

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
 Data File : BF091036.D
 Acq On : 4 Nov 2016 22:30
 Operator : UM/SJ
 Sample : H5526-03
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-99-1.0-1.5

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-BF110316.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	1.778	6	8	33	rVB	2133904	4763668	36.20%	2.447%
2	2.144	33	40	52	rVB	1914558	3562155	27.07%	1.830%
3	4.864	275	278	292	rBV	762075	1538931	11.69%	0.790%
4	5.310	314	317	319	rBV	4692992	6285220	47.76%	3.228%
5	6.362	406	409	411	rBV	4036288	5351288	40.66%	2.749%
6	6.476	416	419	421	rBV	5218646	5910353	44.91%	3.036%
7	6.704	436	439	441	rBV	1105089	1312196	9.97%	0.674%
8	6.864	450	453	455	rBV	3262791	4735013	35.98%	2.432%
9	7.276	485	489	491	rBV	3190254	3650170	27.73%	1.875%
10	7.402	496	500	506	rVB	132377	222512	1.69%	0.114%
11	7.985	549	551	561	rBV	1476744	1862834	14.15%	0.957%
12	9.070	643	646	649	rBV	5771191	5851524	44.46%	3.006%
13	9.470	678	681	683	rVV	1644894	1475727	11.21%	0.758%
14	9.596	690	692	695	rBV	245749	282747	2.15%	0.145%
15	9.745	702	705	706	rBV	1762805	1870833	14.21%	0.961%
16	9.768	706	707	710	rVB	297031	366317	2.78%	0.188%
17	9.950	721	723	725	rBV	232889	352937	2.68%	0.181%
18	10.282	751	752	756	rVV	389463	474049	3.60%	0.243%
19	10.442	765	766	769	rVV	177624	211228	1.60%	0.108%
20	10.533	771	774	776	rVV	3500885	3507901	26.65%	1.802%
21	10.659	780	785	788	rVB2	174137	275039	2.09%	0.141%
22	10.831	796	800	804	rBV4	104269	330771	2.51%	0.170%
23	10.991	809	814	816	rBV4	111701	337687	2.57%	0.173%
24	11.036	816	818	820	rVV	539624	620260	4.71%	0.319%
25	11.082	820	822	823	rVV	149896	191656	1.46%	0.098%
26	11.116	823	825	829	rVB	683157	777355	5.91%	0.399%
27	11.253	832	837	839	rBV2	6102120	10414897	79.13%	5.350%
28	11.299	839	841	843	rVV	2090370	1908189	14.50%	0.980%
29	11.459	852	855	859	rBV	1488641	1608181	12.22%	0.826%
30	11.516	859	860	862	rBV2	149752	193830	1.47%	0.100%
31	11.562	862	864	866	rVB2	157305	240838	1.83%	0.124%
32	11.631	868	870	873	rVB2	134896	194804	1.48%	0.100%
33	11.722	876	878	879	rBV	931061	867150	6.59%	0.445%
34	11.756	879	881	883	rVB	1157013	1135747	8.63%	0.583%

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
 Data File : BF091036.D
 Acq On : 4 Nov 2016 22:30
 Operator : UM/SJ
 Sample : H5526-03
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-99-1.0-1.5

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-BF110316.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.802	883	885	886	rVB	308481	280903	2.13%	0.144%
36	11.836	886	888	892	rVB2	1459333	2010085	15.27%	1.032%
37	12.019	902	904	905	rBV	843375	689098	5.24%	0.354%
38	12.054	905	907	909	rVB	857402	1062110	8.07%	0.546%
39	12.168	914	917	918	rBV	203910	258831	1.97%	0.133%
40	12.271	924	926	928	rBV	352664	510302	3.88%	0.262%
41	12.305	928	929	933	rVB2	192419	306057	2.33%	0.157%
42	12.374	933	935	937	rVB	805832	1000823	7.60%	0.514%
43	12.454	938	942	944	rBV	6967364	11304151	85.89%	5.806%
44	12.499	944	946	948	rVB2	225156	275215	2.09%	0.141%
45	12.579	951	953	955	rBV	761606	903694	6.87%	0.464%
46	12.682	958	962	963	rBV2	6421855	12034210	91.44%	6.181%
47	12.716	963	965	969	rVB3	448368	658020	5.00%	0.338%
48	12.785	969	971	972	rBV	680712	869957	6.61%	0.447%
49	12.819	972	974	976	rVB2	3317219	4653142	35.36%	2.390%
50	12.888	976	980	981	rBV2	673726	1093137	8.31%	0.561%
51	12.991	985	989	991	rVB2	858808	1607095	12.21%	0.825%
52	13.059	991	995	996	rBV3	468578	657744	5.00%	0.338%
53	13.094	996	998	1000	rBV	1038251	1147264	8.72%	0.589%
54	13.185	1004	1006	1007	rBV	478598	358360	2.72%	0.184%
55	13.219	1007	1009	1010	rBV	376900	420930	3.20%	0.216%
56	13.391	1020	1024	1025	rBV3	159963	406501	3.09%	0.209%
57	13.414	1025	1026	1030	rVB3	234727	309601	2.35%	0.159%
58	13.505	1032	1034	1036	rVV	1412028	1705668	12.96%	0.876%
59	13.608	1040	1043	1044	rBV	1996055	1912431	14.53%	0.982%
60	13.631	1044	1045	1046	rVV	802398	1000441	7.60%	0.514%
61	13.665	1046	1048	1051	rVV4	831445	1875204	14.25%	0.963%
62	13.711	1051	1052	1054	rVV	1679264	1656186	12.58%	0.851%
63	13.779	1054	1058	1061	rVB	318144	464542	3.53%	0.239%
64	13.859	1061	1065	1067	rBV2	4915603	10246369	77.85%	5.263%
65	13.905	1067	1069	1071	rVV	4653640	6379114	48.47%	3.277%
66	13.974	1072	1075	1077	rBV2	422435	732597	5.57%	0.376%
67	14.054	1077	1082	1083	rBV4	416364	855595	6.50%	0.439%
68	14.088	1083	1085	1087	rVB2	555987	832666	6.33%	0.428%
69	14.214	1094	1096	1097	rBV	414638	527487	4.01%	0.271%
70	14.248	1097	1099	1100	rVV	1114837	1175818	8.93%	0.604%
71	14.282	1100	1102	1104	rVV2	622324	834519	6.34%	0.429%

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091036.D
Acq On : 4 Nov 2016 22:30
Operator : UM/SJ
Sample : H5526-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-99-1.0-1.5

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-BF110316.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	14.339	1104	1107	1108	rVV3	333283	697050	5.30%	0.358%
73	14.374	1108	1110	1113	rVV3	506815	935389	7.11%	0.480%
74	14.442	1115	1116	1119	rVB2	349758	335154	2.55%	0.172%
75	14.557	1123	1126	1131	rVV4	443070	837109	6.36%	0.430%
76	14.637	1131	1133	1136	rVV4	134345	319305	2.43%	0.164%
77	14.728	1138	1141	1144	rVV2	582702	1036455	7.88%	0.532%
78	14.831	1146	1150	1151	rVV2	195903	437077	3.32%	0.225%
79	14.888	1151	1155	1158	rVV	5264329	13160981	100.00%	6.760%
80	14.934	1158	1159	1161	rVV	310955	550274	4.18%	0.283%
81	14.968	1161	1162	1164	rVV	1175524	1011606	7.69%	0.520%
82	15.048	1167	1169	1172	rBV2	289097	778765	5.92%	0.400%
83	15.151	1175	1178	1181	rVV	3055650	4902012	37.25%	2.518%
84	15.220	1181	1184	1186	rVV	3995548	5840833	44.38%	3.000%
85	15.265	1186	1188	1189	rVV	852599	1322645	10.05%	0.679%
86	15.288	1189	1190	1193	rVB2	1548824	1973325	14.99%	1.014%
87	15.540	1210	1212	1214	rVB2	149875	188636	1.43%	0.097%
88	15.654	1219	1222	1223	rBV	107144	218861	1.66%	0.112%
89	15.722	1226	1228	1230	rVV	142120	214959	1.63%	0.110%
90	16.191	1265	1269	1271	rBV3	140345	399198	3.03%	0.205%
91	16.237	1271	1273	1275	rBV	117663	230961	1.75%	0.119%
92	16.408	1284	1288	1292	rBV3	299091	1169865	8.89%	0.601%
93	16.591	1299	1304	1307	rBV	2059830	4418727	33.57%	2.270%
94	16.637	1307	1308	1311	rVB	162512	214114	1.63%	0.110%
95	16.728	1313	1316	1318	rBV	328524	586017	4.45%	0.301%
96	16.785	1318	1321	1324	rVB2	319903	533938	4.06%	0.274%
97	16.991	1334	1339	1343	rVB	1656297	3498257	26.58%	1.797%
98	17.185	1353	1356	1363	rVB2	371864	896001	6.81%	0.460%
99	18.980	1508	1513	1519	rVB	408566	1352069	10.27%	0.694%
100	19.151	1522	1528	1531	rBV	252964	924618	7.03%	0.475%

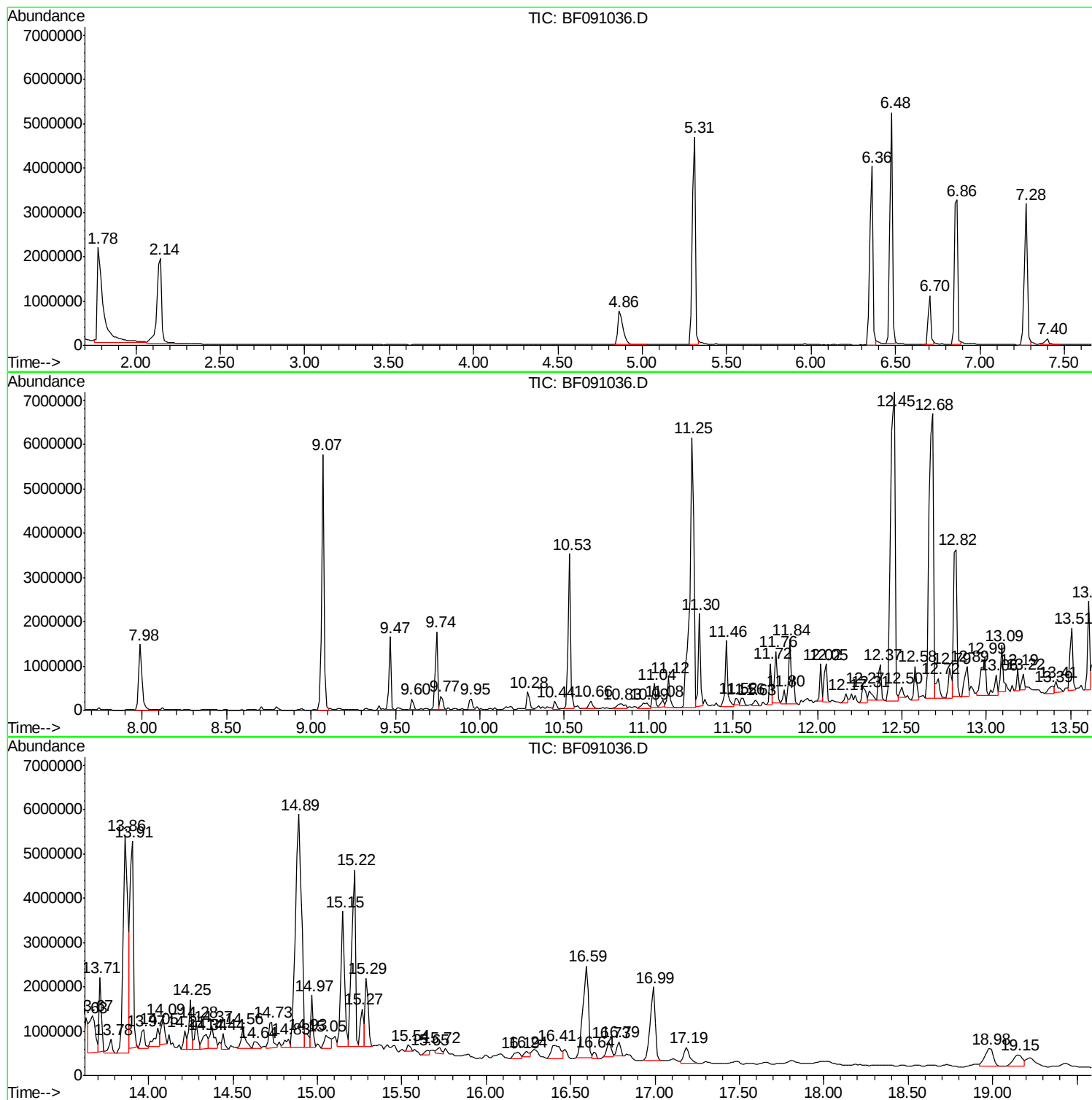
Sum of corrected areas: 194684075

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091036.D
Acq On : 4 Nov 2016 22:30
Operator : UM/SJ
Sample : H5526-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-99-1.0-1.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.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\BF110416\
Data File : BF091036.D
Acq On : 4 Nov 2016 22:30
Operator : UM/SJ
Sample : H5526-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-99-1.0-1.5

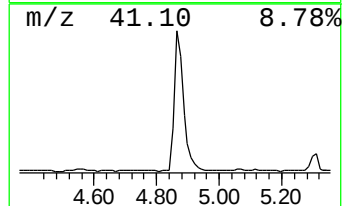
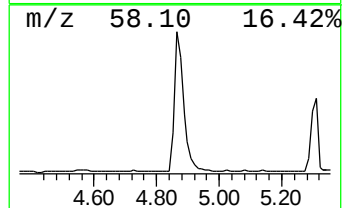
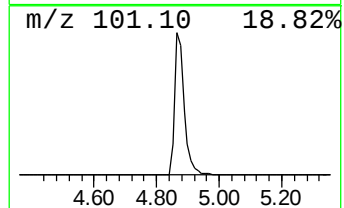
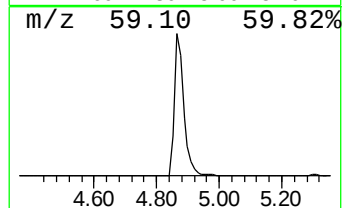
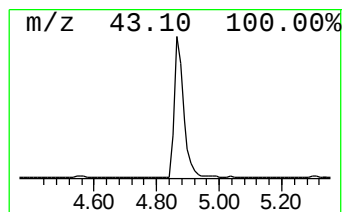
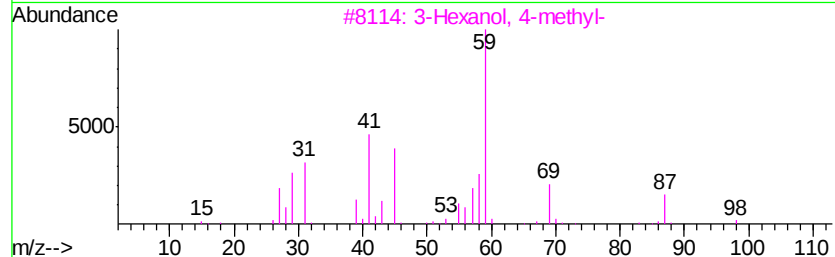
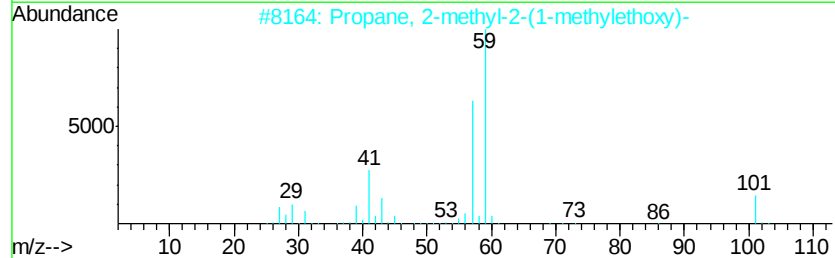
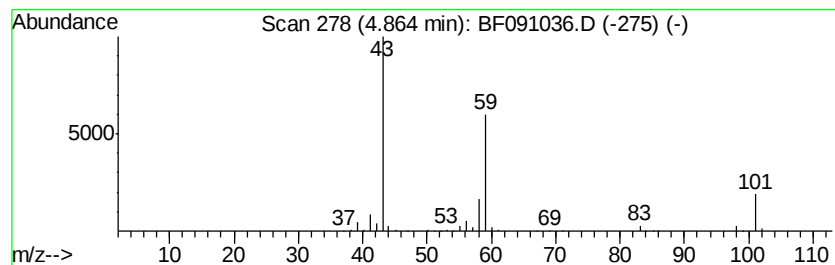
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.86	23.46 ng	1538930	1,4-Dichlorobenzene-d4	6.70

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2		Propane, 2-methyl-2-(1-methyleth...	116	C7H16O	017348-59-3	36
3		3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
4		Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
5		Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091036.D
Acq On : 4 Nov 2016 22:30
Operator : UM/SJ
Sample : H5526-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-99-1.0-1.5

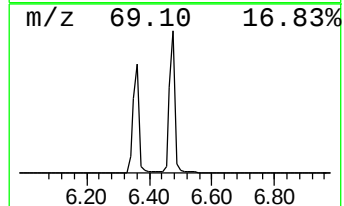
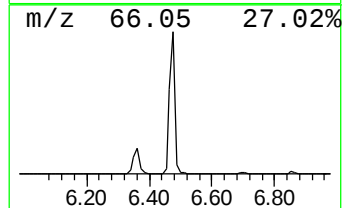
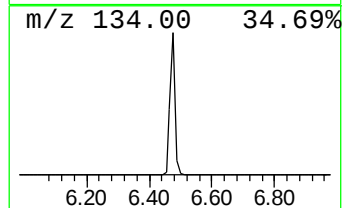
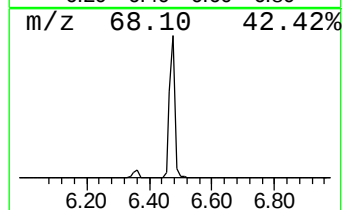
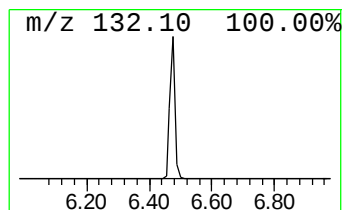
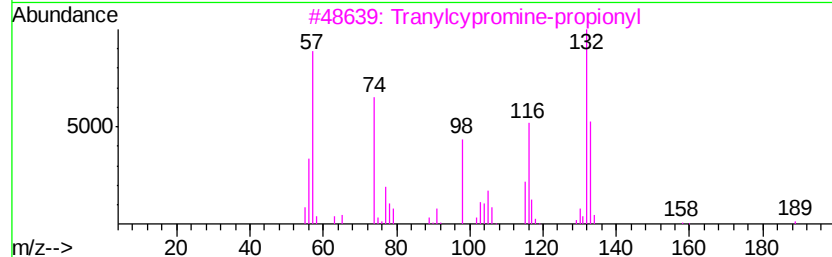
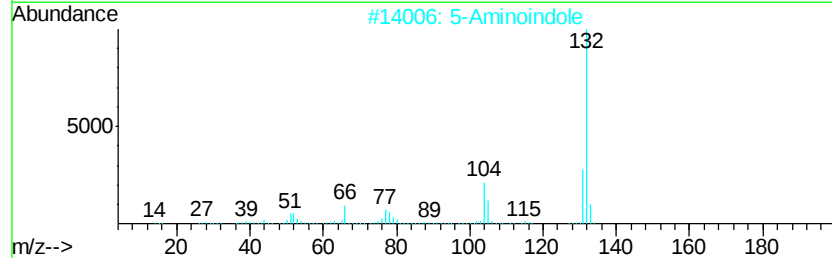
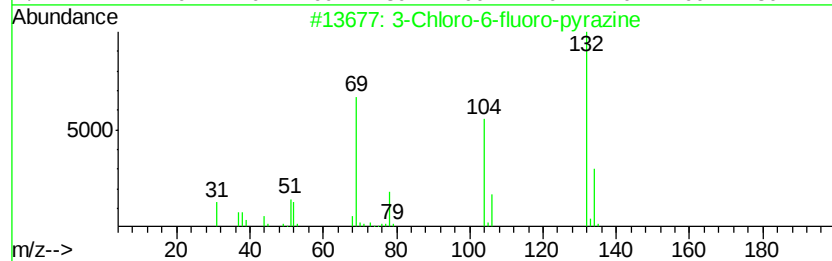
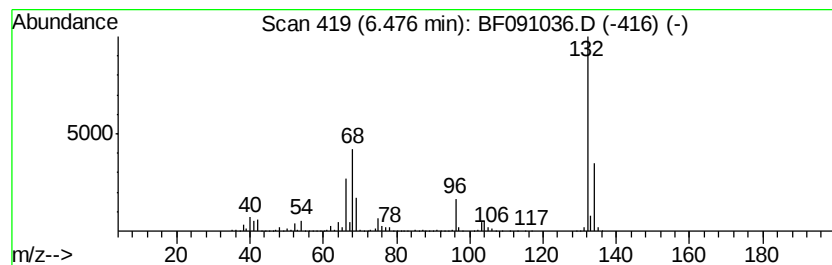
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 unknown6.48 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.48	90.08 ng	5910350	1,4-Dichlorobenzene-d4	6.70

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
2		5-Aminoindole	132	C8H8N2	005192-03-0	12
3		Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
4		4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	9
5		2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091036.D
Acq On : 4 Nov 2016 22:30
Operator : UM/SJ
Sample : H5526-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

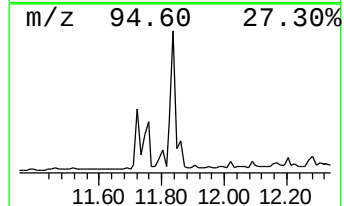
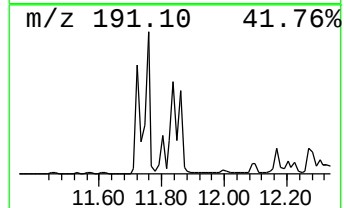
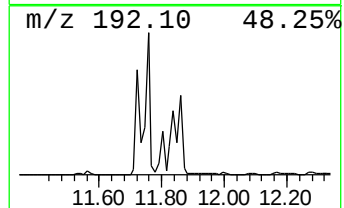
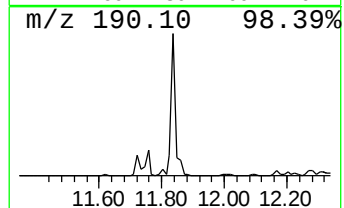
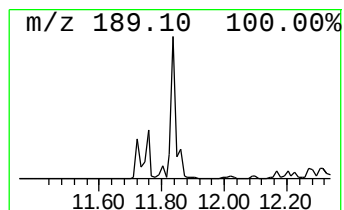
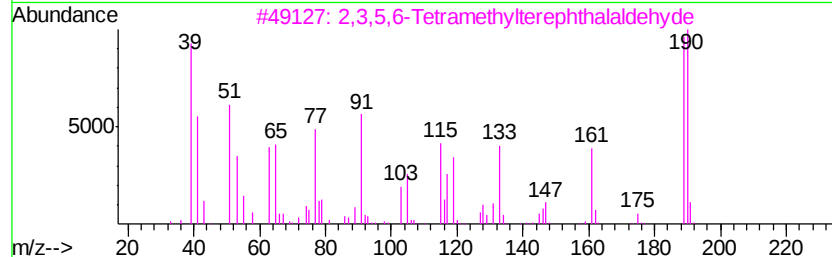
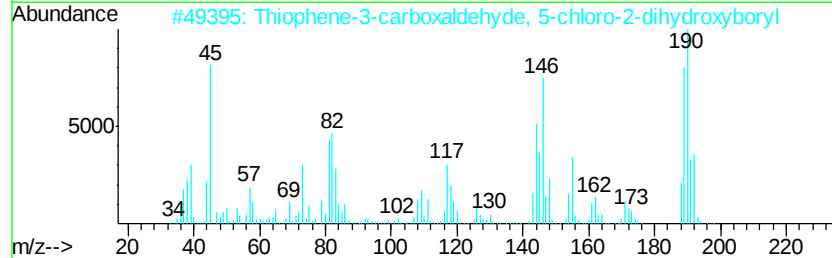
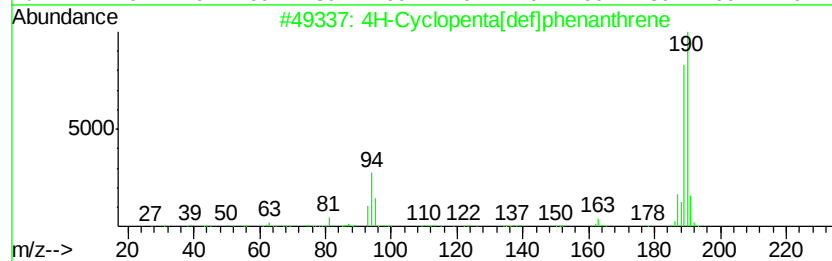
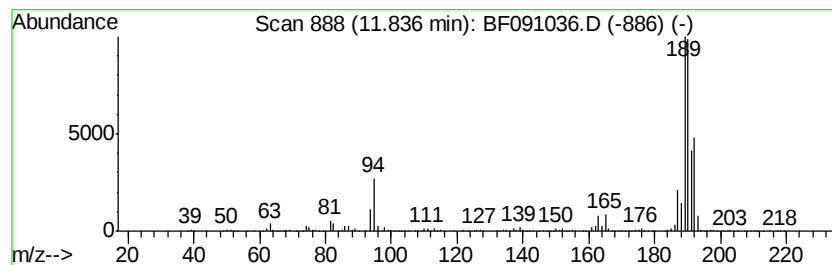
Instrument :
BNA_F
ClientSampleId :
SB-99-1.0-1.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.84	3.86 ng	2010090	Phenanthrene-d10	11.23	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	95
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	53
3	2,3,5,6-Tetramethylterephthald...	190	C12H14O2	007072-01-7	43
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	42
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	40



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091036.D
Acq On : 4 Nov 2016 22:30
Operator : UM/SJ
Sample : H5526-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-99-1.0-1.5

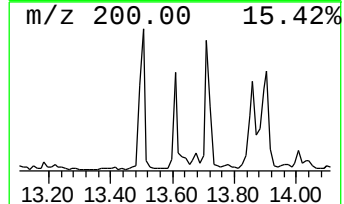
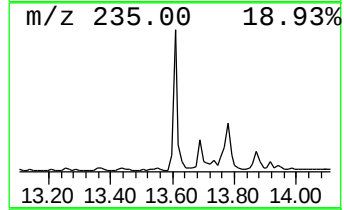
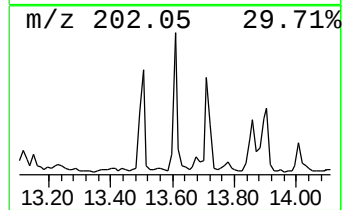
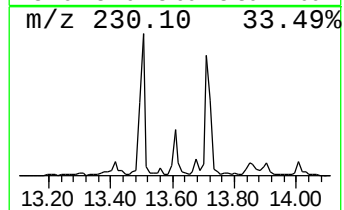
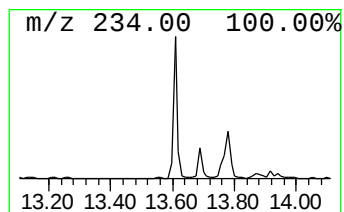
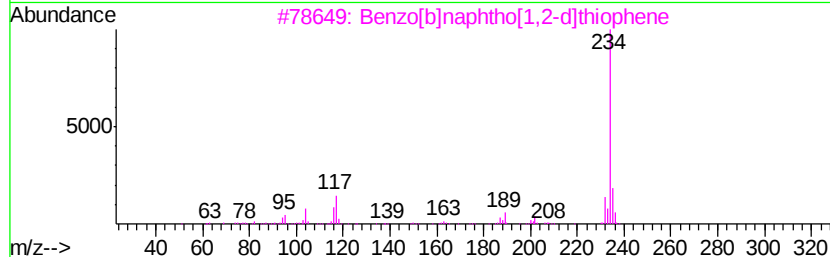
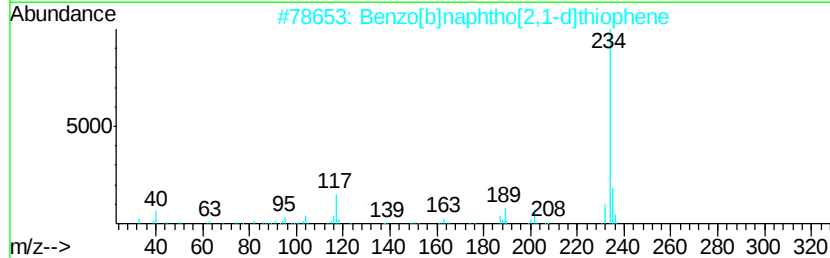
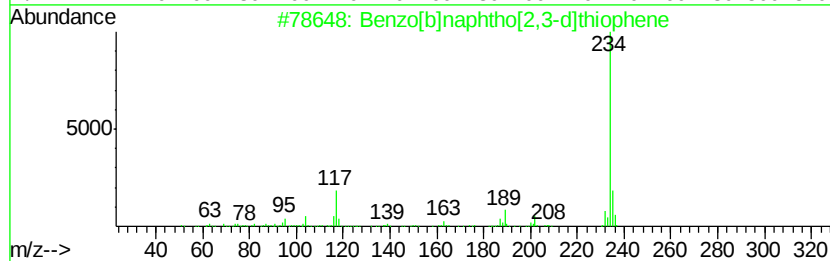
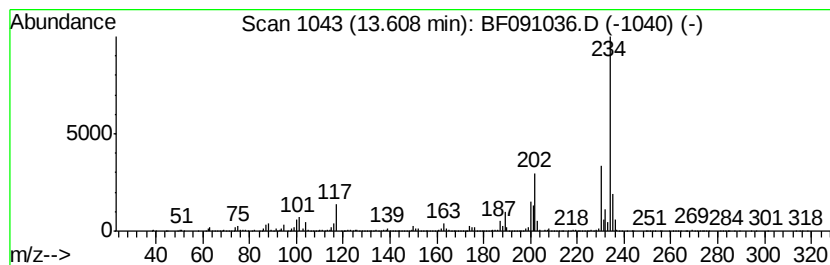
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.61	3.73 ng	1912430	Chrysene-d12	13.87

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	95
2		Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	92
3		Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	49
4		2-Amino-6-t-butyl-3-cyano-4,5,6,...	234	C13H18N2S	042159-76-2	46
5		Anthra[1,9a,9-cd;5,10a,10-c'd']d...	234	C14H6N2O2	000201-91-2	38



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091036.D
Acq On : 4 Nov 2016 22:30
Operator : UM/SJ
Sample : H5526-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-99-1.0-1.5

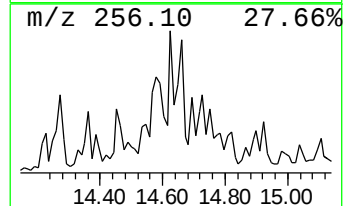
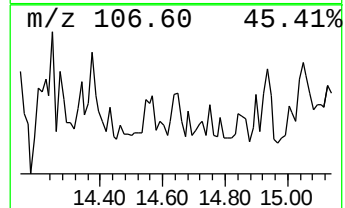
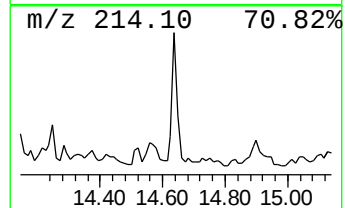
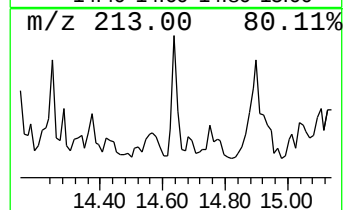
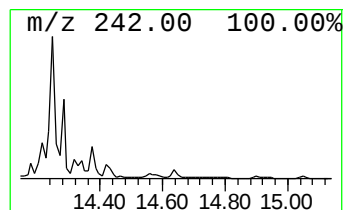
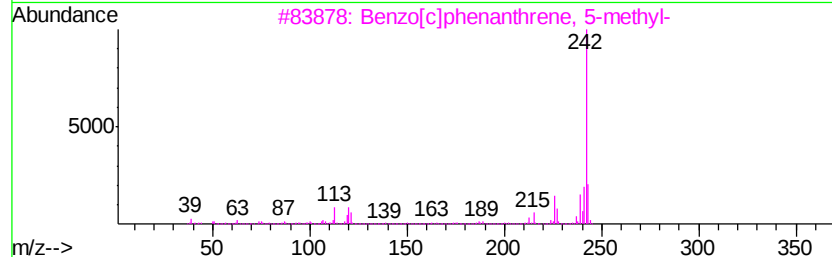
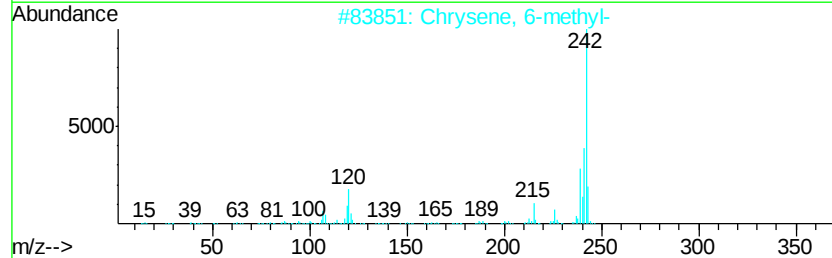
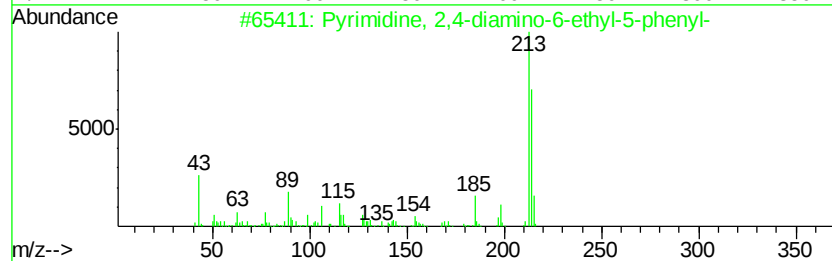
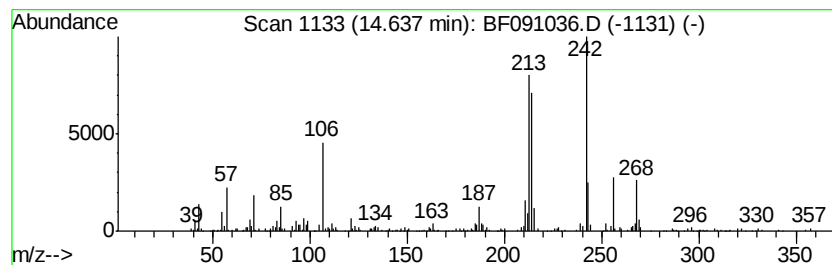
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 unknown14.64 Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.64	4.83 ng	319305	Perylene-d12	15.27

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pyrimidine, 2,4-diamino-6-ethyl-...	214	C12H14N4	027653-49-2	27
2			Chrysene, 6-methyl-	242	C19H14	003697-24-3	22
3			Benzo[c]phenanthrene, 5-methyl-	242	C19H14	000652-04-0	22
4			[4-(4-Methoxymethylbenzyl)phenyl]...	242	C16H18O2	1000202-05-8	22
5			Stannane, chlorotriethyl-	242	C6H15ClSn	000994-31-0	22



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091036.D
Acq On : 4 Nov 2016 22:30
Operator : UM/SJ
Sample : H5526-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-99-1.0-1.5

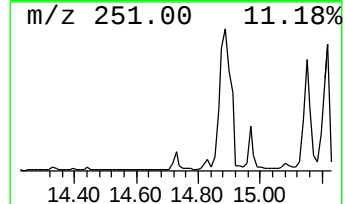
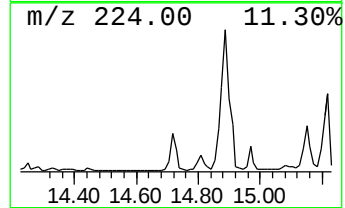
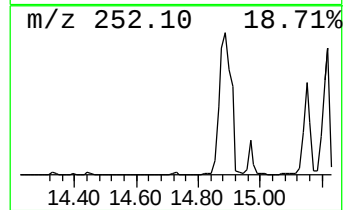
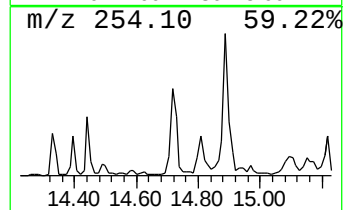
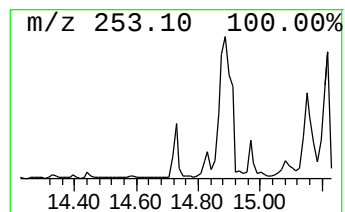
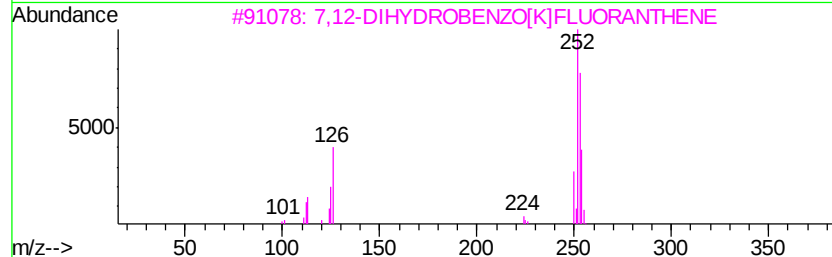
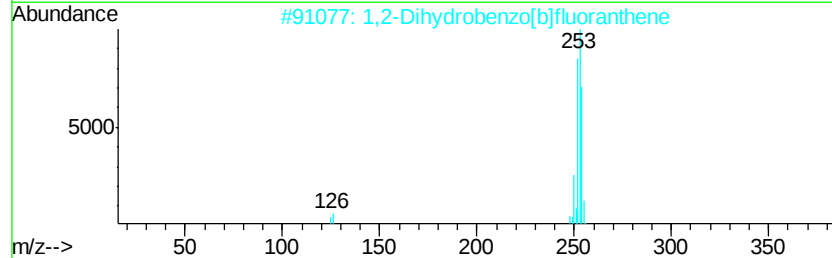
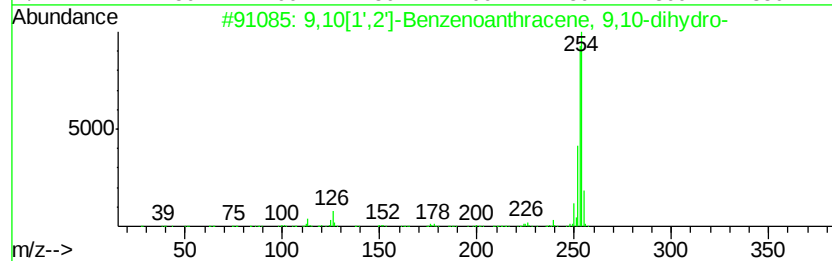
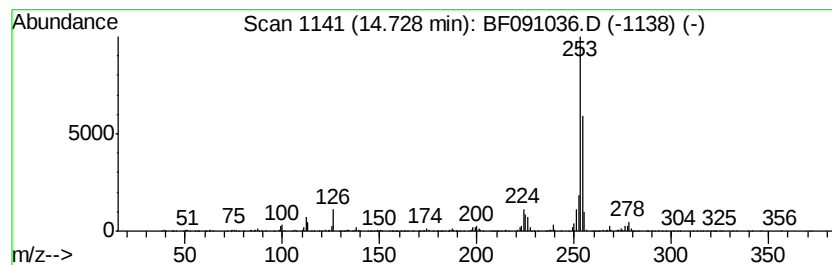
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 9,10[1',2']-Benzenoanthracene... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.73	15.67 ng	1036460	Perylene-d12	15.27

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	72
2		1,2-Dihydrobenzo[b]fluoranthene	254	C20H14	100516-13-0	64
3		7,12-DIHYDROBENZO[K]FLUORANTHENE	254	C20H14	1000080-17-7	64
4		4,5-Dihydrobenzo[e]pyrene	254	C20H14	095676-42-9	64
5		10-Oxo-5,5-dimethyl-5-sila-5,10-...	254	C14H14N2OSi	089052-45-9	59



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091036.D
Acq On : 4 Nov 2016 22:30
Operator : UM/SJ
Sample : H5526-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-99-1.0-1.5

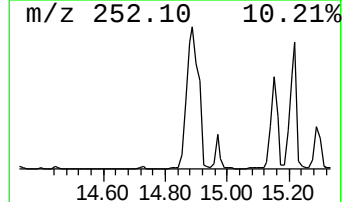
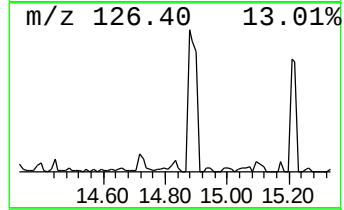
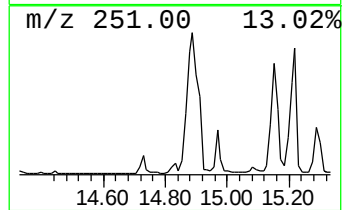
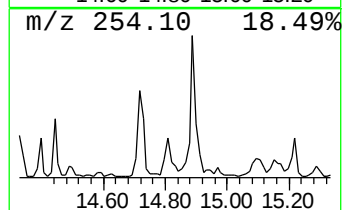
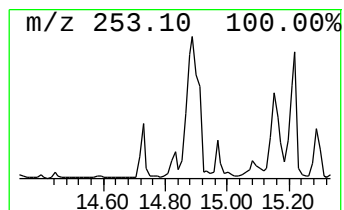
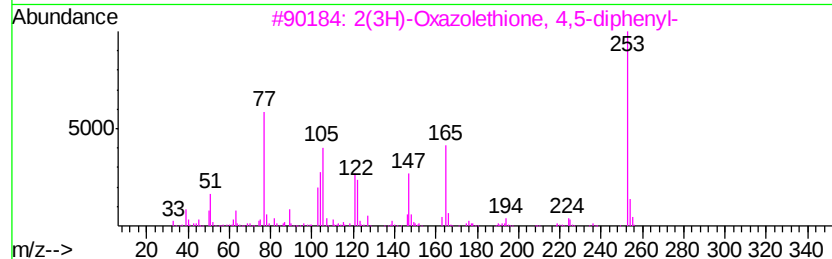
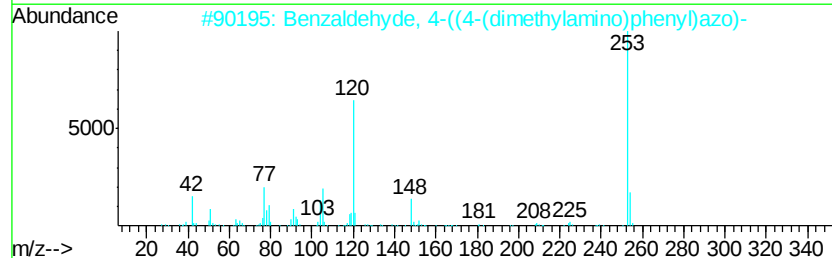
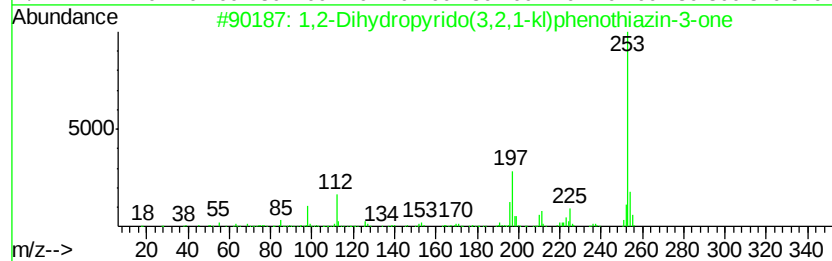
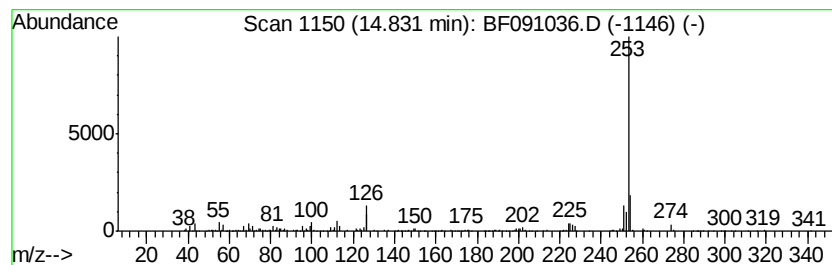
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 1,2-Dihydropyrido(3,2,1-kl)... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	6.61 ng	437077	Perylene-d12	15.27

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1,2-Dihydropyrido(3,2,1-kl)pheno...	253	C15H11NOS	069513-42-4	53
2			Benzaldehyde, 4-((4-(dimethylami...	253	C15H15N3O	039208-00-9	40
3			2(3H)-Oxazolethione, 4,5-diphenyl-	253	C15H11NOS	006670-13-9	40
4			Triamterene	253	C12H11N7	000396-01-0	40
5			Propanephosphonic acid, bis(trim...	268	C9H25O3PSi2	1000193-07-4	36



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091036.D
Acq On : 4 Nov 2016 22:30
Operator : UM/SJ
Sample : H5526-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-99-1.0-1.5

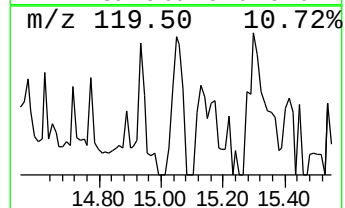
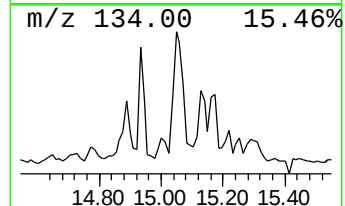
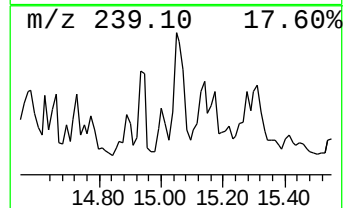
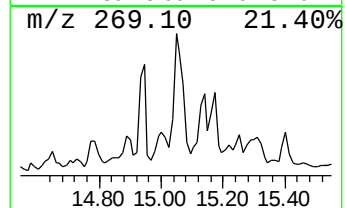
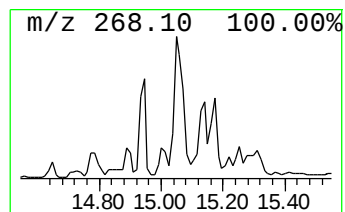
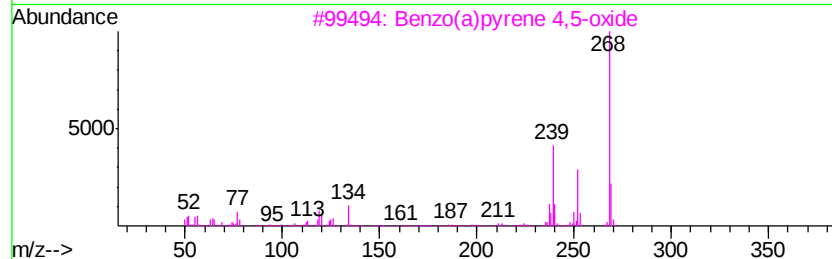
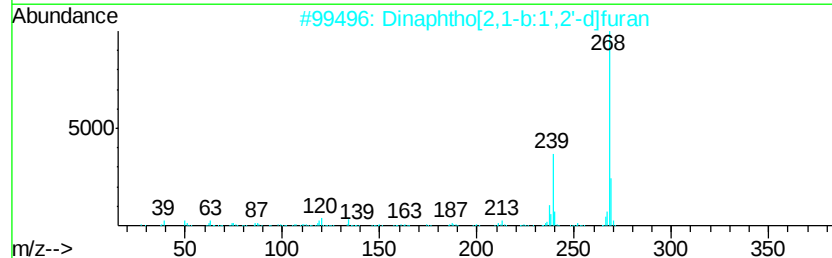
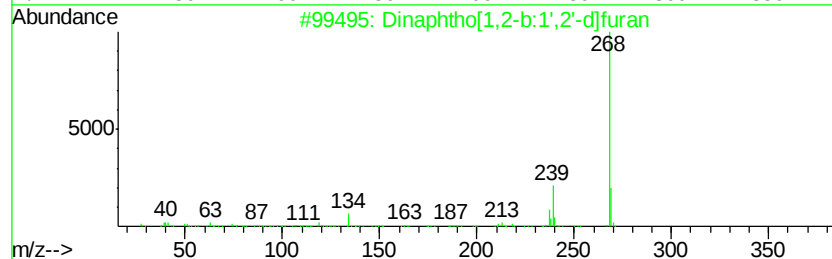
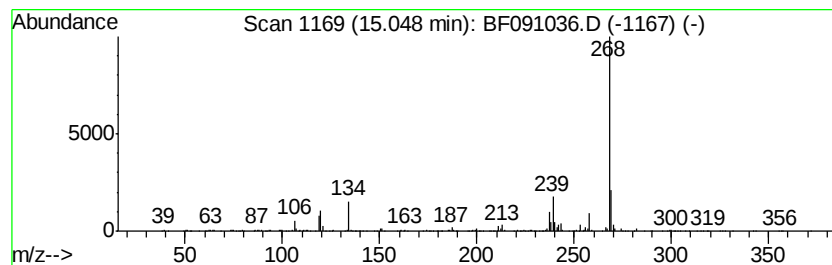
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.05	11.78 ng	778765	Perylene-d12	15.27

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	91
2		Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	90
3		Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	72
4		9,10-Anthracenedione, 1,4,5,8-te...	268	C14H12N4O2	002475-45-8	64
5		Methanone, bis[4-(dimethylamino)...	268	C17H20N2O	000090-94-8	53



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091036.D
Acq On : 4 Nov 2016 22:30
Operator : UM/SJ
Sample : H5526-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-99-1.0-1.5

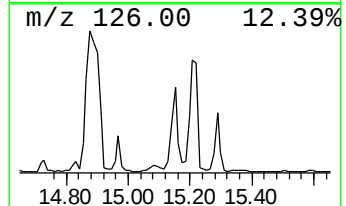
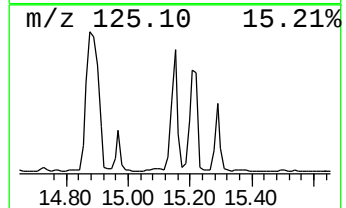
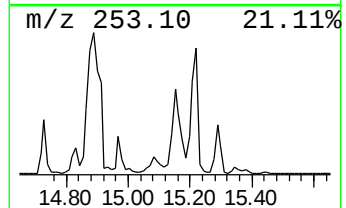
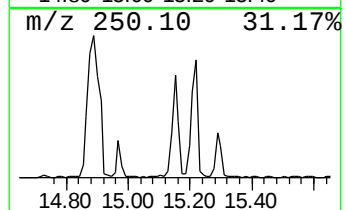
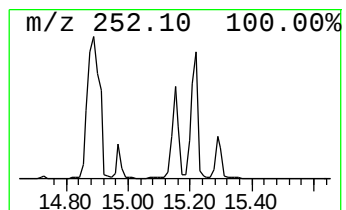
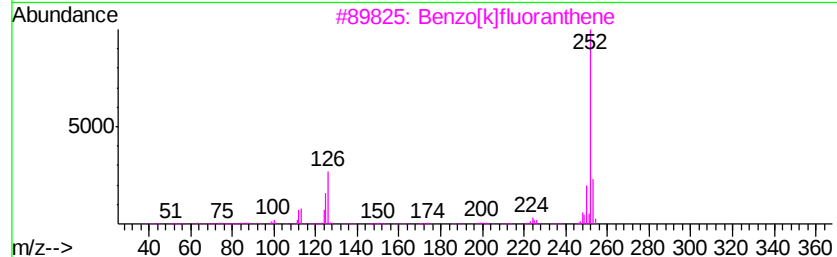
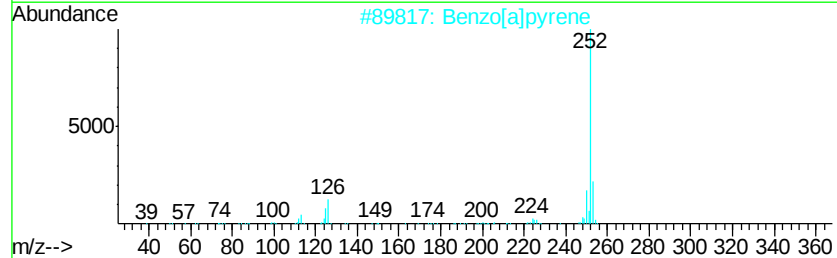
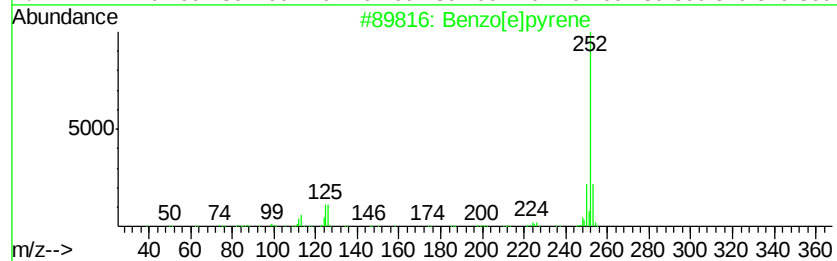
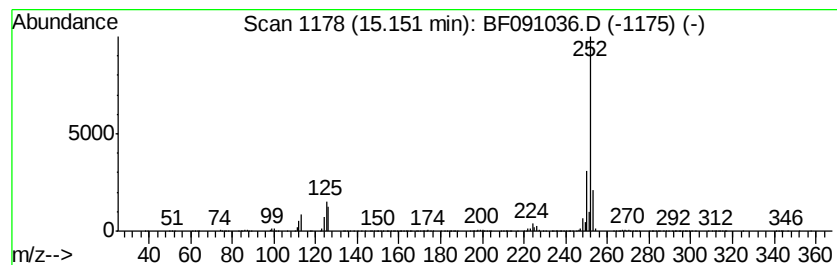
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Benzo[e]pyrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.15	74.12 ng	4902010	Perylene-d12	15.27

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	94
2		Benzo[a]pyrene	252	C20H12	000050-32-8	93
3		Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
4		Perylene	252	C20H12	000198-55-0	90
5		Benzo[j]fluoranthene	252	C20H12	000205-82-3	90



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091036.D
Acq On : 4 Nov 2016 22:30
Operator : UM/SJ
Sample : H5526-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-99-1.0-1.5

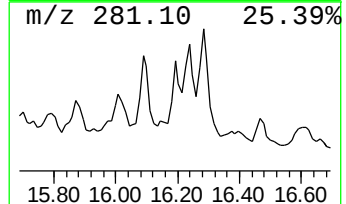
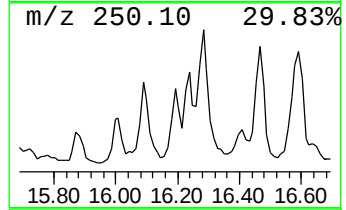
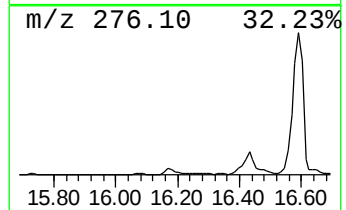
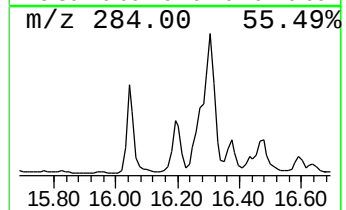
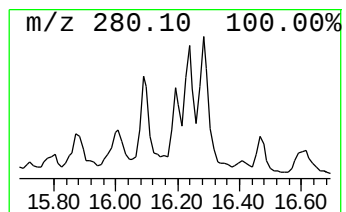
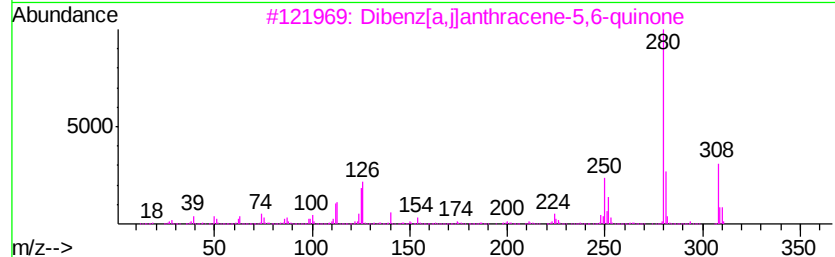
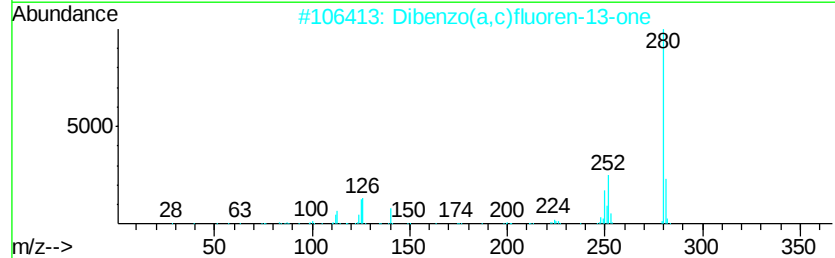
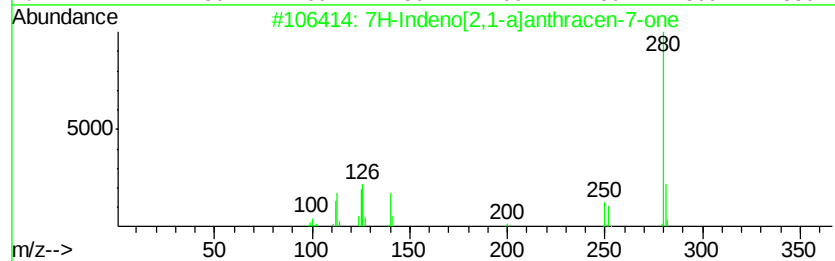
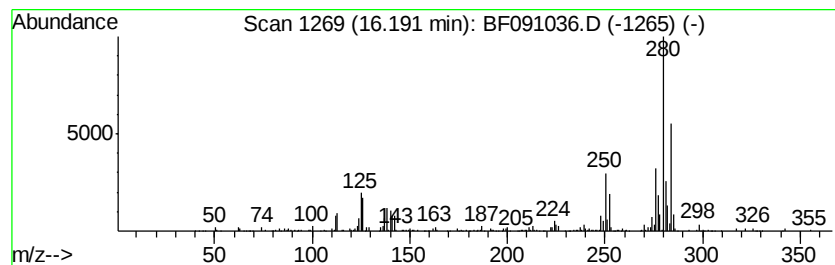
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 7H-Indeno[2,1-a]anthracen-7... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.19	6.04 ng	399198	Perylene-d12	15.27

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	7H-Indeno[2,1-a]anthracen-7-one	280	C21H12O	027582-45-2	50
2		Dibenzo(a,c)fluoren-13-one	280	C21H12O	063041-47-4	50
3		Dibenz[a,j]anthracene-5,6-quinone	308	C22H12O2	052755-66-5	49
4		Pentacene, 6,13-dihydro-	280	C22H16	013579-08-3	43
5		1H-Indene, 1-(diphenylmethylene)-	280	C22H16	013245-90-4	43



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091036.D
Acq On : 4 Nov 2016 22:30
Operator : UM/SJ
Sample : H5526-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-99-1.0-1.5

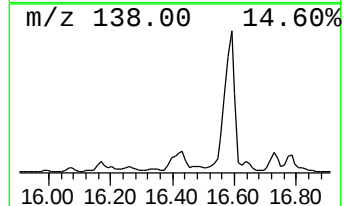
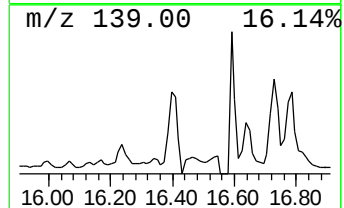
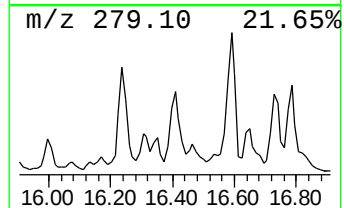
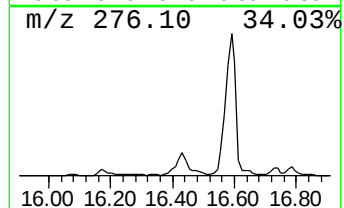
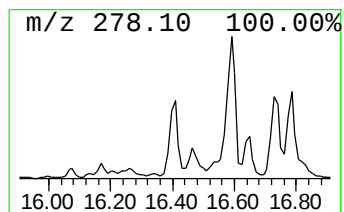
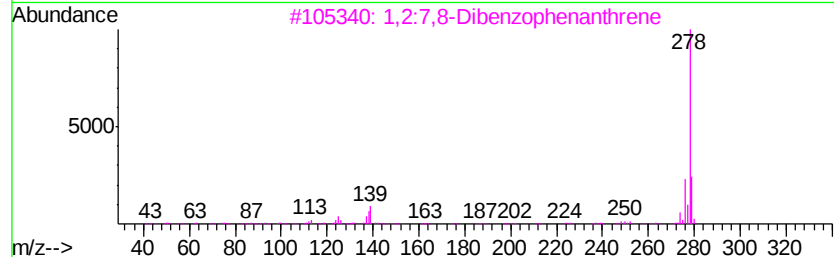
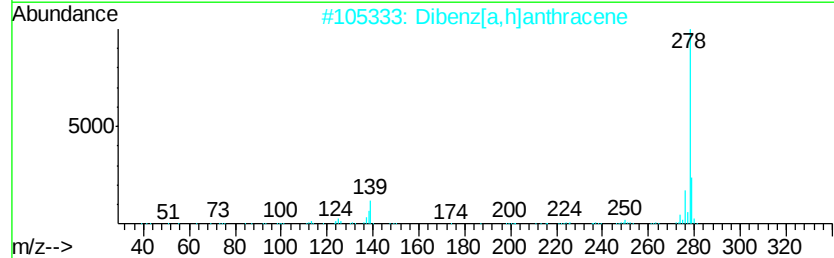
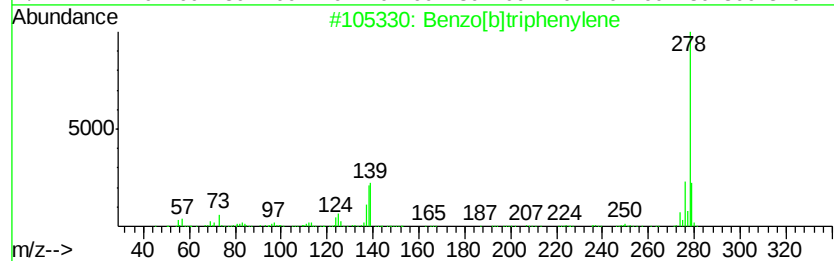
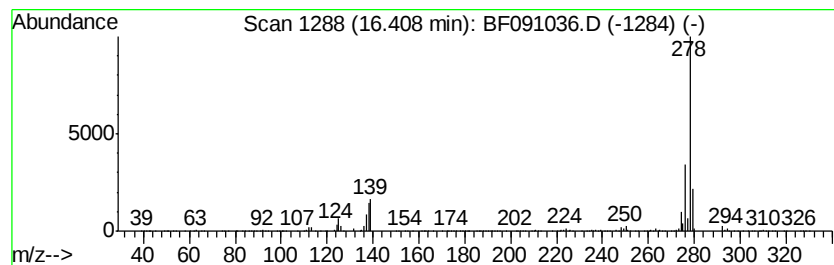
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Benzo[b]triphenylene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.41	17.69 ng	1169870	Perylene-d12	15.27

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[b]triphenylene	278	C22H14	000215-58-7	96
2		Dibenz[a,h]anthracene	278	C22H14	000053-70-3	90
3		1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	86
4		Pentacene	278	C22H14	000135-48-8	76
5		p-Bis(phenylethynyl)benzene	278	C22H14	001849-27-0	76



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091036.D
Acq On : 4 Nov 2016 22:30
Operator : UM/SJ
Sample : H5526-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-99-1.0-1.5

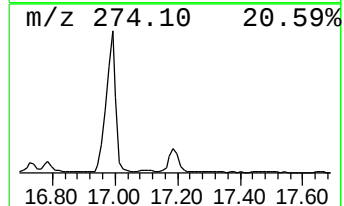
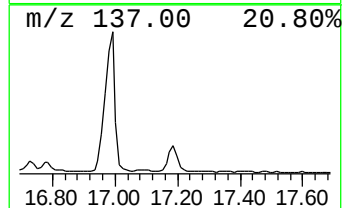
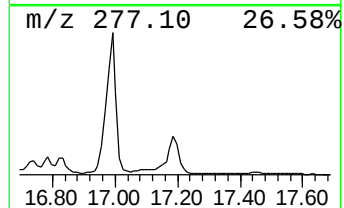
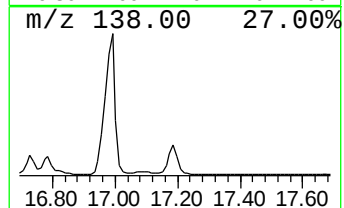
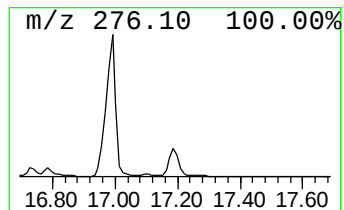
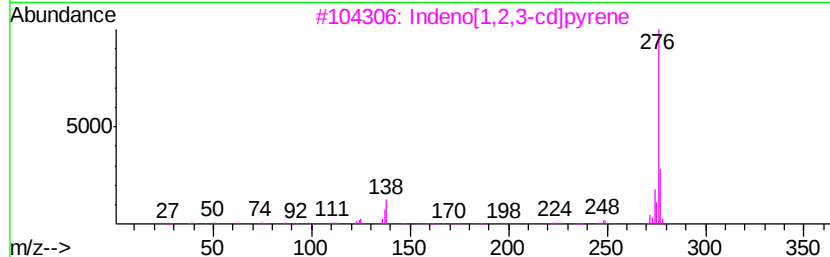
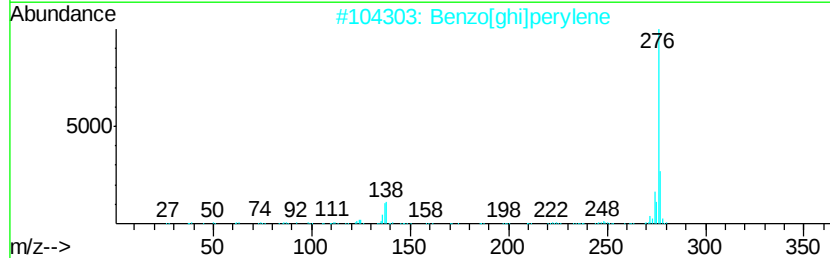
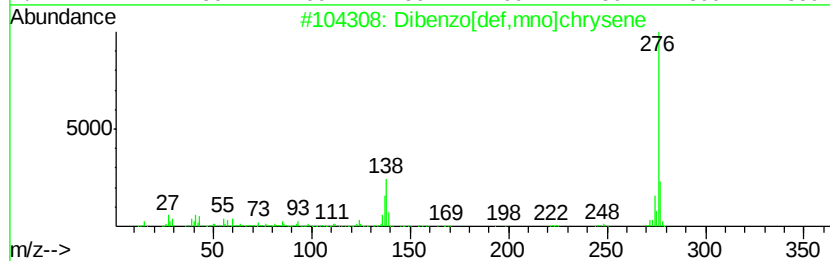
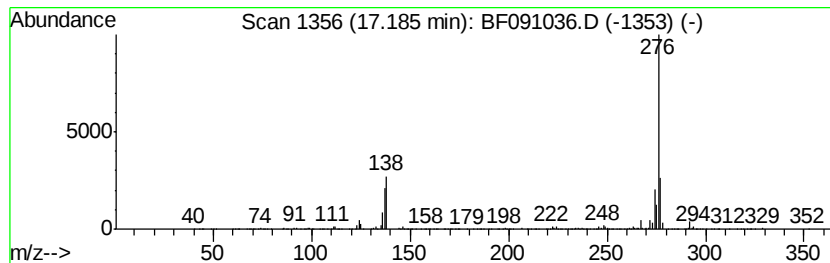
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Dibenzo[def,mno]chrysene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.19	13.55 ng	896001	Perylene-d12	15.27

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	97
2		Benzo[ghi]perylene	276	C22H12	000191-24-2	96
3		Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	93
4		Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	72
5		Naphthalen-1-yl-(3-nitro-benzyl)...	276	C17H12N2O2	200421-53-0	47



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091036.D
Acq On : 4 Nov 2016 22:30
Operator : UM/SJ
Sample : H5526-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-99-1.0-1.5

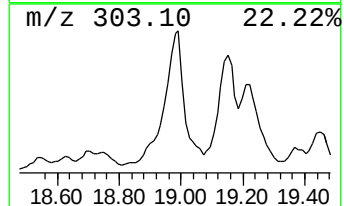
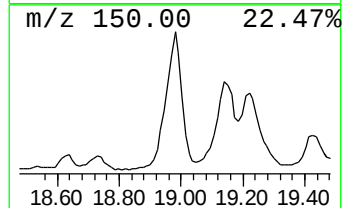
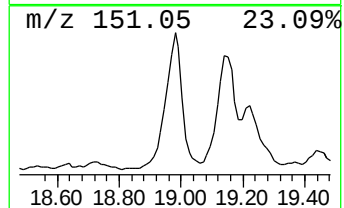
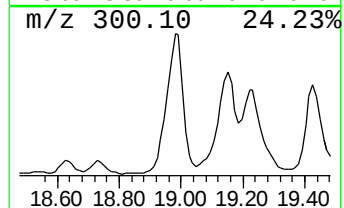
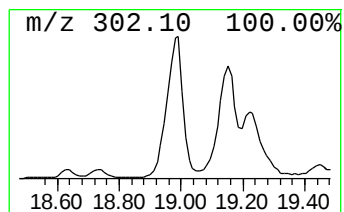
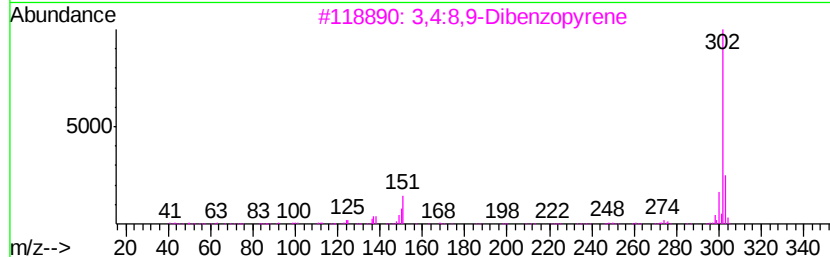
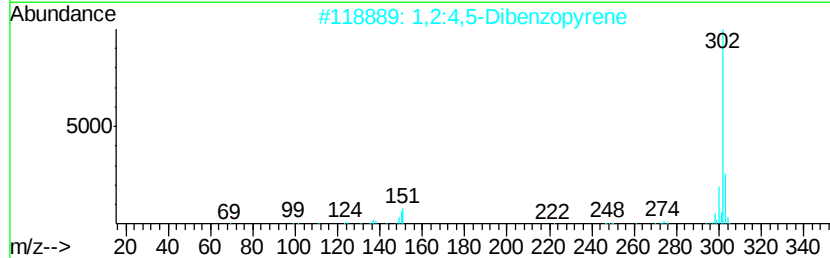
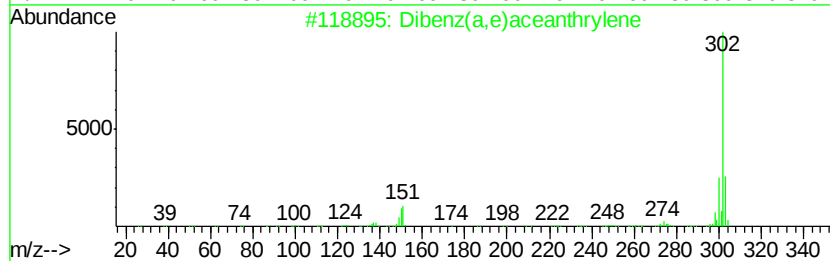
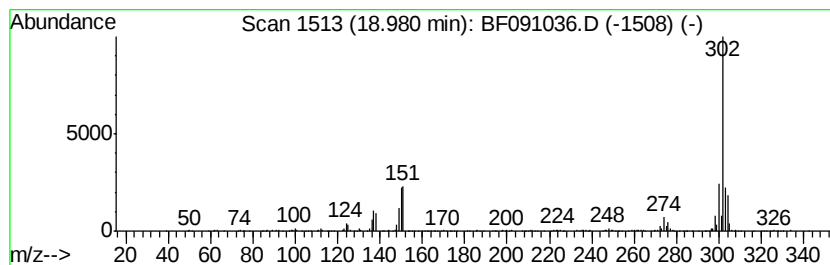
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Dibenz(a,e)aceanthrylene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.98	20.44 ng	1352070	Perylene-d12	15.27

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	96
2		1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	95
3		3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	95
4		3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	95
5		1,2:3,4-Dibenzopyrene	302	C24H14	000191-30-0	58



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
Data File : BF091036.D
Acq On : 4 Nov 2016 22:30
Operator : UM/SJ
Sample : H5526-03
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-99-1.0-1.5

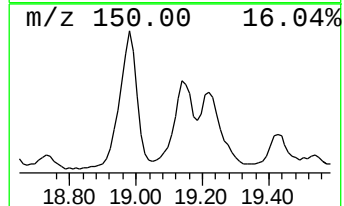
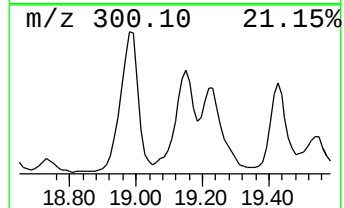
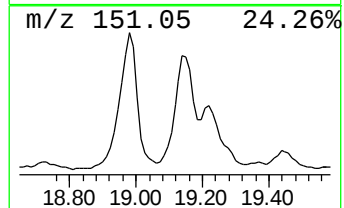
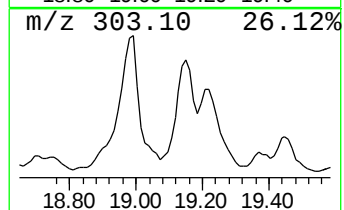
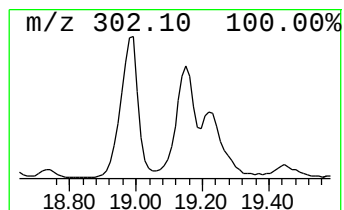
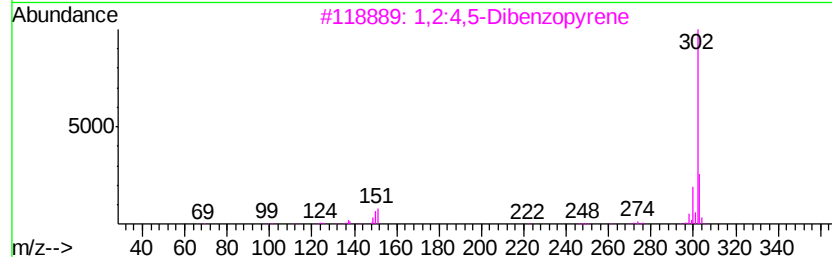
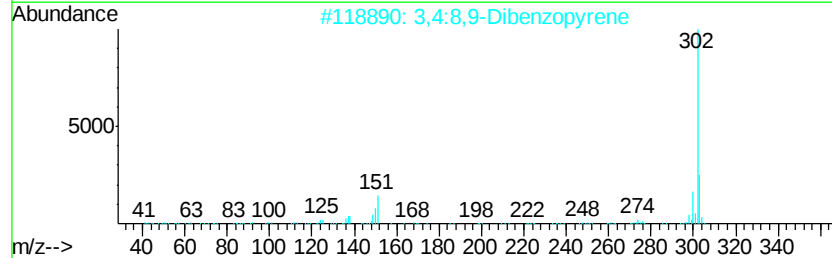
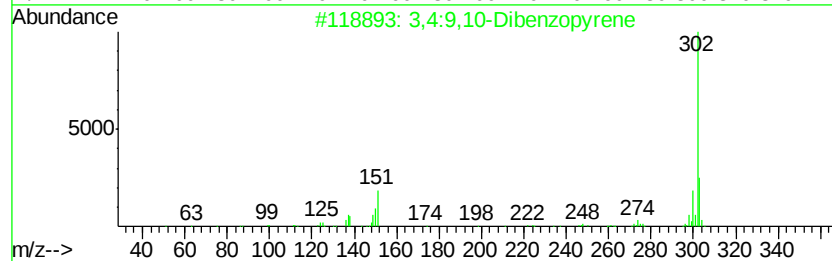
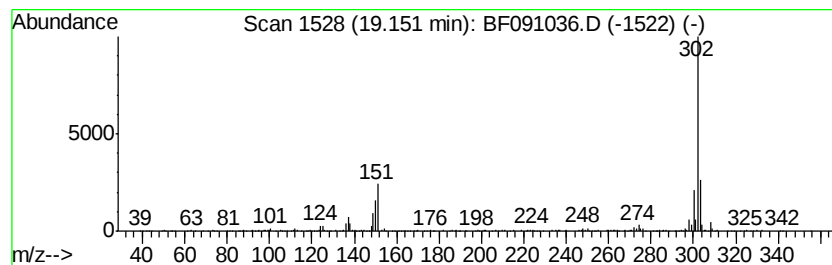
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 3,4:9,10-Dibenzopyrene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.15	13.98 ng	924618	Perylene-d12	15.27

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	99
2		3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	98
3		1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	98
4		Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	97
5		1,2:3,4-Dibenzopyrene	302	C24H14	000191-30-0	86



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF110416\
 Data File : BF091036.D
 Acq On : 4 Nov 2016 22:30
 Operator : UM/SJ
 Sample : H5526-03
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-99-1.0-1.5

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF110316.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...	4.86	23.5	ng	1538930	1	6.70	1312200	20.0
unknown6.48	6.48	90.1	ng	5910350	1	6.70	1312200	20.0
4H-Cyclopenta[def...	11.84	3.9	ng	2010090	4	11.23	10414900	20.0
Benzo[b]naphtho[2...	13.61	3.7	ng	1912430	5	13.87	10246400	20.0
unknown14.64	14.64	4.8	ng	319305	6	15.27	1322650	20.0
9,10[1',2']-Benze...	14.73	15.7	ng	1036460	6	15.27	1322650	20.0
1,2-Dihydropyrido...	14.83	6.6	ng	437077	6	15.27	1322650	20.0
Dinaphtho[1,2-b:1...	15.05	11.8	ng	778765	6	15.27	1322650	20.0
Benzo[e]pyrene	15.15	74.1	ng	4902010	6	15.27	1322650	20.0
7H-Indeno[2,1-a]a...	16.19	6.0	ng	399198	6	15.27	1322650	20.0
Benzo[b]triphenylene	16.41	17.7	ng	1169870	6	15.27	1322650	20.0
Dibenzo[def,mno]c...	17.19	13.6	ng	896001	6	15.27	1322650	20.0
Dibenz(a,e)aceant...	18.98	20.4	ng	1352070	6	15.27	1322650	20.0
3,4:9,10-Dibenzop...	19.15	14.0	ng	924618	6	15.27	1322650	20.0