

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012419\  
 Data File : BF112209.D  
 Acq On : 24 Jan 2019 15:24  
 Operator : JU/SJ  
 Sample : K1016-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-RO-1-012319

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-BF011619.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.487	574	578	592	rBV	3701336	3480826	7.73%	1.965%
2	6.498	745	750	768	rBV	3805276	3661073	8.13%	2.067%
3	6.628	768	772	775	rBV	4420711	3811774	8.46%	2.152%
4	6.851	806	810	817	rBV	1261794	1015255	2.25%	0.573%
5	7.010	833	837	840	rBV	3442141	2915957	6.47%	1.646%
6	7.410	901	905	910	rBV	2292352	2158396	4.79%	1.219%
7	8.134	1022	1028	1031	rBV	1440118	1364786	3.03%	0.771%
8	9.210	1206	1211	1214	rBV	4402585	4130829	9.17%	2.332%
9	9.886	1323	1326	1329	rVB	1525050	1297081	2.88%	0.732%
10	9.928	1329	1333	1336	rVB2	960391	999533	2.22%	0.564%
11	10.092	1357	1361	1365	rBV	635646	541464	1.20%	0.306%
12	10.433	1416	1419	1425	rVB	1250086	1132880	2.52%	0.640%
13	10.681	1455	1461	1466	rBV	2886947	2747096	6.10%	1.551%
14	10.892	1494	1497	1501	rVB	2141487	1651784	3.67%	0.933%
15	11.269	1557	1561	1567	rVB	496917	512574	1.14%	0.289%
16	11.375	1576	1579	1581	rBV	1286899	1269790	2.82%	0.717%
17	11.404	1581	1584	1587	rVV	6263593	5655325	12.56%	3.193%
18	11.451	1589	1592	1595	rVB	2049093	1665093	3.70%	0.940%
19	11.669	1626	1629	1630	rBV2	506127	484567	1.08%	0.274%
20	11.686	1630	1632	1635	rVB	2590159	1933378	4.29%	1.092%
21	11.780	1641	1648	1651	rBV	14586643	22549626	50.07%	12.732%
22	11.880	1661	1665	1667	rBV	697615	659546	1.46%	0.372%
23	11.910	1667	1670	1675	rVV2	1477710	1718503	3.82%	0.970%
24	11.992	1681	1684	1686	rVV	1621167	1497905	3.33%	0.846%
25	12.086	1697	1700	1703	rVB	655705	552781	1.23%	0.312%
26	12.169	1711	1714	1718	rBV2	1009302	1037603	2.30%	0.586%
27	12.492	1755	1769	1770	rBV5	15765115	45037422	100.00%	25.429%
28	12.545	1777	1778	1779	rVB	1343431	473559	1.05%	0.267%
29	12.575	1779	1783	1785	rBV	11679926	11350111	25.20%	6.408%
30	12.604	1785	1788	1790	rBV	5779487	5582905	12.40%	3.152%
31	12.833	1822	1827	1834	rVB	4262612	6277773	13.94%	3.544%
32	12.969	1844	1850	1853	rBV2	3284950	3225806	7.16%	1.821%
33	13.057	1859	1865	1871	rBV4	406955	920259	2.04%	0.520%
34	13.133	1874	1878	1879	rBV3	389820	481791	1.07%	0.272%

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012419\  
 Data File : BF112209.D  
 Acq On : 24 Jan 2019 15:24  
 Operator : JU/SJ  
 Sample : K1016-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-RO-1-012319

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-BF011619.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	13.157	1879	1882	1885	rVV	1235525	1124196	2.50%	0.635%
36	13.204	1885	1890	1891	rVV	1325279	1425668	3.17%	0.805%
37	13.222	1891	1893	1896	rVB	1100614	882680	1.96%	0.498%
38	13.263	1896	1900	1901	rBV2	420500	452269	1.00%	0.255%
39	13.280	1901	1903	1906	rVB	1029859	750783	1.67%	0.424%
40	13.386	1917	1921	1926	rVV2	523065	611325	1.36%	0.345%
41	13.769	1983	1986	1989	rVV2	492419	562267	1.25%	0.317%
42	13.822	1993	1995	1998	rVV2	442861	597108	1.33%	0.337%
43	13.851	1998	2000	2007	rVB2	574826	866671	1.92%	0.489%
44	13.945	2013	2016	2021	rVB2	959463	941850	2.09%	0.532%
45	14.016	2021	2028	2032	rBV2	3720045	5429195	12.05%	3.065%
46	14.051	2032	2034	2041	rVB	3014415	2446589	5.43%	1.381%
47	14.169	2051	2054	2058	rVV3	422536	453216	1.01%	0.256%
48	14.245	2064	2067	2072	rBV2	328865	467524	1.04%	0.264%
49	14.404	2090	2094	2097	rVB	496295	576740	1.28%	0.326%
50	14.557	2118	2120	2124	rVB2	393540	537881	1.19%	0.304%
51	15.074	2202	2208	2210	rBV	2400824	3798431	8.43%	2.145%
52	15.121	2214	2216	2222	rVB2	512269	561198	1.25%	0.317%
53	15.174	2222	2225	2229	rBV	527948	537858	1.19%	0.304%
54	15.374	2255	2259	2265	rVB	1457078	1846000	4.10%	1.042%
55	15.439	2265	2270	2275	rBV	2306913	2766941	6.14%	1.562%
56	15.498	2276	2280	2283	rVV	1365222	1800333	4.00%	1.016%
57	15.527	2283	2285	2292	rVB2	593345	815920	1.81%	0.461%
58	15.939	2351	2355	2359	rVB2	401904	549679	1.22%	0.310%
59	16.980	2526	2532	2538	rBV2	729176	1495165	3.32%	0.844%
60	17.433	2603	2609	2618	rVB	505125	1021058	2.27%	0.576%

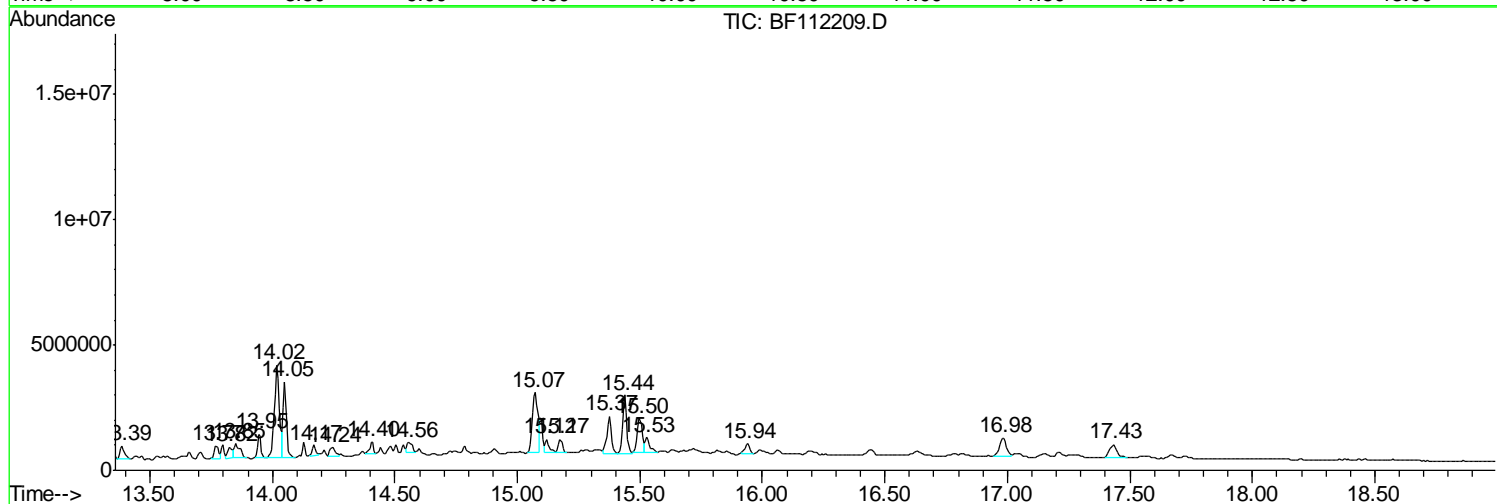
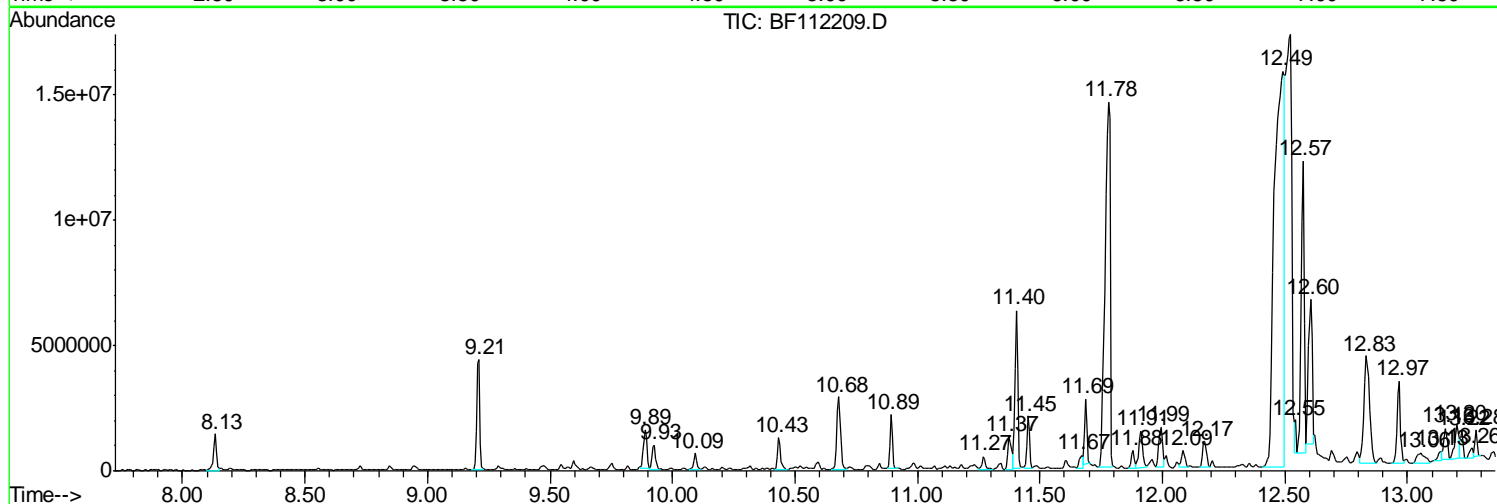
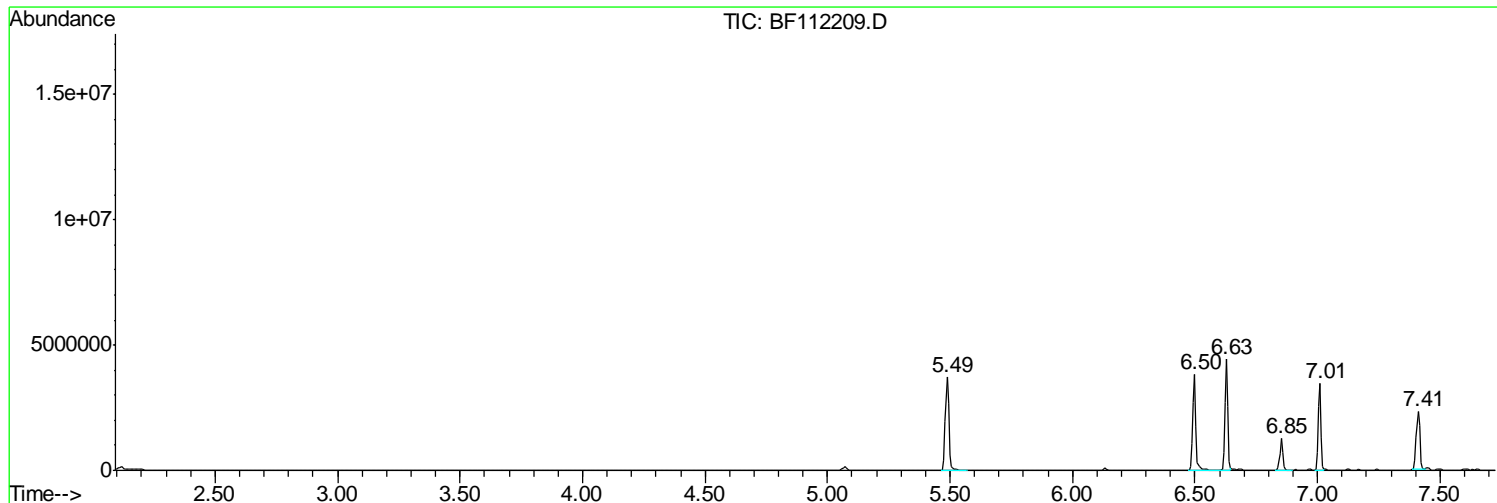
Sum of corrected areas: 177113596

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012419\  
 Data File : BF112209.D  
 Acq On : 24 Jan 2019 15:24  
 Operator : JU/SJ  
 Sample : K1016-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-RO-1-012319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.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\BF012419\  
 Data File : BF112209.D  
 Acq On : 24 Jan 2019 15:24  
 Operator : JU/SJ  
 Sample : K1016-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleID :  
 TR-05-RO-1-012319

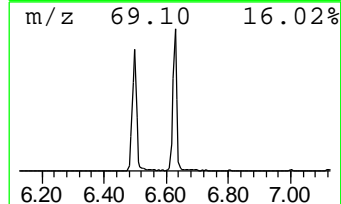
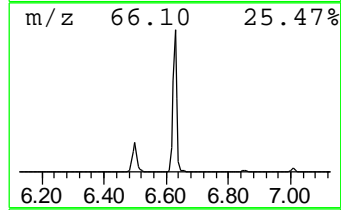
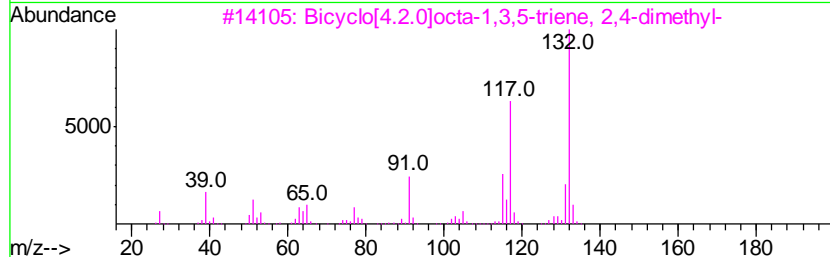
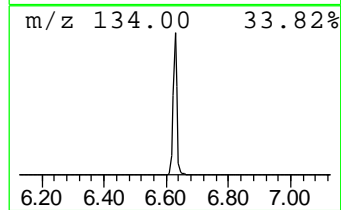
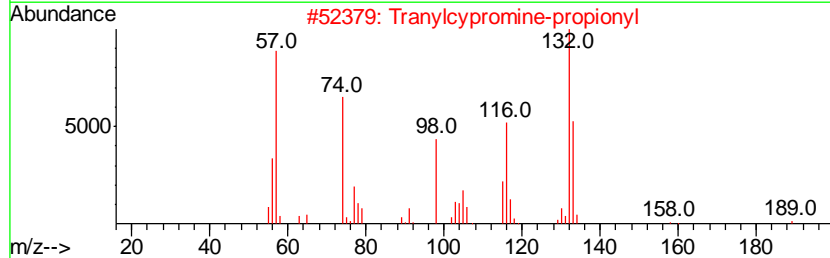
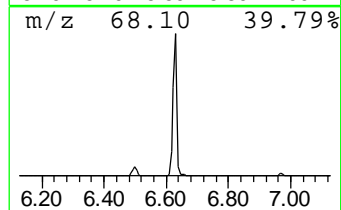
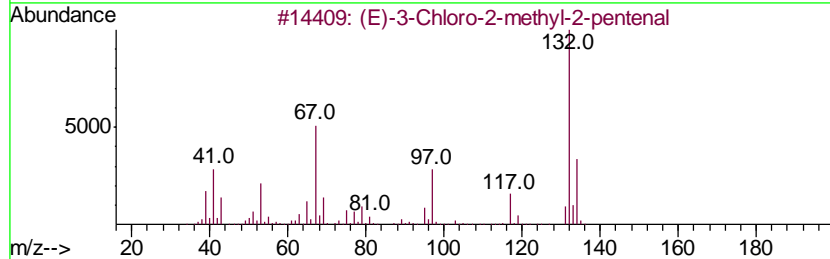
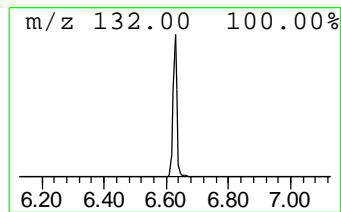
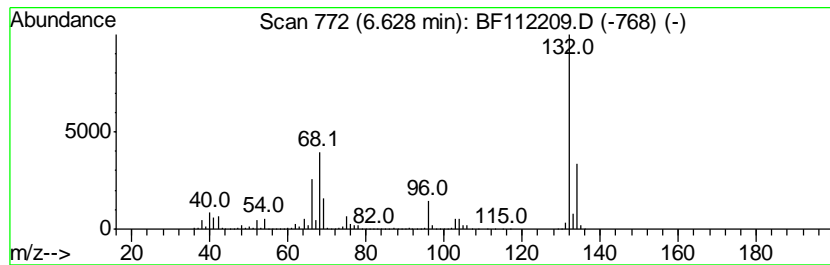
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
 Peak Number 1 unknown6.63 Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.63	75.09 ng	3811770	1,4-Dichlorobenzene-d4	6.85

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012419\  
 Data File : BF112209.D  
 Acq On : 24 Jan 2019 15:24  
 Operator : JU/SJ  
 Sample : K1016-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-RO-1-012319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

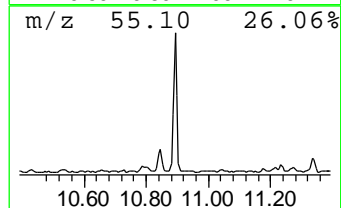
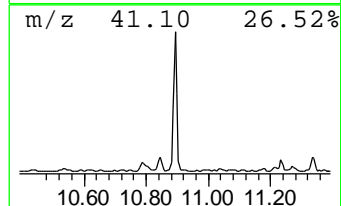
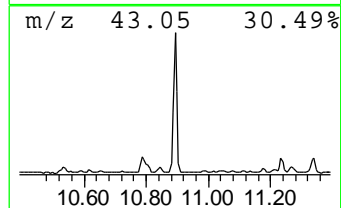
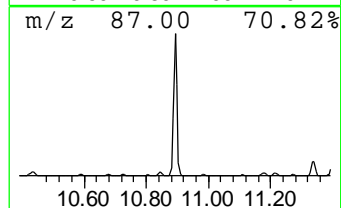
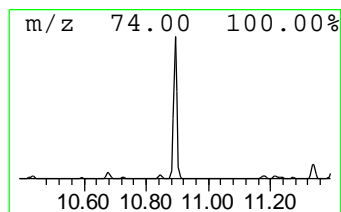
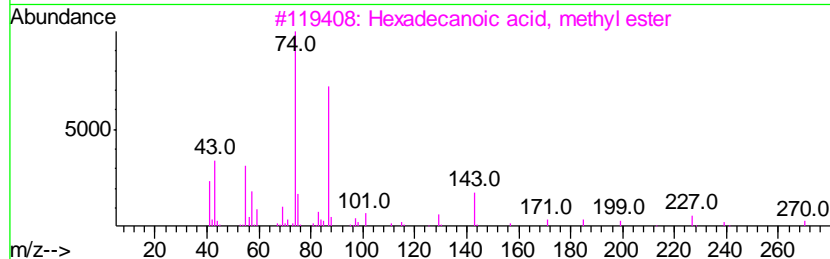
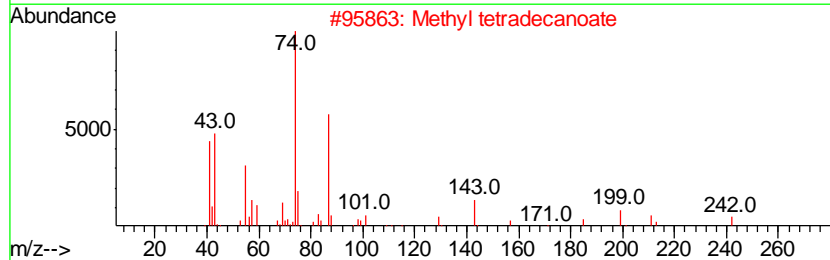
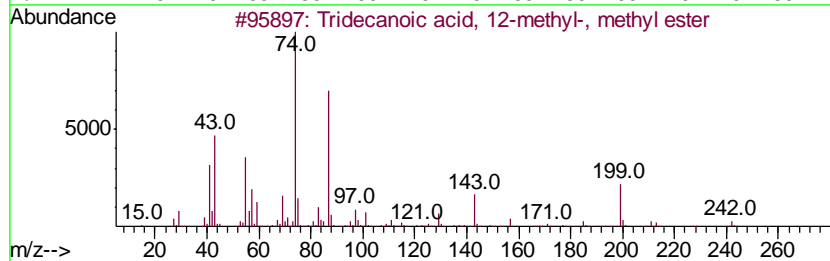
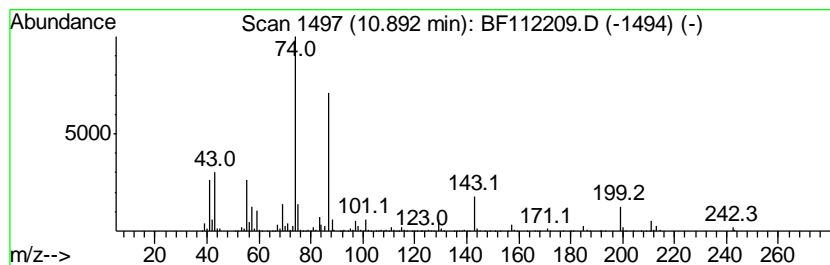
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 3 Tridecanoic acid, 12-methyl... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.89	26.02 ng	1651780	Phenanthrene-d10	11.37

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Tridecanoic acid, 12-methyl-, me...	242	C15H30O2	005129-58-8	94
2		Methyl tetradecanoate	242	C15H30O2	000124-10-7	91
3		Hexadecanoic acid, methyl ester	270	C17H34O2	000112-39-0	87
4		Decanoic acid, methyl ester	186	C11H22O2	000110-42-9	86
5		Tridecanoic acid, methyl ester	228	C14H28O2	001731-88-0	86



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012419\  
 Data File : BF112209.D  
 Acq On : 24 Jan 2019 15:24  
 Operator : JU/SJ  
 Sample : K1016-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-RO-1-012319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

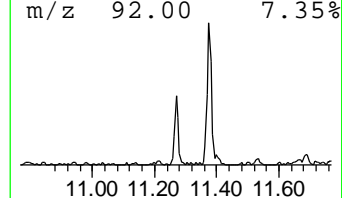
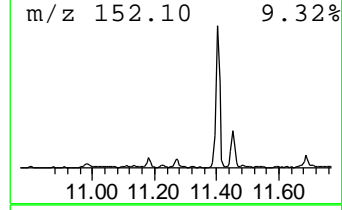
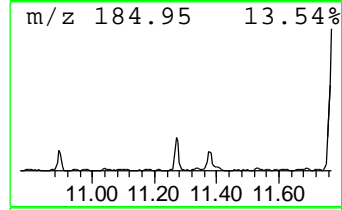
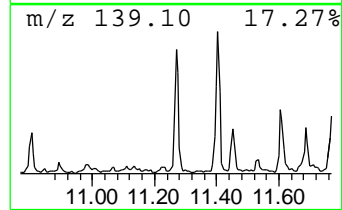
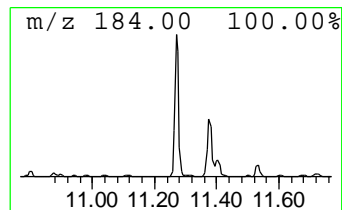
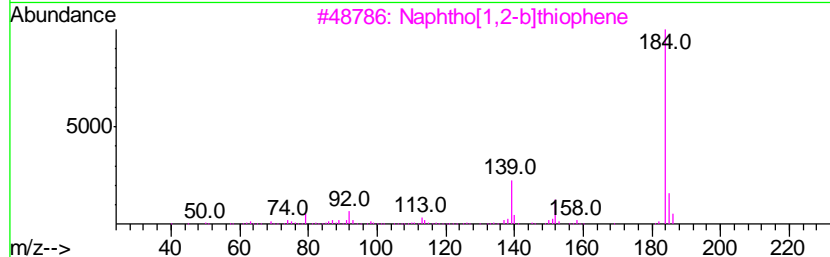
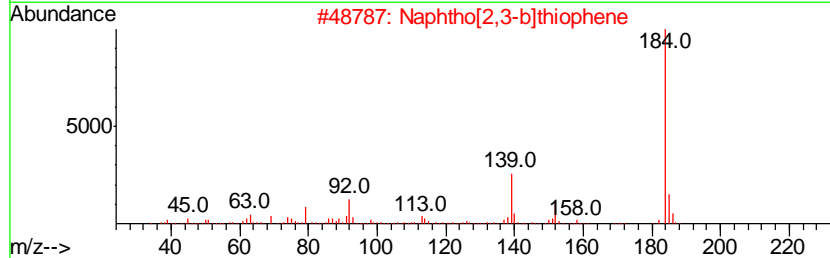
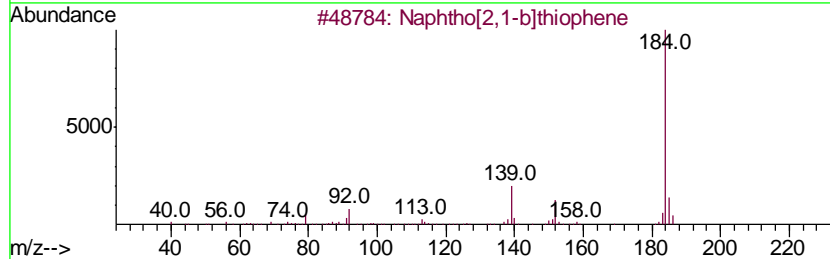
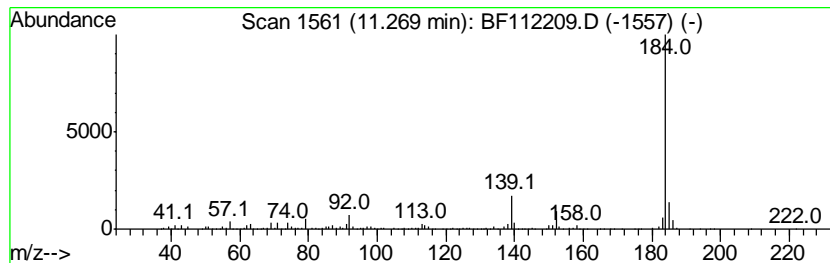
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 4 Naphtho[2,1-b]thiophene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.27	8.07 ng	512574	Phenanthrene-d10	11.37

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2		Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	97
3		Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	96
4		Dibenzothiophene	184	C12H8S	000132-65-0	96
5		Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	87



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012419\  
 Data File : BF112209.D  
 Acq On : 24 Jan 2019 15:24  
 Operator : JU/SJ  
 Sample : K1016-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-RO-1-012319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

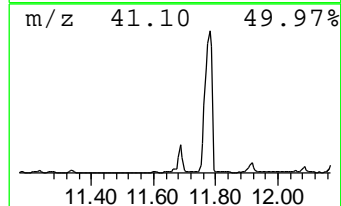
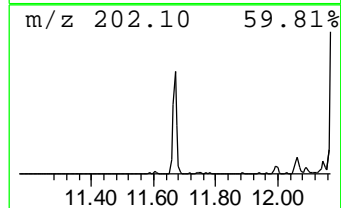
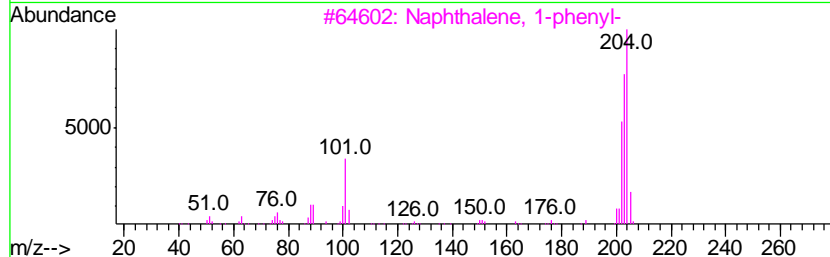
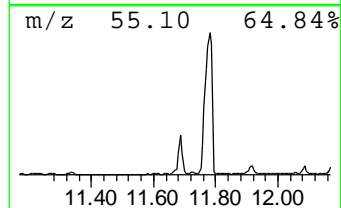
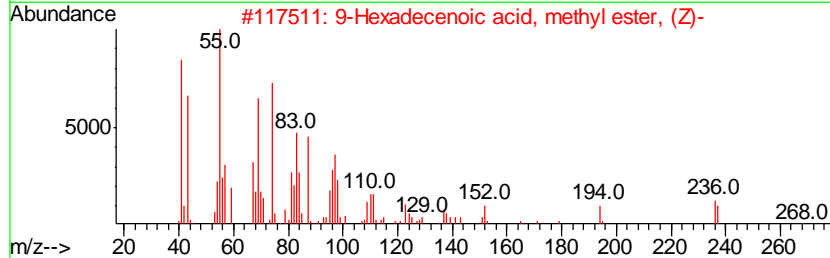
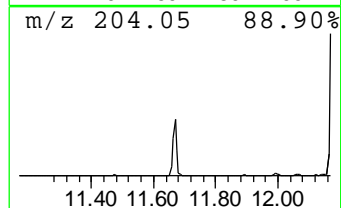
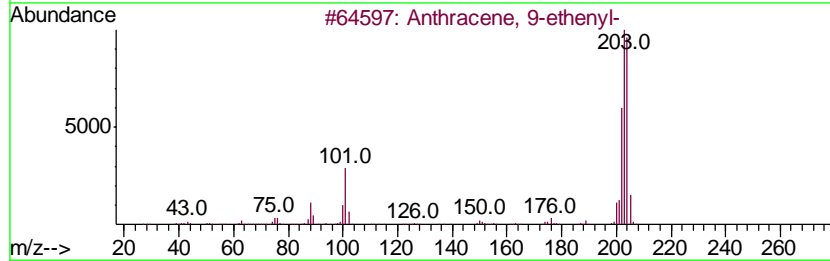
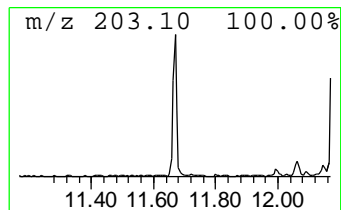
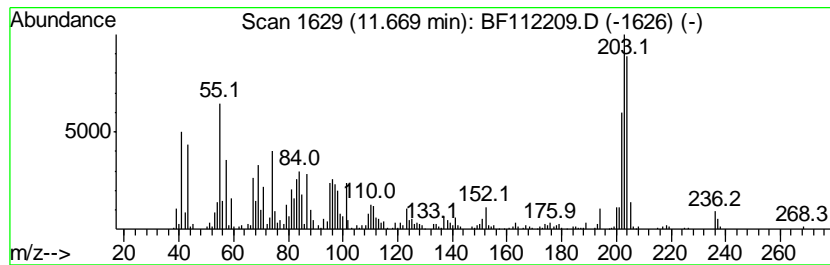
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 5 Anthracene, 9-ethenyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.67	7.63 ng	484567	Phenanthrene-d10	11.37

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	95
2		9-Hexadecenoic acid, methyl este...	268	C17H32O2	001120-25-8	90
3		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	81
4		1H-Indene, 1-(phenylmethylene)-	204	C16H12	005394-86-5	70
5		Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	70



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012419\  
 Data File : BF112209.D  
 Acq On : 24 Jan 2019 15:24  
 Operator : JU/SJ  
 Sample : K1016-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-RO-1-012319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

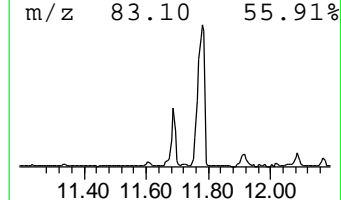
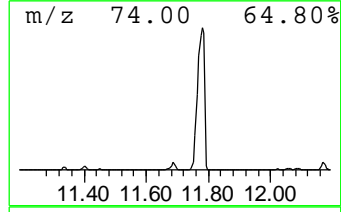
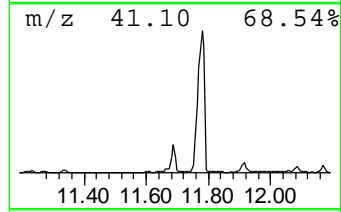
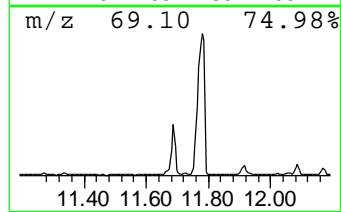
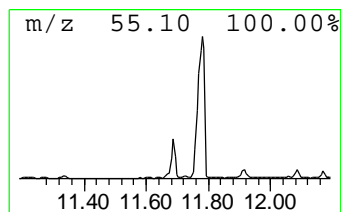
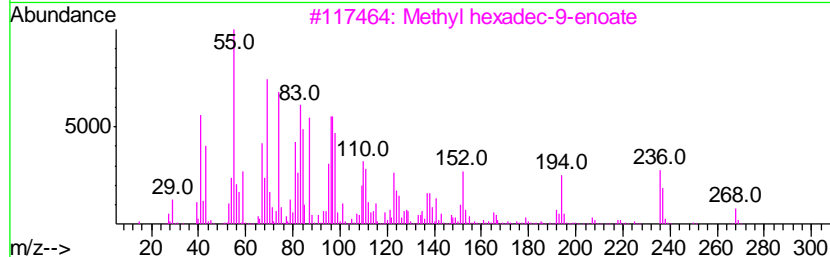
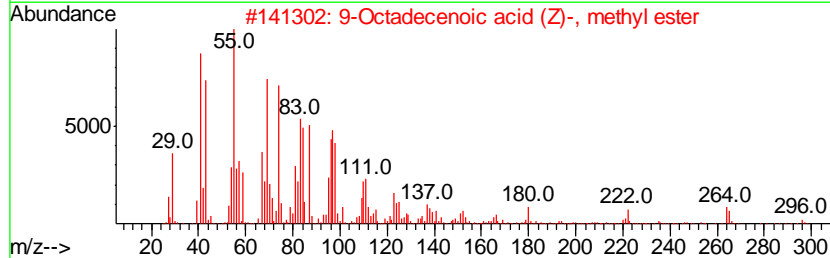
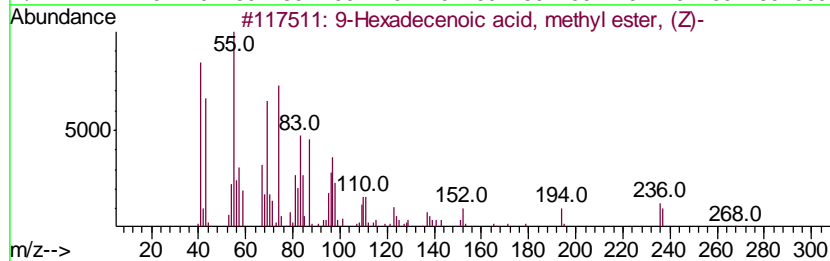
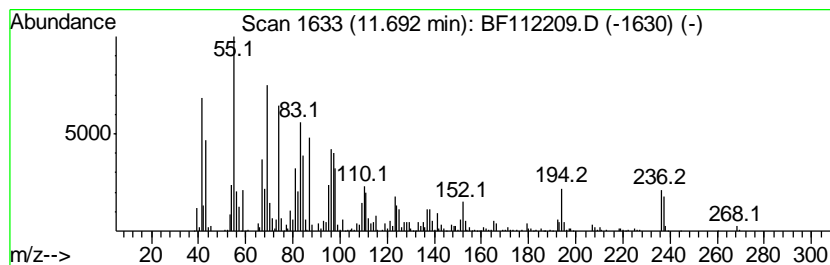
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 6 9-Hexadecenoic acid, methyl... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.69	30.45 ng	1933380	Phenanthrene-d10	11.37

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9-Hexadecenoic acid, methyl este...	268	C17H32O2	001120-25-8	99
2		9-Octadecenoic acid (Z)-, methyl...	296	C19H36O2	000112-62-9	93
3		Methyl hexadec-9-enoate	268	C17H32O2	010030-74-7	91
4		14-Methylpentadec-9-enoic acid m...	268	C17H32O2	1000365-89-7	91
5		11-Hexadecenoic acid, methyl ester	268	C17H32O2	055000-42-5	87





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012419\  
 Data File : BF112209.D  
 Acq On : 24 Jan 2019 15:24  
 Operator : JU/SJ  
 Sample : K1016-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-RO-1-012319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

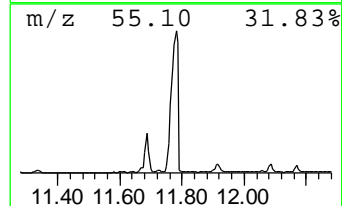
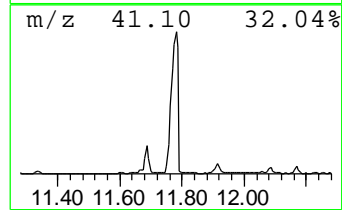
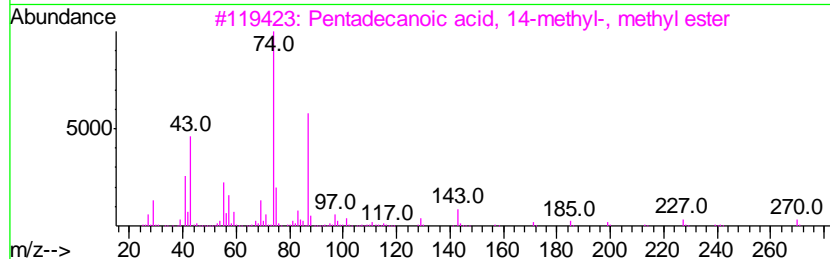
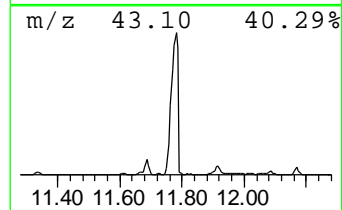
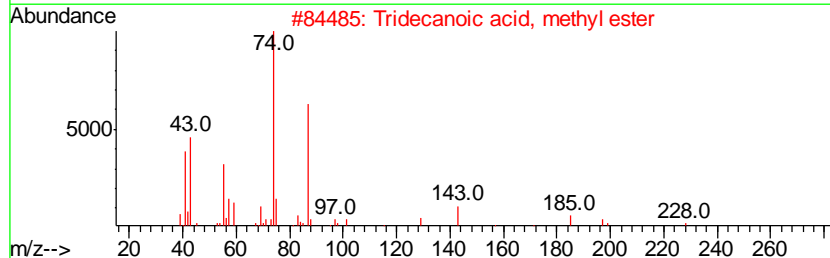
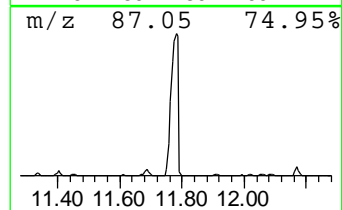
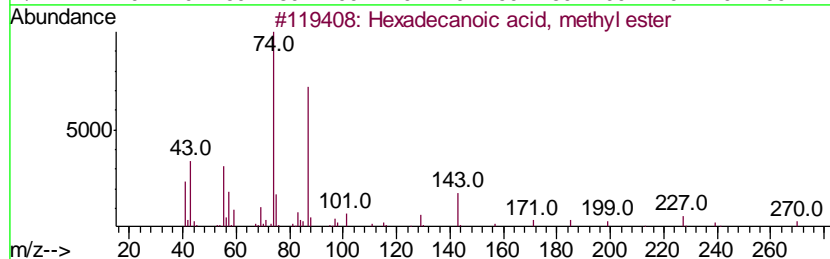
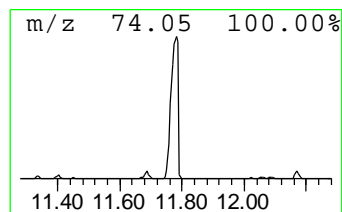
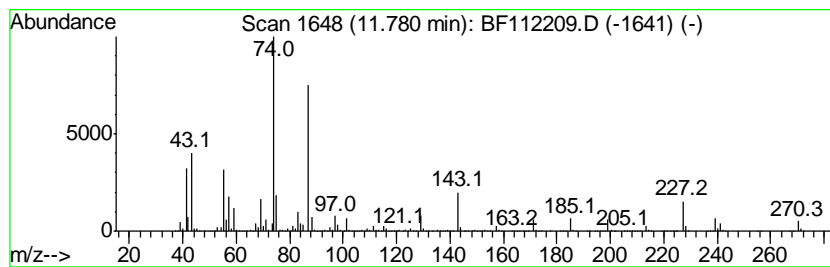
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 7 Hexadecanoic acid, methyl e... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.78	355.17 ng	22549600	Phenanthrene-d10	11.37

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Hexadecanoic acid, methyl ester	270	C17H34O2	000112-39-0	97
2		Tridecanoic acid, methyl ester	228	C14H28O2	001731-88-0	96
3		Pentadecanoic acid, 14-methyl-, ...	270	C17H34O2	005129-60-2	95
4		Hexadecanoic acid, 2-methyl-	270	C17H34O2	027147-71-3	83
5		Methyl 9-methyltetradecanoate	256	C16H32O2	213617-69-7	83



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012419\  
 Data File : BF112209.D  
 Acq On : 24 Jan 2019 15:24  
 Operator : JU/SJ  
 Sample : K1016-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-RO-1-012319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

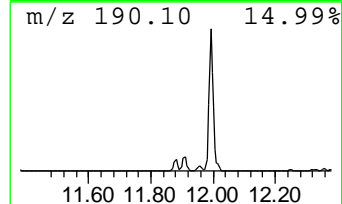
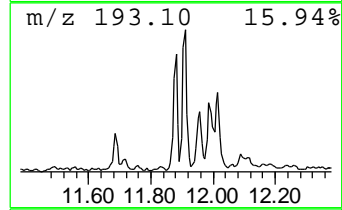
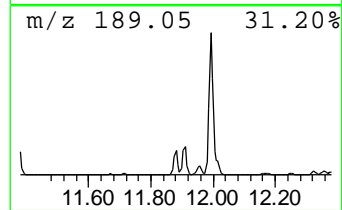
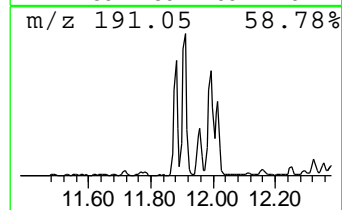
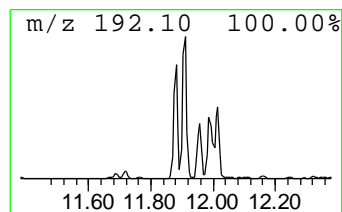
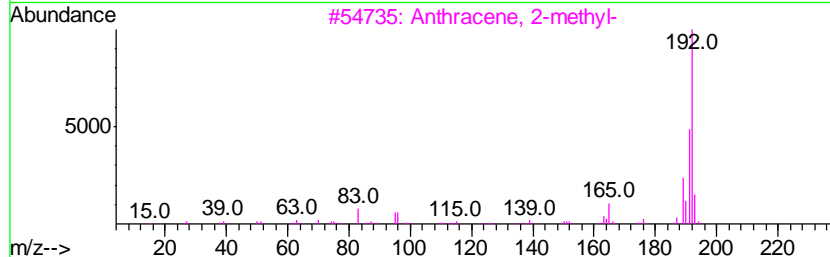
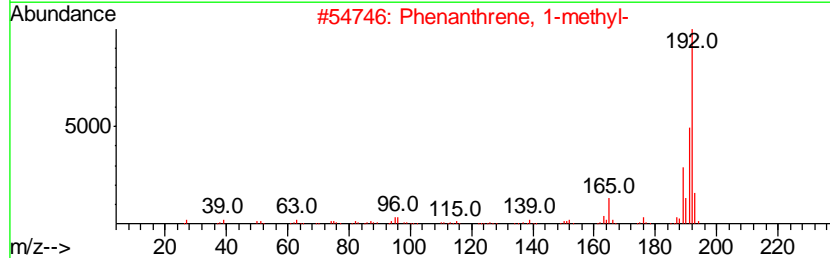
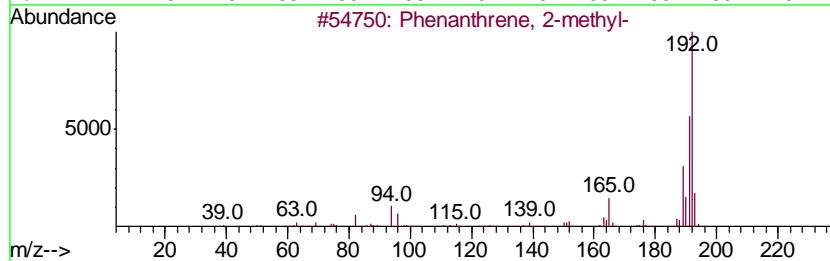
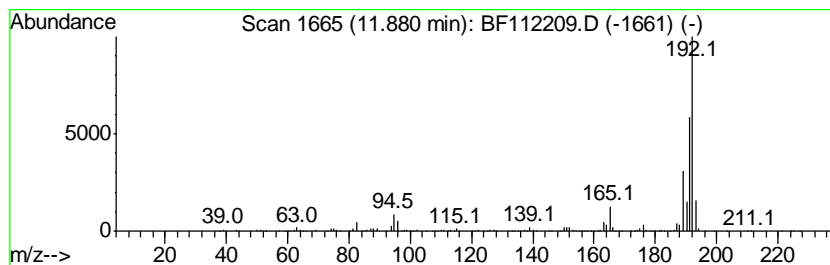
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.88	10.39 ng	659546	Phenanthrene-d10	11.37

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3		Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4		1H-Cyclopropa[1]phenanthrene, 1a,...	192	C15H12	000949-41-7	95
5		Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012419\  
 Data File : BF112209.D  
 Acq On : 24 Jan 2019 15:24  
 Operator : JU/SJ  
 Sample : K1016-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-RO-1-012319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

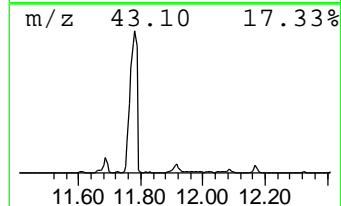
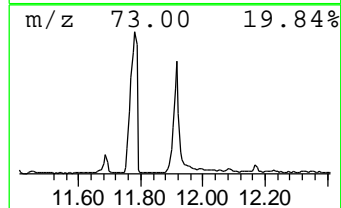
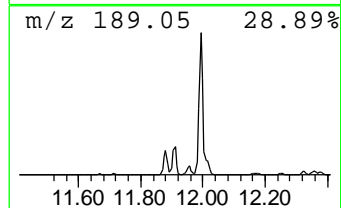
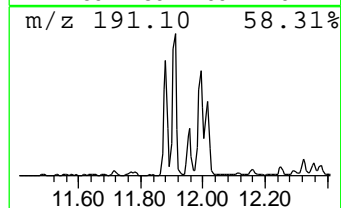
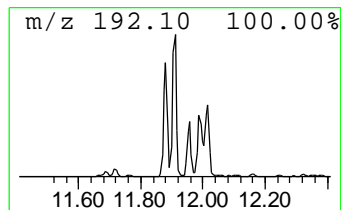
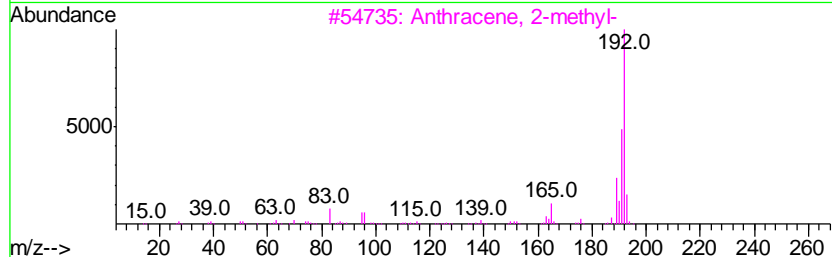
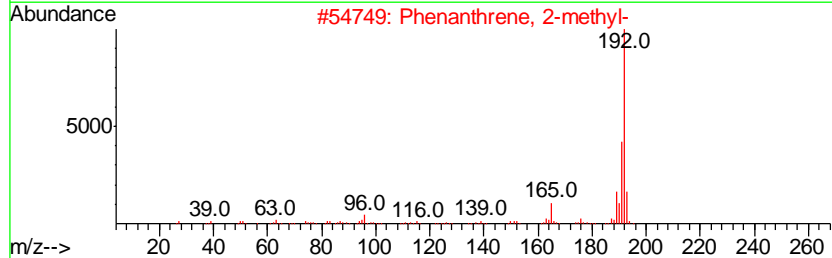
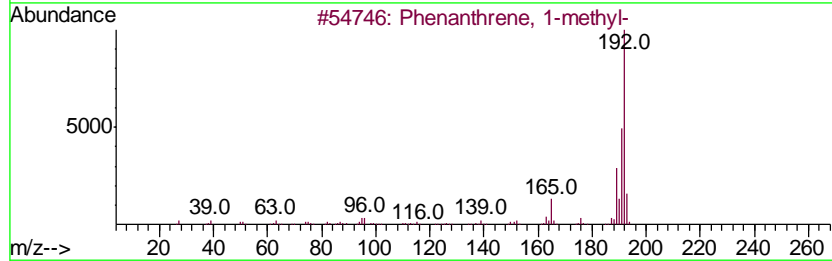
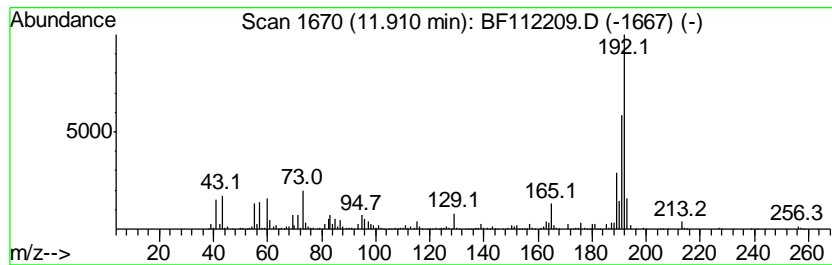
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.91	27.07 ng	1718500	Phenanthrene-d10	11.37

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
3		Anthracene, 2-methyl-	192	C15H12	000613-12-7	97
4		1H-Cyclopropa[1]phenanthrene, 1a, ...	192	C15H12	000949-41-7	96
5		1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	93



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012419\  
 Data File : BF112209.D  
 Acq On : 24 Jan 2019 15:24  
 Operator : JU/SJ  
 Sample : K1016-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampled :  
 TR-05-RO-1-012319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

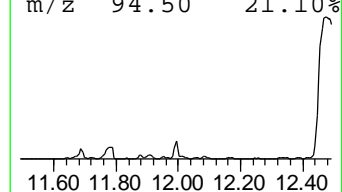
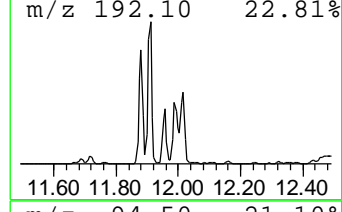
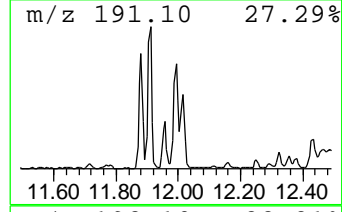
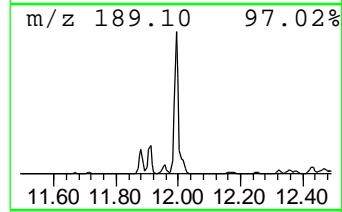
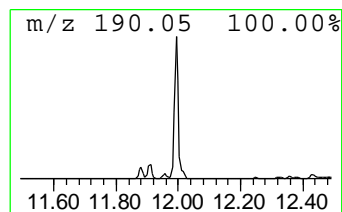
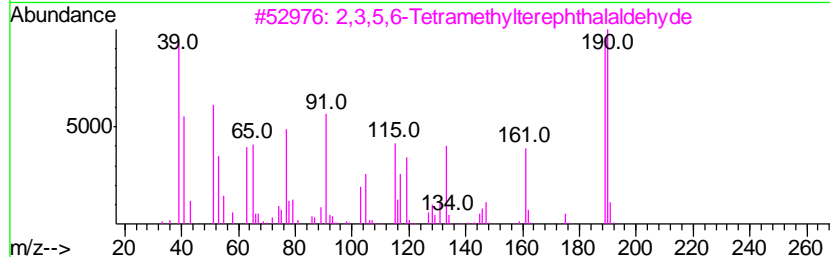
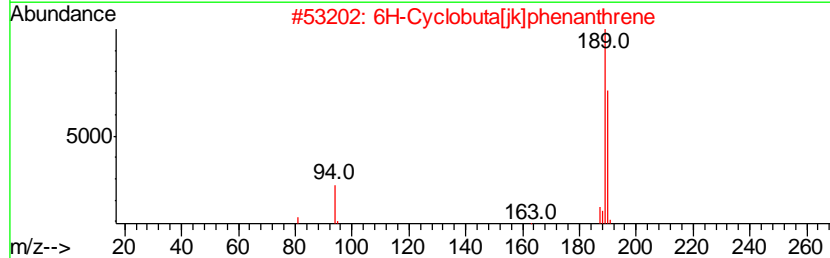
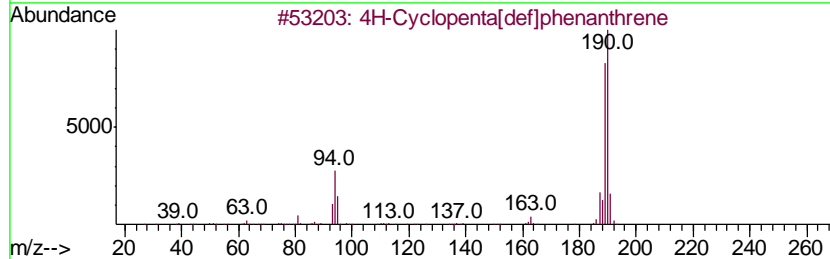
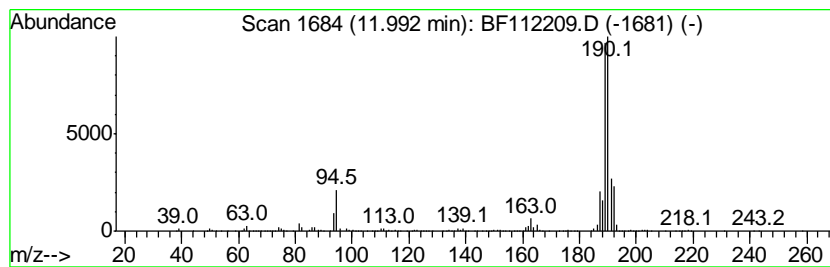
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	23.59 ng	1497910	Phenanthrene-d10	11.37

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2		6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	64
3		2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
4		Methyl diselenide	190	C2H6Se2	007101-31-7	49
5		2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012419\  
 Data File : BF112209.D  
 Acq On : 24 Jan 2019 15:24  
 Operator : JU/SJ  
 Sample : K1016-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleID :  
 TR-05-RO-1-012319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

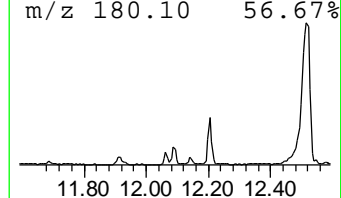
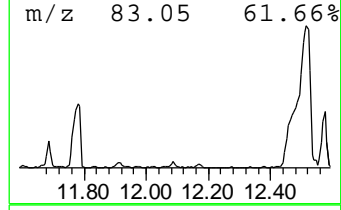
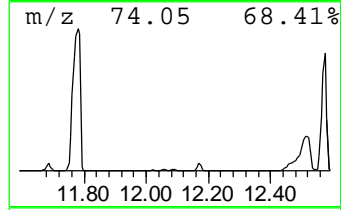
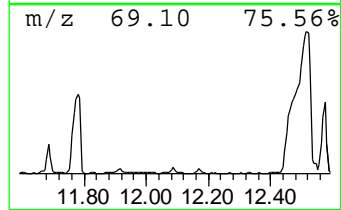
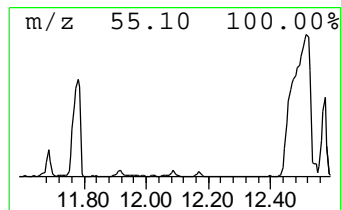
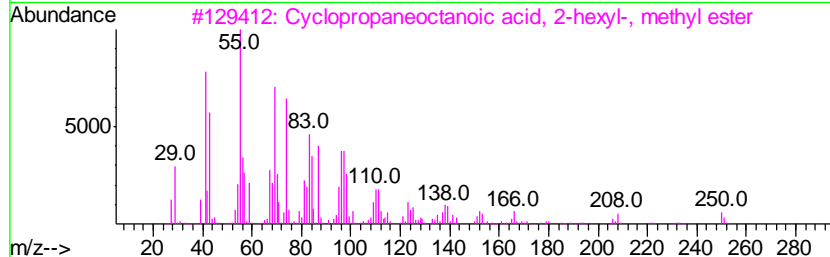
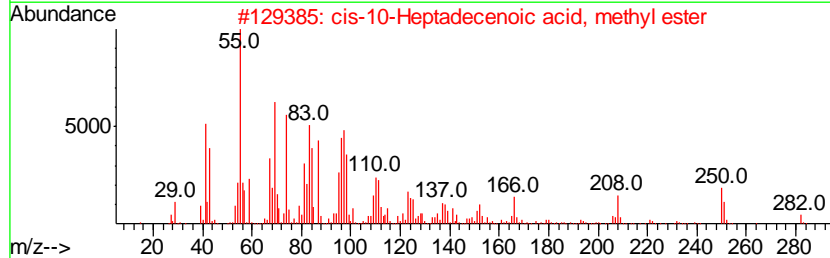
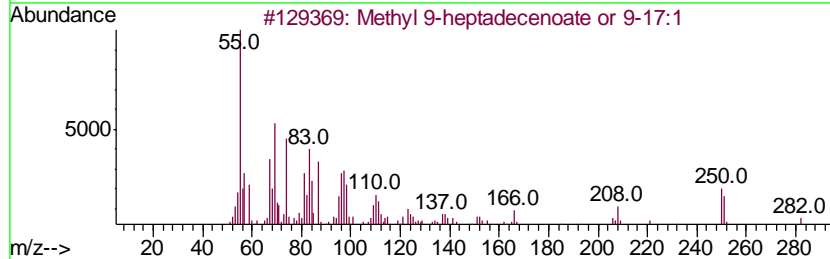
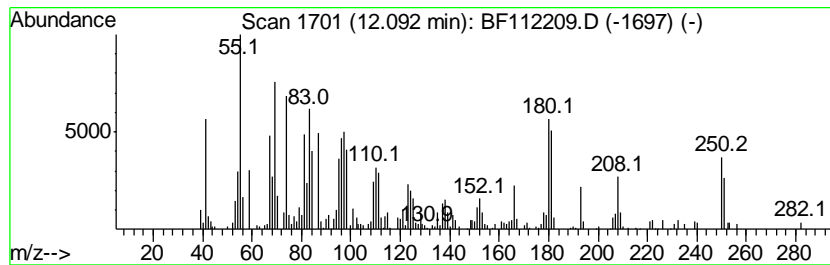
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 11 Methyl 9-heptadecenoate or ... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.09	8.71 ng	552781	Phenanthrene-d10	11.37

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Methyl 9-heptadecenoate or 9-17:1	282	C18H34O2	1000336-38-0	95
2		cis-10-Heptadecenoic acid, methyl...	282	C18H34O2	1000333-62-1	90
3		Cyclopropanoic acid, 2-hex...	282	C18H34O2	010152-61-1	62
4		9-Octadecenoic acid (Z)-, methyl...	296	C19H36O2	000112-62-9	60
5		7-Hexadecenoic acid, methyl este...	268	C17H32O2	056875-67-3	49



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012419\  
 Data File : BF112209.D  
 Acq On : 24 Jan 2019 15:24  
 Operator : JU/SJ  
 Sample : K1016-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampled :  
 TR-05-RO-1-012319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

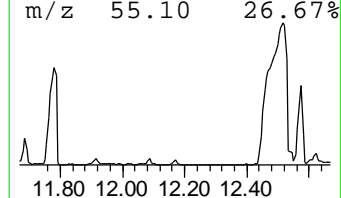
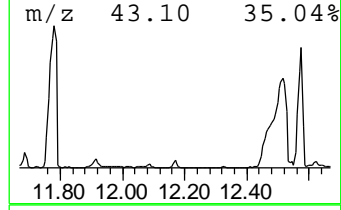
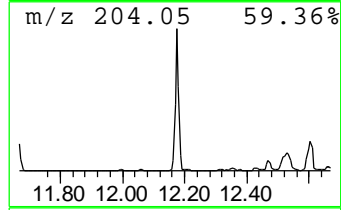
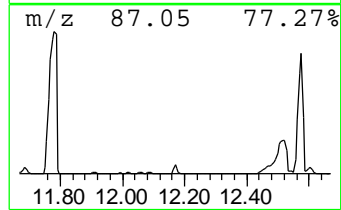
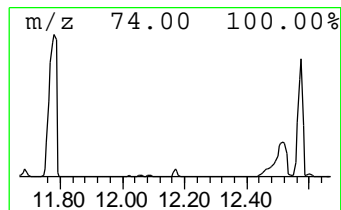
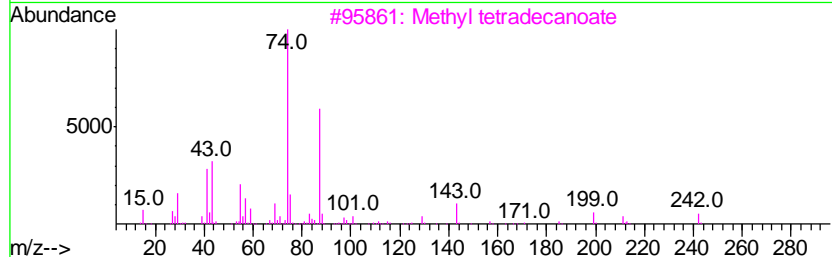
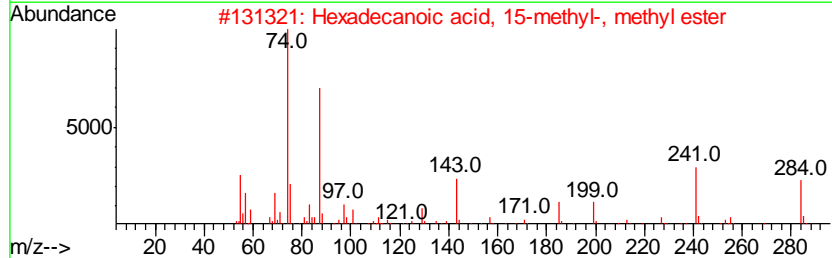
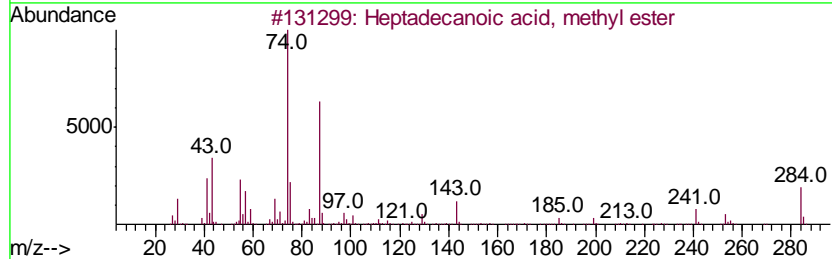
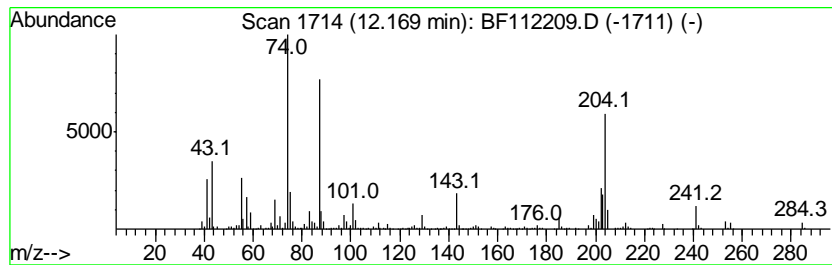
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 12 Heptadecanoic acid, methyl ... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.17	16.34 ng	1037600	Phenanthrene-d10	11.37

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Heptadecanoic acid, methyl ester	284	C18H36O2	001731-92-6	95
2		Hexadecanoic acid, 15-methyl-, m...	284	C18H36O2	006929-04-0	93
3		Methyl tetradecanoate	242	C15H30O2	000124-10-7	60
4		Undecanoic acid, methyl ester	200	C12H24O2	001731-86-8	58
5		Hexadecanoic acid, 14-methyl-, m...	284	C18H36O2	002490-49-5	55



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012419\  
 Data File : BF112209.D  
 Acq On : 24 Jan 2019 15:24  
 Operator : JU/SJ  
 Sample : K1016-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleID :  
 TR-05-RO-1-012319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

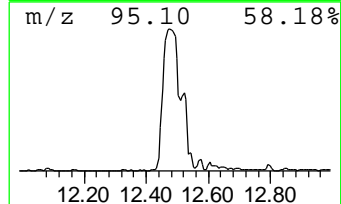
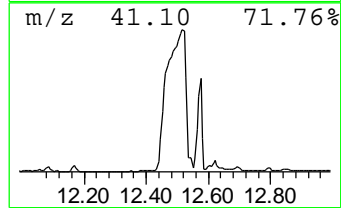
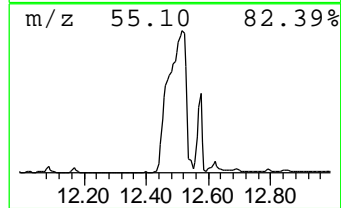
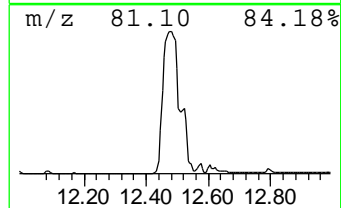
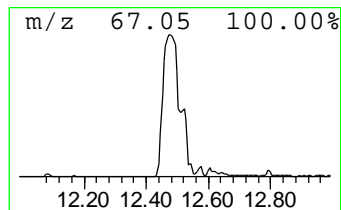
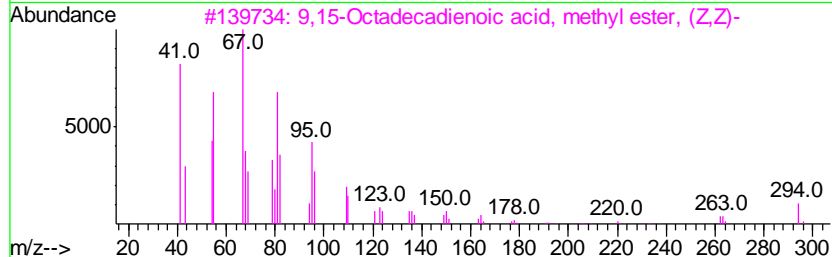
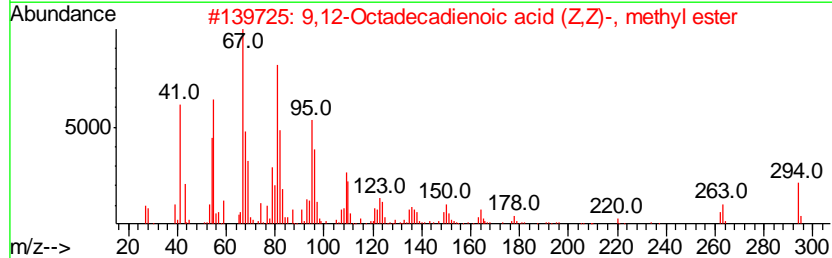
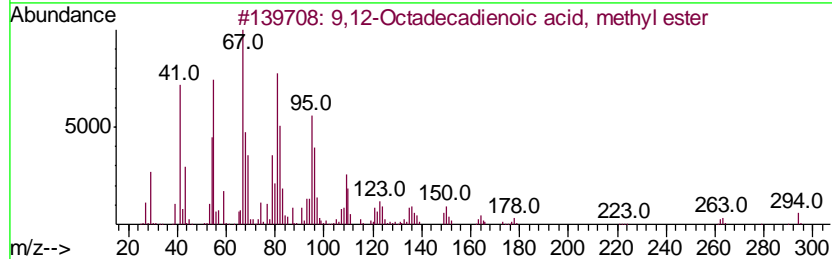
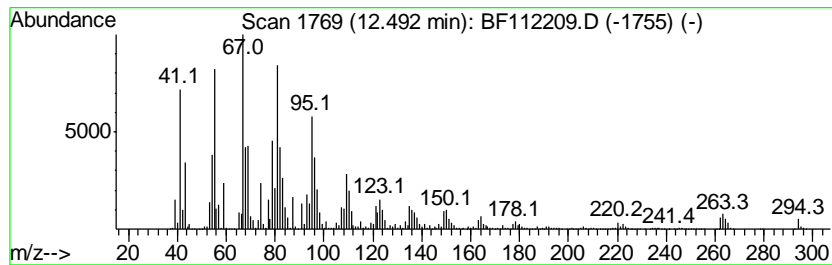
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 13 9,12-Octadecadienoic acid, ... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.49	709.37 ng	45037400	Phenanthrene-d10	11.37

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,12-Octadecadienoic acid, methy...	294	C19H34O2	002462-85-3	99
2		9,12-Octadecadienoic acid (Z,Z)-...	294	C19H34O2	000112-63-0	99
3		9,15-Octadecadienoic acid, methy...	294	C19H34O2	017309-05-6	99
4		Methyl 9-cis,11-trans-octadecadi...	294	C19H34O2	1000336-44-0	99
5		10,13-Octadecadienoic acid, meth...	294	C19H34O2	056554-62-2	99



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012419\  
 Data File : BF112209.D  
 Acq On : 24 Jan 2019 15:24  
 Operator : JU/SJ  
 Sample : K1016-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-RO-1-012319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

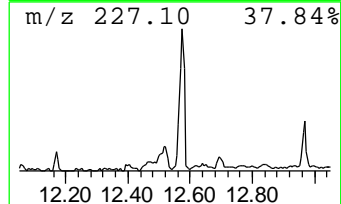
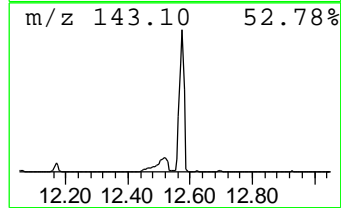
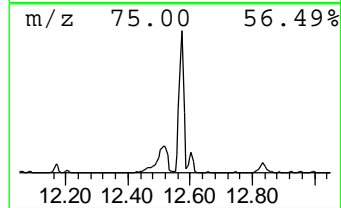
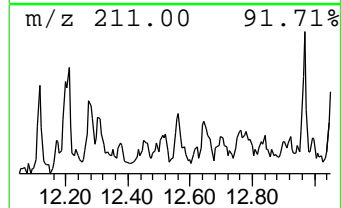
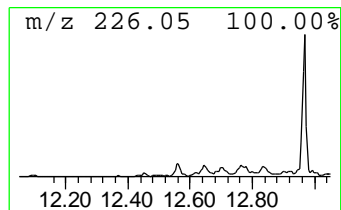
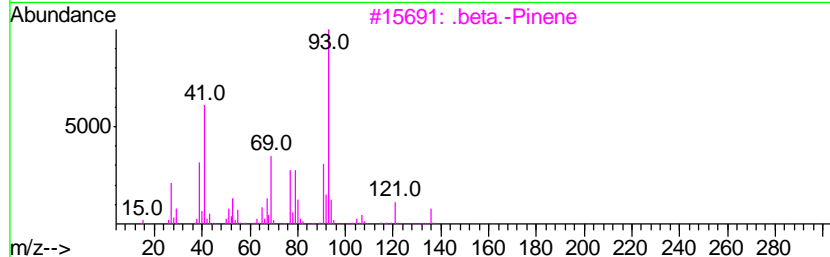
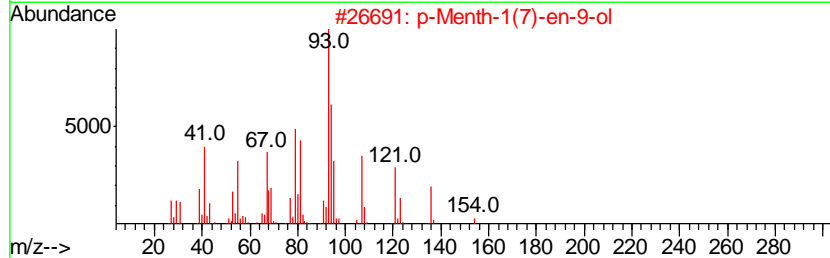
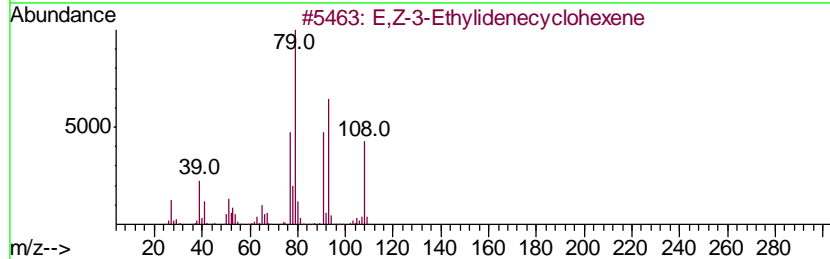
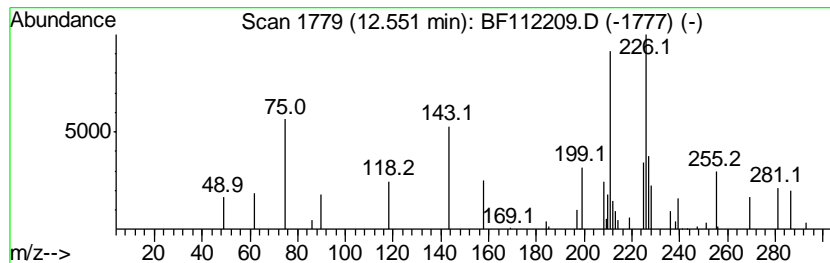
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 14 unknown12.55 Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.55	7.46 ng	473559	Phenanthrene-d10	11.37

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	E,Z-3-Ethylidenecyclohexene	108	C8H12	016631-62-2	43
2		p-Menth-1(7)-en-9-ol	154	C10H18O	029548-16-1	43
3		.beta.-Pinene	136	C10H16	000127-91-3	38
4		Cycloheptene, 5-ethylidene-1-met...	136	C10H16	015402-94-5	35
5		E,Z-4-Ethylidenecyclohexene	108	C8H12	016631-66-6	35





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012419\  
 Data File : BF112209.D  
 Acq On : 24 Jan 2019 15:24  
 Operator : JU/SJ  
 Sample : K1016-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-RO-1-012319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

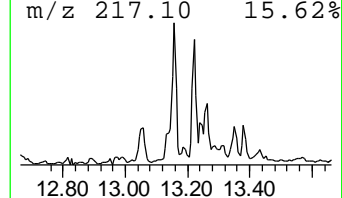
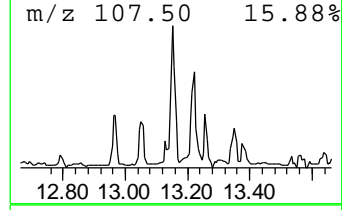
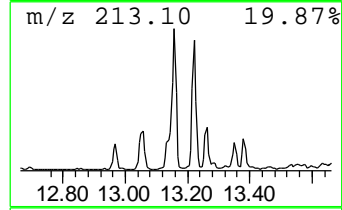
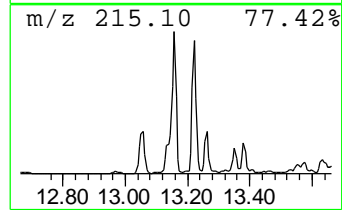
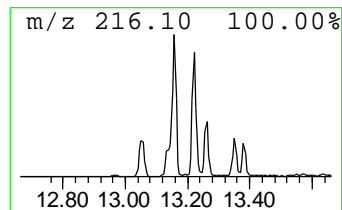
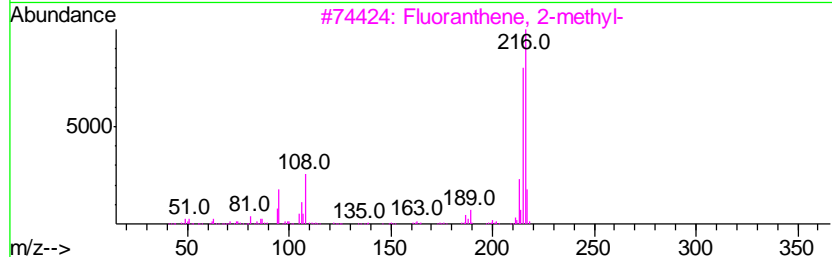
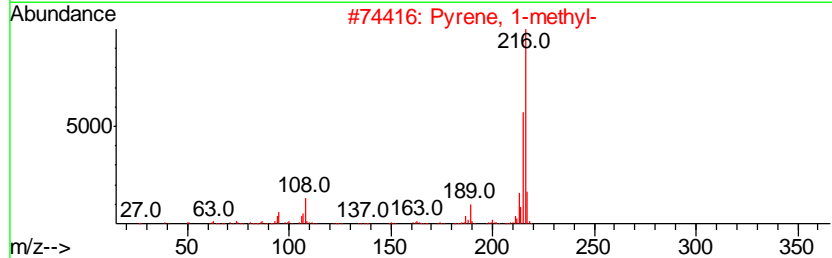
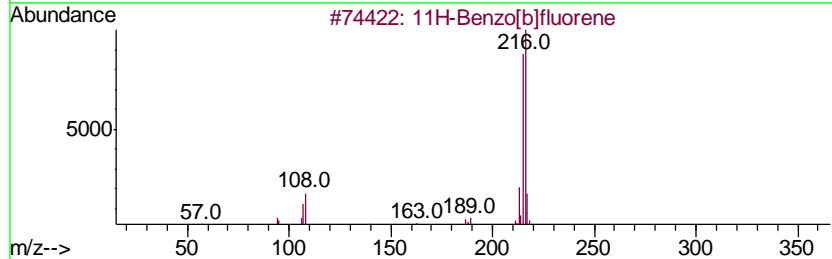
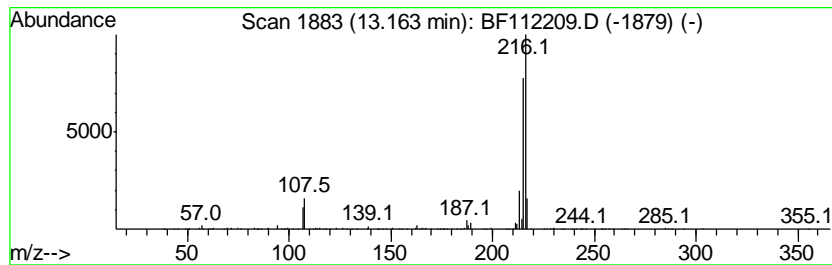
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 15 11H-Benzo[b]fluorene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.16	4.14 ng	1124200	Chrysene-d12	14.03

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
2		Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
3		Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	83
4		11H-Benzo[a]fluorene	216	C17H12	000238-84-6	83
5		7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012419\  
 Data File : BF112209.D  
 Acq On : 24 Jan 2019 15:24  
 Operator : JU/SJ  
 Sample : K1016-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-RO-1-012319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

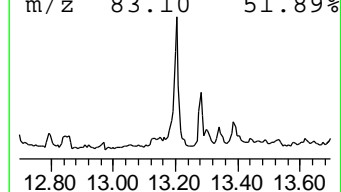
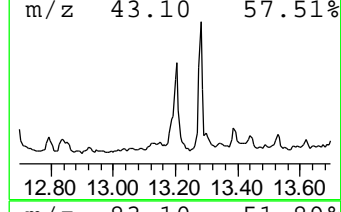
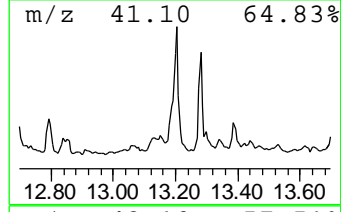
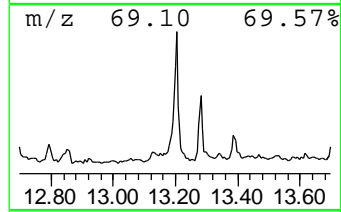
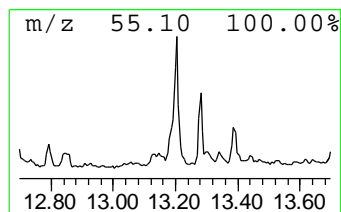
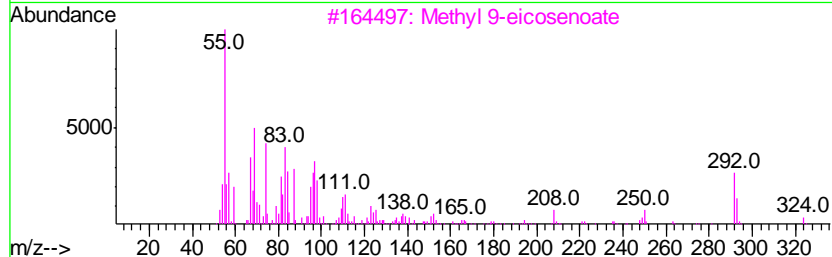
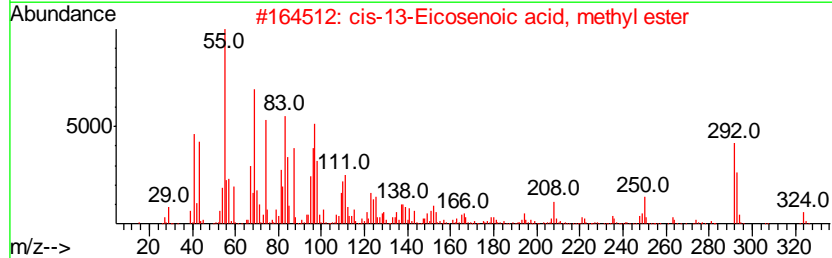
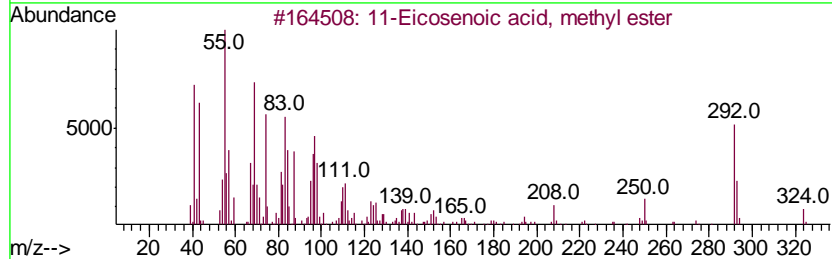
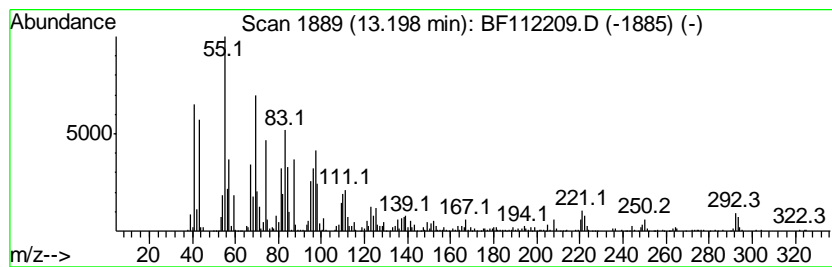
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 16 11-Eicosenoic acid, methyl ... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.20	5.25 ng	1425670	Chrysene-d12	14.03

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	11-Eicosenoic acid, methyl ester	324	C21H40O2	003946-08-5	99
2		cis-13-Eicosenoic acid, methyl e...	324	C21H40O2	1000333-52-1	99
3		Methyl 9-eicosenoate	324	C21H40O2	1000336-50-5	98
4		cis-11-Eicosenoic acid, methyl e...	324	C21H40O2	1000333-63-8	91
5		trans-13-Octadecenoic acid, meth...	296	C19H36O2	1000333-61-3	90



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012419\  
 Data File : BF112209.D  
 Acq On : 24 Jan 2019 15:24  
 Operator : JU/SJ  
 Sample : K1016-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-RO-1-012319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

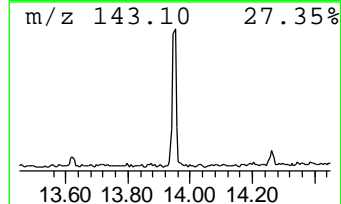
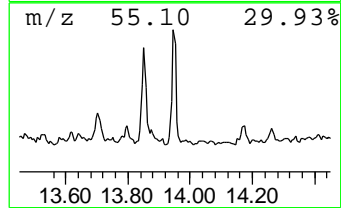
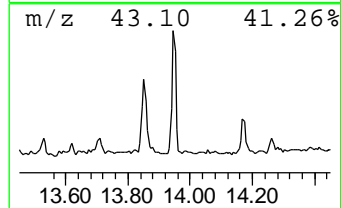
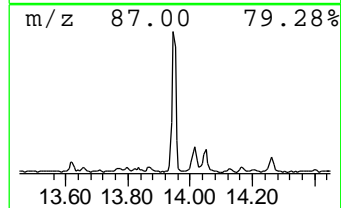
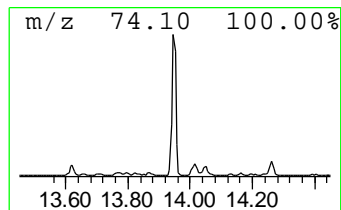
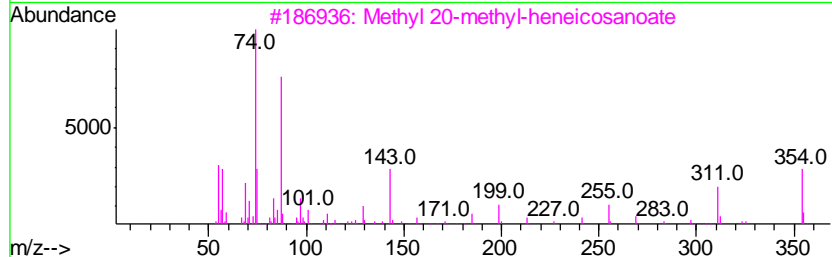
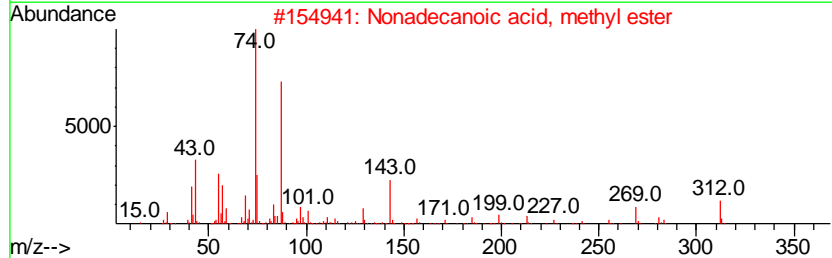
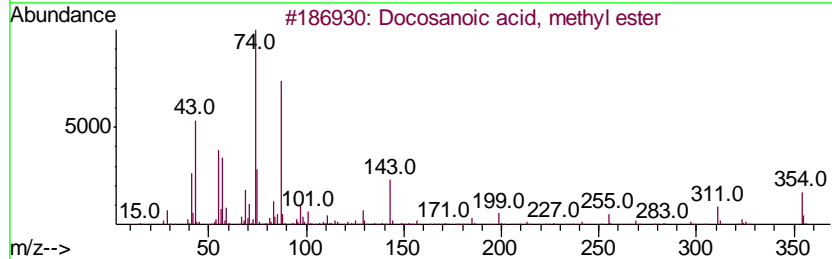
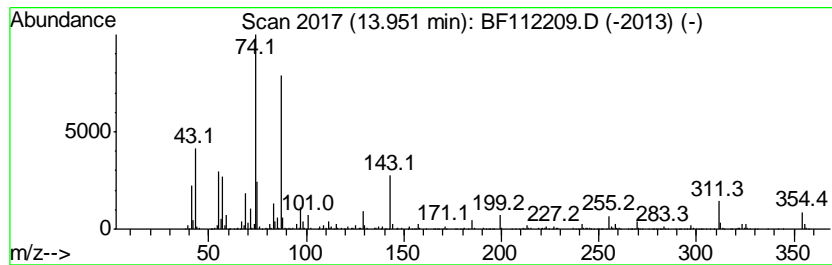
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 17 Docosanoic acid, methyl ester Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.95	3.47 ng	941850	Chrysene-d12	14.03

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Docosanoic acid, methyl ester	354	C23H46O2	000929-77-1	99
2		Nonadecanoic acid, methyl ester	312	C20H40O2	001731-94-8	87
3		Methyl 20-methyl-heneicosanoate	354	C23H46O2	1000336-47-4	86
4		Methyl stearate	298	C19H38O2	000112-61-8	86
5		Heptadecanoic acid, 16-methyl-, ...	298	C19H38O2	005129-61-3	83



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012419\  
 Data File : BF112209.D  
 Acq On : 24 Jan 2019 15:24  
 Operator : JU/SJ  
 Sample : K1016-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-RO-1-012319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

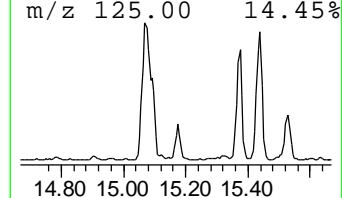
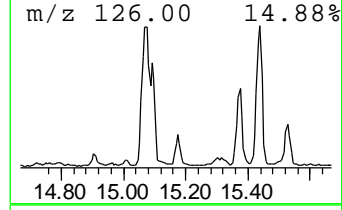
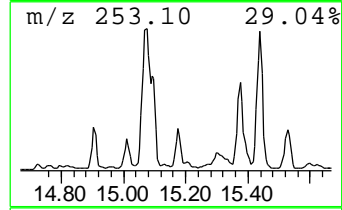
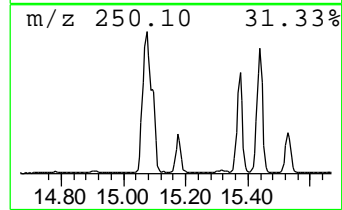
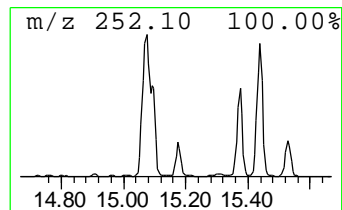
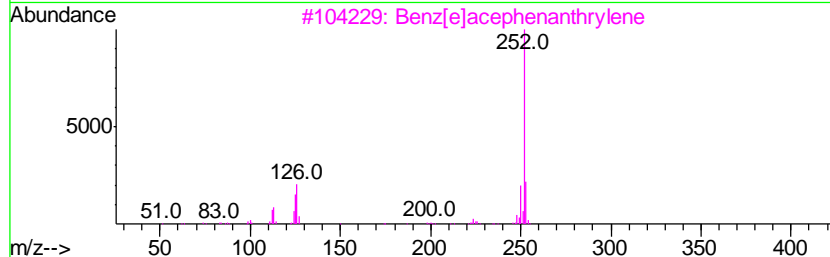
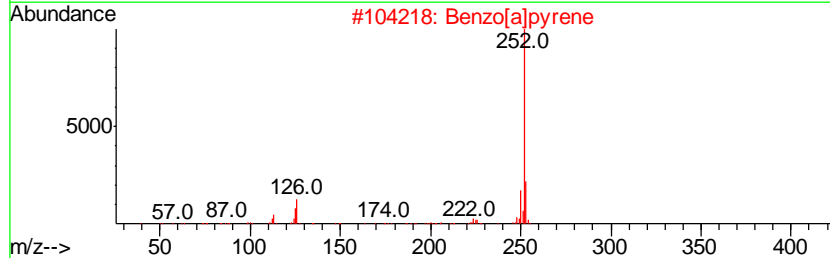
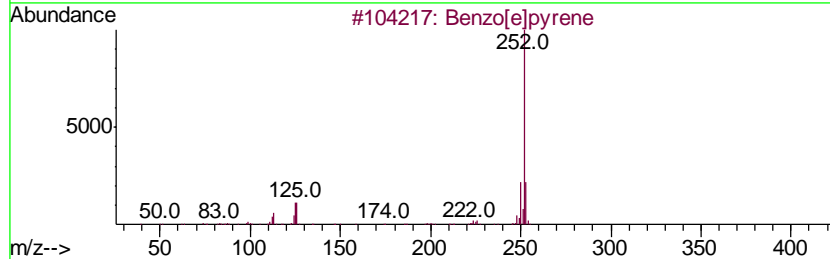
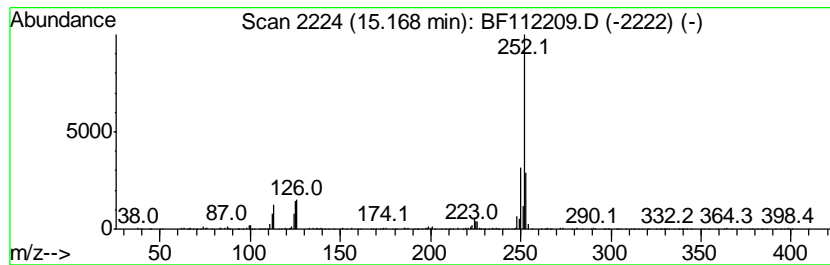
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 18 Benzo[e]pyrene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.17	5.98 ng	537858	Perylene-d12	15.50

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2		Benzo[a]pyrene	252	C20H12	000050-32-8	95
3		Benz[e]acephenanthrylene	252	C20H12	000205-99-2	94
4		Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
5		Perylene	252	C20H12	000198-55-0	81



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF012419\  
 Data File : BF112209.D  
 Acq On : 24 Jan 2019 15:24  
 Operator : JU/SJ  
 Sample : K1016-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-RO-1-012319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

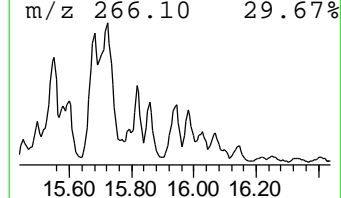
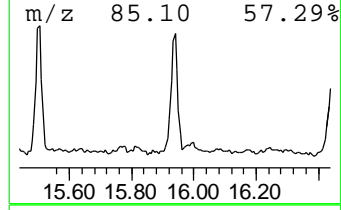
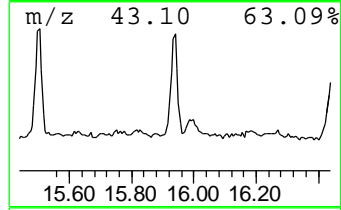
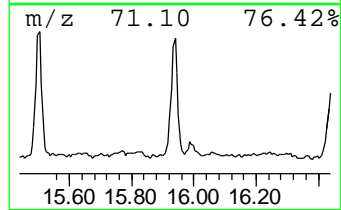
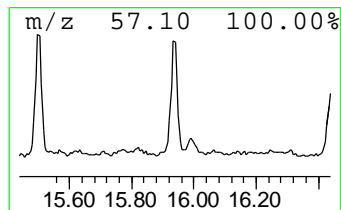
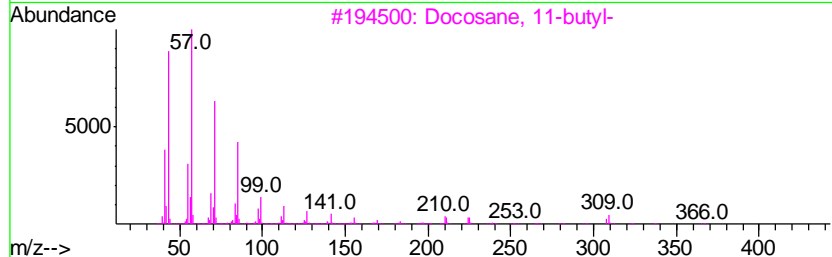
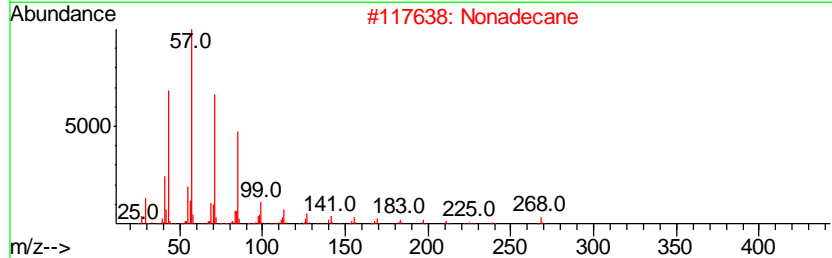
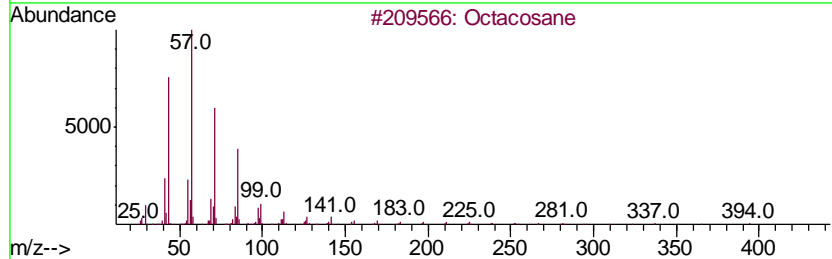
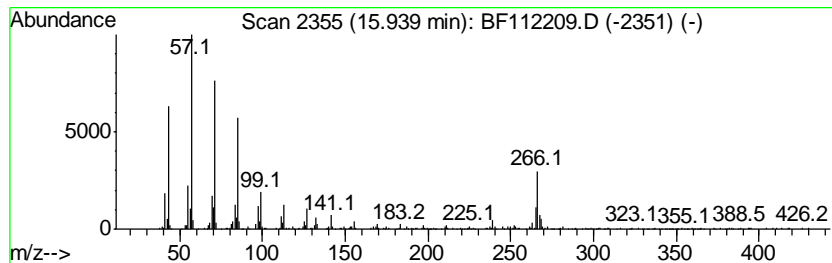
TIC Library : C:\DATABASE\NIST11.L  
 TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
 Peak Number 20 Octacosane Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.94	6.11 ng	549679	Perylene-d12	15.50

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Octacosane	394	C28H58	000630-02-4	93
2		Nonadecane	268	C19H40	000629-92-5	92
3		Docosane, 11-butyl-	366	C26H54	013475-76-8	90
4		2-methyloctacosane	408	C29H60	1000376-72-8	81
5		Eicosane, 7-hexyl-	366	C26H54	055333-99-8	72



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF012419\  
 Data File : BF112209.D  
 Acq On : 24 Jan 2019 15:24  
 Operator : JU/SJ  
 Sample : K1016-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-05-RO-1-012319

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF011619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown6.63	6.63	75.1	ng	3811770	1	6.85	1015260	20.0
Tridecanoic acid,...	10.89	26.0	ng	1651780	4	11.37	1269790	20.0
Naphtho[2,1-b]thi...	11.27	8.1	ng	512574	4	11.37	1269790	20.0
Anthracene, 9-eth...	11.67	7.6	ng	484567	4	11.37	1269790	20.0
9-Hexadecenoic ac...	11.69	30.4	ng	1933380	4	11.37	1269790	20.0
Hexadecanoic acid...	11.78	355.2	ng	22549600	4	11.37	1269790	20.0
Phenanthrene, 2-m...	11.88	10.4	ng	659546	4	11.37	1269790	20.0
Phenanthrene, 1-m...	11.91	27.1	ng	1718500	4	11.37	1269790	20.0
4H-Cyclopenta[def...	11.99	23.6	ng	1497910	4	11.37	1269790	20.0
Methyl 9-heptadec...	12.09	8.7	ng	552781	4	11.37	1269790	20.0
Heptadecanoic aci...	12.17	16.3	ng	1037600	4	11.37	1269790	20.0
9,12-Octadecadien...	12.49	709.4	ng	45037400	4	11.37	1269790	20.0
unknown12.55	12.55	7.5	ng	473559	4	11.37	1269790	20.0
11H-Benzo[b]fluorene	13.16	4.1	ng	1124200	5	14.03	5429200	20.0
11-Eicosenoic aci...	13.20	5.3	ng	1425670	5	14.03	5429200	20.0
Docosanoic acid, ...	13.95	3.5	ng	941850	5	14.03	5429200	20.0
Benzo[e]pyrene	15.17	6.0	ng	537858	6	15.50	1800330	20.0
Octacosane	15.94	6.1	ng	549679	6	15.50	1800330	20.0