

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
 Data File : BF113806.D
 Acq On : 16 Apr 2019 21:18
 Operator : JU/SJ
 Sample : K2203-09 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

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

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	589	rBV	539119	1105801	87.52%	5.451%
2	6.334	719	722	739	rBV	542213	1110182	87.87%	5.473%
3	6.451	739	742	766	rVB	1030795	1263495	100.00%	6.229%
4	6.675	776	780	790	rVB	318320	331005	26.20%	1.632%
5	6.828	802	806	823	rBV	935465	933607	73.89%	4.602%
6	7.239	873	876	908	rBV	409593	705959	55.87%	3.480%
7	7.957	994	998	1021	rVB	291454	409749	32.43%	2.020%
8	8.775	1135	1137	1144	rVB2	15205	19978	1.58%	0.098%
9	9.028	1176	1180	1190	rBV	1314074	1227874	97.18%	6.053%
10	9.375	1235	1239	1242	rBV2	15750	20790	1.65%	0.102%
11	9.433	1246	1249	1256	rVV	94801	114076	9.03%	0.562%
12	9.486	1256	1258	1267	rVB2	12406	20167	1.60%	0.099%
13	9.575	1269	1273	1276	rBV	22356	23019	1.82%	0.113%
14	9.639	1282	1284	1288	rVB	20524	18012	1.43%	0.089%
15	9.704	1292	1295	1299	rVV	406295	389693	30.84%	1.921%
16	9.739	1299	1301	1311	rVB2	52095	64802	5.13%	0.319%
17	9.922	1326	1332	1335	rBV2	20202	29908	2.37%	0.147%
18	9.957	1335	1338	1342	rVB3	15356	17415	1.38%	0.086%
19	10.028	1347	1350	1352	rBV3	13564	13991	1.11%	0.069%
20	10.139	1366	1369	1372	rVB	30012	24516	1.94%	0.121%
21	10.257	1383	1389	1394	rBV2	55656	67814	5.37%	0.334%
22	10.498	1427	1430	1443	rBV	457300	619882	49.06%	3.056%
23	10.610	1446	1449	1454	rVB2	29158	41491	3.28%	0.205%
24	10.804	1477	1482	1485	rBV3	21262	29885	2.37%	0.147%
25	10.833	1485	1487	1490	rVB	16329	14893	1.18%	0.073%
26	11.057	1519	1525	1527	rBV3	24003	27122	2.15%	0.134%
27	11.086	1527	1530	1535	rVB2	37608	41901	3.32%	0.207%
28	11.133	1535	1538	1544	rVB4	7740	12836	1.02%	0.063%
29	11.186	1544	1547	1549	rBV	402180	360514	28.53%	1.777%
30	11.210	1549	1551	1558	rVV	388797	432699	34.25%	2.133%
31	11.269	1558	1561	1569	rVV	125390	155611	12.32%	0.767%
32	11.363	1573	1577	1580	rVB5	10687	12836	1.02%	0.063%
33	11.445	1586	1591	1594	rBV3	20487	32969	2.61%	0.163%
34	11.480	1594	1597	1599	rVV	34554	26086	2.06%	0.129%

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
 Data File : BF113806.D
 Acq On : 16 Apr 2019 21:18
 Operator : JU/SJ
 Sample : K2203-09 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

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

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

35	11.527	1603	1605	1610	rVB2	17101	18519	1.47%	0.091%
36	11.580	1610	1614	1617	rBV	322096	254383	20.13%	1.254%
37	11.692	1629	1633	1636	rBV	86662	83425	6.60%	0.411%
38	11.722	1636	1638	1644	rVV2	135267	162144	12.83%	0.799%
39	11.769	1644	1646	1649	rVV	45916	53353	4.22%	0.263%
40	11.804	1649	1652	1654	rVV	169086	178923	14.16%	0.882%
41	11.827	1654	1656	1662	rVV	63864	64814	5.13%	0.320%
42	11.886	1663	1666	1669	rVB2	19740	17184	1.36%	0.085%
43	11.986	1679	1683	1688	rBV	61610	61966	4.90%	0.305%
44	12.133	1705	1708	1711	rVB	21398	18625	1.47%	0.092%
45	12.169	1711	1714	1716	rBV	34547	30569	2.42%	0.151%
46	12.192	1716	1718	1721	rVB2	25103	22273	1.76%	0.110%
47	12.239	1723	1726	1727	rBV	81625	70625	5.59%	0.348%
48	12.263	1727	1730	1732	rVV	932720	921202	72.91%	4.541%
49	12.280	1732	1733	1740	rVV	1000687	888412	70.31%	4.380%
50	12.333	1740	1742	1745	rVB2	28392	30568	2.42%	0.151%
51	12.369	1745	1748	1750	rVB	121755	86287	6.83%	0.425%
52	12.398	1750	1753	1758	rBV	853289	835180	66.10%	4.117%
53	12.516	1768	1773	1777	rVB5	11811	22741	1.80%	0.112%
54	12.557	1777	1780	1782	rVV	48875	50674	4.01%	0.250%
55	12.627	1786	1792	1799	rVV	833511	966193	76.47%	4.763%
56	12.686	1799	1802	1806	rVB2	45376	52237	4.13%	0.258%
57	12.763	1811	1815	1822	rVV	1225580	1197966	94.81%	5.906%
58	12.845	1826	1829	1834	rBV2	60353	101779	8.06%	0.502%
59	12.939	1841	1845	1846	rBV4	58971	84902	6.72%	0.419%
60	12.957	1846	1848	1853	rVB	143331	143001	11.32%	0.705%
61	13.027	1853	1860	1863	rBV	127148	167776	13.28%	0.827%
62	13.063	1863	1866	1870	rBV2	96945	109675	8.68%	0.541%
63	13.157	1879	1882	1885	rBV2	53417	52266	4.14%	0.258%
64	13.186	1885	1887	1896	rVB2	65091	89865	7.11%	0.443%
65	13.339	1910	1913	1915	rBV	27528	27282	2.16%	0.134%
66	13.363	1915	1917	1919	rBV3	15308	15189	1.20%	0.075%
67	13.445	1928	1931	1934	rBV3	25537	39727	3.14%	0.196%
68	13.580	1949	1954	1955	rBV	81519	93912	7.43%	0.463%
69	13.598	1955	1957	1960	rVB	72674	65212	5.16%	0.321%
70	13.633	1960	1963	1964	rBV	52194	49280	3.90%	0.243%
71	13.751	1980	1983	1987	rBV2	29519	40513	3.21%	0.200%

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113806.D
Acq On : 16 Apr 2019 21:18
Operator : JU/SJ
Sample : K2203-09 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

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

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

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

72	13.821	1989	1995	1998	rBV2	686175	1031533	81.64%	5.085%
73	13.851	1998	2000	2008	rVV	428816	460227	36.42%	2.269%
74	13.933	2012	2014	2019	rVB	79527	82770	6.55%	0.408%
75	14.216	2057	2062	2066	rBV	101671	134698	10.66%	0.664%
76	14.251	2066	2068	2071	rVB	42578	30024	2.38%	0.148%
77	14.286	2071	2074	2077	rBV2	67645	79295	6.28%	0.391%
78	14.316	2077	2079	2081	rBV2	37009	29138	2.31%	0.144%
79	14.339	2081	2083	2085	rBV	39640	34039	2.69%	0.168%
80	14.845	2165	2169	2172	rBV	321341	460635	36.46%	2.271%
81	14.945	2184	2186	2191	rBV	64312	69818	5.53%	0.344%
82	15.121	2213	2216	2221	rBV	155383	181864	14.39%	0.897%
83	15.186	2223	2227	2231	rBV	238931	278585	22.05%	1.373%
84	15.239	2232	2236	2240	rBV	303256	403384	31.93%	1.989%
85	17.027	2537	2540	2549	rVB	60585	120332	9.52%	0.593%

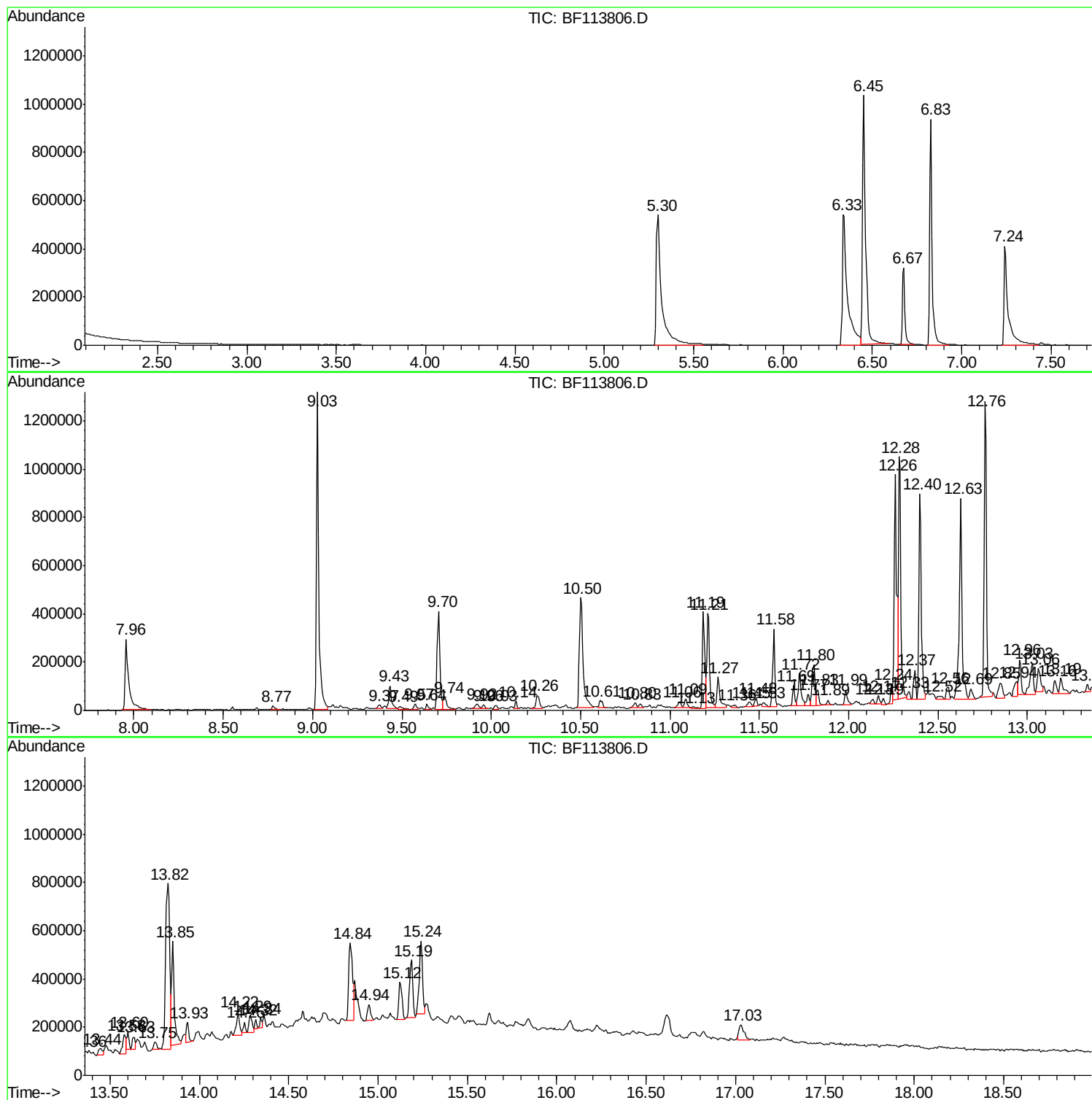
Sum of corrected areas: 20285562

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113806.D
Acq On : 16 Apr 2019 21:18
Operator : JU/SJ
Sample : K2203-09 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

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

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113806.D
Acq On : 16 Apr 2019 21:18
Operator : JU/SJ
Sample : K2203-09 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

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

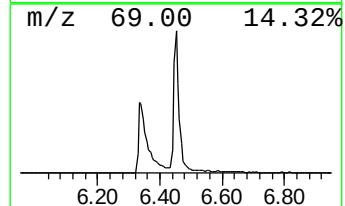
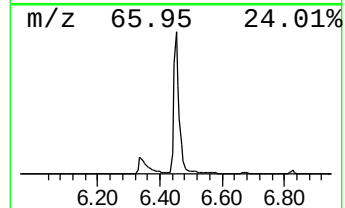
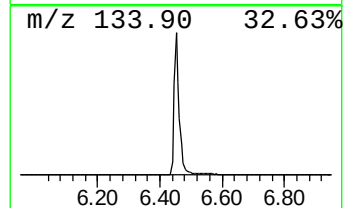
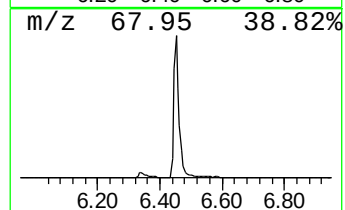
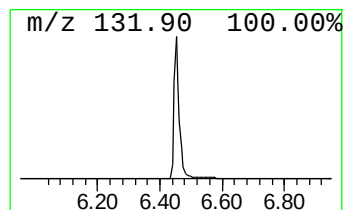
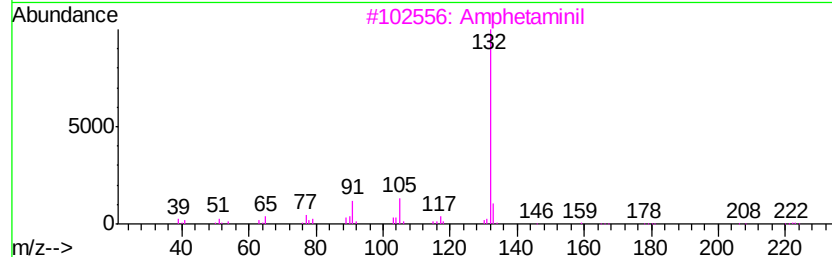
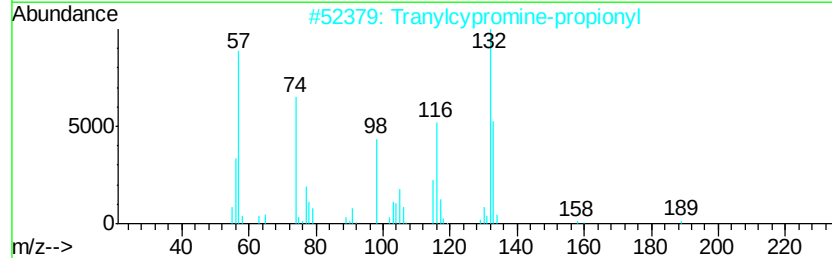
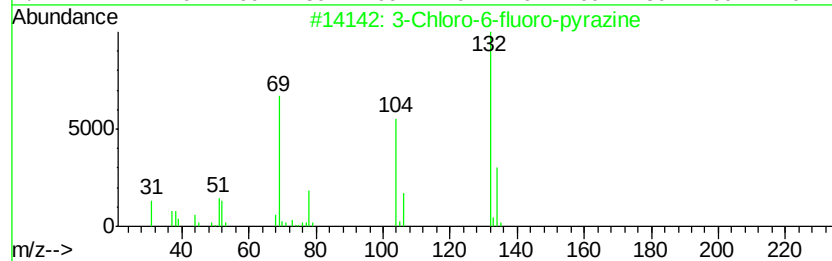
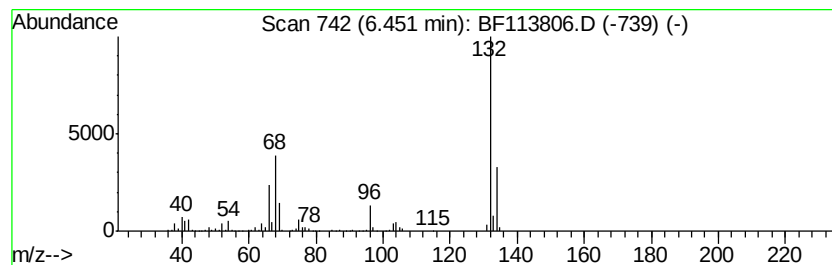
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 unknown6.45 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.45	76.34 ng	1263500	1,4-Dichlorobenzene-d4	6.67

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
2		Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
3		Amphetaminil	250	C17H18N2	017590-01-1	12
4		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	12
5		5-Aminoindole	132	C8H8N2	005192-03-0	12



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113806.D
Acq On : 16 Apr 2019 21:18
Operator : JU/SJ
Sample : K2203-09 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

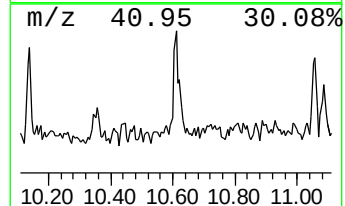
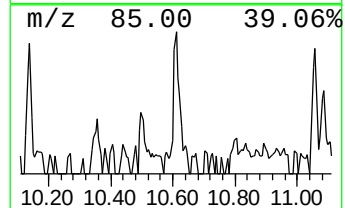
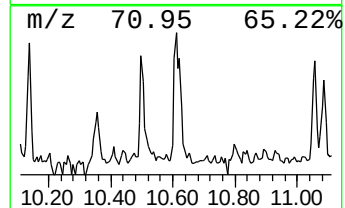
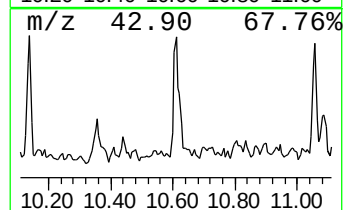
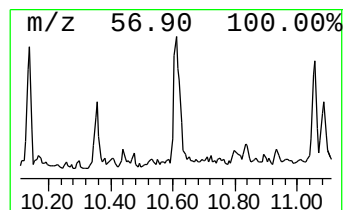
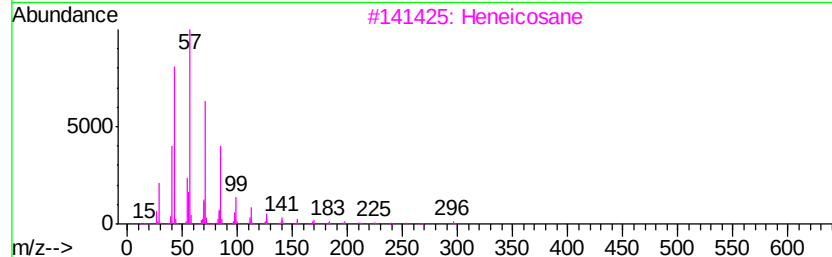
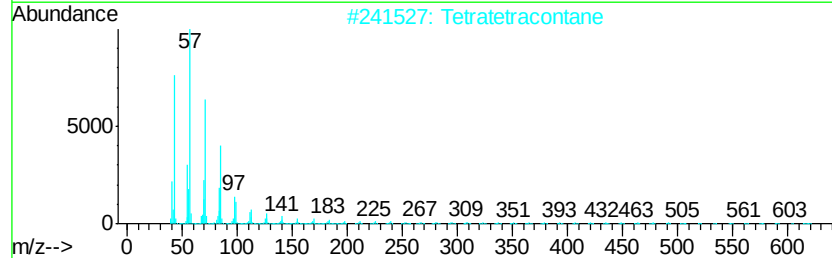
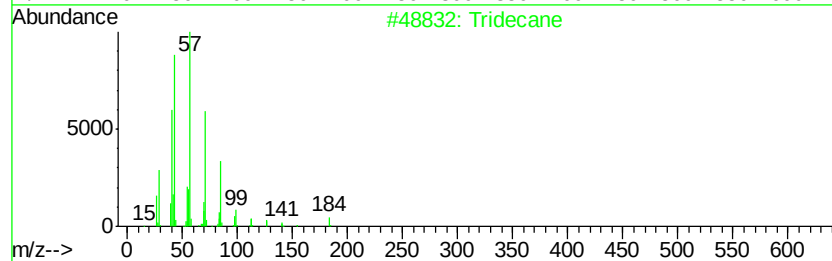
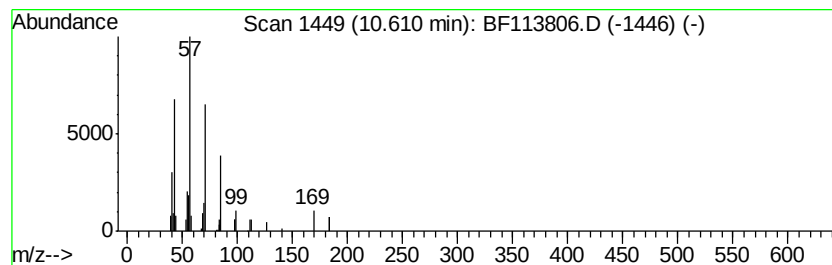
Instrument :
BNA_F
ClientSampleId :
SU-01-041519-A

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 3 Tridecane Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD		R.T.
10.61	2.30 ng	41491	Phenanthrene-d10		11.19
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	87
2	Tetratetracontane	619	C44H90	007098-22-8	72
3	Heneicosane	296	C21H44	000629-94-7	72
4	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	72
5	Tridecane, 2-methyl-	198	C14H30	001560-96-9	64



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113806.D
Acq On : 16 Apr 2019 21:18
Operator : JU/SJ
Sample : K2203-09 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

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

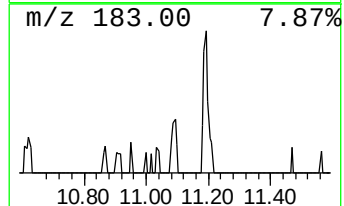
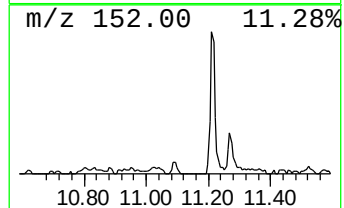
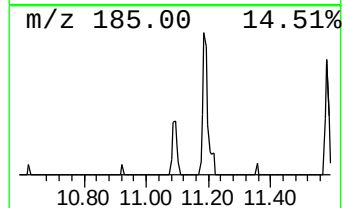
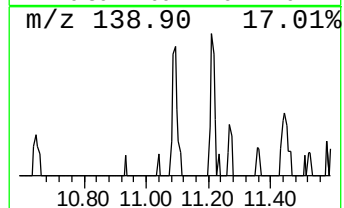
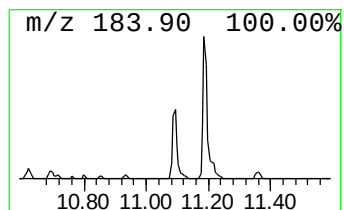
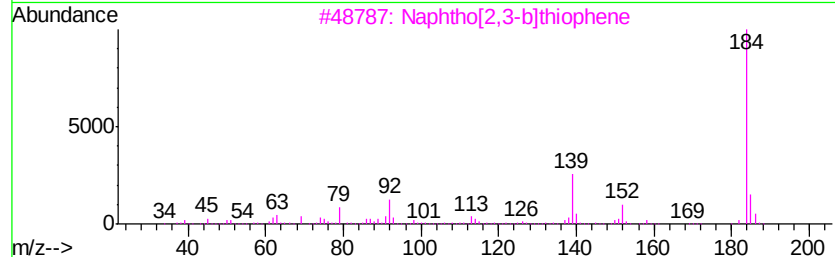
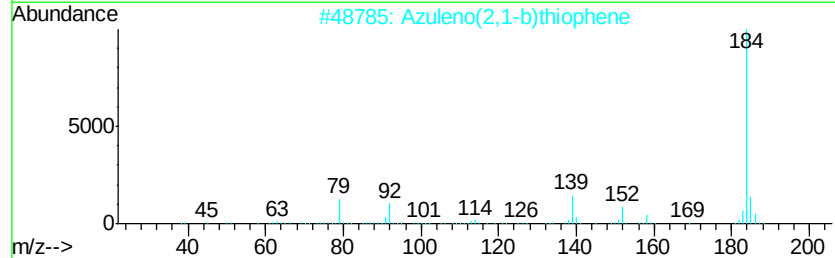
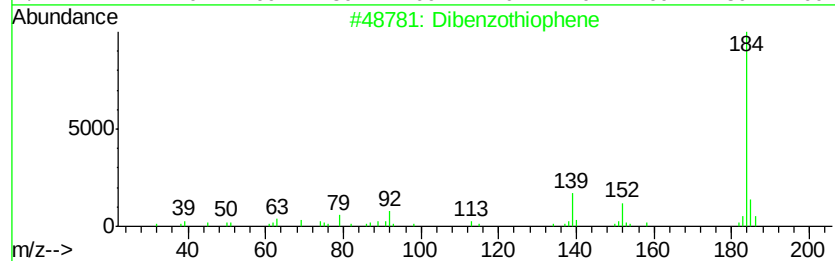
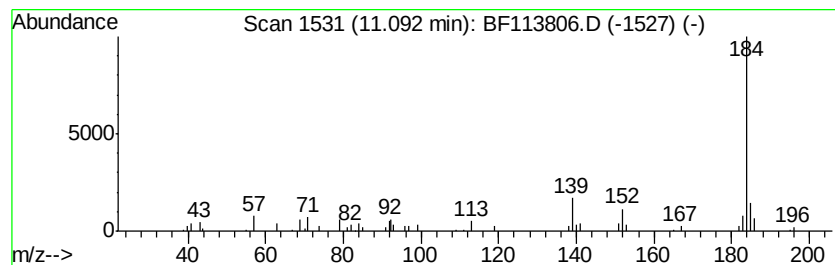
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Dibenzothiophene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.09	2.32 ng	41901	Phenanthrene-d10	11.19

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzothiophene	184	C12H8S	000132-65-0	76
2		Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	76
3		Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	76
4		Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	76
5		Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	76



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113806.D
Acq On : 16 Apr 2019 21:18
Operator : JU/SJ
Sample : K2203-09 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

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

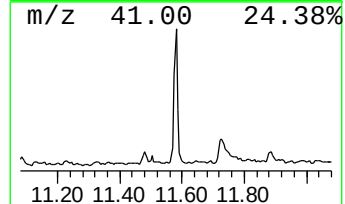
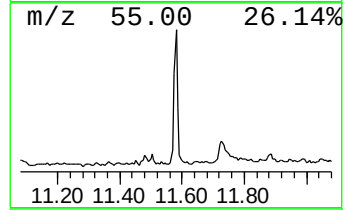
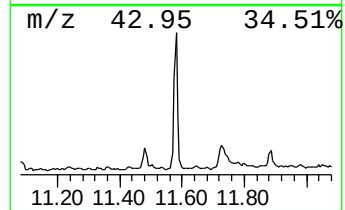
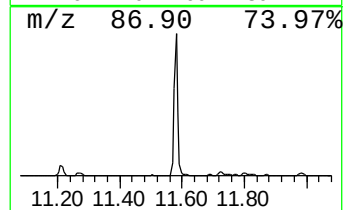
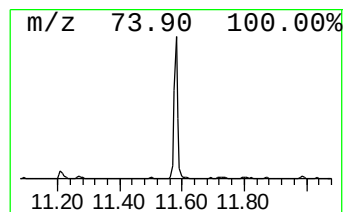
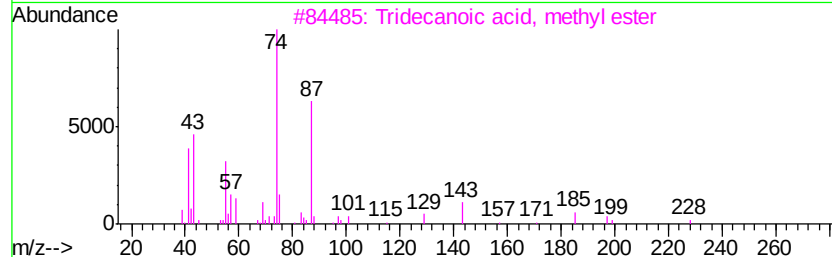
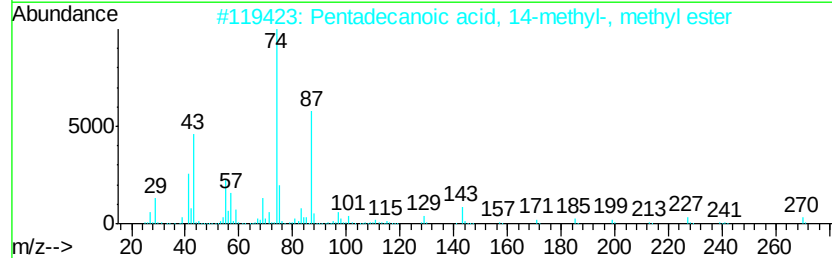
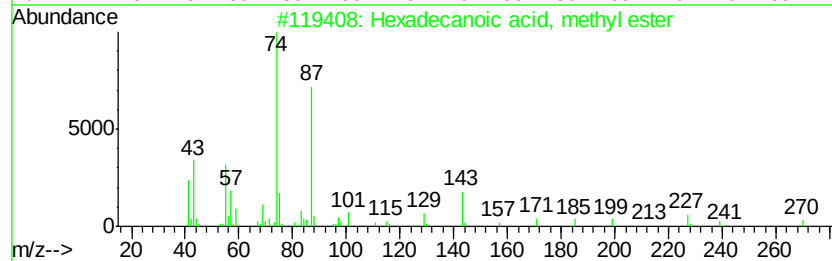
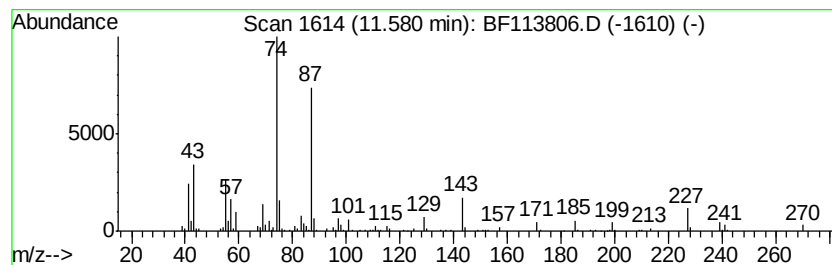
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Hexadecanoic acid, methyl e... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.58	14.11 ng	254383	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	93
3		Tridecanoic acid, methyl ester	228	C14H28O2	001731-88-0	91
4		Methyl tetradecanoate	242	C15H30O2	000124-10-7	91
5		Decanoic acid, methyl ester	186	C11H22O2	000110-42-9	87



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113806.D
Acq On : 16 Apr 2019 21:18
Operator : JU/SJ
Sample : K2203-09 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

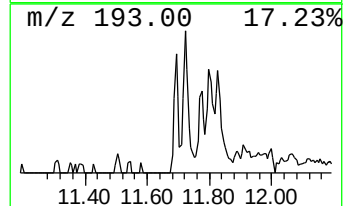
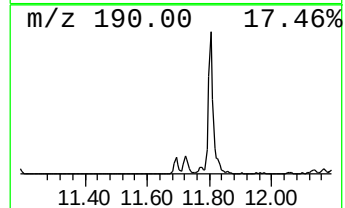
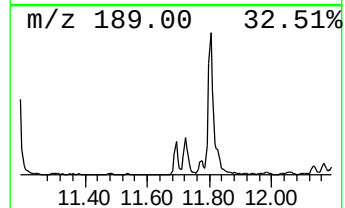
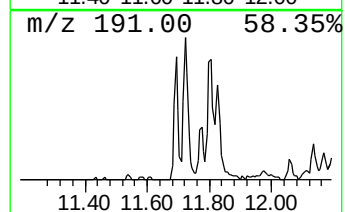
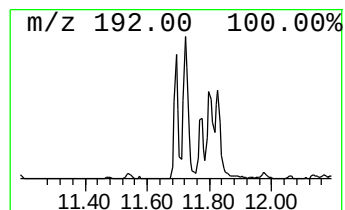
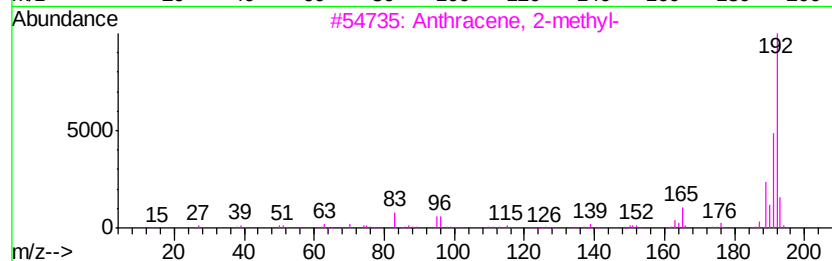
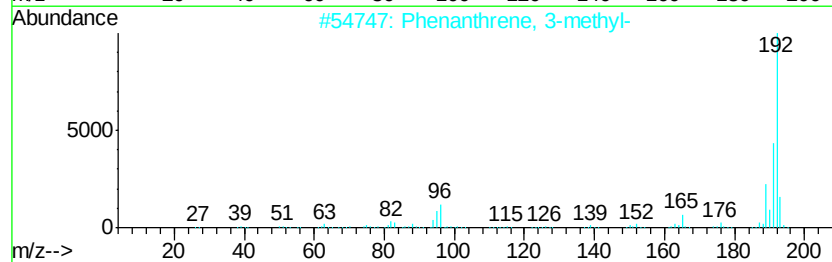
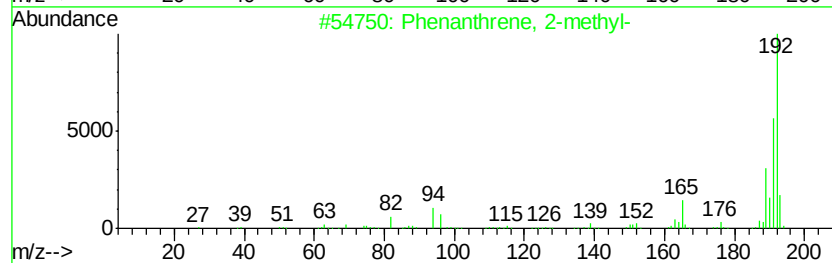
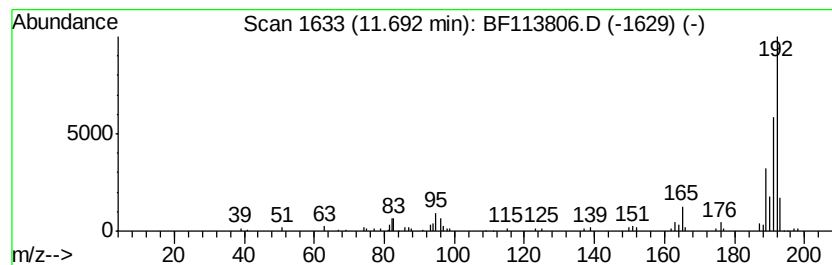
Instrument :
BNA_F
ClientSampleId :
SU-01-041519-A

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 Phenanthrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD		R.T.
11.69	4.63 ng	83425	Phenanthrene-d10		11.19
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	91
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113806.D
Acq On : 16 Apr 2019 21:18
Operator : JU/SJ
Sample : K2203-09 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

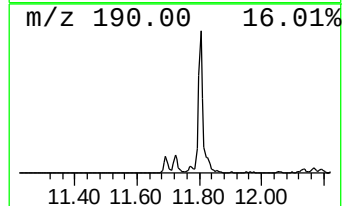
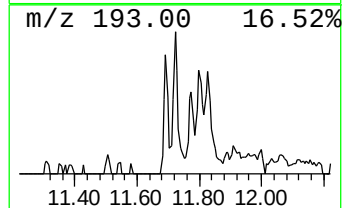
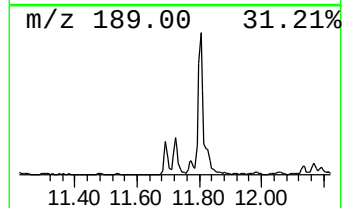
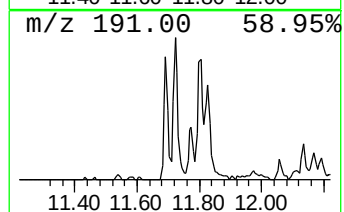
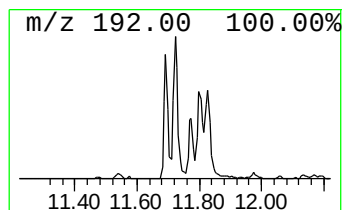
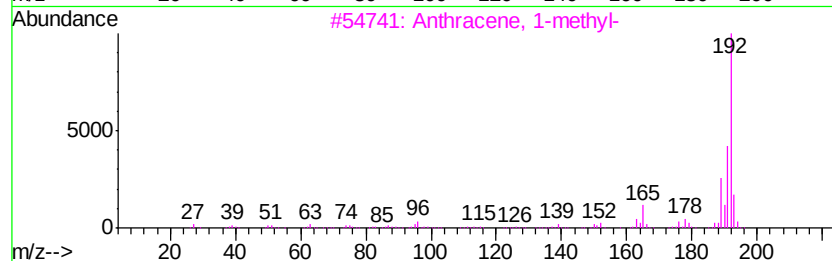
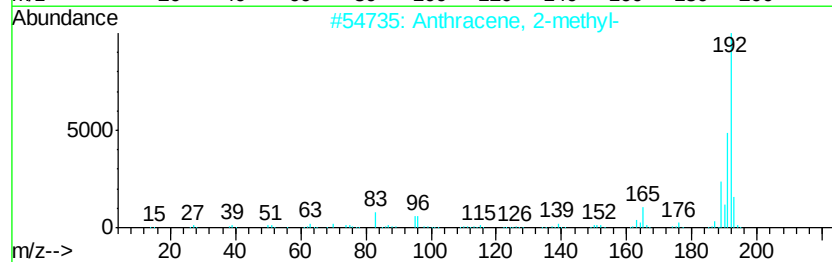
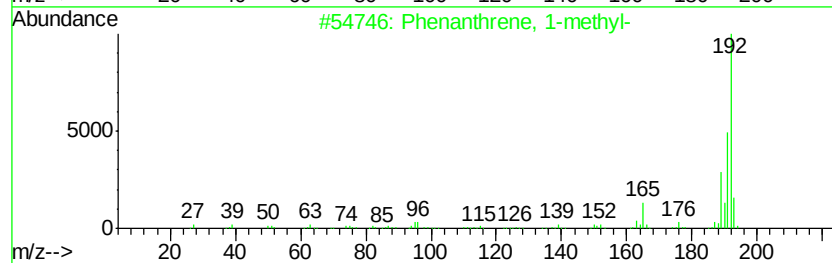
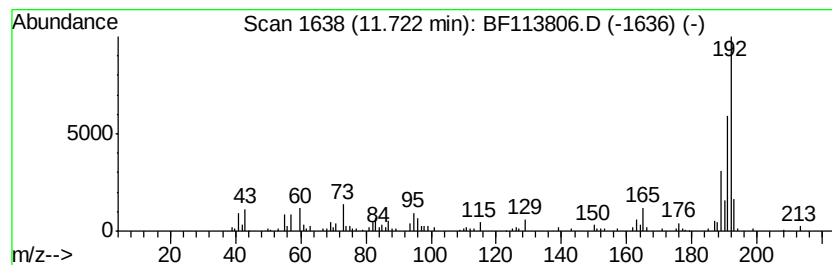
Instrument :
BNA_F
ClientSampleId :
SU-01-041519-A

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 Phenanthrene, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.72	9.00 ng	162144	Phenanthrene-d10	11.19	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	90



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113806.D
Acq On : 16 Apr 2019 21:18
Operator : JU/SJ
Sample : K2203-09 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

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

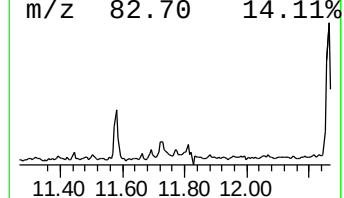
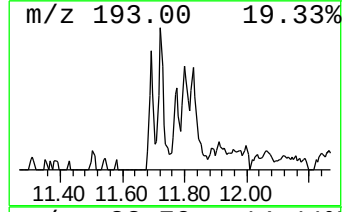
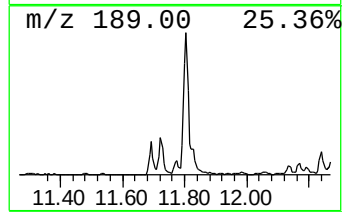
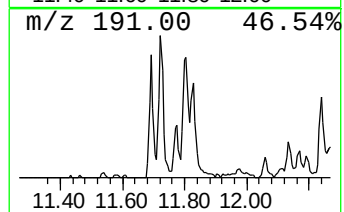
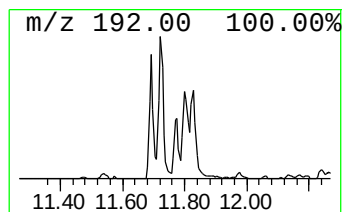
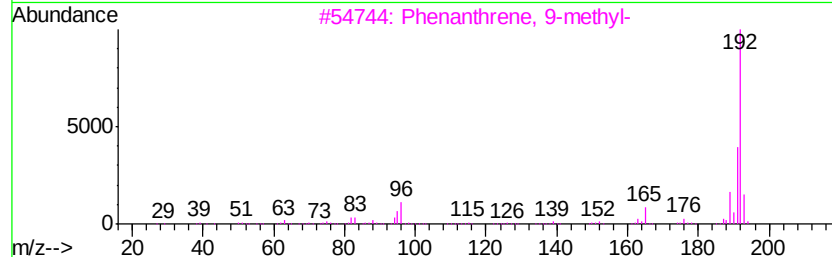
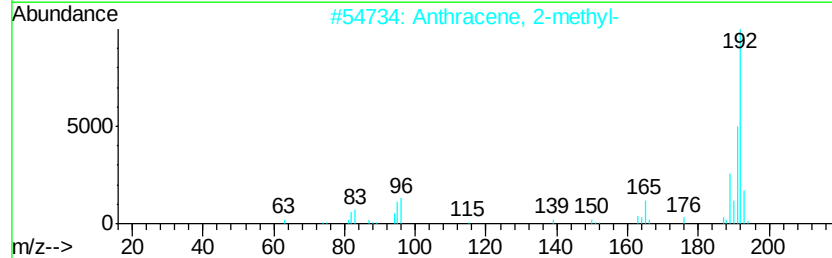
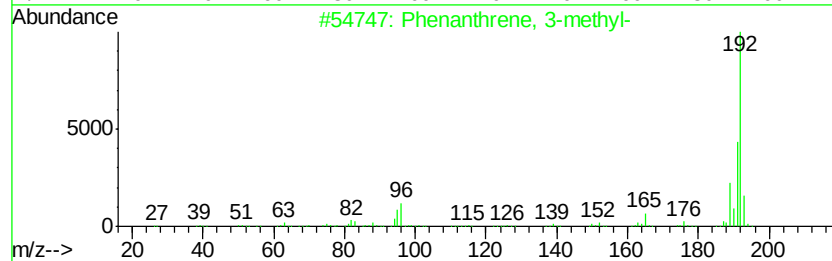
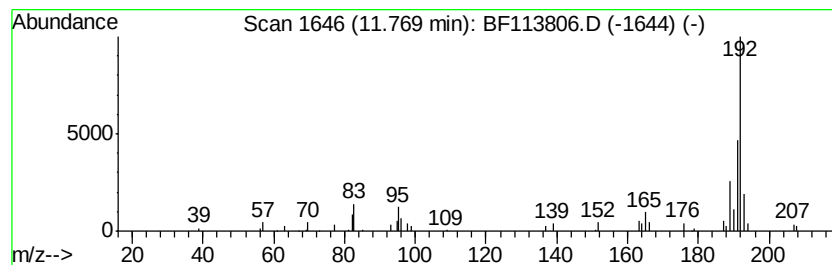
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Phenanthrene, 3-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.77	2.96 ng	53353	Phenanthrene-d10	11.19

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	87
2		Anthracene, 2-methyl-	192	C15H12	000613-12-7	87
3		Phenanthrene, 9-methyl-	192	C15H12	000883-20-5	83
4		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	81
5		1H-Cyclopropa[l]phenanthrene, 1a, ...	192	C15H12	000949-41-7	81



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113806.D
Acq On : 16 Apr 2019 21:18
Operator : JU/SJ
Sample : K2203-09 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

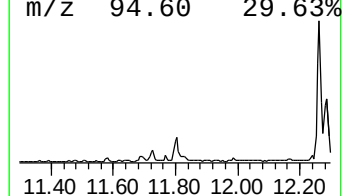
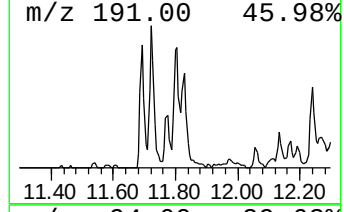
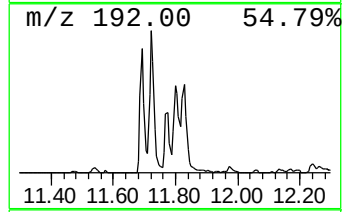
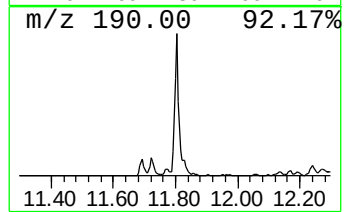
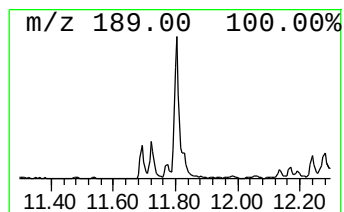
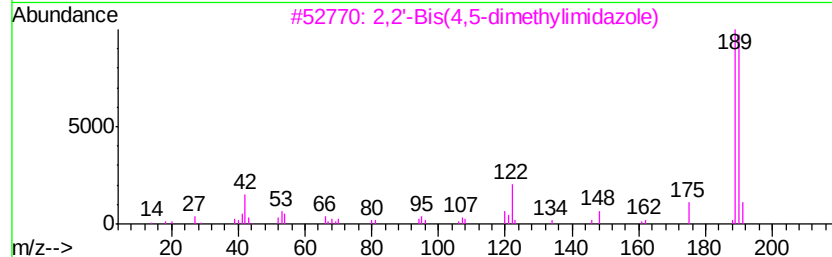
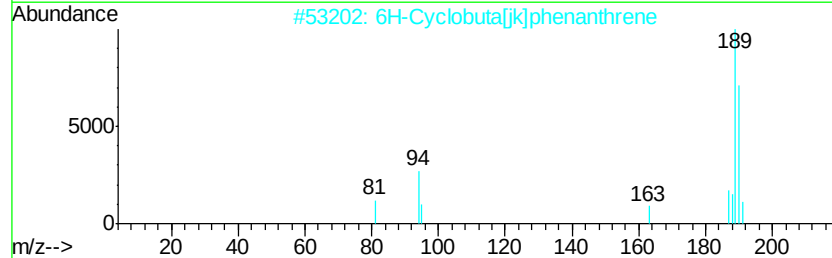
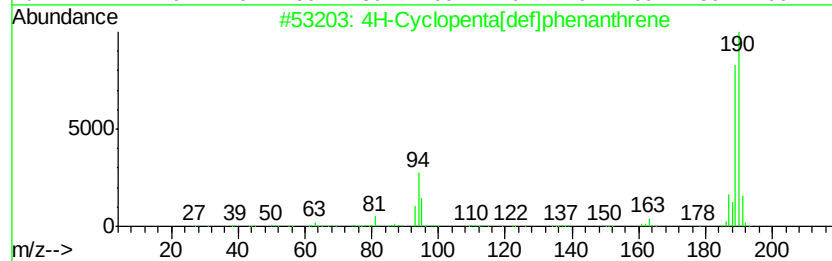
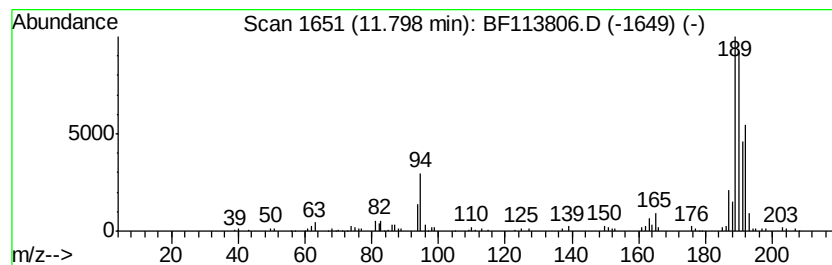
Instrument :
BNA_F
ClientSampleId :
SU-01-041519-A

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 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD		R.T.
11.80	9.93 ng	178923	Phenanthrene-d10		11.19
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	64
3	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	40
4	2,6-Dichlorobenzaloxime	189	C7H5Cl2NO	025185-95-9	30
5	Methyl diselenide	190	C2H6Se2	007101-31-7	16



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113806.D
Acq On : 16 Apr 2019 21:18
Operator : JU/SJ
Sample : K2203-09 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

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

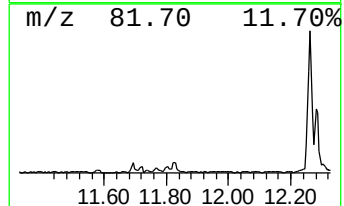
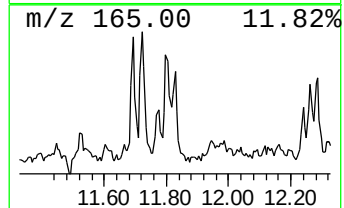
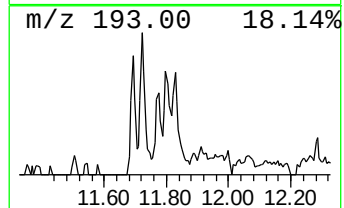
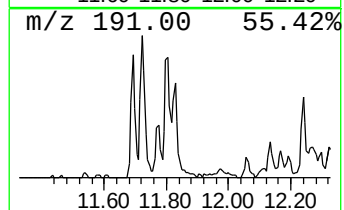
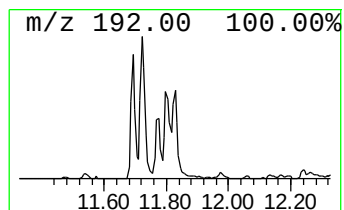
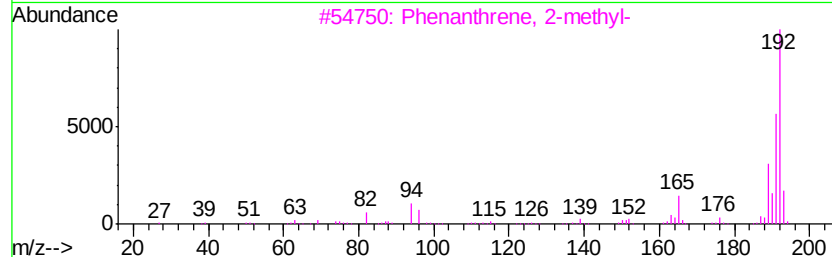
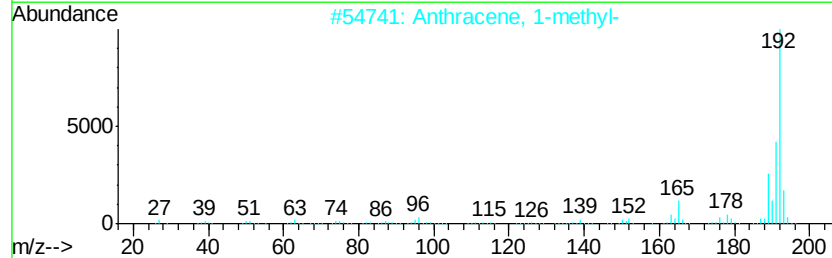
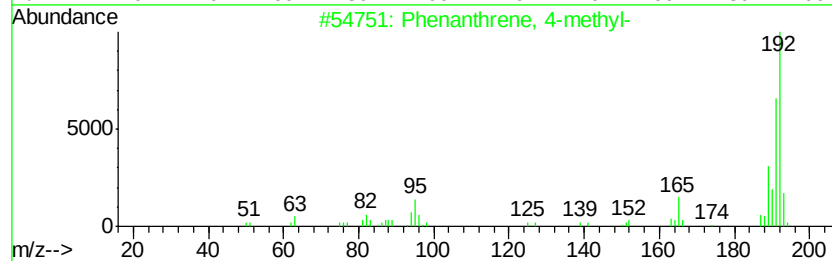
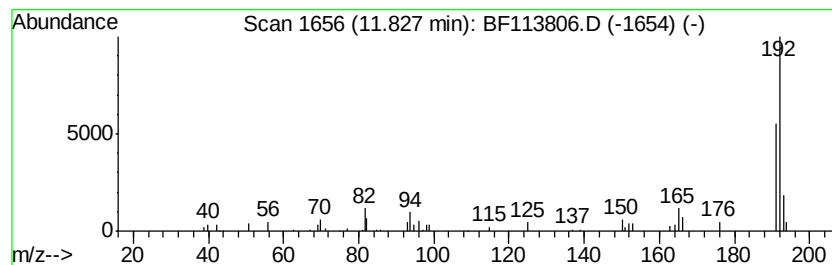
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Phenanthrene, 4-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.83	3.60 ng	64814	Phenanthrene-d10	11.19

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	90
2			Anthracene, 1-methyl-	192	C15H12	000610-48-0	87
3			Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	87
4			Anthracene, 9-methyl-	192	C15H12	000779-02-2	86
5			Anthracene, 2-methyl-	192	C15H12	000613-12-7	86



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113806.D
Acq On : 16 Apr 2019 21:18
Operator : JU/SJ
Sample : K2203-09 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

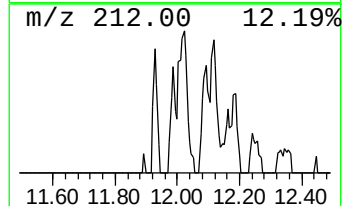
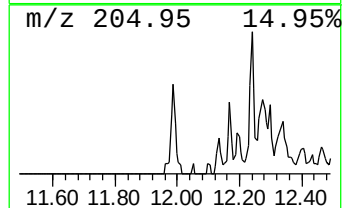
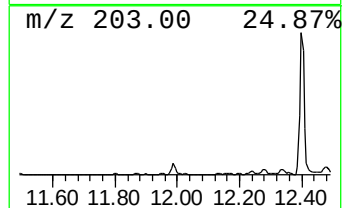
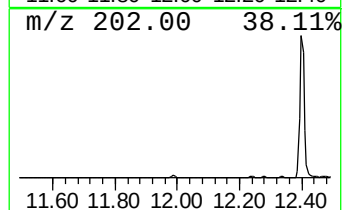
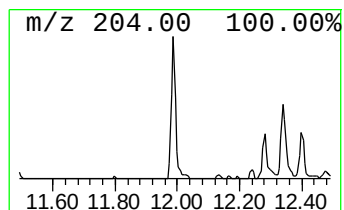
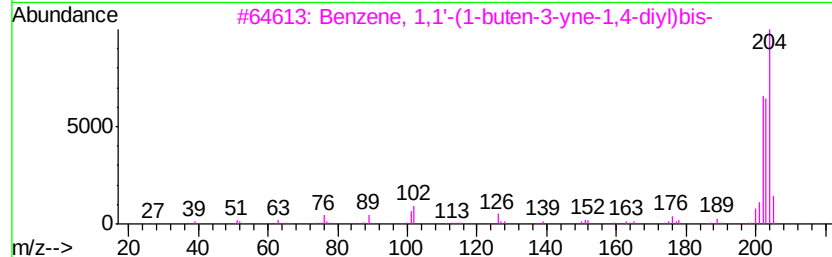
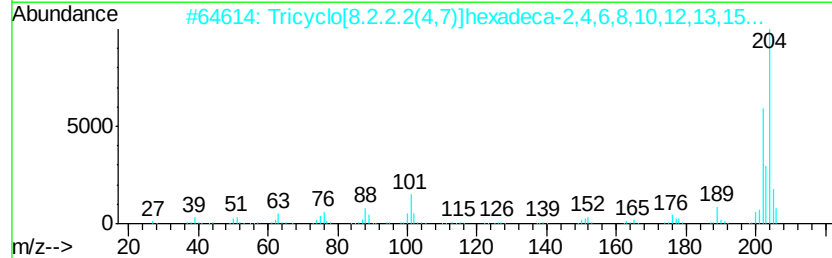
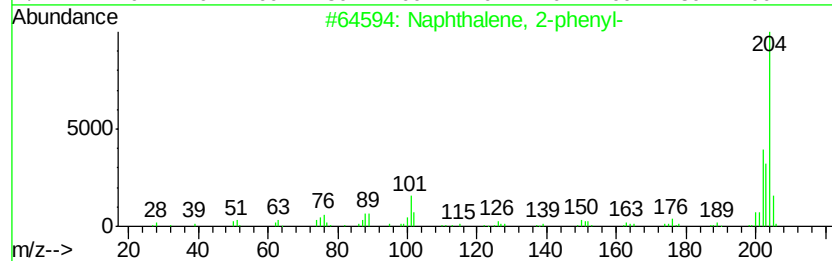
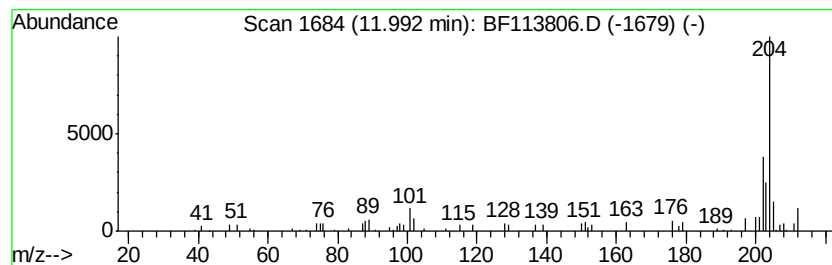
Instrument :
BNA_F
ClientSampleId :
SU-01-041519-A

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 11 Naphthalene, 2-phenyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.99	3.44 ng	61966	Phenanthrene-d10	11.19	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	68
3	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	53
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	52
5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	52



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113806.D
Acq On : 16 Apr 2019 21:18
Operator : JU/SJ
Sample : K2203-09 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

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

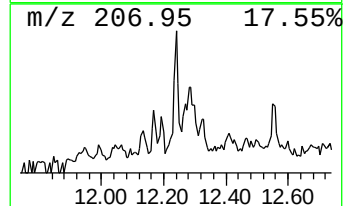
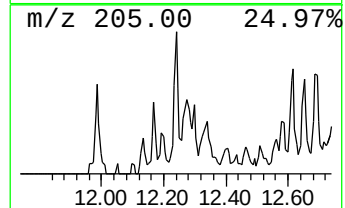
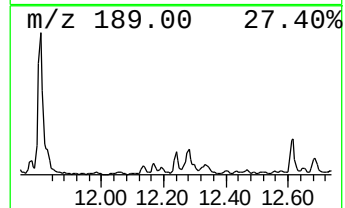
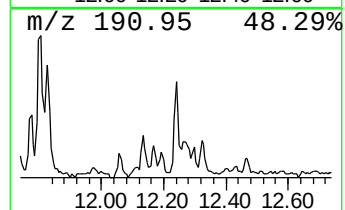
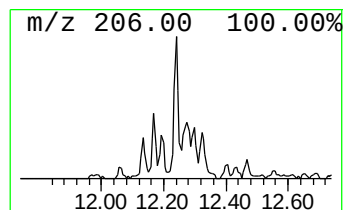
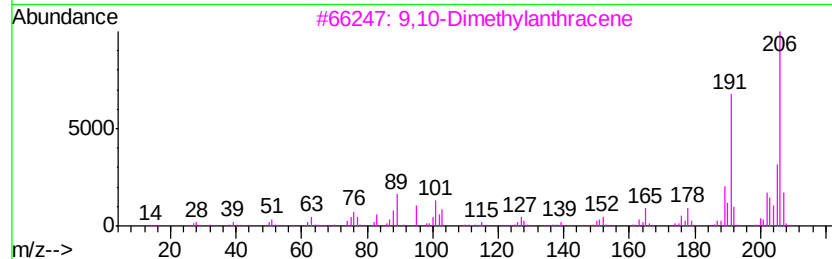
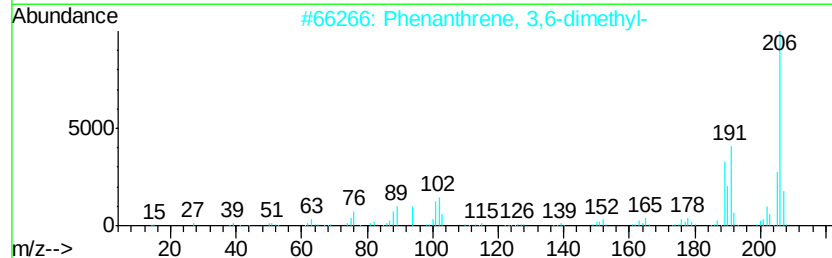
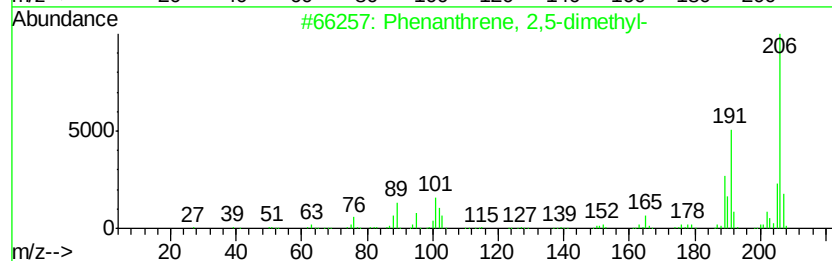
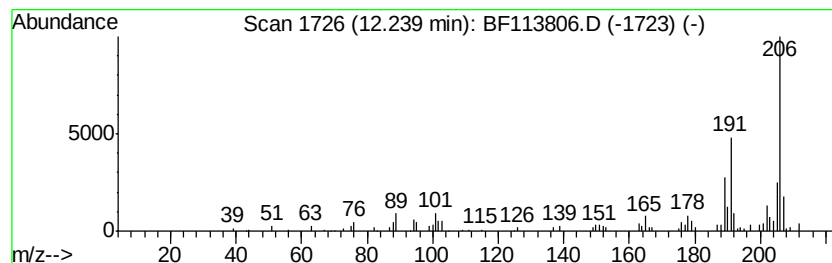
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.24	3.92 ng	70625	Phenanthrene-d10	11.19

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	94
2		Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
3		9,10-Dimethylantracene	206	C16H14	000781-43-1	91
4		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
5		Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	89



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113806.D
Acq On : 16 Apr 2019 21:18
Operator : JU/SJ
Sample : K2203-09 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

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

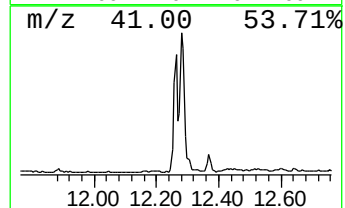
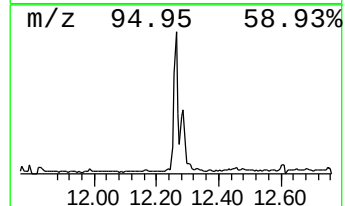
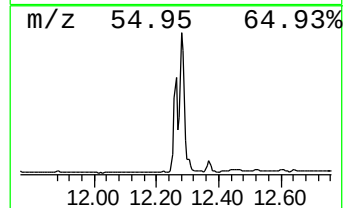
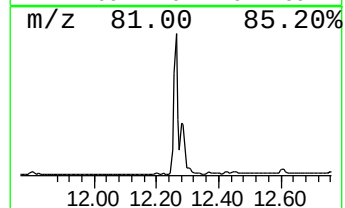
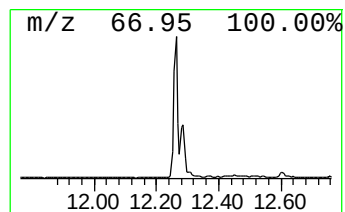
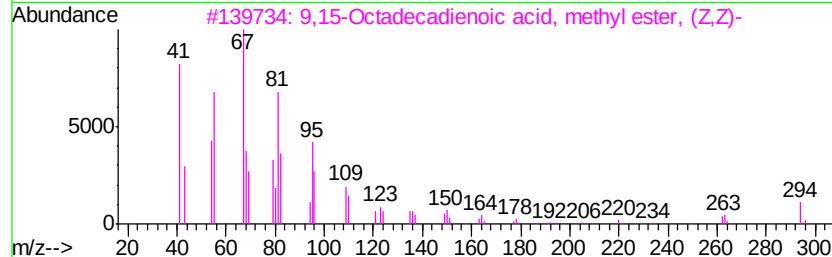
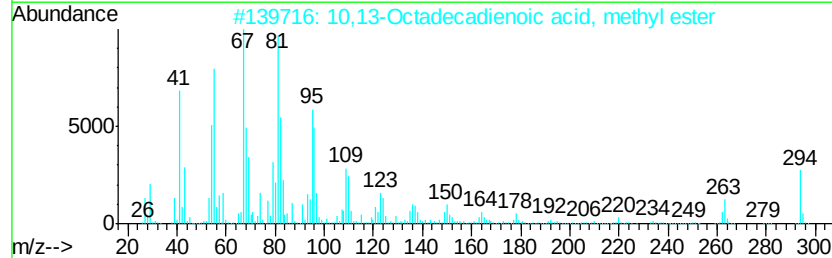
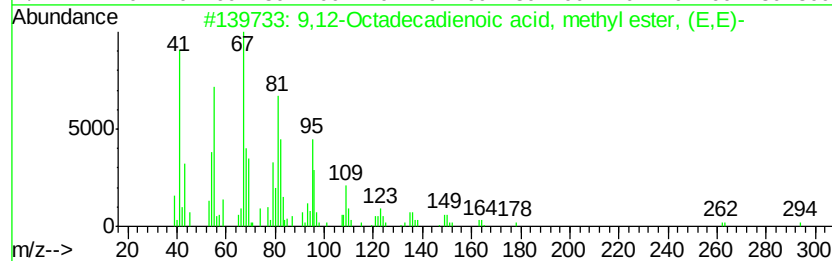
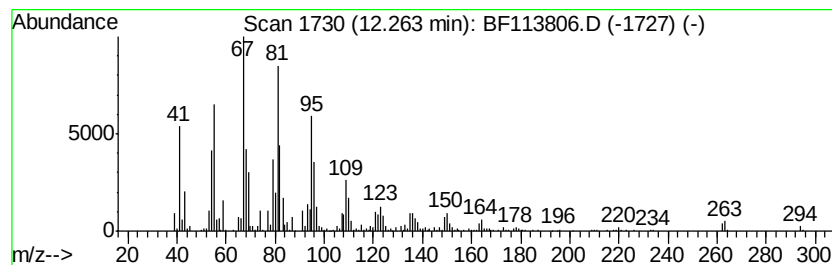
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 9,12-Octadecadienoic acid, ... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.26	51.10 ng	921202	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		9,15-Octadecadienoic acid, methy...	294	C19H34O2	017309-05-6	99
4		9,12-Octadecadienoic acid, methy...	294	C19H34O2	002462-85-3	99
5		9,12-Octadecadienoic acid (Z,Z)-...	294	C19H34O2	000112-63-0	99



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113806.D
Acq On : 16 Apr 2019 21:18
Operator : JU/SJ
Sample : K2203-09 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

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

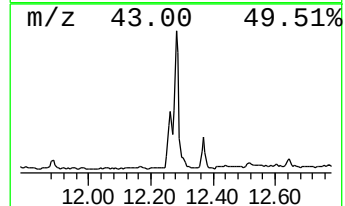
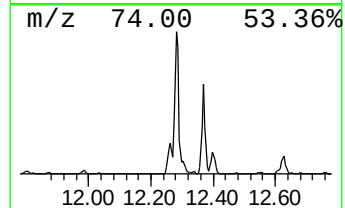
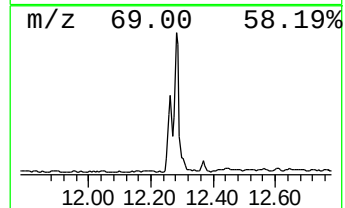
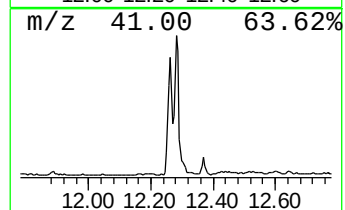
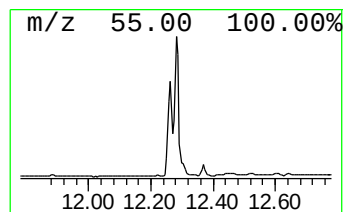
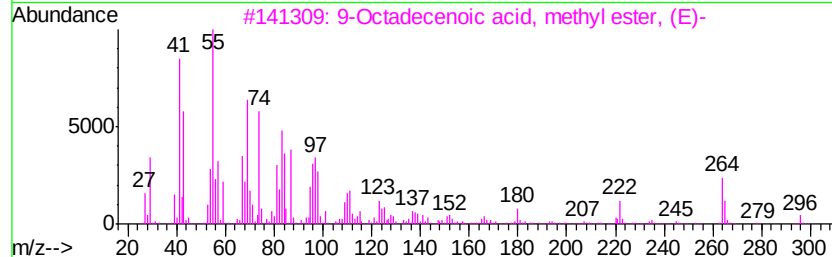
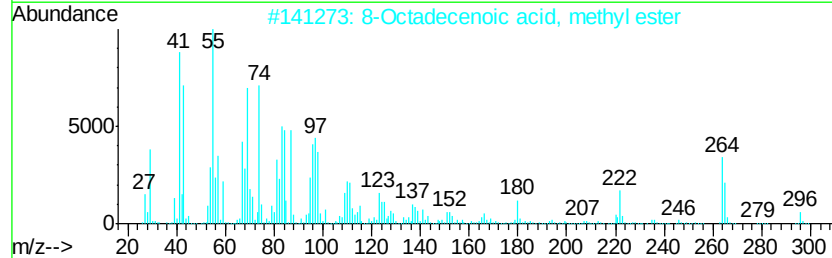
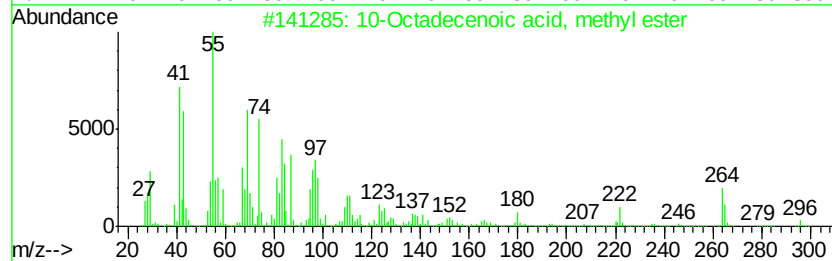
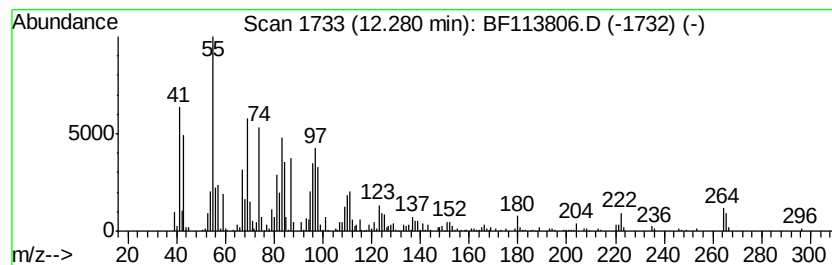
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 10-Octadecenoic acid, methyl ester Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.28	49.29 ng	888412	Phenanthrene-d10	11.19

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	10-Octadecenoic acid, methyl ester	296	C19H36O2	013481-95-3	99
2		8-Octadecenoic acid, methyl ester	296	C19H36O2	002345-29-1	99
3		9-Octadecenoic acid, methyl ester...	296	C19H36O2	001937-62-8	99
4		11-Octadecenoic acid, methyl ester...	296	C19H36O2	001937-63-9	99
5		7-Octadecenoic acid, methyl ester	296	C19H36O2	057396-98-2	98



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113806.D
Acq On : 16 Apr 2019 21:18
Operator : JU/SJ
Sample : K2203-09 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

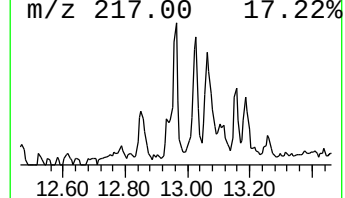
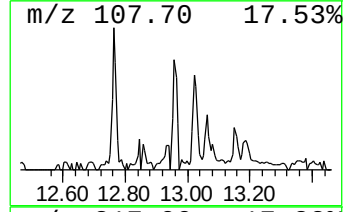
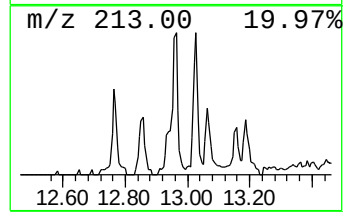
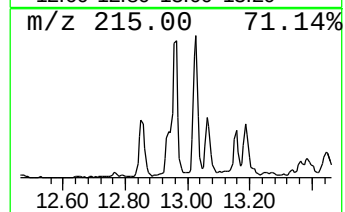
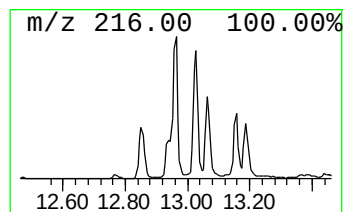
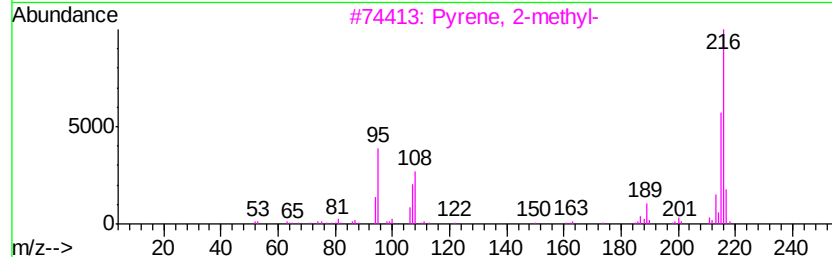
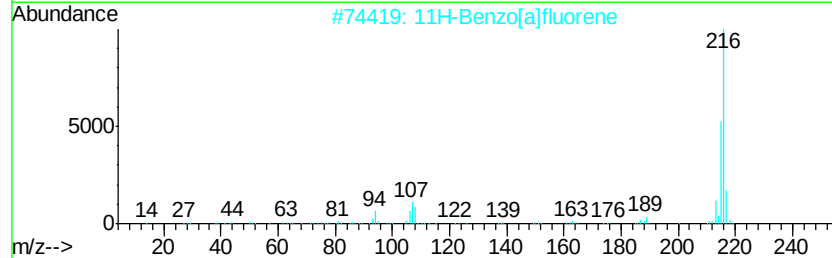
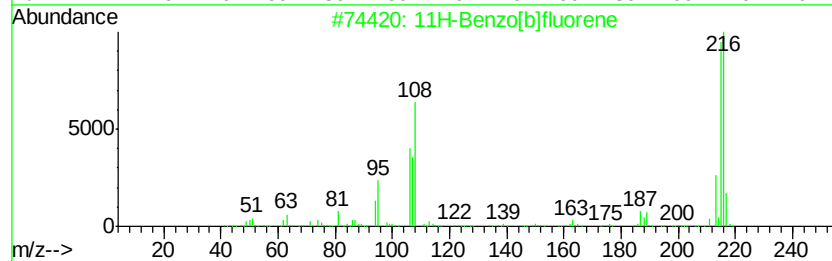
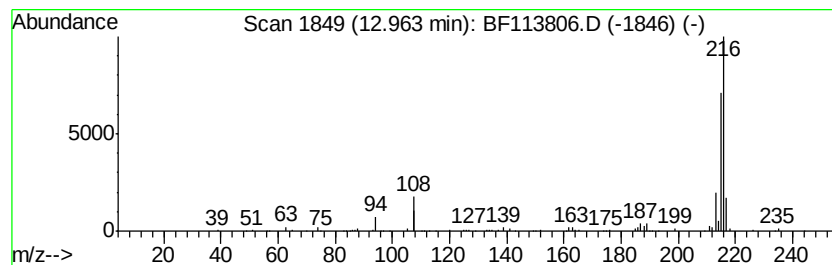
Instrument :
BNA_F
ClientSampleId :
SU-01-041519-A

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 11H-Benzo[b]fluorene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.96	2.77 ng	143001	Chrysene-d12	13.83	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	86
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	86
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113806.D
Acq On : 16 Apr 2019 21:18
Operator : JU/SJ
Sample : K2203-09 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

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

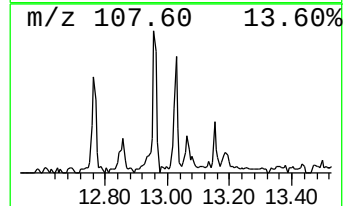
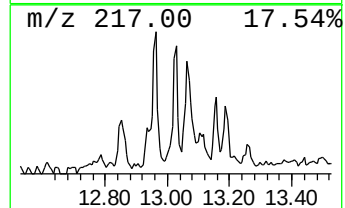
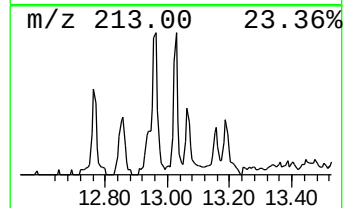
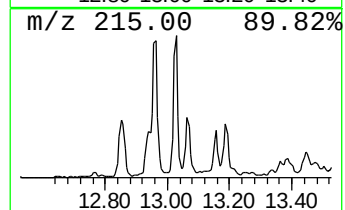
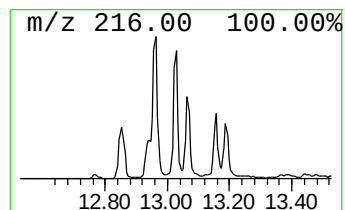
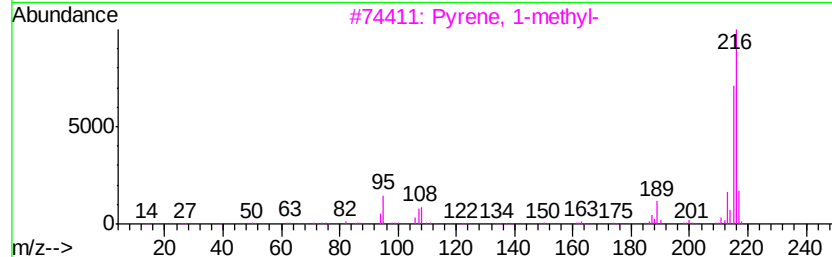
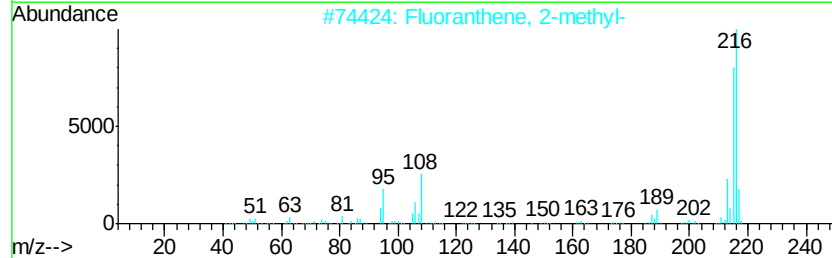
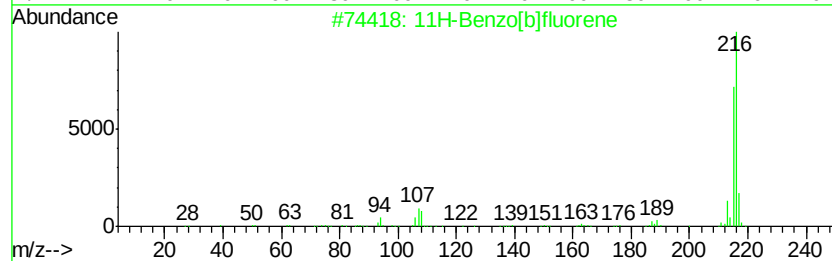
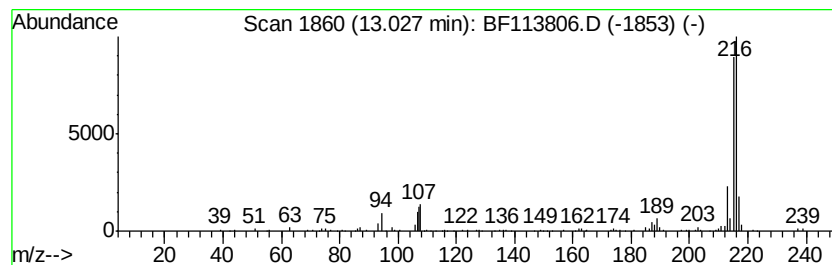
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 7H-Benzo[c]fluorene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.03	3.25 ng	167776	Chrysene-d12	13.83

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
2		Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
3		Pyrene, 1-methyl-	216	C17H12	002381-21-7	83
4		11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
5		7H-Benzo[c]fluorene	216	C17H12	000205-12-9	72



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113806.D
Acq On : 16 Apr 2019 21:18
Operator : JU/SJ
Sample : K2203-09 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

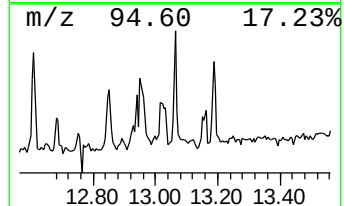
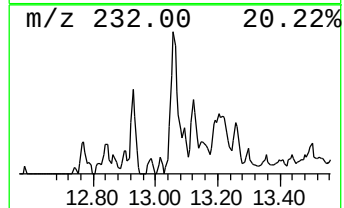
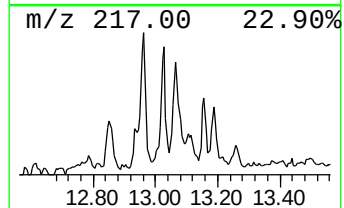
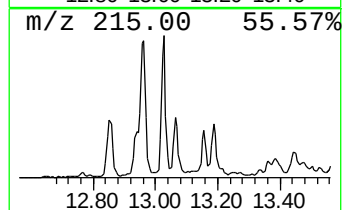
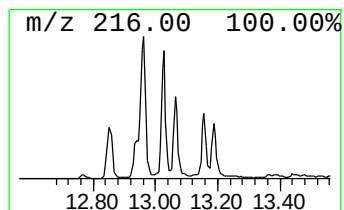
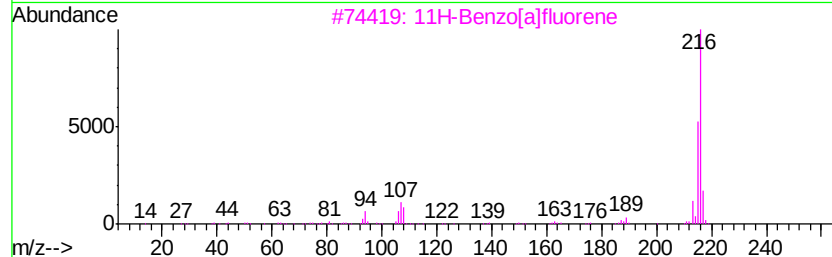
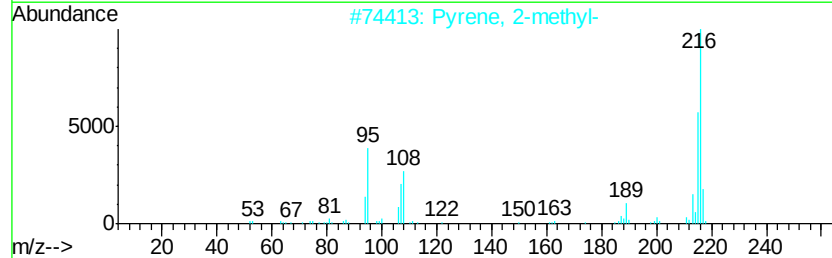
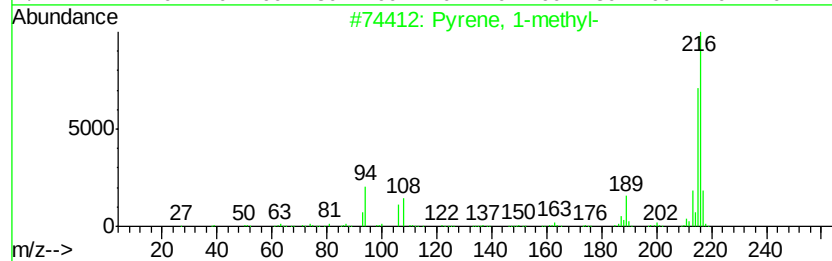
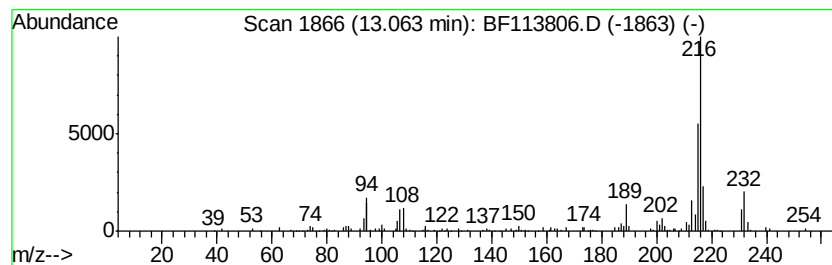
Instrument :
BNA_F
ClientSampleId :
SU-01-041519-A

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 17 11H-Benzo[a]fluorene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.06	2.13 ng	109675	Chrysene-d12	13.83	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Pyrene, 2-methyl-	216	C17H12	003442-78-2	90
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	68
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	64
5	1,3-Dihydro-5,6-dimethyl-1-(2-pr...	216	C12H12N2S	080276-22-8	50



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113806.D
Acq On : 16 Apr 2019 21:18
Operator : JU/SJ
Sample : K2203-09 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

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

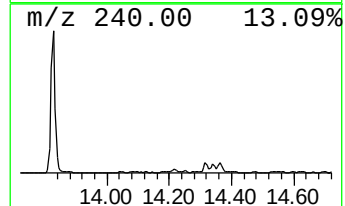
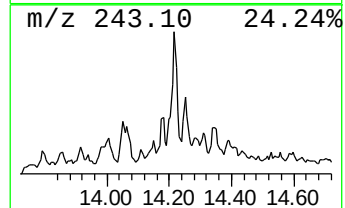
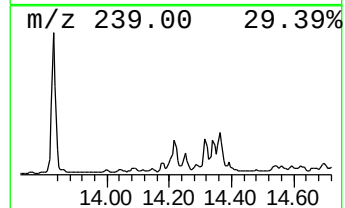
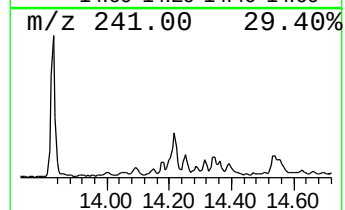
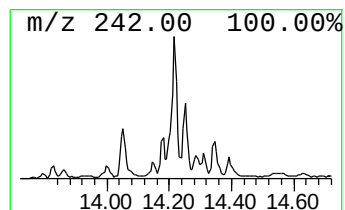
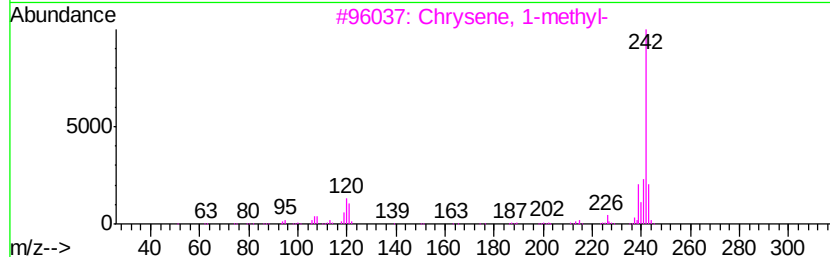
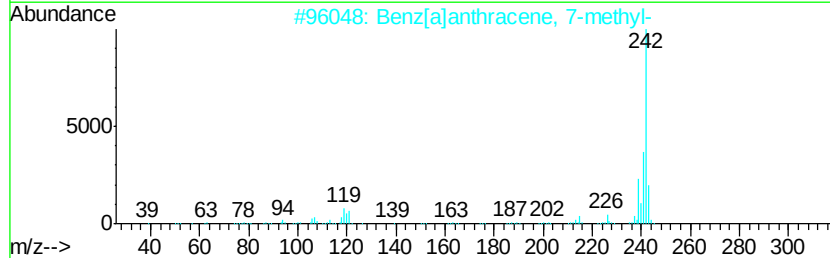
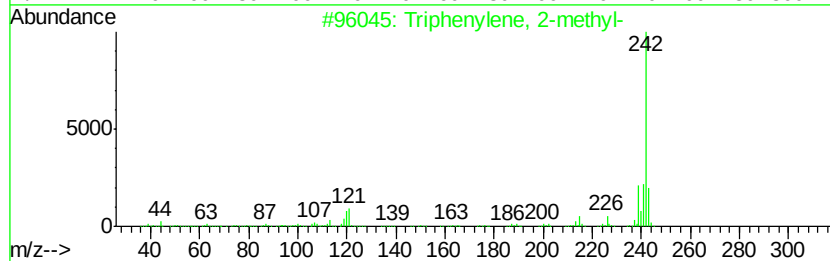
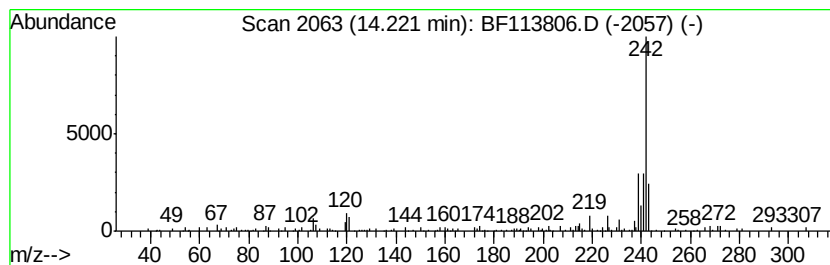
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Benz[a]anthracene, 7-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.22	2.61 ng	134698	Chrysene-d12	13.83

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	93
2		Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	91
3		Chrysene, 1-methyl-	242	C19H14	003351-28-8	90
4		Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	89
5		Benz[a]anthracene, 2-methyl-	242	C19H14	002498-76-2	86



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
Data File : BF113806.D
Acq On : 16 Apr 2019 21:18
Operator : JU/SJ
Sample : K2203-09 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

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

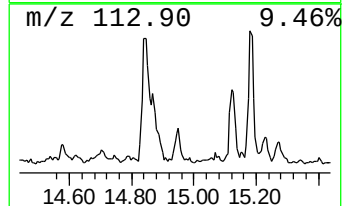
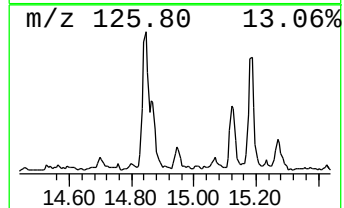
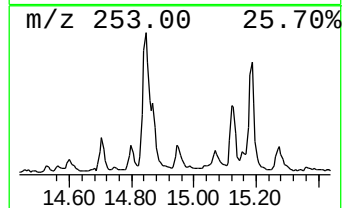
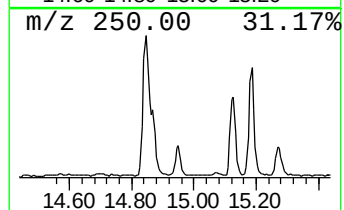
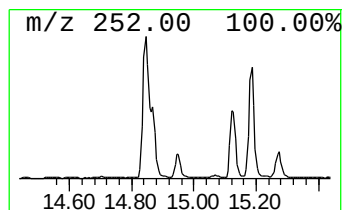
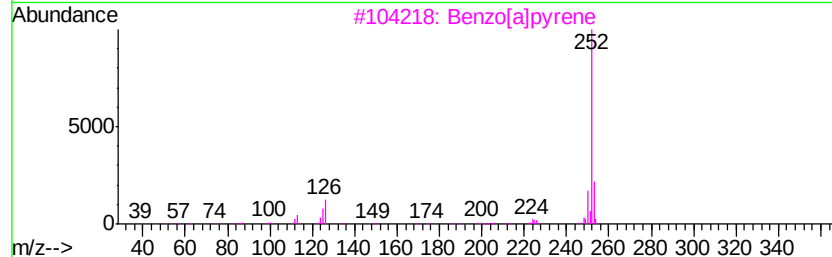
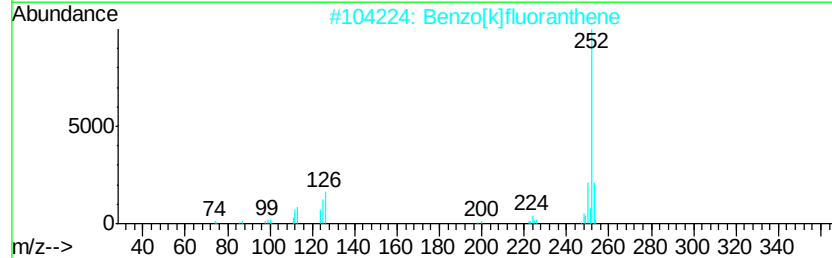
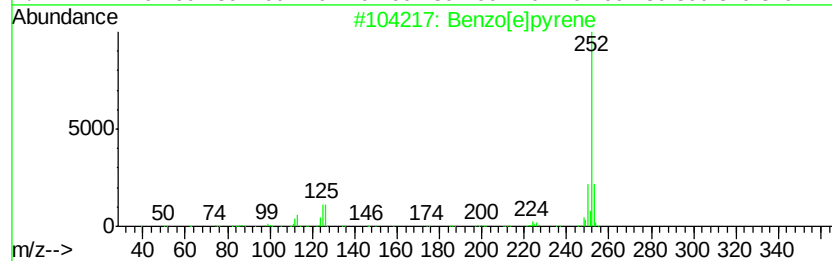
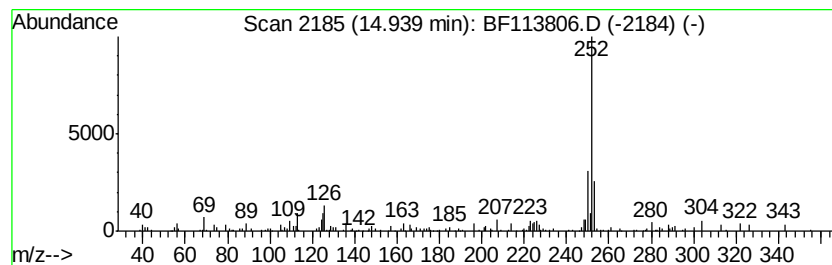
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF040319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Benzo[e]pyrene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.94	3.46 ng	69818	Perylene-d12	15.24

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2		Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
3		Benzo[a]pyrene	252	C20H12	000050-32-8	94
4		Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
5		Benzo[j]fluoranthene	252	C20H12	000205-82-3	90



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF041619\
 Data File : BF113806.D
 Acq On : 16 Apr 2019 21:18
 Operator : JU/SJ
 Sample : K2203-09 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

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

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
unknown6.45	6.45	76.3	ng	1263500	1	6.67	331005	20.0
Tridecane	10.61	2.3	ng	41491	4	11.19	360514	20.0
Dibenzothiophene	11.09	2.3	ng	41901	4	11.19	360514	20.0
Hexadecanoic acid...	11.58	14.1	ng	254383	4	11.19	360514	20.0
Phenanthrene, 2-m...	11.69	4.6	ng	83425	4	11.19	360514	20.0
Phenanthrene, 1-m...	11.72	9.0	ng	162144	4	11.19	360514	20.0
Phenanthrene, 3-m...	11.77	3.0	ng	53353	4	11.19	360514	20.0
4H-Cyclopenta[def...	11.80	9.9	ng	178923	4	11.19	360514	20.0
Phenanthrene, 4-m...	11.83	3.6	ng	64814	4	11.19	360514	20.0
Naphthalene, 2-ph...	11.99	3.4	ng	61966	4	11.19	360514	20.0
Phenanthrene, 2,5...	12.24	3.9	ng	70625	4	11.19	360514	20.0
9,12-Octadecadien...	12.26	51.1	ng	921202	4	11.19	360514	20.0
10-Octadecenoic a...	12.28	49.3	ng	888412	4	11.19	360514	20.0
11H-Benzo[b]fluorene	12.96	2.8	ng	143001	5	13.83	1031530	20.0
7H-Benzo[c]fluorene	13.03	3.3	ng	167776	5	13.83	1031530	20.0
11H-Benzo[a]fluorene	13.06	2.1	ng	109675	5	13.83	1031530	20.0
Benz[a]anthracene...	14.22	2.6	ng	134698	5	13.83	1031530	20.0
Benzo[e]pyrene	14.94	3.5	ng	69818	6	15.24	403384	20.0