

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF121218\
 Data File : BF111333.D
 Acq On : 12 Dec 2018 20:38
 Operator : JU/SJ
 Sample : J6214-09
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-4(0-2)

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-BF121218.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	3.216	191	192	204	rBV	43996	113188	1.71%	0.136%
2	4.999	492	495	502	rVB	329718	402461	6.09%	0.484%
3	5.381	556	560	561	rBV	126617	121089	1.83%	0.146%
4	5.410	561	565	568	rVV	5947465	5909406	89.39%	7.105%
5	6.428	733	738	749	rVB	5890430	6610703	100.00%	7.948%
6	6.563	756	761	764	rBV	6627531	6171413	93.35%	7.420%
7	6.793	796	800	803	rBV	2307436	1817315	27.49%	2.185%
8	6.951	823	827	830	rBV	5760286	4800247	72.61%	5.772%
9	7.351	889	895	898	rBV	4233981	3976158	60.15%	4.781%
10	8.075	1014	1018	1020	rBV	2768891	2242650	33.92%	2.696%
11	8.092	1020	1021	1029	rVB	410110	355862	5.38%	0.428%
12	8.787	1133	1139	1142	rBV	229032	188631	2.85%	0.227%
13	8.887	1152	1156	1160	rVB	177436	145535	2.20%	0.175%
14	9.151	1197	1201	1204	rBV	6567331	5502741	83.24%	6.616%
15	9.251	1215	1218	1222	rVB2	92517	105057	1.59%	0.126%
16	9.416	1242	1246	1250	rBV2	67707	97541	1.48%	0.117%
17	9.486	1255	1258	1261	rBV	122570	113874	1.72%	0.137%
18	9.539	1265	1267	1271	rVV	865918	749215	11.33%	0.901%
19	9.686	1288	1292	1296	rVB	197830	167266	2.53%	0.201%
20	9.828	1311	1316	1319	rBV	2375540	2052907	31.05%	2.468%
21	9.857	1319	1321	1325	rVB	648027	562032	8.50%	0.676%
22	10.034	1347	1351	1354	rBV	319814	274734	4.16%	0.330%
23	10.233	1381	1385	1390	rBV3	67192	117692	1.78%	0.142%
24	10.375	1406	1409	1414	rVB	493432	435605	6.59%	0.524%
25	10.463	1422	1424	1426	rVB	97359	71022	1.07%	0.085%
26	10.533	1434	1436	1441	rVB	129051	108551	1.64%	0.131%
27	10.616	1445	1450	1454	rVV	2645746	2604765	39.40%	3.132%
28	10.657	1454	1457	1462	rVB4	77906	107394	1.62%	0.129%
29	10.739	1468	1471	1478	rVB	129241	152130	2.30%	0.183%
30	10.922	1495	1502	1505	rBV3	109354	175049	2.65%	0.210%
31	11.051	1519	1524	1525	rBV2	71258	90814	1.37%	0.109%
32	11.116	1532	1535	1538	rVB	145918	142809	2.16%	0.172%
33	11.151	1538	1541	1546	rVV2	180514	225380	3.41%	0.271%
34	11.204	1549	1550	1557	rVB	147092	138388	2.09%	0.166%

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF121218\
 Data File : BF111333.D
 Acq On : 12 Dec 2018 20:38
 Operator : JU/SJ
 Sample : J6214-09
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-4(0-2)

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-BF121218.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.310	1564	1568	1570	rBV	1820384	1631864	24.69%	1.962%
36	11.333	1570	1572	1576	rVV	3085450	2795098	42.28%	3.361%
37	11.386	1576	1581	1584	rVV	1005275	920120	13.92%	1.106%
38	11.416	1584	1586	1593	rVB	140987	155205	2.35%	0.187%
39	11.539	1601	1607	1610	rBV2	334930	416073	6.29%	0.500%
40	11.639	1622	1624	1628	rVB4	72419	69845	1.06%	0.084%
41	11.769	1643	1646	1648	rBV3	52012	66622	1.01%	0.080%
42	11.810	1650	1653	1656	rVV2	510046	542572	8.21%	0.652%
43	11.845	1656	1659	1663	rVV2	1506022	1643035	24.85%	1.976%
44	11.886	1663	1666	1669	rVV2	323430	355030	5.37%	0.427%
45	11.922	1669	1672	1675	rVV	690628	816386	12.35%	0.982%
46	11.945	1675	1676	1681	rVB	328698	223433	3.38%	0.269%
47	12.110	1701	1704	1705	rBV	286983	257859	3.90%	0.310%
48	12.127	1705	1707	1711	rVB	277187	227428	3.44%	0.273%
49	12.257	1727	1729	1732	rVB	96559	76292	1.15%	0.092%
50	12.310	1736	1738	1741	rVB2	128070	103415	1.56%	0.124%
51	12.363	1744	1747	1750	rBV	265615	269790	4.08%	0.324%
52	12.404	1750	1754	1758	rVV2	152573	275498	4.17%	0.331%
53	12.445	1758	1761	1766	rVB2	212822	258589	3.91%	0.311%
54	12.527	1771	1775	1778	rBV	3939836	3553078	53.75%	4.272%
55	12.633	1790	1793	1798	rBV2	642051	584079	8.84%	0.702%
56	12.751	1807	1813	1817	rBV2	3199538	3746333	56.67%	4.504%
57	12.798	1819	1821	1827	rVB2	192668	233578	3.53%	0.281%
58	12.869	1830	1833	1835	rBV	258824	242958	3.68%	0.292%
59	12.898	1835	1838	1845	rVB	4063749	3625400	54.84%	4.359%
60	12.974	1846	1851	1853	rBV2	245677	379871	5.75%	0.457%
61	13.057	1862	1865	1866	rBV2	180204	160703	2.43%	0.193%
62	13.080	1866	1869	1872	rVB	640629	563622	8.53%	0.678%
63	13.145	1877	1880	1883	rBV2	491816	426090	6.45%	0.512%
64	13.180	1883	1886	1889	rBV	394490	417776	6.32%	0.502%
65	13.239	1894	1896	1900	rBV3	104503	122897	1.86%	0.148%
66	13.274	1900	1902	1905	rVB	166079	140614	2.13%	0.169%
67	13.304	1905	1907	1913	rBV2	203147	213836	3.23%	0.257%
68	13.480	1935	1937	1940	rBV2	217850	203794	3.08%	0.245%
69	13.586	1952	1955	1960	rVB	232746	281585	4.26%	0.339%
70	13.727	1977	1979	1981	rBV	253265	179898	2.72%	0.216%
71	13.792	1987	1990	1991	rBV2	208403	206767	3.13%	0.249%

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF121218\
Data File : BF111333.D
Acq On : 12 Dec 2018 20:38
Operator : JU/SJ
Sample : J6214-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

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-BF121218.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	13.810	1991	1993	1998	rVB	525292	472750	7.15%	0.568%
73	13.945	2012	2016	2019	rBV3	2077502	2912078	44.05%	3.501%
74	13.974	2019	2021	2024	rVB	1397723	1052269	15.92%	1.265%
75	14.057	2033	2035	2037	rBV	214514	161847	2.45%	0.195%
76	14.127	2045	2047	2051	rVB2	457437	425605	6.44%	0.512%
77	14.433	2096	2099	2101	rBV2	488909	452609	6.85%	0.544%
78	14.733	2148	2150	2155	rBV	296599	297187	4.50%	0.357%
79	14.980	2187	2192	2194	rBV	1025411	1628622	24.64%	1.958%
80	15.268	2238	2241	2247	rVB	662306	772795	11.69%	0.929%
81	15.327	2248	2251	2257	rVB	854272	980760	14.84%	1.179%
82	15.392	2258	2262	2264	rBV	643801	776704	11.75%	0.934%

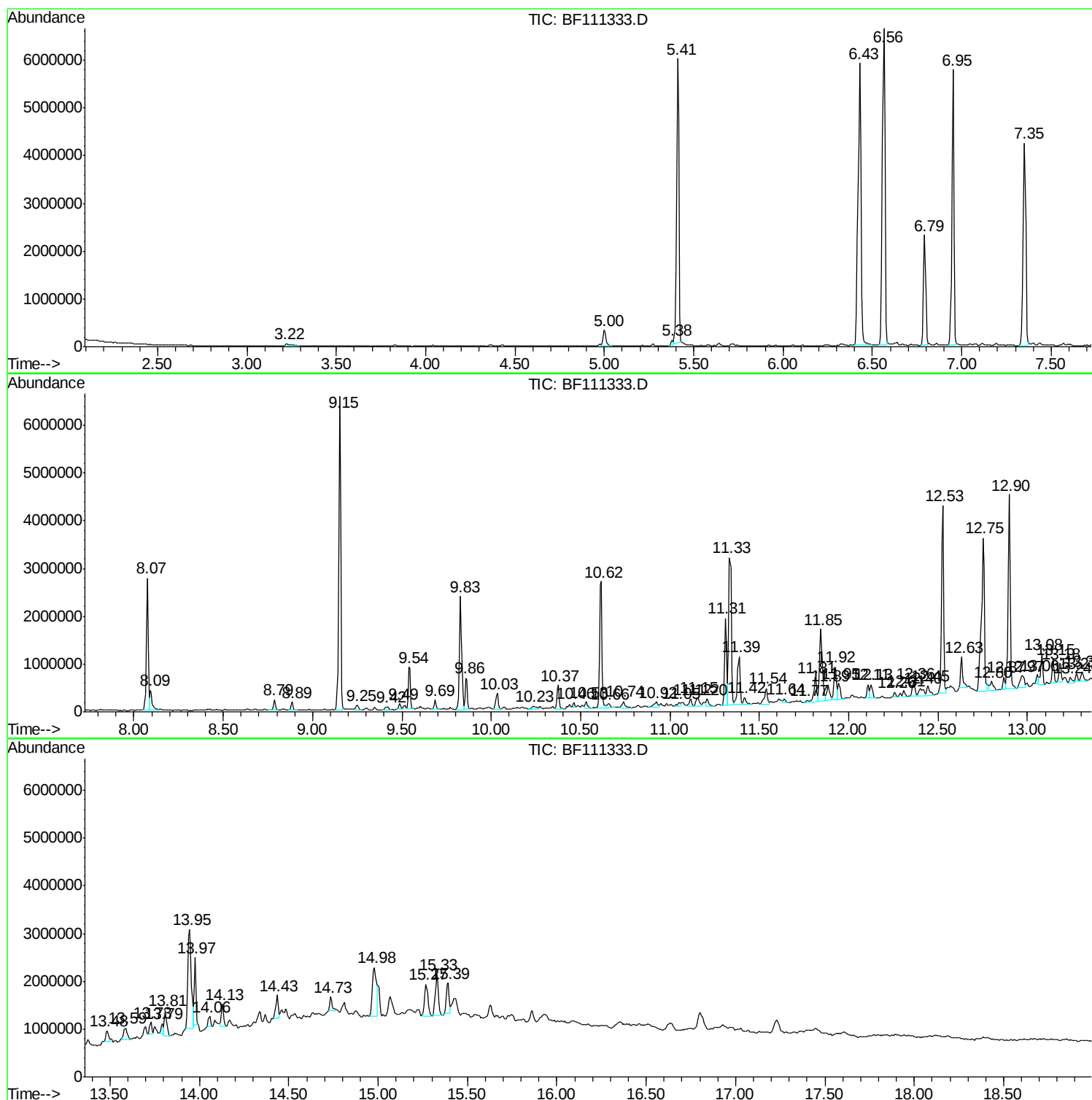
Sum of corrected areas: 83169883

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111333.D
Acq On : 12 Dec 2018 20:38
Operator : JU/SJ
Sample : J6214-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampled :
SB-4(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.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\BF121218\
Data File : BF111333.D
Acq On : 12 Dec 2018 20:38
Operator : JU/SJ
Sample : J6214-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

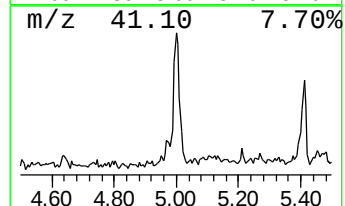
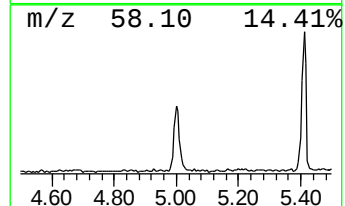
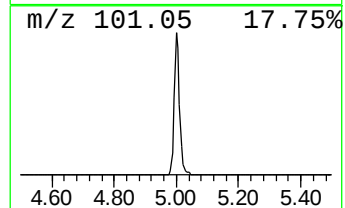
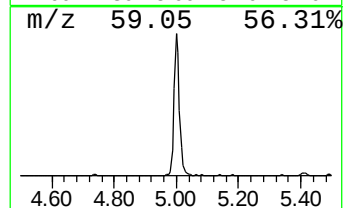
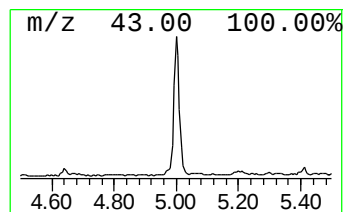
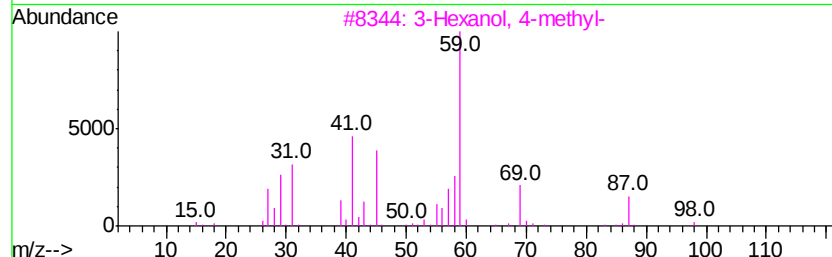
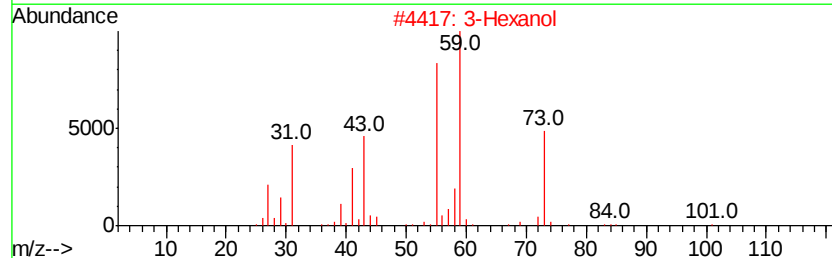
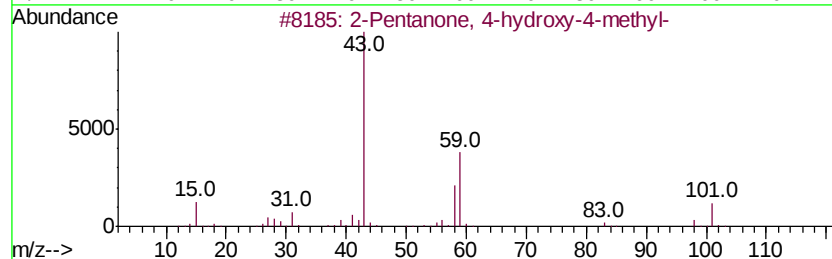
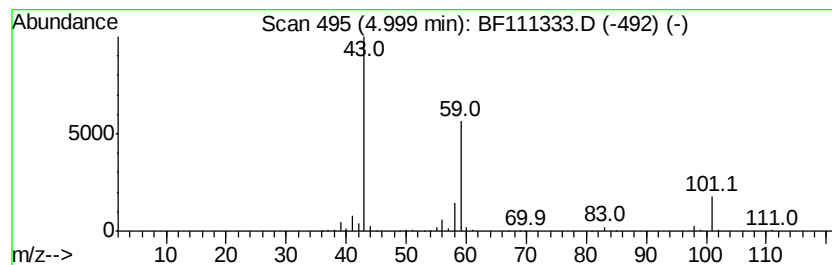
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.00	4.43 ng	402461	1,4-Dichlorobenzene-d4	6.79

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	42
2			3-Hexanol	102	C6H14O	000623-37-0	33
3			3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
4			Acetic acid, cyano-, 1,1-dimethyl...	141	C7H11NO2	001116-98-9	25
5			2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111333.D
Acq On : 12 Dec 2018 20:38
Operator : JU/SJ
Sample : J6214-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

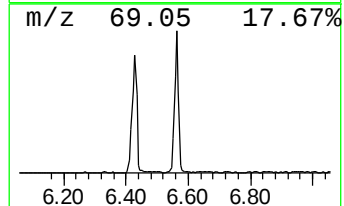
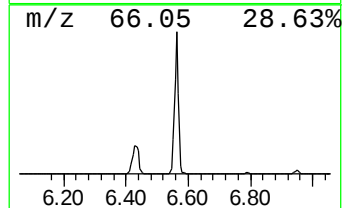
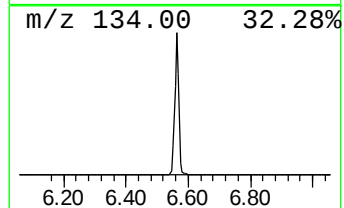
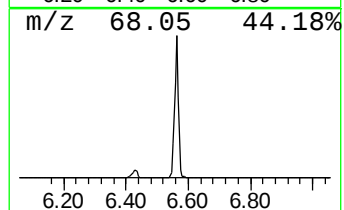
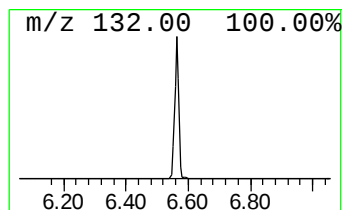
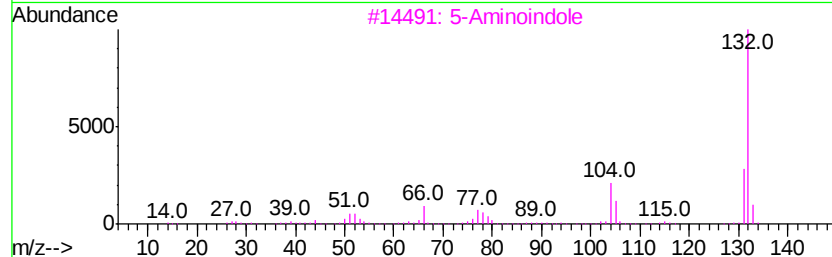
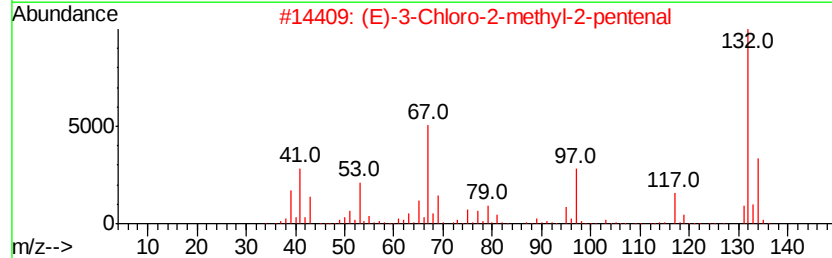
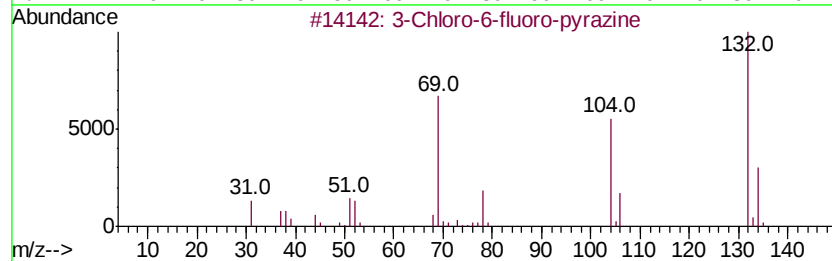
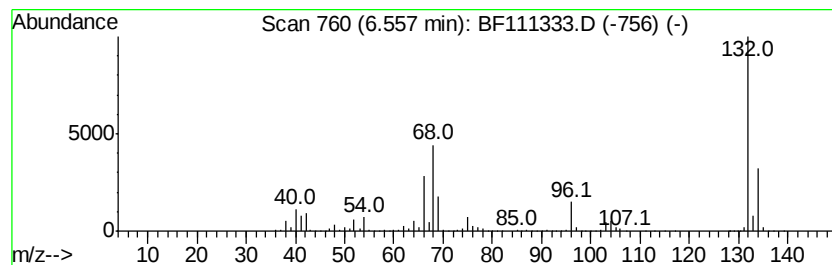
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 unknown6.56 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.56	67.92 ng	6171410	1,4-Dichlorobenzene-d4	6.79

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	16
3		5-Aminoindole	132	C8H8N2	005192-03-0	12
4		1,3,5-Trifluorobenzene	132	C6H3F3	000372-38-3	9
5		Xenon	132	Xe	007440-63-3	9



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111333.D
Acq On : 12 Dec 2018 20:38
Operator : JU/SJ
Sample : J6214-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

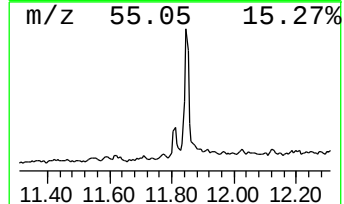
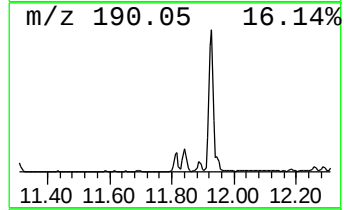
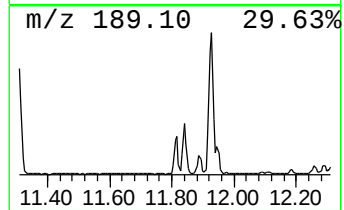
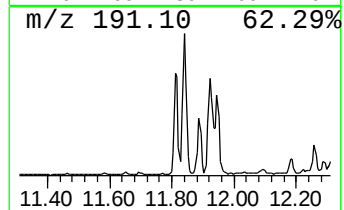
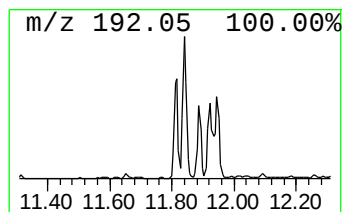
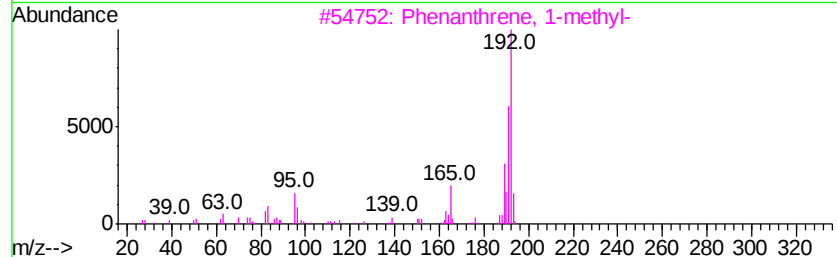
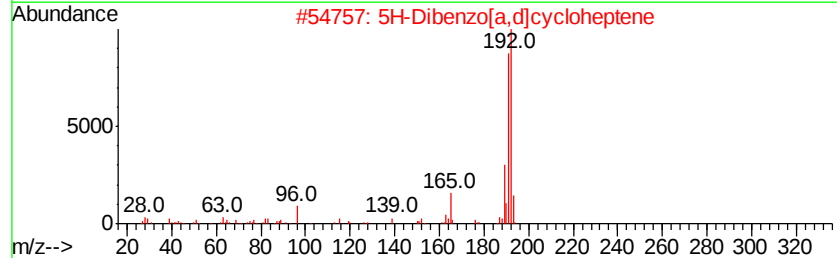
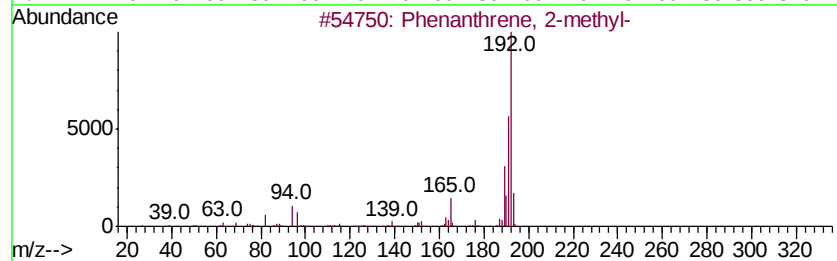
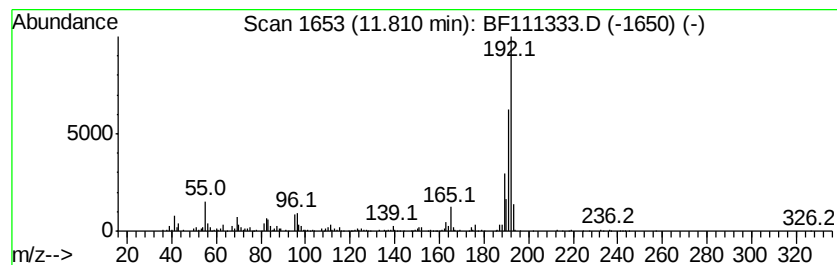
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.81	6.65 ng	542572	Phenanthrene-d10	11.31

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	94
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111333.D
Acq On : 12 Dec 2018 20:38
Operator : JU/SJ
Sample : J6214-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

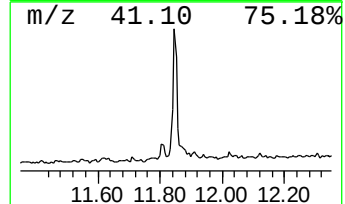
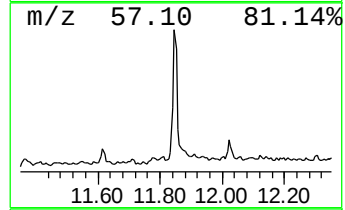
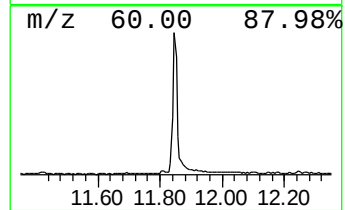
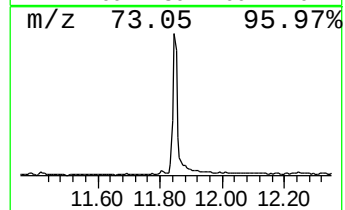
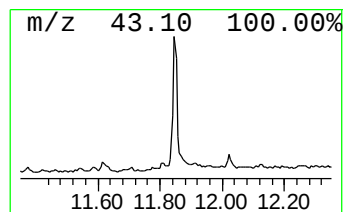
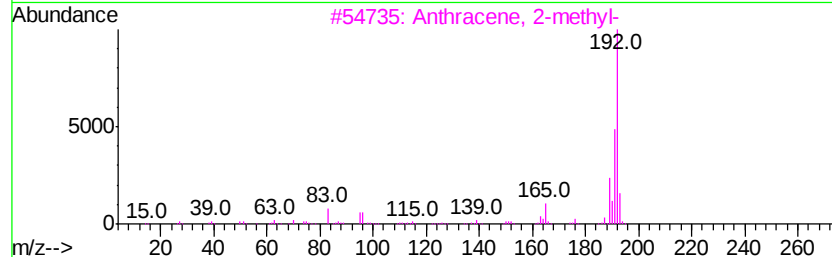
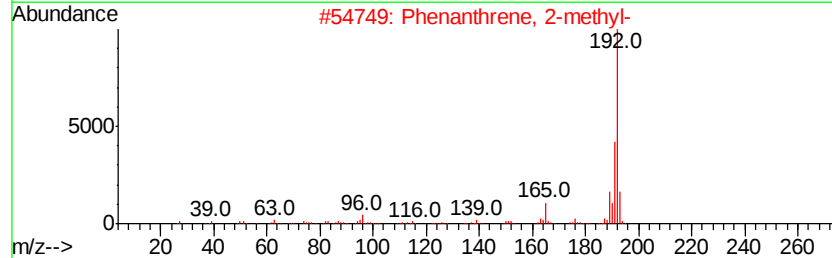
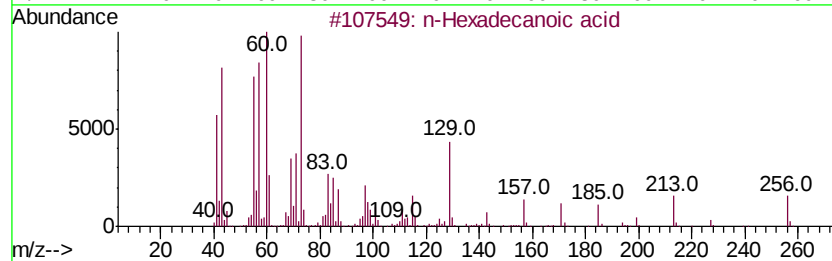
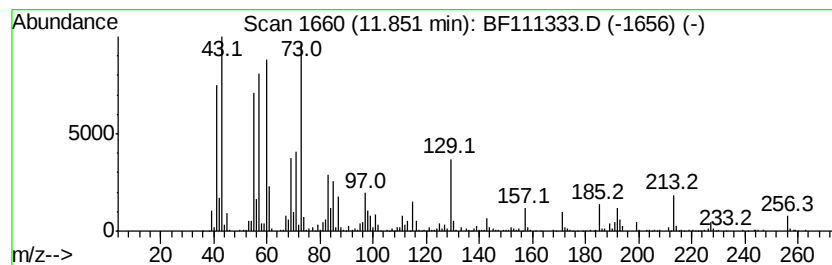
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.85	20.14 ng	1643040	Phenanthrene-d10	11.31

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		n-Hexadecanoic acid	256	C16H32O2	000057-10-3	97
2		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3		Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
4		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5		1H-Cyclopropa[1]phenanthrene, 1a,...	192	C15H12	000949-41-7	83



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111333.D
Acq On : 12 Dec 2018 20:38
Operator : JU/SJ
Sample : J6214-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

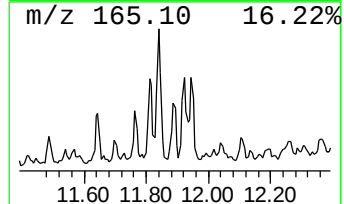
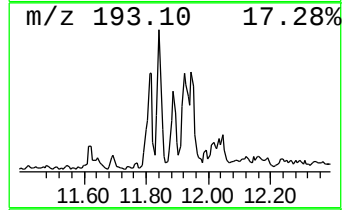
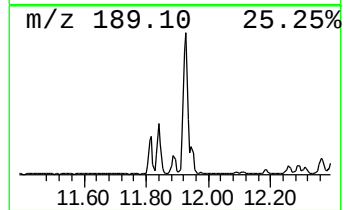
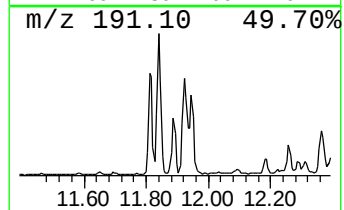
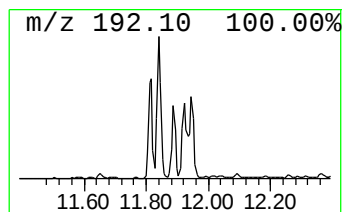
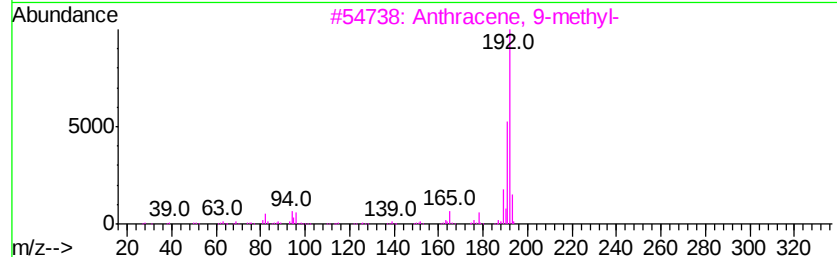
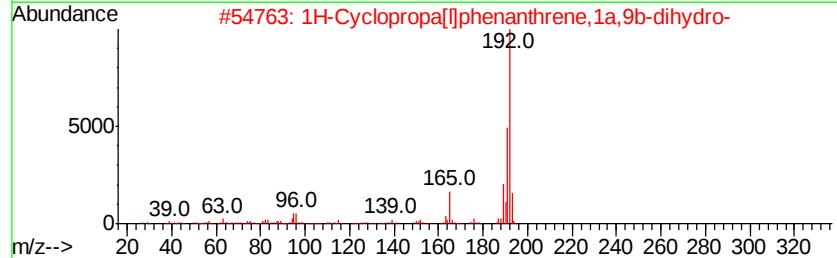
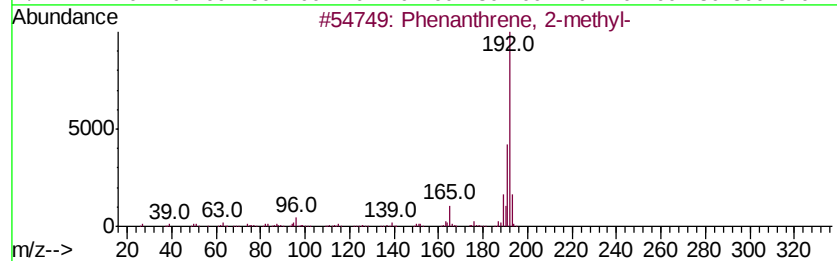
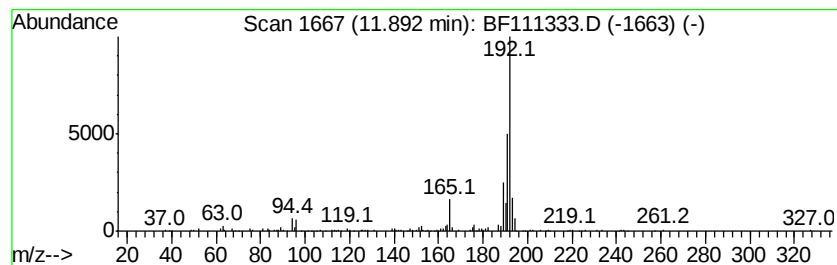
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.89	4.35 ng	355030	Phenanthrene-d10	11.31

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2		1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	96
3		Anthracene, 9-methyl-	192	C15H12	000779-02-2	96
4		1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94
5		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111333.D
Acq On : 12 Dec 2018 20:38
Operator : JU/SJ
Sample : J6214-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

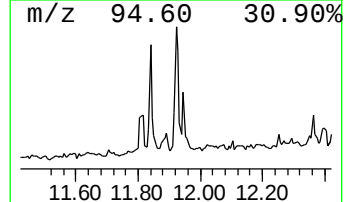
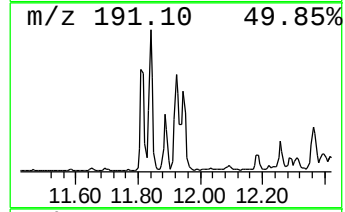
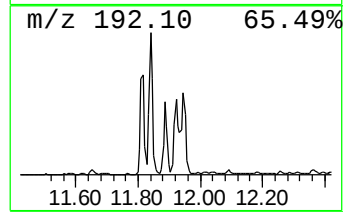
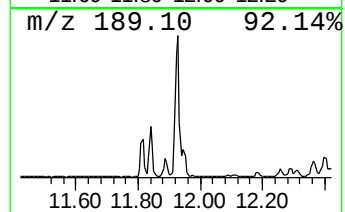
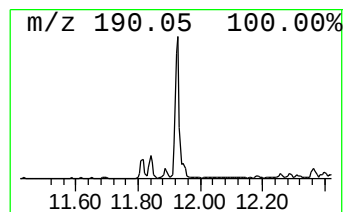
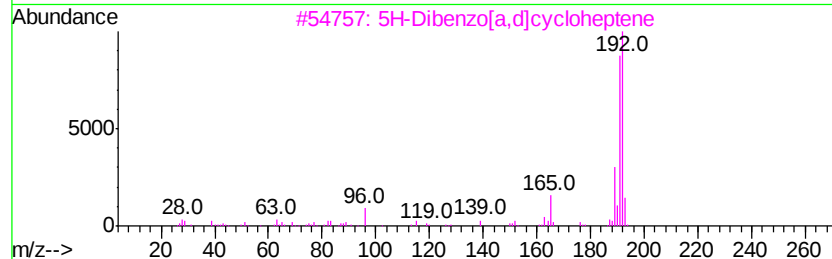
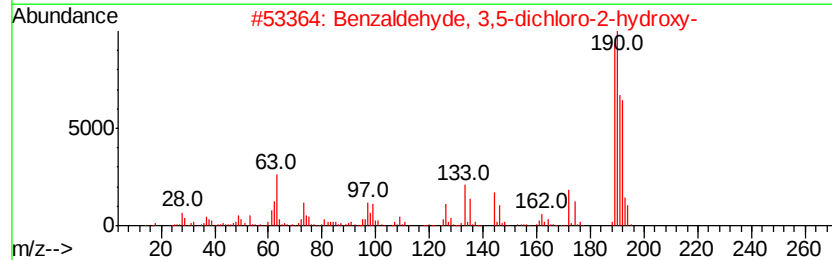
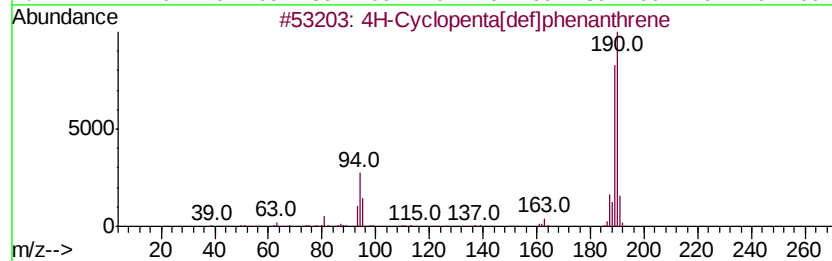
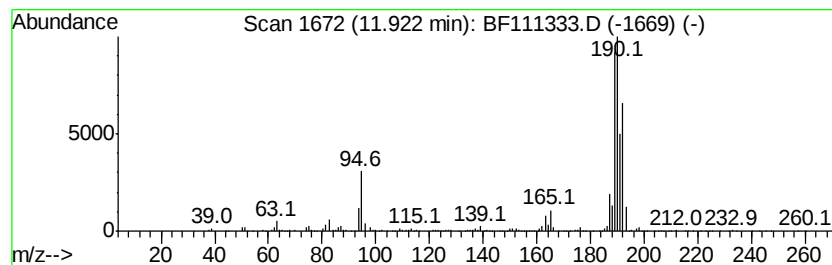
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.92	10.01 ng	816386	Phenanthrene-d10	11.31

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
2		Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	64
3		5H-Dibenzof[a,d]cycloheptene	192	C15H12	000256-81-5	30
4		1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	30
5		3-Bromo-2-furoic acid	190	C5H3BrO3	014903-90-3	27



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111333.D
Acq On : 12 Dec 2018 20:38
Operator : JU/SJ
Sample : J6214-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

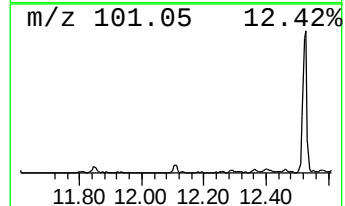
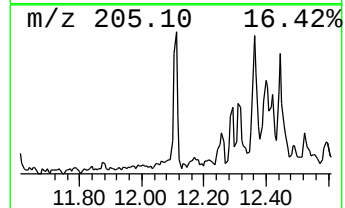
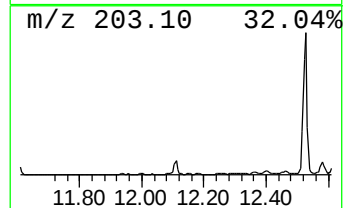
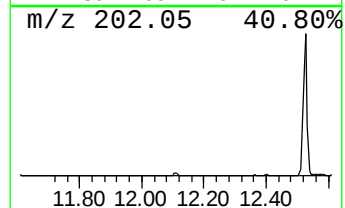
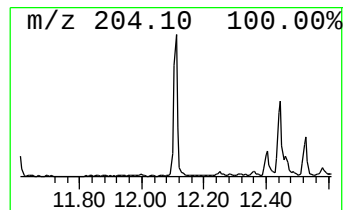
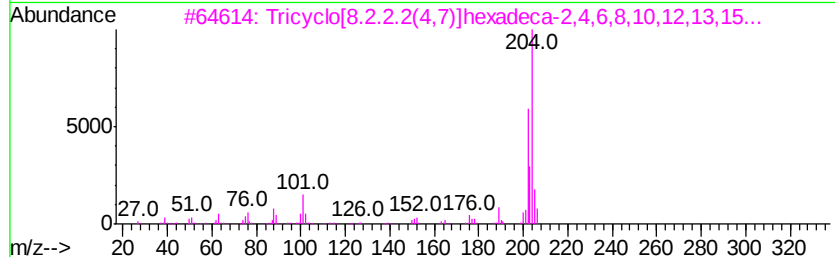
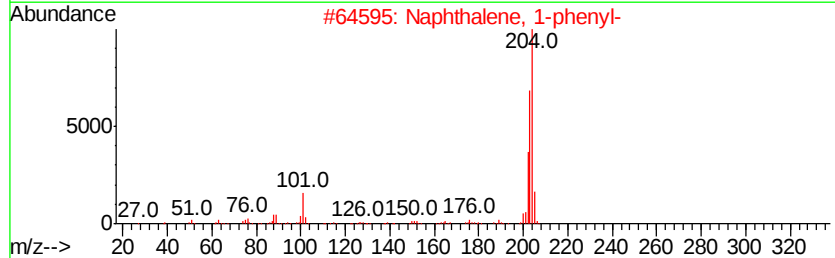
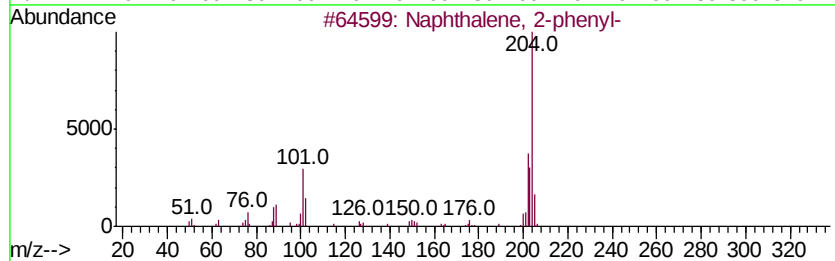
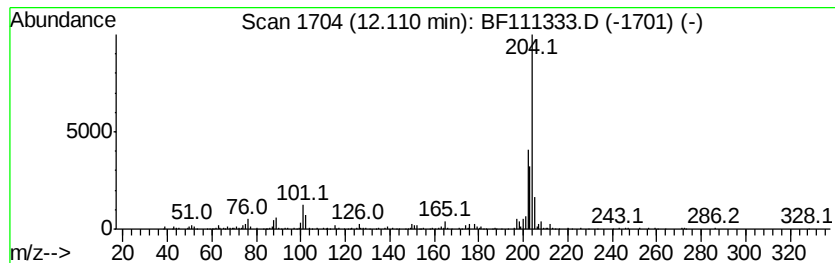
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Naphthalene, 1-phenyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.11	3.16 ng	257859	Phenanthrene-d10	11.31

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	78
3		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70
4		3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	50
5		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	47



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111333.D
Acq On : 12 Dec 2018 20:38
Operator : JU/SJ
Sample : J6214-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

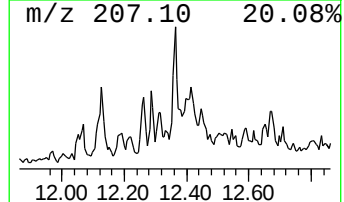
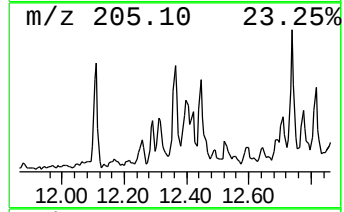
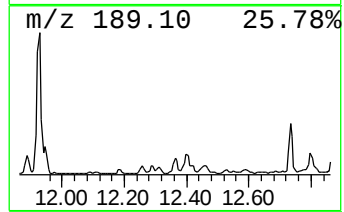
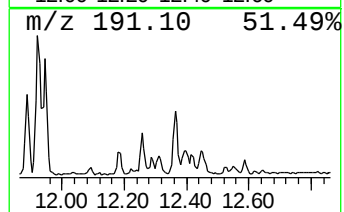
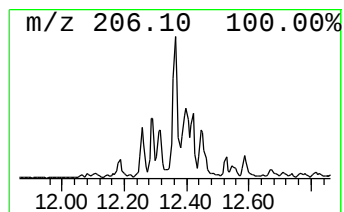
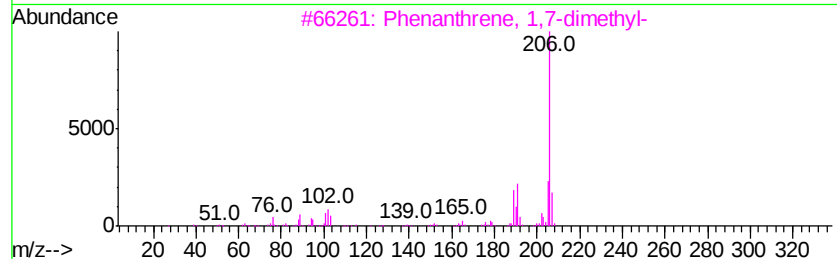
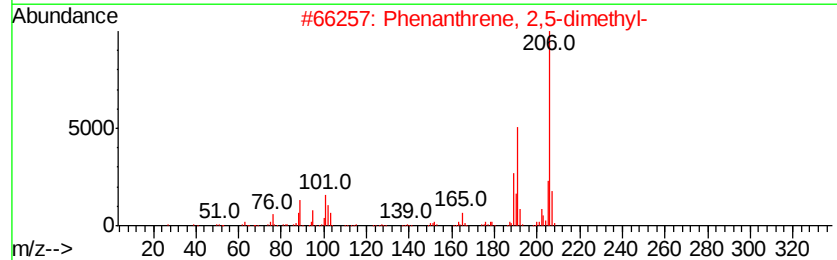
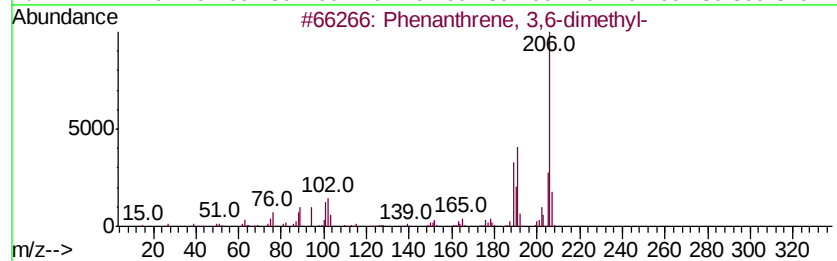
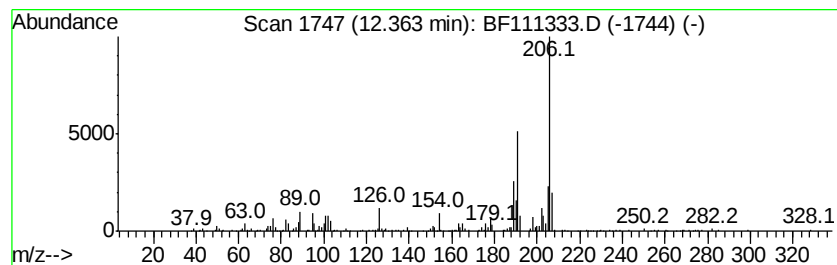
Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.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, 3,6-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD		R.T.	
12.36	3.31 ng	269790	Phenanthrene-d10		11.31	
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	95
2		Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	94
3		Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
4		9,10-Dimethylantracene	206	C16H14	000781-43-1	90
5		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111333.D
Acq On : 12 Dec 2018 20:38
Operator : JU/SJ
Sample : J6214-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

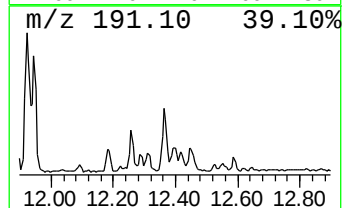
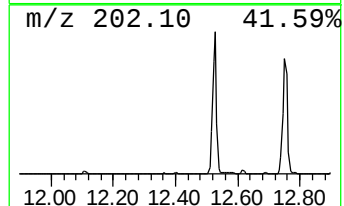
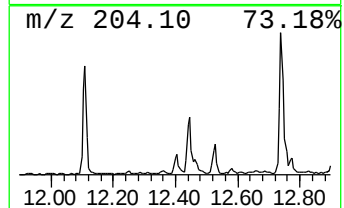
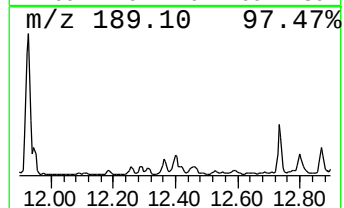
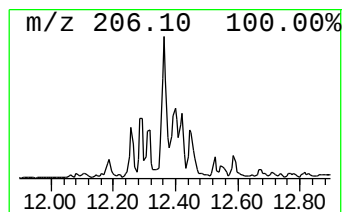
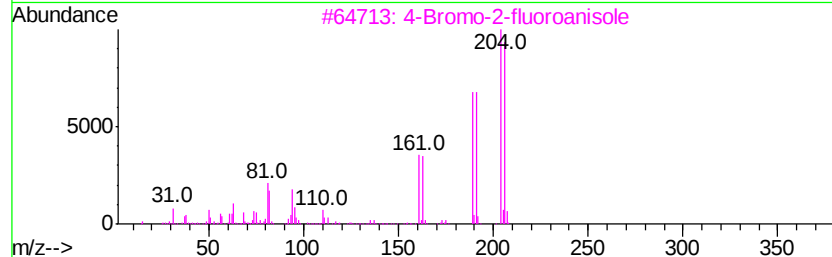
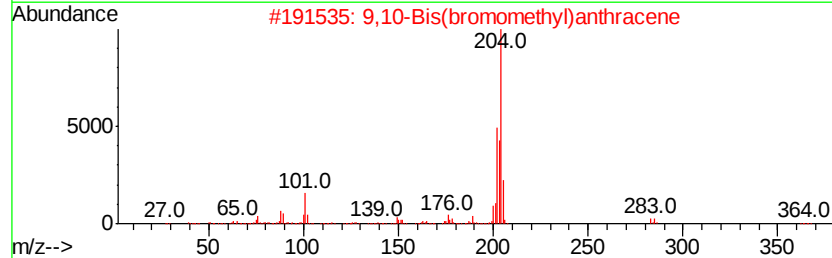
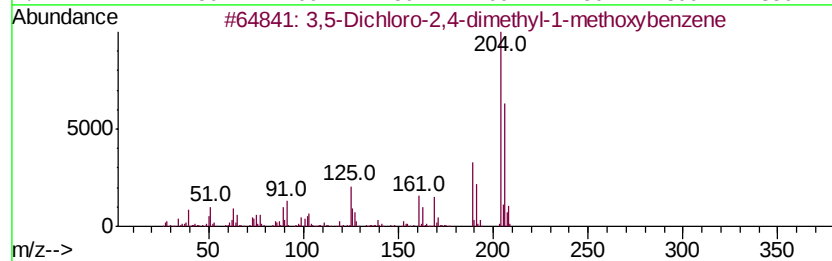
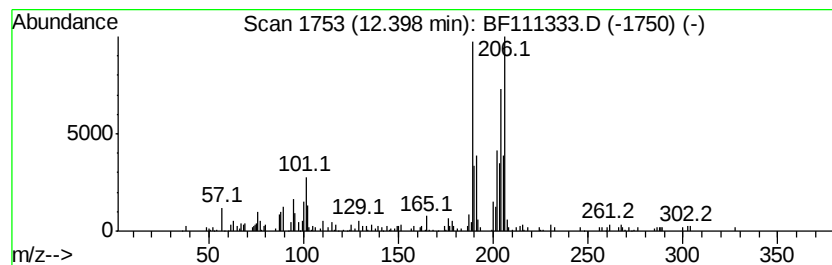
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 unknown12.40 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.40	3.38 ng	275498	Phenanthrene-d10	11.31

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3,5-Dichloro-2,4-dimethyl-1-meth...	204	C9H10Cl2O	1000250-17-8	45
2		9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	43
3		4-Bromo-2-fluoroanisole	204	C7H6BrFO	002357-52-0	38
4		3H-1,2-Dithiole-3-thione, 5-tert...	204	C8H12S3	013120-76-8	38
5		5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	35



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111333.D
Acq On : 12 Dec 2018 20:38
Operator : JU/SJ
Sample : J6214-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

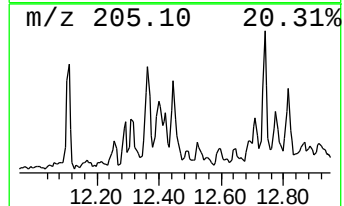
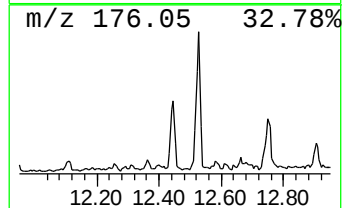
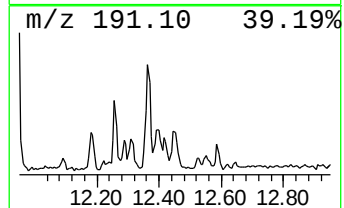
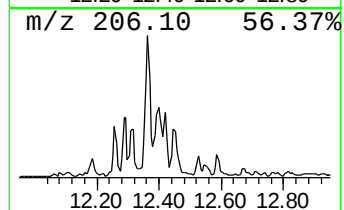
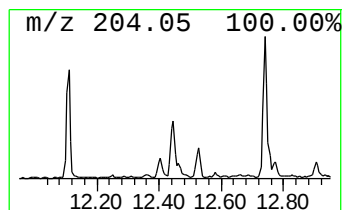
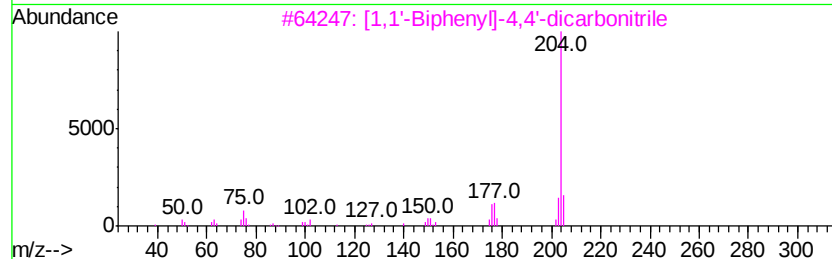
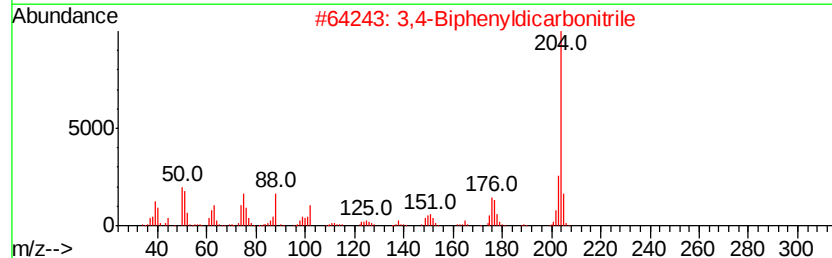
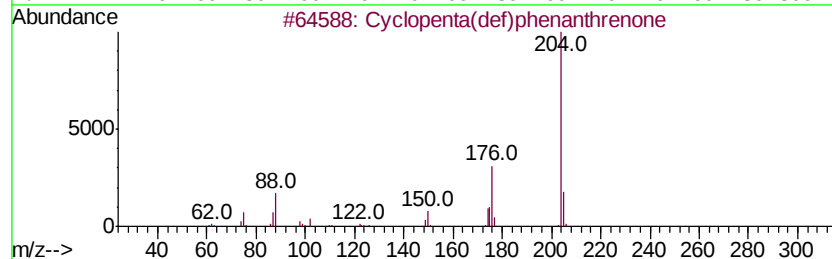
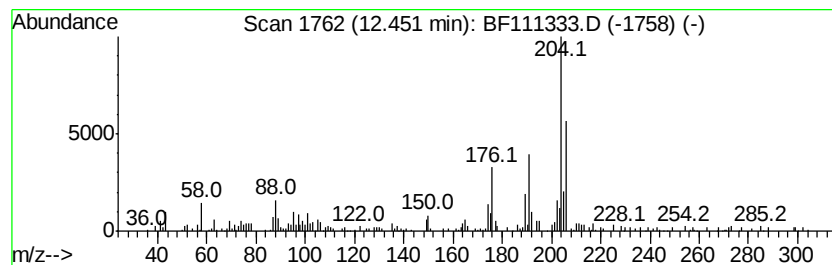
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Cyclopenta(def)phenanthrenone Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.45	3.17 ng	258589	Phenanthrene-d10	11.31

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2		3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	53
3		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50
4		Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	43
5		[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	42



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111333.D
Acq On : 12 Dec 2018 20:38
Operator : JU/SJ
Sample : J6214-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

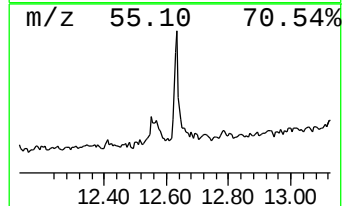
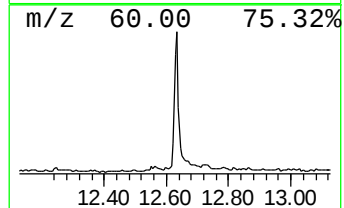
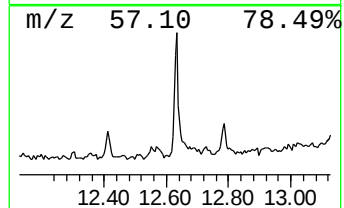
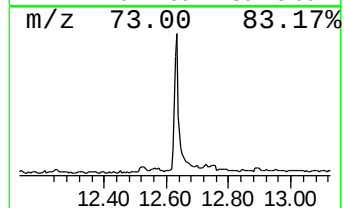
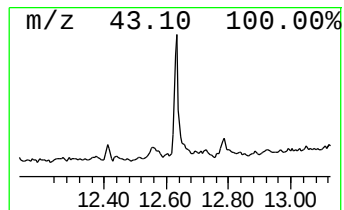
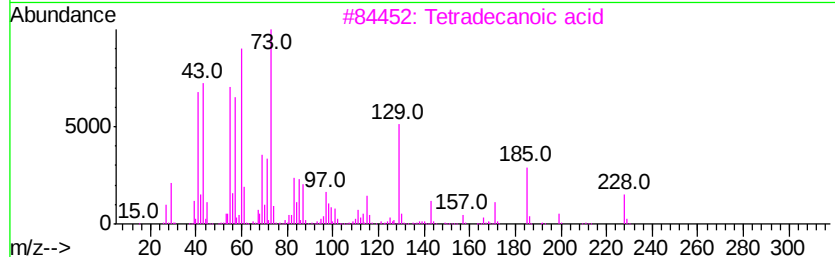
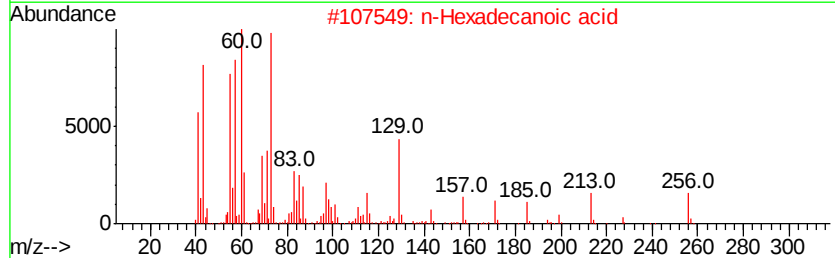
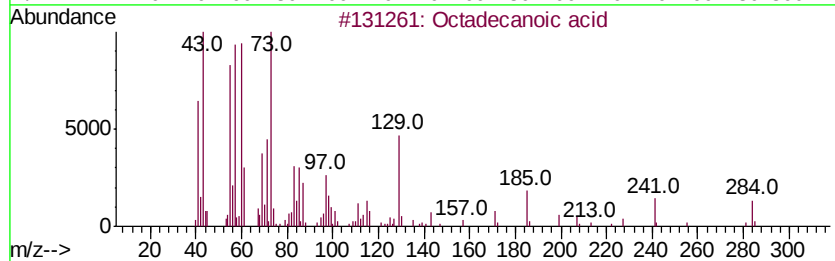
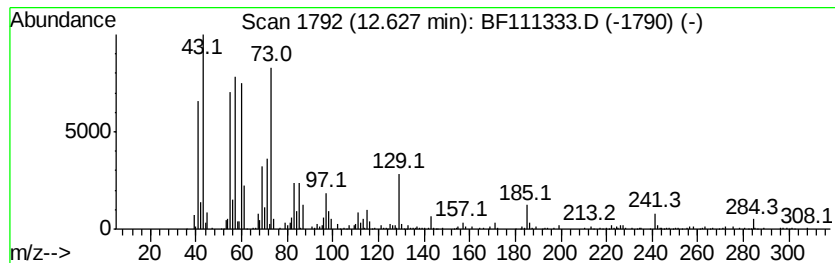
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Octadecanoic acid Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.63	4.01 ng	584079	Chrysene-d12	13.95

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Octadecanoic acid	284	C18H36O2	000057-11-4	99
2			n-Hexadecanoic acid	256	C16H32O2	000057-10-3	93
3			Tetradecanoic acid	228	C14H28O2	000544-63-8	89
4			Pentadecanoic acid	242	C15H30O2	001002-84-2	80
5			Tridecanoic acid	214	C13H26O2	000638-53-9	64



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111333.D
Acq On : 12 Dec 2018 20:38
Operator : JU/SJ
Sample : J6214-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

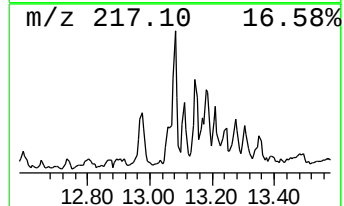
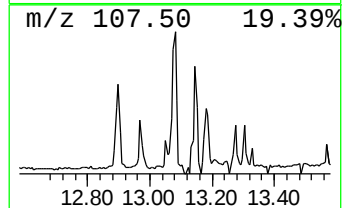
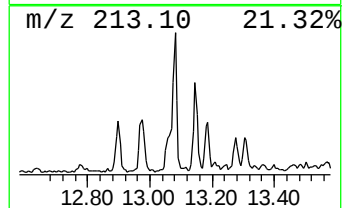
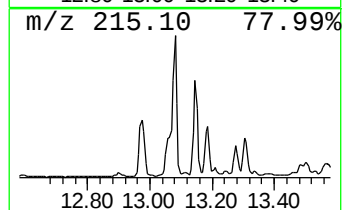
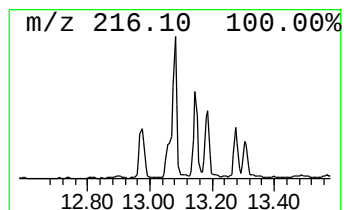
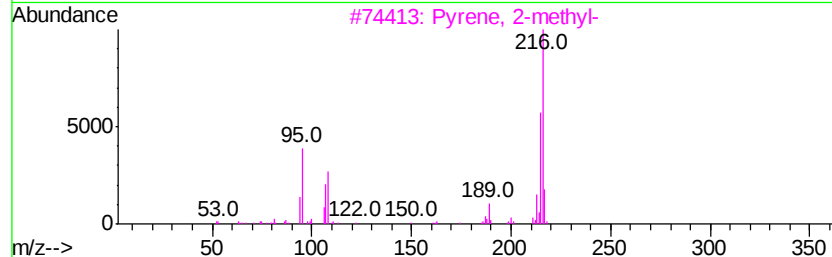
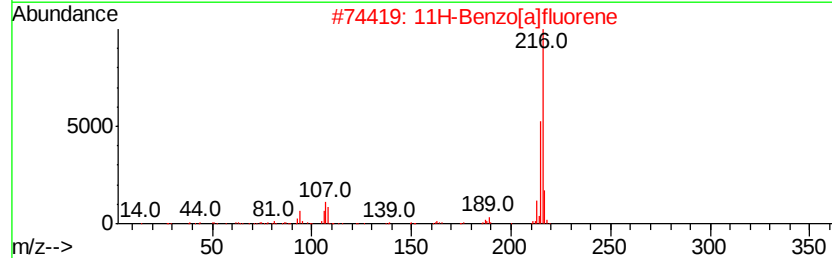
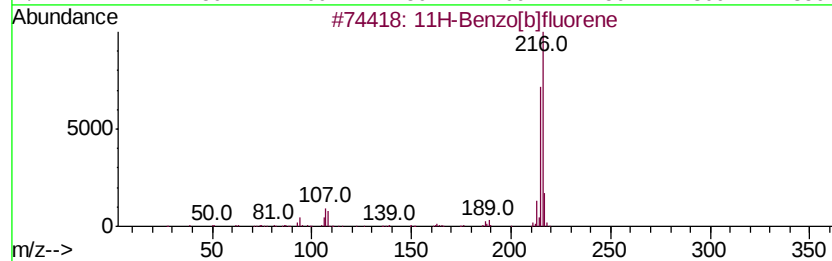
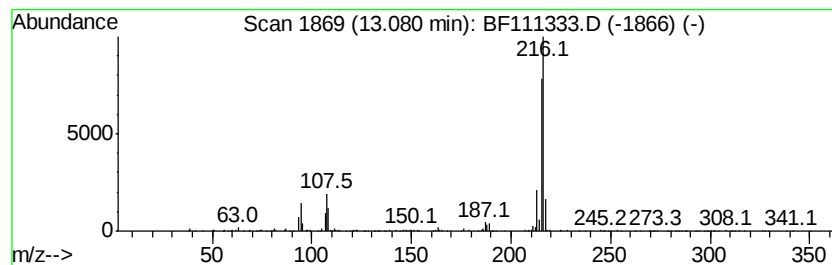
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 11H-Benzo[b]fluorene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.08	3.87 ng	563622	Chrysene-d12	13.95

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
2			11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
3			Pvrene, 2-methyl-	216	C17H12	003442-78-2	87
4			Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81
5			Pyrene, 1-methyl-	216	C17H12	002381-21-7	80



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111333.D
Acq On : 12 Dec 2018 20:38
Operator : JU/SJ
Sample : J6214-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

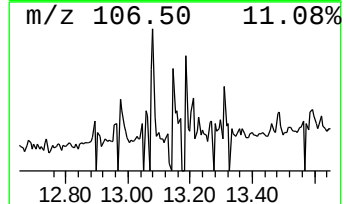
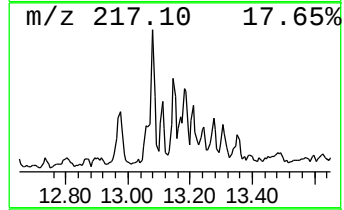
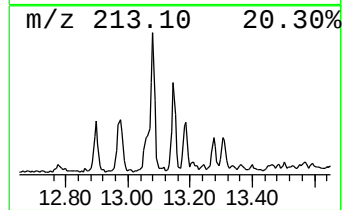
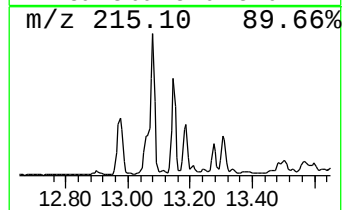
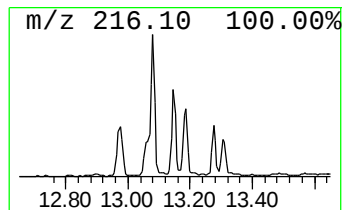
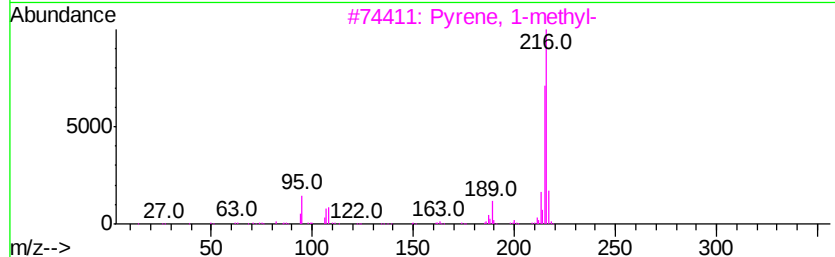
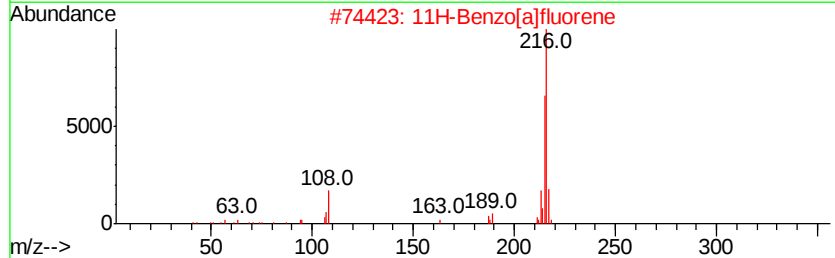
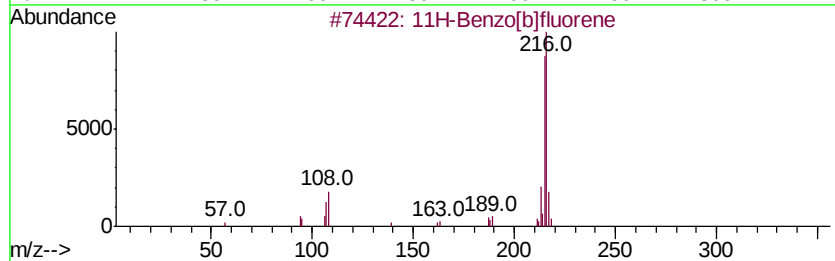
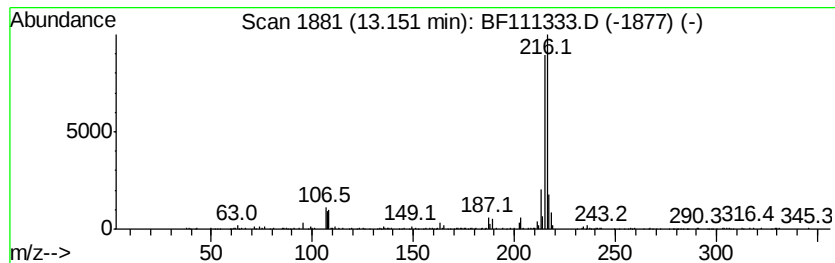
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 11H-Benzo[a]fluorene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.15	2.93 ng	426090	Chrysene-d12	13.95

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
2		11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
3		Pvrene, 1-methyl-	216	C17H12	002381-21-7	87
4		7H-Benzo[c]fluorene	216	C17H12	000205-12-9	74
5		Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	72



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111333.D
Acq On : 12 Dec 2018 20:38
Operator : JU/SJ
Sample : J6214-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

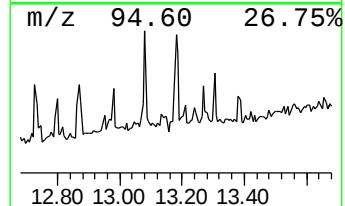
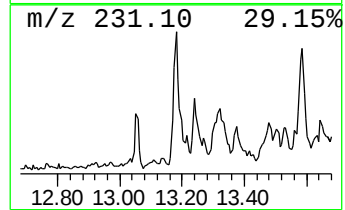
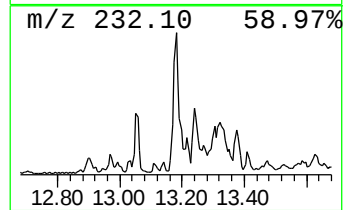
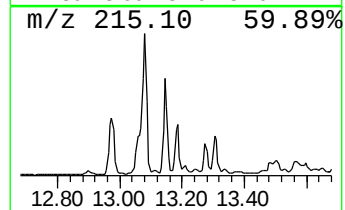
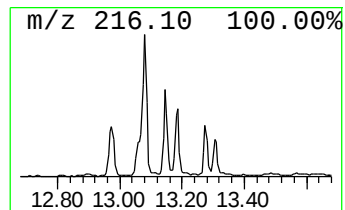
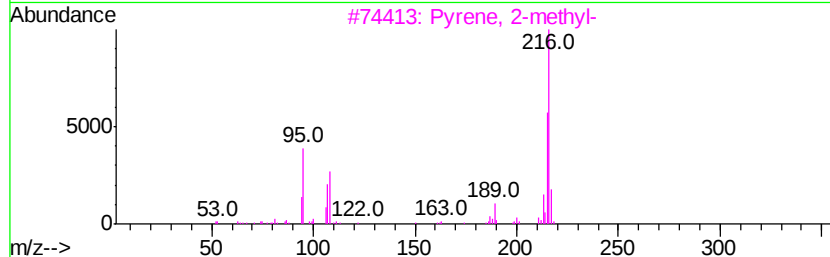
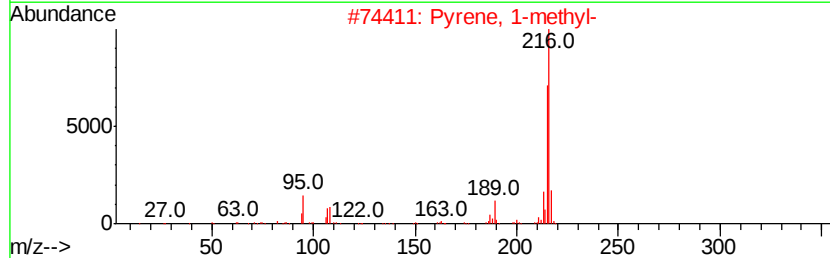
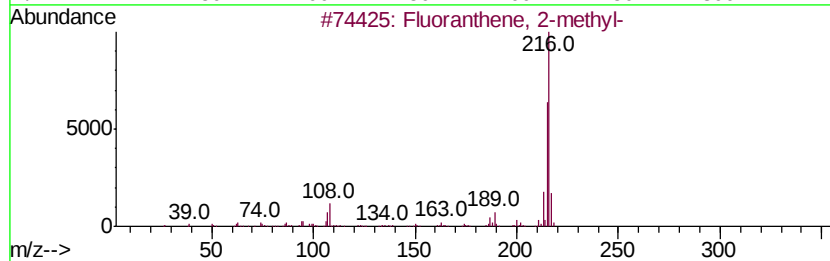
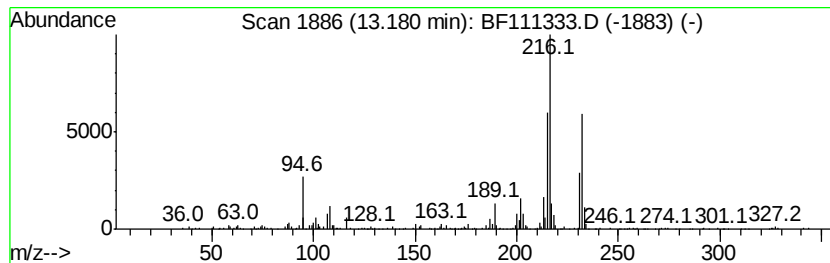
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Fluoranthene, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.18	2.87 ng	417776	Chrysene-d12	13.95

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
2		Pyrene, 1-methyl-	216	C17H12	002381-21-7	78
3		Pyrene, 2-methyl-	216	C17H12	003442-78-2	60
4		11H-Benzo[b]fluorene	216	C17H12	000243-17-4	55
5		11H-Benzo[a]fluorene	216	C17H12	000238-84-6	53



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111333.D
Acq On : 12 Dec 2018 20:38
Operator : JU/SJ
Sample : J6214-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

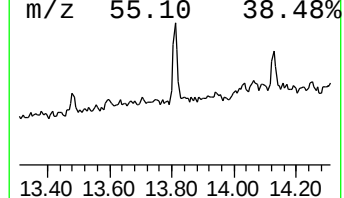
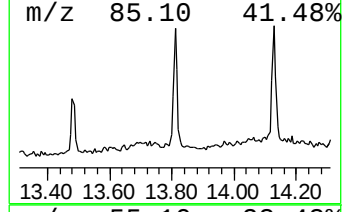
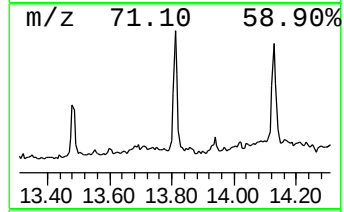
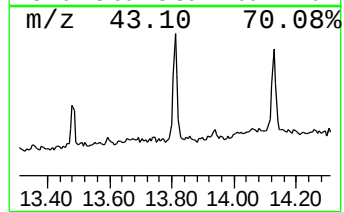
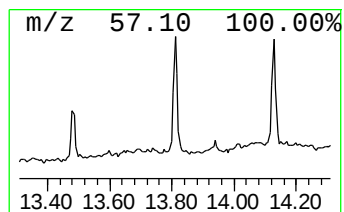
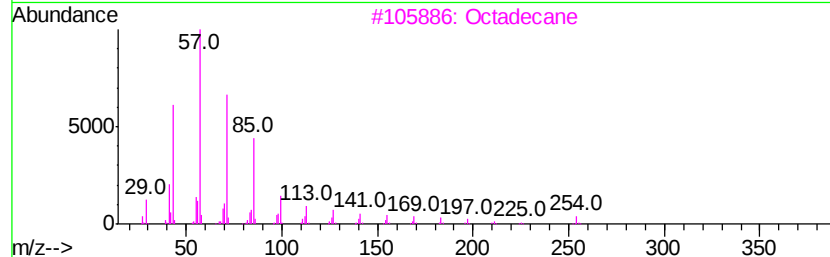
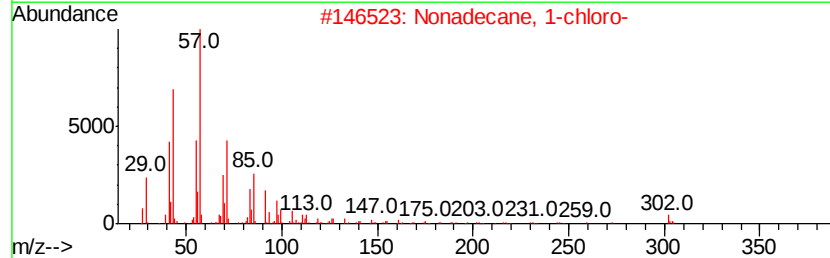
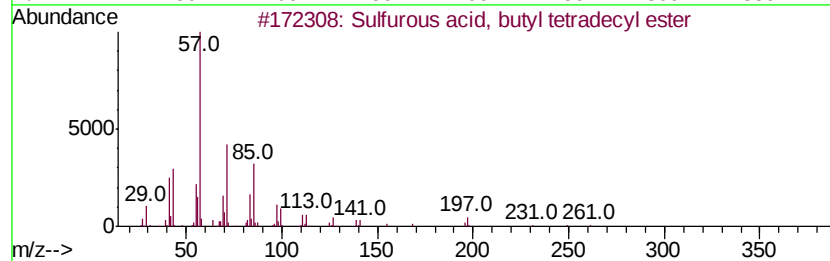
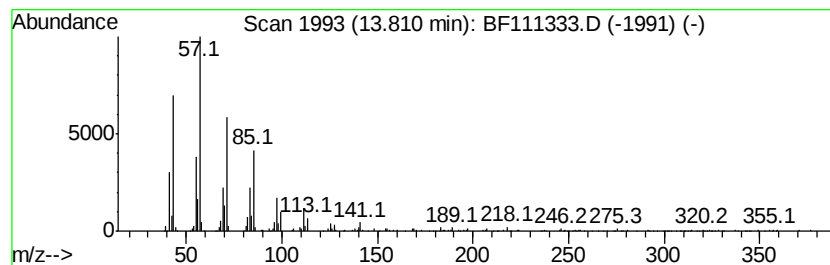
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Sulfurous acid, butyl tetra... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.81	3.25 ng	472750	Chrysene-d12	13.95

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Sulfurous acid, butyl tetradecyl...	334	C18H38O3S	1000309-18-1	91
2			Nonadecane, 1-chloro-	302	C19H39Cl	062016-76-6	91
3			Octadecane	254	C18H38	000593-45-3	90
4			Sulfurous acid, 2-propyl tridecyl...	306	C16H34O3S	1000309-12-4	90
5			Sulfurous acid, butyl pentadecyl...	348	C19H40O3S	1000309-18-2	90



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111333.D
Acq On : 12 Dec 2018 20:38
Operator : JU/SJ
Sample : J6214-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

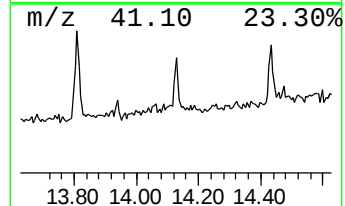
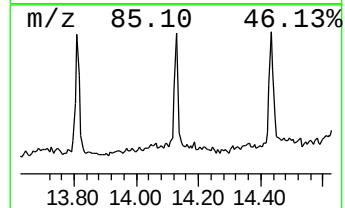
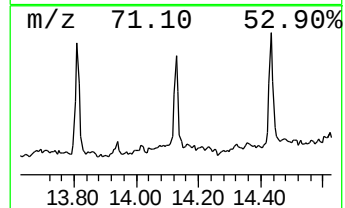
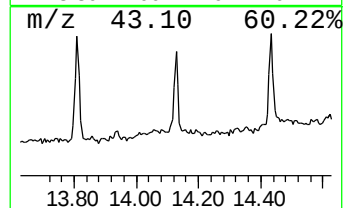
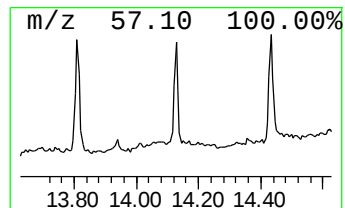
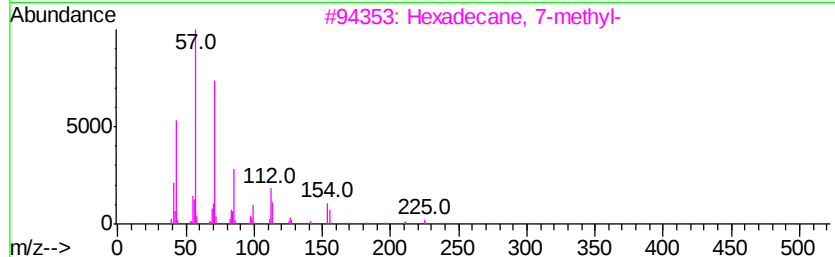
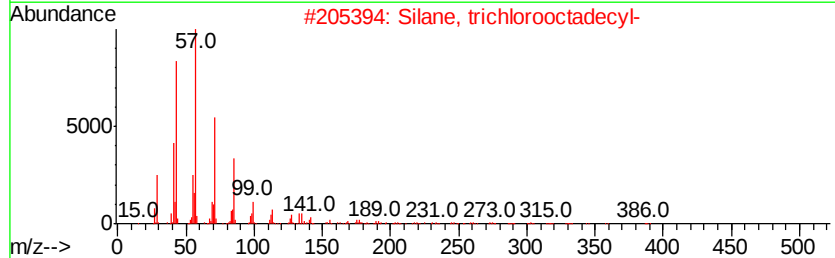
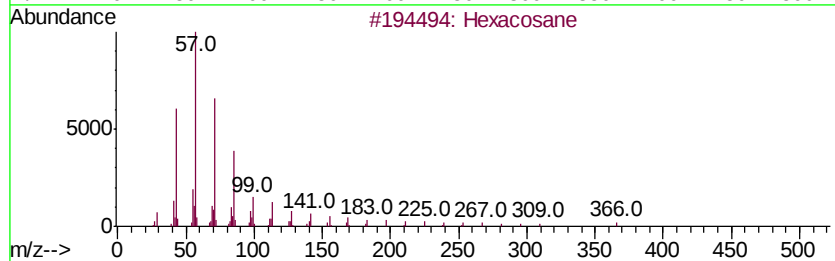
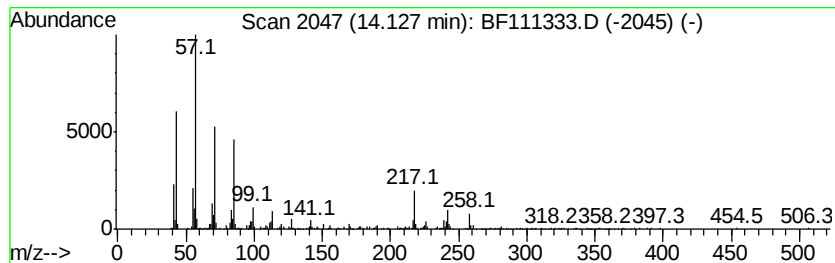
Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Hexacosane Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.13	2.92 ng	425605	Chrysene-d12	13.95
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Hexacosane		366 C26H54	000630-01-3 91
2	Silane, trichlorooctadecyl-		386 C18H37Cl3Si	000112-04-9 78
3	Hexadecane, 7-methyl-		240 C17H36	026730-20-1 78
4	Hexatriacontane		507 C36H74	000630-06-8 76
5	Hexadecane		226 C16H34	000544-76-3 70



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111333.D
Acq On : 12 Dec 2018 20:38
Operator : JU/SJ
Sample : J6214-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

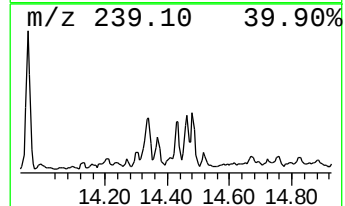
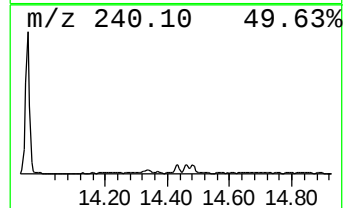
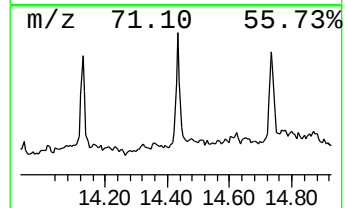
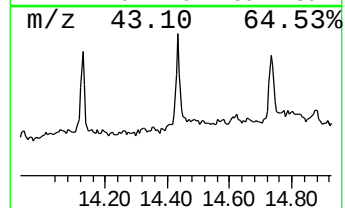
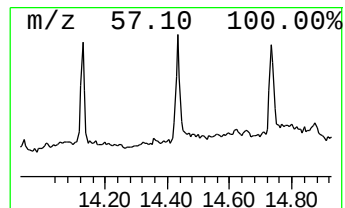
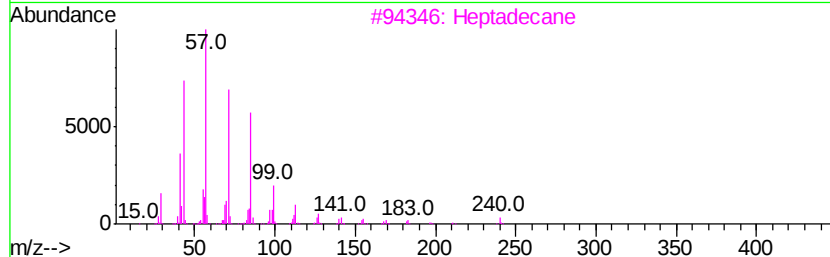
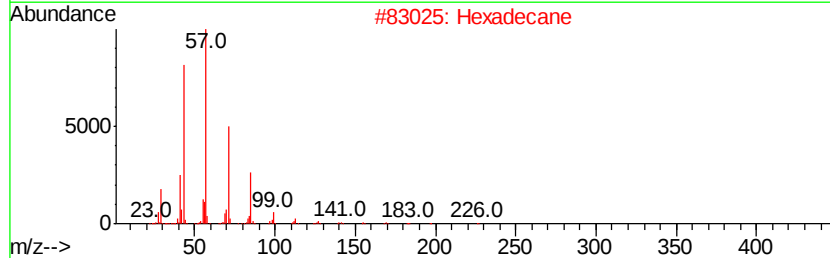
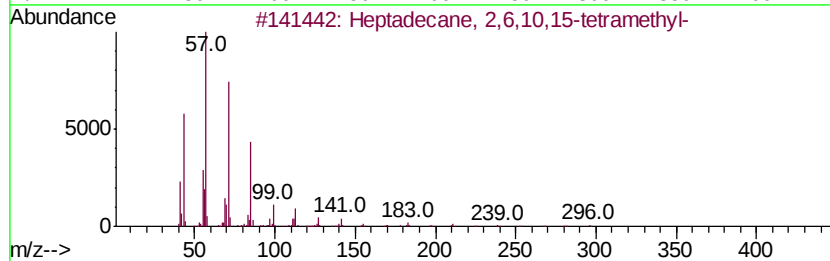
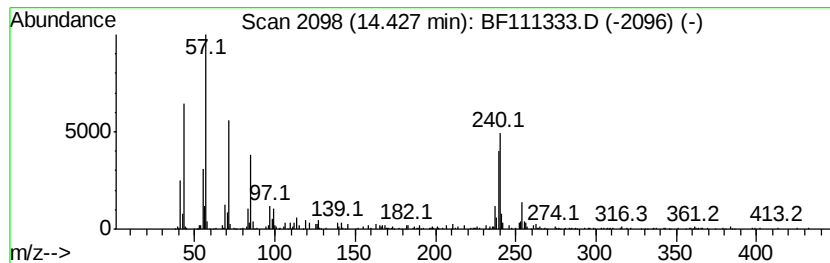
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Heptadecane, 2,6,10,15-tetr... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.43	3.11 ng	452609	Chrysene-d12	13.95

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	94
2			Hexadecane	226	C16H34	000544-76-3	93
3			Heptadecane	240	C17H36	000629-78-7	81
4			Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	70
5			Octacosane	394	C28H58	000630-02-4	70



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111333.D
Acq On : 12 Dec 2018 20:38
Operator : JU/SJ
Sample : J6214-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

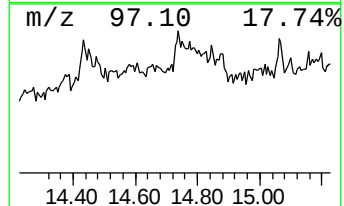
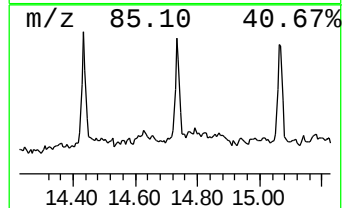
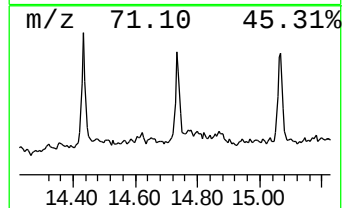
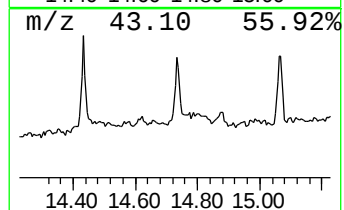
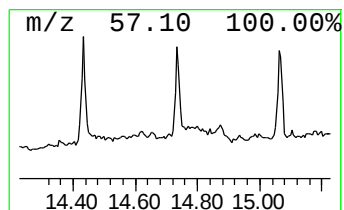
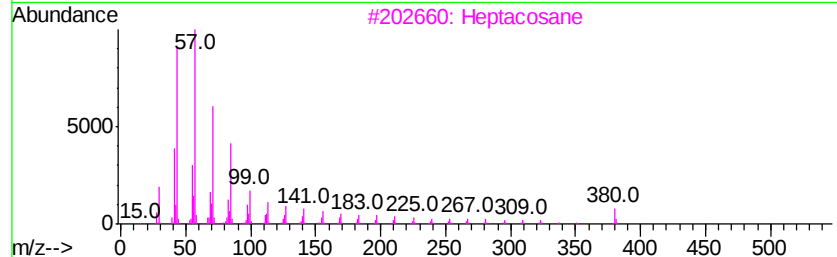
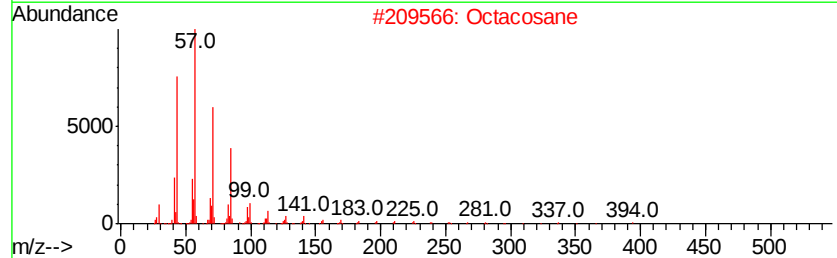
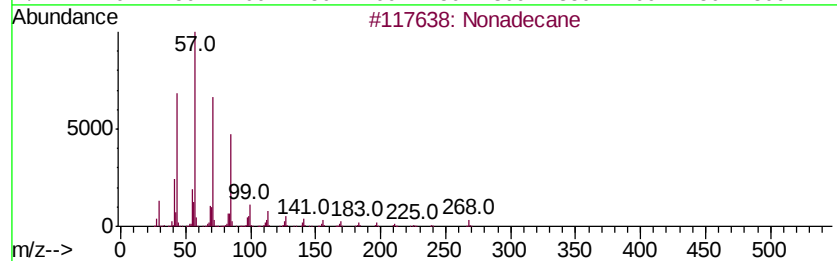
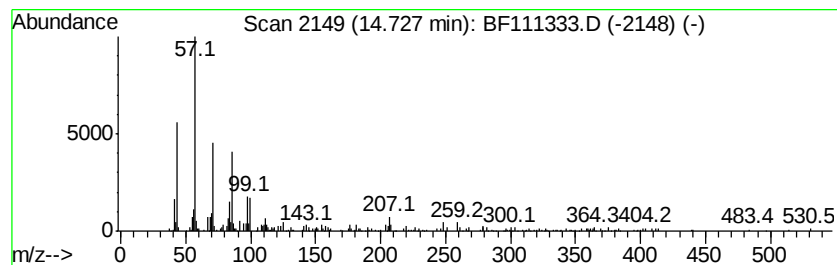
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Nonadecane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.73	7.65 ng	297187	Perylene-d12	15.39

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Nonadecane	268	C19H40	000629-92-5	94
2		Octacosane	394	C28H58	000630-02-4	93
3		Heptacosane	380	C27H56	000593-49-7	87
4		2-methyloctacosane	408	C29H60	1000376-72-8	86
5		Heptadecane	240	C17H36	000629-78-7	80



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121218\
Data File : BF111333.D
Acq On : 12 Dec 2018 20:38
Operator : JU/SJ
Sample : J6214-09
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-4(0-2)

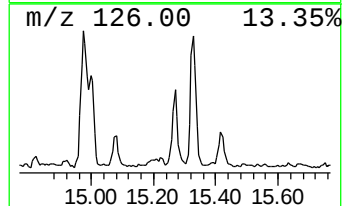
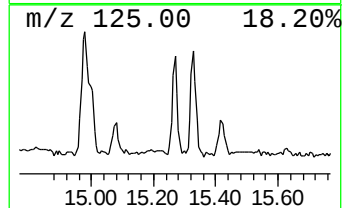
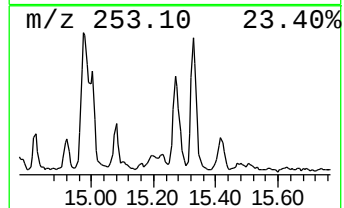
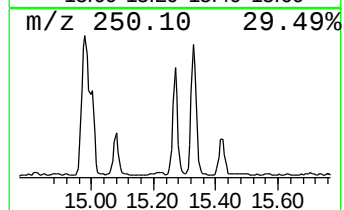
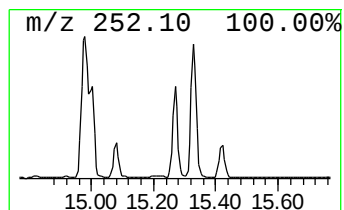
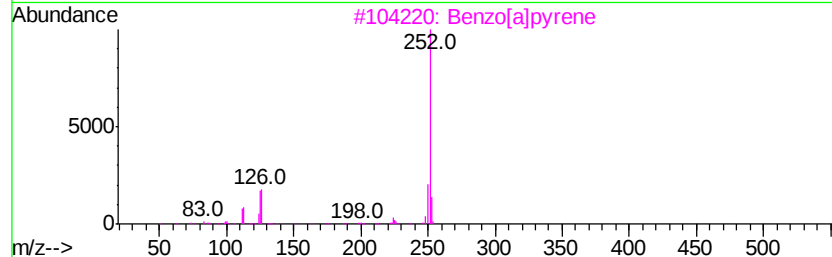
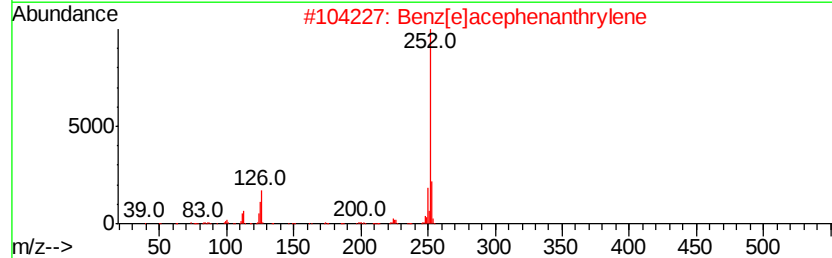
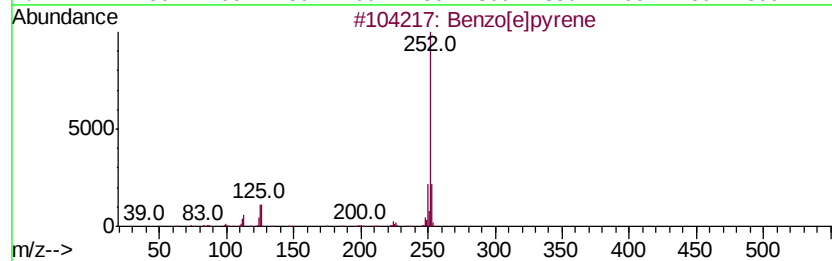
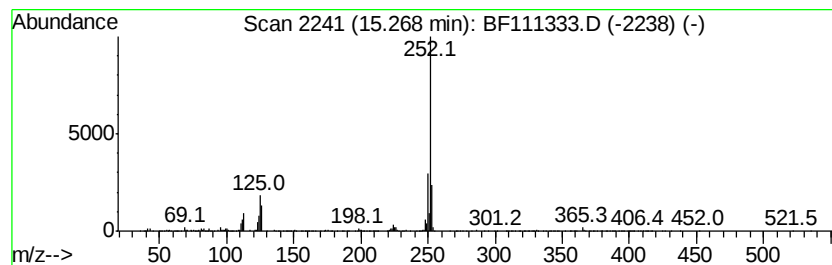
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Benzo[e]pyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.27	19.90 ng	772795	Perylene-d12	15.39

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2		Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96
3		Benzo[a]pyrene	252	C20H12	000050-32-8	96
4		Perylene	252	C20H12	000198-55-0	90
5		Benzo[k]fluoranthene	252	C20H12	000207-08-9	89



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF121218\
 Data File : BF111333.D
 Acq On : 12 Dec 2018 20:38
 Operator : JU/SJ
 Sample : J6214-09
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-4(0-2)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF121218.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...	5.00	4.4	ng	402461	1	6.79	1817320	20.0
unknown6.56	6.56	67.9	ng	6171410	1	6.79	1817320	20.0
Phenanthrene, 2-m...	11.81	6.7	ng	542572	4	11.31	1631860	20.0
n-Hexadecanoic acid	11.85	20.1	ng	1643040	4	11.31	1631860	20.0
Phenanthrene, 1-m...	11.89	4.3	ng	355030	4	11.31	1631860	20.0
4H-Cyclopenta[def...	11.92	10.0	ng	816386	4	11.31	1631860	20.0
Naphthalene, 1-ph...	12.11	3.2	ng	257859	4	11.31	1631860	20.0
Phenanthrene, 3,6...	12.36	3.3	ng	269790	4	11.31	1631860	20.0
unknown12.40	12.40	3.4	ng	275498	4	11.31	1631860	20.0
Cyclopenta(def)ph...	12.45	3.2	ng	258589	4	11.31	1631860	20.0
Octadecanoic acid	12.63	4.0	ng	584079	5	13.95	2912080	20.0
11H-Benzo[b]fluorene	13.08	3.9	ng	563622	5	13.95	2912080	20.0
11H-Benzo[a]fluorene	13.15	2.9	ng	426090	5	13.95	2912080	20.0
Fluoranthene, 2-m...	13.18	2.9	ng	417776	5	13.95	2912080	20.0
Sulfurous acid, b...	13.81	3.3	ng	472750	5	13.95	2912080	20.0
Hexacosane	14.13	2.9	ng	425605	5	13.95	2912080	20.0
Heptadecane, 2,6,...	14.43	3.1	ng	452609	5	13.95	2912080	20.0
Nonadecane	14.73	7.7	ng	297187	6	15.39	776704	20.0
Benzo[e]pyrene	15.27	19.9	ng	772795	6	15.39	776704	20.0