

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
 Data File : BF133567.D
 Acq On : 05 Jun 2023 15:57
 Operator : CG\JU
 Sample : 02988-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ORA-1644

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF133567.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.028	496	500	508	rVB	64255	69635	2.04%	0.149%
2	5.434	564	569	572	rBV	1843347	1777294	52.10%	3.809%
3	6.451	737	742	745	rBV	1784600	1724697	50.56%	3.697%
4	6.663	774	778	782	rBV3	54733	65187	1.91%	0.140%
5	6.828	803	806	813	rVB	1022033	846655	24.82%	1.815%
6	7.092	848	851	858	rBV	65131	100993	2.96%	0.216%
7	7.392	898	902	905	rVB	1275985	1045122	30.64%	2.240%
8	8.110	1021	1024	1027	rBV	1161844	1022080	29.96%	2.191%
9	8.133	1027	1028	1032	rVB	149607	88081	2.58%	0.189%
10	8.757	1128	1134	1139	rVV6	47932	96659	2.83%	0.207%
11	8.822	1143	1145	1149	rVB	124002	103813	3.04%	0.223%
12	8.922	1159	1162	1167	rVB	121833	104527	3.06%	0.224%
13	9.186	1204	1207	1211	rVB	2341937	1916389	56.18%	4.107%
14	9.269	1218	1221	1223	rBV	85337	83871	2.46%	0.180%
15	9.457	1248	1253	1256	rVV2	72241	97109	2.85%	0.208%
16	9.527	1261	1265	1267	rVV	155154	149129	4.37%	0.320%
17	9.551	1267	1269	1271	rVV	99521	68751	2.02%	0.147%
18	9.592	1271	1276	1278	rVV2	202686	230215	6.75%	0.493%
19	9.645	1282	1285	1290	rVB	71186	84372	2.47%	0.181%
20	9.727	1296	1299	1303	rBV	592722	515058	15.10%	1.104%
21	9.804	1310	1312	1316	rVV2	90261	88293	2.59%	0.189%
22	9.869	1316	1323	1326	rVV	1222439	1015877	29.78%	2.177%
23	9.898	1326	1328	1332	rVB	198419	167048	4.90%	0.358%
24	9.974	1337	1341	1345	rVB2	58179	67628	1.98%	0.145%
25	10.027	1345	1350	1354	rBV4	42299	87948	2.58%	0.188%
26	10.069	1354	1357	1360	rVB	186708	163408	4.79%	0.350%
27	10.110	1361	1364	1366	rBV	99108	71439	2.09%	0.153%
28	10.180	1373	1376	1379	rBV2	97237	109240	3.20%	0.234%
29	10.274	1388	1392	1394	rBV4	83406	100949	2.96%	0.216%
30	10.304	1394	1397	1398	rVV2	107132	99524	2.92%	0.213%
31	10.322	1398	1400	1403	rVB	96288	71686	2.10%	0.154%
32	10.416	1413	1416	1422	rVB	271355	295716	8.67%	0.634%
33	10.480	1422	1427	1429	rBV3	63891	83000	2.43%	0.178%
34	10.521	1432	1434	1439	rVB2	129211	123522	3.62%	0.265%
35	10.580	1440	1444	1446	rBV2	129731	145361	4.26%	0.312%
36	10.651	1451	1456	1461	rBV	1086492	1093277	32.05%	2.343%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
 Data File : BF133567.D
 Acq On : 05 Jun 2023 15:57
 Operator : CG\JU
 Sample : 02988-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ORA-1644

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

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

Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	10.780	1472	1478	1483	rVB4	277452	434139	12.73%	0.930%
38	10.963	1505	1509	1512	rBV2	137526	176083	5.16%	0.377%
39	10.992	1512	1514	1517	rVV2	100277	100278	2.94%	0.215%
40	11.045	1521	1523	1526	rVB2	76707	64616	1.89%	0.138%
41	11.116	1533	1535	1540	rVB2	104508	85373	2.50%	0.183%
42	11.163	1540	1543	1546	rVB3	75685	80380	2.36%	0.172%
43	11.227	1551	1554	1556	rVV	144757	113204	3.32%	0.243%
44	11.251	1556	1558	1563	rVB2	276819	263856	7.73%	0.566%
45	11.357	1572	1576	1578	rBV	1053936	947851	27.78%	2.032%
46	11.380	1578	1580	1583	rVB	1719993	1286357	37.71%	2.757%
47	11.433	1585	1589	1591	rBV	680822	571000	16.74%	1.224%
48	11.463	1591	1594	1597	rVB2	136804	140457	4.12%	0.301%
49	11.586	1612	1615	1617	rBV3	103195	93465	2.74%	0.200%
50	11.657	1624	1627	1629	rBV	206714	174684	5.12%	0.374%
51	11.686	1629	1632	1635	rVB	228235	175033	5.13%	0.375%
52	11.768	1643	1646	1650	rVB	149948	159140	4.66%	0.341%
53	11.816	1651	1654	1655	rBV2	68686	74862	2.19%	0.160%
54	11.857	1658	1661	1664	rVV	562320	581952	17.06%	1.247%
55	11.886	1664	1666	1670	rVV	917370	743877	21.81%	1.594%
56	11.933	1671	1674	1677	rVV	271180	281860	8.26%	0.604%
57	11.968	1677	1680	1683	rVV	977749	1131937	33.18%	2.426%
58	11.992	1683	1684	1689	rVB	498679	317426	9.30%	0.680%
59	12.063	1693	1696	1698	rVV	165328	158649	4.65%	0.340%
60	12.092	1698	1701	1703	rVB2	179644	156725	4.59%	0.336%
61	12.157	1709	1712	1714	rBV2	280754	274180	8.04%	0.588%
62	12.174	1714	1715	1722	rVB2	253823	276581	8.11%	0.593%
63	12.286	1731	1734	1735	rBV	161367	142323	4.17%	0.305%
64	12.304	1735	1737	1740	rVV	196513	171181	5.02%	0.367%
65	12.333	1740	1742	1744	rVV	311271	268520	7.87%	0.576%
66	12.357	1744	1746	1749	rVB2	243905	205625	6.03%	0.441%
67	12.410	1751	1755	1758	rBV	767443	756394	22.17%	1.621%
68	12.445	1758	1761	1763	rVV2	486077	555125	16.27%	1.190%
69	12.492	1767	1769	1774	rBV3	321949	486821	14.27%	1.043%
70	12.533	1774	1776	1779	rVB	129831	103537	3.04%	0.222%
71	12.574	1779	1783	1786	rBV	2611154	2370749	69.49%	5.081%
72	12.615	1788	1790	1792	rVV2	176951	189548	5.56%	0.406%
73	12.668	1796	1799	1802	rVV2	241922	257101	7.54%	0.551%
74	12.721	1806	1808	1812	rVV3	241606	311653	9.14%	0.668%
75	12.804	1816	1822	1828	rVV	2730001	3411433	100.00%	7.312%
76	12.863	1828	1832	1835	rVB2	278442	317537	9.31%	0.681%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
 Data File : BF133567.D
 Acq On : 05 Jun 2023 15:57
 Operator : CG\JU
 Sample : 02988-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ORA-1644

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

77	12.915	1838	1841	1843	rVV2	190454	213070	6.25%	0.457%
78	12.945	1843	1846	1853	rVB	1833611	1942509	56.94%	4.163%
79	13.021	1855	1859	1862	rVV3	412807	572079	16.77%	1.226%
80	13.074	1866	1868	1870	rVV2	178776	163919	4.80%	0.351%
81	13.110	1870	1874	1875	rVV3	387043	474992	13.92%	1.018%
82	13.127	1875	1877	1881	rVB	673040	682612	20.01%	1.463%
83	13.198	1886	1889	1892	rVB	494805	436206	12.79%	0.935%
84	13.233	1892	1895	1899	rBV2	669441	716159	20.99%	1.535%
85	13.327	1908	1911	1914	rVV	530673	423229	12.41%	0.907%
86	13.357	1914	1916	1919	rVV	548045	463745	13.59%	0.994%
87	13.392	1920	1922	1926	rVB4	204886	206928	6.07%	0.444%
88	13.751	1978	1983	1986	rBV2	404357	609570	17.87%	1.306%
89	13.780	1986	1988	1990	rVV	248263	175751	5.15%	0.377%
90	13.804	1990	1992	1995	rVV2	152330	153319	4.49%	0.329%
91	13.998	2021	2025	2028	rBV2	1357402	1894928	55.55%	4.061%
92	14.033	2028	2031	2037	rVB	1020927	1125820	33.00%	2.413%
93	14.086	2038	2040	2042	rBV	174270	146292	4.29%	0.314%
94	14.392	2090	2092	2095	rVB2	389233	317588	9.31%	0.681%
95	14.427	2095	2098	2100	rBV	263139	213462	6.26%	0.458%
96	14.515	2111	2113	2115	rBV	239712	231769	6.79%	0.497%
97	15.045	2199	2203	2211	rBV	640843	1234704	36.19%	2.646%
98	15.345	2251	2254	2260	rVB	503666	649865	19.05%	1.393%
99	15.409	2261	2265	2271	rBV	664757	877182	25.71%	1.880%
100	15.468	2272	2275	2278	rBV	324201	346320	10.15%	0.742%

Sum of corrected areas: 46657083

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
Data File : BF133567.D
Acq On : 05 Jun 2023 15:57
Operator : CG\JU
Sample : 02988-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ORA-1644

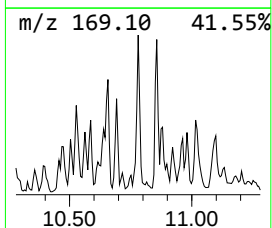
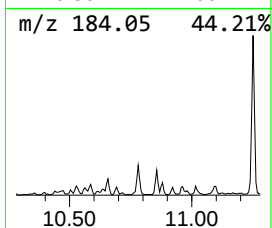
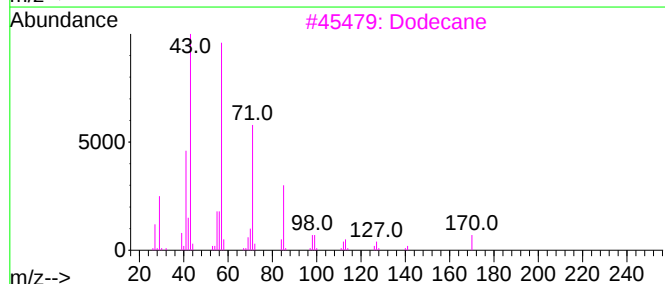
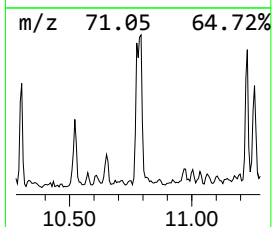
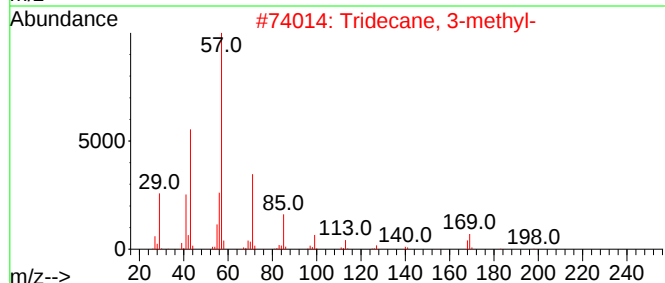
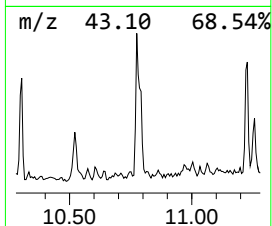
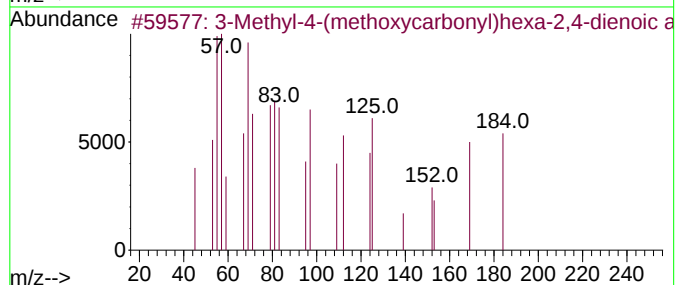
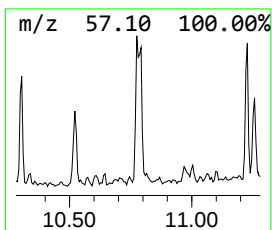
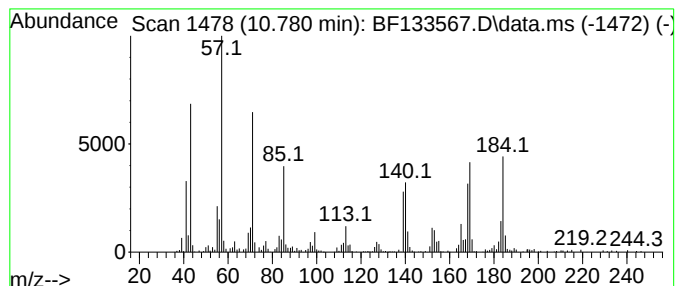
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 3-Methyl-4-(methoxycarbonyl... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.780	9.16 ng	434139	Phenanthrene-d10	11.357

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		3-Methyl-4-(methoxycarbonyl)hexa...	184	C9H12O4	1010104-10-8	89
2		Tridecane, 3-methyl-	198	C14H30	006418-41-3	60
3		Dodecane	170	C12H26	000112-40-3	47
4		Decane, 2-methyl-	156	C11H24	006975-98-0	35
5		Hexadecane, 1-iodo-	352	C16H33I	000544-77-4	25



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
Data File : BF133567.D
Acq On : 05 Jun 2023 15:57
Operator : CG\JU
Sample : 02988-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ORA-1644

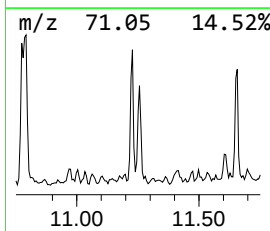
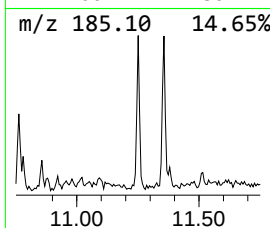
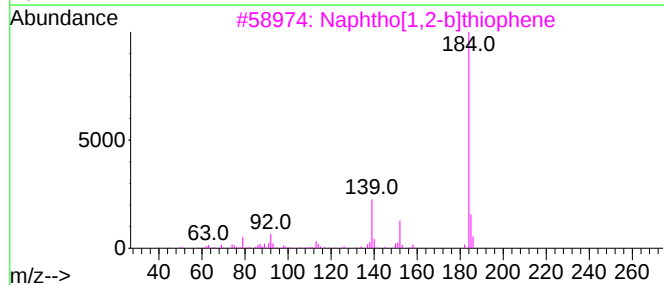
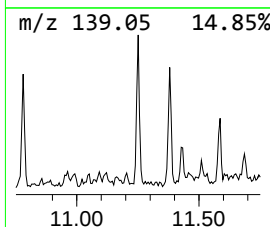
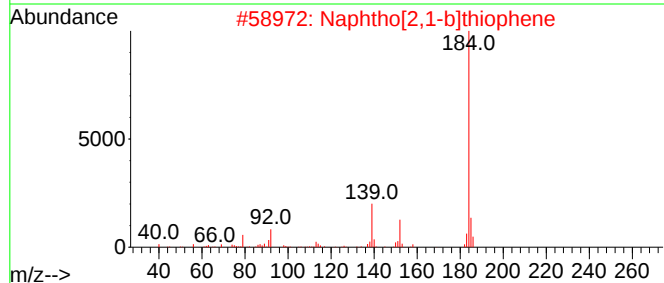
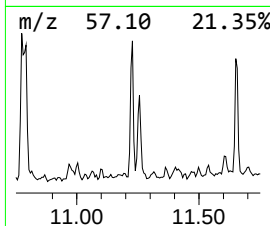
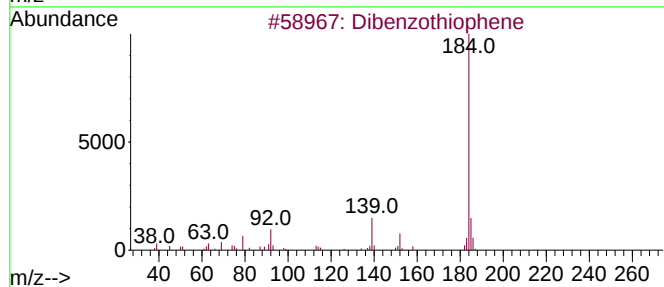
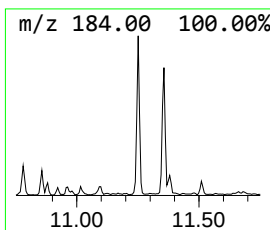
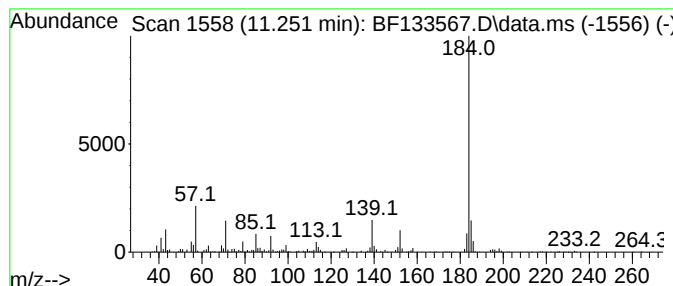
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Dibenzothiophene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.251	5.57 ng	263856	Phenanthrene-d10	11.357

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Dibenzothiophene	184	C12H8S	000132-65-0	95
2			Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	94
3			Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	93
4			1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	72
5			Naphthalene, 2-ethenyl-6-methoxy-	184	C13H12O	063444-51-9	72



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
Data File : BF133567.D
Acq On : 05 Jun 2023 15:57
Operator : CG\JU
Sample : 02988-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ORA-1644

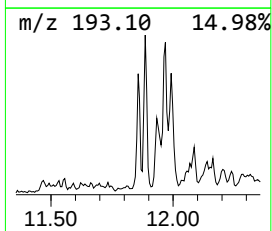
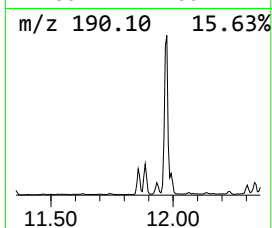
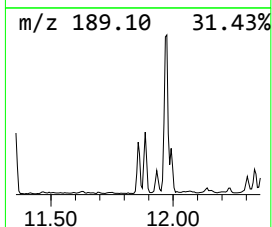
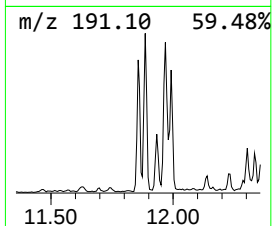
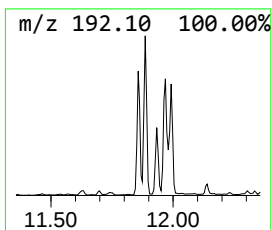
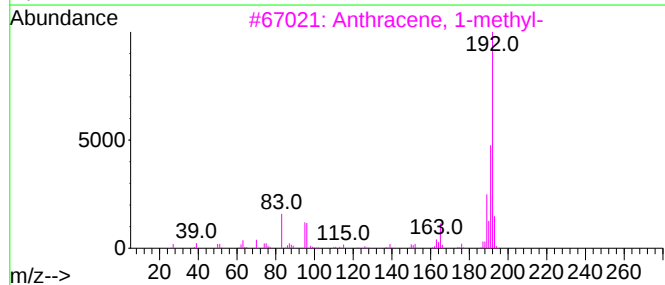
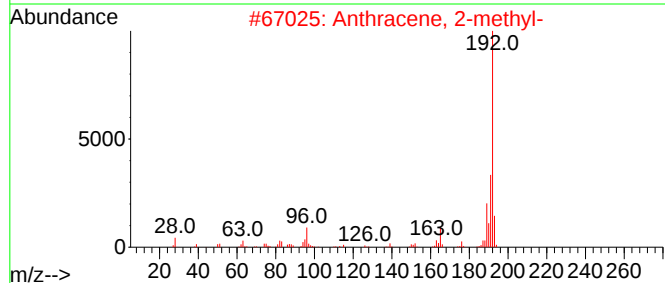
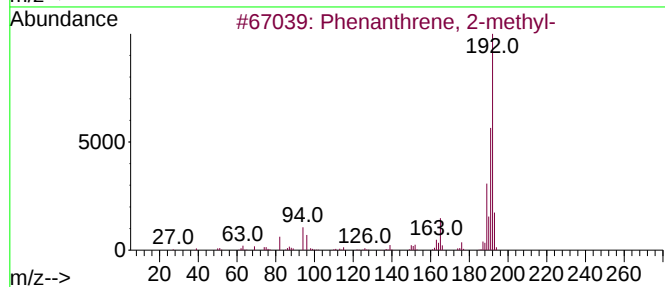
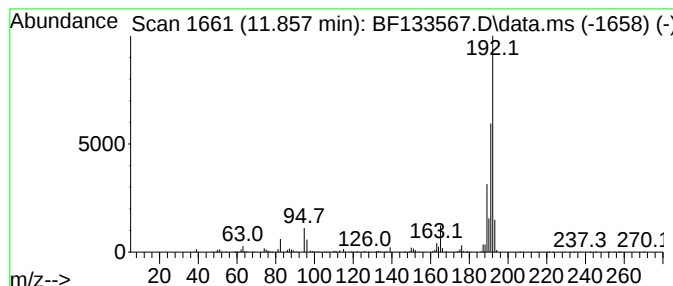
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.857	12.28 ng	581952	Phenanthrene-d10	11.357

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	94
3		Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
4		Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93
5		Anthracene, 9-methyl-	192	C15H12	000779-02-2	93



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
Data File : BF133567.D
Acq On : 05 Jun 2023 15:57
Operator : CG\JU
Sample : 02988-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ORA-1644

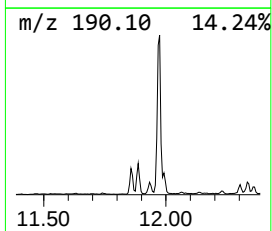
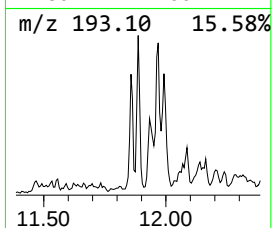
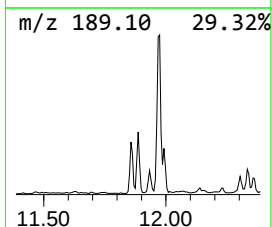
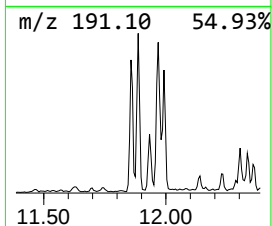
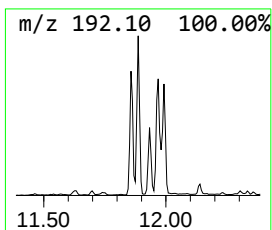
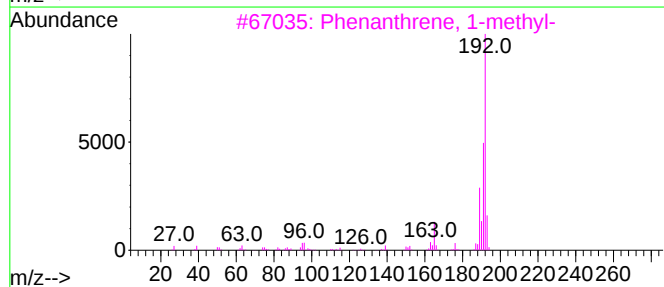
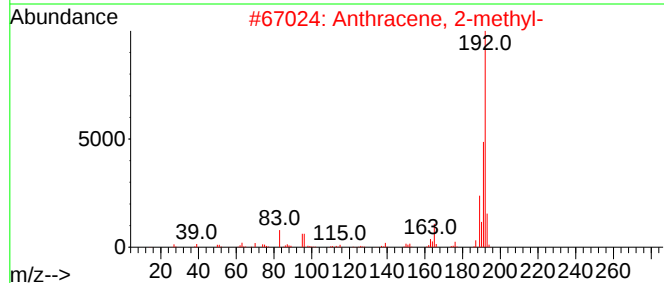
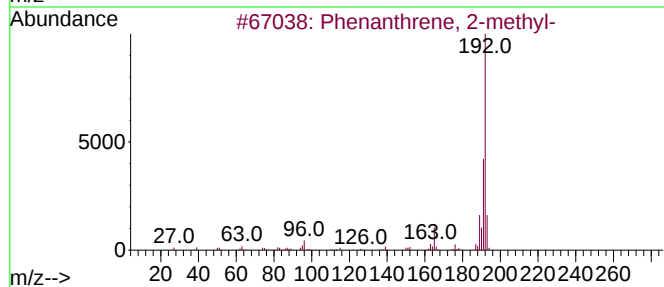
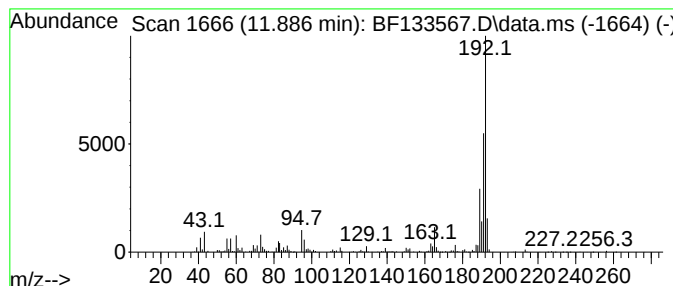
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Anthracene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.886	15.70 ng	743877	Phenanthrene-d10	11.357

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2			Anthracene, 2-methyl-	192	C15H12	000613-12-7	97
3			Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
4			1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95
5			1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	95



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
Data File : BF133567.D
Acq On : 05 Jun 2023 15:57
Operator : CG\JU
Sample : 02988-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ORA-1644

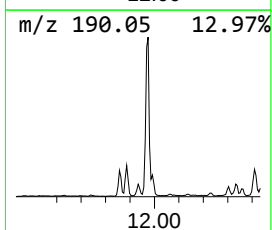
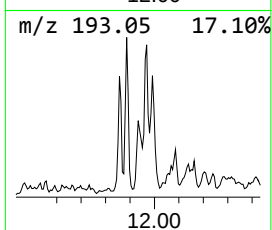
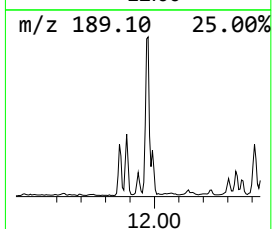
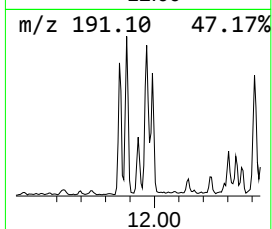
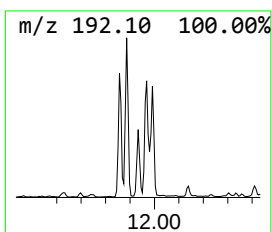
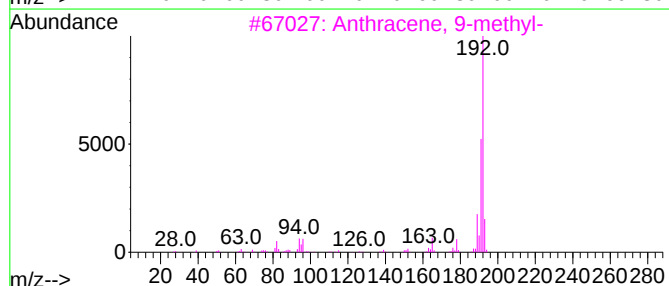
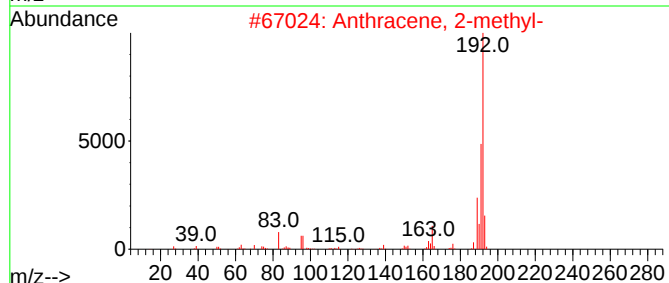
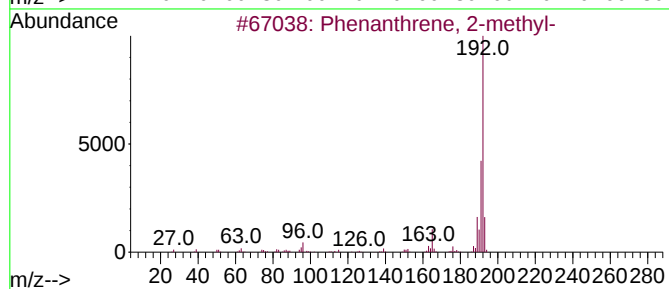
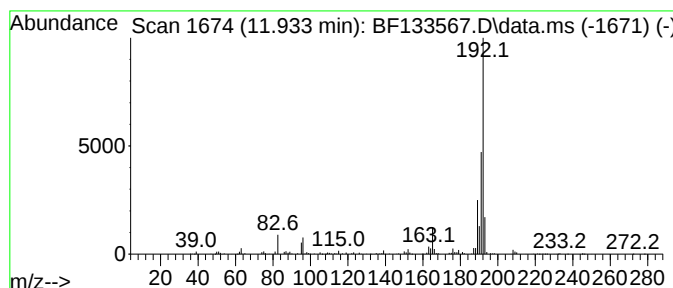
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Anthracene, 9-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.933	5.95 ng	281860	Phenanthrene-d10	11.357

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	95
3			Anthracene, 9-methyl-	192	C15H12	000779-02-2	94
4			1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	93
5			Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	91



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
Data File : BF133567.D
Acq On : 05 Jun 2023 15:57
Operator : CG\JU
Sample : 02988-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

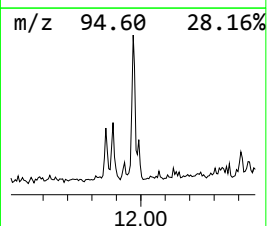
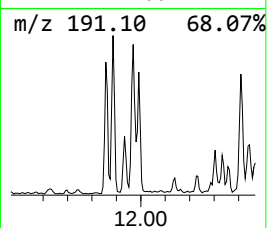
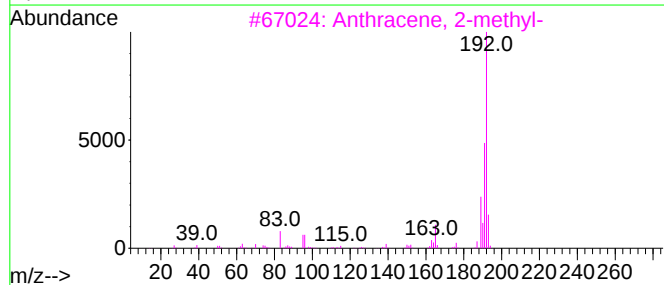
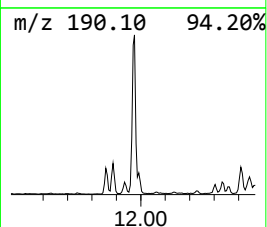
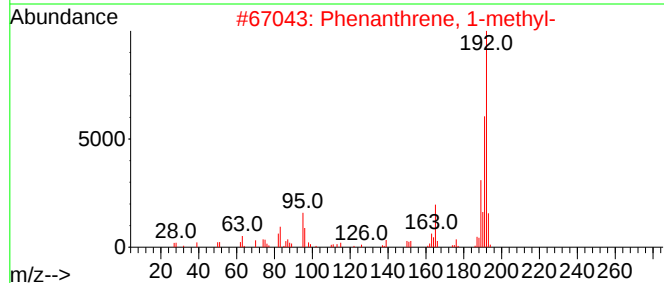
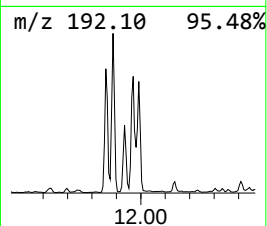
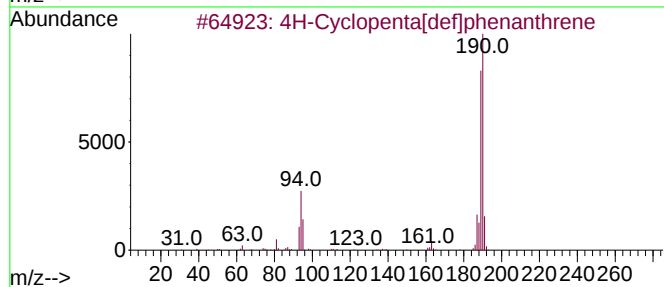
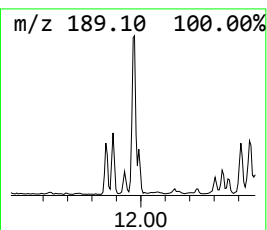
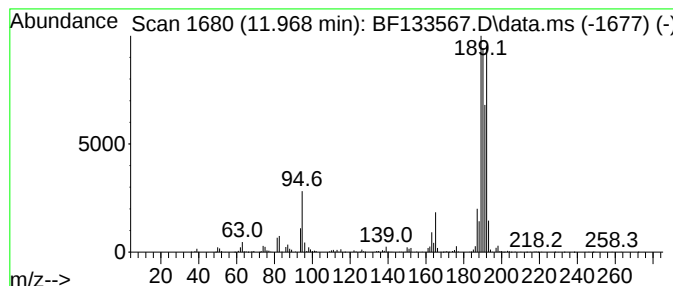
Instrument :
BNA_F
ClientSampleId :
ORA-1644

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD		R.T.	
11.969	23.88 ng	1131940	Phenanthrene-d10		11.357	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene		190	C15H10	000203-64-5	53
2	Phenanthrene, 1-methyl-		192	C15H12	000832-69-9	42
3	Anthracene, 2-methyl-		192	C15H12	000613-12-7	42
4	Anthracene, 1-methyl-		192	C15H12	000610-48-0	42
5	Phenanthrene, 2-methyl-		192	C15H12	002531-84-2	38



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
Data File : BF133567.D
Acq On : 05 Jun 2023 15:57
Operator : CG\JU
Sample : 02988-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ORA-1644

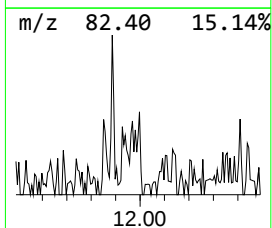
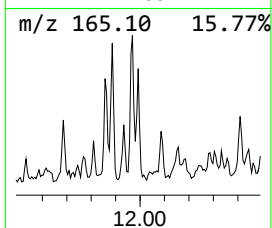
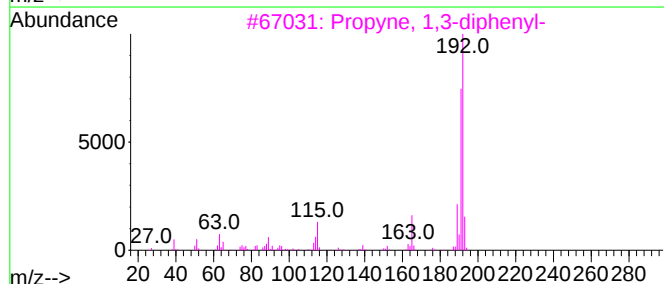
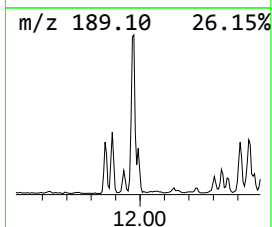
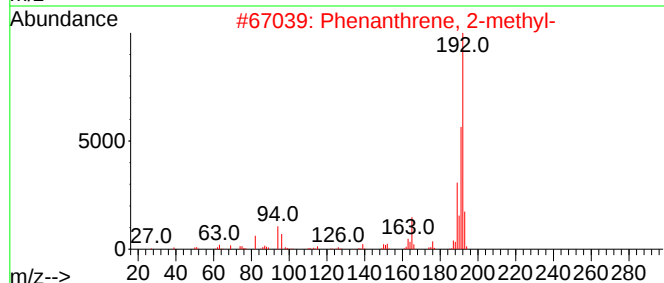
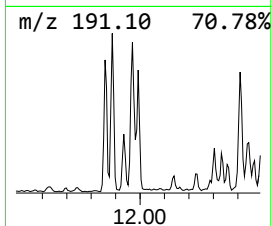
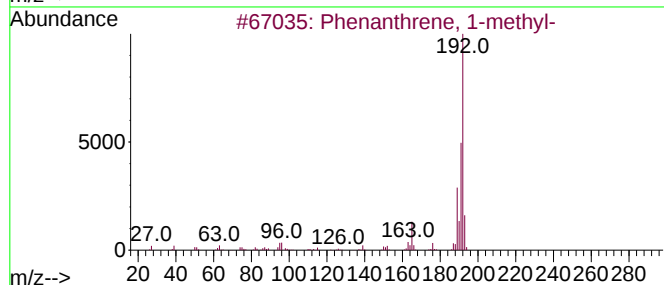
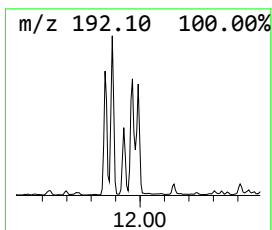
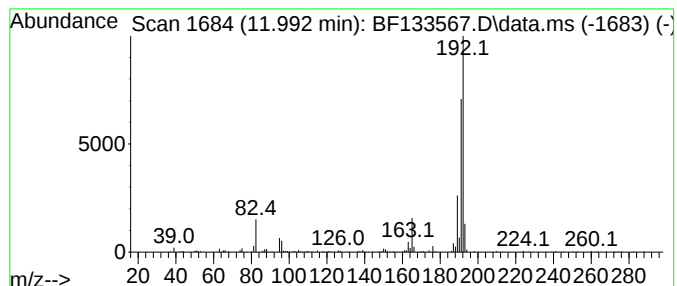
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.992	6.70 ng	317426	Phenanthrene-d10	11.357

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
2			Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	87
3			Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	87
4			5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	87
5			Naphtho[1,2-b]norbornadiene	192	C15H12	1000210-14-8	83



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
Data File : BF133567.D
Acq On : 05 Jun 2023 15:57
Operator : CG\JU
Sample : 02988-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ORA-1644

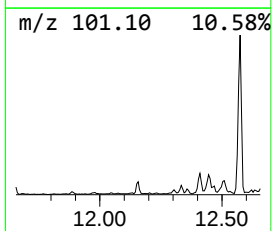
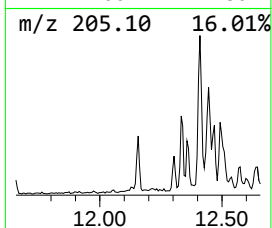
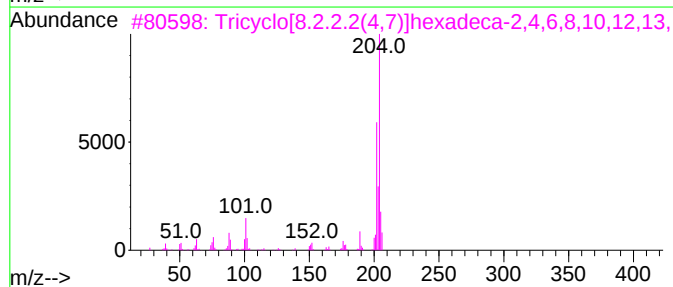
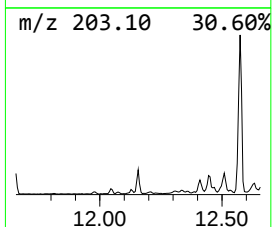
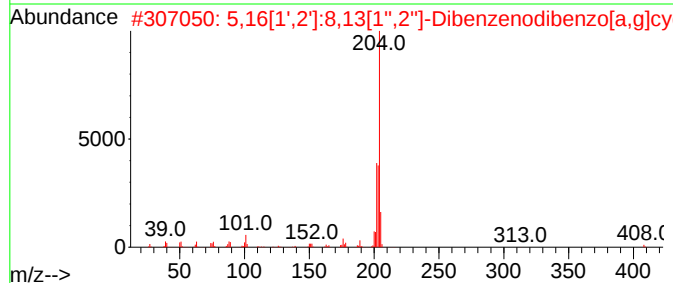
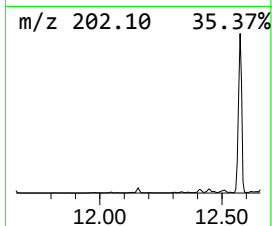
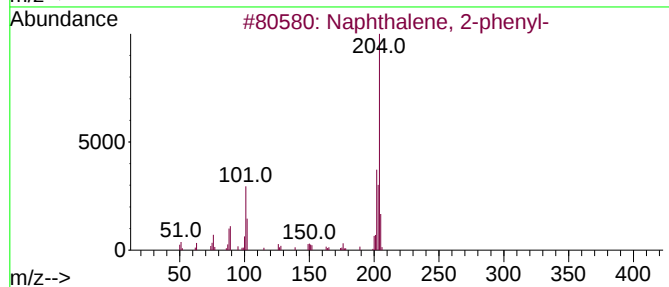
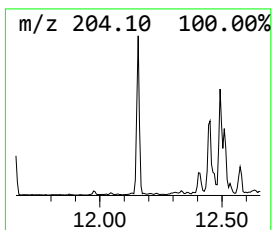
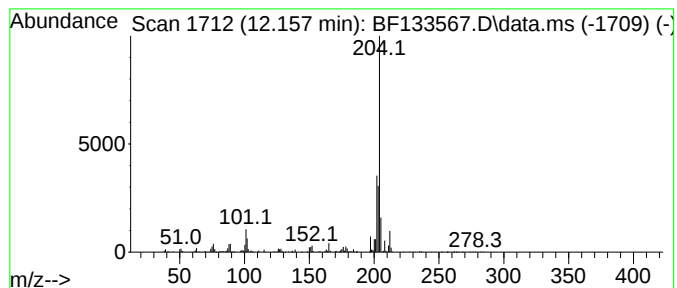
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 Naphthalene, 2-phenyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.157	5.79 ng	274180	Phenanthrene-d10	11.357

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
2			5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	80
3			Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	64
4			9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	52
5			9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	50



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
Data File : BF133567.D
Acq On : 05 Jun 2023 15:57
Operator : CG\JU
Sample : 02988-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ORA-1644

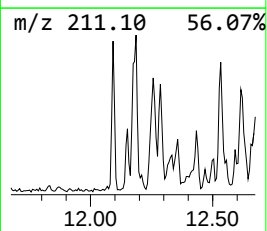
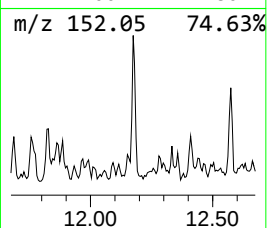
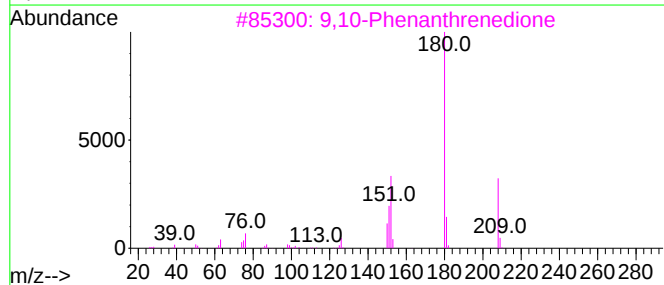
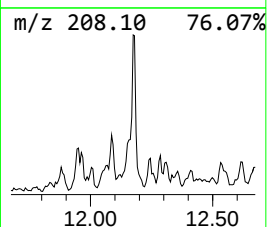
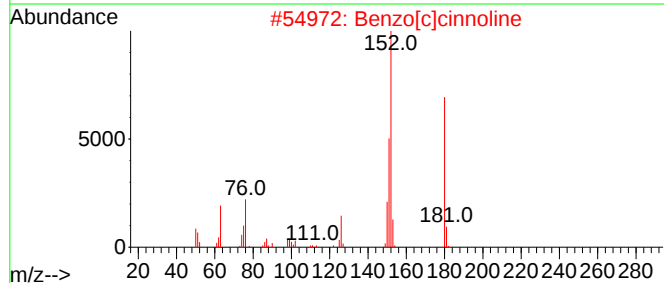
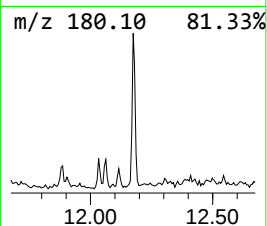
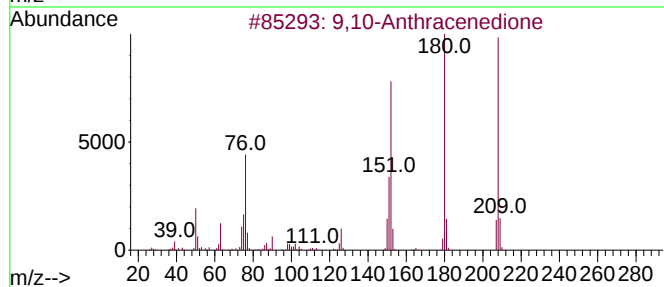
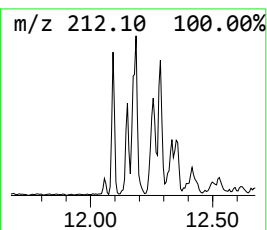
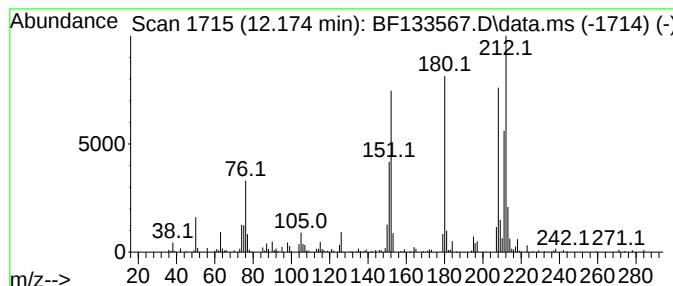
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 9,10-Anthracenedione Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.174	5.84 ng	276581	Phenanthrene-d10	11.357

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		9,10-Anthracenedione	208	C14H8O2	000084-65-1	96
2		Benzo[c]cinnoline	180	C12H8N2	000230-17-1	46
3		9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	46
4		1H-Phenalen-1-one	180	C13H8O	000548-39-0	42
5		1,4-Anthracenedione	208	C14H8O2	000635-12-1	38



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
Data File : BF133567.D
Acq On : 05 Jun 2023 15:57
Operator : CG\JU
Sample : 02988-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ORA-1644

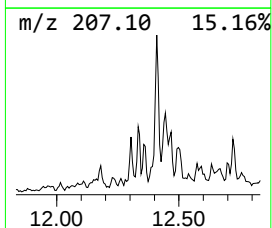
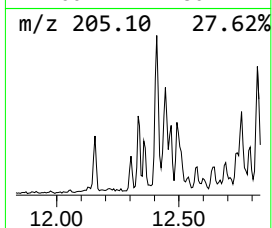
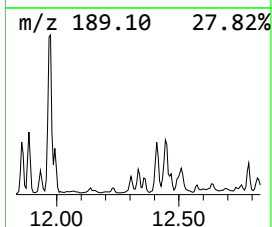
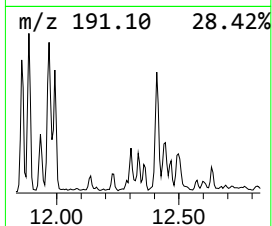
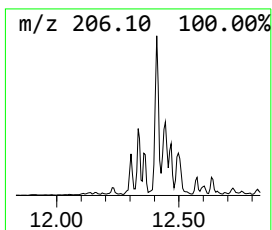
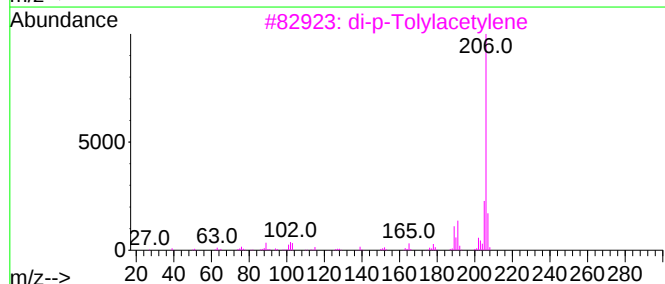
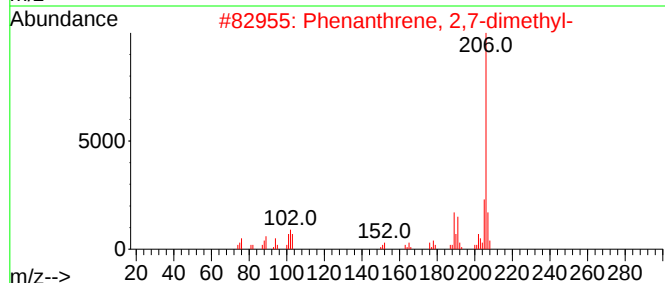
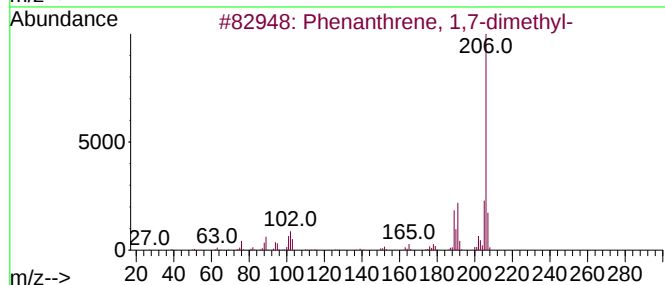
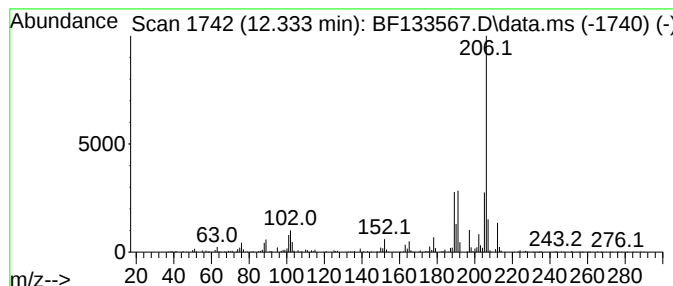
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 Phenanthrene, 1,7-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.333	5.67 ng	268520	Phenanthrene-d10	11.357

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
2			Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	93
3			di-p-Tolylacetylene	206	C16H14	002789-88-0	90
4			Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	89
5			Naphthalene, 1,2-dihydro-1-phenyl-	206	C16H14	016606-46-5	68



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
Data File : BF133567.D
Acq On : 05 Jun 2023 15:57
Operator : CG\JU
Sample : 02988-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

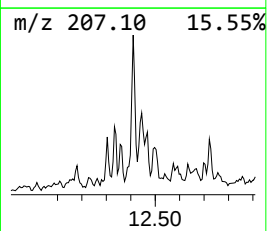
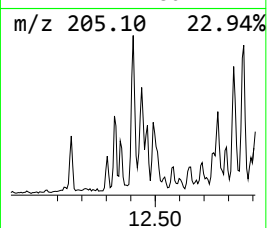
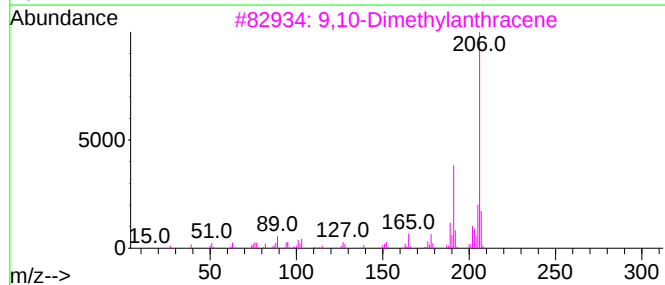
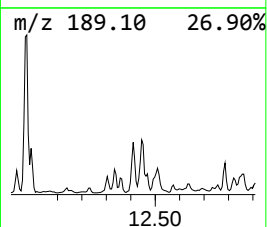
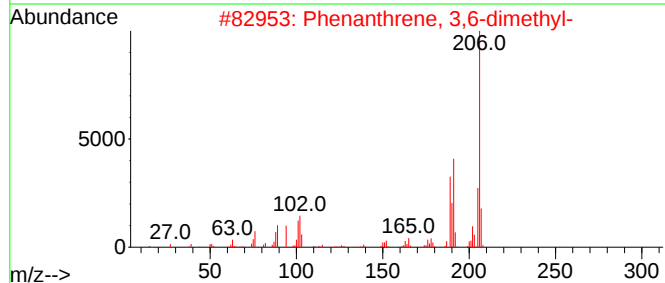
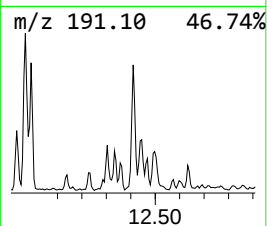
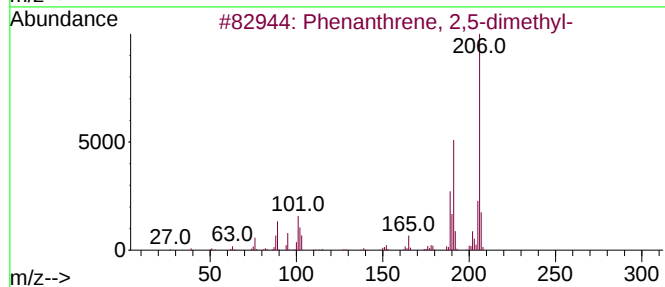
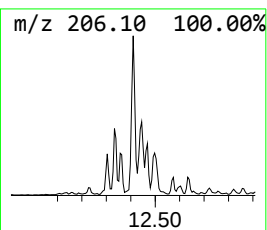
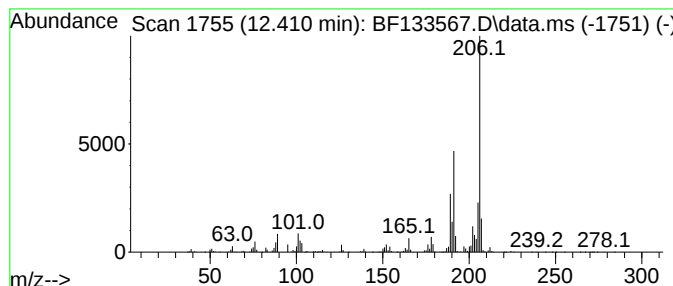
Instrument :
BNA_F
ClientSampleId :
ORA-1644

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 11 Phenanthrene, 2,5-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD		R.T.	
12.410	15.96 ng	756394	Phenanthrene-d10		11.357	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-		206	C16H14	003674-66-6	93
2	Phenanthrene, 3,6-dimethyl-		206	C16H14	001576-67-6	93
3	9,10-Dimethylanthracene		206	C16H14	000781-43-1	91
4	Phenanthrene, 2,3-dimethyl-		206	C16H14	003674-65-5	90
5	Anthracene, 1,4-dimethyl-		206	C16H14	000781-92-0	86



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
Data File : BF133567.D
Acq On : 05 Jun 2023 15:57
Operator : CG\JU
Sample : 02988-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

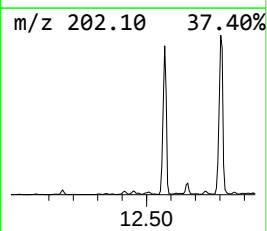
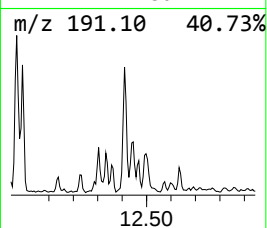
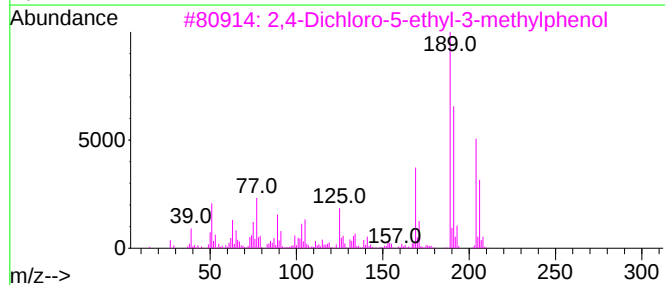
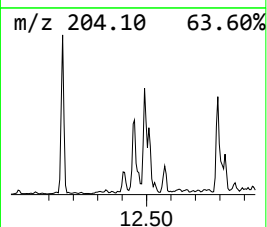
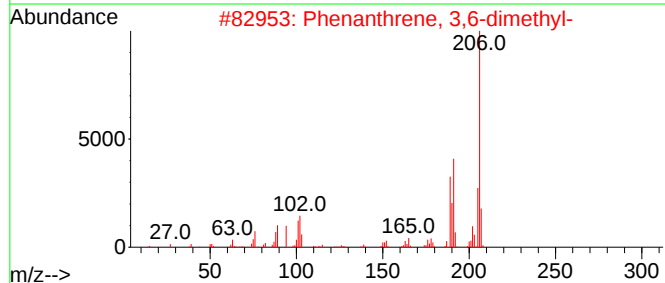
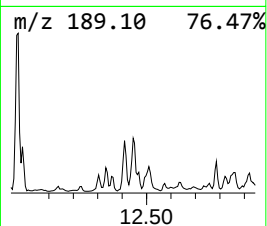
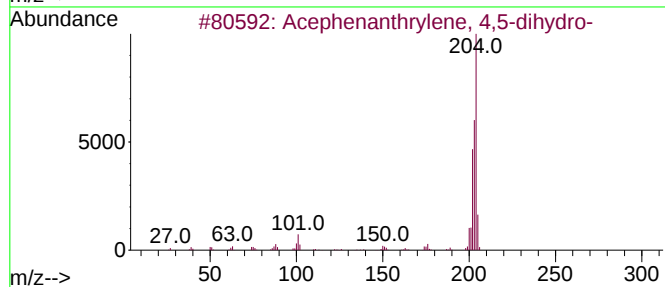
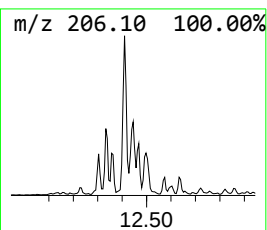
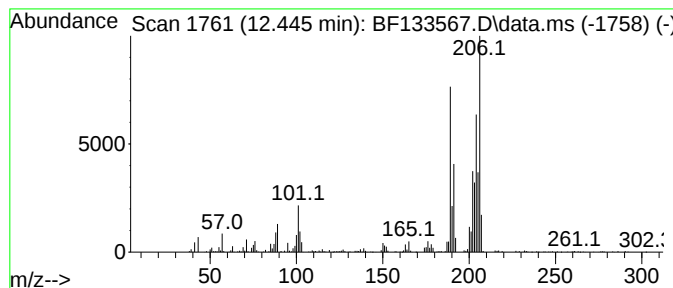
Instrument :
BNA_F
ClientSampleId :
ORA-1644

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 12 Acephenanthrylene, 4,5-dihy... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD		R.T.	
12.445	11.71 ng	555125	Phenanthrene-d10		11.357	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Acephenanthrylene, 4,5-dihydro-		204	C16H12	006232-48-0	55
2	Phenanthrene, 3,6-dimethyl-		206	C16H14	001576-67-6	55
3	2,4-Dichloro-5-ethyl-3-methylphenol		204	C9H10Cl2O	001570-75-8	46
4	Pyrene, 4,5,9,10-tetrahydro-		206	C16H14	000781-17-9	46
5	Phenanthrene, 2,3-dimethyl-		206	C16H14	003674-65-5	45



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
Data File : BF133567.D
Acq On : 05 Jun 2023 15:57
Operator : CG\JU
Sample : 02988-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

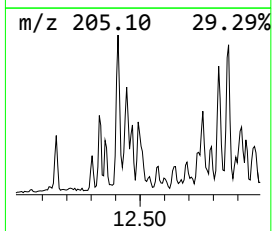
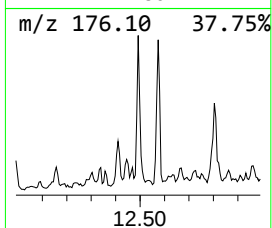
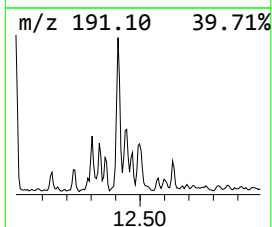
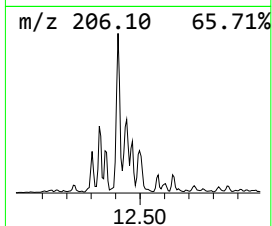
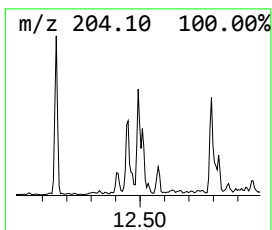
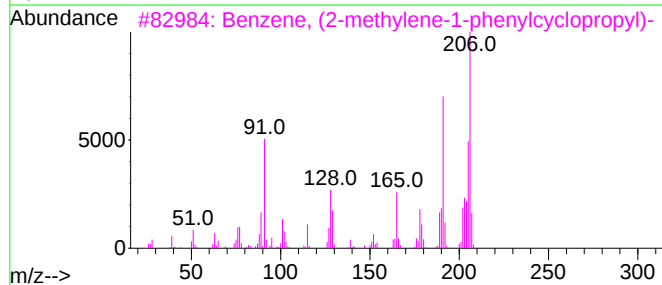
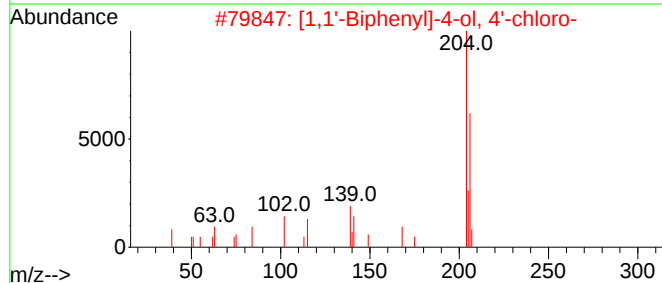
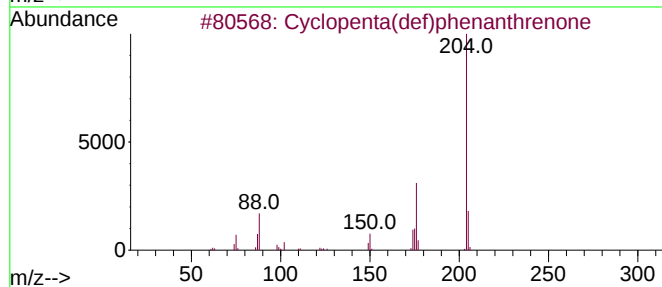
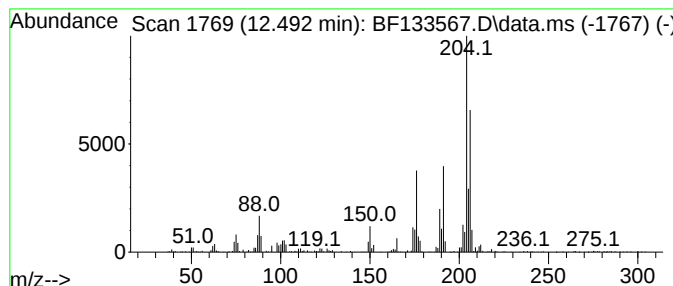
Instrument :
BNA_F
ClientSampleId :
ORA-1644

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.492	10.27 ng	486821	Phenanthrene-d10	11.357
Hit#	of 5	Tentative ID	MW MolForm	CAS# Qual
1		Cyclopenta(def)phenanthrenone	204 C15H8O	005737-13-3 89
2		[1,1'-Biphenyl]-4-ol, 4'-chloro-	204 C12H9ClO	028034-99-3 46
3		Benzene, (2-methylene-1-phenylcy...	206 C16H14	025152-47-0 46
4		1H-Indene, 2-methyl-3-phenyl-	206 C16H14	035099-60-6 43
5		[14]Annulene, 1,6:8,13-bis(metha...	206 C16H14	085385-68-8 42



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
Data File : BF133567.D
Acq On : 05 Jun 2023 15:57
Operator : CG\JU
Sample : 02988-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ORA-1644

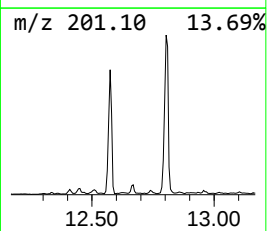
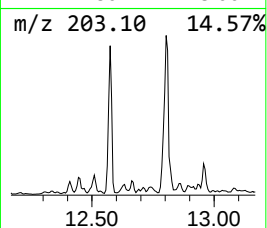
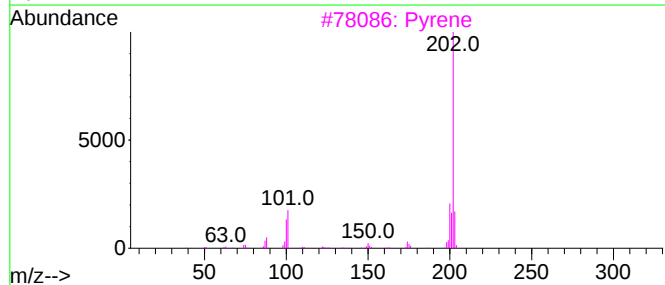
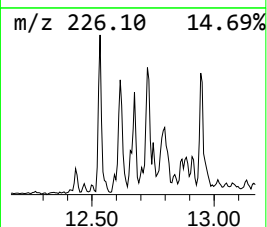
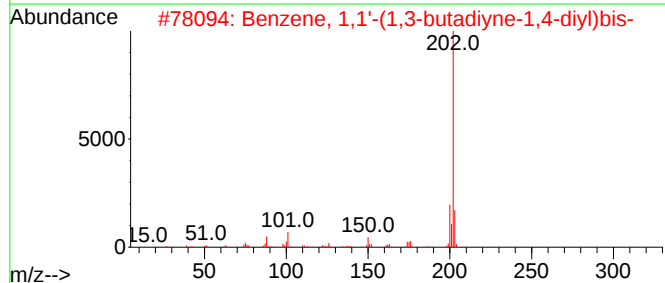
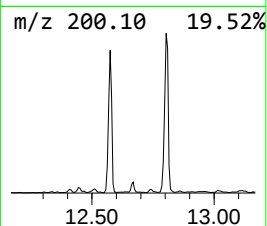
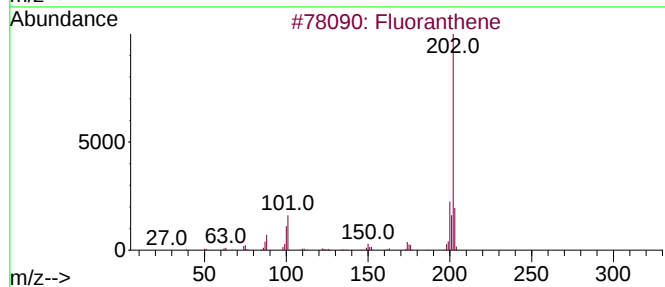
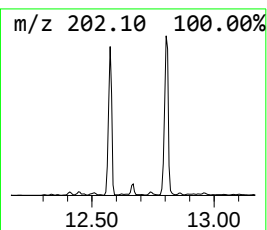
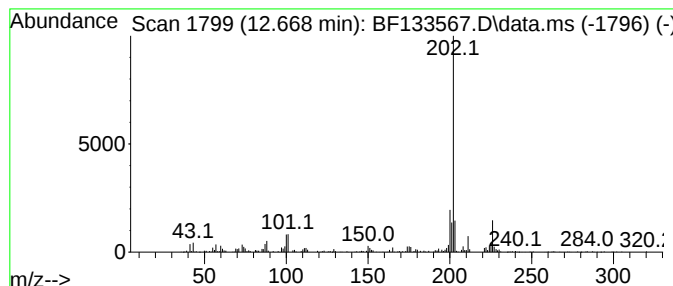
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 14 Benzene, 1,1'-(1,3-butadiyn... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.668	5.42 ng	257101	Phenanthrene-d10	11.357

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Fluoranthene	202	C16H10	000206-44-0	91
2			Benzene, 1,1'-(1,3-butadiyne-1,4...	202	C16H10	000886-66-8	64
3			Pyrene	202	C16H10	000129-00-0	60
4			l-Leucine, N-methyl-N-(2-methoxy...	457	C26H51NO5	1000328-54-9	47
5			l-Leucine, N-methyl-N-(2-methoxy...	471	C27H53NO5	1000328-55-0	47



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
Data File : BF133567.D
Acq On : 05 Jun 2023 15:57
Operator : CG\JU
Sample : 02988-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

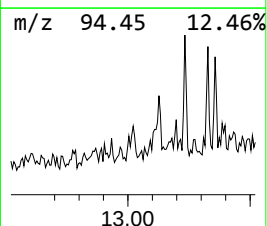
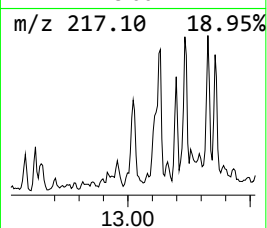
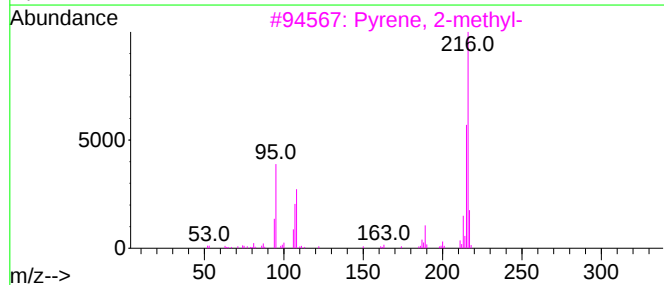
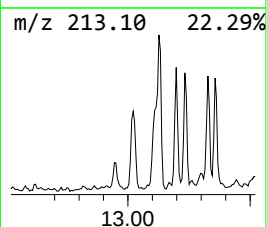
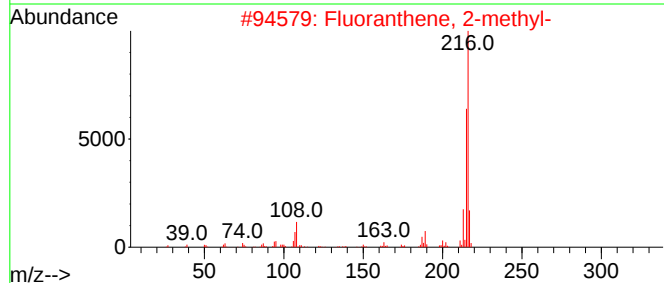
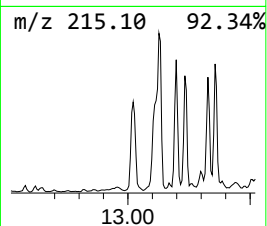
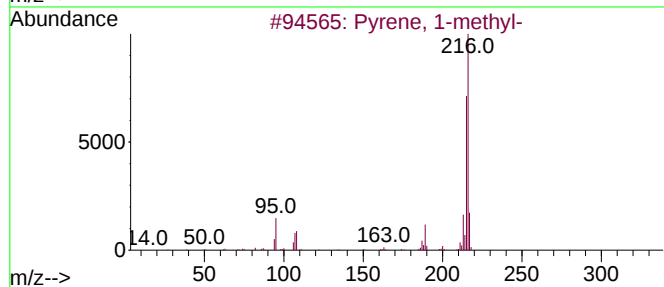
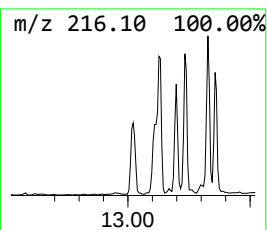
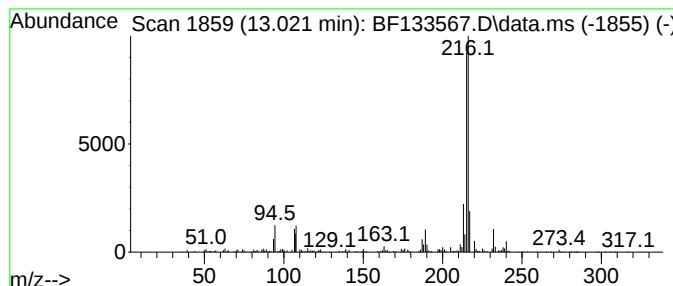
Instrument :
BNA_F
ClientSampleId :
ORA-1644

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 15 Pyrene, 1-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD		R.T.	
13.021	6.04 ng	572079	Chrysene-d12		14.004	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-		216	C17H12	002381-21-7	95
2	Fluoranthene, 2-methyl-		216	C17H12	033543-31-6	94
3	Pyrene, 2-methyl-		216	C17H12	003442-78-2	93
4	11H-Benzo[b]fluorene		216	C17H12	000243-17-4	81
5	7H-Benzo[c]fluorene		216	C17H12	000205-12-9	81



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
Data File : BF133567.D
Acq On : 05 Jun 2023 15:57
Operator : CG\JU
Sample : 02988-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ORA-1644

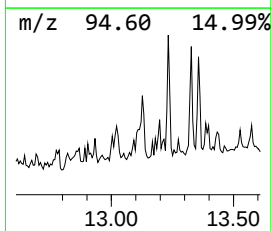
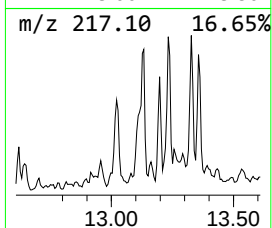
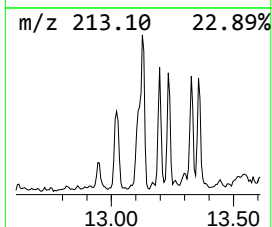
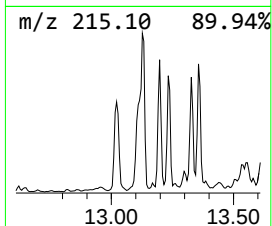
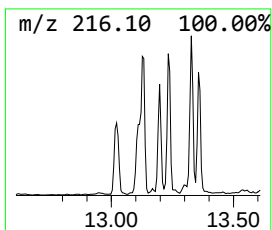
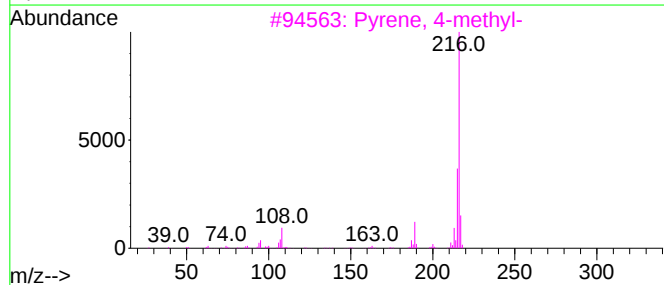
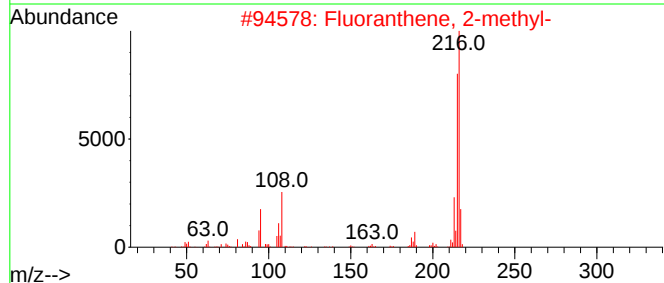
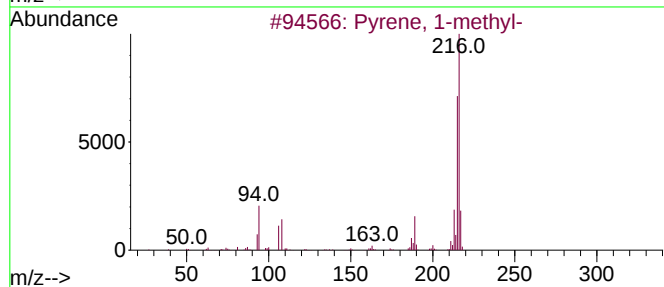
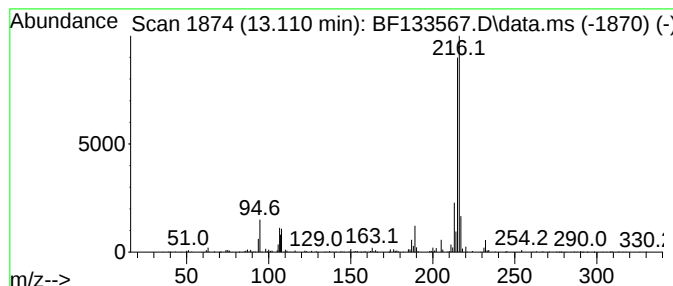
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 16 Fluoranthene, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.110	5.01 ng	474992	Chrysene-d12	14.004

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Pyrene, 1-methyl-	216	C17H12	002381-21-7	98
2		Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3		Pyrene, 4-methyl-	216	C17H12	003353-12-6	90
4		11H-Benzo[b]fluorene	216	C17H12	000243-17-4	83
5		11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
Data File : BF133567.D
Acq On : 05 Jun 2023 15:57
Operator : CG\JU
Sample : 02988-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ORA-1644

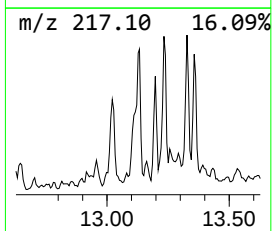
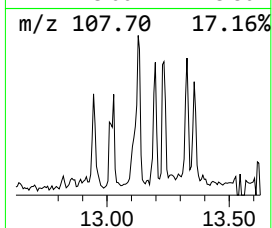
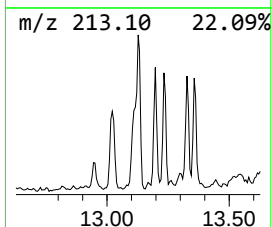
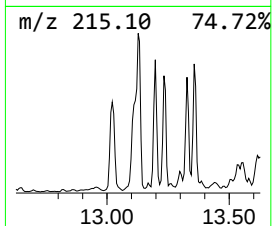
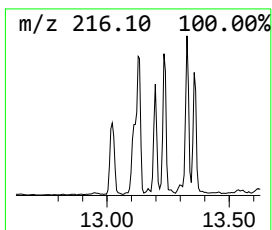
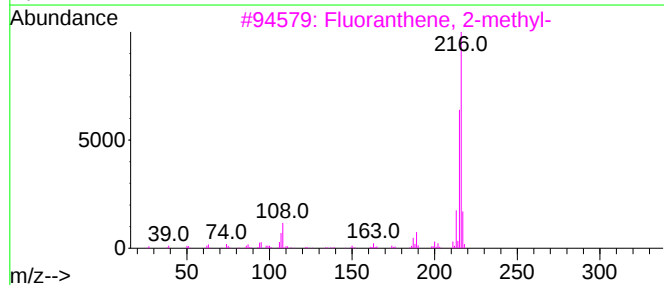
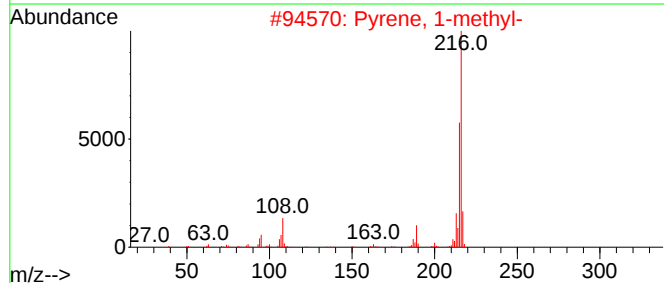
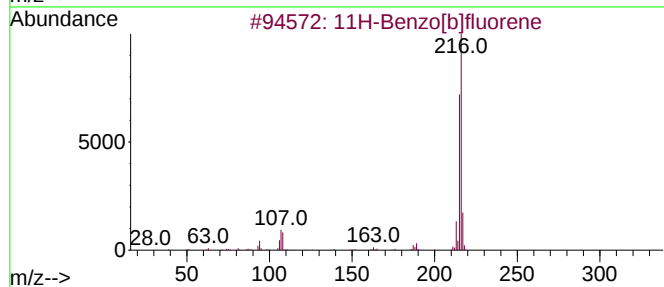
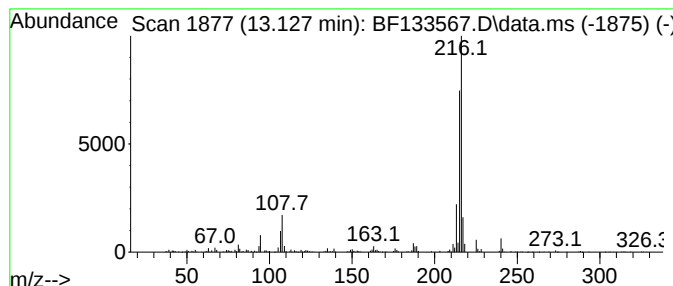
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 17 11H-Benzo[b]fluorene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.127	7.20 ng	682612	Chrysene-d12	14.004

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2		Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3		Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
4		11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5		7H-Benzo[c]fluorene	216	C17H12	000205-12-9	68



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
Data File : BF133567.D
Acq On : 05 Jun 2023 15:57
Operator : CG\JU
Sample : 02988-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ORA-1644

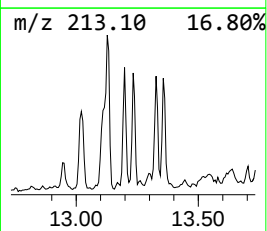
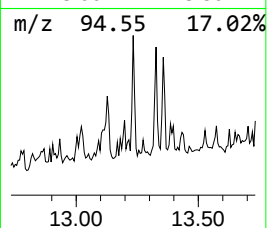
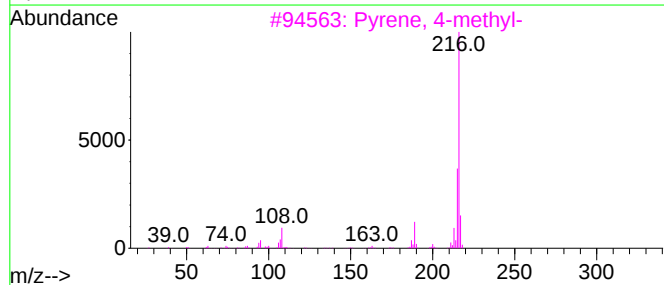
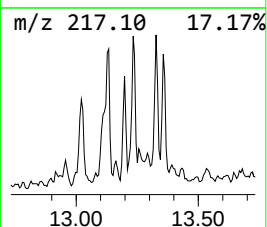
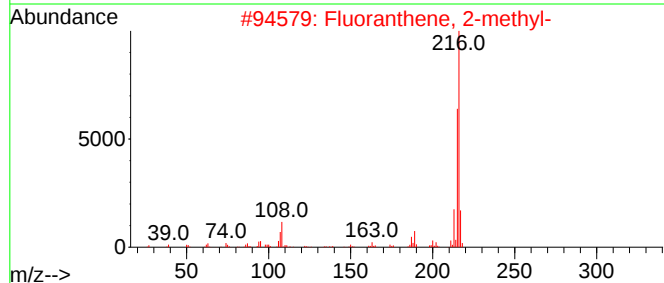
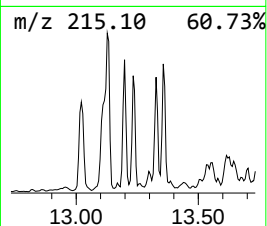
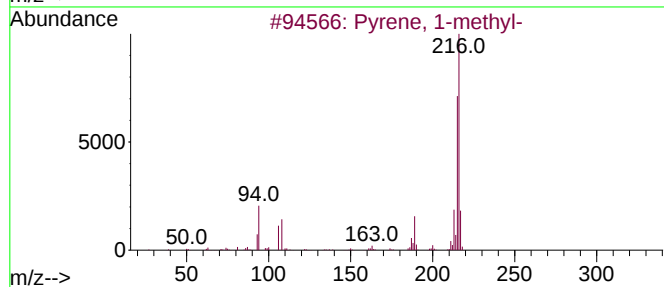
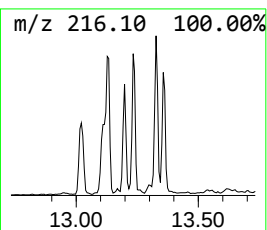
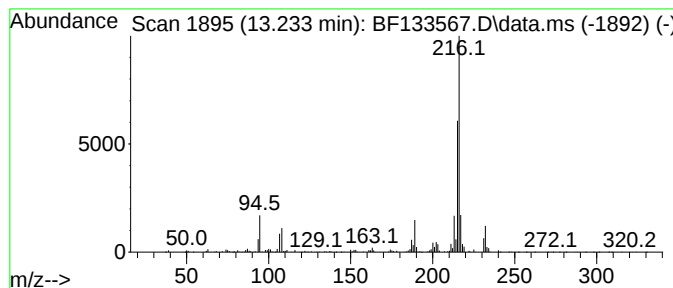
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 18 Pyrene, 4-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD		R.T.
13.233	7.56 ng	716159	Chrysene-d12		14.004

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Pyrene, 1-methyl-	216	C17H12	002381-21-7	98
2		Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	96
3		Pyrene, 4-methyl-	216	C17H12	003353-12-6	94
4		Pyrene, 2-methyl-	216	C17H12	003442-78-2	94
5		11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
Data File : BF133567.D
Acq On : 05 Jun 2023 15:57
Operator : CG\JU
Sample : 02988-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

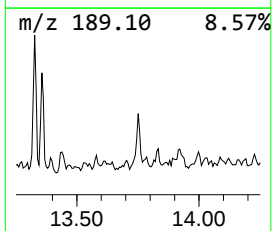
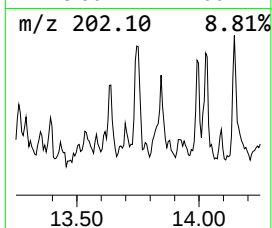
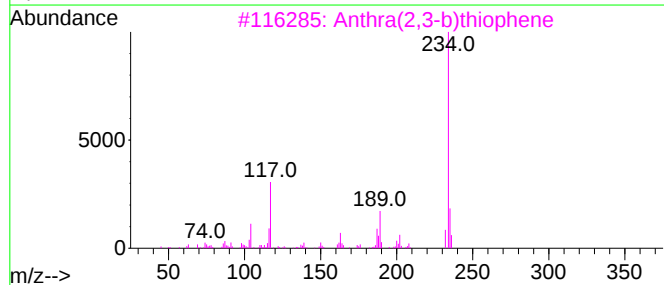
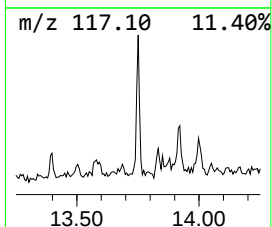
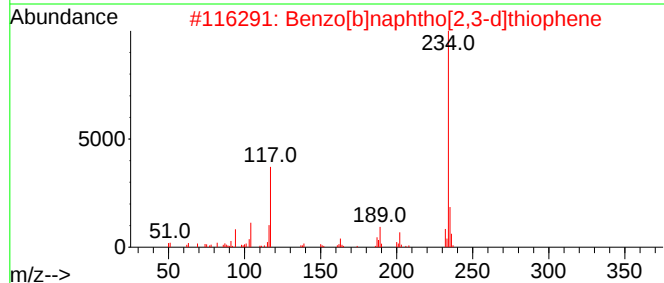
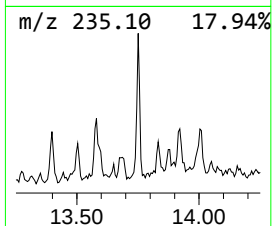
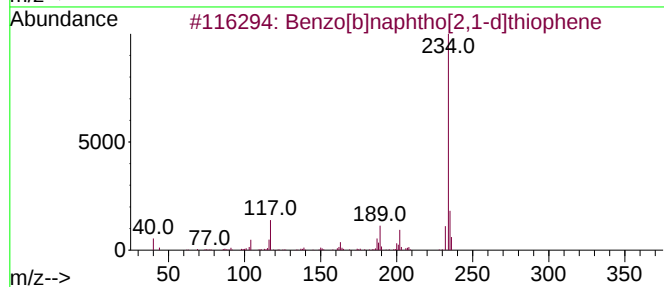
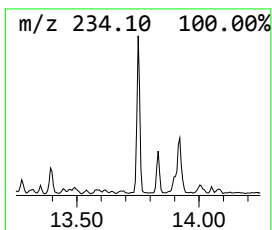
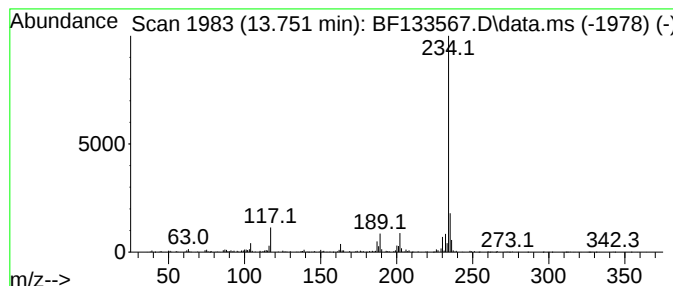
Instrument :
BNA_F
ClientSampleId :
ORA-1644

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 19 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.751	6.43 ng	609570	Chrysene-d12	14.004	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	95
2	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	94
3	Anthra(2,3-b)thiophene	234	C16H10S	022108-55-0	91
4	Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	87
5	Anthra[1,9a,9-cd:5,10a,10-c'd']d...	234	C14H6N2O2	000201-91-2	64



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
Data File : BF133567.D
Acq On : 05 Jun 2023 15:57
Operator : CG\JU
Sample : 02988-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ORA-1644

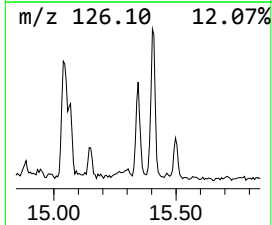
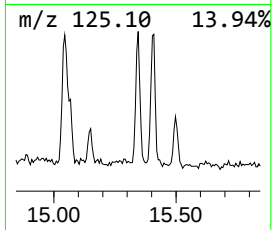
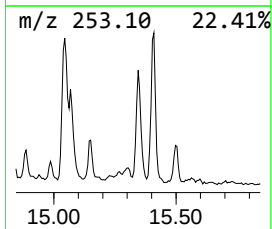
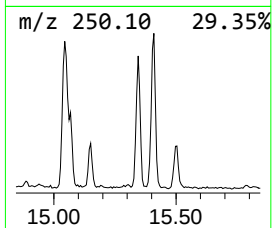
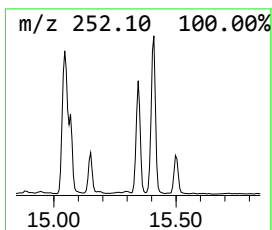
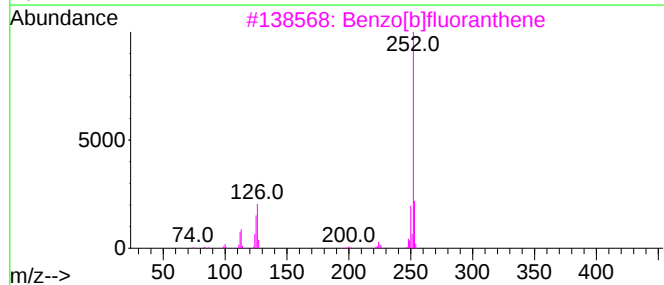
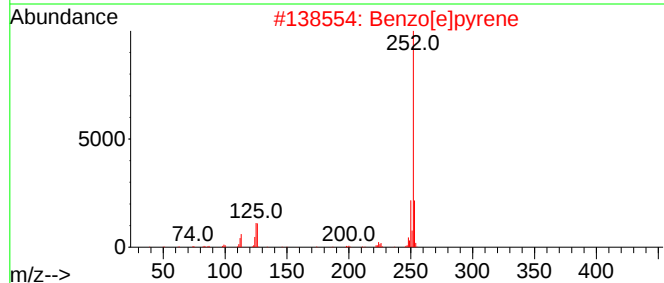
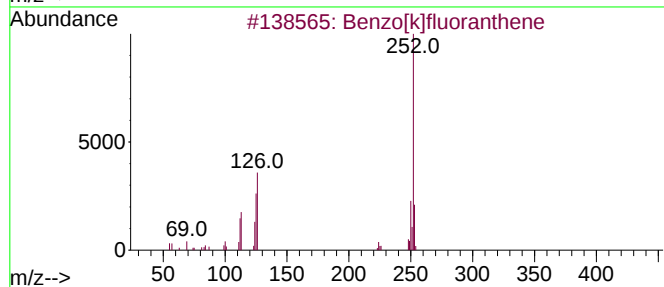
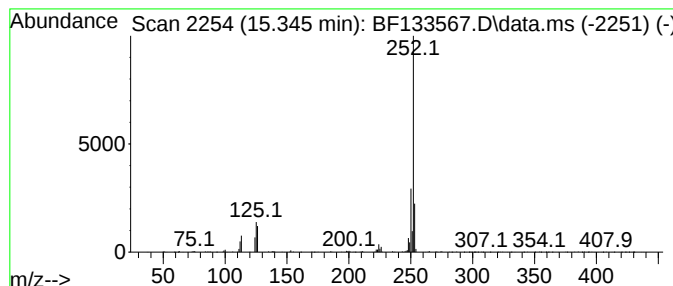
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 20 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.345	37.53 ng	649865	Perylene-d12	15.468

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
2		Benzo[e]pyrene	252	C20H12	000192-97-2	94
3		Benzo[b]fluoranthene	252	C20H12	000205-99-2	93
4		Benzo[a]pyrene	252	C20H12	000050-32-8	93
5		Perylene	252	C20H12	000198-55-0	90



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060523\
 Data File : BF133567.D
 Acq On : 05 Jun 2023 15:57
 Operator : CG\JU
 Sample : 02988-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ORA-1644

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
 TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
3-Methyl-4-(met...	10.780	9.2	ng	434139	4	11.357	947851	20.0
Dibenzothiophene	11.251	5.6	ng	263856	4	11.357	947851	20.0
Phenanthrene, 2...	11.857	12.3	ng	581952	4	11.357	947851	20.0
Anthracene, 2-m...	11.886	15.7	ng	743877	4	11.357	947851	20.0
Anthracene, 9-m...	11.933	6.0	ng	281860	4	11.357	947851	20.0
4H-Cyclopenta[d...	11.969	23.9	ng	1131940	4	11.357	947851	20.0
Phenanthrene, 1...	11.992	6.7	ng	317426	4	11.357	947851	20.0
Naphthalene, 2-...	12.157	5.8	ng	274180	4	11.357	947851	20.0
9,10-Anthracene...	12.174	5.8	ng	276581	4	11.357	947851	20.0
Phenanthrene, 1...	12.333	5.7	ng	268520	4	11.357	947851	20.0
Phenanthrene, 2...	12.410	16.0	ng	756394	4	11.357	947851	20.0
Acephenanthryle...	12.445	11.7	ng	555125	4	11.357	947851	20.0
Cyclopenta(def)...	12.492	10.3	ng	486821	4	11.357	947851	20.0
Benzene, 1,1'-(...	12.668	5.4	ng	257101	4	11.357	947851	20.0
Pyrene, 1-methyl-	13.021	6.0	ng	572079	5	14.004	1894930	20.0
Fluoranthene, 2...	13.110	5.0	ng	474992	5	14.004	1894930	20.0
11H-Benzo[b]flu...	13.127	7.2	ng	682612	5	14.004	1894930	20.0
Pyrene, 4-methyl-	13.233	7.6	ng	716159	5	14.004	1894930	20.0
Benzo[b]naphtho...	13.751	6.4	ng	609570	5	14.004	1894930	20.0
Benzo[e]pyrene	15.345	37.5	ng	649865	6	15.468	346320	20.0