LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103945.D
Acq On : 27 Mar 2018 00:17
Operator : JU/SJ
Sample : J1998-06
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-101(4-5)

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:\HPCHEM1\BNA_F\METHODS\8270-BF031518.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	2.305	32	37	43	rVB	94192	124547	4.28%	0.232%
2	5.222	525	533	543	rVB	100749	135163	4.64%	0.252%
3	5.598	590	597	601	rBV	2637680	2844214	97.71%	5.297%
4	6.598	760	767	770	rBV	2728892	2805575	96.39%	5.225%
5	6.745	787	792	795	rBV	3165886	2910767	100.00%	5.421%
6	6.975	827	831	834	rBV	1122936	876652	30.12%	1.633%
7	7.134	853	858	861	rBV	2312631	2160497	74.22%	4.024%
8	7.539	922	927	930	rBV	1914484	1790710	61.52%	3.335%
9	8.257	1045	1049	1051	rBV	1431624	1153151	39.62%	2.148%
10	8.275	1051	1052	1055	rVV	276709	219161	7.53%	0.408%
11	8.969	1167	1170	1173	rBV	188473	152350	5.23%	0.284%
12	9.069	1182	1187	1190	rBV	149733	144096	4.95%	0.268%
13	9.328	1227	1231	1235	rBV	3040023	2721631	93.50%	5.069%
14	9.398	1240	1243	1246	rVV	108857	101345	3.48%	0.189%
15	9.598	1272	1277	1281	rBV2	89142	134900	4.63%	0.251%
16	9.669	1285	1289	1292	rBV	142276	141519	4.86%	0.264%
17	9.716	1295	1297	1300	rBV	359219	293058	10.07%	0.546%
18	9.786	1305	1309	1311	rBV2	85610	96162	3.30%	0.179%
19	9.875	1321	1324	1329	rBV	355191	309713	10.64%	0.577%
20	9.928	1329	1333	1337	rVB	227052	194030	6.67%	0.361%
21	10.016	1345	1348	1351	rVV2	1431623	1172844	40.29%	2.184%
22	10.045	1351	1353	1356	rVB	241309	193087	6.63%	0.360%
23	10.157	1369	1372	1376	rBV4	51227	91481	3.14%	0.170%
24	10.216	1379	1382	1385	rVV2	144346	154142	5.30%	0.287%
25	10.251	1385	1388	1392	rVB2	140835	123504	4.24%	0.230%
26	10.328	1397	1401	1404	rBV2	132101	178413	6.13%	0.332%
27	10.428	1412	1418	1422	rVB3	223215	270171	9.28%	0.503%
28	10.563	1438	1441	1447	rVB2	263363	287511	9.88%	0.535%
29	10.651	1451	1456	1458	rVV3	133194	171051	5.88%	0.319%
30	10.716	1462	1467	1471	rVV5	53717	105413	3.62%	0.196%
31	10.810	1479	1483	1486	rBV	1899290	1794912	61.66%	3.343%
32	10.904	1496	1499	1508	rVB3	211987	392655	13.49%	0.731%
33	11.116	1530	1535	1537	rBV2	113101	167623	5.76%	0.312%
34	11.239	1551	1556	1558	rBV3	63746	109339	3.76%	0.204%

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Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-101(4-5)

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:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.351	1572	1575	1578	rVV	176993	172329	5.92%	0.321%
36	11.380	1578	1580	1582	rVV2	109441	106354	3.65%	0.198%
37	11.404	1582	1584	1588	rVB	215586	176561	6.07%	0.329%
38	11.510	1598	1602	1604	rBV	1249433	1093959	37.58%	2.038%
39	11.533	1604	1606	1610	rVV	1680731	1543393	53.02%	2.875%
40	11.586	1612	1615	1617	rVV	583579	468403	16.09%	0.872%
41	11.616	1617	1620	1623	rVV2	108714	147151	5.06%	0.274%
42	11.663	1626	1628	1634	rVV4	57327	99888	3.43%	0.186%
43	11.739	1638	1641	1646	rVV	170077	225320	7.74%	0.420%
44	11.780	1646	1648	1650	rVV2	130551	105286	3.62%	0.196%
45	11.839	1655	1658	1662	rVB	201054	187947	6.46%	0.350%
46	11.927	1669	1673	1677	rVB	122742	152486	5.24%	0.284%
47	12.010	1684	1687	1690	rVV	412614	435823	14.97%	0.812%
48	12.039	1690	1692	1696	rVB	574175	464118	15.94%	0.864%
49	12.086	1697	1700	1703	rVV	212595	188548	6.48%	0.351%
50	12.127	1703	1707	1709	rVV2	615830	754315	25.91%	1.405%
51	12.145	1709	1710	1715	rVB	350832	274243	9.42%	0.511%
52	12.304	1734	1737	1740	rVV	278487	305677	10.50%	0.569%
53	12.339	1740	1743	1748	rVB2	202658	239276	8.22%	0.446%
54	12.457	1761	1763	1766	rVV	107141	96980	3.33%	0.181%
55	12.486	1766	1768	1770	rVV	119054	100314	3.45%	0.187%
56	12.516	1770	1773	1775	rVB2	128629	129381	4.44%	0.241%
57	12.563	1775	1781	1785	rBV	438153	619765	21.29%	1.154%
58	12.604	1785	1788	1790	rVV2	184067	213605	7.34%	0.398%
59	12.651	1793	1796	1800	rBV3	170407	259658	8.92%	0.484%
60	12.733	1806	1810	1813	rBV	2199775	1919893	65.96%	3.576%
61	12.769	1813	1816	1818	rVV	137106	113927	3.91%	0.212%
62	12.827	1822	1826	1828	rBV	226687	216644	7.44%	0.404%
63	12.886	1833	1836	1837	rVV	191836	189893	6.52%	0.354%
64	12.904	1837	1839	1842	rVB2	132010	110613	3.80%	0.206%
65	12.963	1842	1849	1854	rBV	2013163	2526606	86.80%	4.706%
66	13.010	1854	1857	1861	rVB2	195363	206404	7.09%	0.384%
67	13.098	1868	1872	1874	rVV	2293665	2136753	73.41%	3.980%
68	13.116	1874	1875	1881	rVB	169962	123609	4.25%	0.230%
69	13.174	1881	1885	1890	rBV4	248880	420726	14.45%	0.784%
70	13.286	1902	1904	1907	rVB	502336	440187	15.12%	0.820%
71	13.357	1913	1916	1918	rVB	312116	275156	9.45%	0.512%

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Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-101(4-5)

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
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Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.392	1918	1922	1925	rBV2	392164	376445	12.93%	0.701%
73	13.486	1935	1938	1941	rVV	331268	296016	10.17%	0.551%
74	13.516	1941	1943	1946	rVB	293714	258732	8.89%	0.482%
75	13.798	1988	1991	1995	rVB	176920	213262	7.33%	0.397%
76	13.910	2005	2010	2013	rBV2	293495	386633	13.28%	0.720%
77	13.939	2013	2015	2017	rVB	229198	170378	5.85%	0.317%
78	13.974	2017	2021	2025	rBV3	246877	403401	13.86%	0.751%
79	14.157	2048	2052	2056	rVV3	1378205	2175212	74.73%	4.051%
80	14.192	2056	2058	2065	rVB	1145279	1021669	35.10%	1.903%
81	14.251	2065	2068	2070	rBV	118990	103890	3.57%	0.193%
82	14.274	2070	2072	2074	rVV	128619	122385	4.20%	0.228%
83	14.310	2076	2078	2084	rVV3	157366	264238	9.08%	0.492%
84	14.392	2088	2092	2095	rBV3	109651	148710	5.11%	0.277%
85	14.421	2095	2097	2100	rVB2	96531	93724	3.22%	0.175%
86	14.557	2115	2120	2123	rVV	335436	382421	13.14%	0.712%
87	14.592	2123	2126	2128	rVB	181000	152207	5.23%	0.283%
88	14.686	2139	2142	2144	rVV	200673	186375	6.40%	0.347%
89	14.710	2144	2146	2149	rVB	192422	160666	5.52%	0.299%
90	14.757	2151	2154	2157	rVB3	111088	117550	4.04%	0.219%
91	15.251	2233	2238	2241	rBV	607242	984067	33.81%	1.833%
92	15.368	2254	2258	2262	rBV	167780	198700	6.83%	0.370%
93	15.574	2289	2293	2300	rVB	446094	660024	22.68%	1.229%
94	15.645	2300	2305	2310	rBV	729918	910464	31.28%	1.696%
95	15.710	2311	2316	2320	rVV2	539467	799755	27.48%	1.490%
96	15.745	2320	2322	2328	rVB2	188826	249411	8.57%	0.465%
97	16.227	2400	2404	2407	rBV2	54827	92225	3.17%	0.172%
98	16.315	2416	2419	2425	rVB	80738	108992	3.74%	0.203%
99	17.292	2580	2585	2592	rVB2	237702	475523	16.34%	0.886%
100	17.780	2662	2668	2678	rVB	188250	415115	14.26%	0.773%

Sum of corrected areas: 53690768

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
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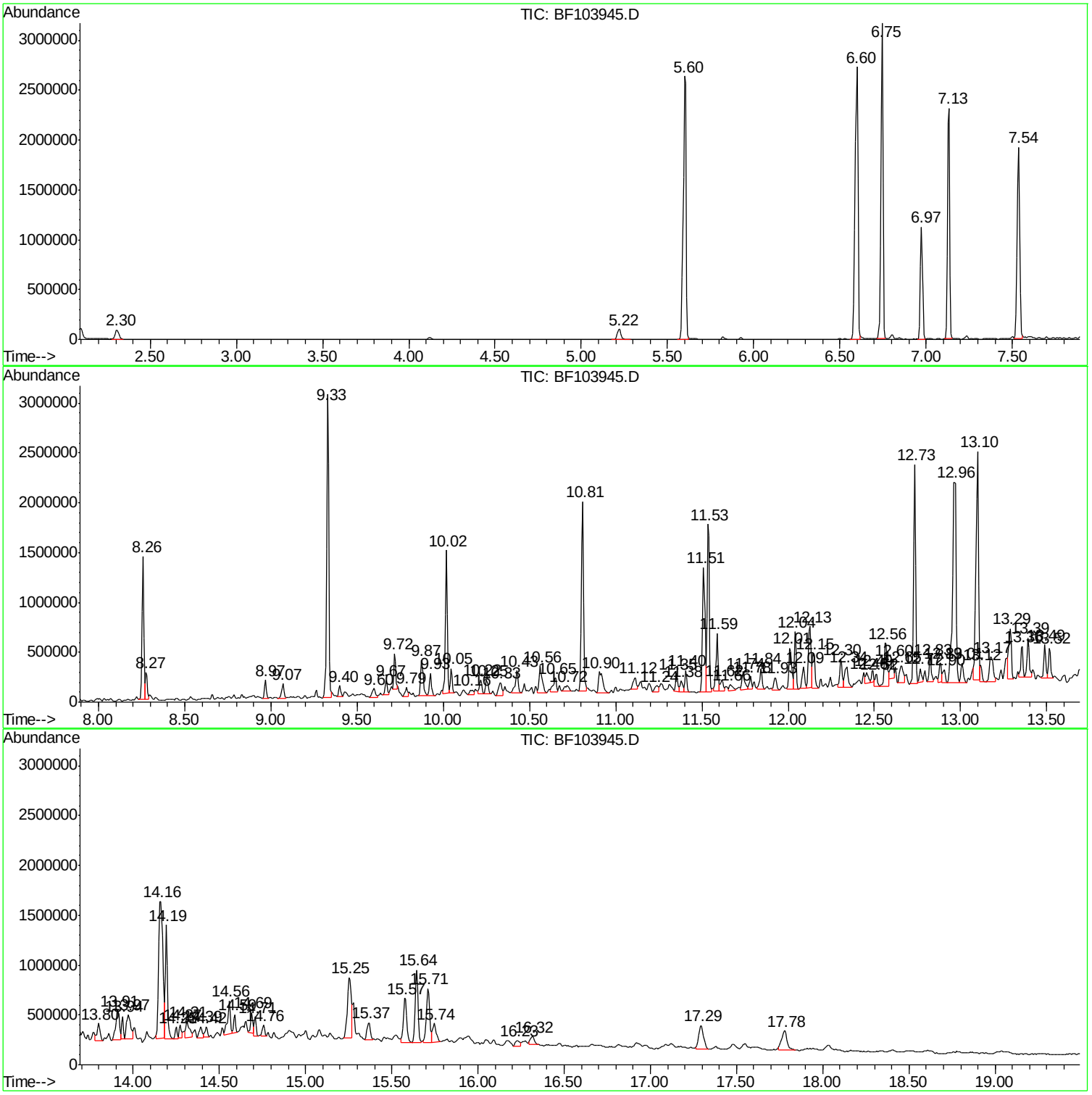
Instrument : BNA_F
ClientSampleId : SB-101(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.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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Instrument : BNA_F
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TIC Library : C:\DATABASE\NIST11.L
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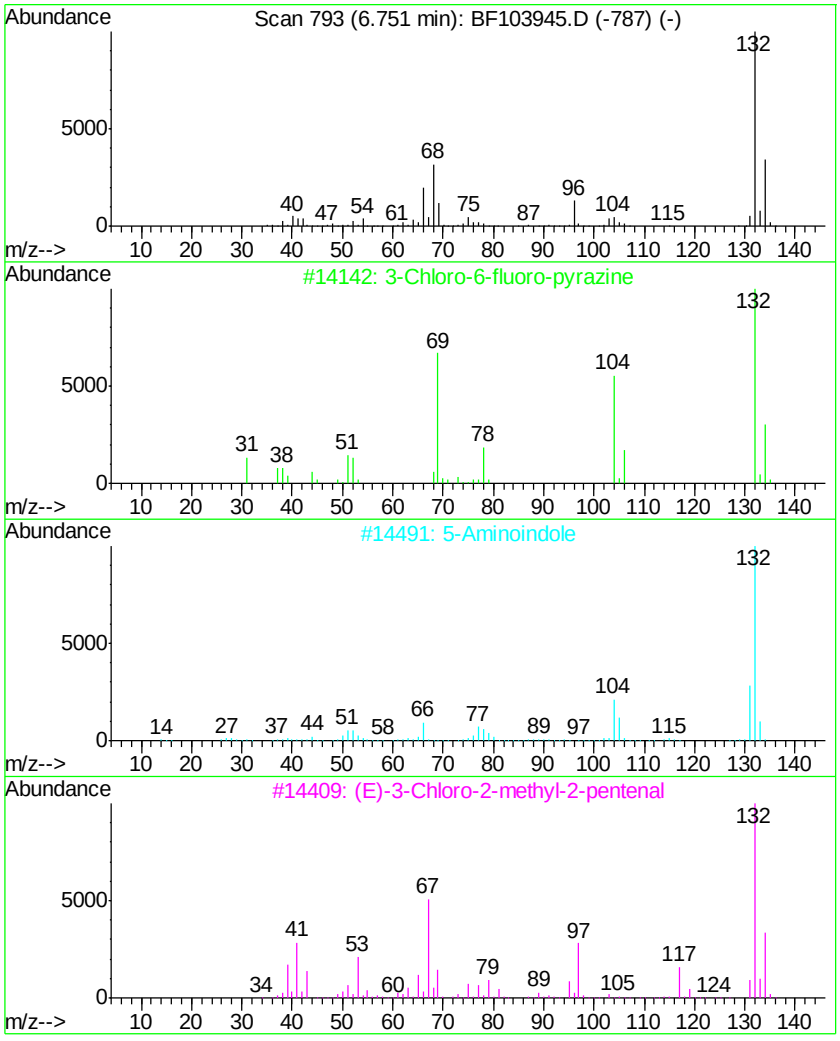
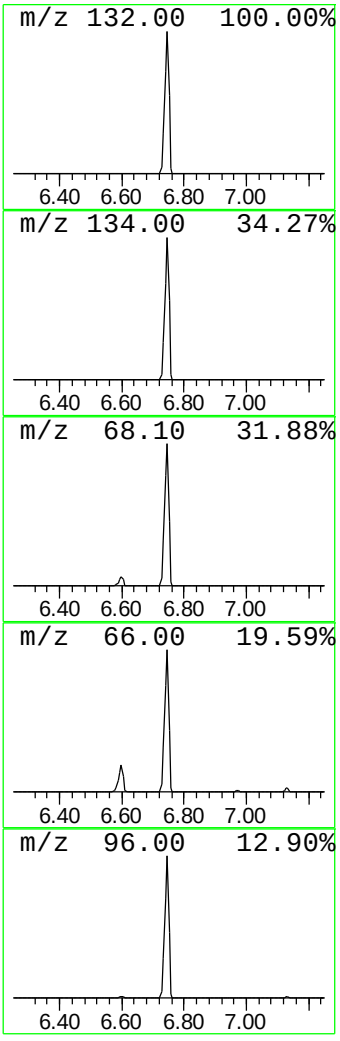
****

Peak Number 1 unknown6.75 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.75	66.41 ng	2910770	1,4-Dichlorobenzene-d4	6.97

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2	5-Aminoindole	132	C8H8N2	005192-03-0	12
3	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	12
4	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	10
5	Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10





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Sample : J1998-06
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Instrument : BNA_F
ClientSampleId : SB-101(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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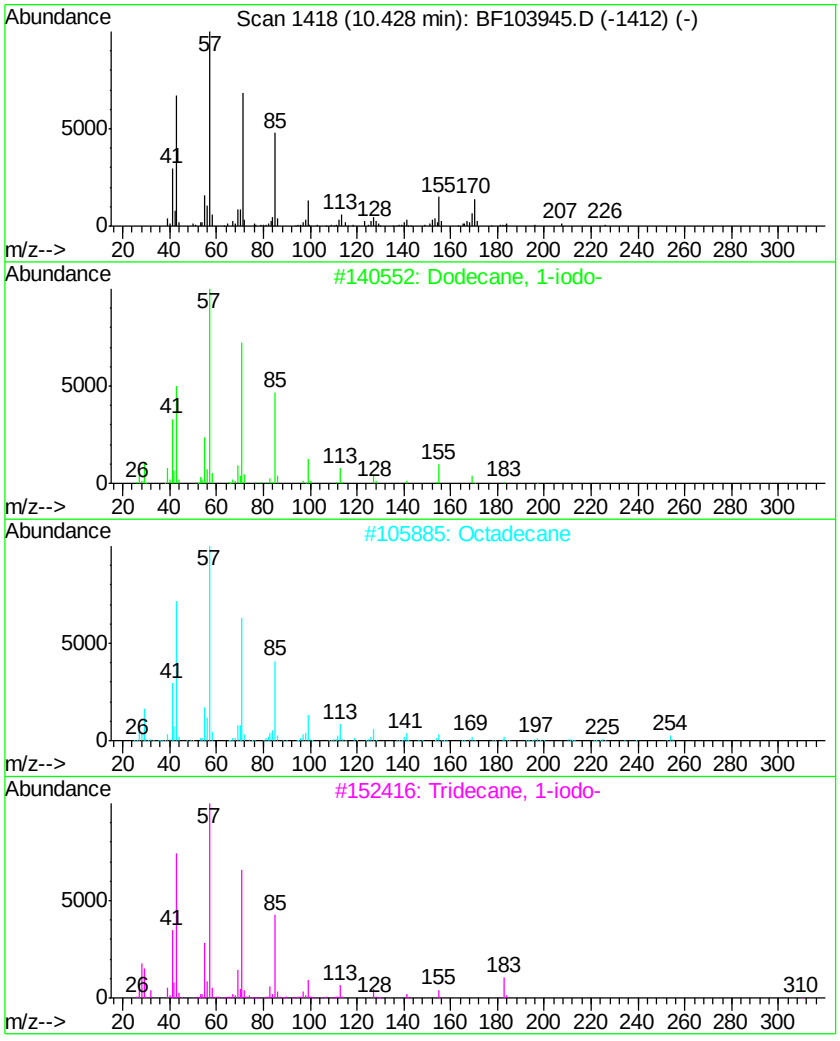
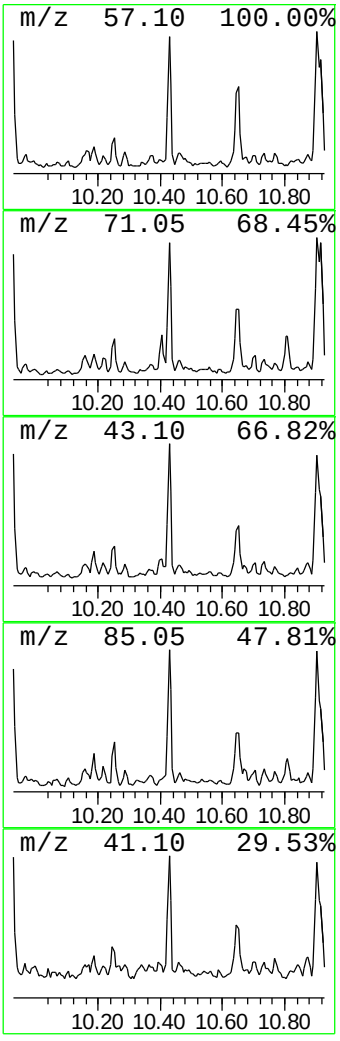
****

Peak Number 3 Dodecane, 1-iodo- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.43	4.61 ng	270171	Acenaphthene-d10	10.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	80
2	Octadecane	254	C18H38	000593-45-3	72
3	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	72
4	Tridecane	184	C13H28	000629-50-5	64
5	Dodecane, 2-methyl-	184	C13H28	001560-97-0	59





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
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Instrument : BNA_F
ClientSampleId : SB-101(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.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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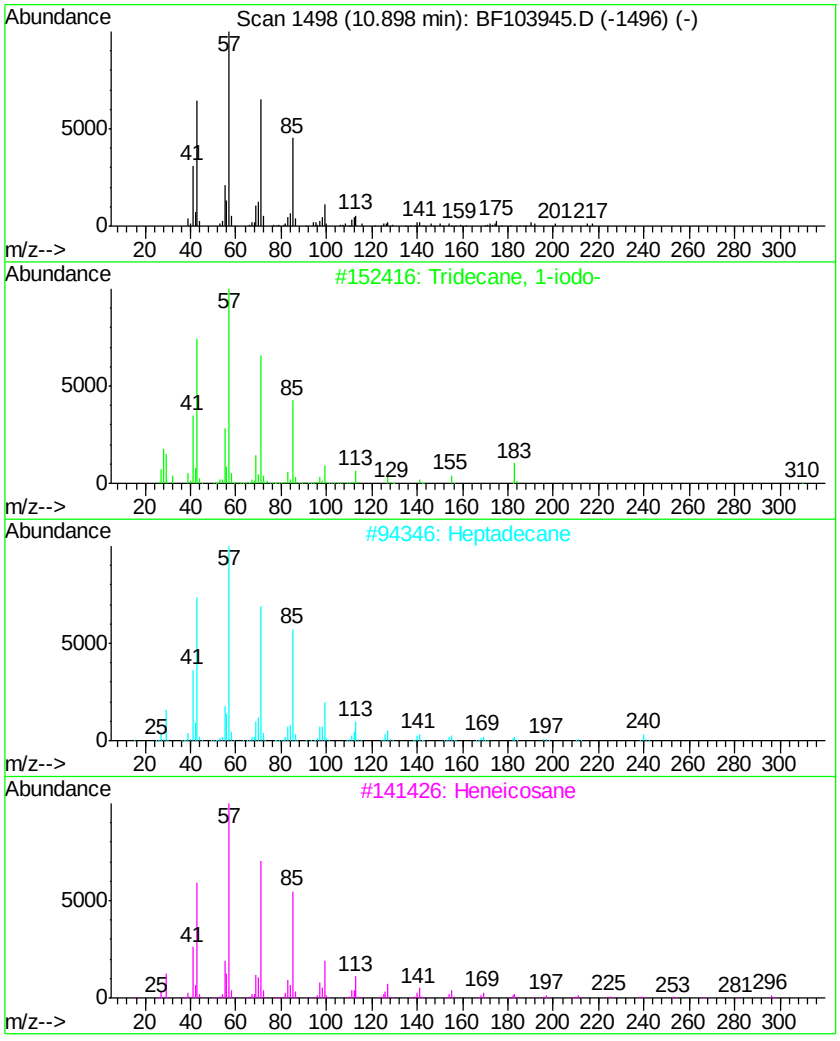
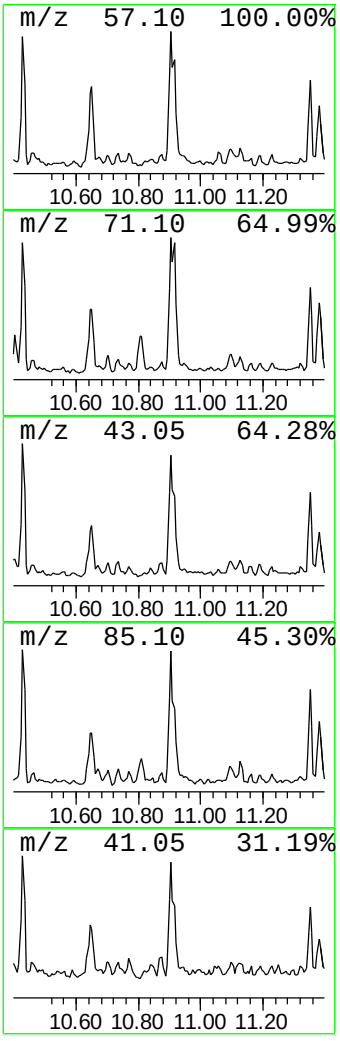
Peak Number 4 Tridecane, 1-iodo- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.90	7.18 ng	392655	Phenanthrene-d10	11.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	87
2	Heptadecane	240	C17H36	000629-78-7	87
3	Heneicosane	296	C21H44	000629-94-7	87
4	Hexadecane	226	C16H34	000544-76-3	86
5	Pentadecane	212	C15H32	000629-62-9	80





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ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-101(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.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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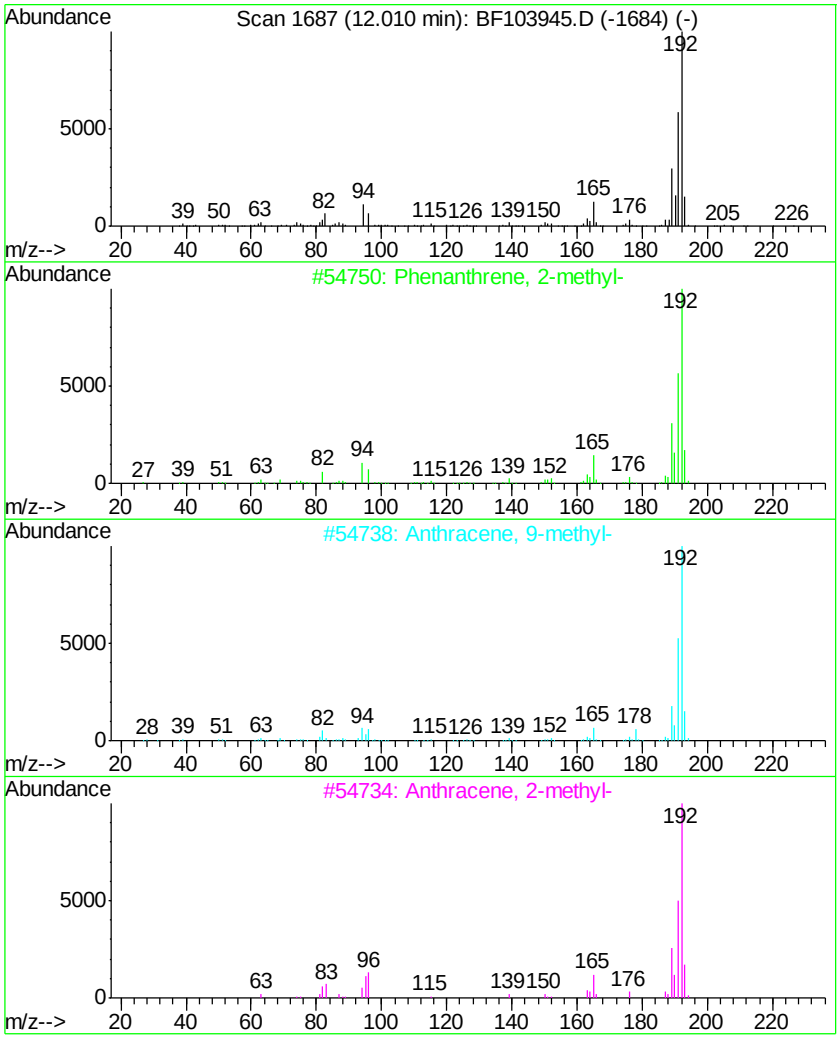
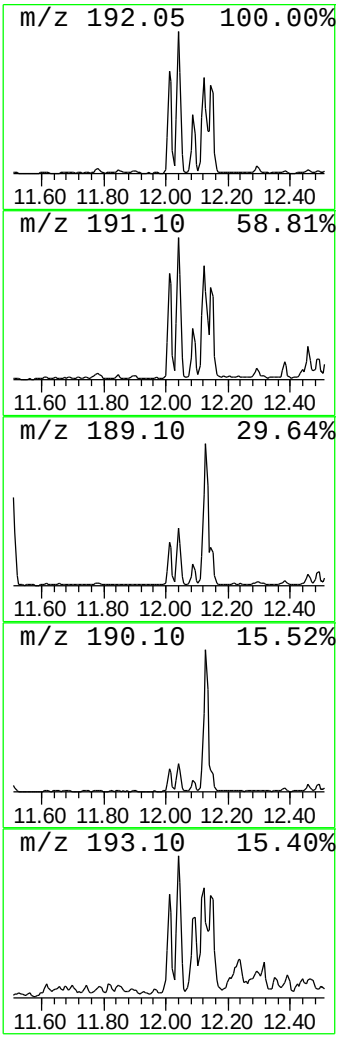
Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	7.97 ng	435823	Phenanthrene-d10	11.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90





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Sample : J1998-06
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-101(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

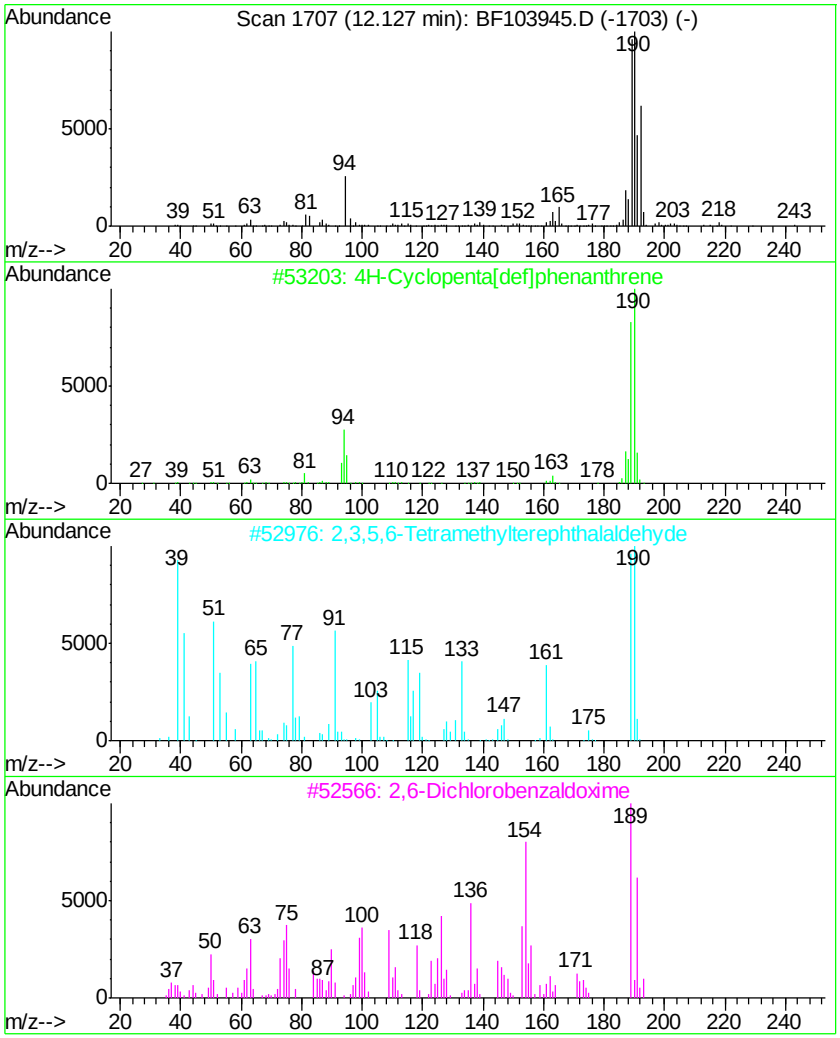
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

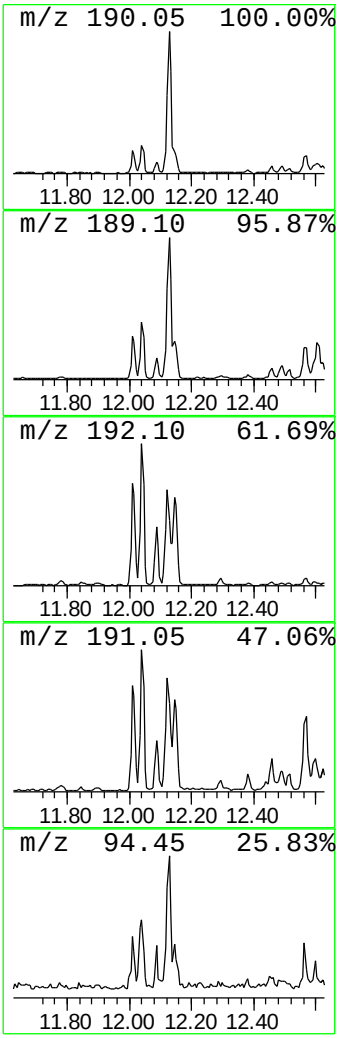
****

Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.13	13.79 ng	754315	Phenanthrene-d10	11.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	92
2	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	43
3	2,6-Dichlorobenzaldoxime	189	C7H5Cl2NO	025185-95-9	42
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	40
5	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	40





Data Path : Z:\HPCHEM1\BNA F\DATA\BF032618\
Data File : BF103945.D
Acq On : 27 Mar 2018 00:17
Operator : JU/SJ
Sample : J1998-06
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-101(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.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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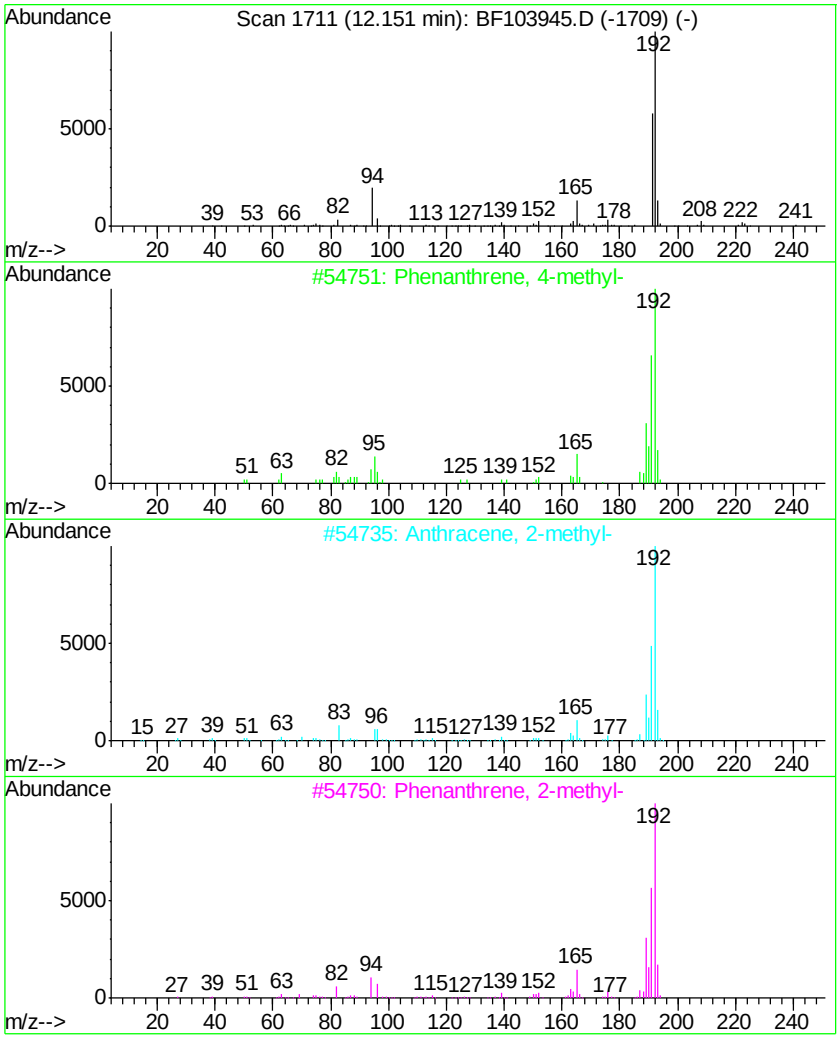
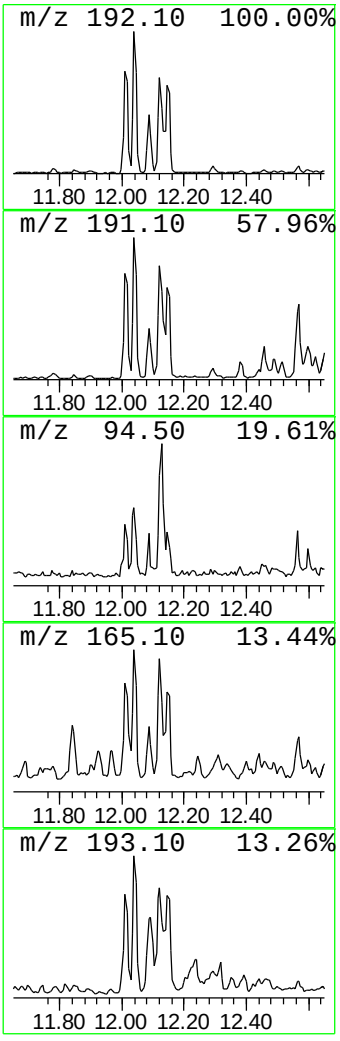
Peak Number 8 Phenanthrene, 4-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.15	5.01 ng	274243	Phenanthrene-d10	11.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	91
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	87
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	86
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	83
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	72





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Acq On : 27 Mar 2018 00:17
Operator : JU/SJ
Sample : J1998-06
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-101(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.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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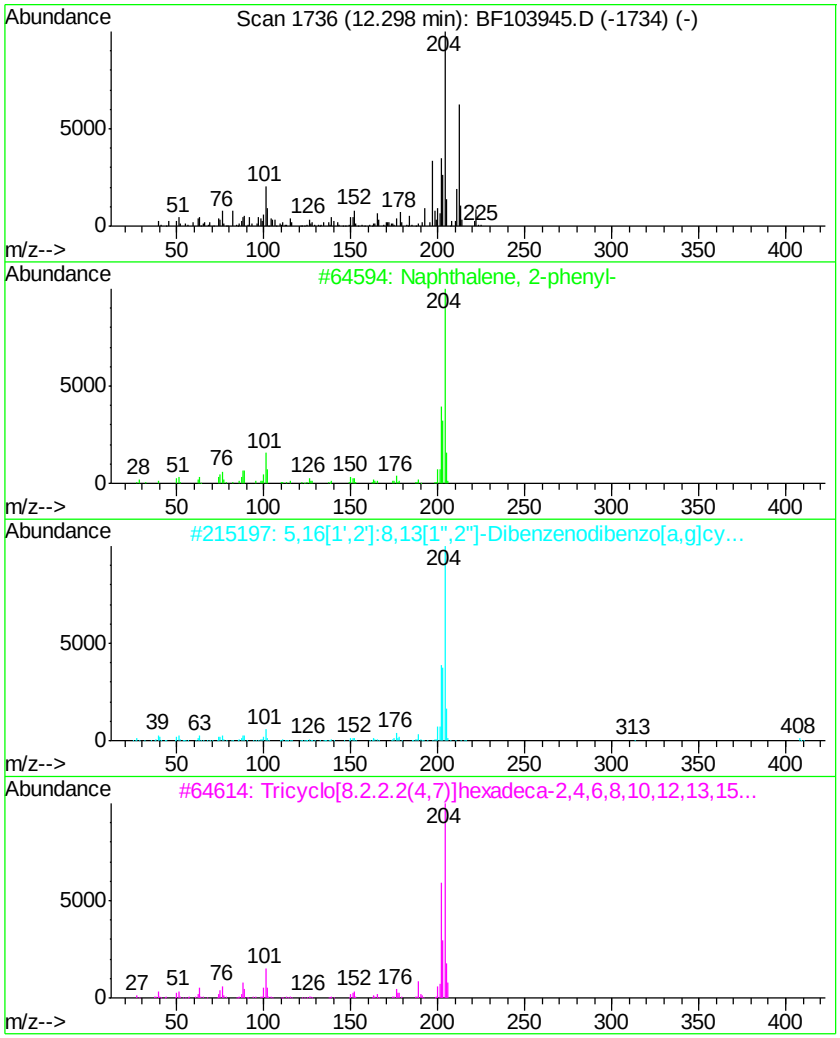
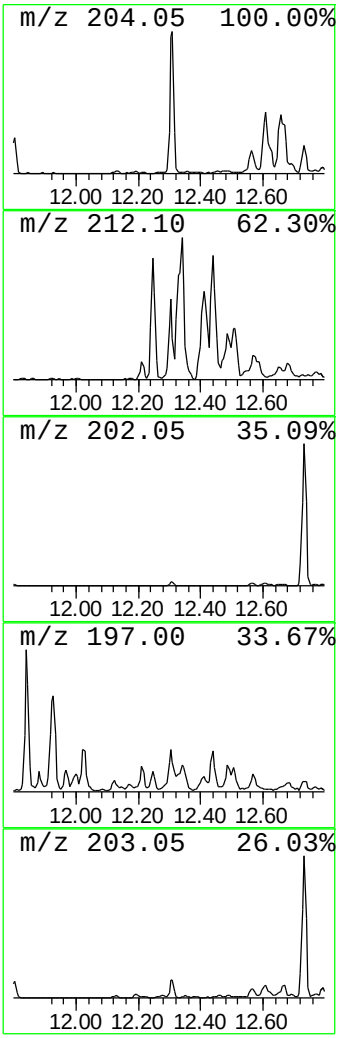
Peak Number 9 Naphthalene, 2-phenyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	5.59 ng	305677	Phenanthrene-d10	11.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	92
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	58
3	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	53
4	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	46
5	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	46





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Data File : BF103945.D
Acq On : 27 Mar 2018 00:17
Operator : JU/SJ
Sample : J1998-06
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-101(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.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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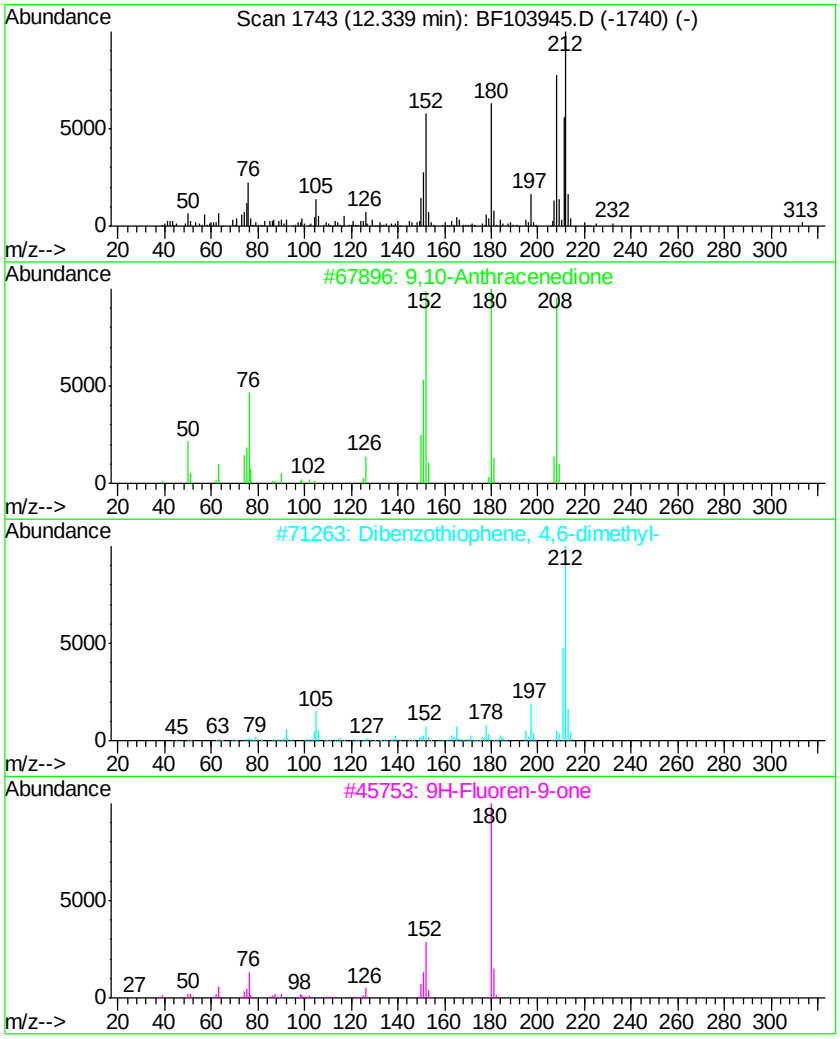
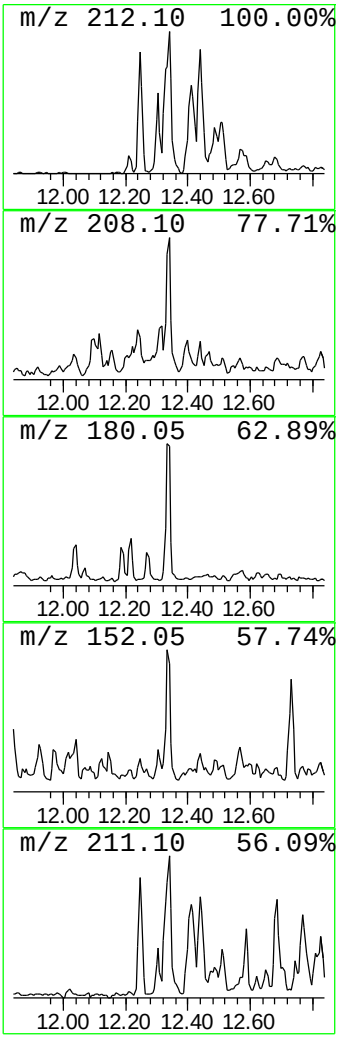
Peak Number 10 9,10-Anthracenedione Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.34	4.37 ng	239276	Phenanthrene-d10	11.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	87
2	Dibenzothiophene, 4,6-dimethyl-	212	C14H12S	001207-12-1	42
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	38
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	38
5	5,6-Dimethyl-1,10-phenanthroline	208	C14H12N2	003002-81-1	38





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Data File : BF103945.D
Acq On : 27 Mar 2018 00:17
Operator : JU/SJ
Sample : J1998-06
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-101(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.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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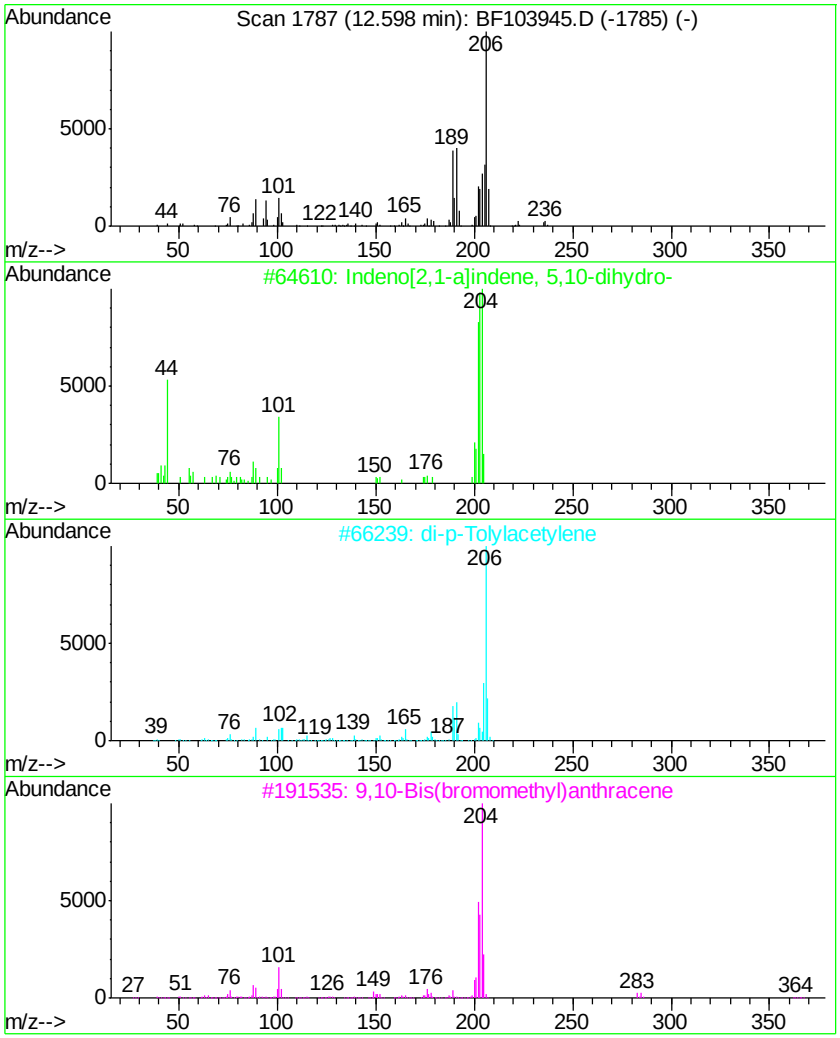
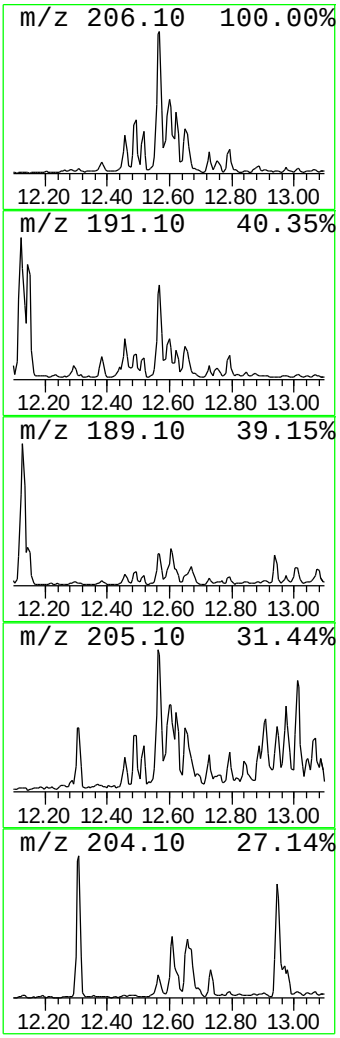
Peak Number 12 unknown12.60 Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.60	3.91 ng	213605	Phenanthrene-d10	11.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	44
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	38
3	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	35
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	35
5	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	30





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Operator : JU/SJ
Sample : J1998-06
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-101(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.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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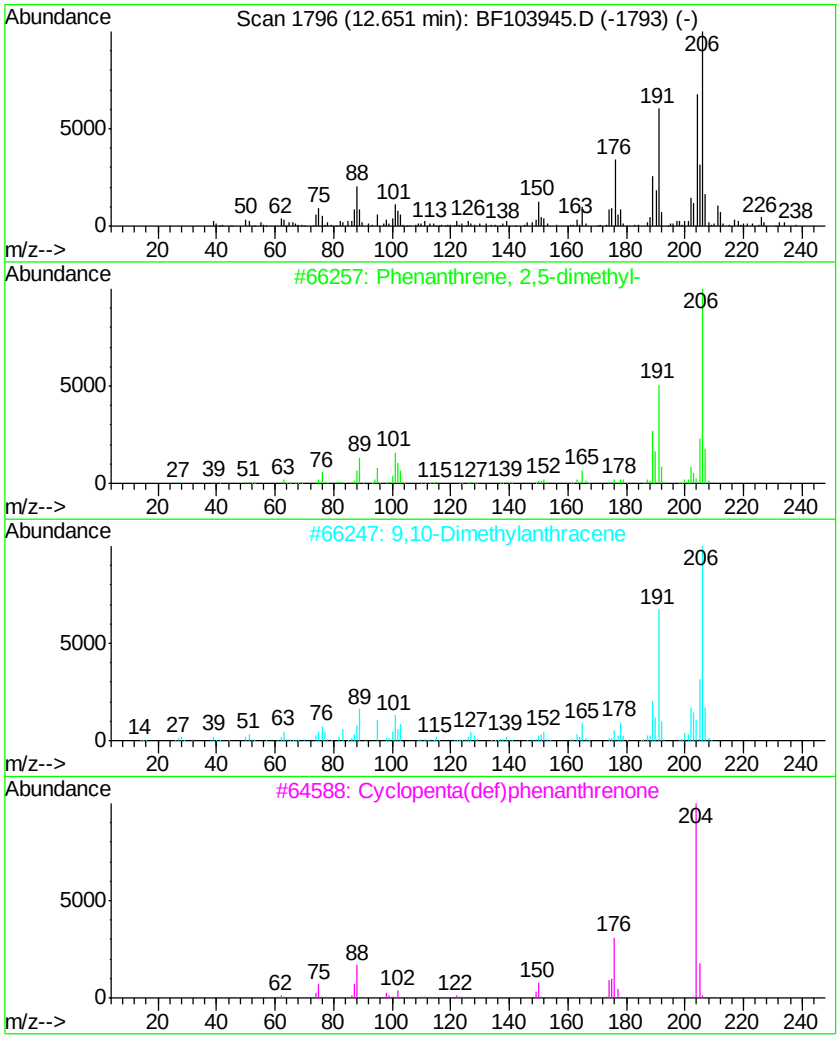
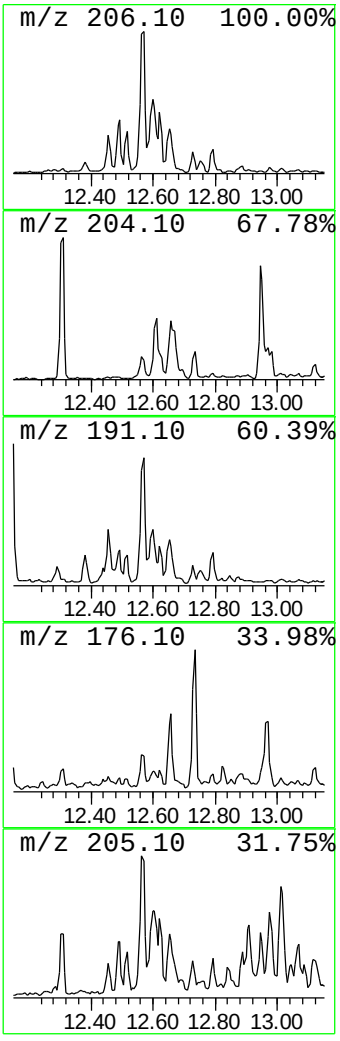
Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.65	4.75 ng	259658	Phenanthrene-d10	11.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	91
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
3	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	64
4	4-Phenyl-3-oxa-4,7-diazabicyclo(...	206	C11H14N2O2	021044-93-9	60
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	60





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Acq On : 27 Mar 2018 00:17
Operator : JU/SJ
Sample : J1998-06
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-101(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.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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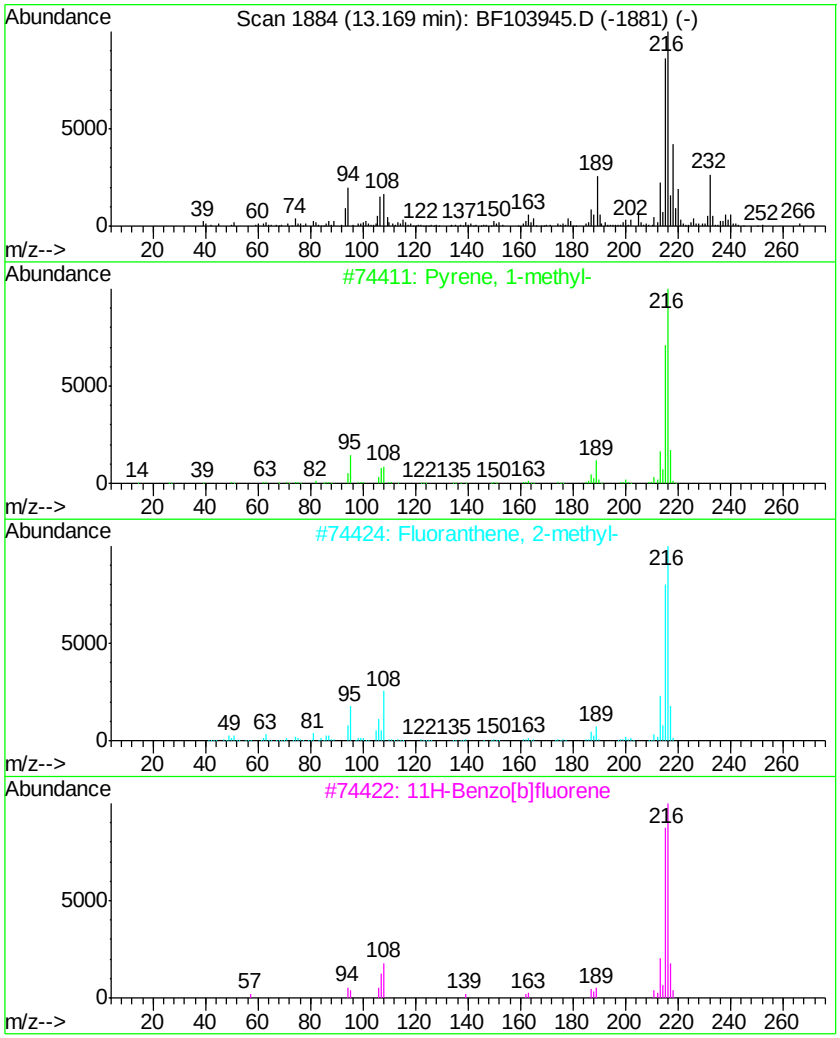
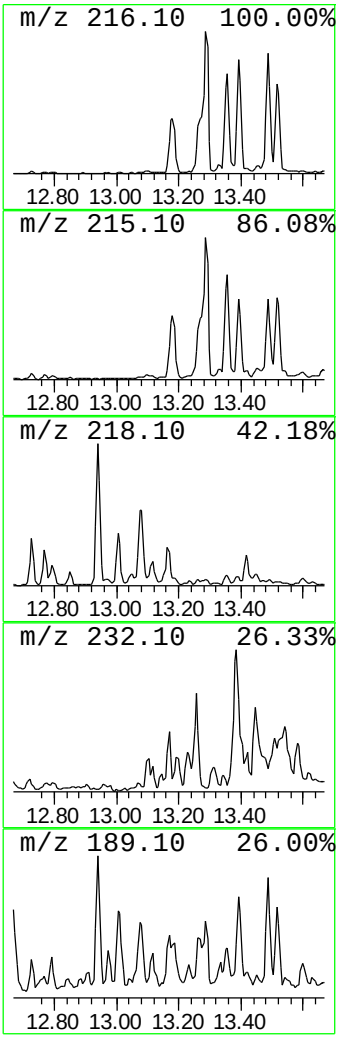
Peak Number 15 Pyrene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.17	3.87 ng	420726	Chrysene-d12	14.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	89
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	64





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Operator : JU/SJ
Sample : J1998-06
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-101(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.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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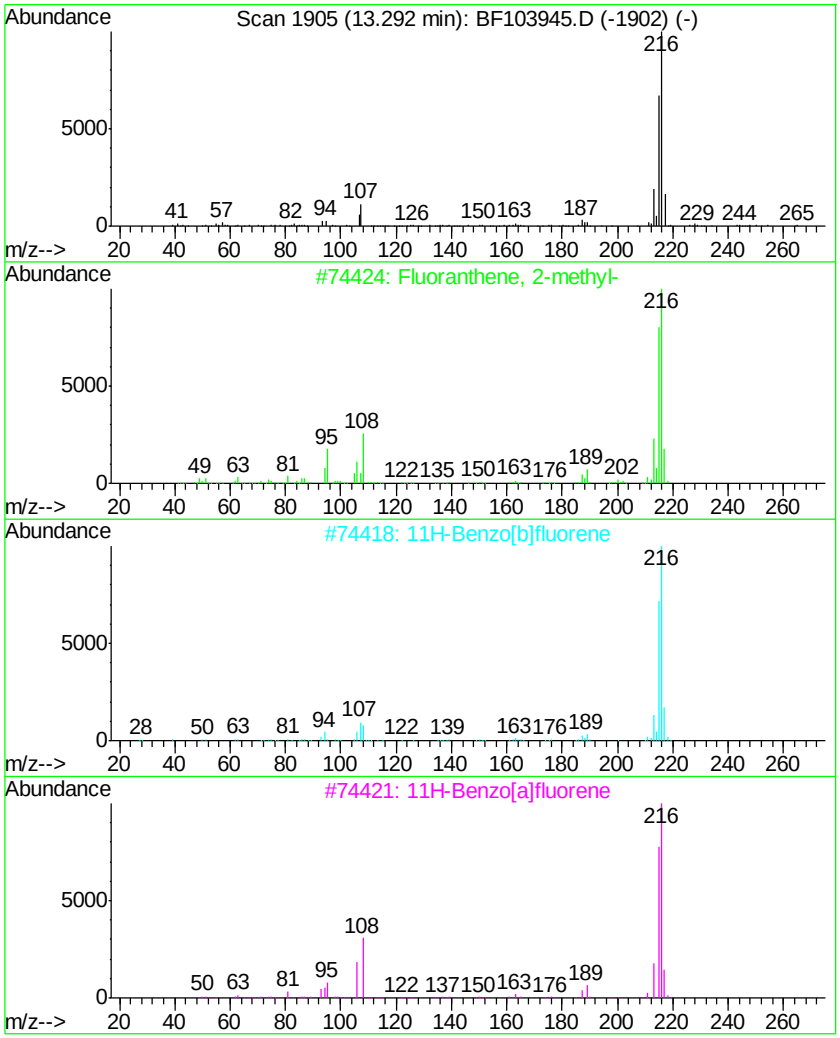
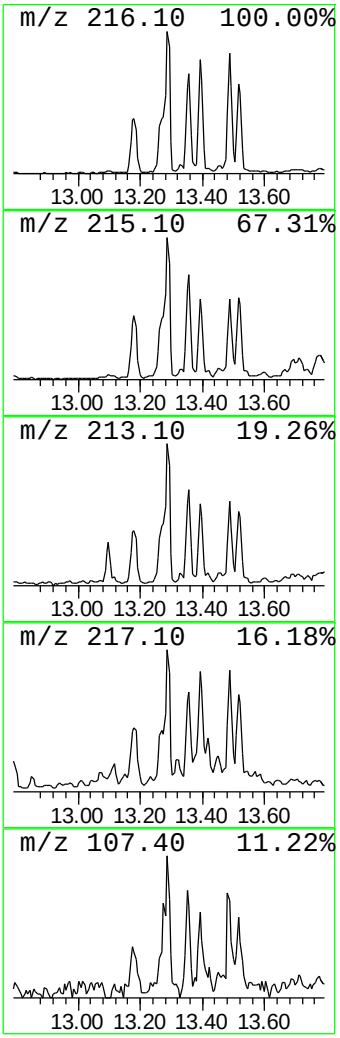
Peak Number 16 Fluoranthene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.29	4.05 ng	440187	Chrysene-d12	14.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	86





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Sample : J1998-06
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-101(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.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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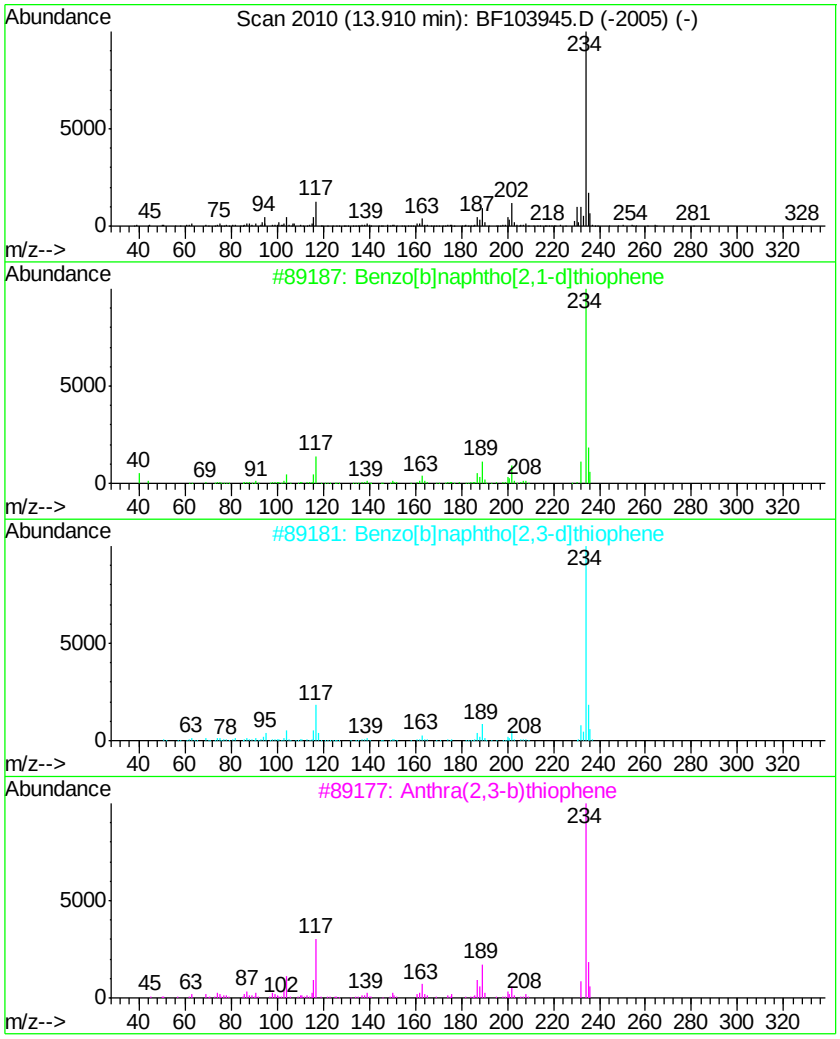
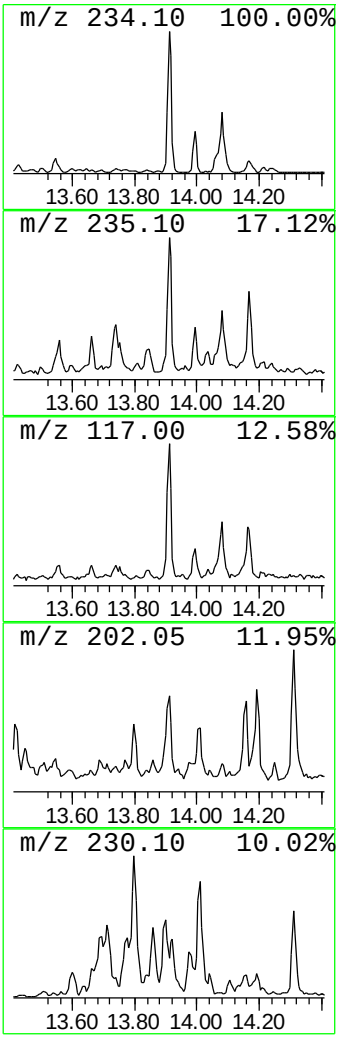
Peak Number 17 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.91	3.55 ng	386633	Chrysene-d12	14.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	98
2	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	94
3	Anthra(2,3-b)thiophene	234	C16H10S	022108-55-0	94
4	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	81
5	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	76





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Operator : JU/SJ
Sample : J1998-06
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-101(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.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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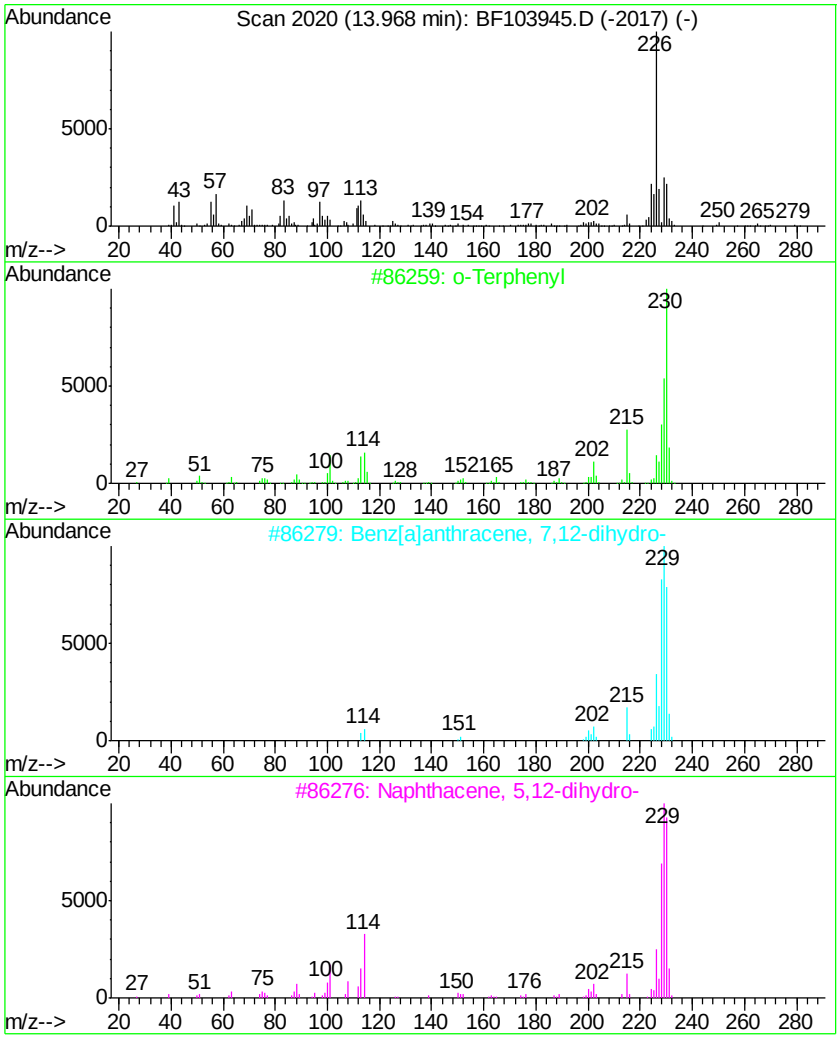
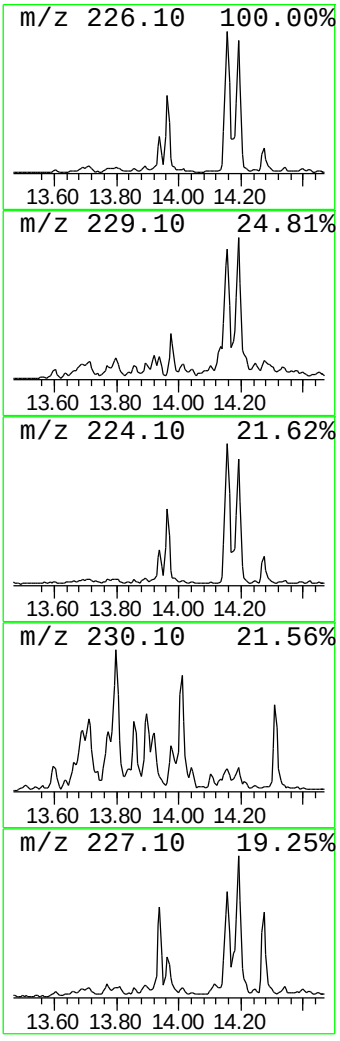
Peak Number 18 o-Terphenyl Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.97	3.71 ng	403401	Chrysene-d12	14.17

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Terphenyl	230	C18H14	000084-15-1	64
2	Benz[a]anthracene, 7,12-dihydro-	230	C18H14	016434-59-6	55
3	Naphthacene, 5,12-dihydro-	230	C18H14	000959-02-4	47
4	5,6-Dihydrochrysene	230	C18H14	002091-92-1	47
5	Benzo(a)acridine	229	C17H11N	000225-11-6	38





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Operator : JU/SJ
Sample : J1998-06
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-101(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
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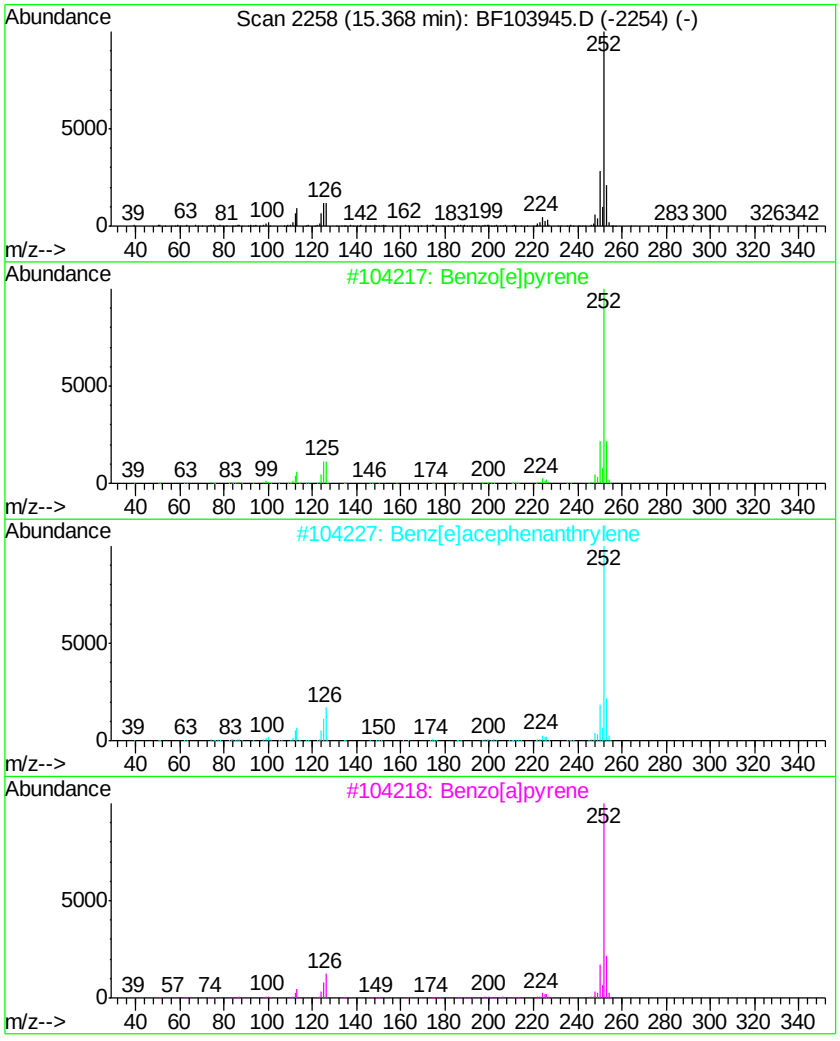
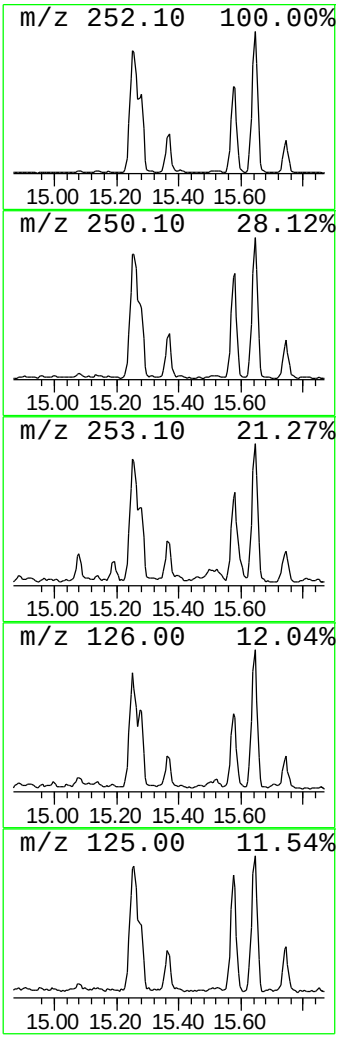
Peak Number 19 Benzo[e]pyrene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.37	4.97 ng	198700	Perylene-d12	15.71

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	96
3	Benzo[a]pyrene	252	C20H12	000050-32-8	93
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	91
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	81





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Sample : J1998-06
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-101(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.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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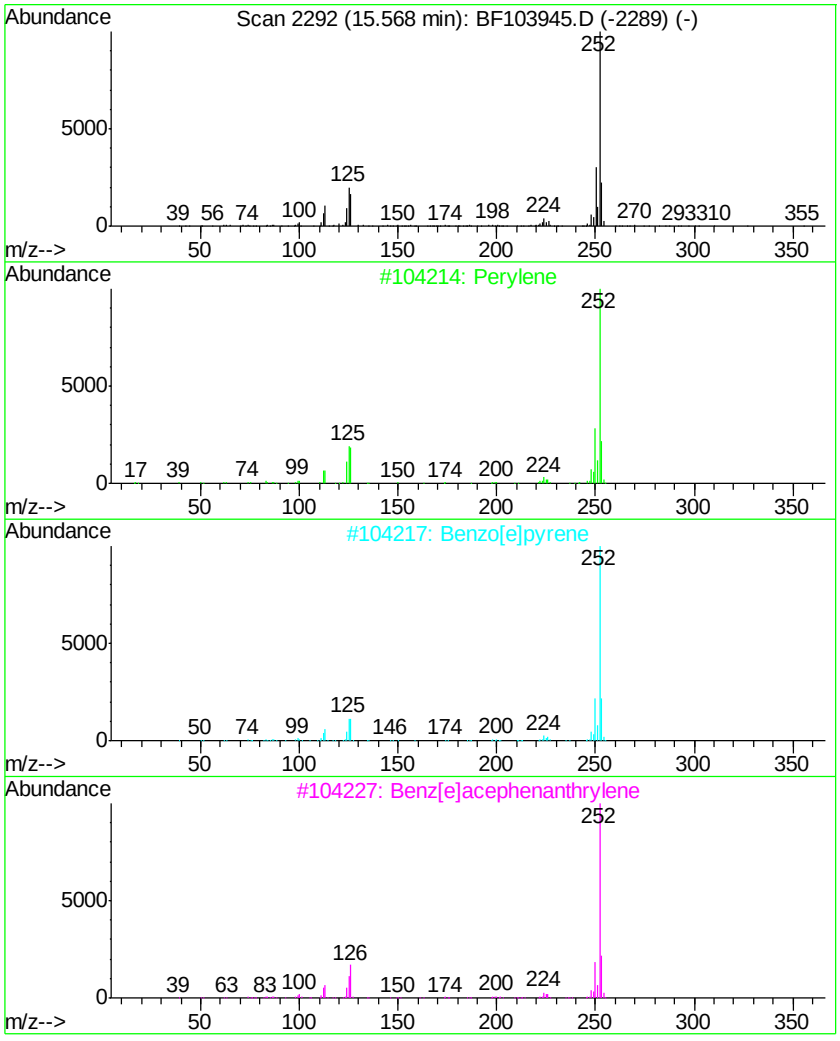
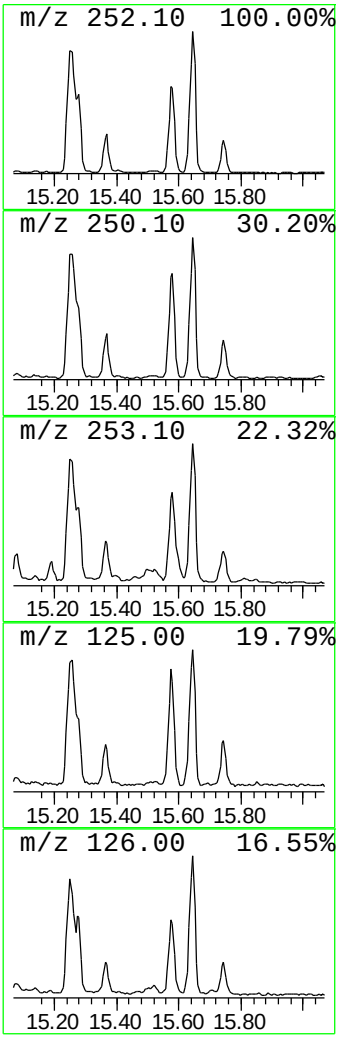
Peak Number 20 Perylene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.57	16.51 ng	660024	Perylene-d12	15.71

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





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF032618\
Data File : BF103945.D
Acq On : 27 Mar 2018 00:17
Operator : JU/SJ
Sample : J1998-06
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : SB-101(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF031518.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
unknown6.75	6.75	66.4	ng	2910770	1	6.97	876652	20.0
Dodecane, 1-iodo-	10.43	4.6	ng	270171	3	10.02	1172840	20.0
Tridecane, 1-iodo-	10.90	7.2	ng	392655	4	11.51	1093960	20.0
Phenanthrene, 2-m...	12.01	8.0	ng	435823	4	11.51	1093960	20.0
4H-Cyclopenta[def...	12.13	13.8	ng	754315	4	11.51	1093960	20.0
Phenanthrene, 4-m...	12.15	5.0	ng	274243	4	11.51	1093960	20.0
Naphthalene, 2-ph...	12.30	5.6	ng	305677	4	11.51	1093960	20.0
9,10-Anthracenedione	12.34	4.4	ng	239276	4	11.51	1093960	20.0
unknown12.60	12.60	3.9	ng	213605	4	11.51	1093960	20.0
Phenanthrene, 2,5...	12.65	4.8	ng	259658	4	11.51	1093960	20.0
Pyrene, 1-methyl-	13.17	3.9	ng	420726	5	14.17	2175210	20.0
Fluoranthene, 2-m...	13.29	4.0	ng	440187	5	14.17	2175210	20.0
Benzo[b]naphtho[2...	13.91	3.5	ng	386633	5	14.17	2175210	20.0
o-Terphenyl	13.97	3.7	ng	403401	5	14.17	2175210	20.0
Benzo[e]pyrene	15.37	5.0	ng	198700	6	15.71	799755	20.0
Perylene	15.57	16.5	ng	660024	6	15.71	799755	20.0