

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103018\
 Data File : BF110303.D
 Acq On : 30 Oct 2018 15:20
 Operator : JU/SJ
 Sample : J5724-04
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALE

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-BF102318.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	2.328	36	41	56	rVB	350250	513083	14.29%	0.879%
2	5.216	527	532	539	rBV	78608	103350	2.88%	0.177%
3	5.598	591	597	600	rBV	2098244	2132751	59.41%	3.656%
4	6.593	761	766	778	rVB2	2160278	2383694	66.40%	4.086%
5	6.740	786	791	794	rBV	2541001	2310957	64.37%	3.961%
6	6.969	826	830	833	rBV	834891	681788	18.99%	1.169%
7	7.122	852	856	860	rBV	1917010	1786034	49.75%	3.061%
8	7.534	921	926	929	rBV	1448236	1420778	39.58%	2.435%
9	8.251	1044	1048	1050	rBV	1009023	855381	23.83%	1.466%
10	8.275	1050	1052	1067	rVB	184305	215515	6.00%	0.369%
11	9.328	1226	1231	1234	rBV	2776721	2479906	69.08%	4.251%
12	9.422	1243	1247	1253	rVB	472803	449957	12.53%	0.771%
13	9.716	1294	1297	1304	rVB	218297	185594	5.17%	0.318%
14	10.010	1344	1347	1350	rBV2	1056390	928427	25.86%	1.591%
15	10.045	1350	1353	1357	rVB	400200	329378	9.18%	0.565%
16	10.216	1379	1382	1386	rVB	221743	188881	5.26%	0.324%
17	10.480	1421	1427	1430	rBV	95404	92562	2.58%	0.159%
18	10.563	1437	1441	1444	rBV	515499	447993	12.48%	0.768%
19	10.616	1444	1450	1453	rVV	245801	318721	8.88%	0.546%
20	10.669	1457	1459	1462	rVV	204976	188066	5.24%	0.322%
21	10.804	1476	1482	1488	rBV2	1549325	1634392	45.53%	2.802%
22	10.969	1507	1510	1513	rBV	303949	235466	6.56%	0.404%
23	11.057	1520	1525	1526	rBV	178602	162563	4.53%	0.279%
24	11.075	1526	1528	1531	rVV	176548	173412	4.83%	0.297%
25	11.110	1531	1534	1536	rVV	105401	101805	2.84%	0.175%
26	11.139	1536	1539	1542	rVV	228601	191967	5.35%	0.329%
27	11.257	1551	1559	1564	rBV	287206	362732	10.10%	0.622%
28	11.345	1572	1574	1581	rBV3	69399	107766	3.00%	0.185%
29	11.404	1581	1584	1586	rVV	194526	161946	4.51%	0.278%
30	11.433	1586	1589	1592	rVB	257723	187415	5.22%	0.321%
31	11.510	1595	1602	1603	rBV	847658	855315	23.83%	1.466%
32	11.539	1603	1607	1610	rVV	3171595	2983326	83.10%	5.114%
33	11.586	1610	1615	1618	rVV	1057860	945381	26.33%	1.620%
34	11.733	1636	1640	1645	rVV	366218	396178	11.04%	0.679%

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF103018\
 Data File : BF10303.D
 Acq On : 30 Oct 2018 15:20
 Operator : JU/SJ
 Sample : J5724-04
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALE

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-BF102318.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.910	1667	1670	1677	rVB2	249673	259554	7.23%	0.445%
36	12.010	1683	1687	1689	rBV	408568	388410	10.82%	0.666%
37	12.039	1689	1692	1695	rVB	438855	417397	11.63%	0.715%
38	12.086	1695	1700	1703	rBV	186652	175994	4.90%	0.302%
39	12.127	1703	1707	1709	rVV2	606347	733344	20.43%	1.257%
40	12.145	1709	1710	1714	rVB	250967	129844	3.62%	0.223%
41	12.304	1733	1737	1739	rBV	278642	233519	6.50%	0.400%
42	12.333	1739	1742	1746	rVB	219853	189283	5.27%	0.324%
43	12.557	1777	1780	1784	rBV	162652	205059	5.71%	0.351%
44	12.598	1785	1787	1789	rVV2	89374	93346	2.60%	0.160%
45	12.651	1792	1796	1801	rVB4	136618	167687	4.67%	0.287%
46	12.733	1805	1810	1813	rBV	3297485	3517369	97.98%	6.029%
47	12.763	1813	1815	1817	rBV	112219	90584	2.52%	0.155%
48	12.880	1827	1835	1837	rBV3	130872	204173	5.69%	0.350%
49	12.963	1842	1849	1853	rBV2	2675700	3589870	100.00%	6.153%
50	13.004	1853	1856	1860	rVB2	181732	186458	5.19%	0.320%
51	13.092	1860	1871	1873	rBV2	1970189	1899758	52.92%	3.256%
52	13.116	1873	1875	1879	rVB	170529	156145	4.35%	0.268%
53	13.174	1879	1885	1888	rBV2	200371	348519	9.71%	0.597%
54	13.257	1896	1899	1901	rBV3	170072	213798	5.96%	0.366%
55	13.286	1901	1904	1907	rVV	483516	449864	12.53%	0.771%
56	13.351	1911	1915	1917	rBV	452752	382985	10.67%	0.656%
57	13.386	1917	1921	1924	rVV2	260968	314788	8.77%	0.540%
58	13.410	1924	1925	1928	rVB	112327	89426	2.49%	0.153%
59	13.480	1934	1937	1940	rBV	153011	153553	4.28%	0.263%
60	13.516	1940	1943	1945	rVB	142068	131748	3.67%	0.226%
61	13.792	1988	1990	1994	rVB	187798	179719	5.01%	0.308%
62	13.904	2004	2009	2012	rBV2	263321	325547	9.07%	0.558%
63	13.933	2012	2014	2016	rVV	298545	259565	7.23%	0.445%
64	13.969	2016	2020	2023	rVV2	312618	520665	14.50%	0.892%
65	14.004	2023	2026	2033	rVB	224499	257222	7.17%	0.441%
66	14.074	2033	2038	2042	rBV	86799	141098	3.93%	0.242%
67	14.151	2044	2051	2055	rVV3	1725154	2653476	73.92%	4.548%
68	14.186	2055	2057	2064	rVB	1468843	1357617	37.82%	2.327%
69	14.268	2068	2071	2073	rVV	310808	308867	8.60%	0.529%
70	14.310	2076	2078	2081	rVV3	134454	175212	4.88%	0.300%
71	14.345	2082	2084	2087	rVV	133999	136085	3.79%	0.233%

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF103018\
 Data File : BF110303.D
 Acq On : 30 Oct 2018 15:20
 Operator : JU/SJ
 Sample : J5724-04
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALE

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-BF102318.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.380	2087	2090	2094	rVV2	190020	254016	7.08%	0.435%
73	14.504	2108	2111	2113	rVV2	109943	124453	3.47%	0.213%
74	14.539	2113	2117	2120	rVV	265191	344989	9.61%	0.591%
75	14.574	2120	2123	2125	rVV2	154559	190476	5.31%	0.326%
76	14.592	2125	2126	2129	rVV	194953	187452	5.22%	0.321%
77	14.639	2133	2134	2137	rVV	123710	120521	3.36%	0.207%
78	14.674	2137	2140	2141	rVV2	171296	159832	4.45%	0.274%
79	14.692	2141	2143	2147	rVV2	183858	187734	5.23%	0.322%
80	14.745	2147	2152	2155	rVB2	82264	107838	3.00%	0.185%
81	14.868	2170	2173	2176	rBV3	101373	120472	3.36%	0.207%
82	14.916	2177	2181	2184	rVB	266878	302952	8.44%	0.519%
83	14.998	2191	2195	2199	rVB4	71622	109325	3.05%	0.187%
84	15.063	2202	2206	2214	rVB2	104148	168283	4.69%	0.288%
85	15.245	2230	2237	2239	rBV	1014076	1728454	48.15%	2.963%
86	15.268	2239	2241	2246	rVB2	873589	852874	23.76%	1.462%
87	15.351	2251	2255	2259	rVB	236945	252007	7.02%	0.432%
88	15.439	2267	2270	2272	rBV3	80181	102640	2.86%	0.176%
89	15.563	2286	2291	2297	rVB	629360	908168	25.30%	1.557%
90	15.633	2297	2303	2306	rBV	967367	1220642	34.00%	2.092%
91	15.674	2306	2310	2311	rBV	344099	367657	10.24%	0.630%
92	15.727	2316	2319	2325	rVB	281420	406287	11.32%	0.696%
93	16.139	2383	2389	2396	rVB2	255469	422106	11.76%	0.724%
94	16.292	2411	2415	2419	rVB2	65645	97337	2.71%	0.167%
95	16.674	2475	2480	2489	rVB3	140378	280755	7.82%	0.481%
96	17.274	2574	2582	2592	rBV2	346725	782276	21.79%	1.341%
97	17.451	2607	2612	2618	rVB	67408	134998	3.76%	0.231%
98	17.515	2618	2623	2629	rBV3	62444	128186	3.57%	0.220%
99	17.751	2656	2663	2674	rVB	243090	579989	16.16%	0.994%
100	18.004	2701	2706	2712	rBV	65308	146165	4.07%	0.251%

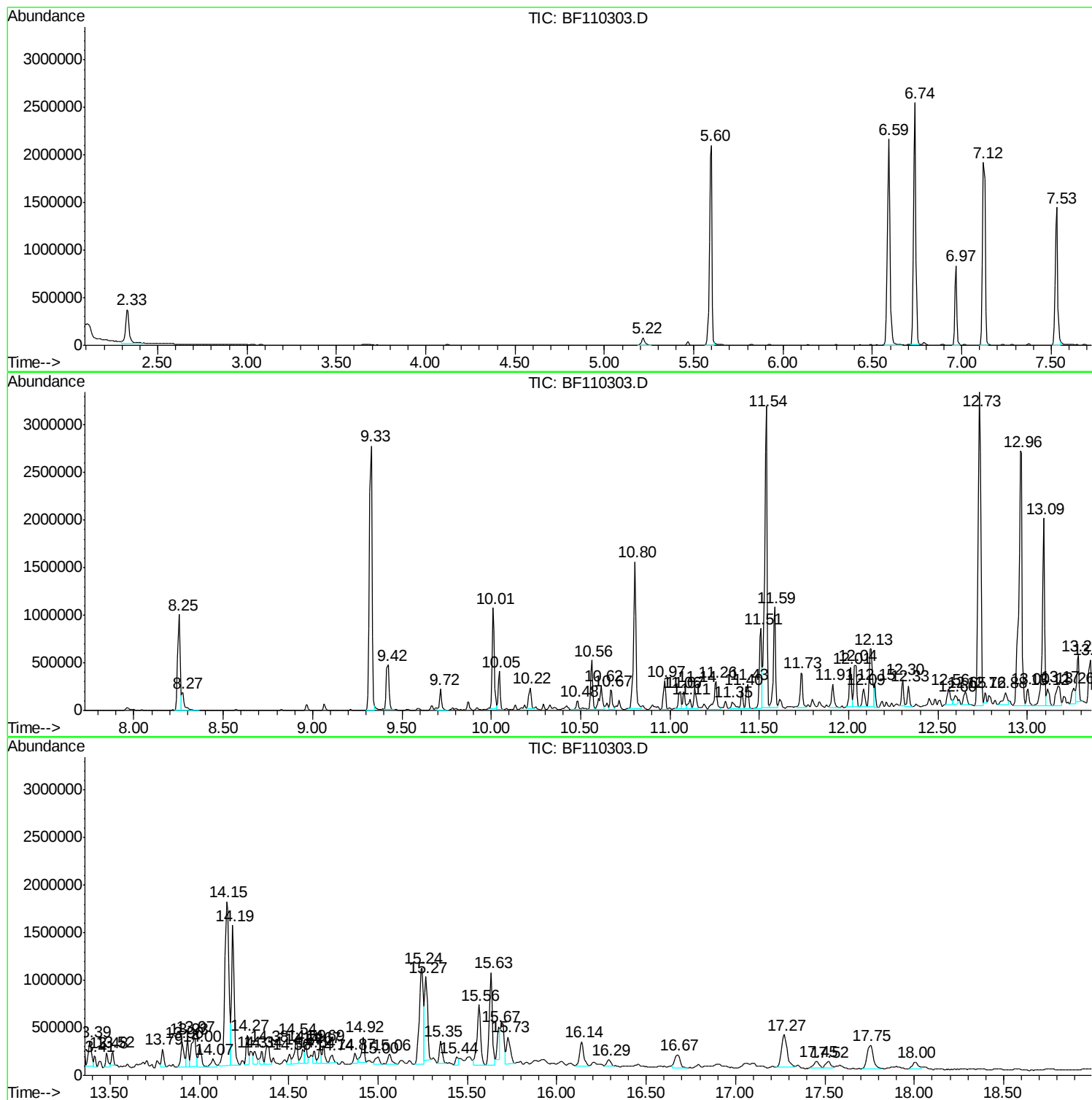
Sum of corrected areas: 58338912

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103018\
Data File : BF110303.D
Acq On : 30 Oct 2018 15:20
Operator : JU/SJ
Sample : J5724-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RED-SHALE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.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\BF103018\
Data File : BF110303.D
Acq On : 30 Oct 2018 15:20
Operator : JU/SJ
Sample : J5724-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RED-SHALE

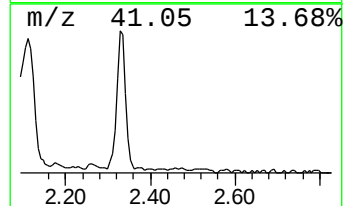
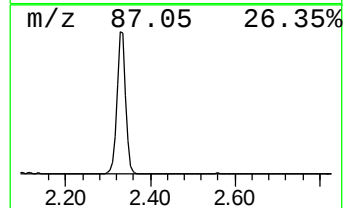
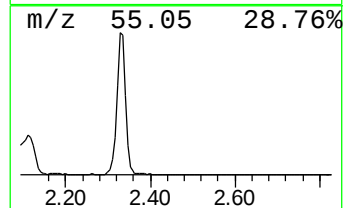
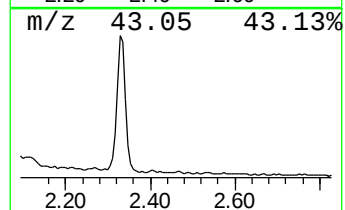
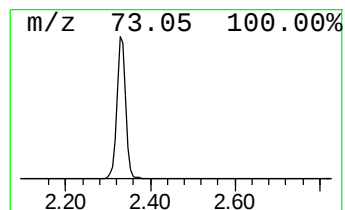
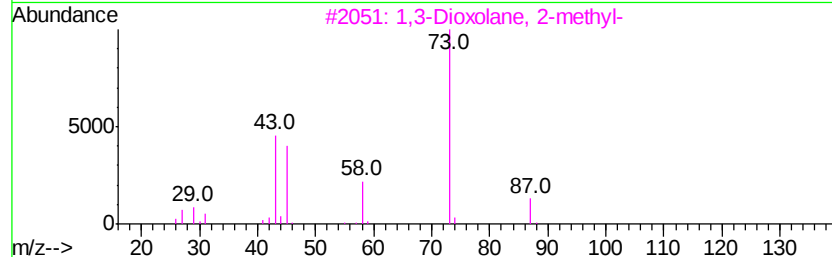
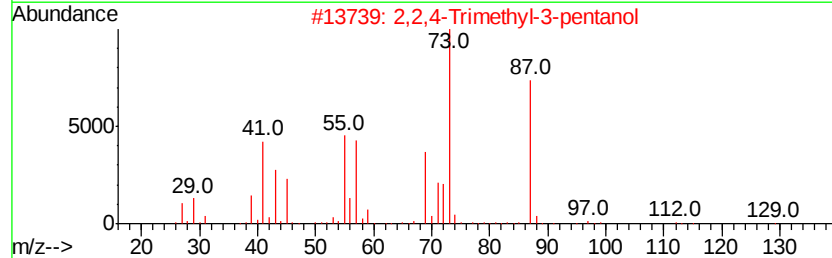
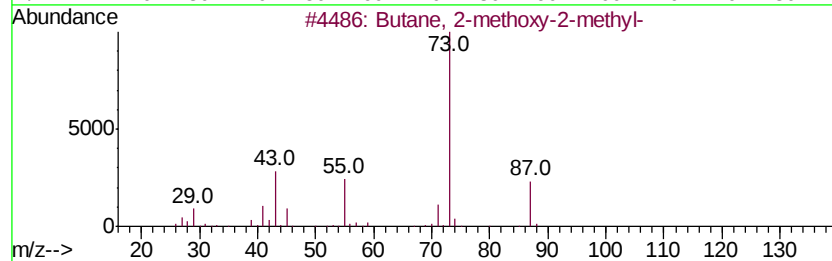
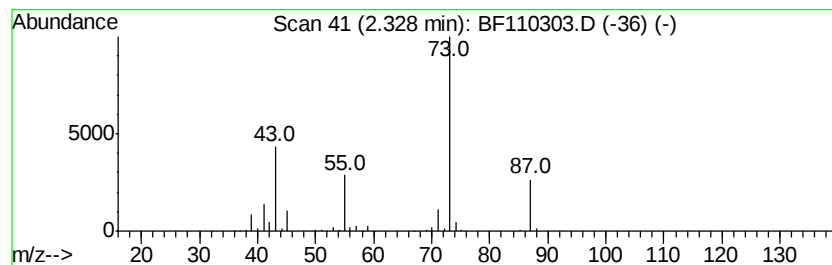
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.33	15.05 ng	513083	1,4-Dichlorobenzene-d4	6.97

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2		2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3		1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	37
4		Silane, tetramethyl-	88	C4H12Si	000075-76-3	12
5		Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103018\
Data File : BF110303.D
Acq On : 30 Oct 2018 15:20
Operator : JU/SJ
Sample : J5724-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RED-SHALE

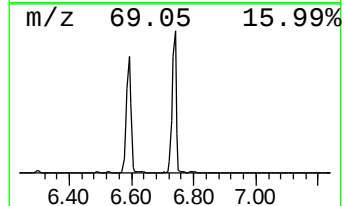
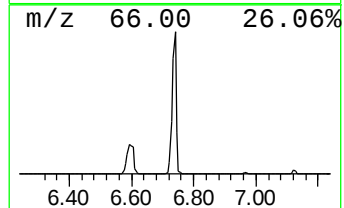
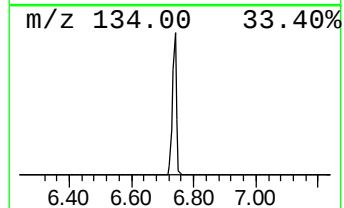
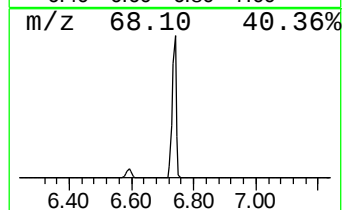
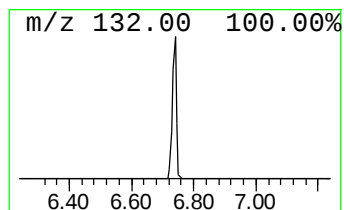
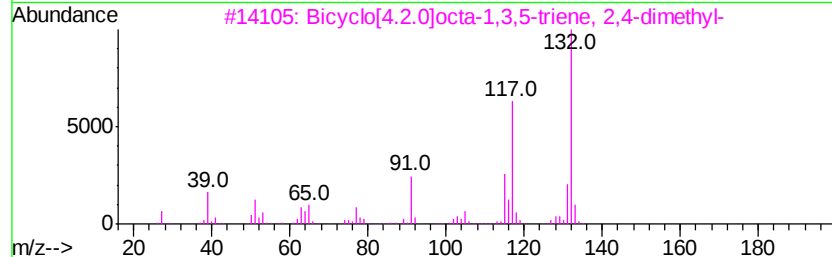
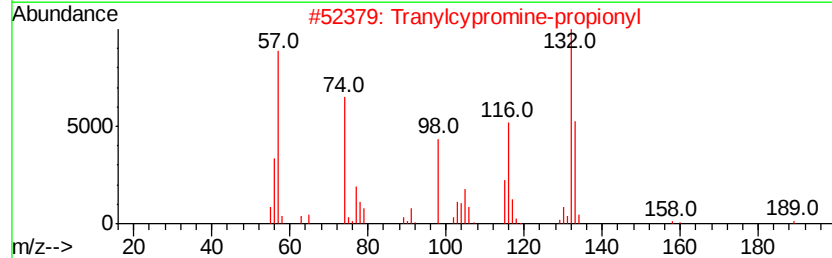
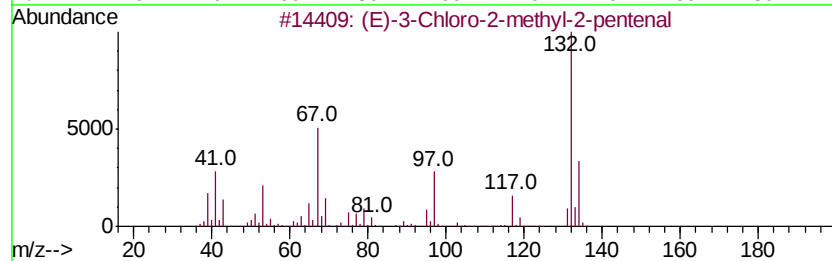
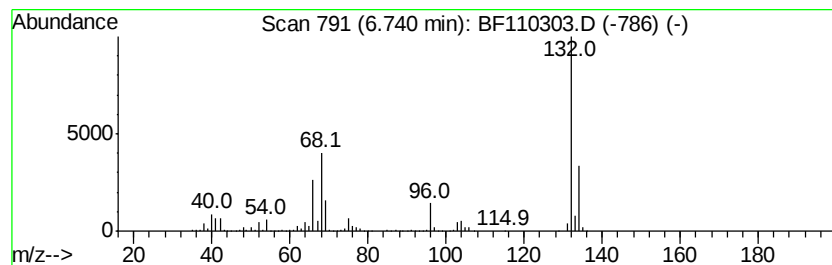
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 unknown6.74 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.74	67.79 ng	2310960	1,4-Dichlorobenzene-d4	6.97

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	16
2		Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	12
3		Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
4		5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9
5		4-Chloro-2-fluoro-pyrimidine	132	C4H2ClFN2	051422-00-5	9



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103018\
Data File : BF110303.D
Acq On : 30 Oct 2018 15:20
Operator : JU/SJ
Sample : J5724-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RED-SHALE

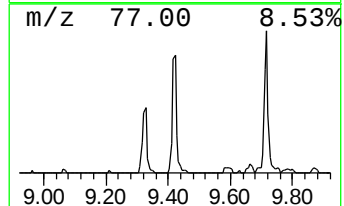
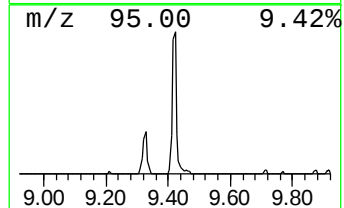
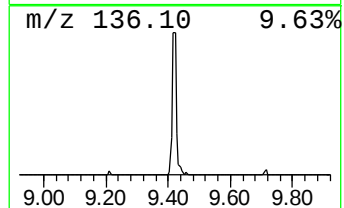
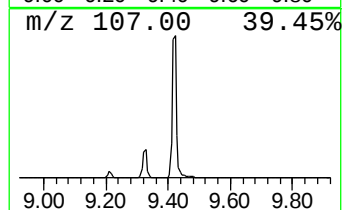
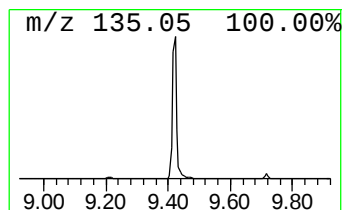
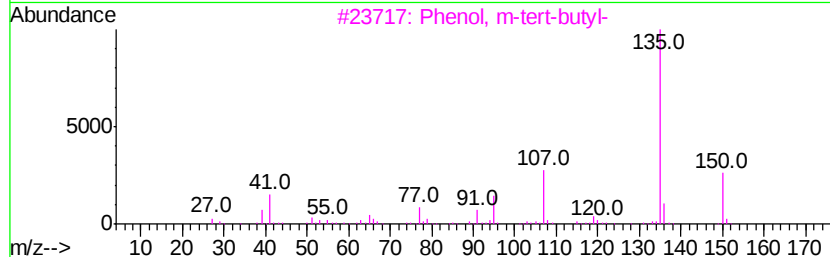
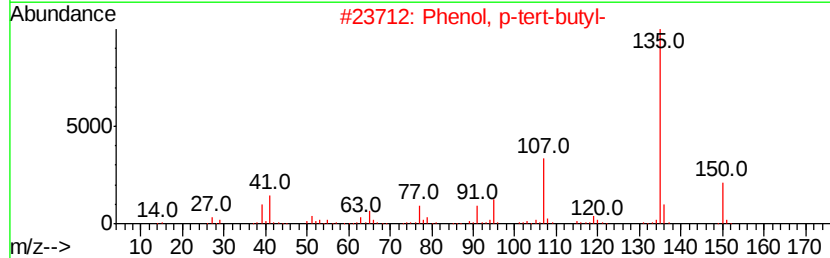
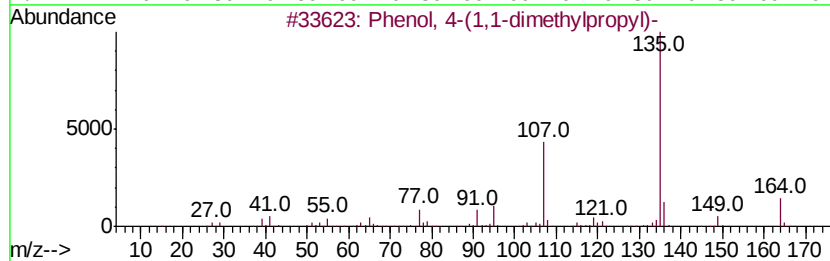
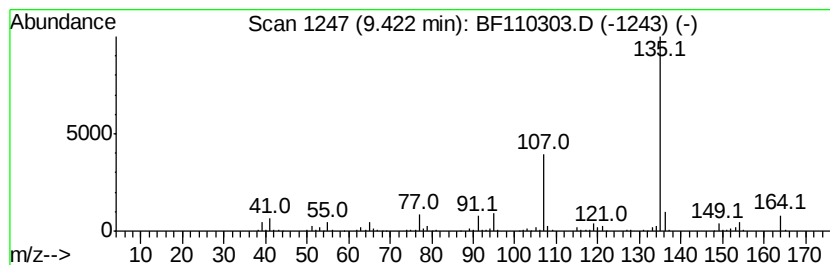
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Phenol, 4-(1,1-dimethylprop... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.42	9.69 ng	449957	Acenaphthene-d10	10.01

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenol, 4-(1,1-dimethylpropyl)-	164	C11H16O	000080-46-6	94
2			Phenol, p-tert-butyl-	150	C10H14O	000098-54-4	72
3			Phenol, m-tert-butyl-	150	C10H14O	000585-34-2	72
4			Hexestrol	270	C18H22O2	000084-16-2	64
5			Hexestrol, 0-trifluoroacetyl-	366	C20H21F3O3	1000365-31-7	64



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103018\
Data File : BF110303.D
Acq On : 30 Oct 2018 15:20
Operator : JU/SJ
Sample : J5724-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

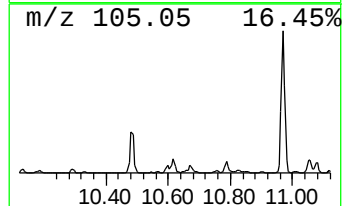
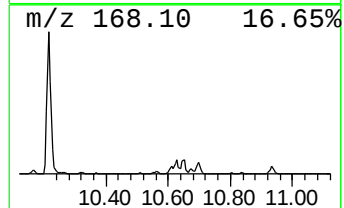
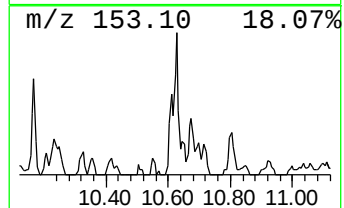
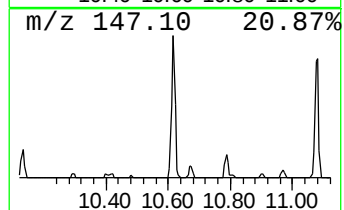
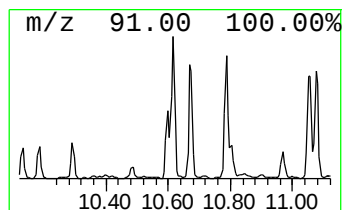
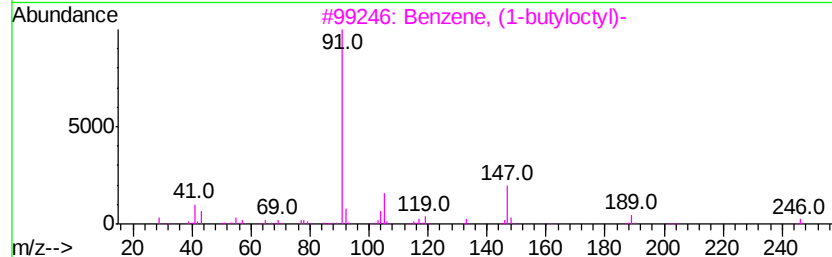
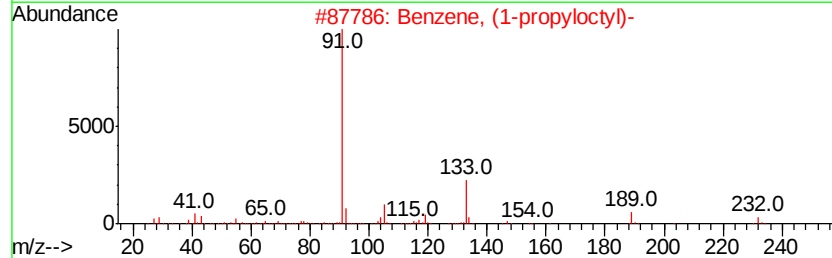
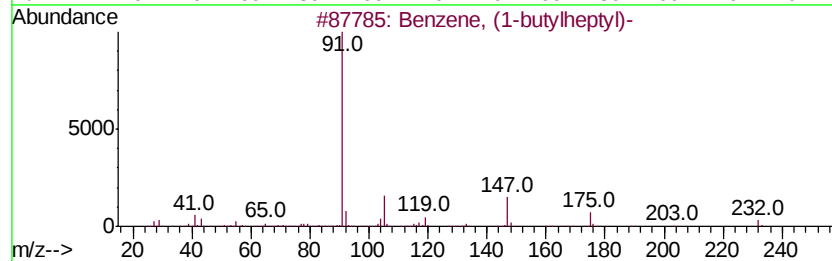
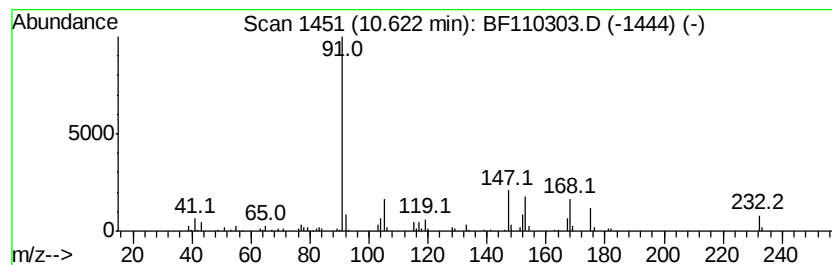
Instrument :
BNA_F
ClientSampleId :
RED-SHALE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Benzene, (1-butylheptyl)- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD		R.T.
10.62	6.87 ng	318721	Acenaphthene-d10		10.01
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-butylheptyl)-	232	C17H28	004537-15-9	95
2	Benzene, (1-propyloctyl)-	232	C17H28	004536-86-1	52
3	Benzene, (1-butylloctyl)-	246	C18H30	002719-63-3	50
4	Benzene, (1-ethylnonyl)-	232	C17H28	004536-87-2	47
5	Benzene, (1-propylnonyl)-	246	C18H30	002719-64-4	43



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103018\
Data File : BF110303.D
Acq On : 30 Oct 2018 15:20
Operator : JU/SJ
Sample : J5724-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RED-SHALE

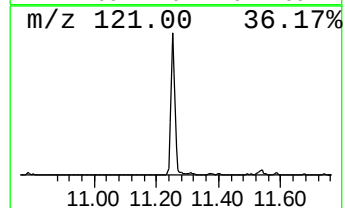
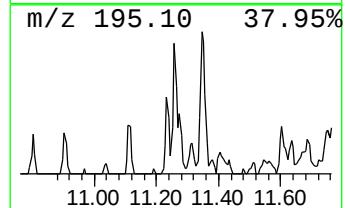
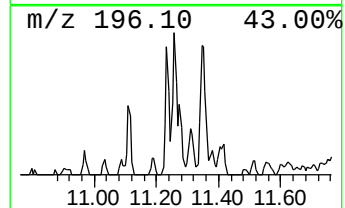
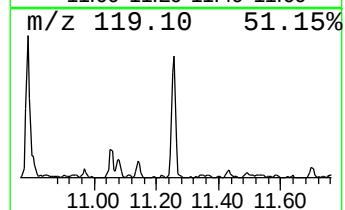
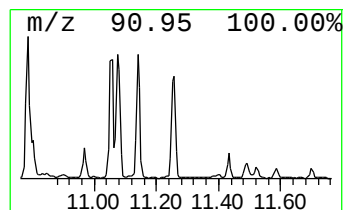
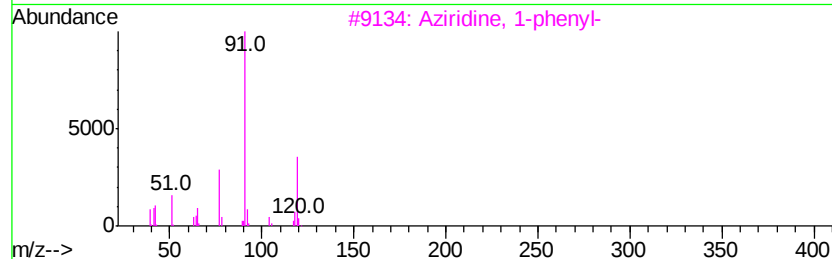
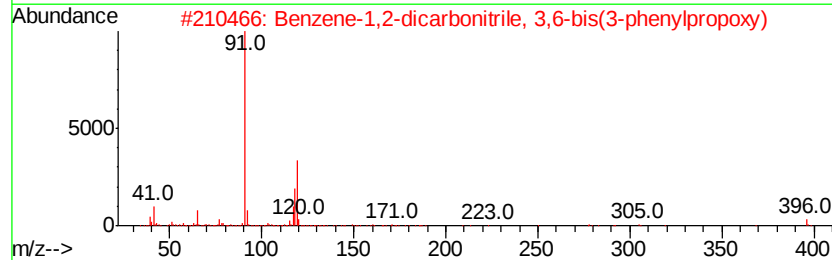
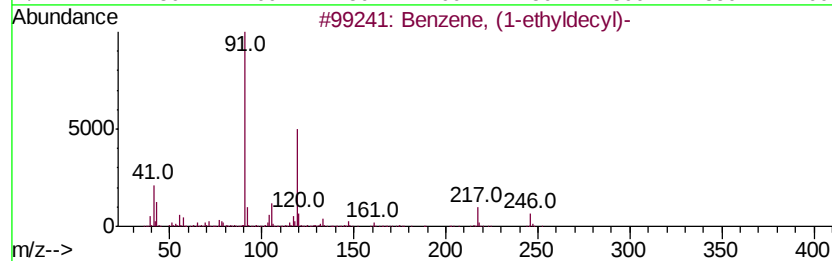
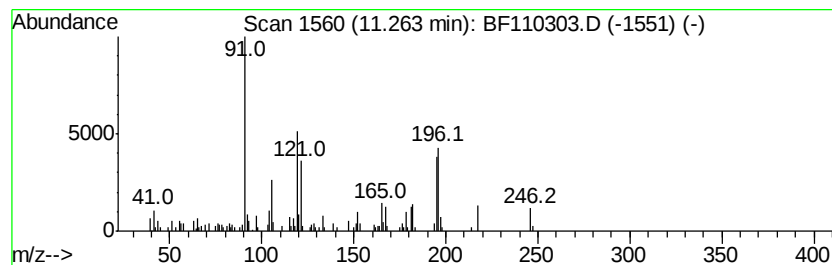
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Benzene, (1-ethyldecyl)- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.26	8.48 ng	362732	Phenanthrene-d10	11.51

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzene, (1-ethyldecyl)-	246	C18H30	002400-00-2	97
2		Benzene-1,2-dicarbonitrile, 3,6-...	396	C26H24N2O2	116453-81-7	47
3		Aziridine, 1-phenyl-	119	C8H9N	000696-18-4	47
4		Benzene, (1-ethyloctyl)-	218	C16H26	004621-36-7	47
5		Benzene, (1-ethylnonyl)-	232	C17H28	004536-87-2	47



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103018\
Data File : BF110303.D
Acq On : 30 Oct 2018 15:20
Operator : JU/SJ
Sample : J5724-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RED-SHALE

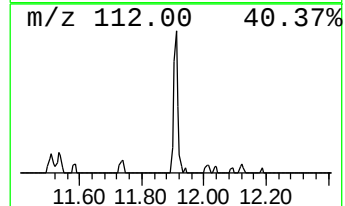
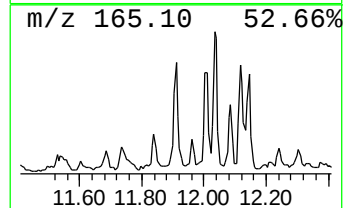
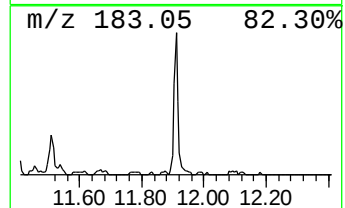
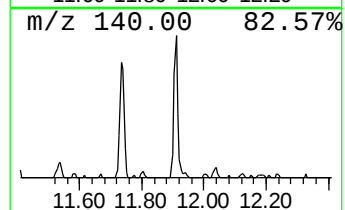
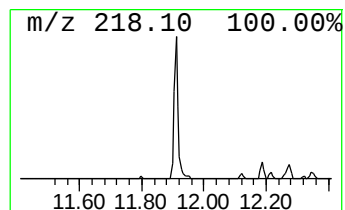
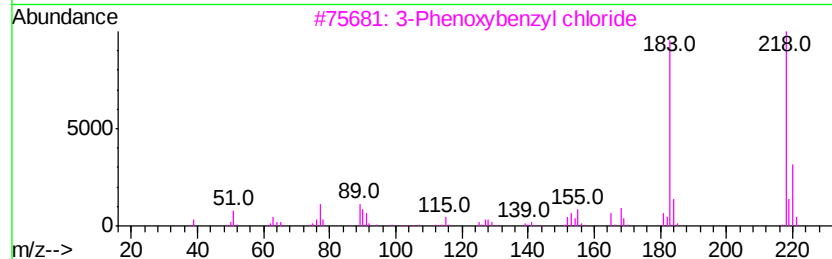
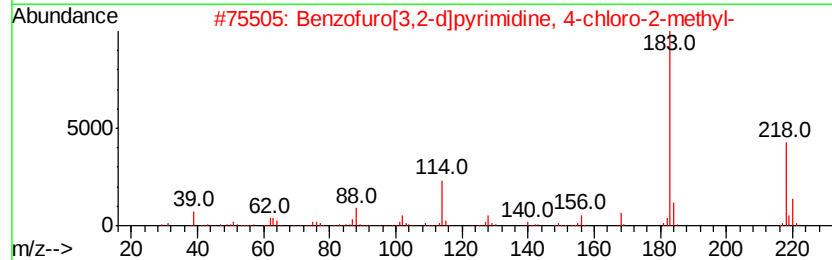
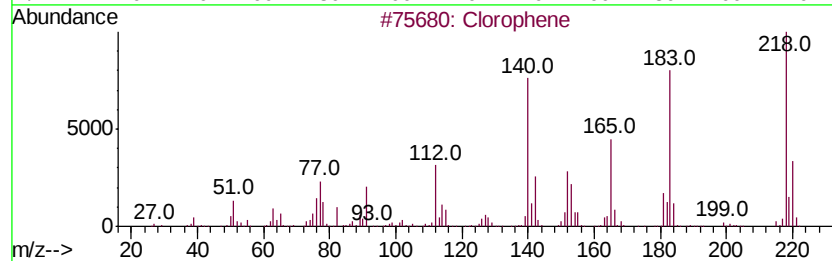
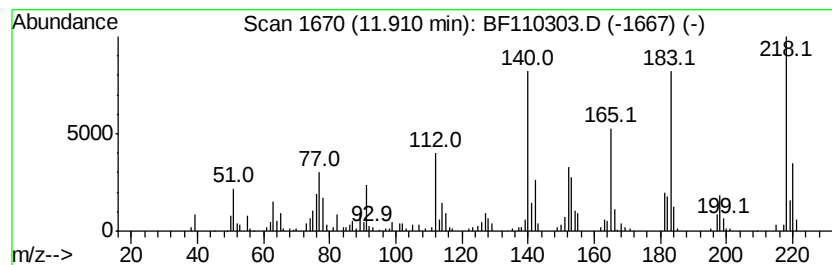
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Clorophene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.91	6.07 ng	259554	Phenanthrene-d10	11.51

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Clorophene	218	C13H11ClO	000120-32-1	99
2		Benzofuro[3,2-d]pyrimidine, 4-ch...	218	C11H7ClN2O	039786-40-8	46
3		3-Phenoxybenzyl chloride	218	C13H11ClO	1000353-82-2	43
4		6-Methoxy-2-naphthonitrile	183	C12H9NO	067886-70-8	41
5		Naphthalene, 1,6-dimethyl-4-(1-m...	198	C15H18	000483-78-3	35



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103018\
Data File : BF110303.D
Acq On : 30 Oct 2018 15:20
Operator : JU/SJ
Sample : J5724-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RED-SHALE

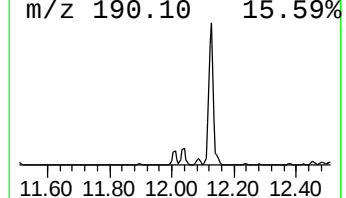
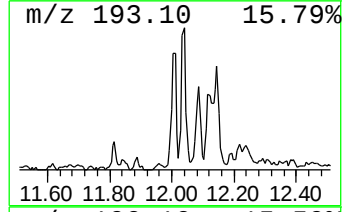
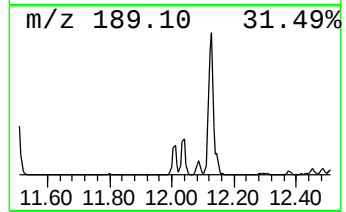
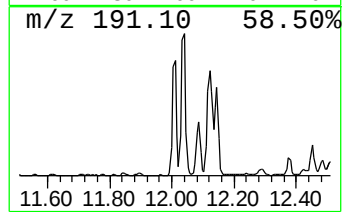
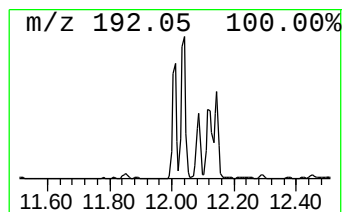
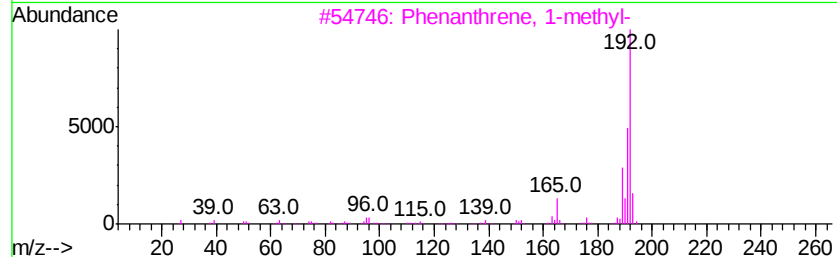
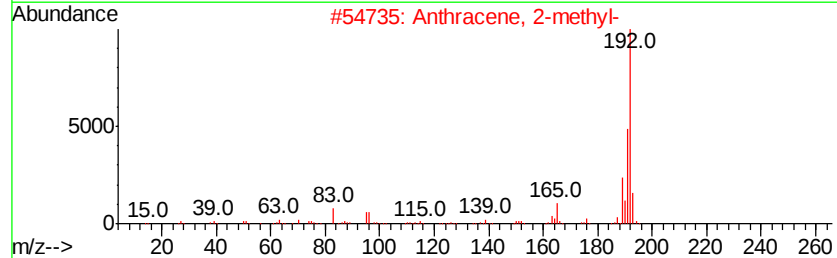
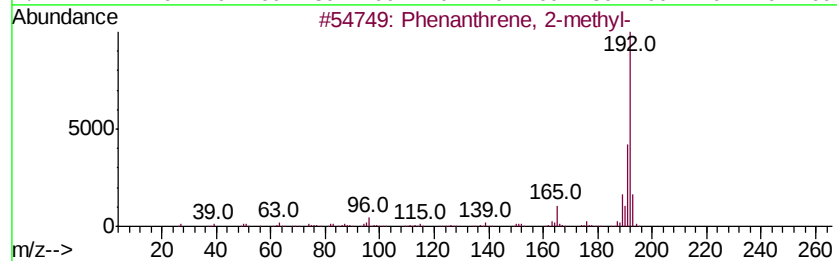
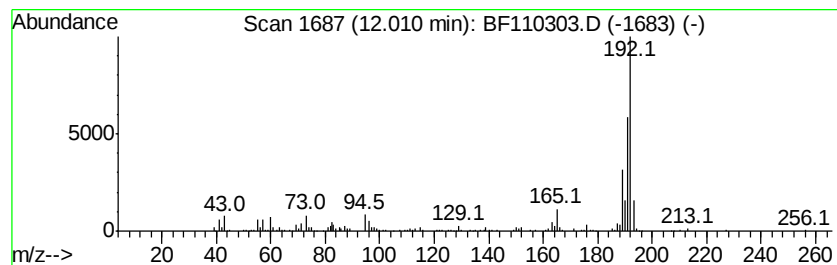
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	9.08 ng	388410	Phenanthrene-d10	11.51

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2		Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4		1H-Cyclopropa[1,1]phenanthrene, 1a,...	192	C15H12	000949-41-7	94
5		Anthracene, 9-methyl-	192	C15H12	000779-02-2	94



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103018\
Data File : BF110303.D
Acq On : 30 Oct 2018 15:20
Operator : JU/SJ
Sample : J5724-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

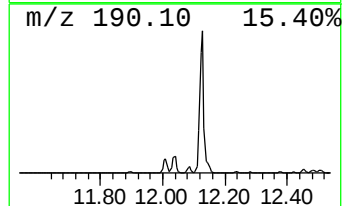
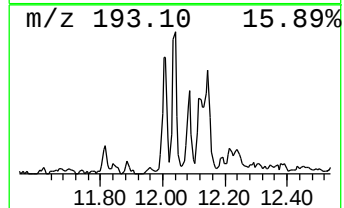
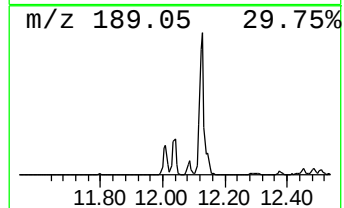
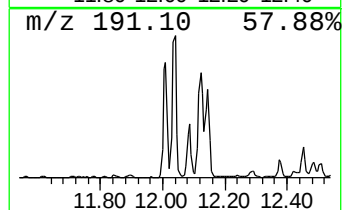
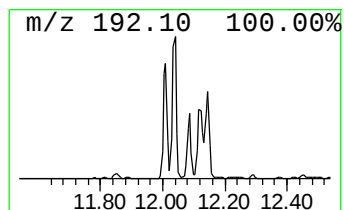
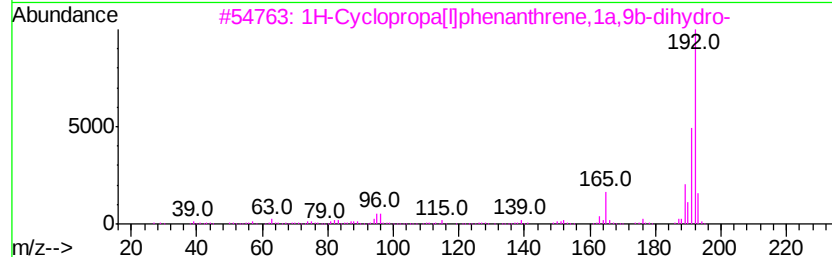
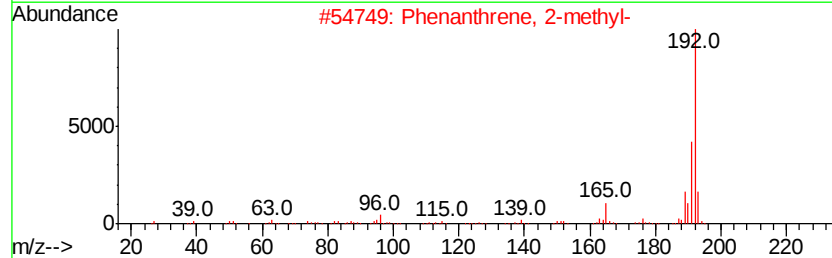
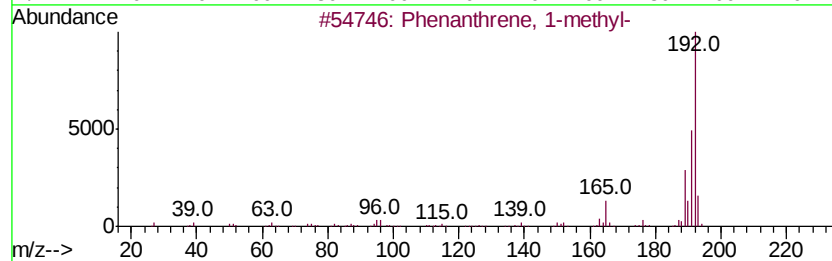
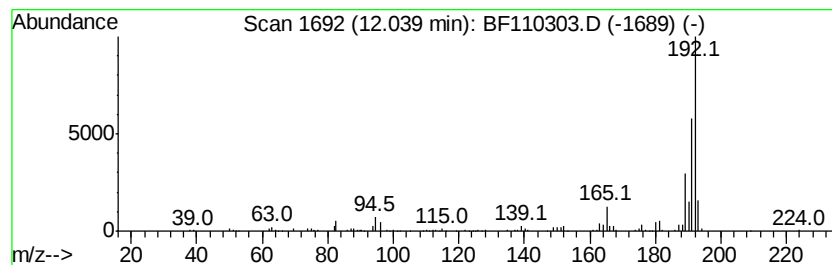
Instrument :
BNA_F
ClientSampleId :
RED-SHALE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD		R.T.	
12.04	9.76 ng	417397	Phenanthrene-d10		11.51	
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3		1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4		Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
5		Anthracene, 2-methyl-	192	C15H12	000613-12-7	93



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103018\
 Data File : BF110303.D
 Acq On : 30 Oct 2018 15:20
 Operator : JU/SJ
 Sample : J5724-04
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALE

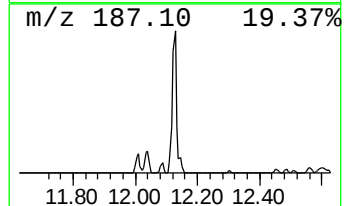
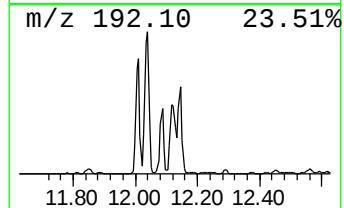
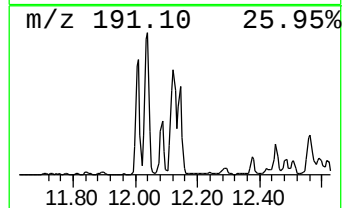
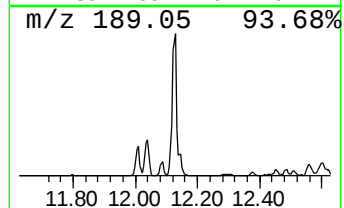
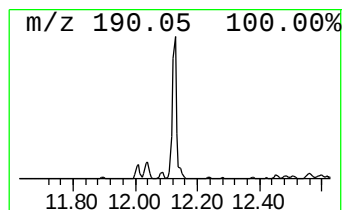
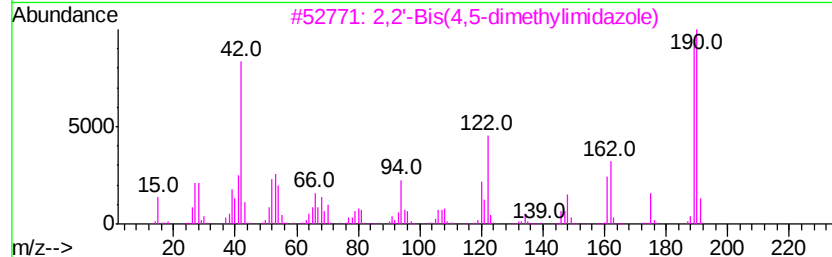
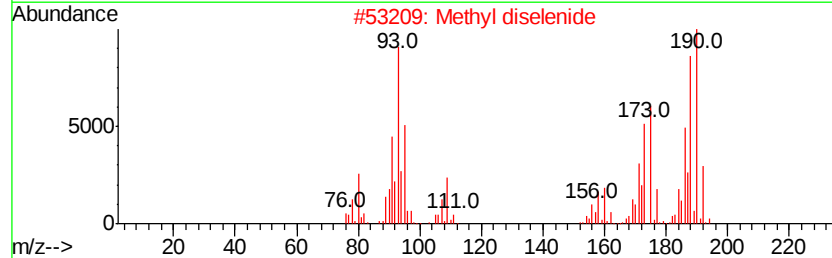
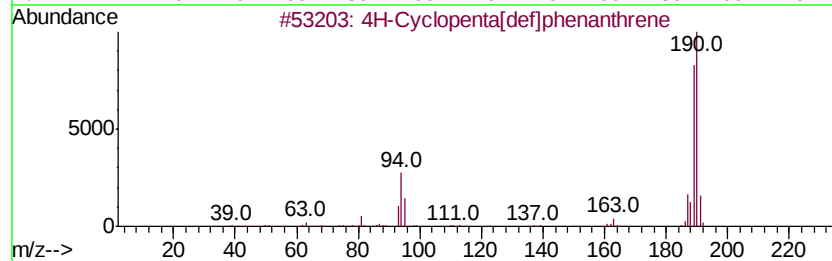
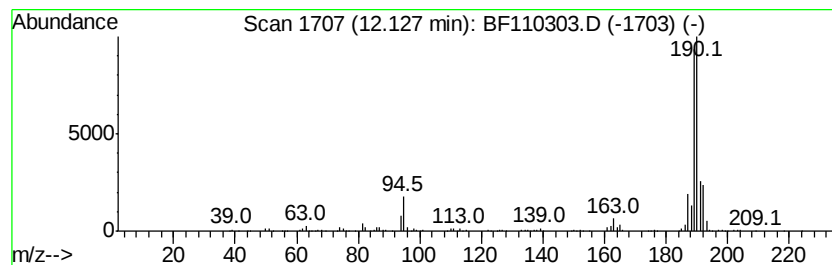
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

 Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.13	17.15 ng	733344	Phenanthrene-d10	11.51

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2		Methyl diselenide	190	C2H6Se2	007101-31-7	55
3		2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
4		Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	40
5		6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	23



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103018\
Data File : BF110303.D
Acq On : 30 Oct 2018 15:20
Operator : JU/SJ
Sample : J5724-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RED-SHALE

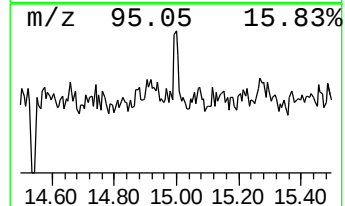
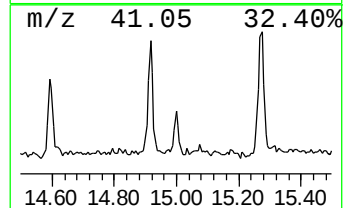
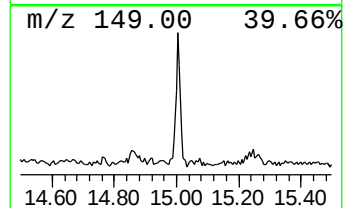
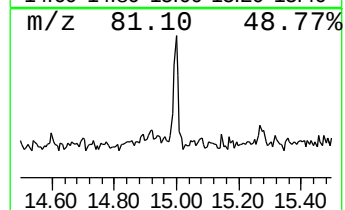
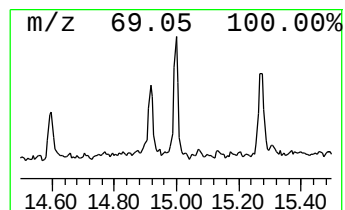
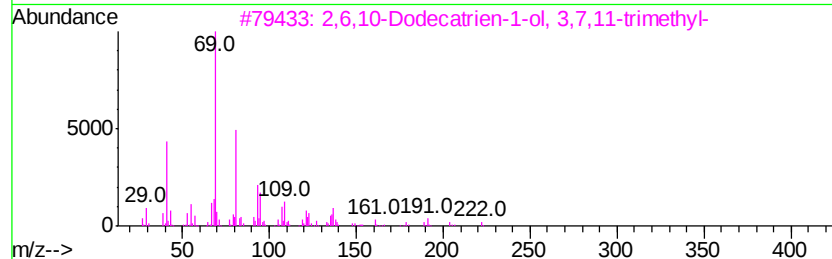
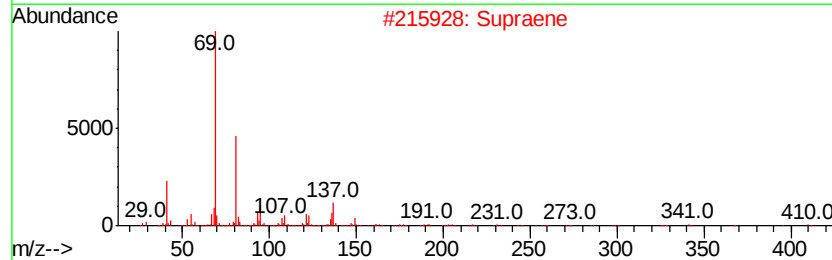
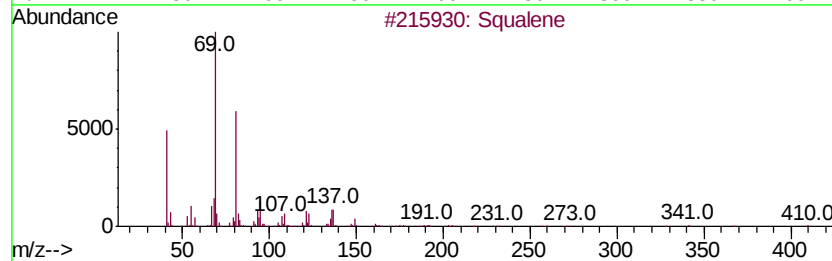
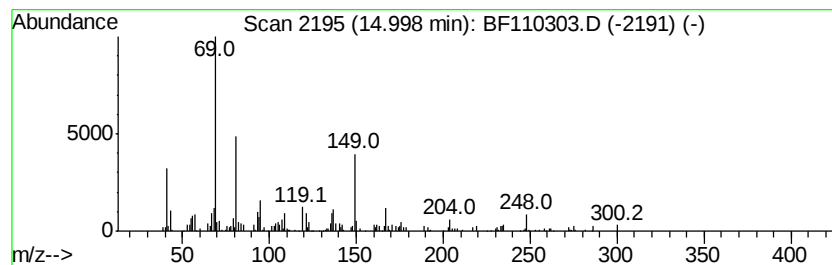
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Squalene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.00	5.95 ng	109325	Perylene-d12	15.70

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Squalene	410	C30H50	000111-02-4	62
2		Supraene	410	C30H50	007683-64-9	62
3		2,6,10-Dodecatrien-1-ol, 3,7,11-...	222	C15H26O	004602-84-0	50
4		trans-Farnesol	222	C15H26O	000106-28-5	46
5		Farnesyl bromide	284	C15H25Br	006874-67-5	43



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103018\
Data File : BF110303.D
Acq On : 30 Oct 2018 15:20
Operator : JU/SJ
Sample : J5724-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RED-SHALE

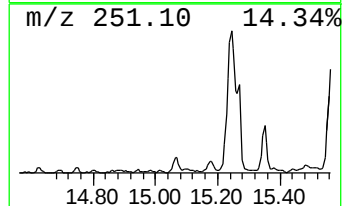
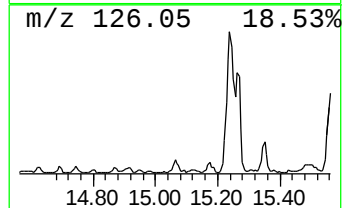
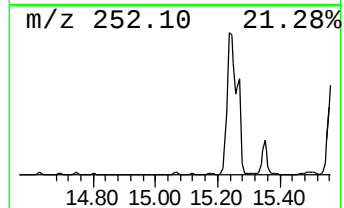
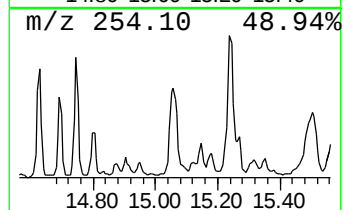
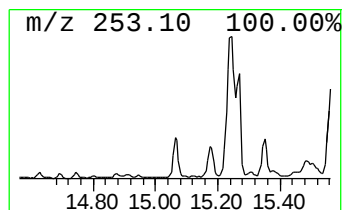
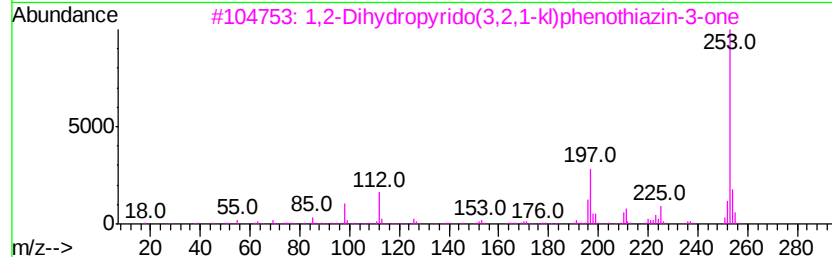
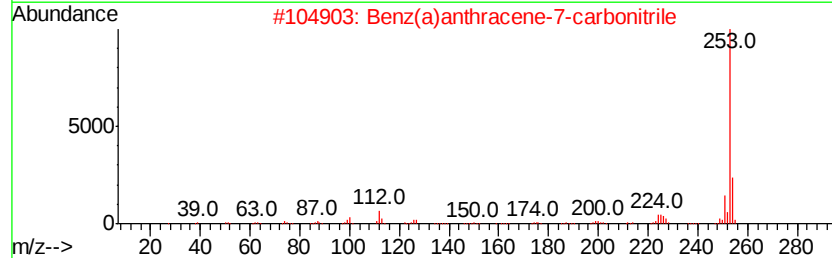
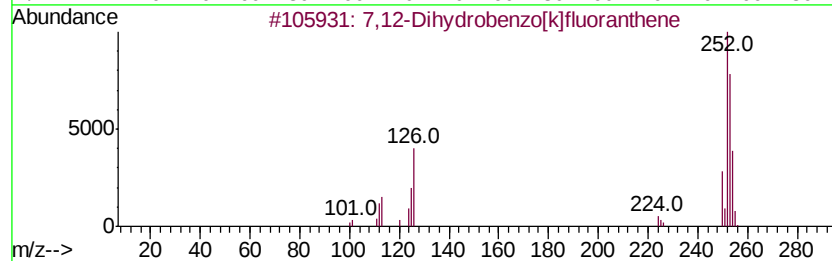
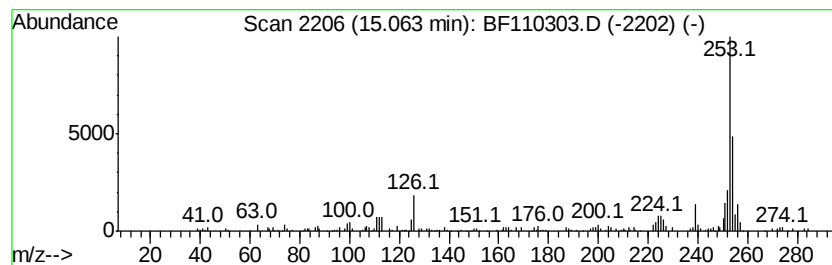
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 7,12-Dihydrobenzo[k]fluoran... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.06	9.15 ng	168283	Perylene-d12	15.70

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			7,12-Dihydrobenzo[k]fluoranthene	254	C20H14	1000080-17-7	58
2			Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	49
3			1,2-Dihydroprido(3,2,1-kl)pheno...	253	C15H11NOS	069513-42-4	46
4			1,2'-Binaphthalene	254	C20H14	004325-74-0	46
5			1,1'-Binaphthalene	254	C20H14	000604-53-5	46



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103018\
Data File : BF110303.D
Acq On : 30 Oct 2018 15:20
Operator : JU/SJ
Sample : J5724-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RED-SHALE

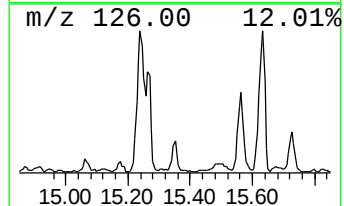
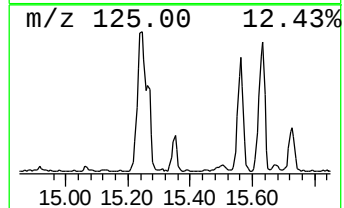
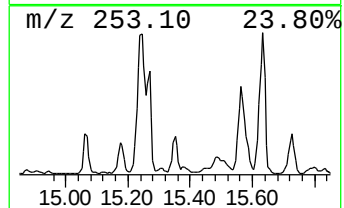
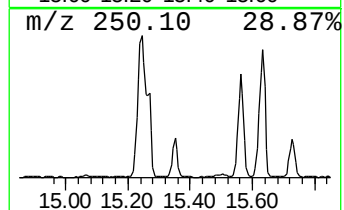
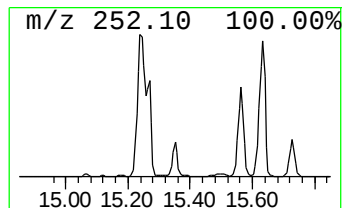
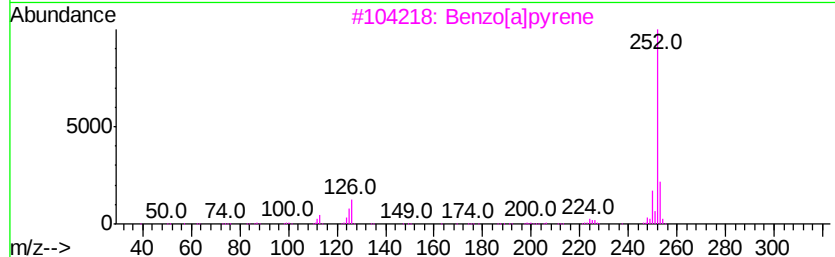
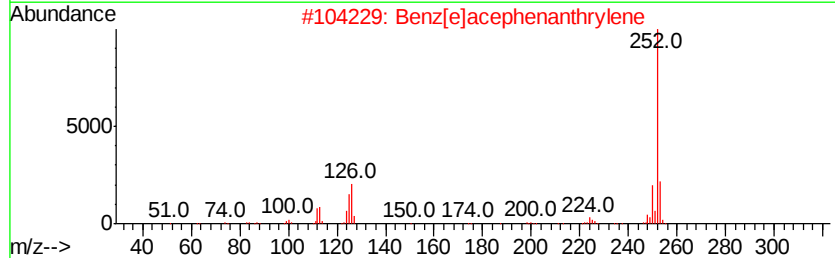
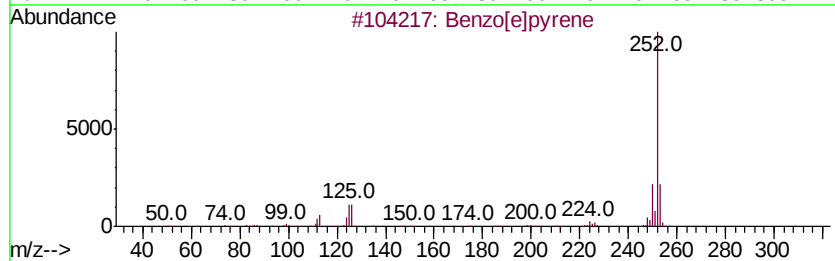
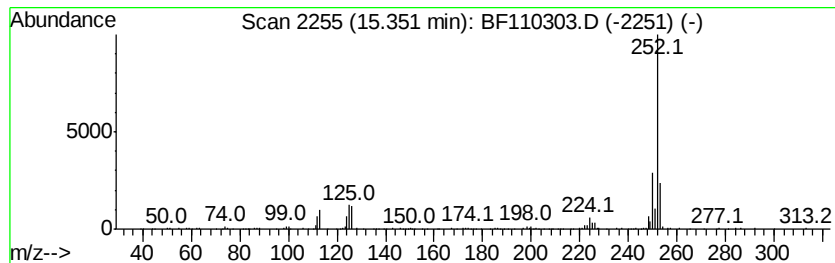
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Benzo[e]pyrene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.35	13.71 ng	252007	Perylene-d12	15.70

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]bpvrene	252	C20H12	000192-97-2	96
2		Benz[e]acephenanthrylene	252	C20H12	000205-99-2	91
3		Benzo[a]bpvrene	252	C20H12	000050-32-8	91
4		Benzo[k]fluoranthene	252	C20H12	000207-08-9	89
5		Perylene	252	C20H12	000198-55-0	81



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103018\
Data File : BF110303.D
Acq On : 30 Oct 2018 15:20
Operator : JU/SJ
Sample : J5724-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RED-SHALE

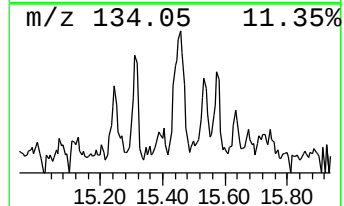
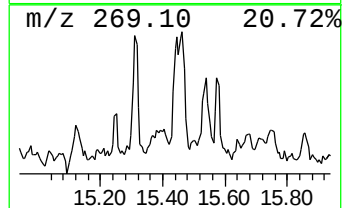
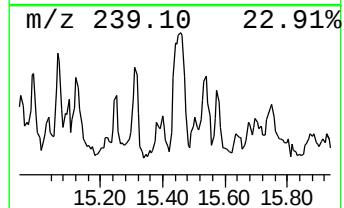
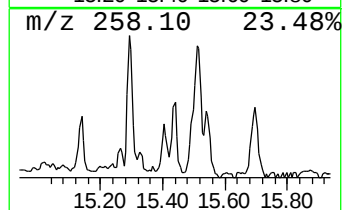
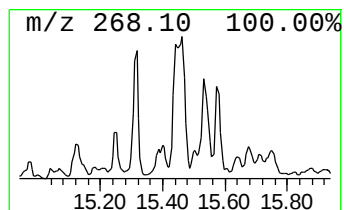
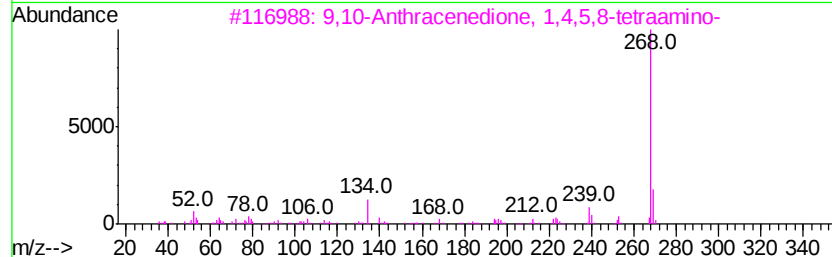
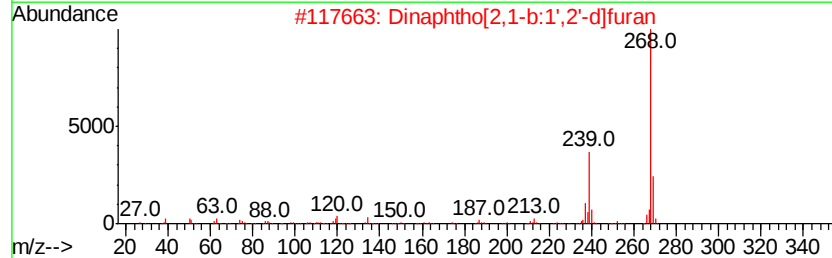
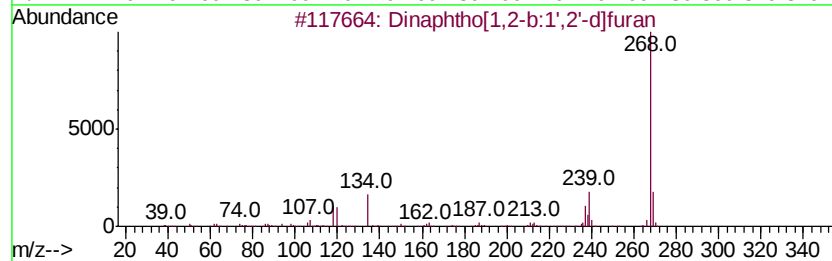
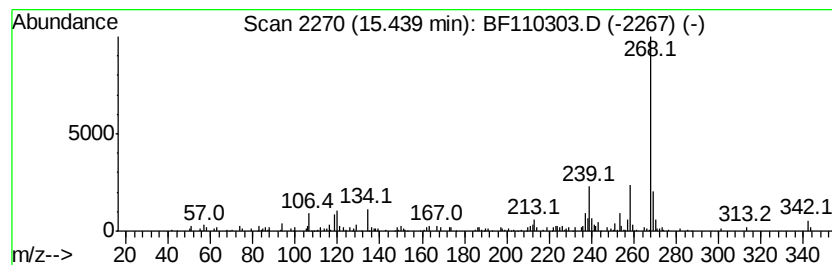
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.44	5.58 ng	102640	Perylene-d12	15.70

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	89
2		Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	68
3		9,10-Anthracenedione, 1,4,5,8-te...	268	C14H12N4O2	002475-45-8	53
4		4H-1-Benzopyran-4-one, 5-hydroxy...	268	C16H12O4	000520-28-5	53
5		9,10-Anthracenedione, 1,5-dimeth...	268	C16H12O4	006448-90-4	50



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103018\
Data File : BF110303.D
Acq On : 30 Oct 2018 15:20
Operator : JU/SJ
Sample : J5724-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RED-SHALE

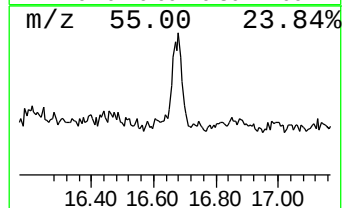
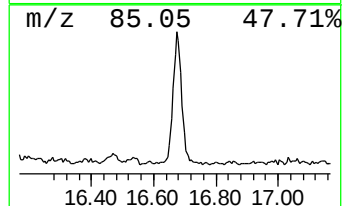
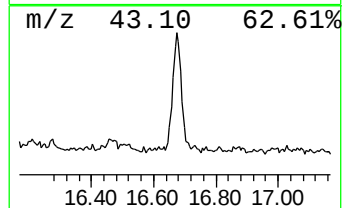
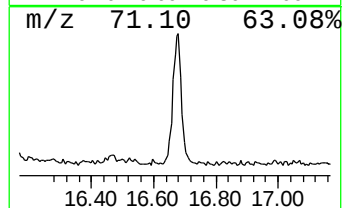
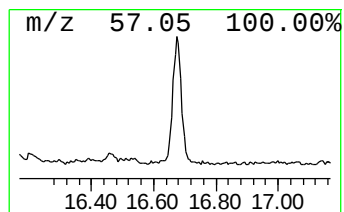
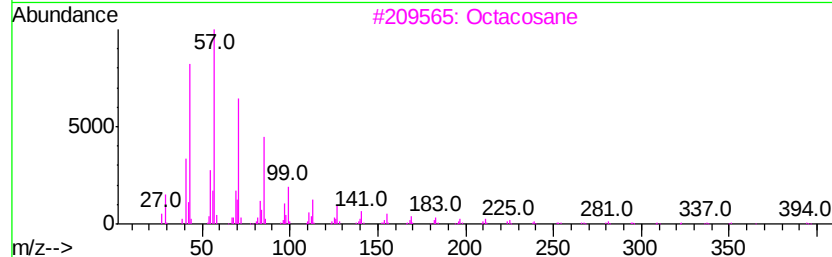
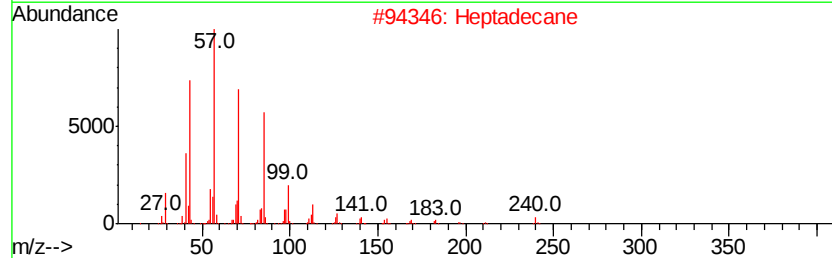
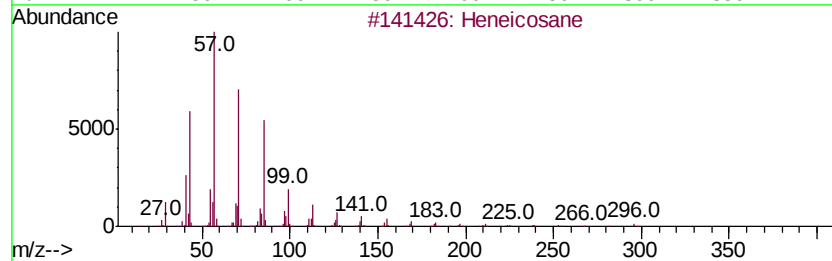
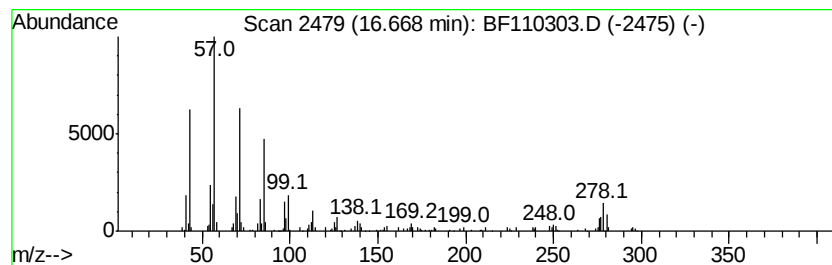
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Heneicosane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.67	15.27 ng	280755	Perylene-d12	15.70

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Heneicosane	296	C21H44	000629-94-7	98
2		Heptadecane	240	C17H36	000629-78-7	74
3		Octacosane	394	C28H58	000630-02-4	72
4		Nonadecane	268	C19H40	000629-92-5	64
5		Octadecane	254	C18H38	000593-45-3	64



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103018\
Data File : BF110303.D
Acq On : 30 Oct 2018 15:20
Operator : JU/SJ
Sample : J5724-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RED-SHALE

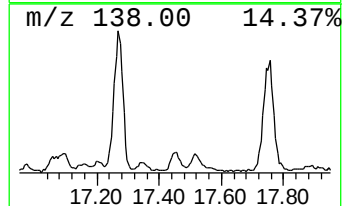
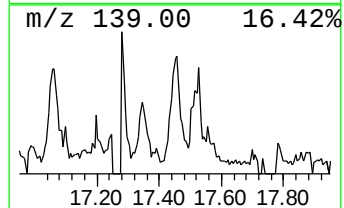
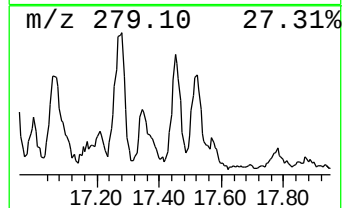
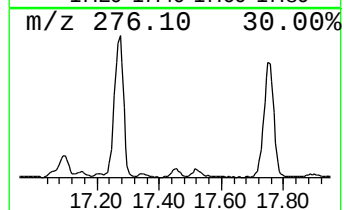
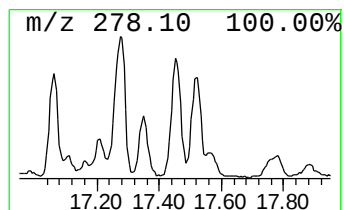
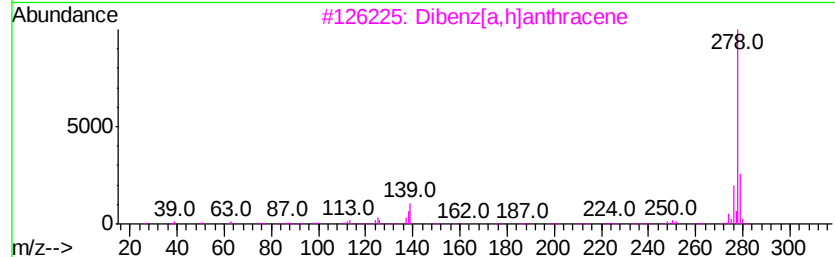
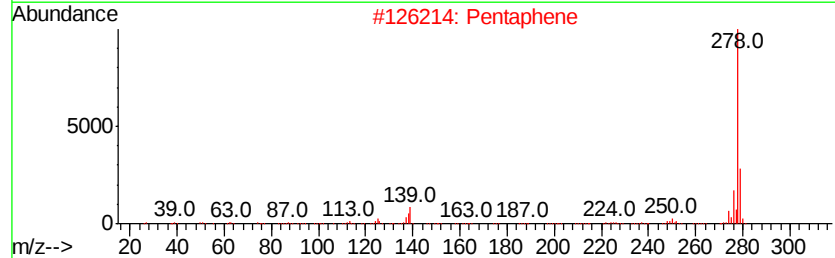
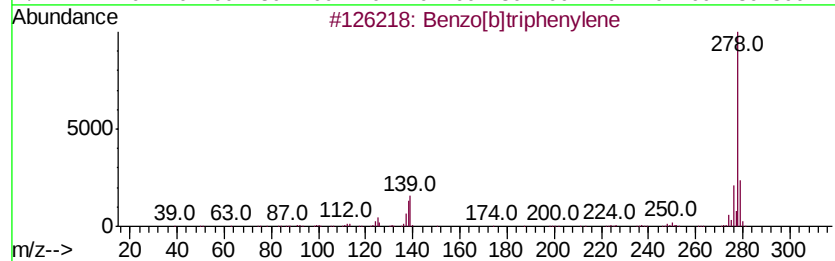
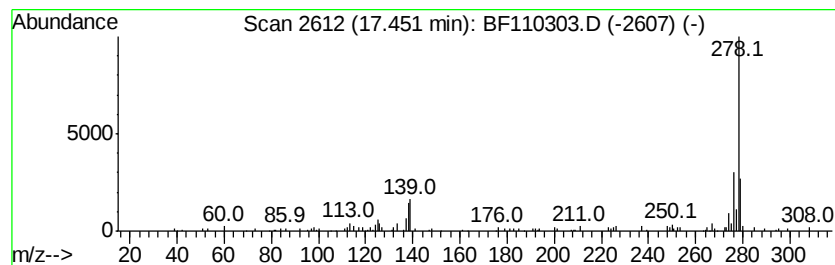
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF102318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Benzo[b]triphenylene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.45	7.34 ng	134998	Perylene-d12	15.70

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
2		Pentaphene	278	C22H14	000222-93-5	96
3		Dibenz[a,h]anthracene	278	C22H14	000053-70-3	95
4		Benzo[b]chrysene	278	C22H14	000214-17-5	95
5		Benzo[a]naphthacene	278	C22H14	000226-88-0	95



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF103018\
 Data File : BF110303.D
 Acq On : 30 Oct 2018 15:20
 Operator : JU/SJ
 Sample : J5724-04
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALE

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.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
Butane, 2-methoxy...	2.33	15.1	ng	513083	1	6.97	681788	20.0
unknown6.74	6.74	67.8	ng	2310960	1	6.97	681788	20.0
Phenol, 4-(1,1-di...	9.42	9.7	ng	449957	3	10.01	928427	20.0
Benzene, (1-butyl...	10.62	6.9	ng	318721	3	10.01	928427	20.0
Benzene, (1-ethyl...	11.26	8.5	ng	362732	4	11.51	855315	20.0
Clorophene	11.91	6.1	ng	259554	4	11.51	855315	20.0
Phenanthrene, 2-m...	12.01	9.1	ng	388410	4	11.51	855315	20.0
Phenanthrene, 1-m...	12.04	9.8	ng	417397	4	11.51	855315	20.0
4H-Cyclopenta[def...	12.13	17.1	ng	733344	4	11.51	855315	20.0
Squalene	15.00	6.0	ng	109325	6	15.70	367657	20.0
7,12-Dihydrobenzo...	15.06	9.2	ng	168283	6	15.70	367657	20.0
Benzo[e]pyrene	15.35	13.7	ng	252007	6	15.70	367657	20.0
Dinaphtho[1,2-b:1...	15.44	5.6	ng	102640	6	15.70	367657	20.0
Heneicosane	16.67	15.3	ng	280755	6	15.70	367657	20.0
Benzo[b]triphenylene	17.45	7.3	ng	134998	6	15.70	367657	20.0