LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121915\
Data File : BG020330.D
Acq On : 20 Dec 2015 2:54
Operator : UM/SJ
Sample : G4866-15
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : E43M5

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	3.149	50	53	57	rVV2	11509	16445	0.69%	0.059%
2	3.196	57	61	66	rVV	24209	35415	1.48%	0.126%
3	4.001	194	198	206	rVB	10467	14782	0.62%	0.053%
4	7.238	741	749	759	rBV	88551	155697	6.50%	0.555%
5	7.408	772	778	788	rBB	66139	106293	4.44%	0.379%
6	7.620	807	814	820	rBV	87574	148118	6.18%	0.528%
7	8.090	887	894	902	rBB	83000	134452	5.61%	0.479%
8	8.789	1006	1013	1023	rBB	110518	186372	7.78%	0.665%
9	9.253	1086	1092	1100	rBB	84560	148507	6.20%	0.530%
10	9.982	1209	1216	1226	rVB	78774	134161	5.60%	0.478%
11	10.522	1301	1308	1316	rBV	122029	210847	8.80%	0.752%
12	10.904	1366	1373	1379	rBV	115416	205787	8.59%	0.734%
13	10.957	1379	1382	1389	rVB	9149	13252	0.55%	0.047%
14	11.039	1389	1396	1408	rBV	74115	134575	5.62%	0.480%
15	14.118	1911	1920	1925	rBV	219153	318541	13.30%	1.136%
16	14.165	1925	1928	1934	rVB	82704	109216	4.56%	0.389%
17	14.418	1964	1971	1982	rBV	245043	390866	16.32%	1.394%
18	14.723	2014	2023	2030	rBV2	197232	311749	13.02%	1.112%
19	14.788	2030	2034	2040	rVB2	20044	29824	1.25%	0.106%
20	14.911	2049	2055	2064	rBV	79131	133584	5.58%	0.476%
21	15.117	2083	2090	2099	rVB	20515	32231	1.35%	0.115%
22	15.710	2185	2191	2197	rBV	315645	481066	20.09%	1.715%
23	15.763	2197	2200	2205	rVV	46354	66494	2.78%	0.237%
24	15.822	2205	2210	2219	rVB	79878	117943	4.92%	0.421%
25	16.410	2303	2310	2313	rBV2	12696	20876	0.87%	0.074%
26	16.439	2313	2315	2321	rVB3	11307	12905	0.54%	0.046%
27	16.768	2362	2371	2375	rBV5	7508	18137	0.76%	0.065%
28	17.121	2425	2431	2438	rBV	15306	23471	0.98%	0.084%
29	17.197	2438	2444	2449	rBV3	11145	17679	0.74%	0.063%
30	17.285	2455	2459	2466	rVB	28275	41198	1.72%	0.147%
31	17.467	2484	2490	2493	rBV	240567	373972	15.61%	1.333%
32	17.508	2493	2497	2502	rVV	640114	988392	41.27%	3.524%
33	17.567	2502	2507	2510	rVV	345611	524375	21.89%	1.870%
34	17.602	2510	2513	2518	rVV	148069	205804	8.59%	0.734%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121915\
Data File : BG020330.D
Acq On : 20 Dec 2015 2:54
Operator : UM/SJ
Sample : G4866-15
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : E43M5

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	17.655	2518	2522	2527	rVB	10550	17814	0.74%	0.064%
36	17.867	2549	2558	2566	rBV	68017	112667	4.70%	0.402%
37	17.978	2573	2577	2582	rVV	11079	14987	0.63%	0.053%
38	18.337	2633	2638	2642	rBV	80725	114392	4.78%	0.408%
39	18.390	2642	2647	2654	rVB	73916	110812	4.63%	0.395%
40	18.466	2654	2660	2665	rVB	24790	38879	1.62%	0.139%
41	18.537	2666	2672	2676	rBV2	126146	219658	9.17%	0.783%
42	18.636	2685	2689	2693	rBV5	7846	13334	0.56%	0.048%
43	18.836	2717	2723	2726	rBV	55063	80701	3.37%	0.288%
44	18.877	2726	2730	2738	rVB2	72964	105480	4.40%	0.376%
45	19.077	2760	2764	2768	rVV2	10972	16072	0.67%	0.057%
46	19.124	2770	2772	2776	rVV2	10689	15583	0.65%	0.056%
47	19.165	2776	2779	2782	rVV2	10885	13539	0.57%	0.048%
48	19.253	2788	2794	2799	rBV3	34813	66476	2.78%	0.237%
49	19.312	2799	2804	2807	rVV4	15108	31421	1.31%	0.112%
50	19.394	2813	2818	2825	rBV	43421	75278	3.14%	0.268%
51	19.524	2832	2840	2845	rBV	1610281	2394977	100.00%	8.540%
52	19.606	2850	2854	2860	rVB	43261	61765	2.58%	0.220%
53	19.659	2860	2863	2866	rBV3	14421	22496	0.94%	0.080%
54	19.700	2867	2870	2873	rVV3	18402	29193	1.22%	0.104%
55	19.759	2873	2880	2888	rVB2	51677	118515	4.95%	0.423%
56	19.847	2889	2895	2898	rBV2	558550	992494	41.44%	3.539%
57	19.882	2898	2901	2907	rVV	1300310	1765068	73.70%	6.294%
58	19.941	2907	2911	2918	rVB2	42711	72120	3.01%	0.257%
59	20.052	2924	2930	2935	rBV	64283	97194	4.06%	0.347%
60	20.117	2935	2941	2946	rVB	67086	101816	4.25%	0.363%
61	20.188	2949	2953	2960	rBV3	65831	162926	6.80%	0.581%
62	20.252	2960	2964	2969	rVV2	40705	66409	2.77%	0.237%
63	20.334	2970	2978	2979	rVV5	55346	120478	5.03%	0.430%
64	20.364	2979	2983	2988	rVB	196303	285990	11.94%	1.020%
65	20.464	2995	3000	3004	rBV	170539	231996	9.69%	0.827%
66	20.522	3004	3010	3014	rVV2	83973	142486	5.95%	0.508%
67	20.564	3014	3017	3020	rVB	17319	19313	0.81%	0.069%
68	20.599	3020	3023	3029	rBV2	16940	26056	1.09%	0.093%
69	20.663	3030	3034	3037	rBV	49239	65901	2.75%	0.235%
70	20.705	3038	3041	3045	rVV	39969	52183	2.18%	0.186%
71	20.957	3080	3084	3087	rBV5	30224	41440	1.73%	0.148%

LSC Area Percent Report

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Data File : BG020330.D
Acq On : 20 Dec 2015 2:54
Operator : UM/SJ
Sample : G4866-15
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : E43M5

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	21.081	3101	3105	3108	rBV4	29842	47319	1.98%	0.169%
73	21.128	3109	3113	3120	rVB	69573	122309	5.11%	0.436%
74	21.316	3137	3145	3149	rBV2	143574	274403	11.46%	0.978%
75	21.363	3149	3153	3157	rVV	129100	211208	8.82%	0.753%
76	21.410	3157	3161	3166	rVV2	136376	249230	10.41%	0.889%
77	21.468	3166	3171	3176	rVB2	79516	146316	6.11%	0.522%
78	21.598	3188	3193	3199	rVB	40309	82144	3.43%	0.293%
79	21.686	3205	3208	3209	rBV	37201	39801	1.66%	0.142%
80	21.727	3209	3215	3222	rVV3	825524	2012414	84.03%	7.175%
81	21.797	3222	3227	3238	rVB	725804	1312156	54.79%	4.679%
82	21.891	3240	3243	3247	rBV5	15165	24781	1.03%	0.088%
83	21.944	3247	3252	3258	rBV	132628	227702	9.51%	0.812%
84	22.009	3259	3263	3269	rBV2	42999	78662	3.28%	0.280%
85	22.156	3282	3288	3294	rVB2	108663	216466	9.04%	0.772%
86	22.226	3296	3300	3304	rBV5	18718	35266	1.47%	0.126%
87	22.696	3378	3380	3386	rVB2	38942	55373	2.31%	0.197%
88	22.761	3387	3391	3395	rVV	60133	107101	4.47%	0.382%
89	22.808	3396	3399	3407	rVB3	68948	127403	5.32%	0.454%
90	22.896	3410	3414	3421	rBV4	34371	72320	3.02%	0.258%
91	23.989	3589	3600	3607	rBV	613316	2057819	85.92%	7.337%
92	24.242	3636	3643	3652	rVB	118160	283322	11.83%	1.010%
93	24.441	3673	3677	3679	rBV5	30864	46907	1.96%	0.167%
94	24.729	3716	3726	3733	rBV	346375	1061896	44.34%	3.786%
95	24.800	3733	3738	3744	rVV	226980	620008	25.89%	2.211%
96	24.882	3744	3752	3762	rVB	546428	1527182	63.77%	5.445%
97	25.023	3767	3776	3783	rBV	176891	530293	22.14%	1.891%
98	25.105	3783	3790	3802	rVB	187410	578262	24.14%	2.062%
99	28.777	4402	4415	4439	rVB3	248973	1288005	53.78%	4.593%
100	29.947	4601	4614	4628	rBV	172088	828702	34.60%	2.955%

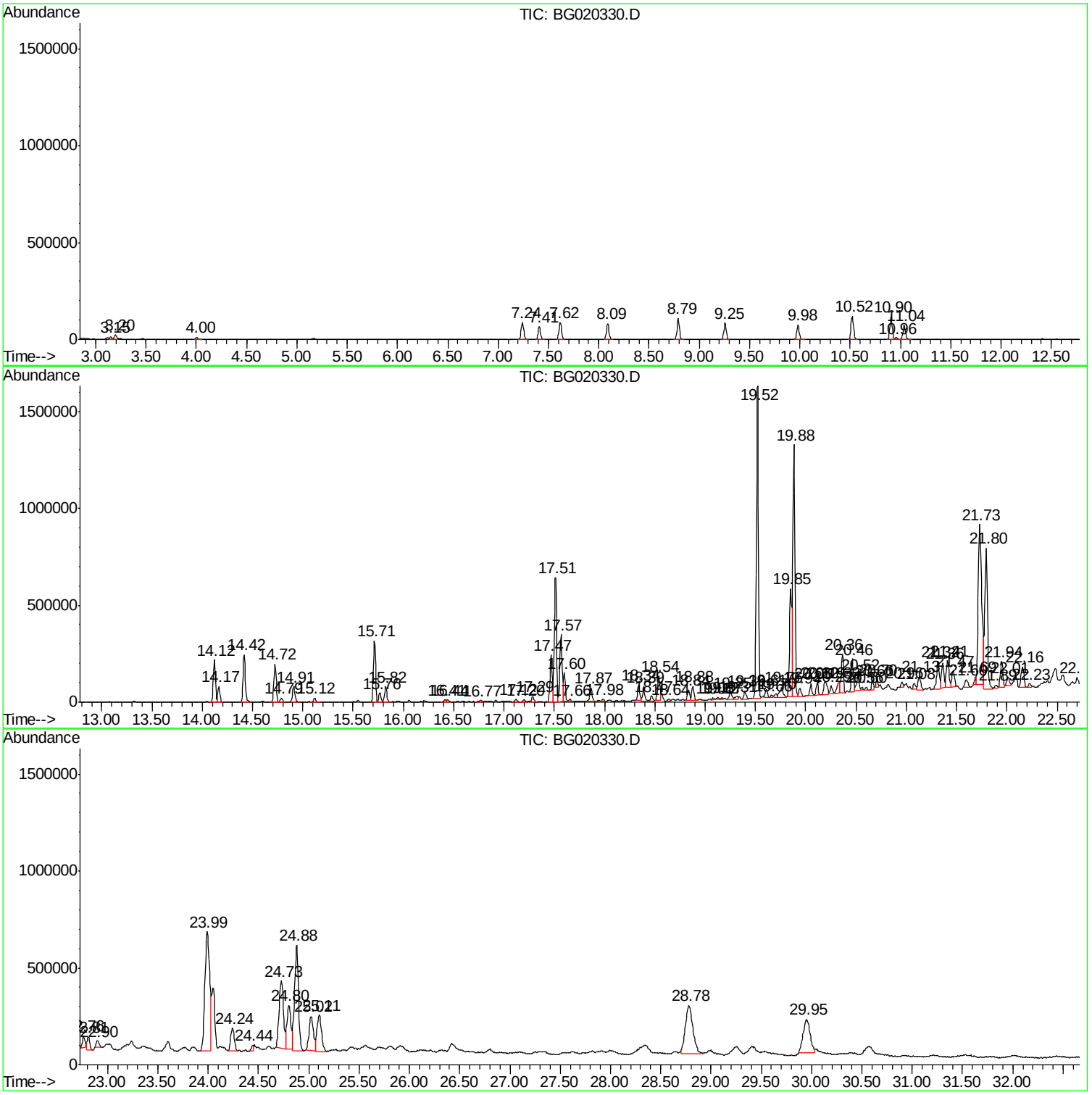
Sum of corrected areas: 28045705

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121915\
Data File : BG020330.D
Acq On : 20 Dec 2015 2:54
Operator : UM/SJ
Sample : G4866-15
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : E43M5

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\BG121915\
Data File : BG020330.D
Acq On : 20 Dec 2015 2:54
Operator : UM/SJ
Sample : G4866-15
Misc :
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Instrument : BNA_G
ClientSampleId : E43M5

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

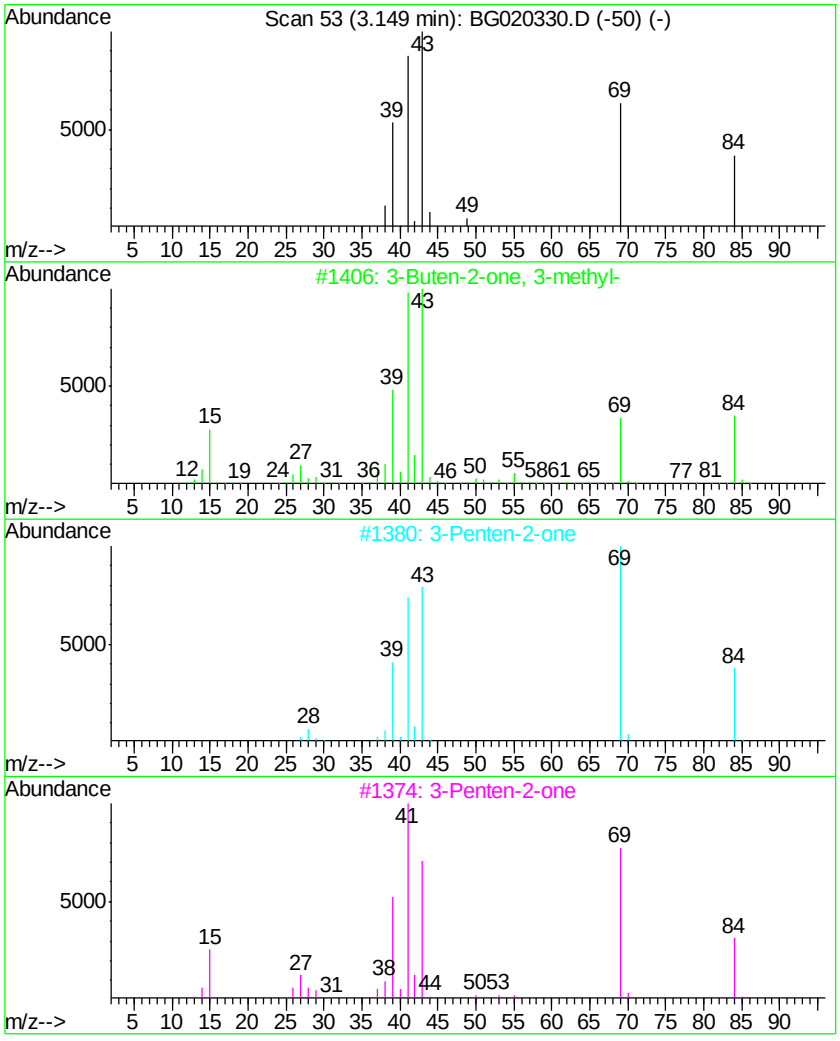
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

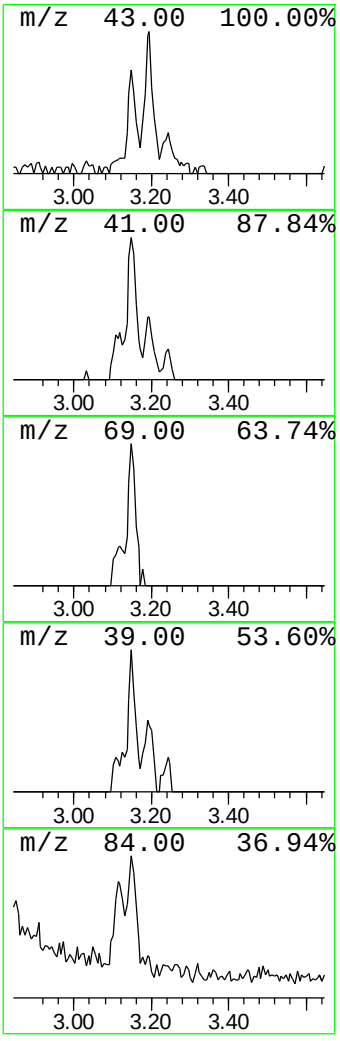
****

Peak Number 1 3-Buten-2-one, 3-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.15	2.45 ng/ul	16445	1,4-Dichlorobenzene-d4	8.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Buten-2-one, 3-methyl-	84	C5H8O	000814-78-8	78
2	3-Penten-2-one	84	C5H8O	000625-33-2	74
3	3-Penten-2-one	84	C5H8O	000625-33-2	72
4	3-Buten-2-one, 3-methyl-	84	C5H8O	000814-78-8	50
5	2-Pentene, 2-methyl-	84	C6H12	000625-27-4	9





Data Path : Z:\HPCHEM1\BNA G\DATA\BG121915\
Data File : BG020330.D
Acq On : 20 Dec 2015 2:54
Operator : UM/SJ
Sample : G4866-15
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : E43M5

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

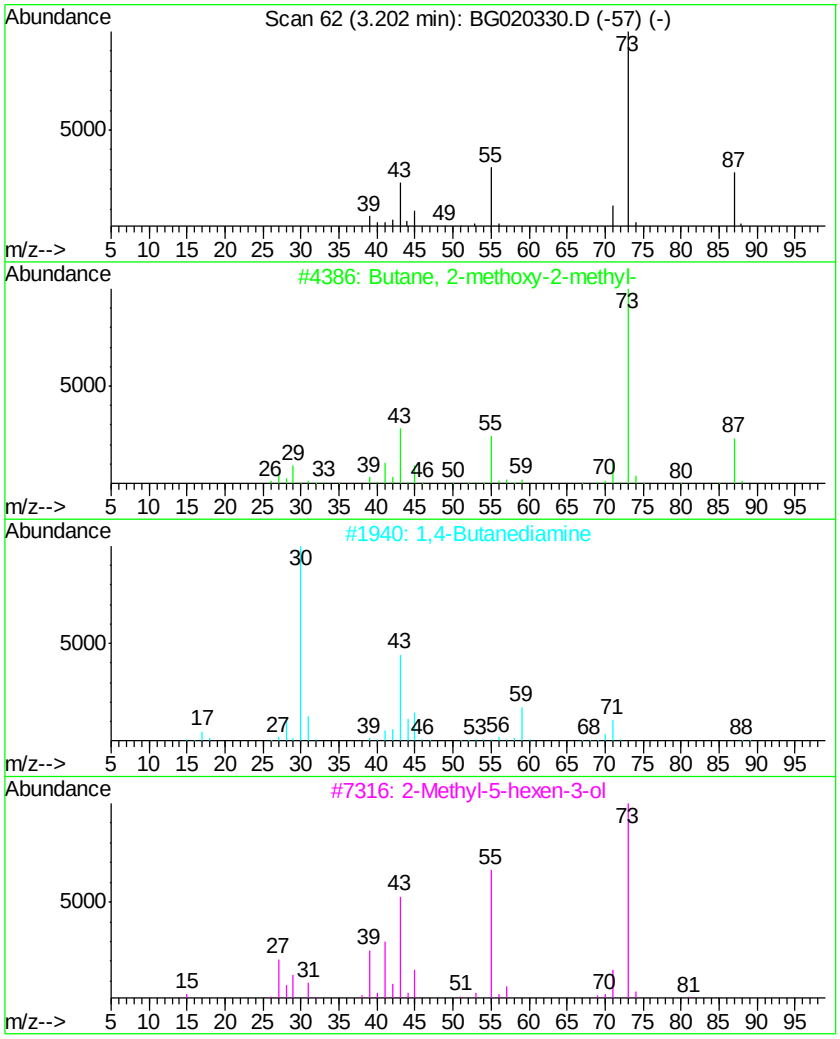
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

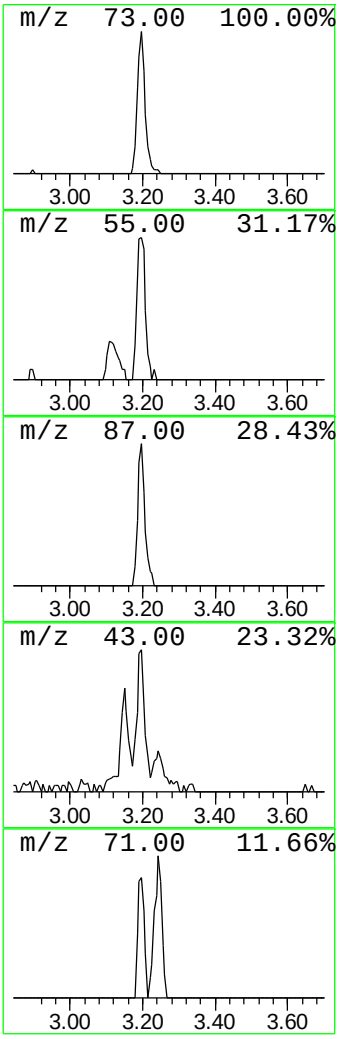
****

Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.20	5.27 ng/ul	35415	1,4-Dichlorobenzene-d4	8.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	1,4-Butanediamine	88	C4H12N2	000110-60-1	9
3	2-Methyl-5-hexen-3-ol	114	C7H14O	032815-70-6	9
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	9
5	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	9





Data Path : Z:\HPCHEM1\BNA G\DATA\BG121915\
Data File : BG020330.D
Acq On : 20 Dec 2015 2:54
Operator : UM/SJ
Sample : G4866-15
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : E43M5

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

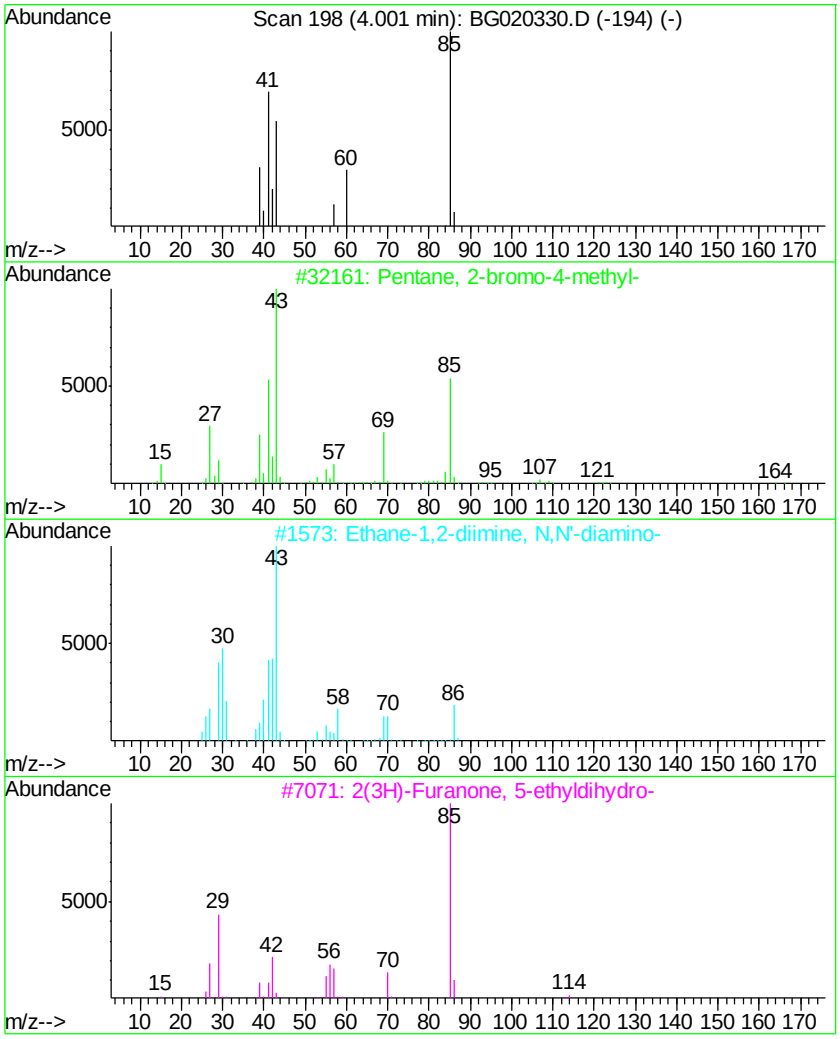
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

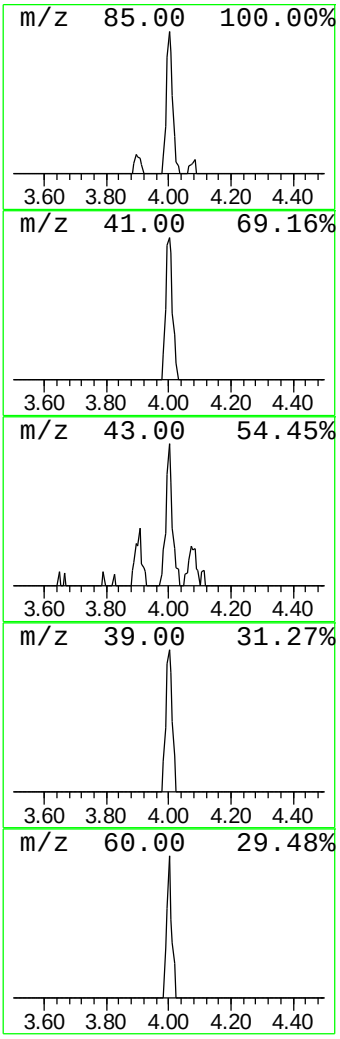
****

Peak Number 3 unknown-01 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.00	2.20 ng/ul	14782	1,4-Dichlorobenzene-d4	8.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane, 2-bromo-4-methyl-	164	C6H13Br	030310-22-6	39
2	Ethane-1,2-diimine, N,N'-diamino-	86	C2H6N4	1000197-11-5	9
3	2(3H)-Furanone, 5-ethyldihydro-	114	C6H10O2	000695-06-7	9
4	Formic acid, 2-methylpropyl ester	102	C5H10O2	000542-55-2	9
5	Oxirane, (2-methylpropyl)-	100	C6H12O	023850-78-4	9





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121915\
Data File : BG020330.D
Acq On : 20 Dec 2015 2:54
Operator : UM/SJ
Sample : G4866-15
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : E43M5

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

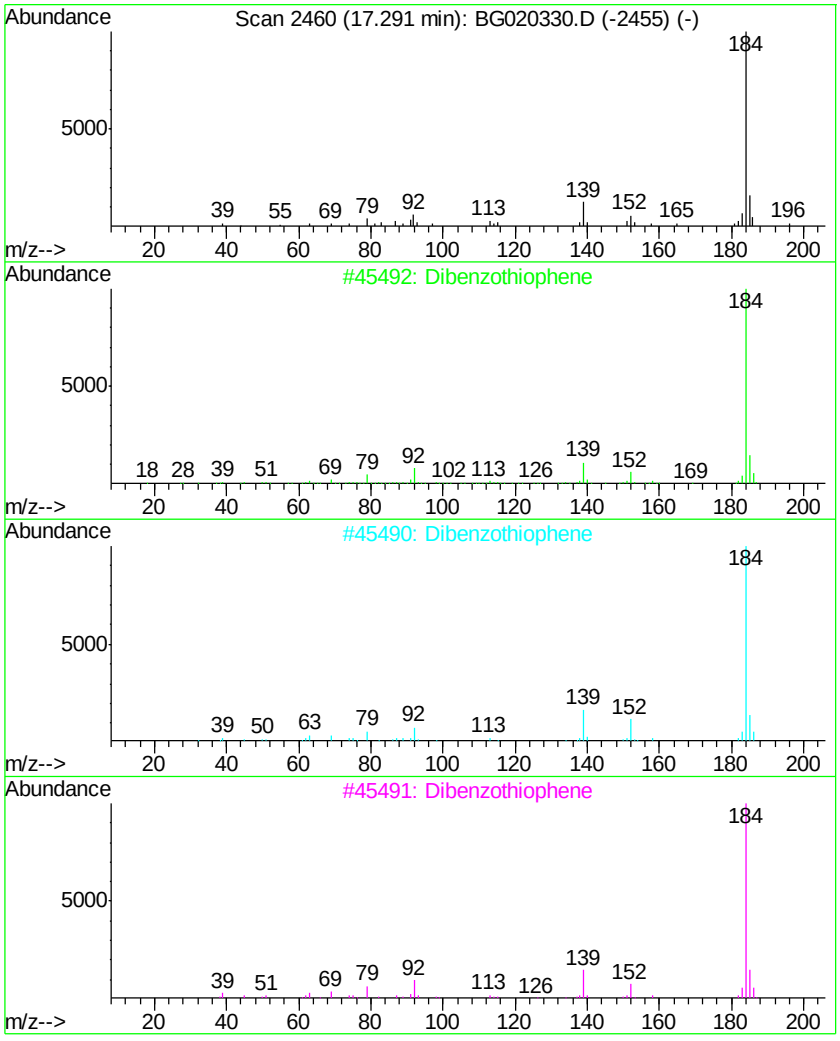
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

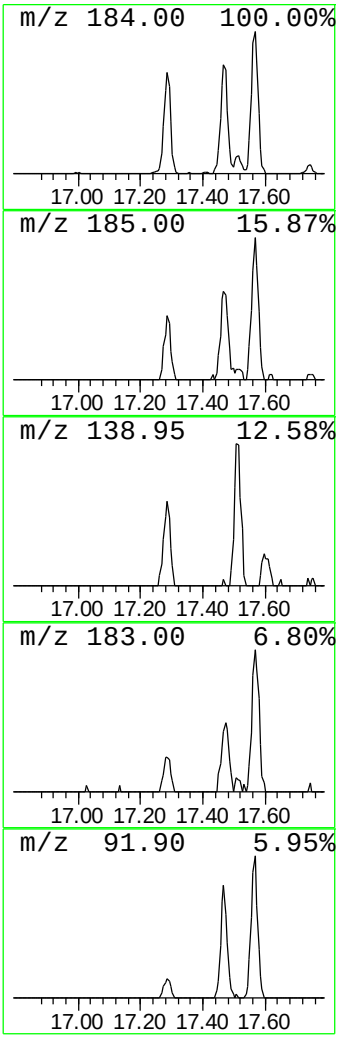
****

Peak Number 4 Dibenzothiophene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.29	2.20 ng/ul	41198	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	95
2	Dibenzothiophene	184	C12H8S	000132-65-0	94
3	Dibenzothiophene	184	C12H8S	000132-65-0	93
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
5	Dibenzothiophene	184	C12H8S	000132-65-0	91





Data Path : Z:\HPCHEM1\BNA G\DATA\BG121915\
Data File : BG020330.D
Acq On : 20 Dec 2015 2:54
Operator : UM/SJ
Sample : G4866-15
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : E43M5

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

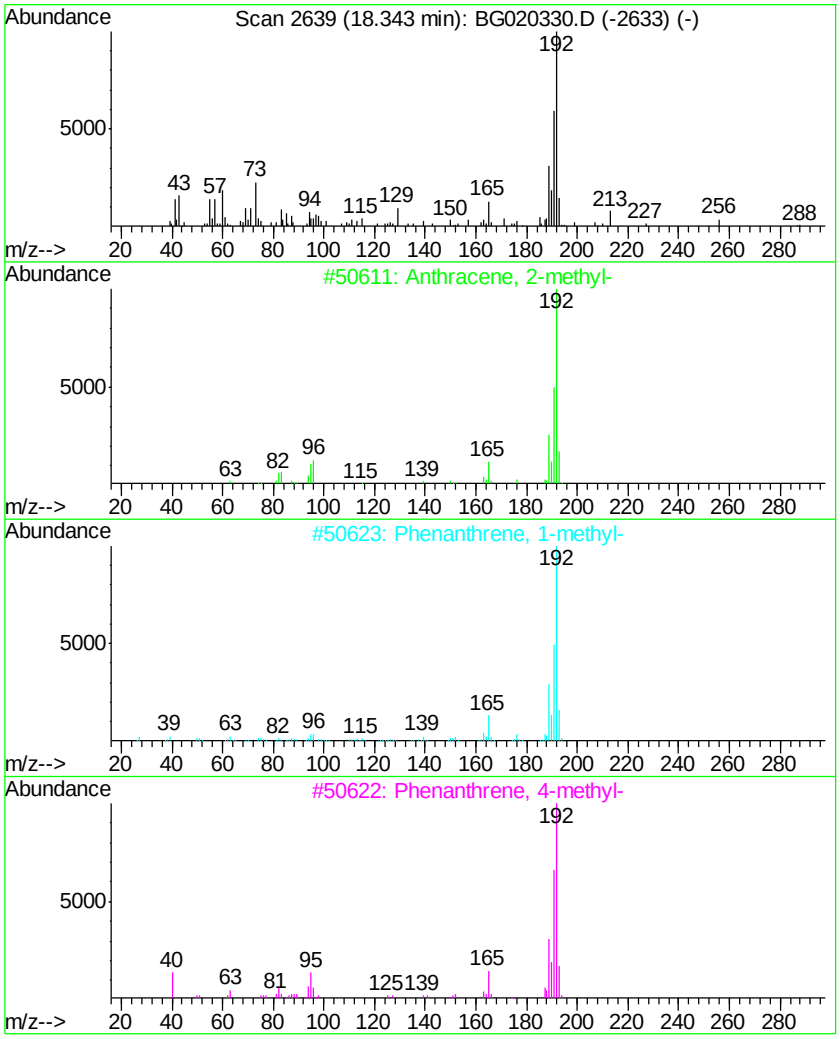
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

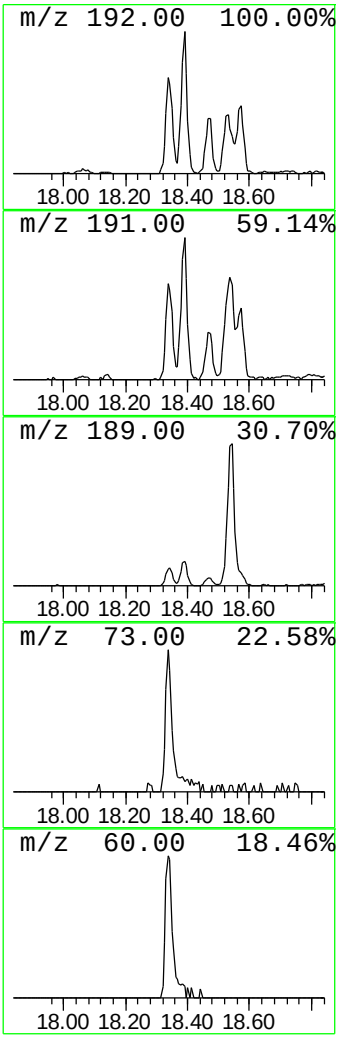
****

Peak Number 5 Anthracene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.34	6.12 ng/ul	114392	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	86
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	83
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	83
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	70
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	70





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121915\
Data File : BG020330.D
Acq On : 20 Dec 2015 2:54
Operator : UM/SJ
Sample : G4866-15
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : E43M5

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

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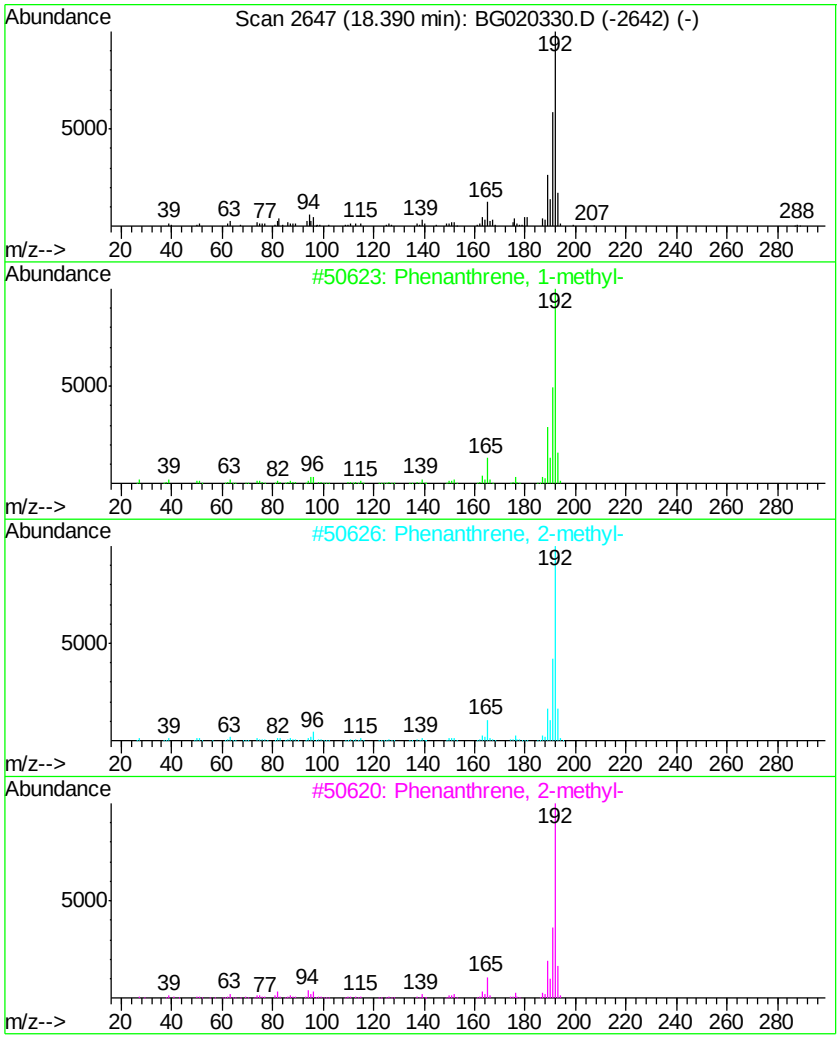
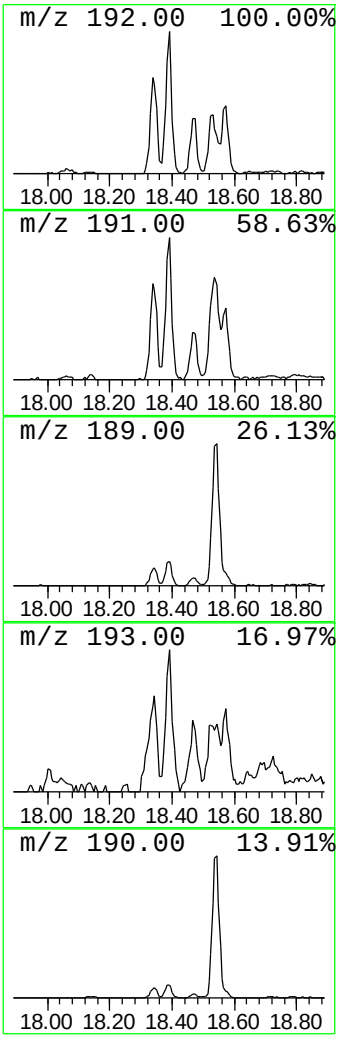
Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.39	5.93 ng/ul	110812	Phenanthrene-d10	17.47

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	97
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95





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Instrument : BNA_G
ClientSampleId : E43M5

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Quant Title : SVOA CALIBRATION

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

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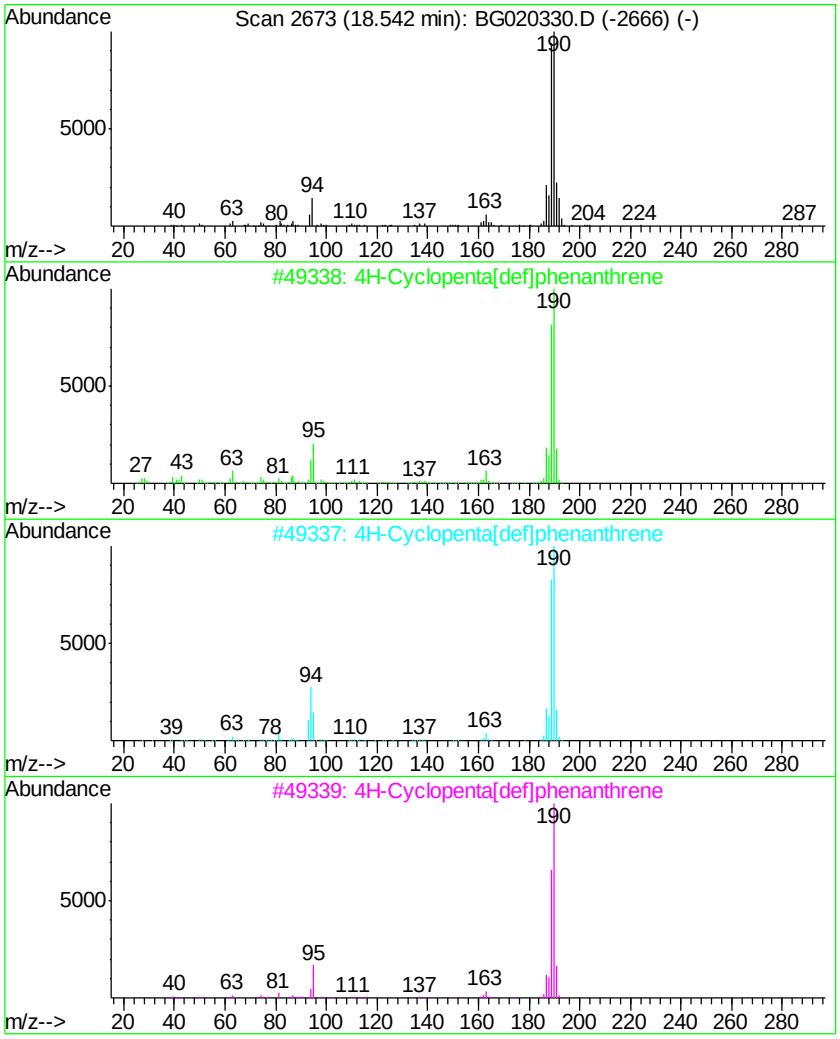
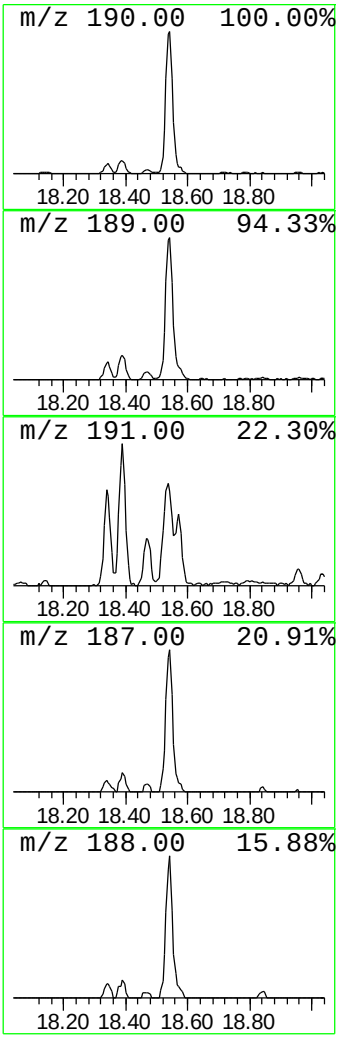
Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.54	11.75 ng/ul	219658	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	83
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	83
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	83
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	56
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	53





Library Search Compound Report

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Data File : BG020330.D
Acq On : 20 Dec 2015 2:54
Operator : UM/SJ
Sample : G4866-15
Misc :
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Instrument : BNA_G
ClientSampleId : E43M5

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Quant Title : SVOA CALIBRATION

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

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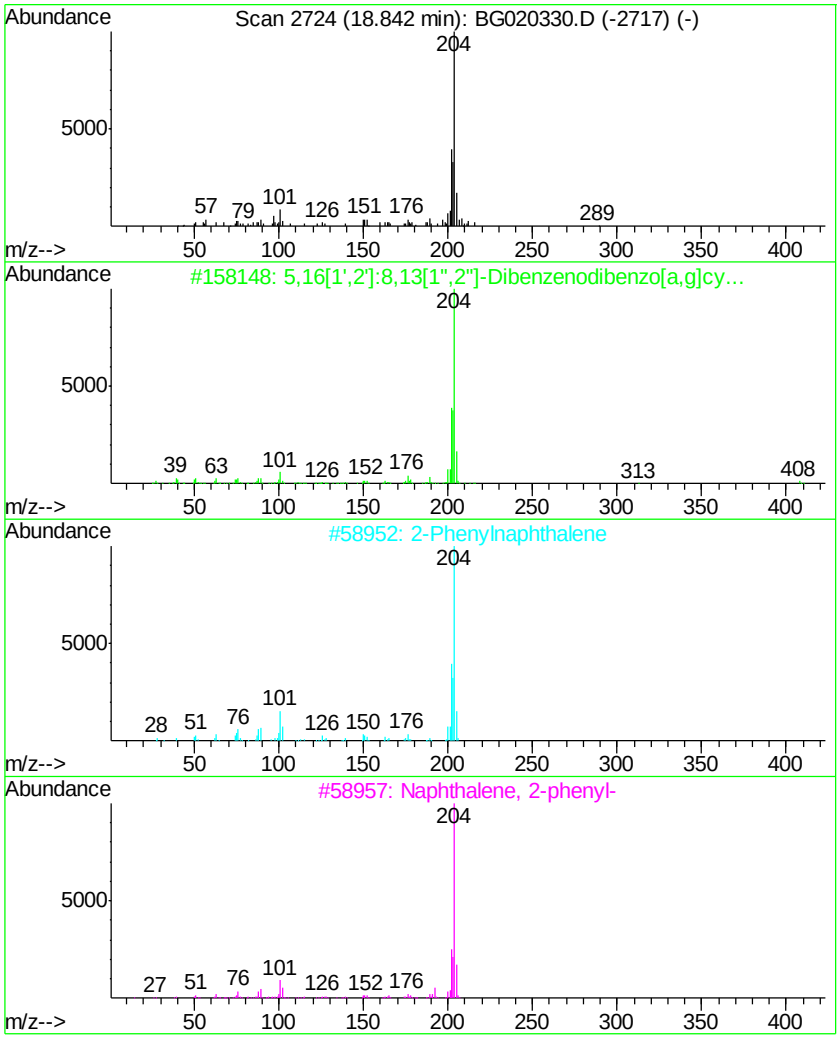
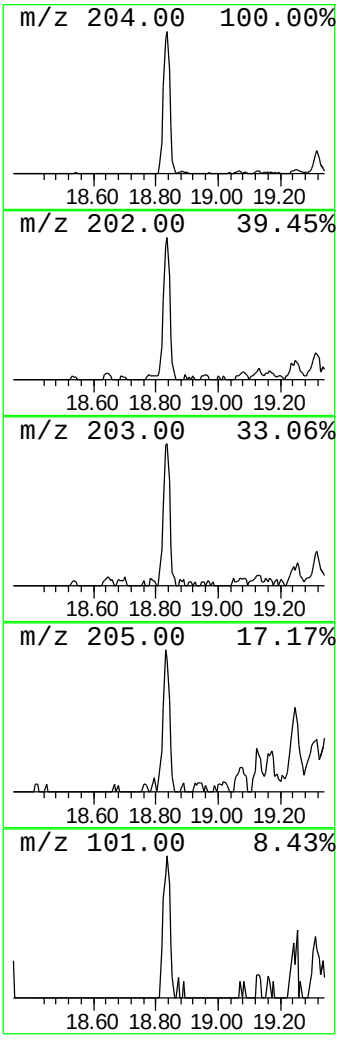
Peak Number 9 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.84	4.32 ng/ul	80701	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
2	2-Phenylnaphthalene	204	C16H12	035465-71-5	83
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	64
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	60





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Instrument : BNA_G
ClientSampleId : E43M5

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Quant Title : SVOA CALIBRATION

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TIC Integration Parameters: LSCINT.P

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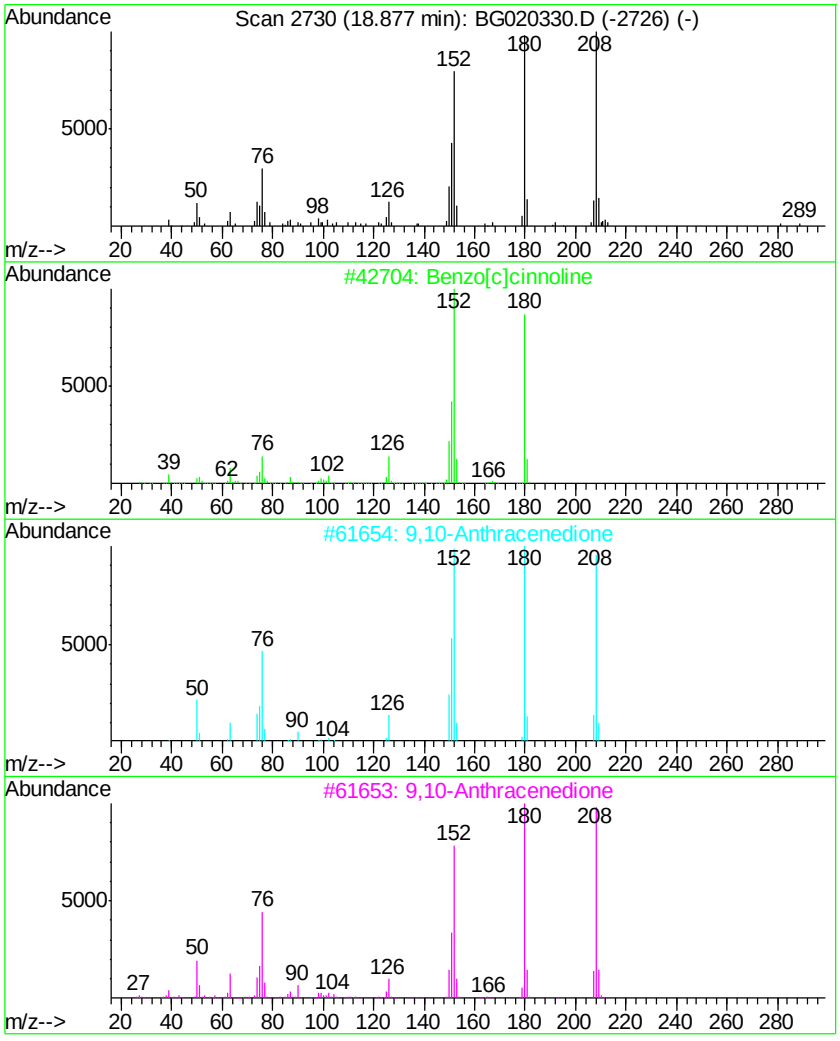
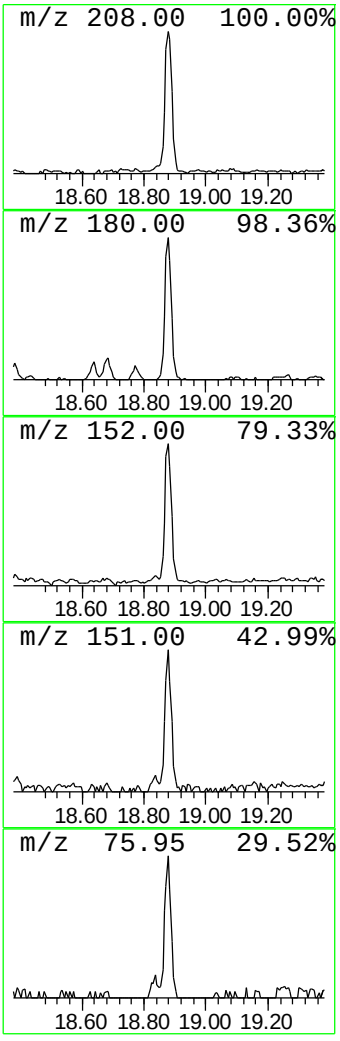
Peak Number 10 Benzo[c]cinnoline Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.88	5.64 ng/ul	105480	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	96
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	96
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	95
4	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
5	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	86





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Sample : G4866-15
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : E43M5

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Quant Title : SVOA CALIBRATION

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

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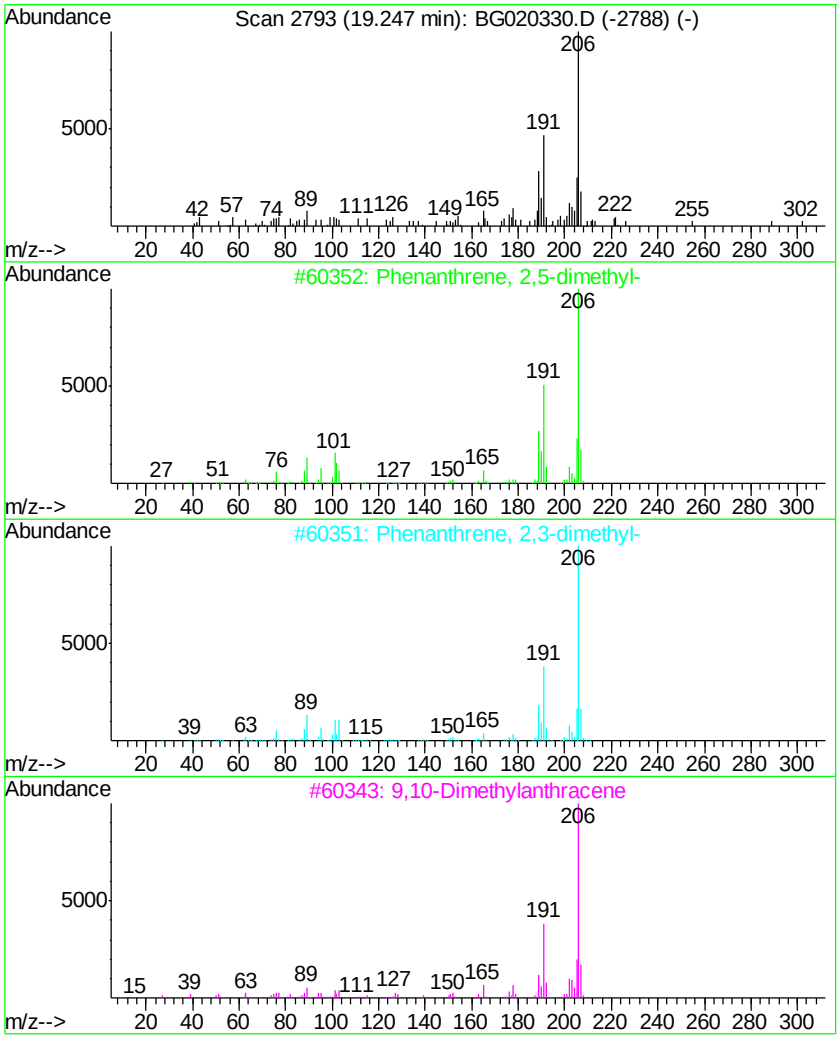
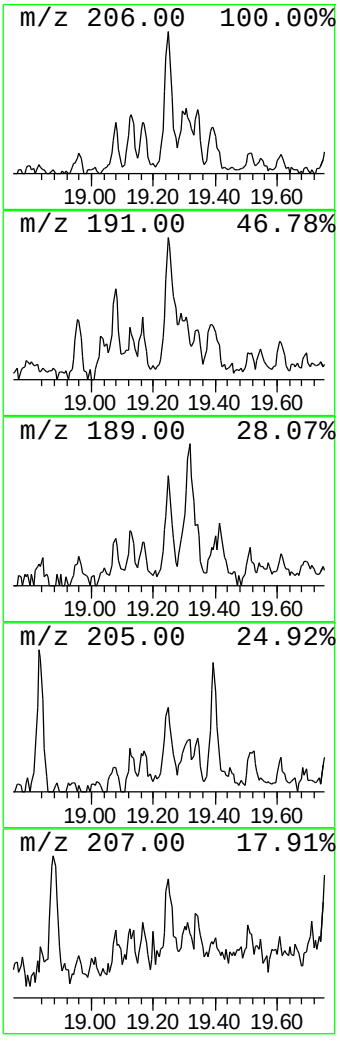
Peak Number 11 Phenanthrene, 2,5-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.25	3.56 ng/ul	66476	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	90
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	81
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	76
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	70
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	70





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ClientSampleId : E43M5

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Quant Title : SVOA CALIBRATION

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

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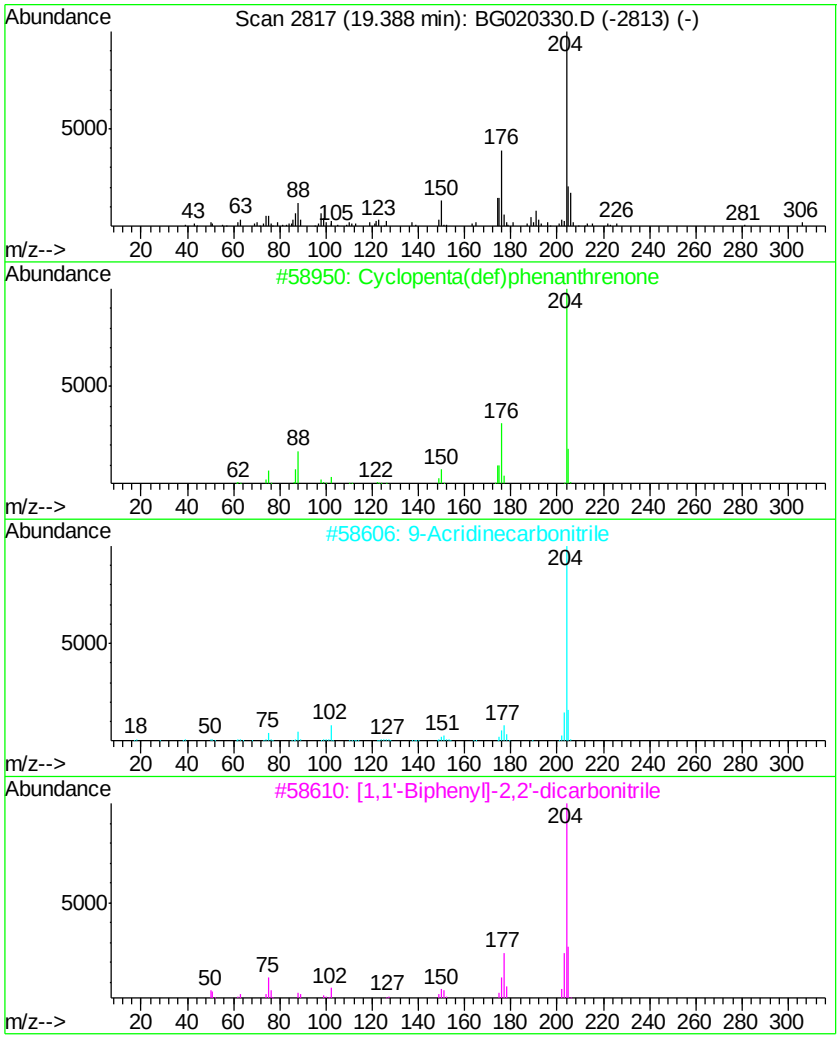
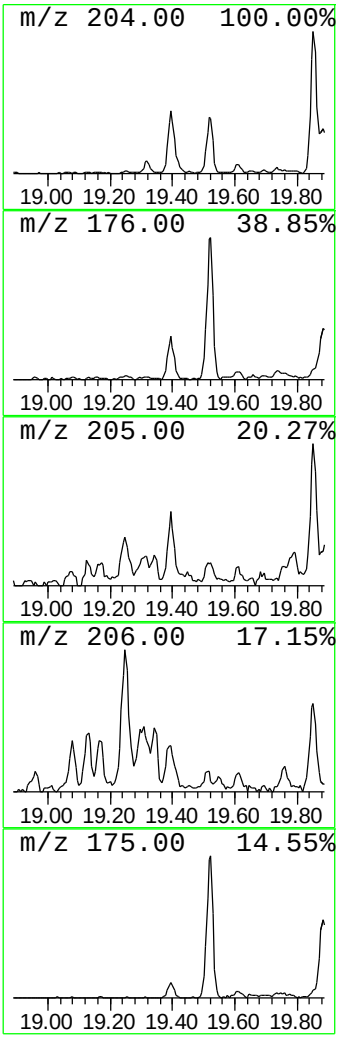
Peak Number 12 Cyclopenta(def)phenanthrenone Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.39	4.03 ng/ul	75278	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	91
2	9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	53
3	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	50
4	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	46
5	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	42





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Instrument : BNA_G
ClientSampleId : E43M5

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Quant Title : SVOA CALIBRATION

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

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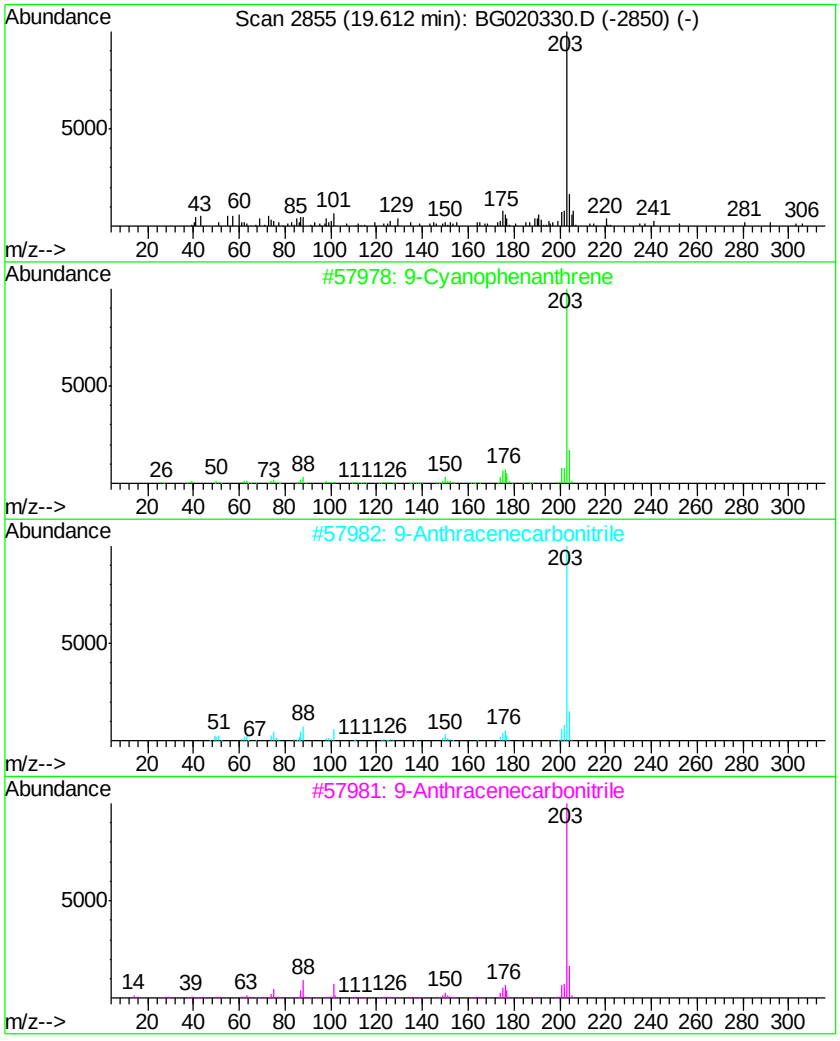
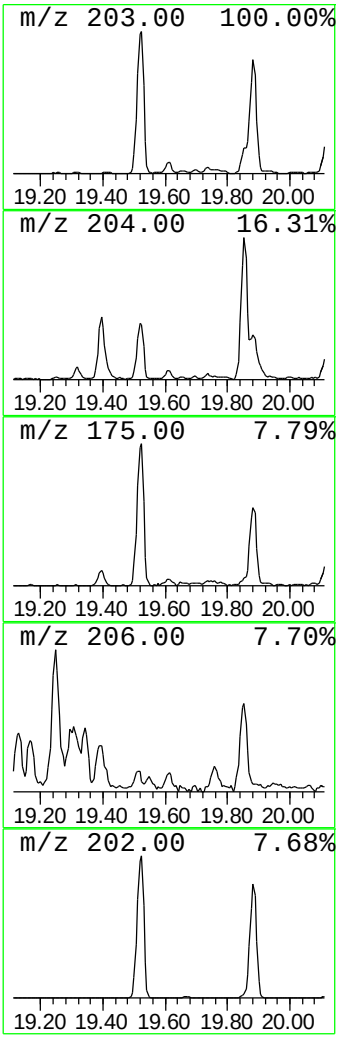
Peak Number 13 9-Cyanophenanthrene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.61	3.30 ng/ul	61765	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Cyanophenanthrene	203	C15H9N	002510-55-6	92
2	9-Anthracenecarbonitrile	203	C15H9N	001210-12-4	64
3	9-Anthracenecarbonitrile	203	C15H9N	001210-12-4	64
4	Indeno(1,2,3-ij)isoquinoline	203	C15H9N	000206-56-4	64
5	9-Cyanophenanthrene	203	C15H9N	002510-55-6	58





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ClientSampleId : E43M5

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Quant Title : SVOA CALIBRATION

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

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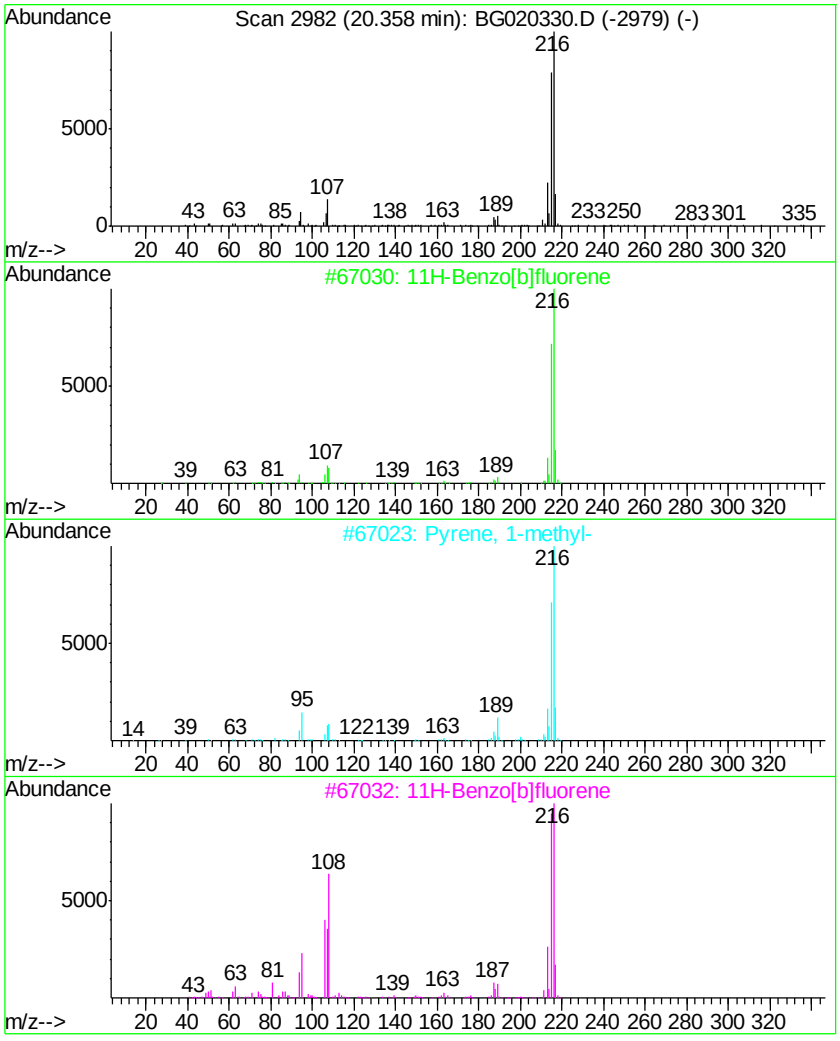
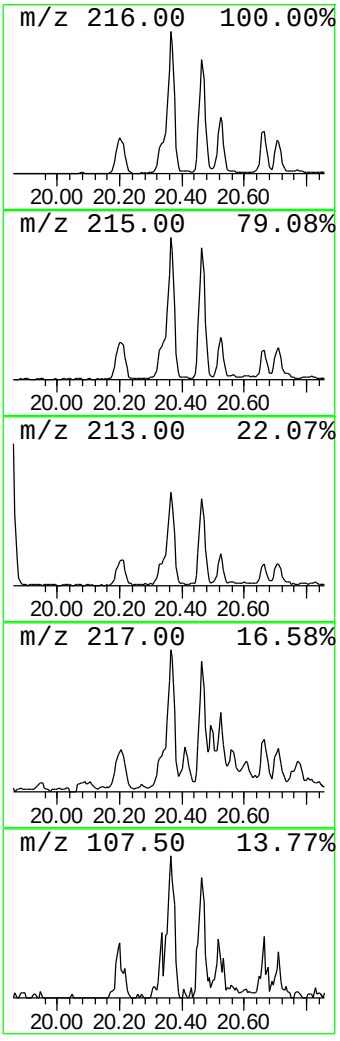
Peak Number 14 11H-Benzo[b]fluorene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.36	2.84 ng/ul	285990	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	80





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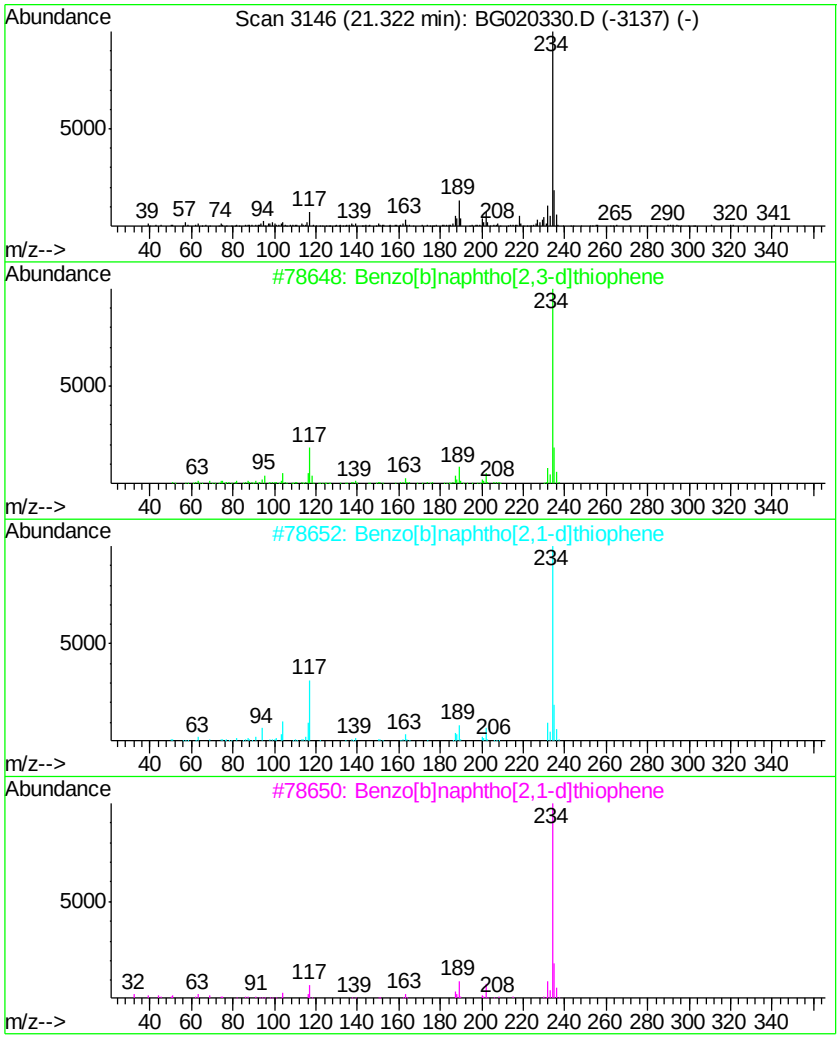
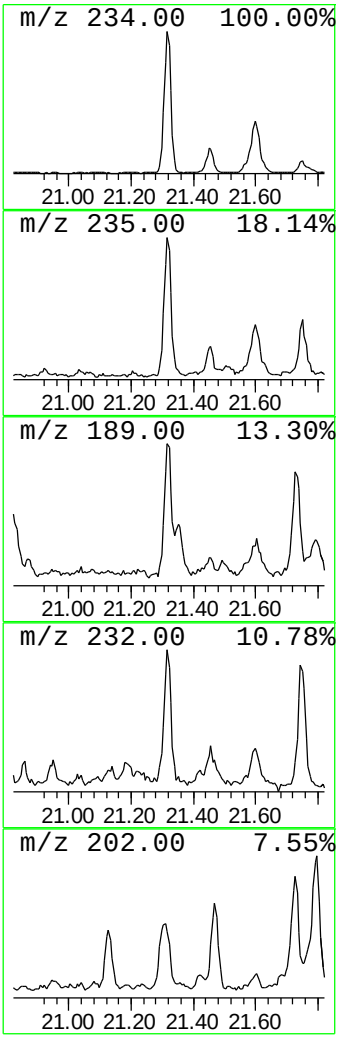
Peak Number 16 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.32	2.73 ng/ul	274403	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	94
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	94
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	94
4	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	94
5	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93





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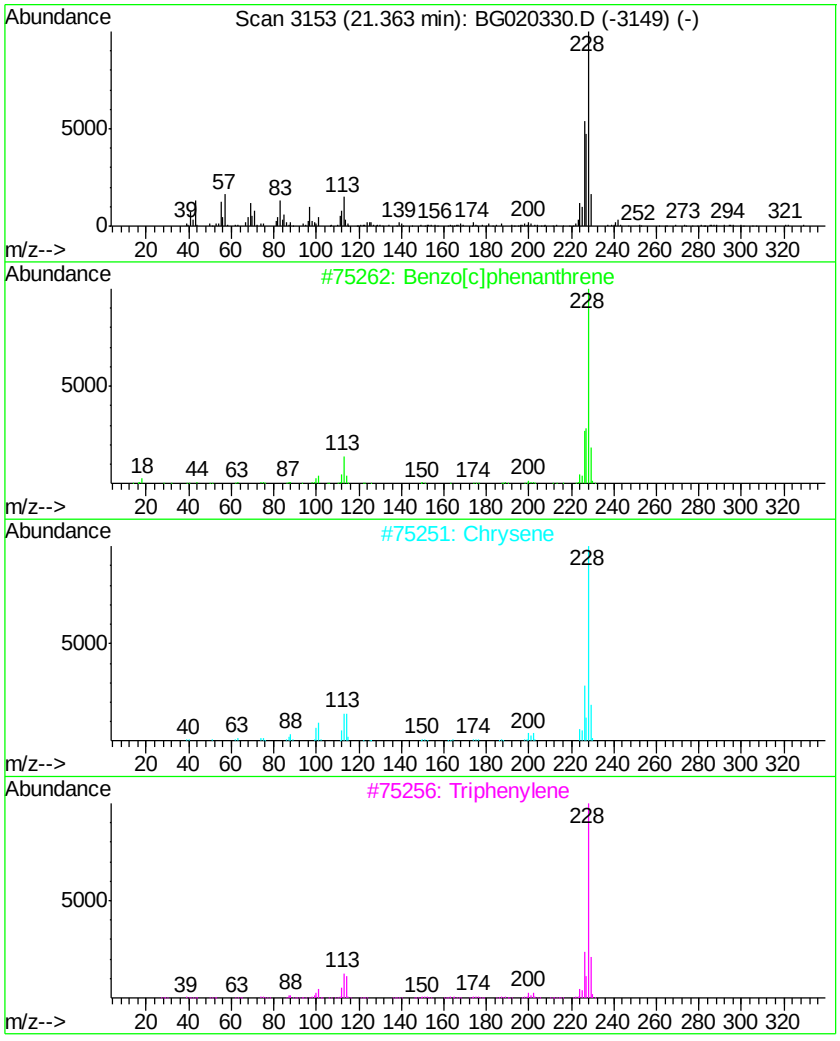
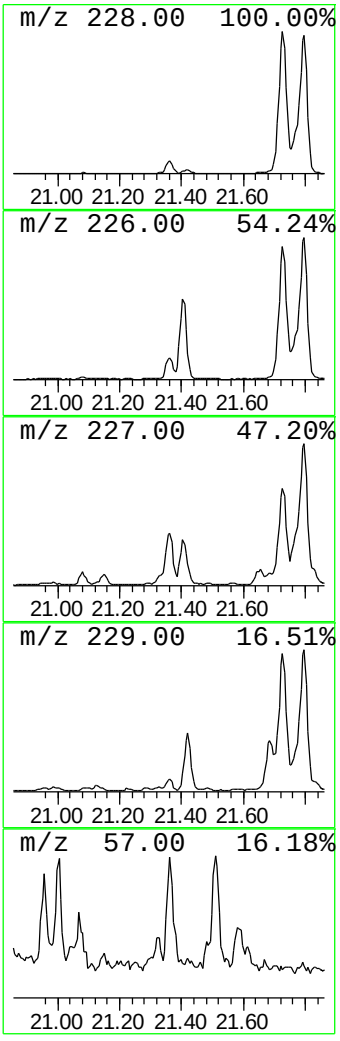
Peak Number 17 Benzo[c]phenanthrene Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.36	2.10 ng/ul	211208	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[c]phenanthrene	228	C18H12	000195-19-7	52
2	Chrysene	228	C18H12	000218-01-9	46
3	Triphenylene	228	C18H12	000217-59-4	43
4	Diphenylvinylphosphine oxide	228	C14H13OP	002096-78-8	43
5	Chrysene	228	C18H12	000218-01-9	43





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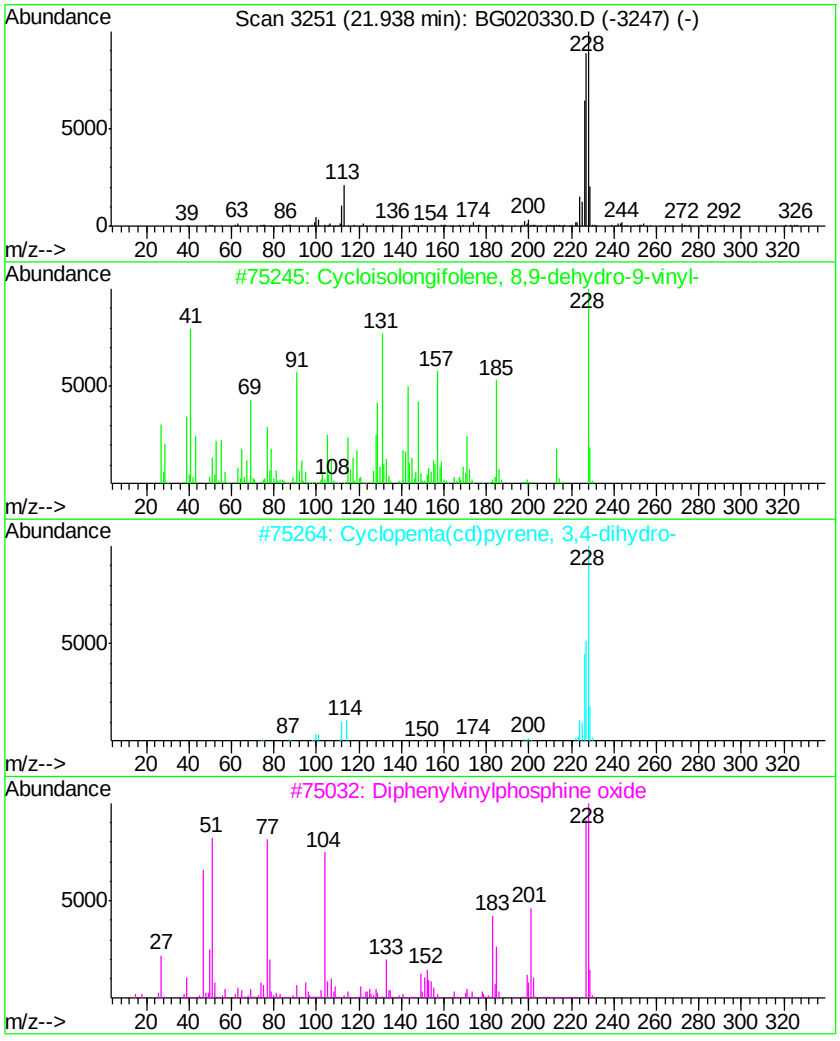
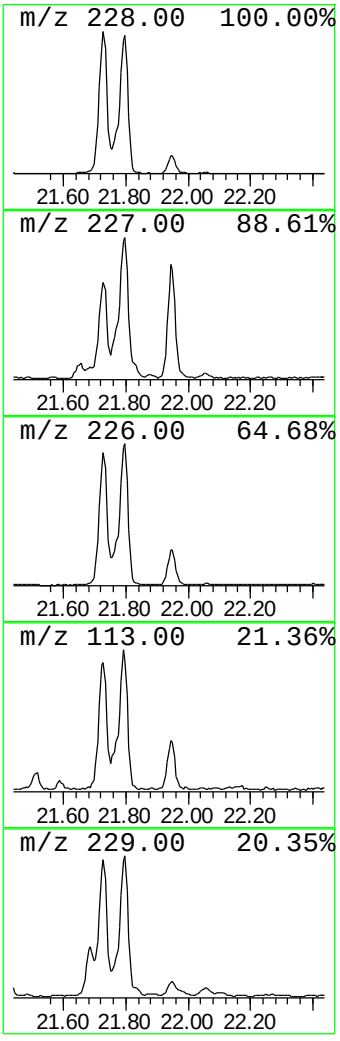
Peak Number 19 Cycloisolongifolene, 8,9-de... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.94	2.26 ng/ul	227702	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cycloisolongifolene, 8,9-dehydro...	228	C17H24	1000151-80-0	91
2	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	70
3	Diphenylvinylphosphine oxide	228	C14H13OP	002096-78-8	50
4	Pyrazole-4-carboxaldehyde-, 3,5-...	228	C14H16N2O	1000272-54-8	50
5	Triphenylene	228	C18H12	000217-59-4	50





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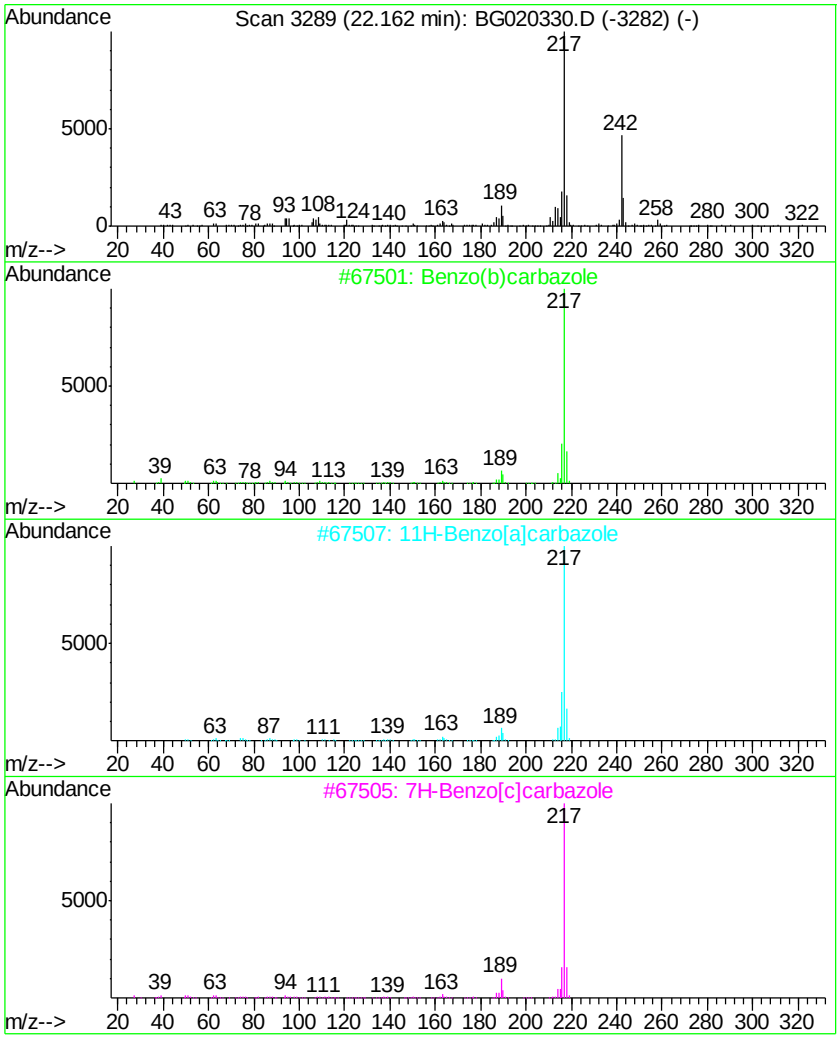
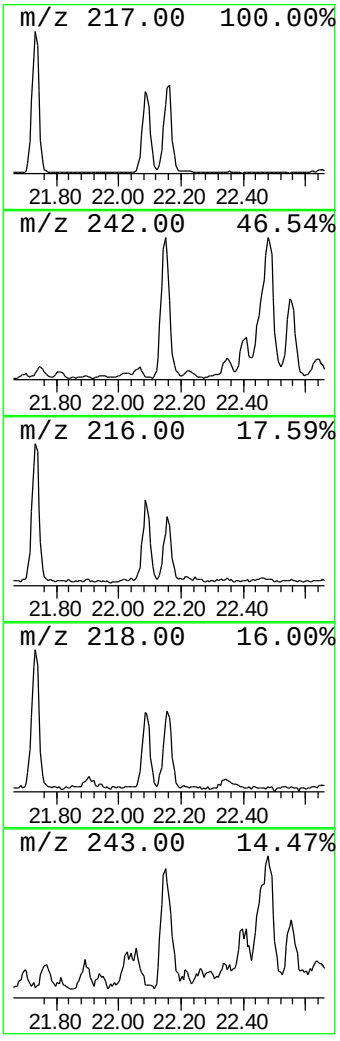
Peak Number 20 Benzo(b)carbazole Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.16	2.15 ng/ul	216466	Chrysene-d12	21.75

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(b)carbazole	217	C16H11N	000243-28-7	70
2	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	55
3	7H-Benzo[c]carbazole	217	C16H11N	000205-25-4	55
4	7H-Benzo[c]carbazole	217	C16H11N	000205-25-4	49
5	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	49





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121915\
Data File : BG020330.D
Acq On : 20 Dec 2015 2:54
Operator : UM/SJ
Sample : G4866-15
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : E43M5

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

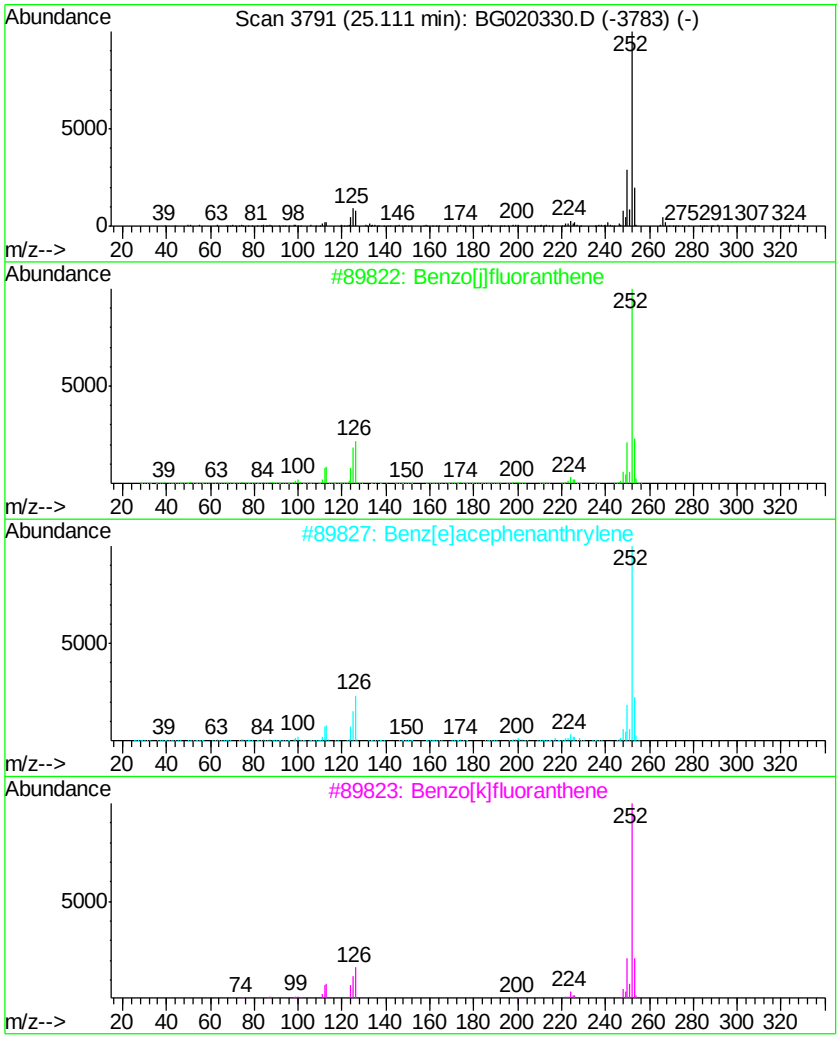
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

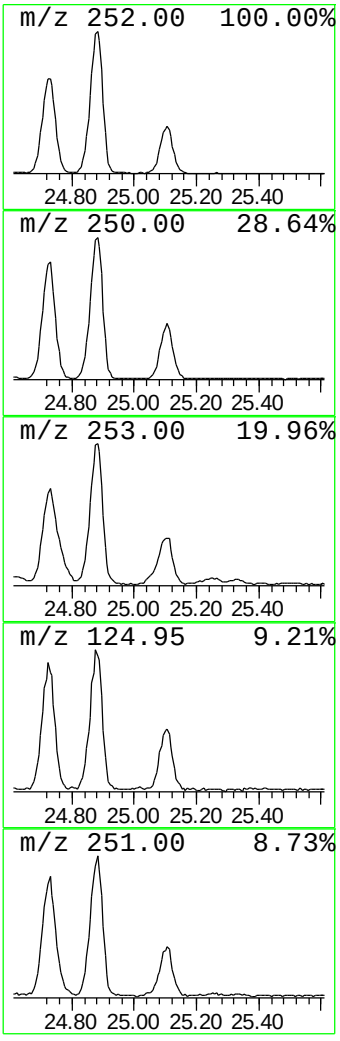
****

Peak Number 23 Benzo[j]fluoranthene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.11	21.81 ng/ul	578262	Perylene-d12	25.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90
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	81
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	81





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121915\
Data File : BG020330.D
Acq On : 20 Dec 2015 2:54
Operator : UM/SJ
Sample : G4866-15
Misc :
ALS Vial : 61 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : E43M5

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
3-Buten-2-one, 3-...	3.15	2.5	ng/ul	16445	1	8.09	134452	20.0
Butane, 2-methoxy...	3.20	5.3	ng/ul	35415	1	8.09	134452	20.0
unknown-01	4.00	2.2	ng/ul	14782	1	8.09	134452	20.0
Dibenzothiophene	17.29	2.2	ng/ul	41198	4	17.47	373972	20.0
Anthracene, 2-met...	18.34	6.1	ng/ul	114392	4	17.47	373972	20.0
Phenanthrene, 1-m...	18.39	5.9	ng/ul	110812	4	17.47	373972	20.0
4H-Cyclopenta[def...	18.54	11.8	ng/ul	219658	4	17.47	373972	20.0
5,16[1',2']:8,13[...	18.84	4.3	ng/ul	80701	4	17.47	373972	20.0
Benzo[c]cinnoline	18.88	5.6	ng/ul	105480	4	17.47	373972	20.0
Phenanthrene, 2,5...	19.25	3.6	ng/ul	66476	4	17.47	373972	20.0
Cyclopenta(def)ph...	19.39	4.0	ng/ul	75278	4	17.47	373972	20.0
9-Cyanophenanthrene	19.61	3.3	ng/ul	61765	4	17.47	373972	20.0
11H-Benzo[b]fluorene	20.36	2.8	ng/ul	285990	5	21.75	2012410	20.0
Benzo[b]naphtho[2...	21.32	2.7	ng/ul	274403	5	21.75	2012410	20.0
Benzo[c]phenanthrene	21.36	2.1	ng/ul	211208	5	21.75	2012410	20.0
Cycloisolongifole...	21.94	2.3	ng/ul	227702	5	21.75	2012410	20.0
Benzo(b)carbazole	22.16	2.1	ng/ul	216466	5	21.75	2012410	20.0
Benzo[j]fluoranthene	25.11	21.8	ng/ul	578262	6	25.02	530293	20.0