

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101715\
 Data File : BF082348.D
 Acq On : 17 Oct 2015 2:59
 Operator : UM/IZ
 Sample : G4016-12 10X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-13

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

Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101015.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	6.960	420	422	425	rBV	330654	294384	6.85%	0.644%
2	8.240	532	534	539	rBV2	517428	502880	11.71%	1.101%
3	9.646	655	657	658	rBV	91882	91331	2.13%	0.200%
4	9.852	673	675	677	rBV	465976	394689	9.19%	0.864%
5	9.989	685	687	689	rVV	623780	533531	12.42%	1.168%
6	10.023	689	690	692	rVB	104534	78880	1.84%	0.173%
7	10.195	703	705	707	rBV	233628	229401	5.34%	0.502%
8	10.389	720	722	725	rBV2	45553	81227	1.89%	0.178%
9	10.538	733	735	738	rVB	284976	290855	6.77%	0.637%
10	10.686	746	748	750	rVB	77269	105138	2.45%	0.230%
11	10.778	753	756	758	rBV	168503	225464	5.25%	0.493%
12	10.892	763	766	770	rBV3	77733	113825	2.65%	0.249%
13	11.086	780	783	784	rBV3	83571	119352	2.78%	0.261%
14	11.212	791	794	795	rBV	109334	124726	2.90%	0.273%
15	11.281	798	800	802	rVV	570655	594476	13.84%	1.301%
16	11.326	802	804	806	rVV	81541	117818	2.74%	0.258%
17	11.372	806	808	811	rVB	319804	303414	7.06%	0.664%
18	11.509	815	820	822	rBV2	3601452	4295051	100.00%	9.399%
19	11.555	822	824	826	rVV	959251	890601	20.74%	1.949%
20	11.658	829	833	835	rVB3	72859	105556	2.46%	0.231%
21	11.715	835	838	840	rBV2	422219	627835	14.62%	1.374%
22	11.806	845	846	848	rVV2	170034	186081	4.33%	0.407%
23	11.886	848	853	856	rVB2	86090	181297	4.22%	0.397%
24	11.978	858	861	862	rBV	590231	540682	12.59%	1.183%
25	12.012	862	864	865	rVB	516430	661106	15.39%	1.447%
26	12.058	865	868	869	rBV2	151455	184688	4.30%	0.404%
27	12.092	869	871	875	rVB2	552577	917063	21.35%	2.007%
28	12.161	875	877	878	rBV	107510	115899	2.70%	0.254%
29	12.275	883	887	888	rBV	337159	356434	8.30%	0.780%
30	12.298	888	889	892	rVB	260856	344489	8.02%	0.754%
31	12.424	897	900	901	rBV2	108769	163933	3.82%	0.359%
32	12.447	901	902	904	rVV	107371	144613	3.37%	0.316%
33	12.527	906	909	910	rBV	297155	331948	7.73%	0.726%
34	12.549	910	911	915	rVV4	139023	299525	6.97%	0.655%

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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

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 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	12.618	915	917	919	rVV	440207	457670	10.66%	1.002%
36	12.698	921	924	926	rVV	3045114	3273939	76.23%	7.165%
37	12.755	926	929	930	rVV2	120275	175250	4.08%	0.384%
38	12.789	930	932	933	rVB	233817	201445	4.69%	0.441%
39	12.847	933	937	938	rBV3	134775	262044	6.10%	0.573%
40	12.869	938	939	941	rVV	200270	140302	3.27%	0.307%
41	12.927	941	944	946	rVV	2516945	2921016	68.01%	6.392%
42	12.972	946	948	950	rVB	218815	257182	5.99%	0.563%
43	13.041	950	954	956	rBV	233860	411431	9.58%	0.900%
44	13.075	956	957	959	rVB	206626	221062	5.15%	0.484%
45	13.132	959	962	964	rBV2	253725	462012	10.76%	1.011%
46	13.224	968	970	974	rVB2	268672	515779	12.01%	1.129%
47	13.349	979	981	983	rVB	296948	375916	8.75%	0.823%
48	13.452	988	990	991	rVB	94208	119155	2.77%	0.261%
49	13.475	991	992	996	rVB2	148561	207951	4.84%	0.455%
50	13.578	999	1001	1004	rVB3	87783	126828	2.95%	0.278%
51	13.647	1004	1007	1008	rBV3	61859	150318	3.50%	0.329%
52	13.772	1016	1018	1020	rBV	538353	645210	15.02%	1.412%
53	13.875	1025	1027	1029	rVV2	395824	581003	13.53%	1.271%
54	13.910	1029	1030	1031	rVV	296409	259802	6.05%	0.569%
55	13.932	1031	1032	1035	rVV2	215767	426796	9.94%	0.934%
56	13.990	1035	1037	1039	rVV	477871	607939	14.15%	1.330%
57	14.058	1041	1043	1046	rVV2	82546	154304	3.59%	0.338%
58	14.138	1046	1050	1052	rVV	1734024	2982766	69.45%	6.527%
59	14.172	1052	1053	1057	rVV	1381457	1447967	33.71%	3.169%
60	14.230	1057	1058	1061	rVV3	75197	141843	3.30%	0.310%
61	14.298	1061	1064	1067	rVV3	333471	608795	14.17%	1.332%
62	14.390	1070	1072	1073	rVV	215356	276095	6.43%	0.604%
63	14.412	1073	1074	1078	rVV2	139866	261325	6.08%	0.572%
64	14.481	1078	1080	1081	rVV2	62957	95476	2.22%	0.209%
65	14.515	1081	1083	1084	rVV2	131132	229290	5.34%	0.502%
66	14.550	1084	1086	1088	rVV	345996	502153	11.69%	1.099%
67	14.584	1088	1089	1091	rVV	171040	259635	6.04%	0.568%
68	14.630	1091	1093	1096	rVV3	108711	277620	6.46%	0.608%
69	14.687	1096	1098	1099	rVV2	158482	204300	4.76%	0.447%
70	14.767	1103	1105	1108	rVB2	102635	142979	3.33%	0.313%
71	14.892	1113	1116	1117	rVV3	64630	135052	3.14%	0.296%

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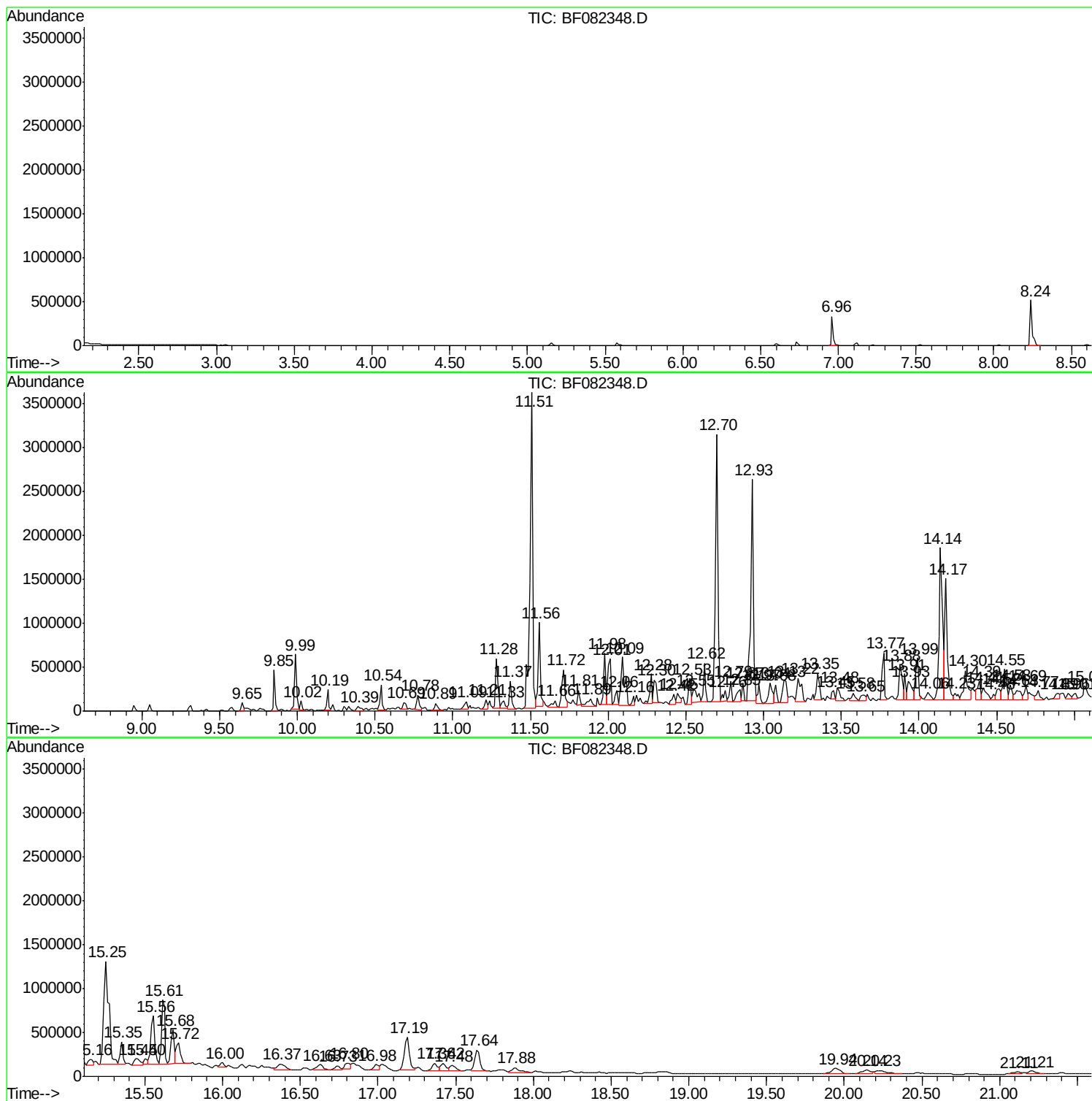
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72	14.961	1120	1122	1124	rVV3	62801	107864	2.51%	0.236%
73	15.007	1124	1126	1127	rVV2	61860	88983	2.07%	0.195%
74	15.064	1129	1131	1136	rVB2	155925	332244	7.74%	0.727%
75	15.155	1136	1139	1140	rBV3	64388	131429	3.06%	0.288%
76	15.247	1143	1147	1154	rBV	1176196	2604052	60.63%	5.699%
77	15.350	1154	1156	1158	rVV	254089	284071	6.61%	0.622%
78	15.441	1162	1164	1168	rBV3	76100	222582	5.18%	0.487%
79	15.498	1168	1169	1171	rVV2	55950	96482	2.25%	0.211%
80	15.555	1171	1174	1177	rVV	548205	896261	20.87%	1.961%
81	15.613	1177	1179	1182	rVV	727458	1107012	25.77%	2.423%
82	15.681	1182	1185	1186	rVV	387386	559298	13.02%	1.224%
83	15.715	1186	1188	1195	rVB2	237576	431279	10.04%	0.944%
84	16.001	1210	1213	1215	rVB2	50986	93702	2.18%	0.205%
85	16.367	1242	1245	1251	rVB5	67742	208262	4.85%	0.456%
86	16.630	1264	1268	1273	rVB4	61611	159624	3.72%	0.349%
87	16.733	1274	1277	1280	rBV3	43774	95471	2.22%	0.209%
88	16.801	1280	1283	1285	rBV3	68771	184845	4.30%	0.405%
89	16.984	1296	1299	1301	rBV2	54682	126677	2.95%	0.277%
90	17.190	1312	1317	1321	rBV	368477	772191	17.98%	1.690%
91	17.361	1328	1332	1335	rBV	88154	224631	5.23%	0.492%
92	17.418	1335	1337	1340	rVV2	85855	188513	4.39%	0.413%
93	17.476	1340	1342	1348	rVB3	59259	161491	3.76%	0.353%
94	17.636	1353	1356	1362	rVB	243091	531898	12.38%	1.164%
95	17.876	1374	1377	1386	rVB2	51092	176441	4.11%	0.386%
96	19.944	1551	1558	1566	rVB2	68425	280819	6.54%	0.615%
97	20.139	1569	1575	1579	rVV2	42709	186060	4.33%	0.407%
98	20.230	1580	1583	1595	rVB3	36155	170518	3.97%	0.373%
99	21.110	1655	1660	1663	rBV	20580	82239	1.91%	0.180%
100	21.213	1665	1669	1675	rVB2	32816	122677	2.86%	0.268%

Sum of corrected areas: 45695458

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



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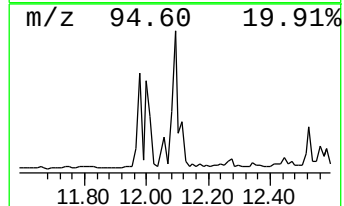
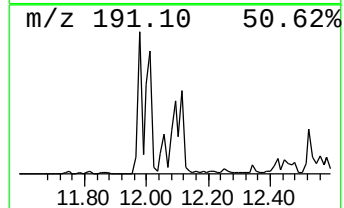
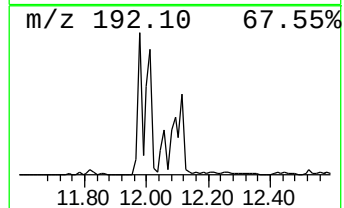
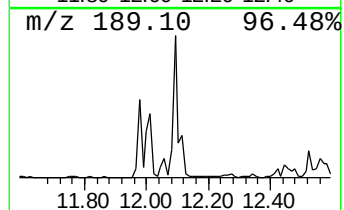
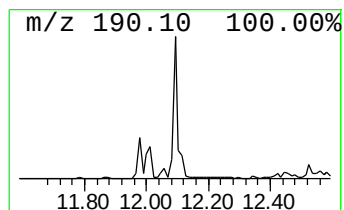
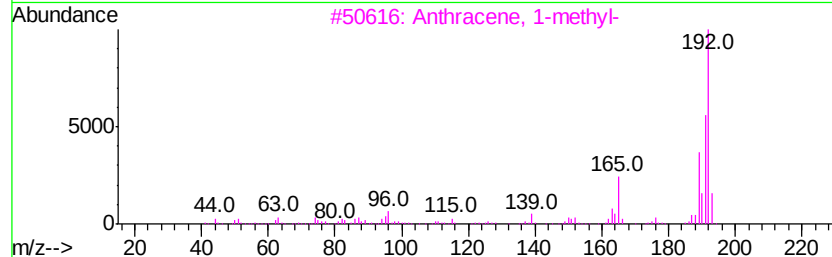
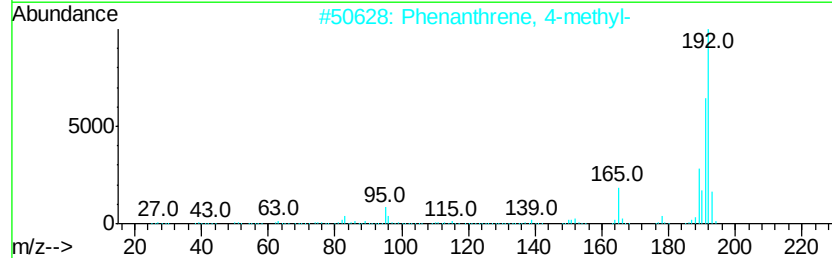
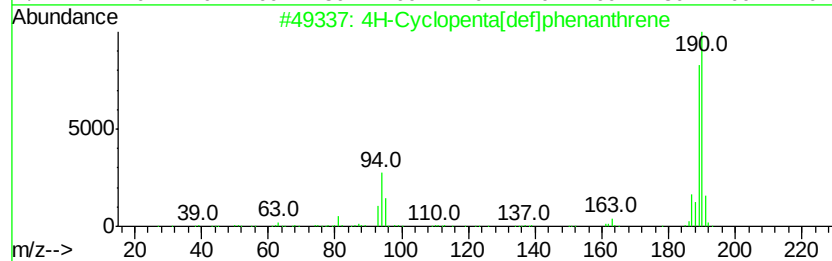
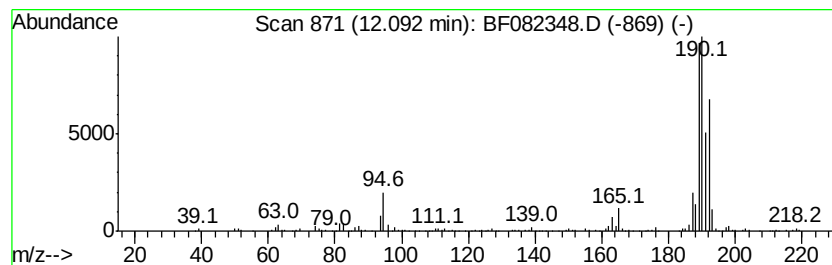
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 4H-Cyclopenta[def]phenanthrene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.09	4.27 ng	917063	Phenanthrene-d10	11.48

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2		Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	35
3		Anthracene, 1-methyl-	192	C15H12	000610-48-0	35
4		5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	30
5		3-Bromo-2-furoic acid	190	C5H3BrO3	014903-90-3	27



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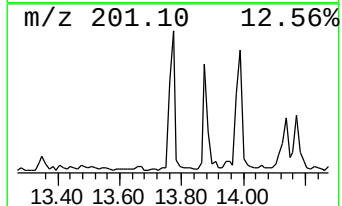
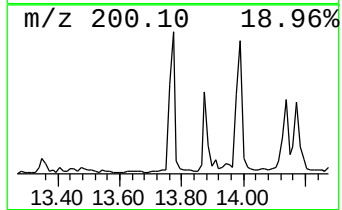
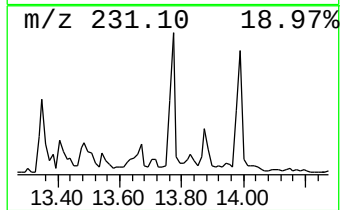
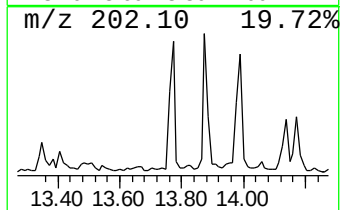
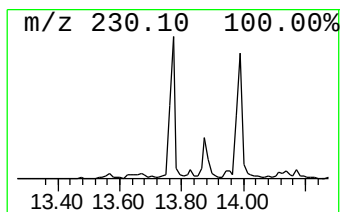
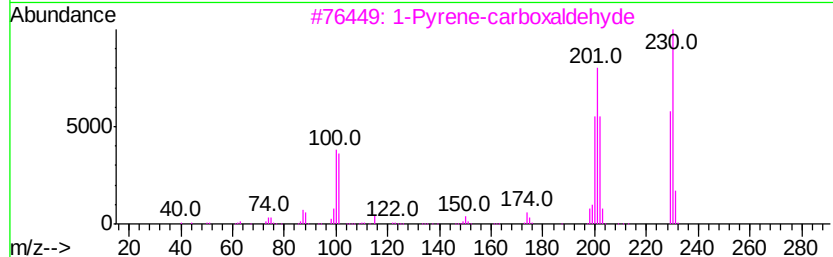
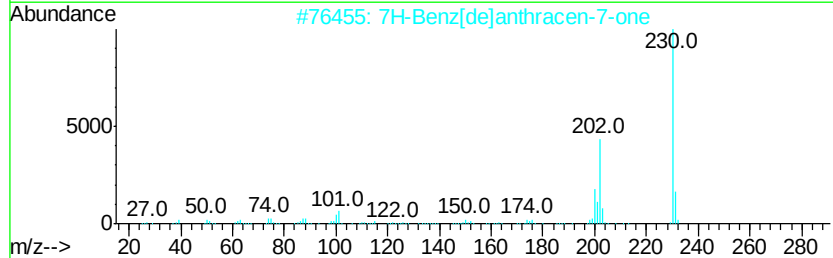
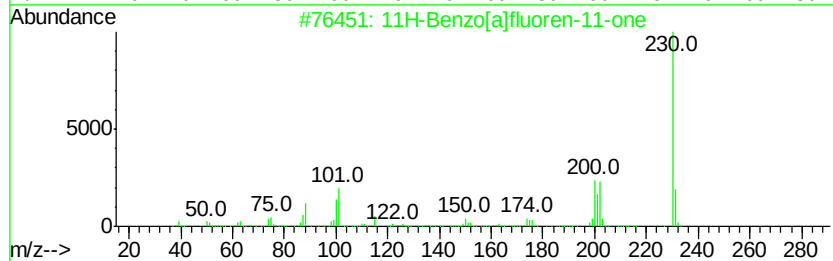
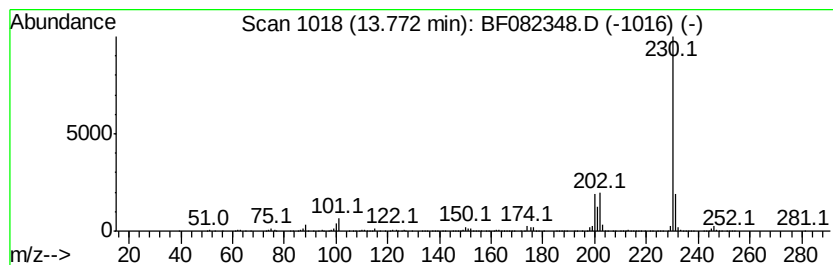
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 11H-Benzo[a]fluoren-11-one Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.77	4.33 ng	645210	Chrysene-d12	14.15

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	96
2		7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	96
3		1-Pyrene-carboxaldehyde	230	C17H10O	003029-19-4	72
4		6,9-Dimethoxy-4-methyl-2,3-dihyd...	245	C14H15NO3	001723-11-1	64
5		o-Terphenyl	230	C18H14	000084-15-1	59



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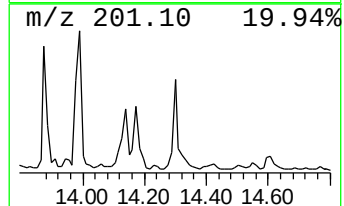
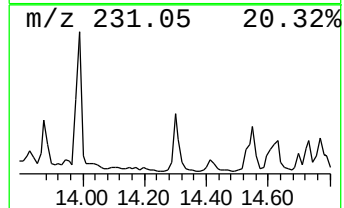
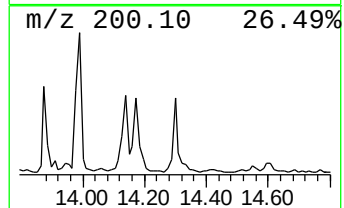
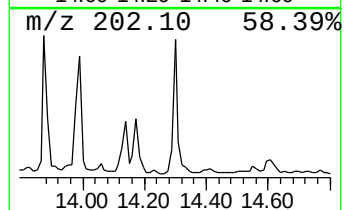
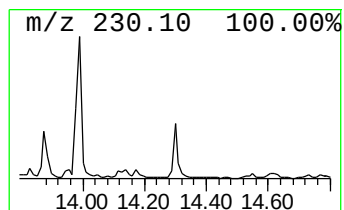
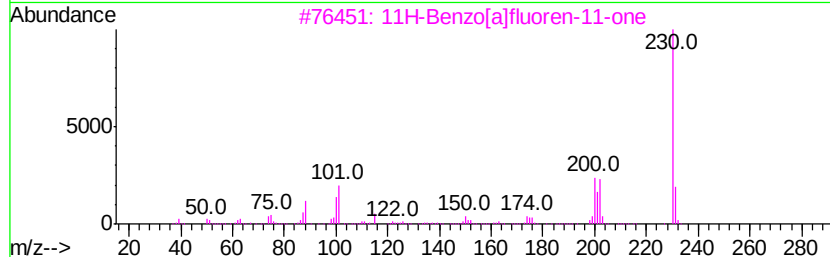
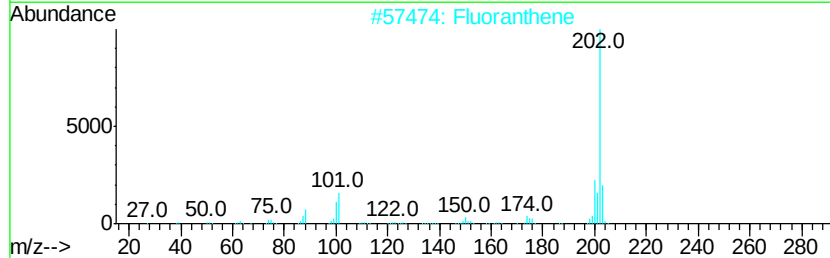
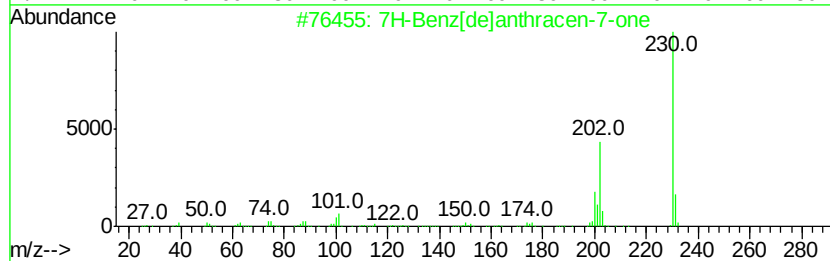
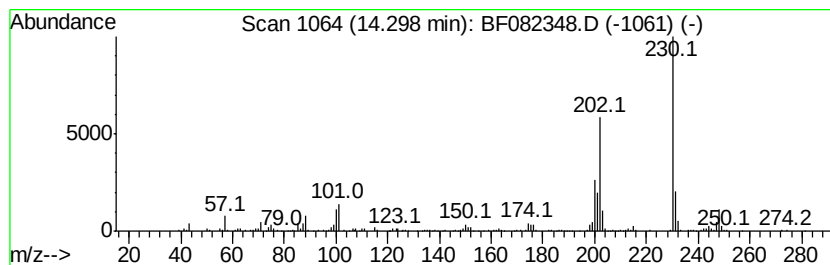
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 7H-Benz[de]anthracen-7-one Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.30	4.08 ng	608795	Chrysene-d12	14.15
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	7H-Benz[de]anthracen-7-one	230 C17H10O	000082-05-3	95
2	Fluoranthene	202 C16H10	000206-44-0	68
3	11H-Benzo[a]fluoren-11-one	230 C17H10O	000479-79-8	68
4	1-Pyrene-carboxaldehyde	230 C17H10O	003029-19-4	58
5	9-Chloro-1-phenazinol	230 C12H7ClN2O	091268-03-0	53



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Misc :
ALS Vial : 28 Sample Multiplier: 1

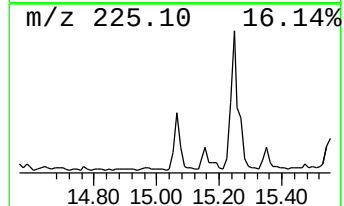
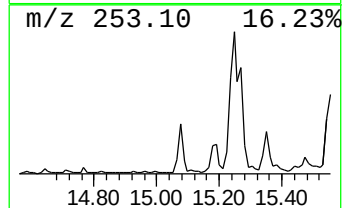
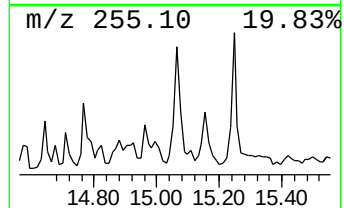
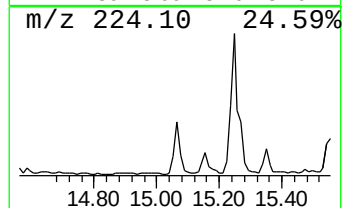
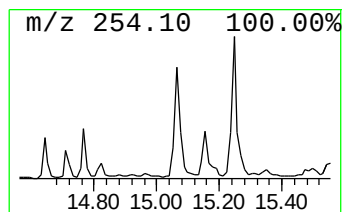
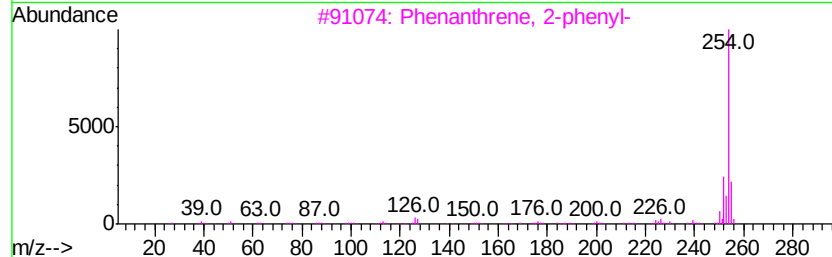
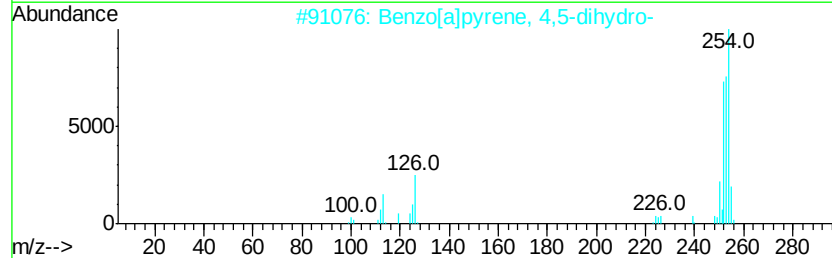
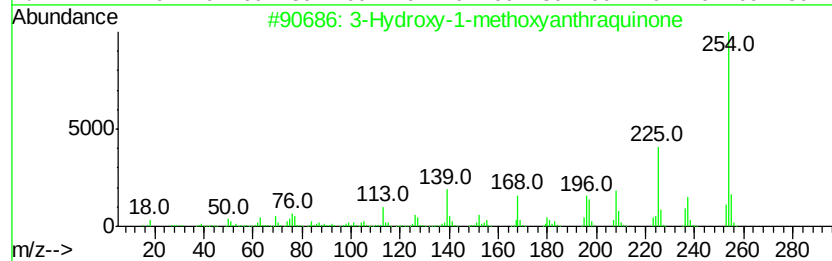
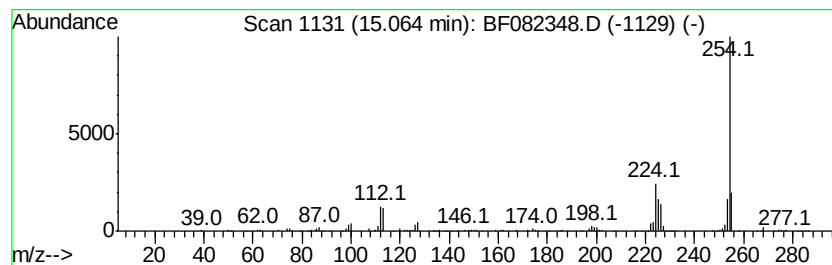
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 3-Hydroxy-1-methoxyanthraqu... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
15.06	11.88 ng	332244	Perylene-d12	15.68	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hydroxy-1-methoxyanthraquinone	254	C15H10O4	028504-24-7	64
2	Benzo[a]pyrene, 4,5-dihydro-	254	C20H14	057652-66-1	53
3	Phenanthrene, 2-phenyl-	254	C20H14	004325-77-3	53
4	Chrysin	254	C15H10O4	000480-40-0	53
5	2,2'-Binaphthalene	254	C20H14	000612-78-2	53



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
Data File : BF082348.D
Acq On : 17 Oct 2015 2:59
Operator : UM/IZ
Sample : G4016-12 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

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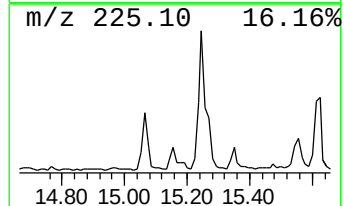
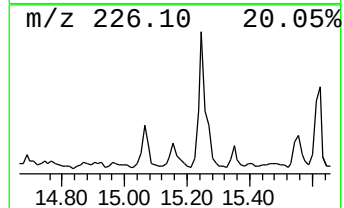
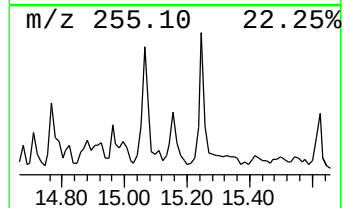
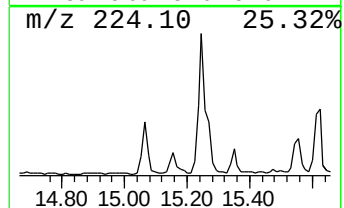
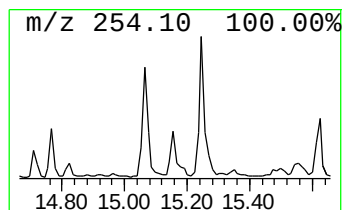
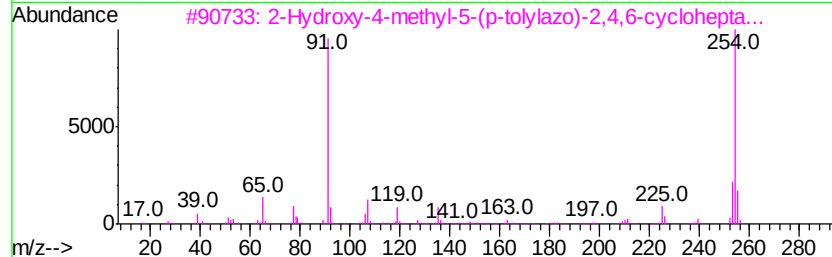
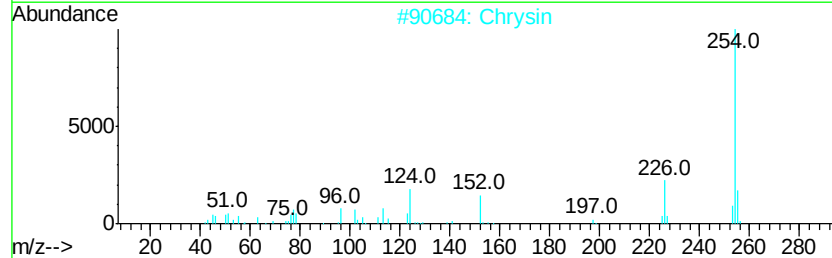
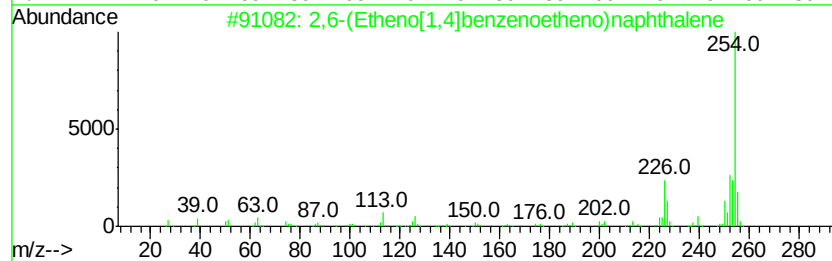
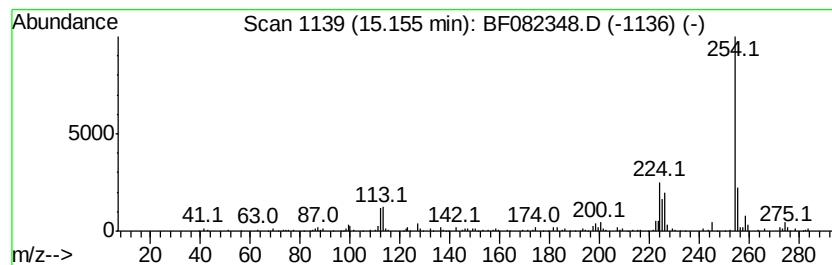
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 2,6-(Etheno[1,4]benzenoethe... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.16	4.70 ng	131429	Perylene-d12	15.68

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	2,6-(Etheno[1,4]benzenoetheno)na...	254	C20H14	117054-70-3	53
2		Chrysin	254	C15H10O4	000480-40-0	50
3		2-Hydroxy-4-methyl-5-(p-tolylazo)...	254	C15H14N2O2	066777-90-0	50
4		Benzo[a]pyrene, 4,5-dihydro-	254	C20H14	057652-66-1	49
5		9,10[1',2']-Benzoanthracene, 9...	254	C20H14	000477-75-8	47



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101715\
Data File : BF082348.D
Acq On : 17 Oct 2015 2:59
Operator : UM/IZ
Sample : G4016-12 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CS-13

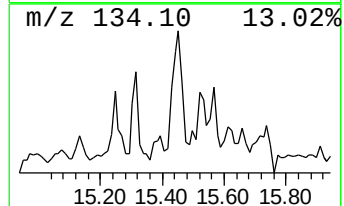
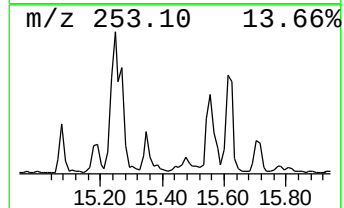
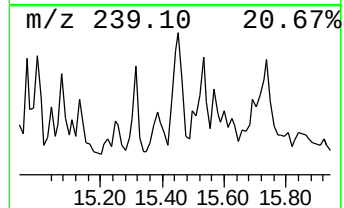
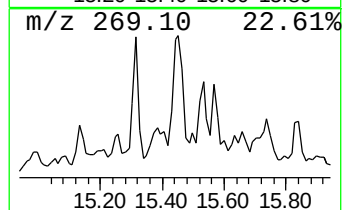
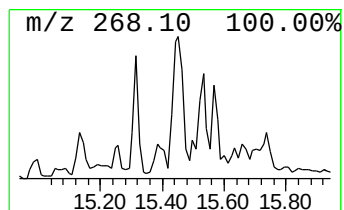
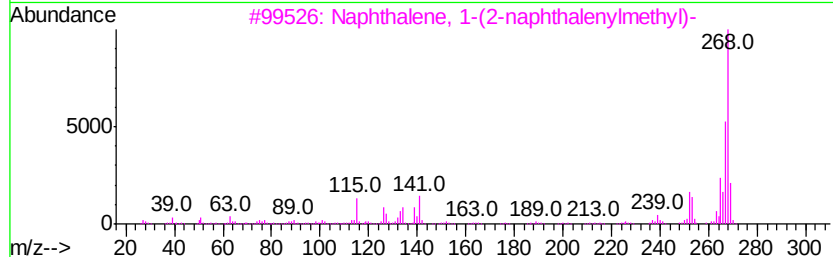
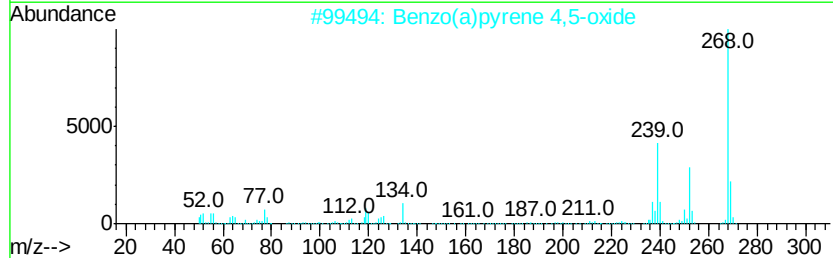
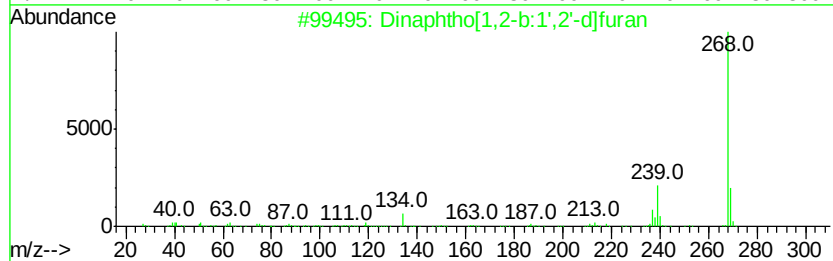
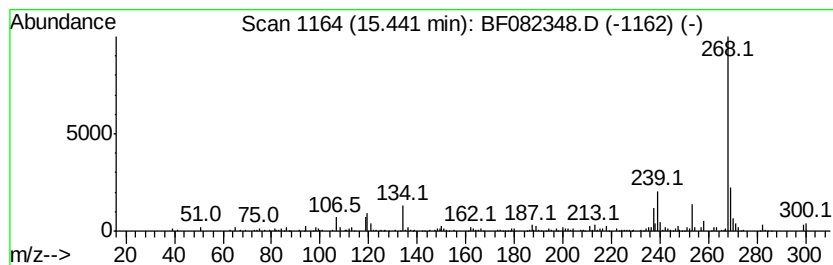
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.44	7.96 ng	222582	Perylene-d12	15.68

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	87
2		Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	68
3		Naphthalene, 1-(2-naphthalenyl)methy...	268	C21H16	000611-48-3	64
4		9,10-Anthracenedione, 1,4,5,8-te...	268	C14H12N4O2	002475-45-8	58
5		Benzene, 1,1'-(1,2-dimethyl-1,2-...	268	C18H20O2	000895-37-4	53



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
Data File : BF082348.D
Acq On : 17 Oct 2015 2:59
Operator : UM/IZ
Sample : G4016-12 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

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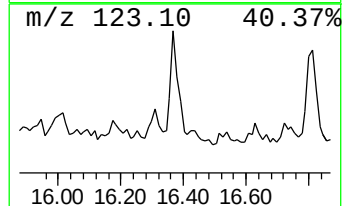
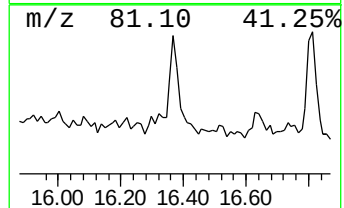
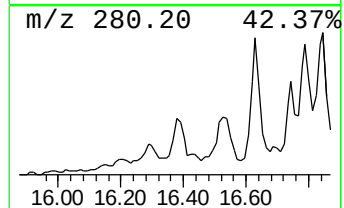
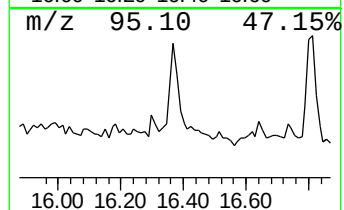
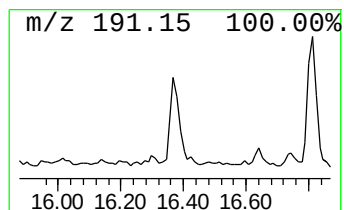
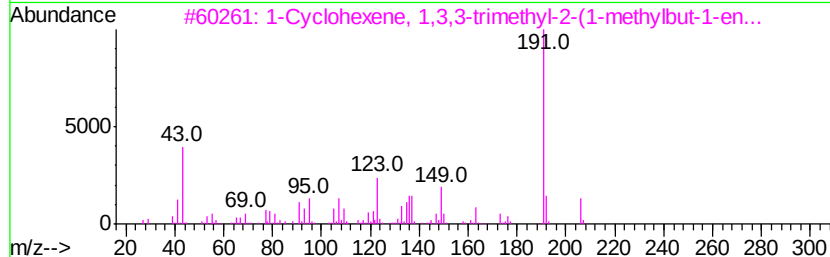
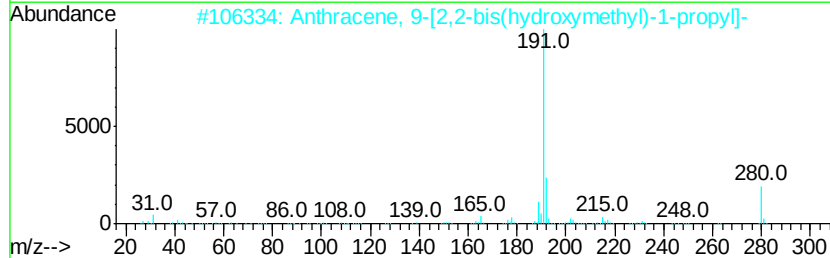
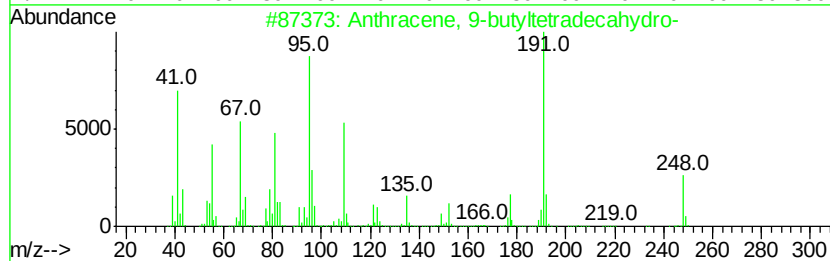
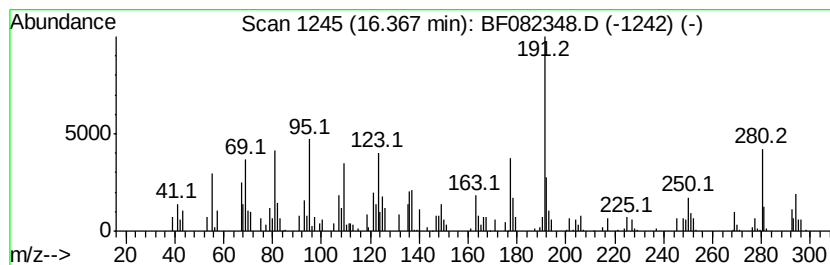
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 unknown16.37 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.37	7.45 ng	208262	Perylene-d12	15.68

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Anthracene, 9-butyltetradecahydro-	248	C18H32	055133-89-6	38
2		Anthracene, 9-[2,2-bis(hydroxyme...	280	C19H20O2	144000-85-1	37
3		1-Cyclohexene, 1,3,3-trimethyl-2...	206	C14H22O	1000197-08-4	37
4		(7a-Isopropenyl-4,5-dimethylocta...	222	C15H26O	1000187-02-9	32
5		Anthracene, 9-dodecyltetradecahy...	360	C26H48	055401-75-7	32



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
Data File : BF082348.D
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Sample : G4016-12 10X
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ALS Vial : 28 Sample Multiplier: 1

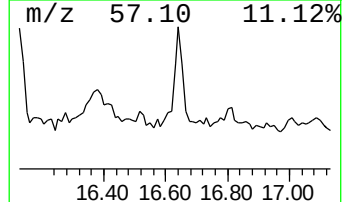
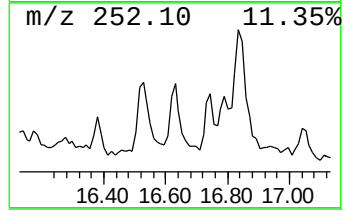
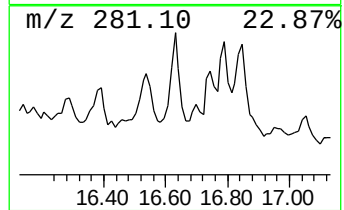
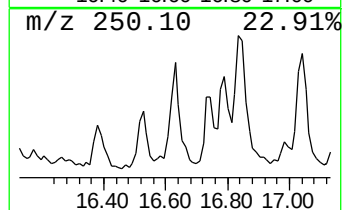
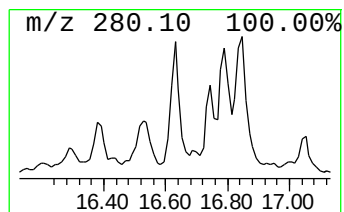
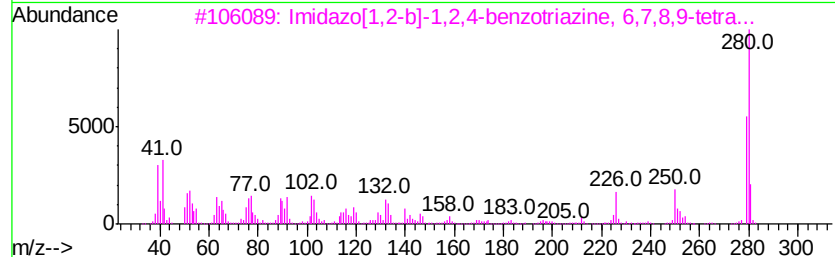
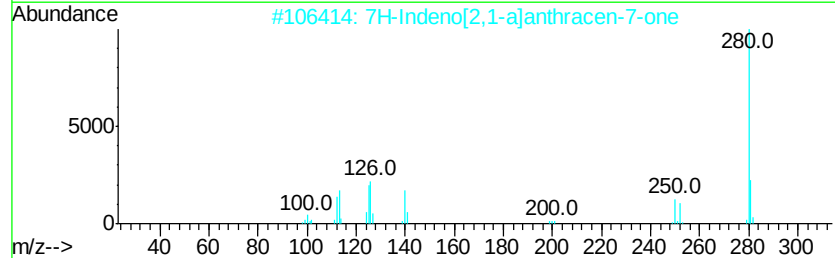
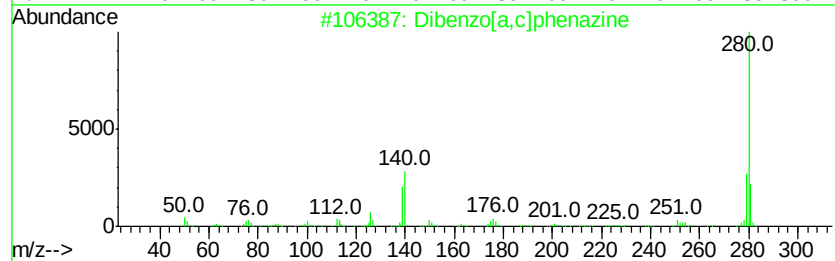
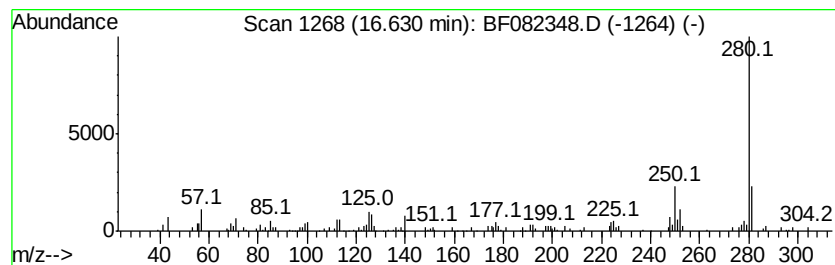
Instrument :
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Dibenzo[a,c]phenazine Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.	
16.63	5.71 ng	159624	Perylene-d12	15.68	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzo[a,c]phenazine	280	C20H12N2	000215-64-5	86
2	7H-Indeno[2,1-a]anthracen-7-one	280	C21H12O	027582-45-2	81
3	Imidazo[1,2-b]-1,2,4-benzotriazi...	280	C16H16N4O	1000277-17-5	72
4	Dibenzo(a,c)fluoren-13-one	280	C21H12O	063041-47-4	68
5	Benzoxazole, 2-[2-(4-piperidyl)p...	280	C16H16N4O	1000294-14-8	55



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
Data File : BF082348.D
Acq On : 17 Oct 2015 2:59
Operator : UM/IZ
Sample : G4016-12 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
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ClientSampled :
CS-13

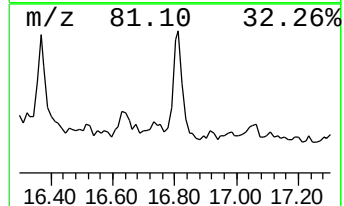
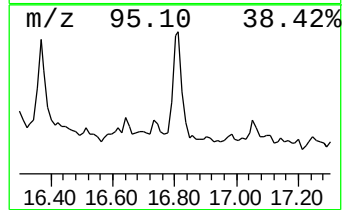
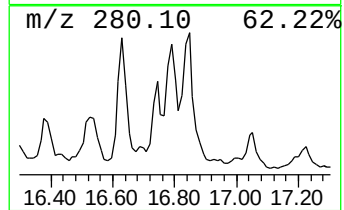
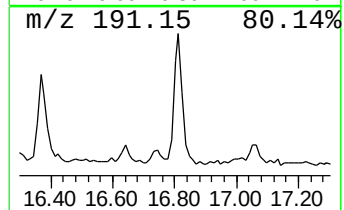
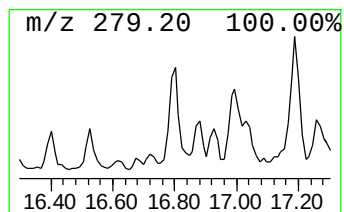
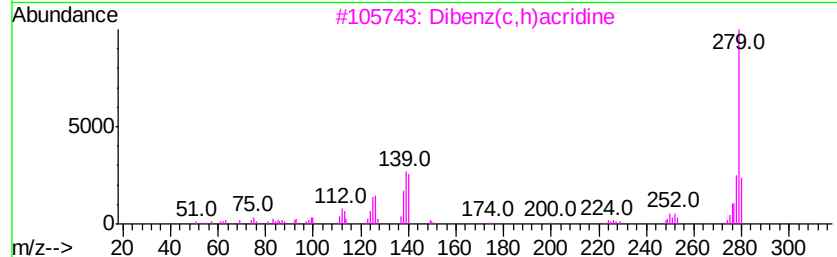
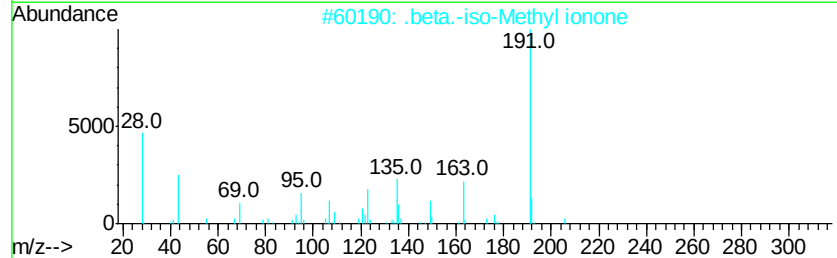
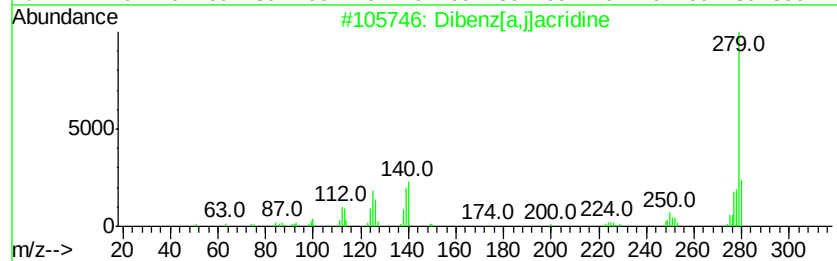
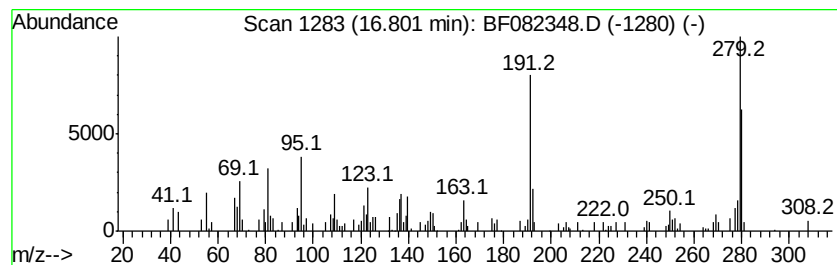
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 unknown16.80 Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.80	6.61 ng	184845	Perylene-d12	15.68

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Dibenz[a,i]acridine	279	C21H13N	000224-42-0	42
2			.beta.-iso-Methyl ionone	206	C14H22O	1000285-40-2	30
3			Dibenz(c,h)acridine	279	C21H13N	000224-53-3	30
4			1-(1-Trimethylsiloxyethenyl)-3-t...	280	C14H24O2Si2	126210-52-4	27
5			Dibenz(a,c)acridine	279	C21H13N	000215-62-3	25



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
Data File : BF082348.D
Acq On : 17 Oct 2015 2:59
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Sample : G4016-12 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

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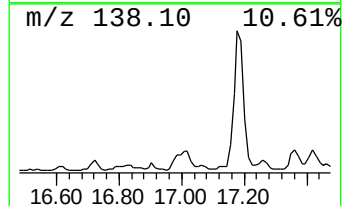
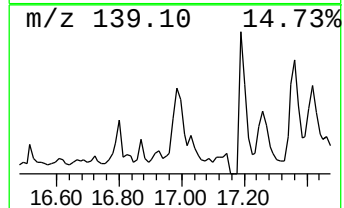
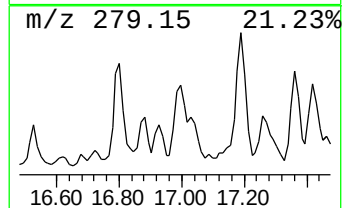
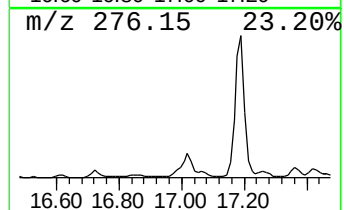
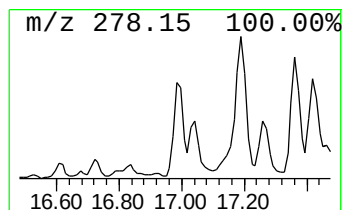
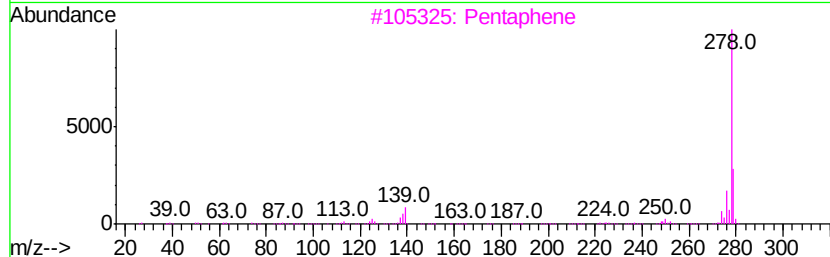
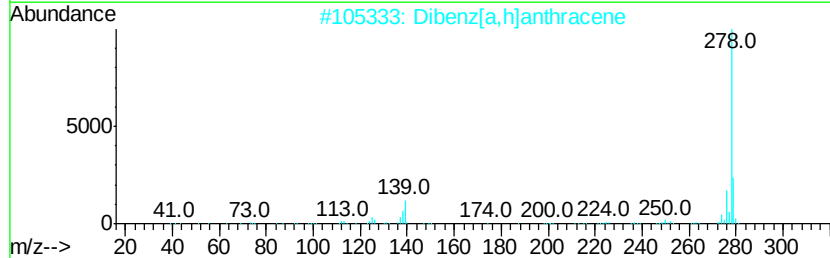
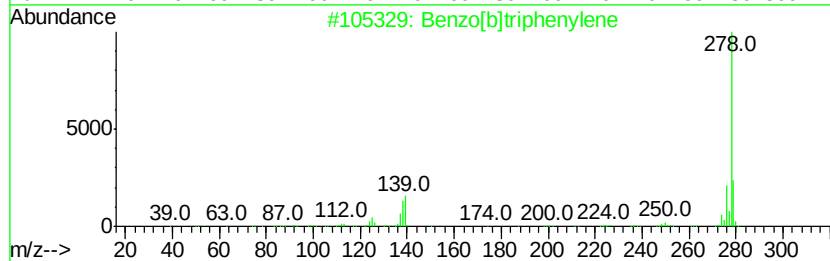
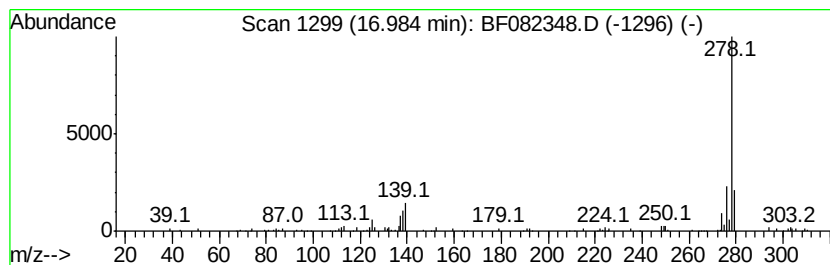
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Benzo[b]triphenylene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.98	4.53 ng	126677	Perylene-d12	15.68

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[b]triphenylene	278	C22H14	000215-58-7	94
2		Dibenz[a,h]anthracene	278	C22H14	000053-70-3	94
3		Pentaphene	278	C22H14	000222-93-5	89
4		Benzo[a]naphthacene	278	C22H14	000226-88-0	81
5		Benzo[b]chrysene	278	C22H14	000214-17-5	76



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
Data File : BF082348.D
Acq On : 17 Oct 2015 2:59
Operator : UM/IZ
Sample : G4016-12 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CS-13

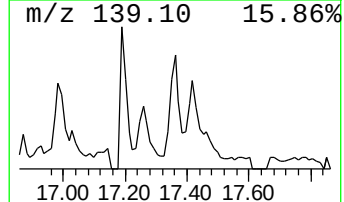
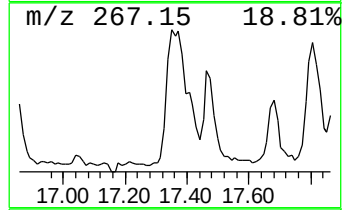
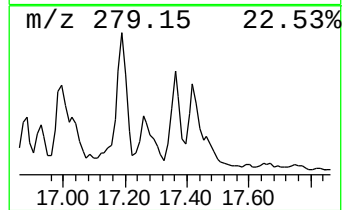
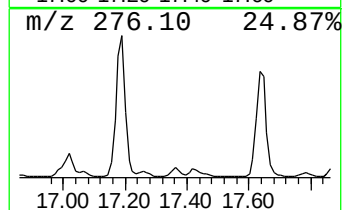
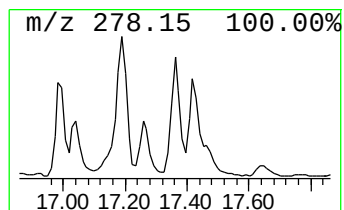
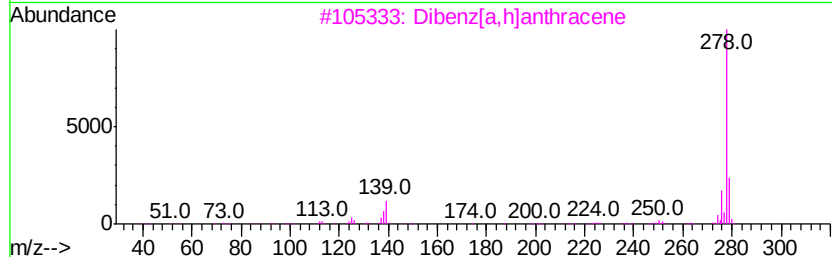
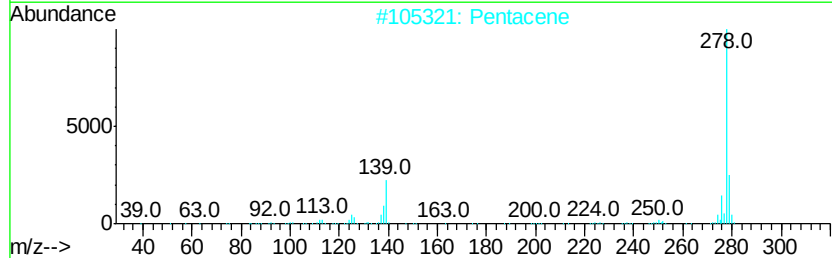
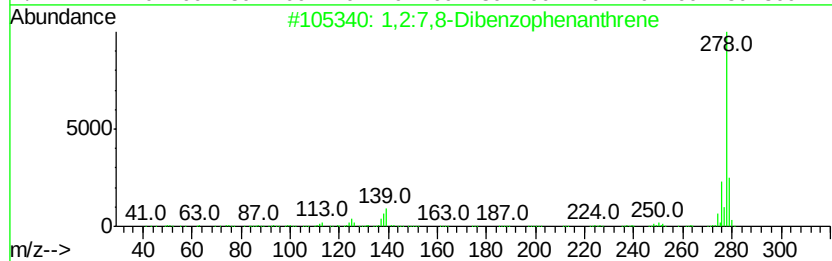
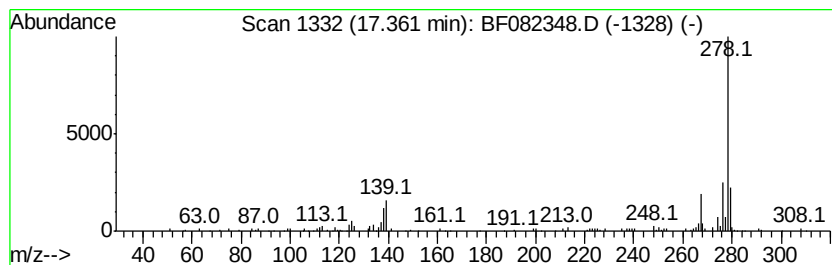
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 1,2:7,8-Dibenzophenanthrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.36	8.03 ng	224631	Perylene-d12	15.68

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	97
2		Pentacene	278	C22H14	000135-48-8	96
3		Dibenz[a,h]anthracene	278	C22H14	000053-70-3	96
4		Benzo[b]chrysene	278	C22H14	000214-17-5	96
5		Benzo[b]triphenylene	278	C22H14	000215-58-7	95



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
Data File : BF082348.D
Acq On : 17 Oct 2015 2:59
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Instrument :
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ClientSampleId :
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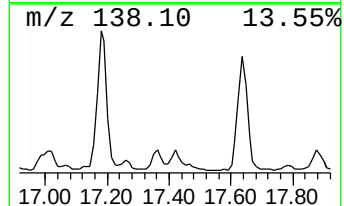
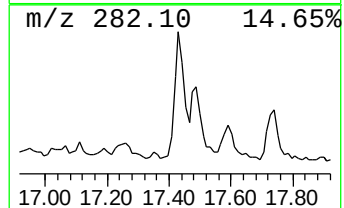
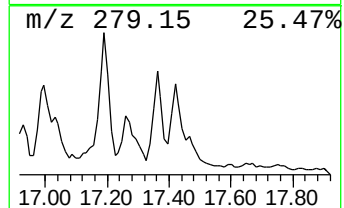
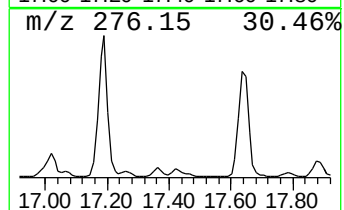
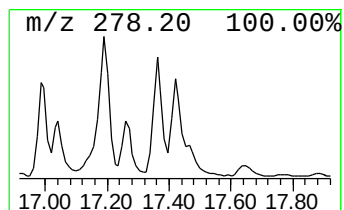
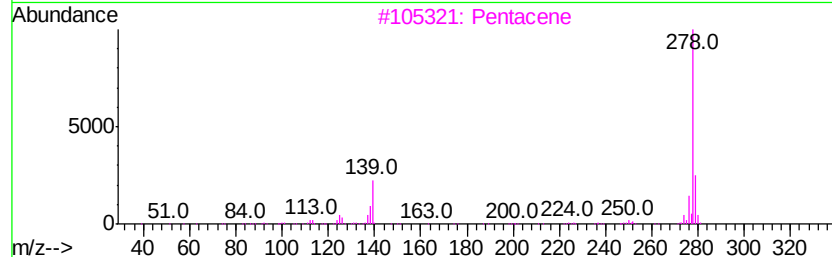
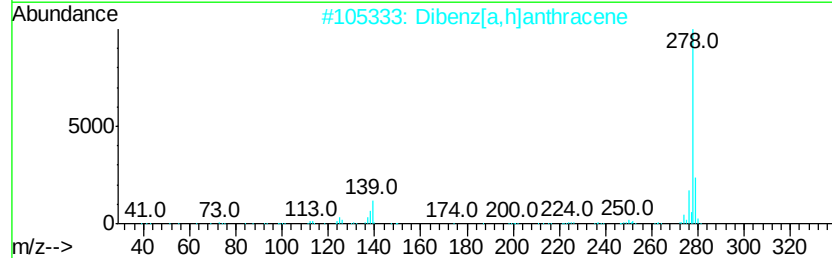
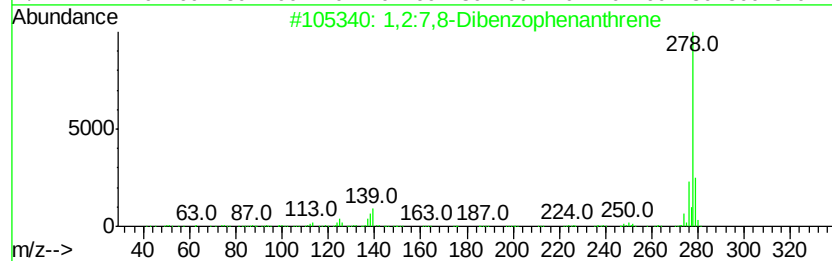
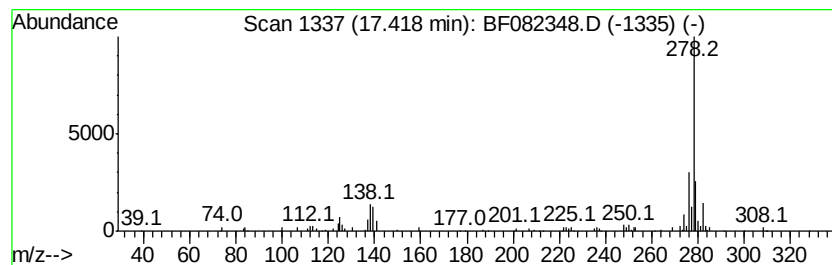
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Dibenz[a,h]anthracene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.42	6.74 ng	188513	Perylene-d12	15.68

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1,2:7,8-Dibenzophenanthrene	278	C22H14	000213-46-7	97
2			Dibenz[a,h]anthracene	278	C22H14	000053-70-3	95
3			Pentacene	278	C22H14	000135-48-8	92
4			Benzo[b]triphenylene	278	C22H14	000215-58-7	86
5			Benzo[a]naphthacene	278	C22H14	000226-88-0	86



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
Data File : BF082348.D
Acq On : 17 Oct 2015 2:59
Operator : UM/IZ
Sample : G4016-12 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

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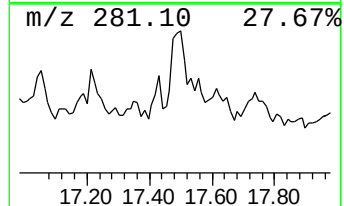
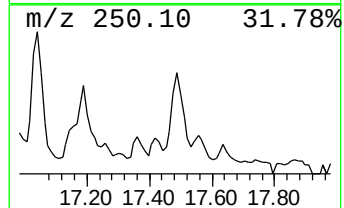
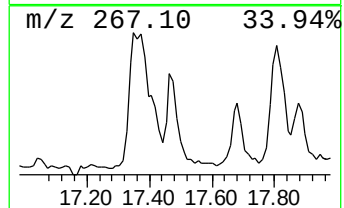
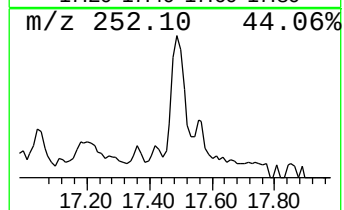
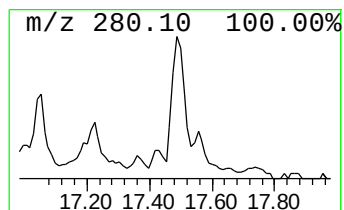
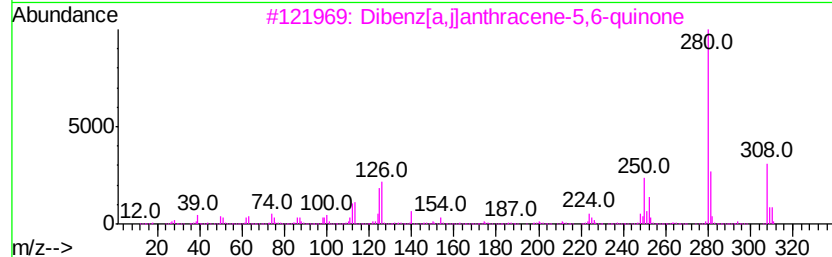
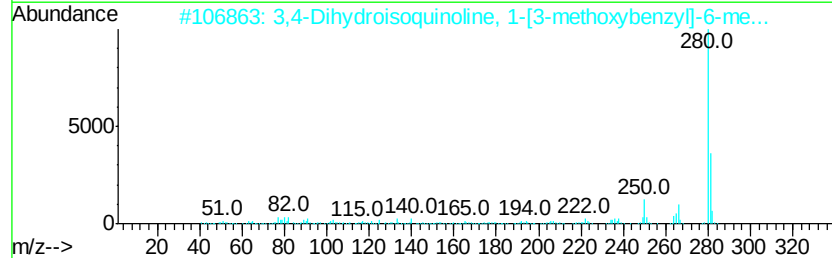
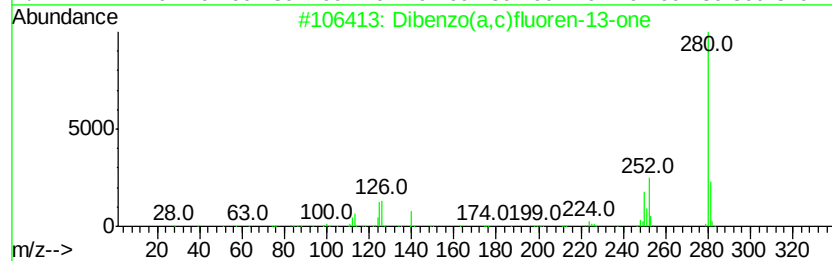
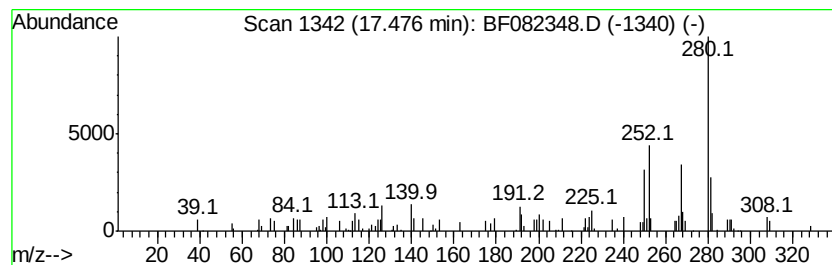
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Dibenzo(a,c)fluoren-13-one Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.48	5.77 ng	161491	Perylene-d12	15.68

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzo(a,c)fluoren-13-one	280	C21H12O	063041-47-4	76
2		3,4-Dihydroisoquinoline, 1-[3-me...	281	C18H19NO2	1000126-16-1	55
3		Dibenz[a,ilanthracene-5,6-quinone	308	C22H12O2	052755-66-5	50
4		9H-Thioxanthen-9-one, 2-(trifluo...	280	C14H7F3OS	001693-28-3	50
5		3-Hydroxy-D-homoestra-1,3,5(10),...	280	C19H20O2	1000215-90-6	50



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
Data File : BF082348.D
Acq On : 17 Oct 2015 2:59
Operator : UM/IZ
Sample : G4016-12 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

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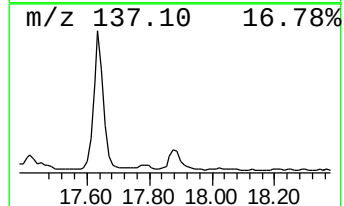
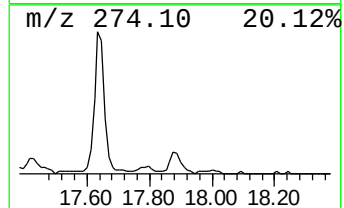
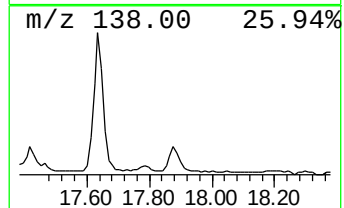
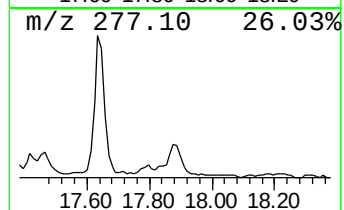
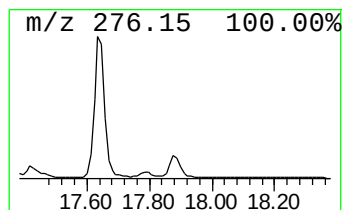
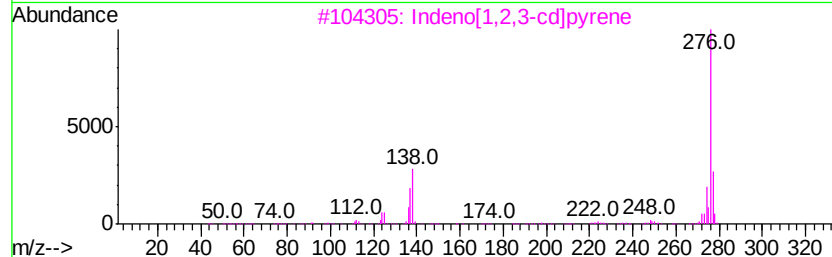
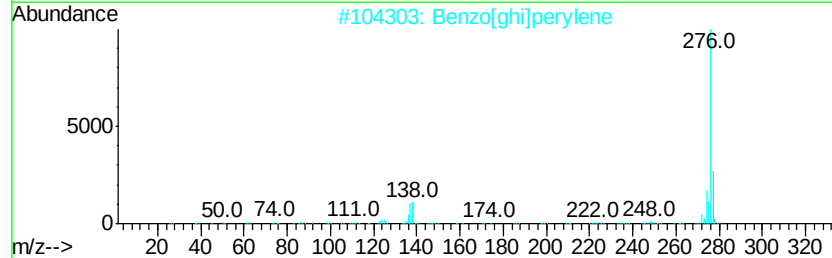
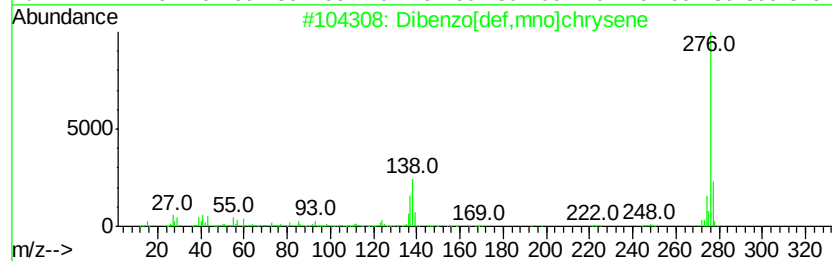
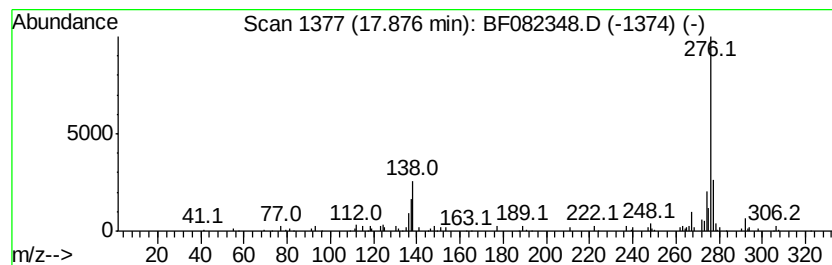
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Dibenzo[def,mno]chrysene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.88	6.31 ng	176441	Perylene-d12	15.68

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzo[def,mno]chrysene	276	C22H12	000191-26-4	95
2		Benzo[ghi]perylene	276	C22H12	000191-24-2	90
3		Indeno[1,2,3-cd]pyrene	276	C22H12	000193-39-5	90
4		Indeno[1,2,3-cd]fluoranthene	276	C22H12	000193-43-1	76
5		Naphthalen-1-yl-(3-nitro-benzyl)...	276	C17H12N2O2	200421-53-0	47



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
Data File : BF082348.D
Acq On : 17 Oct 2015 2:59
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Sample : G4016-12 10X
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ClientSampleId :
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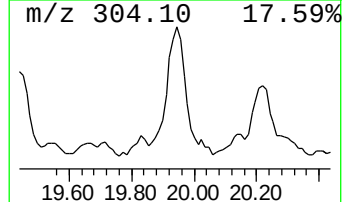
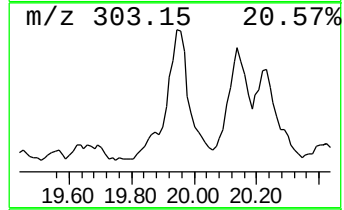
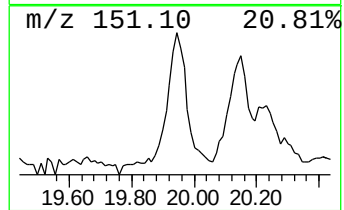
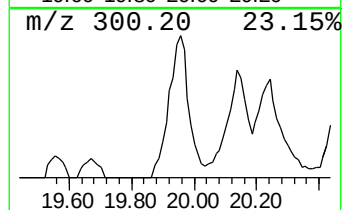
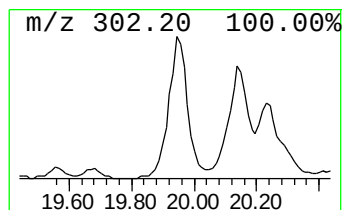
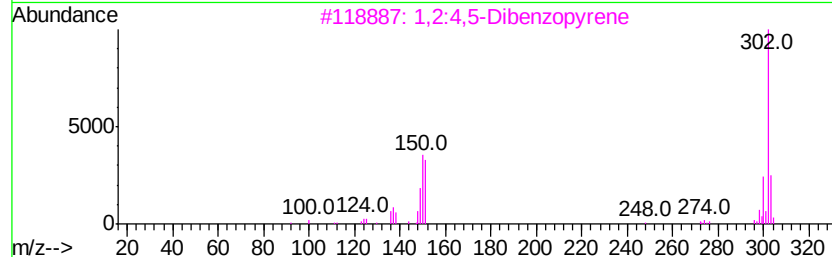
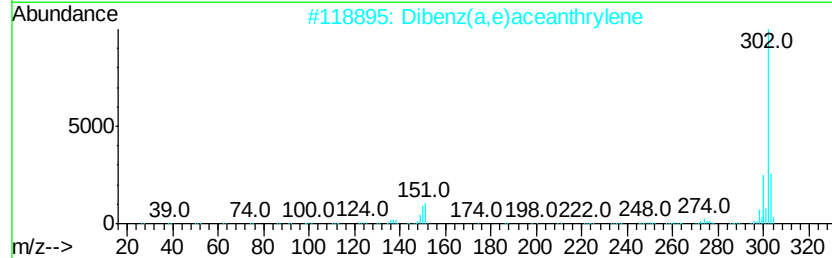
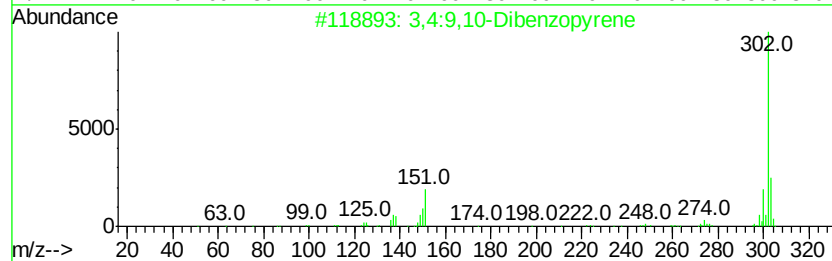
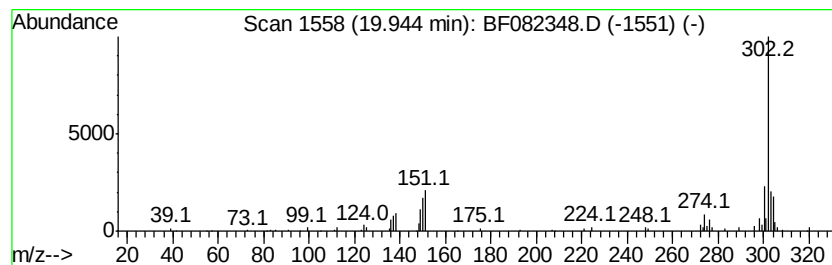
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 3,4:9,10-Dibenzopyrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.94	10.04 ng	280819	Perylene-d12	15.68

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	95
2		Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	94
3		1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	86
4		3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	76
5		1,2:3,4-Dibenzopyrene	302	C24H14	000191-30-0	58



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101715\
Data File : BF082348.D
Acq On : 17 Oct 2015 2:59
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Sample : G4016-12 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

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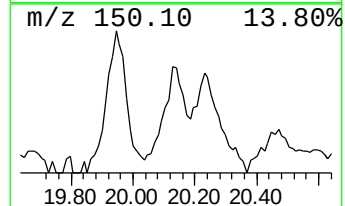
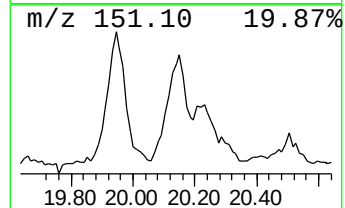
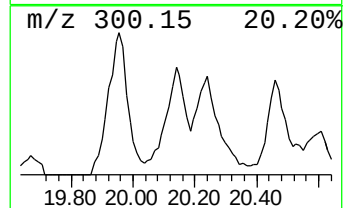
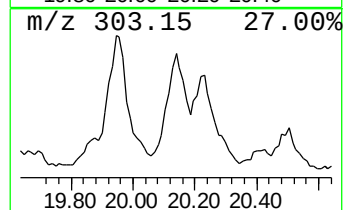
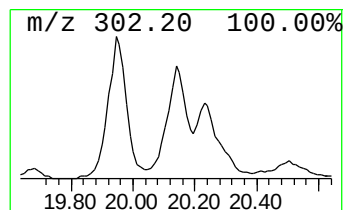
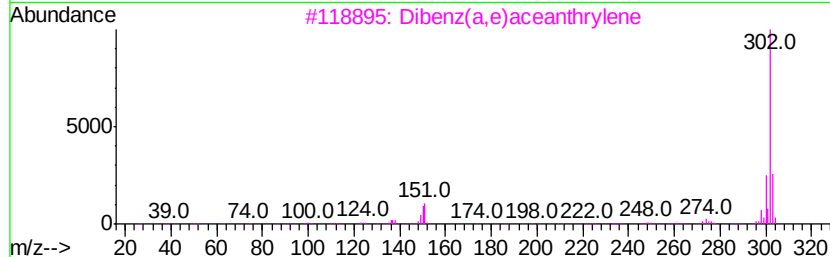
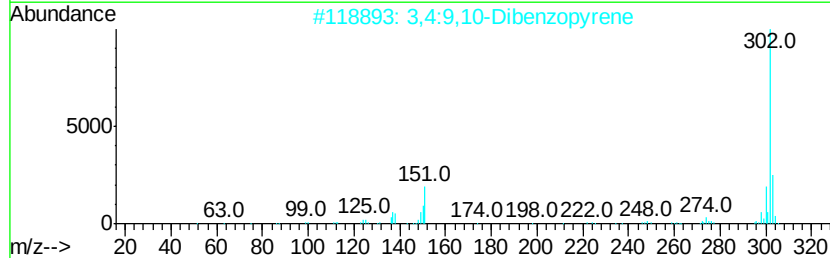
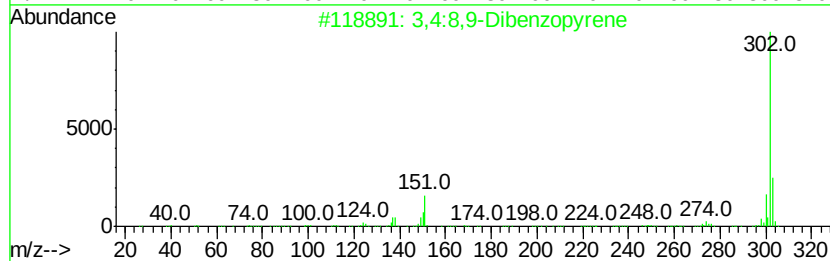
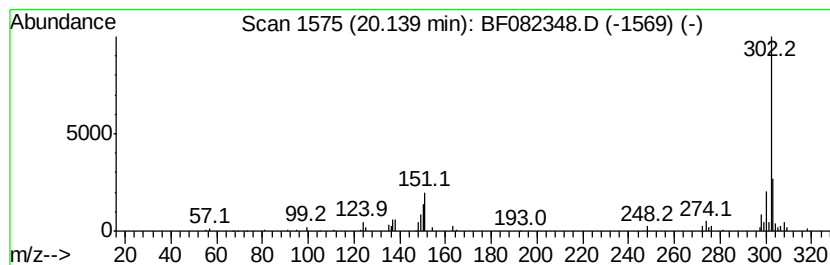
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 3,4:8,9-Dibenzopyrene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.14	6.65 ng	186060	Perylene-d12	15.68

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	96
2			3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	96
3			Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	89
4			1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	83
5			Dibenzo[fg,op]naphthacene	302	C24H14	000192-51-8	76



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
Data File : BF082348.D
Acq On : 17 Oct 2015 2:59
Operator : UM/IZ
Sample : G4016-12 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

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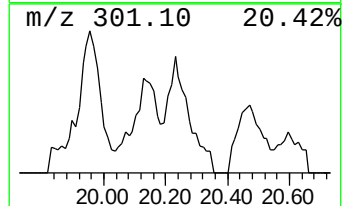
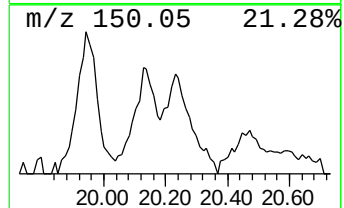
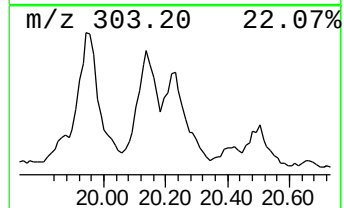
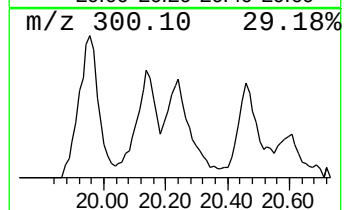
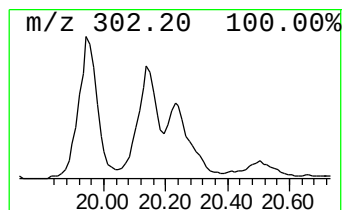
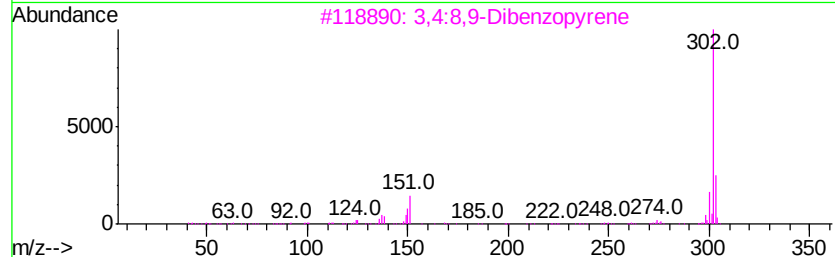
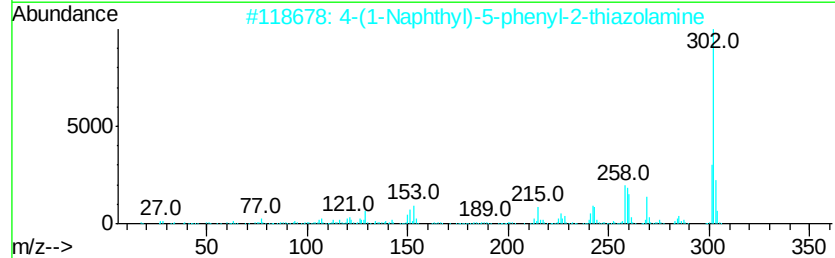
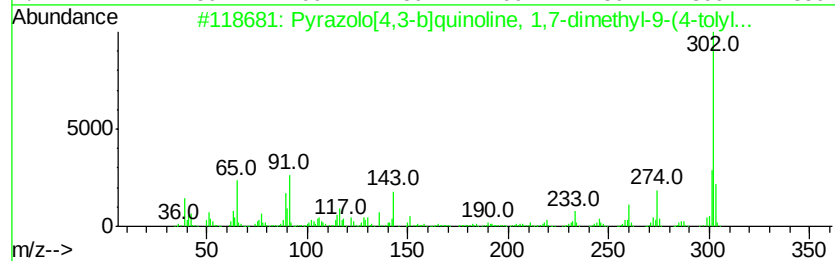
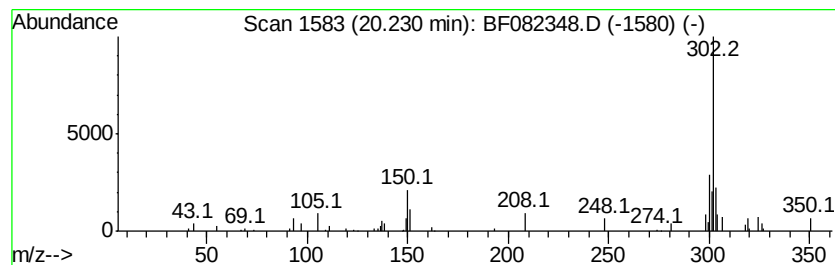
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Pyrazolo[4,3-b]quinoline, 1... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.23	6.10 ng	170518	Perylene-d12	15.68

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Pyrazolo[4,3-b]quinoline, 1,7-di...	302	C19H18N4	1000263-77-1	50
2		4-(1-Naphthyl)-5-phenyl-2-thiazo...	302	C19H14N2S	109693-78-9	47
3		3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	46
4		Dibenzo[fg,op]naphthacene	302	C24H14	000192-51-8	46
5		Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	43



Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
Data File : BF082348.D
Acq On : 17 Oct 2015 2:59
Operator : UM/IZ
Sample : G4016-12 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
CS-13

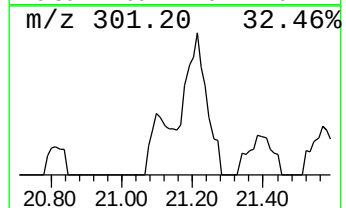
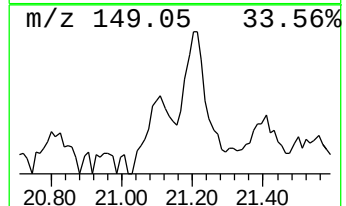
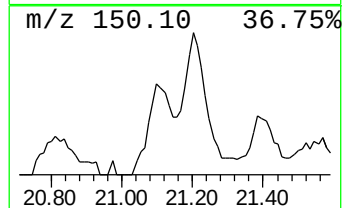
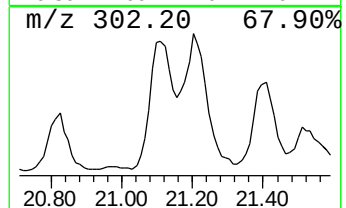
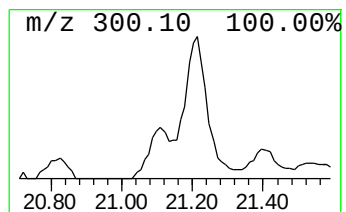
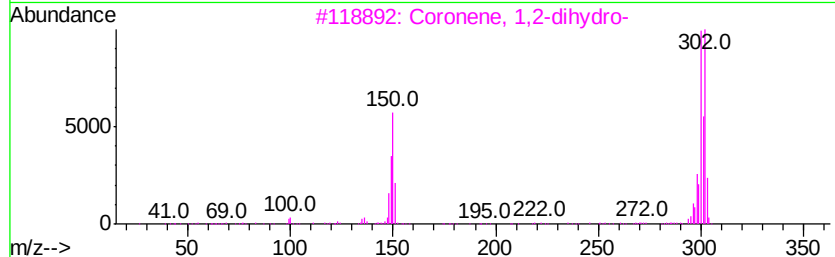
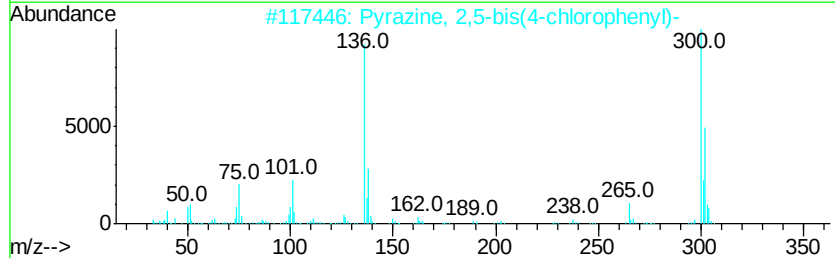
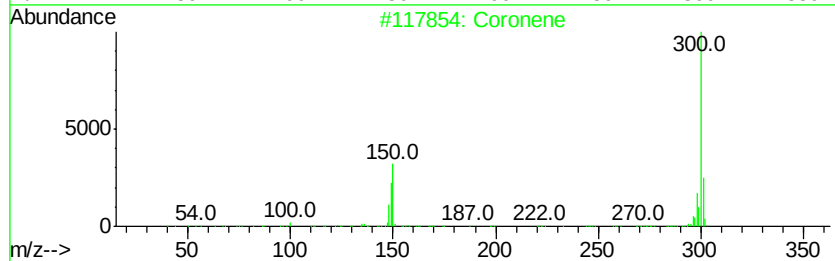
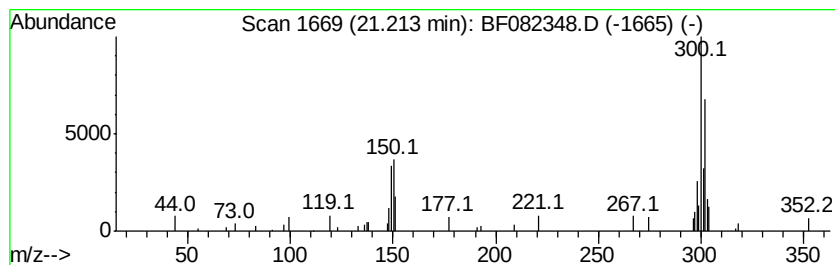
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Coronene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.21	4.39 ng	122677	Perylene-d12	15.68

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Coronene	300	C24H12	000191-07-1	64
2		Pyrazine, 2,5-bis(4-chlorophenyl)-	300	C16H10Cl2N2	074376-33-3	53
3		Coronene, 1,2-dihydro-	302	C24H14	107716-56-3	52
4		4'-Bromo-flavone	300	C15H9BrO2	020525-20-6	50
5		1,2:3,4-Dibenzopyrene	302	C24H14	000191-30-0	27



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101715\
 Data File : BF082348.D
 Acq On : 17 Oct 2015 2:59
 Operator : UM/IZ
 Sample : G4016-12 10X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-13

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101015.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
4H-Cyclopenta[def...	12.09	4.3	ng	917063	4	11.48	4295050	20.0
11H-Benzo[a]fluor...	13.77	4.3	ng	645210	5	14.15	2982770	20.0
7H-Benz[de]anthra...	14.30	4.1	ng	608795	5	14.15	2982770	20.0
3-Hydroxy-1-metho...	15.06	11.9	ng	332244	6	15.68	559298	20.0
2,6-(Etheno[1,4]b...	15.16	4.7	ng	131429	6	15.68	559298	20.0
Dinaphtho[1,2-b:1...	15.44	8.0	ng	222582	6	15.68	559298	20.0
unknown16.37	16.37	7.5	ng	208262	6	15.68	559298	20.0
Dibenzo[a,c]phena...	16.63	5.7	ng	159624	6	15.68	559298	20.0
unknown16.80	16.80	6.6	ng	184845	6	15.68	559298	20.0
Benzo[b]triphenylene	16.98	4.5	ng	126677	6	15.68	559298	20.0
1,2:7,8-Dibenzoph...	17.36	8.0	ng	224631	6	15.68	559298	20.0
Dibenz[a,h]anthra...	17.42	6.7	ng	188513	6	15.68	559298	20.0
Dibenzo(a,c)fluor...	17.48	5.8	ng	161491	6	15.68	559298	20.0
Dibenzo[def,mno]c...	17.88	6.3	ng	176441	6	15.68	559298	20.0
3,4:9,10-Dibenzop...	19.94	10.0	ng	280819	6	15.68	559298	20.0
3,4:8,9-Dibenzopy...	20.14	6.7	ng	186060	6	15.68	559298	20.0
Pyrazolo[4,3-b]qu...	20.23	6.1	ng	170518	6	15.68	559298	20.0
Coronene	21.21	4.4	ng	122677	6	15.68	559298	20.0