

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
 Data File : BF114510.D
 Acq On : 23 May 2019 3:25
 Operator : JU/SJ
 Sample : K2642-05 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OK-01-052119

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-BF051019.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	5.457	570	573	590	rBV	1219379	1526248	27.52%	2.183%
2	6.475	742	746	764	rBV	1217480	1659963	29.94%	2.375%
3	6.604	764	768	774	rBV	1787497	1597206	28.80%	2.285%
4	6.828	803	806	814	rBV	1416683	1196126	21.57%	1.711%
5	6.987	829	833	847	rVB	1256160	1266870	22.85%	1.812%
6	7.392	898	902	915	rBV	840433	971153	17.51%	1.389%
7	8.110	1021	1024	1026	rBV	1704230	1458509	26.30%	2.087%
8	8.134	1026	1028	1046	rVB	530822	628034	11.33%	0.898%
9	8.828	1143	1146	1153	rBV	375561	376027	6.78%	0.538%
10	8.922	1158	1162	1170	rVV	351168	359394	6.48%	0.514%
11	9.186	1203	1207	1217	rBV	1793555	1718173	30.99%	2.458%
12	9.286	1222	1224	1231	rVB	110481	101061	1.82%	0.145%
13	9.380	1238	1240	1247	rVB	64627	90394	1.63%	0.129%
14	9.451	1248	1252	1256	rBV	155571	214679	3.87%	0.307%
15	9.528	1261	1265	1267	rVV	260765	276927	4.99%	0.396%
16	9.551	1267	1269	1271	rVV	165314	149422	2.69%	0.214%
17	9.581	1271	1274	1281	rVV	202362	233229	4.21%	0.334%
18	9.639	1281	1284	1291	rVB	122468	147698	2.66%	0.211%
19	9.728	1293	1299	1302	rBV	208896	196239	3.54%	0.281%
20	9.869	1319	1323	1325	rBV	1690485	1557649	28.09%	2.228%
21	9.898	1325	1328	1332	rVB	1231822	974357	17.57%	1.394%
22	9.969	1337	1340	1344	rVB2	57538	78278	1.41%	0.112%
23	10.022	1344	1349	1351	rBV2	82174	82834	1.49%	0.119%
24	10.069	1353	1357	1361	rBV	499881	492510	8.88%	0.705%
25	10.110	1361	1364	1368	rVB	103107	100496	1.81%	0.144%
26	10.180	1373	1376	1379	rBV2	97527	101391	1.83%	0.145%
27	10.416	1412	1416	1421	rVB	1157258	1041531	18.78%	1.490%
28	10.480	1421	1427	1428	rBV	117196	154745	2.79%	0.221%
29	10.498	1428	1430	1433	rVB3	116510	101025	1.82%	0.145%
30	10.569	1440	1442	1445	rVB	166623	146026	2.63%	0.209%
31	10.657	1450	1457	1463	rBV	1063332	1176860	21.22%	1.684%
32	10.775	1476	1477	1484	rVB3	82478	97874	1.77%	0.140%
33	10.963	1502	1509	1512	rBV2	213054	285223	5.14%	0.408%
34	10.992	1512	1514	1517	rVV	129784	120996	2.18%	0.173%

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
 Data File : BF114510.D
 Acq On : 23 May 2019 3:25
 Operator : JU/SJ
 Sample : K2642-05 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OK-01-052119

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-BF051019.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.045	1520	1523	1526	rVV	117126	103331	1.86%	0.148%
36	11.086	1526	1530	1532	rVV3	70696	103195	1.86%	0.148%
37	11.110	1532	1534	1540	rVV2	90116	123772	2.23%	0.177%
38	11.163	1540	1543	1547	rVV	68427	86545	1.56%	0.124%
39	11.210	1547	1551	1553	rVV2	115074	143228	2.58%	0.205%
40	11.251	1553	1558	1563	rVB	417607	427697	7.71%	0.612%
41	11.357	1572	1576	1577	rBV	1623949	1583984	28.57%	2.266%
42	11.380	1577	1580	1583	rVV	4699033	4452864	80.30%	6.370%
43	11.427	1583	1588	1592	rVV	1319204	1338658	24.14%	1.915%
44	11.469	1592	1595	1598	rVV	143479	174032	3.14%	0.249%
45	11.510	1600	1602	1608	rVV4	54936	84783	1.53%	0.121%
46	11.586	1611	1615	1621	rVV	448667	485462	8.75%	0.695%
47	11.639	1621	1624	1627	rVV2	137343	153813	2.77%	0.220%
48	11.686	1629	1632	1637	rVB2	150050	169444	3.06%	0.242%
49	11.769	1642	1646	1649	rVB	103586	127283	2.30%	0.182%
50	11.857	1657	1661	1663	rBV	547758	548404	9.89%	0.785%
51	11.886	1663	1666	1670	rVB	779954	700731	12.64%	1.002%
52	11.933	1670	1674	1676	rBV	280539	259749	4.68%	0.372%
53	11.969	1676	1680	1682	rVV	1224267	1195866	21.57%	1.711%
54	11.986	1682	1683	1688	rVB	374369	314283	5.67%	0.450%
55	12.145	1707	1710	1713	rVV	449380	406297	7.33%	0.581%
56	12.186	1714	1717	1721	rVB	228627	217269	3.92%	0.311%
57	12.298	1731	1736	1739	rBV2	122069	155973	2.81%	0.223%
58	12.333	1739	1742	1744	rVV	141357	133257	2.40%	0.191%
59	12.357	1744	1746	1748	rVB2	118219	90655	1.63%	0.130%
60	12.404	1750	1754	1757	rBV	393314	416214	7.51%	0.595%
61	12.445	1757	1761	1763	rVV3	205403	288803	5.21%	0.413%
62	12.504	1766	1771	1774	rBV2	221300	314002	5.66%	0.449%
63	12.574	1778	1783	1786	rBV	5008985	4925757	88.83%	7.047%
64	12.633	1791	1793	1796	rVB	141142	109102	1.97%	0.156%
65	12.721	1804	1808	1810	rBV2	230427	241627	4.36%	0.346%
66	12.804	1815	1822	1827	rBV	4478516	5544983	100.00%	7.933%
67	12.851	1827	1830	1834	rVB2	231473	278366	5.02%	0.398%
68	12.933	1838	1844	1847	rBV2	1562021	1613163	29.09%	2.308%
69	12.963	1847	1849	1854	rVB	240301	229136	4.13%	0.328%
70	13.021	1854	1859	1862	rBV2	329378	565676	10.20%	0.809%
71	13.127	1869	1877	1880	rBV	1001116	1220738	22.02%	1.746%

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF052219\
 Data File : BF114510.D
 Acq On : 23 May 2019 3:25
 Operator : JU/SJ
 Sample : K2642-05 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OK-01-052119

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-BF051019.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.192	1885	1888	1891	rVV	928123	770413	13.89%	1.102%
73	13.233	1891	1895	1902	rVV3	460082	704864	12.71%	1.008%
74	13.321	1907	1910	1913	rBV	296555	291704	5.26%	0.417%
75	13.357	1913	1916	1919	rBV	351524	335237	6.05%	0.480%
76	13.480	1934	1937	1938	rBV2	95620	99747	1.80%	0.143%
77	13.551	1947	1949	1951	rBV	115574	81404	1.47%	0.116%
78	13.610	1957	1959	1962	rBV2	111565	117799	2.12%	0.169%
79	13.639	1962	1964	1968	rVB	192807	180785	3.26%	0.259%
80	13.745	1978	1982	1984	rBV	443975	495120	8.93%	0.708%
81	13.768	1984	1986	1989	rVB	387192	335341	6.05%	0.480%
82	13.798	1989	1991	1998	rBV3	324385	572231	10.32%	0.819%
83	13.851	1998	2000	2002	rBV	160140	149077	2.69%	0.213%
84	13.992	2017	2024	2028	rBV2	2554522	4380363	79.00%	6.267%
85	14.027	2028	2030	2033	rVB	2146896	1725228	31.11%	2.468%
86	14.104	2041	2043	2046	rVB	543044	439641	7.93%	0.629%
87	14.192	2056	2058	2060	rVB	127202	91972	1.66%	0.132%
88	14.227	2060	2064	2067	rBV2	176382	232530	4.19%	0.333%
89	14.345	2082	2084	2086	rBV2	173195	167422	3.02%	0.240%
90	14.386	2089	2091	2093	rVV	477710	384781	6.94%	0.550%
91	14.415	2094	2096	2099	rVB2	177805	162082	2.92%	0.232%
92	14.486	2106	2108	2110	rBV	167957	137175	2.47%	0.196%
93	14.510	2110	2112	2114	rBV	200150	183374	3.31%	0.262%
94	15.045	2199	2203	2206	rBV	1313509	1952575	35.21%	2.793%
95	15.345	2250	2254	2260	rVB	832020	1090184	19.66%	1.560%
96	15.410	2261	2265	2269	rVV	1182139	1510665	27.24%	2.161%
97	15.468	2271	2275	2278	rVV	857861	1157633	20.88%	1.656%
98	15.504	2278	2281	2287	rVB	369740	511345	9.22%	0.732%
99	16.951	2522	2527	2535	rVB2	476192	946599	17.07%	1.354%
100	17.398	2599	2603	2613	rVB	324549	685940	12.37%	0.981%

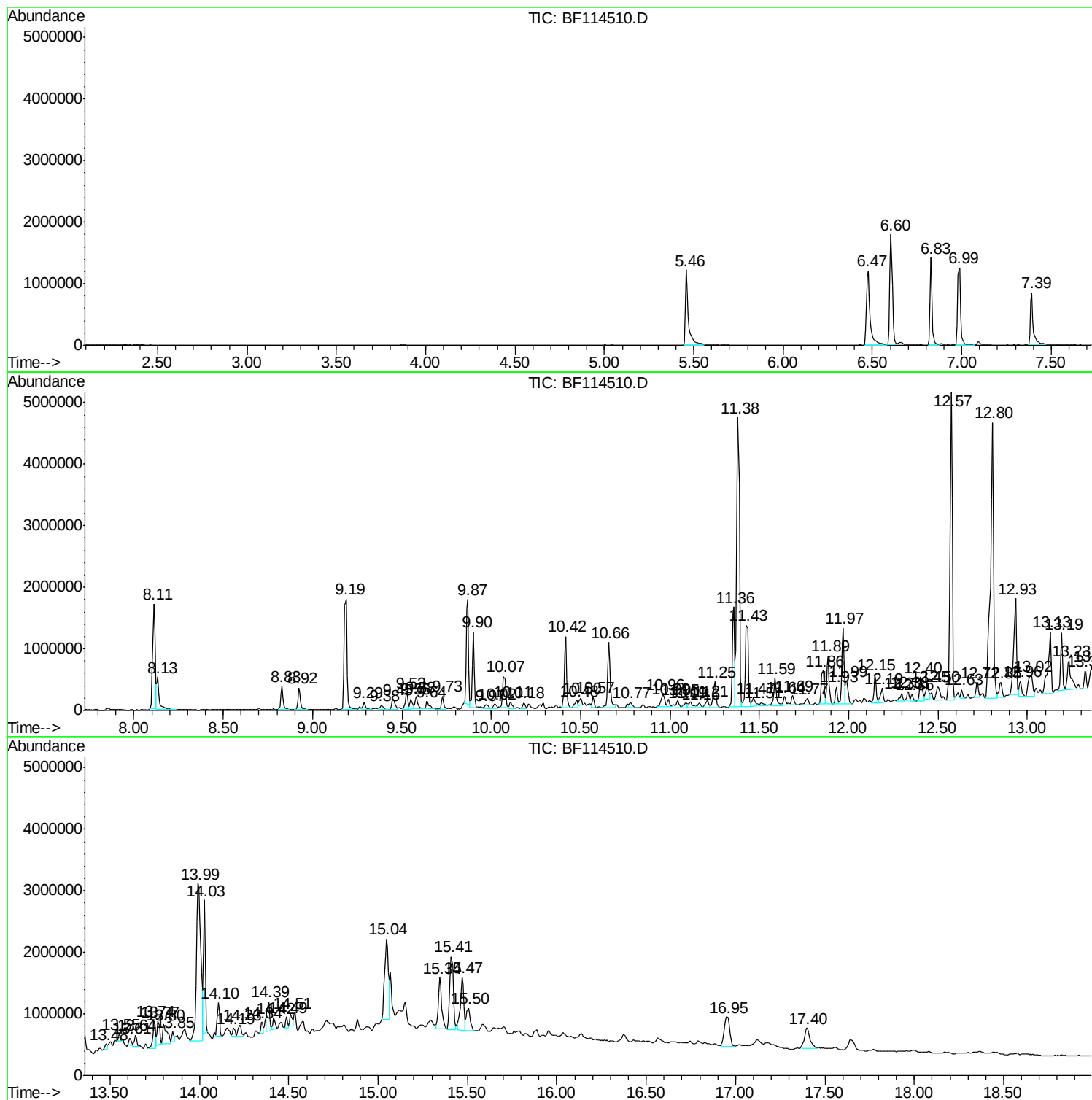
Sum of corrected areas: 69900520

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114510.D
Acq On : 23 May 2019 3:25
Operator : JU/SJ
Sample : K2642-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OK-01-052119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.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\BF052219\
Data File : BF114510.D
Acq On : 23 May 2019 3:25
Operator : JU/SJ
Sample : K2642-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OK-01-052119

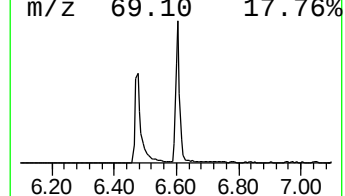
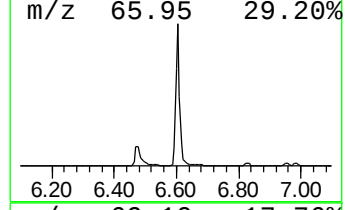
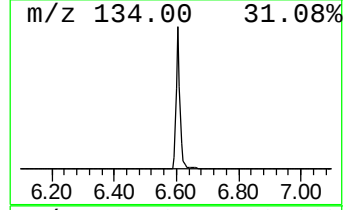
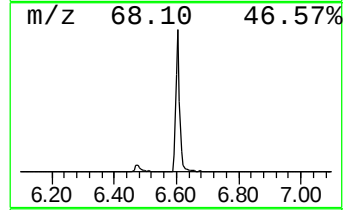
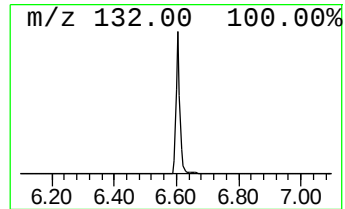
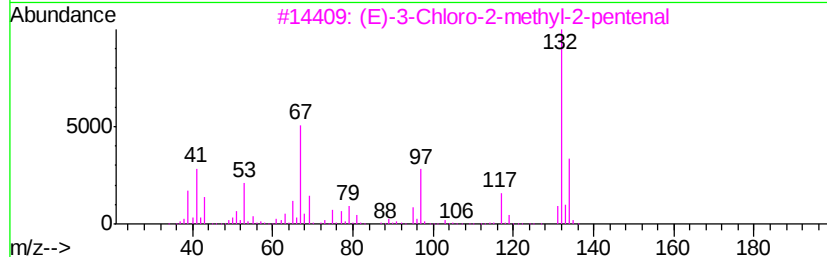
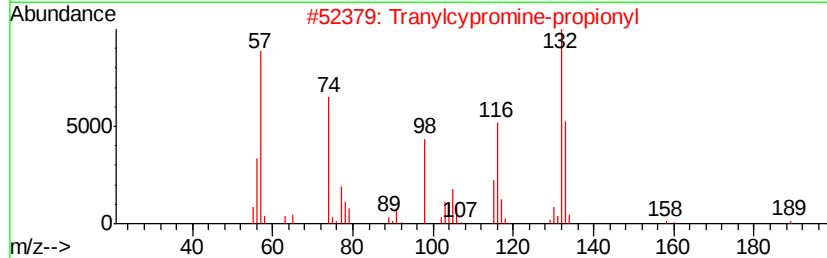
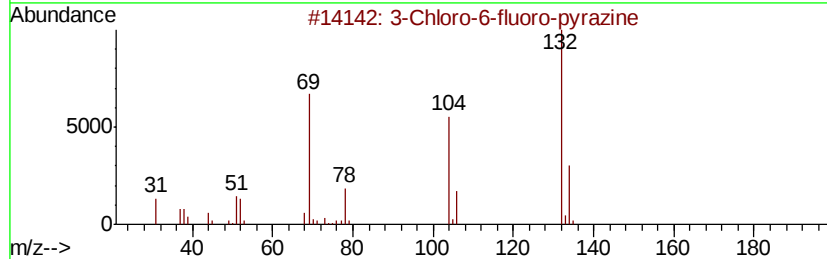
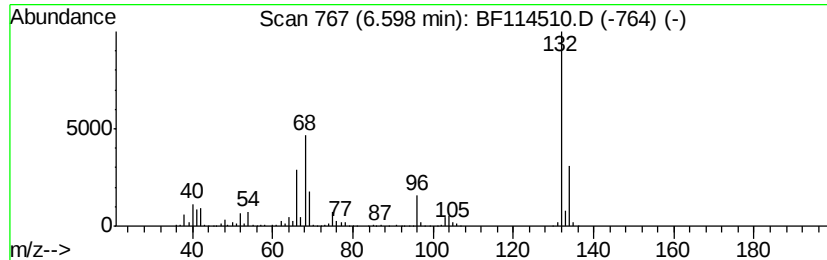
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 unknown6.60 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.60	26.71 ng	1597210	1,4-Dichlorobenzene-d4	6.83

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2		Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
3		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	12
4		1,3,5-Trifluorobenzene	132	C6H3F3	000372-38-3	9
5		Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114510.D
Acq On : 23 May 2019 3:25
Operator : JU/SJ
Sample : K2642-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OK-01-052119

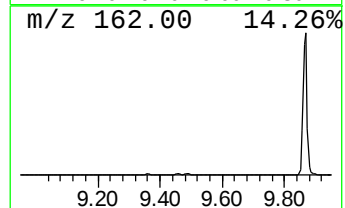
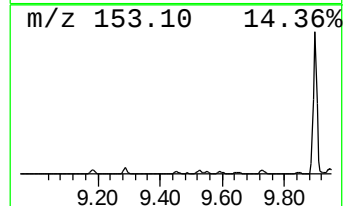
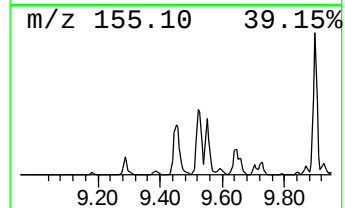
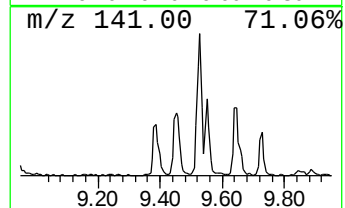
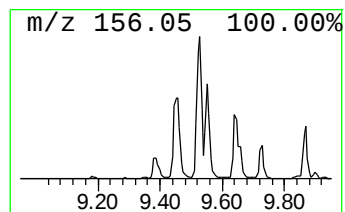
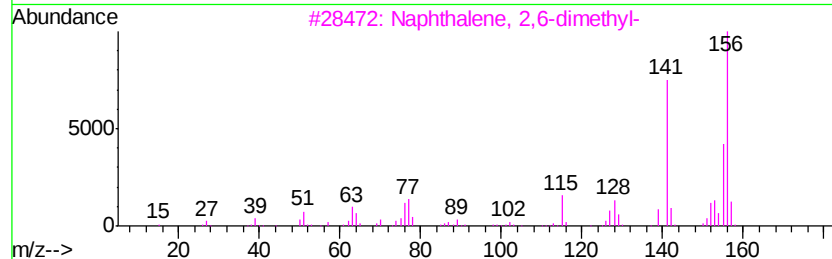
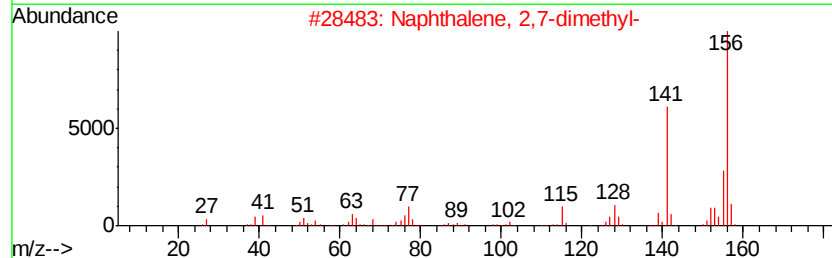
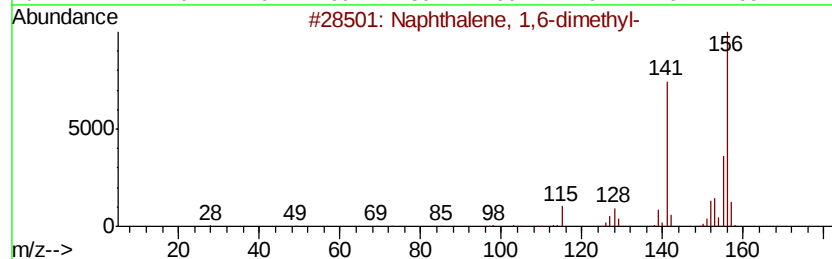
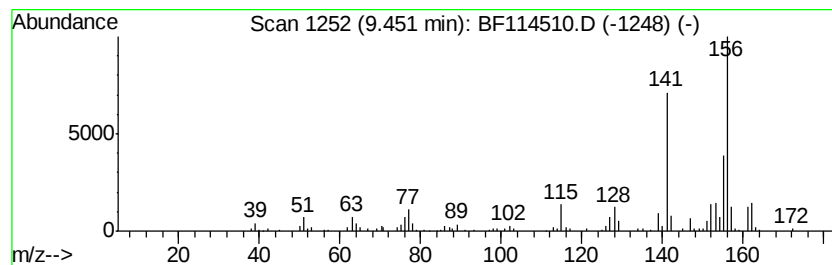
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 Naphthalene, 1,6-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.45	2.76 ng	214679	Acenaphthene-d10	9.87

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
2		Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	96
3		Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	95
4		Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	95
5		Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	95



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114510.D
Acq On : 23 May 2019 3:25
Operator : JU/SJ
Sample : K2642-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

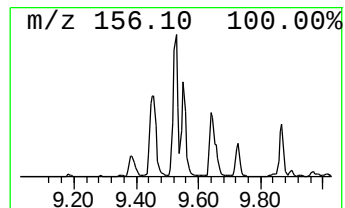
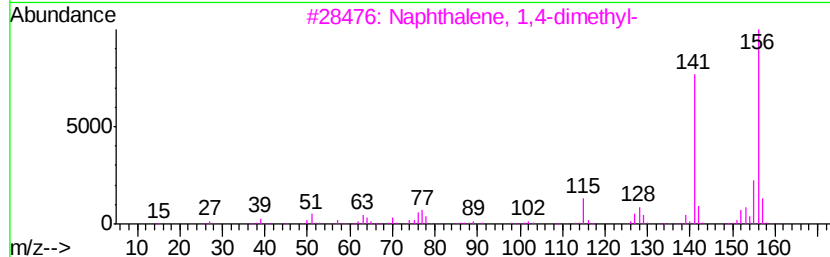
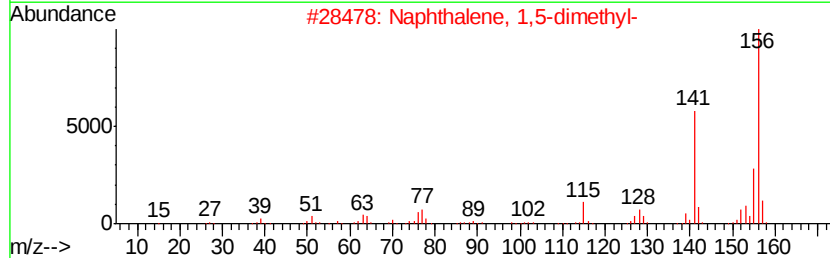
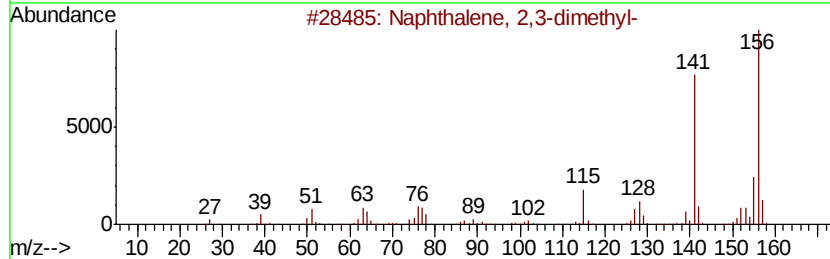
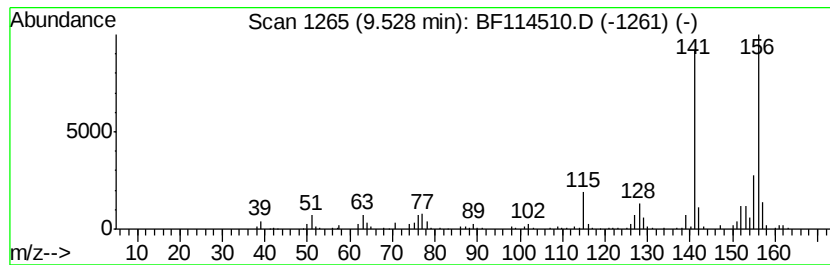
Instrument :
BNA_F
ClientSampleId :
OK-01-052119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.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, 2,3-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD		R.T.	
9.53	3.56 ng	276927	Acenaphthene-d10		9.87	
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2		Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
3		Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
4		Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
5		Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114510.D
Acq On : 23 May 2019 3:25
Operator : JU/SJ
Sample : K2642-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OK-01-052119

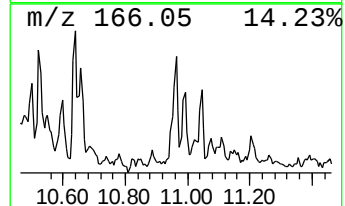
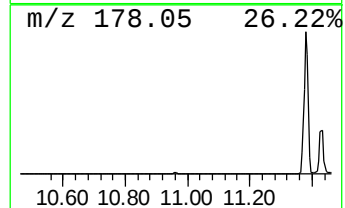
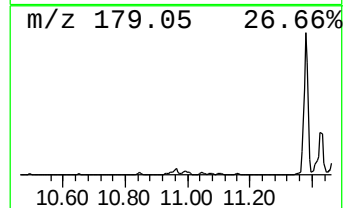
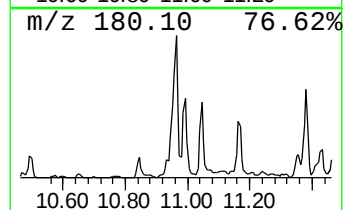
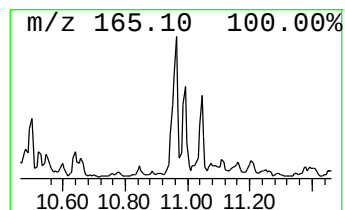
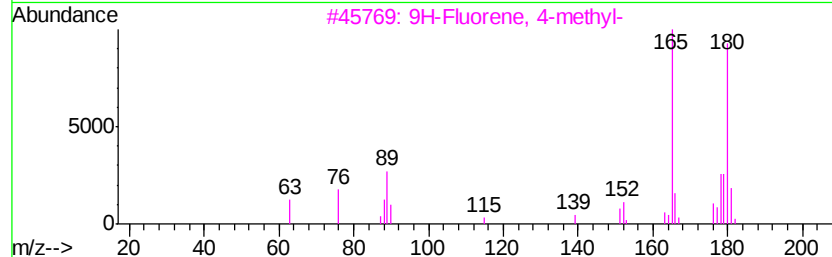
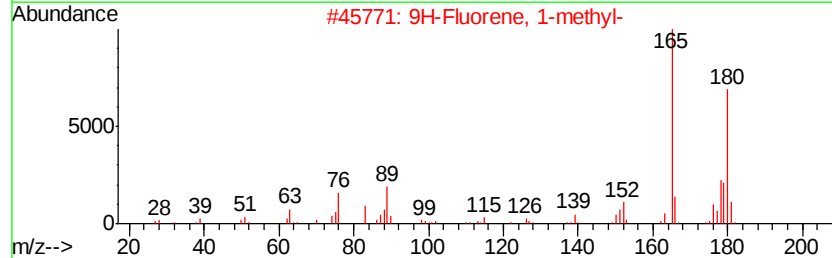
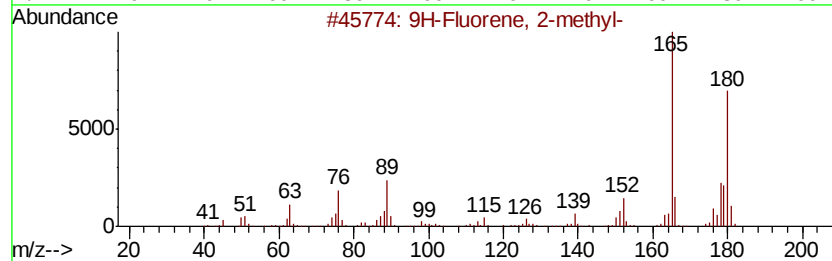
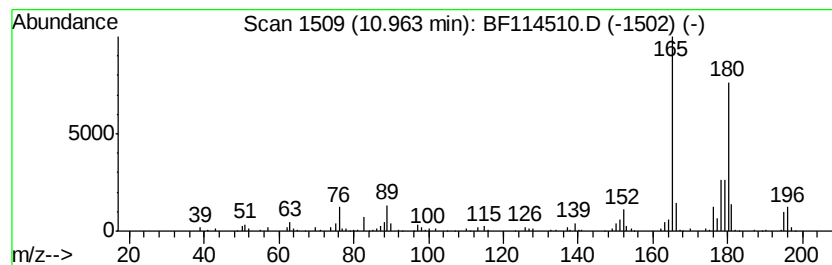
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 9H-Fluorene, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.96	3.60 ng	285223	Phenanthrene-d10	11.36

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	97
2		9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
3		9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	90
4		9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	89
5		9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	89



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114510.D
Acq On : 23 May 2019 3:25
Operator : JU/SJ
Sample : K2642-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OK-01-052119

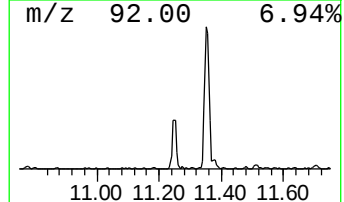
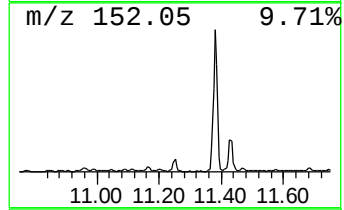
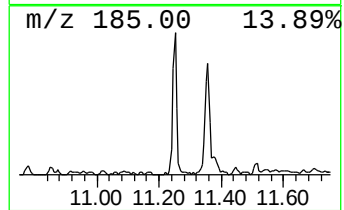
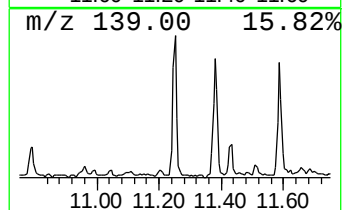
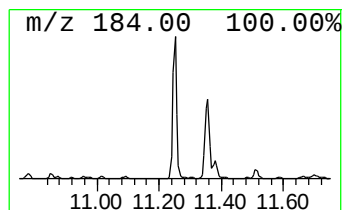
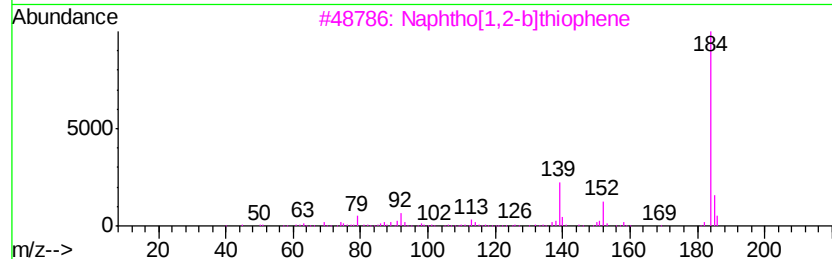
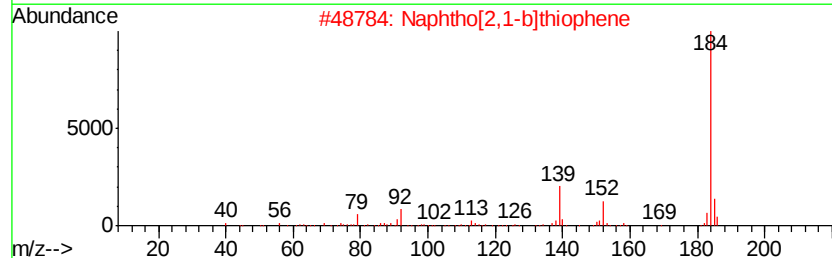
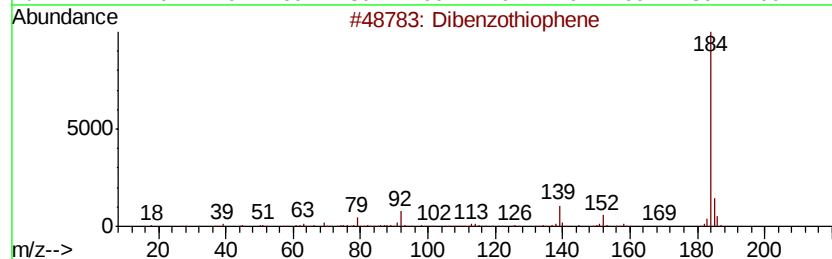
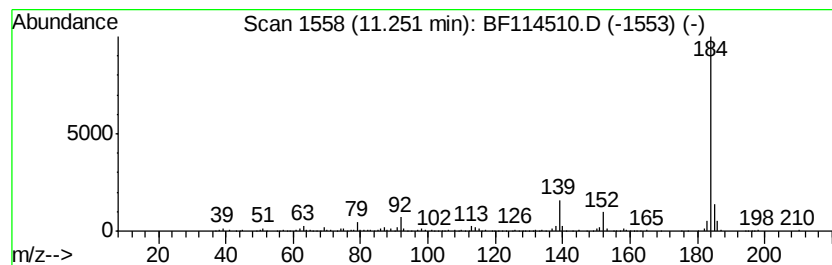
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Dibenzothiophene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.25	5.40 ng	427697	Phenanthrene-d10	11.36

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzothiophene	184	C12H8S	000132-65-0	97
2		Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
3		Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	94
4		Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
5		Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114510.D
Acq On : 23 May 2019 3:25
Operator : JU/SJ
Sample : K2642-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

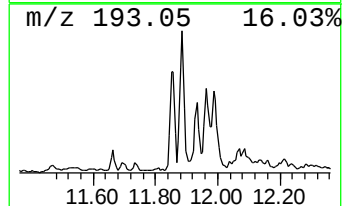
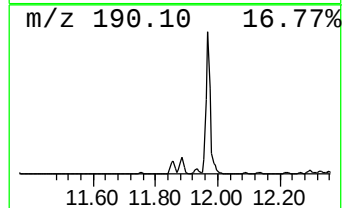
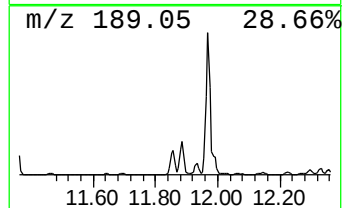
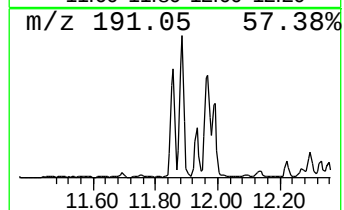
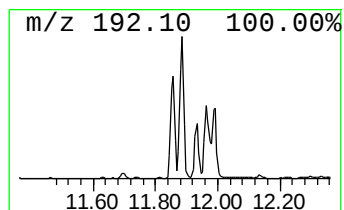
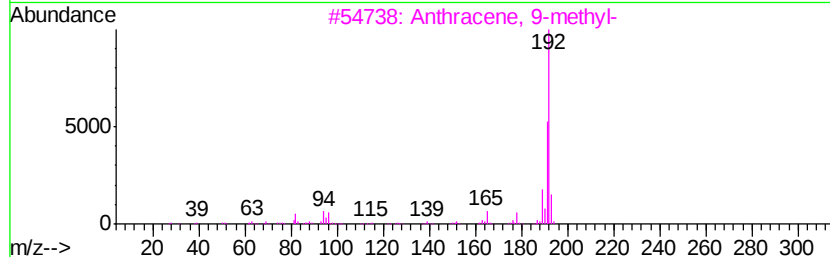
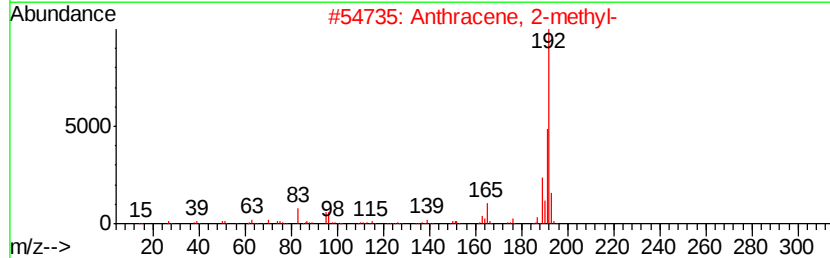
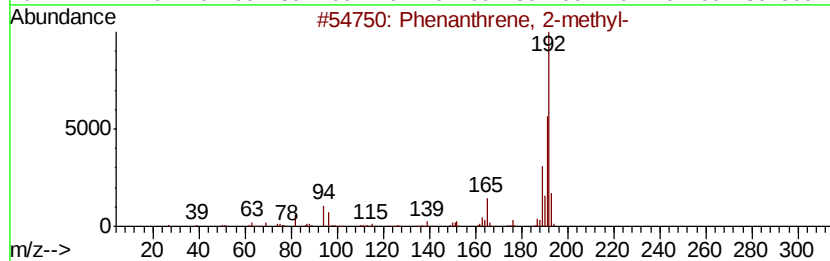
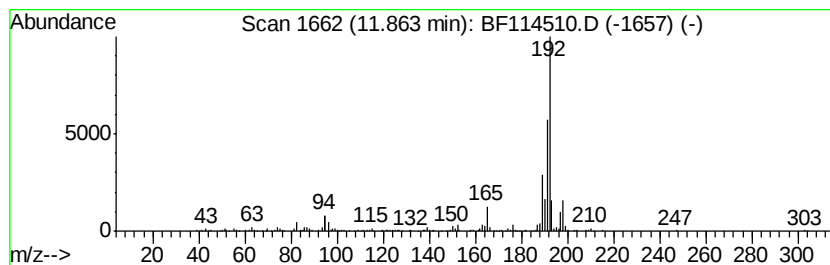
Instrument :
BNA_F
ClientSampleId :
OK-01-052119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.86	6.92 ng	548404	Phenanthrene-d10	11.36	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	96
4	1H-Cyclopropa[1,1]phenanthrene,1a,...	192	C15H12	000949-41-7	94
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114510.D
Acq On : 23 May 2019 3:25
Operator : JU/SJ
Sample : K2642-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OK-01-052119

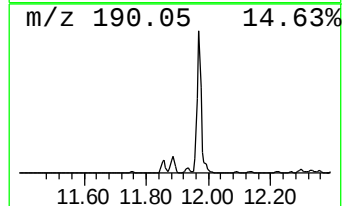
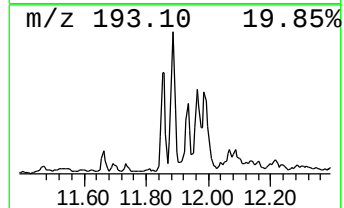
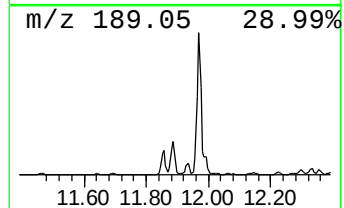
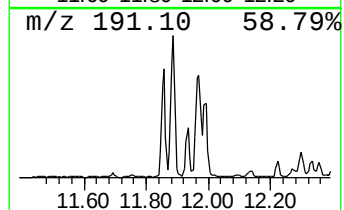
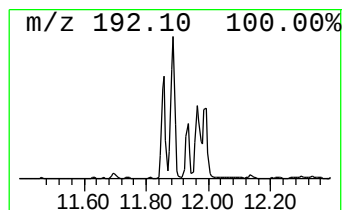
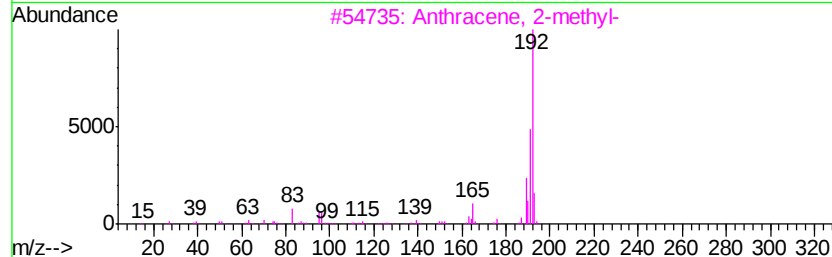
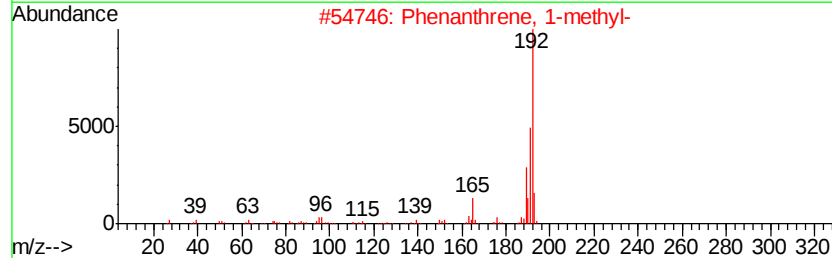
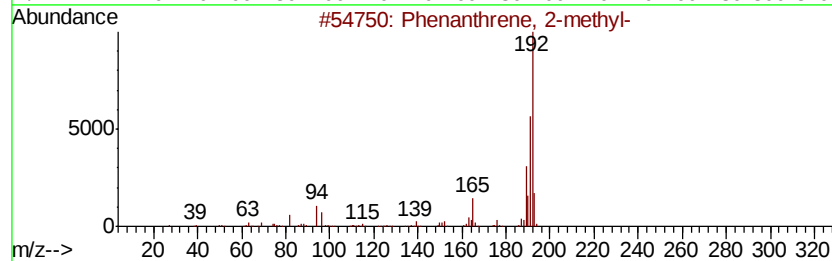
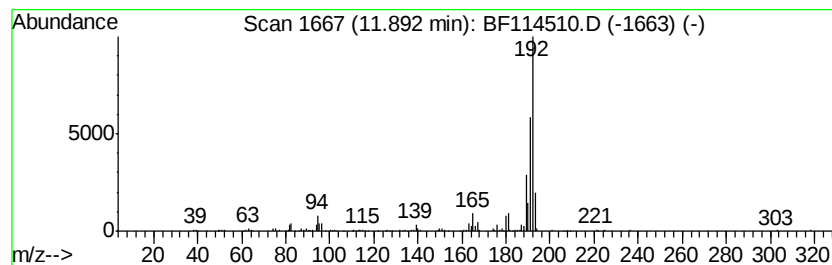
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	8.85 ng	700731	Phenanthrene-d10	11.36

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	95
4		Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
5		Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114510.D
Acq On : 23 May 2019 3:25
Operator : JU/SJ
Sample : K2642-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

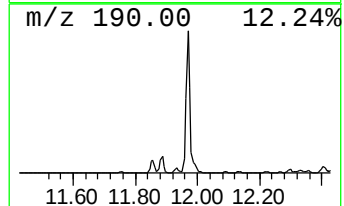
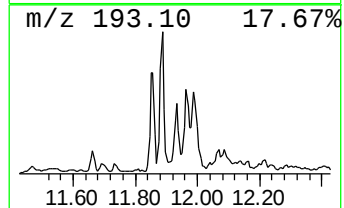
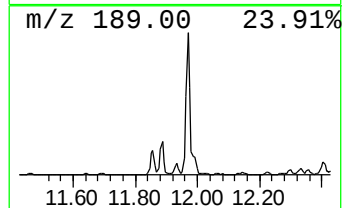
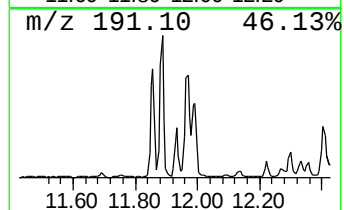
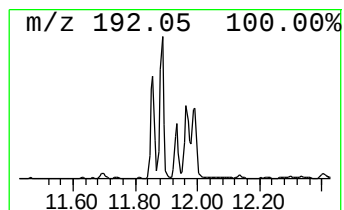
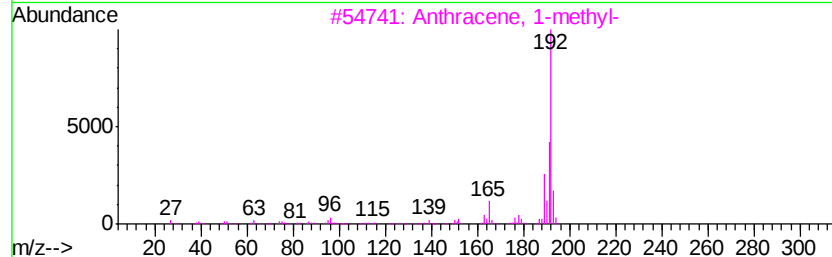
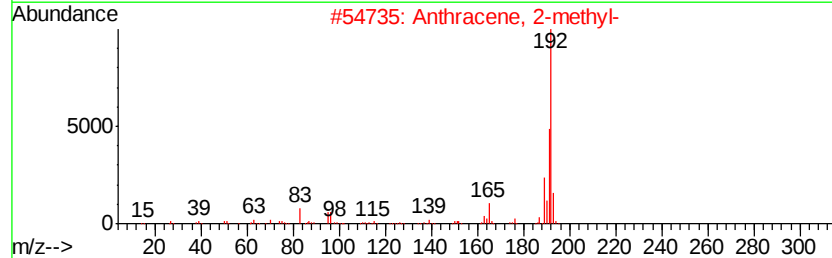
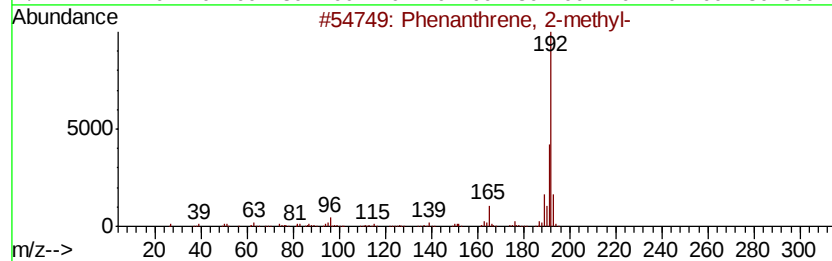
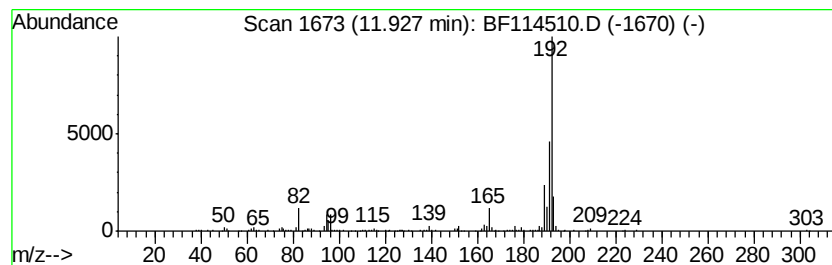
Instrument :
BNA_F
ClientSampleId :
OK-01-052119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Anthracene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.93	3.28 ng	259749	Phenanthrene-d10	11.36	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
5	1H-Cyclopropa[1]phenanthrene, 1a, ...	192	C15H12	000949-41-7	94



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114510.D
Acq On : 23 May 2019 3:25
Operator : JU/SJ
Sample : K2642-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

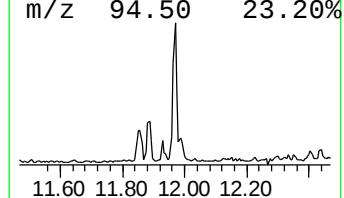
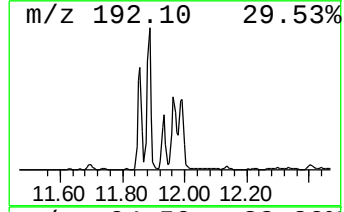
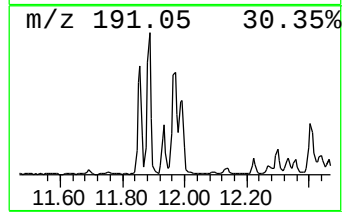
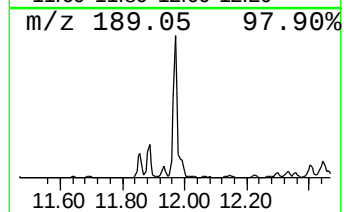
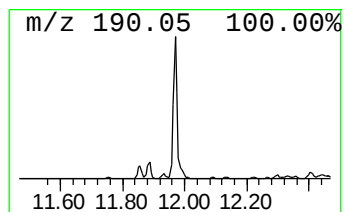
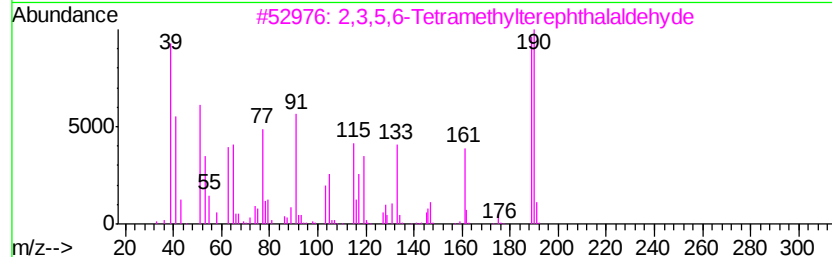
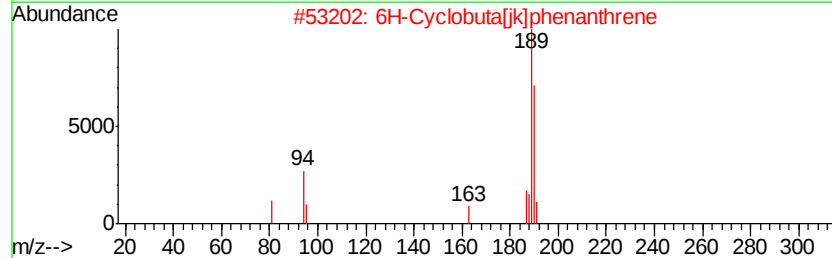
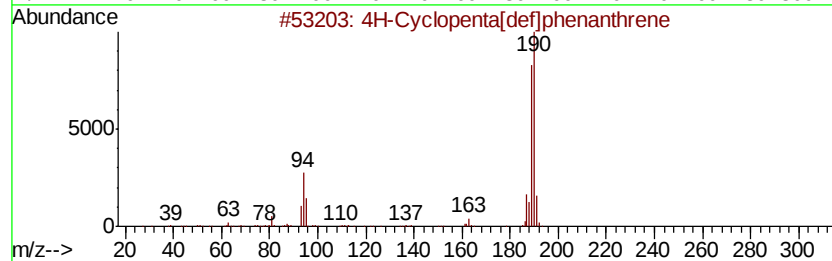
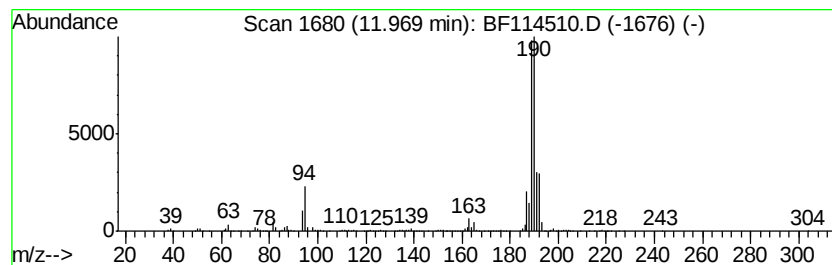
Instrument :
BNA_F
ClientSampleId :
OK-01-052119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.97	15.10 ng	1195870	Phenanthrene-d10	11.36	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	6H-Cyclobuta[i]phenanthrene	190	C15H10	083469-43-6	72
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
4	Methyl diselenide	190	C2H6Se2	007101-31-7	49
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114510.D
Acq On : 23 May 2019 3:25
Operator : JU/SJ
Sample : K2642-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OK-01-052119

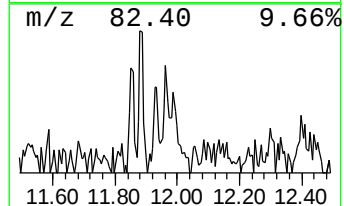
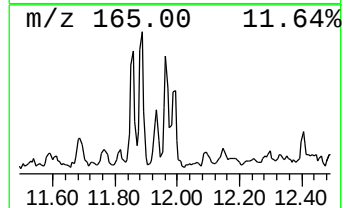
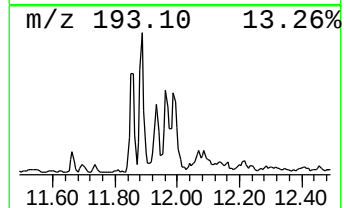
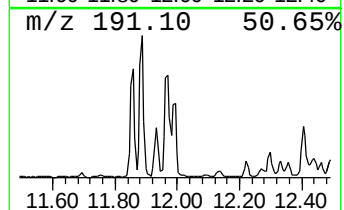
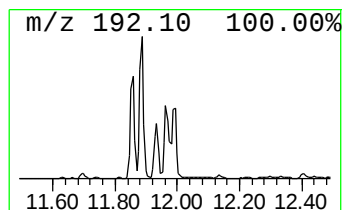
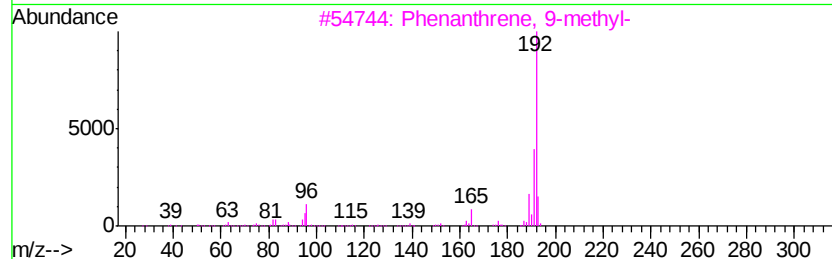
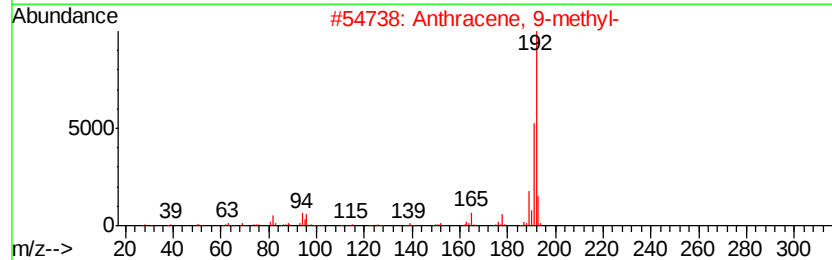
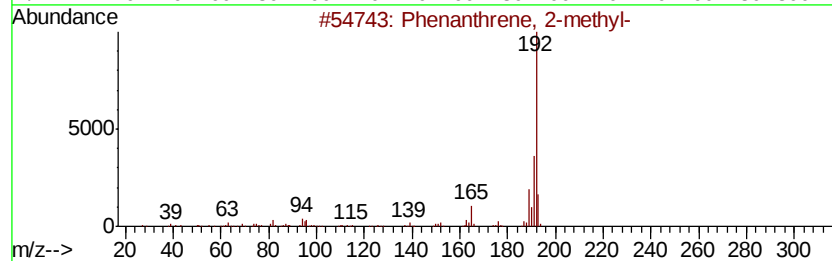
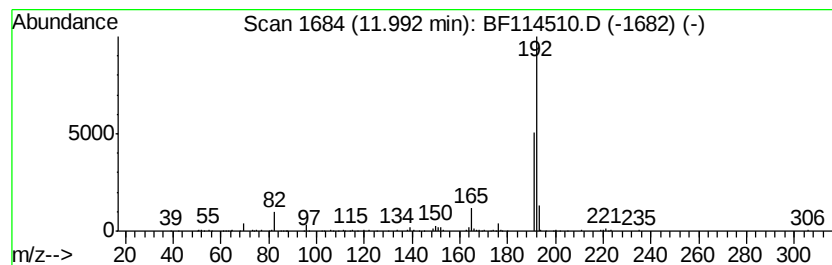
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Anthracene, 9-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	3.97 ng	314283	Phenanthrene-d10	11.36

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
2		Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
3		Phenanthrene, 9-methyl-	192	C15H12	000883-20-5	91
4		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
5		Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	91



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114510.D
Acq On : 23 May 2019 3:25
Operator : JU/SJ
Sample : K2642-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OK-01-052119

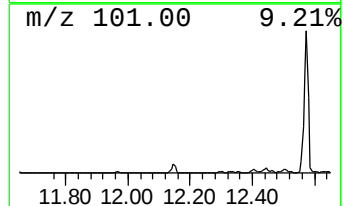
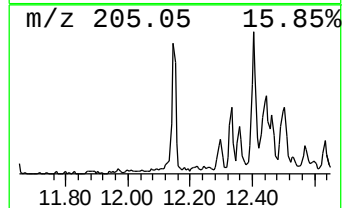
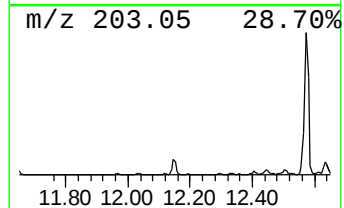
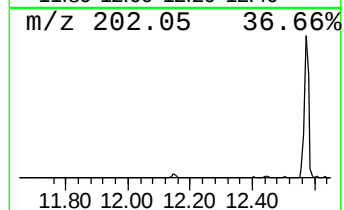
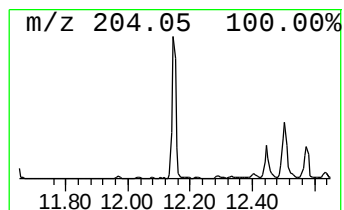
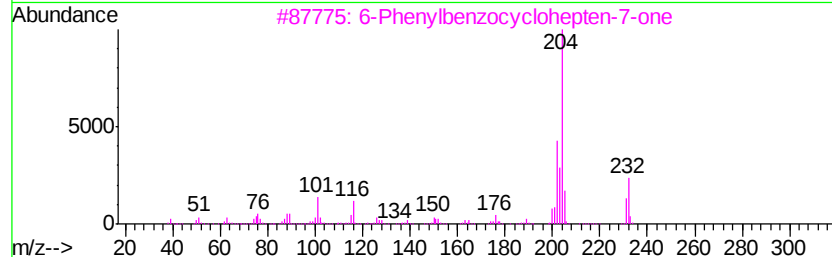
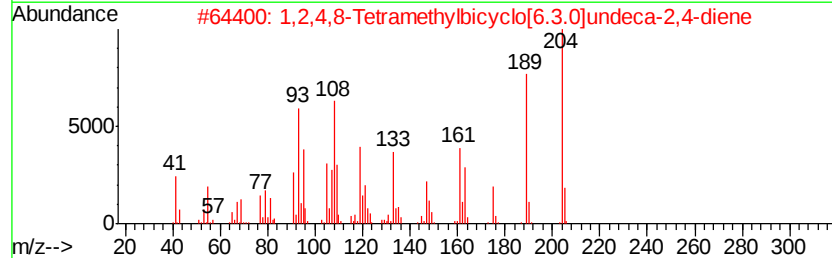
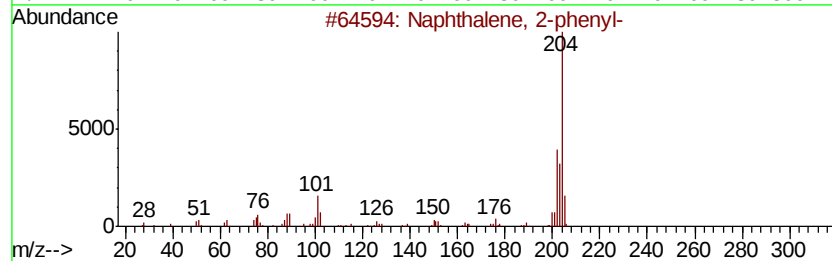
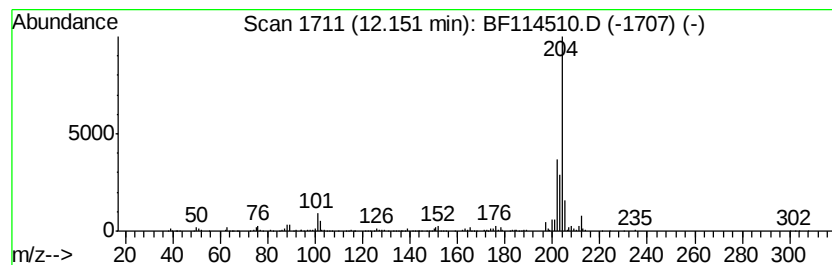
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Naphthalene, 2-phenyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.15	5.13 ng	406297	Phenanthrene-d10	11.36

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	96
2		1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene	204	C15H24	137235-51-9	86
3		6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	86
4		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	78
5		Tricyclo[8.2.2.2(4,7)]hexadeca-2,4,6,8-tetraene	204	C16H12	006572-60-7	74



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114510.D
Acq On : 23 May 2019 3:25
Operator : JU/SJ
Sample : K2642-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OK-01-052119

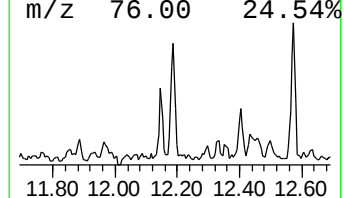
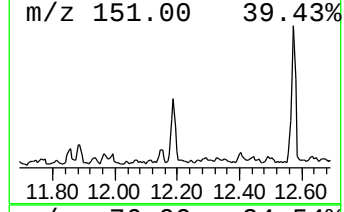
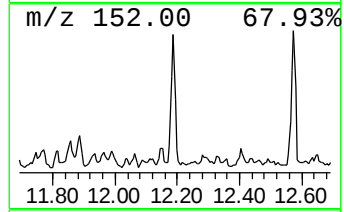
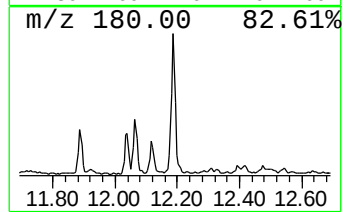
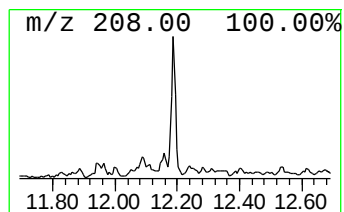
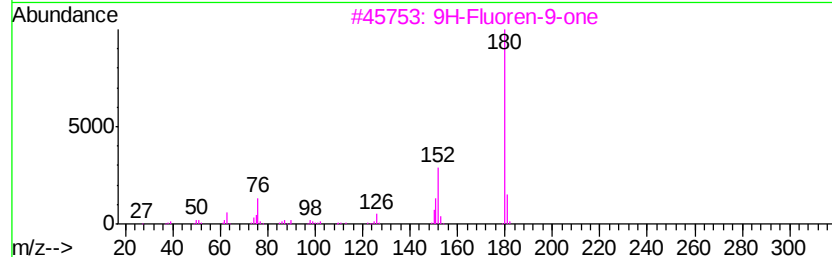
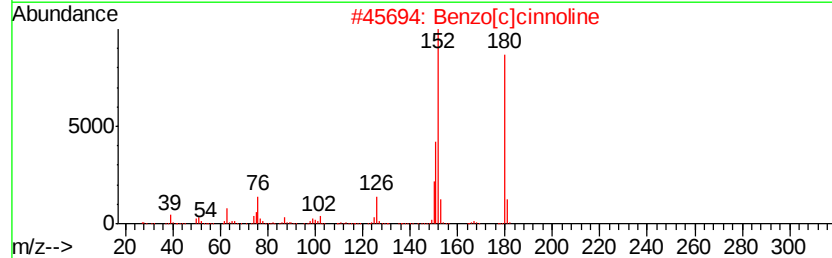
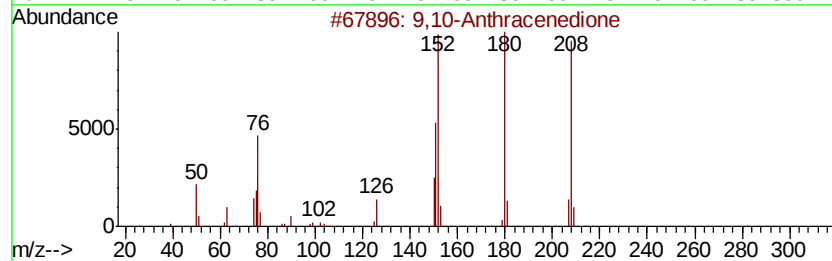
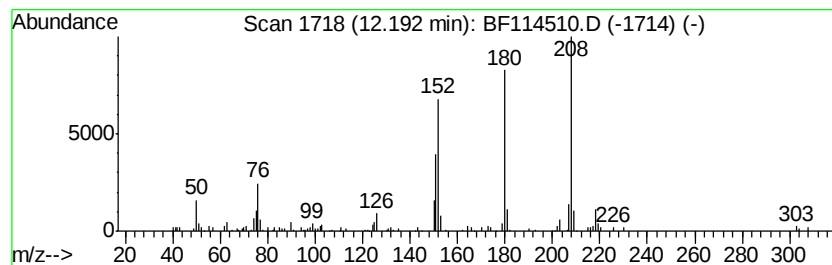
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 9,10-Anthracenedione Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.19	2.74 ng	217269	Phenanthrene-d10	11.36

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2			Benzo[c]cinnoline	180	C12H8N2	000230-17-1	86
3			9H-Fluoren-9-one	180	C13H8O	000486-25-9	62
4			1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
5			5,6-Dimethyl-1,10-phenanthroline	208	C14H12N2	003002-81-1	58



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114510.D
Acq On : 23 May 2019 3:25
Operator : JU/SJ
Sample : K2642-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OK-01-052119

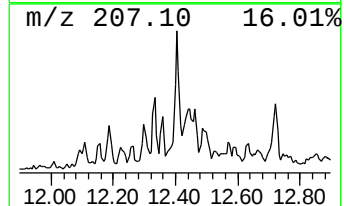
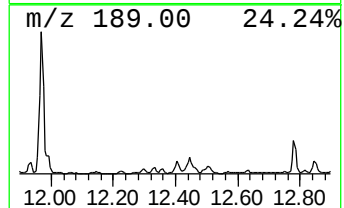
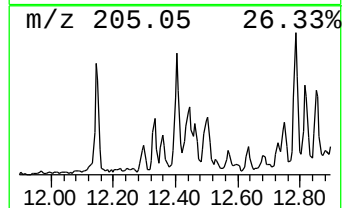
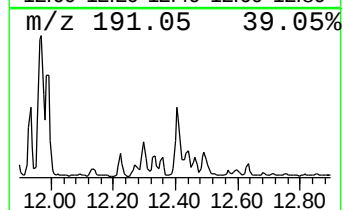
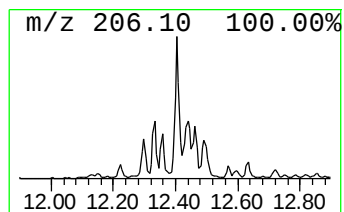
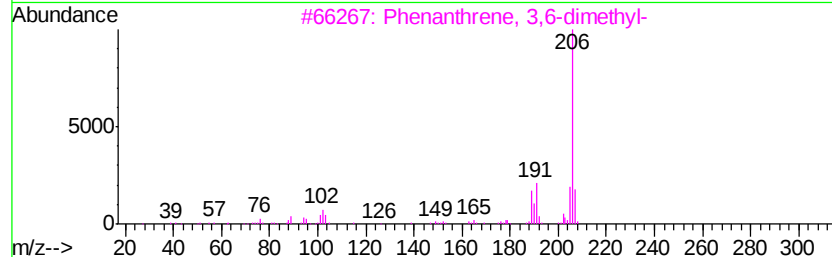
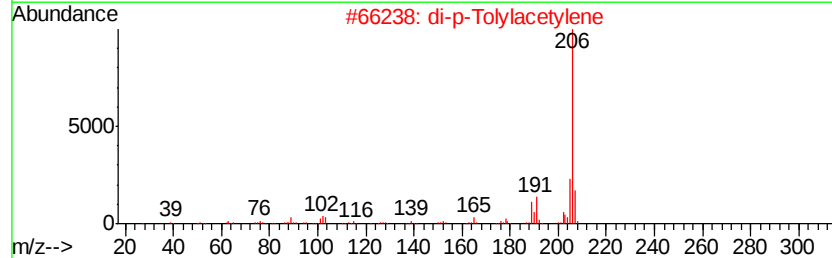
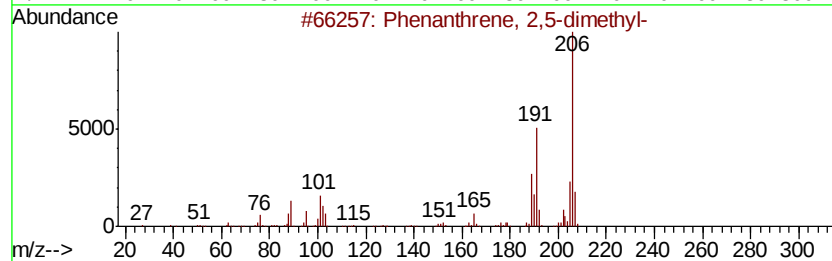
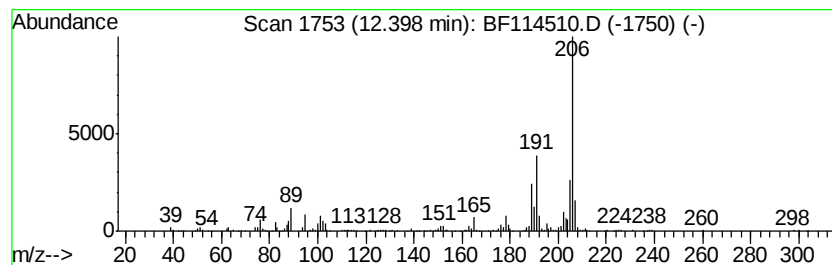
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	5.26 ng	416214	Phenanthrene-d10	11.36

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2		di-p-Tolylacetylene	206	C16H14	002789-88-0	91
3		Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87
4		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87
5		Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	86



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114510.D
Acq On : 23 May 2019 3:25
Operator : JU/SJ
Sample : K2642-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OK-01-052119

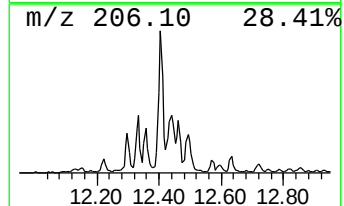
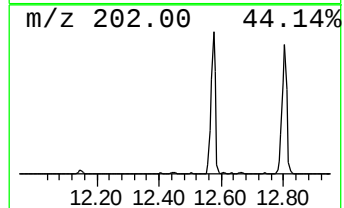
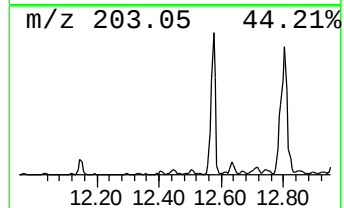
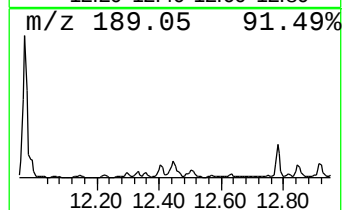
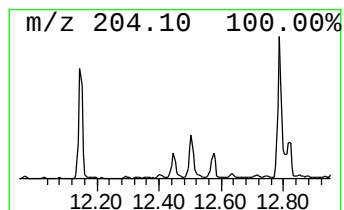
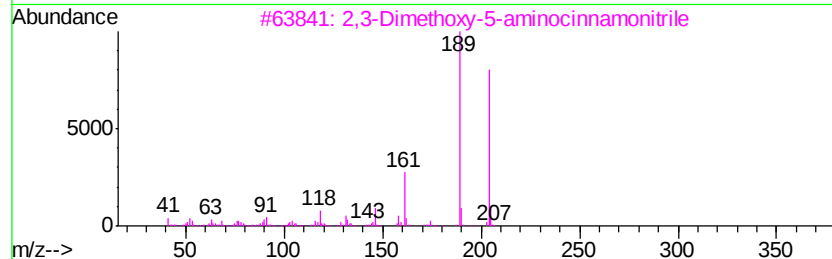
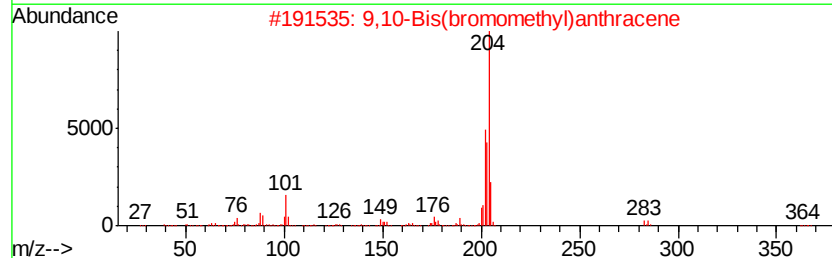
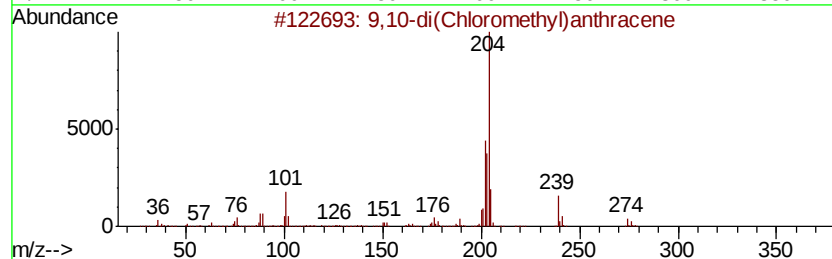
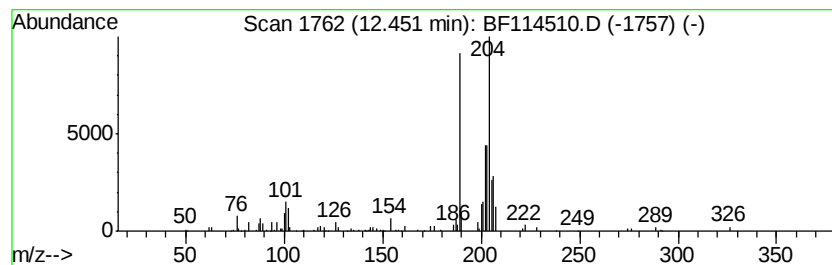
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 9,10-di(Chloromethyl)anthra... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.45	3.65 ng	288803	Phenanthrene-d10	11.36

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	52
2		9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	47
3		2,3-Dimethoxy-5-aminocinnamionitrile	204	C11H12N2O2	1000214-46-5	38
4		Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	35
5		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	30



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114510.D
Acq On : 23 May 2019 3:25
Operator : JU/SJ
Sample : K2642-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

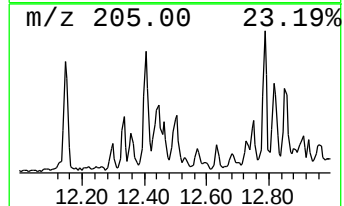
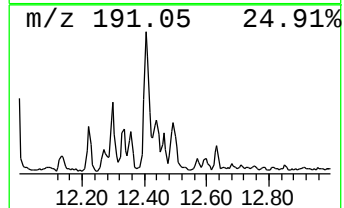
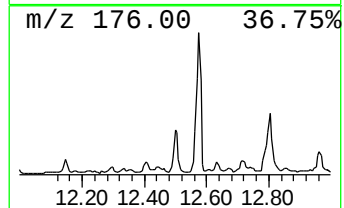
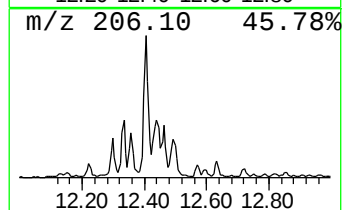
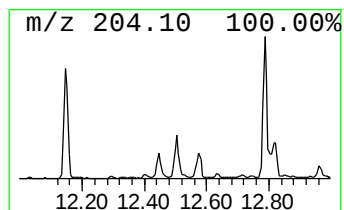
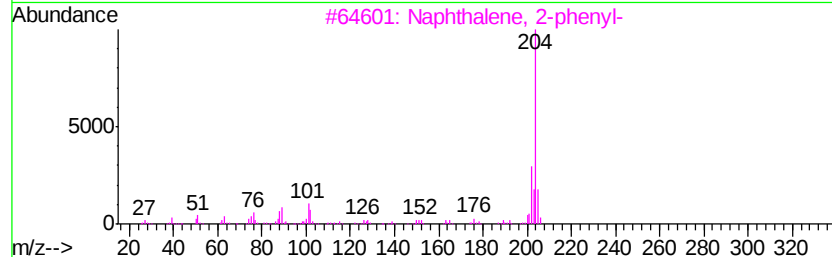
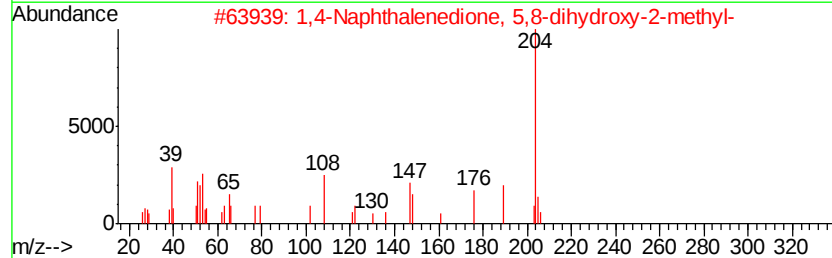
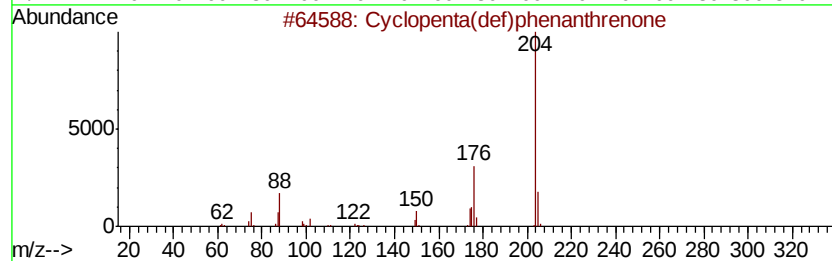
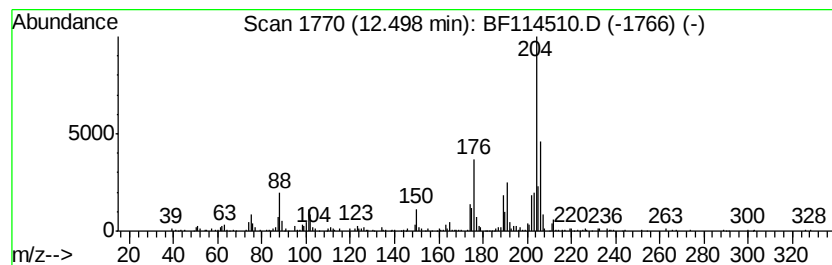
Instrument :
BNA_F
ClientSampleId :
OK-01-052119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Cyclopenta(def)phenanthrenone Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.		
12.50	3.96 ng	314002	Phenanthrene-d10	11.36		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Cvclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	91
2		1,4-Naphthalenedione, 5,8-dihydr...	204	C11H8O4	014554-09-7	53
3		Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	52
4		3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	50
5		[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	47



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114510.D
Acq On : 23 May 2019 3:25
Operator : JU/SJ
Sample : K2642-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

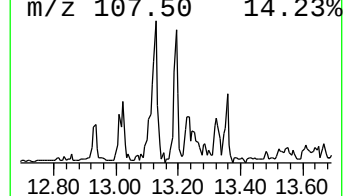
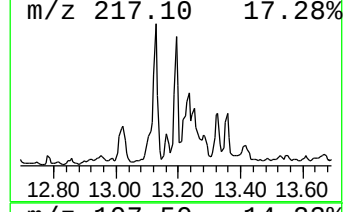
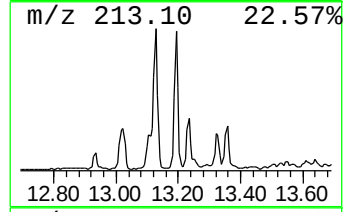
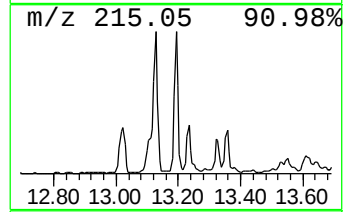
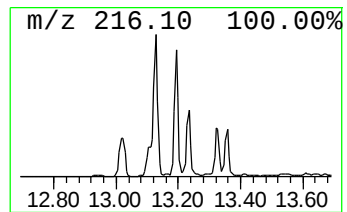
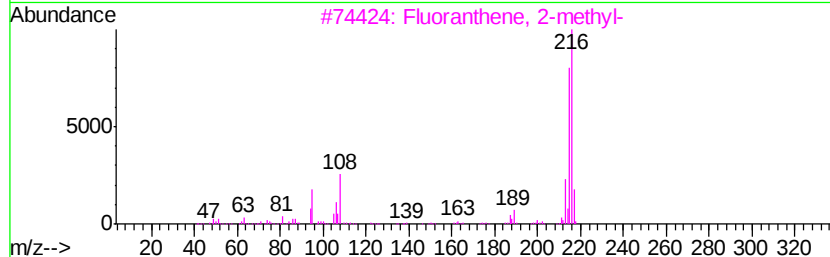
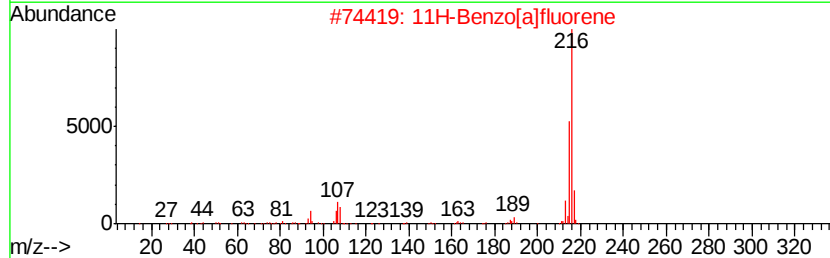
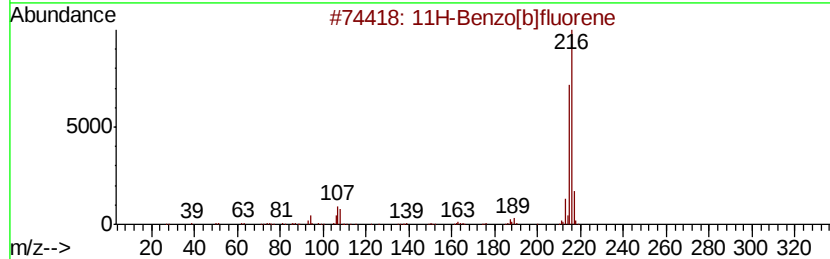
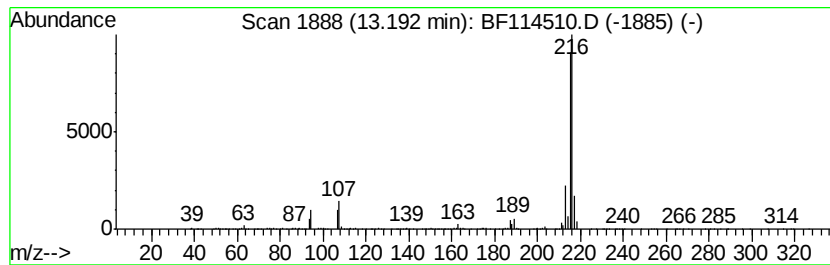
Instrument :
BNA_F
ClientSampleId :
OK-01-052119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 11H-Benzo[b]fluorene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.19	3.52 ng	770413	Chrysene-d12	14.00	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114510.D
Acq On : 23 May 2019 3:25
Operator : JU/SJ
Sample : K2642-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

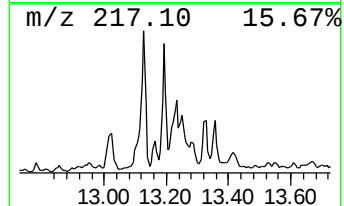
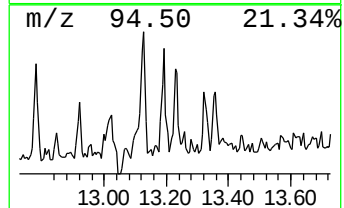
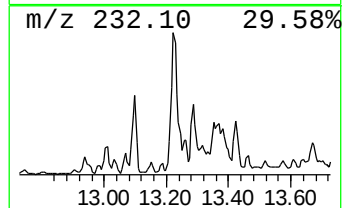
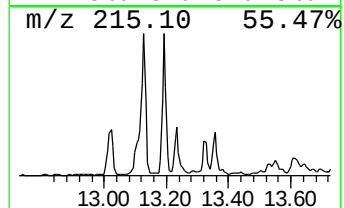
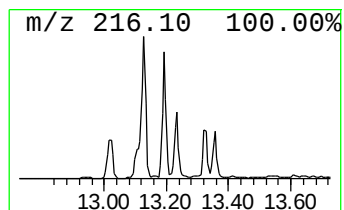
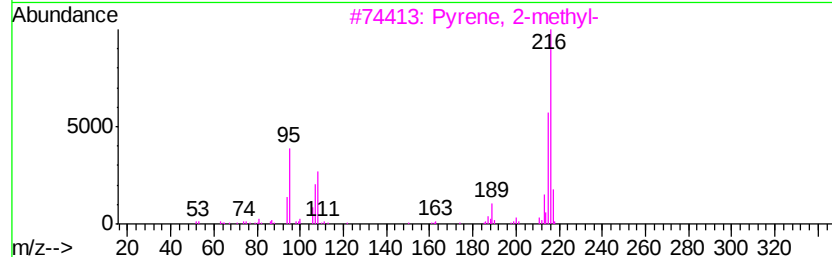
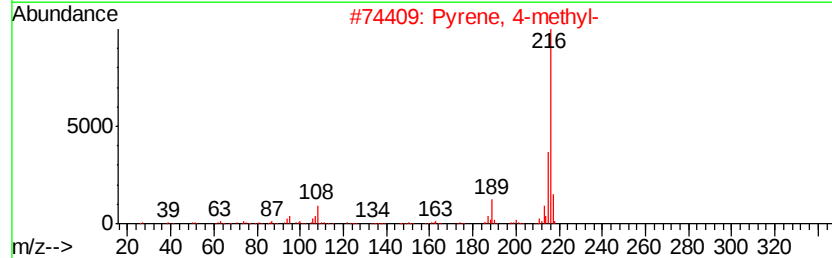
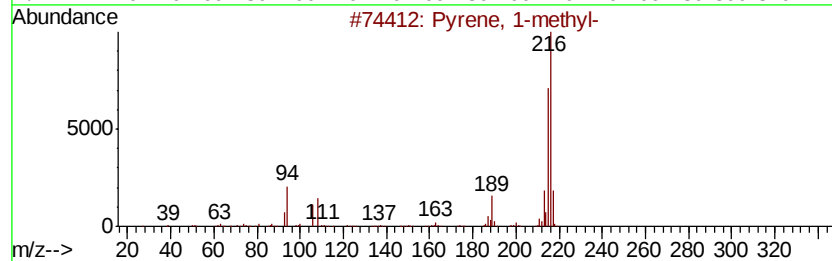
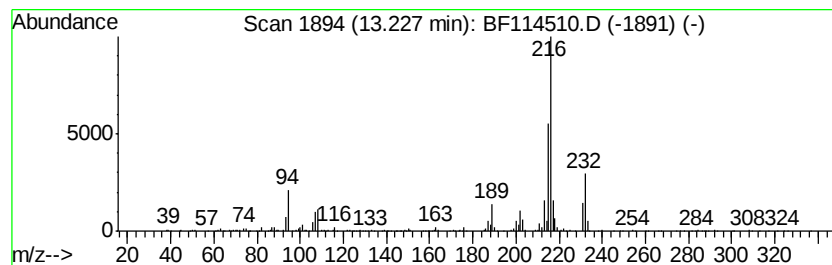
Instrument :
BNA_F
ClientSampleId :
OK-01-052119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Pyrene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD		R.T.	
13.23	3.22 ng	704864	Chrysene-d12		14.00	
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2		Pyrene, 4-methyl-	216	C17H12	003353-12-6	95
3		Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
4		11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5		Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF052219\
Data File : BF114510.D
Acq On : 23 May 2019 3:25
Operator : JU/SJ
Sample : K2642-05 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OK-01-052119

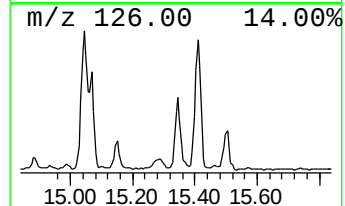
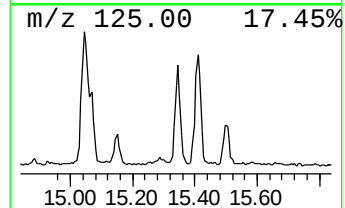
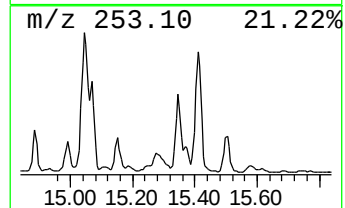
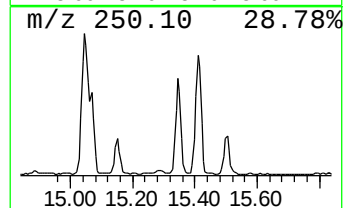
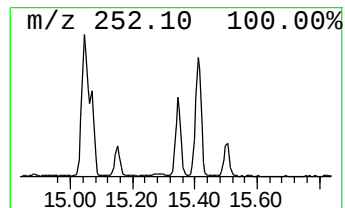
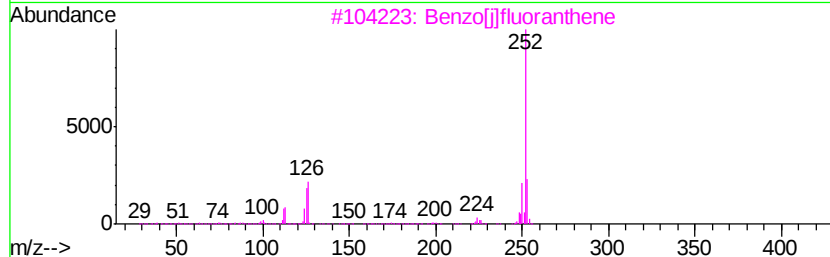
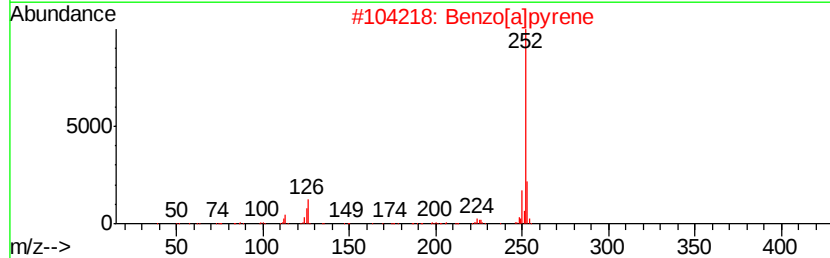
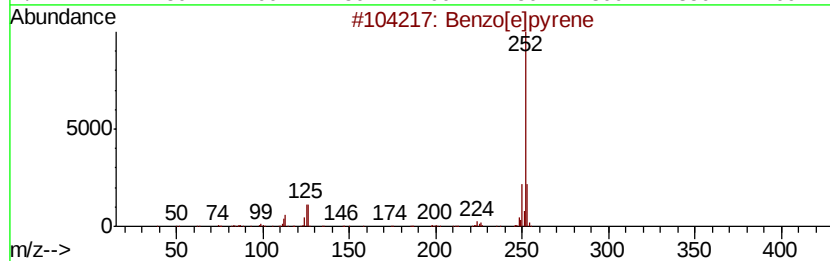
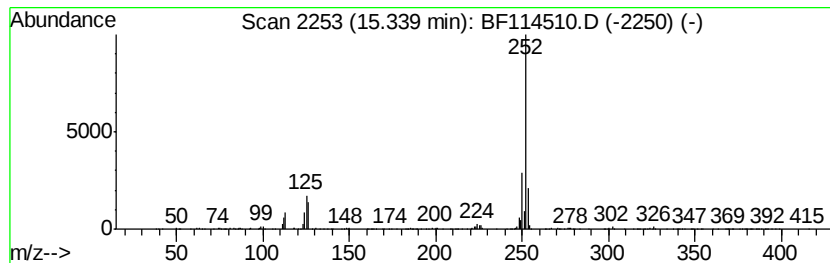
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF051019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.34	18.83 ng	1090180	Perylene-d12	15.47

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	96
3		Benzo[i]fluoranthene	252	C20H12	000205-82-3	95
4		Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	94
5		Benzo[k]fluoranthene	252	C20H12	000207-08-9	93



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF052219\
 Data File : BF114510.D
 Acq On : 23 May 2019 3:25
 Operator : JU/SJ
 Sample : K2642-05 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OK-01-052119

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF051019.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
unknown6.60	6.60	26.7	ng	1597210	1	6.83	1196130	20.0
Naphthalene, 1,6-...	9.45	2.8	ng	214679	3	9.87	1557650	20.0
Naphthalene, 2,3-...	9.53	3.6	ng	276927	3	9.87	1557650	20.0
9H-Fluorene, 2-me...	10.96	3.6	ng	285223	4	11.36	1583980	20.0
Dibenzothiophene	11.25	5.4	ng	427697	4	11.36	1583980	20.0
Phenanthrene, 2-m...	11.86	6.9	ng	548404	4	11.36	1583980	20.0
Phenanthrene, 1-m...	11.89	8.8	ng	700731	4	11.36	1583980	20.0
Anthracene, 2-met...	11.93	3.3	ng	259749	4	11.36	1583980	20.0
4H-Cyclopenta[def...	11.97	15.1	ng	1195870	4	11.36	1583980	20.0
Anthracene, 9-met...	11.99	4.0	ng	314283	4	11.36	1583980	20.0
Naphthalene, 2-ph...	12.15	5.1	ng	406297	4	11.36	1583980	20.0
9,10-Anthracenedione	12.19	2.7	ng	217269	4	11.36	1583980	20.0
Phenanthrene, 2,5...	12.40	5.3	ng	416214	4	11.36	1583980	20.0
9,10-di(Chloromet...	12.45	3.6	ng	288803	4	11.36	1583980	20.0
Cyclopenta(def)ph...	12.50	4.0	ng	314002	4	11.36	1583980	20.0
11H-Benzo[b]fluorene	13.19	3.5	ng	770413	5	14.00	4380360	20.0
Pyrene, 1-methyl-	13.23	3.2	ng	704864	5	14.00	4380360	20.0
Benzo[e]pyrene	15.34	18.8	ng	1090180	6	15.47	1157630	20.0