

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052617\
 Data File : BF095459.D
 Acq On : 26 May 2017 14:14
 Operator : SJ/MA
 Sample : I3240-01
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EP2-WC8(0-8)

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	5.090	531	536	555	rBV	195227	580422	5.55%	0.485%
2	5.707	637	641	671	rBV	951235	2224087	21.26%	1.857%
3	7.289	906	910	926	rBV	1154130	2119999	20.26%	1.770%
4	7.407	926	930	939	rVV	1516376	2473551	23.64%	2.065%
5	7.742	983	987	996	rBV	434335	527693	5.04%	0.441%
6	7.978	1022	1027	1031	rBV	1443554	1792932	17.14%	1.497%
7	8.013	1031	1033	1041	rVB	221147	241457	2.31%	0.202%
8	8.642	1136	1140	1157	rVB	905904	1390141	13.29%	1.161%
9	9.354	1256	1261	1273	rBV2	147071	282856	2.70%	0.236%
10	9.760	1323	1330	1332	rBV	597321	783954	7.49%	0.655%
11	9.807	1332	1338	1341	rVV	4277581	6520199	62.32%	5.444%
12	9.877	1345	1350	1357	rVB	172079	282724	2.70%	0.236%
13	10.919	1522	1527	1538	rBV	2382957	3102907	29.66%	2.591%
14	11.072	1546	1553	1560	rBV	1793871	2254353	21.55%	1.882%
15	11.530	1626	1631	1648	rVB	2095240	2560990	24.48%	2.138%
16	11.683	1648	1657	1662	rBV	796560	975928	9.33%	0.815%
17	11.824	1677	1681	1690	rVB	447105	659182	6.30%	0.550%
18	11.936	1692	1700	1701	rBV	558036	652265	6.23%	0.545%
19	12.060	1715	1721	1725	rBV	860736	1320925	12.63%	1.103%
20	12.101	1725	1728	1742	rVB	680161	887435	8.48%	0.741%
21	12.248	1751	1753	1761	rVB2	402486	687610	6.57%	0.574%
22	12.371	1766	1774	1783	rBV2	264690	412853	3.95%	0.345%
23	12.595	1807	1812	1816	rBV3	683523	1297001	12.40%	1.083%
24	12.648	1816	1821	1826	rVV	2033314	2498514	23.88%	2.086%
25	12.789	1841	1845	1852	rVB	185862	370210	3.54%	0.309%
26	12.854	1852	1856	1863	rVB2	252294	333030	3.18%	0.278%
27	12.936	1863	1870	1878	rBV	2125981	2904192	27.76%	2.425%
28	13.018	1878	1884	1889	rVV	260467	349147	3.34%	0.291%
29	13.136	1899	1904	1908	rBV	194194	274706	2.63%	0.229%
30	13.183	1908	1912	1917	rVB	234640	270810	2.59%	0.226%
31	13.283	1920	1929	1931	rBV	186517	308131	2.95%	0.257%
32	13.424	1948	1953	1956	rBV3	185798	237777	2.27%	0.199%
33	13.489	1956	1964	1972	rVV	1229906	1642079	15.70%	1.371%
34	13.577	1972	1979	1981	rVV5	163837	335235	3.20%	0.280%

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

35	13.624	1984	1987	1991	rVV	314609	395820	3.78%	0.330%
36	13.701	1997	2000	2003	rVV	231601	282620	2.70%	0.236%
37	13.760	2005	2010	2020	rVB	626434	911298	8.71%	0.761%
38	13.895	2025	2033	2040	rVV2	1255028	2327725	22.25%	1.943%
39	13.960	2040	2044	2049	rVB2	208051	295127	2.82%	0.246%
40	14.389	2110	2117	2122	rBV2	288661	541201	5.17%	0.452%
41	14.613	2151	2155	2159	rBV4	262312	442317	4.23%	0.369%
42	14.724	2169	2174	2179	rVV	1325313	1739397	16.63%	1.452%
43	14.783	2179	2184	2188	rVV3	329332	639912	6.12%	0.534%
44	14.830	2188	2192	2197	rVB	729528	902659	8.63%	0.754%
45	15.001	2216	2221	2223	rBV	352392	526411	5.03%	0.439%
46	15.065	2223	2232	2235	rVV	4681427	10462418	100.00%	8.735%
47	15.118	2235	2241	2245	rVB2	383339	666507	6.37%	0.556%
48	15.407	2286	2290	2293	rBV	549213	641701	6.13%	0.536%
49	15.560	2313	2316	2320	rBV2	185868	250427	2.39%	0.209%
50	15.777	2349	2353	2357	rVV	1016675	1173206	11.21%	0.979%
51	15.824	2357	2361	2364	rVV	1265516	1425881	13.63%	1.190%
52	15.930	2375	2379	2382	rBV2	921734	1101359	10.53%	0.920%
53	15.971	2382	2386	2398	rVB	633807	938745	8.97%	0.784%
54	16.218	2424	2428	2434	rVV	681472	806992	7.71%	0.674%
55	16.277	2434	2438	2443	rVV	944940	1140591	10.90%	0.952%
56	16.424	2459	2463	2468	rBV2	201569	285121	2.73%	0.238%
57	16.577	2484	2489	2492	rBV	313193	419853	4.01%	0.351%
58	16.618	2492	2496	2500	rVV3	170282	236590	2.26%	0.198%
59	16.671	2500	2505	2507	rVV2	184272	333949	3.19%	0.279%
60	16.706	2507	2511	2518	rVB2	470737	768326	7.34%	0.641%
61	16.806	2519	2528	2535	rVB	4090631	7056199	67.44%	5.891%
62	16.877	2535	2540	2544	rBV3	170608	290140	2.77%	0.242%
63	16.977	2553	2557	2559	rBV	258235	283020	2.71%	0.236%
64	17.106	2571	2579	2582	rVB2	3748696	6724247	64.27%	5.614%
65	17.171	2585	2590	2593	rBV	258318	333765	3.19%	0.279%
66	17.265	2603	2606	2611	rBV	421469	529657	5.06%	0.442%
67	17.318	2611	2615	2622	rVB	1570157	1922167	18.37%	1.605%
68	17.406	2626	2630	2636	rVV	437836	693464	6.63%	0.579%
69	17.542	2643	2653	2658	rBV3	684058	1674266	16.00%	1.398%
70	17.630	2665	2668	2672	rVB	201515	234980	2.25%	0.196%
71	17.677	2672	2676	2683	rBV2	783667	1254107	11.99%	1.047%

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Integration Parameters: rteint.p
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 Sampling : 1 Min Area: 3 % of largest Peak
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72	17.795	2693	2696	2700	rVV	518743	568545	5.43%	0.475%
73	17.836	2700	2703	2707	rVV	506967	566701	5.42%	0.473%
74	18.059	2735	2741	2744	rBV3	136154	256411	2.45%	0.214%
75	18.230	2766	2770	2774	rVV	595216	681334	6.51%	0.569%
76	18.348	2786	2790	2792	rVV	405685	451331	4.31%	0.377%
77	18.377	2792	2795	2798	rVV2	690489	838630	8.02%	0.700%
78	18.412	2798	2801	2803	rVV	371244	411100	3.93%	0.343%
79	18.448	2804	2807	2811	rVB3	341579	446842	4.27%	0.373%
80	18.506	2813	2817	2822	rVV	529211	596161	5.70%	0.498%
81	18.671	2839	2845	2848	rBV2	1797079	2841946	27.16%	2.373%
82	18.718	2848	2853	2857	rVB2	2480728	3551165	33.94%	2.965%
83	18.953	2890	2893	2897	rVB	262571	281611	2.69%	0.235%
84	18.995	2897	2900	2906	rVB	294974	339591	3.25%	0.284%
85	19.177	2925	2931	2934	rBV	538661	686791	6.56%	0.573%
86	19.218	2935	2938	2942	rVB	334474	335558	3.21%	0.280%
87	19.259	2942	2945	2947	rBV2	279518	328696	3.14%	0.274%
88	19.330	2953	2957	2960	rBV3	223553	293105	2.80%	0.245%
89	19.606	3000	3004	3010	rVB4	128287	260419	2.49%	0.217%
90	19.789	3030	3035	3040	rBV2	301446	462310	4.42%	0.386%
91	19.959	3058	3064	3066	rBV	2049344	3502552	33.48%	2.924%
92	20.242	3107	3112	3116	rBV	1528470	1832965	17.52%	1.530%
93	20.306	3118	3123	3128	rVB	1699561	2069585	19.78%	1.728%
94	20.353	3128	3131	3134	rBV	353320	407336	3.89%	0.340%
95	20.383	3134	3136	3139	rBV	308019	301337	2.88%	0.252%
96	21.689	3351	3358	3364	rVB	683135	1234422	11.80%	1.031%
97	21.883	3387	3391	3398	rVB3	181110	358242	3.42%	0.299%
98	22.071	3417	3423	3431	rBV	528003	1038765	9.93%	0.867%
99	22.300	3457	3462	3468	rBV2	115681	260425	2.49%	0.217%
100	24.035	3751	3757	3770	rVB3	117764	365461	3.49%	0.305%

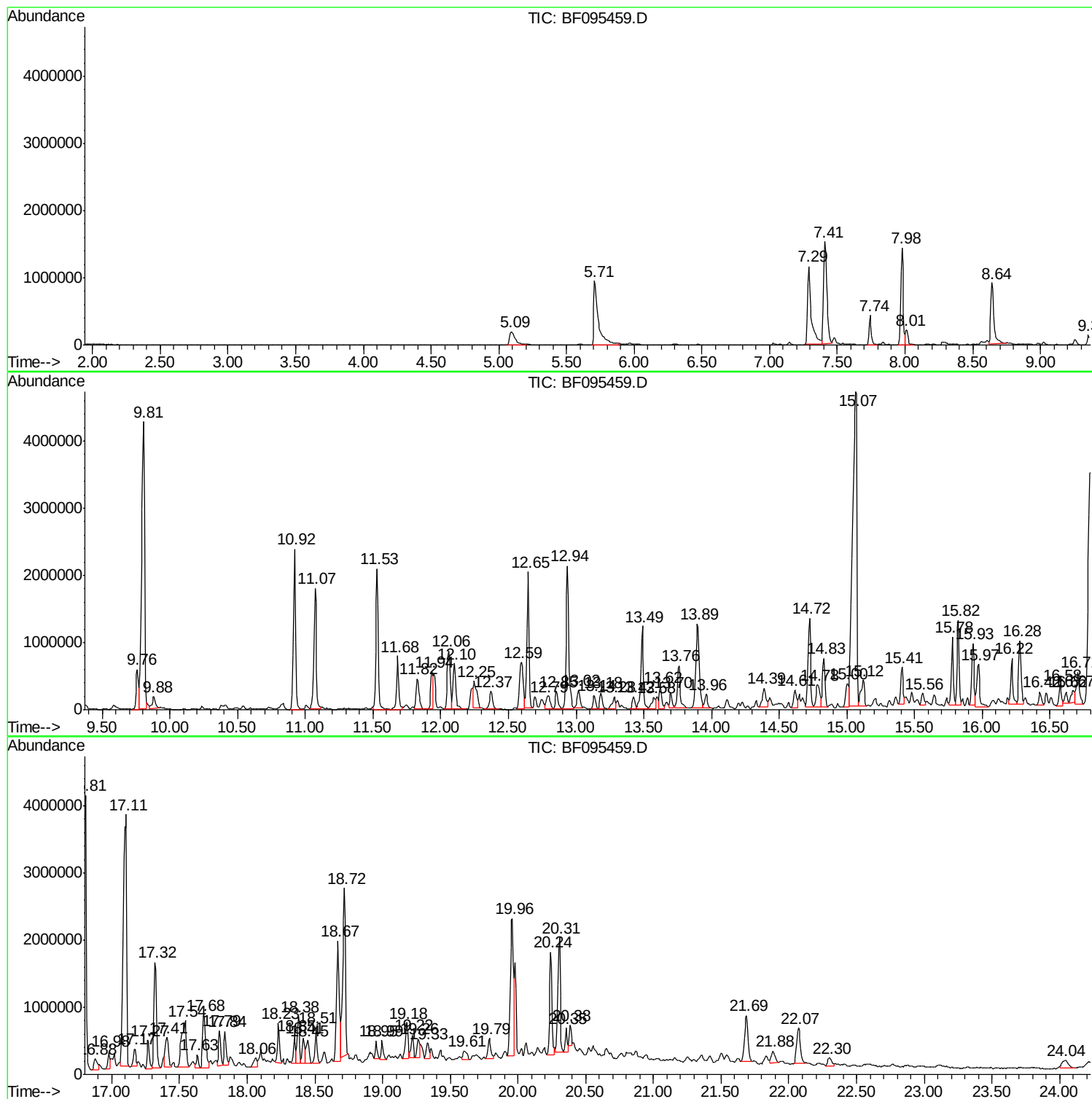
Sum of corrected areas: 119776797

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Instrument :
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ClientSampleId :
EP2-WC8(0-8)

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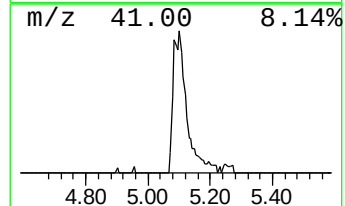
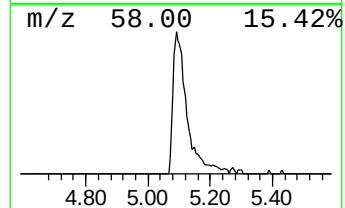
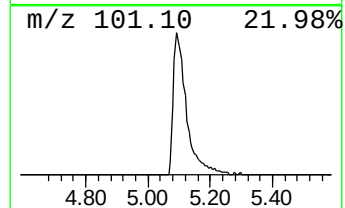
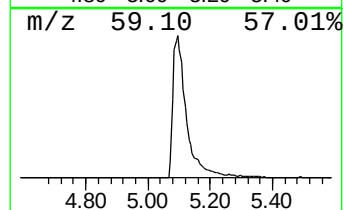
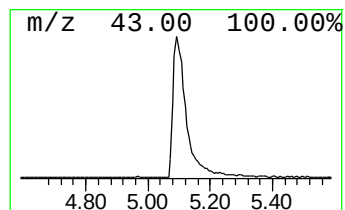
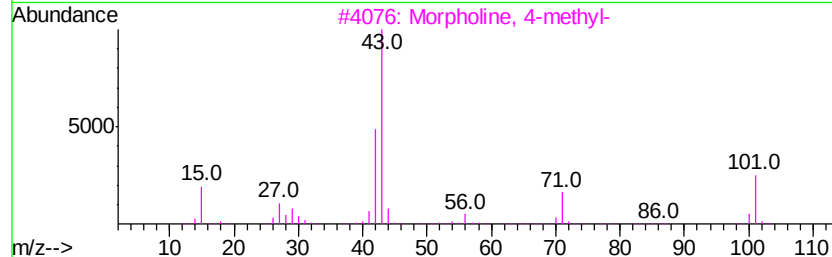
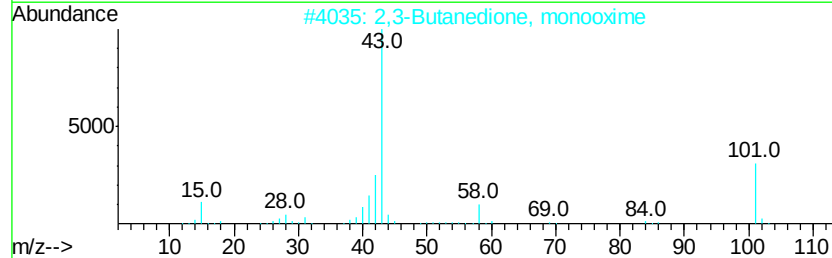
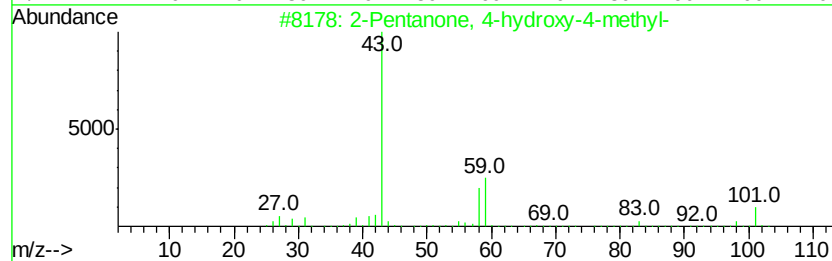
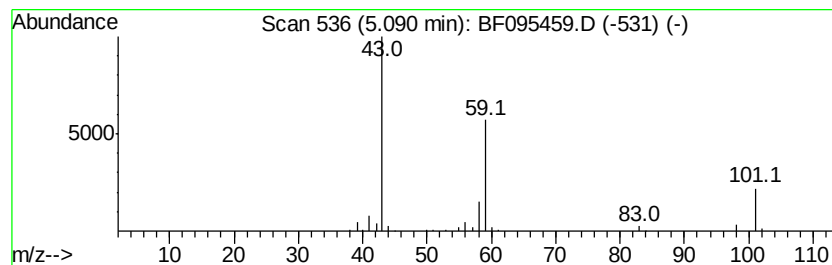
Instrument :
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.	
5.09	22.00 ng	580422	1,4-Dichlorobenzene-d4	7.74	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
3	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
4	Propane, 1-ethoxy-2-methyl-	102	C6H14O	000627-02-1	9
5	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	9



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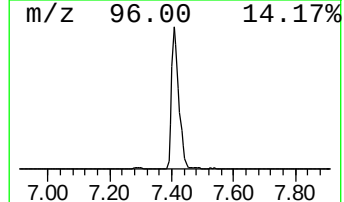
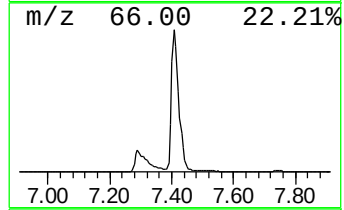
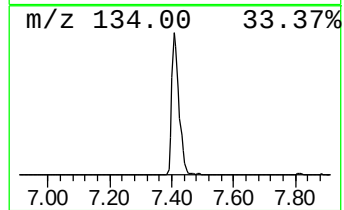
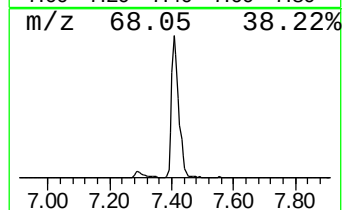
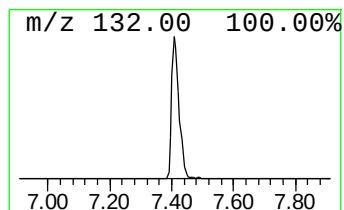
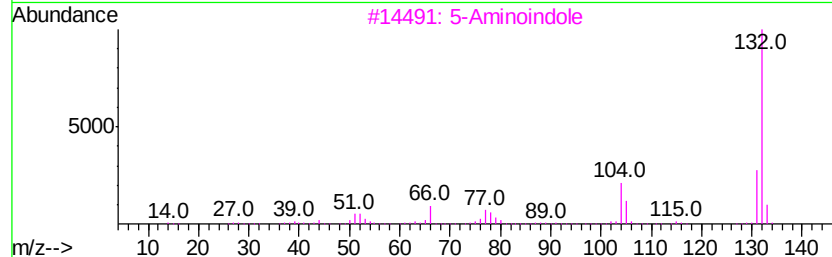
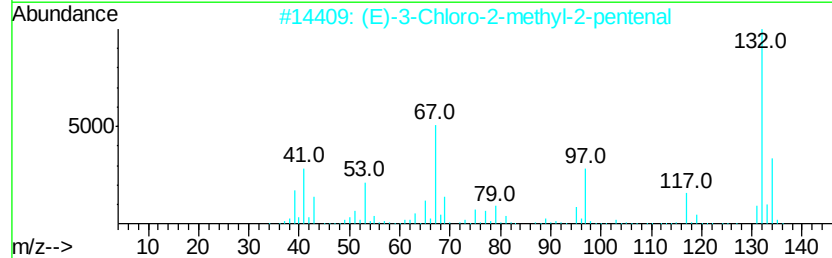
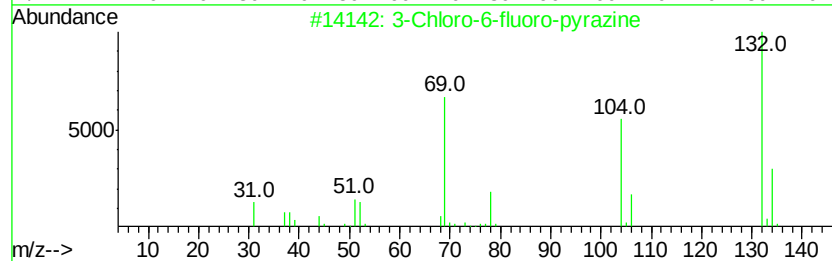
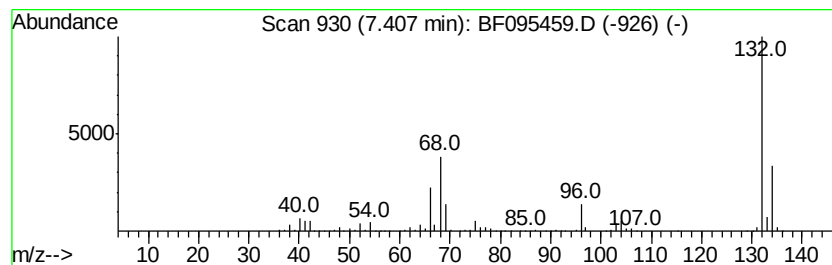
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 unknown7.41 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.41	93.75 ng	2473550	1,4-Dichlorobenzene-d4	7.74

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	30
2		(E)-3-Chloro-2-methyl-2-pentenal	132	C6H9ClO	031357-76-3	27
3		5-Aminoindole	132	C8H8N2	005192-03-0	12
4		Tranylcypromine-propionyl	189	C12H15NO	1000123-86-3	10
5		5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	9



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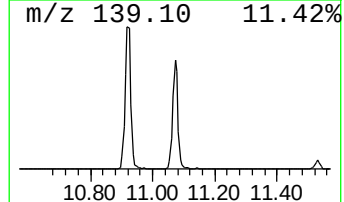
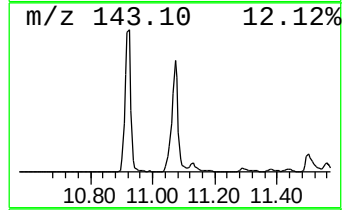
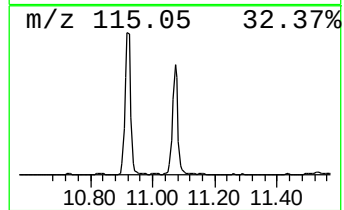
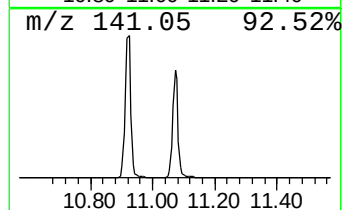
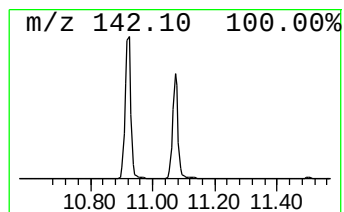
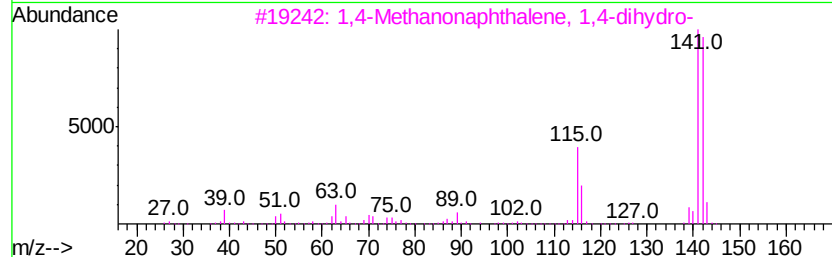
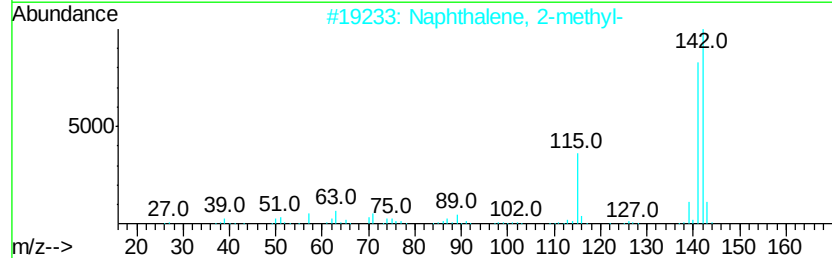
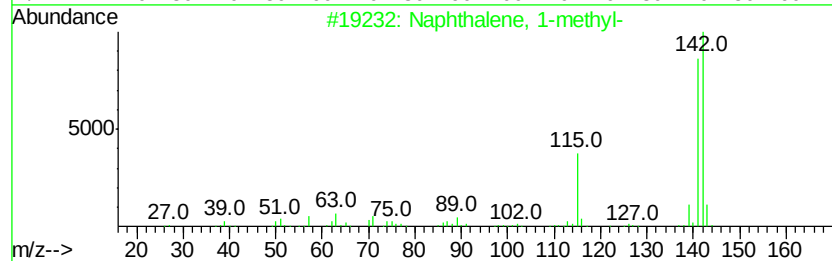
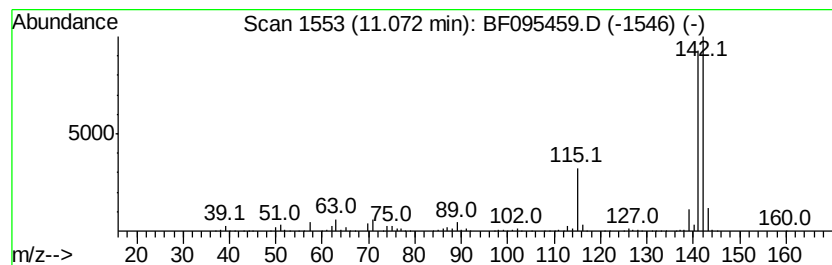
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 Naphthalene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.07	57.51 ng	2254350	Naphthalene-d8	9.76

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 1-methyl-	142	C11H10	000090-12-0	96
2		Naphthalene, 2-methyl-	142	C11H10	000091-57-6	96
3		1,4-Methanonaphthalene, 1,4-dihv...	142	C11H10	004453-90-1	91
4		Benzocycloheptatriene	142	C11H10	000264-09-5	91
5		1H-Indene, 1-ethylidene-	142	C11H10	002471-83-2	64



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
Data File : BF095459.D
Acq On : 26 May 2017 14:14
Operator : SJ/MA
Sample : I3240-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
EP2-WC8(0-8)

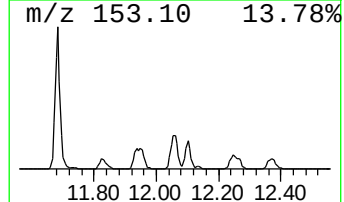
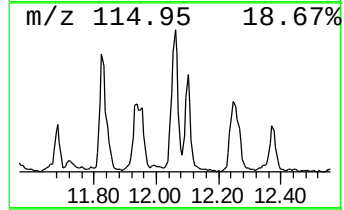
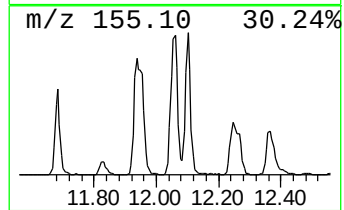
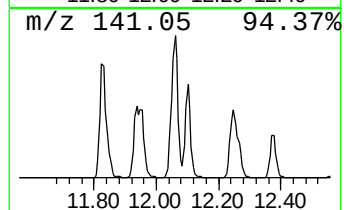
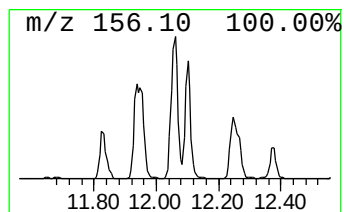
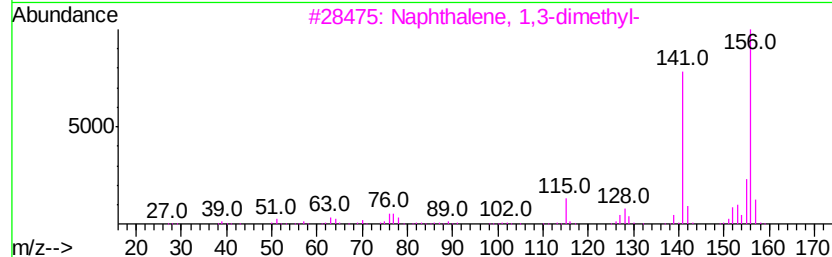
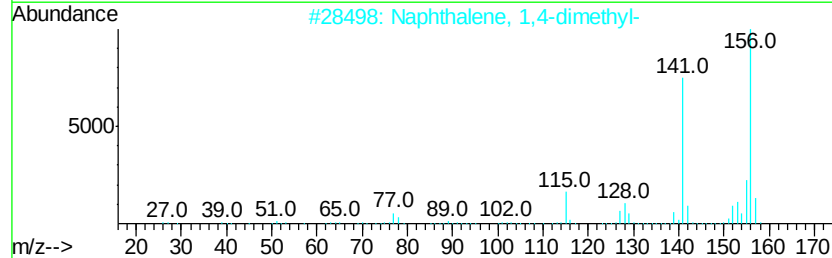
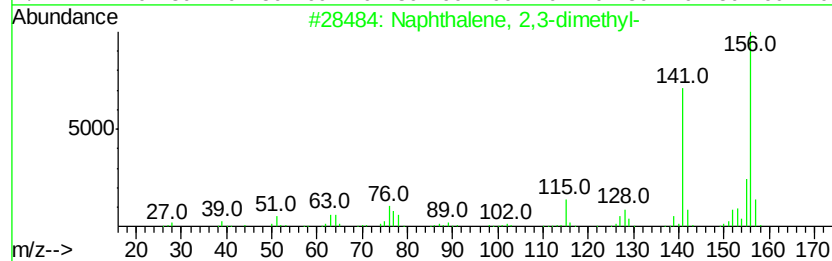
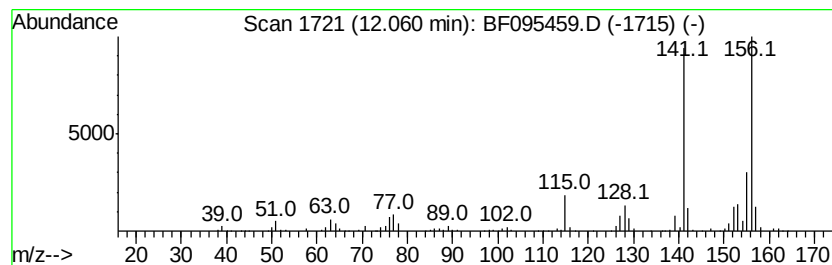
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 Naphthalene, 2,3-dimethyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.06	20.37 ng	1320930	Acenaphthene-d10	12.59

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	97
2		Naphthalene, 1,4-dimethyl-	156	C12H12	000571-58-4	97
3		Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
4		Naphthalene, 2,6-dimethyl-	156	C12H12	000581-42-0	97
5		Naphthalene, 1,6-dimethyl-	156	C12H12	000575-43-9	97



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052617\
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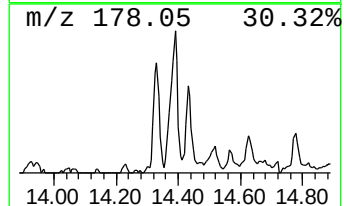
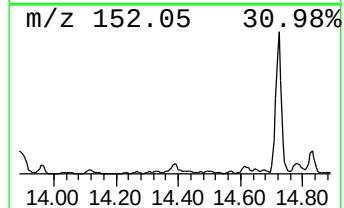
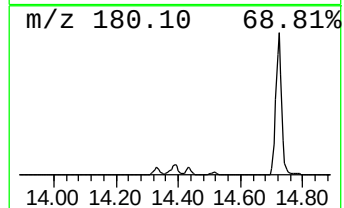
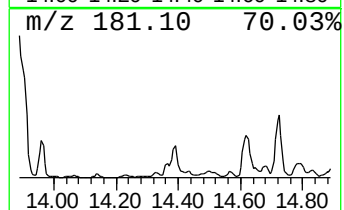
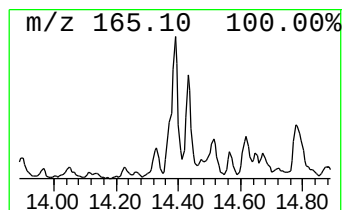
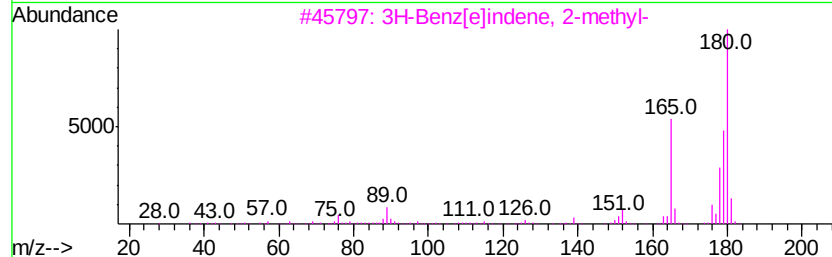
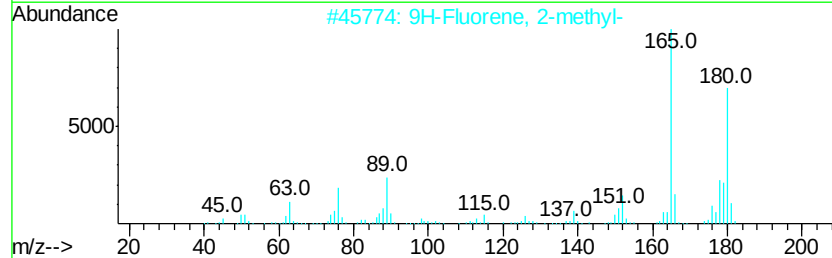
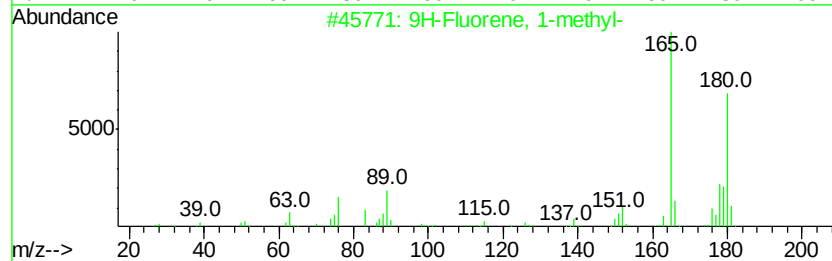
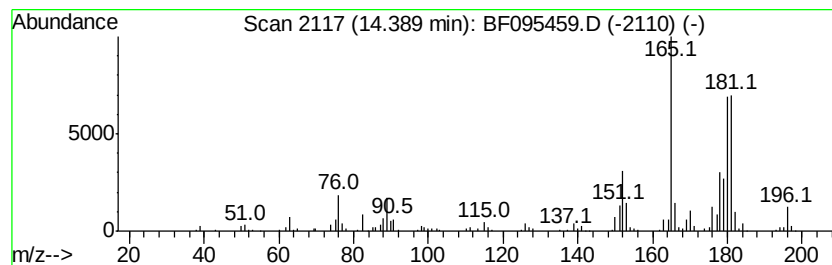
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 9H-Fluorene, 1-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.	
14.39	20.56 ng	541201	Phenanthrene-d10	15.00	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	78
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	78
3	3H-Benz[e]indene, 2-methyl-	180	C14H12	150096-60-9	60
4	9H-Fluorene, 9-methyl-	180	C14H12	002523-37-7	55
5	9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	55



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
Data File : BF095459.D
Acq On : 26 May 2017 14:14
Operator : SJ/MA
Sample : I3240-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
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ClientSampleId :
EP2-WC8(0-8)

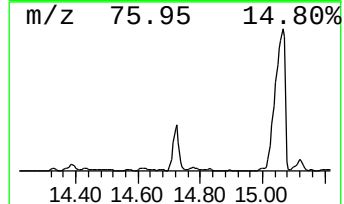
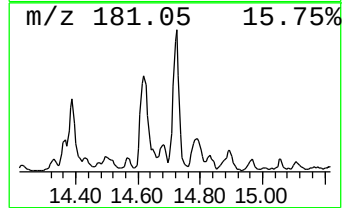
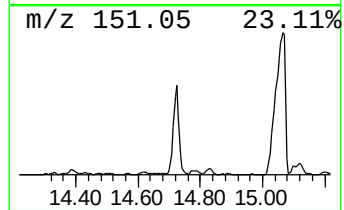
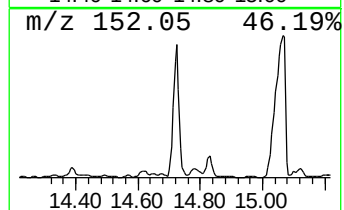
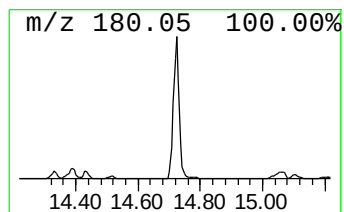
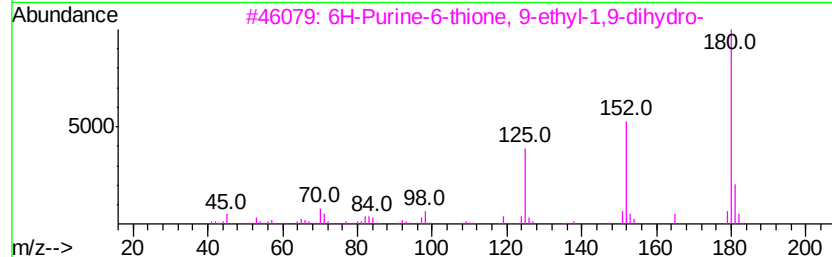
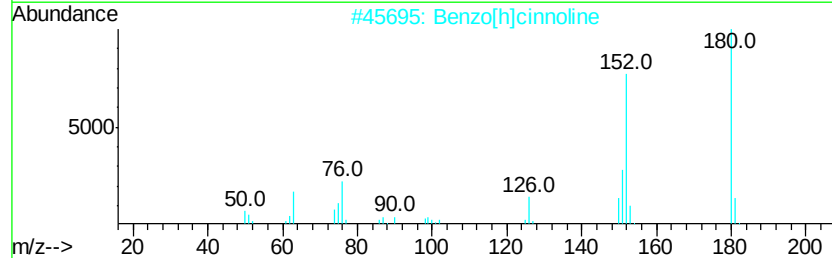
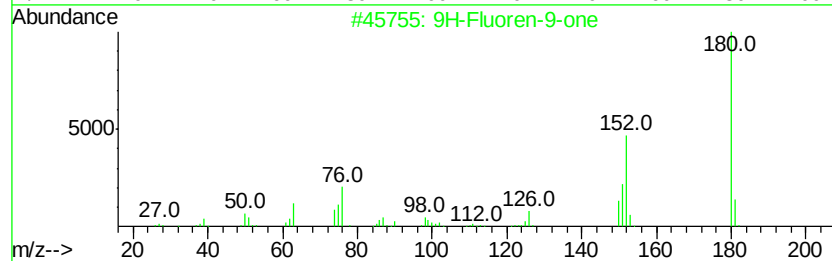
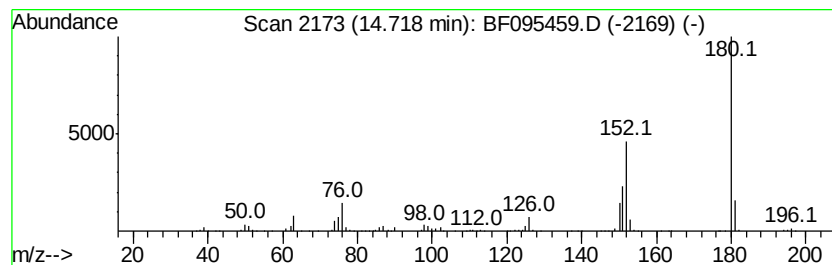
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 9H-Fluoren-9-one Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.72	66.09 ng	1739400	Phenanthrene-d10	15.00

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
2		Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
3		6H-Purine-6-thione, 9-ethyl-1,9-...	180	C7H8N4S	005427-20-3	59
4		1H-Phenalen-1-one	180	C13H8O	000548-39-0	58
5		2,3-Diazaphenanthrene	180	C12H8N2	000229-72-1	53



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
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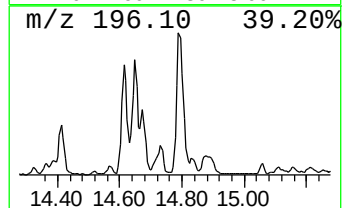
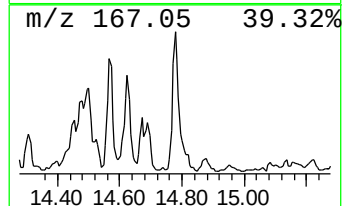
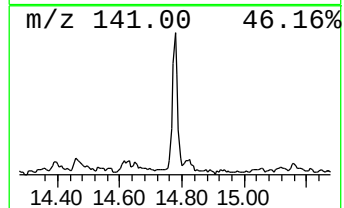
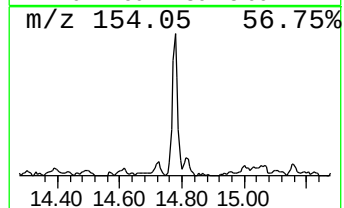
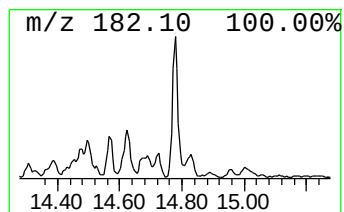
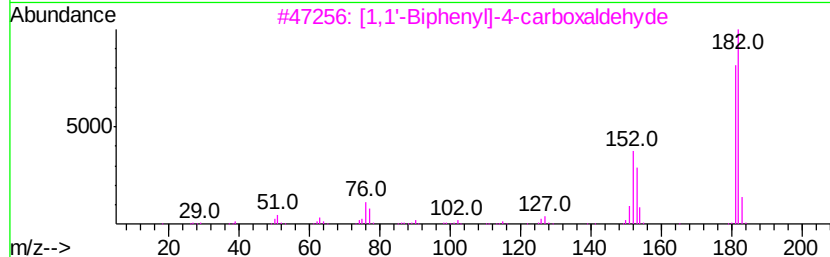
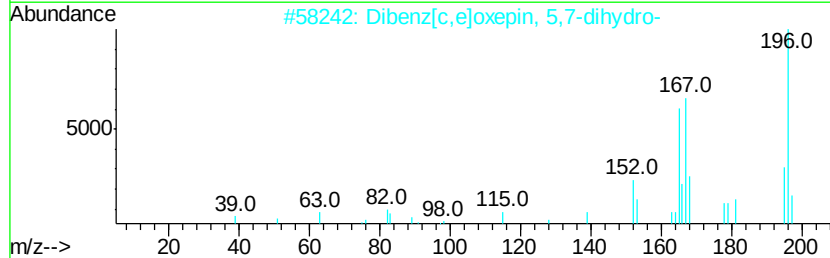
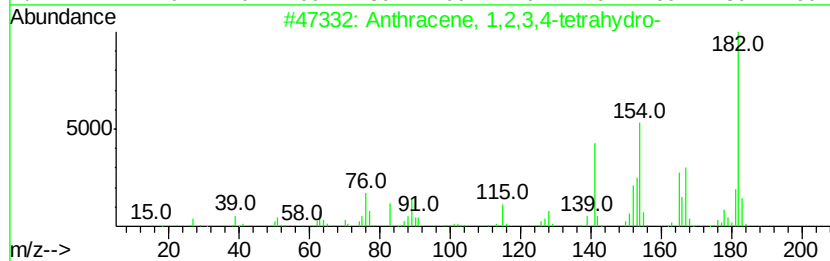
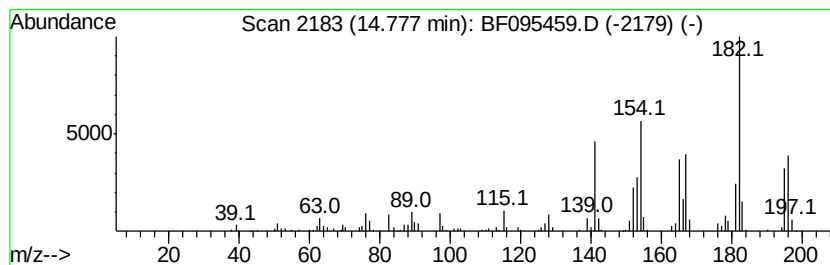
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD		R.T.
14.78	24.31 ng	639912	Phenanthrene-d10		15.00
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	50
2	Dibenz[c,e]oxepin, 5,7-dihydro-	196	C14H12O	001136-22-7	42
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	35
4	Naphtho[2,1-b]furan, 1,2-dimethyl-	196	C14H12O	129812-23-3	30
5	1,1'-Biphenyl, 3,4'-dimethyl-	182	C14H14	007383-90-6	30



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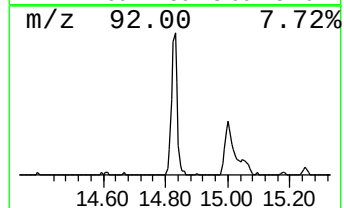
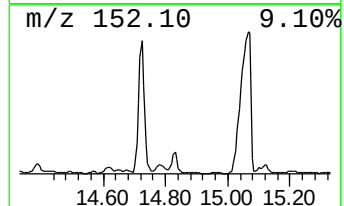
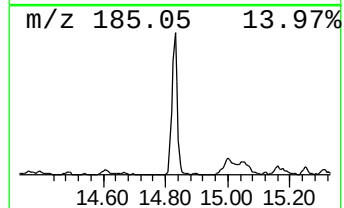
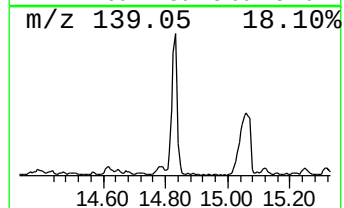
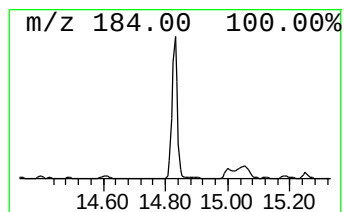
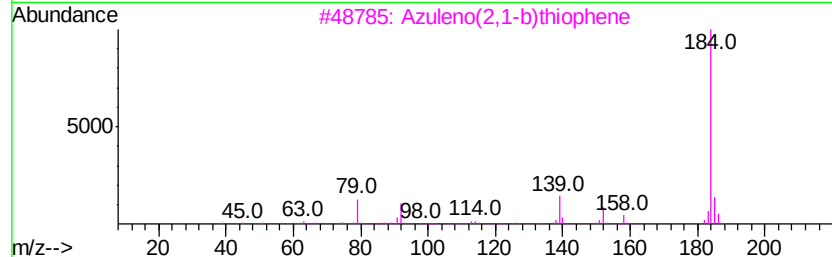
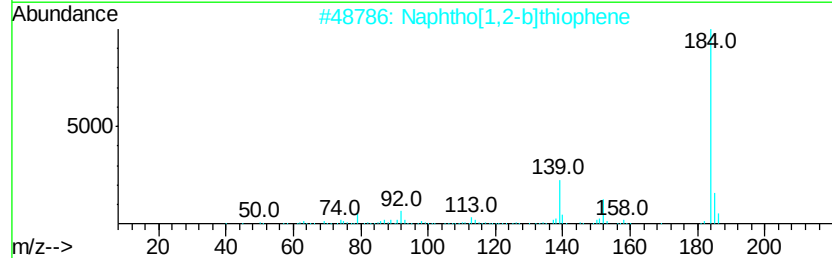
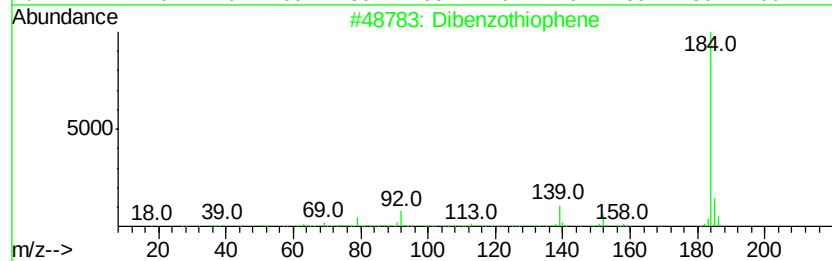
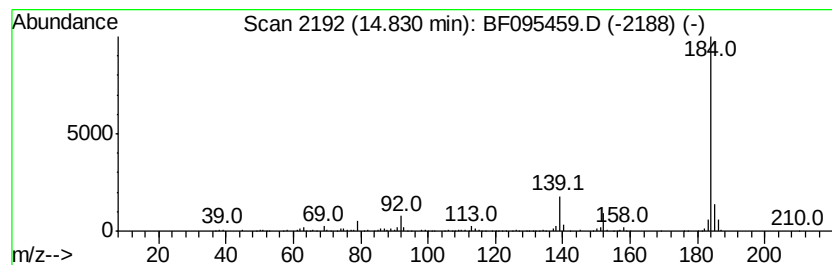
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Dibenzothiophene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	34.29 ng	902659	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 91
4		Naphtho[2,1-b]thiophene	184 C12H8S	000233-02-3 86
5		1,1'-Biphenyl, 2-methoxy-	184 C13H12O	000086-26-0 72



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
Data File : BF095459.D
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Operator : SJ/MA
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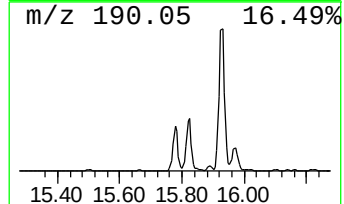
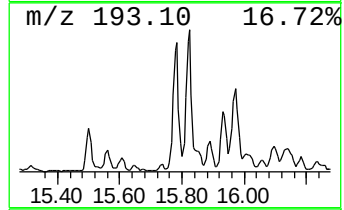
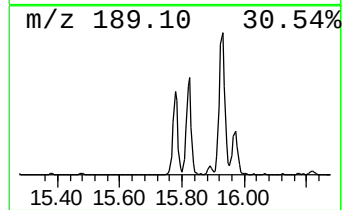
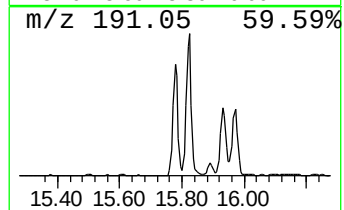
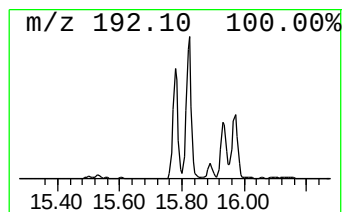
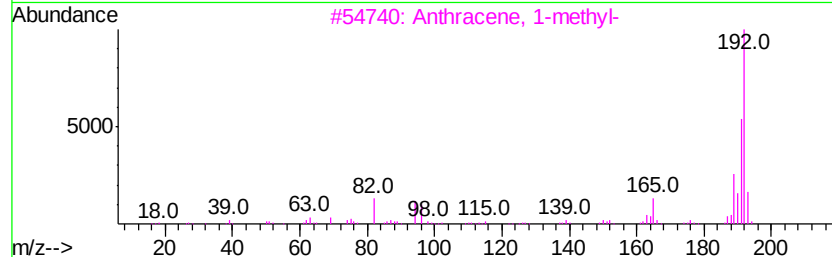
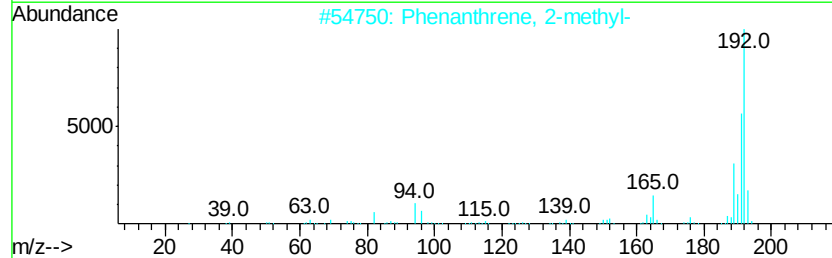
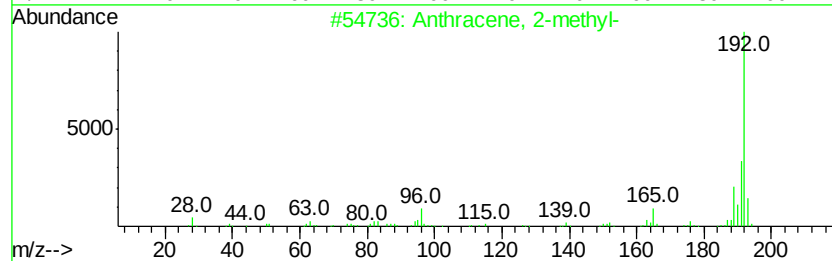
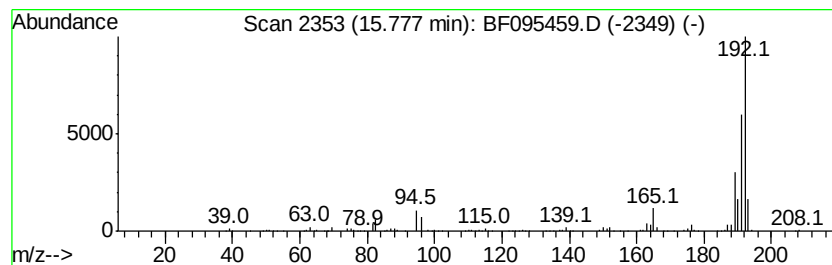
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Anthracene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.78	44.57 ng	1173210	Phenanthrene-d10	15.00

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
2		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3		Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
4		Anthracene, 9-methyl-	192	C15H12	000779-02-2	90
5		Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	87



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
Data File : BF095459.D
Acq On : 26 May 2017 14:14
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ClientSampleId :
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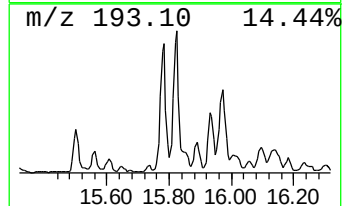
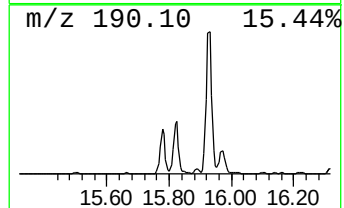
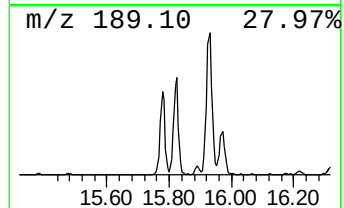
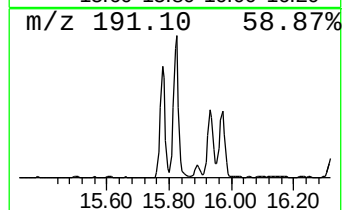
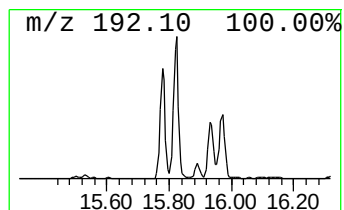
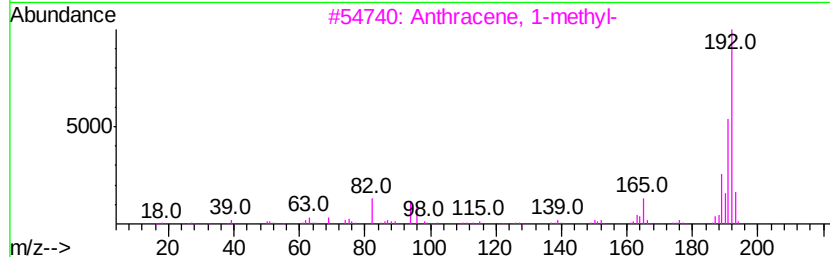
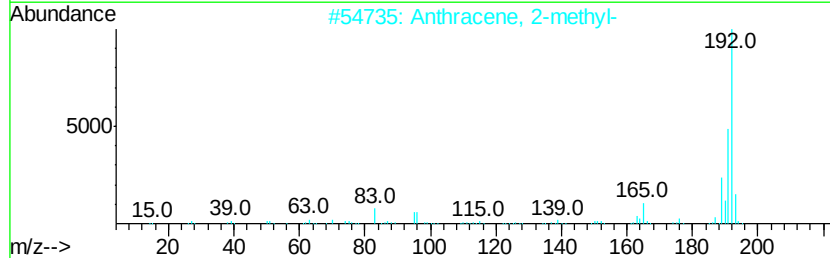
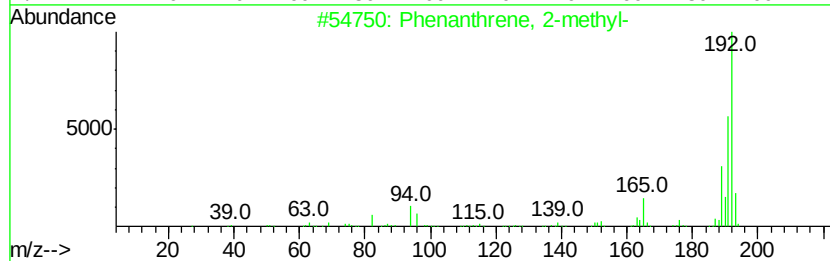
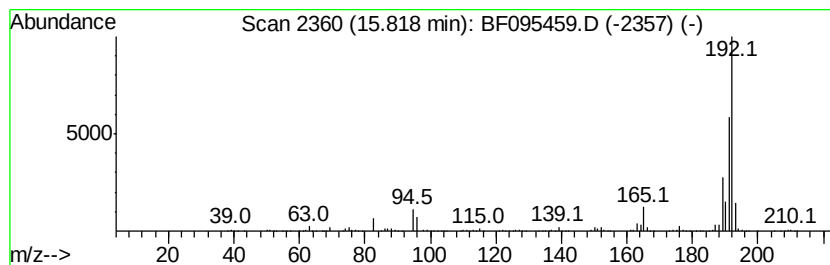
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.82	54.17 ng	1425880	Phenanthrene-d10	15.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2		Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
3		Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
4		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
5		1H-Cyclopropa[l]phenanthrene, 1a,...	192	C15H12	000949-41-7	95



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
Data File : BF095459.D
Acq On : 26 May 2017 14:14
Operator : SJ/MA
Sample : I3240-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
EP2-WC8(0-8)

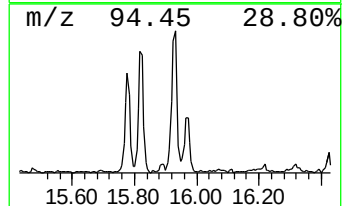
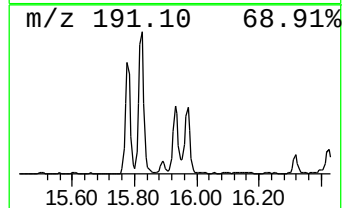
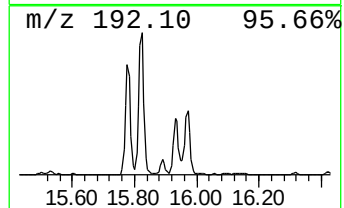
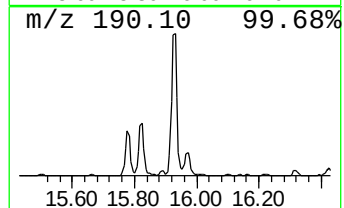
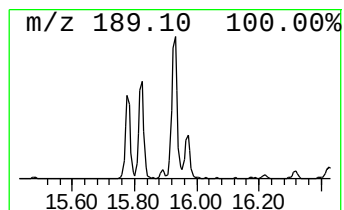
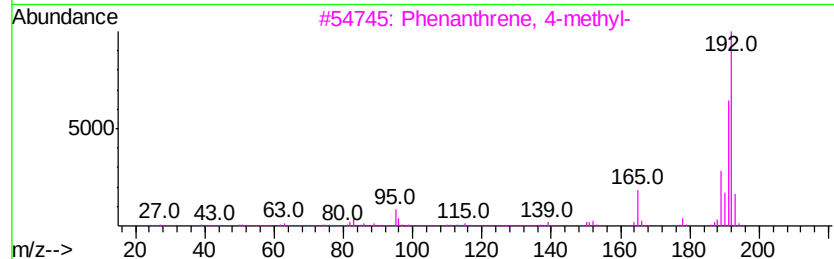
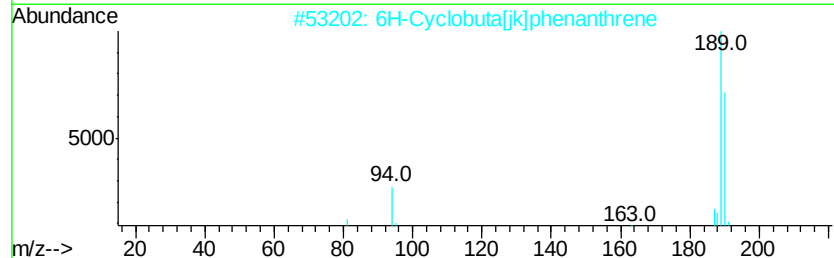
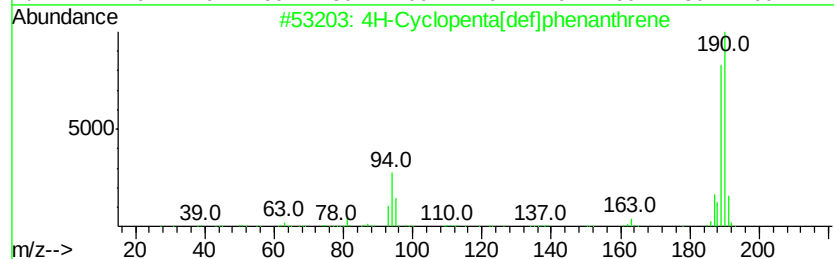
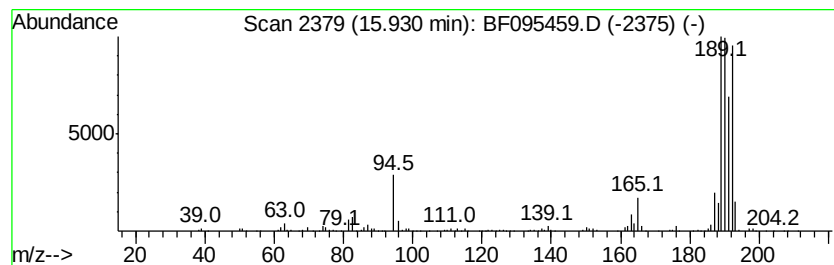
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 4H-Cyclopenta[def]phenanthrene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.93	41.84 ng	1101360	Phenanthrene-d10	15.00

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	90
2			6H-Cyclobuta[ik]phenanthrene	190	C15H10	083469-43-6	49
3			Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	42
4			5H-Dibenzof[a,d]cycloheptene	192	C15H12	000256-81-5	42
5			1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	38



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
Data File : BF095459.D
Acq On : 26 May 2017 14:14
Operator : SJ/MA
Sample : I3240-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
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ClientSampleId :
EP2-WC8(0-8)

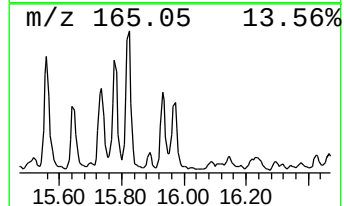
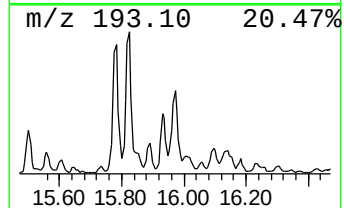
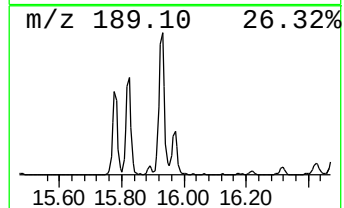
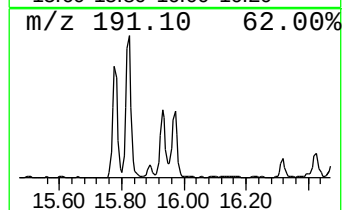
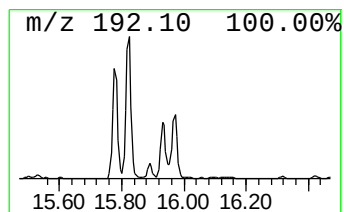
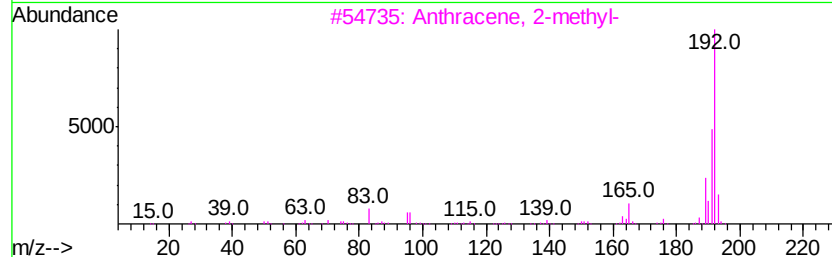
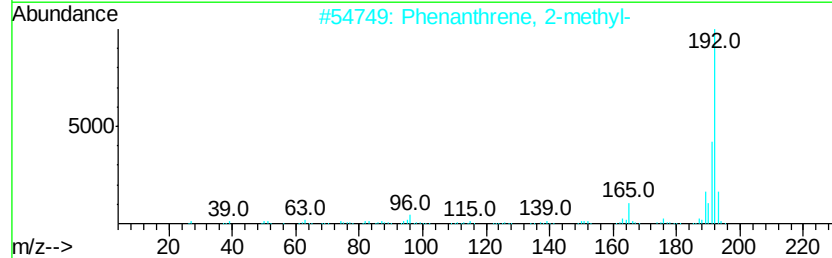
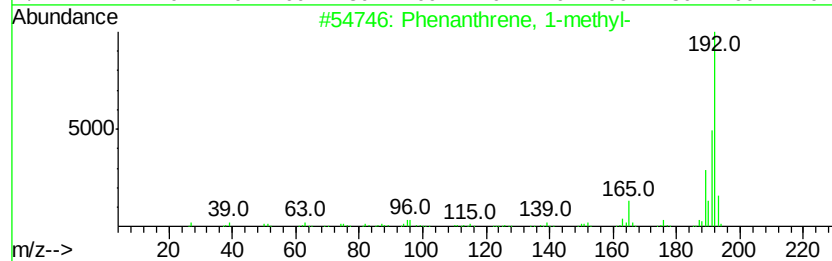
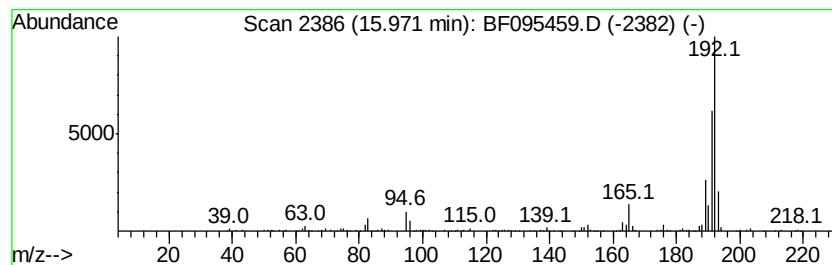
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 Phenanthrene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.97	35.67 ng	938745	Phenanthrene-d10	15.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
3		Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
4		1H-Indene, 1-phenyl-	192	C15H12	001961-96-2	95
5		1H-Cyclopropa[l]phenanthrene, 1a, ...	192	C15H12	000949-41-7	94



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
Data File : BF095459.D
Acq On : 26 May 2017 14:14
Operator : SJ/MA
Sample : I3240-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
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ClientSampleId :
EP2-WC8(0-8)

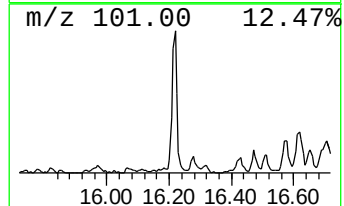
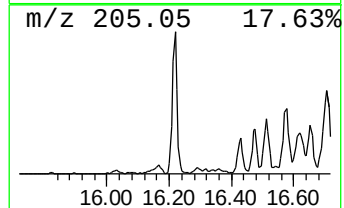
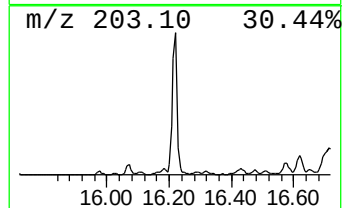
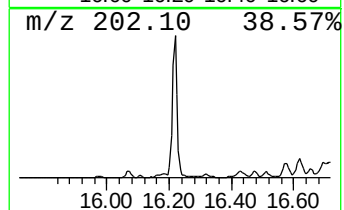
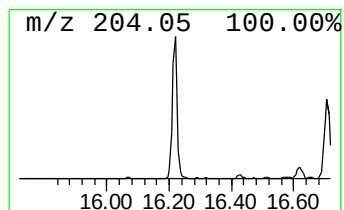
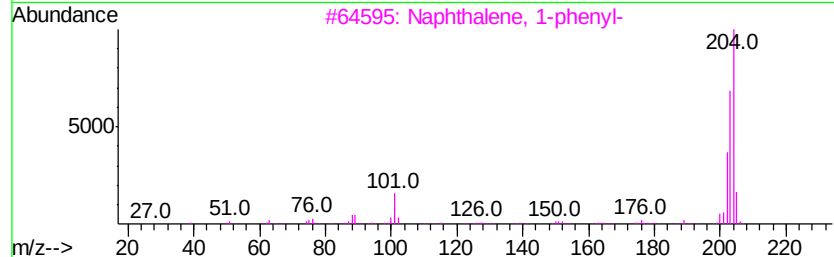
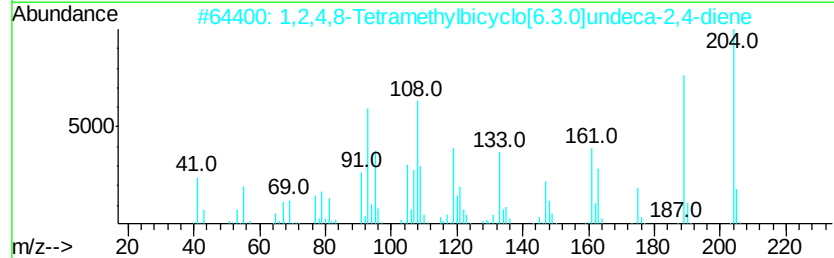
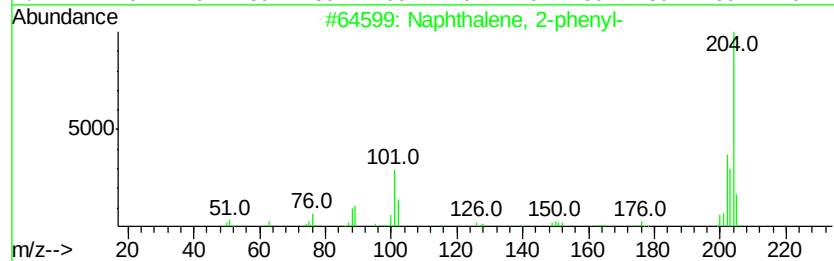
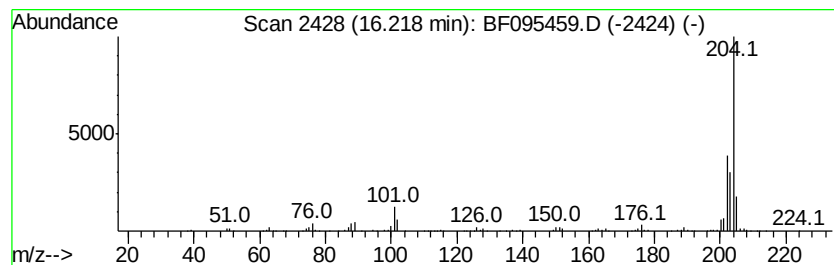
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 Naphthalene, 2-phenyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.22	30.66 ng	806992	Phenanthrene-d10	15.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	95
2		1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene	204	C15H24	137235-51-9	86
3		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	78
4		9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	59
5		Pyrazol-5-ol, 3-(3,4-methylenedi...	204	C10H8N2O3	1000271-76-1	50



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
Data File : BF095459.D
Acq On : 26 May 2017 14:14
Operator : SJ/MA
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Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
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ClientSampleId :
EP2-WC8(0-8)

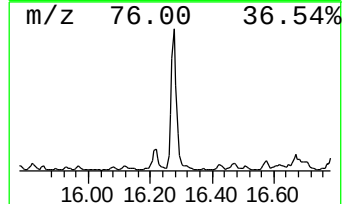
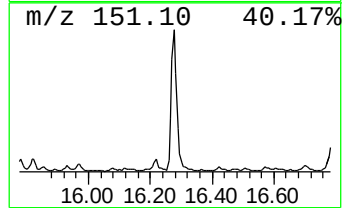
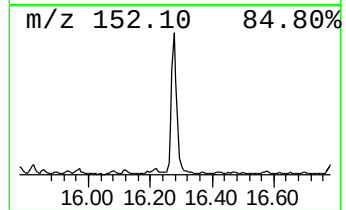
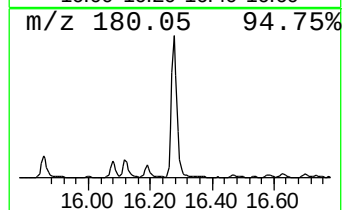
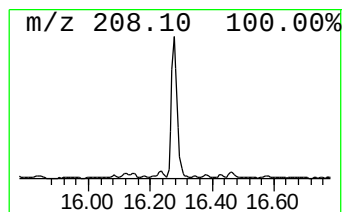
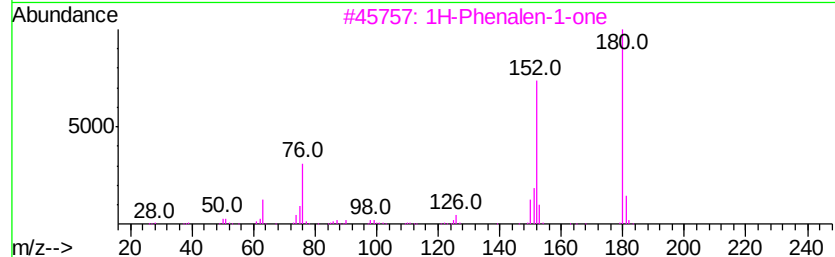
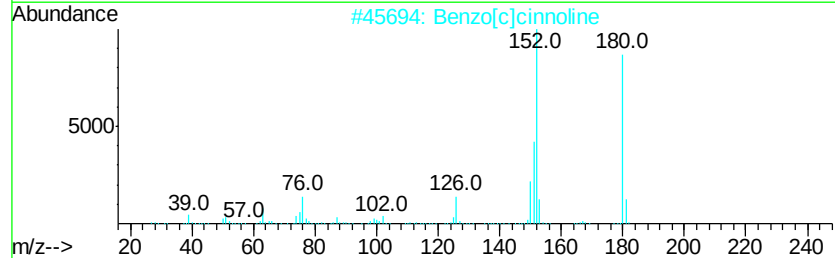
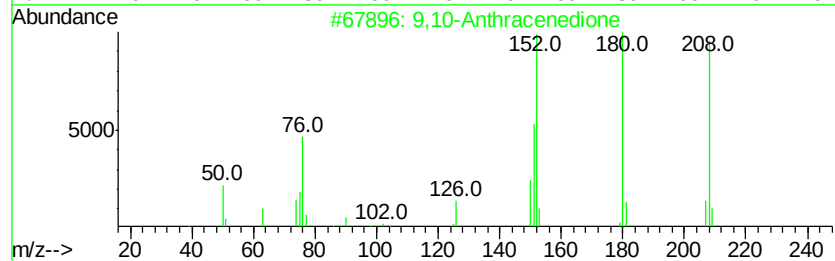
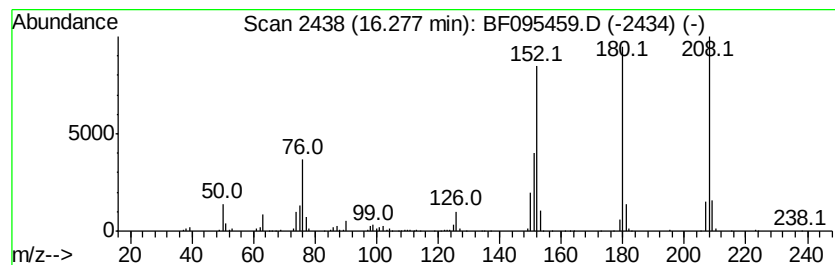
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 9,10-Anthracenedione Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.28	43.33 ng	1140590	Phenanthrene-d10	15.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
2		Benzo[c]cinnoline	180	C12H8N2	000230-17-1	93
3		1H-Phenalen-1-one	180	C13H8O	000548-39-0	60
4		1,4-Anthracenedione	208	C14H8O2	000635-12-1	53
5		9H-Fluoren-9-one	180	C13H8O	000486-25-9	52



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
Data File : BF095459.D
Acq On : 26 May 2017 14:14
Operator : SJ/MA
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Misc :
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ClientSampleId :
EP2-WC8(0-8)

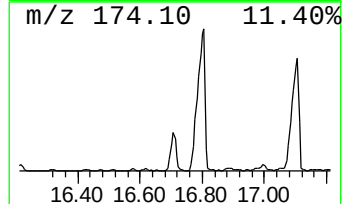
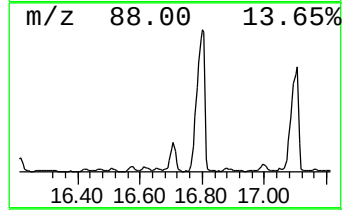
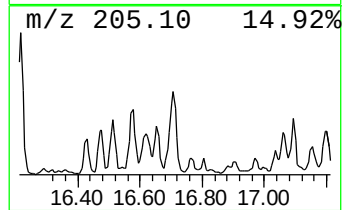
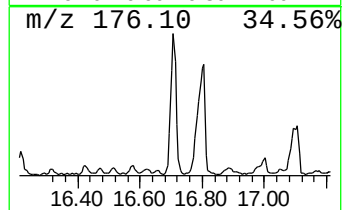
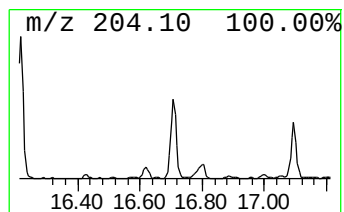
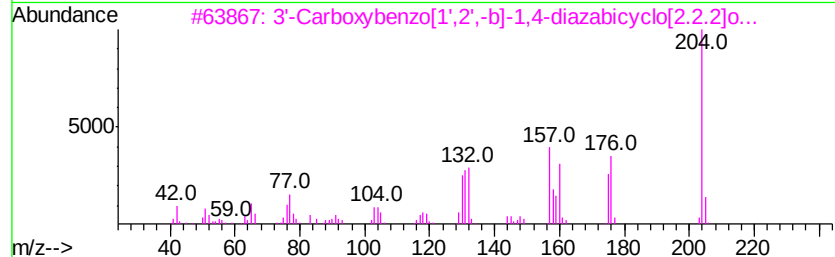
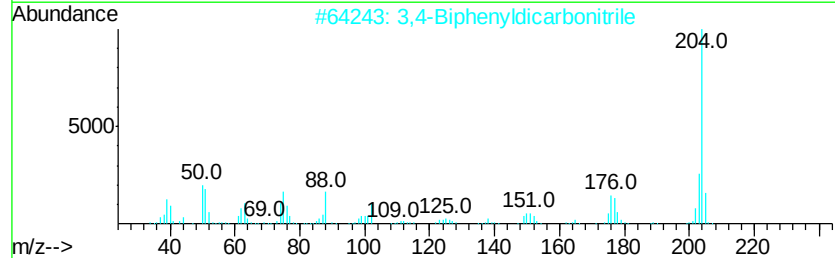
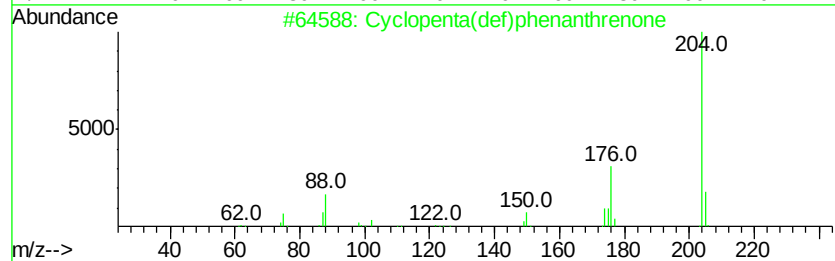
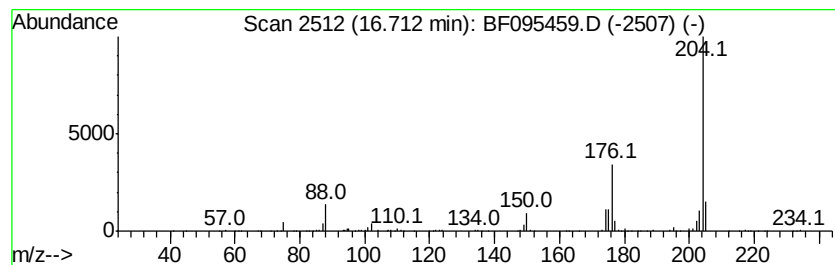
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Cyclopenta(def)phenanthrenone Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.71	29.19 ng	768326	Phenanthrene-d10	15.00

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	97
2		3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	72
3		3'-Carboxybenzo[1',2',-b]-1,4-di...	204	C11H12N2O2	138023-41-3	53
4		4,5,6,7-Tetrafluoro-2-methyl-1H-...	204	C8H4F4N2	081430-75-3	53
5		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	53



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052617\
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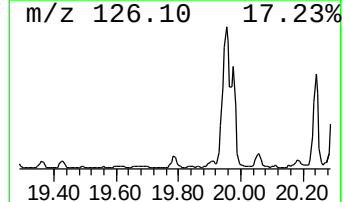
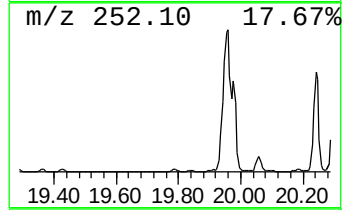
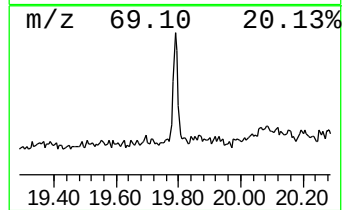
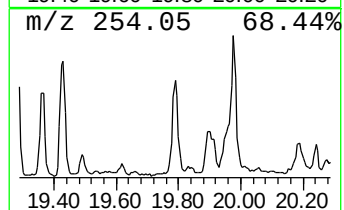
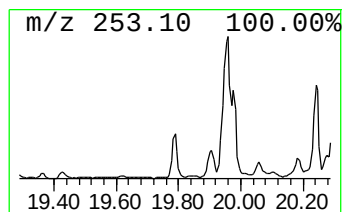
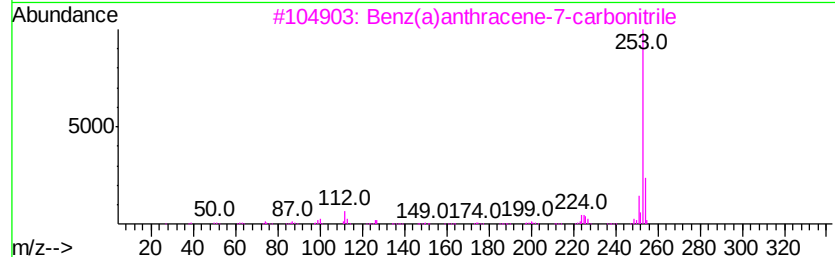
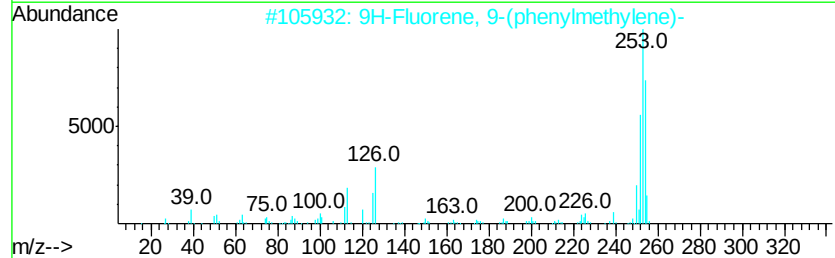
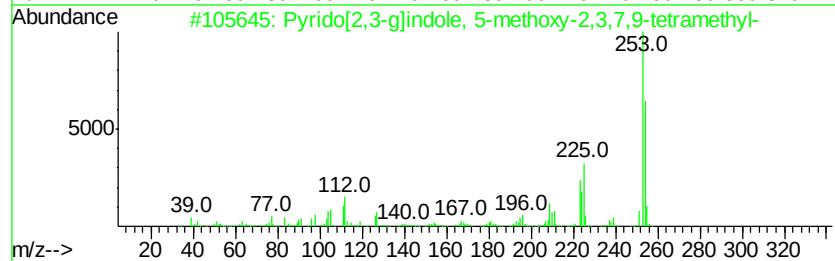
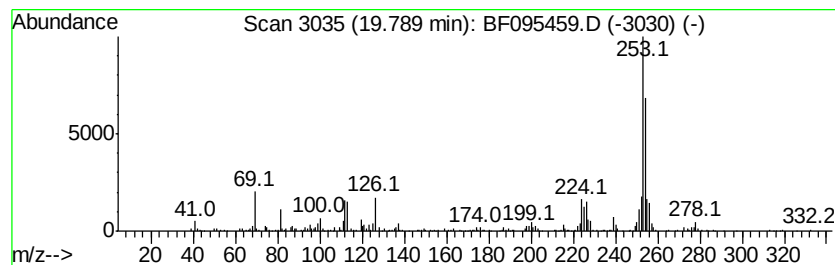
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ClientSampleId :
EP2-WC8(0-8)

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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 Pyrido[2,3-g]indole, 5-meth... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.	
19.79	22.70 ng	462310	Perylene-d12	20.36	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrido[2,3-g]indole, 5-methoxy-2...	254	C16H18N2O	201991-45-9	72
2	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	64
3	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	60
4	9,10[1',2']-Benzenoanthracene, 9...	254	C20H14	000477-75-8	59
5	4,6'-Biazulenyl	254	C20H14	094154-49-1	59



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
Data File : BF095459.D
Acq On : 26 May 2017 14:14
Operator : SJ/MA
Sample : I3240-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

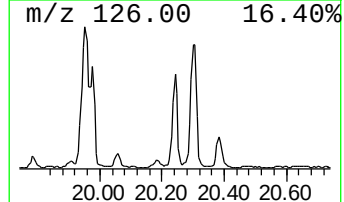
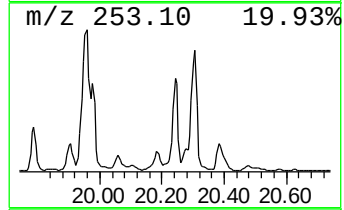
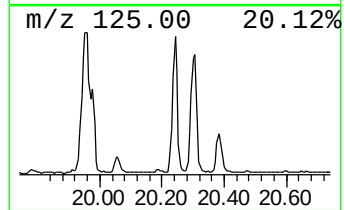
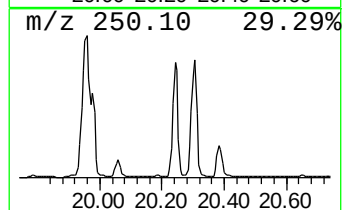
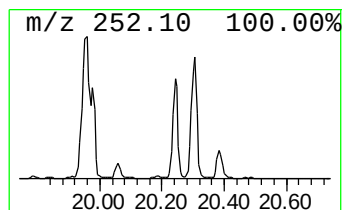
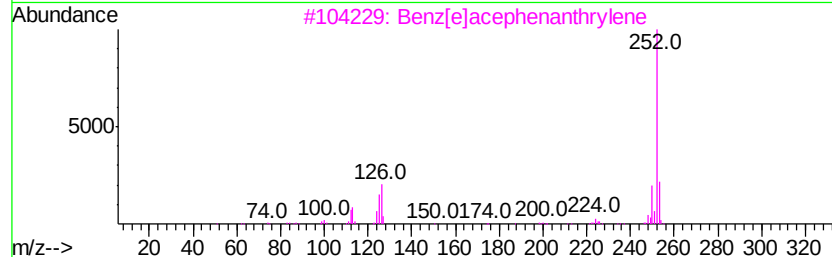
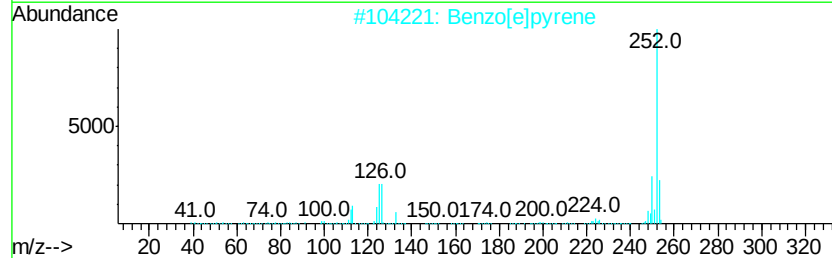
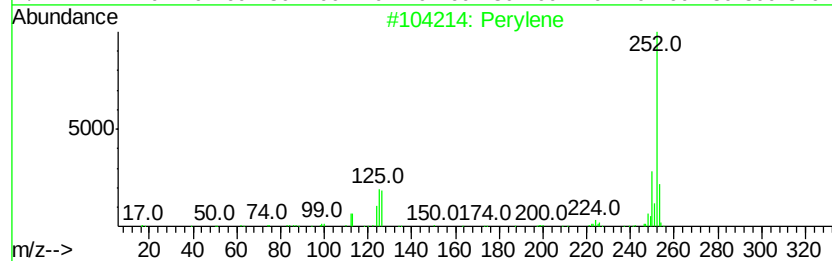
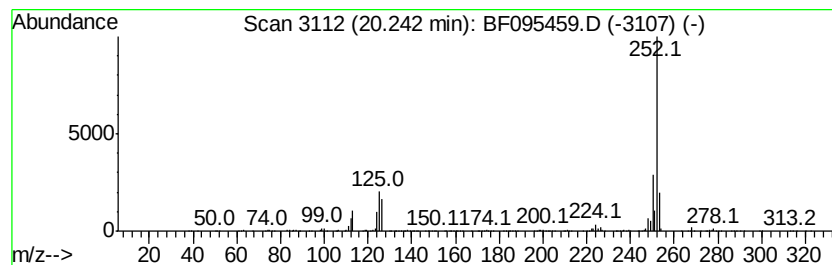
Instrument :
BNA_F
ClientSampleId :
EP2-WC8(0-8)

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 18 Perylene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
20.24	90.00 ng	1832970	Perylene-d12	20.36	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Perylene	252	C20H12	000198-55-0	98
2	Benzo[el]pyrene	252	C20H12	000192-97-2	98
3	Benzo[el]acephenanthrylene	252	C20H12	000205-99-2	94
4	Benzo[i]lfluoranthene	252	C20H12	000205-82-3	90
5	Benzo[a]pyrene	252	C20H12	000050-32-8	89



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
Data File : BF095459.D
Acq On : 26 May 2017 14:14
Operator : SJ/MA
Sample : I3240-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
EP2-WC8(0-8)

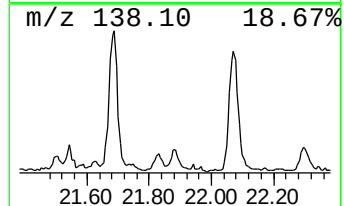
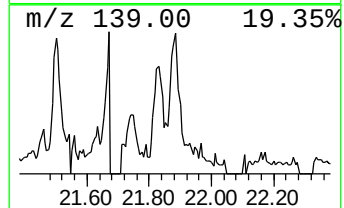
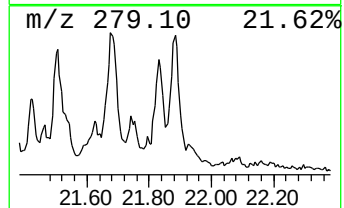
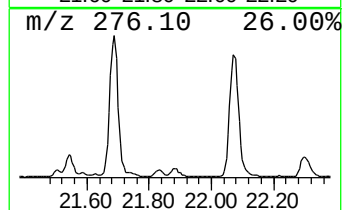
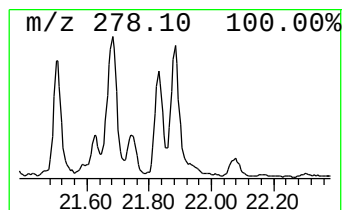
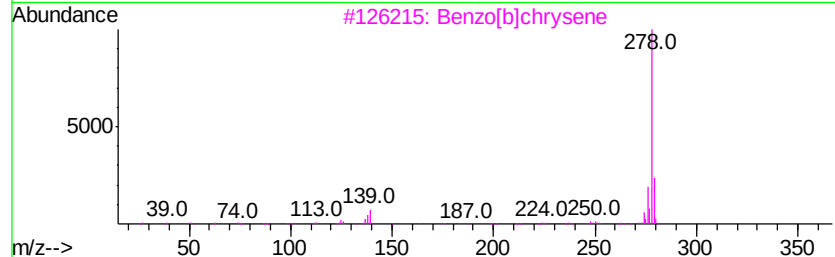
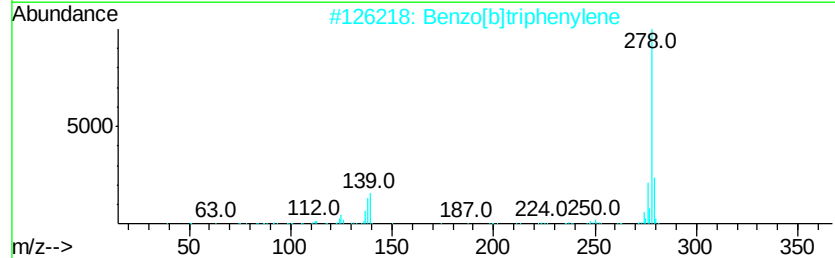
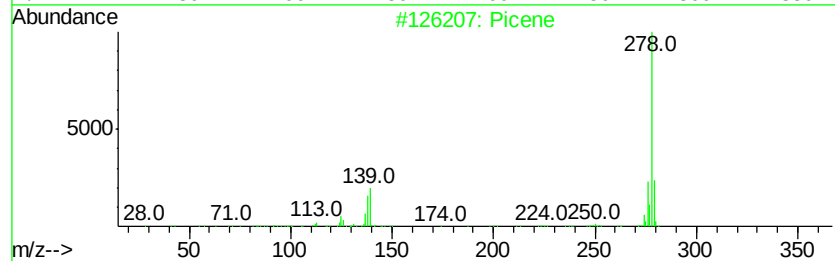
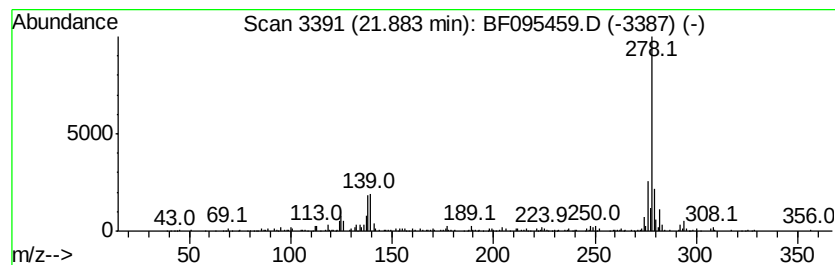
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 19 Picene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.88	17.59 ng	358242	Perylene-d12	20.36

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Picene	278	C22H14	000213-46-7	96
2		Benzo[b]triphenylene	278	C22H14	000215-58-7	95
3		Benzo[b]chrysene	278	C22H14	000214-17-5	93
4		Pentacene	278	C22H14	000135-48-8	93
5		Benzo[a]naphthacene	278	C22H14	000226-88-0	89



Data Path : Z:\HPCHEM1\BNA F\DATA\BF052617\
Data File : BF095459.D
Acq On : 26 May 2017 14:14
Operator : SJ/MA
Sample : I3240-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
EP2-WC8(0-8)

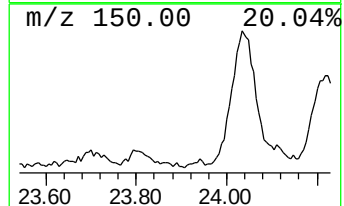
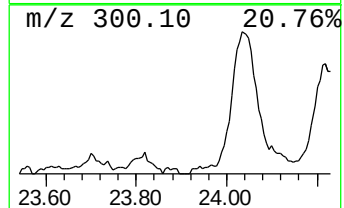
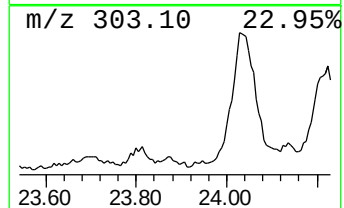
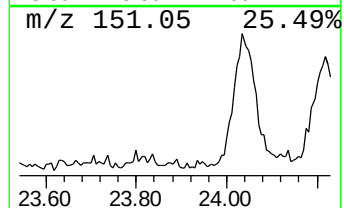
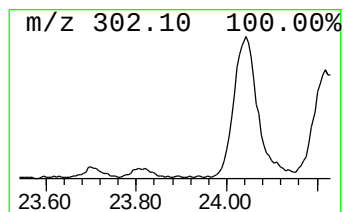
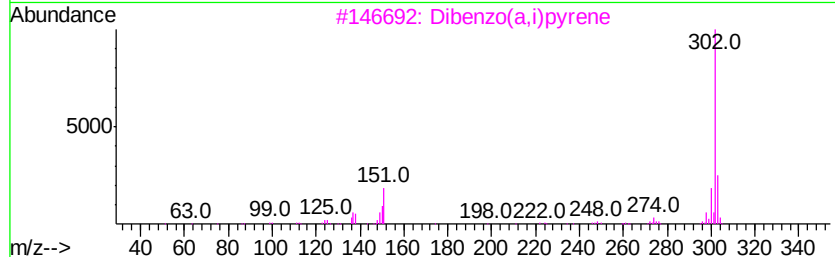
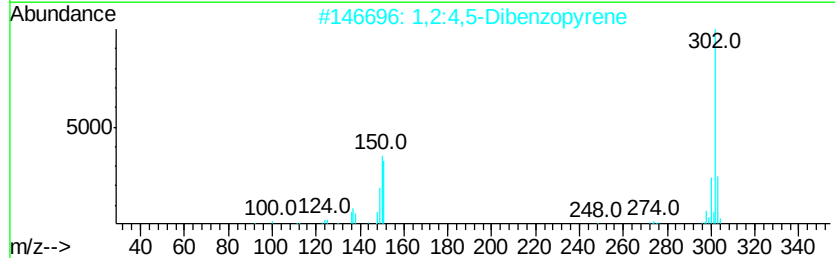
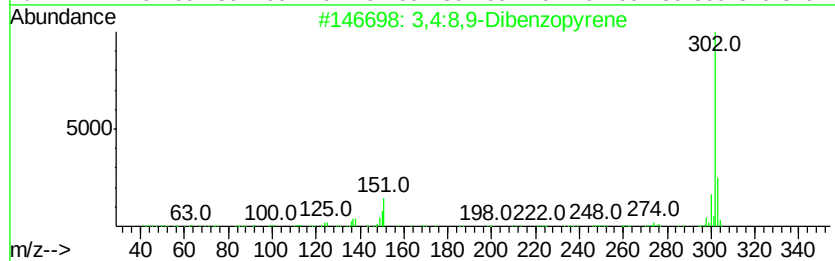
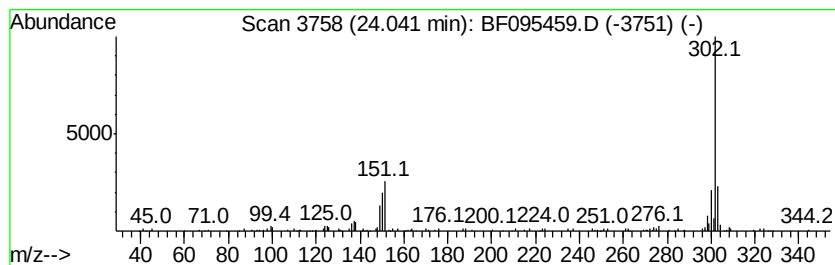
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 20 3,4:8,9-Dibenzopyrene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.04	17.94 ng	365461	Perylene-d12	20.36

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	3,4:8,9-Dibenzopyrene	302	C24H14	000189-64-0	95
2		1,2:4,5-Dibenzopyrene	302	C24H14	000192-65-4	93
3		Dibenzo(a,i)pyrene	302	C24H14	000189-55-9	92
4		Dibenz(a,e)aceanthrylene	302	C24H14	005385-75-1	91
5		1,2,9,10-Dibenzopyrene	302	C24H14	000191-30-0	86



Data Path : Z:\HPCHEM1\BNA_F\DATA\BF052617\
 Data File : BF095459.D
 Acq On : 26 May 2017 14:14
 Operator : SJ/MA
 Sample : I3240-01
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EP2-WC8(0-8)

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

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
2-Pentanone, 4-hy...	5.09	22.0	ng	580422	1	7.74	527693	20.0
unknown7.41	7.41	93.8	ng	2473550	1	7.74	527693	20.0
Naphthalene, 1-me...	11.07	57.5	ng	2254350	2	9.76	783954	20.0
Naphthalene, 2,3-...	12.06	20.4	ng	1320930	3	12.59	1297000	20.0
9H-Fluorene, 1-me...	14.39	20.6	ng	541201	4	15.00	526411	20.0
9H-Fluoren-9-one	14.72	66.1	ng	1739400	4	15.00	526411	20.0
Anthracene, 1,2,3...	14.78	24.3	ng	639912	4	15.00	526411	20.0
Dibenzothiophene	14.83	34.3	ng	902659	4	15.00	526411	20.0
Anthracene, 2-met...	15.78	44.6	ng	1173210	4	15.00	526411	20.0
Phenanthrene, 2-m...	15.82	54.2	ng	1425880	4	15.00	526411	20.0
4H-Cyclopenta[def...	15.93	41.8	ng	1101360	4	15.00	526411	20.0
Phenanthrene, 1-m...	15.97	35.7	ng	938745	4	15.00	526411	20.0
Naphthalene, 2-ph...	16.22	30.7	ng	806992	4	15.00	526411	20.0
9,10-Anthracenedione	16.28	43.3	ng	1140590	4	15.00	526411	20.0
Cyclopenta(def)ph...	16.71	29.2	ng	768326	4	15.00	526411	20.0
Pyrido[2,3-g]indo...	19.79	22.7	ng	462310	6	20.36	407336	20.0
Perylene	20.24	90.0	ng	1832970	6	20.36	407336	20.0
Picene	21.88	17.6	ng	358242	6	20.36	407336	20.0
3,4:8,9-Dibenzopy...	24.04	17.9	ng	365461	6	20.36	407336	20.0