LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\
Data File : BF101100.D
Acq On : 4 Dec 2017 16:15
Operator : SJ/JU
Sample : I6696-02 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CS-TP102-B(1-2)

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-BF113017.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	5.463	570	574	585	rVB	212620	201148	6.53%	0.673%
2	6.475	743	746	754	rBV	239085	213378	6.93%	0.713%
3	6.616	767	770	774	rVB	285843	221527	7.19%	0.741%
4	6.845	806	809	813	rVB	319832	273205	8.87%	0.913%
5	7.004	831	836	838	rBV	174772	153166	4.97%	0.512%
6	7.410	902	905	911	rBV	158615	127847	4.15%	0.427%
7	8.133	1024	1028	1030	rBV	416779	402749	13.08%	1.347%
8	8.151	1030	1031	1034	rVB	391986	281629	9.14%	0.942%
9	8.845	1145	1149	1152	rVB	69761	58327	1.89%	0.195%
10	8.945	1161	1166	1169	rBV	334692	273431	8.88%	0.914%
11	9.204	1206	1210	1213	rBV	257045	194563	6.32%	0.651%
12	9.304	1224	1227	1232	rVB	191959	148185	4.81%	0.495%
13	9.404	1237	1244	1249	rVB	217171	250237	8.12%	0.837%
14	9.474	1251	1256	1259	rBV	177906	235595	7.65%	0.788%
15	9.545	1264	1268	1271	rVV	299061	281238	9.13%	0.940%
16	9.598	1274	1277	1282	rVV2	53339	73528	2.39%	0.246%
17	9.663	1284	1288	1293	rBV	135813	141665	4.60%	0.474%
18	9.745	1300	1302	1306	rVB	213383	177817	5.77%	0.595%
19	9.869	1317	1323	1324	rBV	122181	110711	3.59%	0.370%
20	9.886	1324	1326	1329	rVV	409982	380833	12.36%	1.273%
21	9.927	1329	1333	1336	rVV	1808636	1566036	50.84%	5.236%
22	9.986	1339	1343	1348	rBV	116579	144922	4.70%	0.485%
23	10.086	1356	1360	1364	rVB2	151173	174593	5.67%	0.584%
24	10.127	1364	1367	1371	rVB	101562	81512	2.65%	0.273%
25	10.198	1375	1379	1382	rBV2	79323	92553	3.00%	0.309%
26	10.227	1382	1384	1387	rBV	61989	58985	1.91%	0.197%
27	10.292	1391	1395	1397	rBV	62161	85031	2.76%	0.284%
28	10.339	1400	1403	1405	rBV	124745	98347	3.19%	0.329%
29	10.439	1416	1420	1425	rVB	806707	678529	22.03%	2.269%
30	10.521	1432	1434	1436	rVV2	164506	132672	4.31%	0.444%
31	10.545	1436	1438	1440	rVV	136279	119105	3.87%	0.398%
32	10.569	1440	1442	1444	rVV	134103	117370	3.81%	0.392%
33	10.592	1444	1446	1448	rVV	78416	68477	2.22%	0.229%
34	10.674	1453	1460	1464	rBV2	205641	274340	8.91%	0.917%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\
Data File : BF101100.D
Acq On : 4 Dec 2017 16:15
Operator : SJ/JU
Sample : I6696-02 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CS-TP102-B(1-2)

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-BF113017.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.798	1476	1481	1487	rVB4	92977	121352	3.94%	0.406%
36	10.980	1508	1512	1515	rBV2	142394	164916	5.35%	0.551%
37	11.010	1515	1517	1520	rVV2	79165	61753	2.00%	0.206%
38	11.068	1524	1527	1529	rVB	78913	69674	2.26%	0.233%
39	11.133	1536	1538	1541	rVV3	64321	63938	2.08%	0.214%
40	11.180	1544	1546	1549	rVV2	65070	60056	1.95%	0.201%
41	11.274	1557	1562	1567	rVB	286983	279959	9.09%	0.936%
42	11.380	1576	1580	1581	rBV	306871	305846	9.93%	1.023%
43	11.416	1581	1586	1589	rVV	2751666	3080219	100.00%	10.299%
44	11.463	1590	1594	1596	rVV	1154499	1003249	32.57%	3.354%
45	11.668	1626	1629	1632	rVB	151901	116049	3.77%	0.388%
46	11.710	1632	1636	1642	rVV2	84964	90849	2.95%	0.304%
47	11.792	1646	1650	1654	rVB	48807	60524	1.96%	0.202%
48	11.880	1661	1665	1667	rBV	398879	327369	10.63%	1.095%
49	11.910	1667	1670	1673	rVV	481965	379770	12.33%	1.270%
50	11.957	1674	1678	1681	rVV	218401	181927	5.91%	0.608%
51	11.998	1681	1685	1687	rVV	664264	754540	24.50%	2.523%
52	12.015	1687	1688	1691	rVB	268785	134847	4.38%	0.451%
53	12.174	1711	1715	1718	rVV	386217	328340	10.66%	1.098%
54	12.227	1721	1724	1729	rVB2	150342	135532	4.40%	0.453%
55	12.315	1735	1739	1743	rBV2	179342	191259	6.21%	0.639%
56	12.427	1755	1758	1761	rBV	174088	161575	5.25%	0.540%
57	12.468	1761	1765	1767	rVV2	106844	127670	4.14%	0.427%
58	12.527	1771	1775	1778	rVB2	44040	71306	2.31%	0.238%
59	12.604	1782	1788	1790	rBV	1625980	1690296	54.88%	5.652%
60	12.633	1790	1793	1796	rVV	1013362	882682	28.66%	2.951%
61	12.692	1799	1803	1806	rVV	460735	395853	12.85%	1.324%
62	12.745	1810	1812	1814	rBV	60585	58802	1.91%	0.197%
63	12.768	1814	1816	1819	rVB	78028	73956	2.40%	0.247%
64	12.833	1820	1827	1831	rBV	1769345	2154119	69.93%	7.202%
65	12.874	1831	1834	1838	rVB2	65143	81554	2.65%	0.273%
66	12.957	1841	1848	1850	rBV2	166391	201925	6.56%	0.675%
67	13.039	1857	1862	1867	rBV2	117996	177761	5.77%	0.594%
68	13.098	1869	1872	1874	rBV	137604	121822	3.95%	0.407%
69	13.127	1874	1877	1878	rVV2	110389	119541	3.88%	0.400%
70	13.151	1878	1881	1884	rVB	357882	331313	10.76%	1.108%
71	13.215	1889	1892	1895	rVV	336553	288484	9.37%	0.965%

LSC Area Percent Report

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Data File : BF101100.D
Acq On : 4 Dec 2017 16:15
Operator : SJ/JU
Sample : I6696-02 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CS-TP102-B(1-2)

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-BF113017.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.257	1895	1899	1902	rVV2	222843	222517	7.22%	0.744%
73	13.321	1906	1910	1912	rBV3	86770	110114	3.57%	0.368%
74	13.351	1912	1915	1917	rVV	142885	154357	5.01%	0.516%
75	13.380	1917	1920	1926	rVB	188359	203909	6.62%	0.682%
76	13.633	1959	1963	1966	rBV	51294	76195	2.47%	0.255%
77	13.768	1984	1986	1988	rVV	84001	74001	2.40%	0.247%
78	13.798	1988	1991	1993	rVV	178500	144690	4.70%	0.484%
79	13.821	1993	1995	1998	rVV	146726	118368	3.84%	0.396%
80	14.015	2024	2028	2032	rVV2	1019316	1375247	44.65%	4.598%
81	14.051	2032	2034	2041	rVB	735461	631741	20.51%	2.112%
82	14.127	2045	2047	2052	rBV2	107816	125488	4.07%	0.420%
83	14.168	2052	2054	2057	rVB	69445	62217	2.02%	0.208%
84	14.409	2092	2095	2098	rVV	182485	188527	6.12%	0.630%
85	14.439	2098	2100	2104	rVV	78859	73022	2.37%	0.244%
86	14.486	2104	2108	2110	rVV2	66995	95803	3.11%	0.320%
87	14.504	2110	2111	2114	rVV	96529	82825	2.69%	0.277%
88	14.533	2114	2116	2118	rVV	99065	102210	3.32%	0.342%
89	14.556	2118	2120	2123	rVV	158092	136224	4.42%	0.455%
90	14.604	2125	2128	2131	rVB2	61554	60218	1.95%	0.201%
91	15.074	2202	2208	2210	rBV	429885	674626	21.90%	2.256%
92	15.174	2222	2225	2232	rVB	143825	168122	5.46%	0.562%
93	15.374	2255	2259	2265	rVB	302328	393211	12.77%	1.315%
94	15.445	2265	2271	2274	rBV	559957	690379	22.41%	2.308%
95	15.498	2276	2280	2283	rVV	208105	272411	8.84%	0.911%
96	15.533	2283	2286	2292	rVB2	105172	143399	4.66%	0.479%
97	16.062	2373	2376	2381	rVB2	58497	85186	2.77%	0.285%
98	16.986	2526	2533	2540	rVB	163110	316421	10.27%	1.058%
99	17.433	2603	2609	2619	rVB	118719	245429	7.97%	0.821%
100	17.674	2644	2650	2656	rBV	60676	137579	4.47%	0.460%

Sum of corrected areas: 29908314

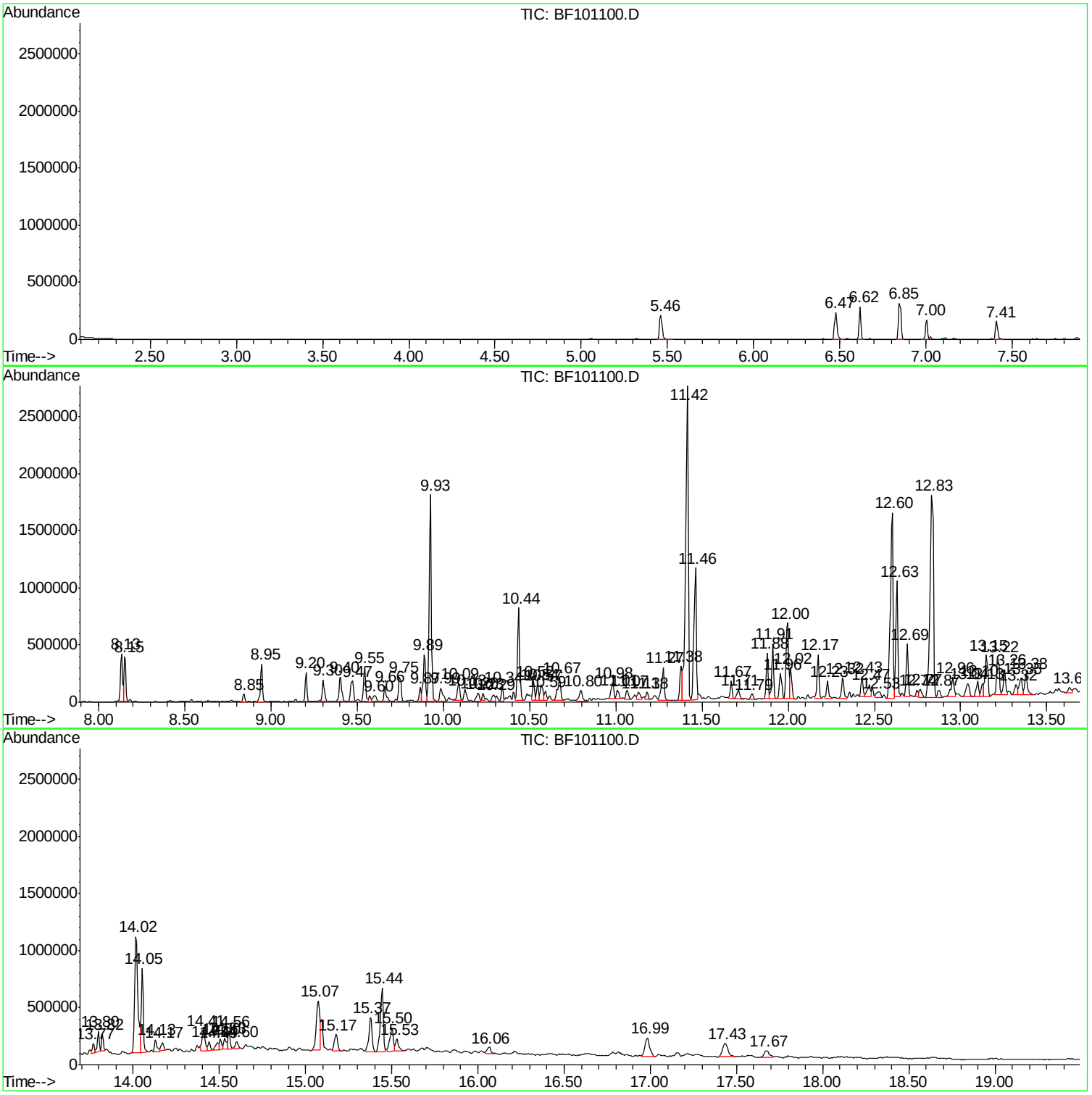
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\
Data File : BF101100.D
Acq On : 4 Dec 2017 16:15
Operator : SJ/JU
Sample : I6696-02 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CS-TP102-B(1-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\
Data File : BF101100.D
Acq On : 4 Dec 2017 16:15
Operator : SJ/JU
Sample : I6696-02 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CS-TP102-B(1-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

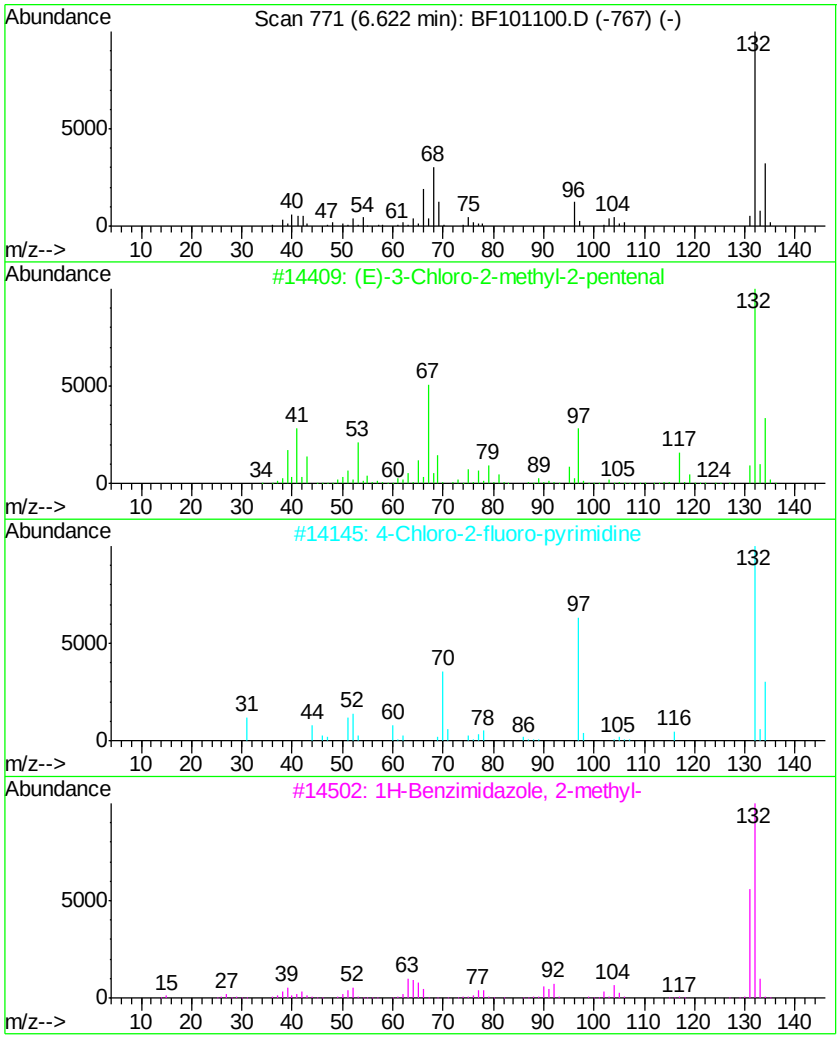
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

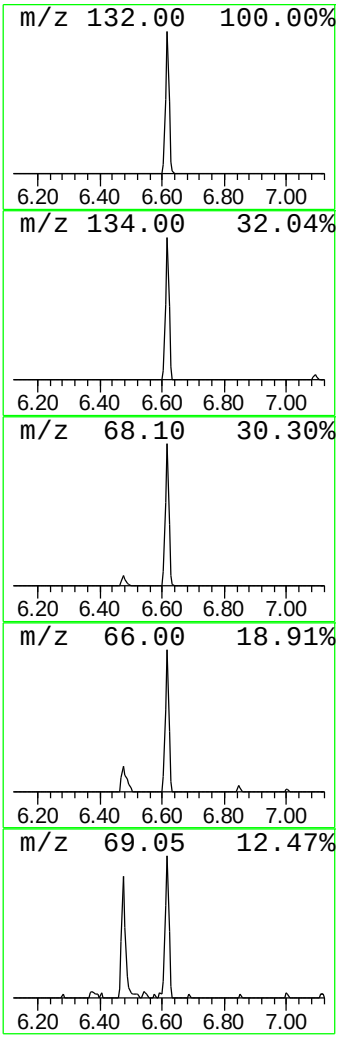
****

Peak Number 1 unknown6.62 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.62	16.22 ng	221527	1,4-Dichlorobenzene-d4	6.85

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
2	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9
3	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	9
4	Imidazole, 4,5-dicyano-1-methyl-	132	C6H4N4	019485-35-9	9
5	1,3,5-Trifluorobenzene	132	C6H3F3	000372-38-3	9





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\
Data File : BF101100.D
Acq On : 4 Dec 2017 16:15
Operator : SJ/JU
Sample : I6696-02 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CS-TP102-B(1-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

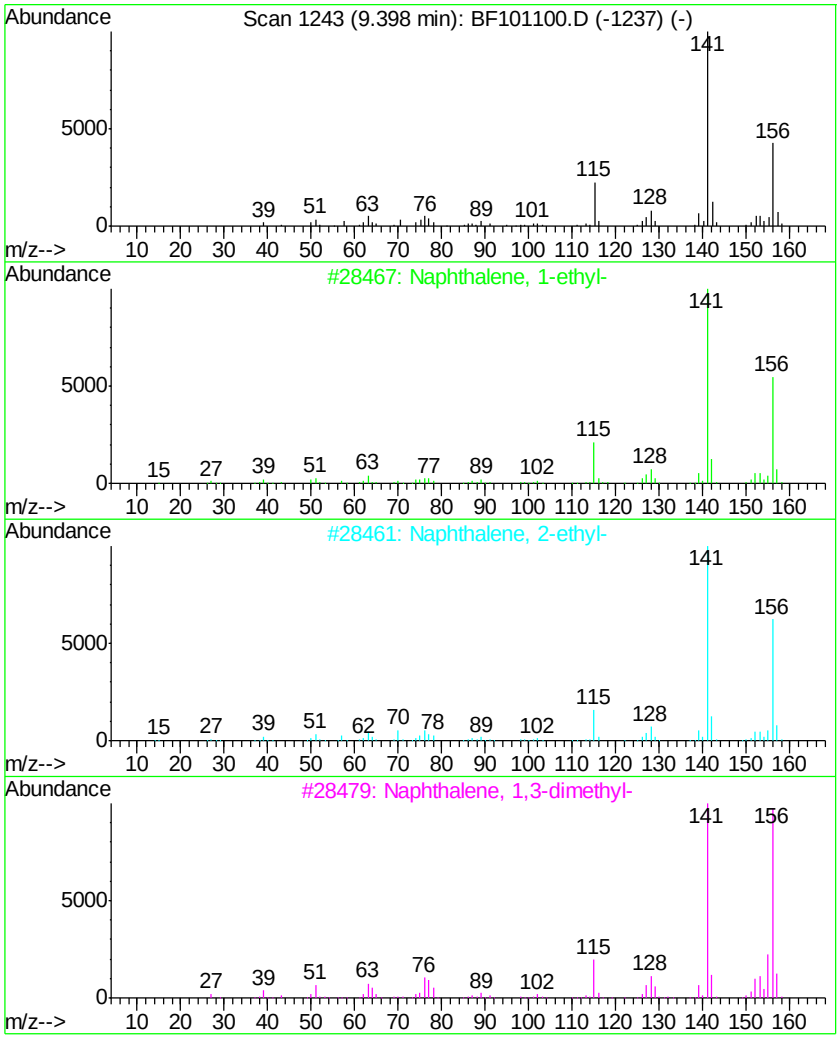
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

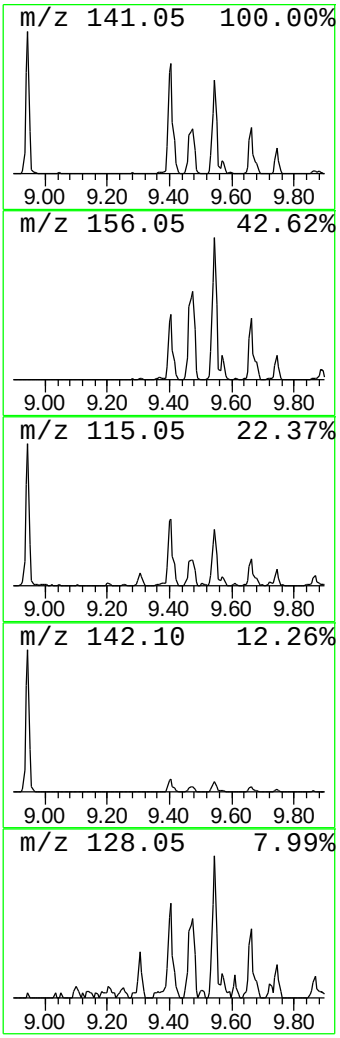
****

Peak Number 4 Naphthalene, 1-ethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.40	13.14 ng	250237	Acenaphthene-d10	9.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-ethyl-	156	C12H12	001127-76-0	96
2	Naphthalene, 2-ethyl-	156	C12H12	000939-27-5	95
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	78
4	2-Thiophenecarboxylic acid, 5-et...	156	C7H8O2S	023229-72-3	72
5	3',4'-Difluoroacetophenone	156	C8H6F2O	000369-33-5	59





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\
Data File : BF101100.D
Acq On : 4 Dec 2017 16:15
Operator : SJ/JU
Sample : I6696-02 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CS-TP102-B(1-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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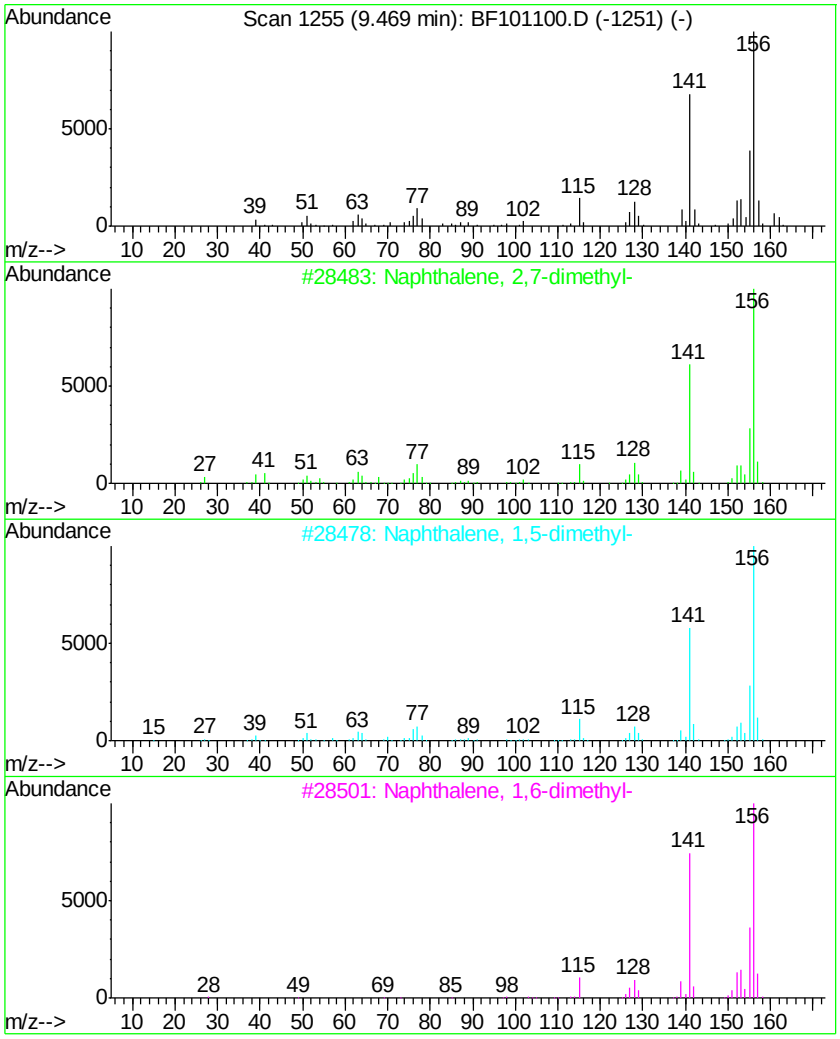
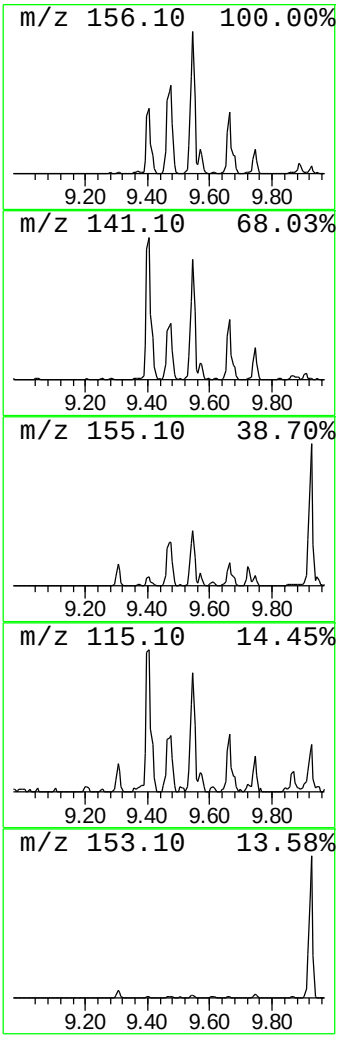
Peak Number 5 Naphthalene, 2,7-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.47	12.37 ng	235595	Acenaphthene-d10	9.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
2	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
4	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	96
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\
Data File : BF101100.D
Acq On : 4 Dec 2017 16:15
Operator : SJ/JU
Sample : I6696-02 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CS-TP102-B(1-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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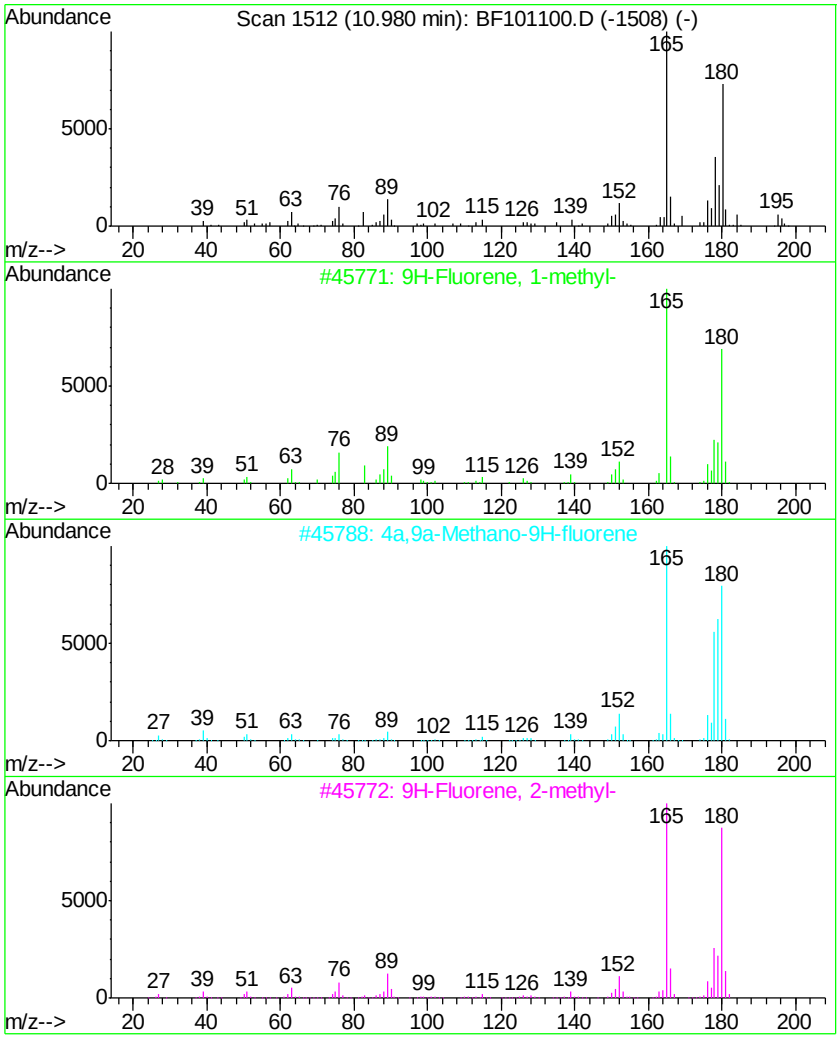
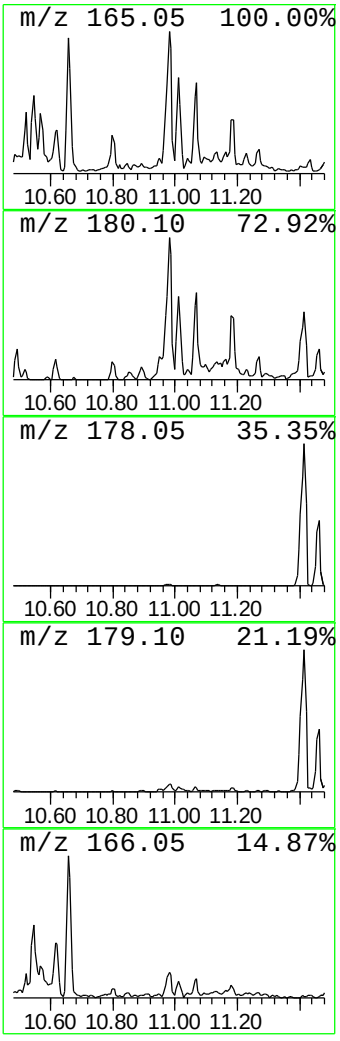
Peak Number 7 9H-Fluorene, 1-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.98	10.78 ng	164916	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	95
2	4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	92
3	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	90
4	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	86
5	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	76





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\
Data File : BF101100.D
Acq On : 4 Dec 2017 16:15
Operator : SJ/JU
Sample : I6696-02 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CS-TP102-B(1-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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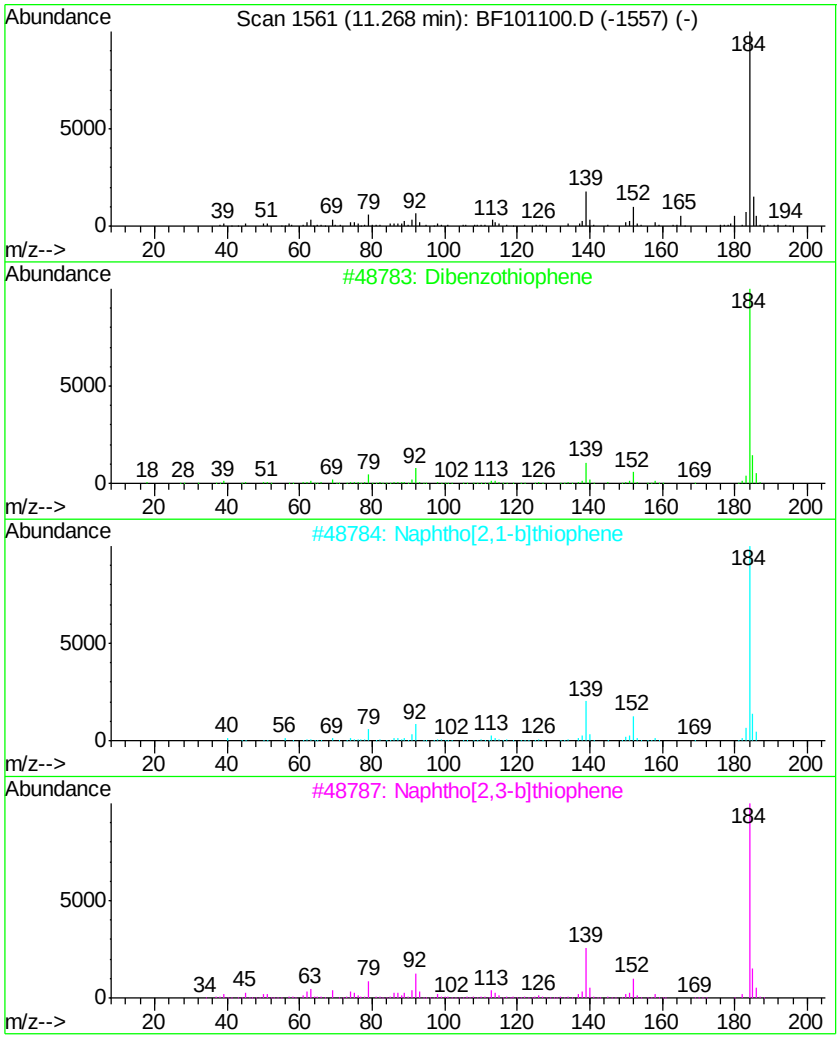
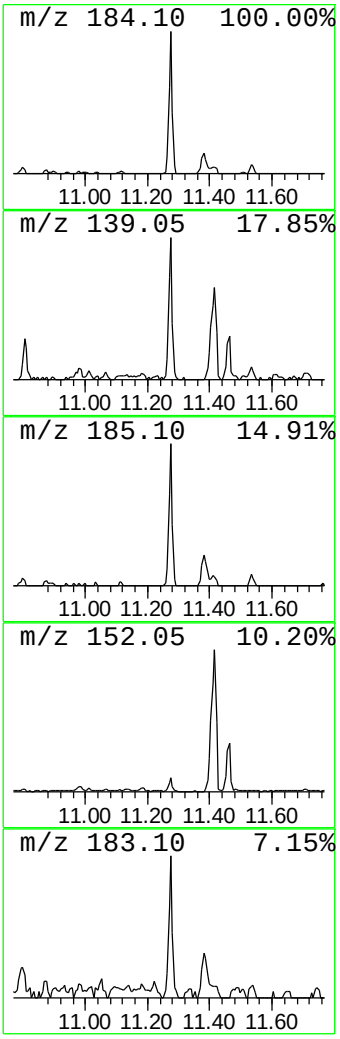
Peak Number 8 Dibenzothiophene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.27	18.31 ng	279959	Phenanthrene-d10	11.38

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	96
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	87





Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\
Data File : BF101100.D
Acq On : 4 Dec 2017 16:15
Operator : SJ/JU
Sample : I6696-02 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CS-TP102-B(1-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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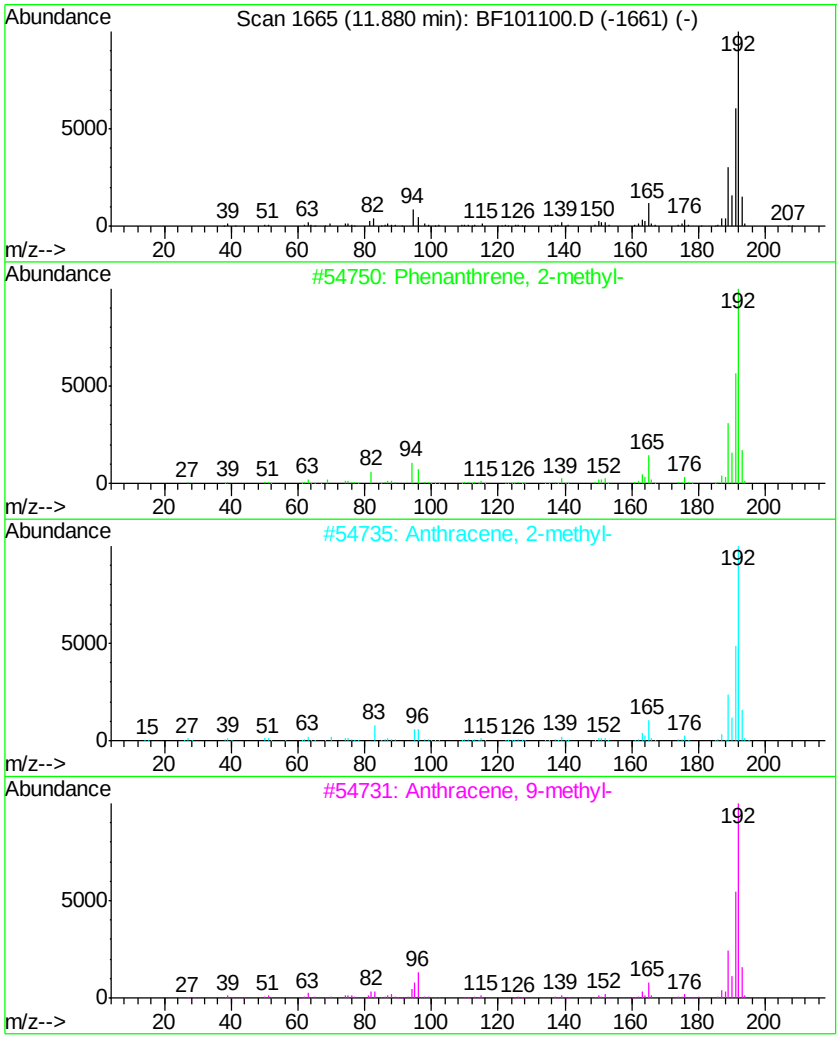
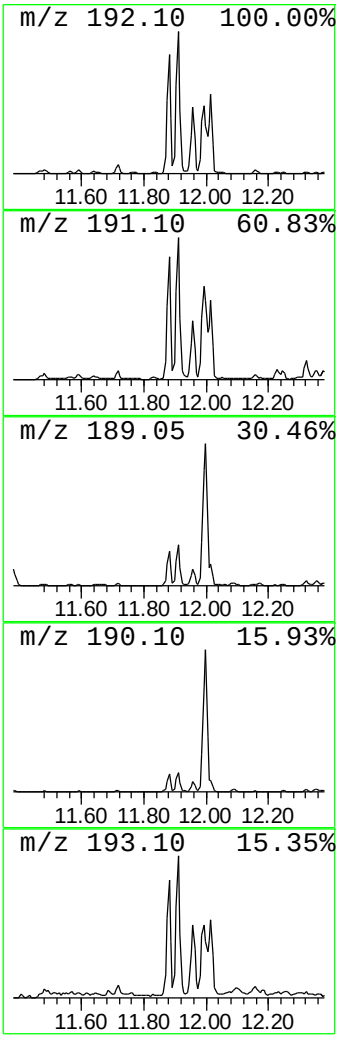
Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.88	21.41 ng	327369	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\
Data File : BF101100.D
Acq On : 4 Dec 2017 16:15
Operator : SJ/JU
Sample : I6696-02 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CS-TP102-B(1-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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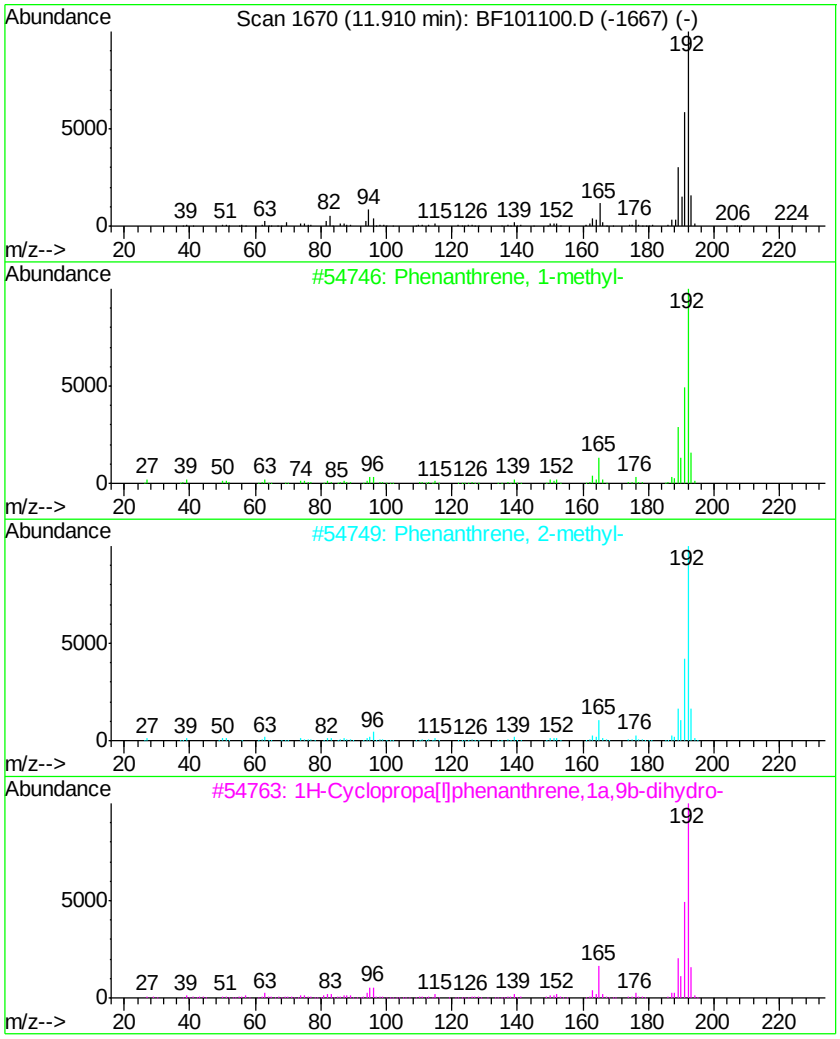
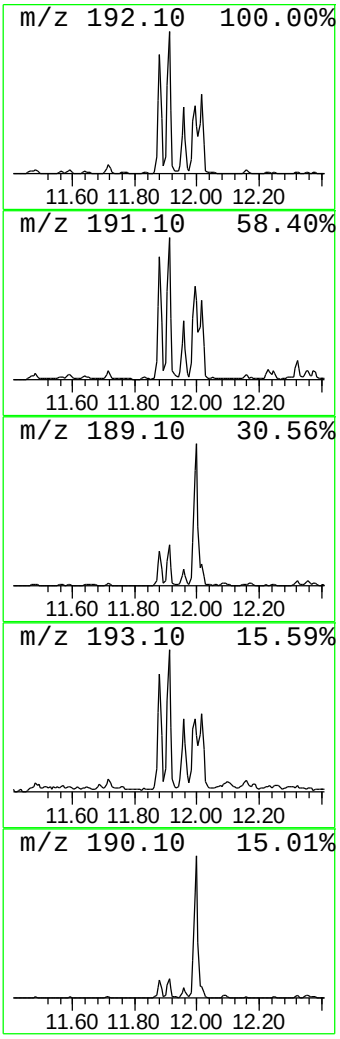
Peak Number 10 Phenanthrene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.91	24.83 ng	379770	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95





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Sample : I6696-02 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CS-TP102-B(1-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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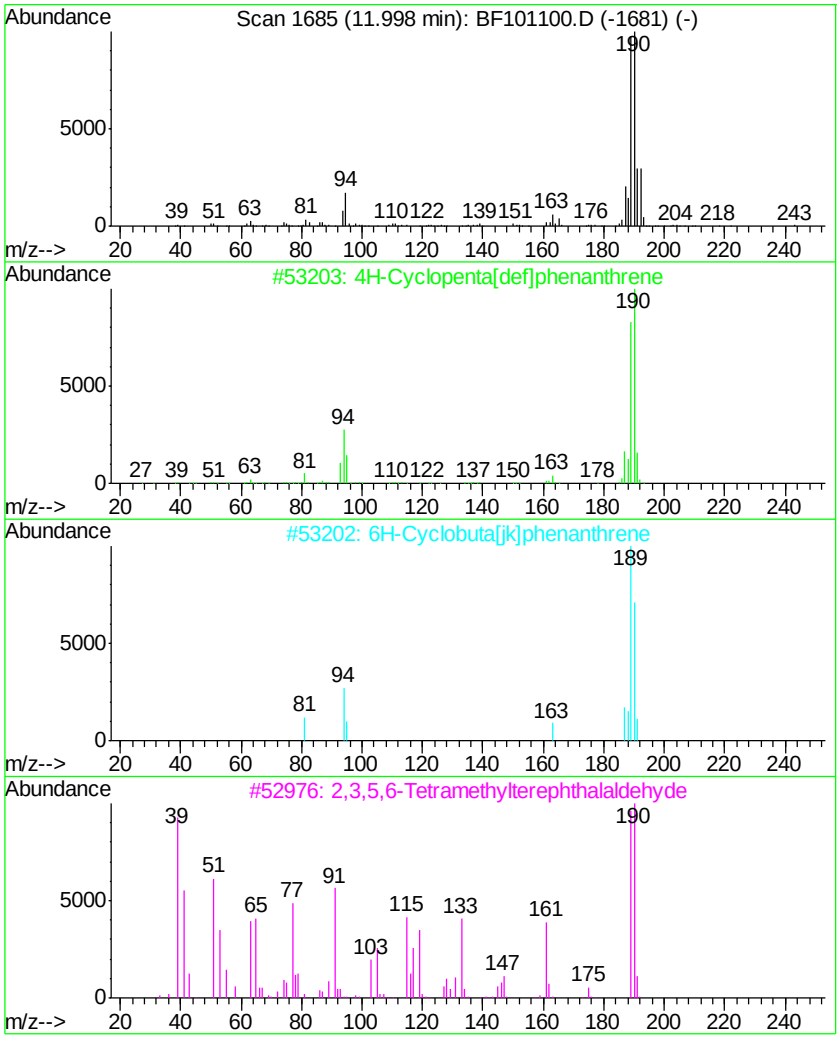
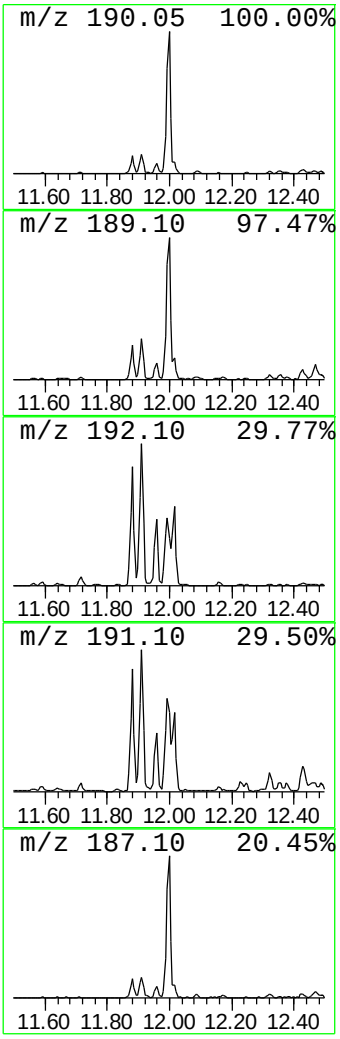
Peak Number 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	49.34 ng	754540	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	50
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
5	2,6-Dichlorobenzaldoxime	189	C7H5Cl2NO	025185-95-9	30





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Acq On : 4 Dec 2017 16:15
Operator : SJ/JU
Sample : I6696-02 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CS-TP102-B(1-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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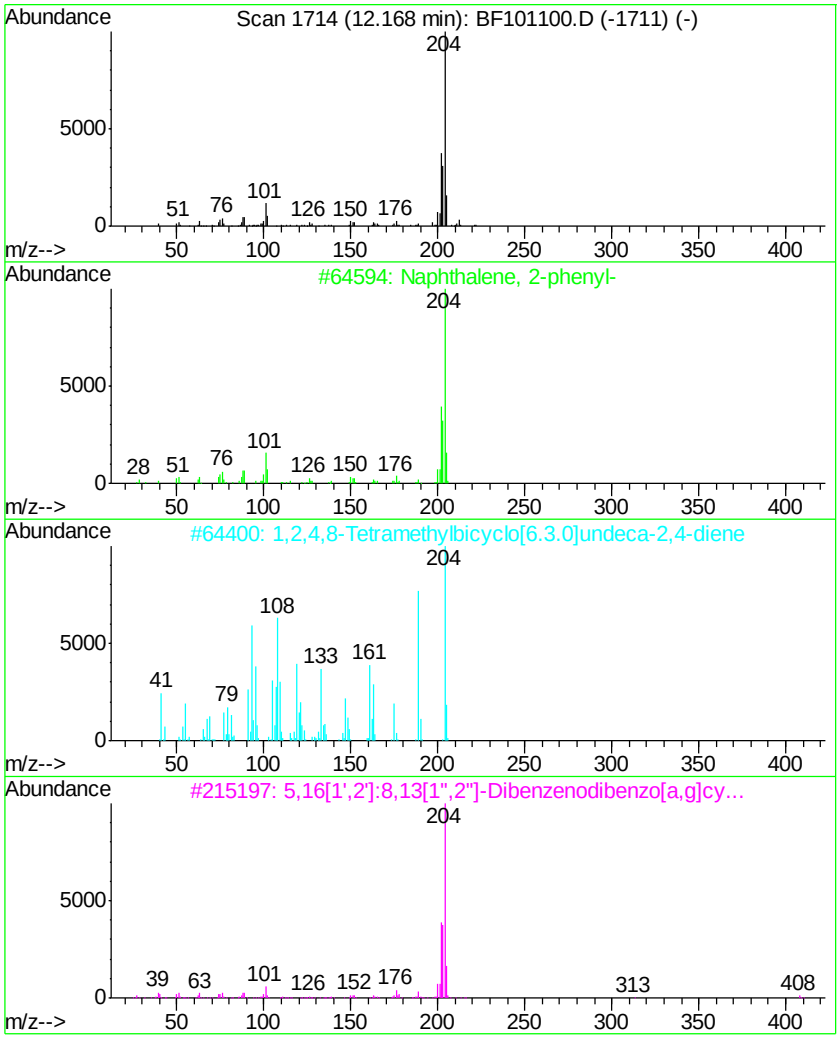
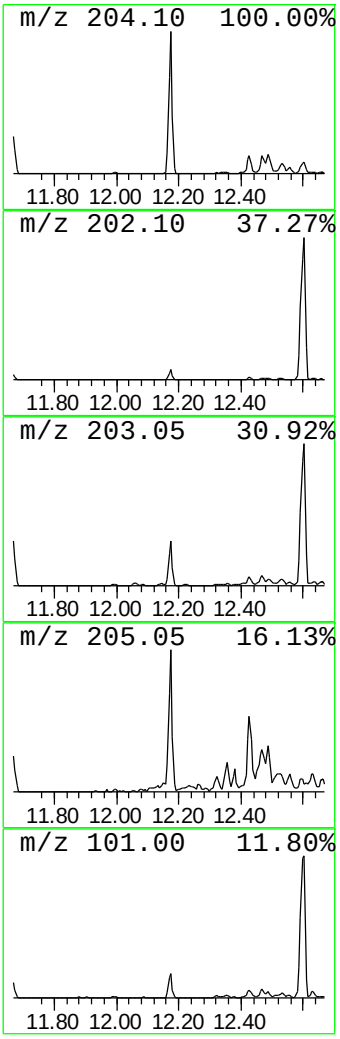
Peak Number 13 Naphthalene, 2-phenyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.17	21.47 ng	328340	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	80
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	78
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	49
5	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	49





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Acq On : 4 Dec 2017 16:15
Operator : SJ/JU
Sample : I6696-02 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CS-TP102-B(1-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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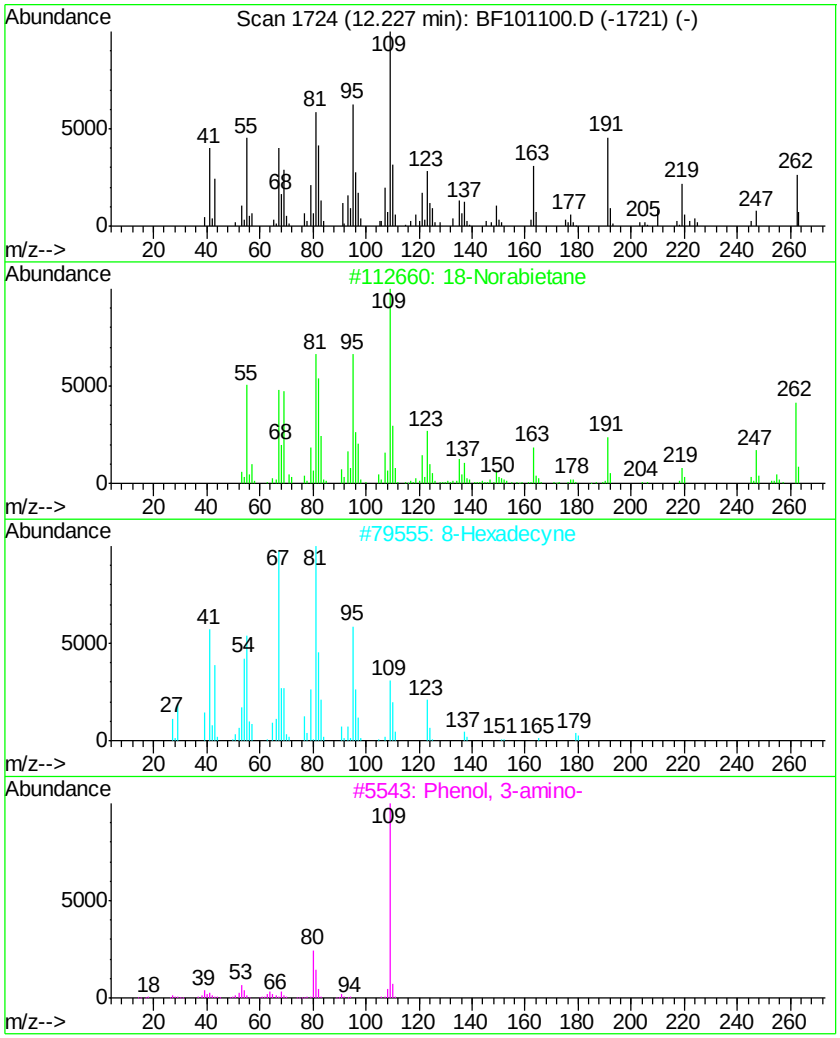
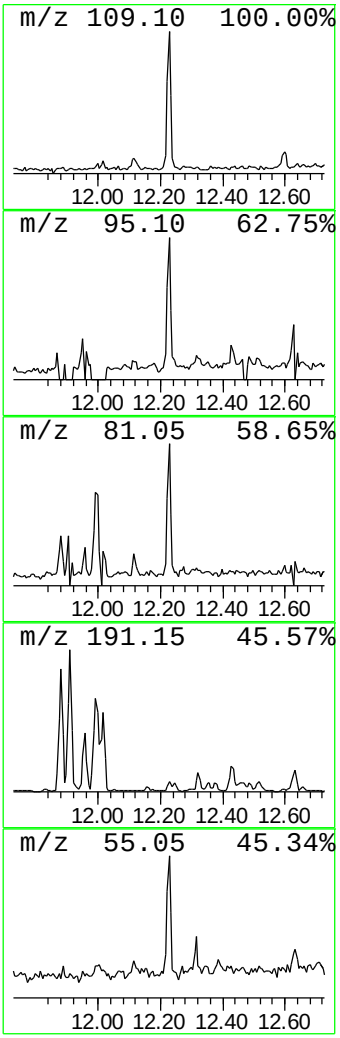
Peak Number 14 18-Norabietane Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.23	8.86 ng	135532	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	18-Norabietane	262	C19H34	1000293-16-6	94
2	8-Hexadecyne	222	C16H30	019781-86-3	22
3	Phenol, 3-amino-	109	C6H7NO	000591-27-5	14
4	Ethanone, 1-(1,4-dimethyl-3-cycl...	152	C10H16O	043219-68-7	14
5	2-Furoic acid, 2-methyloct-5-yn-...	234	C14H18O3	1000299-23-7	14





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Acq On : 4 Dec 2017 16:15
Operator : SJ/JU
Sample : I6696-02 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CS-TP102-B(1-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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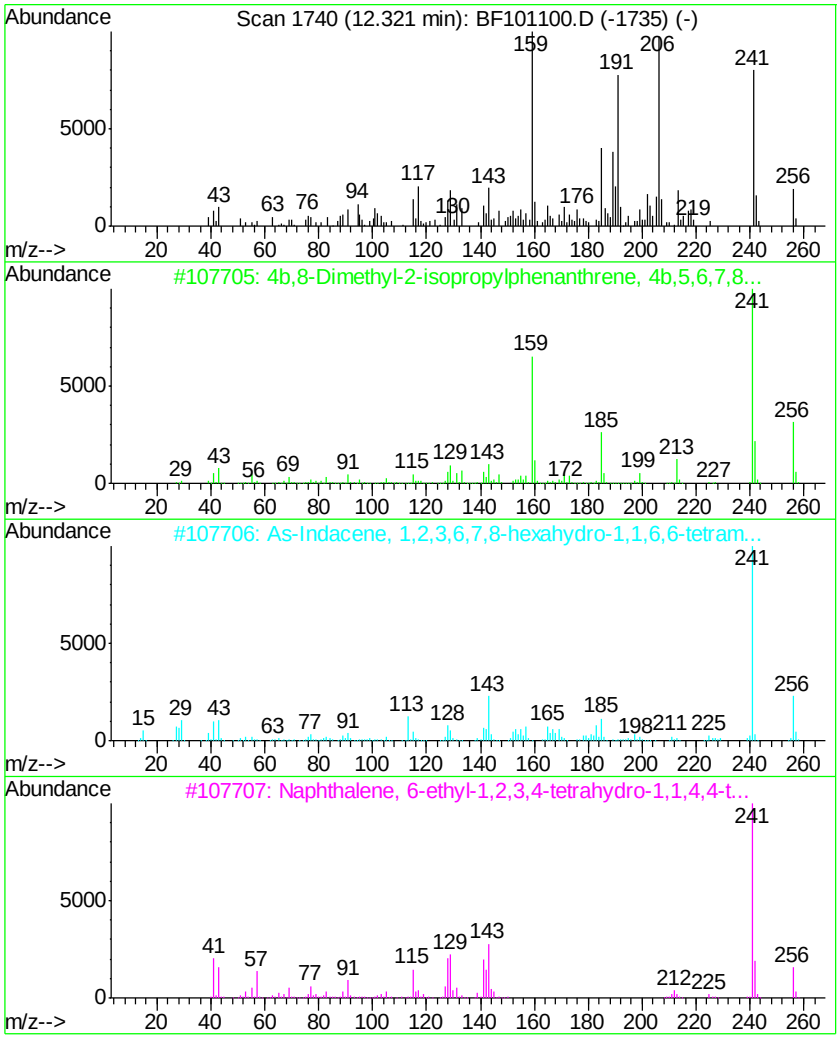
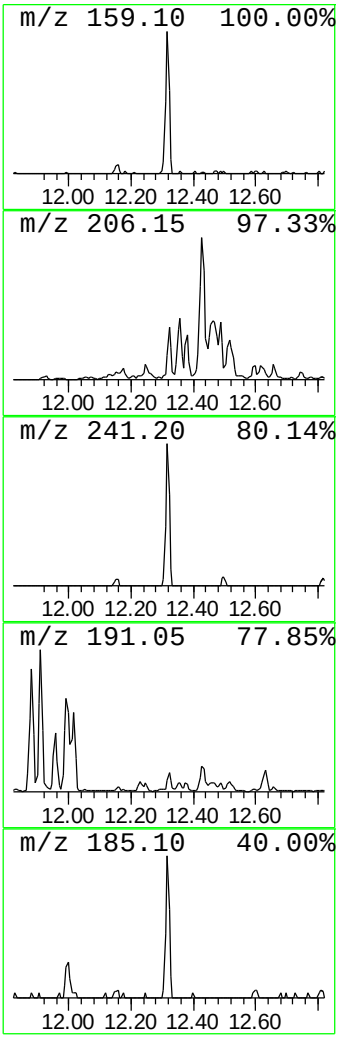
Peak Number 15 4b,8-Dimethyl-2-isopropylph... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.32	12.51 ng	191259	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4b,8-Dimethyl-2-isopropylphenant...	256	C19H28	1000197-14-1	98
2	As-Indacene, 1,2,3,6,7,8-hexahyd...	256	C19H28	017465-47-3	38
3	Naphthalene, 6-ethyl-1,2,3,4-tet...	256	C19H28	301643-35-6	38
4	3,4-Dihydro-3,3-dimethyl-1,9(2H,...	241	C15H15NO2	1000212-95-2	27
5	Sebacic acid, butyl 2-octyl ester	370	C22H42O4	1000354-16-9	27





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Sample : I6696-02 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CS-TP102-B(1-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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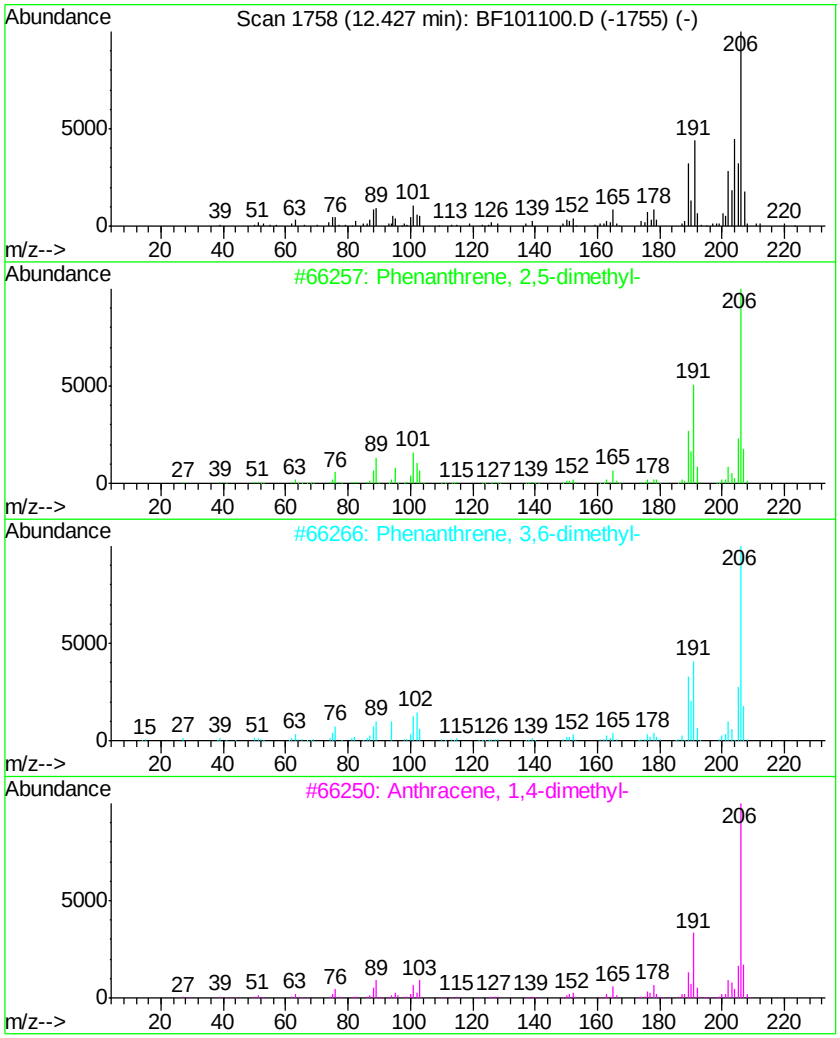
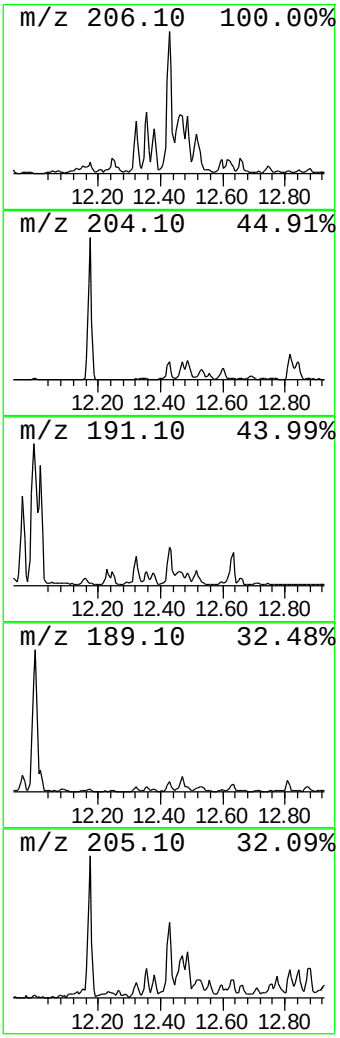
Peak Number 16 Phenanthrene, 2,5-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	10.57 ng	161575	Phenanthrene-d10	11.38

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	86
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	86
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	83
4	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	76
5	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	64





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Sample : I6696-02 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CS-TP102-B(1-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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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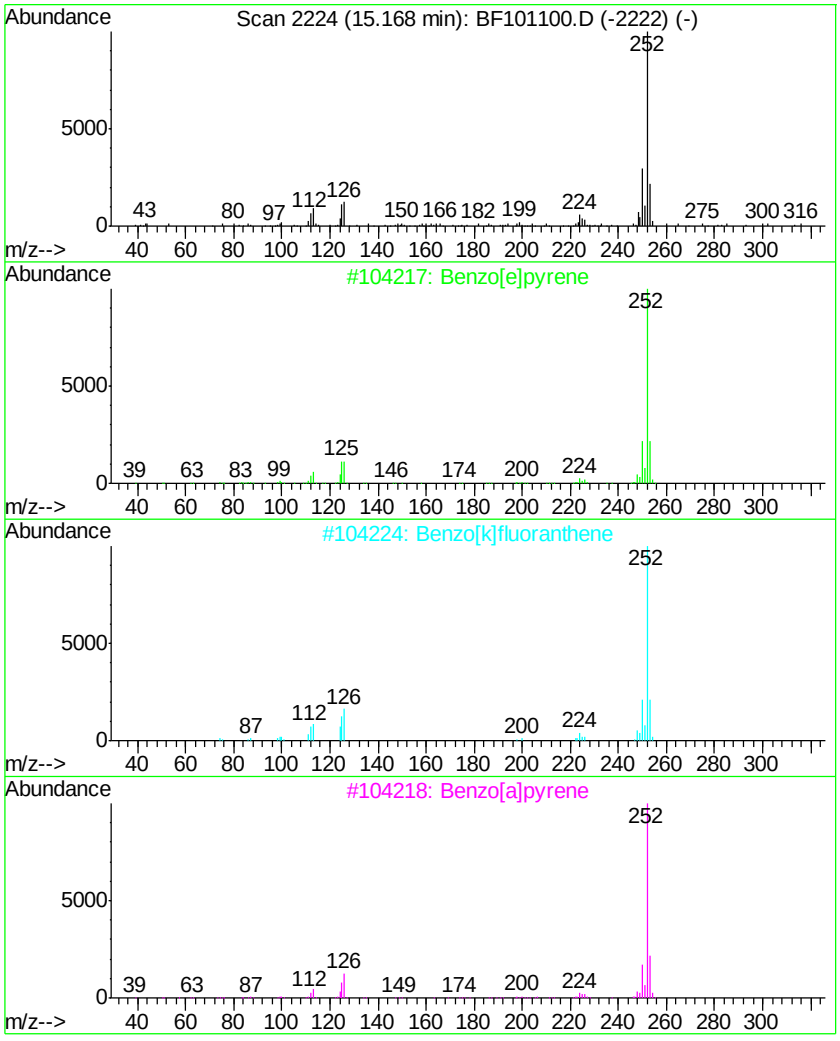
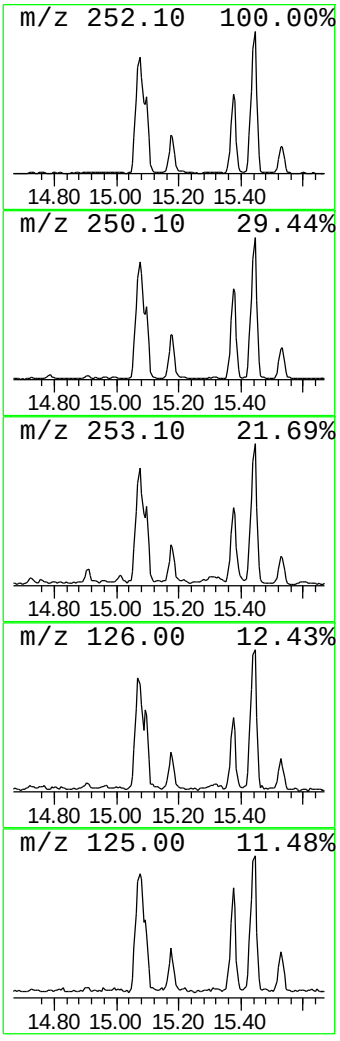
Peak Number 18 Benzo[e]pyrene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.17	12.34 ng	168122	Perylene-d12	15.50

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	96
3	Benzo[a]pyrene	252	C20H12	000050-32-8	96
4	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





Tentatively Identified Compound (LSC) summary

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Data File : BF101100.D
Acq On : 4 Dec 2017 16:15
Operator : SJ/JU
Sample : I6696-02 5X
Misc :
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Instrument : BNA_F
ClientSampleId : CS-TP102-B(1-2)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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
unknown6.62	6.62	16.2	ng	221527	1	6.85	273205	20.0
Naphthalene, 1-et...	9.40	13.1	ng	250237	3	9.89	380833	20.0
Naphthalene, 2,7-...	9.47	12.4	ng	235595	3	9.89	380833	20.0
9H-Fluorene, 1-me...	10.98	10.8	ng	164916	4	11.38	305846	20.0
Dibenzothiophene	11.27	18.3	ng	279959	4	11.38	305846	20.0
Phenanthrene, 2-m...	11.88	21.4	ng	327369	4	11.38	305846	20.0
Phenanthrene, 1-m...	11.91	24.8	ng	379770	4	11.38	305846	20.0
4H-Cyclopenta[def...	12.00	49.3	ng	754540	4	11.38	305846	20.0
Naphthalene, 2-ph...	12.17	21.5	ng	328340	4	11.38	305846	20.0
18-Norabietane	12.23	8.9	ng	135532	4	11.38	305846	20.0
4b,8-Dimethyl-2-i...	12.32	12.5	ng	191259	4	11.38	305846	20.0
Phenanthrene, 2,5...	12.43	10.6	ng	161575	4	11.38	305846	20.0
Benzo[e]pyrene	15.17	12.3	ng	168122	6	15.50	272411	20.0