LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111418\
Data File : BG038010.D
Acq On : 14 Nov 2018 23:34
Operator : JU/SJ
Sample : J5889-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BOTTOM-B

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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\8270-BG111318.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.628	391	398	406	rVB2	787753	1356918	7.80%	0.560%
2	6.697	574	580	587	rVB3	392030	930472	5.35%	0.384%
3	7.038	633	638	643	rVV2	365858	712789	4.10%	0.294%
4	7.226	661	670	677	rVV3	871194	2660981	15.29%	1.099%
5	7.614	729	736	742	rVB2	813813	1511616	8.69%	0.624%
6	7.720	749	754	760	rBV	545878	952359	5.47%	0.393%
7	7.972	787	797	801	rBV5	263251	756155	4.34%	0.312%
8	8.025	801	806	812	rVB	1078253	1738958	9.99%	0.718%
9	8.102	812	819	829	rVB6	285118	938510	5.39%	0.388%
10	8.190	829	834	839	rBV3	338325	771550	4.43%	0.319%
11	8.354	857	862	866	rBV2	504970	834038	4.79%	0.344%
12	8.407	866	871	877	rVB	657033	1140277	6.55%	0.471%
13	8.578	893	900	903	rBV2	481470	1039684	5.97%	0.429%
14	8.631	903	909	917	rVB3	758237	1893613	10.88%	0.782%
15	8.713	917	923	930	rBV2	1329731	2394921	13.76%	0.989%
16	8.819	935	941	947	rBV2	483301	914418	5.25%	0.378%
17	8.918	952	958	963	rBV2	533037	1023988	5.88%	0.423%
18	9.030	971	977	982	rBV2	328963	716988	4.12%	0.296%
19	9.177	991	1002	1011	rBV3	1182010	3303871	18.98%	1.364%
20	9.265	1011	1017	1025	rVB3	1088917	2158338	12.40%	0.891%
21	9.430	1032	1045	1052	rVB10	624911	2029257	11.66%	0.838%
22	9.535	1052	1063	1071	rBV4	544761	1590325	9.14%	0.657%
23	9.706	1086	1092	1098	rVB2	875417	1604479	9.22%	0.663%
24	9.770	1098	1103	1106	rVV2	609651	1154837	6.64%	0.477%
25	9.806	1106	1109	1118	rVB3	859842	1683537	9.67%	0.695%
26	9.999	1137	1142	1148	rVB3	890897	1632349	9.38%	0.674%
27	10.070	1148	1154	1159	rBV4	1132762	2263835	13.01%	0.935%
28	10.205	1172	1177	1181	rBV2	425053	722871	4.15%	0.299%
29	10.287	1186	1191	1197	rBV2	1113199	2109241	12.12%	0.871%
30	10.393	1205	1209	1213	rVB2	554627	826559	4.75%	0.341%
31	10.464	1213	1221	1227	rVB4	380236	986502	5.67%	0.407%
32	10.587	1237	1242	1248	rVB2	567145	1132757	6.51%	0.468%
33	10.957	1301	1305	1310	rVB3	742248	1251079	7.19%	0.517%
34	11.022	1310	1316	1323	rVB2	2741482	5644724	32.43%	2.331%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111418\
Data File : BG038010.D
Acq On : 14 Nov 2018 23:34
Operator : JU/SJ
Sample : J5889-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BOTTOM-B

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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\8270-BG111318.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.098	1323	1329	1335	rBV5	633202	1533199	8.81%	0.633%
36	11.304	1360	1364	1369	rVV5	300315	681260	3.91%	0.281%
37	11.368	1369	1375	1381	rVB3	947421	1869291	10.74%	0.772%
38	11.586	1402	1412	1422	rVB8	1339435	3896856	22.39%	1.609%
39	11.709	1428	1433	1441	rVB7	649604	1490705	8.56%	0.616%
40	11.809	1442	1450	1455	rVB5	744941	1819871	10.46%	0.751%
41	11.891	1456	1464	1468	rBV	3403680	5900650	33.90%	2.437%
42	11.933	1468	1471	1476	rVB3	500907	769076	4.42%	0.318%
43	12.085	1492	1497	1503	rVB3	1150497	2121661	12.19%	0.876%
44	12.156	1503	1509	1514	rBV5	491774	1109451	6.37%	0.458%
45	12.220	1516	1520	1525	rVB2	438110	703959	4.04%	0.291%
46	12.285	1526	1531	1539	rBV7	556097	1697490	9.75%	0.701%
47	12.502	1564	1568	1573	rVB3	912592	1550253	8.91%	0.640%
48	12.567	1573	1579	1584	rVB	2199909	3726097	21.41%	1.539%
49	12.690	1596	1600	1603	rBV2	450013	769033	4.42%	0.318%
50	12.790	1611	1617	1624	rVB2	2308634	5324840	30.59%	2.199%
51	12.914	1634	1638	1642	rBV4	474114	795170	4.57%	0.328%
52	12.984	1646	1650	1654	rVB2	812864	1208252	6.94%	0.499%
53	13.066	1659	1664	1668	rVV6	545929	1091652	6.27%	0.451%
54	13.231	1686	1692	1697	rBV	3855463	6619175	38.03%	2.733%
55	13.349	1708	1712	1721	rVB3	1104858	2138671	12.29%	0.883%
56	13.495	1731	1737	1742	rBV2	2383319	4663238	26.79%	1.926%
57	13.660	1761	1765	1771	rVB2	987151	1819088	10.45%	0.751%
58	13.760	1778	1782	1789	rVB	1422289	2449255	14.07%	1.011%
59	13.913	1799	1808	1813	rVB	3011832	7848699	45.09%	3.241%
60	14.054	1826	1832	1837	rBV	3294135	7193480	41.33%	2.970%
61	14.106	1837	1841	1845	rVV2	2362804	4051229	23.28%	1.673%
62	14.142	1845	1847	1849	rVV	1506780	1896106	10.89%	0.783%
63	14.177	1849	1853	1858	rVB2	5975218	9028156	51.87%	3.728%
64	14.230	1858	1862	1866	rBV3	845965	1295410	7.44%	0.535%
65	14.289	1867	1872	1876	rBV3	1843064	3019015	17.35%	1.247%
66	14.453	1895	1900	1905	rBV3	1751633	3288246	18.89%	1.358%
67	14.494	1905	1907	1911	rVV2	700654	1045222	6.01%	0.432%
68	14.547	1911	1916	1922	rVB3	1413464	2477720	14.24%	1.023%
69	14.688	1932	1940	1950	rBV8	1184986	4132472	23.74%	1.706%
70	14.794	1951	1958	1964	rVV6	698567	1994715	11.46%	0.824%
71	14.929	1975	1981	1989	rBV2	1931460	4541076	26.09%	1.875%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111418\
Data File : BG038010.D
Acq On : 14 Nov 2018 23:34
Operator : JU/SJ
Sample : J5889-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BOTTOM-B

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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\8270-BG111318.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	15.011	1991	1995	2003	rVV4	764187	1744661	10.02%	0.720%
73	15.088	2003	2008	2010	rVV	1289145	2147045	12.34%	0.887%
74	15.123	2010	2014	2021	rVV2	2391750	4129604	23.73%	1.705%
75	15.199	2022	2027	2035	rVB2	2760564	4574665	26.28%	1.889%
76	15.340	2045	2051	2056	rBV	2040794	4237917	24.35%	1.750%
77	15.393	2056	2060	2064	rVB	1363035	2060887	11.84%	0.851%
78	15.511	2072	2080	2083	rBV2	1687959	4041665	23.22%	1.669%
79	15.540	2083	2085	2089	rVB	755499	986413	5.67%	0.407%
80	15.763	2118	2123	2127	rBV3	836644	1454284	8.36%	0.601%
81	15.940	2144	2153	2157	rBV	5083594	9610767	55.22%	3.969%
82	16.034	2165	2169	2175	rBV6	715149	1661182	9.54%	0.686%
83	16.216	2196	2200	2206	rBV5	1073977	2025893	11.64%	0.837%
84	16.280	2207	2211	2215	rVB2	682653	1046528	6.01%	0.432%
85	16.427	2229	2236	2242	rBV2	9084767	17404836	100.00%	7.187%
86	16.574	2257	2261	2265	rVB	707310	1045055	6.00%	0.432%
87	16.739	2285	2289	2292	rBV6	481546	918389	5.28%	0.379%
88	16.833	2301	2305	2309	rBV3	1008419	1502506	8.63%	0.620%
89	17.238	2369	2374	2378	rBV	3694382	5429063	31.19%	2.242%
90	17.520	2418	2422	2426	rBV	953131	1426815	8.20%	0.589%
91	17.667	2437	2447	2451	rBV4	893736	2626802	15.09%	1.085%
92	17.837	2472	2476	2480	rBV	776812	1171491	6.73%	0.484%
93	18.349	2559	2563	2567	rBV	885726	1383885	7.95%	0.571%
94	18.396	2567	2571	2576	rVB	1165991	1833988	10.54%	0.757%
95	18.531	2590	2594	2599	rBV3	629753	923673	5.31%	0.381%
96	19.077	2681	2687	2691	rVB4	534148	1140893	6.56%	0.471%
97	19.253	2712	2717	2722	rBV	1033000	1674447	9.62%	0.691%
98	20.070	2851	2856	2860	rVB	1585120	2127645	12.22%	0.879%
99	21.750	3135	3142	3151	rVB	454792	823254	4.73%	0.340%
100	25.064	3687	3706	3720	rVB3	276430	1068386	6.14%	0.441%

Sum of corrected areas: 242165174

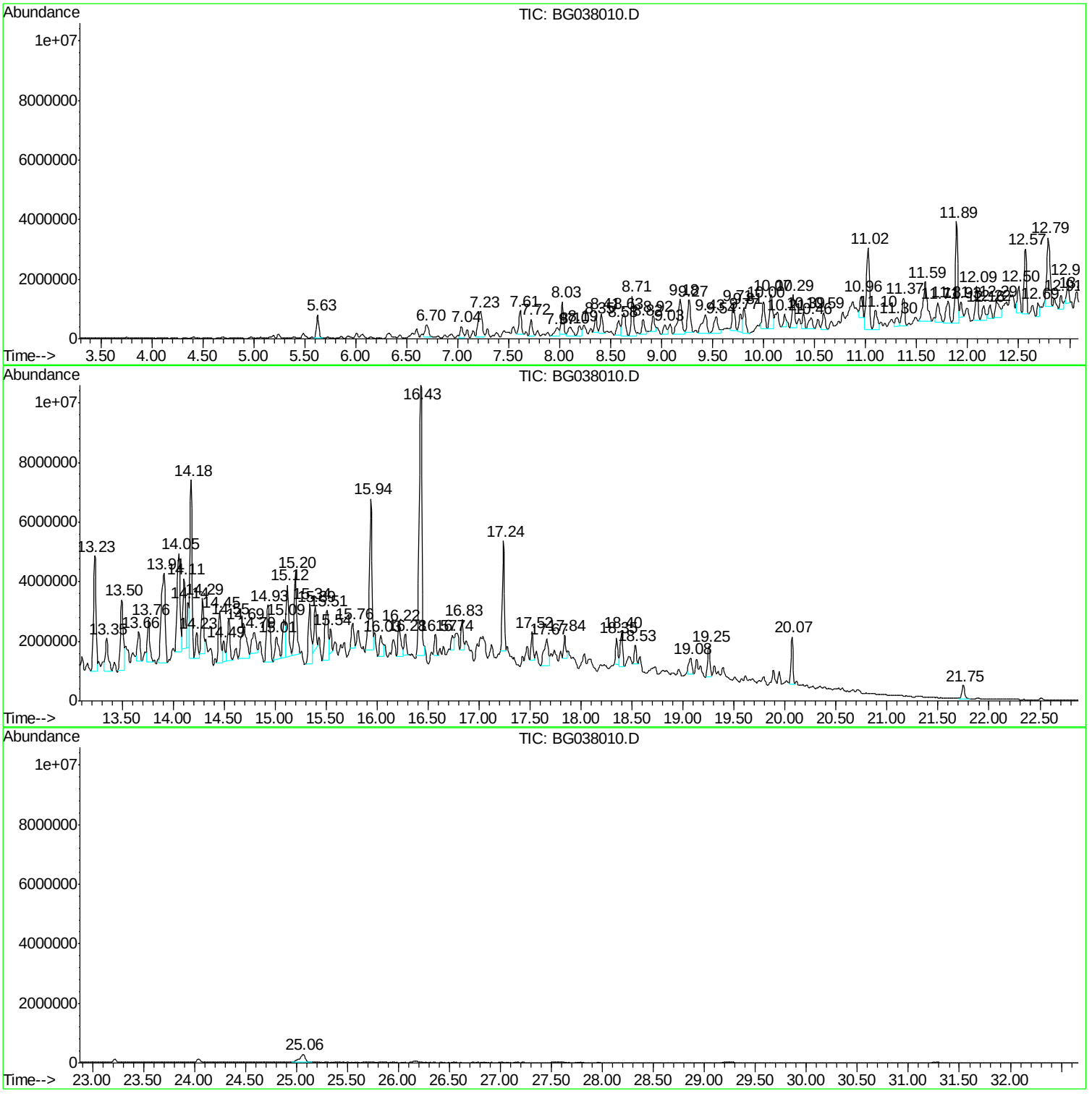
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111418\
Data File : BG038010.D
Acq On : 14 Nov 2018 23:34
Operator : JU/SJ
Sample : J5889-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
BOTTOM-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG111318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111418\
Data File : BG038010.D
Acq On : 14 Nov 2018 23:34
Operator : JU/SJ
Sample : J5889-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BOTTOM-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG111318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

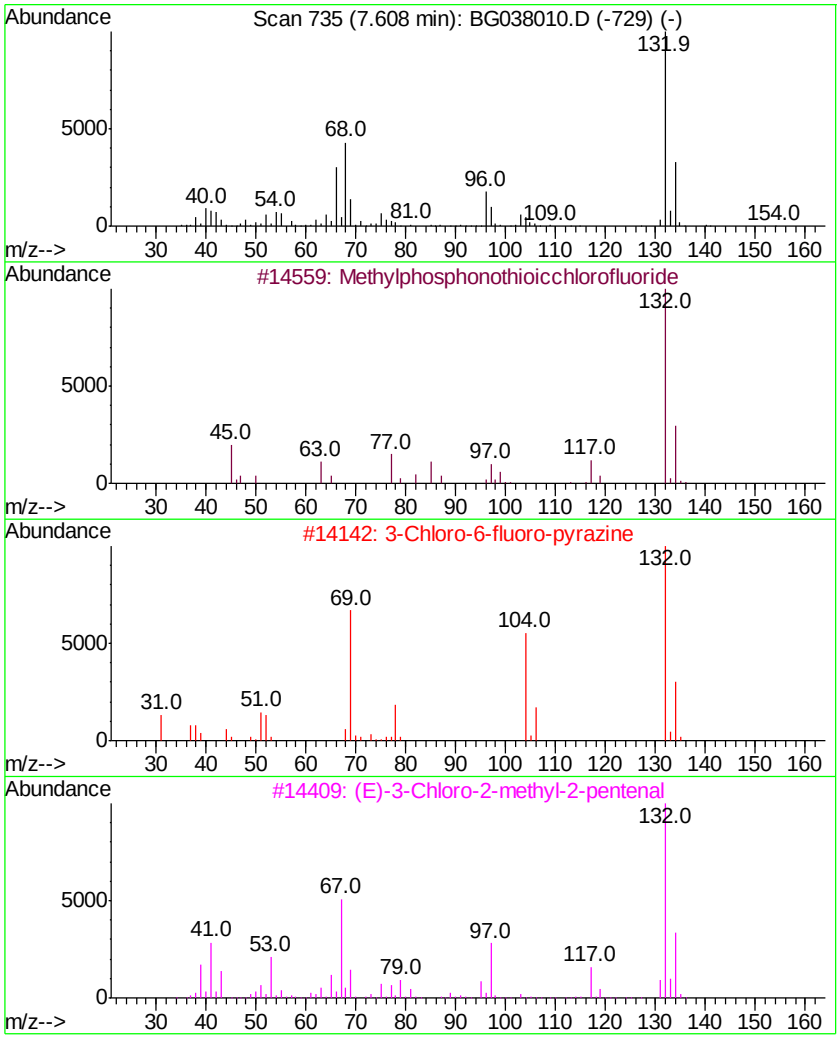
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

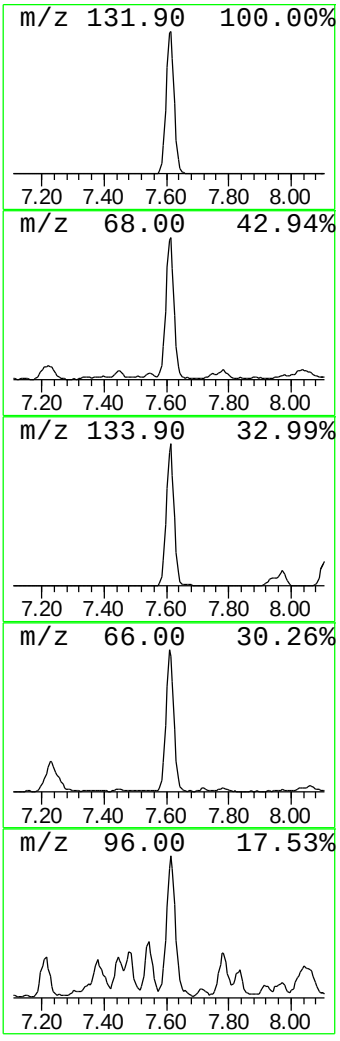
****

Peak Number 1 unknown7.61 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.61	32.21 ng	1511620	1,4-Dichlorobenzene-d4	8.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methylphosphonothioicchlorofluoride	132	CH3ClFPS	027127-27-1	27
2	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
3	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	12
4	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
5	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	12





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111418\
Data File : BG038010.D
Acq On : 14 Nov 2018 23:34
Operator : JU/SJ
Sample : J5889-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BOTTOM-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG111318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

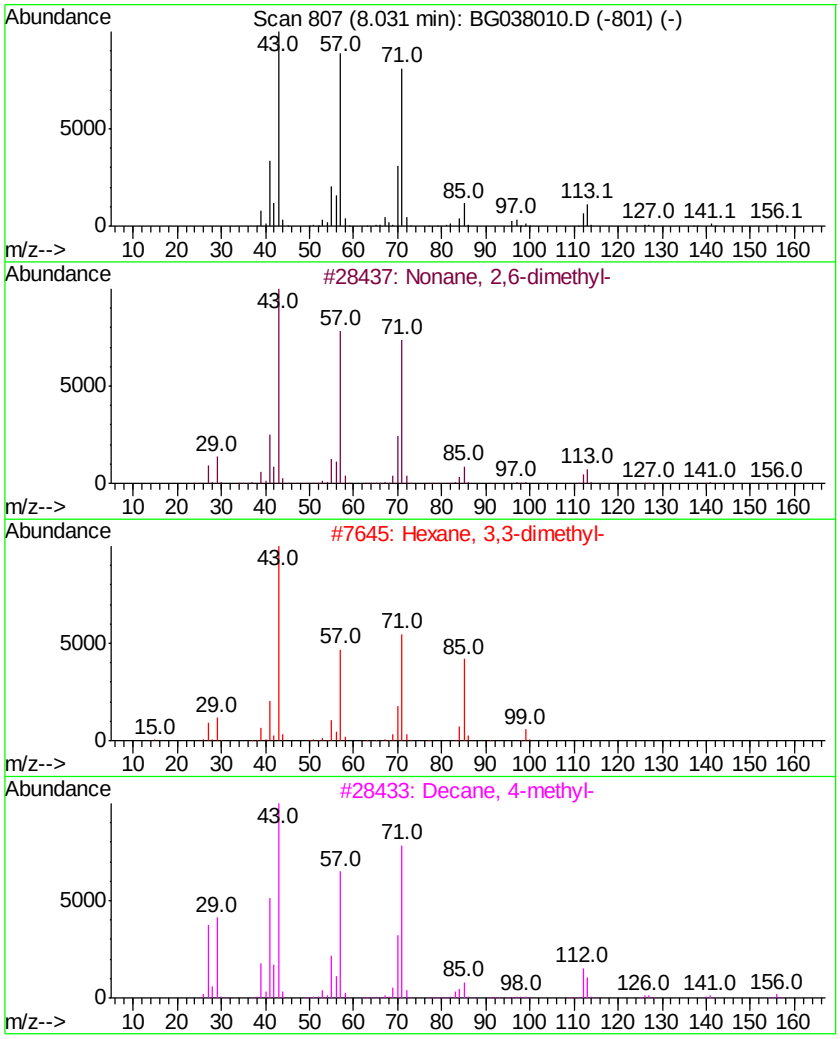
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

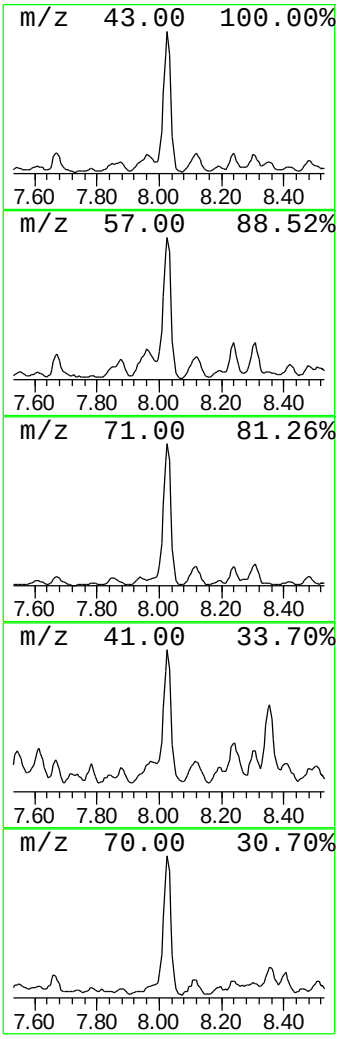
****

Peak Number 2 Nonane, 2,6-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.03	37.06 ng	1738960	1,4-Dichlorobenzene-d4	8.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane, 2,6-dimethyl-	156	C11H24	017302-28-2	90
2	Hexane, 3,3-dimethyl-	114	C8H18	000563-16-6	86
3	Decane, 4-methyl-	156	C11H24	002847-72-5	78
4	Heptane, 5-ethyl-2-methyl-	142	C10H22	013475-78-0	78
5	Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	72





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111418\
Data File : BG038010.D
Acq On : 14 Nov 2018 23:34
Operator : JU/SJ
Sample : J5889-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BOTTOM-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG111318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

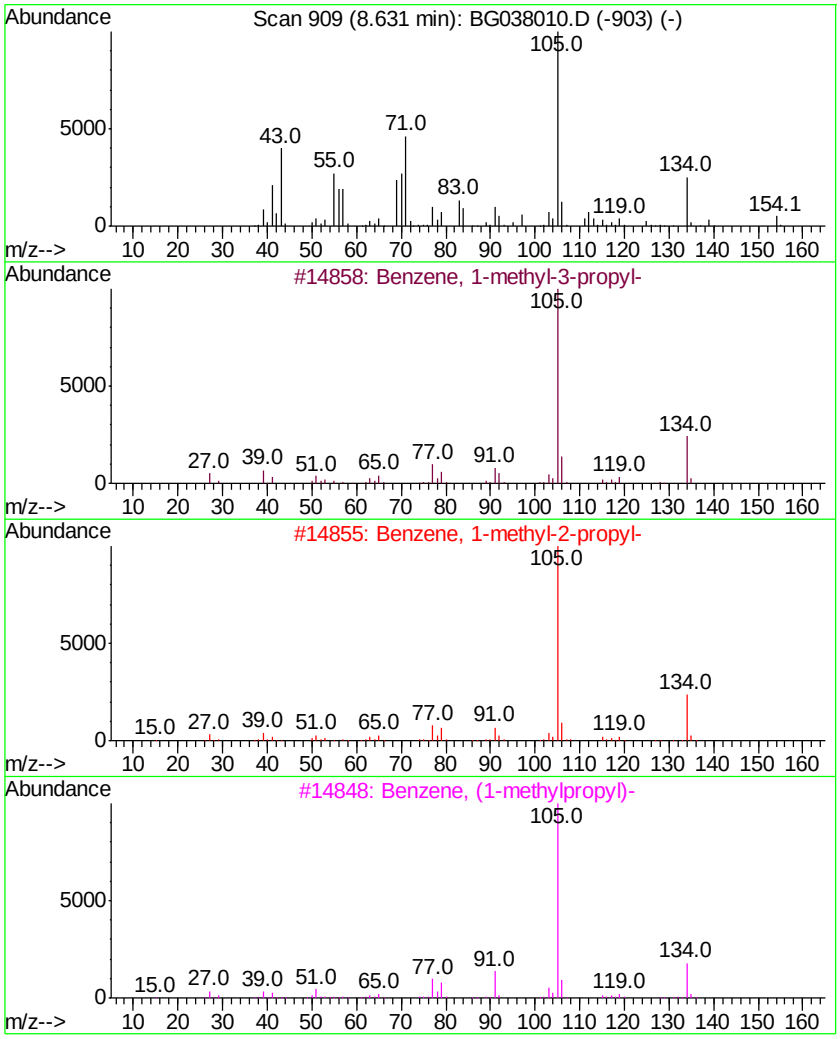
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

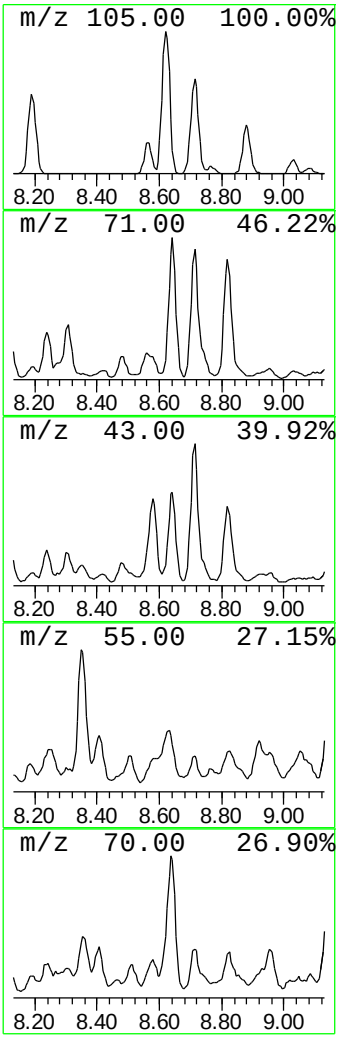
****

Peak Number 3 Benzene, 1-methyl-3-propyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.63	40.35 ng	1893610	1,4-Dichlorobenzene-d4	8.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	83
2	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	80
3	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	42
4	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	38
5	Benzeneacetaldehyde, .alpha.-met...	134	C9H10O	000093-53-8	30





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111418\
Data File : BG038010.D
Acq On : 14 Nov 2018 23:34
Operator : JU/SJ
Sample : J5889-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BOTTOM-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG111318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

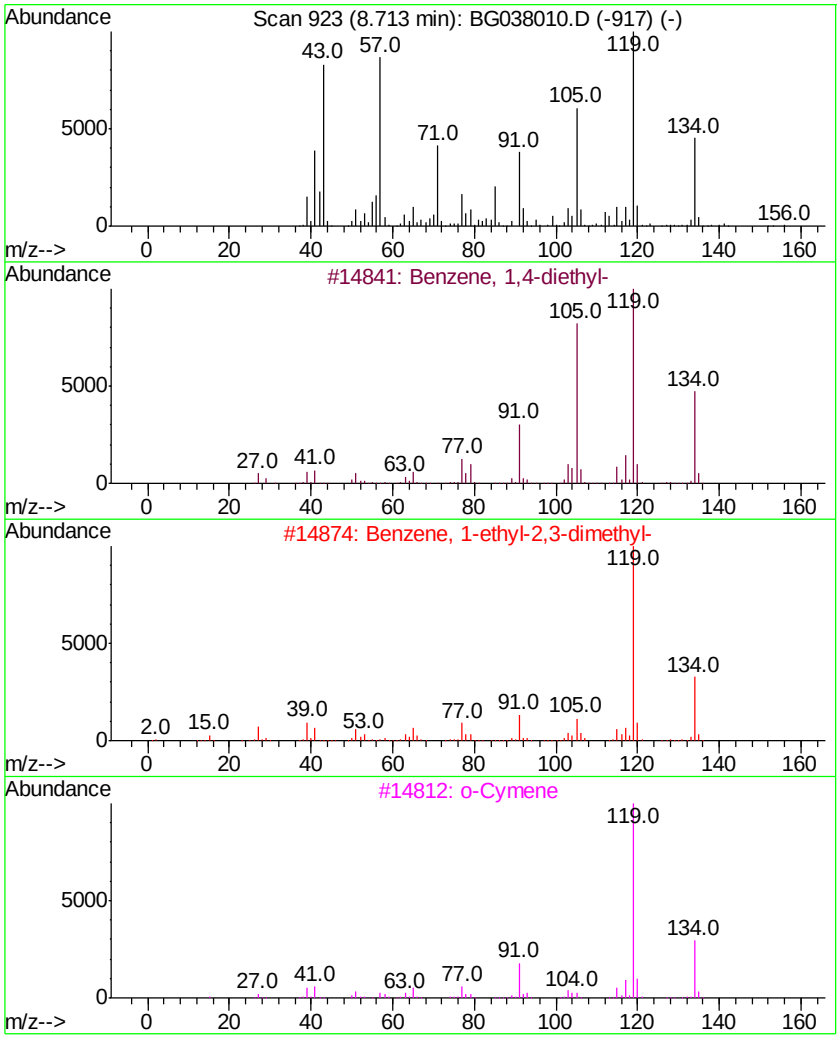
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

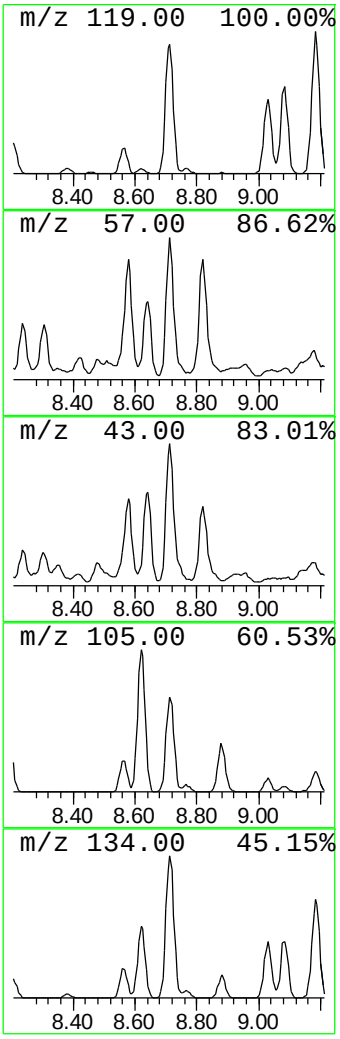
****

Peak Number 4 Benzene, 1,4-diethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.71	51.04 ng	2394920	1,4-Dichlorobenzene-d4	8.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,4-diethyl-	134	C10H14	000105-05-5	92
2	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	90
3	o-Cymene	134	C10H14	000527-84-4	83
4	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	83
5	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	78





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111418\
Data File : BG038010.D
Acq On : 14 Nov 2018 23:34
Operator : JU/SJ
Sample : J5889-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BOTTOM-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG111318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

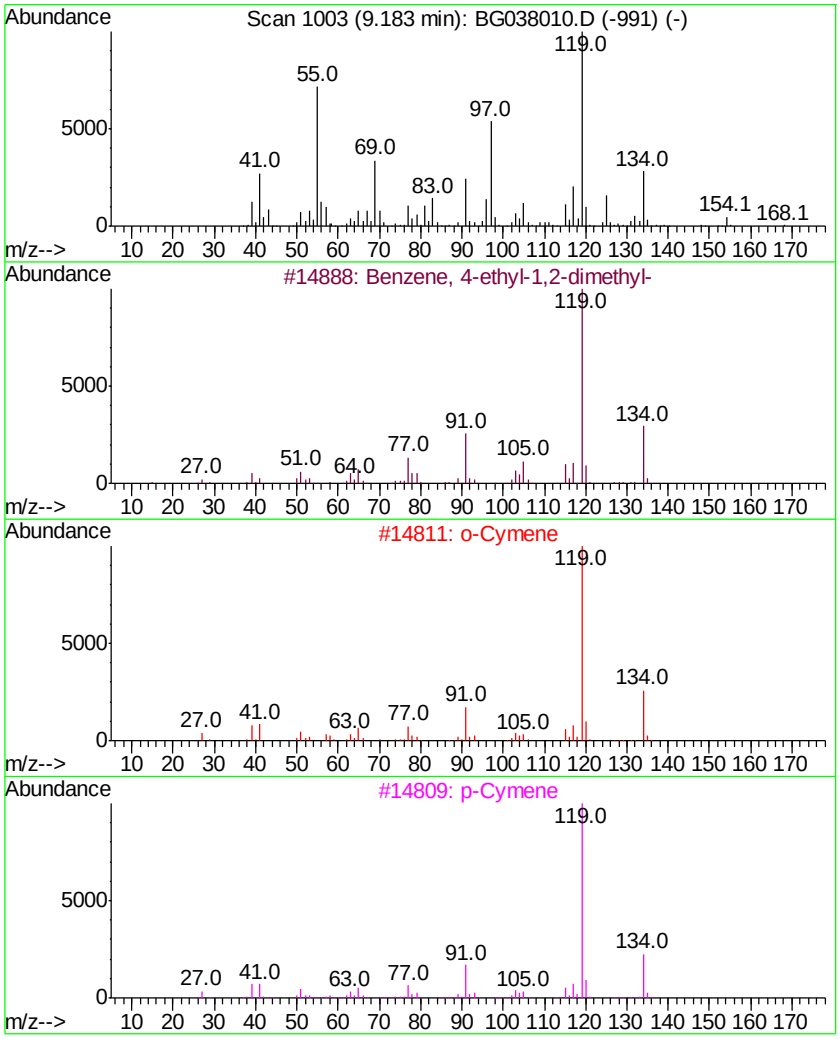
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

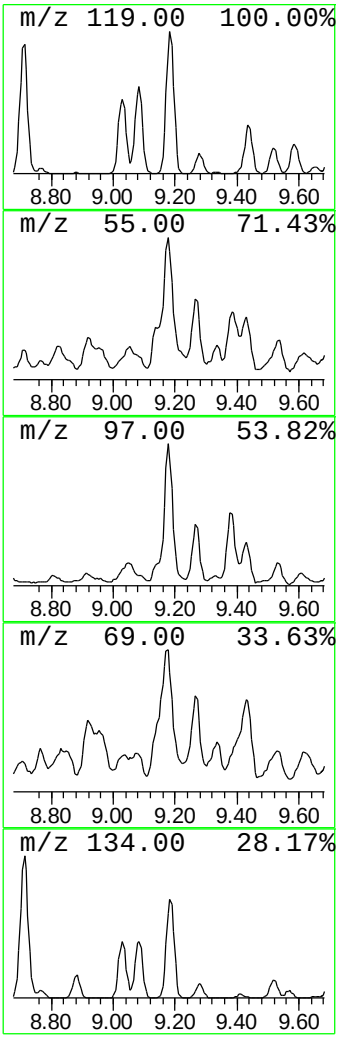
****

Peak Number 5 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.18	70.41 ng	3303870	1,4-Dichlorobenzene-d4	8.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	95
2	o-Cymene	134	C10H14	000527-84-4	91
3	p-Cymene	134	C10H14	000099-87-6	91
4	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	90
5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	90





Library Search Compound Report

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Data File : BG038010.D
Acq On : 14 Nov 2018 23:34
Operator : JU/SJ
Sample : J5889-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BOTTOM-B

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

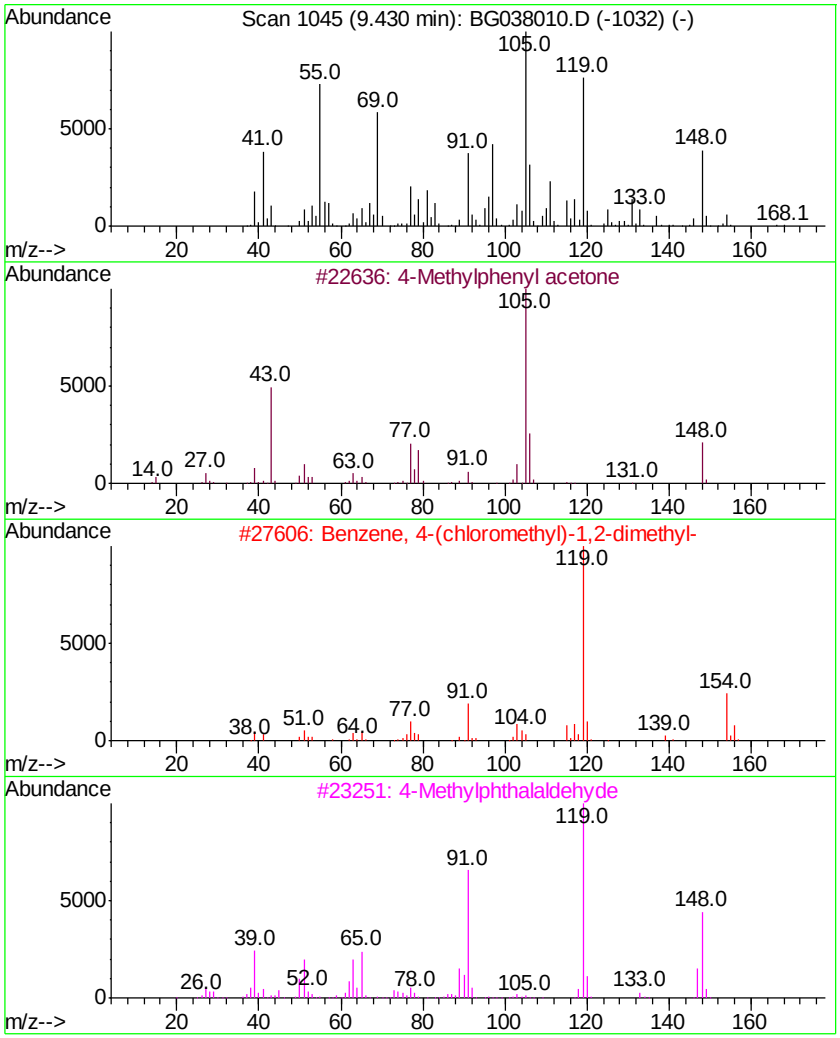
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

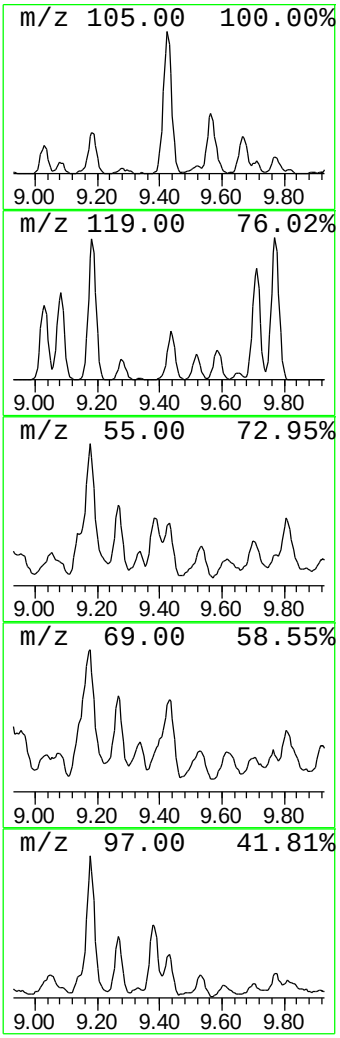
****

Peak Number 6 unknown9.43 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.43	43.24 ng	2029260	1,4-Dichlorobenzene-d4	8.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Methylphenyl acetone	148	C10H12O	002096-86-8	38
2	Benzene, 4-(chloromethyl)-1,2-di...	154	C9H11Cl	000102-46-5	38
3	4-Methylphthalaldehyde	148	C9H8O2	015158-36-8	35
4	Benzene, 1-methyl-4-(2-methylpro...	148	C11H16	005161-04-6	30
5	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	30





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Sample : J5889-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BOTTOM-B

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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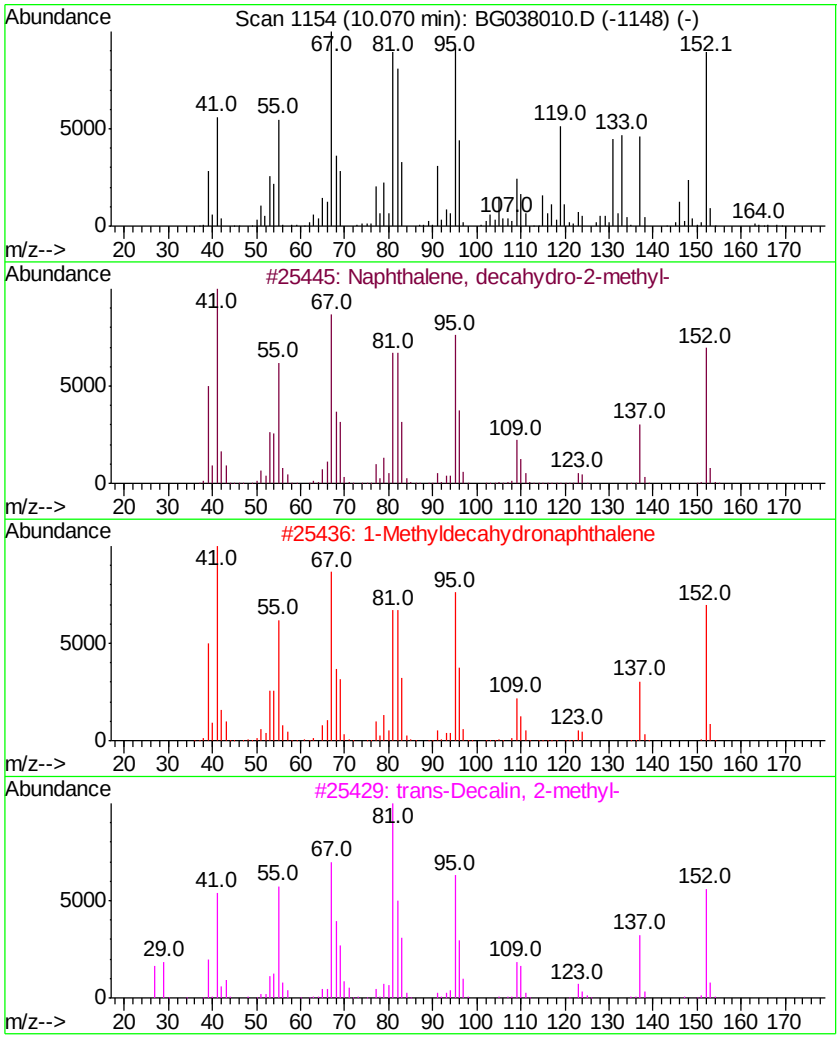
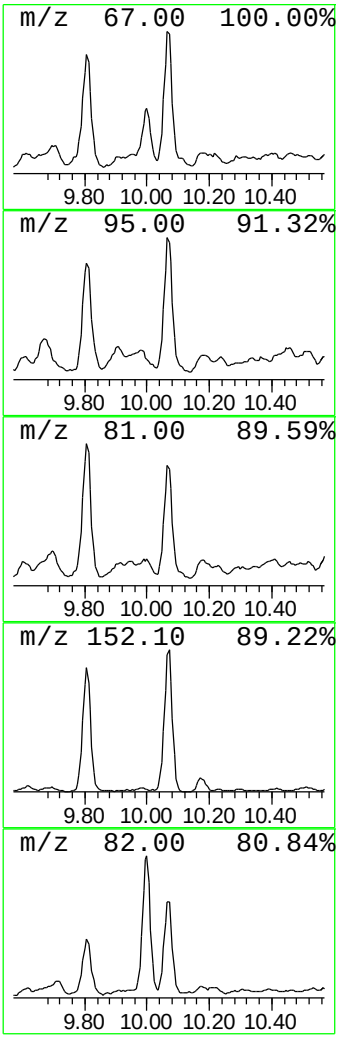
Peak Number 7 Naphthalene, decahydro-2-me... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.07	36.19 ng	2263840	Naphthalene-d8	10.91

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, decahydro-2-methyl-	152	C11H20	002958-76-1	97
2	1-Methyldecahydronaphthalene	152	C11H20	002958-75-0	97
3	trans-Decalin, 2-methyl-	152	C11H20	1000152-47-3	64
4	Decalin, syn-1-methyl-, cis-	152	C11H20	1000158-89-1	58
5	Spiro[5.5]undecane	152	C11H20	000180-43-8	50





Library Search Compound Report

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Acq On : 14 Nov 2018 23:34
Operator : JU/SJ
Sample : J5889-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BOTTOM-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG111318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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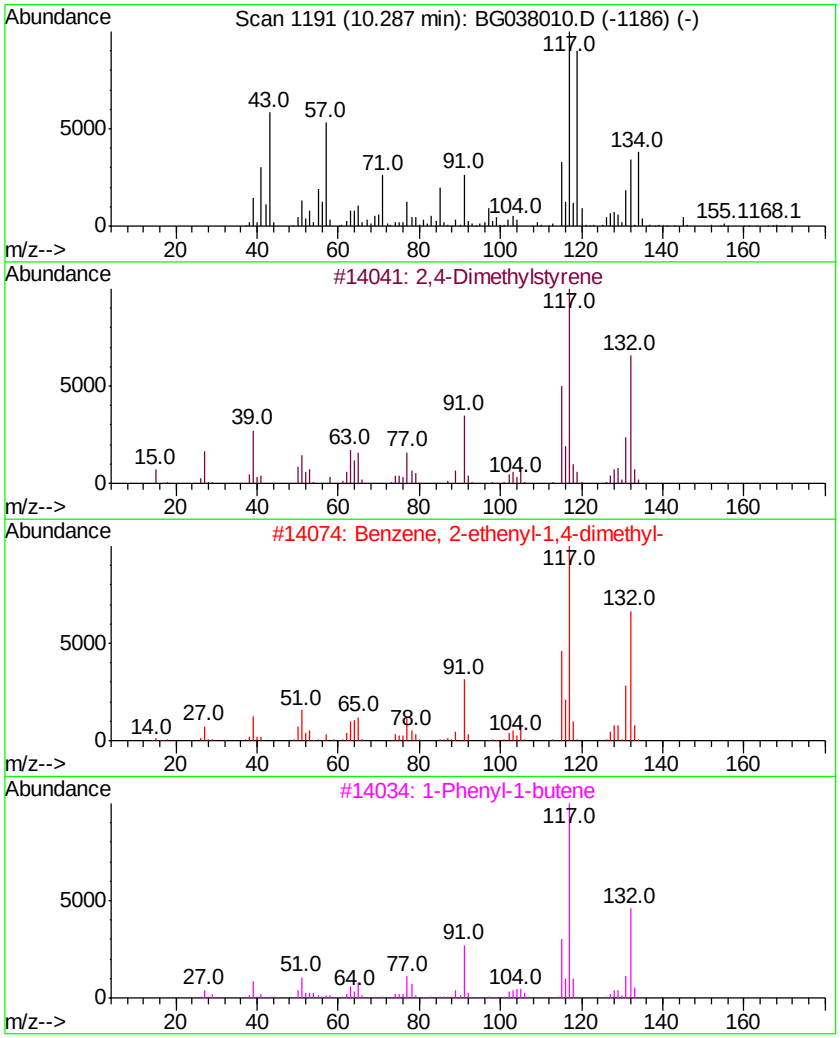
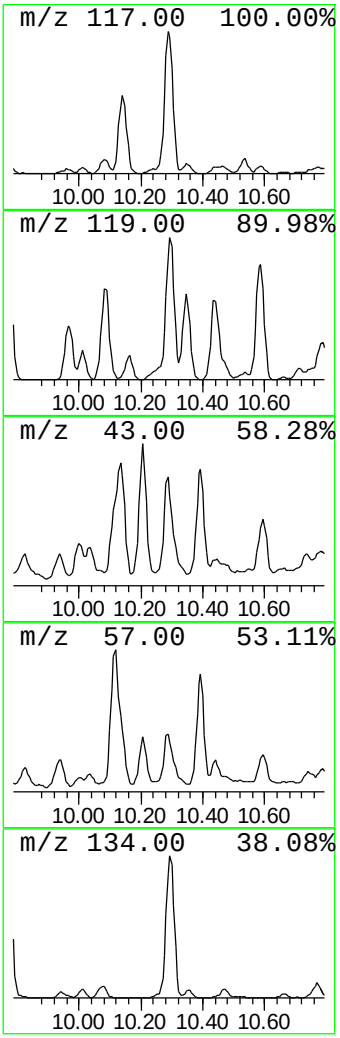
Peak Number 8 2,4-Dimethylstyrene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.29	33.72 ng	2109240	Naphthalene-d8	10.91

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4-Dimethylstyrene	132	C10H12	002234-20-0	74
2	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	74
3	1-Phenyl-1-butene	132	C10H12	000824-90-8	64
4	o-Cymene	134	C10H14	000527-84-4	50
5	3-Phenylbut-1-ene	132	C10H12	000934-10-1	50





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Acq On : 14 Nov 2018 23:34
Operator : JU/SJ
Sample : J5889-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BOTTOM-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG111318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

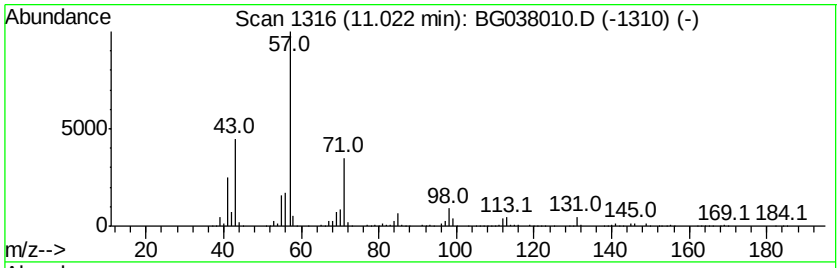
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

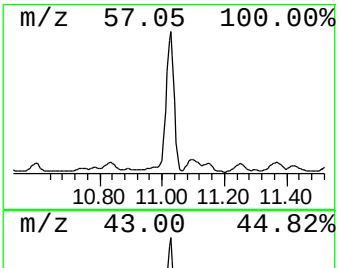
****

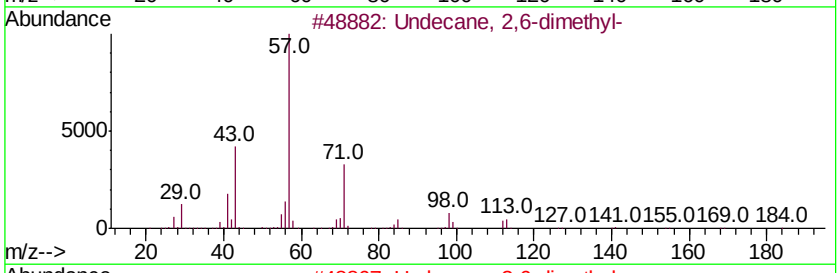
Peak Number 9 Undecane, 2,6-dimethyl- Concentration Rank 3

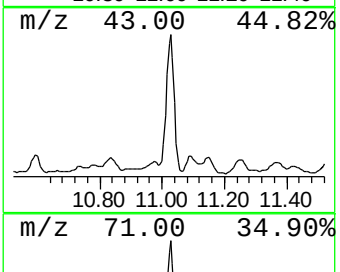
R.T.	EstConc	Area	Relative to ISTD	R.T.
11.02	90.24 ng	5644720	Naphthalene-d8	10.91

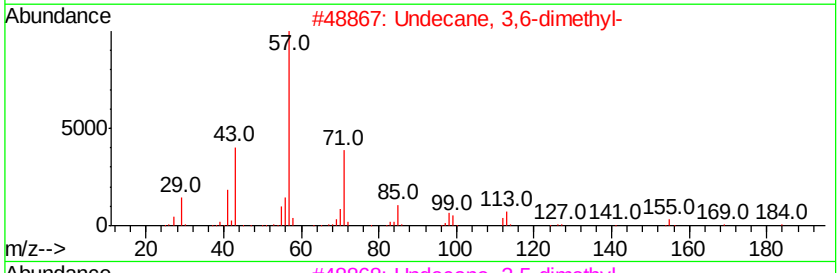
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	95
2	Undecane, 3,6-dimethyl-	184	C13H28	017301-28-9	83
3	Undecane, 3,5-dimethyl-	184	C13H28	017312-81-1	72
4	Undecane, 4,6-dimethyl-	184	C13H28	017312-82-2	59
5	Dodecane, 6-methyl-	184	C13H28	006044-71-9	58

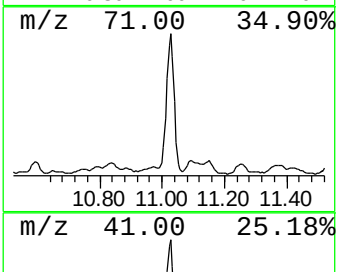


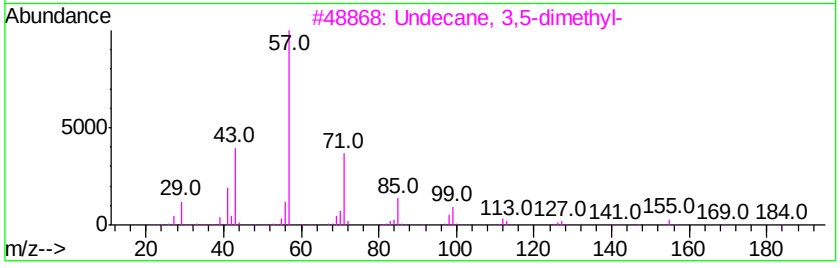


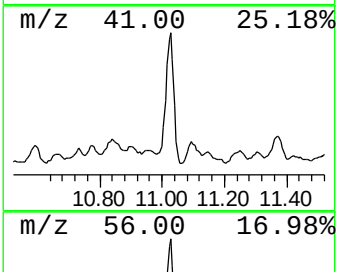


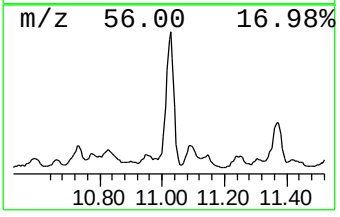












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Data File : BG038010.D
Acq On : 14 Nov 2018 23:34
Operator : JU/SJ
Sample : J5889-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BOTTOM-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG111318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

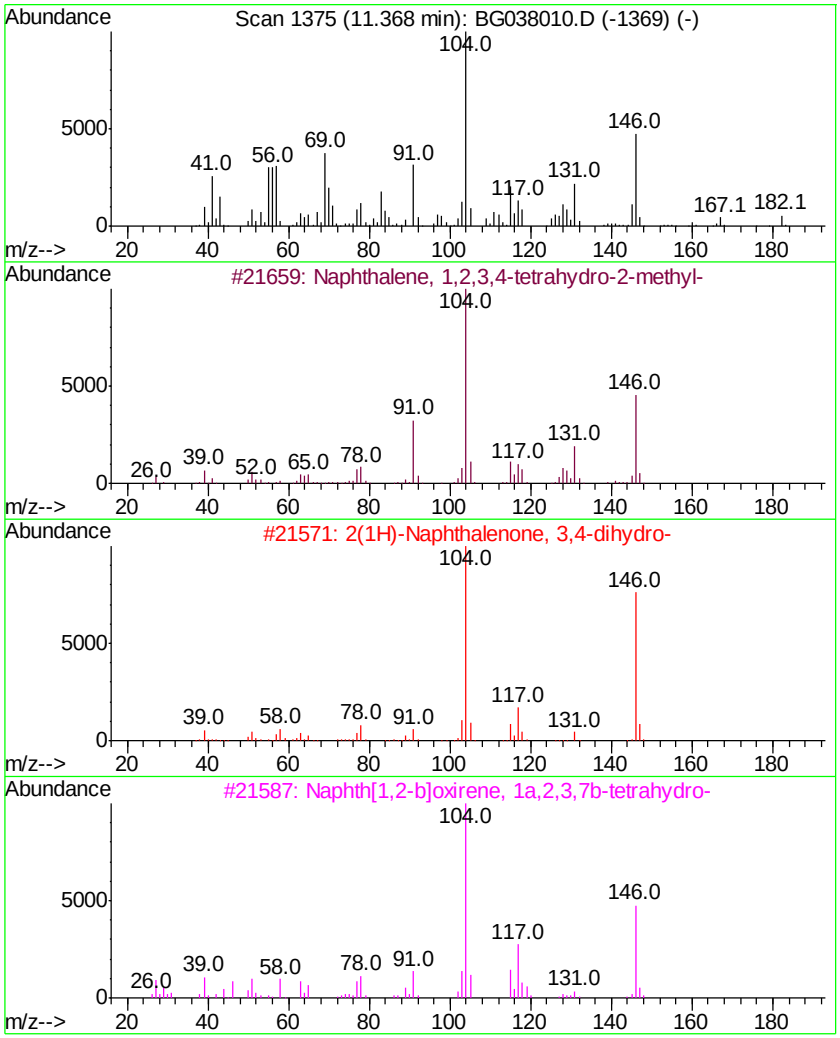
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

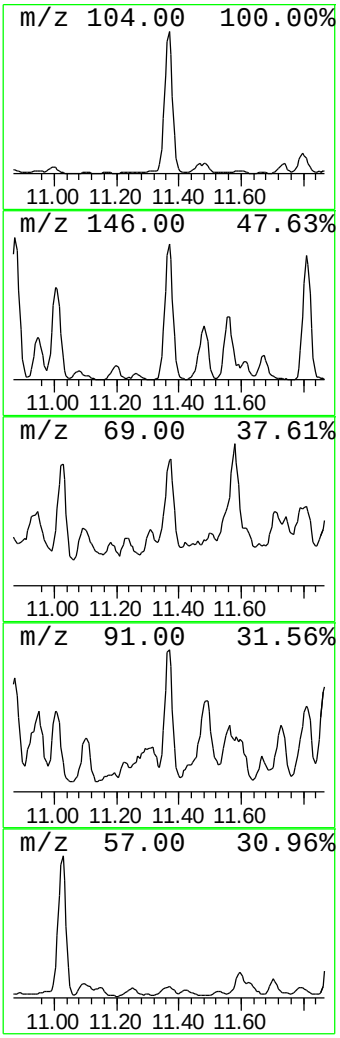
****

Peak Number 10 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.37	29.88 ng	1869290	Naphthalene-d8	10.91

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	003877-19-8	95
2	2(1H)-Naphthalenone, 3,4-dihydro-	146	C10H10O	000530-93-8	49
3	Naphth[1,2-b]oxirene, 1a,2,3,7b-...	146	C10H10O	002461-34-9	46
4	Naphthalene, 1,2,3,4-tetrahydro-...	160	C12H16	021564-92-1	38
5	2-Methylbenzyl cyanide	131	C9H9N	022364-68-7	35





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Sample : J5889-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BOTTOM-B

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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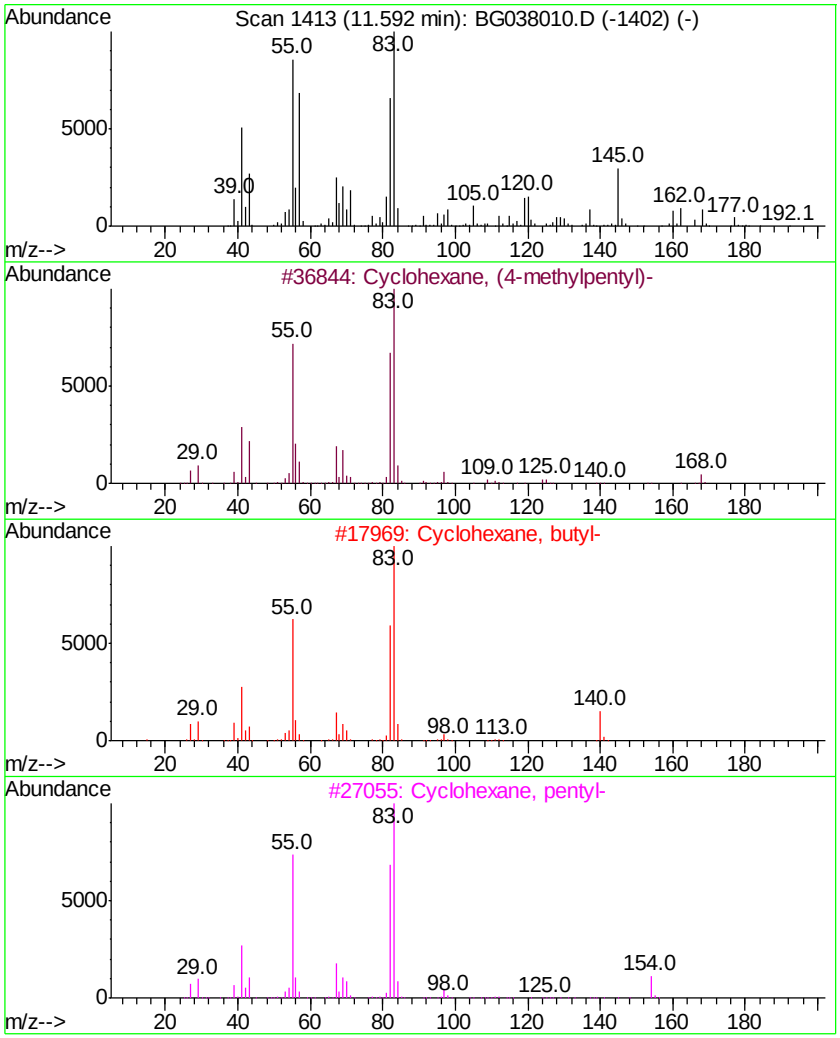
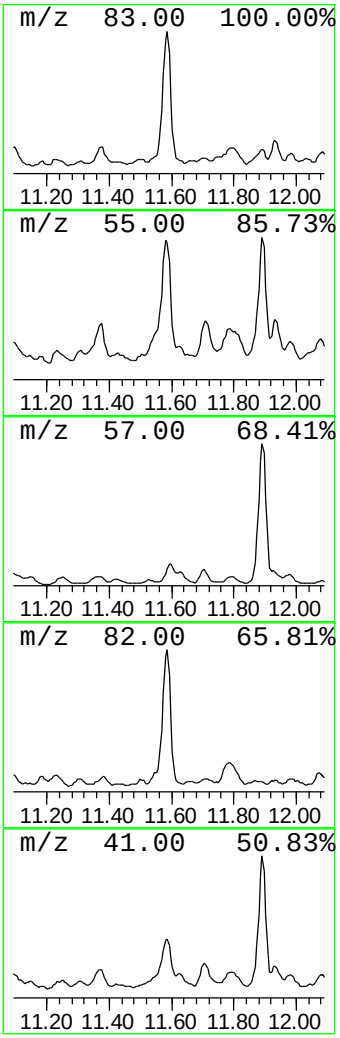
Peak Number 11 Cyclohexane, (4-methylpentyl)- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.59	62.30 ng	3896860	Naphthalene-d8	10.91

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclohexane, (4-methylpentyl)-	168	C12H24	061142-20-9	76
2	Cyclohexane, butyl-	140	C10H20	001678-93-9	59
3	Cyclohexane, pentyl-	154	C11H22	004292-92-6	59
4	Cyclohexane, 1,1'-(1,4-butanediy...	222	C16H30	006165-44-2	53
5	Cyclohexane, (1-methylethyl)-	126	C9H18	000696-29-7	53





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Operator : JU/SJ
Sample : J5889-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BOTTOM-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG111318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

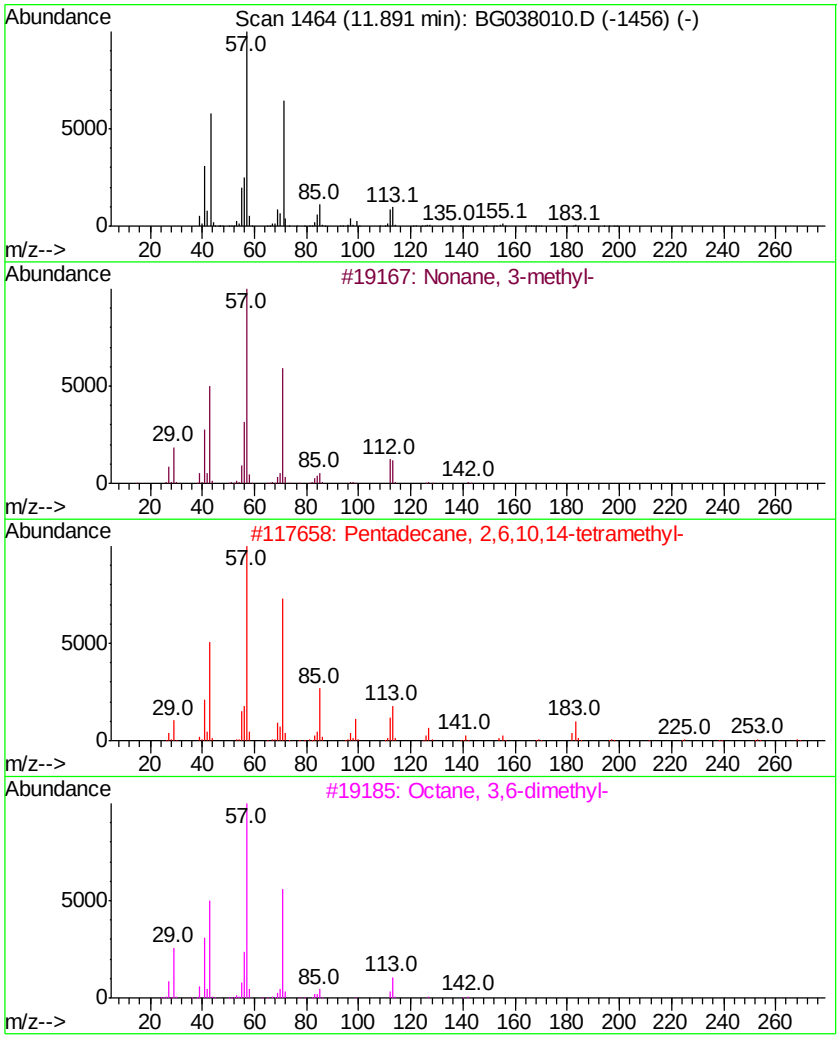
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

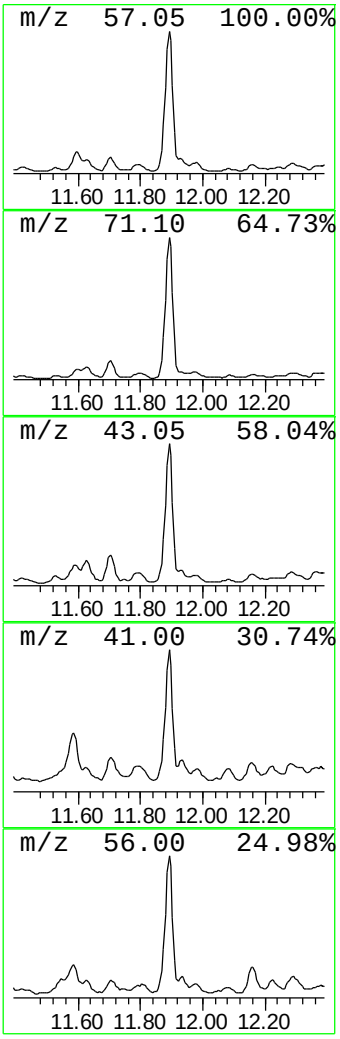
****

Peak Number 12 Nonane, 3-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	94.33 ng	5900650	Naphthalene-d8	10.91

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonane, 3-methyl-	142	C10H22	005911-04-6	80
2	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	78
3	Octane, 3,6-dimethyl-	142	C10H22	015869-94-0	72
4	Sulfurous acid, 2-ethylhexyl non...	320	C17H36O3S	1000309-19-2	59
5	Sulfurous acid, dodecyl 2-ethylh...	362	C20H42O3S	1000309-19-5	53





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Sample : J5889-11
Misc :
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Instrument : BNA_G
ClientSampleId : BOTTOM-B

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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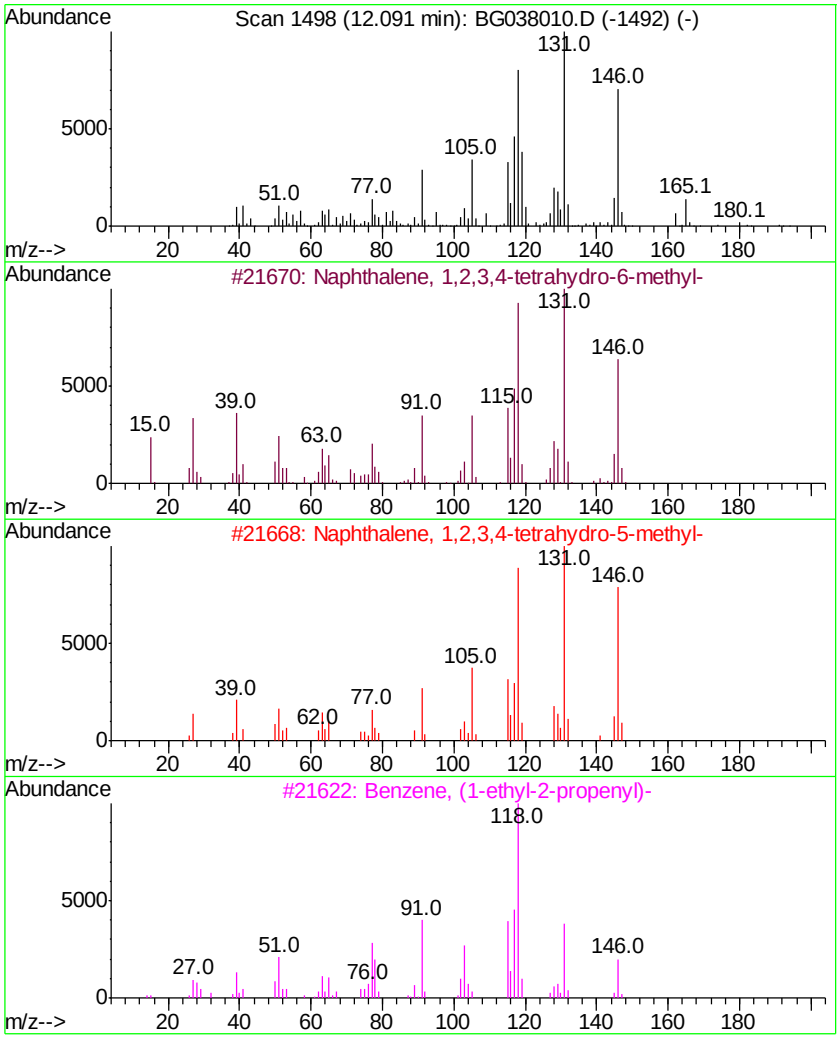
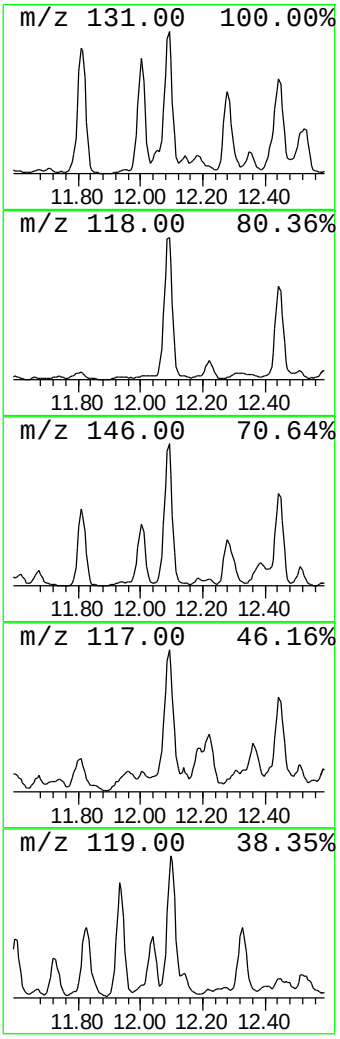
Peak Number 13 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.09	33.92 ng	2121660	Naphthalene-d8	10.91

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001680-51-9	96
2	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	002809-64-5	95
3	Benzene, (1-ethyl-2-propenyl)-	146	C11H14	019947-22-9	74
4	1H-1,3,2-Benzodiazaborole, 2-eth...	146	C8H11BN2	074663-81-3	68
5	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	46





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Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BOTTOM-B

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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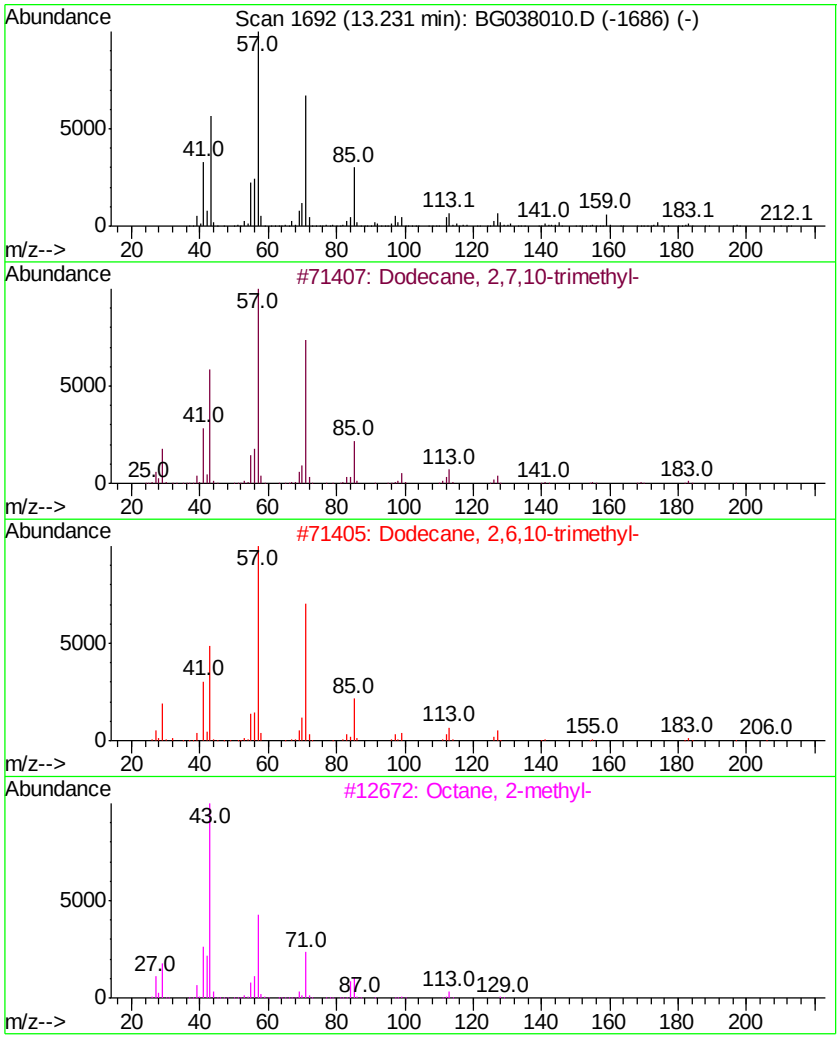
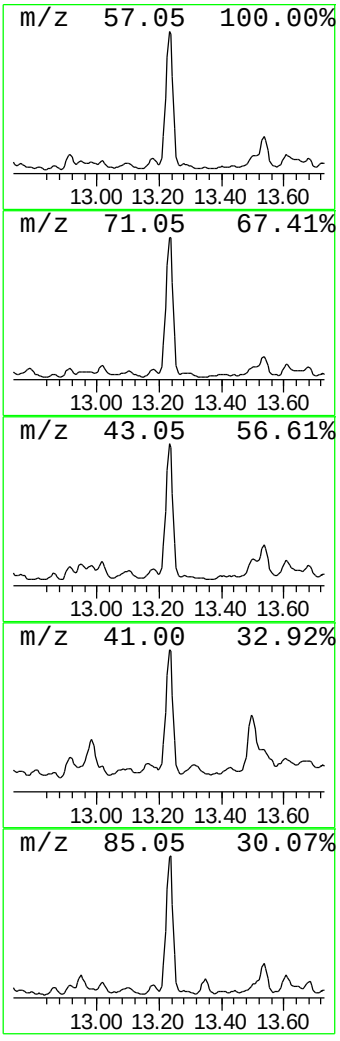
Peak Number 14 Dodecane, 2,7,10-trimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.23	32.03 ng	6619180	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	86
2	Dodecane, 2,6,10-trimethyl-	212	C15H32	003891-98-3	80
3	Octane, 2-methyl-	128	C9H20	003221-61-2	72
4	Undecane, 2-methyl-	170	C12H26	007045-71-8	59
5	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	59





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Instrument : BNA_G
ClientSampleId : BOTTOM-B

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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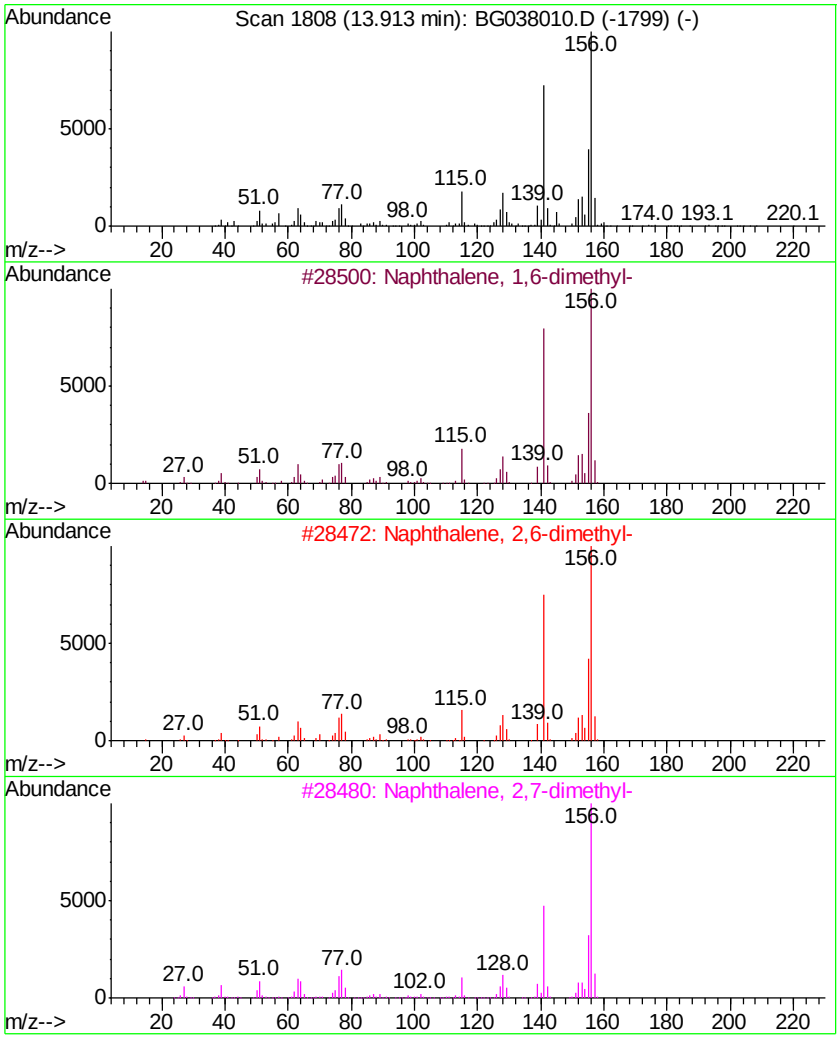
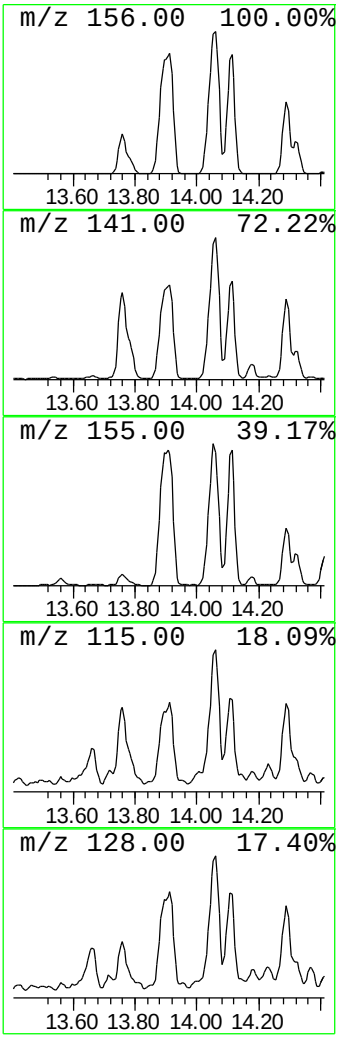
Peak Number 15 Naphthalene, 1,6-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.91	37.99 ng	7848700	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	98
2	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
3	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111418\
Data File : BG038010.D
Acq On : 14 Nov 2018 23:34
Operator : JU/SJ
Sample : J5889-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BOTTOM-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG111318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

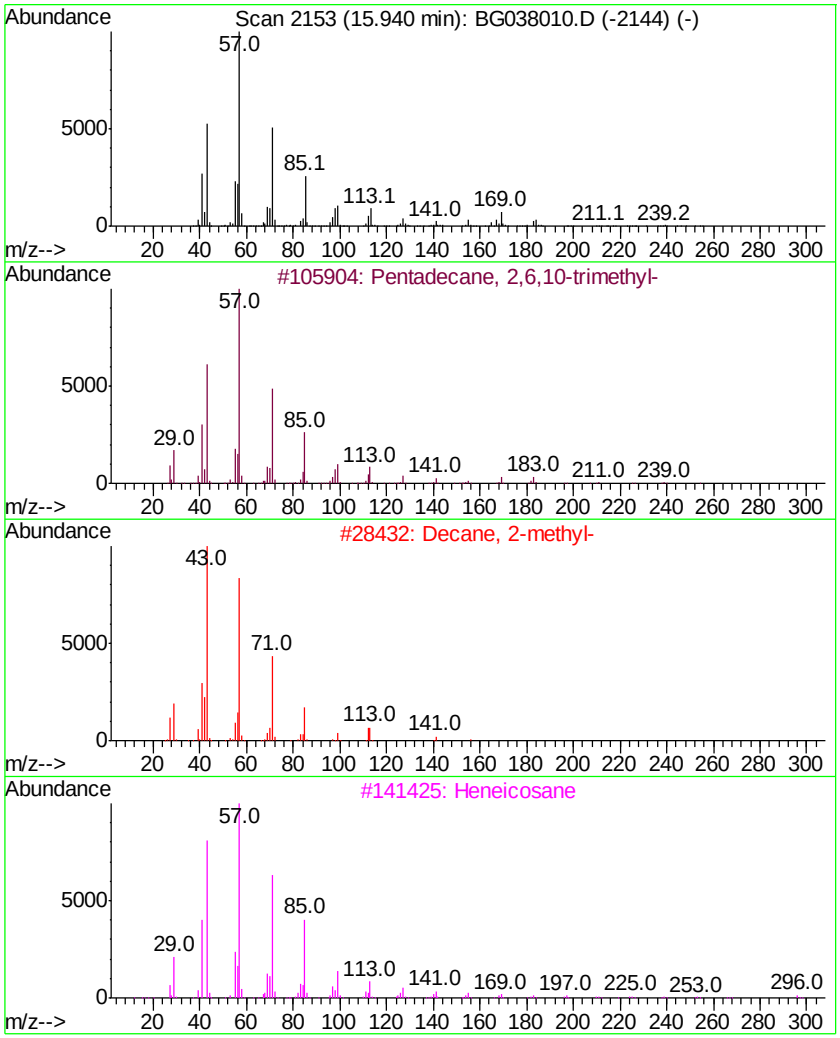
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

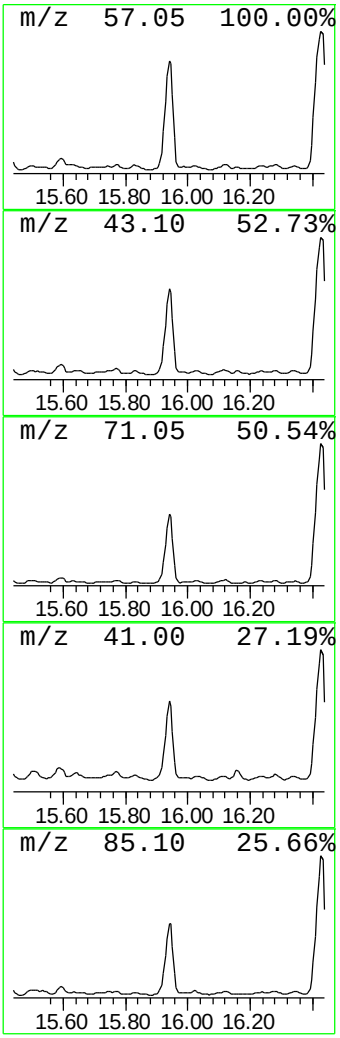
****

Peak Number 17 Pentadecane, 2,6,10-trimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.94	46.51 ng	9610770	Acenaphthene-d10	14.73

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane, 2,6,10-trimethyl-	254	C18H38	003892-00-0	93
2	Decane, 2-methyl-	156	C11H24	006975-98-0	74
3	Heneicosane	296	C21H44	000629-94-7	64
4	Heptacosane	380	C27H56	000593-49-7	64
5	Decane, 3,6-dimethyl-	170	C12H26	017312-53-7	64





Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111418\
Data File : BG038010.D
Acq On : 14 Nov 2018 23:34
Operator : JU/SJ
Sample : J5889-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BOTTOM-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG111318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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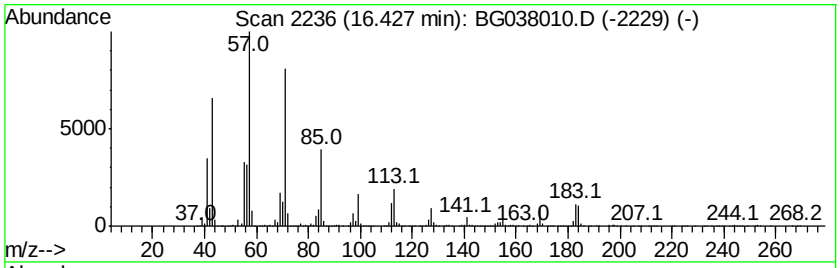
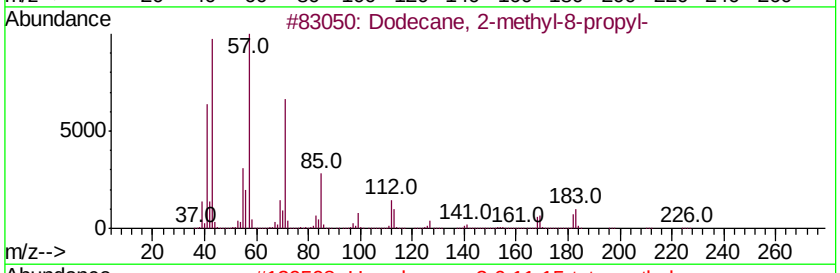
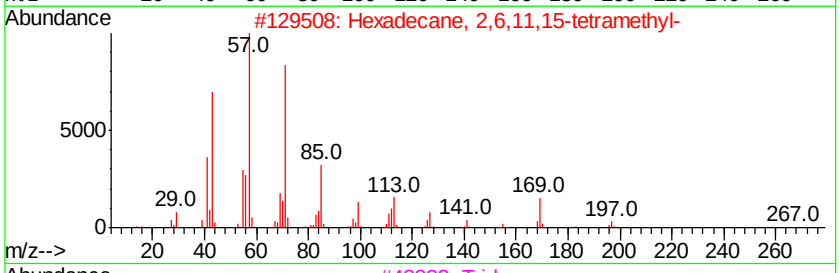
Peak Number 18 Dodecane, 2-methyl-8-propyl- Concentration Rank 1

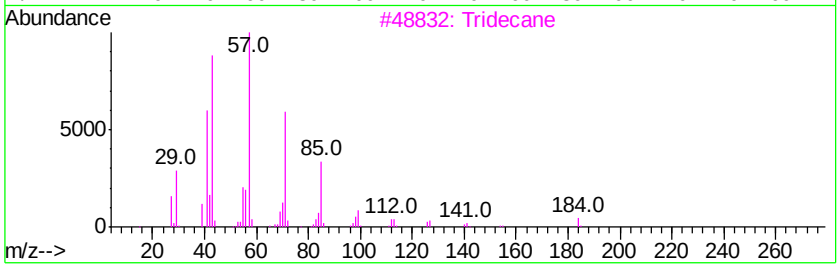
R.T.	EstConc	Area	Relative to ISTD	R.T.
16.43	243.97 ng	17404800	Phenanthrene-d10	17.48

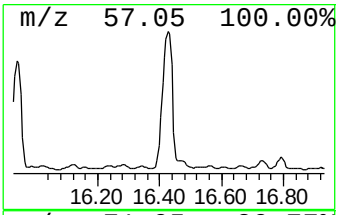
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2-methyl-8-propyl-	226	C16H34	055045-07-3	93
2	Hexadecane, 2,6,11,15-tetramethyl-	282	C20H42	000504-44-9	87
3	Tridecane	184	C13H28	000629-50-5	87
4	Pentadecane, 4-methyl-	226	C16H34	002801-87-8	81
5	Tridecane, 7-hexyl-	268	C19H40	007225-66-3	76

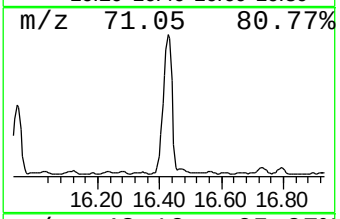


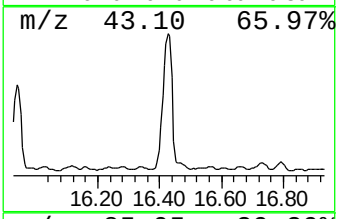


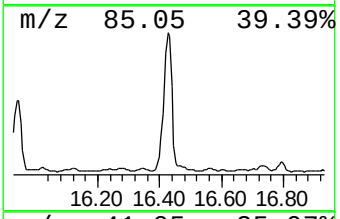


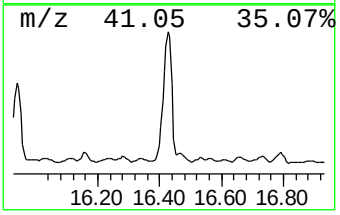












Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111418\
Data File : BG038010.D
Acq On : 14 Nov 2018 23:34
Operator : JU/SJ
Sample : J5889-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BOTTOM-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG111318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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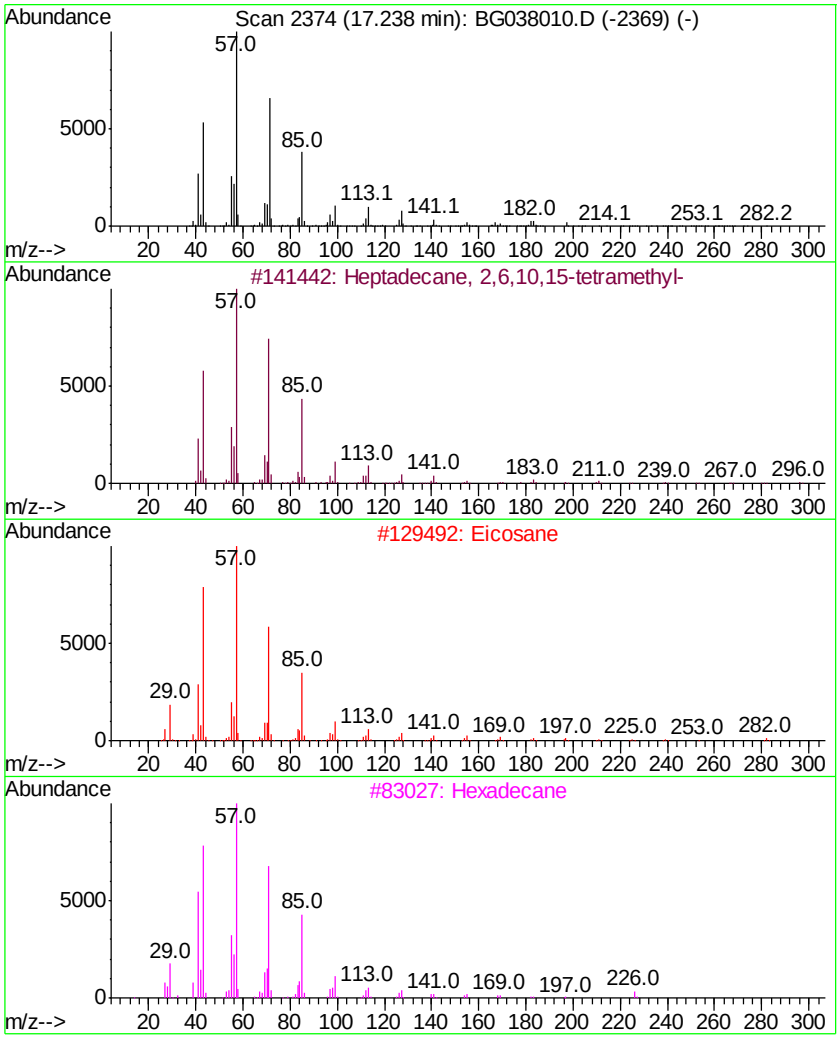
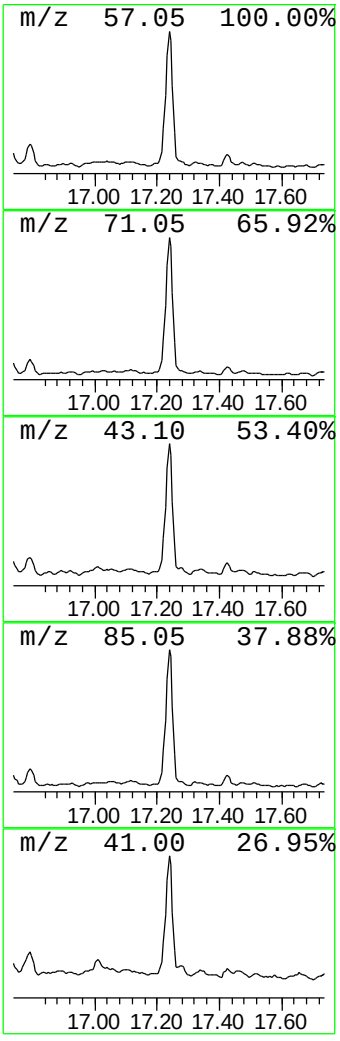
Peak Number 19 Heptadecane, 2,6,10,15-tetr... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.24	76.10 ng	5429060	Phenanthrene-d10	17.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	91
2	Eicosane	282	C20H42	000112-95-8	86
3	Hexadecane	226	C16H34	000544-76-3	86
4	Tridecane, 5-propyl-	226	C16H34	055045-11-9	81
5	Undecane, 2,10-dimethyl-	184	C13H28	017301-27-8	80





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG111418\
Data File : BG038010.D
Acq On : 14 Nov 2018 23:34
Operator : JU/SJ
Sample : J5889-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BOTTOM-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG111318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

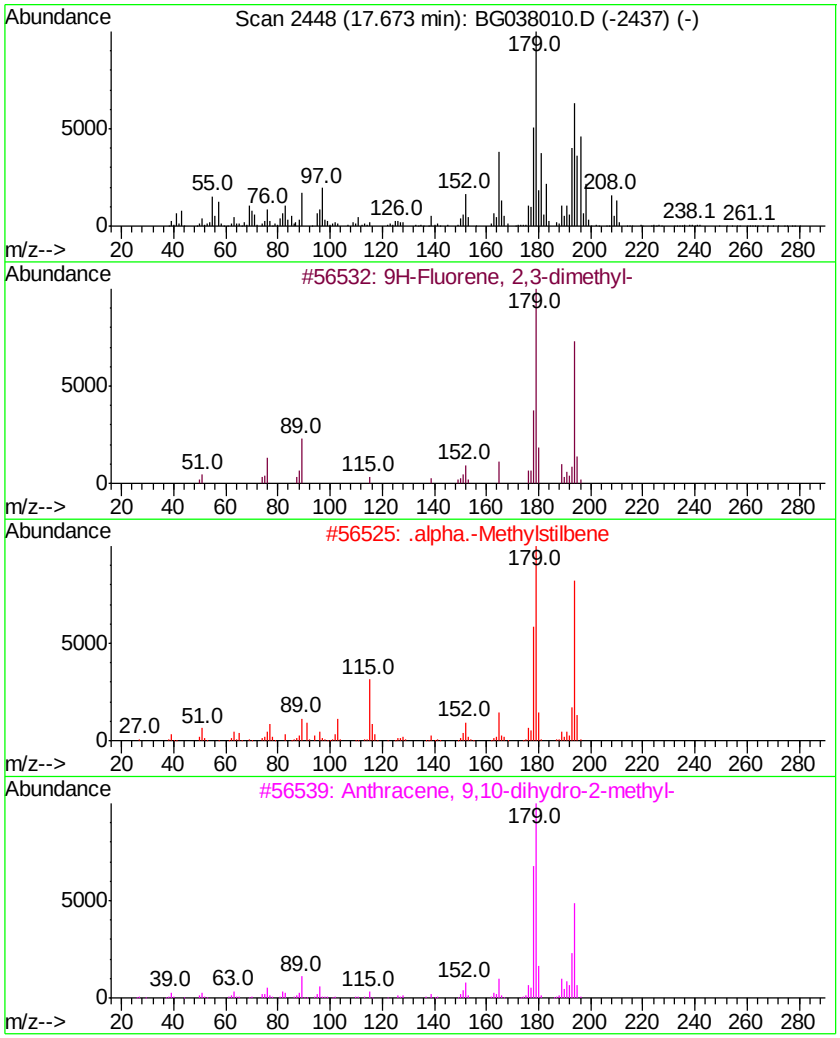
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

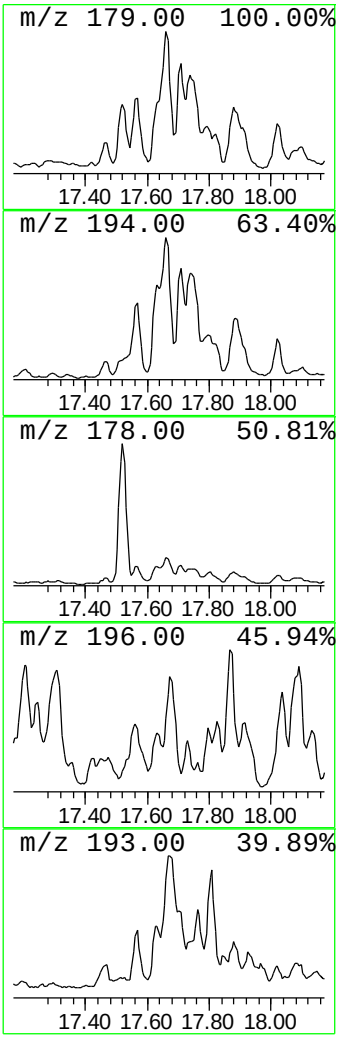
****

Peak Number 20 9H-Fluorene, 2,3-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.67	36.82 ng	2626800	Phenanthrene-d10	17.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2,3-dimethyl-	194	C15H14	004612-63-9	78
2	.alpha.-Methylstilbene	194	C15H14	000779-51-1	53
3	Anthracene, 9,10-dihydro-2-methyl-	194	C15H14	000948-67-4	50
4	Phenanthrene, 9,10-dihydro-1-met...	194	C15H14	095676-48-5	46
5	Benzene, 1-methyl-2-(2-phenyleth...	194	C15H14	074685-42-0	38





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG111418\
Data File : BG038010.D
Acq On : 14 Nov 2018 23:34
Operator : JU/SJ
Sample : J5889-11
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument : BNA_G
ClientSampleId : BOTTOM-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG111318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT 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
unknown7.61	7.61	32.2	ng	1511620	1	8.08	938510	20.0
Nonane, 2,6-dimet...	8.03	37.1	ng	1738960	1	8.08	938510	20.0
Benzene, 1-methyl...	8.63	40.4	ng	1893610	1	8.08	938510	20.0
Benzene, 1,4-diet...	8.71	51.0	ng	2394920	1	8.08	938510	20.0
Benzene, 4-ethyl-...	9.18	70.4	ng	3303870	1	8.08	938510	20.0
unknown9.43	9.43	43.2	ng	2029260	1	8.08	938510	20.0
Naphthalene, deca...	10.07	36.2	ng	2263840	2	10.91	1251080	20.0
2,4-Dimethylstyrene	10.29	33.7	ng	2109240	2	10.91	1251080	20.0
Undecane, 2,6-dim...	11.02	90.2	ng	5644720	2	10.91	1251080	20.0
Naphthalene, 1,2,...	11.37	29.9	ng	1869290	2	10.91	1251080	20.0
Cyclohexane, (4-m...	11.59	62.3	ng	3896860	2	10.91	1251080	20.0
Nonane, 3-methyl-	11.89	94.3	ng	5900650	2	10.91	1251080	20.0
Naphthalene, 1,2,...	12.09	33.9	ng	2121660	2	10.91	1251080	20.0
Dodecane, 2,7,10-...	13.23	32.0	ng	6619180	3	14.73	4132470	20.0
Naphthalene, 1,6-...	13.91	38.0	ng	7848700	3	14.73	4132470	20.0
Pentadecane, 2,6,...	15.94	46.5	ng	9610770	3	14.73	4132470	20.0
Dodecane, 2-methy...	16.43	244.0	ng	17404800	4	17.48	1426820	20.0
Heptadecane, 2,6,...	17.24	76.1	ng	5429060	4	17.48	1426820	20.0
9H-Fluorene, 2,3-...	17.67	36.8	ng	2626800	4	17.48	1426820	20.0