LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105022.D
Acq On : 2 May 2018 11:24
Operator : JU/SJ
Sample : J2157-13 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-A

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-BF040618.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	5.393	559	562	577	rBV	827550	905907	14.37%	1.012%
2	6.422	734	737	756	rBV	913498	978495	15.52%	1.093%
3	6.557	756	760	768	rVV	1197776	1008767	16.00%	1.127%
4	6.787	795	799	807	rBV	662475	530442	8.42%	0.592%
5	6.940	822	825	836	rBV	944243	804939	12.77%	0.899%
6	7.351	892	895	908	rBV	613370	614046	9.74%	0.686%
7	8.075	1014	1018	1020	rBV	725813	732191	11.62%	0.818%
8	8.092	1020	1021	1030	rVB	239483	181730	2.88%	0.203%
9	8.786	1136	1139	1146	rVB	214028	180402	2.86%	0.201%
10	8.886	1151	1156	1162	rVB	229898	220593	3.50%	0.246%
11	9.145	1196	1200	1210	rBV	1628147	1306361	20.73%	1.459%
12	9.416	1241	1246	1250	rBV	134061	182065	2.89%	0.203%
13	9.486	1254	1258	1260	rVV	266503	267555	4.24%	0.299%
14	9.692	1289	1293	1297	rBV	646895	602328	9.56%	0.673%
15	9.828	1313	1316	1319	rVB2	923137	767588	12.18%	0.857%
16	9.863	1319	1322	1325	rVB	683340	611543	9.70%	0.683%
17	10.033	1347	1351	1354	rVV2	493951	454809	7.22%	0.508%
18	10.375	1406	1409	1415	rVB	727869	755028	11.98%	0.843%
19	10.533	1433	1436	1439	rVB	264360	239354	3.80%	0.267%
20	10.622	1447	1451	1455	rVB	929354	915750	14.53%	1.023%
21	10.928	1496	1503	1505	rBV3	237860	323604	5.13%	0.361%
22	11.051	1519	1524	1526	rVV3	178858	212480	3.37%	0.237%
23	11.075	1526	1528	1534	rVV2	199955	255892	4.06%	0.286%
24	11.128	1534	1537	1541	rVV	505255	486763	7.72%	0.544%
25	11.169	1541	1544	1547	rVV2	197216	253014	4.01%	0.283%
26	11.216	1547	1552	1557	rVB	497280	482785	7.66%	0.539%
27	11.322	1565	1570	1572	rBV	695940	852660	13.53%	0.952%
28	11.357	1572	1576	1579	rVV	4095204	5284692	83.85%	5.902%
29	11.398	1579	1583	1586	rVV	1343225	1340873	21.27%	1.498%
30	11.433	1586	1589	1594	rVV2	173087	251384	3.99%	0.281%
31	11.557	1605	1610	1614	rVV2	731051	828545	13.15%	0.925%
32	11.616	1618	1620	1624	rVV3	188115	214310	3.40%	0.239%
33	11.657	1624	1627	1631	rVV3	219711	285996	4.54%	0.319%
34	11.733	1631	1640	1645	rVB3	132230	248135	3.94%	0.277%

LSC Area Percent Report

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Data File : BF105022.D
Acq On : 2 May 2018 11:24
Operator : JU/SJ
Sample : J2157-13 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-A

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-BF040618.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.822	1651	1655	1658	rVV	988191	973852	15.45%	1.088%
36	11.851	1658	1660	1664	rVV	1259273	1171913	18.59%	1.309%
37	11.898	1664	1668	1671	rVV	353647	353630	5.61%	0.395%
38	11.939	1671	1675	1677	rVV2	1340406	1474072	23.39%	1.646%
39	11.957	1677	1678	1683	rVB	732118	504651	8.01%	0.564%
40	12.116	1702	1705	1709	rVV	647720	642937	10.20%	0.718%
41	12.157	1709	1712	1715	rVV	934764	787329	12.49%	0.879%
42	12.269	1725	1731	1734	rBV2	224111	301789	4.79%	0.337%
43	12.298	1734	1736	1738	rVB	268028	194860	3.09%	0.218%
44	12.327	1738	1741	1744	rVB	230160	212536	3.37%	0.237%
45	12.374	1744	1749	1752	rBV	665381	721767	11.45%	0.806%
46	12.416	1752	1756	1758	rVV4	330067	439936	6.98%	0.491%
47	12.474	1761	1766	1770	rVB2	517389	608903	9.66%	0.680%
48	12.563	1773	1781	1783	rBV	4114823	6302860	100.00%	7.040%
49	12.604	1786	1788	1791	rVB	210082	179366	2.85%	0.200%
50	12.639	1791	1794	1798	rVB	350344	306453	4.86%	0.342%
51	12.692	1798	1803	1806	rBV2	479124	529070	8.39%	0.591%
52	12.792	1812	1820	1822	rBV2	3822779	6224153	98.75%	6.952%
53	12.822	1822	1825	1829	rVB2	470021	480821	7.63%	0.537%
54	12.892	1832	1837	1838	rBV	497942	526596	8.35%	0.588%
55	12.910	1838	1840	1842	rVV	1151608	930067	14.76%	1.039%
56	12.933	1842	1844	1848	rVB	401801	376434	5.97%	0.420%
57	12.992	1849	1854	1858	rBV3	539492	985183	15.63%	1.100%
58	13.080	1865	1869	1871	rBV3	439280	710217	11.27%	0.793%
59	13.104	1871	1873	1876	rVB	1006512	792666	12.58%	0.885%
60	13.169	1881	1884	1887	rVV	450199	400521	6.35%	0.447%
61	13.210	1887	1891	1894	rVV2	741707	859316	13.63%	0.960%
62	13.304	1904	1907	1909	rBV	453111	340457	5.40%	0.380%
63	13.333	1909	1912	1916	rBV3	393981	418792	6.64%	0.468%
64	13.633	1959	1963	1966	rVV	848561	821004	13.03%	0.917%
65	13.745	1976	1982	1984	rBV	911438	973736	15.45%	1.088%
66	13.769	1984	1986	1988	rVV	638929	562166	8.92%	0.628%
67	13.798	1988	1991	1997	rVV3	564708	1007127	15.98%	1.125%
68	13.857	1997	2001	2007	rVB	819024	938516	14.89%	1.048%
69	13.921	2007	2012	2015	rBV	193744	261785	4.15%	0.292%
70	14.010	2019	2027	2031	rBV2	2636682	5155149	81.79%	5.758%
71	14.051	2031	2034	2037	rVV	2672984	2965860	47.06%	3.313%

LSC Area Percent Report

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Operator : JU/SJ
Sample : J2157-13 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-A

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-BF040618.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.127	2044	2047	2049	rVV	484937	421904	6.69%	0.471%
73	14.174	2052	2055	2060	rVV3	444256	627015	9.95%	0.700%
74	14.221	2060	2063	2065	rVV	227169	251981	4.00%	0.281%
75	14.257	2067	2069	2072	rVV	360919	325655	5.17%	0.364%
76	14.386	2088	2091	2093	rBV2	275353	319372	5.07%	0.357%
77	14.427	2093	2098	2101	rVV	745510	1001060	15.88%	1.118%
78	14.463	2101	2104	2106	rVV2	428176	445939	7.08%	0.498%
79	14.516	2109	2113	2115	rVV3	212729	377783	5.99%	0.422%
80	14.568	2119	2122	2124	rVV	435917	491685	7.80%	0.549%
81	14.586	2124	2125	2129	rVV2	321040	290365	4.61%	0.324%
82	14.639	2132	2134	2137	rVB	197378	192993	3.06%	0.216%
83	14.780	2154	2158	2167	rBV6	201438	446760	7.09%	0.499%
84	14.874	2171	2174	2179	rVB2	148971	228951	3.63%	0.256%
85	14.963	2185	2189	2192	rBV2	444092	466785	7.41%	0.521%
86	15.139	2211	2219	2222	rBV2	2227650	4862691	77.15%	5.431%
87	15.239	2232	2236	2239	rVB	687284	742260	11.78%	0.829%
88	15.321	2246	2250	2251	rBV2	170488	221061	3.51%	0.247%
89	15.439	2264	2270	2276	rVB	1382008	2154944	34.19%	2.407%
90	15.515	2276	2283	2286	rVV	1911836	3011750	47.78%	3.364%
91	15.563	2287	2291	2293	rVV	419785	495140	7.86%	0.553%
92	15.598	2293	2297	2303	rVB2	852816	1124264	17.84%	1.256%
93	16.121	2382	2386	2390	rBV	159705	218961	3.47%	0.245%
94	16.662	2474	2478	2482	rBV	92508	176749	2.80%	0.197%
95	16.927	2520	2523	2529	rVB2	131274	211589	3.36%	0.236%
96	17.062	2537	2546	2551	rBV	973392	2191684	34.77%	2.448%
97	17.215	2567	2572	2578	rBV	224840	482121	7.65%	0.538%
98	17.280	2578	2583	2590	rVB2	183963	376228	5.97%	0.420%
99	17.515	2614	2623	2630	rVB	725593	1655926	26.27%	1.849%
100	17.739	2655	2661	2675	rVB2	248886	703304	11.16%	0.786%

Sum of corrected areas: 89534436

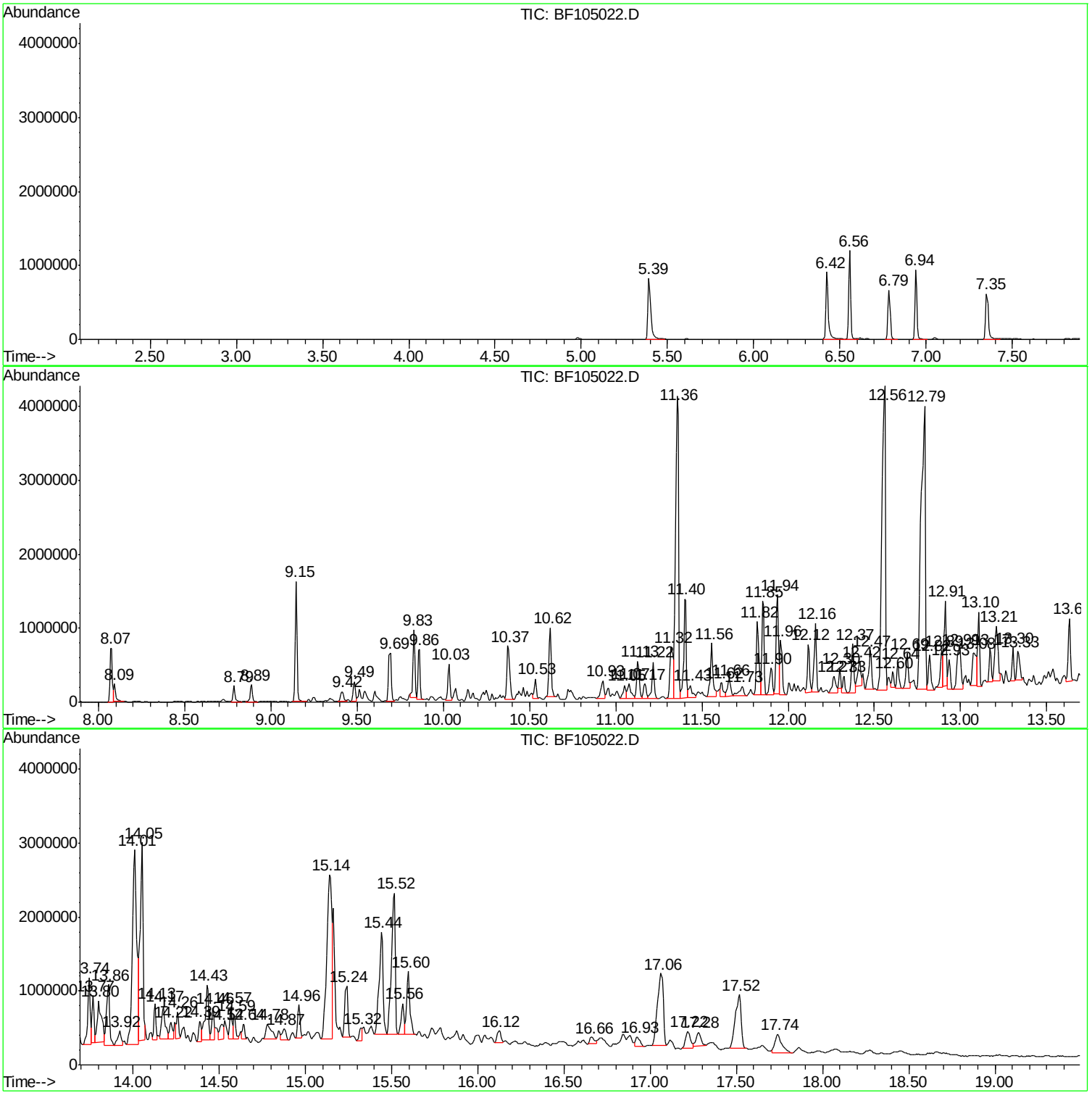
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105022.D
Acq On : 2 May 2018 11:24
Operator : JU/SJ
Sample : J2157-13 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.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\BF050218\
Data File : BF105022.D
Acq On : 2 May 2018 11:24
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Misc :
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Instrument : BNA_F
ClientSampleId : CL-02-043018-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

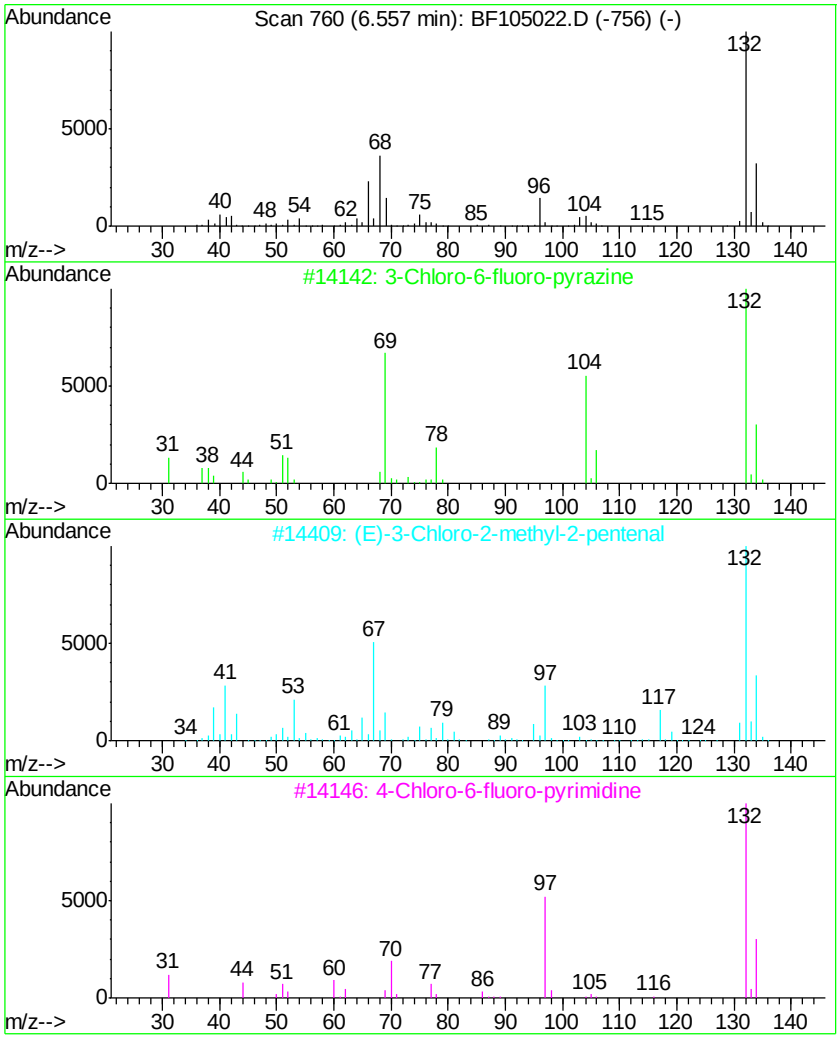
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

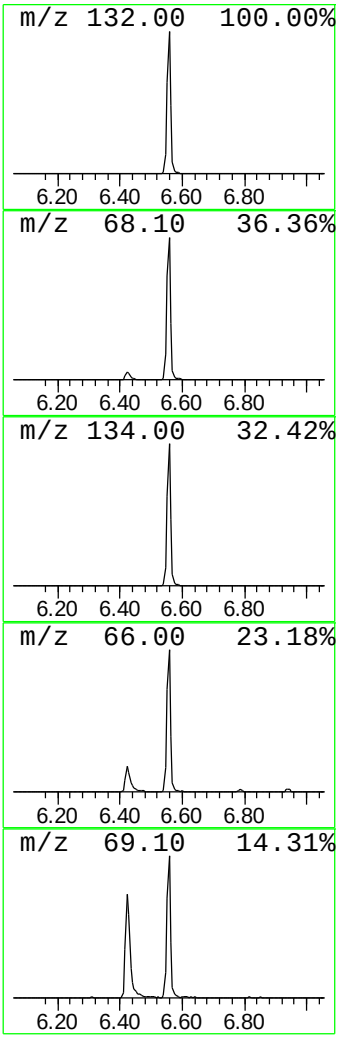
****

Peak Number 1 unknown6.56 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.56	38.04 ng	1008770	1,4-Dichlorobenzene-d4	6.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	25
2	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	25
3	4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	9
4	4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9
5	2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9





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Sample : J2157-13 2X
Misc :
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Instrument : BNA_F
ClientSampleId : CL-02-043018-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

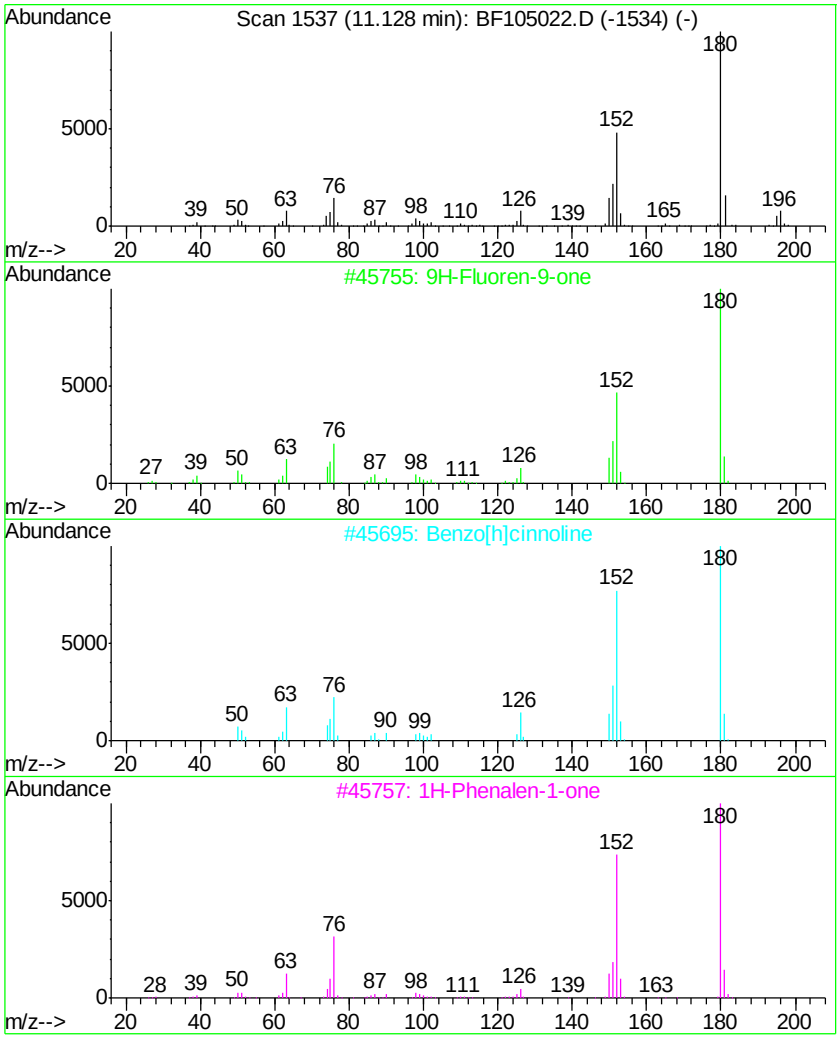
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

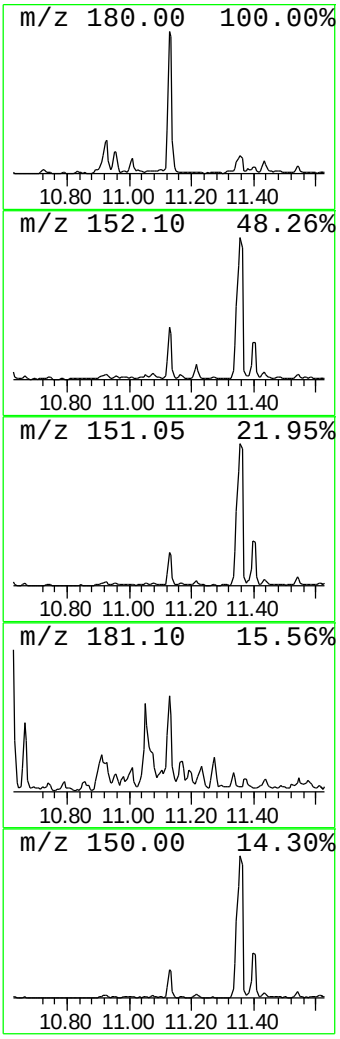
****

Peak Number 3 9H-Fluoren-9-one Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.13	11.42 ng	486763	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
2	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	58
4	2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	53
5	2-Benzothiophen-4(5H)-one, 6,7-d...	180	C10H12OS	1000338-11-9	50





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Misc :
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Instrument : BNA_F
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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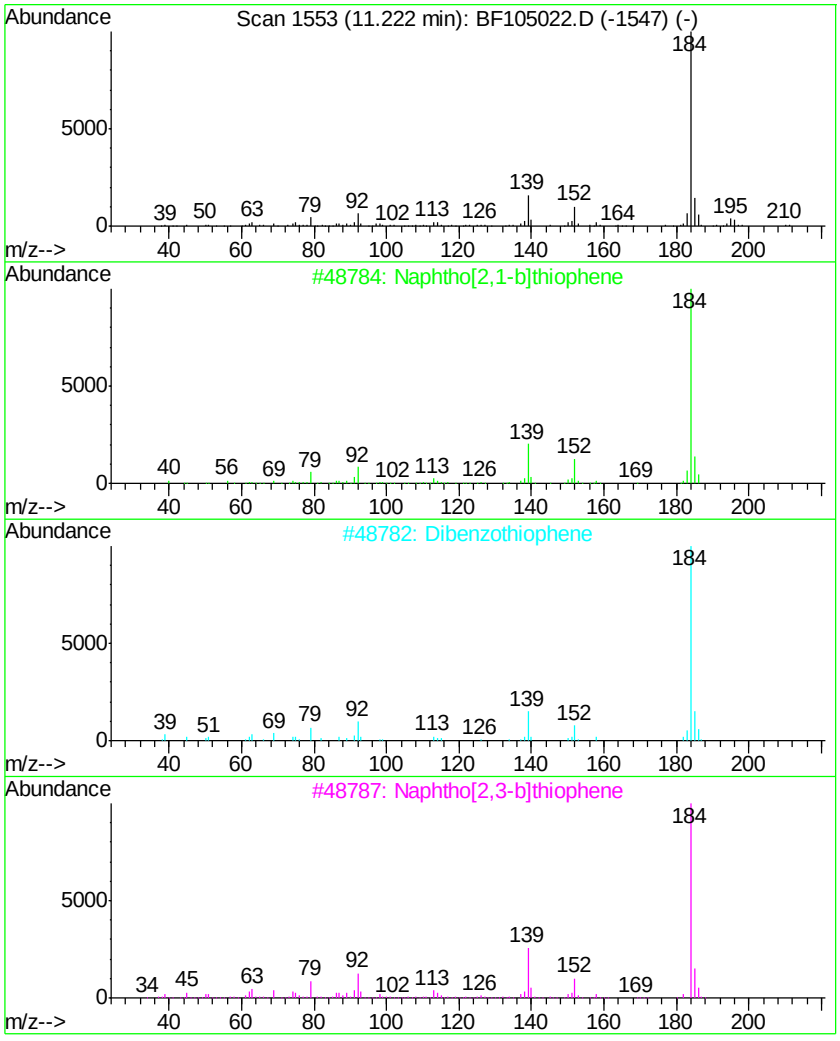
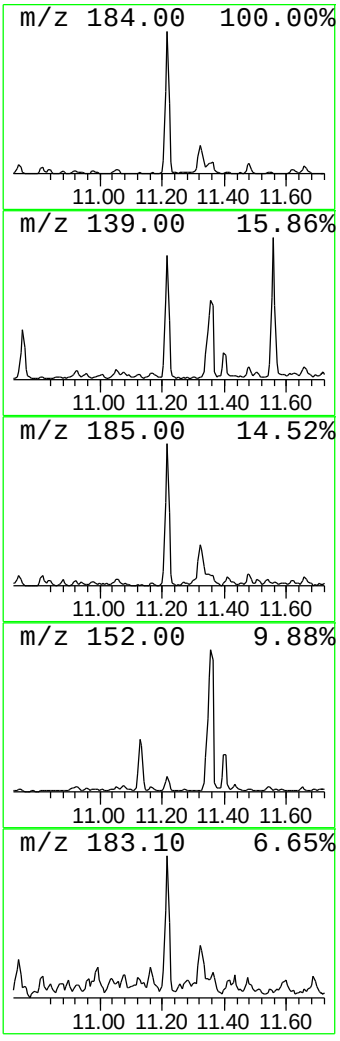
Peak Number 4 Naphtho[2,1-b]thiophene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.22	11.32 ng	482785	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2	Dibenzothiophene	184	C12H8S	000132-65-0	95
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	93
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90





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Acq On : 2 May 2018 11:24
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Sample : J2157-13 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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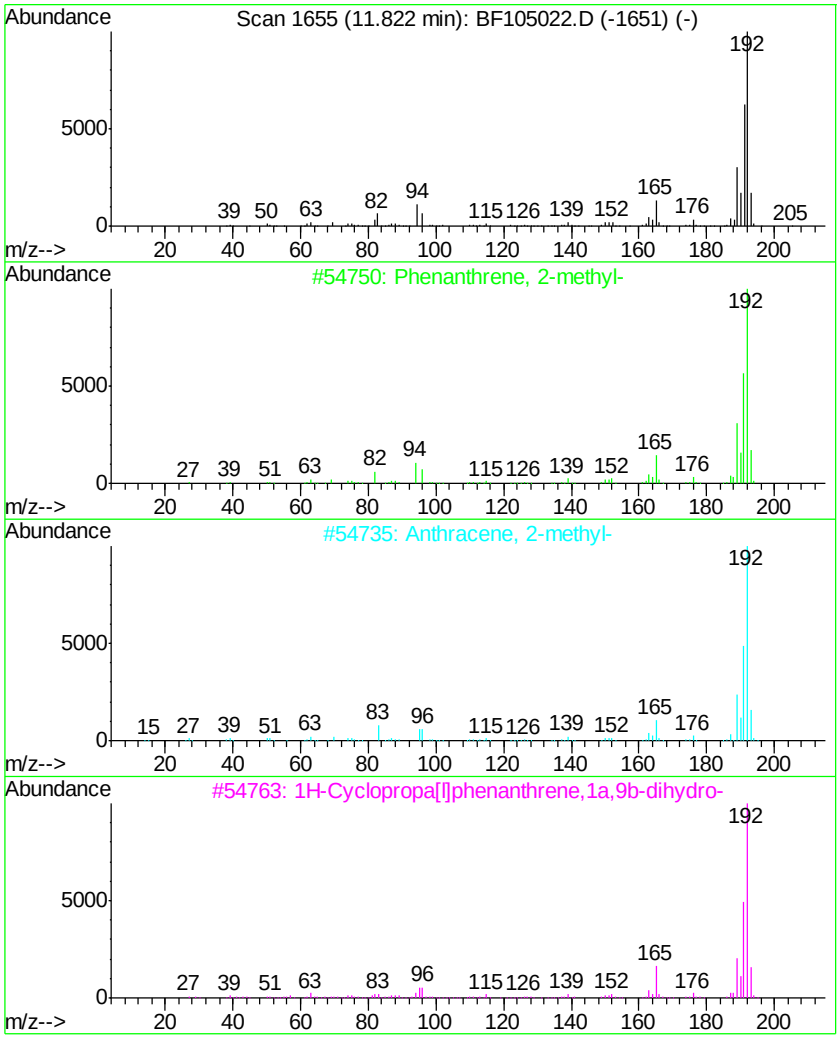
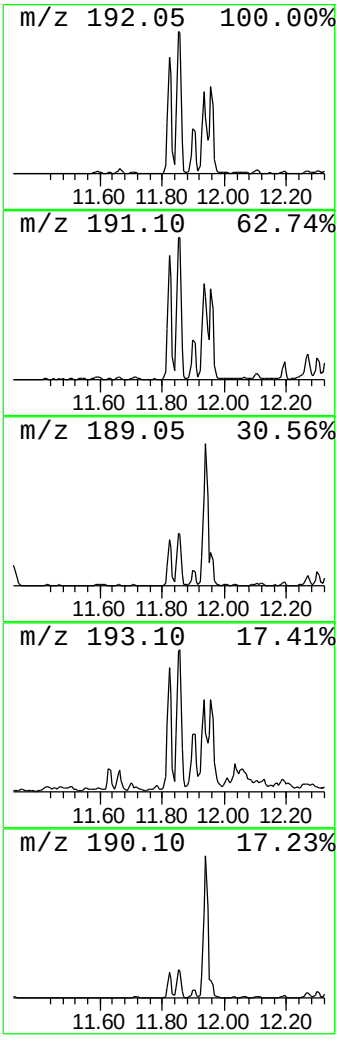
Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	22.84 ng	973852	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95





Data Path : Z:\HPCHEM1\BNA F\DATA\BF050218\
Data File : BF105022.D
Acq On : 2 May 2018 11:24
Operator : JU/SJ
Sample : J2157-13 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

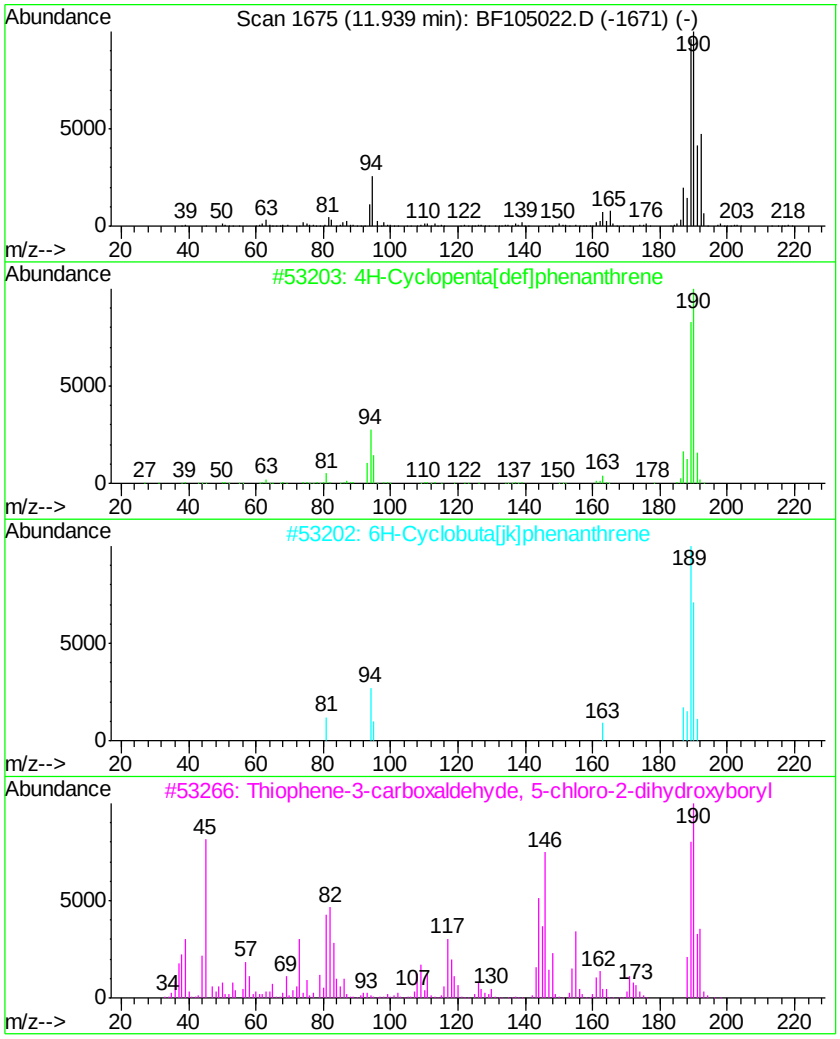
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

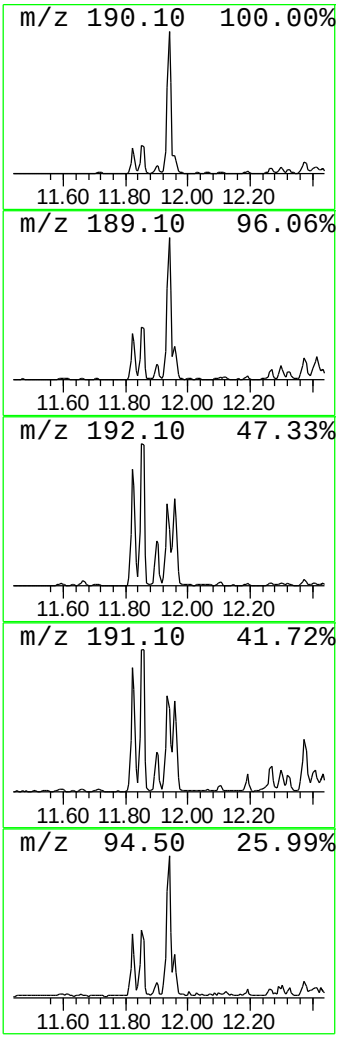
****

Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.94	34.58 ng	1474070	Phenanthrene-d10	11.32

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	53
3	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	53
4	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	50
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	43





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Acq On : 2 May 2018 11:24
Operator : JU/SJ
Sample : J2157-13 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-A

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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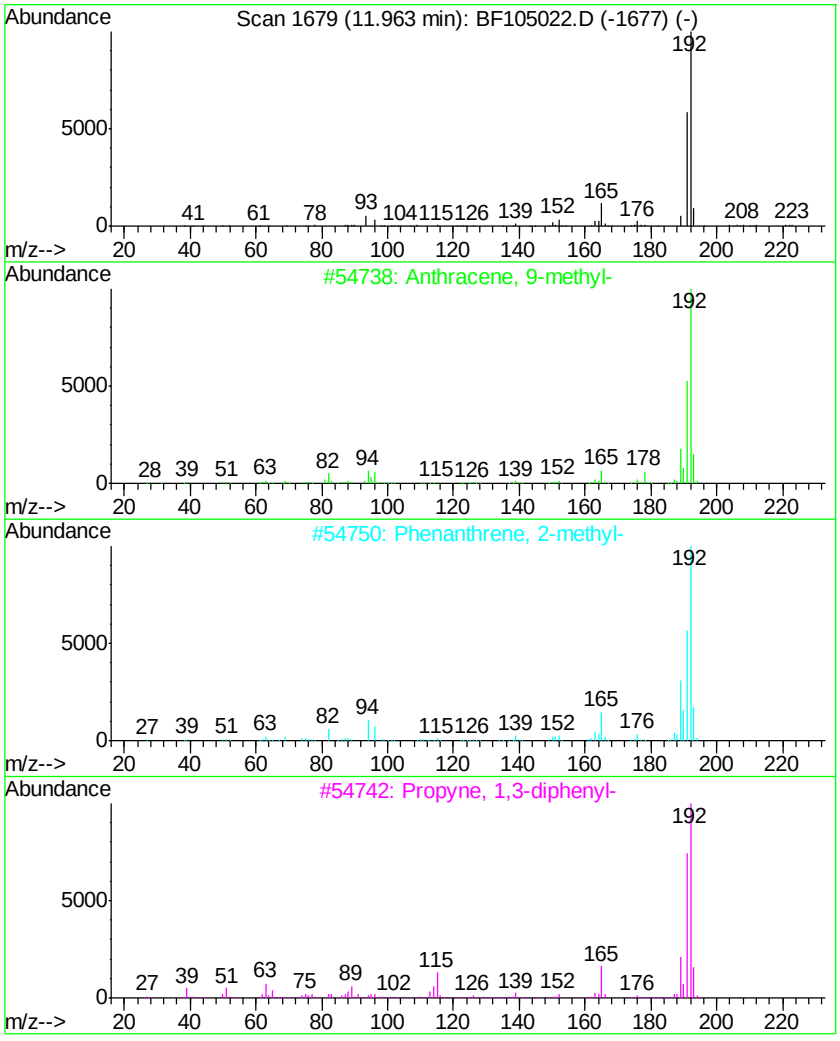
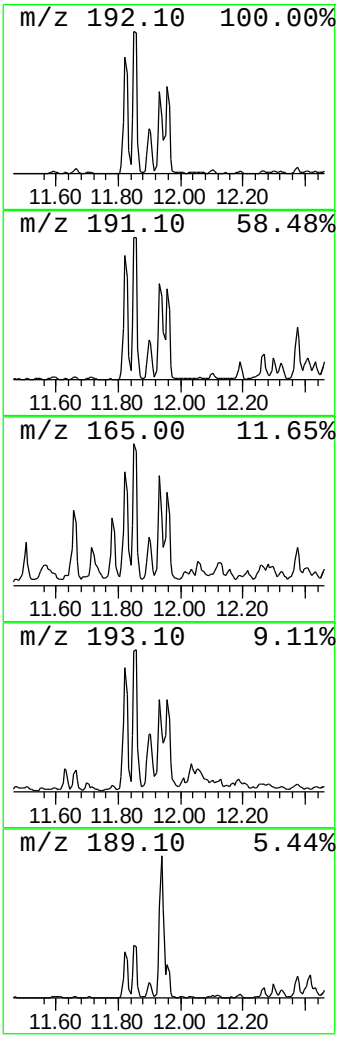
Peak Number 8 Anthracene, 9-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	11.84 ng	504651	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	87
3	Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	87
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	83
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	83





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Sample : J2157-13 2X
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Instrument : BNA_F
ClientSampleId : CL-02-043018-A

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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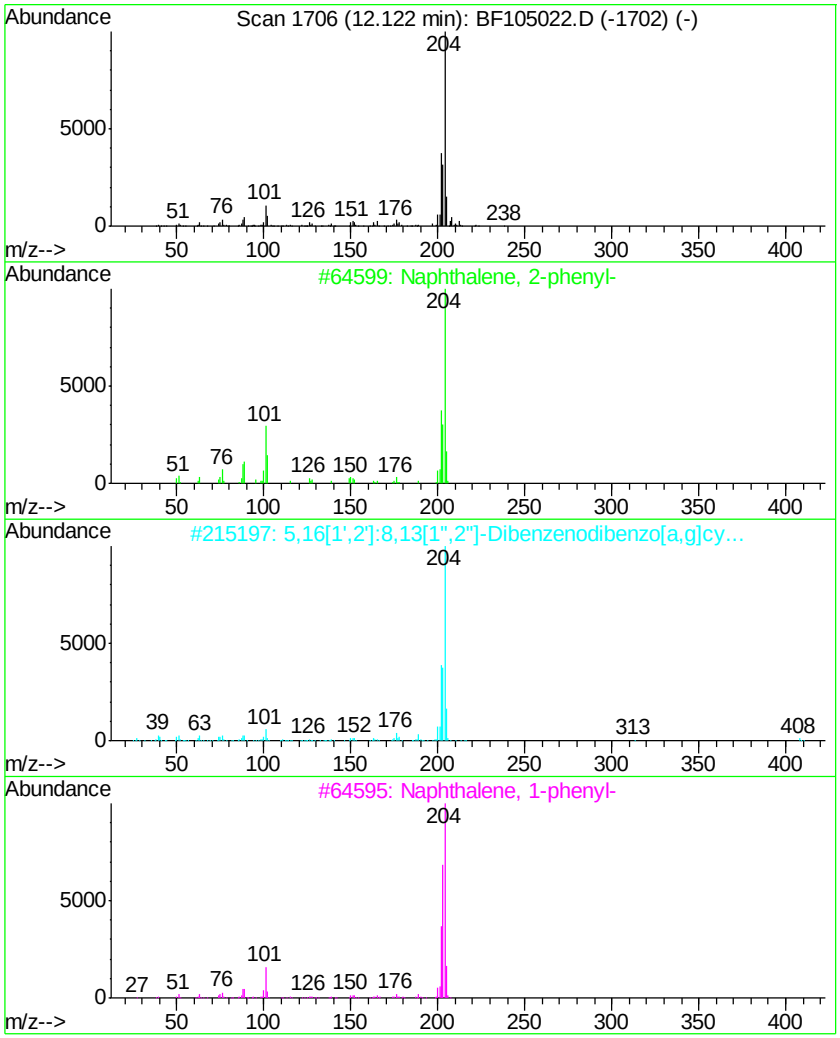
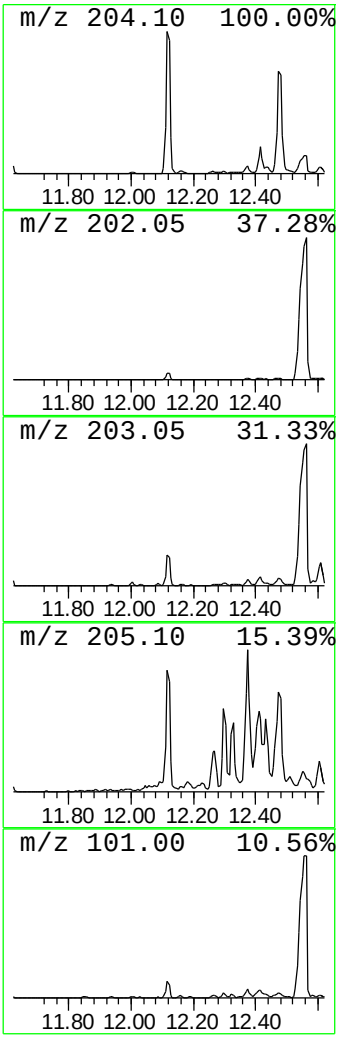
Peak Number 9 Naphthalene, 2-phenyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.12	15.08 ng	642937	Phenanthrene-d10	11.32

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	87
3	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	78
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	62





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Misc :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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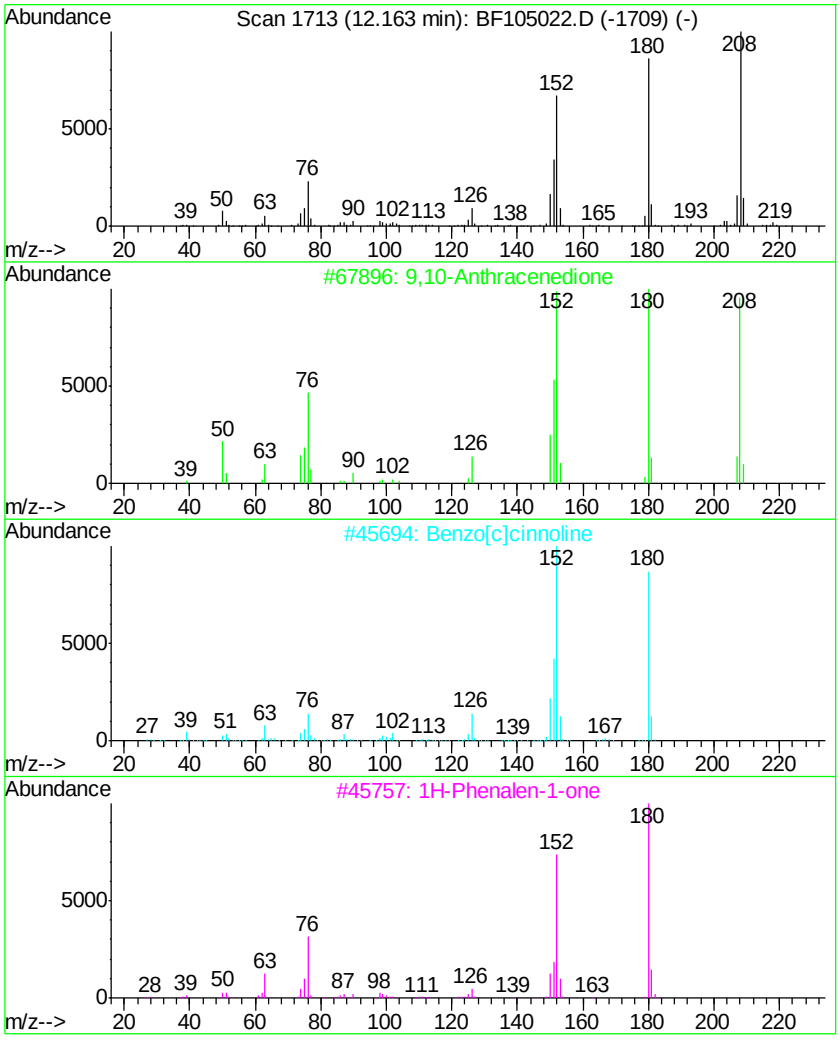
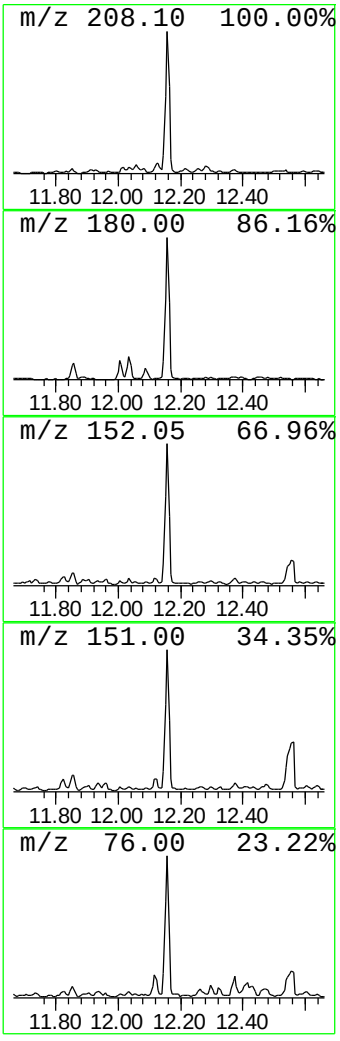
Peak Number 10 9,10-Anthracenedione Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.16	18.47 ng	787329	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	93
3	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	50
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	45





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ClientSampleId : CL-02-043018-A

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

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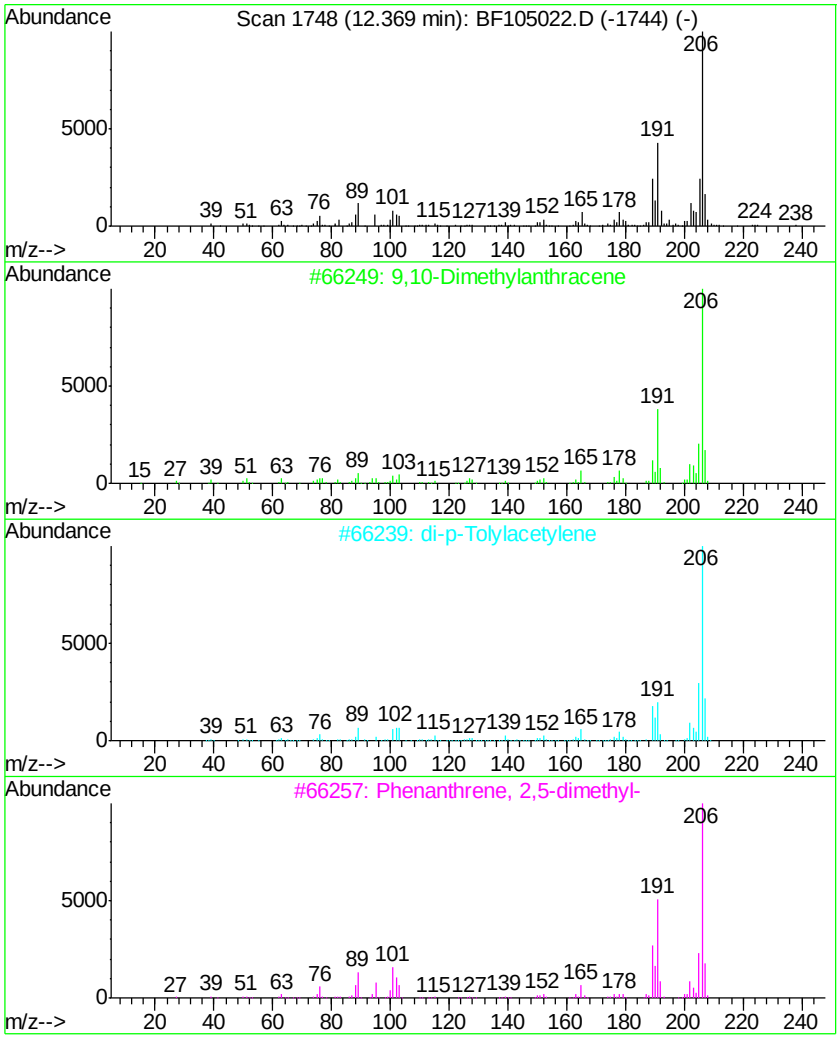
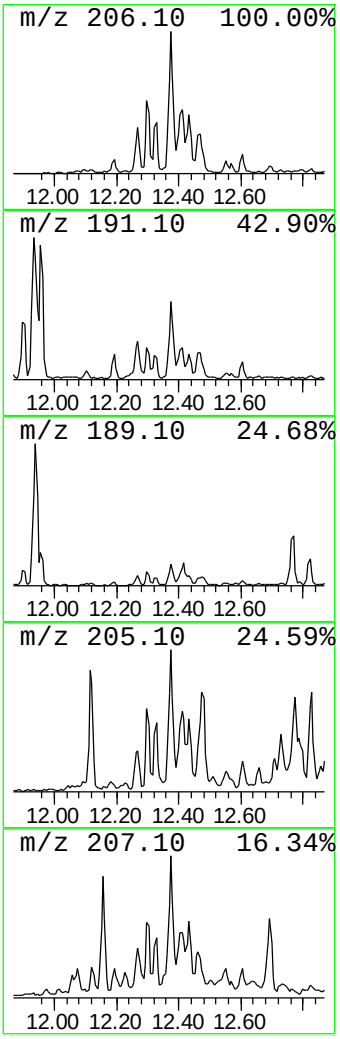
Peak Number 11 9,10-Dimethylanthracene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	16.93 ng	721767	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	96
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
4	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	94
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93





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Instrument : BNA_F
ClientSampleId : CL-02-043018-A

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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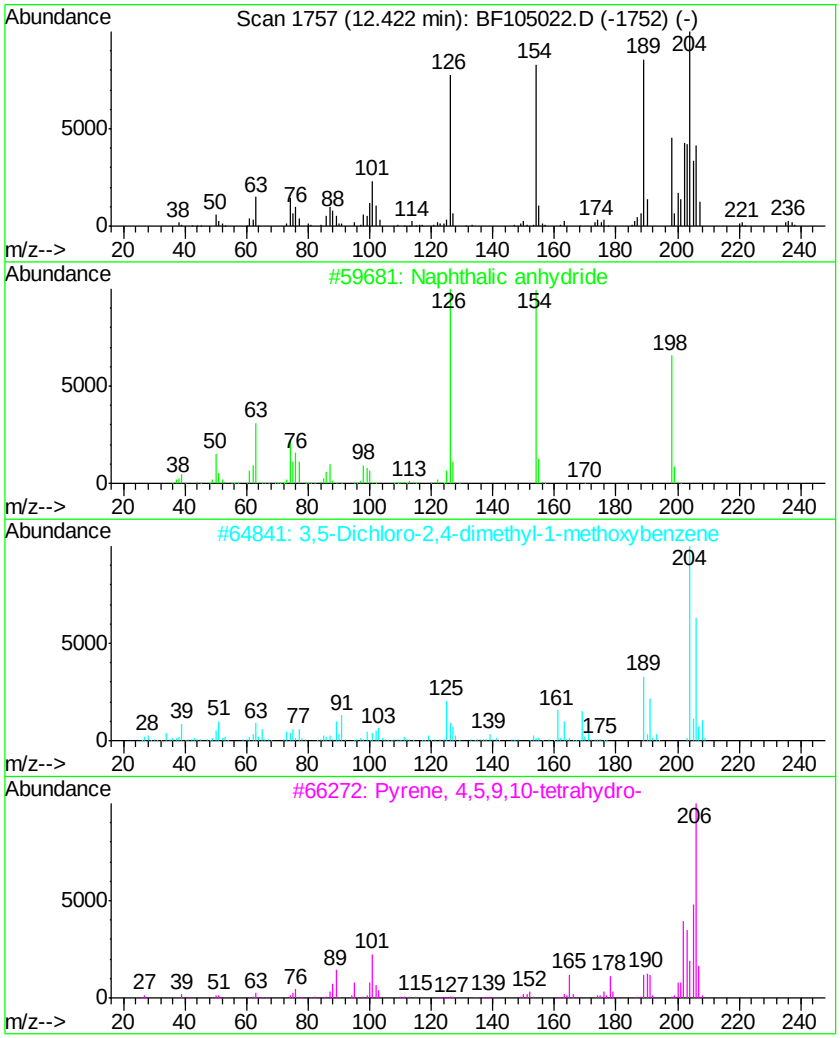
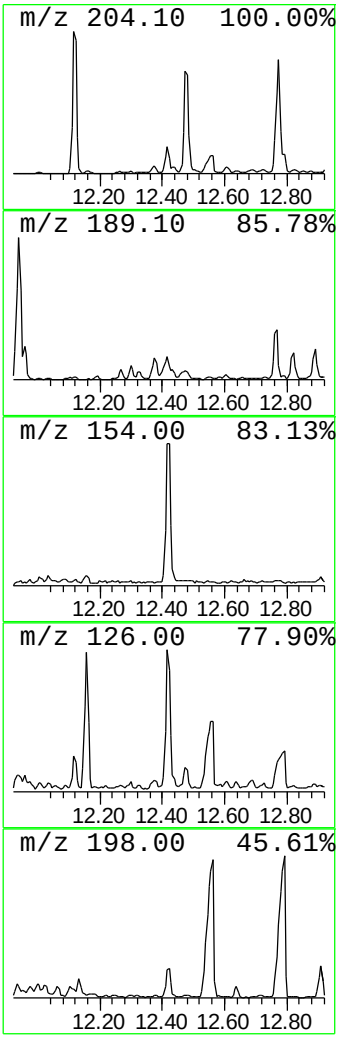
Peak Number 12 Naphthalic anhydride Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	10.32 ng	439936	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalic anhydride	198	C12H6O3	000081-84-5	53
2	3,5-Dichloro-2,4-dimethyl-1-meth...	204	C9H10Cl2O	1000250-17-8	38
3	Pyrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	35
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	30
5	3-Benzofurancarboxylic acid, 2-e...	204	C12H12O3	040800-94-0	22





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ClientSampleId : CL-02-043018-A

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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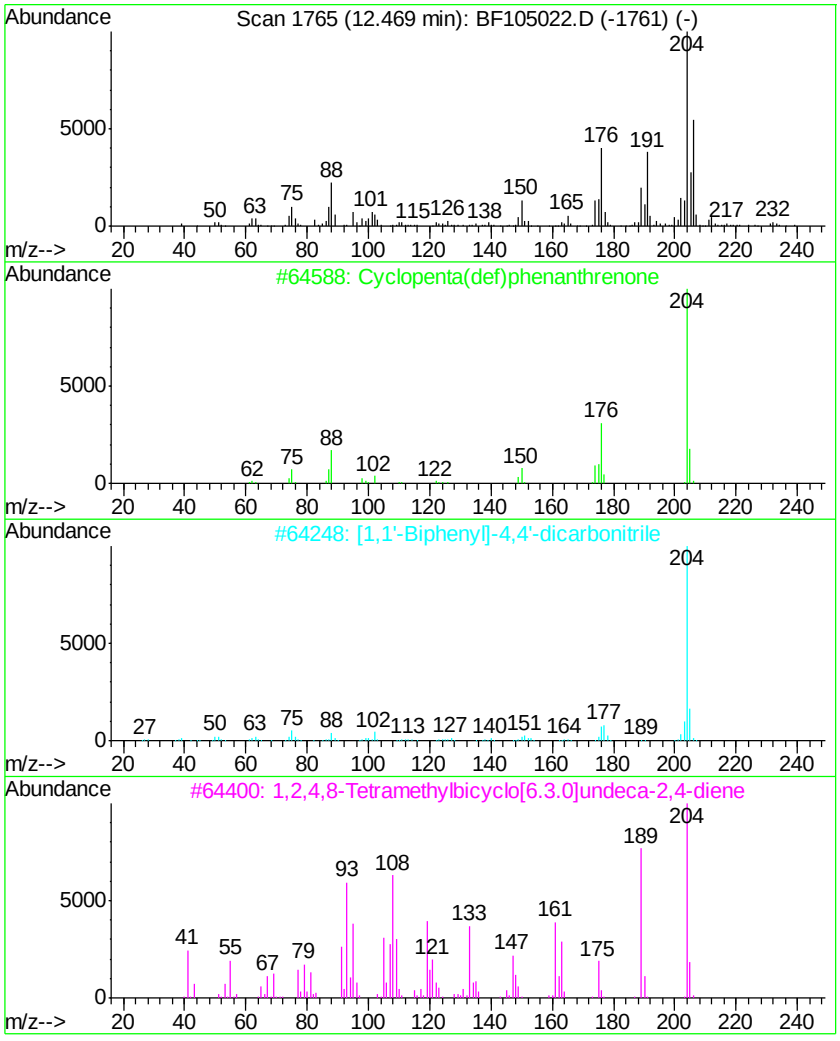
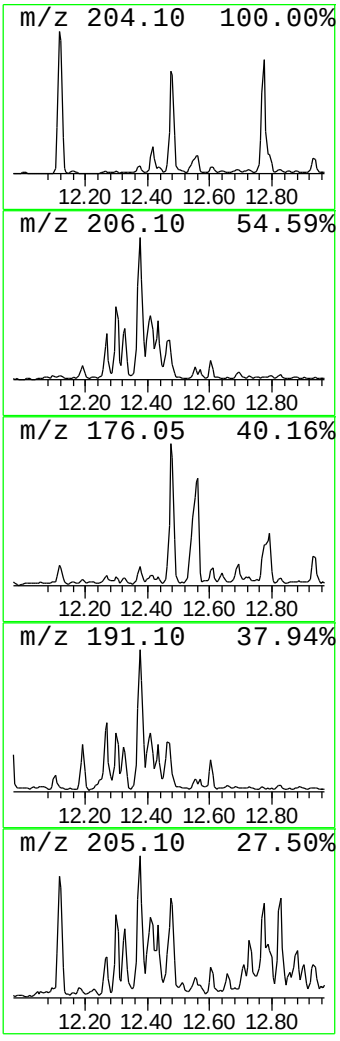
Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.47	14.28 ng	608903	Phenanthrene-d10	11.32

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	72
3	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	55
4	4(equat)-(but-3-en-1-ynyl)-2(axi...	219	C14H21NO	038423-22-2	53
5	6-Phenyl-2-thiouracil	204	C10H8N2OS	005590-94-3	53





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Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-A

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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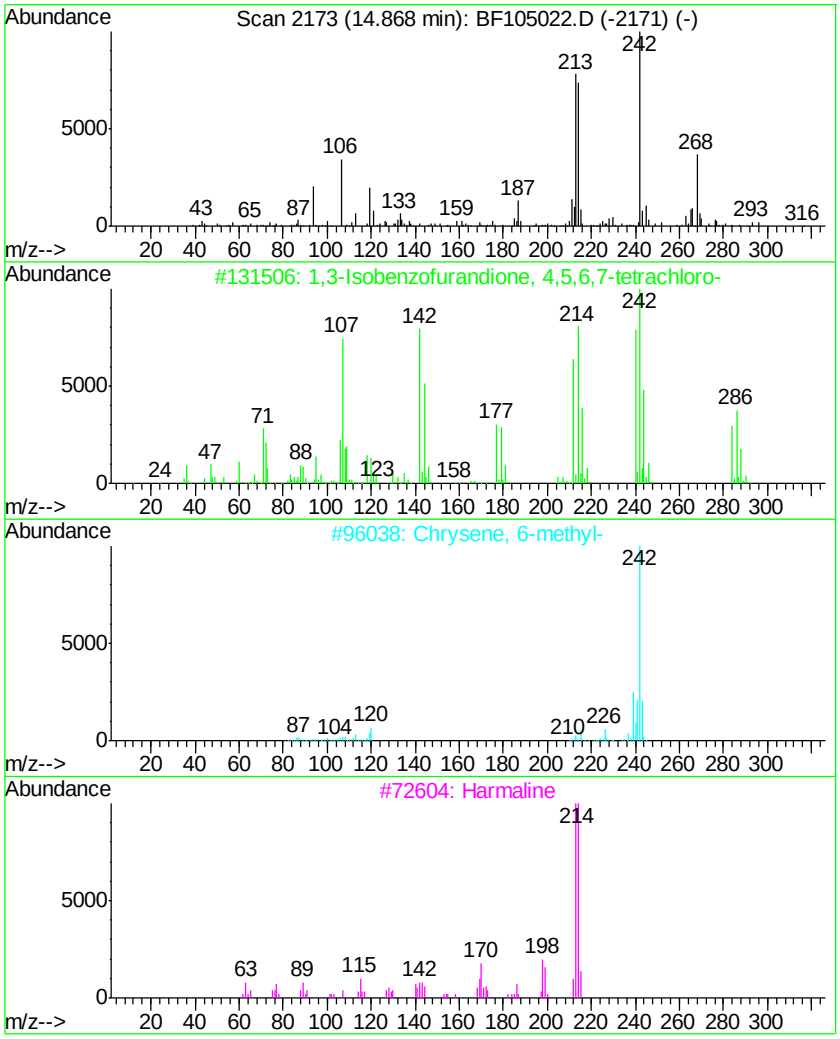
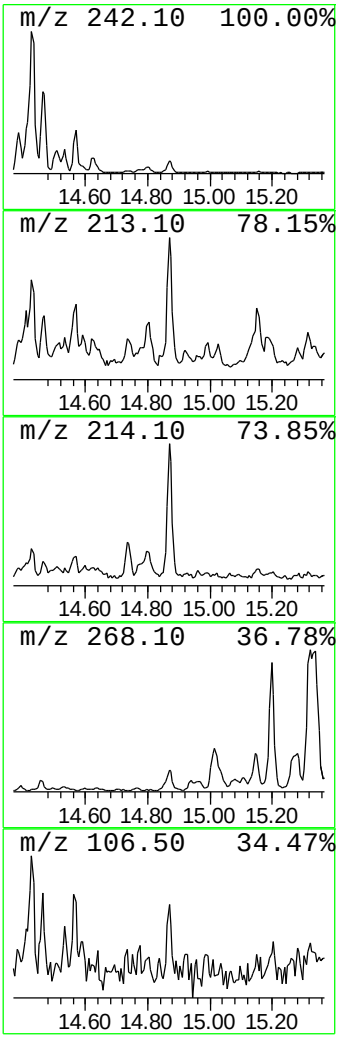
Peak Number 14 unknown14.87 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.87	9.25 ng	228951	Perylene-d12	15.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Isobenzofurandione, 4,5,6,7-...	284	C8Cl4O3	000117-08-8	25
2	Chrysene, 6-methyl-	242	C19H14	001705-85-7	22
3	Harmaline	214	C13H14N2O	000304-21-2	22
4	9H-Fluorene, 9-phenyl-	242	C19H14	000789-24-2	18
5	Benzo[c]phenanthrene, 2-methyl-	242	C19H14	002606-85-1	18





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Instrument : BNA_F
ClientSampleId : CL-02-043018-A

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TIC Integration Parameters: LSCINT.P

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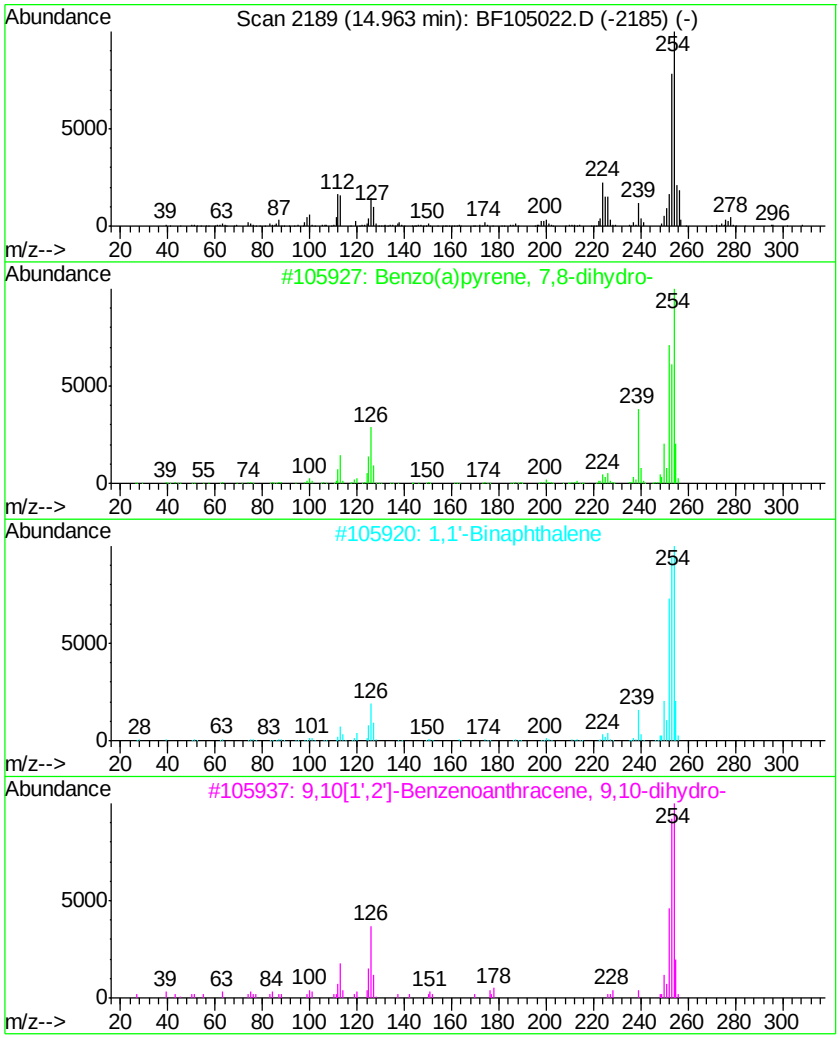
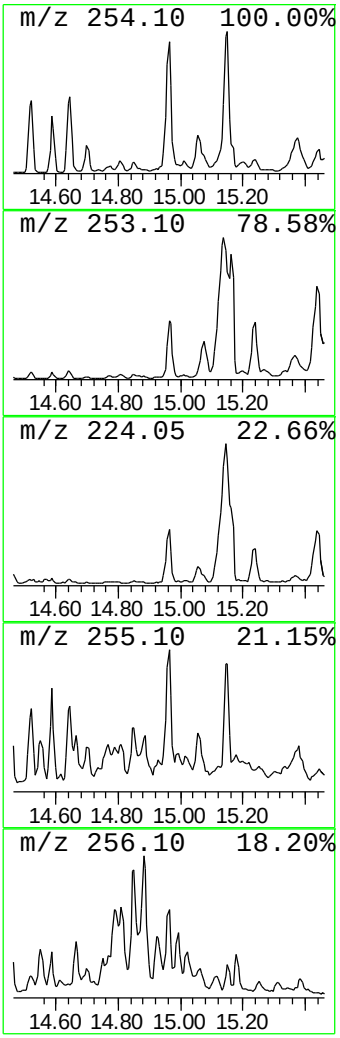
Peak Number 15 Benzo(a)pyrene, 7,8-dihydro- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.96	18.85 ng	466785	Perylene-d12	15.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(a)pyrene, 7,8-dihydro-	254	C20H14	017573-23-8	81
2	1,1'-Binaphthalene	254	C20H14	000604-53-5	81
3	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	76
4	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	72
5	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	72





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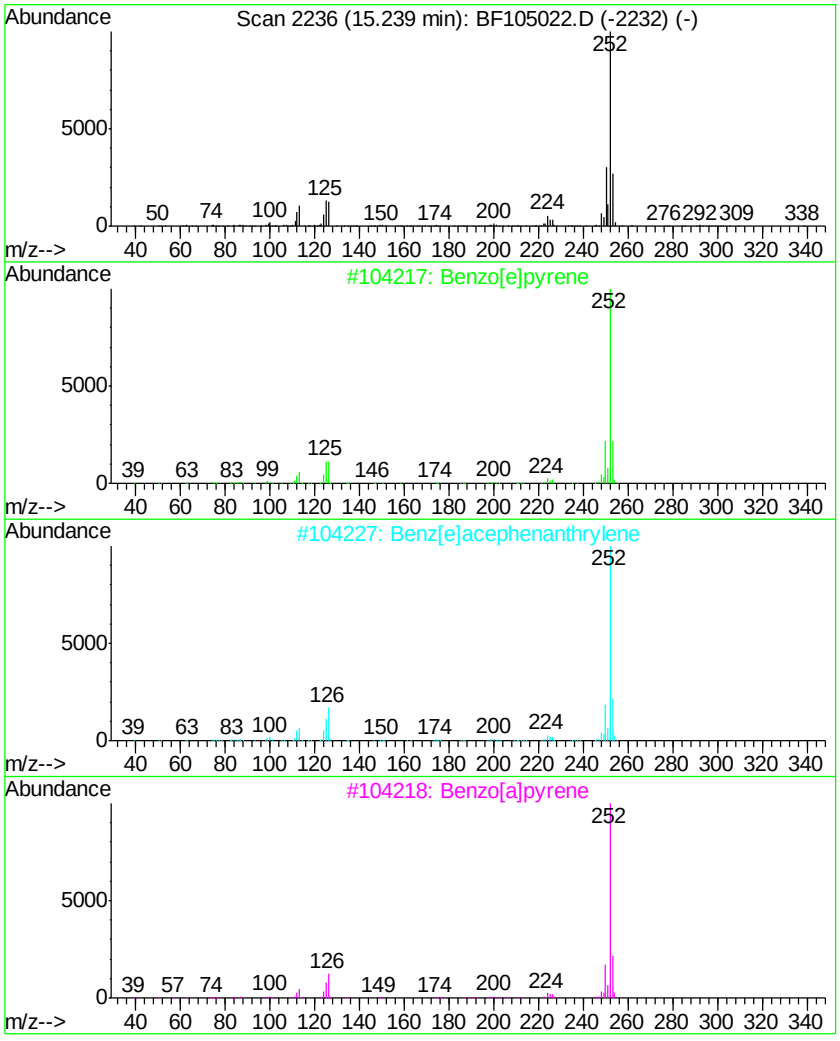
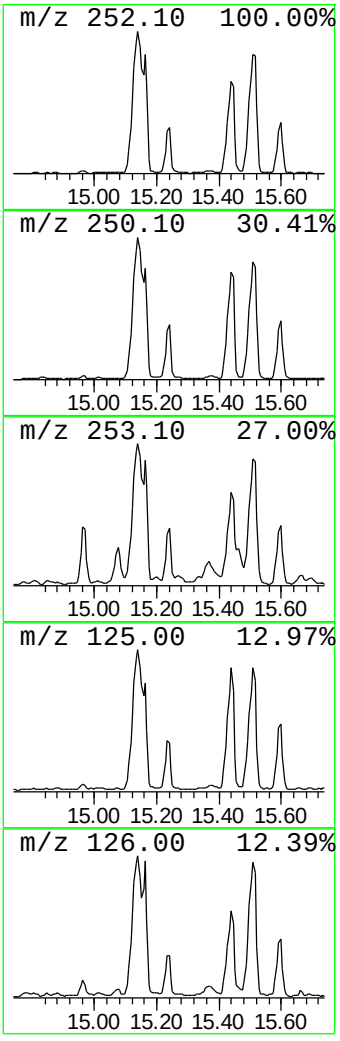
Peak Number 16 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.24	29.98 ng	742260	Perylene-d12	15.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
3	Benzo[a]pyrene	252	C20H12	000050-32-8	93
4	Perylene	252	C20H12	000198-55-0	90
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	90





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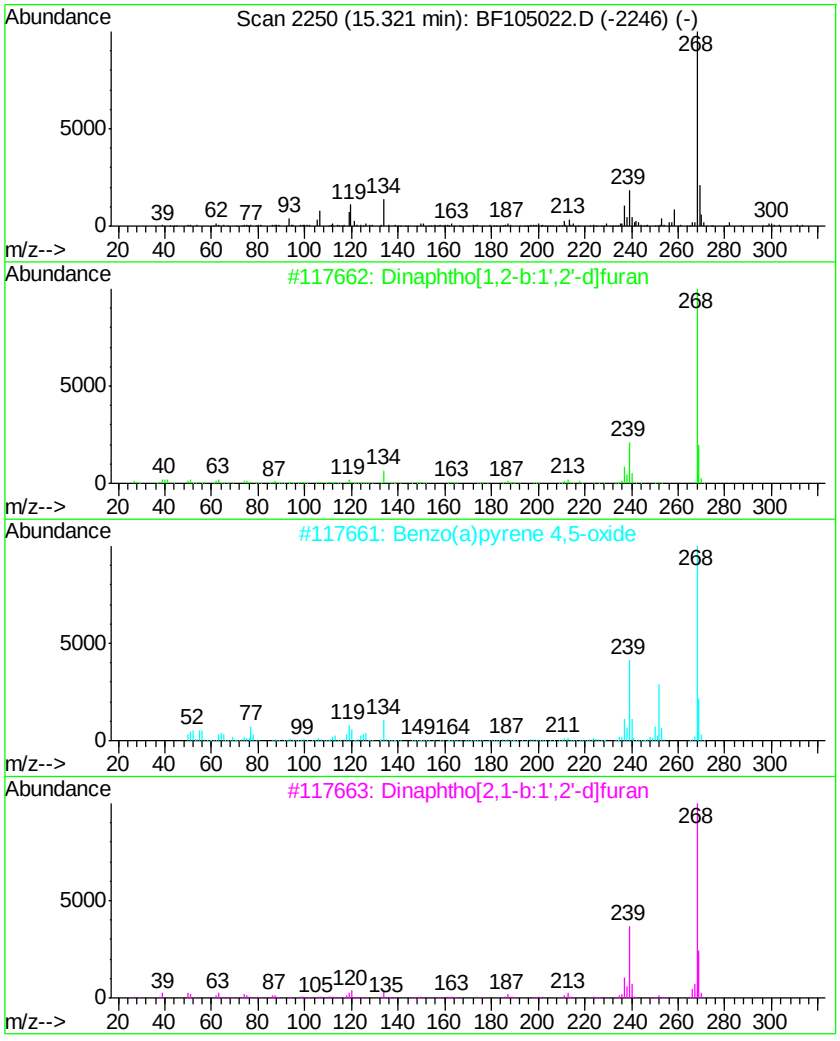
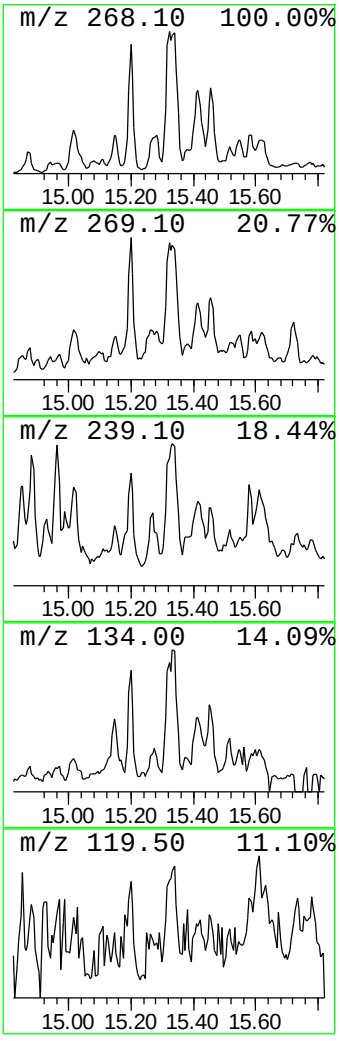
Peak Number 17 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.32	8.93 ng	221061	Perylene-d12	15.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	95
2	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	80
3	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	72
4	9,10-Anthracenedione, 1,4,5,8-te...	268	C14H12N4O2	002475-45-8	64
5	Benzo[c]pyren-6,7-diol, 4,5-dihy...	433	C29H23NO3	1000124-59-9	59





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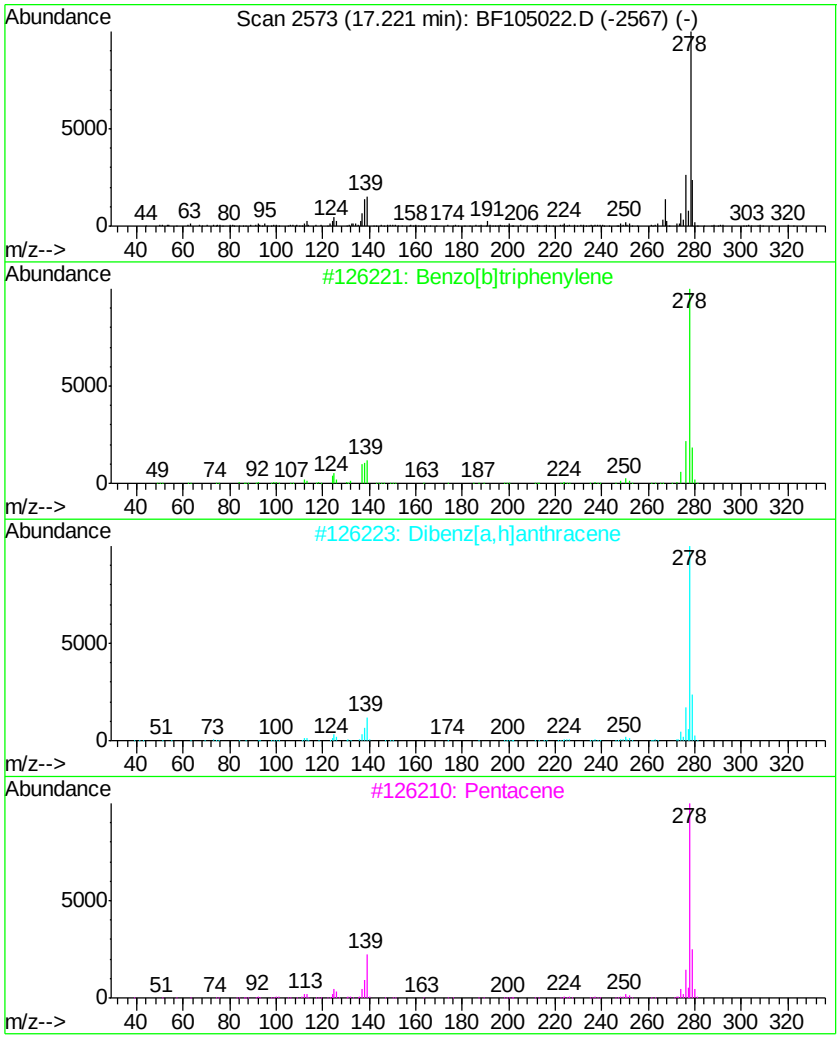
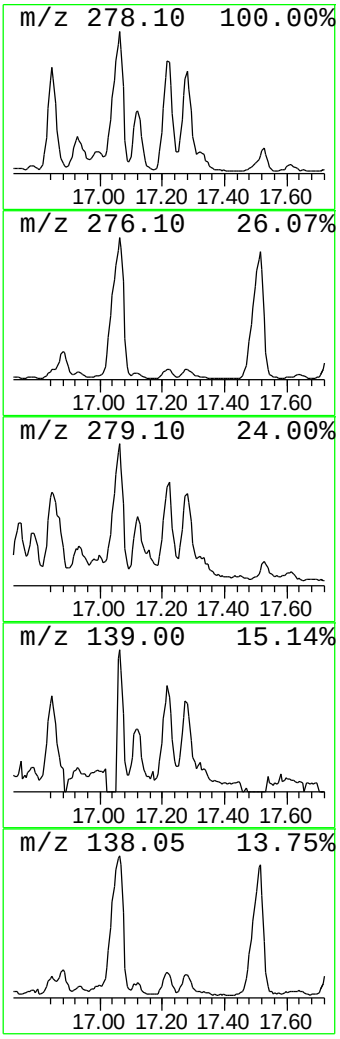
Peak Number 18 Benzo[b]triphenylene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.22	19.47 ng	482121	Perylene-d12	15.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
2	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	93
3	Pentacene	278	C22H14	000135-48-8	93
4	Benzo[b]chrysene	278	C22H14	000214-17-5	89
5	Picene	278	C22H14	000213-46-7	89





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Instrument : BNA_F
ClientSampleId : CL-02-043018-A

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TIC Integration Parameters: LSCINT.P

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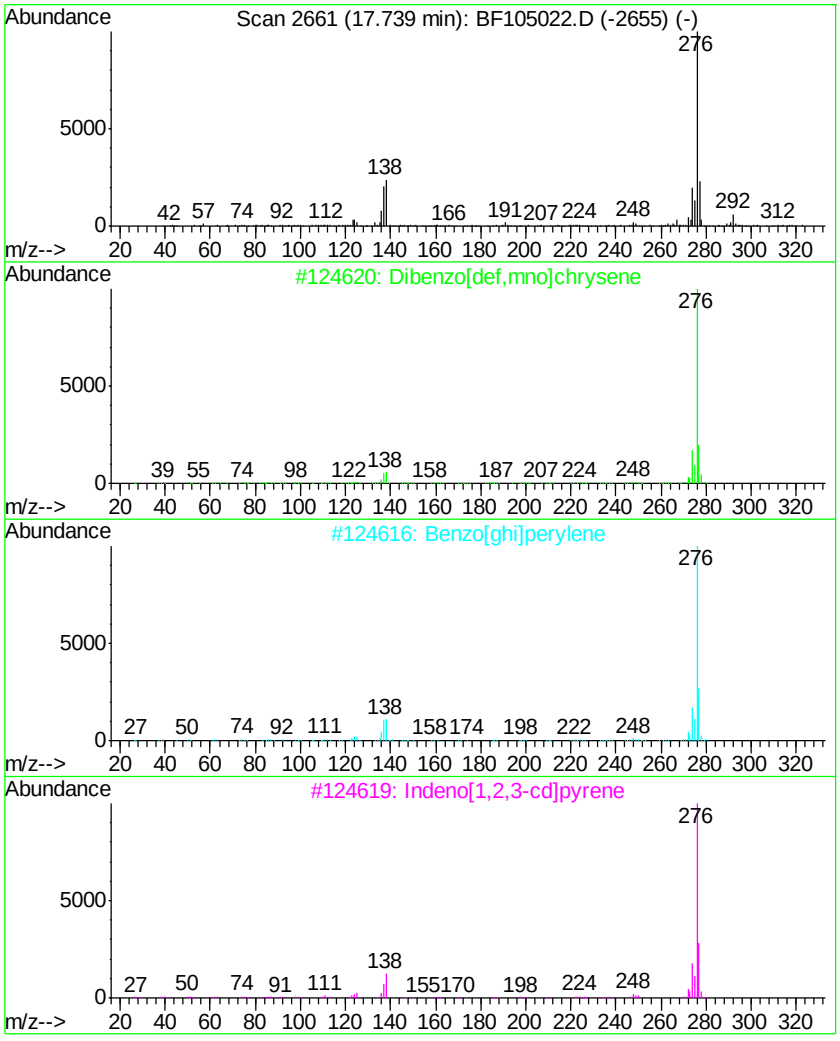
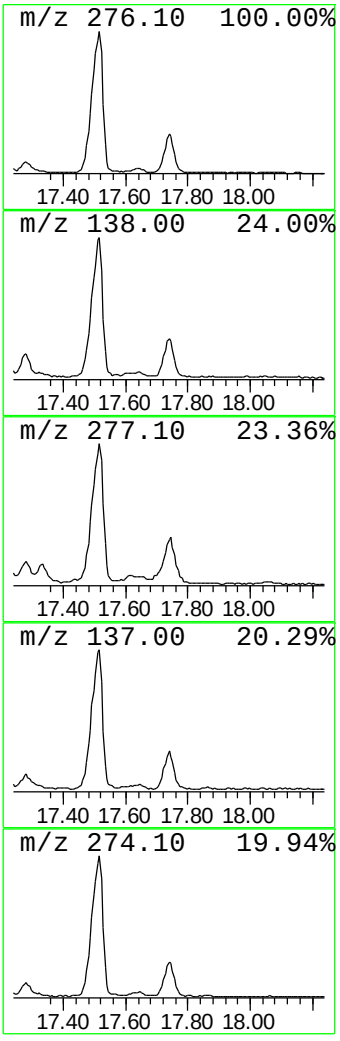
Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.74	28.41 ng	703304	Perylene-d12	15.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	97
2	Benzo[ghi]perylene	276	C22H12	000191-24-2	95
3	Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	93
4	Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	50
5	6H-Pyrido[4,3-b]carbazole, 9-met...	276	C18H16N2O	010371-86-5	47





Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050218\
Data File : BF105022.D
Acq On : 2 May 2018 11:24
Operator : JU/SJ
Sample : J2157-13 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument : BNA_F
ClientSampleId : CL-02-043018-A

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040618.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
unknown6.56	6.56	38.0	ng	1008770	1	6.79	530442	20.0
9H-Fluoren-9-one	11.13	11.4	ng	486763	4	11.32	852660	20.0
Naphtho[2,1-b]thi...	11.22	11.3	ng	482785	4	11.32	852660	20.0
Phenanthrene, 2-m...	11.82	22.8	ng	973852	4	11.32	852660	20.0
4H-Cyclopenta[def...	11.94	34.6	ng	1474070	4	11.32	852660	20.0
Anthracene, 9-met...	11.96	11.8	ng	504651	4	11.32	852660	20.0
Naphthalene, 2-ph...	12.12	15.1	ng	642937	4	11.32	852660	20.0
9,10-Anthracenedione	12.16	18.5	ng	787329	4	11.32	852660	20.0
9,10-Dimethylanth...	12.37	16.9	ng	721767	4	11.32	852660	20.0
Naphthalic anhydride	12.42	10.3	ng	439936	4	11.32	852660	20.0
Cyclopenta(def)ph...	12.47	14.3	ng	608903	4	11.32	852660	20.0
unknown14.87	14.87	9.3	ng	228951	6	15.56	495140	20.0
Benzo(a)pyrene, 7...	14.96	18.9	ng	466785	6	15.56	495140	20.0
Benzo[e]pyrene	15.24	30.0	ng	742260	6	15.56	495140	20.0
Dinaphtho[1,2-b:1...	15.32	8.9	ng	221061	6	15.56	495140	20.0
Benzo[b]triphenylene	17.22	19.5	ng	482121	6	15.56	495140	20.0
Dibenzo[def,mno]c...	17.74	28.4	ng	703304	6	15.56	495140	20.0