

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050317\
 Data File : BF094859.D
 Acq On : 4 May 2017 4:33
 Operator : SJ/MA
 Sample : I2936-11 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP3-COMP(0.5-4.5FT)

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-BF050217.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	5.019	519	524	539	rBV	234064	409830	6.54%	0.580%
2	5.666	630	634	659	rBV	906850	1434664	22.91%	2.031%
3	7.260	901	905	921	rBV	1067699	1469968	23.47%	2.081%
4	7.383	921	926	938	rVB	1283374	1636012	26.12%	2.316%
5	7.725	979	984	993	rBV	479836	558901	8.92%	0.791%
6	7.960	1019	1024	1032	rBV	1061111	1193639	19.06%	1.690%
7	8.619	1130	1136	1151	rBV	710048	930614	14.86%	1.318%
8	9.742	1322	1327	1332	rBV	648324	743169	11.87%	1.052%
9	11.519	1623	1629	1645	rBV	1423546	1675434	26.75%	2.372%
10	12.207	1741	1746	1759	rBV2	64740	109329	1.75%	0.155%
11	12.571	1803	1808	1813	rBV2	591975	748765	11.96%	1.060%
12	12.618	1813	1816	1825	rVB	274826	349497	5.58%	0.495%
13	12.913	1861	1866	1869	rBV	118759	142871	2.28%	0.202%
14	13.465	1955	1960	1970	rVB	393263	474572	7.58%	0.672%
15	13.742	2003	2007	2012	rBV	106841	135689	2.17%	0.192%
16	13.865	2023	2028	2037	rBV2	748493	985936	15.74%	1.396%
17	14.365	2107	2113	2116	rBV	96149	141298	2.26%	0.200%
18	14.407	2116	2120	2126	rVV2	51459	91824	1.47%	0.130%
19	14.595	2147	2152	2155	rBV2	63863	90508	1.45%	0.128%
20	14.765	2175	2181	2184	rBV2	65475	92869	1.48%	0.131%
21	14.801	2184	2187	2192	rVB	148495	183561	2.93%	0.260%
22	14.971	2212	2216	2219	rBV	449545	600914	9.59%	0.851%
23	15.018	2219	2224	2228	rVV	2503131	3448320	55.06%	4.882%
24	15.095	2230	2237	2246	rVB	1217157	1434574	22.91%	2.031%
25	15.371	2280	2284	2288	rBV	98611	124221	1.98%	0.176%
26	15.459	2296	2299	2302	rBV	99360	115520	1.84%	0.164%
27	15.754	2343	2349	2352	rBV	454890	482038	7.70%	0.682%
28	15.795	2352	2356	2364	rVB	559750	645834	10.31%	0.914%
29	15.865	2364	2368	2371	rBV	279283	316583	5.05%	0.448%
30	15.906	2371	2375	2379	rVV2	938527	1215133	19.40%	1.720%
31	15.942	2379	2381	2386	rVB	313369	328619	5.25%	0.465%
32	16.195	2420	2424	2428	rVV	381675	403615	6.44%	0.571%
33	16.236	2428	2431	2435	rVV	134280	128270	2.05%	0.182%
34	16.401	2455	2459	2463	rBV2	77558	103664	1.66%	0.147%

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050317\
 Data File : BF094859.D
 Acq On : 4 May 2017 4:33
 Operator : SJ/MA
 Sample : I2936-11 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP3-COMP(0.5-4.5FT)

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-BF050217.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	16.448	2463	2467	2470	rVV	92553	108003	1.72%	0.153%
36	16.548	2478	2484	2488	rBV	198567	299155	4.78%	0.424%
37	16.589	2488	2491	2496	rVV2	144703	245388	3.92%	0.347%
38	16.665	2500	2504	2512	rVB2	243341	321791	5.14%	0.456%
39	16.771	2513	2522	2525	rBV	3751612	6262904	100.00%	8.867%
40	16.795	2525	2526	2532	rVB2	114553	111949	1.79%	0.158%
41	16.853	2532	2536	2539	rBV2	156106	190829	3.05%	0.270%
42	16.883	2539	2541	2549	rVB4	54998	115060	1.84%	0.163%
43	16.948	2549	2552	2559	rBV2	219625	354315	5.66%	0.502%
44	17.071	2565	2573	2576	rBV2	3436155	5919685	94.52%	8.381%
45	17.095	2576	2577	2580	rVV	162167	154332	2.46%	0.218%
46	17.142	2580	2585	2588	rVV	206576	247856	3.96%	0.351%
47	17.236	2595	2601	2605	rBV	365057	425420	6.79%	0.602%
48	17.300	2605	2612	2616	rVB2	992925	1309520	20.91%	1.854%
49	17.348	2616	2620	2621	rBV	148950	151165	2.41%	0.214%
50	17.377	2621	2625	2629	rVV	272915	408013	6.51%	0.578%
51	17.412	2629	2631	2636	rVB	106727	127087	2.03%	0.180%
52	17.483	2636	2643	2645	rBV4	282290	454439	7.26%	0.643%
53	17.518	2645	2649	2654	rVB	929379	1098973	17.55%	1.556%
54	17.606	2659	2664	2667	rVB	852454	954561	15.24%	1.351%
55	17.648	2667	2671	2678	rBV2	541136	842022	13.44%	1.192%
56	17.730	2682	2685	2688	rVV3	75811	116840	1.87%	0.165%
57	17.765	2688	2691	2694	rVV	239271	254561	4.06%	0.360%
58	17.800	2694	2697	2702	rVV	199184	258784	4.13%	0.366%
59	17.853	2702	2706	2709	rVB4	57909	94123	1.50%	0.133%
60	17.995	2725	2730	2733	rBV	200134	278618	4.45%	0.394%
61	18.153	2754	2757	2760	rBV2	125279	169270	2.70%	0.240%
62	18.189	2760	2763	2769	rVB	150122	204831	3.27%	0.290%
63	18.318	2780	2785	2788	rBV	358081	485919	7.76%	0.688%
64	18.353	2788	2791	2793	rVV	422178	493402	7.88%	0.699%
65	18.377	2793	2795	2798	rVV	442962	447749	7.15%	0.634%
66	18.406	2798	2800	2805	rVB2	268372	355250	5.67%	0.503%
67	18.459	2805	2809	2814	rVB	228361	261426	4.17%	0.370%
68	18.536	2819	2822	2826	rVB	95151	113772	1.82%	0.161%
69	18.642	2830	2840	2843	rBV2	2367477	4126148	65.88%	5.842%
70	18.683	2843	2847	2850	rVV2	2015298	2912576	46.51%	4.124%
71	18.706	2850	2851	2858	rVB4	162055	160803	2.57%	0.228%

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050317\
 Data File : BF094859.D
 Acq On : 4 May 2017 4:33
 Operator : SJ/MA
 Sample : I2936-11 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP3-COMP(0.5-4.5FT)

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-BF050217.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	18.771	2858	2862	2866	rBV	575718	608584	9.72%	0.862%
73	18.836	2870	2873	2876	rBV	191856	200060	3.19%	0.283%
74	18.906	2882	2885	2889	rVB2	361002	395678	6.32%	0.560%
75	18.953	2889	2893	2899	rBV	217522	274769	4.39%	0.389%
76	19.100	2914	2918	2920	rBV2	184494	234118	3.74%	0.331%
77	19.142	2920	2925	2929	rVV	515543	750105	11.98%	1.062%
78	19.183	2929	2932	2937	rVV2	246614	328944	5.25%	0.466%
79	19.259	2941	2945	2947	rVV2	372381	463585	7.40%	0.656%
80	19.294	2947	2951	2952	rVV3	255334	341196	5.45%	0.483%
81	19.318	2952	2955	2959	rVV3	348093	520798	8.32%	0.737%
82	19.353	2959	2961	2965	rVV2	149229	217967	3.48%	0.309%
83	19.394	2965	2968	2976	rVB2	138197	194439	3.10%	0.275%
84	19.741	3023	3027	3032	rBV	156775	199671	3.19%	0.283%
85	19.918	3050	3057	3059	rBV	1820801	3195365	51.02%	4.524%
86	19.983	3066	3068	3070	rBV	90867	95575	1.53%	0.135%
87	20.018	3070	3074	3077	rVB	450369	529761	8.46%	0.750%
88	20.130	3087	3093	3095	rBV2	143911	276354	4.41%	0.391%
89	20.200	3100	3105	3111	rVV	1022234	1412595	22.55%	2.000%
90	20.265	3111	3116	3120	rVB	1647634	2104497	33.60%	2.979%
91	20.312	3120	3124	3126	rBV2	339319	385950	6.16%	0.546%
92	20.341	3126	3129	3132	rVB	435089	473790	7.57%	0.671%
93	21.288	3286	3290	3296	rBV4	70997	131190	2.09%	0.186%
94	21.436	3311	3315	3317	rBV2	97300	143755	2.30%	0.204%
95	21.606	3337	3344	3351	rBV	661353	1154788	18.44%	1.635%
96	21.747	3364	3368	3372	rBV	151549	278718	4.45%	0.395%
97	21.983	3401	3408	3416	rBV	443866	928567	14.83%	1.315%
98	22.183	3437	3442	3457	rVB	170540	449928	7.18%	0.637%
99	23.894	3726	3733	3744	rVB	130018	397874	6.35%	0.563%
100	24.047	3752	3759	3760	rBV3	94873	161436	2.58%	0.229%

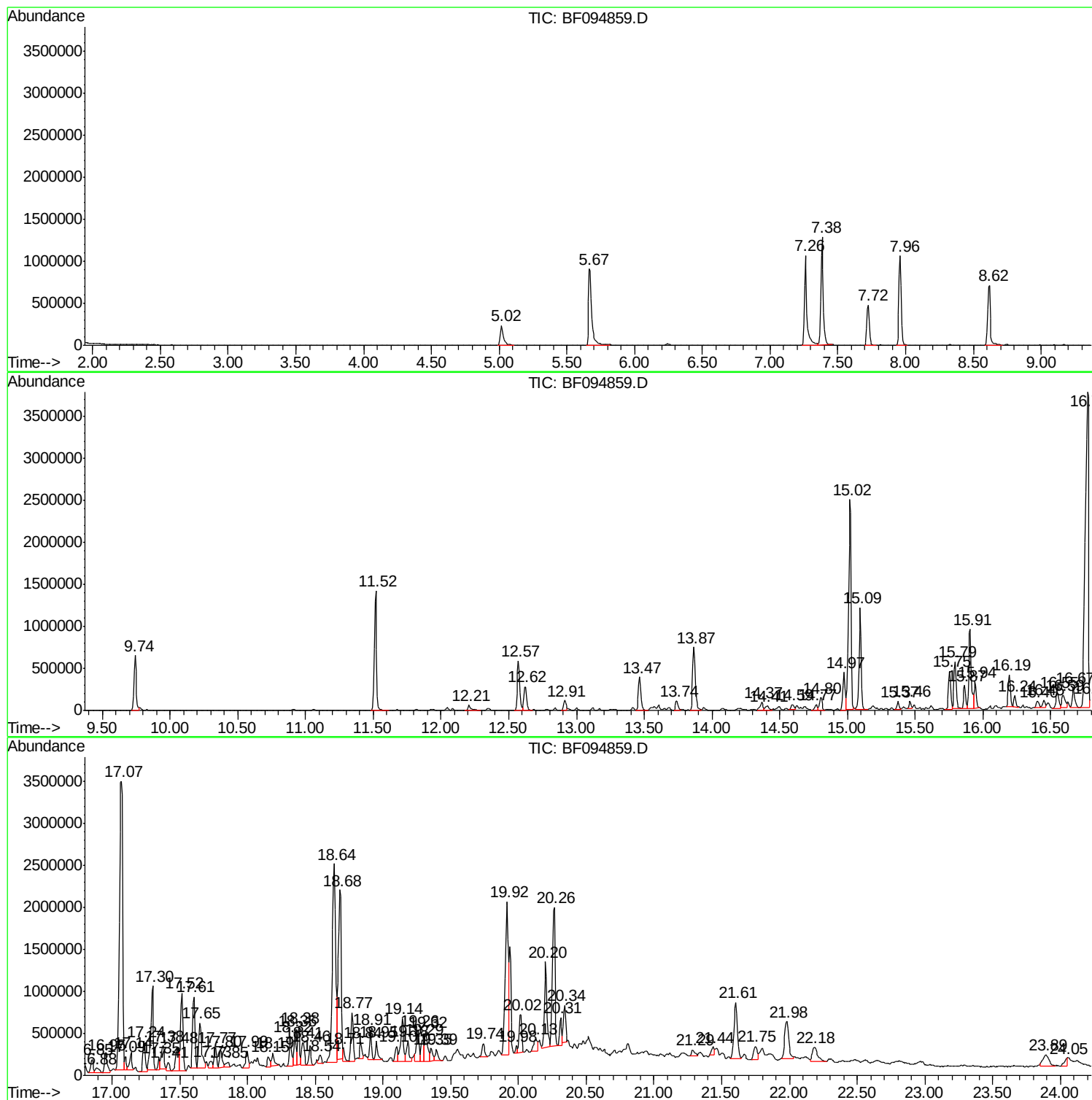
Sum of corrected areas: 70632851

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050317\
Data File : BF094859.D
Acq On : 4 May 2017 4:33
Operator : SJ/MA
Sample : I2936-11 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP3-COMP(0.5-4.5FT)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050317\
Data File : BF094859.D
Acq On : 4 May 2017 4:33
Operator : SJ/MA
Sample : I2936-11 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP3-COMP(0.5-4.5FT)

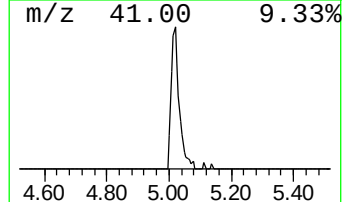
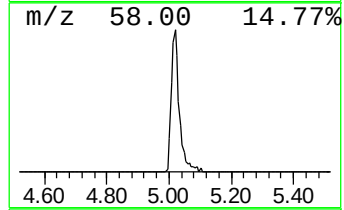
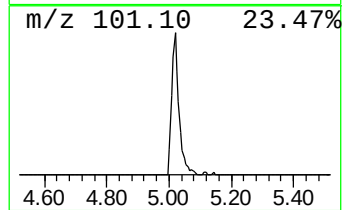
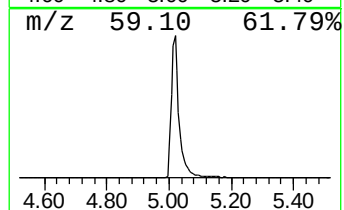
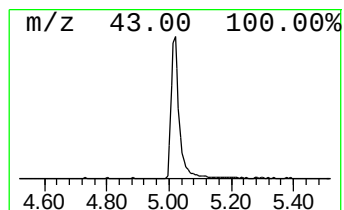
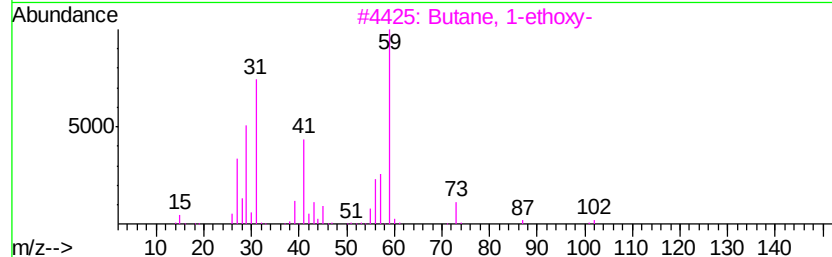
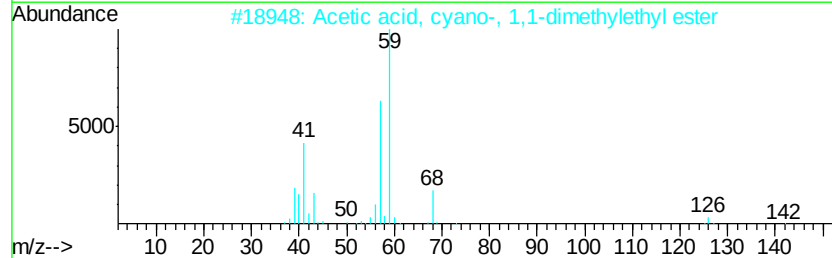
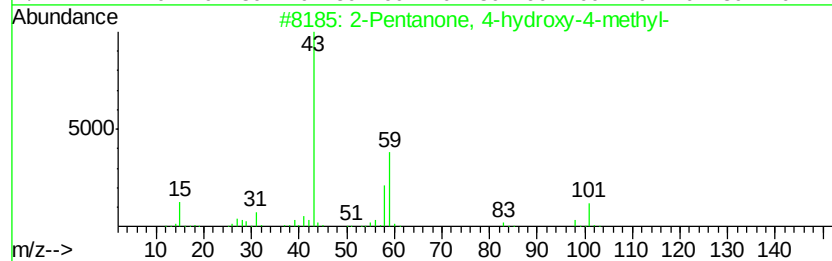
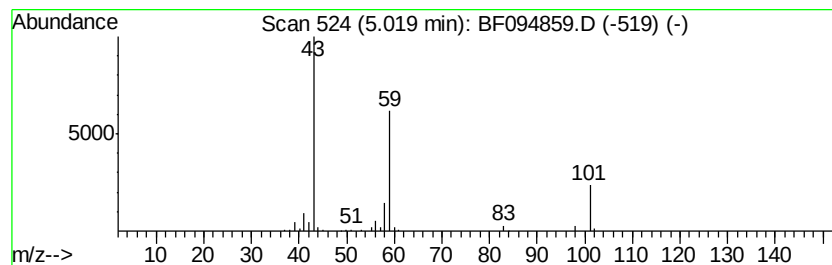
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.02	14.67 ng	409830	1,4-Dichlorobenzene-d4	7.72

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-dimethy...	141	C7H11NO2	001116-98-9	23
3		Butane, 1-ethoxy-	102	C6H14O	000628-81-9	9
4		Propanamide, N-ethyl-	101	C5H11NO	005129-72-6	9
5		Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050317\
Data File : BF094859.D
Acq On : 4 May 2017 4:33
Operator : SJ/MA
Sample : I2936-11 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP3-COMP(0.5-4.5FT)

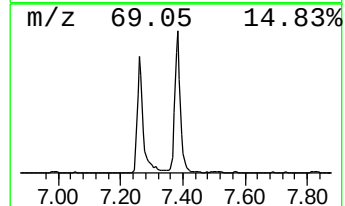
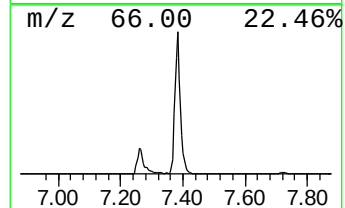
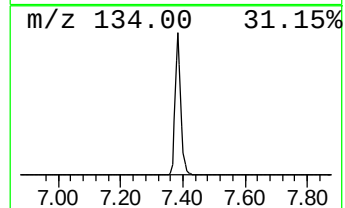
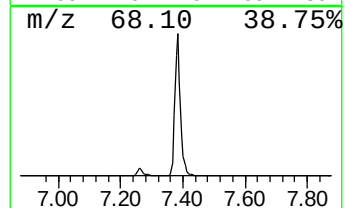
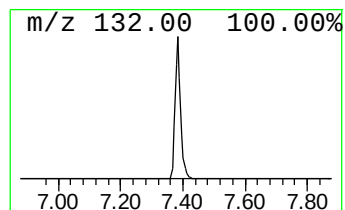
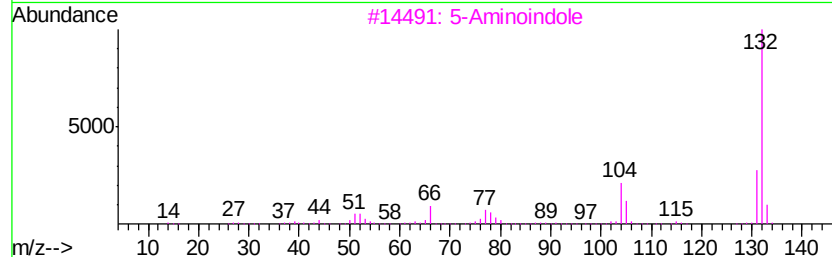
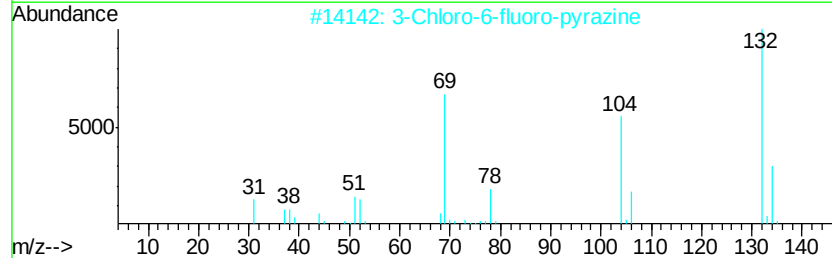
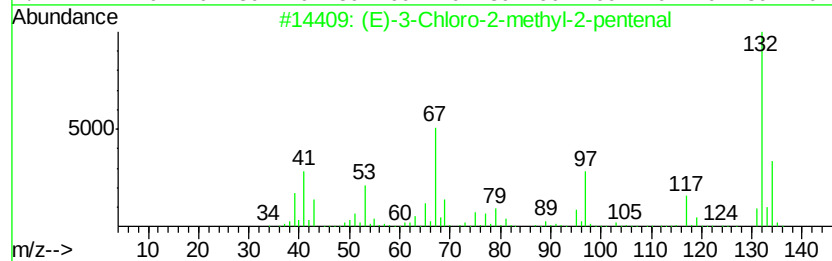
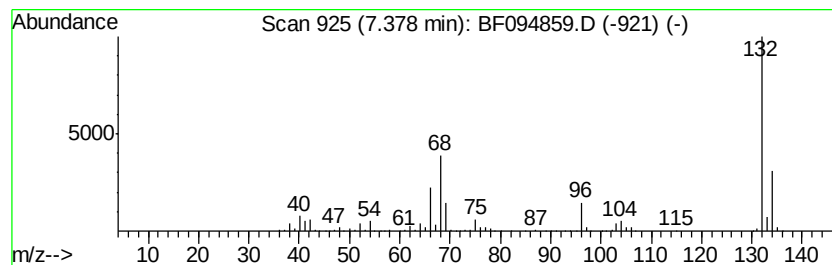
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 unknown7.38 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.38	58.54 ng	1636010	1,4-Dichlorobenzene-d4	7.72

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	35
2		3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	25
3		5-Aminoindole	132	C8H8N2	005192-03-0	12
4		4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9
5		5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050317\
Data File : BF094859.D
Acq On : 4 May 2017 4:33
Operator : SJ/MA
Sample : I2936-11 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP3-COMP(0.5-4.5FT)

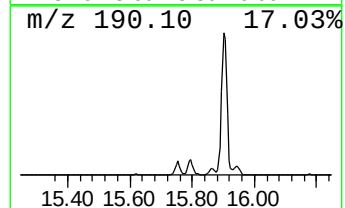
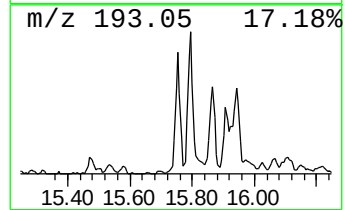
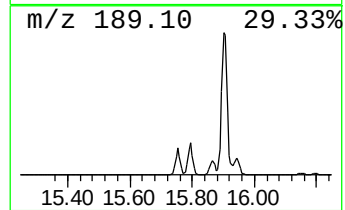
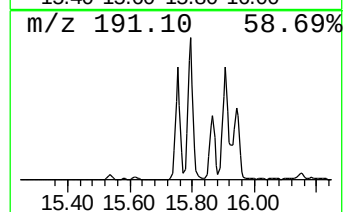
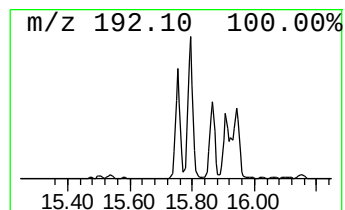
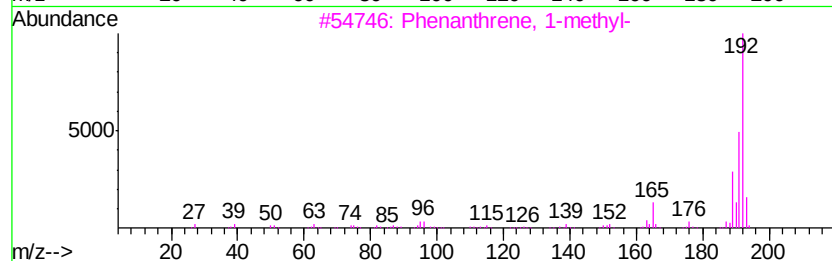
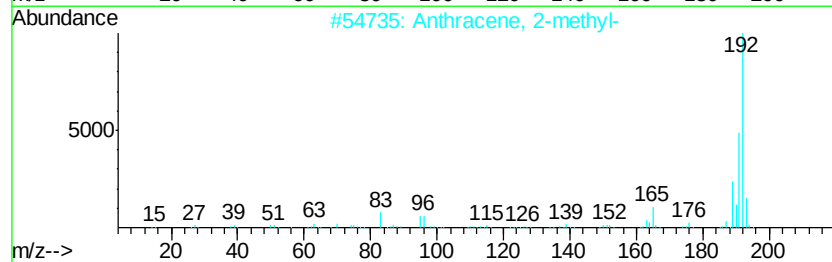
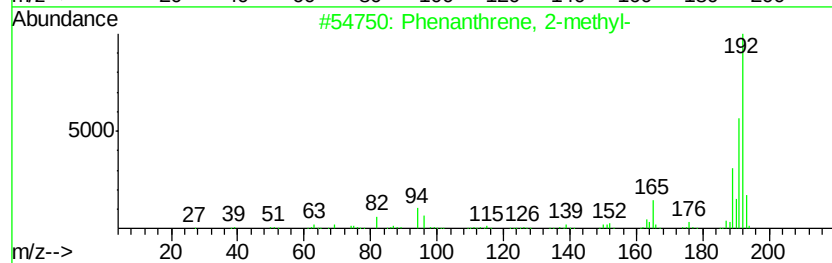
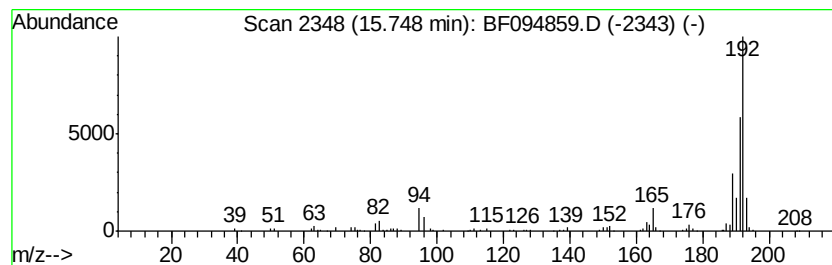
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.75	16.04 ng	482038	Phenanthrene-d10	14.97

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2		Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4		1H-Cyclopropa[l]phenanthrene, 1a, ...	192	C15H12	000949-41-7	95
5		Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050317\
Data File : BF094859.D
Acq On : 4 May 2017 4:33
Operator : SJ/MA
Sample : I2936-11 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

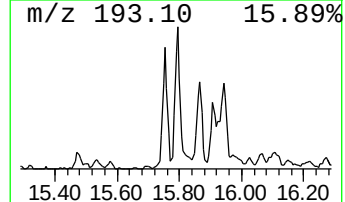
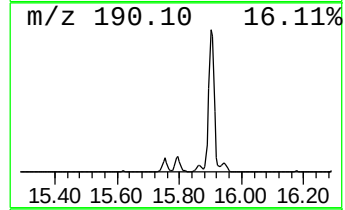
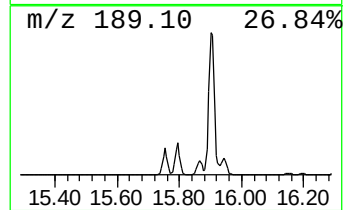
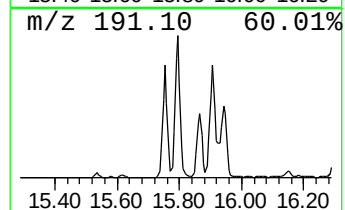
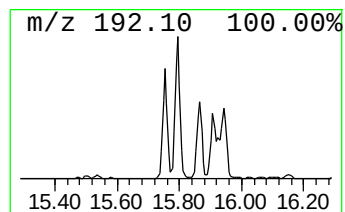
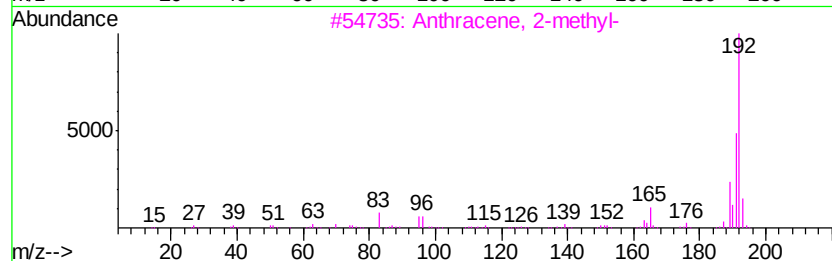
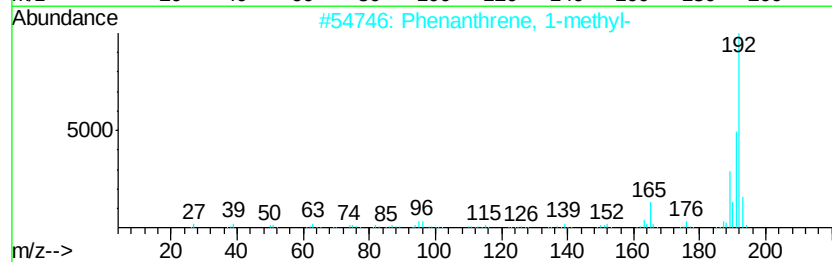
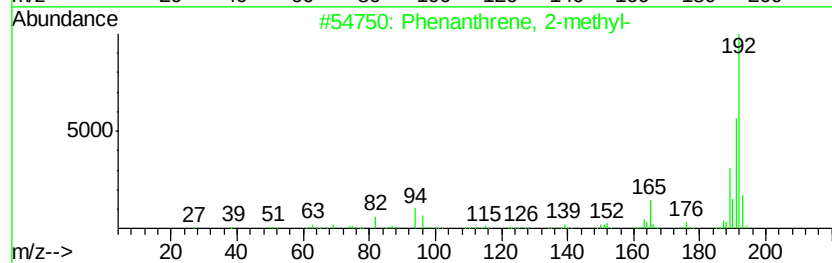
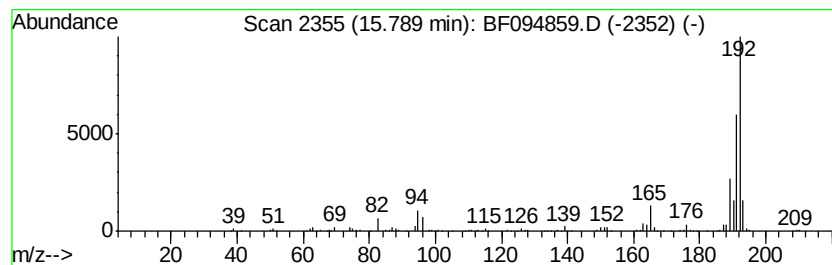
Instrument :
BNA_F
ClientSampleId :
TP3-COMP(0.5-4.5FT)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.	
15.79	21.50 ng	645834	Phenanthrene-d10	14.97	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	95
5	1H-Cyclopropa[l]phenanthrene, 1a, ...	192	C15H12	000949-41-7	95



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050317\
Data File : BF094859.D
Acq On : 4 May 2017 4:33
Operator : SJ/MA
Sample : I2936-11 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP3-COMP(0.5-4.5FT)

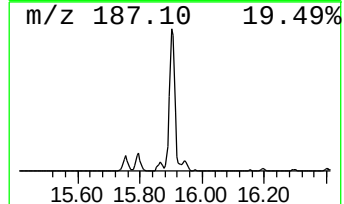
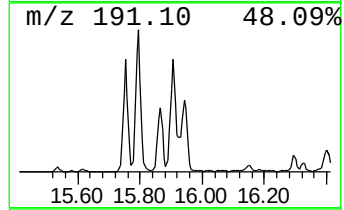
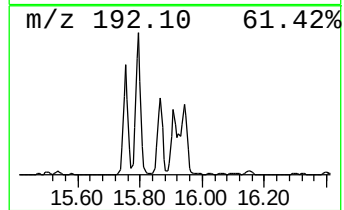
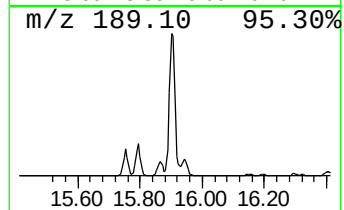
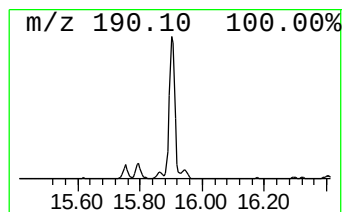
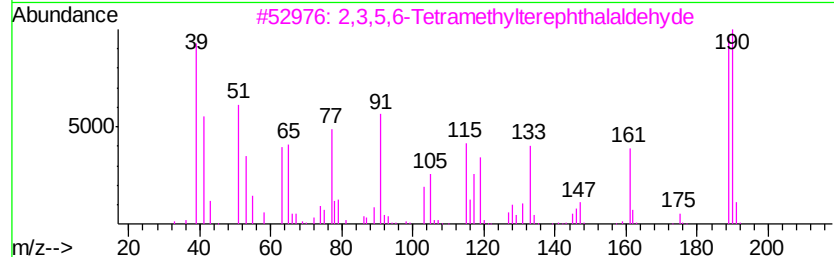
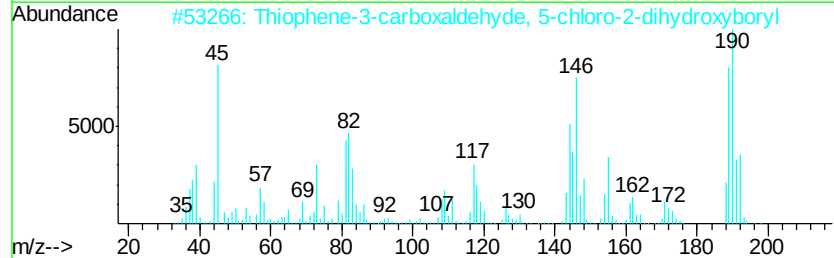
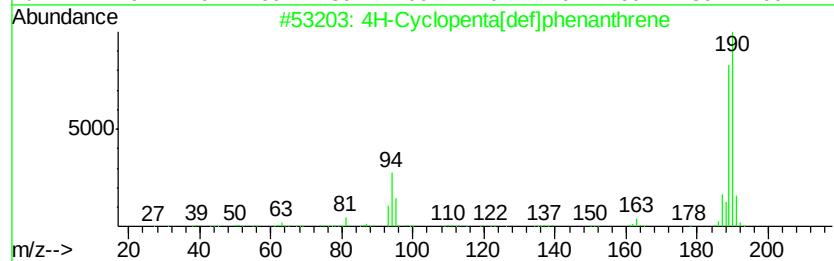
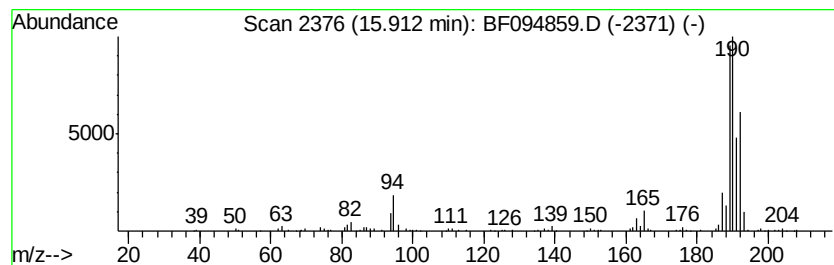
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.91	40.44 ng	1215130	Phenanthrene-d10	14.97

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2		Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	53
3		2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50
4		6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	50
5		2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050317\
Data File : BF094859.D
Acq On : 4 May 2017 4:33
Operator : SJ/MA
Sample : I2936-11 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

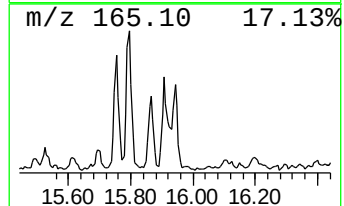
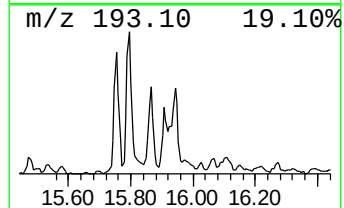
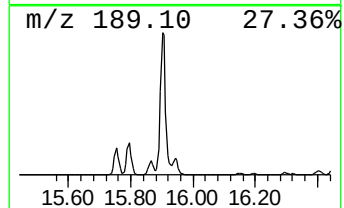
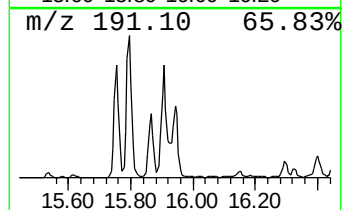
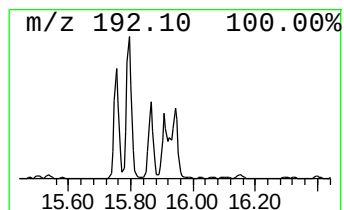
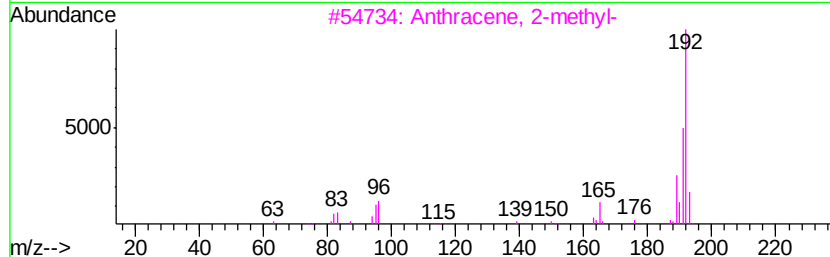
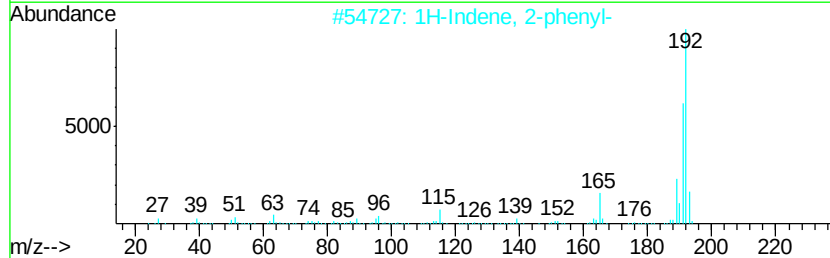
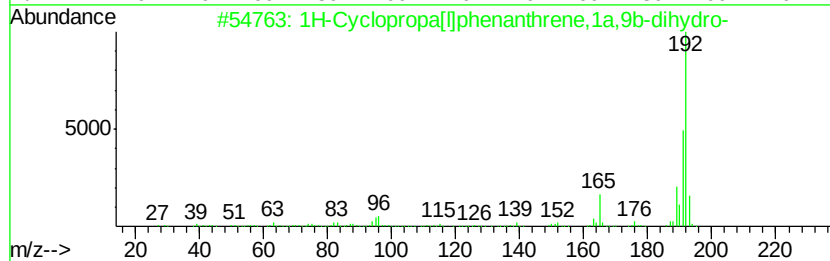
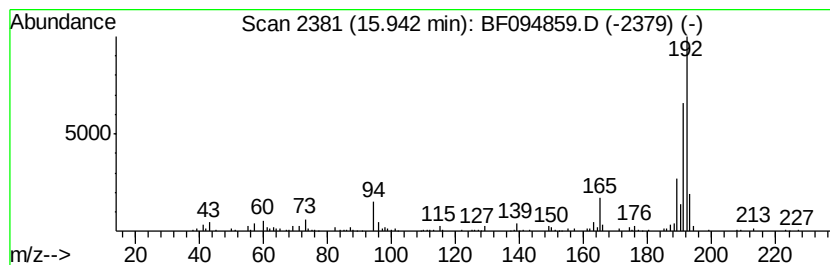
Instrument :
BNA_F
ClientSampleId :
TP3-COMP(0.5-4.5FT)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 1H-Cyclopropa[l]phenanthren... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.	
15.94	10.94 ng	328619	Phenanthrene-d10	14.97	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene, 1a, ...	192	C15H12	000949-41-7	95
2	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
5	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	90



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050317\
Data File : BF094859.D
Acq On : 4 May 2017 4:33
Operator : SJ/MA
Sample : I2936-11 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

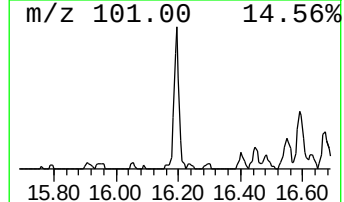
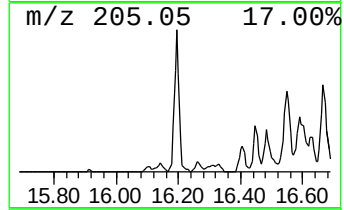
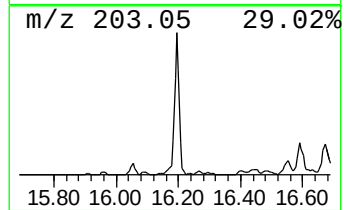
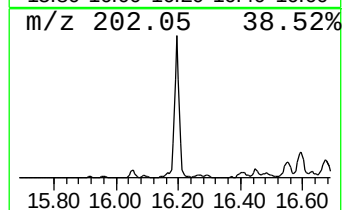
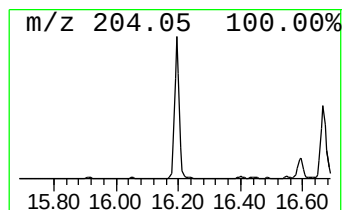
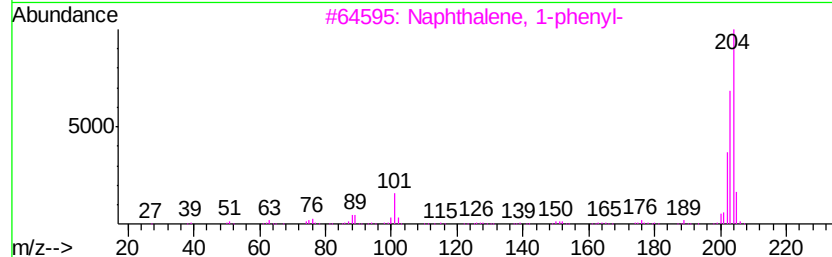
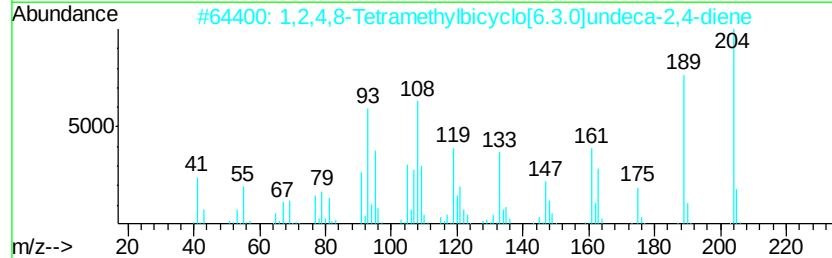
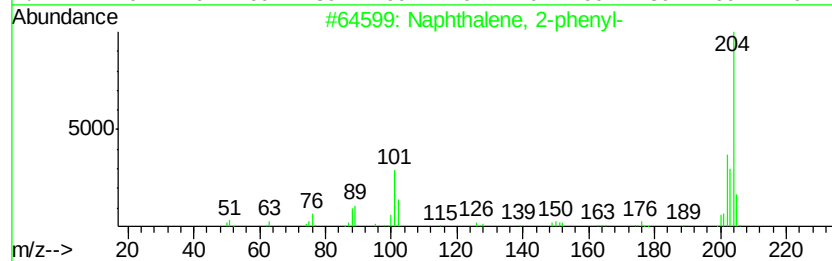
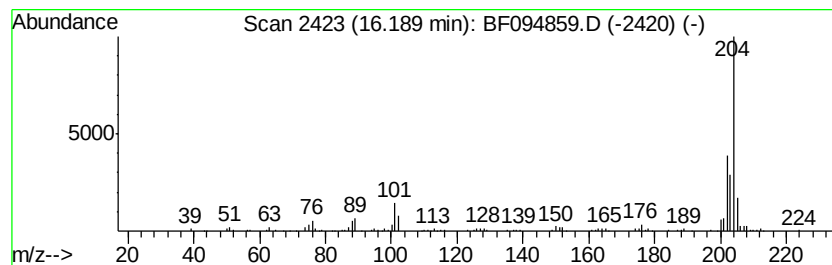
Instrument :
BNA_F
ClientSampleId :
TP3-COMP(0.5-4.5FT)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 Naphthalene, 2-phenyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.19	13.43 ng	403615	Phenanthrene-d10	14.97
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Naphthalene, 2-phenyl-	204 C16H12	000612-94-2 94
2		1,2,4,8-Tetramethylbicyclo[6.3.0...]	204 C15H24	137235-51-9 86
3		Naphthalene, 1-phenyl-	204 C16H12	000605-02-7 78
4		9,10-Bis(bromomethyl)anthracene	362 C16H12Br2	034373-96-1 59
5		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204 C14H8N2	001591-30-6 49



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050317\
Data File : BF094859.D
Acq On : 4 May 2017 4:33
Operator : SJ/MA
Sample : I2936-11 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP3-COMP(0.5-4.5FT)

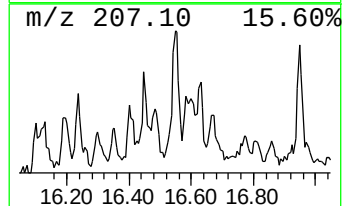
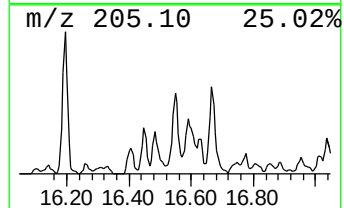
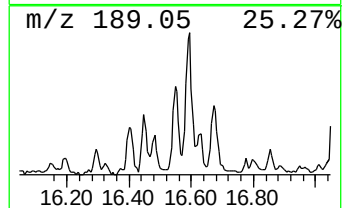
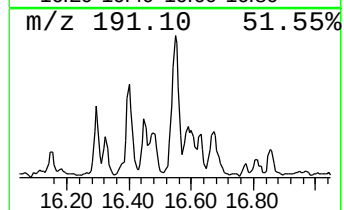
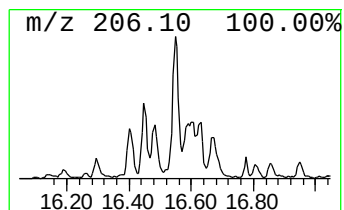
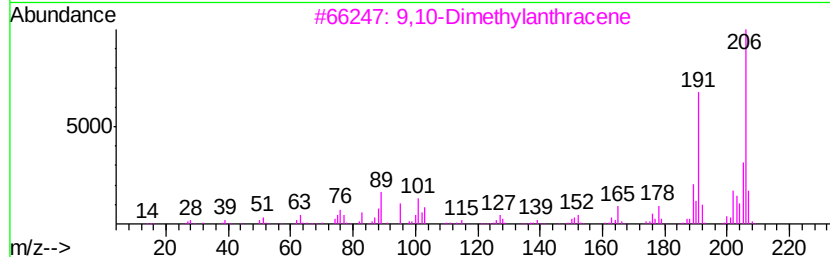
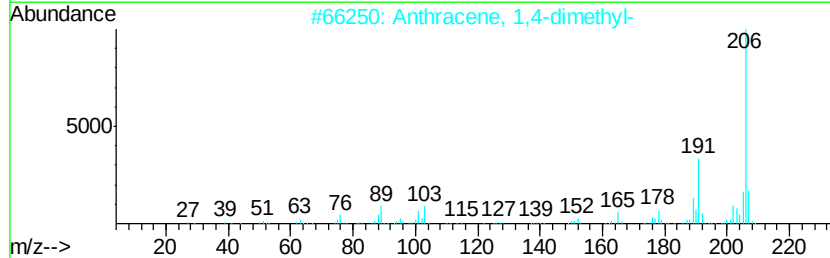
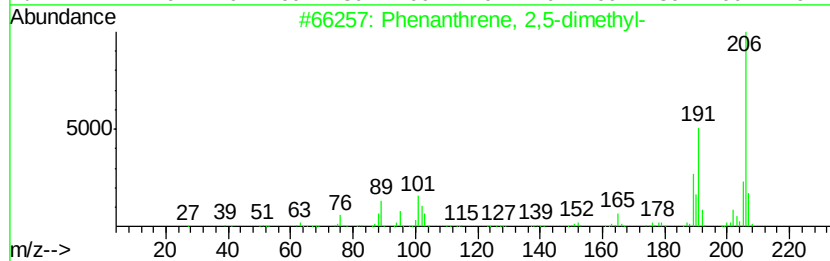
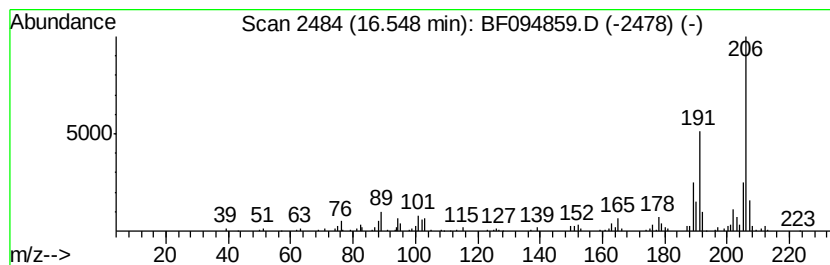
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 Phenanthrene, 2,5-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.55	9.96 ng	299155	Phenanthrene-d10	14.97

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2		Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	92
3		9,10-Dimethylantracene	206	C16H14	000781-43-1	91
4		Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5		Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	90



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050317\
Data File : BF094859.D
Acq On : 4 May 2017 4:33
Operator : SJ/MA
Sample : I2936-11 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

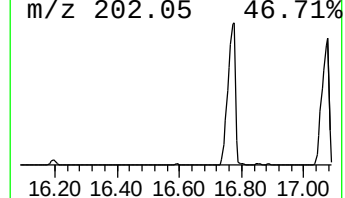
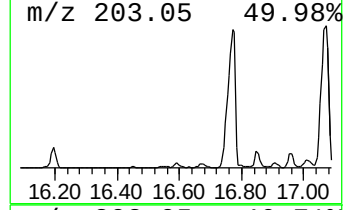
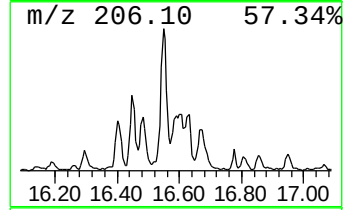
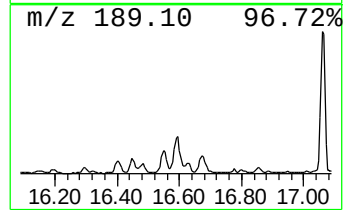
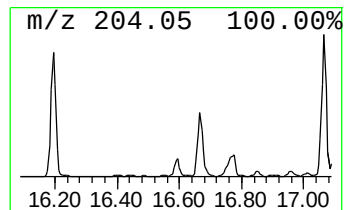
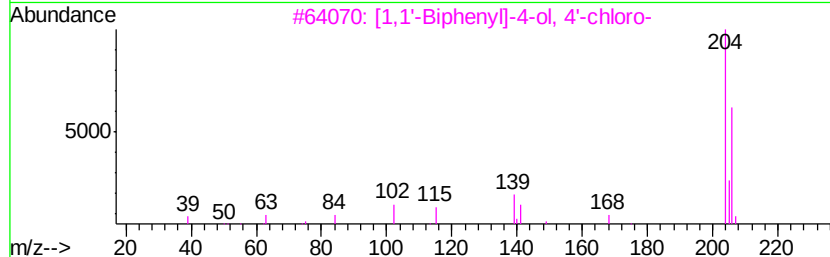
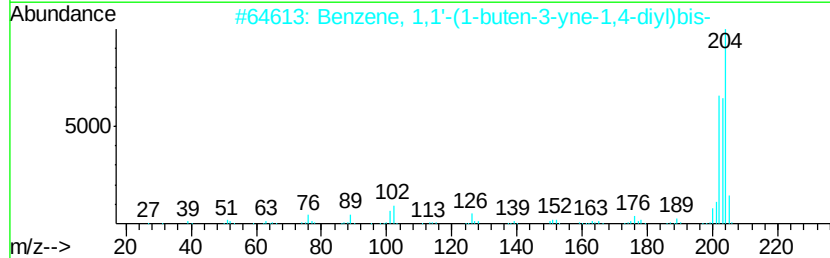
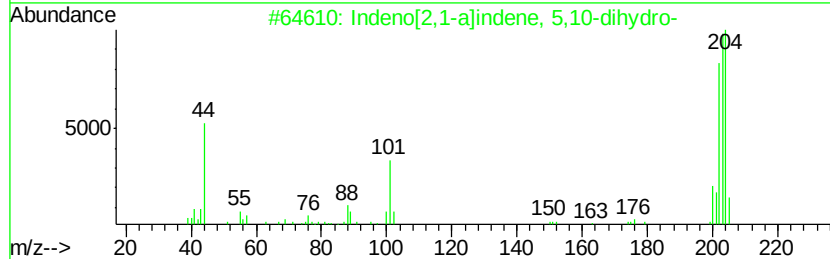
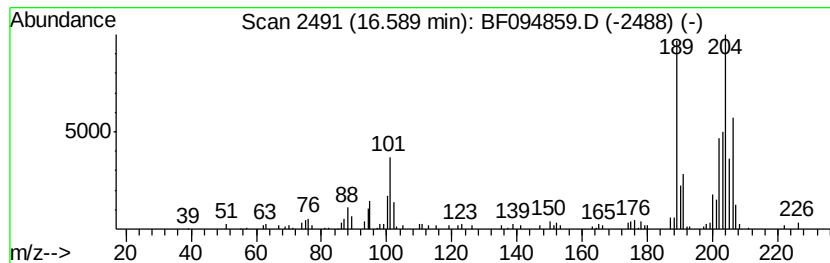
Instrument :
BNA_F
ClientSampleId :
TP3-COMP(0.5-4.5FT)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 11 unknown16.59 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.	
16.59	8.17 ng	245388	Phenanthrene-d10	14.97	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	44
2	Benzene, 1,1'-(1-buten-3-yne-1,4...	204	C16H12	013141-45-2	38
3	[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	27
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	25
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	25



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050317\
Data File : BF094859.D
Acq On : 4 May 2017 4:33
Operator : SJ/MA
Sample : I2936-11 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP3-COMP(0.5-4.5FT)

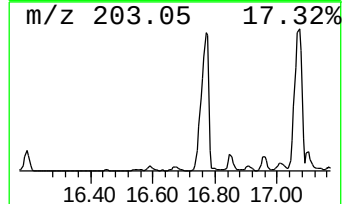
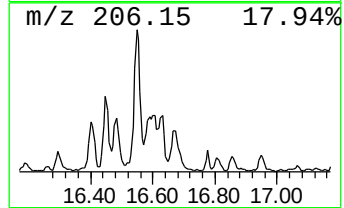
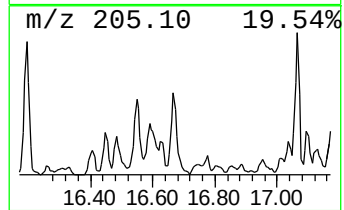
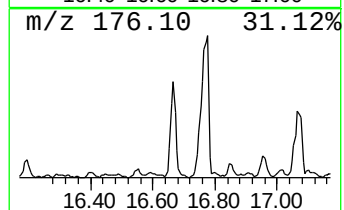
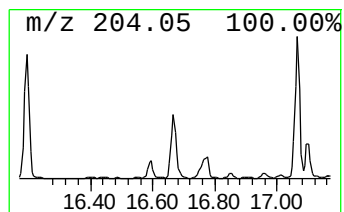
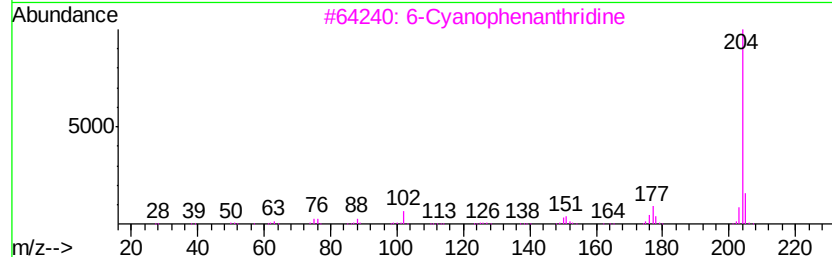
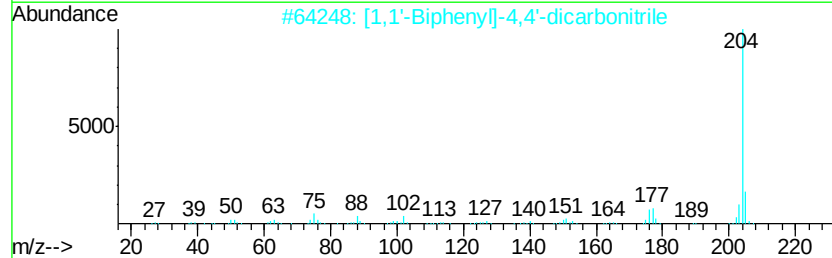
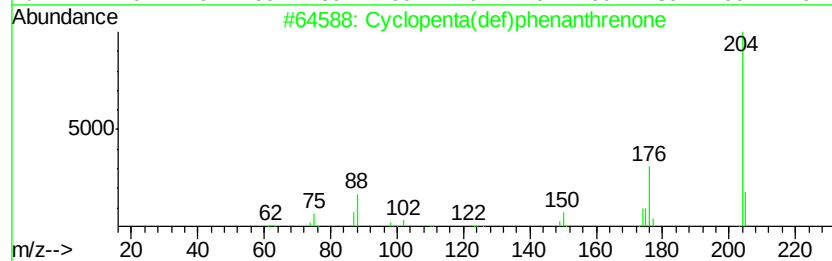
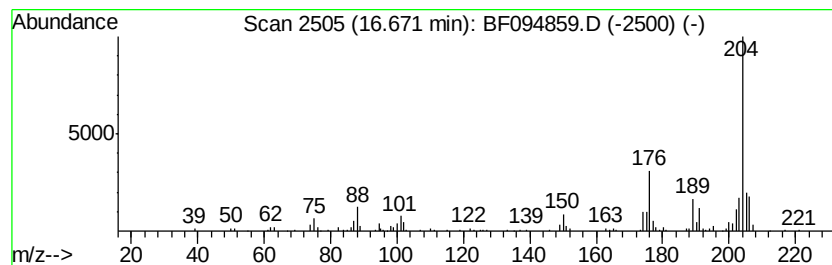
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 12 Cyclopenta(def)phenanthrenone Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.67	10.71 ng	321791	Phenanthrene-d10	14.97

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	58
3		6-Cyanophenanthridine	204	C14H8N2	002176-28-5	53
4		2-t-Butyl-thiazolidine-3,4-dicar...	261	C11H19N04S	1000192-60-1	47
5		[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	47



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050317\
Data File : BF094859.D
Acq On : 4 May 2017 4:33
Operator : SJ/MA
Sample : I2936-11 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP3-COMP(0.5-4.5FT)

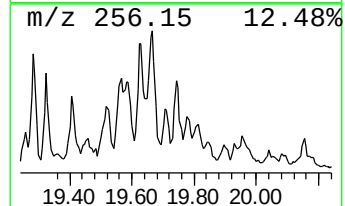
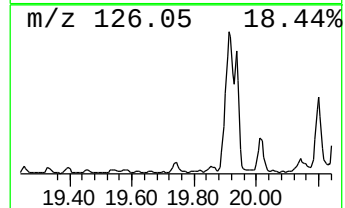
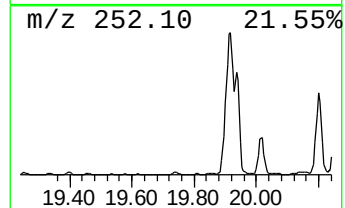
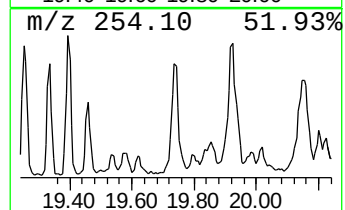
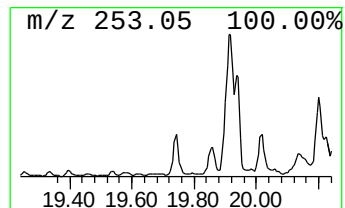
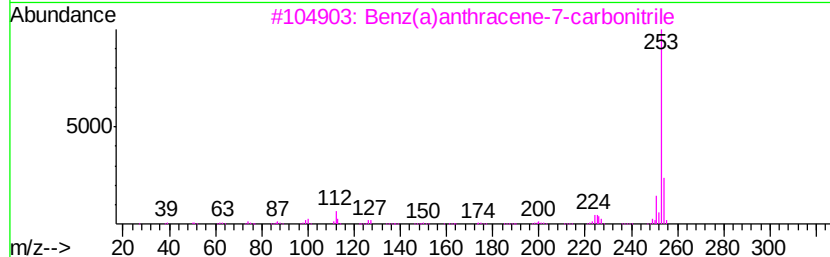
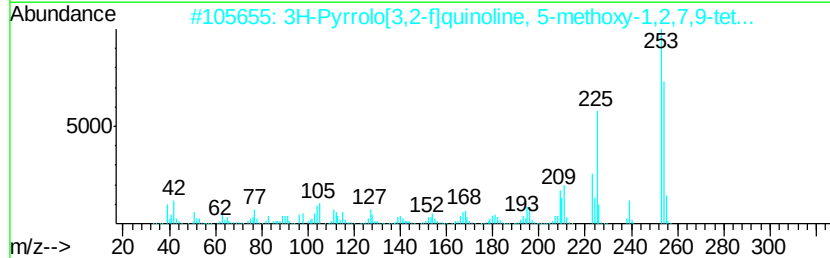
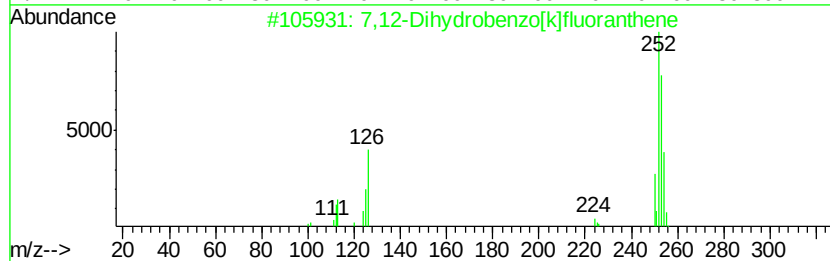
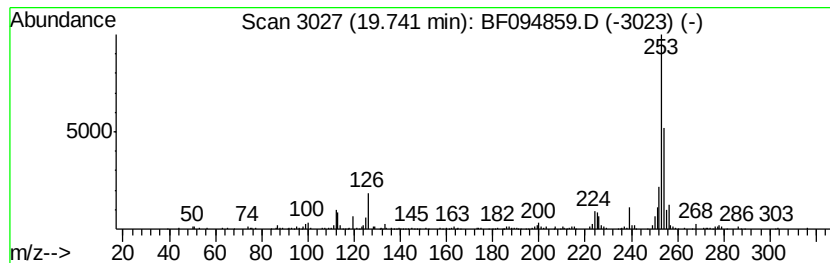
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 13 7,12-Dihydrobenzo[k]fluoran... Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.74	10.35 ng	199671	Perylene-d12	20.31

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	7,12-Dihydrobenzo[k]fluoranthene	254	C20H14	1000080-17-7	64
2		3H-Pyrrolo[3,2-f]quinoline, 5-me...	254	C16H18N2O	1000350-44-1	58
3		Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	53
4		9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	46
5		1,1'-Binaphthalene	254	C20H14	000604-53-5	46



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050317\
Data File : BF094859.D
Acq On : 4 May 2017 4:33
Operator : SJ/MA
Sample : I2936-11 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

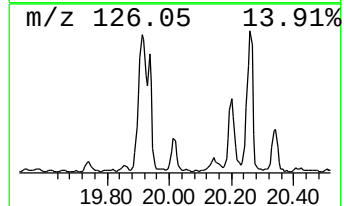
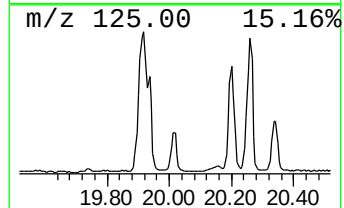
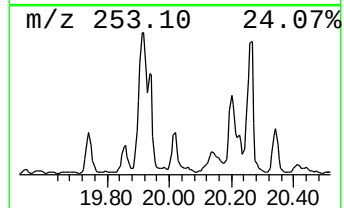
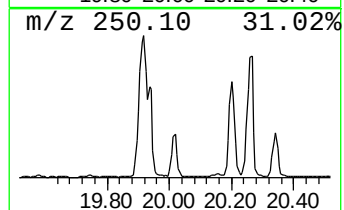
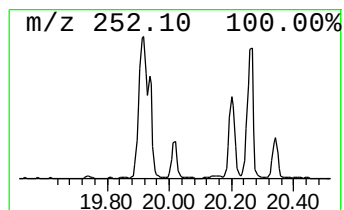
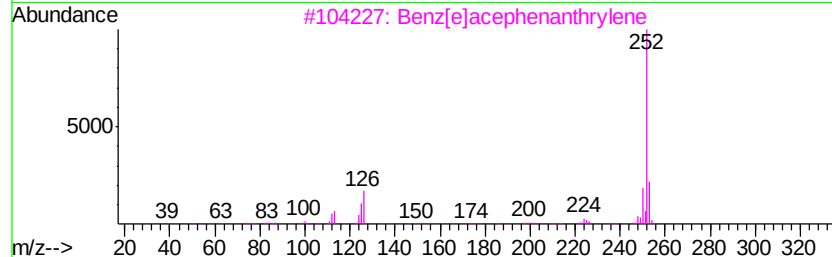
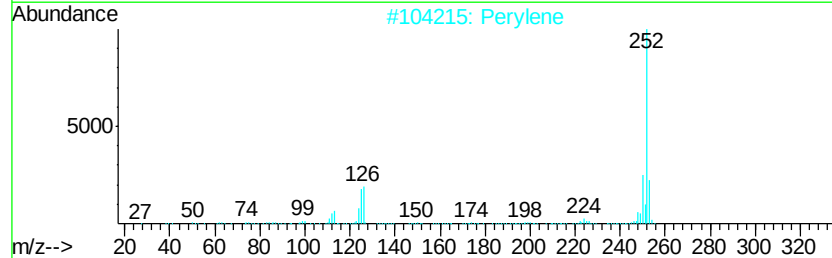
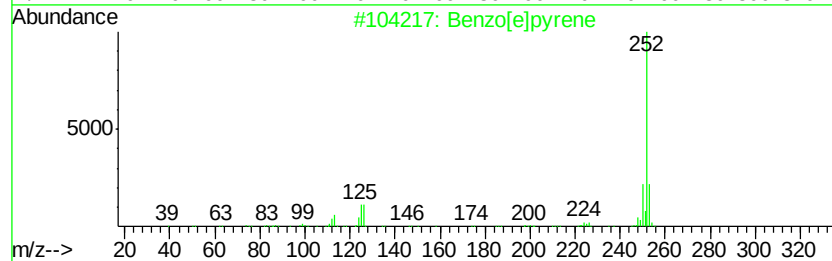
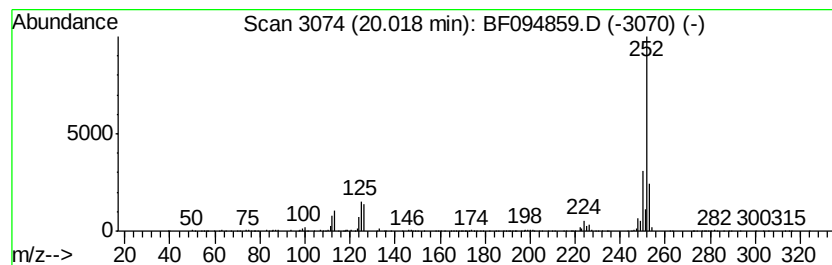
Instrument :
BNA_F
ClientSampleId :
TP3-COMP(0.5-4.5FT)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 14 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
20.02	27.45 ng	529761	Perylene-d12	20.31	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Perylene	252	C20H12	000198-55-0	97
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	96
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
5	Benzo[a]pyrene	252	C20H12	000050-32-8	91



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050317\
Data File : BF094859.D
Acq On : 4 May 2017 4:33
Operator : SJ/MA
Sample : I2936-11 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

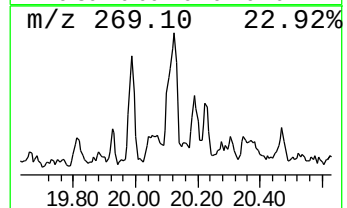
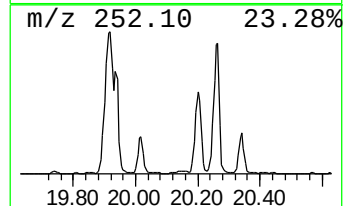
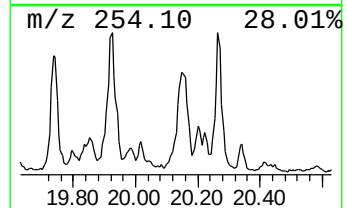
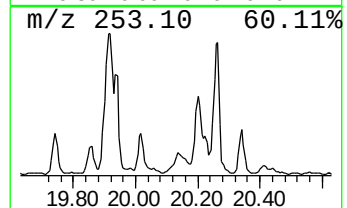
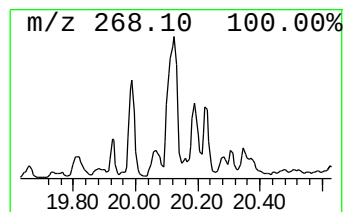
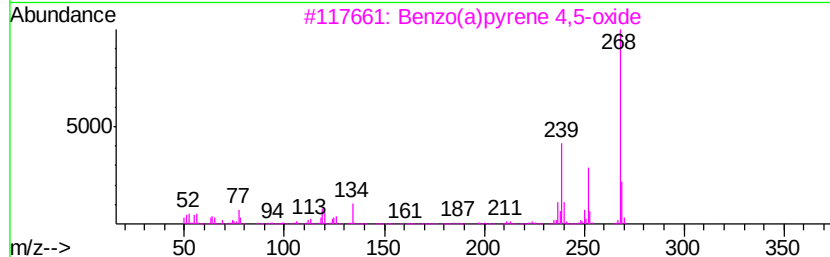
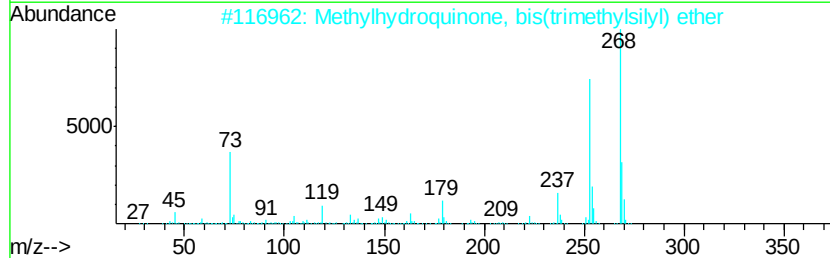
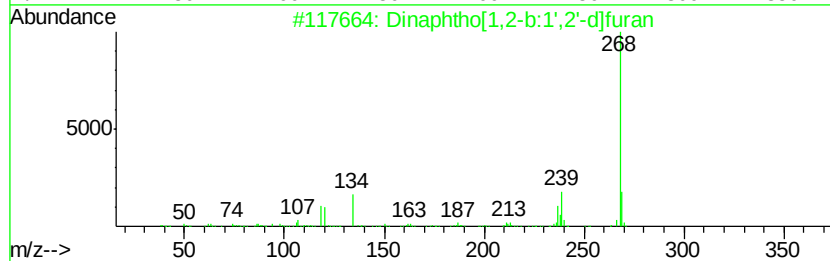
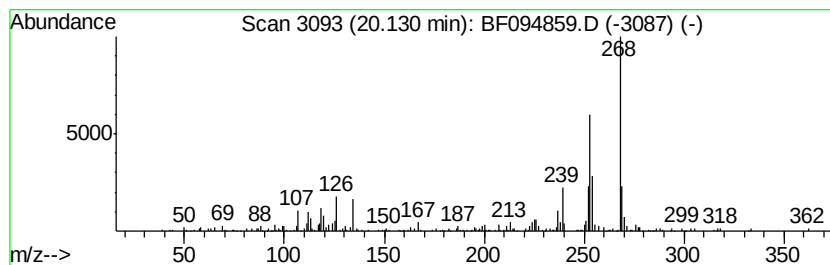
Instrument :
BNA_F
ClientSampleId :
TP3-COMP(0.5-4.5FT)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 15 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.13	14.32 ng	276354	Perylene-d12	20.31
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Dinaphtho[1,2-b:1',2'-d]furan	268 C20H12O	000207-93-2 64
2		Methylhydroquinone, bis(trimethy...	268 C13H24O2Si2	1000352-79-5 64
3		Benzo(a)pyrene 4,5-oxide	268 C20H12O	037574-47-3 62
4		9,10-Dihydro-8-methylbenzo[a]pyrene	268 C21H16	089524-72-1 59
5		Pyrrolo[3,2-f]quinolin-9-one, 1,...	268 C17H20N2O	1000302-73-3 52



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050317\
Data File : BF094859.D
Acq On : 4 May 2017 4:33
Operator : SJ/MA
Sample : I2936-11 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP3-COMP(0.5-4.5FT)

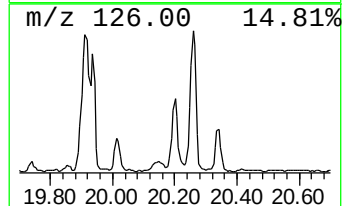
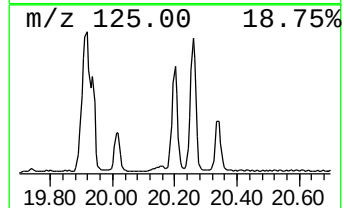
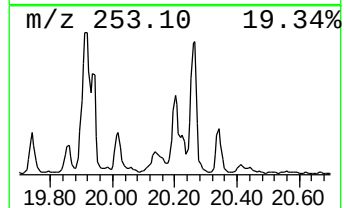
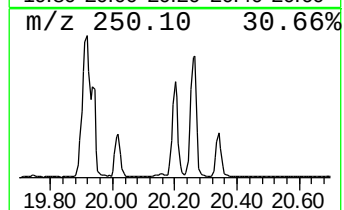
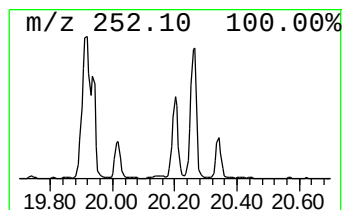
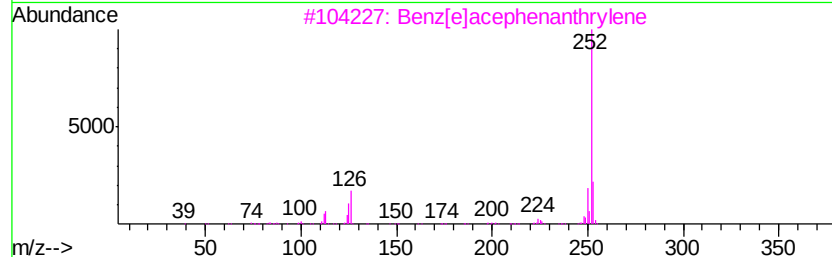
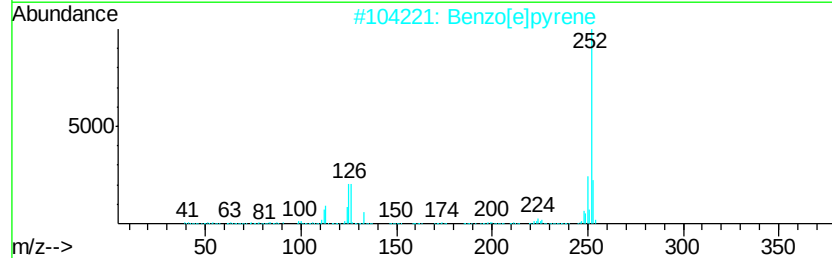
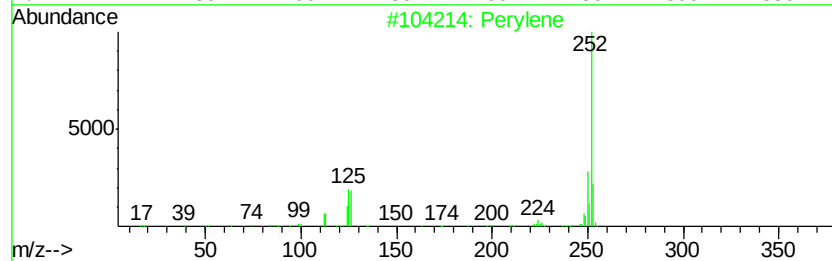
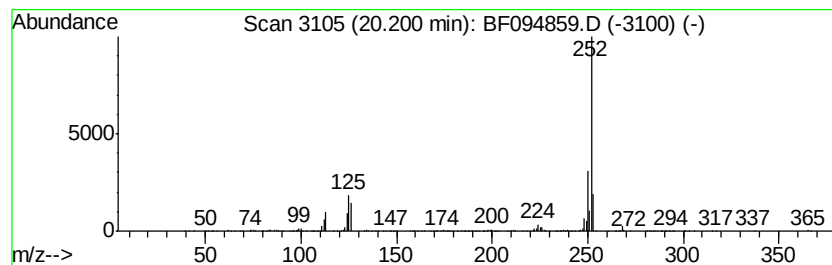
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 16 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.20	73.20 ng	1412600	Perylene-d12	20.31

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Perylene	252	C20H12	000198-55-0	98
2		Benzo[e]pyrene	252	C20H12	000192-97-2	98
3		Benz[e]acephenanthrylene	252	C20H12	000205-99-2	95
4		Benzo[a]pyrene	252	C20H12	000050-32-8	93
5		Benzo[k]fluoranthene	252	C20H12	000207-08-9	83



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050317\
Data File : BF094859.D
Acq On : 4 May 2017 4:33
Operator : SJ/MA
Sample : I2936-11 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP3-COMP(0.5-4.5FT)

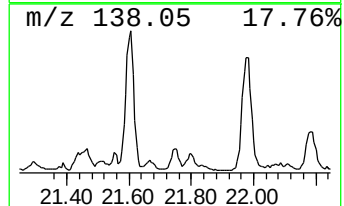
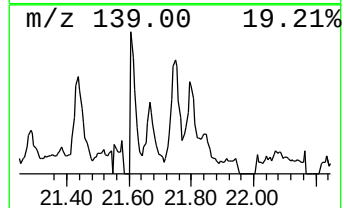
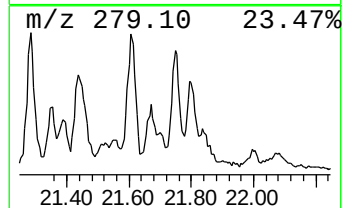
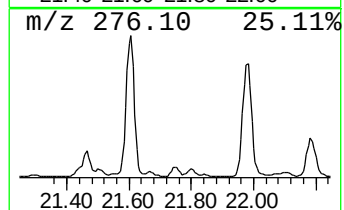
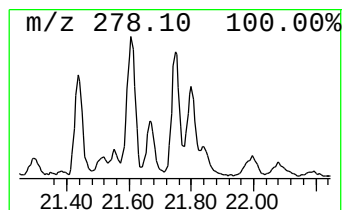
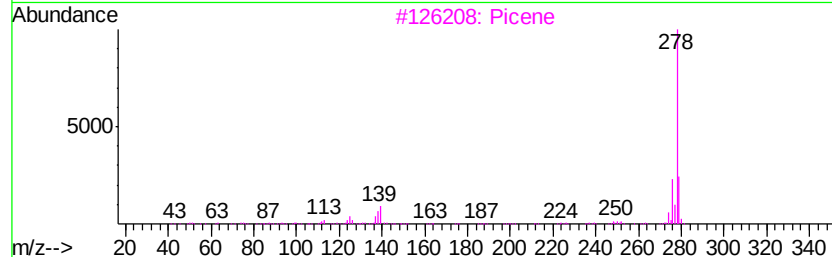
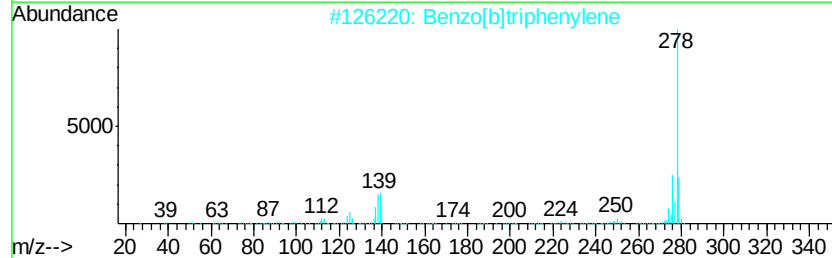
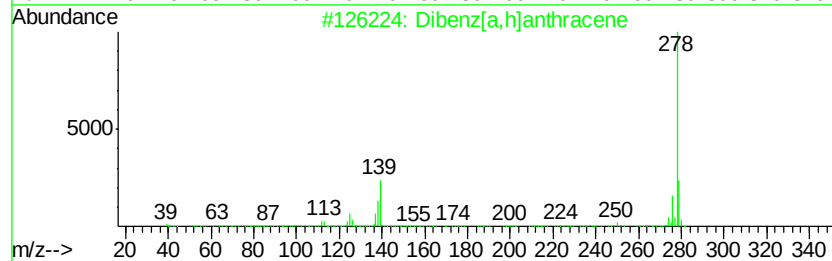
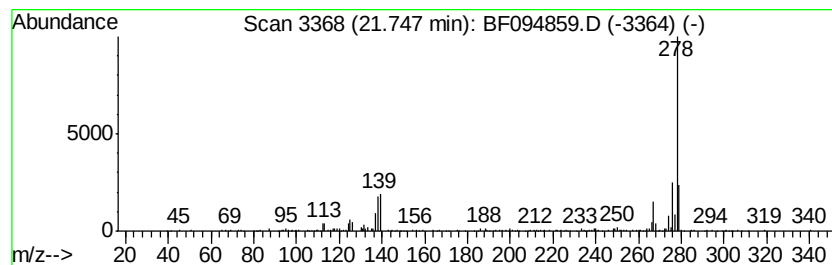
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 17 Dibenz[a,h]anthracene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.75	14.44 ng	278718	Perylene-d12	20.31

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	95
2		Benzo[b]triphenylene	278	C22H14	000215-58-7	93
3		Picene	278	C22H14	000213-46-7	93
4		Benzo[b]chrysene	278	C22H14	000214-17-5	89
5		Pentacene	278	C22H14	000135-48-8	76



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050317\
Data File : BF094859.D
Acq On : 4 May 2017 4:33
Operator : SJ/MA
Sample : I2936-11 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

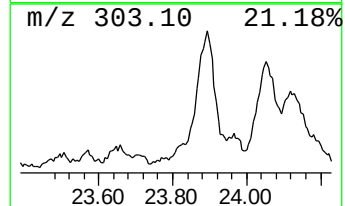
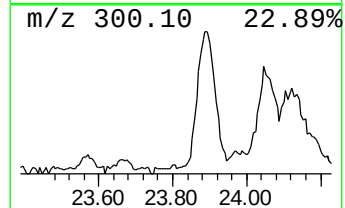
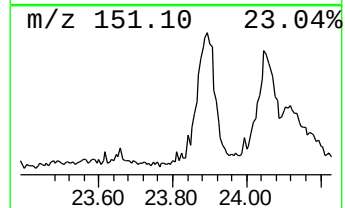
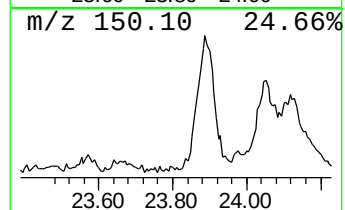
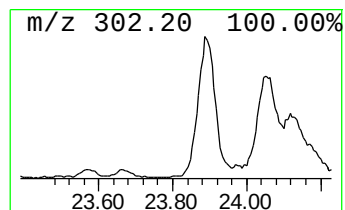
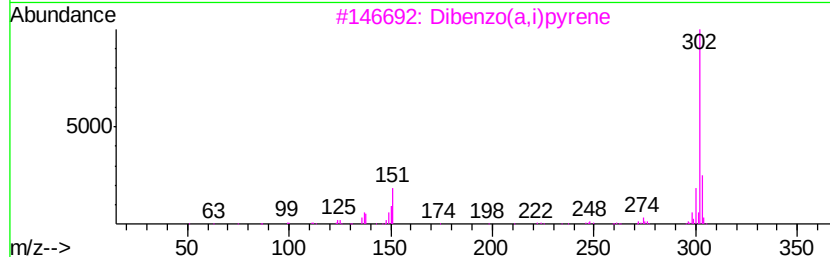
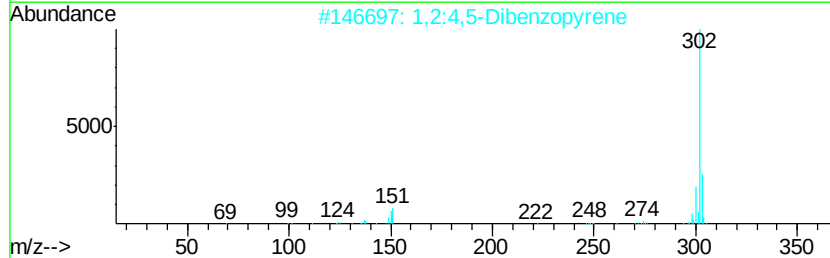
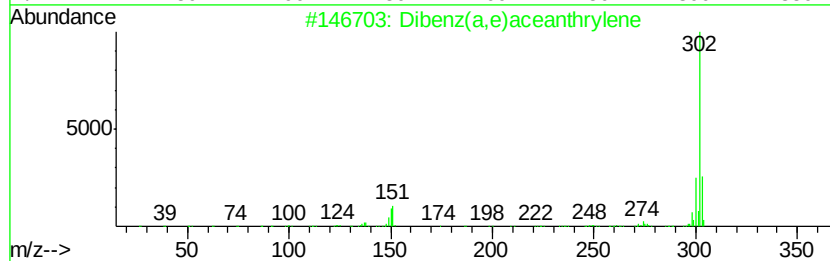
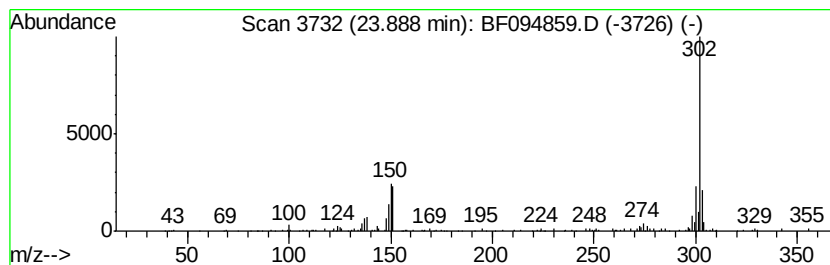
Instrument :
BNA_F
ClientSampleId :
TP3-COMP(0.5-4.5FT)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 19 Dibenz(a,e)aceanthrylene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.		
23.89	20.62 ng	397874	Perylene-d12	20.31		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	98
2		1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	98
3		Dibenzo(a,i)pyrene	302	C24H14	000189-55-9	96
4		3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	96
5		1,2,9,10-Dibenzopyrene	302	C24H14	000191-30-0	89



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050317\
Data File : BF094859.D
Acq On : 4 May 2017 4:33
Operator : SJ/MA
Sample : I2936-11 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP3-COMP(0.5-4.5FT)

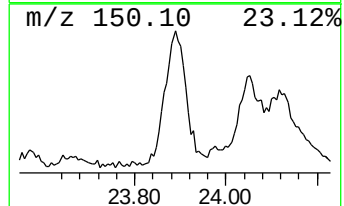
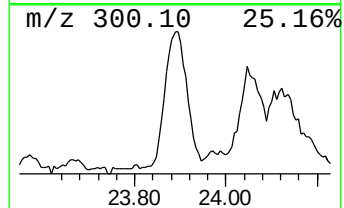
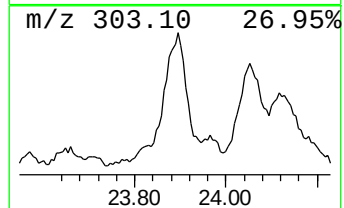
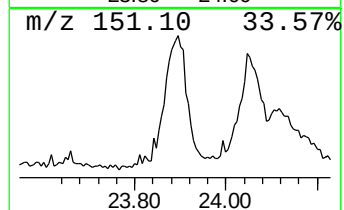
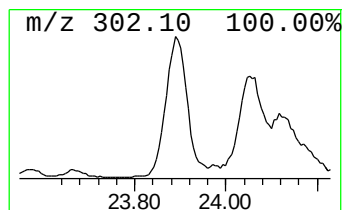
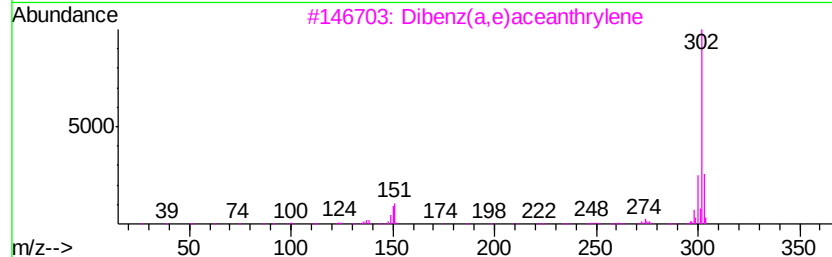
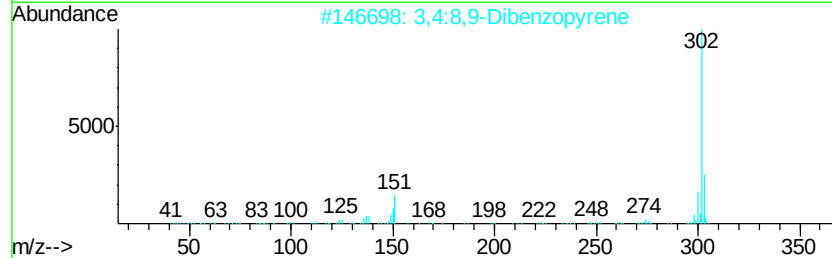
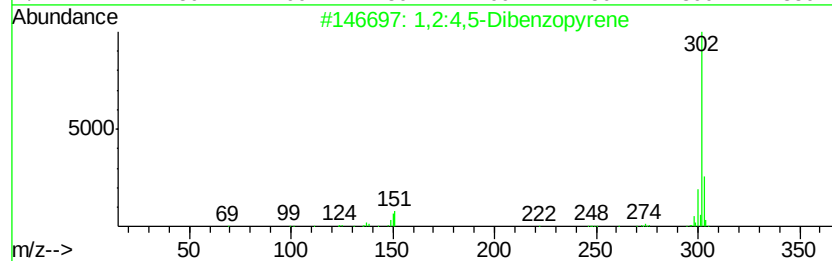
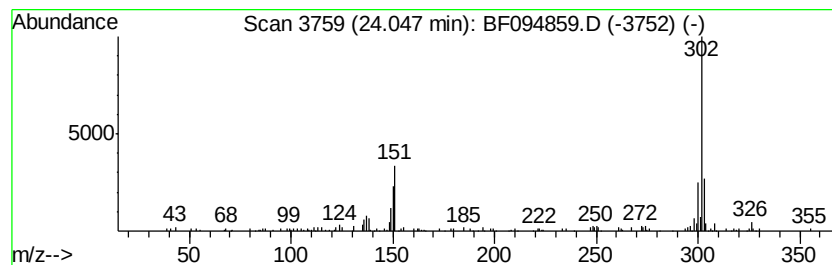
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 20 1,2:4,5-Dibenzopyrene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.05	8.37 ng	161436	Perylene-d12	20.31

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	95
2		3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	93
3		Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	90
4		Dibenzo(a,i)pyrene	302	C24H14	000189-55-9	90
5		Dibenzo[fg,op]naphthacene	302	C24H14	000192-51-8	76



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050317\
 Data File : BF094859.D
 Acq On : 4 May 2017 4:33
 Operator : SJ/MA
 Sample : I2936-11 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP3-COMP(0.5-4.5FT)

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
 TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-hy...	5.02	14.7	ng	409830	1	7.72	558901	20.0
unknown7.38	7.38	58.5	ng	1636010	1	7.72	558901	20.0
Phenanthrene, 2-m...	15.75	16.0	ng	482038	4	14.97	600914	20.0
Phenanthrene, 1-m...	15.79	21.5	ng	645834	4	14.97	600914	20.0
4H-Cyclopenta[def...	15.91	40.4	ng	1215130	4	14.97	600914	20.0
1H-Cyclopropa[l]p...	15.94	10.9	ng	328619	4	14.97	600914	20.0
Naphthalene, 2-ph...	16.19	13.4	ng	403615	4	14.97	600914	20.0
Phenanthrene, 2,5...	16.55	10.0	ng	299155	4	14.97	600914	20.0
unknown16.59	16.59	8.2	ng	245388	4	14.97	600914	20.0
Cyclopenta(def)ph...	16.67	10.7	ng	321791	4	14.97	600914	20.0
7,12-Dihydrobenzo...	19.74	10.4	ng	199671	6	20.31	385950	20.0
Benzo[e]pyrene	20.02	27.4	ng	529761	6	20.31	385950	20.0
Dinaphtho[1,2-b:1...	20.13	14.3	ng	276354	6	20.31	385950	20.0
Perylene	20.20	73.2	ng	1412600	6	20.31	385950	20.0
Dibenz[a,h]anthra...	21.75	14.4	ng	278718	6	20.31	385950	20.0
Dibenz(a,e)aceant...	23.89	20.6	ng	397874	6	20.31	385950	20.0
1,2:4,5-Dibenzopy...	24.05	8.4	ng	161436	6	20.31	385950	20.0