

Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\
 Data File : BF097218.D
 Acq On : 31 Jul 2017 20:01
 Operator : SJ/JU
 Sample : I4456-12
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-17-SS-8

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-BF072517.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	4.622	461	465	479	rVB	197302	305237	3.57%	0.244%
2	5.098	543	546	570	rBV	2080657	2765572	32.37%	2.206%
3	6.169	724	728	740	rBV	2333276	2861635	33.49%	2.283%
4	6.263	740	744	750	rVB	2586910	2592098	30.34%	2.068%
5	6.481	777	781	785	rBV	784455	712547	8.34%	0.568%
6	6.604	798	802	804	rBV	347503	277193	3.24%	0.221%
7	6.633	804	807	810	rVV	2125934	2001728	23.43%	1.597%
8	7.051	873	878	881	rBV	1861245	1764747	20.66%	1.408%
9	7.792	1000	1004	1007	rVB	3817087	3937368	46.09%	3.141%
10	8.475	1116	1120	1124	rBV	1831401	1601951	18.75%	1.278%
11	8.575	1130	1137	1140	rBV	1107850	1034997	12.11%	0.826%
12	8.845	1174	1183	1186	rBV	2549496	2628081	30.76%	2.097%
13	8.939	1196	1199	1201	rBV	551061	424405	4.97%	0.339%
14	9.033	1212	1215	1220	rVB	277097	273334	3.20%	0.218%
15	9.098	1220	1226	1231	rBV	379394	512766	6.00%	0.409%
16	9.174	1235	1239	1241	rVV	570404	565331	6.62%	0.451%
17	9.198	1241	1243	1247	rVV	402583	342658	4.01%	0.273%
18	9.245	1247	1251	1254	rVV	669187	607107	7.11%	0.484%
19	9.292	1255	1259	1266	rVB2	257900	361080	4.23%	0.288%
20	9.369	1266	1272	1276	rBV	359424	343687	4.02%	0.274%
21	9.510	1290	1296	1298	rVV3	1101685	1302422	15.24%	1.039%
22	9.545	1298	1302	1306	rVV	2614270	2513241	29.42%	2.005%
23	9.716	1327	1331	1335	rVV	1843705	1707043	19.98%	1.362%
24	10.057	1385	1389	1392	rBV	2261930	2136157	25.00%	1.704%
25	10.121	1395	1400	1401	rBV	301629	396040	4.64%	0.316%
26	10.139	1401	1403	1405	rVV	421691	363568	4.26%	0.290%
27	10.163	1405	1407	1409	rVV2	587117	511574	5.99%	0.408%
28	10.216	1413	1416	1417	rVV	536939	468332	5.48%	0.374%
29	10.251	1417	1422	1425	rVV	2689267	2838898	33.23%	2.265%
30	10.304	1425	1431	1434	rVV	1572252	1766821	20.68%	1.410%
31	10.427	1448	1452	1458	rVB3	330040	427614	5.01%	0.341%
32	10.604	1477	1482	1484	rBV2	383831	438943	5.14%	0.350%
33	10.804	1512	1516	1520	rVV	837312	786328	9.20%	0.627%
34	10.845	1520	1523	1526	rVV	254526	271157	3.17%	0.216%

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 Integrator: RTE
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 Sampling : 1
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 Min Area: 3 % of largest Peak
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Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	10.880	1526	1529	1533	rVV	913498	899939	10.53%	0.718%
36	11.033	1543	1555	1557	rBV2	4275290	8543706	100.00%	6.816%
37	11.074	1557	1562	1564	rVV	2821206	2843259	33.28%	2.268%
38	11.104	1564	1567	1570	rVB	526388	496732	5.81%	0.396%
39	11.204	1581	1584	1585	rBV	391666	327630	3.83%	0.261%
40	11.227	1585	1588	1595	rVB	1781497	1841542	21.55%	1.469%
41	11.286	1595	1598	1602	rBV4	241439	366930	4.29%	0.293%
42	11.327	1602	1605	1609	rVB4	185636	269114	3.15%	0.215%
43	11.492	1628	1633	1635	rBV	1236989	1197104	14.01%	0.955%
44	11.521	1635	1638	1641	rVB	1546903	1452214	17.00%	1.159%
45	11.568	1641	1646	1648	rBV2	636499	909525	10.65%	0.726%
46	11.604	1648	1652	1654	rBV	1774871	1925577	22.54%	1.536%
47	11.704	1666	1669	1671	rVV2	283679	344069	4.03%	0.274%
48	11.786	1680	1683	1685	rVV	786385	731044	8.56%	0.583%
49	11.821	1685	1689	1692	rVV	833267	842440	9.86%	0.672%
50	12.039	1722	1726	1729	rBV	442028	524539	6.14%	0.418%
51	12.080	1729	1733	1737	rVV5	312731	648220	7.59%	0.517%
52	12.115	1737	1739	1741	rVV2	321675	381180	4.46%	0.304%
53	12.139	1741	1743	1748	rVB	465139	427749	5.01%	0.341%
54	12.221	1748	1757	1760	rBV	3857345	6800003	79.59%	5.425%
55	12.268	1760	1765	1767	rBV2	247138	324279	3.80%	0.259%
56	12.345	1773	1778	1781	rBV2	541279	666091	7.80%	0.531%
57	12.380	1781	1784	1788	rBV2	386786	365248	4.28%	0.291%
58	12.445	1788	1795	1798	rBV3	3452164	6618943	77.47%	5.280%
59	12.474	1798	1800	1806	rVB3	467974	556148	6.51%	0.444%
60	12.545	1809	1812	1814	rBV	596789	558296	6.53%	0.445%
61	12.574	1814	1817	1824	rVB2	1487343	1822078	21.33%	1.454%
62	12.651	1824	1830	1832	rBV2	538448	843406	9.87%	0.673%
63	12.674	1832	1834	1837	rVB	304780	265755	3.11%	0.212%
64	12.757	1840	1848	1851	rVB2	1355813	2102943	24.61%	1.678%
65	12.821	1856	1859	1862	rBV	1027580	970323	11.36%	0.774%
66	12.857	1862	1865	1867	rBV2	828988	859504	10.06%	0.686%
67	12.951	1877	1881	1883	rVB	379185	329719	3.86%	0.263%
68	12.980	1883	1886	1889	rBV2	446200	457920	5.36%	0.365%
69	13.174	1914	1919	1921	rBV3	218394	292703	3.43%	0.234%
70	13.233	1926	1929	1932	rBV3	280202	352782	4.13%	0.281%
71	13.268	1932	1935	1938	rVB	589409	556587	6.51%	0.444%

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 Sampling : 1 Min Area: 3 % of largest Peak
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72	13.374	1948	1953	1955	rBV2	747175	1014881	11.88%	0.810%
73	13.398	1955	1957	1959	rVB	569509	421130	4.93%	0.336%
74	13.421	1959	1961	1963	rBV	517465	485138	5.68%	0.387%
75	13.480	1968	1971	1977	rBV	651416	767276	8.98%	0.612%
76	13.627	1987	1996	1998	rBV2	2618127	5160581	60.40%	4.117%
77	13.662	1999	2002	2009	rVB	2566384	3501573	40.98%	2.793%
78	13.733	2009	2014	2016	rBV	1011796	984591	11.52%	0.785%
79	13.774	2018	2021	2023	rVV	382062	364627	4.27%	0.291%
80	13.821	2026	2029	2031	rVV	471089	473406	5.54%	0.378%
81	13.857	2033	2035	2038	rVB	525133	406255	4.76%	0.324%
82	13.974	2052	2055	2058	rBV2	334768	482026	5.64%	0.385%
83	14.009	2058	2061	2064	rVV	738757	840549	9.84%	0.671%
84	14.045	2064	2067	2069	rVB2	384732	325160	3.81%	0.259%
85	14.133	2080	2082	2084	rVV2	448299	433026	5.07%	0.345%
86	14.151	2084	2085	2088	rVV	465625	358214	4.19%	0.286%
87	14.333	2111	2116	2123	rBV5	297910	605179	7.08%	0.483%
88	14.486	2139	2142	2145	rVB	365834	363955	4.26%	0.290%
89	14.639	2161	2168	2170	rBV	2101504	4341225	50.81%	3.463%
90	14.715	2178	2181	2185	rVB	738855	700796	8.20%	0.559%
91	14.886	2204	2210	2215	rBV	1359090	2015792	23.59%	1.608%
92	14.945	2215	2220	2224	rVV	1771043	2749319	32.18%	2.193%
93	14.986	2224	2227	2229	rVV	369964	382510	4.48%	0.305%
94	15.015	2229	2232	2238	rVB2	847118	1070559	12.53%	0.854%
95	16.227	2431	2438	2442	rBV2	922121	1755367	20.55%	1.400%
96	16.350	2454	2459	2463	rBV	273249	504951	5.91%	0.403%
97	16.403	2464	2468	2473	rVB2	196404	327580	3.83%	0.261%
98	16.598	2493	2501	2507	rVB	731165	1510979	17.69%	1.205%
99	16.780	2527	2532	2544	rVB3	269376	660092	7.73%	0.527%
100	18.444	2808	2815	2830	rVB3	242383	785185	9.19%	0.626%

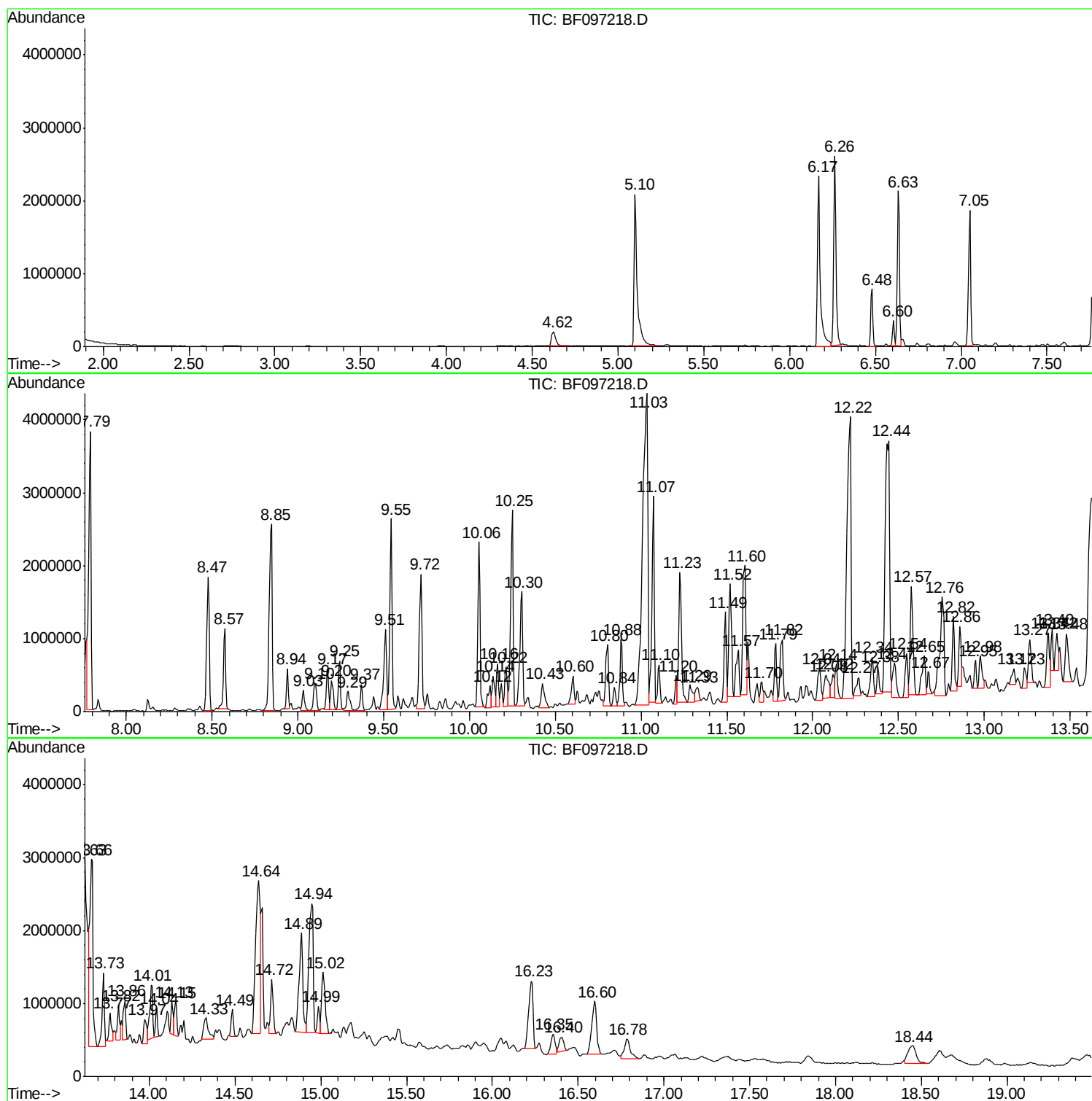
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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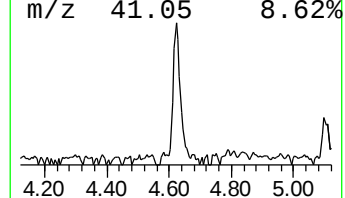
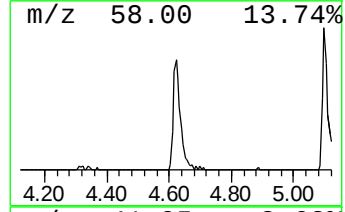
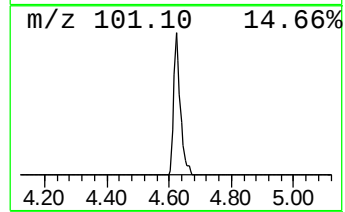
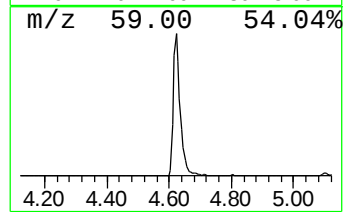
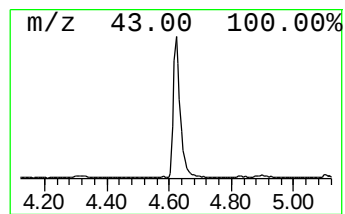
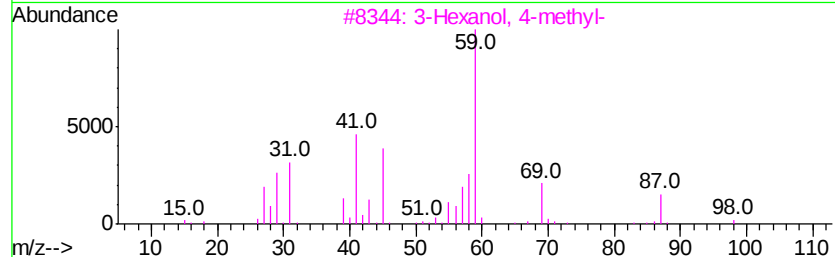
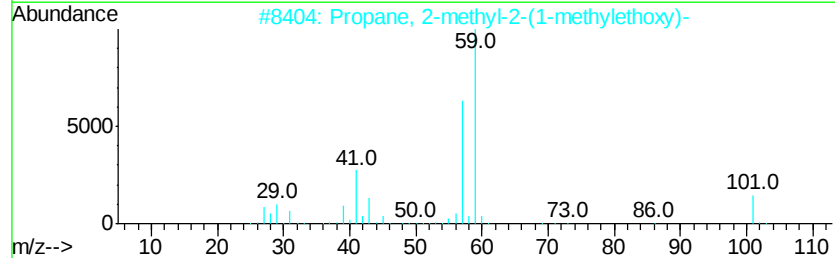
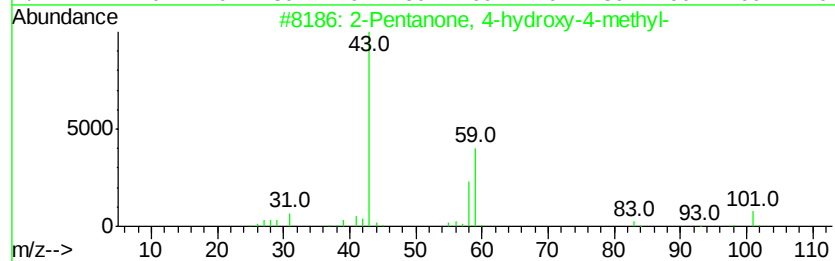
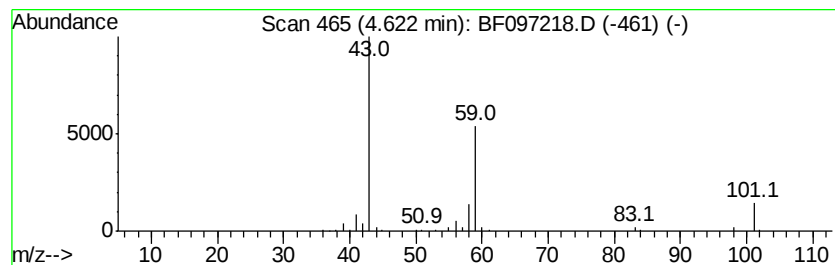
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.62	8.57 ng	305237	1,4-Dichlorobenzene-d4	6.48

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2			Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	42
3			3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
4			Acetic acid, cyano-, 1,1-dimethyl...	141	C7H11NO2	001116-98-9	32
5			2-Hexanol, 2-methyl-	116	C7H16O	000625-23-0	28



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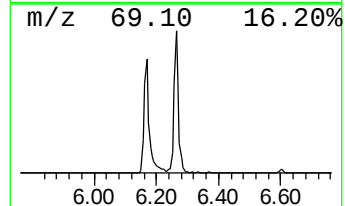
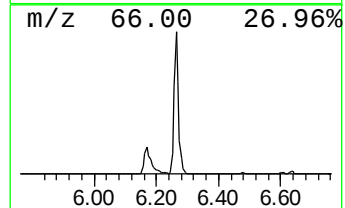
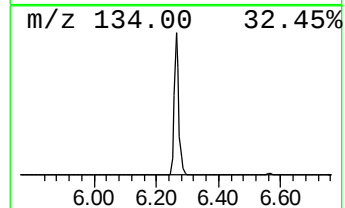
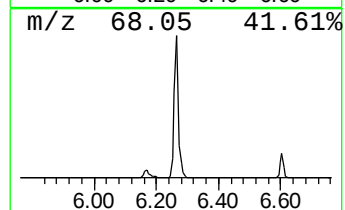
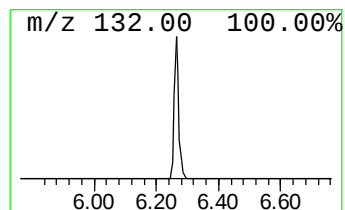
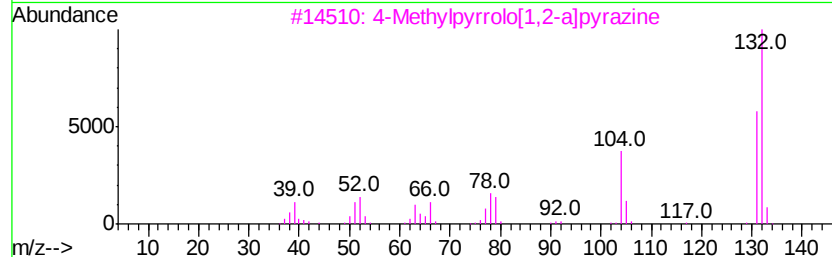
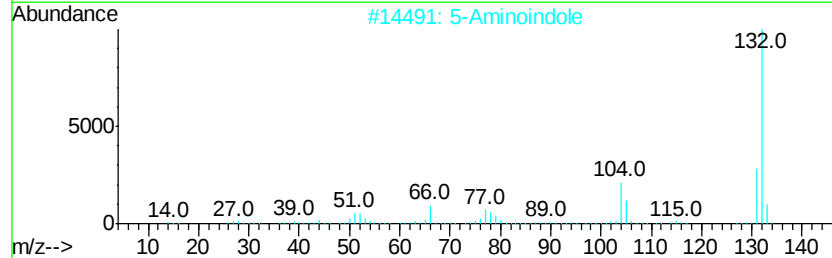
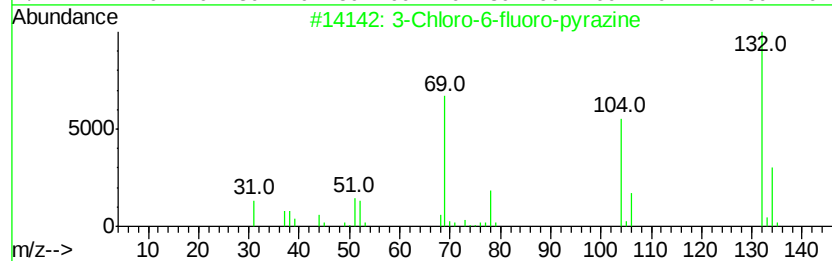
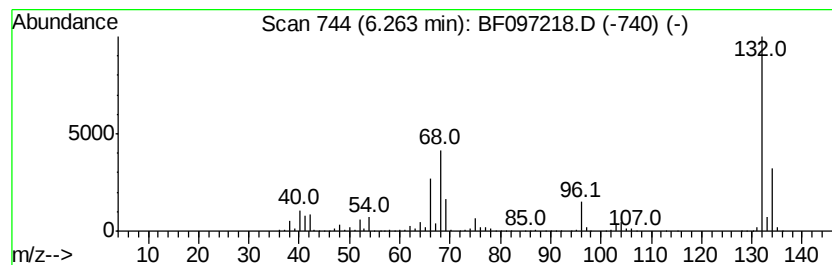
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 unknown6.26 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.26	72.76 ng	2592100	1,4-Dichlorobenzene-d4	6.48

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Chloro-6-fluoro-pyrazine			132	C4H2ClFN2	1000146-10-7	27
2	5-Aminoindole			132	C8H8N2	005192-03-0	12
3	4-Methylpyrrolo[1,2-a]pyrazine			132	C8H8N2	064608-60-2	9
4	1-Methylpyrrolo[1,2-a]pyrazine			132	C8H8N2	064608-59-9	9
5	2H-Cyclopenta[d]pyridazine, 2-me...			132	C8H8N2	022291-85-6	9



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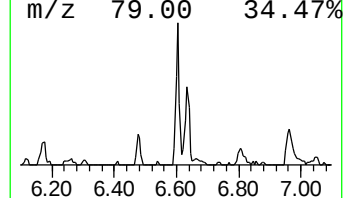
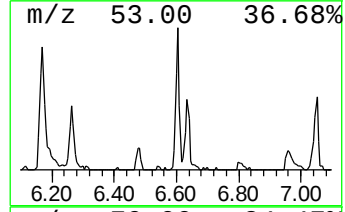
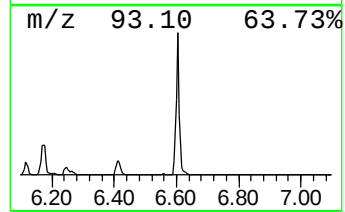
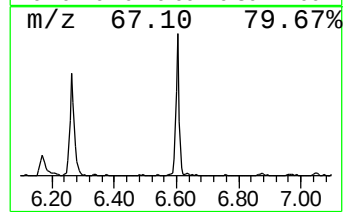
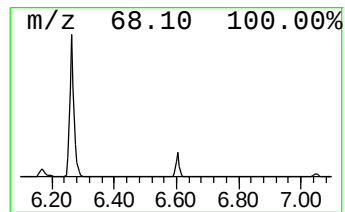
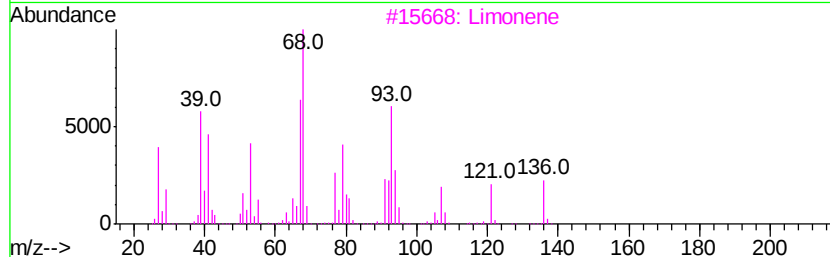
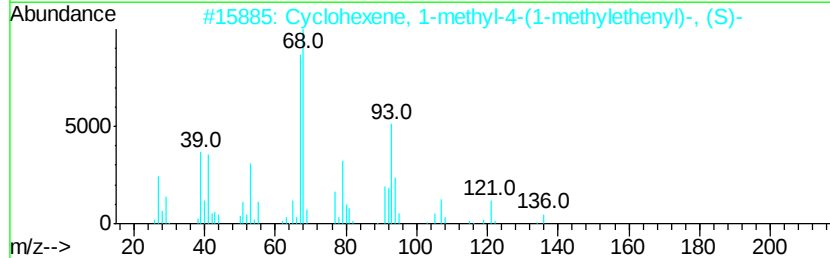
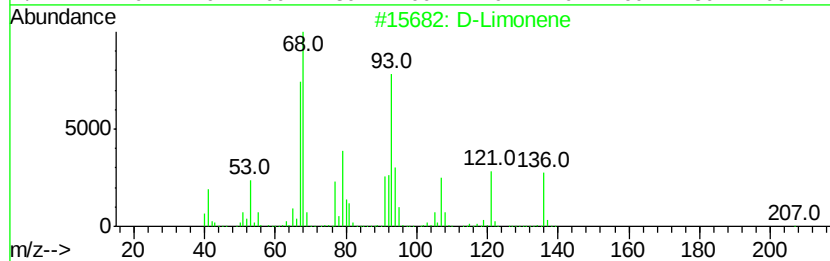
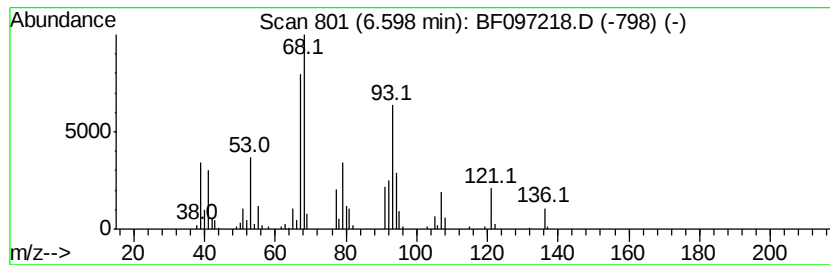
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 D-Limonene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.60	7.78 ng	277193	1,4-Dichlorobenzene-d4	6.48

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	D-Limonene	136	C10H16	005989-27-5	96
2		Cyclohexene, 1-methyl-4-(1-methyl-2-propenyl)-, (S)-	136	C10H16	005989-54-8	95
3		Limonene	136	C10H16	000138-86-3	91
4		Cyclohexene, 1-methyl-5-(1-methyl-2-propenyl)-, (S)-	136	C10H16	013898-73-2	86
5		Cyclohexanol, 1-methyl-4-(1-methyl-2-propenyl)-, (S)-	196	C12H20O2	010198-23-9	72



Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\
Data File : BF097218.D
Acq On : 31 Jul 2017 20:01
Operator : SJ/JU
Sample : I4456-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
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ClientSampleId :
TP-17-SS-8

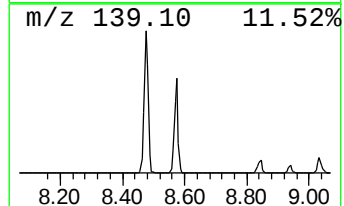
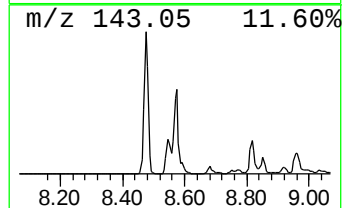
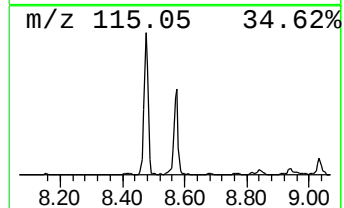
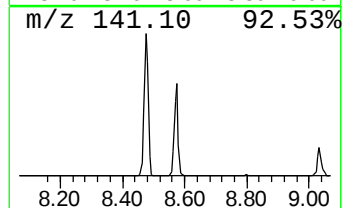
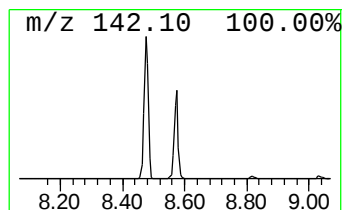
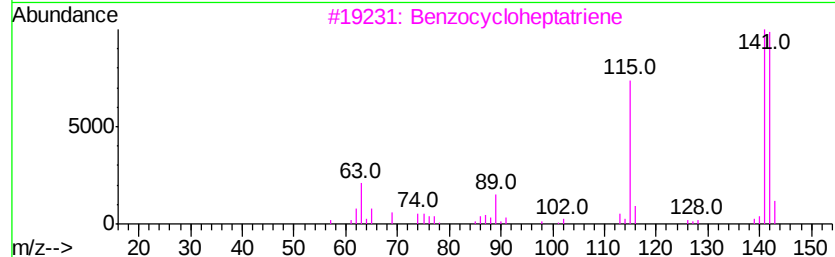
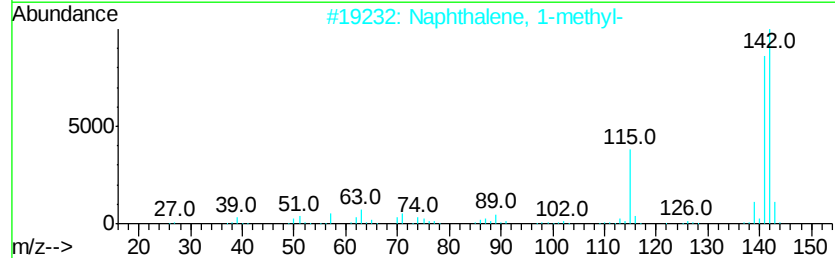
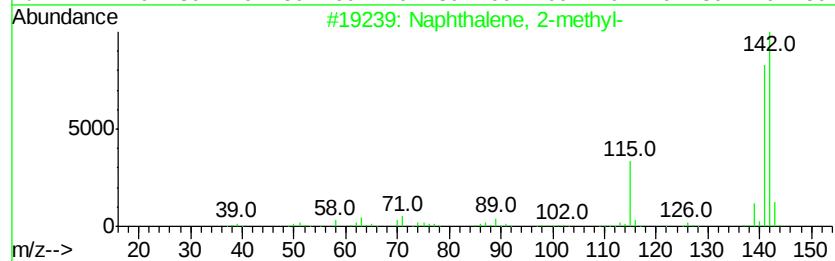
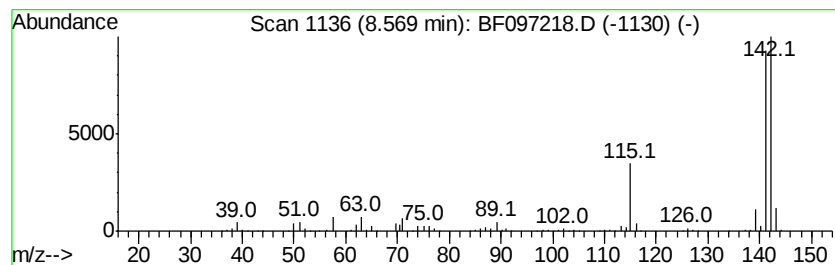
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Naphthalene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.57	5.26 ng	1035000	Naphthalene-d8	7.76

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
2		Naphthalene, 1-methyl-	142	C11H10	000090-12-0	94
3		Benzocycloheptatriene	142	C11H10	000264-09-5	94
4		1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	91
5		Bicyclo[4.4.1]undeca-1,3,5,7,9-p...	142	C11H10	002443-46-1	91



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Data File : BF097218.D
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Misc :
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Instrument :
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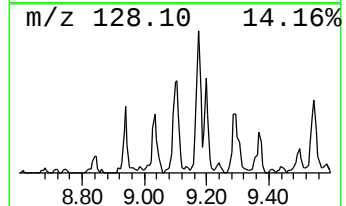
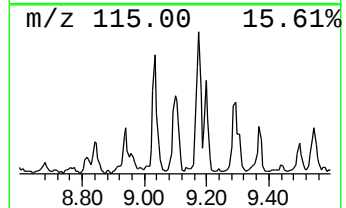
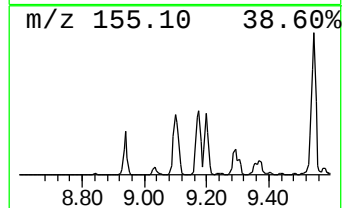
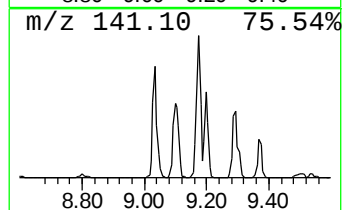
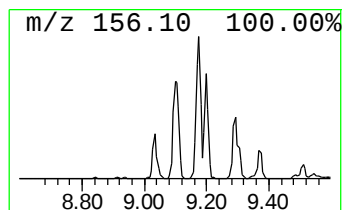
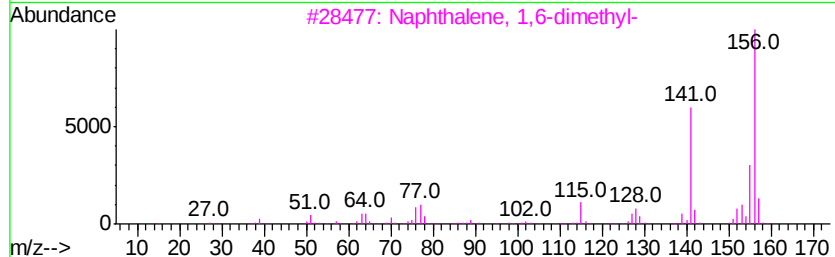
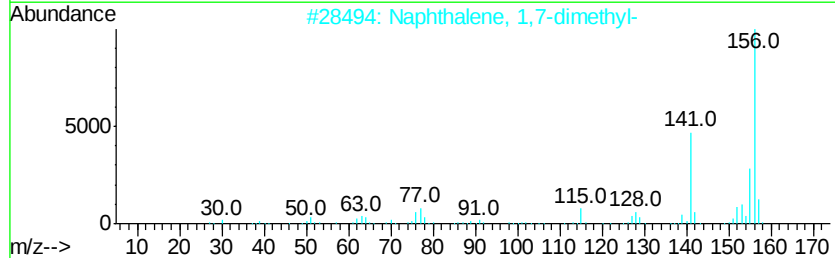
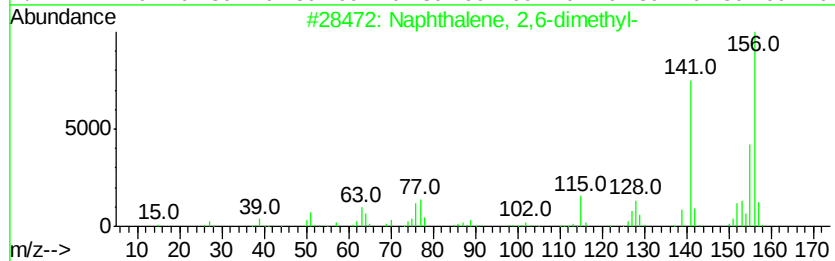
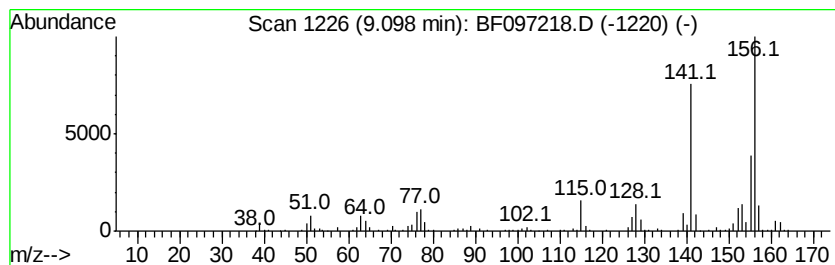
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Naphthalene, 2,6-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.10	7.87 ng	512766	Acenaphthene-d10	9.51

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	98
2		Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
3		Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
4		Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
5		Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	96



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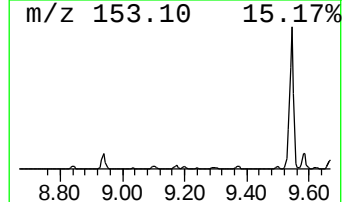
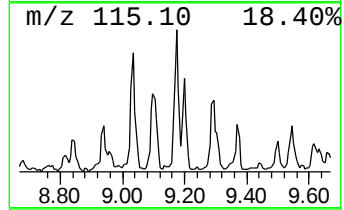
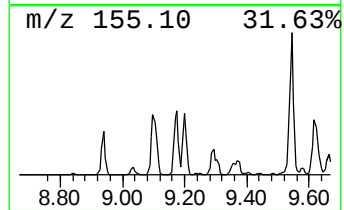
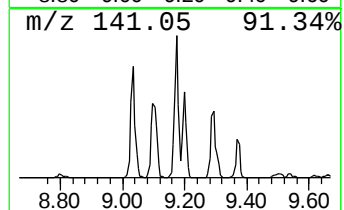
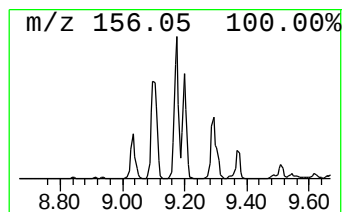
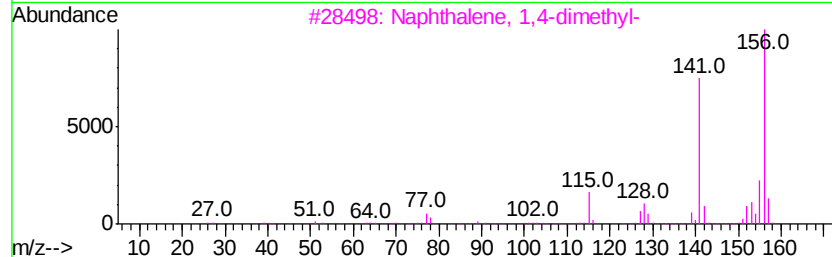
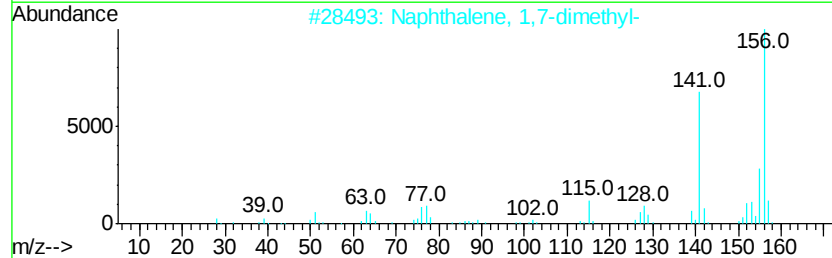
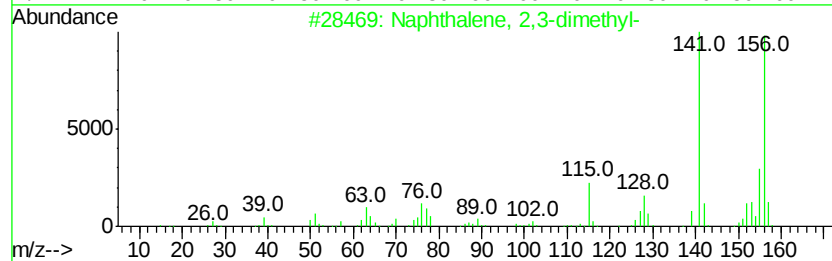
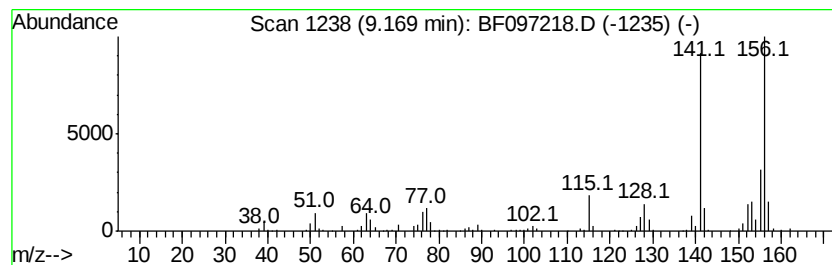
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Naphthalene, 2,3-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.17	8.68 ng	565331	Acenaphthene-d10	9.51

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2		Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
3		Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
4		Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
5		Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF073117\
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Sample : I4456-12
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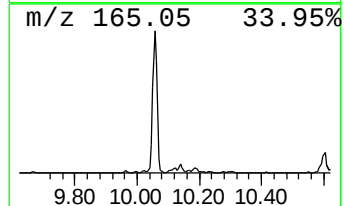
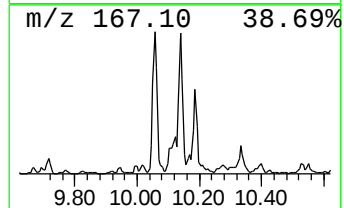
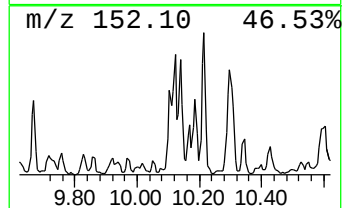
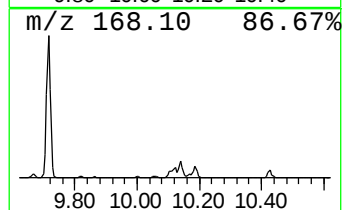
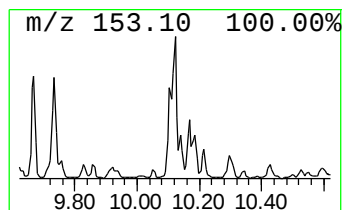
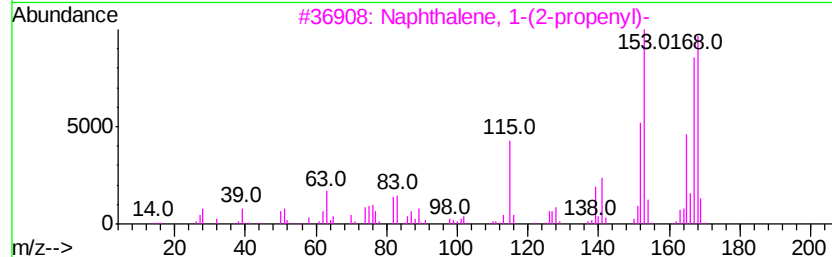
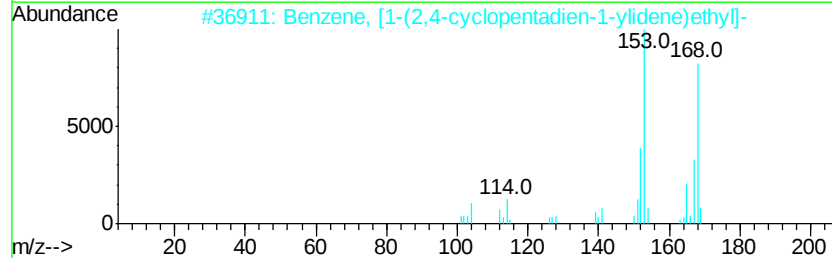
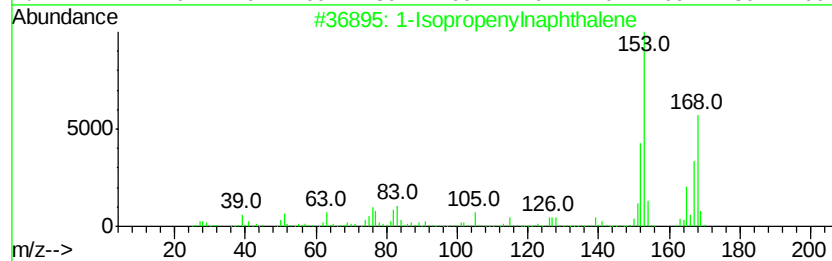
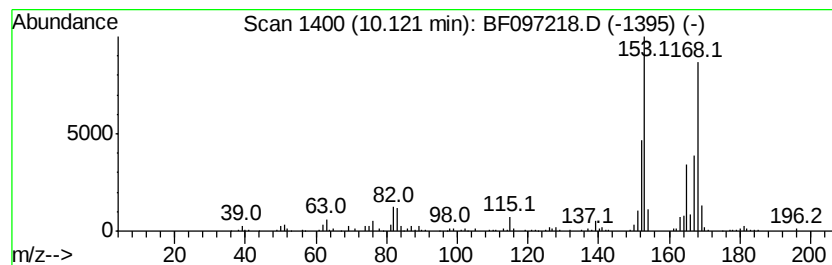
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 1-Isopropenylnaphthalene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.		
10.12	6.08 ng	396040	Acenaphthene-d10	9.51		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		1-Isopropenylnaphthalene	168	C13H12	001855-47-6	93
2		Benzene, [1-(2,4-cyclopentadien-...	168	C13H12	002320-32-3	87
3		Naphthalene, 1-(2-propenyl)-	168	C13H12	002489-86-3	59
4		Naphthalene, 2-(1-methylethenyl)-	168	C13H12	003710-23-4	53
5		1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	49



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF073117\
Data File : BF097218.D
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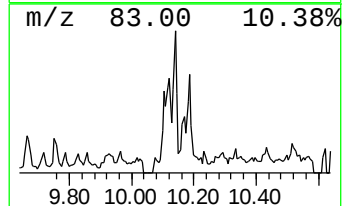
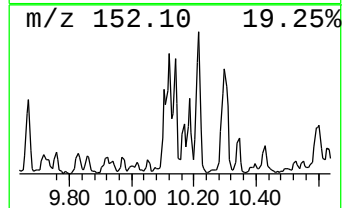
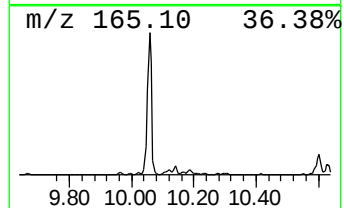
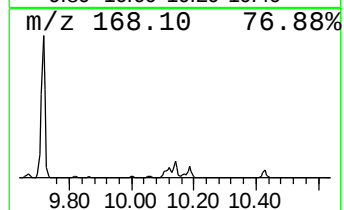
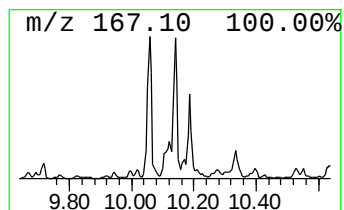
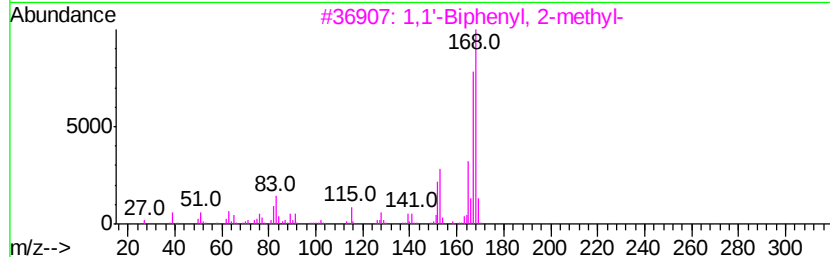
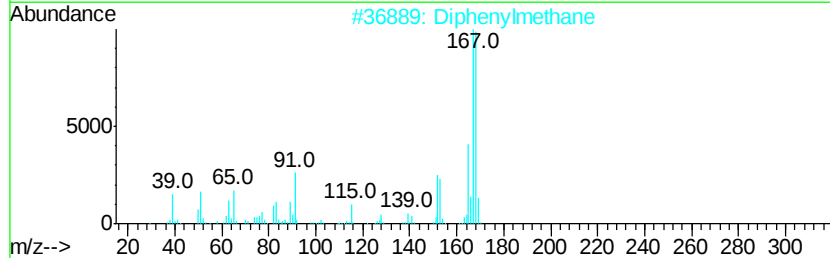
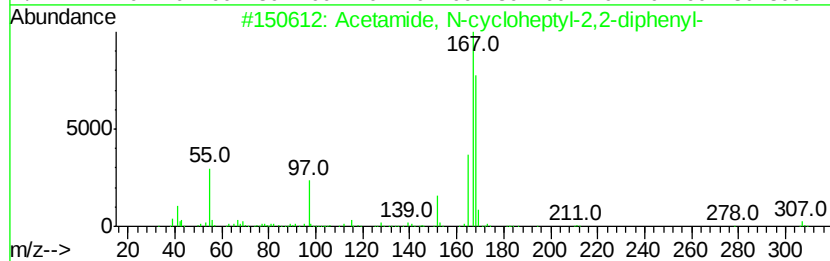
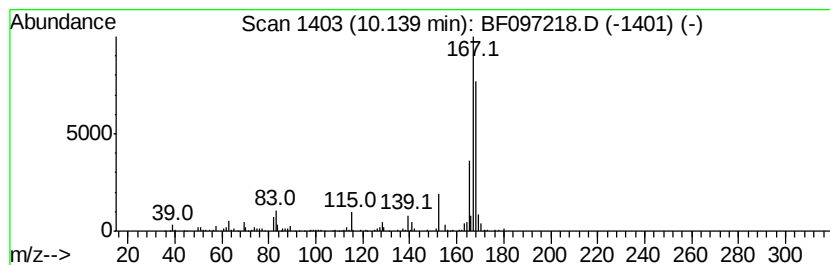
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Acetamide, N-cycloheptyl-2,... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.14	5.58 ng	363568	Acenaphthene-d10	9.51

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Acetamide, N-cvcloheptvl-2,2-dip...	307	C21H25NO	351062-01-6	78
2		Diphenylmethane	168	C13H12	000101-81-5	64
3		1,1'-Biphenyl, 2-methyl-	168	C13H12	000643-58-3	64
4		1,1'-Biphenyl, 4-methyl-	168	C13H12	000644-08-6	58
5		Benzhydryl isothiocyanate	225	C14H11NS	003550-21-8	47



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF073117\
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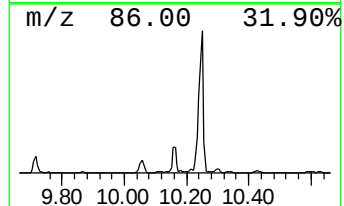
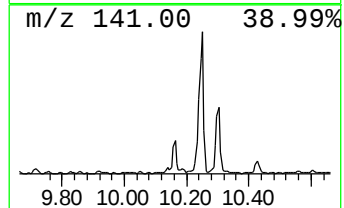
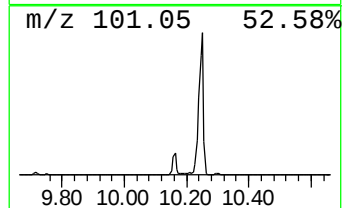
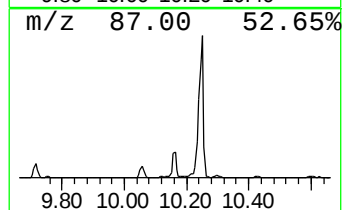
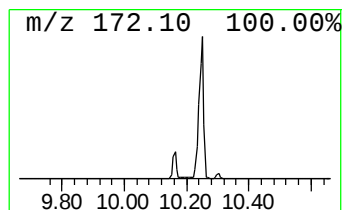
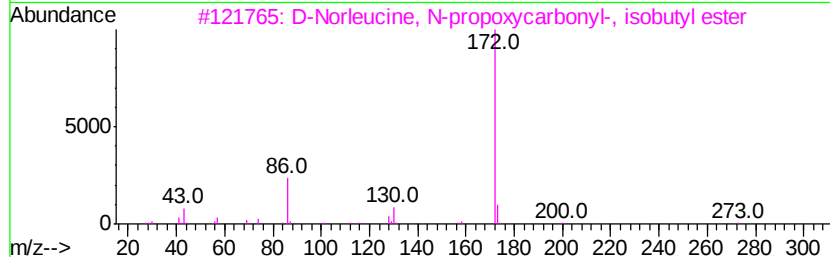
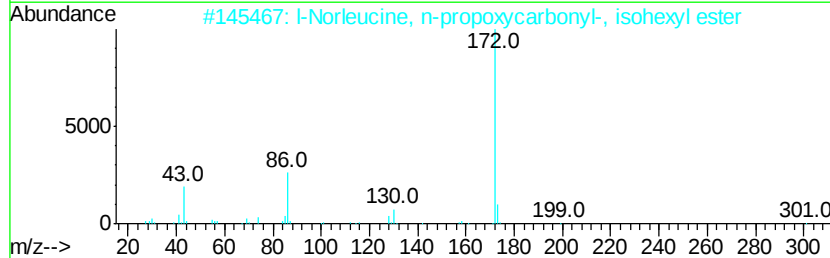
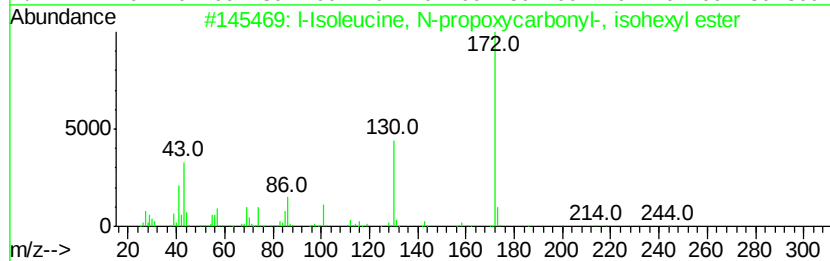
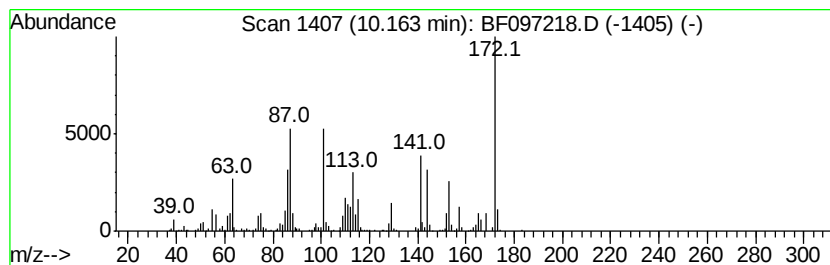
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 unknown10.16 Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.	
10.16	7.86 ng	511574	Acenaphthene-d10	9.51	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	l-Isoleucine, N-propoxycarbonyl-...	301	C16H31N04	1000313-56-6	22
2	l-Norleucine, n-propoxycarbonyl-...	301	C16H31N04	1000329-54-1	22
3	D-Norleucine, N-propoxycarbonyl-...	273	C14H27N04	1000338-42-7	22
4	peri-Naphtho-1,3-dioxin	172	C11H8O2	000204-11-5	22
5	D-Norleucine, N-propoxycarbonyl-...	427	C25H49N04	1000338-43-5	22



Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\
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ALS Vial : 19 Sample Multiplier: 1

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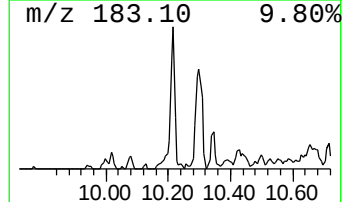
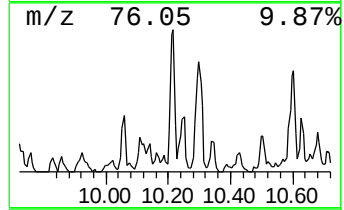
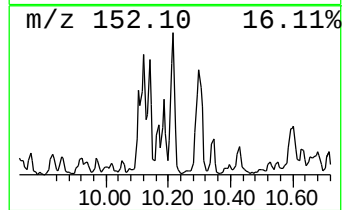
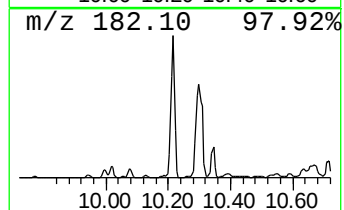
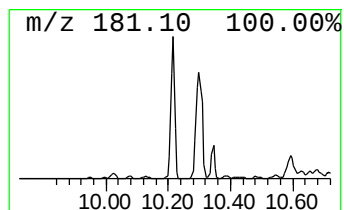
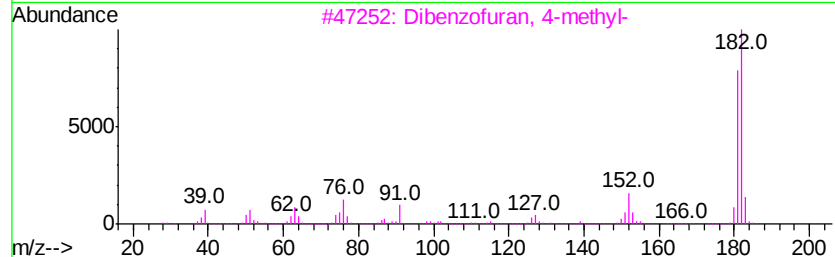
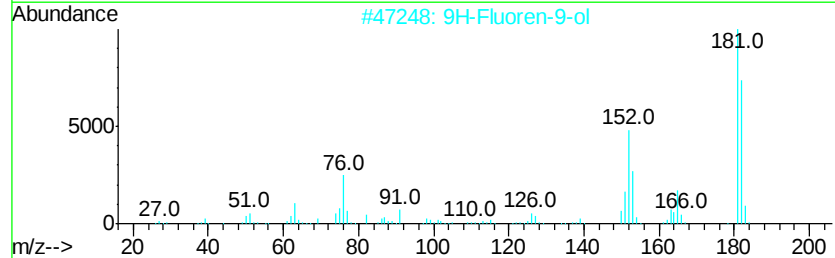
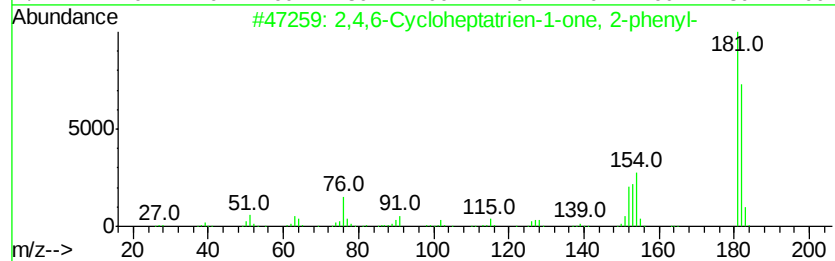
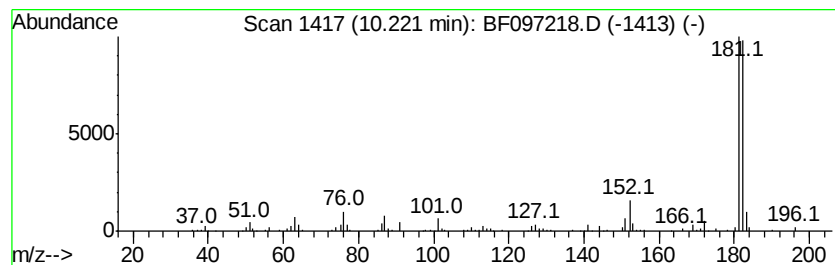
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 2,4,6-Cycloheptatrien-1-one... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.22	7.19 ng	468332	Acenaphthene-d10	9.51

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	87
2		9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78
3		Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	76
4		9H-Xanthene	182	C13H10O	000092-83-1	64
5		2-Hydroxyfluorene	182	C13H10O	002443-58-5	53



Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\
Data File : BF097218.D
Acq On : 31 Jul 2017 20:01
Operator : SJ/JU
Sample : I4456-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-17-SS-8

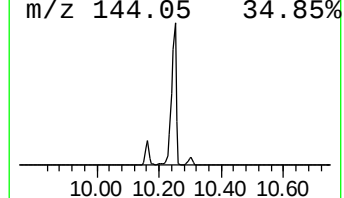
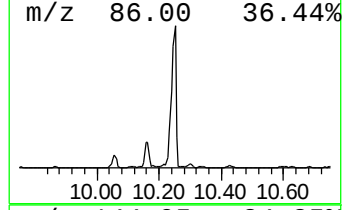
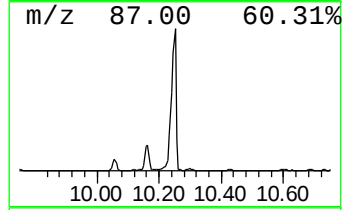
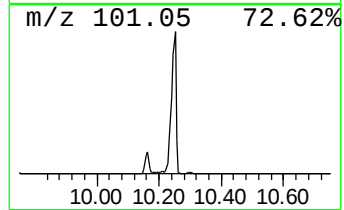
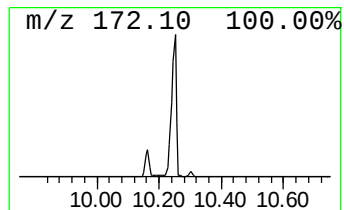
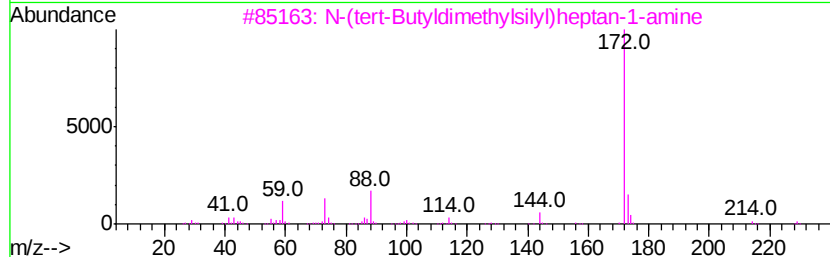
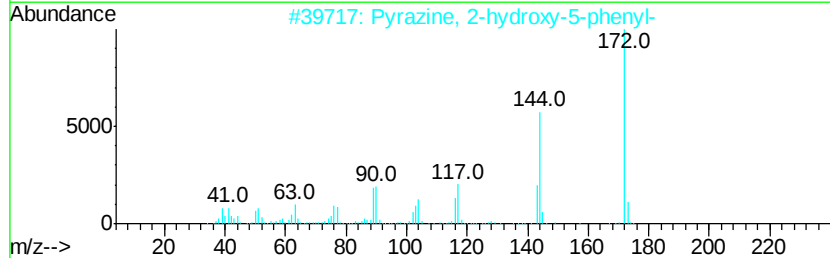
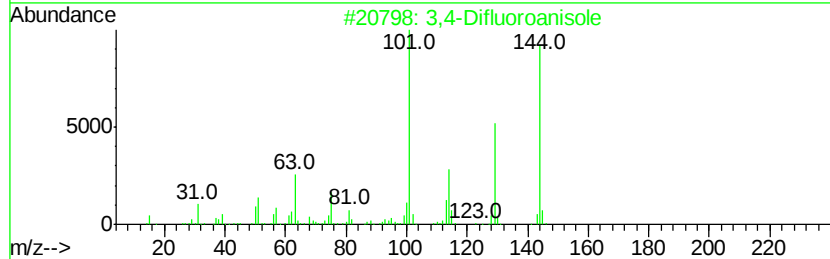
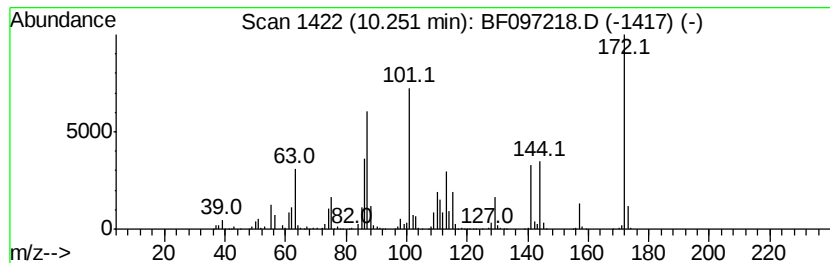
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 unknown10.25 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.25	43.59 ng	2838900	Acenaphthene-d10	9.51

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3,4-Difluoroanisole	144	C7H6F2O	115144-40-6	30
2		Pyrazine, 2-hydroxy-5-phenyl-	172	C10H8N2O	025844-72-8	22
3		N-(tert-Butyldimethylsilyl)hepta...	229	C13H31NSi	1000373-19-1	16
4		1-Chloro-2,4-dimethoxybenzene	172	C8H9ClO2	007051-13-0	16
5		peri-Naphtho-1,3-dioxin	172	C11H8O2	000204-11-5	16



Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\
Data File : BF097218.D
Acq On : 31 Jul 2017 20:01
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Misc :
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ClientSampleId :
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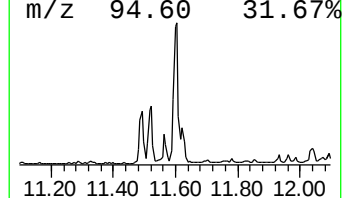
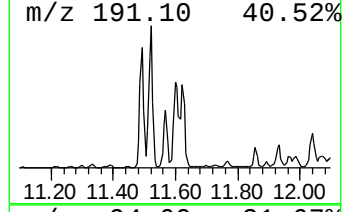
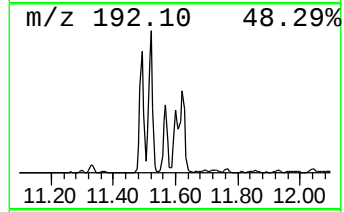
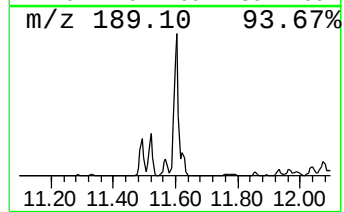
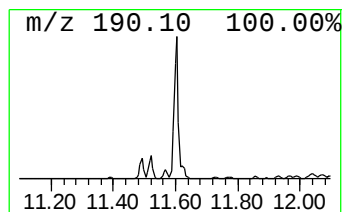
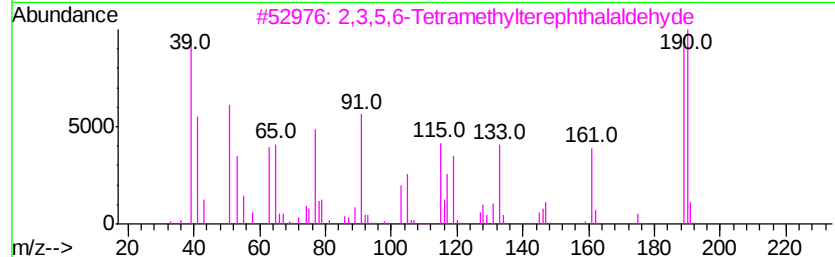
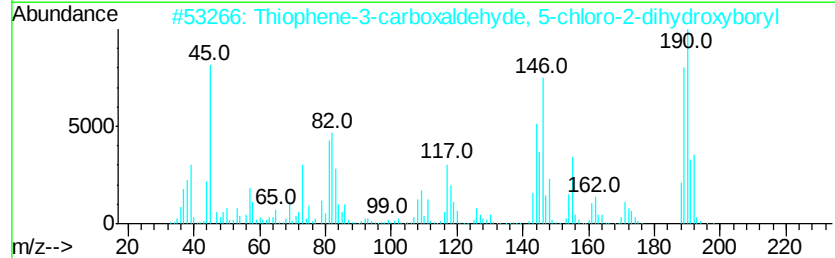
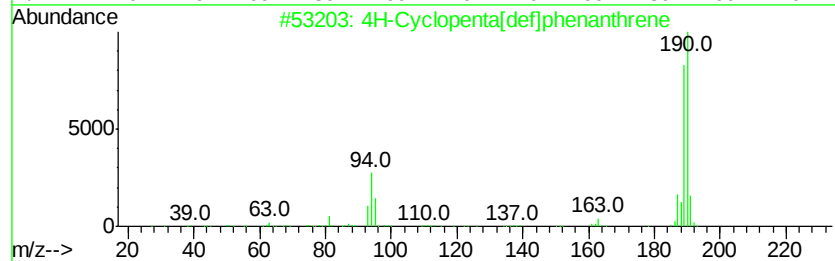
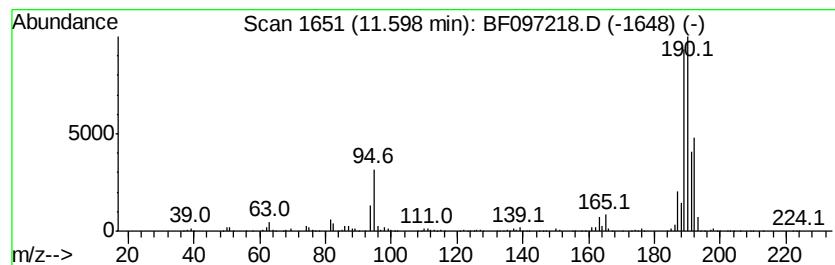
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 4H-Cyclopenta[def]phenanthrene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.60	4.51 ng	1925580	Phenanthrene-d10	10.99

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2			Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	49
3			2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	47
4			Methyl diselenide	190	C2H6Se2	007101-31-7	43
5			2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	38



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF073117\
Data File : BF097218.D
Acq On : 31 Jul 2017 20:01
Operator : SJ/JU
Sample : I4456-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

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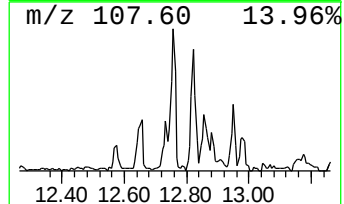
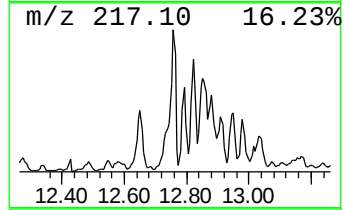
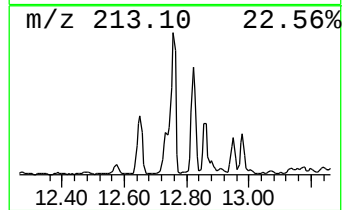
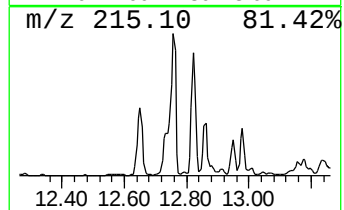
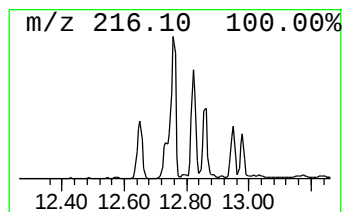
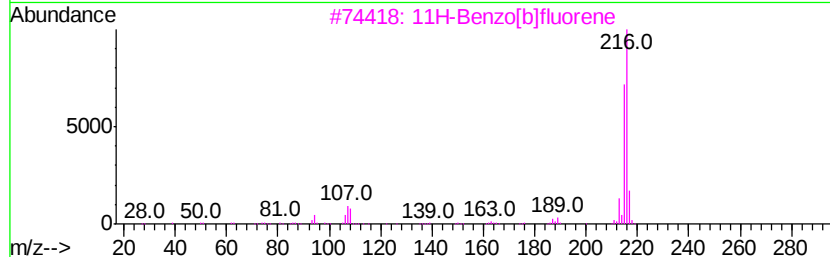
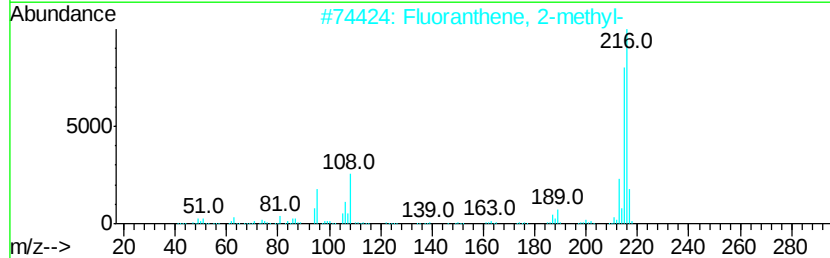
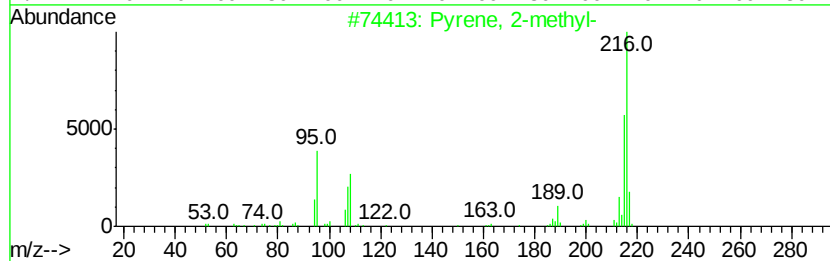
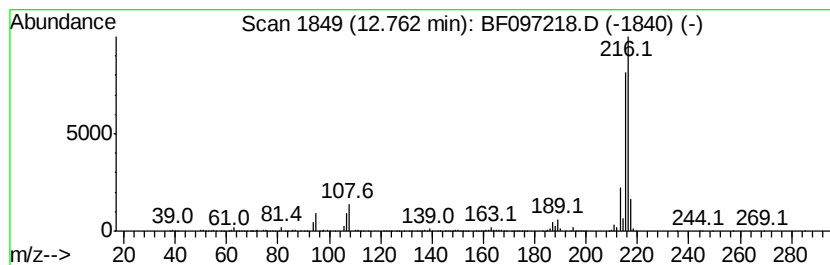
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Pyrene, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.76	8.15 ng	2102940	Chrysene-d12	13.63

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94
2		Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3		11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
4		Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
5		11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF073117\
Data File : BF097218.D
Acq On : 31 Jul 2017 20:01
Operator : SJ/JU
Sample : I4456-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

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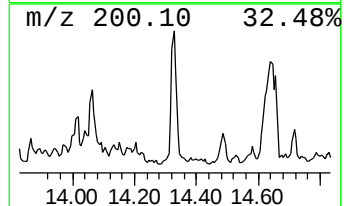
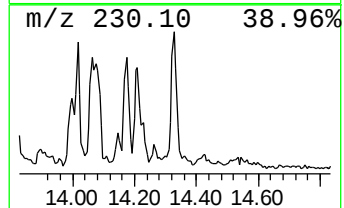
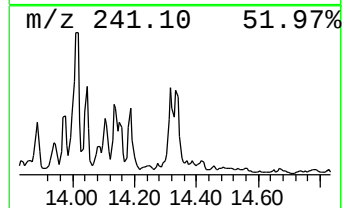
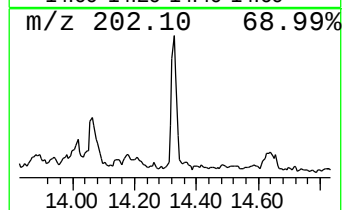
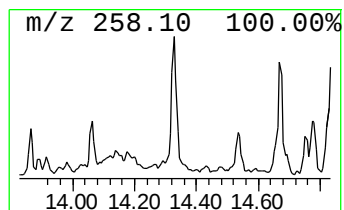
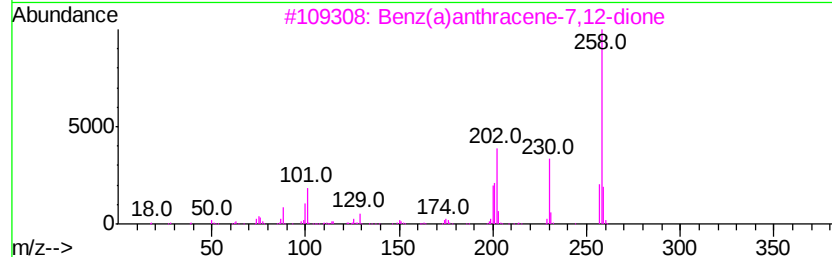
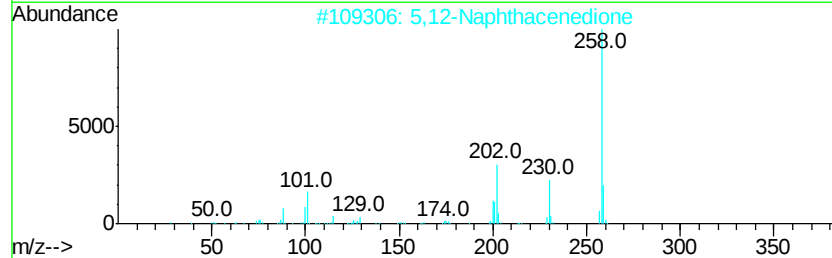
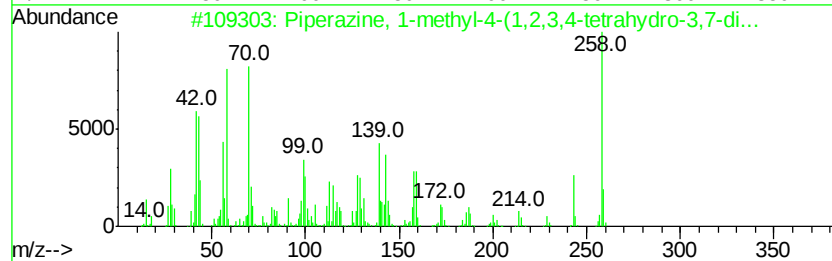
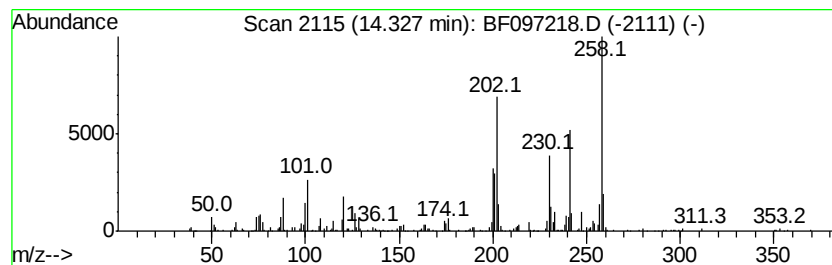
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Piperazine, 1-methyl-4-(1,2... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.33	31.64 ng	605179	Perylene-d12	14.99

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Piperazine, 1-methyl-4-(1,2,3,4-...	258	C17H26N2	055591-14-5	90
2		5,12-Naphthacenedione	258	C18H10O2	001090-13-7	89
3		Benz(a)anthracene-7,12-dione	258	C18H10O2	002498-66-0	49
4		1,8-Anthracenedinitrile, 9,10-di...	258	C16H6N2O2	090866-50-5	30
5		5,7-Dimethyl-6-phenyl-1,3-diazaa...	258	C16H22N2O	1000216-37-9	25



Data Path : Z:\HPCHEM1\BNA F\DATA\BF073117\
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Sample : I4456-12
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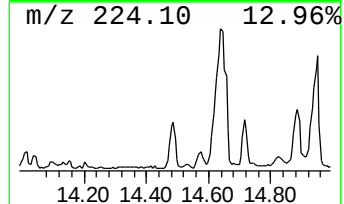
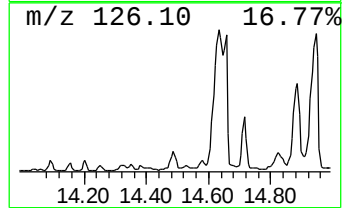
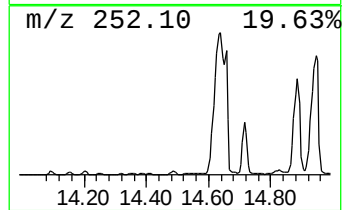
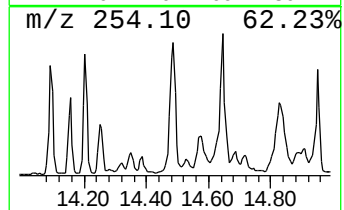
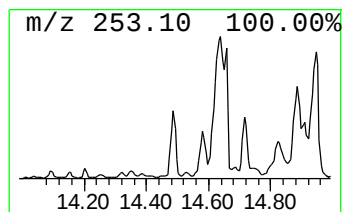
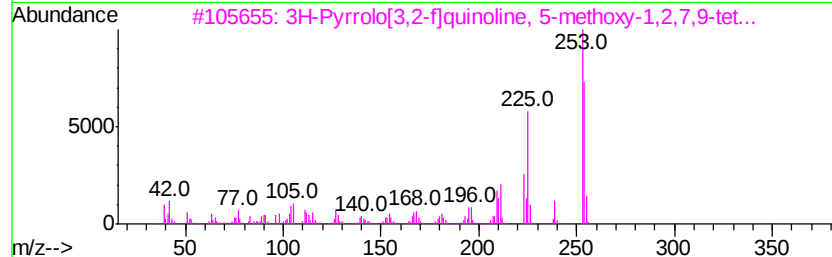
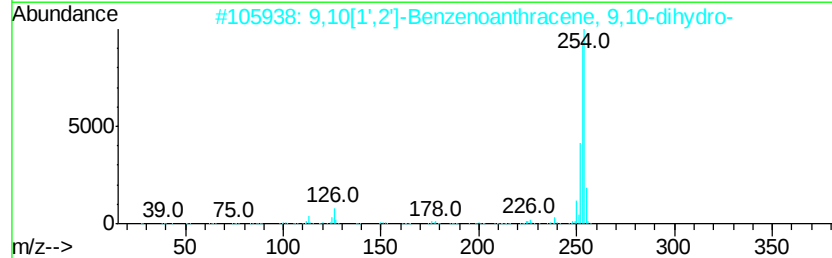
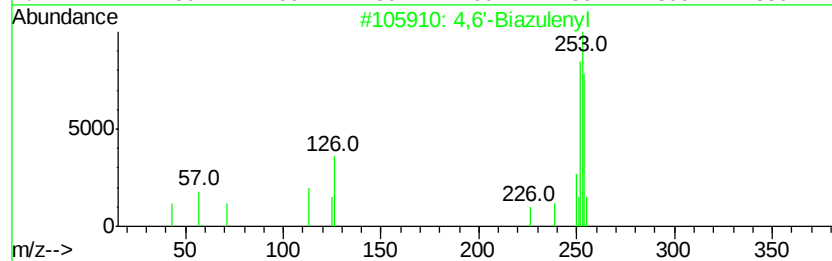
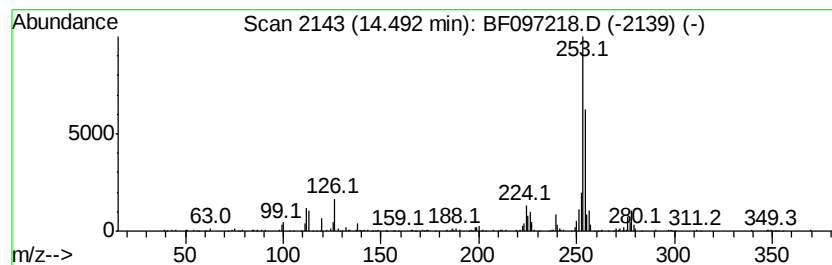
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 4,6'-Biazulenyl Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.49	19.03 ng	363955	Perylene-d12	14.99
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	4,6'-Biazulenyl	254	C20H14	094154-49-1 68
2	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8 64
3	3H-Pyrrolo[3,2-f]quinoline, 5-me...	254	C16H18N2O	1000350-44-1 62
4	1,1'-Binaphthalene	254	C20H14	000604-53-5 60
5	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9 58



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF073117\
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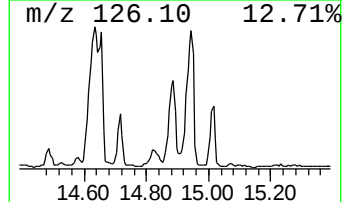
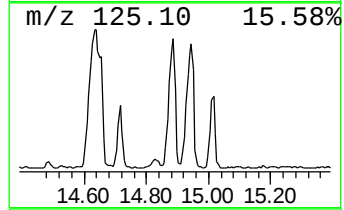
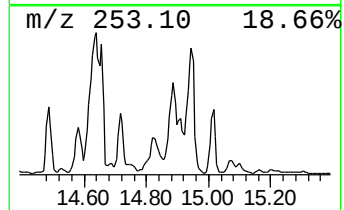
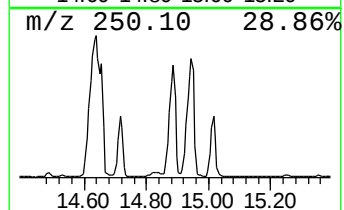
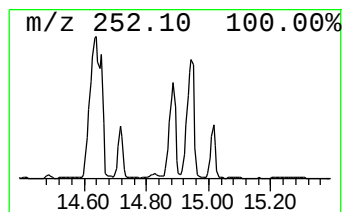
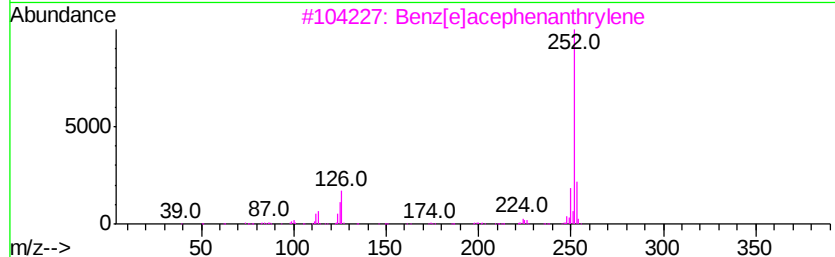
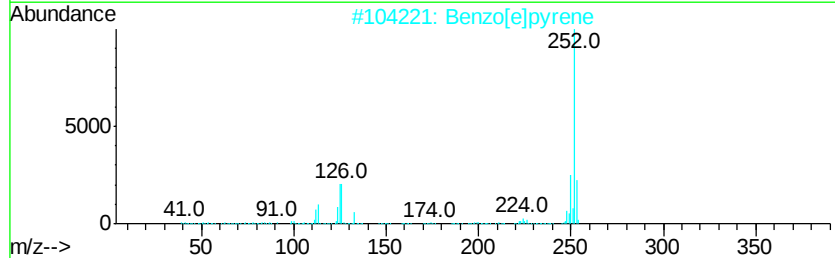
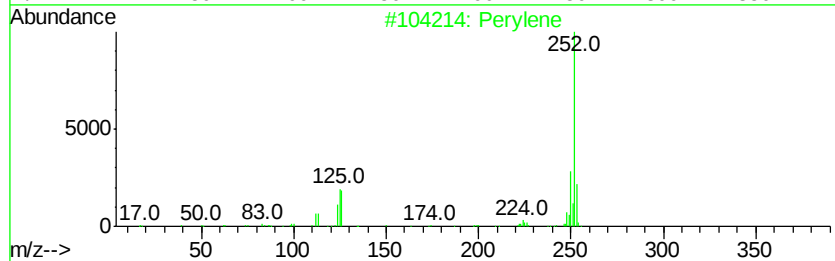
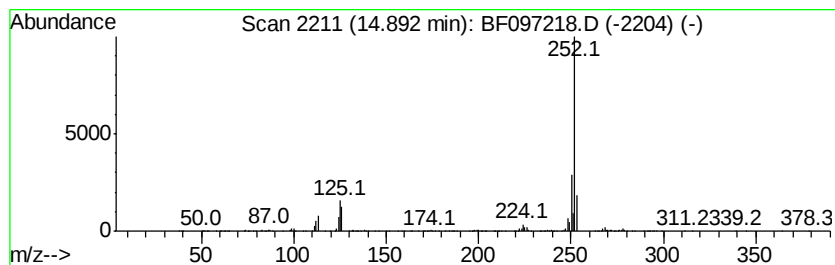
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 18 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.89	105.40 ng	2015790	Perylene-d12	14.99

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Perylene	252	C20H12	000198-55-0	99
2		Benzo[e]pyrene	252	C20H12	000192-97-2	98
3		Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	96
4		Benzo[a]pyrene	252	C20H12	000050-32-8	94
5		Benzo[k]fluoranthene	252	C20H12	000207-08-9	90



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF073117\
Data File : BF097218.D
Acq On : 31 Jul 2017 20:01
Operator : SJ/JU
Sample : I4456-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-17-SS-8

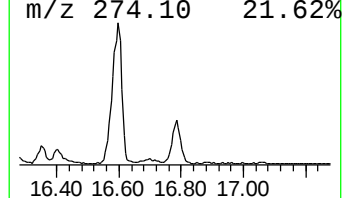
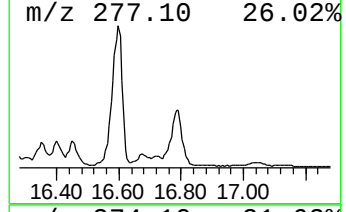
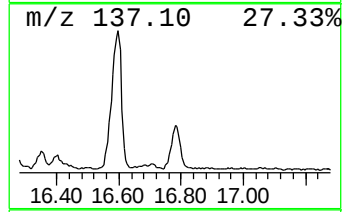
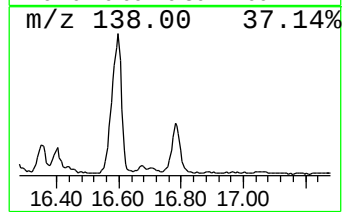
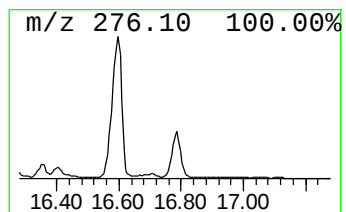
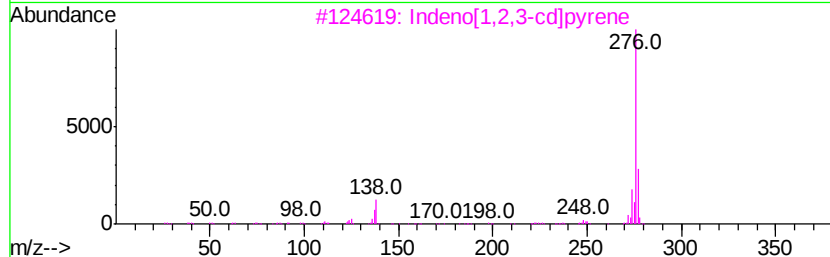
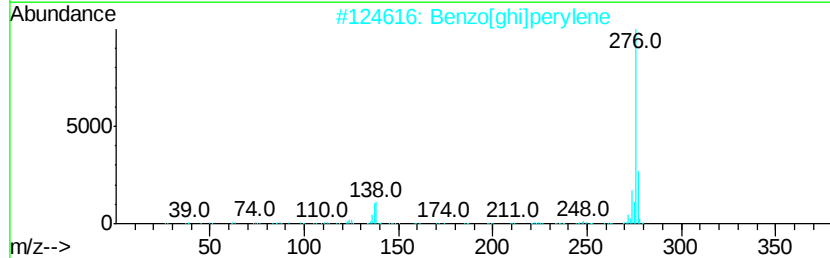
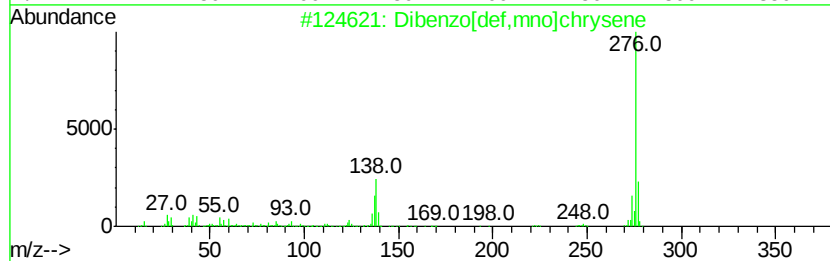
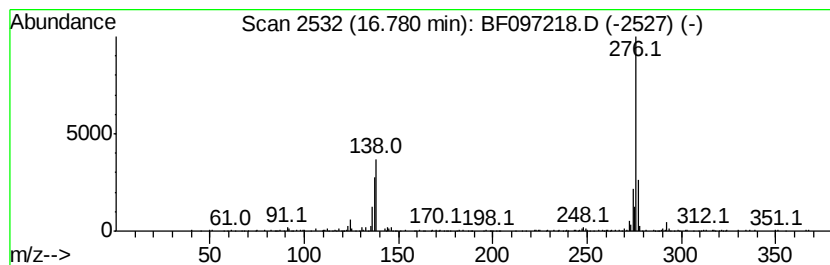
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Dibenzo[def,mno]chrysene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.78	34.51 ng	660092	Perylene-d12	14.99

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	94
2		Benzo[ghi]perylene	276	C22H12	000191-24-2	91
3		Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	86
4		Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	74
5		Naphthalen-1-yl-(3-nitro-benzyl)...	276	C17H12N2O2	200421-53-0	43



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF073117\
Data File : BF097218.D
Acq On : 31 Jul 2017 20:01
Operator : SJ/JU
Sample : I4456-12
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-17-SS-8

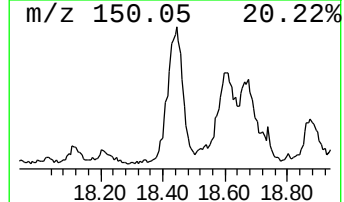
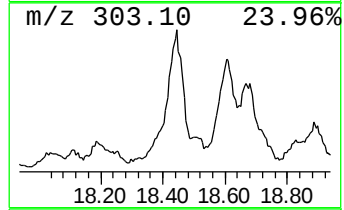
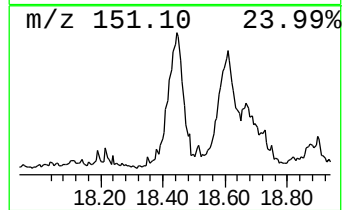
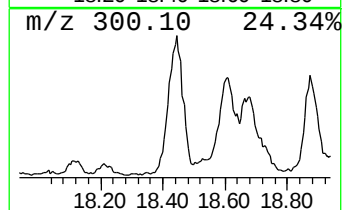
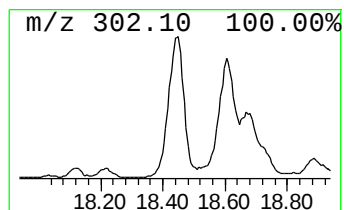
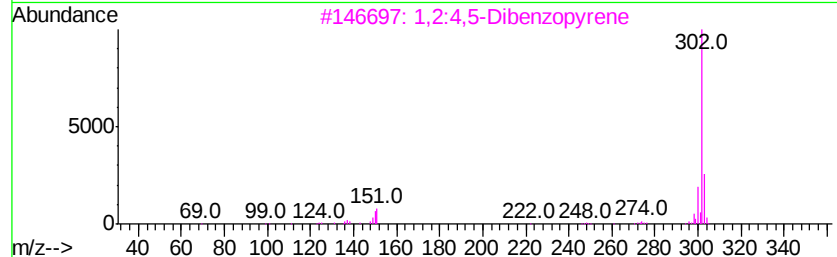
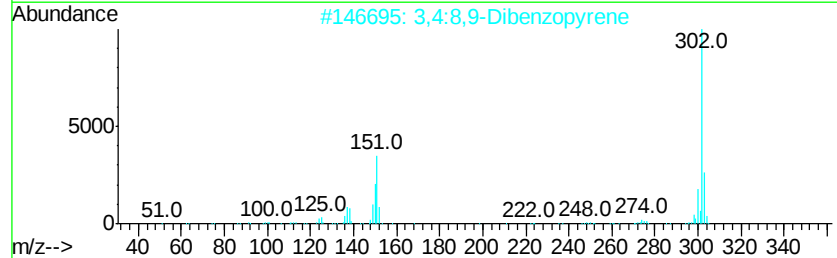
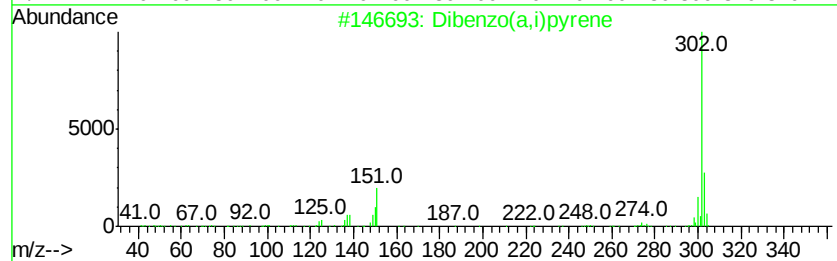
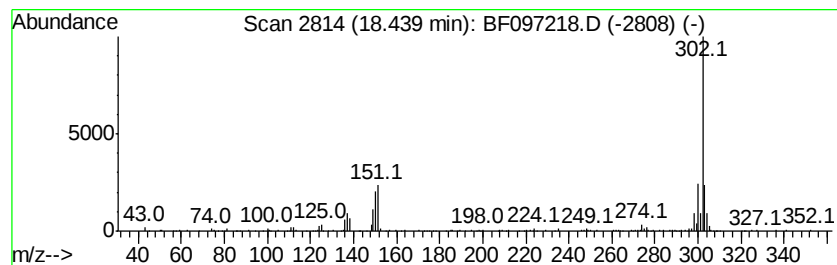
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Dibenzo(a,i)pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.44	41.05 ng	785185	Perylene-d12	14.99

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzo(a,i)pyrene	302	C24H14	000189-55-9	95
2		3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	95
3		1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	95
4		Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	94
5		Indeno[1,2,3-fg]naphthacene	302	C24H14	000203-11-2	89



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF073117\
 Data File : BF097218.D
 Acq On : 31 Jul 2017 20:01
 Operator : SJ/JU
 Sample : I4456-12
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-17-SS-8

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.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...	4.62	8.6	ng	305237	1	6.48	712547	20.0
unknown6.26	6.26	72.8	ng	2592100	1	6.48	712547	20.0
D-Limonene	6.60	7.8	ng	277193	1	6.48	712547	20.0
Naphthalene, 1-me...	8.57	5.3	ng	1035000	2	7.76	3937370	20.0
Naphthalene, 2,6-...	9.10	7.9	ng	512766	3	9.51	1302420	20.0
Naphthalene, 2,3-...	9.17	8.7	ng	565331	3	9.51	1302420	20.0
1-Isopropenyl naph...	10.12	6.1	ng	396040	3	9.51	1302420	20.0
Acetamide, N-cycl...	10.14	5.6	ng	363568	3	9.51	1302420	20.0
unknown10.16	10.16	7.9	ng	511574	3	9.51	1302420	20.0
2,4,6-Cycloheptat...	10.22	7.2	ng	468332	3	9.51	1302420	20.0
unknown10.25	10.25	43.6	ng	2838900	3	9.51	1302420	20.0
4H-Cyclopenta[def...	11.60	4.5	ng	1925580	4	10.99	8543710	20.0
Pyrene, 2-methyl-	12.76	8.2	ng	2102940	5	13.63	5160580	20.0
Piperazine, 1-met...	14.33	31.6	ng	605179	6	14.99	382510	20.0
4,6'-Biazulenyl	14.49	19.0	ng	363955	6	14.99	382510	20.0
Perylene	14.89	105.4	ng	2015790	6	14.99	382510	20.0
Dibenzo[def,mno]c...	16.78	34.5	ng	660092	6	14.99	382510	20.0
Dibenzo(a,i)pyrene	18.44	41.0	ng	785185	6	14.99	382510	20.0