

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
 Data File : BF107749.D
 Acq On : 27 Jul 2018 16:46
 Operator : JU/SJ
 Sample : J4143-05 5X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GW-01(3-5)

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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	5.178	480	483	499	rBV	223873	266601	9.54%	0.638%
2	5.601	551	555	573	rBV2	72792	290783	10.41%	0.696%
3	6.601	721	725	744	rBV	154791	572070	20.48%	1.369%
4	6.736	744	748	772	rVB	330089	714215	25.57%	1.710%
5	6.960	783	786	805	rBV	473738	828979	29.68%	1.984%
6	7.113	809	812	826	rVV	403159	538220	19.27%	1.288%
7	7.531	879	883	903	rBV	133073	436815	15.64%	1.046%
8	7.972	954	958	964	rBV4	21380	39500	1.41%	0.095%
9	8.242	1000	1004	1006	rBV	931544	906610	32.46%	2.170%
10	8.266	1006	1008	1027	rVB	434809	686103	24.56%	1.642%
11	8.954	1122	1125	1133	rBV	392546	497095	17.80%	1.190%
12	9.054	1137	1142	1155	rVB	574518	654966	23.45%	1.568%
13	9.313	1182	1186	1195	rBV	698036	779295	27.90%	1.865%
14	9.377	1195	1197	1201	rVB	40154	38363	1.37%	0.092%
15	9.419	1201	1204	1213	rVB	78377	111907	4.01%	0.268%
16	9.489	1213	1216	1218	rBV	41250	46439	1.66%	0.111%
17	9.513	1218	1220	1227	rVB	139948	184231	6.60%	0.441%
18	9.583	1227	1232	1236	rBV	236816	347667	12.45%	0.832%
19	9.654	1241	1244	1247	rVV	475659	539778	19.32%	1.292%
20	9.683	1247	1249	1260	rVV3	252833	426506	15.27%	1.021%
21	9.772	1261	1264	1273	rVV	216000	314322	11.25%	0.752%
22	9.860	1276	1279	1285	rVV2	272955	325881	11.67%	0.780%
23	9.907	1285	1287	1292	rVB	50634	48389	1.73%	0.116%
24	9.977	1296	1299	1300	rBV	100774	94306	3.38%	0.226%
25	10.001	1300	1303	1306	rVV	1173836	1152779	41.27%	2.759%
26	10.030	1306	1308	1317	rVV	654417	771703	27.63%	1.847%
27	10.101	1317	1320	1324	rVV2	90478	132173	4.73%	0.316%
28	10.142	1324	1327	1330	rVV4	40510	62189	2.23%	0.149%
29	10.195	1333	1336	1341	rVV4	161577	302473	10.83%	0.724%
30	10.236	1341	1343	1347	rVV	167025	174765	6.26%	0.418%
31	10.272	1347	1349	1352	rVV3	39578	38900	1.39%	0.093%
32	10.313	1352	1356	1359	rVV	163945	204237	7.31%	0.489%
33	10.342	1359	1361	1367	rVV	108066	124649	4.46%	0.298%
34	10.407	1367	1372	1374	rVV3	131380	191458	6.85%	0.458%

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072718\
 Data File : BF107749.D
 Acq On : 27 Jul 2018 16:46
 Operator : JU/SJ
 Sample : J4143-05 5X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GW-01(3-5)

Integration Parameters: rteint.p
 Integrator: RTE
 Smoothing : ON
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 3 % of largest Peak
 Max Peaks: 100
 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.454	1378	1380	1384	rVV2	108834	138677	4.96%	0.332%
36	10.495	1384	1387	1389	rVV2	90657	91048	3.26%	0.218%
37	10.519	1389	1391	1393	rVV	114521	116011	4.15%	0.278%
38	10.548	1393	1396	1403	rVV	620725	873450	31.27%	2.091%
39	10.624	1406	1409	1413	rVV5	106569	197681	7.08%	0.473%
40	10.660	1413	1415	1418	rVV	121808	134989	4.83%	0.323%
41	10.707	1418	1423	1426	rVV4	130046	216787	7.76%	0.519%
42	10.736	1426	1428	1432	rVV	46539	66458	2.38%	0.159%
43	10.795	1432	1438	1450	rVV5	293661	616909	22.08%	1.477%
44	10.895	1450	1455	1463	rVB3	88822	202126	7.24%	0.484%
45	11.101	1485	1490	1492	rBV	211303	295431	10.58%	0.707%
46	11.124	1492	1494	1501	rVB	133677	165577	5.93%	0.396%
47	11.183	1501	1504	1506	rBV	108226	103032	3.69%	0.247%
48	11.224	1508	1511	1513	rBV3	41667	42318	1.51%	0.101%
49	11.248	1513	1515	1519	rVB2	56997	56361	2.02%	0.135%
50	11.301	1521	1524	1527	rBV	54008	51904	1.86%	0.124%
51	11.336	1527	1530	1533	rBV2	69826	83082	2.97%	0.199%
52	11.395	1536	1540	1552	rVB	392774	533252	19.09%	1.276%
53	11.495	1554	1557	1559	rBV	901561	948959	33.97%	2.271%
54	11.524	1559	1562	1568	rVV	2573191	2793388	100.00%	6.686%
55	11.571	1568	1570	1578	rVB	499948	655077	23.45%	1.568%
56	11.736	1596	1598	1600	rBV2	36225	38979	1.40%	0.093%
57	11.760	1600	1602	1604	rVB	72033	56782	2.03%	0.136%
58	11.783	1604	1606	1609	rBV	99557	80434	2.88%	0.193%
59	11.824	1611	1613	1618	rBV2	223326	258802	9.26%	0.619%
60	11.913	1624	1628	1632	rBV	153894	204521	7.32%	0.490%
61	11.995	1639	1642	1645	rBV	508493	600880	21.51%	1.438%
62	12.024	1645	1647	1653	rVB	552718	596866	21.37%	1.429%
63	12.077	1653	1656	1658	rBV	182766	169453	6.07%	0.406%
64	12.113	1658	1662	1664	rBV2	710695	865123	30.97%	2.071%
65	12.230	1679	1682	1685	rVB2	47909	45689	1.64%	0.109%
66	12.289	1689	1692	1696	rBV	257352	330075	11.82%	0.790%
67	12.418	1712	1714	1716	rBV	40490	36248	1.30%	0.087%
68	12.442	1716	1718	1721	rVV2	56627	47662	1.71%	0.114%
69	12.471	1721	1723	1725	rVV	101471	73219	2.62%	0.175%
70	12.495	1725	1727	1730	rVB3	77598	65950	2.36%	0.158%
71	12.548	1732	1736	1739	rBV2	343343	429047	15.36%	1.027%

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072718\
 Data File : BF107749.D
 Acq On : 27 Jul 2018 16:46
 Operator : JU/SJ
 Sample : J4143-05 5X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GW-01(3-5)

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

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

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	12.589	1739	1743	1745	rVV2	154193	228690	8.19%	0.547%
73	12.642	1748	1752	1760	rVB4	141646	316644	11.34%	0.758%
74	12.713	1760	1764	1769	rBV	1792986	2023402	72.44%	4.843%
75	12.777	1773	1775	1778	rVB	77613	61408	2.20%	0.147%
76	12.813	1778	1781	1786	rBV	211940	224215	8.03%	0.537%
77	12.866	1787	1790	1792	rBV	123631	120738	4.32%	0.289%
78	12.948	1797	1804	1809	rBV	2066743	2536710	90.81%	6.072%
79	12.995	1809	1812	1815	rVB2	128680	160192	5.73%	0.383%
80	13.077	1822	1826	1835	rVB	637198	782393	28.01%	1.873%
81	13.160	1836	1840	1846	rBV3	166174	294504	10.54%	0.705%
82	13.271	1856	1859	1864	rVB	408427	492609	17.63%	1.179%
83	13.318	1864	1867	1868	rBV2	61046	60253	2.16%	0.144%
84	13.336	1868	1870	1874	rVV	299033	336629	12.05%	0.806%
85	13.377	1874	1877	1885	rVB2	264017	344842	12.34%	0.825%
86	13.471	1890	1893	1895	rVV	210280	216088	7.74%	0.517%
87	13.501	1895	1898	1907	rVB	257543	377420	13.51%	0.903%
88	13.895	1962	1965	1967	rBV	207272	201110	7.20%	0.481%
89	13.924	1967	1970	1972	rVV	157006	153186	5.48%	0.367%
90	13.948	1972	1974	1978	rVV3	112212	138894	4.97%	0.332%
91	14.142	2003	2007	2011	rBV2	1370138	2364019	84.63%	5.658%
92	14.171	2011	2012	2020	rVB	967625	1017867	36.44%	2.436%
93	14.536	2072	2074	2077	rVB	185197	136367	4.88%	0.326%
94	15.224	2187	2191	2194	rBV	590327	996638	35.68%	2.386%
95	15.336	2208	2210	2217	rVB	151537	198992	7.12%	0.476%
96	15.548	2242	2246	2253	rVB	375502	552057	19.76%	1.321%
97	15.618	2253	2258	2262	rBV	643718	956174	34.23%	2.289%
98	15.683	2266	2269	2273	rVB	464542	567094	20.30%	1.357%
99	16.112	2340	2342	2347	rVB2	128837	147955	5.30%	0.354%
100	17.259	2532	2537	2553	rVB4	217732	644729	23.08%	1.543%

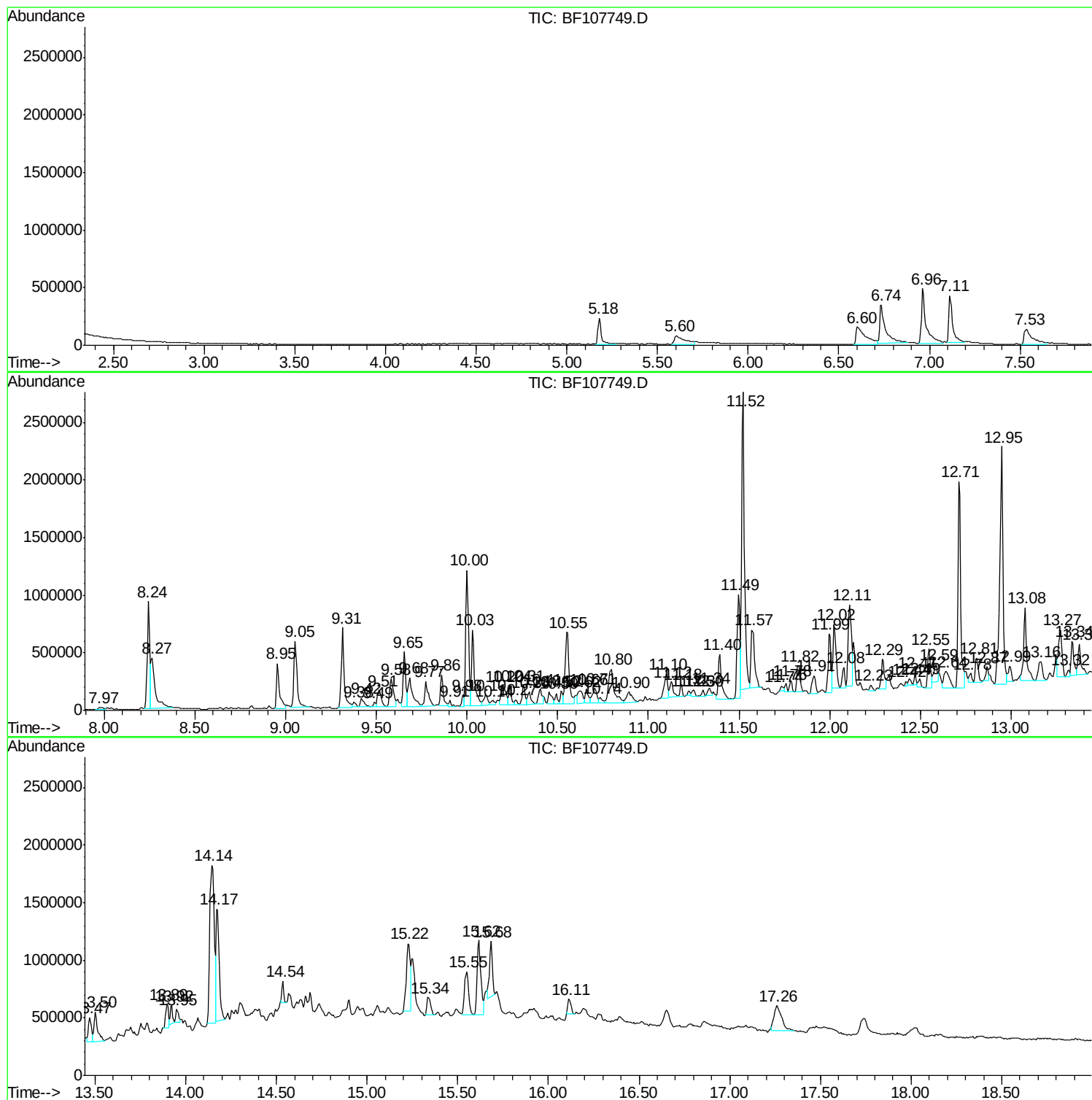
Sum of corrected areas: 41778433

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107749.D
Acq On : 27 Jul 2018 16:46
Operator : JU/SJ
Sample : J4143-05 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.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\BF072718\
Data File : BF107749.D
Acq On : 27 Jul 2018 16:46
Operator : JU/SJ
Sample : J4143-05 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampled :
GW-01(3-5)

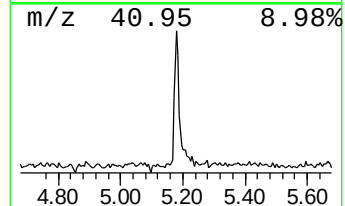
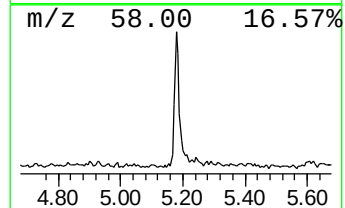
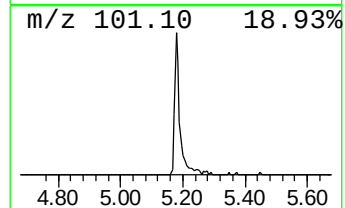
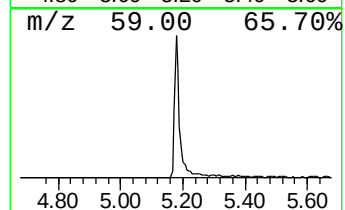
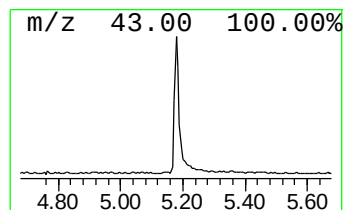
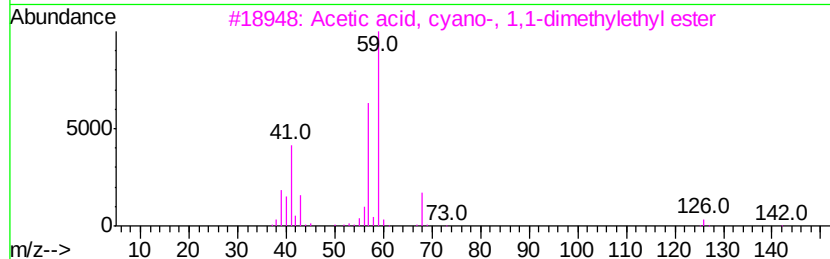
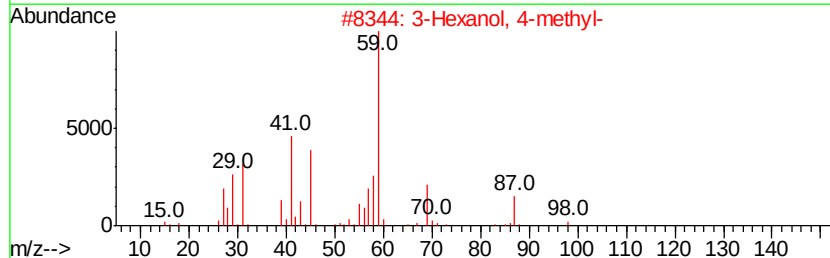
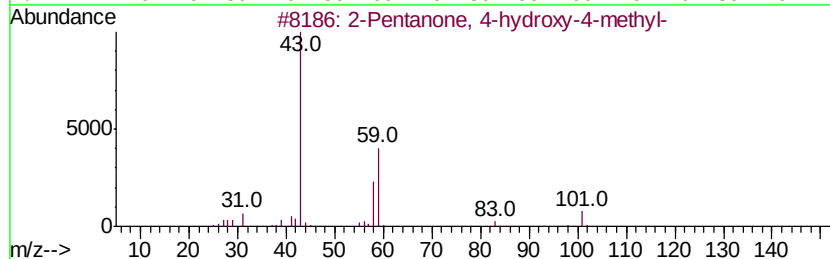
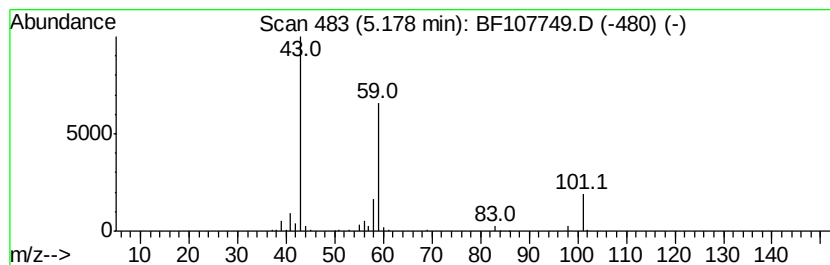
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.18	6.43 ng	266601	1,4-Dichlorobenzene-d4	6.96

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2			3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
3			Acetic acid, cyano-, 1,1-dimethyl...	141	C7H11NO2	001116-98-9	23
4			1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5			Acetone	58	C3H6O	000067-64-1	9



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107749.D
Acq On : 27 Jul 2018 16:46
Operator : JU/SJ
Sample : J4143-05 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

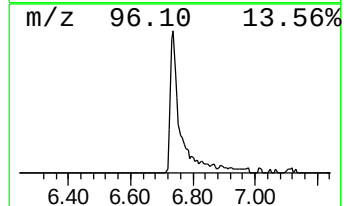
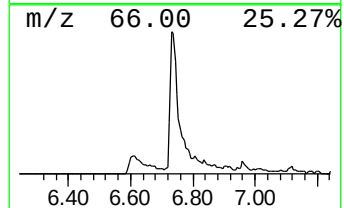
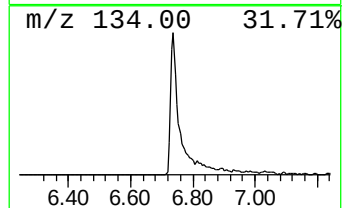
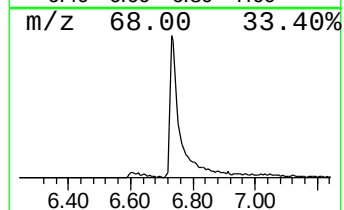
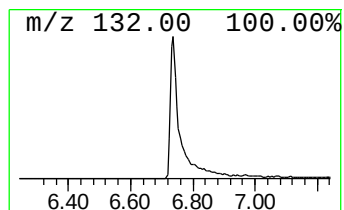
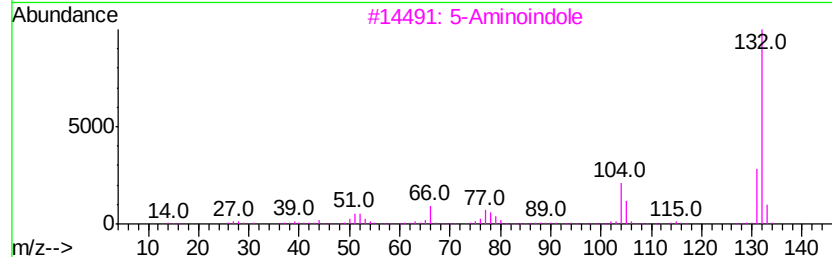
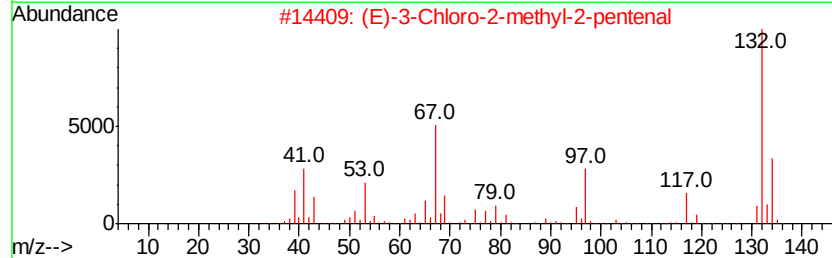
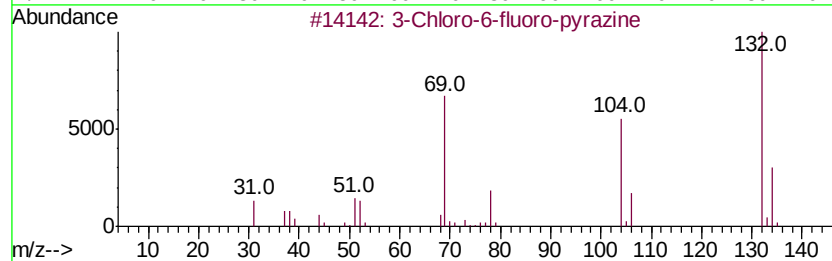
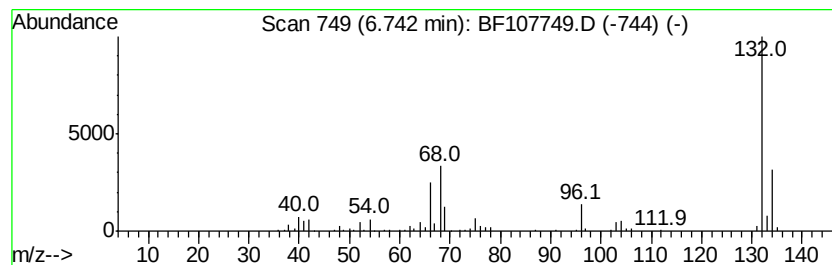
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 unknown6.74 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.74	17.23 ng	714215	1,4-Dichlorobenzene-d4	6.96

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	25
3		5-Aminoindole	132	C8H8N2	005192-03-0	12
4		Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
5		5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107749.D
Acq On : 27 Jul 2018 16:46
Operator : JU/SJ
Sample : J4143-05 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

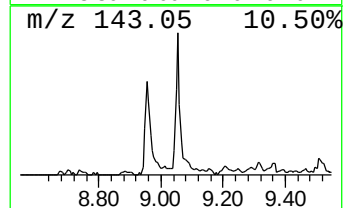
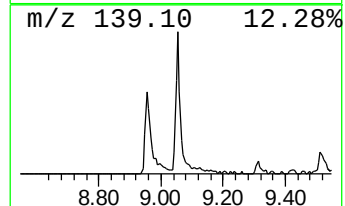
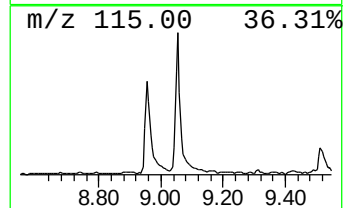
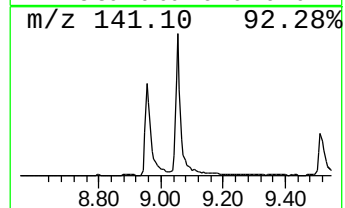
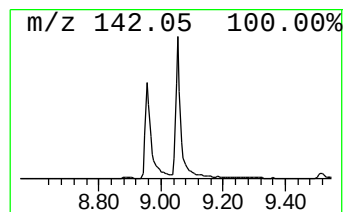
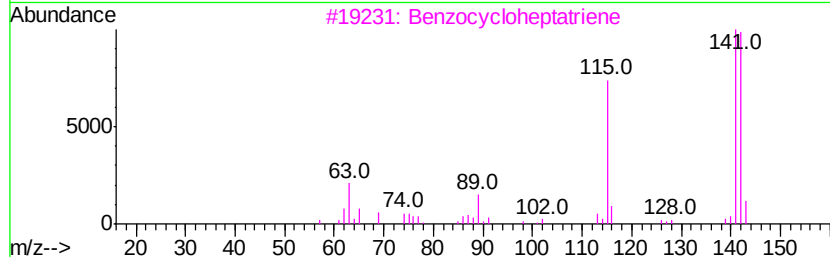
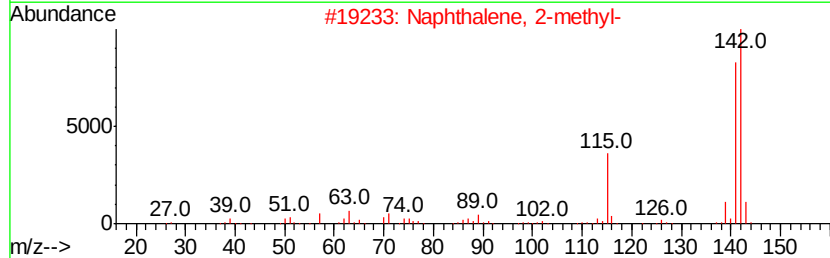
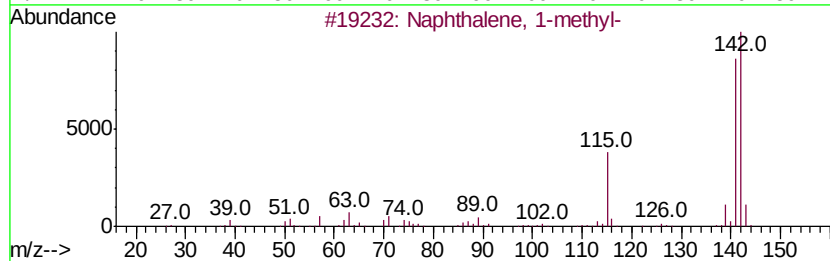
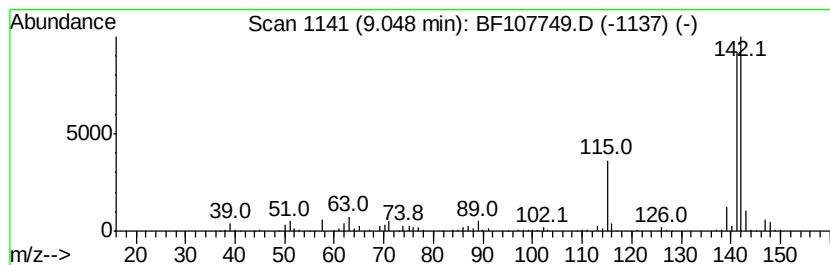
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Naphthalene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.05	14.45 ng	654966	Naphthalene-d8	8.24

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
2		Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
3		Benzocycloheptatriene	142	C11H10	000264-09-5	91
4		Bicyclo[4.4.1]undeca-1,3,5,7,9-p...	142	C11H10	002443-46-1	91
5		1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	91



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107749.D
Acq On : 27 Jul 2018 16:46
Operator : JU/SJ
Sample : J4143-05 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

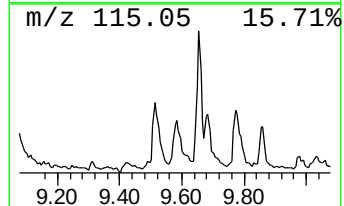
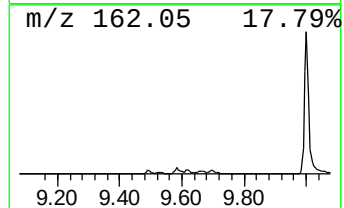
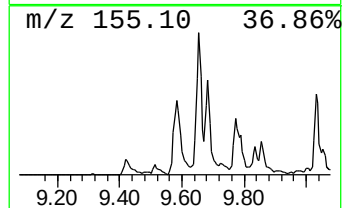
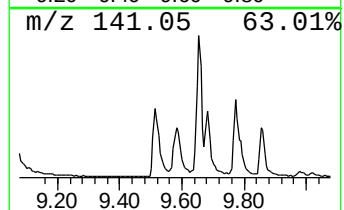
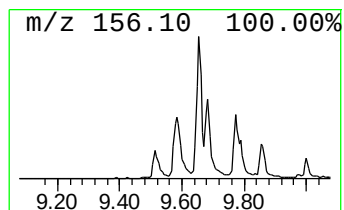
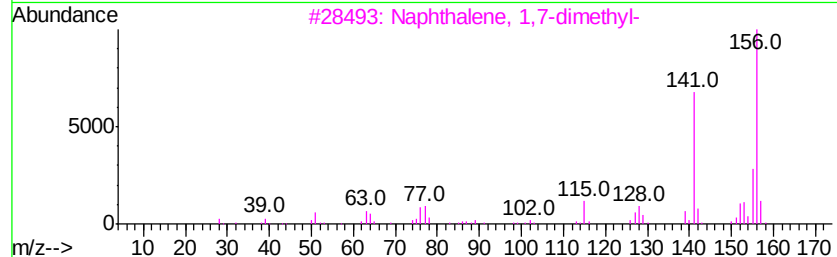
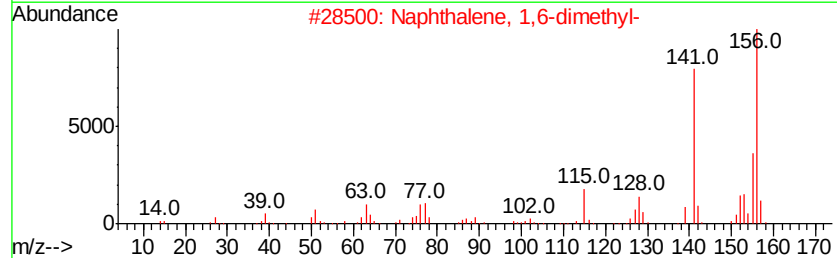
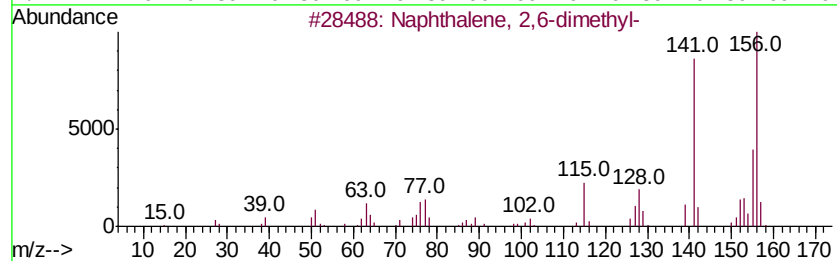
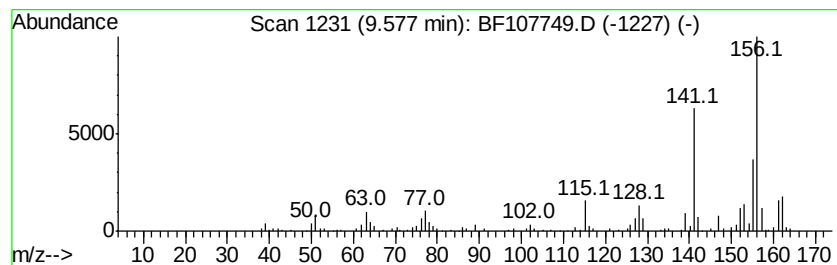
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Naphthalene, 2,6-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.58	6.03 ng	347667	Acenaphthene-d10	10.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
2		Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	98
3		Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
4		Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	95
5		Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	95



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107749.D
Acq On : 27 Jul 2018 16:46
Operator : JU/SJ
Sample : J4143-05 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

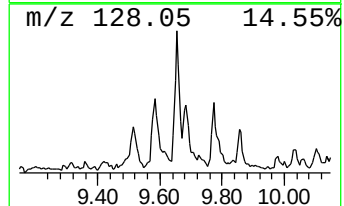
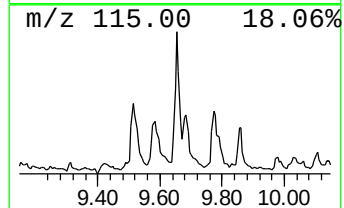
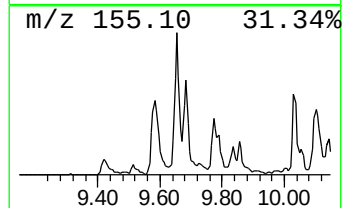
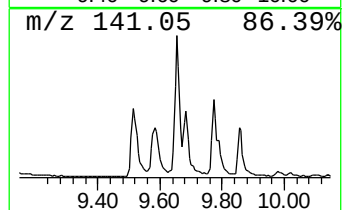
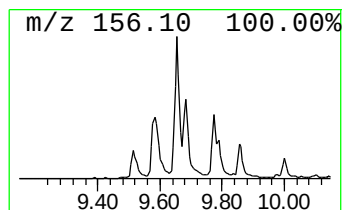
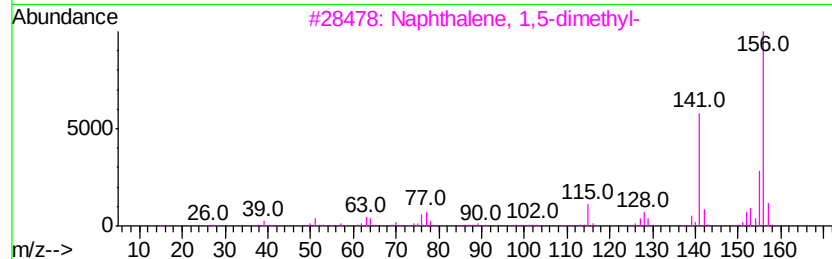
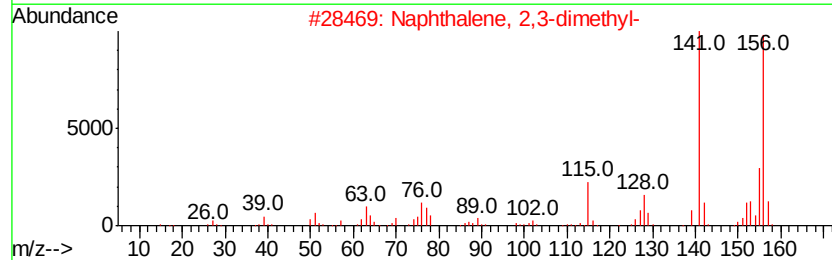
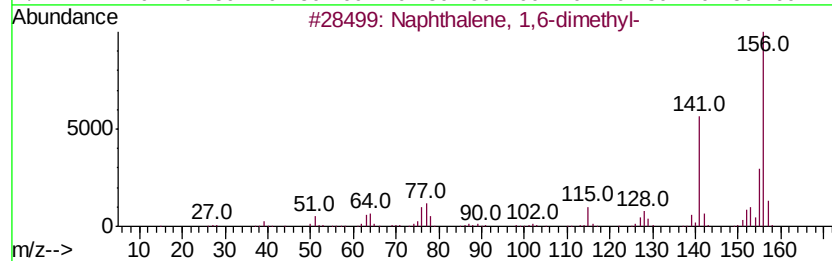
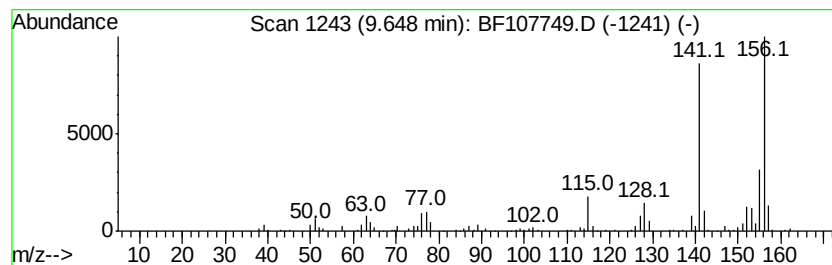
Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Naphthalene, 1,6-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.65	9.36 ng	539778	Acenaphthene-d10	10.00
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Naphthalene, 1,6-dimethyl-	156 C12H12	000575-43-9 97
2		Naphthalene, 2,3-dimethyl-	156 C12H12	000581-40-8 97
3		Naphthalene, 1,5-dimethyl-	156 C12H12	000571-61-9 97
4		Naphthalene, 1,4-dimethyl-	156 C12H12	000571-58-4 97
5		Naphthalene, 1,3-dimethyl-	156 C12H12	000575-41-7 96



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107749.D
Acq On : 27 Jul 2018 16:46
Operator : JU/SJ
Sample : J4143-05 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

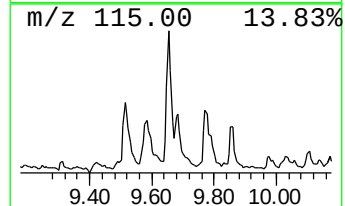
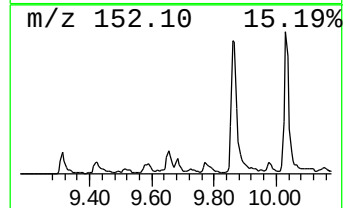
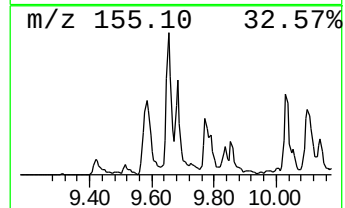
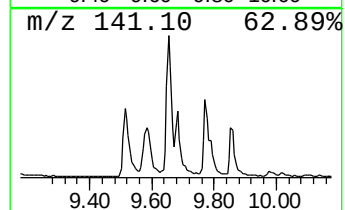
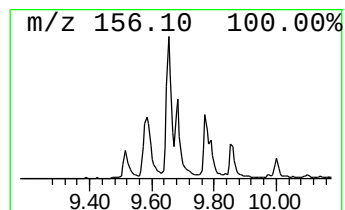
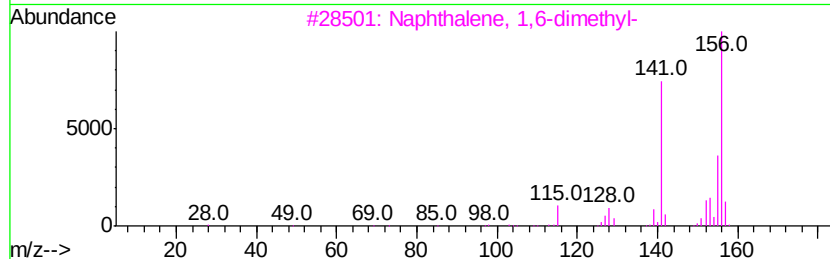
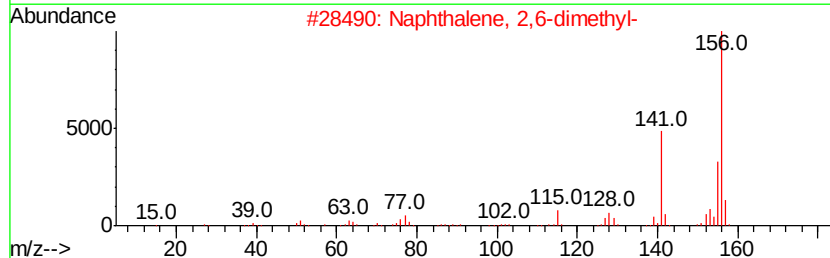
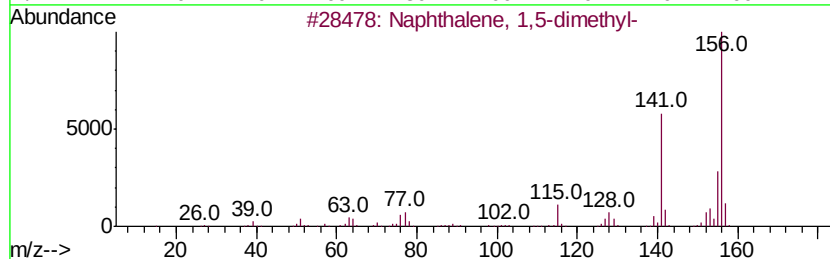
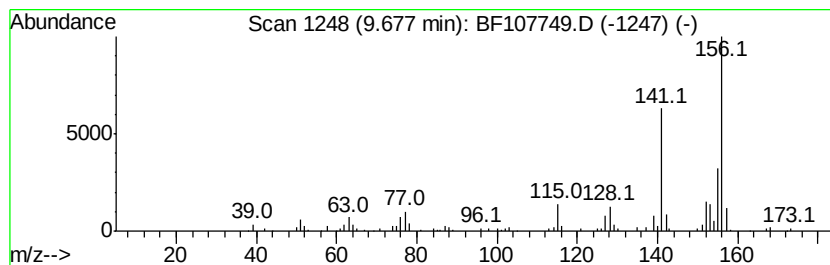
Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Naphthalene, 1,5-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.	
9.68	7.40 ng	426506	Acenaphthene-d10	10.00	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
2	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
3	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
4	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	96
5	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107749.D
Acq On : 27 Jul 2018 16:46
Operator : JU/SJ
Sample : J4143-05 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

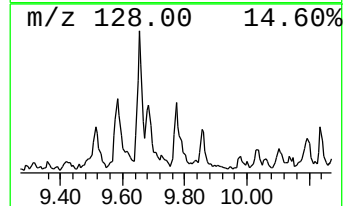
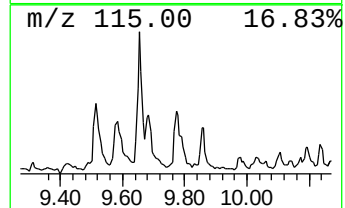
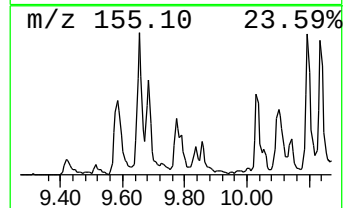
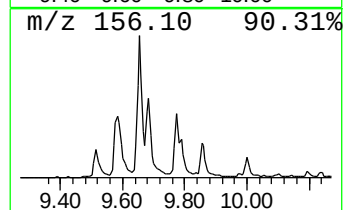
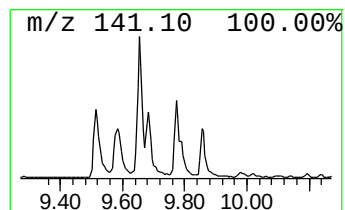
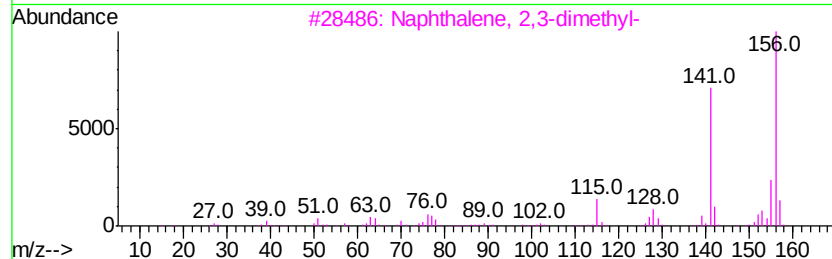
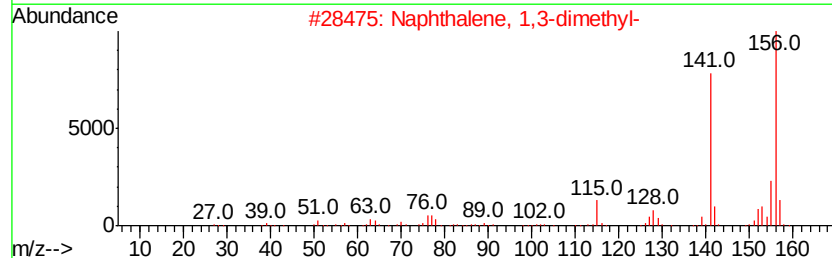
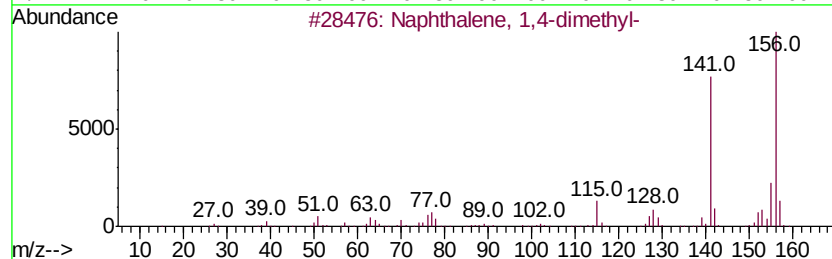
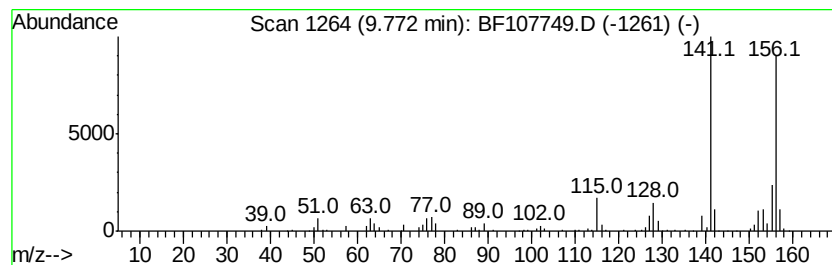
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Naphthalene, 1,4-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.77	5.45 ng	314322	Acenaphthene-d10	10.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
2		Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
3		Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
4		Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	95
5		Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	95



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107749.D
Acq On : 27 Jul 2018 16:46
Operator : JU/SJ
Sample : J4143-05 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

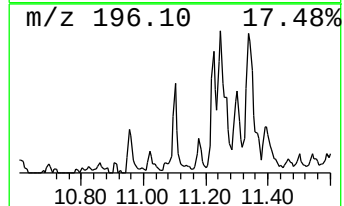
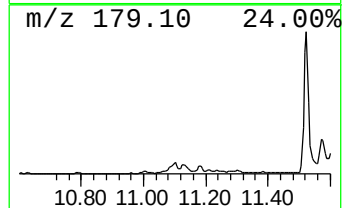
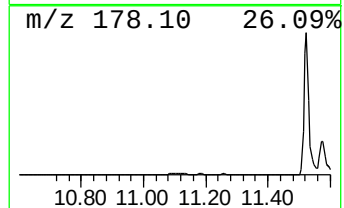
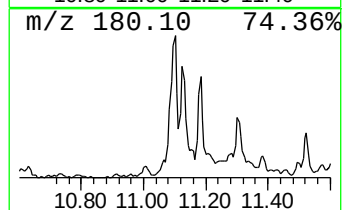
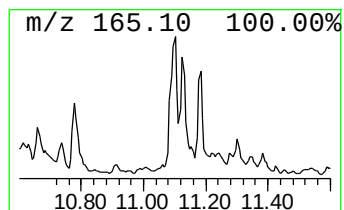
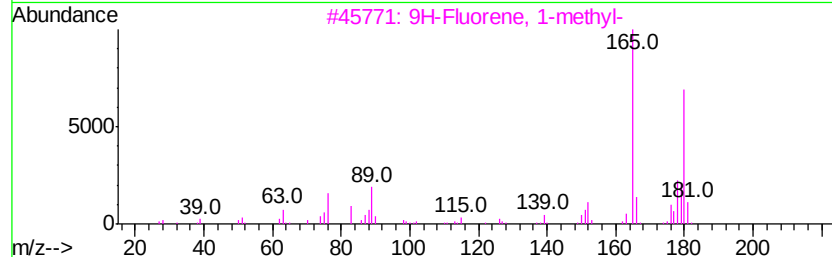
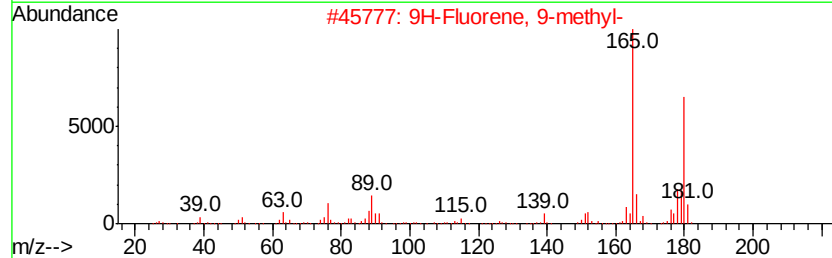
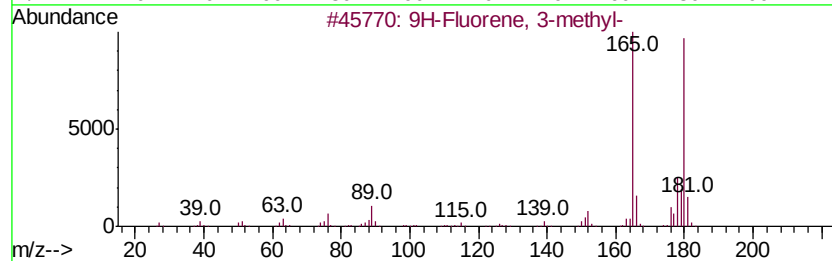
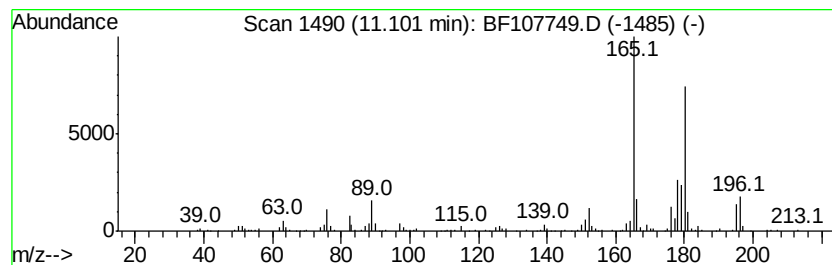
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 9H-Fluorene, 3-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.10	6.23 ng	295431	Phenanthrene-d10	11.49

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	94
2		9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	90
3		9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	90
4		9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	89
5		4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	70



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107749.D
Acq On : 27 Jul 2018 16:46
Operator : JU/SJ
Sample : J4143-05 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

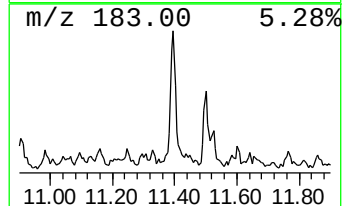
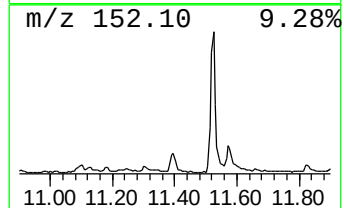
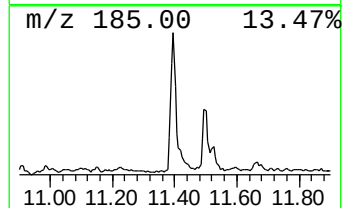
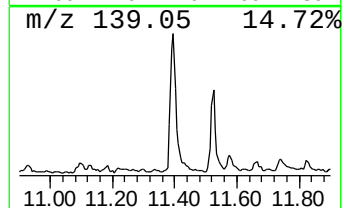
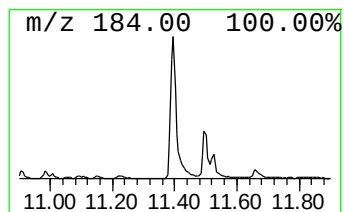
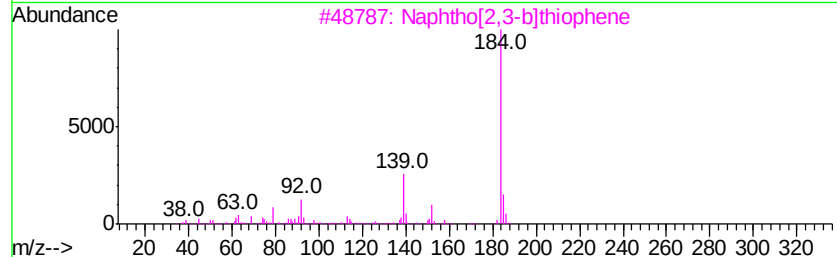
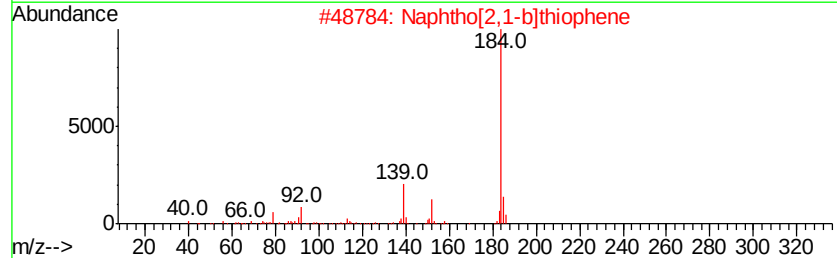
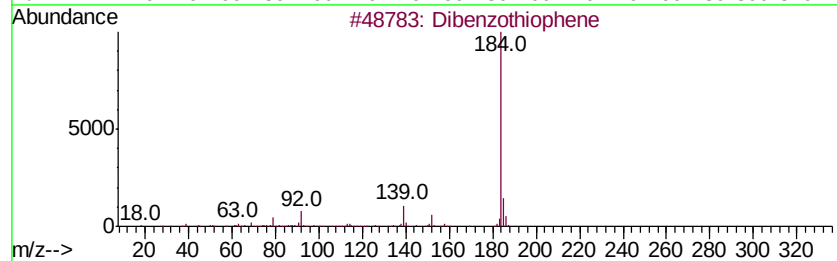
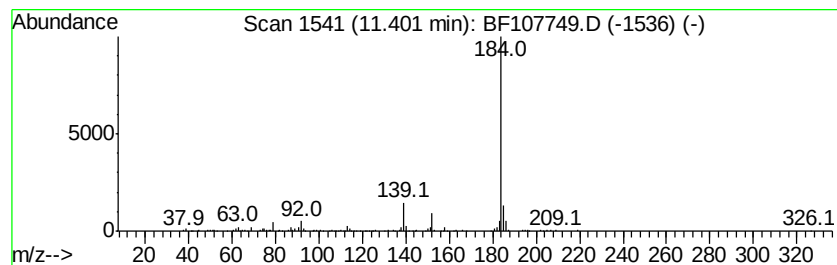
Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Dibenzothiophene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD		R.T.
11.40	11.24 ng	533252	Phenanthrene-d10		11.49
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	96
2	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	96
3	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
4	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
5	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107749.D
Acq On : 27 Jul 2018 16:46
Operator : JU/SJ
Sample : J4143-05 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

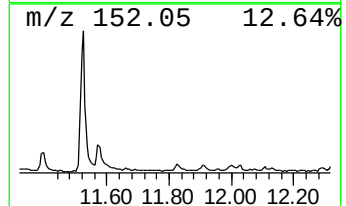
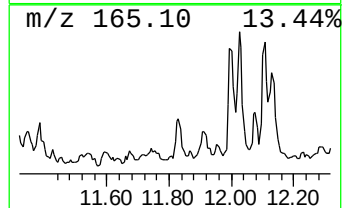
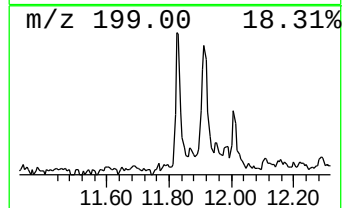
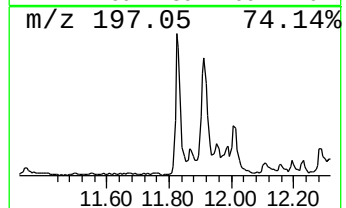
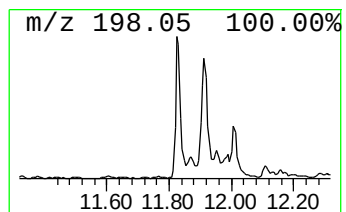
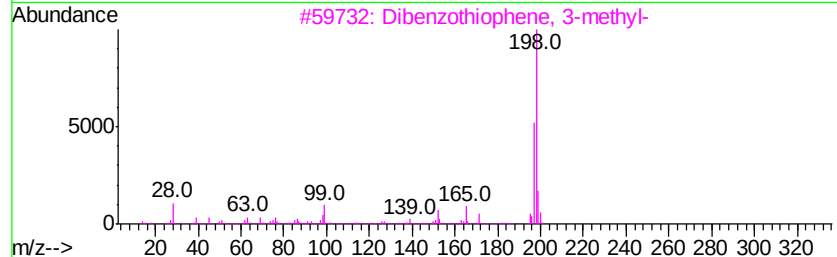
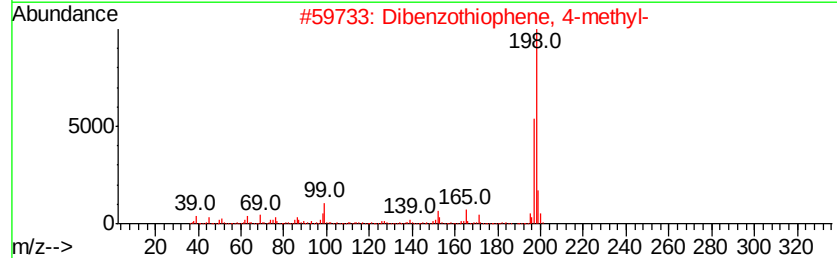
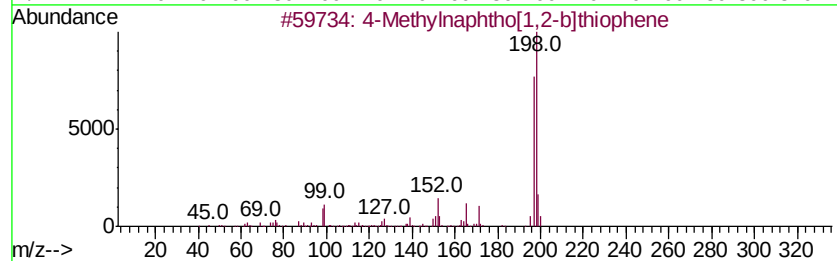
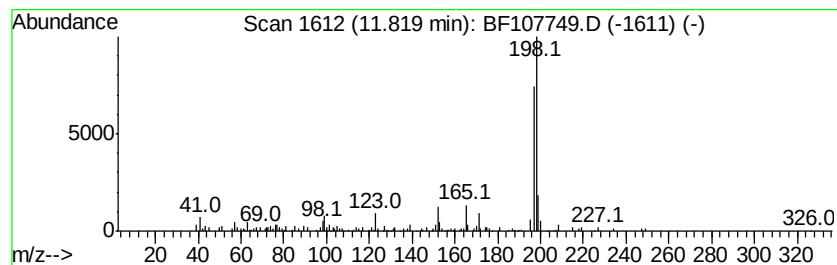
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 4-Methylnaphtho[1,2-b]thiop... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.82	5.45 ng	258802	Phenanthrene-d10	11.49

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	95
2			Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	93
3			Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	91
4			1-Methyldibenzothiophene	198	C13H10S	031317-07-4	90
5			Benzene, 1,1'-(1-fluoro-1,2-ethe...	198	C14H11F	000671-19-2	72



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107749.D
Acq On : 27 Jul 2018 16:46
Operator : JU/SJ
Sample : J4143-05 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

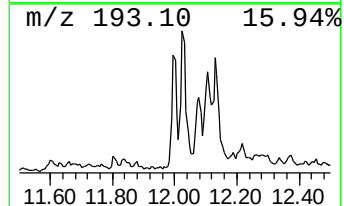
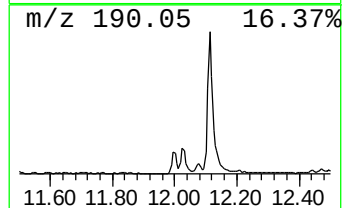
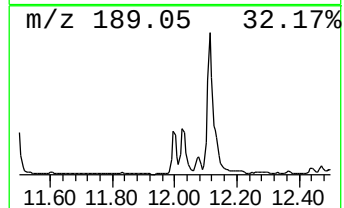
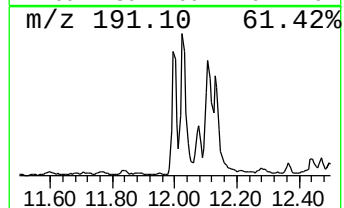
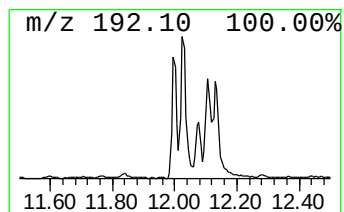
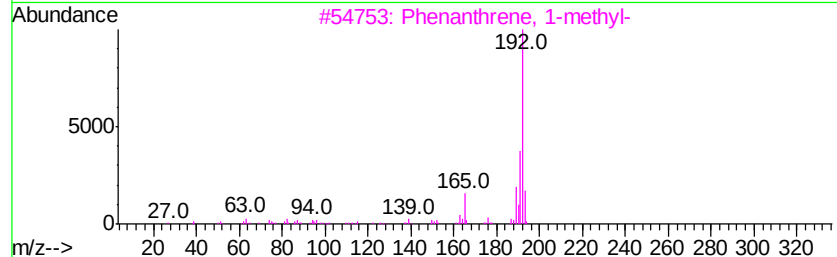
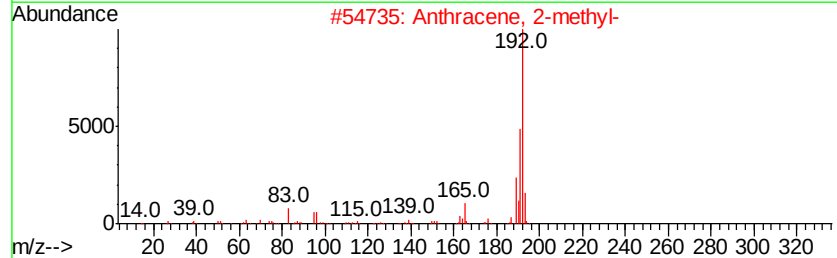
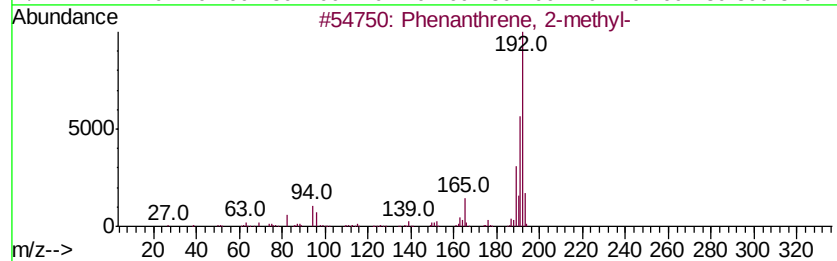
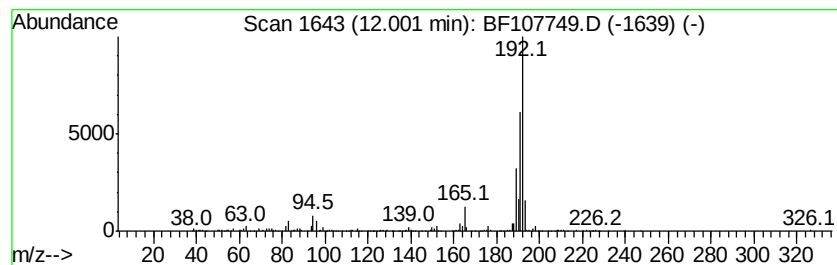
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	12.66 ng	600880	Phenanthrene-d10	11.49

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2		Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4		5H-Dibenzofa,dlcycloheptene	192	C15H12	000256-81-5	93
5		Anthracene, 9-methyl-	192	C15H12	000779-02-2	93



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107749.D
Acq On : 27 Jul 2018 16:46
Operator : JU/SJ
Sample : J4143-05 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

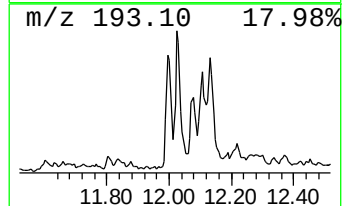
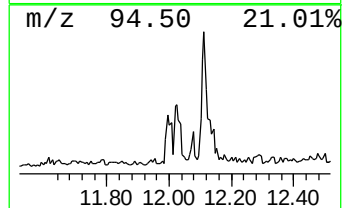
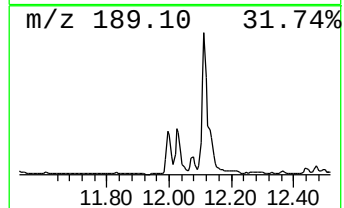
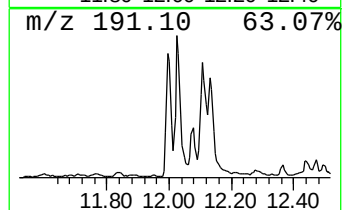
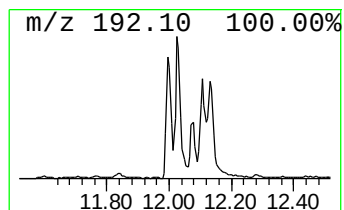
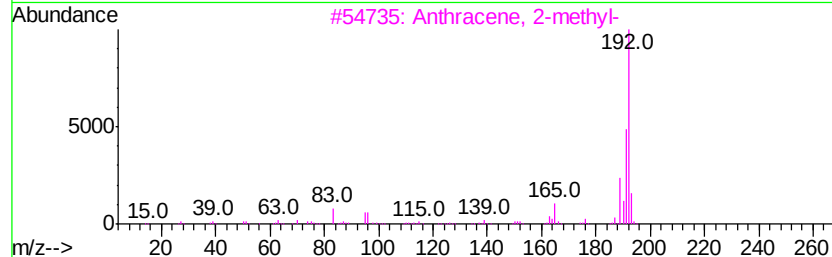
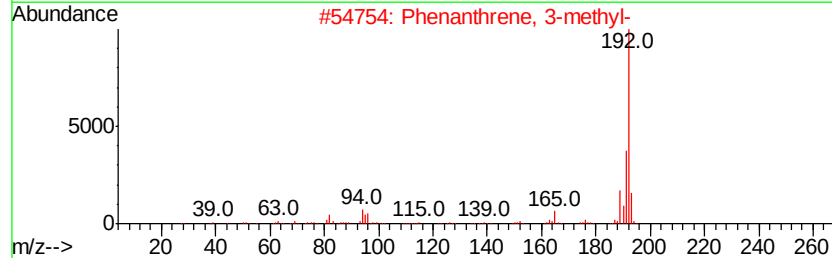
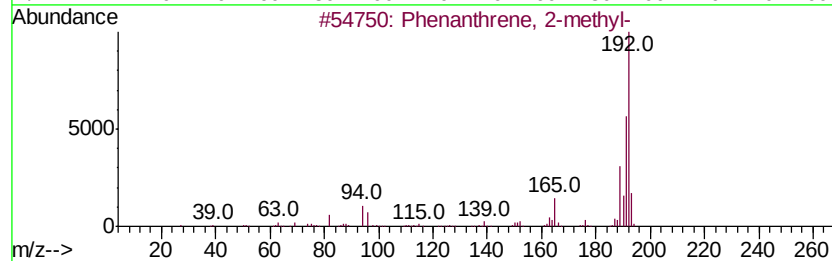
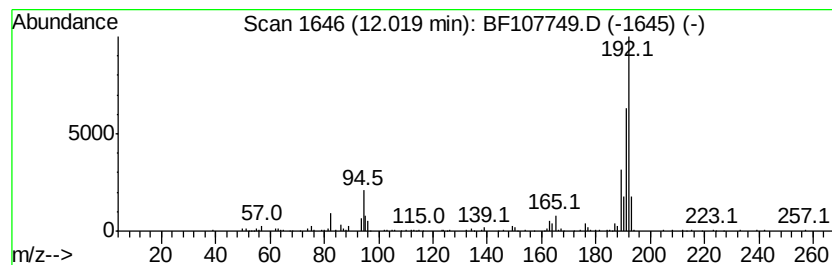
Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Phenanthrene, 3-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.	
12.02	12.58 ng	596866	Phenanthrene-d10	11.49	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	92
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	89



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107749.D
Acq On : 27 Jul 2018 16:46
Operator : JU/SJ
Sample : J4143-05 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

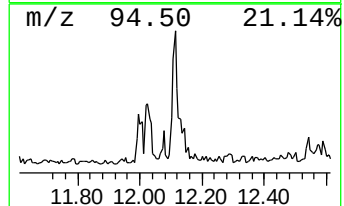
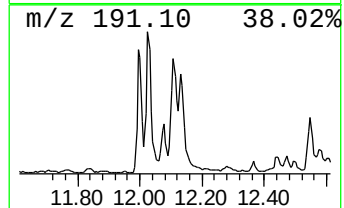
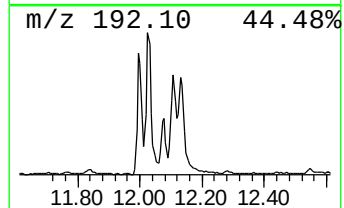
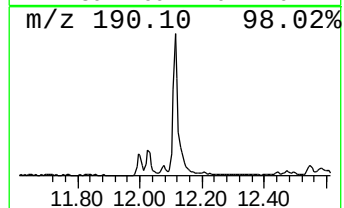
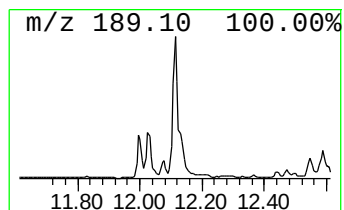
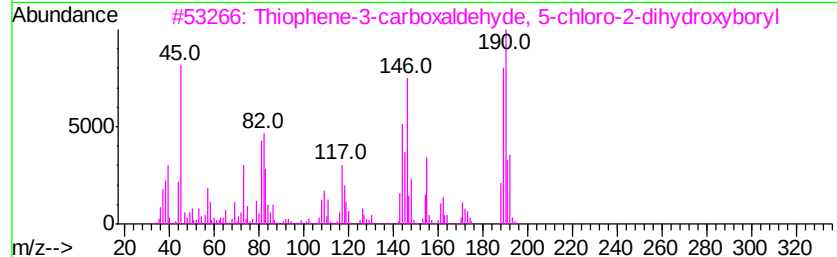
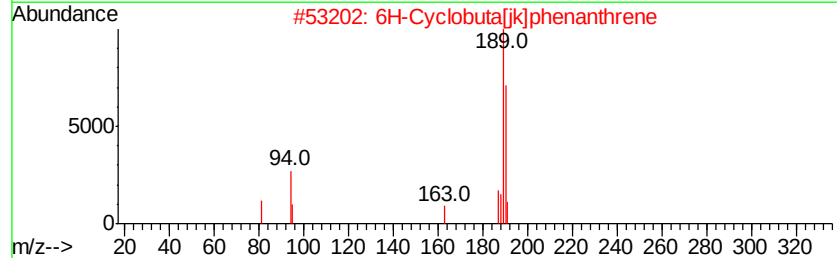
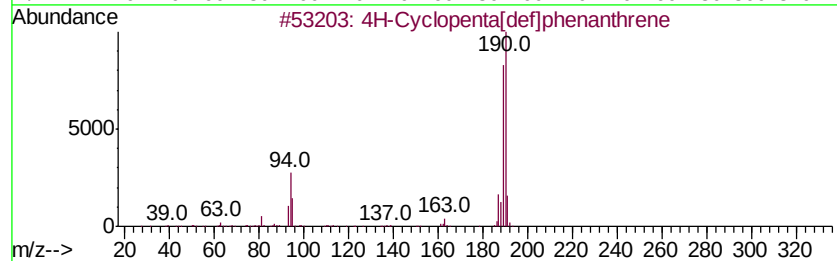
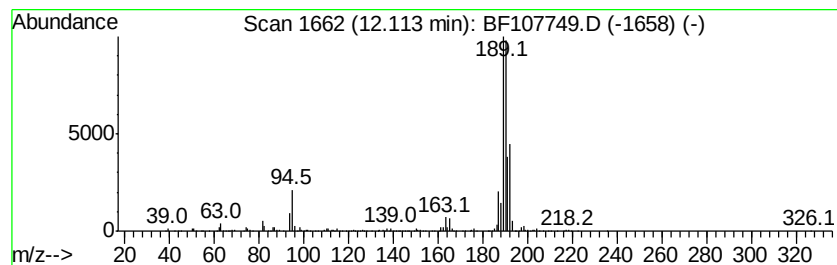
Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.		
12.11	18.23 ng	865123	Phenanthrene-d10	11.49		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2		6H-Cyclobuta[ik]phenanthrene	190	C15H10	083469-43-6	59
3		Thiophene-3-carboxaldehyde, 5-chloro-2-dihydroxyboryl	190	C5H4BClO3S	036155-87-0	50
4		2,3,5,6-Tetramethylterephthalaldehyde	190	C12H14O2	007072-01-7	47
5		2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	42



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107749.D
Acq On : 27 Jul 2018 16:46
Operator : JU/SJ
Sample : J4143-05 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

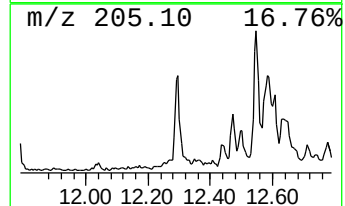
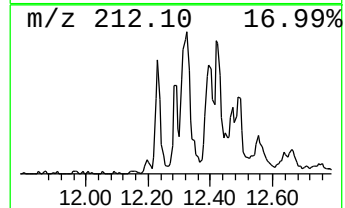
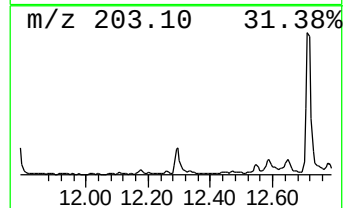
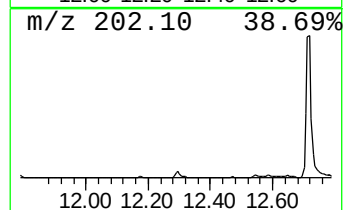
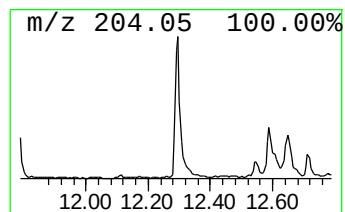
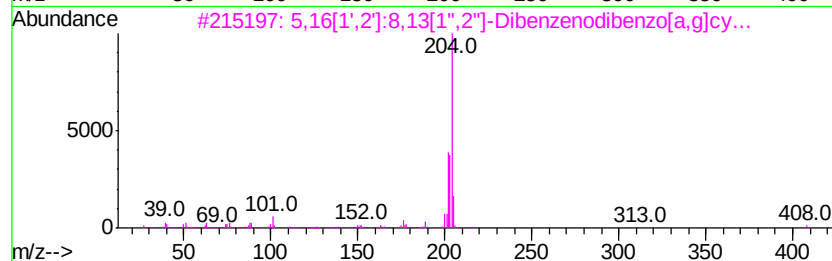
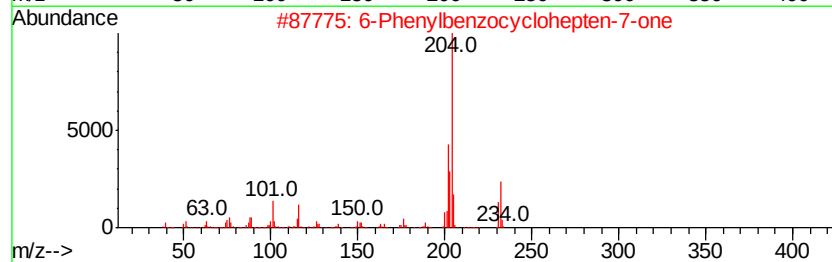
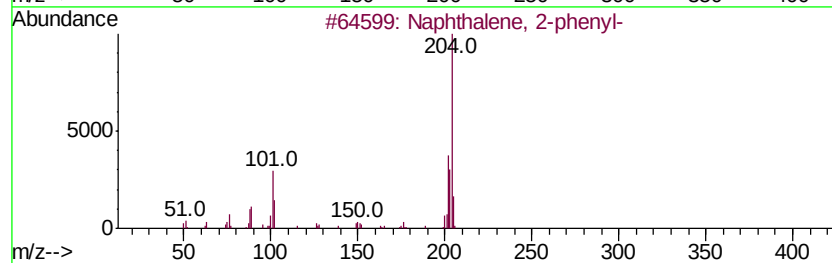
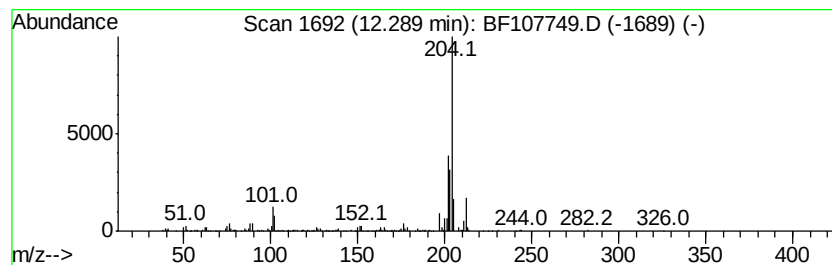
Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Naphthalene, 2-phenyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD		R.T.	
12.29	6.96 ng	330075	Phenanthrene-d10		11.49	
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2		6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	86
3		5,16[1',2'1:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	83
4		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	62
5		9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	62



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107749.D
Acq On : 27 Jul 2018 16:46
Operator : JU/SJ
Sample : J4143-05 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

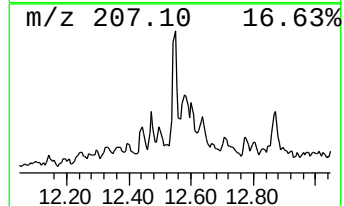
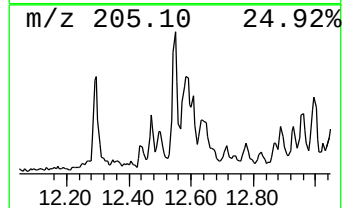
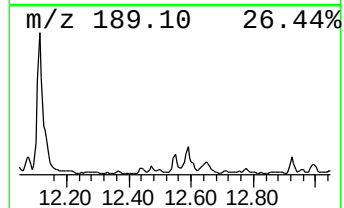
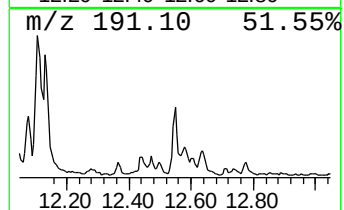
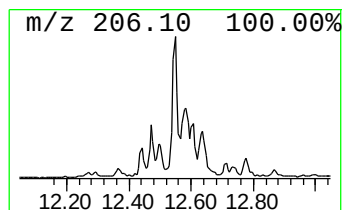
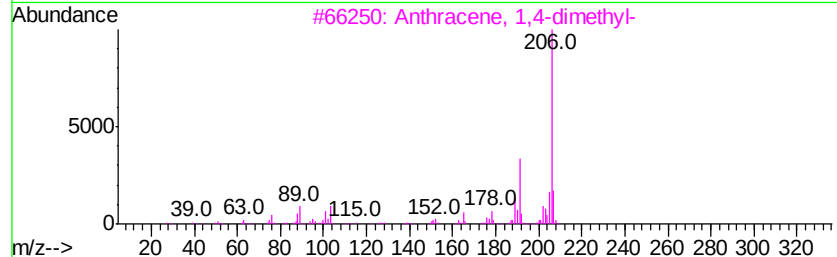
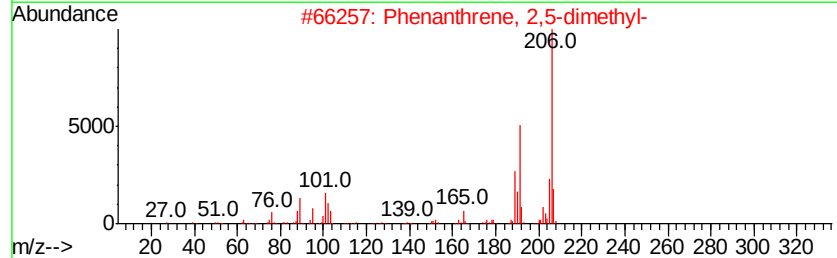
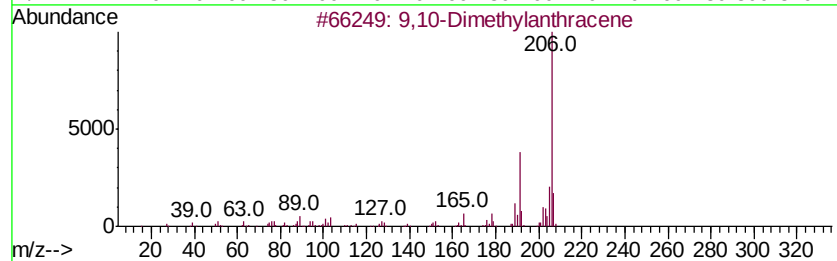
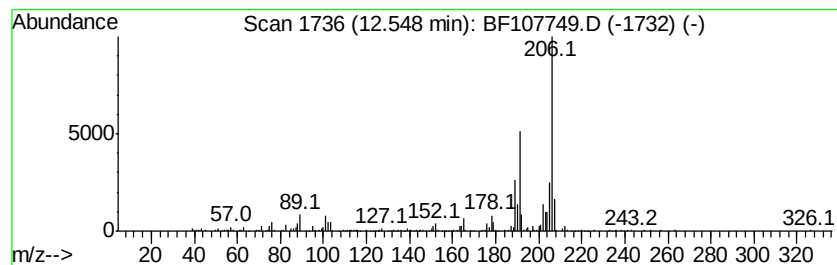
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 9,10-Dimethylantracene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.55	9.04 ng	429047	Phenanthrene-d10	11.49

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,10-Dimethylantracene	206	C16H14	000781-43-1	93
2		Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	91
3		Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	91
4		1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	90
5		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107749.D
Acq On : 27 Jul 2018 16:46
Operator : JU/SJ
Sample : J4143-05 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

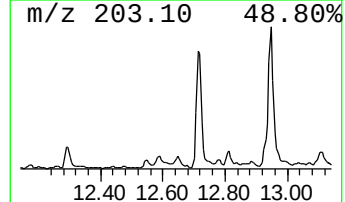
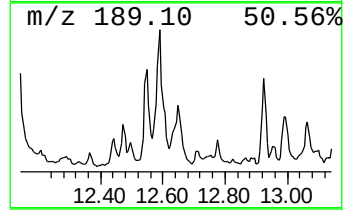
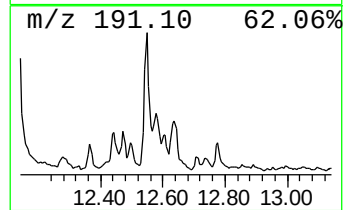
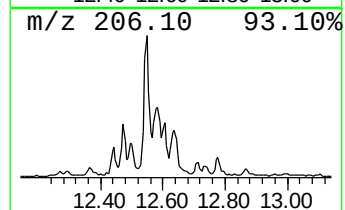
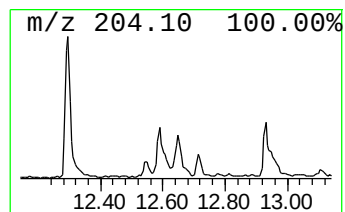
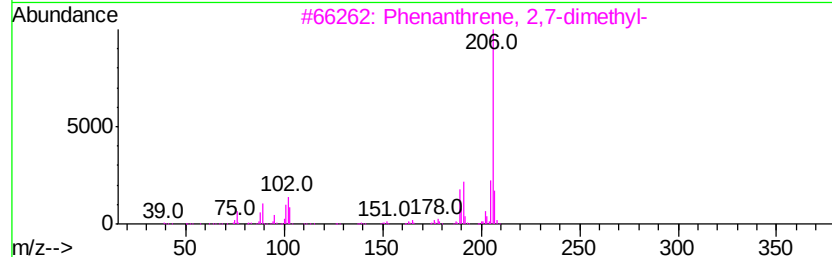
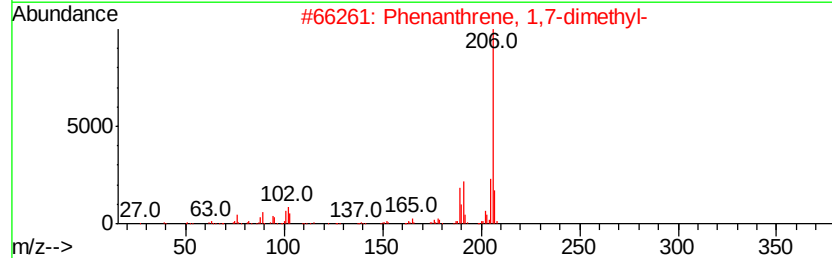
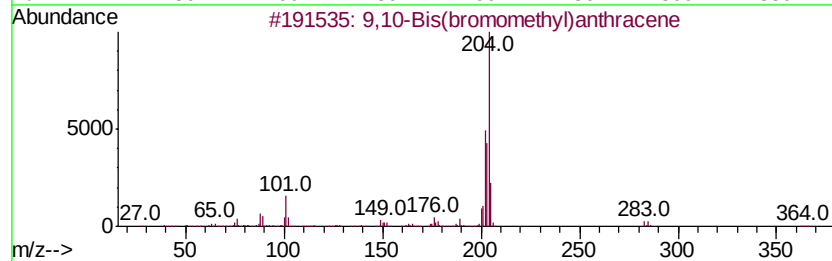
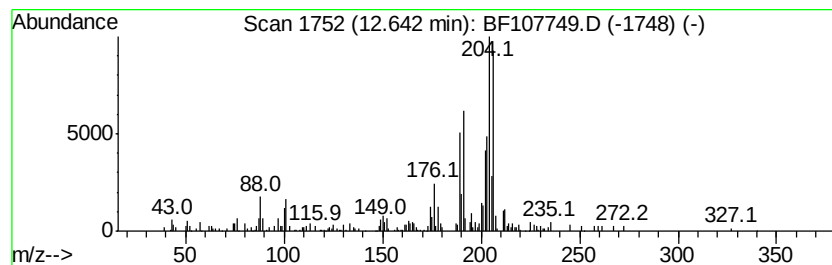
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 9,10-Bis(bromomethyl)anthra... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.64	6.67 ng	316644	Phenanthrene-d10	11.49

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	43
2		Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	38
3		Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	38
4		Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	38
5		5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	38



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
Data File : BF107749.D
Acq On : 27 Jul 2018 16:46
Operator : JU/SJ
Sample : J4143-05 5X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
GW-01(3-5)

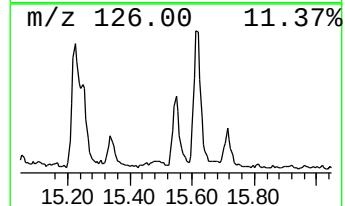
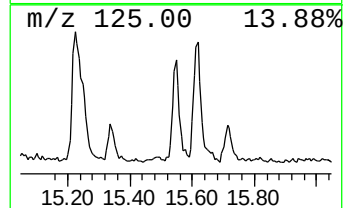
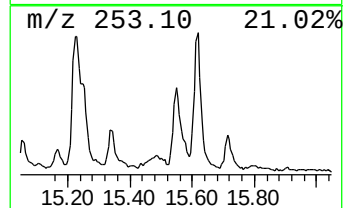
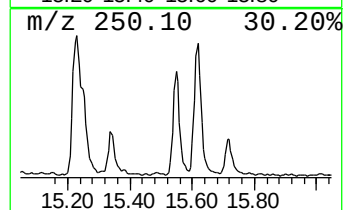
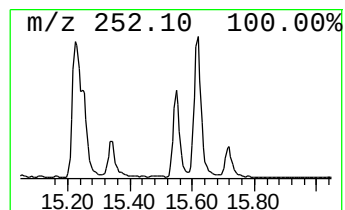
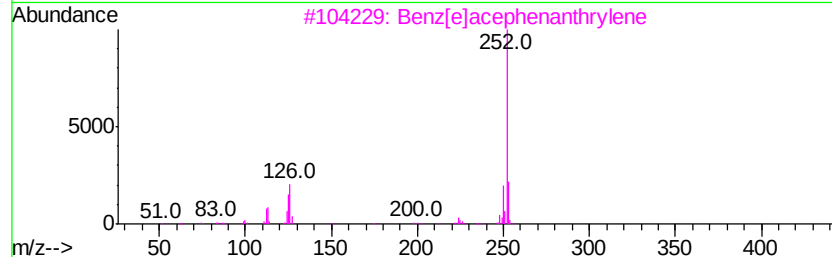
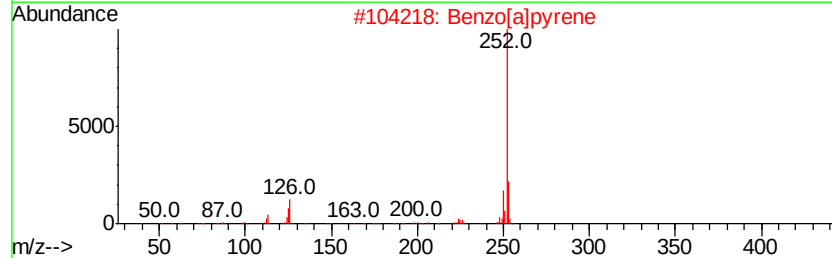
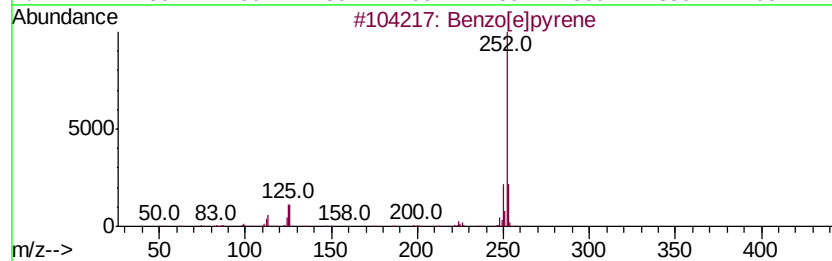
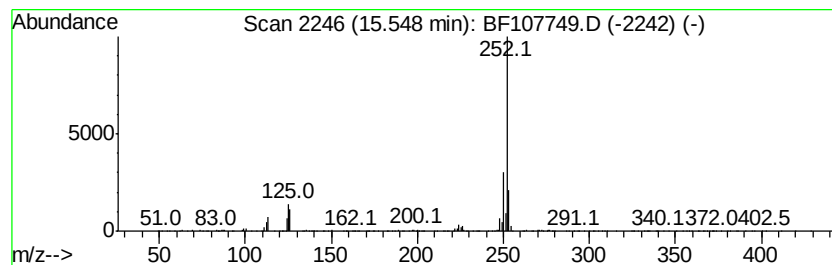
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.55	19.47 ng	552057	Perylene-d12	15.68

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2		Benzo[a]pyrene	252	C20H12	000050-32-8	98
3		Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	96
4		Benzo[k]fluoranthene	252	C20H12	000207-08-9	90
5		Benzo[j]fluoranthene	252	C20H12	000205-82-3	90



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072718\
 Data File : BF107749.D
 Acq On : 27 Jul 2018 16:46
 Operator : JU/SJ
 Sample : J4143-05 5X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GW-01(3-5)

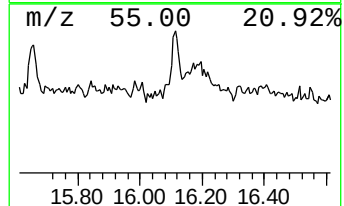
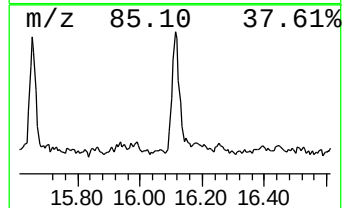
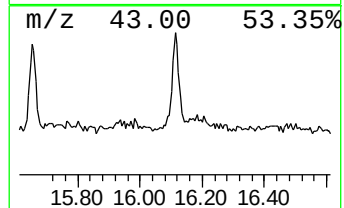
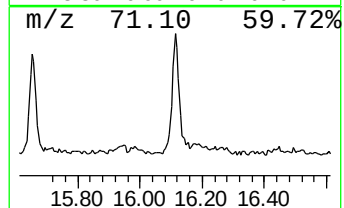
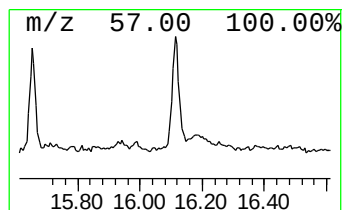
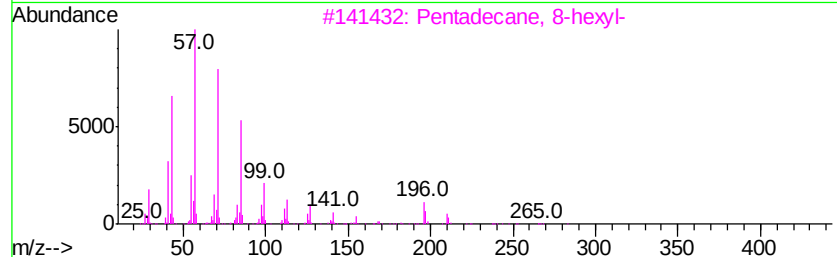
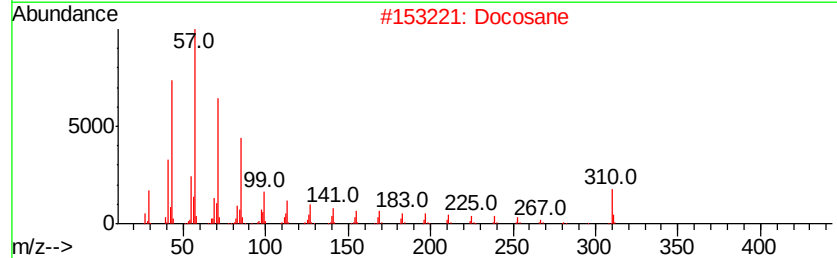
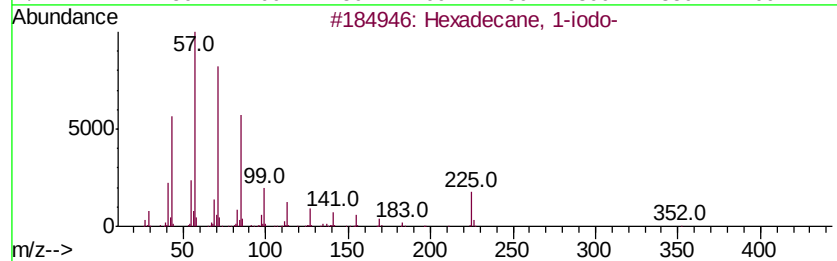
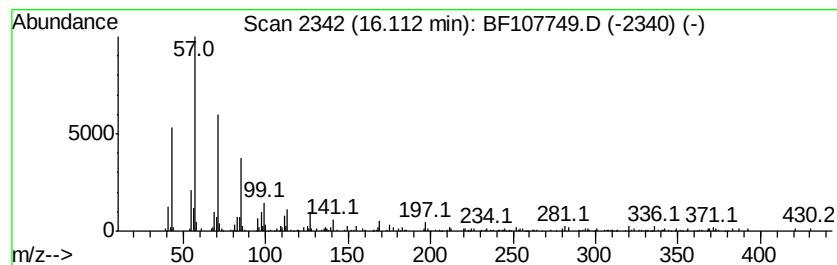
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF072018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

 Peak Number 20 Hexadecane, 1-iodo- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.11	5.22 ng	147955	Perylene-d12	15.68

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexadecane, 1-iodo-	352	C16H33I	000544-77-4	91
2			Docosane	310	C22H46	000629-97-0	90
3			Pentadecane, 8-hexyl-	296	C21H44	013475-75-7	87
4			Hexacosane	366	C26H54	000630-01-3	87
5			Behenyl chloride	344	C22H45Cl	042217-03-8	87



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072718\
 Data File : BF107749.D
 Acq On : 27 Jul 2018 16:46
 Operator : JU/SJ
 Sample : J4143-05 5X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GW-01(3-5)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.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
2-Pentanone, 4-hy...	5.18	6.4	ng	266601	1	6.96	828979	20.0
unknown6.74	6.74	17.2	ng	714215	1	6.96	828979	20.0
Naphthalene, 1-me...	9.05	14.4	ng	654966	2	8.24	906610	20.0
Naphthalene, 2,6-...	9.58	6.0	ng	347667	3	10.00	1152780	20.0
Naphthalene, 1,6-...	9.65	9.4	ng	539778	3	10.00	1152780	20.0
Naphthalene, 1,5-...	9.68	7.4	ng	426506	3	10.00	1152780	20.0
Naphthalene, 1,4-...	9.77	5.5	ng	314322	3	10.00	1152780	20.0
9H-Fluorene, 3-me...	11.10	6.2	ng	295431	4	11.49	948959	20.0
Dibenzothiophene	11.40	11.2	ng	533252	4	11.49	948959	20.0
4-Methylnaphtho[1...	11.82	5.5	ng	258802	4	11.49	948959	20.0
Phenanthrene, 2-m...	12.00	12.7	ng	600880	4	11.49	948959	20.0
Phenanthrene, 3-m...	12.02	12.6	ng	596866	4	11.49	948959	20.0
4H-Cyclopenta[def...	12.11	18.2	ng	865123	4	11.49	948959	20.0
Naphthalene, 2-ph...	12.29	7.0	ng	330075	4	11.49	948959	20.0
9,10-Dimethylanthe...	12.55	9.0	ng	429047	4	11.49	948959	20.0
9,10-Bis(bromomet...	12.64	6.7	ng	316644	4	11.49	948959	20.0
Benzo[e]pyrene	15.55	19.5	ng	552057	6	15.68	567094	20.0
Hexadecane, 1-iodo-	16.11	5.2	ng	147955	6	15.68	567094	20.0