

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050815\
 Data File : BF079101.D
 Acq On : 10 May 2015 1:10
 Operator : TP/IZ
 Sample : G2155-01 5X
 Misc :
 ALS Vial : 60 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-45AS

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-BF043015.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	1.472	23	25	28	rVB	1972001	1993393	54.40%	5.020%
2	1.621	35	38	48	rVB	166414	284240	7.76%	0.716%
3	1.747	48	49	51	rVV	46615	73146	2.00%	0.184%
4	1.793	51	53	58	rVV	77166	118063	3.22%	0.297%
5	1.873	58	60	91	rVB	1965186	3664217	100.00%	9.227%
6	5.621	385	388	390	rBV	318839	348382	9.51%	0.877%
7	6.879	495	498	500	rBV	319260	368628	10.06%	0.928%
8	7.027	509	511	514	rVB	439212	395759	10.80%	0.997%
9	7.313	534	536	539	rBV	384340	533845	14.57%	1.344%
10	7.507	550	553	555	rVB	304323	302156	8.25%	0.761%
11	8.010	594	597	599	rBV	228556	224890	6.14%	0.566%
12	8.890	672	674	676	rBV	616988	733096	20.01%	1.846%
13	10.239	789	792	794	rBV	552647	472830	12.90%	1.191%
14	10.651	826	828	830	rBV	132182	144388	3.94%	0.364%
15	10.799	839	841	844	rVB	68529	92458	2.52%	0.233%
16	10.902	846	850	852	rBV	64975	92195	2.52%	0.232%
17	11.073	862	865	867	rBV	802541	831528	22.69%	2.094%
18	11.108	867	868	871	rVV	184776	170977	4.67%	0.431%
19	11.325	884	887	890	rBV	101630	127570	3.48%	0.321%
20	11.474	897	900	902	rBV	68891	85073	2.32%	0.214%
21	11.588	907	910	913	rBV	49368	107648	2.94%	0.271%
22	11.748	922	924	926	rVB	159339	167300	4.57%	0.421%
23	11.839	929	932	933	rVV2	56926	128381	3.50%	0.323%
24	11.919	935	939	940	rVV4	39201	80427	2.19%	0.203%
25	11.954	940	942	945	rVB2	74407	105769	2.89%	0.266%
26	12.045	948	950	954	rVB2	246957	335595	9.16%	0.845%
27	12.434	981	984	986	rBV3	82236	148476	4.05%	0.374%
28	12.468	986	987	989	rVB2	89078	81223	2.22%	0.205%
29	12.628	995	1001	1004	rBV3	55105	116270	3.17%	0.293%
30	12.674	1004	1005	1008	rVB2	85590	90607	2.47%	0.228%
31	12.742	1008	1011	1013	rBV	61487	97223	2.65%	0.245%
32	12.788	1013	1015	1023	rVB2	129637	207483	5.66%	0.522%
33	12.914	1024	1026	1027	rBV	702559	792727	21.63%	1.996%
34	12.948	1027	1029	1031	rVB	1983859	1825157	49.81%	4.596%

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050815\
 Data File : BF079101.D
 Acq On : 10 May 2015 1:10
 Operator : TP/IZ
 Sample : G2155-01 5X
 Misc :
 ALS Vial : 60 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-45AS

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-BF043015.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	13.005	1031	1034	1036	rVB	313415	406647	11.10%	1.024%
36	13.062	1036	1039	1041	rBV	63019	73780	2.01%	0.186%
37	13.211	1051	1052	1054	rBV	65679	79519	2.17%	0.200%
38	13.337	1061	1063	1065	rVB	141045	177377	4.84%	0.447%
39	13.439	1067	1072	1074	rVB2	65373	122601	3.35%	0.309%
40	13.542	1079	1081	1083	rBV	447638	562471	15.35%	1.416%
41	13.577	1083	1084	1087	rVB	576013	639889	17.46%	1.611%
42	13.634	1087	1089	1091	rBV	187846	238701	6.51%	0.601%
43	13.679	1091	1093	1095	rBV	778603	982270	26.81%	2.473%
44	13.714	1095	1096	1098	rVB	430509	310563	8.48%	0.782%
45	13.794	1099	1103	1105	rBV3	45836	91544	2.50%	0.231%
46	13.839	1105	1107	1109	rVB	106553	120768	3.30%	0.304%
47	13.919	1109	1114	1115	rBV3	257592	381450	10.41%	0.961%
48	14.079	1126	1128	1129	rBV	57157	73757	2.01%	0.186%
49	14.102	1129	1130	1132	rVV	159797	174873	4.77%	0.440%
50	14.137	1132	1133	1135	rVV	108612	166031	4.53%	0.418%
51	14.171	1135	1136	1138	rVB	108664	82493	2.25%	0.208%
52	14.239	1139	1142	1143	rVV	347490	518941	14.16%	1.307%
53	14.274	1143	1145	1149	rVV	254905	487521	13.30%	1.228%
54	14.331	1149	1150	1154	rVV3	224095	364277	9.94%	0.917%
55	14.422	1156	1158	1160	rVV	1302146	1778681	48.54%	4.479%
56	14.502	1163	1165	1167	rBV3	113943	161750	4.41%	0.407%
57	14.605	1171	1174	1176	rBV3	134464	252295	6.89%	0.635%
58	14.708	1180	1183	1185	rVB	1990042	2224409	60.71%	5.601%
59	14.754	1185	1187	1190	rBV4	66511	183382	5.00%	0.462%
60	14.800	1190	1191	1193	rVB	121702	102460	2.80%	0.258%
61	14.868	1193	1197	1198	rBV	102029	150905	4.12%	0.380%
62	14.914	1198	1201	1204	rVB	503416	665698	18.17%	1.676%
63	14.982	1204	1207	1210	rBV3	205053	395434	10.79%	0.996%
64	15.120	1214	1219	1222	rVB2	254525	650591	17.76%	1.638%
65	15.177	1222	1224	1225	rBV2	53913	84460	2.30%	0.213%
66	15.211	1225	1227	1229	rVB	108452	100469	2.74%	0.253%
67	15.245	1229	1230	1233	rBV	276406	358932	9.80%	0.904%
68	15.360	1238	1240	1242	rVB	199499	245975	6.71%	0.619%
69	15.405	1242	1244	1246	rBV	231185	241657	6.60%	0.609%
70	15.508	1250	1253	1259	rBV4	42869	133068	3.63%	0.335%
71	15.600	1259	1261	1263	rBV3	51142	128259	3.50%	0.323%

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050815\
 Data File : BF079101.D
 Acq On : 10 May 2015 1:10
 Operator : TP/IZ
 Sample : G2155-01 5X
 Misc :
 ALS Vial : 60 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-45AS

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-BF043015.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	15.760	1271	1275	1277	rBV	159049	277112	7.56%	0.698%
73	15.885	1283	1286	1289	rBV2	181550	364744	9.95%	0.918%
74	15.931	1289	1290	1293	rVV2	170513	218727	5.97%	0.551%
75	15.977	1293	1294	1296	rVV2	55478	82042	2.24%	0.207%
76	16.011	1296	1297	1300	rVB	139332	202296	5.52%	0.509%
77	16.205	1310	1314	1316	rBV2	1163497	2202997	60.12%	5.547%
78	16.240	1316	1317	1322	rVB	959733	931547	25.42%	2.346%
79	16.331	1322	1325	1327	rBV3	95349	178449	4.87%	0.449%
80	16.617	1347	1350	1352	rBV3	58752	112452	3.07%	0.283%
81	16.651	1352	1353	1354	rBV	73136	70558	1.93%	0.178%
82	16.697	1354	1357	1359	rVV	263099	321058	8.76%	0.808%
83	16.743	1359	1361	1363	rVB	137235	149397	4.08%	0.376%
84	16.857	1369	1371	1374	rBV	90810	174566	4.76%	0.440%
85	17.074	1388	1390	1392	rBV	60977	91285	2.49%	0.230%
86	17.120	1392	1394	1398	rVV4	44768	95120	2.60%	0.240%
87	17.223	1401	1403	1405	rVB	64215	72162	1.97%	0.182%
88	17.268	1405	1407	1409	rBV2	61574	91057	2.49%	0.229%
89	17.371	1414	1416	1422	rVB4	52095	125911	3.44%	0.317%
90	17.474	1422	1425	1431	rBV	543067	1270704	34.68%	3.200%
91	17.588	1433	1435	1436	rVB	92214	115335	3.15%	0.290%
92	17.783	1450	1452	1455	rVB	375152	440109	12.01%	1.108%
93	17.840	1455	1457	1461	rVB	446106	649417	17.72%	1.635%
94	17.908	1461	1463	1465	rBV	627540	891292	24.32%	2.244%
95	18.228	1488	1491	1494	rVB3	49912	123043	3.36%	0.310%
96	19.223	1575	1578	1584	rVB2	60511	148199	4.04%	0.373%
97	19.383	1589	1592	1598	rVB2	186951	431332	11.77%	1.086%
98	19.577	1606	1609	1611	rBV	57407	119449	3.26%	0.301%
99	19.634	1611	1614	1616	rVV	38065	81992	2.24%	0.206%
100	19.829	1627	1631	1640	rVB	174355	424770	11.59%	1.070%

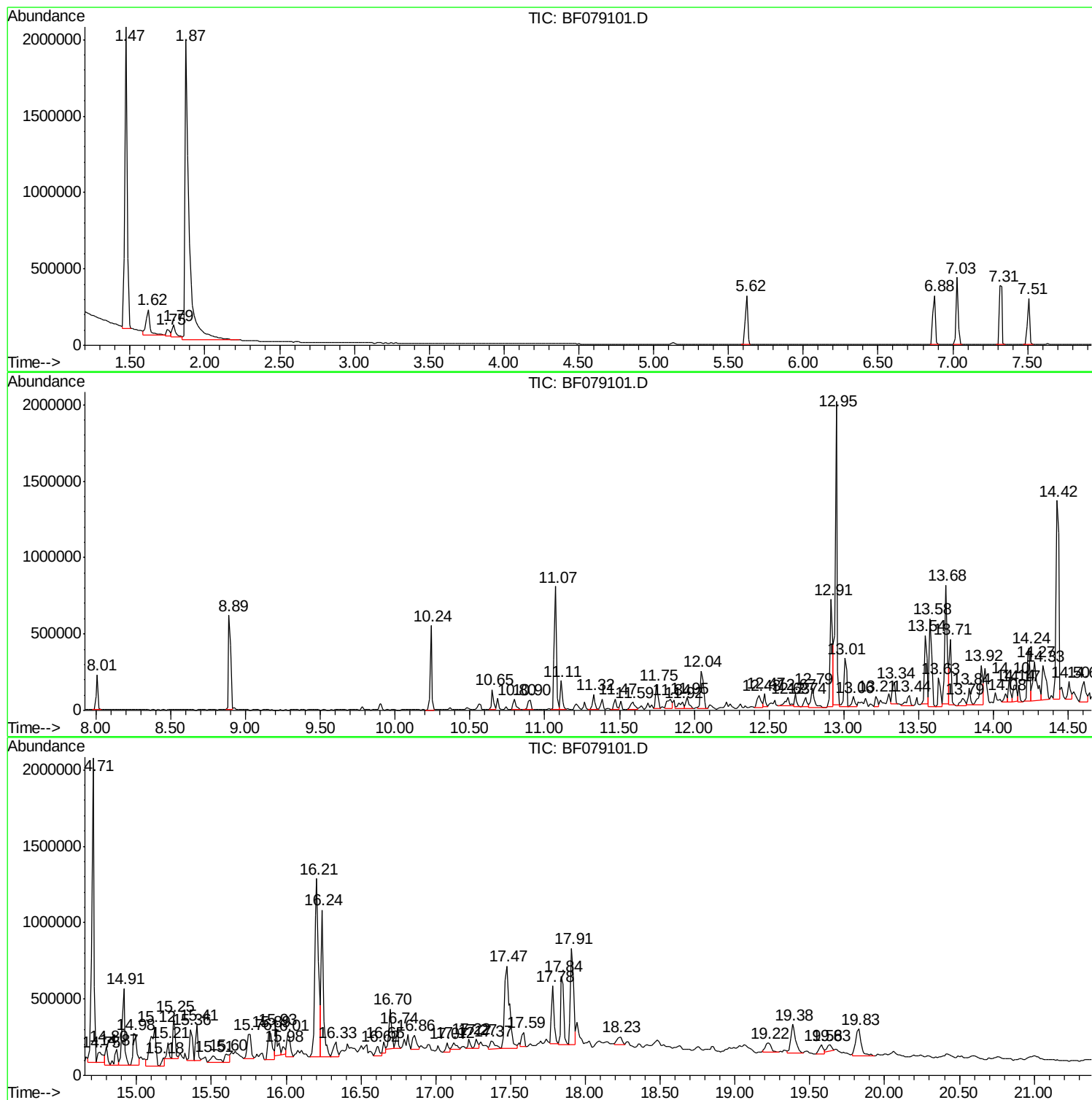
Sum of corrected areas: 39712140

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050815\
Data File : BF079101.D
Acq On : 10 May 2015 1:10
Operator : TP/IZ
Sample : G2155-01 5X
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-45AS

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050815\
Data File : BF079101.D
Acq On : 10 May 2015 1:10
Operator : TP/IZ
Sample : G2155-01 5X
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-45AS

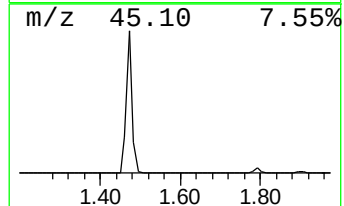
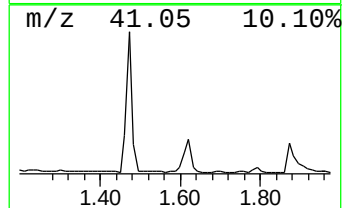
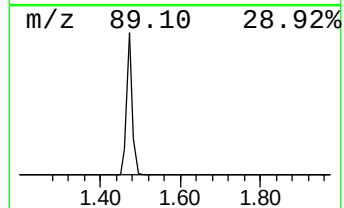
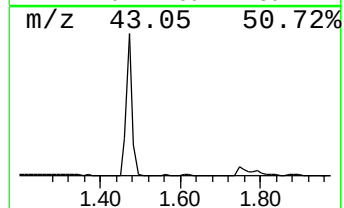
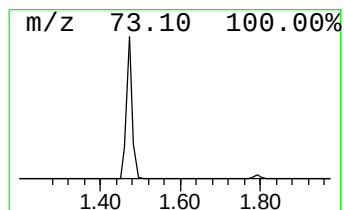
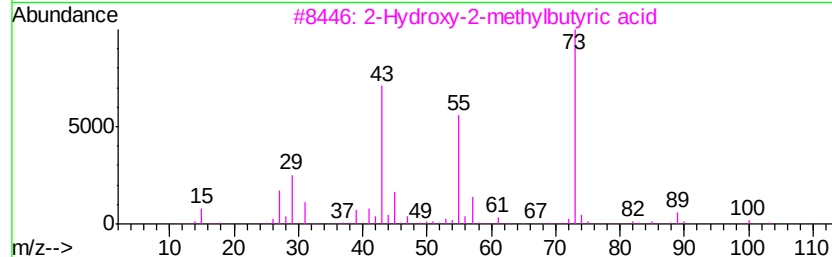
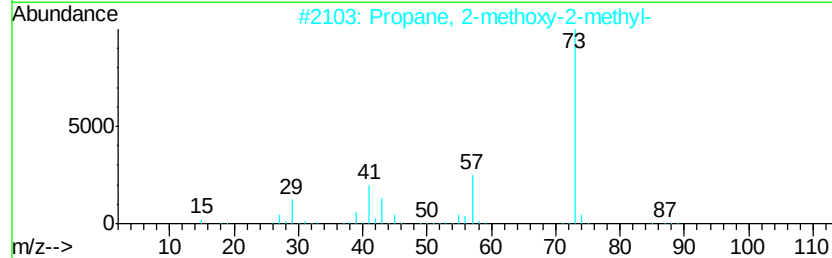
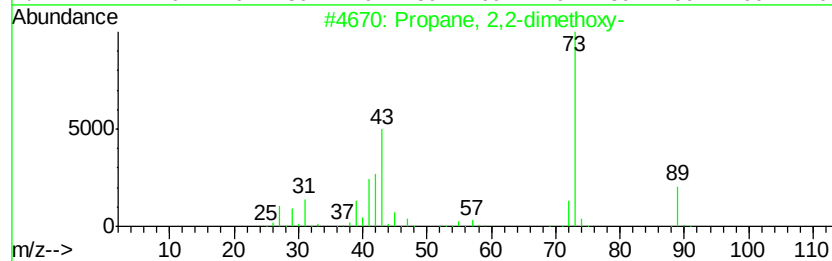
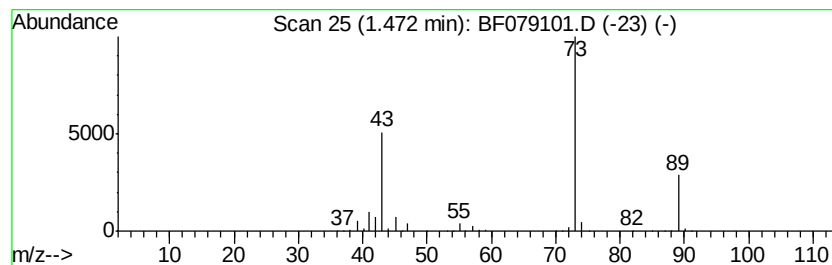
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 unknown1.47 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.47	74.68 ng	1993390	1,4-Dichlorobenzene-d4	7.32

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Propane, 2,2-dimethoxy-	104	C5H12O2	000077-76-9	38
2		Propane, 2-methoxy-2-methyl-	88	C5H12O	001634-04-4	9
3		2-Hydroxy-2-methylbutyric acid	118	C5H10O3	003739-30-8	9
4		Propanoic acid, 2-methyl-, propy...	130	C7H14O2	000644-49-5	9
5		1-Hexen-4-ol, 1-chloro-3,5-dimet...	162	C8H15ClO	100244-09-5	9



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050815\
Data File : BF079101.D
Acq On : 10 May 2015 1:10
Operator : TP/IZ
Sample : G2155-01 5X
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-45AS

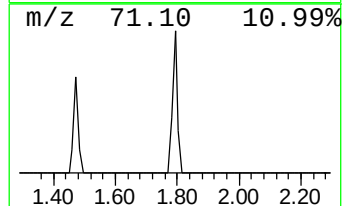
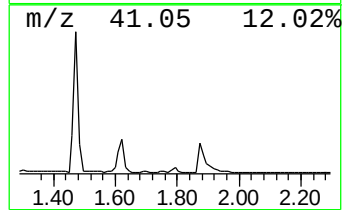
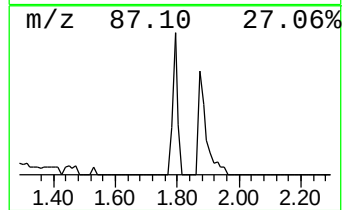
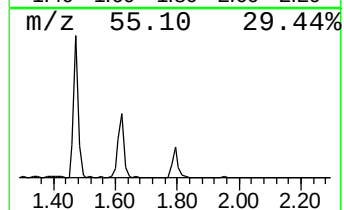
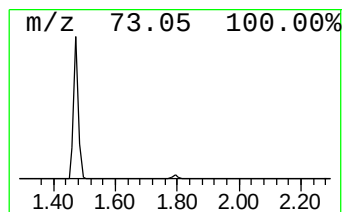
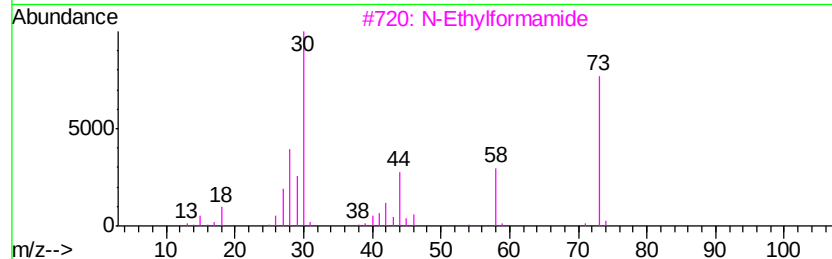
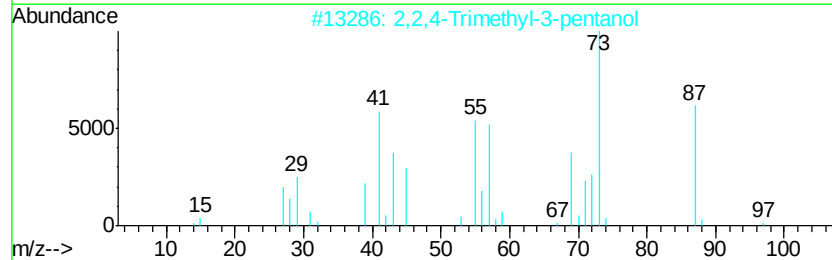
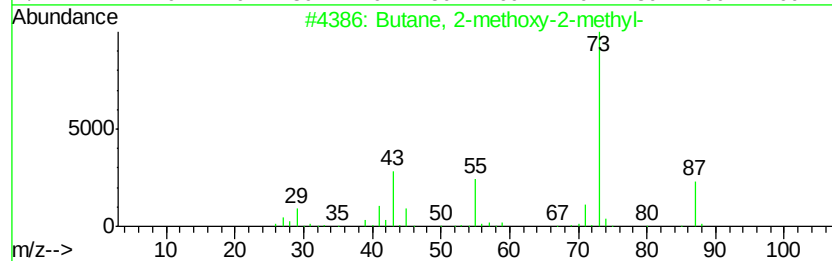
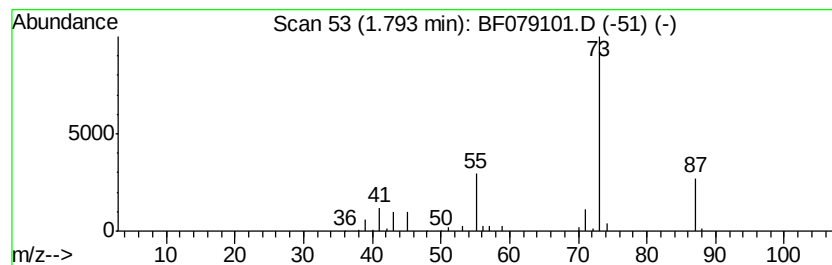
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 Butane, 2-methoxy-2-methyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.79	4.42 ng	118063	1,4-Dichlorobenzene-d4	7.32

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2		2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	43
3		N-Ethylformamide	73	C3H7NO	000627-45-2	23
4		Silane, tetramethyl-	88	C4H12Si	000075-76-3	10
5		Pentane, 3-methoxy-	102	C6H14O	036839-67-5	9



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050815\
Data File : BF079101.D
Acq On : 10 May 2015 1:10
Operator : TP/IZ
Sample : G2155-01 5X
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-45AS

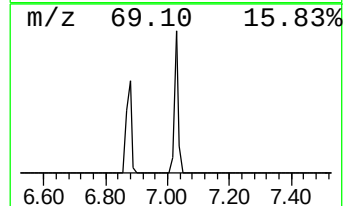
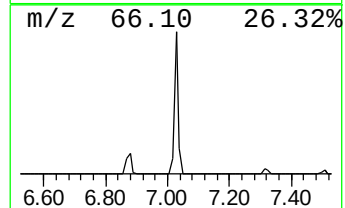
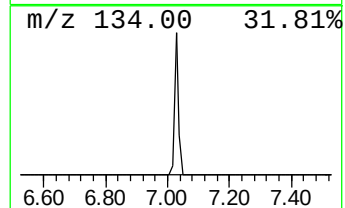
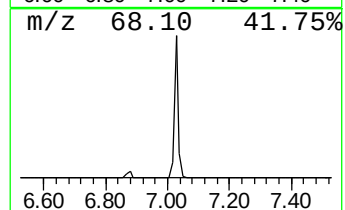
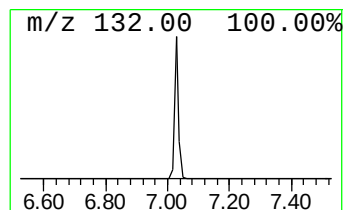
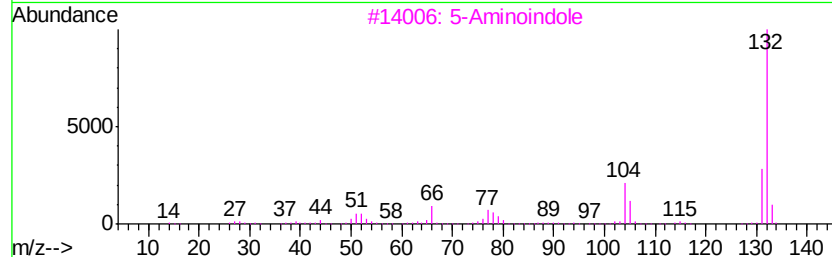
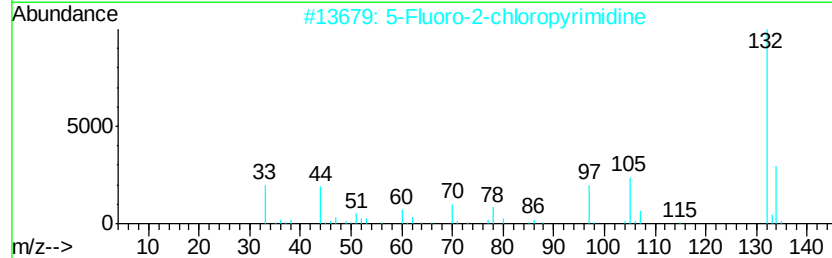
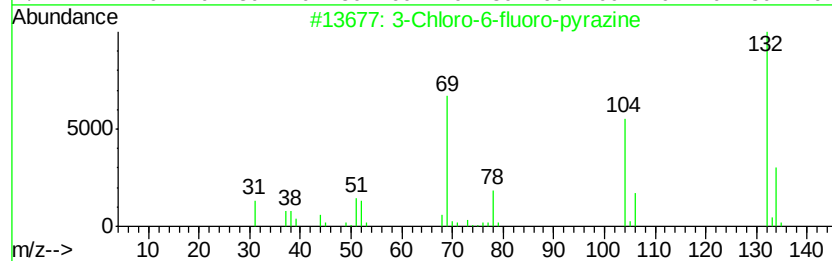
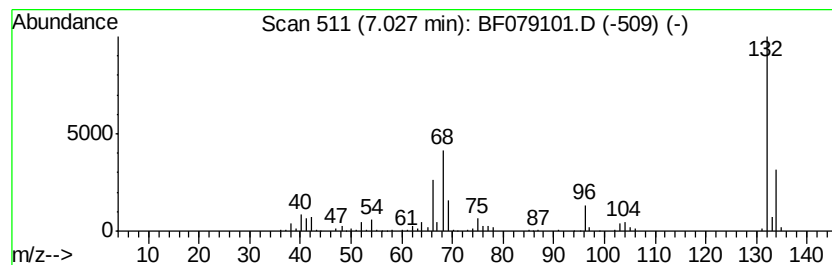
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 unknown7.03 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.03	14.83 ng	395759	1,4-Dichlorobenzene-d4	7.32

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2		5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	16
3		5-Aminoindole	132	C8H8N2	005192-03-0	10
4		4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9
5		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	9



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050815\
Data File : BF079101.D
Acq On : 10 May 2015 1:10
Operator : TP/IZ
Sample : G2155-01 5X
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-45AS

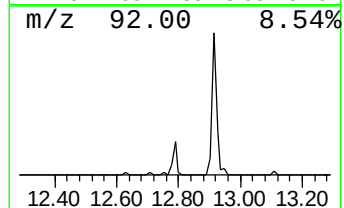
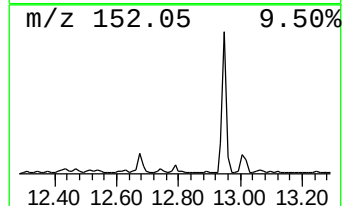
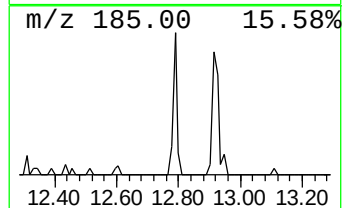
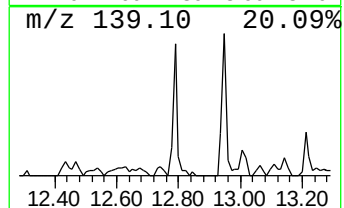
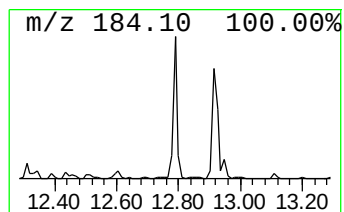
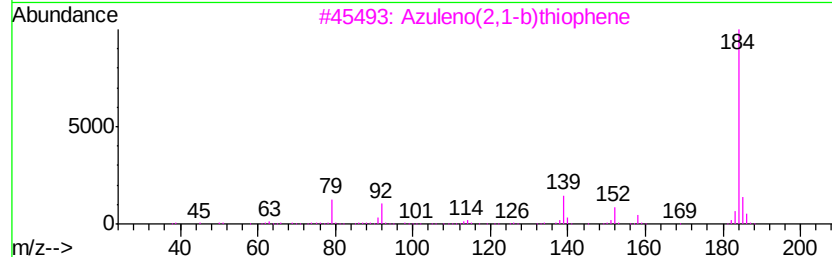
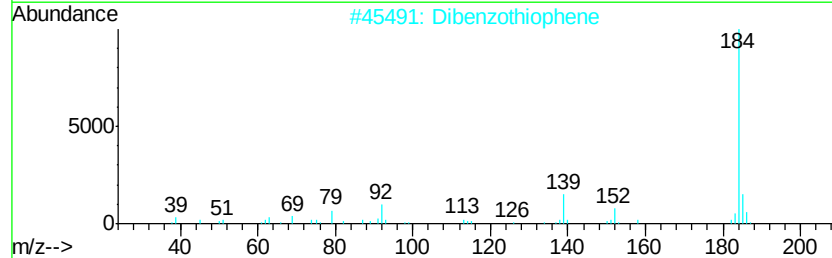
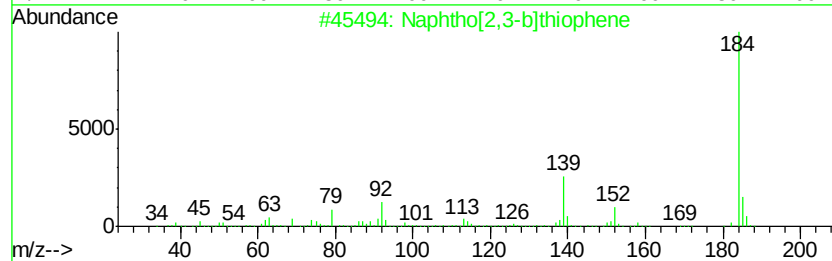
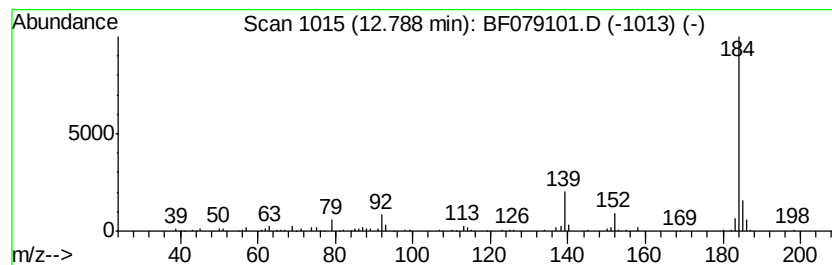
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Naphtho[2,3-b]thiophene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.79	5.23 ng	207483	Phenanthrene-d10	12.91

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	96
2		Dibenzothiophene	184	C12H8S	000132-65-0	95
3		Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91
4		Naphthalene, 2-ethenyl-6-methoxy-	184	C13H12O	063444-51-9	59
5		2,7-Diamino-quinoline-3-carbonit...	184	C10H8N4	1000187-24-4	53



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050815\
Data File : BF079101.D
Acq On : 10 May 2015 1:10
Operator : TP/IZ
Sample : G2155-01 5X
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-45AS

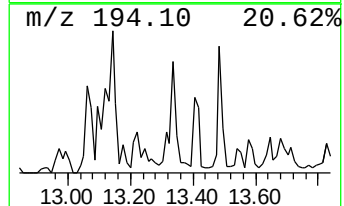
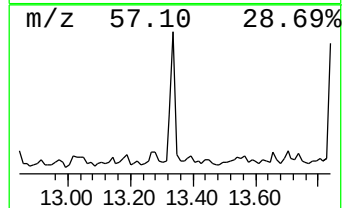
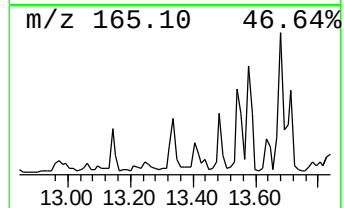
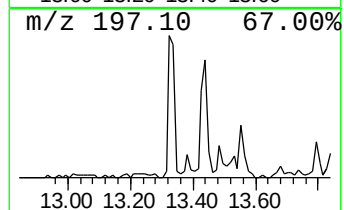
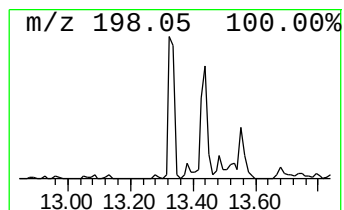
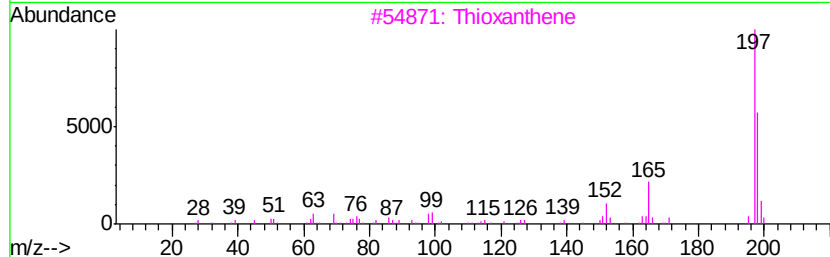
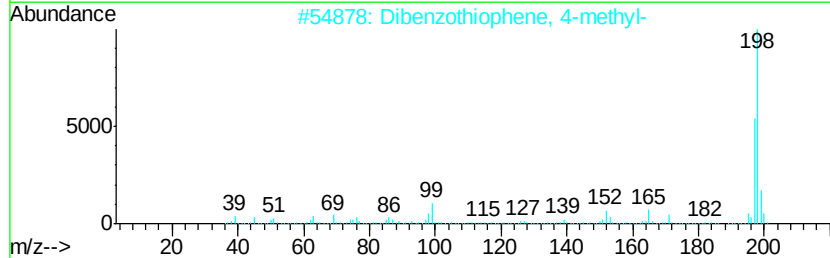
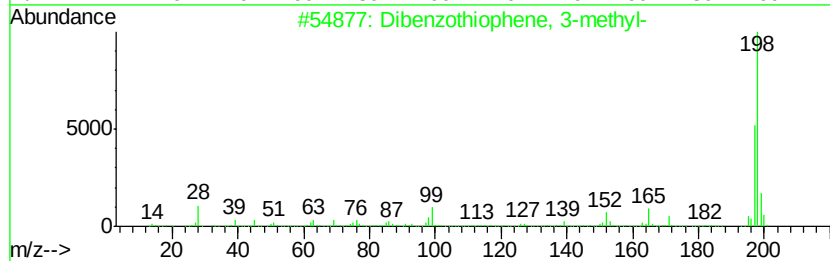
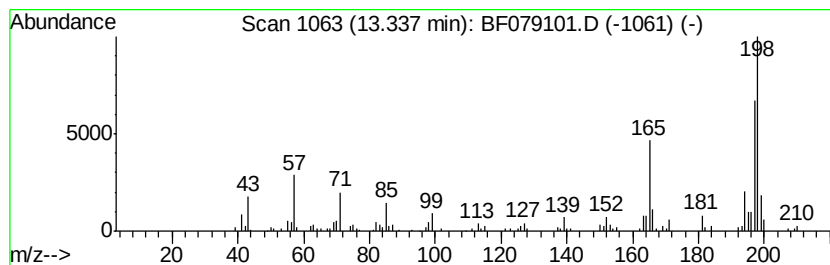
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Dibenzothiophene, 3-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.34	4.48 ng	177377	Phenanthrene-d10	12.91

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	64
2		Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	60
3		Thioxanthene	198	C13H10S	000261-31-4	50
4		Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	49
5		9-Acridinamine, 1,2,3,4-tetrahydro-	198	C13H14N2	000321-64-2	47



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050815\
Data File : BF079101.D
Acq On : 10 May 2015 1:10
Operator : TP/IZ
Sample : G2155-01 5X
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-45AS

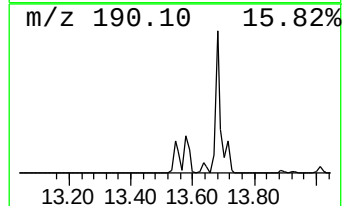
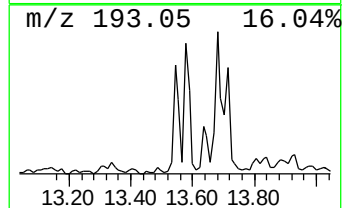
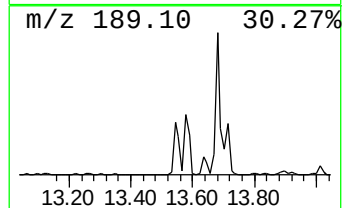
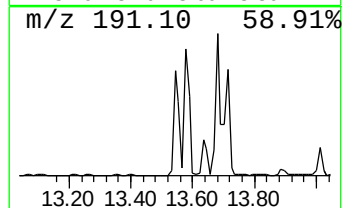
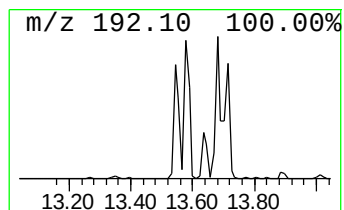
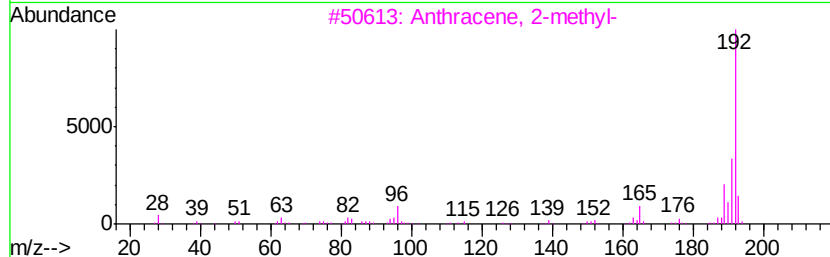
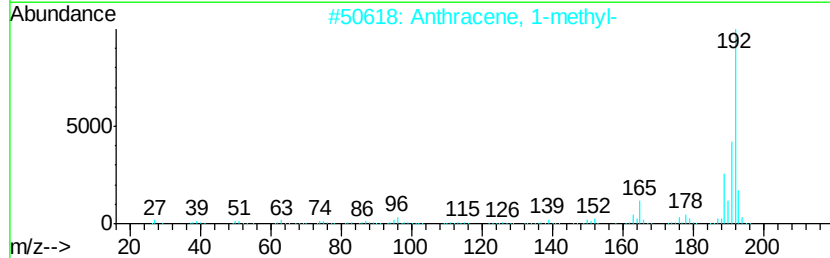
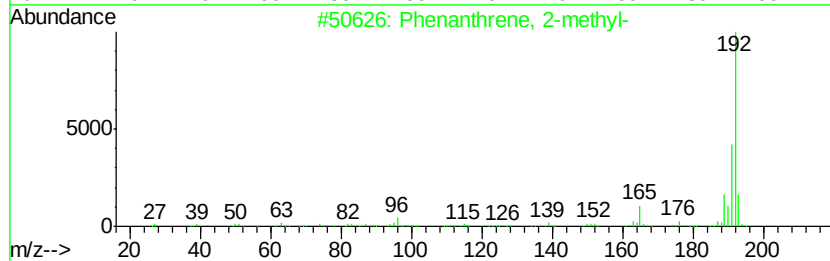
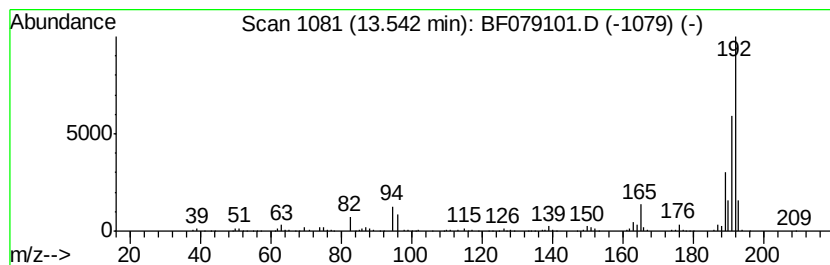
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.54	14.19 ng	562471	Phenanthrene-d10	12.91

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2		Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
3		Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
4		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
5		Anthracene, 9-methyl-	192	C15H12	000779-02-2	93



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050815\
Data File : BF079101.D
Acq On : 10 May 2015 1:10
Operator : TP/IZ
Sample : G2155-01 5X
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-45AS

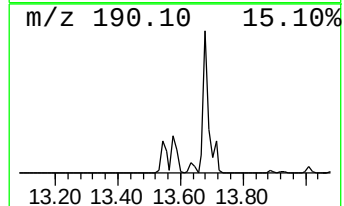
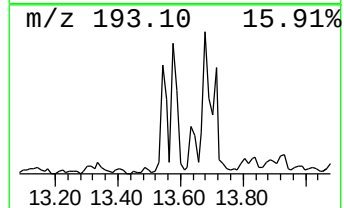
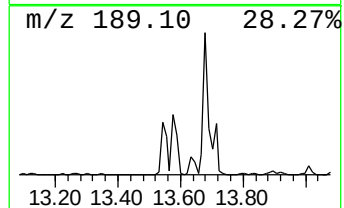
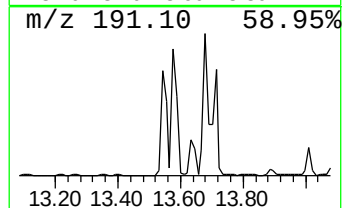
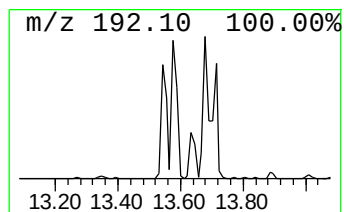
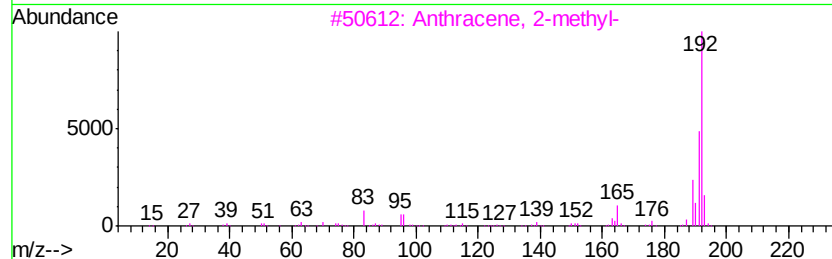
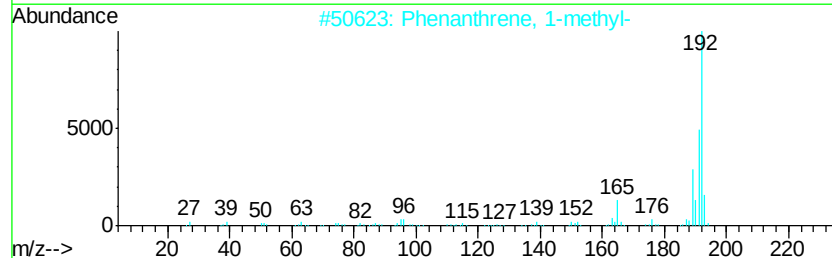
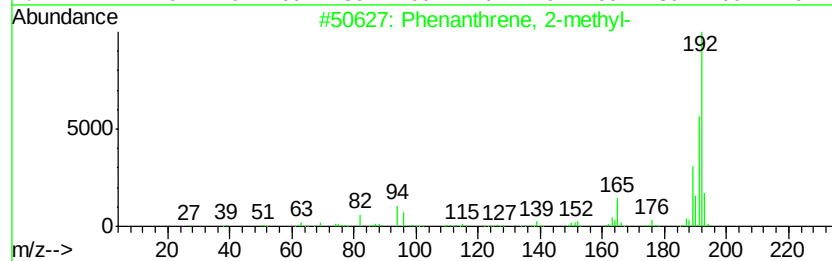
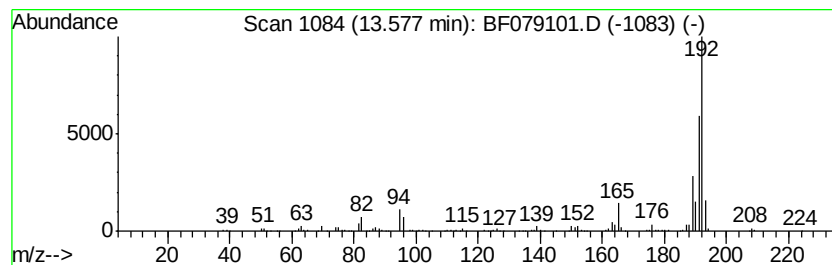
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Phenanthrene, 1-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.58	16.14 ng	639889	Phenanthrene-d10	12.91

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	96
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\BF050815\
Data File : BF079101.D
Acq On : 10 May 2015 1:10
Operator : TP/IZ
Sample : G2155-01 5X
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-45AS

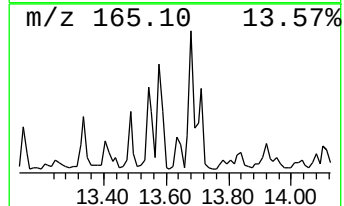
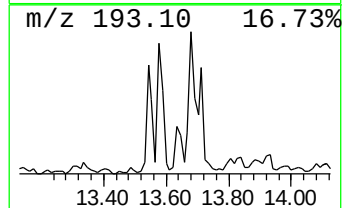
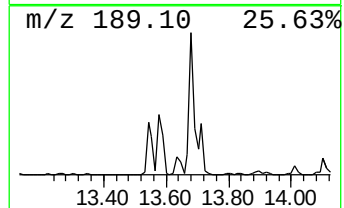
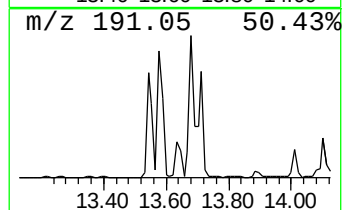
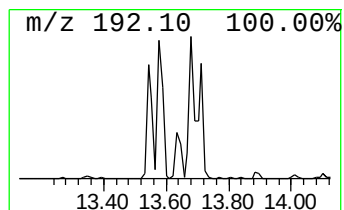
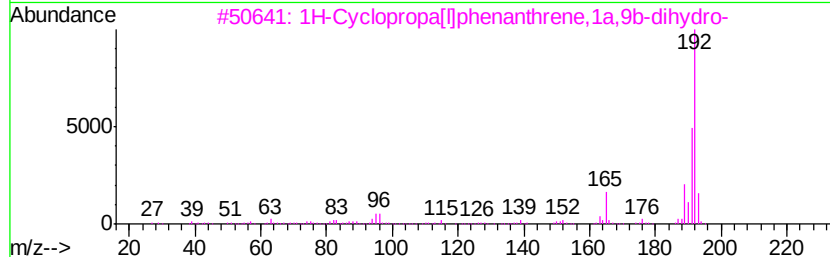
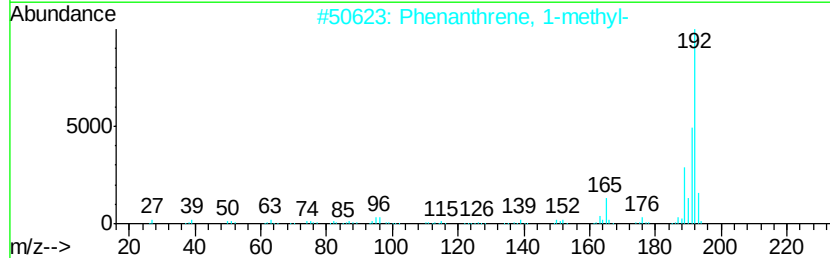
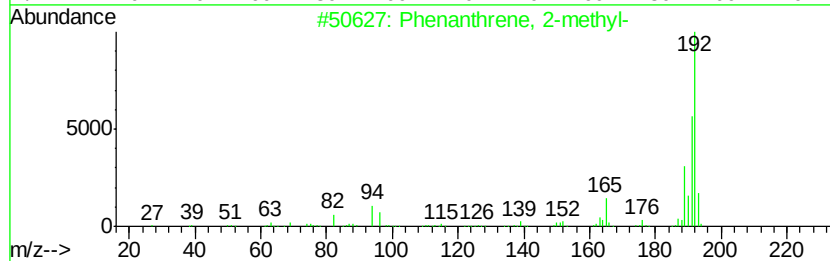
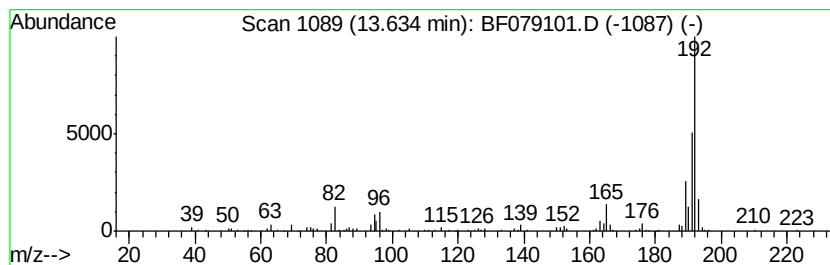
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 1H-Cyclopropa[l]phenanthren... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.63	6.02 ng	238701	Phenanthrene-d10	12.91

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	96
3			1H-Cyclopropa[l]phenanthrene, 1a,...	192	C15H12	000949-41-7	96
4			Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5			Anthracene, 9-methyl-	192	C15H12	000779-02-2	95



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050815\
Data File : BF079101.D
Acq On : 10 May 2015 1:10
Operator : TP/IZ
Sample : G2155-01 5X
Misc :
ALS Vial : 60 Sample Multiplier: 1

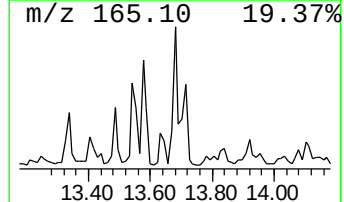
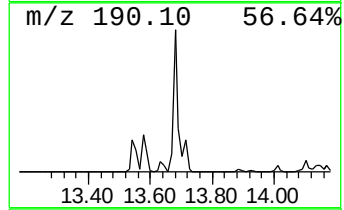
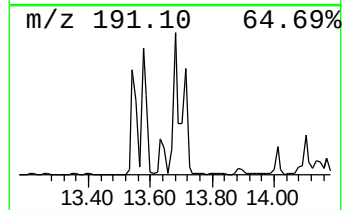
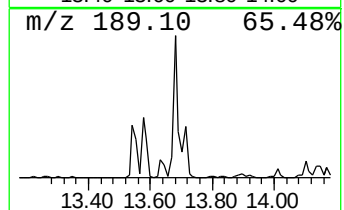
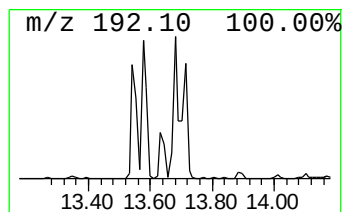
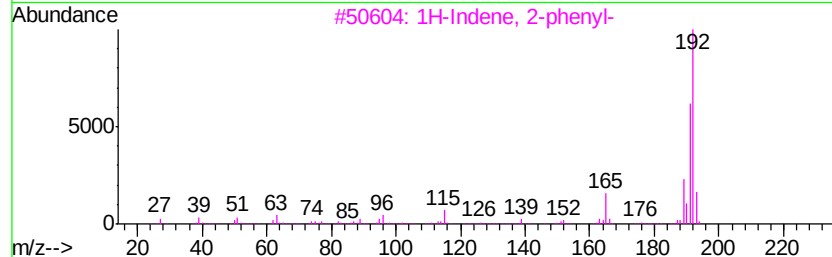
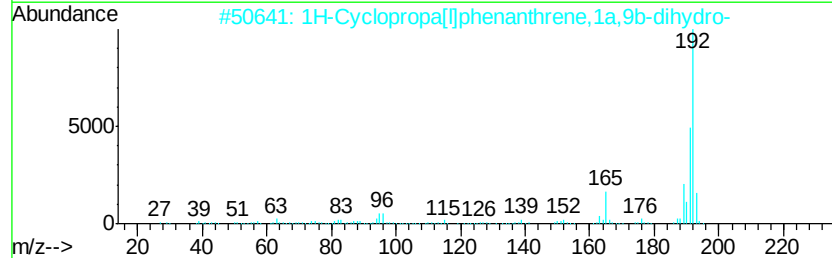
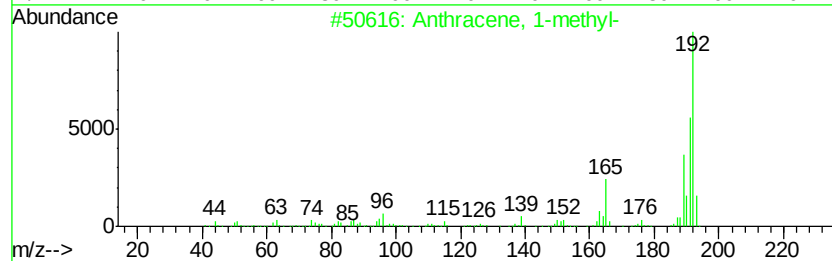
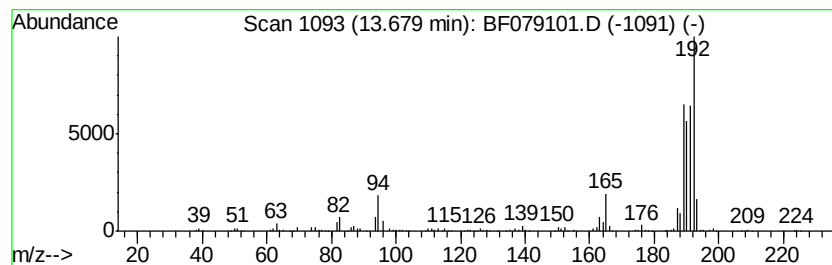
Instrument :
BNA_F
ClientSampleId :
SB-45AS

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Anthracene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.68	24.78 ng	982270	Phenanthrene-d10	12.91	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
2	1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	60
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	60
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	60
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	55



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050815\
Data File : BF079101.D
Acq On : 10 May 2015 1:10
Operator : TP/IZ
Sample : G2155-01 5X
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-45AS

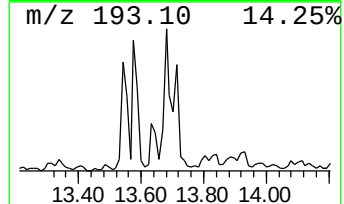
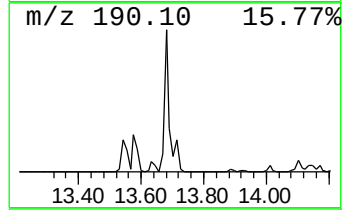
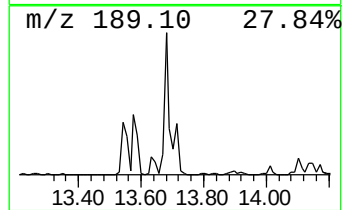
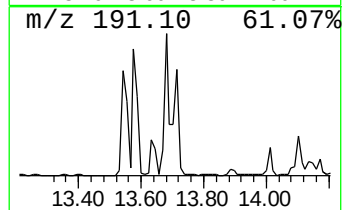
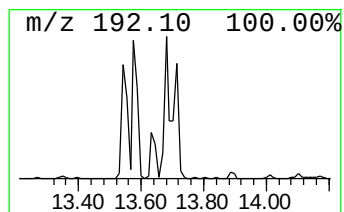
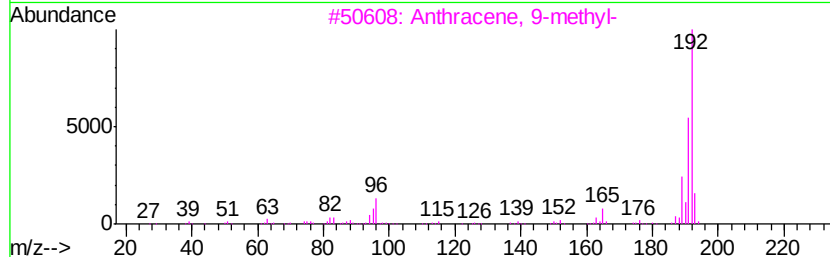
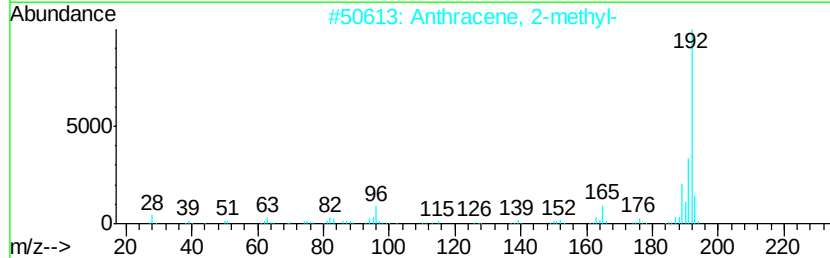
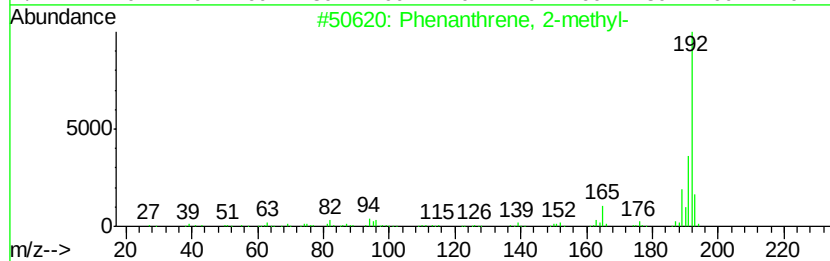
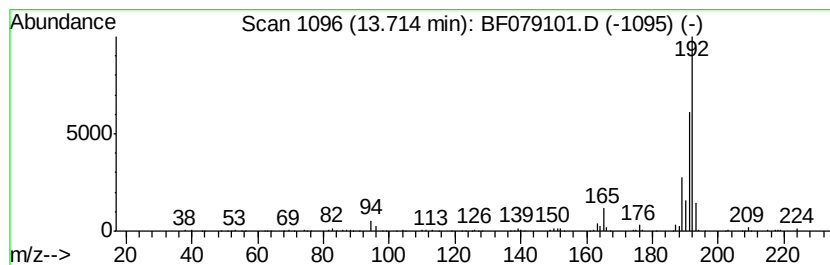
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Anthracene, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.71	7.84 ng	310563	Phenanthrene-d10	12.91

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2			Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
3			Anthracene, 9-methyl-	192	C15H12	000779-02-2	87
4			5H-Dibenzof[a,d]cycloheptene	192	C15H12	000256-81-5	87
5			Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	87



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050815\
Data File : BF079101.D
Acq On : 10 May 2015 1:10
Operator : TP/IZ
Sample : G2155-01 5X
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-45AS

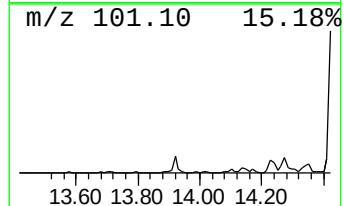
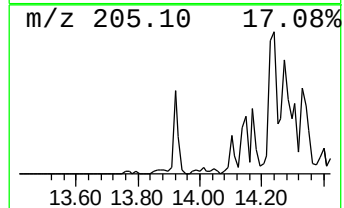
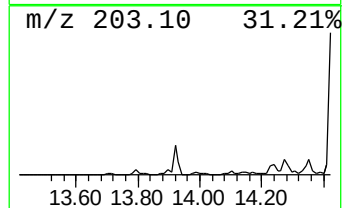
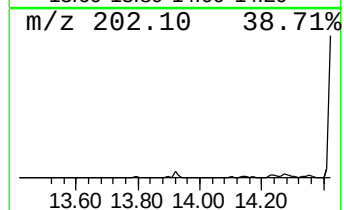
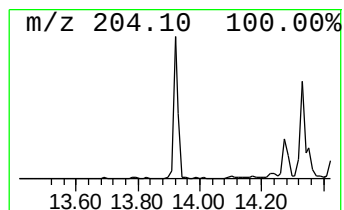
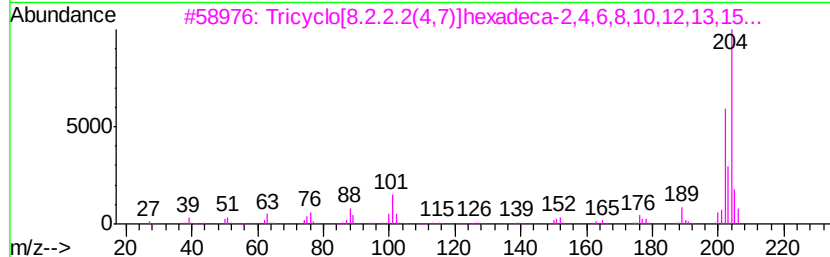
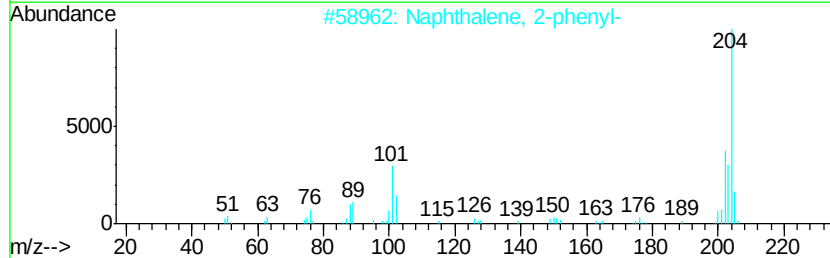
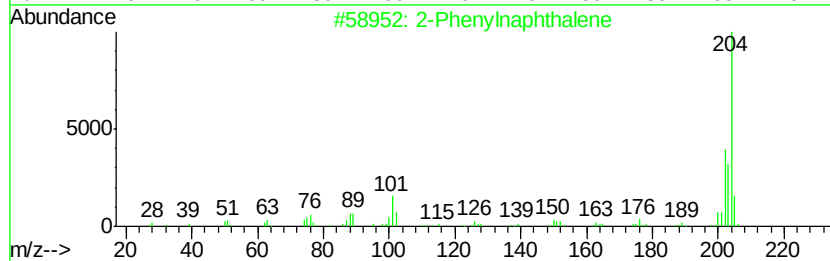
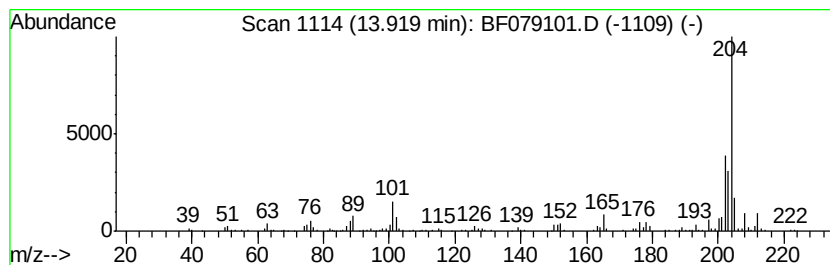
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 2-Phenylnaphthalene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.92	9.62 ng	381450	Phenanthrene-d10	12.91

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2-Phenylnaphthalene	204	C16H12	035465-71-5	96
2			Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
3			Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	83
4			5,16[1',2'l:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	78
5			Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	55



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050815\
Data File : BF079101.D
Acq On : 10 May 2015 1:10
Operator : TP/IZ
Sample : G2155-01 5X
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-45AS

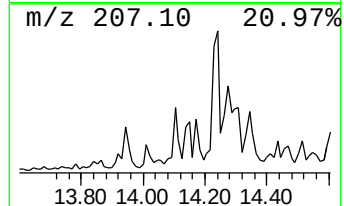
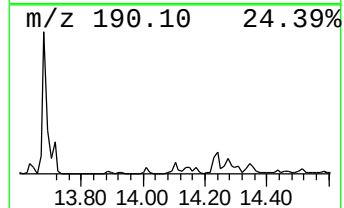
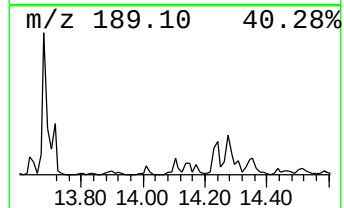
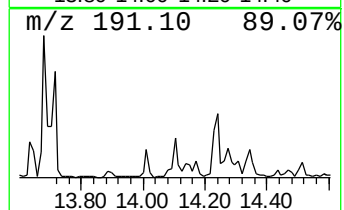
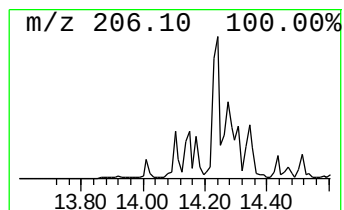
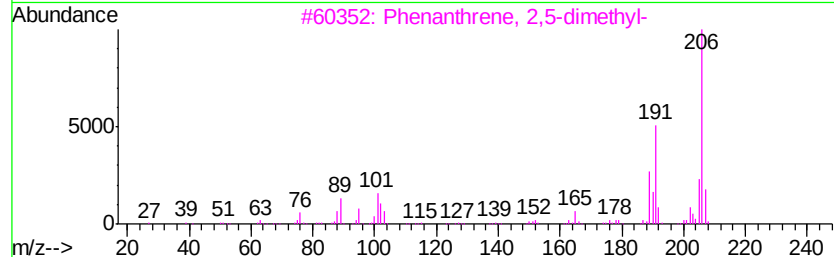
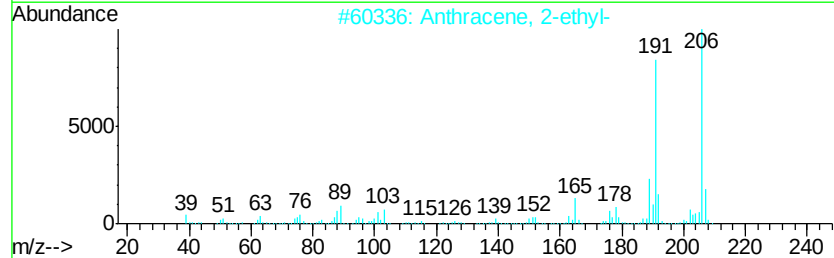
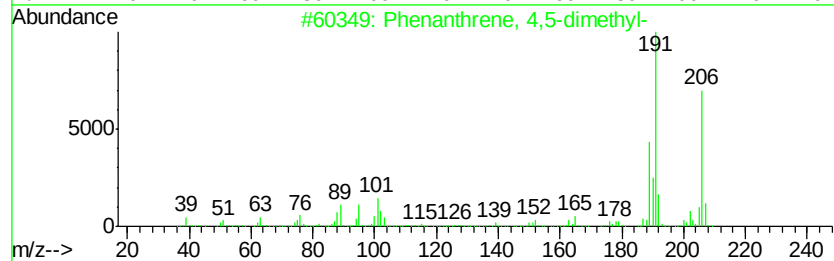
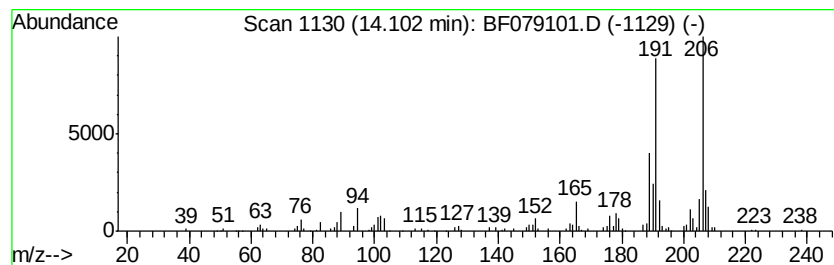
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Phenanthrene, 4,5-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.10	4.41 ng	174873	Phenanthrene-d10	12.91

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
2		Anthracene, 2-ethyl-	206	C16H14	052251-71-5	93
3		Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
4		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
5		1-Methyl-3-phenyl-1H-indene	206	C16H14	022360-62-9	76



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050815\
Data File : BF079101.D
Acq On : 10 May 2015 1:10
Operator : TP/IZ
Sample : G2155-01 5X
Misc :
ALS Vial : 60 Sample Multiplier: 1

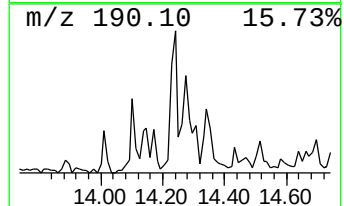
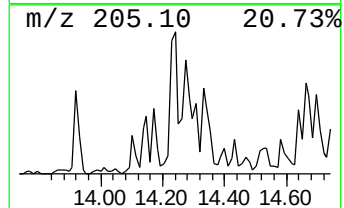
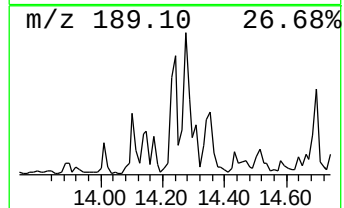
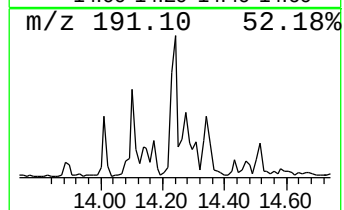
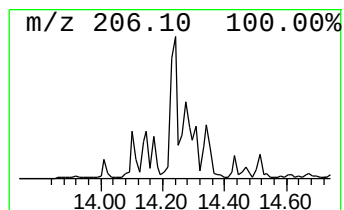
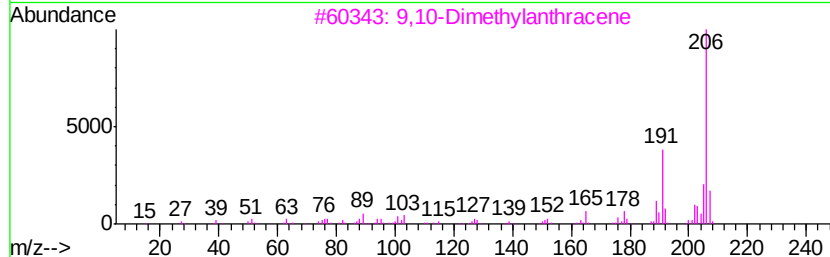
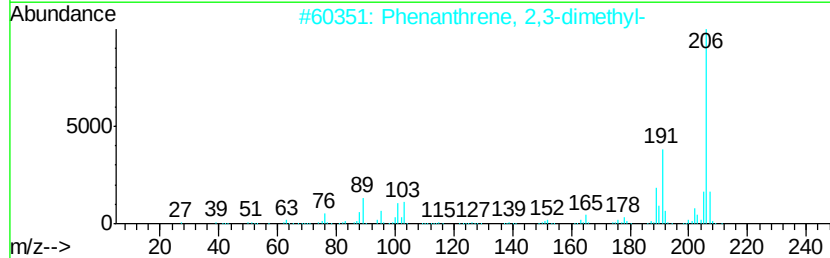
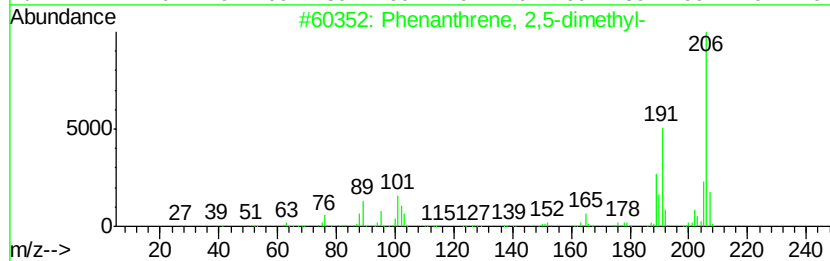
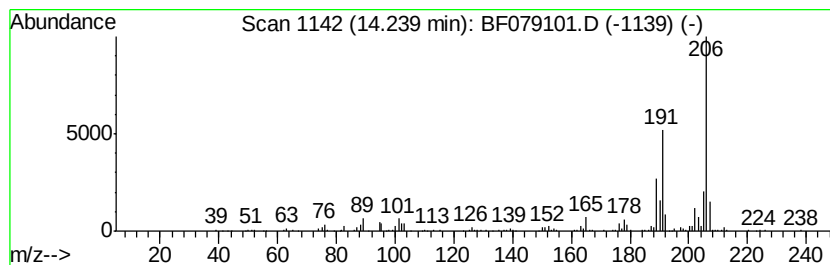
Instrument :
BNA_F
ClientSampleId :
SB-45AS

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.	
14.24	13.09 ng	518941	Phenanthrene-d10	12.91	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	89
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	86
5	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	81



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050815\
Data File : BF079101.D
Acq On : 10 May 2015 1:10
Operator : TP/IZ
Sample : G2155-01 5X
Misc :
ALS Vial : 60 Sample Multiplier: 1

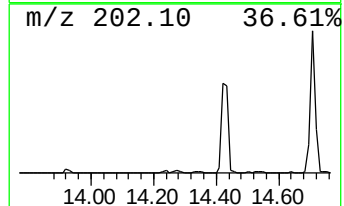
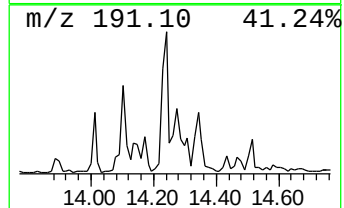
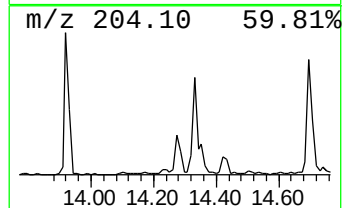
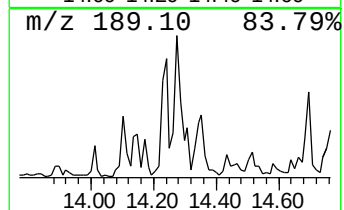
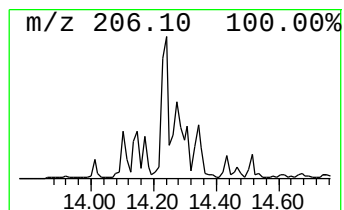
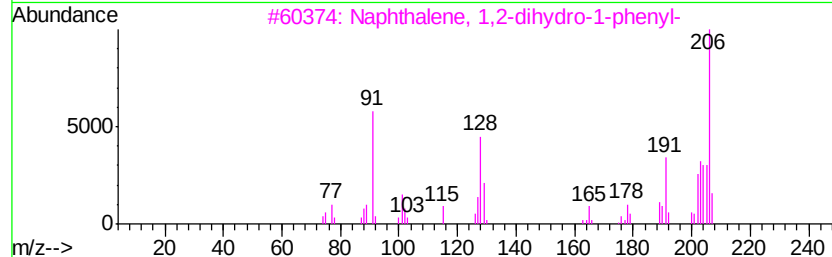
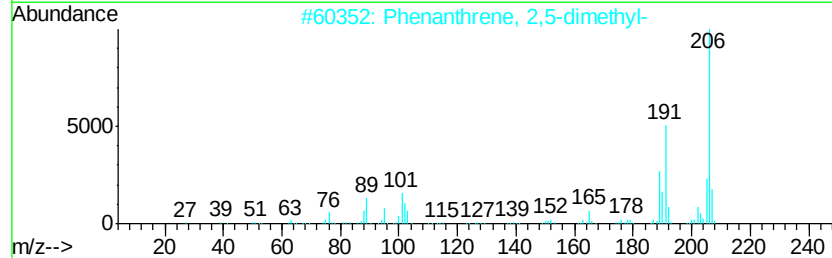
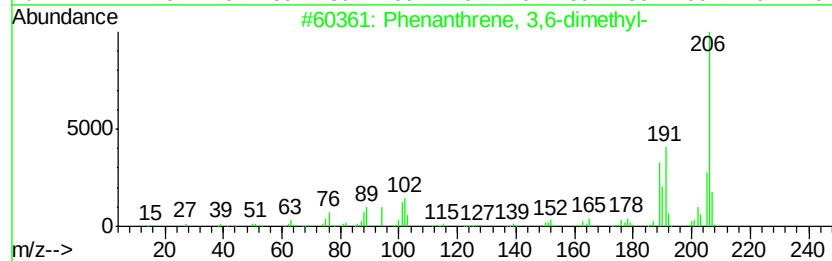
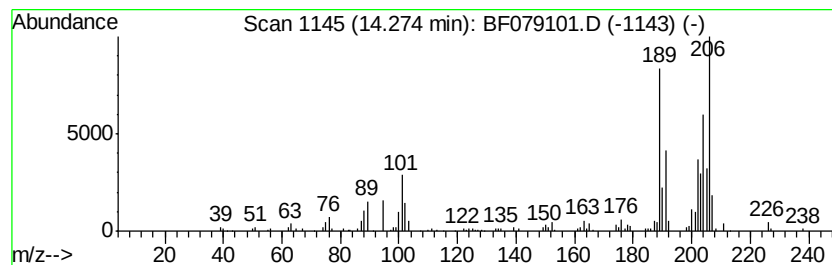
Instrument :
BNA_F
ClientSampleId :
SB-45AS

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Phenanthrene, 3,6-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.	
14.27	12.30 ng	487521	Phenanthrene-d10	12.91	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	50
3	Naphthalene, 1,2-dihydro-1-phenyl-	206	C16H14	016606-46-5	45
4	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	45
5	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	43



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050815\
Data File : BF079101.D
Acq On : 10 May 2015 1:10
Operator : TP/IZ
Sample : G2155-01 5X
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-45AS

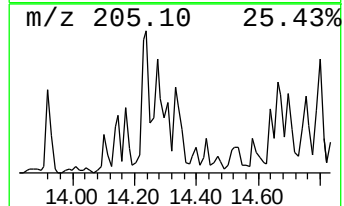
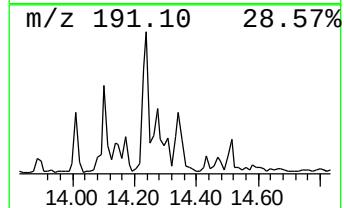
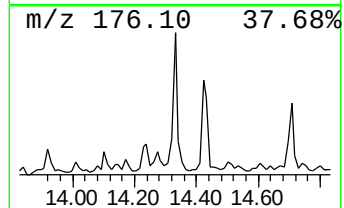
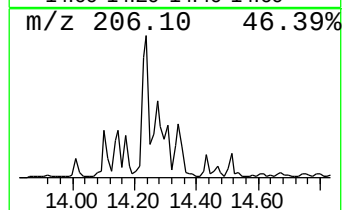
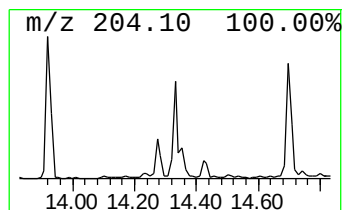
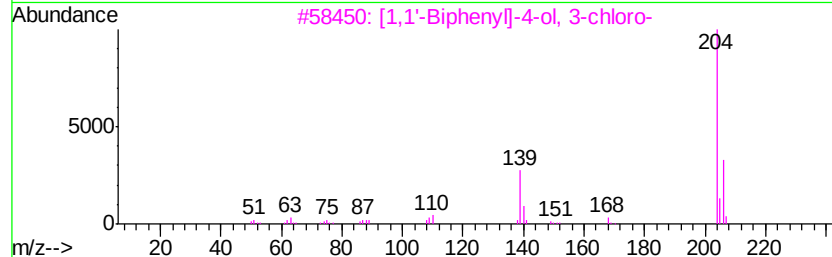
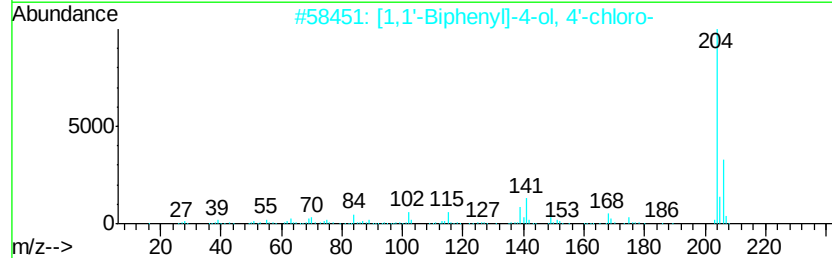
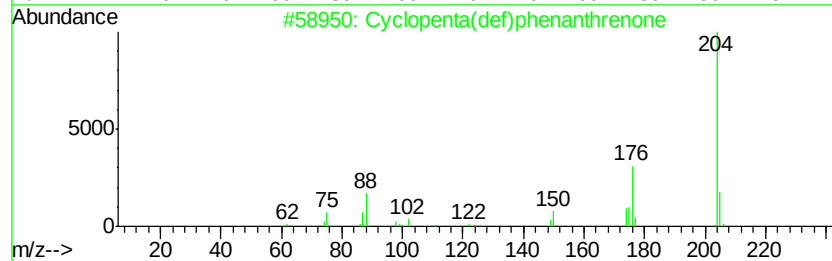
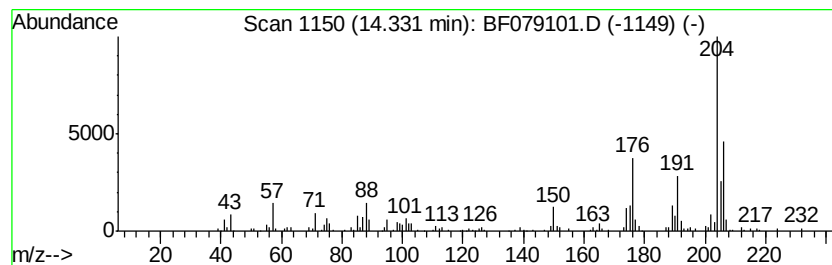
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Cyclopenta(def)phenanthrenone Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.33	9.19 ng	364277	Phenanthrene-d10	12.91

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	92
2		[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	46
3		[1,1'-Biphenyl]-4-ol, 3-chloro-	204	C12H9ClO	000092-04-6	43
4		Pyrimido[5,4-b]benzofurane, 4-ch...	204	C10H5ClN2O	039876-88-5	38
5		[1,1'-Biphenyl]-4-ol], 2-chloro-	204	C12H9ClO	023719-22-4	37



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050815\
Data File : BF079101.D
Acq On : 10 May 2015 1:10
Operator : TP/IZ
Sample : G2155-01 5X
Misc :
ALS Vial : 60 Sample Multiplier: 1

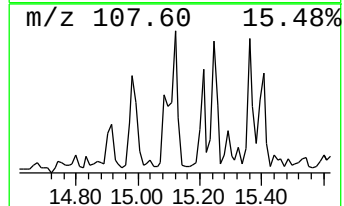
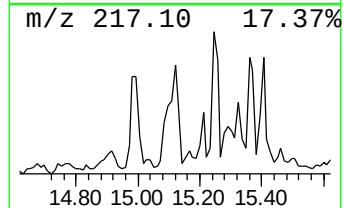
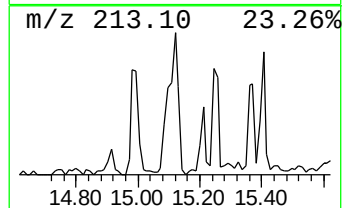
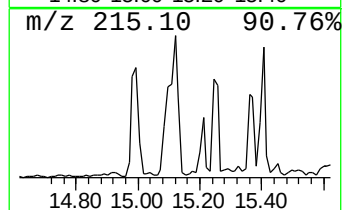
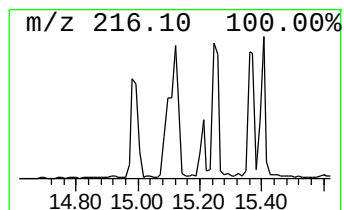
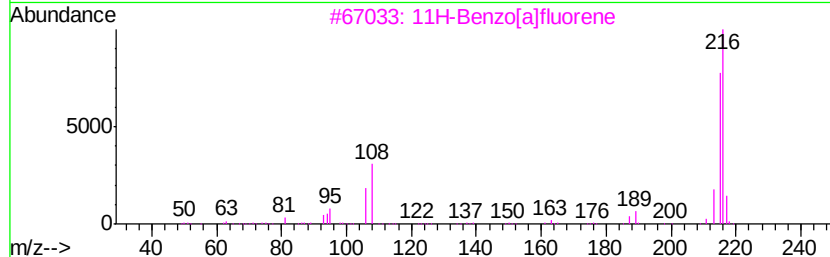
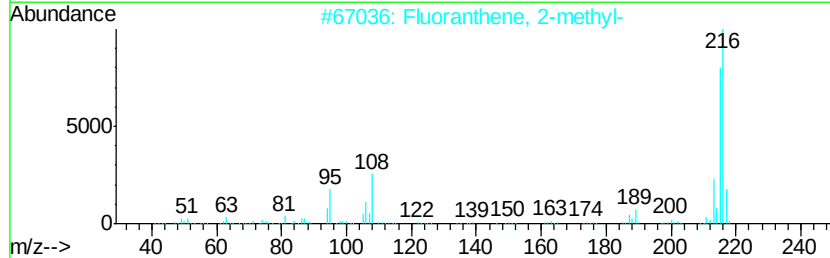
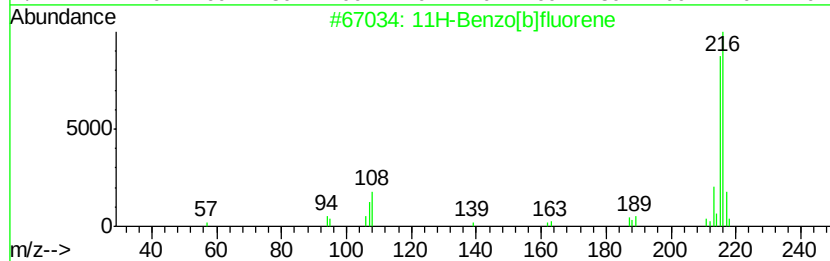
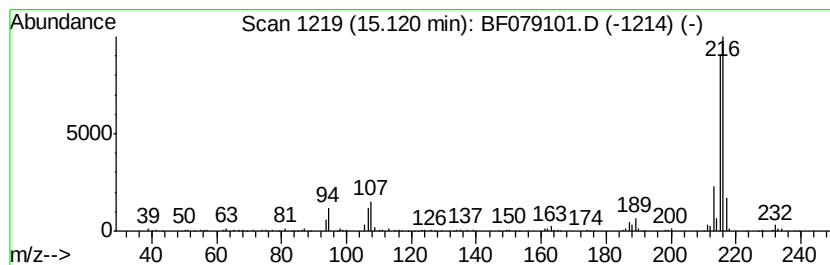
Instrument :
BNA_F
ClientSampleId :
SB-45AS

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 11H-Benzo[b]fluorene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.	
15.12	5.91 ng	650591	Chrysene-d12	16.21	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81



Data Path : Z:\HPCHEM1\BNA F\DATA\BF050815\
Data File : BF079101.D
Acq On : 10 May 2015 1:10
Operator : TP/IZ
Sample : G2155-01 5X
Misc :
ALS Vial : 60 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-45AS

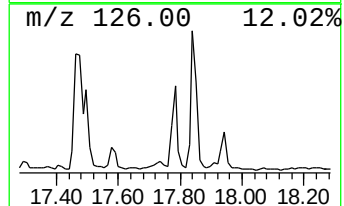
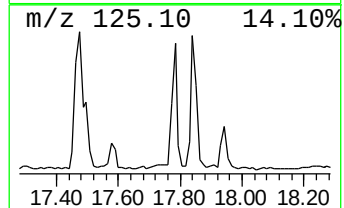
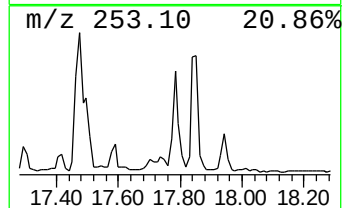
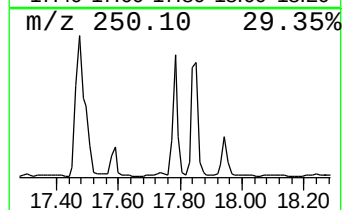
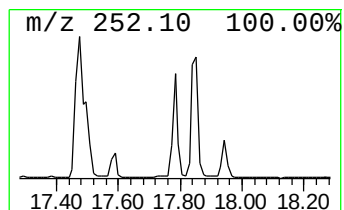
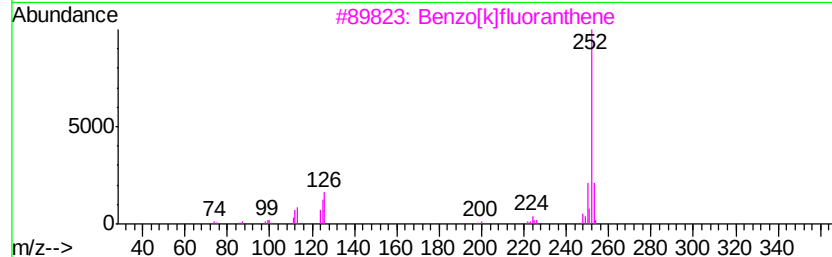
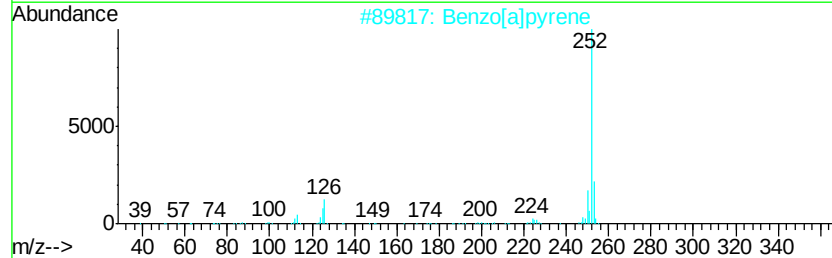
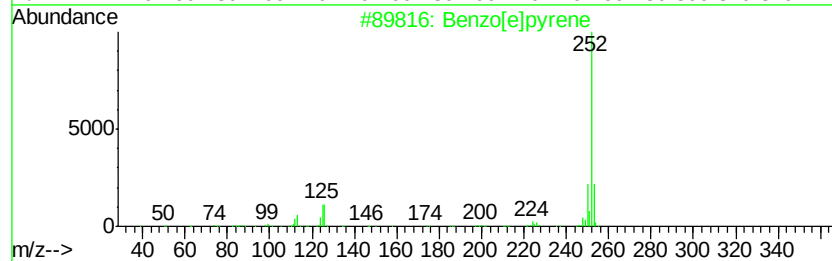
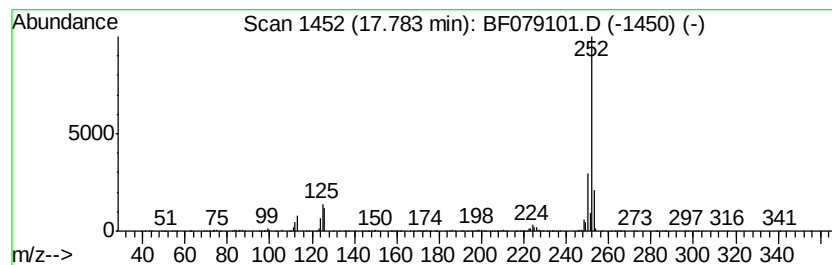
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Benzo[e]pyrene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.78	9.88 ng	440109	Perylene-d12	17.91

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzo[e]pyrene	252	C20H12	000192-97-2	98
2			Benzo[a]pyrene	252	C20H12	000050-32-8	93
3			Benzo[k]fluoranthene	252	C20H12	000207-08-9	91
4			Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	90
5			Benzo[j]fluoranthene	252	C20H12	000205-82-3	90



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050815\
 Data File : BF079101.D
 Acq On : 10 May 2015 1:10
 Operator : TP/IZ
 Sample : G2155-01 5X
 Misc :
 ALS Vial : 60 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-45AS

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.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
unknown1.47	1.47	74.7	ng	1993390	1	7.32	533845	20.0
Butane, 2-methoxy...	1.79	4.4	ng	118063	1	7.32	533845	20.0
unknown7.03	7.03	14.8	ng	395759	1	7.32	533845	20.0
Naphtho[2,3-b]thi...	12.79	5.2	ng	207483	4	12.91	792727	20.0
Dibenzothiophene,...	13.34	4.5	ng	177377	4	12.91	792727	20.0
Phenanthrene, 2-m...	13.54	14.2	ng	562471	4	12.91	792727	20.0
Phenanthrene, 1-m...	13.58	16.1	ng	639889	4	12.91	792727	20.0
1H-Cyclopropa[l]p...	13.63	6.0	ng	238701	4	12.91	792727	20.0
Anthracene, 1-met...	13.68	24.8	ng	982270	4	12.91	792727	20.0
Anthracene, 2-met...	13.71	7.8	ng	310563	4	12.91	792727	20.0
2-Phenylnaphthalene	13.92	9.6	ng	381450	4	12.91	792727	20.0
Phenanthrene, 4,5...	14.10	4.4	ng	174873	4	12.91	792727	20.0
Phenanthrene, 2,5...	14.24	13.1	ng	518941	4	12.91	792727	20.0
Phenanthrene, 3,6...	14.27	12.3	ng	487521	4	12.91	792727	20.0
Cyclopenta(def)ph...	14.33	9.2	ng	364277	4	12.91	792727	20.0
11H-Benzo[b]fluorene	15.12	5.9	ng	650591	5	16.21	2203000	20.0
Benzo[e]pyrene	17.78	9.9	ng	440109	6	17.91	891292	20.0