

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
 Data File : BF113807.D
 Acq On : 16 Apr 2019 21:47
 Operator : JU/SJ
 Sample : K2203-11 2X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-01-041519-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:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.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	5.298	543	546	573	rBV	509684	1000809	44.61%	3.156%
2	6.340	720	723	739	rBV	498629	976320	43.51%	3.079%
3	6.451	739	742	751	rVV	907140	1034603	46.11%	3.262%
4	6.675	777	780	787	rBV	291787	299062	13.33%	0.943%
5	6.828	802	806	818	rBV	867104	851940	37.97%	2.686%
6	7.240	873	876	893	rBV	339413	602599	26.86%	1.900%
7	7.698	948	954	959	rBV6	14881	29997	1.34%	0.095%
8	7.957	992	998	1000	rBV	316808	345061	15.38%	1.088%
9	7.975	1000	1001	1008	rVB	194080	207747	9.26%	0.655%
10	8.551	1096	1099	1102	rBV2	45111	43949	1.96%	0.139%
11	8.669	1117	1119	1126	rBV	148533	173832	7.75%	0.548%
12	8.769	1132	1136	1144	rBV	187916	221166	9.86%	0.697%
13	8.981	1169	1172	1176	rBV2	26163	27723	1.24%	0.087%
14	9.028	1176	1180	1189	rBV	1078087	962734	42.91%	3.036%
15	9.116	1190	1195	1196	rBV	44056	43416	1.94%	0.137%
16	9.228	1212	1214	1219	rVB	36273	48188	2.15%	0.152%
17	9.298	1222	1226	1230	rBV	98463	134592	6.00%	0.424%
18	9.369	1235	1238	1240	rVV	156722	164015	7.31%	0.517%
19	9.398	1240	1243	1246	rVV2	88832	126149	5.62%	0.398%
20	9.434	1246	1249	1255	rVV	109315	143487	6.40%	0.452%
21	9.486	1255	1258	1266	rVB	79589	106707	4.76%	0.336%
22	9.569	1269	1272	1277	rBV	104752	105499	4.70%	0.333%
23	9.639	1281	1284	1288	rVB	55412	44037	1.96%	0.139%
24	9.704	1288	1295	1298	rBV	391804	387552	17.27%	1.222%
25	9.739	1298	1301	1305	rVB	263820	268260	11.96%	0.846%
26	9.816	1310	1314	1318	rVB2	43070	50936	2.27%	0.161%
27	9.863	1318	1322	1324	rBV4	22246	30301	1.35%	0.096%
28	9.916	1326	1331	1335	rVV2	160392	183430	8.18%	0.578%
29	9.951	1335	1337	1341	rVB2	57800	61028	2.72%	0.192%
30	10.022	1346	1349	1353	rBV	56210	68083	3.03%	0.215%
31	10.057	1353	1355	1361	rVB	36859	38168	1.70%	0.120%
32	10.110	1361	1364	1366	rBV2	29973	38787	1.73%	0.122%
33	10.139	1366	1369	1371	rVB2	66567	58467	2.61%	0.184%
34	10.251	1385	1388	1395	rBV	379592	378018	16.85%	1.192%

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Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.316	1395	1399	1401	rBV2	31620	39250	1.75%	0.124%
36	10.410	1412	1415	1418	rVB	44419	48942	2.18%	0.154%
37	10.498	1427	1430	1441	rVB2	487629	635384	28.32%	2.004%
38	10.610	1446	1449	1457	rVB2	74362	114451	5.10%	0.361%
39	10.686	1457	1462	1465	rBV5	17619	26510	1.18%	0.084%
40	10.804	1477	1482	1484	rBV2	77884	102285	4.56%	0.323%
41	10.828	1484	1486	1490	rVV2	53965	60319	2.69%	0.190%
42	10.880	1493	1495	1498	rVB	44860	37341	1.66%	0.118%
43	11.057	1520	1525	1527	rBV3	56226	66483	2.96%	0.210%
44	11.086	1527	1530	1535	rVB	231171	213395	9.51%	0.673%
45	11.186	1544	1547	1549	rBV	452098	422817	18.84%	1.333%
46	11.210	1549	1551	1556	rVV	1887983	1783524	79.49%	5.624%
47	11.269	1557	1561	1565	rVB	475151	482458	21.50%	1.521%
48	11.357	1573	1576	1580	rVB2	28597	44145	1.97%	0.139%
49	11.433	1585	1589	1594	rVV	142543	167698	7.47%	0.529%
50	11.480	1594	1597	1599	rVV	111934	95417	4.25%	0.301%
51	11.522	1599	1604	1609	rVV2	99608	133699	5.96%	0.422%
52	11.580	1610	1614	1617	rVV	794148	662044	29.51%	2.088%
53	11.604	1617	1618	1622	rVB	62233	50655	2.26%	0.160%
54	11.686	1629	1632	1635	rBV	239225	242950	10.83%	0.766%
55	11.722	1635	1638	1643	rVV	328482	356256	15.88%	1.123%
56	11.769	1643	1646	1648	rVV	103792	104091	4.64%	0.328%
57	11.798	1648	1651	1654	rVV	458461	491901	21.92%	1.551%
58	11.827	1654	1656	1661	rVB	157221	141216	6.29%	0.445%
59	11.886	1663	1666	1669	rVB2	43239	36060	1.61%	0.114%
60	11.980	1679	1682	1687	rBV	161065	169031	7.53%	0.533%
61	12.133	1706	1708	1711	rVB	49918	31497	1.40%	0.099%
62	12.169	1711	1714	1716	rBV	65146	63171	2.82%	0.199%
63	12.192	1716	1718	1722	rVB2	50019	47696	2.13%	0.150%
64	12.239	1722	1726	1727	rBV	165504	153667	6.85%	0.485%
65	12.263	1727	1730	1732	rVV	2063968	1958090	87.27%	6.175%
66	12.286	1732	1734	1737	rVV	2634048	2243661	100.00%	7.075%
67	12.333	1740	1742	1745	rVB2	70111	73725	3.29%	0.232%
68	12.369	1745	1748	1750	rBV	328587	254107	11.33%	0.801%
69	12.404	1750	1754	1757	rBV	1735504	1612010	71.85%	5.083%
70	12.498	1768	1770	1776	rVB2	44299	63717	2.84%	0.201%
71	12.551	1776	1779	1782	rVV2	121232	113199	5.05%	0.357%

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72	12.627	1786	1792	1799	rVV	1758523	2043905	91.10%	6.445%
73	12.686	1799	1802	1805	rVB2	77820	85862	3.83%	0.271%
74	12.769	1811	1816	1819	rBV	1100216	1118111	49.83%	3.526%
75	12.851	1826	1830	1834	rBV2	121116	213538	9.52%	0.673%
76	12.957	1841	1848	1852	rBV	279725	467264	20.83%	1.473%
77	13.022	1857	1859	1862	rVV	266642	246071	10.97%	0.776%
78	13.063	1863	1866	1869	rVV2	206392	216547	9.65%	0.683%
79	13.092	1869	1871	1874	rVB2	70836	60821	2.71%	0.192%
80	13.157	1879	1882	1884	rBV	125784	121923	5.43%	0.384%
81	13.186	1884	1887	1896	rVB	135227	183620	8.18%	0.579%
82	13.339	1910	1913	1915	rBV	65986	68863	3.07%	0.217%
83	13.445	1928	1931	1933	rBV2	50983	65608	2.92%	0.207%
84	13.580	1951	1954	1956	rBV	130086	139600	6.22%	0.440%
85	13.598	1956	1957	1960	rVB	124895	82271	3.67%	0.259%
86	13.633	1960	1963	1964	rBV	88006	85934	3.83%	0.271%
87	13.757	1980	1984	1989	rBV2	69173	109033	4.86%	0.344%
88	13.821	1991	1995	1998	rVV2	849420	1220340	54.39%	3.848%
89	13.851	1998	2000	2004	rVB	619294	578214	25.77%	1.823%
90	13.933	2012	2014	2018	rVB	143822	118186	5.27%	0.373%
91	14.216	2057	2062	2066	rBV3	138479	219259	9.77%	0.691%
92	14.286	2071	2074	2077	rBV3	106764	123904	5.52%	0.391%
93	14.845	2165	2169	2172	rBV	425084	559336	24.93%	1.764%
94	14.951	2184	2187	2191	rBV	92440	105286	4.69%	0.332%
95	15.127	2214	2217	2220	rBV	231732	224677	10.01%	0.708%
96	15.186	2224	2227	2231	rVB	345951	356335	15.88%	1.124%
97	15.239	2233	2236	2240	rVB2	261673	298223	13.29%	0.940%

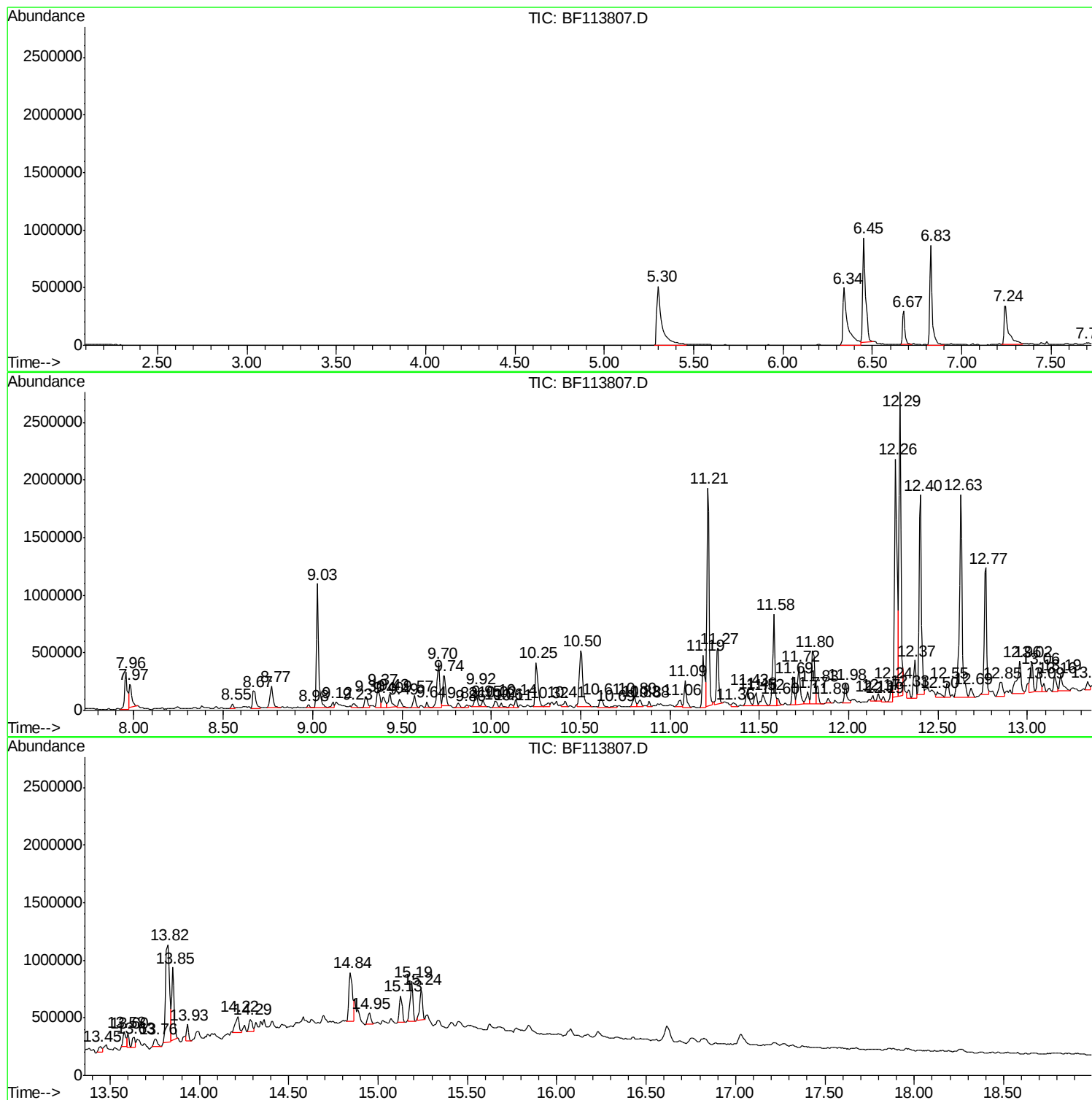
Sum of corrected areas: 31712255

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.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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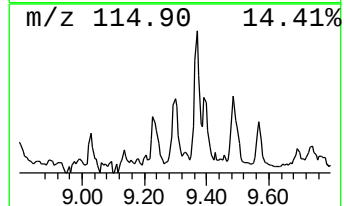
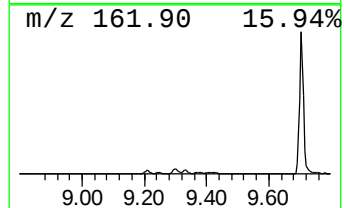
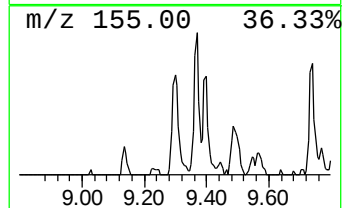
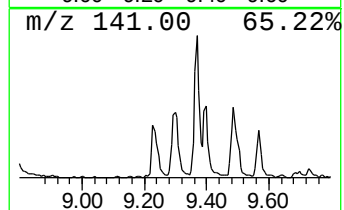
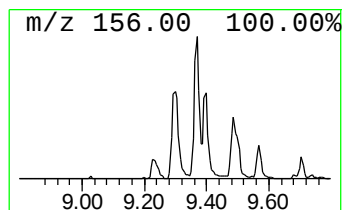
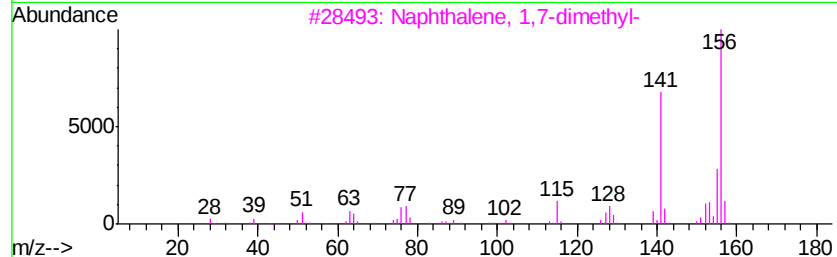
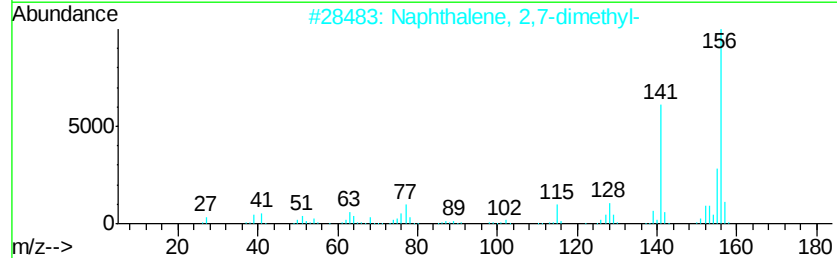
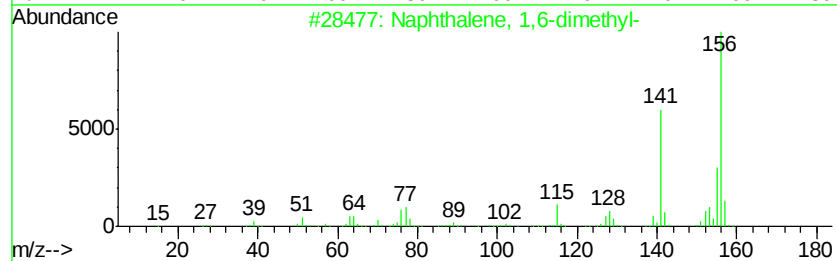
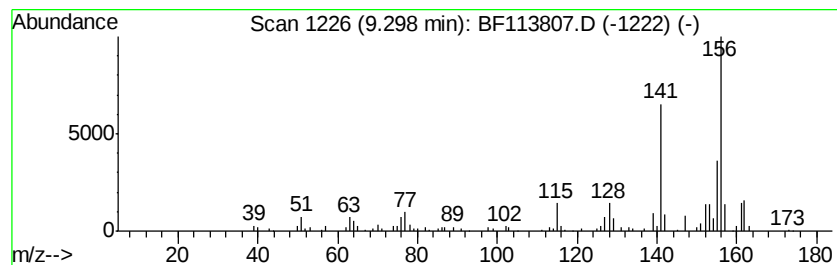
Instrument :
BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 Naphthalene, 1,6-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD		R.T.
9.30	6.95 ng	134592	Acenaphthene-d10		9.70
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
2	Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
3	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
4	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96



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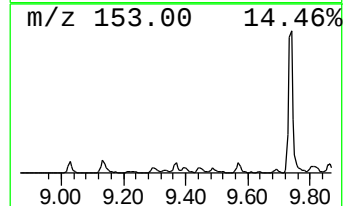
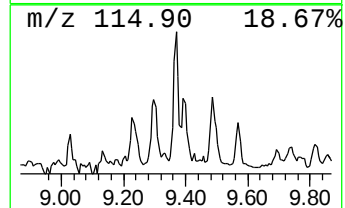
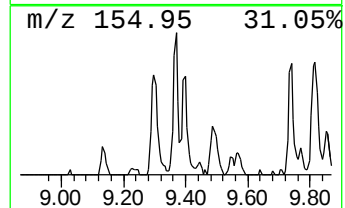
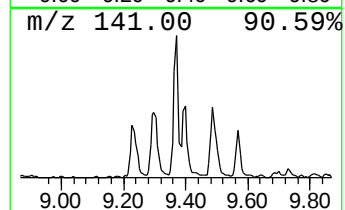
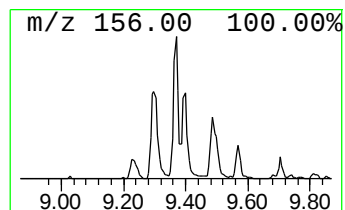
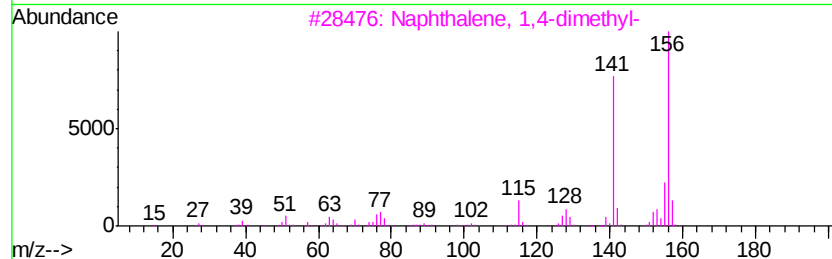
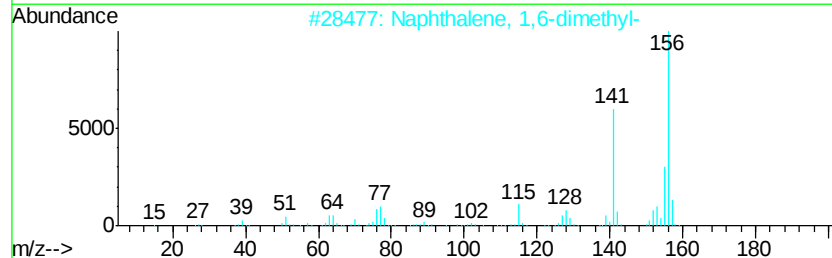
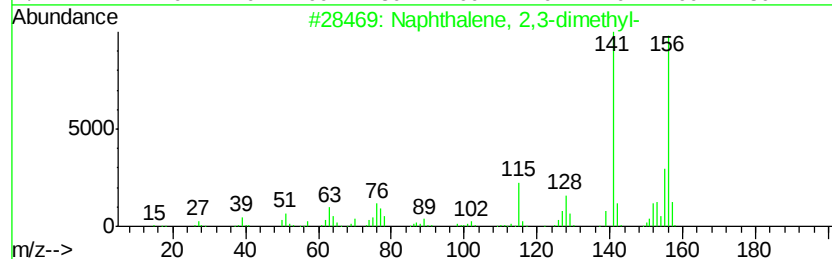
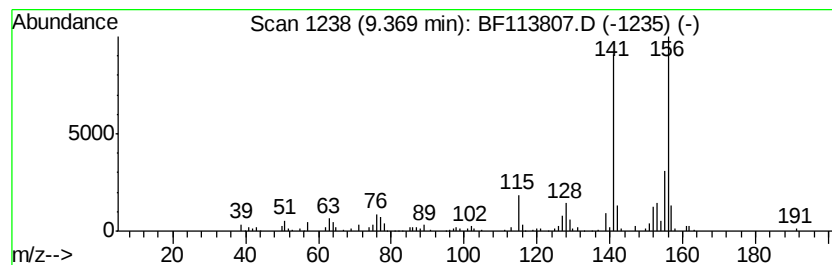
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Naphthalene, 2,3-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.37	8.46 ng	164015	Acenaphthene-d10	9.70

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2		Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
3		Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
4		Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
5		Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97



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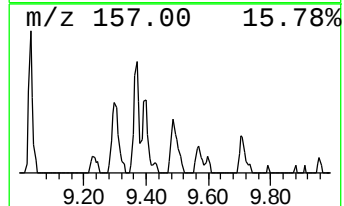
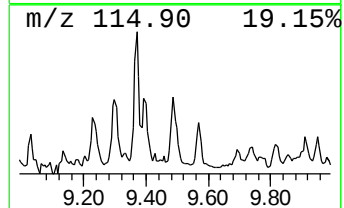
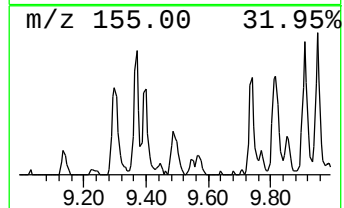
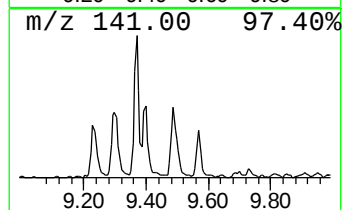
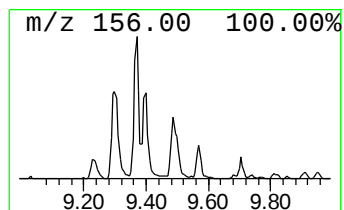
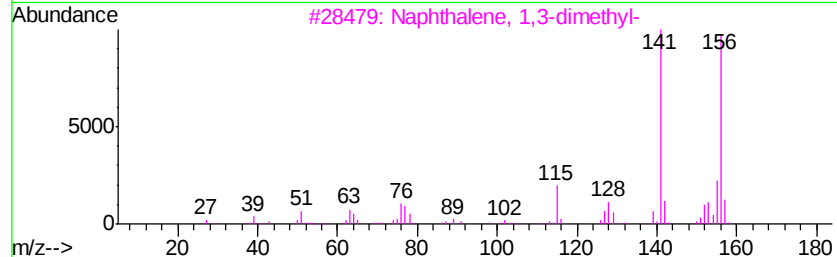
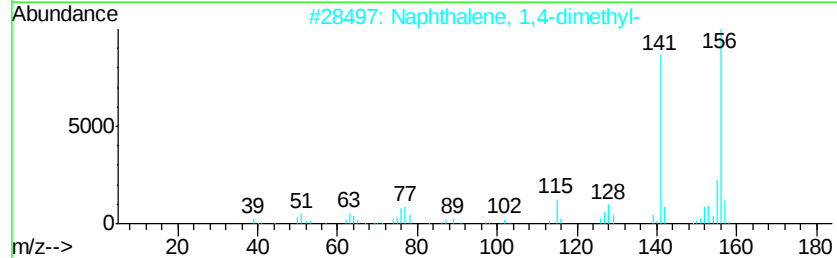
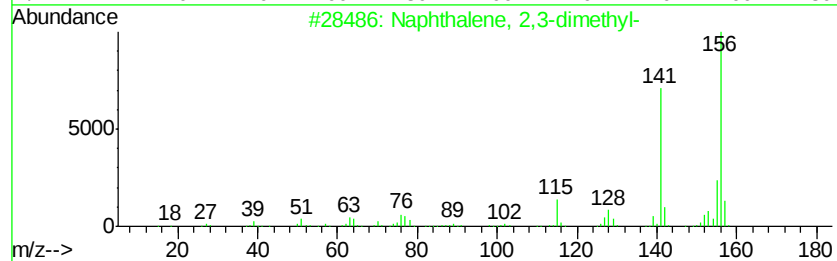
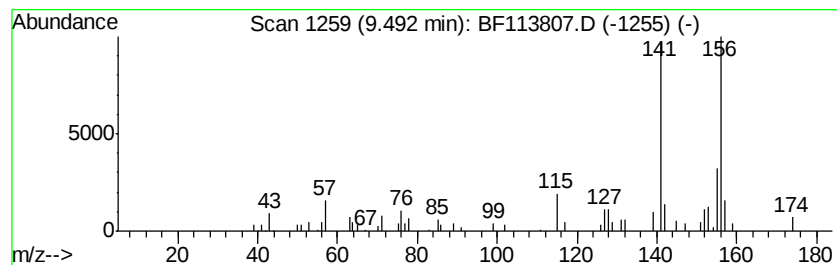
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Naphthalene, 1,4-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD		R.T.
9.49	5.51 ng	106707	Acenaphthene-d10		9.70
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96
3	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	95
4	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	94
5	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	94



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113807.D
Acq On : 16 Apr 2019 21:47
Operator : JU/SJ
Sample : K2203-11 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-01-041519-B

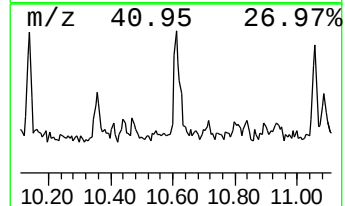
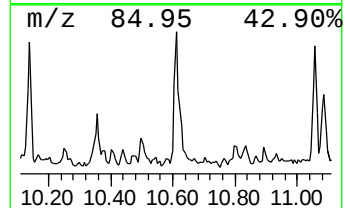
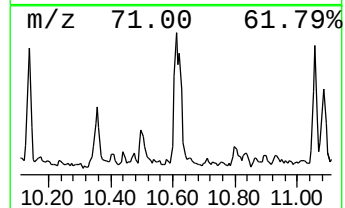
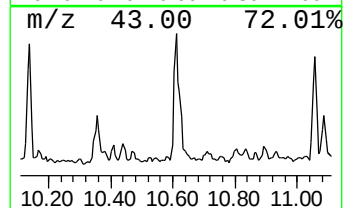
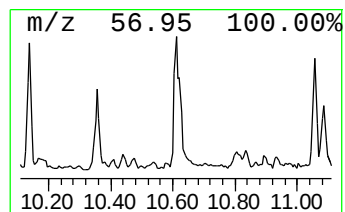
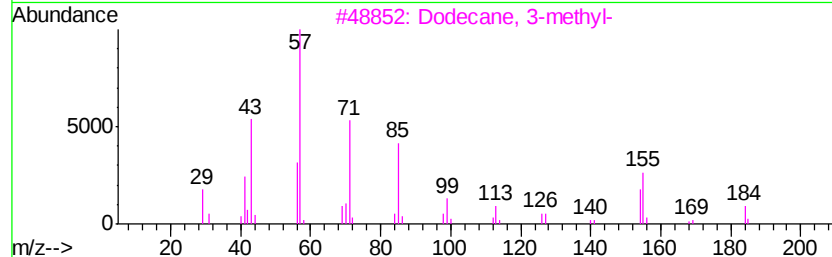
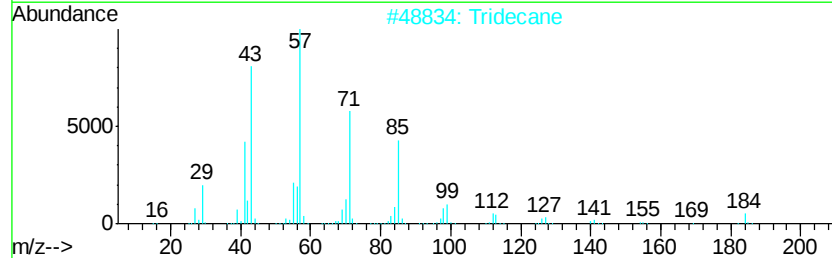
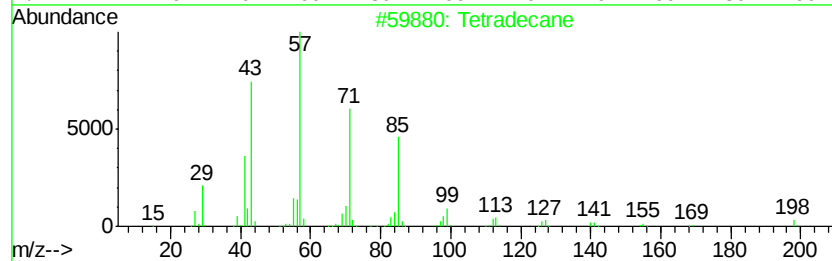
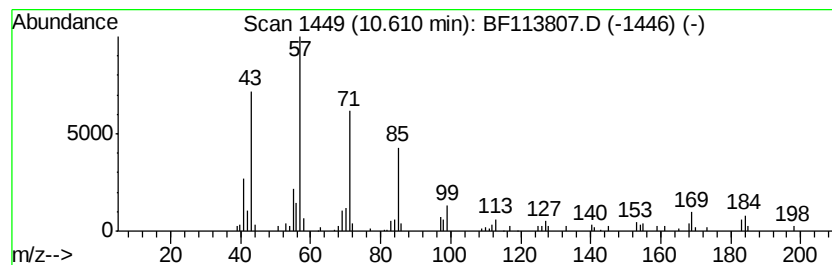
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Tetradecane Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.61	5.41 ng	114451	Phenanthrene-d10	11.19

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	95
2	Tridecane	184	C13H28	000629-50-5	81
3	Dodecane, 3-methyl-	184	C13H28	017312-57-1	74
4	Tetracosane	338	C24H50	000646-31-1	74
5	Heptadecane	240	C17H36	000629-78-7	74



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113807.D
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Operator : JU/SJ
Sample : K2203-11 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

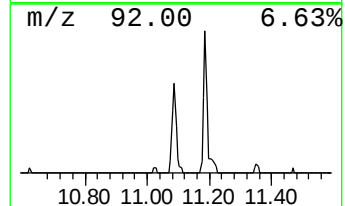
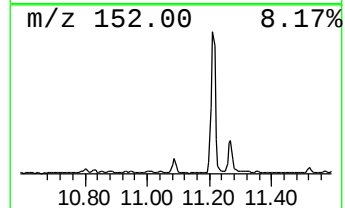
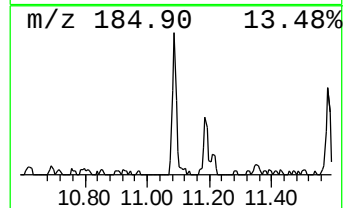
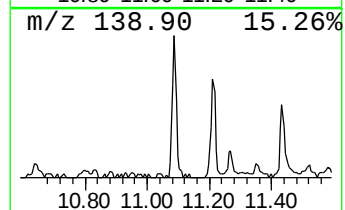
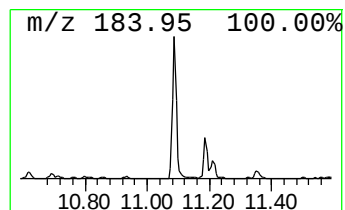
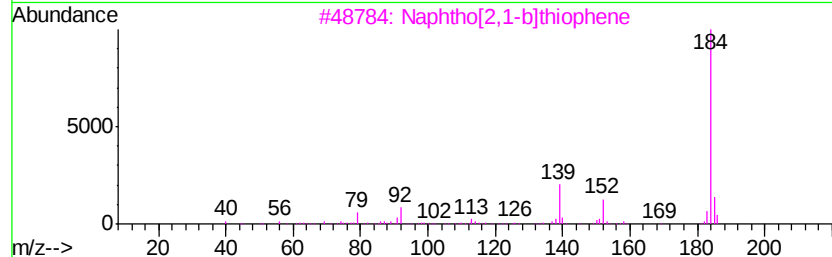
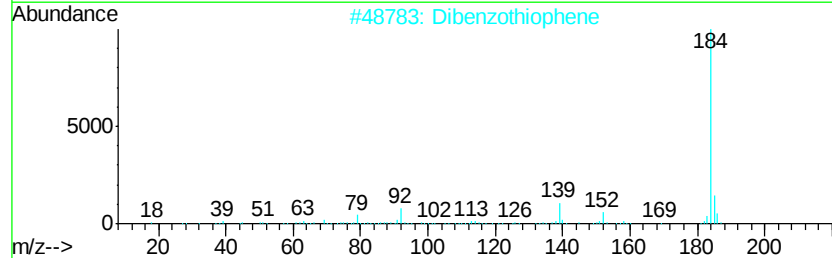
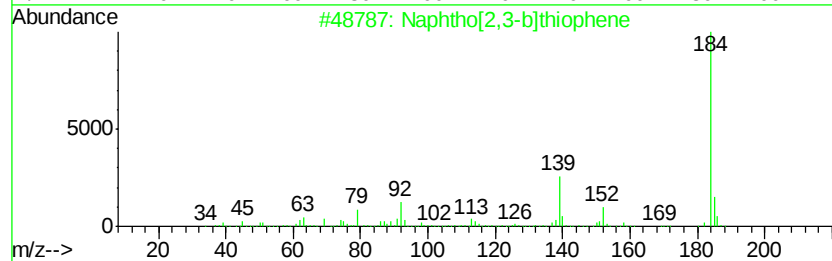
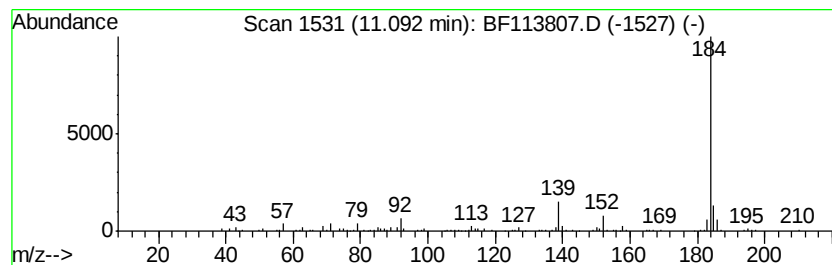
Instrument :
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ClientSampleId :
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Naphtho[2,3-b]thiophene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.09	10.09 ng	213395	Phenanthrene-d10	11.19	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
2	Dibenzothiophene	184	C12H8S	000132-65-0	95
3	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
5	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	72



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113807.D
Acq On : 16 Apr 2019 21:47
Operator : JU/SJ
Sample : K2203-11 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

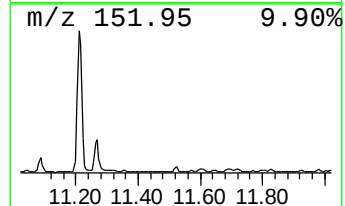
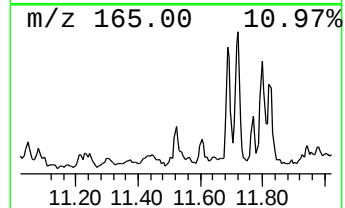
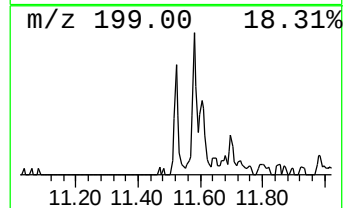
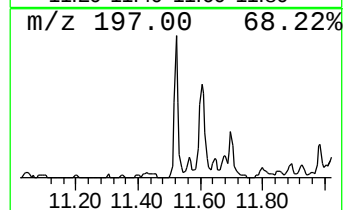
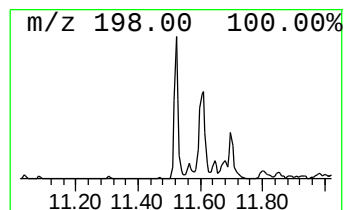
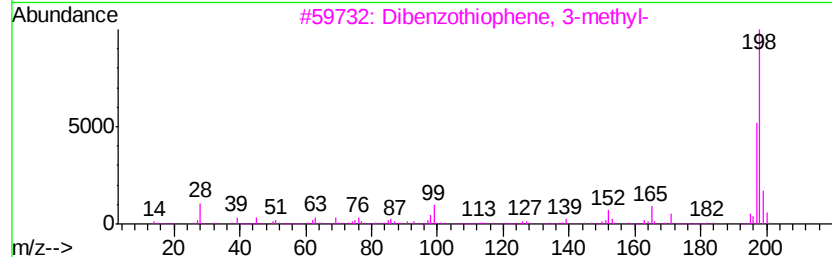
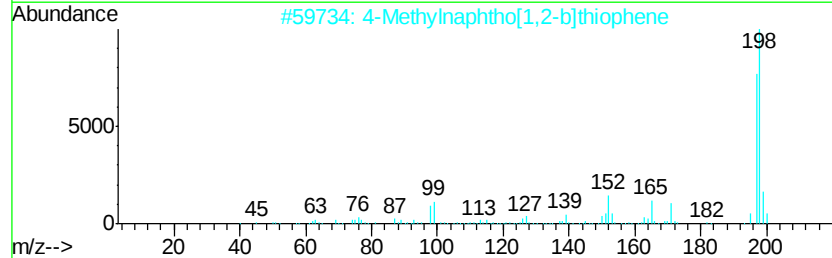
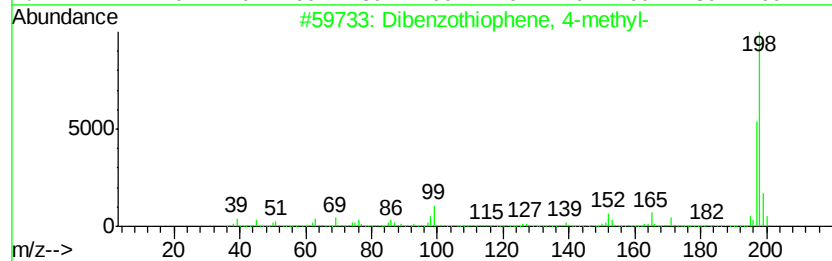
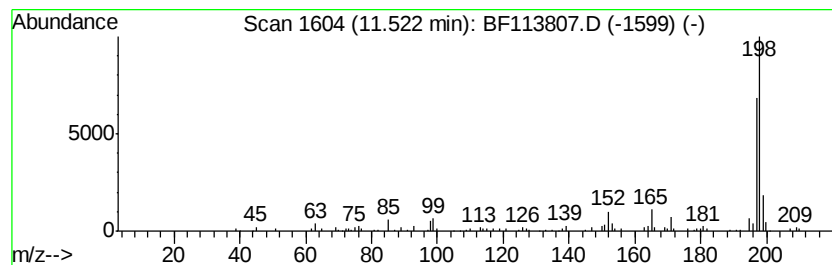
Instrument :
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ClientSampleId :
SU-01-041519-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Dibenzothiophene, 4-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.52	6.32 ng	133699	Phenanthrene-d10	11.19	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	97
2	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	97
3	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	97
4	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	97
5	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	80



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113807.D
Acq On : 16 Apr 2019 21:47
Operator : JU/SJ
Sample : K2203-11 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
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ClientSampleId :
SU-01-041519-B

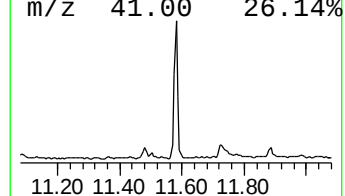
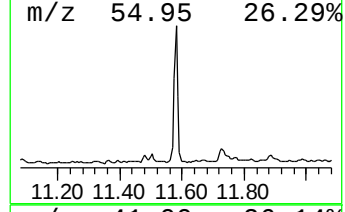
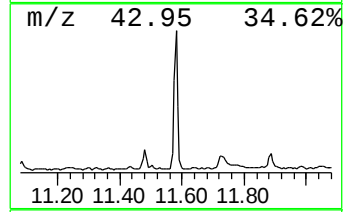
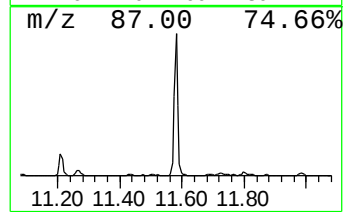
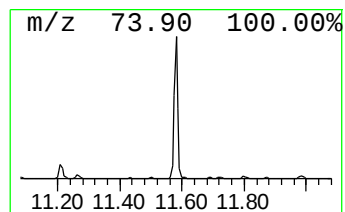
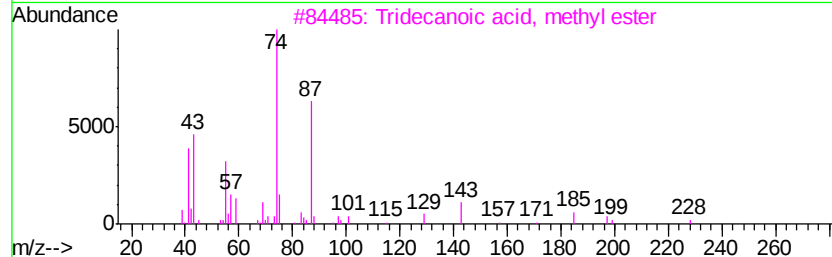
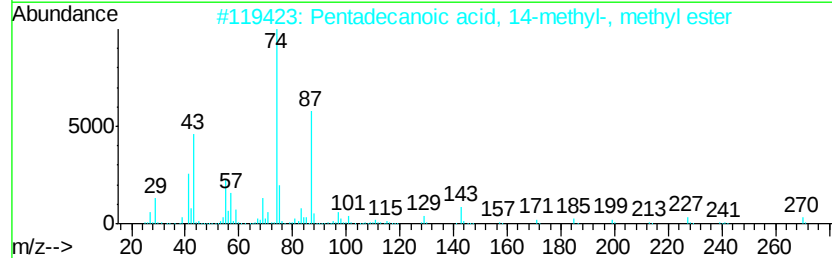
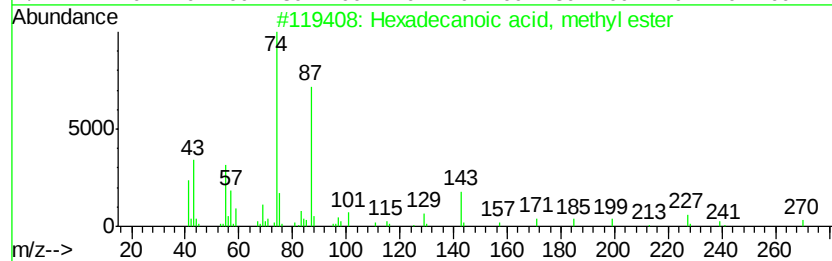
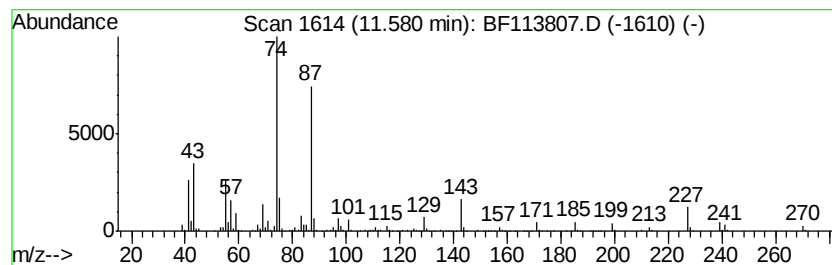
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Hexadecanoic acid, methyl e... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.58	31.32 ng	662044	Phenanthrene-d10	11.19

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Hexadecanoic acid, methyl ester	270	C17H34O2	000112-39-0	98
2		Pentadecanoic acid, 14-methyl-, ...	270	C17H34O2	005129-60-2	96
3		Tridecanoic acid, methyl ester	228	C14H28O2	001731-88-0	90
4		Hexadecanoic acid, 15-methyl-, m...	284	C18H36O2	006929-04-0	87
5		Pentadecanoic acid, methyl ester	256	C16H32O2	007132-64-1	86



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
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Sample : K2203-11 2X
Misc :
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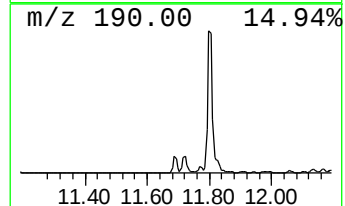
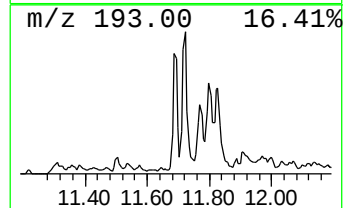
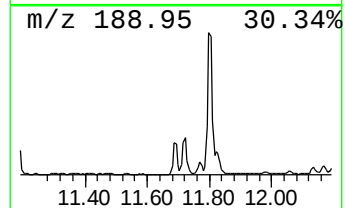
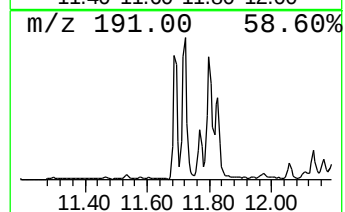
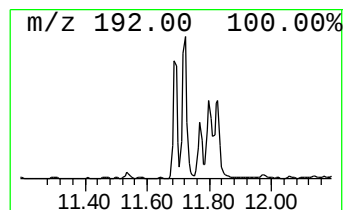
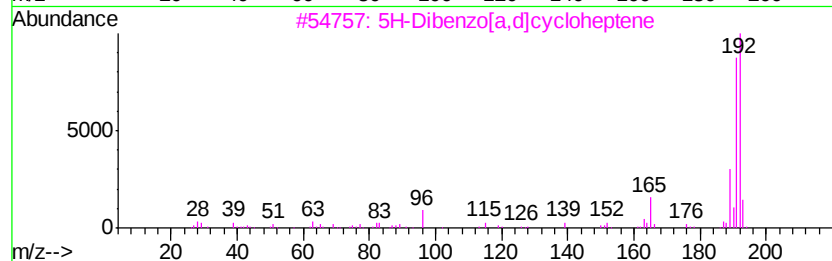
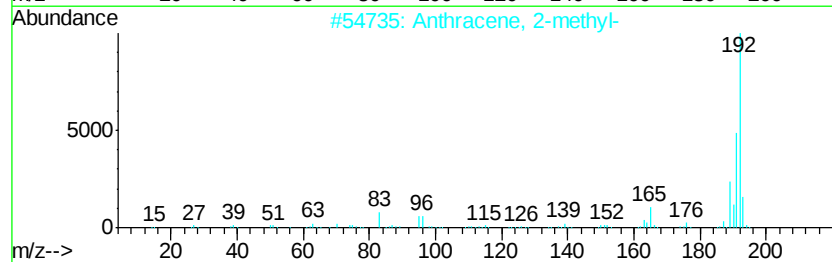
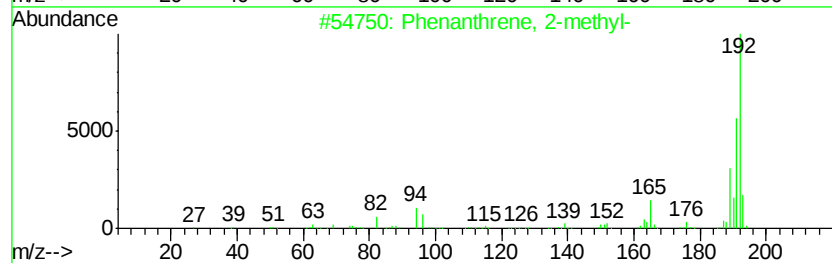
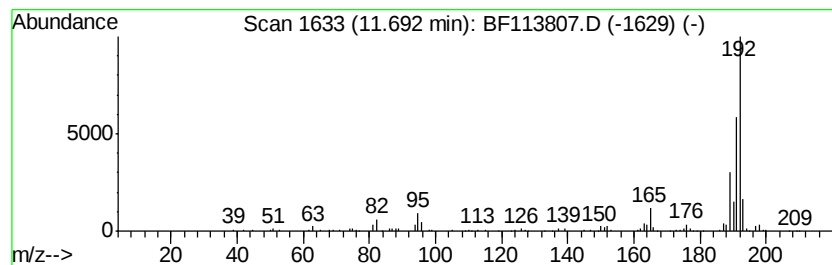
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.69	11.49 ng	242950	Phenanthrene-d10	11.19	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	94
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113807.D
Acq On : 16 Apr 2019 21:47
Operator : JU/SJ
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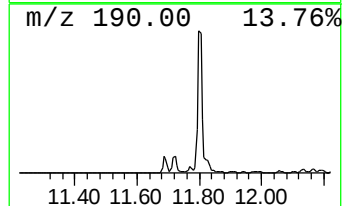
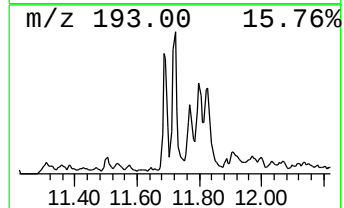
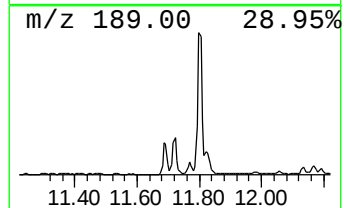
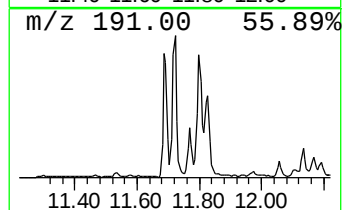
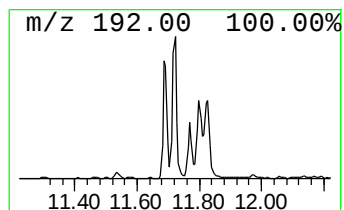
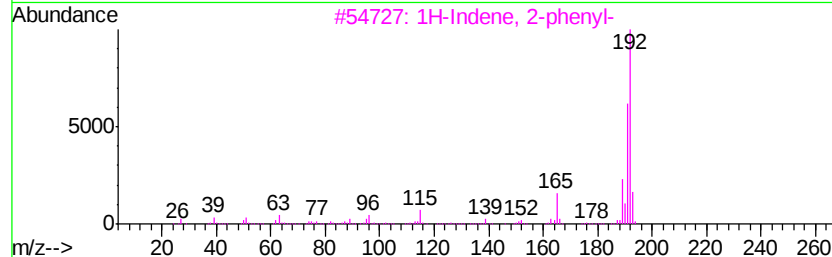
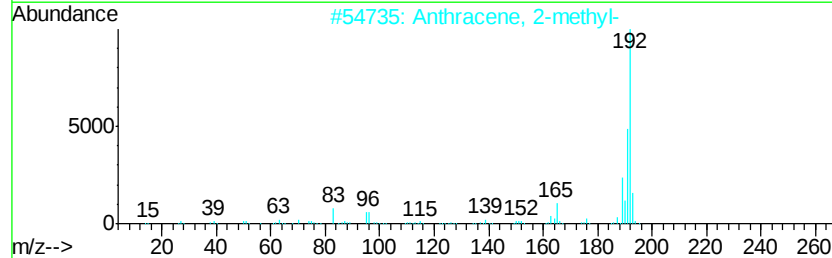
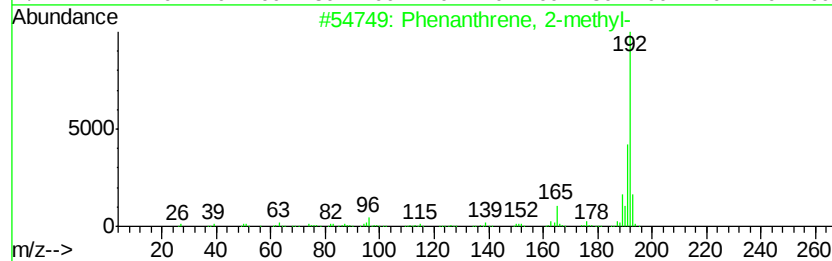
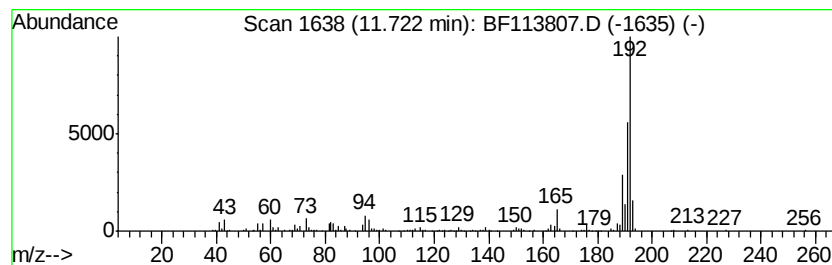
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Anthracene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.72	16.85 ng	356256	Phenanthrene-d10	11.19

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2		Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3		1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94
4		Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	94
5		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113807.D
Acq On : 16 Apr 2019 21:47
Operator : JU/SJ
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Misc :
ALS Vial : 24 Sample Multiplier: 1

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ClientSampleId :
SU-01-041519-B

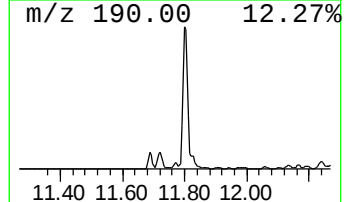
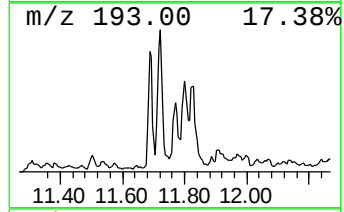
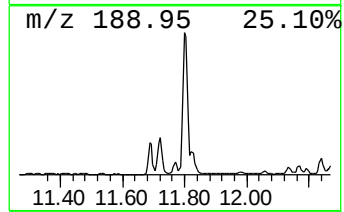
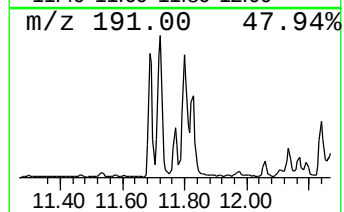
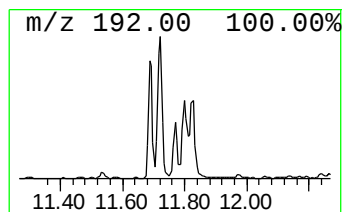
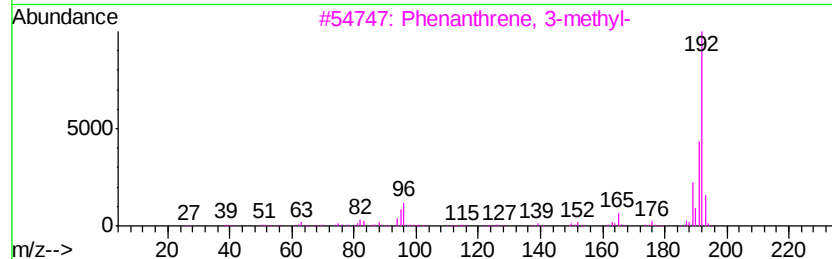
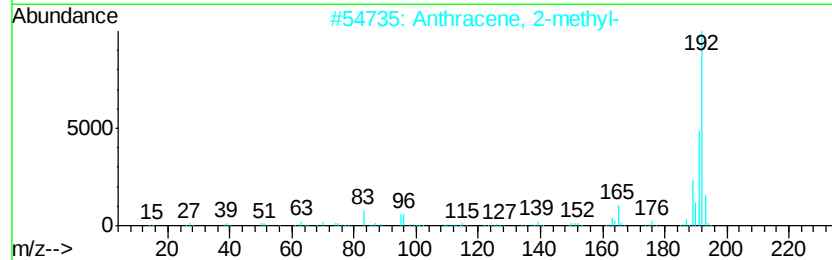
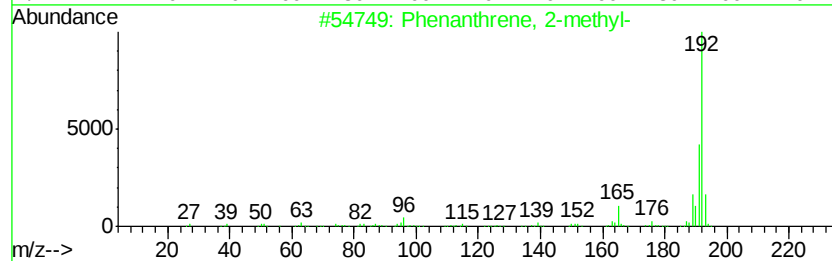
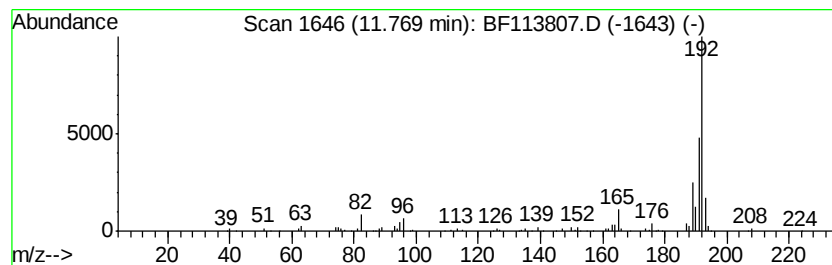
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Phenanthrene, 3-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.77	4.92 ng	104091	Phenanthrene-d10	11.19

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
2		Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
3		Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93
4		1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	93
5		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113807.D
Acq On : 16 Apr 2019 21:47
Operator : JU/SJ
Sample : K2203-11 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-01-041519-B

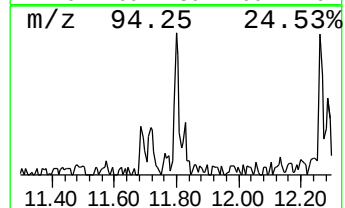
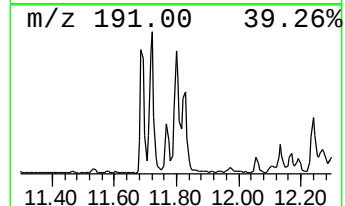
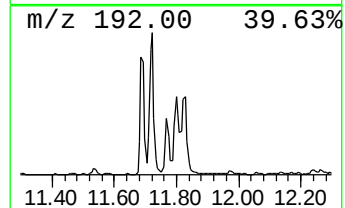
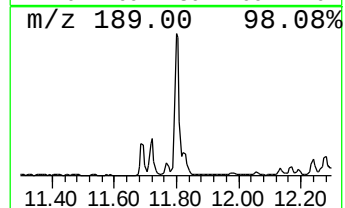
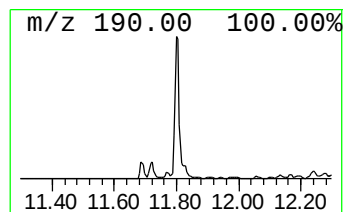
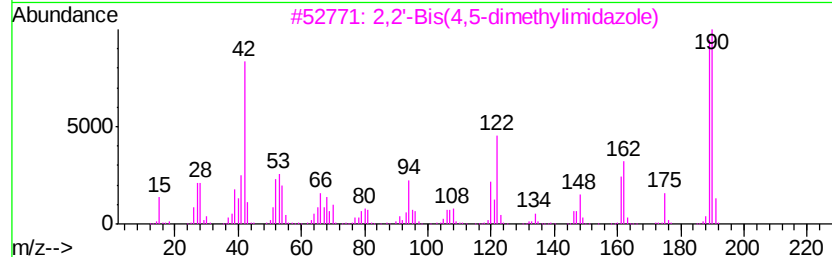
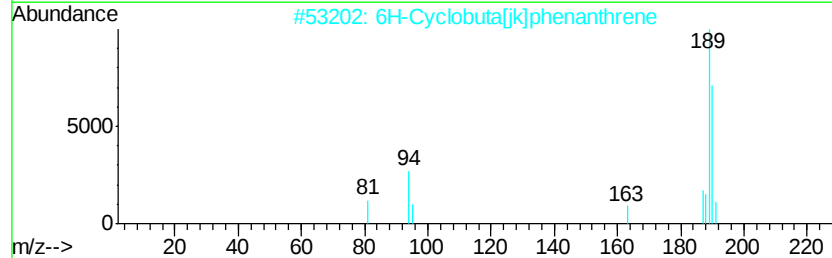
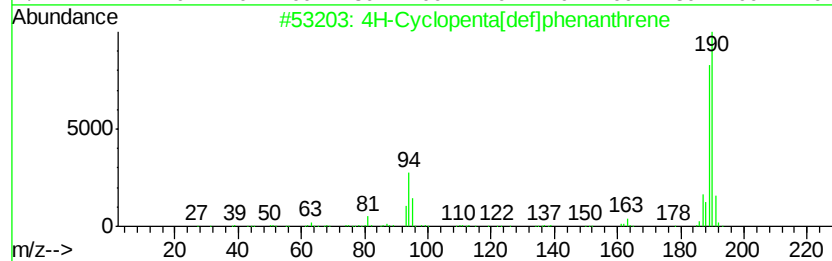
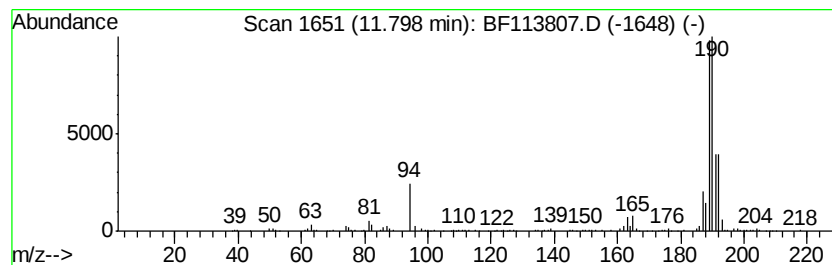
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.80	23.27 ng	491901	Phenanthrene-d10	11.19

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2		6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	40
3		2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	40
4		2,6-Dichlorobenzaldoxime	189	C7H5Cl2NO	025185-95-9	30
5		1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	25



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113807.D
Acq On : 16 Apr 2019 21:47
Operator : JU/SJ
Sample : K2203-11 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-01-041519-B

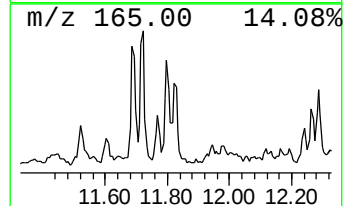
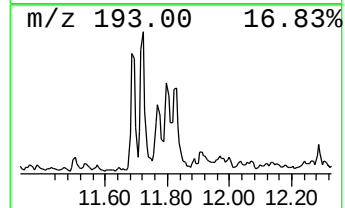
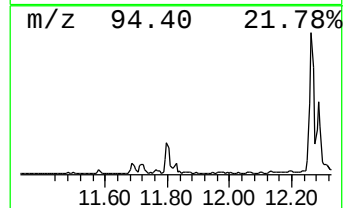
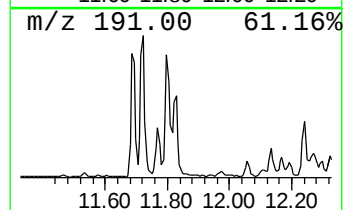
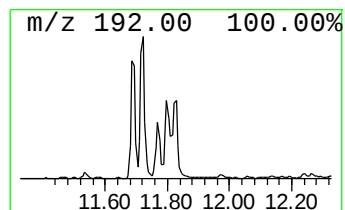
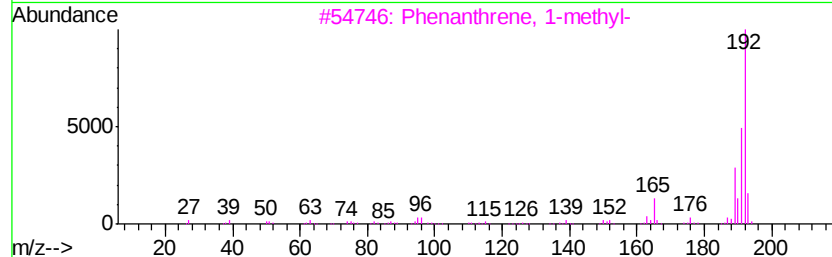
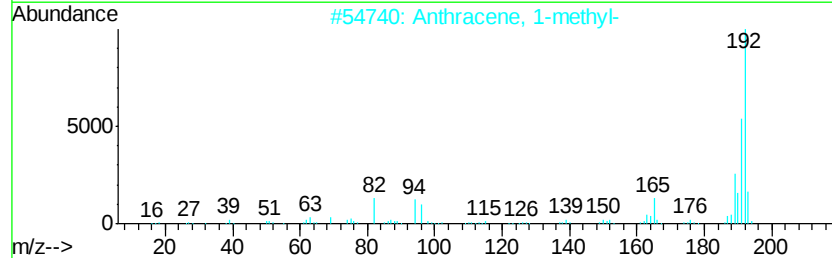
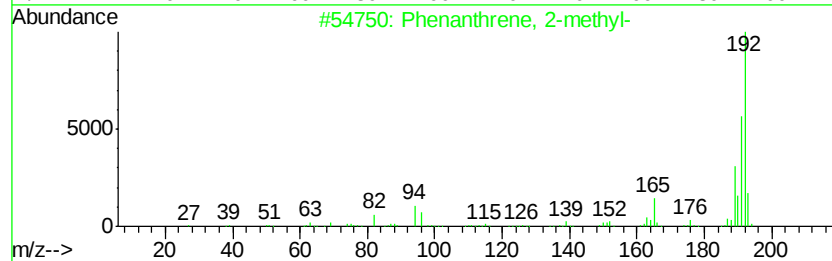
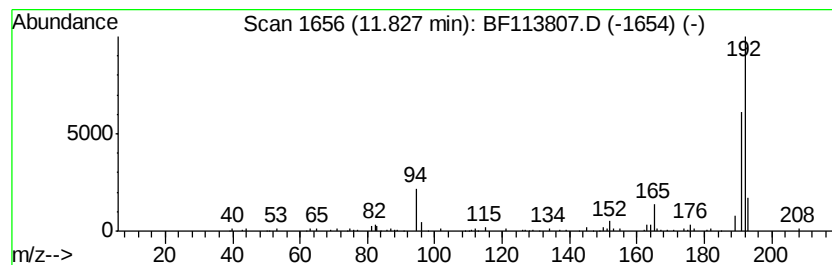
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Anthracene, 9-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.83	6.68 ng	141216	Phenanthrene-d10	11.19

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	87
2			Anthracene, 1-methyl-	192	C15H12	000610-48-0	80
3			Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	74
4			Anthracene, 2-methyl-	192	C15H12	000613-12-7	74
5			Anthracene, 9-methyl-	192	C15H12	000779-02-2	74



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113807.D
Acq On : 16 Apr 2019 21:47
Operator : JU/SJ
Sample : K2203-11 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

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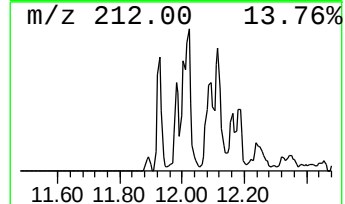
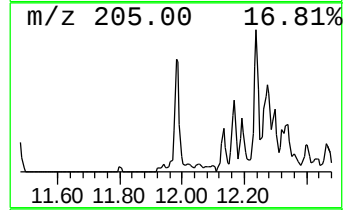
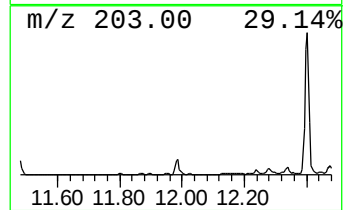
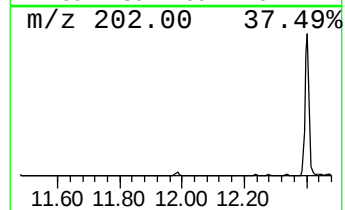
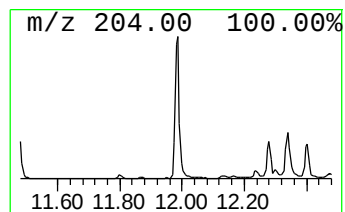
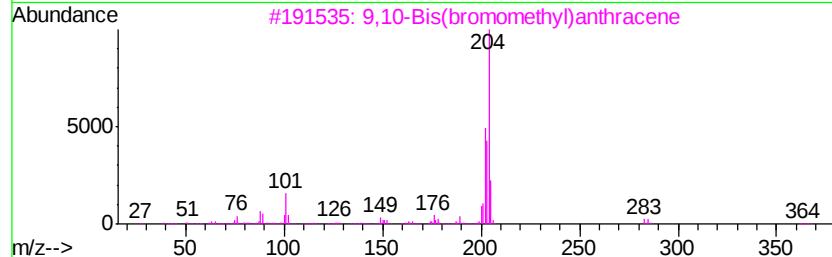
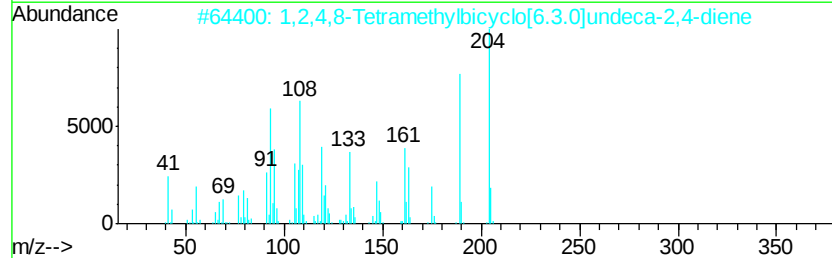
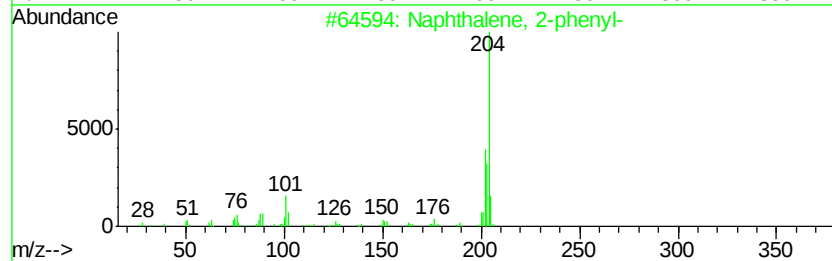
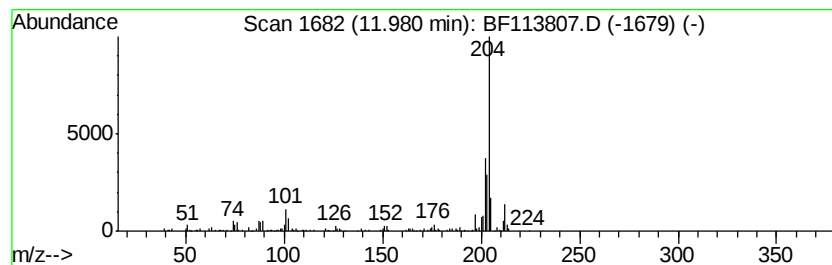
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 1,2,4,8-Tetramethylbicyclo[...] Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.98	8.00 ng	169031	Phenanthrene-d10	11.19

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	96
2		1,2,4,8-Tetramethylbicyclo[6.3.0...]	204	C15H24	137235-51-9	83
3		9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	83
4		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	76
5		5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	72



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113807.D
Acq On : 16 Apr 2019 21:47
Operator : JU/SJ
Sample : K2203-11 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

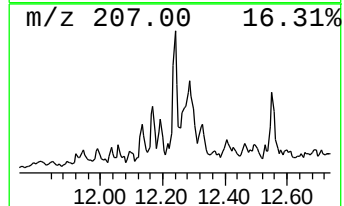
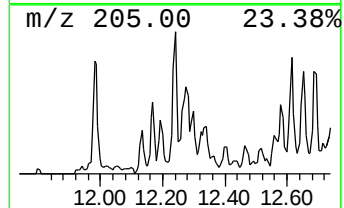
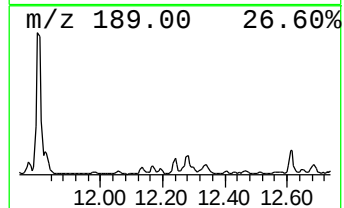
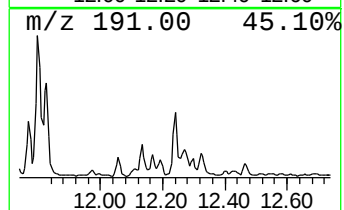
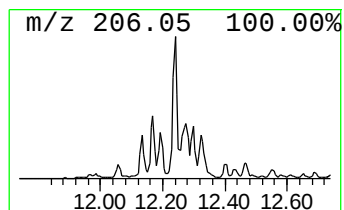
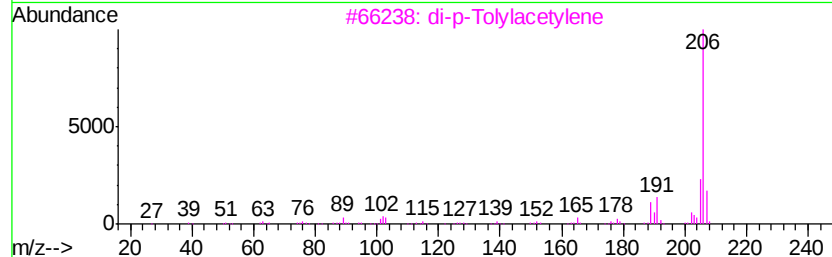
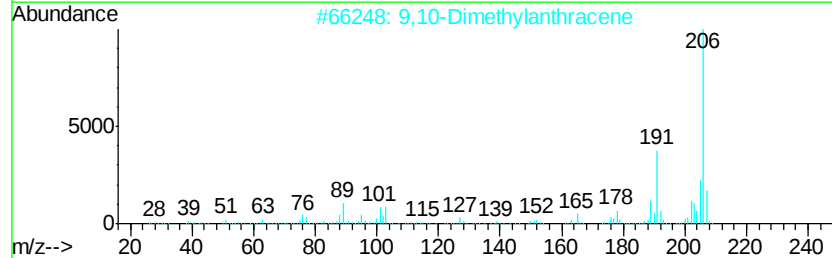
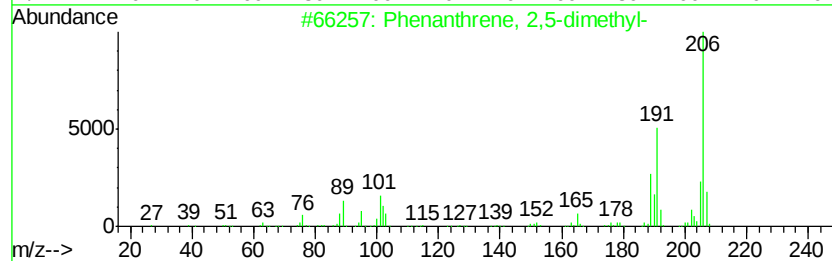
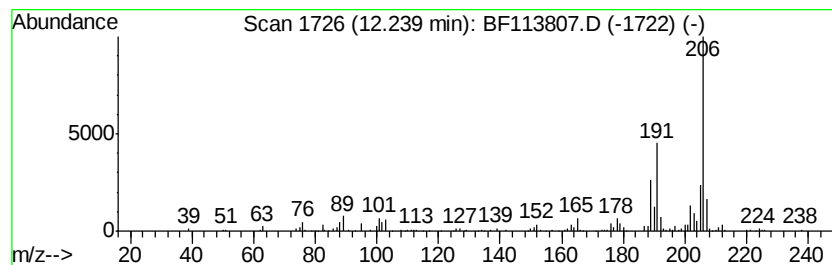
Instrument :
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ClientSampleId :
SU-01-041519-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD		R.T.
12.24	7.27 ng	153667	Phenanthrene-d10		11.19
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2	9,10-Dimethylantracene	206	C16H14	000781-43-1	94
3	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87
5	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	83



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113807.D
Acq On : 16 Apr 2019 21:47
Operator : JU/SJ
Sample : K2203-11 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-01-041519-B

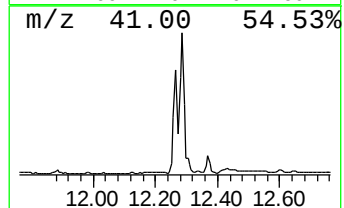
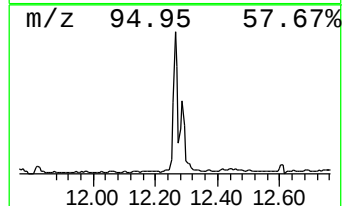
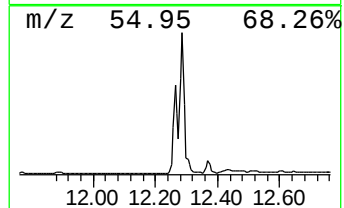
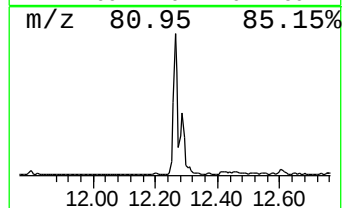
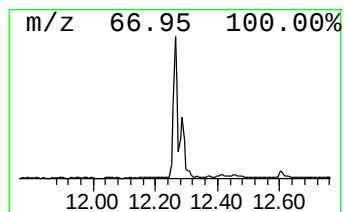
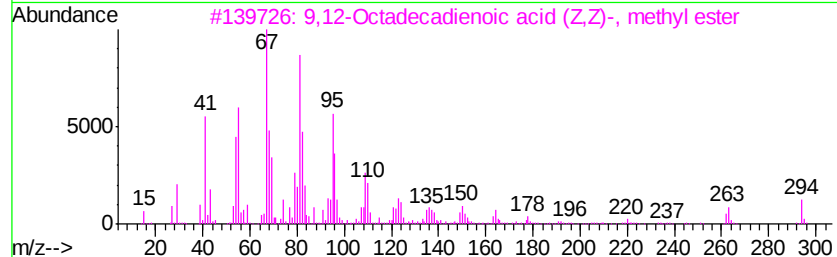
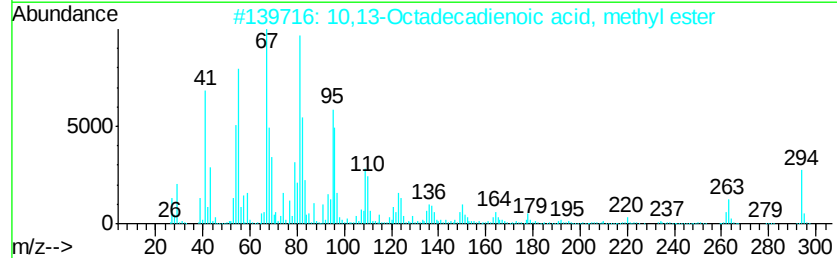
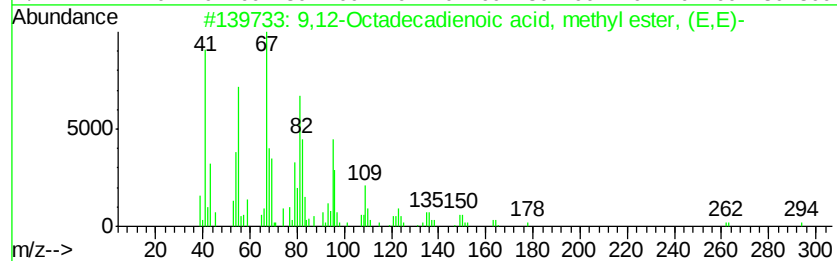
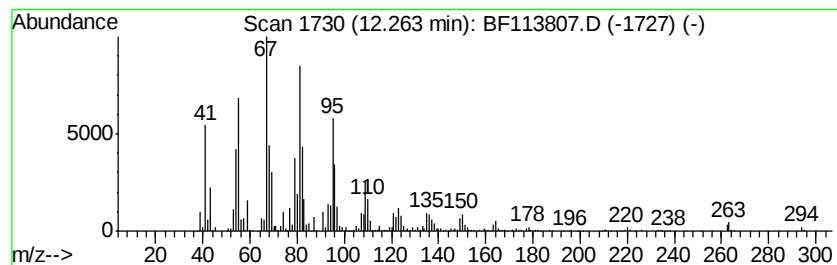
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 9,12-Octadecadienoic acid, ... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.26	92.62 ng	1958090	Phenanthrene-d10	11.19

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,12-Octadecadienoic acid, methy...	294	C19H34O2	002566-97-4	99
2		10,13-Octadecadienoic acid, meth...	294	C19H34O2	056554-62-2	99
3		9,12-Octadecadienoic acid (Z,Z)-...	294	C19H34O2	000112-63-0	99
4		9,15-Octadecadienoic acid, methy...	294	C19H34O2	017309-05-6	99
5		9,12-Octadecadienoic acid, methy...	294	C19H34O2	002462-85-3	99



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113807.D
Acq On : 16 Apr 2019 21:47
Operator : JU/SJ
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Misc :
ALS Vial : 24 Sample Multiplier: 1

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ClientSampleId :
SU-01-041519-B

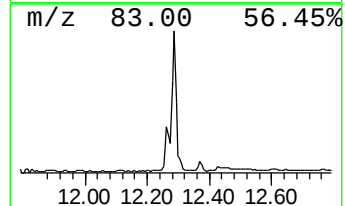
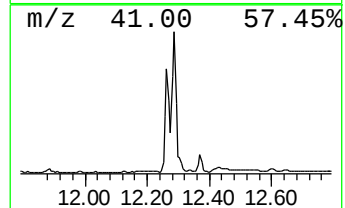
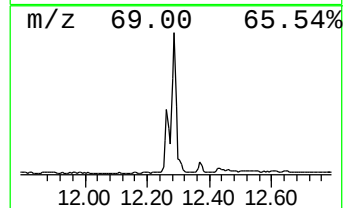
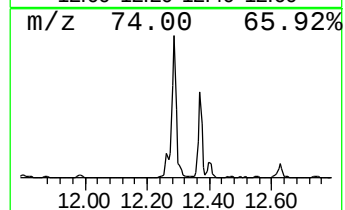
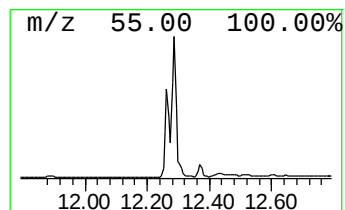
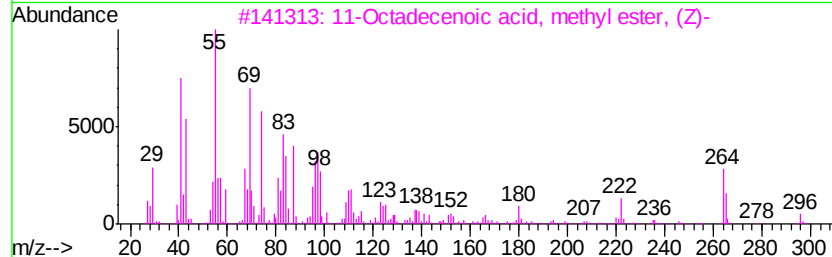
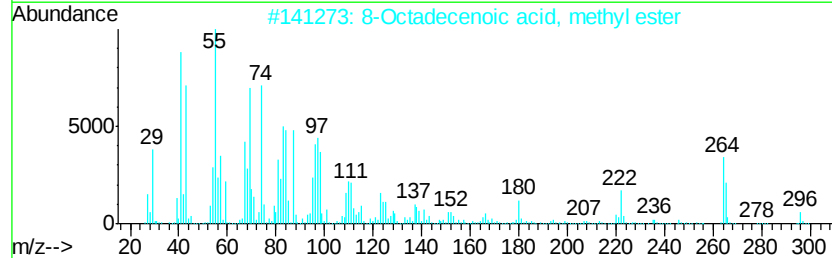
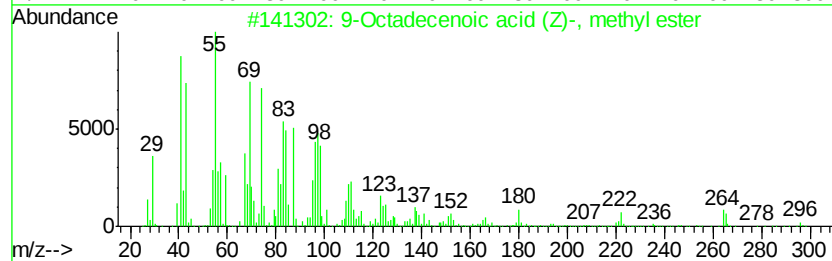
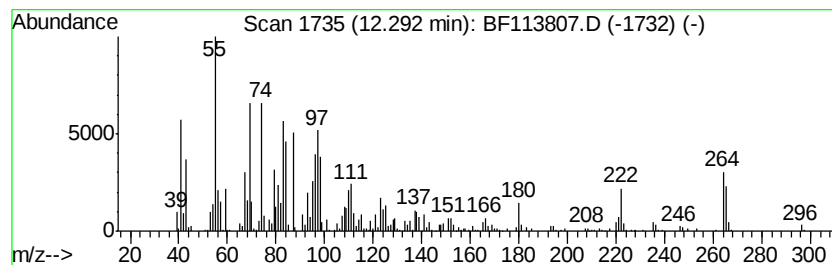
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 9-Octadecenoic acid (Z)-, m... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	106.13 ng	2243660	Phenanthrene-d10	11.19

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9-Octadecenoic acid (Z)-, methyl...	296	C19H36O2	000112-62-9	99
2		8-Octadecenoic acid, methyl ester	296	C19H36O2	002345-29-1	99
3		11-Octadecenoic acid, methyl est...	296	C19H36O2	001937-63-9	99
4		16-Octadecenoic acid, methyl ester	296	C19H36O2	056554-49-5	99
5		15-Octadecenoic acid, methyl ester	296	C19H36O2	004764-72-1	99



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113807.D
Acq On : 16 Apr 2019 21:47
Operator : JU/SJ
Sample : K2203-11 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-01-041519-B

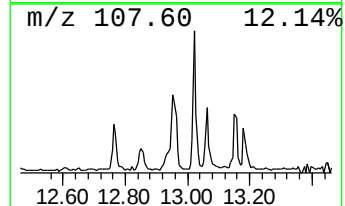
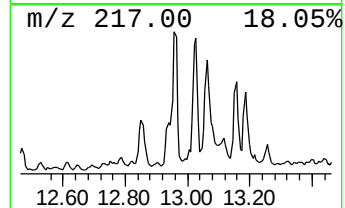
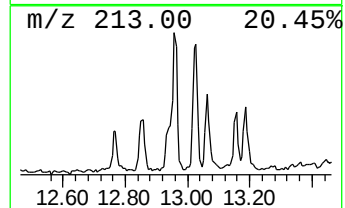
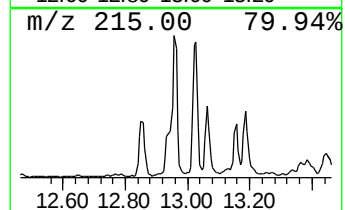
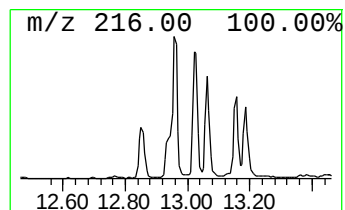
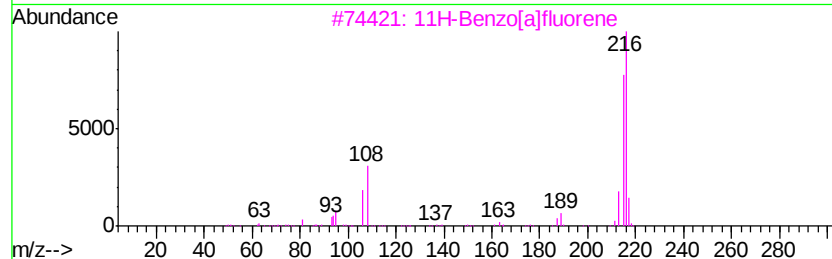
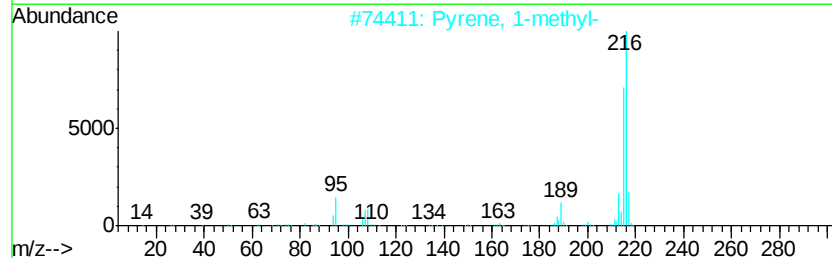
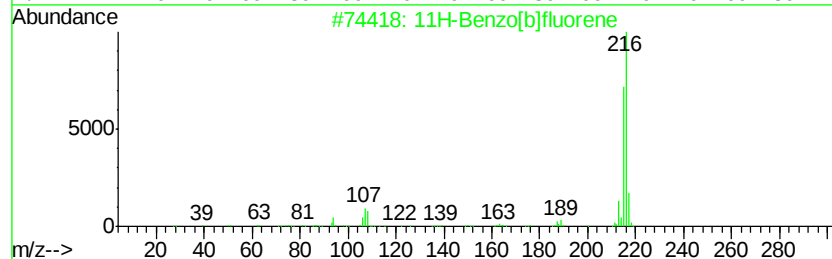
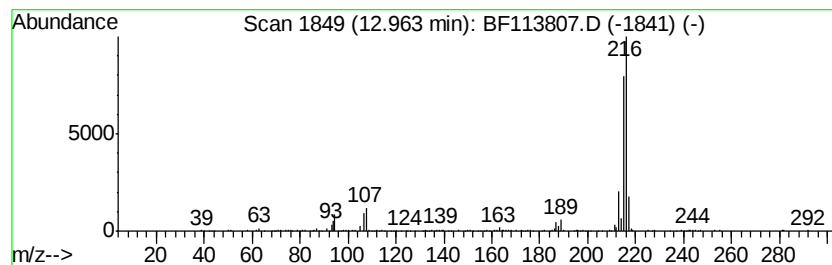
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 11H-Benzo[b]fluorene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.96	7.66 ng	467264	Chrysene-d12	13.83

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2			Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
3			11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4			Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
5			7H-Benzo[c]fluorene	216	C17H12	000205-12-9	68



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113807.D
Acq On : 16 Apr 2019 21:47
Operator : JU/SJ
Sample : K2203-11 2X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SU-01-041519-B

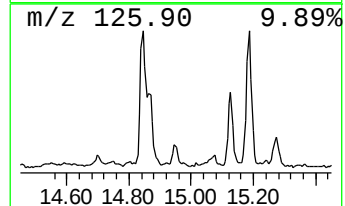
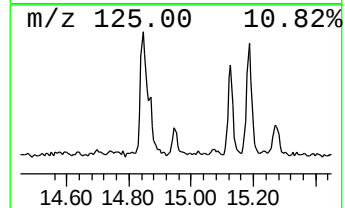
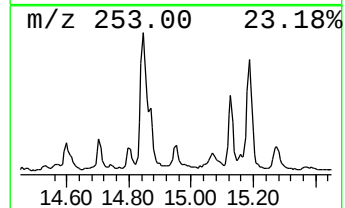
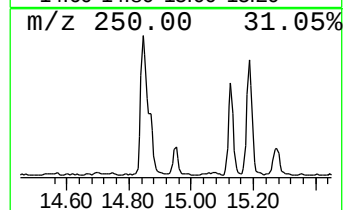
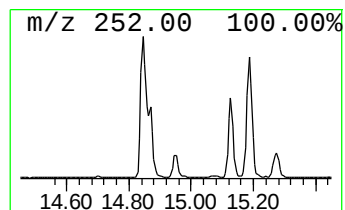
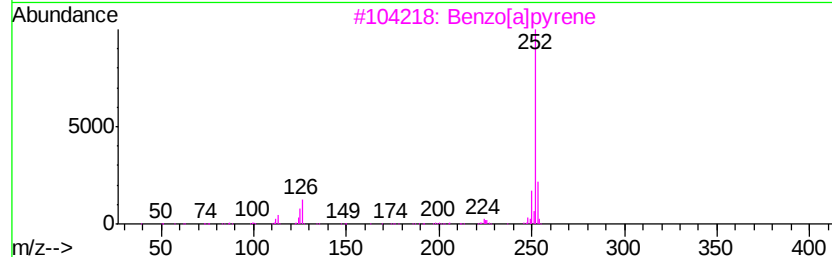
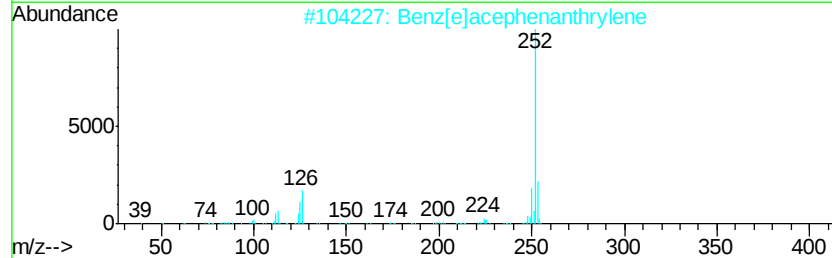
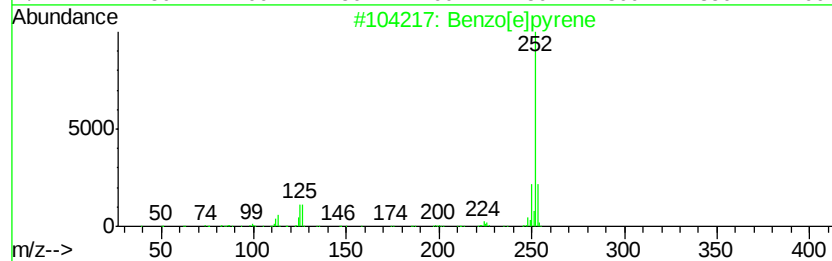
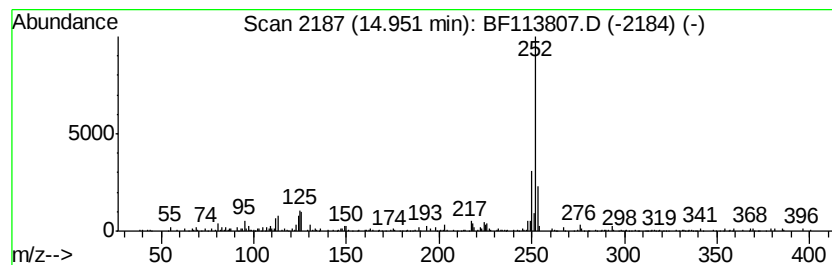
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Benzo[e]pyrene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.95	7.06 ng	105286	Perylene-d12	15.24

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2		Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
3		Benzo[a]pyrene	252	C20H12	000050-32-8	90
4		Benzo[k]fluoranthene	252	C20H12	000207-08-9	89
5		Perylene	252	C20H12	000198-55-0	81



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
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 Operator : JU/SJ
 Sample : K2203-11 2X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-01-041519-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.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
Naphthalene, 1,6-...	9.30	7.0 ng		134592	3	9.70	387552	20.0
Naphthalene, 2,3-...	9.37	8.5 ng		164015	3	9.70	387552	20.0
Naphthalene, 1,4-...	9.49	5.5 ng		106707	3	9.70	387552	20.0
Tetradecane	10.61	5.4 ng		114451	4	11.19	422817	20.0
Naphtho[2,3-b]thi...	11.09	10.1 ng		213395	4	11.19	422817	20.0
Dibenzothiophene,...	11.52	6.3 ng		133699	4	11.19	422817	20.0
Hexadecanoic acid...	11.58	31.3 ng		662044	4	11.19	422817	20.0
Phenanthrene, 2-m...	11.69	11.5 ng		242950	4	11.19	422817	20.0
Anthracene, 2-met...	11.72	16.9 ng		356256	4	11.19	422817	20.0
Phenanthrene, 3-m...	11.77	4.9 ng		104091	4	11.19	422817	20.0
4H-Cyclopenta[def...	11.80	23.3 ng		491901	4	11.19	422817	20.0
Anthracene, 9-met...	11.83	6.7 ng		141216	4	11.19	422817	20.0
1,2,4,8-Tetrameth...	11.98	8.0 ng		169031	4	11.19	422817	20.0
Phenanthrene, 2,5...	12.24	7.3 ng		153667	4	11.19	422817	20.0
9,12-Octadecadien...	12.26	92.6 ng		1958090	4	11.19	422817	20.0
9-Octadecenoic ac...	12.29	106.1 ng		2243660	4	11.19	422817	20.0
11H-Benzo[b]fluorene	12.96	7.7 ng		467264	5	13.83	1220340	20.0
Benzo[e]pyrene	14.95	7.1 ng		105286	6	15.24	298223	20.0