LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121915\
Data File : BG020296.D
Acq On : 19 Dec 2015 4:51
Operator : UM/SJ
Sample : G4768-16
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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	3.114	41	47	57	rBV	44518	92725	1.18%	0.208%
2	3.196	57	61	70	rVB	27790	40756	0.52%	0.092%
3	7.409	772	778	786	rBV	56649	90620	1.16%	0.204%
4	7.620	806	814	822	rBB	58918	99303	1.27%	0.223%
5	8.090	887	894	901	rBV	59321	98917	1.26%	0.222%
6	8.466	952	958	965	rBB	36024	58148	0.74%	0.131%
7	8.631	979	986	994	rBV	321300	552050	7.05%	1.241%
8	8.790	1007	1013	1020	rBV2	49506	84679	1.08%	0.190%
9	9.260	1086	1093	1101	rBV	70555	133657	1.71%	0.301%
10	9.577	1135	1147	1153	rBV2	28476	60099	0.77%	0.135%
11	9.982	1209	1216	1225	rBV	63837	112299	1.43%	0.252%
12	10.305	1263	1271	1282	rBV6	23465	72269	0.92%	0.162%
13	10.529	1301	1309	1317	rVB2	99435	191947	2.45%	0.432%
14	10.916	1365	1375	1376	rVV	71717	112861	1.44%	0.254%
15	10.987	1376	1387	1396	rVV	3384881	7832223	100.00%	17.609%
16	11.087	1396	1404	1412	rVB	217564	378149	4.83%	0.850%
17	12.456	1631	1637	1646	rVB	35625	58905	0.75%	0.132%
18	12.562	1646	1655	1662	rBV	1140275	1967428	25.12%	4.423%
19	12.673	1667	1674	1680	rVV	39481	73511	0.94%	0.165%
20	12.779	1680	1692	1701	rVB	793350	1364613	17.42%	3.068%
21	13.560	1816	1825	1833	rVB	469379	713753	9.11%	1.605%
22	13.754	1851	1858	1868	rVB	84144	172136	2.20%	0.387%
23	13.901	1872	1883	1889	rVV3	84170	221948	2.83%	0.499%
24	13.966	1889	1894	1900	rVV2	25496	40479	0.52%	0.091%
25	14.042	1900	1907	1912	rVV	164853	295023	3.77%	0.663%
26	14.095	1912	1916	1918	rVV	99701	147265	1.88%	0.331%
27	14.124	1918	1921	1927	rVV	212658	305727	3.90%	0.687%
28	14.283	1942	1948	1951	rBV	61941	103196	1.32%	0.232%
29	14.424	1964	1972	1974	rBV	227606	416500	5.32%	0.936%
30	14.448	1974	1976	1986	rVB	239142	297451	3.80%	0.669%
31	14.694	2012	2018	2020	rBV	92796	133977	1.71%	0.301%
32	14.730	2020	2024	2028	rVV2	143841	243272	3.11%	0.547%
33	14.800	2028	2036	2041	rVV	2416210	3995779	51.02%	8.984%
34	14.859	2041	2046	2051	rVV	439453	687058	8.77%	1.545%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121915\
Data File : BG020296.D
Acq On : 19 Dec 2015 4:51
Operator : UM/SJ
Sample : G4768-16
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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	14.912	2051	2055	2064	rVV5	32121	70824	0.90%	0.159%
36	14.994	2064	2069	2072	rVV3	68296	117692	1.50%	0.265%
37	15.029	2072	2075	2080	rVV2	65455	114768	1.47%	0.258%
38	15.129	2085	2092	2099	rVV2	1259494	2085700	26.63%	4.689%
39	15.200	2099	2104	2111	rVB2	75343	123950	1.58%	0.279%
40	15.329	2120	2126	2132	rBV3	21006	42343	0.54%	0.095%
41	15.429	2139	2143	2149	rVB	28378	44305	0.57%	0.100%
42	15.717	2182	2192	2196	rVV	295498	504141	6.44%	1.133%
43	15.775	2196	2202	2207	rVV	1422159	2231323	28.49%	5.017%
44	15.828	2207	2211	2214	rVV	88878	135785	1.73%	0.305%
45	15.893	2218	2222	2225	rVV3	101454	179487	2.29%	0.404%
46	15.928	2225	2228	2233	rVV2	111470	198615	2.54%	0.447%
47	15.981	2233	2237	2240	rVV4	50617	94199	1.20%	0.212%
48	16.016	2240	2243	2247	rVV	55932	96964	1.24%	0.218%
49	16.057	2247	2250	2259	rVV	108669	167911	2.14%	0.378%
50	16.204	2259	2275	2284	rVV4	136105	359910	4.60%	0.809%
51	16.439	2308	2315	2323	rVB2	35328	64084	0.82%	0.144%
52	16.563	2329	2336	2341	rBV	77302	123887	1.58%	0.279%
53	16.639	2346	2349	2357	rVB	37528	64752	0.83%	0.146%
54	16.721	2358	2363	2368	rBV2	71522	140566	1.79%	0.316%
55	16.768	2368	2371	2376	rVV2	57791	87247	1.11%	0.196%
56	16.821	2376	2380	2386	rVB5	29369	51736	0.66%	0.116%
57	16.921	2390	2397	2401	rBV	26350	43753	0.56%	0.098%
58	17.121	2427	2431	2437	rVB	83796	126381	1.61%	0.284%
59	17.250	2447	2453	2455	rVV	51525	73913	0.94%	0.166%
60	17.285	2455	2459	2466	rVB	202180	302354	3.86%	0.680%
61	17.473	2484	2491	2493	rVV	202718	347127	4.43%	0.780%
62	17.520	2493	2499	2504	rVV	2257278	3731077	47.64%	8.389%
63	17.573	2504	2508	2511	rVV	417133	618472	7.90%	1.391%
64	17.603	2511	2513	2519	rVB	145370	174445	2.23%	0.392%
65	17.661	2519	2523	2533	rVB5	31426	62544	0.80%	0.141%
66	17.832	2547	2552	2554	rBV	60682	89774	1.15%	0.202%
67	17.885	2554	2561	2567	rVB	1673334	2794910	35.68%	6.284%
68	17.961	2567	2574	2581	rBV3	103506	277691	3.55%	0.624%
69	18.020	2581	2584	2591	rVB	133555	200510	2.56%	0.451%
70	18.108	2591	2599	2605	rBV4	43032	116651	1.49%	0.262%
71	18.214	2613	2617	2621	rVB4	27135	44100	0.56%	0.099%

LSC Area Percent Report

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Data File : BG020296.D
Acq On : 19 Dec 2015 4:51
Operator : UM/SJ
Sample : G4768-16
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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	18.302	2628	2632	2635	rBV	58772	78663	1.00%	0.177%
73	18.343	2635	2639	2642	rBV	54142	64037	0.82%	0.144%
74	18.390	2642	2647	2652	rVB	341046	494960	6.32%	1.113%
75	18.461	2652	2659	2665	rVB3	113790	205403	2.62%	0.462%
76	18.543	2665	2673	2681	rBV2	198845	380214	4.85%	0.855%
77	18.643	2681	2690	2693	rBV2	116009	256262	3.27%	0.576%
78	18.684	2693	2697	2701	rVV	131351	178403	2.28%	0.401%
79	18.778	2707	2713	2718	rBV	151050	235430	3.01%	0.529%
80	18.831	2718	2722	2726	rVB2	75740	112105	1.43%	0.252%
81	18.878	2726	2730	2734	rBV	133842	182936	2.34%	0.411%
82	19.142	2771	2775	2781	rVV4	27606	58665	0.75%	0.132%
83	19.348	2801	2810	2815	rBV5	37776	93954	1.20%	0.211%
84	19.518	2832	2839	2844	rVV	536537	768918	9.82%	1.729%
85	19.712	2867	2872	2876	rBV3	42558	69437	0.89%	0.156%
86	19.853	2888	2896	2898	rBV	462701	756940	9.66%	1.702%
87	19.877	2898	2900	2910	rVB	357103	469457	5.99%	1.055%
88	20.070	2925	2933	2938	rBV4	38003	65835	0.84%	0.148%
89	20.253	2958	2964	2969	rVV	212549	306676	3.92%	0.690%
90	20.317	2969	2975	2980	rVV	198616	307798	3.93%	0.692%
91	20.464	2994	3000	3004	rVV2	33883	53651	0.69%	0.121%
92	20.922	3073	3078	3081	rBV	33480	50937	0.65%	0.115%
93	20.969	3081	3086	3093	rVB2	55298	103066	1.32%	0.232%
94	21.316	3139	3145	3148	rBV2	31873	53458	0.68%	0.120%
95	21.351	3148	3151	3157	rVV3	28604	46281	0.59%	0.104%
96	21.739	3209	3217	3223	rVV2	301264	561768	7.17%	1.263%
97	22.156	3281	3288	3294	rBV	32000	57099	0.73%	0.128%
98	22.374	3318	3325	3335	rBV	36859	81187	1.04%	0.183%
99	24.788	3724	3736	3748	rBV	222769	619268	7.91%	1.392%
100	25.012	3764	3774	3787	rBV	146133	412582	5.27%	0.928%

Sum of corrected areas: 44478004

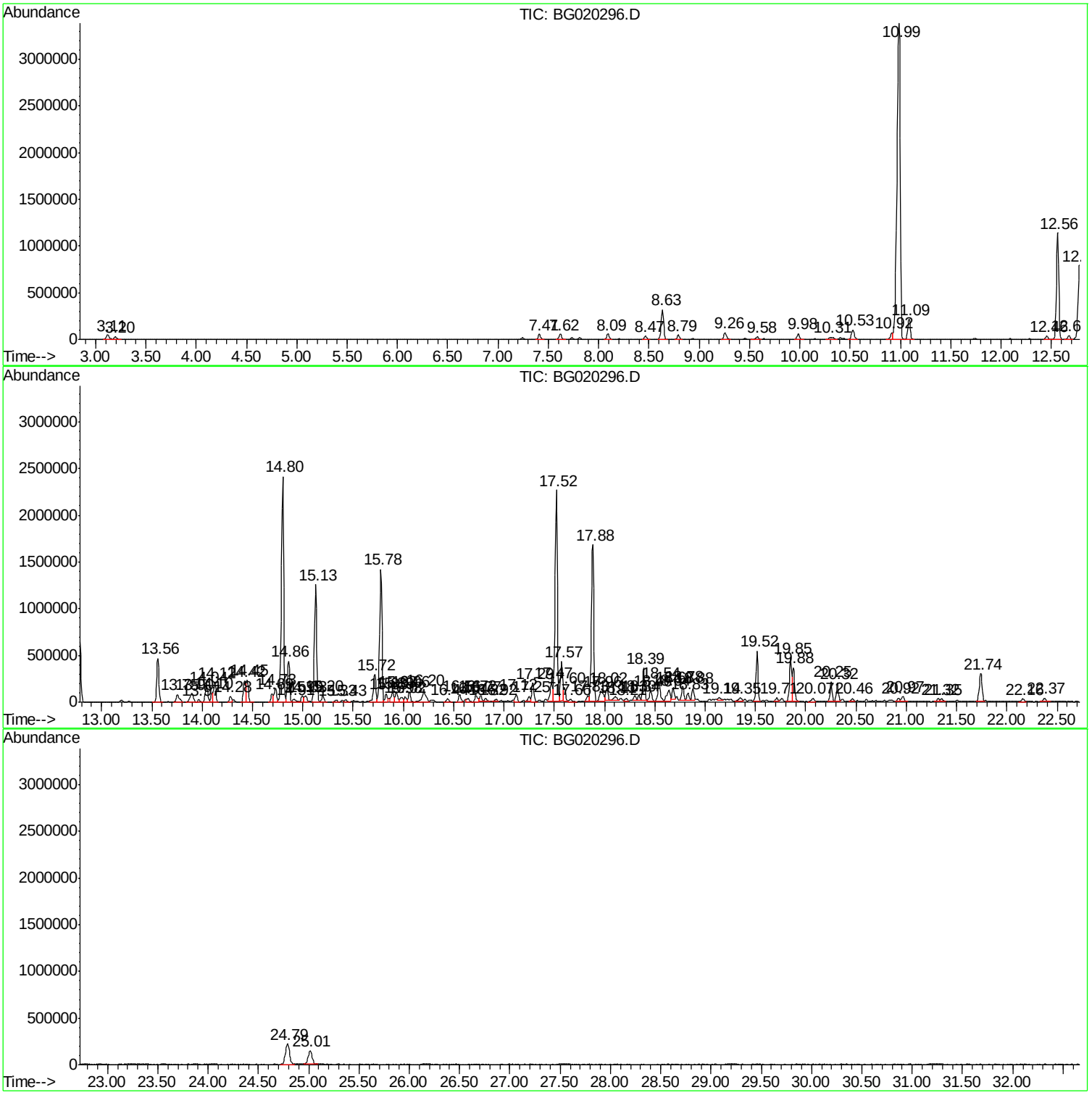
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121915\
Data File : BG020296.D
Acq On : 19 Dec 2015 4:51
Operator : UM/SJ
Sample : G4768-16
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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



Data Path : Z:\HPCHEM1\BNA G\DATA\BG121915\
Data File : BG020296.D
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Operator : UM/SJ
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Misc :
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Instrument : BNA_G
ClientSampleId : D9N40

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

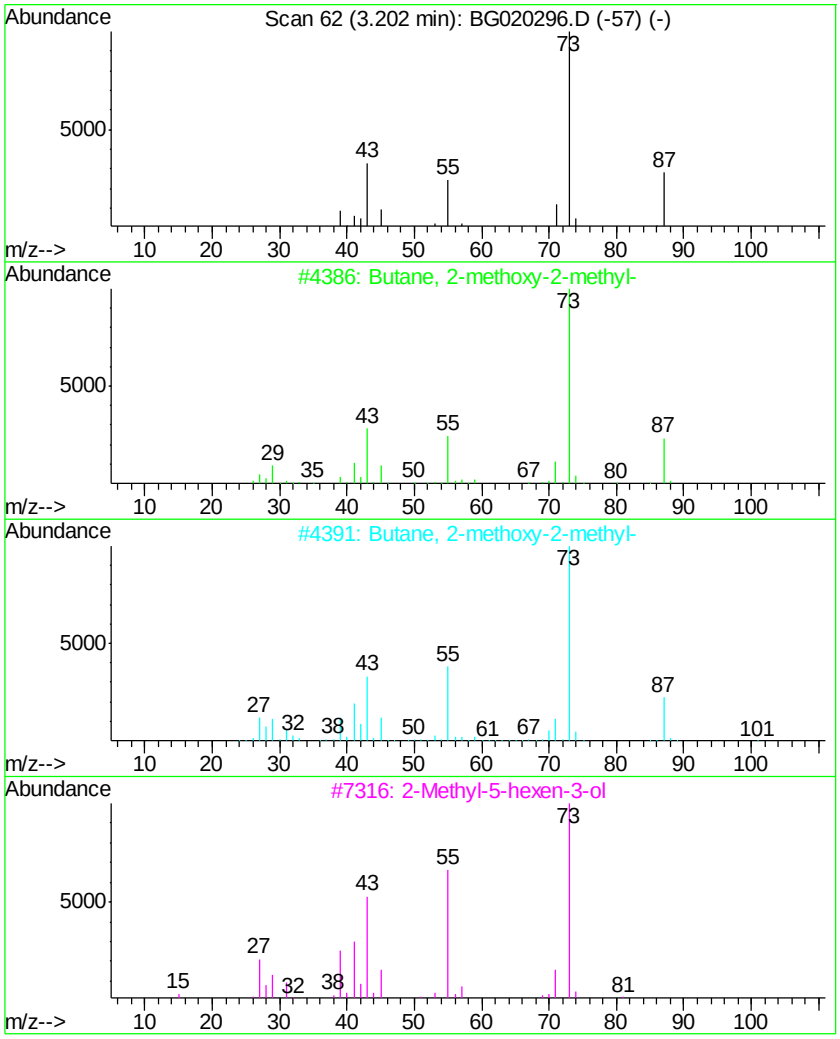
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

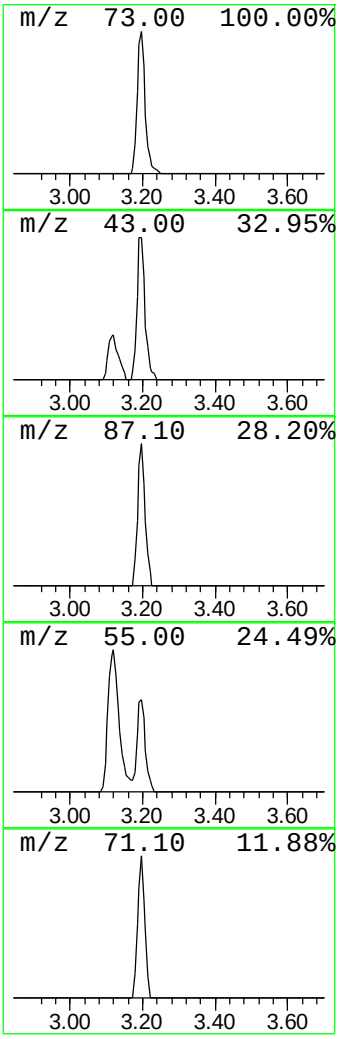
****

Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.20	8.24 ng/ul	40756	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	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	74
3	2-Methyl-5-hexen-3-ol	114	C7H14O	032815-70-6	25
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	25
5	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	16





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121915\
Data File : BG020296.D
Acq On : 19 Dec 2015 4:51
Operator : UM/SJ
Sample : G4768-16
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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

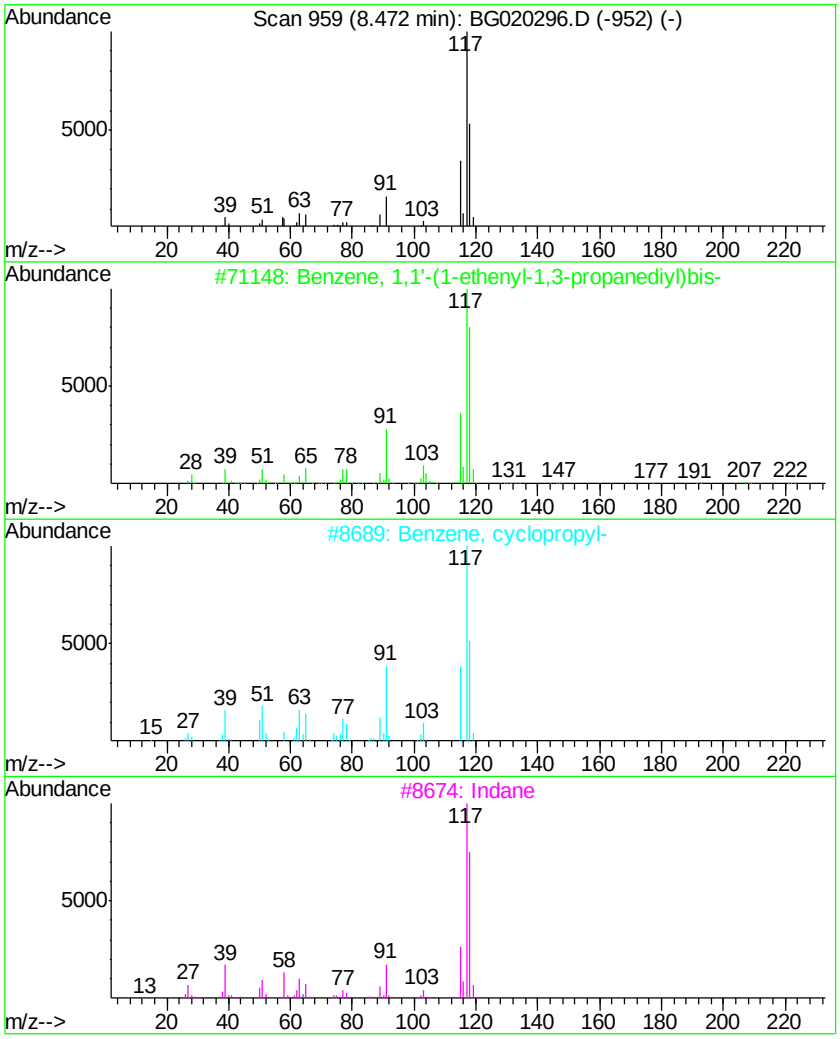
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

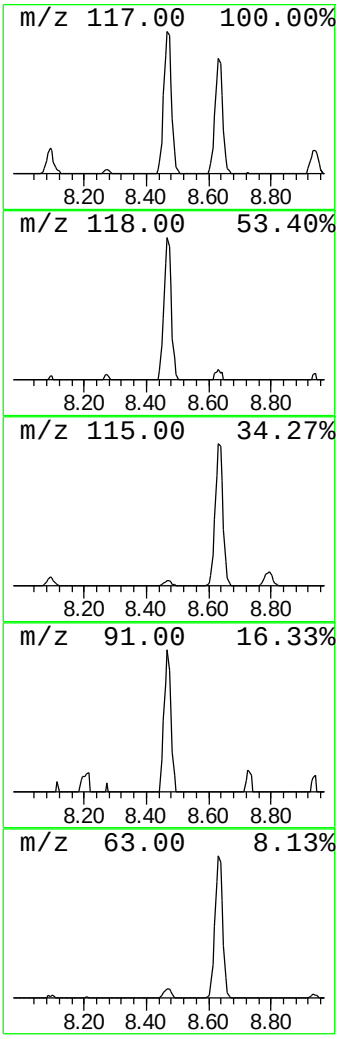
****

Peak Number 3 Benzene, 1,1'-(1-ethenyl-1,... Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.47	11.76 ng/ul	58148	1,4-Dichlorobenzene-d4	8.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,1'-(1-ethenyl-1,3-pro...	222	C17H18	061141-97-7	90
2	Benzene, cyclopropyl-	118	C9H10	000873-49-4	87
3	Indane	118	C9H10	000496-11-7	87
4	Indane	118	C9H10	000496-11-7	87
5	Benzene, 1-propenyl-	118	C9H10	000637-50-3	83





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121915\
Data File : BG020296.D
Acq On : 19 Dec 2015 4:51
Operator : UM/SJ
Sample : G4768-16
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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

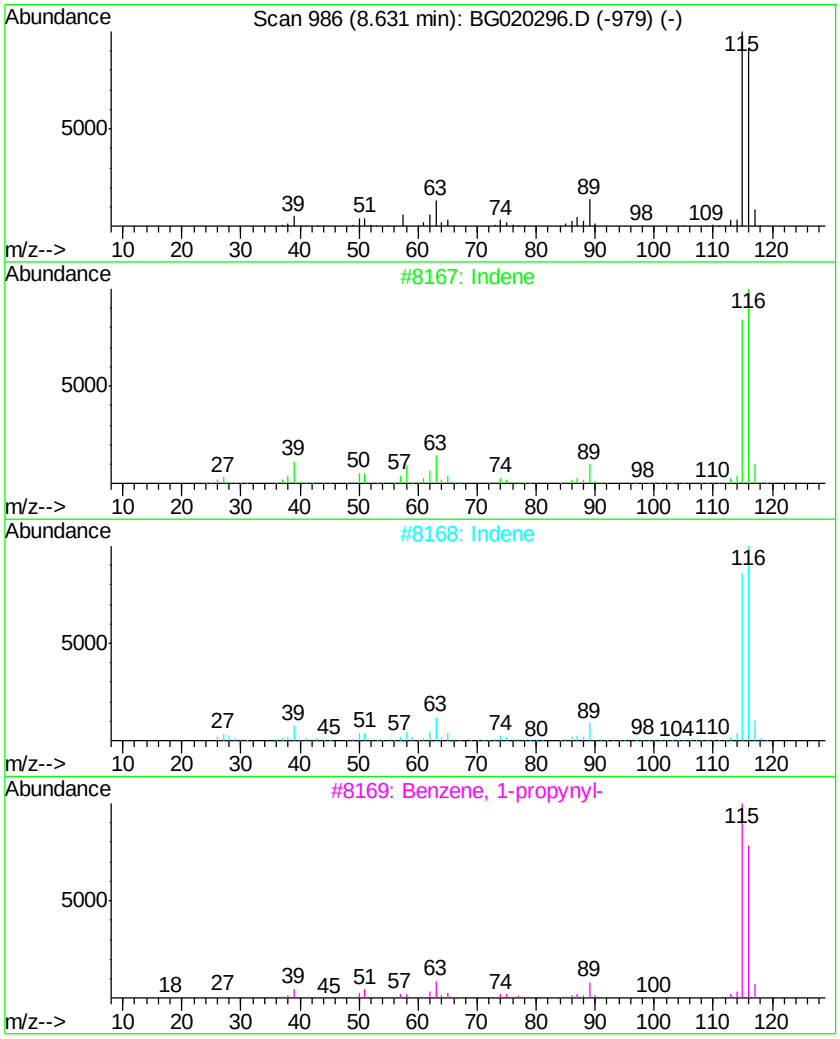
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

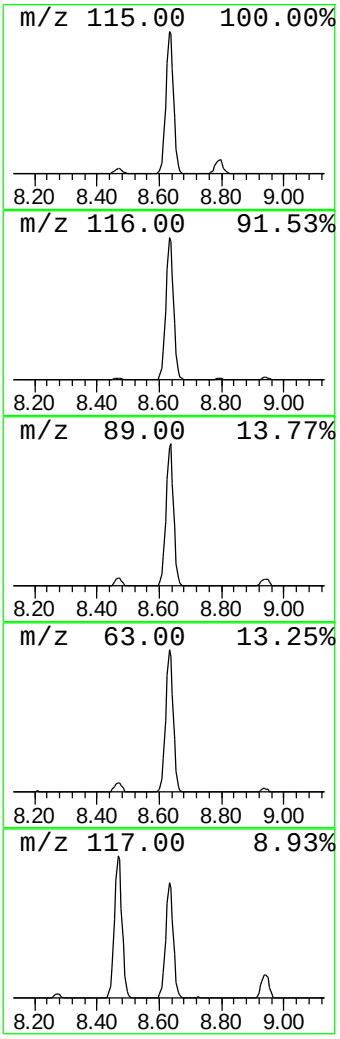
****

Peak Number 4 Indene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.63	111.62 ng/ul	552050	1,4-Dichlorobenzene-d4	8.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indene	116	C9H8	000095-13-6	95
2	Indene	116	C9H8	000095-13-6	95
3	Benzene, 1-propynyl-	116	C9H8	000673-32-5	91
4	Indene	116	C9H8	000095-13-6	91
5	Benzene, 1-propynyl-	116	C9H8	000673-32-5	91





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121915\
Data File : BG020296.D
Acq On : 19 Dec 2015 4:51
Operator : UM/SJ
Sample : G4768-16
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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

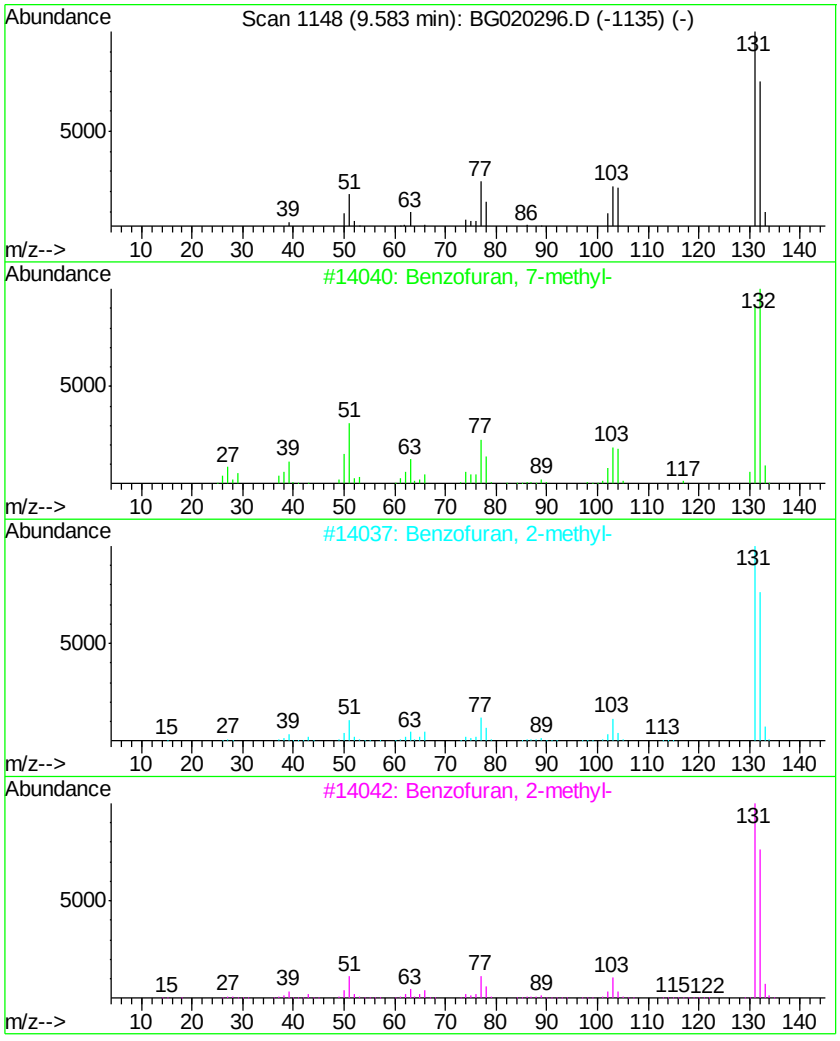
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

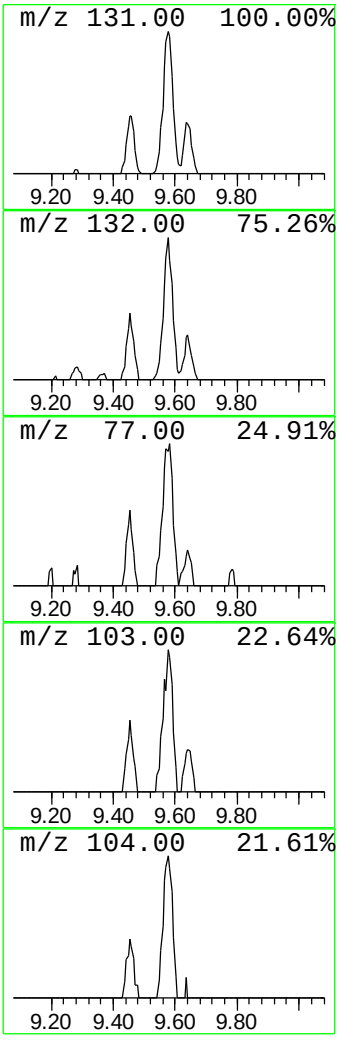
****

Peak Number 5 Benzofuran, 7-methyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.58	10.65 ng/ul	60099	Naphthalene-d8	10.92

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzofuran, 7-methyl-	132	C9H8O	017059-52-8	93
2	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	91
3	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	91
4	3-Phenyl-2-propyn-1-ol	132	C9H8O	001504-58-1	91
5	Benzofuran, 2-methyl-	132	C9H8O	004265-25-2	91





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121915\
Data File : BG020296.D
Acq On : 19 Dec 2015 4:51
Operator : UM/SJ
Sample : G4768-16
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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

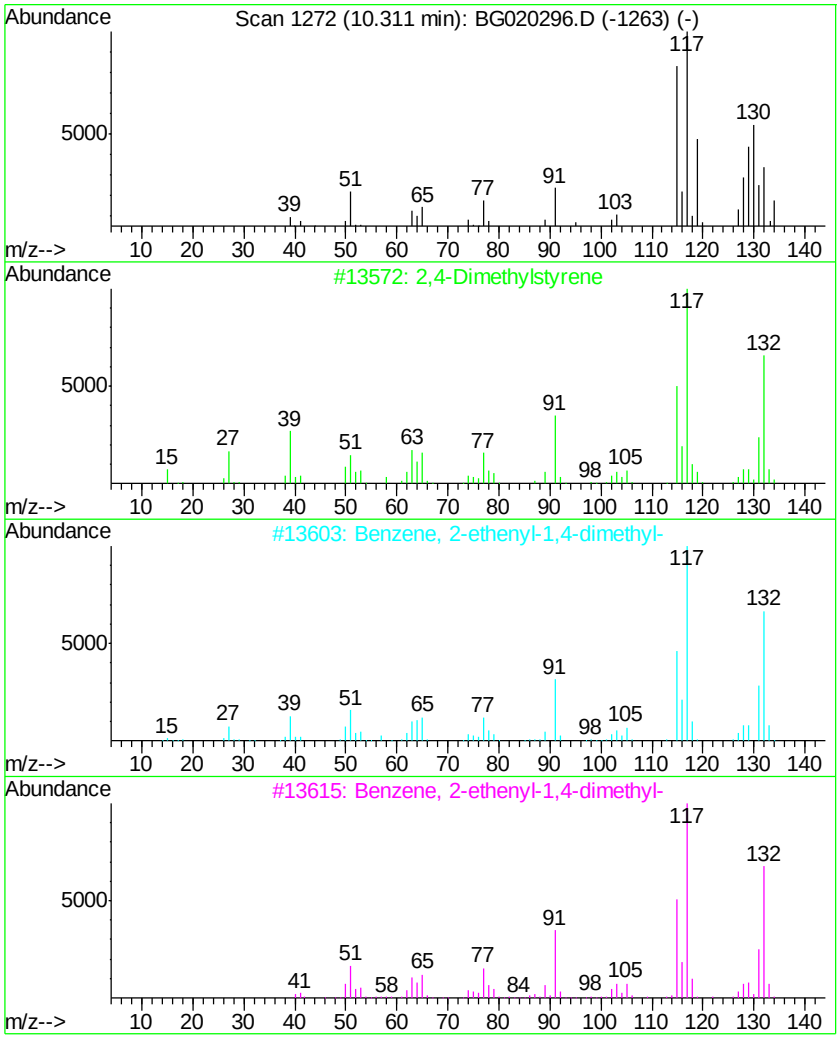
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

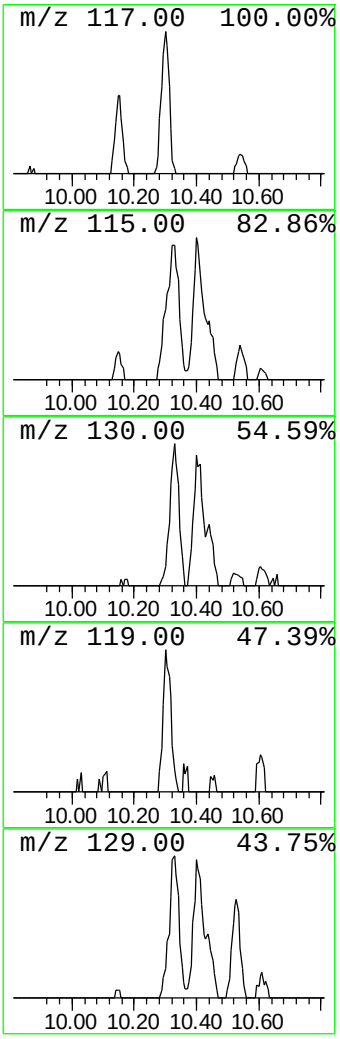
****

Peak Number 6 2,4-Dimethylstyrene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.31	12.81 ng/ul	72269	Naphthalene-d8	10.92

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4-Dimethylstyrene	132	C10H12	002234-20-0	91
2	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	86
3	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	64
4	Benzene, 1-butenyl-, (E)-	132	C10H12	001005-64-7	64
5	3-Phenylbut-1-ene	132	C10H12	000934-10-1	64





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121915\
Data File : BG020296.D
Acq On : 19 Dec 2015 4:51
Operator : UM/SJ
Sample : G4768-16
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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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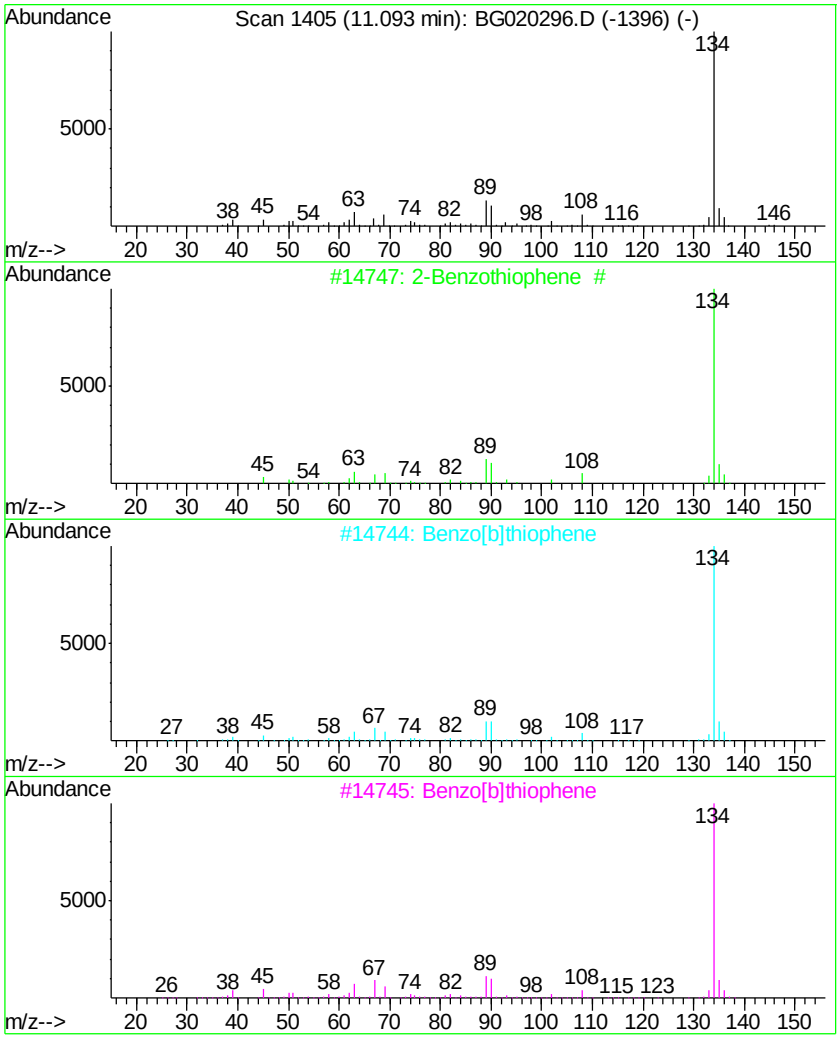
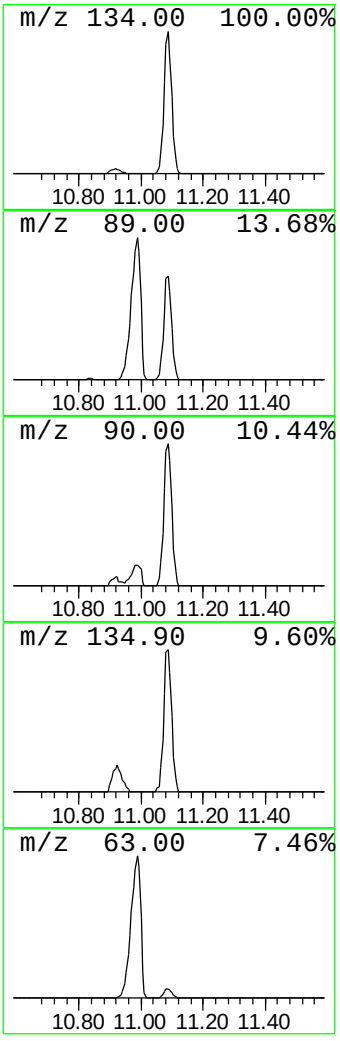
Peak Number 7 2-Benzothiophene # Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.09	67.01 ng/ul	378149	Naphthalene-d8	10.92

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Benzothiophene #	134	C8H6S	000270-82-6	97
2	Benzo[b]thiophene	134	C8H6S	000095-15-8	95
3	Benzo[b]thiophene	134	C8H6S	000095-15-8	94
4	Benzo[b]thiophene	134	C8H6S	000095-15-8	94
5	Cyclopenta[c]thiapyran	134	C8H6S	000270-63-3	94





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Sample : G4768-16
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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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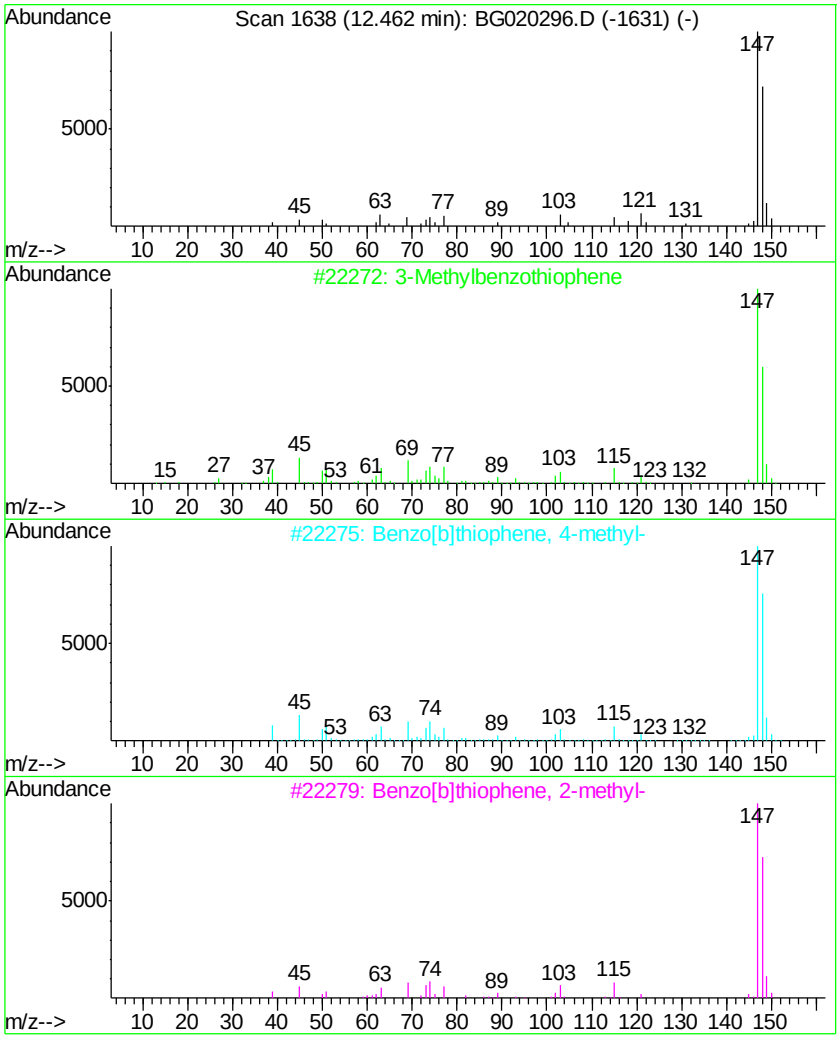
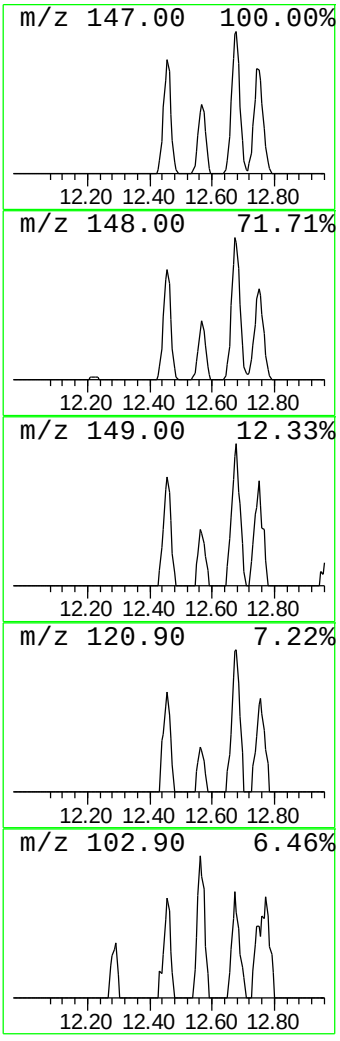
Peak Number 8 3-Methylbenzothiophene Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.46	10.44 ng/ul	58905	Naphthalene-d8	10.92

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Methylbenzothiophene	148	C9H8S	001455-18-1	90
2	Benzo[b]thiophene, 4-methyl-	148	C9H8S	014315-11-8	87
3	Benzo[b]thiophene, 2-methyl-	148	C9H8S	001195-14-8	86
4	Benzo[b]thiophene, 2-methyl-	148	C9H8S	001195-14-8	86
5	Benzaldehyde, 2,4,6-trimethyl-	148	C10H12O	000487-68-3	86





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Sample : G4768-16
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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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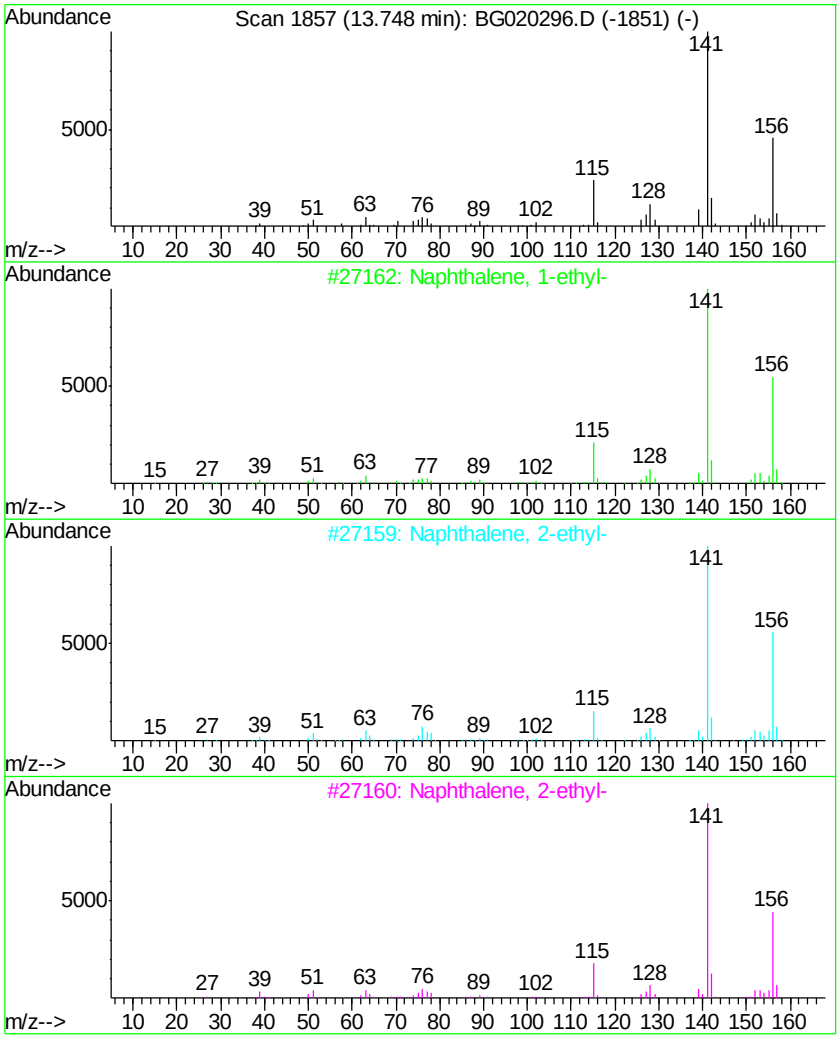
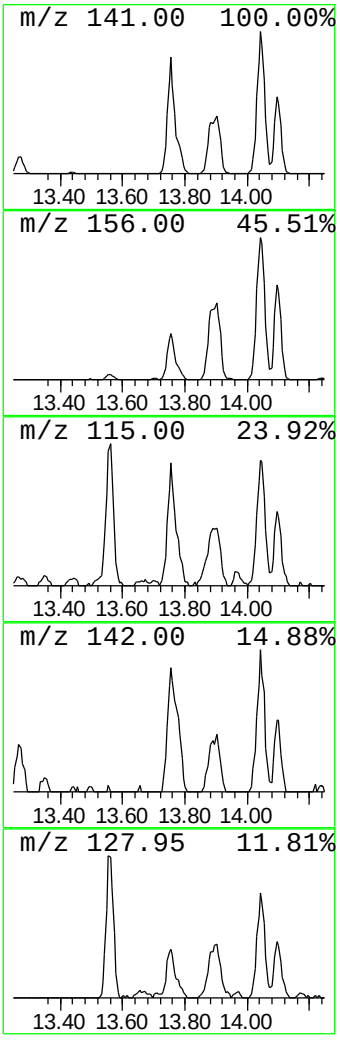
Peak Number 10 Naphthalene, 1-ethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.75	14.15 ng/ul	172136	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	95
2	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	94
3	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	94
4	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	93
5	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	93





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Sample : G4768-16
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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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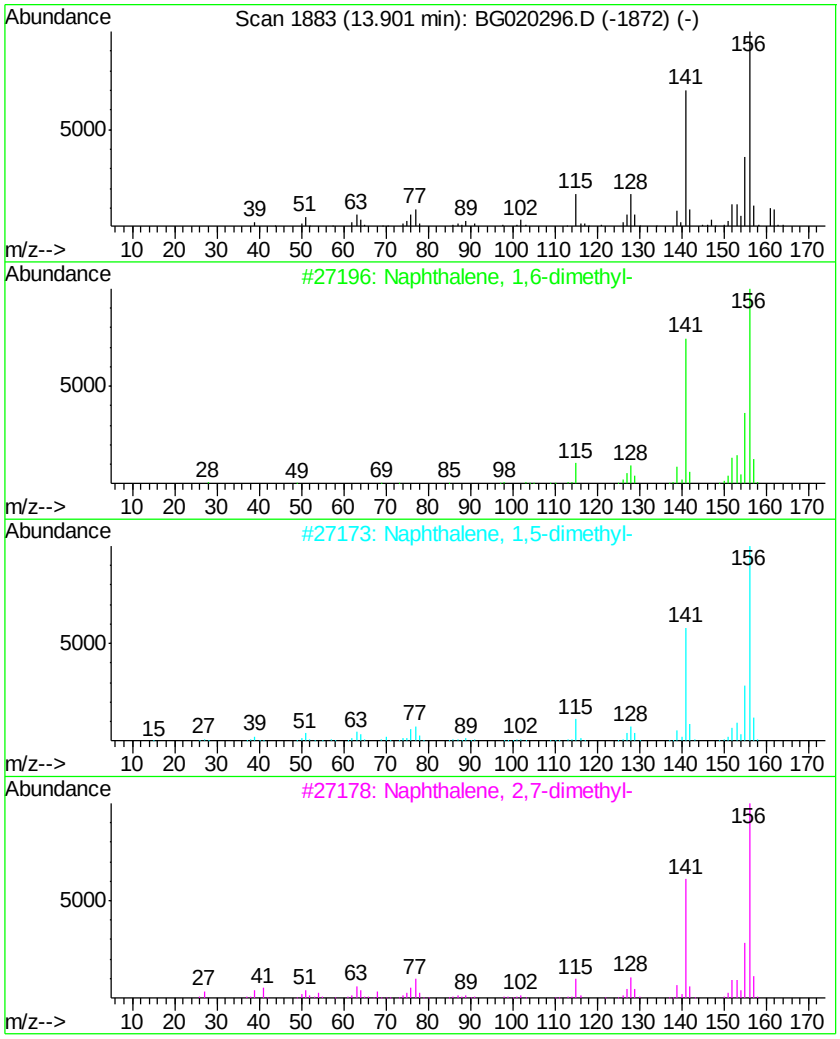
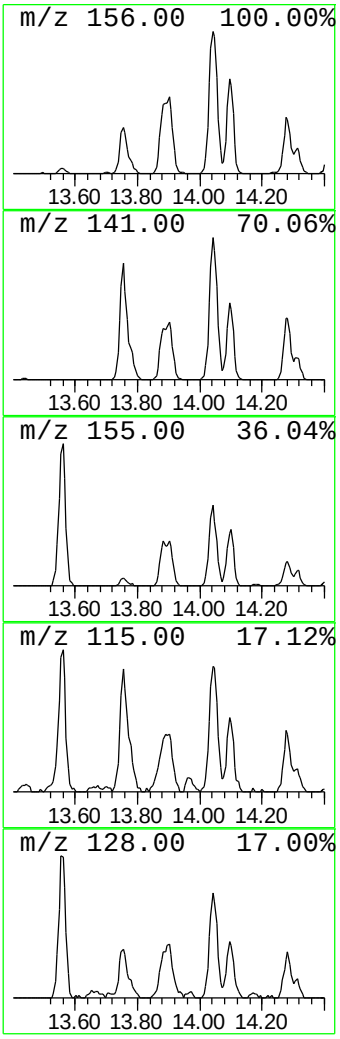
Peak Number 11 Naphthalene, 1,6-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.90	18.25 ng/ul	221948	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
2	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	95
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	95
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	95
5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	95





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Operator : UM/SJ
Sample : G4768-16
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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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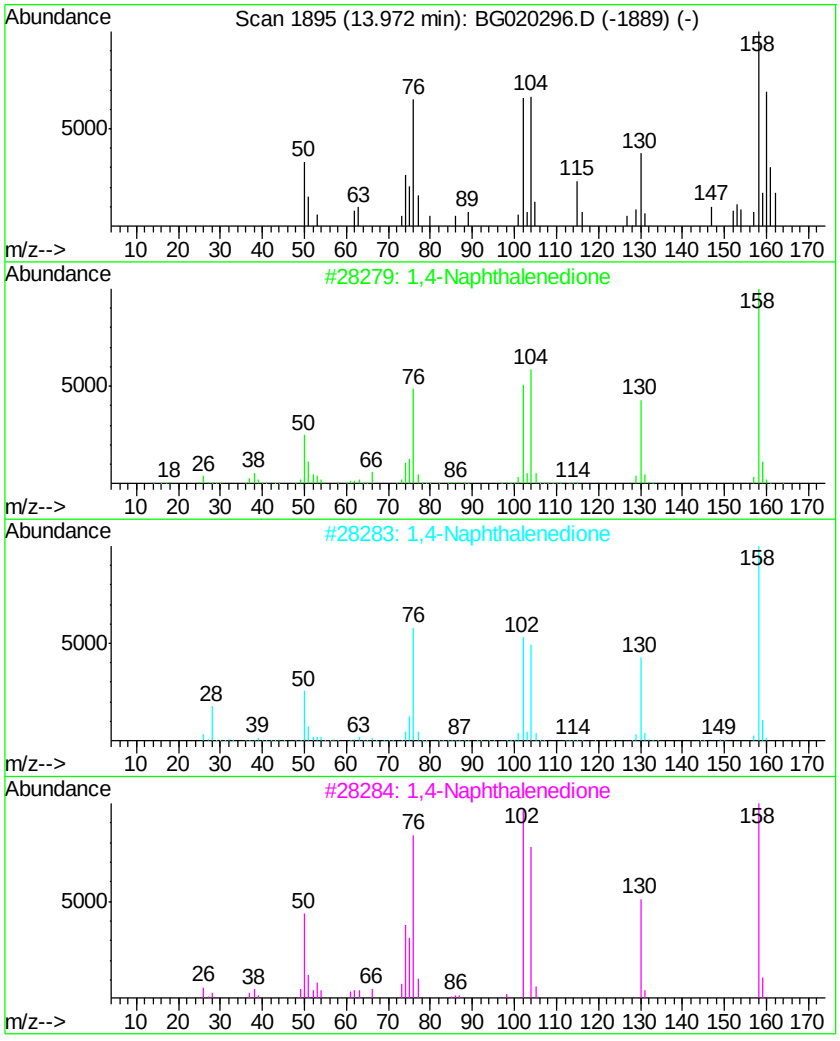
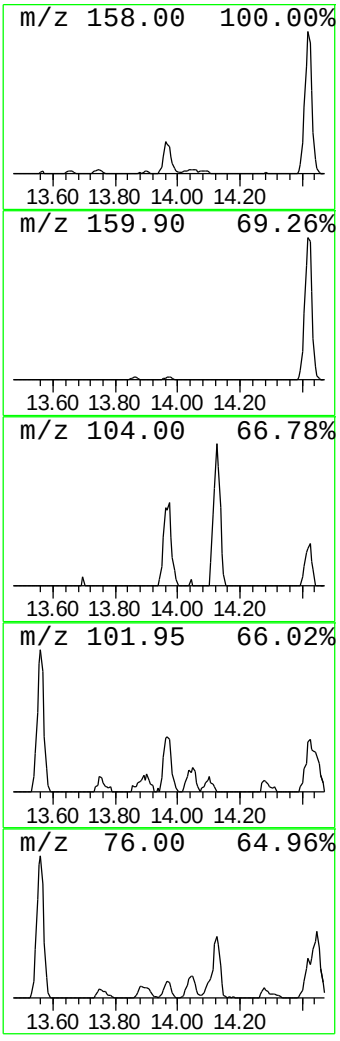
Peak Number 12 1,4-Naphthalenedione Concentration Rank 54

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.97	3.33 ng/ul	40479	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Naphthalenedione	158	C10H6O2	000130-15-4	96
2	1,4-Naphthalenedione	158	C10H6O2	000130-15-4	94
3	1,4-Naphthalenedione	158	C10H6O2	000130-15-4	93
4	1H-Inden-1-one, 2-diazo-2,3-dihy...	158	C9H6N2O	001775-23-1	38
5	2,3-Naphthalenediamine	158	C10H10N2	000771-97-1	30





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Sample : G4768-16
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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Quant Title : SVOA CALIBRATION

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

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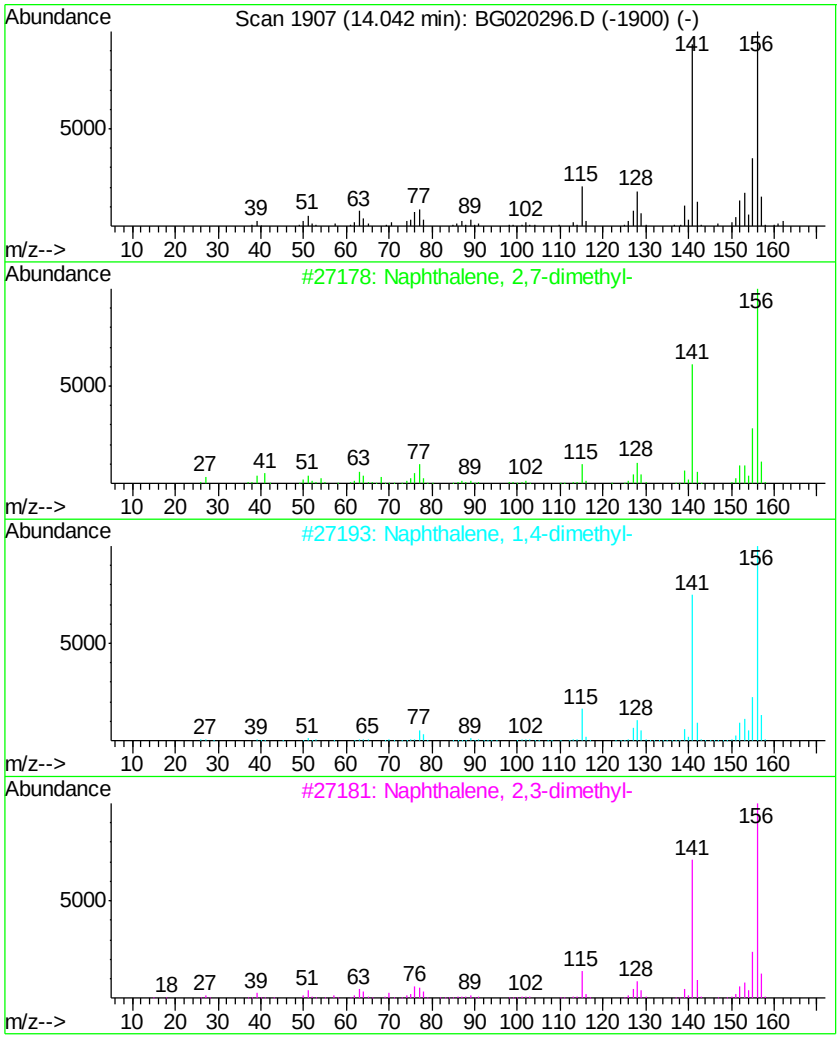
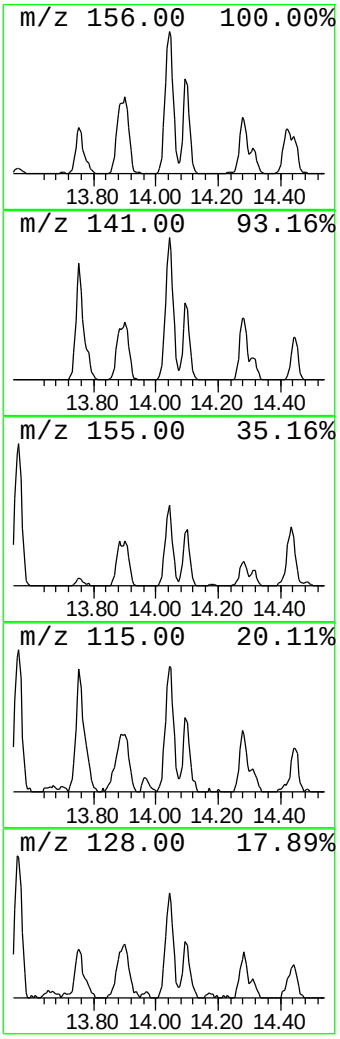
Peak Number 13 Naphthalene, 2,7-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.04	24.25 ng/ul	295023	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
2	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96
5	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96





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Sample : G4768-16
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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Quant Title : SVOA CALIBRATION

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

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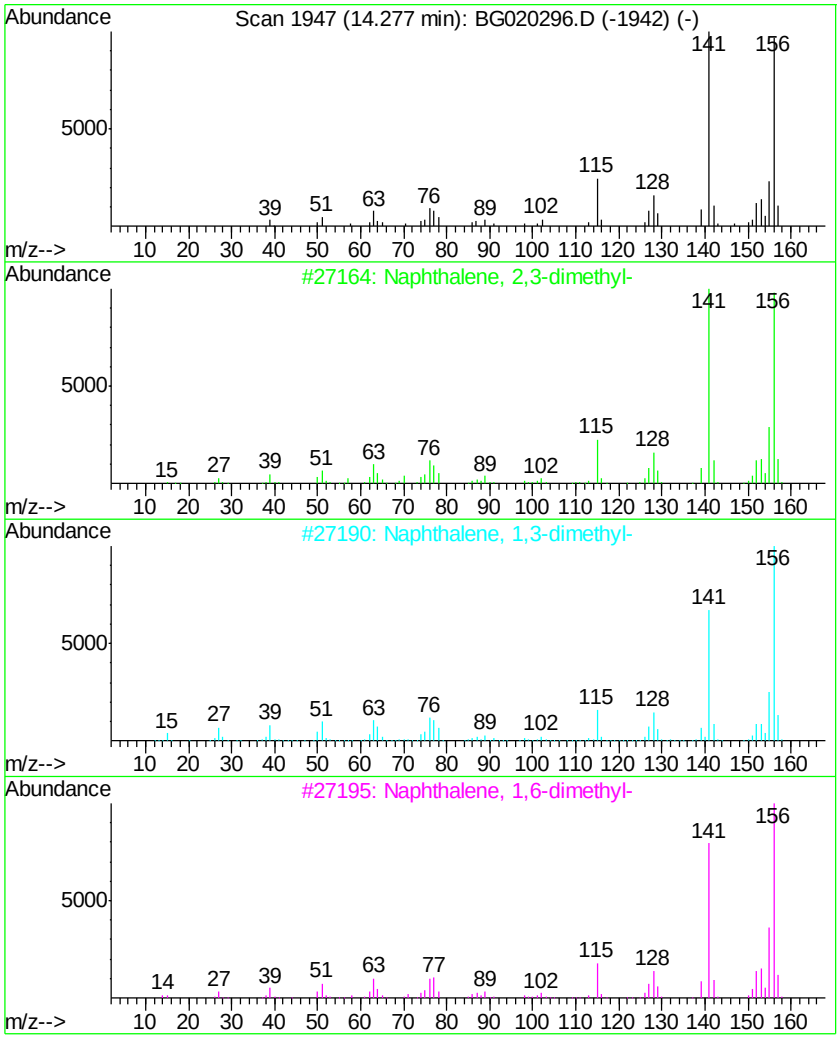
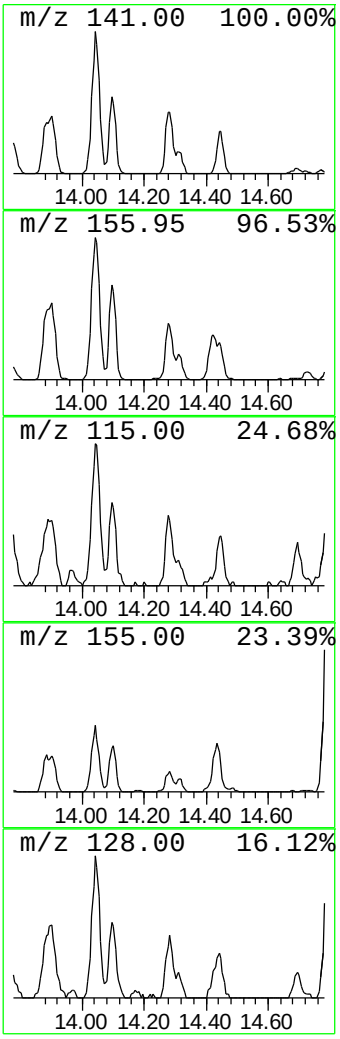
Peak Number 14 Naphthalene, 2,3-dimethyl- Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.28	8.48 ng/ul	103196	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	95
5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	95





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Sample : G4768-16
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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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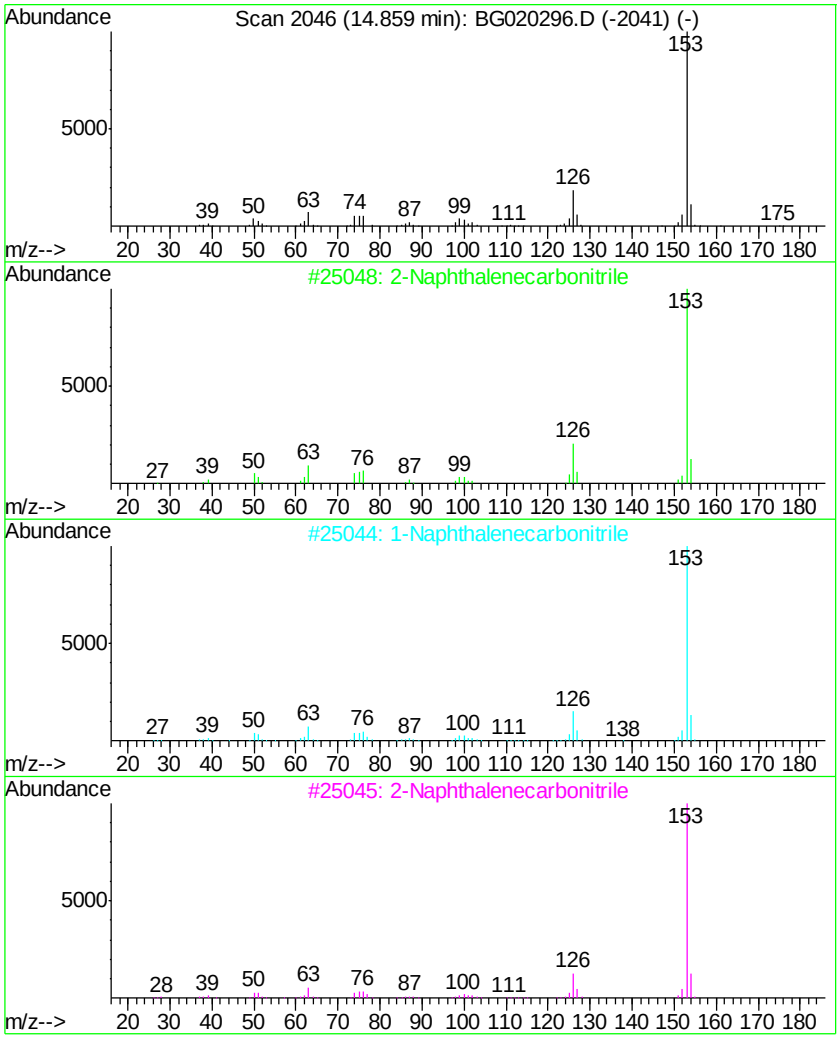
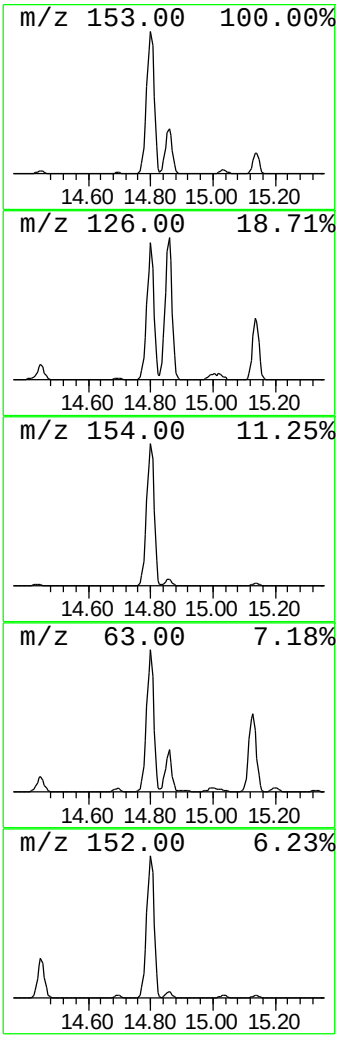
Peak Number 15 2-Naphthalenecarbonitrile Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.86	56.48 ng/ul	687058	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Naphthalenecarbonitrile	153	C11H7N	000613-46-7	97
2	1-Naphthalenecarbonitrile	153	C11H7N	000086-53-3	97
3	2-Naphthalenecarbonitrile	153	C11H7N	000613-46-7	94
4	2-Naphthalenecarbonitrile	153	C11H7N	000613-46-7	91
5	1-Naphthalenecarbonitrile	153	C11H7N	000086-53-3	91





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Instrument : BNA_G
ClientSampleId : D9N40

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Quant Title : SVOA CALIBRATION

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

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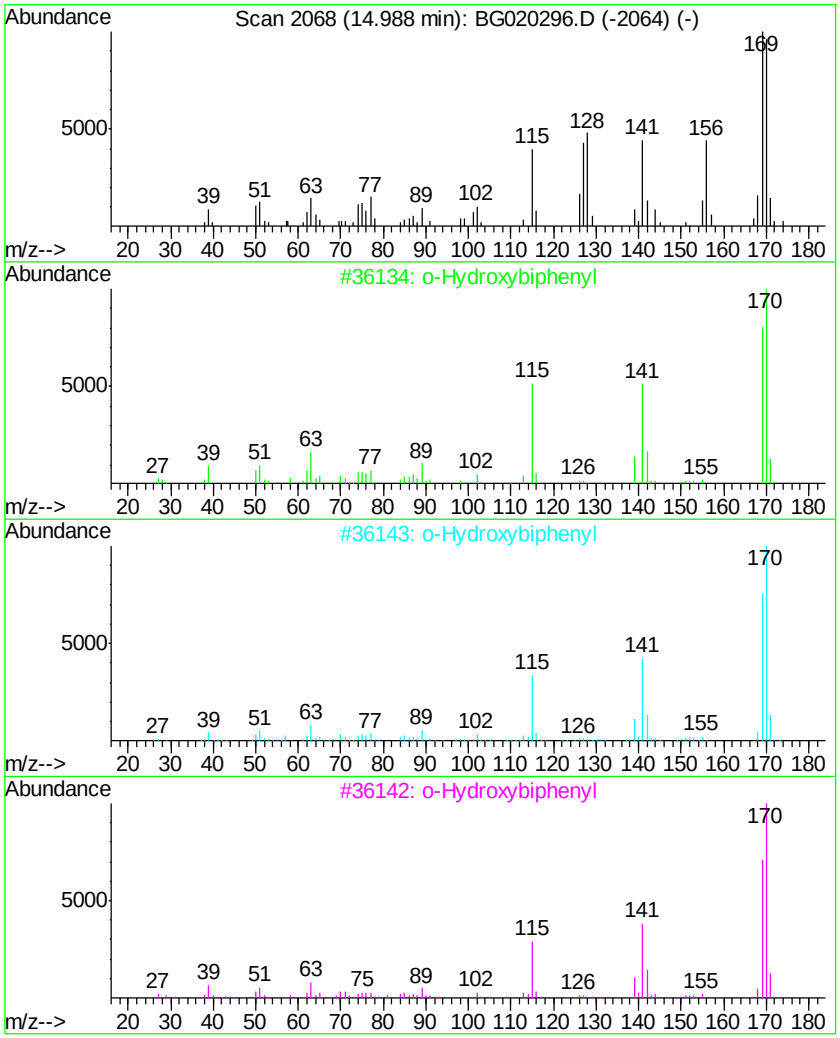
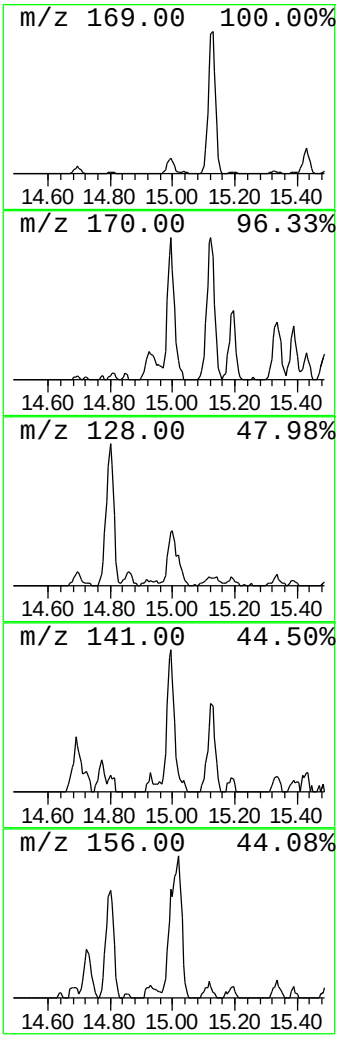
Peak Number 16 o-Hydroxybiphenyl Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.99	9.68 ng/ul	117692	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Hydroxybiphenyl	170	C12H10O	000090-43-7	95
2	o-Hydroxybiphenyl	170	C12H10O	000090-43-7	91
3	o-Hydroxybiphenyl	170	C12H10O	000090-43-7	60
4	1-Acenaphthenol	170	C12H10O	006306-07-6	43
5	[1,1'-Biphenyl]-3-ol	170	C12H10O	000580-51-8	42





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ClientSampleId : D9N40

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Quant Title : SVOA CALIBRATION

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

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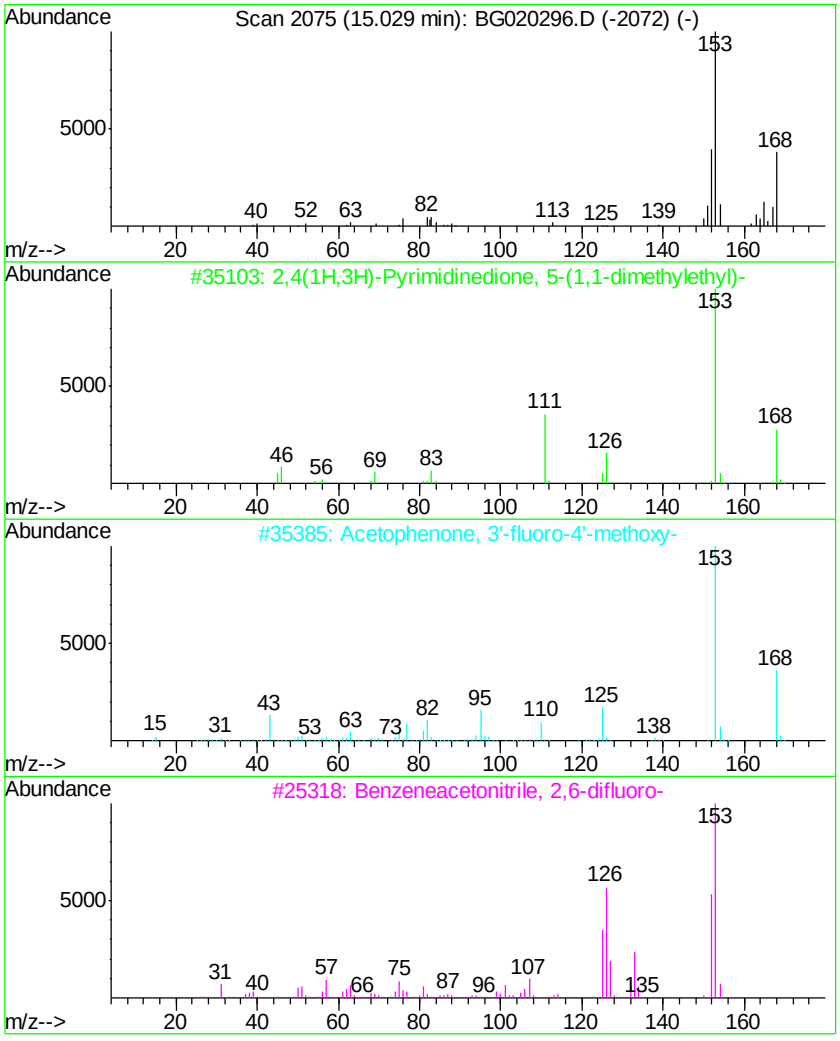
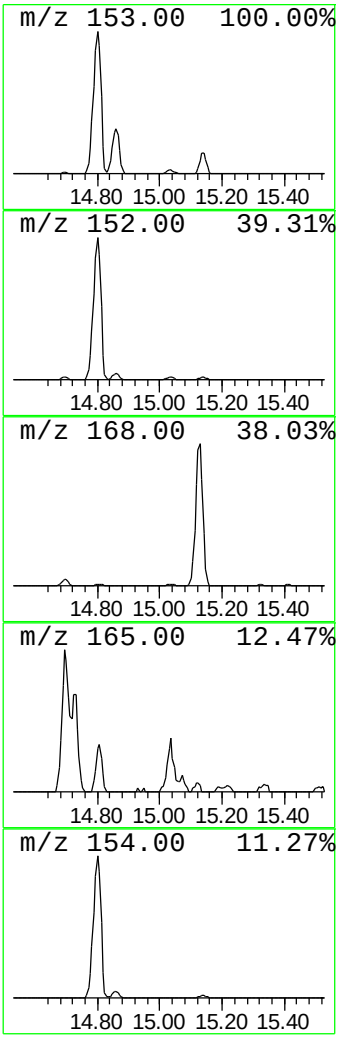
Peak Number 17 unknown-01 Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.03	9.44 ng/ul	114768	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4(1H,3H)-Pyrimidinedione, 5-(1...	168	C8H12N2O2	017432-97-2	37
2	Acetophenone, 3'-fluoro-4'-methoxy-	168	C9H9FO2	000455-91-4	37
3	Benzeneacetonitrile, 2,6-difluoro-	153	C8H5F2N	000654-01-3	33
4	Benzene-1,2,4-tricarbonitrile	153	C9H3N3	010347-14-5	9
5	Benzeneacetonitrile, 3,4-difluoro-	153	C8H5F2N	000658-99-1	9





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Quant Title : SVOA CALIBRATION

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

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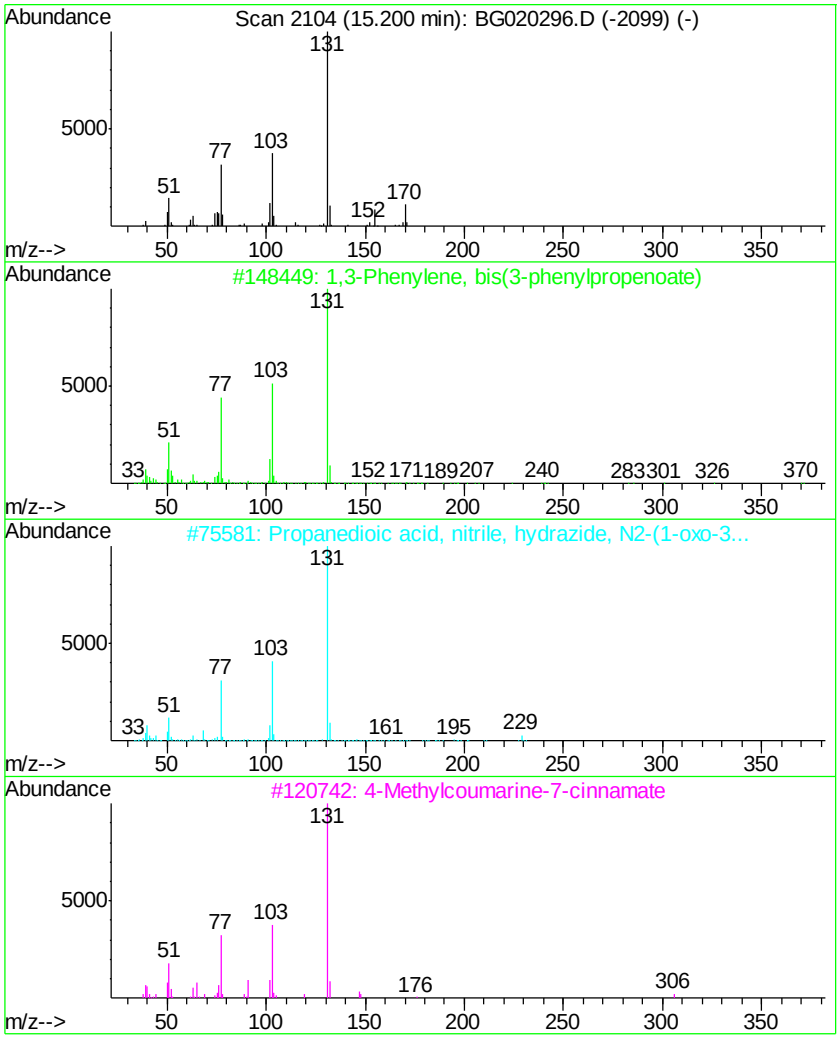
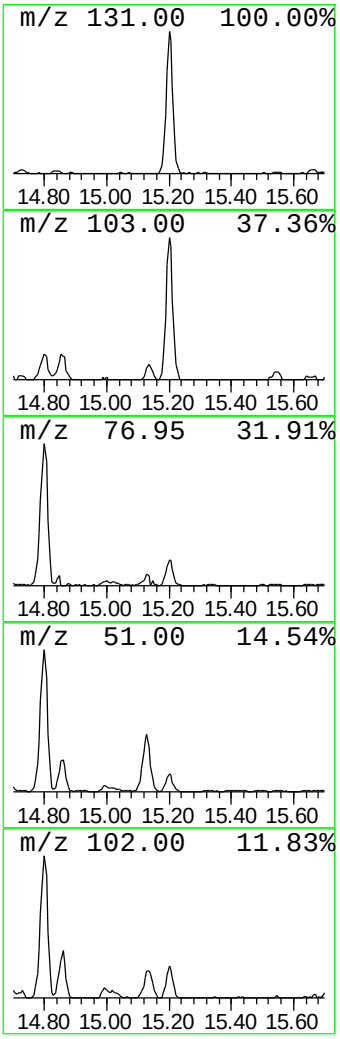
Peak Number 18 1,3-Phenylene, bis(3-phenyl... Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.20	10.19 ng/ul	123950	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Phenylene, bis(3-phenylprope...	370	C24H18O4	1000259-62-4	78
2	Propanedioic acid, nitrile, hydr...	229	C12H11N3O2	294878-35-6	72
3	4-Methylcoumarine-7-cinnamate	306	C19H14O4	300829-05-4	72
4	p-Vinylbenzohydrazide	162	C9H10N2O	1000244-74-9	72
5	2-Propenoic acid, 3-phenyl-, met...	162	C10H10O2	001754-62-7	72





Library Search Compound Report

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Sample : G4768-16
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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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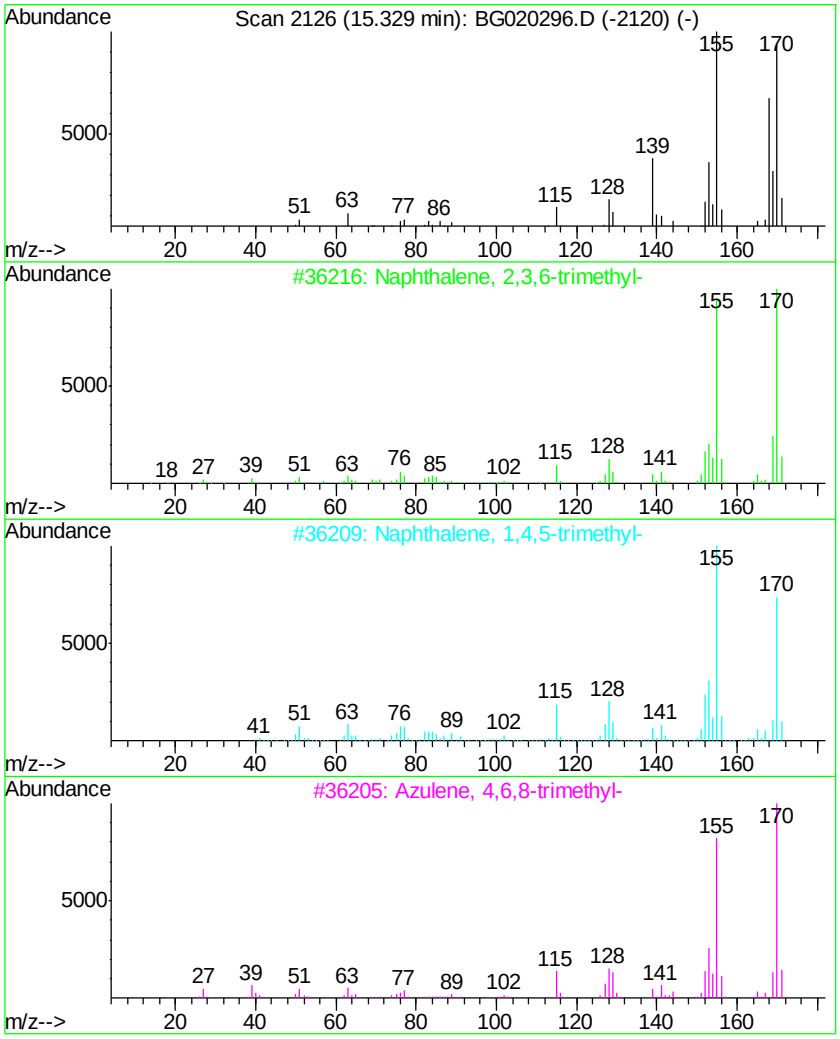
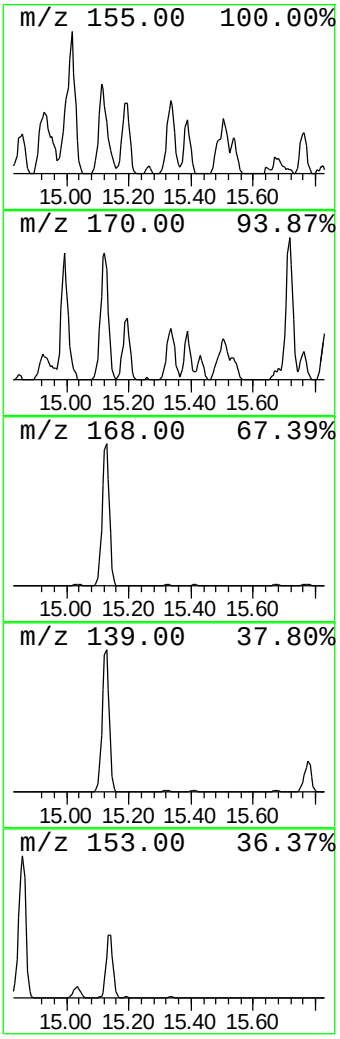
Peak Number 19 Naphthalene, 2,3,6-trimethyl- Concentration Rank 52

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.33	3.48 ng/ul	42343	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	96
2	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	89
3	Azulene, 4,6,8-trimethyl-	170	C13H14	000941-81-1	89
4	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	81
5	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	76





Library Search Compound Report

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Acq On : 19 Dec 2015 4:51
Operator : UM/SJ
Sample : G4768-16
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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Quant Title : SVOA CALIBRATION

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

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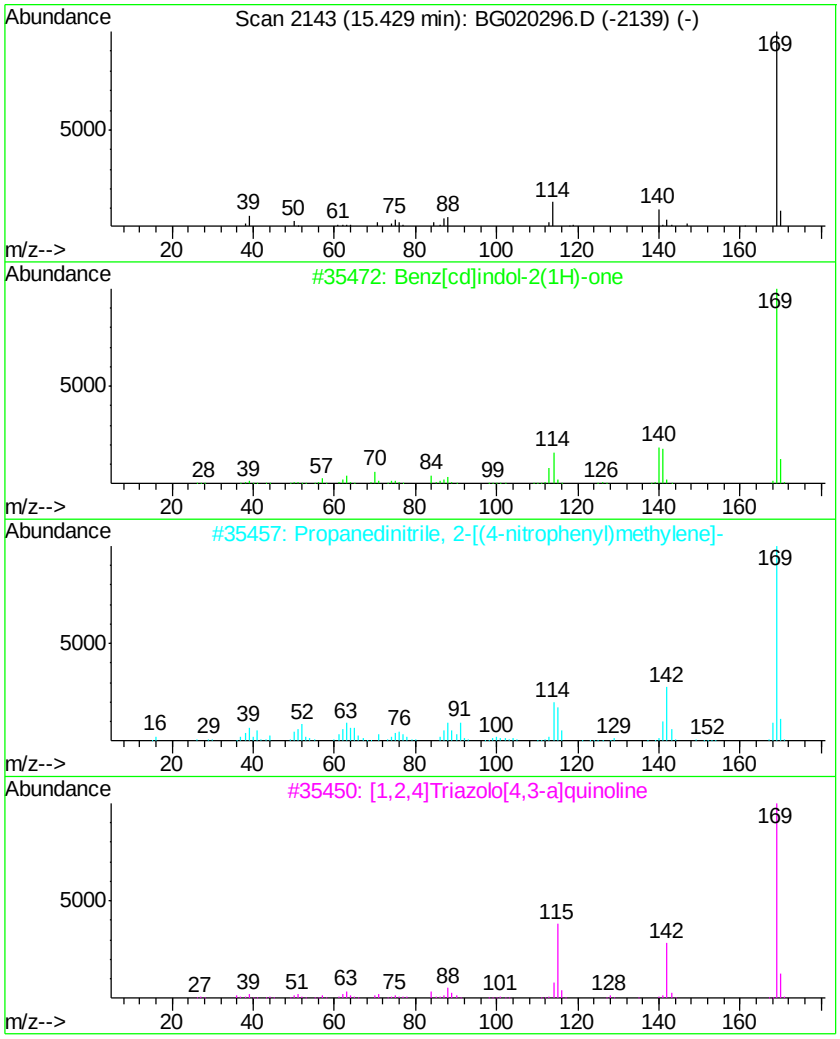
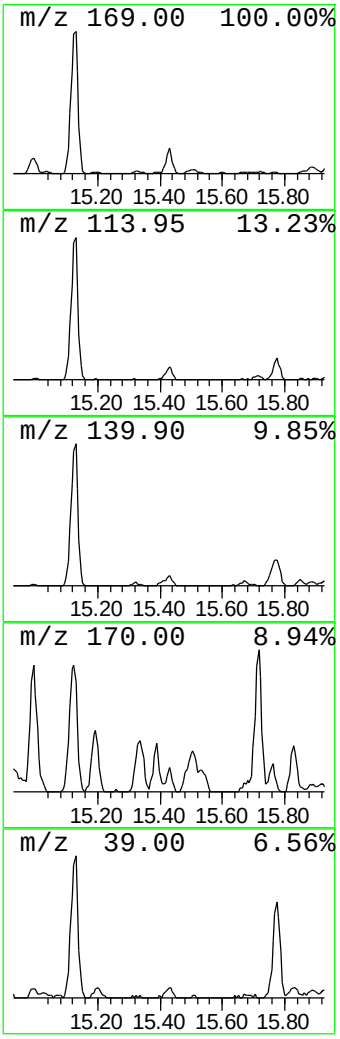
Peak Number 20 Benz[cd]indol-2(1H)-one Concentration Rank 50

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.43	3.64 ng/ul	44305	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[cd]indol-2(1H)-one	169	C11H7NO	000130-00-7	56
2	Propanedinitrile, 2-[(4-nitrophe...	169	C10H7N3	017082-32-5	45
3	[1,2,4]Triazolo[4,3-a]quinoline	169	C10H7N3	000235-06-3	45
4	Indole-1-carboxamide, 2,3-dihydr...	316	C19H12N2O3	1000263-96-7	40
5	Naphthalene, 1-isocyanato-	169	C11H7NO	000086-84-0	25





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Instrument : BNA_G
ClientSampleId : D9N40

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Quant Title : SVOA CALIBRATION

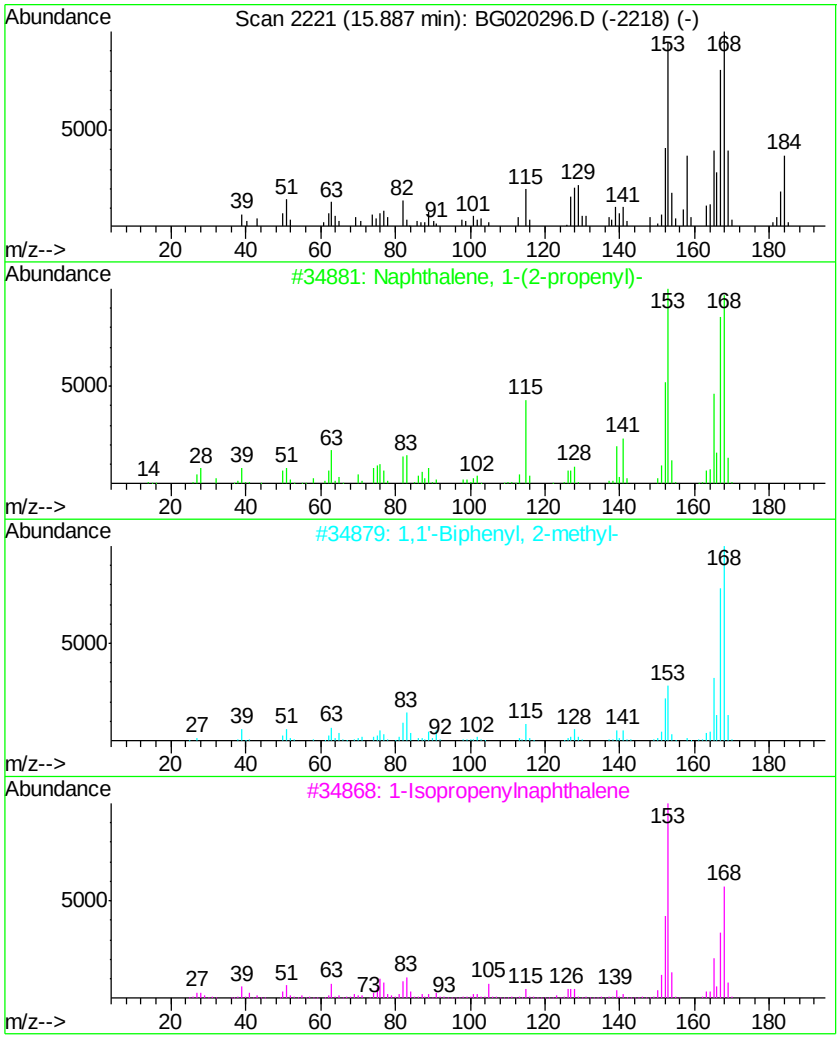
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

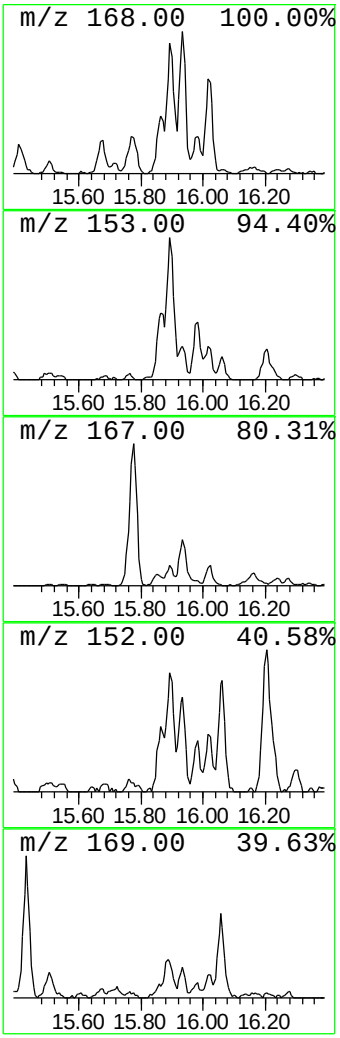
****

Peak Number 21 Naphthalene, 1-(2-propenyl)- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.89	14.76 ng/ul	179487	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-(2-propenyl)-	168	C13H12	002489-86-3	89
2	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	78
3	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	76
4	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	60
5	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	60





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ClientSampleId : D9N40

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Quant Title : SVOA CALIBRATION

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

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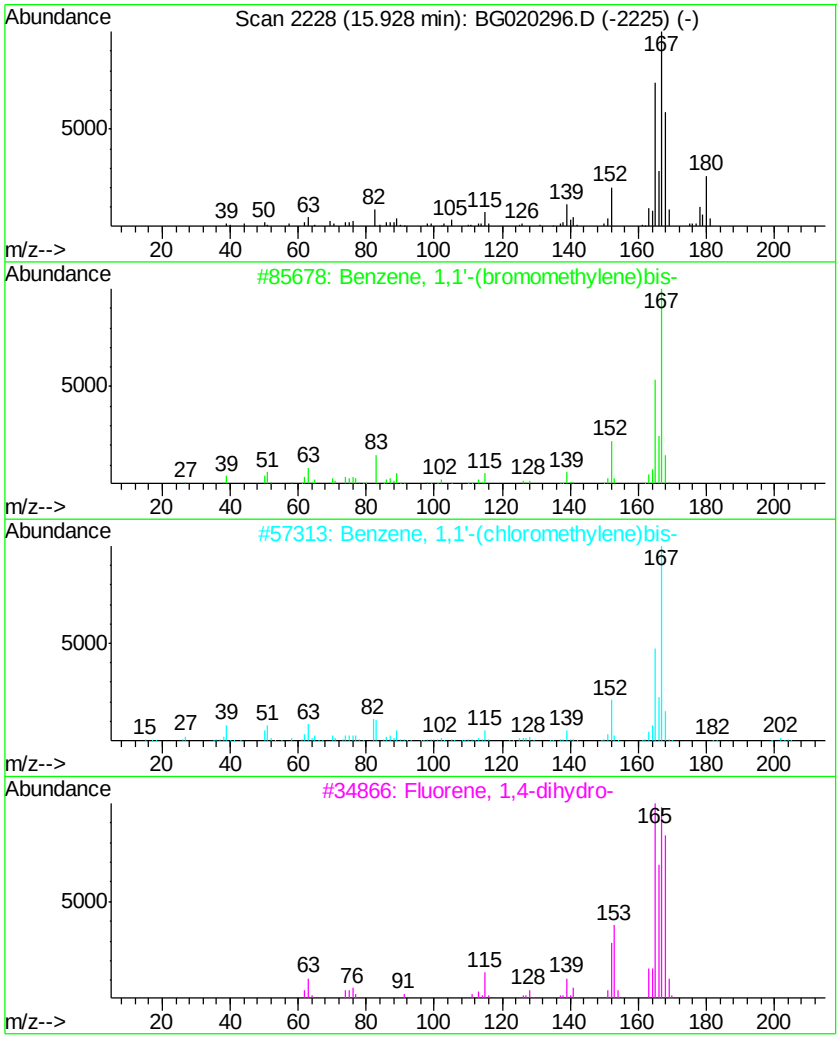
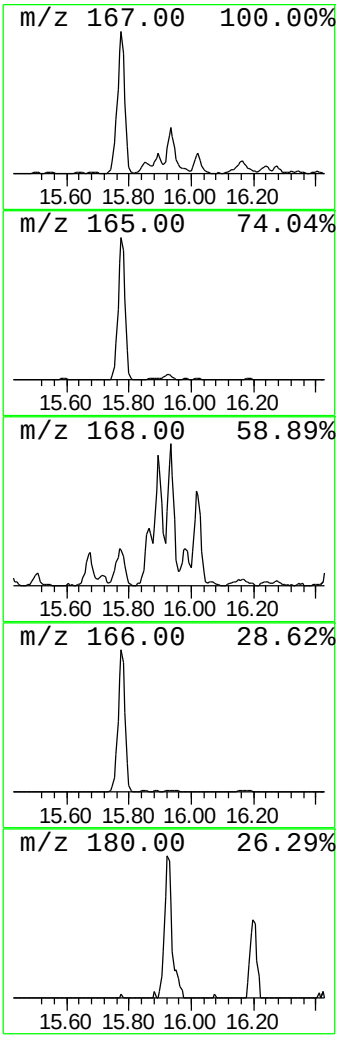
Peak Number 22 Benzene, 1,1'-(bromomethyle... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.93	16.33 ng/ul	198615	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,1'-(bromomethylene)bis-	246	C13H11Br	000776-74-9	59
2	Benzene, 1,1'-(chloromethylene)bis-	202	C13H11Cl	000090-99-3	47
3	Fluorene, 1,4-dihydro-	168	C13H12	041593-21-9	43
4	Nordiphenamid	225	C15H15NO	000954-21-2	43
5	Benzene, 1,1'-(chloromethylene)bis-	202	C13H11Cl	000090-99-3	38





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ClientSampleId : D9N40

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Quant Title : SVOA CALIBRATION

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

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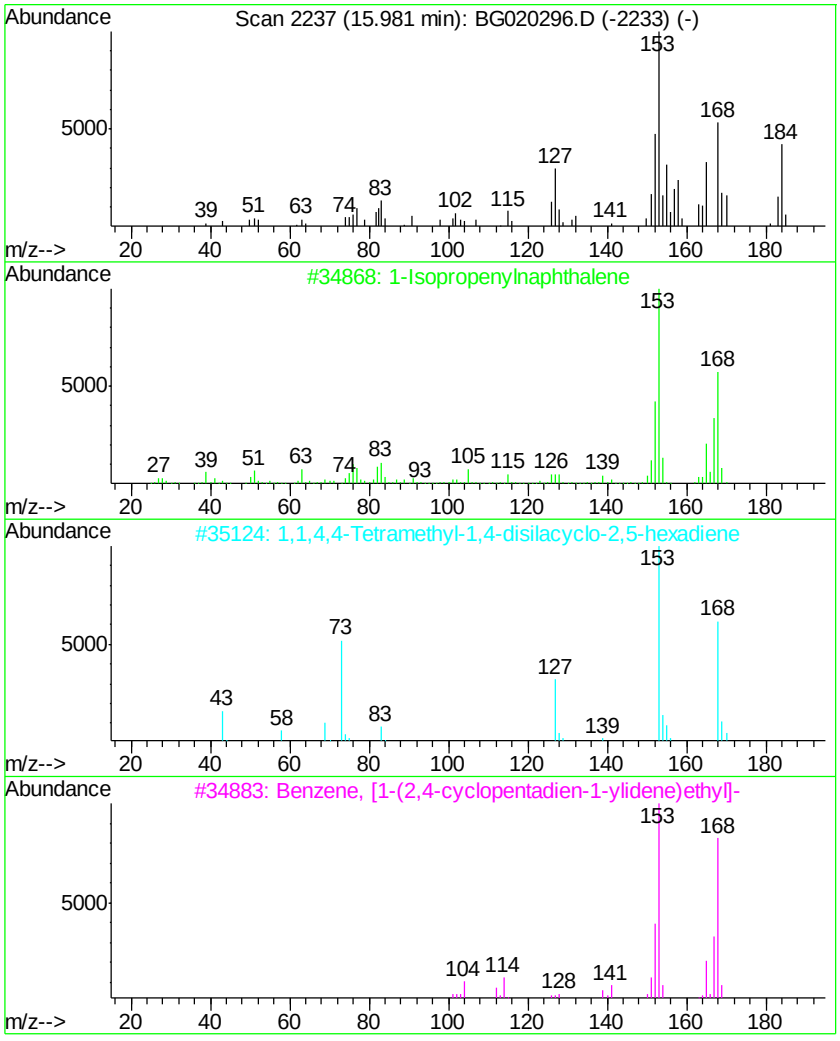
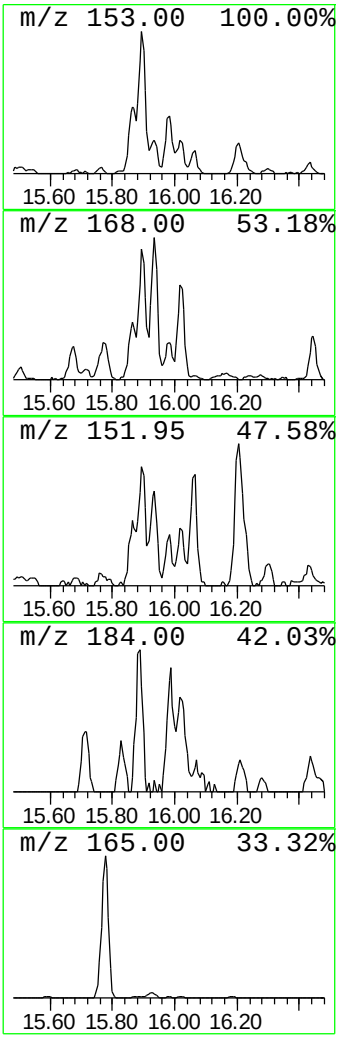
Peak Number 23 unknown-02 Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.98	7.74 ng/ul	94199	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	46
2	1,1,4,4-Tetramethyl-1,4-disilacy...	168	C8H16Si2	020627-53-6	43
3	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	38
4	(1R)-(-)-Thiocamphor	168	C10H16S	053402-10-1	38
5	Naphthalene, 2-(1-methylethenyl)-	168	C13H12	003710-23-4	38





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ClientSampleId : D9N40

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Quant Title : SVOA CALIBRATION

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

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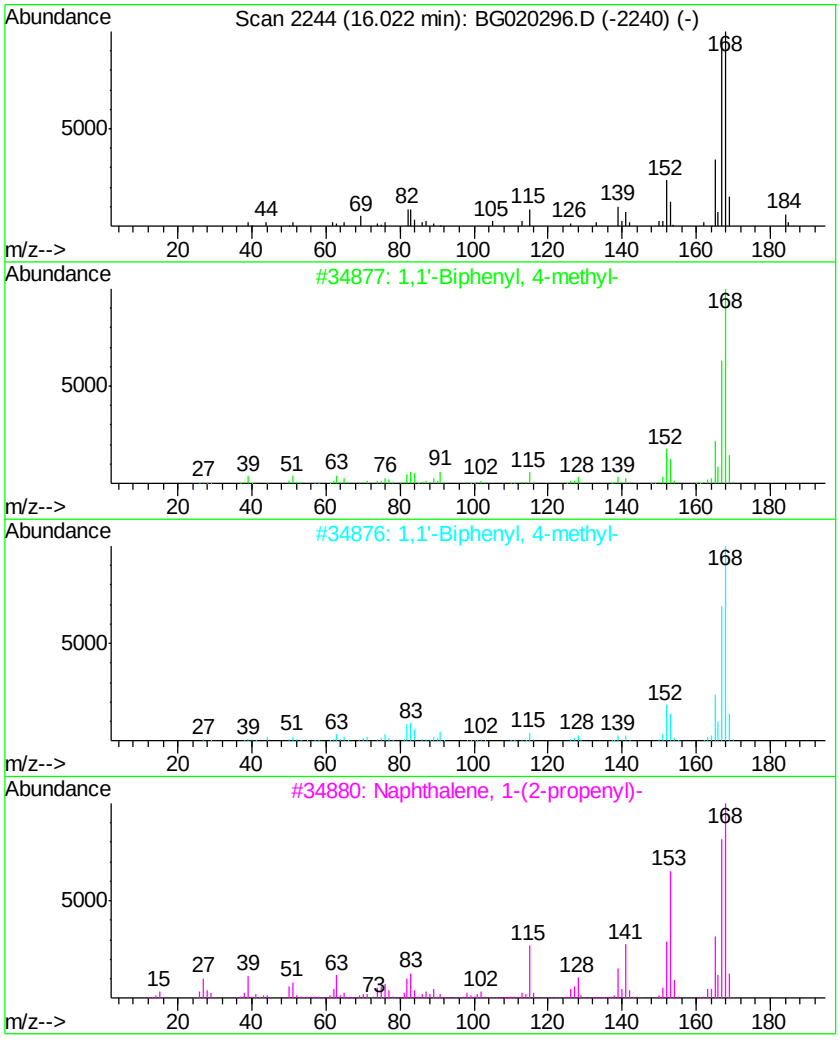
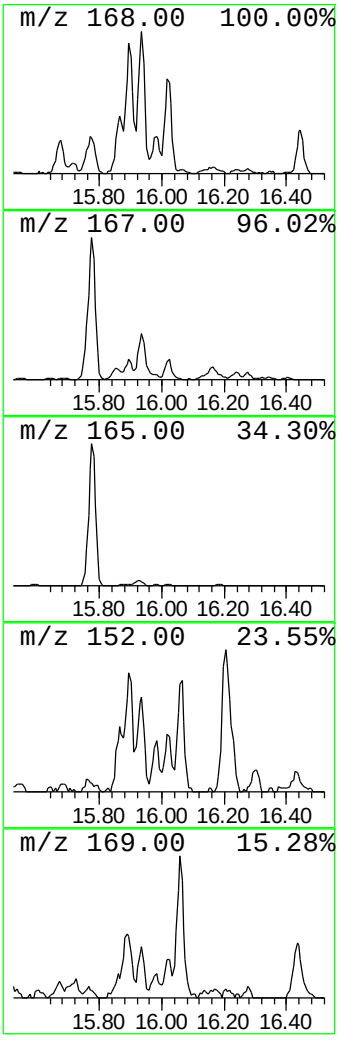
Peak Number 24 1,1'-Biphenyl, 4-methyl- Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.02	7.97 ng/ul	96964	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	87
2	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	83
3	Naphthalene, 1-(2-propenyl)-	168	C13H12	002489-86-3	83
4	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	81
5	1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	72





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ClientSampleId : D9N40

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Quant Title : SVOA CALIBRATION

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

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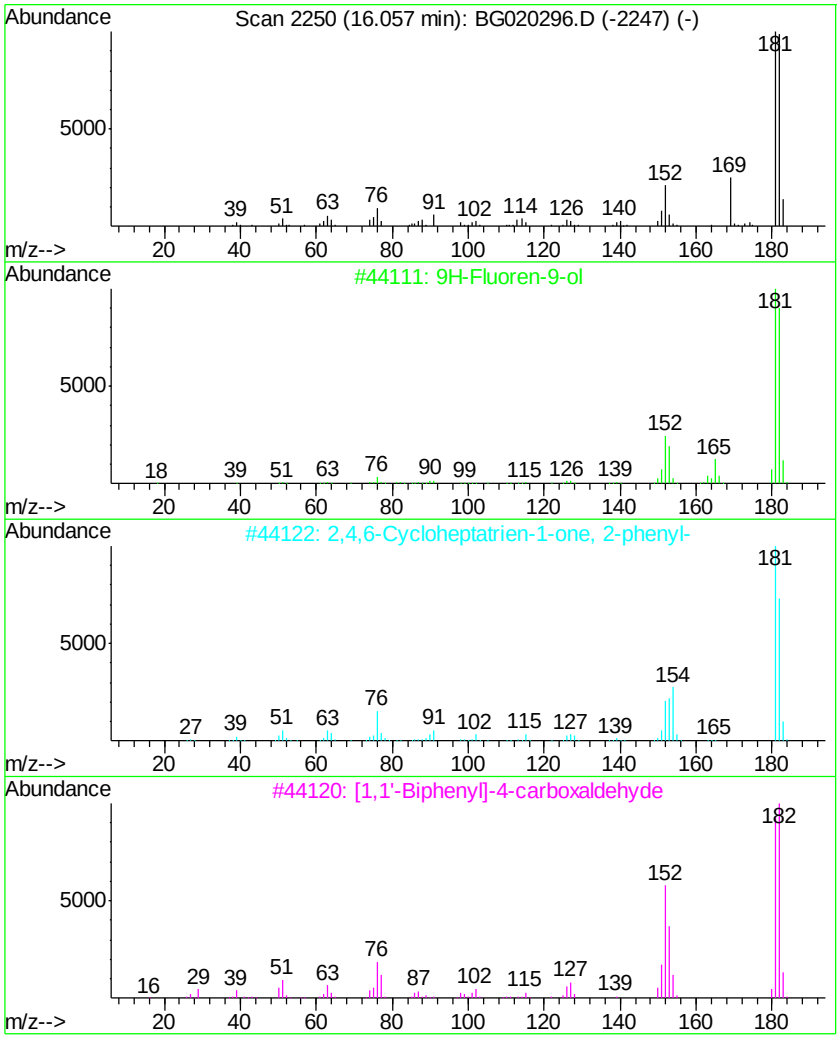
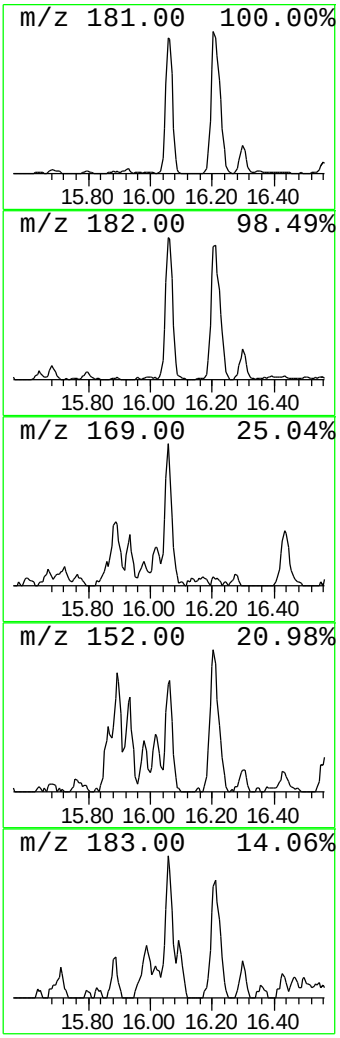
Peak Number 25 9H-Fluoren-9-ol Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.06	13.80 ng/ul	167911	Acenaphthene-d10	14.72

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	72
2	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	72
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	72
4	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	72
5	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	68





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Misc :
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Instrument : BNA_G
ClientSampleId : D9N40

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Quant Title : SVOA CALIBRATION

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

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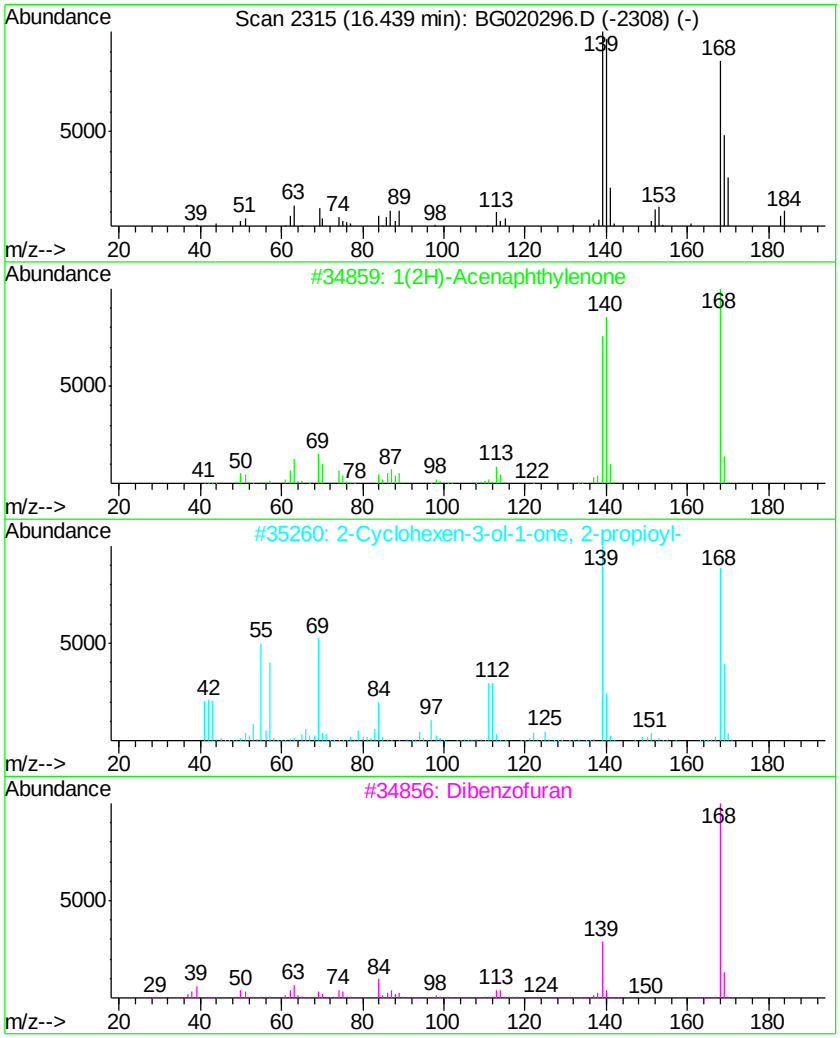
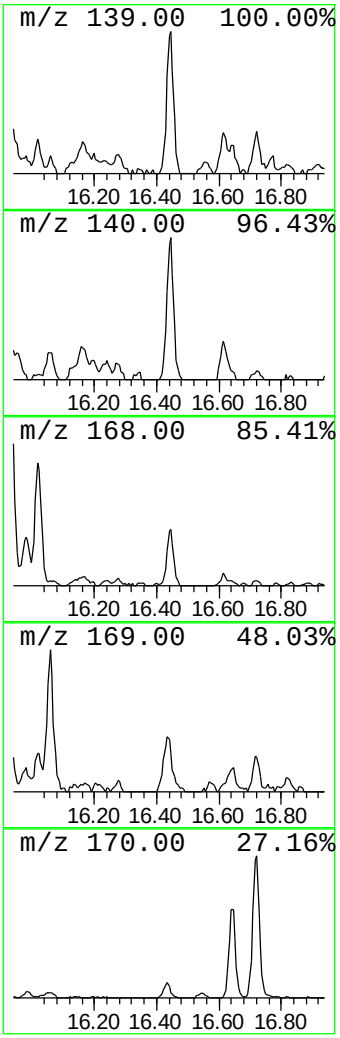
Peak Number 27 1(2H)-Acenaphthylenone Concentration Rank 47

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.44	3.69 ng/ul	64084	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1(2H)-Acenaphthylenone	168	C12H8O	002235-15-6	89
2	2-Cyclohexen-3-ol-1-one, 2-propi...	168	C9H12O3	062847-90-9	47
3	Dibenzofuran	168	C12H8O	000132-64-9	43
4	Cyclobuta[del]naphthalene	140	C11H8	024973-91-9	43
5	Dibenzofuran	168	C12H8O	000132-64-9	43





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Misc :
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Instrument : BNA_G
ClientSampleId : D9N40

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Quant Title : SVOA CALIBRATION

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

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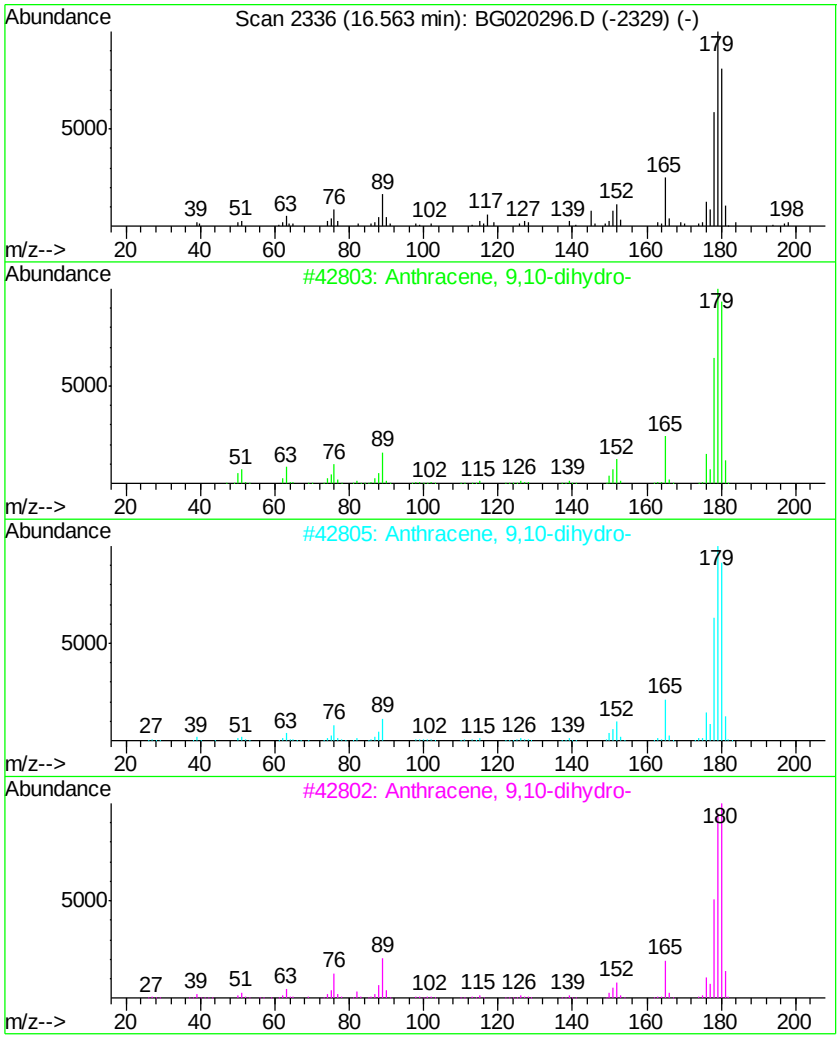
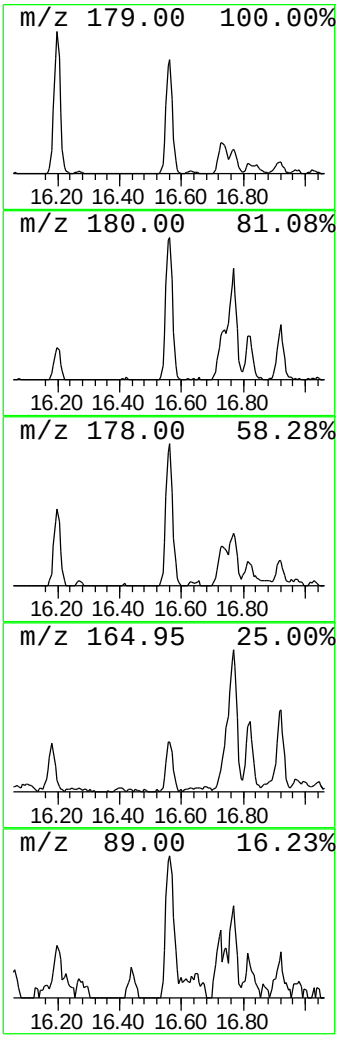
Peak Number 28 Anthracene, 9,10-dihydro- Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.56	7.14 ng/ul	123887	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	96
2	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	94
3	Anthracene, 9,10-dihydro-	180	C14H12	000613-31-0	92
4	Phenanthrene, 1,2-dihydro-	180	C14H12	056179-83-0	91
5	Phenanthrene, 9,10-dihydro-	180	C14H12	000776-35-2	83





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Quant Title : SVOA CALIBRATION

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

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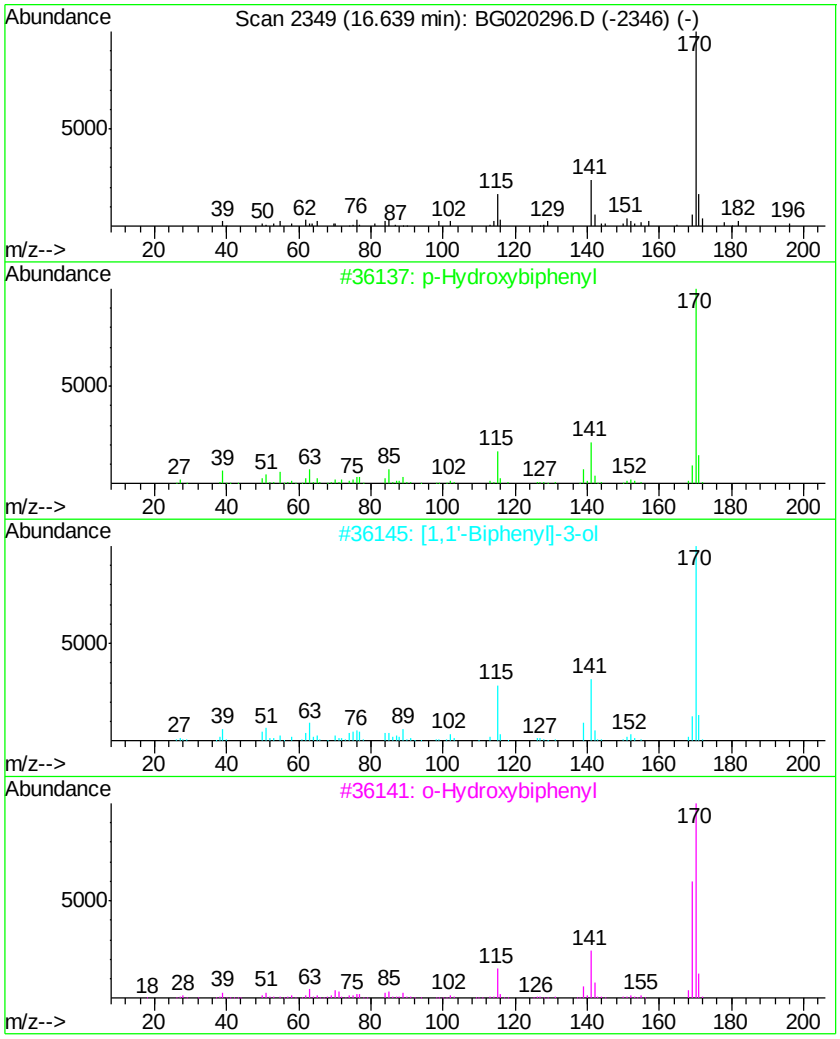
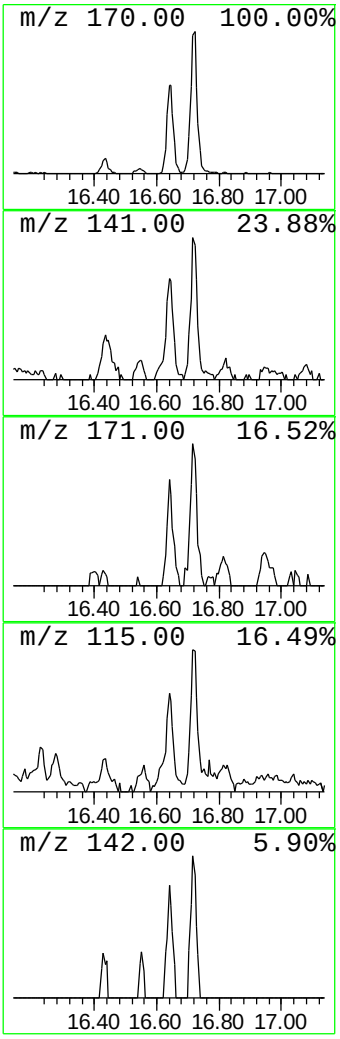
Peak Number 29 p-Hydroxybiphenyl Concentration Rank 46

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.64	3.73 ng/ul	64752	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Hydroxybiphenyl	170	C12H10O	000092-69-3	80
2	[1,1'-Biphenyl]-3-ol	170	C12H10O	000580-51-8	74
3	o-Hydroxybiphenyl	170	C12H10O	000090-43-7	72
4	o-Hydroxybiphenyl	170	C12H10O	000090-43-7	72
5	[1,1'-Biphenyl]-3-ol	170	C12H10O	000580-51-8	72





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Quant Title : SVOA CALIBRATION

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

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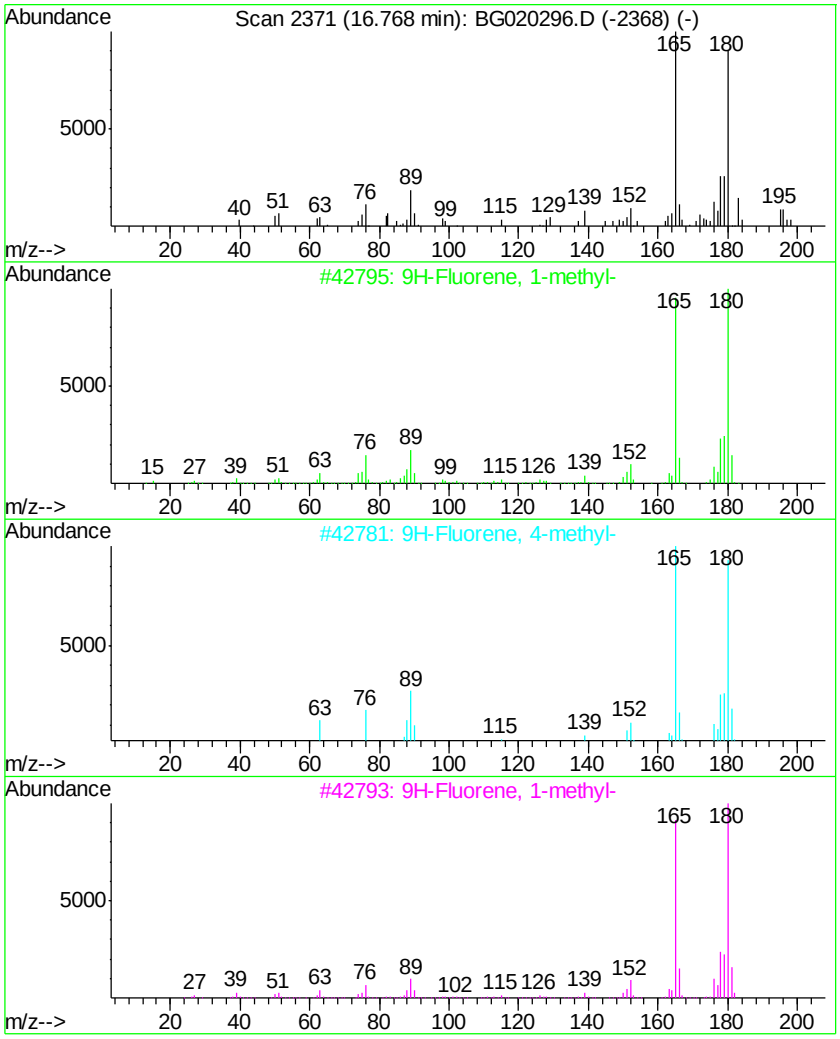
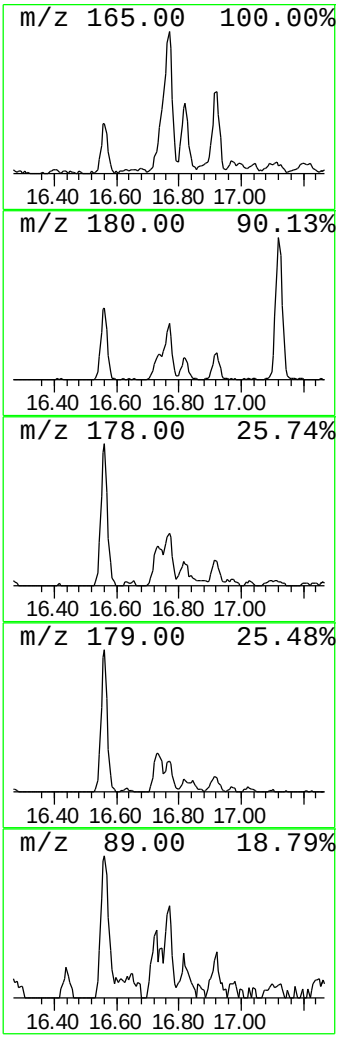
Peak Number 31 9H-Fluorene, 1-methyl- Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.77	5.03 ng/ul	87247	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	86
2	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	86
3	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	86
4	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	86
5	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	86





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Quant Title : SVOA CALIBRATION

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

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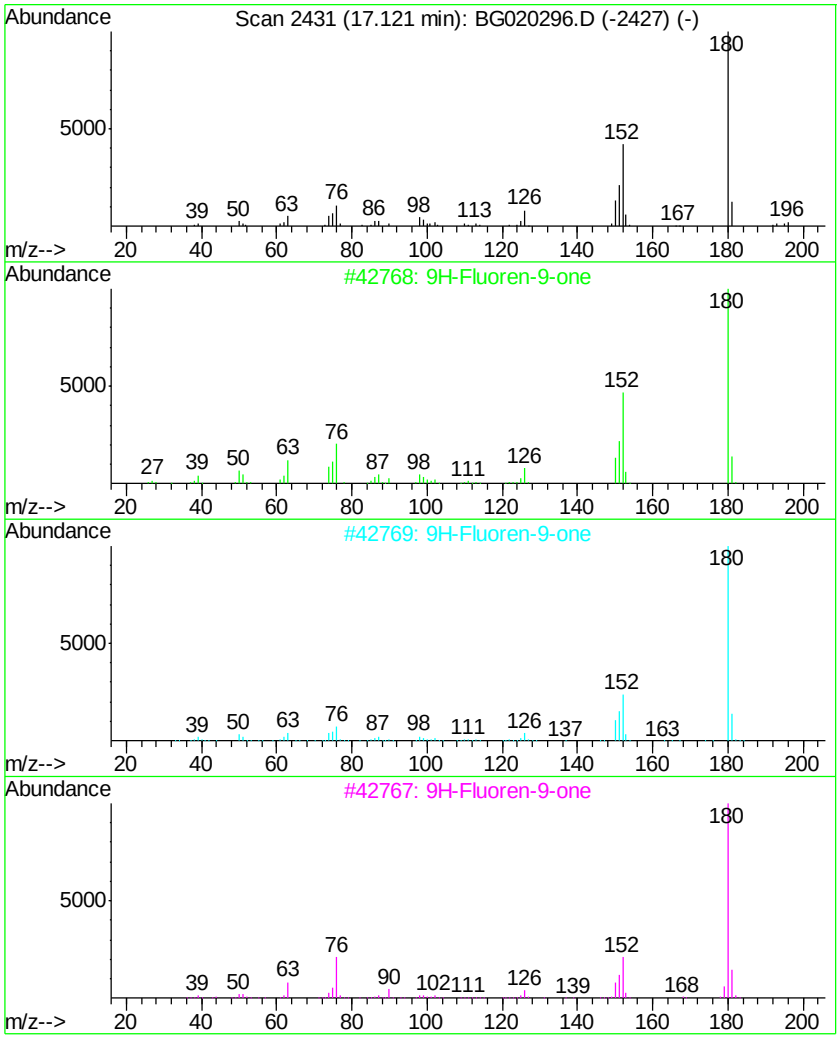
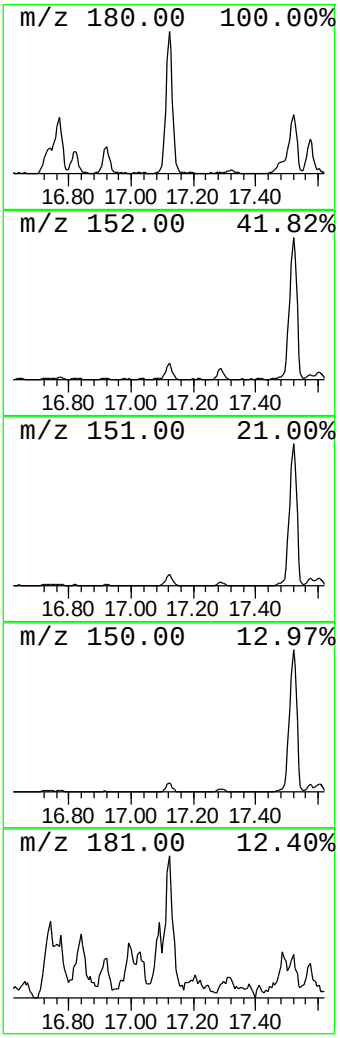
Peak Number 34 9H-Fluoren-9-one Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.12	7.28 ng/ul	126381	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	93
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	91
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	90
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	86





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ClientSampleId : D9N40

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

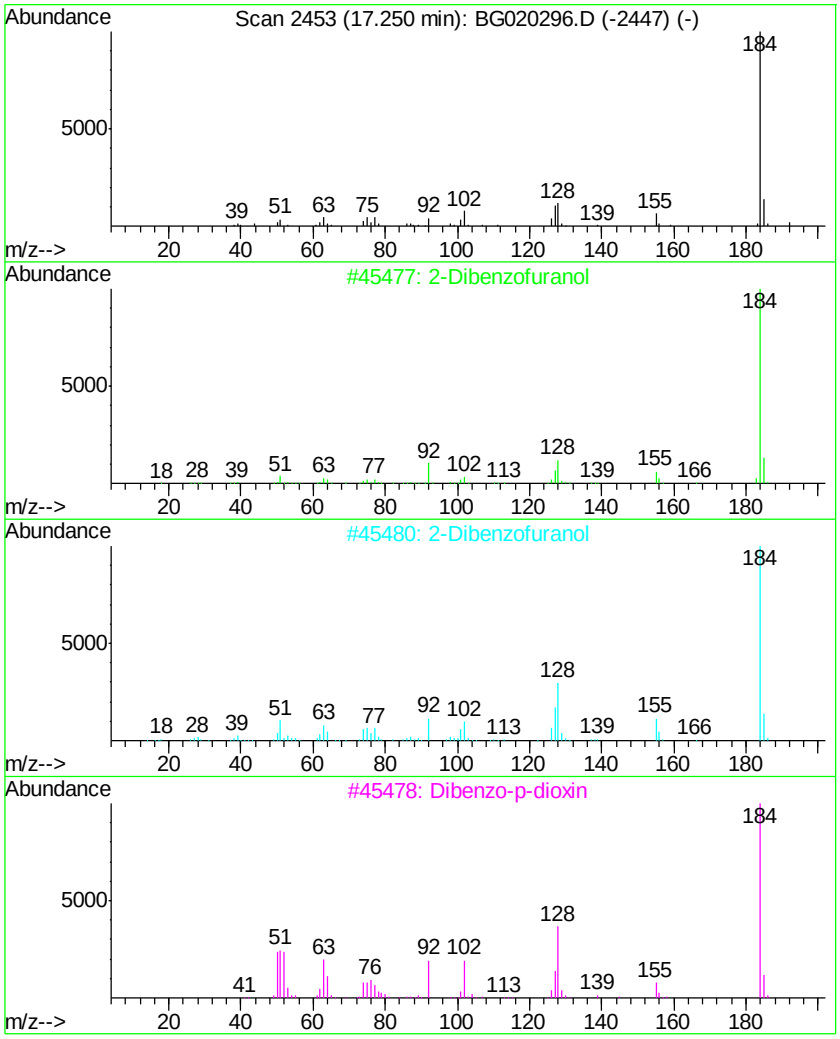
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

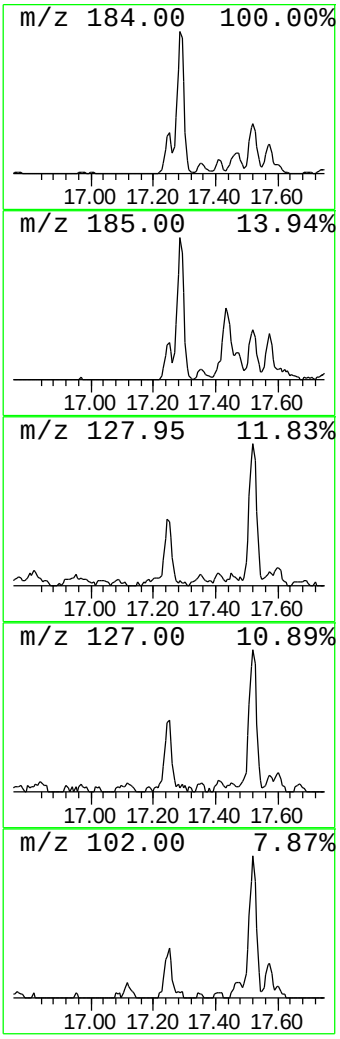
****

Peak Number 35 2-Dibenzofuranol Concentration Rank 45

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.25	4.26 ng/ul	73913	Phenanthrene-d10	17.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Dibenzofuranol	184	C12H8O2	000086-77-1	91
2	2-Dibenzofuranol	184	C12H8O2	000086-77-1	91
3	Dibenzo-p-dioxin	184	C12H8O2	000262-12-4	90
4	2-Dibenzofuranol	184	C12H8O2	000086-77-1	90
5	Dibenzo-p-dioxin	184	C12H8O2	000262-12-4	83





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG121915\
Data File : BG020296.D
Acq On : 19 Dec 2015 4:51
Operator : UM/SJ
Sample : G4768-16
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : D9N40

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
Butane, 2-methoxy...	3.20	8.2	ng/ul	40756	1	8.09	98917	20.0
Benzene, 1,1'-(1-...	8.47	11.8	ng/ul	58148	1	8.09	98917	20.0
Indene	8.63	111.6	ng/ul	552050	1	8.09	98917	20.0
Benzofuran, 7-met...	9.58	10.7	ng/ul	60099	2	10.92	112861	20.0
2,4-Dimethylstyrene	10.31	12.8	ng/ul	72269	2	10.92	112861	20.0
2-Benzothiophene #	11.09	67.0	ng/ul	378149	2	10.92	112861	20.0
3-Methylbenzothio...	12.46	10.4	ng/ul	58905	2	10.92	112861	20.0
Naphthalene, 1-et...	13.75	14.2	ng/ul	172136	3	14.72	243272	20.0
Naphthalene, 1,6-...	13.90	18.3	ng/ul	221948	3	14.72	243272	20.0
1,4-Naphthalenedione	13.97	3.3	ng/ul	40479	3	14.72	243272	20.0
Naphthalene, 2,7-...	14.04	24.3	ng/ul	295023	3	14.72	243272	20.0
Naphthalene, 2,3-...	14.28	8.5	ng/ul	103196	3	14.72	243272	20.0
2-Naphthalenecarb...	14.86	56.5	ng/ul	687058	3	14.72	243272	20.0
o-Hydroxybiphenyl	14.99	9.7	ng/ul	117692	3	14.72	243272	20.0
unknown-01	15.03	9.4	ng/ul	114768	3	14.72	243272	20.0
1,3-Phenylene, bi...	15.20	10.2	ng/ul	123950	3	14.72	243272	20.0
Naphthalene, 2,3,...	15.33	3.5	ng/ul	42343	3	14.72	243272	20.0
Benz[cd]indol-2(1...	15.43	3.6	ng/ul	44305	3	14.72	243272	20.0
Naphthalene, 1-(2...	15.89	14.8	ng/ul	179487	3	14.72	243272	20.0
Benzene, 1,1'-(br...	15.93	16.3	ng/ul	198615	3	14.72	243272	20.0
unknown-02	15.98	7.7	ng/ul	94199	3	14.72	243272	20.0
1,1'-Biphenyl, 4-...	16.02	8.0	ng/ul	96964	3	14.72	243272	20.0
9H-Fluoren-9-ol	16.06	13.8	ng/ul	167911	3	14.72	243272	20.0
1(2H)-Acenaphthyl...	16.44	3.7	ng/ul	64084	4	17.47	347127	20.0
Anthracene, 9,10-...	16.56	7.1	ng/ul	123887	4	17.47	347127	20.0
p-Hydroxybiphenyl	16.64	3.7	ng/ul	64752	4	17.47	347127	20.0
9H-Fluorene, 1-me...	16.77	5.0	ng/ul	87247	4	17.47	347127	20.0
9H-Fluoren-9-one	17.12	7.3	ng/ul	126381	4	17.47	347127	20.0
2-Dibenzofuranol	17.25	4.3	ng/ul	73913	4	17.47	347127	20.0