

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041218\
 Data File : BF104456.D
 Acq On : 12 Apr 2018 17:35
 Operator : JU/SJ
 Sample : J2163-03 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-041118-B

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

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	5.416	561	566	569	rBV	1665407	1447988	17.09%	1.051%
2	6.434	735	739	745	rBV	1522087	1472386	17.37%	1.069%
3	6.575	759	763	766	rBV	1808628	1504172	17.75%	1.092%
4	6.810	799	803	806	rVB	965659	802855	9.47%	0.583%
5	6.963	825	829	832	rBV	1456415	1164527	13.74%	0.845%
6	7.369	894	898	901	rBV	1035931	858861	10.13%	0.623%
7	8.092	1015	1021	1023	rBV	1319517	1130787	13.34%	0.821%
8	8.116	1023	1025	1028	rVB	739688	549069	6.48%	0.399%
9	8.804	1138	1142	1146	rVB	1254520	1081190	12.76%	0.785%
10	8.904	1154	1159	1163	rBV	1521260	1294245	15.27%	0.939%
11	9.169	1200	1204	1207	rVB	1867575	1500269	17.70%	1.089%
12	9.363	1235	1237	1243	rVB	427627	441400	5.21%	0.320%
13	9.439	1244	1250	1253	rBV	874302	1204468	14.21%	0.874%
14	9.510	1257	1262	1264	rBV	1478114	1474145	17.39%	1.070%
15	9.534	1264	1266	1269	rVB	1014639	721401	8.51%	0.524%
16	9.622	1278	1281	1283	rBV	695095	651802	7.69%	0.473%
17	9.710	1293	1296	1300	rVB	621923	531167	6.27%	0.386%
18	9.828	1313	1316	1318	rBV	454138	467231	5.51%	0.339%
19	9.851	1318	1320	1322	rVV	1192476	949248	11.20%	0.689%
20	9.886	1322	1326	1328	rVV	1953087	1786724	21.08%	1.297%
21	9.951	1334	1337	1342	rBV2	362887	483939	5.71%	0.351%
22	10.051	1350	1354	1358	rVV	1151762	1094900	12.92%	0.795%
23	10.092	1358	1361	1364	rVB	629301	518164	6.11%	0.376%
24	10.163	1370	1373	1376	rBV	479821	468072	5.52%	0.340%
25	10.257	1384	1389	1390	rBV	348520	417991	4.93%	0.303%
26	10.404	1409	1414	1418	rVV	2707143	2671056	31.52%	1.939%
27	10.463	1422	1424	1426	rVV	692553	655148	7.73%	0.475%
28	10.486	1426	1428	1430	rVV	670808	553142	6.53%	0.401%
29	10.551	1437	1439	1443	rVB	577476	584716	6.90%	0.424%
30	10.639	1448	1454	1457	rVV	1273067	1362785	16.08%	0.989%
31	10.763	1470	1475	1481	rVB3	349346	439768	5.19%	0.319%
32	10.945	1500	1506	1509	rVV2	1131770	1478506	17.45%	1.073%
33	10.975	1509	1511	1514	rVV2	792809	735972	8.68%	0.534%
34	11.028	1517	1520	1523	rVV	681232	700544	8.27%	0.508%

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

35	11.098	1529	1532	1537	rVV2	426011	585524	6.91%	0.425%
36	11.186	1544	1547	1552	rVV4	326585	546765	6.45%	0.397%
37	11.233	1552	1555	1561	rVB	1053587	1076805	12.71%	0.782%
38	11.345	1568	1574	1575	rBV	695077	875830	10.33%	0.636%
39	11.380	1575	1580	1583	rVV	4931940	7444112	87.84%	5.403%
40	11.428	1584	1588	1590	rVV	3223866	3067342	36.19%	2.226%
41	11.451	1590	1592	1594	rVV2	379558	397203	4.69%	0.288%
42	11.569	1609	1612	1615	rVV	418559	459263	5.42%	0.333%
43	11.633	1620	1623	1626	rVV	463929	456990	5.39%	0.332%
44	11.669	1626	1629	1634	rVB2	830739	886279	10.46%	0.643%
45	11.757	1640	1644	1647	rVB	561758	641340	7.57%	0.465%
46	11.851	1653	1660	1662	rBV	2411482	2756045	32.52%	2.000%
47	11.880	1662	1665	1668	rVB	3162771	2766587	32.65%	2.008%
48	11.922	1668	1672	1675	rBV	1307039	1374255	16.22%	0.997%
49	11.963	1675	1679	1681	rVV	3215449	3711173	43.79%	2.694%
50	11.986	1681	1683	1686	rVB	2302495	1663535	19.63%	1.207%
51	12.139	1701	1709	1712	rBV	1435228	1626069	19.19%	1.180%
52	12.169	1712	1714	1719	rVB3	622951	579499	6.84%	0.421%
53	12.286	1729	1734	1737	rBV2	710075	856579	10.11%	0.622%
54	12.322	1737	1740	1742	rBV	706867	640016	7.55%	0.465%
55	12.345	1742	1744	1747	rVB	555231	441396	5.21%	0.320%
56	12.398	1748	1753	1756	rBV	1613488	1956520	23.09%	1.420%
57	12.433	1756	1759	1761	rVV2	941872	1134463	13.39%	0.823%
58	12.486	1765	1768	1773	rBV3	771544	1178099	13.90%	0.855%
59	12.575	1777	1783	1786	rBV	4392062	6506561	76.78%	4.722%
60	12.710	1799	1806	1808	rBV3	487537	665715	7.86%	0.483%
61	12.810	1815	1823	1826	rBV3	4562267	8474675	100.00%	6.151%
62	12.839	1826	1828	1832	rVB2	680496	728736	8.60%	0.529%
63	12.904	1836	1839	1841	rBV2	386983	396098	4.67%	0.287%
64	12.927	1841	1843	1845	rBV	942932	743634	8.77%	0.540%
65	13.010	1850	1857	1860	rBV2	1213940	1963597	23.17%	1.425%
66	13.092	1868	1871	1873	rBV4	824838	1057206	12.47%	0.767%
67	13.122	1873	1876	1879	rVB	2215313	2320366	27.38%	1.684%
68	13.186	1879	1887	1890	rBV	1868833	2350949	27.74%	1.706%
69	13.227	1890	1894	1896	rBV2	1855039	1896196	22.37%	1.376%
70	13.322	1906	1910	1912	rBV	1312634	1276375	15.06%	0.926%
71	13.351	1912	1915	1917	rVB	1387782	1164311	13.74%	0.845%

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72	13.604	1954	1958	1960	rBV4	505993	756538	8.93%	0.549%
73	13.627	1960	1962	1966	rVB2	670571	788409	9.30%	0.572%
74	13.739	1976	1981	1984	rBV2	989439	1463902	17.27%	1.062%
75	13.769	1984	1986	1988	rVB	989958	725409	8.56%	0.526%
76	13.792	1988	1990	1993	rBV2	630621	610013	7.20%	0.443%
77	13.839	1996	1998	2001	rVB	462440	435032	5.13%	0.316%
78	13.992	2016	2024	2027	rBV2	3294178	5737927	67.71%	4.165%
79	14.027	2027	2030	2036	rVB	3155734	3953478	46.65%	2.869%
80	14.104	2040	2043	2046	rVB	870453	604109	7.13%	0.438%
81	14.139	2046	2049	2053	rBV3	327837	420039	4.96%	0.305%
82	14.221	2058	2063	2065	rVV3	328367	506122	5.97%	0.367%
83	14.310	2075	2078	2081	rVV3	314348	403652	4.76%	0.293%
84	14.345	2081	2084	2086	rVV	531011	638993	7.54%	0.464%
85	14.386	2086	2091	2093	rVV	1479708	2072738	24.46%	1.504%
86	14.416	2093	2096	2099	rVV	1095570	1111219	13.11%	0.807%
87	14.480	2099	2107	2109	rVV3	857491	1594963	18.82%	1.158%
88	14.510	2109	2112	2114	rVV2	906040	1037099	12.24%	0.753%
89	14.533	2114	2116	2119	rVV	925175	794418	9.37%	0.577%
90	14.574	2119	2123	2129	rVV3	480039	733664	8.66%	0.532%
91	14.716	2145	2147	2153	rVB3	270242	420932	4.97%	0.306%
92	14.874	2171	2174	2178	rVV2	294328	435431	5.14%	0.316%
93	15.045	2196	2203	2206	rBV	1800637	3504612	41.35%	2.544%
94	15.145	2216	2220	2224	rVB	491916	529978	6.25%	0.385%
95	15.345	2248	2254	2259	rVB	1337574	1891152	22.32%	1.373%
96	15.410	2259	2265	2269	rBV	1857468	2580817	30.45%	1.873%
97	15.463	2270	2274	2277	rVV	439543	608881	7.18%	0.442%
98	15.498	2277	2280	2286	rVB3	552600	823701	9.72%	0.598%
99	16.927	2516	2523	2530	rVB2	679762	1446667	17.07%	1.050%
100	17.374	2591	2599	2607	rVB	603696	1286369	15.18%	0.934%

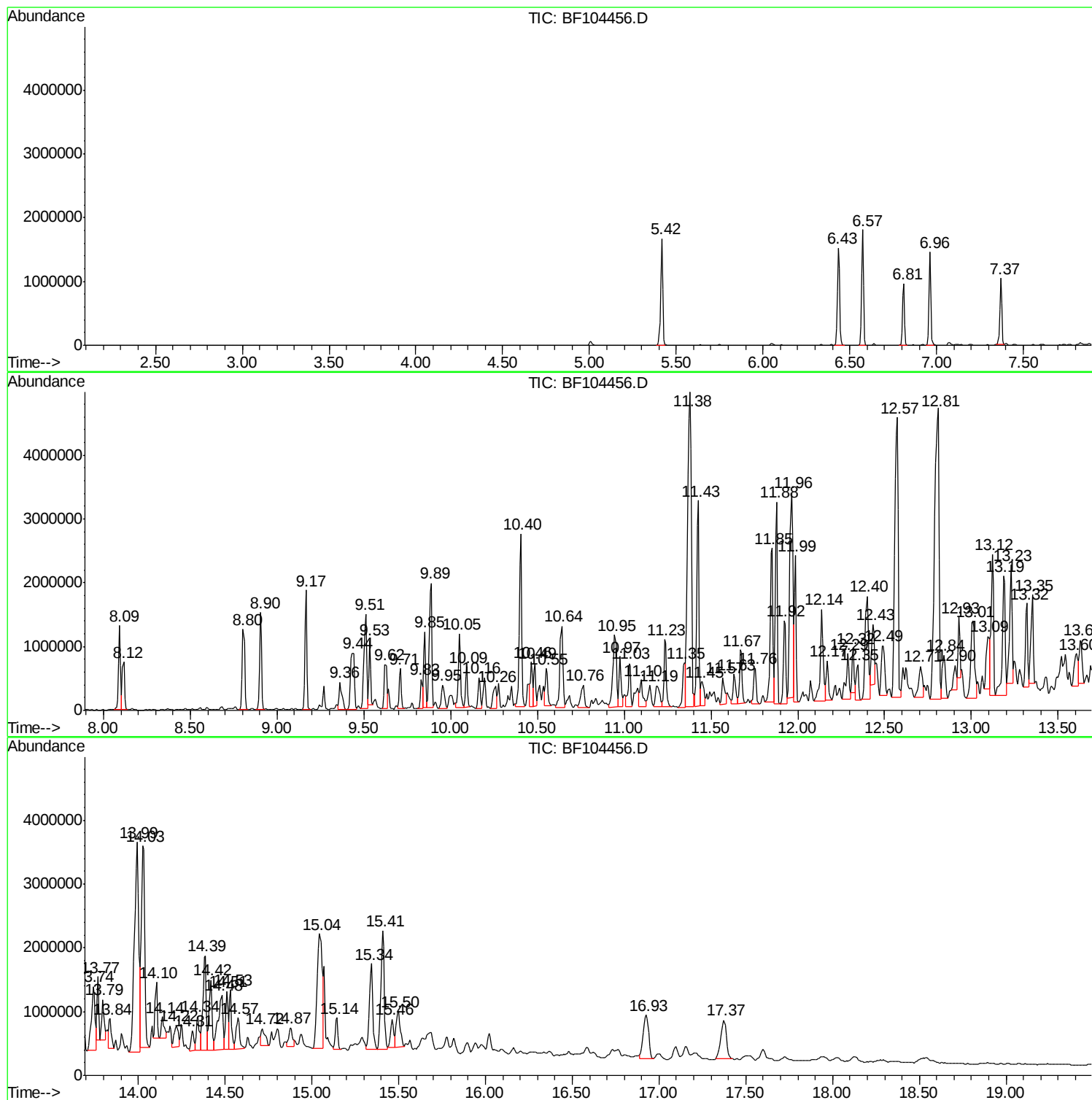
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Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
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ClientSampleId :
PL-01-041118-B

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



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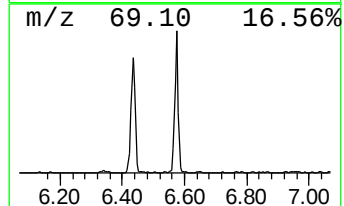
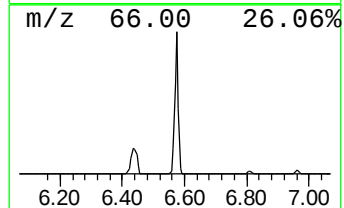
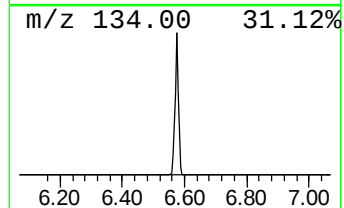
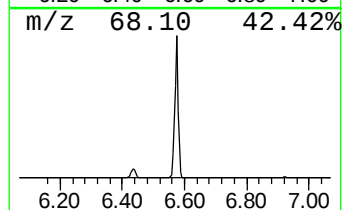
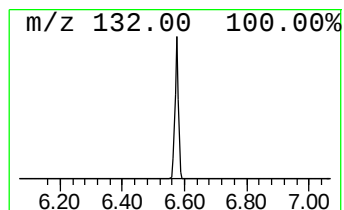
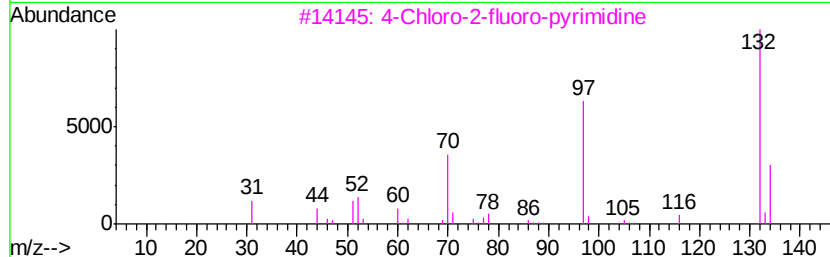
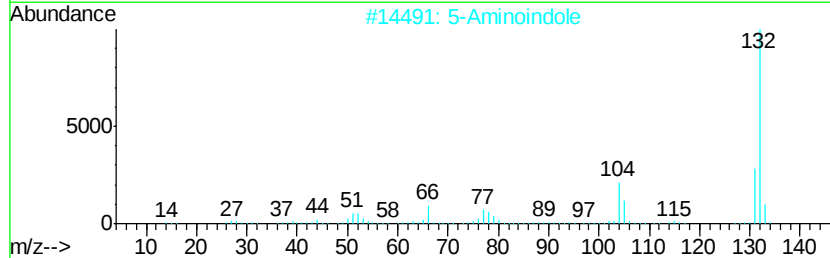
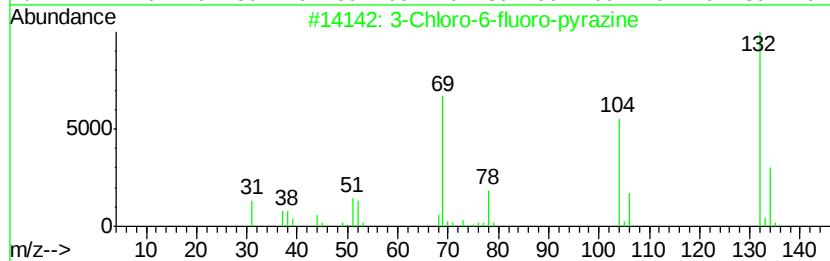
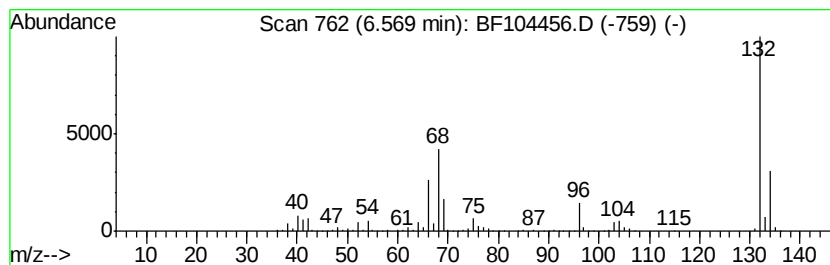
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 unknown6.57 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.57	37.47 ng	1504170	1,4-Dichlorobenzene-d4	6.81

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
2			5-Aminoindole	132	C8H8N2	005192-03-0	12
3			4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9
4			5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9
5			4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	9



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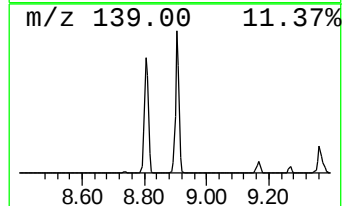
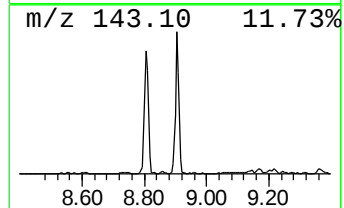
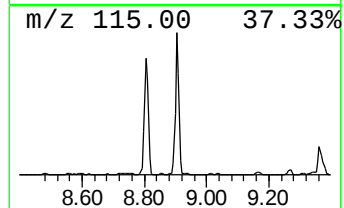
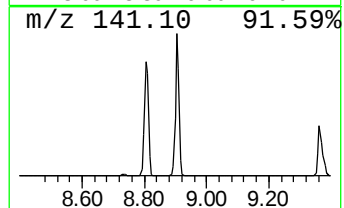
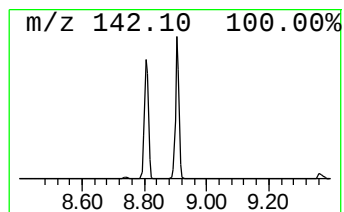
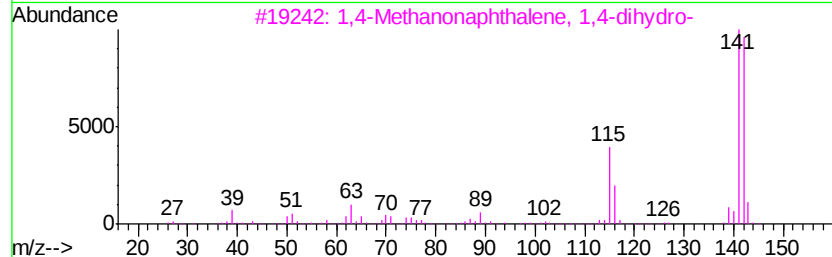
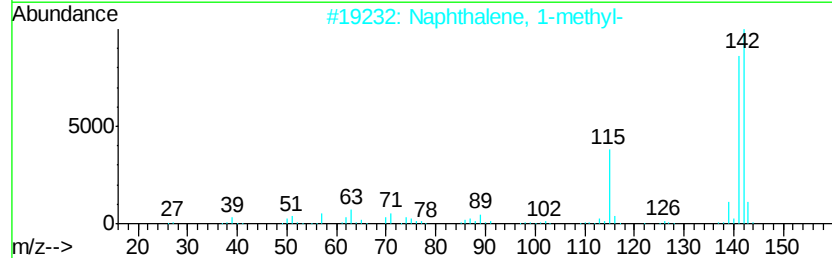
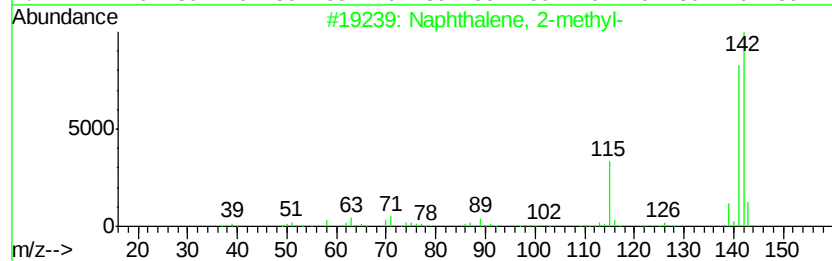
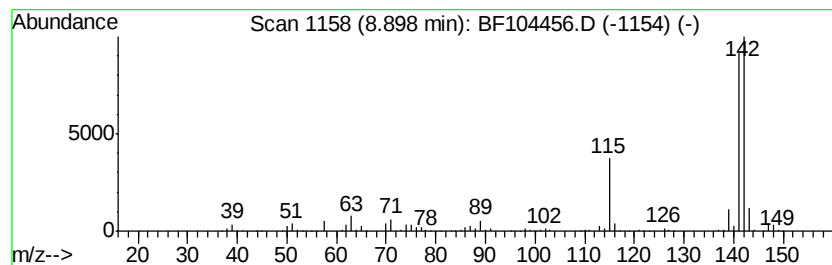
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Peak Number 3 Naphthalene, 1-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.		
8.90	22.89 ng	1294250	Naphthalene-d8	8.09		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
2		Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
3		1,4-Methanonaphthalene, 1,4-dihv...	142	C11H10	004453-90-1	91
4		Benzocycloheptatriene	142	C11H10	000264-09-5	91
5		1H-Indene, 1-ethylidene-	142	C11H10	002471-83-2	64



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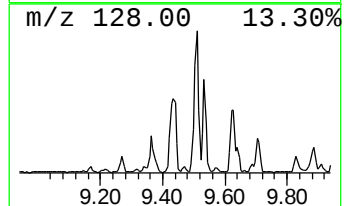
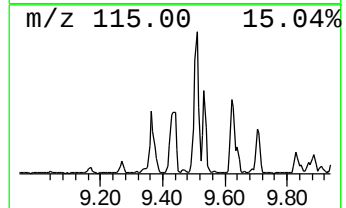
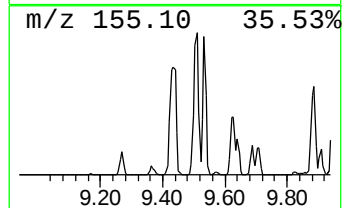
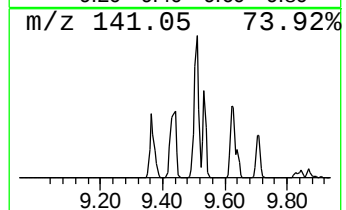
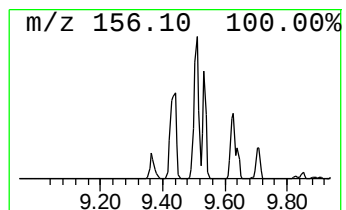
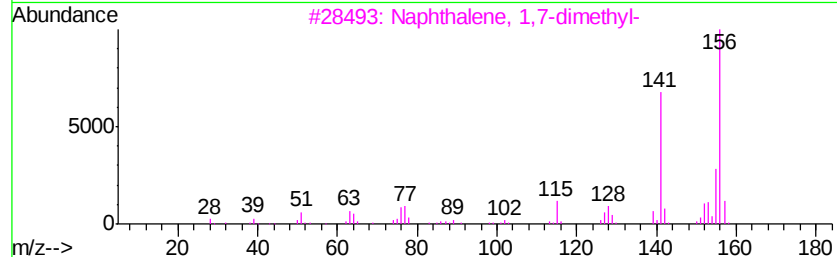
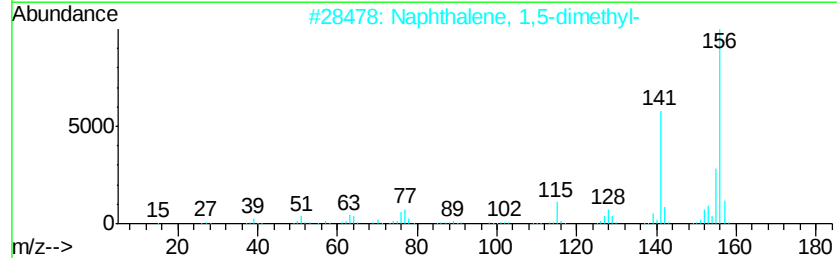
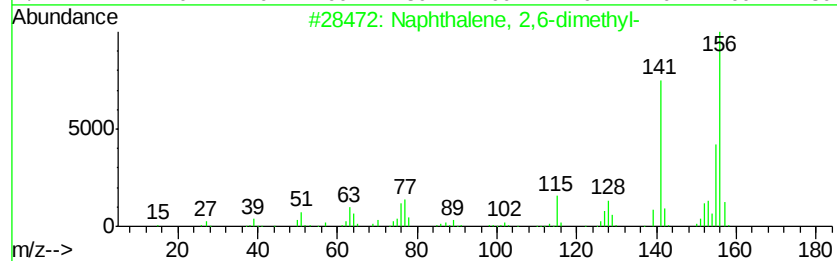
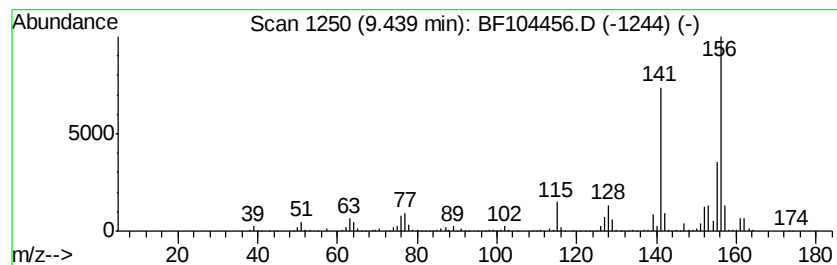
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Naphthalene, 2,6-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.44	25.38 ng	1204470	Acenaphthene-d10	9.85

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
2		Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
3		Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
4		Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
5		Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041218\
Data File : BF104456.D
Acq On : 12 Apr 2018 17:35
Operator : JU/SJ
Sample : J2163-03 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PL-01-041118-B

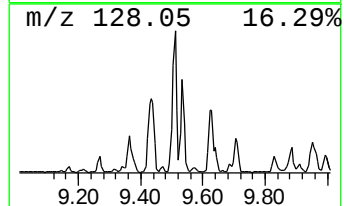
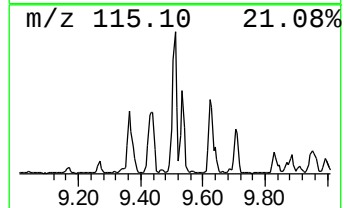
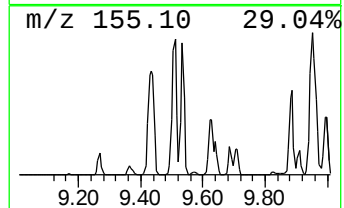
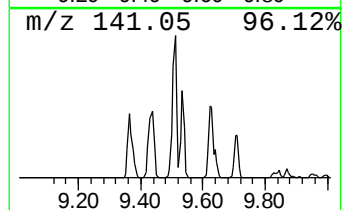
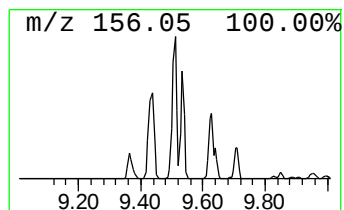
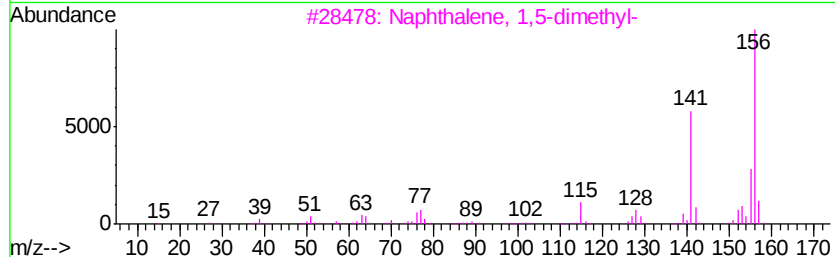
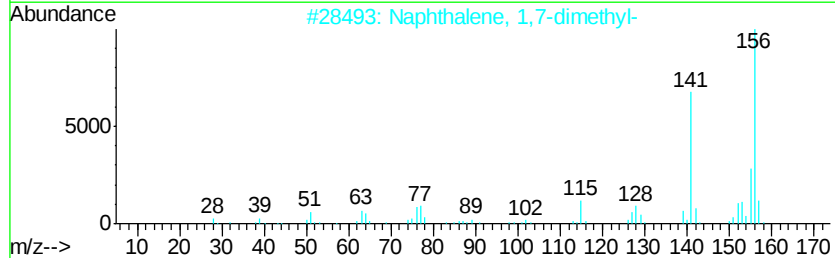
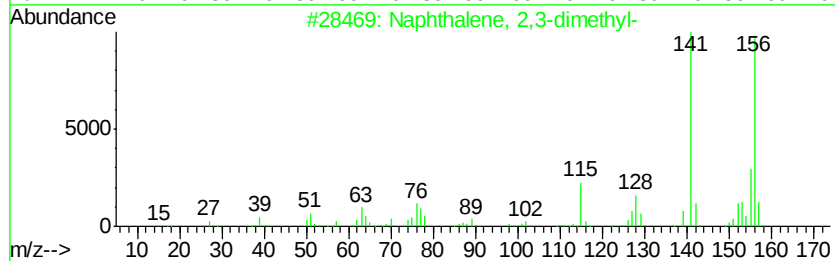
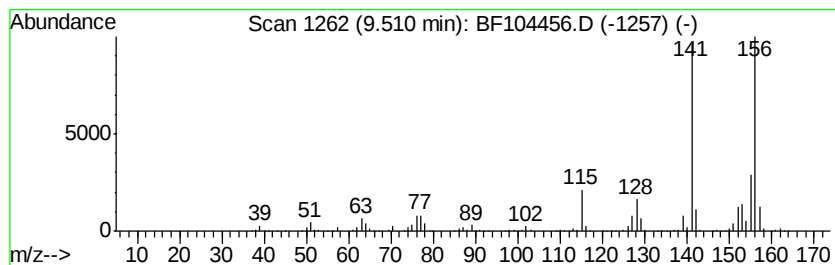
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Naphthalene, 2,3-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.51	31.06 ng	1474150	Acenaphthene-d10	9.85

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2		Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
3		Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
4		Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
5		Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96



Data Path : Z:\HPCHEM1\BNA F\DATA\BF041218\
Data File : BF104456.D
Acq On : 12 Apr 2018 17:35
Operator : JU/SJ
Sample : J2163-03 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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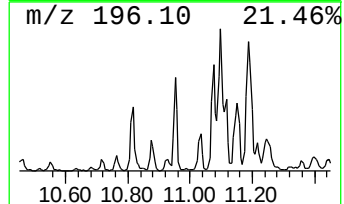
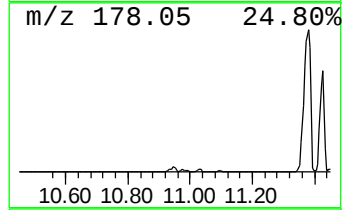
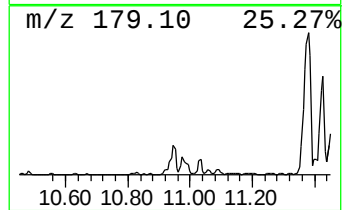
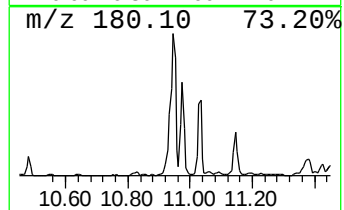
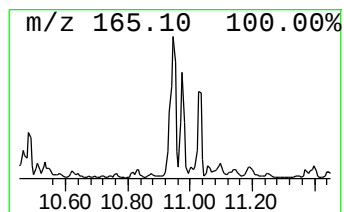
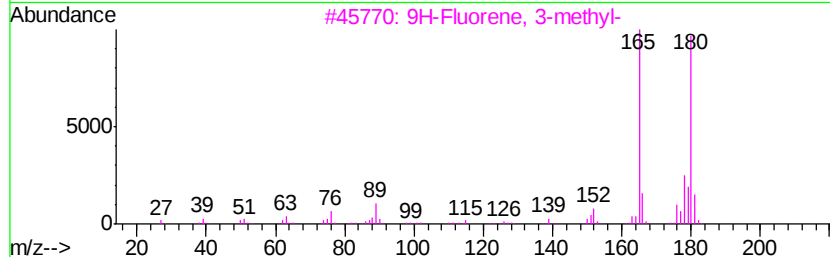
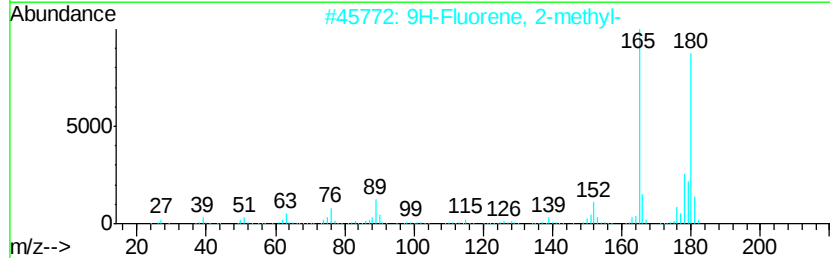
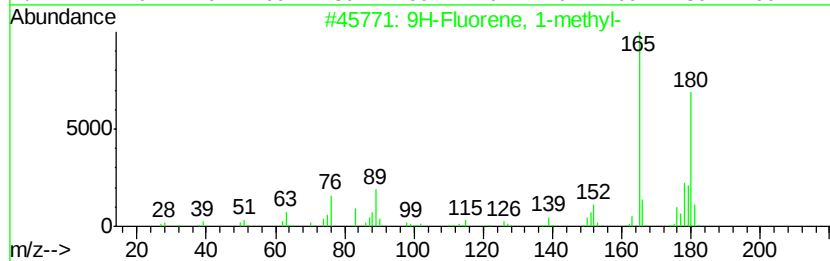
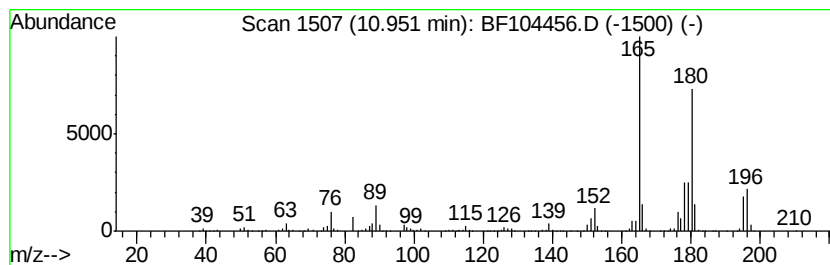
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 9H-Fluorene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.95	33.76 ng	1478510	Phenanthrene-d10	11.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
2		9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
3		9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	94
4		9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	93
5		9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	60



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041218\
Data File : BF104456.D
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Operator : JU/SJ
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ClientSampleId :
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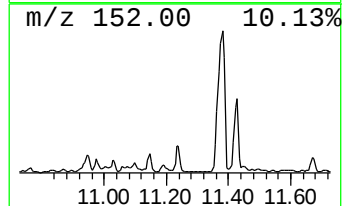
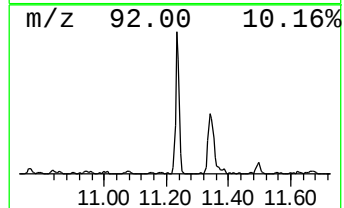
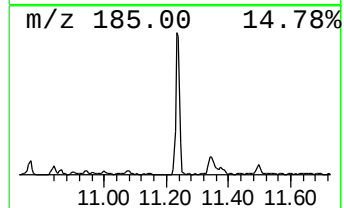
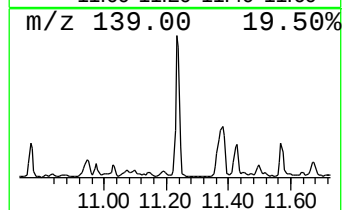
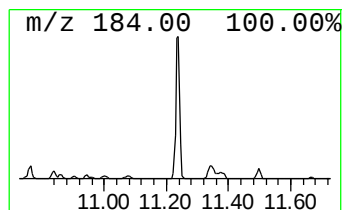
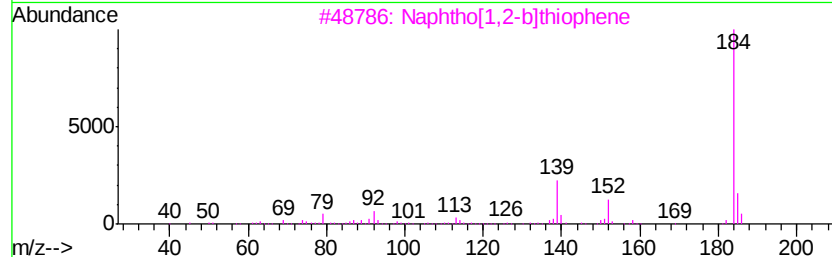
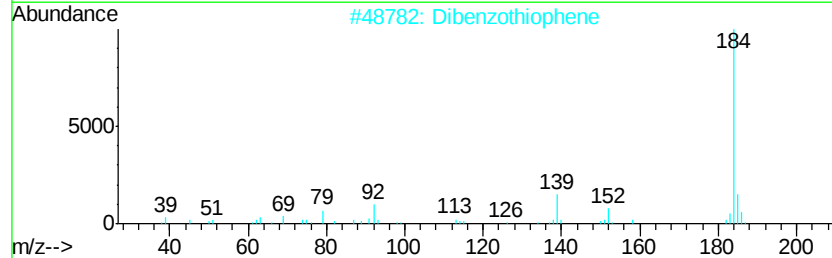
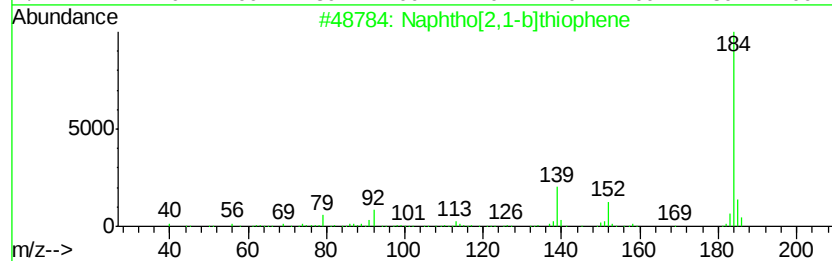
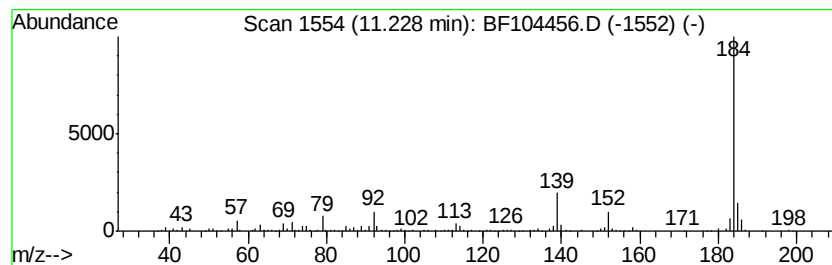
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Naphtho[2,1-b]thiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.23	24.59 ng	1076810	Phenanthrene-d10	11.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	96
2		Dibenzothiophene	184	C12H8S	000132-65-0	96
3		Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
4		Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
5		Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041218\
Data File : BF104456.D
Acq On : 12 Apr 2018 17:35
Operator : JU/SJ
Sample : J2163-03 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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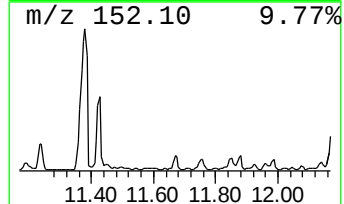
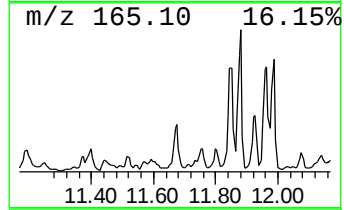
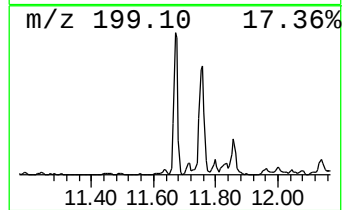
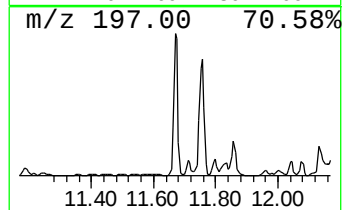
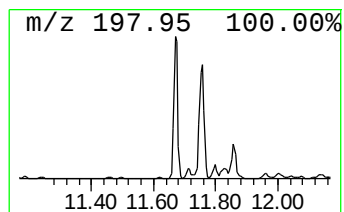
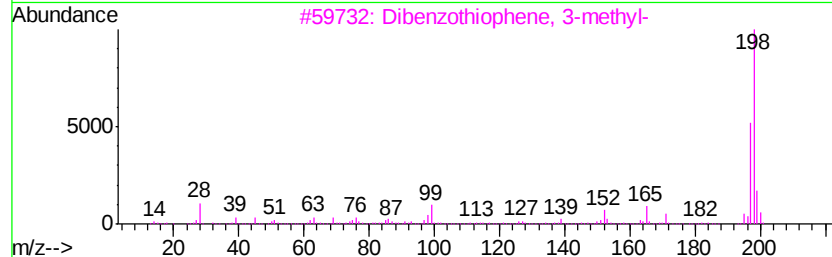
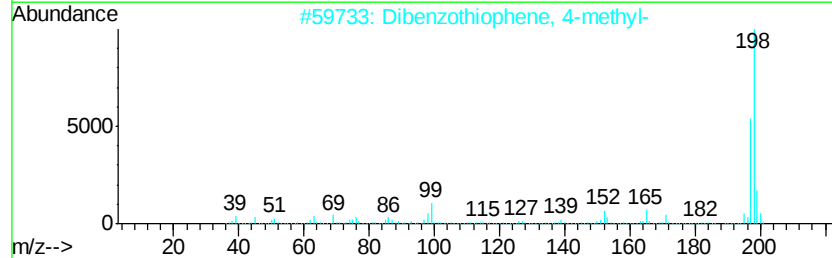
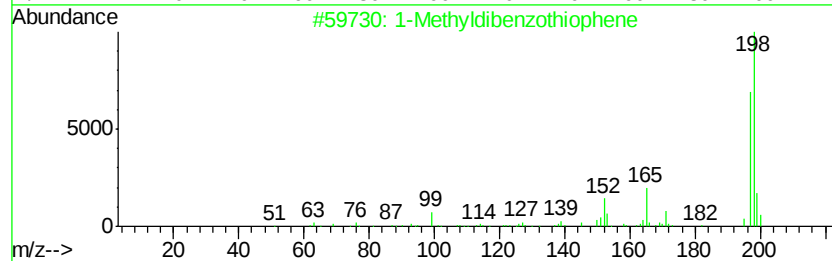
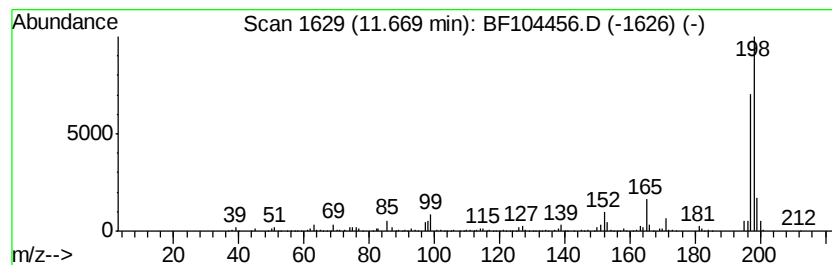
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 1-Methyldibenzothiophene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.67	20.24 ng	886279	Phenanthrene-d10	11.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	97
2		Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	96
3		Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	96
4		Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	83
5		4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	80



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041218\
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Sample : J2163-03 2X
Misc :
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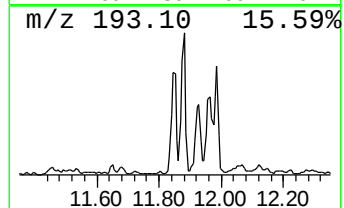
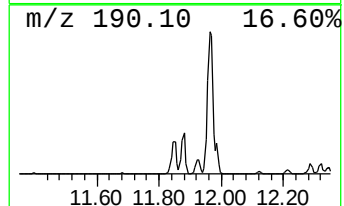
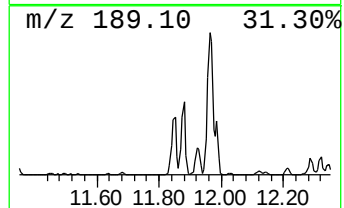
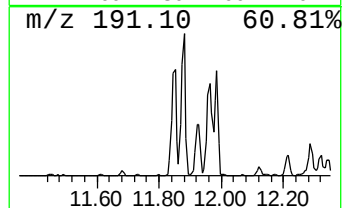
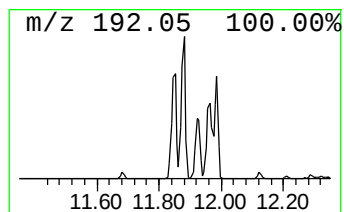
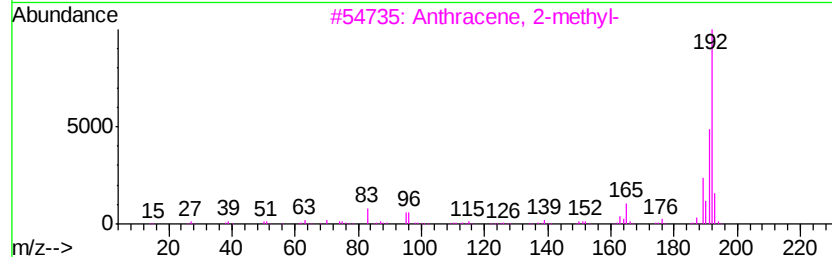
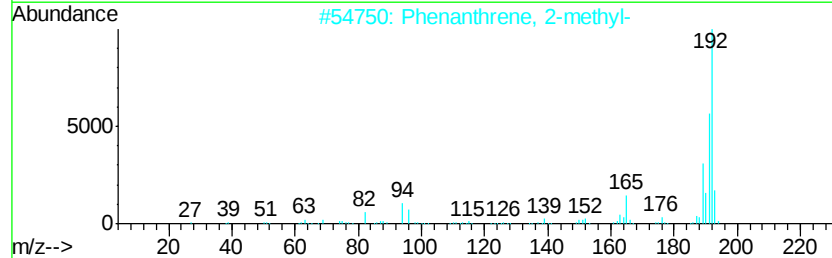
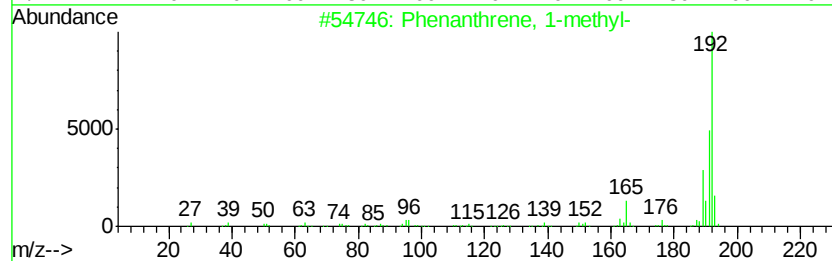
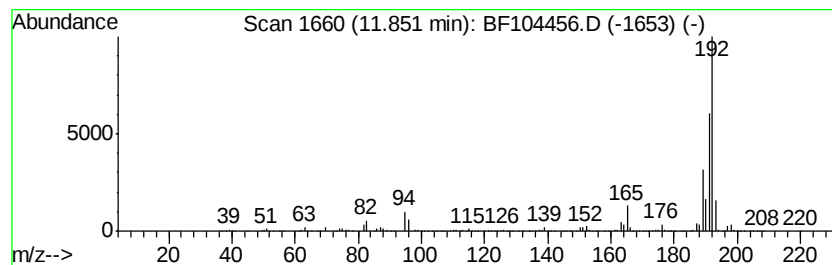
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.		
11.85	62.94 ng	2756050	Phenanthrene-d10	11.35		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96	
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93	
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93	
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91	
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90	



Data Path : Z:\HPCHEM1\BNA F\DATA\BF041218\
Data File : BF104456.D
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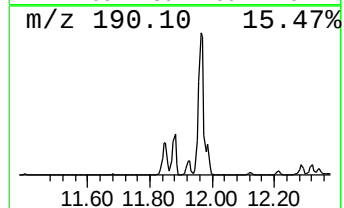
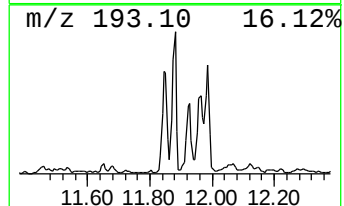
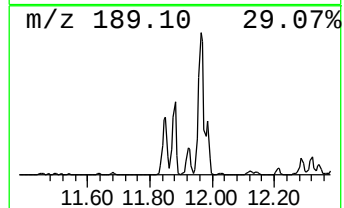
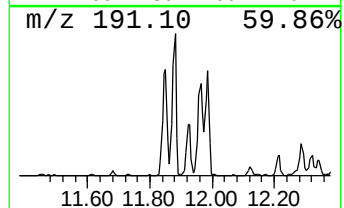
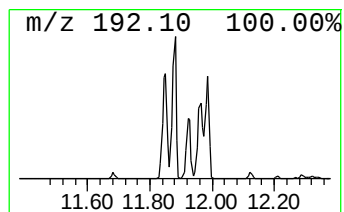
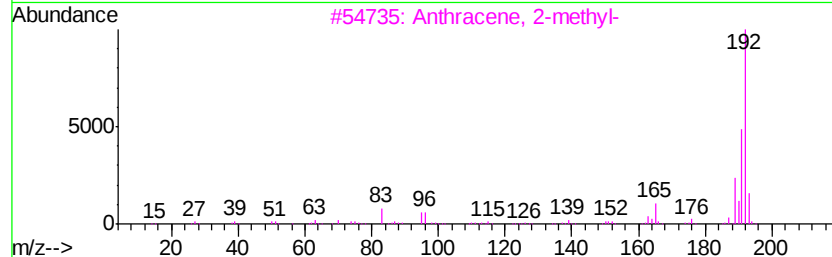
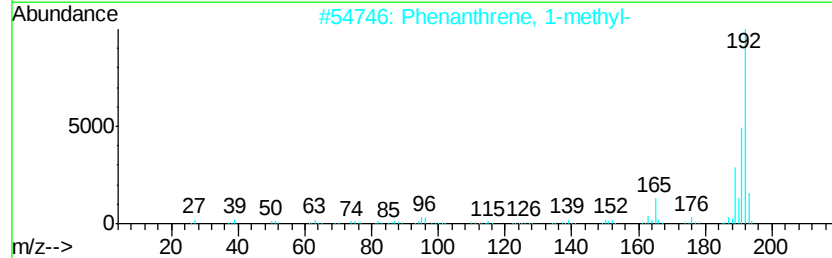
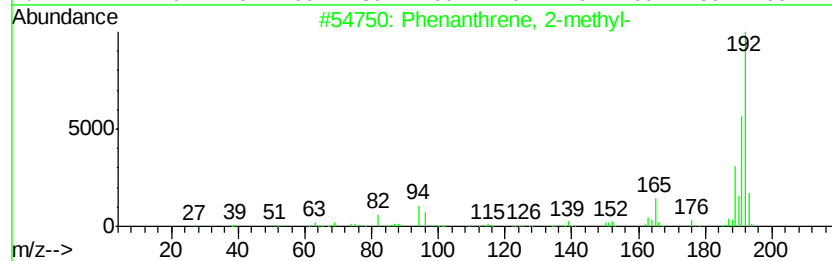
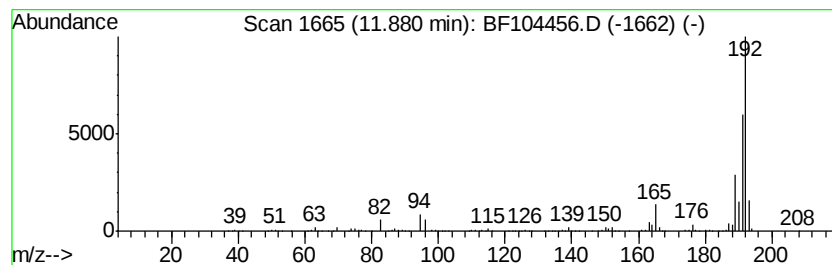
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.88	63.18 ng	2766590	Phenanthrene-d10	11.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3		Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4		1H-Cyclopropa[1,1]phenanthrene, 1a,...	192	C15H12	000949-41-7	95
5		Anthracene, 1-methyl-	192	C15H12	000610-48-0	95



Data Path : Z:\HPCHEM1\BNA F\DATA\BF041218\
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Sample : J2163-03 2X
Misc :
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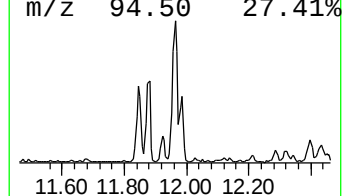
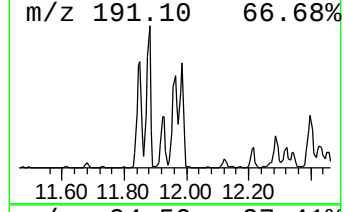
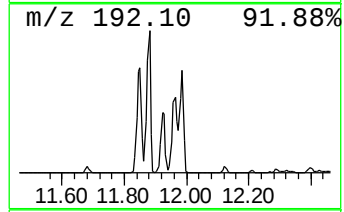
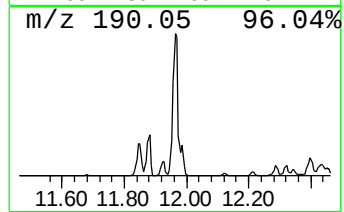
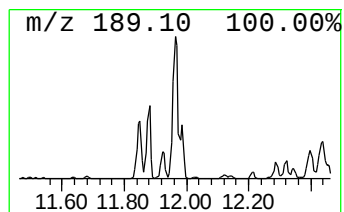
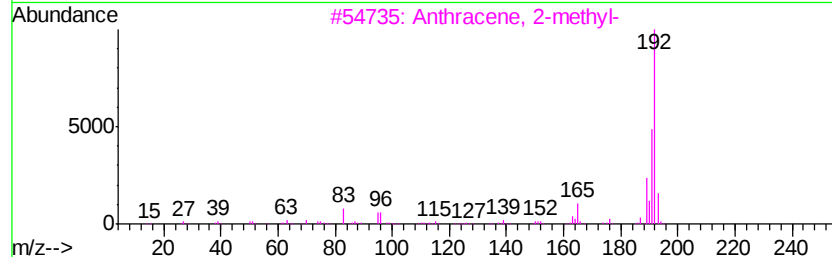
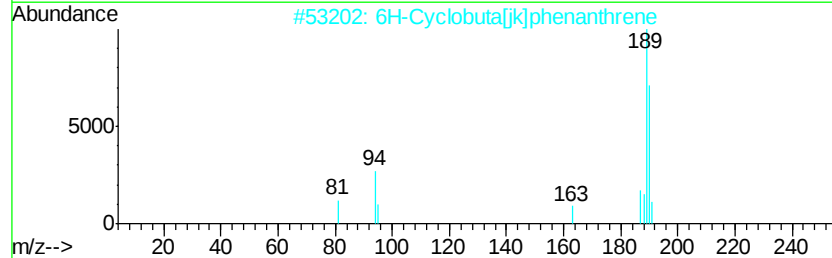
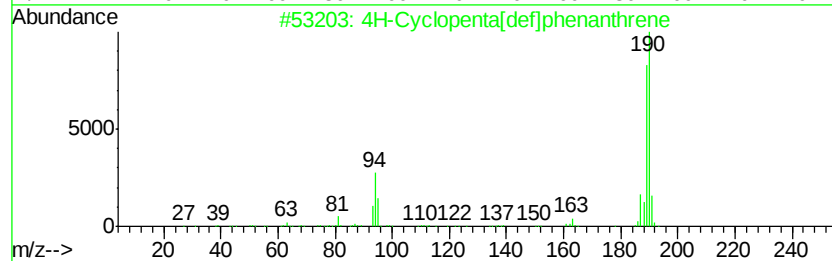
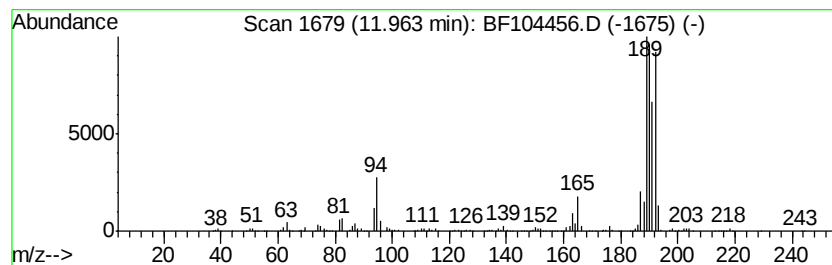
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ClientSampleId :
PL-01-041118-B

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 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.96	84.75 ng	3711170	Phenanthrene-d10	11.35	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
2	6H-Cyclobuta[i]kphenanthrene	190	C15H10	083469-43-6	52
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	42
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	42
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	42



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041218\
Data File : BF104456.D
Acq On : 12 Apr 2018 17:35
Operator : JU/SJ
Sample : J2163-03 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PL-01-041118-B

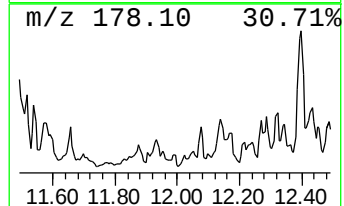
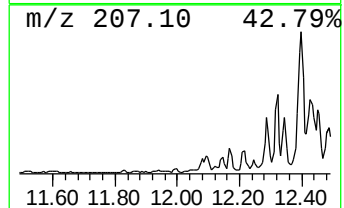
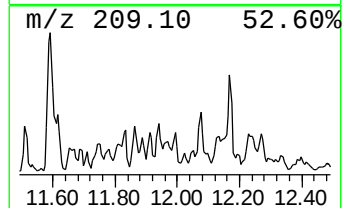
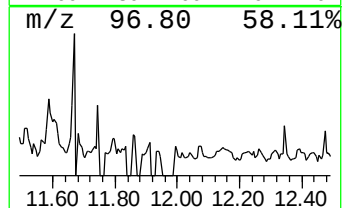
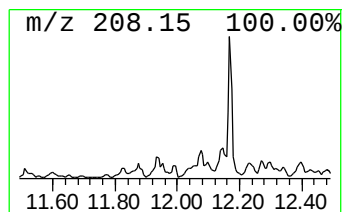
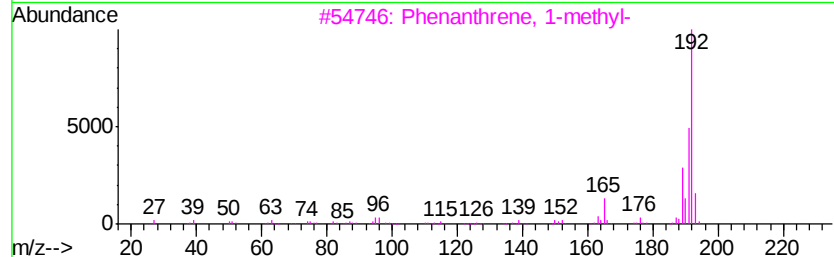
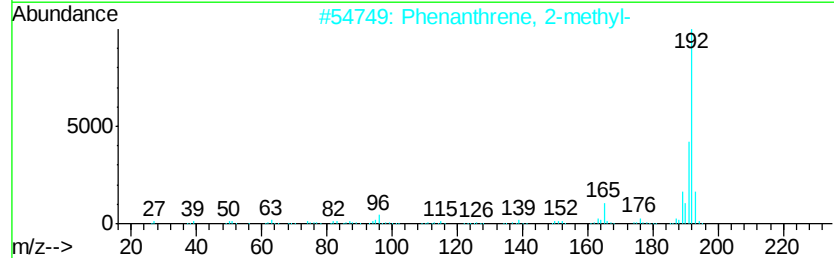
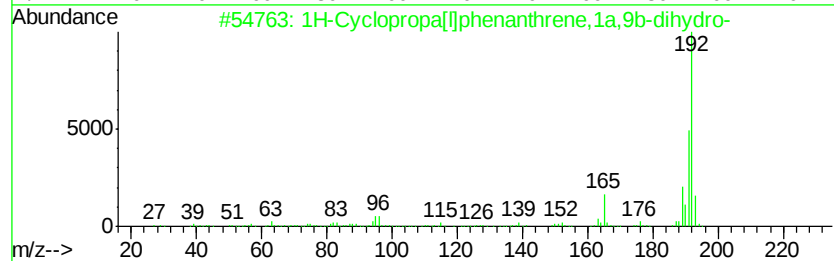
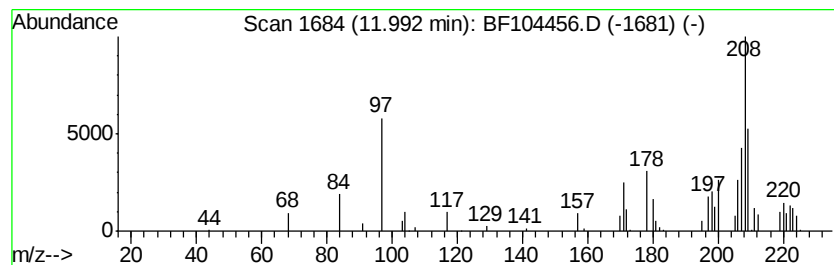
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 1H-Cyclopropa[l]phenanthren... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	37.99 ng	1663540	Phenanthrene-d10	11.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1H-Cyclopropa[l]phenanthrene, 1a, ...	192	C15H12	000949-41-7	95
2		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
3		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
4		Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
5		Anthracene, 9-methyl-	192	C15H12	000779-02-2	91



Data Path : Z:\HPCHEM1\BNA F\DATA\BF041218\
Data File : BF104456.D
Acq On : 12 Apr 2018 17:35
Operator : JU/SJ
Sample : J2163-03 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PL-01-041118-B

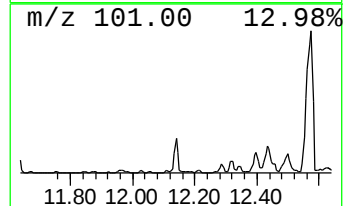
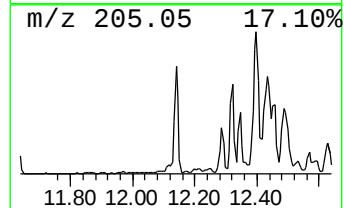
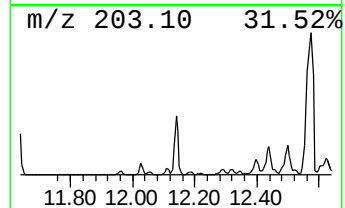
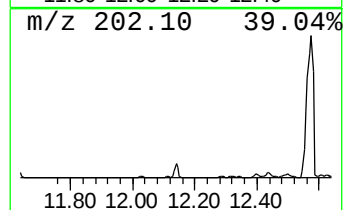
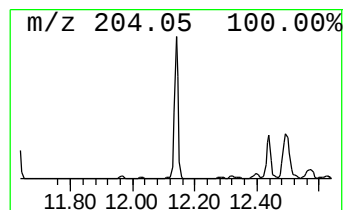
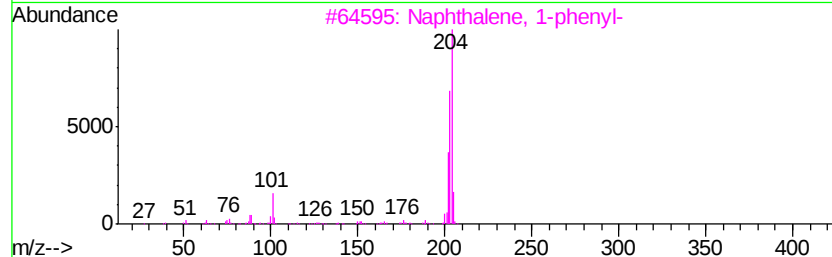
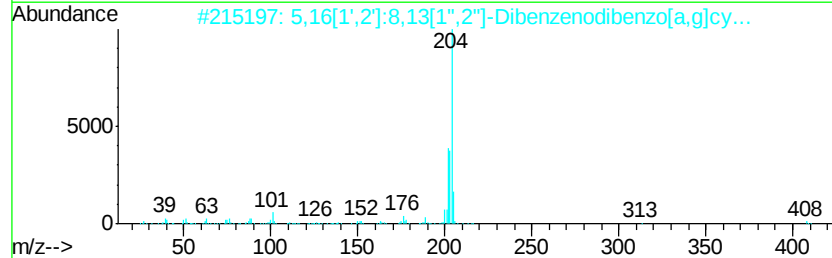
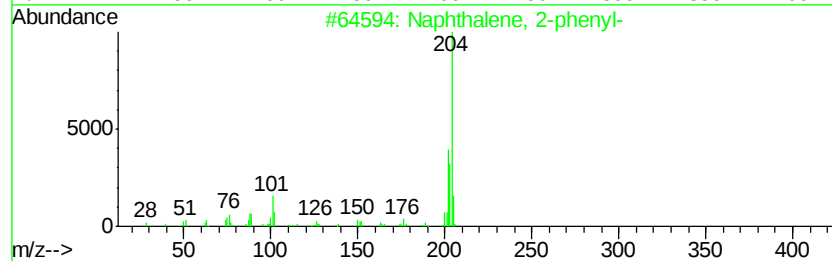
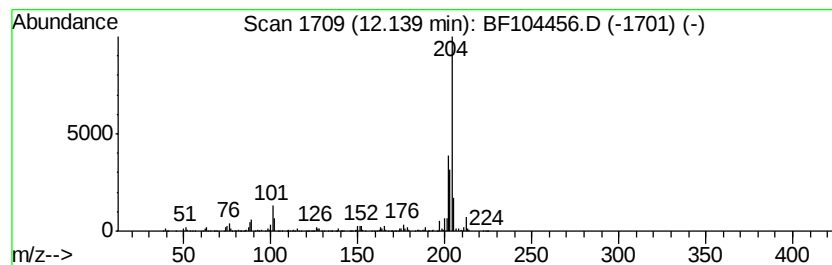
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Naphthalene, 2-phenyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.14	37.13 ng	1626070	Phenanthrene-d10	11.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	96
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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF041218\
Data File : BF104456.D
Acq On : 12 Apr 2018 17:35
Operator : JU/SJ
Sample : J2163-03 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
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ClientSampleId :
PL-01-041118-B

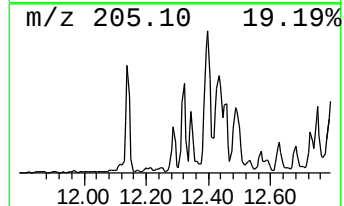
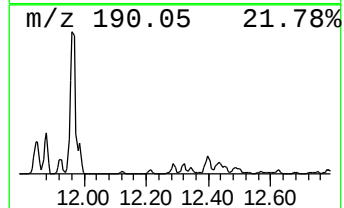
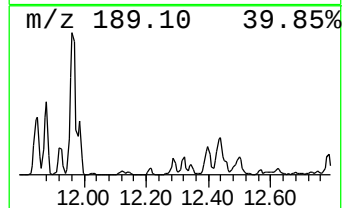
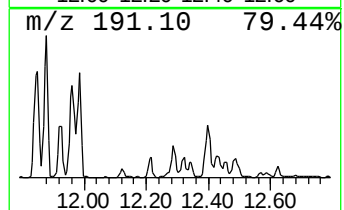
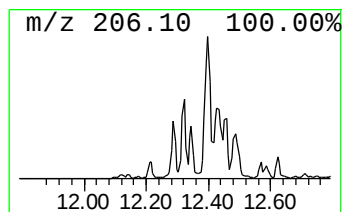
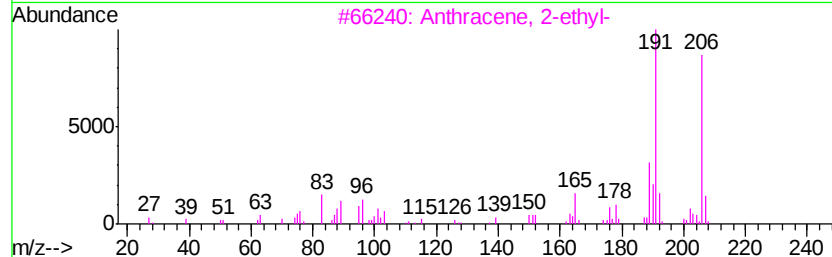
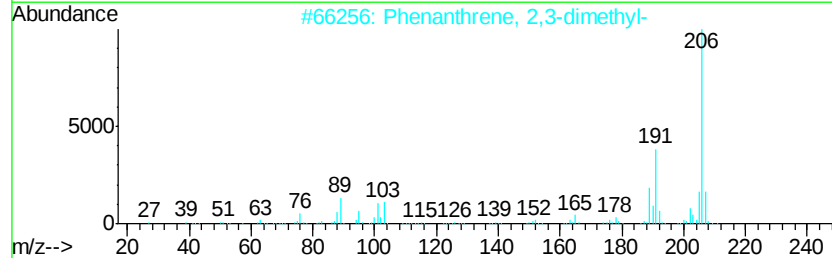
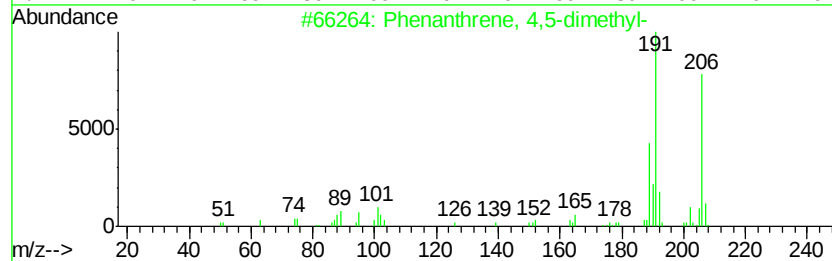
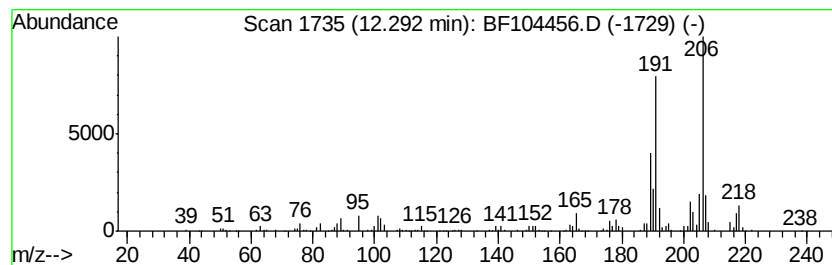
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Phenanthrene, 4,5-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	19.56 ng	856579	Phenanthrene-d10	11.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
2		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
3		Anthracene, 2-ethyl-	206	C16H14	052251-71-5	90
4		Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	86
5		9,10-Dimethylantracene	206	C16H14	000781-43-1	81



Data Path : Z:\HPCHEM1\BNA F\DATA\BF041218\
Data File : BF104456.D
Acq On : 12 Apr 2018 17:35
Operator : JU/SJ
Sample : J2163-03 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
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ClientSampleId :
PL-01-041118-B

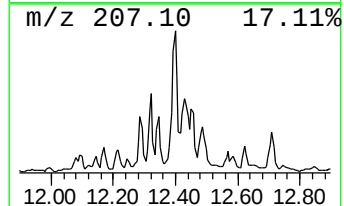
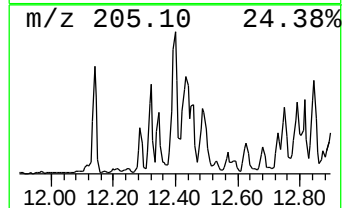
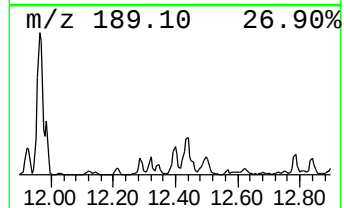
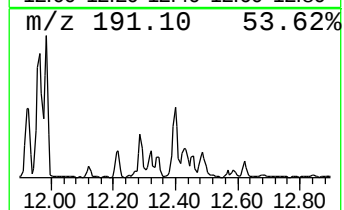
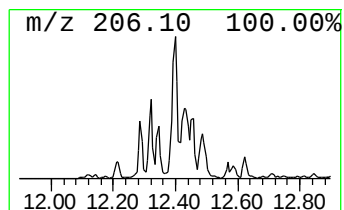
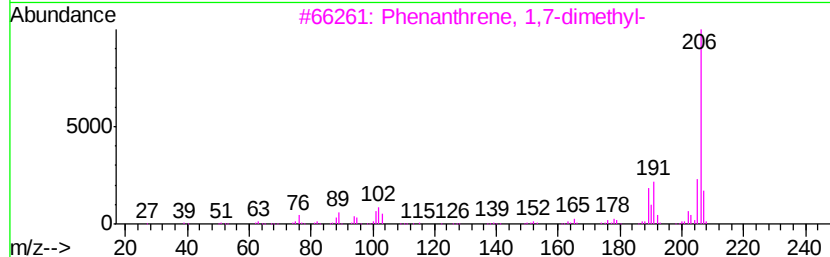
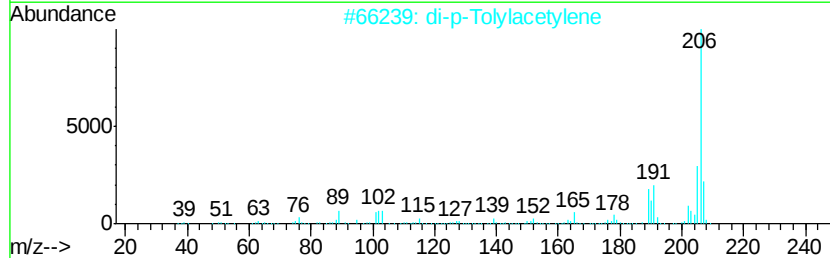
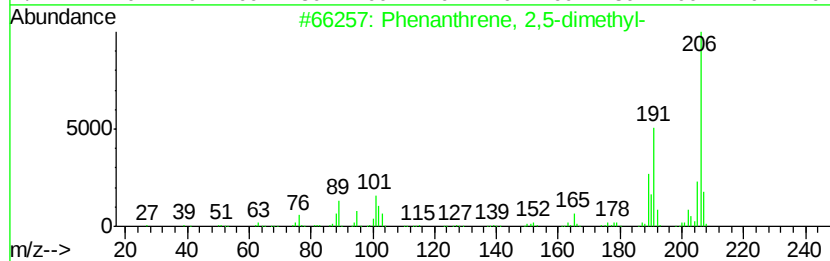
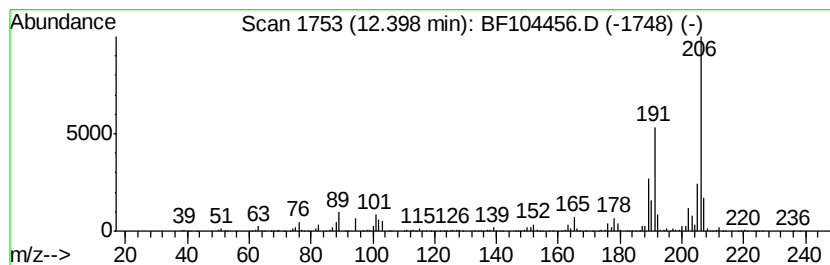
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Phenanthrene, 2,5-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	44.68 ng	1956520	Phenanthrene-d10	11.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2		di-p-Tolylacetylene	206	C16H14	002789-88-0	95
3		Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
4		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
5		Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	91



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041218\
Data File : BF104456.D
Acq On : 12 Apr 2018 17:35
Operator : JU/SJ
Sample : J2163-03 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
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ClientSampleId :
PL-01-041118-B

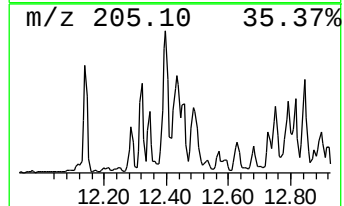
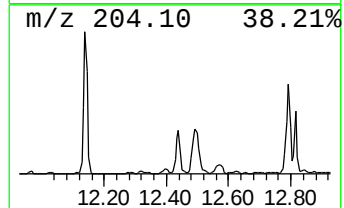
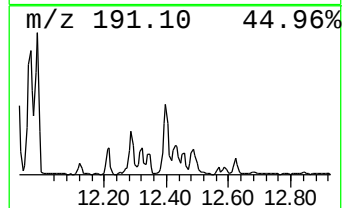
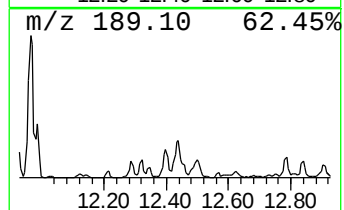
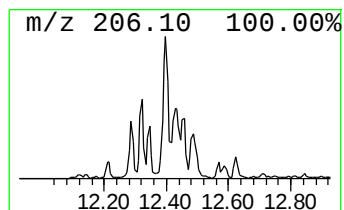
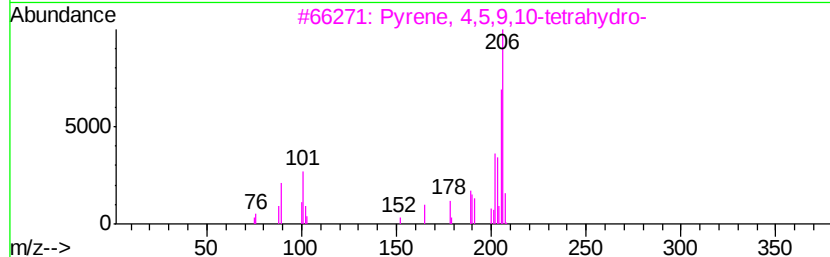
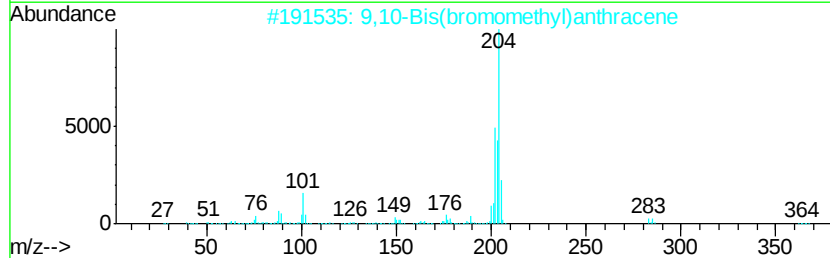
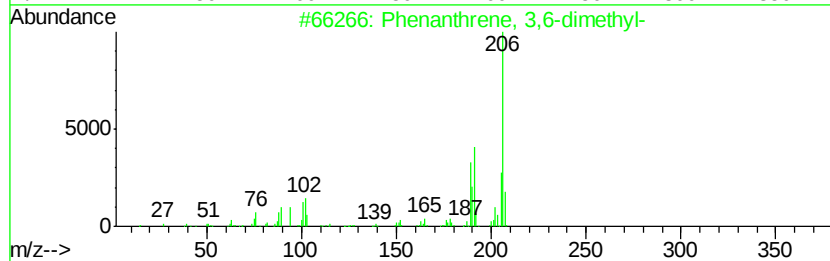
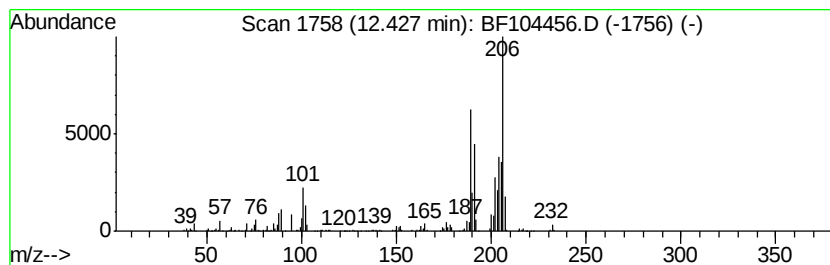
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 unknown12.43 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	25.91 ng	1134460	Phenanthrene-d10	11.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	38
2		9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	38
3		Pvrene, 4,5,9,10-tetrahydro-	206	C16H14	000781-17-9	30
4		1,3-Butadiene, 1,4-diphenyl-, (E...	206	C16H14	000538-81-8	30
5		5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	27



Data Path : Z:\HPCHEM1\BNA F\DATA\BF041218\
Data File : BF104456.D
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Operator : JU/SJ
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Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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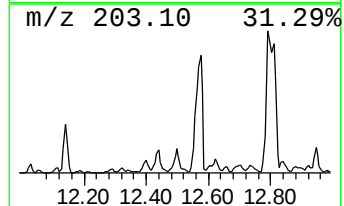
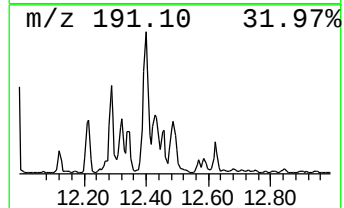
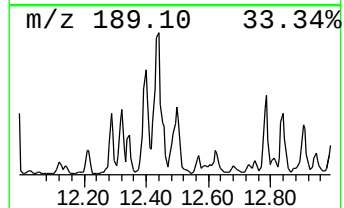
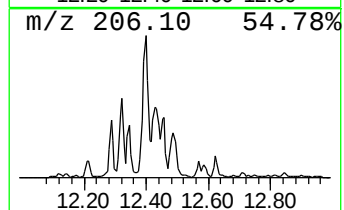
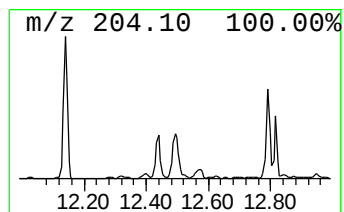
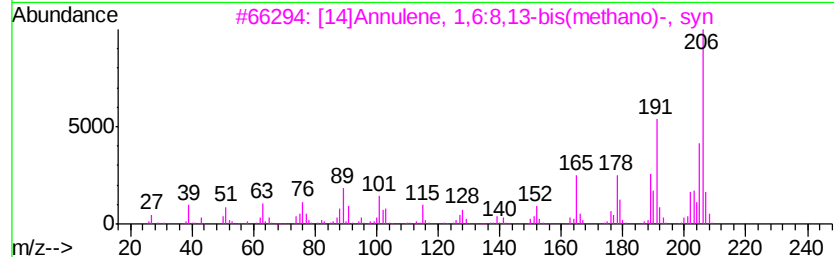
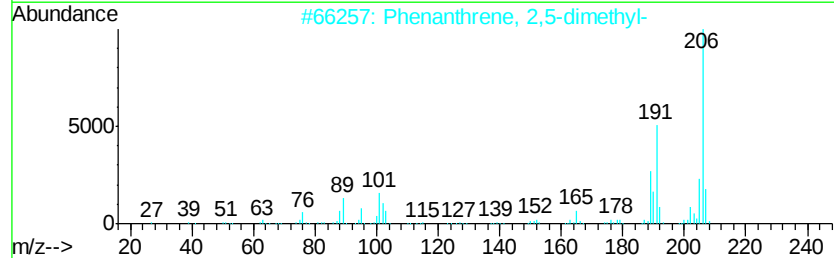
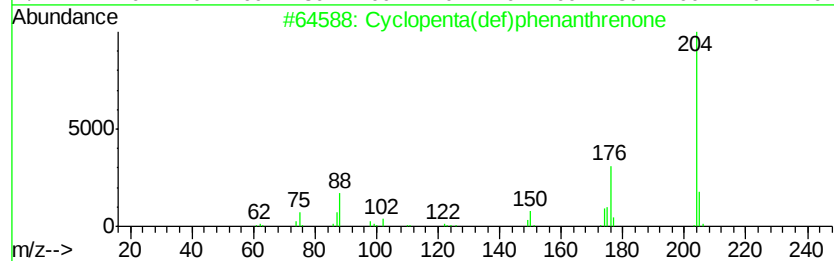
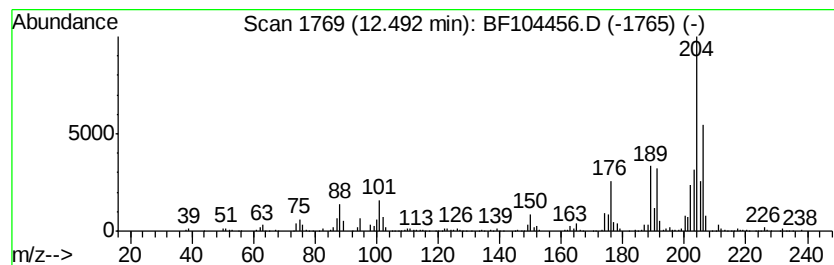
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Cyclopenta(def)phenanthrenone Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.49	26.90 ng	1178100	Phenanthrene-d10	11.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	86
2		Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	70
3		[14]Annulene, 1,6:8,13-bis(metha...	206	C16H14	085385-68-8	55
4		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	50
5		Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	50



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041218\
Data File : BF104456.D
Acq On : 12 Apr 2018 17:35
Operator : JU/SJ
Sample : J2163-03 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PL-01-041118-B

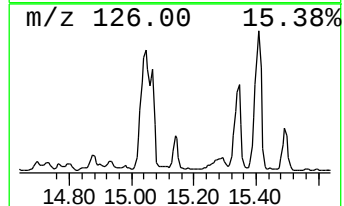
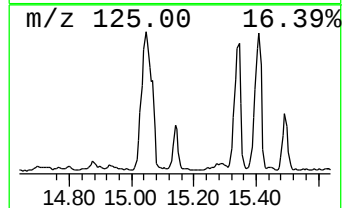
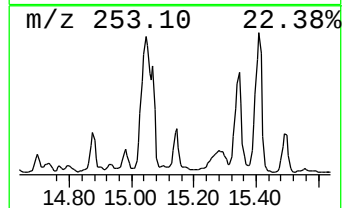
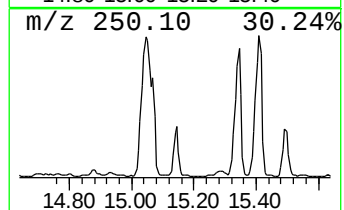
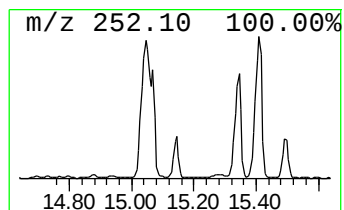
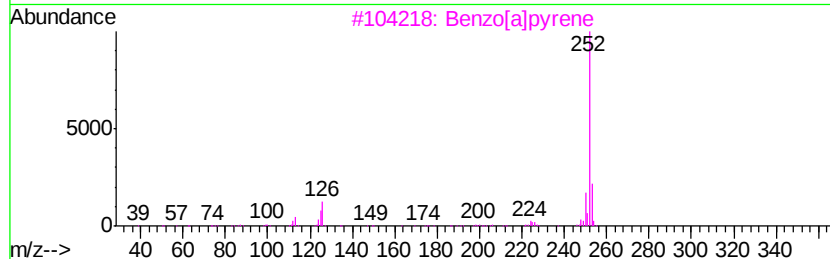
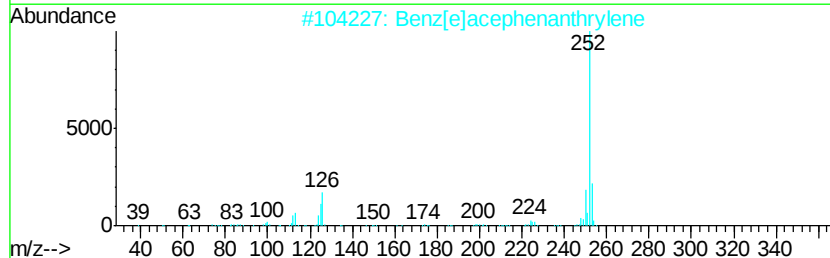
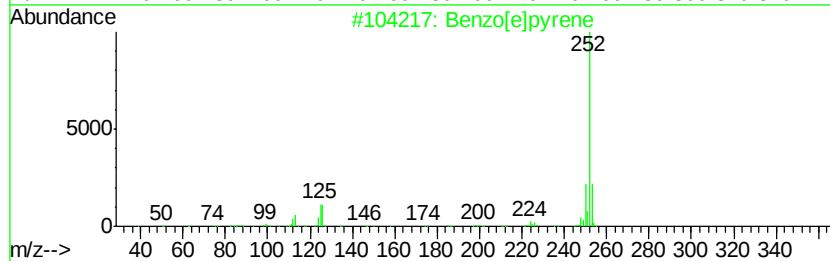
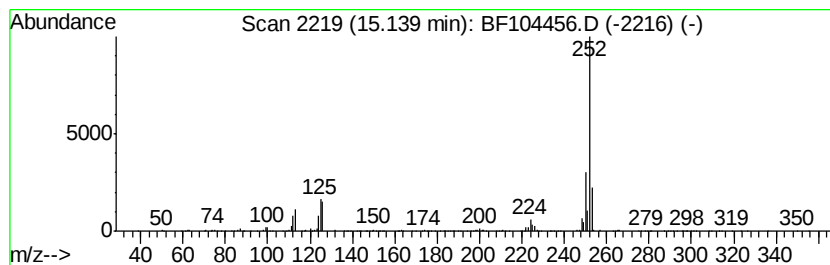
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Benzo[e]pyrene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.14	17.41 ng	529978	Perylene-d12	15.46

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	93
2		Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	93
3		Benzo[a]pyrene	252	C20H12	000050-32-8	93
4		Benzo[k]fluoranthene	252	C20H12	000207-08-9	91
5		Perylene	252	C20H12	000198-55-0	87



Data Path : Z:\HPCHEM1\BNA F\DATA\BF041218\
Data File : BF104456.D
Acq On : 12 Apr 2018 17:35
Operator : JU/SJ
Sample : J2163-03 2X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PL-01-041118-B

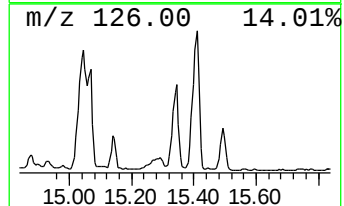
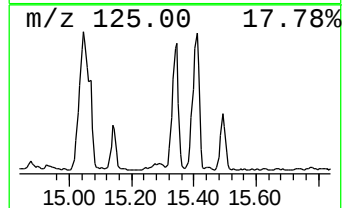
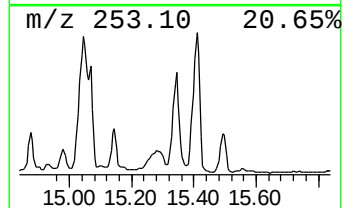
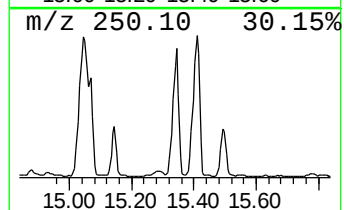
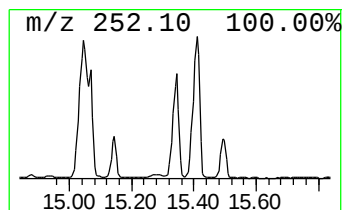
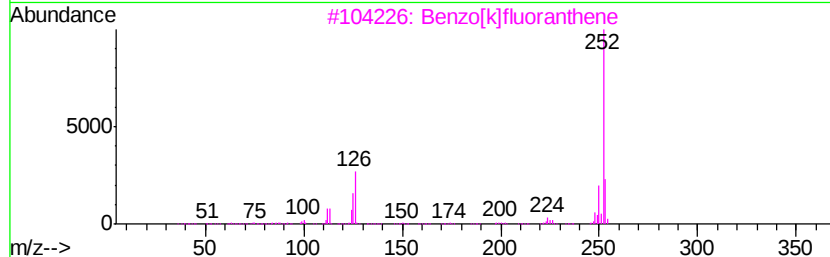
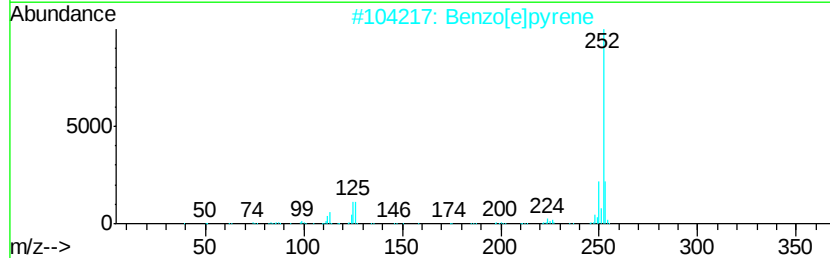
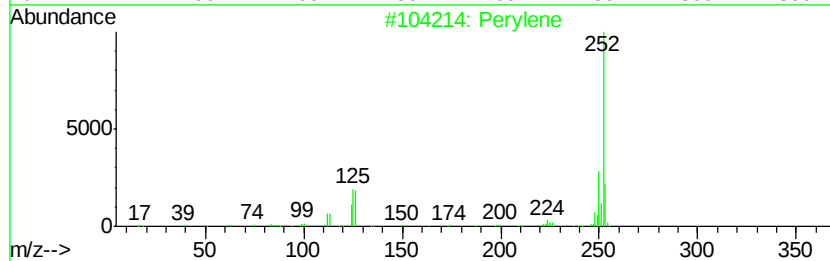
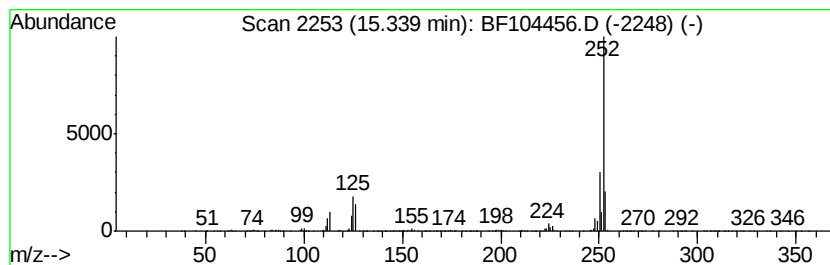
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Perylene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.34	62.12 ng	1891150	Perylene-d12	15.46

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Perylene	252	C20H12	000198-55-0	94
2		Benzo[e]pyrene	252	C20H12	000192-97-2	94
3		Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
4		Benzo[i]fluoranthene	252	C20H12	000205-82-3	93
5		Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041218\
 Data File : BF104456.D
 Acq On : 12 Apr 2018 17:35
 Operator : JU/SJ
 Sample : J2163-03 2X
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-041118-B

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown6.57	6.57	37.5	ng	1504170	1	6.81	802855	20.0
Naphthalene, 1-me...	8.90	22.9	ng	1294250	2	8.09	1130790	20.0
Naphthalene, 2,6-...	9.44	25.4	ng	1204470	3	9.85	949248	20.0
Naphthalene, 2,3-...	9.51	31.1	ng	1474150	3	9.85	949248	20.0
9H-Fluorene, 1-me...	10.95	33.8	ng	1478510	4	11.35	875830	20.0
Naphtho[2,1-b]thi...	11.23	24.6	ng	1076810	4	11.35	875830	20.0
1-Methyldibenzoth...	11.67	20.2	ng	886279	4	11.35	875830	20.0
Phenanthrene, 1-m...	11.85	62.9	ng	2756050	4	11.35	875830	20.0
Phenanthrene, 2-m...	11.88	63.2	ng	2766590	4	11.35	875830	20.0
4H-Cyclopenta[def...	11.96	84.8	ng	3711170	4	11.35	875830	20.0
1H-Cyclopropa[l]p...	11.99	38.0	ng	1663540	4	11.35	875830	20.0
Naphthalene, 2-ph...	12.14	37.1	ng	1626070	4	11.35	875830	20.0
Phenanthrene, 4,5...	12.29	19.6	ng	856579	4	11.35	875830	20.0
Phenanthrene, 2,5...	12.40	44.7	ng	1956520	4	11.35	875830	20.0
unknown12.43	12.43	25.9	ng	1134460	4	11.35	875830	20.0
Cyclopenta(def)ph...	12.49	26.9	ng	1178100	4	11.35	875830	20.0
Benzo[e]pyrene	15.14	17.4	ng	529978	6	15.46	608881	20.0
Perylene	15.34	62.1	ng	1891150	6	15.46	608881	20.0