

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121615\
 Data File : BF083856.D
 Acq On : 16 Dec 2015 18:57
 Operator : UM/SJ
 Sample : G4836-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LIBERTY-SF-003

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-BF121315.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	2.167	5	7	22	rVB3	28627	76158	2.96%	0.302%
2	4.430	202	205	208	rBV	396992	454989	17.65%	1.802%
3	5.081	258	262	264	rBV	799248	973751	37.78%	3.856%
4	5.504	296	299	301	rBV	1291996	1431560	55.55%	5.669%
5	6.521	385	388	391	rBV	1518115	1614279	62.64%	6.393%
6	6.659	397	400	402	rBV	1846931	1660306	64.42%	6.575%
7	6.887	418	420	423	rBV	588480	520225	20.19%	2.060%
8	7.047	431	434	436	rBV	1793455	1543747	59.90%	6.113%
9	7.447	466	469	472	rBV	1023416	1167443	45.30%	4.623%
10	8.179	530	533	535	rBV	501644	752762	29.21%	2.981%
11	8.887	592	595	597	rVB	47304	41804	1.62%	0.166%
12	8.990	601	604	606	rVB2	19156	28991	1.12%	0.115%
13	9.253	624	627	629	rBV	2612993	2577197	100.00%	10.206%
14	9.333	632	634	636	rBV2	29712	38979	1.51%	0.154%
15	9.585	652	656	657	rBV	33850	34411	1.34%	0.136%
16	9.642	659	661	663	rVV	406241	342756	13.30%	1.357%
17	9.699	663	666	672	rVB4	14352	46931	1.82%	0.186%
18	9.870	676	681	683	rVB	47495	64958	2.52%	0.257%
19	9.928	683	686	688	rBV	913207	883933	34.30%	3.500%
20	9.962	688	689	691	rVV	87163	64863	2.52%	0.257%
21	10.042	693	696	697	rVB2	33269	35371	1.37%	0.140%
22	10.099	697	701	702	rBV	13220	26629	1.03%	0.105%
23	10.133	702	704	705	rVB	49566	59380	2.30%	0.235%
24	10.339	720	722	723	rBV	21865	29037	1.13%	0.115%
25	10.362	723	724	726	rVB	118509	98326	3.82%	0.389%
26	10.465	732	733	736	rBV	63460	98759	3.83%	0.391%
27	10.590	740	744	746	rVV2	46012	108867	4.22%	0.431%
28	10.636	746	748	749	rVB2	26256	27906	1.08%	0.111%
29	10.705	752	754	757	rBV2	315184	353066	13.70%	1.398%
30	10.842	764	766	770	rBV2	107764	196264	7.62%	0.777%
31	11.025	780	782	783	rBV2	22602	27332	1.06%	0.108%
32	11.162	792	794	797	rVB3	18004	27780	1.08%	0.110%
33	11.208	797	798	800	rVB2	31228	31357	1.22%	0.124%
34	11.288	800	805	806	rBV	93211	145593	5.65%	0.577%

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 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	11.413	813	816	819	rBV	587296	1345113	52.19%	5.327%
36	11.482	819	822	824	rVV	202229	194427	7.54%	0.770%
37	11.631	833	835	837	rBV2	67743	81185	3.15%	0.322%
38	11.711	839	842	843	rBV	71994	67884	2.63%	0.269%
39	11.882	853	857	858	rBV2	21073	46281	1.80%	0.183%
40	11.905	858	859	860	rVV	69679	74244	2.88%	0.294%
41	11.939	860	862	863	rVV	103663	103267	4.01%	0.409%
42	11.985	863	866	867	rVV2	44898	65903	2.56%	0.261%
43	12.019	867	869	874	rVV2	138230	226652	8.79%	0.898%
44	12.111	876	877	879	rVV	45742	54317	2.11%	0.215%
45	12.202	883	885	886	rVV2	61816	69522	2.70%	0.275%
46	12.282	890	892	894	rVV3	16769	32873	1.28%	0.130%
47	12.396	900	902	905	rBV2	37135	61908	2.40%	0.245%
48	12.453	905	907	909	rBV	53235	70019	2.72%	0.277%
49	12.499	909	911	913	rVB2	52921	79985	3.10%	0.317%
50	12.545	913	915	919	rVB3	28775	38769	1.50%	0.154%
51	12.614	919	921	923	rBV	603720	654406	25.39%	2.592%
52	12.648	923	924	926	rBV2	14455	26312	1.02%	0.104%
53	12.842	938	941	943	rBV	562859	660907	25.64%	2.617%
54	12.991	951	954	957	rVB	1983021	2019597	78.36%	7.998%
55	13.071	957	961	962	rBV2	24536	34600	1.34%	0.137%
56	13.174	969	970	972	rVB	101402	76088	2.95%	0.301%
57	13.242	974	976	977	rVV2	79876	99392	3.86%	0.394%
58	13.276	977	979	983	rVB3	76341	147671	5.73%	0.585%
59	13.471	994	996	999	rVB2	64476	94301	3.66%	0.373%
60	13.574	1003	1005	1006	rBV	57101	64057	2.49%	0.254%
61	13.791	1021	1024	1025	rBV3	50012	82156	3.19%	0.325%
62	13.882	1030	1032	1038	rVB2	129212	214472	8.32%	0.849%
63	14.042	1043	1046	1047	rBV2	633371	803736	31.19%	3.183%
64	14.145	1054	1055	1057	rVB	57181	47350	1.84%	0.188%
65	14.214	1059	1061	1064	rVV3	39316	73955	2.87%	0.293%
66	14.419	1077	1079	1081	rVB2	56491	76626	2.97%	0.303%
67	14.522	1086	1088	1089	rBV2	51197	58661	2.28%	0.232%
68	14.614	1094	1096	1100	rBV4	39921	64464	2.50%	0.255%
69	15.071	1133	1136	1140	rVB	163156	391118	15.18%	1.549%
70	15.357	1158	1161	1164	rBV	109087	142727	5.54%	0.565%
71	15.414	1164	1166	1169	rBV	132077	174430	6.77%	0.691%

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Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	15.482	1169	1172	1174	rBV	332752	460993	17.89%	1.826%
73	16.168	1230	1232	1238	rVB	47498	104606	4.06%	0.414%
74	16.591	1267	1269	1276	rVB4	40340	102116	3.96%	0.404%
75	16.900	1293	1296	1300	rVB2	69750	142049	5.51%	0.563%
76	17.323	1330	1333	1340	rVB	61004	135889	5.27%	0.538%
77	17.563	1351	1354	1360	rVB2	13873	40455	1.57%	0.160%
78	19.506	1518	1524	1527	rBV4	14822	60509	2.35%	0.240%

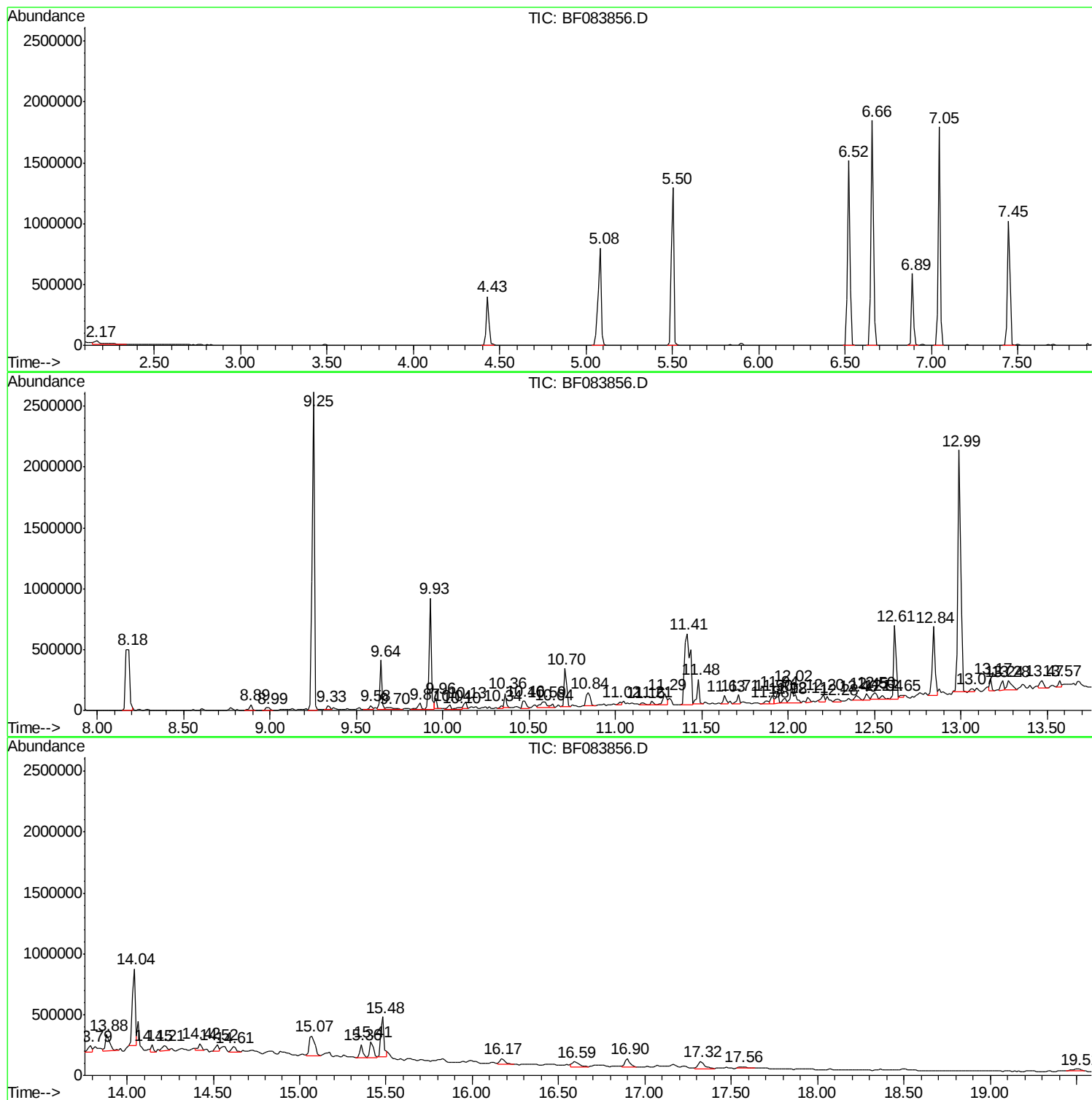
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Instrument :
BNA_F
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LIBERTY-SF-003

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.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\BF121615\
Data File : BF083856.D
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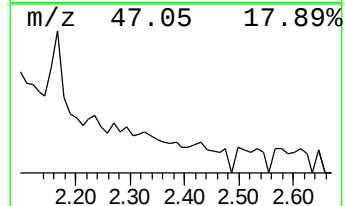
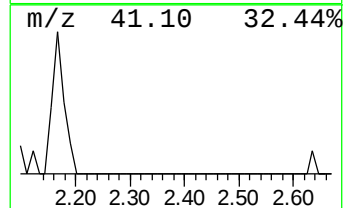
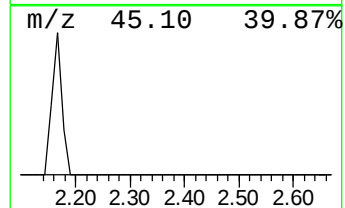
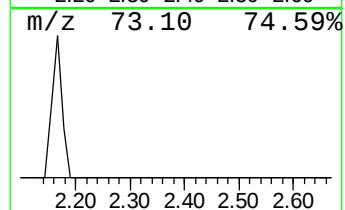
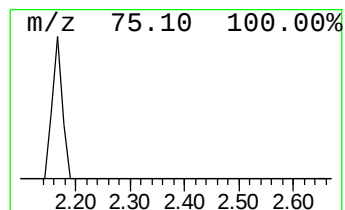
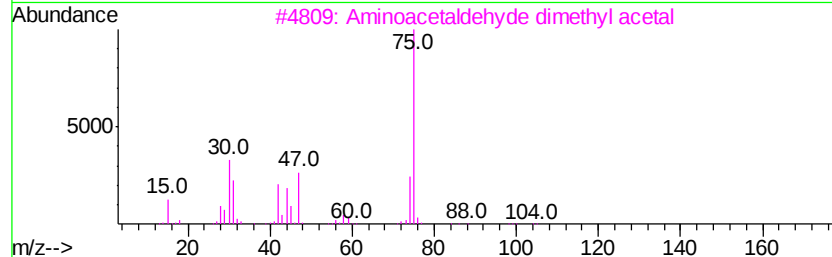
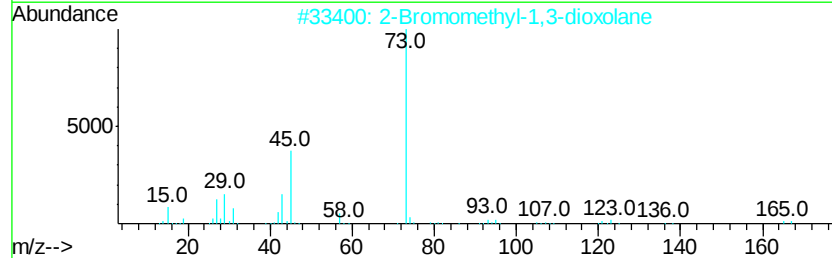
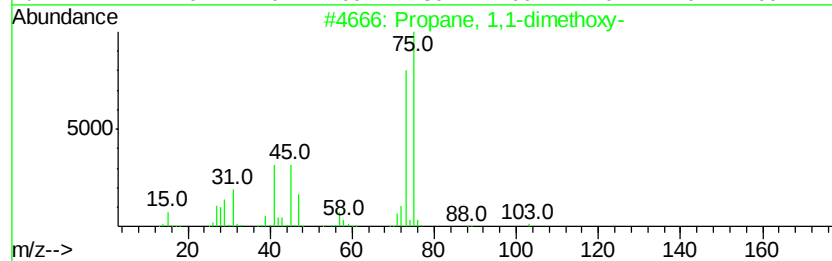
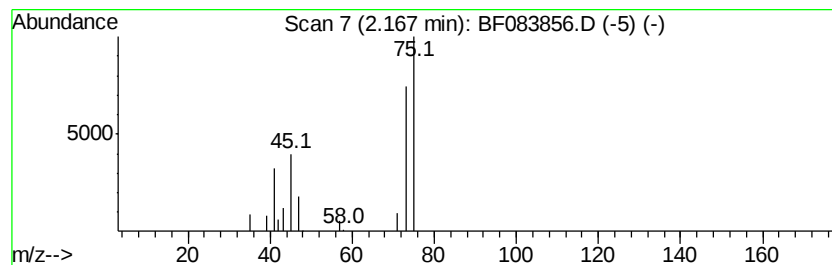
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 Propane, 1,1-dimethoxy- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.17	2.93 ng	76158	1,4-Dichlorobenzene-d4	6.89

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Propane, 1,1-dimethoxy-	104	C5H12O2	004744-10-9	50	
2	2-Bromomethyl-1,3-dioxolane	166	C4H7BrO2	004360-63-8	4	
3	Aminoacetaldehyde dimethyl acetal	105	C4H11NO2	022483-09-6	4	
4	Glycine	75	C2H5NO2	000056-40-6	4	
5	2-Methyl-5-hexen-3-ol	114	C7H14O	032815-70-6	4	



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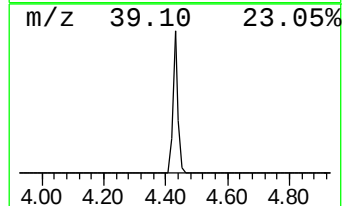
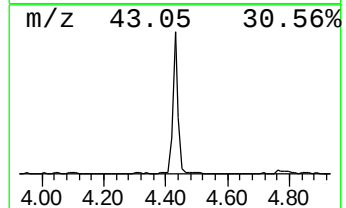
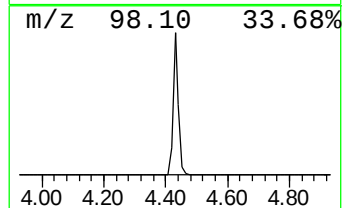
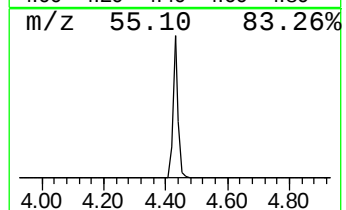
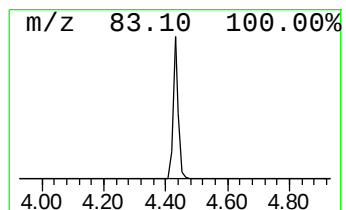
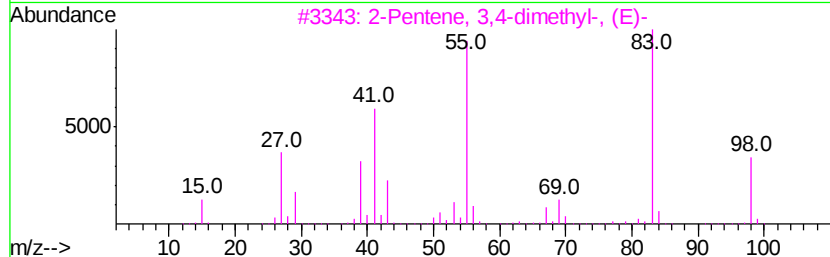
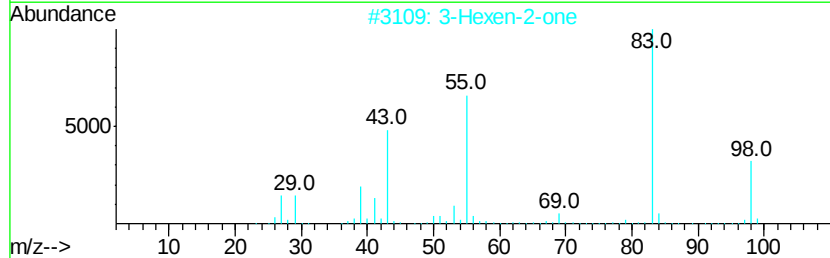
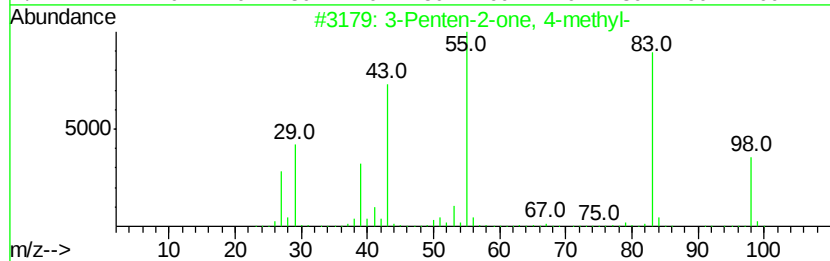
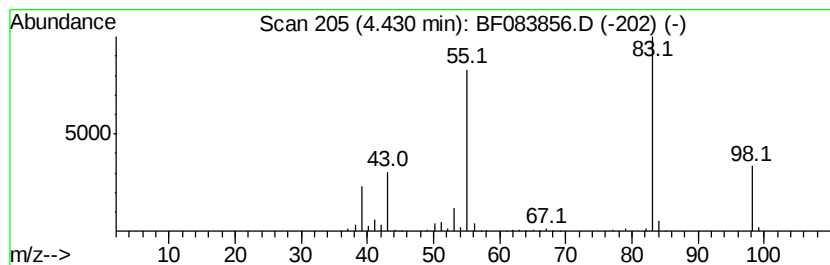
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 3-Penten-2-one, 4-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.43	17.49 ng	454989	1,4-Dichlorobenzene-d4	6.89

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	91
2		3-Hexen-2-one	98	C6H10O	000763-93-9	91
3		2-Pentene, 3,4-dimethyl-, (E)-	98	C7H14	004914-92-5	90
4		2-Pentene, 3,4-dimethyl-, (Z)-	98	C7H14	004914-91-4	86
5		2-Pentene, 4,4-dimethyl-, (E)-	98	C7H14	000690-08-4	80



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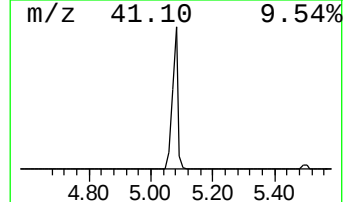
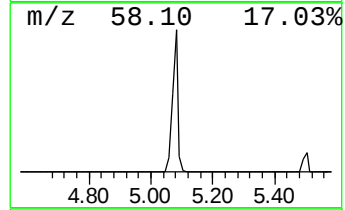
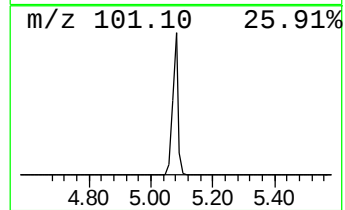
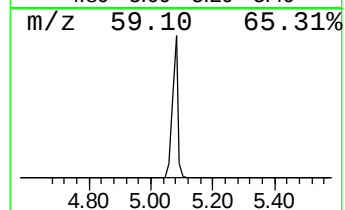
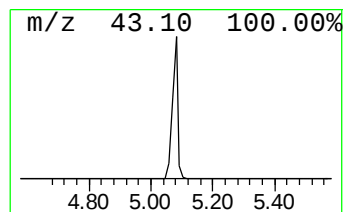
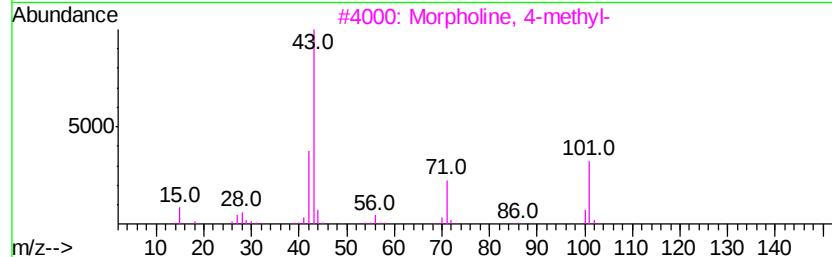
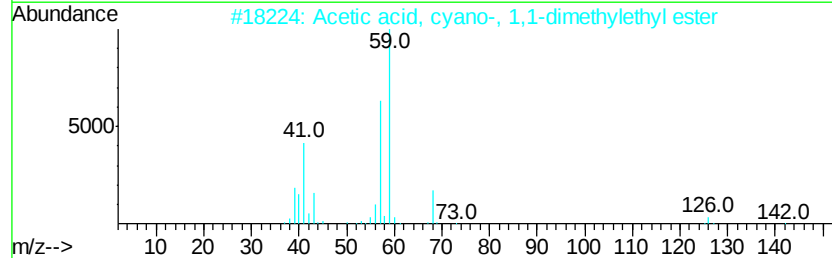
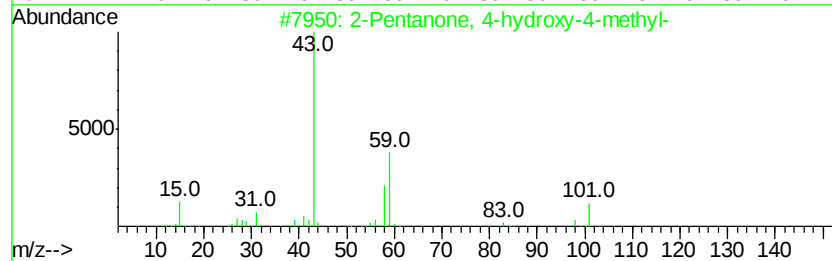
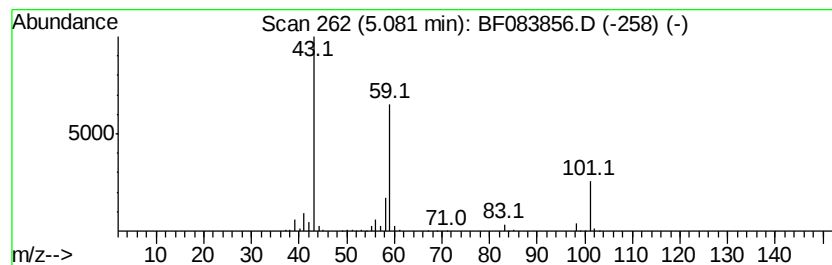
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.08	37.44 ng	973751	1,4-Dichlorobenzene-d4	6.89

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2		Acetic acid, cyano-, 1,1-dimethyl...	141	C7H11NO2	001116-98-9	25
3		Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
4		5-Hexen-2-one	98	C6H10O	000109-49-9	9
5		Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9



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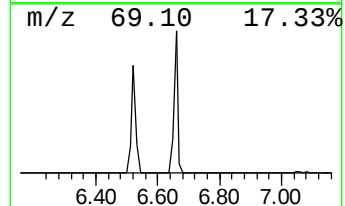
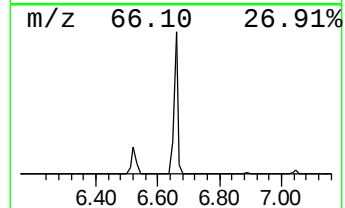
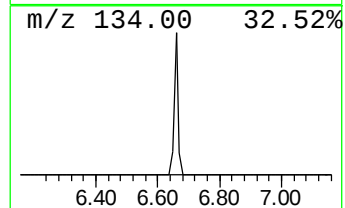
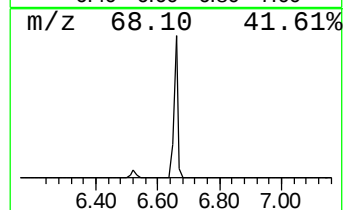
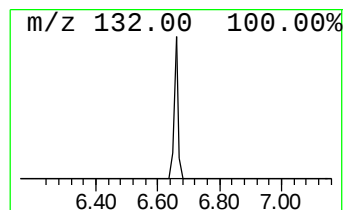
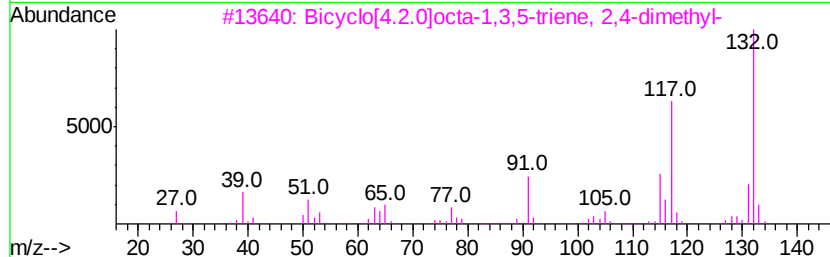
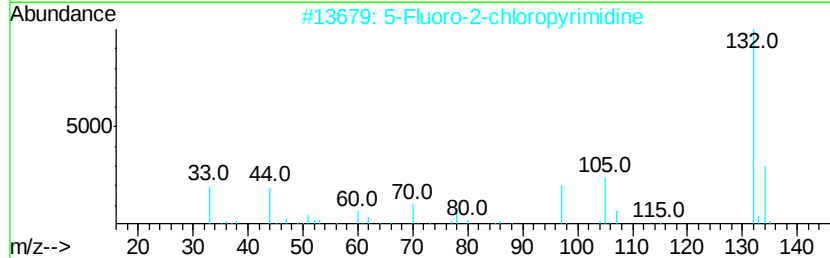
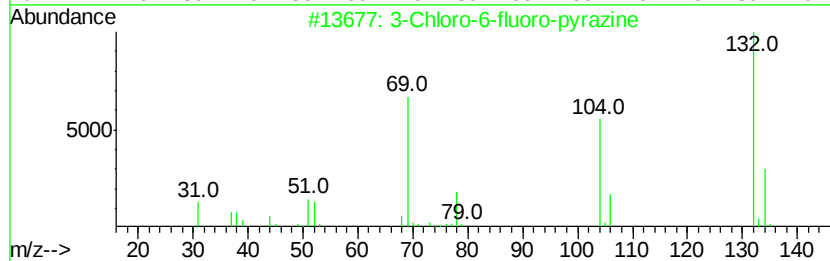
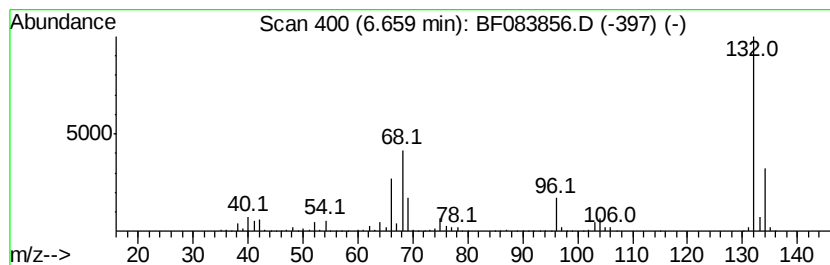
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 unknown6.66 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.66	63.83 ng	1660310	1,4-Dichlorobenzene-d4	6.89

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
2		5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12
3		Bicyclo[4.2.0]octa-1,3,5-triene,...	132	C10H12	028749-81-7	9
4		2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9
5		5-Aminoindole	132	C8H8N2	005192-03-0	9



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121615\
Data File : BF083856.D
Acq On : 16 Dec 2015 18:57
Operator : UM/SJ
Sample : G4836-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

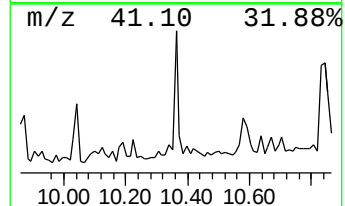
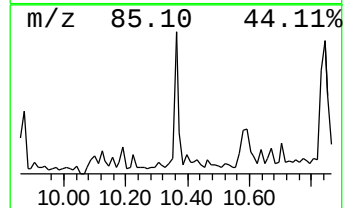
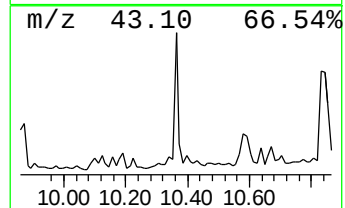
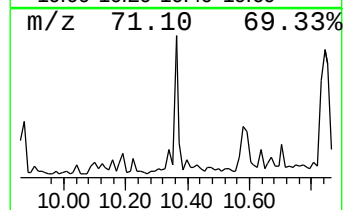
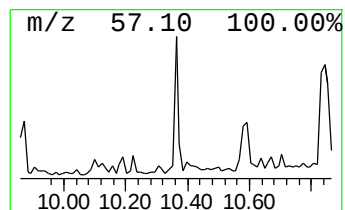
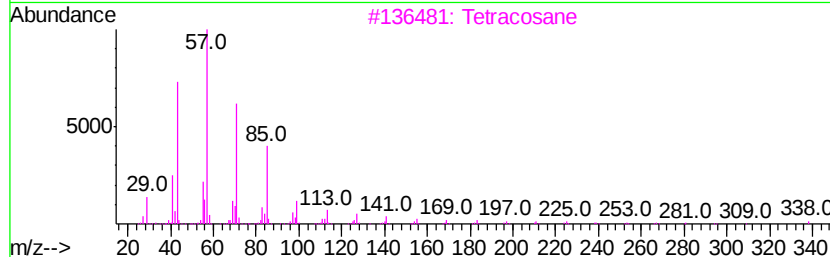
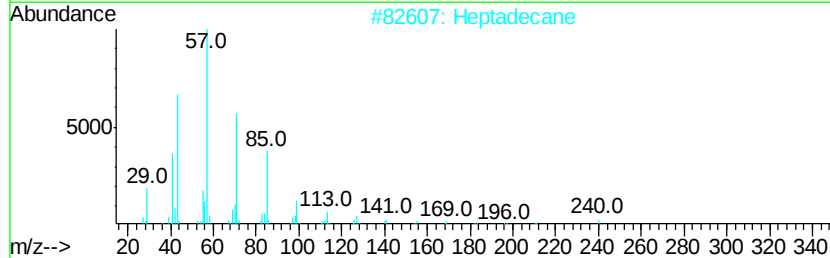
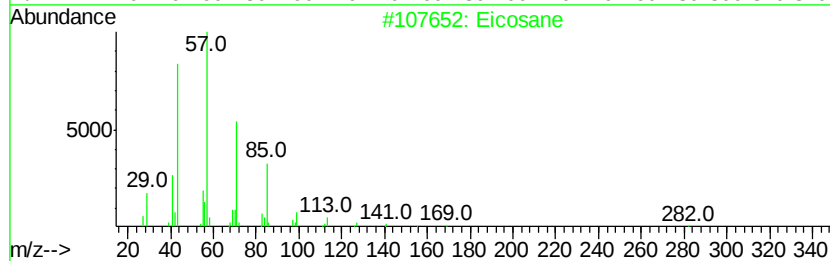
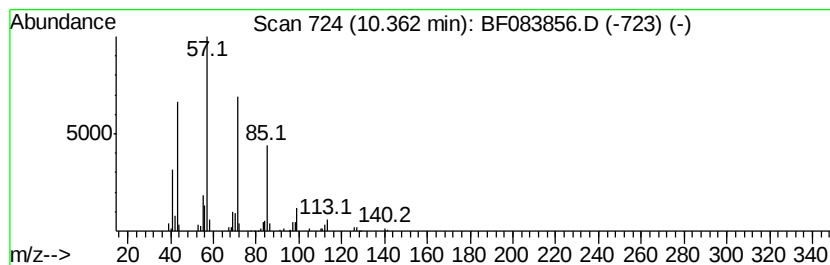
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Eicosane Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.36	2.22 ng	98326	Acenaphthene-d10	9.93
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Eicosane	282 C20H42	000112-95-8	90
2	Heptadecane	240 C17H36	000629-78-7	90
3	Tetracosane	338 C24H50	000646-31-1	86
4	Tetradecane	198 C14H30	000629-59-4	86
5	Heptacosane	380 C27H56	000593-49-7	83



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121615\
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Sample : G4836-01
Misc :
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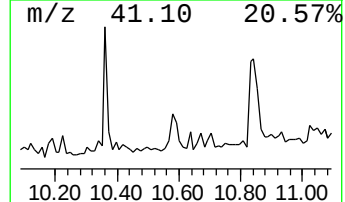
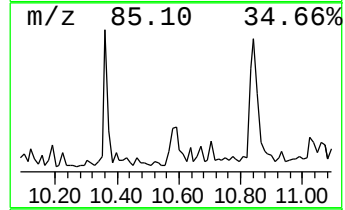
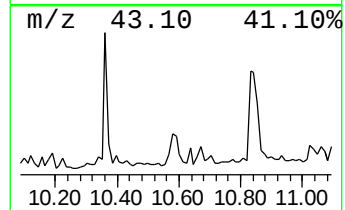
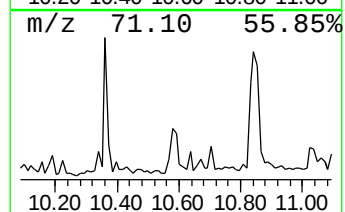
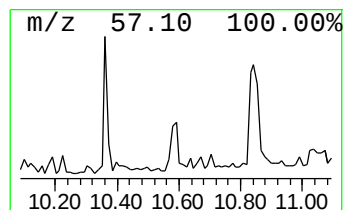
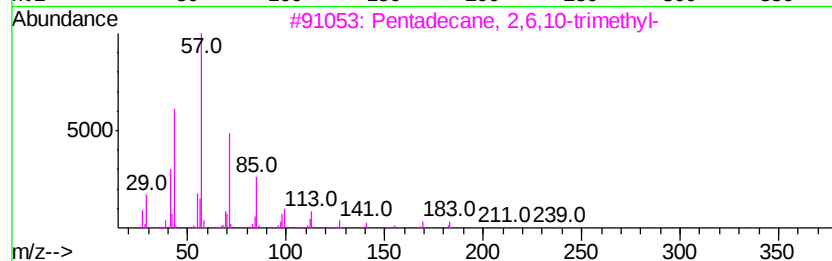
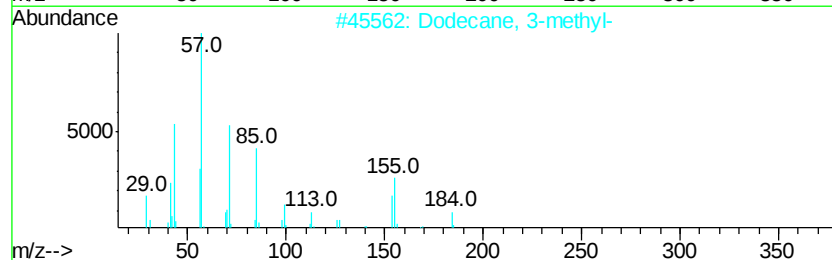
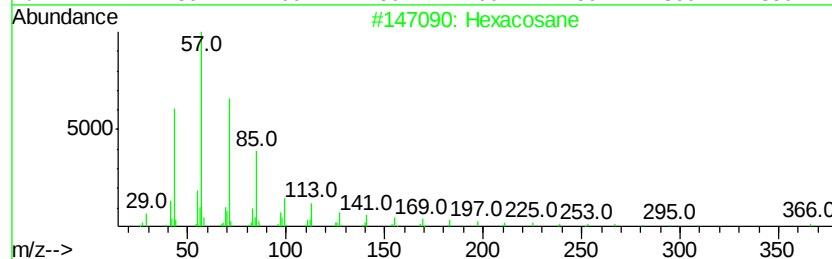
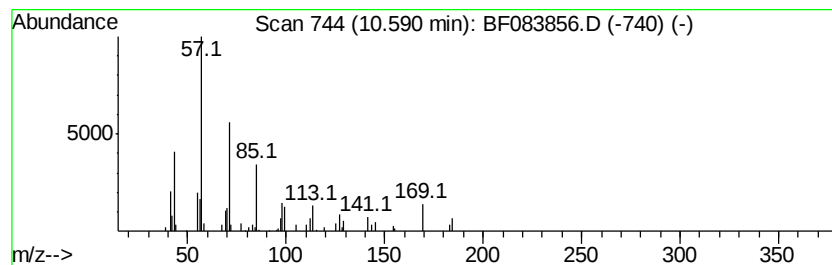
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Hexacosane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.59	2.46 ng	108867	Acenaphthene-d10	9.93
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1	Hexacosane	366 C26H54	000630-01-3	80
2	Dodecane, 3-methyl-	184 C13H28	017312-57-1	74
3	Pentadecane, 2,6,10-trimethyl-	254 C18H38	003892-00-0	72
4	Decane, 2,6,8-trimethyl-	184 C13H28	062108-26-3	70
5	Tridecane	184 C13H28	000629-50-5	68



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121615\
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Operator : UM/SJ
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Misc :
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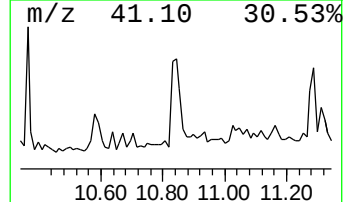
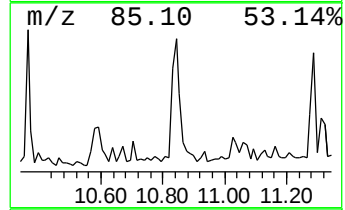
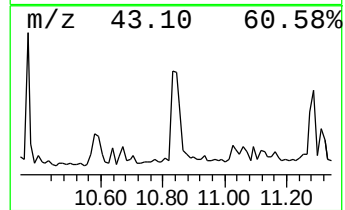
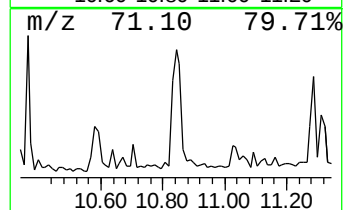
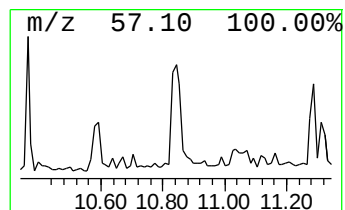
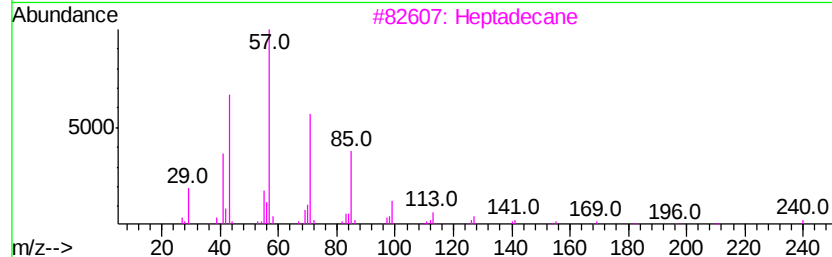
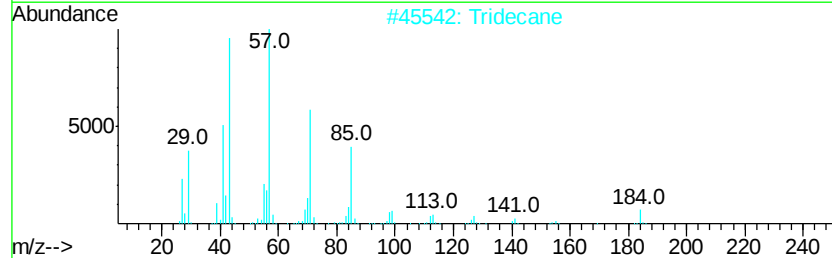
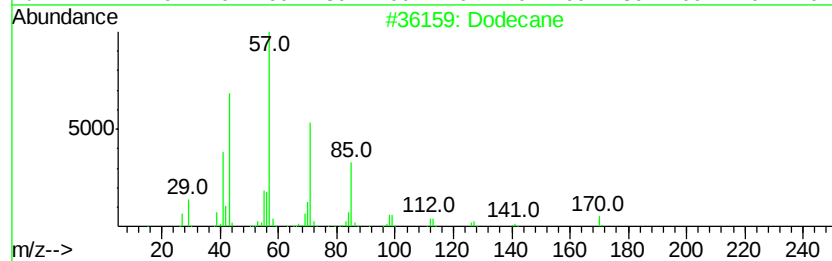
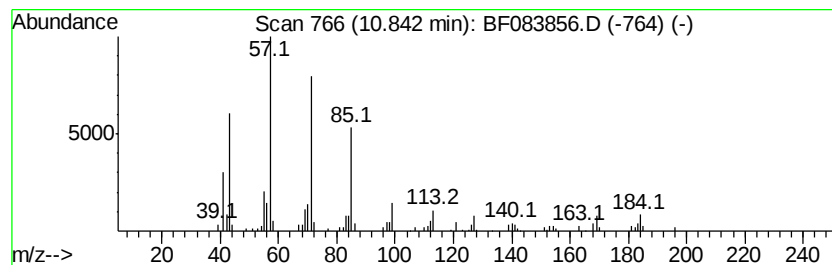
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Dodecane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD		R.T.	
10.84	2.92 ng	196264	Phenanthrene-d10		11.41	
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane		170	C12H26	000112-40-3	87
2	Tridecane		184	C13H28	000629-50-5	87
3	Heptadecane		240	C17H36	000629-78-7	87
4	Hexadecane		226	C16H34	000544-76-3	86
5	Pentadecane		212	C15H32	000629-62-9	86



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121615\
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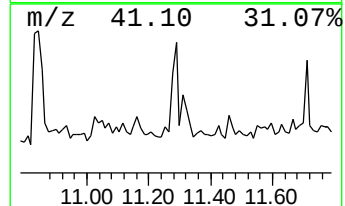
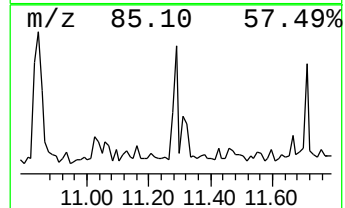
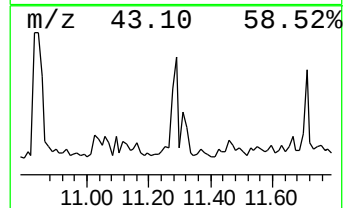
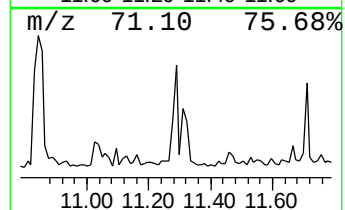
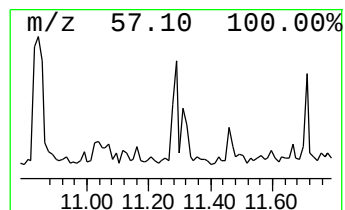
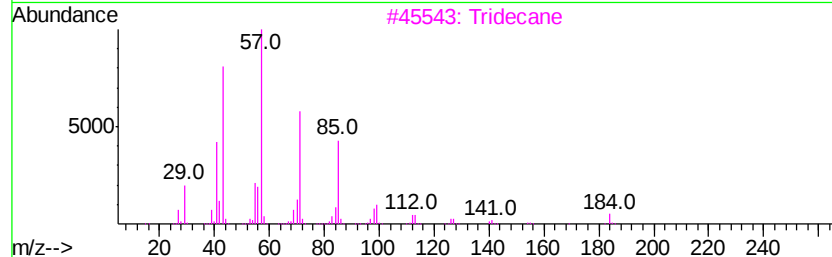
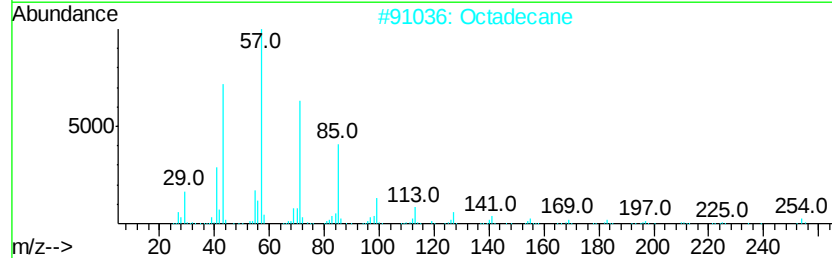
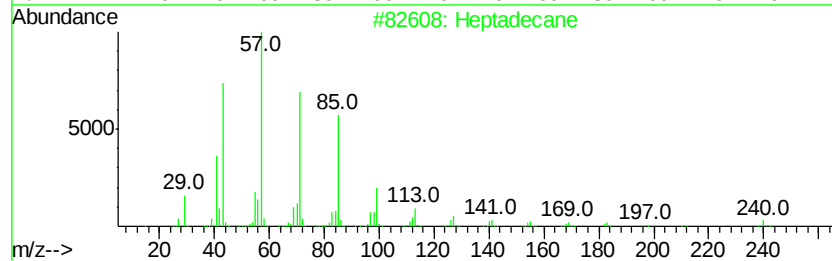
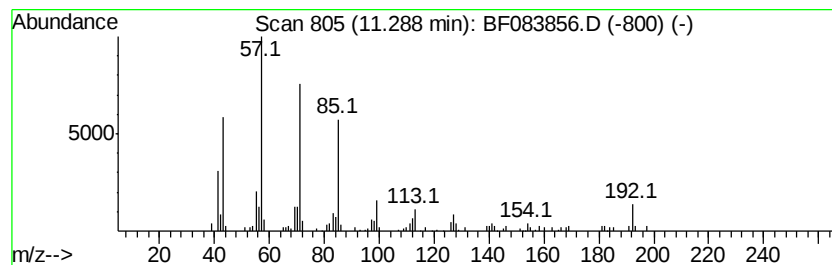
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Heptadecane Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD		R.T.	
11.29	2.16 ng	145593	Phenanthrene-d10		11.41	
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane		240	C17H36	000629-78-7	87
2	Octadecane		254	C18H38	000593-45-3	86
3	Tridecane		184	C13H28	000629-50-5	86
4	Dodecane, 2-methyl-		184	C13H28	001560-97-0	80
5	Eicosane		282	C20H42	000112-95-8	80



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121615\
Data File : BF083856.D
Acq On : 16 Dec 2015 18:57
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Misc :
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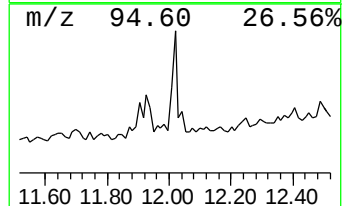
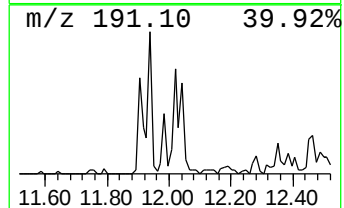
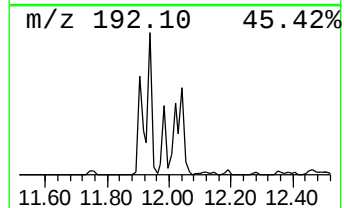
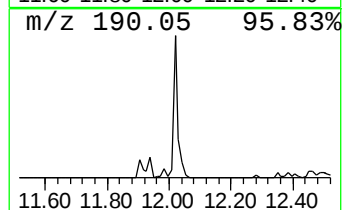
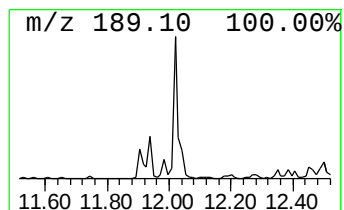
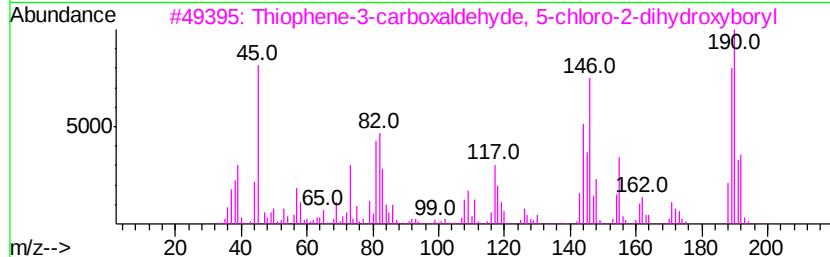
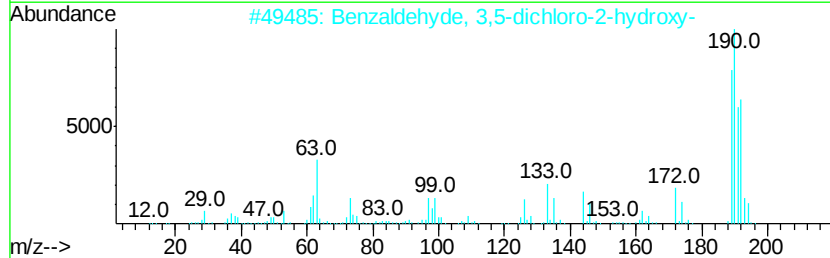
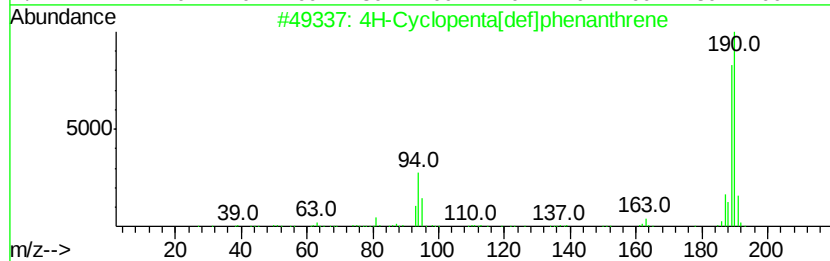
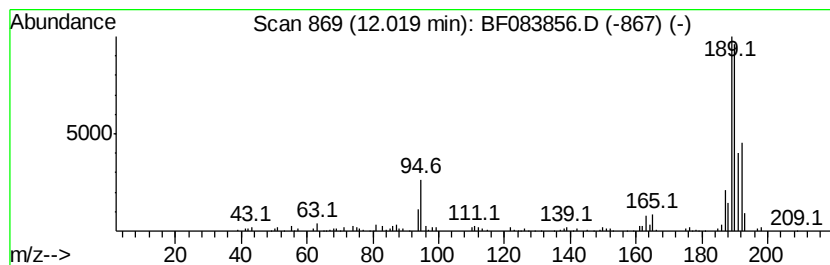
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.02	3.37 ng	226652	Phenanthrene-d10	11.41

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	70
2		Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	50
3		Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	50
4		4,4'-Difluorobiphenyl	190	C12H8F2	000398-23-2	17
5		1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	17



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121615\
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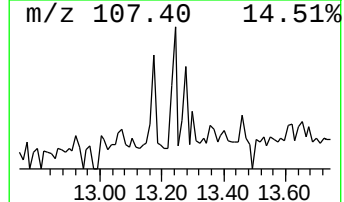
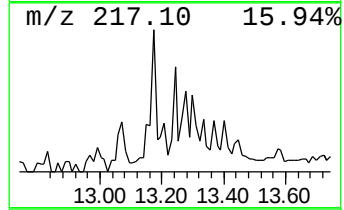
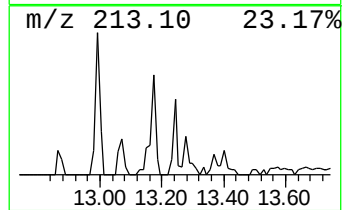
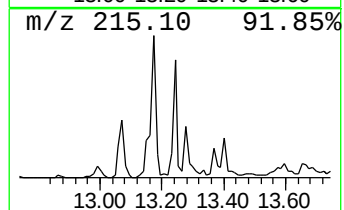
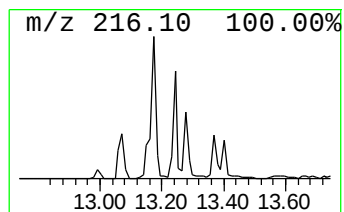
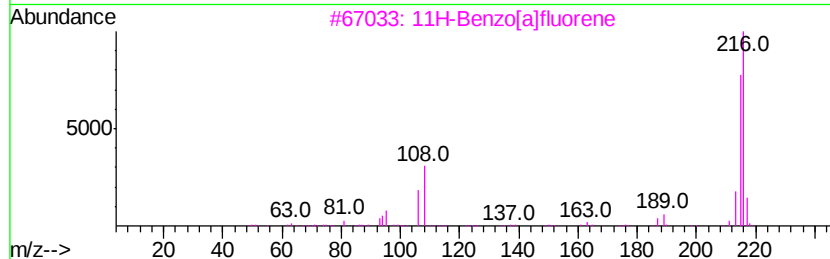
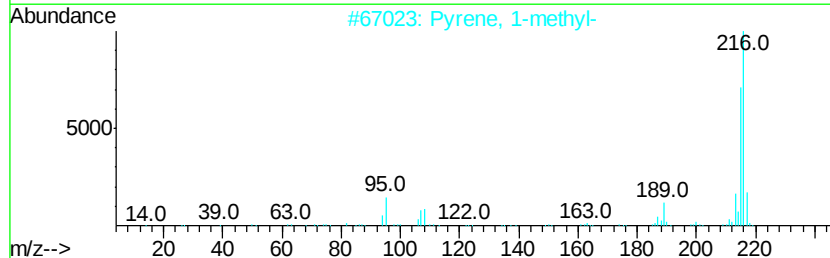
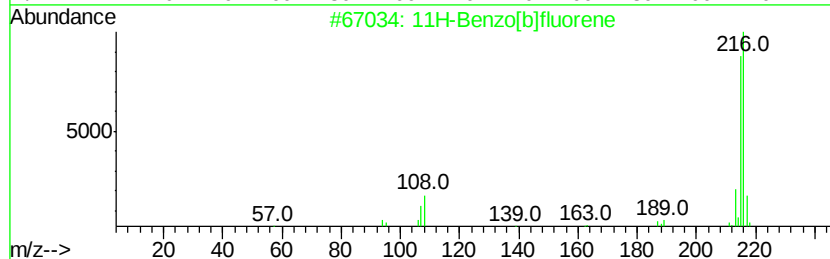
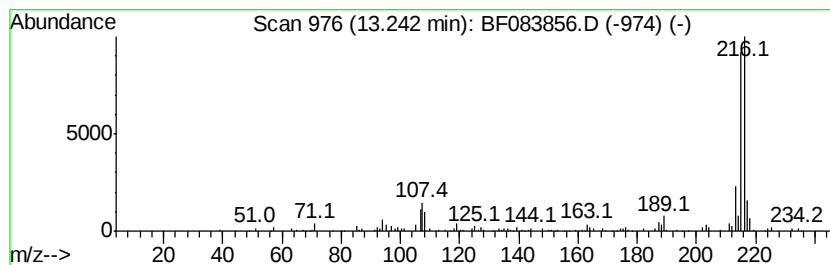
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 11H-Benzo[b]fluorene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD		R.T.		
13.24	2.47 ng	99392	Chrysene-d12		14.04		
Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90
2			Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
3			11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
4			Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	76
5			Pyrene, 2-methyl-	216	C17H12	003442-78-2	70



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121615\
Data File : BF083856.D
Acq On : 16 Dec 2015 18:57
Operator : UM/SJ
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Misc :
ALS Vial : 15 Sample Multiplier: 1

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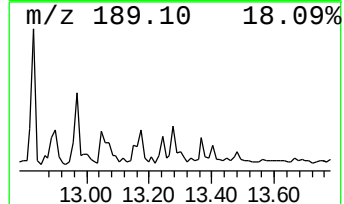
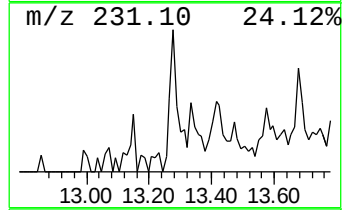
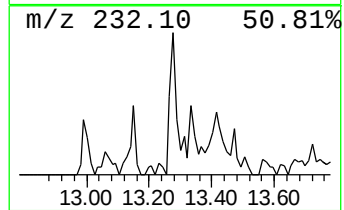
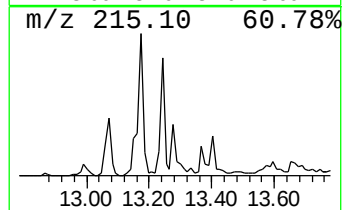
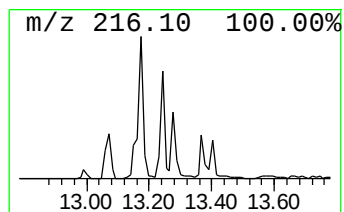
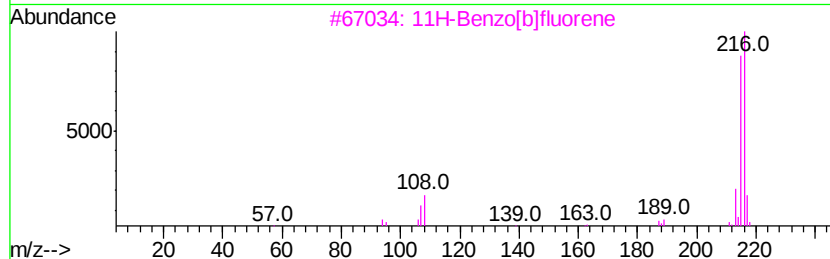
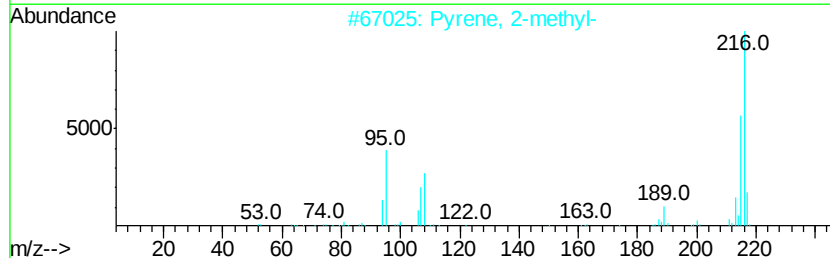
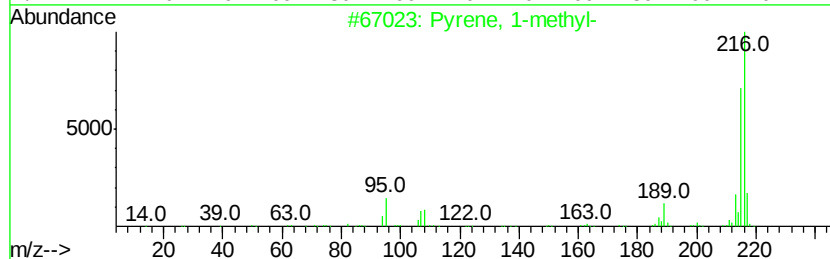
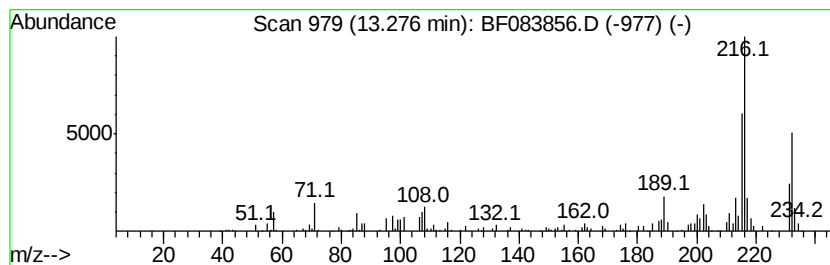
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Pyrene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.28	3.67 ng	147671	Chrysene-d12	14.04

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	92
2		Pyrene, 2-methyl-	216	C17H12	003442-78-2	64
3		11H-Benzo[b]fluorene	216	C17H12	000243-17-4	60
4		11H-Benzo[a]fluorene	216	C17H12	000238-84-6	58
5		Pyrene, 4-methyl-	216	C17H12	003353-12-6	52



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121615\
Data File : BF083856.D
Acq On : 16 Dec 2015 18:57
Operator : UM/SJ
Sample : G4836-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-003

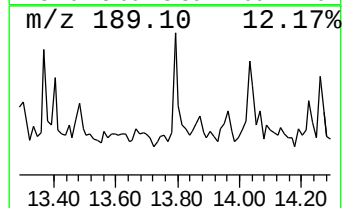
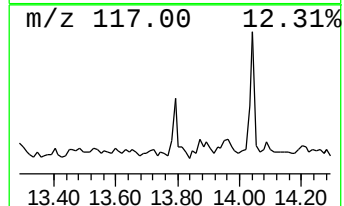
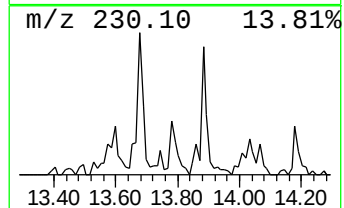
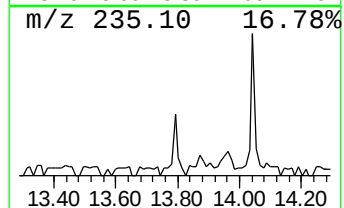
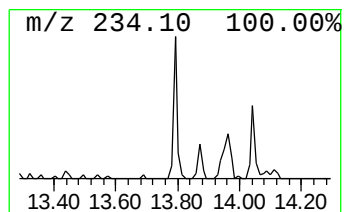
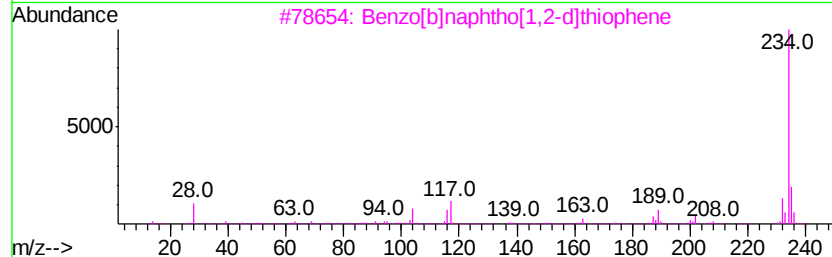
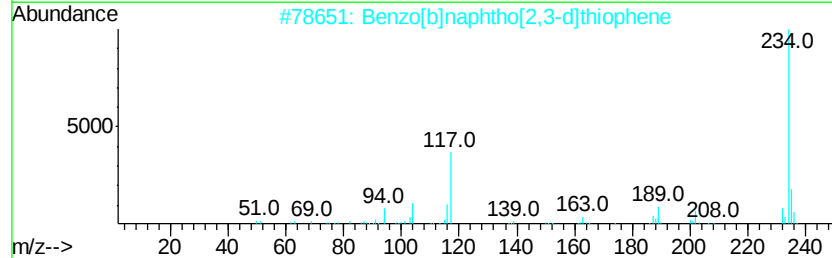
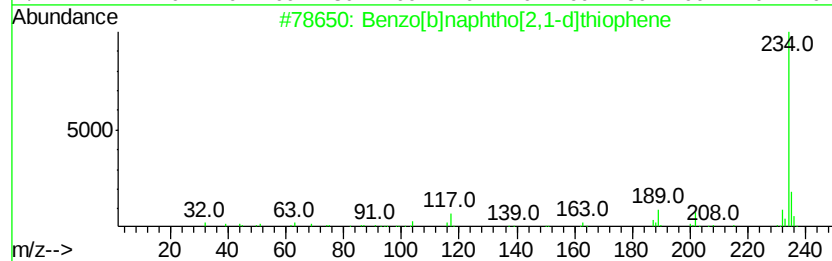
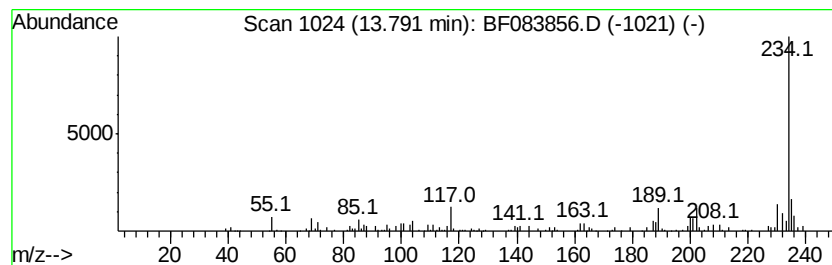
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.79	2.04 ng	82156	Chrysene-d12	14.04

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	95
2		Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	91
3		Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	90
4		Benzo[1,2-b:4,3-b']dithiophene-4...	234	C11H6O2S2	041552-35-6	64
5		Imidazole, 4-pentafluorophenyl-	234	C9H3F5N2	081769-58-6	58



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121615\
Data File : BF083856.D
Acq On : 16 Dec 2015 18:57
Operator : UM/SJ
Sample : G4836-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-003

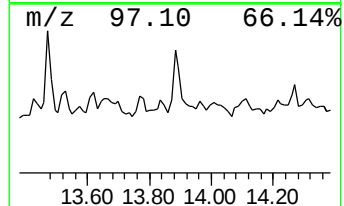
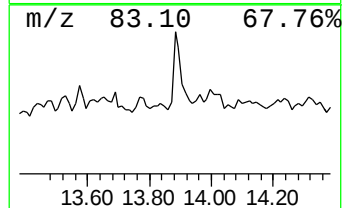
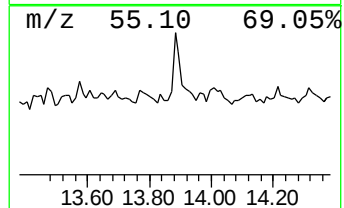
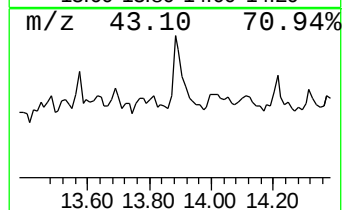
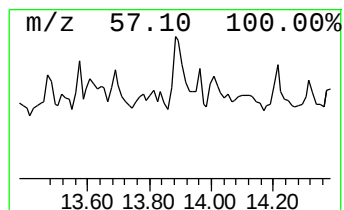
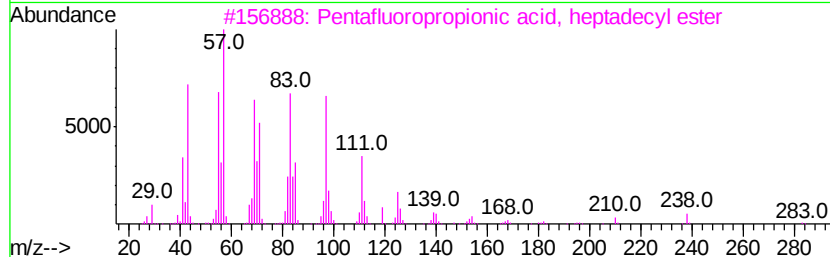
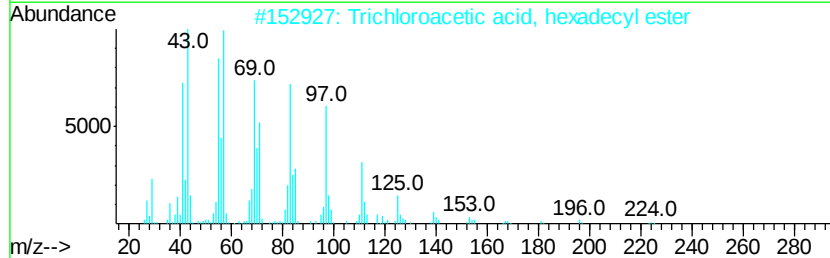
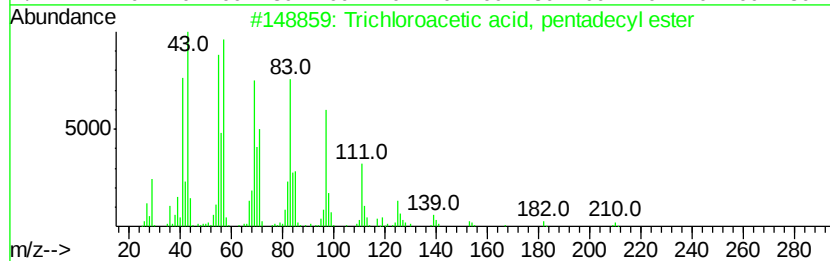
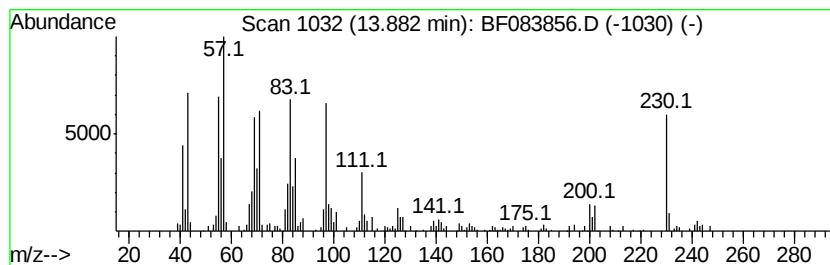
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Trichloroacetic acid, penta... Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.88	5.34 ng	214472	Chrysene-d12	14.04

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	70
2			Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	70
3			Pentafluoropropionic acid, hepta...	402	C20H35F5O2	1000283-04-2	62
4			Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	62
5			3-Chloropropionic acid, heptadec...	346	C20H39ClO2	1000283-05-1	60



Data Path : Z:\HPCHEM1\BNA F\DATA\BF121615\
Data File : BF083856.D
Acq On : 16 Dec 2015 18:57
Operator : UM/SJ
Sample : G4836-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
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ClientSampleId :
LIBERTY-SF-003

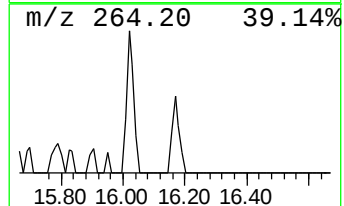
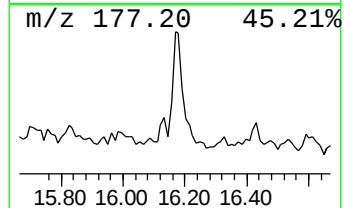
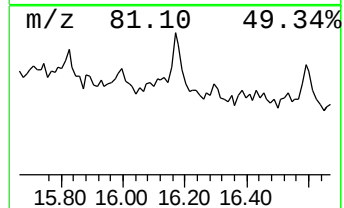
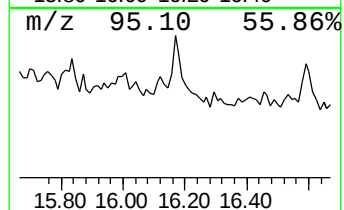
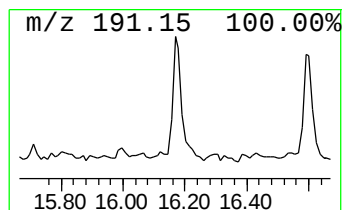
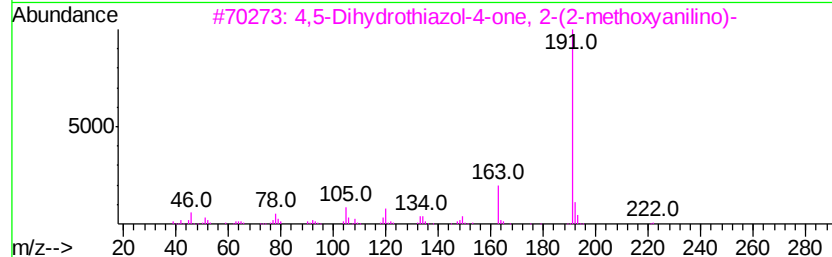
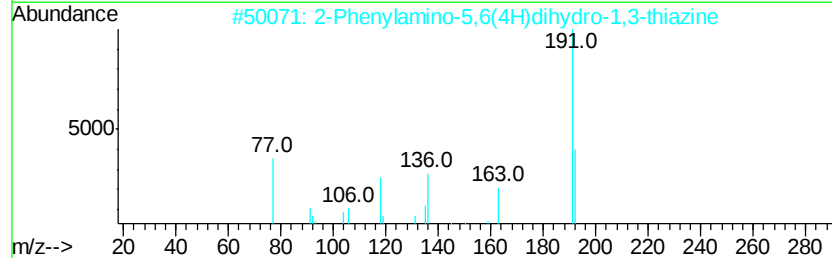
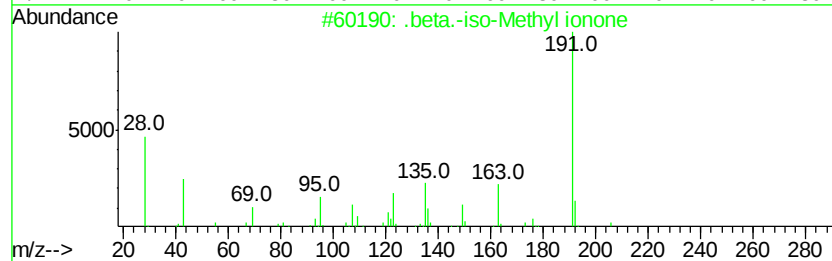
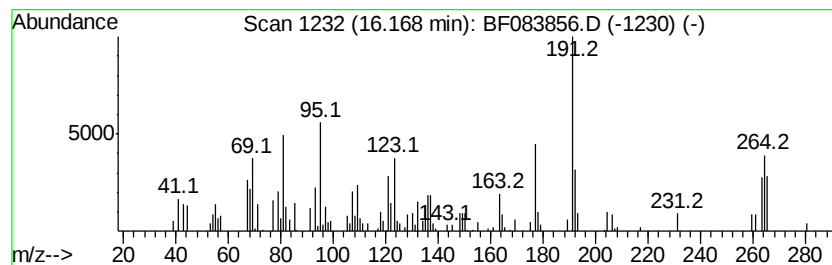
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 unknown16.17 Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.17	4.54 ng	104606	Perylene-d12	15.48

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	.beta.-iso-Methyl ionone	206	C14H22O	1000285-40-2	32
2		2-Phenylamino-5,6(4H)dihydro-1,3...	192	C10H12N2S	1000147-35-4	22
3		4,5-Dihydrothiazol-4-one, 2-(2-m...	222	C10H10N2O2S	022476-61-5	22
4		Anthracene, 9-(4-methoxybutyl)-	264	C19H20O	144000-76-0	16
5		1-Cyclohexene, 1,3,3-trimethyl-2...	206	C14H22O	1000197-08-4	16



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121615\
Data File : BF083856.D
Acq On : 16 Dec 2015 18:57
Operator : UM/SJ
Sample : G4836-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

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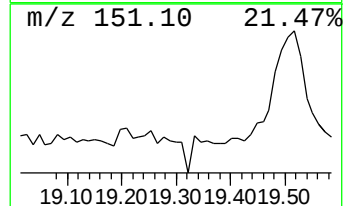
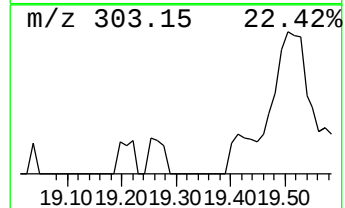
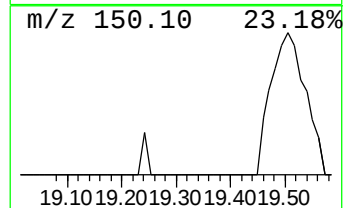
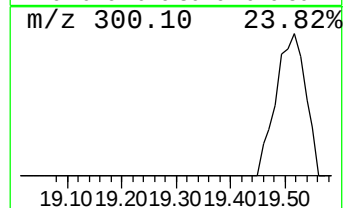
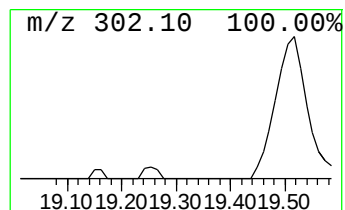
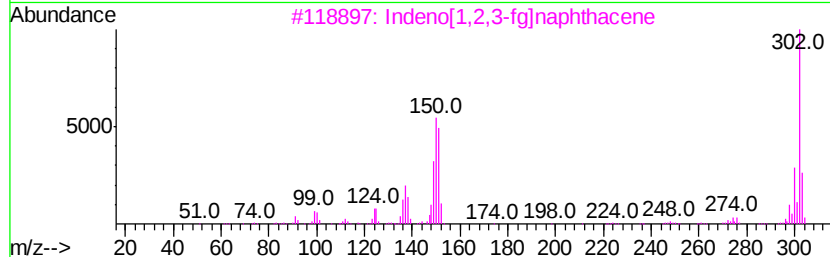
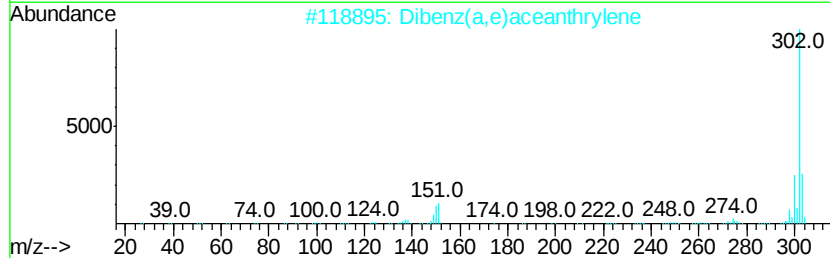
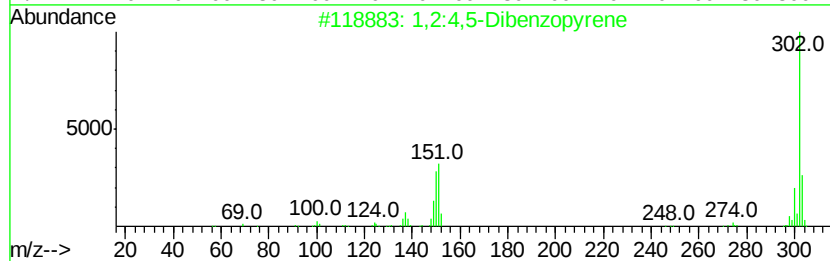
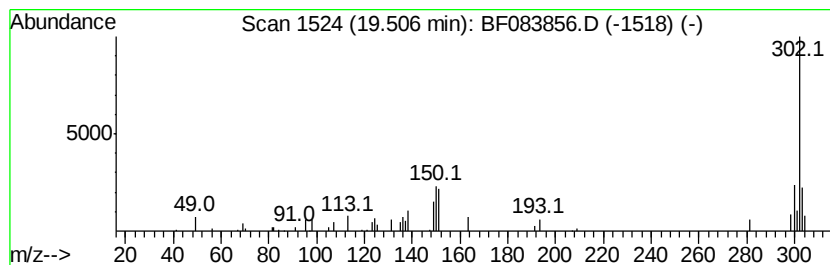
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 1,2:4,5-Dibenzopyrene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.51	2.63 ng	60509	Perylene-d12	15.48

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	80
2		Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	72
3		Indeno[1,2,3-fg]naphthacene	302	C24H14	000203-11-2	64
4		1,2:3,4-Dibenzopyrene	302	C24H14	000191-30-0	64
5		3,4:9,10-Dibenzopyrene	302	C24H14	000189-55-9	64



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121615\
Data File : BF083856.D
Acq On : 16 Dec 2015 18:57
Operator : UM/SJ
Sample : G4836-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
LIBERTY-SF-003

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121315.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
Propane, 1,1-dime...	2.17	2.9	ng	76158	1	6.89	520225	20.0
3-Penten-2-one, 4...	4.43	17.5	ng	454989	1	6.89	520225	20.0
2-Pentanone, 4-hy...	5.08	37.4	ng	973751	1	6.89	520225	20.0
unknown6.66	6.66	63.8	ng	1660310	1	6.89	520225	20.0
Eicosane	10.36	2.2	ng	98326	3	9.93	883933	20.0
Hexacosane	10.59	2.5	ng	108867	3	9.93	883933	20.0
Dodecane	10.84	2.9	ng	196264	4	11.41	1345110	20.0
Heptadecane	11.29	2.2	ng	145593	4	11.41	1345110	20.0
4H-Cyclopenta[def...	12.02	3.4	ng	226652	4	11.41	1345110	20.0
11H-Benzo[b]fluorene	13.24	2.5	ng	99392	5	14.04	803736	20.0
Pyrene, 1-methyl-	13.28	3.7	ng	147671	5	14.04	803736	20.0
Benzo[b]naphtho[2...	13.79	2.0	ng	82156	5	14.04	803736	20.0
Trichloroacetic a...	13.88	5.3	ng	214472	5	14.04	803736	20.0
unknown16.17	16.17	4.5	ng	104606	6	15.48	460993	20.0
1,2:4,5-Dibenzopy...	19.51	2.6	ng	60509	6	15.48	460993	20.0