

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
 Data File : BF079608.D
 Acq On : 30 May 2015 17:45
 Operator : TP/IZ
 Sample : G2420-16
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PENRD8.8(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-BF052615.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	1.553	30	32	39	rVV	316901	659589	6.48%	1.953%
2	1.655	39	41	71	rVB	3776867	10173583	100.00%	30.125%
3	5.210	349	352	362	rBV	810721	1229834	12.09%	3.642%
4	6.536	466	468	476	rBV	1125509	1292167	12.70%	3.826%
5	6.650	476	478	481	rBV	1326768	1334227	13.11%	3.951%
6	6.936	500	503	505	rBV	369809	374594	3.68%	1.109%
7	7.119	516	519	522	rBV	1099264	1023117	10.06%	3.030%
8	7.633	562	564	567	rBV	856769	800456	7.87%	2.370%
9	8.513	639	641	642	rBV	494991	500438	4.92%	1.482%
10	9.862	757	759	761	rVB	1219914	1470616	14.46%	4.355%
11	10.365	801	803	805	rBV	82381	120366	1.18%	0.356%
12	10.673	823	830	832	rBV	607688	604897	5.95%	1.791%
13	11.656	913	916	918	rBV	855903	1042603	10.25%	3.087%
14	12.502	988	990	992	rBV	438202	695280	6.83%	2.059%
15	12.537	992	993	995	rVV	820167	650720	6.40%	1.927%
16	12.605	995	999	1001	rVB	104991	155324	1.53%	0.460%
17	12.811	1016	1017	1020	rBV	74030	105563	1.04%	0.313%
18	13.165	1047	1048	1051	rVV	96851	121930	1.20%	0.361%
19	13.268	1051	1057	1058	rVV2	131862	219904	2.16%	0.651%
20	14.011	1119	1122	1124	rBV	1013865	1165754	11.46%	3.452%
21	14.285	1143	1146	1148	rVV	953020	1100977	10.82%	3.260%
22	14.502	1162	1165	1167	rVV	1639456	1707164	16.78%	5.055%
23	14.708	1177	1183	1186	rBV2	86702	235722	2.32%	0.698%
24	14.834	1191	1194	1199	rVV2	74277	170468	1.68%	0.505%
25	15.234	1223	1229	1232	rBV6	39435	123793	1.22%	0.367%
26	15.337	1236	1238	1241	rVB	120998	156393	1.54%	0.463%
27	15.463	1247	1249	1251	rBV	100265	147931	1.45%	0.438%
28	15.508	1251	1253	1256	rVV2	69076	161223	1.58%	0.477%
29	15.600	1259	1261	1263	rVB	127954	137070	1.35%	0.406%
30	15.680	1265	1268	1272	rBV	180811	267582	2.63%	0.792%
31	15.771	1272	1276	1278	rVV2	749858	1399440	13.76%	4.144%
32	15.805	1278	1279	1281	rVV	412756	552228	5.43%	1.635%
33	16.080	1301	1303	1310	rBV4	67980	142851	1.40%	0.423%
34	16.274	1317	1320	1322	rBV	78644	112754	1.11%	0.334%

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Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

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Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	16.480	1336	1338	1340	rVV3	73800	108150	1.06%	0.320%
36	16.857	1369	1371	1374	rBV2	63867	121446	1.19%	0.360%
37	17.040	1384	1387	1393	rBV	542216	1110767	10.92%	3.289%
38	17.154	1395	1397	1399	rVB	94426	106210	1.04%	0.315%
39	17.348	1412	1414	1417	rVB	284816	353361	3.47%	1.046%
40	17.406	1417	1419	1422	rBV	389450	454052	4.46%	1.345%
41	17.463	1422	1424	1426	rBV	481787	659229	6.48%	1.952%
42	18.743	1533	1536	1541	rBV2	211660	407819	4.01%	1.208%
43	19.109	1566	1568	1573	rVB	159490	293152	2.88%	0.868%

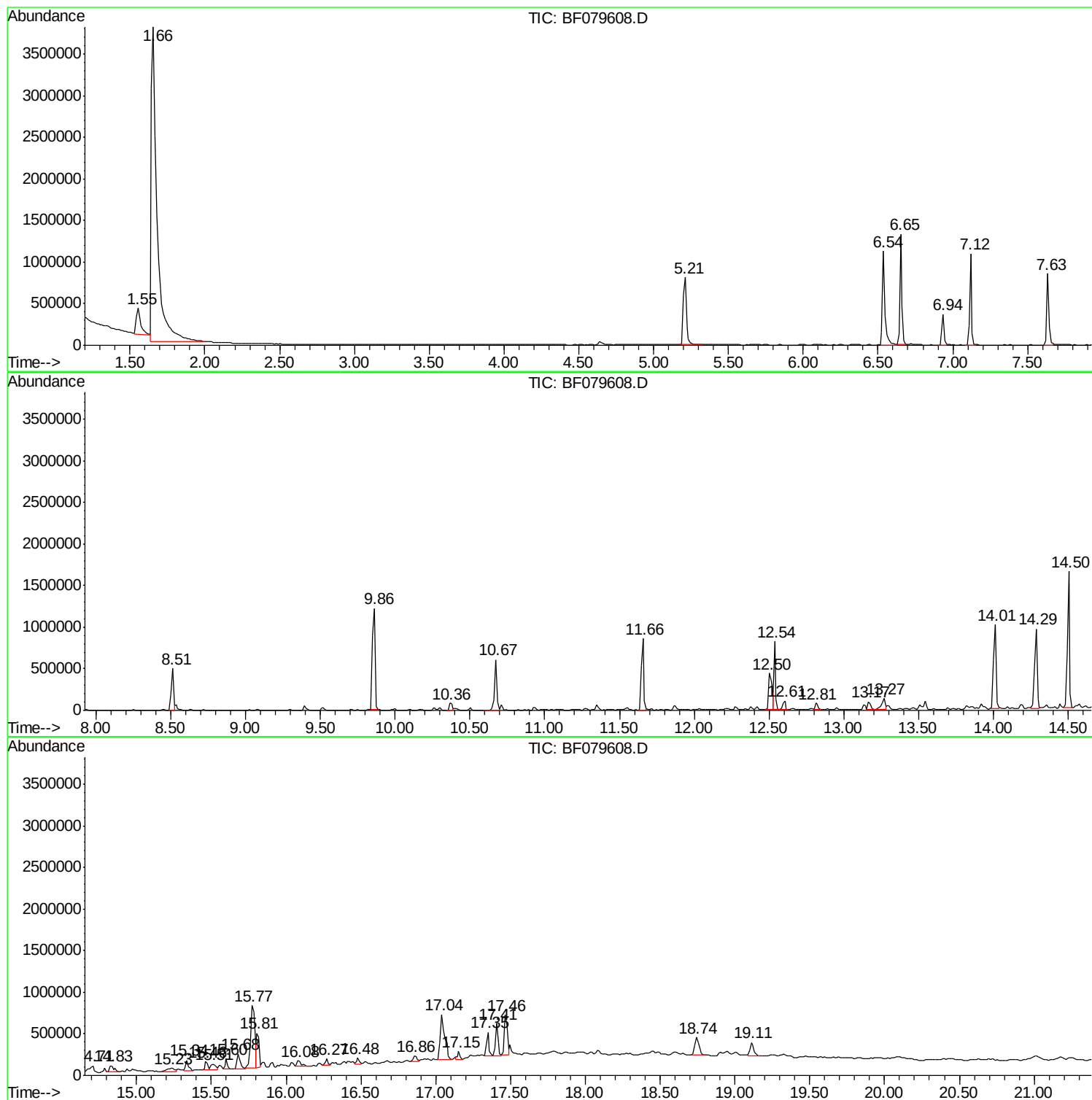
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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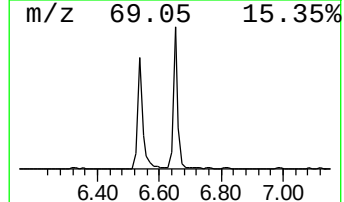
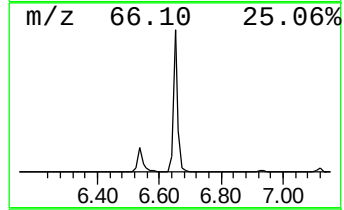
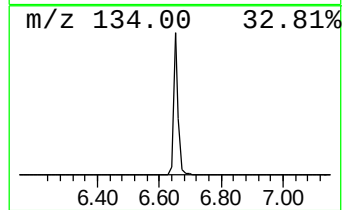
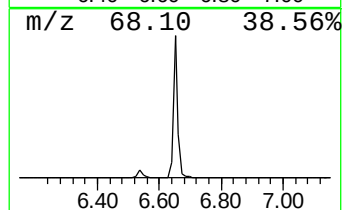
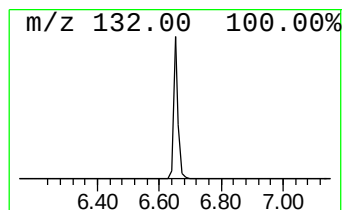
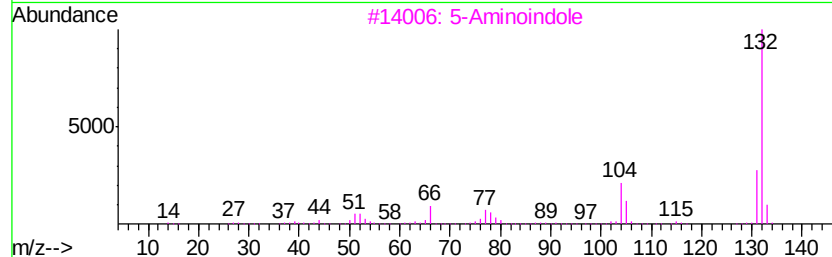
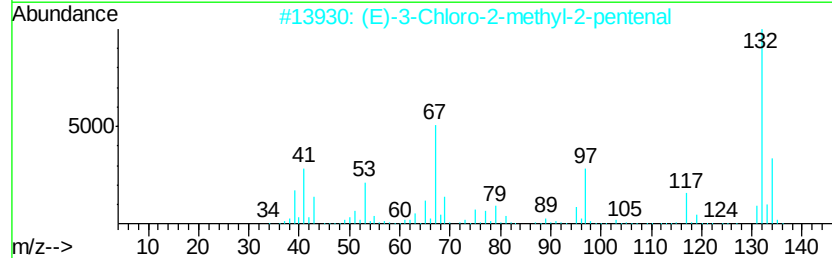
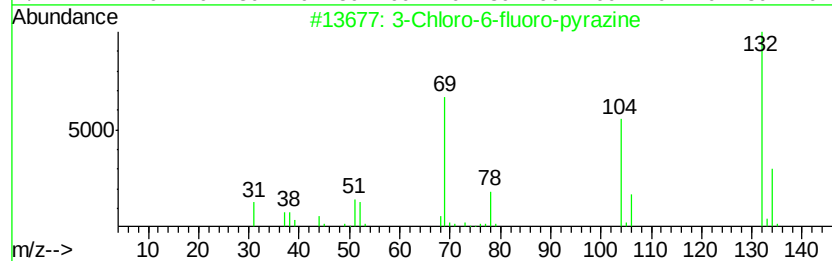
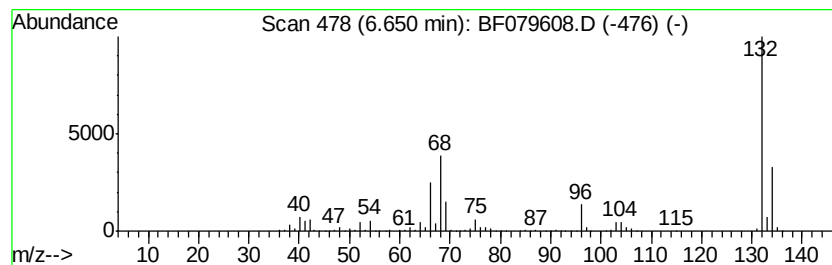
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 unknown6.65 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.65	71.24 ng	1334230	1,4-Dichlorobenzene-d4	6.94

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	16
3		5-Aminoindole	132	C8H8N2	005192-03-0	12
4		Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
5		5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9



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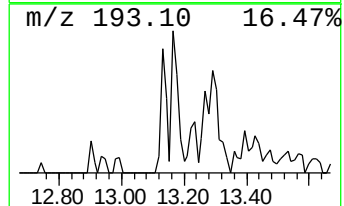
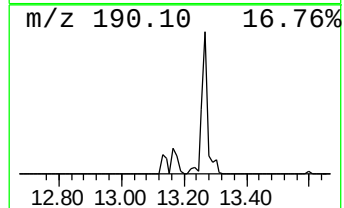
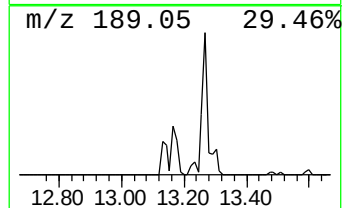
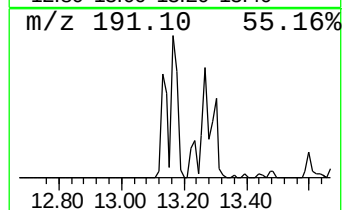
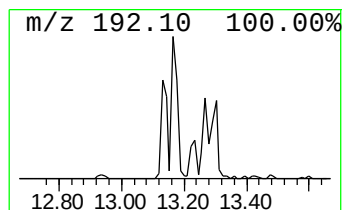
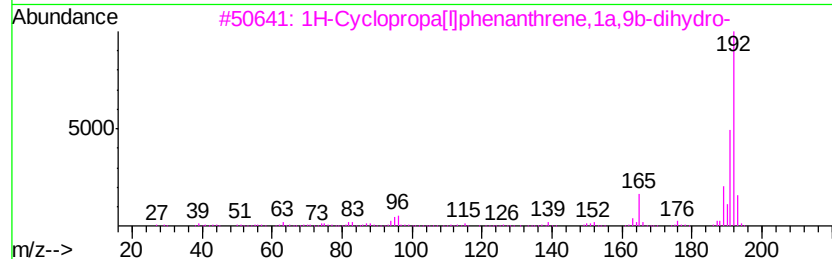
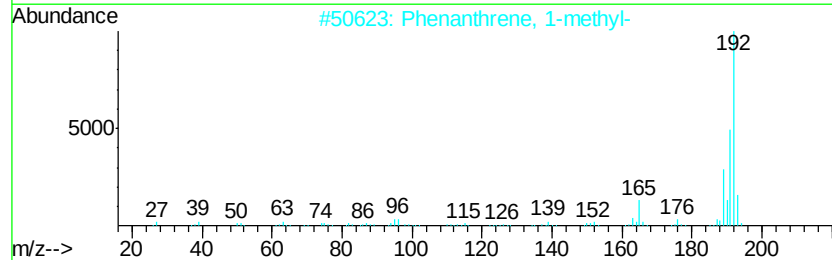
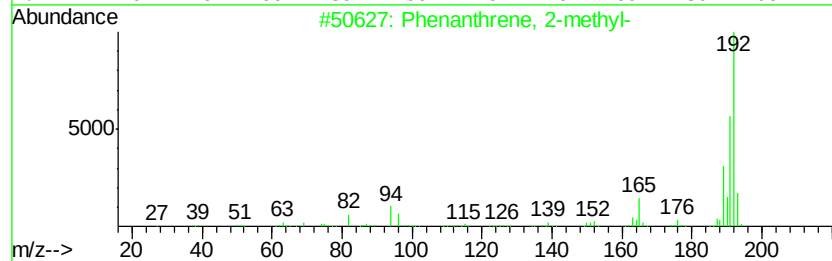
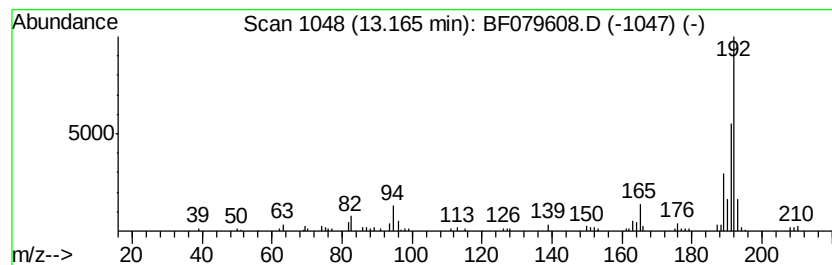
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Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.17	3.51 ng	121930	Phenanthrene-d10	12.50

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3		1H-Cyclopropa[l]phenanthrene, 1a, ...	192	C15H12	000949-41-7	94
4		Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
5		1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	93



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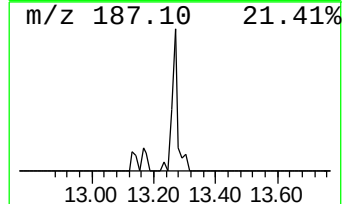
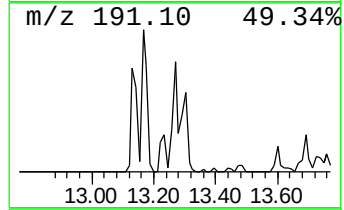
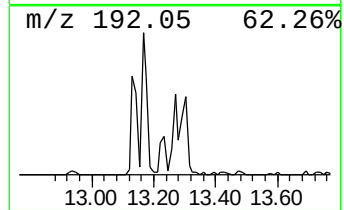
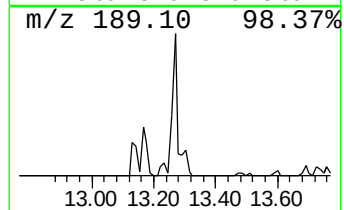
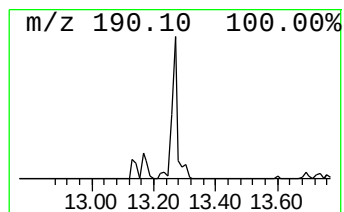
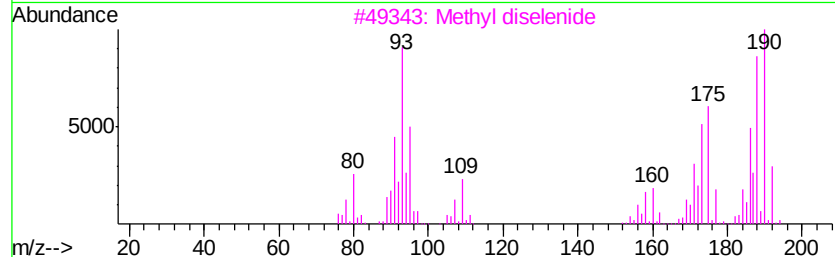
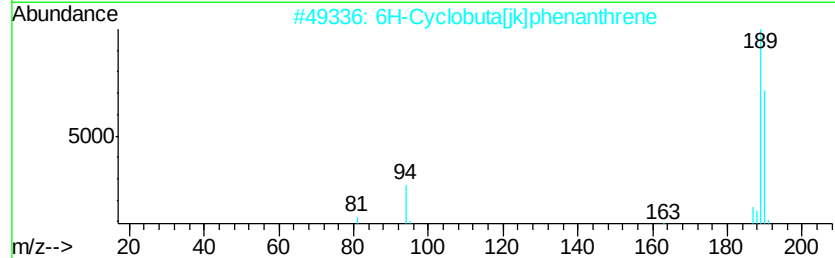
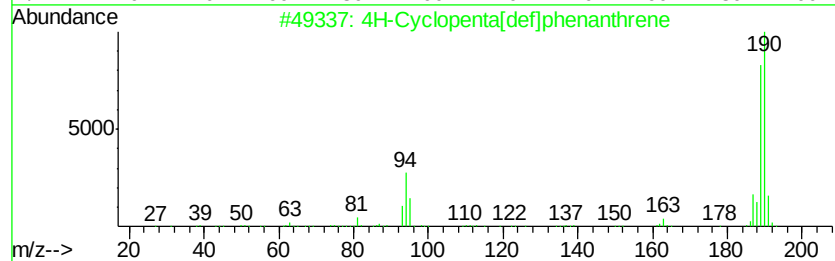
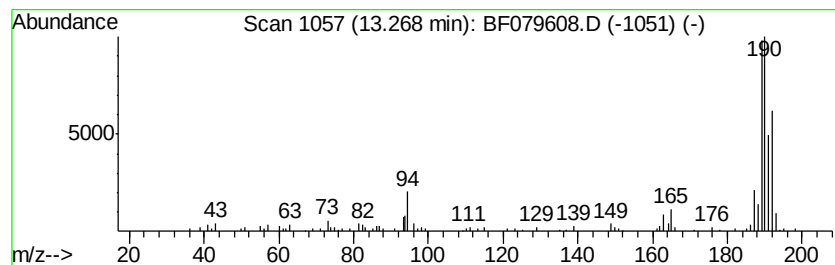
Instrument :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.	
13.27	6.33 ng	219904	Phenanthrene-d10	12.50	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	86
2	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	58
3	Methyl diselenide	190	C2H6Se2	007101-31-7	45
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	25
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	25



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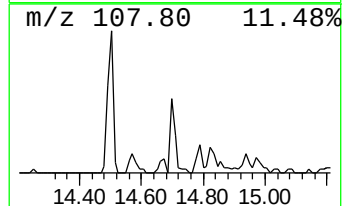
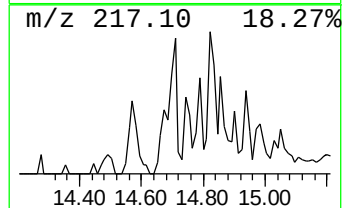
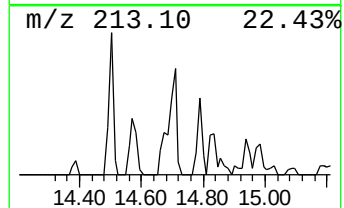
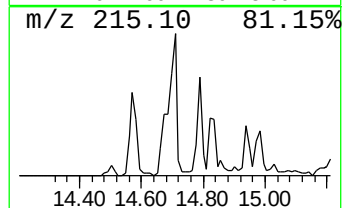
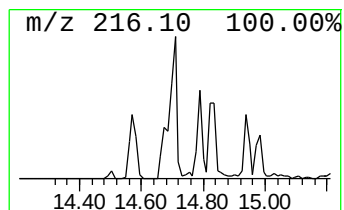
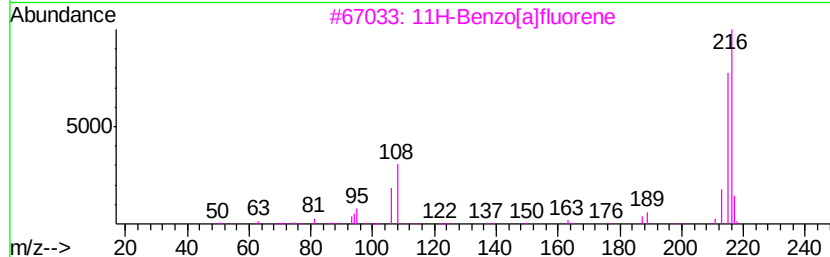
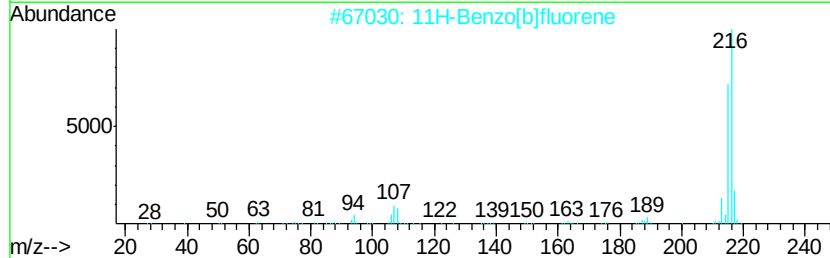
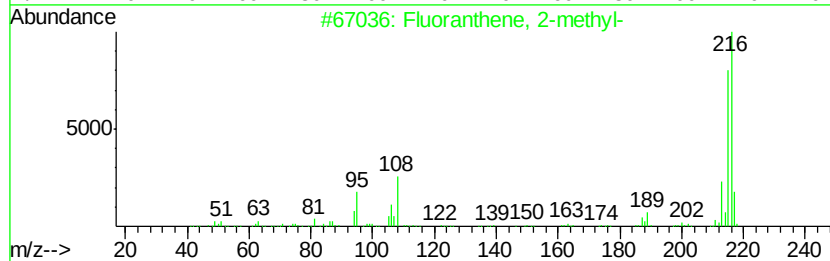
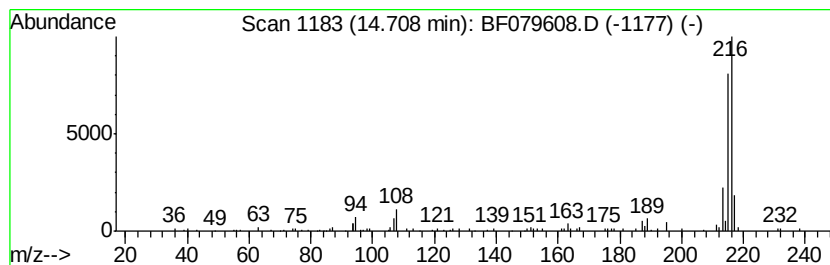
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.71	3.37 ng	235722	Chrysene-d12	15.78

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
2		11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
3		11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90
4		Pyrene, 1-methyl-	216	C17H12	002381-21-7	86
5		7H-Benzo[c]fluorene	216	C17H12	000205-12-9	72



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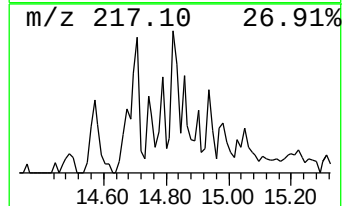
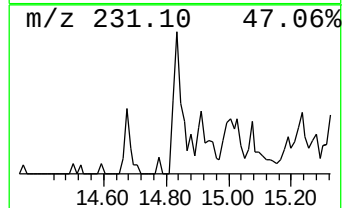
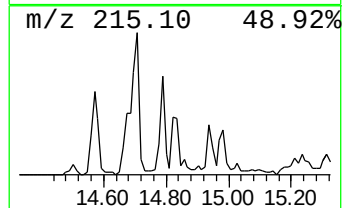
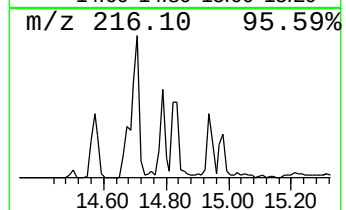
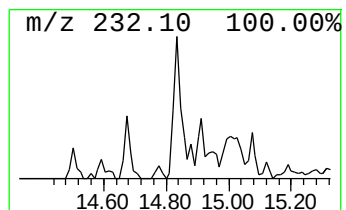
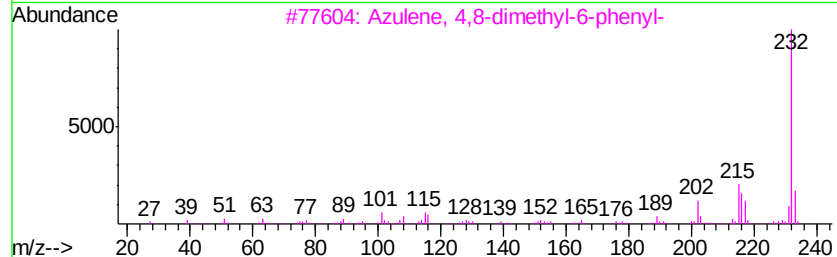
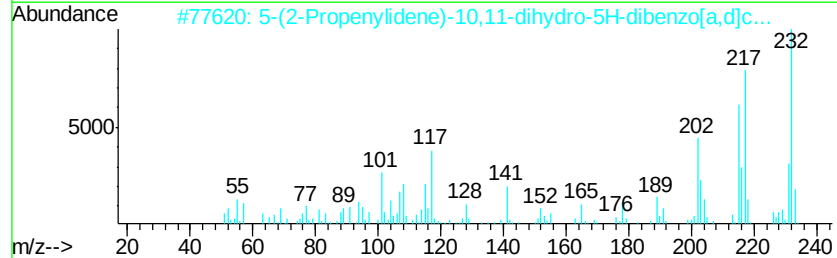
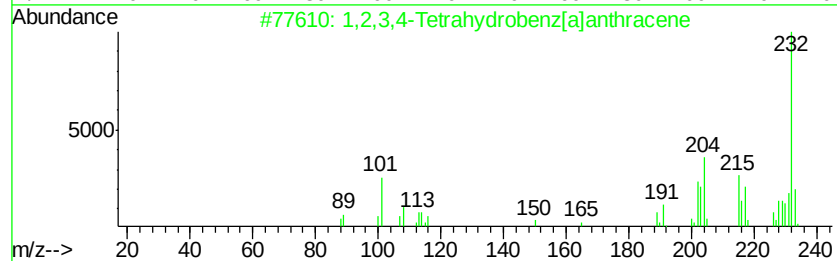
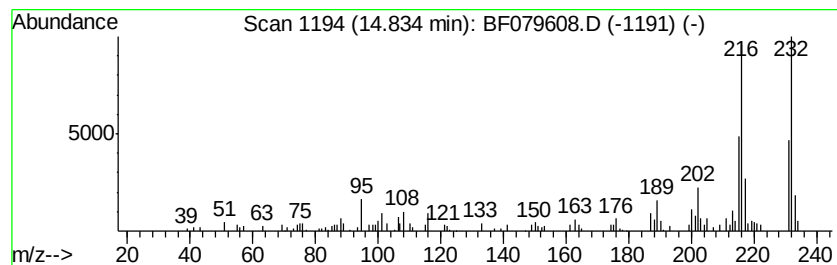
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TIC Library : C:\DATABASE\NIST02.L
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Peak Number 8 unknown14.83 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	2.44 ng	170468	Chrysene-d12	15.78

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,2,3,4-Tetrahydrobenz[a]anthracene	232	C18H16	004483-98-1	49
2		5-(2-Propenylidene)-10,11-dihydr...	232	C18H16	024755-73-5	47
3		Azulene, 4,8-dimethyl-6-phenyl-	232	C18H16	042758-88-3	46
4		1-Pyrenemethanol	232	C17H12O	024463-15-8	43
5		Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	38



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
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Acq On : 30 May 2015 17:45
Operator : TP/IZ
Sample : G2420-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

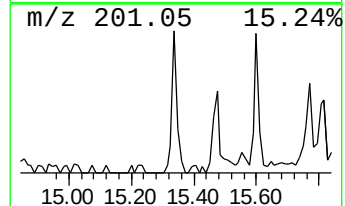
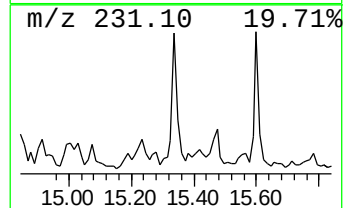
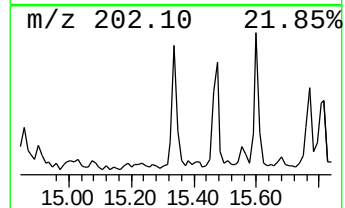
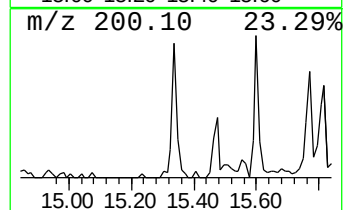
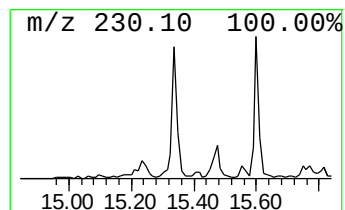
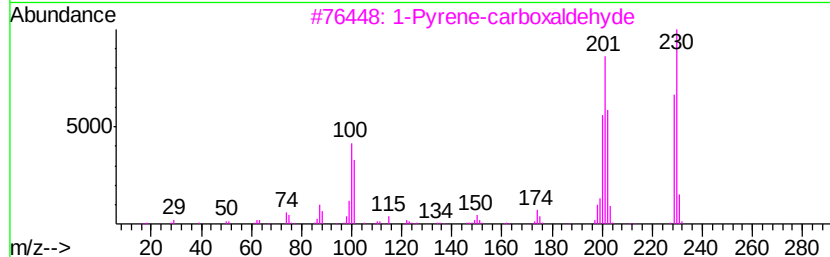
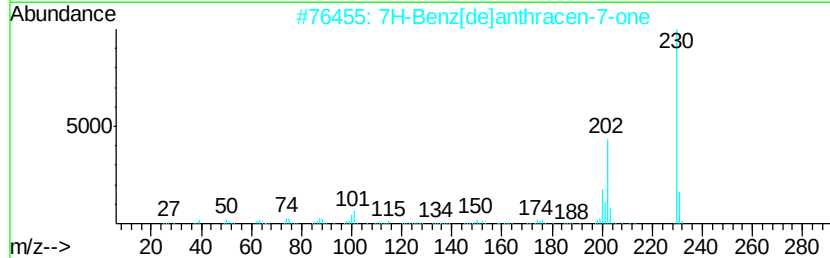
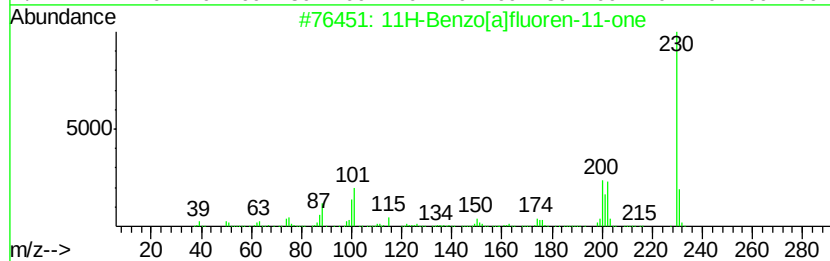
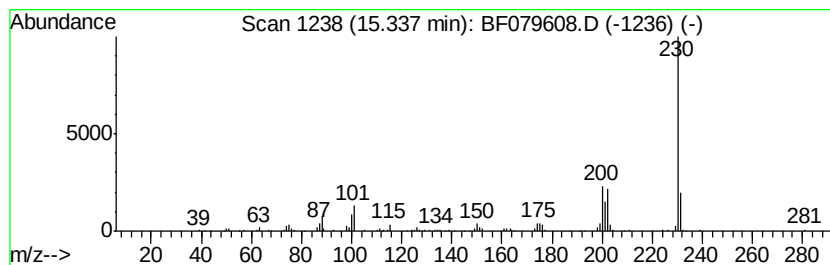
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 11H-Benzo[a]fluoren-11-one Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD		R.T.		
15.34	2.24 ng	156393	Chrysene-d12		15.78		
Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	95
2			7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	87
3			1-Pyrene-carboxaldehyde	230	C17H10O	003029-19-4	72
4			o-Terphenyl	230	C18H14	000084-15-1	50
5			p-Terphenyl	230	C18H14	000092-94-4	47



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
Data File : BF079608.D
Acq On : 30 May 2015 17:45
Operator : TP/IZ
Sample : G2420-16
Misc :
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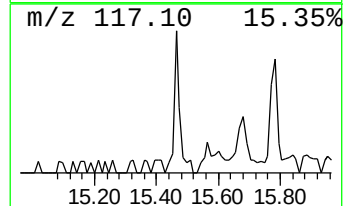
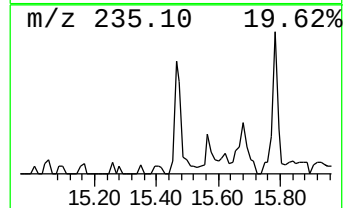
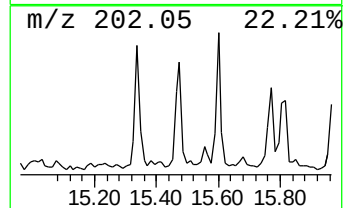
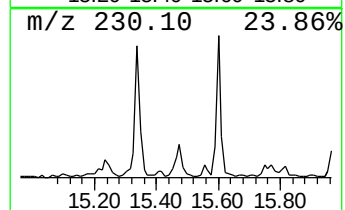
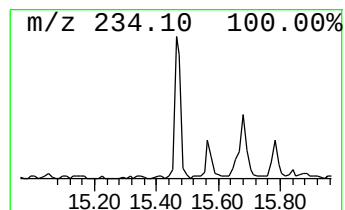
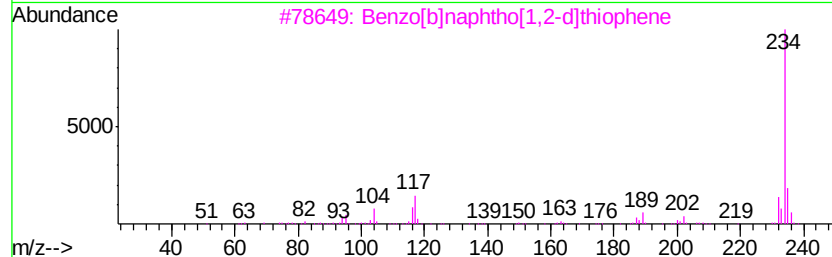
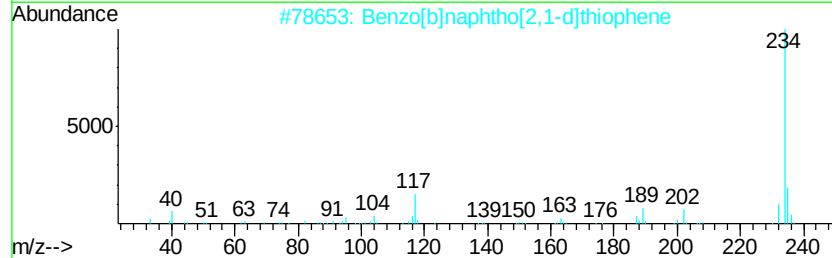
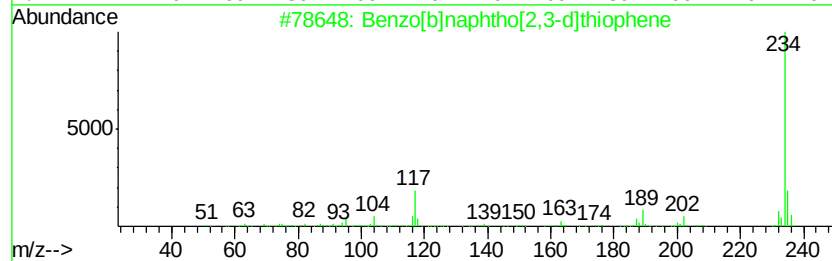
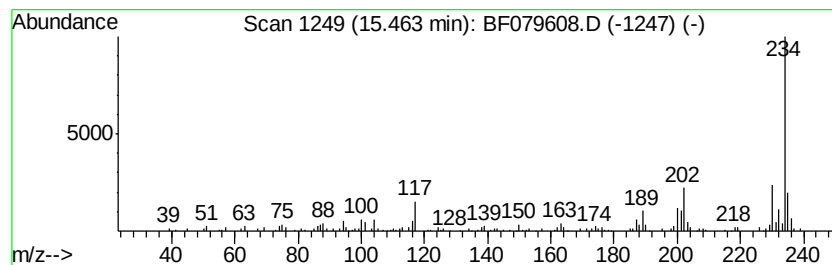
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD		R.T.		
15.46	2.11 ng	147931	Chrysene-d12		15.78		
Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	86
2			Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	86
3			Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	52
4			Quinoxalino[2,3-b]quinoxaline, 5...	234	C14H10N4	000531-46-4	47
5			Anthra[1,9a,9-cd;5,10a,10-c'd']d...	234	C14H6N2O2	000201-91-2	46



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
Data File : BF079608.D
Acq On : 30 May 2015 17:45
Operator : TP/IZ
Sample : G2420-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PENRD8.8(5)

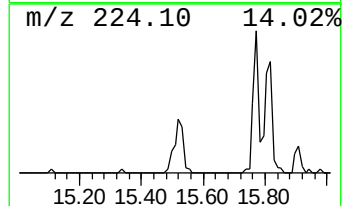
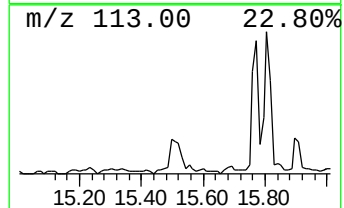
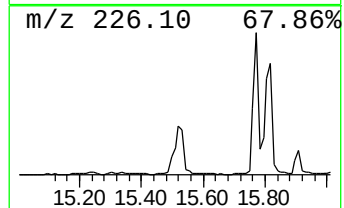
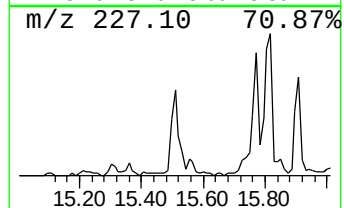
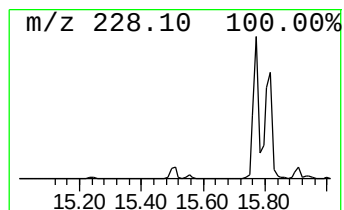
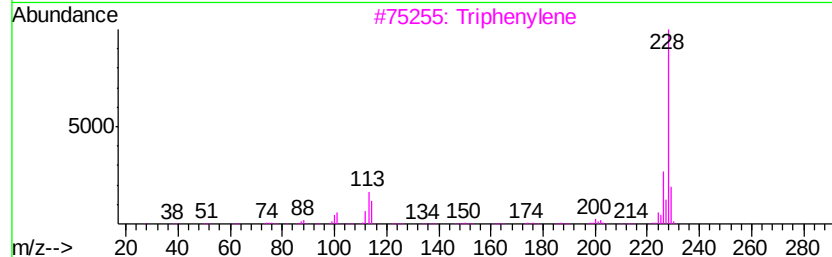
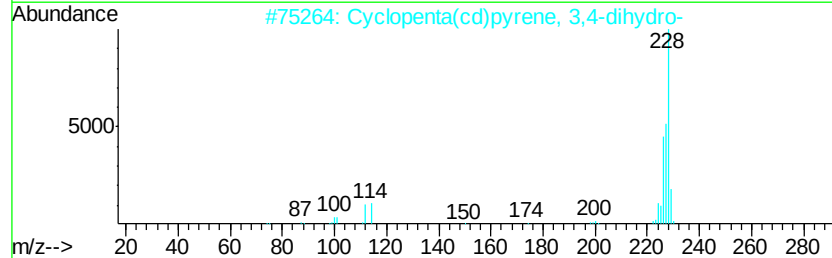
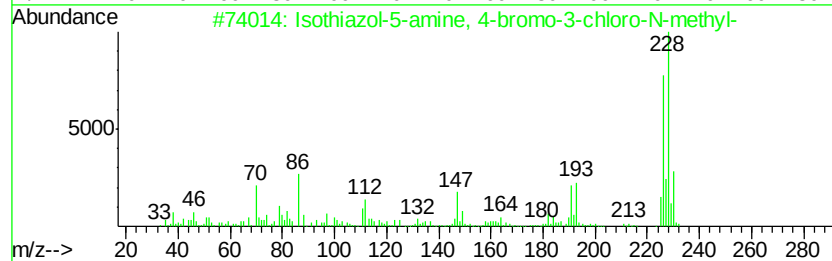
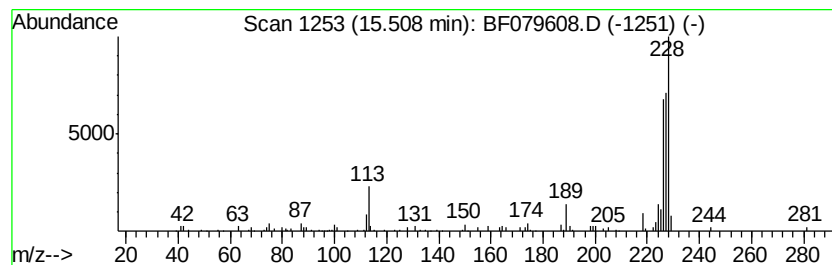
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 unknown15.51 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.51	2.30 ng	161223	Chrysene-d12	15.78

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Isothiazol-5-amine, 4-bromo-3-ch...	226	C4H4BrClN2S	1000272-59-9	49
2		Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	49
3		Triphenylene	228	C18H12	000217-59-4	32
4		3-Bromo-7-methylbenzo(b)thiophene	226	C9H7BrS	001500-71-6	28
5		8-Chloro-1-methylphenazine	228	C13H9ClN2	029453-82-5	25



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
Data File : BF079608.D
Acq On : 30 May 2015 17:45
Operator : TP/IZ
Sample : G2420-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

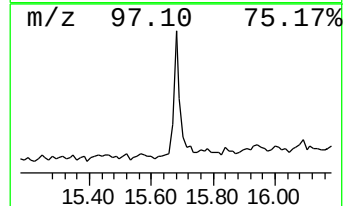
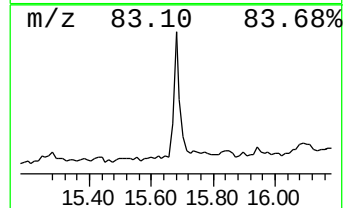
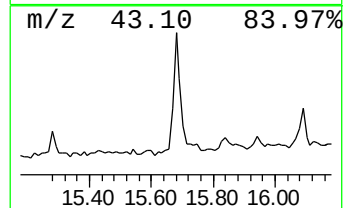
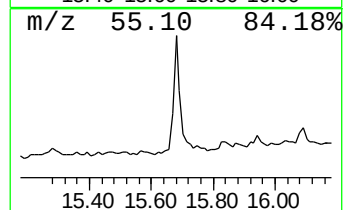
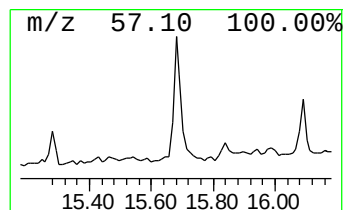
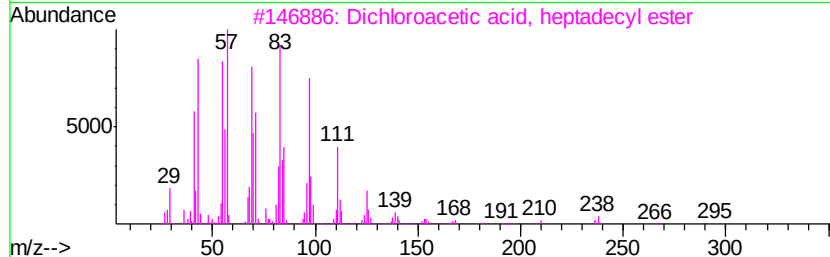
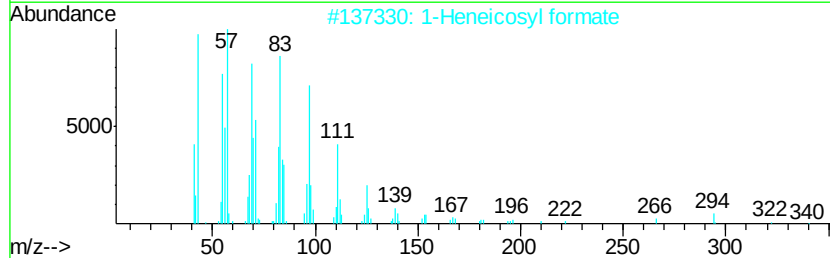
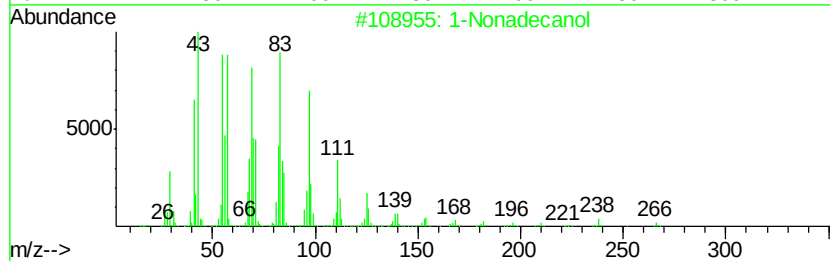
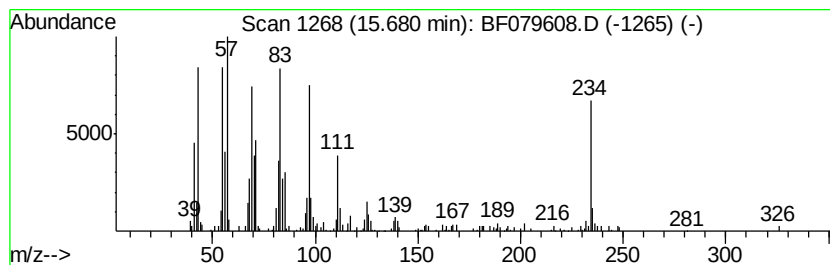
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ClientSampleId :
PENRD8.8(5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 1-Nonadecanol Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.68	3.82 ng	267582	Chrysene-d12	15.78
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	1-Nonadecanol	284 C19H40O	001454-84-8	93
2	1-Heneicosyl formate	340 C22H44O2	077899-03-7	93
3	Dichloroacetic acid, heptadecyl ...	366 C19H36Cl2O2	1000282-98-2	93
4	Acetic acid, chloro-, hexadecyl ...	318 C18H35ClO2	052132-58-8	93
5	2- Chloropropionic acid, pentade...	318 C18H35ClO2	1000292-44-1	91



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
Data File : BF079608.D
Acq On : 30 May 2015 17:45
Operator : TP/IZ
Sample : G2420-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

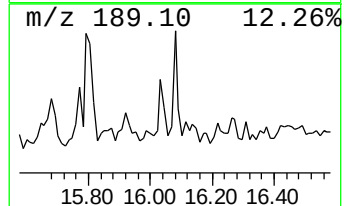
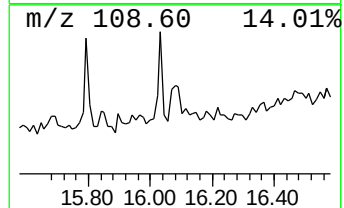
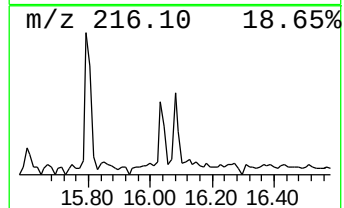
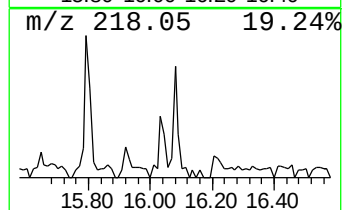
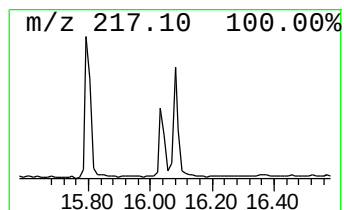
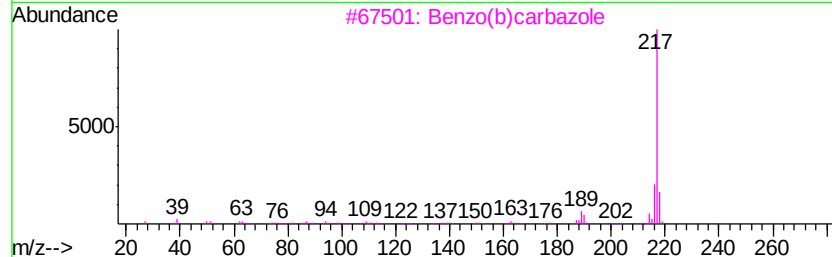
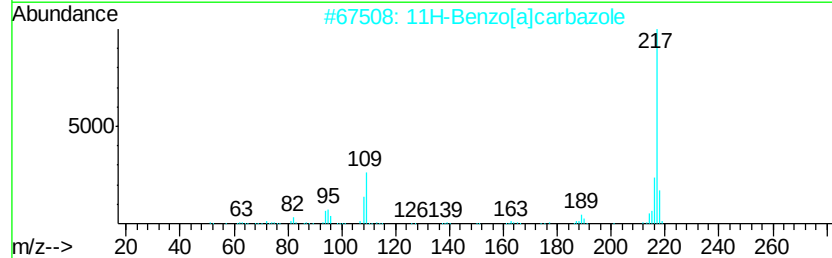
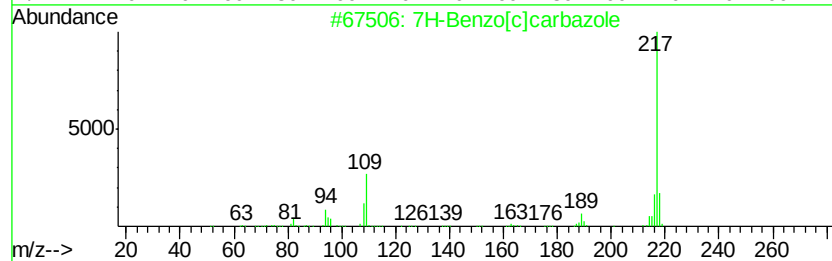
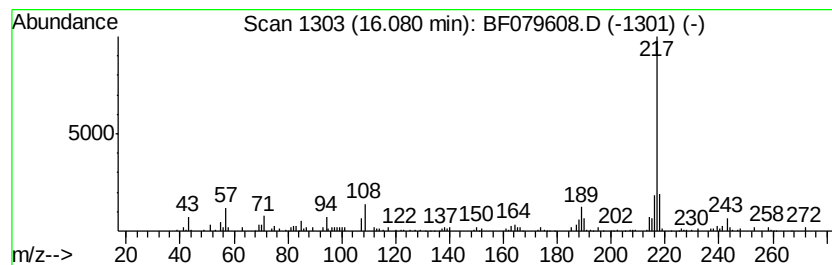
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 7H-Benzo[c]carbazole Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.08	2.04 ng	142851	Chrysene-d12	15.78
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		7H-Benzo[c]carbazole	217 C16H11N	000205-25-4 90
2		11H-Benzo[a]carbazole	217 C16H11N	000239-01-0 90
3		Benzo(b)carbazole	217 C16H11N	000243-28-7 87
4		Benzo(c)carbazole	217 C16H11N	034777-33-8 81
5		1-Aminopyrene	217 C16H11N	001606-67-3 81



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
Data File : BF079608.D
Acq On : 30 May 2015 17:45
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Sample : G2420-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PENRD8.8(5)

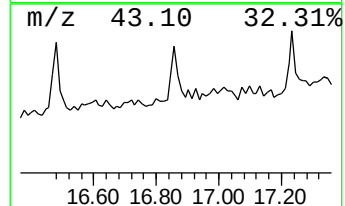
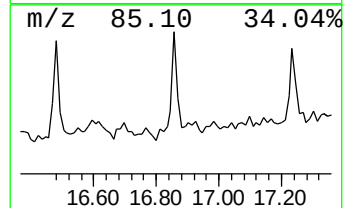
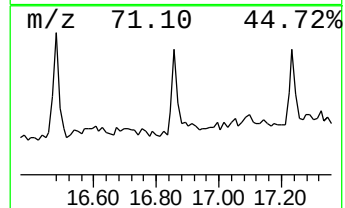
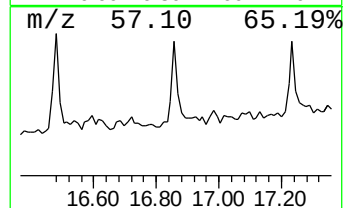
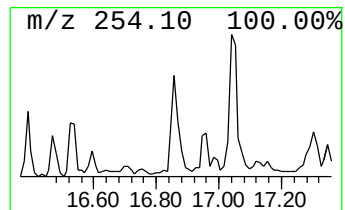
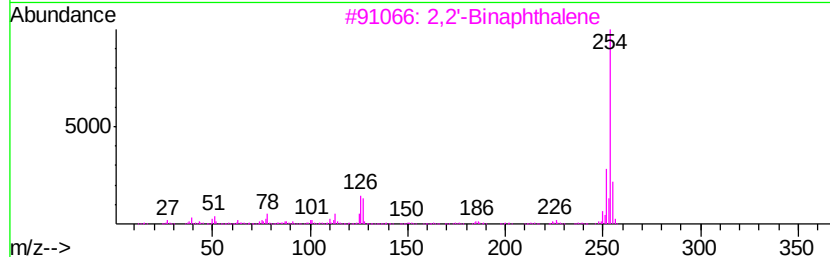
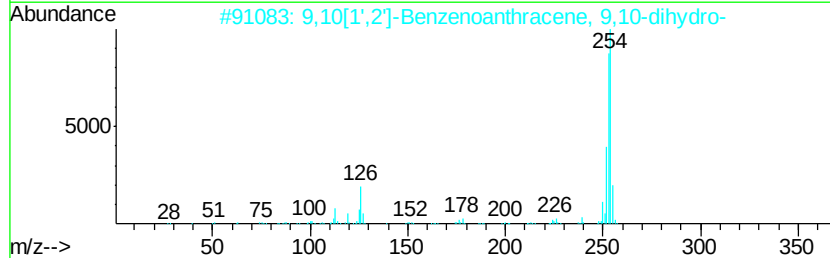
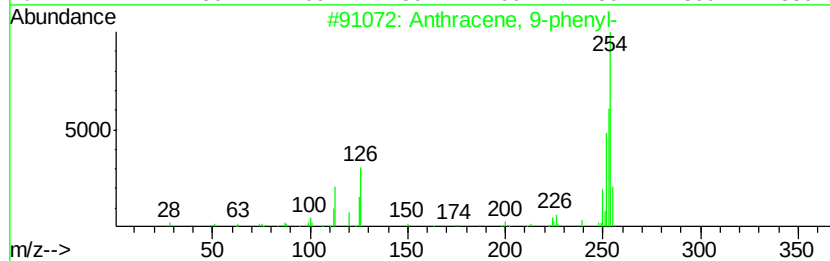
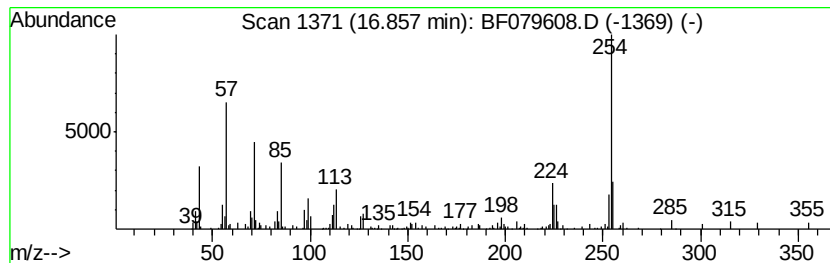
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 unknown16.86 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.86	3.68 ng	121446	Perylene-d12	17.46

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	46
2		9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	38
3		2,2'-Binaphthalene	254	C20H14	000612-78-2	38
4		5,8-Dimethoxy-1,4-dihydro-2,3-qu...	254	C10H10N2O2S2	001790-96-1	38
5		1,2'-Binaphthalene	254	C20H14	004325-74-0	38



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF053015\
Data File : BF079608.D
Acq On : 30 May 2015 17:45
Operator : TP/IZ
Sample : G2420-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PENRD8.8(5)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF052615.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
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Phenanthrene, 2-m...	13.17	3.5	ng	121930	4	12.50	695280	20.0
4H-Cyclopenta[def...	13.27	6.3	ng	219904	4	12.50	695280	20.0
Fluoranthene, 2-m...	14.71	3.4	ng	235722	5	15.78	1399440	20.0
unknown14.83	14.83	2.4	ng	170468	5	15.78	1399440	20.0
11H-Benzo[a]fluor...	15.34	2.2	ng	156393	5	15.78	1399440	20.0
Benzo[b]naphtho[2...	15.46	2.1	ng	147931	5	15.78	1399440	20.0
unknown15.51	15.51	2.3	ng	161223	5	15.78	1399440	20.0
1-Nonadecanol	15.68	3.8	ng	267582	5	15.78	1399440	20.0
7H-Benzo[c]carbazole	16.08	2.0	ng	142851	5	15.78	1399440	20.0
unknown16.86	16.86	3.7	ng	121446	6	17.46	659229	20.0