

Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
 Data File : BF101987.D
 Acq On : 10 Jan 2018 19:03
 Operator : SJ/JU
 Sample : J1076-04 50X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-12R12-01

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-BF010918.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.693	265	273	280	rBV	302080	448544	9.59%	0.908%
2	5.187	522	527	531	rBV	379070	345021	7.37%	0.699%
3	5.298	542	546	553	rVB	459331	598273	12.79%	1.212%
4	5.557	583	590	595	rBV2	395995	547768	11.71%	1.109%
5	6.251	705	708	711	rBV	326545	258456	5.52%	0.523%
6	6.281	711	713	716	rVB	211935	159014	3.40%	0.322%
7	6.328	716	721	723	rBV	206453	173420	3.71%	0.351%
8	6.551	756	759	765	rBV2	804936	880974	18.83%	1.784%
9	6.598	765	767	772	rVB	111624	90532	1.94%	0.183%
10	6.728	785	789	792	rBV	1687687	1401787	29.96%	2.839%
11	6.781	796	798	801	rVV	205814	161405	3.45%	0.327%
12	6.904	816	819	823	rVB	491386	389902	8.33%	0.790%
13	6.987	829	833	836	rBV	1510631	1247636	26.67%	2.527%
14	7.045	839	843	845	rBV	115036	99283	2.12%	0.201%
15	7.263	876	880	882	rBV	160044	135337	2.89%	0.274%
16	7.340	888	893	897	rVV2	128990	194945	4.17%	0.395%
17	7.522	922	924	928	rVB	145956	125104	2.67%	0.253%
18	7.757	956	964	967	rBV3	374429	530532	11.34%	1.074%
19	7.792	967	970	975	rVB	291610	380983	8.14%	0.772%
20	7.951	993	997	1000	rVV	277840	258921	5.53%	0.524%
21	8.010	1001	1007	1009	rVV	2060888	2507690	53.60%	5.078%
22	8.034	1009	1011	1014	rVV	5403553	4678426	100.00%	9.474%
23	8.081	1014	1019	1024	rVB2	312123	317307	6.78%	0.643%
24	8.434	1076	1079	1083	rBV2	91125	126251	2.70%	0.256%
25	8.604	1104	1108	1111	rVV2	198900	175081	3.74%	0.355%
26	8.722	1123	1128	1131	rVB	2928483	2279645	48.73%	4.616%
27	8.775	1133	1137	1140	rVV	213679	184183	3.94%	0.373%
28	8.822	1140	1145	1148	rVB	1910802	1559078	33.32%	3.157%
29	9.186	1199	1207	1210	rBV2	386291	460370	9.84%	0.932%
30	9.251	1214	1218	1221	rBV2	252732	278703	5.96%	0.564%
31	9.281	1221	1223	1228	rVB	298528	290695	6.21%	0.589%
32	9.351	1228	1235	1238	rBV	526018	688120	14.71%	1.394%
33	9.381	1238	1240	1243	rBV2	152431	139350	2.98%	0.282%
34	9.422	1243	1247	1249	rBV	741361	708193	15.14%	1.434%

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 Integrator: RTE
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Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	9.445	1249	1251	1255	rVB	453484	351816	7.52%	0.712%
36	9.486	1255	1258	1261	rVB	303886	250923	5.36%	0.508%
37	9.539	1264	1267	1268	rBV	305979	257561	5.51%	0.522%
38	9.622	1276	1281	1284	rBV	1147600	928892	19.85%	1.881%
39	9.698	1291	1294	1296	rVB2	131214	104904	2.24%	0.212%
40	9.763	1296	1305	1308	rBV	2164060	2159277	46.15%	4.373%
41	9.792	1308	1310	1314	rVB2	545091	454437	9.71%	0.920%
42	9.869	1320	1323	1327	rVB3	104780	124189	2.65%	0.251%
43	9.939	1331	1335	1336	rVV2	86588	94802	2.03%	0.192%
44	9.963	1336	1339	1343	rVB	530174	456360	9.75%	0.924%
45	10.004	1343	1346	1348	rBV	180273	143316	3.06%	0.290%
46	10.075	1354	1358	1361	rBV2	174374	228366	4.88%	0.462%
47	10.104	1361	1363	1365	rVV	129912	93163	1.99%	0.189%
48	10.169	1369	1374	1375	rBV4	98635	136089	2.91%	0.276%
49	10.198	1375	1379	1380	rVV2	103497	139675	2.99%	0.283%
50	10.210	1380	1381	1384	rVB	162558	114935	2.46%	0.233%
51	10.257	1384	1389	1391	rBV5	59097	92500	1.98%	0.187%
52	10.304	1394	1397	1404	rVB	977558	977603	20.90%	1.980%
53	10.369	1404	1408	1410	rBV2	88103	113200	2.42%	0.229%
54	10.416	1413	1416	1421	rVB2	142299	128865	2.75%	0.261%
55	10.463	1421	1424	1427	rBV	135776	124708	2.67%	0.253%
56	10.528	1432	1435	1437	rBV	231190	217144	4.64%	0.440%
57	10.669	1456	1459	1463	rBV	192346	211287	4.52%	0.428%
58	10.851	1485	1490	1493	rBV2	198134	249807	5.34%	0.506%
59	10.880	1493	1495	1498	rVV	139608	105146	2.25%	0.213%
60	10.933	1501	1504	1508	rBV2	109906	109907	2.35%	0.223%
61	11.139	1536	1539	1546	rVB	495919	463088	9.90%	0.938%
62	11.245	1553	1557	1559	rBV	1904701	1768501	37.80%	3.581%
63	11.269	1559	1561	1564	rVV	3079820	2385893	51.00%	4.832%
64	11.316	1566	1569	1572	rVV	835452	682090	14.58%	1.381%
65	11.475	1593	1596	1598	rBV	131800	95028	2.03%	0.192%
66	11.539	1604	1607	1610	rBV	166153	140525	3.00%	0.285%
67	11.575	1610	1613	1618	rVB2	177411	171850	3.67%	0.348%
68	11.657	1624	1627	1631	rVB	156176	165978	3.55%	0.336%
69	11.745	1638	1642	1644	rVV	468055	454181	9.71%	0.920%
70	11.769	1644	1646	1651	rVB	511101	465029	9.94%	0.942%
71	11.816	1651	1654	1657	rBV	184763	174491	3.73%	0.353%

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 Smoothing : ON Filtering: 5
 Sampling : 1 Min Area: 3 % of largest Peak
 Start Thrs: 0.2 Max Peaks: 100
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72	11.857	1657	1661	1663	rVV	639343	725480	15.51%	1.469%
73	11.875	1663	1664	1670	rVB	314059	221334	4.73%	0.448%
74	12.039	1689	1692	1694	rBV	251155	208864	4.46%	0.423%
75	12.292	1729	1735	1738	rBV	244958	287967	6.16%	0.583%
76	12.327	1738	1741	1747	rVB2	145804	253925	5.43%	0.514%
77	12.374	1747	1749	1754	rBV3	72323	113285	2.42%	0.229%
78	12.451	1758	1762	1766	rBV	1465738	1263054	27.00%	2.558%
79	12.545	1775	1778	1781	rVB	300609	253166	5.41%	0.513%
80	12.604	1785	1788	1795	rVB2	104179	145398	3.11%	0.294%
81	12.680	1795	1801	1804	rBV	1492453	1423871	30.43%	2.883%
82	12.833	1823	1827	1833	rVB7	60924	120281	2.57%	0.244%
83	12.898	1833	1838	1841	rBV4	113960	173276	3.70%	0.351%
84	12.986	1849	1853	1854	rBV2	88217	110692	2.37%	0.224%
85	13.004	1854	1856	1860	rVB	267190	265607	5.68%	0.538%
86	13.074	1865	1868	1871	rVV	237422	210956	4.51%	0.427%
87	13.110	1871	1874	1878	rVV2	158730	146295	3.13%	0.296%
88	13.198	1887	1889	1892	rVB	117708	112487	2.40%	0.228%
89	13.233	1892	1895	1899	rVB	133232	127451	2.72%	0.258%
90	13.621	1955	1961	1964	rBV2	107743	150855	3.22%	0.305%
91	13.874	1999	2004	2006	rBV2	1317616	1578375	33.74%	3.196%
92	13.898	2006	2008	2014	rVB	414572	405275	8.66%	0.821%
93	14.263	2065	2070	2073	rVB	98342	101792	2.18%	0.206%
94	14.886	2172	2176	2179	rBV	292845	439862	9.40%	0.891%
95	14.986	2189	2193	2197	rVB2	103638	135324	2.89%	0.274%
96	15.174	2221	2225	2229	rVB	208617	231796	4.95%	0.469%
97	15.233	2231	2235	2240	rVB	349323	394575	8.43%	0.799%
98	15.298	2240	2246	2249	rBV	840774	1121070	23.96%	2.270%
99	16.662	2473	2478	2486	rVB2	145931	275604	5.89%	0.558%
100	17.074	2543	2548	2556	rVB	123863	226179	4.83%	0.458%

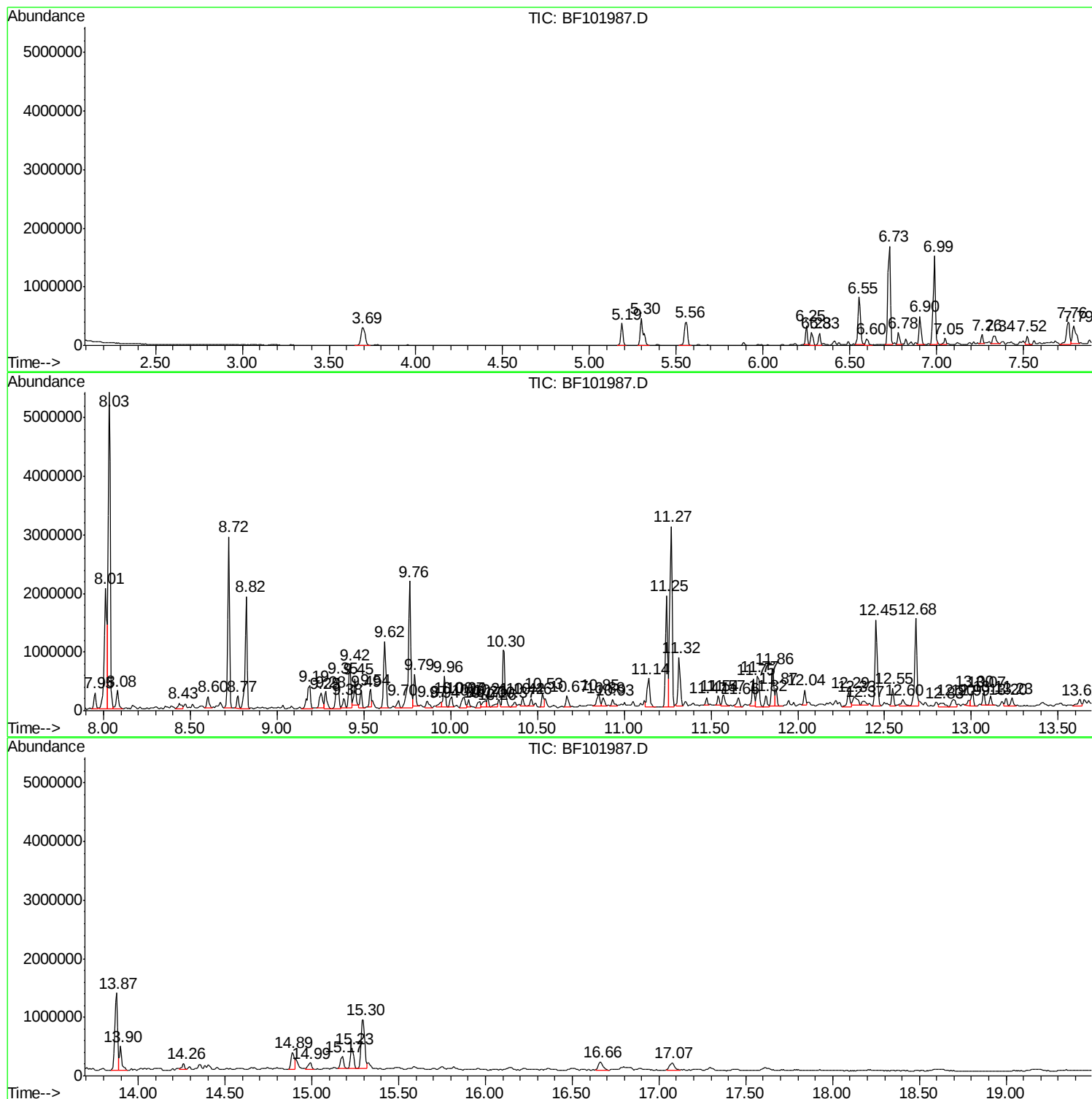
Sum of corrected areas: 49380551

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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.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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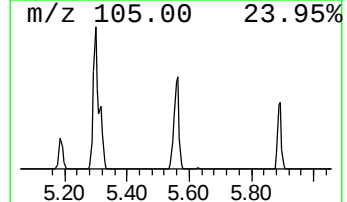
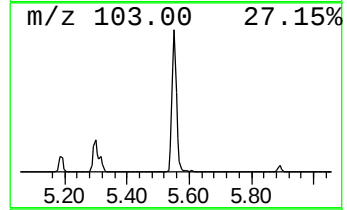
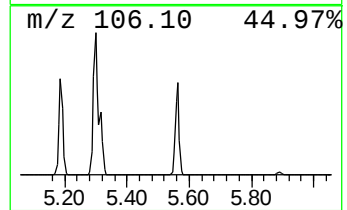
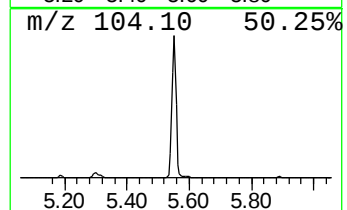
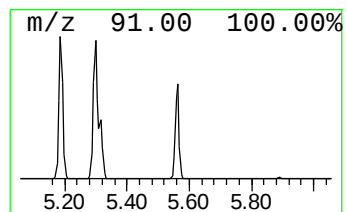
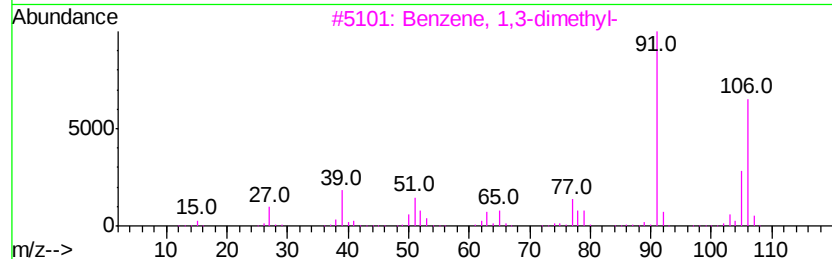
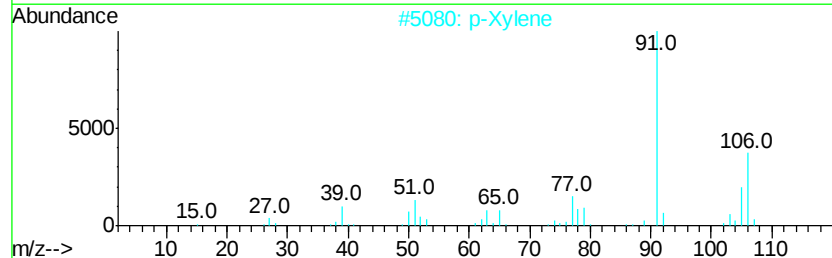
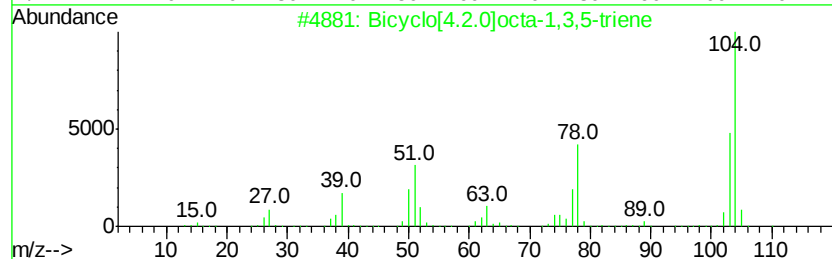
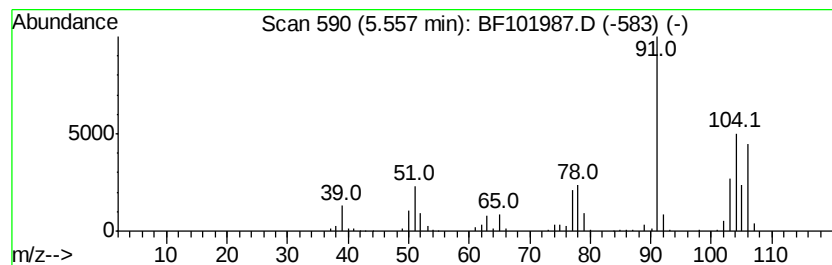
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Bicyclo[4.2.0]octa-1,3,5-tr... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.56	7.82 ng	547768	1,4-Dichlorobenzene-d4	6.73

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Bicyclo[4.2.0]octa-1,3,5-triene	104	C8H8	000694-87-1	70
2		p-Xylene	106	C8H10	000106-42-3	60
3		Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	58
4		1,3,5,7-Cyclooctatetraene	104	C8H8	000629-20-9	55
5		o-Xylene	106	C8H10	000095-47-6	52



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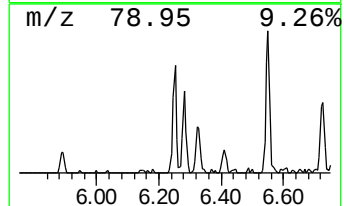
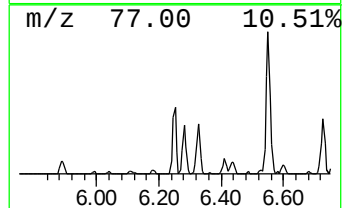
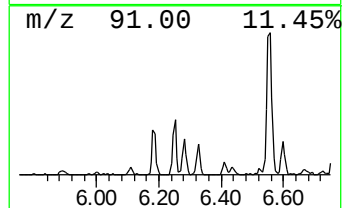
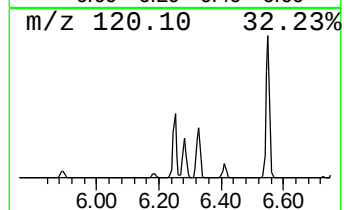
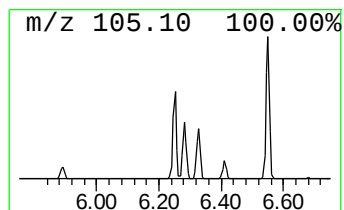
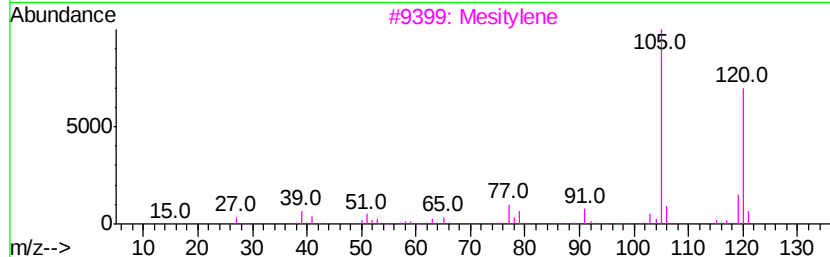
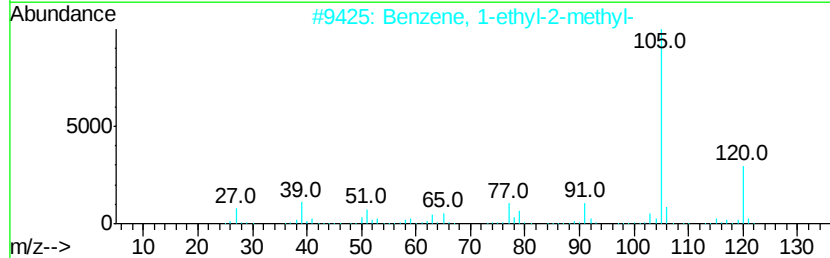
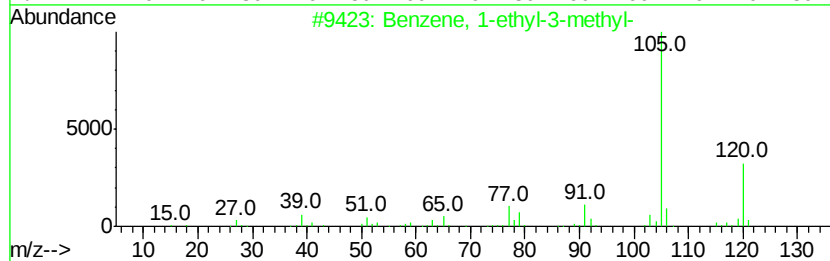
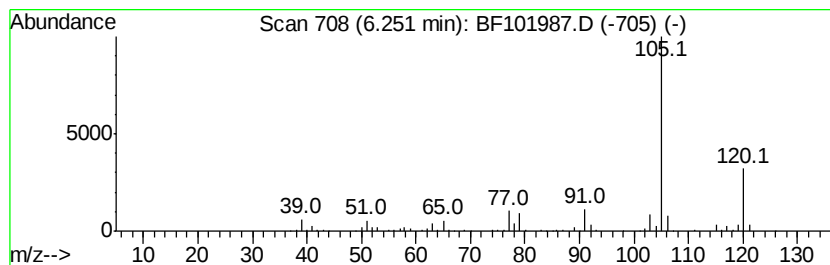
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Benzene, 1-ethyl-3-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.25	3.69 ng	258456	1,4-Dichlorobenzene-d4	6.73

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	97
2		Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
3		Mesitylene	120	C9H12	000108-67-8	91
4		Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
5		Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91



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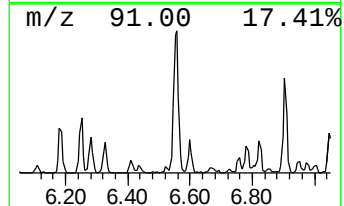
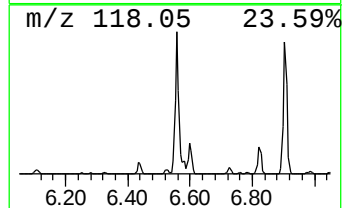
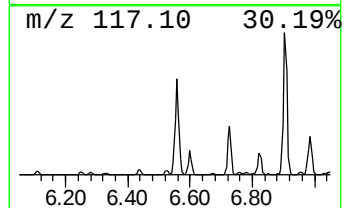
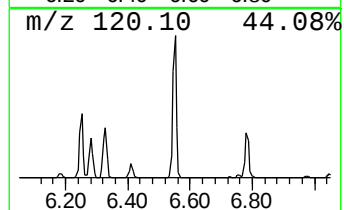
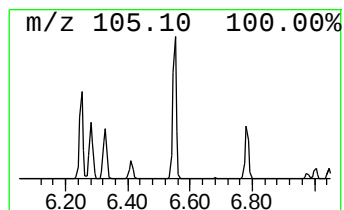
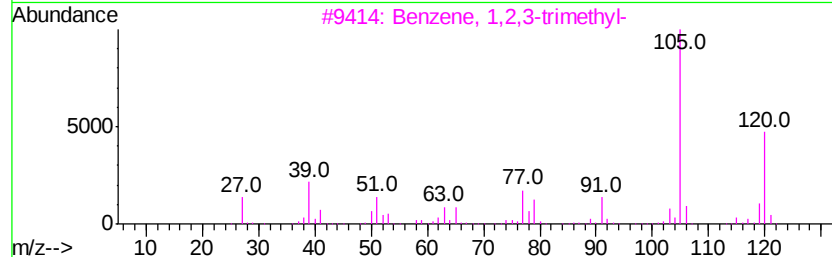
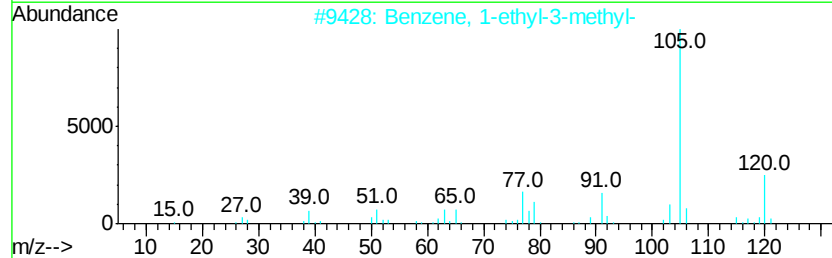
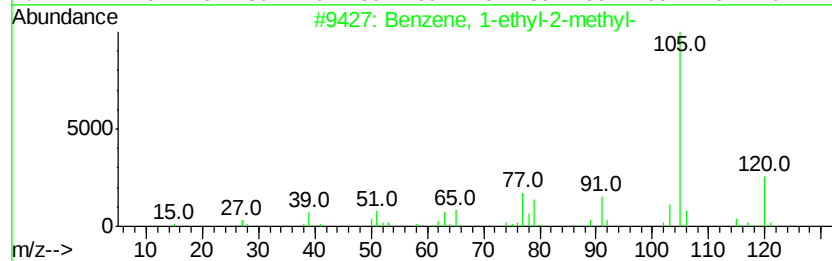
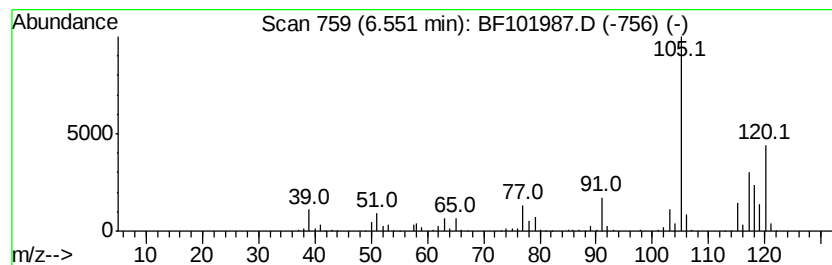
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 Benzene, 1-ethyl-2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.55	12.57 ng	880974	1,4-Dichlorobenzene-d4	6.73

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	90
2			Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	90
3			Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	64
4			Mesitylene	120	C9H12	000108-67-8	64
5			Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	60



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Data File : BF101987.D
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Operator : SJ/JU
Sample : J1076-04 50X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
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ClientSampleId :
WC-12R12-01

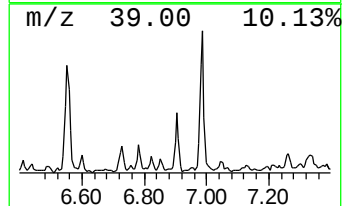
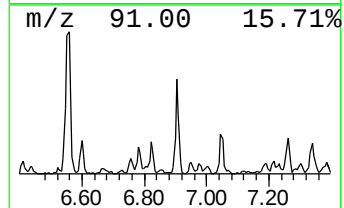
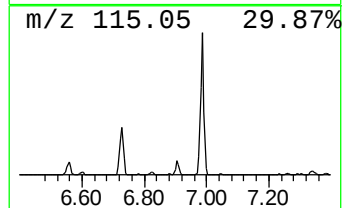
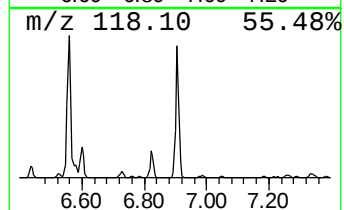
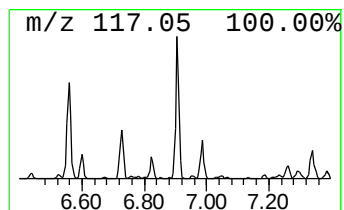
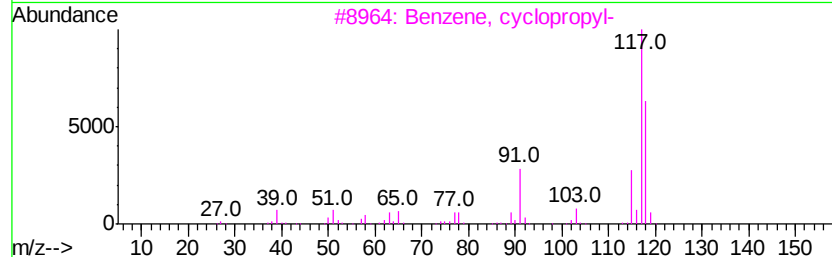
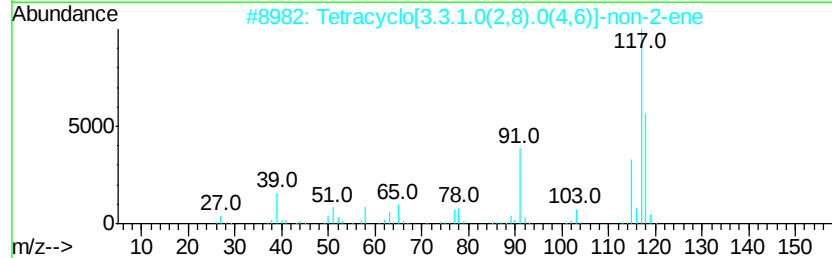
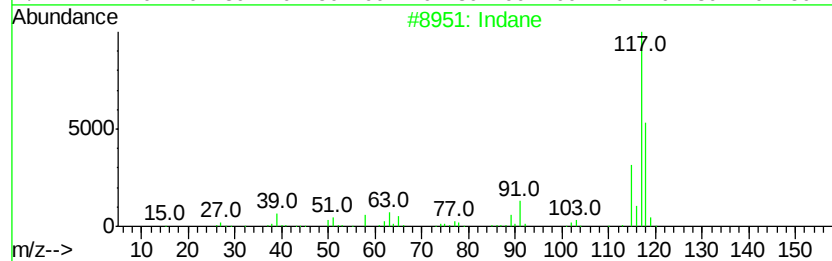
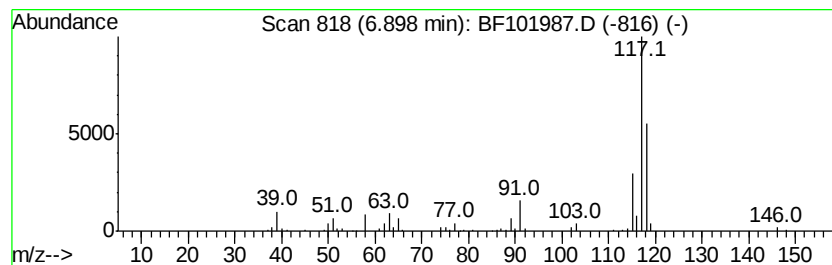
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Indane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.90	5.56 ng	389902	1,4-Dichlorobenzene-d4	6.73

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indane		118	C9H10	000496-11-7	93
2	Tetracyclo[3.3.1.0(2,8).0(4,6)]-	...	118	C9H10	1000191-13-7	87
3	Benzene, cyclopropyl-		118	C9H10	000873-49-4	83
4	Benzene, 2-propenyl-		118	C9H10	000300-57-2	83
5	Deltacyclene		118	C9H10	007785-10-6	80



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
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Operator : SJ/JU
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Instrument :
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ClientSampleId :
WC-12R12-01

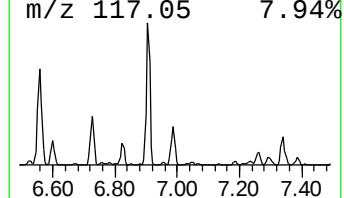
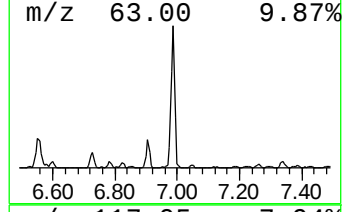
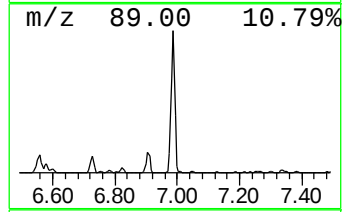
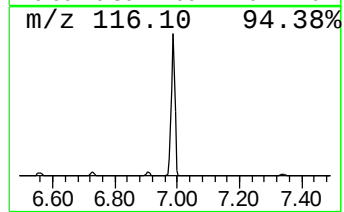
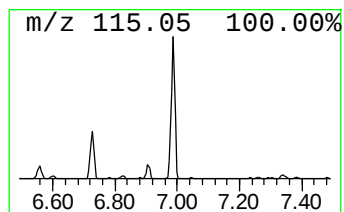
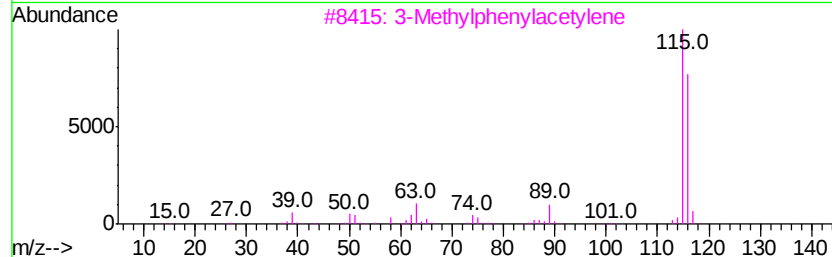
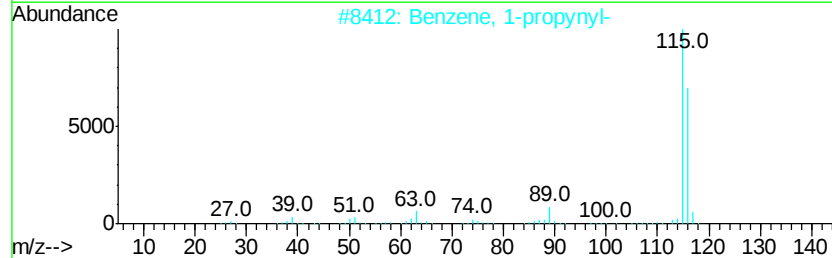
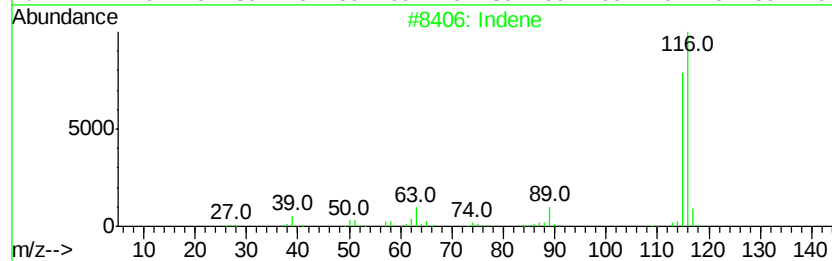
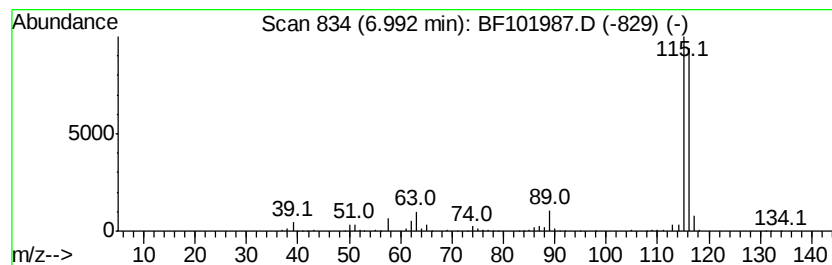
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 Indene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.99	17.80 ng	1247640	1,4-Dichlorobenzene-d4	6.73

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Indene	116	C9H8	000095-13-6	97
2		Benzene, 1-propynyl-	116	C9H8	000673-32-5	94
3		3-Methylphenylacetylene	116	C9H8	000766-82-5	91
4		2-Methylphenylacetylene	116	C9H8	000766-47-2	91
5		Benzene, 1-ethynyl-4-methyl-	116	C9H8	000766-97-2	90



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101987.D
Acq On : 10 Jan 2018 19:03
Operator : SJ/JU
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Misc :
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Instrument :
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ClientSampleId :
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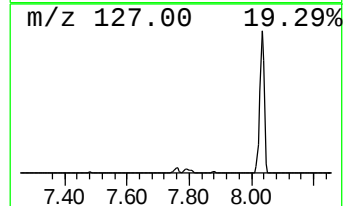
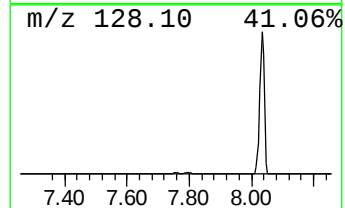
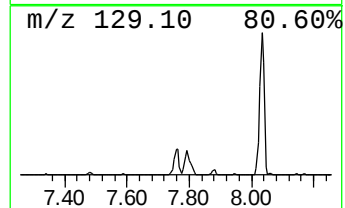
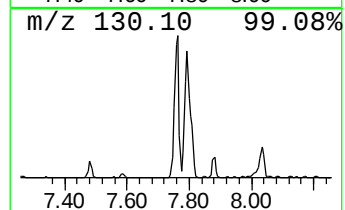
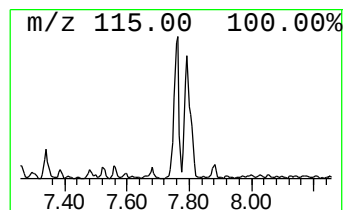
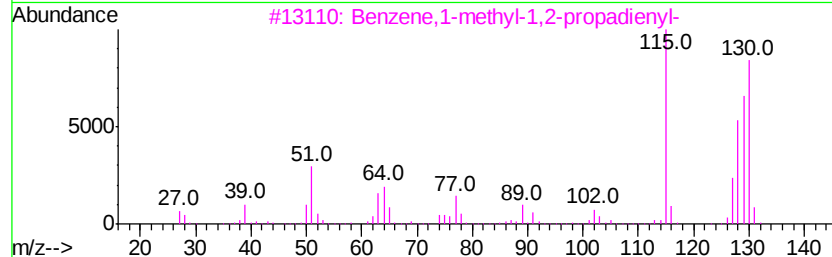
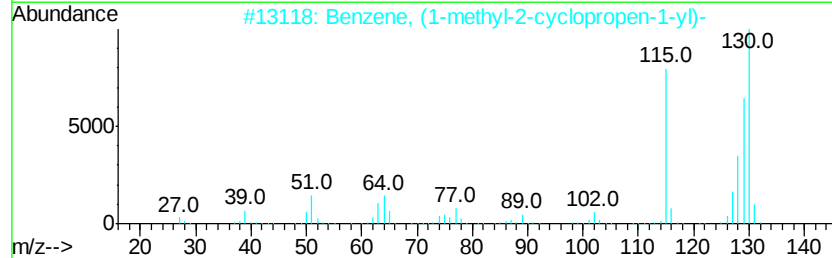
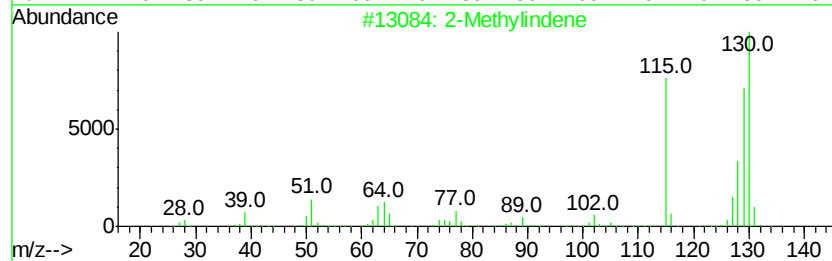
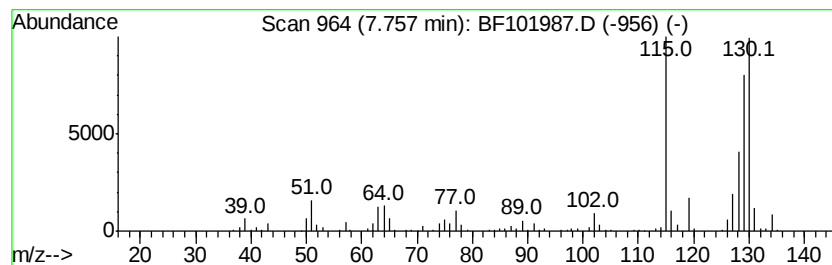
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 2-Methylindene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.76	4.23 ng	530532	Naphthalene-d8	8.01

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	2-Methylindene	130	C10H10	002177-47-1	97
2		Benzene, (1-methyl-2-cyclopropen...	130	C10H10	065051-83-4	96
3		Benzene, 1-methyl-1,2-propadienyl-	130	C10H10	022433-39-2	96
4		1H-Indene, 1-methyl-	130	C10H10	000767-59-9	95
5		Benzene, 1-butyryl-	130	C10H10	000622-76-4	95



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101987.D
Acq On : 10 Jan 2018 19:03
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Misc :
ALS Vial : 8 Sample Multiplier: 1

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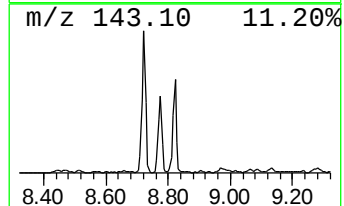
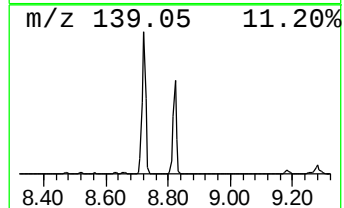
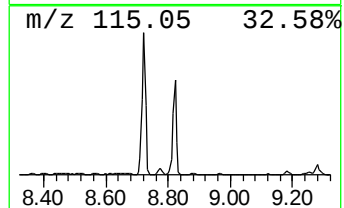
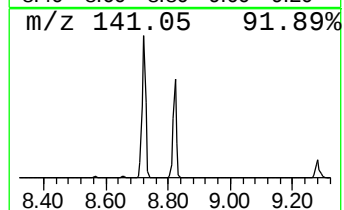
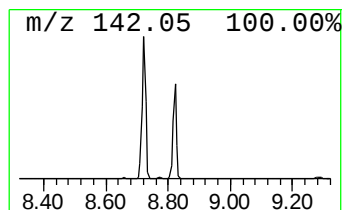
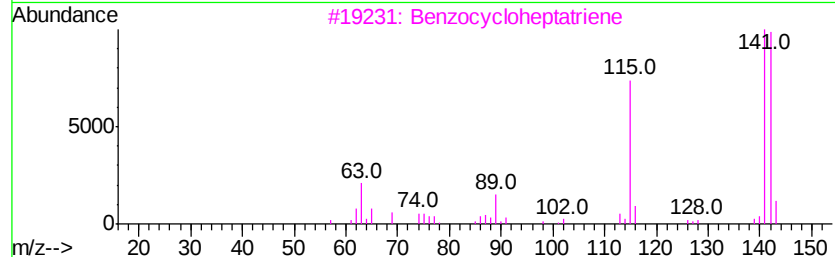
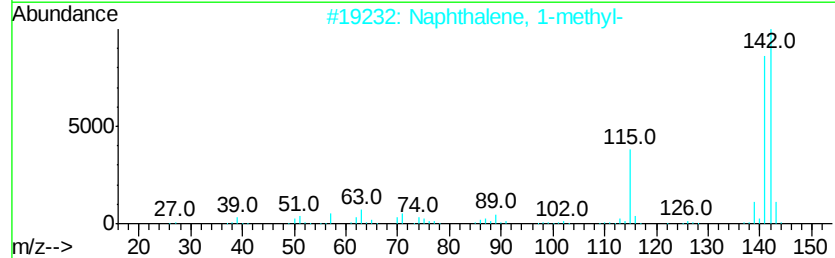
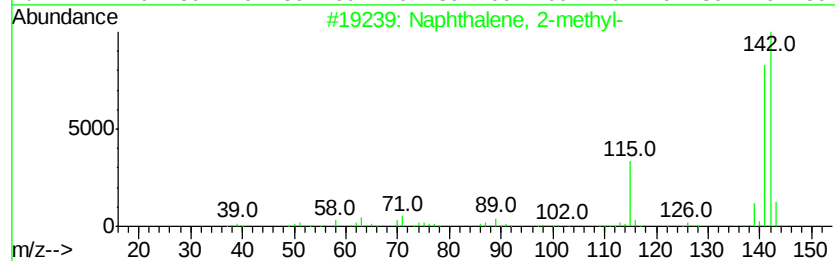
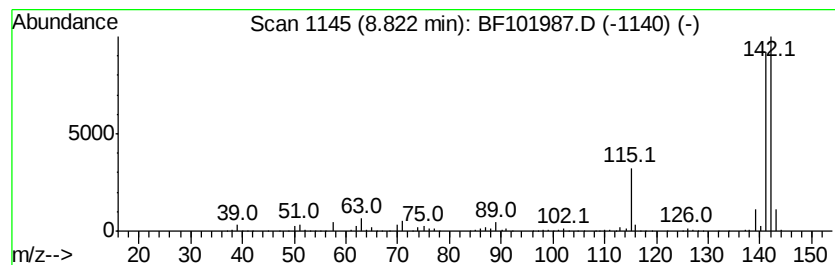
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Naphthalene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.82	12.43 ng	1559080	Naphthalene-d8	8.01

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	96
3		Benzocycloheptatriene	142	C11H10	000264-09-5	94
4		1,4-Methanonaphthalene, 1,4-dihy...	142	C11H10	004453-90-1	91
5		1H-Indene, 1-ethylidene-	142	C11H10	002471-83-2	86



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101987.D
Acq On : 10 Jan 2018 19:03
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Misc :
ALS Vial : 8 Sample Multiplier: 1

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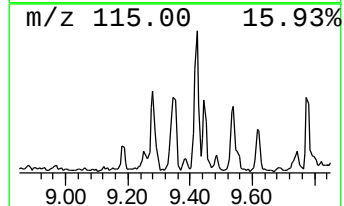
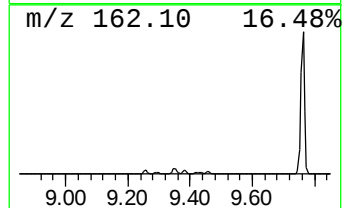
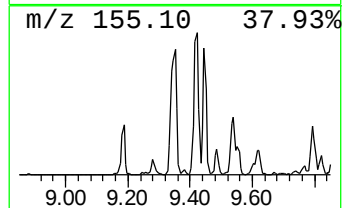
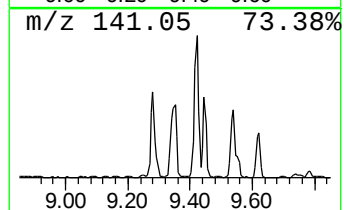
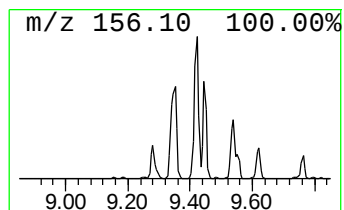
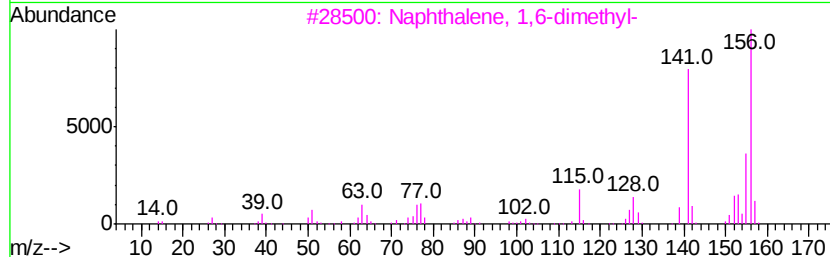
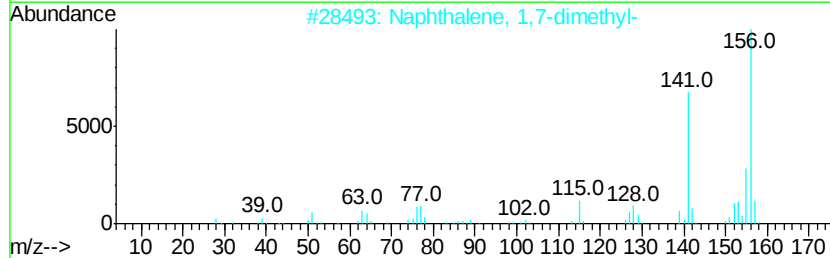
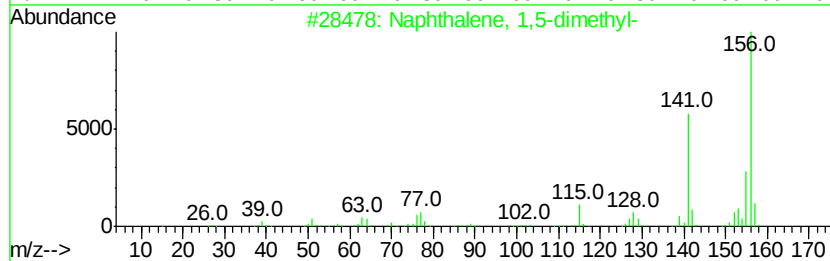
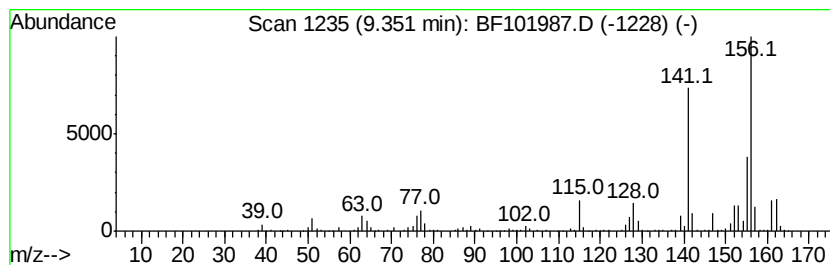
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Naphthalene, 1,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.35	6.37 ng	688120	Acenaphthene-d10	9.76

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
2		Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97
3		Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
4		Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	96
5		Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96



Data Path : U:\HPCHEM1\BNA_F\DATA\BF011018\
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Instrument :
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ClientSampleId :
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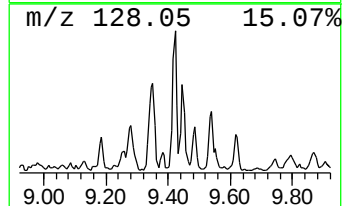
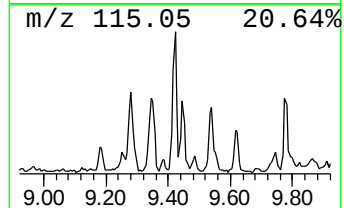
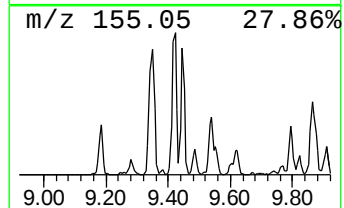
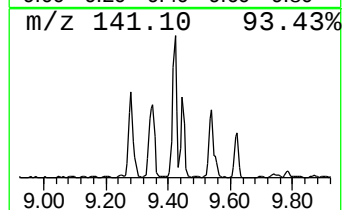
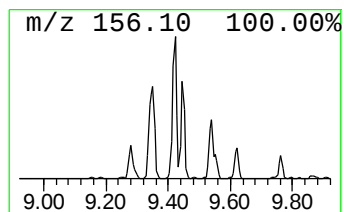
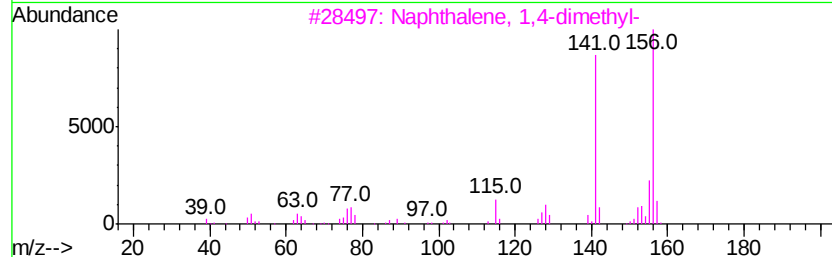
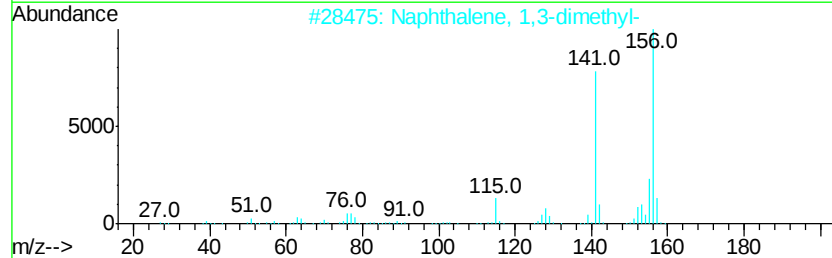
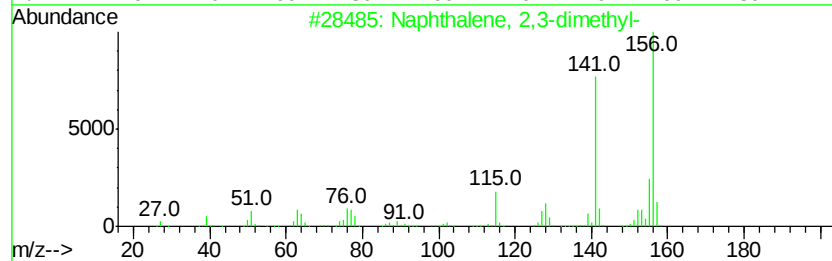
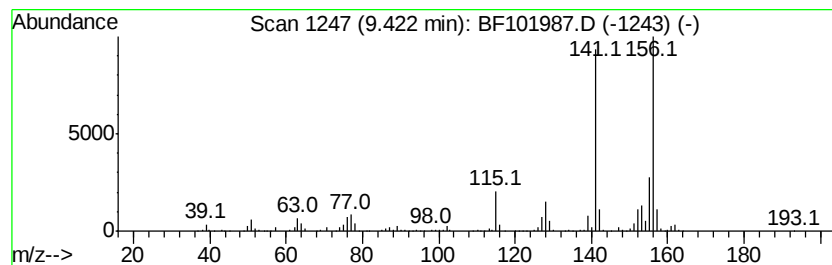
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Naphthalene, 2,3-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.42	6.56 ng	708193	Acenaphthene-d10	9.76

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2			Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	96
3			Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	96
4			Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	96
5			Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	95



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101987.D
Acq On : 10 Jan 2018 19:03
Operator : SJ/JU
Sample : J1076-04 50X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
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ClientSampled :
WC-12R12-01

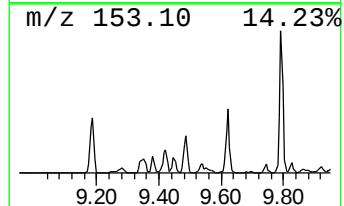
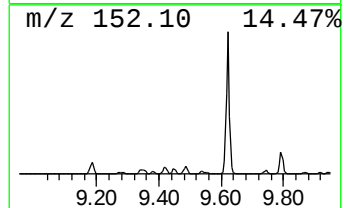
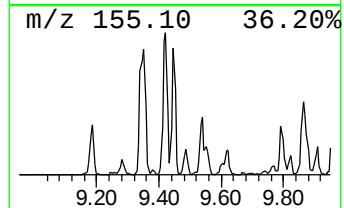
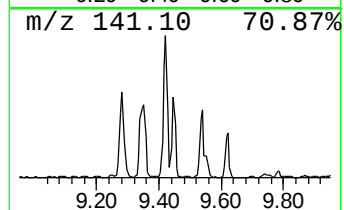
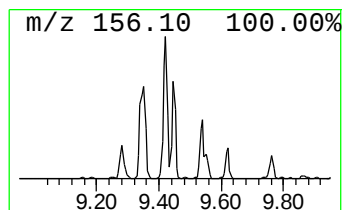
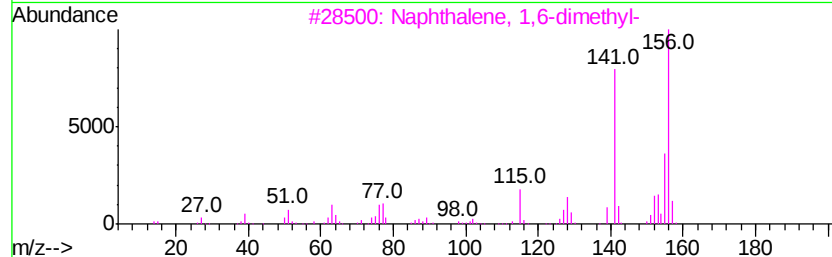
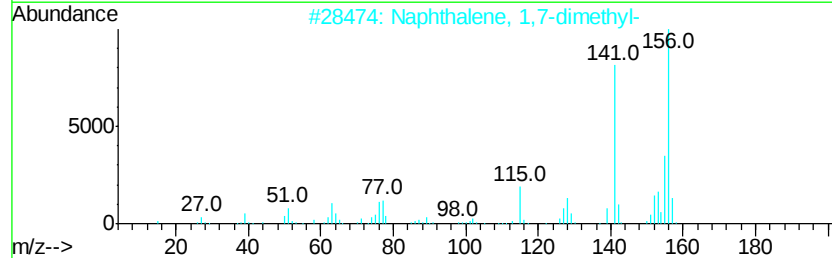
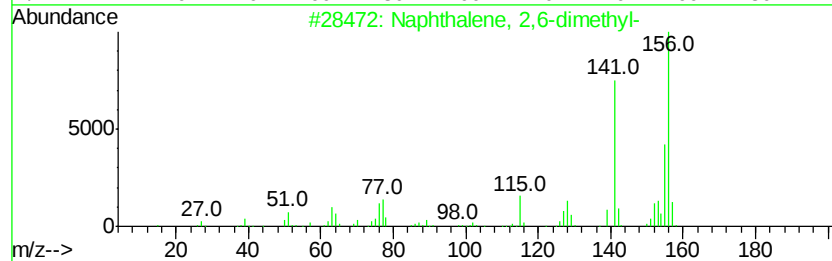
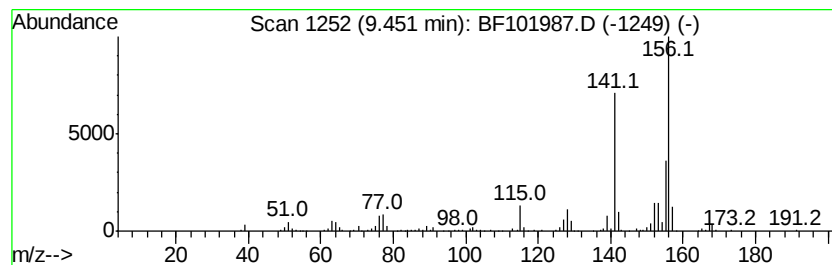
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Naphthalene, 2,6-dimethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.45	3.26 ng	351816	Acenaphthene-d10	9.76

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	98
3		Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97
4		Naphthalene, 2,7-dimethyl-	156	C12H12	000582-16-1	97
5		Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101987.D
Acq On : 10 Jan 2018 19:03
Operator : SJ/JU
Sample : J1076-04 50X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-12R12-01

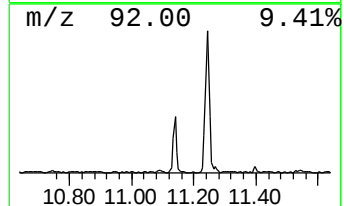
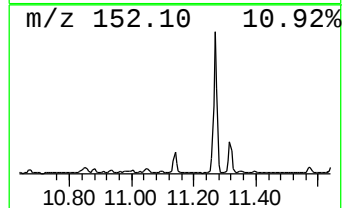
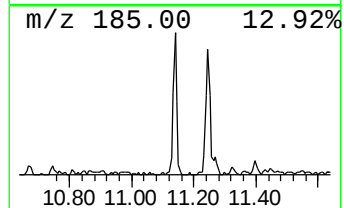
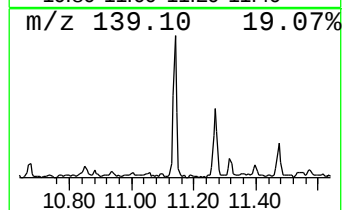
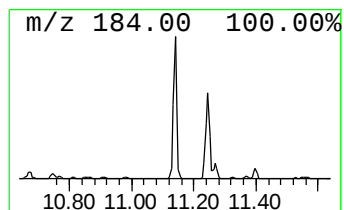
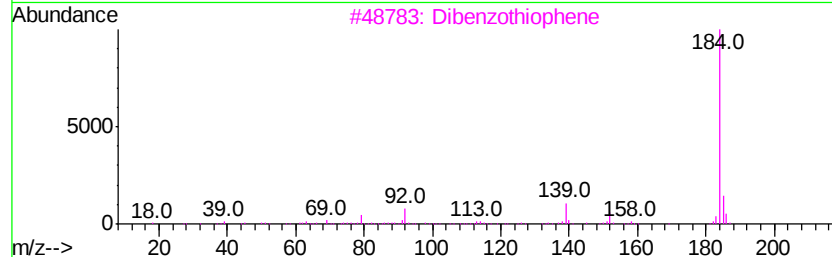
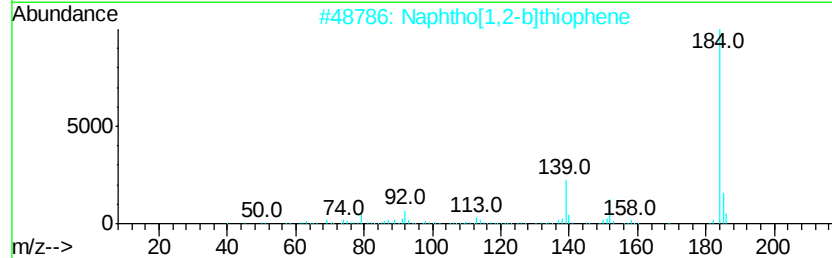
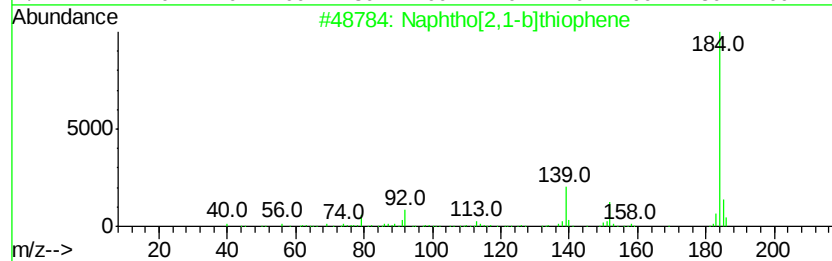
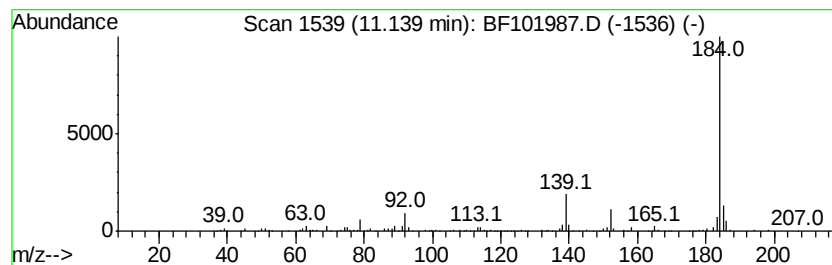
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Naphtho[2,1-b]thiophene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.14	5.24 ng	463088	Phenanthrene-d10	11.25

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2		Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	97
3		Dibenzothiophene	184	C12H8S	000132-65-0	96
4		Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	94
5		Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101987.D
Acq On : 10 Jan 2018 19:03
Operator : SJ/JU
Sample : J1076-04 50X
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-12R12-01

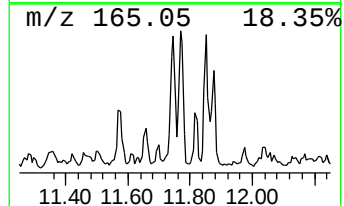
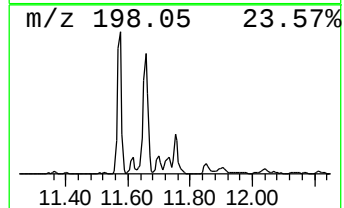
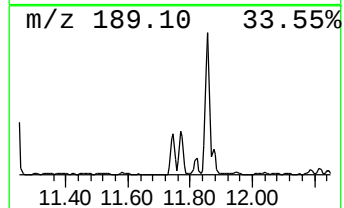
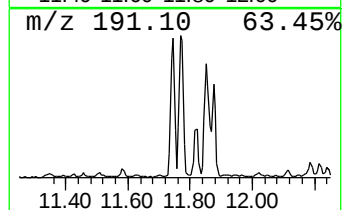
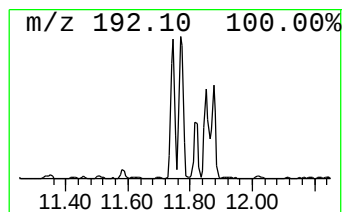
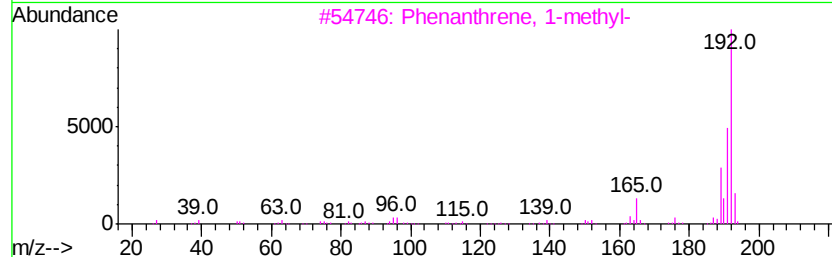
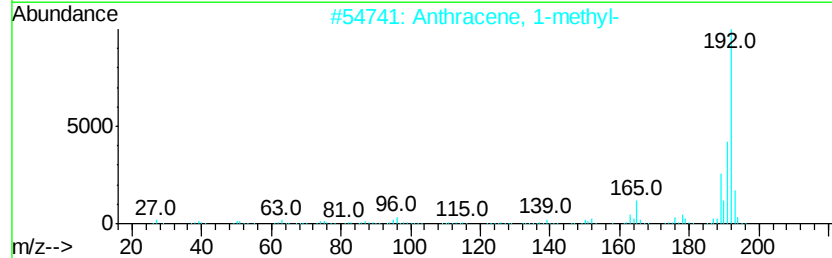
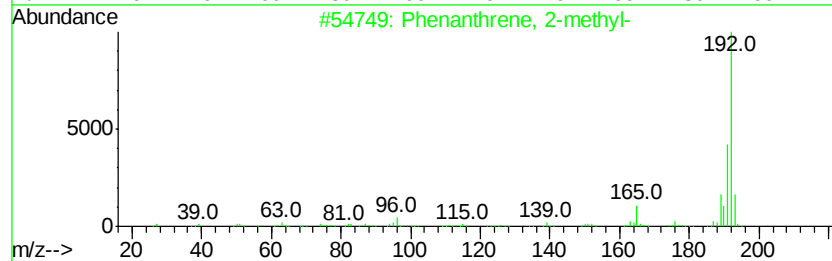
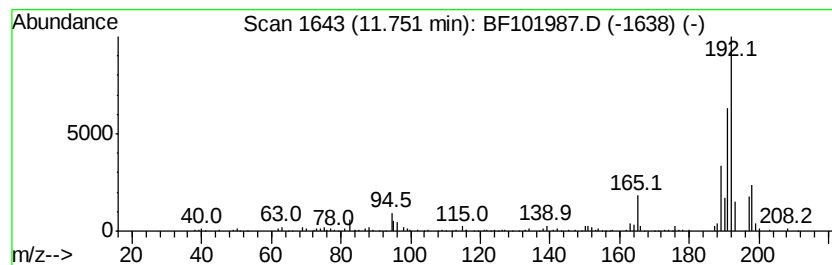
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Phenanthrene, 2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.75	5.14 ng	454181	Phenanthrene-d10	11.25

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94
2			Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
3			Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
4			Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
5			Anthracene, 9-methyl-	192	C15H12	000779-02-2	87



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101987.D
Acq On : 10 Jan 2018 19:03
Operator : SJ/JU
Sample : J1076-04 50X
Misc :
ALS Vial : 8 Sample Multiplier: 1

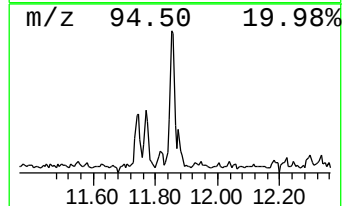
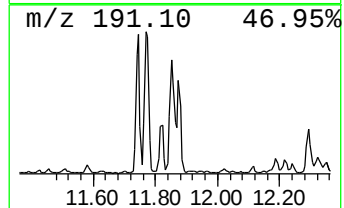
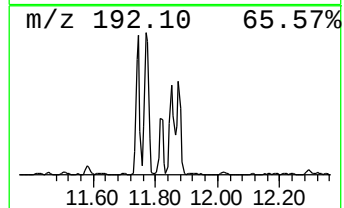
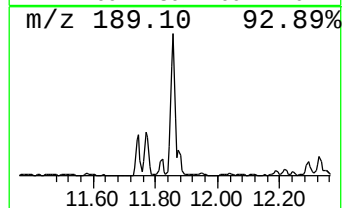
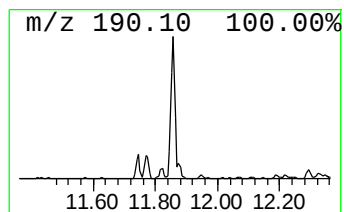
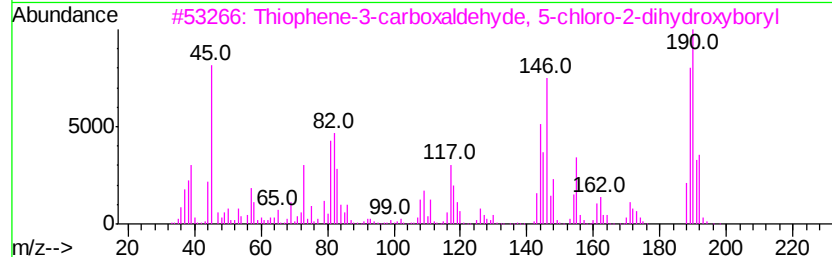
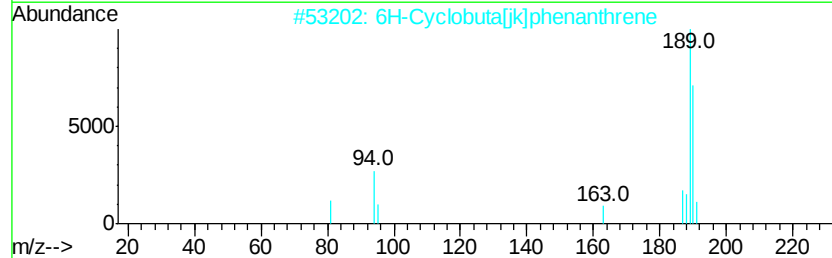
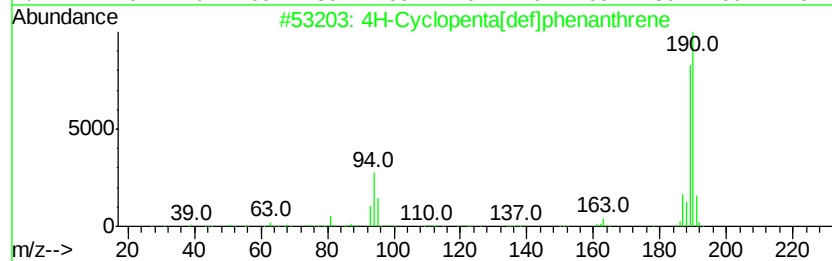
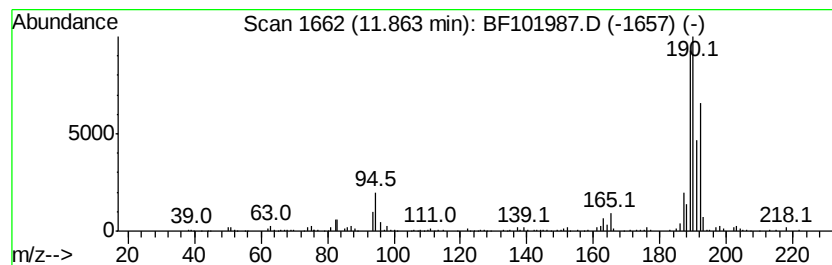
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.86	8.20 ng	725480	Phenanthrene-d10	11.25	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	6H-Cyclobuta[ikl]phenanthrene	190	C15H10	083469-43-6	59
3	Thiophene-3-carboxaldehyde, 5-chloro-2-dihydroxyboryl	190	C5H4BClO3S	036155-87-0	50
4	2,3,5,6-Tetramethylterephthalald	190	C12H14O2	007072-01-7	47
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	38



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101987.D
Acq On : 10 Jan 2018 19:03
Operator : SJ/JU
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Misc :
ALS Vial : 8 Sample Multiplier: 1

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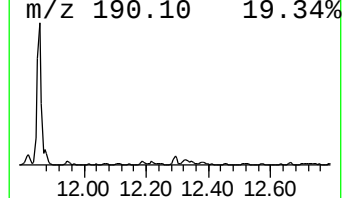
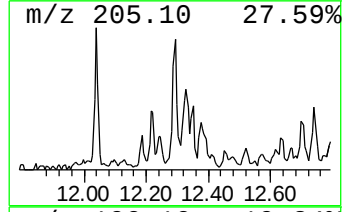
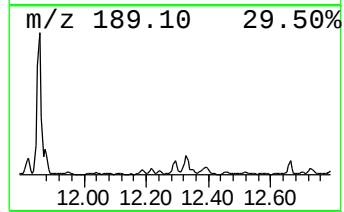
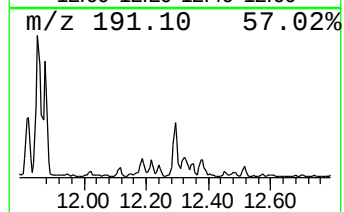
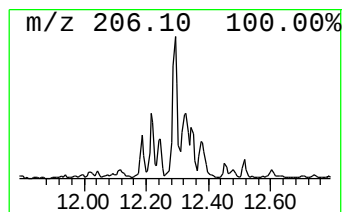
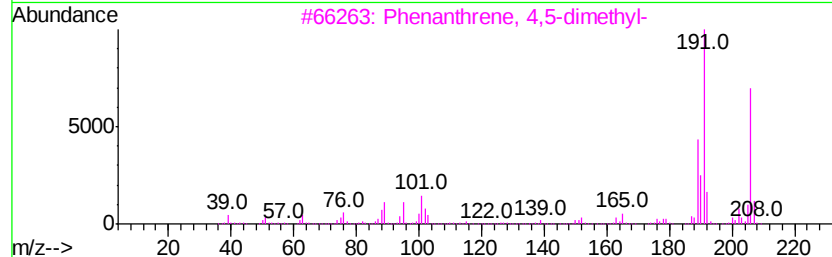
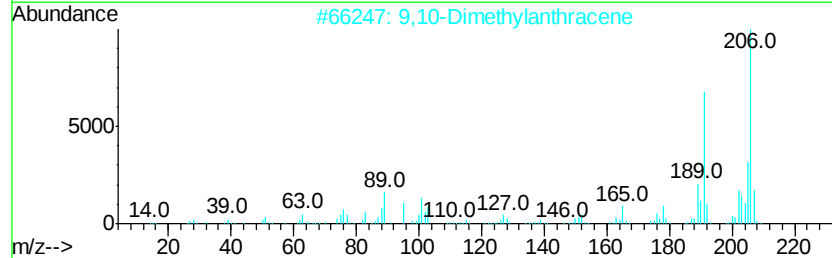
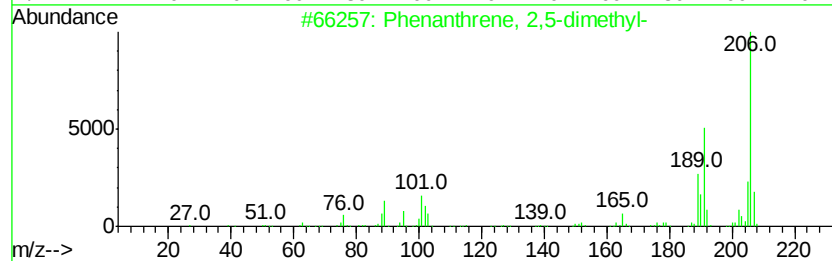
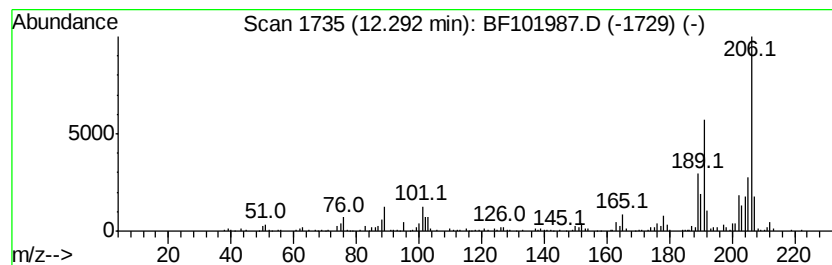
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Phenanthrene, 2,5-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	3.26 ng	287967	Phenanthrene-d10	11.25

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2			9,10-Dimethylantracene	206	C16H14	000781-43-1	93
3			Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	91
4			Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
5			1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	90



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101987.D
Acq On : 10 Jan 2018 19:03
Operator : SJ/JU
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Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-12R12-01

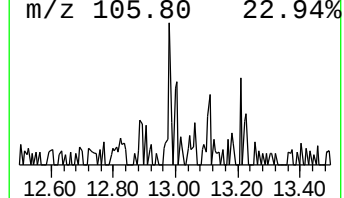
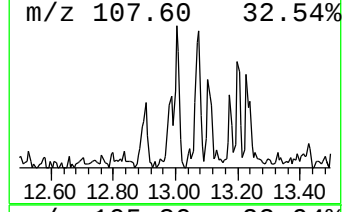
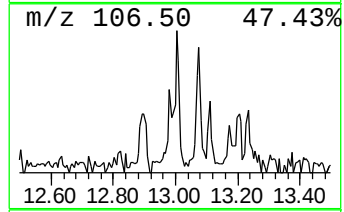
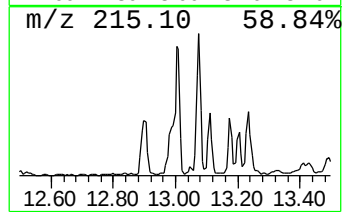
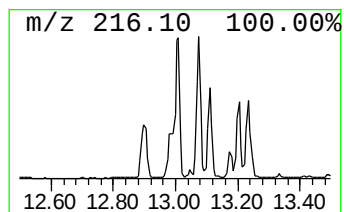
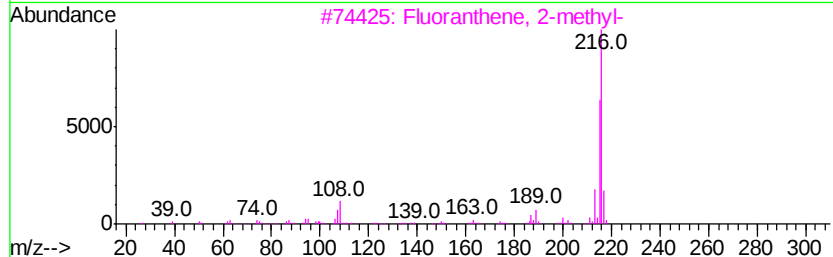
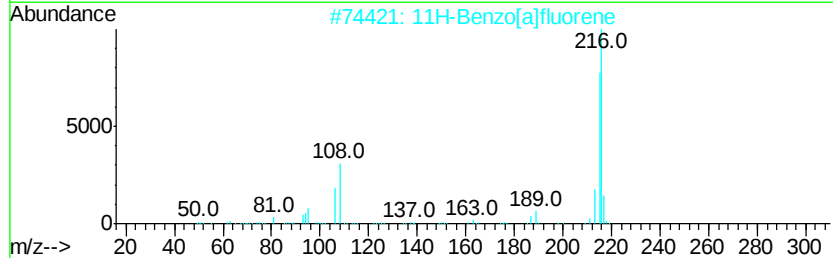
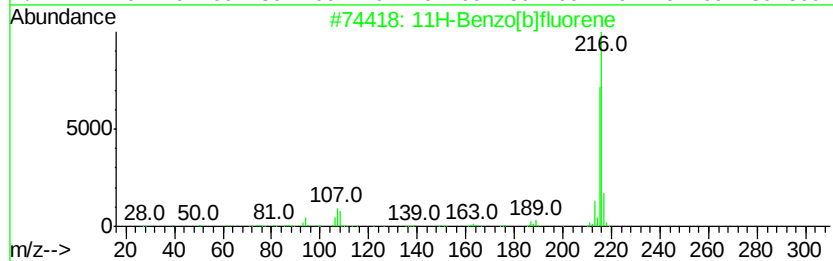
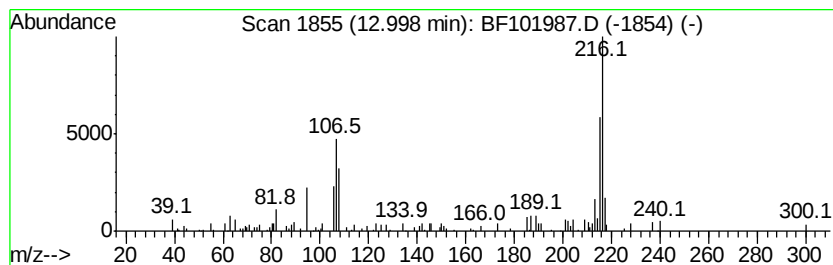
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 11H-Benzo[b]fluorene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.00	3.37 ng	265607	Chrysene-d12	13.87

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
2		11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
3		Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	76
4		Pvrene, 1-methyl-	216	C17H12	002381-21-7	76
5		7H-Benzo[c]fluorene	216	C17H12	000205-12-9	72



Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF101987.D
Acq On : 10 Jan 2018 19:03
Operator : SJ/JU
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Misc :
ALS Vial : 8 Sample Multiplier: 1

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ClientSampleId :
WC-12R12-01

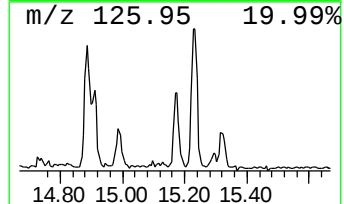
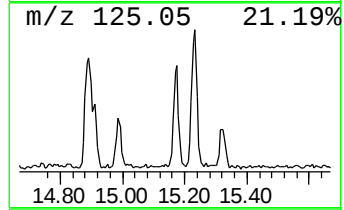
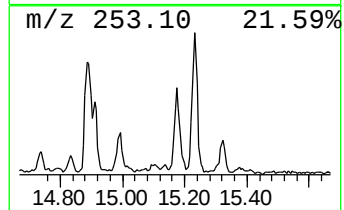
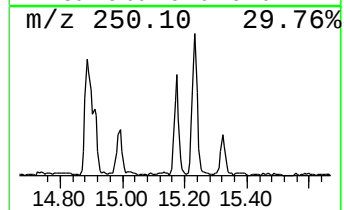
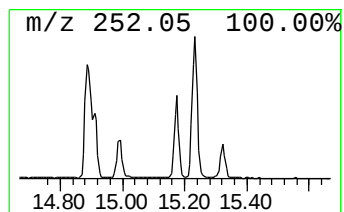
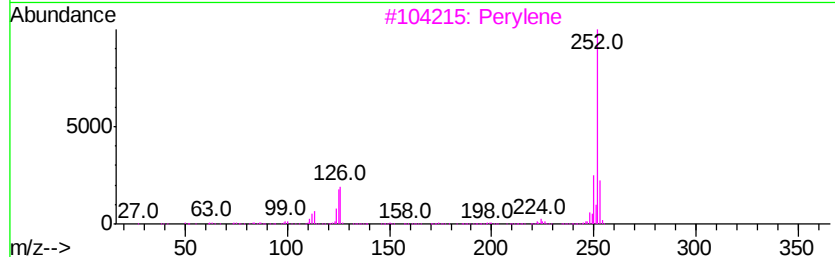
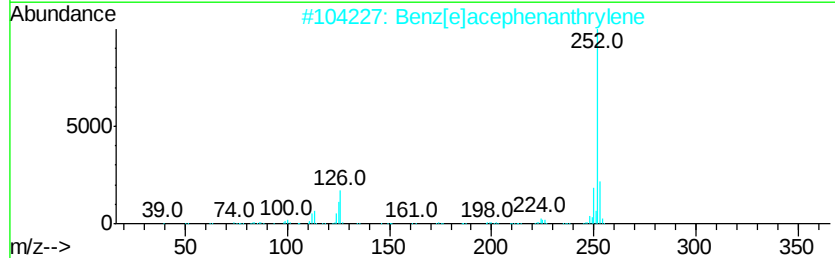
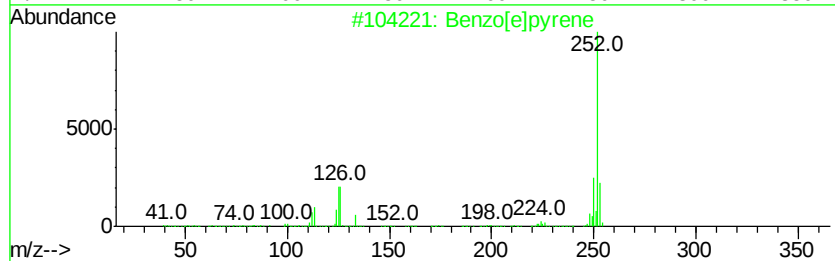
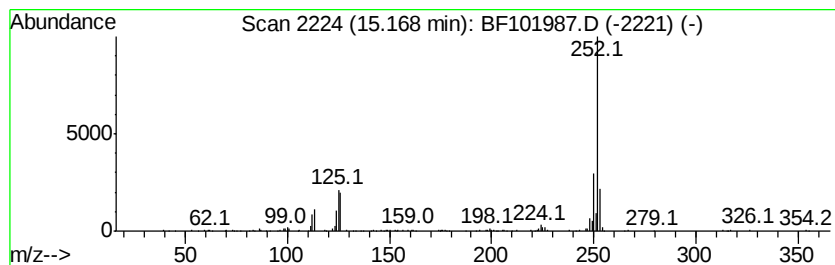
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Benzo[e]pyrene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.17	4.14 ng	231796	Perylene-d12	15.30

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2		Benz[e]acephenanthrylene	252	C20H12	000205-99-2	98
3		Perylene	252	C20H12	000198-55-0	98
4		Benzo[il]fluoranthene	252	C20H12	000205-82-3	98
5		Benzo[a]pyrene	252	C20H12	000050-32-8	95



Data Path : U:\HPCHEM1\BNA_F\DATA\BF011018\
 Data File : BF101987.D
 Acq On : 10 Jan 2018 19:03
 Operator : SJ/JU
 Sample : J1076-04 50X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-12R12-01

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF010918.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
Bicyclo[4.2.0]oct...	5.56	7.8	ng	547768	1	6.73	1401790	20.0
Benzene, 1-ethyl-...	6.25	3.7	ng	258456	1	6.73	1401790	20.0
Benzene, 1-ethyl-...	6.55	12.6	ng	880974	1	6.73	1401790	20.0
Indane	6.90	5.6	ng	389902	1	6.73	1401790	20.0
Indene	6.99	17.8	ng	1247640	1	6.73	1401790	20.0
2-Methylindene	7.76	4.2	ng	530532	2	8.01	2507690	20.0
Naphthalene, 1-me...	8.82	12.4	ng	1559080	2	8.01	2507690	20.0
Naphthalene, 1,5-...	9.35	6.4	ng	688120	3	9.76	2159280	20.0
Naphthalene, 2,3-...	9.42	6.6	ng	708193	3	9.76	2159280	20.0
Naphthalene, 2,6-...	9.45	3.3	ng	351816	3	9.76	2159280	20.0
Naphtho[2,1-b]thi...	11.14	5.2	ng	463088	4	11.25	1768500	20.0
Phenanthrene, 2-m...	11.75	5.1	ng	454181	4	11.25	1768500	20.0
4H-Cyclopenta[def...	11.86	8.2	ng	725480	4	11.25	1768500	20.0
Phenanthrene, 2,5...	12.29	3.3	ng	287967	4	11.25	1768500	20.0
11H-Benzo[b]fluorene	13.00	3.4	ng	265607	5	13.87	1578380	20.0
Benzo[e]pyrene	15.17	4.1	ng	231796	6	15.30	1121070	20.0