

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102319\
 Data File : BF117505.D
 Acq On : 24 Oct 2019 1:10
 Operator : JU
 Sample : K5497-07
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 168-74-(0-1)

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-BF101819.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	5.351	552	555	576	rBV	807074	878583	38.72%	3.065%
2	6.381	726	730	743	rBV	1011475	983905	43.36%	3.432%
3	6.504	748	751	768	rVB	1127444	1027024	45.26%	3.582%
4	6.734	786	790	800	rBV	265814	263221	11.60%	0.918%
5	6.887	812	816	833	rBV	787303	678551	29.90%	2.367%
6	7.298	882	886	905	rBV	564665	587625	25.89%	2.050%
7	8.010	1004	1007	1020	rBV	363601	351500	15.49%	1.226%
8	9.086	1186	1190	1202	rBV	1052167	905372	39.90%	3.158%
9	9.481	1254	1257	1265	rVB	108698	88988	3.92%	0.310%
10	9.622	1279	1281	1291	rBV	78180	75745	3.34%	0.264%
11	9.763	1301	1305	1308	rBV	491799	408063	17.98%	1.423%
12	9.792	1308	1310	1319	rVB	51911	50454	2.22%	0.176%
13	10.310	1395	1398	1404	rVB2	77352	79162	3.49%	0.276%
14	10.469	1419	1425	1429	rVB3	43141	45559	2.01%	0.159%
15	10.551	1436	1439	1446	rBV	594679	603448	26.59%	2.105%
16	10.675	1455	1460	1466	rVB5	30382	50200	2.21%	0.175%
17	10.863	1484	1492	1494	rBV2	61768	77990	3.44%	0.272%
18	10.986	1508	1513	1515	rVV3	59880	71161	3.14%	0.248%
19	11.010	1515	1517	1523	rVV	61276	74867	3.30%	0.261%
20	11.098	1529	1532	1538	rVV3	72691	112020	4.94%	0.391%
21	11.145	1538	1540	1546	rVB	58263	63098	2.78%	0.220%
22	11.251	1554	1558	1559	rBV	400901	368139	16.22%	1.284%
23	11.275	1559	1562	1565	rVV	1277915	1108784	48.86%	3.868%
24	11.328	1567	1571	1574	rVV	356570	339681	14.97%	1.185%
25	11.357	1574	1576	1582	rVB4	33323	56205	2.48%	0.196%
26	11.498	1594	1600	1605	rBV5	52283	109164	4.81%	0.381%
27	11.539	1605	1607	1610	rVB	69843	50080	2.21%	0.175%
28	11.751	1639	1643	1645	rBV	242922	208734	9.20%	0.728%
29	11.780	1645	1648	1652	rVV	417867	355895	15.68%	1.241%
30	11.827	1652	1656	1659	rVV	180092	163268	7.19%	0.570%
31	11.863	1659	1662	1664	rVV	417797	417419	18.39%	1.456%
32	11.886	1664	1666	1672	rVB	183614	157942	6.96%	0.551%
33	12.045	1689	1693	1698	rVB	184930	160473	7.07%	0.560%
34	12.192	1713	1718	1722	rBV	70255	73386	3.23%	0.256%

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF102319\
 Data File : BF117505.D
 Acq On : 24 Oct 2019 1:10
 Operator : JU
 Sample : K5497-07
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 168-74-(0-1)

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-BF101819.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.227	1722	1724	1726	rVV	83164	62998	2.78%	0.220%
36	12.251	1726	1728	1732	rVB	53614	47502	2.09%	0.166%
37	12.298	1732	1736	1739	rBV	174989	185759	8.19%	0.648%
38	12.339	1739	1743	1745	rVV2	126544	159798	7.04%	0.557%
39	12.363	1745	1747	1749	rVV2	60370	53809	2.37%	0.188%
40	12.398	1749	1753	1757	rVV2	105177	141534	6.24%	0.494%
41	12.475	1760	1766	1769	rBV	2282343	2245652	98.96%	7.833%
42	12.533	1773	1776	1778	rVB2	57605	55595	2.45%	0.194%
43	12.563	1778	1781	1784	rBV	58986	55017	2.42%	0.192%
44	12.616	1787	1790	1793	rVV2	99572	96455	4.25%	0.336%
45	12.704	1798	1805	1809	rBV2	1734979	2269281	100.00%	7.916%
46	12.745	1809	1812	1817	rVB2	116034	141319	6.23%	0.493%
47	12.827	1817	1826	1829	rBV2	706299	812462	35.80%	2.834%
48	12.857	1829	1831	1836	rVB2	66697	74426	3.28%	0.260%
49	12.916	1836	1841	1845	rBV3	148243	267156	11.77%	0.932%
50	12.998	1852	1855	1856	rBV2	110055	110777	4.88%	0.386%
51	13.022	1856	1859	1862	rVB	335041	330861	14.58%	1.154%
52	13.086	1867	1870	1873	rVV	268592	230060	10.14%	0.802%
53	13.127	1873	1877	1884	rVB2	208512	284461	12.54%	0.992%
54	13.180	1884	1886	1889	rVB3	48902	46485	2.05%	0.162%
55	13.216	1889	1892	1895	rBV	95033	89639	3.95%	0.313%
56	13.251	1895	1898	1901	rBV3	105752	121915	5.37%	0.425%
57	13.398	1920	1923	1925	rBV2	55332	54393	2.40%	0.190%
58	13.445	1929	1931	1934	rVB	51913	38147	1.68%	0.133%
59	13.504	1937	1941	1944	rBV3	59392	78794	3.47%	0.275%
60	13.539	1944	1947	1950	rVB	110951	95496	4.21%	0.333%
61	13.645	1960	1965	1966	rBV	157198	170021	7.49%	0.593%
62	13.663	1966	1968	1971	rVB	153254	133006	5.86%	0.464%
63	13.692	1971	1973	1975	rBV	114240	105889	4.67%	0.369%
64	13.751	1980	1983	1988	rVB	135010	154729	6.82%	0.540%
65	13.810	1988	1993	1999	rVB	49635	72772	3.21%	0.254%
66	13.886	1999	2006	2010	rBV2	1086356	1609748	70.94%	5.615%
67	13.921	2010	2012	2019	rVV	909199	869589	38.32%	3.033%
68	13.998	2023	2025	2029	rVB	162696	135357	5.96%	0.472%
69	14.045	2029	2033	2039	rBV6	67572	136012	5.99%	0.474%
70	14.121	2042	2046	2050	rVB3	61866	99977	4.41%	0.349%
71	14.245	2064	2067	2069	rVV2	58680	66701	2.94%	0.233%

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF102319\
 Data File : BF117505.D
 Acq On : 24 Oct 2019 1:10
 Operator : JU
 Sample : K5497-07
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 168-74-(0-1)

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-BF101819.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.280	2069	2073	2076	rVV	234245	269294	11.87%	0.939%
73	14.316	2076	2079	2081	rVV2	102170	106988	4.71%	0.373%
74	14.351	2082	2085	2088	rVV2	113042	139217	6.13%	0.486%
75	14.380	2088	2090	2092	rVV	89023	85049	3.75%	0.297%
76	14.404	2092	2094	2096	rVV	107985	110604	4.87%	0.386%
77	14.427	2096	2098	2101	rVV2	102834	98862	4.36%	0.345%
78	14.474	2104	2106	2109	rVV2	58639	51444	2.27%	0.179%
79	14.604	2124	2128	2133	rBV5	69485	125195	5.52%	0.437%
80	14.645	2133	2135	2140	rVV3	66536	79718	3.51%	0.278%
81	14.768	2153	2156	2159	rBV2	98897	101247	4.46%	0.353%
82	14.921	2177	2182	2185	rBV	735230	1153546	50.83%	4.024%
83	15.021	2196	2199	2203	rBV	158527	159670	7.04%	0.557%
84	15.116	2210	2215	2218	rBV5	50583	107985	4.76%	0.377%
85	15.151	2218	2221	2226	rVV3	44510	97860	4.31%	0.341%
86	15.210	2226	2231	2237	rVV	409581	523985	23.09%	1.828%
87	15.274	2237	2242	2246	rVV	626992	760638	33.52%	2.653%
88	15.327	2246	2251	2253	rVV2	256357	341896	15.07%	1.193%
89	15.357	2253	2256	2262	rVB2	182935	248883	10.97%	0.868%
90	15.492	2274	2279	2282	rBV	45509	71029	3.13%	0.248%
91	15.539	2282	2287	2295	rVB6	49135	109571	4.83%	0.382%
92	15.721	2314	2318	2321	rBV	54485	79591	3.51%	0.278%
93	16.186	2392	2397	2403	rVB3	50770	87995	3.88%	0.307%
94	16.539	2451	2457	2460	rBV3	29133	49023	2.16%	0.171%
95	16.733	2483	2490	2497	rBV	209264	400843	17.66%	1.398%
96	16.798	2497	2501	2506	rVB2	20057	38195	1.68%	0.133%
97	16.892	2511	2517	2522	rBV3	49274	100867	4.44%	0.352%
98	16.951	2522	2527	2533	rVB2	25783	51171	2.25%	0.178%
99	17.151	2552	2561	2575	rBV	112859	257573	11.35%	0.898%
100	17.398	2594	2603	2613	rVB3	41772	110905	4.89%	0.387%

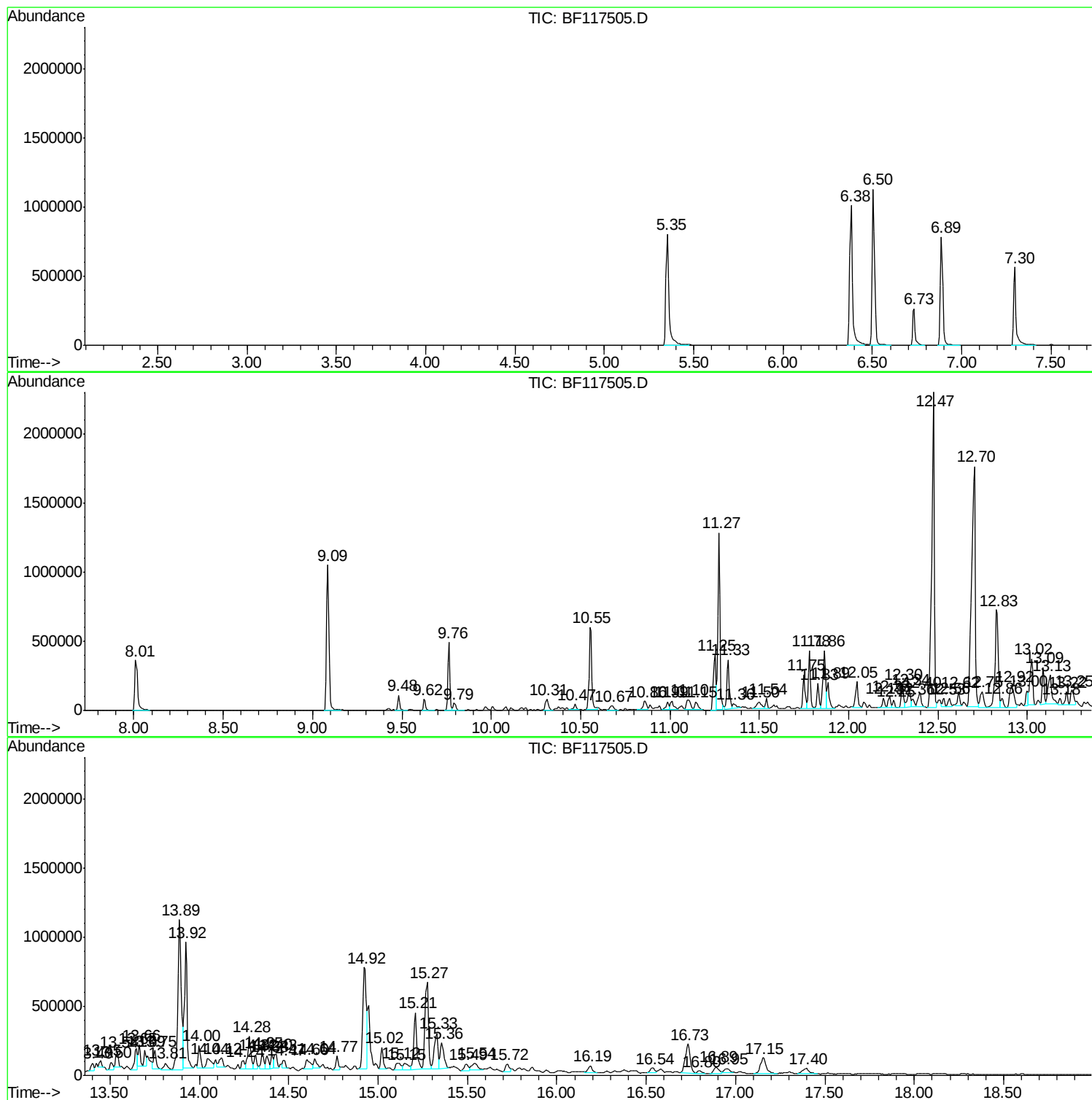
Sum of corrected areas: 28668142

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102319\
Data File : BF117505.D
Acq On : 24 Oct 2019 1:10
Operator : JU
Sample : K5497-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
168-74-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.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\BF102319\
Data File : BF117505.D
Acq On : 24 Oct 2019 1:10
Operator : JU
Sample : K5497-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
168-74-(0-1)

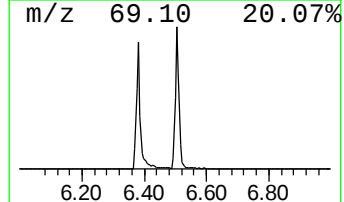
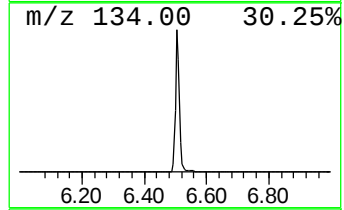
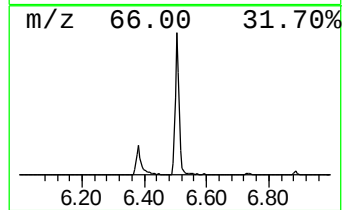
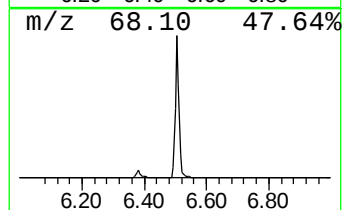
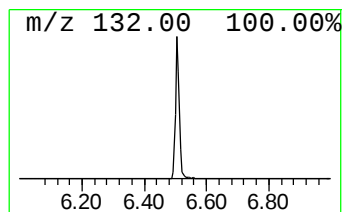
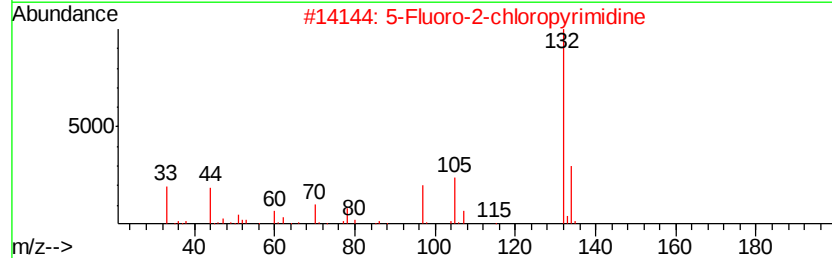
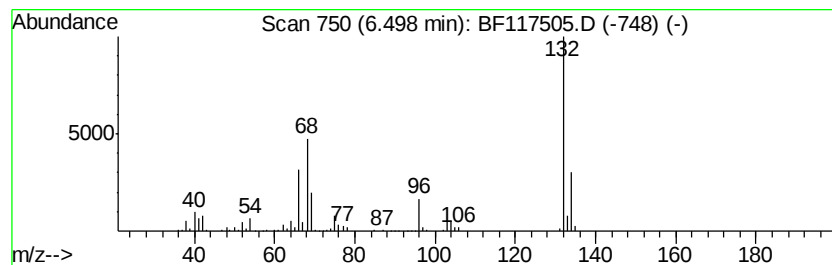
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 unknown6.50 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.50	78.04 ng	1027020	1,4-Dichlorobenzene-d4	6.73

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	25
2		5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12
3		Tranvlcypropine-propionyl	189	C12H15NO	1000123-86-3	10
4		1,2,4-Trifluorobenzene	132	C6H3F3	000367-23-7	9
5		1,3,5-Trifluorobenzene	132	C6H3F3	000372-38-3	9



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102319\
Data File : BF117505.D
Acq On : 24 Oct 2019 1:10
Operator : JU
Sample : K5497-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

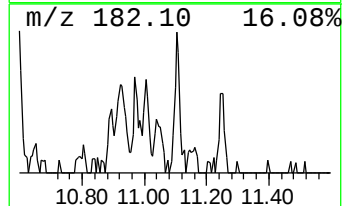
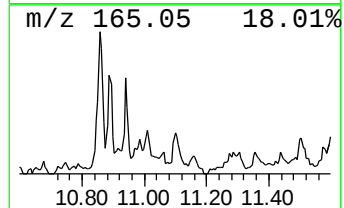
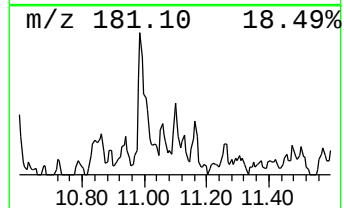
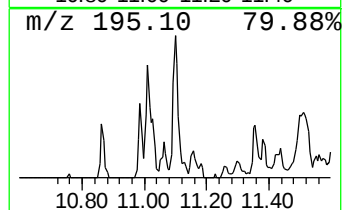
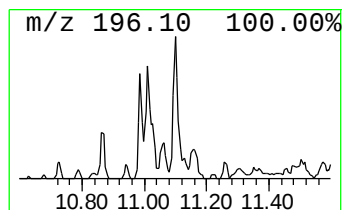
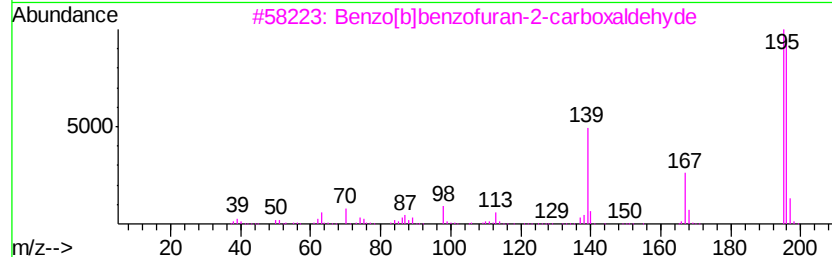
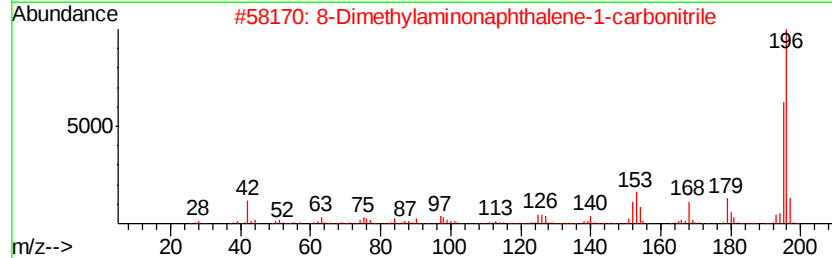
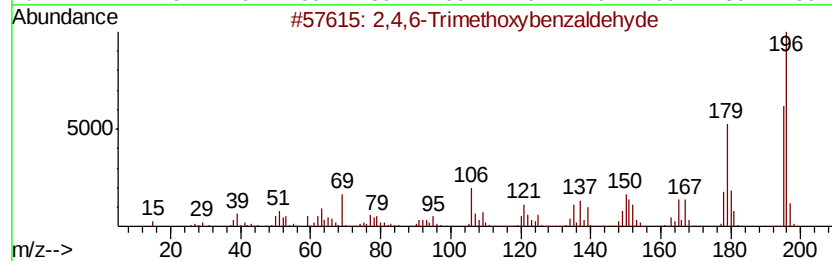
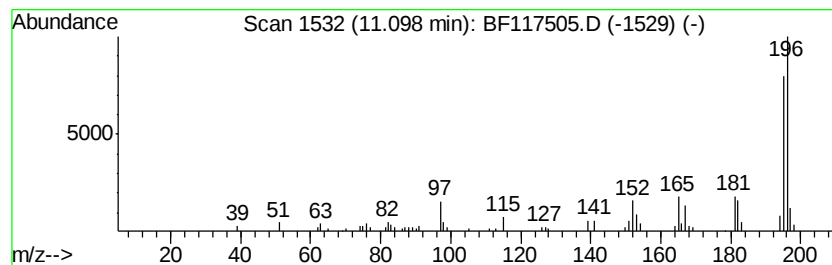
Instrument :
BNA_F
ClientSampleId :
168-74-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 2,4,6-Trimethoxybenzaldehyde Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.10	6.09 ng	112020	Phenanthrene-d10	11.25	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4,6-Trimethoxybenzaldehyde	196	C10H12O4	000830-79-5	86
2	8-Dimethylaminonaphthalene-1-car...	196	C13H12N2	128644-69-9	72
3	Benzo[b]benzofuran-2-carboxaldehyde	196	C13H8O2	1000351-56-0	68
4	Phenol, 4-(2-phenylethenyl)-	196	C14H12O	003839-46-1	52
5	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	50



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102319\
Data File : BF117505.D
Acq On : 24 Oct 2019 1:10
Operator : JU
Sample : K5497-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

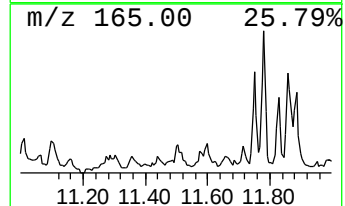
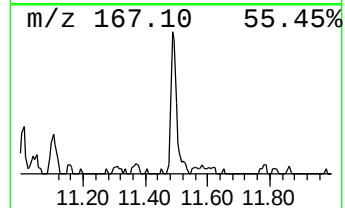
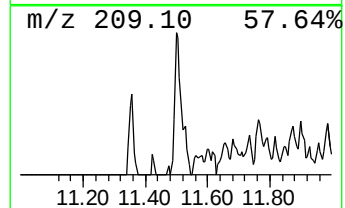
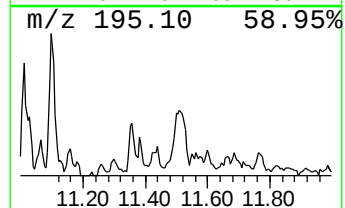
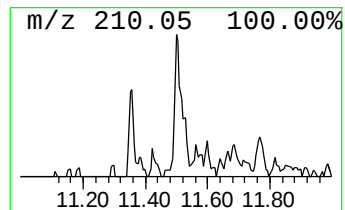
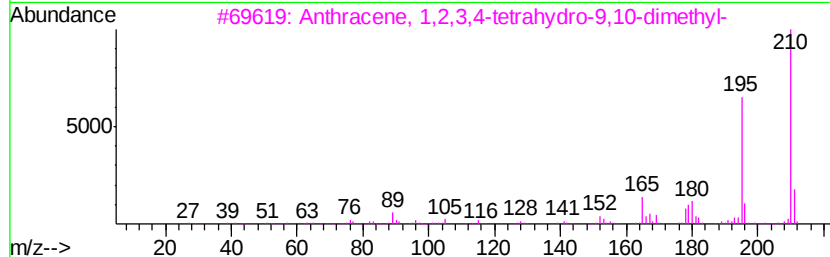
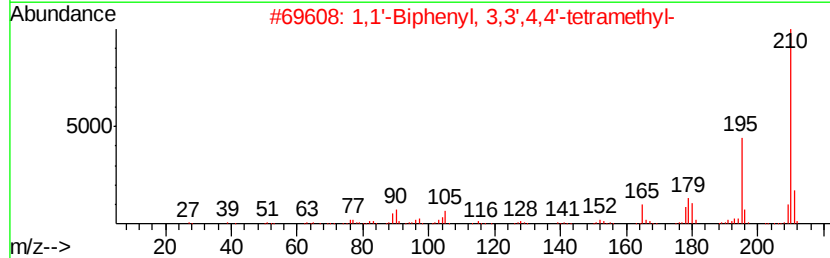
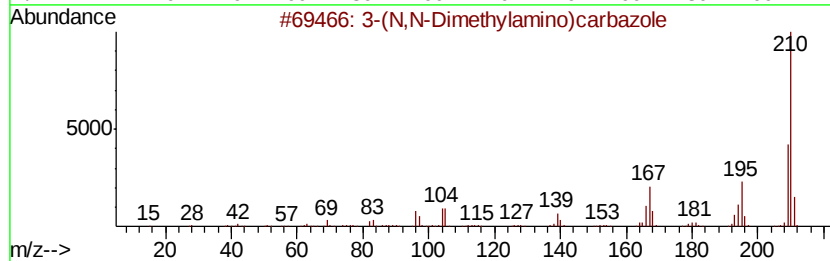
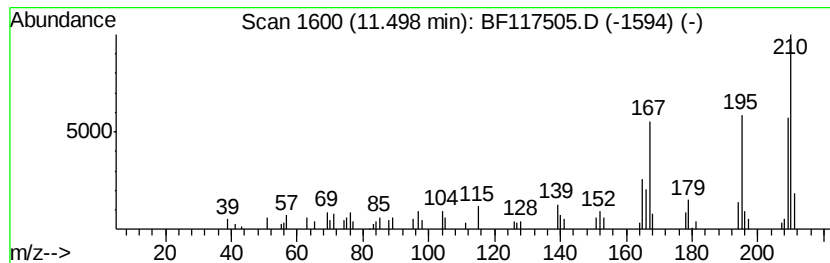
Instrument :
BNA_F
ClientSampleId :
168-74-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 3-(N,N-Dimethylamino)carbazole Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD		R.T.
11.50	5.93 ng	109164	Phenanthrene-d10		11.25
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-(N,N-Dimethylamino)carbazole	210	C14H14N2	001140-50-7	70
2	1,1'-Biphenyl, 3,3',4,4'-tetrame...	210	C16H18	004920-95-0	53
3	Anthracene, 1,2,3,4-tetrahdro-9...	210	C16H18	094573-50-9	53
4	Altretamine	210	C9H18N6	000645-05-6	52
5	7H-Cyclopenta[b]pyridine-3,6-dic...	210	C12H10N4	1000264-64-4	49



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102319\
Data File : BF117505.D
Acq On : 24 Oct 2019 1:10
Operator : JU
Sample : K5497-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

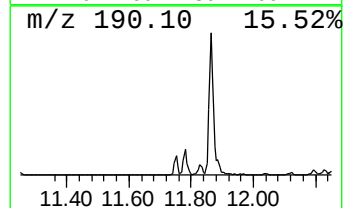
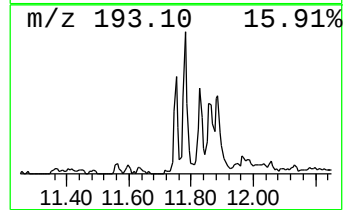
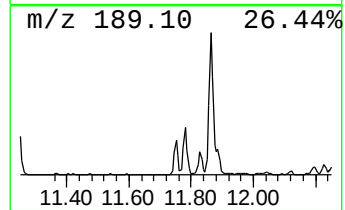
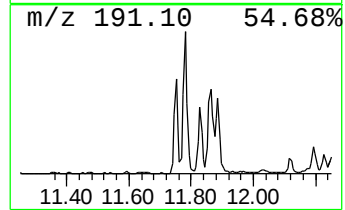
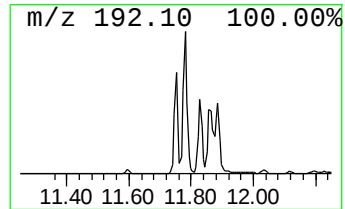
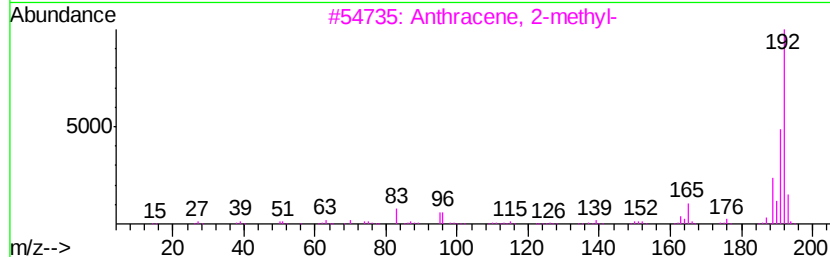
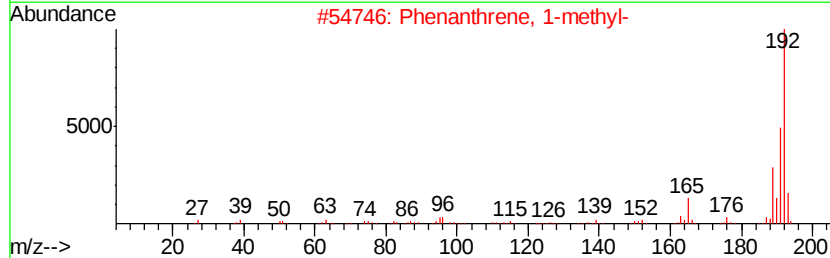
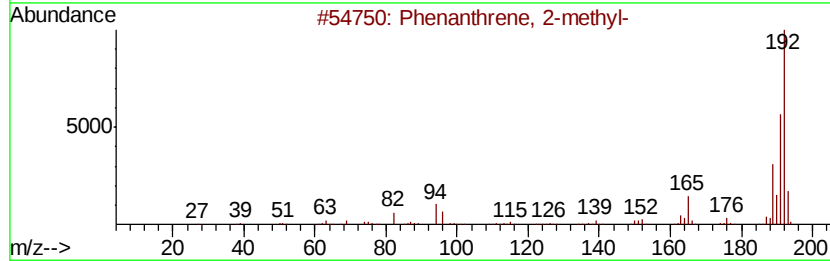
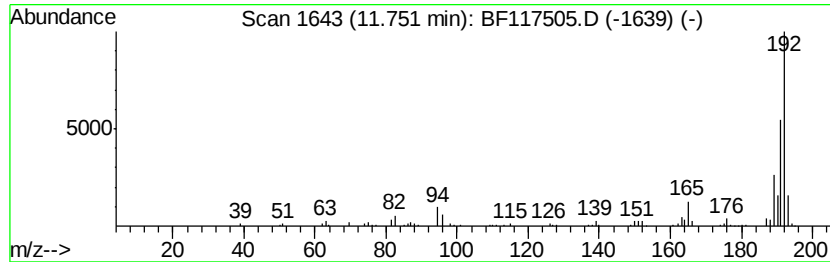
Instrument :
BNA_F
ClientSampleId :
168-74-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.75	11.34 ng	208734	Phenanthrene-d10	11.25	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[1,1]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102319\
Data File : BF117505.D
Acq On : 24 Oct 2019 1:10
Operator : JU
Sample : K5497-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
168-74-(0-1)

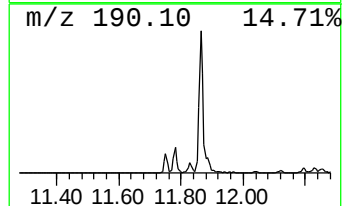
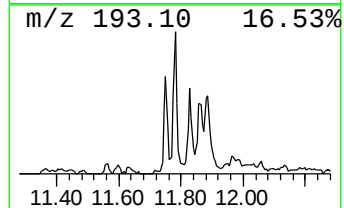
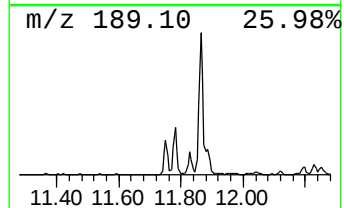
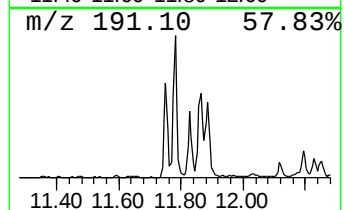
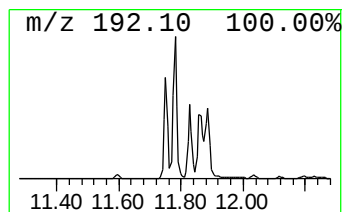
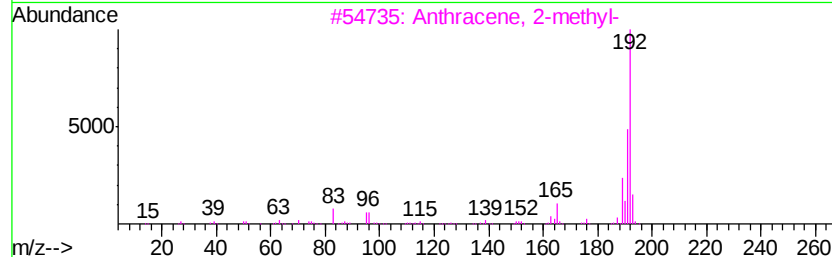
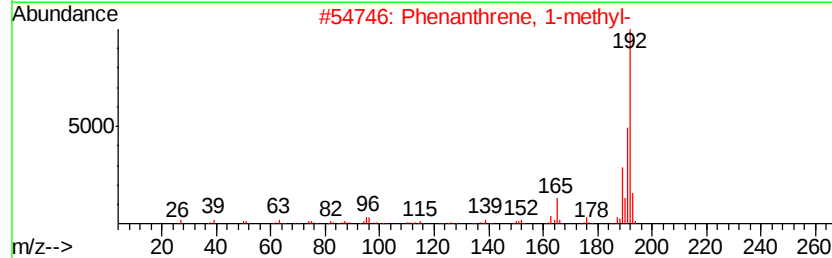
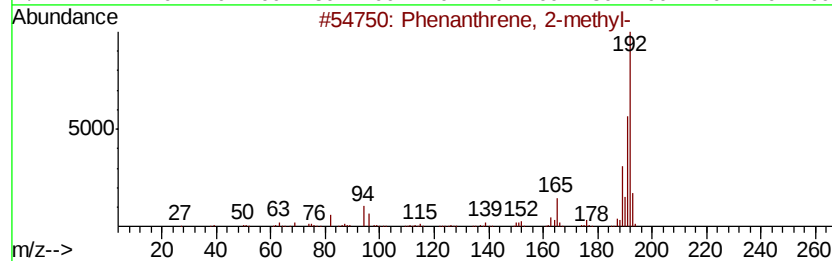
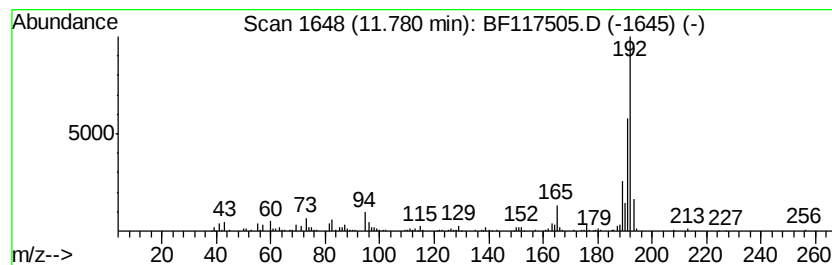
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.78	19.33 ng	355895	Phenanthrene-d10	11.25

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3		Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4		1H-Cyclopropa[1,1]phenanthrene, 1a,...	192	C15H12	000949-41-7	95
5		Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102319\
Data File : BF117505.D
Acq On : 24 Oct 2019 1:10
Operator : JU
Sample : K5497-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
168-74-(0-1)

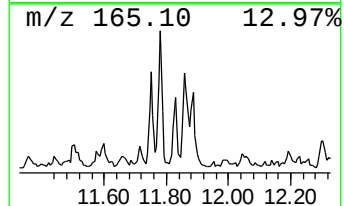
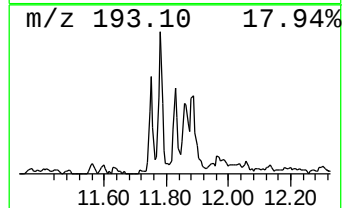
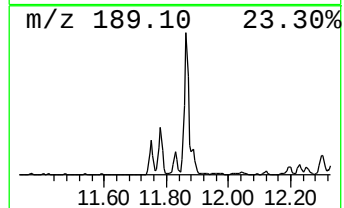
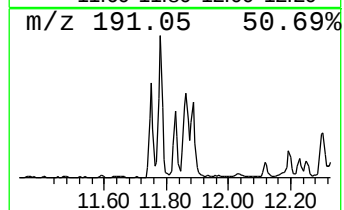
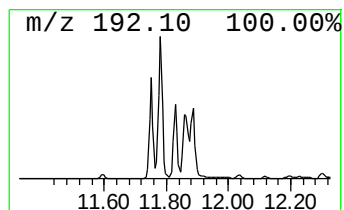
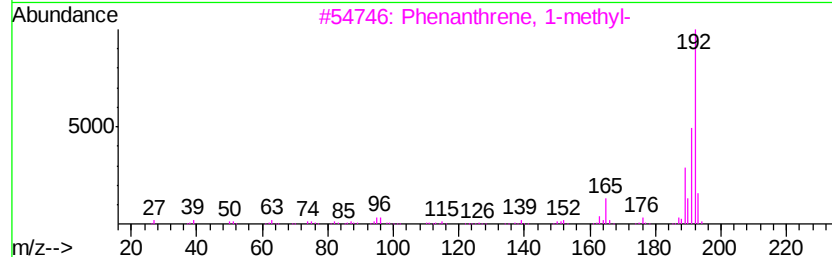
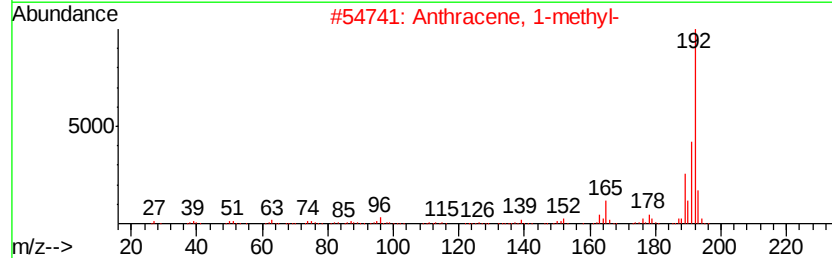
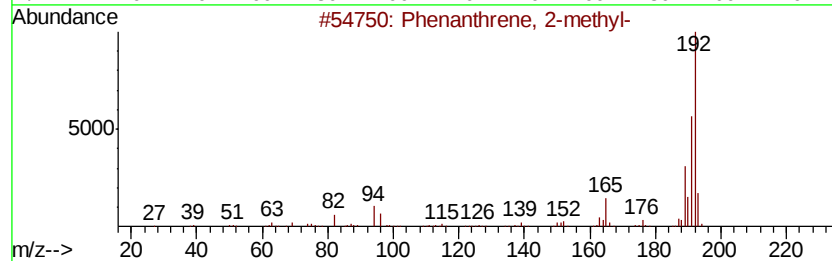
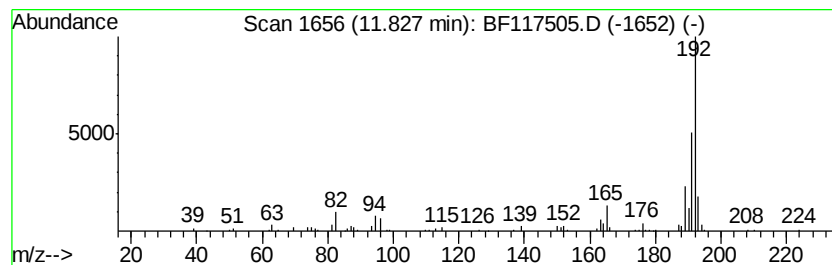
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Anthracene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.83	8.87 ng	163268	Phenanthrene-d10	11.25

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102319\
Data File : BF117505.D
Acq On : 24 Oct 2019 1:10
Operator : JU
Sample : K5497-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

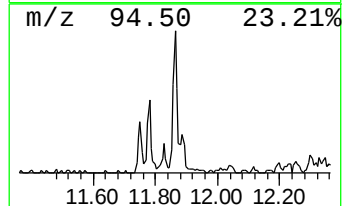
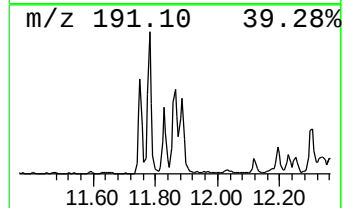
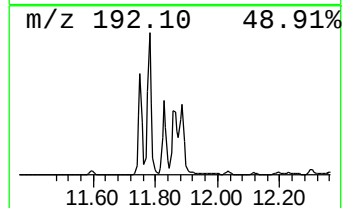
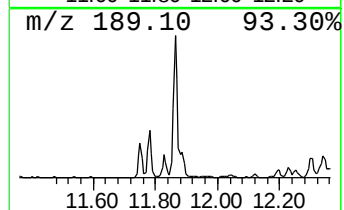
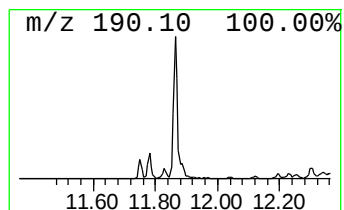
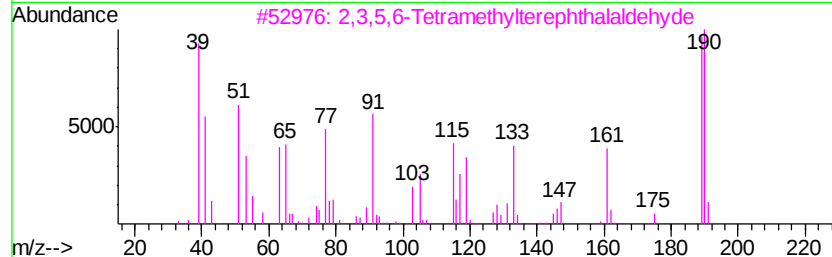
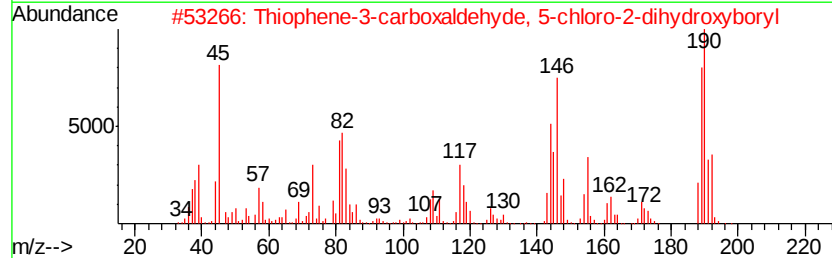
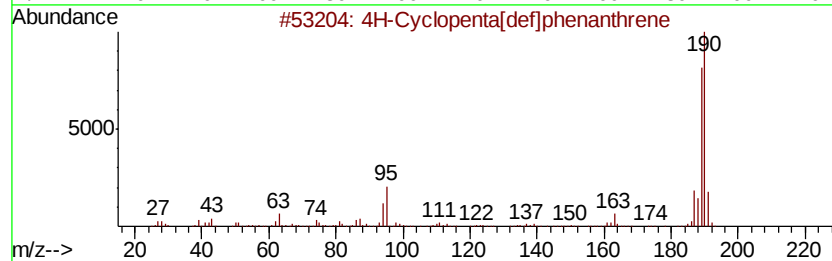
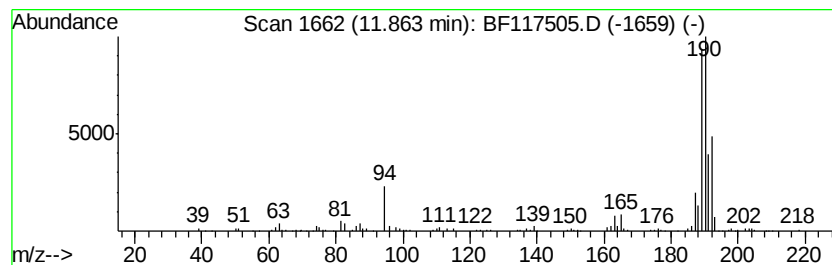
Instrument :
BNA_F
ClientSampleId :
168-74-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.		
11.86	22.68 ng	417419	Phenanthrene-d10	11.25		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
2		Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	53
3		2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	43
4		6H-Cyclobuta[flk]phenanthrene	190	C15H10	083469-43-6	42
5		2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	40



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102319\
Data File : BF117505.D
Acq On : 24 Oct 2019 1:10
Operator : JU
Sample : K5497-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

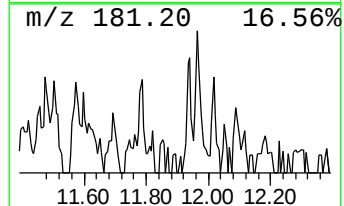
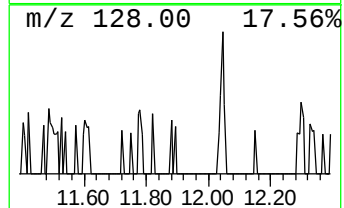
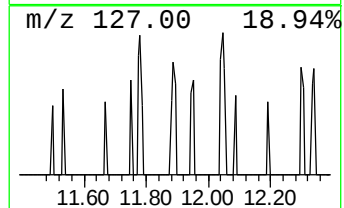
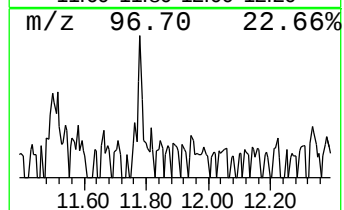
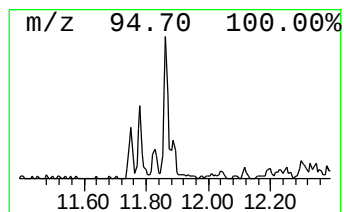
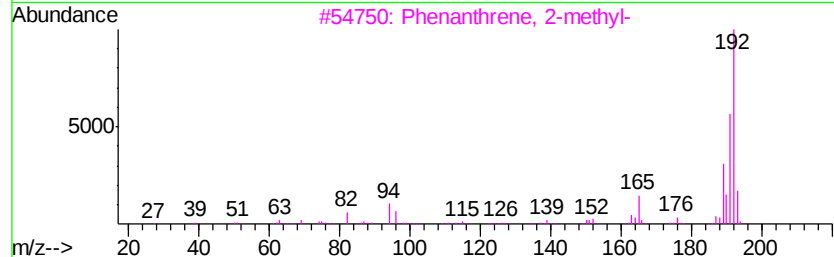
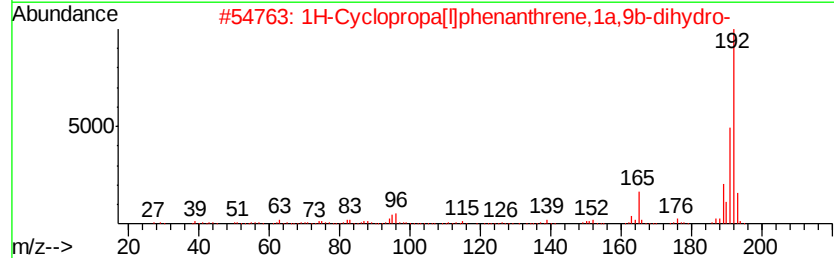
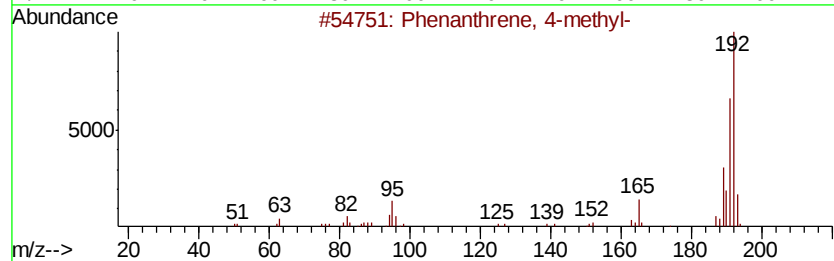
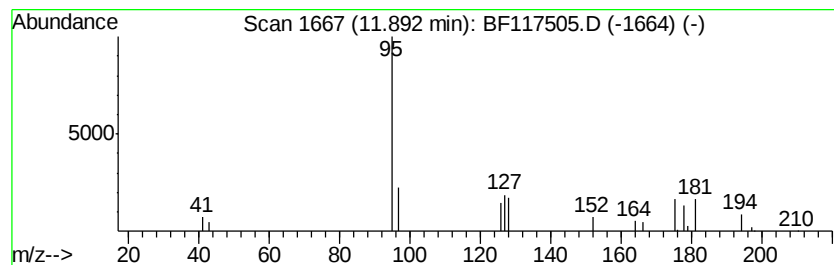
Instrument :
BNA_F
ClientSampleId :
168-74-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Phenanthrene, 4-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD		R.T.
11.89	8.58 ng	157942	Phenanthrene-d10		11.25
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	97
2	1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	95
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102319\
Data File : BF117505.D
Acq On : 24 Oct 2019 1:10
Operator : JU
Sample : K5497-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
168-74-(0-1)

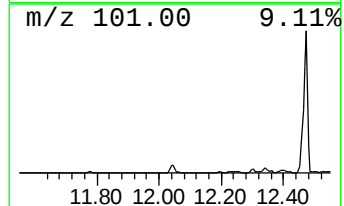
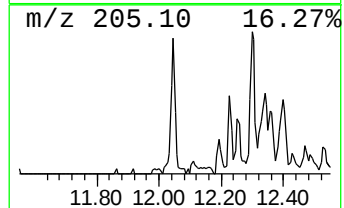
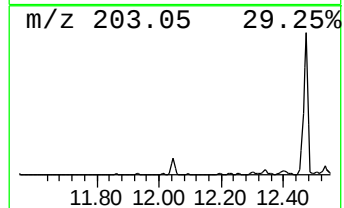
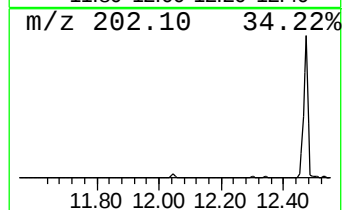
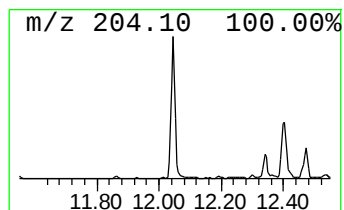
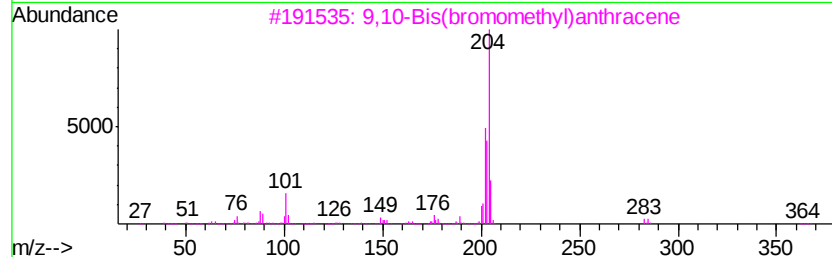
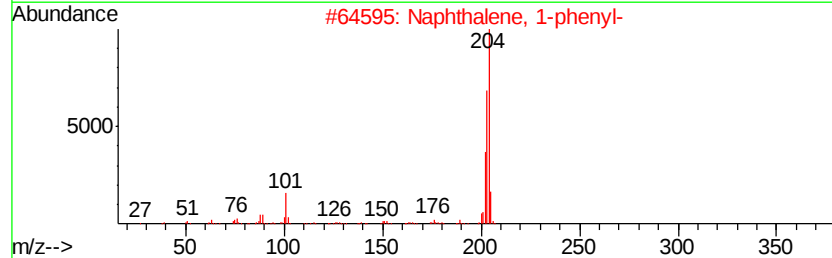
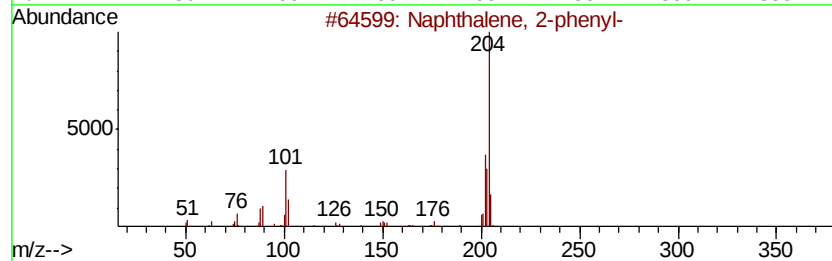
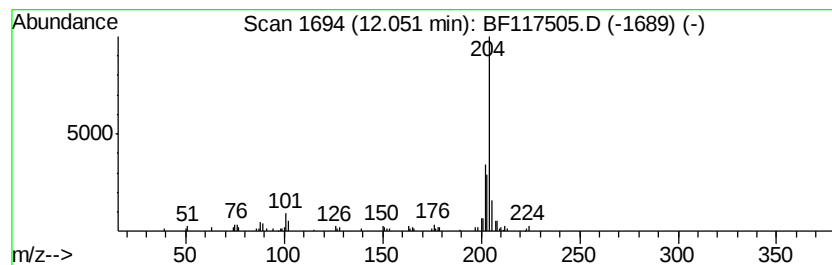
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.05	8.72 ng	160473	Phenanthrene-d10	11.25

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	90
2		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	86
3		9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	78
4		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	74
5		Levamisole	204	C11H12N2S	014769-73-4	53



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102319\
Data File : BF117505.D
Acq On : 24 Oct 2019 1:10
Operator : JU
Sample : K5497-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

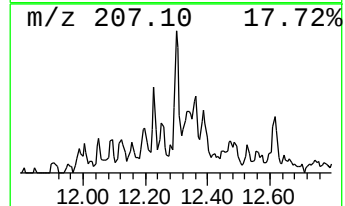
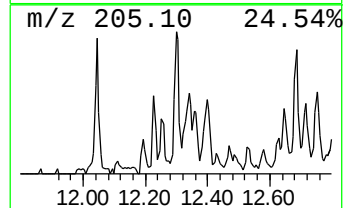
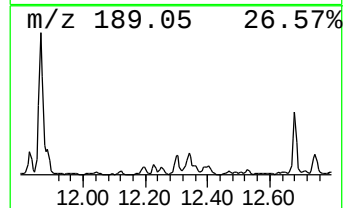
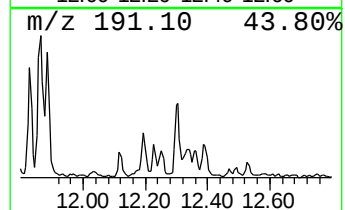
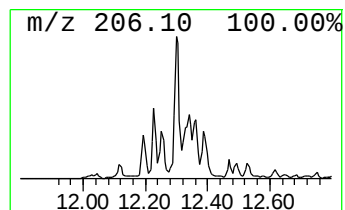
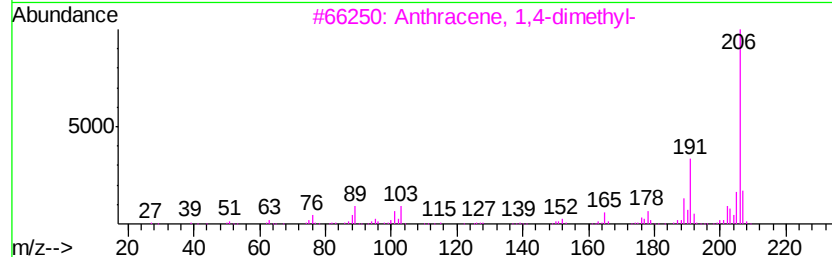
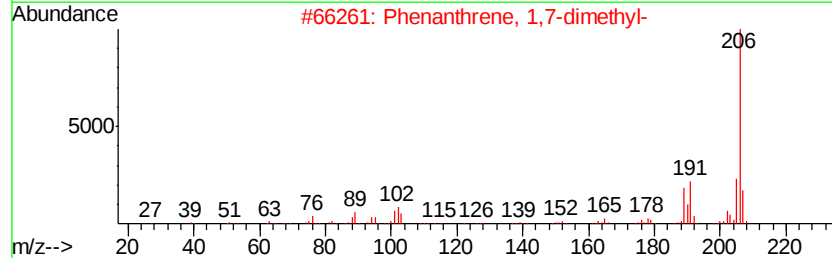
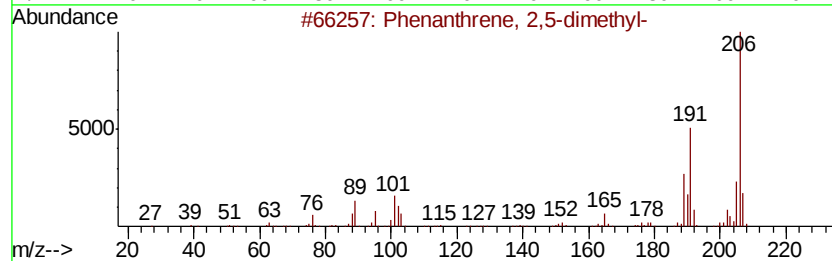
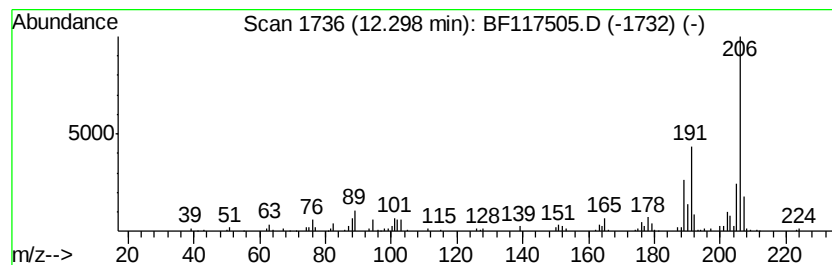
Instrument :
BNA_F
ClientSampleId :
168-74-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD		R.T.
12.30	10.09 ng	185759	Phenanthrene-d10		11.25
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	94
3	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
4	9,10-Dimethylantracene	206	C16H14	000781-43-1	93
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102319\
Data File : BF117505.D
Acq On : 24 Oct 2019 1:10
Operator : JU
Sample : K5497-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
168-74-(0-1)

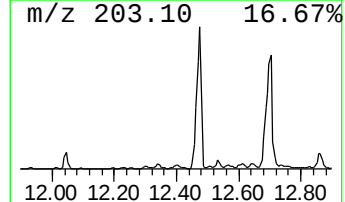
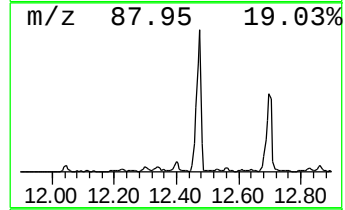
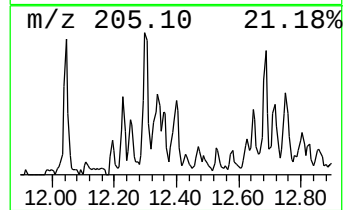
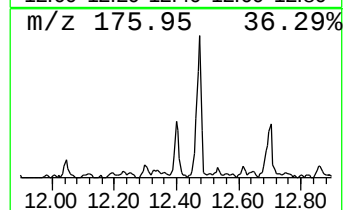
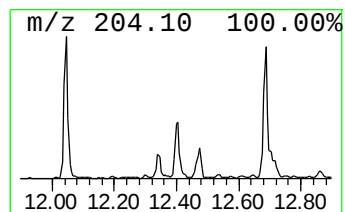
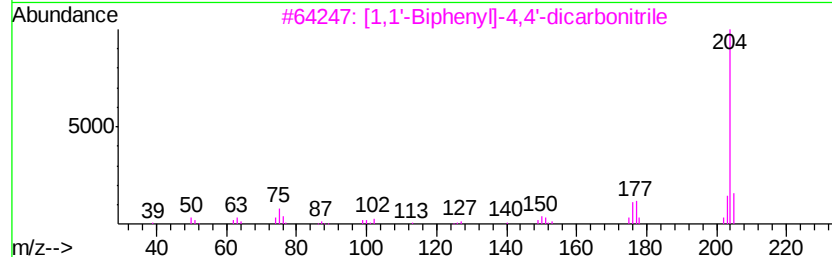
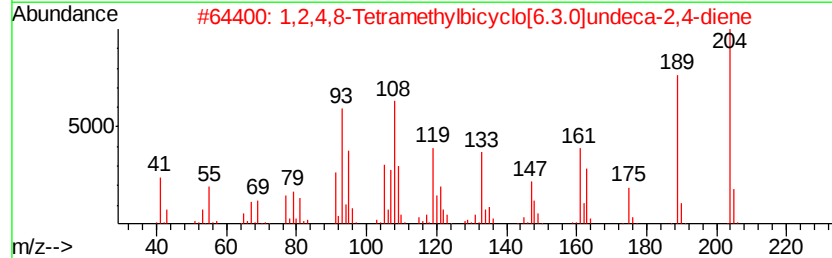
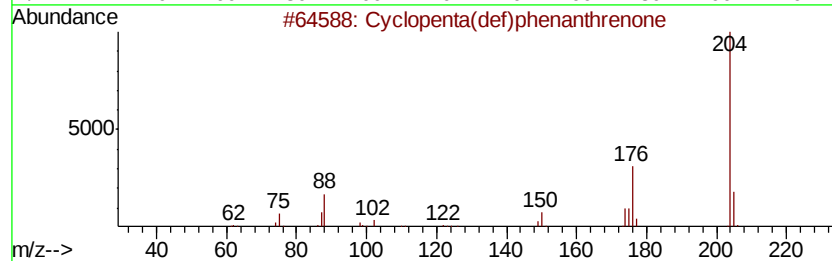
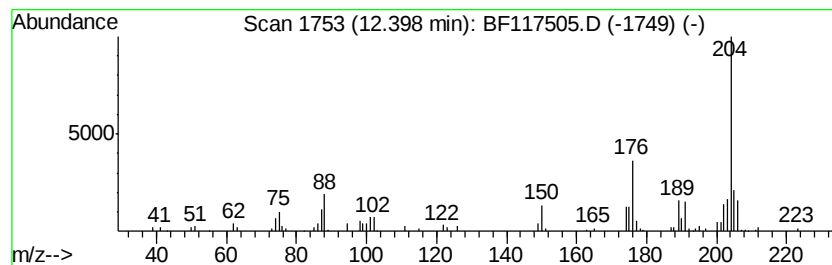
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	7.69 ng	141534	Phenanthrene-d10	11.25

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	94
2		1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene	204	C15H24	137235-51-9	60
3		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	58
4		[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	49
5		Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	46



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102319\
Data File : BF117505.D
Acq On : 24 Oct 2019 1:10
Operator : JU
Sample : K5497-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
168-74-(0-1)

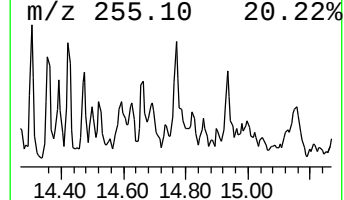
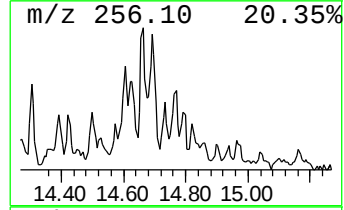
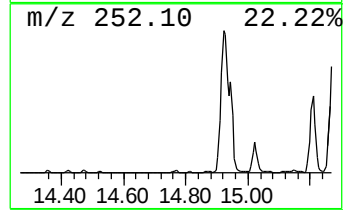
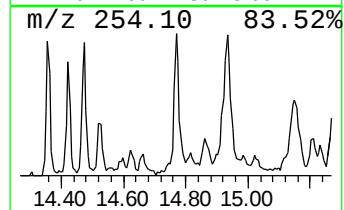
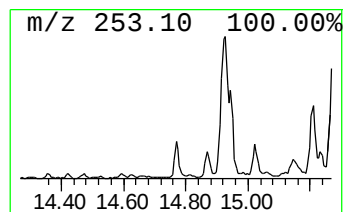
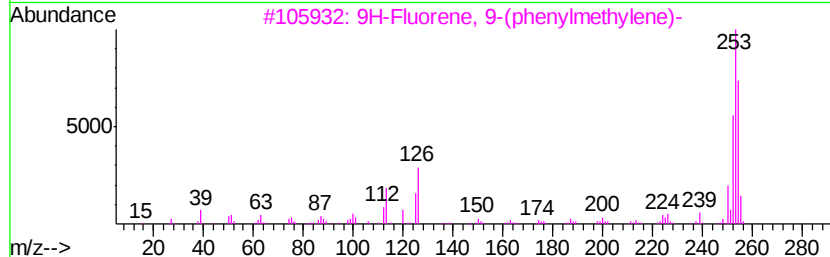
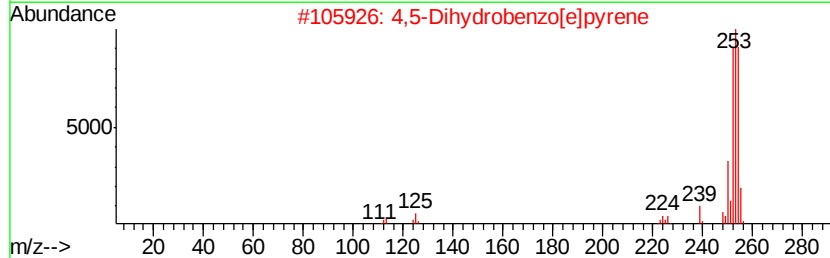
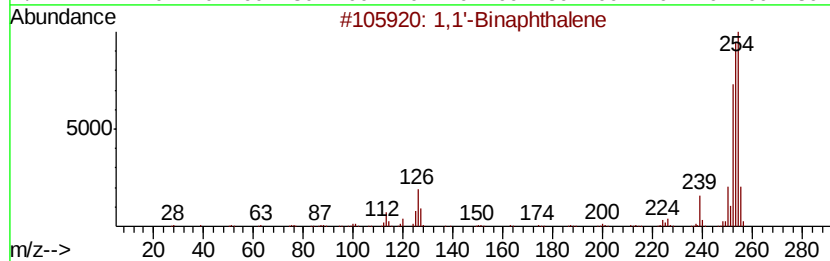
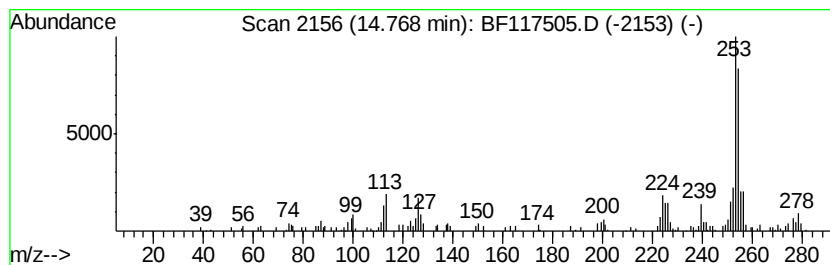
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 1,1'-Binaphthalene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.77	5.92 ng	101247	Perylene-d12	15.33

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,1'-Binaphthalene	254	C20H14	000604-53-5	95
2		4,5-Dihydrobenzo[el]pyrene	254	C20H14	095676-42-9	76
3		9H-Fluorene, 9-(phenylmethyl)-	254	C20H14	001836-87-9	76
4		9,10[1',2']-Benzoanthracene, 9...	254	C20H14	000477-75-8	62
5		1,2'-Binaphthalene	254	C20H14	004325-74-0	58



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102319\
Data File : BF117505.D
Acq On : 24 Oct 2019 1:10
Operator : JU
Sample : K5497-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

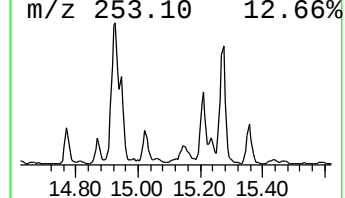
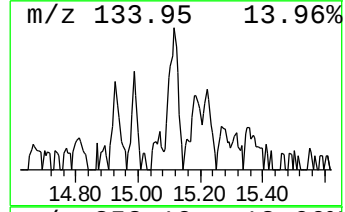
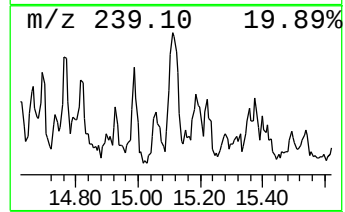
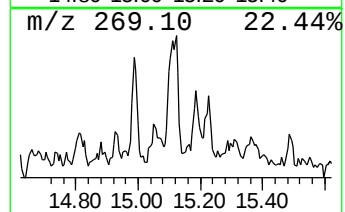
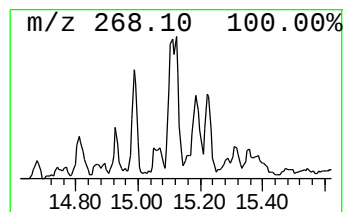
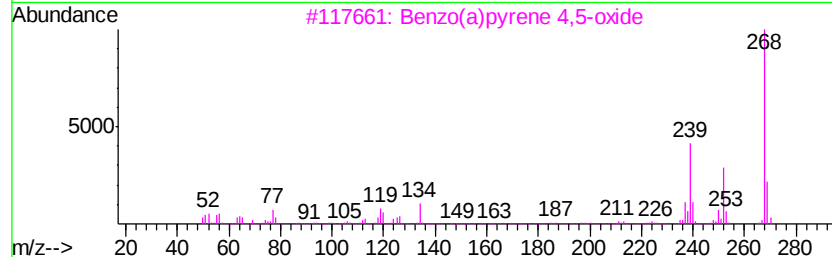
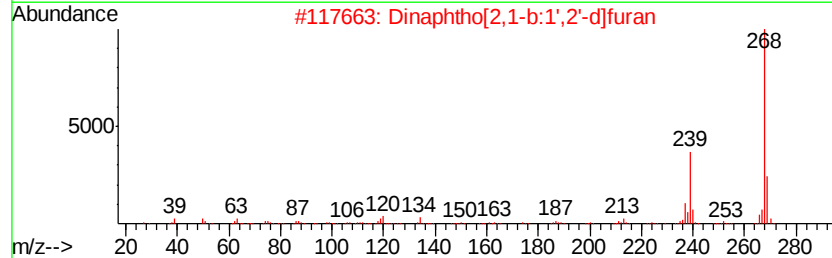
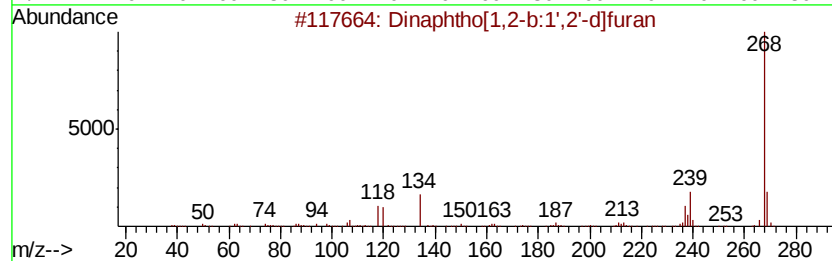
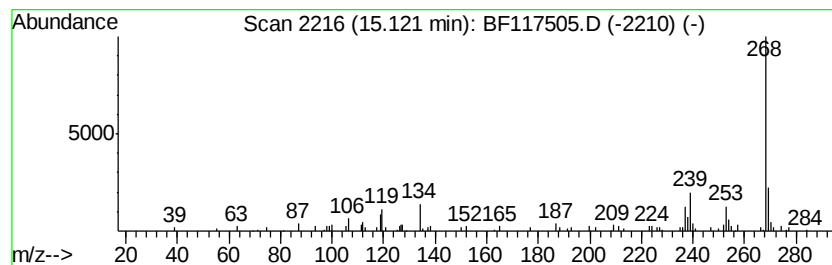
Instrument :
BNA_F
ClientSampleId :
168-74-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.		
15.12	6.32 ng	107985	Perylene-d12	15.33		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	95
2		Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	81
3		Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	72
4		9,10-Anthracenedione, 1,4,5,8-te...	268	C14H12N4O2	002475-45-8	58
5		Benzo(a)pyren-7-ol	268	C20H12O	037994-82-4	53



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102319\
Data File : BF117505.D
Acq On : 24 Oct 2019 1:10
Operator : JU
Sample : K5497-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
168-74-(0-1)

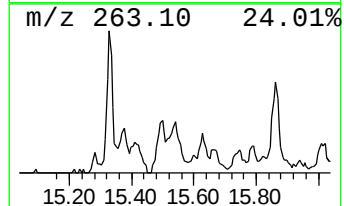
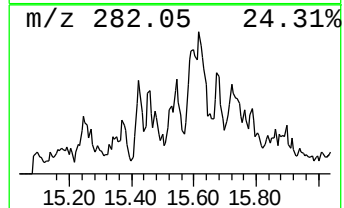
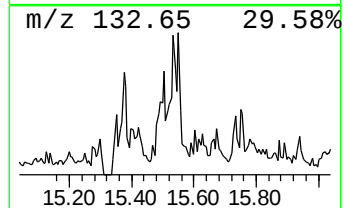
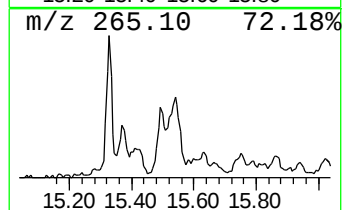
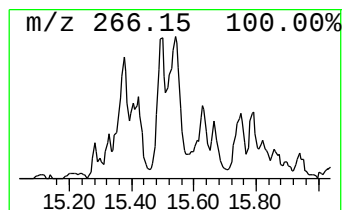
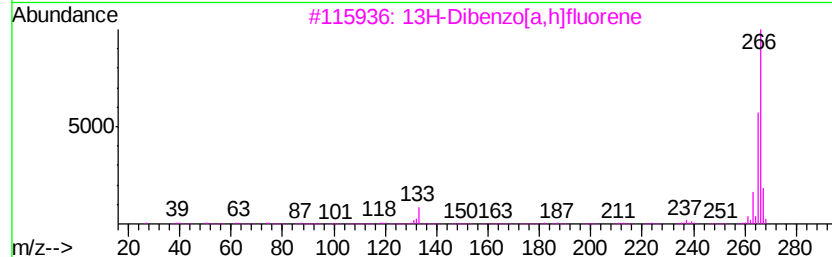
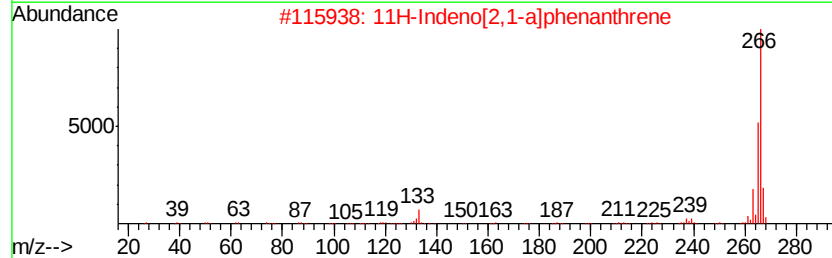
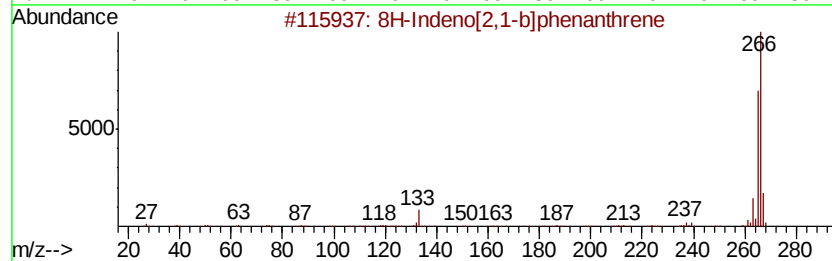
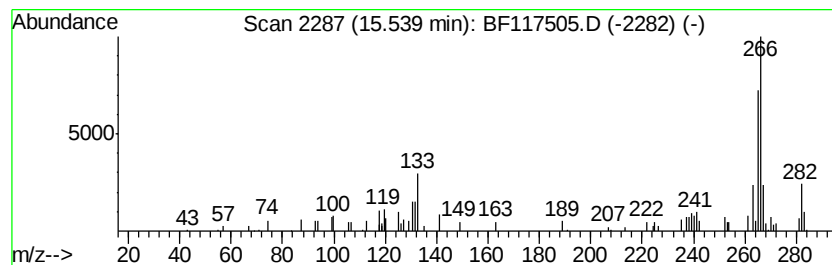
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 8H-Indeno[2,1-b]phenanthrene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.54	6.41 ng	109571	Perylene-d12	15.33

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	81
2		11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	58
3		13H-Dibenzof[a,h]fluorene	266	C21H14	000239-85-0	58
4		Benz[il]aceanthrylene, 3-methyl-	266	C21H14	003343-10-0	53
5		4H-1-Benzopyran-4-one, 3-hydroxy...	266	C17H14O3	078396-37-9	52



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF102319\
Data File : BF117505.D
Acq On : 24 Oct 2019 1:10
Operator : JU
Sample : K5497-07
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
168-74-(0-1)

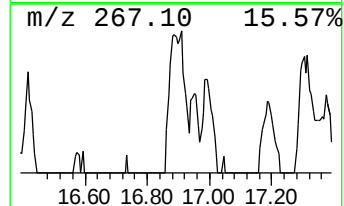
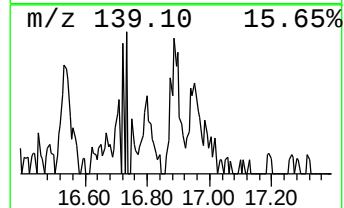
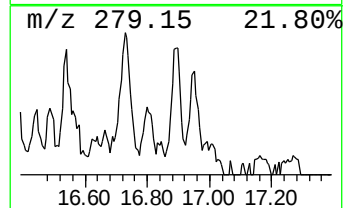
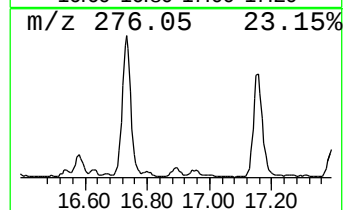
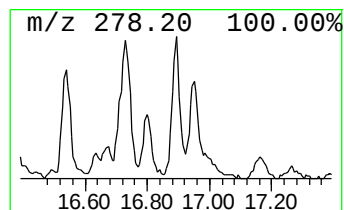
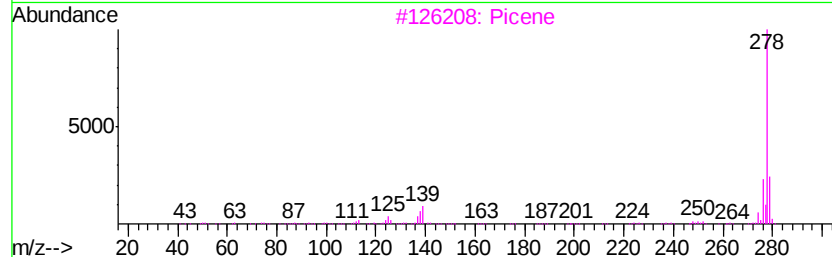
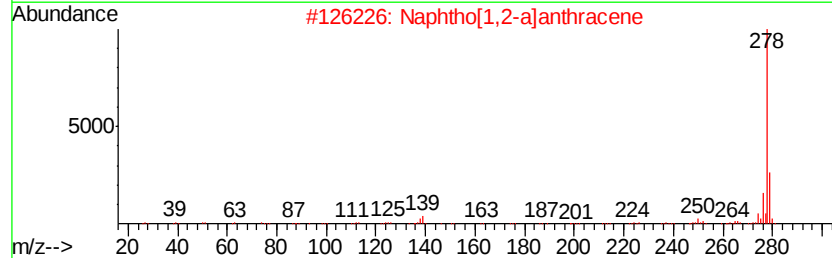
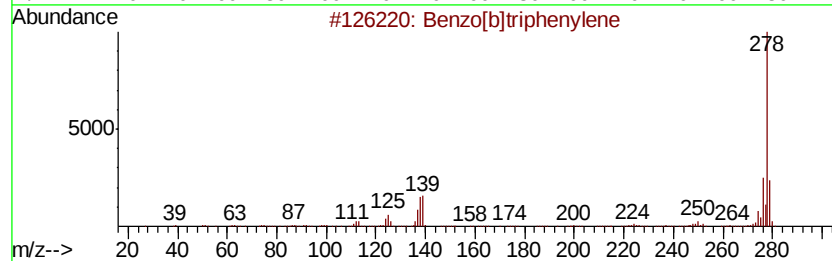
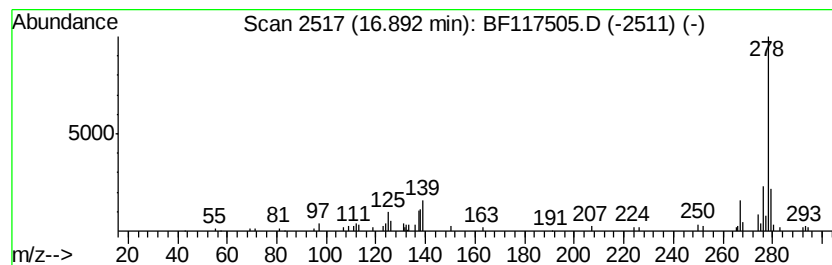
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Benzo[b]triphenylene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.89	5.90 ng	100867	Perylene-d12	15.33

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[b]triphenylene	278	C22H14	000215-58-7	94
2		Naphtho[1,2-a]anthracene	278	C22H14	000195-06-2	93
3		Picene	278	C22H14	000213-46-7	89
4		Dibenz[a,h]anthracene	278	C22H14	000053-70-3	86
5		Pentaphene	278	C22H14	000222-93-5	76



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF102319\
 Data File : BF117505.D
 Acq On : 24 Oct 2019 1:10
 Operator : JU
 Sample : K5497-07
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 168-74-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.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
unknown6.50	6.50	78.0	ng	1027020	1	6.73	263221	20.0
2,4,6-Trimethoxyb...	11.10	6.1	ng	112020	4	11.25	368139	20.0
3-(N,N-Dimethylam...	11.50	5.9	ng	109164	4	11.25	368139	20.0
Phenanthrene, 2-m...	11.75	11.3	ng	208734	4	11.25	368139	20.0
Phenanthrene, 1-m...	11.78	19.3	ng	355895	4	11.25	368139	20.0
Anthracene, 2-met...	11.83	8.9	ng	163268	4	11.25	368139	20.0
4H-Cyclopenta[def...	11.86	22.7	ng	417419	4	11.25	368139	20.0
Phenanthrene, 4-m...	11.89	8.6	ng	157942	4	11.25	368139	20.0
Naphthalene, 2-ph...	12.05	8.7	ng	160473	4	11.25	368139	20.0
Phenanthrene, 2,5...	12.30	10.1	ng	185759	4	11.25	368139	20.0
Cyclopenta(def)ph...	12.40	7.7	ng	141534	4	11.25	368139	20.0
1,1'-Binaphthalene	14.77	5.9	ng	101247	6	15.33	341896	20.0
Dinaphtho[1,2-b:1...	15.12	6.3	ng	107985	6	15.33	341896	20.0
8H-Indeno[2,1-b]p...	15.54	6.4	ng	109571	6	15.33	341896	20.0
Benzo[b]triphenylene	16.89	5.9	ng	100867	6	15.33	341896	20.0