

Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\
 Data File : BF095443.D
 Acq On : 26 May 2017 1:45
 Operator : SJ/MA
 Sample : I3200-05 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 POST-EX-37-20170517

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	5.754	645	649	674	rBV2	63531	281462	13.99%	1.057%
2	7.342	915	919	931	rBV2	66881	231712	11.52%	0.870%
3	7.430	931	934	952	rVB	164482	447114	22.22%	1.678%
4	7.748	983	988	1000	rBV	353833	515329	25.61%	1.934%
5	7.983	1023	1028	1042	rBV	220692	327298	16.27%	1.229%
6	8.672	1141	1145	1158	rBV2	49859	154304	7.67%	0.579%
7	9.766	1327	1331	1354	rBV	364692	801137	39.82%	3.007%
8	10.948	1526	1532	1544	rBV	44432	91287	4.54%	0.343%
9	11.089	1552	1556	1573	rBV	52910	103639	5.15%	0.389%
10	11.542	1628	1633	1643	rBV	325356	498991	24.80%	1.873%
11	11.965	1700	1705	1713	rBV3	36102	80543	4.00%	0.302%
12	12.071	1718	1723	1727	rBV	78690	120905	6.01%	0.454%
13	12.118	1727	1731	1737	rVB	46097	71942	3.58%	0.270%
14	12.248	1748	1753	1756	rBV2	53605	97599	4.85%	0.366%
15	12.377	1770	1775	1783	rBV	102170	170880	8.49%	0.641%
16	12.601	1808	1813	1819	rBV2	519952	767102	38.13%	2.880%
17	12.654	1819	1822	1829	rVB	92439	129257	6.42%	0.485%
18	12.948	1867	1872	1882	rBV2	107448	211437	10.51%	0.794%
19	13.030	1882	1886	1891	rVB	34561	47861	2.38%	0.180%
20	13.148	1901	1906	1911	rVB2	46088	65182	3.24%	0.245%
21	13.195	1911	1914	1922	rBV	35819	50839	2.53%	0.191%
22	13.295	1922	1931	1933	rBV4	30602	57093	2.84%	0.214%
23	13.430	1950	1954	1959	rBV5	38935	63637	3.16%	0.239%
24	13.501	1961	1966	1974	rVB2	141202	224483	11.16%	0.843%
25	13.771	2008	2012	2023	rBV3	71089	122140	6.07%	0.458%
26	13.912	2029	2036	2043	rBV3	152381	323987	16.10%	1.216%
27	14.230	2088	2090	2096	rVV3	44375	68308	3.40%	0.256%
28	14.401	2112	2119	2122	rBV2	52425	96450	4.79%	0.362%
29	14.442	2123	2126	2131	rVB2	41215	57977	2.88%	0.218%
30	14.624	2152	2157	2161	rBV4	51972	95763	4.76%	0.359%
31	14.730	2171	2175	2180	rBV	89966	134682	6.69%	0.506%
32	14.795	2182	2186	2190	rVV3	46721	85714	4.26%	0.322%
33	14.836	2190	2193	2197	rVB	91087	111061	5.52%	0.417%
34	15.001	2215	2221	2224	rVV	488400	624569	31.04%	2.345%

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

35	15.042	2224	2228	2237	rVV	1608311	2011834	100.00%	7.552%
36	15.124	2238	2242	2252	rVB	228483	361156	17.95%	1.356%
37	15.218	2254	2258	2262	rBV3	43978	68773	3.42%	0.258%
38	15.424	2290	2293	2301	rVB2	43522	81437	4.05%	0.306%
39	15.524	2307	2310	2314	rVB2	59476	72660	3.61%	0.273%
40	15.653	2328	2332	2338	rBV3	45893	72405	3.60%	0.272%
41	15.783	2350	2354	2358	rBV	304366	336123	16.71%	1.262%
42	15.824	2358	2361	2367	rVV	349797	417805	20.77%	1.568%
43	15.900	2370	2374	2376	rBV	81218	97066	4.82%	0.364%
44	15.936	2376	2380	2384	rVV2	372006	503327	25.02%	1.889%
45	15.977	2384	2387	2392	rVB	202150	272305	13.54%	1.022%
46	16.130	2409	2413	2416	rVV2	42955	60014	2.98%	0.225%
47	16.224	2425	2429	2434	rVV	161277	221199	10.99%	0.830%
48	16.283	2435	2439	2444	rVV2	139335	198499	9.87%	0.745%
49	16.324	2444	2446	2450	rVB	45810	48410	2.41%	0.182%
50	16.430	2461	2464	2468	rBV2	81787	109448	5.44%	0.411%
51	16.477	2469	2472	2475	rBV	69687	70839	3.52%	0.266%
52	16.512	2476	2478	2482	rVB	50768	52761	2.62%	0.198%
53	16.583	2485	2490	2493	rBV	229225	305680	15.19%	1.147%
54	16.624	2493	2497	2501	rBV2	145574	179716	8.93%	0.675%
55	16.659	2501	2503	2505	rVB	66329	54601	2.71%	0.205%
56	16.700	2505	2510	2517	rBV3	163187	257008	12.77%	0.965%
57	16.789	2520	2525	2529	rBV	1626307	1867568	92.83%	7.011%
58	16.883	2537	2541	2543	rBV3	78276	103132	5.13%	0.387%
59	16.918	2544	2547	2553	rVB2	112885	142698	7.09%	0.536%
60	16.983	2555	2558	2561	rBV2	49241	64049	3.18%	0.240%
61	17.024	2562	2565	2569	rVB2	68682	81474	4.05%	0.306%
62	17.089	2571	2576	2581	rVB	1569913	1859819	92.44%	6.982%
63	17.200	2593	2595	2599	rVB2	49278	55643	2.77%	0.209%
64	17.277	2604	2608	2611	rBV	101573	112713	5.60%	0.423%
65	17.324	2612	2616	2623	rVB2	351349	488127	24.26%	1.832%
66	17.400	2623	2629	2634	rBV3	135675	257015	12.78%	0.965%
67	17.518	2644	2649	2651	rBV3	116025	178973	8.90%	0.672%
68	17.547	2652	2654	2660	rVB	177816	212800	10.58%	0.799%
69	17.612	2660	2665	2666	rBV4	41493	64374	3.20%	0.242%
70	17.636	2666	2669	2673	rVB2	104371	120096	5.97%	0.451%
71	17.683	2673	2677	2683	rBV2	263397	395134	19.64%	1.483%

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72	17.800	2694	2697	2701	rVB	137052	150017	7.46%	0.563%
73	17.842	2701	2704	2709	rBV	114255	130230	6.47%	0.489%
74	18.236	2768	2771	2775	rVV	174891	184741	9.18%	0.693%
75	18.353	2787	2791	2793	rVV2	90021	113266	5.63%	0.425%
76	18.383	2793	2796	2799	rVV2	194923	222084	11.04%	0.834%
77	18.418	2799	2802	2805	rVV	98061	109617	5.45%	0.411%
78	18.453	2805	2808	2812	rVB2	84411	102841	5.11%	0.386%
79	18.512	2814	2818	2823	rVV	140089	179467	8.92%	0.674%
80	18.571	2826	2828	2832	rVB2	41970	51379	2.55%	0.193%
81	18.671	2840	2845	2849	rBV2	870530	1463901	72.76%	5.495%
82	18.712	2849	2852	2860	rVV	752524	948847	47.16%	3.562%
83	18.806	2864	2868	2871	rVB3	81227	102863	5.11%	0.386%
84	18.900	2881	2884	2890	rVB6	58702	109094	5.42%	0.410%
85	18.959	2891	2894	2898	rBV3	50611	65632	3.26%	0.246%
86	19.000	2899	2901	2906	rVB3	50322	69106	3.43%	0.259%
87	19.183	2927	2932	2936	rBV	186909	233993	11.63%	0.878%
88	19.224	2936	2939	2943	rVB	108958	121321	6.03%	0.455%
89	19.271	2944	2947	2948	rBV3	60314	60621	3.01%	0.228%
90	19.336	2955	2958	2961	rBV2	69590	101840	5.06%	0.382%
91	19.788	3032	3035	3040	rBV3	75632	98196	4.88%	0.369%
92	19.947	3058	3062	3065	rBV	498721	707603	35.17%	2.656%
93	19.977	3065	3067	3074	rVV2	254246	307514	15.29%	1.154%
94	20.059	3078	3081	3087	rBV	92823	122566	6.09%	0.460%
95	20.241	3108	3112	3116	rBV	322712	358264	17.81%	1.345%
96	20.300	3118	3122	3128	rBV	375156	431664	21.46%	1.620%
97	20.359	3128	3132	3135	rBV	297257	358006	17.80%	1.344%
98	21.694	3354	3359	3367	rVB	129115	218099	10.84%	0.819%
99	22.082	3420	3425	3432	rVB	132457	282711	14.05%	1.061%
100	22.324	3463	3466	3469	rBV5	28562	45254	2.25%	0.170%

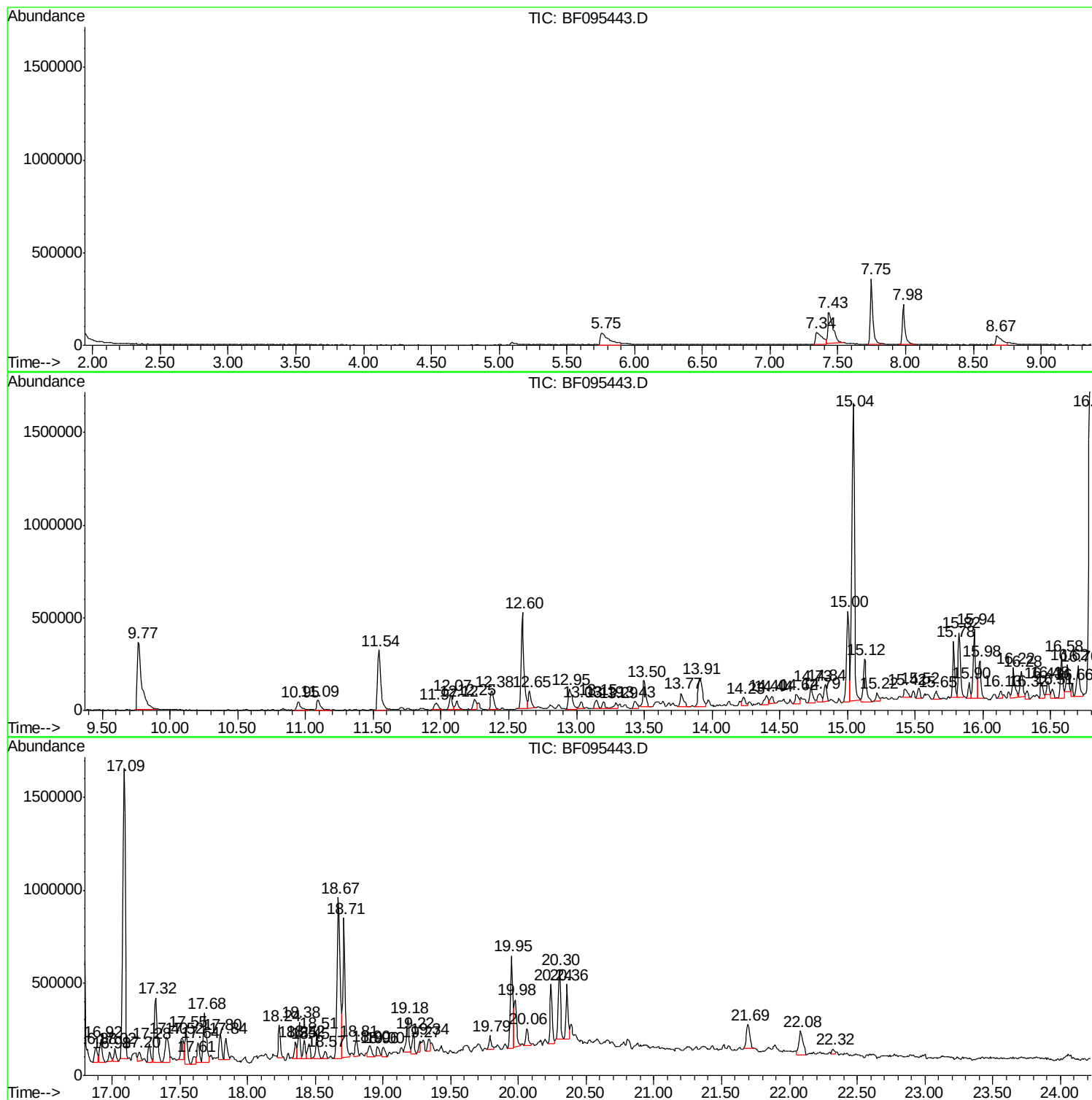
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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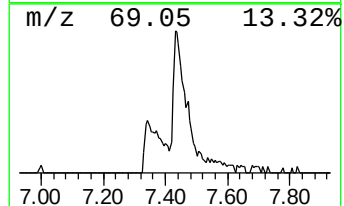
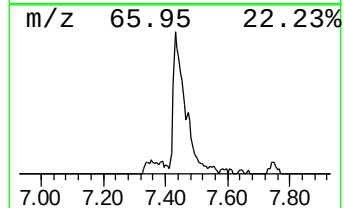
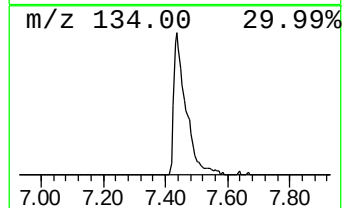
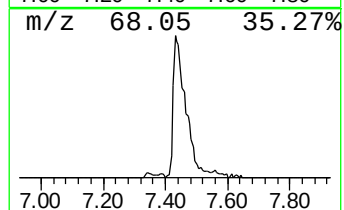
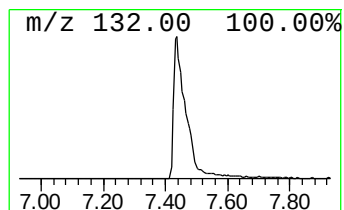
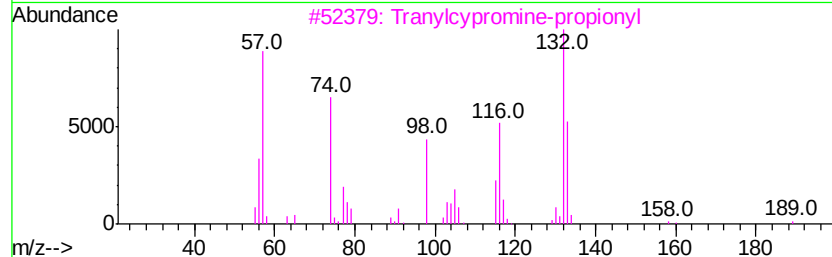
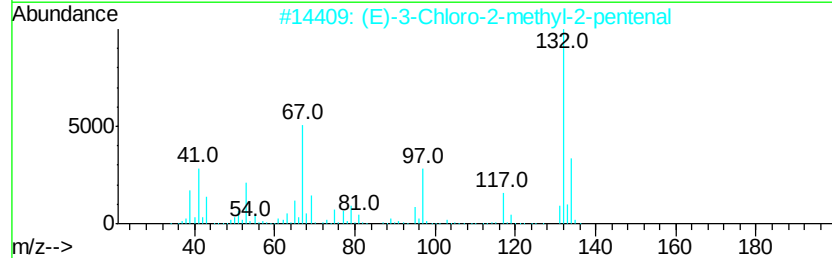
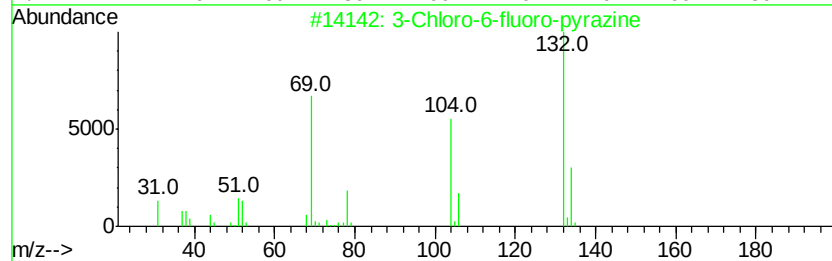
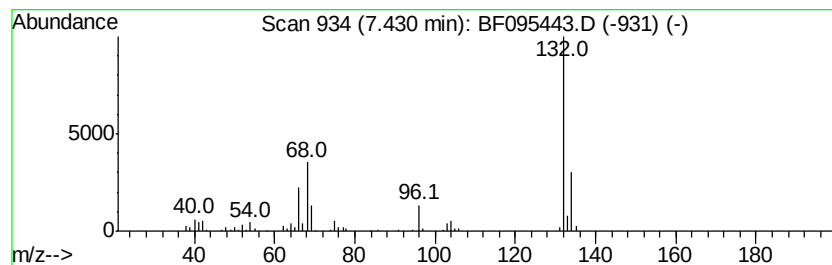
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 unknown7.43 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.43	17.35 ng	447114	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	35
2		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	25
3		Tranvlcypromine-propionyl	189	C12H15NO	1000123-86-3	9
4		2H-Cyclopenta[d]pyridazine, 2-me...	132	C8H8N2	022291-85-6	9
5		4-Methylpyrrolo[1,2-a]pyrazine	132	C8H8N2	064608-60-2	9



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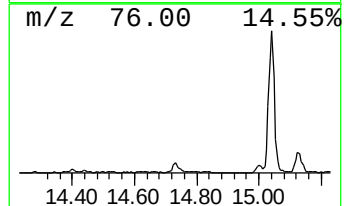
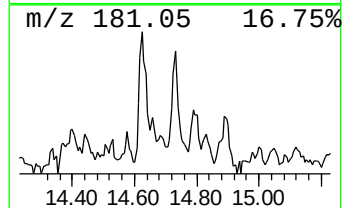
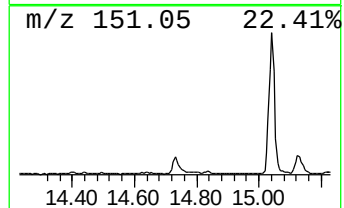
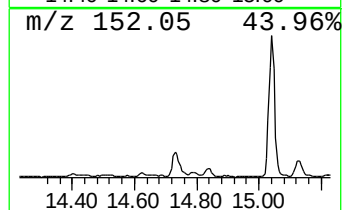
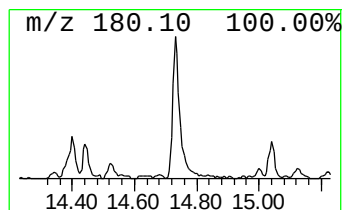
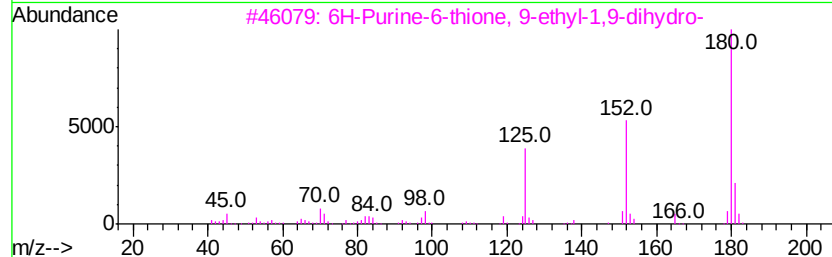
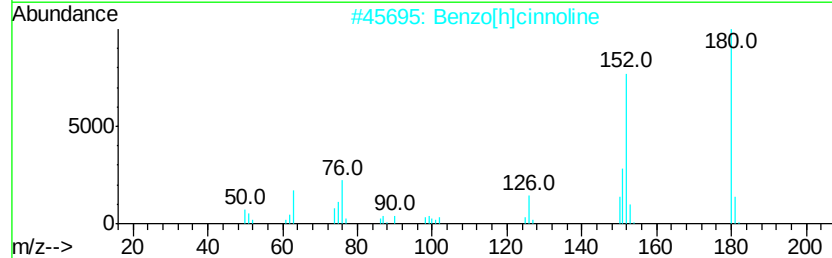
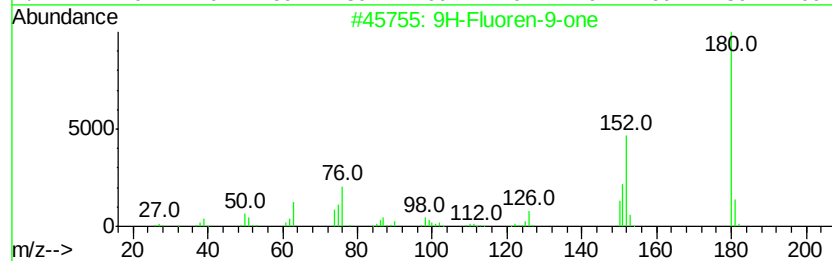
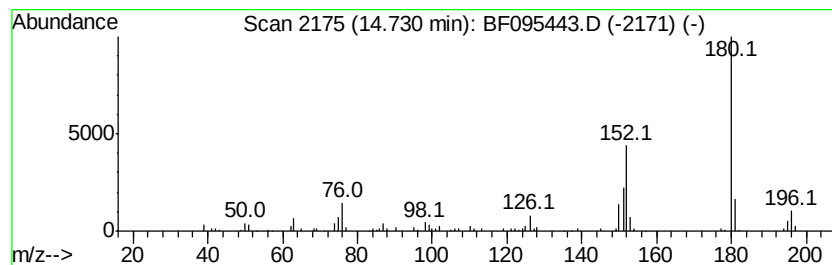
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 9H-Fluoren-9-one Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD		R.T.	
14.73	4.31 ng	134682	Phenanthrene-d10		15.00	
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one		180	C13H8O	000486-25-9	93
2	Benzo[h]cinnoline		180	C12H8N2	000230-31-9	90
3	6H-Purine-6-thione, 9-ethyl-1,9-...		180	C7H8N4S	005427-20-3	53
4	2,3-Diazaphenanthrene		180	C12H8N2	000229-72-1	53
5	1H-Phenalen-1-one		180	C13H8O	000548-39-0	53



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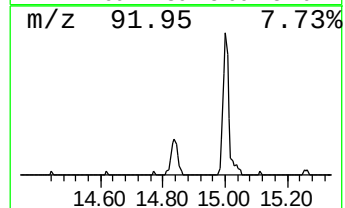
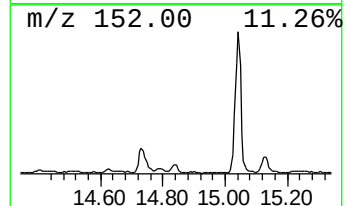
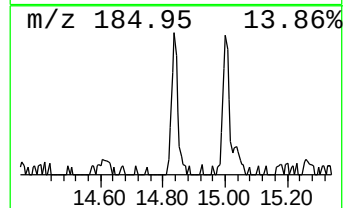
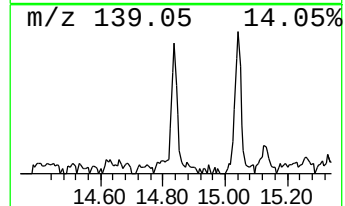
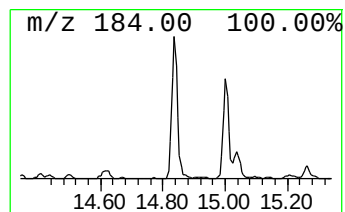
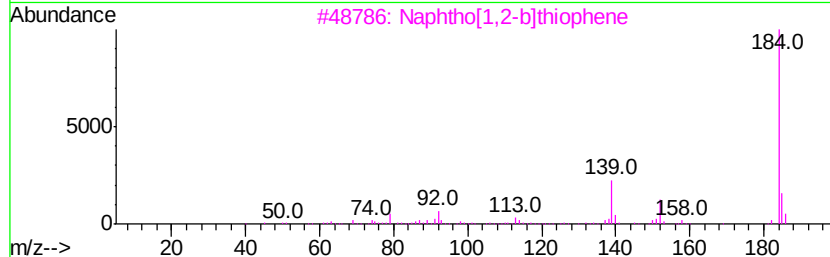
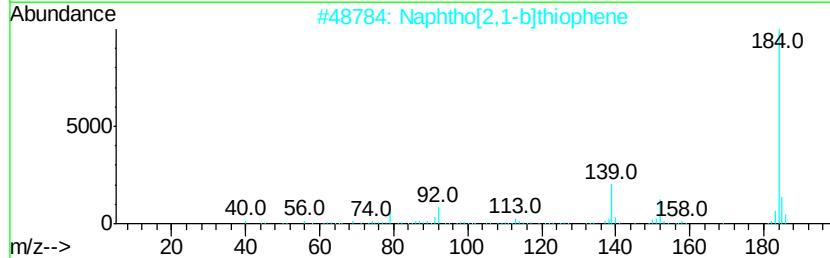
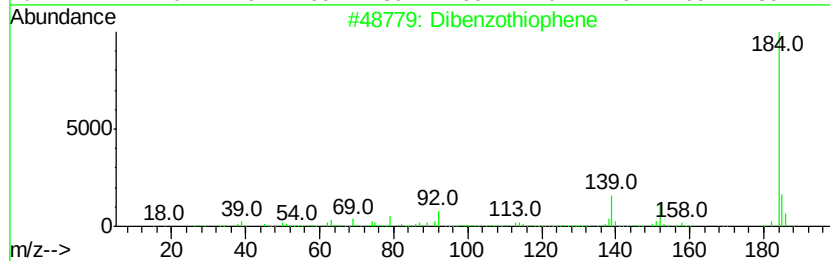
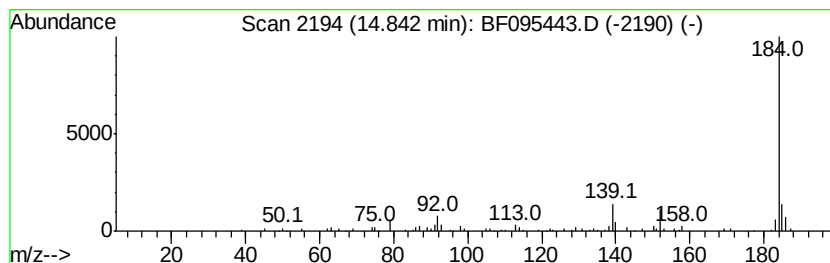
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TIC Integration Parameters: LSCINT.P

Peak Number 4 Dibenzothiophene Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.84	3.56 ng	111061	Phenanthrene-d10	15.00

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Dibenzothiophene	184	C12H8S	000132-65-0	96
2			Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	96
3			Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	95
4			Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	93
5			Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	91



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Data File : BF095443.D
Acq On : 26 May 2017 1:45
Operator : SJ/MA
Sample : I3200-05 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

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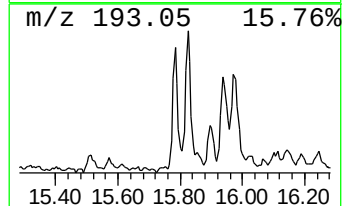
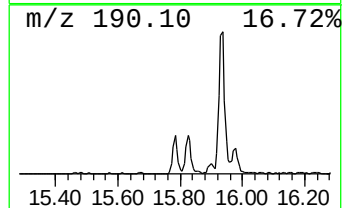
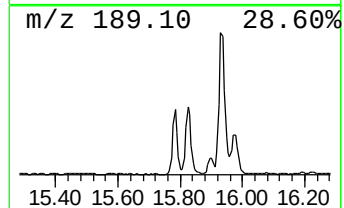
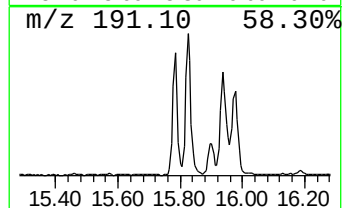
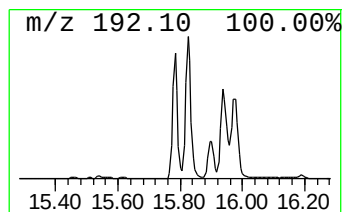
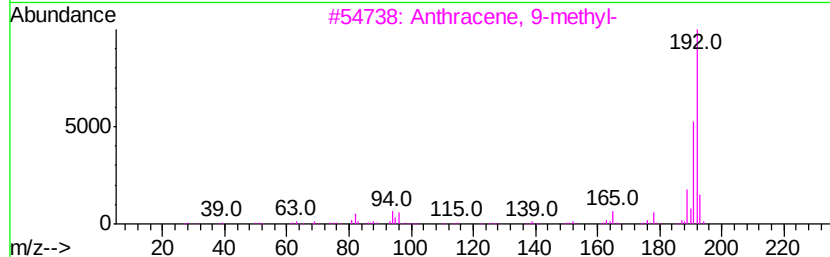
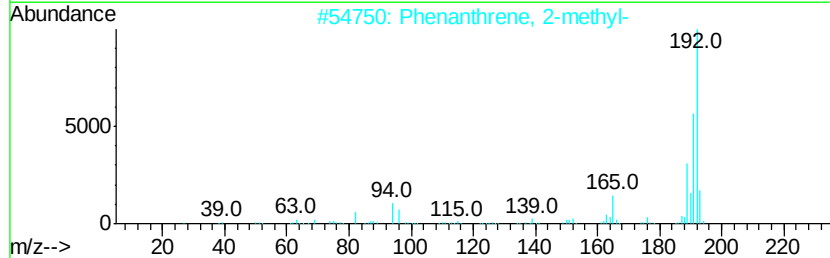
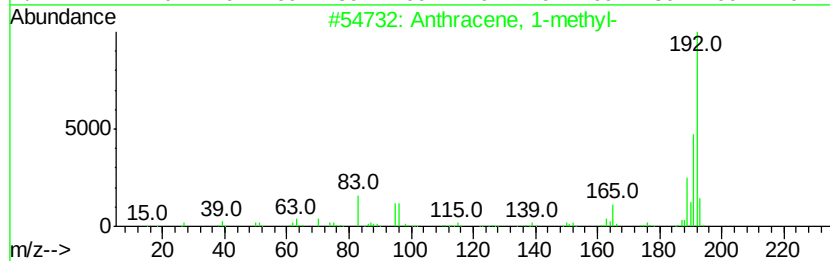
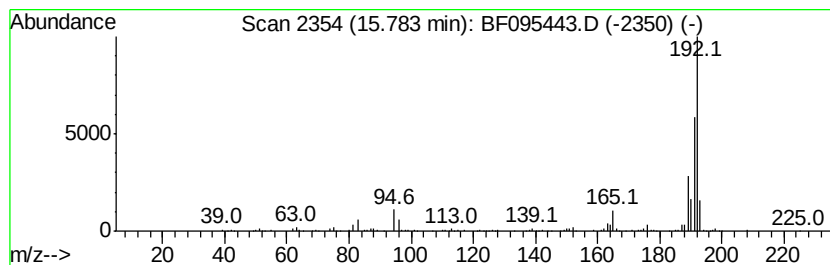
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Anthracene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.78	10.76 ng	336123	Phenanthrene-d10	15.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
2		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3		Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
4		Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
5		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	89



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052517\
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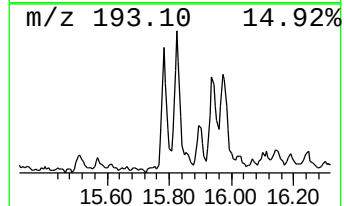
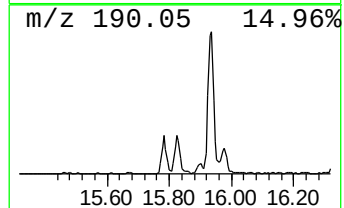
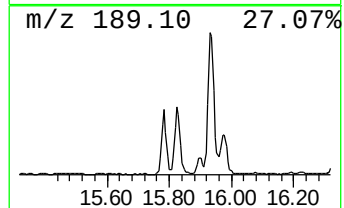
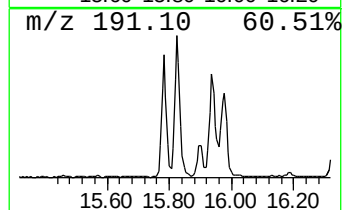
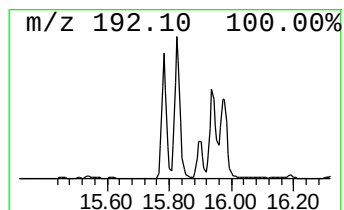
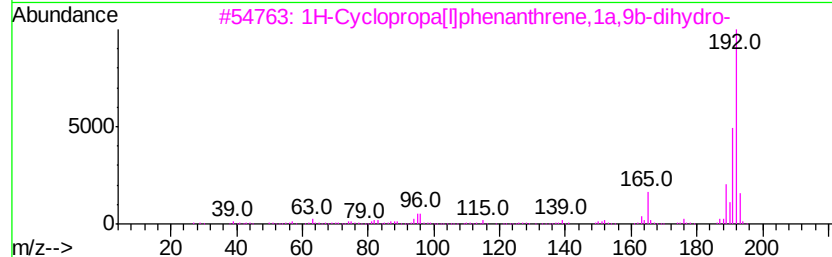
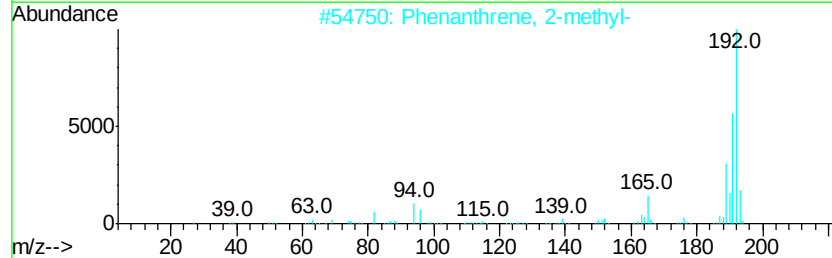
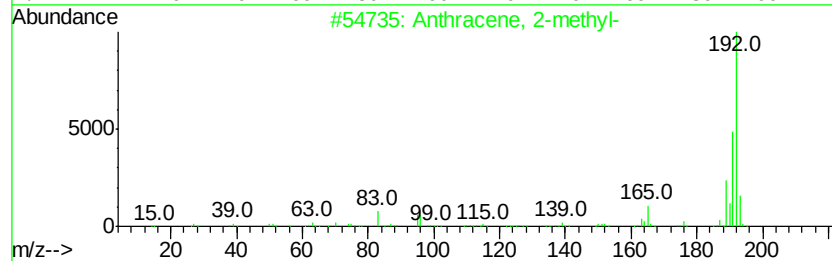
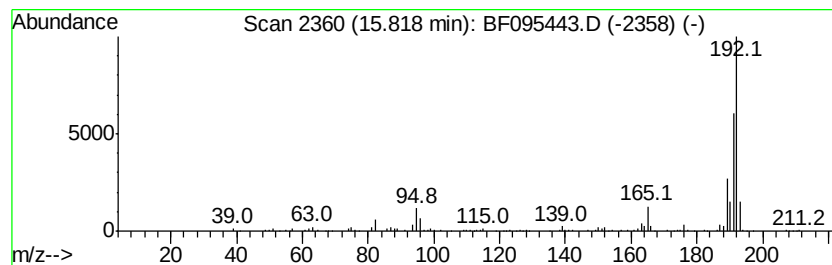
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Anthracene, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.82	13.38 ng	417805	Phenanthrene-d10	15.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	94
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052517\
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Sample : I3200-05 5X
Misc :
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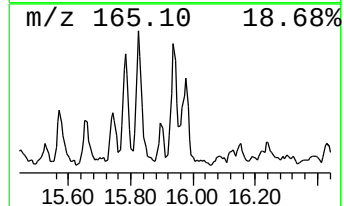
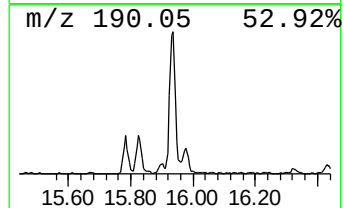
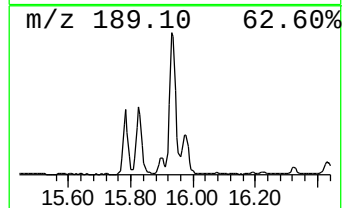
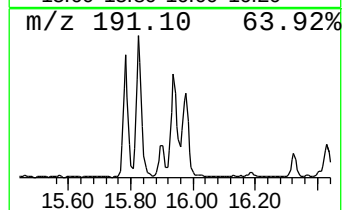
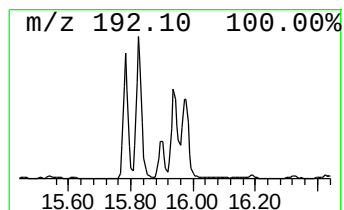
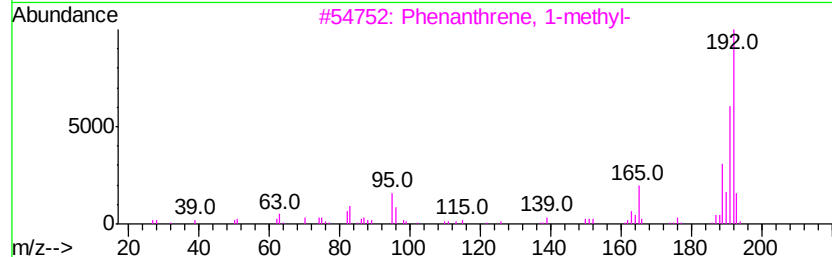
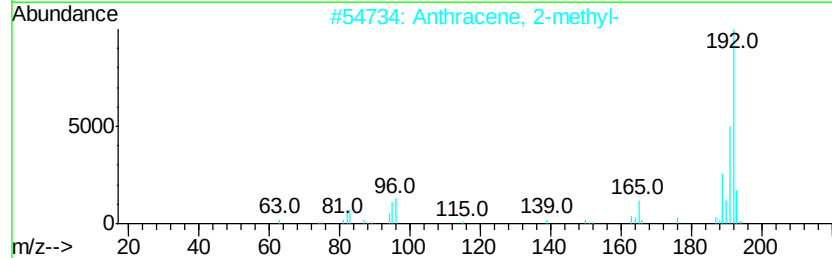
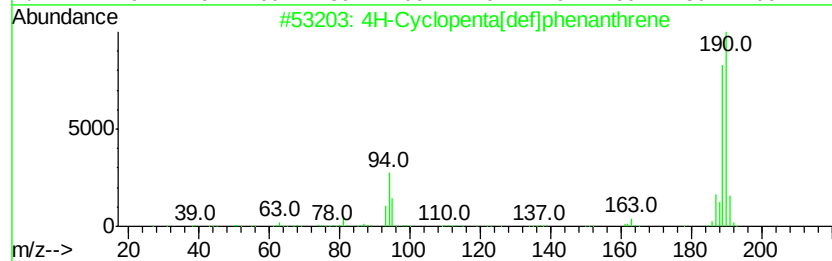
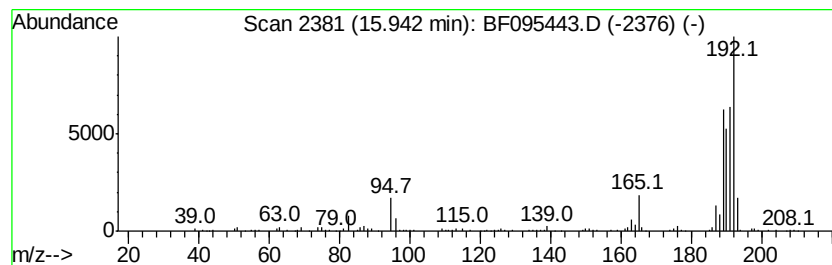
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD		R.T.	
15.94	16.12 ng	503327	Phenanthrene-d10		15.00	
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	55
2		Anthracene, 2-methyl-	192	C15H12	000613-12-7	42
3		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	42
4		Anthracene, 1-methyl-	192	C15H12	000610-48-0	42
5		Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	42



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\
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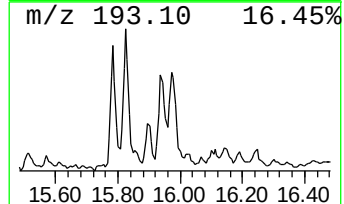
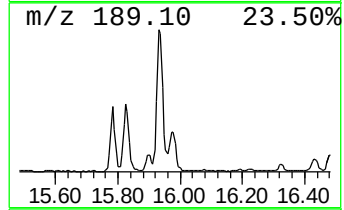
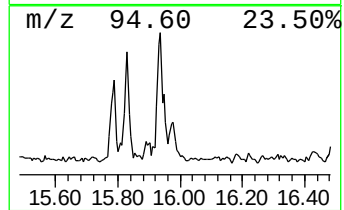
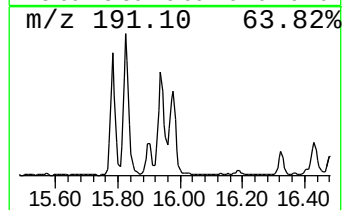
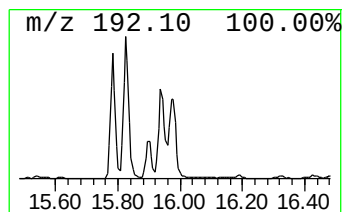
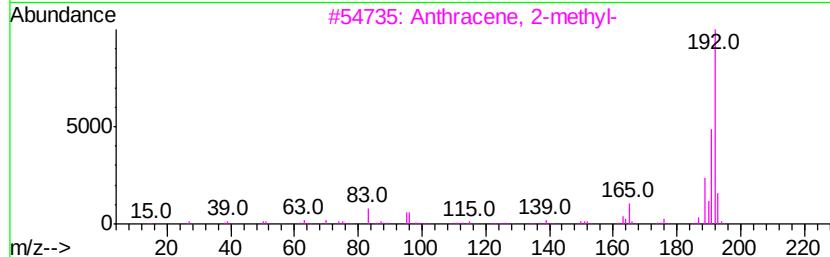
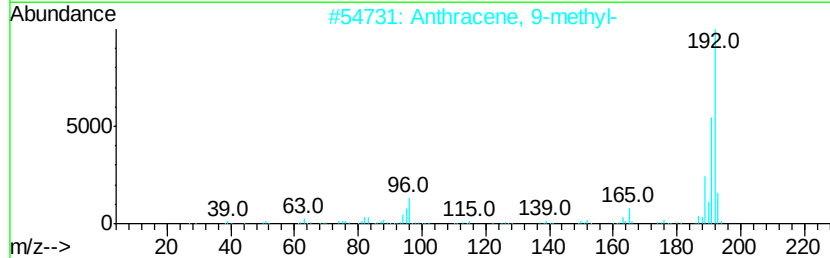
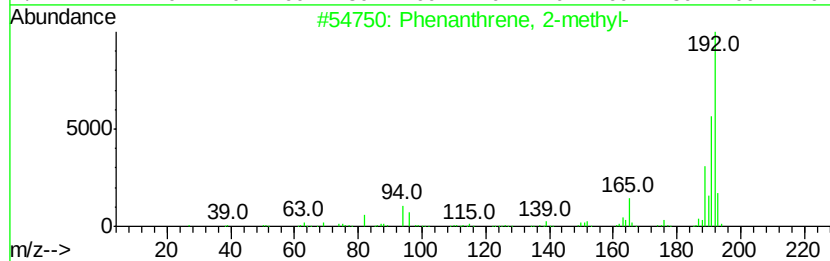
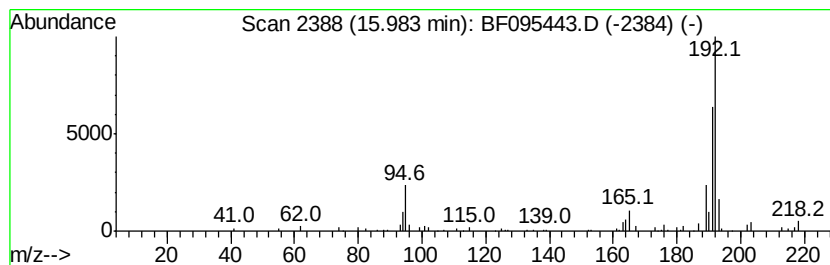
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Phenanthrene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD		R.T.
15.98	8.72 ng	272305	Phenanthrene-d10		15.00
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\
Data File : BF095443.D
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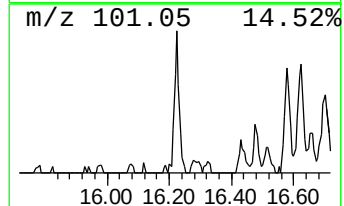
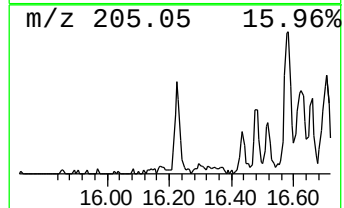
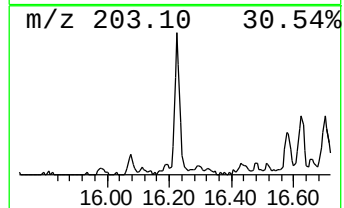
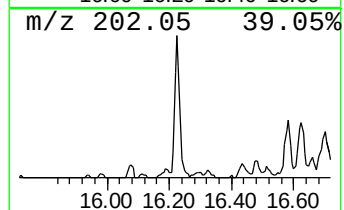
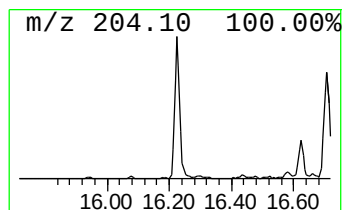
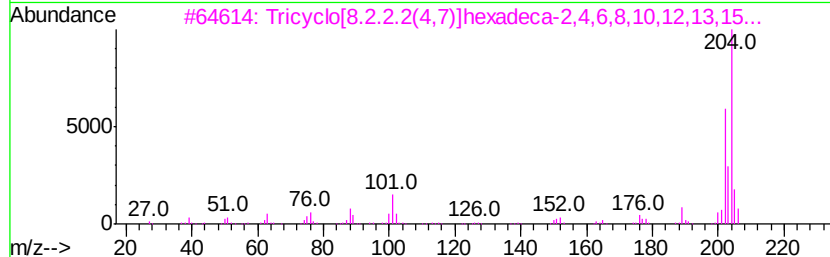
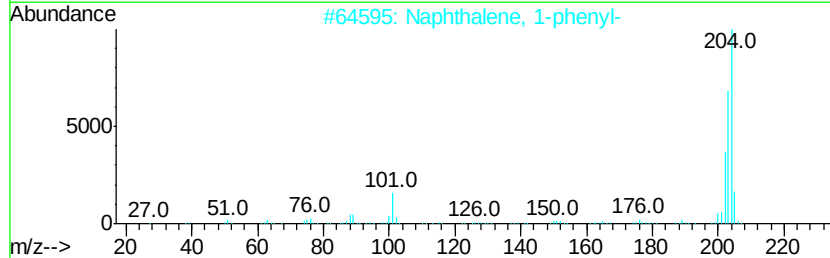
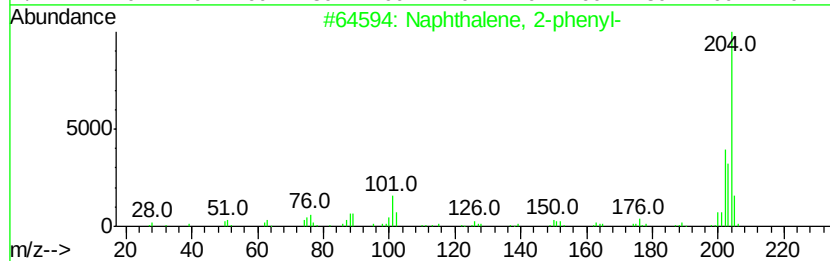
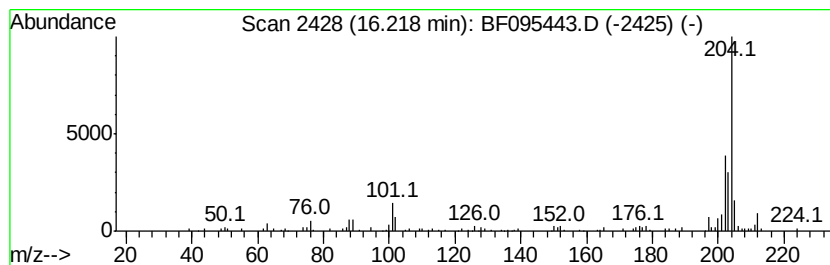
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 Naphthalene, 2-phenyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.22	7.08 ng	221199	Phenanthrene-d10	15.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	97
2		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	93
3		Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	74
4		5,16[1',2'1:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	64
5		9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	62



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\
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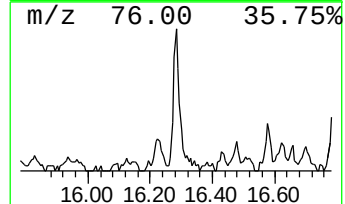
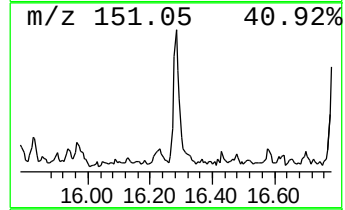
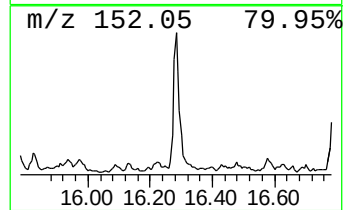
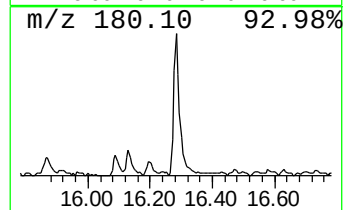
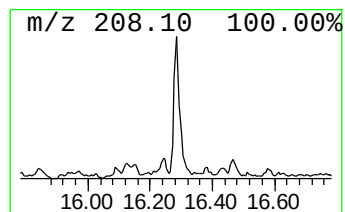
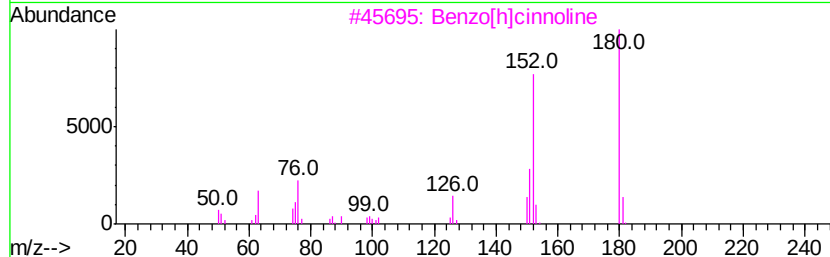
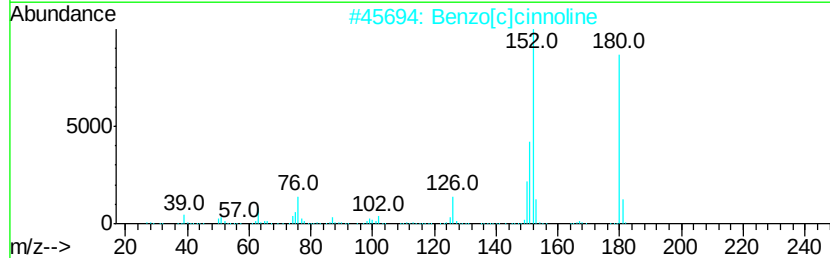
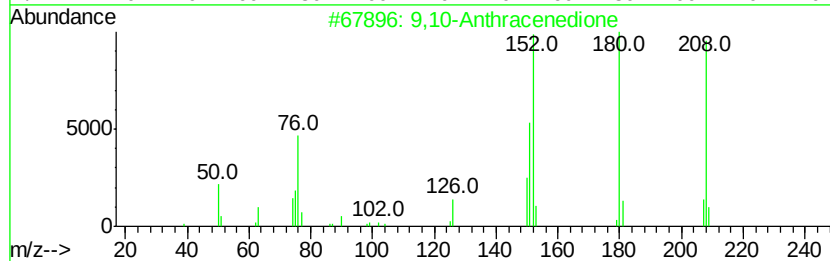
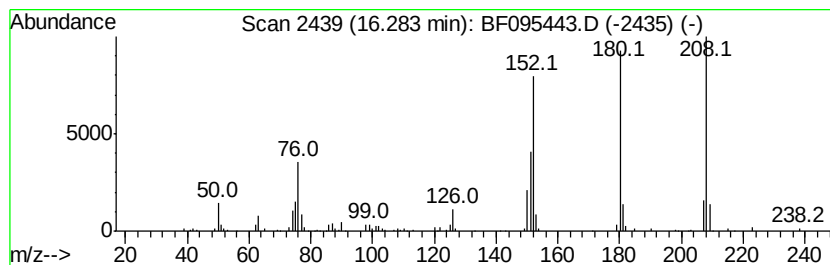
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 9,10-Anthracenedione Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.28	6.36 ng	198499	Phenanthrene-d10	15.00

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2			Benzo[c]cinnoline	180	C12H8N2	000230-17-1	86
3			Benzo[h]cinnoline	180	C12H8N2	000230-31-9	60
4			9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	58
5			1,4-Anthracenedione	208	C14H8O2	000635-12-1	49



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\
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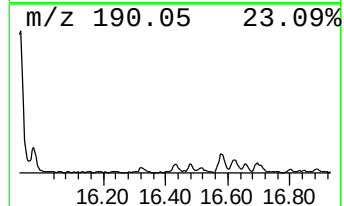
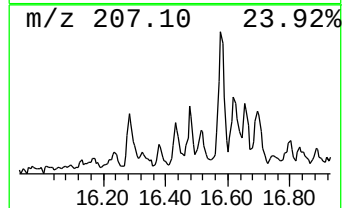
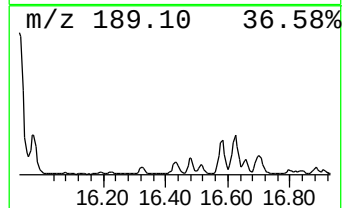
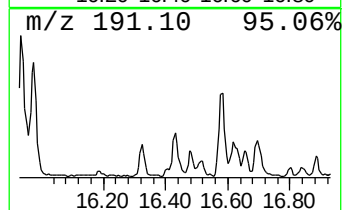
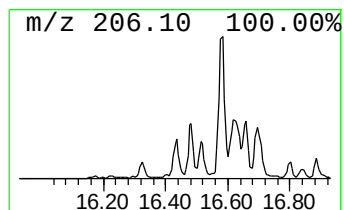
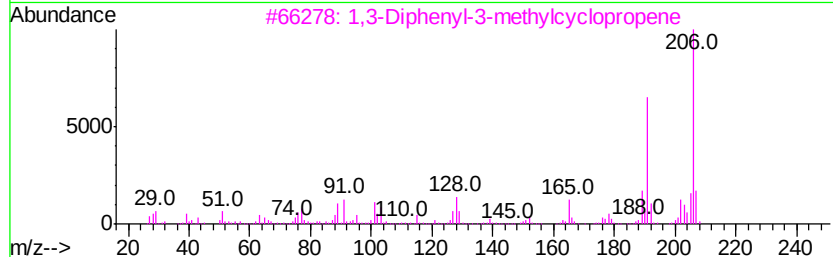
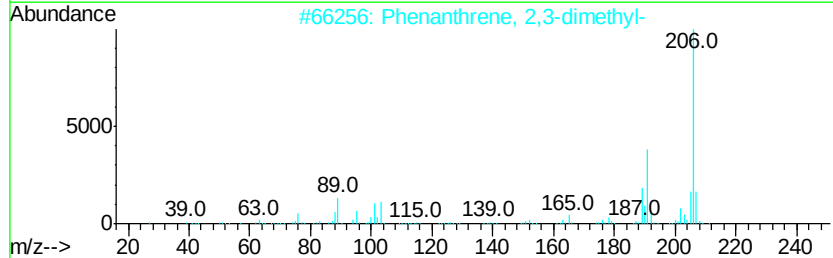
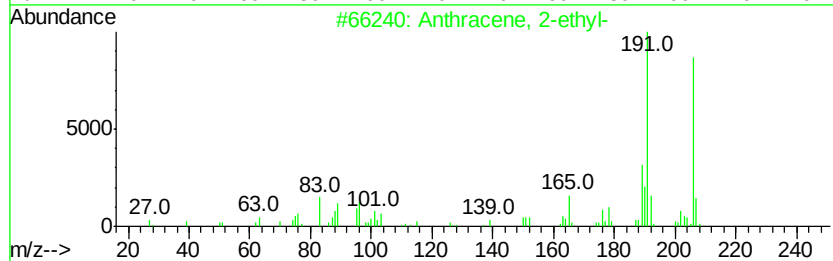
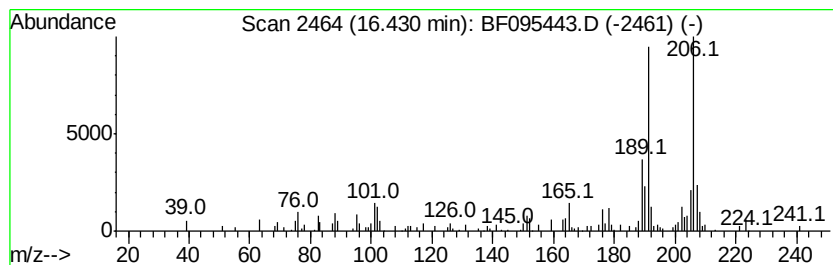
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Anthracene, 2-ethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.		
16.43	3.50 ng	109448	Phenanthrene-d10	15.00		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Anthracene, 2-ethyl-	206	C16H14	052251-71-5	93
2		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
3		1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	90
4		Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	89
5		Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	87



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052517\
Data File : BF095443.D
Acq On : 26 May 2017 1:45
Operator : SJ/MA
Sample : I3200-05 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

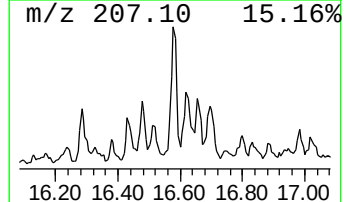
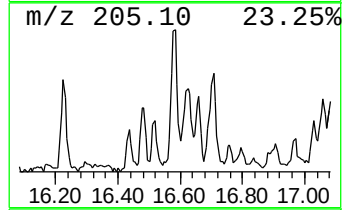
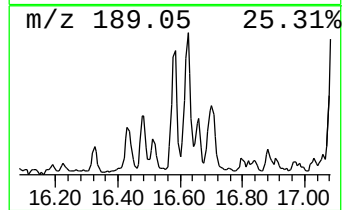
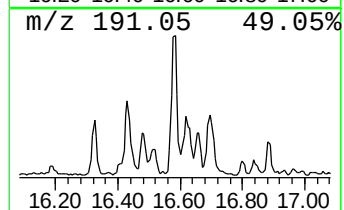
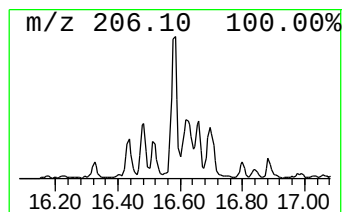
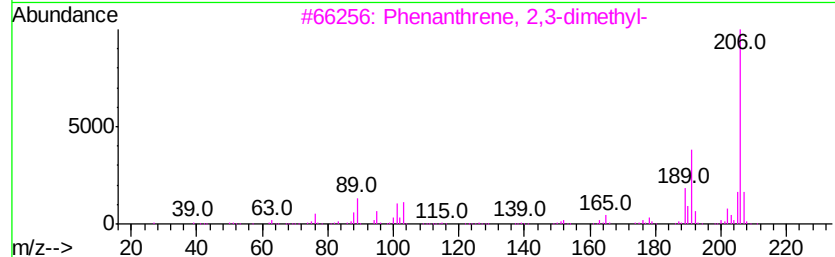
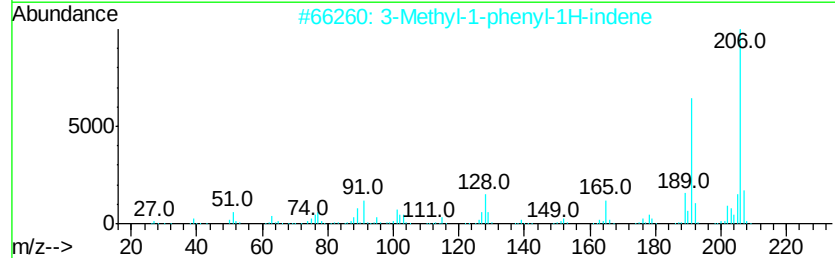
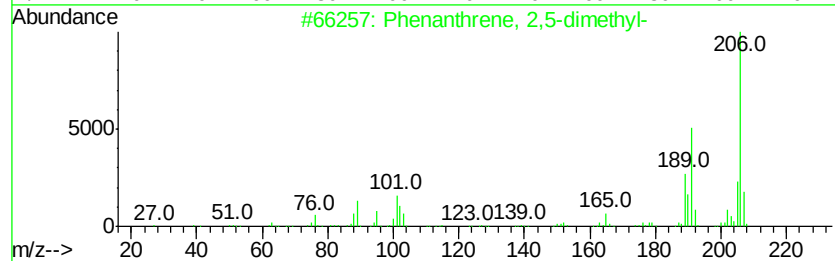
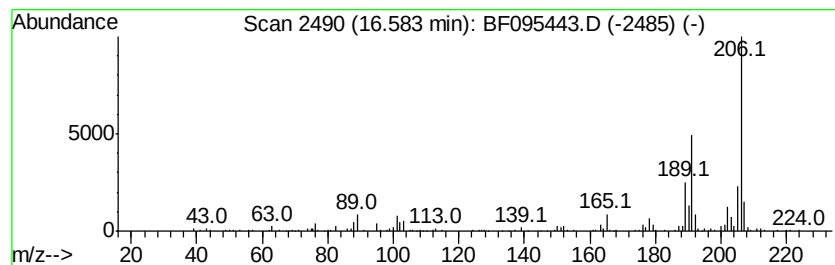
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ClientSampleId :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD		R.T.
16.58	9.79 ng	305680	Phenanthrene-d10		15.00
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	97
2	3-Methyl-1-phenyl-1H-indene	206	C16H14	022360-63-0	93
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
4	9,10-Dimethylantracene	206	C16H14	000781-43-1	91
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052517\
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ClientSampleId :
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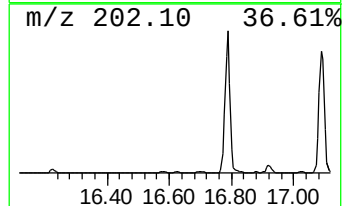
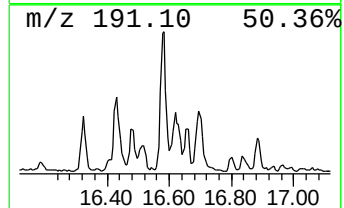
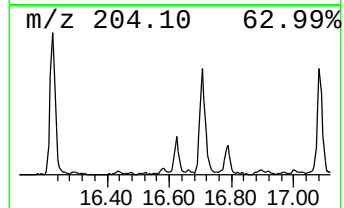
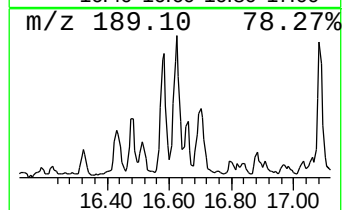
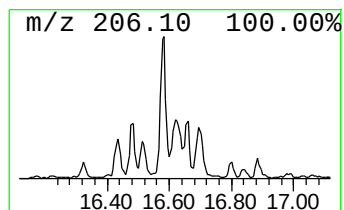
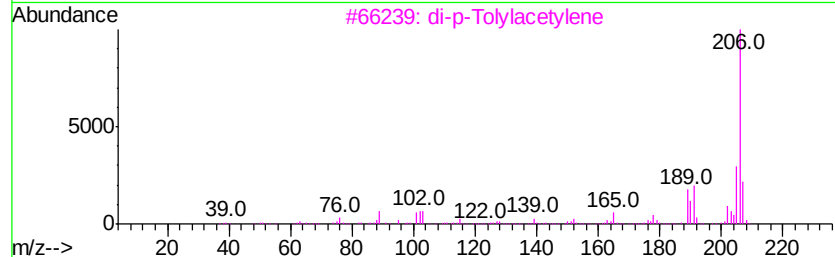
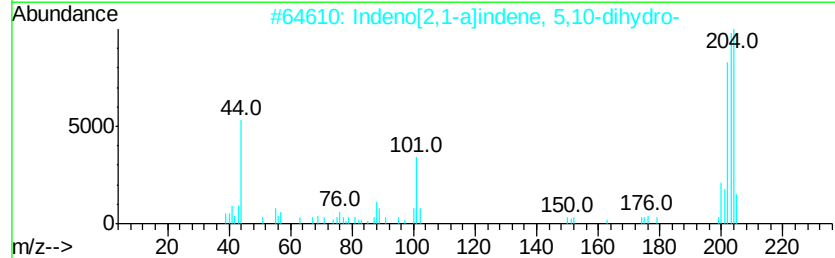
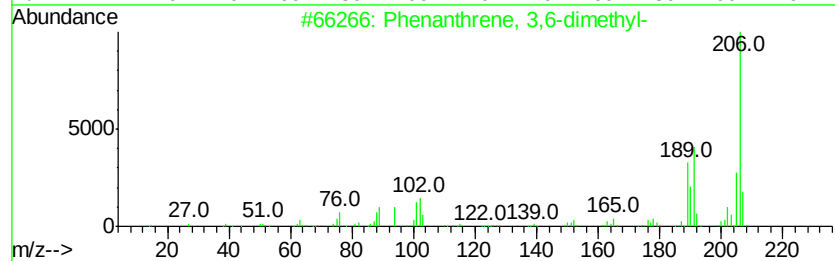
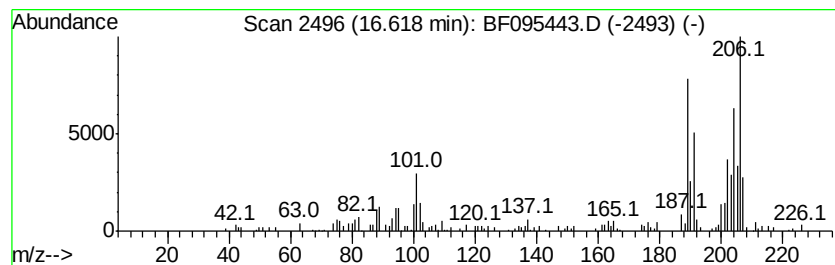
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Phenanthrene, 3,6-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.62	5.75 ng	179716	Phenanthrene-d10	15.00

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	62
2			Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	45
3			di-p-Tolylacetylene	206	C16H14	002789-88-0	42
4			5H-Dibenzof[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	38
5			Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	38



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052517\
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Operator : SJ/MA
Sample : I3200-05 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

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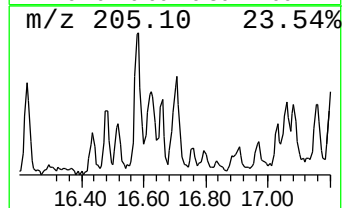
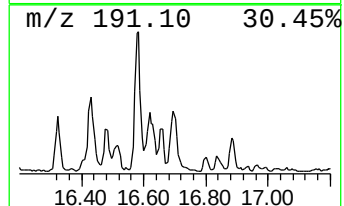
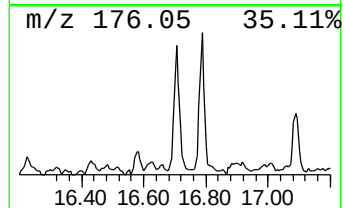
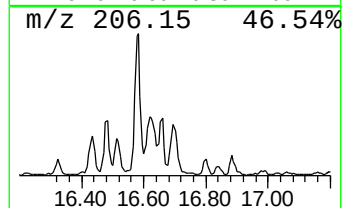
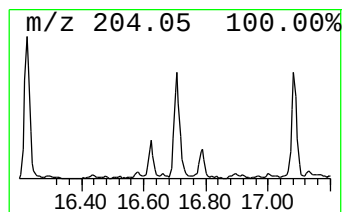
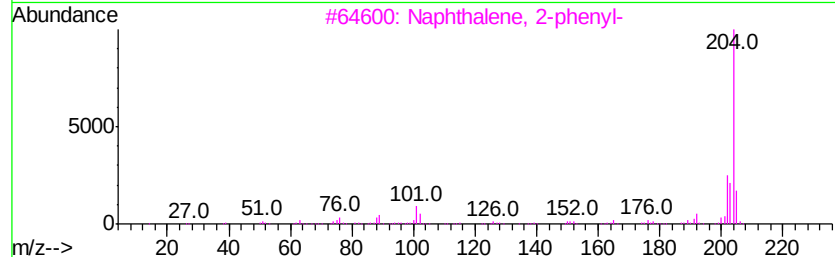
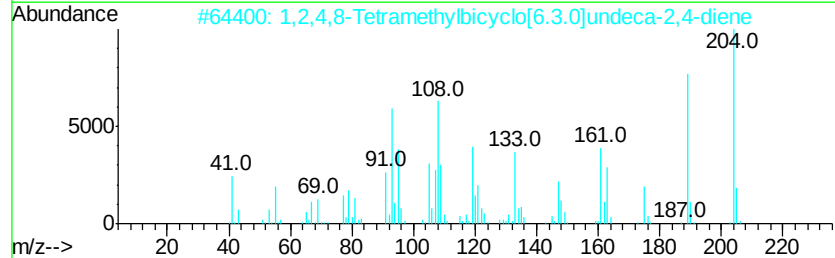
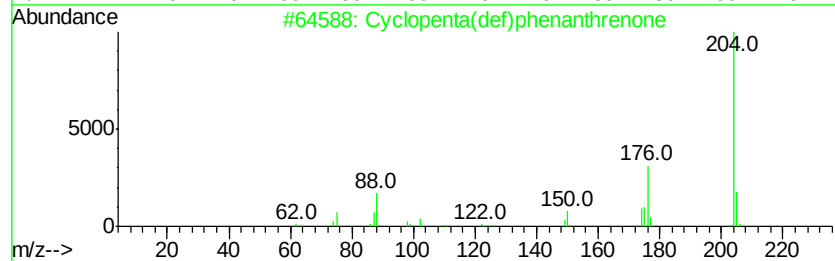
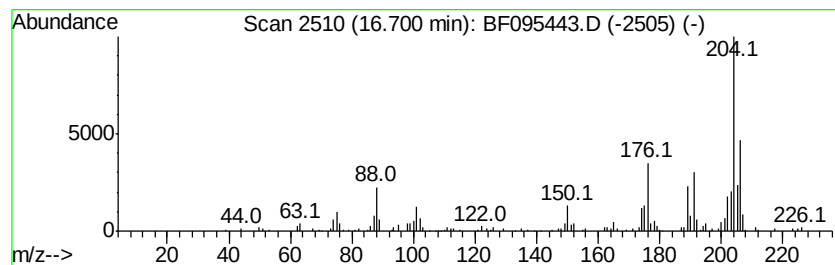
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.70	8.23 ng	257008	Phenanthrene-d10	15.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	86
2		1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene	204	C15H24	137235-51-9	46
3		Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	45
4		[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	43
5		3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	43



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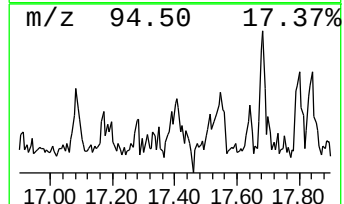
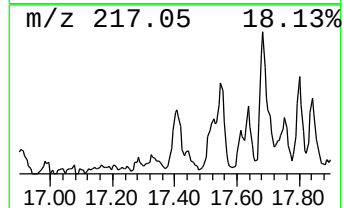
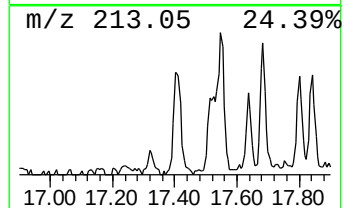
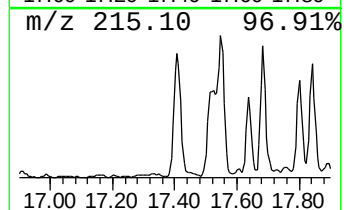
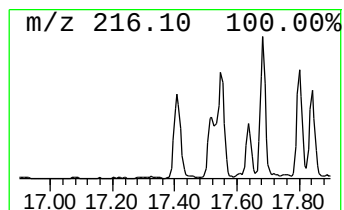
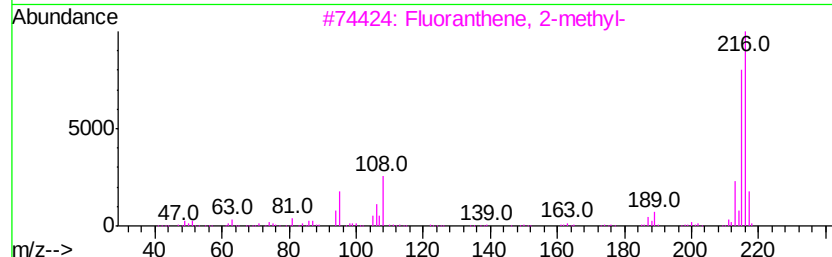
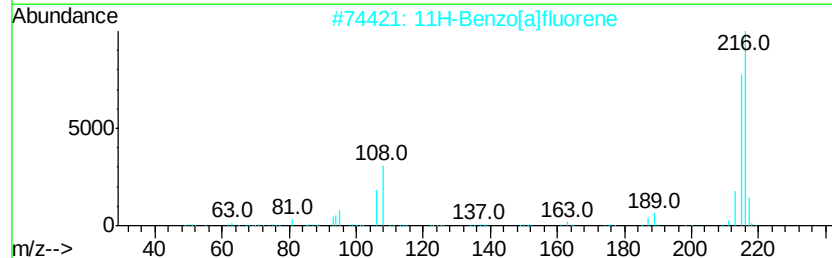
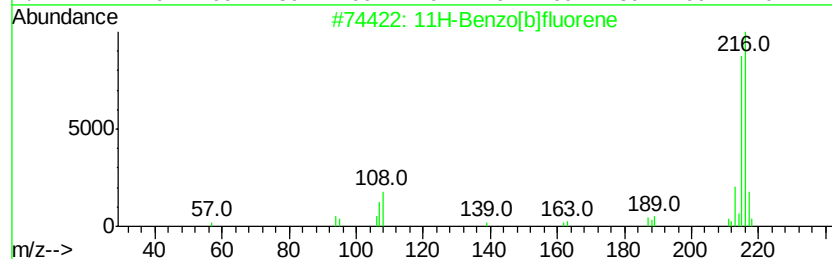
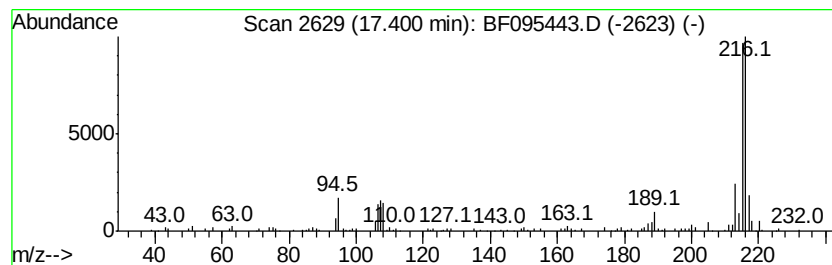
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 11H-Benzo[b]fluorene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.40	3.51 ng	257015	Chrysene-d12	18.68
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		11H-Benzo[b]fluorene	216 C17H12	000243-17-4 89
2		11H-Benzo[a]fluorene	216 C17H12	000238-84-6 87
3		Fluoranthene, 2-methyl-	216 C17H12	033543-31-6 81
4		Pyrene, 1-methyl-	216 C17H12	002381-21-7 81
5		Pyrene, 2-methyl-	216 C17H12	003442-78-2 60



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\
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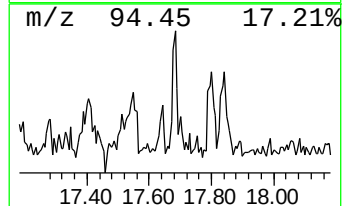
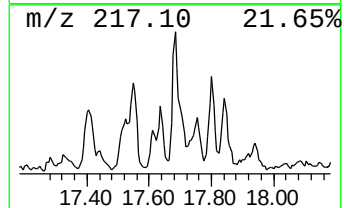
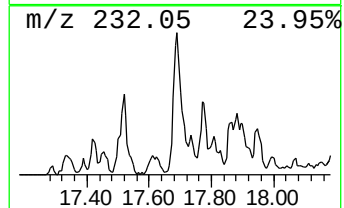
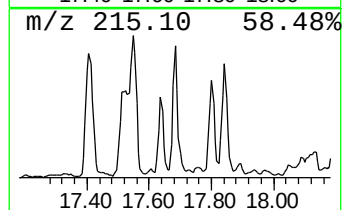
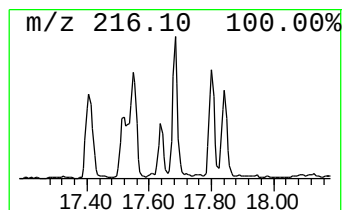
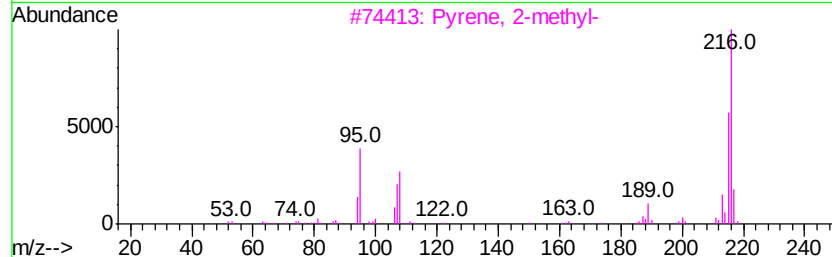
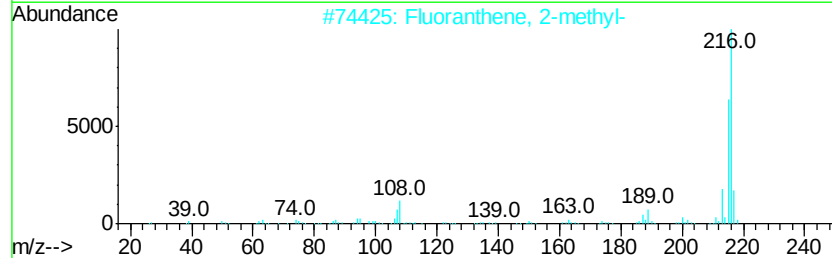
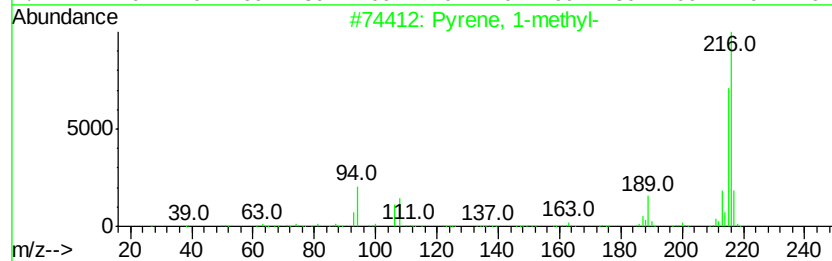
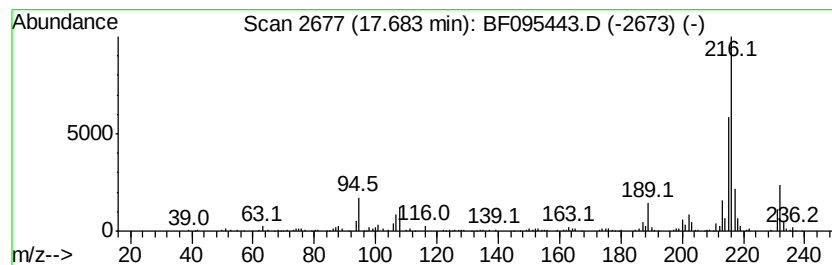
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Pyrene, 1-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.68	5.40 ng	395134	Chrysene-d12	18.68

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
2		Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
3		Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
4		Pyrene, 4-methyl-	216	C17H12	003353-12-6	92
5		11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\
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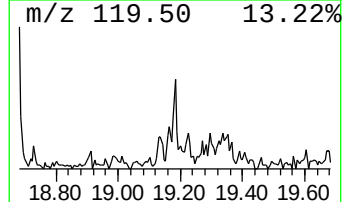
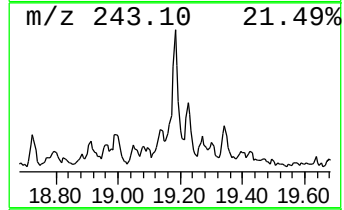
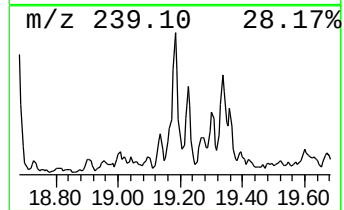
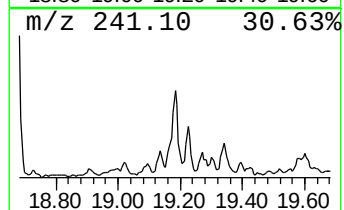
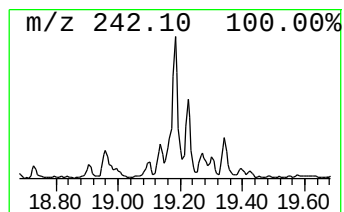
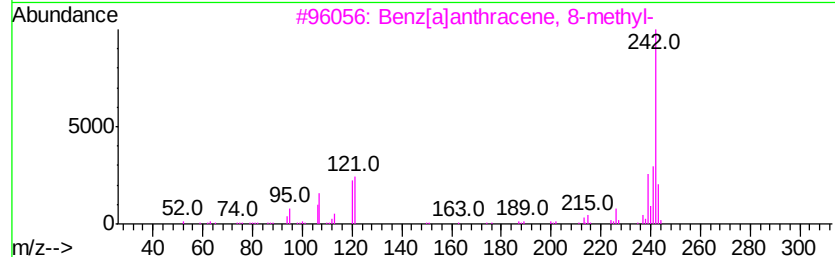
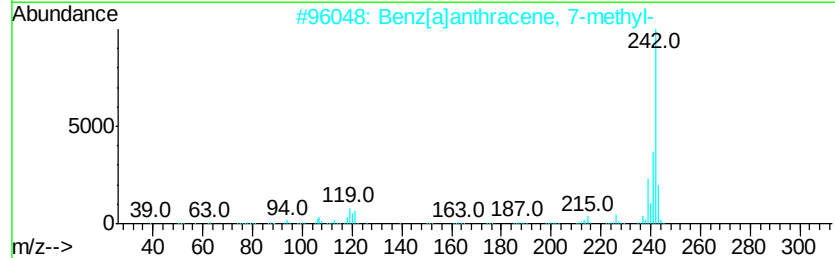
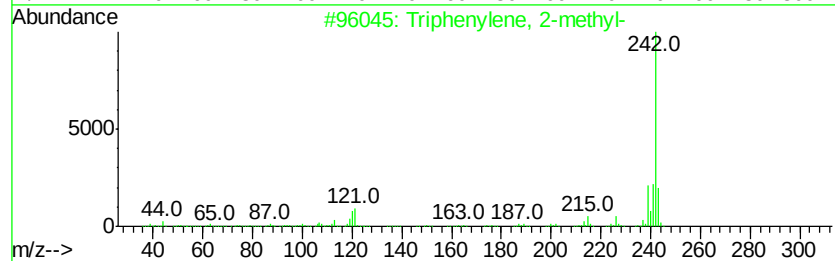
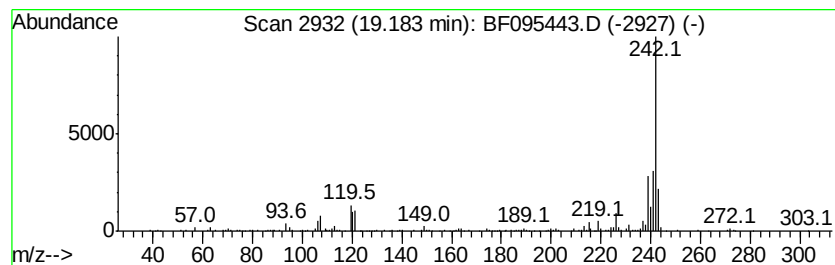
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 Triphenylene, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.18	3.20 ng	233993	Chrysene-d12	18.68

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	96
2		Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	96
3		Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	96
4		Chrysene, 3-methyl-	242	C19H14	003351-31-3	94
5		Chrysene, 5-methyl-	242	C19H14	003697-24-3	91



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052517\
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ALS Vial : 21 Sample Multiplier: 1

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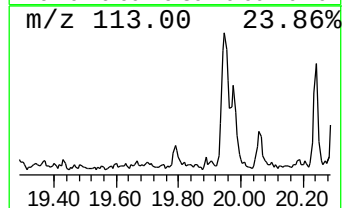
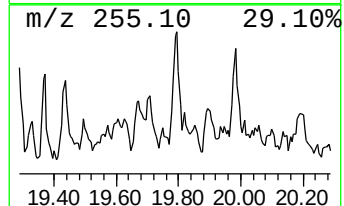
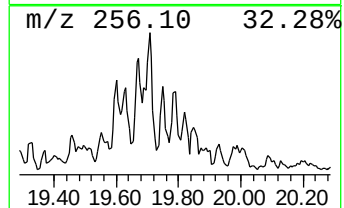
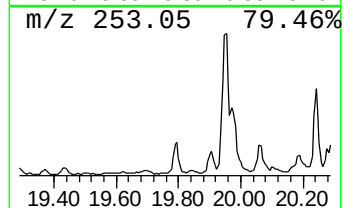
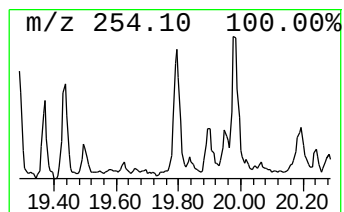
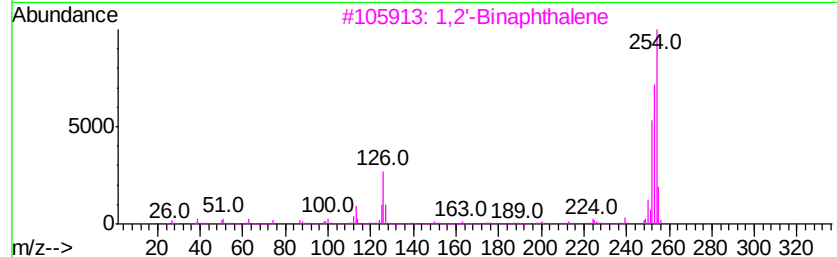
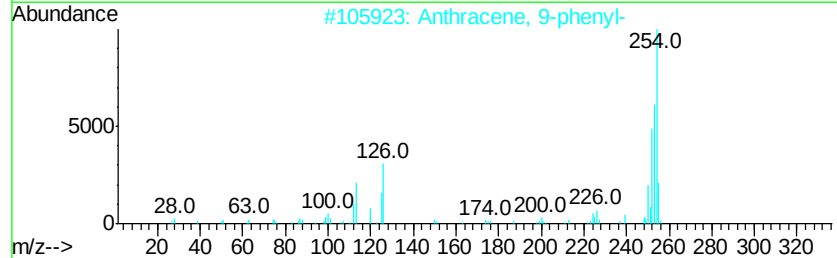
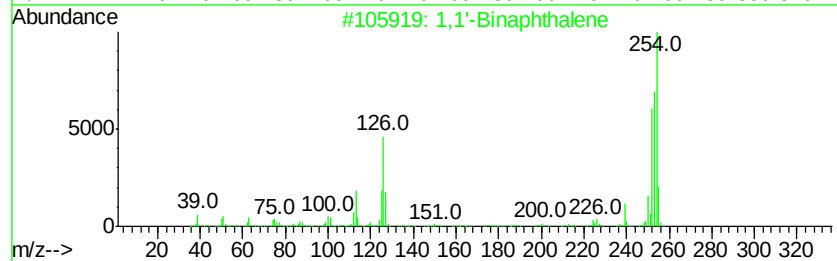
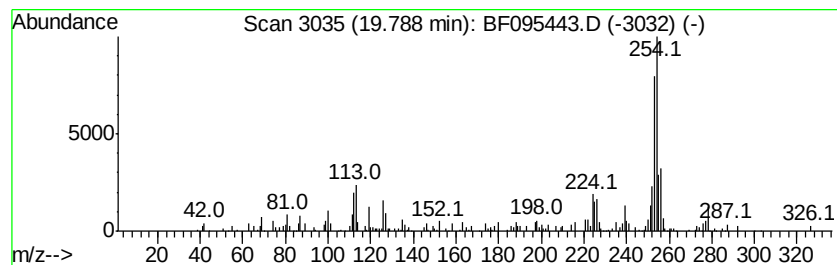
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 1,1'-Binaphthalene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.79	5.49 ng	98196	Perylene-d12	20.36

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	1,1'-Binaphthalene	254	C20H14	000604-53-5	89
2		Anthracene, 9-phenyl-	254	C20H14	000602-55-1	76
3		1,2'-Binaphthalene	254	C20H14	004325-74-0	58
4		9,10[1',2'-l-Benzoanthracene, 9...	254	C20H14	000477-75-8	52
5		9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	50



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052517\
Data File : BF095443.D
Acq On : 26 May 2017 1:45
Operator : SJ/MA
Sample : I3200-05 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
POST-EX-37-20170517

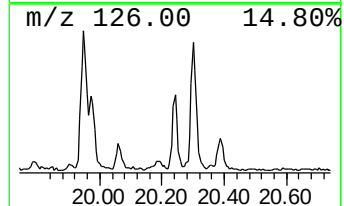
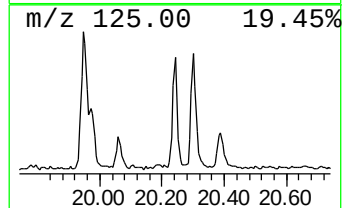
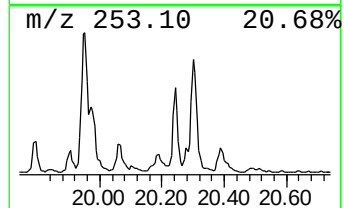
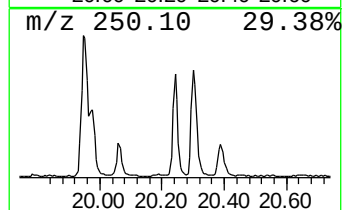
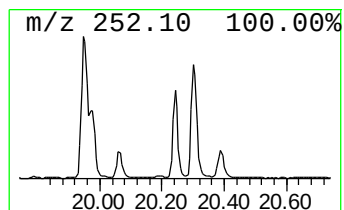
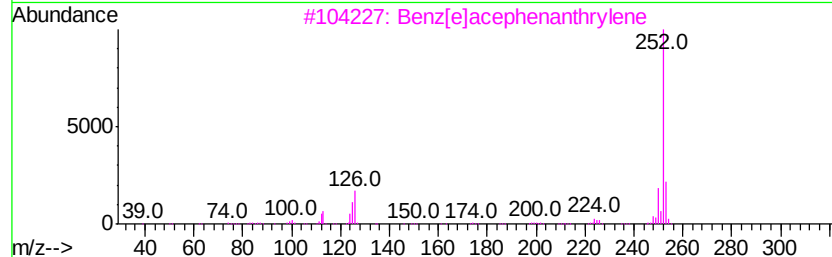
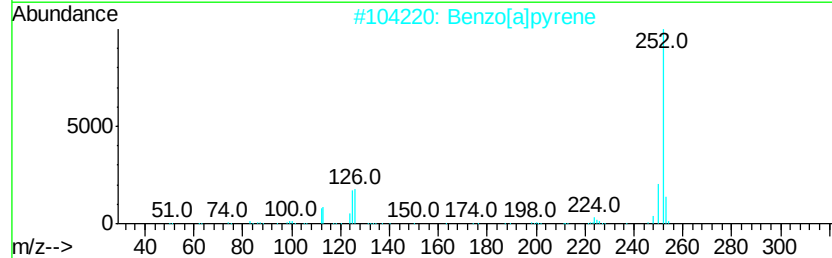
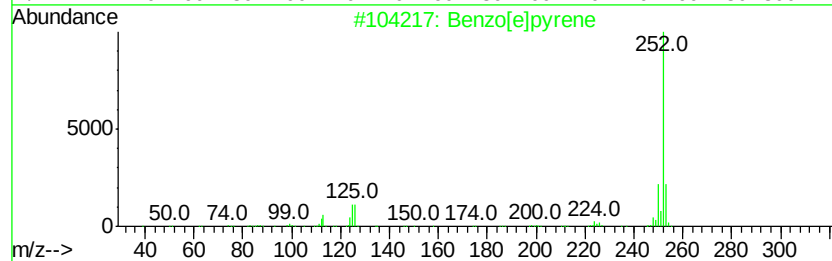
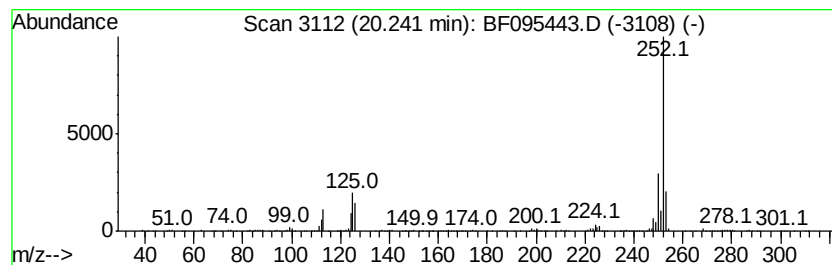
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.24	20.01 ng	358264	Perylene-d12	20.36

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	96
2		Benzo[a]pyrene	252	C20H12	000050-32-8	94
3		Benz[e]acephenanthrylene	252	C20H12	000205-99-2	93
4		Perylene	252	C20H12	000198-55-0	90
5		Benzo[j]fluoranthene	252	C20H12	000205-82-3	89



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052517\
 Data File : BF095443.D
 Acq On : 26 May 2017 1:45
 Operator : SJ/MA
 Sample : I3200-05 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 POST-EX-37-20170517

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
unknown7.43	7.43	17.4	ng	447114	1	7.75	515329	20.0
9H-Fluoren-9-one	14.73	4.3	ng	134682	4	15.00	624569	20.0
Dibenzothiophene	14.84	3.6	ng	111061	4	15.00	624569	20.0
Anthracene, 1-met...	15.78	10.8	ng	336123	4	15.00	624569	20.0
Anthracene, 2-met...	15.82	13.4	ng	417805	4	15.00	624569	20.0
4H-Cyclopenta[def...	15.94	16.1	ng	503327	4	15.00	624569	20.0
Phenanthrene, 2-m...	15.98	8.7	ng	272305	4	15.00	624569	20.0
Naphthalene, 2-ph...	16.22	7.1	ng	221199	4	15.00	624569	20.0
9,10-Anthracenedione	16.28	6.4	ng	198499	4	15.00	624569	20.0
Anthracene, 2-ethyl-	16.43	3.5	ng	109448	4	15.00	624569	20.0
Phenanthrene, 2,5...	16.58	9.8	ng	305680	4	15.00	624569	20.0
Phenanthrene, 3,6...	16.62	5.8	ng	179716	4	15.00	624569	20.0
Cyclopenta(def)ph...	16.70	8.2	ng	257008	4	15.00	624569	20.0
11H-Benzo[b]fluorene	17.40	3.5	ng	257015	5	18.68	1463900	20.0
Pyrene, 1-methyl-	17.68	5.4	ng	395134	5	18.68	1463900	20.0
Triphenylene, 2-m...	19.18	3.2	ng	233993	5	18.68	1463900	20.0
1,1'-Binaphthalene	19.79	5.5	ng	98196	6	20.36	358006	20.0
Benzo[e]pyrene	20.24	20.0	ng	358264	6	20.36	358006	20.0