

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121117\
 Data File : BF101297.D
 Acq On : 11 Dec 2017 18:43
 Operator : SJ/JU
 Sample : I6813-01
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 Soil-Cuttings

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:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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	5.057	501	505	516	rBV	76153	113583	8.71%	0.503%
2	5.457	569	573	590	rVB	1103727	1037822	79.56%	4.598%
3	5.669	606	609	614	rBV	40678	41862	3.21%	0.185%
4	6.475	741	746	759	rBV	1100770	1095294	83.96%	4.853%
5	6.604	764	768	771	rBV	1261442	1102637	84.53%	4.885%
6	6.834	803	807	814	rBV	272875	248429	19.04%	1.101%
7	6.987	829	833	837	rBV	1006841	853389	65.42%	3.781%
8	7.398	899	903	906	rBV	726292	629835	48.28%	2.790%
9	8.116	1021	1025	1027	rBV	372502	323591	24.81%	1.434%
10	8.133	1027	1028	1032	rVB	69952	45921	3.52%	0.203%
11	8.757	1128	1134	1138	rVV	29787	47458	3.64%	0.210%
12	8.828	1142	1146	1149	rBV	64147	51849	3.97%	0.230%
13	8.928	1160	1163	1169	rVB	60415	48053	3.68%	0.213%
14	9.186	1203	1207	1211	rBV	1276158	1173471	89.96%	5.199%
15	9.257	1216	1219	1222	rVV	50610	44856	3.44%	0.199%
16	9.457	1247	1253	1256	rBV	25151	34569	2.65%	0.153%
17	9.528	1261	1265	1268	rBV	48880	50673	3.88%	0.224%
18	9.592	1271	1276	1281	rVB2	121846	213868	16.39%	0.948%
19	9.733	1296	1300	1305	rBV	467900	386167	29.60%	1.711%
20	9.792	1305	1310	1314	rVB2	65707	73560	5.64%	0.326%
21	9.869	1320	1323	1327	rVB	346588	321867	24.67%	1.426%
22	10.027	1345	1350	1352	rBV3	23043	37333	2.86%	0.165%
23	10.110	1361	1364	1368	rBV2	42071	36711	2.81%	0.163%
24	10.180	1373	1376	1379	rBV2	59095	63490	4.87%	0.281%
25	10.292	1388	1395	1398	rBV4	97701	121815	9.34%	0.540%
26	10.327	1398	1401	1403	rBV	79803	64592	4.95%	0.286%
27	10.392	1410	1412	1414	rBV	45589	34638	2.66%	0.153%
28	10.422	1414	1417	1423	rVB	65690	93470	7.17%	0.414%
29	10.510	1429	1432	1434	rVV	49460	51611	3.96%	0.229%
30	10.527	1434	1435	1439	rVV3	34819	34167	2.62%	0.151%
31	10.669	1455	1459	1462	rVV	594570	535466	41.05%	2.372%
32	10.763	1472	1475	1476	rBV	100008	84732	6.50%	0.375%
33	10.969	1506	1510	1513	rBV4	36316	60539	4.64%	0.268%
34	11.174	1542	1545	1549	rVB	36974	39779	3.05%	0.176%

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35	11.210	1549	1551	1554	rBV	75986	59934	4.59%	0.266%
36	11.239	1554	1556	1558	rBV	48298	38389	2.94%	0.170%
37	11.363	1573	1577	1579	rBV	330927	302633	23.20%	1.341%
38	11.392	1579	1582	1587	rVV	591885	530547	40.67%	2.351%
39	11.439	1587	1590	1593	rVV	216272	186395	14.29%	0.826%
40	11.474	1594	1596	1601	rVB3	26500	33291	2.55%	0.147%
41	11.657	1621	1627	1630	rVB2	114380	164224	12.59%	0.728%
42	11.698	1631	1634	1637	rVB2	36364	36929	2.83%	0.164%
43	11.869	1660	1663	1665	rVV	146130	144678	11.09%	0.641%
44	11.898	1665	1668	1671	rVB	177380	156813	12.02%	0.695%
45	11.945	1671	1676	1679	rBV	88783	93693	7.18%	0.415%
46	11.980	1679	1682	1684	rVV2	262314	282465	21.65%	1.251%
47	12.004	1684	1686	1690	rVB	122247	107055	8.21%	0.474%
48	12.045	1690	1693	1696	rBV	63442	56198	4.31%	0.249%
49	12.104	1700	1703	1706	rBV4	30237	42013	3.22%	0.186%
50	12.163	1709	1713	1716	rVV	193720	203974	15.64%	0.904%
51	12.198	1716	1719	1724	rVB2	101682	95351	7.31%	0.422%
52	12.310	1737	1738	1742	rVV4	43214	46937	3.60%	0.208%
53	12.345	1742	1744	1746	rVV	49584	36517	2.80%	0.162%
54	12.416	1753	1756	1759	rBV	154604	159369	12.22%	0.706%
55	12.457	1760	1763	1765	rVV	80390	90447	6.93%	0.401%
56	12.474	1765	1766	1769	rVB	68802	44727	3.43%	0.198%
57	12.516	1769	1773	1776	rBV3	113382	147013	11.27%	0.651%
58	12.586	1781	1785	1788	rBV	737946	628834	48.21%	2.786%
59	12.621	1788	1791	1793	rVV2	53403	45637	3.50%	0.202%
60	12.680	1798	1801	1804	rVV	202045	162839	12.48%	0.721%
61	12.757	1812	1814	1817	rVB	82746	70367	5.39%	0.312%
62	12.821	1819	1825	1828	rBV	1304855	1304498	100.00%	5.779%
63	12.868	1829	1833	1836	rVB	66109	72545	5.56%	0.321%
64	12.951	1843	1847	1850	rBV	847669	734882	56.33%	3.256%
65	13.027	1857	1860	1866	rBV2	112115	183370	14.06%	0.812%
66	13.145	1872	1880	1882	rBV	181231	351288	26.93%	1.556%
67	13.210	1888	1891	1894	rVV	111099	113069	8.67%	0.501%
68	13.251	1894	1898	1902	rVV	210194	222519	17.06%	0.986%
69	13.316	1905	1909	1911	rVV	84957	100129	7.68%	0.444%
70	13.345	1911	1914	1916	rVV	215891	212614	16.30%	0.942%
71	13.374	1916	1919	1922	rVV	230196	211902	16.24%	0.939%

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72	13.421	1924	1927	1929	rVV	209505	183145	14.04%	0.811%
73	13.657	1964	1967	1970	rVB	103159	99656	7.64%	0.442%
74	13.715	1974	1977	1979	rBV	45431	39414	3.02%	0.175%
75	13.745	1979	1982	1983	rBV2	54793	50827	3.90%	0.225%
76	13.763	1983	1985	1988	rVV	87729	110178	8.45%	0.488%
77	13.792	1988	1990	1992	rVB	142251	106014	8.13%	0.470%
78	13.821	1992	1995	2001	rBV	120752	196847	15.09%	0.872%
79	13.868	2001	2003	2006	rVB	87182	69020	5.29%	0.306%
80	14.015	2023	2028	2031	rBV2	635166	931849	71.43%	4.128%
81	14.045	2031	2033	2036	rVV	554050	466626	35.77%	2.067%
82	14.168	2051	2054	2057	rBV	144178	129482	9.93%	0.574%
83	14.368	2085	2088	2090	rVV2	58193	66910	5.13%	0.296%
84	14.404	2092	2094	2097	rVV	193706	182207	13.97%	0.807%
85	14.439	2097	2100	2103	rVV	93255	108248	8.30%	0.480%
86	14.480	2104	2107	2109	rVV2	87023	120666	9.25%	0.535%
87	14.527	2113	2115	2117	rVV	117097	122260	9.37%	0.542%
88	14.551	2117	2119	2122	rVV3	128795	125981	9.66%	0.558%
89	14.598	2125	2127	2131	rVB	98399	90574	6.94%	0.401%
90	14.857	2169	2171	2175	rVB2	56467	62926	4.82%	0.279%
91	14.898	2176	2178	2182	rVB3	60374	72833	5.58%	0.323%
92	15.074	2203	2208	2215	rVB2	339946	653984	50.13%	2.897%
93	15.174	2222	2225	2229	rVB	119383	128438	9.85%	0.569%
94	15.374	2255	2259	2265	rVB	316749	379473	29.09%	1.681%
95	15.445	2266	2271	2274	rVV2	394390	532883	40.85%	2.361%
96	15.498	2277	2280	2283	rVV2	151688	185115	14.19%	0.820%
97	15.533	2283	2286	2292	rVB3	63287	97457	7.47%	0.432%
98	16.068	2374	2377	2381	rVB	39149	54448	4.17%	0.241%
99	16.992	2528	2534	2540	rVB	136264	261175	20.02%	1.157%
100	17.451	2606	2612	2620	rVB	143691	271814	20.84%	1.204%

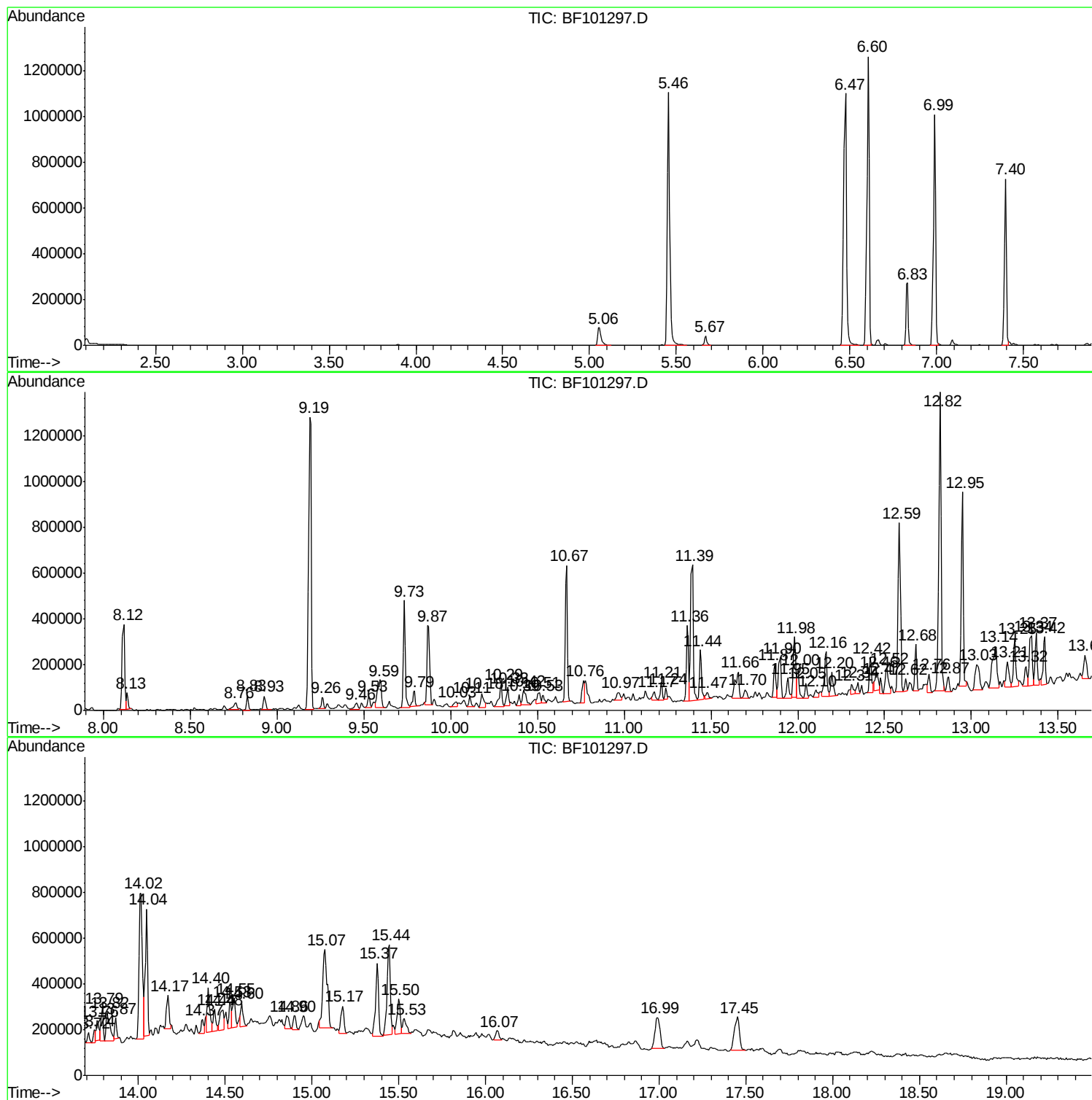
Sum of corrected areas: 22571632

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Instrument :
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Soil-Cuttings

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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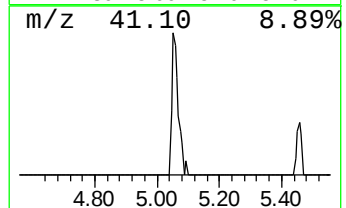
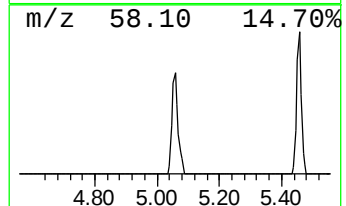
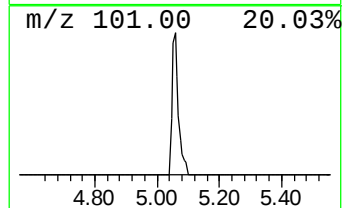
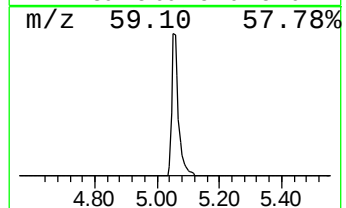
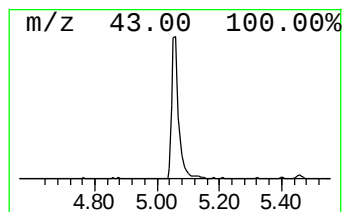
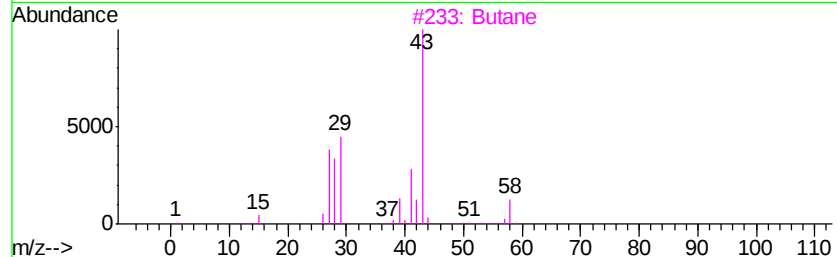
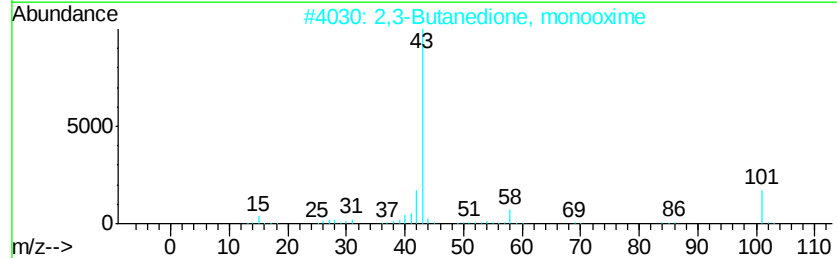
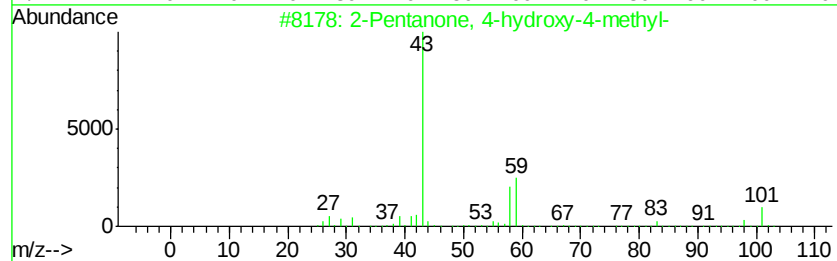
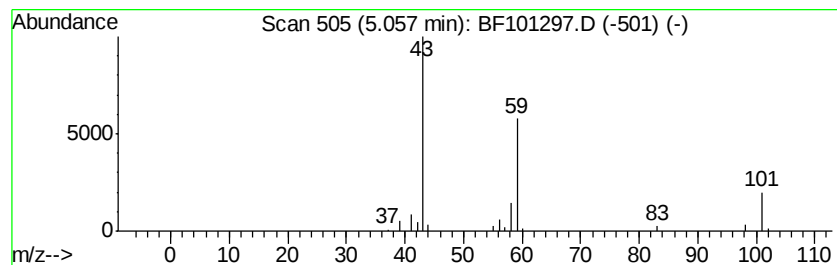
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.06	9.14 ng	113583	1,4-Dichlorobenzene-d4	6.83

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	45
2		2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	35
3		Butane	58	C4H10	000106-97-8	9
4		(+)-4-Amino-4,5-dihydro-2(3H)-f...	101	C4H7NO2	016504-58-8	9
5		Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9



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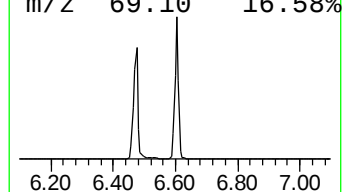
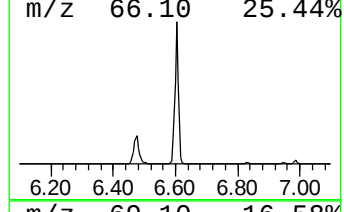
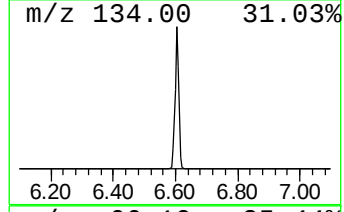
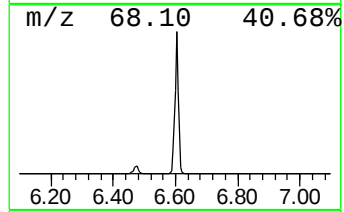
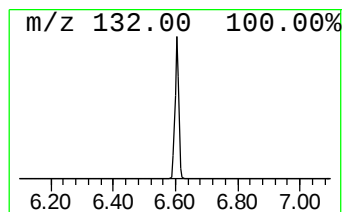
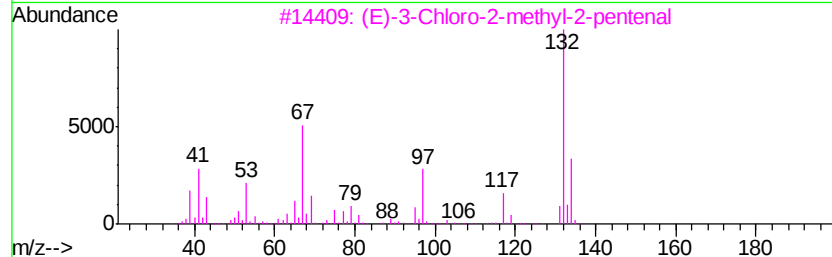
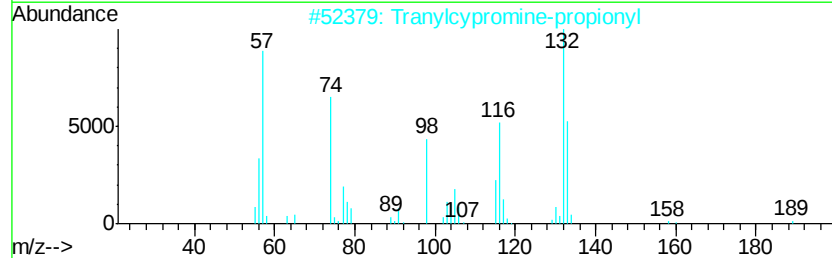
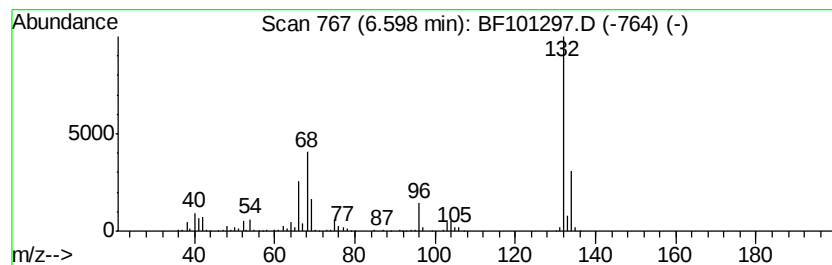
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 unknown6.60 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.60	88.77 ng	1102640	1,4-Dichlorobenzene-d4	6.83

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2		Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
3		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	9
4		Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
5		5-Aminoindole	132	C8H8N2	005192-03-0	9



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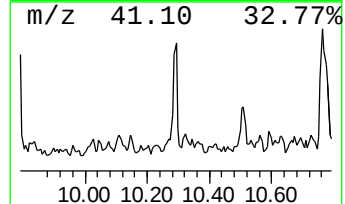
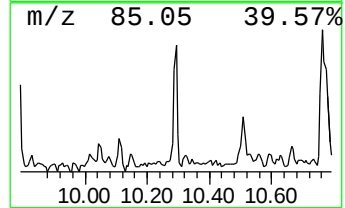
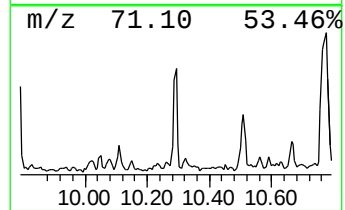
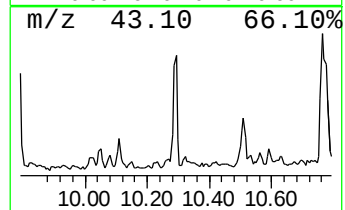
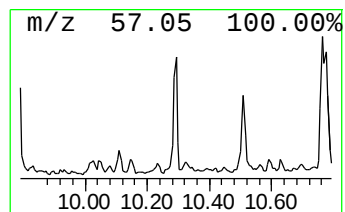
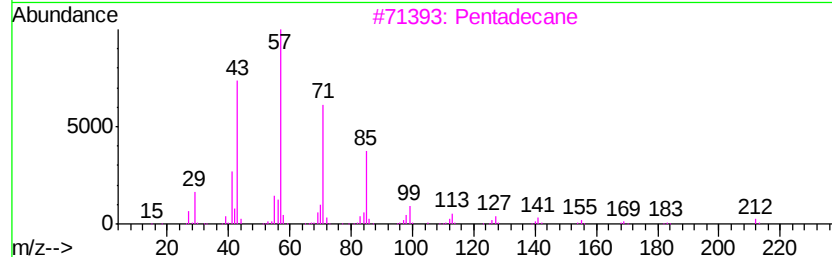
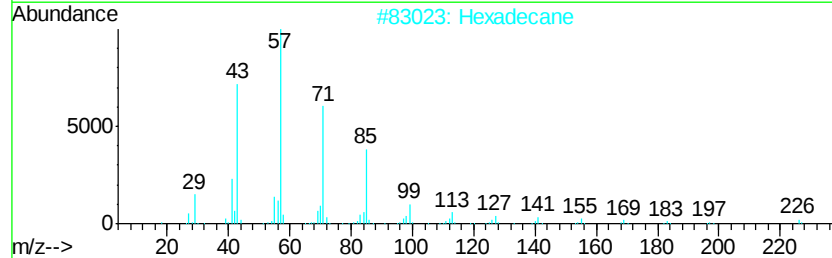
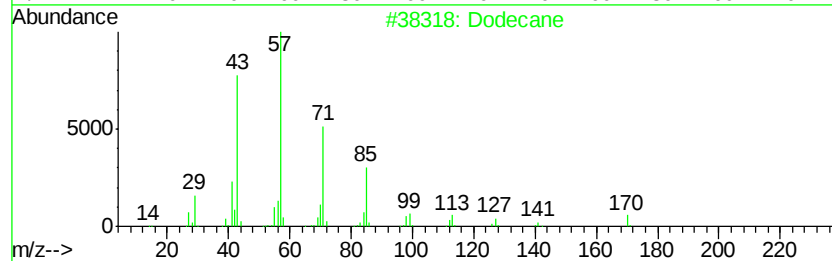
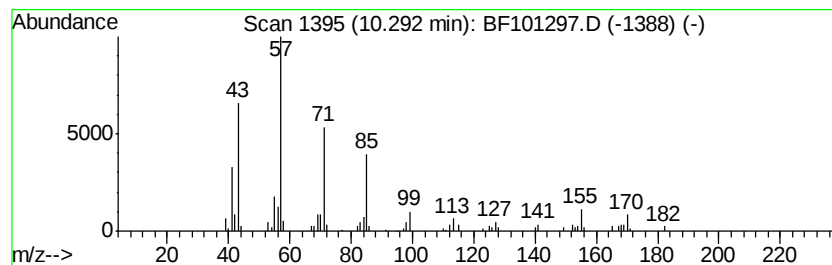
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Peak Number 4 Dodecane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.29	7.57 ng	121815	Acenaphthene-d10	9.87

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dodecane	170	C12H26	000112-40-3	93
2		Hexadecane	226	C16H34	000544-76-3	80
3		Pentadecane	212	C15H32	000629-62-9	80
4		Eicosane, 10-methyl-	296	C21H44	054833-23-7	80
5		Dodecane, 1-iodo-	296	C12H25I	004292-19-7	80



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121117\
Data File : BF101297.D
Acq On : 11 Dec 2017 18:43
Operator : SJ/JU
Sample : I6813-01
Misc :
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Instrument :
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ClientSampleId :
Soil-Cuttings

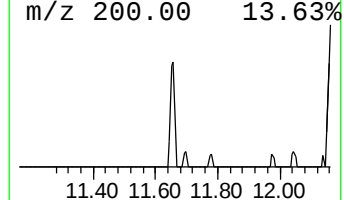
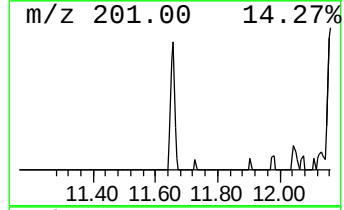
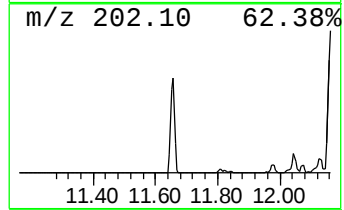
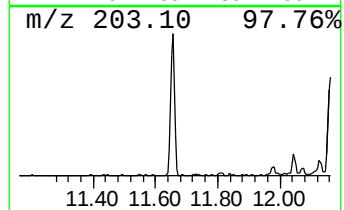
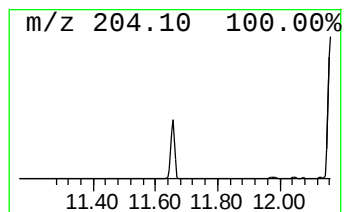
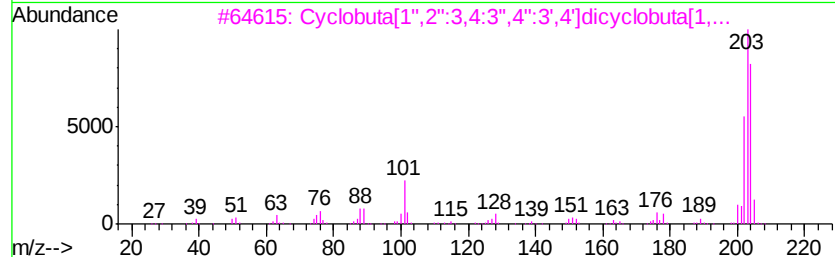
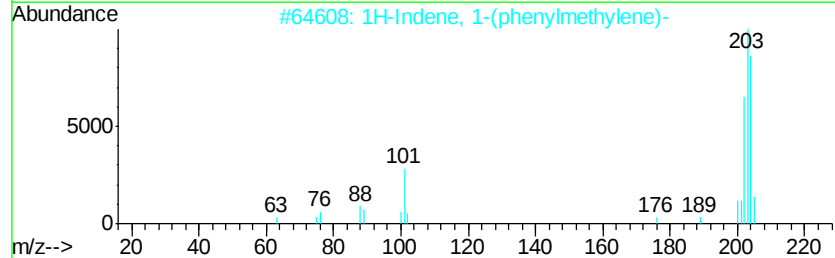
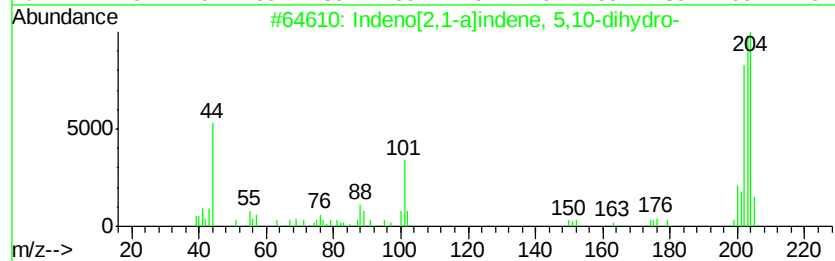
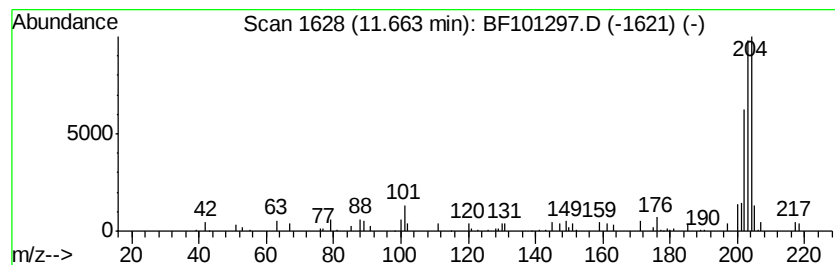
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Indeno[2,1-a]indene, 5,10-d... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.66	10.85 ng	164224	Phenanthrene-d10	11.36

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	90
2		1H-Indene, 1-(phenylmethylene)-	204	C16H12	005394-86-5	81
3		Cyclobuta[1'',2'':3,4:3'',4'':3'...	204	C16H12	006574-36-3	81
4		Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	81
5		Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	81



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121117\
Data File : BF101297.D
Acq On : 11 Dec 2017 18:43
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ClientSampleId :
Soil-Cuttings

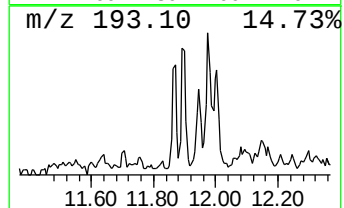
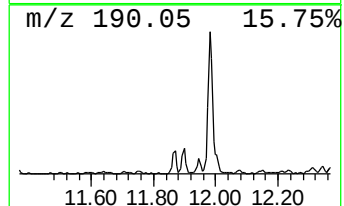
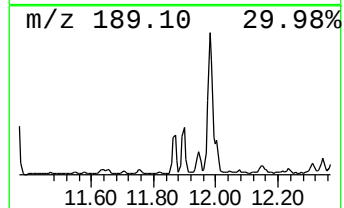
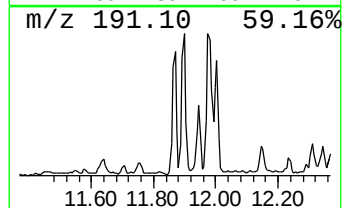
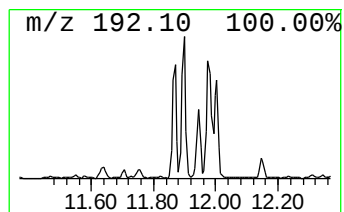
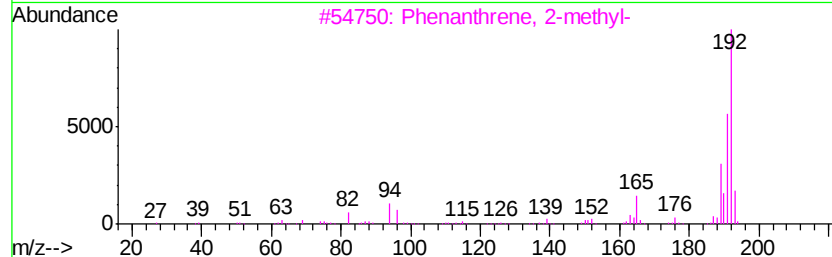
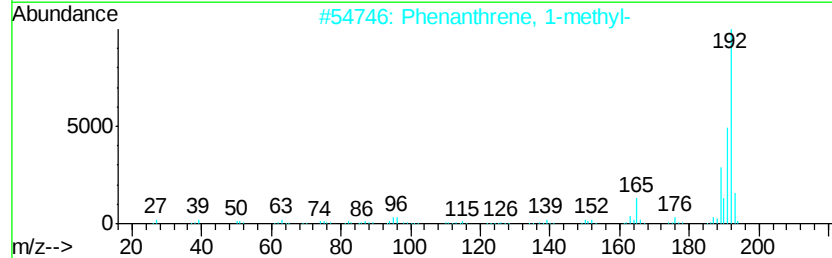
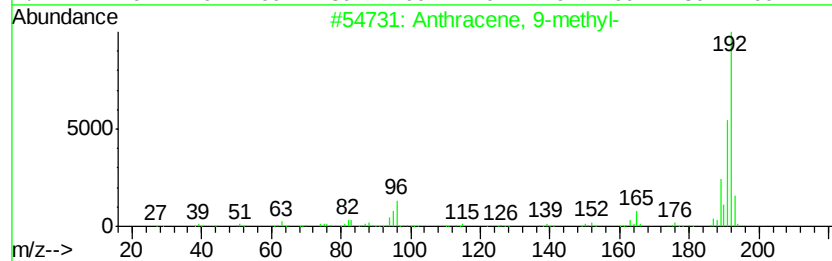
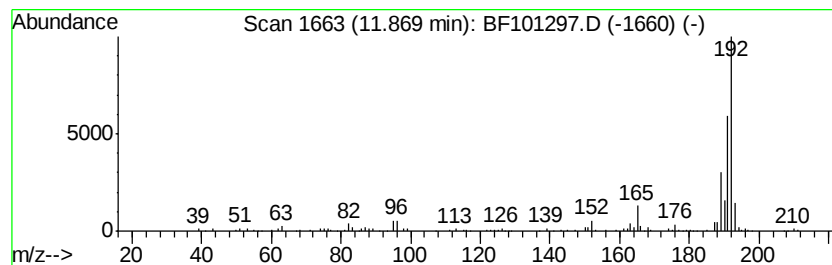
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Anthracene, 9-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	9.56 ng	144678	Phenanthrene-d10	11.36

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
2		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
3		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
4		1H-Cyclopropa[1,1]phenanthrene, 1a,...	192	C15H12	000949-41-7	94
5		Anthracene, 2-methyl-	192	C15H12	000613-12-7	92



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121117\
Data File : BF101297.D
Acq On : 11 Dec 2017 18:43
Operator : SJ/JU
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Instrument :
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ClientSampleId :
Soil-Cuttings

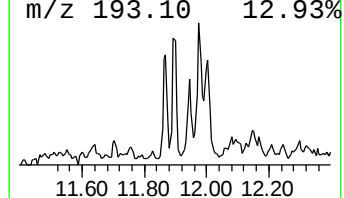
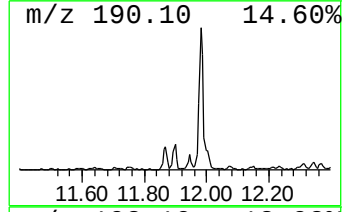
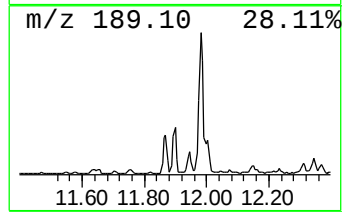
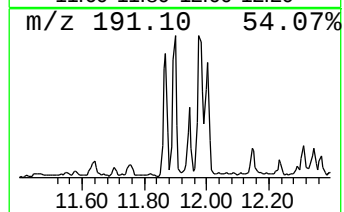
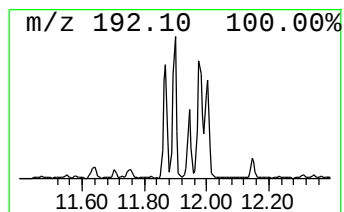
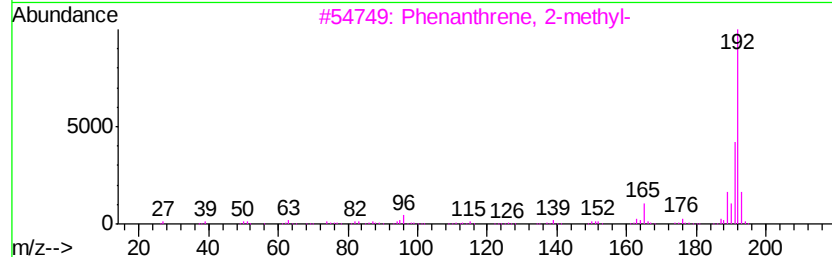
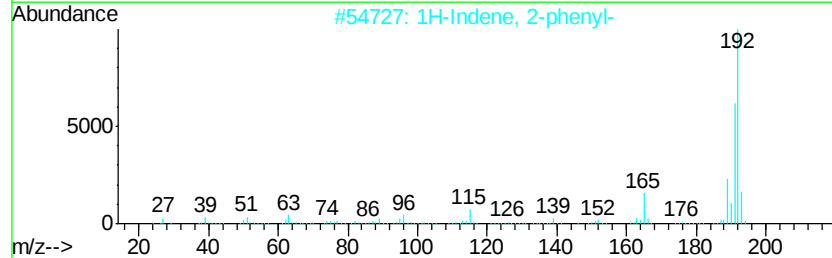
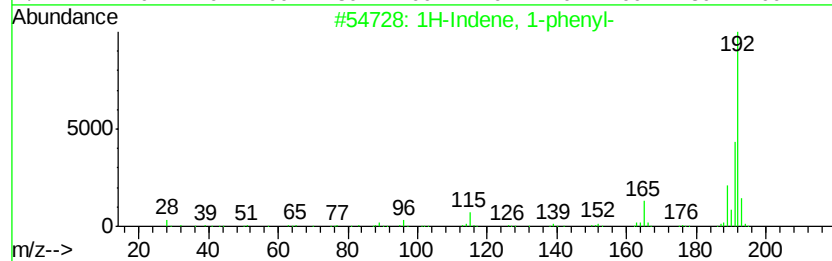
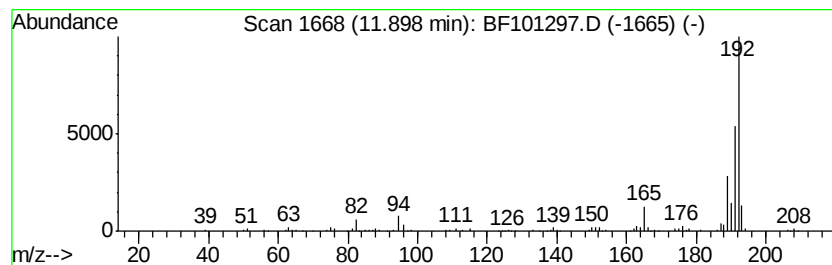
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 1H-Indene, 1-phenyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	10.36 ng	156813	Phenanthrene-d10	11.36

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94
2		1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94
3		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
4		1H-Cyclopropa[1,1]phenanthrene, 1a,...	192	C15H12	000949-41-7	91
5		Anthracene, 9-methyl-	192	C15H12	000779-02-2	91



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121117\
Data File : BF101297.D
Acq On : 11 Dec 2017 18:43
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ClientSampleId :
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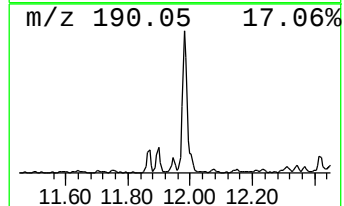
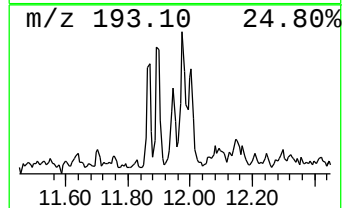
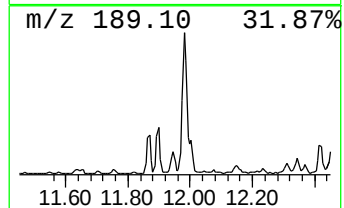
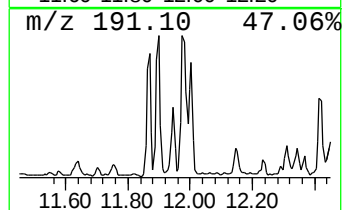
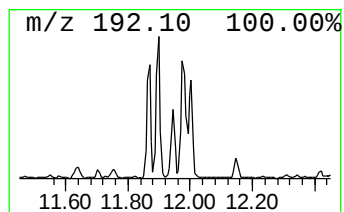
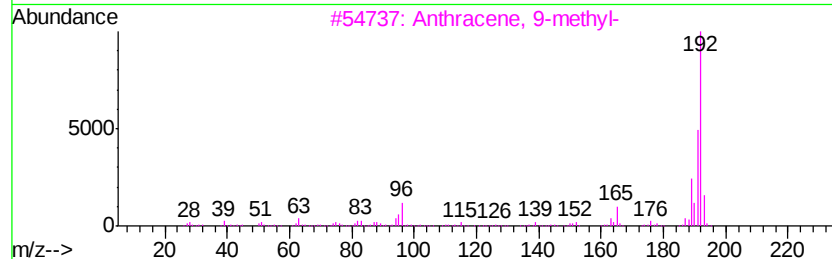
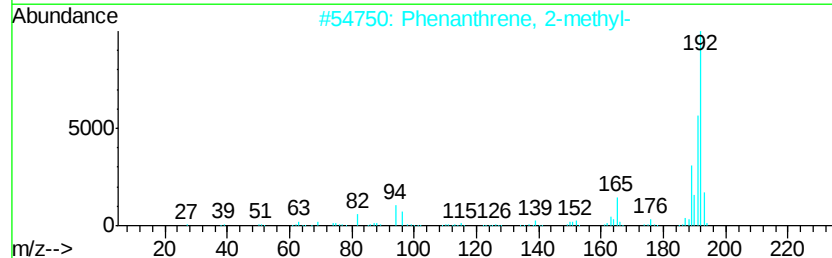
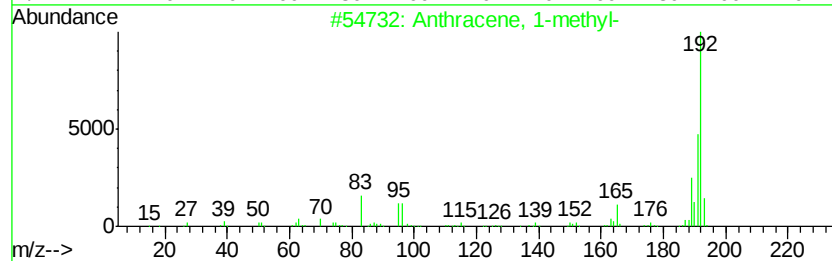
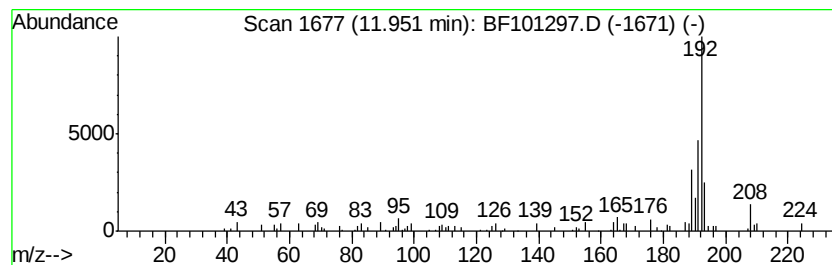
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Anthracene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.95	6.19 ng	93693	Phenanthrene-d10	11.36

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
2		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
3		Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
4		Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
5		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121117\
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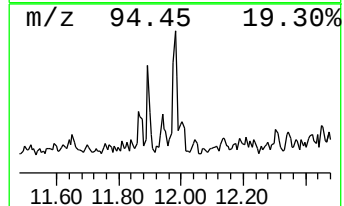
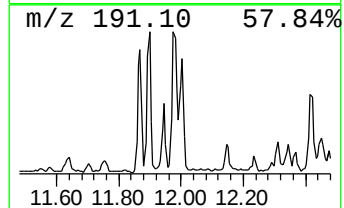
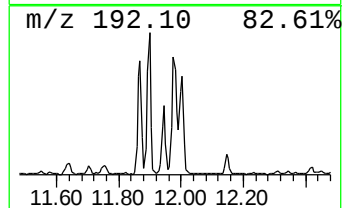
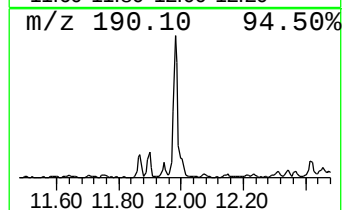
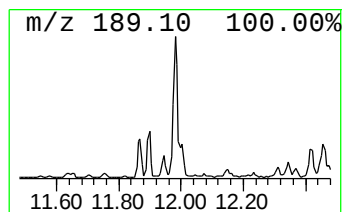
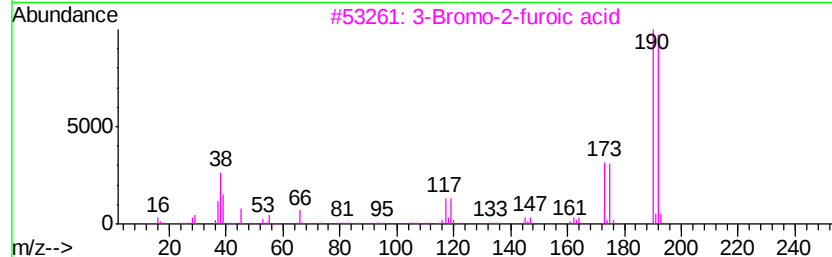
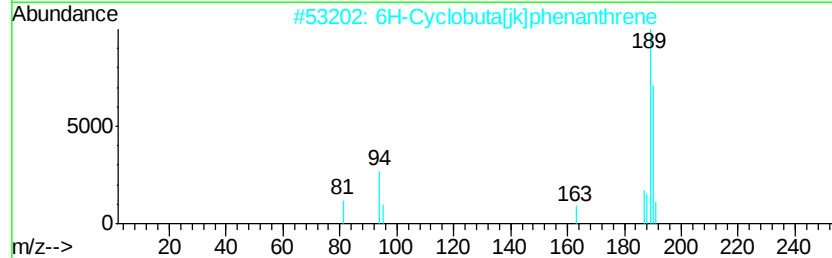
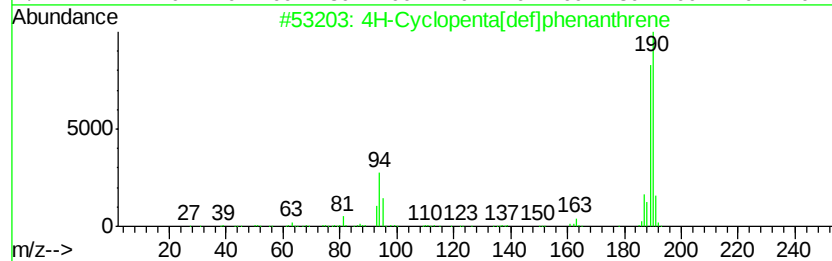
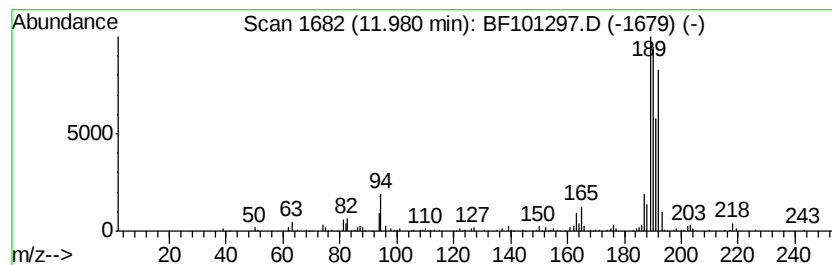
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD		R.T.		
11.98	18.67 ng	282465	Phenanthrene-d10		11.36		
Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	58
2			6H-Cyclobuta[ik]phenanthrene	190	C15H10	083469-43-6	49
3			3-Bromo-2-furoic acid	190	C5H3BrO3	014903-90-3	38
4			5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	30
5			1a,9b-Dihydro-1H-cyclopropa[a]an...	192	C15H12	006109-24-6	30



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121117\
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Soil-Cuttings

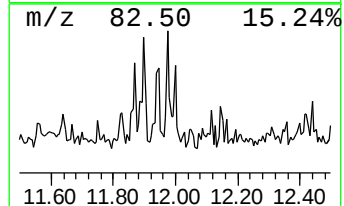
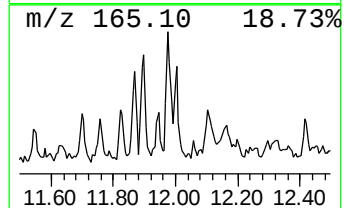
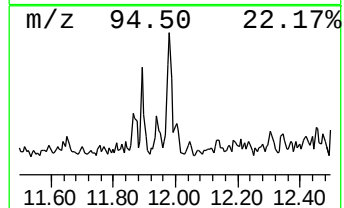
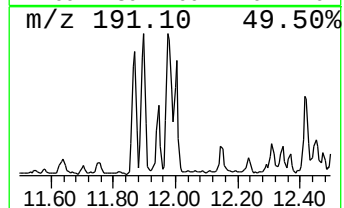
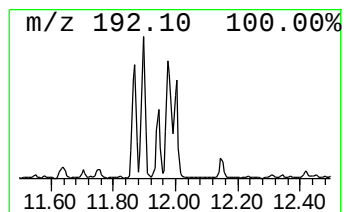
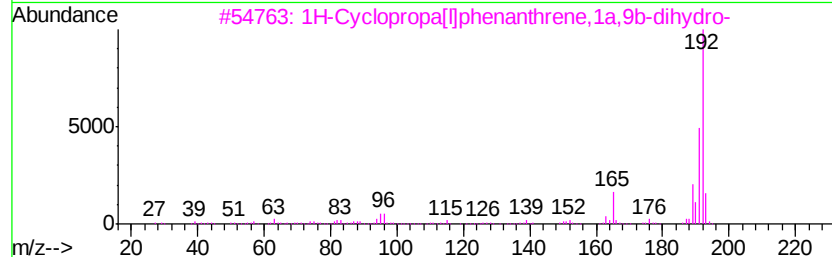
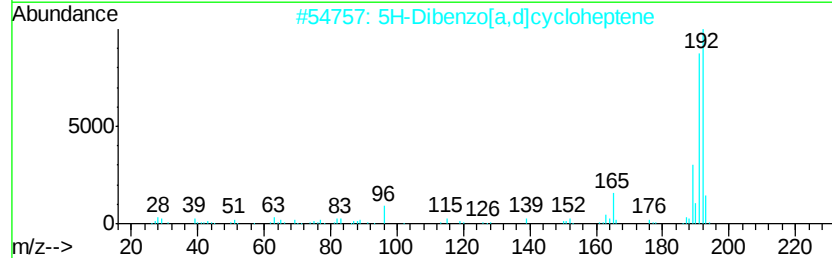
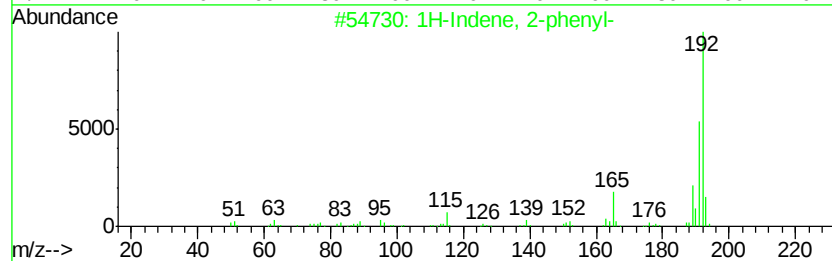
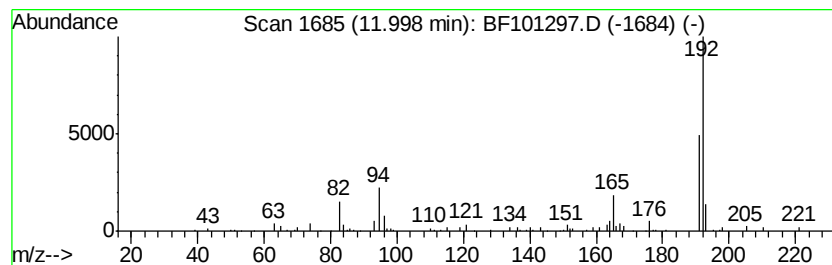
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 1H-Indene, 2-phenyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.00	7.07 ng	107055	Phenanthrene-d10	11.36

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	91
2		5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	91
3		1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	91
4		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	90
5		Anthracene, 1-methyl-	192	C15H12	000610-48-0	90



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121117\
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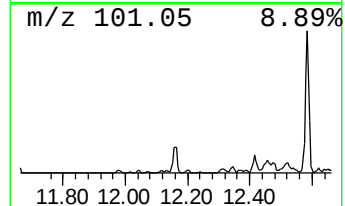
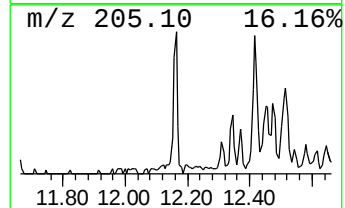
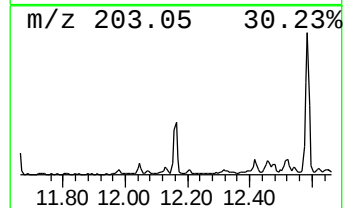
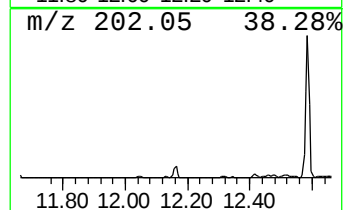
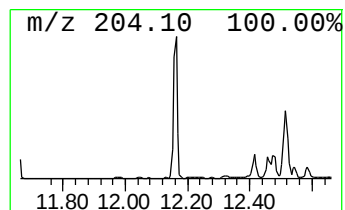
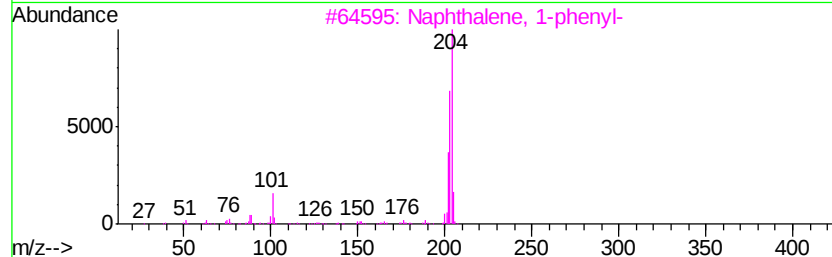
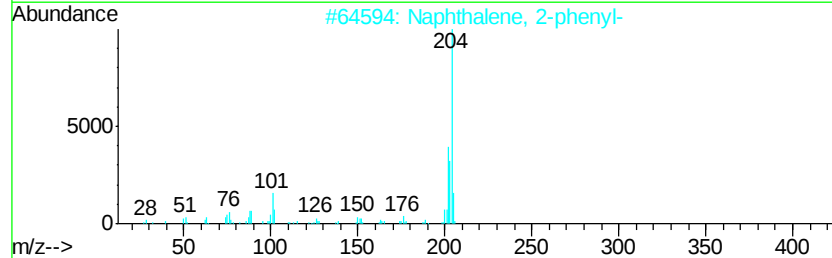
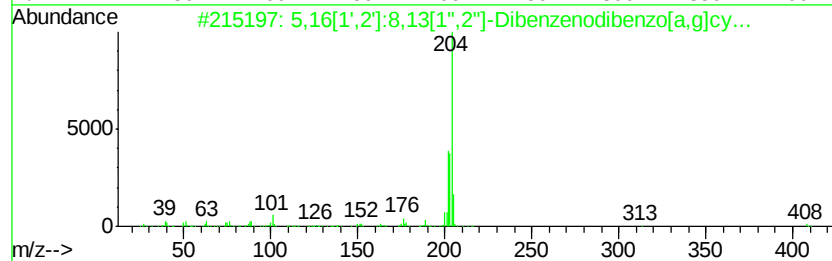
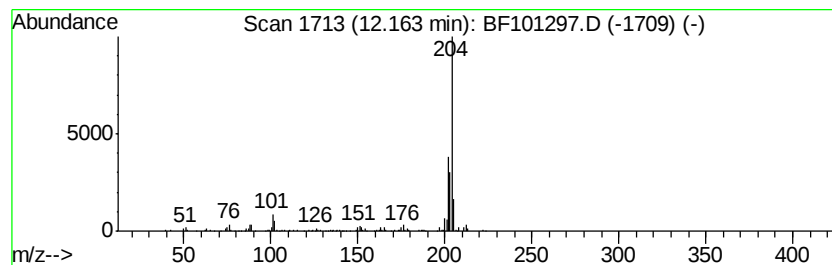
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.16	13.48 ng	203974	Phenanthrene-d10	11.36

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	91
2		Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
3		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	60
4		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	58
5		Levamisole	204	C11H12N2S	014769-73-4	49



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121117\
Data File : BF101297.D
Acq On : 11 Dec 2017 18:43
Operator : SJ/JU
Sample : I6813-01
Misc :
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Soil-Cuttings

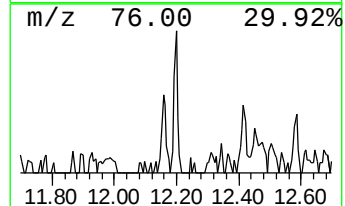
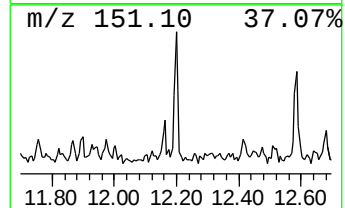
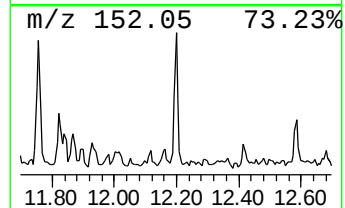
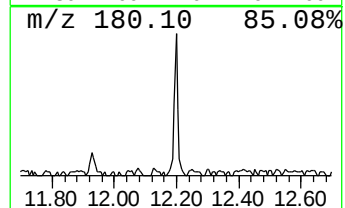
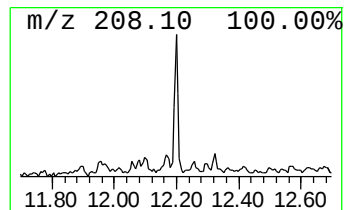
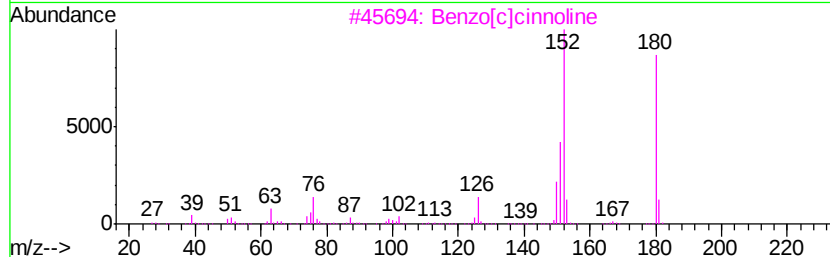
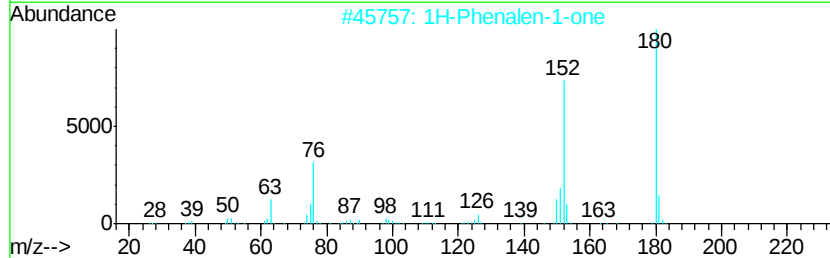
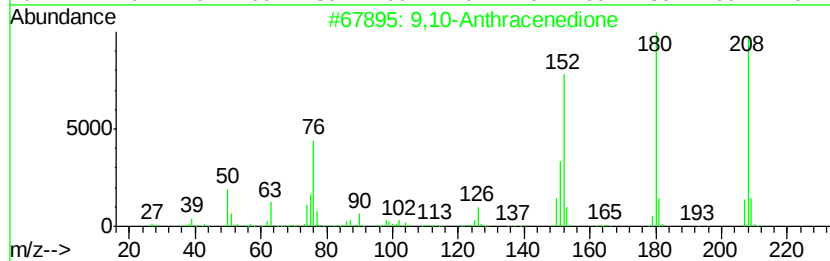
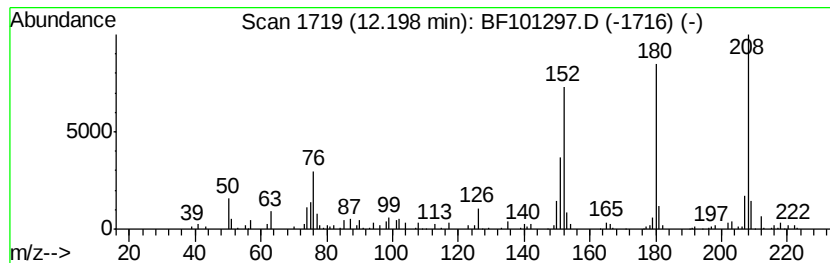
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 9,10-Anthracenedione Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	6.30 ng	95351	Phenanthrene-d10	11.36

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2			1H-Phenalen-1-one	180	C13H8O	000548-39-0	64
3			Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64
4			Benzo[h]cinnoline	180	C12H8N2	000230-31-9	58
5			9H-Fluoren-9-one	180	C13H8O	000486-25-9	55



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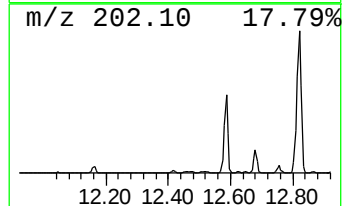
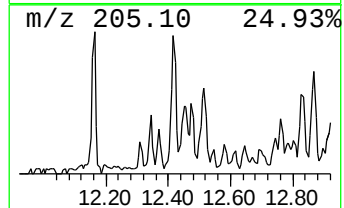
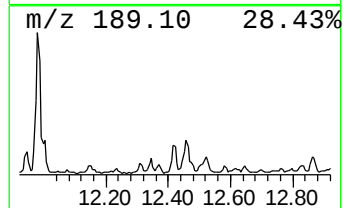
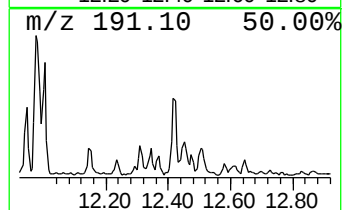
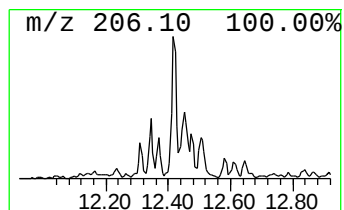
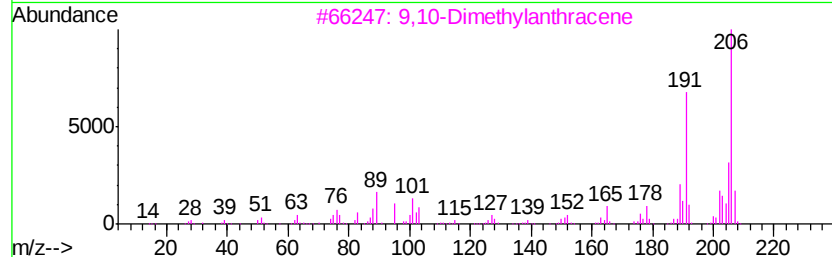
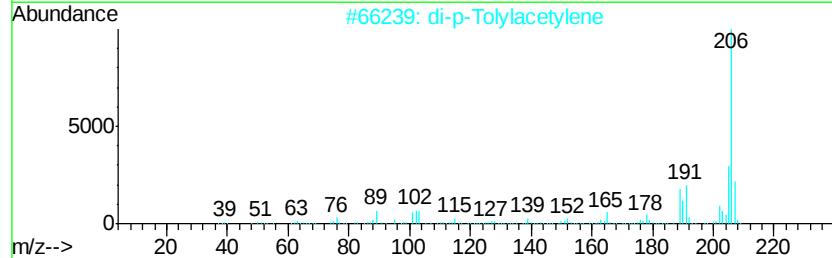
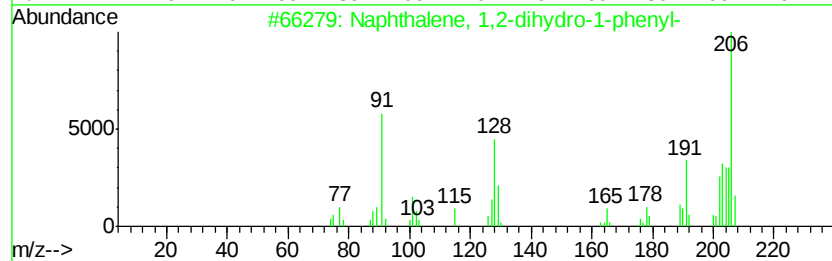
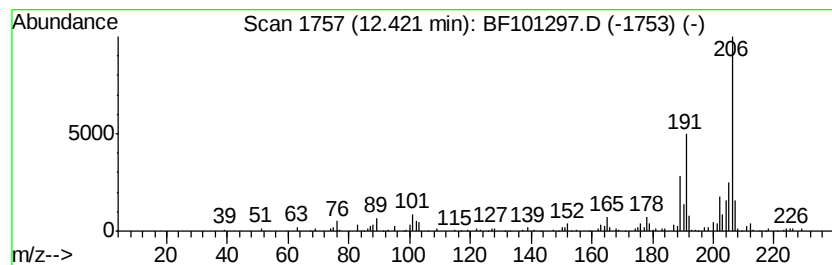
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 13 Naphthalene, 1,2-dihydro-1-... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	10.53 ng	159369	Phenanthrene-d10	11.36

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 1,2-dihydro-1-phenyl-	206	C16H14	016606-46-5	91
2			di-p-Tolylacetylene	206	C16H14	002789-88-0	89
3			9,10-Dimethylantracene	206	C16H14	000781-43-1	89
4			Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	89
5			Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	89



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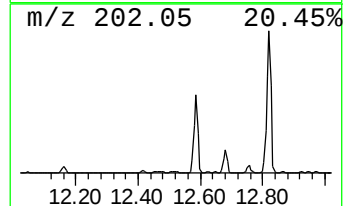
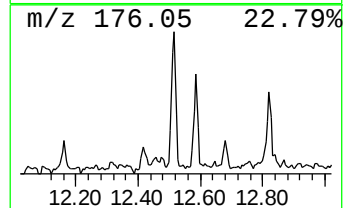
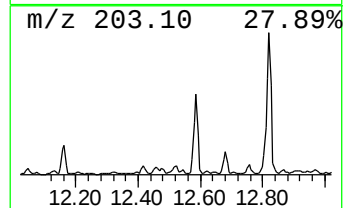
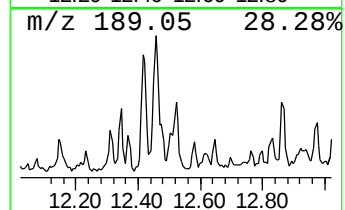
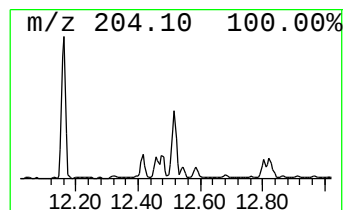
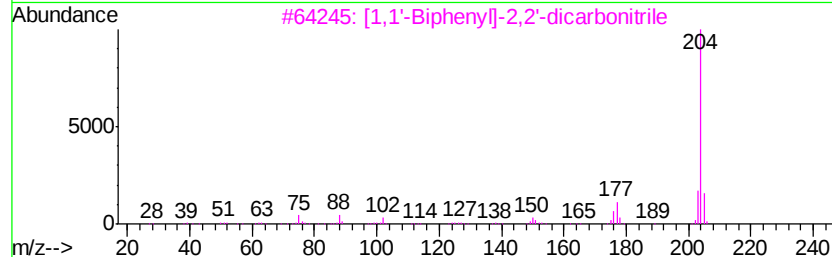
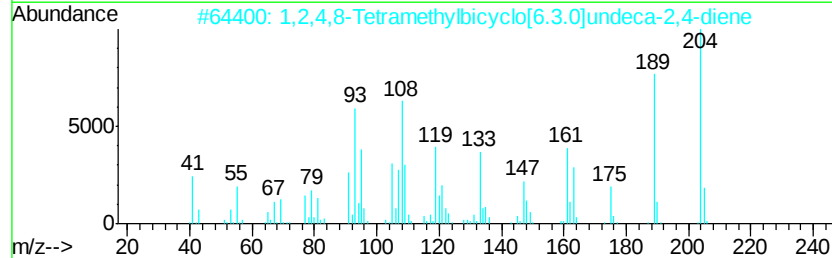
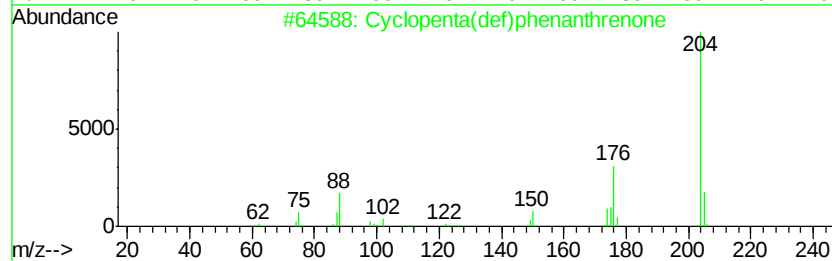
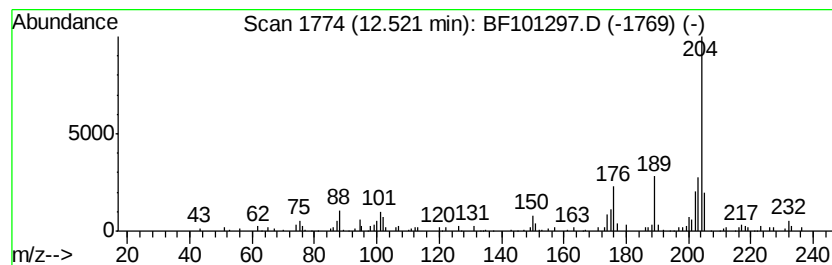
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.52	9.72 ng	147013	Phenanthrene-d10	11.36

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2		1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene	204	C15H24	137235-51-9	60
3		[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	50
4		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50
5		6-Cyanophenanthridine	204	C14H8N2	002176-28-5	50



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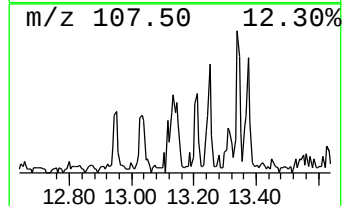
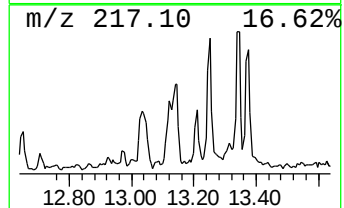
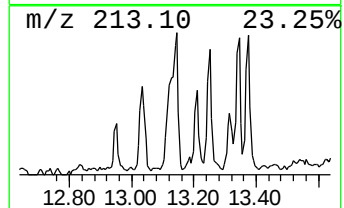
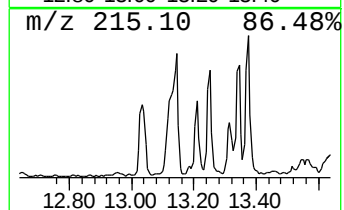
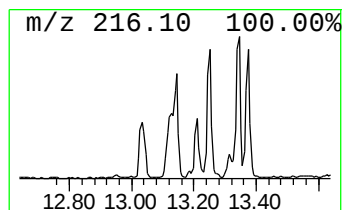
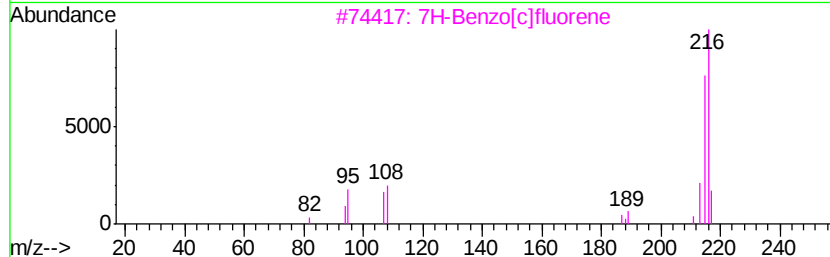
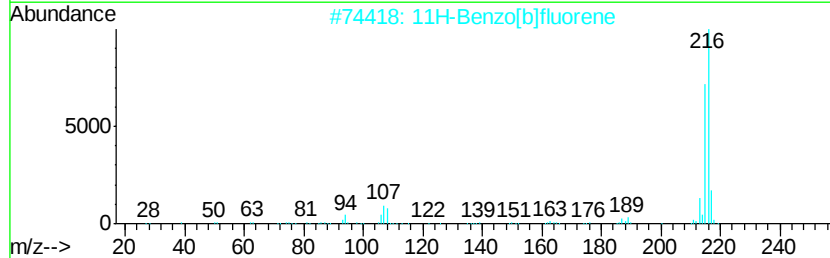
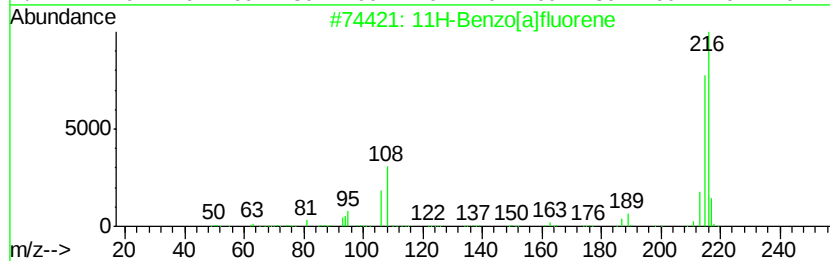
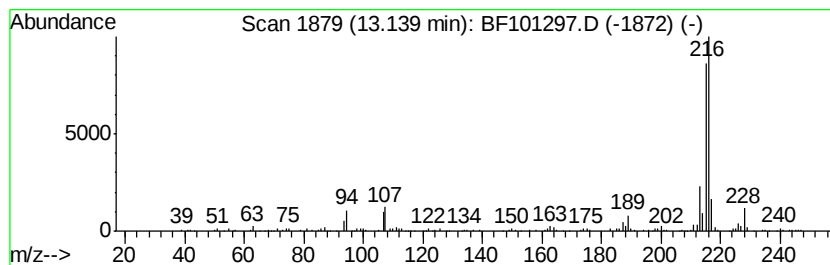
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 11H-Benzo[a]fluorene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.14	7.54 ng	351288	Chrysene-d12	14.02

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
2		11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
3		7H-Benzo[c]fluorene	216	C17H12	000205-12-9	87
4		Pvrene, 1-methyl-	216	C17H12	002381-21-7	64
5		Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	64



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ClientSampleId :
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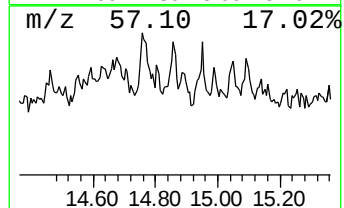
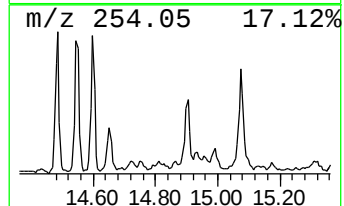
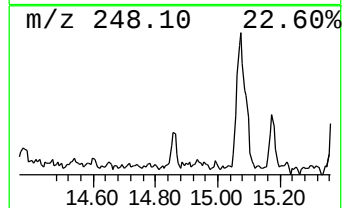
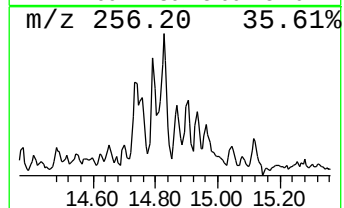
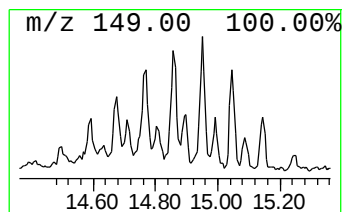
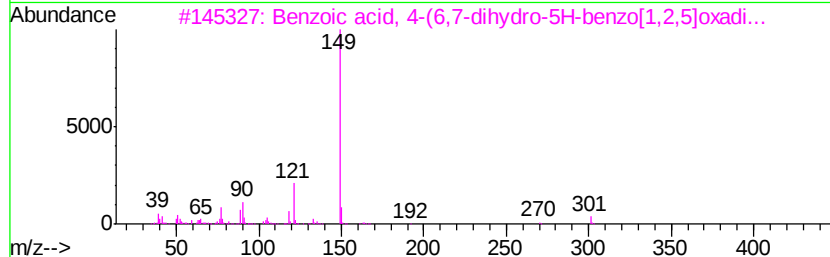
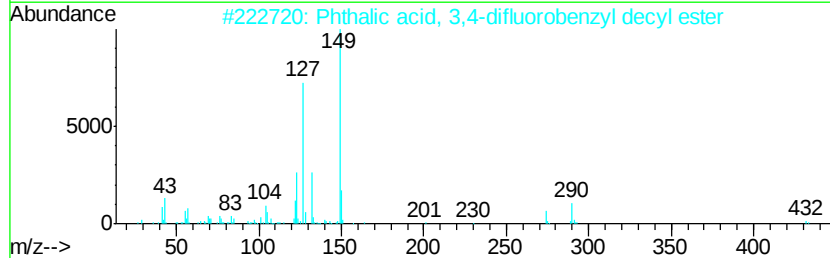
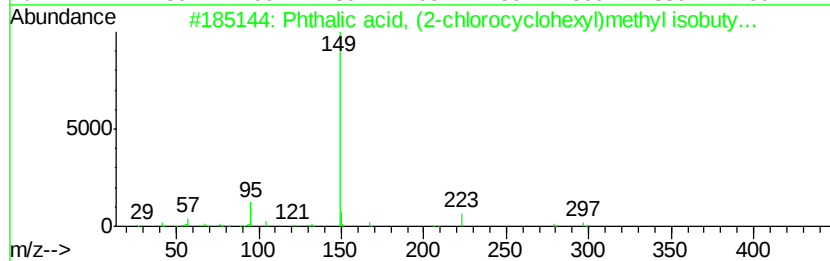
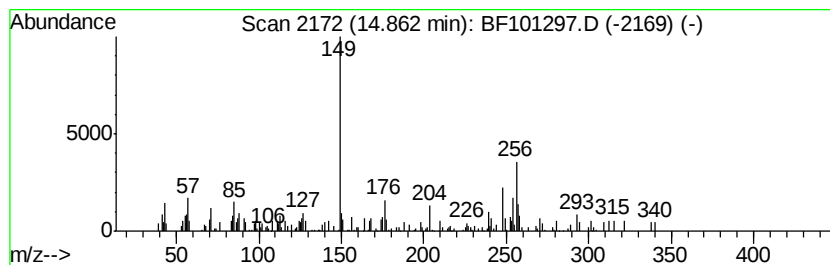
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 unknown14.86 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.86	6.80 ng	62926	Perylene-d12	15.50

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phthalic acid, (2-chlorocyclohex...	352	C19H25ClO4	1000315-35-1	35
2		Phthalic acid, 3,4-difluorobenzyl...	432	C25H30F2O4	1000371-11-8	35
3		Benzoic acid, 4-(6,7-dihydro-5H-...	301	C15H15N3O4	1000303-14-3	35
4		Phthalic acid, butyl tetradecyl ...	418	C26H42O4	1000308-91-3	35
5		1,2-Benzenedicarboxylic acid, bi...	278	C16H22O4	000084-69-5	35



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Soil-Cuttings

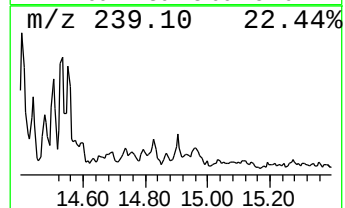
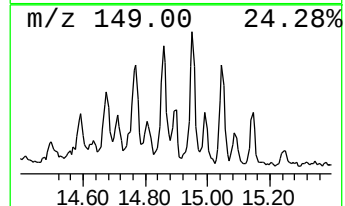
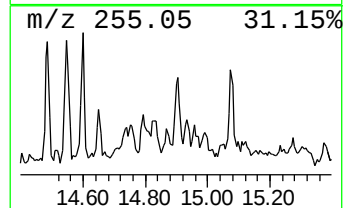
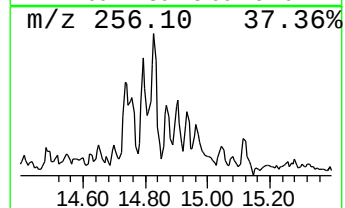
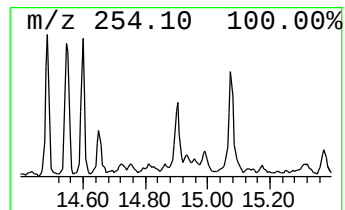
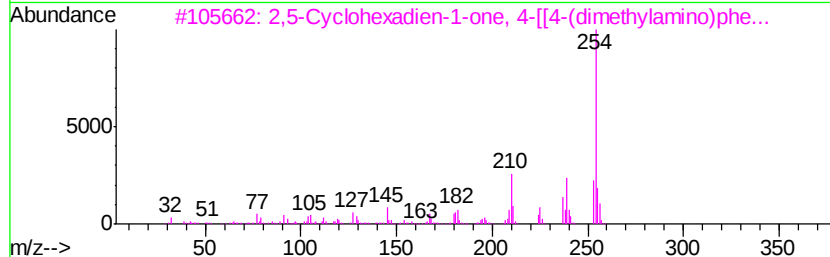
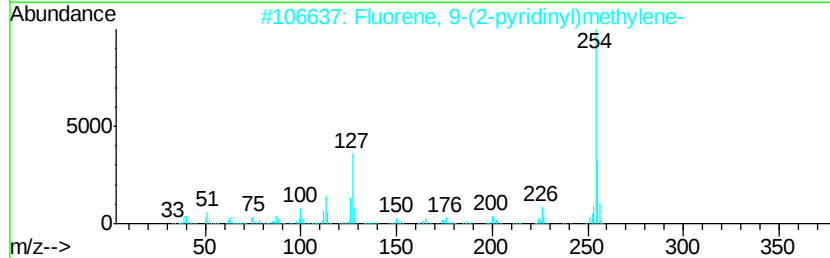
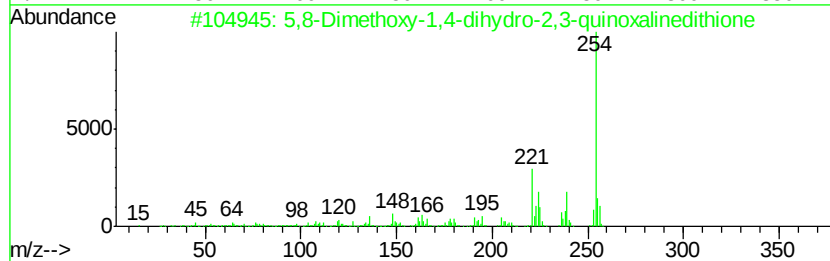
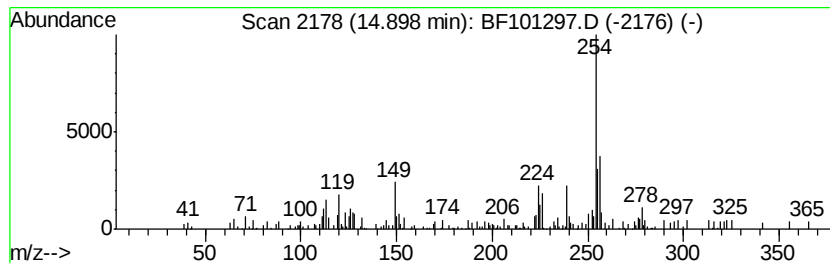
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 18 unknown14.90 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.90	7.87 ng	72833	Perylene-d12	15.50

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	5,8-Dimethoxy-1,4-dihydro-2,3-qu...	254	C10H10N2O2S2	001790-96-1	49
2		Fluorene, 9-(2-pyridinyl)methylene-	255	C19H13N	002871-27-4	45
3		2,5-Cyclohexadien-1-one, 4-[[4-(...	254	C16H18N2O	1000319-40-8	43
4		Benzo(e)pyrene, 9,10-dihydro-	254	C20H14	066788-01-0	43
5		Ferric tris(acetylacetonate)	353	C15H21FeO6	014024-18-1	43



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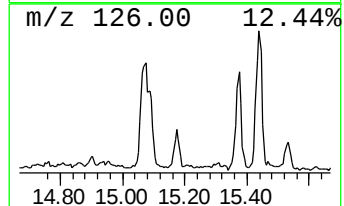
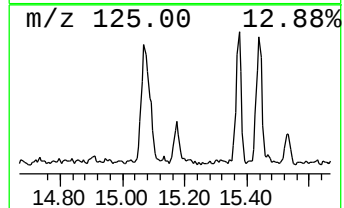
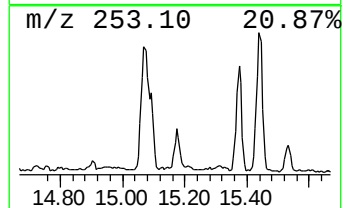
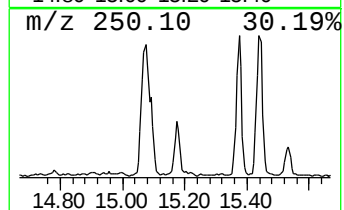
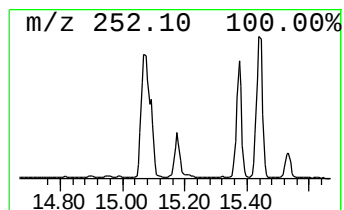
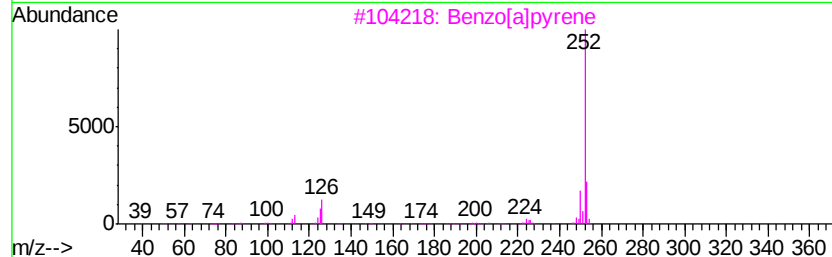
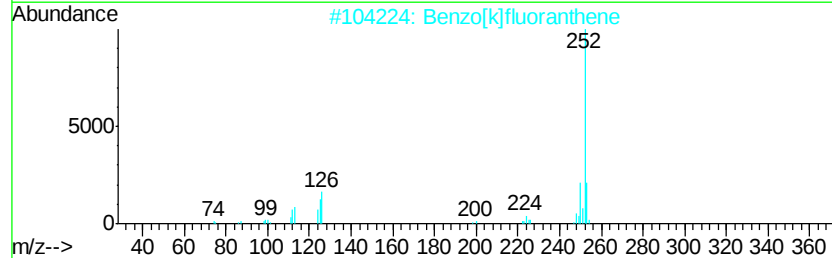
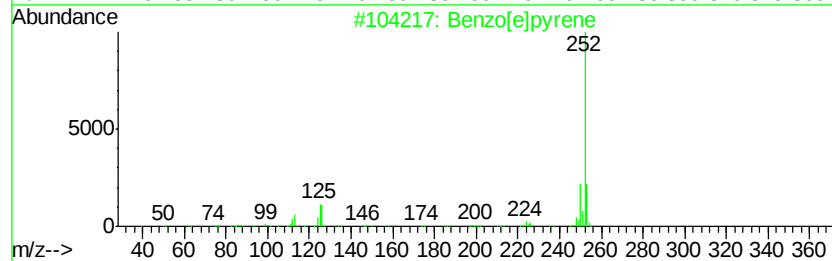
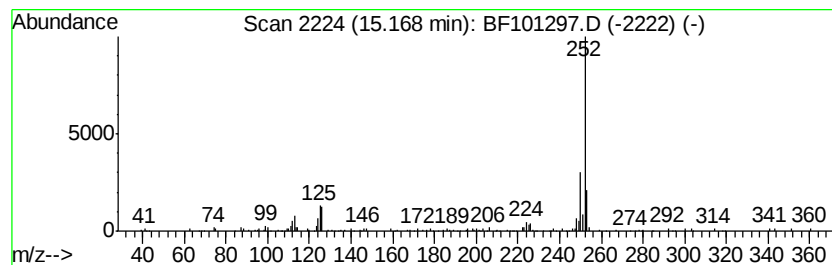
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.17	13.88 ng	128438	Perylene-d12	15.50

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2		Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
3		Benzo[a]pyrene	252	C20H12	000050-32-8	96
4		Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	94
5		Benzo[j]fluoranthene	252	C20H12	000205-82-3	94



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121117\
 Data File : BF101297.D
 Acq On : 11 Dec 2017 18:43
 Operator : SJ/JU
 Sample : I6813-01
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 Soil-Cuttings

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF113017.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	9.1 ng		113583	1	6.83	248429	20.0
unknown6.60	6.60	88.8 ng		1102640	1	6.83	248429	20.0
Dodecane	10.29	7.6 ng		121815	3	9.87	321867	20.0
Indeno[2,1-a]inde...	11.66	10.9 ng		164224	4	11.36	302633	20.0
Anthracene, 9-met...	11.87	9.6 ng		144678	4	11.36	302633	20.0
1H-Indene, 1-phenyl-	11.90	10.4 ng		156813	4	11.36	302633	20.0
Anthracene, 1-met...	11.95	6.2 ng		93693	4	11.36	302633	20.0
4H-Cyclopenta[def...	11.98	18.7 ng		282465	4	11.36	302633	20.0
1H-Indene, 2-phenyl-	12.00	7.1 ng		107055	4	11.36	302633	20.0
5,16[1',2']:8,13[...	12.16	13.5 ng		203974	4	11.36	302633	20.0
9,10-Anthracenedione	12.20	6.3 ng		95351	4	11.36	302633	20.0
Naphthalene, 1,2-...	12.42	10.5 ng		159369	4	11.36	302633	20.0
Cyclopenta(def)ph...	12.52	9.7 ng		147013	4	11.36	302633	20.0
11H-Benzo[a]fluorene	13.14	7.5 ng		351288	5	14.02	931849	20.0
unknown14.86	14.86	6.8 ng		62926	6	15.50	185115	20.0
unknown14.90	14.90	7.9 ng		72833	6	15.50	185115	20.0
Benzo[e]pyrene	15.17	13.9 ng		128438	6	15.50	185115	20.0