LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF102004.D
Acq On : 11 Jan 2018 2:37
Operator : SJ/JU
Sample : J1076-19 50X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WC-43-01

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-BF010918.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	3.693	266	273	279	rBV	98725	142489	1.28%	0.181%
2	5.298	541	546	548	rBV	105988	119198	1.07%	0.152%
3	6.357	722	726	729	rBV	765446	649691	5.82%	0.827%
4	6.551	755	759	762	rBV2	158396	164392	1.47%	0.209%
5	6.728	785	789	792	rBV	1433003	1220130	10.93%	1.552%
6	6.987	827	833	836	rBV	1787538	1679444	15.04%	2.137%
7	7.128	852	857	862	rBV	684875	641603	5.75%	0.816%
8	7.428	903	908	911	rBV2	109577	137530	1.23%	0.175%
9	7.663	938	948	953	rBV2	127678	175265	1.57%	0.223%
10	7.757	959	964	967	rBV2	139646	153919	1.38%	0.196%
11	7.792	967	970	976	rVB	268560	267765	2.40%	0.341%
12	8.039	1002	1012	1015	rBV2	7643325	11165608	100.00%	14.206%
13	8.081	1015	1019	1023	rVB	505431	382357	3.42%	0.486%
14	8.357	1063	1066	1070	rBV	499118	402716	3.61%	0.512%
15	8.645	1110	1115	1118	rBV	278141	248234	2.22%	0.316%
16	8.722	1123	1128	1131	rBV	3113880	2577637	23.09%	3.280%
17	8.769	1133	1136	1139	rBV	167556	144455	1.29%	0.184%
18	8.822	1139	1145	1148	rBV	1521614	1357512	12.16%	1.727%
19	9.181	1203	1206	1210	rVB	752392	640199	5.73%	0.815%
20	9.339	1228	1233	1238	rBV2	364477	509641	4.56%	0.648%
21	9.416	1242	1246	1249	rBV	480885	486270	4.36%	0.619%
22	9.445	1249	1251	1255	rVB	361407	275490	2.47%	0.351%
23	9.481	1255	1257	1261	rVB	212391	182828	1.64%	0.233%
24	9.534	1264	1266	1275	rVB	223376	254134	2.28%	0.323%
25	9.622	1277	1281	1284	rBV	2698473	2185752	19.58%	2.781%
26	9.763	1299	1305	1307	rBV2	1614785	1690291	15.14%	2.151%
27	9.792	1307	1310	1313	rVV	1060942	854445	7.65%	1.087%
28	9.963	1335	1339	1343	rVB	2123095	1844326	16.52%	2.347%
29	10.069	1354	1357	1360	rBV2	116681	130638	1.17%	0.166%
30	10.210	1378	1381	1384	rVB	204424	157886	1.41%	0.201%
31	10.310	1394	1398	1403	rVB	3220118	2861227	25.63%	3.640%
32	10.410	1413	1415	1421	rVV	178957	184195	1.65%	0.234%
33	10.463	1421	1424	1426	rVV	459460	368957	3.30%	0.469%
34	10.539	1431	1437	1442	rVV2	486067	866235	7.76%	1.102%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF102004.D
Acq On : 11 Jan 2018 2:37
Operator : SJ/JU
Sample : J1076-19 50X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WC-43-01

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-BF010918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.851	1482	1490	1493	rBV2	374357	426826	3.82%	0.543%
36	10.933	1501	1504	1509	rBV	162050	155865	1.40%	0.198%
37	11.139	1534	1539	1545	rVB	485265	484620	4.34%	0.617%
38	11.245	1553	1557	1558	rBV	1249687	1204164	10.78%	1.532%
39	11.275	1558	1562	1565	rVV	5456962	5684917	50.91%	7.233%
40	11.322	1565	1570	1573	rVV	2729326	2359050	21.13%	3.001%
41	11.351	1573	1575	1580	rVB2	152294	133287	1.19%	0.170%
42	11.451	1589	1592	1593	rBV	173455	143683	1.29%	0.183%
43	11.475	1593	1596	1598	rVB	937269	763674	6.84%	0.972%
44	11.539	1603	1607	1610	rVV4	185957	187969	1.68%	0.239%
45	11.739	1636	1641	1644	rBV	558819	567659	5.08%	0.722%
46	11.769	1644	1646	1651	rVB	872951	700647	6.28%	0.891%
47	11.816	1651	1654	1657	rBV	391333	338693	3.03%	0.431%
48	11.857	1657	1661	1663	rBV	1290395	1249571	11.19%	1.590%
49	12.039	1689	1692	1694	rBV	423942	326105	2.92%	0.415%
50	12.286	1729	1734	1738	rBV2	178021	237307	2.13%	0.302%
51	12.327	1738	1741	1743	rBV	125486	139618	1.25%	0.178%
52	12.457	1758	1763	1766	rBV	3716250	3576058	32.03%	4.550%
53	12.510	1766	1772	1775	rVV3	91233	157345	1.41%	0.200%
54	12.545	1775	1778	1781	rVV	830899	671591	6.01%	0.854%
55	12.598	1781	1787	1789	rVV2	119096	183875	1.65%	0.234%
56	12.680	1795	1801	1807	rBV2	2740653	3259529	29.19%	4.147%
57	12.727	1807	1809	1814	rVB2	193434	177293	1.59%	0.226%
58	12.798	1817	1821	1824	rBV	277677	240838	2.16%	0.306%
59	12.833	1824	1827	1832	rVB	206044	212978	1.91%	0.271%
60	12.898	1832	1838	1841	rBV4	213047	374803	3.36%	0.477%
61	12.980	1846	1852	1854	rBV4	212908	318400	2.85%	0.405%
62	13.004	1854	1856	1859	rVB	736982	683220	6.12%	0.869%
63	13.074	1865	1868	1871	rBV	903651	738083	6.61%	0.939%
64	13.110	1871	1874	1877	rVV2	335896	321242	2.88%	0.409%
65	13.174	1881	1885	1888	rBV	347241	368347	3.30%	0.469%
66	13.204	1888	1890	1892	rVV	144334	120180	1.08%	0.153%
67	13.233	1892	1895	1901	rVB2	176158	217244	1.95%	0.276%
68	13.486	1935	1938	1941	rBV3	99910	129682	1.16%	0.165%
69	13.621	1955	1961	1964	rBV2	197727	269228	2.41%	0.343%
70	13.651	1964	1966	1968	rBV	271489	214963	1.93%	0.274%
71	13.869	1999	2003	2007	rBV2	2027407	2885092	25.84%	3.671%

LSC Area Percent Report

Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF102004.D
Acq On : 11 Jan 2018 2:37
Operator : SJ/JU
Sample : J1076-19 50X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WC-43-01

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-BF010918.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.904	2007	2009	2014	rVB	1309567	1128876	10.11%	1.436%
73	14.063	2033	2036	2038	rBV	169609	149995	1.34%	0.191%
74	14.098	2038	2042	2046	rVB2	174861	202509	1.81%	0.258%
75	14.198	2055	2059	2061	rBV2	97815	117981	1.06%	0.150%
76	14.257	2066	2069	2072	rVV	336021	404845	3.63%	0.515%
77	14.292	2072	2075	2079	rVV2	172302	188908	1.69%	0.240%
78	14.351	2082	2085	2088	rVV2	282808	310715	2.78%	0.395%
79	14.380	2088	2090	2092	rVV	198549	211723	1.90%	0.269%
80	14.404	2092	2094	2099	rVV2	327991	373122	3.34%	0.475%
81	14.457	2099	2103	2108	rVB4	92261	127134	1.14%	0.162%
82	14.892	2172	2177	2180	rBV	1085766	1837519	16.46%	2.338%
83	14.916	2180	2181	2186	rVV	760199	457119	4.09%	0.582%
84	14.992	2190	2194	2198	rVB	387510	439610	3.94%	0.559%
85	15.092	2205	2211	2215	rBV3	93121	179951	1.61%	0.229%
86	15.174	2220	2225	2231	rVB	661058	877644	7.86%	1.117%
87	15.239	2231	2236	2241	rBV	1105064	1349831	12.09%	1.717%
88	15.298	2241	2246	2248	rBV	885620	1121007	10.04%	1.426%
89	15.321	2248	2250	2257	rVB2	353033	460532	4.12%	0.586%
90	15.486	2270	2278	2279	rBV3	115413	235708	2.11%	0.300%
91	15.639	2300	2304	2309	rVB3	91145	165821	1.49%	0.211%
92	15.751	2318	2323	2328	rVV4	76010	138909	1.24%	0.177%
93	15.815	2331	2334	2339	rVB	119265	150906	1.35%	0.192%
94	16.498	2444	2450	2451	rBV2	82036	126079	1.13%	0.160%
95	16.668	2472	2479	2485	rVB3	410793	851507	7.63%	1.083%
96	16.739	2486	2491	2501	rBV3	57278	138898	1.24%	0.177%
97	16.833	2501	2507	2511	rBV	116663	212797	1.91%	0.271%
98	17.080	2542	2549	2564	rVB	327199	728527	6.52%	0.927%
99	17.298	2580	2586	2593	rVB	134045	246387	2.21%	0.313%
100	19.186	2896	2907	2918	rVB2	80534	315769	2.83%	0.402%

Sum of corrected areas: 78596434

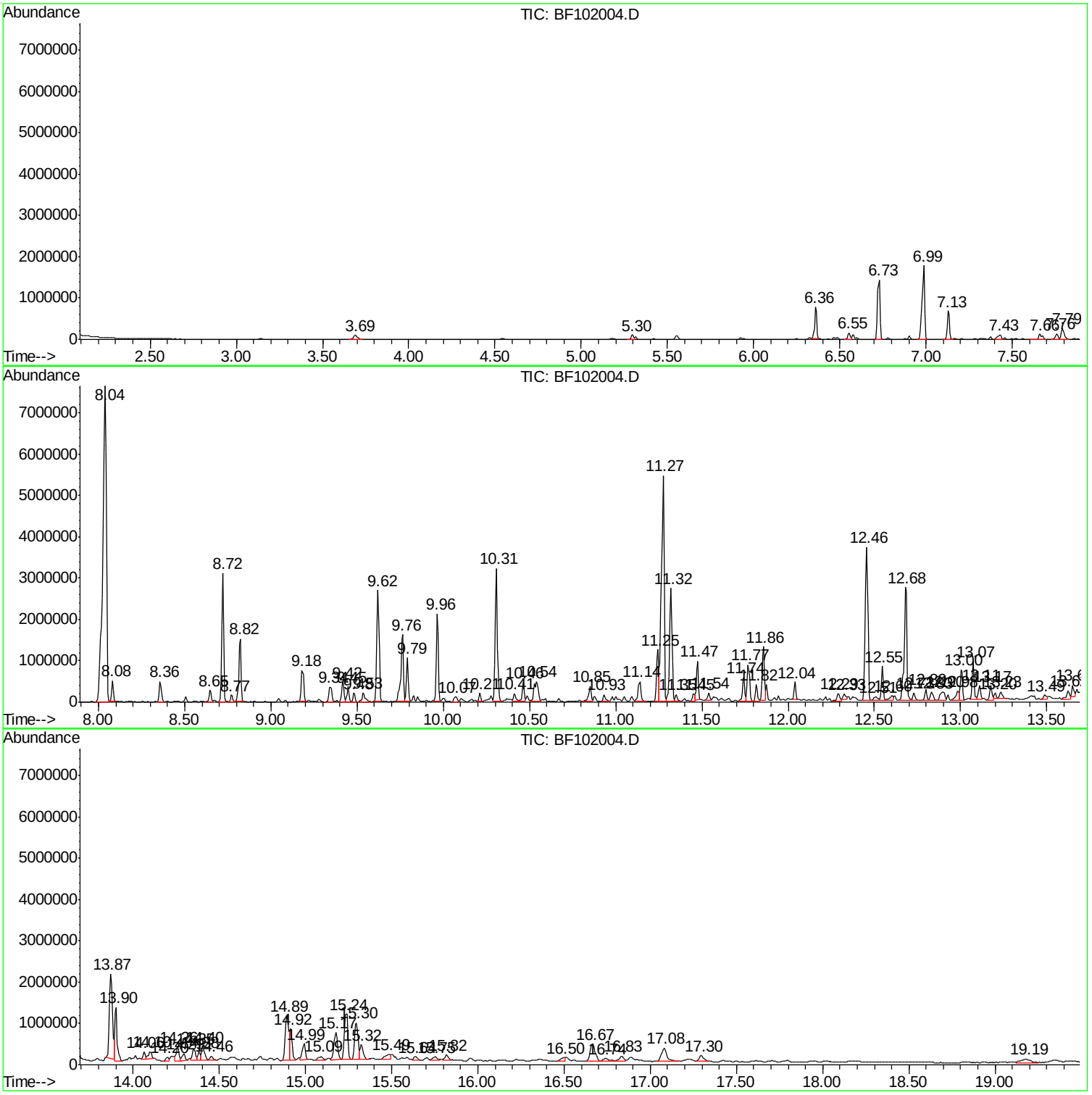
LSC Report - Integrated Chromatogram

Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF102004.D
Acq On : 11 Jan 2018 2:37
Operator : SJ/JU
Sample : J1076-19 50X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WC-43-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF102004.D
Acq On : 11 Jan 2018 2:37
Operator : SJ/JU
Sample : J1076-19 50X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WC-43-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

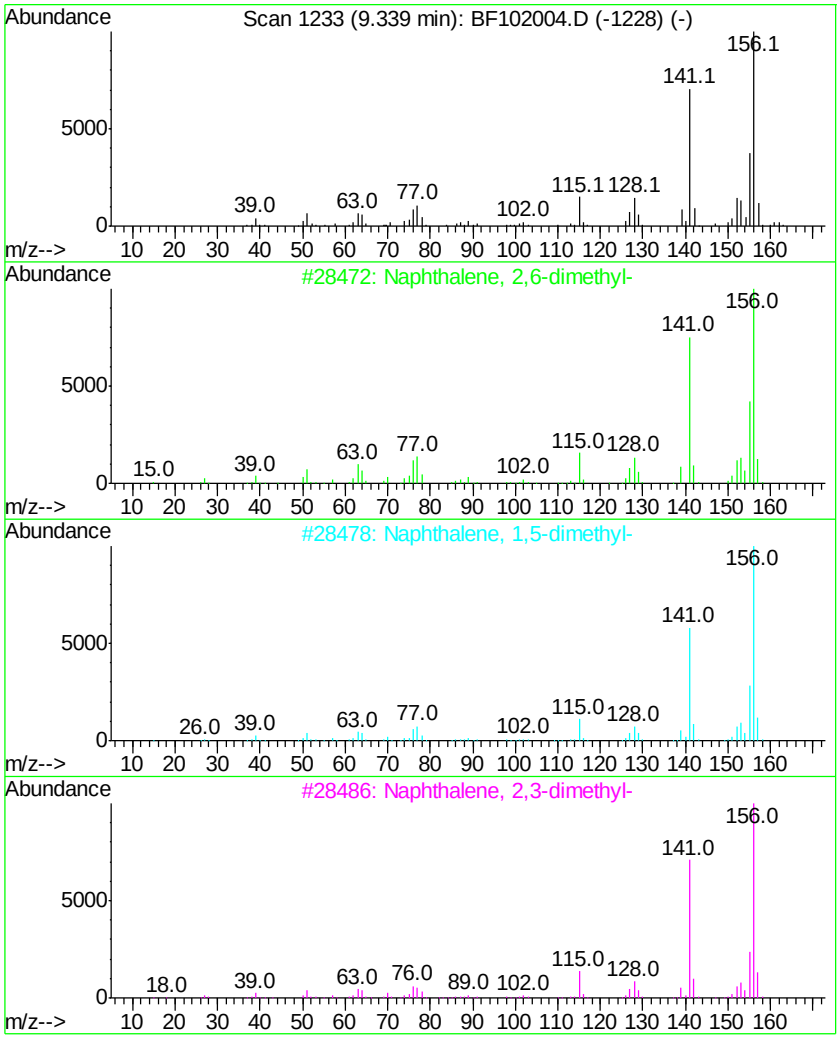
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

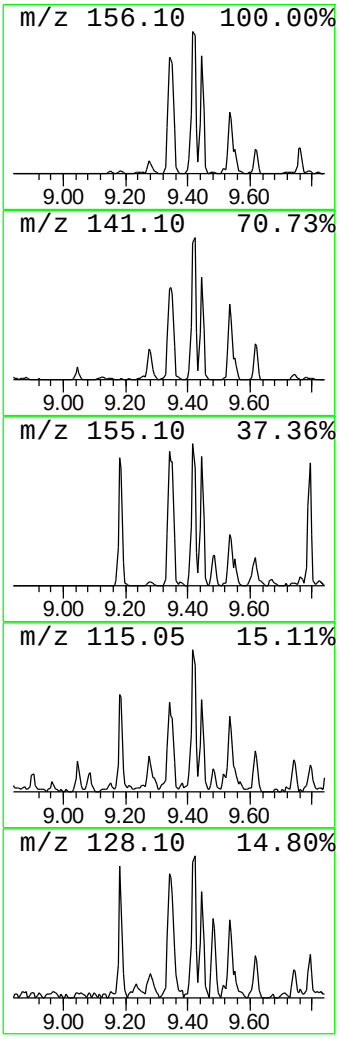
****

Peak Number 1 Naphthalene, 2,6-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.34	6.03 ng	509641	Acenaphthene-d10	9.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
2	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
3	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
4	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97





Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF102004.D
Acq On : 11 Jan 2018 2:37
Operator : SJ/JU
Sample : J1076-19 50X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WC-43-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

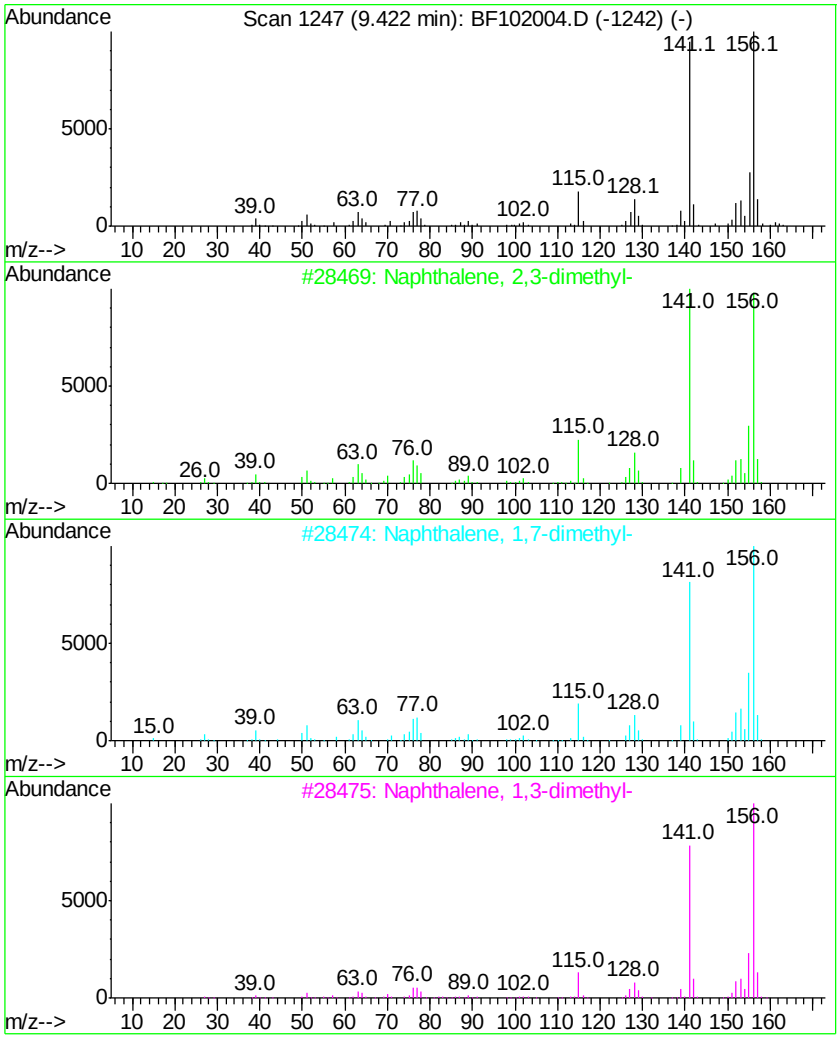
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

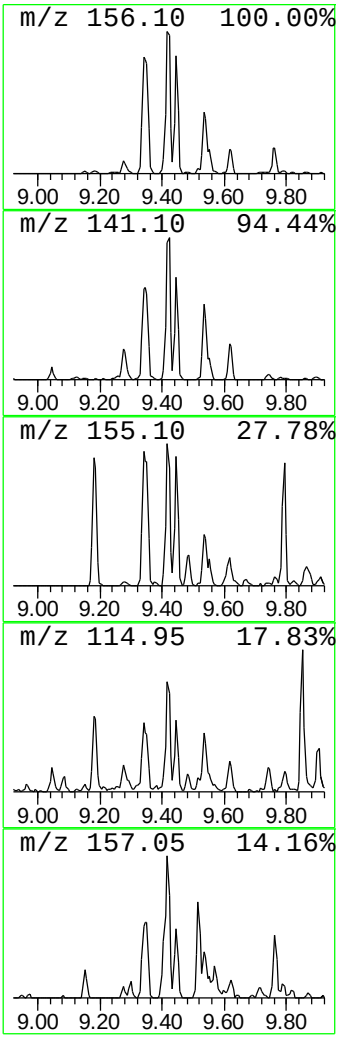
****

Peak Number 2 Naphthalene, 2,3-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.42	5.75 ng	486270	Acenaphthene-d10	9.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96





Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF102004.D
Acq On : 11 Jan 2018 2:37
Operator : SJ/JU
Sample : J1076-19 50X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WC-43-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.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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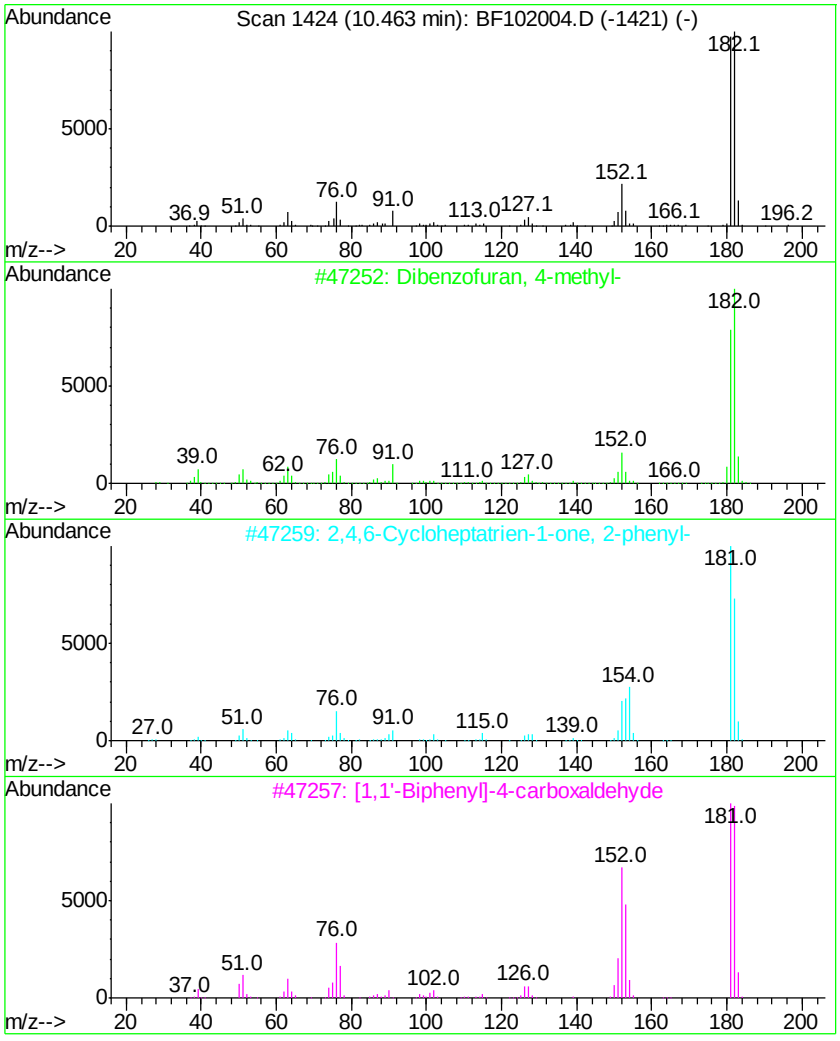
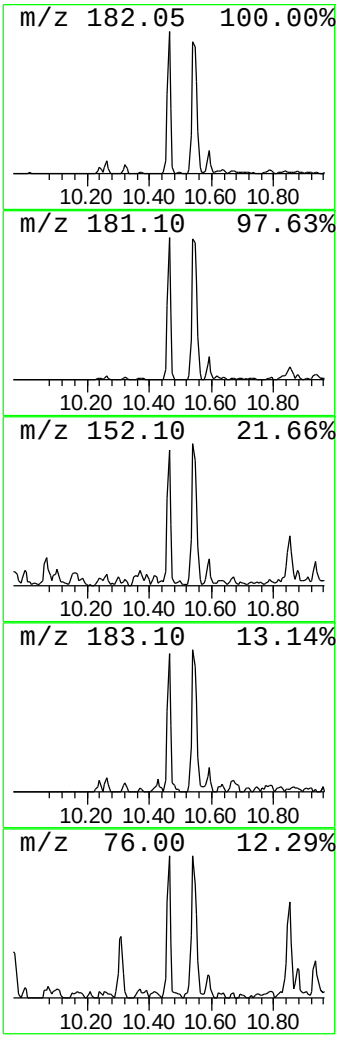
Peak Number 3 Dibenzofuran, 4-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.46	4.37 ng	368957	Acenaphthene-d10	9.76

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	94
2	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	86
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	78
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	72
5	9H-Xanthene	182	C13H10O	000092-83-1	64





Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF102004.D
Acq On : 11 Jan 2018 2:37
Operator : SJ/JU
Sample : J1076-19 50X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WC-43-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

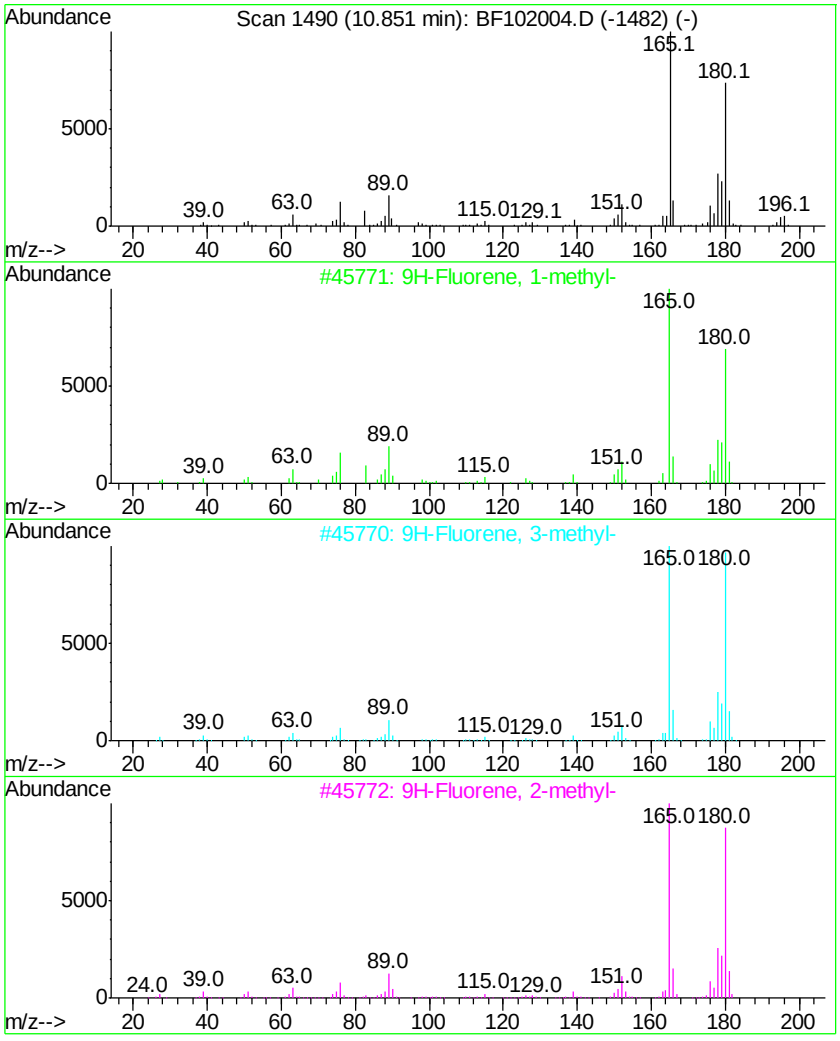
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

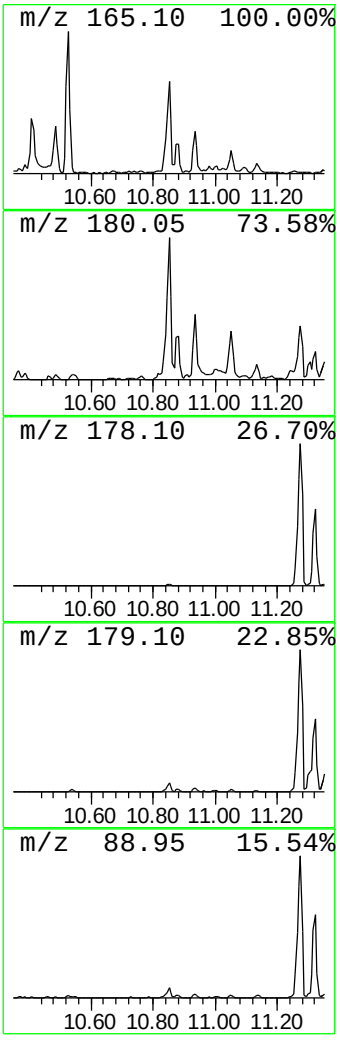
****

Peak Number 5 9H-Fluorene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.85	7.09 ng	426826	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	97
2	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	95
3	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	93
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	91
5	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	89





Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF102004.D
Acq On : 11 Jan 2018 2:37
Operator : SJ/JU
Sample : J1076-19 50X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WC-43-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

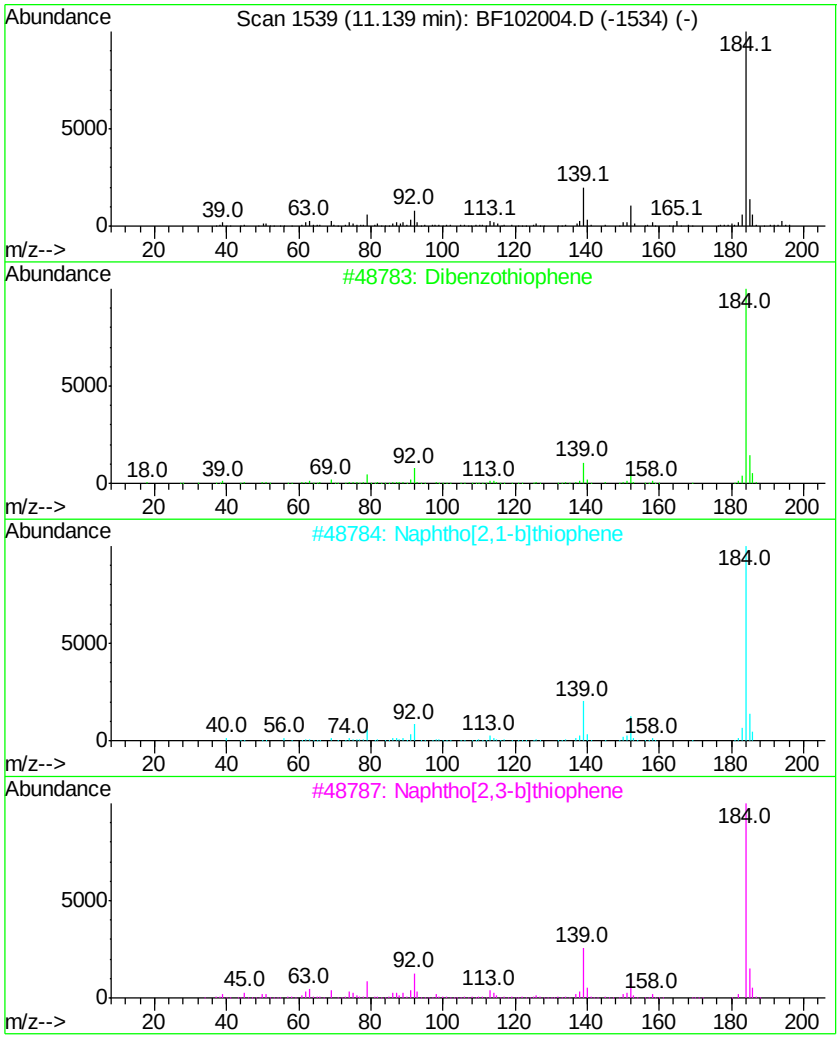
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

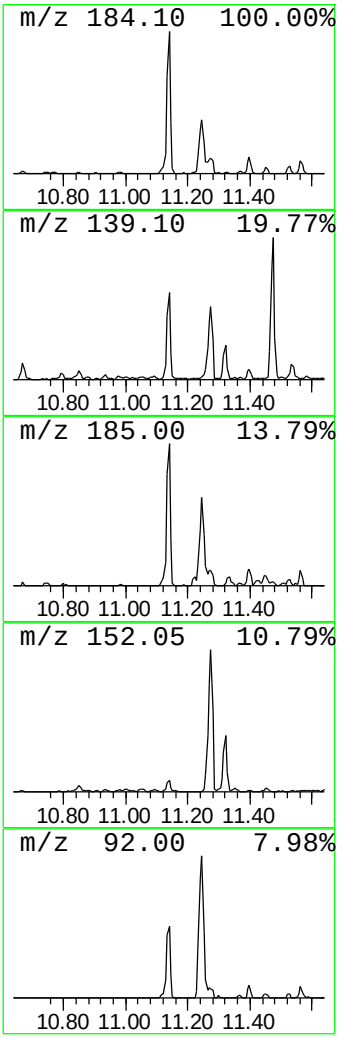
****

Peak Number 6 Dibenzothiophene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.14	8.05 ng	484620	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	97
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90





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Data File : BF102004.D
Acq On : 11 Jan 2018 2:37
Operator : SJ/JU
Sample : J1076-19 50X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WC-43-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.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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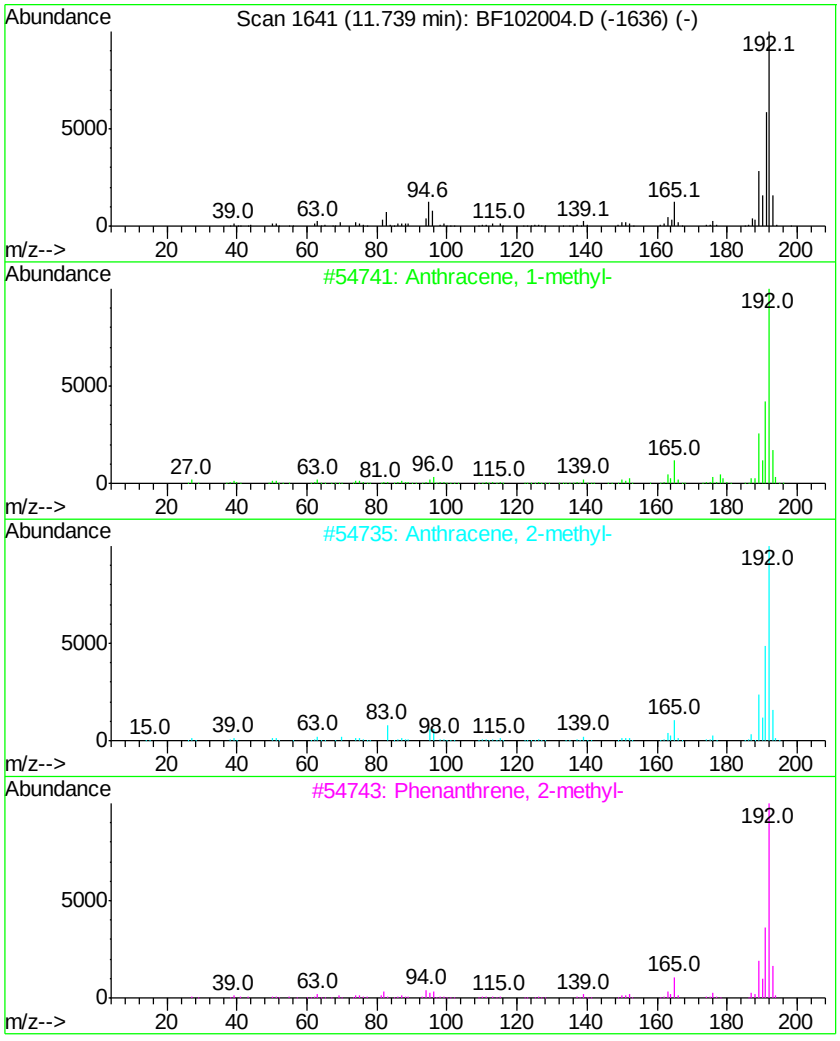
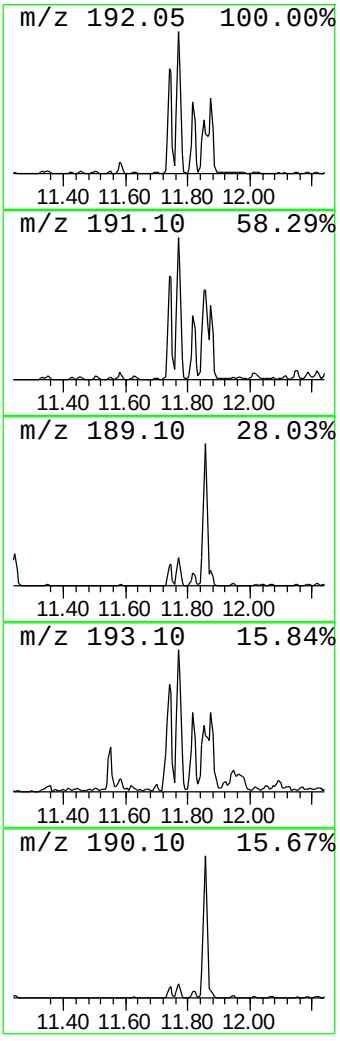
Peak Number 7 Anthracene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.74	9.43 ng	567659	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





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Sample : J1076-19 50X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WC-43-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.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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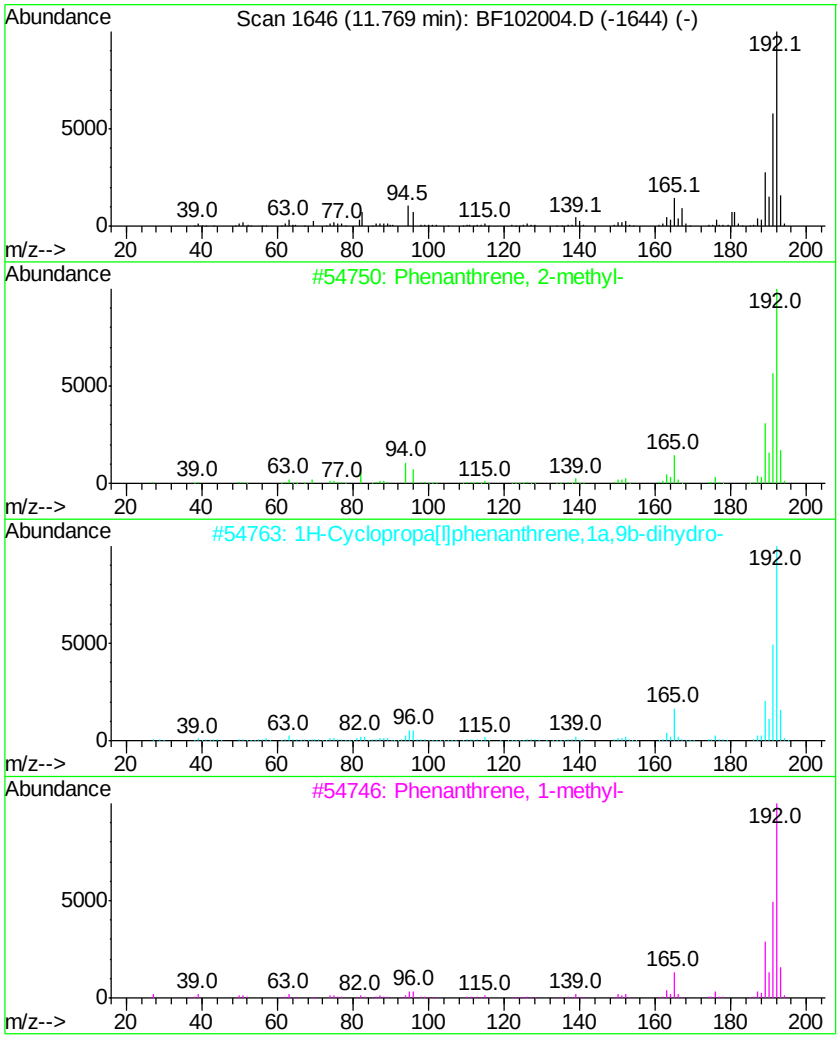
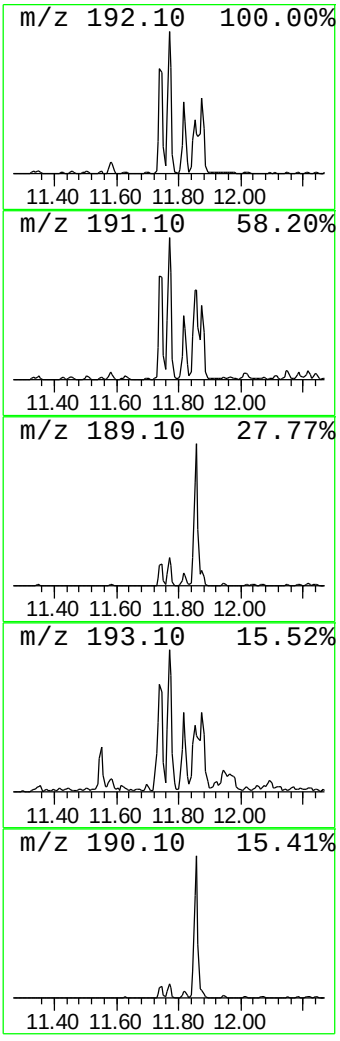
Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.77	11.64 ng	700647	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95





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Sample : J1076-19 50X
Misc :
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Instrument : BNA_F
ClientSampleId : WC-43-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.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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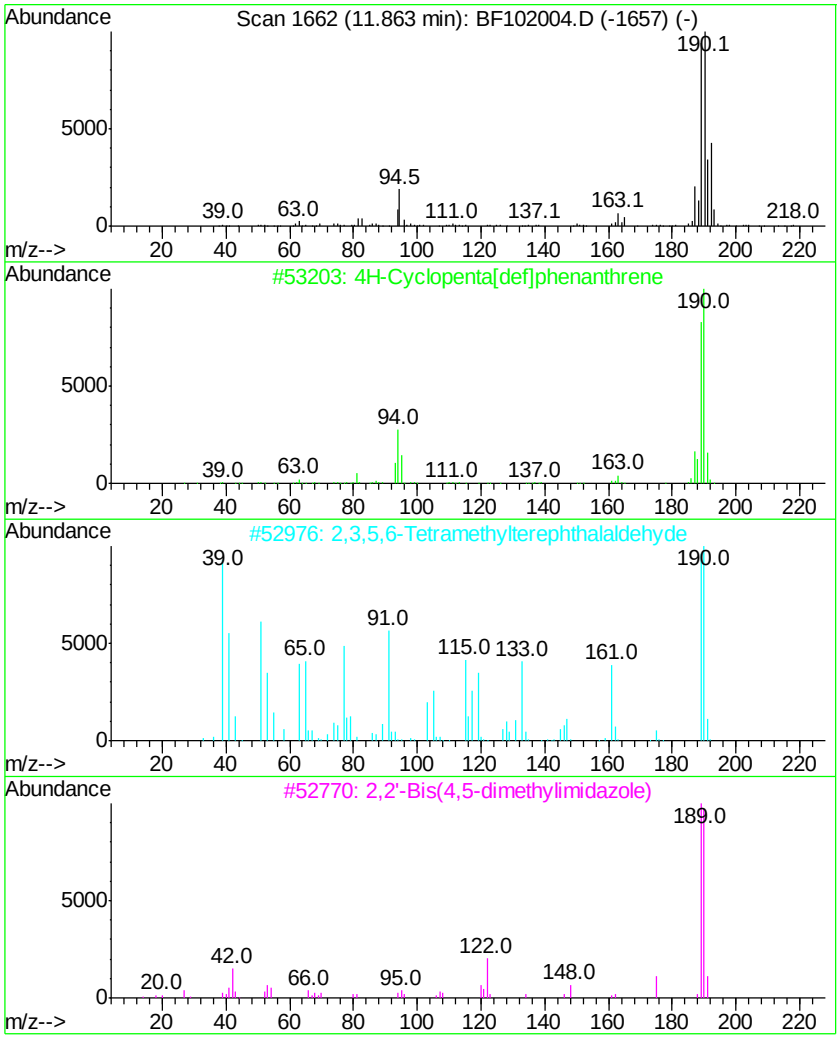
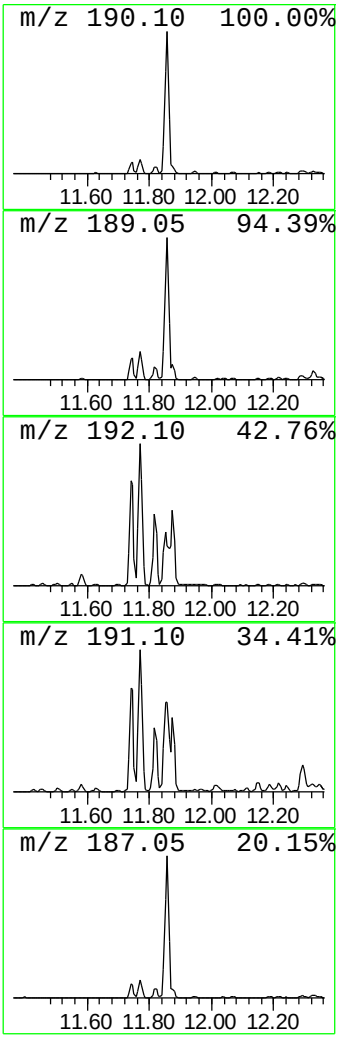
Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.86	20.75 ng	1249570	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	97
2	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
3	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	33
4	Methyl diselenide	190	C2H6Se2	007101-31-7	27
5	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	23





Library Search Compound Report

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Sample : J1076-19 50X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WC-43-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.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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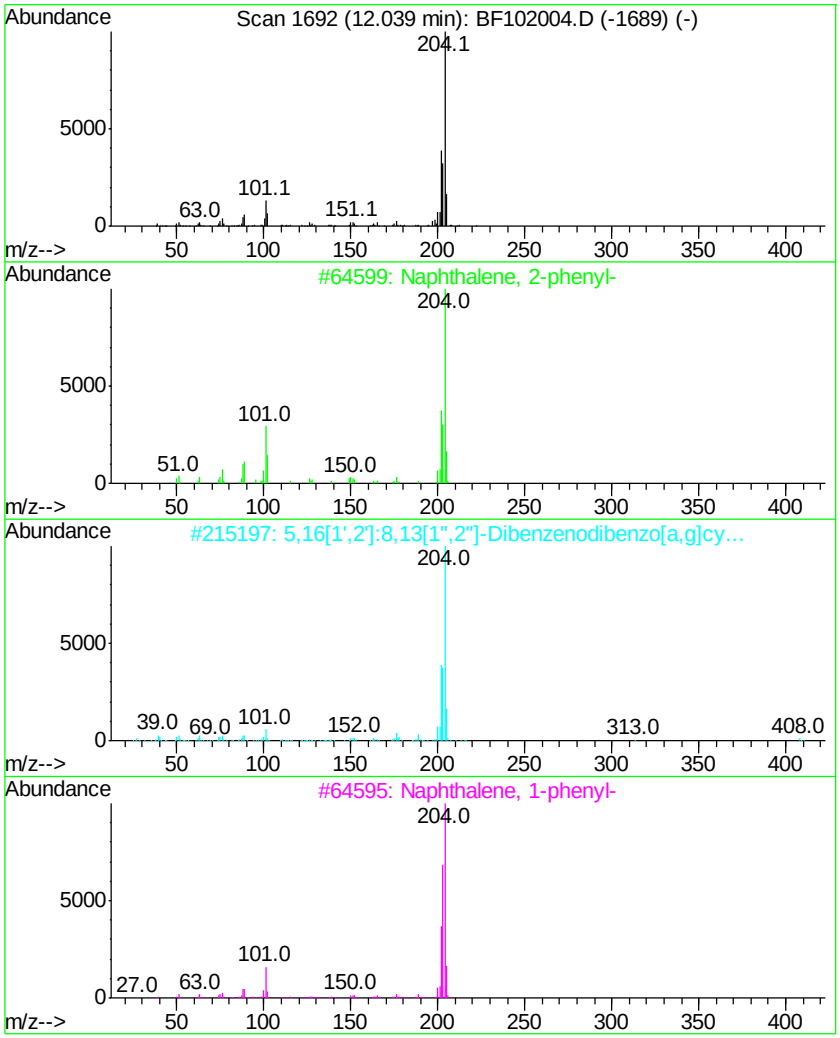
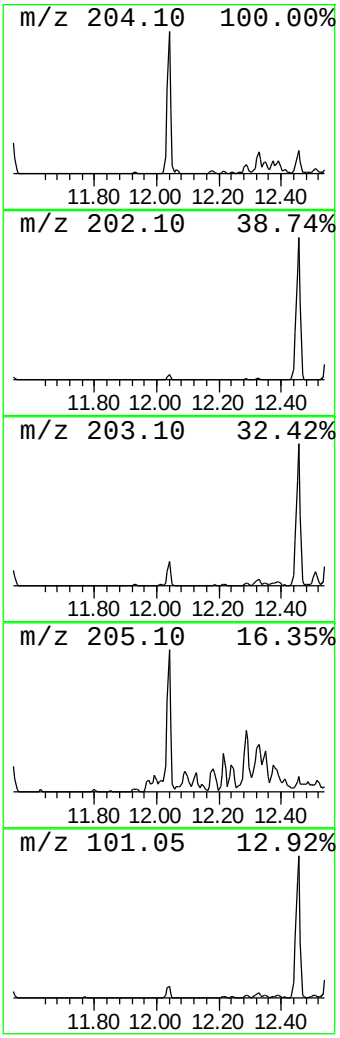
Peak Number 11 Naphthalene, 2-phenyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.04	5.42 ng	326105	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	83
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	58
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	50





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Acq On : 11 Jan 2018 2:37
Operator : SJ/JU
Sample : J1076-19 50X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WC-43-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.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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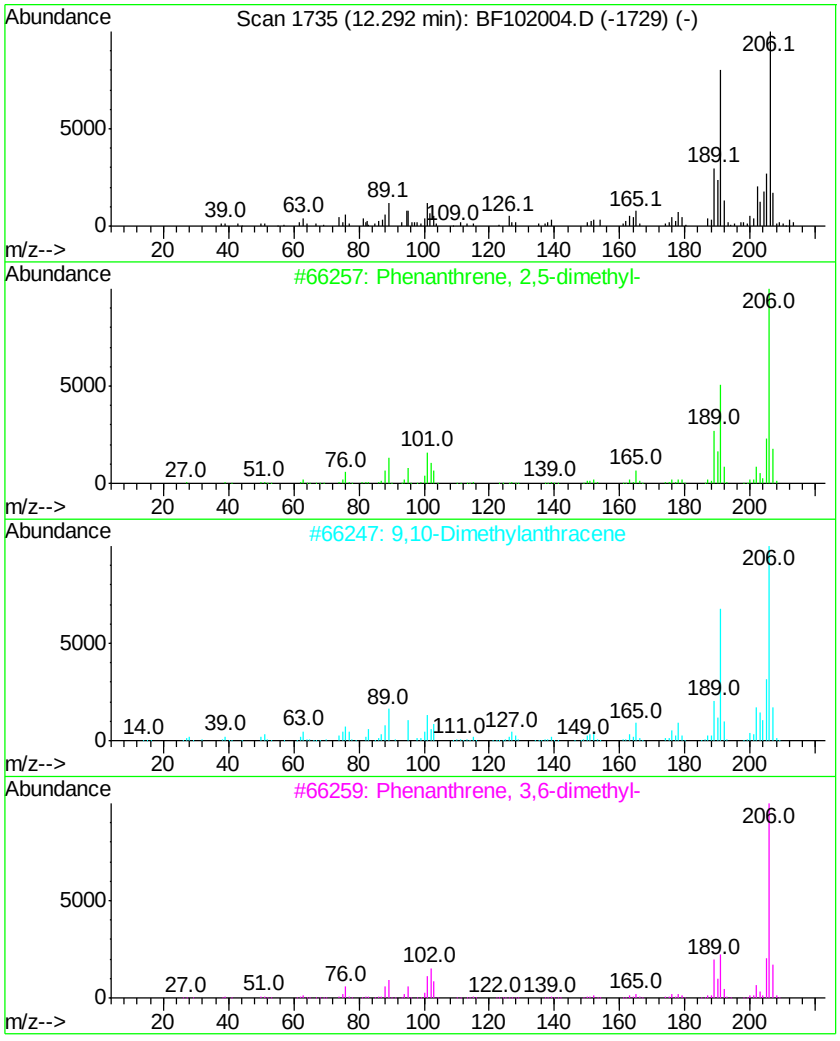
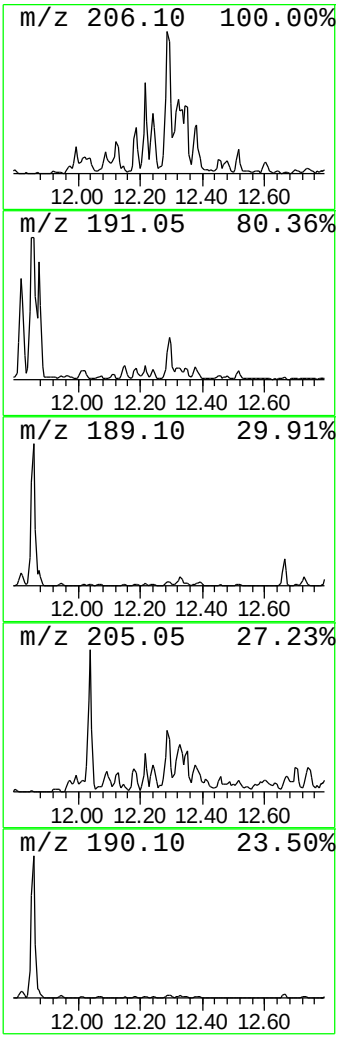
Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	3.94 ng	237307	Phenanthrene-d10	11.25

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	89
5	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	86





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Sample : J1076-19 50X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WC-43-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.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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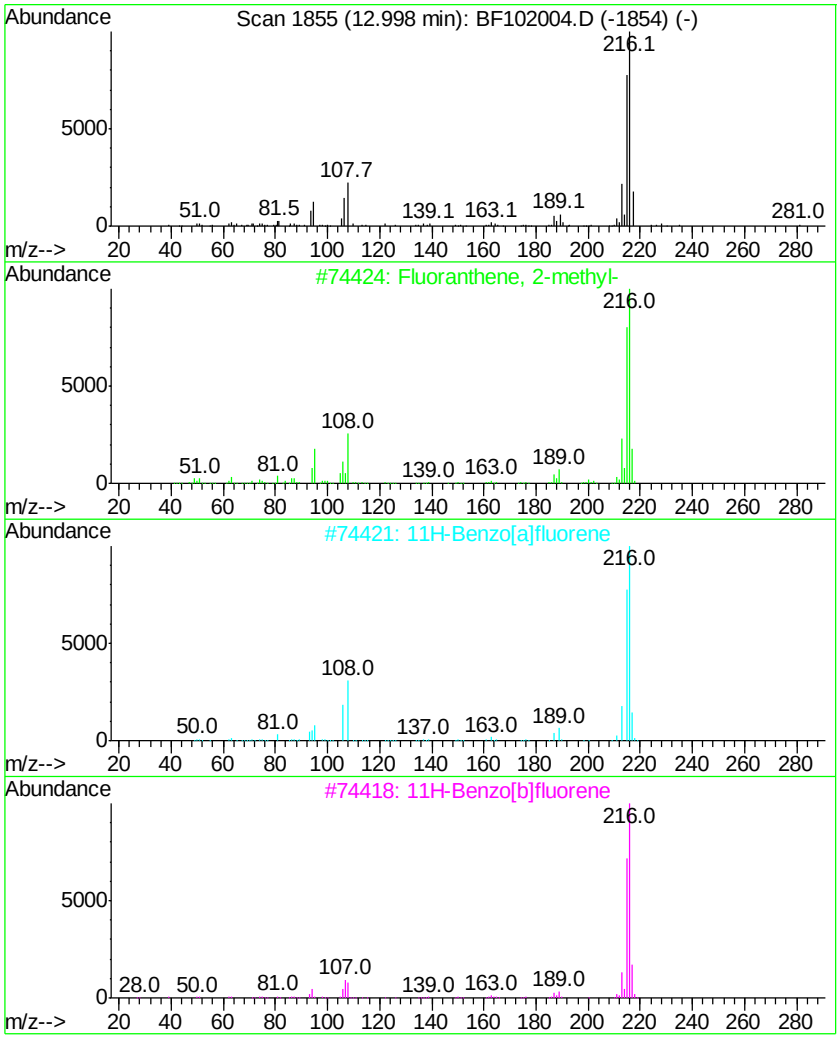
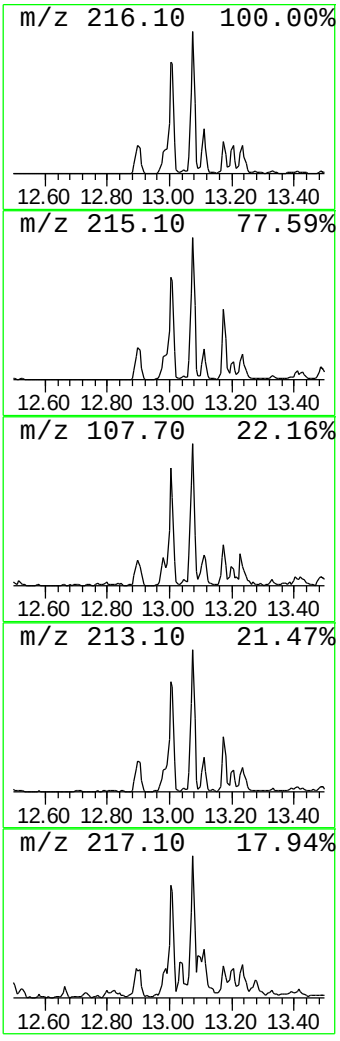
Peak Number 14 Fluoranthene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.00	4.74 ng	683220	Chrysene-d12	13.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	83
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	74





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Operator : SJ/JU
Sample : J1076-19 50X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WC-43-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.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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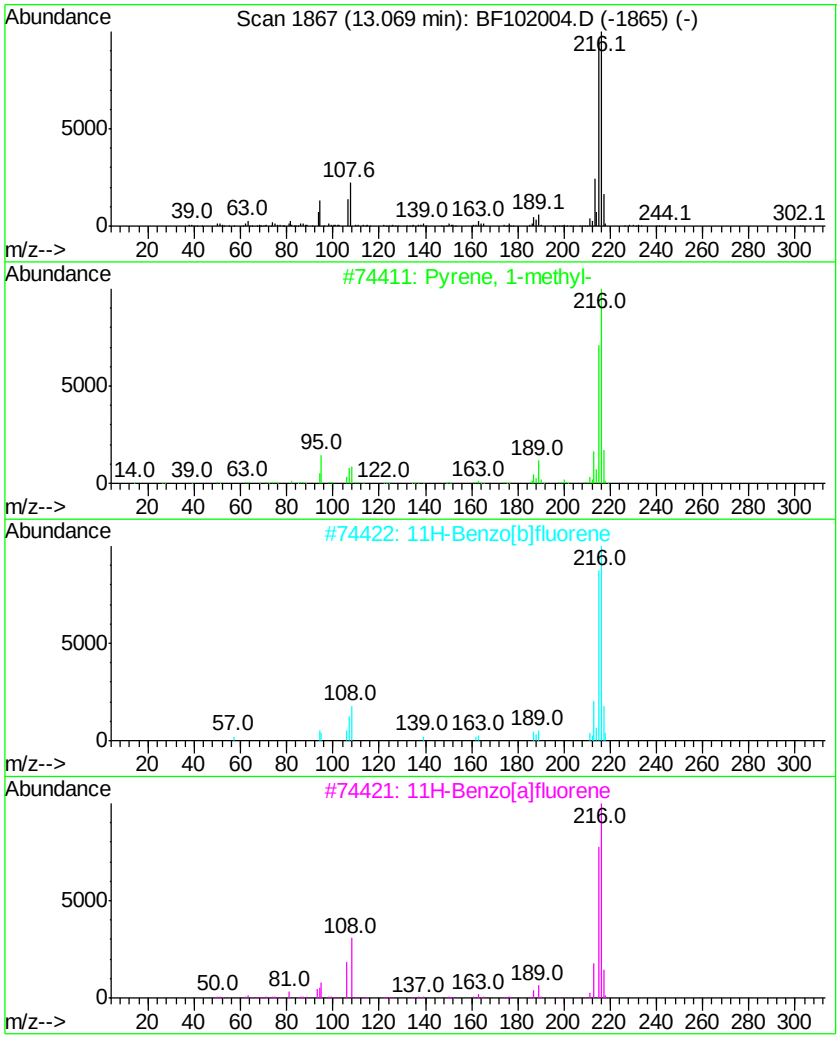
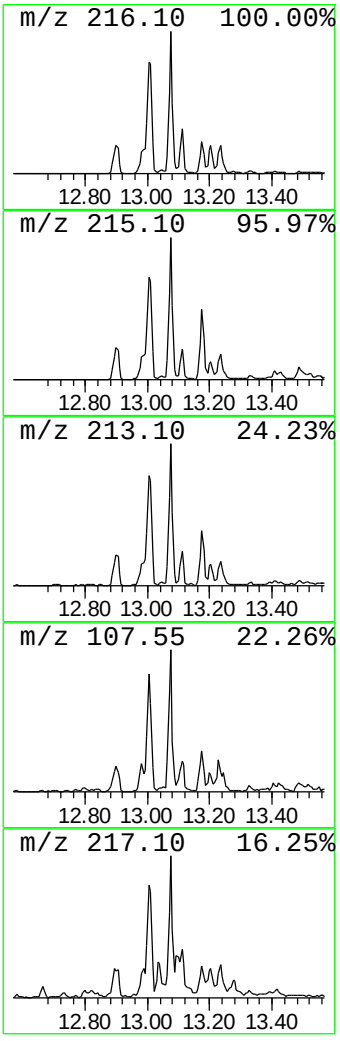
Peak Number 15 Pyrene, 1-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.07	5.12 ng	738083	Chrysene-d12	13.88

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81





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Sample : J1076-19 50X
Misc :
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Instrument : BNA_F
ClientSampleId : WC-43-01

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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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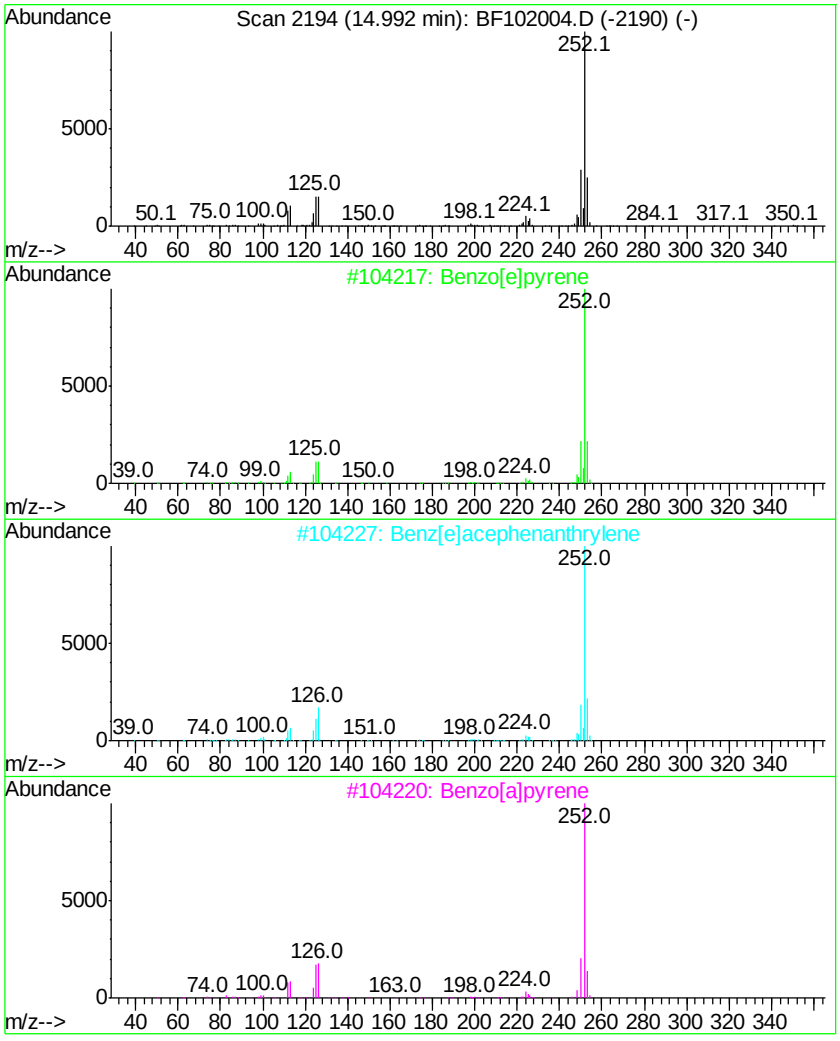
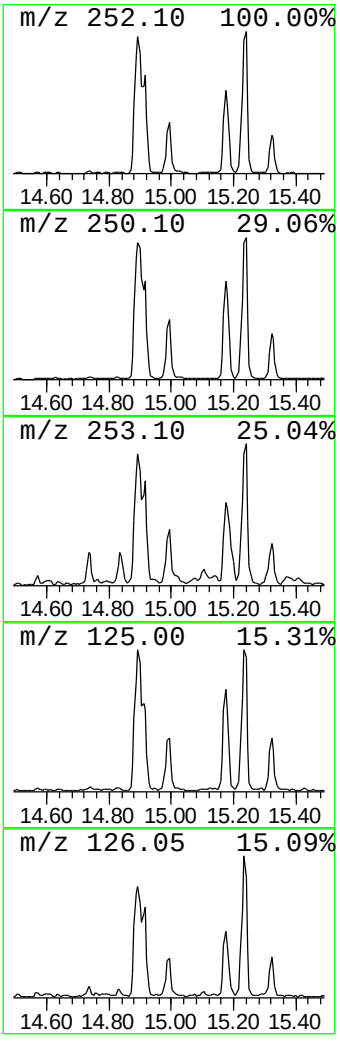
Peak Number 16 Benzo[e]pyrene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.99	7.84 ng	439610	Perylene-d12	15.30

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	97
3	Benzo[a]pyrene	252	C20H12	000050-32-8	94
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	94





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Sample : J1076-19 50X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WC-43-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.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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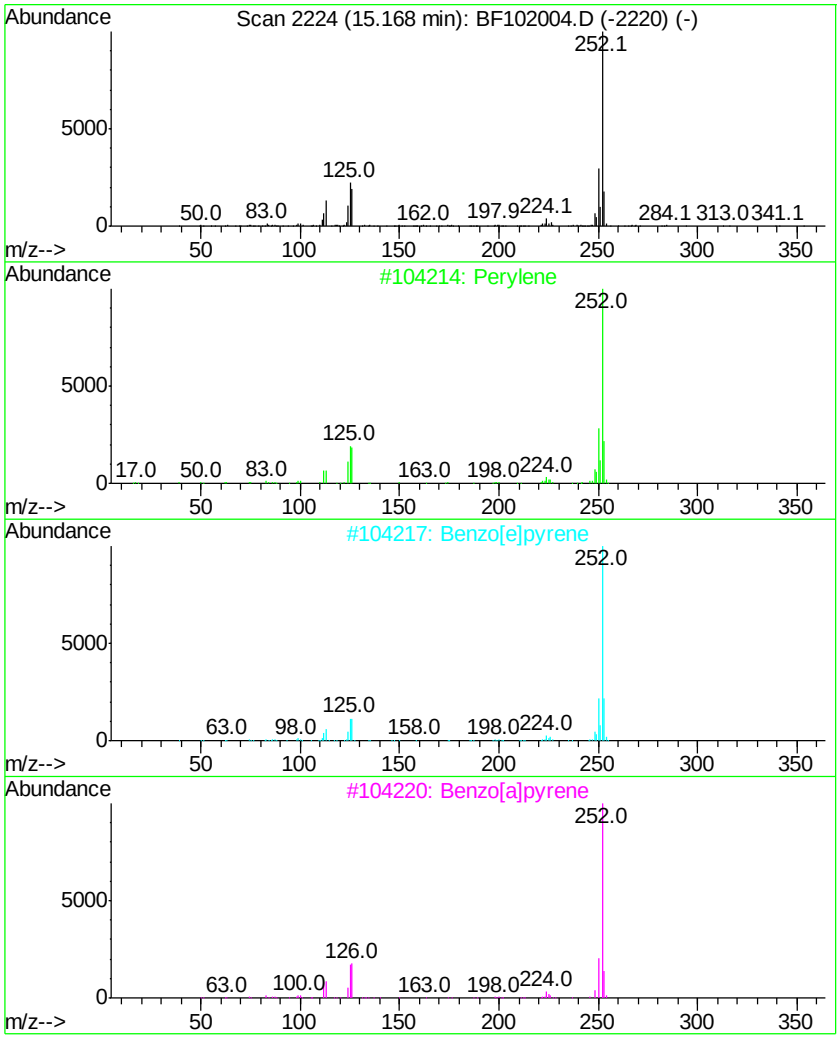
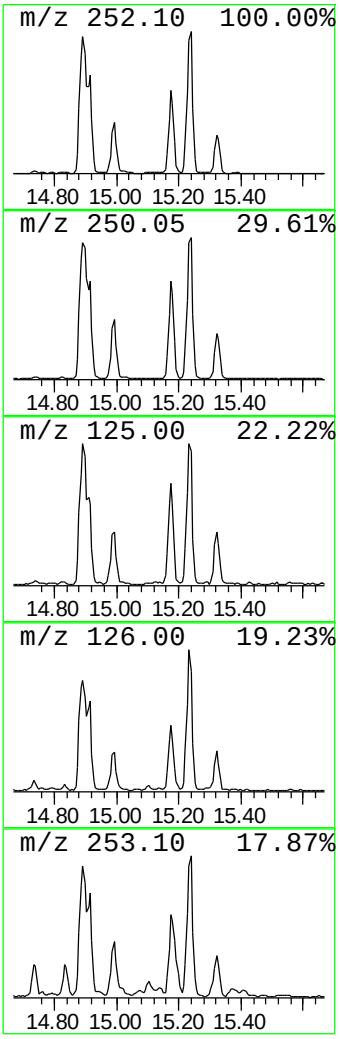
Peak Number 17 Perylene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.17	15.66 ng	877644	Perylene-d12	15.30

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	Benzo[a]pyrene	252	C20H12	000050-32-8	96
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	91





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Operator : SJ/JU
Sample : J1076-19 50X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WC-43-01

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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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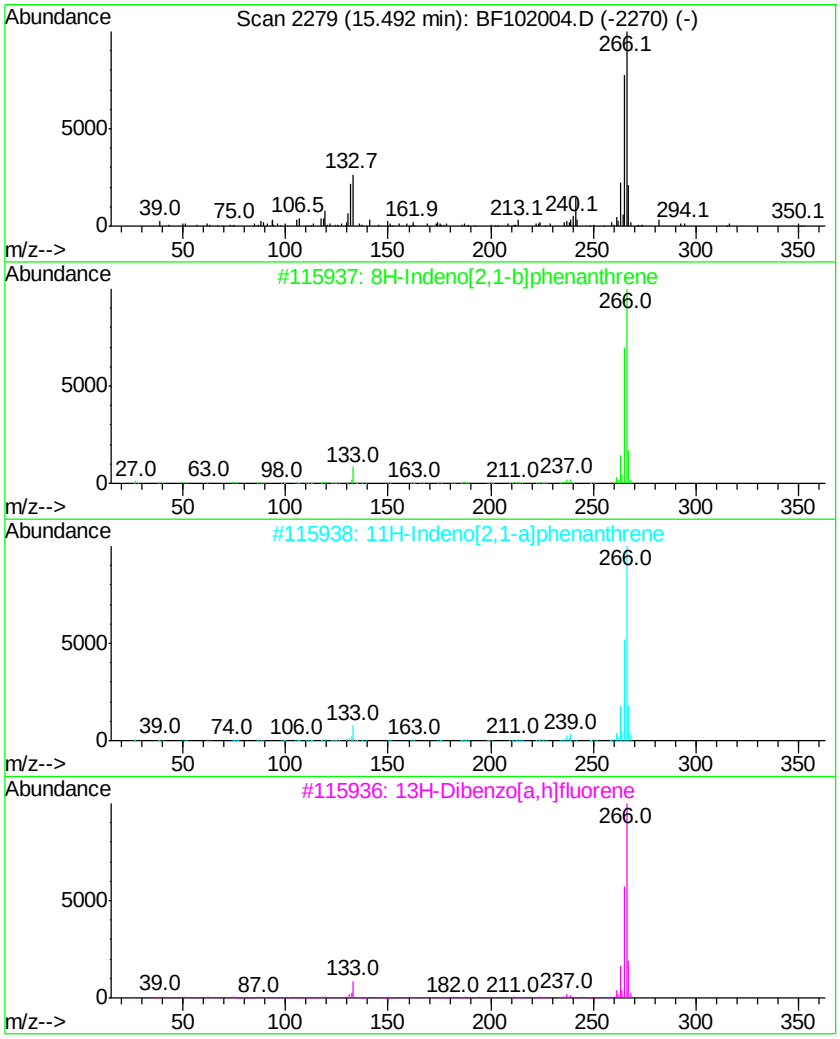
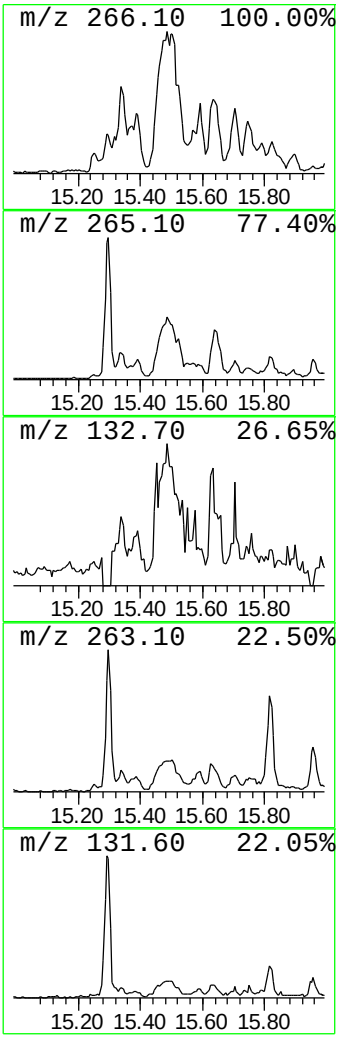
Peak Number 18 8H-Indeno[2,1-b]phenanthrene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.49	4.21 ng	235708	Perylene-d12	15.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	81
2	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	76
3	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	76
4	Thiazole, 4-phenyl-2-(4-tolylami...	266	C16H14N2S	016098-04-7	59
5	3-(3-[Trifluoromethyl]phenoxy)be...	266	C14H9F3O2	078725-46-9	50





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Sample : J1076-19 50X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WC-43-01

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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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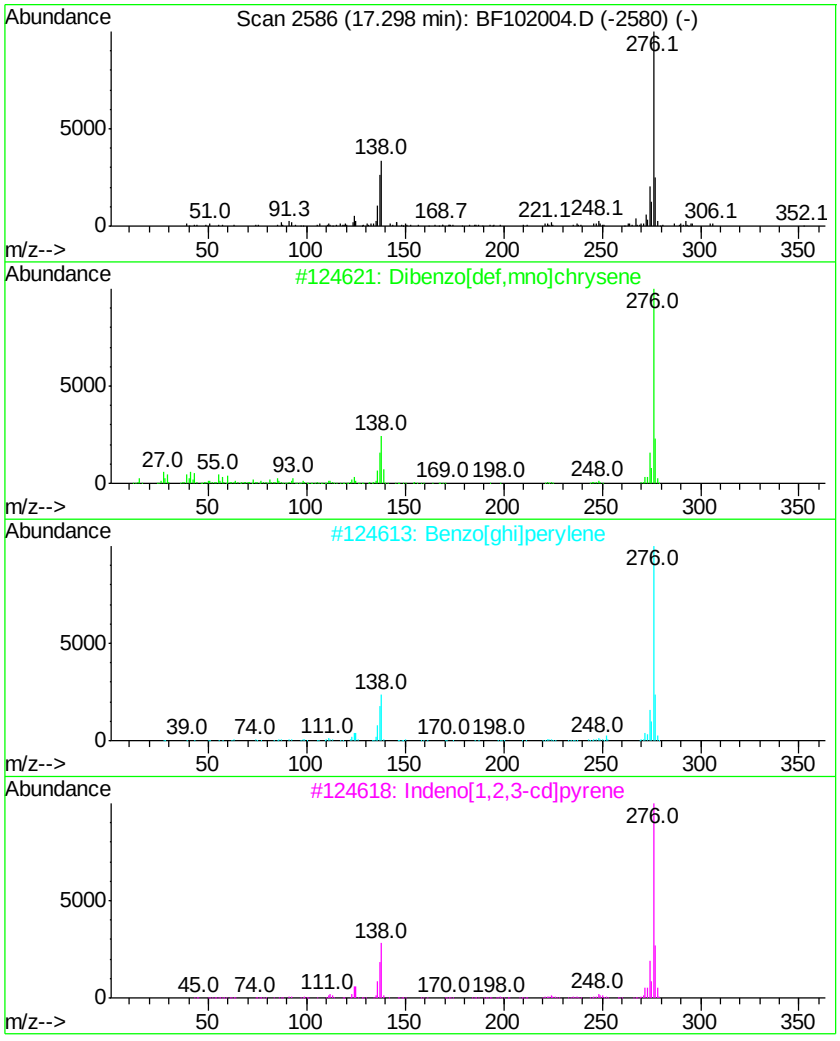
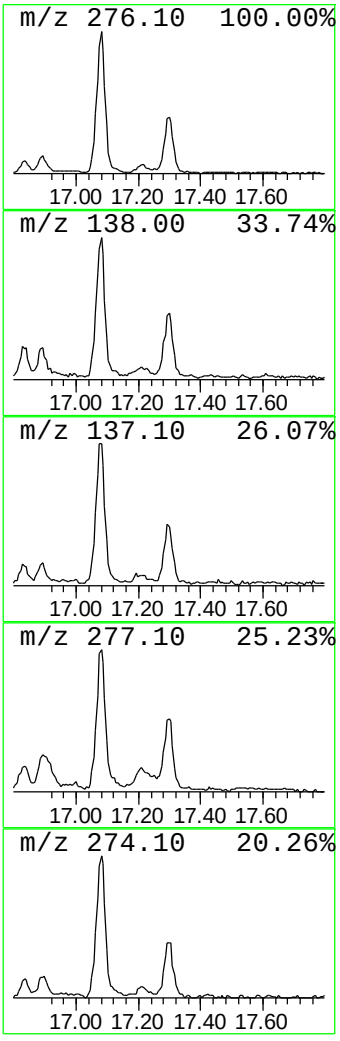
Peak Number 19 Dibenzo[def,mno]chrysene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.30	4.40 ng	246387	Perylene-d12	15.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	95
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	94
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	90
4	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	81
5	6H-Pyrido[4,3-b]carbazole, 9-met...	276	C18H16N2O	010371-86-5	49





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Operator : SJ/JU
Sample : J1076-19 50X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WC-43-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.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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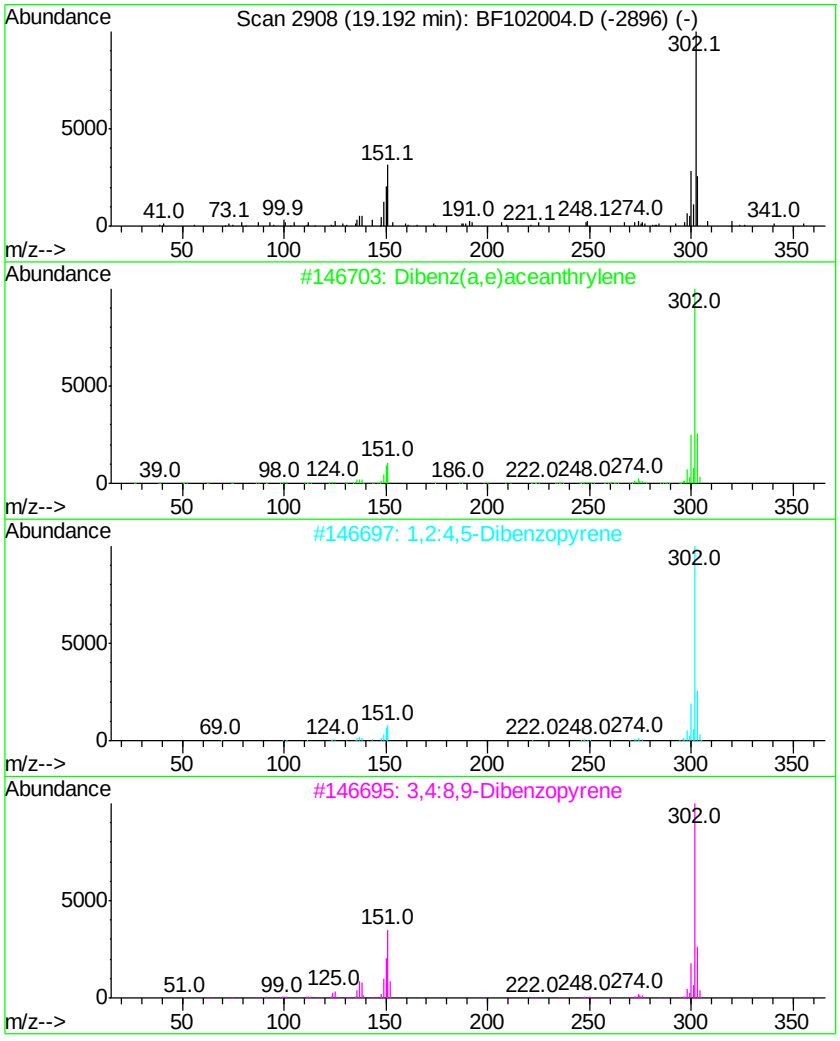
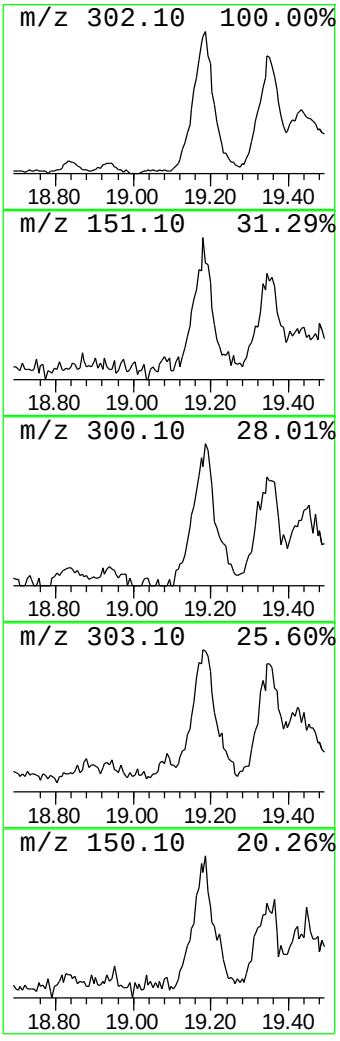
Peak Number 20 Dibenz(a,e)aceanthrylene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.19	5.63 ng	315769	Perylene-d12	15.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	90
2	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	90
3	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	90
4	Dibenzo(a,i)pyrene	302	C24H14	000189-55-9	81
5	Indeno[1,2,3-fg]naphthacene	302	C24H14	000203-11-2	74





Tentatively Identified Compound (LSC) summary

Data Path : U:\HPCHEM1\BNA_F\DATA\BF011018\
Data File : BF102004.D
Acq On : 11 Jan 2018 2:37
Operator : SJ/JU
Sample : J1076-19 50X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : WC-43-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.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, 2,6-...	9.34	6.0	ng	509641	3	9.76	1690290	20.0
Naphthalene, 2,3-...	9.42	5.8	ng	486270	3	9.76	1690290	20.0
Dibenzofuran, 4-m...	10.46	4.4	ng	368957	3	9.76	1690290	20.0
9H-Fluorene, 1-me...	10.85	7.1	ng	426826	4	11.25	1204160	20.0
Dibenzothiophene	11.14	8.1	ng	484620	4	11.25	1204160	20.0
Anthracene, 1-met...	11.74	9.4	ng	567659	4	11.25	1204160	20.0
Phenanthrene, 2-m...	11.77	11.6	ng	700647	4	11.25	1204160	20.0
4H-Cyclopenta[def...	11.86	20.8	ng	1249570	4	11.25	1204160	20.0
Naphthalene, 2-ph...	12.04	5.4	ng	326105	4	11.25	1204160	20.0
Phenanthrene, 2,5...	12.29	3.9	ng	237307	4	11.25	1204160	20.0
Fluoranthene, 2-m...	13.00	4.7	ng	683220	5	13.88	2885090	20.0
Pyrene, 1-methyl-	13.07	5.1	ng	738083	5	13.88	2885090	20.0
Benzo[e]pyrene	14.99	7.8	ng	439610	6	15.30	1121010	20.0
Perylene	15.17	15.7	ng	877644	6	15.30	1121010	20.0
8H-Indeno[2,1-b]p...	15.49	4.2	ng	235708	6	15.30	1121010	20.0
Dibenzo[def,mno]c...	17.30	4.4	ng	246387	6	15.30	1121010	20.0
Dibenz(a,e)aceant...	19.19	5.6	ng	315769	6	15.30	1121010	20.0