LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114511.D
Acq On : 23 May 2019 3:52
Operator : JU/SJ
Sample : K2951-09 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14-S

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_F\METHODS\8270-BF051019.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	5.457	570	573	589	rVB	1408840	1620909	15.10%	0.944%
2	5.663	604	608	636	rBV	1751076	4090197	38.10%	2.381%
3	6.475	742	746	755	rBV	1587138	1795633	16.73%	1.045%
4	6.545	755	758	765	rVV	338276	437653	4.08%	0.255%
5	6.604	765	768	774	rVV	1934188	1706215	15.89%	0.993%
6	6.663	774	778	783	rVV	2619627	3919914	36.51%	2.282%
7	6.704	783	785	803	rVV	1561094	2422342	22.56%	1.410%
8	6.828	803	806	813	rVB	1450462	1228045	11.44%	0.715%
9	6.987	829	833	835	rVV	1476989	1296126	12.07%	0.755%
10	7.092	847	851	865	rBV	3674716	4850798	45.18%	2.824%
11	7.334	888	892	895	rBV	339364	310827	2.90%	0.181%
12	7.392	899	902	908	rVV	1165604	1282178	11.94%	0.746%
13	7.445	908	911	916	rVV	788461	1044386	9.73%	0.608%
14	7.492	916	919	924	rVB	388625	411033	3.83%	0.239%
15	7.687	945	952	966	rBV	4759345	6114894	56.96%	3.560%
16	7.863	978	982	985	rVV	971358	1123642	10.47%	0.654%
17	7.910	985	990	999	rVV	1408429	1965294	18.31%	1.144%
18	8.110	1021	1024	1026	rBV	1653044	1558881	14.52%	0.907%
19	8.134	1026	1028	1032	rVV	3783970	3335145	31.07%	1.942%
20	8.186	1032	1037	1042	rVB	204488	280837	2.62%	0.163%
21	8.328	1057	1061	1068	rBV	3543768	3463245	32.26%	2.016%
22	8.386	1068	1071	1085	rVV2	3282273	3563671	33.19%	2.075%
23	8.492	1085	1089	1094	rVV2	282747	345595	3.22%	0.201%
24	8.639	1112	1114	1121	rVV2	315552	442867	4.13%	0.258%
25	8.822	1141	1145	1152	rVB2	1795478	2096630	19.53%	1.221%
26	8.881	1152	1155	1160	rBV	886128	866140	8.07%	0.504%
27	8.922	1160	1162	1166	rVV	934222	875771	8.16%	0.510%
28	8.998	1170	1175	1176	rBV	375177	359421	3.35%	0.209%
29	9.016	1176	1178	1184	rVB	505829	478614	4.46%	0.279%
30	9.104	1190	1193	1200	rBV	823488	777151	7.24%	0.452%
31	9.186	1204	1207	1210	rVV	1976658	1776511	16.55%	1.034%
32	9.245	1213	1217	1219	rBV2	212368	281567	2.62%	0.164%
33	9.286	1222	1224	1227	rVB	418424	308801	2.88%	0.180%
34	9.339	1231	1233	1238	rVB	274542	291938	2.72%	0.170%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114511.D
Acq On : 23 May 2019 3:52
Operator : JU/SJ
Sample : K2951-09 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14-S

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_F\METHODS\8270-BF051019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	9.528	1261	1265	1268	rBV2	488103	609102	5.67%	0.355%
36	9.581	1271	1274	1279	rVB	385158	386090	3.60%	0.225%
37	9.722	1293	1298	1308	rVV4	253244	547873	5.10%	0.319%
38	9.869	1320	1323	1326	rVV	1902800	1889555	17.60%	1.100%
39	9.898	1326	1328	1332	rVV	2732955	2349581	21.89%	1.368%
40	10.022	1346	1349	1354	rVV3	245054	326808	3.04%	0.190%
41	10.075	1354	1358	1362	rVV	1694271	1673100	15.58%	0.974%
42	10.416	1412	1416	1421	rVB	2273493	1919269	17.88%	1.117%
43	10.569	1440	1442	1447	rVB	426016	406238	3.78%	0.236%
44	10.657	1453	1457	1461	rBV2	1150875	1256357	11.70%	0.731%
45	10.963	1506	1509	1512	rVV3	319334	317889	2.96%	0.185%
46	11.210	1547	1551	1554	rBV2	415849	453174	4.22%	0.264%
47	11.251	1555	1558	1560	rVV	1228431	1012000	9.43%	0.589%
48	11.280	1560	1563	1566	rVB	1493215	1373665	12.80%	0.800%
49	11.357	1572	1576	1578	rBV	1470133	1733368	16.15%	1.009%
50	11.392	1578	1582	1584	rVV	7687354	8715279	81.18%	5.074%
51	11.433	1584	1589	1592	rVV	2045832	1956435	18.22%	1.139%
52	11.469	1592	1595	1600	rVB	1759666	1549603	14.43%	0.902%
53	11.586	1610	1615	1619	rBV3	2660487	2811352	26.19%	1.637%
54	11.645	1622	1625	1630	rVB3	635306	633115	5.90%	0.369%
55	11.704	1632	1635	1637	rVB	616259	527801	4.92%	0.307%
56	11.757	1640	1644	1649	rVV	1581468	1557030	14.50%	0.906%
57	11.863	1657	1662	1664	rBV3	1572116	1880321	17.51%	1.095%
58	11.886	1664	1666	1669	rVV2	1397946	1226498	11.42%	0.714%
59	11.974	1678	1681	1683	rBV	1632888	1745581	16.26%	1.016%
60	12.022	1687	1689	1691	rBV	515020	457287	4.26%	0.266%
61	12.592	1780	1786	1789	rBV	6842245	9546487	88.92%	5.557%
62	12.657	1792	1797	1800	rVB2	835602	982357	9.15%	0.572%
63	12.727	1806	1809	1812	rVB2	617781	574285	5.35%	0.334%
64	12.821	1817	1825	1828	rBV2	6821002	10735661	100.00%	6.250%
65	12.851	1828	1830	1835	rVB3	535737	620016	5.78%	0.361%
66	12.921	1838	1842	1843	rBV2	866467	1039152	9.68%	0.605%
67	12.939	1843	1845	1847	rVV	1172605	943811	8.79%	0.549%
68	12.969	1847	1850	1854	rVB	829609	831565	7.75%	0.484%
69	13.021	1854	1859	1863	rBV4	580862	1066638	9.94%	0.621%
70	13.057	1863	1865	1868	rBV2	471017	388311	3.62%	0.226%
71	13.133	1875	1878	1881	rVB	1793548	1633071	15.21%	0.951%

LSC Area Percent Report

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Data File : BF114511.D
Acq On : 23 May 2019 3:52
Operator : JU/SJ
Sample : K2951-09 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14-S

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_F\METHODS\8270-BF051019.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.198	1886	1889	1892	rVV	1675982	1515505	14.12%	0.882%
73	13.239	1892	1896	1903	rVB3	824979	1390738	12.95%	0.810%
74	13.327	1909	1911	1914	rBV	400738	391210	3.64%	0.228%
75	13.363	1914	1917	1925	rVB2	598435	738982	6.88%	0.430%
76	13.557	1947	1950	1952	rVB	394959	382253	3.56%	0.223%
77	13.616	1957	1960	1963	rBV3	240659	310907	2.90%	0.181%
78	13.757	1980	1984	1986	rBV	1128573	1216992	11.34%	0.708%
79	13.774	1986	1987	1990	rVV	999654	756627	7.05%	0.440%
80	13.810	1990	1993	1999	rVB3	889897	1455753	13.56%	0.847%
81	13.921	2007	2012	2018	rBV	500065	732644	6.82%	0.427%
82	14.004	2018	2026	2029	rBV2	4785031	8134179	75.77%	4.735%
83	14.039	2029	2032	2035	rVV	4393431	4862062	45.29%	2.830%
84	14.116	2042	2045	2048	rBV	1340563	1072794	9.99%	0.625%
85	14.198	2057	2059	2061	rVV	535606	410916	3.83%	0.239%
86	14.233	2061	2065	2068	rVB2	840141	972302	9.06%	0.566%
87	14.351	2083	2085	2088	rBV2	370194	406810	3.79%	0.237%
88	14.392	2089	2092	2094	rVB	775300	721034	6.72%	0.420%
89	14.515	2111	2113	2115	rBV	451391	467672	4.36%	0.272%
90	14.892	2174	2177	2180	rBV	357568	383171	3.57%	0.223%
91	15.063	2199	2206	2208	rBV	3038385	5387602	50.18%	3.136%
92	15.157	2219	2222	2226	rVB	861128	909682	8.47%	0.530%
93	15.357	2251	2256	2262	rVB	1964343	2884899	26.87%	1.679%
94	15.427	2262	2268	2272	rVV	2735276	3707542	34.53%	2.158%
95	15.480	2273	2277	2279	rVV	669274	830848	7.74%	0.484%
96	15.510	2279	2282	2288	rVB	1026314	1413305	13.16%	0.823%
97	16.968	2522	2530	2535	rVB2	1191403	2410473	22.45%	1.403%
98	17.127	2552	2557	2562	rBV	222332	407369	3.79%	0.237%
99	17.415	2599	2606	2616	rVB	961558	2114453	19.70%	1.231%
100	17.656	2641	2647	2660	rVB	382341	991961	9.24%	0.577%

Sum of corrected areas: 171779281

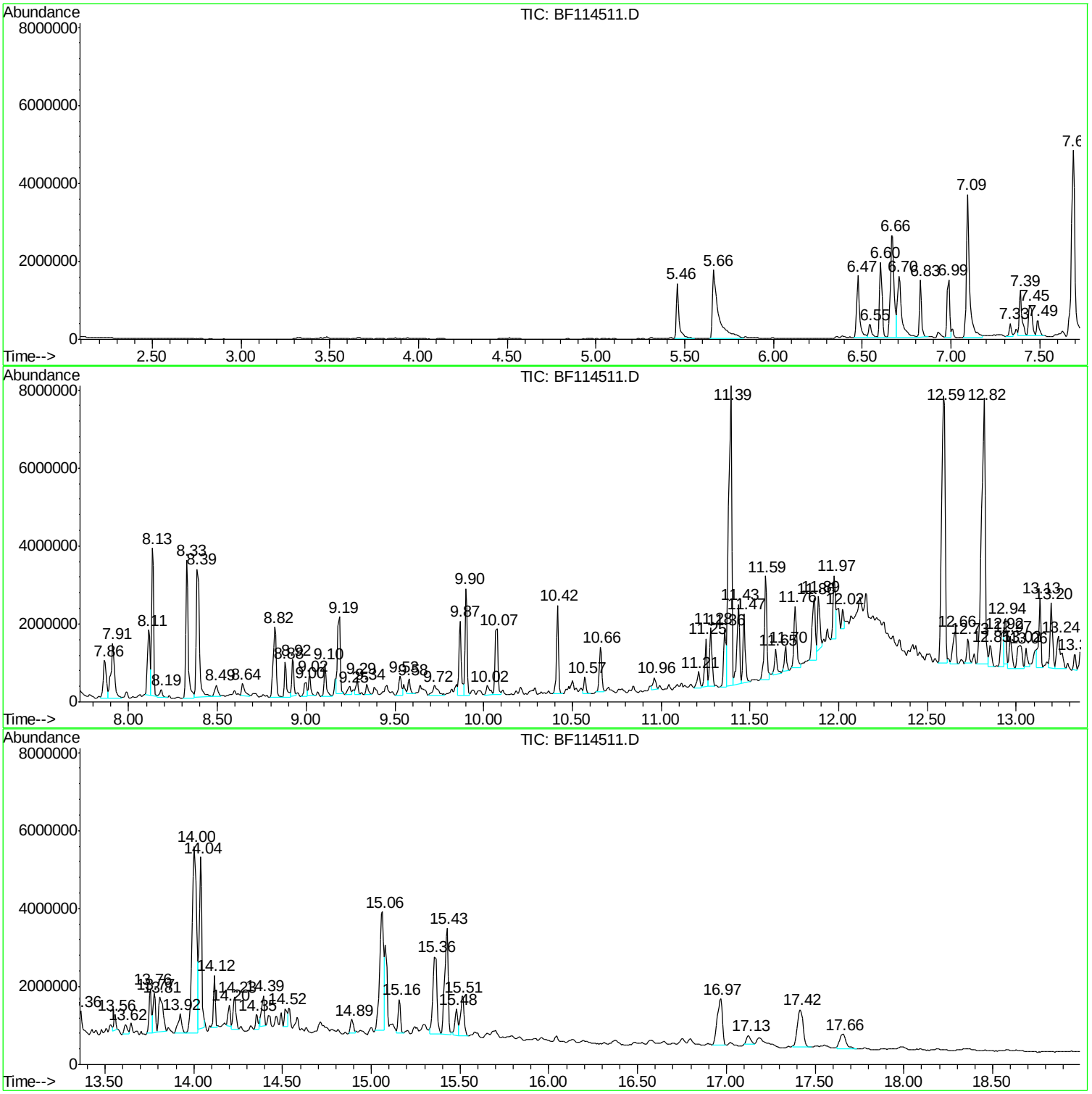
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114511.D
Acq On : 23 May 2019 3:52
Operator : JU/SJ
Sample : K2951-09 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-14-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.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 F\DATA\BF052219\
Data File : BF114511.D
Acq On : 23 May 2019 3:52
Operator : JU/SJ
Sample : K2951-09 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

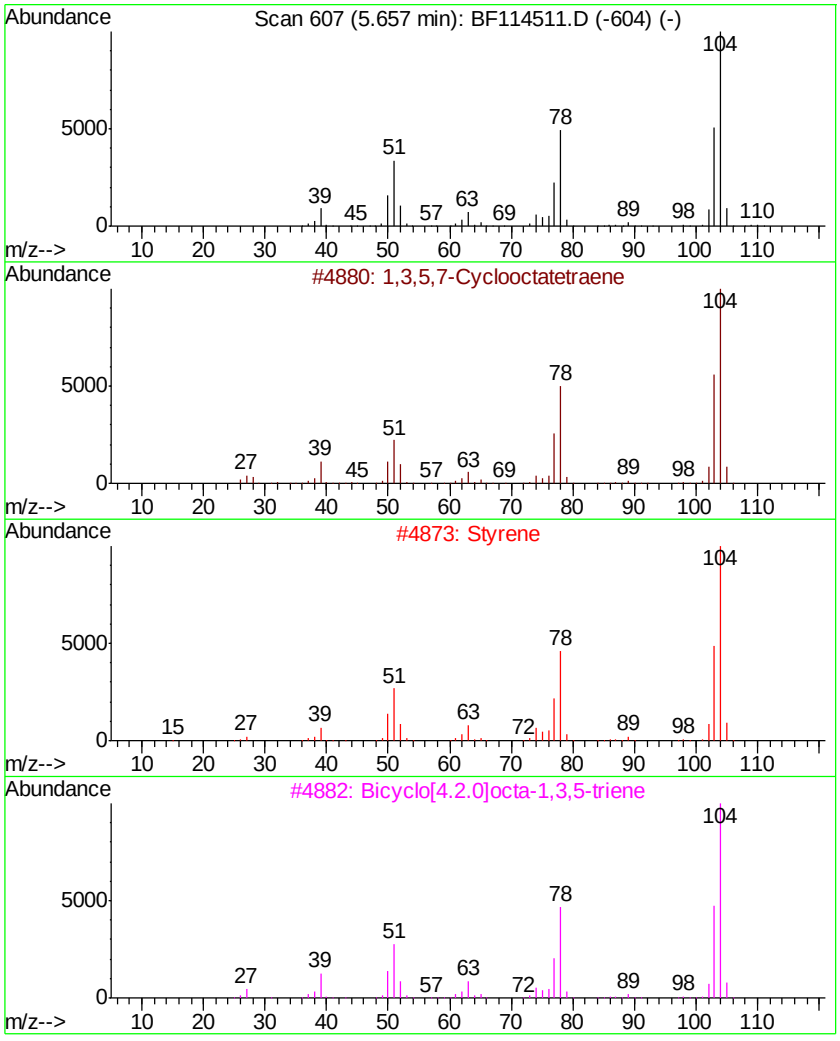
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

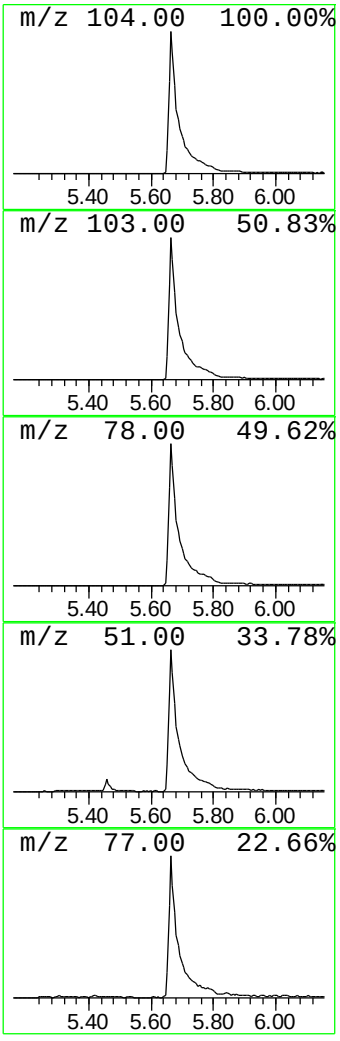
****

Peak Number 1 1,3,5,7-Cyclooctatetraene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.66	66.61 ng	4090200	1,4-Dichlorobenzene-d4	6.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3,5,7-Cyclooctatetraene	104	C8H8	000629-20-9	97
2	Styrene	104	C8H8	000100-42-5	96
3	Bicyclo[4.2.0]octa-1,3,5-triene	104	C8H8	000694-87-1	96
4	2-Pyridinecarbonitrile	104	C6H4N2	000100-70-9	47
5	Butanedioic acid, phenyl-	194	C10H10O4	000635-51-8	38





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114511.D
Acq On : 23 May 2019 3:52
Operator : JU/SJ
Sample : K2951-09 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

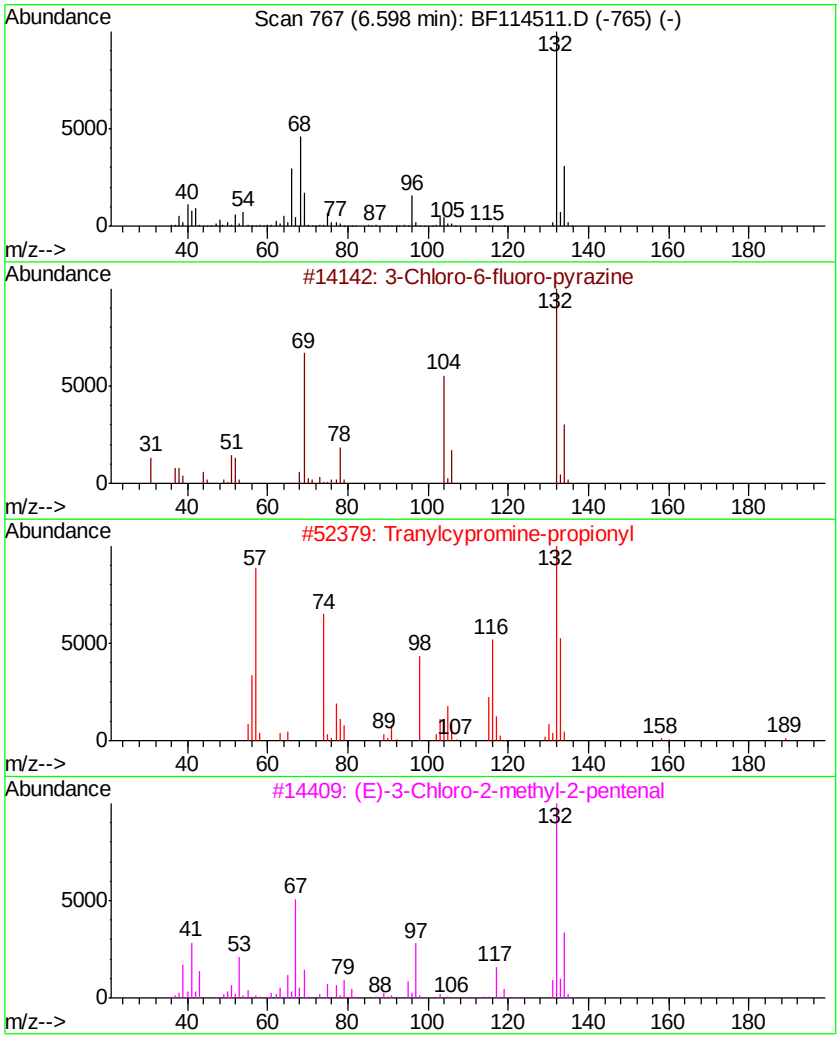
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

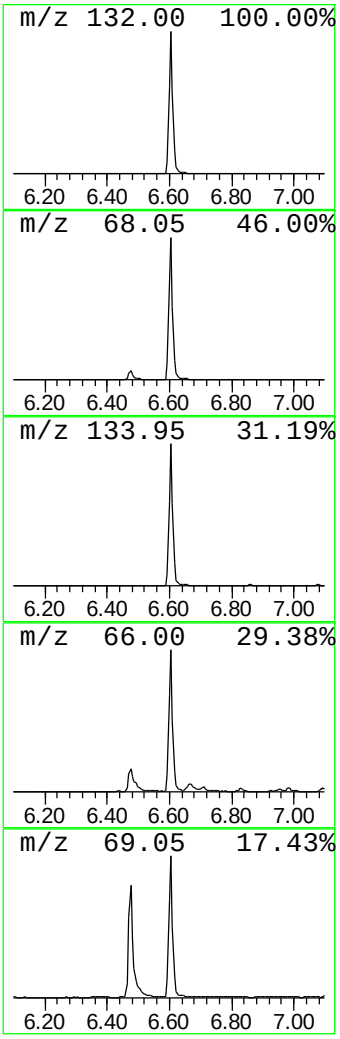
****

Peak Number 2 unknown6.60 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.60	27.79 ng	1706220	1,4-Dichlorobenzene-d4	6.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
3	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	12
4	5-Aminoindole	132	C8H8N2	005192-03-0	12
5	Imidazole, 4,5-dicyano-1-methyl-	132	C6H4N4	019485-35-9	9





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114511.D
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Instrument : BNA_F
ClientSampleId : TP-14-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

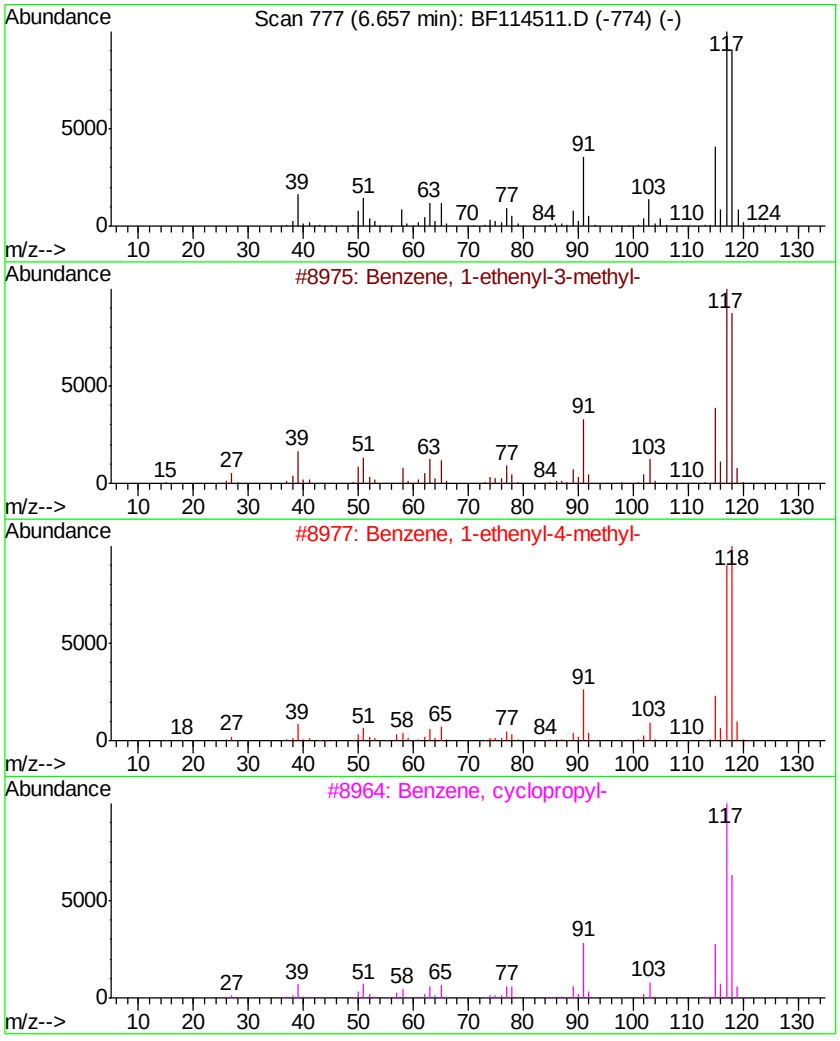
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

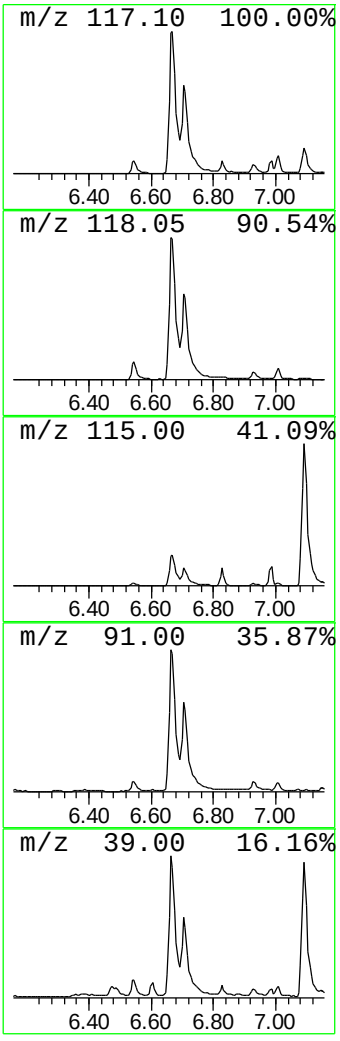
****

Peak Number 3 Benzene, 1-ethenyl-3-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.66	63.84 ng	3919910	1,4-Dichlorobenzene-d4	6.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-3-methyl-	118	C9H10	000100-80-1	96
2	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	95
3	Benzene, cyclopropyl-	118	C9H10	000873-49-4	94
4	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	94
5	(Z)-1-Phenylpropene	118	C9H10	000766-90-5	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114511.D
Acq On : 23 May 2019 3:52
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Sample : K2951-09 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

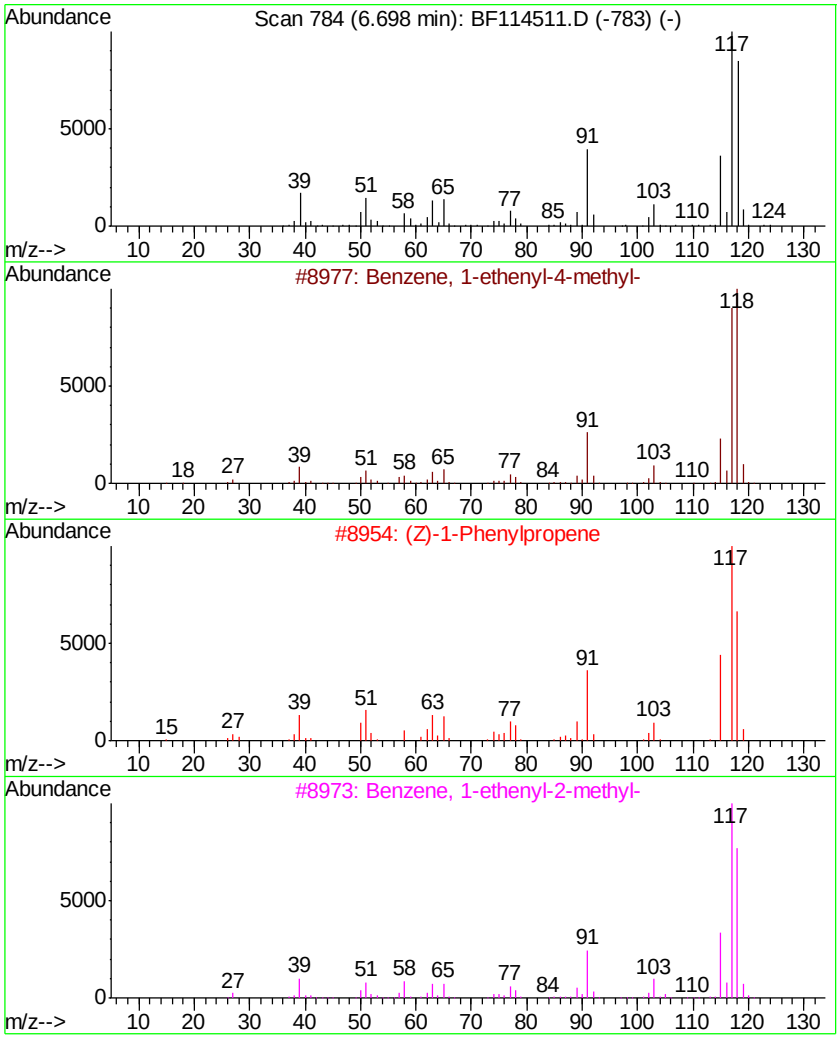
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

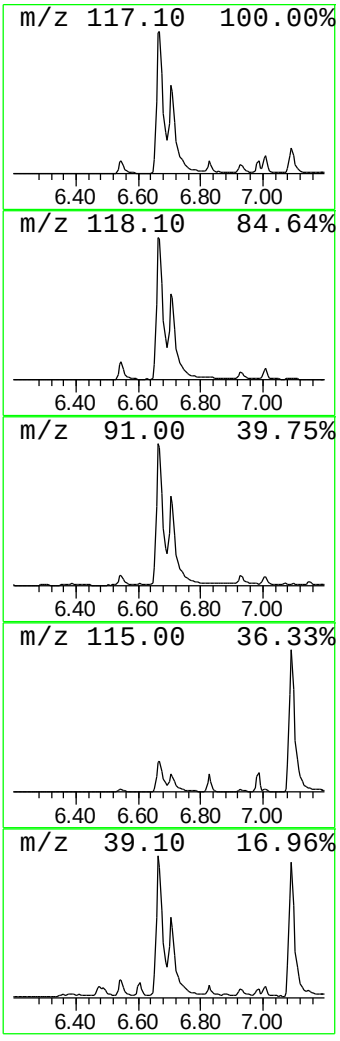
****

Peak Number 4 Benzene, 1-ethenyl-4-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.70	39.45 ng	2422340	1,4-Dichlorobenzene-d4	6.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	94
2	(Z)-1-Phenylpropene	118	C9H10	000766-90-5	93
3	Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	93
4	Benzene, cyclopropyl-	118	C9H10	000873-49-4	93
5	Benzene, 2-propenyl-	118	C9H10	000300-57-2	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114511.D
Acq On : 23 May 2019 3:52
Operator : JU/SJ
Sample : K2951-09 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

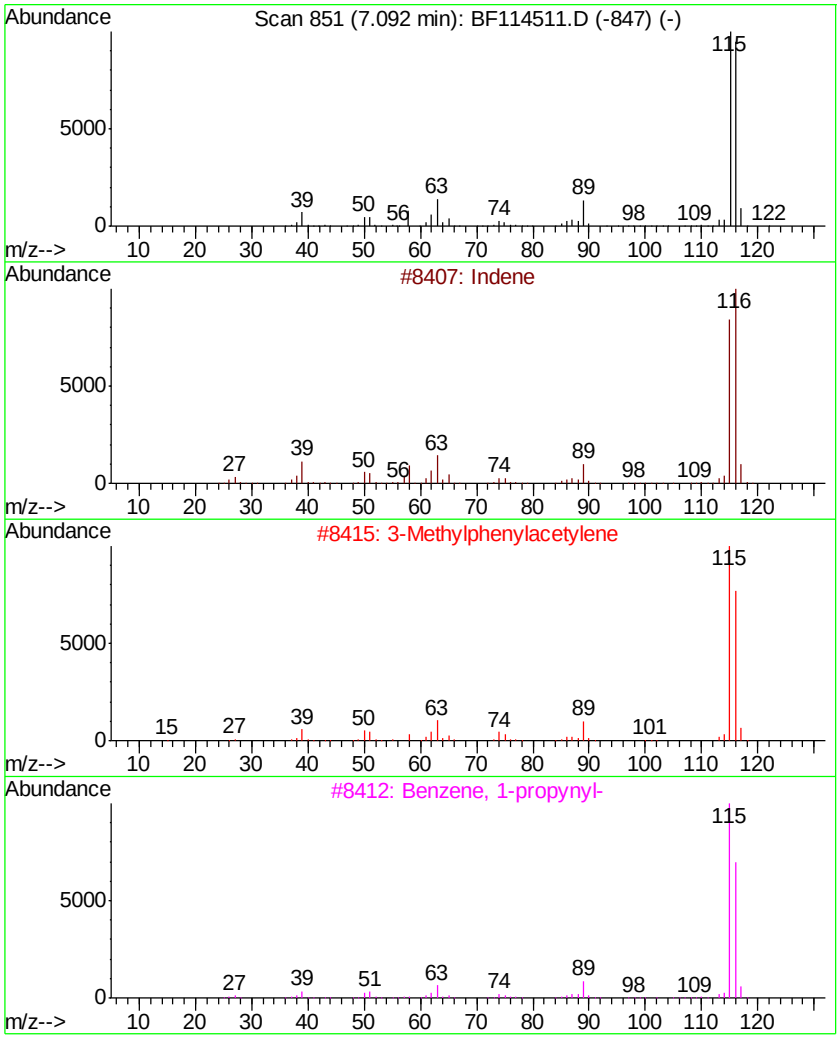
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

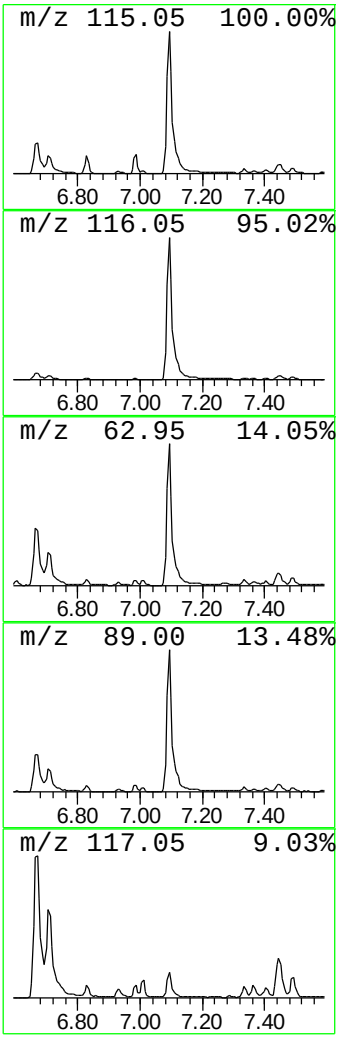
****

Peak Number 6 Indene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.09	79.00 ng	4850800	1,4-Dichlorobenzene-d4	6.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indene	116	C9H8	000095-13-6	96
2	3-Methylphenylacetylene	116	C9H8	000766-82-5	91
3	Benzene, 1-propynyl-	116	C9H8	000673-32-5	91
4	Benzene, 1,2-propadienyl-	116	C9H8	002327-99-3	91
5	Benzene, 1-ethynyl-4-methyl-	116	C9H8	000766-97-2	90





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Acq On : 23 May 2019 3:52
Operator : JU/SJ
Sample : K2951-09 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14-S

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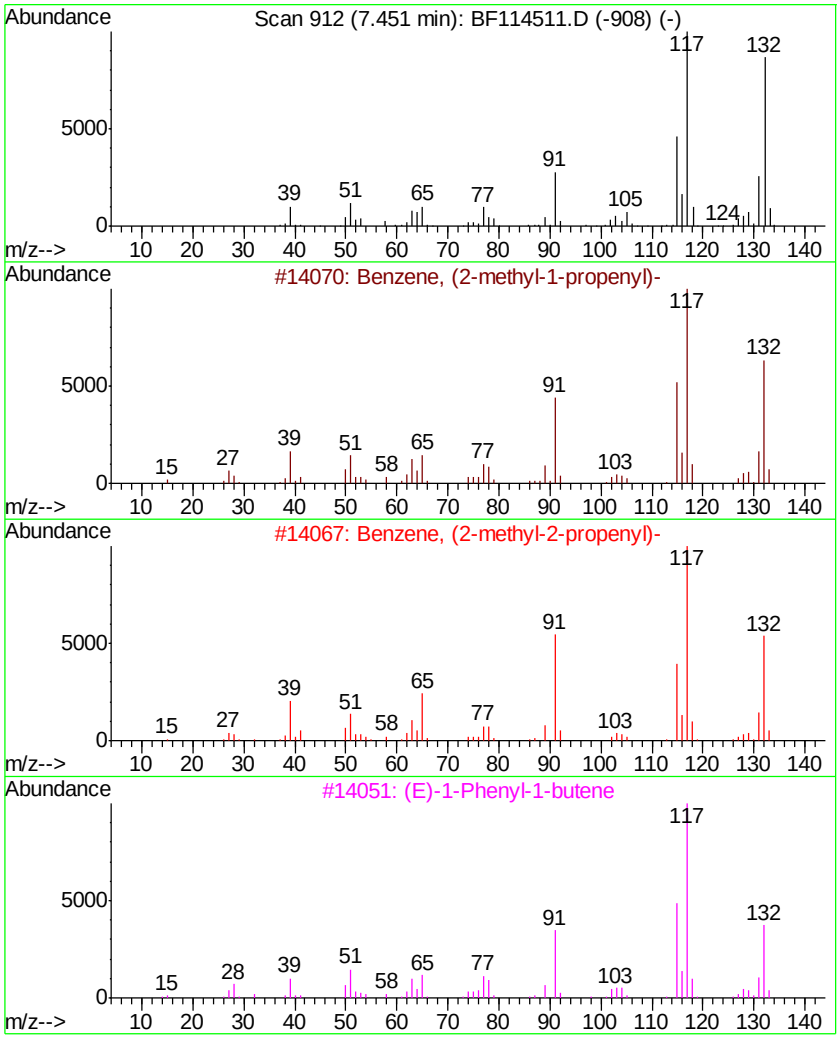
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

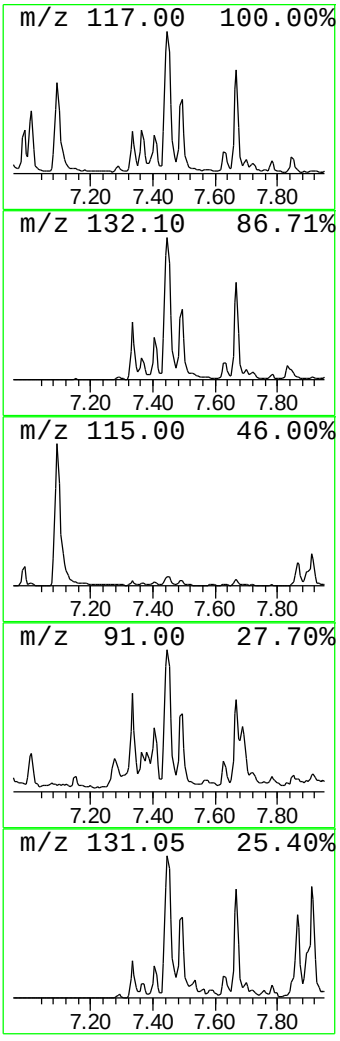
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 7 Benzene, (2-methyl-1-propen... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.45	17.01 ng	1044390	1,4-Dichlorobenzene-d4	6.83

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	95
2	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	95
3	(E)-1-Phenyl-1-butene	132	C10H12	001005-64-7	95
4	Benzene, 2-ethenyl-1,3-dimethyl-	132	C10H12	002039-90-9	95
5	Benzene, 4-ethenyl-1,2-dimethyl-	132	C10H12	027831-13-6	95





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Sample : K2951-09 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14-S

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

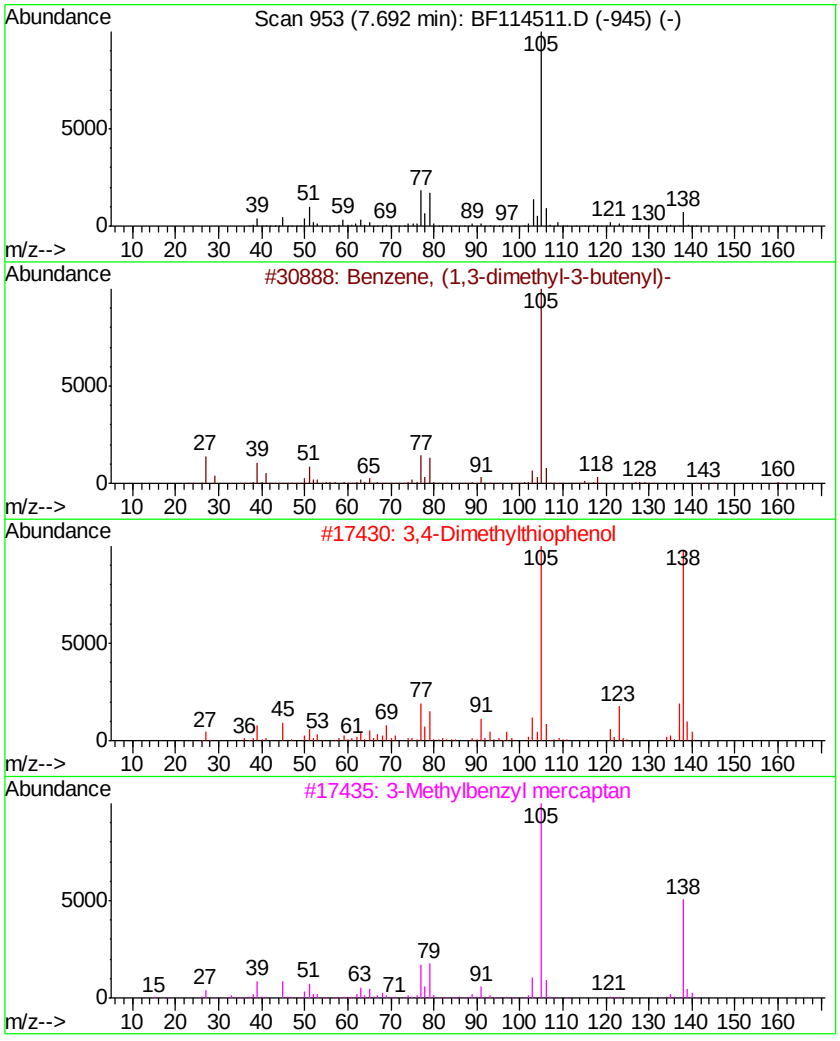
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

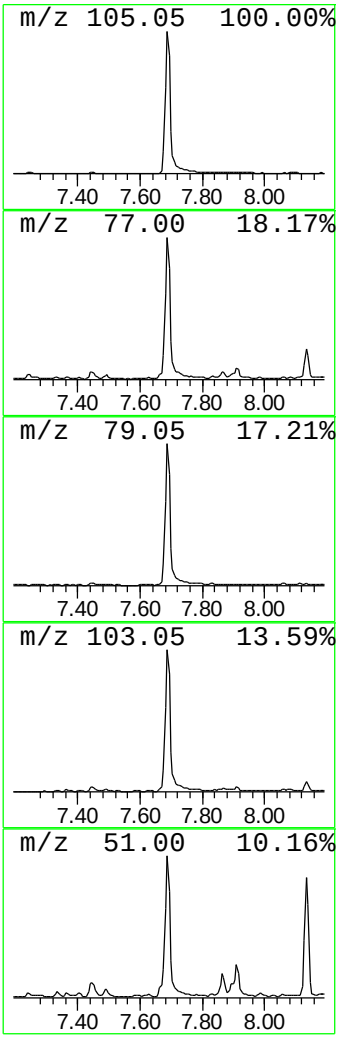
****

Peak Number 8 Benzene, (1,3-dimethyl-3-bu... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.69	78.45 ng	6114890	Naphthalene-d8	8.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1,3-dimethyl-3-butenyl)-	160	C12H16	056851-51-5	72
2	3,4-Dimethylthiophenol	138	C8H10S	018800-53-8	64
3	3-Methylbenzyl mercaptan	138	C8H10S	025697-56-7	64
4	Benzene, (1-bromoethyl)-	184	C8H9Br	000585-71-7	64
5	Phenol, o-[(.alpha.-methylbenzyl...	262	C14H14O3S	029634-38-6	64





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Sample : K2951-09 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14-S

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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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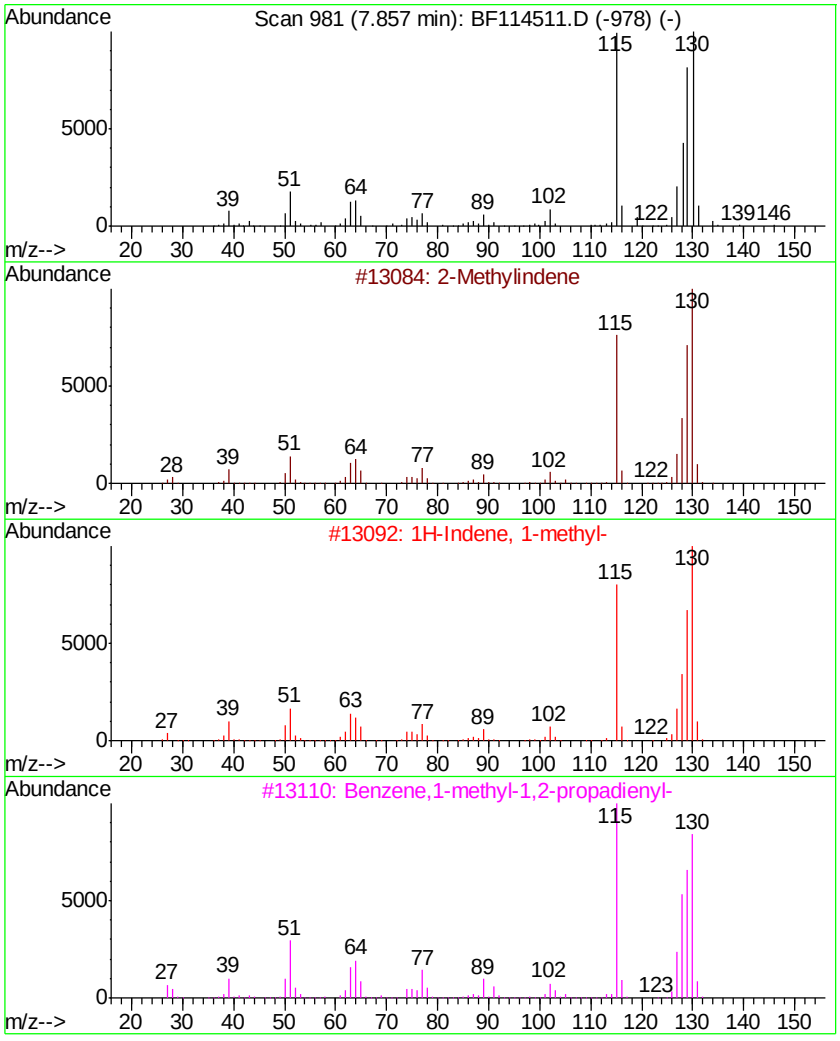
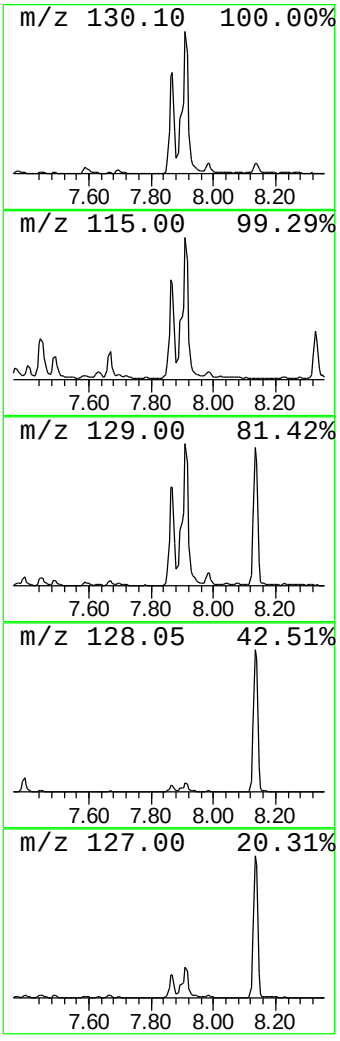
Peak Number 9 2-Methylindene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.86	14.42 ng	1123640	Naphthalene-d8	8.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Methylindene	130	C10H10	002177-47-1	96
2	1H-Indene, 1-methyl-	130	C10H10	000767-59-9	96
3	Benzene,1-methyl-1,2-propadienyl-	130	C10H10	022433-39-2	95
4	Benzene, 1-butynyl-	130	C10H10	000622-76-4	94
5	Cycloprop[a]indene, 1,1a,6,6a-te...	130	C10H10	015677-15-3	93





Library Search Compound Report

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Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14-S

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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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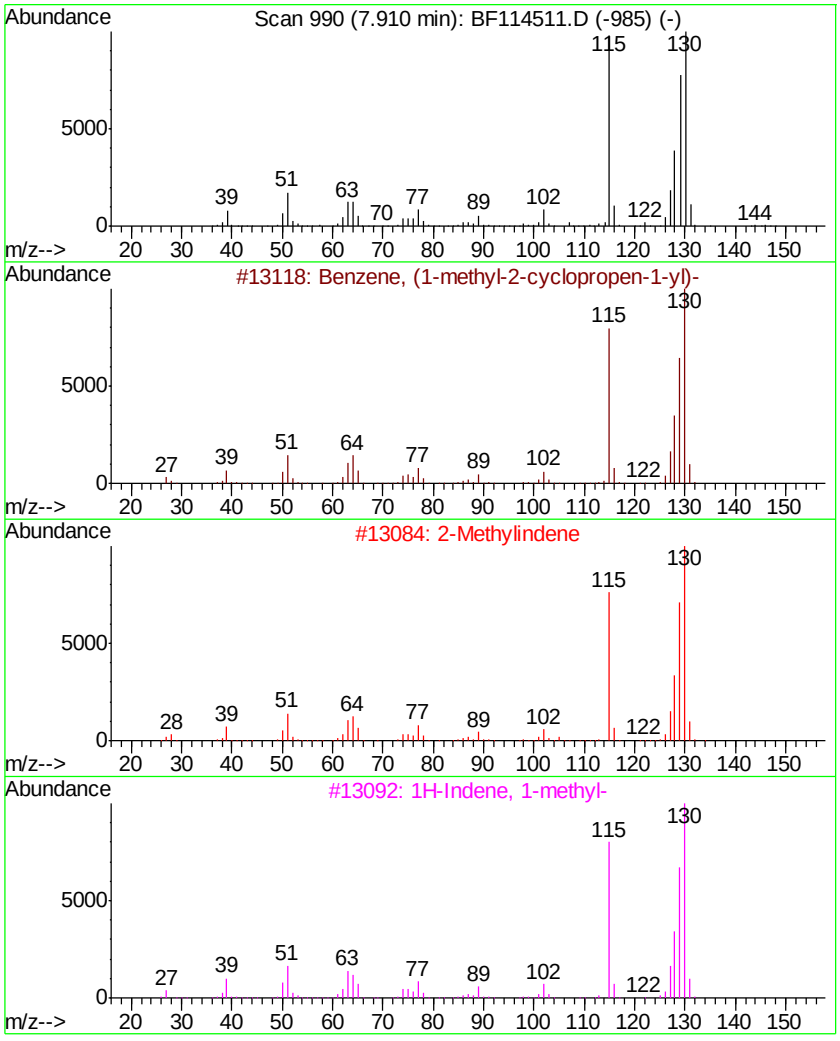
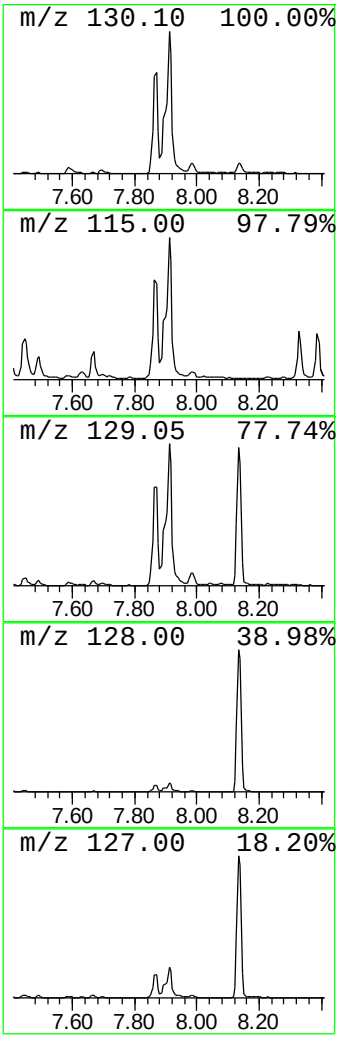
Peak Number 10 Benzene, (1-methyl-2-cyclop... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.91	25.21 ng	1965290	Naphthalene-d8	8.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methyl-2-cyclopropen...	130	C10H10	065051-83-4	97
2	2-Methylindene	130	C10H10	002177-47-1	97
3	1H-Indene, 1-methyl-	130	C10H10	000767-59-9	96
4	Benzene,1-methyl-1,2-propadienyl-	130	C10H10	022433-39-2	95
5	Benzene, 1-butynyl-	130	C10H10	000622-76-4	95





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Operator : JU/SJ
Sample : K2951-09 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14-S

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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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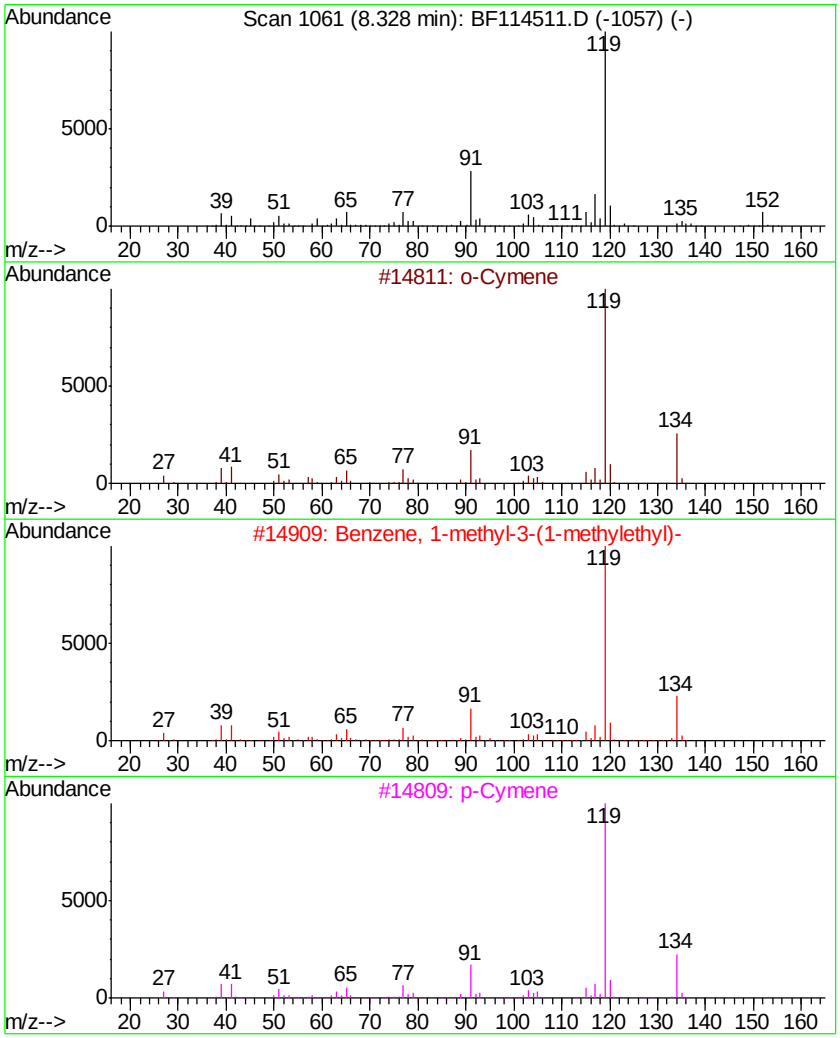
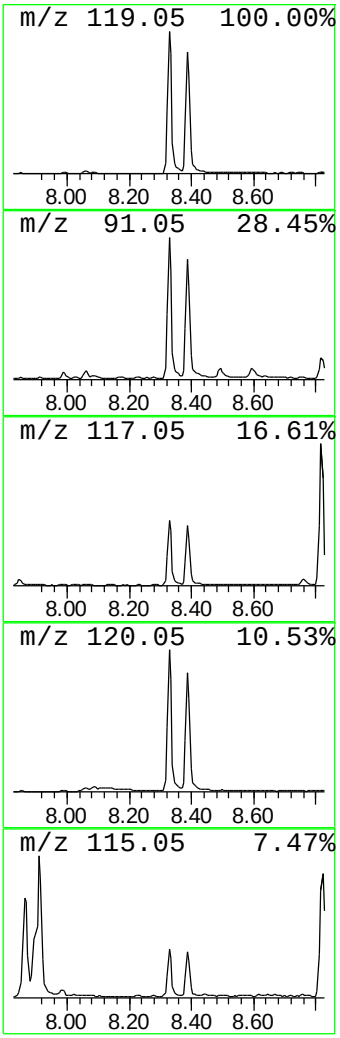
Peak Number 11 o-Cymene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.33	44.43 ng	3463250	Naphthalene-d8	8.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	87
2	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	87
3	p-Cymene	134	C10H14	000099-87-6	87
4	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	80
5	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	80





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Operator : JU/SJ
Sample : K2951-09 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14-S

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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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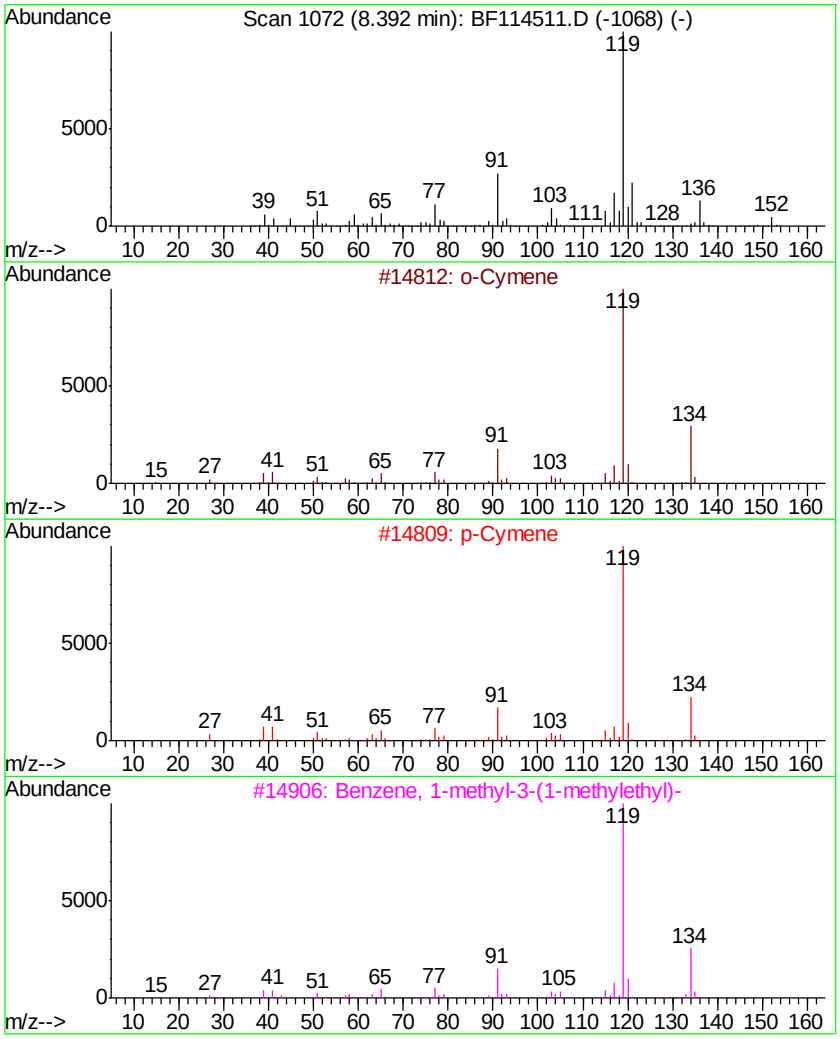
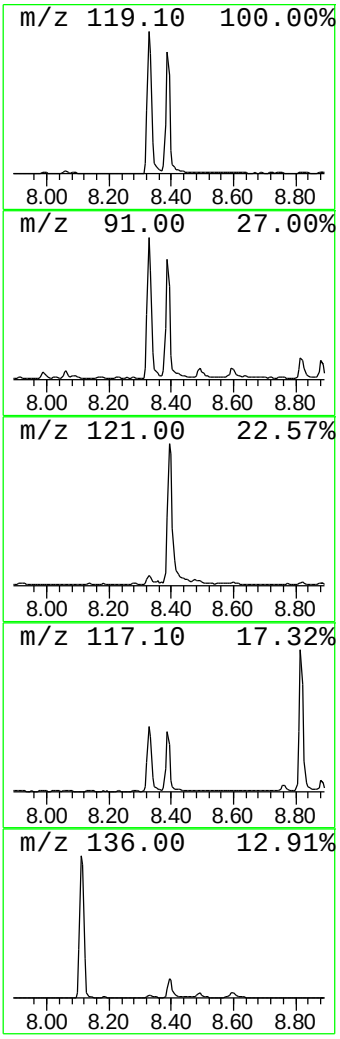
Peak Number 12 p-Cymene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.39	45.72 ng	3563670	Naphthalene-d8	8.11

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	81
2	p-Cymene	134	C10H14	000099-87-6	74
3	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	74
4	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	72
5	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	72





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Operator : JU/SJ
Sample : K2951-09 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14-S

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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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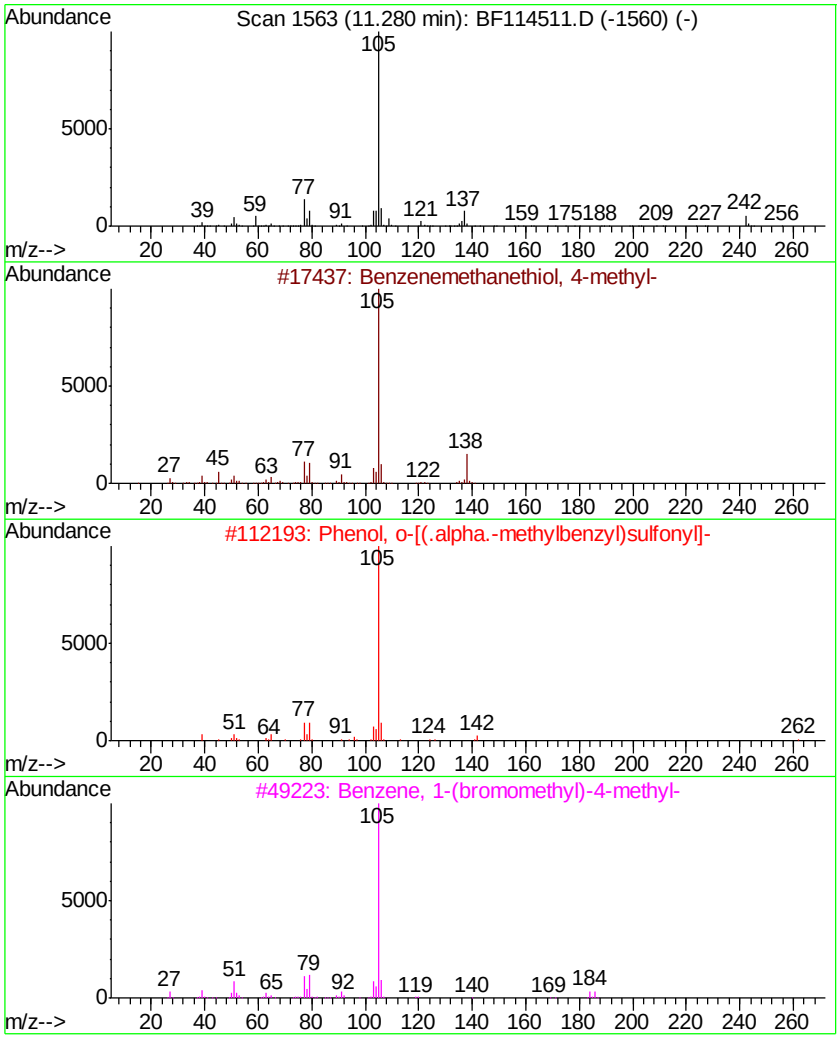
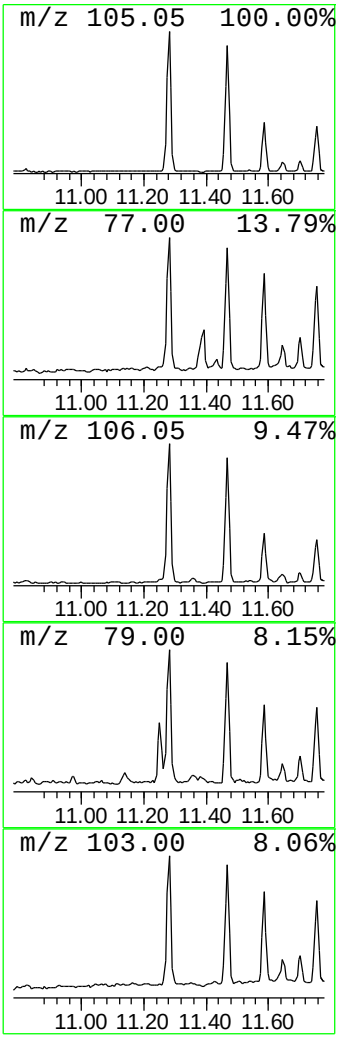
Peak Number 13 Benzenemethanethiol, 4-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.28	15.85 ng	1373670	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenemethanethiol, 4-methyl-	138	C8H10S	004498-99-1	53
2	Phenol, o-[(.alpha.-methylbenzyl...	262	C14H14O3S	029634-38-6	50
3	Benzene, 1-(bromomethyl)-4-methyl-	184	C8H9Br	000104-81-4	50
4	Etomidate	244	C14H16N2O2	033125-97-2	50
5	Ethane, 1-(9-borabicyclo[3.3.1]n...	242	C16H23BO	1000160-80-6	50





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Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14-S

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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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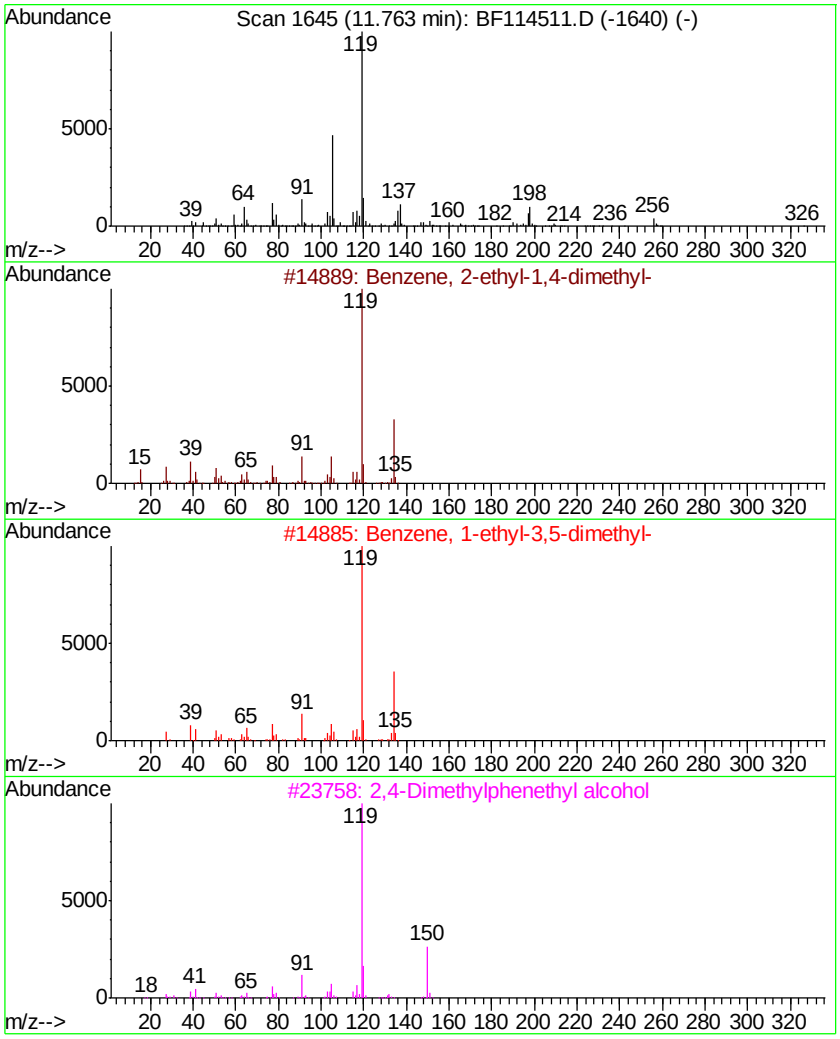
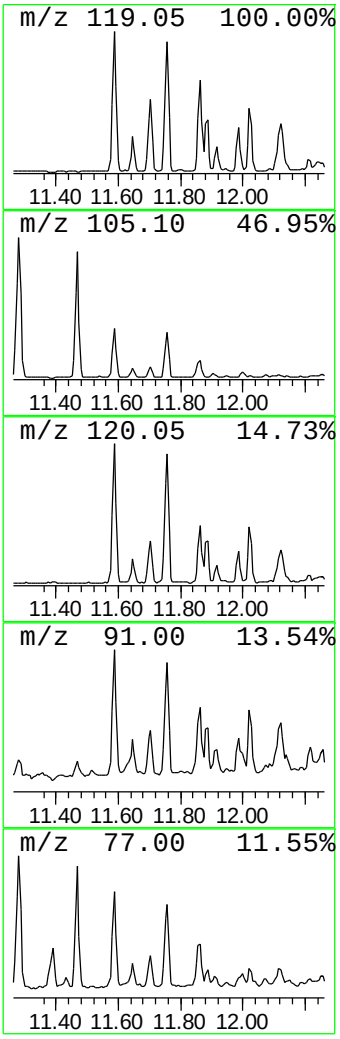
Peak Number 14 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.76	17.97 ng	1557030	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	72
2	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	64
3	2,4-Dimethylphenethyl alcohol	150	C10H14O	006597-59-7	64
4	Benzoic acid, 2,4-dimethyl-, (2,...	268	C18H20O2	055000-43-6	64
5	o-Cymene	134	C10H14	000527-84-4	59





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Misc :
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Instrument : BNA_F
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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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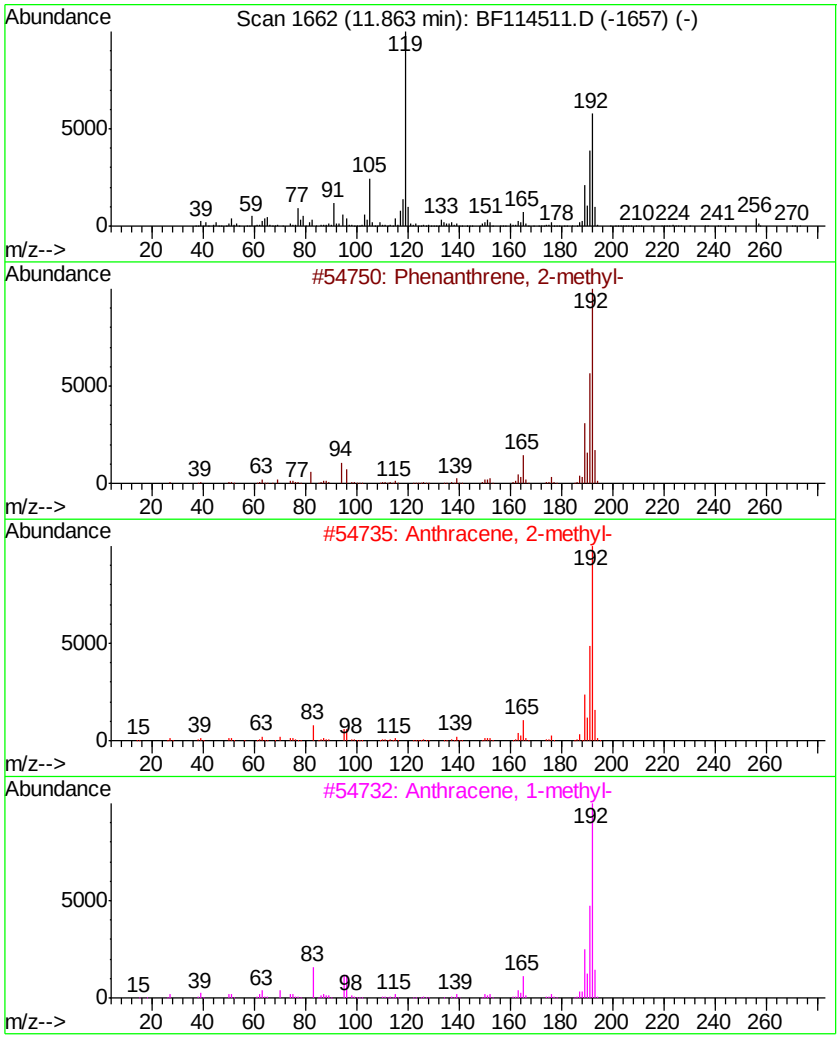
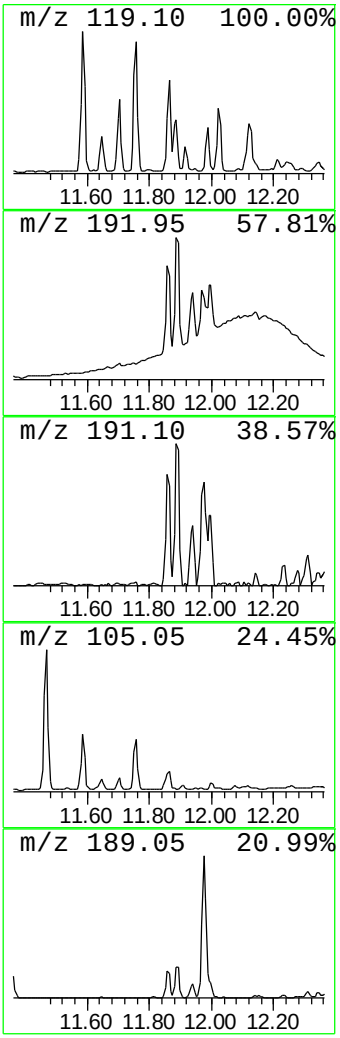
Peak Number 15 Phenanthrene, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	21.70 ng	1880320	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	59
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	56
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	55
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	55
5	Ethyl 3,5-dimethylphenylacetate	192	C12H16O2	105337-18-6	49





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ClientSampleId : TP-14-S

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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TIC Integration Parameters: LSCINT.P

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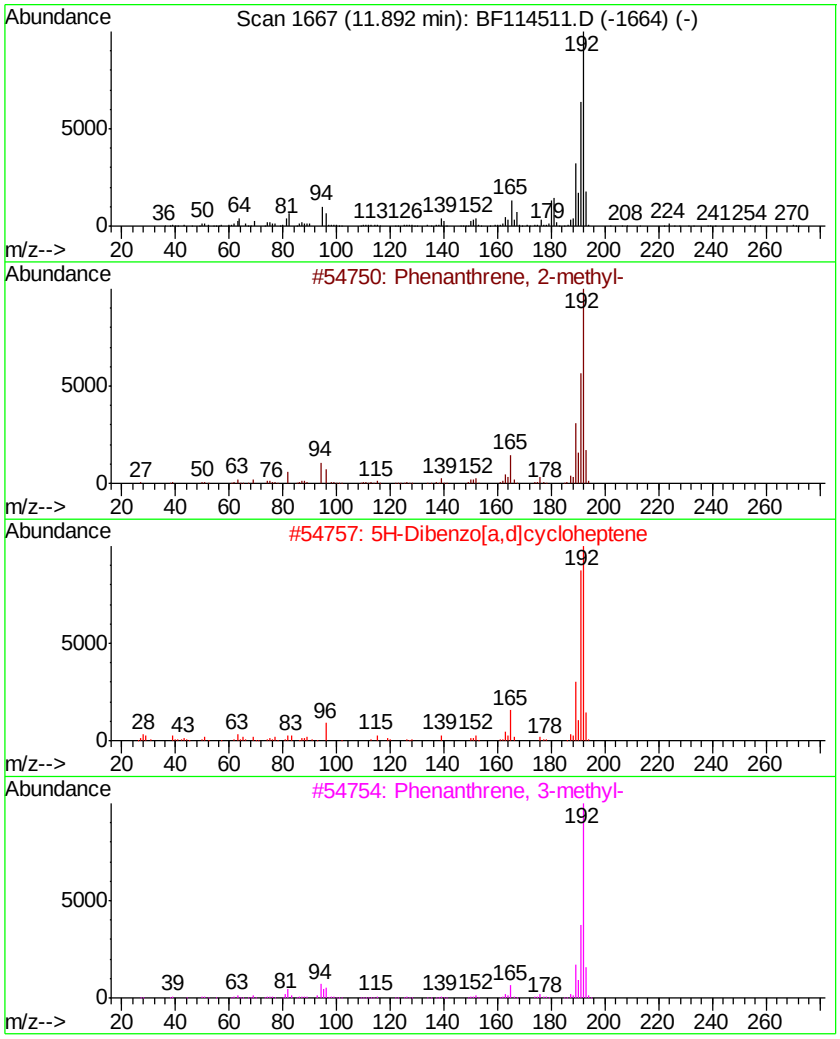
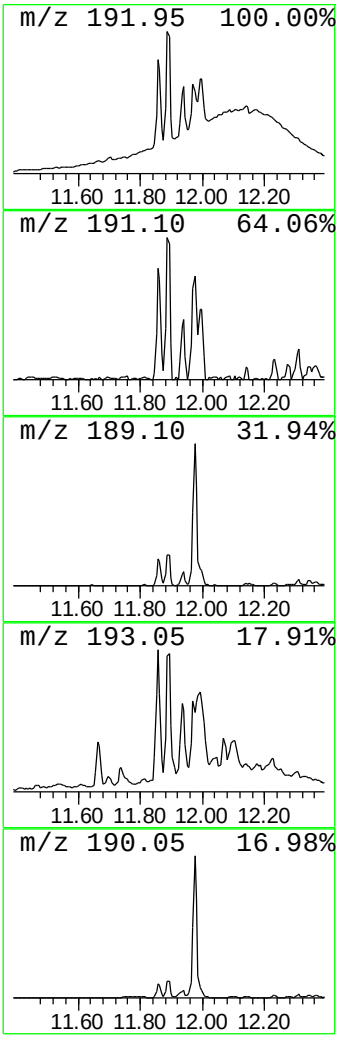
Peak Number 16 5H-Dibenzo[a,d]cycloheptene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	14.15 ng	1226500	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	92
3	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	91
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	83
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	83





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TIC Library : C:\DATABASE\NIST11.L
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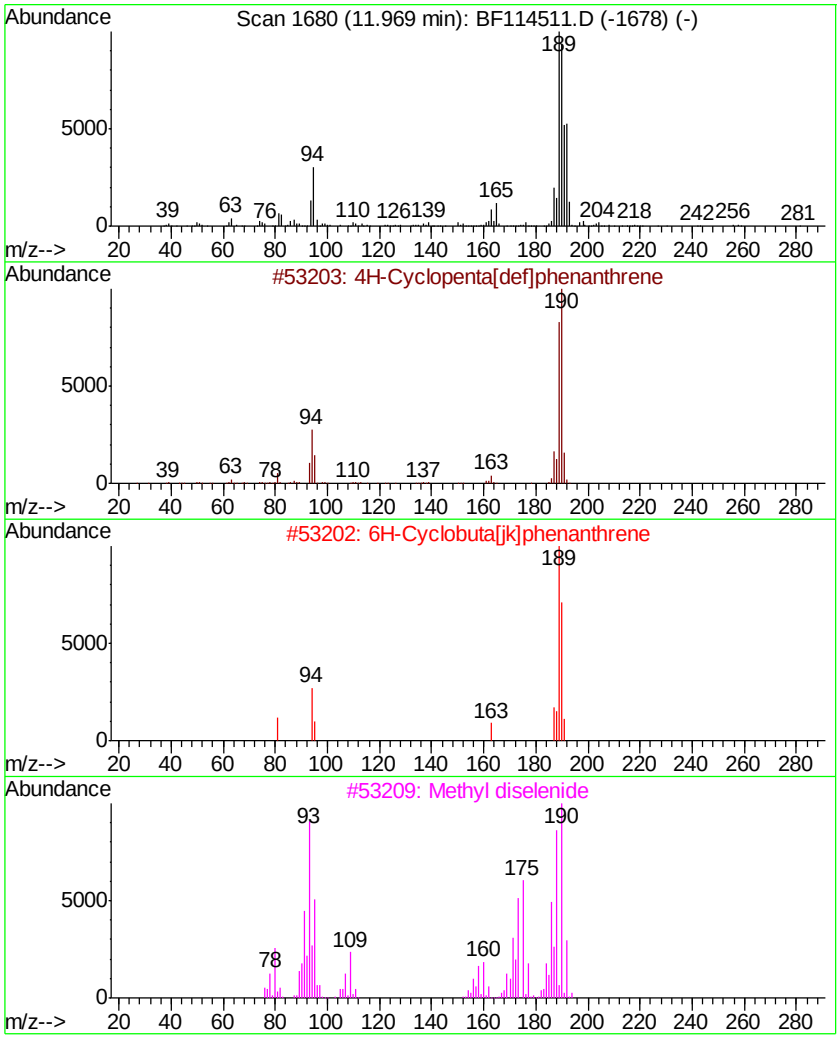
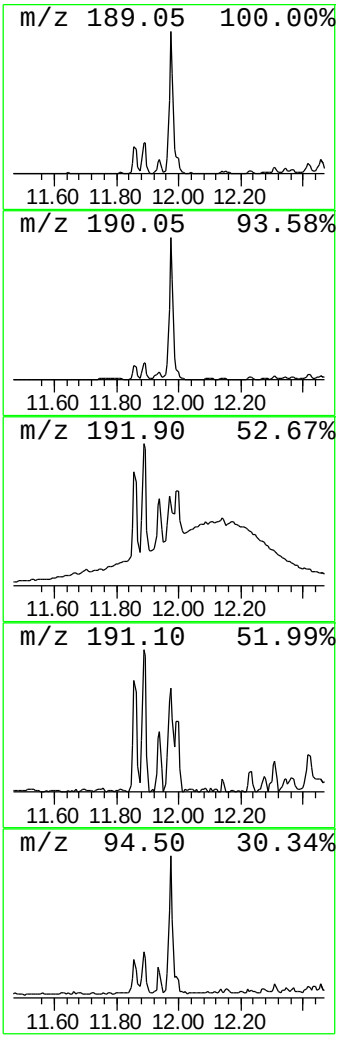
Peak Number 17 4H-Cyclopenta[def]phenanthrene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.97	20.14 ng	1745580	Phenanthrene-d10	11.36

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	72
3	Methyl diselenide	190	C2H6Se2	007101-31-7	49
4	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	40
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	33





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114511.D
Acq On : 23 May 2019 3:52
Operator : JU/SJ
Sample : K2951-09 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

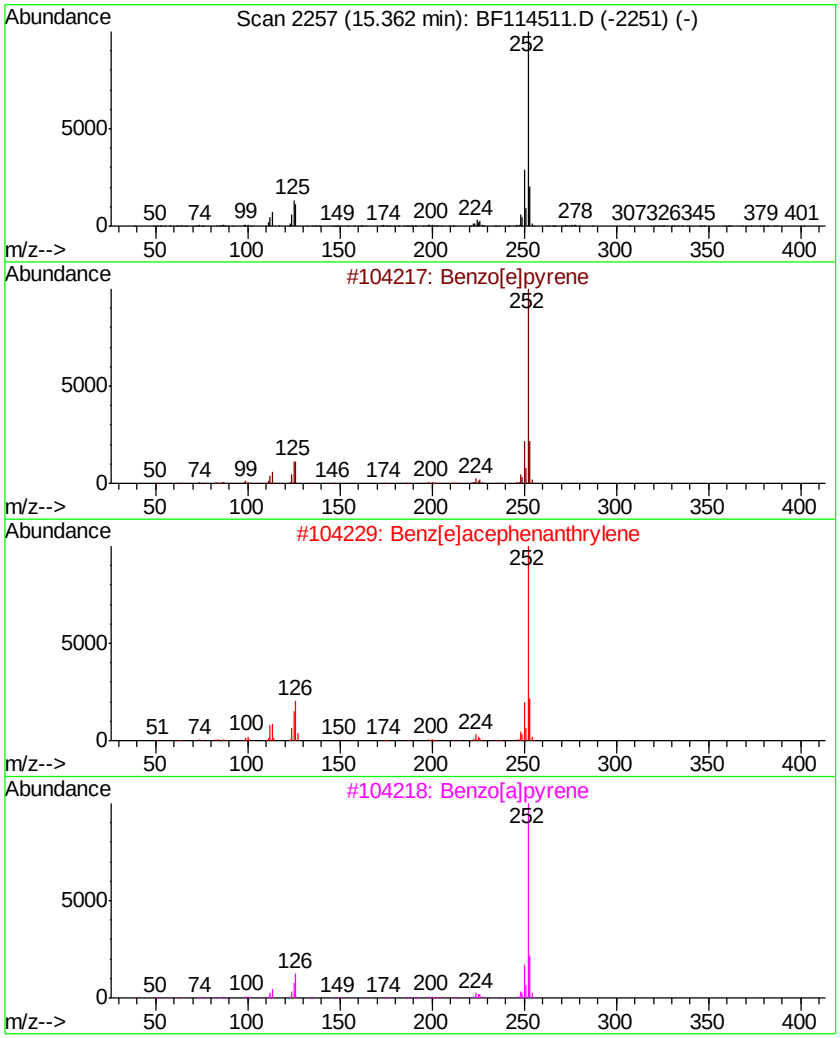
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

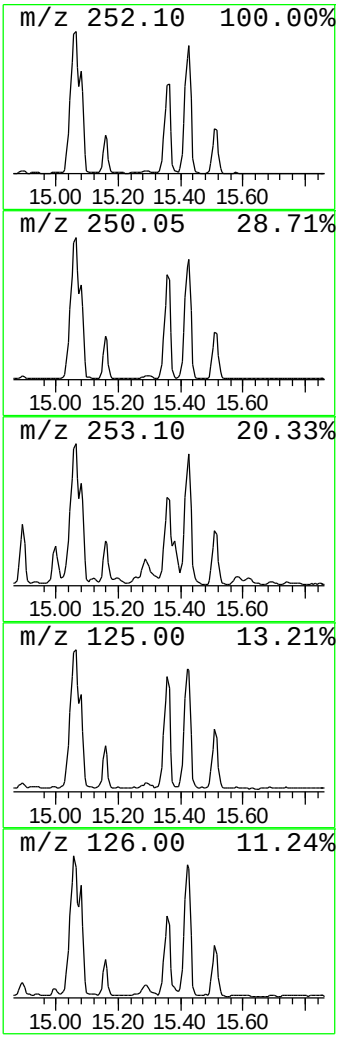
****

Peak Number 19 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.36	69.44 ng	2884900	Perylene-d12	15.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
3	Benzo[a]pyrene	252	C20H12	000050-32-8	93
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	89
5	Perylene	252	C20H12	000198-55-0	87





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114511.D
Acq On : 23 May 2019 3:52
Operator : JU/SJ
Sample : K2951-09 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

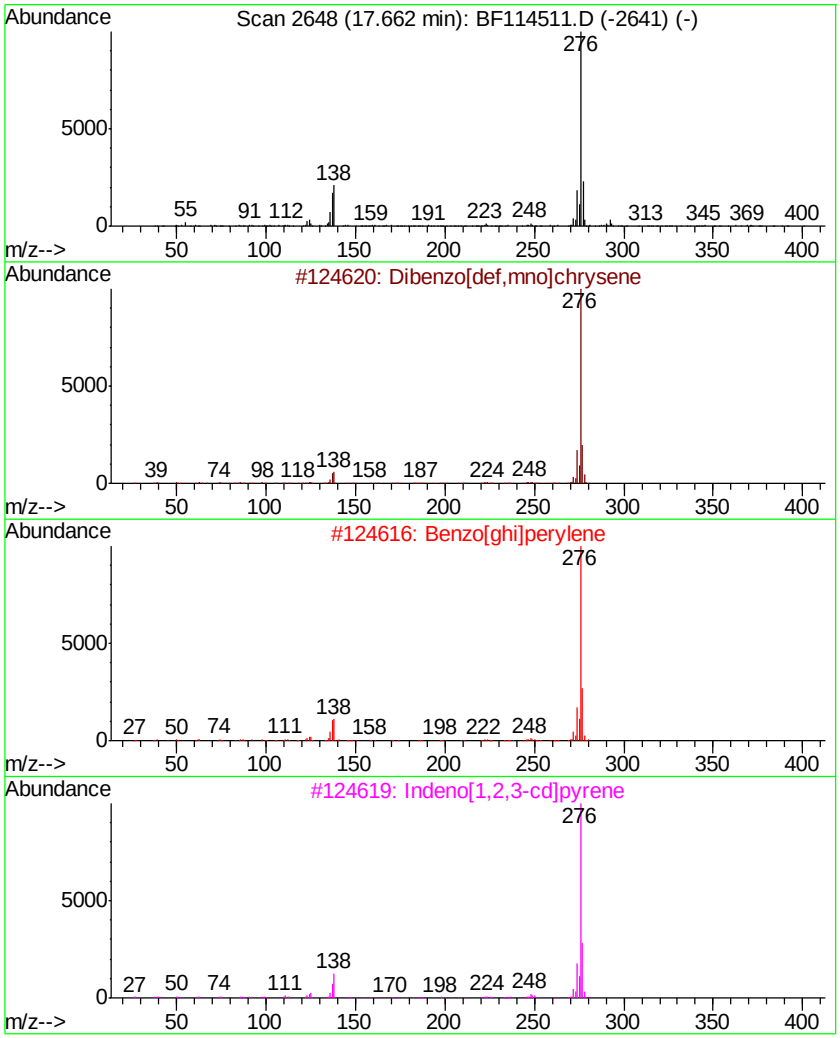
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

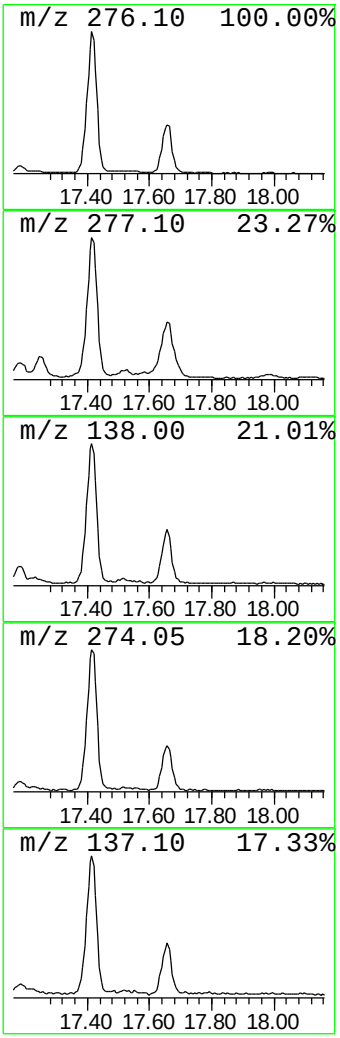
****

Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.66	23.88 ng	991961	Perylene-d12	15.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	97
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	96
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	86
4	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	72
5	Phenol, 2-(4-chlorophenyliminome...	276	C13H9ClN2O3	1000262-90-3	53





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF052219\
Data File : BF114511.D
Acq On : 23 May 2019 3:52
Operator : JU/SJ
Sample : K2951-09 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP-14-S

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.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
1,3,5,7-Cycloocta...	5.66	66.6	ng	4090200	1	6.83	1228050	20.0
unknown6.60	6.60	27.8	ng	1706220	1	6.83	1228050	20.0
Benzene, 1-etheny...	6.66	63.8	ng	3919910	1	6.83	1228050	20.0
Benzene, 1-etheny...	6.70	39.5	ng	2422340	1	6.83	1228050	20.0
Indene	7.09	79.0	ng	4850800	1	6.83	1228050	20.0
Benzene, (2-methy...	7.45	17.0	ng	1044390	1	6.83	1228050	20.0
Benzene, (1,3-dim...	7.69	78.5	ng	6114890	2	8.11	1558880	20.0
2-Methylindene	7.86	14.4	ng	1123640	2	8.11	1558880	20.0
Benzene, (1-methy...	7.91	25.2	ng	1965290	2	8.11	1558880	20.0
o-Cymene	8.33	44.4	ng	3463250	2	8.11	1558880	20.0
p-Cymene	8.39	45.7	ng	3563670	2	8.11	1558880	20.0
Benzenemethanethi...	11.28	15.9	ng	1373670	4	11.36	1733370	20.0
Benzene, 2-ethyl-...	11.76	18.0	ng	1557030	4	11.36	1733370	20.0
Phenanthrene, 2-m...	11.86	21.7	ng	1880320	4	11.36	1733370	20.0
5H-Dibenzo[a,d]cy...	11.89	14.2	ng	1226500	4	11.36	1733370	20.0
4H-Cyclopenta[def...	11.97	20.1	ng	1745580	4	11.36	1733370	20.0
Benzo[e]pyrene	15.36	69.4	ng	2884900	6	15.48	830848	20.0
Dibenzo[def,mno]c...	17.66	23.9	ng	991961	6	15.48	830848	20.0