

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052417\
 Data File : BF095396.D
 Acq On : 24 May 2017 18:59
 Operator : SJ/MA
 Sample : I3241-16
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EP1-WC2(0-6)

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	5.713	639	642	670	rBV	639724	1664206	17.53%	1.308%
2	7.295	907	911	927	rBV	647921	1537973	16.20%	1.209%
3	7.413	927	931	946	rVB	1164508	1920027	20.22%	1.509%
4	7.748	984	988	999	rVB	339957	435216	4.58%	0.342%
5	7.984	1023	1028	1046	rBV	1104415	1380868	14.54%	1.086%
6	8.648	1137	1141	1158	rBV	465539	891548	9.39%	0.701%
7	9.772	1327	1332	1352	rBV2	312498	640988	6.75%	0.504%
8	11.536	1627	1632	1647	rBV	1041044	1317923	13.88%	1.036%
9	12.072	1717	1723	1727	rBV	169483	252531	2.66%	0.199%
10	12.242	1747	1752	1762	rBV2	105484	280980	2.96%	0.221%
11	12.372	1769	1774	1785	rBV	492395	745685	7.85%	0.586%
12	12.601	1808	1813	1818	rBV2	320864	503646	5.30%	0.396%
13	12.648	1818	1821	1828	rVB	246807	325467	3.43%	0.256%
14	13.495	1958	1965	1973	rVV	403048	594393	6.26%	0.467%
15	13.766	2008	2011	2022	rVB5	137152	298270	3.14%	0.234%
16	13.901	2029	2034	2042	rBV	488929	795237	8.37%	0.625%
17	14.395	2111	2118	2121	rBV	225850	410532	4.32%	0.323%
18	14.436	2122	2125	2131	rVV2	205601	285079	3.00%	0.224%
19	14.624	2152	2157	2160	rBV4	141365	247866	2.61%	0.195%
20	14.795	2180	2186	2189	rVV3	129845	268967	2.83%	0.211%
21	14.836	2189	2193	2197	rVB	351016	431032	4.54%	0.339%
22	15.001	2217	2221	2224	rBV	277385	395820	4.17%	0.311%
23	15.054	2224	2230	2234	rVV	3167392	4847430	51.05%	3.811%
24	15.124	2237	2242	2251	rVB	1091357	1457077	15.34%	1.145%
25	15.218	2251	2258	2261	rBV	199783	337165	3.55%	0.265%
26	15.413	2283	2291	2294	rBV	198452	345036	3.63%	0.271%
27	15.524	2306	2310	2314	rVB	541873	644916	6.79%	0.507%
28	15.654	2327	2332	2338	rVB	347675	533974	5.62%	0.420%
29	15.789	2350	2355	2358	rVV	1698793	2044822	21.53%	1.607%
30	15.830	2358	2362	2366	rVV	1862690	2242517	23.62%	1.763%
31	15.901	2370	2374	2377	rBV	651241	805634	8.48%	0.633%
32	15.942	2377	2381	2385	rVV2	2038609	3172214	33.41%	2.494%
33	15.983	2385	2388	2392	rVB	1588765	1705592	17.96%	1.341%
34	16.077	2400	2404	2408	rBV3	185224	281697	2.97%	0.221%

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35	16.130	2408	2413	2419	rVV	350607	523994	5.52%	0.412%
36	16.224	2425	2429	2434	rVV	1046636	1599035	16.84%	1.257%
37	16.289	2437	2440	2444	rVV	490367	700992	7.38%	0.551%
38	16.395	2455	2458	2461	rVV	230823	295035	3.11%	0.232%
39	16.436	2461	2465	2469	rVV	476807	722192	7.61%	0.568%
40	16.483	2469	2473	2476	rVV	645256	834532	8.79%	0.656%
41	16.512	2476	2478	2482	rVB	314232	390608	4.11%	0.307%
42	16.589	2485	2491	2494	rBV	1368581	1964223	20.68%	1.544%
43	16.630	2494	2498	2501	rVV3	868600	1413184	14.88%	1.111%
44	16.665	2501	2504	2507	rVV	355217	427639	4.50%	0.336%
45	16.712	2507	2512	2519	rVB2	815648	1549195	16.31%	1.218%
46	16.818	2519	2530	2533	rBV	4535557	8986532	94.63%	7.065%
47	16.889	2537	2542	2545	rBV4	505026	766832	8.08%	0.603%
48	16.924	2545	2548	2555	rVB2	620672	818139	8.62%	0.643%
49	16.989	2555	2559	2563	rBV	420822	543221	5.72%	0.427%
50	17.036	2563	2567	2572	rBV3	296762	449211	4.73%	0.353%
51	17.112	2572	2580	2585	rVV3	4215326	9496127	100.00%	7.465%
52	17.177	2586	2591	2594	rVV3	227791	404804	4.26%	0.318%
53	17.206	2594	2596	2600	rVB	344268	402597	4.24%	0.316%
54	17.277	2605	2608	2612	rBV	522374	598201	6.30%	0.470%
55	17.330	2613	2617	2624	rVB2	1325656	1751688	18.45%	1.377%
56	17.418	2624	2632	2636	rBV2	1040679	1888646	19.89%	1.485%
57	17.530	2643	2651	2653	rBV2	832054	1628117	17.15%	1.280%
58	17.565	2653	2657	2661	rVB	2038910	2610997	27.50%	2.053%
59	17.612	2661	2665	2667	rBV2	253455	365770	3.85%	0.288%
60	17.648	2667	2671	2675	rVB	1509124	1827405	19.24%	1.437%
61	17.695	2675	2679	2684	rBV	1686803	2294069	24.16%	1.803%
62	17.812	2695	2699	2702	rBV	1077985	1101970	11.60%	0.866%
63	17.848	2702	2705	2709	rVB	927313	1047114	11.03%	0.823%
64	17.983	2725	2728	2733	rVB3	218631	266087	2.80%	0.209%
65	18.054	2736	2740	2741	rBV2	218661	278784	2.94%	0.219%
66	18.195	2761	2764	2768	rBV	339801	579782	6.11%	0.456%
67	18.242	2769	2772	2776	rVV	710066	1001435	10.55%	0.787%
68	18.365	2788	2793	2795	rBV	1115256	1481553	15.60%	1.165%
69	18.395	2795	2798	2801	rVV2	1248979	1476724	15.55%	1.161%
70	18.424	2801	2803	2806	rVV	712097	732873	7.72%	0.576%
71	18.459	2806	2809	2813	rVB2	562444	699988	7.37%	0.550%

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72	18.524	2817	2820	2824	rVV	669760	829206	8.73%	0.652%
73	18.583	2826	2830	2834	rVB	403057	514798	5.42%	0.405%
74	18.695	2841	2849	2852	rBV2	3126259	6333385	66.69%	4.979%
75	18.748	2852	2858	2861	rVV2	3237132	5870353	61.82%	4.615%
76	18.824	2865	2871	2874	rBV2	591906	849958	8.95%	0.668%
77	18.901	2880	2884	2892	rBV4	436008	777319	8.19%	0.611%
78	18.965	2892	2895	2899	rVV	432381	533898	5.62%	0.420%
79	19.006	2899	2902	2907	rVB3	402459	633804	6.67%	0.498%
80	19.142	2922	2925	2929	rBV	266284	414819	4.37%	0.326%
81	19.195	2929	2934	2937	rVV	1273430	1757226	18.50%	1.381%
82	19.236	2937	2941	2944	rVV	763526	948815	9.99%	0.746%
83	19.312	2944	2954	2956	rVV4	583073	1371067	14.44%	1.078%
84	19.348	2956	2960	2962	rVV3	596701	827046	8.71%	0.650%
85	19.371	2962	2964	2968	rVV2	695385	724344	7.63%	0.569%
86	19.436	2972	2975	2978	rVB2	316947	386471	4.07%	0.304%
87	19.800	3033	3037	3042	rBV2	336809	466118	4.91%	0.366%
88	19.977	3060	3067	3069	rBV	2396148	4510190	47.50%	3.546%
89	20.071	3080	3083	3088	rVB	516201	633760	6.67%	0.498%
90	20.206	3103	3106	3110	rVB3	206912	259394	2.73%	0.204%
91	20.259	3110	3115	3121	rBV	1610175	2195095	23.12%	1.726%
92	20.324	3121	3126	3131	rBV	1874012	2502593	26.35%	1.967%
93	20.400	3136	3139	3142	rBV	584562	653067	6.88%	0.513%
94	20.542	3159	3163	3165	rBV	217250	288194	3.03%	0.227%
95	21.706	3354	3361	3368	rBV	977308	1885869	19.86%	1.483%
96	21.847	3381	3385	3389	rBV	197984	332565	3.50%	0.261%
97	21.900	3390	3394	3403	rVB3	208526	401409	4.23%	0.316%
98	22.100	3421	3428	3434	rBV	715211	1405814	14.80%	1.105%
99	22.312	3460	3464	3479	rVB	207931	514634	5.42%	0.405%
100	24.065	3757	3762	3771	rVB	171991	423946	4.46%	0.333%

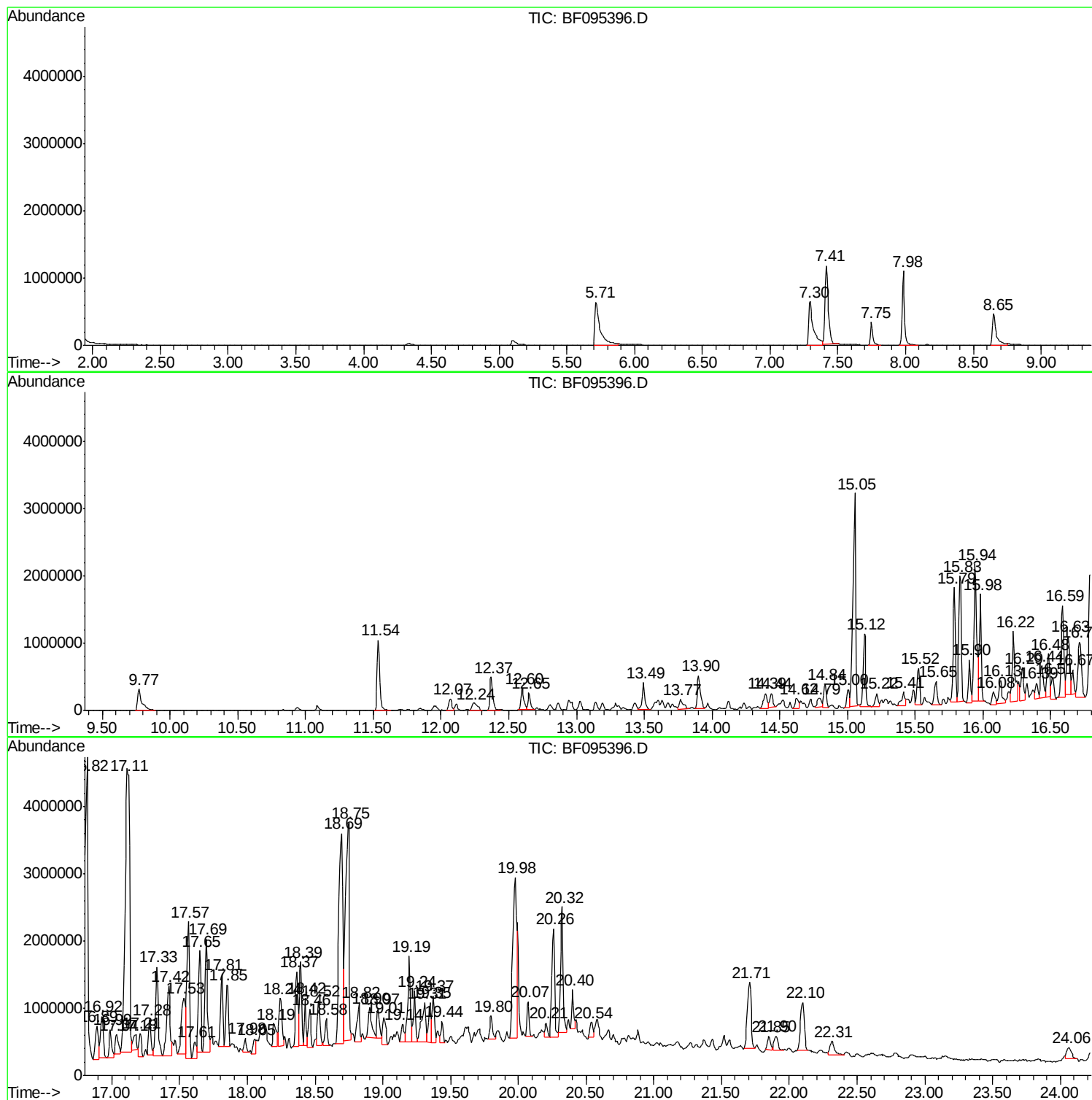
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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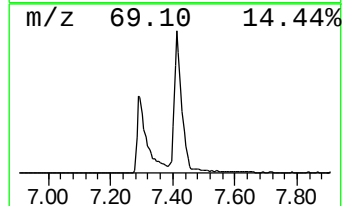
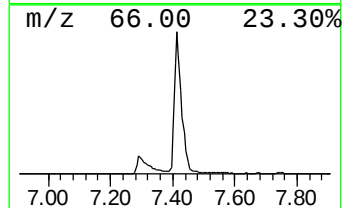
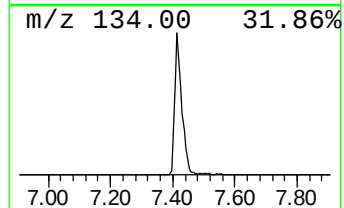
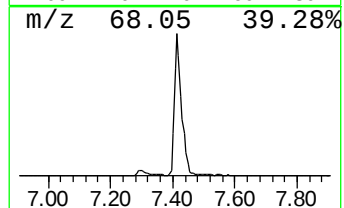
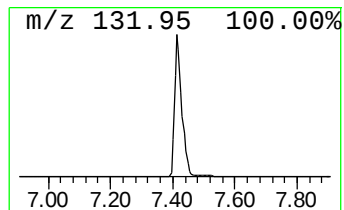
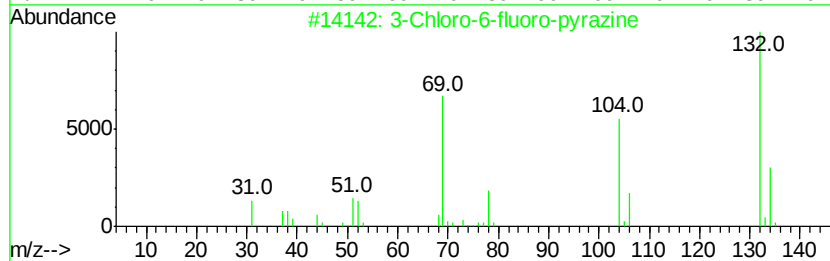
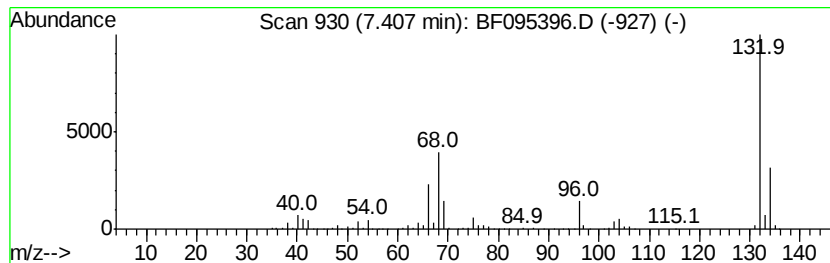
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 unknown7.41 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.41	88.23 ng	1920030	1,4-Dichlorobenzene-d4	7.75

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	25
2		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	25
3		5-Aminoindole	132	C8H8N2	005192-03-0	12
4		2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9
5		4-Chloro-6-fluoro-pyrimidine	132	C4H2ClFN2	051422-01-6	9



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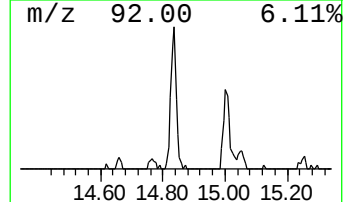
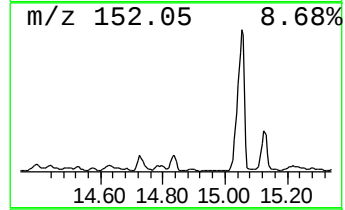
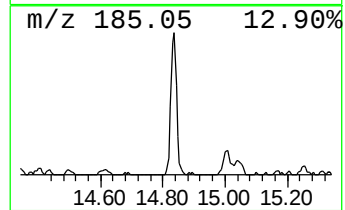
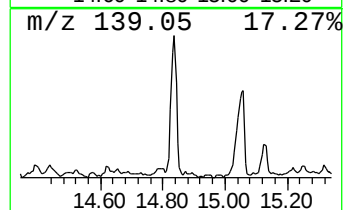
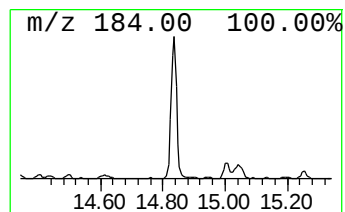
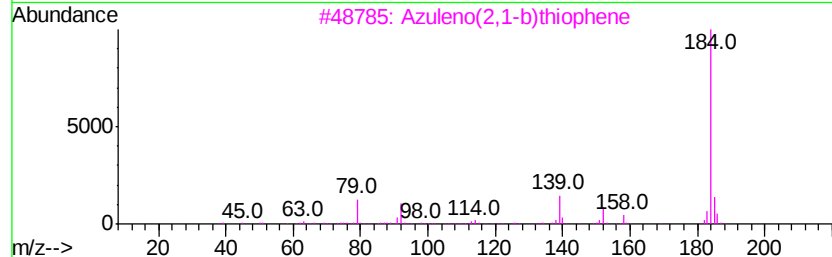
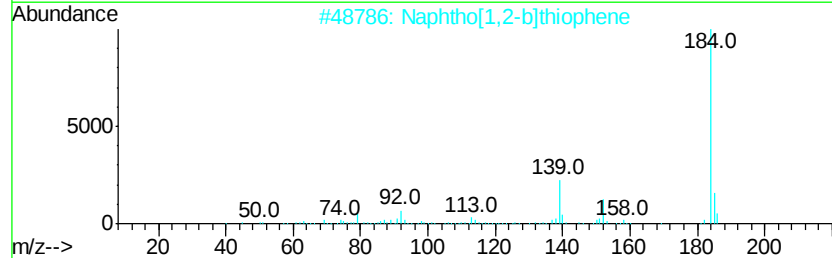
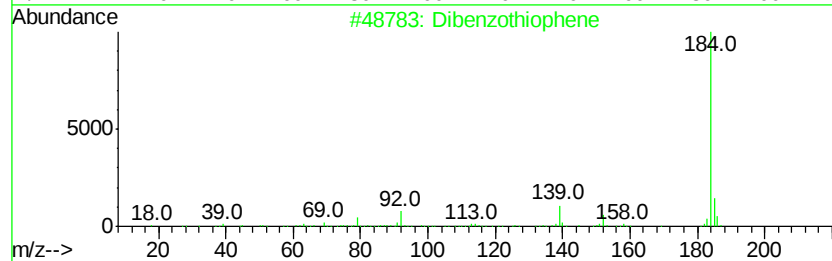
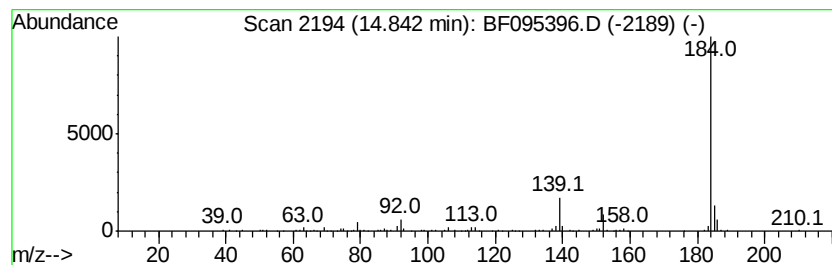
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TIC Library : C:\DATABASE\NIST11.L
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Peak Number 3 Dibenzothiophene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.84	21.78 ng	431032	Phenanthrene-d10	15.00

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Dibenzothiophene	184	C12H8S	000132-65-0	95
2		Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
3		Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	87
4		1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	72
5		2,5-Cyclohexadiene-1,4-dione, 2,...	184	C8H8O5	000085-23-4	59



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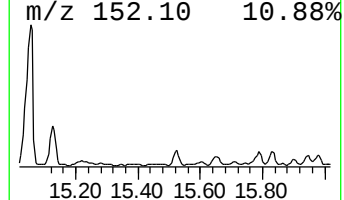
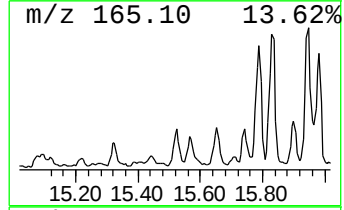
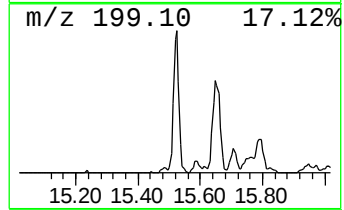
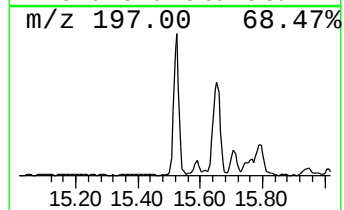
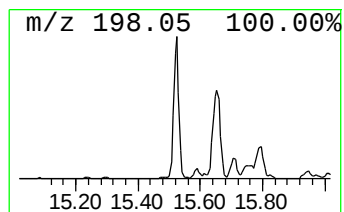
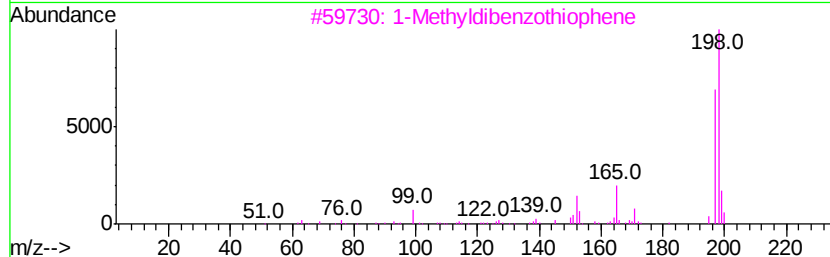
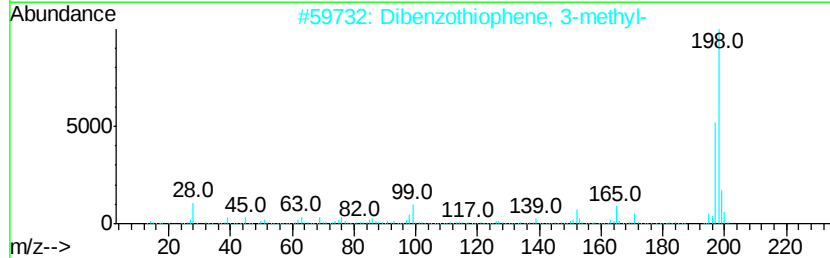
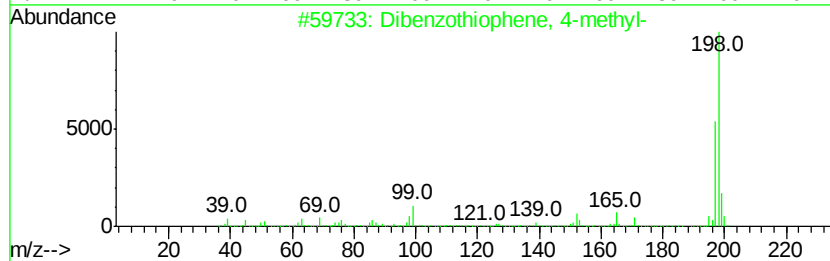
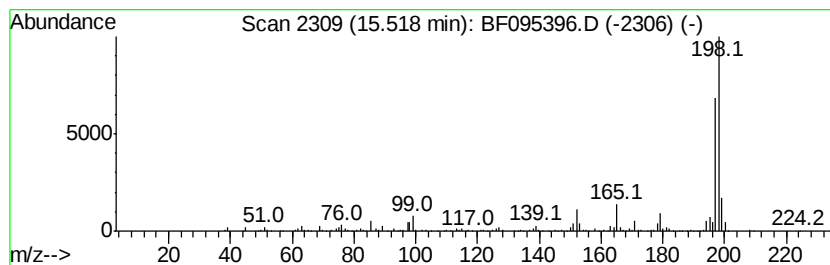
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TIC Integration Parameters: LSCINT.P

Peak Number 4 Dibenzothiophene, 4-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.52	32.59 ng	644916	Phenanthrene-d10	15.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	95
2		Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	94
3		1-Methylidibenzothiophene	198	C13H10S	031317-07-4	93
4		Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	87
5		4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	87



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052417\
Data File : BF095396.D
Acq On : 24 May 2017 18:59
Operator : SJ/MA
Sample : I3241-16
Misc :
ALS Vial : 15 Sample Multiplier: 1

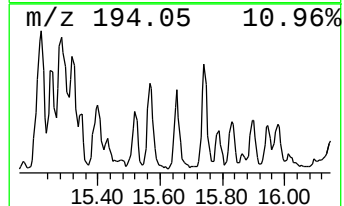
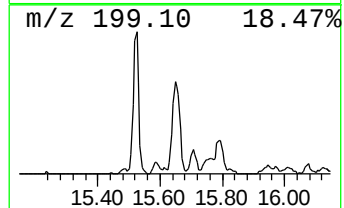
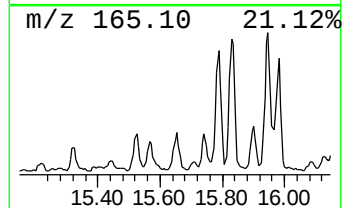
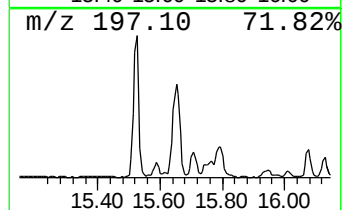
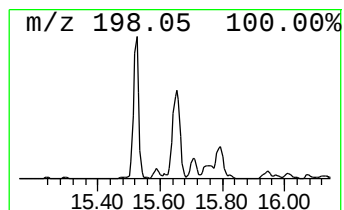
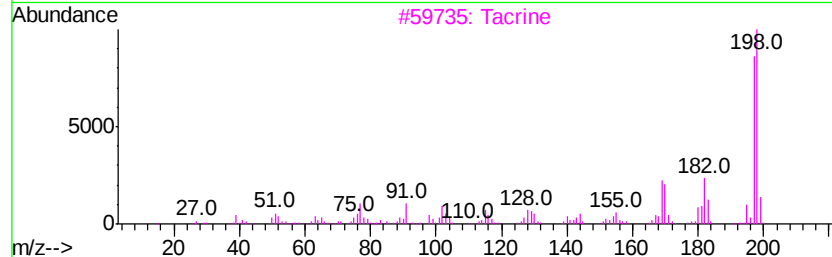
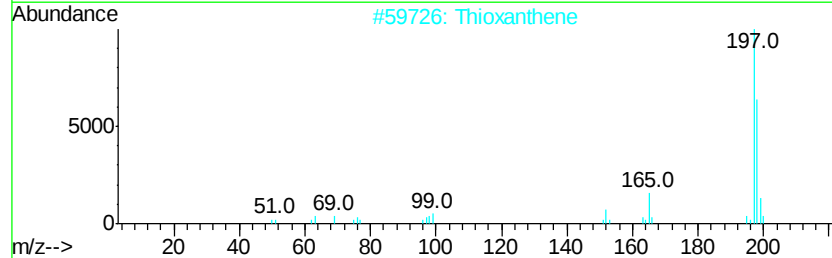
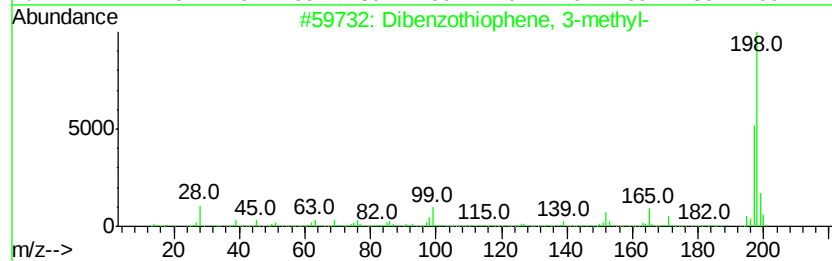
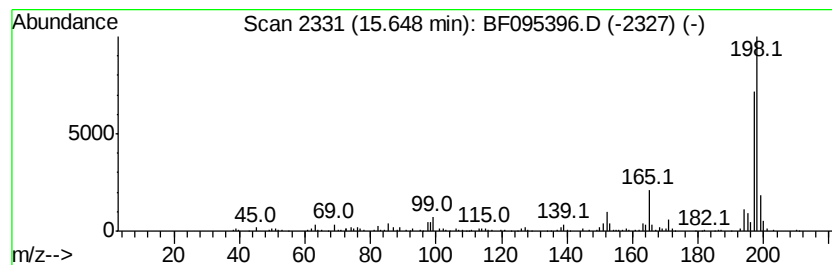
Instrument :
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ClientSampleId :
EP1-WC2(0-6)

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 Dibenzothiophene, 3-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.	
15.65	26.98 ng	533974	Phenanthrene-d10	15.00	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	93
2	Thioxanthene	198	C13H10S	000261-31-4	78
3	Tacrine	198	C13H14N2	000321-64-2	72
4	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	72
5	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	60



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052417\
Data File : BF095396.D
Acq On : 24 May 2017 18:59
Operator : SJ/MA
Sample : I3241-16
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
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ClientSampleId :
EP1-WC2(0-6)

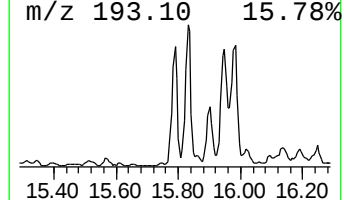
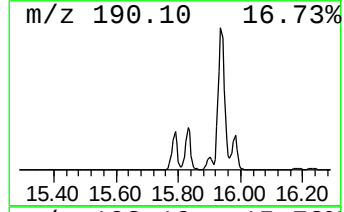
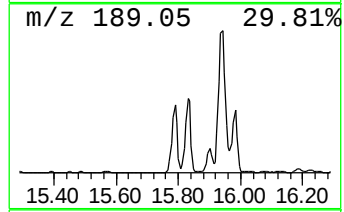
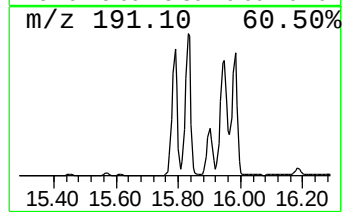
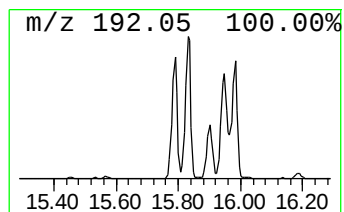
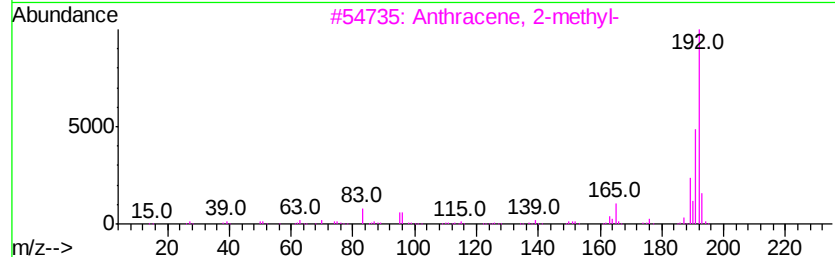
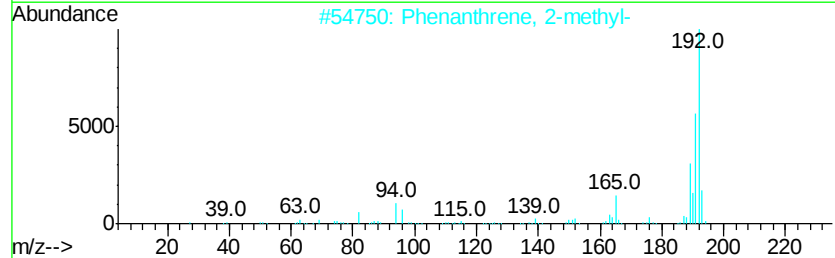
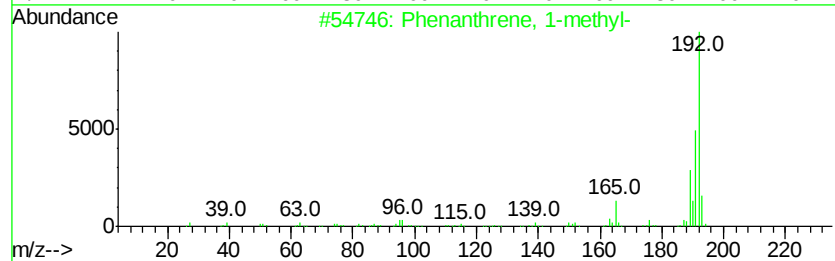
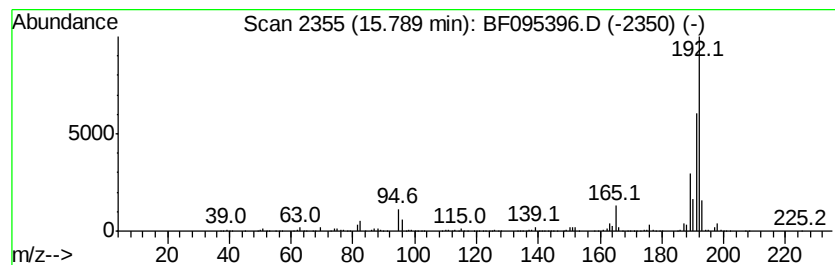
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.79	103.32 ng	2044820	Phenanthrene-d10	15.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3		Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
4		Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
5		Anthracene, 9-methyl-	192	C15H12	000779-02-2	87



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052417\
Data File : BF095396.D
Acq On : 24 May 2017 18:59
Operator : SJ/MA
Sample : I3241-16
Misc :
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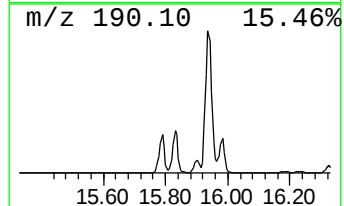
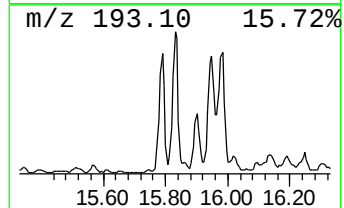
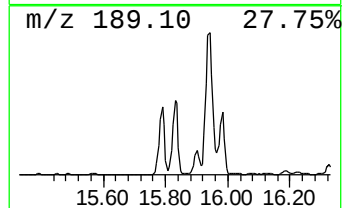
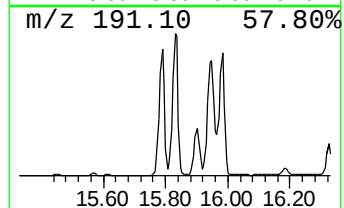
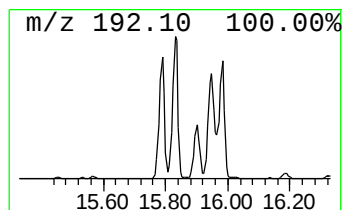
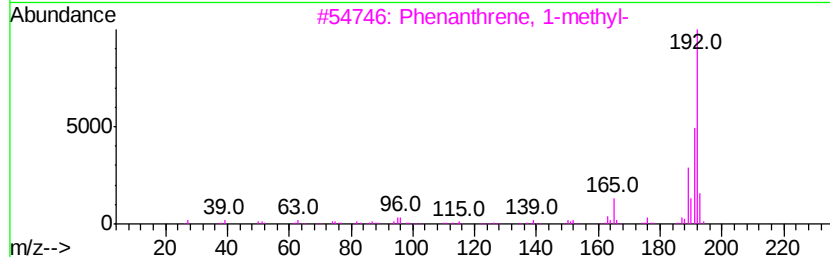
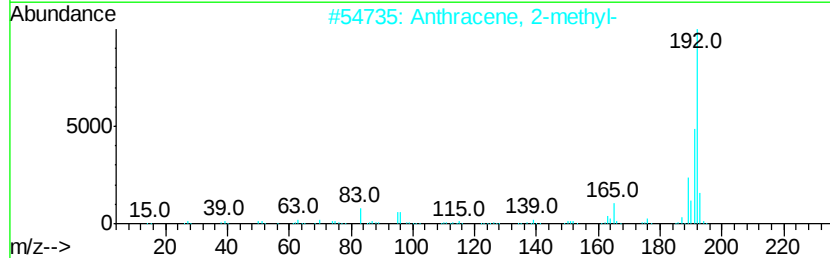
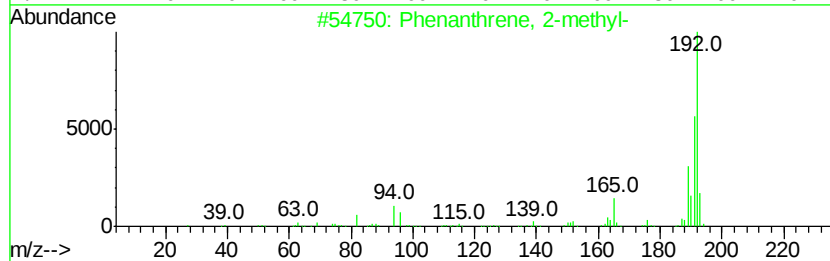
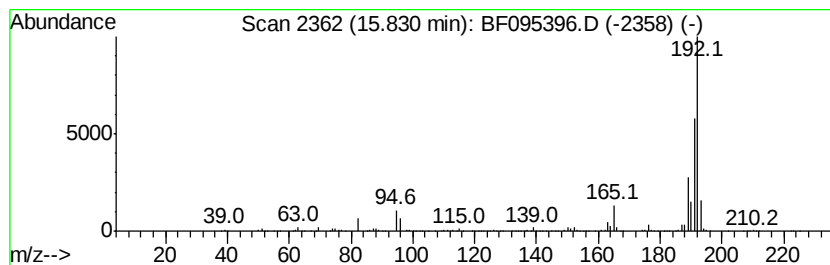
Instrument :
BNA_F
ClientSampleId :
EP1-WC2(0-6)

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 Phenanthrene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
15.83	113.31 ng	2242520	Phenanthrene-d10	15.00	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	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[1]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	94



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052417\
Data File : BF095396.D
Acq On : 24 May 2017 18:59
Operator : SJ/MA
Sample : I3241-16
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
EP1-WC2(0-6)

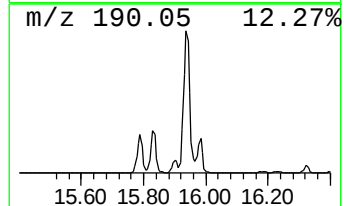
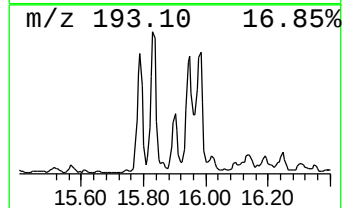
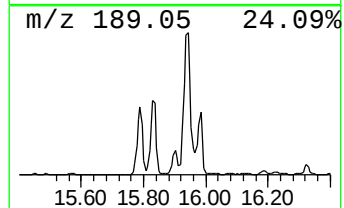
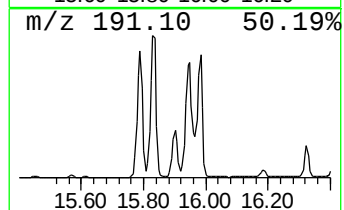
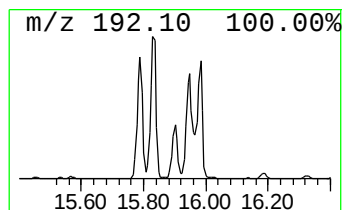
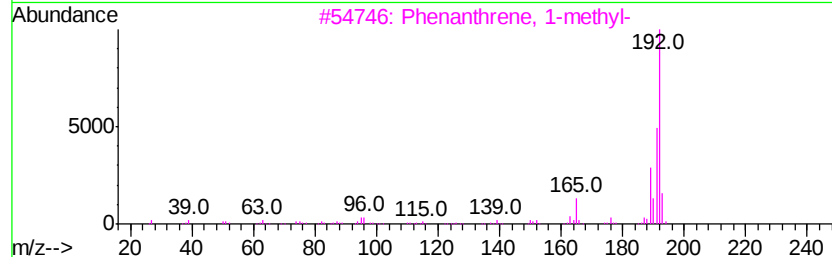
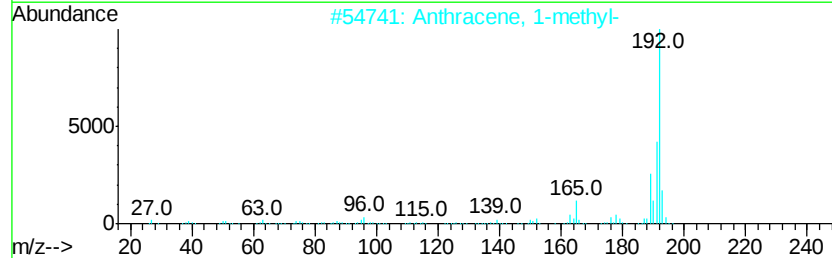
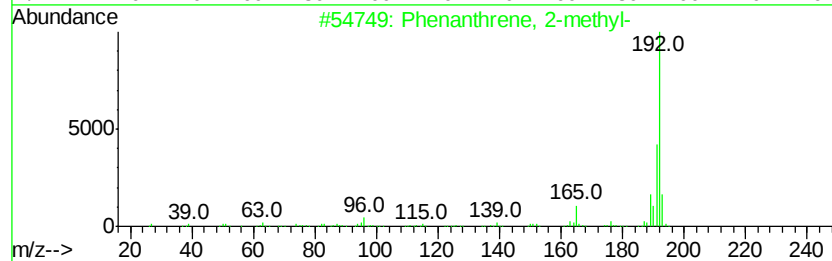
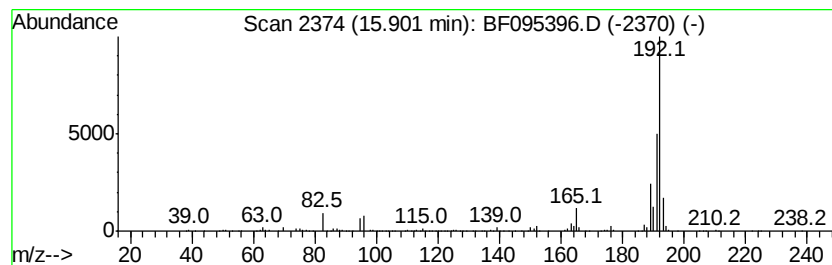
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Anthracene, 1-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.90	40.71 ng	805634	Phenanthrene-d10	15.00

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2		Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
3		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4		Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5		Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	95



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052417\
Data File : BF095396.D
Acq On : 24 May 2017 18:59
Operator : SJ/MA
Sample : I3241-16
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
EP1-WC2(0-6)

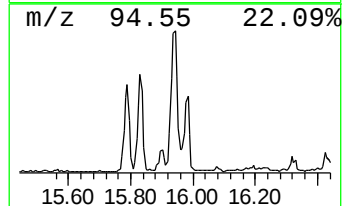
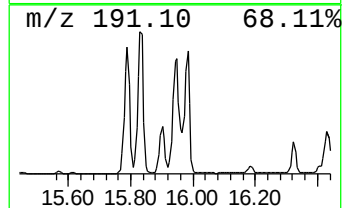
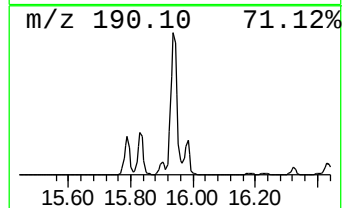
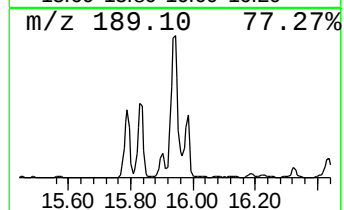
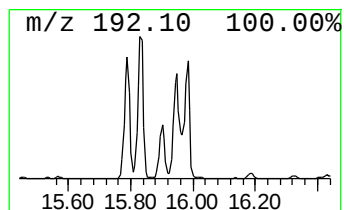
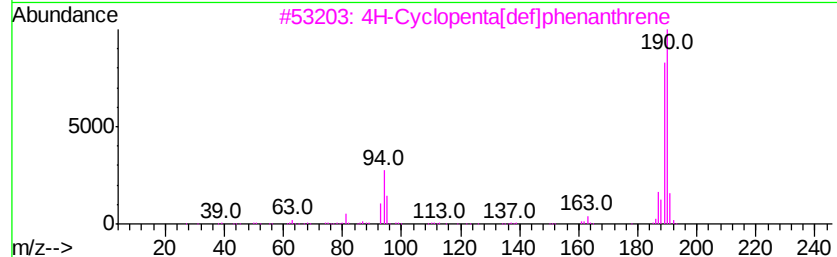
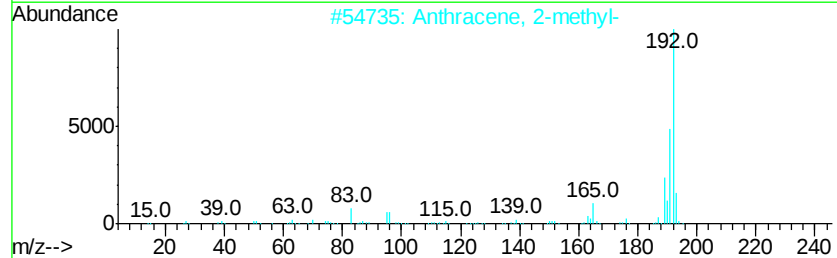
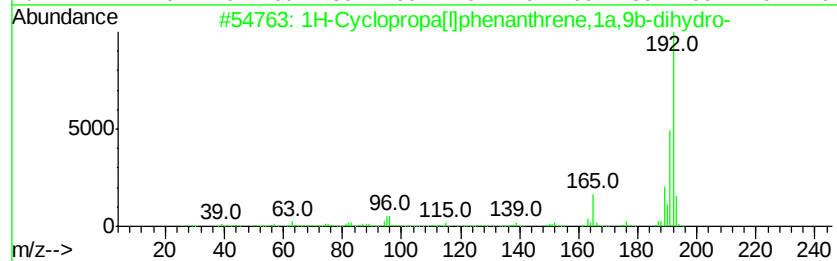
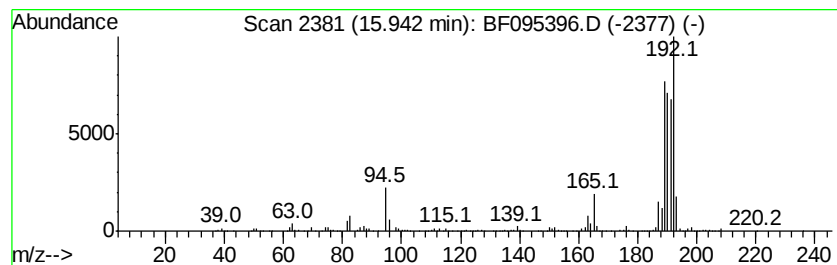
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 1H-Cyclopropa[l]phenanthren... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.94	160.29 ng	3172210	Phenanthrene-d10	15.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Cyclopropa[l]phenanthrene, 1a, ...	192	C15H12	000949-41-7	89
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	83
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	50
5	1a,9b-Dihydro-1H-cyclopropa[a]an...	192	C15H12	006109-24-6	50



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052417\
Data File : BF095396.D
Acq On : 24 May 2017 18:59
Operator : SJ/MA
Sample : I3241-16
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
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ClientSampleId :
EP1-WC2(0-6)

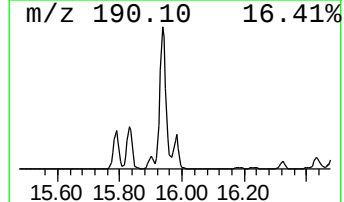
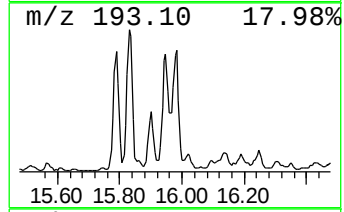
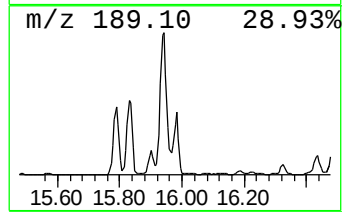
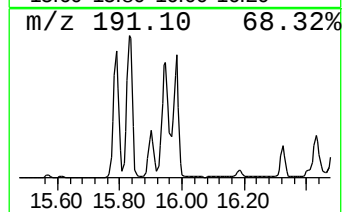
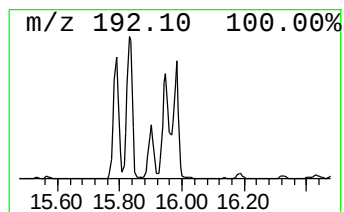
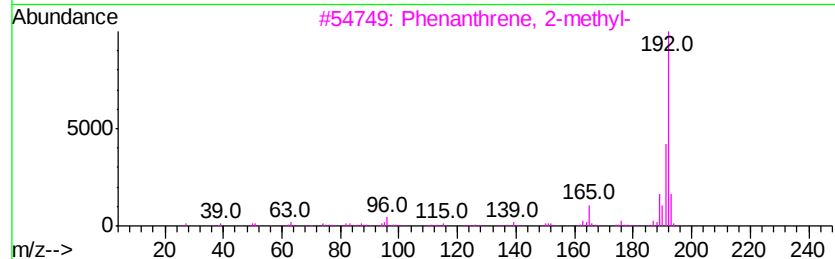
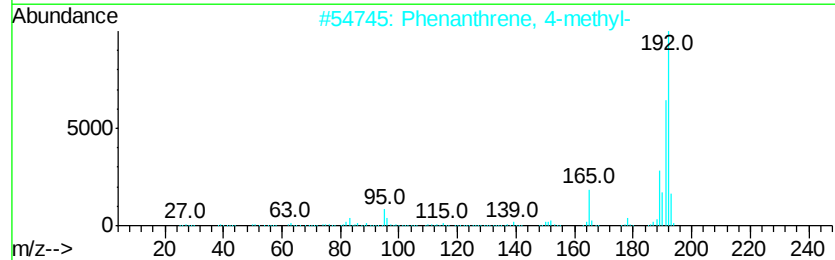
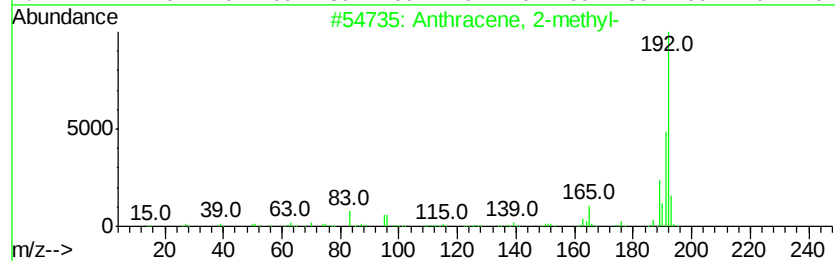
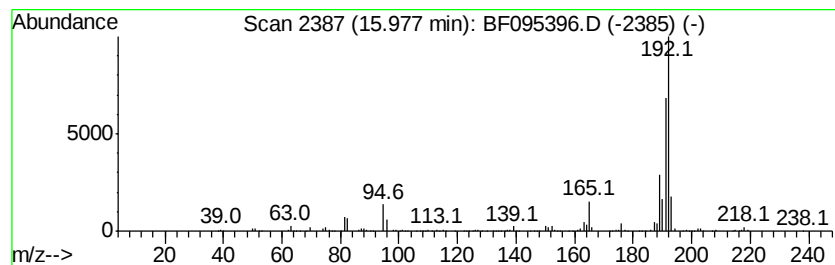
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Anthracene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.98	86.18 ng	1705590	Phenanthrene-d10	15.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
2		Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	94
3		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
4		Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5		Anthracene, 1-methyl-	192	C15H12	000610-48-0	91



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052417\
Data File : BF095396.D
Acq On : 24 May 2017 18:59
Operator : SJ/MA
Sample : I3241-16
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
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ClientSampleId :
EP1-WC2(0-6)

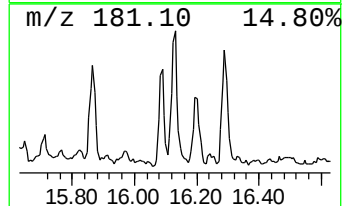
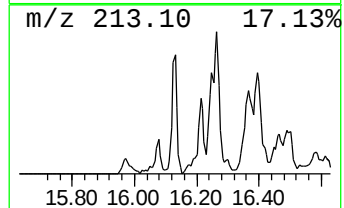
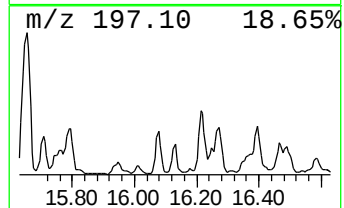
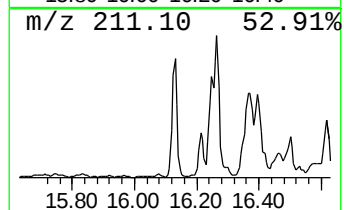
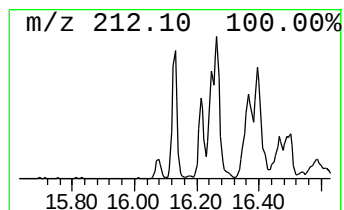
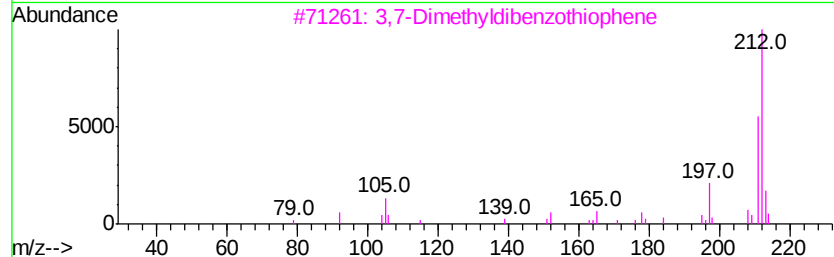
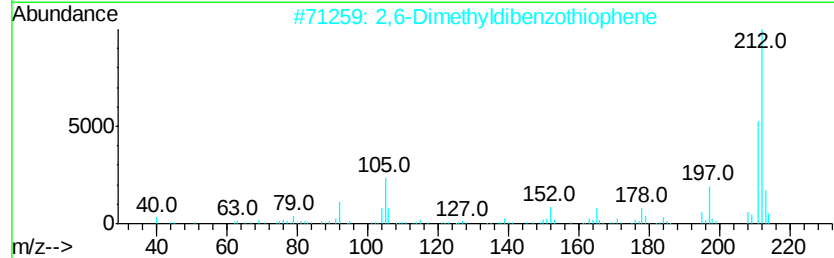
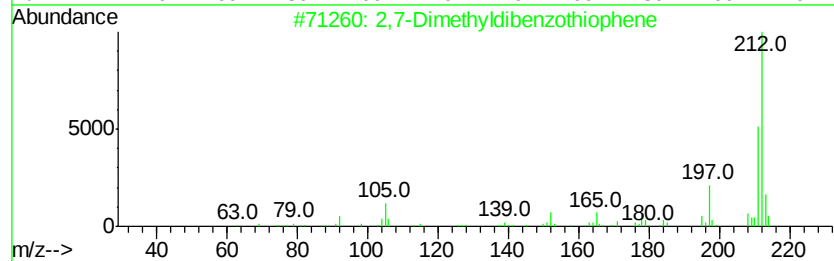
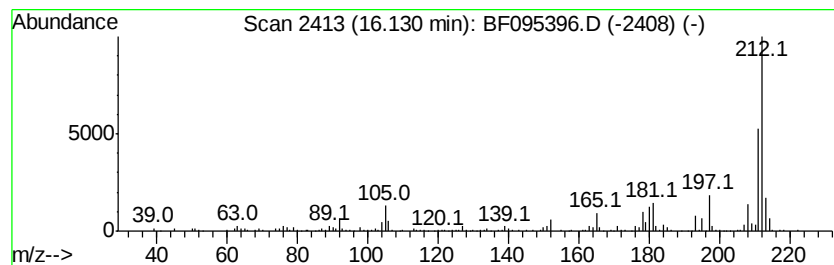
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 2,7-Dimethyldibenzothiophene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.13	26.48 ng	523994	Phenanthrene-d10	15.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	2,7-Dimethyldibenzothiophene	212	C14H12S	031317-19-8	98
2		2,6-Dimethyldibenzothiophene	212	C14H12S	089816-75-1	95
3		3,7-Dimethyldibenzothiophene	212	C14H12S	001136-85-2	94
4		2,8-Dimethyldibenzo(b,d)thiophene	212	C14H12S	001207-15-4	94
5		Dibenzothiophene, 4,6-dimethyl-	212	C14H12S	001207-12-1	94



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052417\
Data File : BF095396.D
Acq On : 24 May 2017 18:59
Operator : SJ/MA
Sample : I3241-16
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
EP1-WC2(0-6)

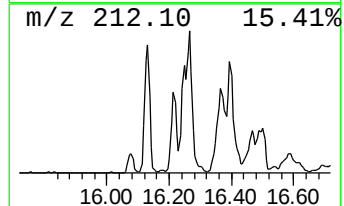
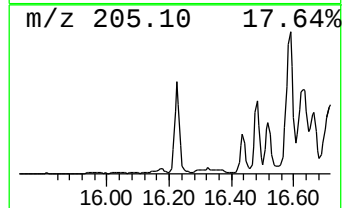
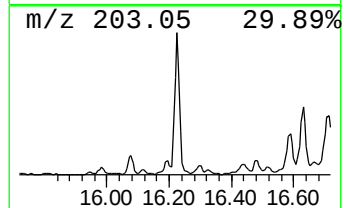
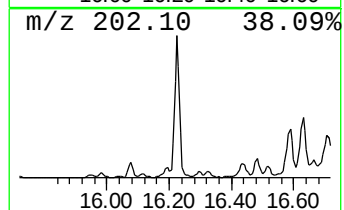
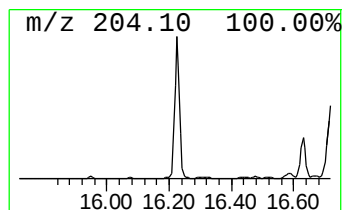
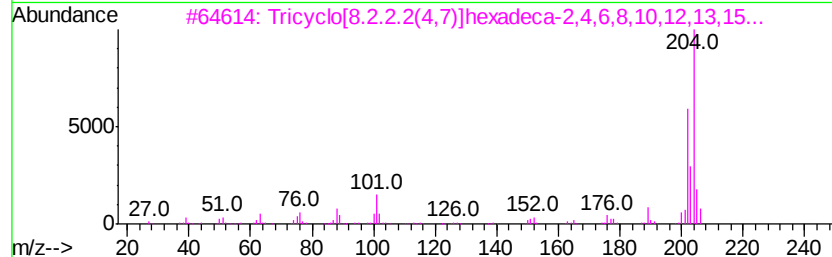
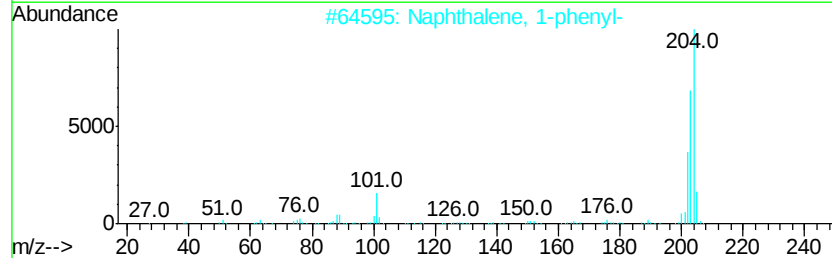
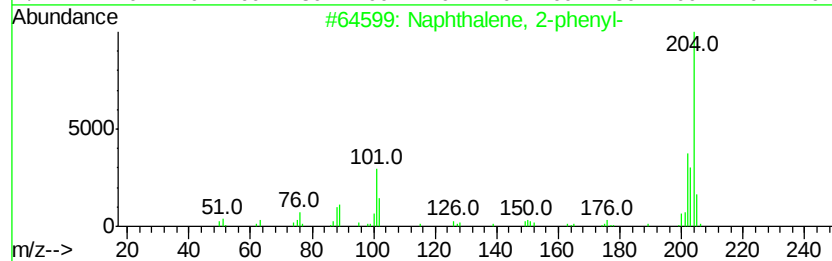
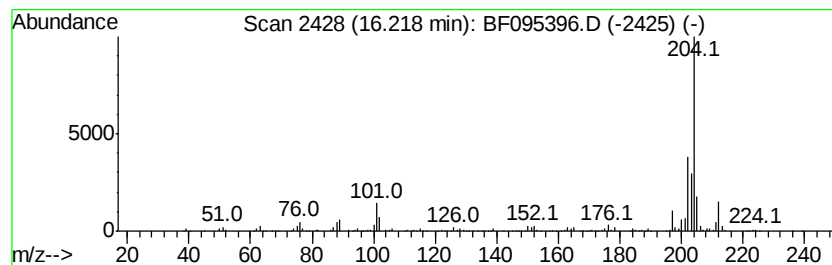
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Naphthalene, 2-phenyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.22	80.80 ng	1599040	Phenanthrene-d10	15.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	95
2		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	86
3		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	64
4		1,2,4,8-Tetramethylbicyclo[6.3.0]...	204	C15H24	137235-51-9	55
5		9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	53



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052417\
Data File : BF095396.D
Acq On : 24 May 2017 18:59
Operator : SJ/MA
Sample : I3241-16
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
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ClientSampleId :
EP1-WC2(0-6)

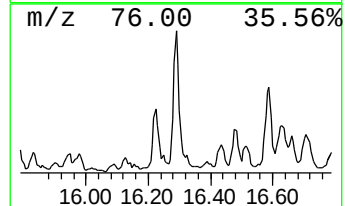
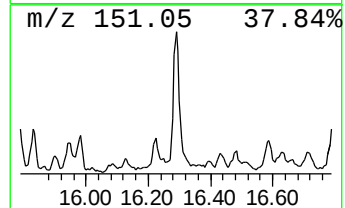
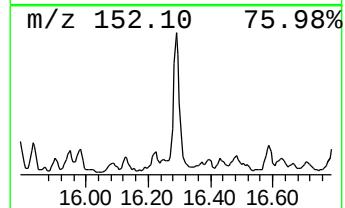
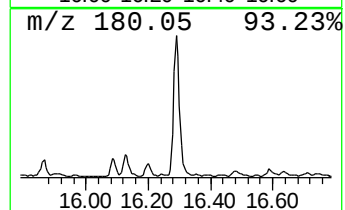
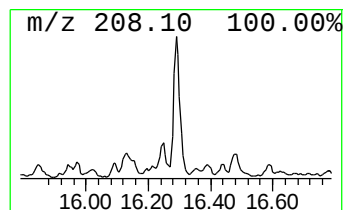
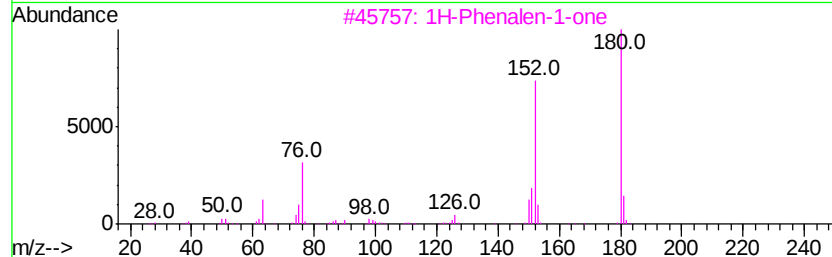
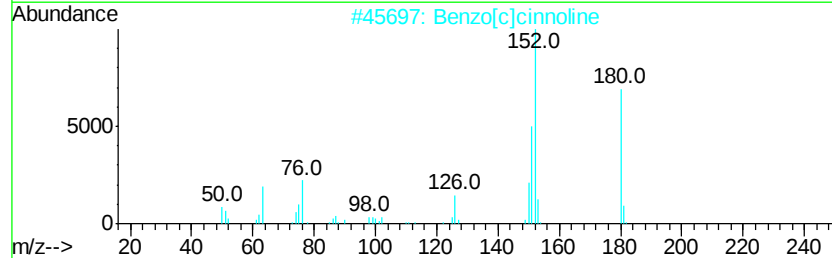
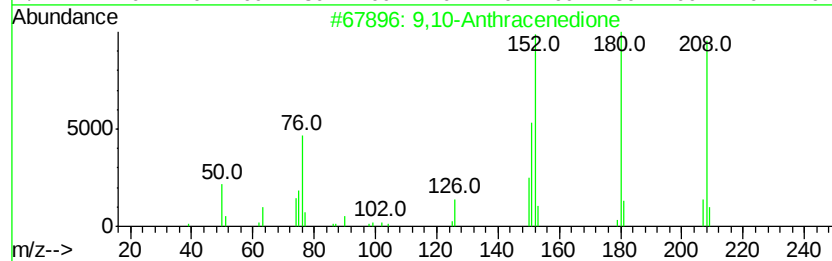
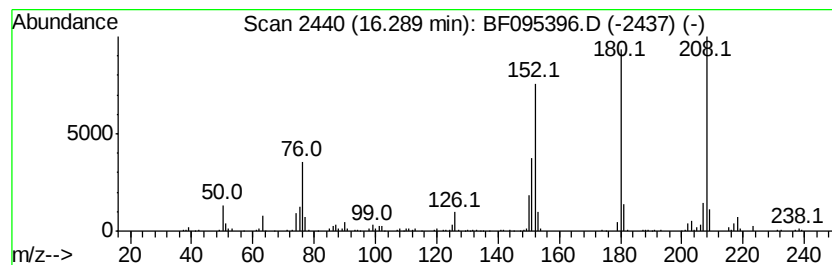
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 9,10-Anthracenedione Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.29	35.42 ng	700992	Phenanthrene-d10	15.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2		Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64
3		1H-Phenalen-1-one	180	C13H8O	000548-39-0	64
4		Benzo[ghi]cinnoline	180	C12H8N2	000230-31-9	52
5		9H-Fluoren-9-one	180	C13H8O	000486-25-9	50



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052417\
Data File : BF095396.D
Acq On : 24 May 2017 18:59
Operator : SJ/MA
Sample : I3241-16
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
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ClientSampleId :
EP1-WC2(0-6)

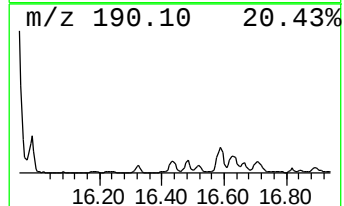
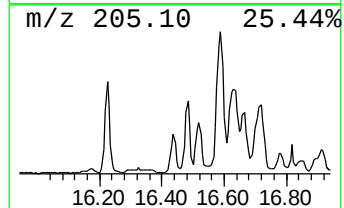
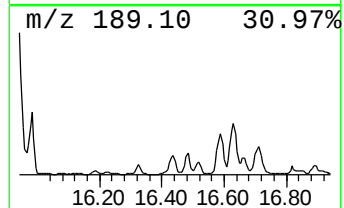
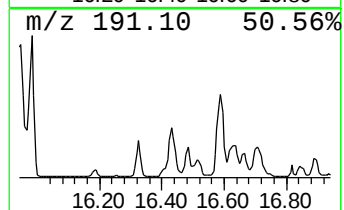
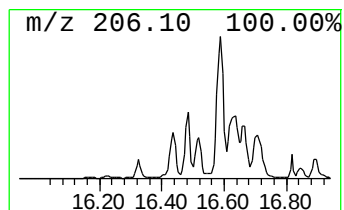
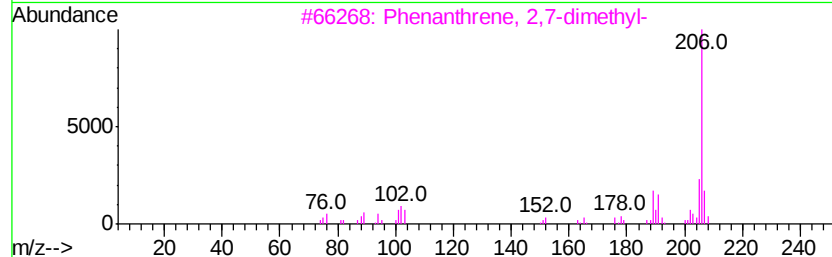
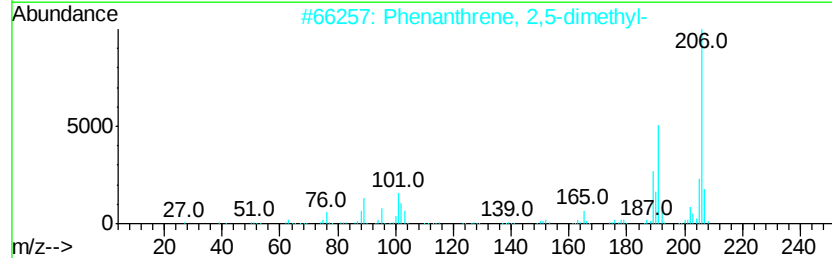
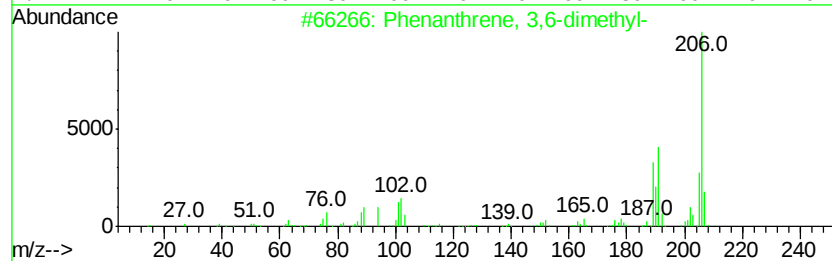
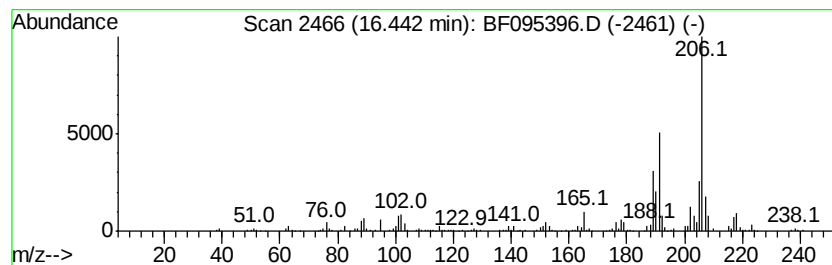
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Phenanthrene, 3,6-dimethyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.44	36.49 ng	722192	Phenanthrene-d10	15.00

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	97
2			Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
3			Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	96
4			Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
5			di-p-Tolylacetylene	206	C16H14	002789-88-0	83



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052417\
Data File : BF095396.D
Acq On : 24 May 2017 18:59
Operator : SJ/MA
Sample : I3241-16
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
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ClientSampleId :
EP1-WC2(0-6)

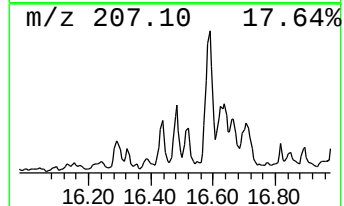
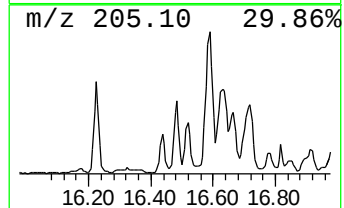
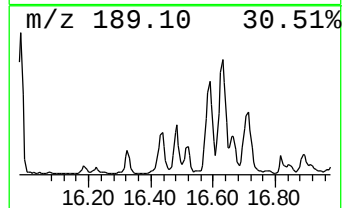
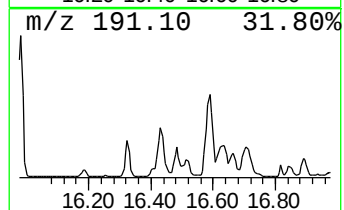
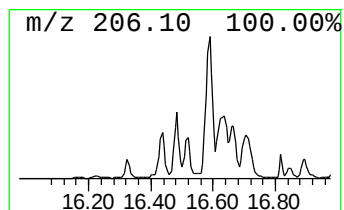
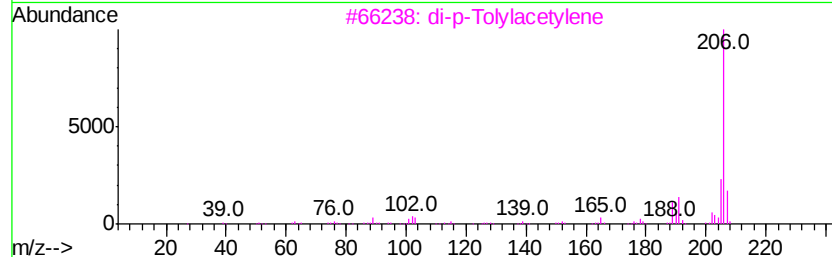
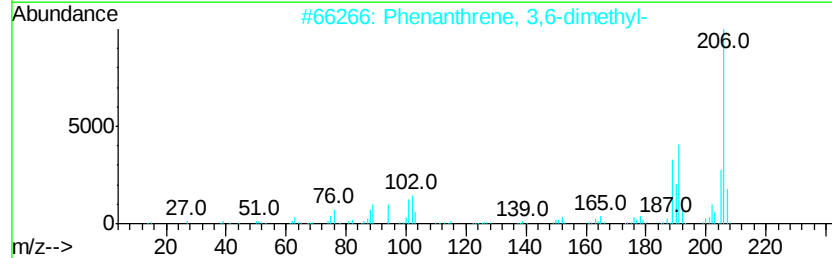
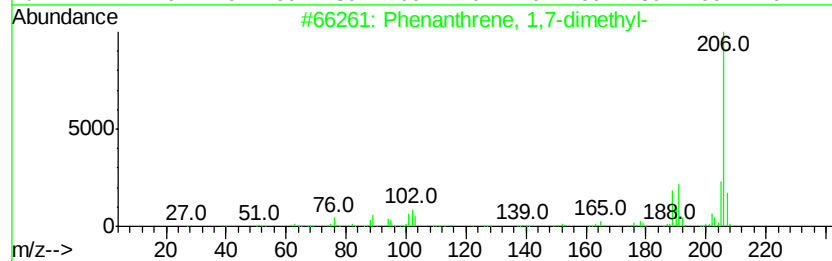
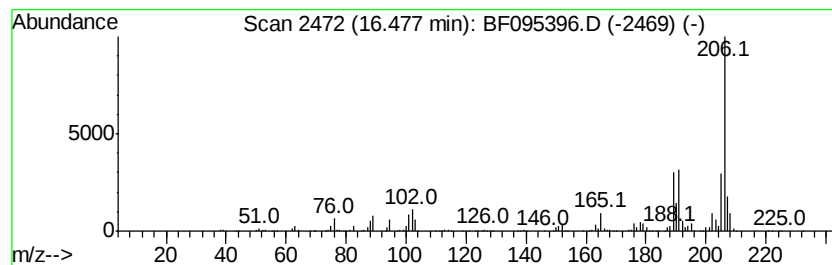
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 Phenanthrene, 1,7-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.48	42.17 ng	834532	Phenanthrene-d10	15.00

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	96
2			Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	96
3			di-p-Tolylacetylene	206	C16H14	002789-88-0	94
4			Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	93
5			Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	81



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052417\
Data File : BF095396.D
Acq On : 24 May 2017 18:59
Operator : SJ/MA
Sample : I3241-16
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
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ClientSampleId :
EP1-WC2(0-6)

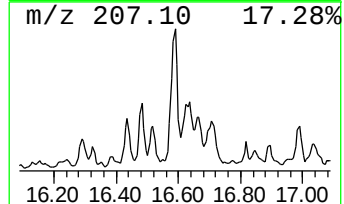
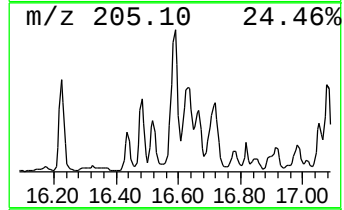
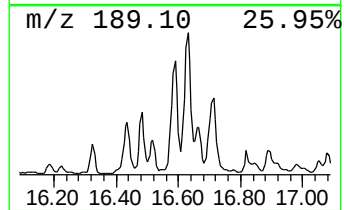
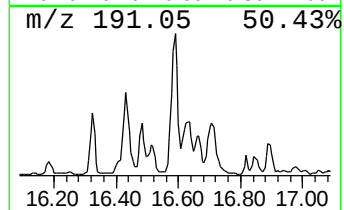
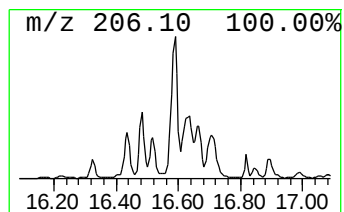
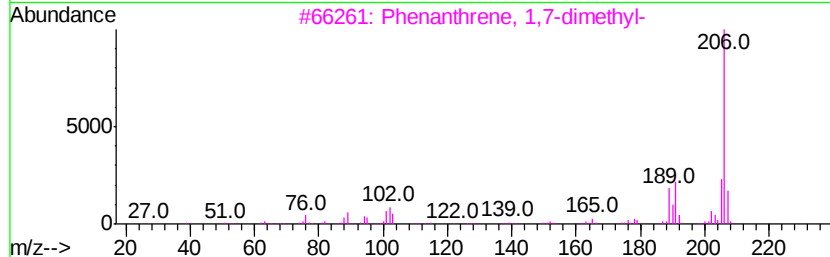
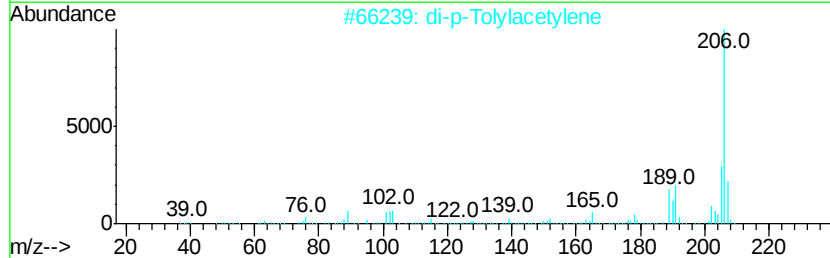
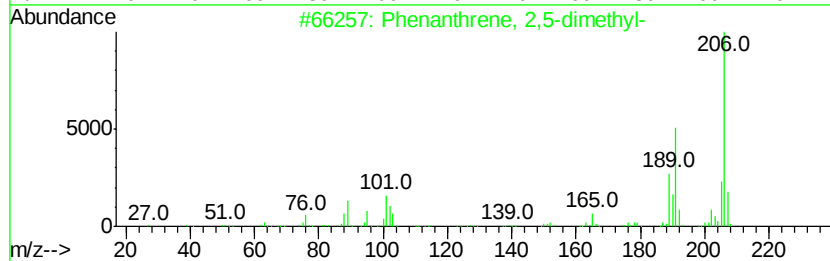
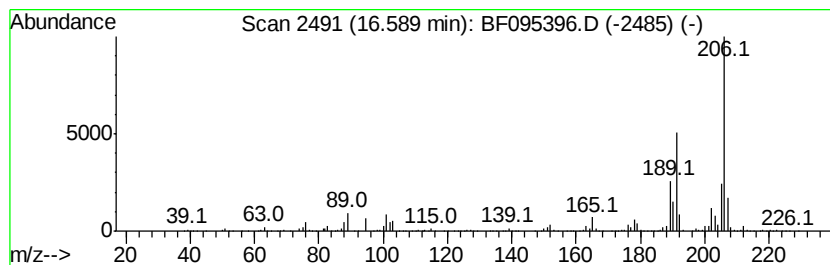
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Phenanthrene, 2,5-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.59	99.25 ng	1964220	Phenanthrene-d10	15.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2		di-p-Tolylacetylene	206	C16H14	002789-88-0	95
3		Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
4		Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
5		9,10-Dimethylantracene	206	C16H14	000781-43-1	93



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052417\
Data File : BF095396.D
Acq On : 24 May 2017 18:59
Operator : SJ/MA
Sample : I3241-16
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
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ClientSampleId :
EP1-WC2(0-6)

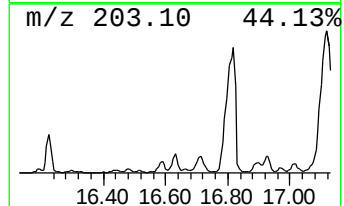
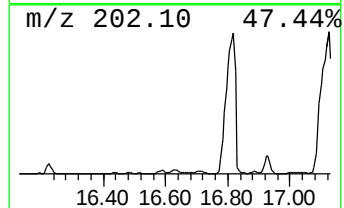
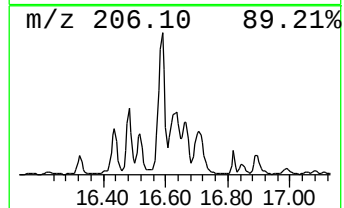
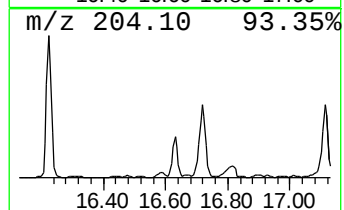
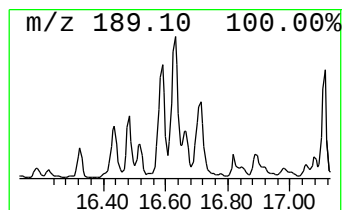
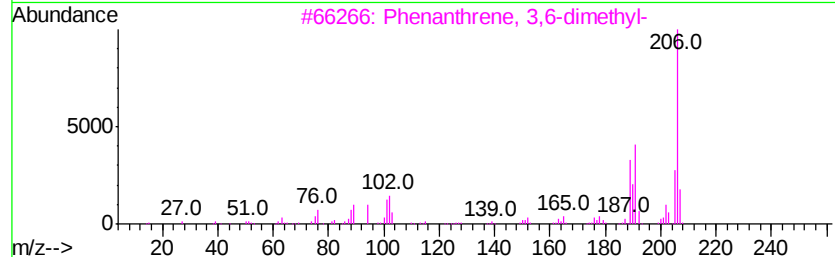
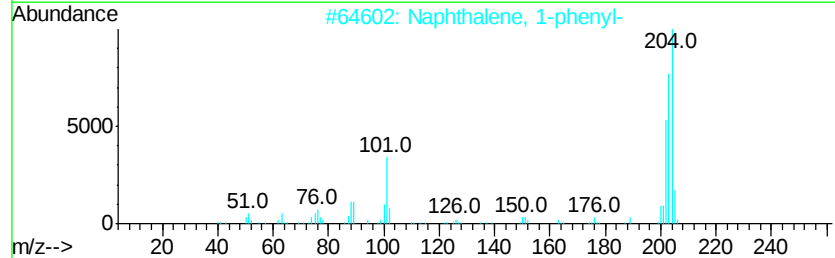
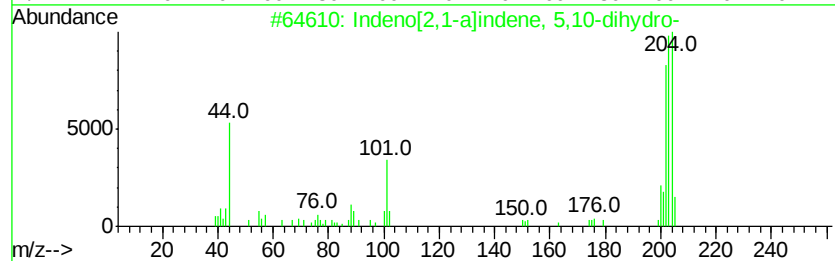
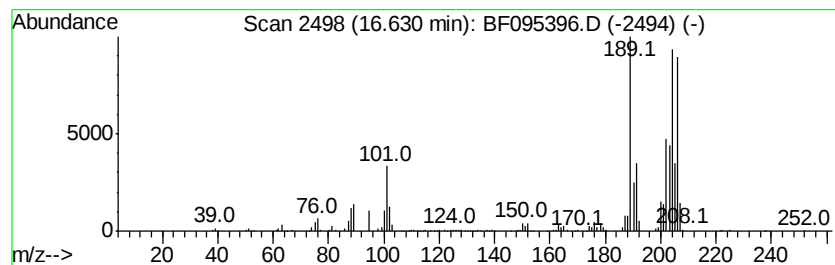
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 unknown16.63 Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.63	71.41 ng	1413180	Phenanthrene-d10	15.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	44
2		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	42
3		Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	42
4		Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	38
5		9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	38



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052417\
Data File : BF095396.D
Acq On : 24 May 2017 18:59
Operator : SJ/MA
Sample : I3241-16
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
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ClientSampleId :
EP1-WC2(0-6)

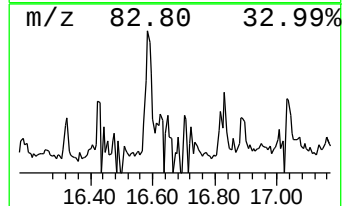
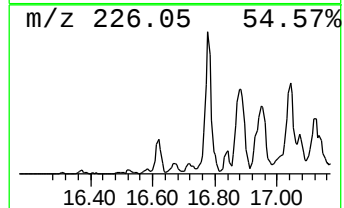
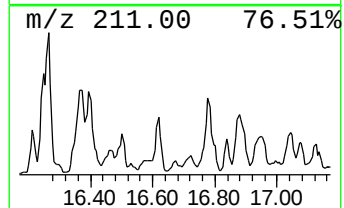
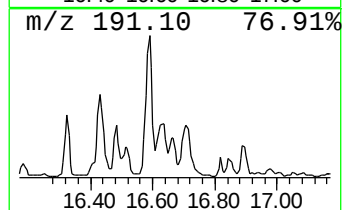
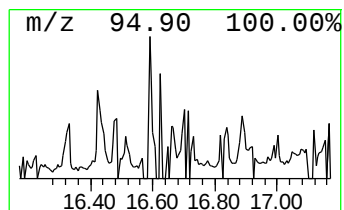
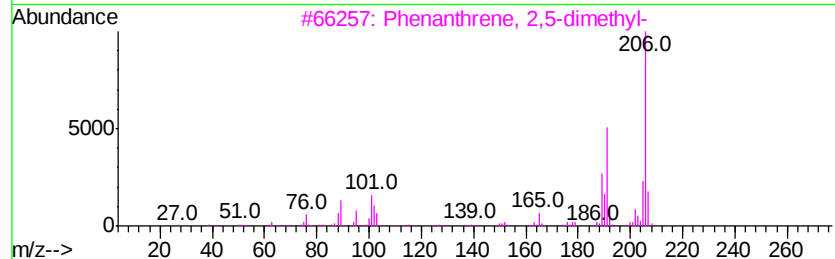
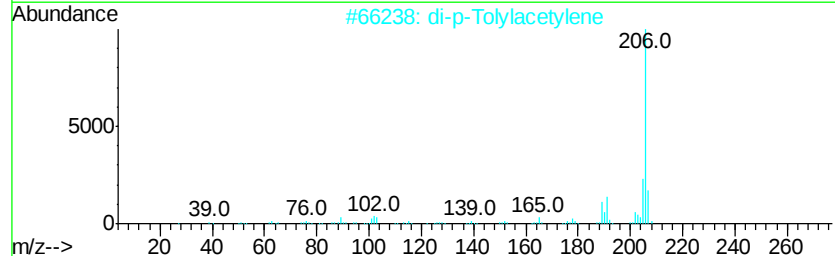
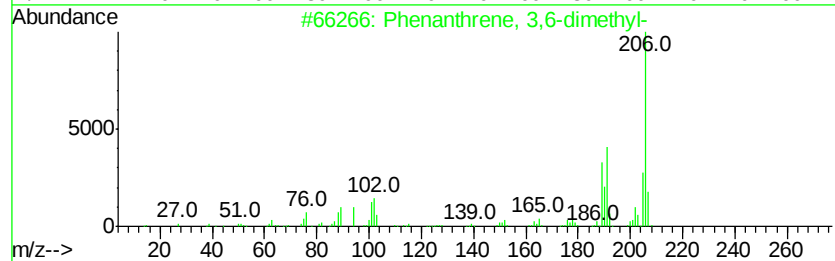
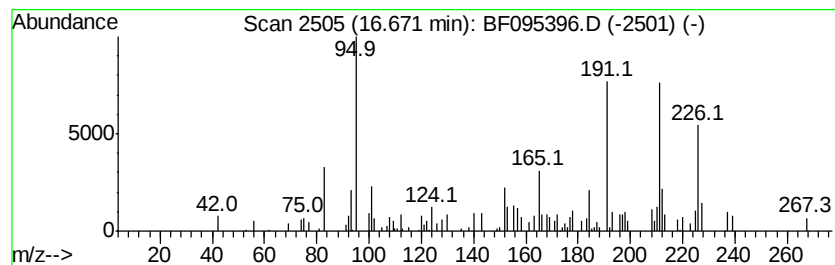
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 Phenanthrene, 2,3-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.67	21.61 ng	427639	Phenanthrene-d10	15.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	95
2		di-p-Tolylacetylene	206	C16H14	002789-88-0	90
3		Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	87
4		Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	86
5		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	76



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052417\
Data File : BF095396.D
Acq On : 24 May 2017 18:59
Operator : SJ/MA
Sample : I3241-16
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
EP1-WC2(0-6)

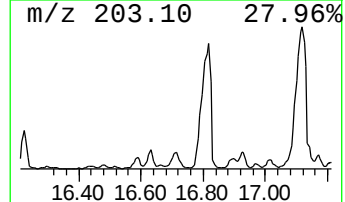
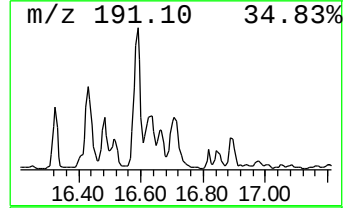
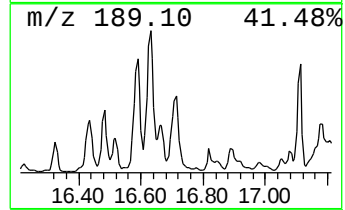
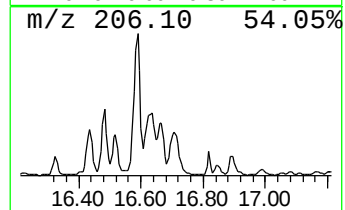
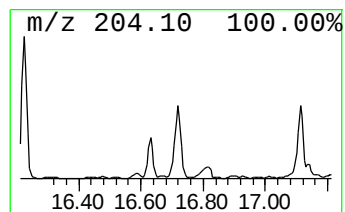
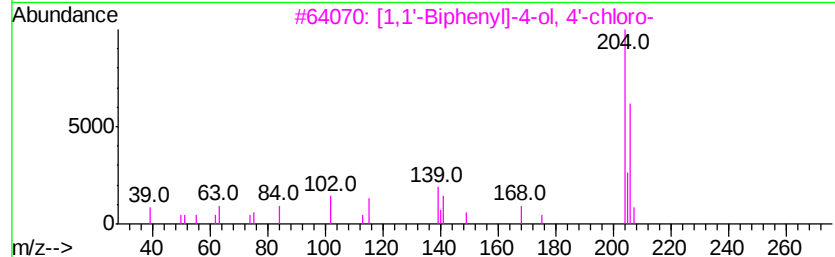
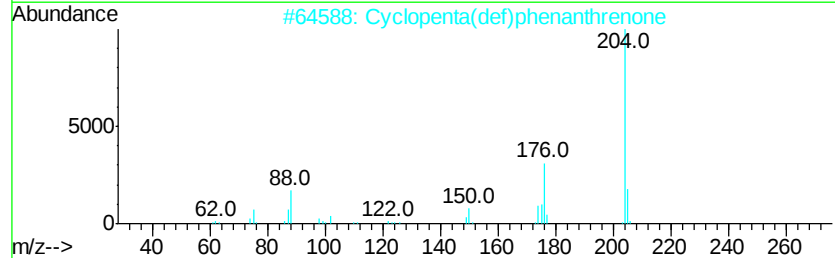
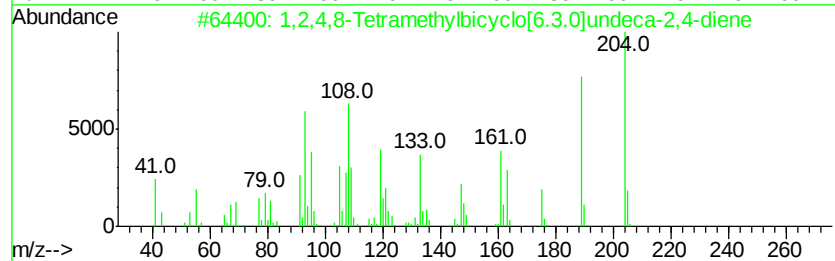
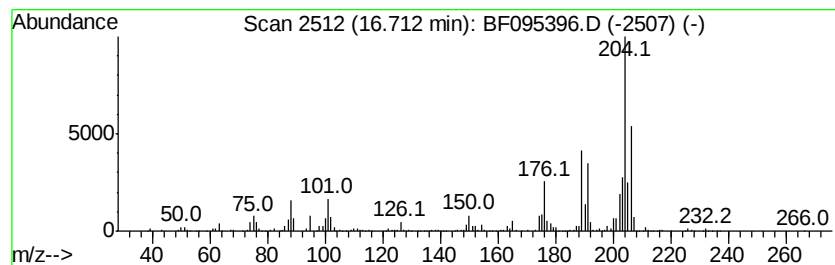
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 1,2,4,8-Tetramethylbicyclo[...] Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.71	78.28 ng	1549200	Phenanthrene-d10	15.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,2,4,8-Tetramethylbicyclo[6.3.0]...	204	C15H24	137235-51-9	95
2		Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	80
3		[1,1'-Biphenyl]-4-ol, 4'-chloro-	204	C12H9ClO	028034-99-3	43
4		[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	43
5		Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	41



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052417\
 Data File : BF095396.D
 Acq On : 24 May 2017 18:59
 Operator : SJ/MA
 Sample : I3241-16
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EP1-WC2(0-6)

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
unknown7.41	7.41	88.2	ng	1920030	1	7.75	435216	20.0
Dibenzothiophene	14.84	21.8	ng	431032	4	15.00	395820	20.0
Dibenzothiophene,...	15.52	32.6	ng	644916	4	15.00	395820	20.0
Dibenzothiophene,...	15.65	27.0	ng	533974	4	15.00	395820	20.0
Phenanthrene, 1-m...	15.79	103.3	ng	2044820	4	15.00	395820	20.0
Phenanthrene, 2-m...	15.83	113.3	ng	2242520	4	15.00	395820	20.0
Anthracene, 1-met...	15.90	40.7	ng	805634	4	15.00	395820	20.0
1H-Cyclopropa[l]p...	15.94	160.3	ng	3172210	4	15.00	395820	20.0
Anthracene, 2-met...	15.98	86.2	ng	1705590	4	15.00	395820	20.0
2,7-Dimethyldiben...	16.13	26.5	ng	523994	4	15.00	395820	20.0
Naphthalene, 2-ph...	16.22	80.8	ng	1599040	4	15.00	395820	20.0
9,10-Anthracenedione	16.29	35.4	ng	700992	4	15.00	395820	20.0
Phenanthrene, 3,6...	16.44	36.5	ng	722192	4	15.00	395820	20.0
Phenanthrene, 1,7...	16.48	42.2	ng	834532	4	15.00	395820	20.0
Phenanthrene, 2,5...	16.59	99.3	ng	1964220	4	15.00	395820	20.0
unknown16.63	16.63	71.4	ng	1413180	4	15.00	395820	20.0
Phenanthrene, 2,3...	16.67	21.6	ng	427639	4	15.00	395820	20.0
1,2,4,8-Tetrameth...	16.71	78.3	ng	1549200	4	15.00	395820	20.0