

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
 Data File : BF118410.D
 Acq On : 31 Dec 2019 17:30
 Operator : JU
 Sample : K6469-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 174-NC-TOPSOIL-001

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-BF122419.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	5.063	502	506	517	rVB	196559	253554	12.80%	0.693%
2	5.475	572	576	596	rBV	1525513	1482546	74.86%	4.055%
3	6.492	745	749	762	rBV	1629788	1647866	83.20%	4.507%
4	6.628	767	772	775	rBV	1857882	1759634	88.85%	4.813%
5	6.851	807	810	816	rBV	535389	414494	20.93%	1.134%
6	7.010	833	837	840	rBV	1519786	1314677	66.38%	3.596%
7	7.281	875	883	892	rBV	38452	78341	3.96%	0.214%
8	7.422	902	907	916	rBV	1013098	1034140	52.21%	2.828%
9	8.139	1025	1029	1037	rBV	580604	555931	28.07%	1.520%
10	8.498	1084	1090	1097	rBV8	16160	34901	1.76%	0.095%
11	9.216	1208	1212	1215	rBV	2355611	1980549	100.00%	5.417%
12	9.551	1267	1269	1273	rBV2	71529	74140	3.74%	0.203%
13	9.610	1277	1279	1283	rVB	114785	103752	5.24%	0.284%
14	9.651	1283	1286	1289	rBV2	44761	37886	1.91%	0.104%
15	9.898	1325	1328	1331	rBV	804462	738707	37.30%	2.020%
16	9.927	1331	1333	1338	rVV2	88628	108367	5.47%	0.296%
17	9.969	1338	1340	1343	rVB3	58246	51319	2.59%	0.140%
18	10.016	1343	1348	1352	rBV3	115832	128075	6.47%	0.350%
19	10.104	1359	1363	1367	rBV2	60075	75183	3.80%	0.206%
20	10.145	1367	1370	1373	rVV2	42994	45327	2.29%	0.124%
21	10.192	1375	1378	1380	rVB2	46444	39227	1.98%	0.107%
22	10.451	1419	1422	1427	rBV	73474	79821	4.03%	0.218%
23	10.498	1427	1430	1431	rBV2	40893	34217	1.73%	0.094%
24	10.621	1445	1451	1455	rVB5	41896	74400	3.76%	0.203%
25	10.669	1455	1459	1460	rBV3	65174	68140	3.44%	0.186%
26	10.698	1460	1464	1467	rBV	1759372	1512043	76.34%	4.135%
27	10.810	1478	1483	1486	rBV4	76763	90774	4.58%	0.248%
28	10.863	1490	1492	1494	rBV2	45602	47229	2.38%	0.129%
29	11.004	1512	1516	1518	rBV2	32261	37586	1.90%	0.103%
30	11.057	1522	1525	1528	rBV3	44150	54068	2.73%	0.148%
31	11.110	1531	1534	1539	rBV4	73044	89196	4.50%	0.244%
32	11.204	1547	1550	1555	rVB	39448	33271	1.68%	0.091%
33	11.245	1555	1557	1560	rVV2	36175	36945	1.87%	0.101%
34	11.292	1563	1565	1570	rVB	47172	44197	2.23%	0.121%

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF123119\
 Data File : BF118410.D
 Acq On : 31 Dec 2019 17:30
 Operator : JU
 Sample : K6469-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 174-NC-TOPSOIL-001

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-BF122419.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.398	1576	1583	1585	rBV	799951	915539	46.23%	2.504%
36	11.421	1585	1587	1592	rVV	768325	704759	35.58%	1.928%
37	11.469	1592	1595	1598	rVV	168255	160040	8.08%	0.438%
38	11.527	1603	1605	1608	rVB	102699	82096	4.15%	0.225%
39	11.633	1618	1623	1628	rVB4	35762	78112	3.94%	0.214%
40	11.739	1637	1641	1643	rVV2	37703	50661	2.56%	0.139%
41	11.774	1644	1647	1650	rVB	82792	86107	4.35%	0.236%
42	11.857	1657	1661	1662	rBV4	27634	34169	1.73%	0.093%
43	11.874	1662	1664	1666	rVV	104116	99326	5.02%	0.272%
44	11.898	1666	1668	1669	rVV	168074	127539	6.44%	0.349%
45	11.921	1669	1672	1679	rVV2	756306	861681	43.51%	2.357%
46	11.974	1679	1681	1684	rVV	76230	71955	3.63%	0.197%
47	12.010	1684	1687	1689	rVV2	195132	194065	9.80%	0.531%
48	12.033	1689	1691	1694	rVB	115891	94650	4.78%	0.259%
49	12.086	1697	1700	1703	rBV	168130	153013	7.73%	0.418%
50	12.168	1711	1714	1716	rBV2	27921	34975	1.77%	0.096%
51	12.192	1716	1718	1723	rVV	70708	74082	3.74%	0.203%
52	12.274	1730	1732	1736	rVB4	48068	40752	2.06%	0.111%
53	12.339	1737	1743	1746	rBV4	65304	118495	5.98%	0.324%
54	12.374	1746	1749	1751	rVB2	42215	44069	2.23%	0.121%
55	12.398	1751	1753	1757	rVB4	47925	47597	2.40%	0.130%
56	12.463	1757	1764	1766	rBV4	235119	384461	19.41%	1.052%
57	12.486	1766	1768	1771	rVV2	363575	294059	14.85%	0.804%
58	12.533	1774	1776	1781	rBV2	266919	297006	15.00%	0.812%
59	12.574	1781	1783	1786	rVB	59775	49159	2.48%	0.134%
60	12.615	1786	1790	1799	rBV	1024617	1183582	59.76%	3.237%
61	12.704	1803	1805	1809	rBV2	237333	234717	11.85%	0.642%
62	12.845	1824	1829	1832	rBV	703027	724063	36.56%	1.980%
63	12.898	1835	1838	1842	rVB3	67420	84388	4.26%	0.231%
64	12.986	1848	1853	1856	rBV	2330647	1961875	99.06%	5.366%
65	13.151	1878	1881	1882	rBV2	67563	64265	3.24%	0.176%
66	13.174	1883	1885	1888	rVV	104365	116940	5.90%	0.320%
67	13.204	1888	1890	1892	rVV2	55302	52289	2.64%	0.143%
68	13.245	1895	1897	1900	rBV	64072	64523	3.26%	0.176%
69	13.280	1901	1903	1905	rVV2	54013	45422	2.29%	0.124%
70	13.380	1916	1920	1922	rBV3	97148	118801	6.00%	0.325%
71	13.415	1922	1926	1930	rVV3	163600	271104	13.69%	0.741%

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF123119\
 Data File : BF118410.D
 Acq On : 31 Dec 2019 17:30
 Operator : JU
 Sample : K6469-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 174-NC-TOPSOIL-001

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-BF122419.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.486	1935	1938	1945	rVB	125549	131711	6.65%	0.360%
73	13.551	1947	1949	1951	rVB	48644	37436	1.89%	0.102%
74	13.692	1971	1973	1977	rBV	60547	49709	2.51%	0.136%
75	13.751	1980	1983	1987	rBV3	65920	65566	3.31%	0.179%
76	13.804	1989	1992	1993	rBV	65755	64322	3.25%	0.176%
77	13.839	1996	1998	2002	rVB2	63342	56602	2.86%	0.155%
78	13.880	2002	2005	2008	rBV2	414768	385081	19.44%	1.053%
79	13.968	2017	2020	2025	rBV	103436	132065	6.67%	0.361%
80	14.051	2030	2034	2037	rVV2	713922	895301	45.20%	2.449%
81	14.080	2037	2039	2041	rVB	251873	198639	10.03%	0.543%
82	14.198	2056	2059	2062	rBV	161642	167202	8.44%	0.457%
83	14.504	2108	2111	2120	rVB2	471412	620701	31.34%	1.698%
84	14.768	2153	2156	2158	rBV2	89607	93092	4.70%	0.255%
85	14.815	2161	2164	2167	rVB	237068	242569	12.25%	0.663%
86	14.892	2173	2177	2180	rVB	379125	407523	20.58%	1.115%
87	15.045	2200	2203	2208	rBV7	73705	135097	6.82%	0.369%
88	15.115	2210	2215	2217	rVV	207755	306100	15.46%	0.837%
89	15.156	2218	2222	2226	rVB	1134585	1267551	64.00%	3.467%
90	15.427	2264	2268	2273	rVB2	146301	202517	10.23%	0.554%
91	15.486	2274	2278	2283	rVB	204707	251933	12.72%	0.689%
92	15.551	2283	2289	2293	rBV2	597450	875608	44.21%	2.395%
93	15.880	2343	2345	2349	rVB3	88088	109455	5.53%	0.299%
94	15.992	2358	2364	2369	rBV	784109	1195623	60.37%	3.270%
95	16.051	2370	2374	2383	rVB3	158829	403340	20.37%	1.103%
96	16.268	2408	2411	2422	rVB	240080	440771	22.25%	1.206%
97	17.639	2636	2644	2645	rBV	694278	1158789	58.51%	3.169%
98	18.109	2716	2724	2734	rBV2	316771	1092602	55.17%	2.988%
99	18.456	2776	2783	2788	rBV5	332564	946959	47.81%	2.590%
100	18.680	2816	2821	2832	rVB7	165001	447902	22.62%	1.225%

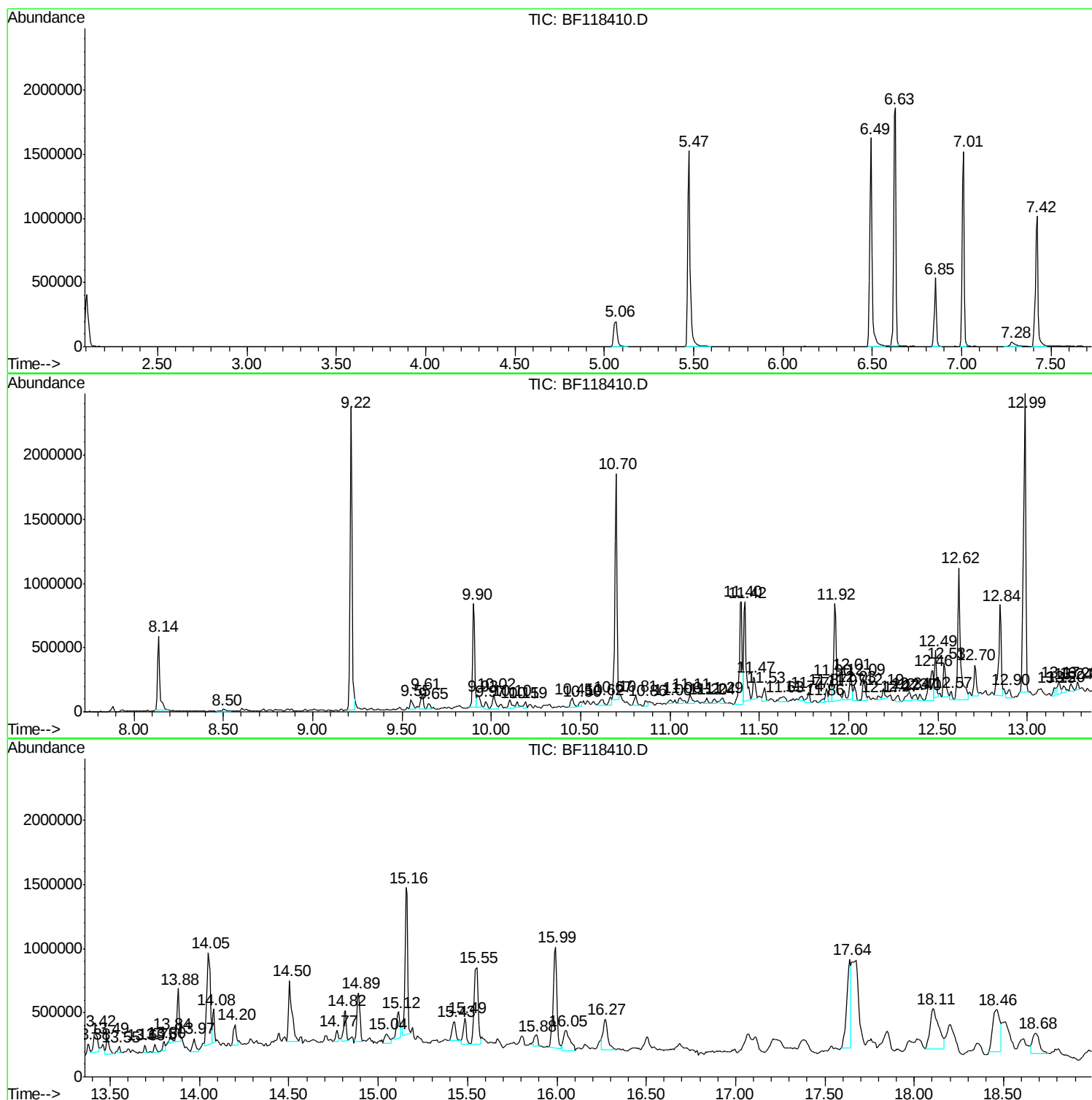
Sum of corrected areas: 36562605

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118410.D
Acq On : 31 Dec 2019 17:30
Operator : JU
Sample : K6469-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.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\BF123119\
Data File : BF118410.D
Acq On : 31 Dec 2019 17:30
Operator : JU
Sample : K6469-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

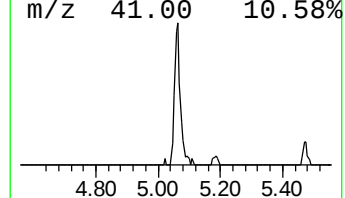
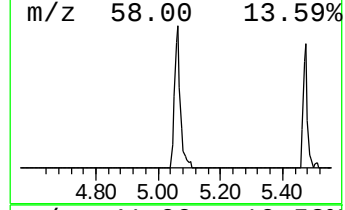
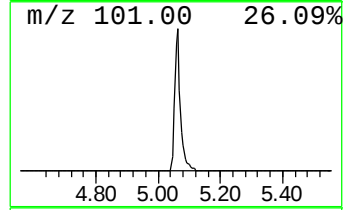
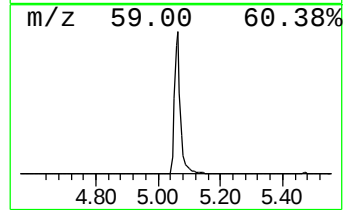
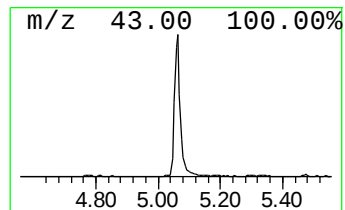
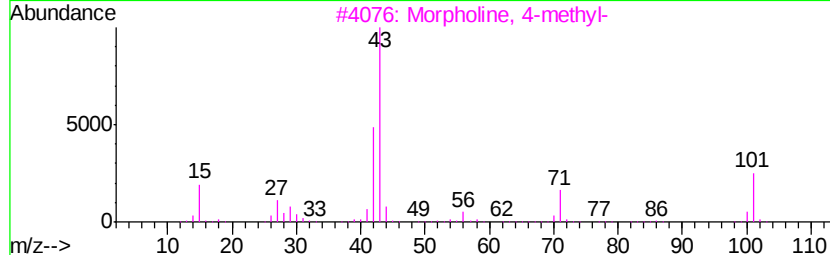
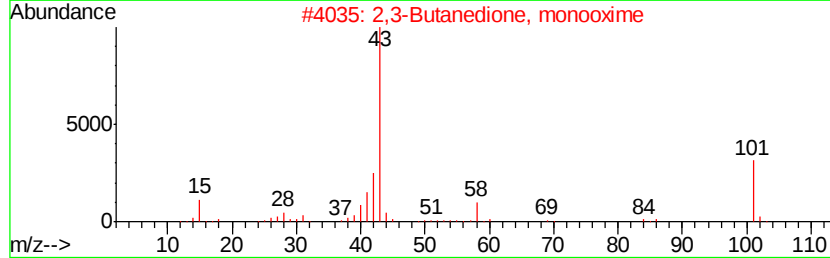
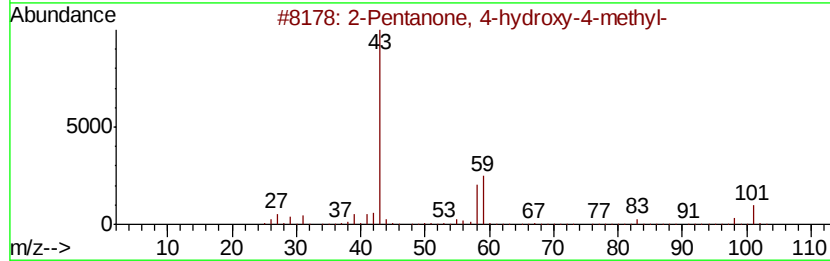
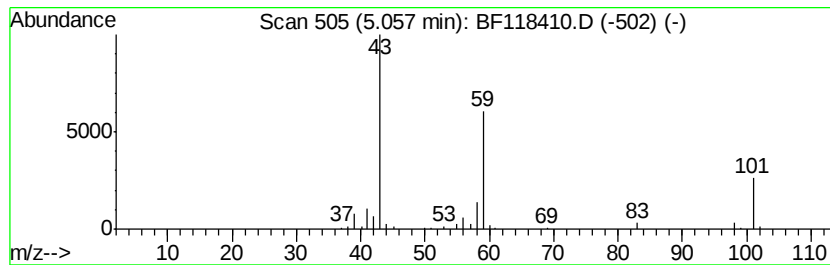
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.06	12.23 ng	253554	1,4-Dichlorobenzene-d4	6.85

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2		2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	25
3		Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
4		Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9
5		5-Hexen-2-one	98	C6H10O	000109-49-9	9



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118410.D
Acq On : 31 Dec 2019 17:30
Operator : JU
Sample : K6469-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

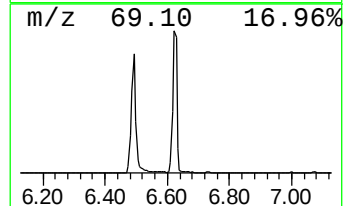
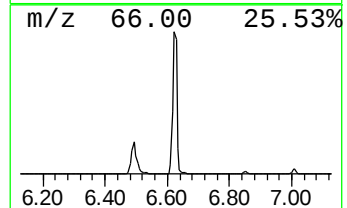
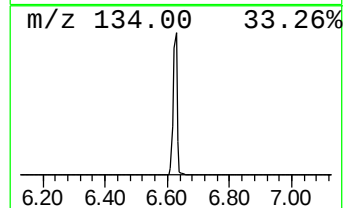
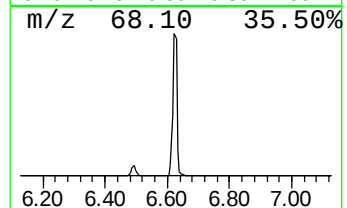
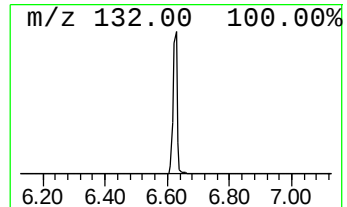
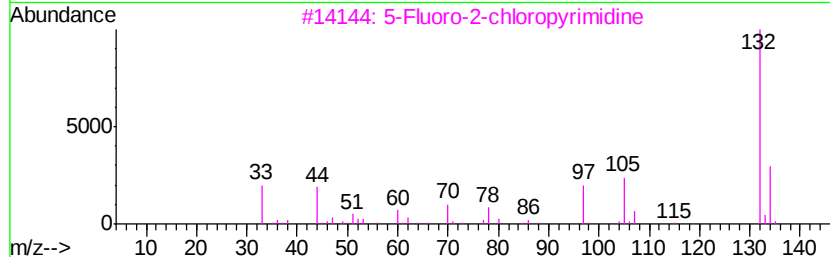
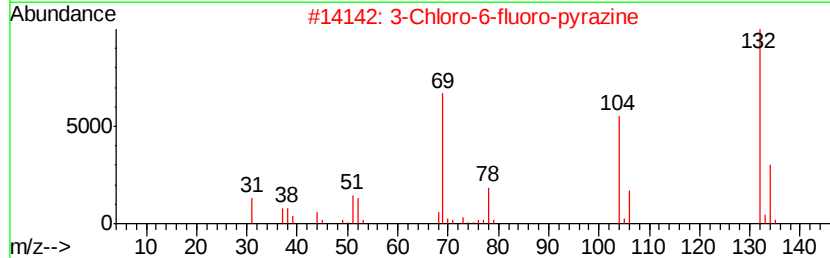
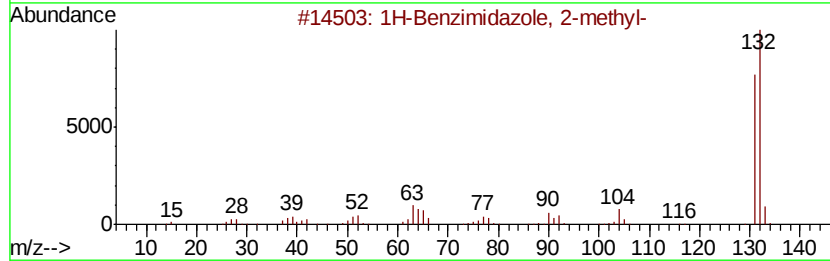
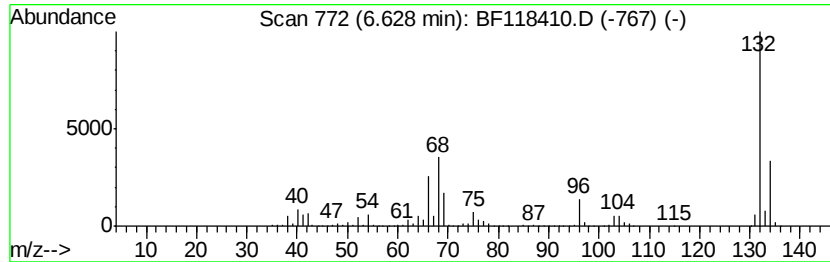
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 unknown6.63 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.63	84.91 ng	1759630	1,4-Dichlorobenzene-d4	6.85

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	27
2		3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	25
3		5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	25
4		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
5		Xenon	132	Xe	007440-63-3	9



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118410.D
Acq On : 31 Dec 2019 17:30
Operator : JU
Sample : K6469-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

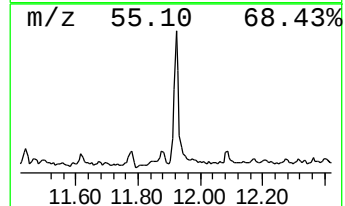
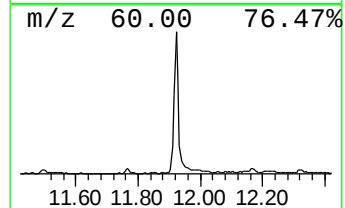
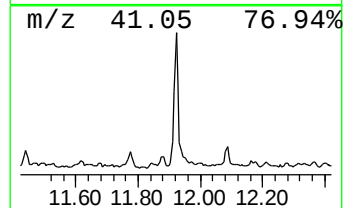
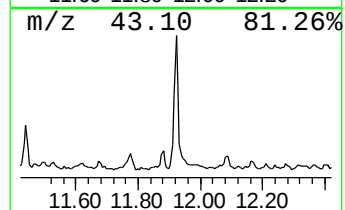
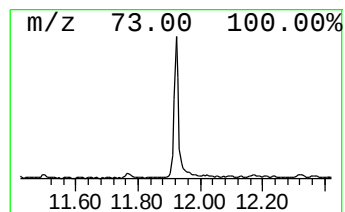
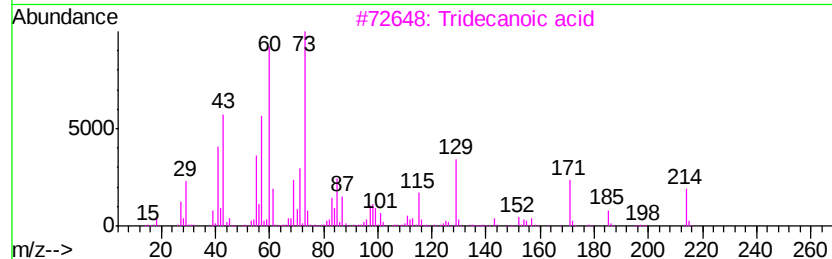
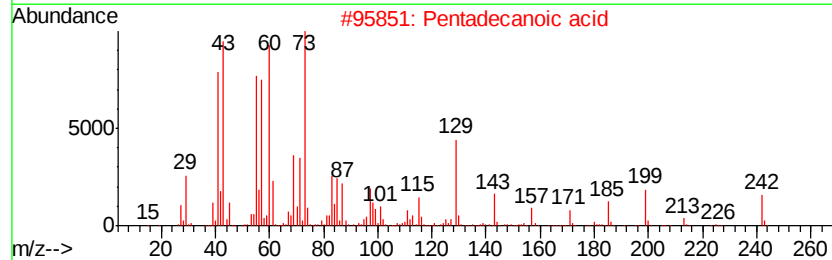
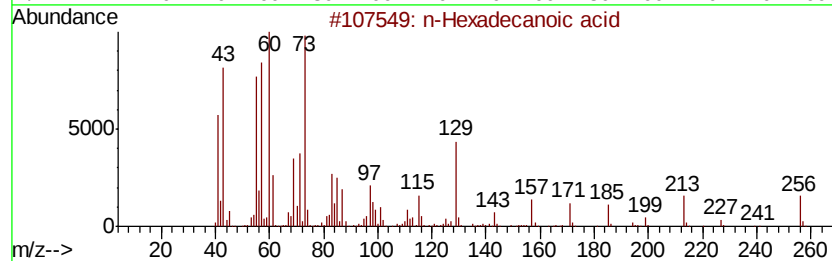
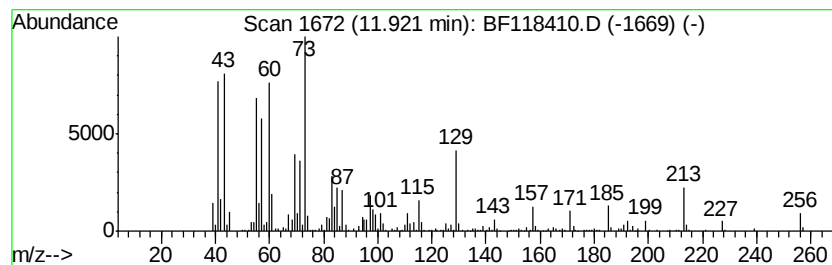
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 n-Hexadecanoic acid Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	18.82 ng	861681	Phenanthrene-d10	11.40

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2		Pentadecanoic acid	242	C15H30O2	001002-84-2	81
3		Tridecanoic acid	214	C13H26O2	000638-53-9	74
4		Dodecanoic acid	200	C12H24O2	000143-07-7	72
5		n-Decanoic acid	172	C10H20O2	000334-48-5	70



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
 Data File : BF118410.D
 Acq On : 31 Dec 2019 17:30
 Operator : JU
 Sample : K6469-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

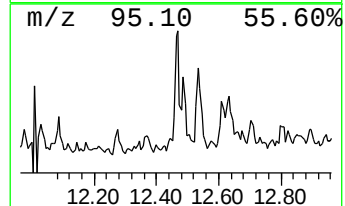
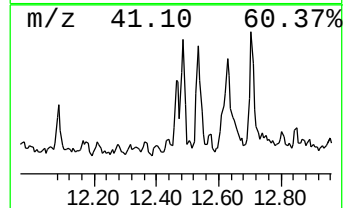
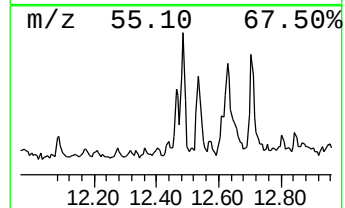
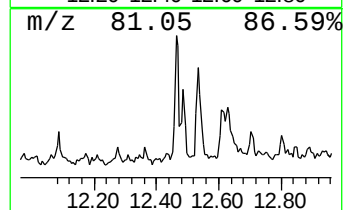
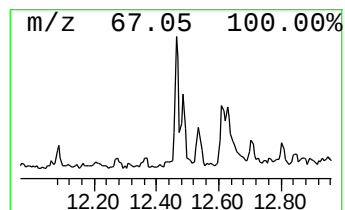
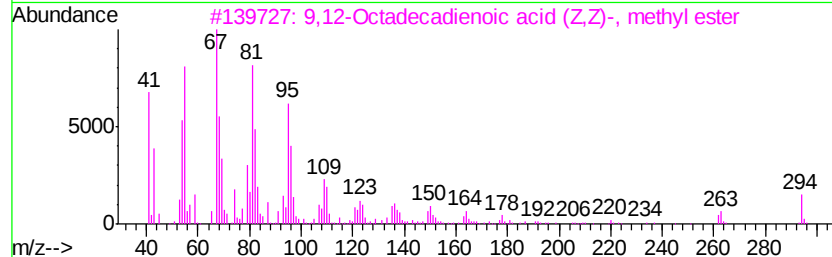
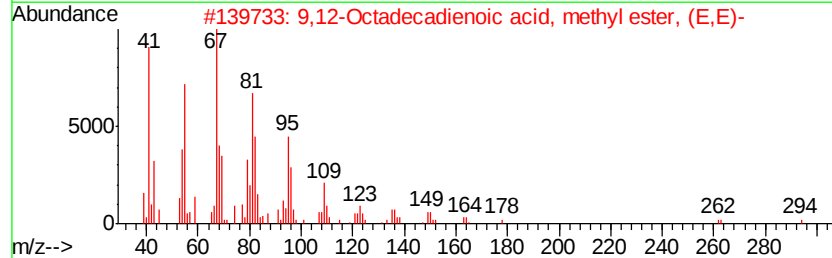
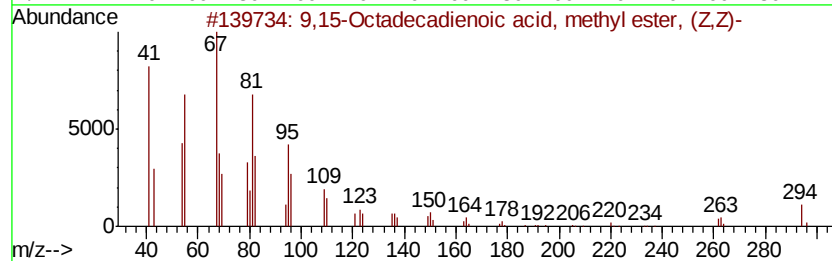
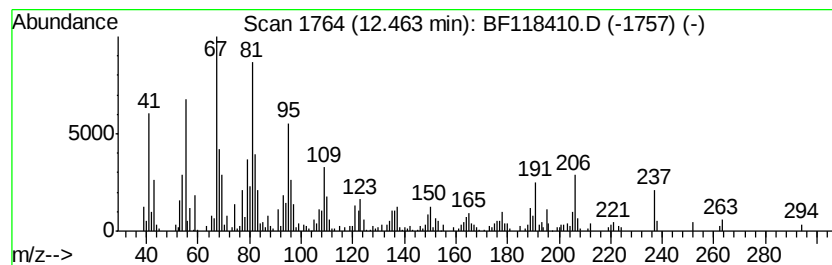
Instrument :
 BNA_F
 ClientSampleId :
 174-NC-TOPSOIL-001

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

 Peak Number 5 9,15-Octadecadienoic acid, ... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD		R.T.
12.46	8.40 ng	384461	Phenanthrene-d10		11.40
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,15-Octadecadienoic acid, methy...	294	C19H34O2	017309-05-6	96
2	9,12-Octadecadienoic acid, methy...	294	C19H34O2	002566-97-4	89
3	9,12-Octadecadienoic acid (Z,Z)-...	294	C19H34O2	000112-63-0	76
4	8-Hexadecyne	222	C16H30	019781-86-3	74
5	E,E-9,11-Hexadecadien-1-ol	238	C16H30O	1000130-90-2	64



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118410.D
Acq On : 31 Dec 2019 17:30
Operator : JU
Sample : K6469-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

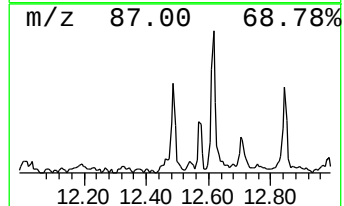
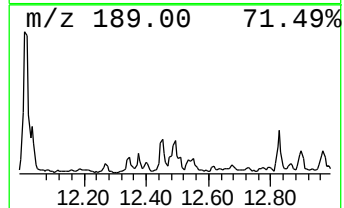
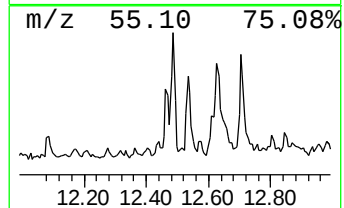
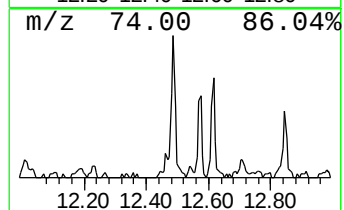
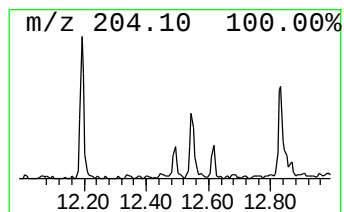
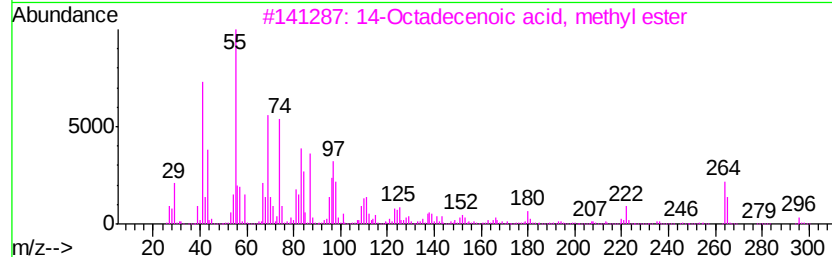
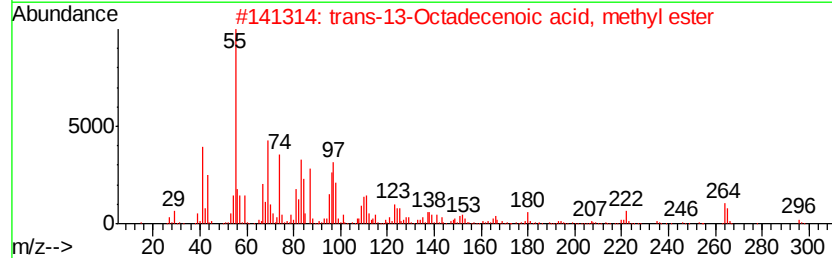
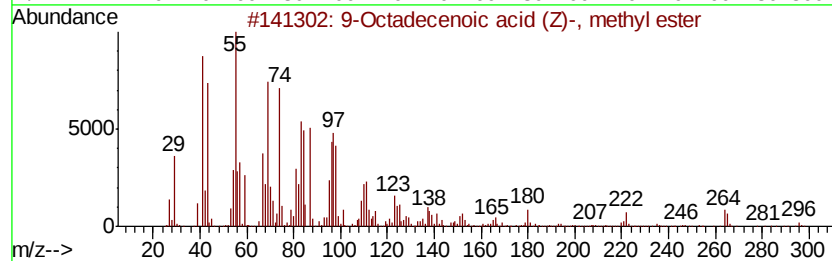
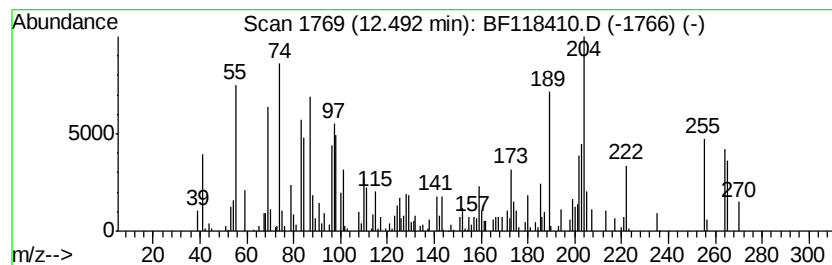
Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.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-Octadecenoic acid (Z)-, m... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.		
12.49	6.42 ng	294059	Phenanthrene-d10	11.40		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		9-Octadecenoic acid (Z)-, methyl...	296	C19H36O2	000112-62-9	90
2		trans-13-Octadecenoic acid, meth...	296	C19H36O2	1000333-61-3	64
3		14-Octadecenoic acid, methyl ester	296	C19H36O2	056554-48-4	60
4		15-Octadecenoic acid, methyl ester	296	C19H36O2	004764-72-1	53
5		16-Octadecenoic acid, methyl ester	296	C19H36O2	056554-49-5	53



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118410.D
Acq On : 31 Dec 2019 17:30
Operator : JU
Sample : K6469-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

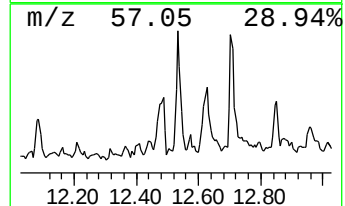
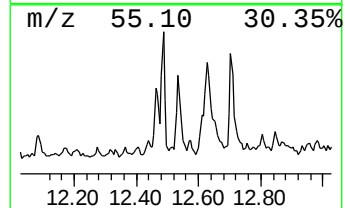
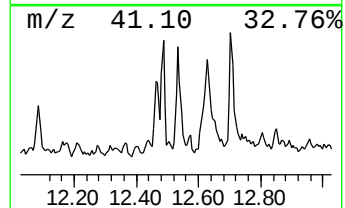
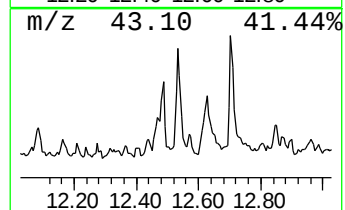
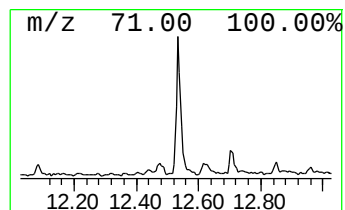
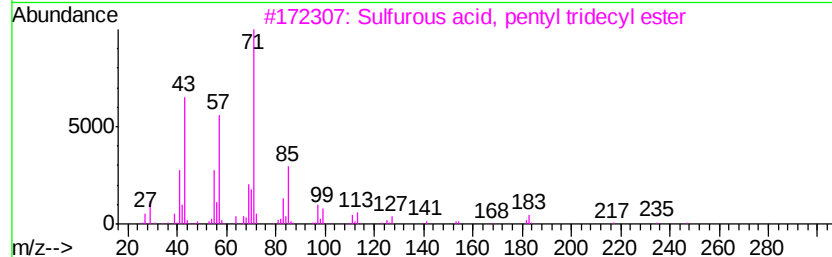
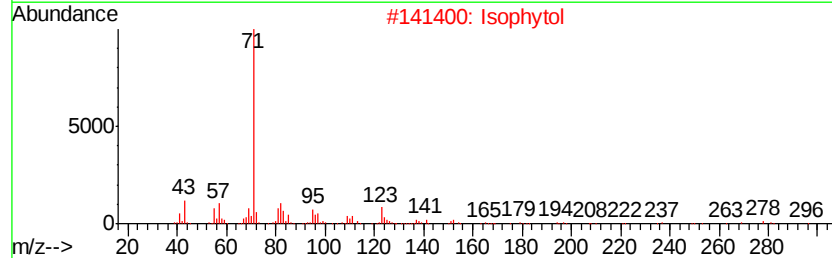
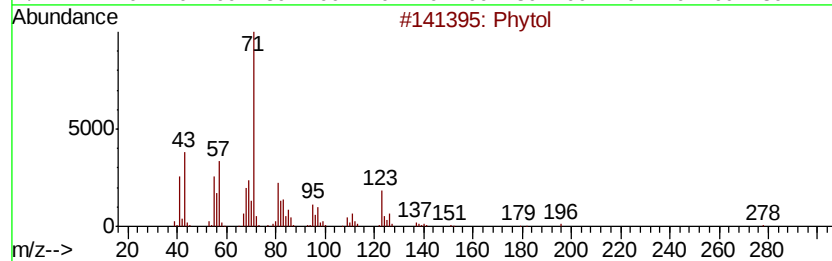
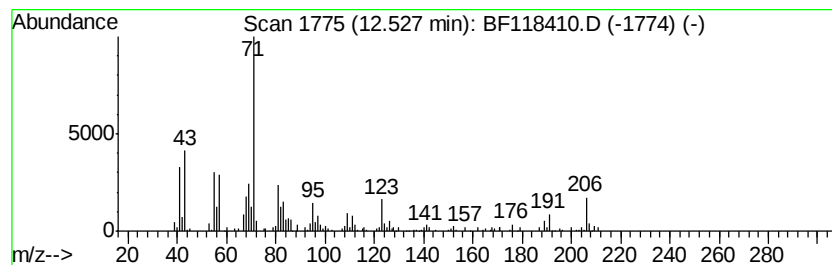
Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Phytol Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD		R.T.	
12.53	6.49 ng	297006	Phenanthrene-d10		11.40	
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phytol		296	C20H40O	000150-86-7	76
2	Isophytol		296	C20H40O	000505-32-8	53
3	Sulfurous acid, pentyl tridecyl ...		334	C18H38O3S	1000309-14-6	47
4	Cyclohexanol, 3,5-dimethyl-		128	C8H16O	005441-52-1	47
5	Butyric acid, 3-tetradecyl ester		284	C18H36O2	1000280-57-1	47



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118410.D
Acq On : 31 Dec 2019 17:30
Operator : JU
Sample : K6469-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

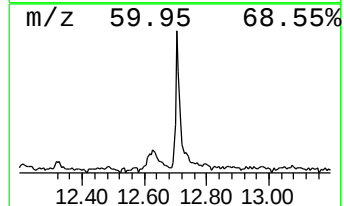
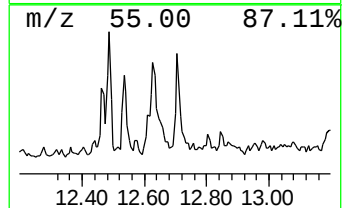
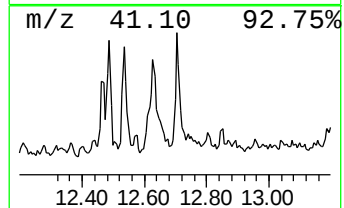
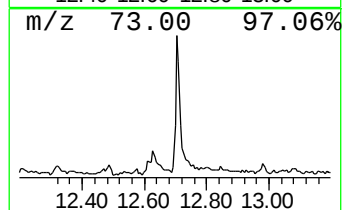
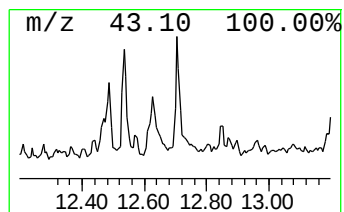
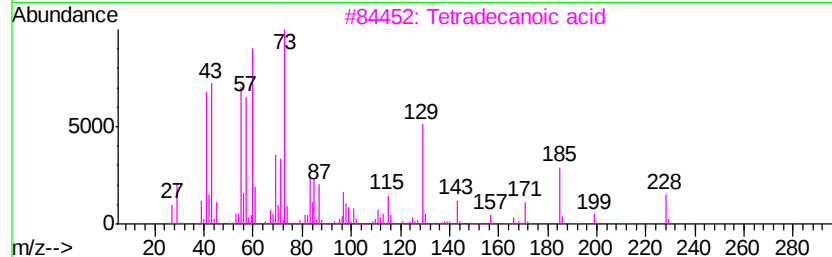
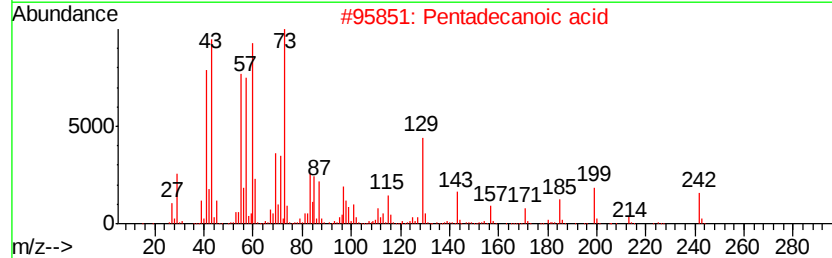
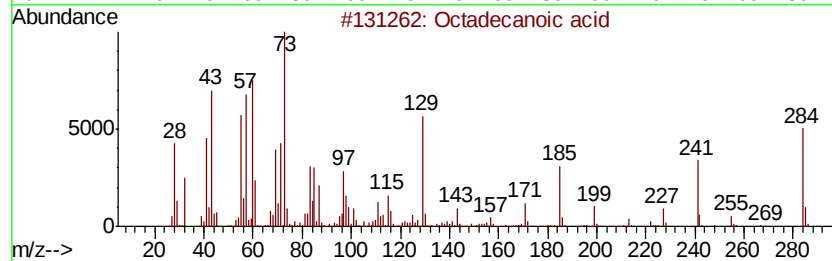
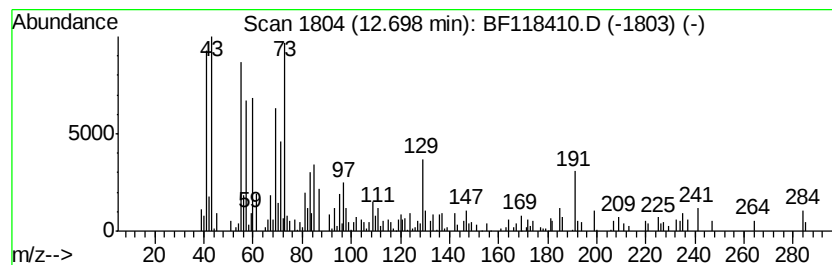
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Octadecanoic acid Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.70	5.13 ng	234717	Phenanthrene-d10	11.40

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Octadecanoic acid	284	C18H36O2	000057-11-4	98
2		Pentadecanoic acid	242	C15H30O2	001002-84-2	89
3		Tetradecanoic acid	228	C14H28O2	000544-63-8	81
4		n-Decanoic acid	172	C10H20O2	000334-48-5	62
5		n-Hexadecanoic acid	256	C16H32O2	000057-10-3	58



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118410.D
Acq On : 31 Dec 2019 17:30
Operator : JU
Sample : K6469-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

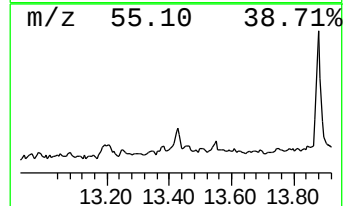
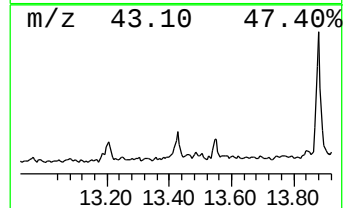
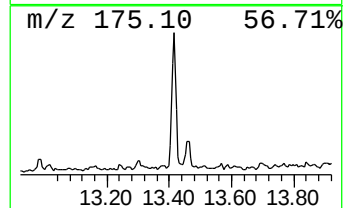
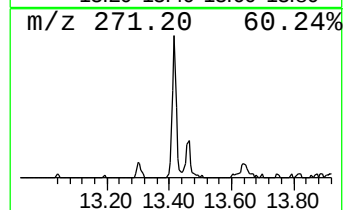
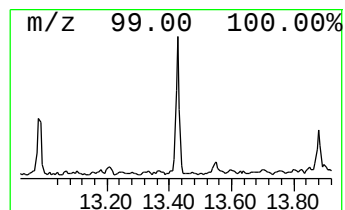
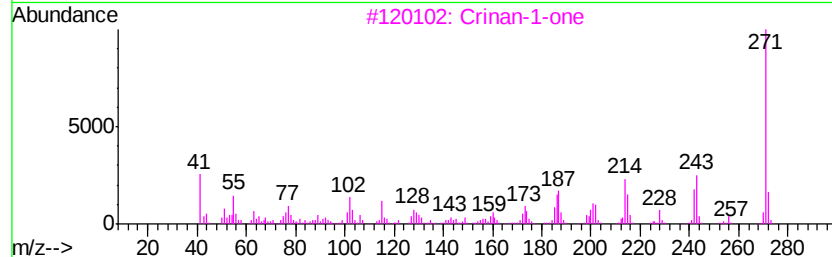
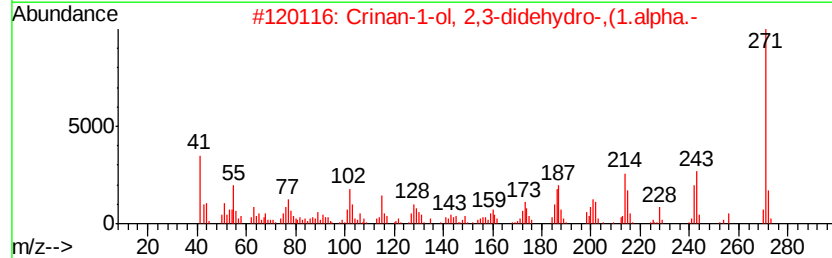
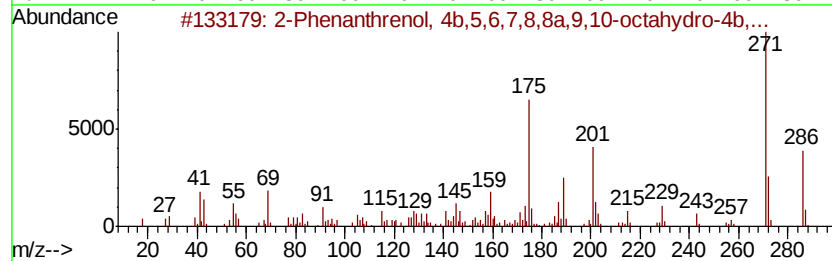
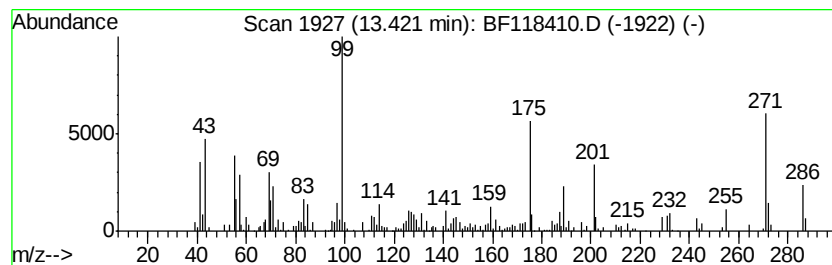
Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 2-Phenanthrenol, 4b,5,6,7,8... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.		
13.42	6.06 ng	271104	Chrysene-d12	14.05		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenanthrenol, 4b,5,6,7,8,8a,9...	286	C20H30O	000511-15-9	91	
2	Crinan-1-ol, 2,3-didehydro-, (1.a...	271	C16H17NO3	1000111-31-3	42	
3	Crinan-1-one	271	C16H17NO3	098301-98-5	38	
4	2,2-Bis(4'-methoxyphenyl)-2-etho...	286	C18H22O3	1000283-53-7	30	
5	Ethanone, 2-(2,3-dihydro-3-ethyl...	271	C15H13NO2S	321687-27-8	25	



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118410.D
Acq On : 31 Dec 2019 17:30
Operator : JU
Sample : K6469-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

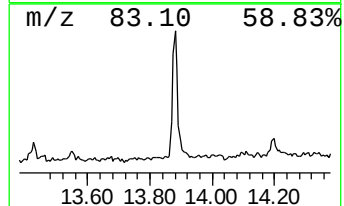
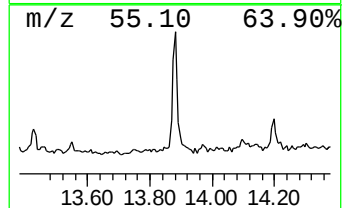
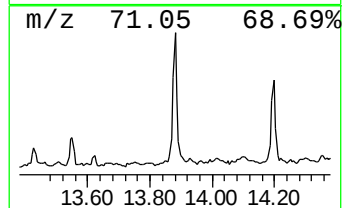
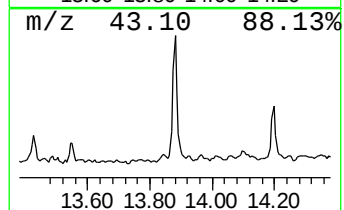
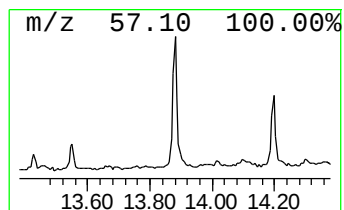
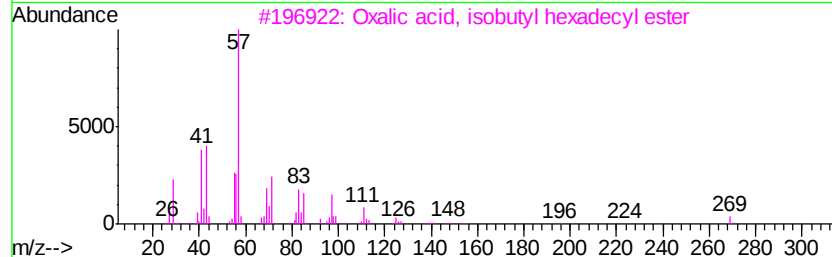
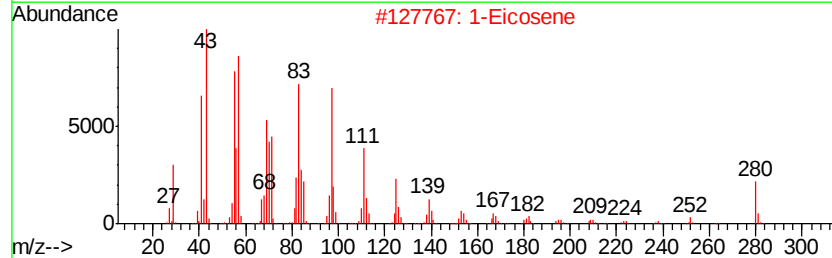
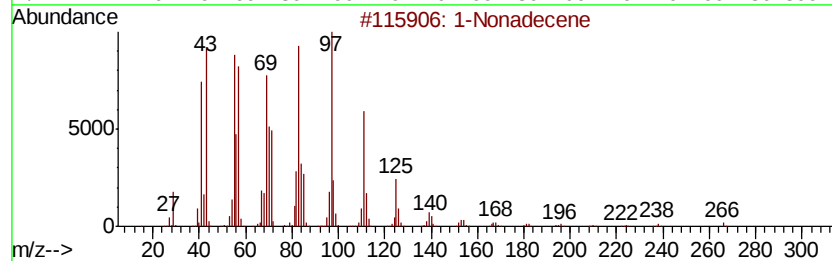
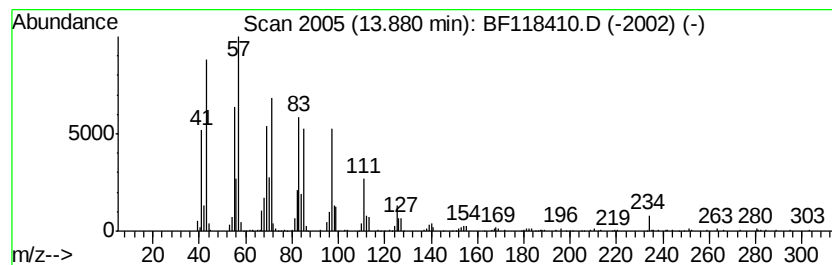
Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 1-Nonadecene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.88	8.60 ng	385081	Chrysene-d12	14.05	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Nonadecene	266	C19H38	018435-45-5	96
2	1-Eicosene	280	C20H40	003452-07-1	93
3	Oxalic acid, isobutyl hexadecyl ...	370	C22H42O4	1000309-38-1	91
4	3-Eicosene, (E)-	280	C20H40	074685-33-9	89
5	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	87



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118410.D
Acq On : 31 Dec 2019 17:30
Operator : JU
Sample : K6469-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

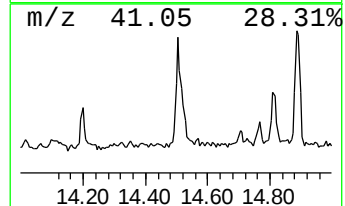
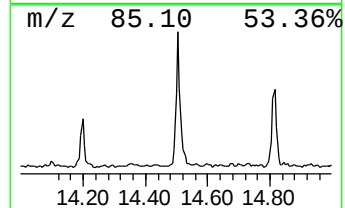
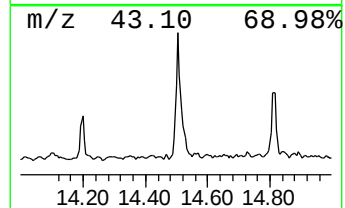
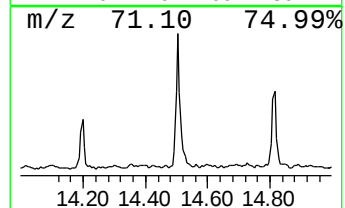
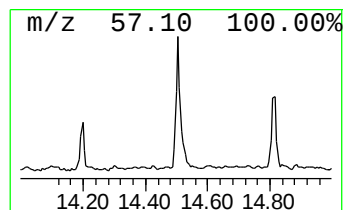
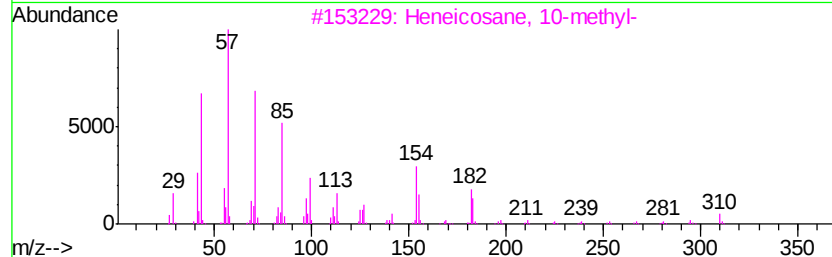
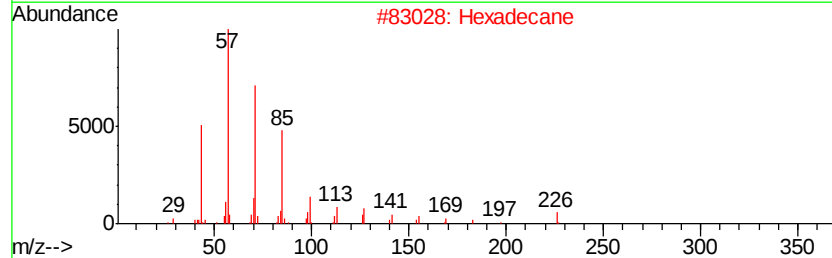
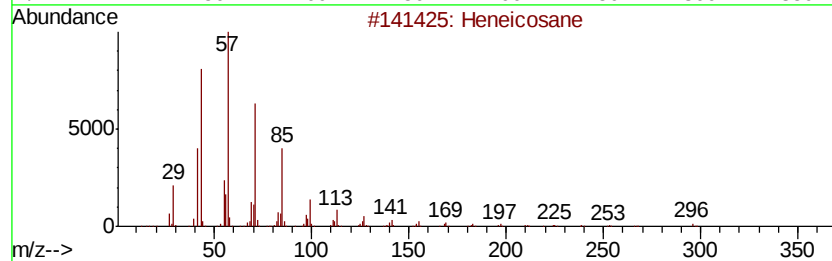
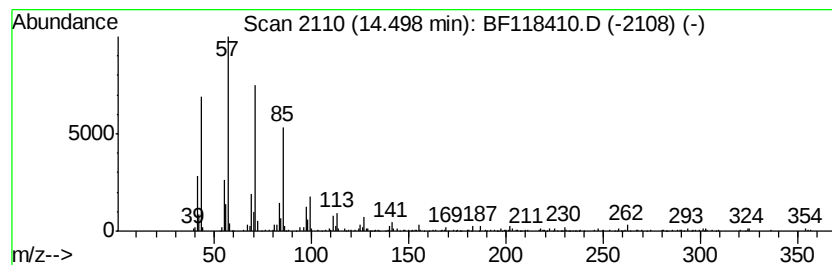
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Heneicosane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.50	13.87 ng	620701	Chrysene-d12	14.05

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane		296	C21H44	000629-94-7	96
2	Hexadecane		226	C16H34	000544-76-3	93
3	Heneicosane, 10-methyl-		310	C22H46	013287-25-7	91
4	2-methyloctacosane		408	C29H60	1000376-72-8	91
5	Hexacosane		366	C26H54	000630-01-3	91



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118410.D
Acq On : 31 Dec 2019 17:30
Operator : JU
Sample : K6469-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

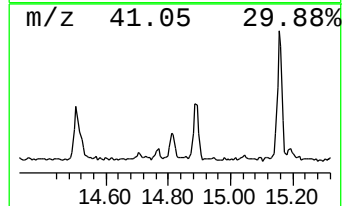
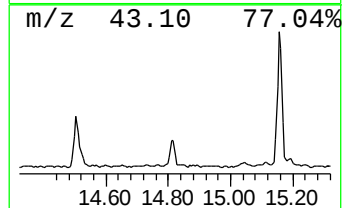
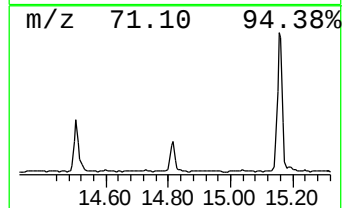
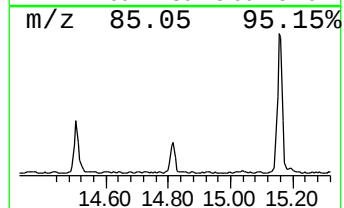
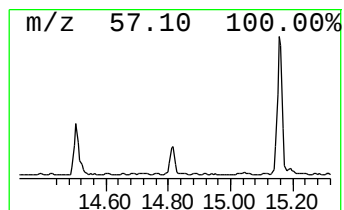
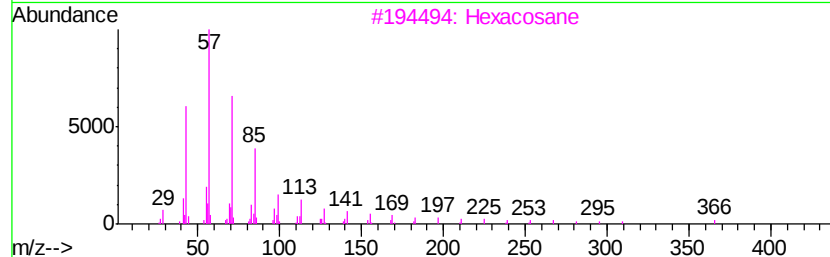
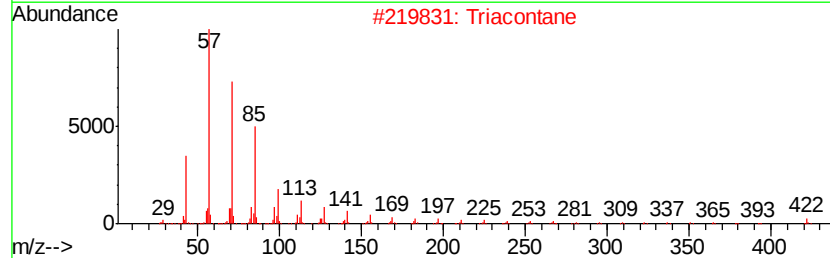
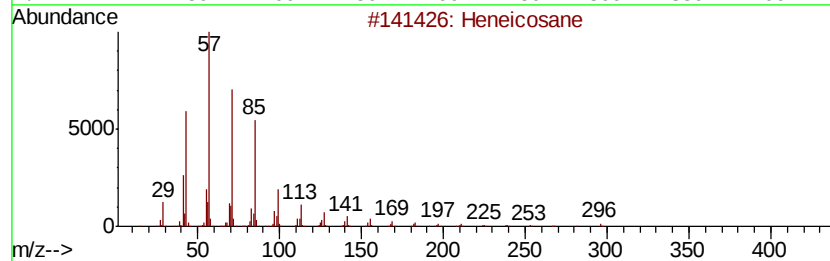
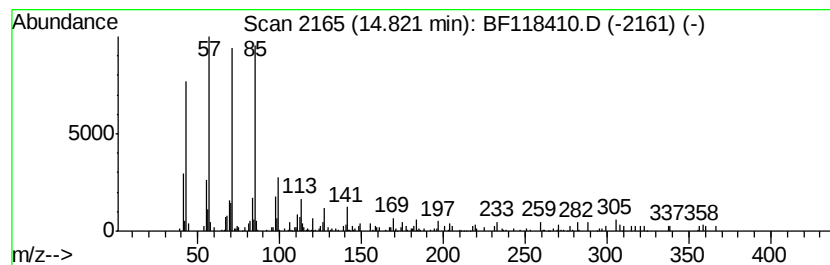
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Octacosane Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.82	5.54 ng	242569	Perylene-d12	15.55

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heneicosane	296	C21H44	000629-94-7	91
2			Triacontane	422	C30H62	000638-68-6	91
3			Hexacosane	366	C26H54	000630-01-3	91
4			Docosane	310	C22H46	000629-97-0	91
5			Octacosane	394	C28H58	000630-02-4	91



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118410.D
Acq On : 31 Dec 2019 17:30
Operator : JU
Sample : K6469-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

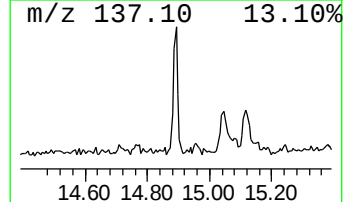
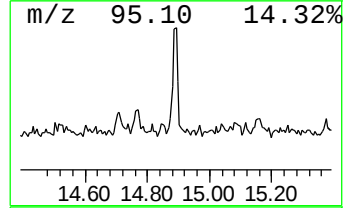
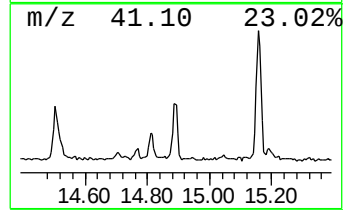
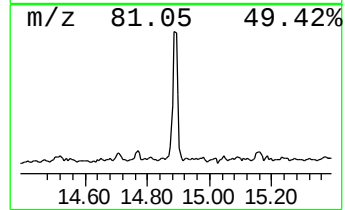
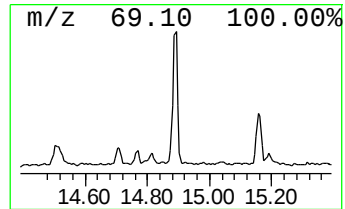
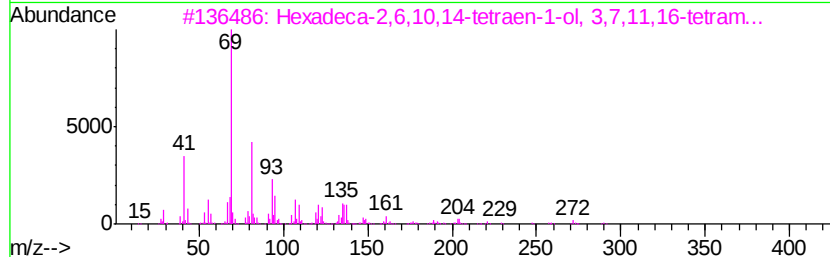
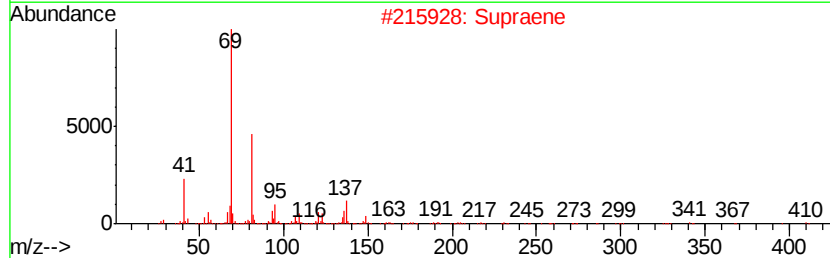
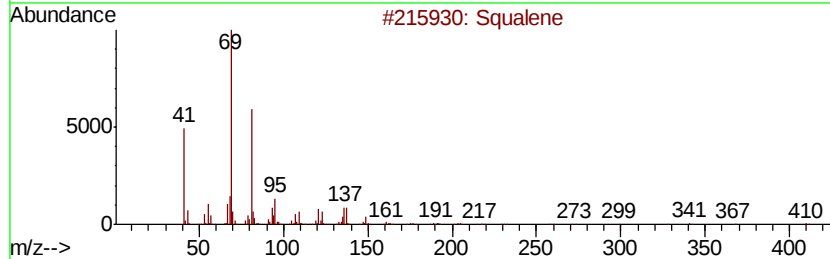
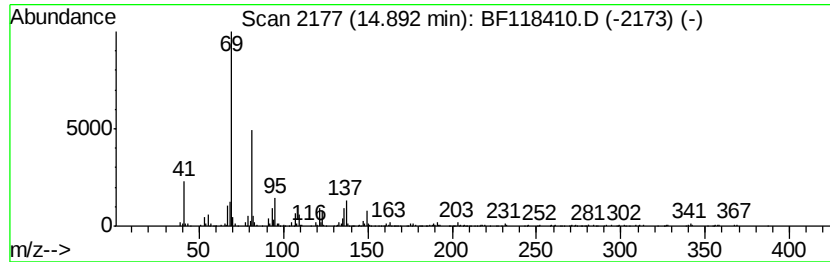
Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Squalene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.89	9.31 ng	407523	Perylene-d12	15.55
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Squalene	410 C30H50	000111-02-4	91
2	Supraene	410 C30H50	007683-64-9	91
3	Hexadeca-2,6,10,14-tetraen-1-ol,...	290 C20H34O	007614-21-3	72
4	2,6,10-Dodecatrien-1-ol, 3,7,11-...	222 C15H26O	004602-84-0	72
5	7,11-Dimethyldodeca-2,6,10-trien...	208 C14H24O	125529-10-4	72



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118410.D
Acq On : 31 Dec 2019 17:30
Operator : JU
Sample : K6469-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

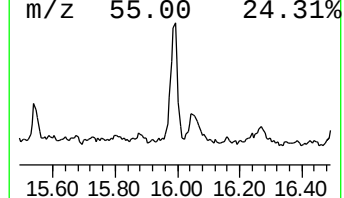
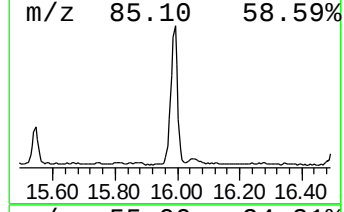
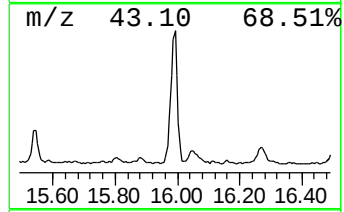
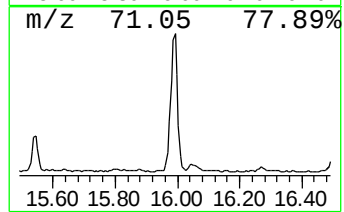
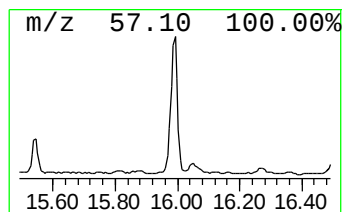
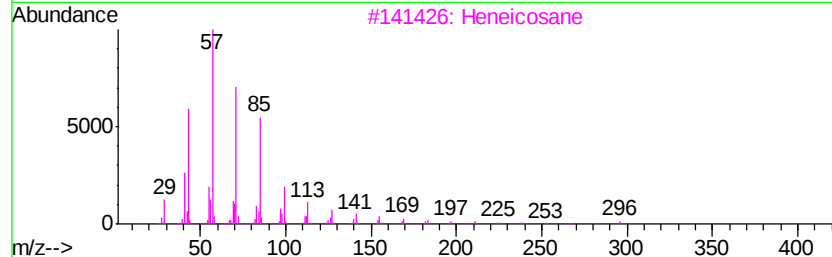
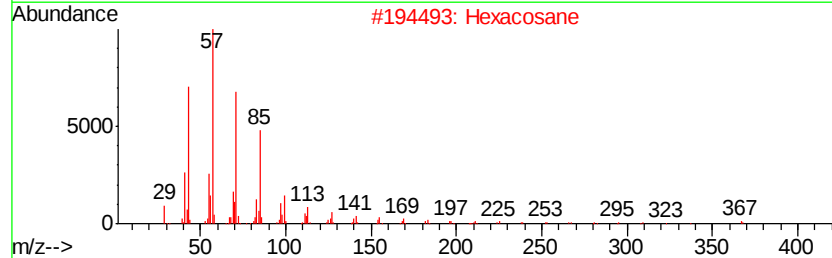
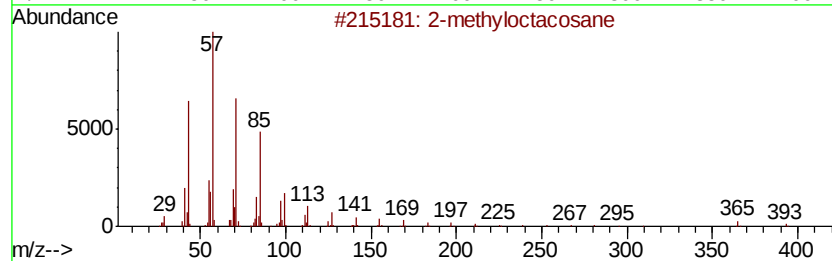
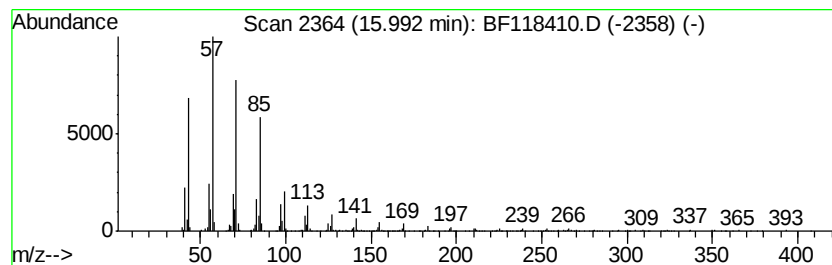
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 2-methyloctacosane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.99	27.31 ng	1195620	Perylene-d12	15.55

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	2-methyloctacosane	408	C29H60	1000376-72-8	91
2		Hexacosane	366	C26H54	000630-01-3	91
3		Heneicosane	296	C21H44	000629-94-7	91
4		Tetracosane	338	C24H50	000646-31-1	91
5		Hexacosane, 9-octyl-	479	C34H70	055429-83-9	91



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
 Data File : BF118410.D
 Acq On : 31 Dec 2019 17:30
 Operator : JU
 Sample : K6469-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 174-NC-TOPSOIL-001

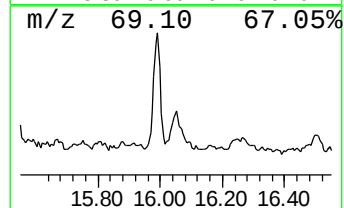
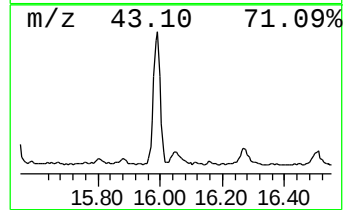
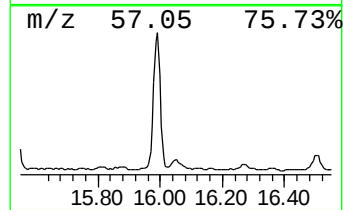
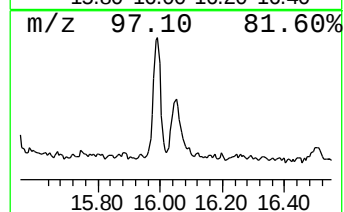
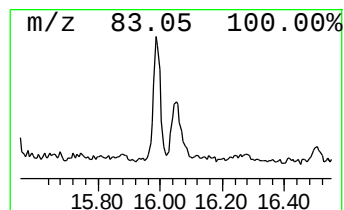
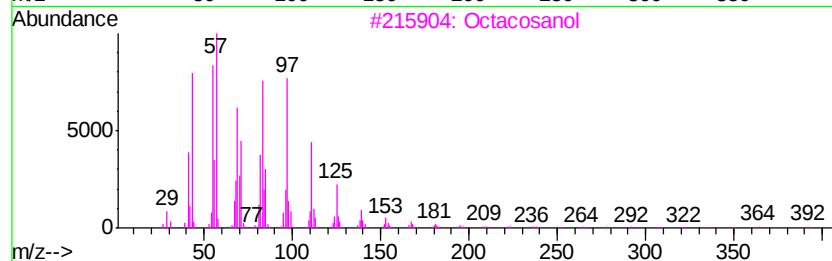
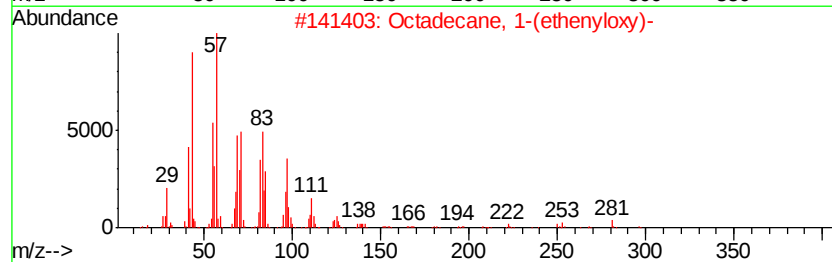
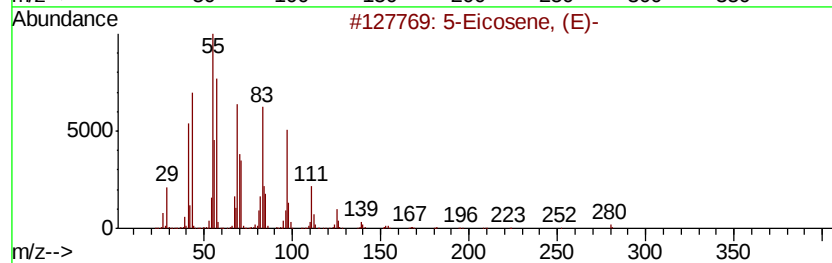
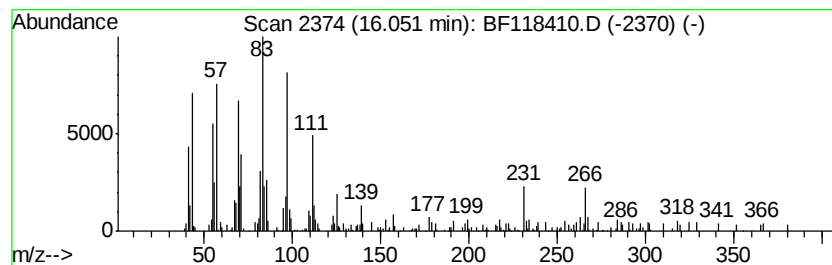
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

 Peak Number 15 5-Eicosene, (E)- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.05	9.21 ng	403340	Perylene-d12	15.55

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	5-Eicosene, (E)-	280	C20H40	074685-30-6	76
2		Octadecane, 1-(ethenyloxy)-	296	C20H40O	000930-02-9	74
3		Octacosanol	410	C28H58O	000557-61-9	70
4		Octacosyl acetate	452	C30H60O2	018206-97-8	60
5		1-Eicosene	280	C20H40	003452-07-1	55



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118410.D
Acq On : 31 Dec 2019 17:30
Operator : JU
Sample : K6469-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

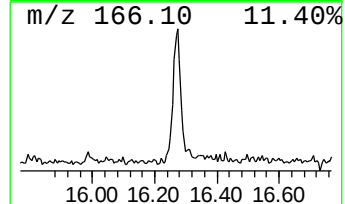
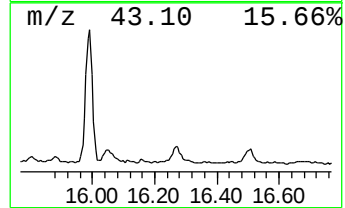
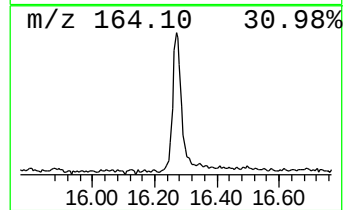
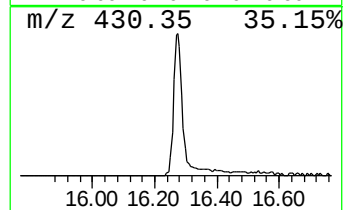
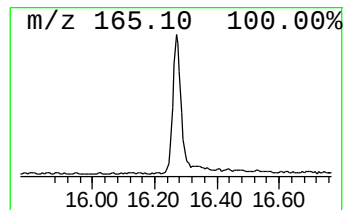
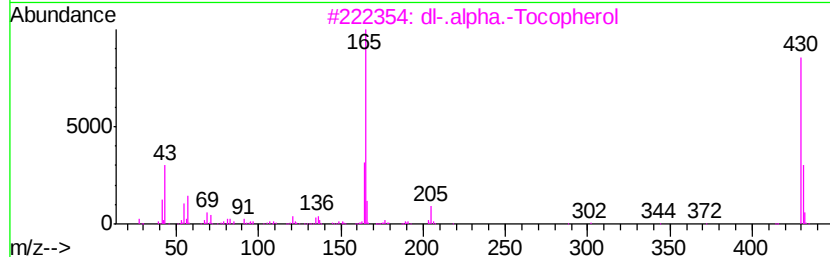
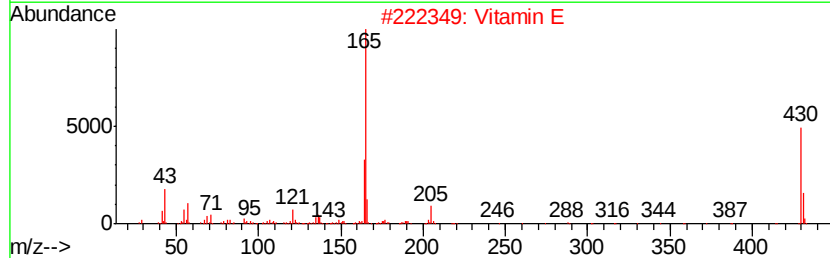
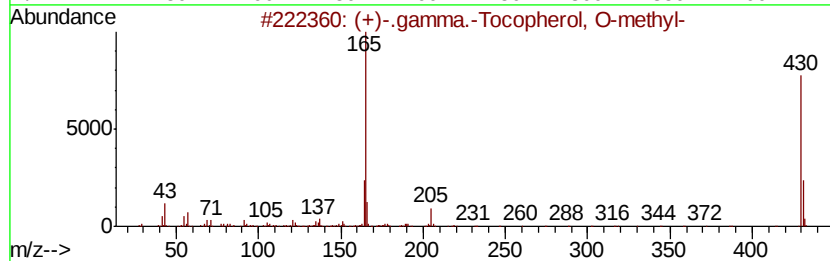
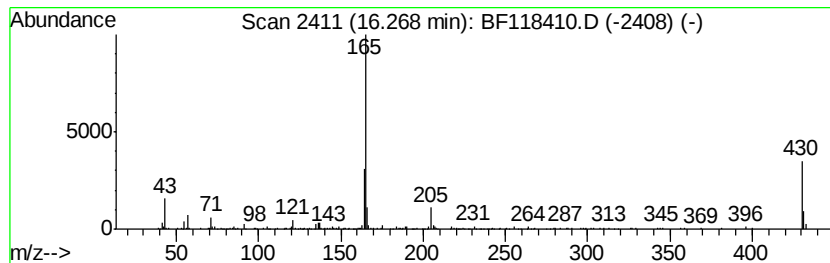
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 (+)-.gamma.-Tocopherol, O-m... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.27	10.07 ng	440771	Perylene-d12	15.55

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	(+)-.gamma.-Tocopherol, O-methyl-	430	C29H50O2	1000374-72-2	97
2		Vitamin E	430	C29H50O2	000059-02-9	96
3		dl-.alpha.-Tocopherol	430	C29H50O2	010191-41-0	94
4		.alpha.-Tocopherol-.beta.-D-mann...	592	C35H60O7	1000156-68-2	90
5		Acetamide, N-(4-chlorobenzyl)-2-...	345	C17H16ClN3OS	1000304-65-3	58



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118410.D
Acq On : 31 Dec 2019 17:30
Operator : JU
Sample : K6469-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

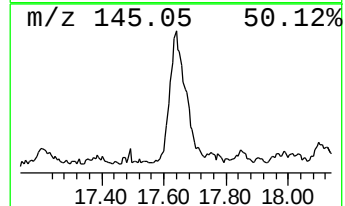
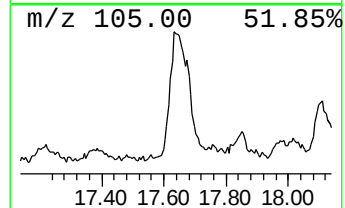
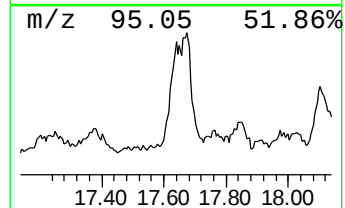
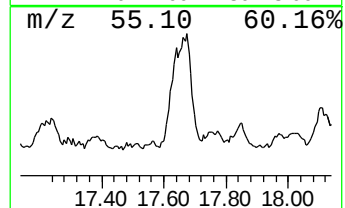
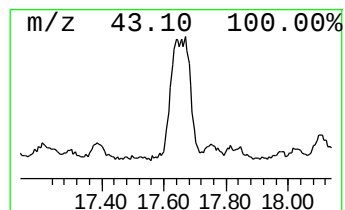
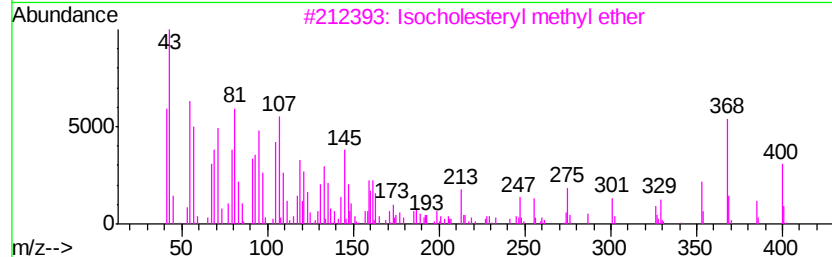
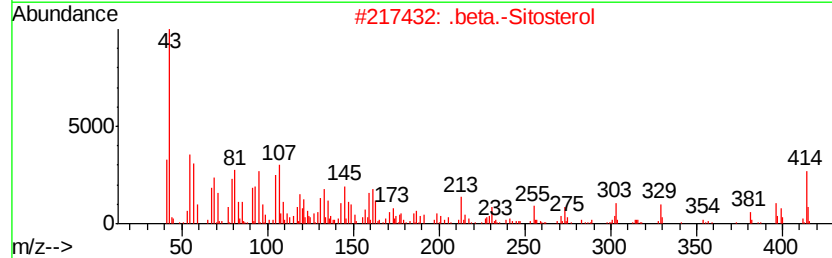
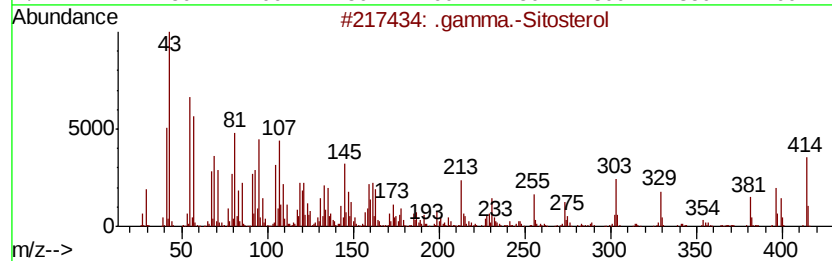
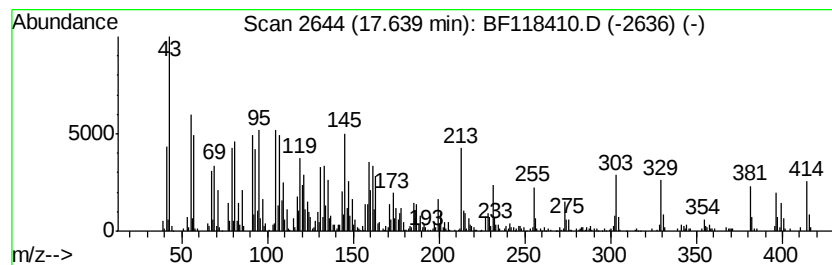
Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 .gamma.-Sitosterol Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.	
17.64	26.47 ng	1158790	Perylene-d12	15.55	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	99
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	99
3	Isocholesteryl methyl ether	400	C28H48O	029944-53-4	43
4	Stigmastan-3-en-6-ol	414	C29H50O	1000214-19-7	38
5	5-Cholestene-3-ol, 24-methyl-	400	C28H48O	1000214-17-4	38



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118410.D
Acq On : 31 Dec 2019 17:30
Operator : JU
Sample : K6469-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

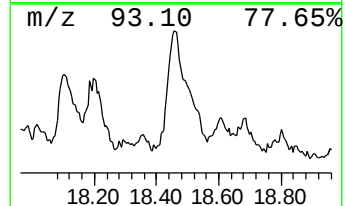
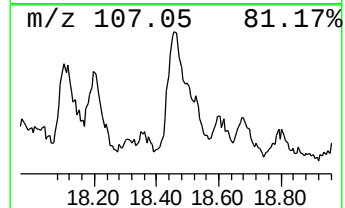
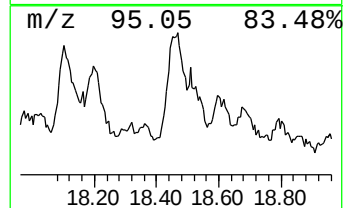
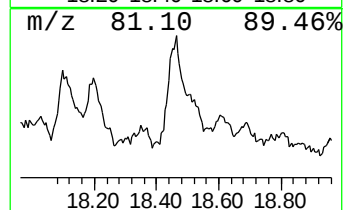
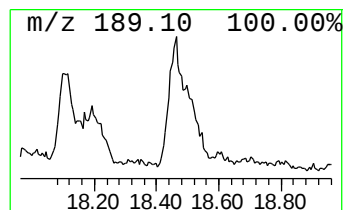
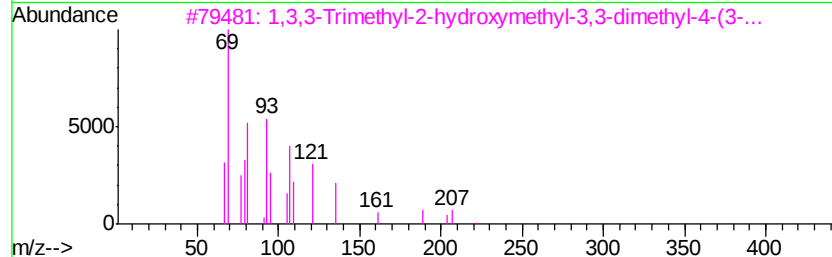
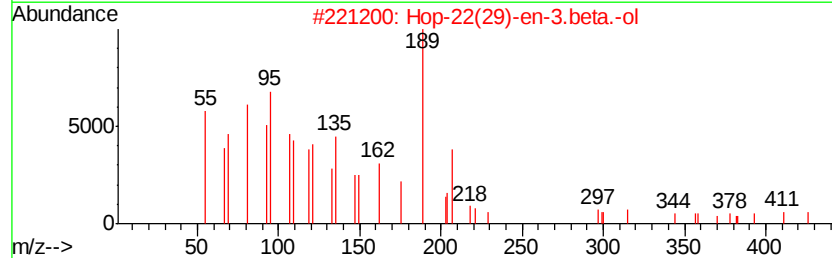
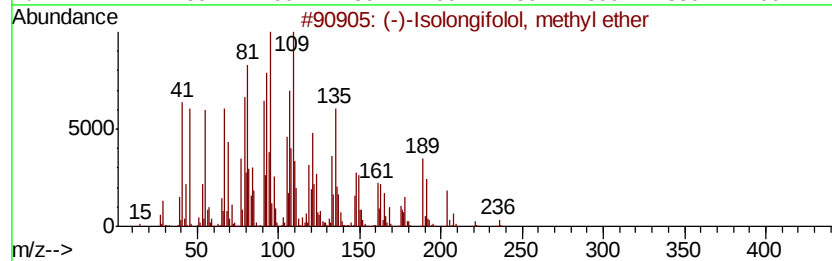
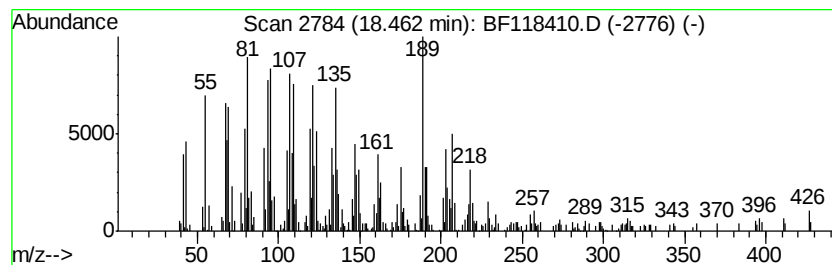
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 (-)-Isolongifolol, methyl e... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.46	21.63 ng	946959	Perylene-d12	15.55

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	(-)-Isolongifolol, methyl ether	236	C16H28O	1000333-80-8	86
2		Hop-22(29)-en-3.beta.-ol	426	C30H50O	058801-23-3	78
3		1,3,3-Trimethyl-2-hydroxymethyl-...	222	C15H26O	1000144-10-7	64
4		1H-Cyclopropylazulen-4-ol, deca...	222	C15H26O	000552-02-3	51
5		Caparratriene	206	C15H26	1000374-08-7	49



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF123119\
Data File : BF118410.D
Acq On : 31 Dec 2019 17:30
Operator : JU
Sample : K6469-01
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
174-NC-TOPSOIL-001

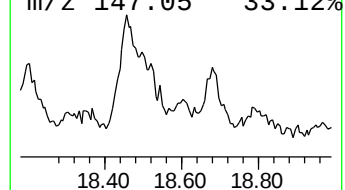
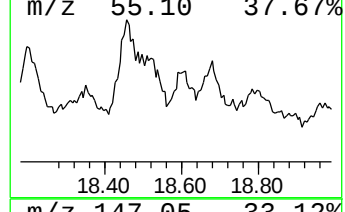
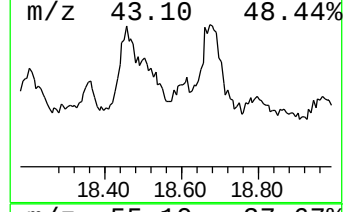
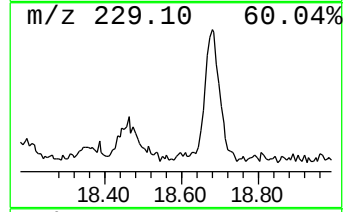
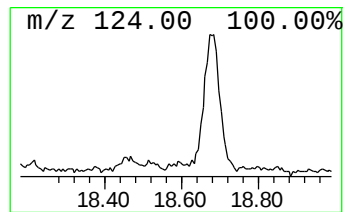
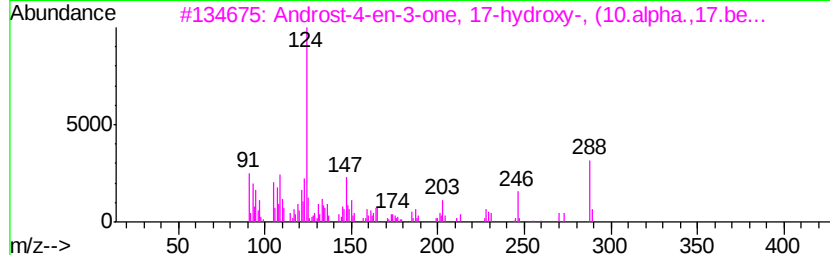
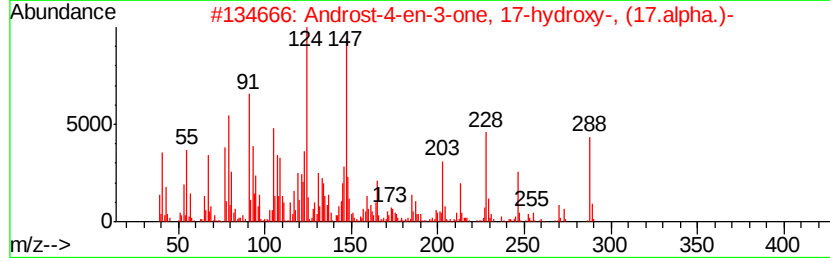
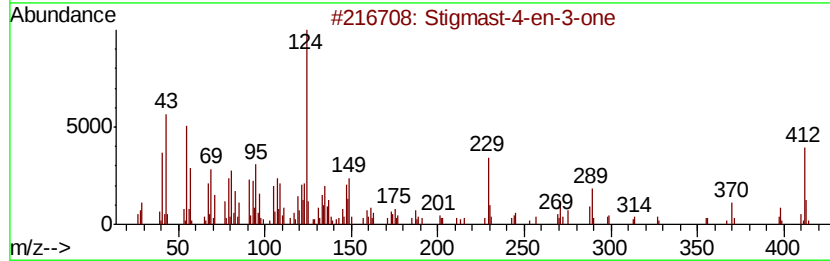
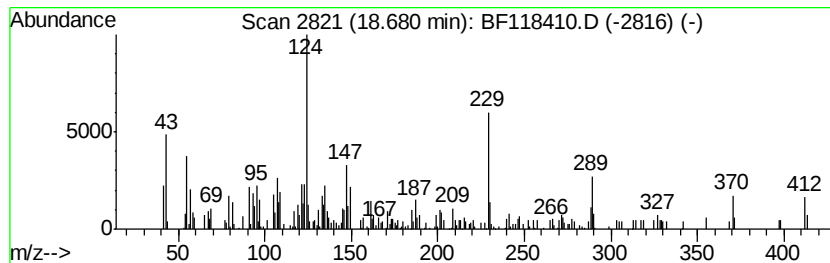
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF122419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Stigmast-4-en-3-one Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.68	10.23 ng	447902	Perylene-d12	15.55

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Stigmast-4-en-3-one	412	C29H48O	001058-61-3	98
2		Androst-4-en-3-one, 17-hydroxy-, ...	288	C19H28O2	000481-30-1	68
3		Androst-4-en-3-one, 17-hydroxy-, ...	288	C19H28O2	000604-39-7	64
4		Testosterone	288	C19H28O2	000058-22-0	45
5		Atropine	289	C17H23NO3	000051-55-8	38



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF123119\
 Data File : BF118410.D
 Acq On : 31 Dec 2019 17:30
 Operator : JU
 Sample : K6469-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 174-NC-TOPSOIL-001

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF122419.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
2-Pentanone, 4-hy...	5.06	12.2	ng	253554	1	6.85	414494	20.0
unknown6.63	6.63	84.9	ng	1759630	1	6.85	414494	20.0
n-Hexadecanoic acid	11.92	18.8	ng	861681	4	11.40	915539	20.0
9,15-Octadecadien...	12.46	8.4	ng	384461	4	11.40	915539	20.0
9-Octadecenoic ac...	12.49	6.4	ng	294059	4	11.40	915539	20.0
Phytol	12.53	6.5	ng	297006	4	11.40	915539	20.0
Octadecanoic acid	12.70	5.1	ng	234717	4	11.40	915539	20.0
2-Phenanthrenol, ...	13.42	6.1	ng	271104	5	14.05	895301	20.0
1-Nonadecene	13.88	8.6	ng	385081	5	14.05	895301	20.0
Heneicosane	14.50	13.9	ng	620701	5	14.05	895301	20.0
Octacosane	14.82	5.5	ng	242569	6	15.55	875608	20.0
Squalene	14.89	9.3	ng	407523	6	15.55	875608	20.0
2-methyloctacosane	15.99	27.3	ng	1195620	6	15.55	875608	20.0
5-Eicosene, (E)-	16.05	9.2	ng	403340	6	15.55	875608	20.0
(+)-.gamma.-Tocop...	16.27	10.1	ng	440771	6	15.55	875608	20.0
.gamma.-Sitosterol	17.64	26.5	ng	1158790	6	15.55	875608	20.0
4,4,6a,6b,8a,11,1...	18.11	25.0	ng	1092600	6	15.55	875608	20.0
(-)-Isolongifolol...	18.46	21.6	ng	946959	6	15.55	875608	20.0
Stigmast-4-en-3-one	18.68	10.2	ng	447902	6	15.55	875608	20.0