

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042215\
 Data File : BF078742.D
 Acq On : 23 Apr 2015 7:10
 Operator : TP/IZ
 Sample : G1938-16
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-79D

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-BF040115.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	1.415	18	20	25	rBV	89326	188698	10.57%	1.015%
2	1.495	25	27	61	rVB	925198	1784461	100.00%	9.602%
3	3.290	182	184	197	rVB	77638	109516	6.14%	0.589%
4	3.804	226	229	242	rVB	489577	745241	41.76%	4.010%
5	5.290	357	359	368	rBV	615577	779207	43.67%	4.193%
6	5.427	368	371	374	rVV	591067	815149	45.68%	4.386%
7	5.781	400	402	406	rBB	96986	132987	7.45%	0.716%
8	6.021	420	423	426	rBV	501496	586814	32.88%	3.157%
9	6.730	482	485	487	rBV	357484	495270	27.75%	2.665%
10	7.942	588	591	593	rBV	150248	198159	11.10%	1.066%
11	9.965	764	768	770	rBV	671945	937984	52.56%	5.047%
12	10.765	834	838	841	rBB	33923	47271	2.65%	0.254%
13	11.131	867	870	873	rBV	189725	239119	13.40%	1.287%
14	11.188	873	875	878	rVV	79161	91290	5.12%	0.491%
15	11.519	902	904	912	rBV2	38809	83366	4.67%	0.449%
16	12.148	956	959	963	rBV	65508	91785	5.14%	0.494%
17	12.605	995	999	1004	rBV	477230	706902	39.61%	3.804%
18	13.188	1046	1050	1052	rBV	12562	24636	1.38%	0.133%
19	13.531	1077	1080	1082	rVV	19735	31303	1.75%	0.168%
20	13.668	1086	1092	1096	rVB2	27926	58633	3.29%	0.315%
21	13.862	1106	1109	1111	rBV	202528	293678	16.46%	1.580%
22	13.908	1111	1113	1116	rVV	604896	756174	42.38%	4.069%
23	13.999	1116	1121	1124	rVB	157582	218751	12.26%	1.177%
24	14.331	1147	1150	1153	rBV	53239	71093	3.98%	0.383%
25	14.742	1183	1186	1188	rBV	67042	86203	4.83%	0.464%
26	14.788	1188	1190	1192	rVV	95177	110223	6.18%	0.593%
27	14.857	1195	1196	1198	rVV	34404	50871	2.85%	0.274%
28	14.902	1198	1200	1202	rVV3	68658	126509	7.09%	0.681%
29	14.948	1202	1204	1207	rVB	65456	84244	4.72%	0.453%
30	15.234	1227	1229	1233	rBV2	46396	96185	5.39%	0.518%
31	15.302	1233	1235	1240	rVB3	25595	49330	2.76%	0.265%
32	15.451	1245	1248	1249	rBV	16877	24612	1.38%	0.132%
33	15.485	1249	1251	1254	rVB2	38353	58318	3.27%	0.314%
34	15.600	1259	1261	1263	rVV2	40077	79594	4.46%	0.428%

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35	15.645	1263	1265	1266	rVV2	29232	51114	2.86%	0.275%
36	15.680	1266	1268	1270	rVV	35426	62517	3.50%	0.336%
37	15.725	1270	1272	1276	rVV3	24066	50737	2.84%	0.273%
38	15.805	1276	1279	1283	rVB	663488	874752	49.02%	4.707%
39	15.931	1288	1290	1292	rVB2	38483	44073	2.47%	0.237%
40	16.000	1294	1296	1301	rBV4	21951	40457	2.27%	0.218%
41	16.114	1303	1306	1309	rVB	635450	766576	42.96%	4.125%
42	16.205	1312	1314	1316	rBV	22335	26198	1.47%	0.141%
43	16.331	1320	1325	1329	rVV3	44640	101494	5.69%	0.546%
44	16.400	1329	1331	1334	rVV	945984	1113676	62.41%	5.992%
45	16.445	1334	1335	1338	rVB	26630	37165	2.08%	0.200%
46	16.560	1342	1345	1347	rBV	220980	273496	15.33%	1.472%
47	16.594	1347	1348	1350	rVB	69177	63314	3.55%	0.341%
48	16.685	1354	1356	1358	rBV	45518	52628	2.95%	0.283%
49	16.720	1358	1359	1366	rBV2	37082	92789	5.20%	0.499%
50	16.845	1368	1370	1372	rVV	34035	38204	2.14%	0.206%
51	16.880	1372	1373	1375	rVB	23904	23293	1.31%	0.125%
52	17.005	1382	1384	1388	rVB3	17823	30033	1.68%	0.162%
53	17.177	1394	1399	1401	rVB2	12167	32890	1.84%	0.177%
54	17.268	1401	1407	1412	rBV	35418	73501	4.12%	0.395%
55	17.405	1416	1419	1421	rBV2	42495	58540	3.28%	0.315%
56	17.451	1421	1423	1426	rVV2	50558	83412	4.67%	0.449%
57	17.508	1426	1428	1430	rVV2	27515	38047	2.13%	0.205%
58	17.554	1430	1432	1435	rVB	34214	45323	2.54%	0.244%
59	17.726	1442	1447	1449	rBV2	425465	822933	46.12%	4.428%
60	17.771	1449	1451	1453	rVV	263879	336963	18.88%	1.813%
61	17.863	1457	1459	1462	rBV	105961	137482	7.70%	0.740%
62	18.011	1470	1472	1474	rVB2	26819	38490	2.16%	0.207%
63	18.057	1474	1476	1478	rBV	30642	40019	2.24%	0.215%
64	18.251	1490	1493	1495	rBV	47921	71806	4.02%	0.386%
65	18.286	1495	1496	1499	rVB	24035	25757	1.44%	0.139%
66	18.354	1499	1502	1504	rBV3	17830	41750	2.34%	0.225%
67	18.457	1509	1511	1515	rVB2	15292	25713	1.44%	0.138%
68	18.526	1515	1517	1521	rBV	35834	49771	2.79%	0.268%
69	18.651	1524	1528	1534	rBV5	15355	34124	1.91%	0.184%
70	18.857	1542	1546	1549	rBV3	26657	51141	2.87%	0.275%
71	19.028	1558	1561	1567	rBV	220038	447880	25.10%	2.410%

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72	19.143	1567	1571	1574	rVB2	41044	62325	3.49%	0.335%
73	19.269	1579	1582	1583	rBV	17269	34010	1.91%	0.183%
74	19.291	1583	1584	1586	rVV2	23266	44944	2.52%	0.242%
75	19.337	1586	1588	1591	rVV	142426	182057	10.20%	0.980%
76	19.394	1591	1593	1596	rVV	186841	248249	13.91%	1.336%
77	19.463	1596	1599	1603	rVV2	277891	393825	22.07%	2.119%
78	19.531	1603	1605	1608	rVV2	10777	23186	1.30%	0.125%
79	19.646	1612	1615	1616	rBV2	10226	22317	1.25%	0.120%
80	19.680	1616	1618	1623	rVB4	13631	33697	1.89%	0.181%
81	19.771	1623	1626	1627	rBV2	12224	23311	1.31%	0.125%
82	19.954	1640	1642	1647	rVB3	13460	22341	1.25%	0.120%
83	20.091	1649	1654	1658	rVV5	19349	56789	3.18%	0.306%
84	20.411	1678	1682	1683	rBV3	13162	28975	1.62%	0.156%
85	20.457	1683	1686	1689	rVB3	16293	34059	1.91%	0.183%
86	20.526	1689	1692	1698	rBV2	23924	58346	3.27%	0.314%
87	20.640	1699	1702	1707	rVV2	82677	158305	8.87%	0.852%
88	20.789	1712	1715	1716	rBV2	20938	37912	2.12%	0.204%
89	20.823	1716	1718	1720	rVV3	20905	40075	2.25%	0.216%
90	20.960	1725	1730	1734	rBV	64357	129452	7.25%	0.697%
91	21.120	1740	1744	1747	rBV2	27177	70161	3.93%	0.378%
92	21.383	1761	1767	1771	rVB7	8392	29310	1.64%	0.158%
93	21.634	1784	1789	1795	rBV7	8575	30512	1.71%	0.164%
94	21.794	1799	1803	1808	rBV4	8136	24687	1.38%	0.133%
95	22.480	1858	1863	1867	rBV2	67368	181466	10.17%	0.976%
96	22.549	1867	1869	1877	rVB2	17238	41843	2.34%	0.225%
97	22.675	1877	1880	1883	rBV	8551	22830	1.28%	0.123%
98	23.315	1932	1936	1938	rBV2	8707	22504	1.26%	0.121%
99	23.383	1938	1942	1950	rVV3	13382	50913	2.85%	0.274%
100	23.520	1950	1954	1958	rVV3	6884	24876	1.39%	0.134%

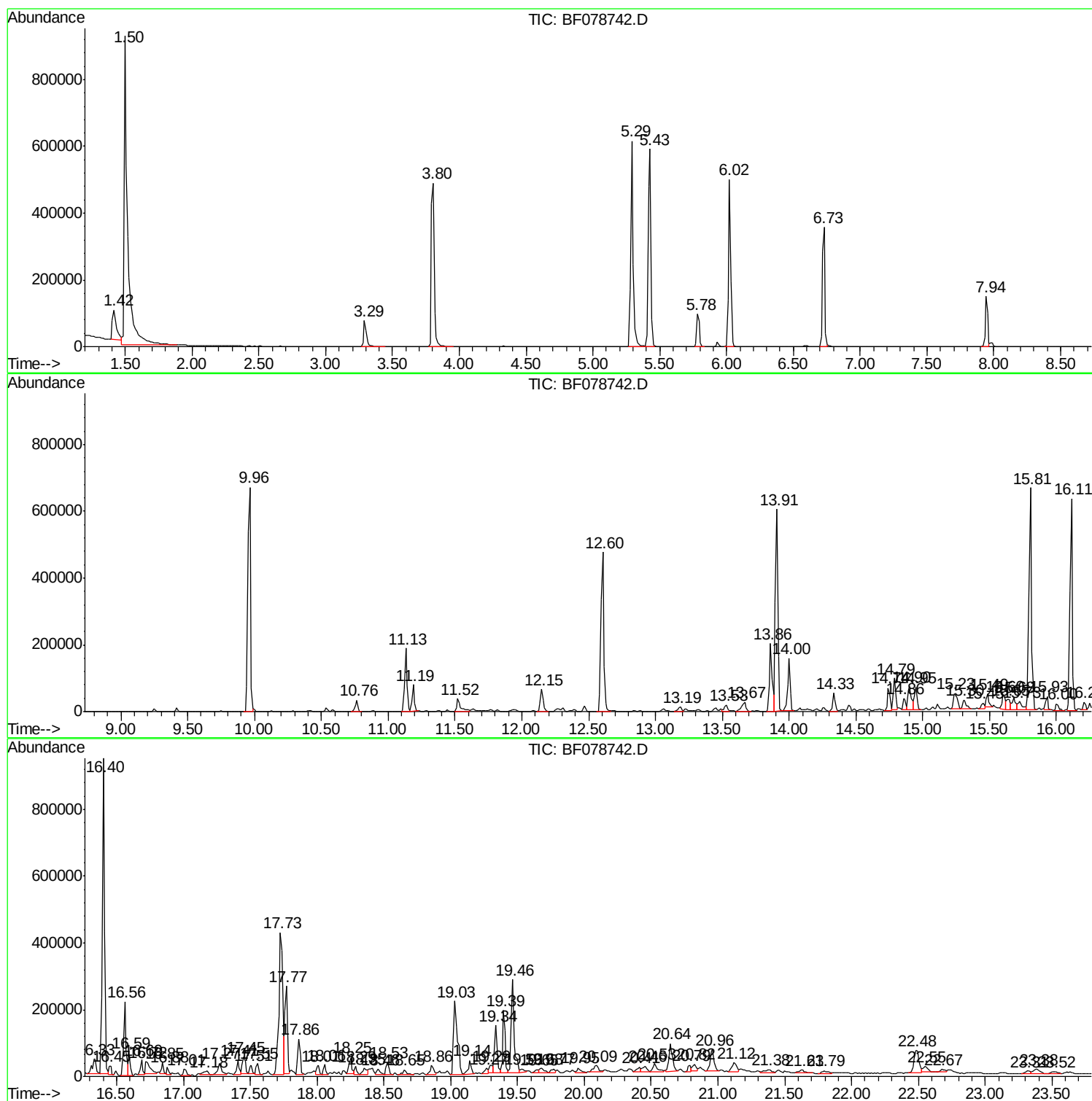
Sum of corrected areas: 18584911

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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



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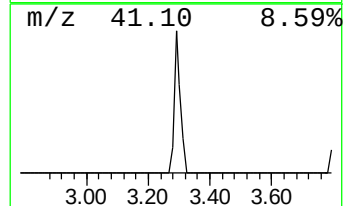
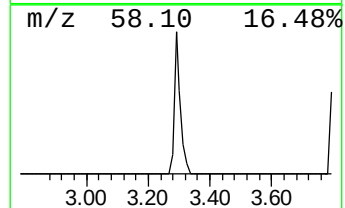
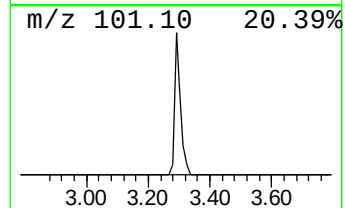
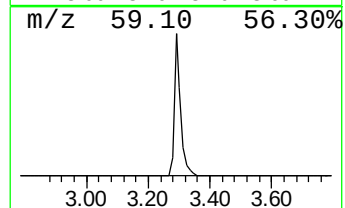
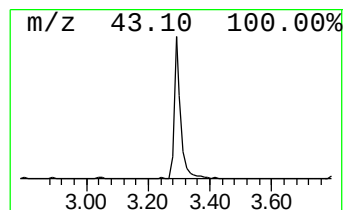
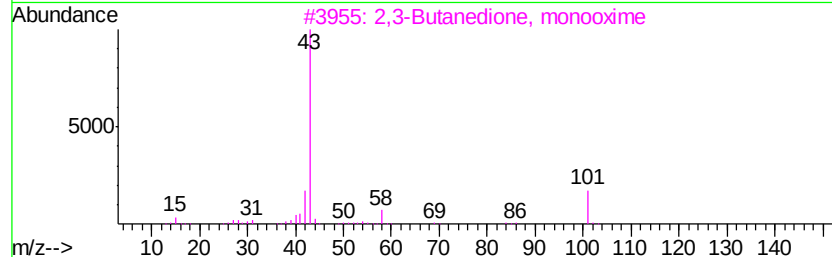
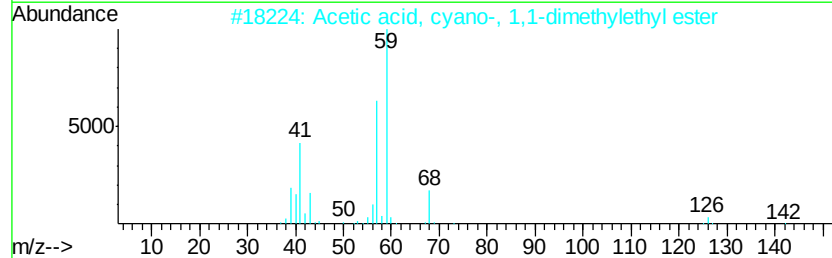
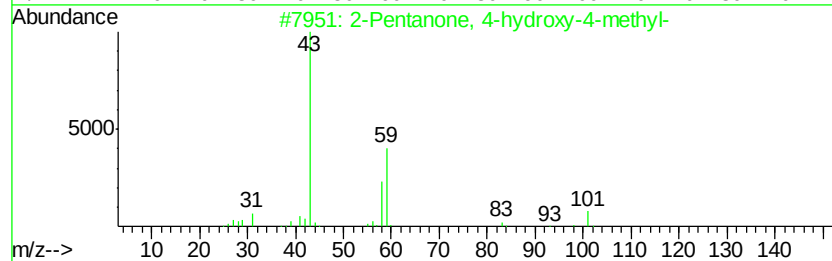
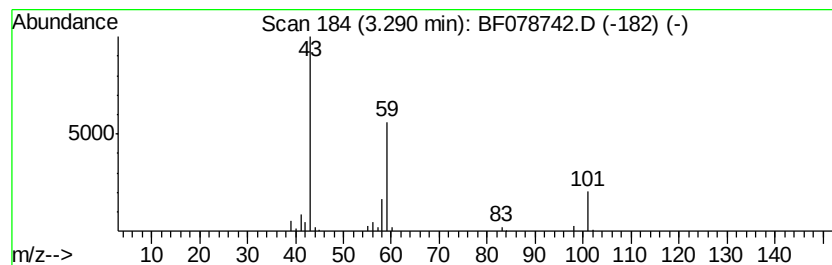
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.29	16.47 ng	109516	1,4-Dichlorobenzene-d4	5.78

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-			116	C6H12O2	000123-42-2	56
2	Acetic acid, cyano-, 1,1-dimethyl...			141	C7H11NO2	001116-98-9	23
3	2,3-Butanedione, monooxime			101	C4H7NO2	000057-71-6	9
4	1-Propen-2-ol, acetate			100	C5H8O2	000108-22-5	9
5	Acetic acid, 1,1-dimethylethyl e...			116	C6H12O2	000540-88-5	9



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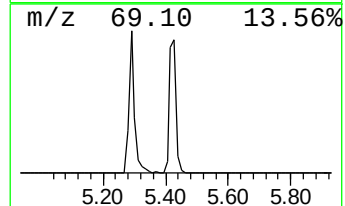
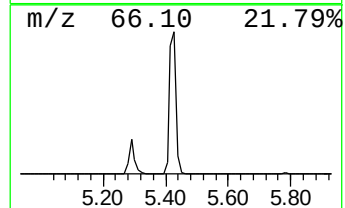
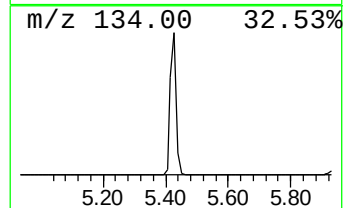
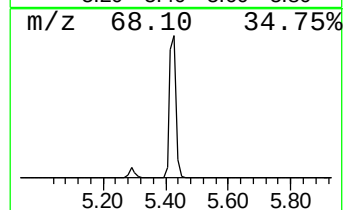
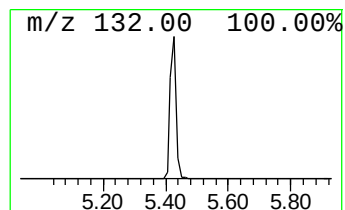
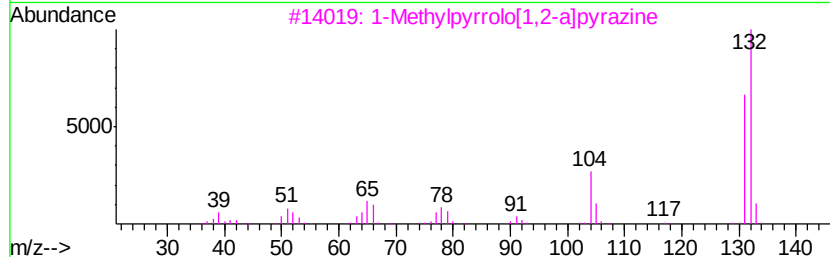
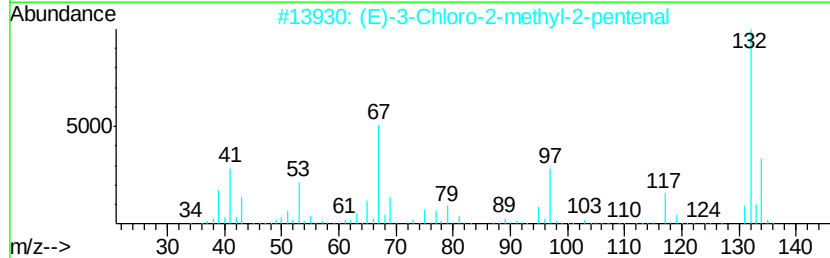
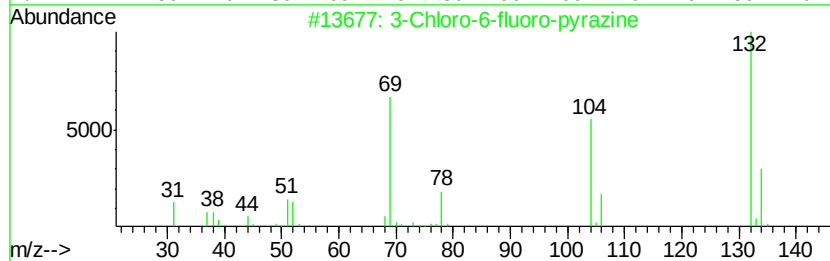
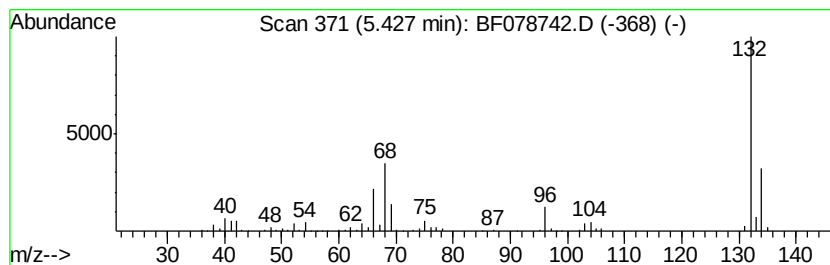
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TIC Library : C:\DATABASE\NIST02.L
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Peak Number 4 unknown5.43 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.43	122.59 ng	815149	1,4-Dichlorobenzene-d4	5.78

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	35
2		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	17
3		1-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-59-9	9
4		2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9
5		5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9



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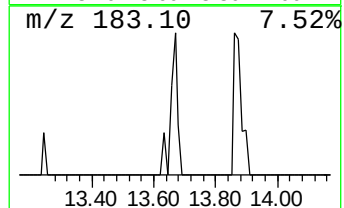
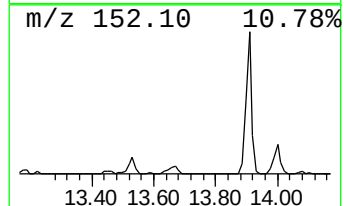
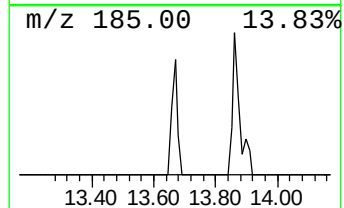
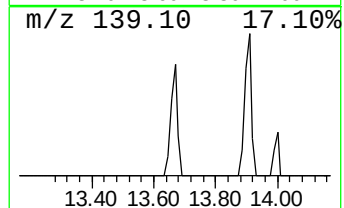
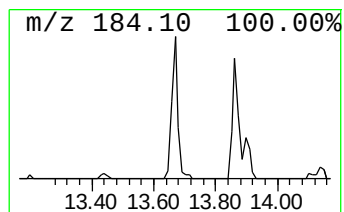
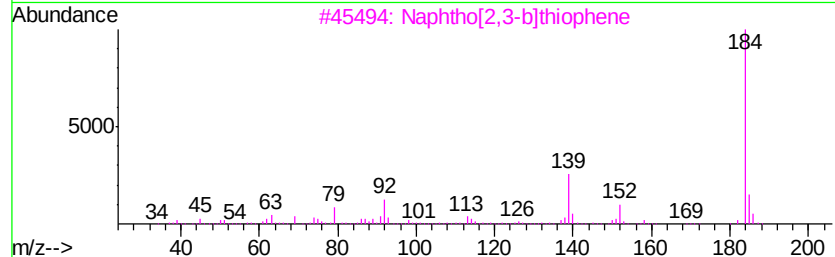
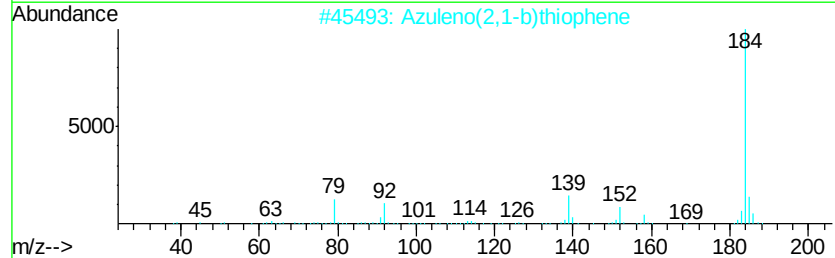
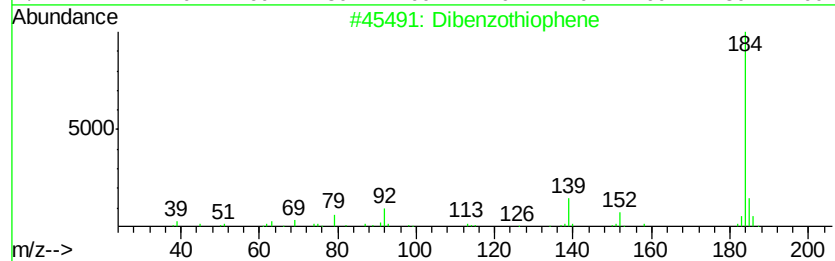
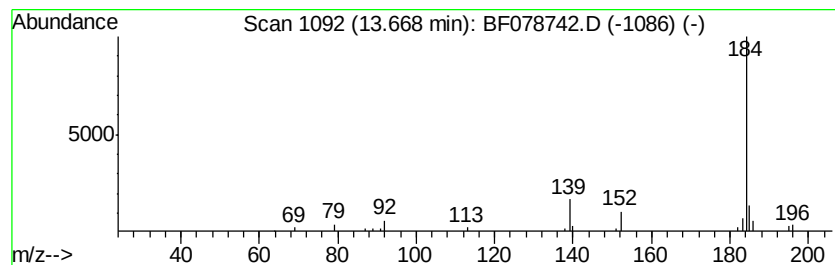
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TIC Integration Parameters: LSCINT.P

Peak Number 6 Dibenzothiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.67	3.99 ng	58633	Phenanthrene-d10	13.86

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzothiophene	184	C12H8S	000132-65-0	93
2		Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90
3		Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	90
4		Naphthalene, 2-ethenyl-6-methoxy-	184	C13H12O	063444-51-9	64
5		Benzidine	184	C12H12N2	000092-87-5	53



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Operator : TP/IZ
Sample : G1938-16
Misc :
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Instrument :
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ClientSampleId :
SB-79D

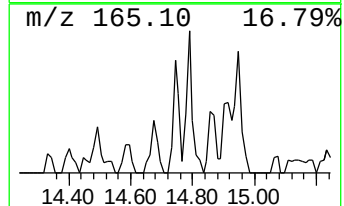
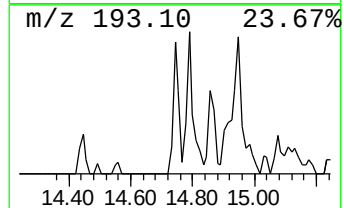
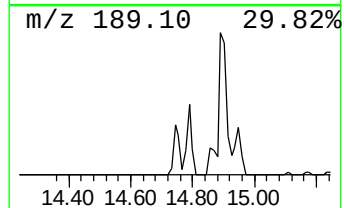
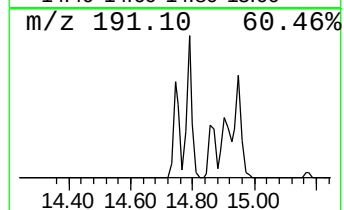
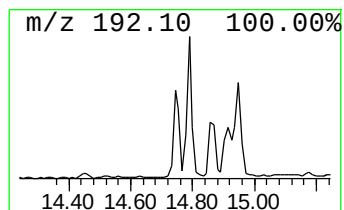
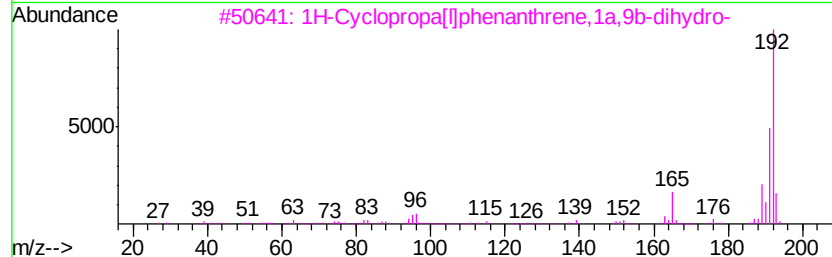
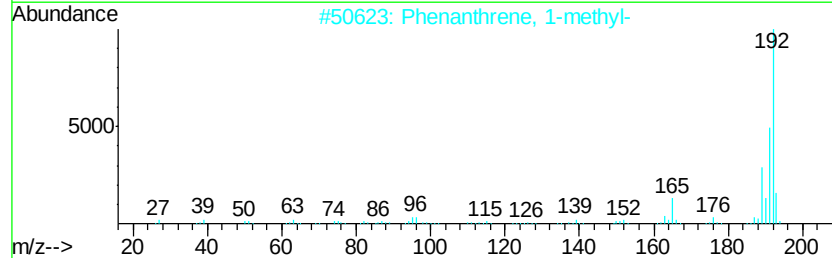
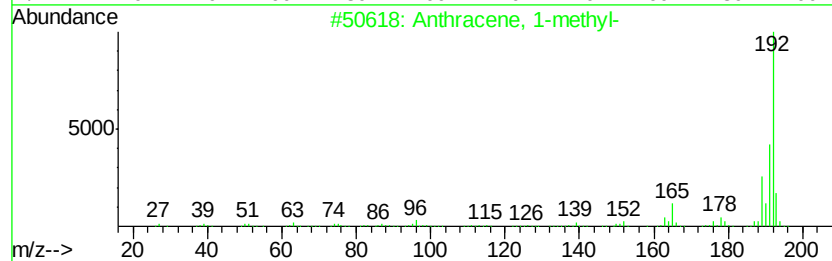
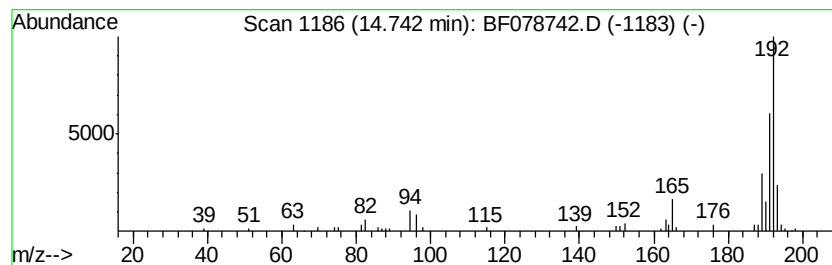
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 Anthracene, 1-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.74	5.87 ng	86203	Phenanthrene-d10	13.86

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
2		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3		1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
5		Anthracene, 2-methyl-	192	C15H12	000613-12-7	91



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF042215\
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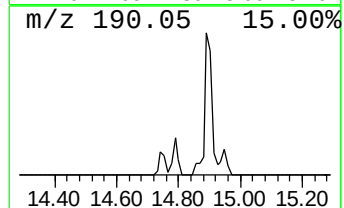
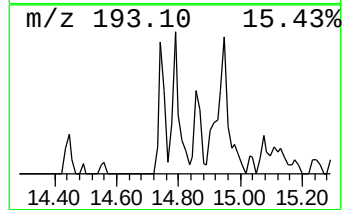
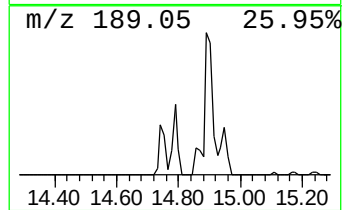
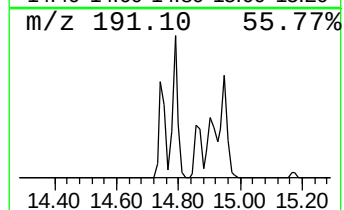
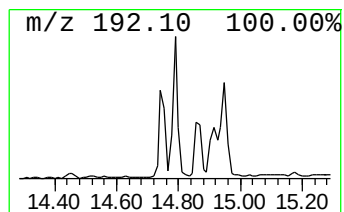
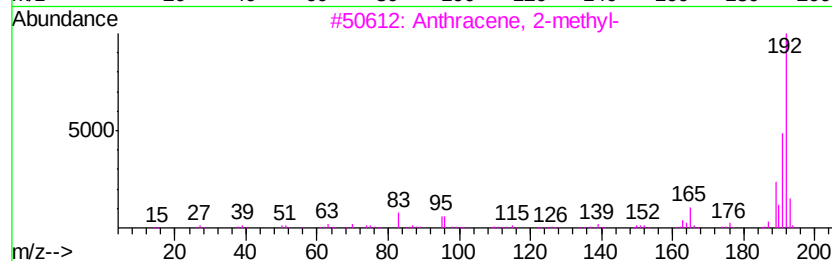
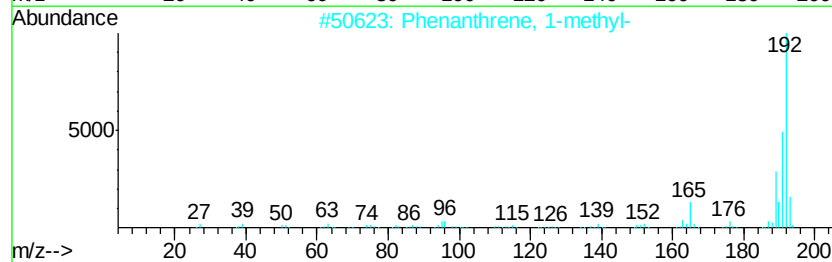
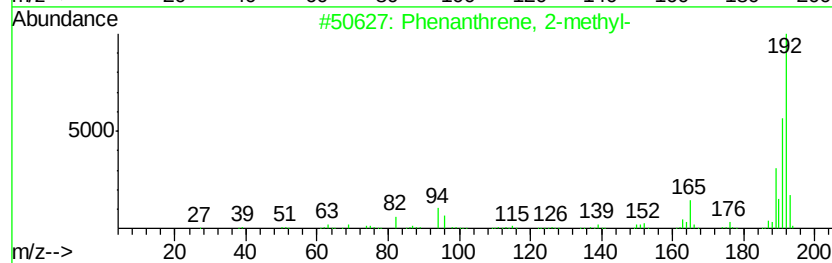
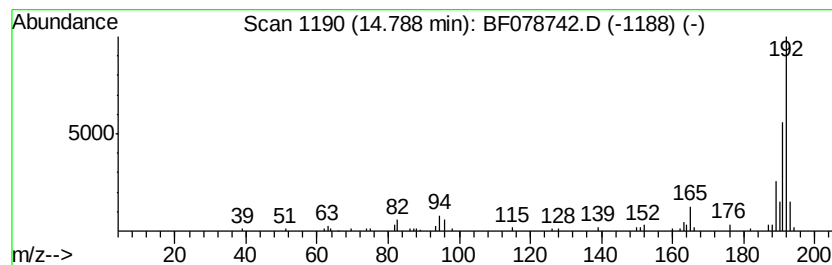
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.79	7.51 ng	110223	Phenanthrene-d10	13.86

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	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Cyclopropa[1,1]phenanthrene, 1a,...	192	C15H12	000949-41-7	96
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF042215\
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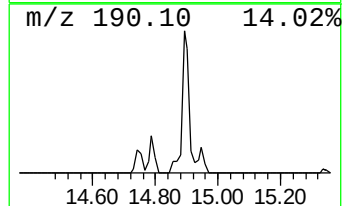
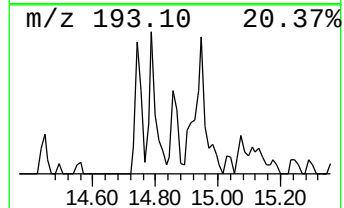
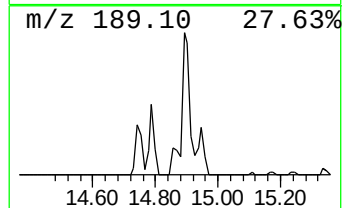
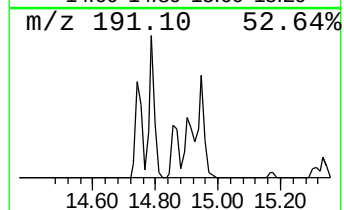
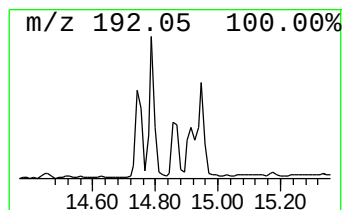
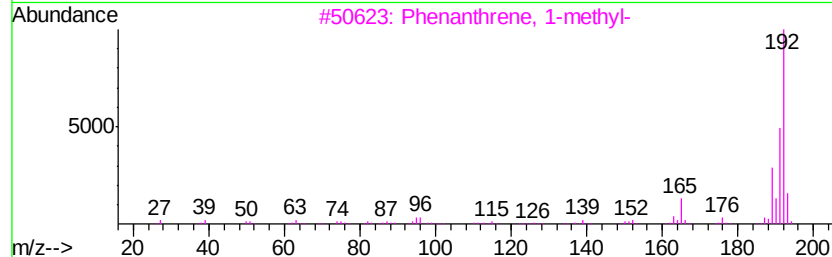
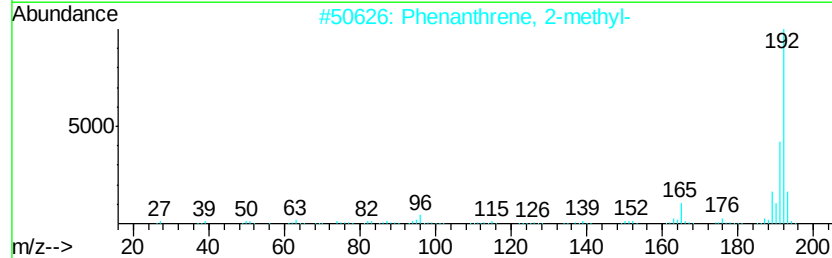
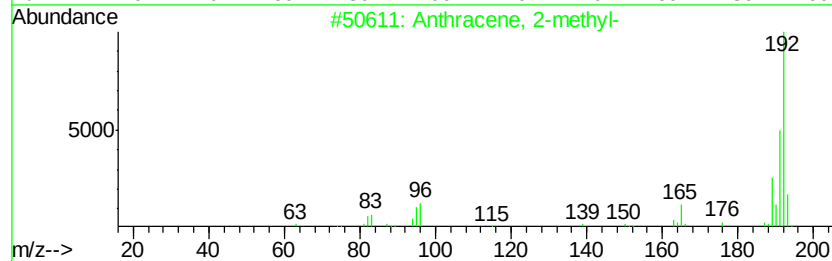
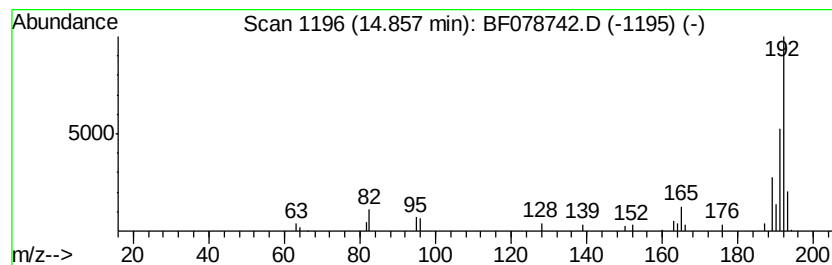
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 Anthracene, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.86	3.46 ng	50871	Phenanthrene-d10	13.86

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
5	1H-Cyclopropa[l]phenanthrene, 1a, ...	192	C15H12	000949-41-7	91



Data Path : Z:\HPCHEM1\BNA F\DATA\BF042215\
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Sample : G1938-16
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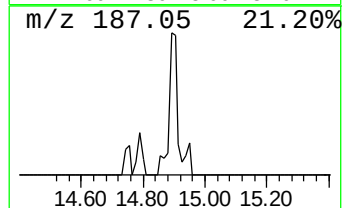
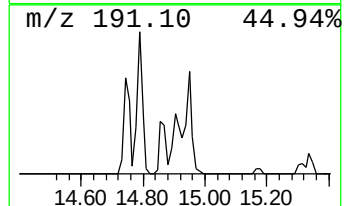
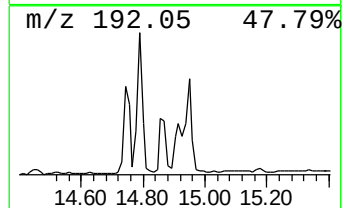
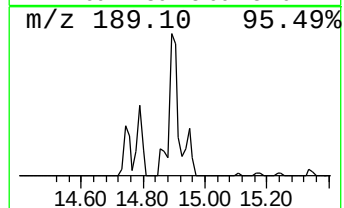
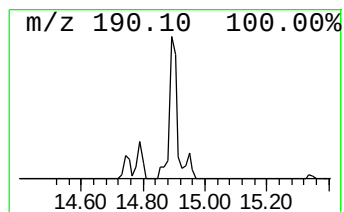
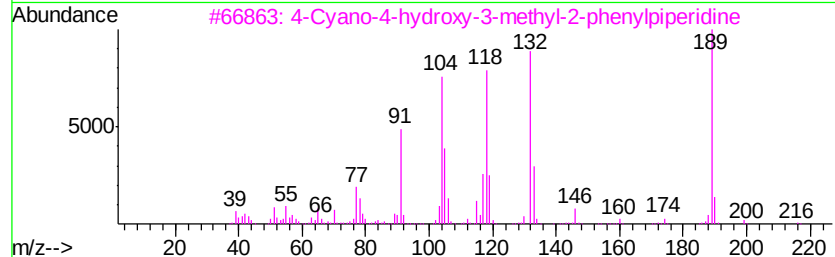
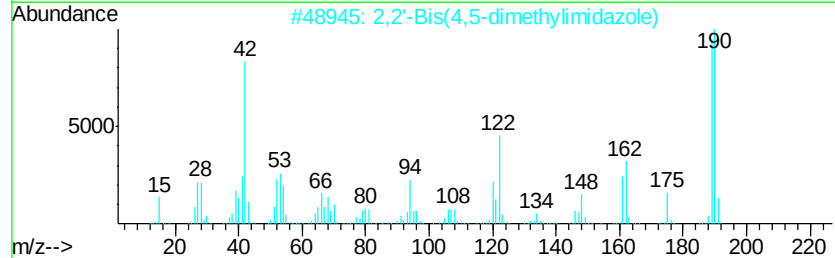
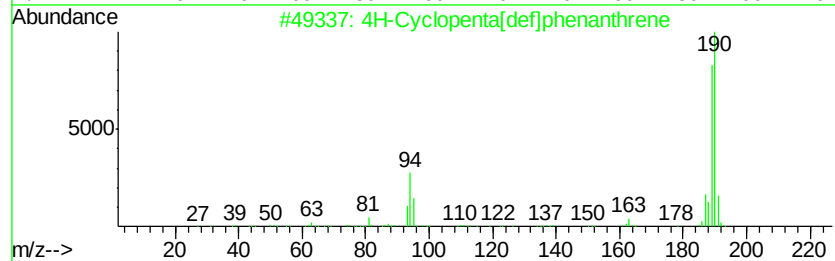
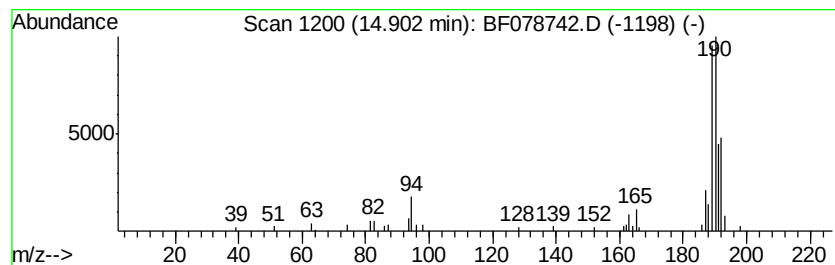
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.	
14.90	8.62 ng	126509	Phenanthrene-d10	13.86	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	52
2	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	28
3	4-Cvano-4-hvdroxv-3-methyl-2-phe...	216	C13H16N2O	1000216-11-7	14
4	Methyl diselenide	190	C2H6Se2	007101-31-7	10
5	2-Fluoro-4-(trifluoromethyl)benz...	189	C8H3F4N	146070-34-0	9



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF042215\
Data File : BF078742.D
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Misc :
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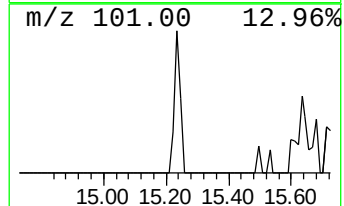
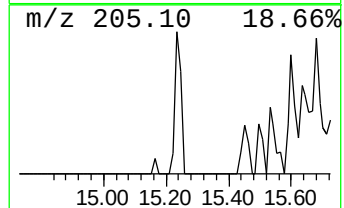
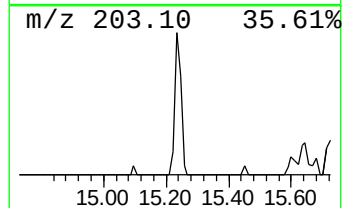
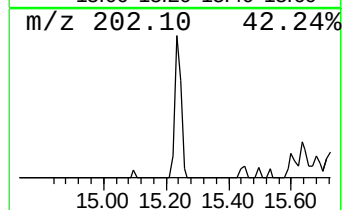
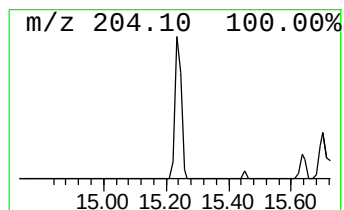
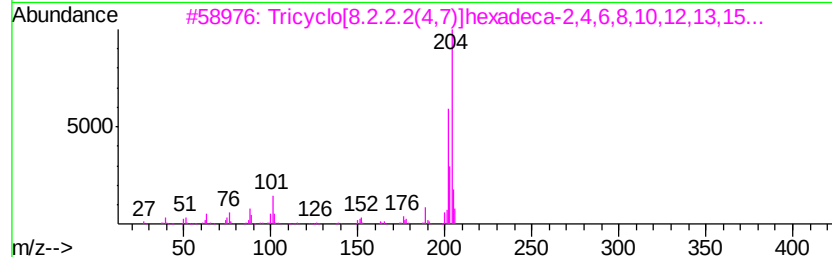
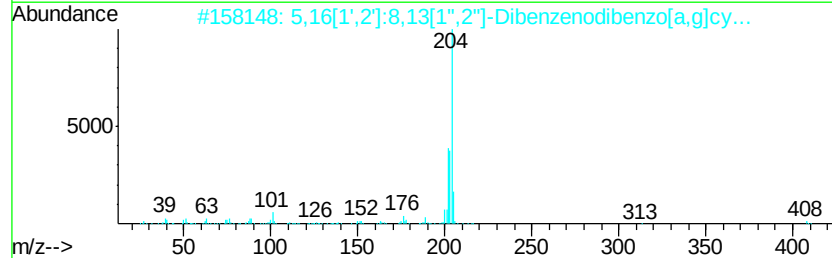
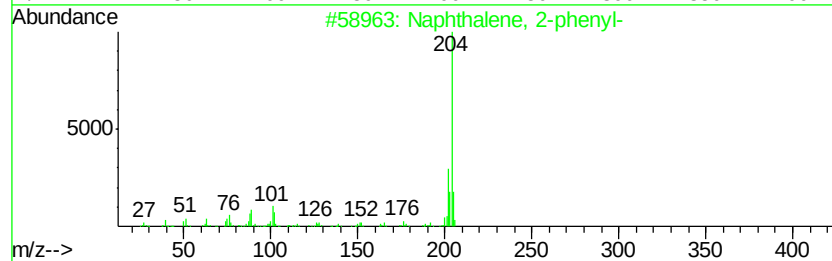
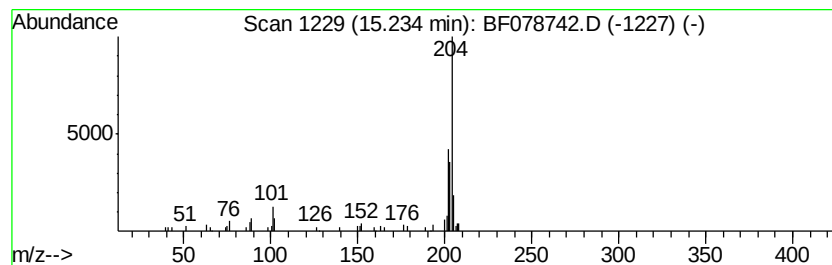
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 12 Naphthalene, 2-phenyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.23	6.55 ng	96185	Phenanthrene-d10	13.86

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	83
2		5,16[1',2']: ^{8,13} [1'',2'']-Dibenz...	408	C32H24	005672-97-9	78
3		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	70
4		2-Phenyl-naphthalene	204	C16H12	035465-71-5	70
5		9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	58



Data Path : Z:\HPCHEM1\BNA F\DATA\BF042215\
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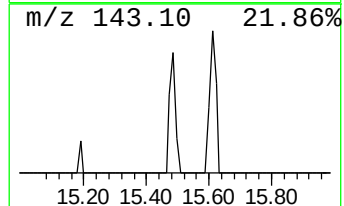
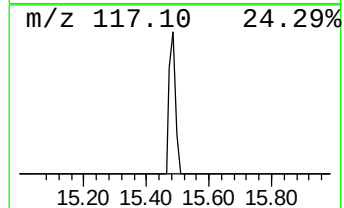
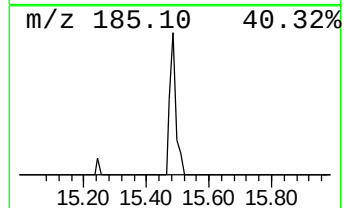
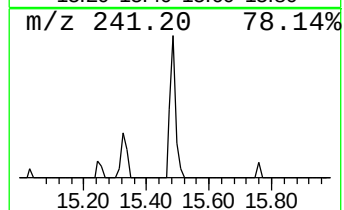
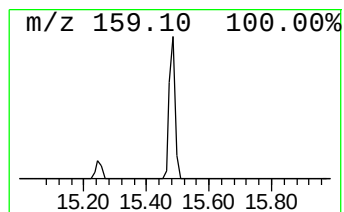
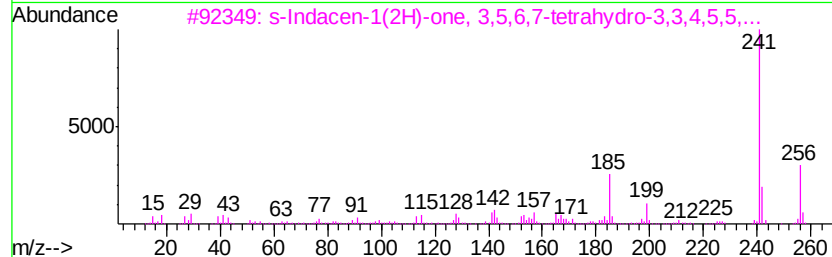
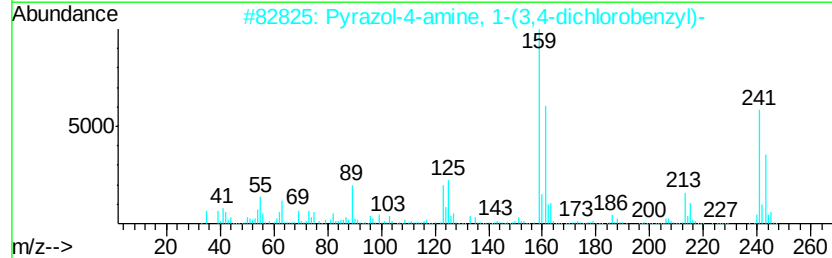
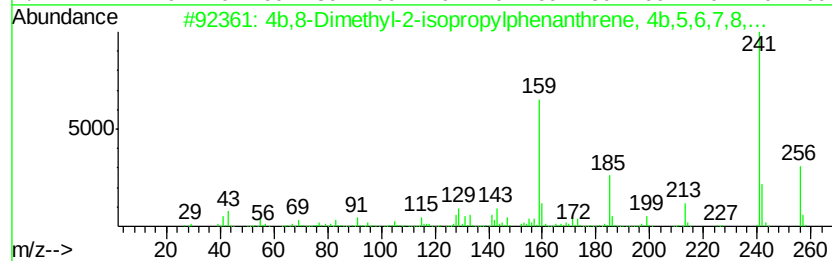
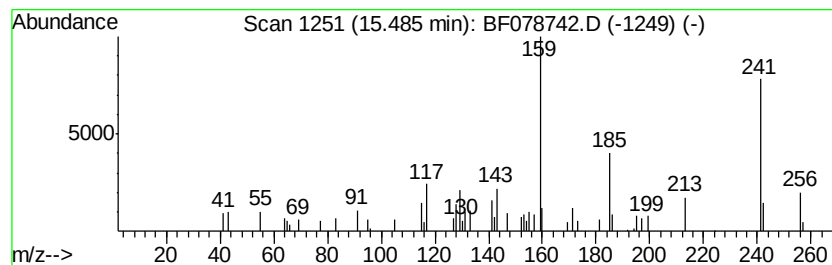
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 13 4b,8-Dimethyl-2-isopropylph... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.	
15.49	3.97 ng	58318	Phenanthrene-d10	13.86	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4b,8-Dimethyl-2-isopropylphenant...	256	C19H28	1000197-14-1	93
2	Pyrazol-4-amine, 1-(3,4-dichloro...	241	C10H9Cl2N3	1000273-77-4	47
3	s-Indacen-1(2H)-one, 3,5,6,7-tet...	256	C18H24O	038754-94-8	43
4	3,4-Dihydro-3,3-dimethyl-1,9(2H,...	241	C15H15N02	1000212-95-2	38
5	As-Indacene, 1,2,3,6,7,8-hexahyd...	256	C19H28	017465-47-3	30



Data Path : Z:\HPCHEM1\BNA F\DATA\BF042215\
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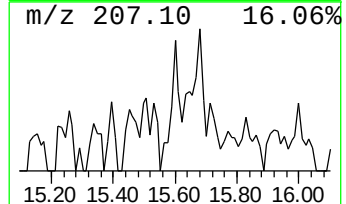
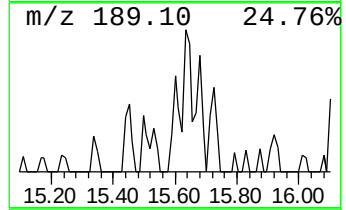
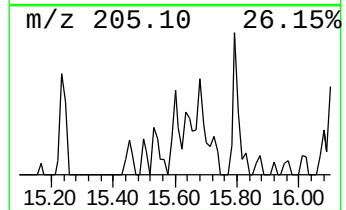
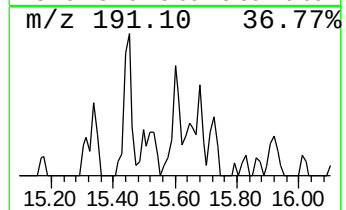
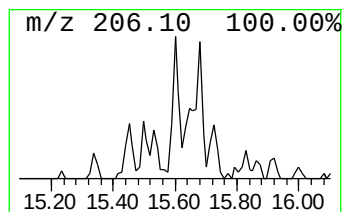
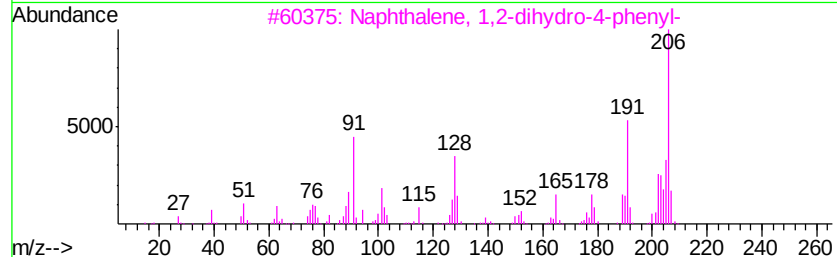
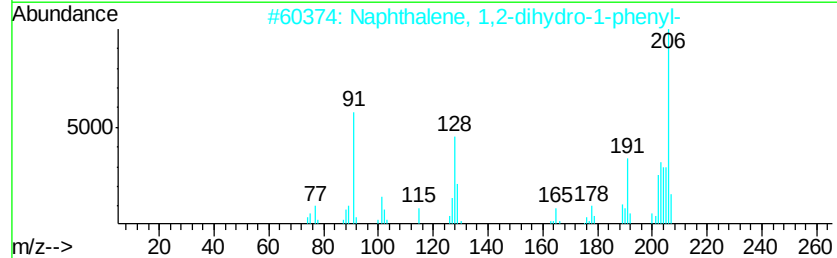
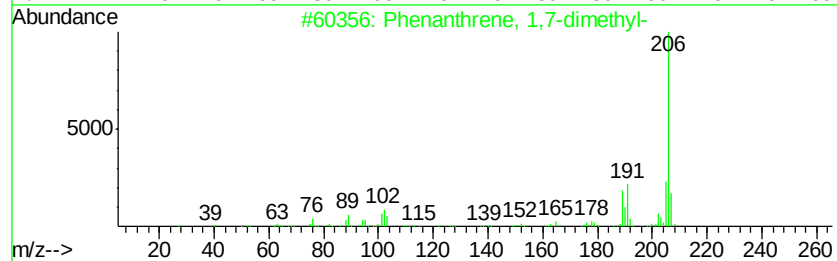
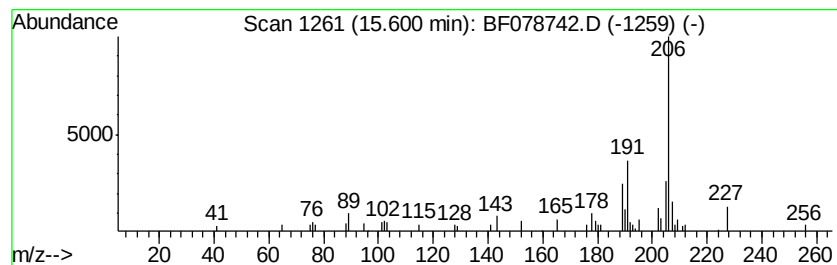
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 14 Phenanthrene, 1,7-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.	
15.60	5.42 ng	79594	Phenanthrene-d10	13.86	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	91
2	Naphthalene, 1,2-dihydro-1-phenyl-	206	C16H14	016606-46-5	89
3	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	89
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	86
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	83



Data Path : Z:\HPCHEM1\BNA F\DATA\BF042215\
Data File : BF078742.D
Acq On : 23 Apr 2015 7:10
Operator : TP/IZ
Sample : G1938-16
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-79D

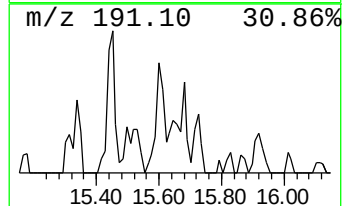
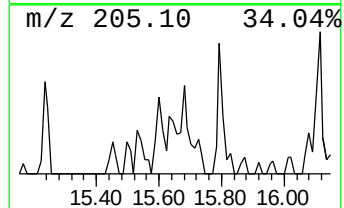
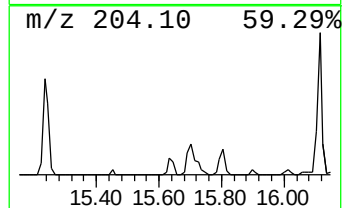
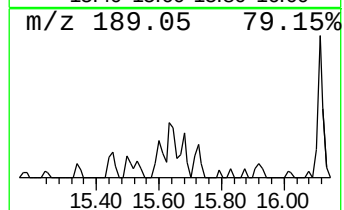
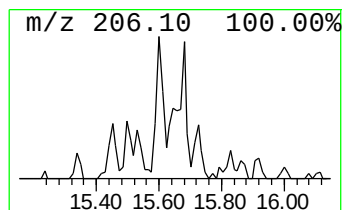
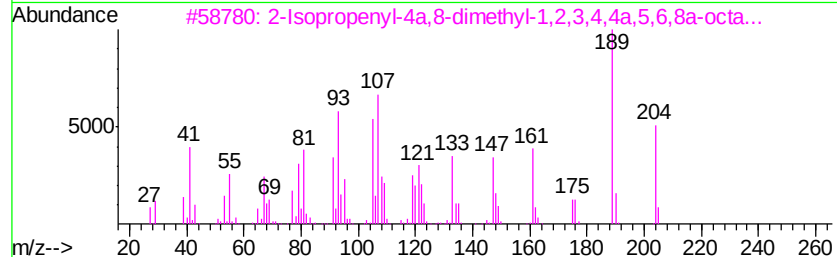
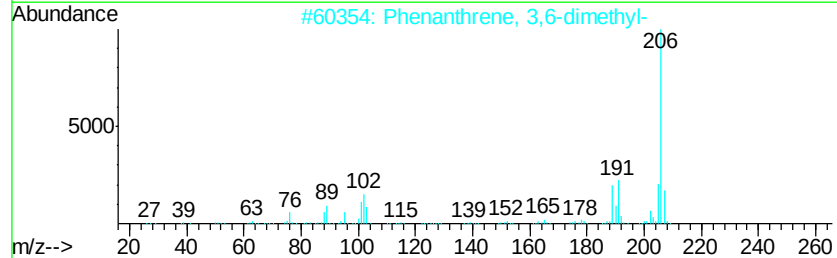
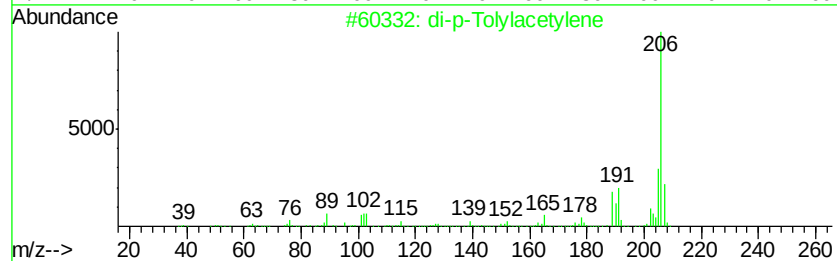
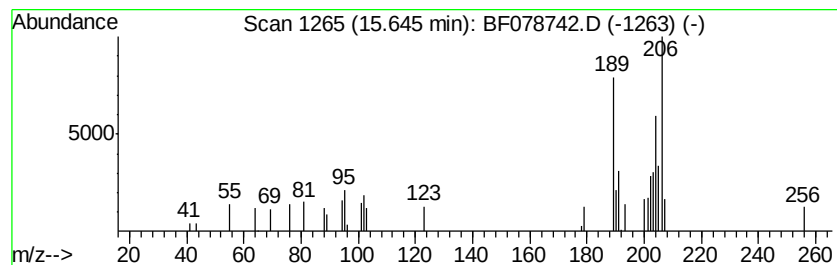
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 15 unknown15.65 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.65	3.48 ng	51114	Phenanthrene-d10	13.86

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			di-p-Tolylacetylene	206	C16H14	002789-88-0	43
2			Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	41
3			2-Isopropenyl-4a,8-dimethyl-1,2,...	204	C15H24	1000193-57-0	35
4			Naphthalene, decahydro-4a-methyl...	204	C15H24	000515-17-3	35
5			Naphthalene, 1,2-dihydro-1-phenyl-	206	C16H14	016606-46-5	30



Data Path : Z:\HPCHEM1\BNA F\DATA\BF042215\
Data File : BF078742.D
Acq On : 23 Apr 2015 7:10
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Sample : G1938-16
Misc :
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Instrument :
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ClientSampleId :
SB-79D

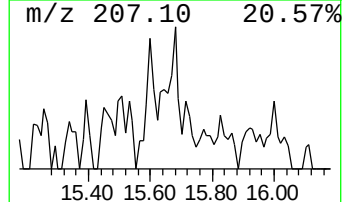
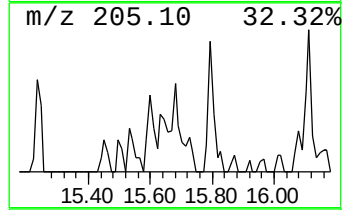
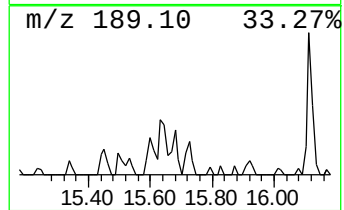
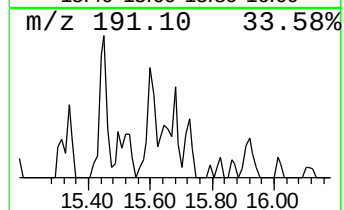
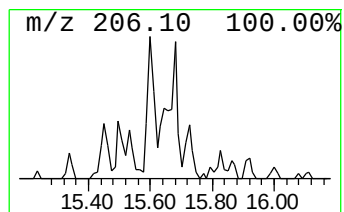
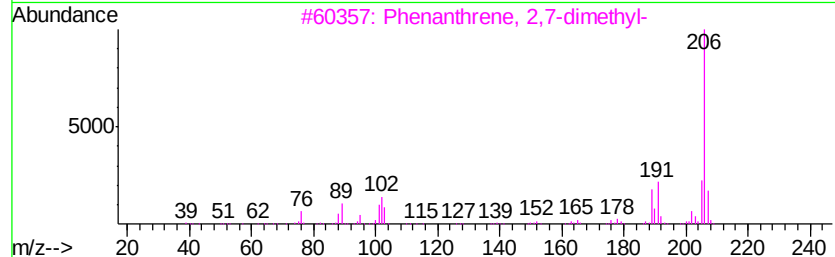
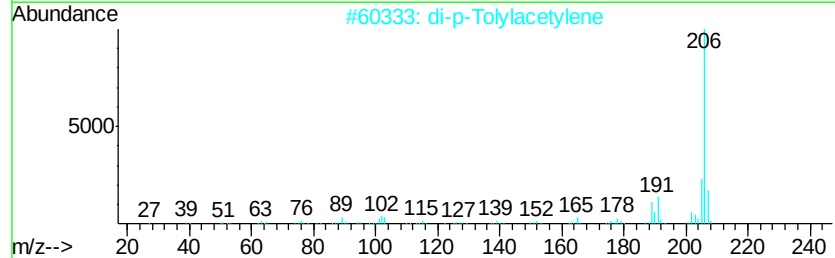
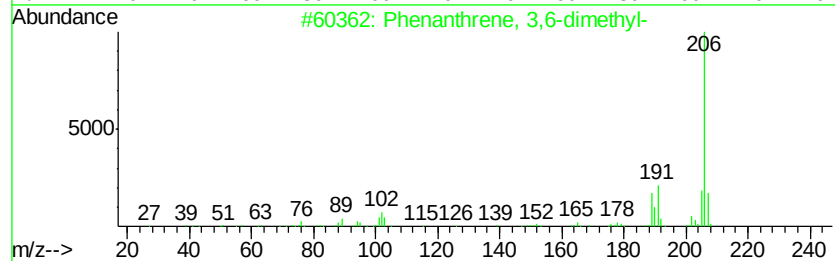
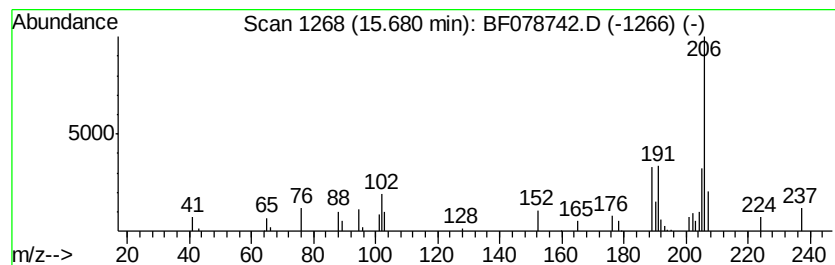
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 16 Phenanthrene, 3,6-dimethyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.68	4.26 ng	62517	Phenanthrene-d10	13.86

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
2		di-p-Tolylacetylene	206	C16H14	002789-88-0	90
3		Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	87
4		Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	87
5		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	83



Data Path : Z:\HPCHEM1\BNA F\DATA\BF042215\
Data File : BF078742.D
Acq On : 23 Apr 2015 7:10
Operator : TP/IZ
Sample : G1938-16
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-79D

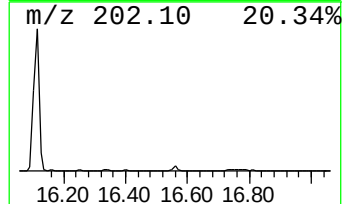
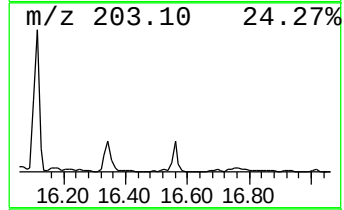
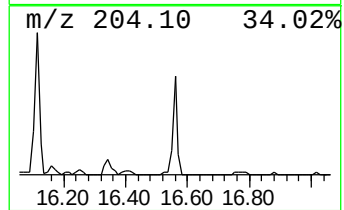
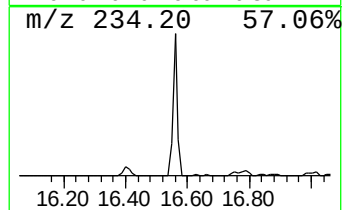
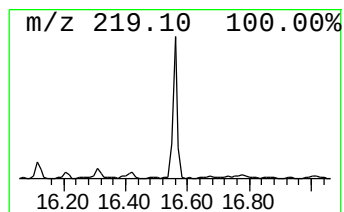
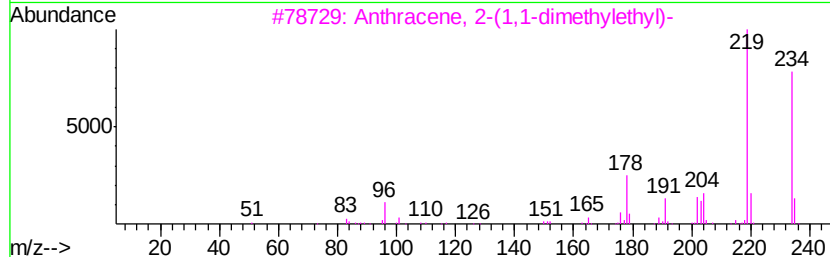
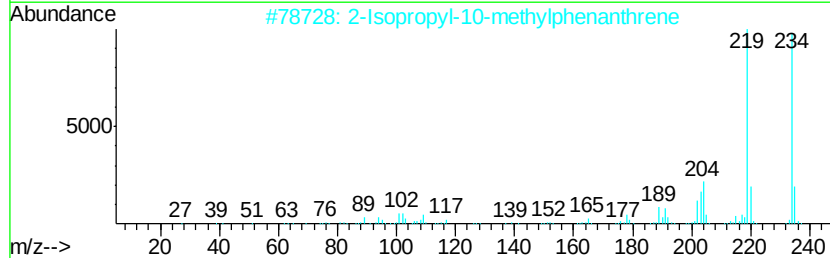
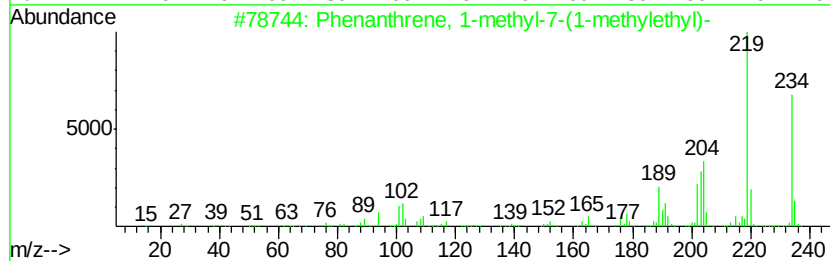
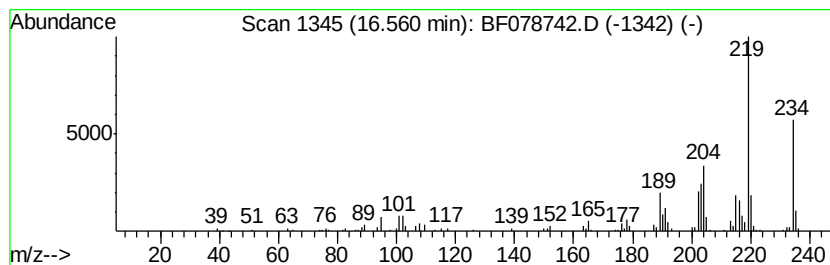
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 17 Phenanthrene, 1-methyl-7-(1... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.56	6.65 ng	273496	Chrysene-d12	17.74

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 1-methyl-7-(1-meth...	234	C18H18	000483-65-8	99
2			2-Isopropyl-10-methylphenanthrene	234	C18H18	066552-97-4	93
3			Anthracene, 2-(1,1-dimethylethyl)-	234	C18H18	018801-00-8	53
4			Ethanone, 1-(4,6-dihydroxy-2,3,5...	234	C13H14O4	021987-07-5	49
5			Phenol, 2,6-bis(1,1-dimethylethy...	234	C16H26O	004130-42-1	49



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF042215\
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Acq On : 23 Apr 2015 7:10
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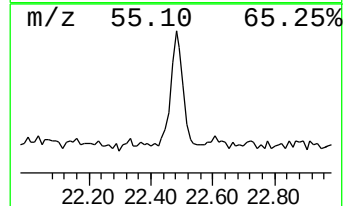
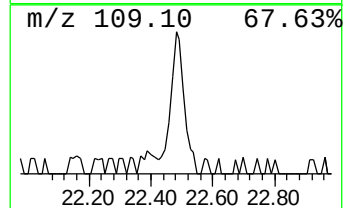
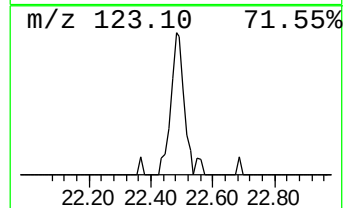
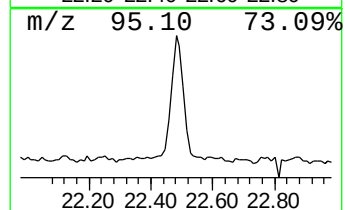
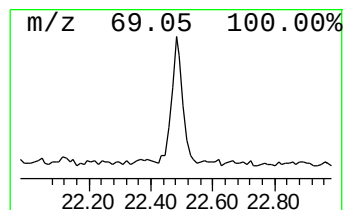
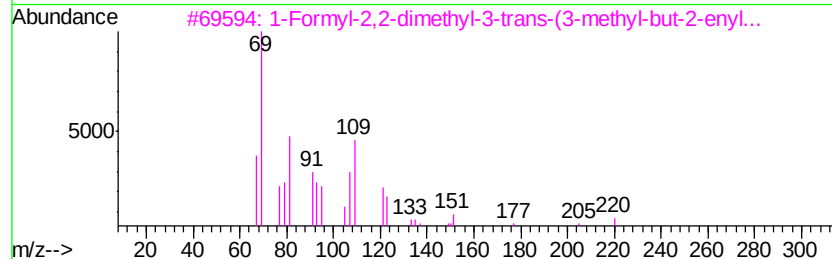
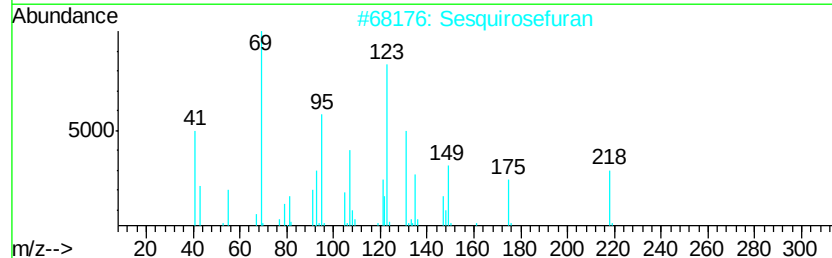
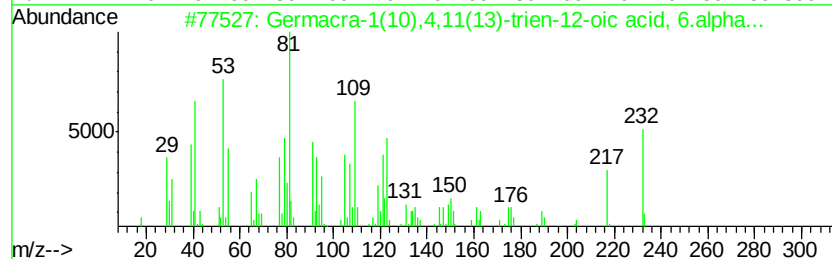
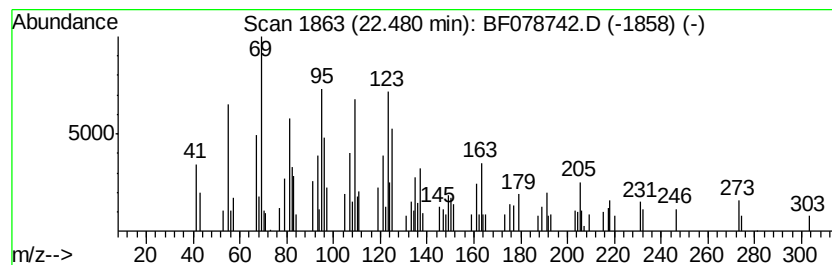
Instrument :
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 20 Germacra-1(10),4,11(13)-tri... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.	
22.48	9.22 ng	181466	Perylene-d12	19.46	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Germacra-1(10),4,11(13)-trien-12...	232	C15H20O2	000553-21-9	80
2	Sesquirosefuran	218	C15H22O	039007-93-7	55
3	1-Formyl-2,2-dimethyl-3-trans-(3...	220	C15H24O	1000144-09-7	46
4	Cyclohexanone, 2,3,3-trimethyl-2...	206	C14H22O	069296-90-8	42
5	(7,7-Dimethyl-2-oxobicyclo[2.2.1...	246	C11H18O4S	1000197-55-6	38



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF042215\
 Data File : BF078742.D
 Acq On : 23 Apr 2015 7:10
 Operator : TP/IZ
 Sample : G1938-16
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
 TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-hy...	3.29	16.5	ng	109516	1	5.78	132987	20.0
unknown5.43	5.43	122.6	ng	815149	1	5.78	132987	20.0
Dibenzothiophene	13.67	4.0	ng	58633	4	13.86	293678	20.0
Anthracene, 1-met...	14.74	5.9	ng	86203	4	13.86	293678	20.0
Phenanthrene, 2-m...	14.79	7.5	ng	110223	4	13.86	293678	20.0
Anthracene, 2-met...	14.86	3.5	ng	50871	4	13.86	293678	20.0
4H-Cyclopenta[def...	14.90	8.6	ng	126509	4	13.86	293678	20.0
Naphthalene, 2-ph...	15.23	6.5	ng	96185	4	13.86	293678	20.0
4b,8-Dimethyl-2-i...	15.49	4.0	ng	58318	4	13.86	293678	20.0
Phenanthrene, 1,7...	15.60	5.4	ng	79594	4	13.86	293678	20.0
unknown15.65	15.65	3.5	ng	51114	4	13.86	293678	20.0
Phenanthrene, 3,6...	15.68	4.3	ng	62517	4	13.86	293678	20.0
Phenanthrene, 1-m...	16.56	6.7	ng	273496	5	17.74	822933	20.0
Geracra-1(10),4,...	22.48	9.2	ng	181466	6	19.46	393825	20.0