

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
 Data File : BF098559.D
 Acq On : 15 Sep 2017 10:27
 Operator : SJ/JU
 Sample : I5159-06
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 G-9-1

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-BF091117.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	4.816	461	464	476	rVB	265992	410416	9.24%	0.480%
2	5.192	521	528	534	rBV	108184	142294	3.20%	0.167%
3	5.251	534	538	557	rVB	3421401	3558504	80.09%	4.165%
4	6.304	712	717	728	rVV	3297202	3712697	83.56%	4.346%
5	6.422	732	737	740	rVV	3945794	3635038	81.81%	4.255%
6	6.463	742	744	752	rVB2	126693	195631	4.40%	0.229%
7	6.639	771	774	781	rBV	901681	897753	20.21%	1.051%
8	6.798	797	801	804	rBV	3092913	2736530	61.59%	3.203%
9	7.216	867	872	875	rBV	2399294	2191222	49.32%	2.565%
10	7.928	987	993	995	rBV	1329995	1356055	30.52%	1.587%
11	7.945	995	996	1000	rVV	868262	672251	15.13%	0.787%
12	8.298	1050	1056	1061	rBV3	99777	175371	3.95%	0.205%
13	8.522	1091	1094	1099	rBV	165721	147245	3.31%	0.172%
14	8.639	1108	1114	1121	rBV	987897	930200	20.94%	1.089%
15	8.739	1128	1131	1134	rVB	476147	400827	9.02%	0.469%
16	9.004	1170	1176	1179	rBV	4153200	4046032	91.06%	4.736%
17	9.104	1185	1193	1196	rBV2	365755	473568	10.66%	0.554%
18	9.198	1206	1209	1213	rVB	113536	127217	2.86%	0.149%
19	9.263	1216	1220	1224	rVB	235655	325960	7.34%	0.382%
20	9.339	1229	1233	1235	rBV	326190	313205	7.05%	0.367%
21	9.363	1235	1237	1241	rVV	247407	223580	5.03%	0.262%
22	9.404	1241	1244	1247	rVB	607744	490037	11.03%	0.574%
23	9.457	1247	1253	1257	rBV2	200584	275199	6.19%	0.322%
24	9.539	1264	1267	1272	rVB	520454	421391	9.48%	0.493%
25	9.616	1277	1280	1283	rVB	209530	157806	3.55%	0.185%
26	9.680	1283	1291	1294	rBV2	1302820	1359912	30.61%	1.592%
27	9.710	1294	1296	1300	rVB2	401492	348556	7.84%	0.408%
28	9.786	1306	1309	1313	rVB2	104665	135953	3.06%	0.159%
29	9.839	1313	1318	1322	rBV6	70244	156222	3.52%	0.183%
30	9.880	1322	1325	1330	rVV	851132	843046	18.97%	0.987%
31	9.922	1330	1332	1339	rVB3	116775	130907	2.95%	0.153%
32	10.086	1355	1360	1362	rBV5	162146	221245	4.98%	0.259%
33	10.116	1362	1365	1367	rVB2	209606	197261	4.44%	0.231%
34	10.222	1380	1383	1390	rVB2	376836	441701	9.94%	0.517%

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35	10.333	1400	1402	1404	rVV	165332	150638	3.39%	0.176%
36	10.380	1407	1410	1414	rVB	253794	256743	5.78%	0.301%
37	10.469	1419	1425	1429	rBV	2135098	2265676	50.99%	2.652%
38	10.598	1442	1447	1451	rBV3	443412	610471	13.74%	0.715%
39	10.904	1496	1499	1501	rBV2	128147	145943	3.28%	0.171%
40	10.974	1508	1511	1514	rVB	564237	454997	10.24%	0.533%
41	11.010	1514	1517	1519	rBV2	125916	147760	3.33%	0.173%
42	11.033	1519	1521	1523	rVV	513837	402530	9.06%	0.471%
43	11.057	1523	1525	1530	rVB2	268418	238421	5.37%	0.279%
44	11.163	1539	1543	1545	rBV	1149452	1146021	25.79%	1.341%
45	11.186	1545	1547	1550	rVV	2445124	2091722	47.08%	2.448%
46	11.239	1550	1556	1559	rVV	1034323	953587	21.46%	1.116%
47	11.274	1559	1562	1565	rVV2	149676	143407	3.23%	0.168%
48	11.398	1577	1583	1590	rBV2	426611	570868	12.85%	0.668%
49	11.457	1590	1593	1597	rVV2	269846	269592	6.07%	0.316%
50	11.504	1597	1601	1604	rVB3	132677	180544	4.06%	0.211%
51	11.574	1610	1613	1619	rVB3	100617	118561	2.67%	0.139%
52	11.663	1625	1628	1630	rBV	369318	313968	7.07%	0.368%
53	11.692	1630	1633	1638	rVV	521014	530313	11.94%	0.621%
54	11.739	1638	1641	1643	rVB2	173567	161165	3.63%	0.189%
55	11.774	1643	1647	1650	rBV2	790003	1010042	22.73%	1.182%
56	11.869	1661	1663	1666	rVV2	174671	165078	3.72%	0.193%
57	11.957	1675	1678	1681	rVV	438861	441339	9.93%	0.517%
58	11.992	1681	1684	1688	rVB	577730	504985	11.37%	0.591%
59	12.139	1707	1709	1711	rBV	158391	122013	2.75%	0.143%
60	12.163	1711	1713	1716	rVB2	133620	120452	2.71%	0.141%
61	12.216	1718	1722	1724	rBV	335640	346178	7.79%	0.405%
62	12.251	1724	1728	1730	rBV2	281633	294335	6.62%	0.345%
63	12.304	1734	1737	1741	rBV2	599902	614195	13.82%	0.719%
64	12.380	1745	1750	1753	rBV	4074535	4033894	90.79%	4.722%
65	12.421	1754	1757	1759	rBV	120779	120661	2.72%	0.141%
66	12.521	1771	1774	1778	rVB	303464	259872	5.85%	0.304%
67	12.610	1782	1789	1792	rBV2	3614486	4374844	98.46%	5.121%
68	12.657	1794	1797	1801	rVB2	223148	299001	6.73%	0.350%
69	12.721	1805	1808	1810	rBV	346936	389665	8.77%	0.456%
70	12.751	1810	1813	1820	rVB2	3000801	3159619	71.11%	3.699%
71	12.827	1821	1826	1830	rBV2	367891	616995	13.89%	0.722%

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72	12.910	1837	1840	1841	rBV3	266747	279632	6.29%	0.327%
73	12.933	1842	1844	1847	rVB	503268	423445	9.53%	0.496%
74	12.998	1847	1855	1858	rBV3	325409	581272	13.08%	0.680%
75	13.033	1858	1861	1869	rVB3	486762	626501	14.10%	0.733%
76	13.127	1874	1877	1879	rBV	361650	293800	6.61%	0.344%
77	13.157	1879	1882	1891	rVB4	510668	693207	15.60%	0.811%
78	13.221	1891	1893	1895	rBV3	150804	133150	3.00%	0.156%
79	13.445	1928	1931	1935	rVB	734391	628292	14.14%	0.735%
80	13.551	1946	1949	1952	rBV	587284	598293	13.47%	0.700%
81	13.574	1952	1953	1956	rVV	332679	267980	6.03%	0.314%
82	13.604	1956	1958	1960	rVV	416609	397826	8.95%	0.466%
83	13.657	1964	1967	1970	rVV2	721715	758954	17.08%	0.888%
84	13.680	1970	1971	1974	rVB	197979	154013	3.47%	0.180%
85	13.798	1985	1991	1995	rBV4	2020439	3883934	87.41%	4.546%
86	13.833	1995	1997	2000	rVB	2239756	1980452	44.57%	2.318%
87	14.192	2056	2058	2061	rVB	373446	309439	6.96%	0.362%
88	14.227	2061	2064	2065	rBV	194763	213863	4.81%	0.250%
89	14.315	2076	2079	2081	rBV	282284	281473	6.33%	0.329%
90	14.504	2109	2111	2120	rVB3	241460	358270	8.06%	0.419%
91	14.668	2136	2139	2143	rBV2	334899	407576	9.17%	0.477%
92	14.827	2160	2166	2172	rBV2	2192394	4443200	100.00%	5.201%
93	14.921	2179	2182	2185	rVB	383923	409171	9.21%	0.479%
94	15.104	2208	2213	2218	rVB	1354287	1701445	38.29%	1.992%
95	15.162	2218	2223	2226	rVV	1182872	1474850	33.19%	1.726%
96	15.215	2228	2232	2234	rVV	674171	830157	18.68%	0.972%
97	15.245	2234	2237	2242	rVB2	436166	597597	13.45%	0.700%
98	16.209	2398	2401	2407	rVB4	180751	242626	5.46%	0.284%
99	16.562	2455	2461	2475	rVB2	723986	1691234	38.06%	1.980%
100	16.968	2524	2530	2539	rVB	456237	890994	20.05%	1.043%

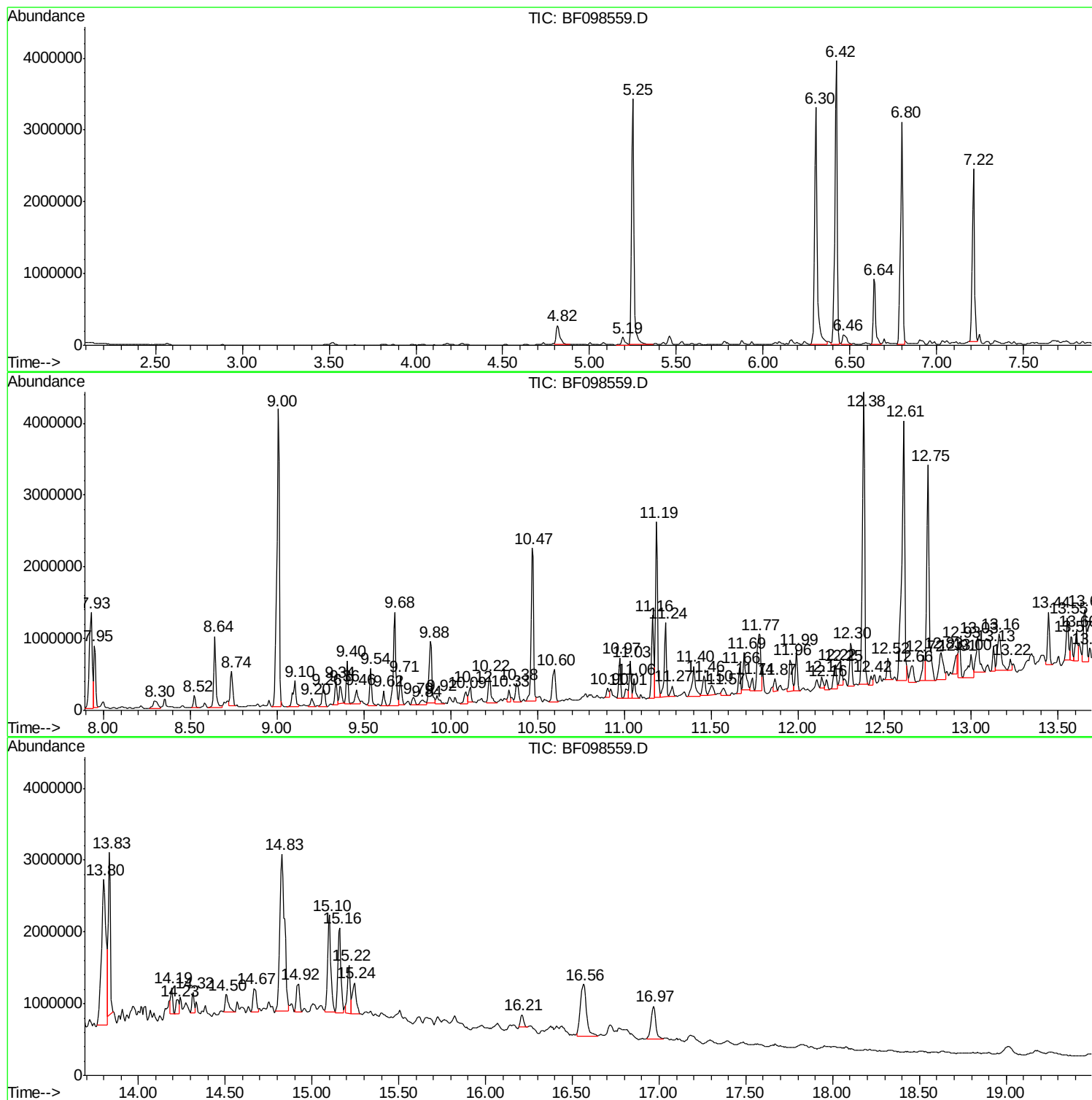
Sum of corrected areas: 85429573

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Instrument :
BNA_F
ClientSampled :
G-9-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.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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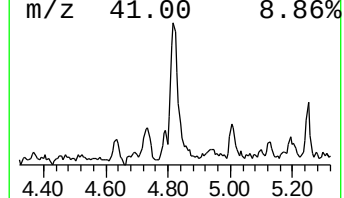
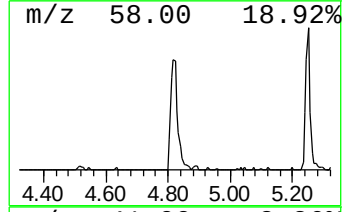
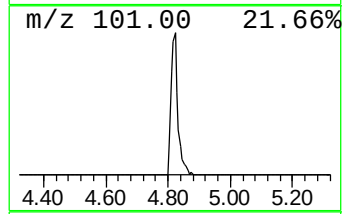
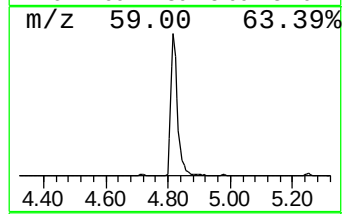
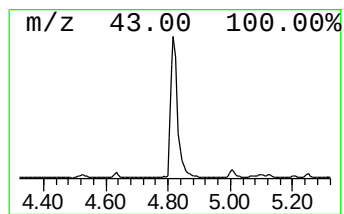
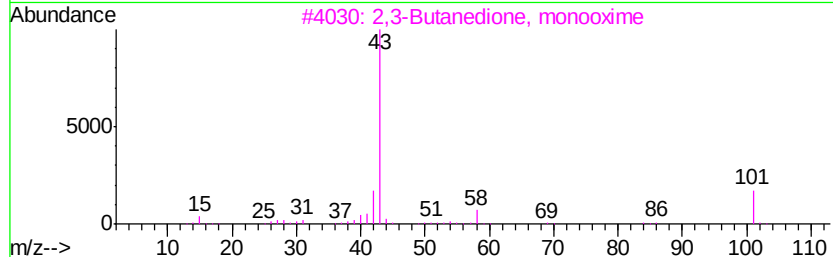
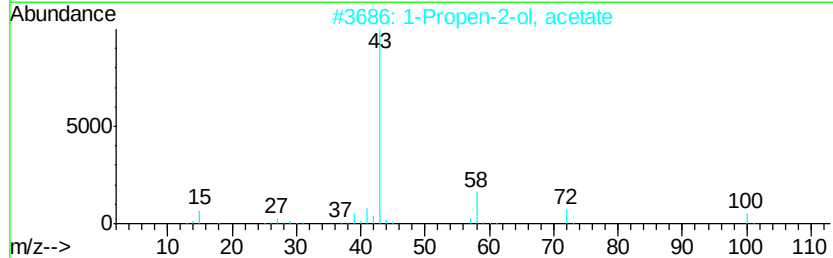
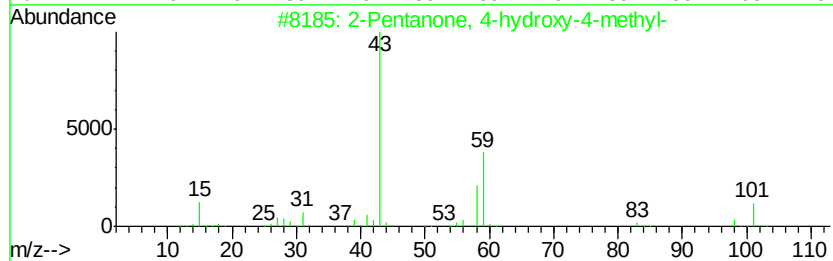
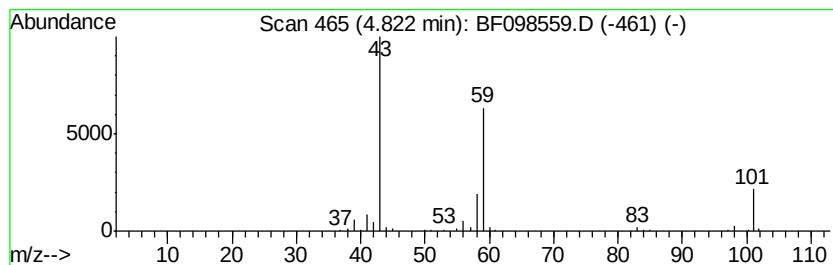
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.82	9.14 ng	410416	1,4-Dichlorobenzene-d4	6.65

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	50
2	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	10
4	Guanidine	59	CH5N3	000113-00-8	9
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9



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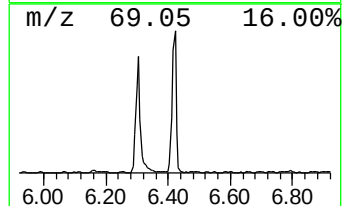
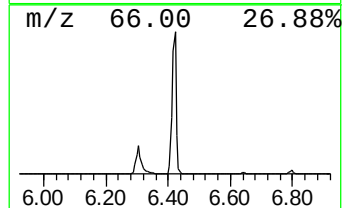
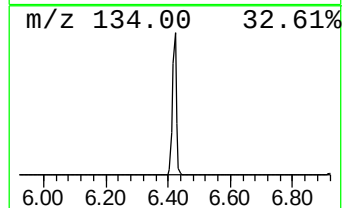
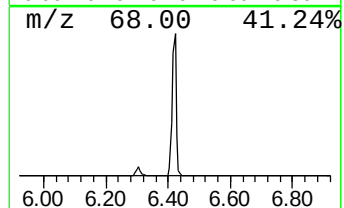
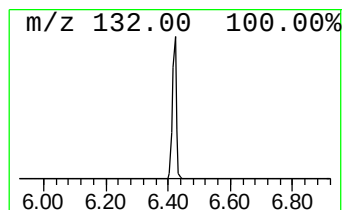
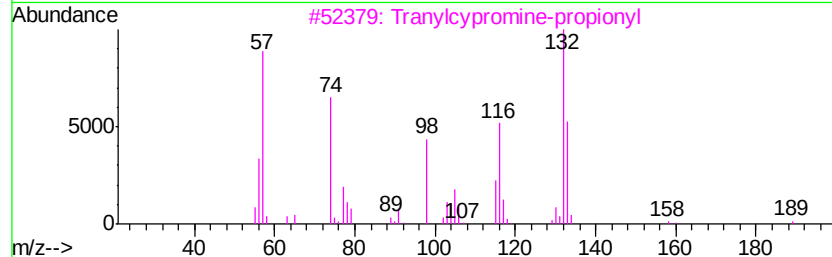
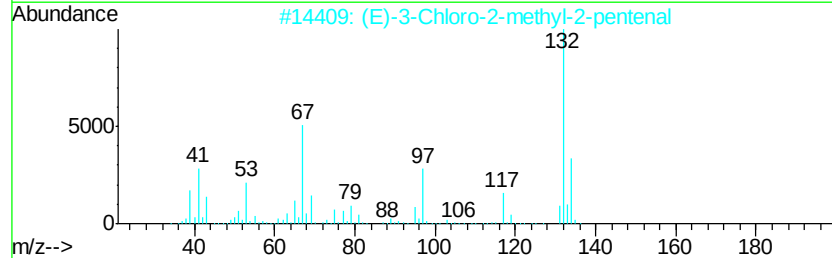
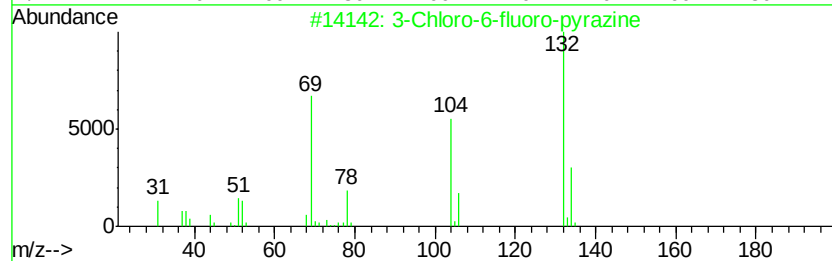
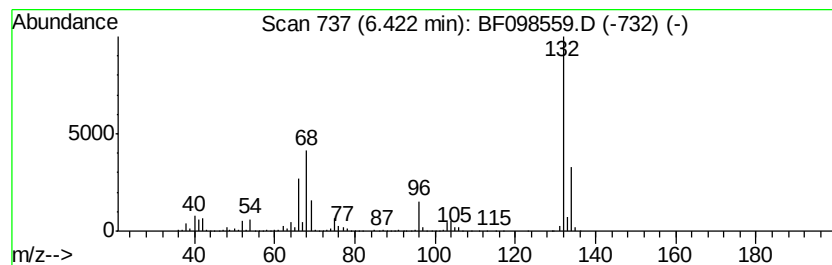
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 unknown6.42 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.42	80.98 ng	3635040	1,4-Dichlorobenzene-d4	6.65

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3		Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
4		Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
5		4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9



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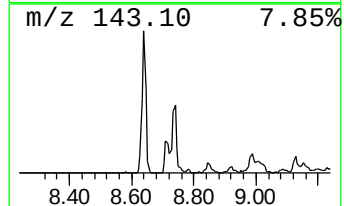
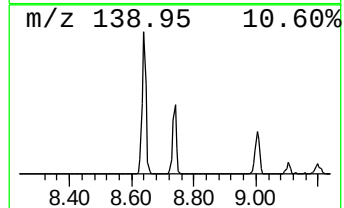
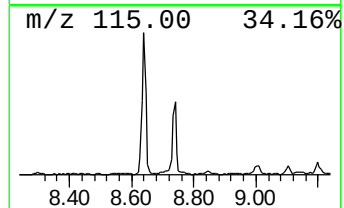
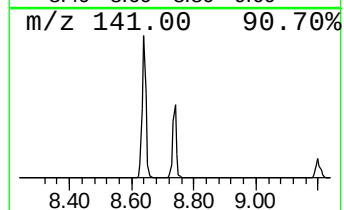
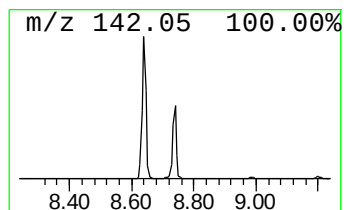
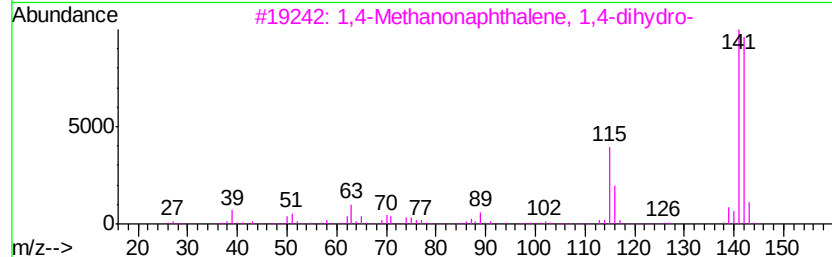
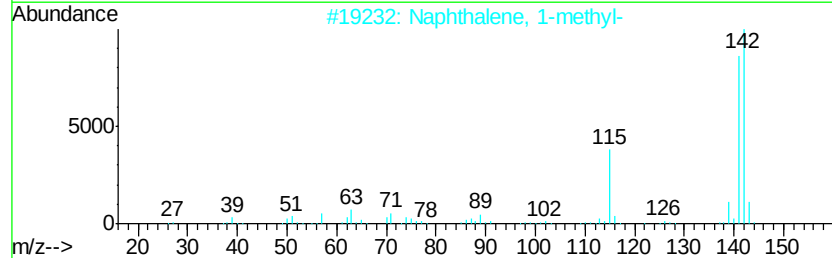
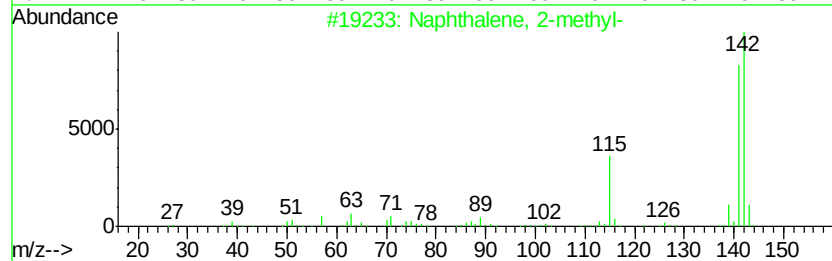
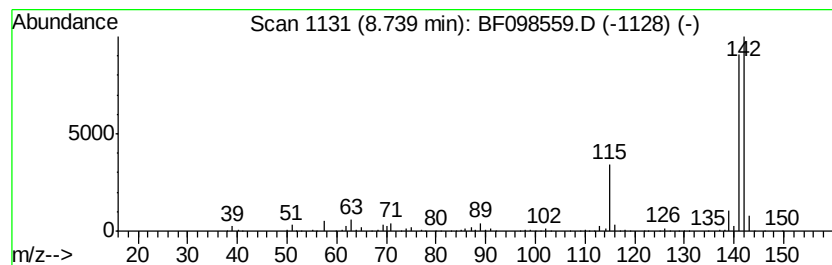
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Peak Number 4 Naphthalene, 1-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.74	5.91 ng	400827	Naphthalene-d8	7.93
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Naphthalene, 2-methyl-	142 C11H10	000091-57-6 94
2		Naphthalene, 1-methyl-	142 C11H10	000090-12-0 94
3		1,4-Methanonaphthalene, 1,4-dihy...	142 C11H10	004453-90-1 91
4		Benzocycloheptatriene	142 C11H10	000264-09-5 59
5		3-Indolecarbonitrile	142 C9H6N2	005457-28-3 43



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Acq On : 15 Sep 2017 10:27
Operator : SJ/JU
Sample : I5159-06
Misc :
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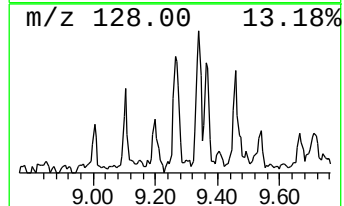
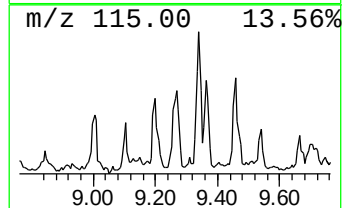
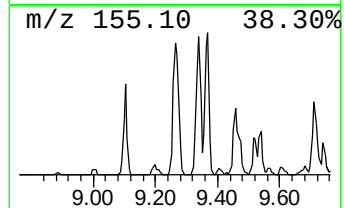
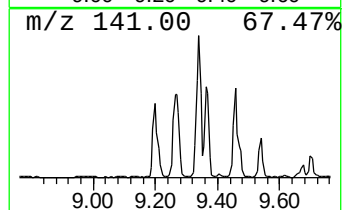
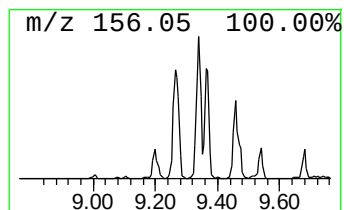
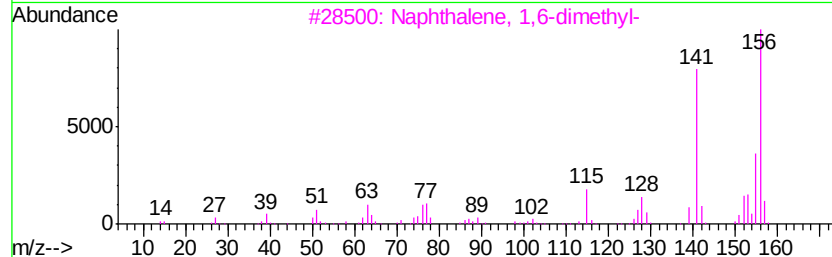
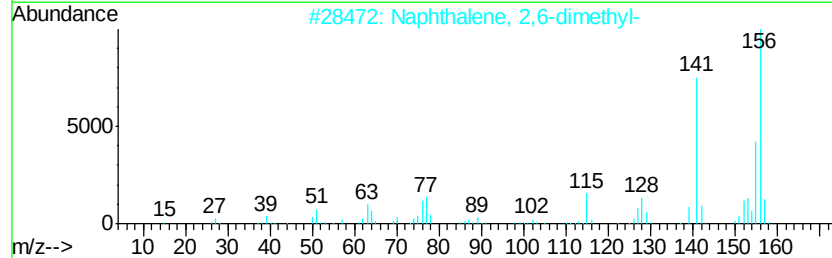
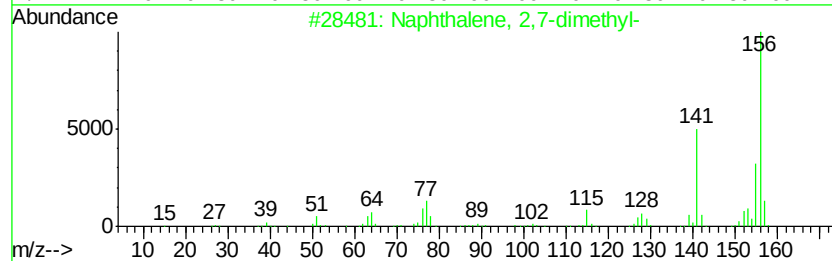
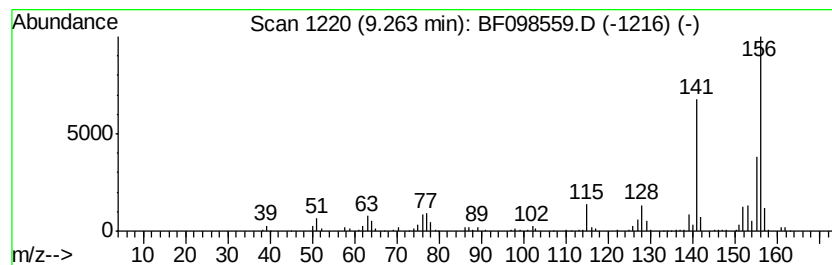
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Naphthalene, 2,7-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.26	4.79 ng	325960	Acenaphthene-d10	9.68
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Naphthalene, 2,7-dimethyl-	156 C12H12	000582-16-1 97
2		Naphthalene, 2,6-dimethyl-	156 C12H12	000581-42-0 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, 1,7-dimethyl-	156 C12H12	000575-37-1 96



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
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Acq On : 15 Sep 2017 10:27
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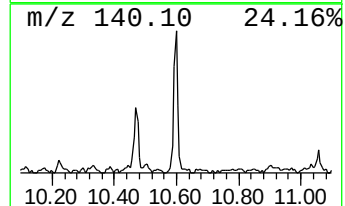
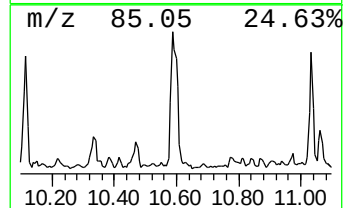
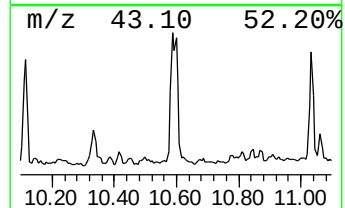
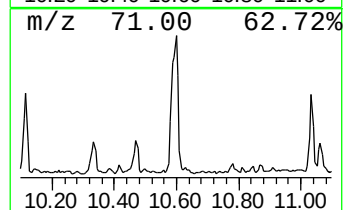
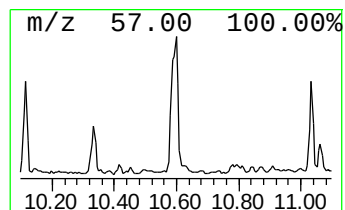
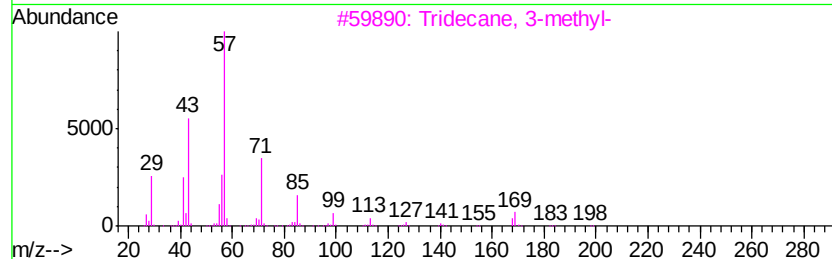
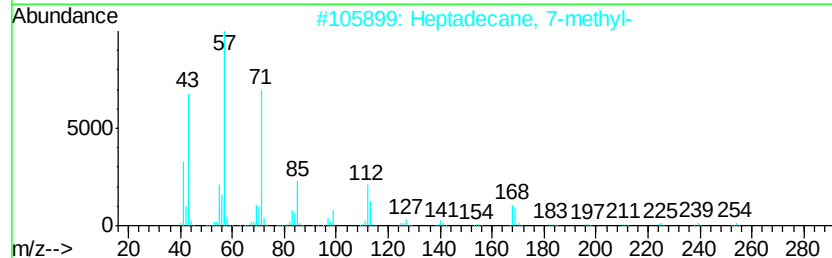
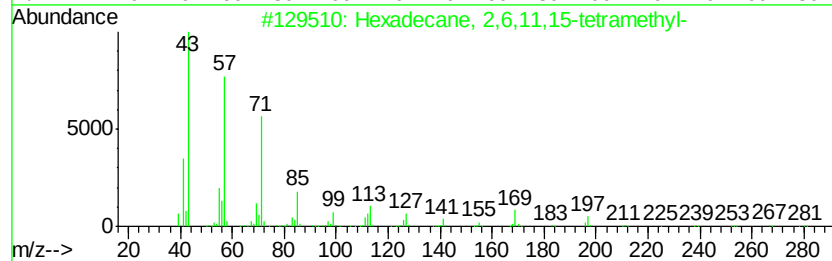
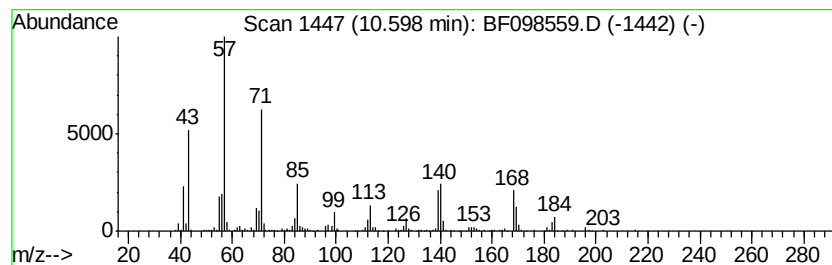
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 unknown10.60 Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.60	10.65 ng	610471	Phenanthrene-d10	11.16

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Hexadecane, 2,6,11,15-tetramethyl-	282	C20H42	000504-44-9	49
2		Heptadecane, 7-methyl-	254	C18H38	020959-33-5	49
3		Tridecane, 3-methyl-	198	C14H30	006418-41-3	47
4		Tridecane	184	C13H28	000629-50-5	45
5		Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	43



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
Data File : BF098559.D
Acq On : 15 Sep 2017 10:27
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Sample : I5159-06
Misc :
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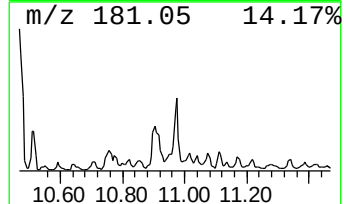
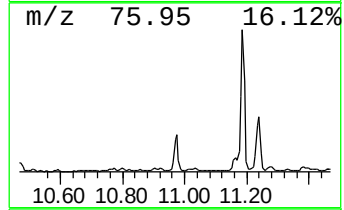
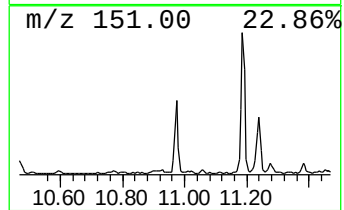
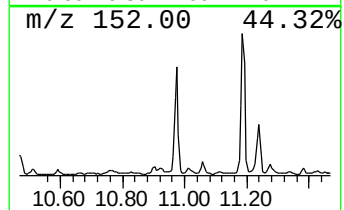
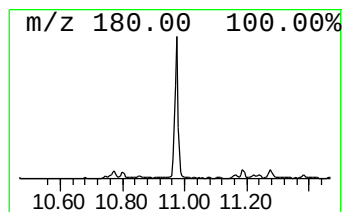
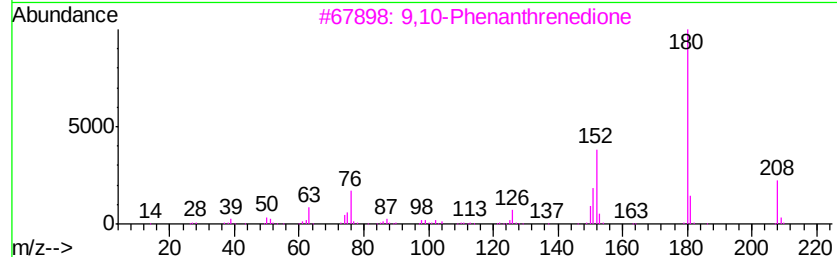
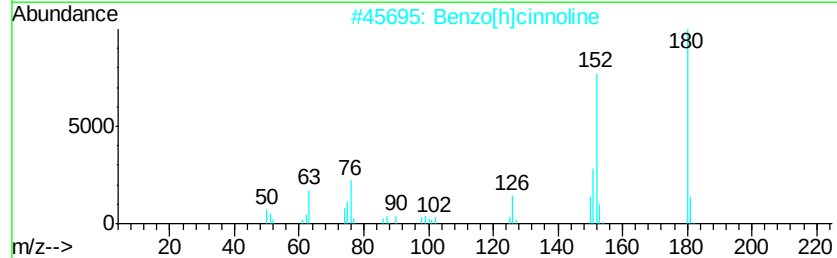
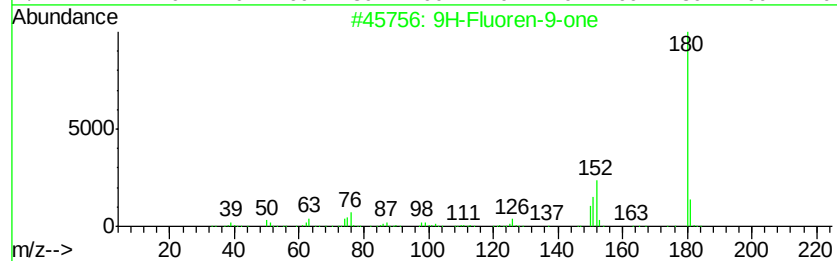
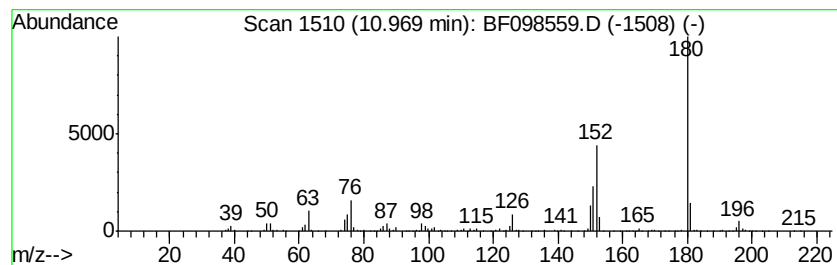
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 9H-Fluoren-9-one Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.97	7.94 ng	454997	Phenanthrene-d10	11.16

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	96
2		Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
3		9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	86
4		1H-Phenalen-1-one	180	C13H8O	000548-39-0	78
5		2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	53



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
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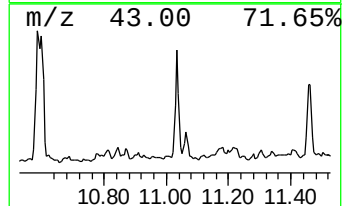
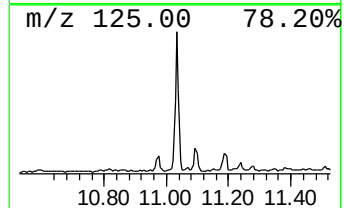
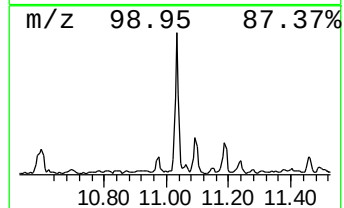
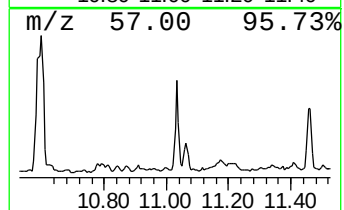
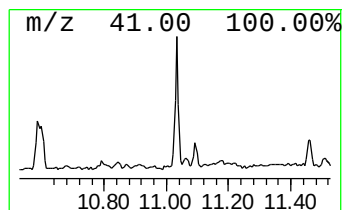
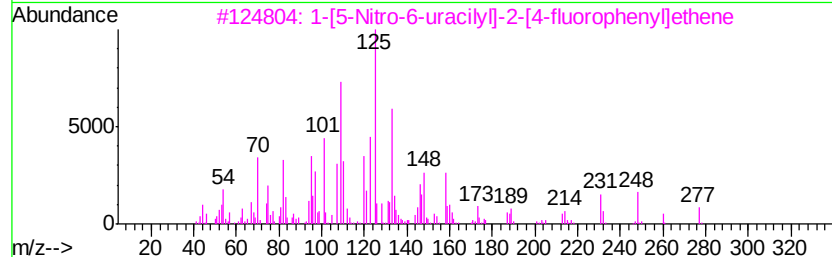
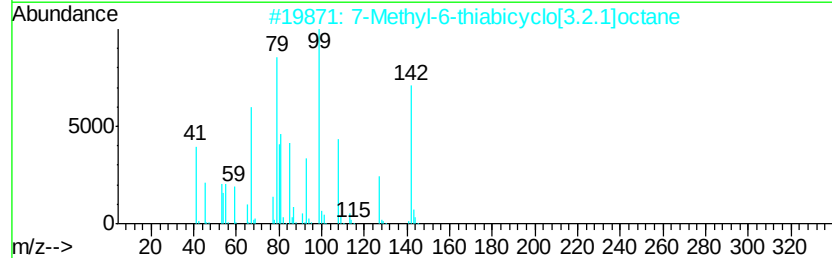
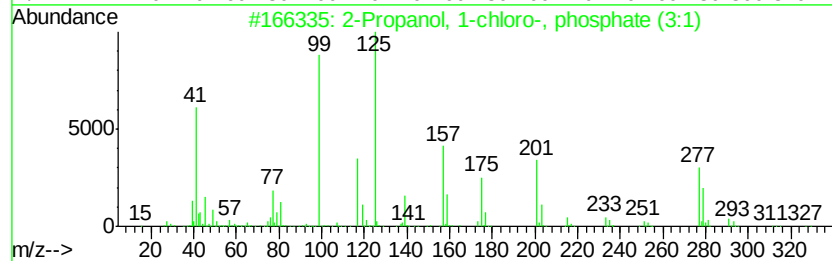
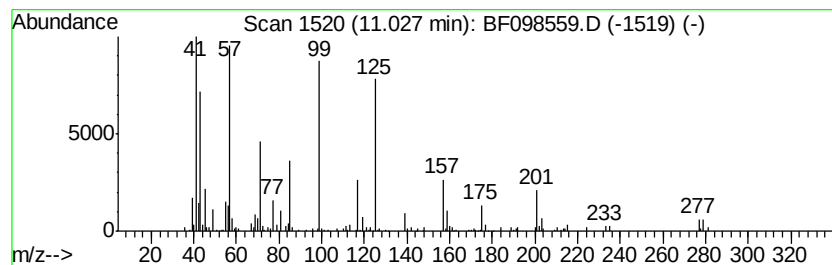
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 2-Propanol, 1-chloro-, phos... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.		
11.03	7.02 ng	402530	Phenanthrene-d10	11.16		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Propanol, 1-chloro-, phosphate...	326	C9H18Cl3O4P	013674-84-5	70	
2	7-Methyl-6-thiabicyclo[3.2.1]octane	142	C8H14S	1000306-33-2	25	
3	1-[5-Nitro-6-uracilyl]-2-[4-fluo...	277	C12H8FN3O4	343354-75-6	25	
4	Hexanoic acid, 3,5-difluoropheny...	228	C12H14F2O2	1000293-61-4	22	
5	4H-Imidazol-4-one, 2-amino-1,5-d...	99	C3H5N3O	000503-86-6	14	



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
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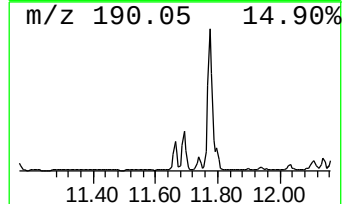
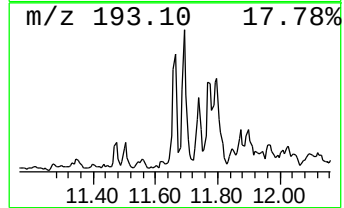
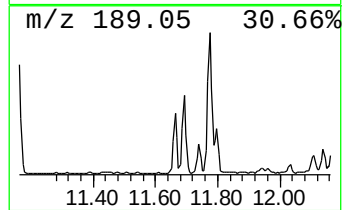
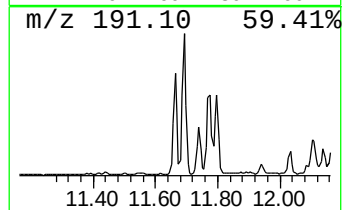
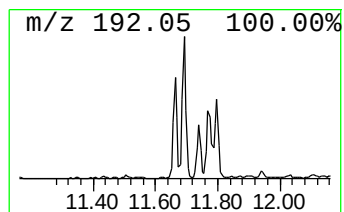
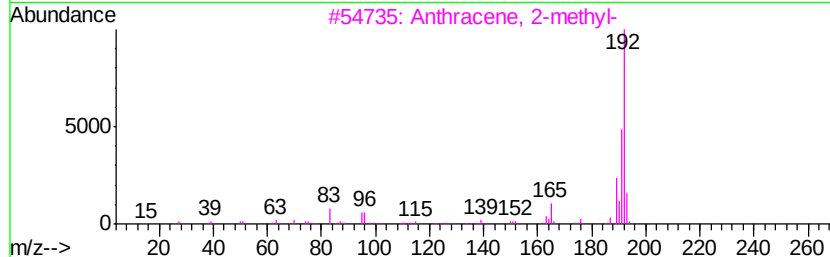
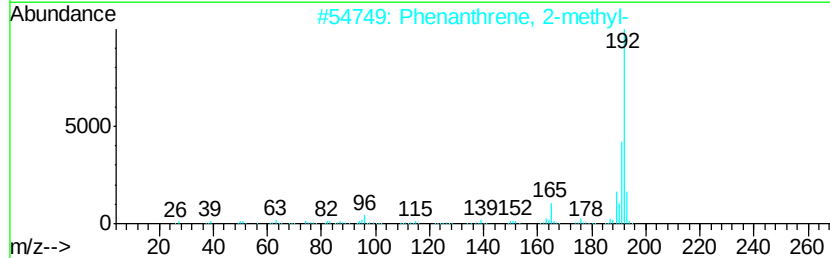
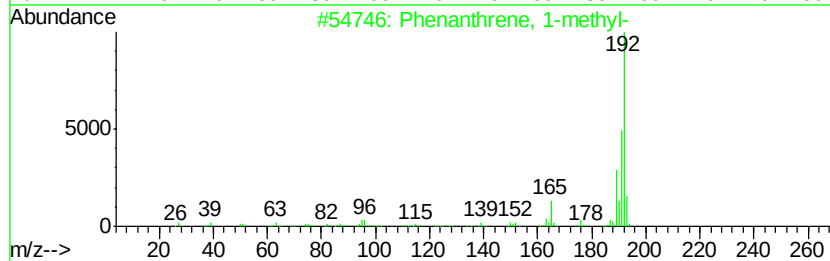
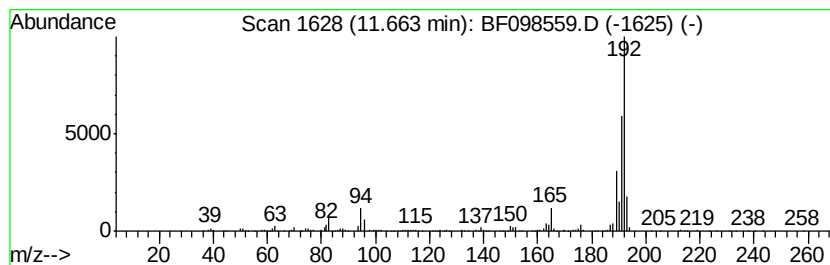
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.66	5.48 ng	313968	Phenanthrene-d10	11.16	
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	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
5	1H-Cyclopropa[l]phenanthrene, 1a, ...	192	C15H12	000949-41-7	93



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
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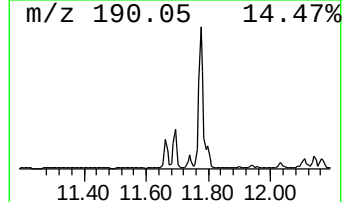
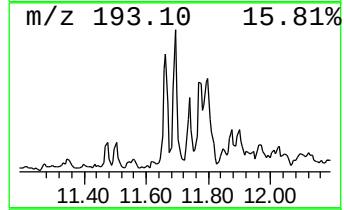
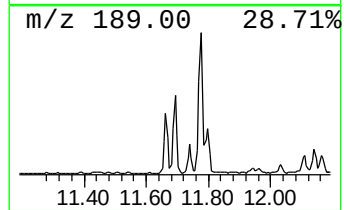
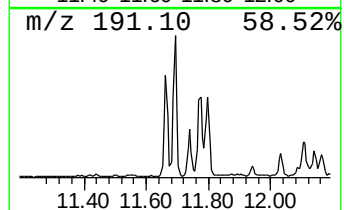
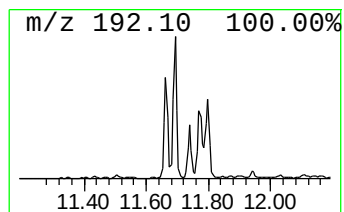
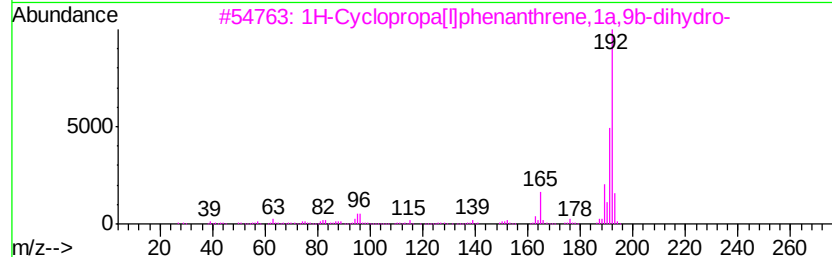
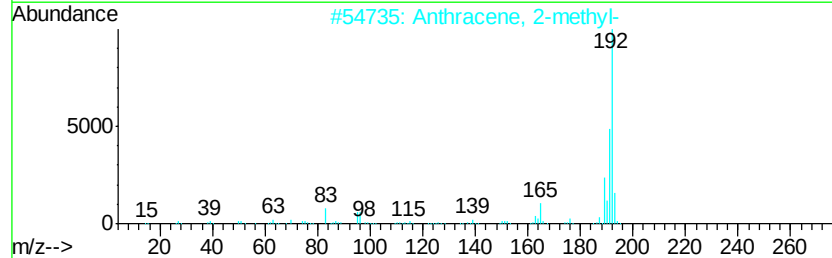
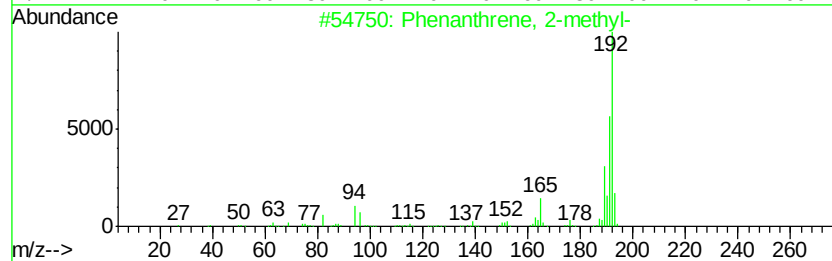
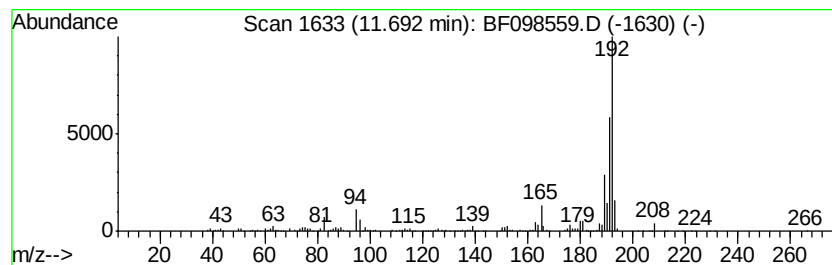
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.69	9.25 ng	530313	Phenanthrene-d10	11.16

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2			Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3			1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4			Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5			5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	93



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
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Misc :
ALS Vial : 3 Sample Multiplier: 1

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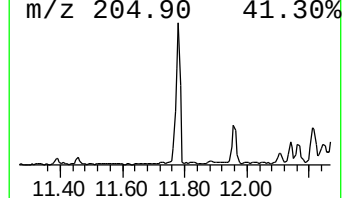
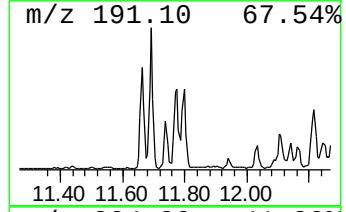
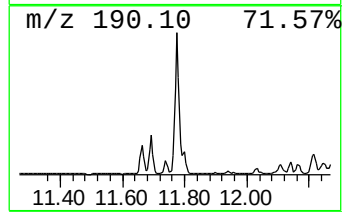
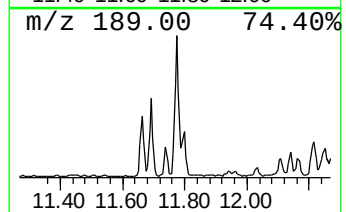
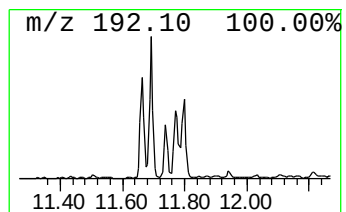
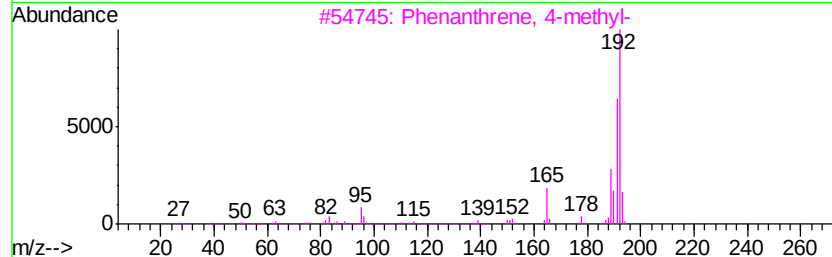
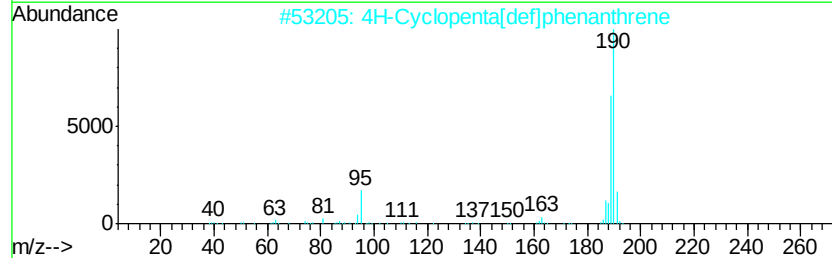
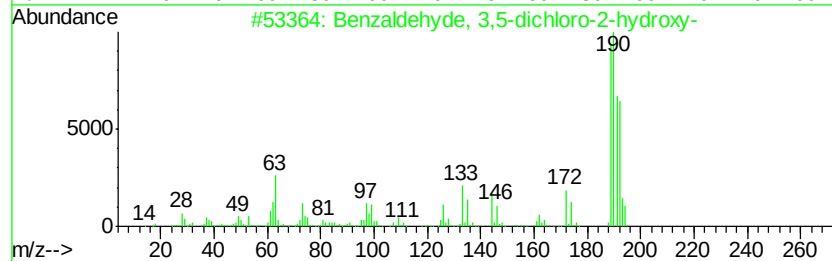
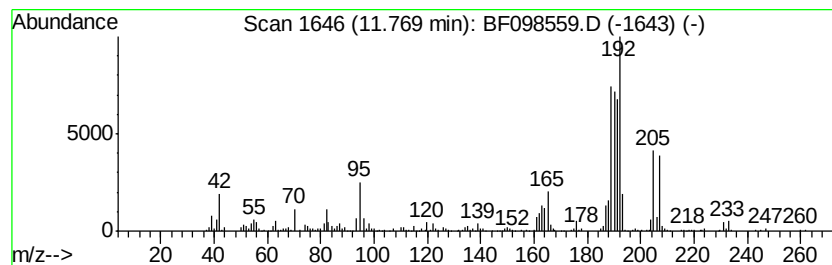
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Benzaldehyde, 3,5-dichloro-... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.77	17.63 ng	1010040	Phenanthrene-d10	11.16

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	52
2		4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	38
3		Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	35
4		1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	35
5		3,5-Dichlorobenzoic acid	190	C7H4Cl2O2	000051-36-5	25



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
Data File : BF098559.D
Acq On : 15 Sep 2017 10:27
Operator : SJ/JU
Sample : I5159-06
Misc :
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ClientSampleId :
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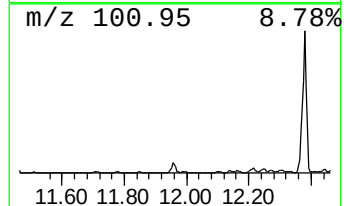
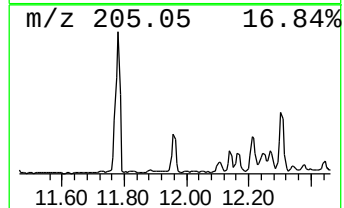
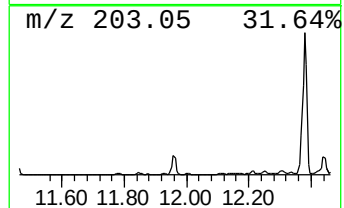
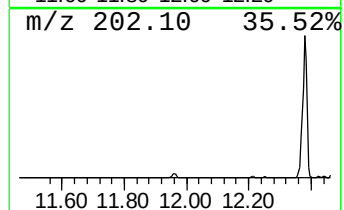
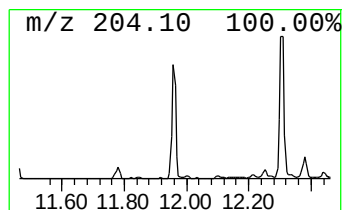
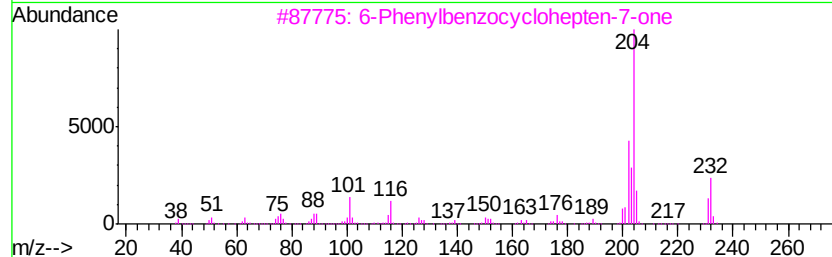
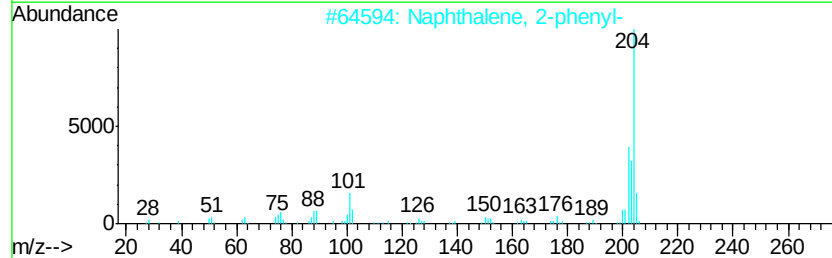
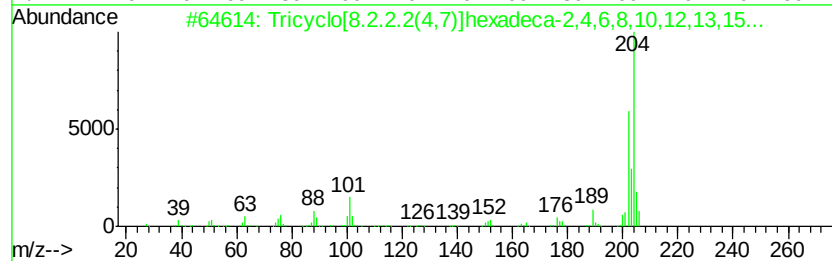
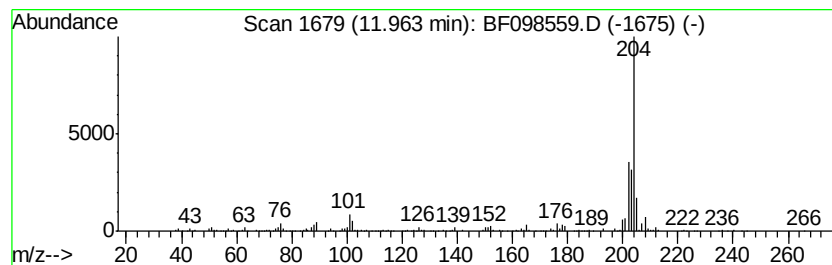
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 12 Tricyclo[8.2.2.2(4,7)]hexad... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.96	7.70 ng	441339	Phenanthrene-d10	11.16

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	90
2		Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	90
3		6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	90
4		5,16[1',2']:[8,13[1'',2'']]-Dibenz...	408	C32H24	005672-97-9	87
5		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	70



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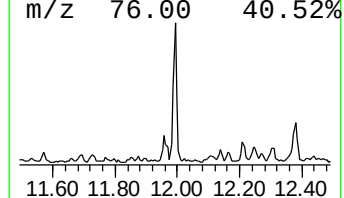
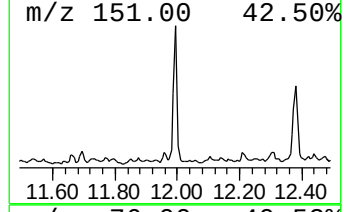
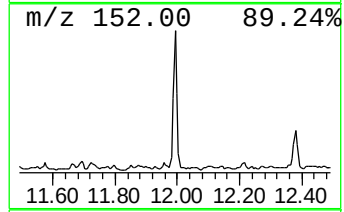
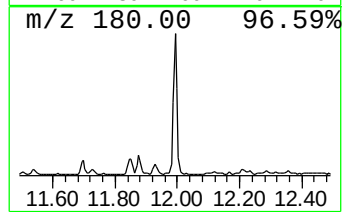
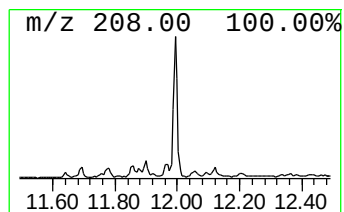
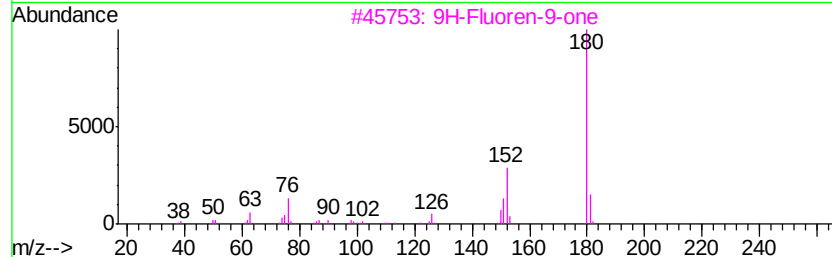
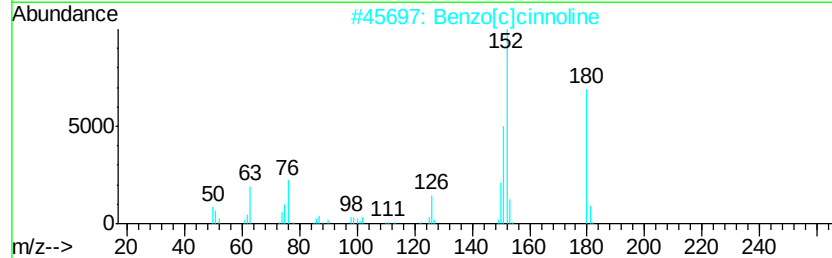
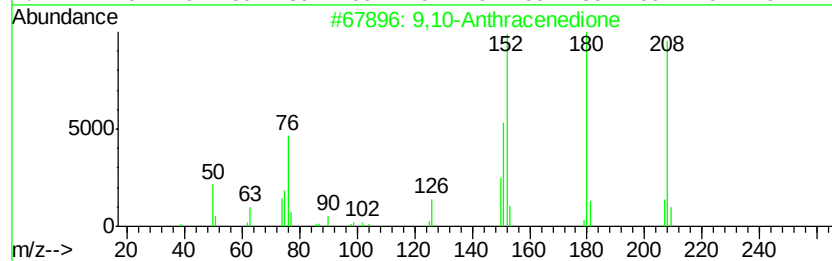
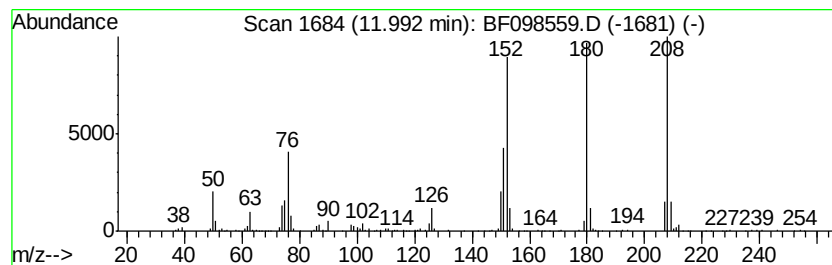
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 13 9,10-Anthracenedione Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	8.81 ng	504985	Phenanthrene-d10	11.16

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			9,10-Anthracenedione	208	C14H8O2	000084-65-1	99
2			Benzo[c]cinnoline	180	C12H8N2	000230-17-1	92
3			9H-Fluoren-9-one	180	C13H8O	000486-25-9	86
4			1,4-Anthracenedione	208	C14H8O2	000635-12-1	49
5			Benzo[h]cinnoline	180	C12H8N2	000230-31-9	46



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
Data File : BF098559.D
Acq On : 15 Sep 2017 10:27
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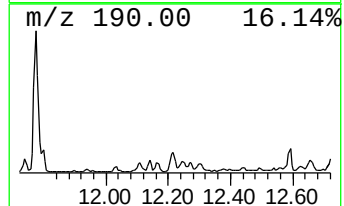
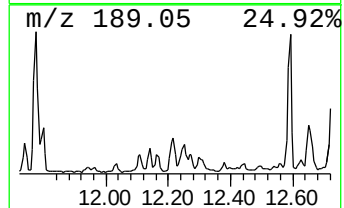
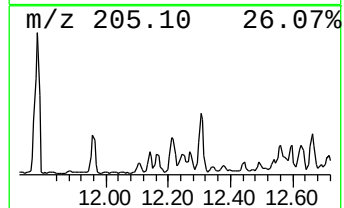
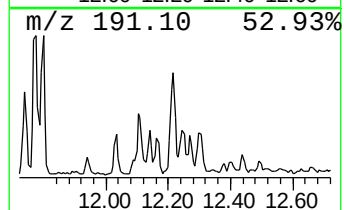
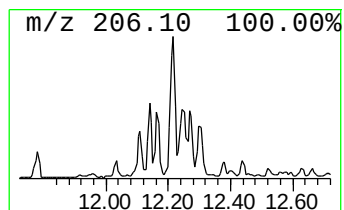
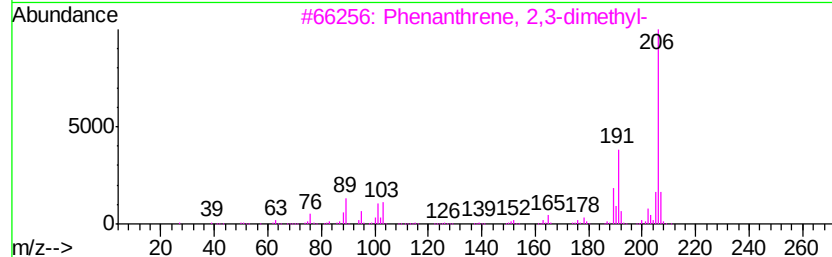
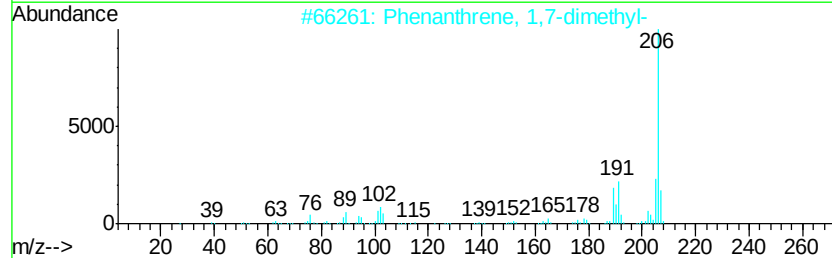
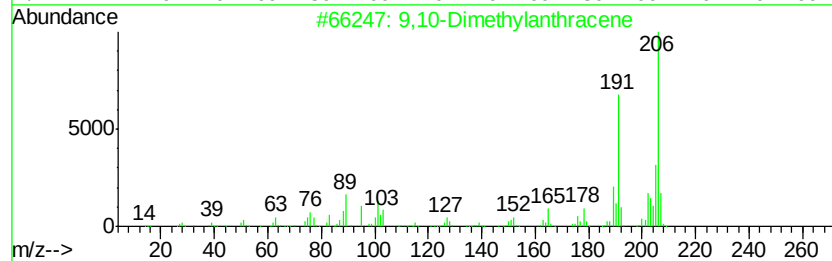
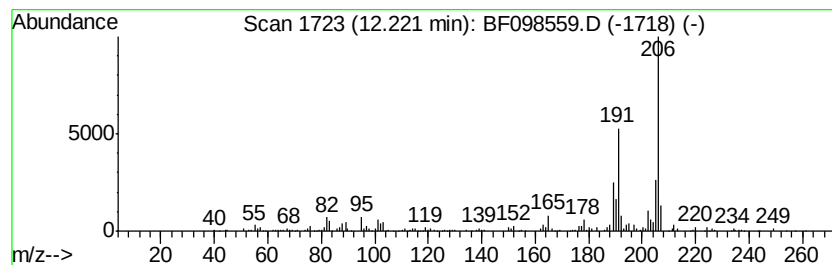
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 14 9,10-Dimethylantracene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.22	6.04 ng	346178	Phenanthrene-d10	11.16

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			9,10-Dimethylantracene	206	C16H14	000781-43-1	91
2			Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	89
3			Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87
4			Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	87
5			Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	86



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
Data File : BF098559.D
Acq On : 15 Sep 2017 10:27
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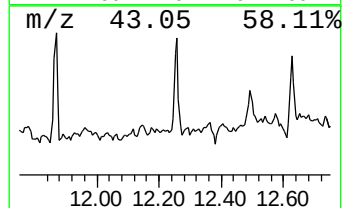
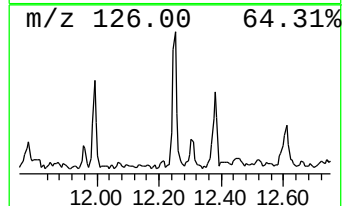
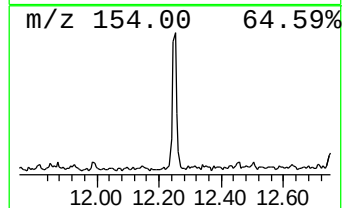
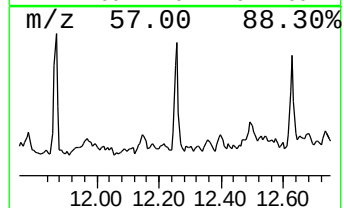
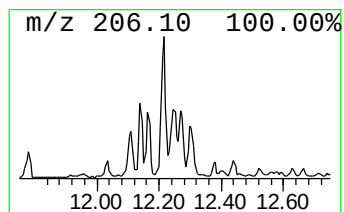
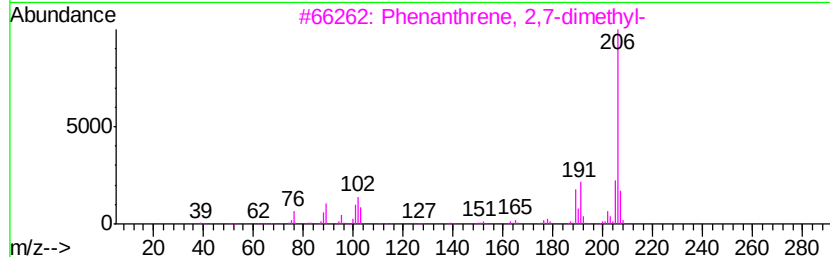
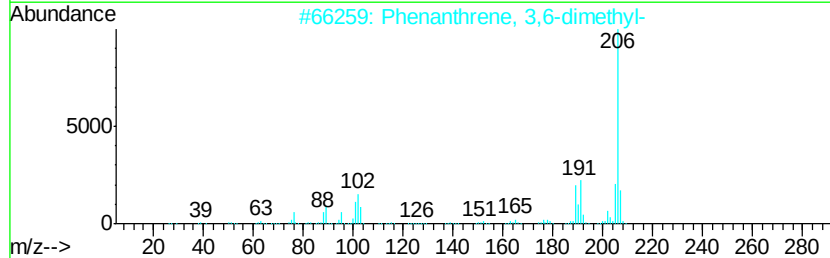
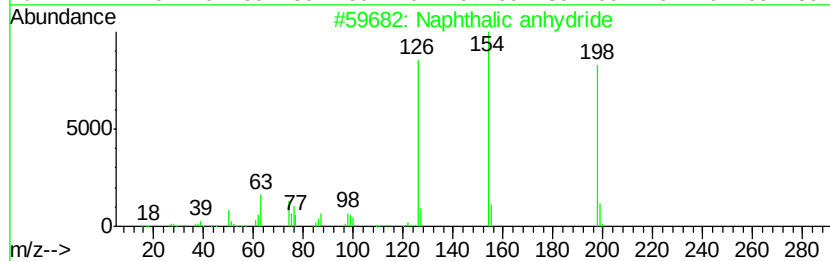
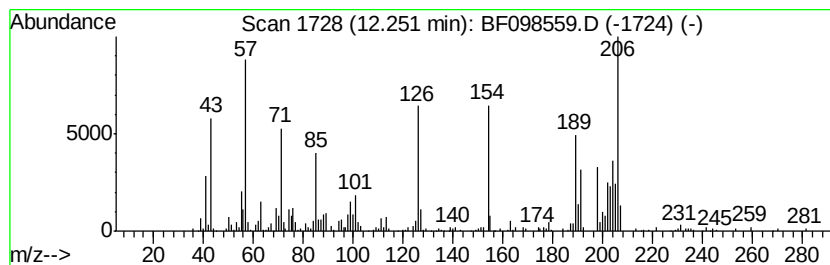
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 15 Naphthalic anhydride Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.25	5.14 ng	294335	Phenanthrene-d10	11.16

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalic anhydride	198	C12H6O3	000081-84-5	91
2			Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	30
3			Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	25
4			di-p-Tolylacetylene	206	C16H14	002789-88-0	22
5			3-Methoxy-2,4,5-trifluorobenzoic...	374	C20H29F3O3	1000338-76-9	22



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
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Acq On : 15 Sep 2017 10:27
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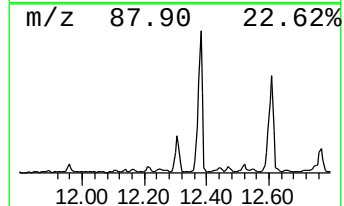
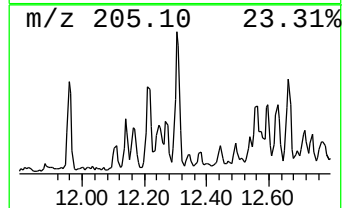
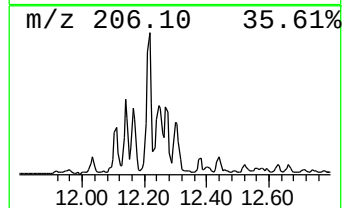
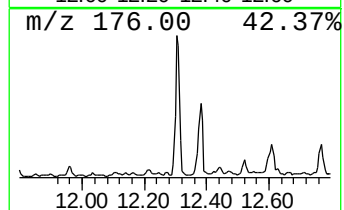
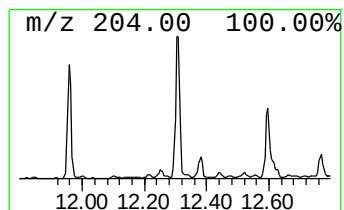
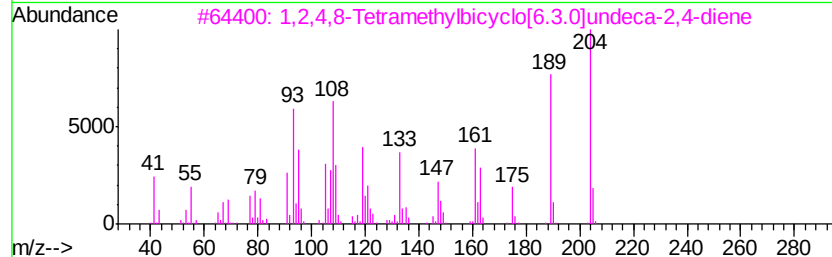
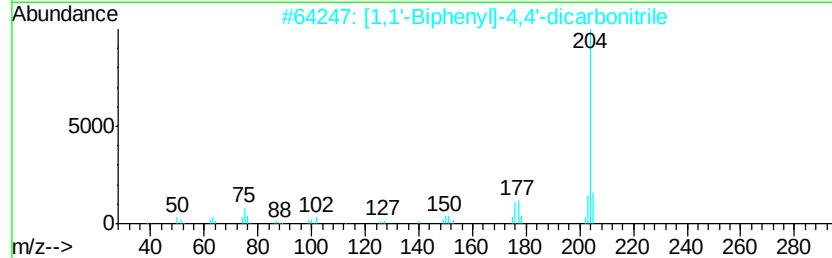
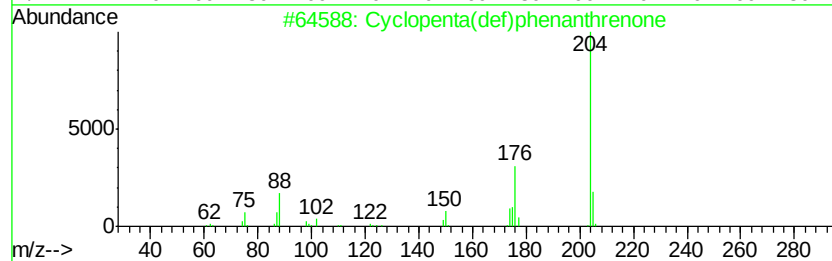
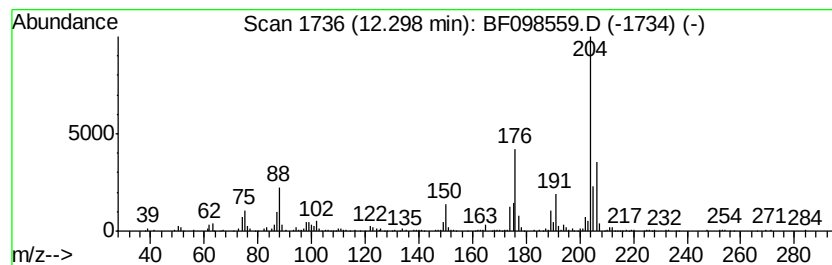
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 16 Cyclopenta(def)phenanthrenone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.30	10.72 ng	614195	Phenanthrene-d10	11.16

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	53
3		1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene	204	C15H24	137235-51-9	49
4		Tricyclo[8.2.2.2(4,7)]hexadeca-2,4,6,8-tetraene	204	C16H12	006572-60-7	47
5		3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	45



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Acq On : 15 Sep 2017 10:27
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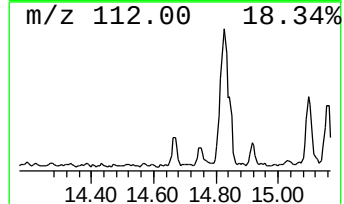
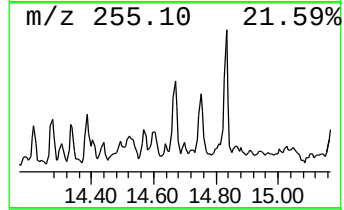
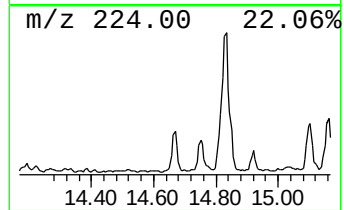
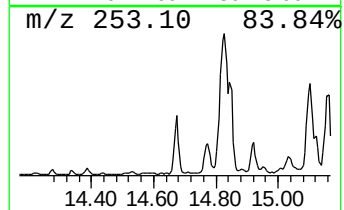
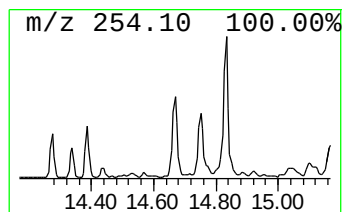
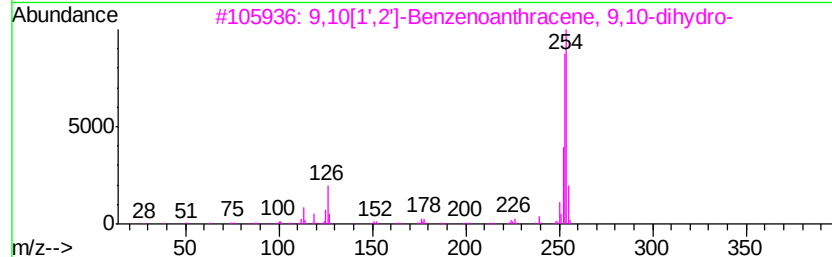
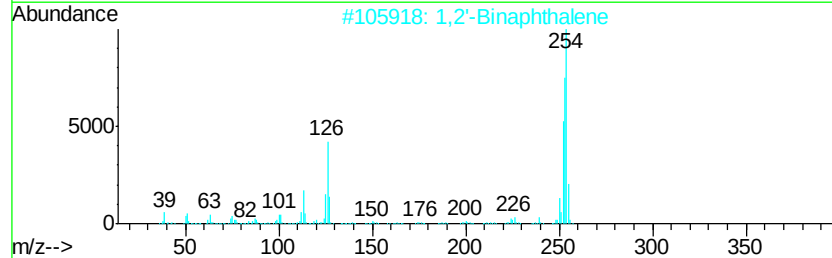
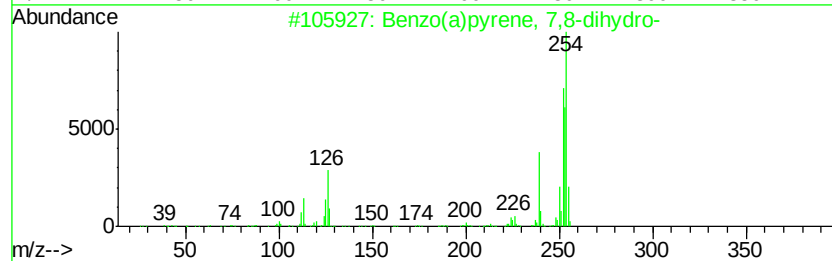
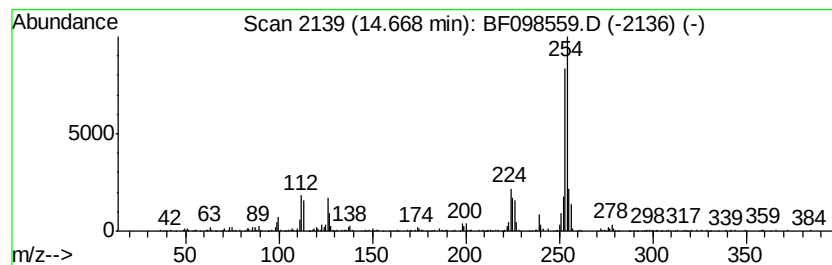
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TIC Integration Parameters: LSCINT.P

Peak Number 17 Benzo(a)pyrene, 7,8-dihydro- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.67	9.82 ng	407576	Perylene-d12	15.22

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo(a)pyrene, 7,8-dihydro-	254	C20H14	017573-23-8	72
2		1,2'-Binaphthalene	254	C20H14	004325-74-0	72
3		9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	72
4		Benzo[a]pyrene, 4,5-dihydro-	254	C20H14	057652-66-1	72
5		Anthracene, 9-phenyl-	254	C20H14	000602-55-1	64



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
Data File : BF098559.D
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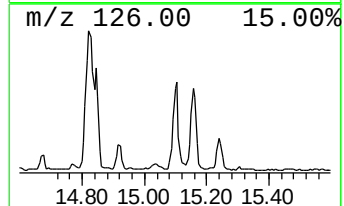
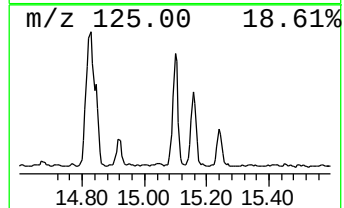
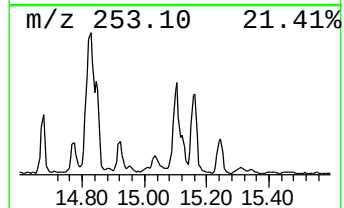
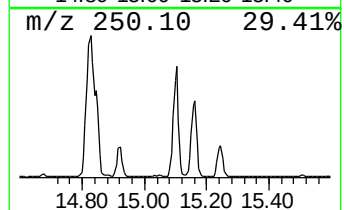
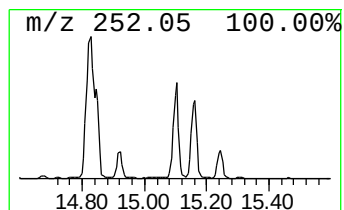
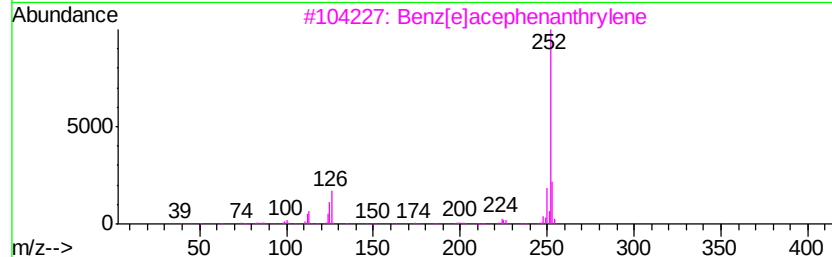
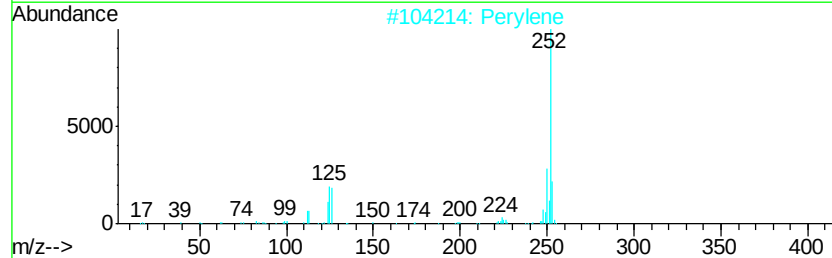
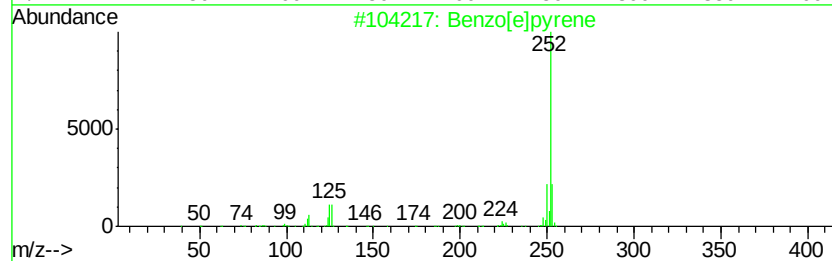
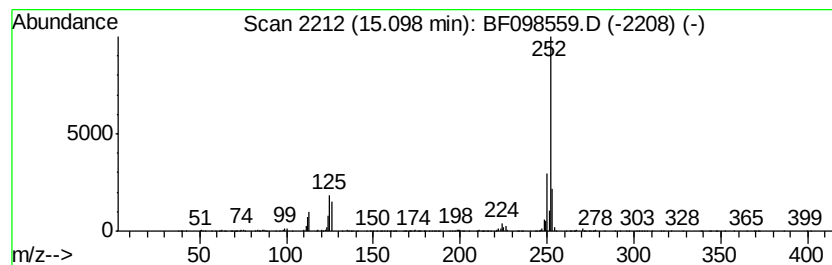
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.10	40.99 ng	1701450	Perylene-d12	15.22

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2		Perylene	252	C20H12	000198-55-0	99
3		Benz[e]acephenanthrylene	252	C20H12	000205-99-2	98
4		Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
5		Benzo[a]pyrene	252	C20H12	000050-32-8	95



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
Data File : BF098559.D
Acq On : 15 Sep 2017 10:27
Operator : SJ/JU
Sample : I5159-06
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
G-9-1

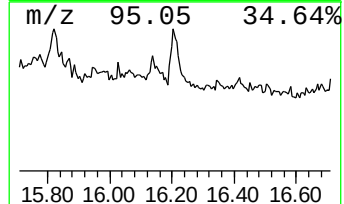
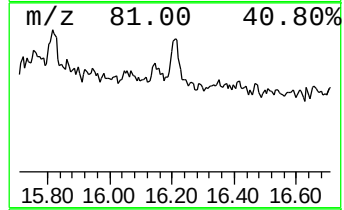
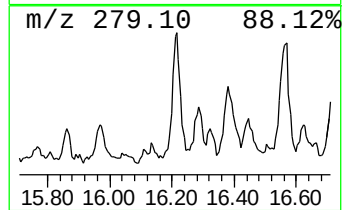
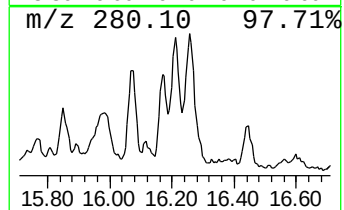
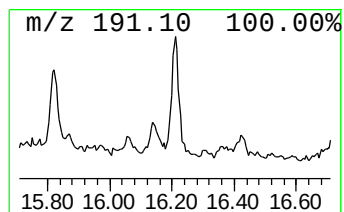
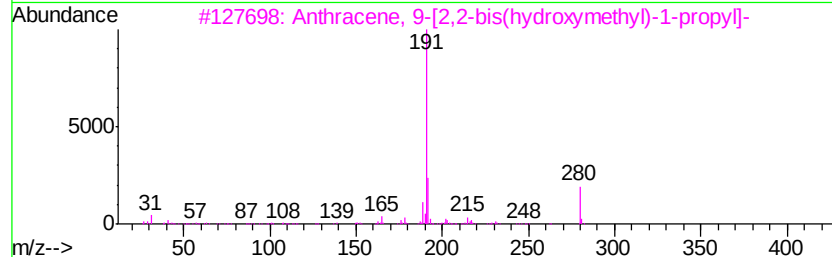
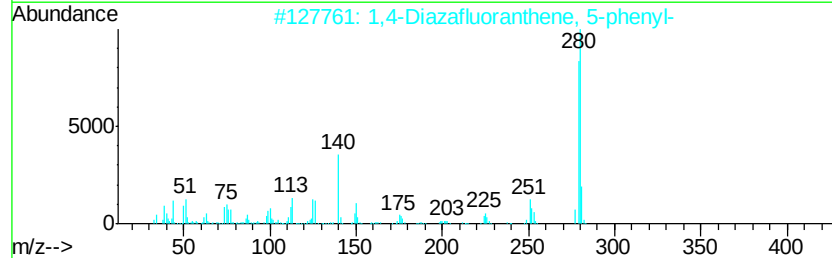
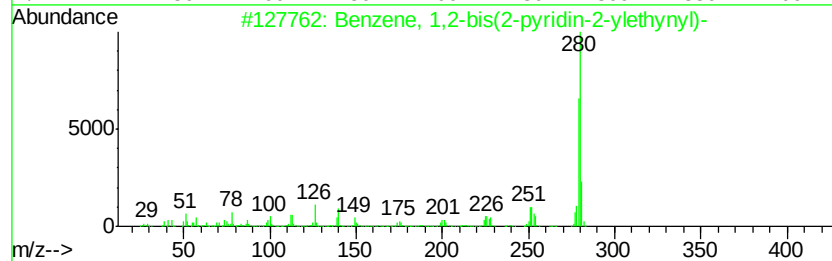
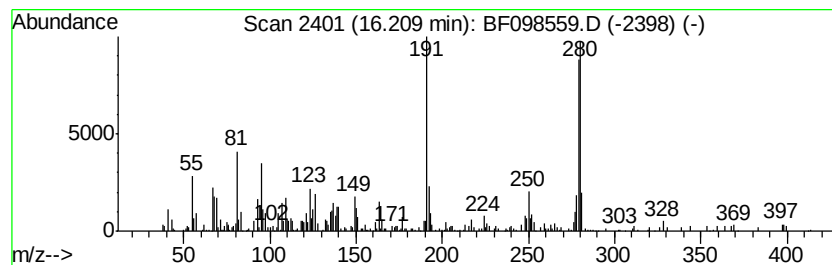
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Benzene, 1,2-bis(2-pyridin-... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.21	5.85 ng	242626	Perylene-d12	15.22

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1,2-bis(2-pyridin-2-yle...	280	C20H12N2	350587-04-1	50
2			1,4-Diazafluoranthene, 5-phenyl-	280	C20H12N2	1000303-05-1	49
3			Anthracene, 9-[2,2-bis(hydroxyme...	280	C19H20O2	144000-85-1	49
4			Cyclopentylidene-(4-p-tolyl-thia...	280	C17H16N2S	1000300-06-7	43
5			1-(Phenylethynyl)-4-(trans-styry...	280	C22H16	173035-17-1	38



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF091517\
 Data File : BF098559.D
 Acq On : 15 Sep 2017 10:27
 Operator : SJ/JU
 Sample : I5159-06
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 G-9-1

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF091117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-hy...	4.82	9.1 ng		410416	1	6.65	897753	20.0
unknown6.42	6.42	81.0 ng		3635040	1	6.65	897753	20.0
Naphthalene, 1-me...	8.74	5.9 ng		400827	2	7.93	1356060	20.0
Naphthalene, 2,7-...	9.26	4.8 ng		325960	3	9.68	1359910	20.0
unknown10.60	10.60	10.7 ng		610471	4	11.16	1146020	20.0
9H-Fluoren-9-one	10.97	7.9 ng		454997	4	11.16	1146020	20.0
2-Propanol, 1-chl...	11.03	7.0 ng		402530	4	11.16	1146020	20.0
Phenanthrene, 1-m...	11.66	5.5 ng		313968	4	11.16	1146020	20.0
Phenanthrene, 2-m...	11.69	9.3 ng		530313	4	11.16	1146020	20.0
Benzaldehyde, 3,5...	11.77	17.6 ng		1010040	4	11.16	1146020	20.0
Tricyclo[8.2.2.2(...	11.96	7.7 ng		441339	4	11.16	1146020	20.0
9,10-Anthracenedione	11.99	8.8 ng		504985	4	11.16	1146020	20.0
9,10-Dimethylanth...	12.22	6.0 ng		346178	4	11.16	1146020	20.0
Naphthalic anhydride	12.25	5.1 ng		294335	4	11.16	1146020	20.0
Cyclopenta(def)ph...	12.30	10.7 ng		614195	4	11.16	1146020	20.0
Benzo(a)pyrene, 7...	14.67	9.8 ng		407576	6	15.22	830157	20.0
Benzo[e]pyrene	15.10	41.0 ng		1701450	6	15.22	830157	20.0
Benzene, 1,2-bis(...	16.21	5.8 ng		242626	6	15.22	830157	20.0