LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118879.D
Acq On : 10 Feb 2020 20:17
Operator : CG/JU
Sample : L1468-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP10-EP2-3

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-BF020320.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	5.440	565	570	585	rVB	3449678	3806371	14.87%	0.911%
2	6.451	738	742	748	rVV	3744021	3716871	14.52%	0.890%
3	6.810	800	803	807	rBV	1369305	1235643	4.83%	0.296%
4	6.969	826	830	833	rBV	3672546	3521983	13.76%	0.843%
5	7.375	892	899	902	rBV	2764765	2834184	11.07%	0.678%
6	7.839	972	978	982	rBV3	969424	1328314	5.19%	0.318%
7	7.881	982	985	993	rVV	940517	1318657	5.15%	0.316%
8	8.128	1017	1027	1030	rBV2	10940678	17358305	67.80%	4.155%
9	8.169	1030	1034	1041	rVB	2010153	1674865	6.54%	0.401%
10	8.810	1138	1143	1147	rBV	6887933	7118768	27.80%	1.704%
11	8.910	1154	1160	1164	rVB	6733055	7729904	30.19%	1.850%
12	9.169	1199	1204	1208	rBV	6548173	6526829	25.49%	1.562%
13	9.275	1215	1222	1227	rVB	3250308	3383773	13.22%	0.810%
14	9.369	1235	1238	1243	rVB	1957121	2379206	9.29%	0.570%
15	9.439	1243	1250	1253	rBV	3926955	5514277	21.54%	1.320%
16	9.516	1258	1263	1265	rBV	5278032	6303060	24.62%	1.509%
17	9.539	1265	1267	1270	rVV	4145645	3423430	13.37%	0.820%
18	9.628	1276	1282	1291	rVB	2931521	3683407	14.39%	0.882%
19	9.716	1291	1297	1300	rBV	6410174	6345644	24.79%	1.519%
20	9.833	1314	1317	1318	rBV	1624467	1348657	5.27%	0.323%
21	9.851	1318	1320	1322	rVV	2007549	1629279	6.36%	0.390%
22	9.886	1322	1326	1329	rVB	6528261	6517529	25.46%	1.560%
23	9.957	1334	1338	1342	rBV2	1093004	1422530	5.56%	0.341%
24	10.057	1351	1355	1358	rVB2	5518067	5770255	22.54%	1.381%
25	10.092	1358	1361	1364	rVB	1564695	1299280	5.07%	0.311%
26	10.169	1369	1374	1377	rBV3	1495657	1957400	7.65%	0.469%
27	10.257	1385	1389	1391	rBV2	942755	1374426	5.37%	0.329%
28	10.351	1400	1405	1407	rBV4	824818	1296964	5.07%	0.310%
29	10.410	1410	1415	1419	rVB	7886391	9610017	37.54%	2.300%
30	10.463	1419	1424	1426	rBV2	781089	1144876	4.47%	0.274%
31	10.557	1436	1440	1443	rBV	1707431	1591366	6.22%	0.381%
32	10.622	1447	1451	1452	rBV	1691005	1554780	6.07%	0.372%
33	10.645	1452	1455	1458	rVB	4648972	4952984	19.35%	1.186%
34	10.763	1471	1475	1481	rVB3	1590327	1810700	7.07%	0.433%

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118879.D
Acq On : 10 Feb 2020 20:17
Operator : CG/JU
Sample : L1468-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP10-EP2-3

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-BF020320.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.945	1501	1506	1509	rBV2	2350375	3042256	11.88%	0.728%
36	10.975	1509	1511	1514	rVV	1540066	1374040	5.37%	0.329%
37	11.027	1517	1520	1523	rVV	1476395	1400051	5.47%	0.335%
38	11.098	1530	1532	1538	rVV2	966450	1343021	5.25%	0.321%
39	11.145	1538	1540	1544	rVV2	1215247	1192774	4.66%	0.286%
40	11.186	1544	1547	1552	rVV3	829981	1295358	5.06%	0.310%
41	11.239	1552	1556	1562	rVB	4534477	5216461	20.37%	1.249%
42	11.386	1569	1581	1584	rBV	11814036	25602527	100.00%	6.129%
43	11.427	1584	1588	1590	rVV	7885602	8174682	31.93%	1.957%
44	11.451	1590	1592	1595	rVB	1574695	1396613	5.45%	0.334%
45	11.569	1609	1612	1615	rBV	2550535	2309821	9.02%	0.553%
46	11.633	1620	1623	1626	rVV	1550617	1290730	5.04%	0.309%
47	11.675	1626	1630	1634	rVB2	2619137	2514437	9.82%	0.602%
48	11.757	1640	1644	1647	rVB	2151584	2554189	9.98%	0.611%
49	11.845	1655	1659	1661	rBV	4659613	5049201	19.72%	1.209%
50	11.874	1661	1664	1669	rVB	6050026	6168358	24.09%	1.477%
51	11.922	1669	1672	1675	rBV	2373720	2528317	9.88%	0.605%
52	11.963	1675	1679	1681	rBV	6968163	8743962	34.15%	2.093%
53	12.139	1705	1709	1711	rBV	3185062	3090809	12.07%	0.740%
54	12.169	1711	1714	1719	rVB2	1372910	1733081	6.77%	0.415%
55	12.322	1737	1740	1742	rBV	1289626	1387666	5.42%	0.332%
56	12.398	1748	1753	1755	rBV	3420049	4223494	16.50%	1.011%
57	12.433	1755	1759	1761	rVV2	2008567	2465862	9.63%	0.590%
58	12.492	1765	1769	1773	rVB3	1718835	2466675	9.63%	0.590%
59	12.574	1777	1783	1786	rVB	9628250	16605838	64.86%	3.975%
60	12.657	1793	1797	1801	rVB	3459706	3445866	13.46%	0.825%
61	12.710	1802	1806	1808	rBV	1772525	1887048	7.37%	0.452%
62	12.810	1815	1823	1825	rBV2	10055769	19598743	76.55%	4.692%
63	12.839	1825	1828	1832	rVB2	1627111	2040330	7.97%	0.488%
64	12.904	1836	1839	1840	rBV2	1502533	1453301	5.68%	0.348%
65	12.921	1840	1842	1845	rVB	3694114	3475866	13.58%	0.832%
66	13.004	1851	1856	1859	rBV2	2374463	3790461	14.81%	0.907%
67	13.092	1867	1871	1872	rVV2	2132529	2605104	10.18%	0.624%
68	13.116	1872	1875	1878	rVB	4712758	5394074	21.07%	1.291%
69	13.186	1883	1887	1889	rVV	4345042	4766365	18.62%	1.141%
70	13.221	1889	1893	1897	rVV2	3212470	3716878	14.52%	0.890%
71	13.310	1905	1908	1911	rVV	2162350	2217347	8.66%	0.531%

LSC Area Percent Report

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Acq On : 10 Feb 2020 20:17
Operator : CG/JU
Sample : L1468-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP10-EP2-3

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-BF020320.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.345	1911	1914	1916	rVB	2266467	2236798	8.74%	0.535%
73	13.592	1953	1956	1959	rBV	861725	1225772	4.79%	0.293%
74	13.733	1975	1980	1982	rBV	2367889	2915854	11.39%	0.698%
75	13.757	1982	1984	1986	rVB	2040471	1603689	6.26%	0.384%
76	13.786	1986	1989	1992	rBV2	1441849	1600264	6.25%	0.383%
77	13.986	2016	2023	2025	rBV2	7841335	13717636	53.58%	3.284%
78	14.021	2025	2029	2034	rVB	7582565	9704830	37.91%	2.323%
79	14.127	2044	2047	2052	rVV2	1479206	2078621	8.12%	0.498%
80	14.204	2057	2060	2064	rBV2	1248702	1735616	6.78%	0.415%
81	14.368	2084	2088	2091	rVB	2583114	2605596	10.18%	0.624%
82	14.398	2091	2093	2096	rVB	1461026	1395282	5.45%	0.334%
83	14.492	2107	2109	2111	rBV2	1434316	1430816	5.59%	0.343%
84	14.515	2111	2113	2116	rVB2	2265576	2011734	7.86%	0.482%
85	14.557	2117	2120	2124	rVB2	1114555	1181440	4.61%	0.283%
86	14.857	2168	2171	2178	rBV3	967024	1419991	5.55%	0.340%
87	15.033	2193	2201	2204	rBV	7181083	16973474	66.30%	4.063%
88	15.074	2207	2208	2213	rVV2	1138496	1420952	5.55%	0.340%
89	15.127	2213	2217	2221	rVB	3309329	4103896	16.03%	0.982%
90	15.327	2245	2251	2256	rVB	4504059	7743373	30.24%	1.854%
91	15.404	2256	2264	2267	rVV2	6822384	12685589	49.55%	3.037%
92	15.445	2268	2271	2273	rVV	1716342	1954963	7.64%	0.468%
93	15.480	2273	2277	2282	rVB2	3171520	4484309	17.52%	1.073%
94	15.874	2339	2344	2347	rBV2	692267	1096733	4.28%	0.263%
95	15.998	2361	2365	2369	rVB	1212565	1648974	6.44%	0.395%
96	16.904	2510	2519	2524	rVB	2969209	6656040	26.00%	1.593%
97	17.057	2539	2545	2550	rVV	740889	1665121	6.50%	0.399%
98	17.115	2551	2555	2577	rVB3	767232	2938255	11.48%	0.703%
99	17.345	2584	2594	2603	rVB	2077511	4991512	19.50%	1.195%
100	17.568	2625	2632	2646	rVB2	985696	2464940	9.63%	0.590%

Sum of corrected areas: 417738210

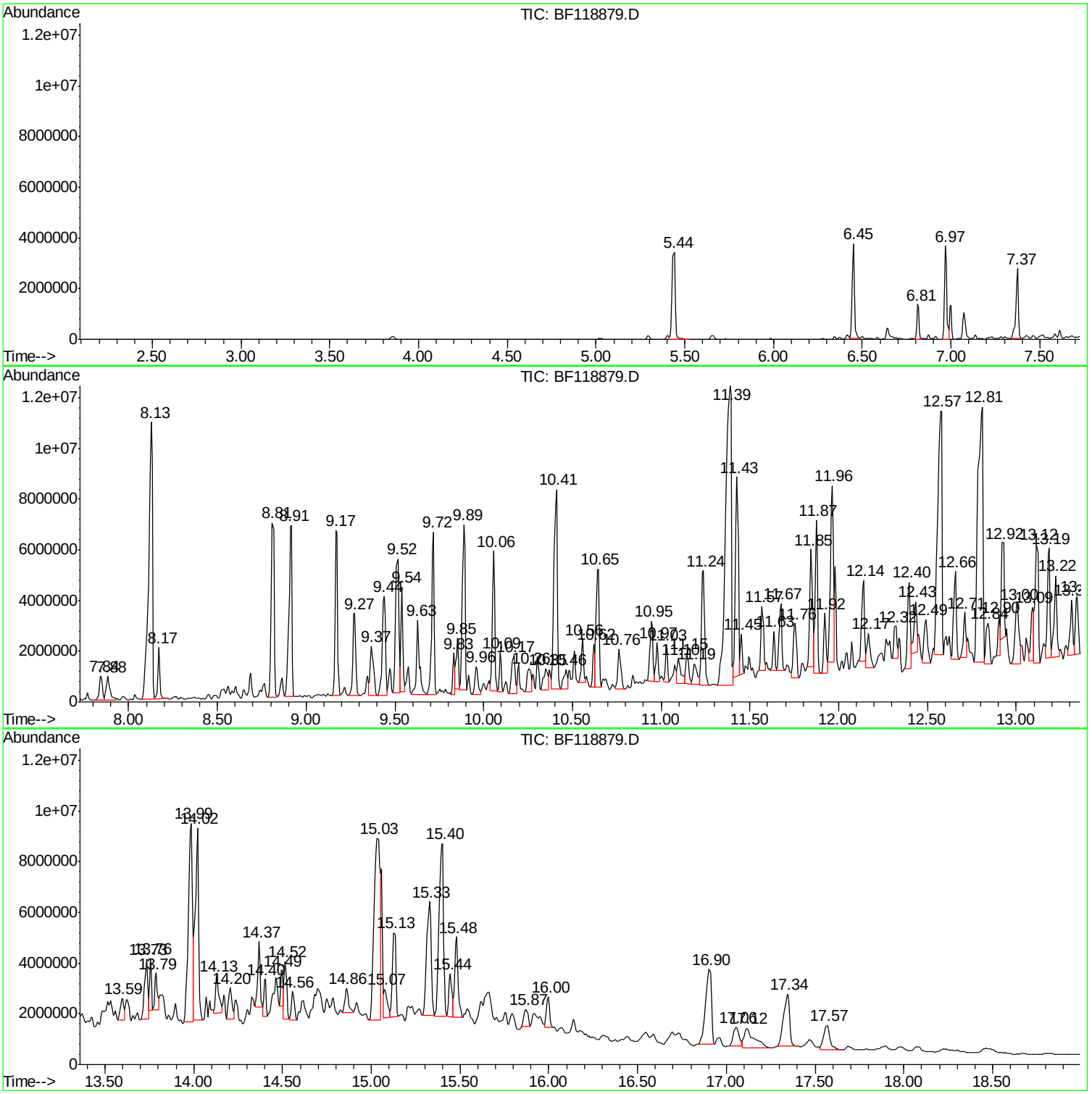
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118879.D
Acq On : 10 Feb 2020 20:17
Operator : CG/JU
Sample : L1468-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP10-EP2-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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\BF021020\
Data File : BF118879.D
Acq On : 10 Feb 2020 20:17
Operator : CG/JU
Sample : L1468-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP10-EP2-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

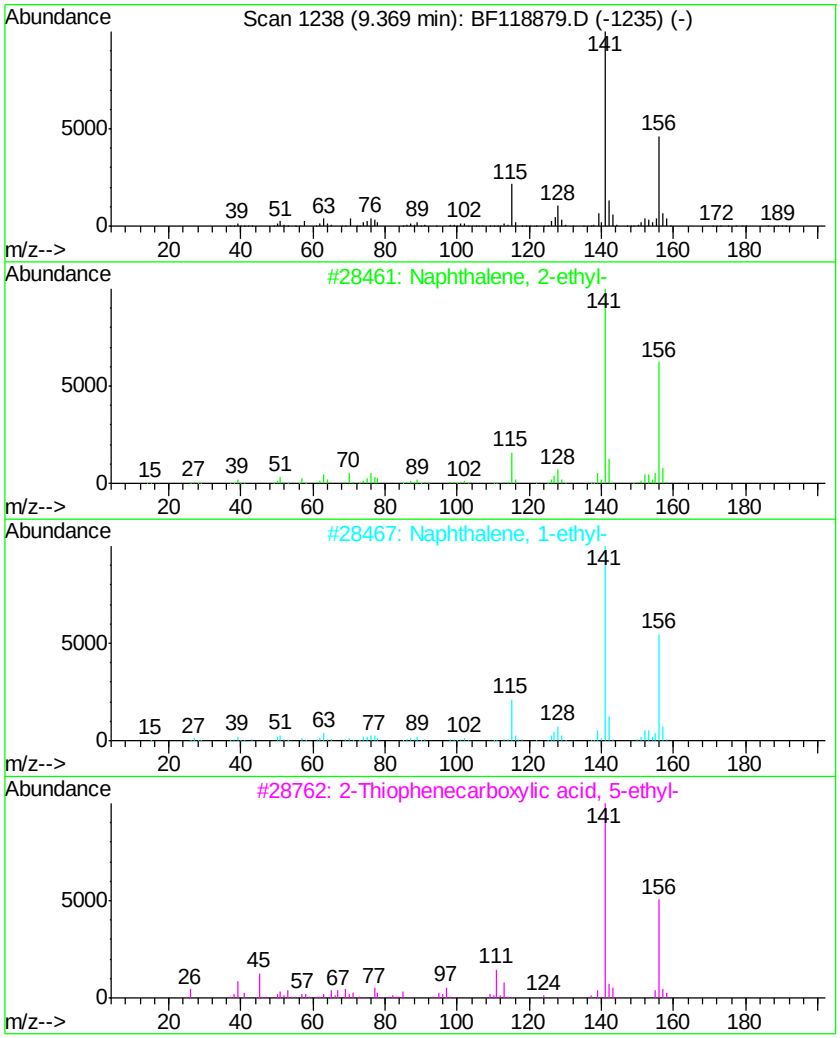
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

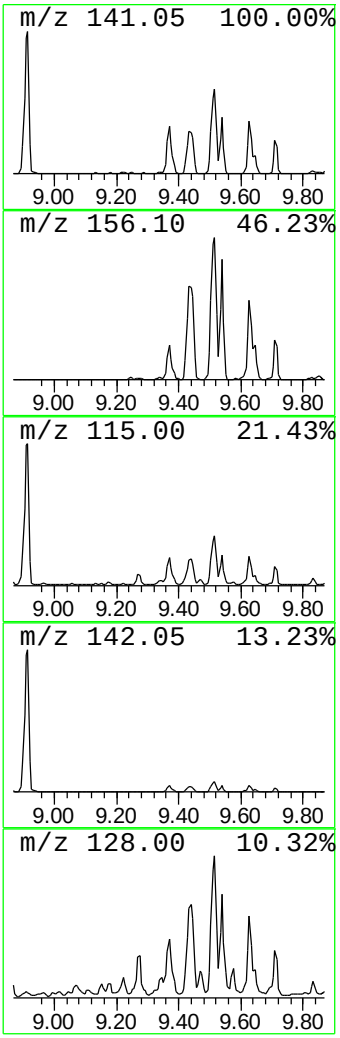
****

Peak Number 2 Naphthalene, 2-ethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.37	29.21 ng	2379210	Acenaphthene-d10	9.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	95
2	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	93
3	2-Thiophenecarboxylic acid, 5-et...	156	C7H8O2S	023229-72-3	64
4	3',4'-Difluoroacetophenone	156	C8H6F2O	000369-33-5	53
5	5-Acetyl-2-amino-4-methylthiazole	156	C6H8N2OS	030748-47-1	53





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118879.D
Acq On : 10 Feb 2020 20:17
Operator : CG/JU
Sample : L1468-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP10-EP2-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

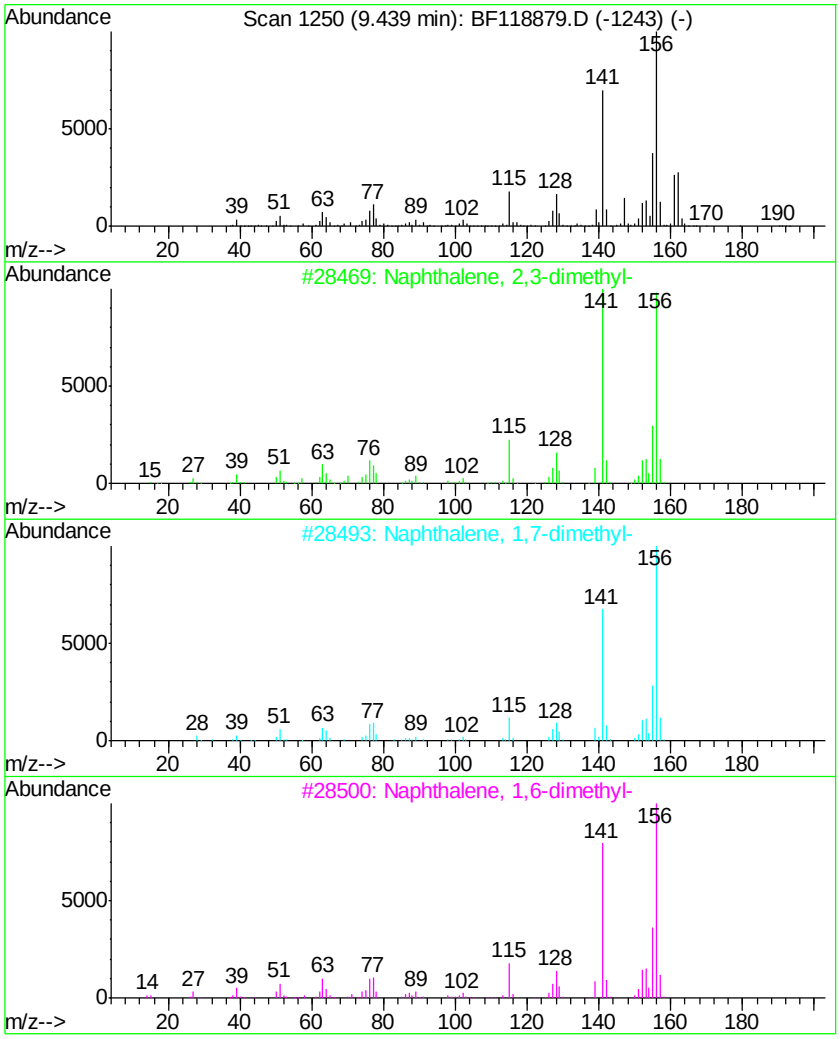
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

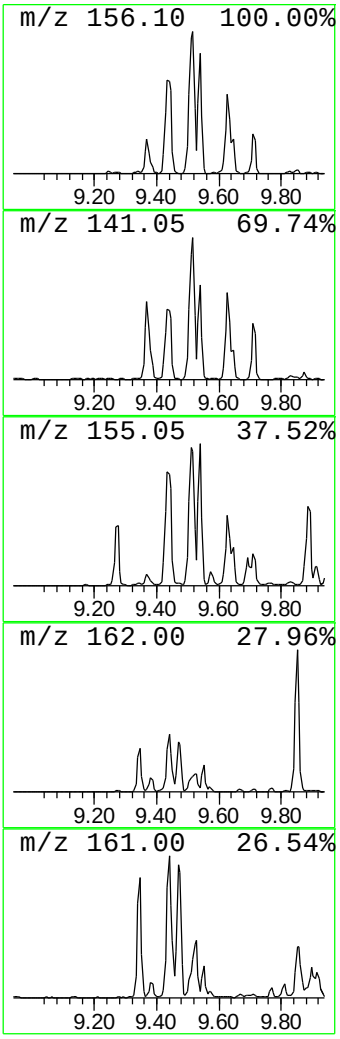
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.44	67.69 ng	5514280	Acenaphthene-d10	9.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
4	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
5	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118879.D
Acq On : 10 Feb 2020 20:17
Operator : CG/JU
Sample : L1468-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP10-EP2-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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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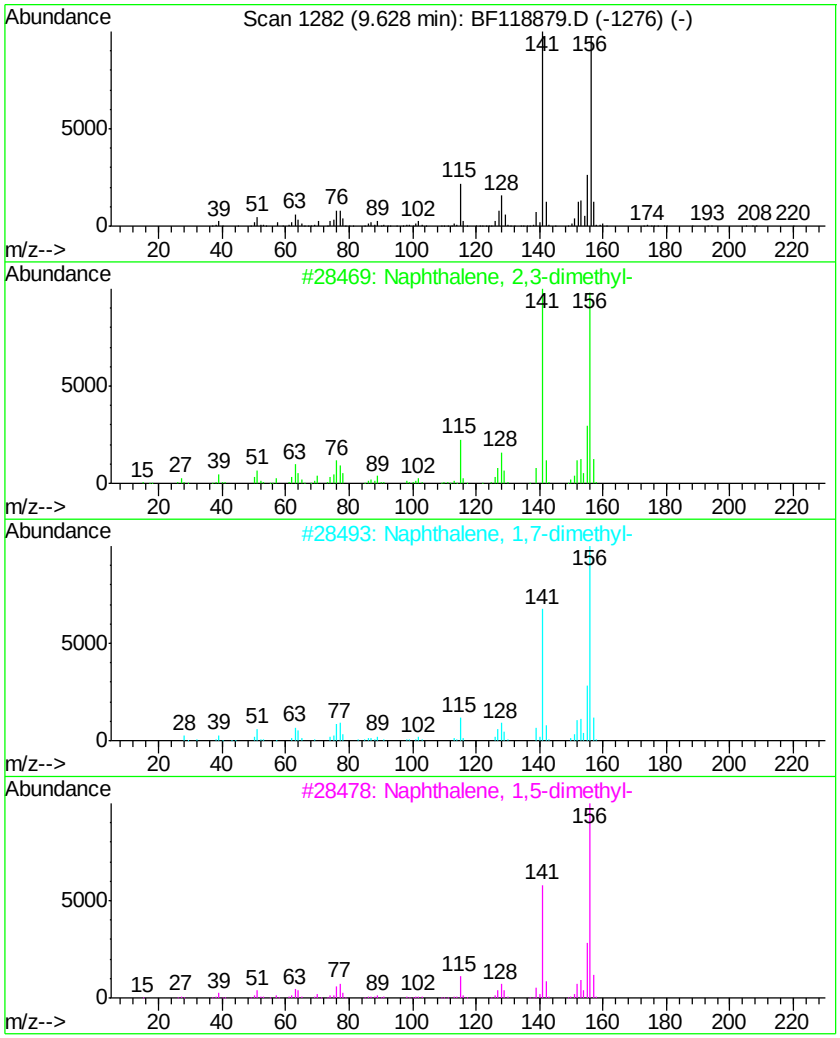
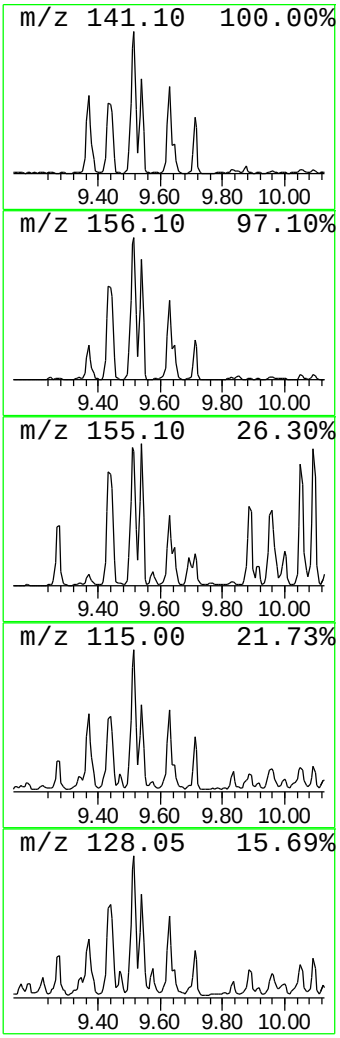
Peak Number 4 Naphthalene, 1,7-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.63	45.22 ng	3683410	Acenaphthene-d10	9.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
3	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118879.D
Acq On : 10 Feb 2020 20:17
Operator : CG/JU
Sample : L1468-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP10-EP2-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

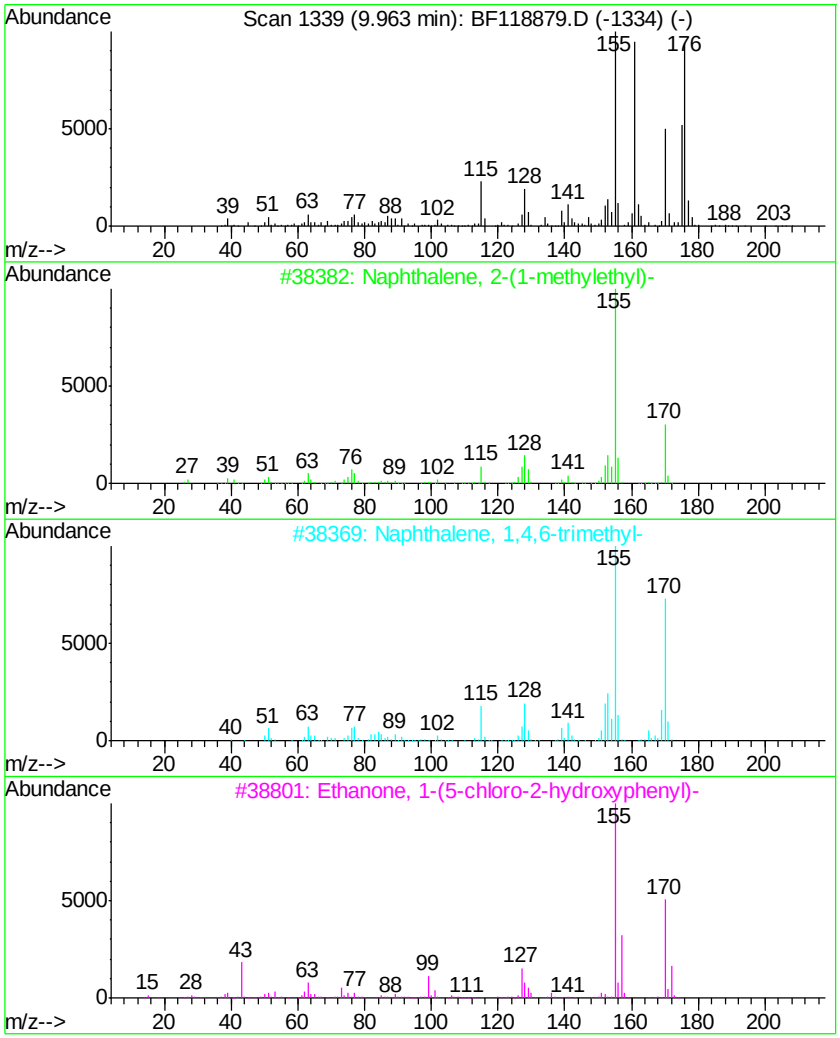
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

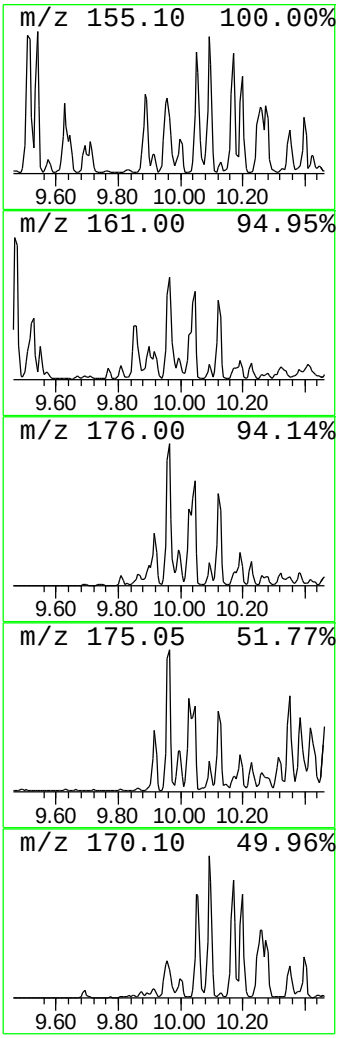
****

Peak Number 5 Naphthalene, 2-(1-methyleth... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.96	17.46 ng	1422530	Acenaphthene-d10	9.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-(1-methylethyl)-	170	C13H14	002027-17-0	55
2	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	46
3	Ethanone, 1-(5-chloro-2-hydroxyp...	170	C8H7ClO2	001450-74-4	43
4	Ethanone, 1-(1-Naphthalenyl)-	170	C12H10O	000941-98-0	43
5	2-Naphthyl methyl ketone	170	C12H10O	000093-08-3	38





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118879.D
Acq On : 10 Feb 2020 20:17
Operator : CG/JU
Sample : L1468-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP10-EP2-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

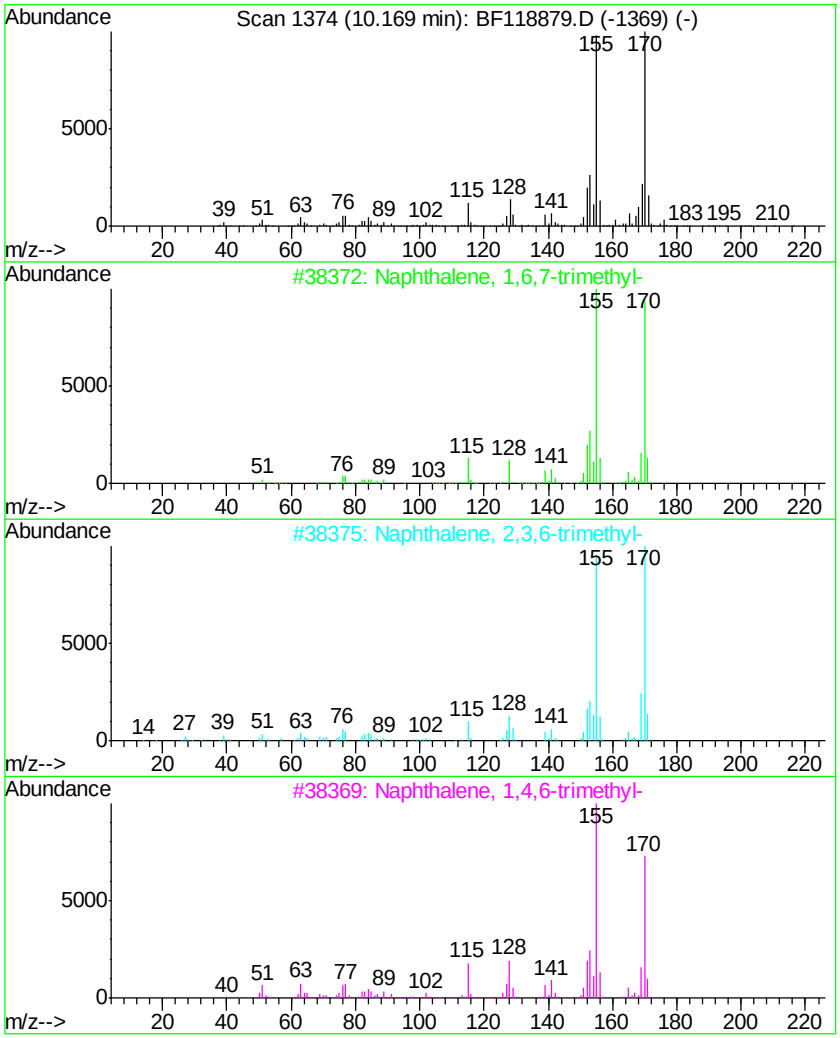
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

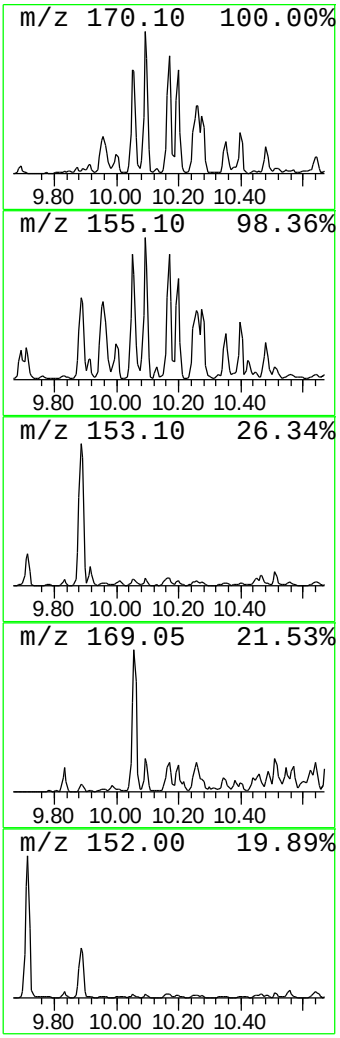
****

Peak Number 6 Naphthalene, 1,6,7-trimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.17	24.03 ng	1957400	Acenaphthene-d10	9.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	98
2	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	97
3	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	96
4	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	95
5	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	91





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Acq On : 10 Feb 2020 20:17
Operator : CG/JU
Sample : L1468-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP10-EP2-3

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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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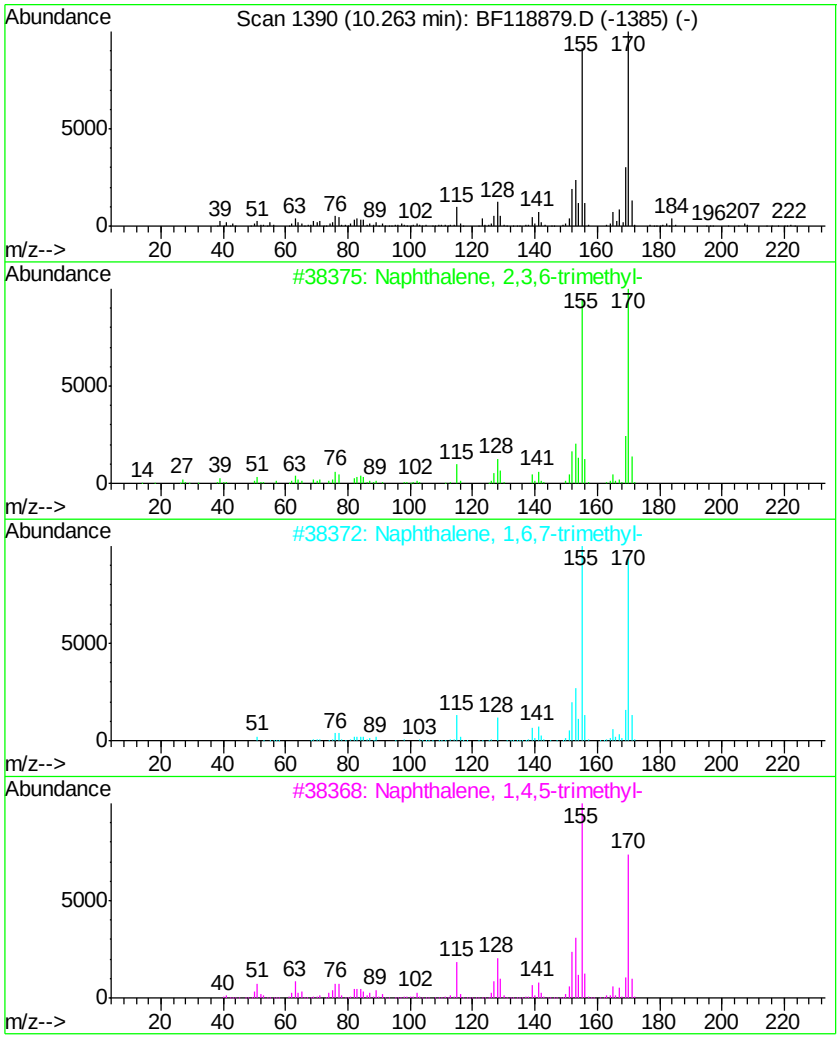
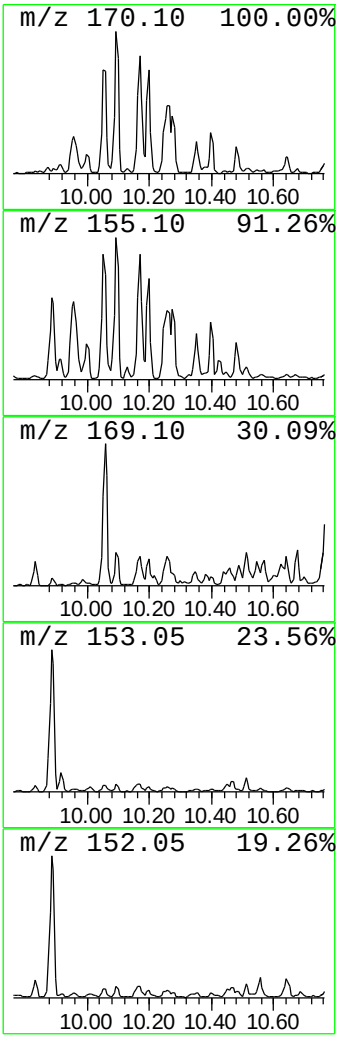
Peak Number 7 Naphthalene, 2,3,6-trimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.26	16.87 ng	1374430	Acenaphthene-d10	9.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	97
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	96
3	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	96
4	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	95
5	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	93





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Sample : L1468-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP10-EP2-3

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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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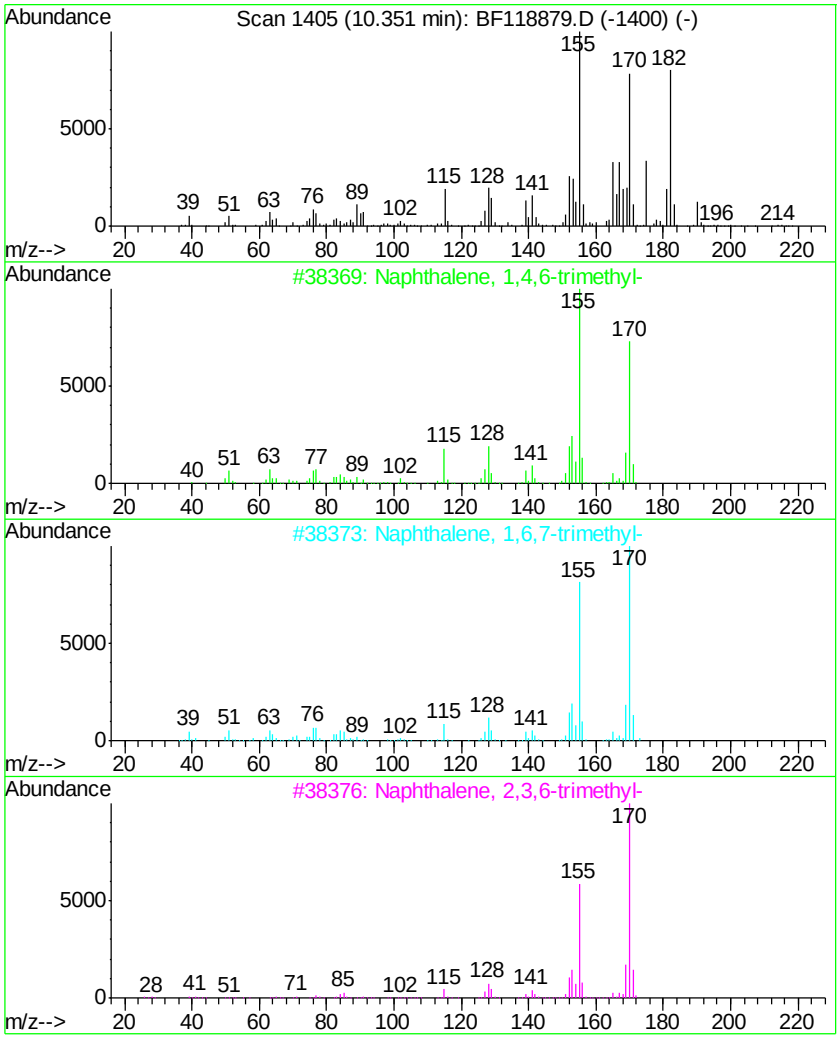
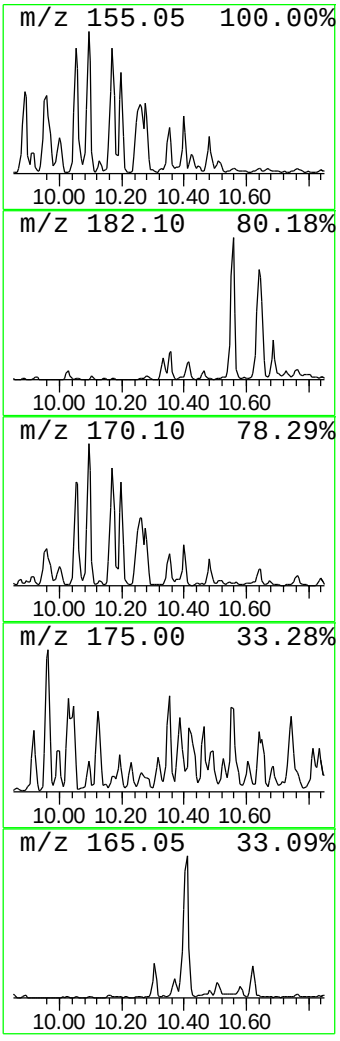
Peak Number 8 Naphthalene, 1,4,6-trimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.35	15.92 ng	1296960	Acenaphthene-d10	9.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,4,6-trimethyl-	170	C13H14	002131-42-2	95
2	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	92
3	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	91
4	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	91
5	1-(2,2-Dimethylcyclopropyl)-2-ph...	170	C13H14	1000294-91-1	70





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Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP10-EP2-3

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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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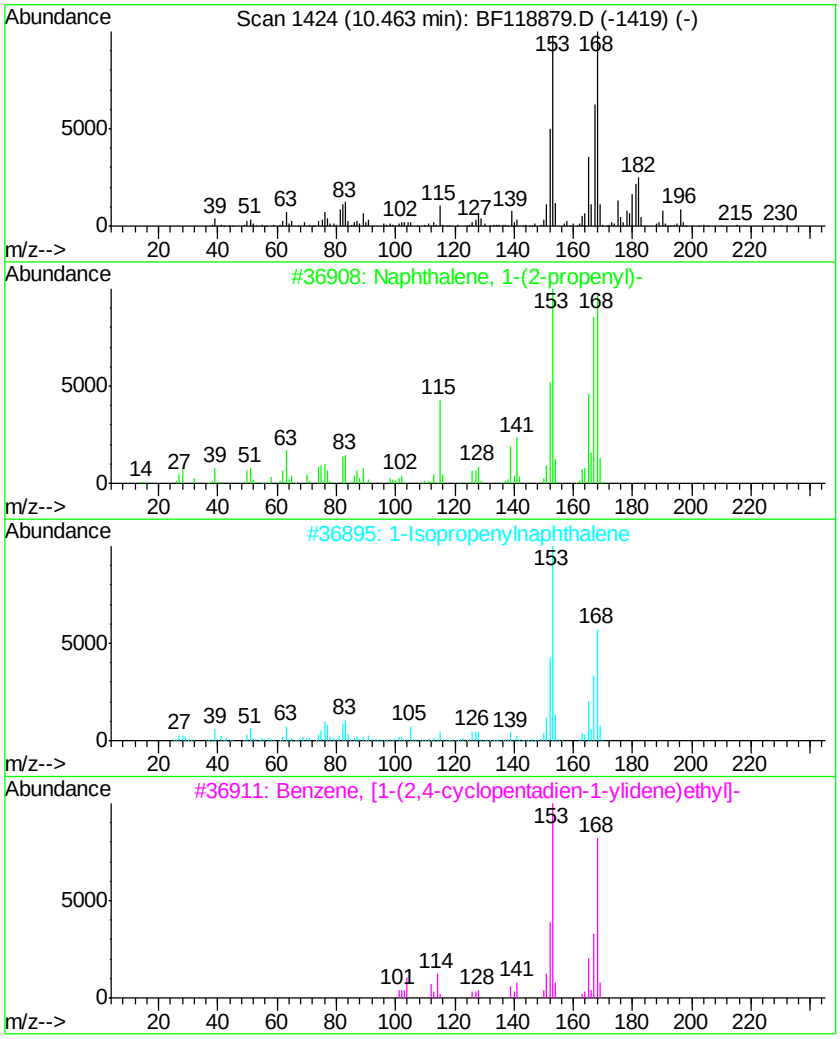
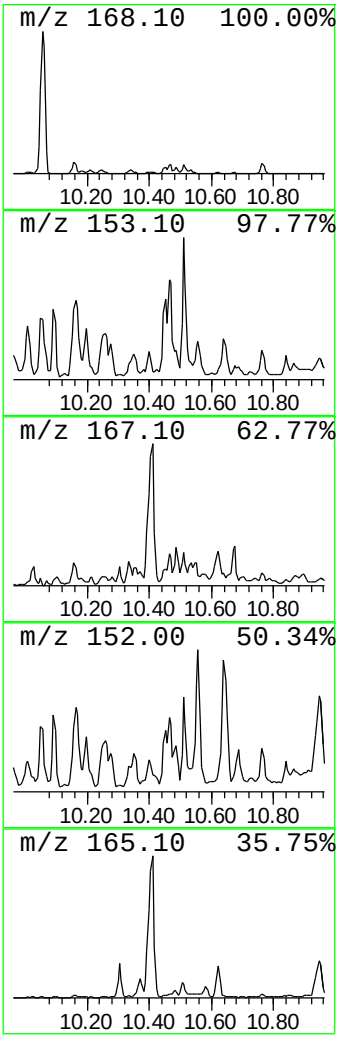
Peak Number 9 Naphthalene, 1-(2-propenyl)- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.46	14.05 ng	1144880	Acenaphthene-d10	9.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-(2-propenyl)-	168	C13H12	002489-86-3	86
2	1-Isopropenylnaphthalene	168	C13H12	001855-47-6	64
3	Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	52
4	1,1'-Biphenyl, 3-methyl-	168	C13H12	000643-93-6	49
5	1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	46





Library Search Compound Report

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Sample : L1468-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP10-EP2-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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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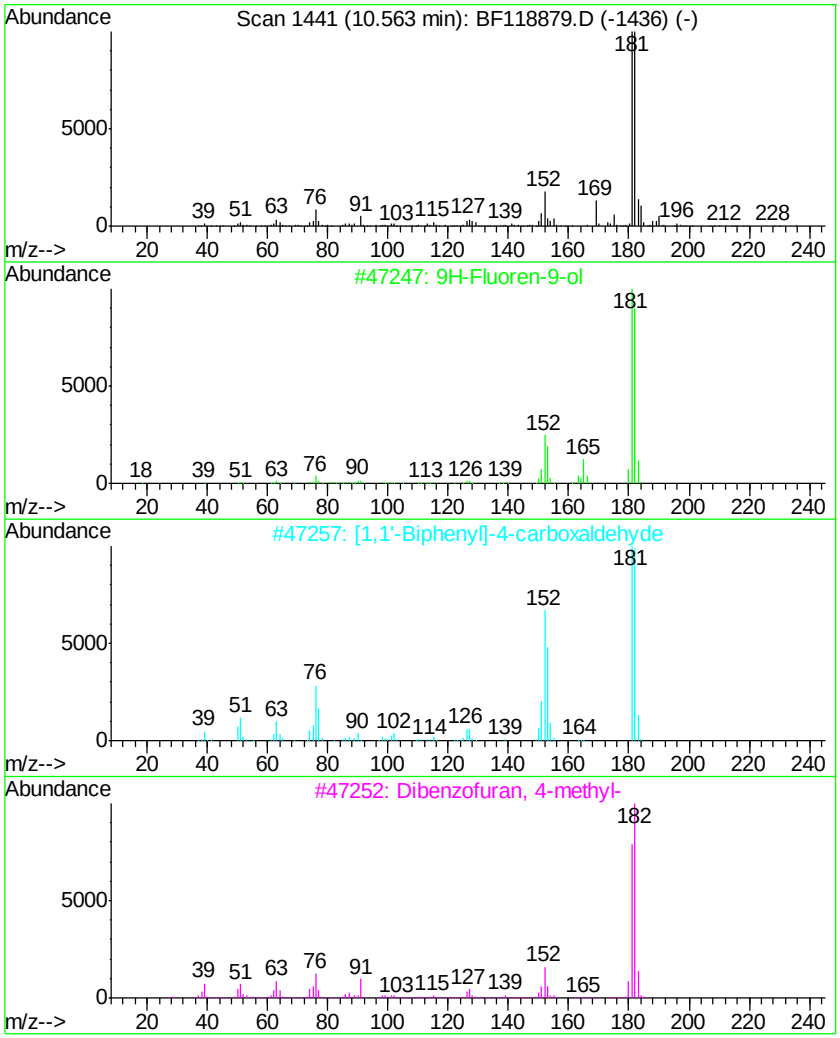
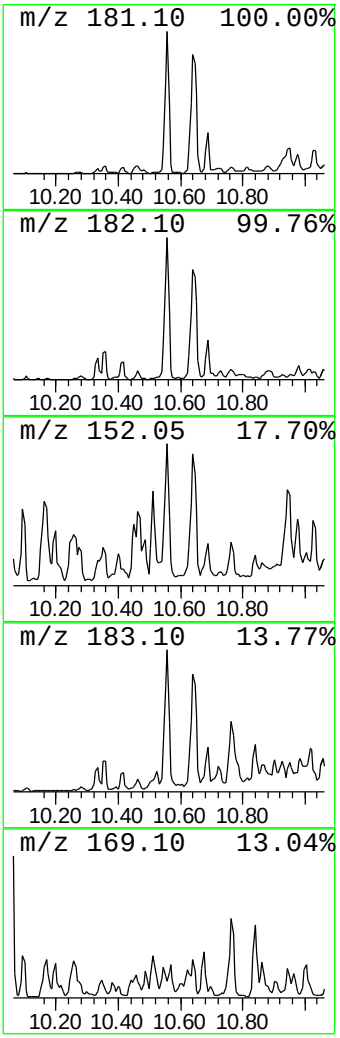
Peak Number 10 9H-Fluoren-9-ol Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.56	19.53 ng	1591370	Acenaphthene-d10	9.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	80
2	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78
3	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	76
4	3-(2-Naphthyl)acrylaldehyde	182	C13H10O	020884-05-3	72
5	9H-Xanthene	182	C13H10O	000092-83-1	55





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Operator : CG/JU
Sample : L1468-04
Misc :
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Instrument : BNA_F
ClientSampleId : TP10-EP2-3

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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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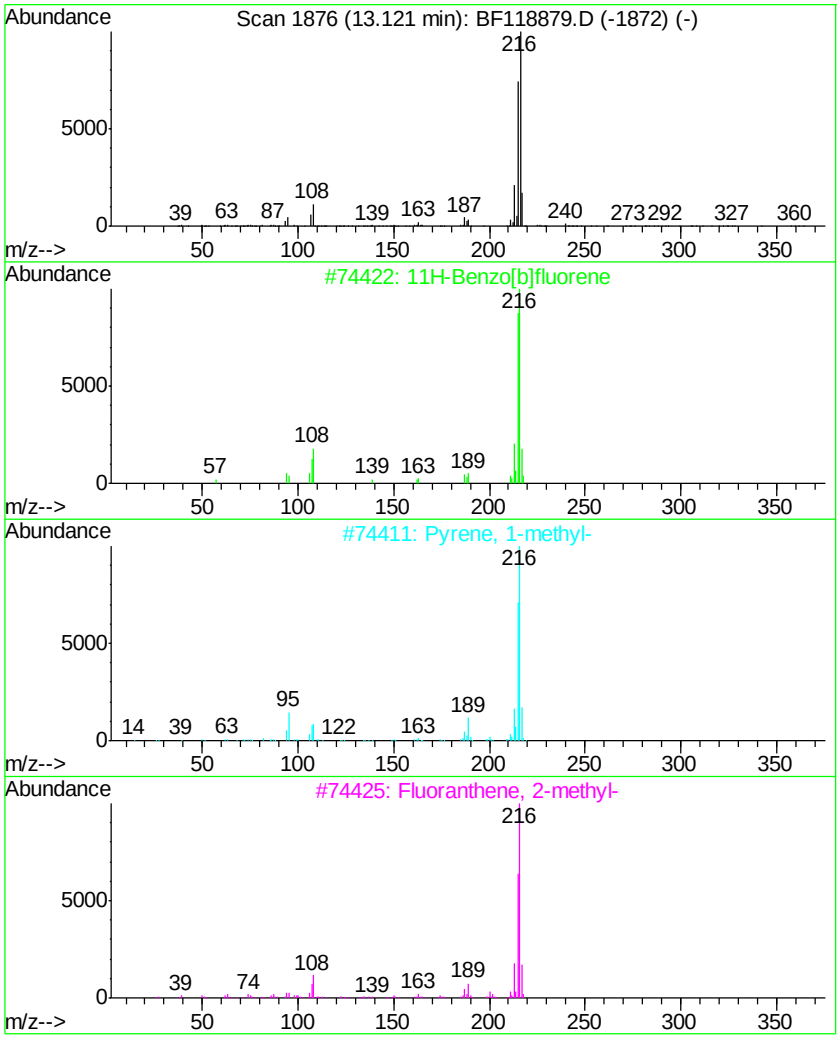
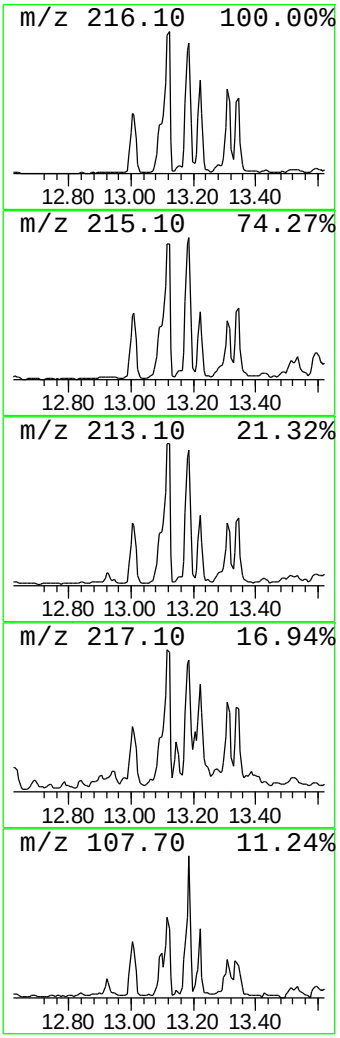
Peak Number 11 11H-Benzo[b]fluorene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.12	7.86 ng	5394070	Chrysene-d12	13.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	72





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Acq On : 10 Feb 2020 20:17
Operator : CG/JU
Sample : L1468-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP10-EP2-3

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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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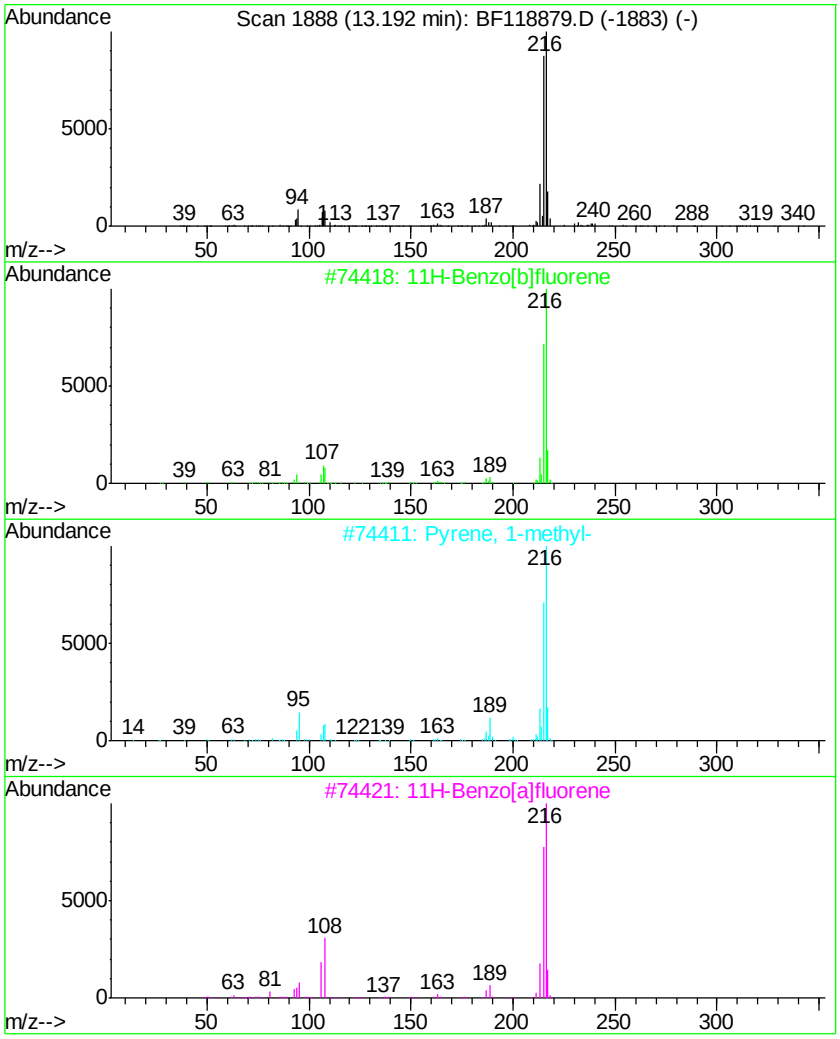
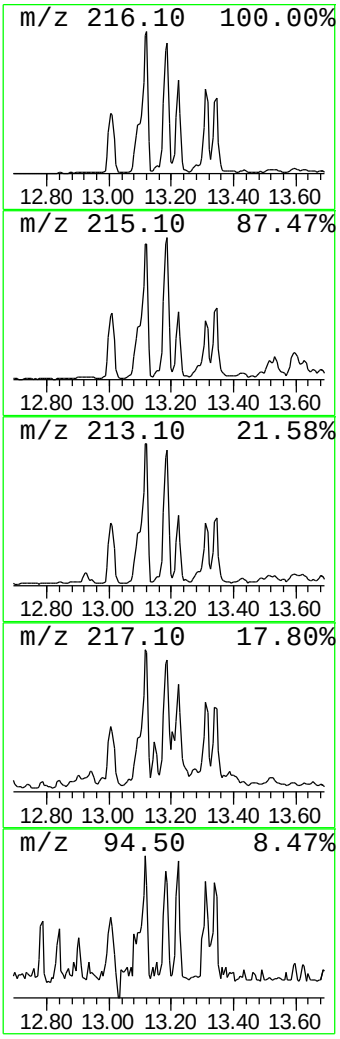
Peak Number 12 Pyrene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.19	6.95 ng	4766370	Chrysene-d12	13.99

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	97
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	64
5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	60





Library Search Compound Report

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Operator : CG/JU
Sample : L1468-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP10-EP2-3

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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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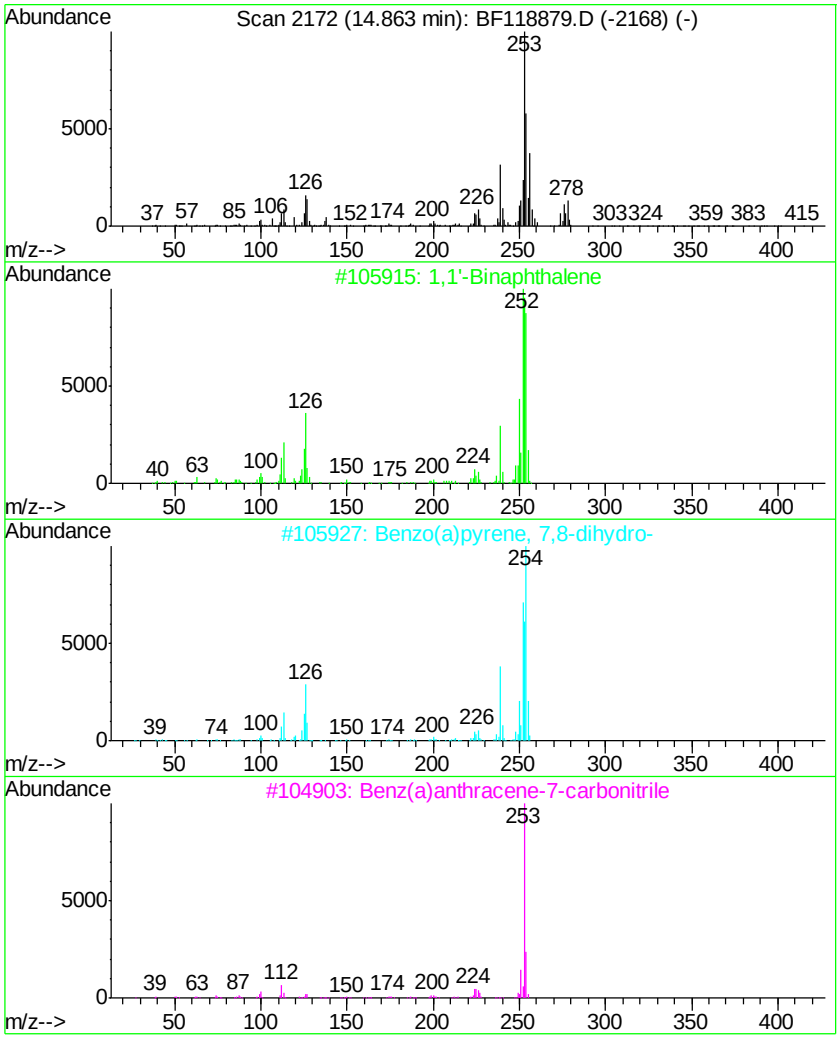
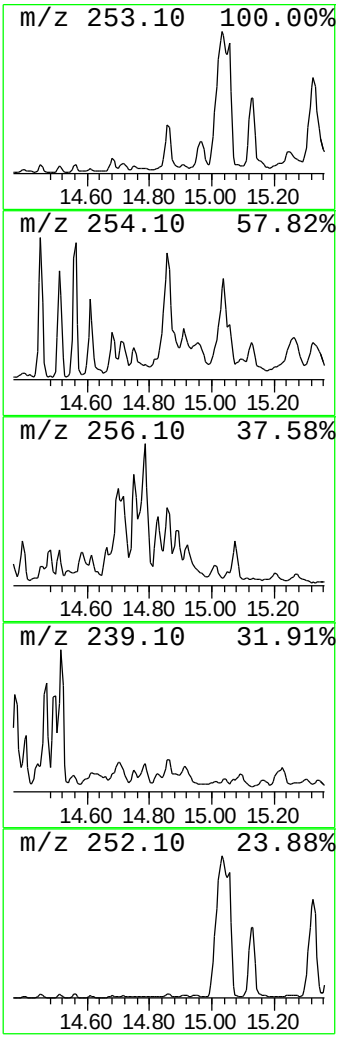
Peak Number 13 1,1'-Binaphthalene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.86	14.53 ng	1419990	Perylene-d12	15.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1'-Binaphthalene	254	C20H14	000604-53-5	78
2	Benzo(a)pyrene, 7,8-dihydro-	254	C20H14	017573-23-8	47
3	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	46
4	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	46
5	4,6'-Biazulenyl	254	C20H14	094154-49-1	43





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Sample : L1468-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP10-EP2-3

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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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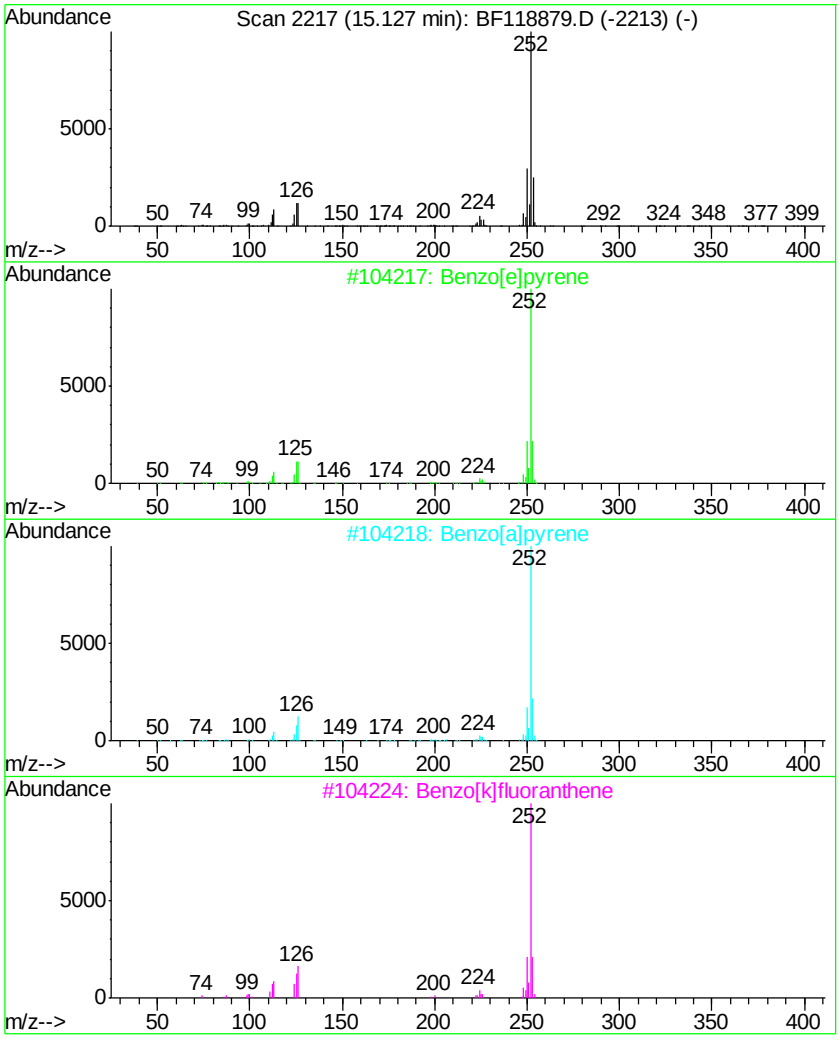
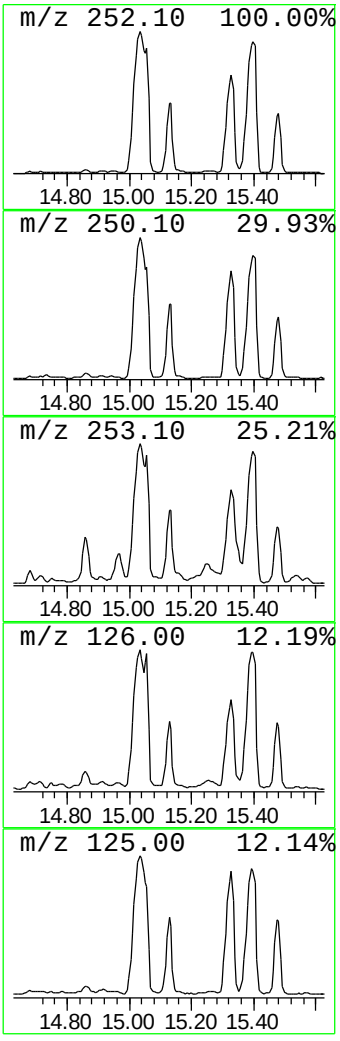
Peak Number 14 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.13	41.98 ng	4103900	Perylene-d12	15.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[a]pyrene	252	C20H12	000050-32-8	96
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	96
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
5	Perylene	252	C20H12	000198-55-0	90





Library Search Compound Report

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Operator : CG/JU
Sample : L1468-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP10-EP2-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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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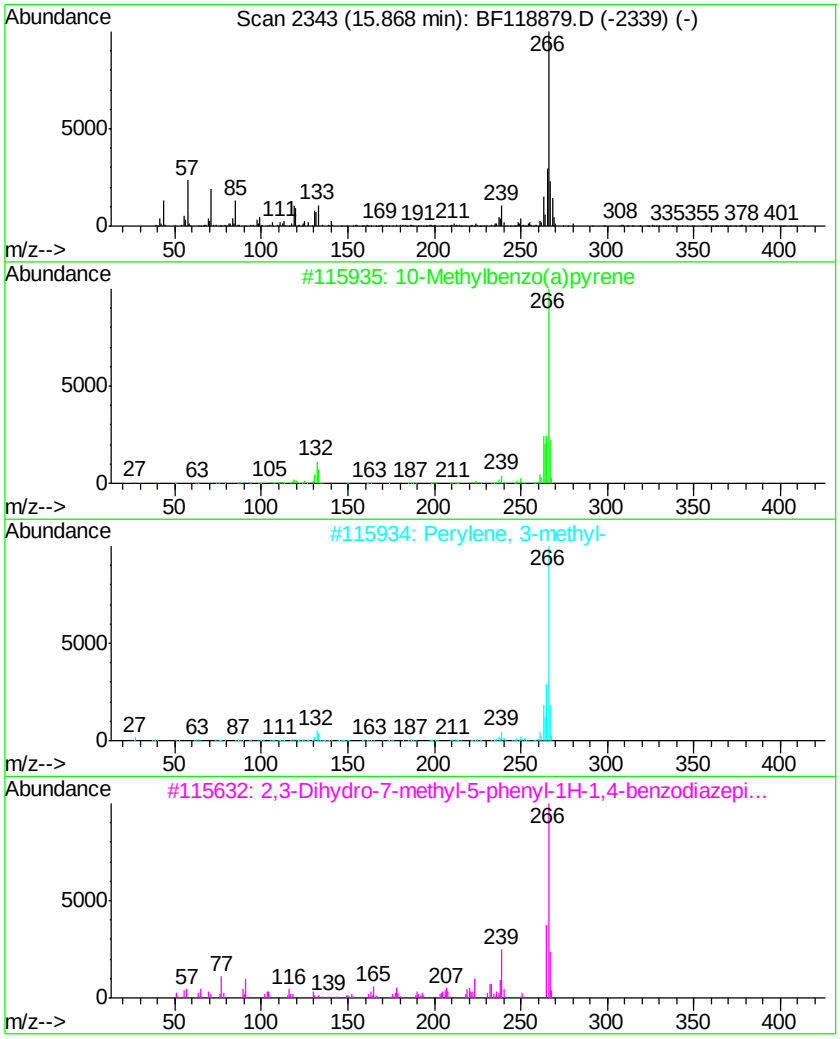
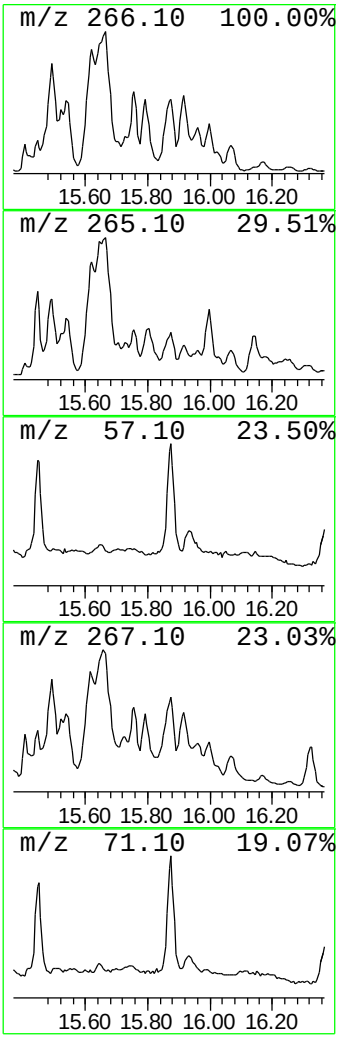
Peak Number 16 10-Methylbenzo(a)pyrene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.87	11.22 ng	1096730	Perylene-d12	15.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	10-Methylbenzo(a)pyrene	266	C21H14	063104-32-5	76
2	Perylene, 3-methyl-	266	C21H14	024471-47-4	68
3	2,3-Dihydro-7-methyl-5-phenyl-1H...	266	C16H14N2S	002888-60-0	53
4	Benzo[1,2-b:4,3-b']dithiophene, ...	266	C16H10S2	016587-58-9	53
5	Thiazole, 4-(4-methylphenyl)-2-p...	266	C16H14N2S	093020-56-5	52





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ClientSampleId : TP10-EP2-3

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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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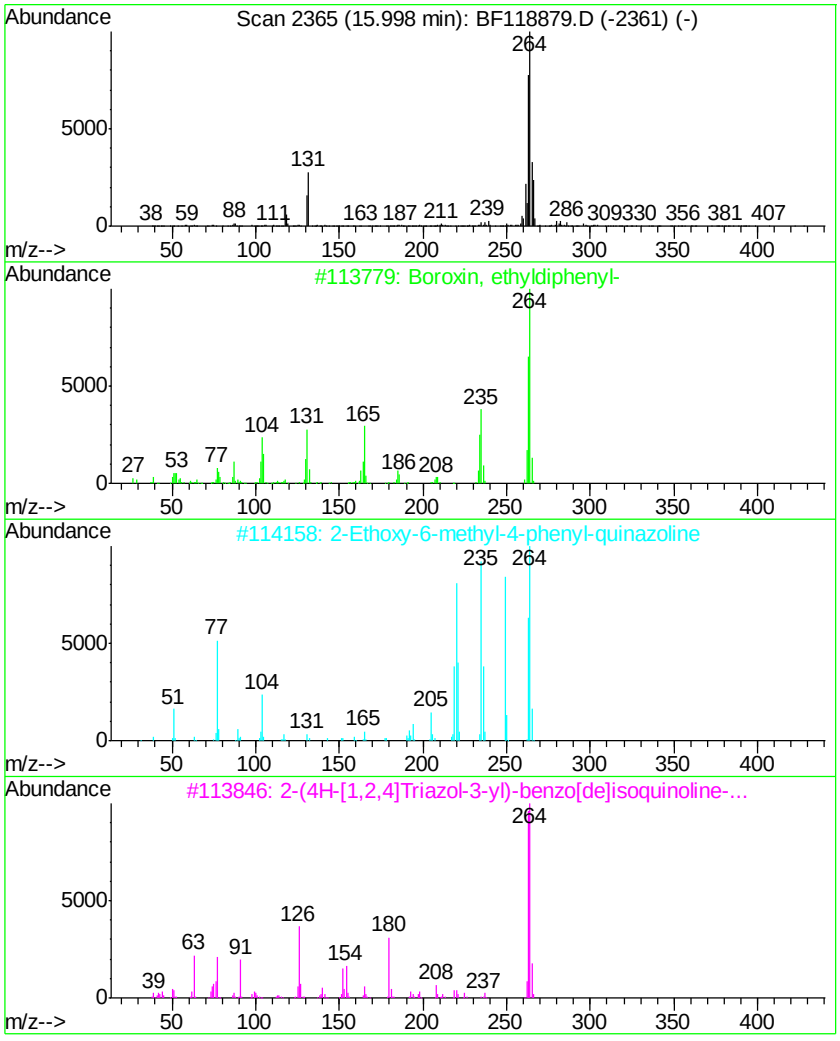
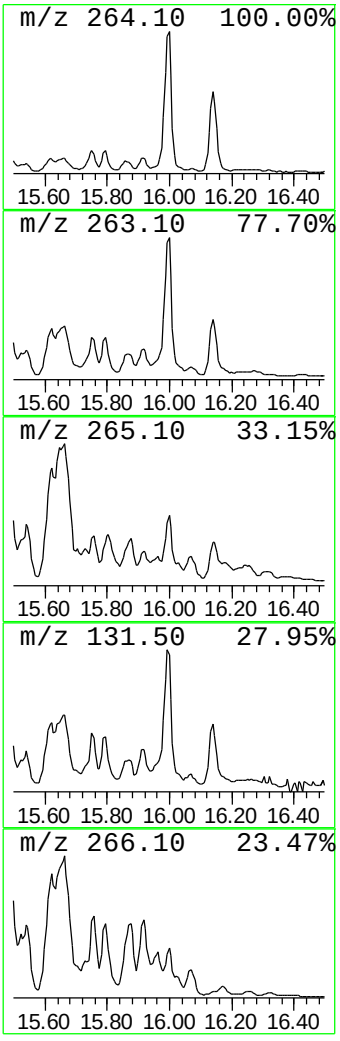
Peak Number 17 Boroxin, ethyldiphenyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.00	16.87 ng	1648970	Perylene-d12	15.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Boroxin, ethyldiphenyl-	264	C14H15B3O3	1000151-82-0	59
2	2-Ethoxy-6-methyl-4-phenyl-quina...	264	C17H16N2O	1000318-42-5	47
3	2-(4H-[1,2,4]Triazol-3-yl)-benzo...	264	C14H8N4O2	1000318-09-6	40
4	1H-Pyrazole-4-carbonitrile, 3-(4...	263	C12H10ClN3S	068364-67-0	35
5	2,3,4,5,6-Pentachlorobenzyl 3-et...	518	C18H15Cl5O5S	1000332-55-0	35





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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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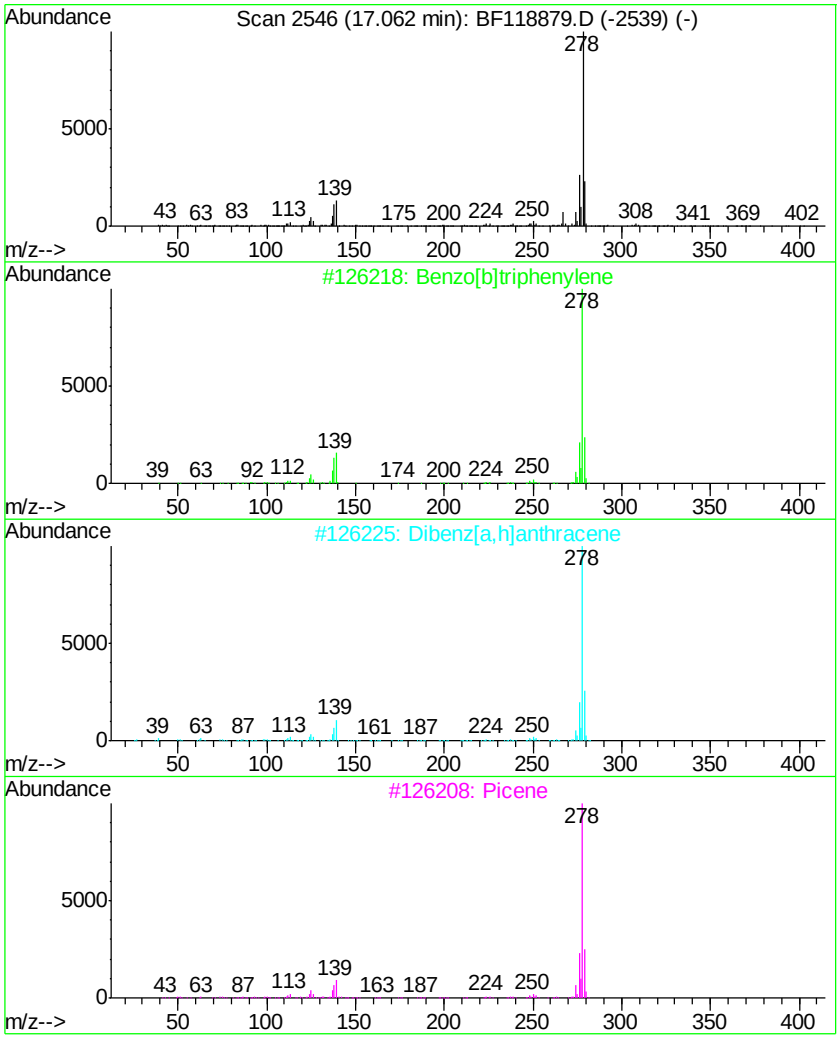
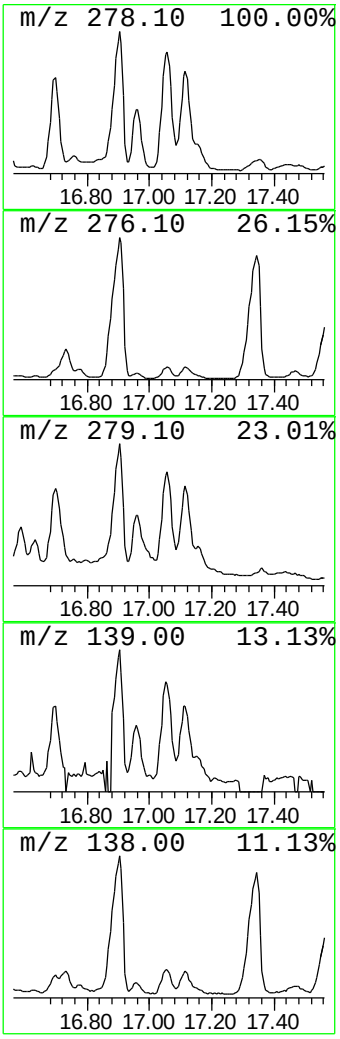
Peak Number 18 Benzo[b]triphenylene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.06	17.03 ng	1665120	Perylene-d12	15.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	99
2	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	97
3	Picene	278	C22H14	000213-46-7	97
4	Pentacene	278	C22H14	000135-48-8	97
5	Benzo[b]chrysene	278	C22H14	000214-17-5	96





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118879.D
Acq On : 10 Feb 2020 20:17
Operator : CG/JU
Sample : L1468-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP10-EP2-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

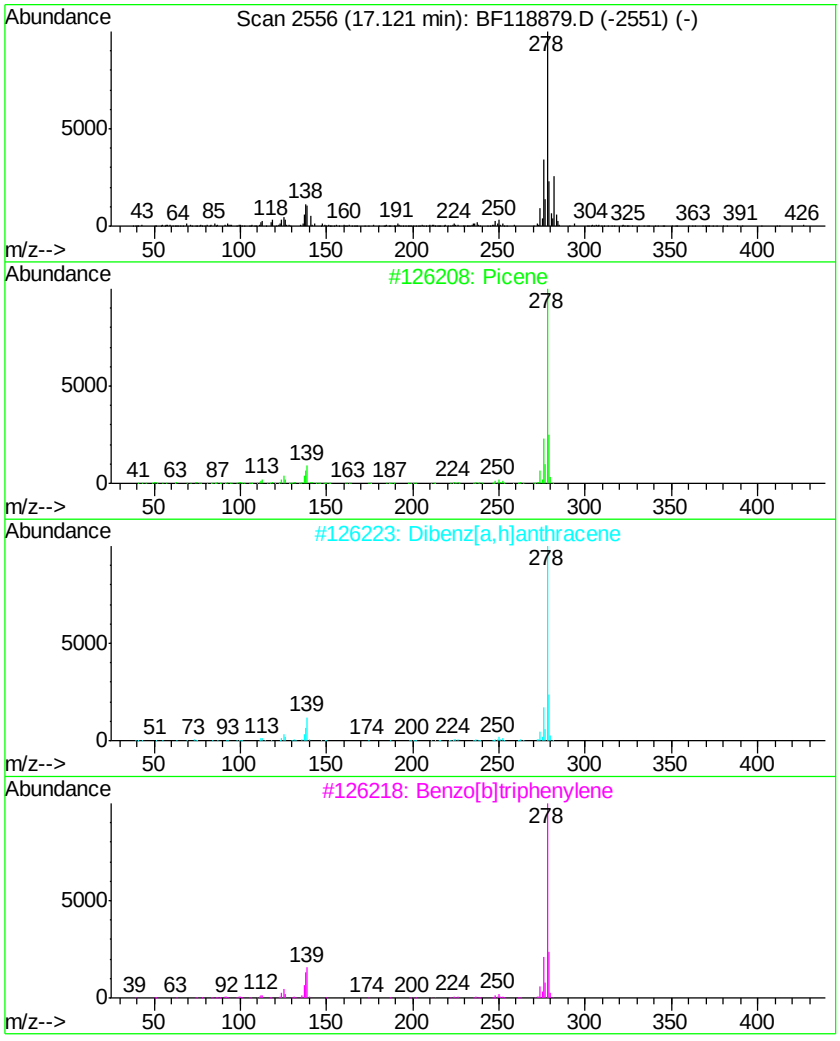
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

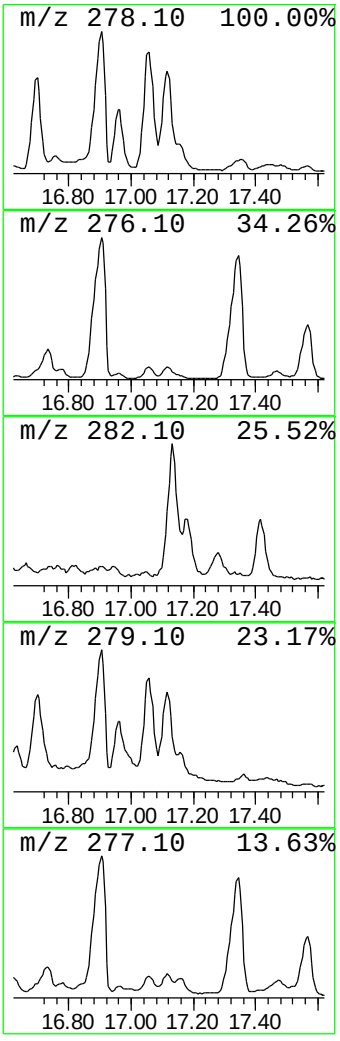
****

Peak Number 19 Picene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.12	30.06 ng	2938260	Perylene-d12	15.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Picene	278	C22H14	000213-46-7	98
2	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	98
3	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
4	Benzo[b]chrysene	278	C22H14	000214-17-5	96
5	Pentaphene	278	C22H14	000222-93-5	93





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021020\
Data File : BF118879.D
Acq On : 10 Feb 2020 20:17
Operator : CG/JU
Sample : L1468-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP10-EP2-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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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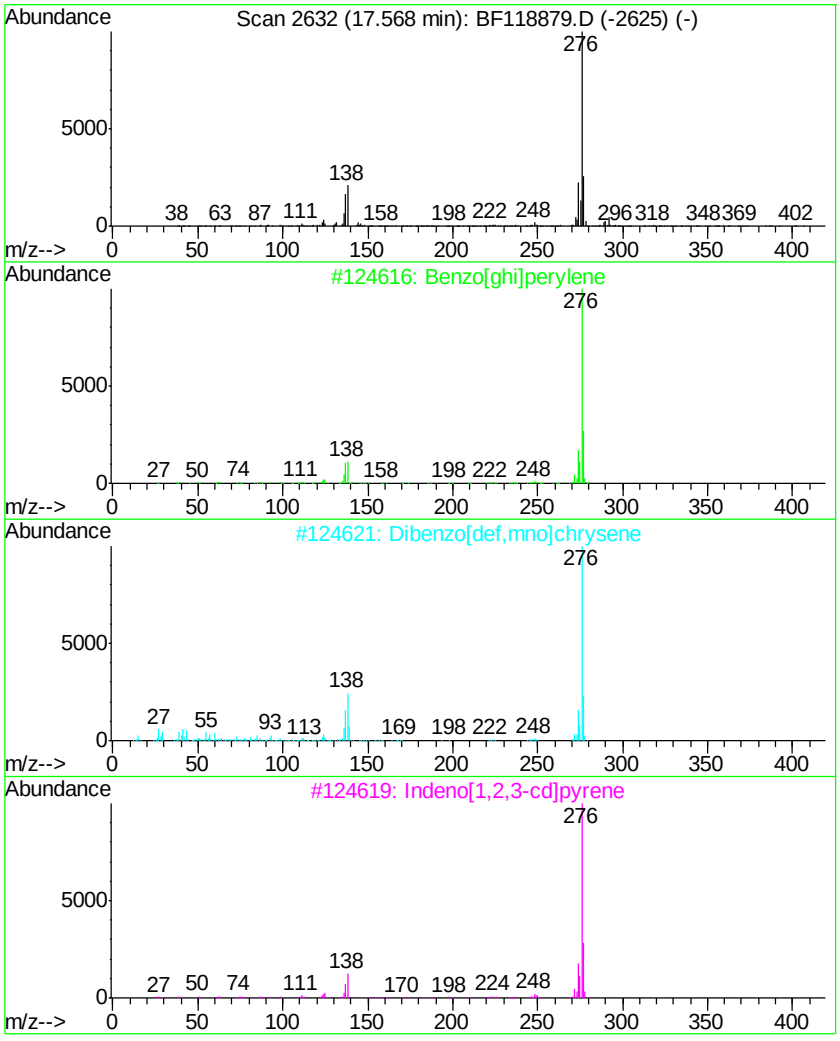
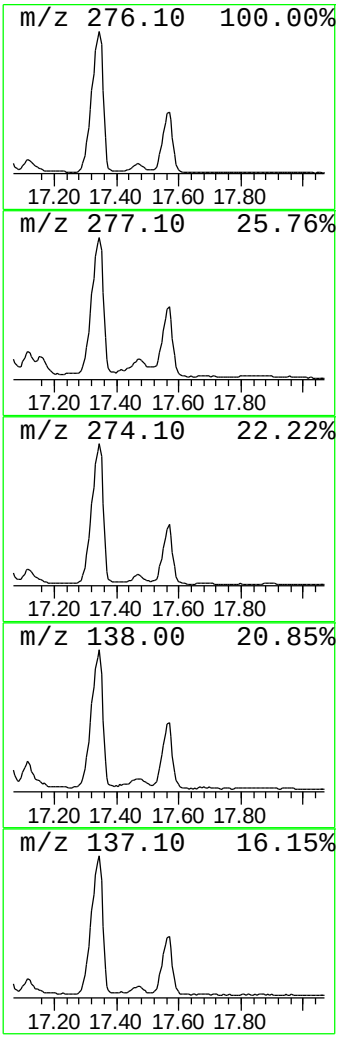
Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.57	25.22 ng	2464940	Perylene-d12	15.44

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[ghi]perylene	276	C22H12	000191-24-2	97
2	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	93
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	93
4	Phenol, 2-(4-chlorophenyliminome...	276	C13H9ClN2O3	1000262-90-3	53
5	Naphthalen-1-yl-(3-nitro-benzyli...	276	C17H12N2O2	200421-53-0	47





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF021020\
Data File : BF118879.D
Acq On : 10 Feb 2020 20:17
Operator : CG/JU
Sample : L1468-04
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : TP10-EP2-3

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF020320.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
Naphthalene, 2-et...	9.37	29.2	ng	2379210	3	9.85	1629280	20.0
Naphthalene, 2,3-...	9.44	67.7	ng	5514280	3	9.85	1629280	20.0
Naphthalene, 1,7-...	9.63	45.2	ng	3683410	3	9.85	1629280	20.0
Naphthalene, 2-(1...	9.96	17.5	ng	1422530	3	9.85	1629280	20.0
Naphthalene, 1,6,...	10.17	24.0	ng	1957400	3	9.85	1629280	20.0
Naphthalene, 2,3,...	10.26	16.9	ng	1374430	3	9.85	1629280	20.0
Naphthalene, 1,4,...	10.35	15.9	ng	1296960	3	9.85	1629280	20.0
Naphthalene, 1-(2...	10.46	14.1	ng	1144880	3	9.85	1629280	20.0
9H-Fluoren-9-ol	10.56	19.5	ng	1591370	3	9.85	1629280	20.0
11H-Benzo[b]fluorene	13.12	7.9	ng	5394070	5	13.99	13717600	20.0
Pyrene, 1-methyl-	13.19	7.0	ng	4766370	5	13.99	13717600	20.0
1,1'-Binaphthalene	14.86	14.5	ng	1419990	6	15.44	1954960	20.0
Benzo[e]pyrene	15.13	42.0	ng	4103900	6	15.44	1954960	20.0
10-Methylbenzo(a)...	15.87	11.2	ng	1096730	6	15.44	1954960	20.0
Boroxin, ethyldip...	16.00	16.9	ng	1648970	6	15.44	1954960	20.0
Benzo[b]triphenylene	17.06	17.0	ng	1665120	6	15.44	1954960	20.0
Picene	17.12	30.1	ng	2938260	6	15.44	1954960	20.0
Dibenzo[def,mno]c...	17.57	25.2	ng	2464940	6	15.44	1954960	20.0