

Data Path : Z:\HPCHEM1\BNA F\DATA\BF012218\
 Data File : BF102315.D
 Acq On : 22 Jan 2018 22:31
 Operator : SJ/JU
 Sample : J1238-05 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-09-0-2.0

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-BF012218.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	4.899	472	478	485	rBV	81046	100758	3.58%	0.225%
2	5.169	520	524	533	rBV	271103	259968	9.24%	0.581%
3	5.322	546	550	558	rVB	1453325	1348849	47.93%	3.017%
4	5.534	582	586	596	rBV	943403	947298	33.66%	2.119%
5	5.875	638	644	647	rBV	117341	103982	3.69%	0.233%
6	6.169	692	694	699	rVB	71915	61663	2.19%	0.138%
7	6.234	702	705	708	rBV	57445	60916	2.16%	0.136%
8	6.269	708	711	715	rVB	94534	91616	3.26%	0.205%
9	6.357	722	726	736	rBV	1510228	1437876	51.09%	3.216%
10	6.487	744	748	751	rBV	1679408	1427103	50.71%	3.192%
11	6.716	783	787	794	rBV	936033	779575	27.70%	1.743%
12	6.869	809	813	817	rBV	1284968	1077372	38.28%	2.409%
13	7.281	879	883	893	rBV	940697	822571	29.23%	1.840%
14	7.998	1001	1005	1008	rBV	1198952	994832	35.35%	2.225%
15	8.022	1008	1009	1014	rVB	139128	78001	2.77%	0.174%
16	8.710	1123	1126	1134	rVB	72259	63913	2.27%	0.143%
17	8.810	1140	1143	1151	rVB	76976	65762	2.34%	0.147%
18	9.075	1184	1188	1191	rBV	1663479	1325336	47.09%	2.964%
19	9.339	1228	1233	1237	rBV	32615	44044	1.57%	0.098%
20	9.410	1241	1245	1248	rVV	75020	72614	2.58%	0.162%
21	9.469	1252	1255	1258	rVV	152664	127272	4.52%	0.285%
22	9.528	1262	1265	1273	rBV2	39385	47135	1.67%	0.105%
23	9.610	1276	1279	1284	rBV	207131	182928	6.50%	0.409%
24	9.681	1288	1291	1295	rVB	69012	55175	1.96%	0.123%
25	9.751	1295	1303	1306	rBV2	1106343	951081	33.80%	2.127%
26	9.781	1306	1308	1312	rVB	278229	233911	8.31%	0.523%
27	9.910	1325	1330	1333	rBV3	37320	45671	1.62%	0.102%
28	9.957	1333	1338	1342	rVV	218843	208271	7.40%	0.466%
29	10.181	1374	1376	1378	rVB2	82334	58872	2.09%	0.132%
30	10.298	1393	1396	1401	rVB	292594	251991	8.95%	0.564%
31	10.457	1420	1423	1426	rVB	77360	70607	2.51%	0.158%
32	10.539	1433	1437	1440	rBV	833446	709384	25.21%	1.586%
33	10.657	1453	1457	1465	rVB4	73421	121033	4.30%	0.271%
34	10.845	1483	1489	1491	rBV3	76628	124050	4.41%	0.277%

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35	10.869	1491	1493	1497	rVB	284837	227426	8.08%	0.509%
36	10.975	1506	1511	1513	rBV3	44900	52849	1.88%	0.118%
37	11.010	1513	1517	1520	rVV	153658	163556	5.81%	0.366%
38	11.045	1520	1523	1526	rVV	209120	188071	6.68%	0.421%
39	11.098	1526	1532	1535	rVV3	59253	105970	3.77%	0.237%
40	11.133	1535	1538	1545	rVB	187104	174414	6.20%	0.390%
41	11.239	1552	1556	1558	rBV	810105	860127	30.56%	1.924%
42	11.263	1558	1560	1563	rVV	2525890	2155470	76.59%	4.820%
43	11.310	1563	1568	1572	rVV	692170	677207	24.06%	1.515%
44	11.345	1572	1574	1577	rVB2	76818	73089	2.60%	0.163%
45	11.469	1589	1595	1603	rBV2	408980	496187	17.63%	1.110%
46	11.533	1603	1606	1609	rVV2	75071	73404	2.61%	0.164%
47	11.569	1609	1612	1616	rVB3	83725	85337	3.03%	0.191%
48	11.739	1636	1641	1643	rBV	392274	342525	12.17%	0.766%
49	11.769	1643	1646	1649	rVV	464876	420019	14.92%	0.939%
50	11.816	1650	1654	1656	rBV	171747	163797	5.82%	0.366%
51	11.851	1656	1660	1662	rVV2	516069	548227	19.48%	1.226%
52	11.869	1662	1663	1668	rVB	254873	206240	7.33%	0.461%
53	11.922	1668	1672	1674	rBV	64394	78976	2.81%	0.177%
54	12.033	1688	1691	1693	rVV	250367	200343	7.12%	0.448%
55	12.063	1693	1696	1699	rVB	230010	184409	6.55%	0.412%
56	12.180	1711	1716	1719	rBV2	108524	126343	4.49%	0.283%
57	12.210	1719	1721	1724	rVV	94235	84520	3.00%	0.189%
58	12.239	1724	1726	1728	rVB	81743	59195	2.10%	0.132%
59	12.286	1728	1734	1736	rBV	208203	233769	8.31%	0.523%
60	12.327	1738	1741	1743	rVV	119398	144772	5.14%	0.324%
61	12.375	1746	1749	1754	rBV	251950	268315	9.53%	0.600%
62	12.457	1758	1763	1766	rBV	2738246	2607208	92.64%	5.831%
63	12.516	1771	1773	1776	rVV3	68945	80567	2.86%	0.180%
64	12.545	1776	1778	1780	rVB	96406	73984	2.63%	0.165%
65	12.598	1782	1787	1791	rBV3	116776	171337	6.09%	0.383%
66	12.686	1795	1802	1806	rBV2	2316321	2814217	100.00%	6.294%
67	12.727	1806	1809	1814	rVB2	148865	176472	6.27%	0.395%
68	12.798	1817	1821	1822	rBV	184396	170165	6.05%	0.381%
69	12.822	1822	1825	1832	rVB2	1115238	1158338	41.16%	2.591%
70	12.898	1833	1838	1841	rBV3	207232	328766	11.68%	0.735%
71	12.980	1849	1852	1854	rBV2	179326	212026	7.53%	0.474%

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72	13.004	1854	1856	1859	rVB	300769	290774	10.33%	0.650%
73	13.051	1859	1864	1865	rBV3	43361	65839	2.34%	0.147%
74	13.074	1865	1868	1870	rBV	195259	153017	5.44%	0.342%
75	13.110	1870	1874	1877	rBV2	311386	334769	11.90%	0.749%
76	13.169	1881	1884	1886	rBV2	60808	62364	2.22%	0.139%
77	13.204	1887	1890	1892	rVB	156736	134246	4.77%	0.300%
78	13.233	1892	1895	1898	rBV	192638	184244	6.55%	0.412%
79	13.516	1940	1943	1947	rVB	377522	349881	12.43%	0.782%
80	13.621	1958	1961	1964	rBV2	283956	337404	11.99%	0.755%
81	13.651	1964	1966	1968	rVV	256102	249694	8.87%	0.558%
82	13.680	1968	1971	1975	rVV2	1080400	1132433	40.24%	2.533%
83	13.722	1975	1978	1982	rVB	396133	415746	14.77%	0.930%
84	13.874	1997	2004	2007	rBV2	1528947	2649626	94.15%	5.926%
85	13.910	2007	2010	2015	rVB	1315876	1300812	46.22%	2.909%
86	13.980	2020	2022	2024	rBV	150339	128187	4.55%	0.287%
87	14.004	2024	2026	2028	rBV	198743	147891	5.26%	0.331%
88	14.045	2030	2033	2036	rVV	341707	297744	10.58%	0.666%
89	14.074	2036	2038	2040	rVV	112753	83871	2.98%	0.188%
90	14.133	2046	2048	2051	rBV2	70192	76573	2.72%	0.171%
91	14.263	2068	2070	2073	rVB	298486	242627	8.62%	0.543%
92	14.298	2073	2076	2080	rBV	154941	144306	5.13%	0.323%
93	14.386	2089	2091	2093	rBV2	154558	148899	5.29%	0.333%
94	14.904	2174	2179	2182	rBV	1017537	1610307	57.22%	3.601%
95	15.004	2193	2196	2199	rVB	203301	210356	7.47%	0.470%
96	15.192	2224	2228	2233	rVB	578303	753385	26.77%	1.685%
97	15.251	2233	2238	2242	rBV	809823	1025472	36.44%	2.293%
98	15.310	2244	2248	2250	rBV	438396	550221	19.55%	1.231%
99	16.704	2479	2485	2491	rVB2	331851	592006	21.04%	1.324%
100	17.121	2552	2556	2564	rVB	265445	503020	17.87%	1.125%

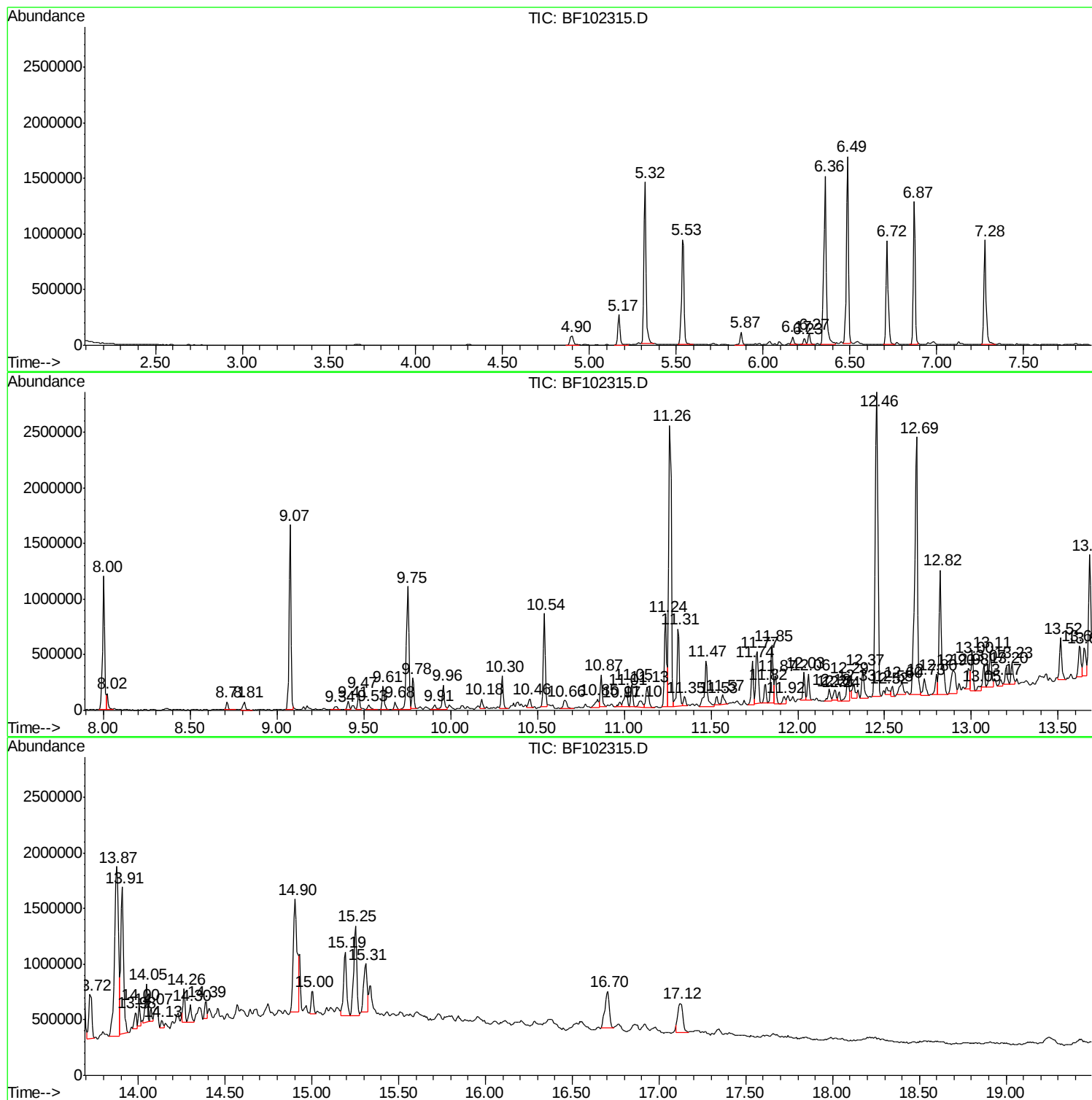
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Instrument :
BNA_F
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SB-09-0-2.0

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.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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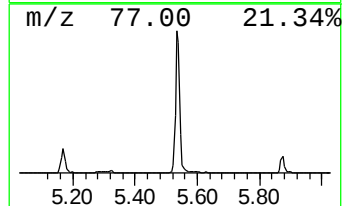
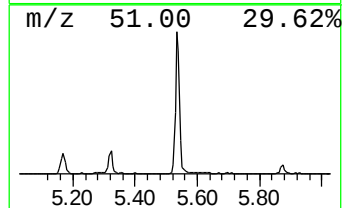
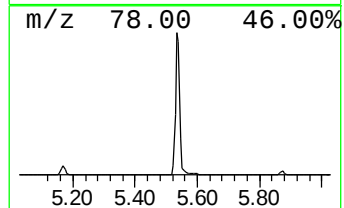
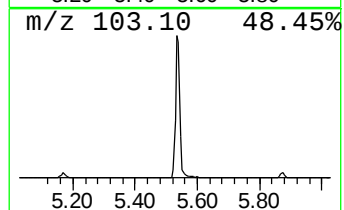
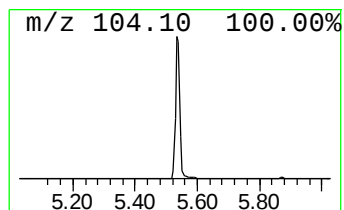
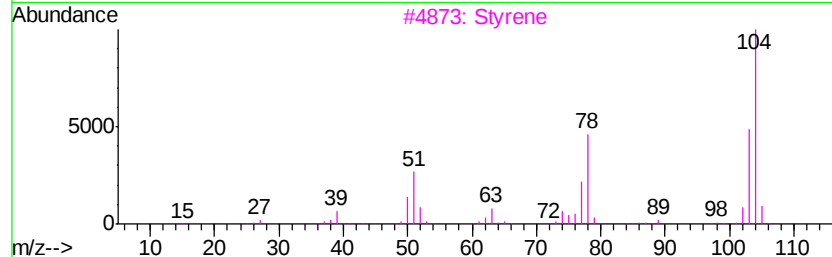
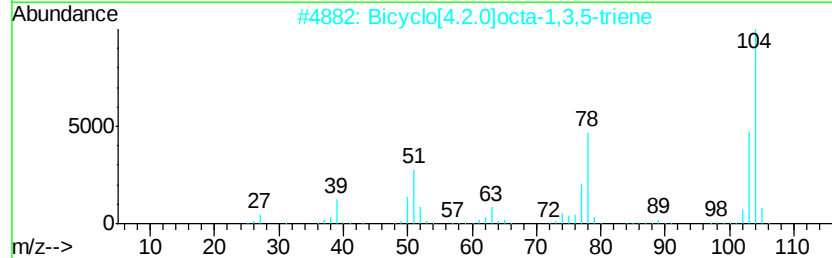
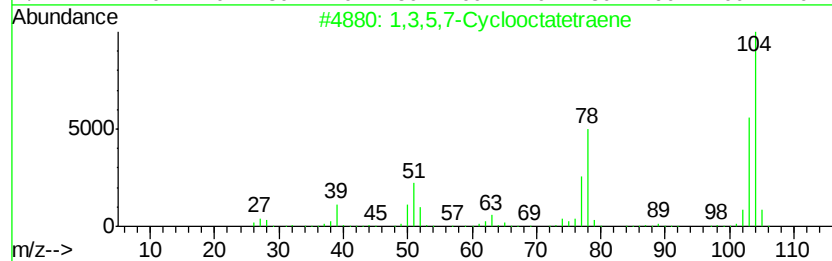
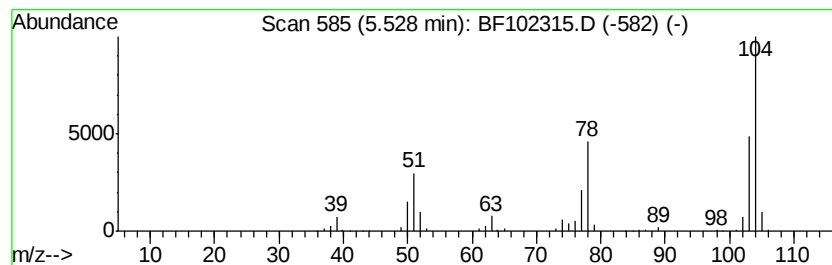
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 2 1,3,5,7-Cyclooctatetraene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.53	24.30 ng	947298	1,4-Dichlorobenzene-d4	6.72

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,3,5,7-Cyclooctatetraene	104	C8H8	000629-20-9	97
2		Bicyclo[4.2.0]octa-1,3,5-triene	104	C8H8	000694-87-1	96
3		Styrene	104	C8H8	000100-42-5	96
4		Butanedioic acid, phenyl-	194	C10H10O4	000635-51-8	64
5		1,3,7-Octatrien-5-yne	104	C8H8	016607-77-5	37



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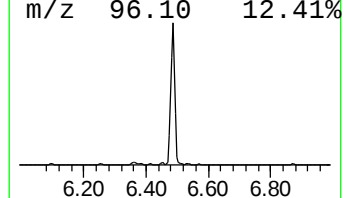
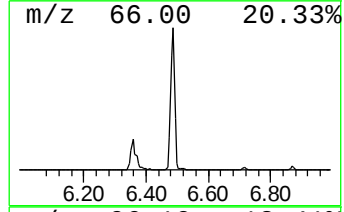
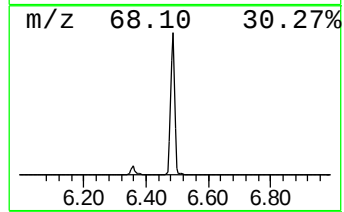
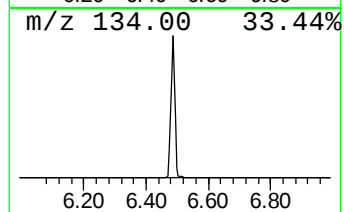
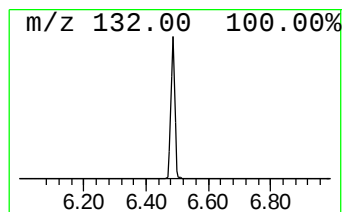
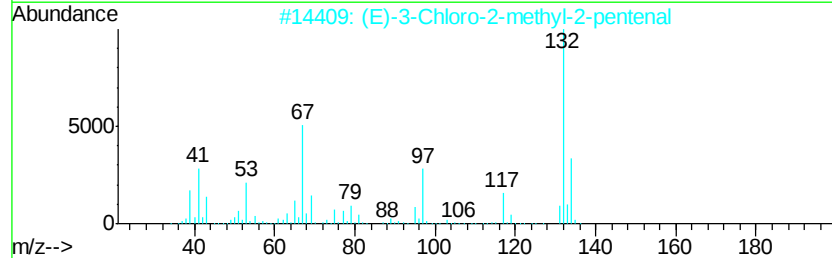
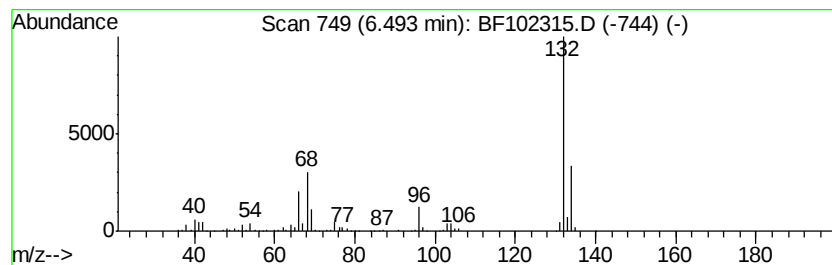
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012218.M
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 unknown6.49 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.49	36.61 ng	1427100	1,4-Dichlorobenzene-d4	6.72

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3		Tranvlcypropine-propionyl	189	C12H15NO	1000123-86-3	12
4		Amphetaminil	250	C17H18N2	017590-01-1	12
5		5-Aminoindole	132	C8H8N2	005192-03-0	12



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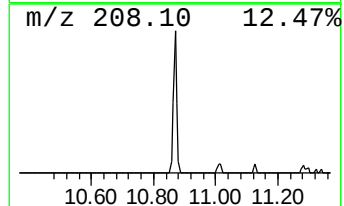
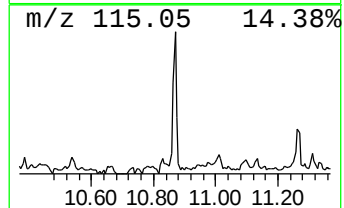
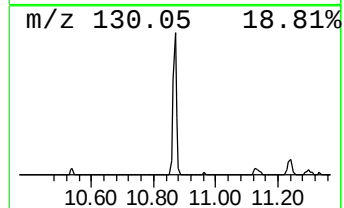
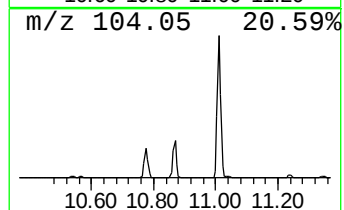
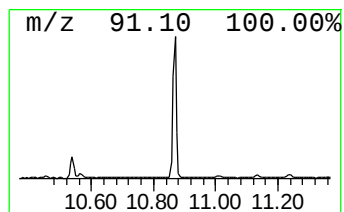
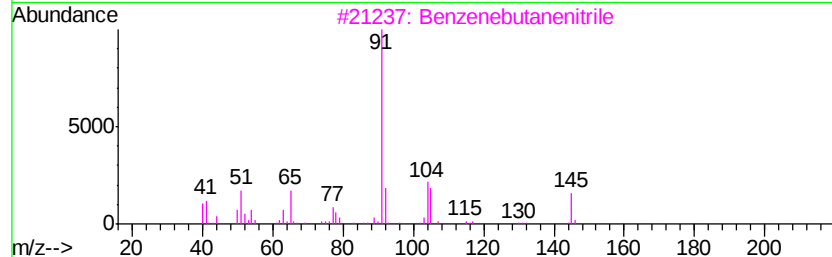
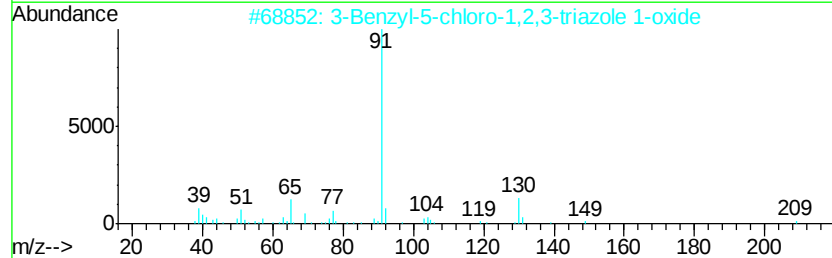
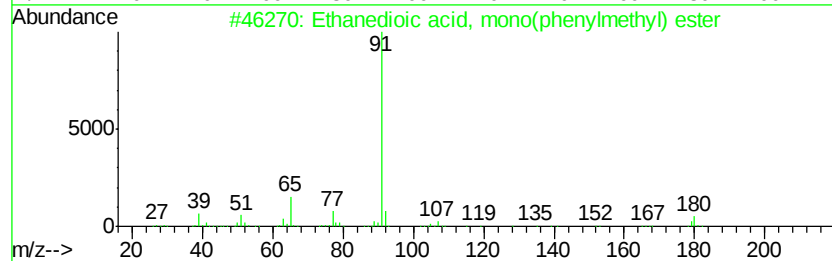
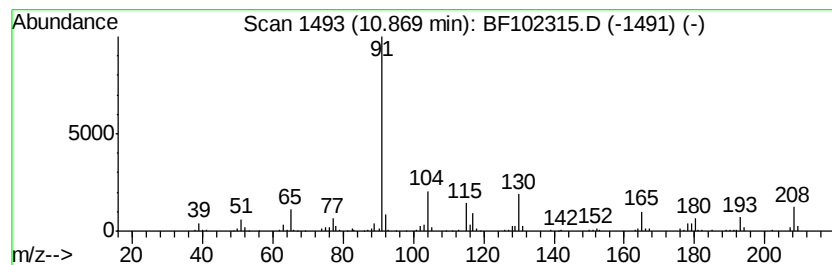
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Peak Number 5 unknown10.87 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.87	5.29 ng	227426	Phenanthrene-d10	11.24

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Ethanedioic acid, mono(phenylmet...	180	C9H8O4	035448-14-7	20
2		3-Benzyl-5-chloro-1,2,3-triazole...	209	C9H8ClN3O	116932-67-3	18
3		Benzenebutanenitrile	145	C10H11N	002046-18-6	16
4		1-Benzyl-1,2,3-triazole	159	C9H9N3	004368-68-7	16
5		3-Benzyl-4-chloro-1,2,3-triazole...	209	C9H8ClN3O	116932-63-9	15



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF012218\
Data File : BF102315.D
Acq On : 22 Jan 2018 22:31
Operator : SJ/JU
Sample : J1238-05 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

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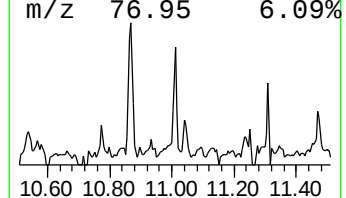
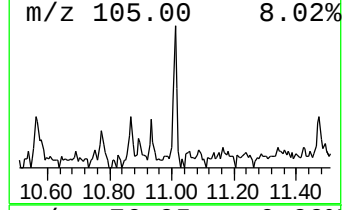
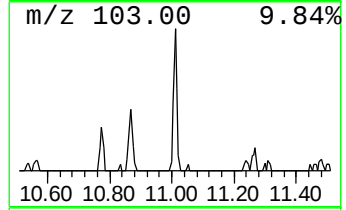
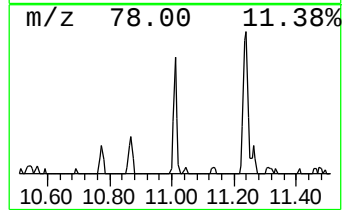
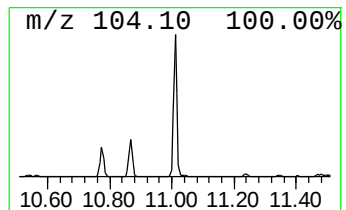
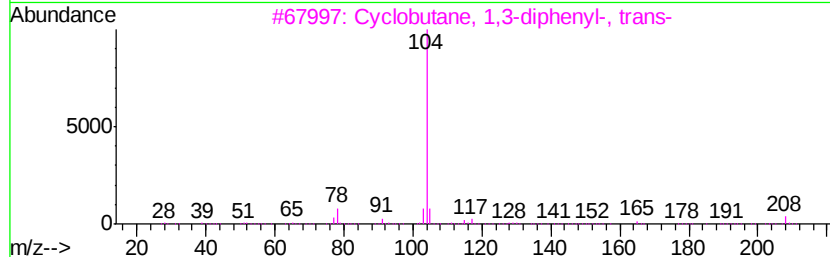
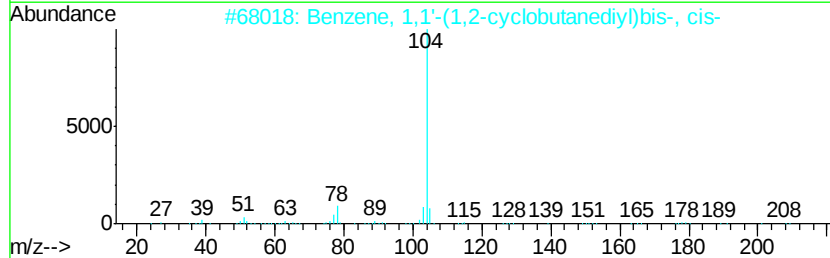
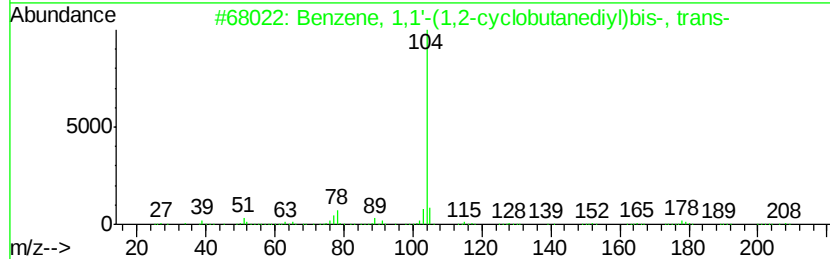
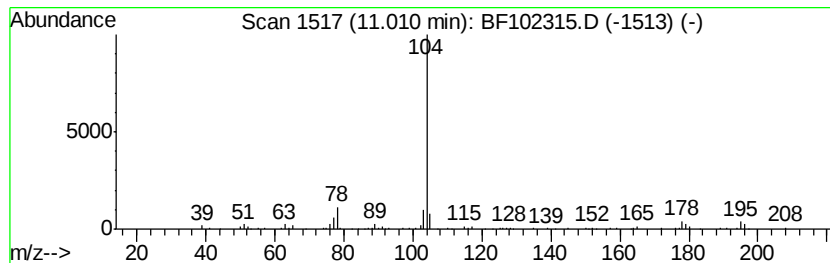
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Benzene, 1,1'-(1,2-cyclobut... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.01	3.80 ng	163556	Phenanthrene-d10	11.24

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzene, 1,1'-(1,2-cyclobutanedi...	208	C16H16	020071-09-4	87
2		Benzene, 1,1'-(1,2-cyclobutanedi...	208	C16H16	007694-30-6	72
3		Cyclobutane, 1,3-diphenyl-, trans-	208	C16H16	025558-23-0	64
4		Acetic acid, 2-phenylethyl ester	164	C10H12O2	000103-45-7	64
5		Cyclobutane, 1,2-diphenyl-	208	C16H16	003018-21-1	64



Data Path : Z:\HPCHEM1\BNA F\DATA\BF012218\
Data File : BF102315.D
Acq On : 22 Jan 2018 22:31
Operator : SJ/JU
Sample : J1238-05 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
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ClientSampleId :
SB-09-0-2.0

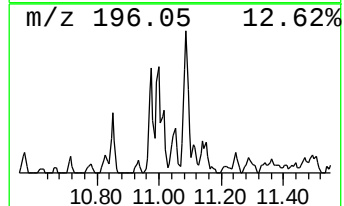
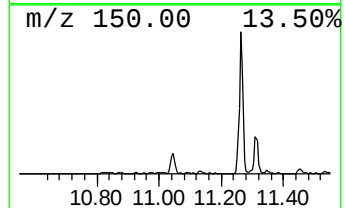
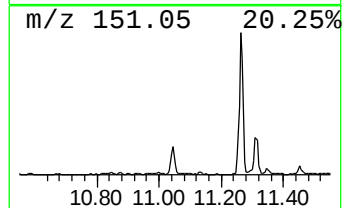
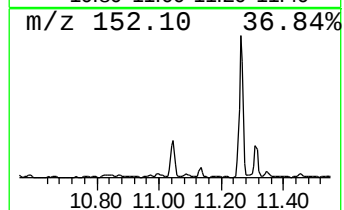
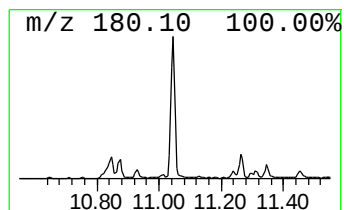
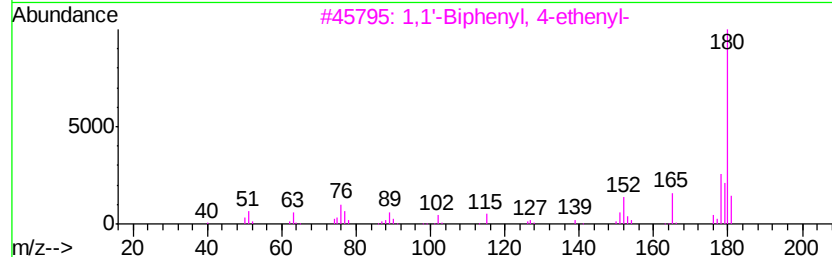
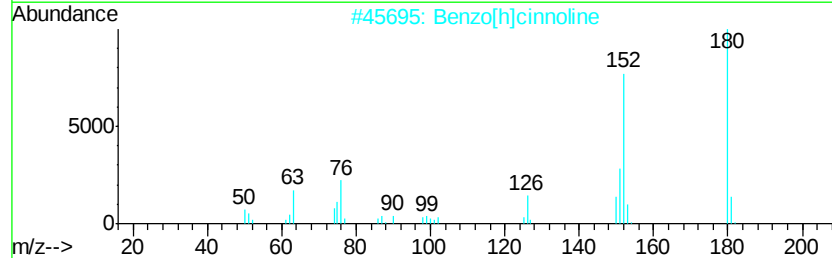
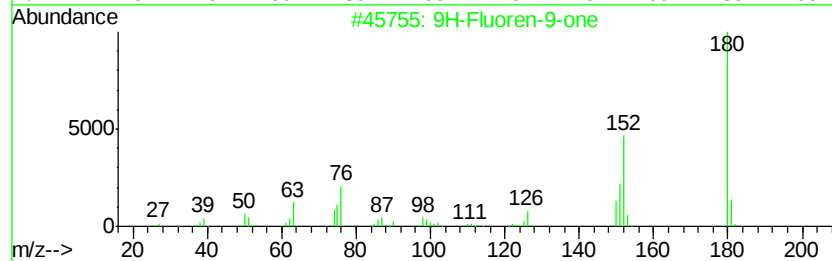
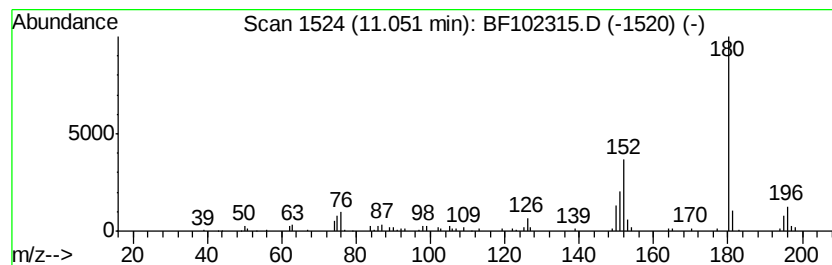
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 9H-Fluoren-9-one Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.05	4.37 ng	188071	Phenanthrene-d10	11.24

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
2		Benzo[h]cinnoline	180	C12H8N2	000230-31-9	87
3		1,1'-Biphenyl, 4-ethenyl-	180	C14H12	002350-89-2	50
4		1H-Phenalen-1-one	180	C13H8O	000548-39-0	49
5		Phenazine	180	C12H8N2	000092-82-0	43



Data Path : Z:\HPCHEM1\BNA F\DATA\BF012218\
Data File : BF102315.D
Acq On : 22 Jan 2018 22:31
Operator : SJ/JU
Sample : J1238-05 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

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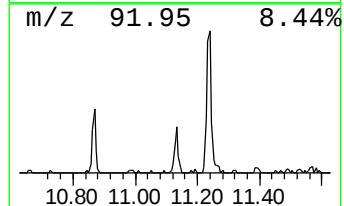
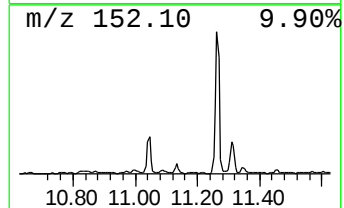
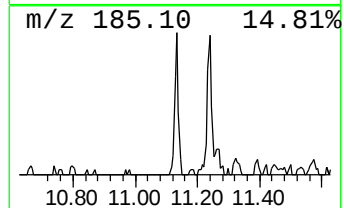
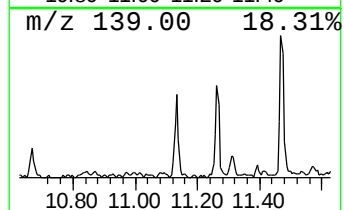
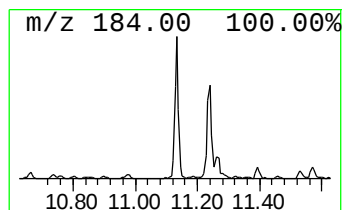
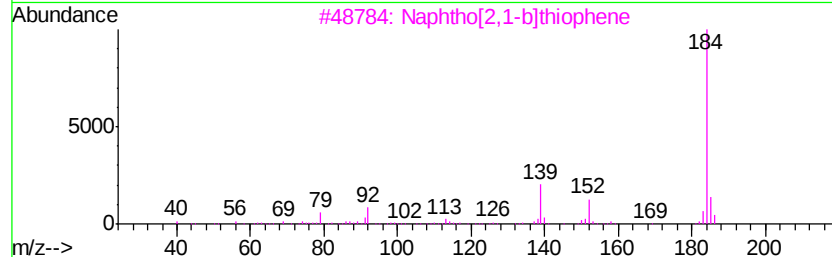
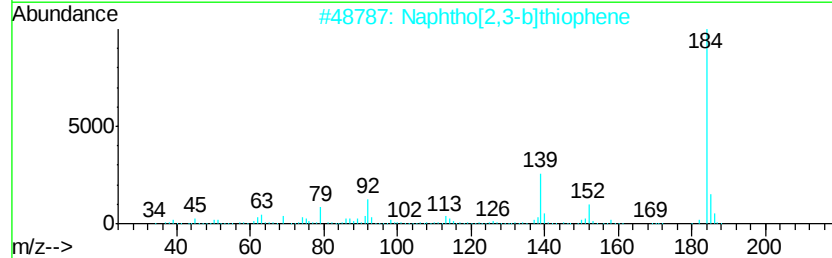
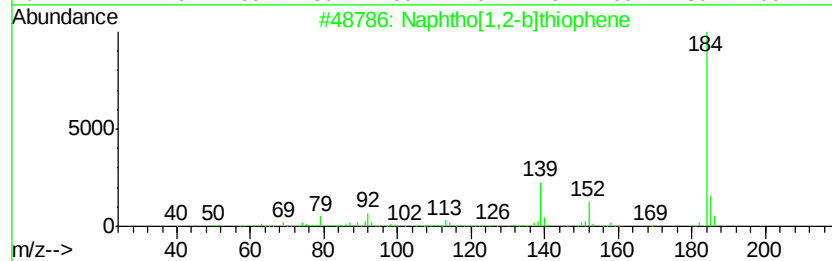
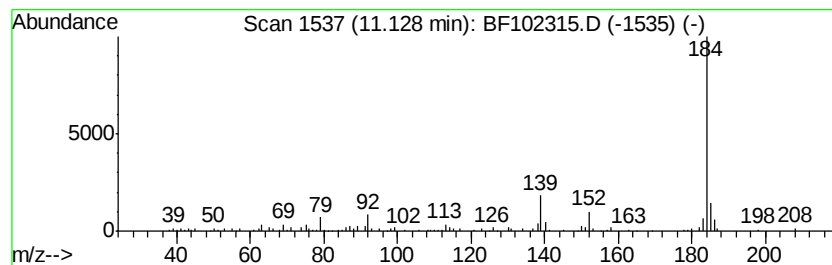
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Naphtho[1,2-b]thiophene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.13	4.06 ng	174414	Phenanthrene-d10	11.24

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	97
2		Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	97
3		Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	96
4		Dibenzothiophene	184	C12H8S	000132-65-0	95
5		Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91



Data Path : Z:\HPCHEM1\BNA F\DATA\BF012218\
Data File : BF102315.D
Acq On : 22 Jan 2018 22:31
Operator : SJ/JU
Sample : J1238-05 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

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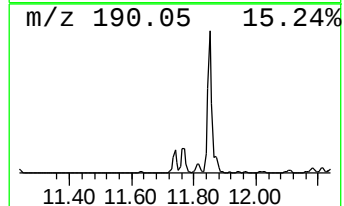
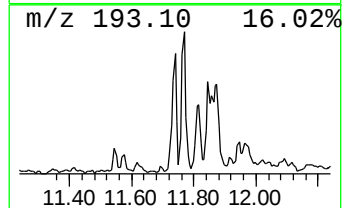
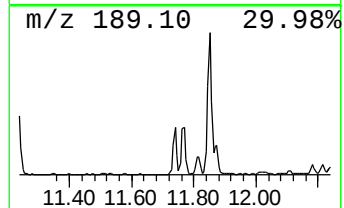
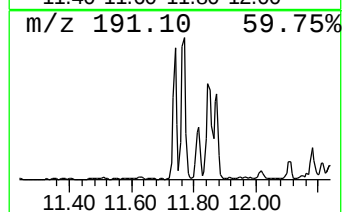
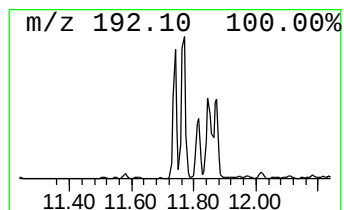
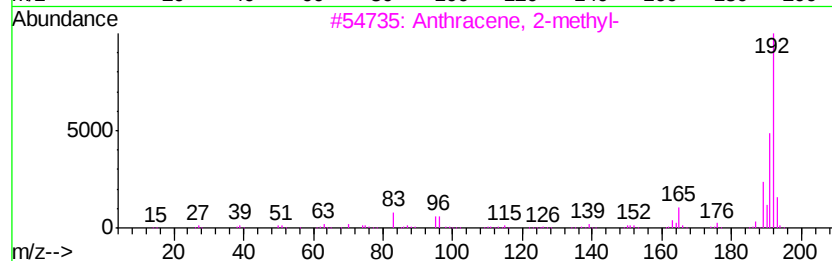
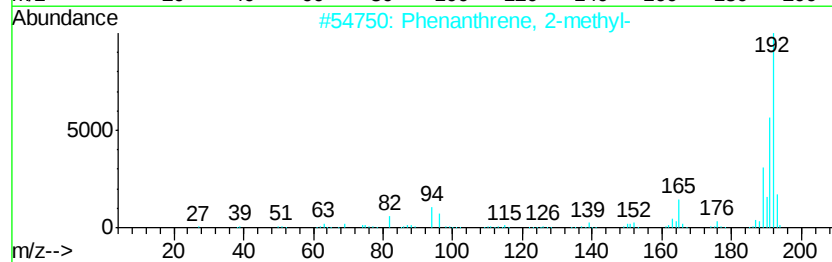
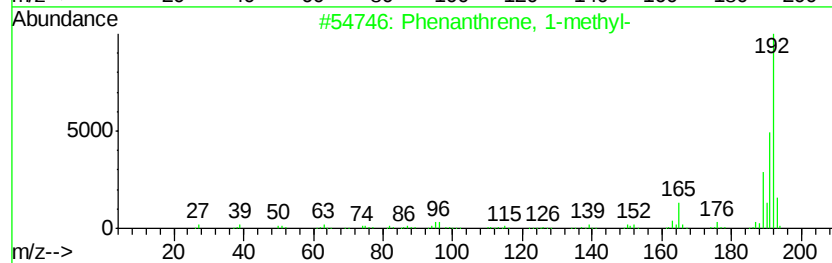
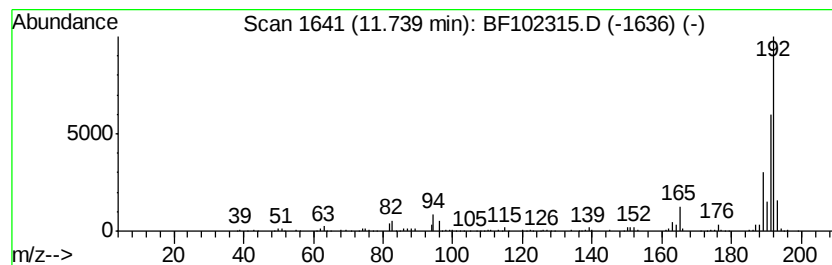
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.74	7.96 ng	342525	Phenanthrene-d10	11.24

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[1,1]phenanthrene, 1a,...	192	C15H12	000949-41-7	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	94



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF012218\
Data File : BF102315.D
Acq On : 22 Jan 2018 22:31
Operator : SJ/JU
Sample : J1238-05 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

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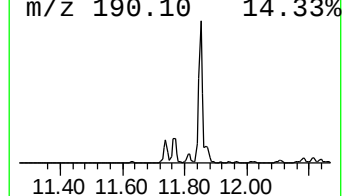
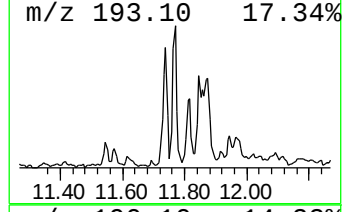
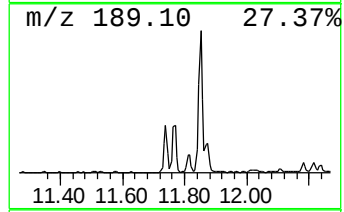
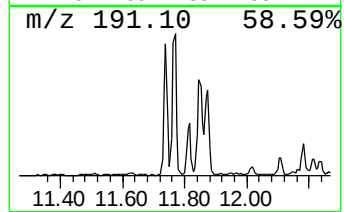
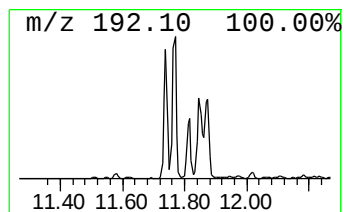
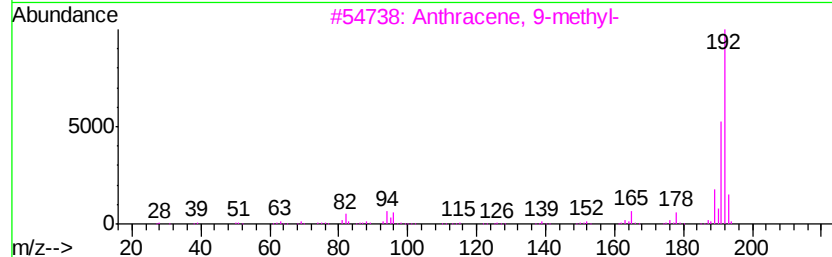
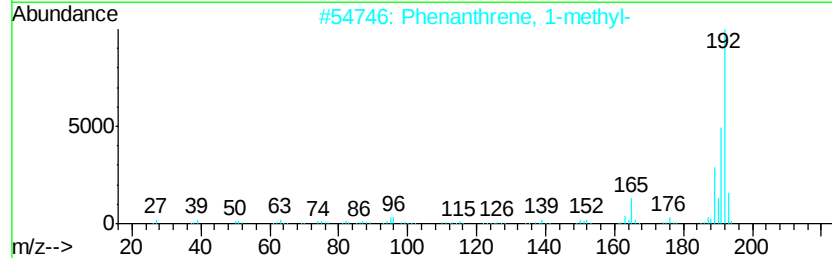
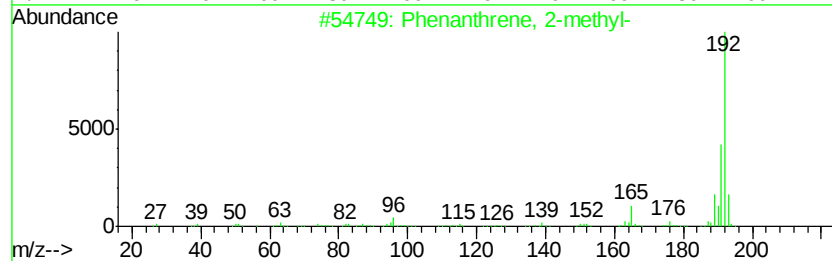
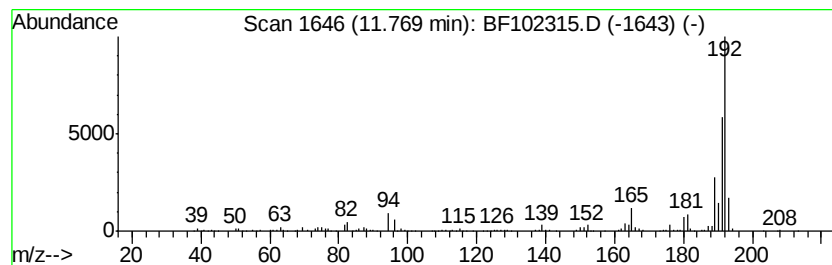
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.77	9.77 ng	420019	Phenanthrene-d10	11.24

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
3		Anthracene, 9-methyl-	192	C15H12	000779-02-2	95
4		Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
5		1H-Cyclopropa[1]phenanthrene, 1a, ...	192	C15H12	000949-41-7	92



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF012218\
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Misc :
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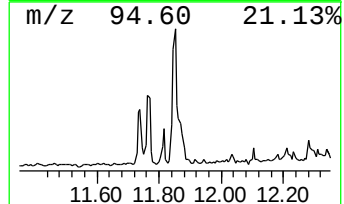
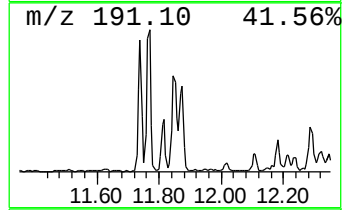
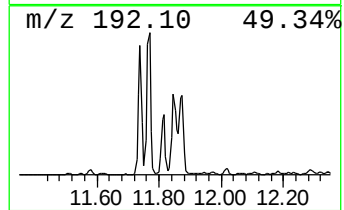
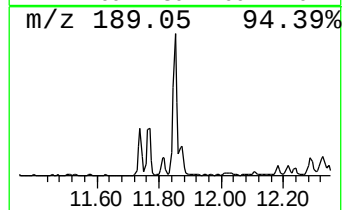
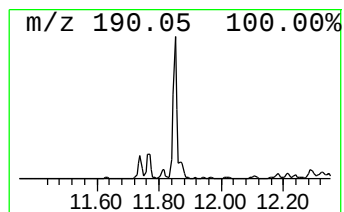
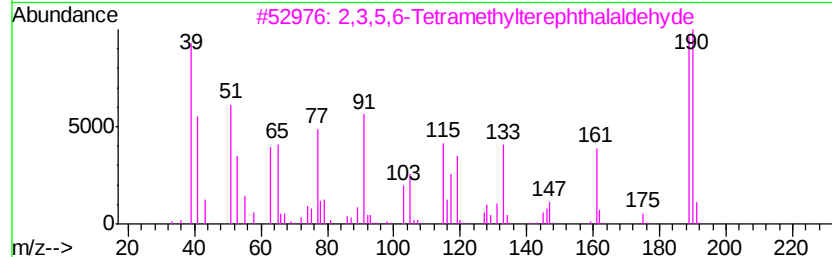
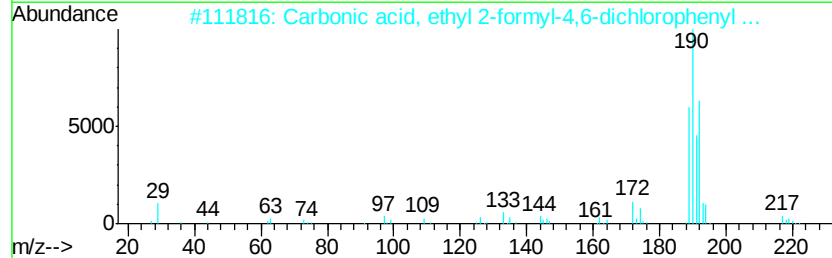
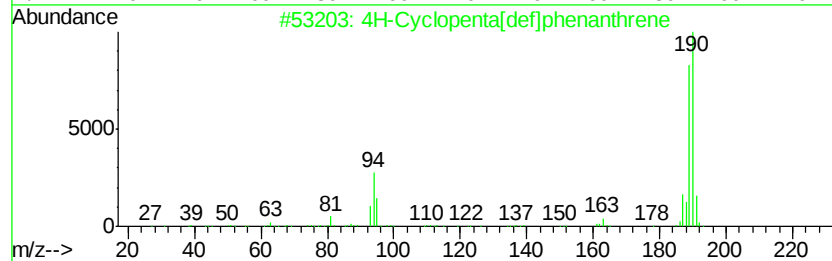
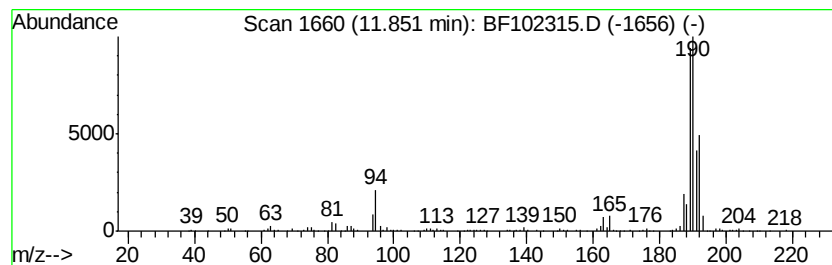
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.85	12.75 ng	548227	Phenanthrene-d10	11.24	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
2	Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	50
3	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	43
4	2,6-Dichlorobenzaldoxime	189	C7H5Cl2NO	025185-95-9	42
5	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	42



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF012218\
Data File : BF102315.D
Acq On : 22 Jan 2018 22:31
Operator : SJ/JU
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Misc :
ALS Vial : 20 Sample Multiplier: 1

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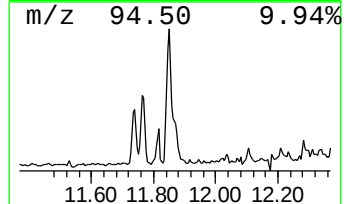
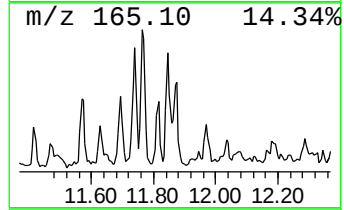
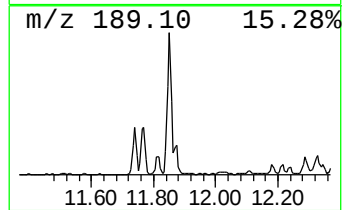
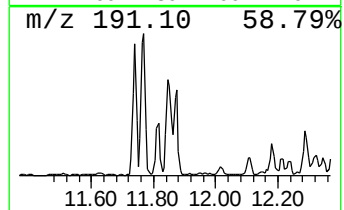
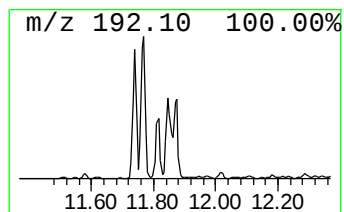
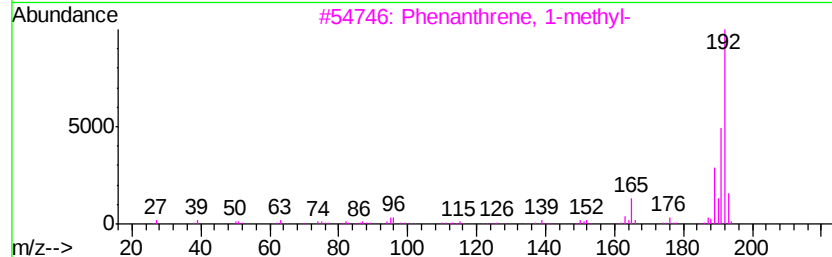
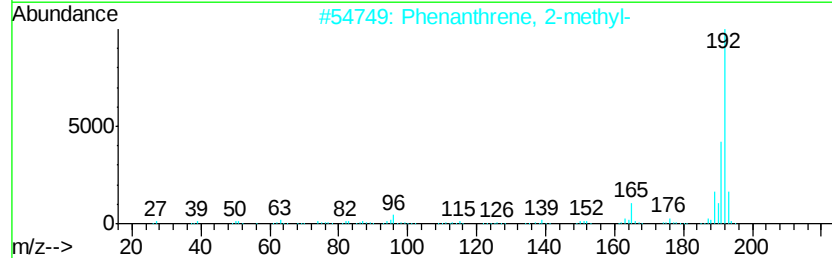
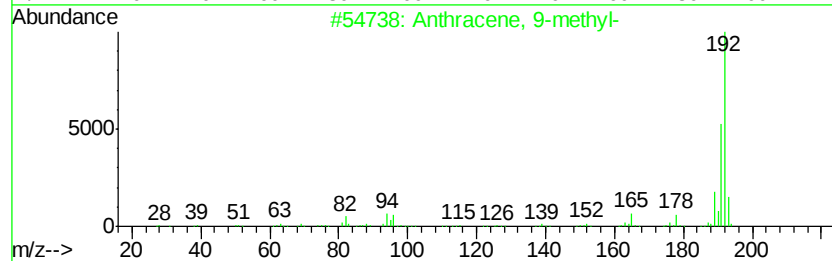
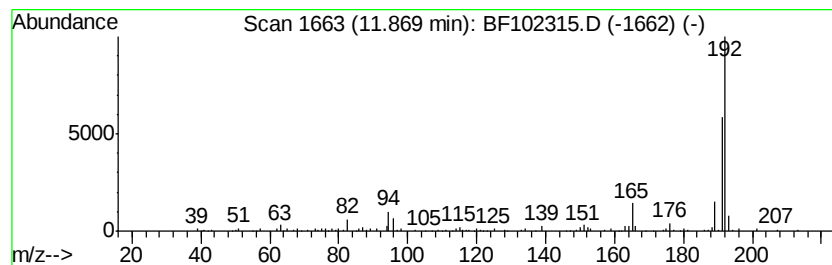
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Anthracene, 9-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.87	4.80 ng	206240	Phenanthrene-d10	11.24

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Anthracene, 9-methyl-	192	C15H12	000779-02-2	87
2			Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	81
3			Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	81
4			Propyne, 1,3-diphenyl-	192	C15H12	004980-70-5	74
5			Anthracene, 2-methyl-	192	C15H12	000613-12-7	74



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF012218\
Data File : BF102315.D
Acq On : 22 Jan 2018 22:31
Operator : SJ/JU
Sample : J1238-05 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

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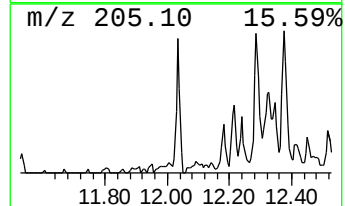
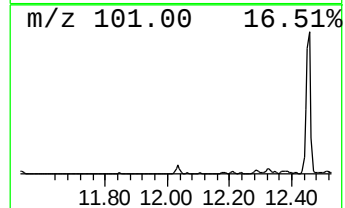
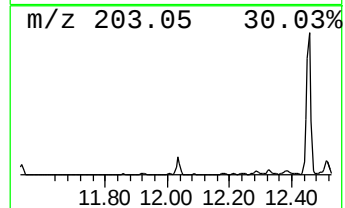
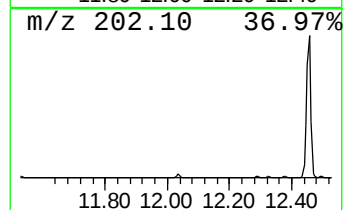
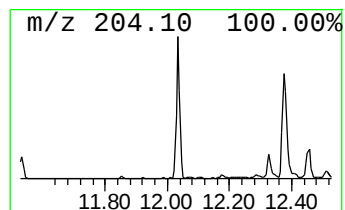
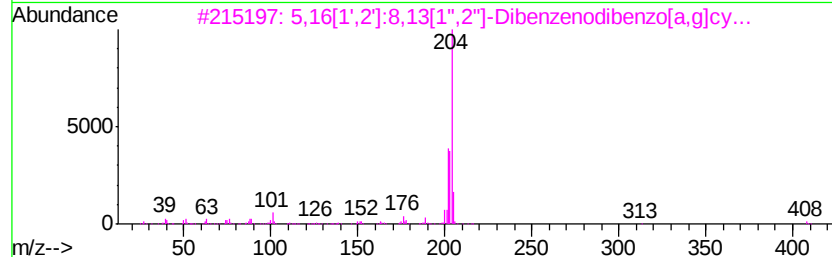
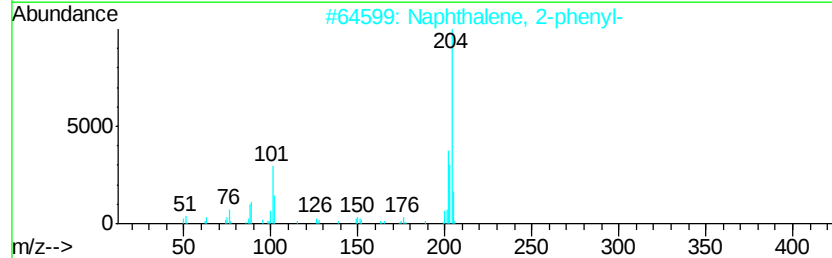
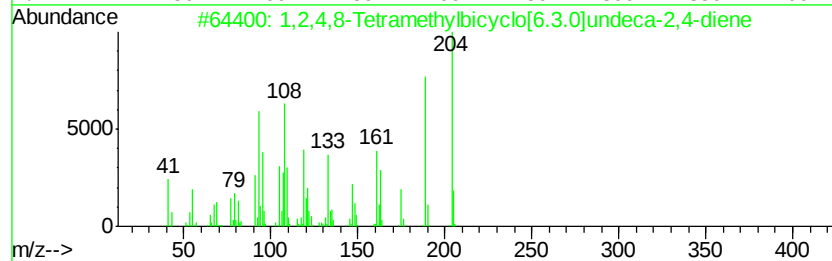
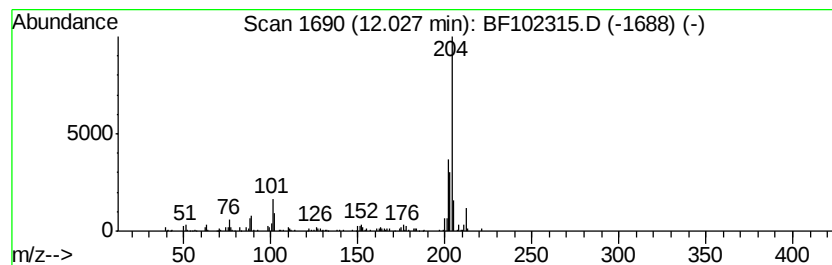
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 1,2,4,8-Tetramethylbicyclo[...] Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.03	4.66 ng	200343	Phenanthrene-d10	11.24

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene	204	C15H24	137235-51-9	89
2		Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
3		5,16[1',2']-8,13[1'',2'']-Dibenz[1,2-b:4,5-b']-diphenyl	408	C32H24	005672-97-9	83
4		9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	78
5		Tricyclo[8.2.2.2(4,7)]hexadeca-2,4,6,8-tetraene	204	C16H12	006572-60-7	70



Data Path : Z:\HPCHEM1\BNA F\DATA\BF012218\
Data File : BF102315.D
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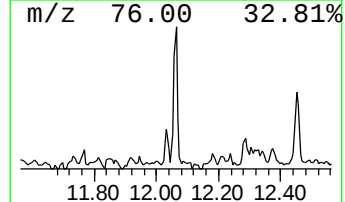
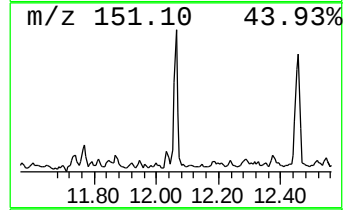
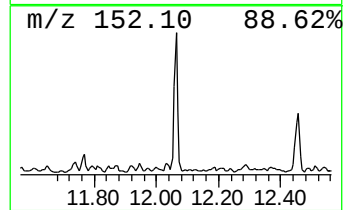
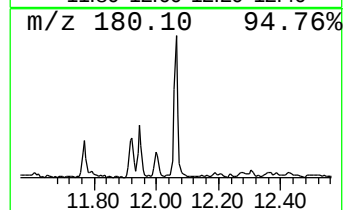
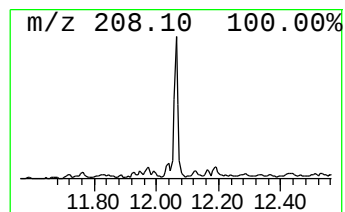
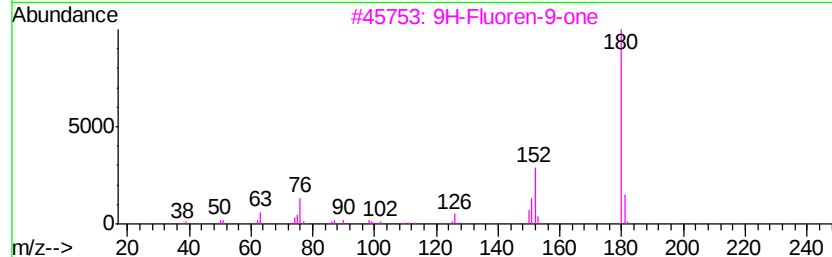
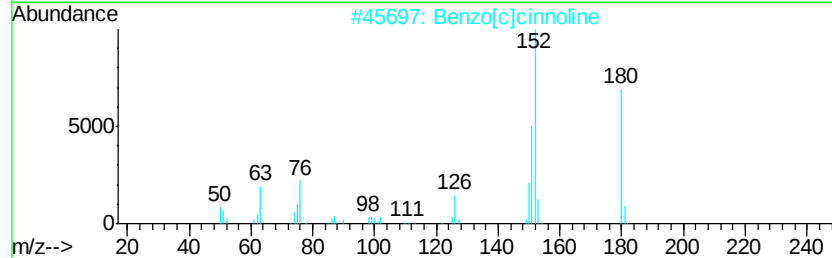
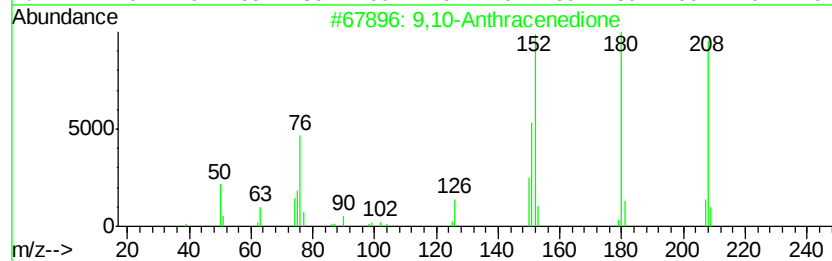
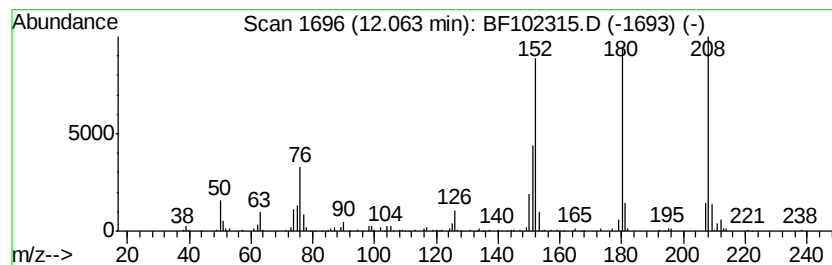
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 9,10-Anthracenedione Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.06	4.29 ng	184409	Phenanthrene-d10	11.24

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2		Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64
3		9H-Fluoren-9-one	180	C13H8O	000486-25-9	58
4		1H-Phenalen-1-one	180	C13H8O	000548-39-0	53
5		Benzo[h]cinnoline	180	C12H8N2	000230-31-9	52



Data Path : Z:\HPCHEM1\BNA F\DATA\BF012218\
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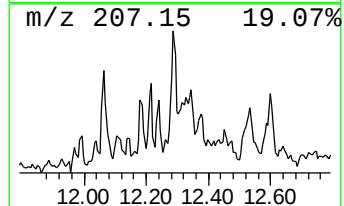
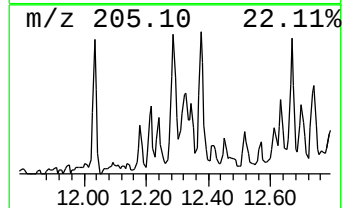
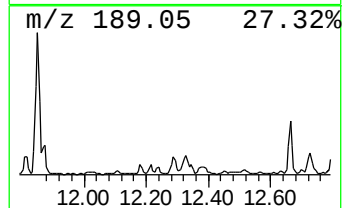
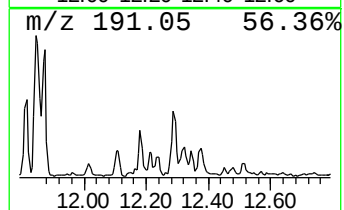
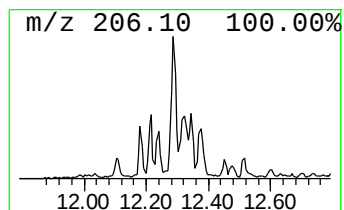
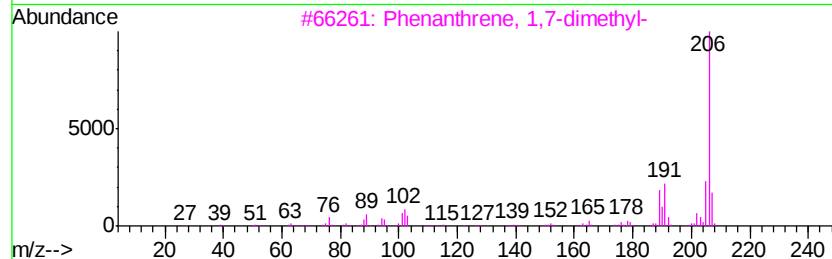
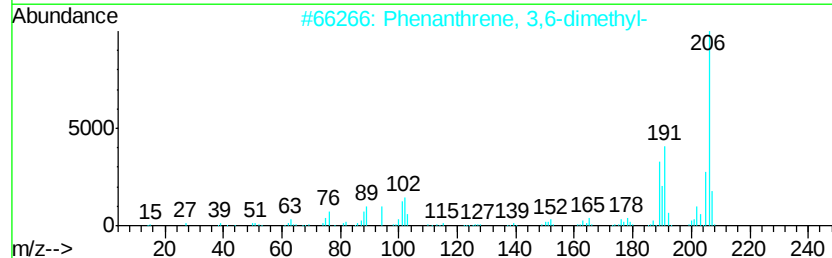
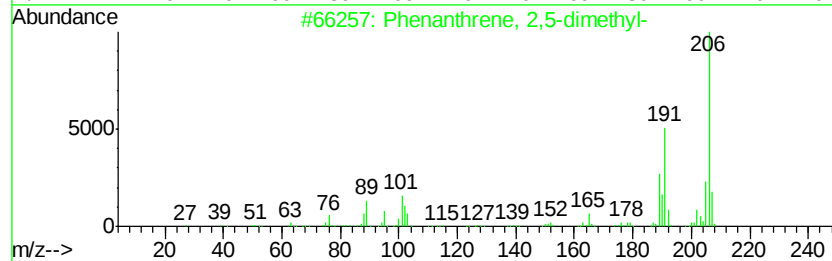
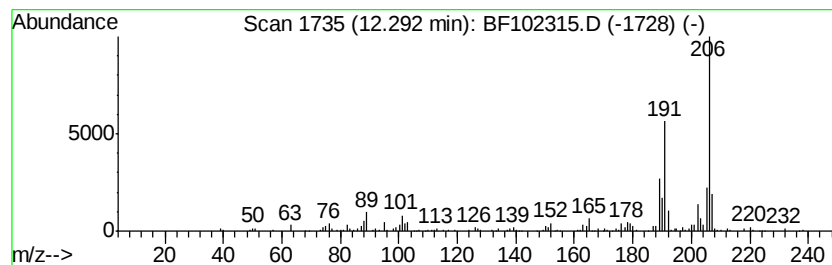
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 16 Phenanthrene, 2,5-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.29	5.44 ng	233769	Phenanthrene-d10	11.24

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	98
2			Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
3			Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
4			Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
5			di-p-Tolylacetylene	206	C16H14	002789-88-0	92



Data Path : Z:\HPCHEM1\BNA F\DATA\BF012218\
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ALS Vial : 20 Sample Multiplier: 1

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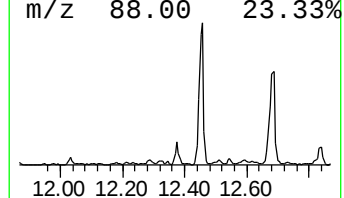
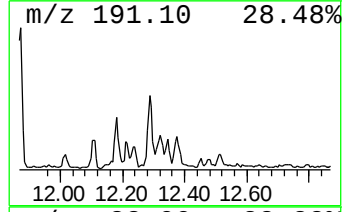
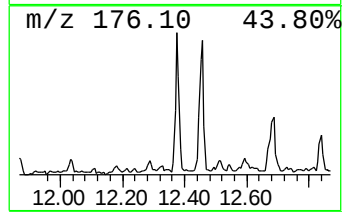
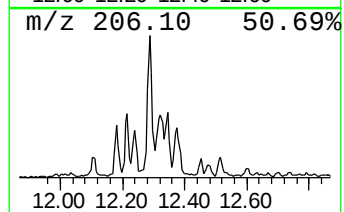
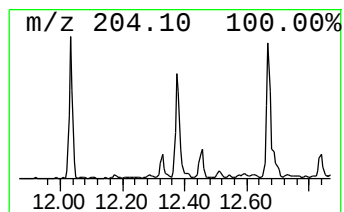
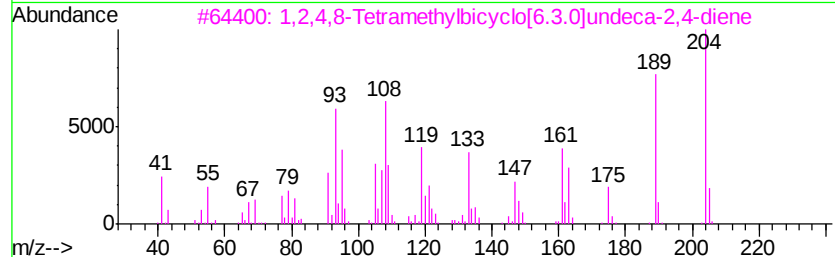
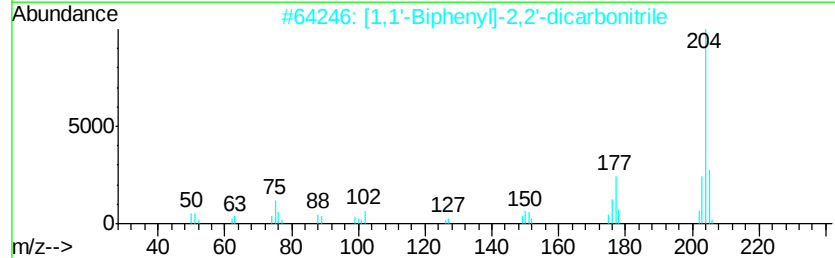
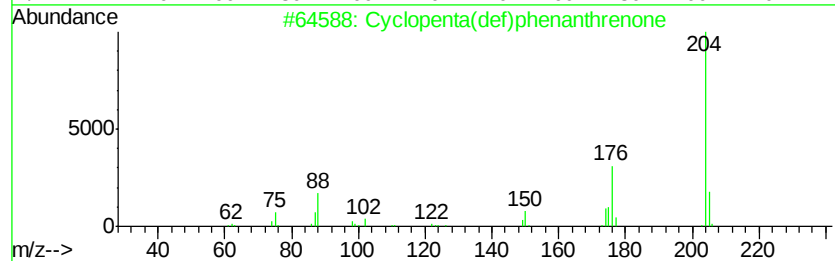
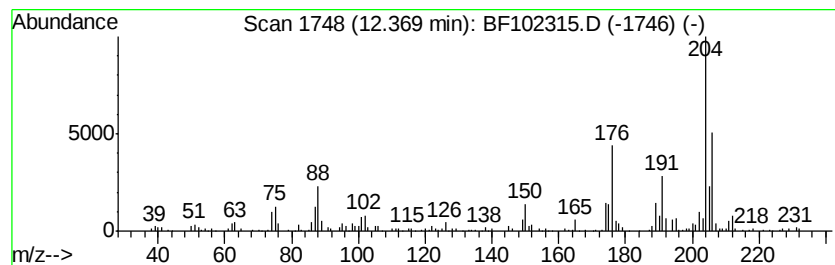
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Cyclopenta(def)phenanthrenone Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.37	6.24 ng	268315	Phenanthrene-d10	11.24

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	97
2		[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	46
3		1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene	204	C15H24	137235-51-9	45
4		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	43
5		3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	33



Data Path : Z:\HPCHEM1\BNA F\DATA\BF012218\
Data File : BF102315.D
Acq On : 22 Jan 2018 22:31
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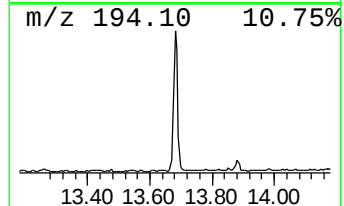
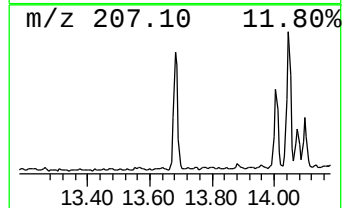
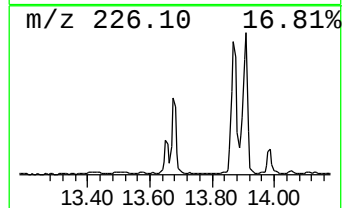
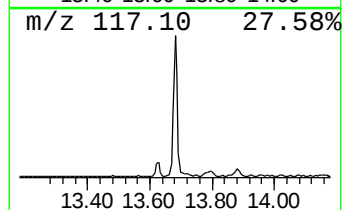
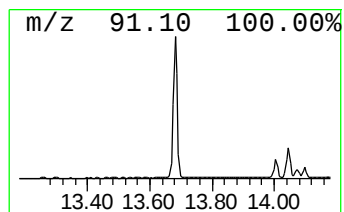
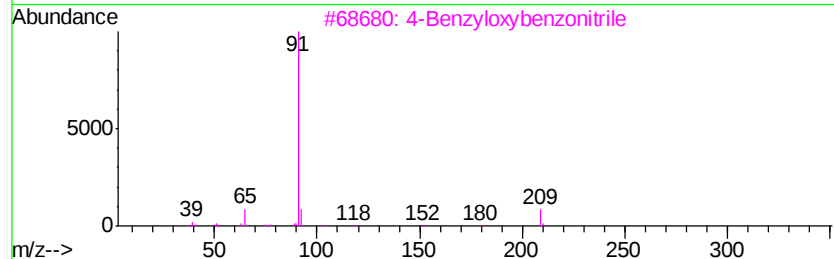
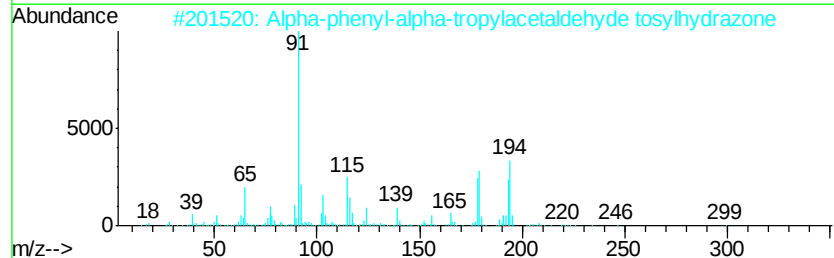
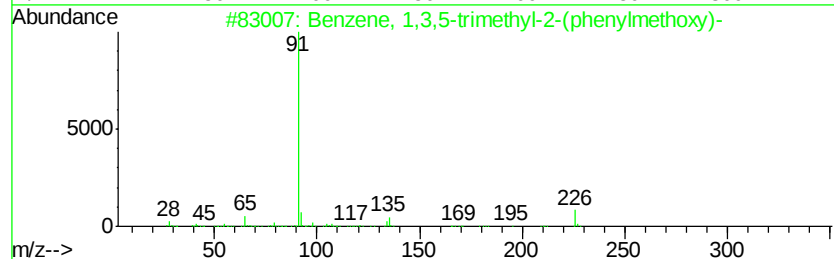
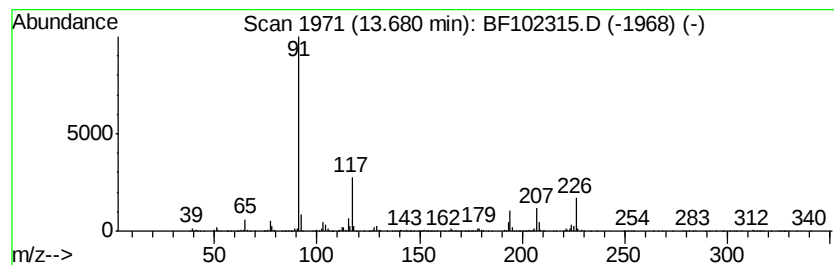
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 unknown13.68 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.68	8.55 ng	1132430	Chrysene-d12	13.88

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1,3,5-trimethyl-2-(phen...	226	C16H18O	019578-76-8	14
2			Alpha-phenyl-alpha-tropylacetal...	378	C22H22N2O2S	022532-16-7	10
3			4-Benzylloxylbenzonitrile	209	C14H11NO	052805-36-4	10
4			2-Propanamine, N,N-dibenzyl	239	C17H21N	055578-14-8	10
5			4-Benzylloxy-3-methoxy-2-nitroben...	303	C15H13NO6	003584-32-5	10



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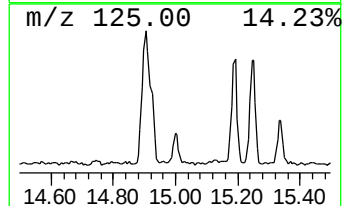
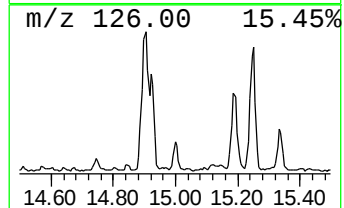
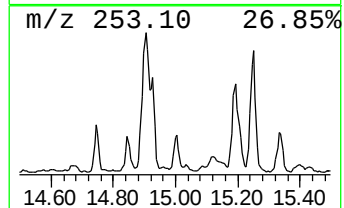
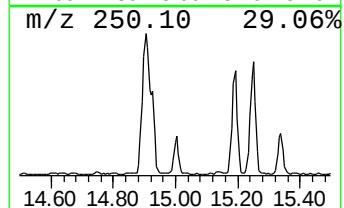
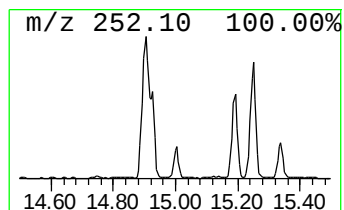
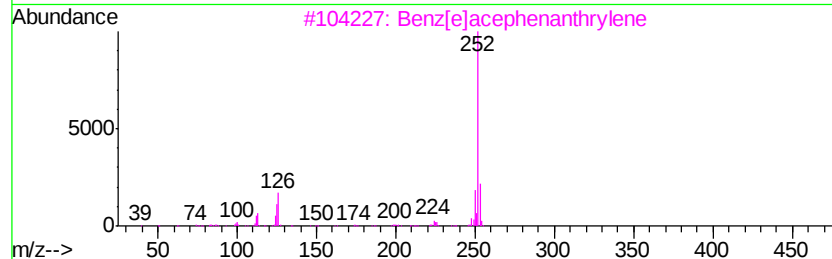
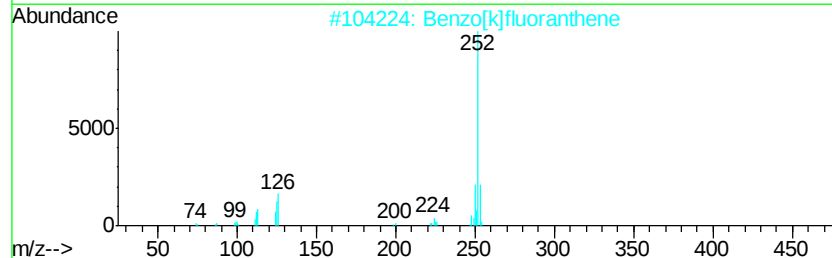
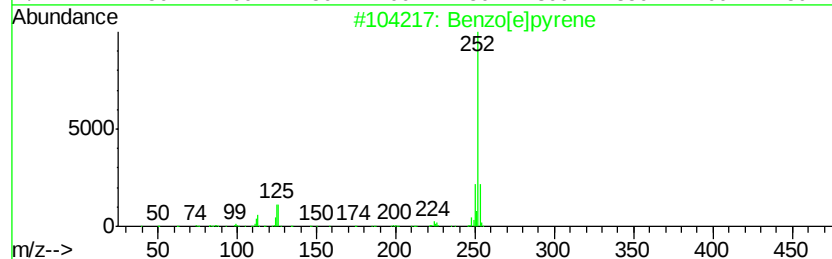
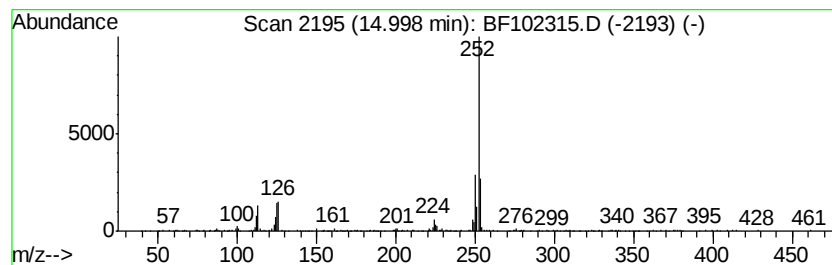
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 19 Benzo[e]pyrene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.00	7.65 ng	210356	Perylene-d12	15.31

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzo[e]pyrene	252	C20H12	000192-97-2	96
2			Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
3			Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	93
4			Benzo[i]fluoranthene	252	C20H12	000205-82-3	89
5			Benzo[a]pyrene	252	C20H12	000050-32-8	87



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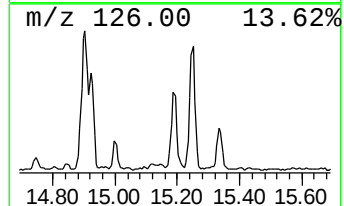
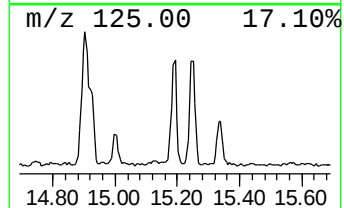
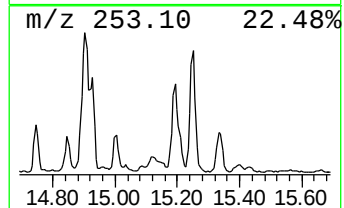
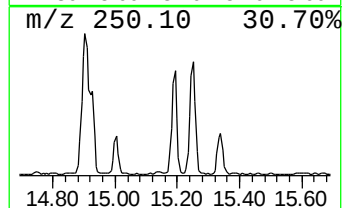
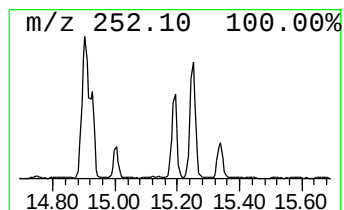
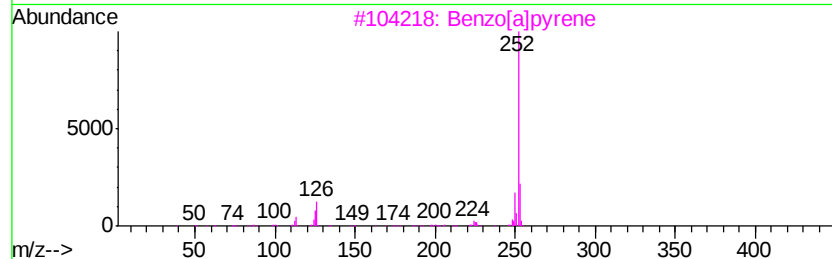
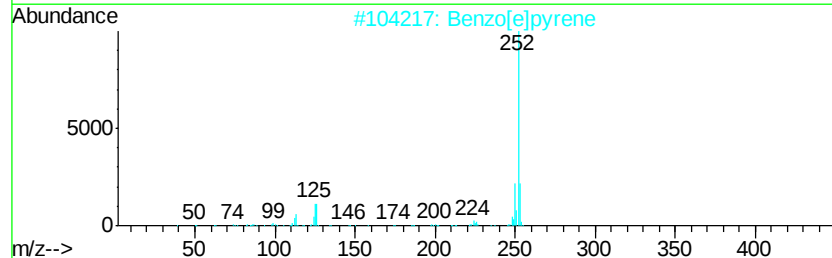
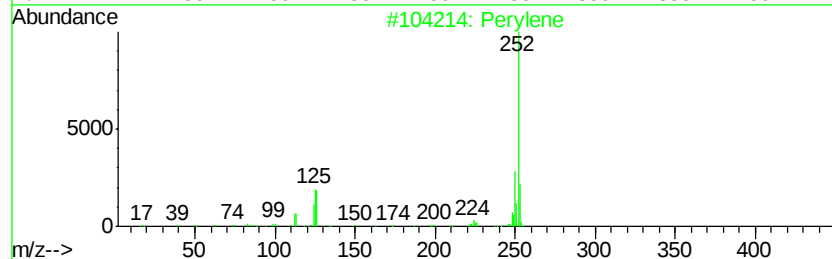
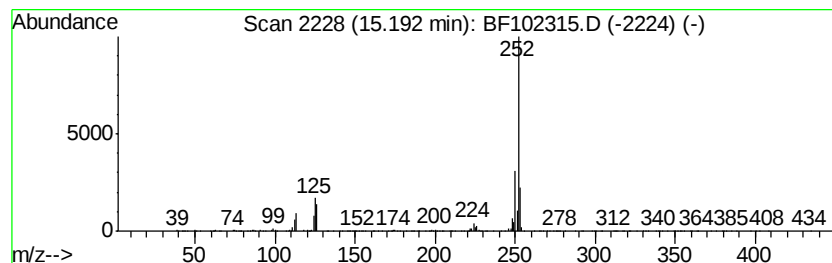
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Perylene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.19	27.38 ng	753385	Perylene-d12	15.31

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[a]pyrene	252	C20H12	000050-32-8	96
4		Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
5		Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF012218\
 Data File : BF102315.D
 Acq On : 22 Jan 2018 22:31
 Operator : SJ/JU
 Sample : J1238-05 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-09-0-2.0

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF012218.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
1,3,5,7-Cycloocta...	5.53	24.3	ng	947298	1	6.72	779575	20.0
unknown6.49	6.49	36.6	ng	1427100	1	6.72	779575	20.0
unknown10.87	10.87	5.3	ng	227426	4	11.24	860127	20.0
Benzene, 1,1'-(1,...	11.01	3.8	ng	163556	4	11.24	860127	20.0
9H-Fluoren-9-one	11.05	4.4	ng	188071	4	11.24	860127	20.0
Naphtho[1,2-b]thi...	11.13	4.1	ng	174414	4	11.24	860127	20.0
Phenanthrene, 1-m...	11.74	8.0	ng	342525	4	11.24	860127	20.0
Phenanthrene, 2-m...	11.77	9.8	ng	420019	4	11.24	860127	20.0
4H-Cyclopenta[def...	11.85	12.8	ng	548227	4	11.24	860127	20.0
Anthracene, 9-met...	11.87	4.8	ng	206240	4	11.24	860127	20.0
1,2,4,8-Tetrameth...	12.03	4.7	ng	200343	4	11.24	860127	20.0
9,10-Anthracenedione	12.06	4.3	ng	184409	4	11.24	860127	20.0
Phenanthrene, 2,5...	12.29	5.4	ng	233769	4	11.24	860127	20.0
Cyclopenta(def)ph...	12.37	6.2	ng	268315	4	11.24	860127	20.0
unknown13.68	13.68	8.6	ng	1132430	5	13.88	2649630	20.0
Benzo[e]pyrene	15.00	7.7	ng	210356	6	15.31	550221	20.0
Perylene	15.19	27.4	ng	753385	6	15.31	550221	20.0