

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA_F\DATA\BF101217\
 Data File : BF099410.D
 Acq On : 12 Oct 2017 22:24
 Operator : SJ/JU
 Sample : I5729-10
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 5S-(2-3)

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-BF092317.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	2.140	5	9	24	rVB	49203	75442	2.78%	0.195%
2	5.081	503	509	523	rBV	328907	463087	17.04%	1.196%
3	5.481	572	577	580	rBV	2463476	2382741	87.70%	6.154%
4	6.492	743	749	761	rVB	2208886	2502139	92.09%	6.463%
5	6.628	767	772	775	rBV	2482695	2531492	93.17%	6.539%
6	6.851	806	810	816	rVB	851097	693343	25.52%	1.791%
7	7.010	832	837	840	rBV	2282960	2042369	75.17%	5.275%
8	7.422	902	907	909	rBV	1475477	1563837	57.56%	4.039%
9	8.104	1020	1023	1025	rBV	44404	41248	1.52%	0.107%
10	8.133	1025	1028	1030	rVV	1075713	880382	32.40%	2.274%
11	8.151	1030	1031	1034	rVB	127039	100634	3.70%	0.260%
12	8.545	1095	1098	1100	rBV	43948	39245	1.44%	0.101%
13	8.716	1124	1127	1130	rVB	54005	43013	1.58%	0.111%
14	8.845	1146	1149	1152	rBV	112457	88001	3.24%	0.227%
15	8.945	1162	1166	1169	rBV	103920	84853	3.12%	0.219%
16	9.210	1205	1211	1214	rBV	2972678	2717031	100.00%	7.018%
17	9.280	1219	1223	1225	rVV	70954	64253	2.36%	0.166%
18	9.304	1225	1227	1232	rVB	35024	32847	1.21%	0.085%
19	9.475	1251	1256	1260	rVB	38326	50264	1.85%	0.130%
20	9.545	1264	1268	1270	rBV	73617	76476	2.81%	0.198%
21	9.598	1274	1277	1280	rVV	371515	285435	10.51%	0.737%
22	9.663	1284	1288	1289	rBV2	46080	40728	1.50%	0.105%
23	9.745	1300	1302	1305	rVB2	39568	34309	1.26%	0.089%
24	9.804	1308	1312	1317	rVV	80635	77681	2.86%	0.201%
25	9.886	1317	1326	1329	rVV2	961562	855875	31.50%	2.211%
26	9.922	1329	1332	1335	rVB	213474	194657	7.16%	0.503%
27	10.045	1347	1353	1355	rBV4	25828	37154	1.37%	0.096%
28	10.092	1357	1361	1364	rVV	157058	151761	5.59%	0.392%
29	10.127	1364	1367	1371	rVB2	51615	48320	1.78%	0.125%
30	10.198	1376	1379	1382	rBV	33755	35450	1.30%	0.092%
31	10.304	1390	1397	1400	rBV2	113724	143294	5.27%	0.370%
32	10.433	1415	1419	1425	rVB	213268	189392	6.97%	0.489%
33	10.521	1432	1434	1437	rVB	52540	42992	1.58%	0.111%
34	10.592	1443	1446	1452	rVB2	65636	77456	2.85%	0.200%

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35	10.680	1457	1461	1464	rBV	1133083	1145389	42.16%	2.958%
36	10.780	1475	1478	1486	rVB4	150479	234650	8.64%	0.606%
37	10.980	1506	1512	1515	rBV4	42263	68869	2.53%	0.178%
38	11.104	1528	1533	1536	rBV4	37268	61854	2.28%	0.160%
39	11.180	1543	1546	1550	rBV	125336	111474	4.10%	0.288%
40	11.227	1550	1554	1556	rVV3	126375	127755	4.70%	0.330%
41	11.269	1556	1561	1566	rVB	109939	140639	5.18%	0.363%
42	11.374	1575	1579	1581	rBV	756943	707453	26.04%	1.827%
43	11.398	1581	1583	1587	rVV	1575144	1429512	52.61%	3.692%
44	11.451	1587	1592	1595	rVV	429218	378681	13.94%	0.978%
45	11.486	1595	1598	1603	rVB	37210	51723	1.90%	0.134%
46	11.604	1614	1618	1622	rBV2	201739	213618	7.86%	0.552%
47	11.651	1623	1626	1633	rVV2	89660	106012	3.90%	0.274%
48	11.704	1633	1635	1640	rVB3	43944	50709	1.87%	0.131%
49	11.874	1661	1664	1666	rBV	182635	159988	5.89%	0.413%
50	11.904	1666	1669	1672	rVB	266409	232333	8.55%	0.600%
51	11.951	1674	1677	1679	rBV	76411	57464	2.11%	0.148%
52	11.986	1679	1683	1685	rVV	279153	279214	10.28%	0.721%
53	12.010	1685	1687	1690	rVB	133815	105120	3.87%	0.272%
54	12.057	1692	1695	1697	rBV	93468	75945	2.80%	0.196%
55	12.168	1711	1714	1717	rBV	143047	123235	4.54%	0.318%
56	12.198	1717	1719	1724	rVB	148190	133642	4.92%	0.345%
57	12.315	1733	1739	1742	rBV2	58510	83962	3.09%	0.217%
58	12.351	1742	1745	1747	rVV	54517	56038	2.06%	0.145%
59	12.374	1747	1749	1752	rVB	44555	37897	1.39%	0.098%
60	12.421	1754	1757	1759	rVV	111415	109687	4.04%	0.283%
61	12.445	1759	1761	1766	rVV4	91494	142886	5.26%	0.369%
62	12.515	1770	1773	1777	rVV2	109504	110939	4.08%	0.287%
63	12.592	1782	1786	1789	rBV	1979840	1720426	63.32%	4.444%
64	12.651	1794	1796	1799	rVB	52067	43103	1.59%	0.111%
65	12.739	1806	1811	1814	rBV3	57186	70307	2.59%	0.182%
66	12.821	1818	1825	1828	rBV	1690271	1815678	66.83%	4.690%
67	12.868	1830	1833	1837	rVB2	91290	105073	3.87%	0.271%
68	12.957	1841	1848	1851	rBV	1978832	1942571	71.50%	5.017%
69	12.980	1851	1852	1855	rVB	112047	58358	2.15%	0.151%
70	13.027	1857	1860	1865	rBV2	94397	168803	6.21%	0.436%
71	13.068	1865	1867	1869	rBV	39326	31206	1.15%	0.081%

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72	13.127	1872	1877	1878	rBV3	95842	141464	5.21%	0.365%
73	13.145	1878	1880	1883	rVB	217878	165828	6.10%	0.428%
74	13.174	1883	1885	1888	rBV2	55329	45596	1.68%	0.118%
75	13.210	1888	1891	1894	rBV	137073	107947	3.97%	0.279%
76	13.251	1894	1898	1900	rBV2	146643	163768	6.03%	0.423%
77	13.304	1905	1907	1910	rVB2	40095	31149	1.15%	0.080%
78	13.339	1911	1913	1916	rBV	76932	67113	2.47%	0.173%
79	13.374	1916	1919	1922	rBV	96768	95680	3.52%	0.247%
80	13.457	1931	1933	1936	rVB2	36781	31925	1.17%	0.082%
81	13.515	1941	1943	1946	rVV3	41093	42966	1.58%	0.111%
82	13.657	1964	1967	1971	rVB	160031	141189	5.20%	0.365%
83	13.762	1982	1985	1988	rBV	179745	183575	6.76%	0.474%
84	13.792	1988	1990	1992	rVV	138124	111359	4.10%	0.288%
85	13.815	1992	1994	1996	rVV	119103	138530	5.10%	0.358%
86	13.862	2000	2002	2005	rVB	175565	151076	5.56%	0.390%
87	14.009	2023	2027	2031	rBV2	984417	1522549	56.04%	3.933%
88	14.045	2031	2033	2036	rVB	867426	647249	23.82%	1.672%
89	14.121	2044	2046	2048	rBV	130855	95665	3.52%	0.247%
90	14.162	2051	2053	2056	rVV4	52403	53858	1.98%	0.139%
91	14.398	2091	2093	2096	rVB	130711	118157	4.35%	0.305%
92	14.433	2097	2099	2101	rBV	70141	59818	2.20%	0.155%
93	15.062	2201	2206	2209	rBV	610869	942915	34.70%	2.435%
94	15.168	2221	2224	2228	rBV	95268	115999	4.27%	0.300%
95	15.362	2254	2257	2263	rVB	329481	423256	15.58%	1.093%
96	15.427	2264	2268	2273	rVV	486861	598432	22.03%	1.546%
97	15.492	2274	2279	2282	rVV	392771	511318	18.82%	1.321%
98	15.521	2282	2284	2292	rVB	155968	174627	6.43%	0.451%
99	16.974	2526	2531	2540	rVB	185300	379154	13.95%	0.979%
100	17.427	2602	2608	2614	rVB2	133875	274566	10.11%	0.709%

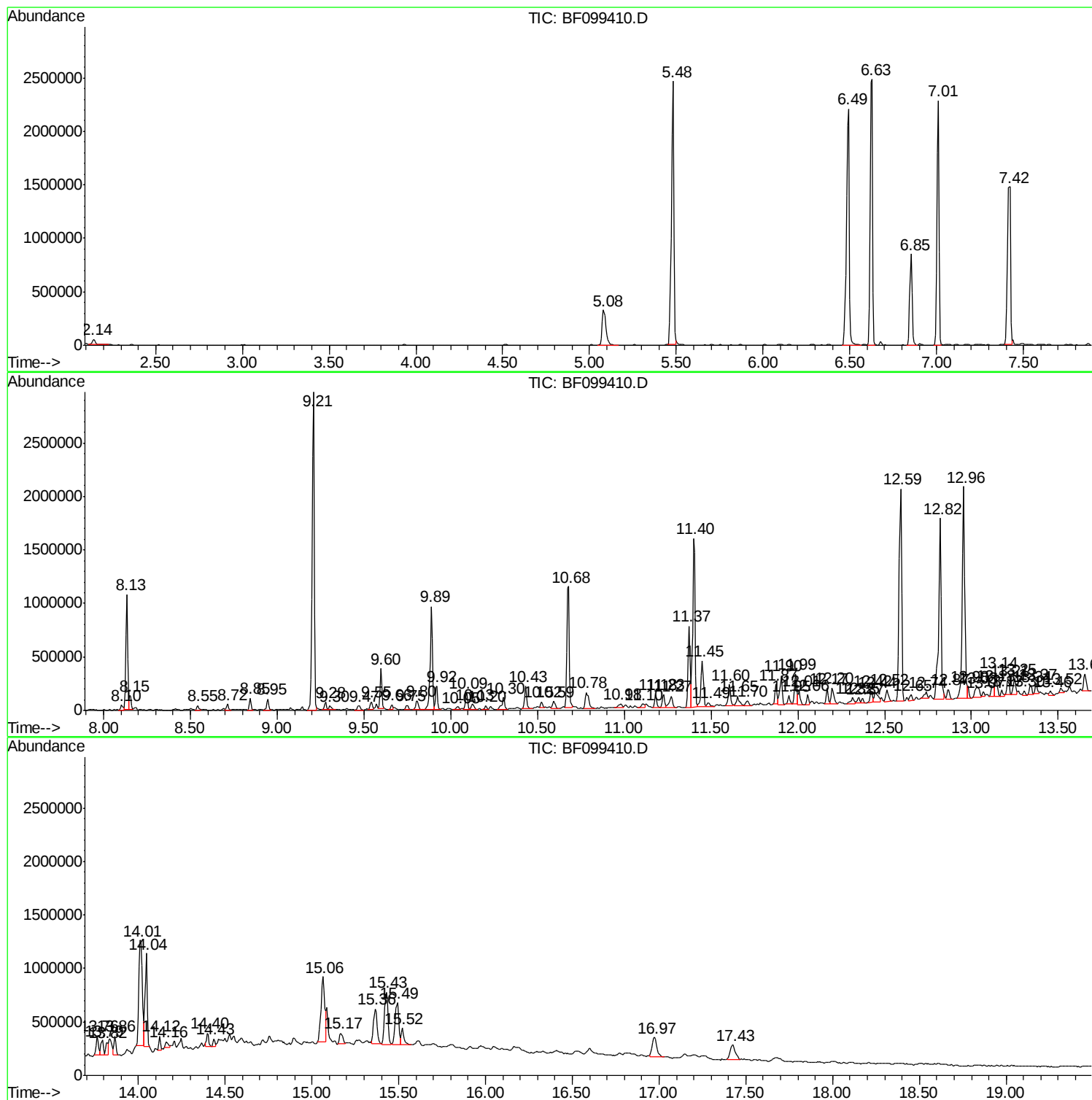
Sum of corrected areas: 38716142

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Instrument :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.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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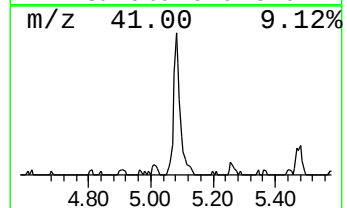
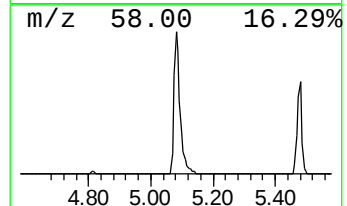
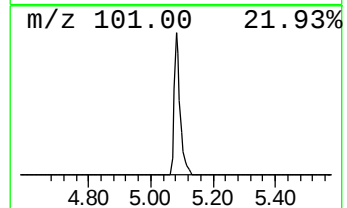
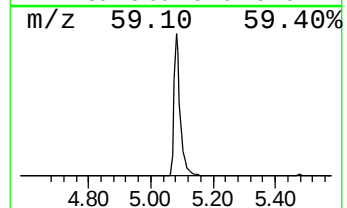
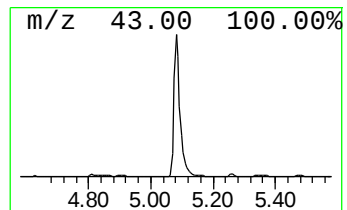
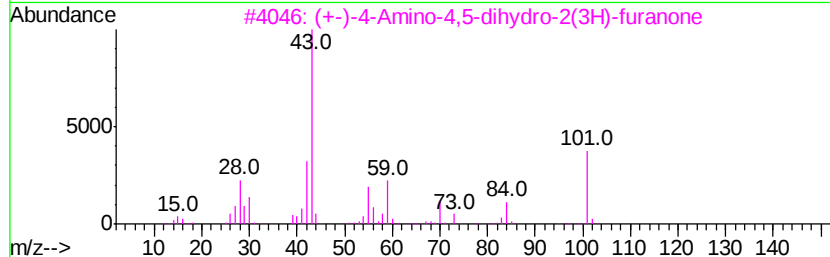
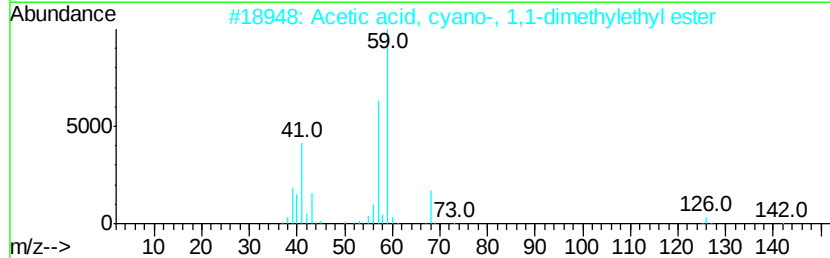
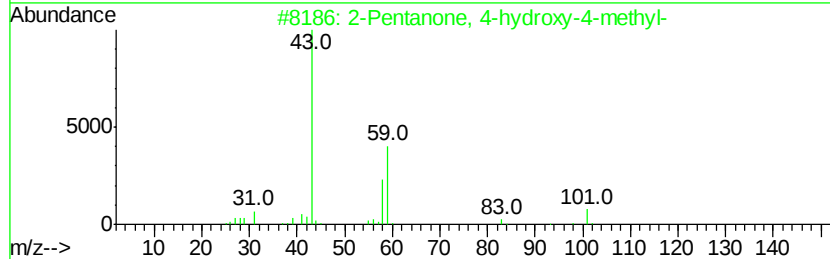
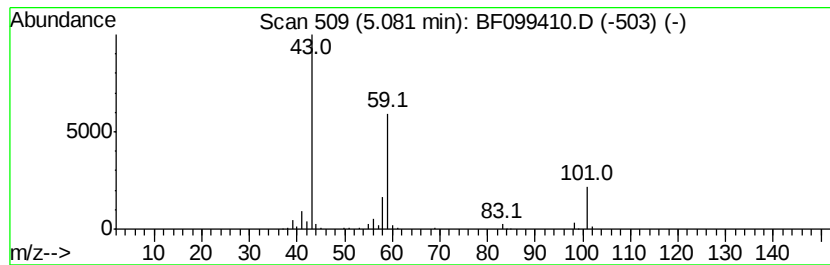
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.08	13.36 ng	463087	1,4-Dichlorobenzene-d4	6.85

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2		Acetic acid, cyano-, 1,1-dimethyl...	141	C7H11NO2	001116-98-9	25
3		(+)-4-Amino-4,5-dihydro-2(3H)-f...	101	C4H7NO2	016504-58-8	9
4		2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
5		Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9



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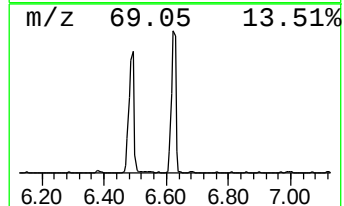
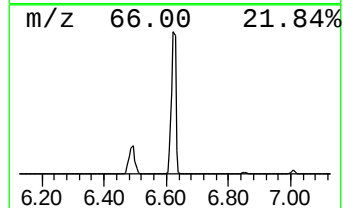
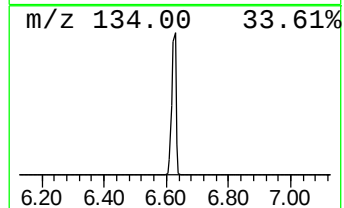
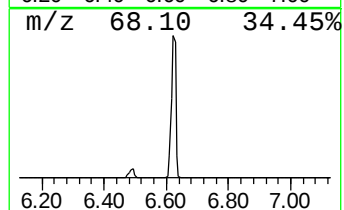
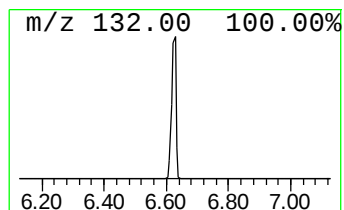
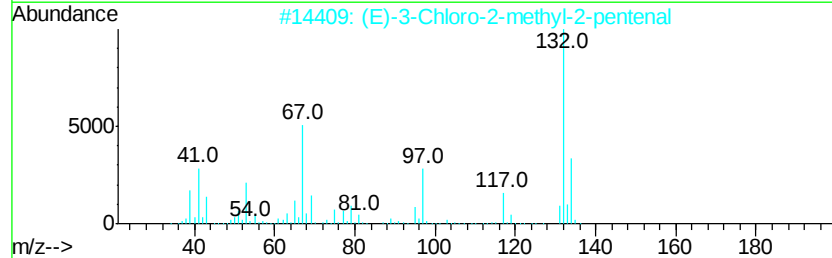
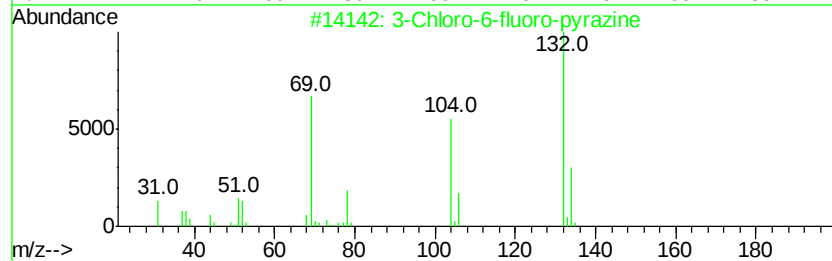
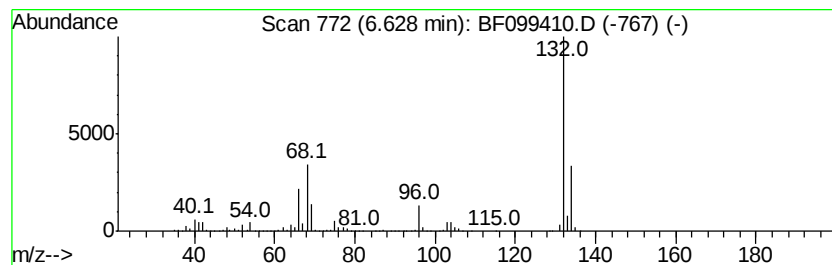
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TIC Library : C:\DATABASE\NIST11.L
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Peak Number 2 unknown6.63 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.63	73.02 ng	2531490	1,4-Dichlorobenzene-d4	6.85

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	38
2		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3		Tranvlcypropine-propionyl	189	C12H15NO	1000123-86-3	12
4		1H-Indazole, 7-methyl-	132	C8H8N2	1000316-00-7	10
5		Xenon	132	Xe	007440-63-3	9



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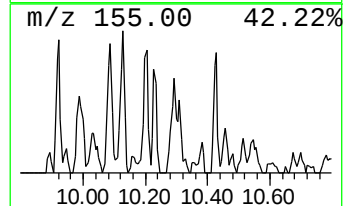
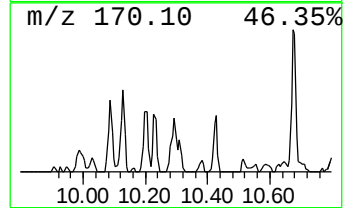
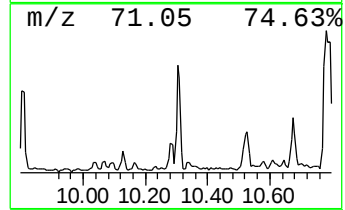
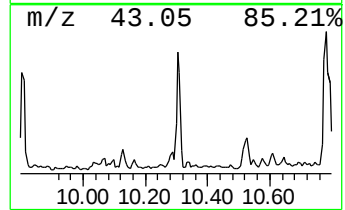
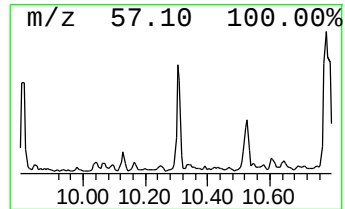
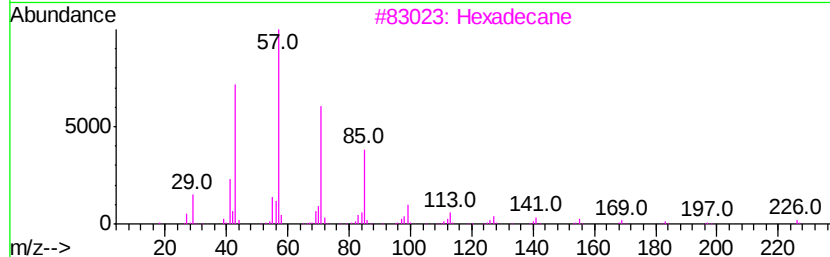
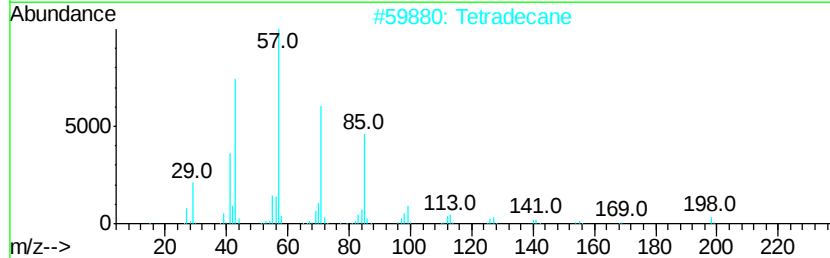
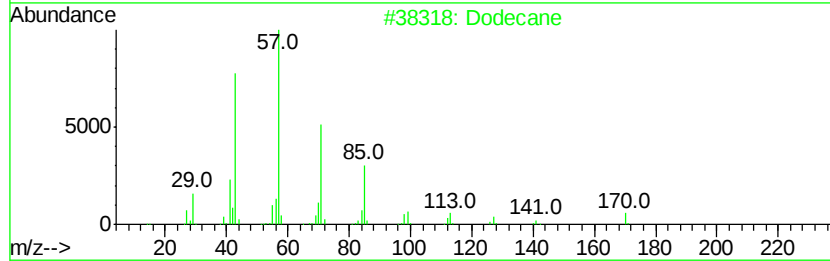
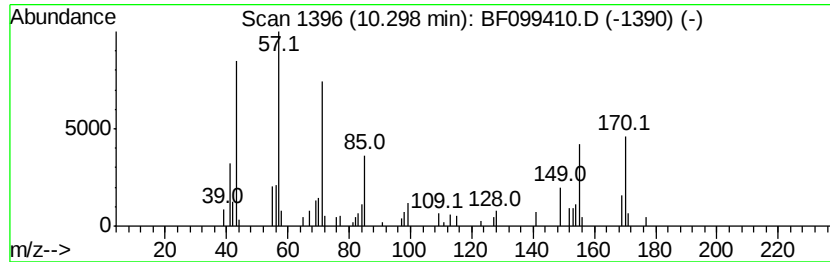
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Peak Number 4 Dodecane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.	
10.30	3.35 ng	143294	Acenaphthene-d10	9.89	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane	170	C12H26	000112-40-3	89
2	Tetradecane	198	C14H30	000629-59-4	74
3	Hexadecane	226	C16H34	000544-76-3	72
4	Eicosane	282	C20H42	000112-95-8	72
5	Pentadecane	212	C15H32	000629-62-9	72



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Acq On : 12 Oct 2017 22:24
Operator : SJ/JU
Sample : I5729-10
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Instrument :
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ClientSampleId :
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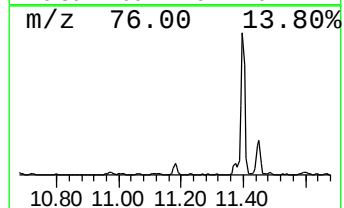
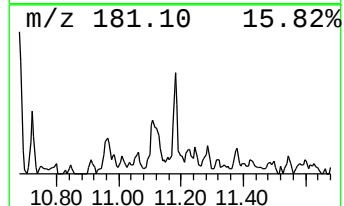
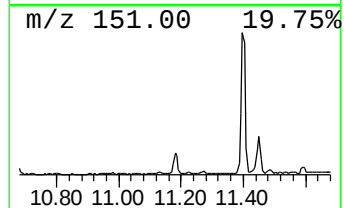
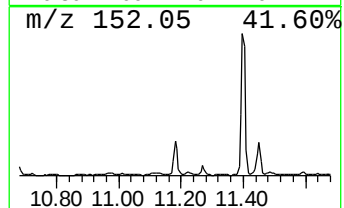
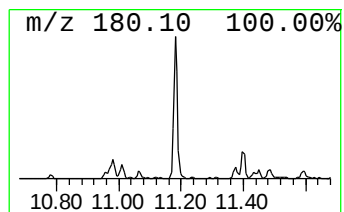
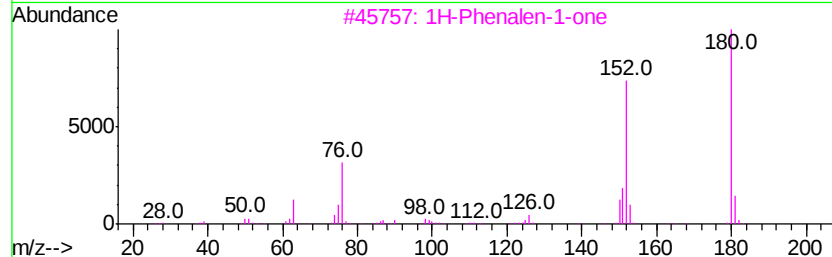
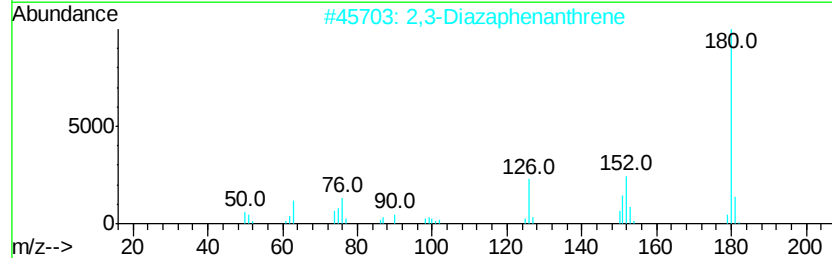
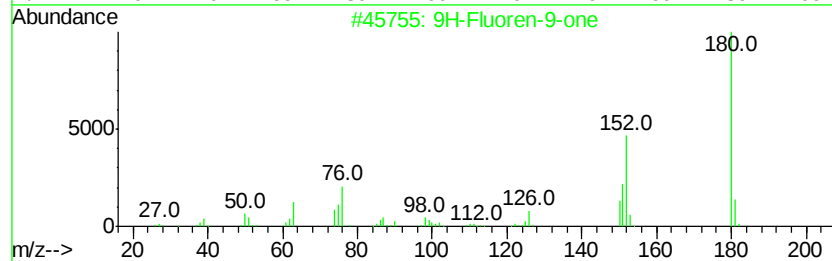
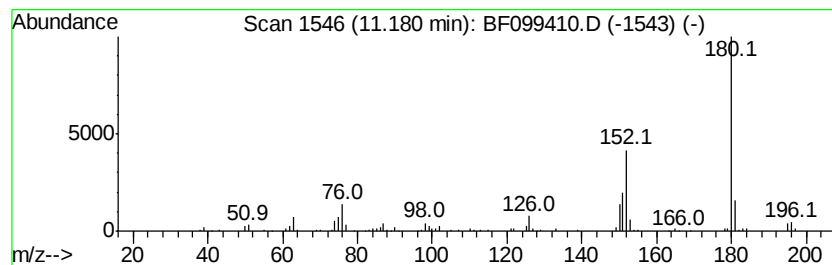
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 9H-Fluoren-9-one Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.18	3.15 ng	111474	Phenanthrene-d10	11.37

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	96
2		2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	72
3		1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
4		Benzo[h]cinnoline	180	C12H8N2	000230-31-9	53
5		Phenazine	180	C12H8N2	000092-82-0	43



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF101217\
Data File : BF099410.D
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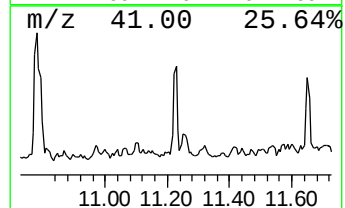
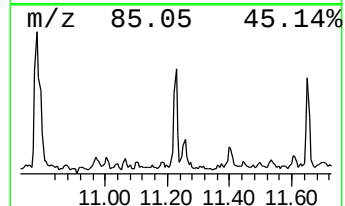
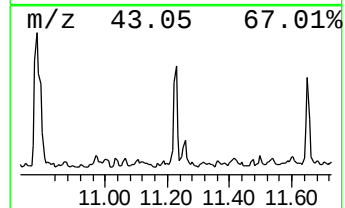
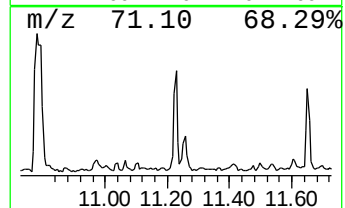
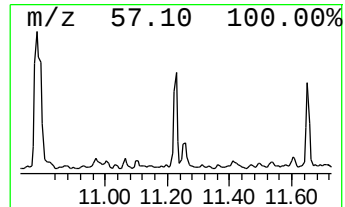
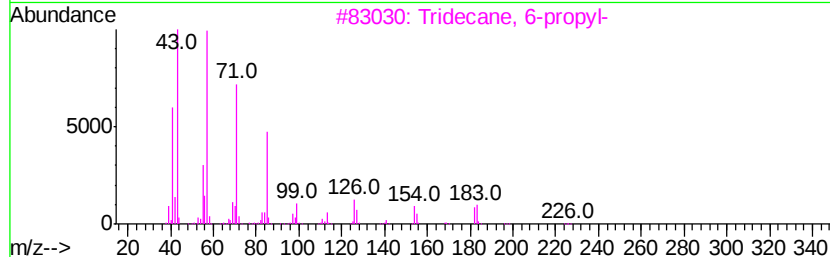
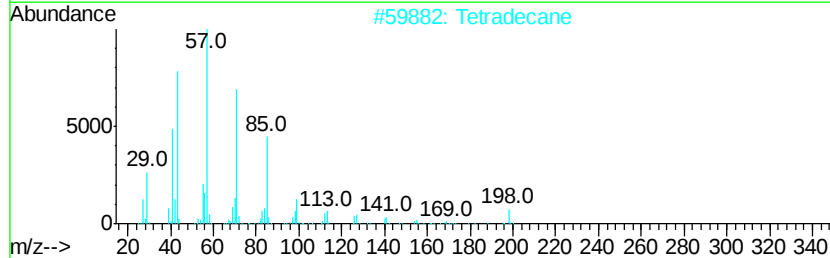
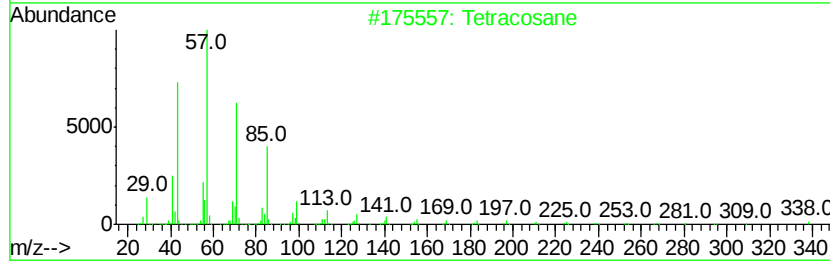
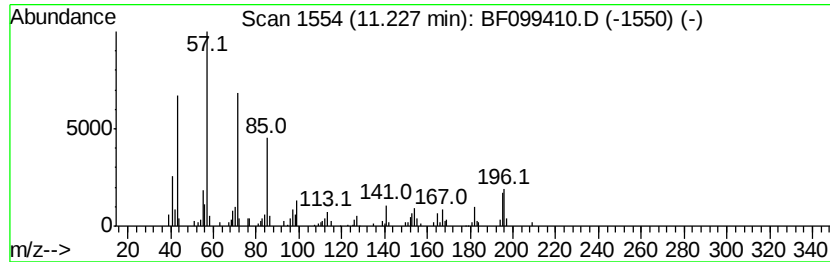
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Tetracosane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.23	3.61 ng	127755	Phenanthrene-d10	11.37

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Tetracosane	338	C24H50	000646-31-1	62
2		Tetradecane	198	C14H30	000629-59-4	58
3		Tridecane, 6-propyl-	226	C16H34	055045-10-8	58
4		Heptacosane	380	C27H56	000593-49-7	58
5		Octadecane	254	C18H38	000593-45-3	58



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF101217\
Data File : BF099410.D
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Operator : SJ/JU
Sample : I5729-10
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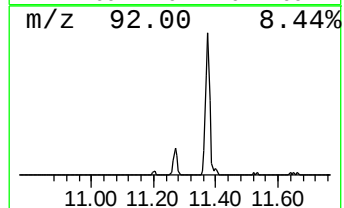
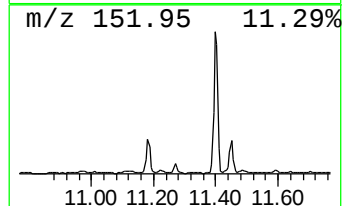
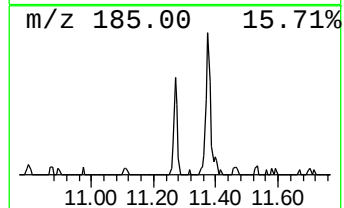
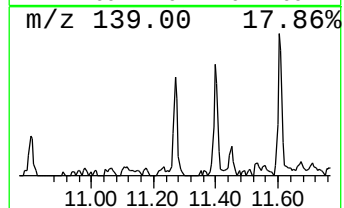
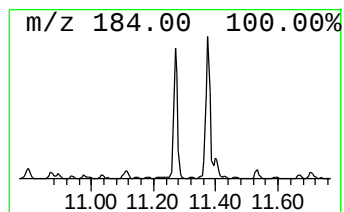
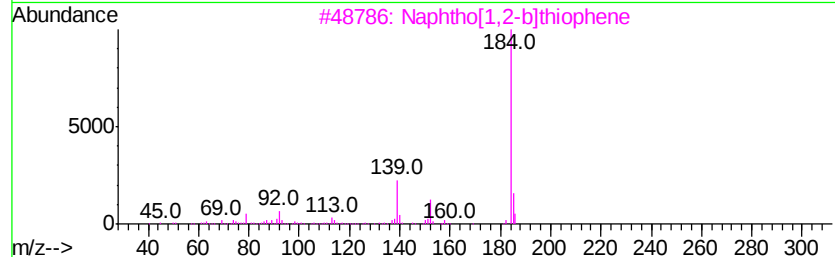
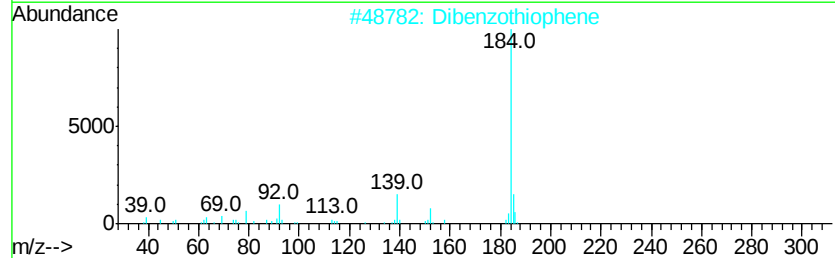
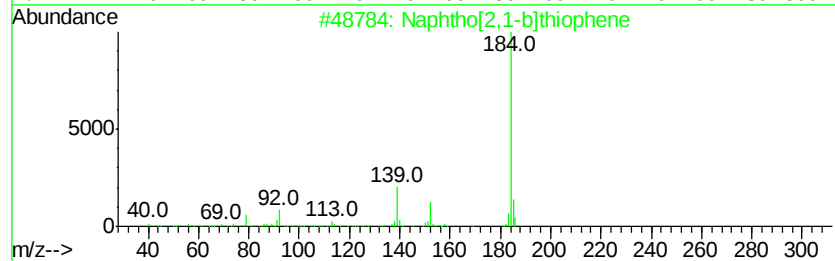
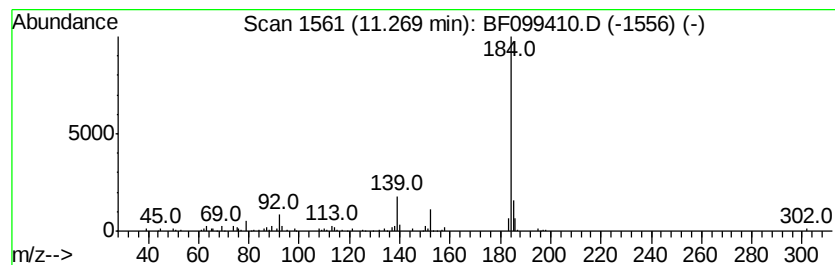
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Naphtho[2,1-b]thiophene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.		
11.27	3.98 ng	140639	Phenanthrene-d10	11.37		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	97
2		Dibenzothiophene	184	C12H8S	000132-65-0	95
3		Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
4		Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
5		Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	72



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF101217\
Data File : BF099410.D
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Operator : SJ/JU
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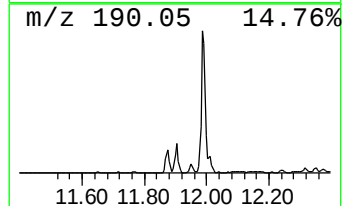
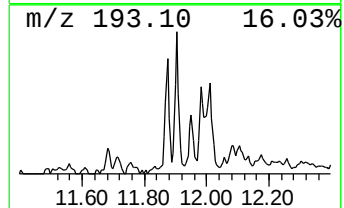
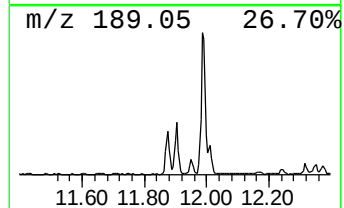
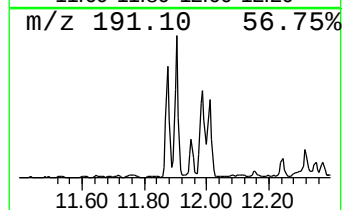
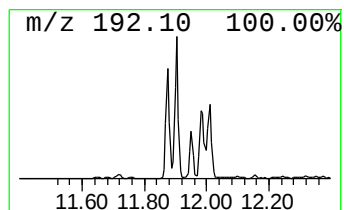
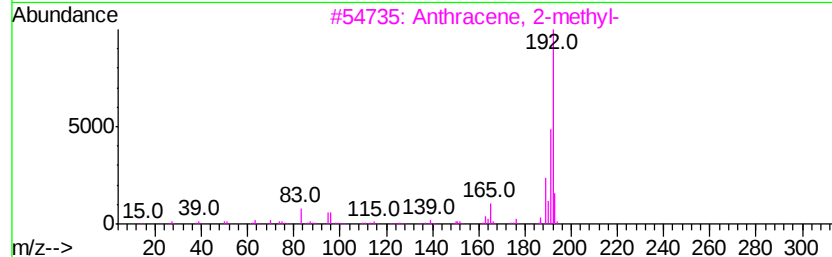
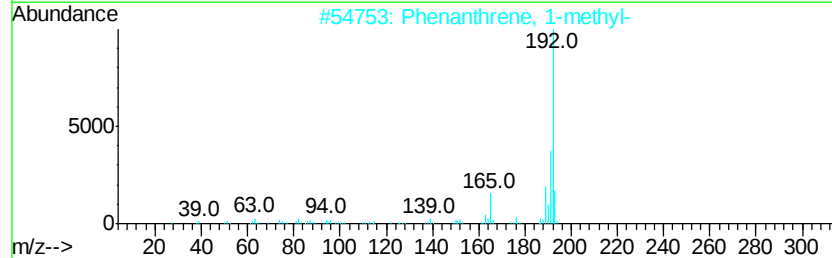
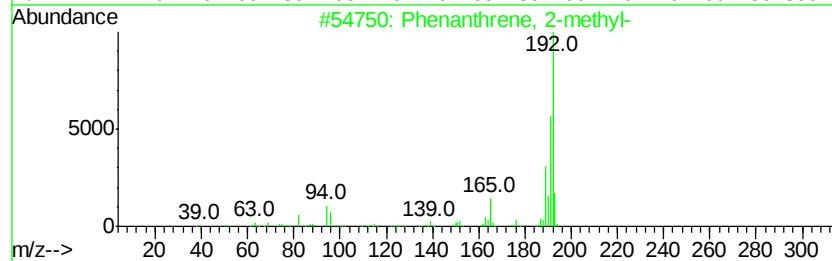
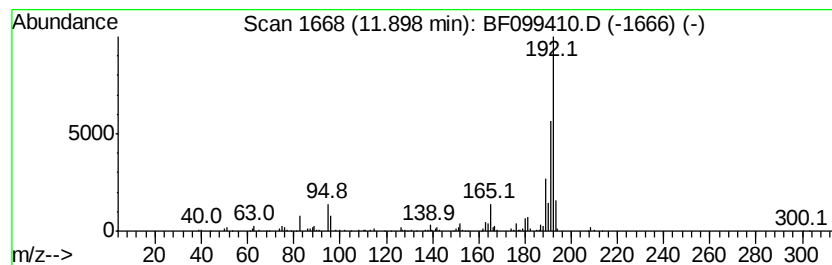
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.90	6.57 ng	232333	Phenanthrene-d10	11.37

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2			Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
3			Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
4			Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	93
5			Anthracene, 9-methyl-	192	C15H12	000779-02-2	91



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF101217\
Data File : BF099410.D
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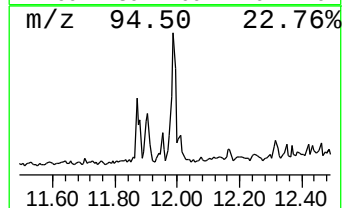
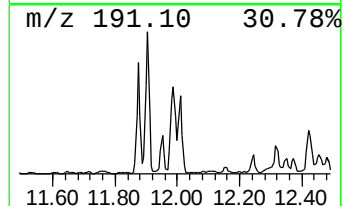
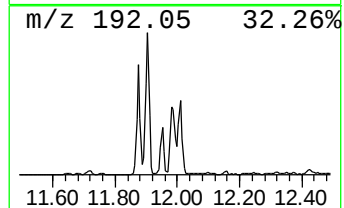
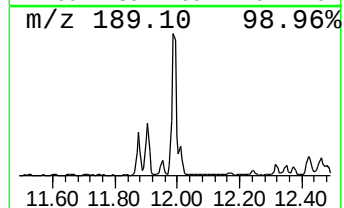
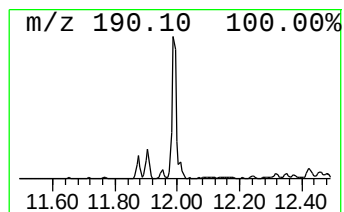
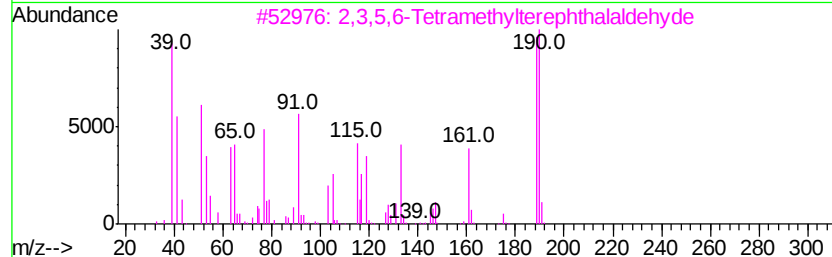
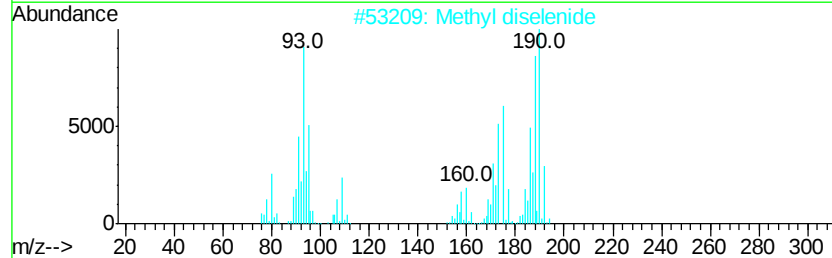
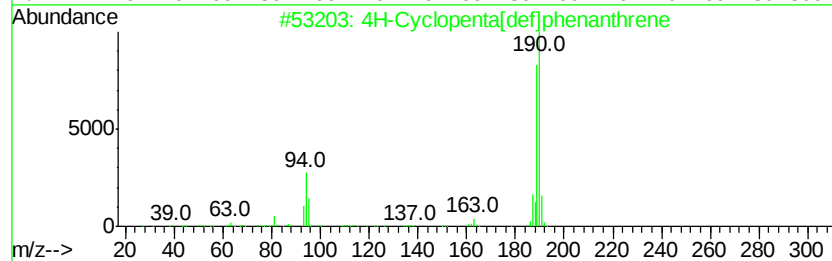
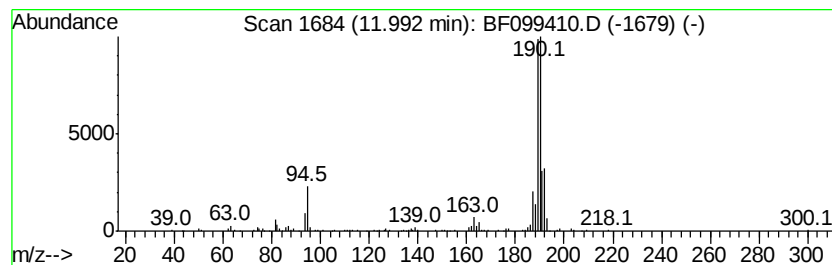
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.99	7.89 ng	279214	Phenanthrene-d10	11.37

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2			Methyl diselenide	190	C2H6Se2	007101-31-7	38
3			2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	38
4			Carbonic acid, ethyl 2-formyl-4,...	262	C10H8Cl2O4	1000331-34-4	38
5			Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	14



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF101217\
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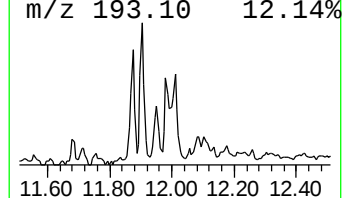
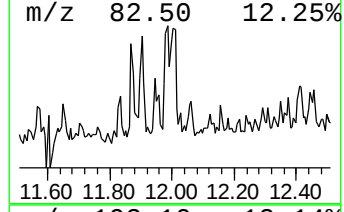
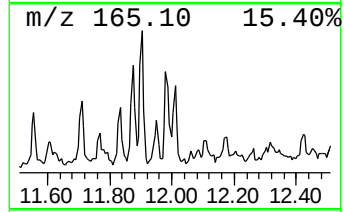
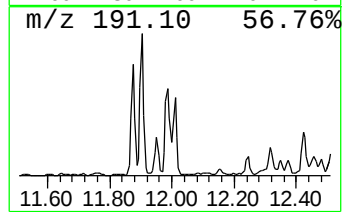
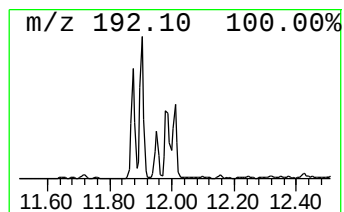
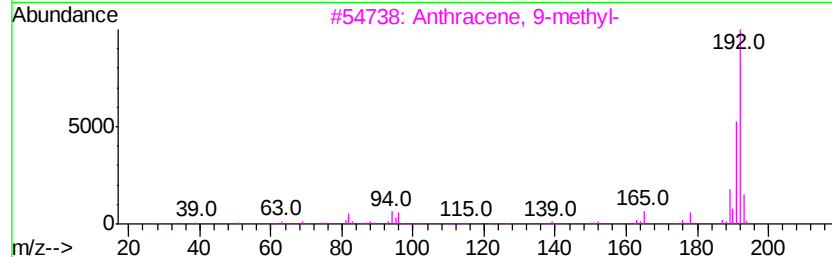
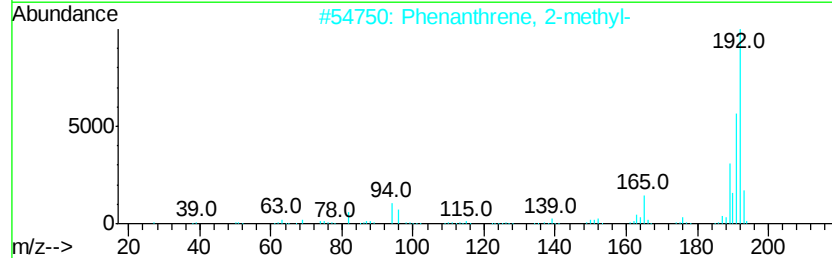
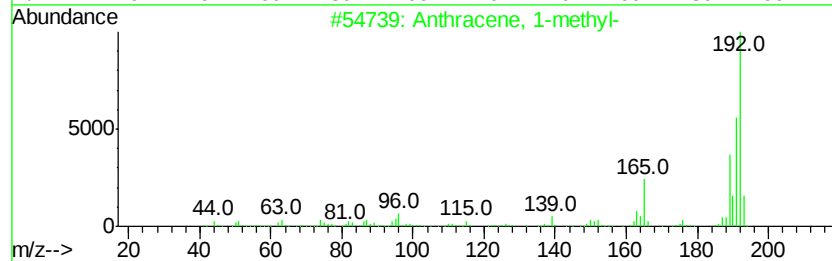
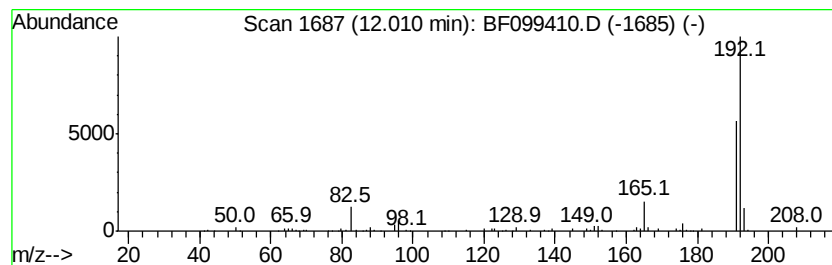
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Anthracene, 1-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.01	2.97 ng	105120	Phenanthrene-d10	11.37

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	86
2		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	80
3		Anthracene, 9-methyl-	192	C15H12	000779-02-2	80
4		Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	80
5		1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	72



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF101217\
Data File : BF099410.D
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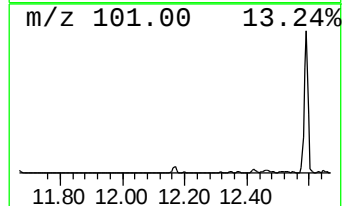
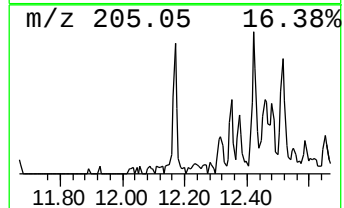
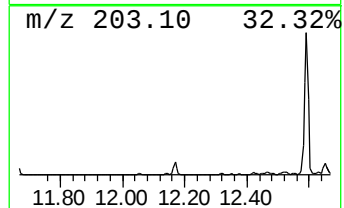
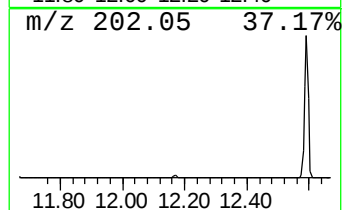
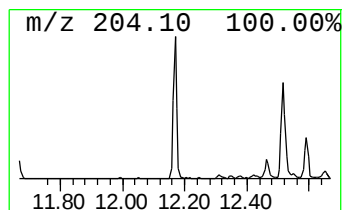
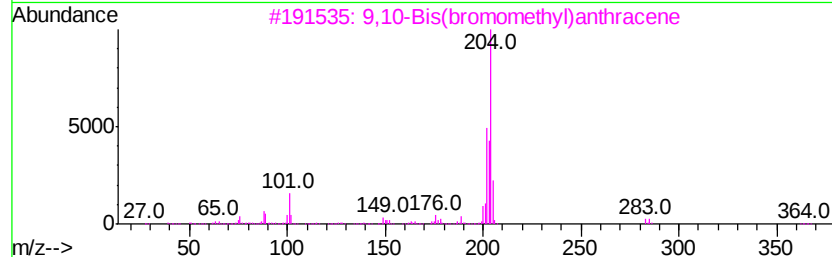
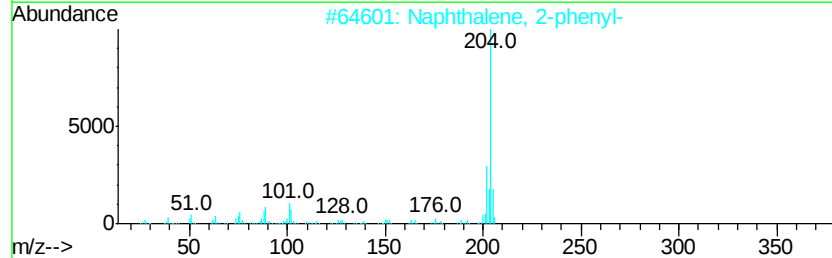
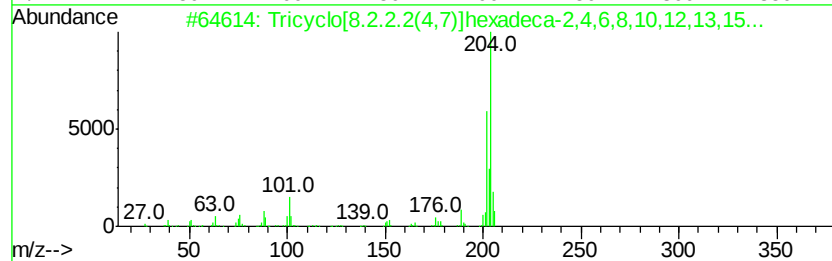
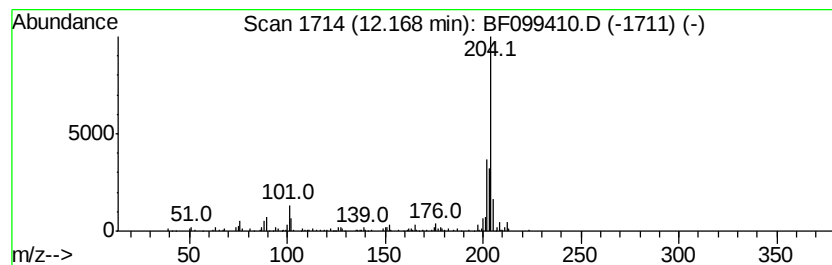
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Tricyclo[8.2.2.2(4,7)]hexad... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.17	3.48 ng	123235	Phenanthrene-d10	11.37

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	94
2		Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	94
3		9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	90
4		5,16[1',2':8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
5		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	70



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF101217\
Data File : BF099410.D
Acq On : 12 Oct 2017 22:24
Operator : SJ/JU
Sample : I5729-10
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
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ClientSampleId :
5S-(2-3)

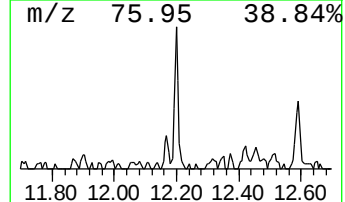
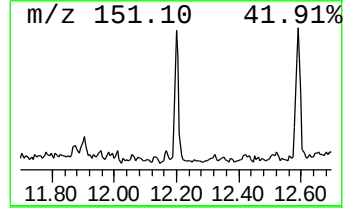
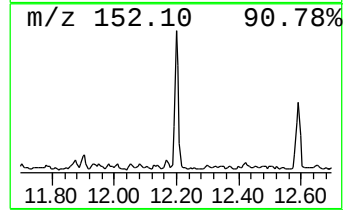
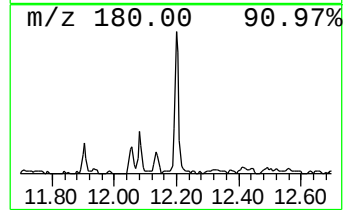
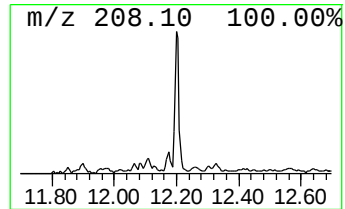
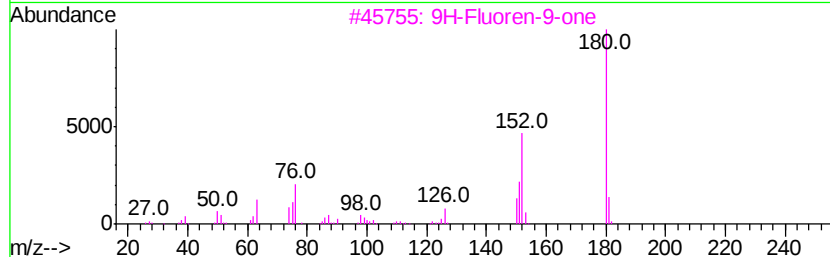
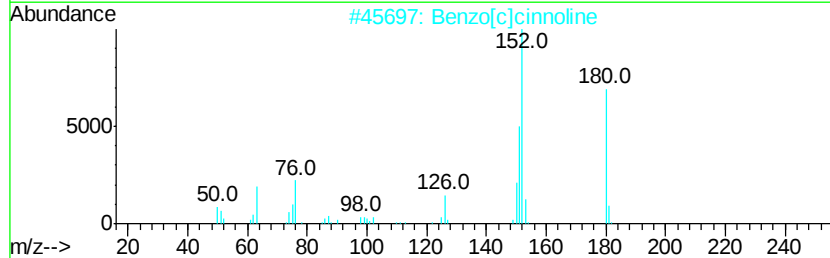
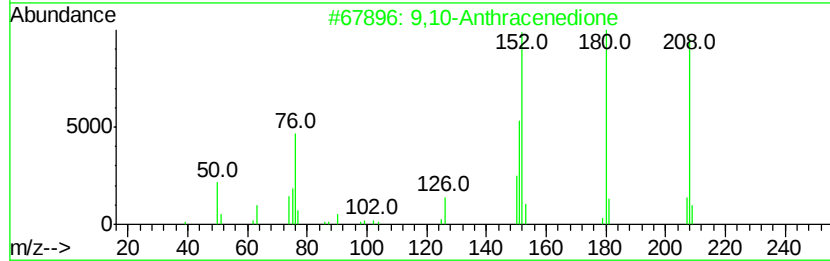
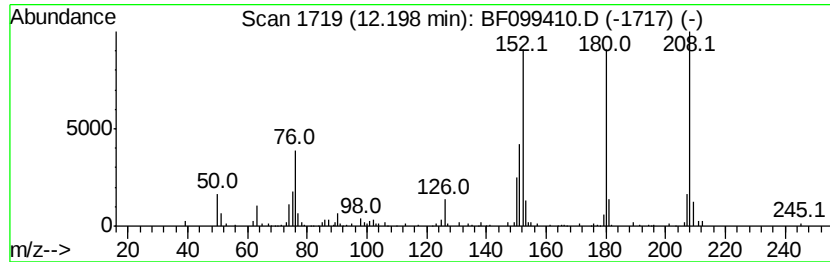
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 9,10-Anthracenedione Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.20	3.78 ng	133642	Phenanthrene-d10	11.37

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	83
3		9H-Fluoren-9-one	180	C13H8O	000486-25-9	70
4		1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
5		Benzo[h]cinnoline	180	C12H8N2	000230-31-9	58



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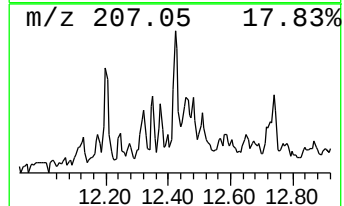
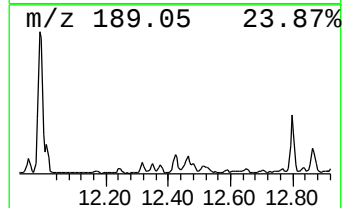
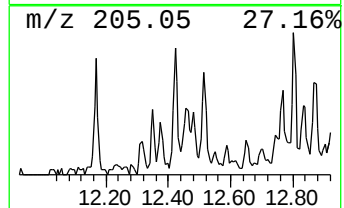
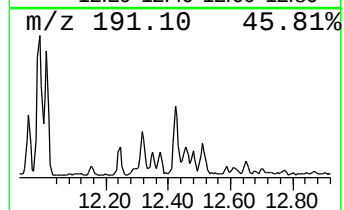
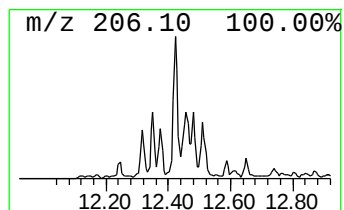
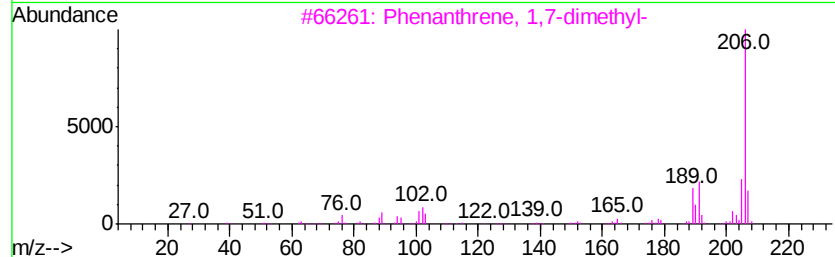
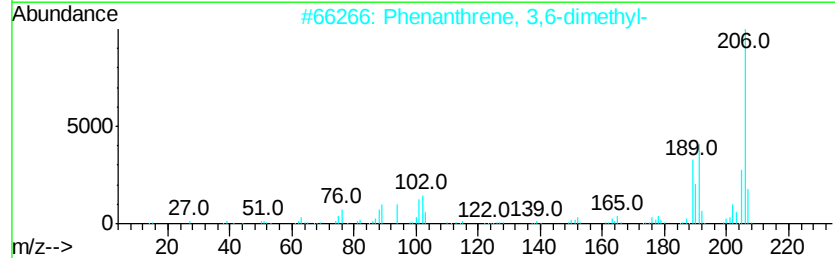
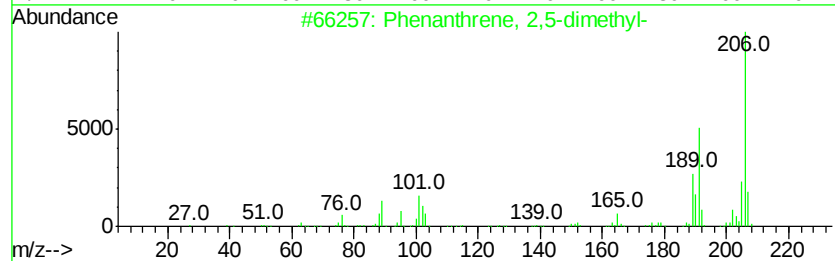
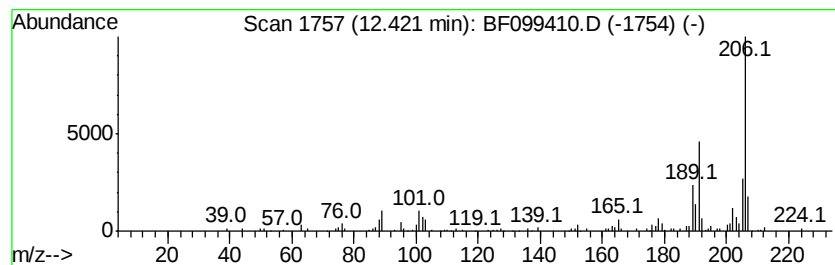
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.42	3.10 ng	109687	Phenanthrene-d10	11.37

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2		Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
3		Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	91
4		9,10-Dimethylantracene	206	C16H14	000781-43-1	91
5		Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	91



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF101217\
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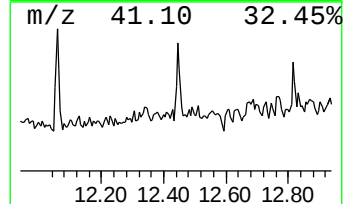
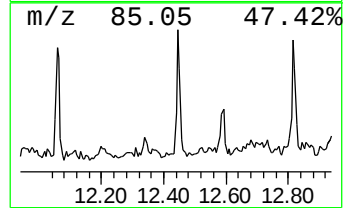
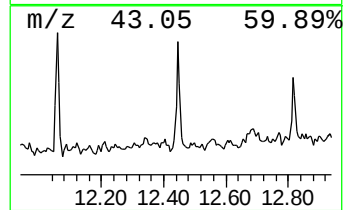
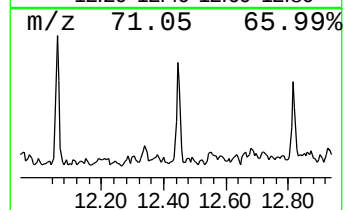
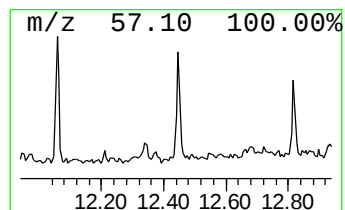
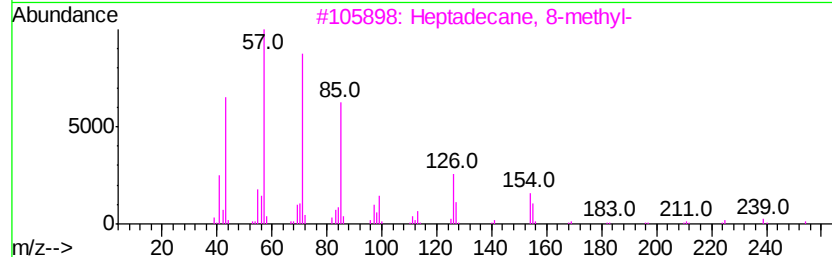
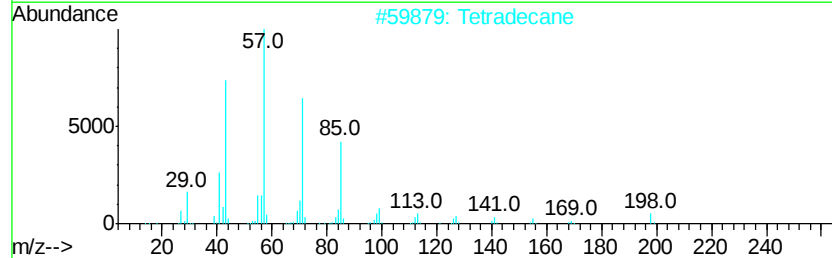
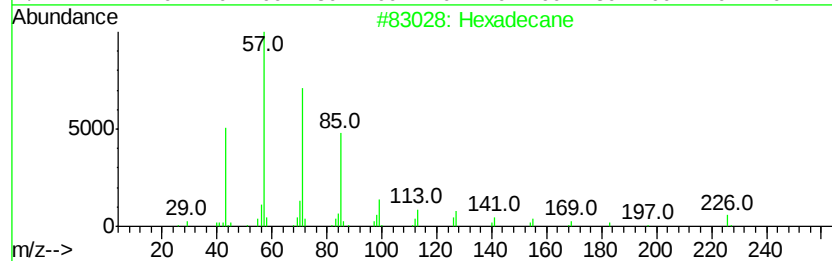
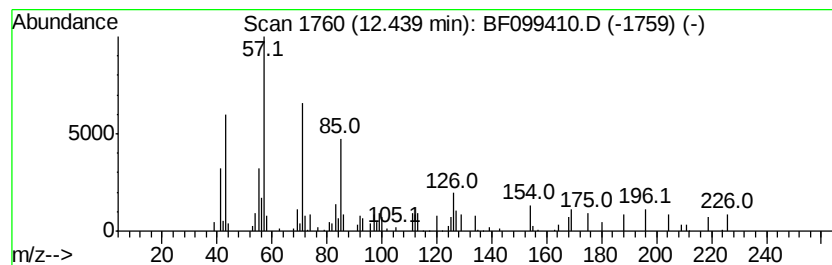
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Hexadecane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.44	4.04 ng	142886	Phenanthrene-d10	11.37

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexadecane	226	C16H34	000544-76-3	86
2			Tetradecane	198	C14H30	000629-59-4	86
3			Heptadecane, 8-methyl-	254	C18H38	013287-23-5	72
4			Nonane, 5-(1-methylpropyl)-	184	C13H28	062185-54-0	52
5			Dodecane, 1-iodo-	296	C12H25I	004292-19-7	49



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF101217\
Data File : BF099410.D
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ClientSampleId :
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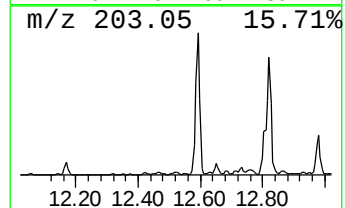
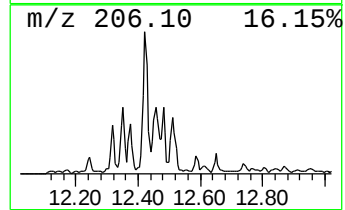
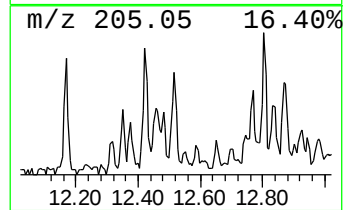
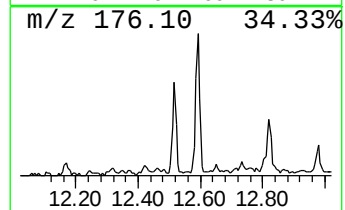
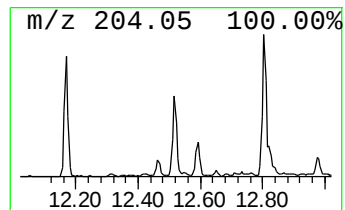
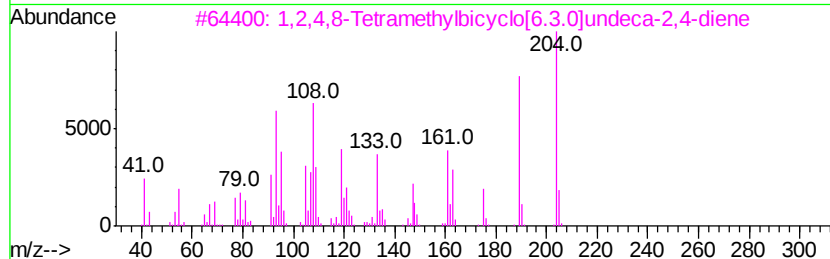
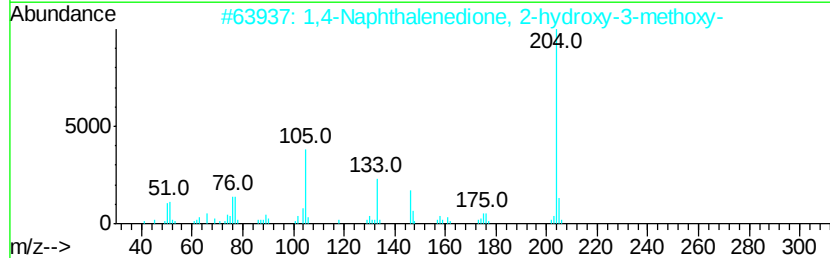
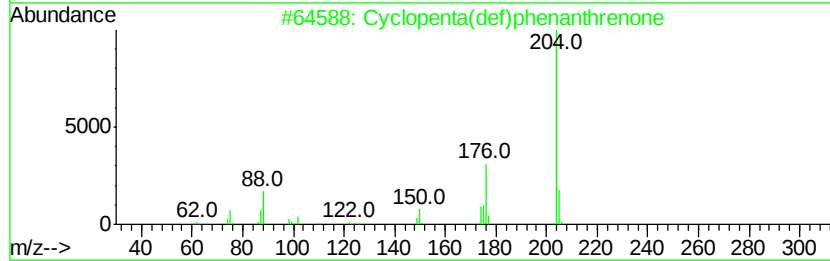
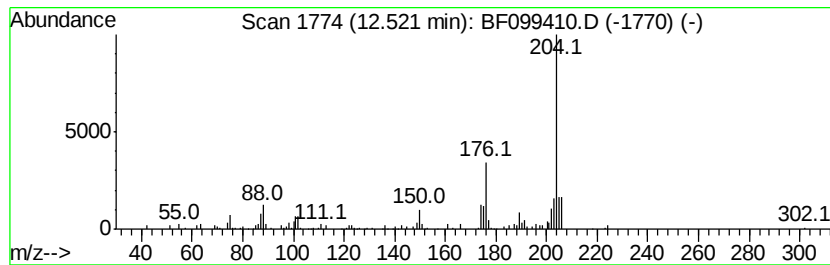
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Cyclopenta(def)phenanthrenone Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.52	3.14 ng	110939	Phenanthrene-d10	11.37

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2			1,4-Naphthalenedione, 2-hydroxyv-...	204	C11H8O4	005257-83-0	43
3			1,2,4,8-Tetramethylbicyclo[6.3.0]...	204	C15H24	137235-51-9	43
4			[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	43
5			3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	42



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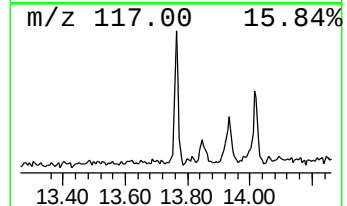
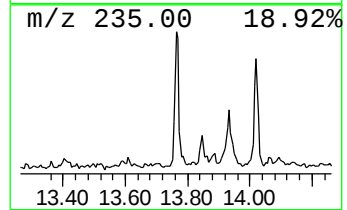
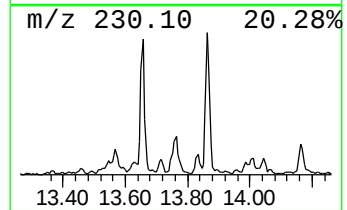
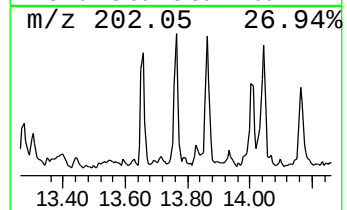
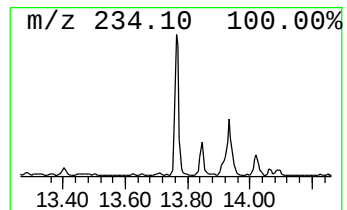
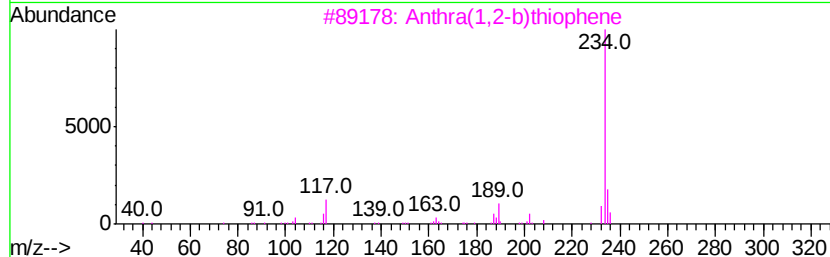
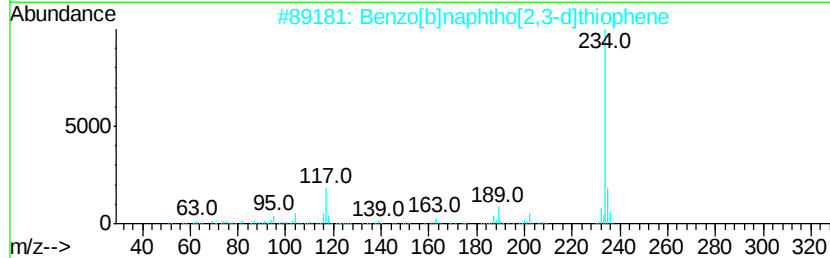
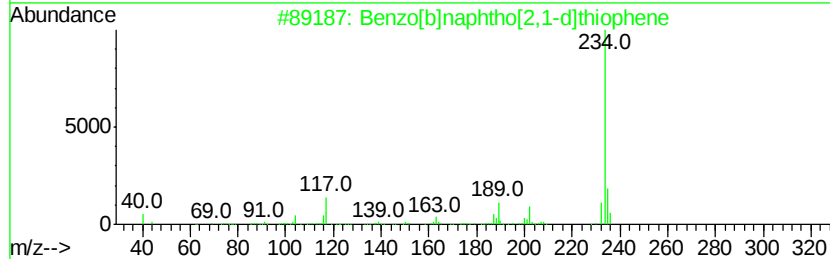
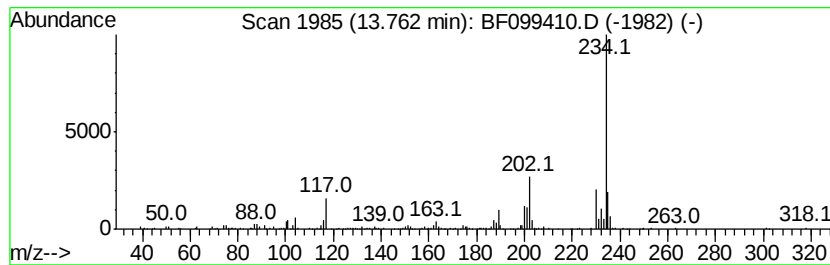
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.76	2.41 ng	183575	Chrysene-d12	14.02

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	95
2			Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	86
3			Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	83
4			Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	78
5			Benzenamine, 2-ethyl-N-(4,4-dime...	234	C13H18N2S	1000272-26-2	46



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF101217\
Data File : BF099410.D
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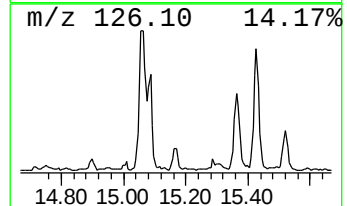
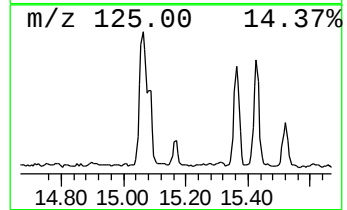
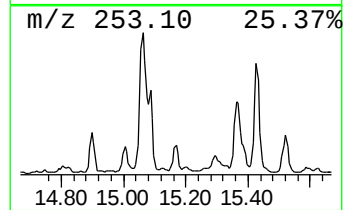
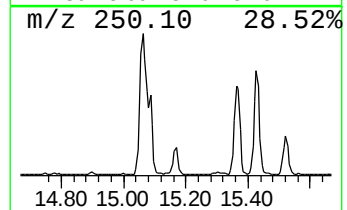
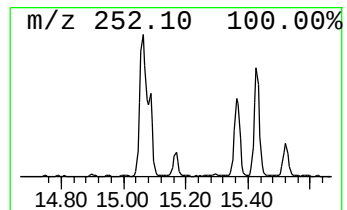
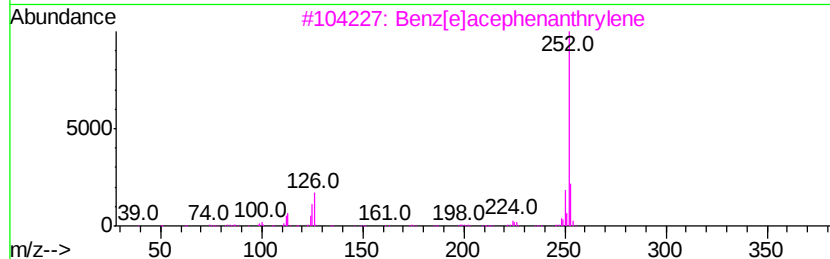
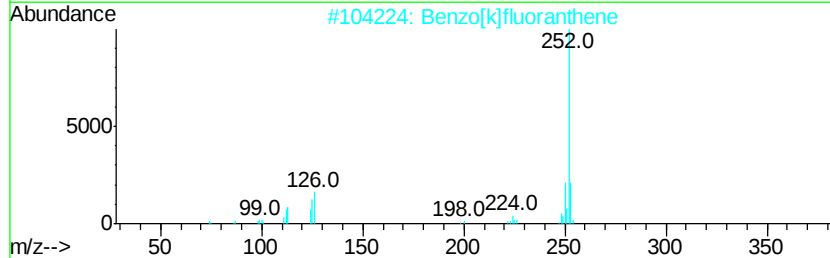
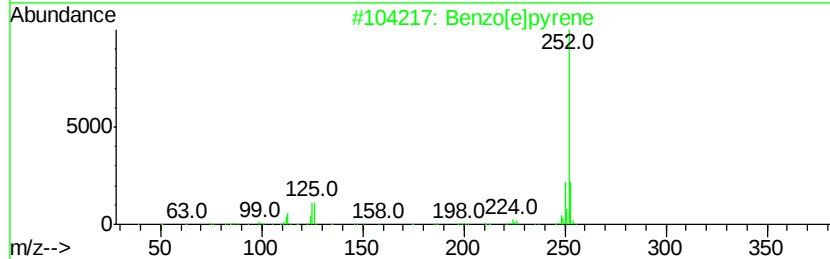
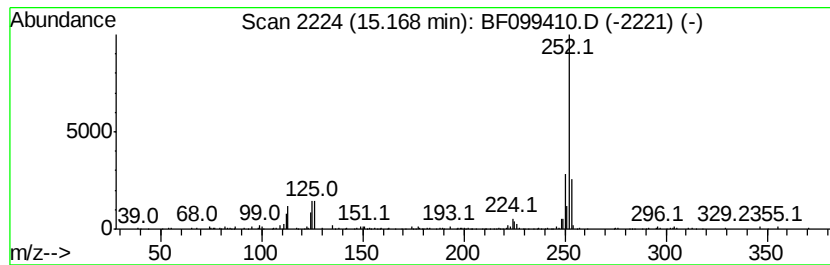
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Benzo[e]pyrene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.17	4.54 ng	115999	Perylene-d12	15.49

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2		Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
3		Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96
4		Perylene	252	C20H12	000198-55-0	93
5		Benzo[a]pyrene	252	C20H12	000050-32-8	90



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF101217\
Data File : BF099410.D
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ALS Vial : 15 Sample Multiplier: 1

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ClientSampleId :
5S-(2-3)

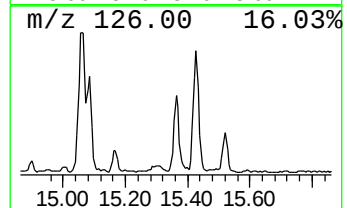
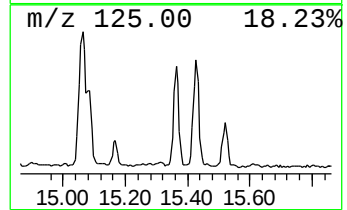
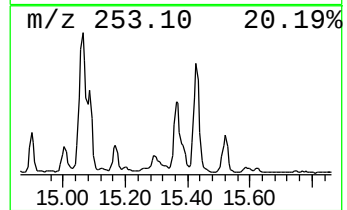
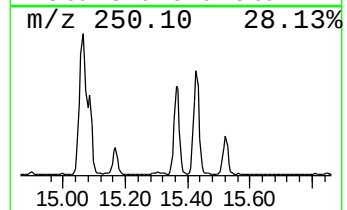
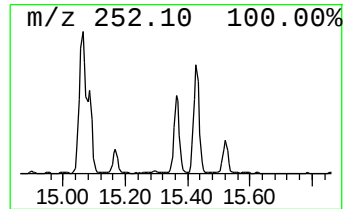
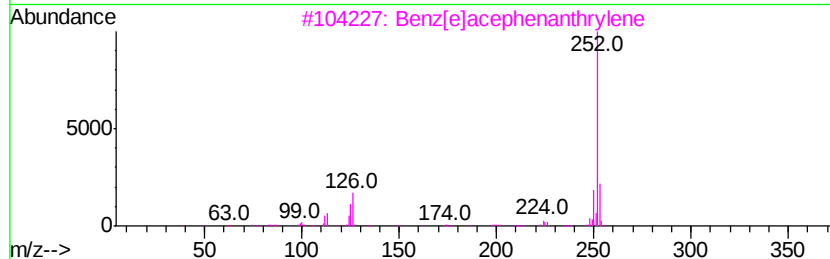
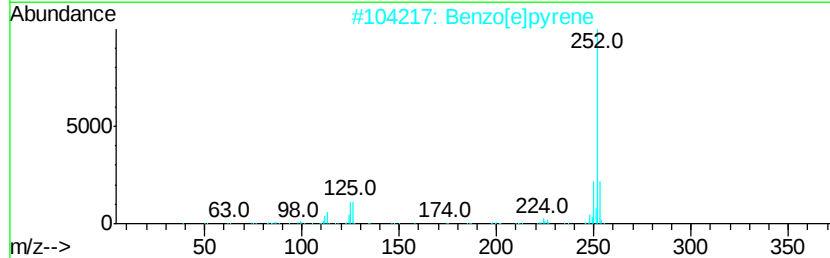
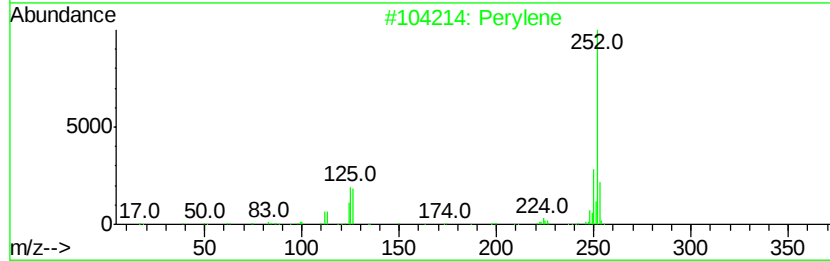
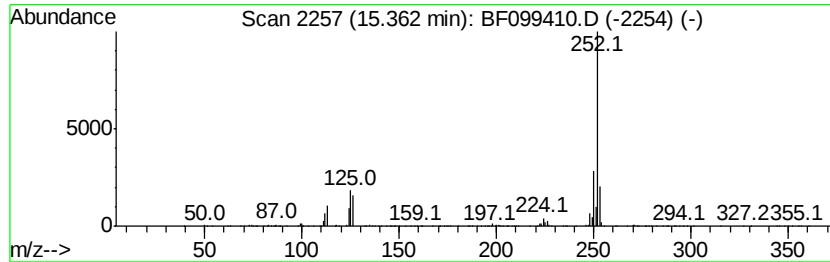
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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.
15.36	16.56 ng	423256	Perylene-d12	15.49

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Perylene	252	C20H12	000198-55-0	99
2		Benzo[el]pyrene	252	C20H12	000192-97-2	98
3		Benzo[el]acephenanthrylene	252	C20H12	000205-99-2	98
4		Benzo[al]pyrene	252	C20H12	000050-32-8	94
5		Benzo[j]fluoranthene	252	C20H12	000205-82-3	93



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA_F\DATA\BF101217\
 Data File : BF099410.D
 Acq On : 12 Oct 2017 22:24
 Operator : SJ/JU
 Sample : I5729-10
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 5S-(2-3)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-hy...	5.08	13.4	ng	463087	1	6.85	693343	20.0
unknown6.63	6.63	73.0	ng	2531490	1	6.85	693343	20.0
Dodecane	10.30	3.4	ng	143294	3	9.89	855875	20.0
9H-Fluoren-9-one	11.18	3.1	ng	111474	4	11.37	707453	20.0
Tetracosane	11.23	3.6	ng	127755	4	11.37	707453	20.0
Naphtho[2,1-b]thi...	11.27	4.0	ng	140639	4	11.37	707453	20.0
Phenanthrene, 2-m...	11.90	6.6	ng	232333	4	11.37	707453	20.0
4H-Cyclopenta[def...	11.99	7.9	ng	279214	4	11.37	707453	20.0
Anthracene, 1-met...	12.01	3.0	ng	105120	4	11.37	707453	20.0
Tricyclo[8.2.2.2(...	12.17	3.5	ng	123235	4	11.37	707453	20.0
9,10-Anthracenedione	12.20	3.8	ng	133642	4	11.37	707453	20.0
Phenanthrene, 2,5...	12.42	3.1	ng	109687	4	11.37	707453	20.0
Hexadecane	12.44	4.0	ng	142886	4	11.37	707453	20.0
Cyclopenta(def)ph...	12.52	3.1	ng	110939	4	11.37	707453	20.0
Benzo[b]naphtho[2...	13.76	2.4	ng	183575	5	14.02	1522550	20.0
Benzo[e]pyrene	15.17	4.5	ng	115999	6	15.49	511318	20.0
Perylene	15.36	16.6	ng	423256	6	15.49	511318	20.0