

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112817\
 Data File : BF100945.D
 Acq On : 28 Nov 2017 20:20
 Operator : SJ/JU
 Sample : I6579-02 5X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HAR-4-E(4-5)

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-BF110817.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	5.469	571	575	584	rBV	230655	215137	8.29%	0.746%
2	6.481	744	747	763	rBB	260535	220893	8.52%	0.766%
3	6.622	768	771	775	rBV	290595	234587	9.04%	0.814%
4	6.857	807	811	815	rBV	444654	344952	13.30%	1.196%
5	7.010	834	837	841	rBV	219614	180895	6.97%	0.627%
6	7.416	903	906	911	rBV	164908	129592	5.00%	0.449%
7	8.139	1025	1029	1032	rBV	533087	415804	16.03%	1.442%
8	9.210	1208	1211	1214	rBV	348911	262545	10.12%	0.911%
9	9.892	1324	1327	1330	rBV	439876	382370	14.74%	1.326%
10	9.928	1330	1333	1336	rVB	165447	130073	5.01%	0.451%
11	10.098	1357	1362	1365	rBV2	88972	76556	2.95%	0.266%
12	10.439	1416	1420	1426	rBV2	111313	99473	3.83%	0.345%
13	10.598	1445	1447	1452	rVB	63086	50968	1.96%	0.177%
14	10.680	1458	1461	1465	rVB	184782	162256	6.26%	0.563%
15	10.804	1477	1482	1486	rVB5	35204	50008	1.93%	0.173%
16	10.986	1507	1513	1516	rBV3	36698	48575	1.87%	0.168%
17	11.116	1530	1535	1537	rBV3	47132	47671	1.84%	0.165%
18	11.139	1537	1539	1541	rVV	45722	38702	1.49%	0.134%
19	11.186	1544	1547	1550	rVV	80378	69938	2.70%	0.243%
20	11.227	1550	1554	1558	rVV2	49069	64172	2.47%	0.223%
21	11.274	1560	1562	1568	rVB	84320	81672	3.15%	0.283%
22	11.380	1577	1580	1582	rBV	354165	338135	13.04%	1.173%
23	11.410	1582	1585	1588	rVV	1487007	1235141	47.62%	4.284%
24	11.457	1588	1593	1596	rVV	424540	334391	12.89%	1.160%
25	11.610	1613	1619	1621	rBV2	72940	71478	2.76%	0.248%
26	11.674	1626	1630	1633	rVV2	52849	58219	2.24%	0.202%
27	11.710	1633	1636	1641	rVB5	31654	35967	1.39%	0.125%
28	11.880	1662	1665	1668	rBV	162543	141862	5.47%	0.492%
29	11.910	1668	1670	1674	rVB	259355	201886	7.78%	0.700%
30	11.957	1674	1678	1681	rBV	123588	105870	4.08%	0.367%
31	11.998	1681	1685	1687	rBV2	258817	283895	10.94%	0.985%
32	12.174	1712	1715	1718	rBV	149382	126708	4.88%	0.439%
33	12.204	1718	1720	1724	rVV	105056	82841	3.19%	0.287%
34	12.327	1738	1741	1743	rVB	46124	36440	1.40%	0.126%

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Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
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35	12.380	1748	1750	1752	rVB	48596	36080	1.39%	0.125%
36	12.433	1752	1759	1761	rBV	91955	121588	4.69%	0.422%
37	12.469	1761	1765	1767	rVV3	56030	97059	3.74%	0.337%
38	12.521	1771	1774	1779	rVB	145431	155998	6.01%	0.541%
39	12.604	1783	1788	1791	rBV	2084093	2359664	90.97%	8.184%
40	12.657	1795	1797	1800	rVB	50675	45446	1.75%	0.158%
41	12.745	1805	1812	1815	rBV2	113061	175076	6.75%	0.607%
42	12.833	1820	1827	1831	rBV2	1951376	2593997	100.00%	8.997%
43	12.874	1831	1834	1838	rVB2	107844	123516	4.76%	0.428%
44	12.945	1842	1846	1847	rBV	142266	142148	5.48%	0.493%
45	12.963	1847	1849	1851	rVV	237244	193121	7.44%	0.670%
46	12.980	1851	1852	1856	rVB	101245	78204	3.01%	0.271%
47	13.039	1857	1862	1866	rBV3	156300	266445	10.27%	0.924%
48	13.127	1874	1877	1879	rBV3	121240	156673	6.04%	0.543%
49	13.151	1879	1881	1884	rVB	227288	201691	7.78%	0.700%
50	13.186	1884	1887	1890	rBV3	33402	45398	1.75%	0.157%
51	13.216	1890	1892	1895	rVB	98251	81017	3.12%	0.281%
52	13.257	1895	1899	1902	rBV2	225605	270464	10.43%	0.938%
53	13.280	1902	1903	1906	rVB3	54217	45050	1.74%	0.156%
54	13.310	1906	1908	1911	rBV	50768	47465	1.83%	0.165%
55	13.351	1912	1915	1917	rVB	109773	90865	3.50%	0.315%
56	13.380	1917	1920	1923	rBV2	119860	125466	4.84%	0.435%
57	13.463	1931	1934	1937	rVB2	45804	50992	1.97%	0.177%
58	13.533	1942	1946	1948	rBV3	56463	85080	3.28%	0.295%
59	13.633	1960	1963	1965	rBV2	39272	36959	1.42%	0.128%
60	13.663	1965	1968	1972	rVV	269196	250326	9.65%	0.868%
61	13.774	1982	1987	1989	rBV2	244591	288268	11.11%	1.000%
62	13.798	1989	1991	1993	rVV	225002	208431	8.04%	0.723%
63	13.827	1993	1996	2000	rVV2	224597	327271	12.62%	1.135%
64	13.874	2000	2004	2007	rVB	263604	283034	10.91%	0.982%
65	13.939	2010	2015	2021	rBV	77921	155860	6.01%	0.541%
66	14.021	2021	2029	2033	rBV2	1456679	2278020	87.82%	7.901%
67	14.057	2033	2035	2042	rVV	1306422	1144130	44.11%	3.968%
68	14.133	2045	2048	2052	rVV	314887	277353	10.69%	0.962%
69	14.174	2052	2055	2056	rVV2	58730	63476	2.45%	0.220%
70	14.215	2060	2062	2064	rVV	97113	76590	2.95%	0.266%
71	14.251	2064	2068	2071	rVV2	121253	172635	6.66%	0.599%

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72	14.280	2071	2073	2076	rVV	67047	51805	2.00%	0.180%
73	14.339	2081	2083	2085	rVV2	42768	45632	1.76%	0.158%
74	14.374	2085	2089	2091	rVV2	99829	128810	4.97%	0.447%
75	14.410	2091	2095	2098	rVV	301443	331986	12.80%	1.151%
76	14.445	2098	2101	2104	rVV	154838	169248	6.52%	0.587%
77	14.504	2104	2111	2114	rVV3	97866	226817	8.74%	0.787%
78	14.533	2114	2116	2118	rVV	155475	150941	5.82%	0.524%
79	14.557	2118	2120	2123	rVV2	132087	131258	5.06%	0.455%
80	14.604	2124	2128	2134	rVB3	101322	152332	5.87%	0.528%
81	14.657	2135	2137	2140	rBV	35738	32318	1.25%	0.112%
82	14.721	2146	2148	2151	rBV3	72516	77130	2.97%	0.268%
83	14.804	2159	2162	2165	rBV3	43385	68691	2.65%	0.238%
84	14.910	2176	2180	2187	rVB2	124057	195272	7.53%	0.677%
85	14.968	2188	2190	2192	rBV2	46894	50752	1.96%	0.176%
86	15.080	2202	2209	2212	rBV	1085911	1946471	75.04%	6.751%
87	15.180	2223	2226	2230	rBV	241658	247856	9.55%	0.860%
88	15.268	2237	2241	2243	rBV4	69994	103603	3.99%	0.359%
89	15.380	2255	2260	2266	rVB	634080	931783	35.92%	3.232%
90	15.451	2266	2272	2276	rBV	960669	1262007	48.65%	4.377%
91	15.504	2277	2281	2284	rVV	277650	389185	15.00%	1.350%
92	15.539	2284	2287	2293	rVB	355207	458681	17.68%	1.591%
93	15.986	2360	2363	2364	rBV2	34277	35080	1.35%	0.122%
94	16.068	2374	2377	2381	rVB	51422	63286	2.44%	0.220%
95	16.533	2453	2456	2462	rBV6	25392	42984	1.66%	0.149%
96	16.992	2526	2534	2541	rVB2	419662	842047	32.46%	2.921%
97	17.156	2556	2562	2567	rBV2	84091	174164	6.71%	0.604%
98	17.221	2568	2573	2577	rVV2	62758	116285	4.48%	0.403%
99	17.445	2603	2611	2619	rVB	328800	731631	28.20%	2.538%
100	17.674	2644	2650	2655	rBV	84312	162717	6.27%	0.564%

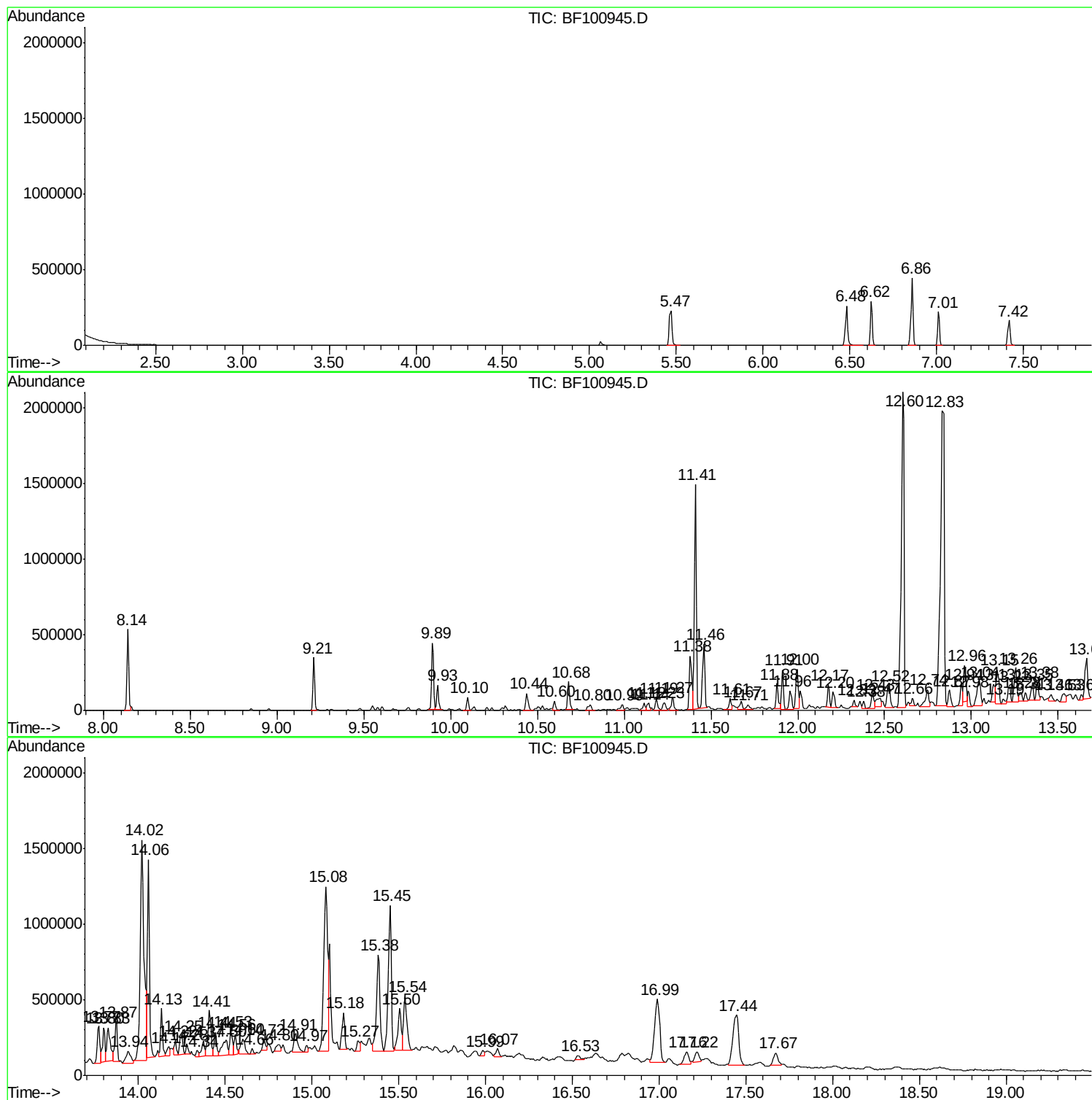
Sum of corrected areas: 28831300

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ClientSampleId :
HAR-4-E(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.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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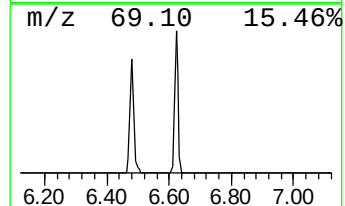
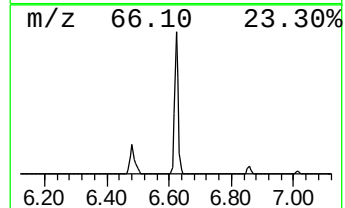
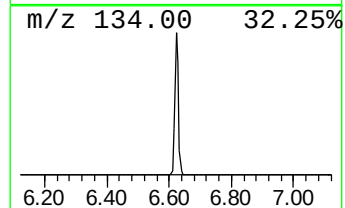
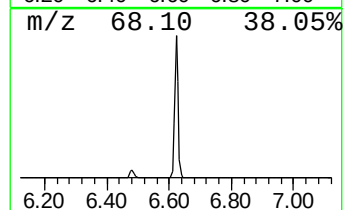
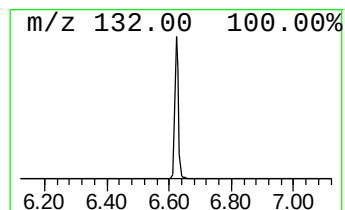
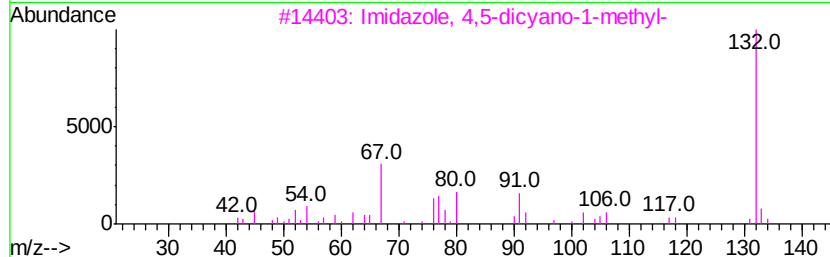
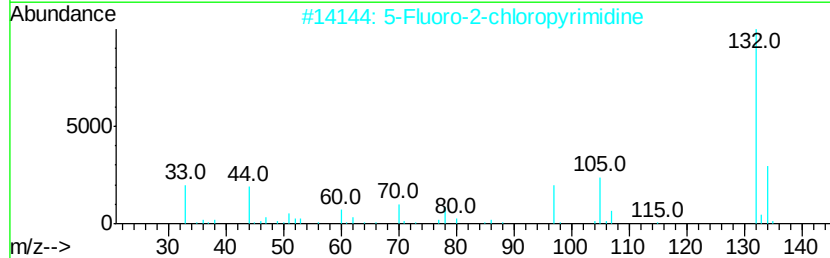
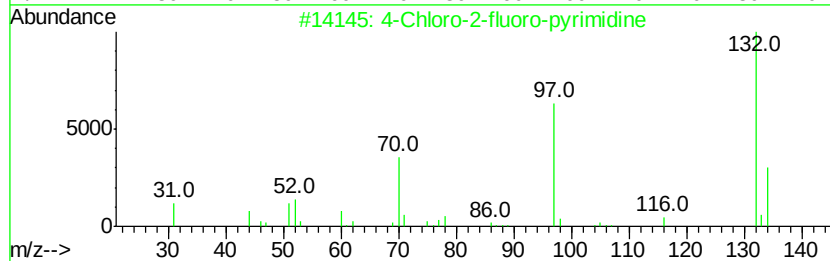
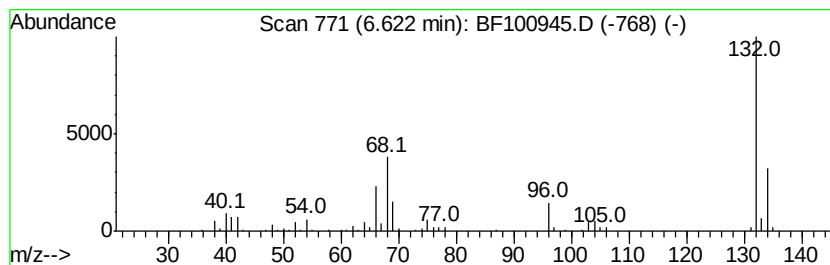
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 unknown6.62 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.62	13.60 ng	234587	1,4-Dichlorobenzene-d4	6.86

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9
2		5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9
3		Imidazole, 4,5-dicyano-1-methyl-	132	C6H4N4	019485-35-9	9
4		1,3,5-Trifluorobenzene	132	C6H3F3	000372-38-3	9
5		N-(1,2,3,4-Tetrahydro-isoquinoli...	302	C16H18N2O2S	1000274-62-8	9



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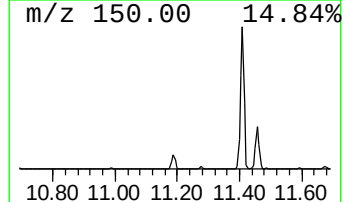
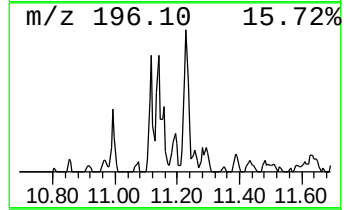
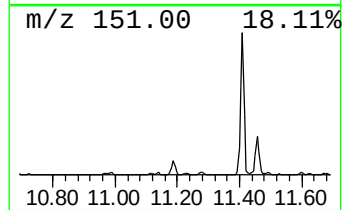
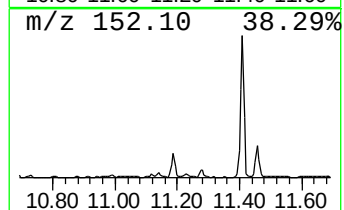
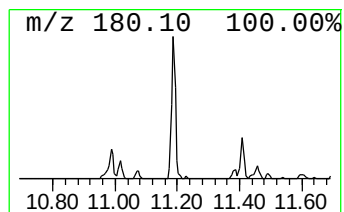
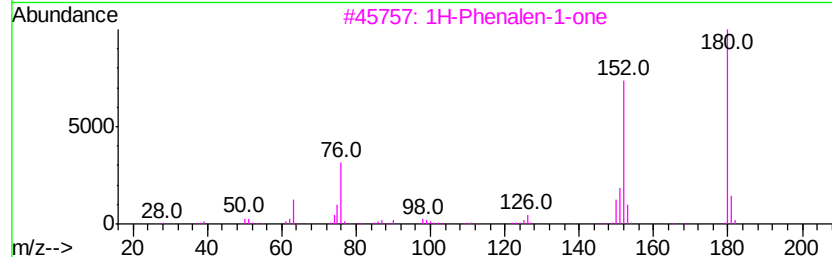
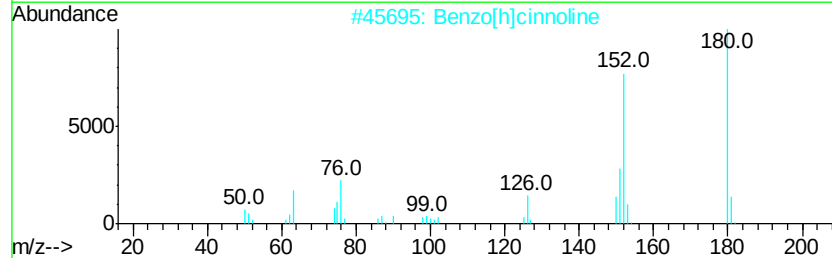
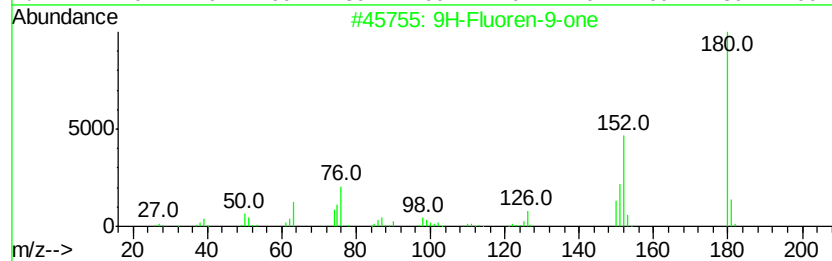
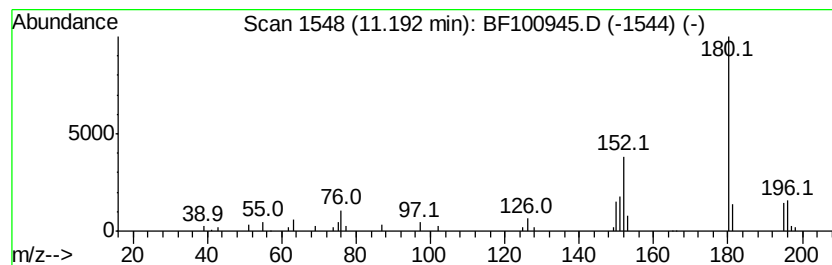
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 9H-Fluoren-9-one Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.19	4.14 ng	69938	Phenanthrene-d10	11.38

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	96
2		Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
3		1H-Phenalen-1-one	180	C13H8O	000548-39-0	72
4		2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	59
5		6H-Purine-6-thione, 9-ethyl-1,9-...	180	C7H8N4S	005427-20-3	45



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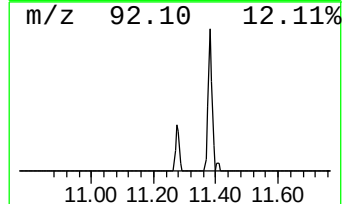
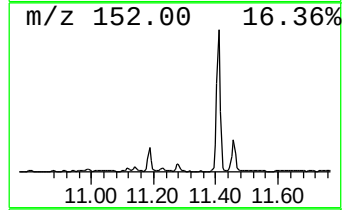
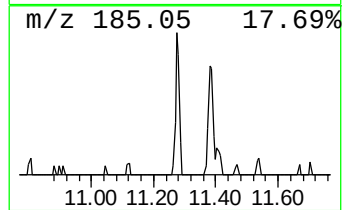
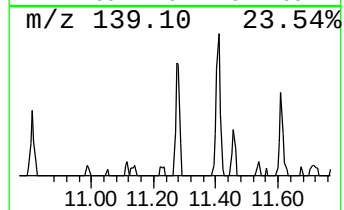
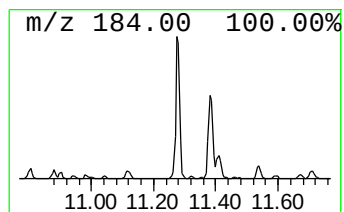
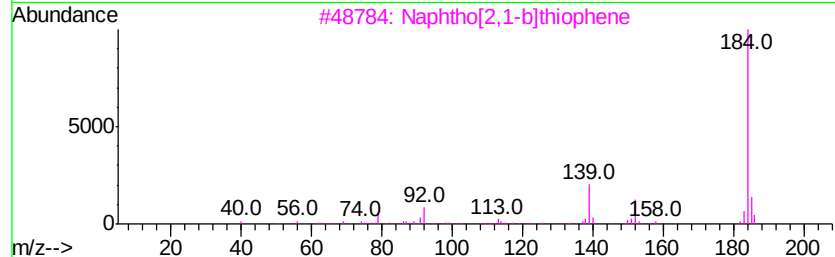
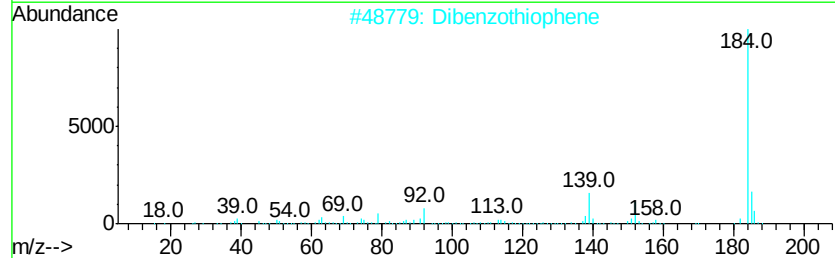
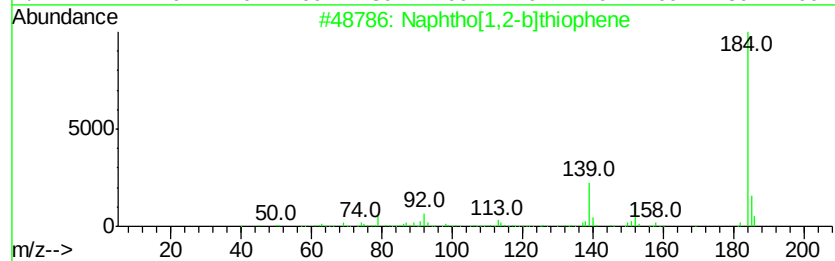
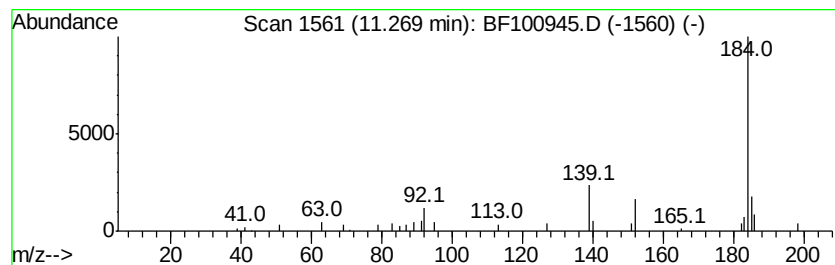
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Naphtho[1,2-b]thiophene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.27	4.83 ng	81672	Phenanthrene-d10	11.38

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	97
2		Dibenzothiophene	184	C12H8S	000132-65-0	96
3		Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	96
4		Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
5		Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91



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Data File : BF100945.D
Acq On : 28 Nov 2017 20:20
Operator : SJ/JU
Sample : I6579-02 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
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ClientSampleId :
HAR-4-E(4-5)

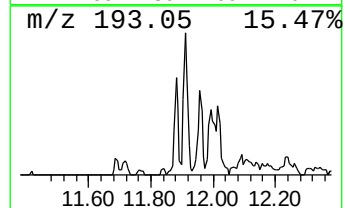
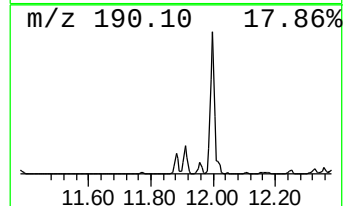
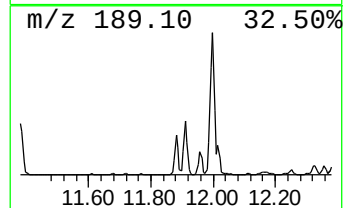
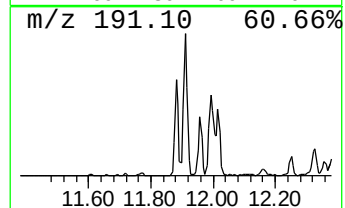
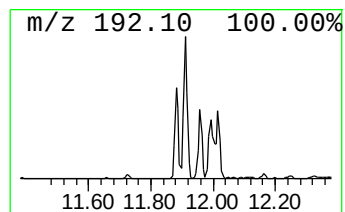
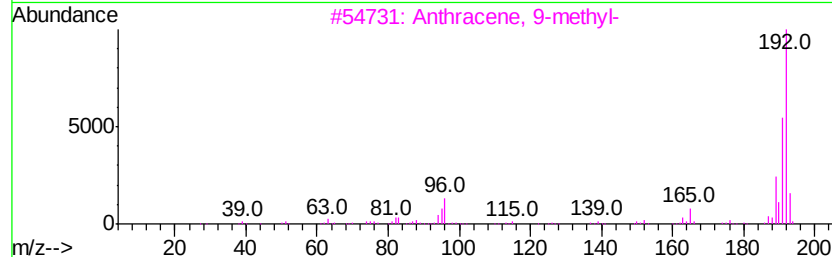
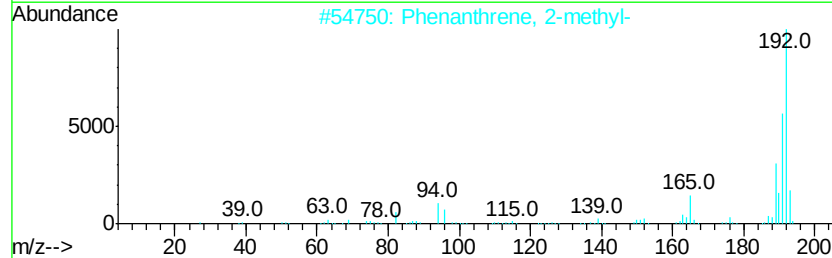
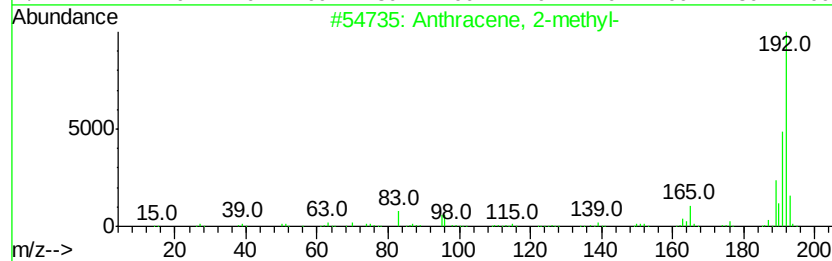
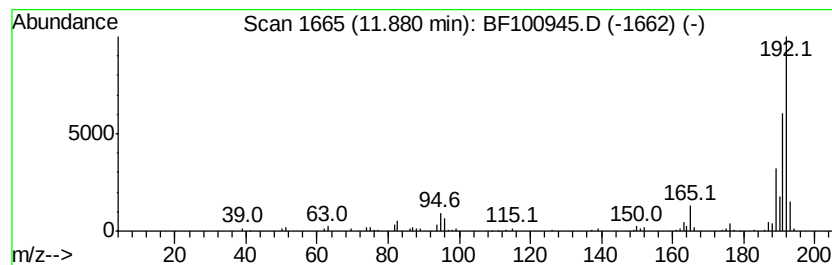
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Anthracene, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.88	8.39 ng	141862	Phenanthrene-d10	11.38

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
2		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
3		Anthracene, 9-methyl-	192	C15H12	000779-02-2	94
4		Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
5		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112817\
Data File : BF100945.D
Acq On : 28 Nov 2017 20:20
Operator : SJ/JU
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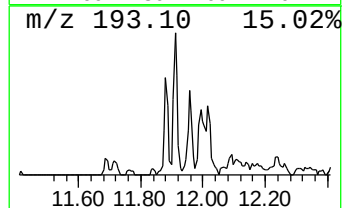
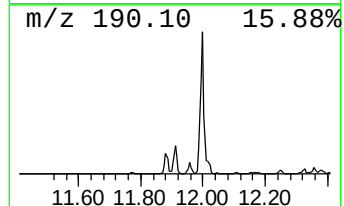
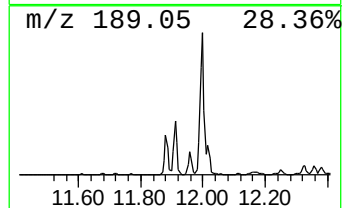
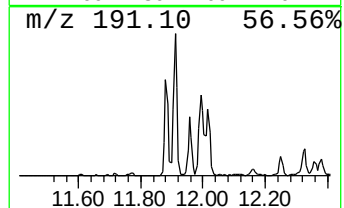
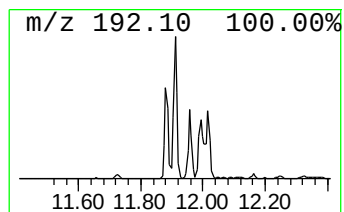
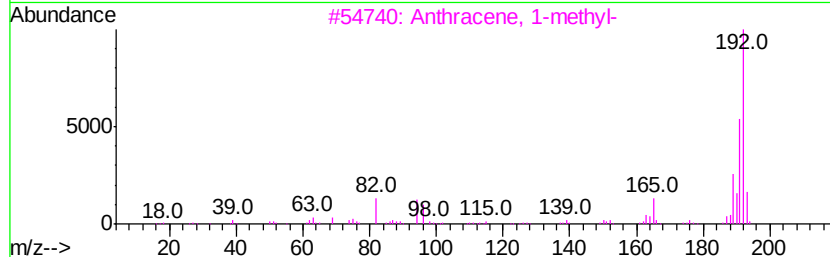
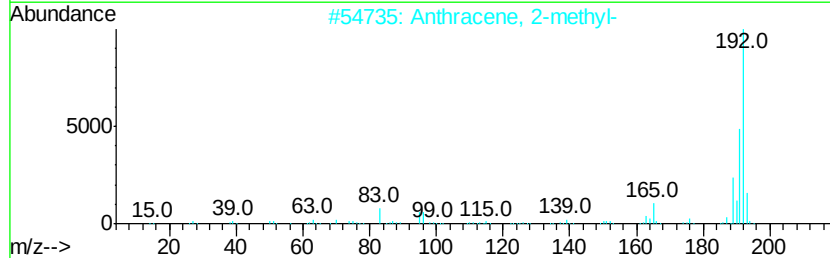
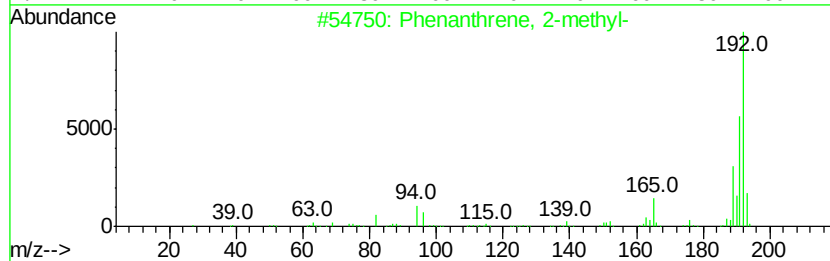
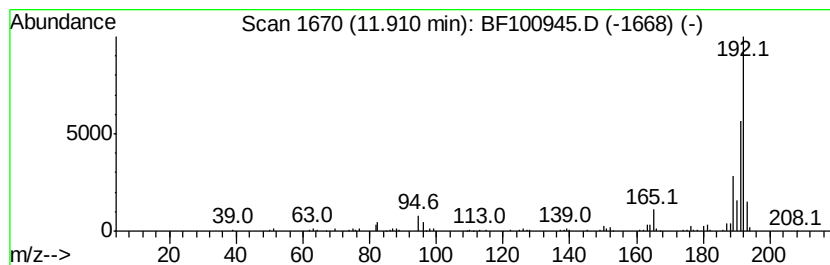
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.91	11.94 ng	201886	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, 1-methyl-	192	C15H12	000610-48-0	95
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112817\
Data File : BF100945.D
Acq On : 28 Nov 2017 20:20
Operator : SJ/JU
Sample : I6579-02 5X
Misc :
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Instrument :
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ClientSampleId :
HAR-4-E(4-5)

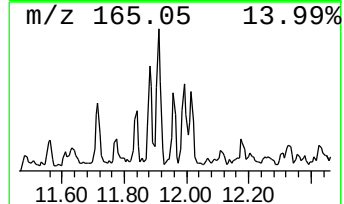
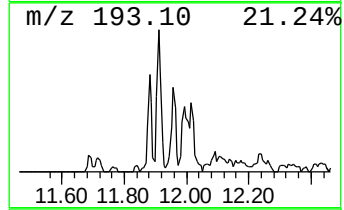
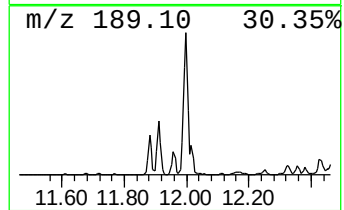
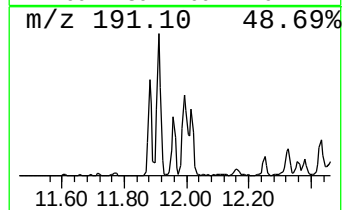
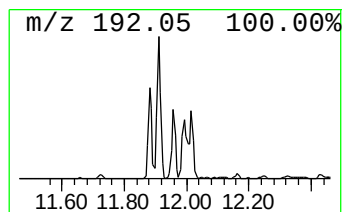
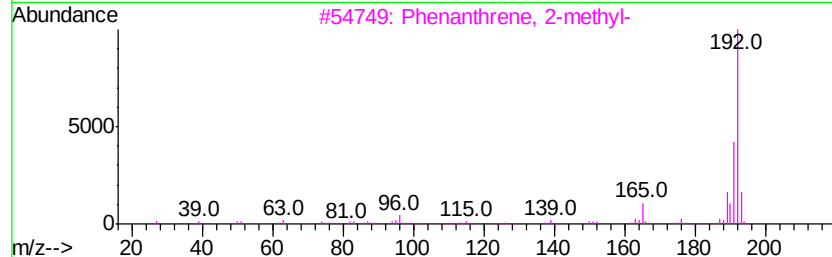
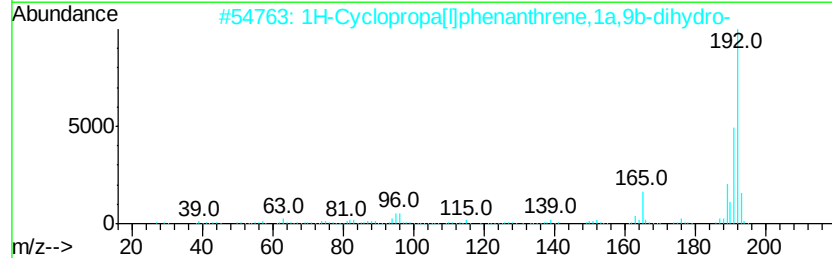
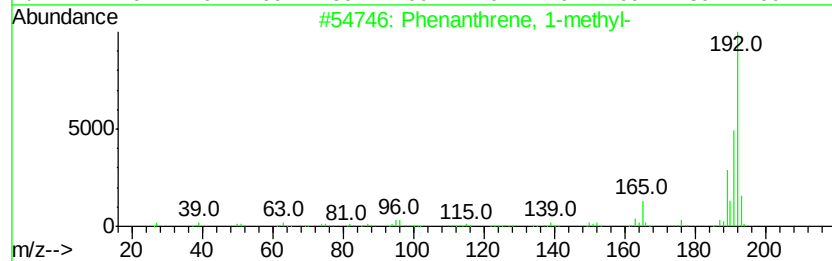
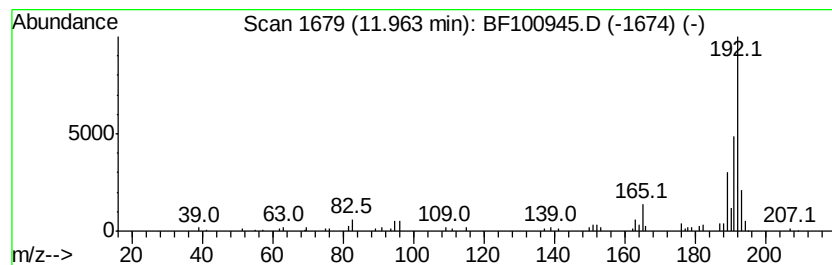
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	6.26 ng	105870	Phenanthrene-d10	11.38

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2		1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	96
3		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4		Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
5		Anthracene, 9-methyl-	192	C15H12	000779-02-2	94



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112817\
Data File : BF100945.D
Acq On : 28 Nov 2017 20:20
Operator : SJ/JU
Sample : I6579-02 5X
Misc :
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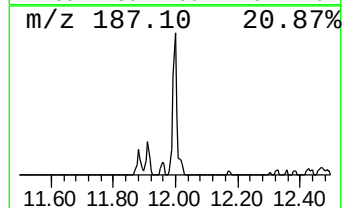
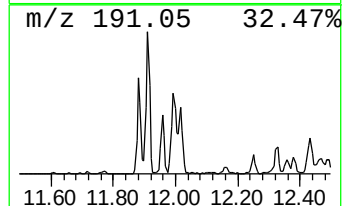
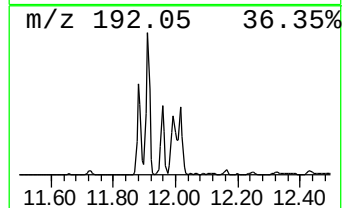
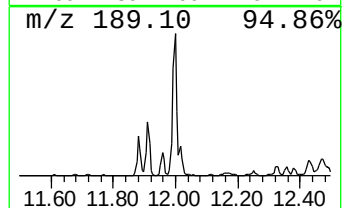
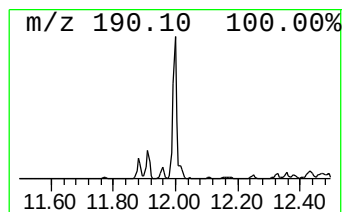
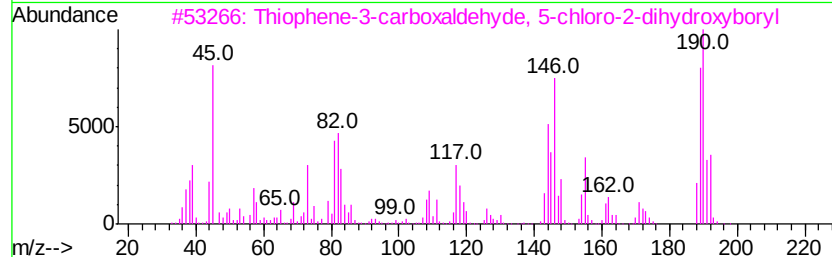
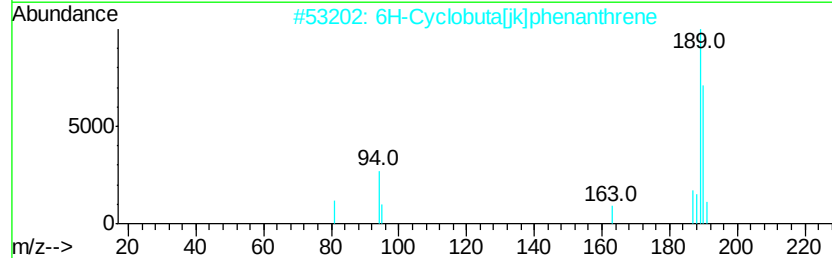
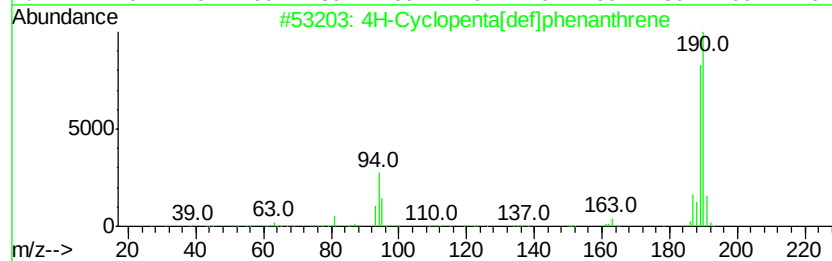
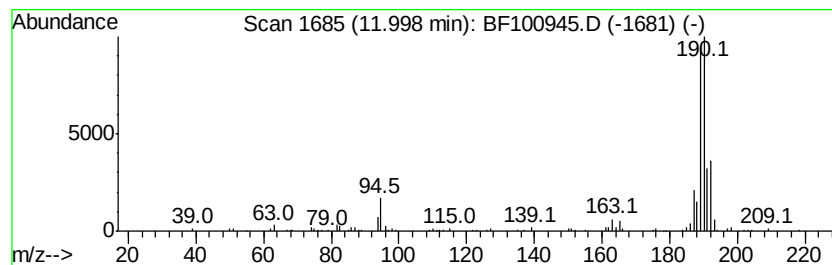
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ClientSampleId :
HAR-4-E(4-5)

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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 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.00	16.79 ng	283895	Phenanthrene-d10	11.38	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	87
2	6H-Cyclobuta[ikl]phenanthrene	190	C15H10	083469-43-6	50
3	Thiophene-3-carboxaldehyde, 5-chloro-2-dihydroxyboryl	190	C5H4BClO3S	036155-87-0	50
4	2,3,5,6-Tetramethylterephthalald	190	C12H14O2	007072-01-7	50
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	42



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF112817\
Data File : BF100945.D
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Operator : SJ/JU
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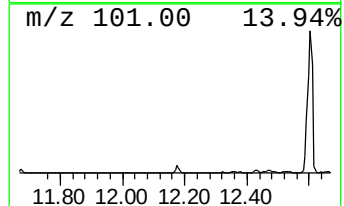
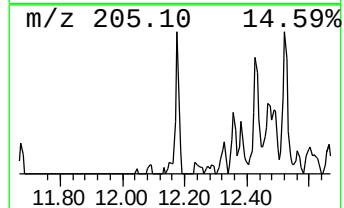
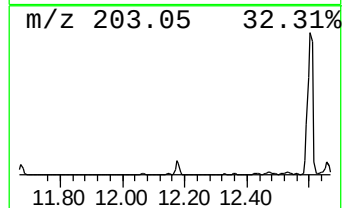
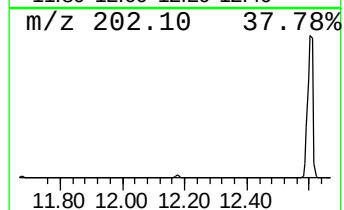
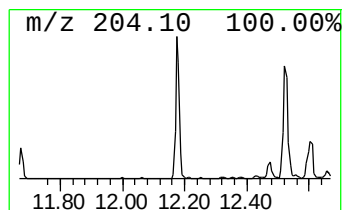
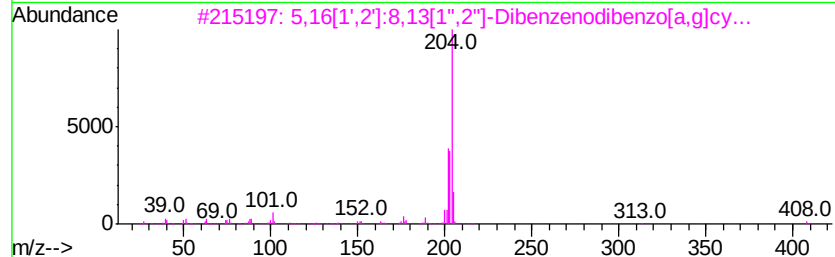
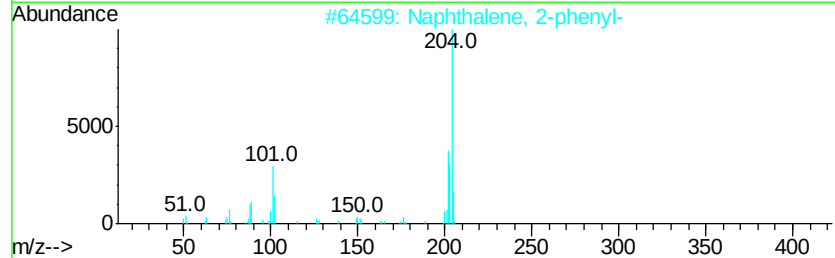
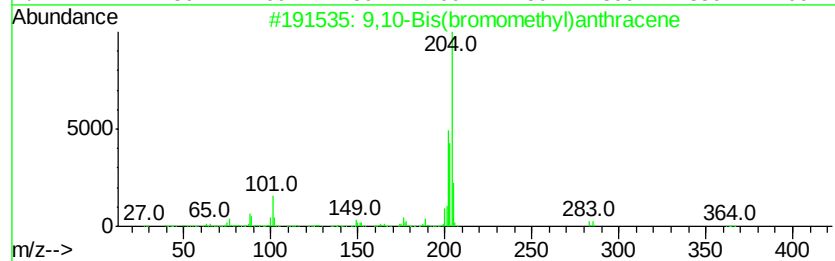
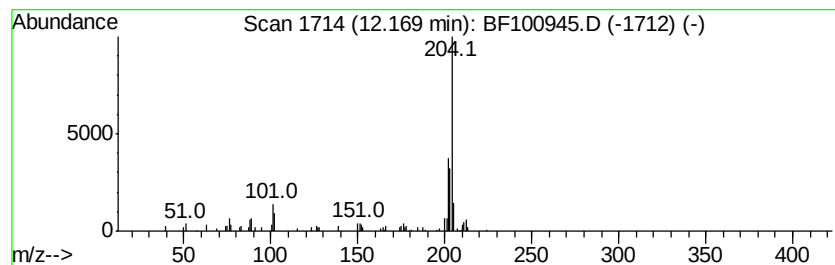
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 9,10-Bis(bromomethyl)anthra... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.17	7.49 ng	126708	Phenanthrene-d10	11.38

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	91
2		Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	90
3		5,16[1',2'1:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	83
4		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	74
5		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	70



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF112817\
Data File : BF100945.D
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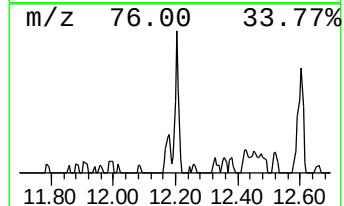
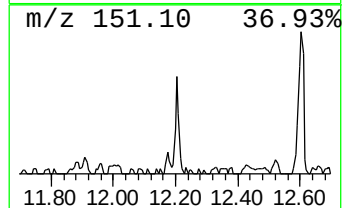
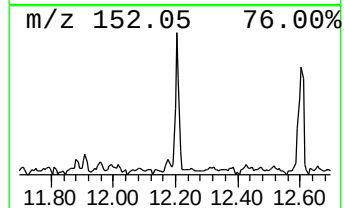
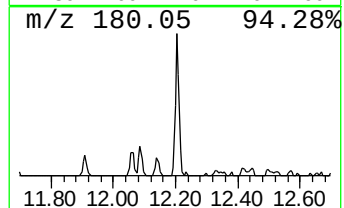
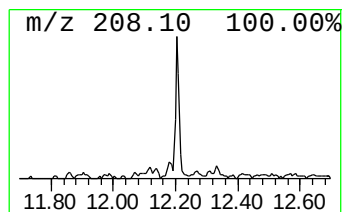
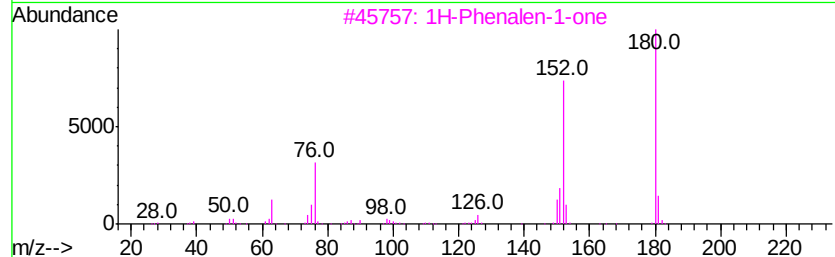
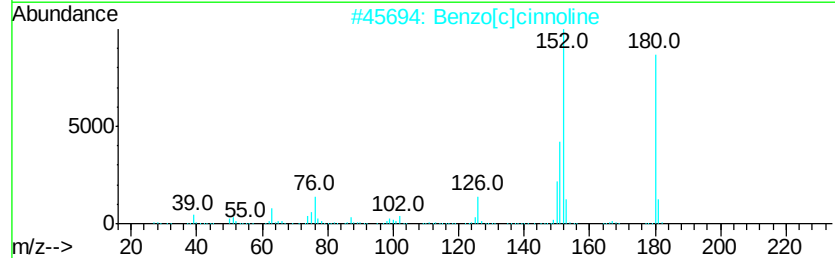
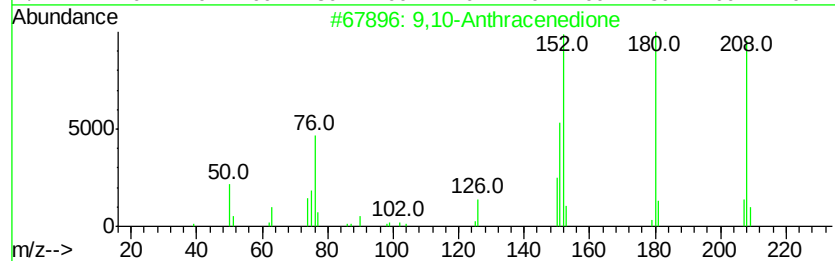
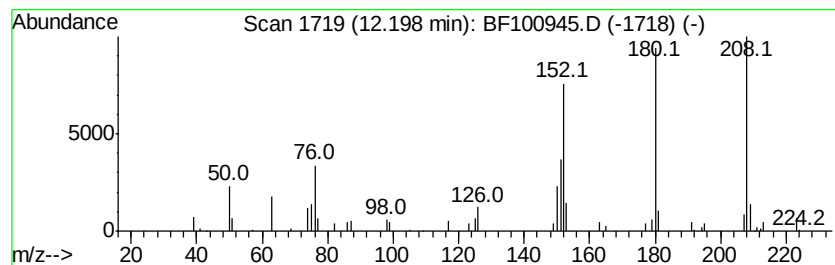
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 9,10-Anthracenedione Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	4.90 ng	82841	Phenanthrene-d10	11.38

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2		Benzo[c]cinnoline	180	C12H8N2	000230-17-1	92
3		1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
4		Benzo[h]cinnoline	180	C12H8N2	000230-31-9	53
5		9H-Fluoren-9-one	180	C13H8O	000486-25-9	47



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF112817\
Data File : BF100945.D
Acq On : 28 Nov 2017 20:20
Operator : SJ/JU
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Misc :
ALS Vial : 24 Sample Multiplier: 1

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ClientSampleId :
HAR-4-E(4-5)

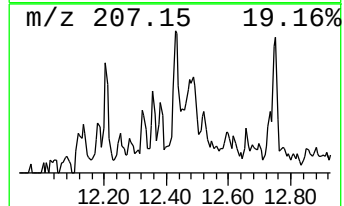
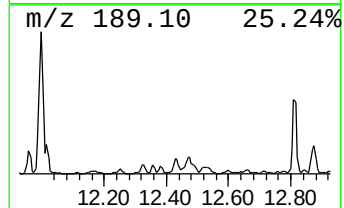
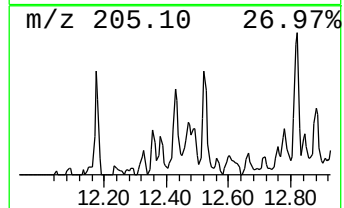
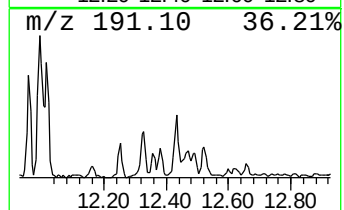
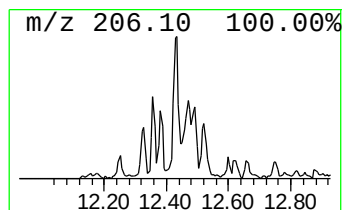
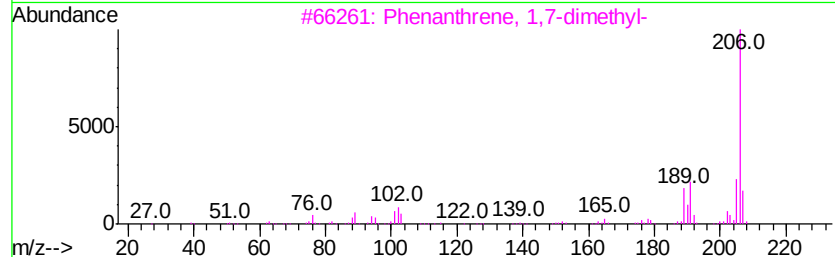
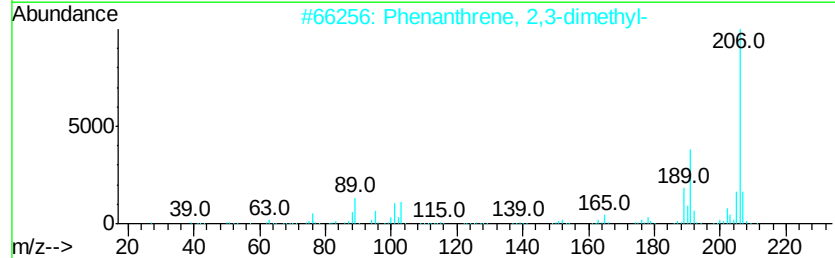
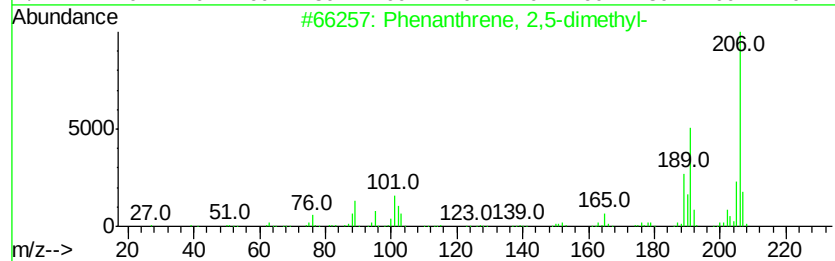
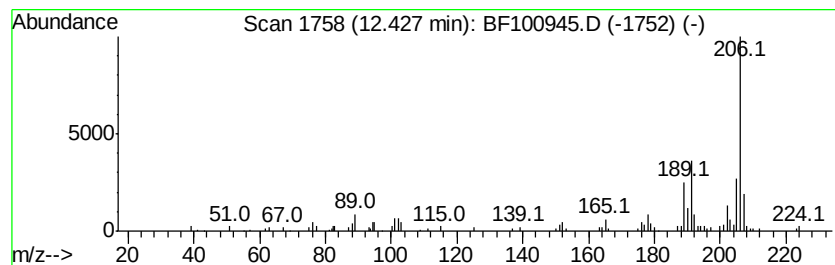
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Phenanthrene, 2,5-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.43	7.19 ng	121588	Phenanthrene-d10	11.38

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
3		Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	91
4		Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87
5		9,10-Dimethylantracene	206	C16H14	000781-43-1	87



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112817\
Data File : BF100945.D
Acq On : 28 Nov 2017 20:20
Operator : SJ/JU
Sample : I6579-02 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

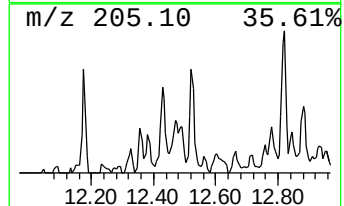
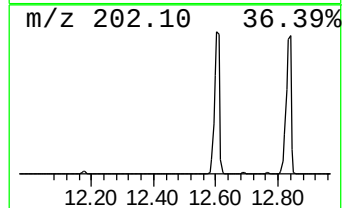
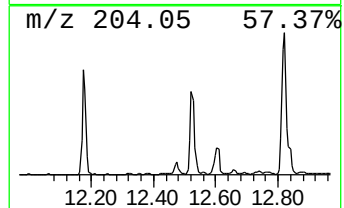
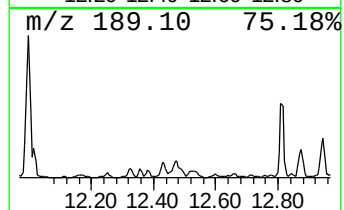
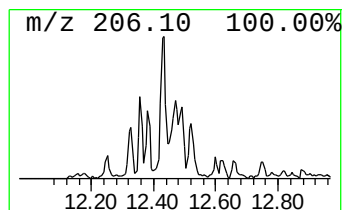
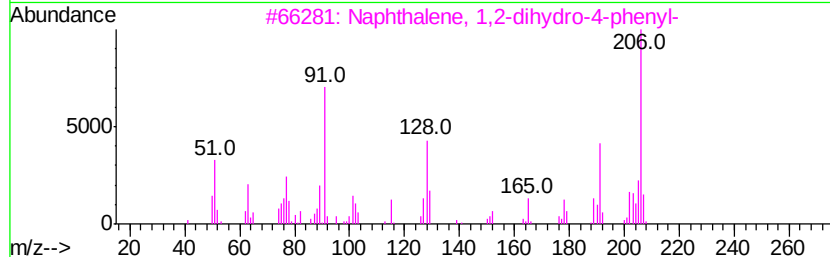
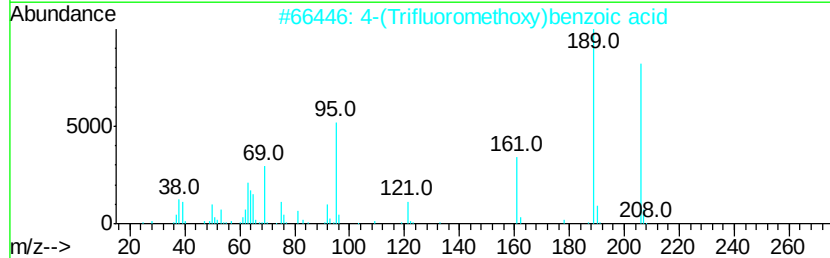
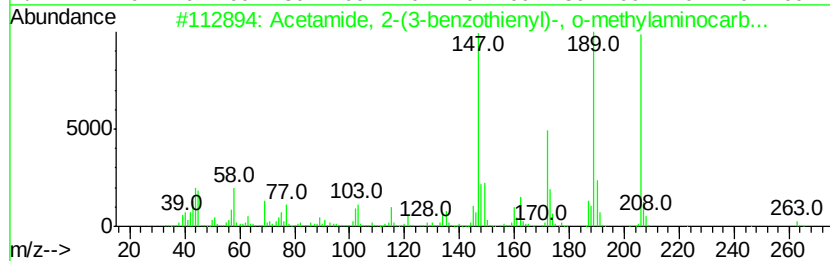
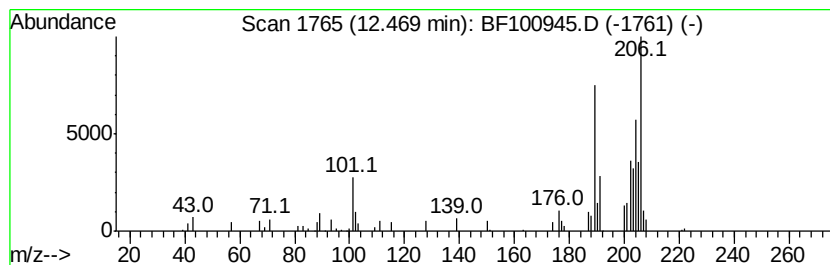
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 unknown12.47 Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD		R.T.
12.47	5.74 ng	97059	Phenanthrene-d10		11.38
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetamide, 2-(3-benzothienvl)-, ...	263	C12H13N3O2S	1000270-74-8	43
2	4-(Trifluoromethoxy)benzoic acid	206	C8H5F3O3	000330-12-1	43
3	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	35
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	35
5	Naphthalene, 1,2-dihydro-1-phenyl-	206	C16H14	016606-46-5	35



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112817\
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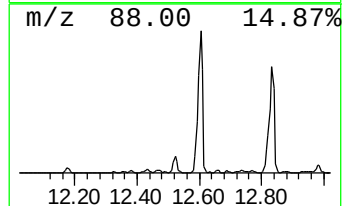
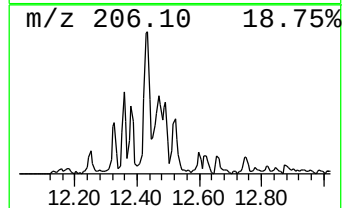
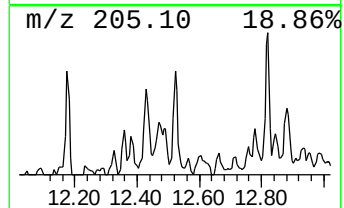
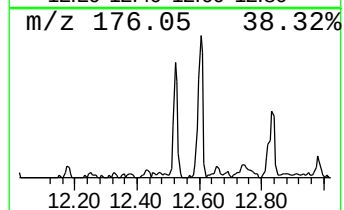
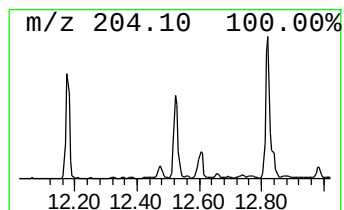
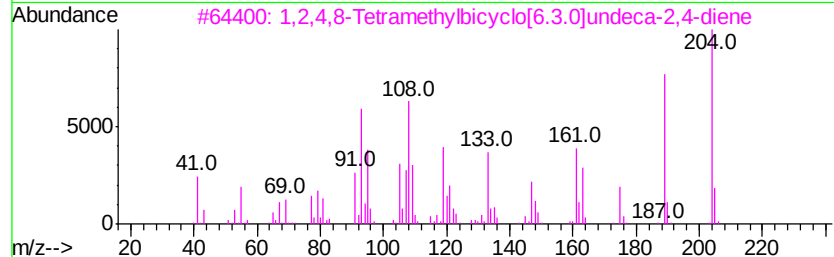
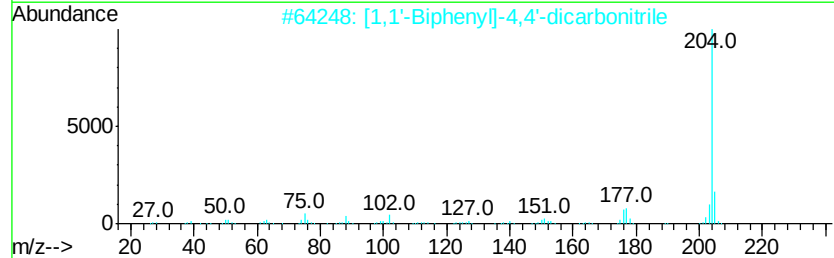
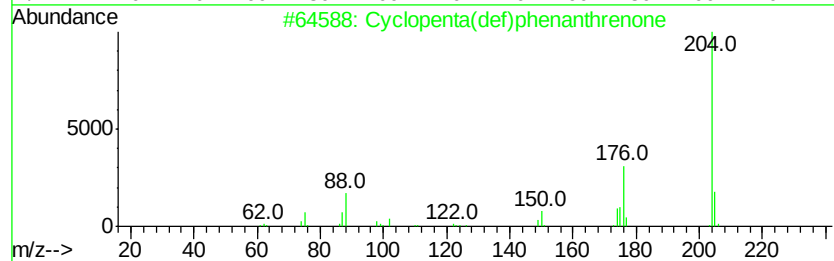
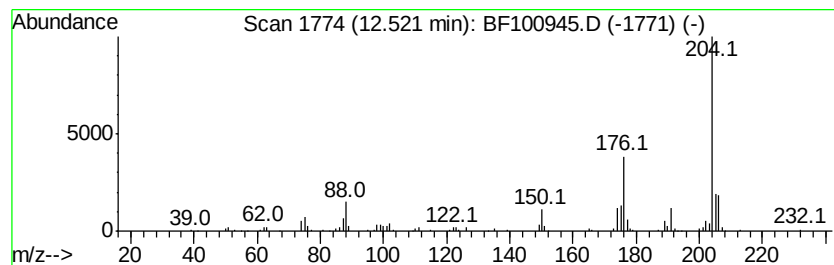
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.52	9.23 ng	155998	Phenanthrene-d10	11.38

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	52
3		1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene	204	C15H24	137235-51-9	45
4		9-Acridinecarbonitrile	204	C14H8N2	005326-19-2	43
5		N-(4-Chloro-phenyl)-2-(3,4-dihydro-2H-chromen-2-ylidene)acetamide	330	C17H15ClN2OS	1000296-34-3	42



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112817\
Data File : BF100945.D
Acq On : 28 Nov 2017 20:20
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ClientSampleId :
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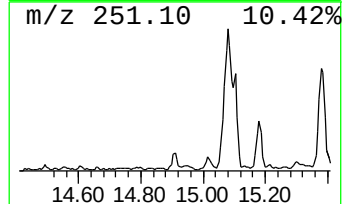
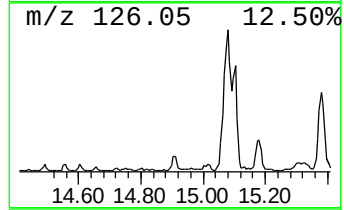
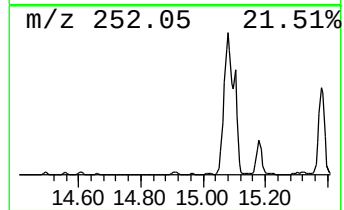
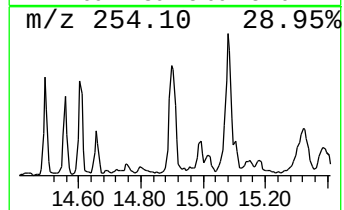
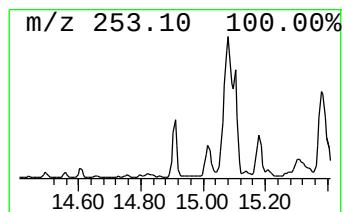
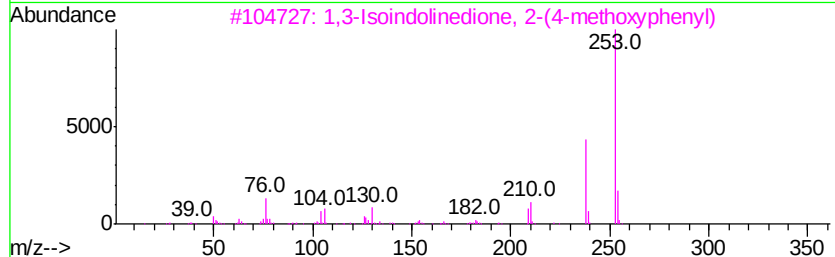
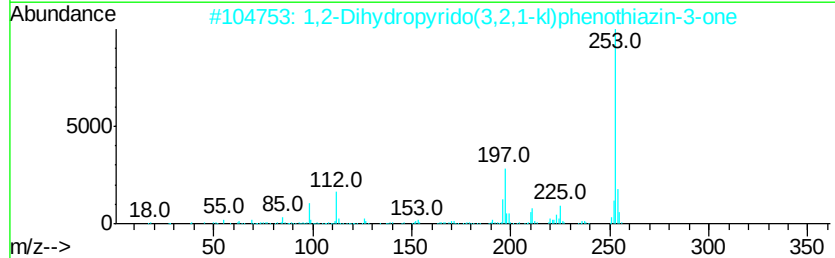
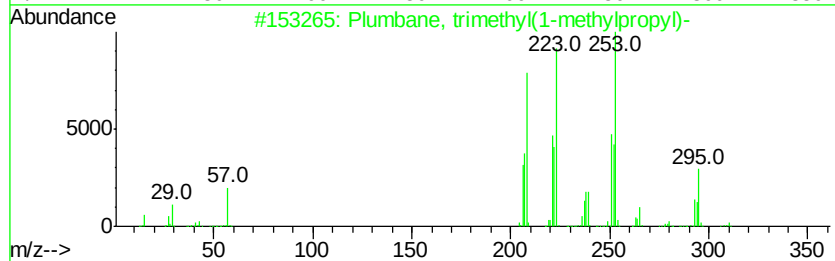
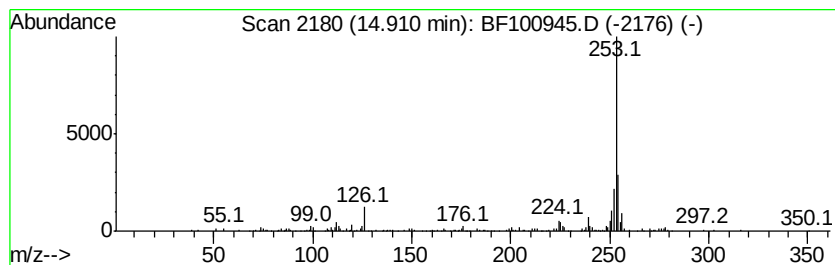
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Plumbane, trimethyl(1-methy... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.91	10.03 ng	195272	Perylene-d12	15.50

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Plumbane, trimethyl(1-methylprop...	310	C7H18Pb	054964-76-0	50
2		1,2-Dihydropyrido(3,2,1-kl)pheno...	253	C15H11NOS	069513-42-4	47
3		1,3-Isoindolinedione, 2-(4-metho...	253	C15H11N03	002142-04-3	37
4		Ethyl 4-(5-methyl-1,1-dioxido-4-...	373	C19H19N05S	1000294-64-6	28
5		Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	27



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112817\
Data File : BF100945.D
Acq On : 28 Nov 2017 20:20
Operator : SJ/JU
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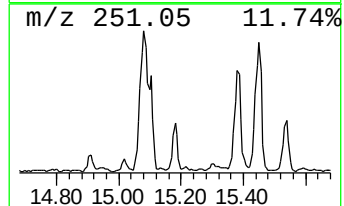
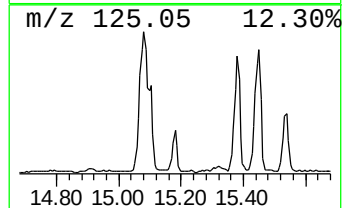
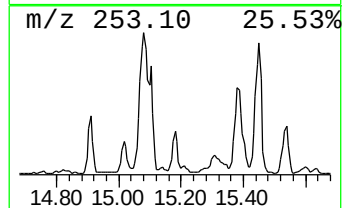
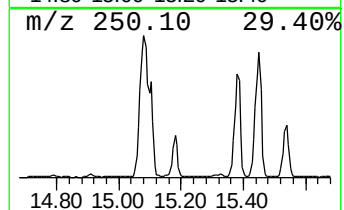
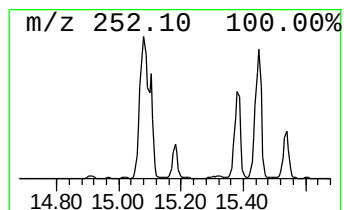
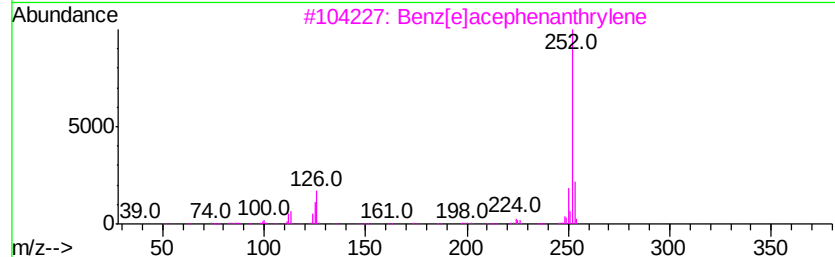
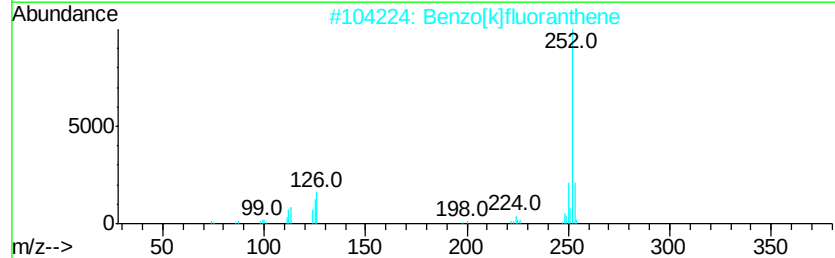
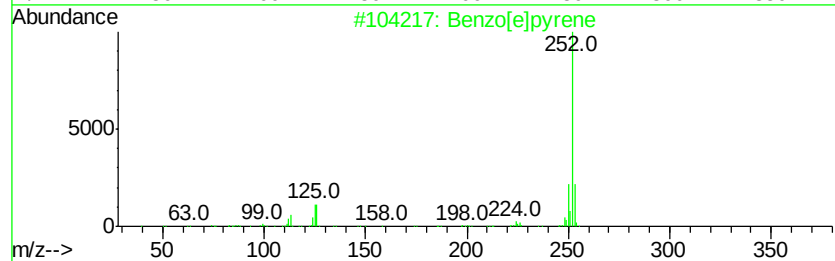
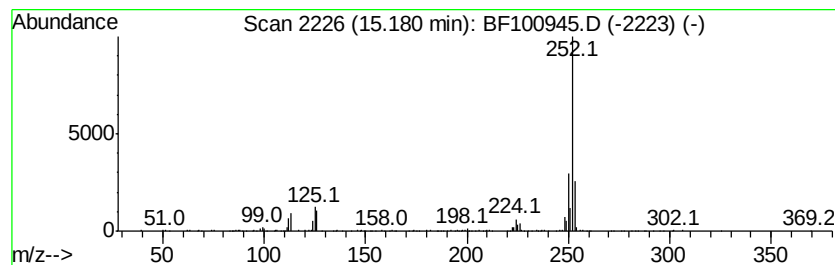
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.18	12.74 ng	247856	Perylene-d12	15.50

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2		Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3		Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	90
4		Benzo[a]pyrene	252	C20H12	000050-32-8	90
5		Perylene	252	C20H12	000198-55-0	83



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112817\
Data File : BF100945.D
Acq On : 28 Nov 2017 20:20
Operator : SJ/JU
Sample : I6579-02 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

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ClientSampleId :
HAR-4-E(4-5)

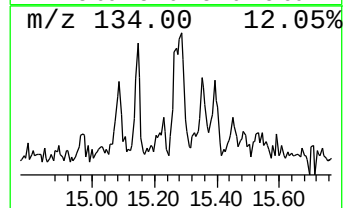
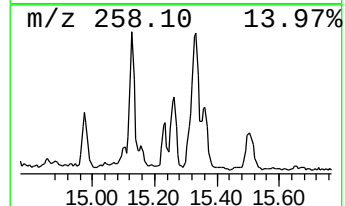
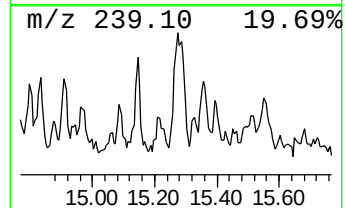
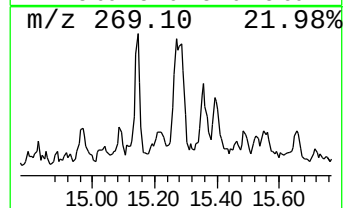
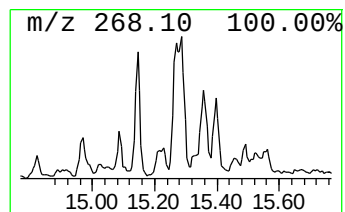
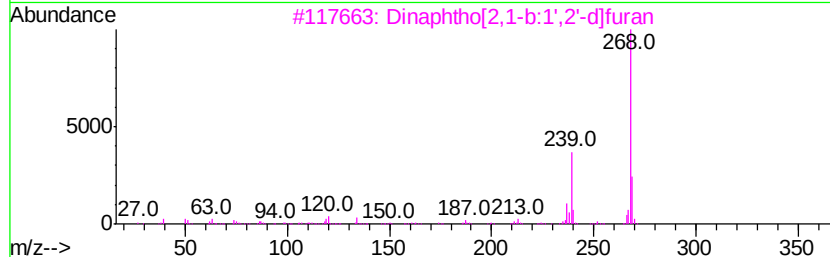
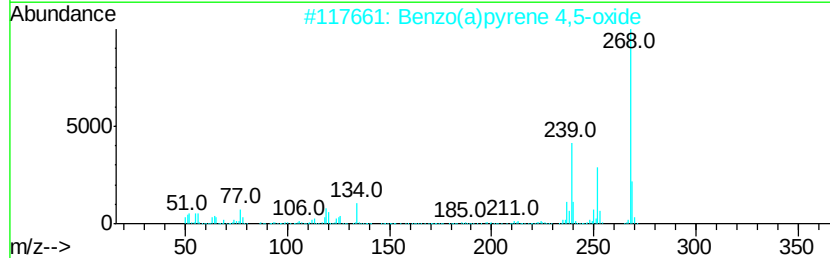
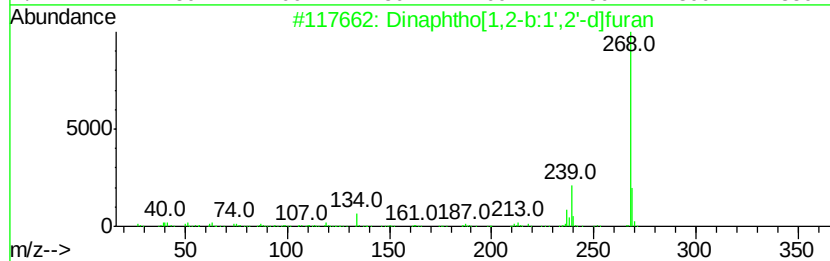
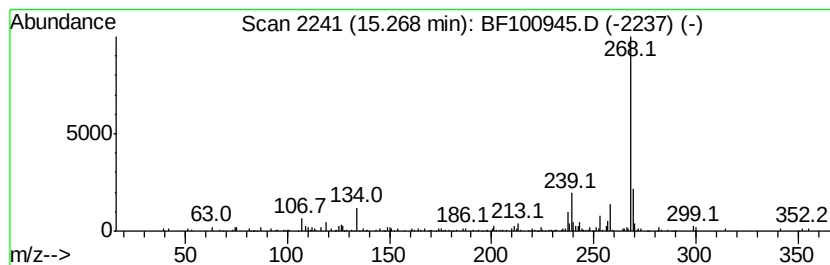
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.27	5.32 ng	103603	Perylene-d12	15.50

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	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	87
3		Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	87
4		4H-1-Benzopyran-4-one, 5-hydroxy...	268	C16H12O4	000520-28-5	59
5		9,10-Anthracenedione, 1,5-dimeth...	268	C16H12O4	006448-90-4	59



Data Path : Z:\HPCHEM1\BNA F\DATA\BF112817\
Data File : BF100945.D
Acq On : 28 Nov 2017 20:20
Operator : SJ/JU
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Misc :
ALS Vial : 24 Sample Multiplier: 1

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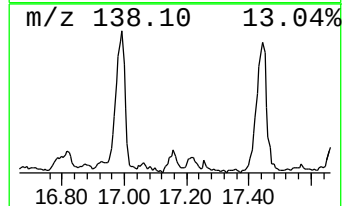
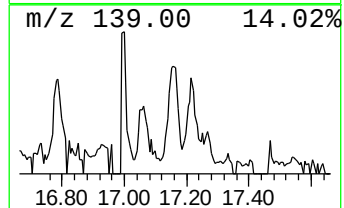
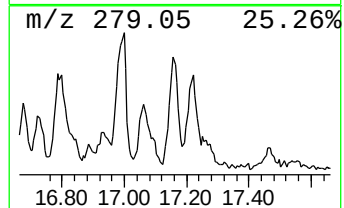
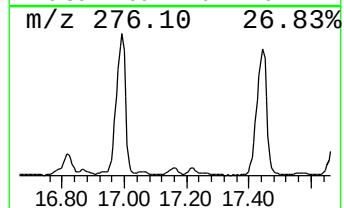
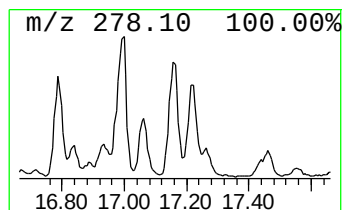
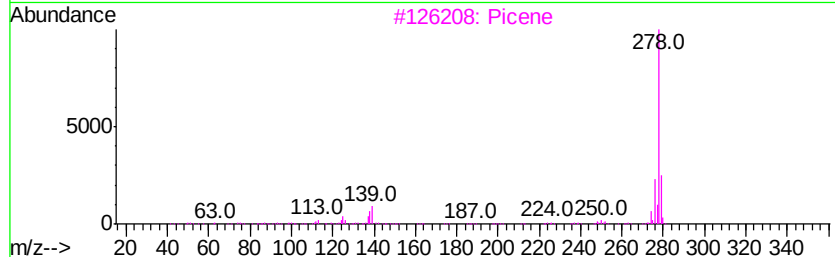
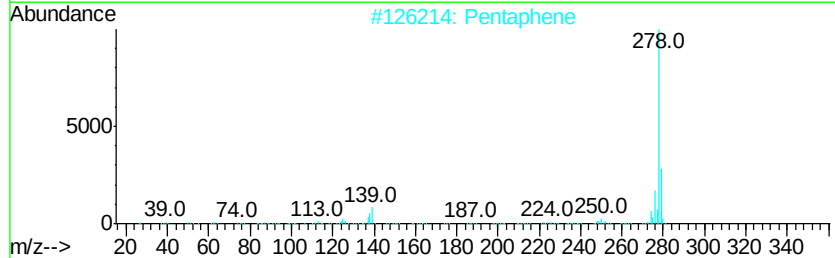
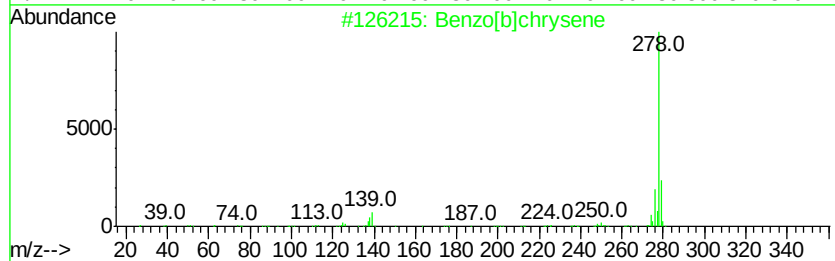
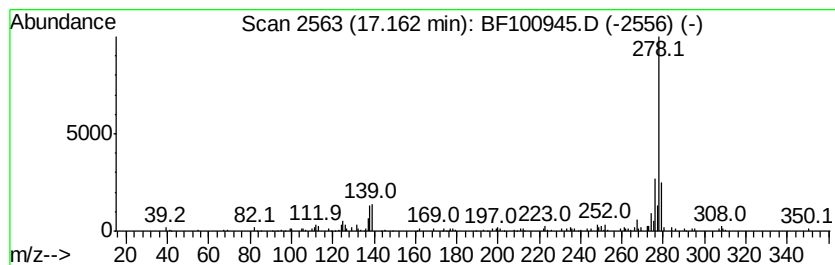
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Benzo[b]chrysene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.16	8.95 ng	174164	Perylene-d12	15.50

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[b]chrysene	278	C22H14	000214-17-5	96
2		Pentaphene	278	C22H14	000222-93-5	96
3		Picene	278	C22H14	000213-46-7	95
4		Dibenz[a,h]anthracene	278	C22H14	000053-70-3	95
5		Benzo[b]triphenylene	278	C22H14	000215-58-7	93



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF112817\
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Operator : SJ/JU
Sample : I6579-02 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
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ClientSampleId :
HAR-4-E(4-5)

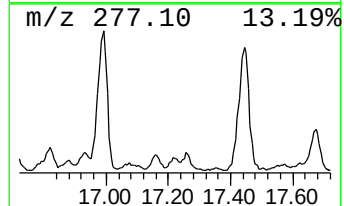
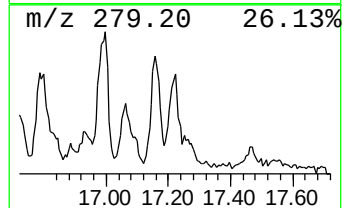
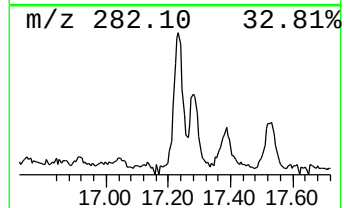
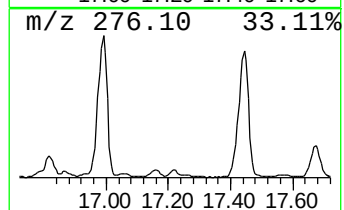
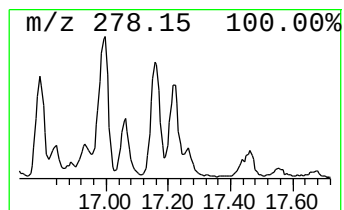
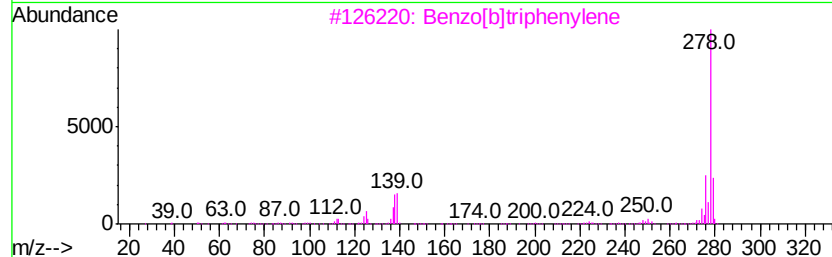
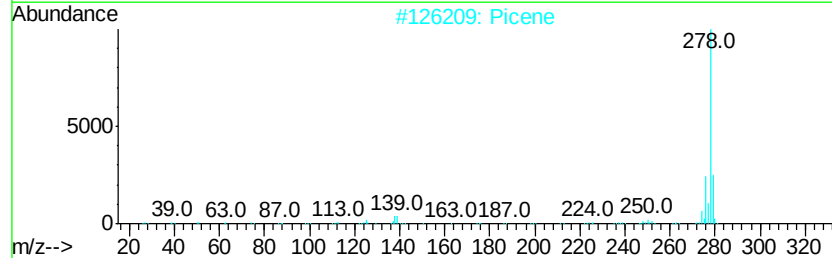
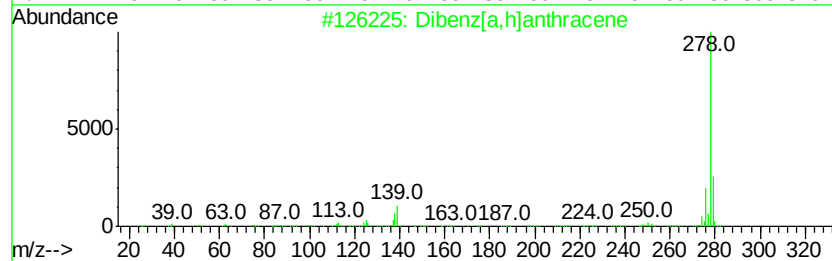
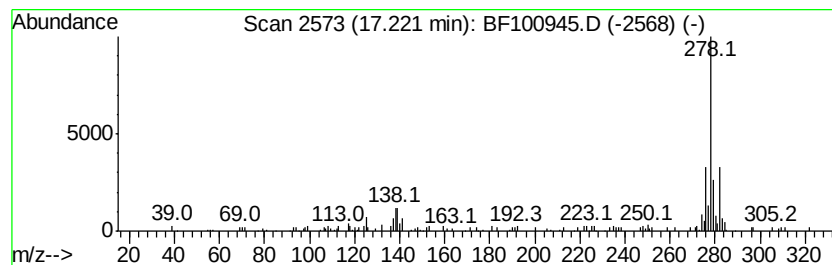
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Dibenz[a,h]anthracene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.22	5.98 ng	116285	Perylene-d12	15.50

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	96
2		Picene	278	C22H14	000213-46-7	93
3		Benzo[b]triphenylene	278	C22H14	000215-58-7	92
4		Pentacene	278	C22H14	000135-48-8	83
5		Pentaphene	278	C22H14	000222-93-5	83



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF112817\
Data File : BF100945.D
Acq On : 28 Nov 2017 20:20
Operator : SJ/JU
Sample : I6579-02 5X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
HAR-4-E(4-5)

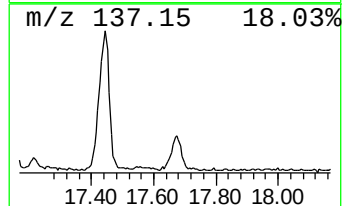
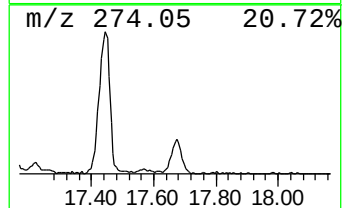
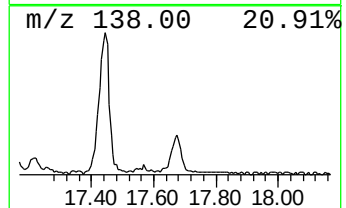
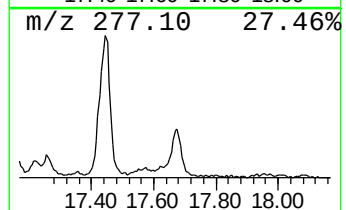
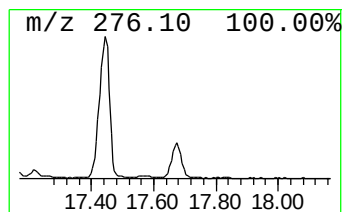
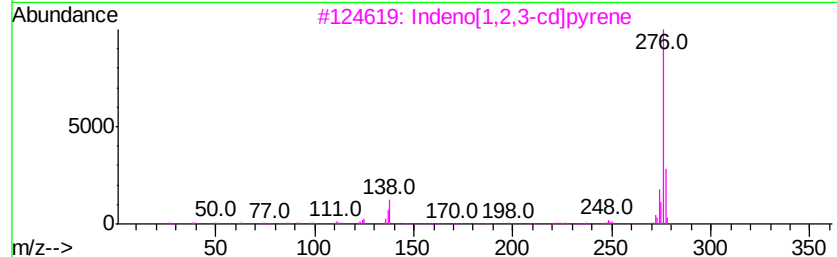
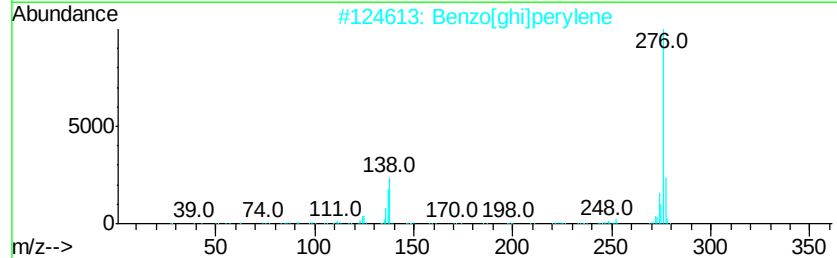
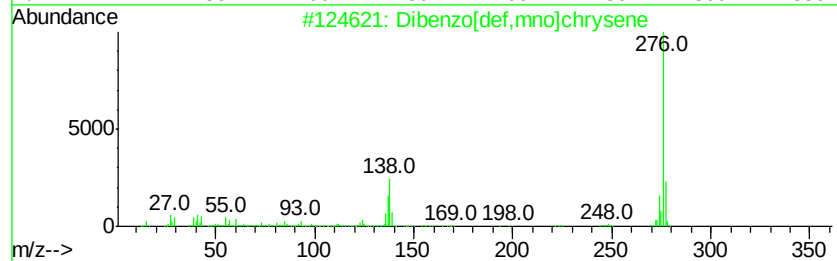
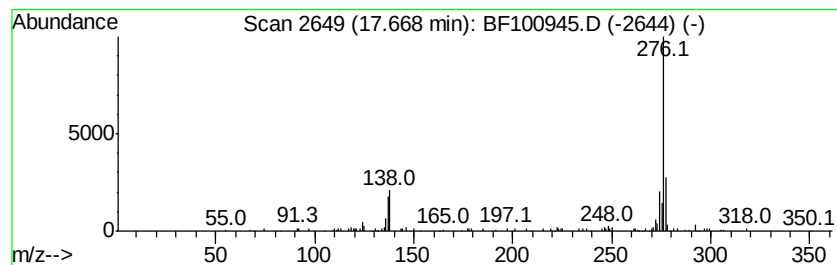
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Dibenzo[def,mno]chrysene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.67	8.36 ng	162717	Perylene-d12	15.50

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	96
2		Benzo[ghi]perylene	276	C22H12	000191-24-2	93
3		Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	91
4		Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	90
5		1H-Cyclopenta[4,5]pyrido[1,2-a]b...	276	C17H16N4	329707-31-5	50



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF112817\
 Data File : BF100945.D
 Acq On : 28 Nov 2017 20:20
 Operator : SJ/JU
 Sample : I6579-02 5X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HAR-4-E(4-5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110817.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
unknown6.62	6.62	13.6	ng	234587	1	6.86	344952	20.0
9H-Fluoren-9-one	11.19	4.1	ng	69938	4	11.38	338135	20.0
Naphtho[1,2-b]thi...	11.27	4.8	ng	81672	4	11.38	338135	20.0
Anthracene, 2-met...	11.88	8.4	ng	141862	4	11.38	338135	20.0
Phenanthrene, 2-m...	11.91	11.9	ng	201886	4	11.38	338135	20.0
Phenanthrene, 1-m...	11.96	6.3	ng	105870	4	11.38	338135	20.0
4H-Cyclopenta[def...	12.00	16.8	ng	283895	4	11.38	338135	20.0
9,10-Bis(bromomet...	12.17	7.5	ng	126708	4	11.38	338135	20.0
9,10-Anthracenedione	12.20	4.9	ng	82841	4	11.38	338135	20.0
Phenanthrene, 2,5...	12.43	7.2	ng	121588	4	11.38	338135	20.0
unknown12.47	12.47	5.7	ng	97059	4	11.38	338135	20.0
Cyclopenta(def)ph...	12.52	9.2	ng	155998	4	11.38	338135	20.0
Plumbane, trimeth...	14.91	10.0	ng	195272	6	15.50	389185	20.0
Benzo[e]pyrene	15.18	12.7	ng	247856	6	15.50	389185	20.0
Dinaphtho[1,2-b:1...	15.27	5.3	ng	103603	6	15.50	389185	20.0
Benzo[b]chrysene	17.16	8.9	ng	174164	6	15.50	389185	20.0
Dibenz[a,h]anthra...	17.22	6.0	ng	116285	6	15.50	389185	20.0
Dibenzo[def,mno]c...	17.67	8.4	ng	162717	6	15.50	389185	20.0