

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
 Data File : BM020204.D
 Acq On : 08 May 2019 20:46
 Operator : JU/SJ
 Sample : K2641-09 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CL-02-050719-E

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:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.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	5.363	398	404	414	rBV	1696312	2417066	15.03%	1.388%
2	6.951	666	674	685	rBV	1646702	2599311	16.17%	1.493%
3	7.316	729	736	746	rBV	1689206	2702750	16.81%	1.553%
4	7.787	809	816	823	rBV	711106	1172908	7.30%	0.674%
5	8.098	862	869	878	rBV	1213594	2033789	12.65%	1.168%
6	8.951	1006	1014	1025	rBV	962696	1647684	10.25%	0.946%
7	10.581	1284	1291	1296	rBV	827379	1421020	8.84%	0.816%
8	10.628	1296	1299	1306	rVB	105840	165755	1.03%	0.095%
9	12.245	1565	1574	1580	rVB	153206	256553	1.60%	0.147%
10	12.463	1603	1611	1620	rVB	186177	315678	1.96%	0.181%
11	13.045	1700	1710	1719	rBV	2184274	3236424	20.13%	1.859%
12	13.604	1793	1805	1811	rBV2	125813	335082	2.08%	0.192%
13	13.745	1822	1829	1834	rBV	224067	414956	2.58%	0.238%
14	13.798	1834	1838	1842	rBV	133642	190106	1.18%	0.109%
15	13.886	1848	1853	1858	rBV	265639	378473	2.35%	0.217%
16	13.980	1864	1869	1873	rBV	115347	173784	1.08%	0.100%
17	14.151	1889	1898	1909	rBV	340318	573306	3.57%	0.329%
18	14.427	1934	1945	1951	rBV2	1149938	1879957	11.69%	1.080%
19	14.492	1951	1956	1964	rVB	768691	1150215	7.15%	0.661%
20	14.639	1974	1981	1987	rBV4	67803	173959	1.08%	0.100%
21	14.827	2003	2013	2021	rVV2	548346	880774	5.48%	0.506%
22	14.904	2021	2026	2030	rVB	124851	175595	1.09%	0.101%
23	15.039	2043	2049	2054	rBV3	127768	238593	1.48%	0.137%
24	15.216	2071	2079	2082	rBV4	96057	211571	1.32%	0.122%
25	15.480	2118	2124	2135	rVB	1189389	1810733	11.26%	1.040%
26	15.639	2147	2151	2155	rVB2	153858	212394	1.32%	0.122%
27	15.769	2169	2173	2180	rVB	255860	397406	2.47%	0.228%
28	15.921	2190	2199	2206	rBV	2010956	2942641	18.30%	1.690%
29	16.151	2230	2238	2247	rVB6	126018	333117	2.07%	0.191%
30	16.480	2286	2294	2298	rBV2	276766	532398	3.31%	0.306%
31	16.527	2298	2302	2307	rVB2	152083	223576	1.39%	0.128%
32	16.627	2315	2319	2324	rVB	160752	239829	1.49%	0.138%
33	16.710	2324	2333	2336	rBV3	126398	293620	1.83%	0.169%
34	16.745	2336	2339	2347	rVV4	147794	292150	1.82%	0.168%

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
 Data File : BM020204.D
 Acq On : 08 May 2019 20:46
 Operator : JU/SJ
 Sample : K2641-09 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CL-02-050719-E

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:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

35	16.833	2350	2354	2360	rVB4	129140	215889	1.34%	0.124%
36	16.904	2361	2366	2372	rBV2	139471	273081	1.70%	0.157%
37	16.998	2377	2382	2389	rVB	407031	626091	3.89%	0.360%
38	17.180	2407	2413	2416	rBV	1356543	2034764	12.66%	1.169%
39	17.227	2416	2421	2427	rVV	7609595	10761545	66.94%	6.182%
40	17.316	2430	2436	2441	rVV	2347523	3348790	20.83%	1.924%
41	17.368	2441	2445	2450	rVB2	150924	283524	1.76%	0.163%
42	17.586	2475	2482	2490	rBV	401935	729160	4.54%	0.419%
43	17.698	2497	2501	2507	rBV2	170069	277804	1.73%	0.160%
44	17.757	2507	2511	2518	rVB2	196799	330099	2.05%	0.190%
45	17.898	2531	2535	2544	rBV	115251	223023	1.39%	0.128%
46	18.051	2556	2561	2565	rBV	1058453	1548720	9.63%	0.890%
47	18.098	2565	2569	2576	rVB	1300888	1915993	11.92%	1.101%
48	18.180	2578	2583	2588	rBV	618768	912707	5.68%	0.524%
49	18.251	2588	2595	2599	rVV2	1924882	3486140	21.68%	2.003%
50	18.286	2599	2601	2607	rVB	700794	815863	5.07%	0.469%
51	18.557	2642	2647	2651	rBV	665627	903500	5.62%	0.519%
52	18.604	2651	2655	2659	rVB	299302	377648	2.35%	0.217%
53	18.798	2685	2688	2692	rVB	206324	240089	1.49%	0.138%
54	18.851	2693	2697	2700	rVV	276137	368743	2.29%	0.212%
55	18.886	2700	2703	2707	rVB	249154	319096	1.98%	0.183%
56	18.968	2712	2717	2722	rBV	668921	1172631	7.29%	0.674%
57	19.033	2724	2728	2731	rVV3	393047	687092	4.27%	0.395%
58	19.062	2731	2733	2737	rVB	254998	271524	1.69%	0.156%
59	19.115	2737	2742	2756	rVB4	332966	927695	5.77%	0.533%
60	19.245	2757	2764	2769	rBV	11488989	16076312	100.00%	9.235%
61	19.304	2770	2774	2776	rVV	171788	215056	1.34%	0.124%
62	19.339	2776	2780	2784	rVB	277737	349821	2.18%	0.201%
63	19.386	2785	2788	2792	rBV	179863	225414	1.40%	0.129%
64	19.480	2800	2804	2808	rBV	289002	463455	2.88%	0.266%
65	19.574	2814	2820	2822	rBV2	1764791	2923705	18.19%	1.679%
66	19.609	2822	2826	2833	rVV	10208495	13892005	86.41%	7.980%
67	19.674	2833	2837	2843	rVB	572599	829856	5.16%	0.477%
68	19.804	2852	2859	2863	rBV2	2984566	4094959	25.47%	2.352%
69	19.845	2863	2866	2872	rVB	361688	531425	3.31%	0.305%
70	19.921	2874	2879	2880	rBV	684993	913414	5.68%	0.525%
71	20.062	2898	2903	2904	rBV2	482049	755577	4.70%	0.434%

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
 Data File : BM020204.D
 Acq On : 08 May 2019 20:46
 Operator : JU/SJ
 Sample : K2641-09 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CL-02-050719-E

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:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

72	20.098	2905	2909	2914	rVB	2014698	2801321	17.43%	1.609%
73	20.198	2921	2926	2930	rBV	1828534	2303402	14.33%	1.323%
74	20.256	2930	2936	2940	rVV3	962634	1606728	9.99%	0.923%
75	20.292	2940	2942	2946	rVB	246408	262527	1.63%	0.151%
76	20.339	2946	2950	2955	rBV3	186432	315083	1.96%	0.181%
77	20.398	2956	2960	2963	rVV	618164	793338	4.93%	0.456%
78	20.439	2964	2967	2976	rVB	673190	1103176	6.86%	0.634%
79	20.804	3025	3029	3032	rBV3	331824	559348	3.48%	0.321%
80	20.845	3033	3036	3043	rVB2	458234	787505	4.90%	0.452%
81	21.015	3061	3065	3068	rBV	652905	849218	5.28%	0.488%
82	21.051	3068	3071	3075	rVV	844888	1109512	6.90%	0.637%
83	21.092	3075	3078	3083	rVB2	707529	981131	6.10%	0.564%
84	21.356	3117	3123	3128	rBV2	6396941	11446336	71.20%	6.575%
85	21.403	3128	3131	3140	rVB	5124400	6773720	42.13%	3.891%
86	21.521	3147	3151	3157	rBV	1132141	1468224	9.13%	0.843%
87	21.574	3157	3160	3165	rBV3	423648	517894	3.22%	0.297%
88	21.686	3175	3179	3183	rVB3	547906	828583	5.15%	0.476%
89	21.921	3217	3219	3224	rVB	879318	987495	6.14%	0.567%
90	22.080	3243	3246	3250	rVB2	458265	582166	3.62%	0.334%
91	22.121	3250	3253	3256	rBV	554240	652052	4.06%	0.375%
92	22.974	3392	3398	3403	rBV	3666370	8699175	54.11%	4.997%
93	23.145	3423	3427	3434	rVB	969300	1594115	9.92%	0.916%
94	23.468	3476	3482	3492	rVB	2097010	4225201	26.28%	2.427%
95	23.568	3493	3499	3508	rVV	4031470	7412429	46.11%	4.258%
96	23.668	3511	3516	3520	rVV	1171465	2373882	14.77%	1.364%
97	23.715	3521	3524	3531	rVB2	1101547	1953106	12.15%	1.122%
98	26.003	3907	3913	3926	rVB	1750640	4753574	29.57%	2.731%

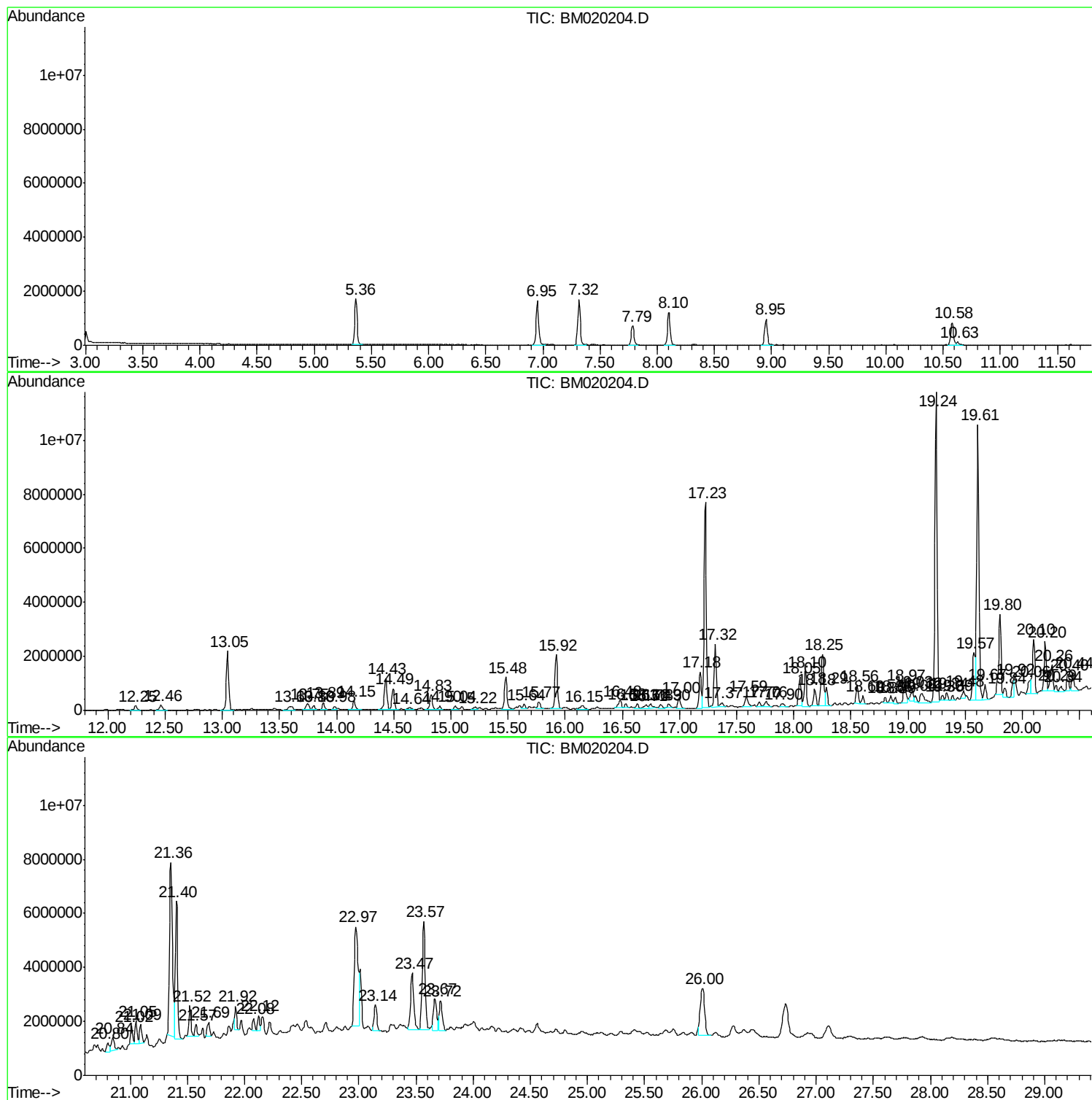
Sum of corrected areas: 174085624

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020204.D
Acq On : 08 May 2019 20:46
Operator : JU/SJ
Sample : K2641-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CL-02-050719-E

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020204.D
Acq On : 08 May 2019 20:46
Operator : JU/SJ
Sample : K2641-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CL-02-050719-E

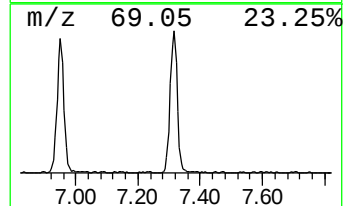
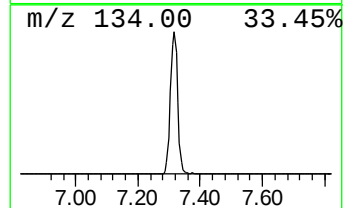
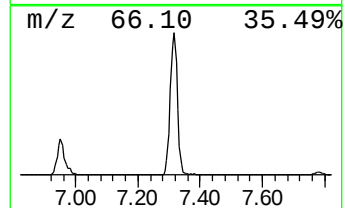
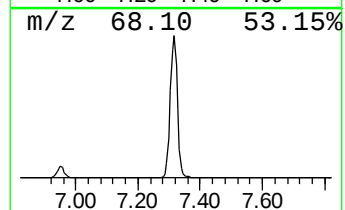
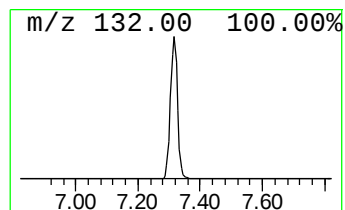
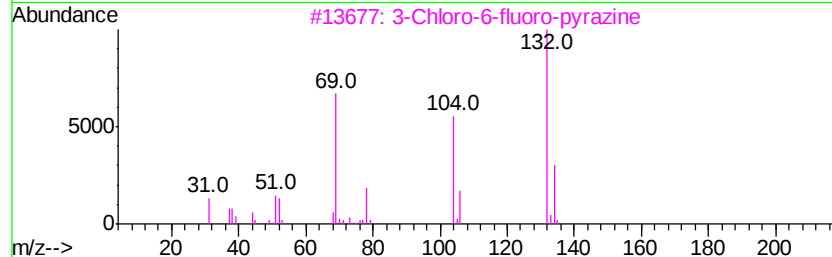
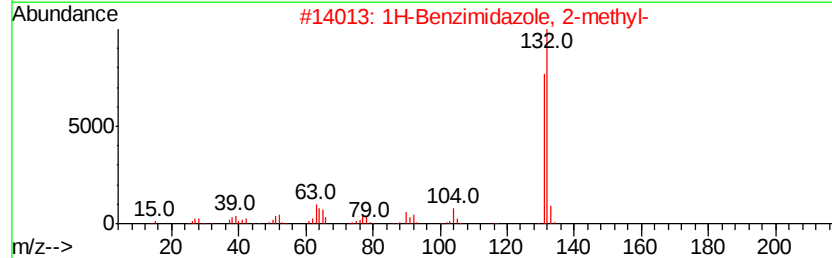
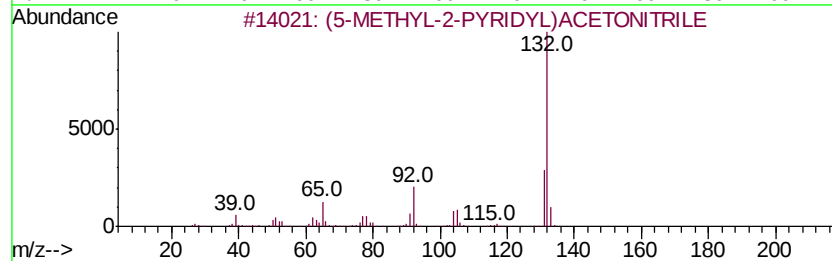
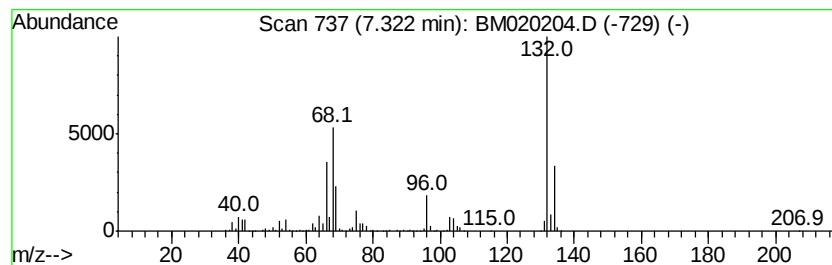
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 unknown7.32 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.32	46.09 ng	2702750	1,4-Dichlorobenzene-d4	7.79

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	(5-METHYL-2-PYRIDYL)ACETONITRILE	132	C8H8N2	1000241-93-9	22
2		1H-Benzimidazole, 2-methyl-	132	C8H8N2	000615-15-6	22
3		3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	16
4		5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	12
5		2-Cyclohexen-1-one	96	C6H8O	000930-68-7	11



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020204.D
Acq On : 08 May 2019 20:46
Operator : JU/SJ
Sample : K2641-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

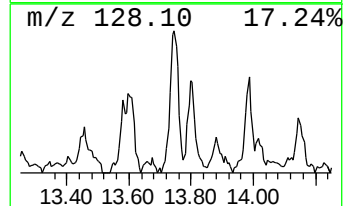
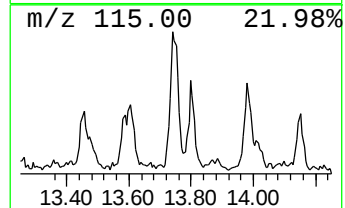
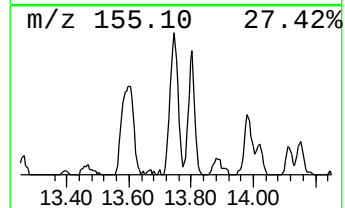
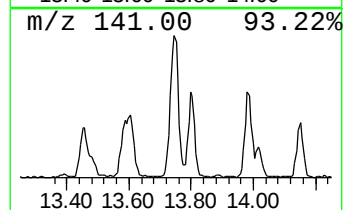
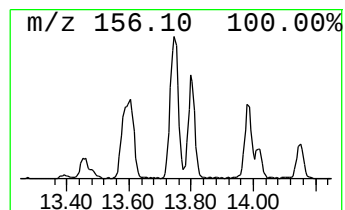
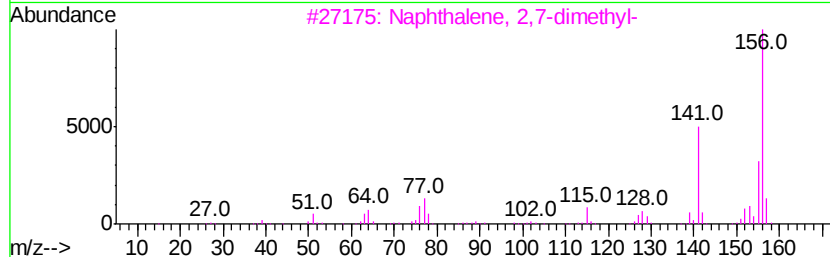
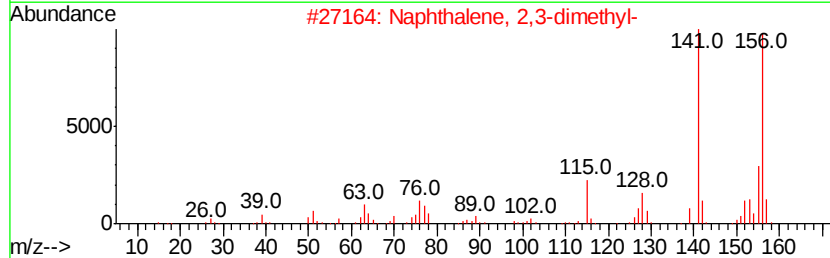
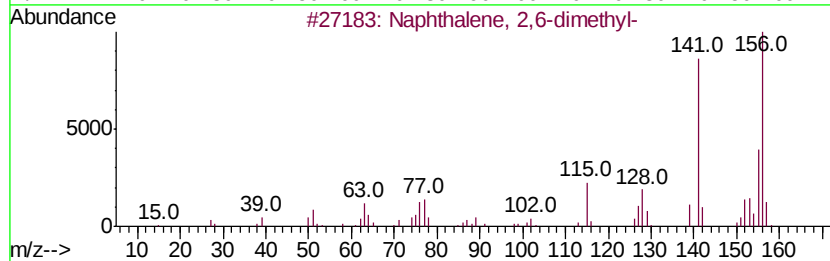
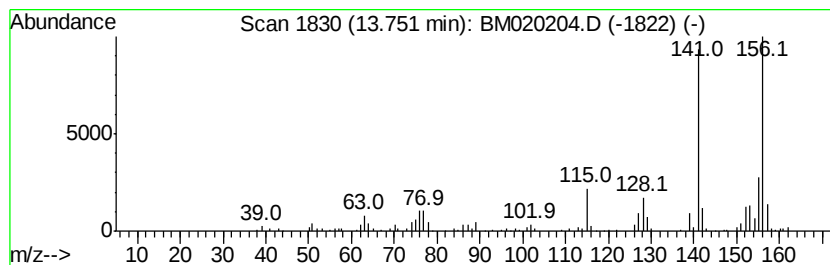
Instrument :
BNA_M
ClientSampleId :
CL-02-050719-E

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 3 Naphthalene, 2,6-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.75	4.41 ng	414956	Acenaphthene-d10	14.43
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		Naphthalene, 2,6-dimethyl-	156 C12H12	000581-42-0 98
2		Naphthalene, 2,3-dimethyl-	156 C12H12	000581-40-8 98
3		Naphthalene, 2,7-dimethyl-	156 C12H12	000582-16-1 97
4		Naphthalene, 1,7-dimethyl-	156 C12H12	000575-37-1 97
5		Naphthalene, 1,3-dimethyl-	156 C12H12	000575-41-7 97



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020204.D
Acq On : 08 May 2019 20:46
Operator : JU/SJ
Sample : K2641-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CL-02-050719-E

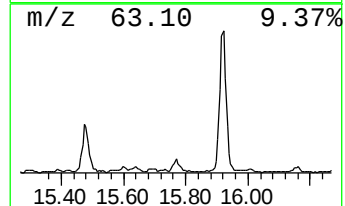
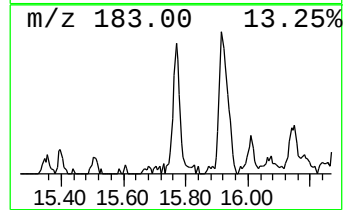
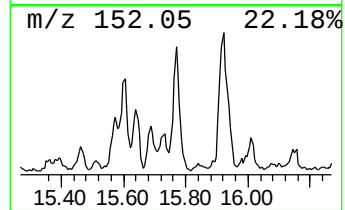
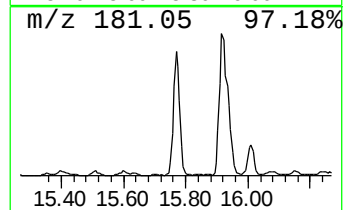
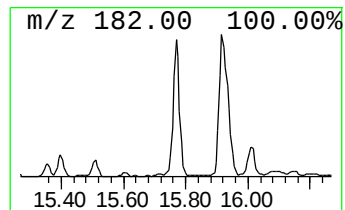
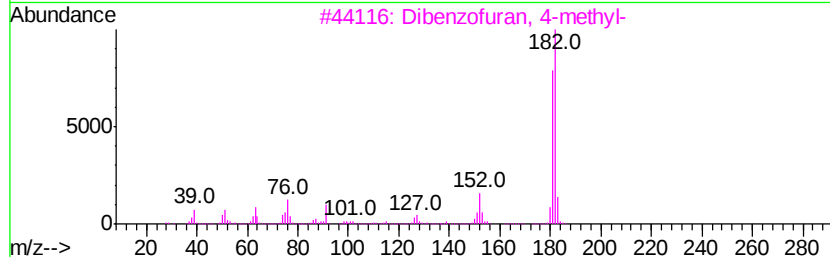
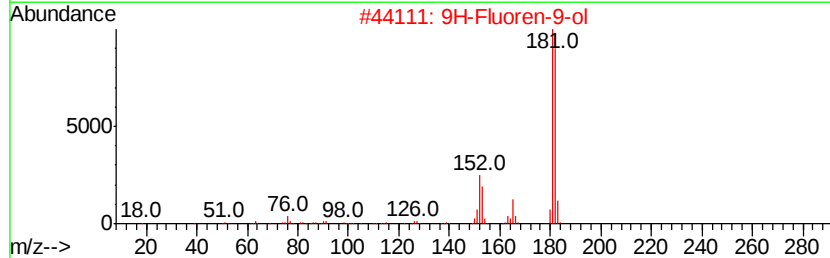
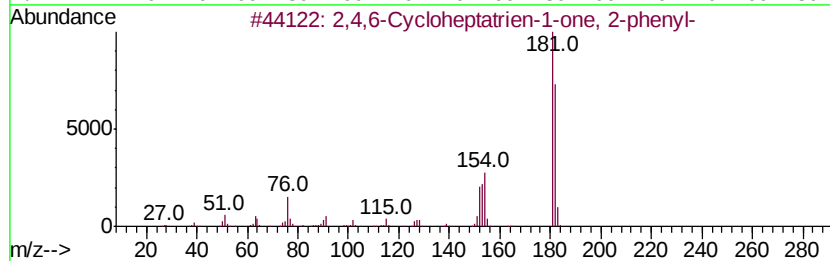
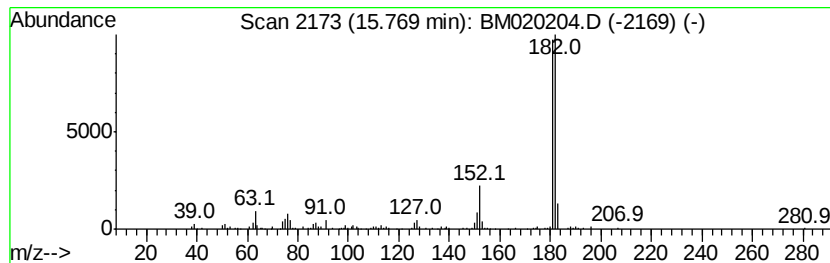
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 4 2,4,6-Cycloheptatrien-1-one... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.77	4.23 ng	397406	Acenaphthene-d10	14.43

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	90
2			9H-Fluoren-9-ol	182	C13H10O	001689-64-1	86
3			Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	86
4			[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	80
5			2-Hydroxyfluorene	182	C13H10O	002443-58-5	59



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020204.D
Acq On : 08 May 2019 20:46
Operator : JU/SJ
Sample : K2641-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CL-02-050719-E

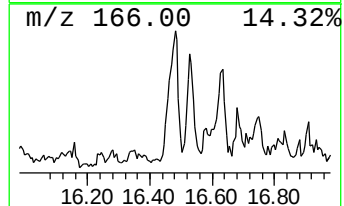
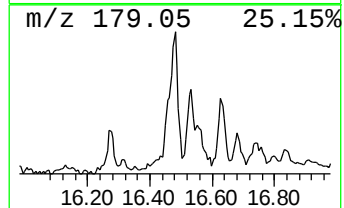
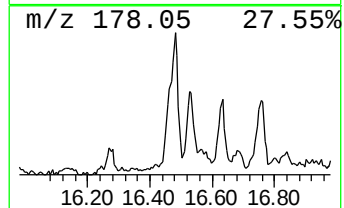
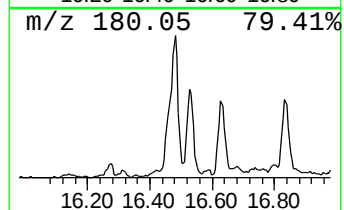
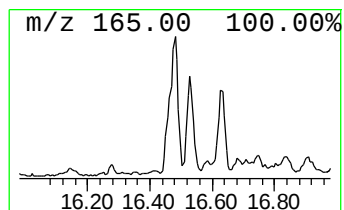
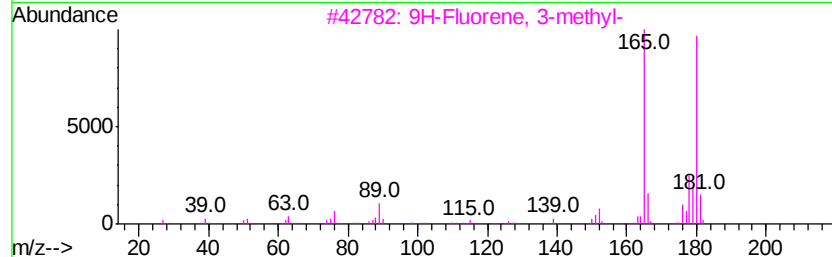
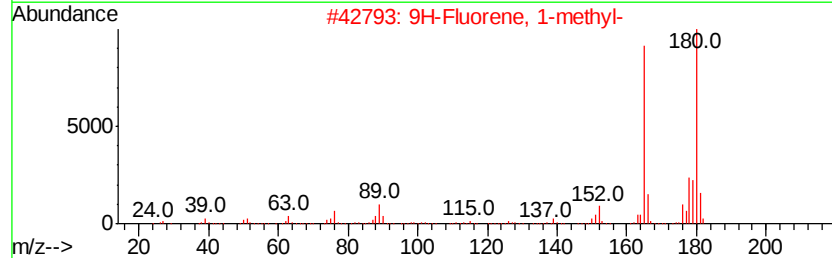
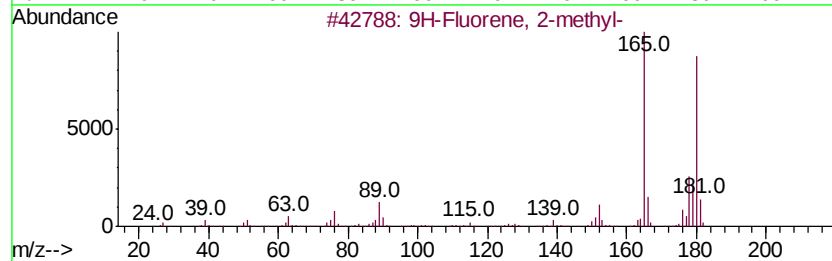
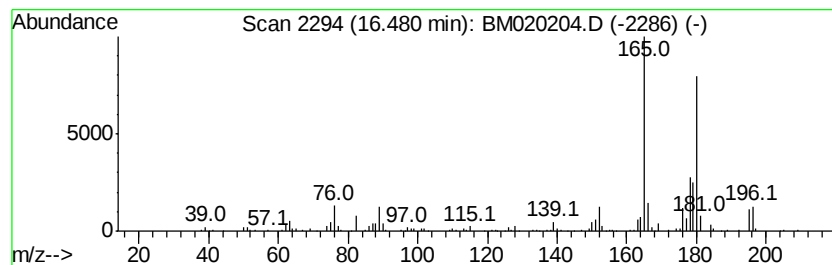
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 5 9H-Fluorene, 2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.48	5.23 ng	532398	Phenanthrene-d10	17.18

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	93
2		9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	90
3		9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	89
4		4a,9a-Methano-9H-fluorene	180	C14H12	019540-84-2	70
5		9H-Fluorene, 4-methyl-	180	C14H12	001556-99-6	68



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020204.D
Acq On : 08 May 2019 20:46
Operator : JU/SJ
Sample : K2641-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

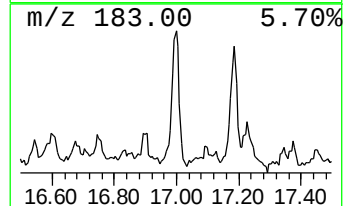
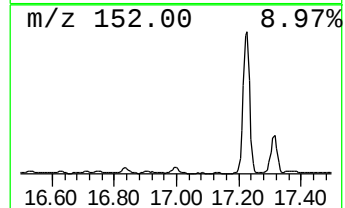
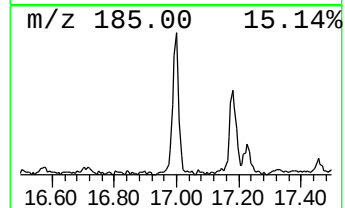
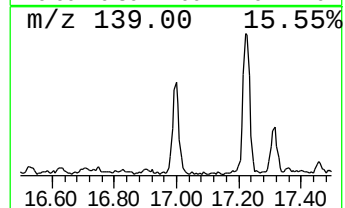
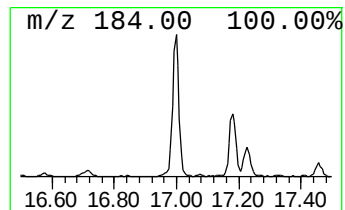
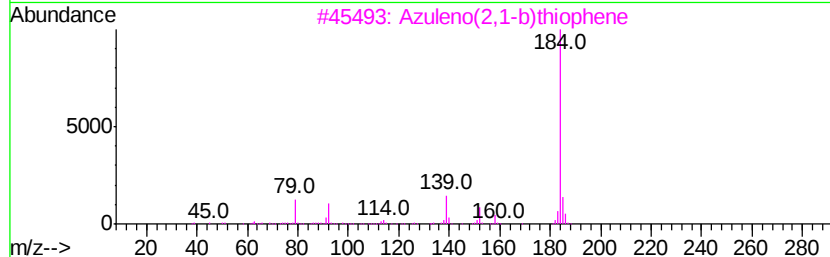
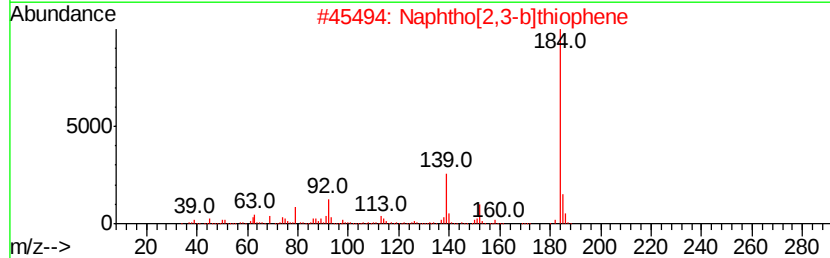
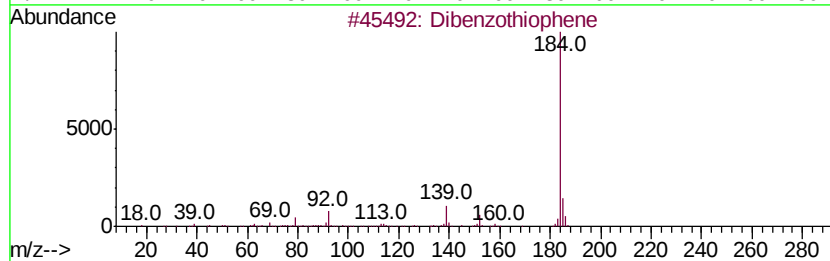
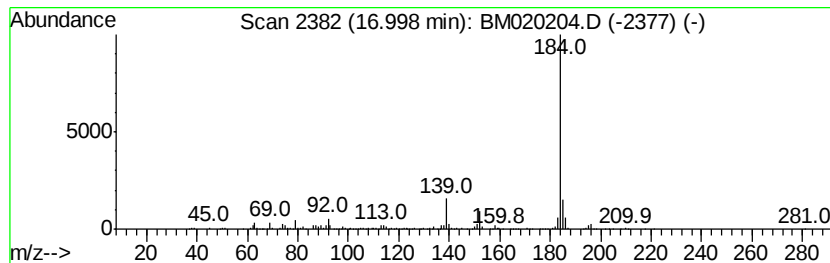
Instrument :
BNA_M
ClientSampleId :
CL-02-050719-E

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 Dibenzothiophene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.	
17.00	6.15 ng	626091	Phenanthrene-d10	17.18	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	95
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
3	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	87
4	Naphthalene, 2-ethenyl-6-methoxy-	184	C13H12O	063444-51-9	80
5	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	72



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020204.D
Acq On : 08 May 2019 20:46
Operator : JU/SJ
Sample : K2641-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

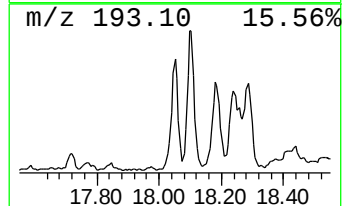
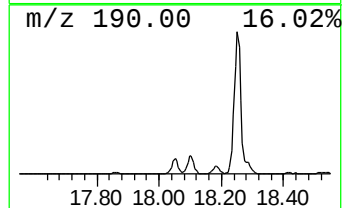
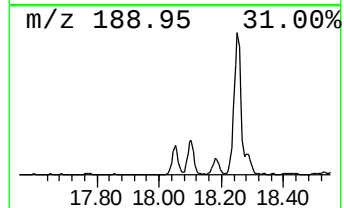
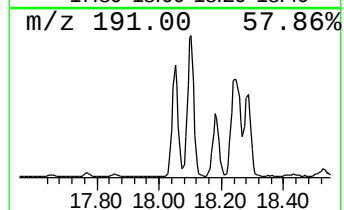
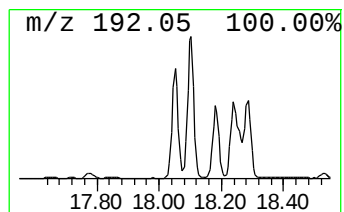
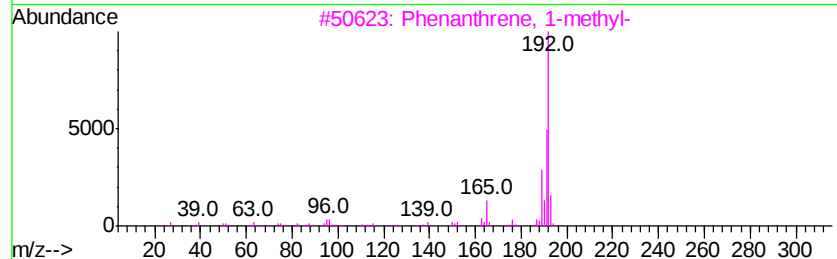
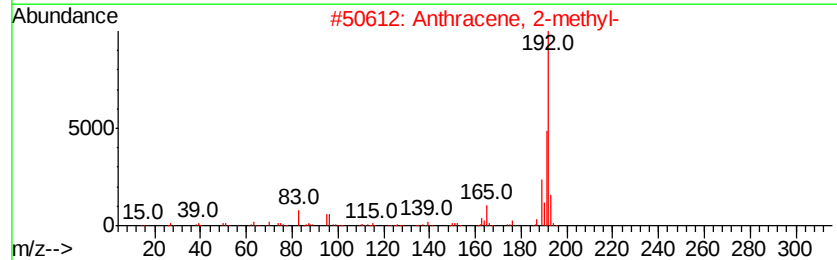
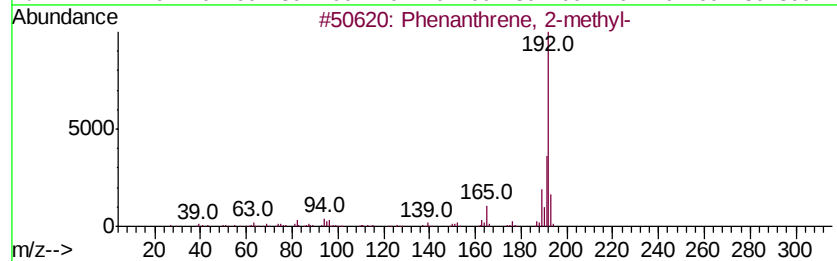
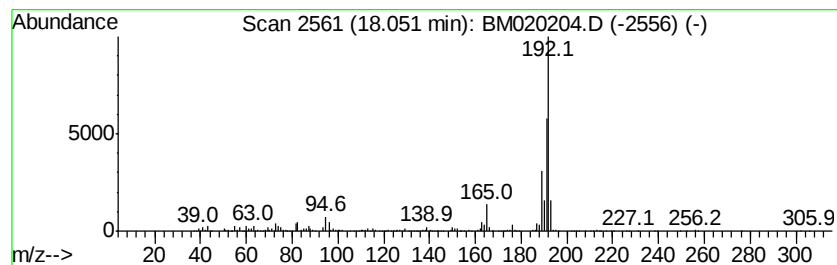
Instrument :
BNA_M
ClientSampleId :
CL-02-050719-E

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.	
18.05	15.22 ng	1548720	Phenanthrene-d10	17.18	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020204.D
Acq On : 08 May 2019 20:46
Operator : JU/SJ
Sample : K2641-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

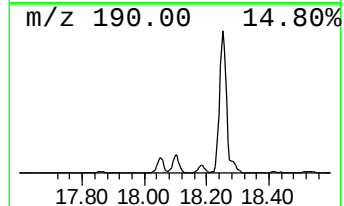
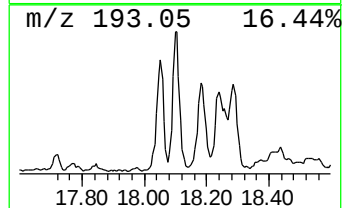
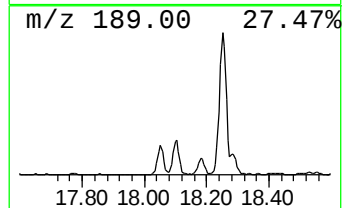
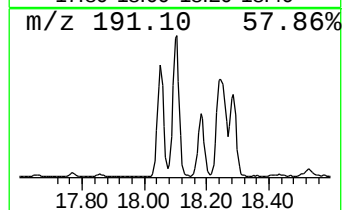
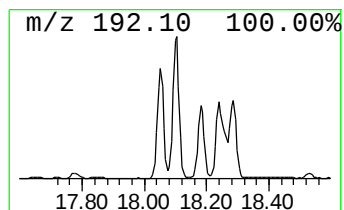
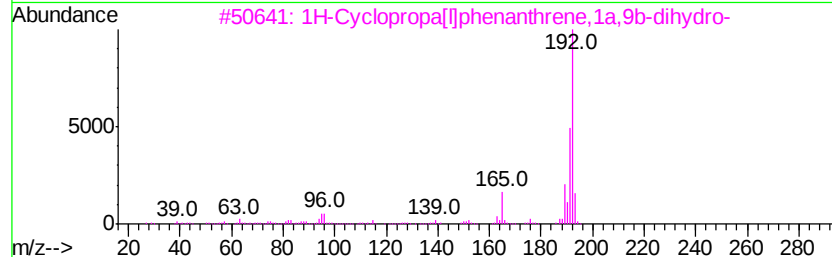
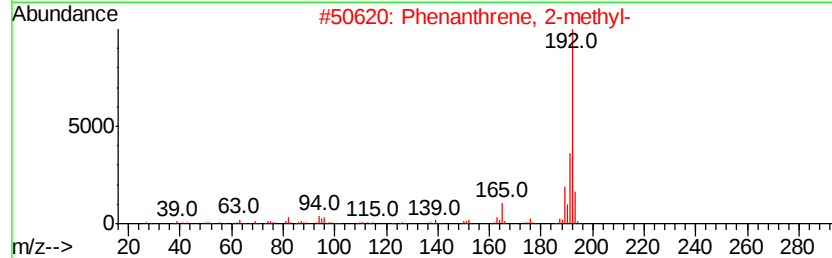
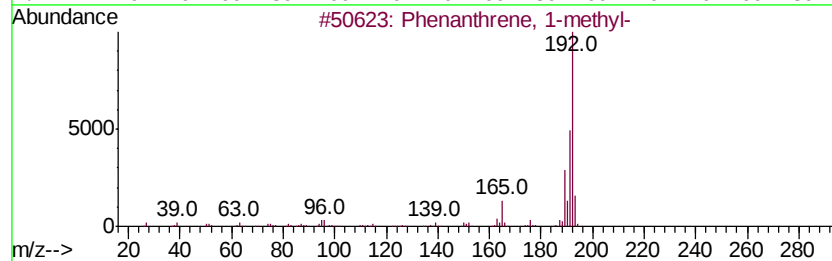
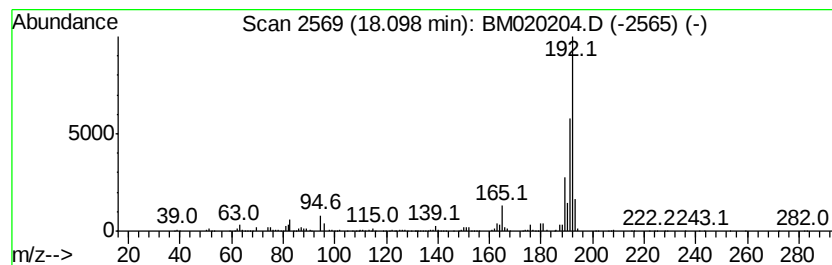
Instrument :
BNA_M
ClientSampleId :
CL-02-050719-E

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
18.10	18.83 ng	1915990	Phenanthrene-d10	17.18	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020204.D
Acq On : 08 May 2019 20:46
Operator : JU/SJ
Sample : K2641-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

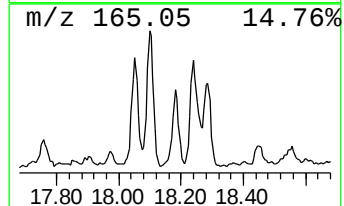
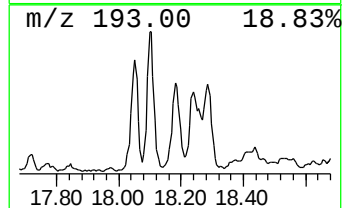
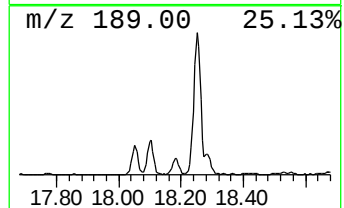
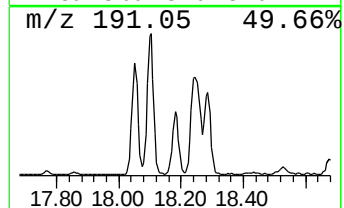
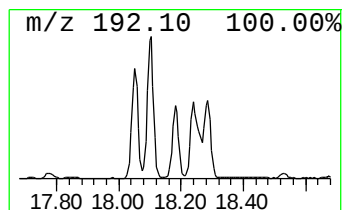
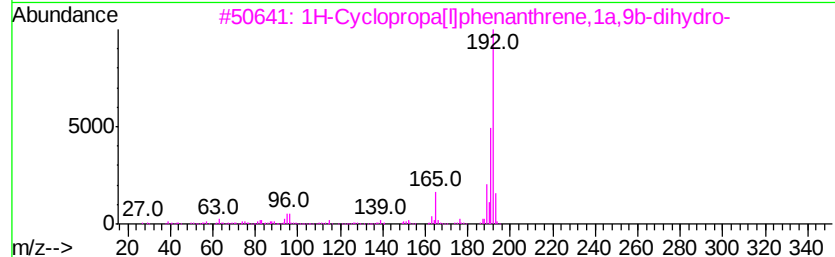
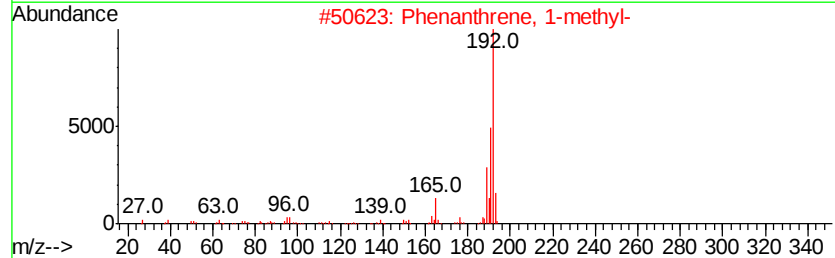
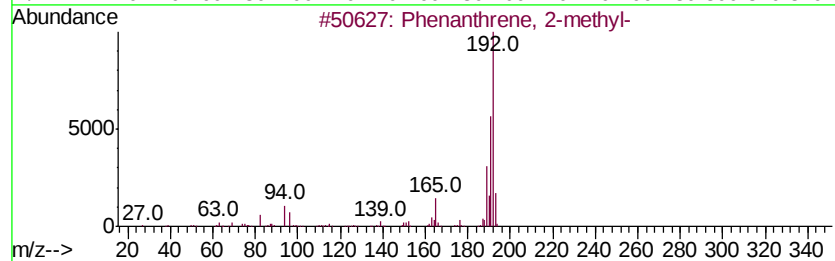
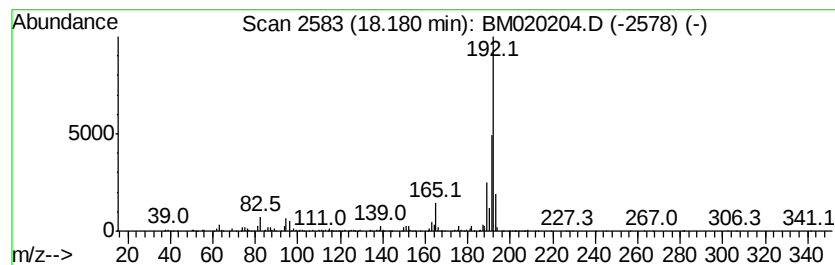
Instrument :
BNA_M
ClientSampleId :
CL-02-050719-E

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 1H-Cyclopropa[l]phenanthren... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.	
18.18	8.97 ng	912707	Phenanthrene-d10	17.18	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	1H-Cyclopropa[llphenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020204.D
Acq On : 08 May 2019 20:46
Operator : JU/SJ
Sample : K2641-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

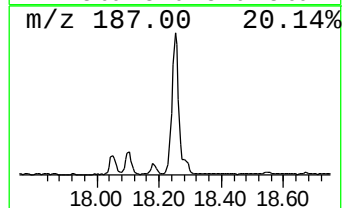
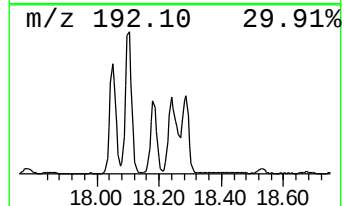
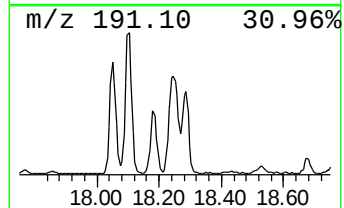
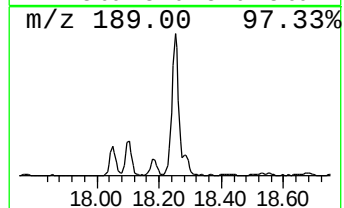
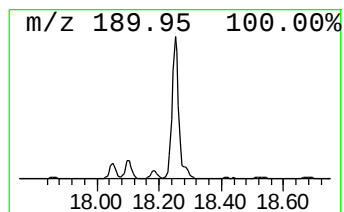
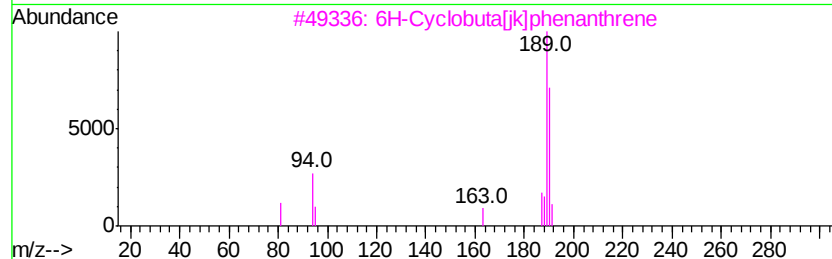
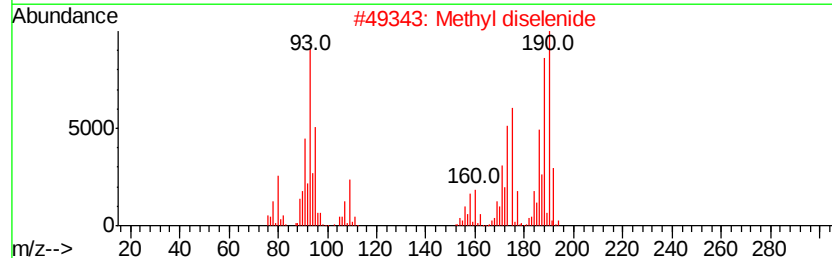
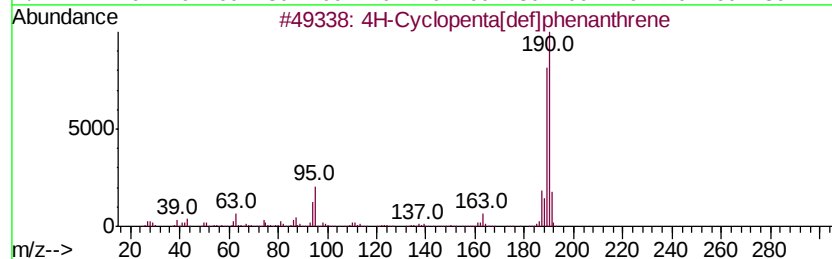
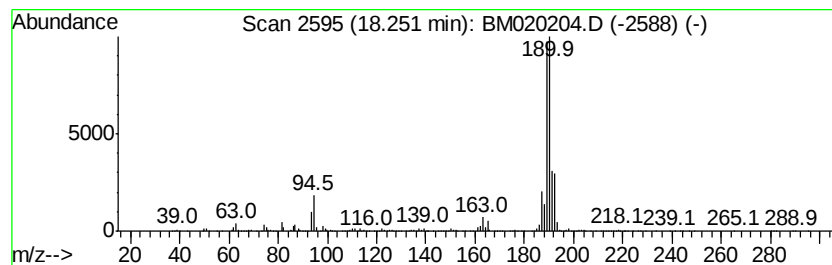
Instrument :
BNA_M
ClientSampleId :
CL-02-050719-E

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.	
18.25	34.27 ng	3486140	Phenanthrene-d10	17.18	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	Methyl diselenide	190	C2H6Se2	007101-31-7	60
3	6H-Cyclobuta[flk]phenanthrene	190	C15H10	083469-43-6	50
4	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	45
5	1,4-Naphthalenedione, 2,5-dihydr...	190	C10H6O4	004923-55-1	25



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020204.D
Acq On : 08 May 2019 20:46
Operator : JU/SJ
Sample : K2641-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

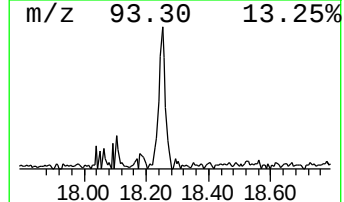
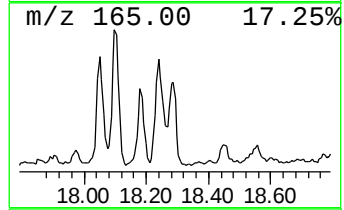
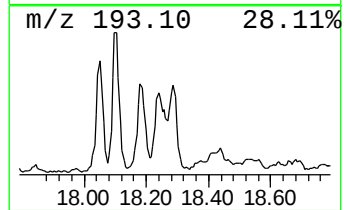
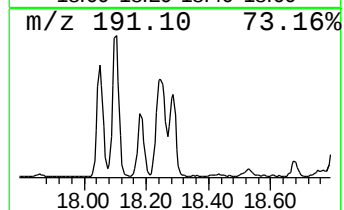
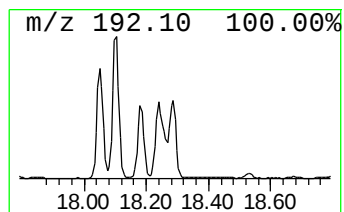
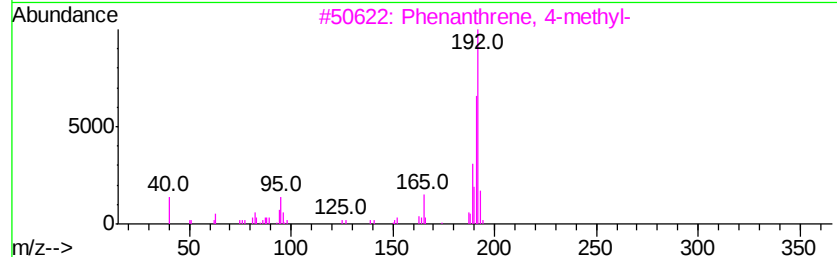
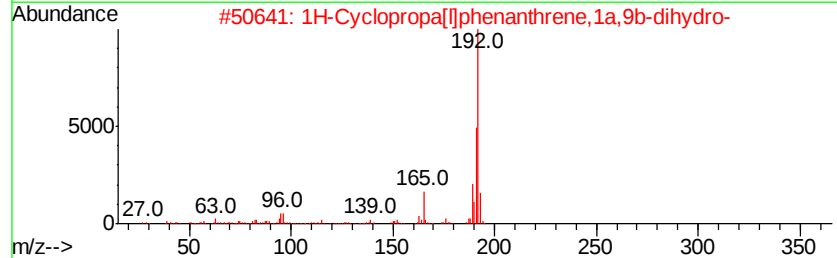
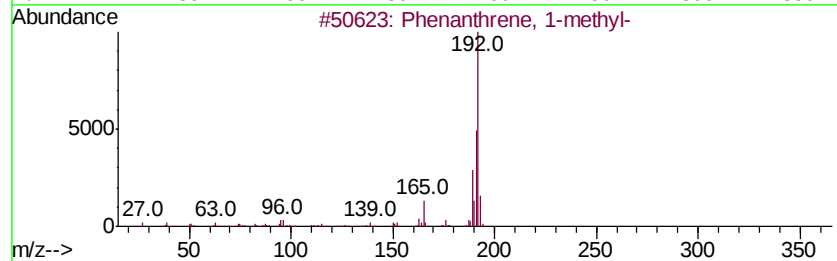
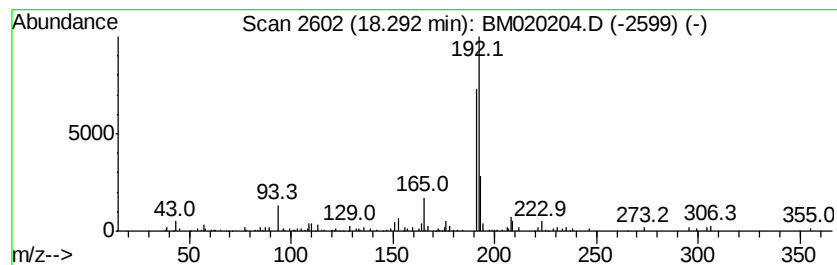
Instrument :
BNA_M
ClientSampleId :
CL-02-050719-E

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Phenanthrene, 4-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.	
18.29	8.02 ng	815863	Phenanthrene-d10	17.18	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
2	1H-Cyclopropa[1]phenanthrene,1a,...	192	C15H12	000949-41-7	93
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	90
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020204.D
Acq On : 08 May 2019 20:46
Operator : JU/SJ
Sample : K2641-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CL-02-050719-E

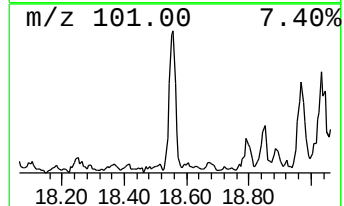
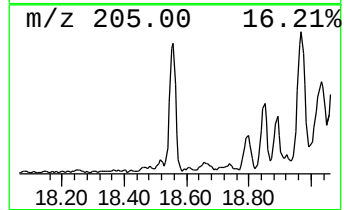
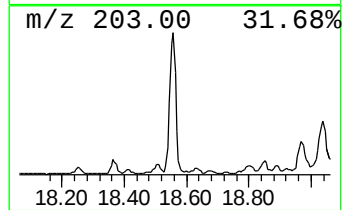
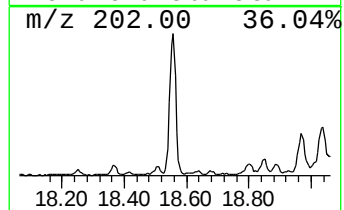
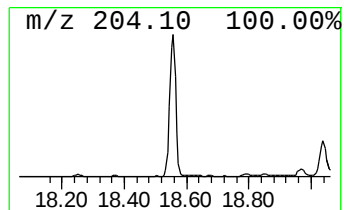
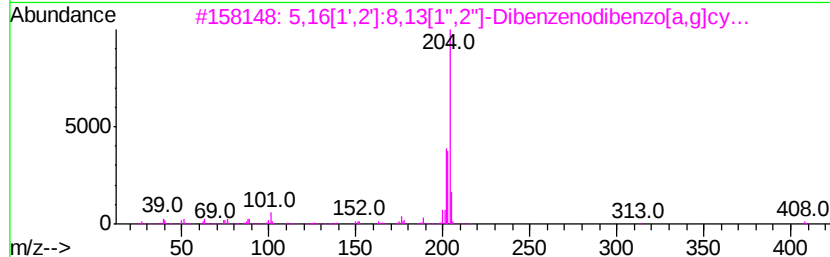
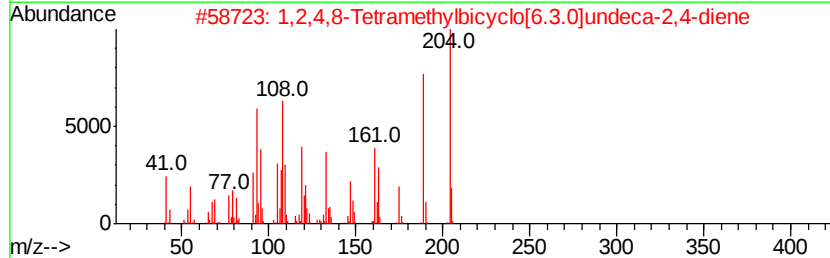
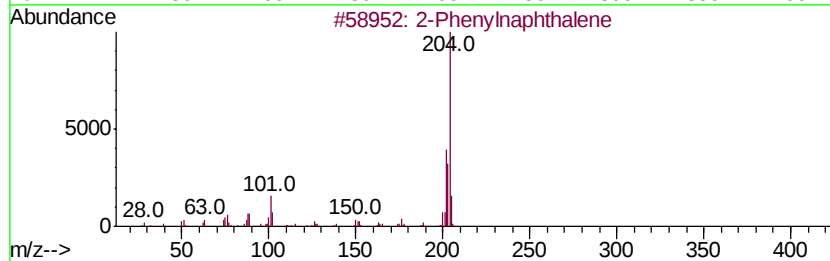
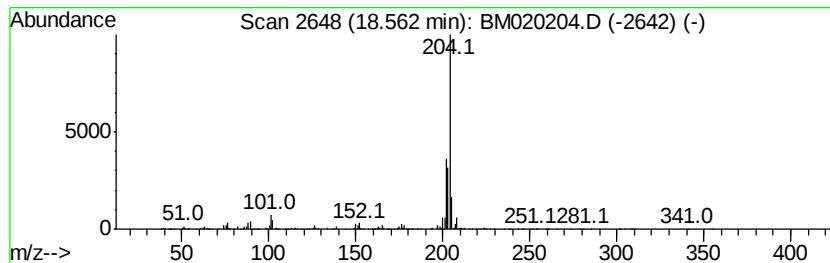
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 2-Phenylnaphthalene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.56	8.88 ng	903500	Phenanthrene-d10	17.18

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	2-Phenylnaphthalene	204	C16H12	035465-71-5	93
2		1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene	204	C15H24	137235-51-9	90
3		5,16[1',2']-8,13[1'',2'']-Dibenzo[a,g]cy...	408	C32H24	005672-97-9	90
4		Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76
5		Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	64



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020204.D
Acq On : 08 May 2019 20:46
Operator : JU/SJ
Sample : K2641-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CL-02-050719-E

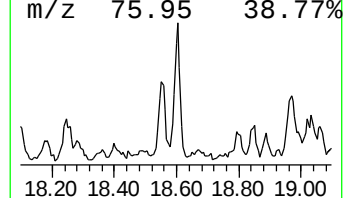
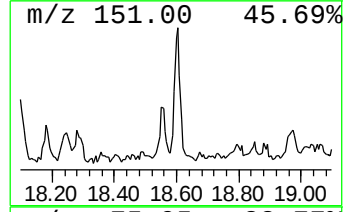
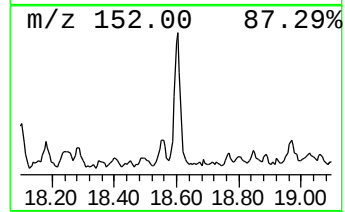
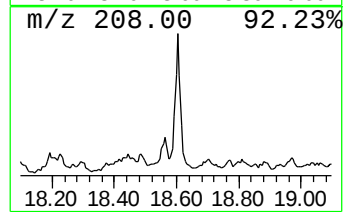
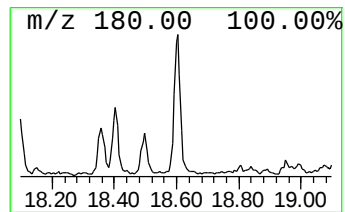
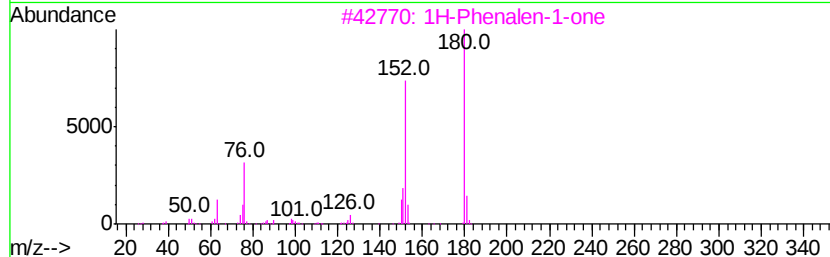
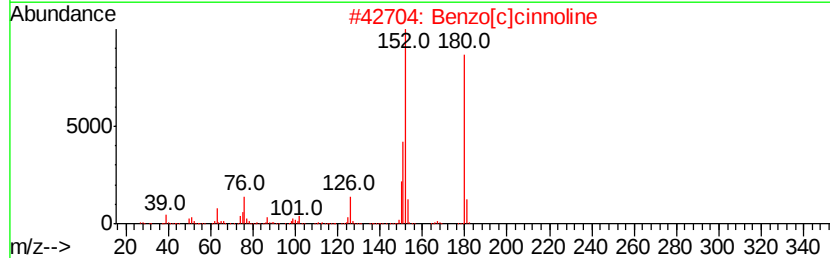
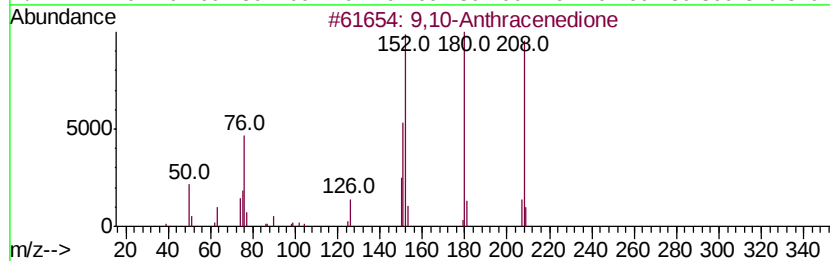
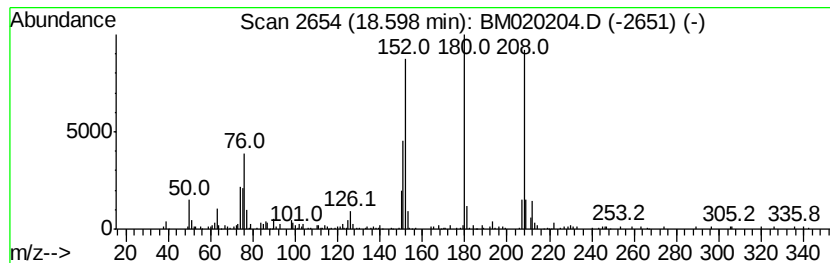
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 13 9,10-Anthracenedione Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.60	3.71 ng	377648	Phenanthrene-d10	17.18

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
2		Benzo[c]cinnoline	180	C12H8N2	000230-17-1	64
3		1H-Phenalen-1-one	180	C13H8O	000548-39-0	50
4		Benzo[ghi]cinnoline	180	C12H8N2	000230-31-9	45
5		9H-Fluoren-9-one	180	C13H8O	000486-25-9	43



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020204.D
Acq On : 08 May 2019 20:46
Operator : JU/SJ
Sample : K2641-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CL-02-050719-E

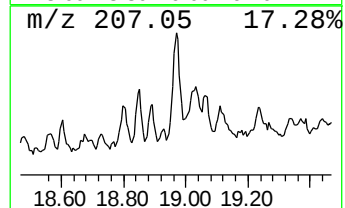
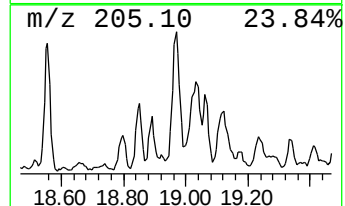
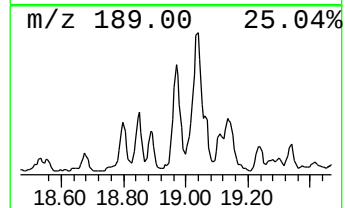
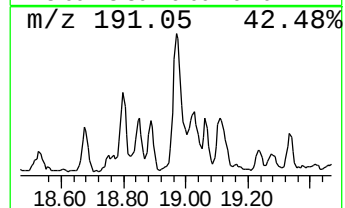
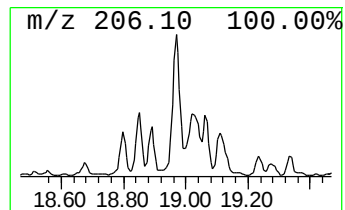
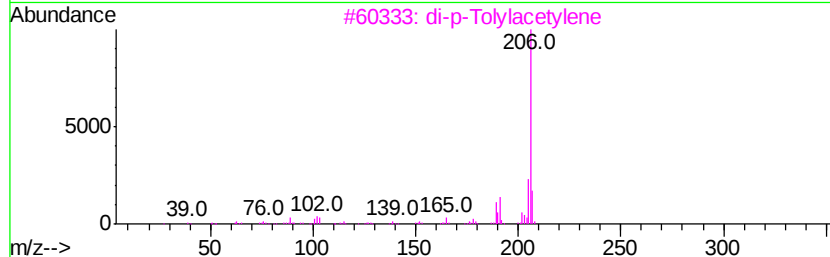
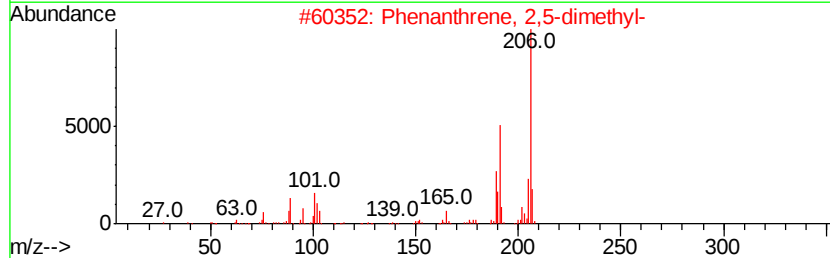
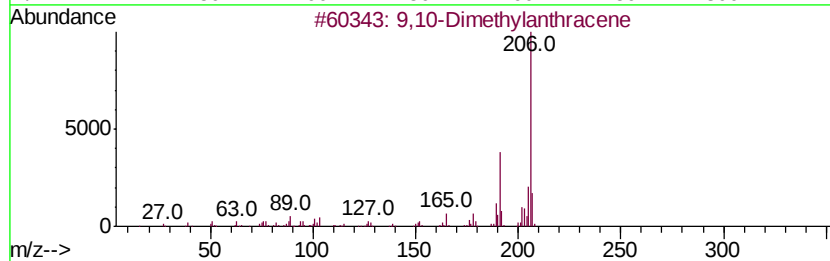
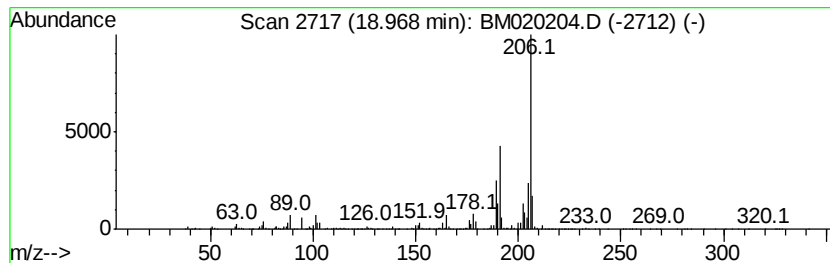
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 14 9,10-Dimethylantracene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.97	11.53 ng	1172630	Phenanthrene-d10	17.18

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			9,10-Dimethylantracene	206	C16H14	000781-43-1	93
2			Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
3			di-p-Tolylacetvlene	206	C16H14	002789-88-0	91
4			Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	90
5			Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020204.D
Acq On : 08 May 2019 20:46
Operator : JU/SJ
Sample : K2641-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CL-02-050719-E

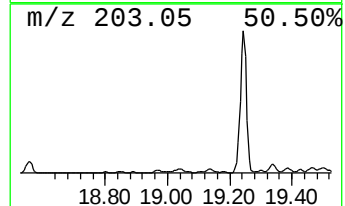
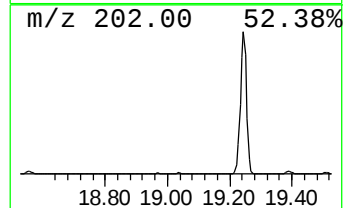
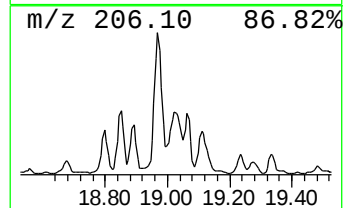
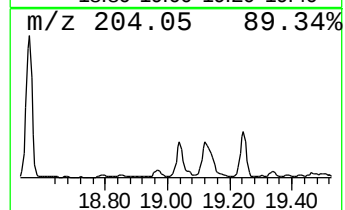
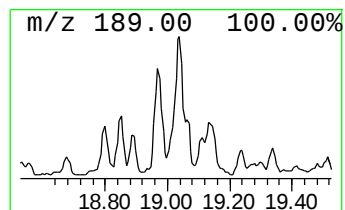
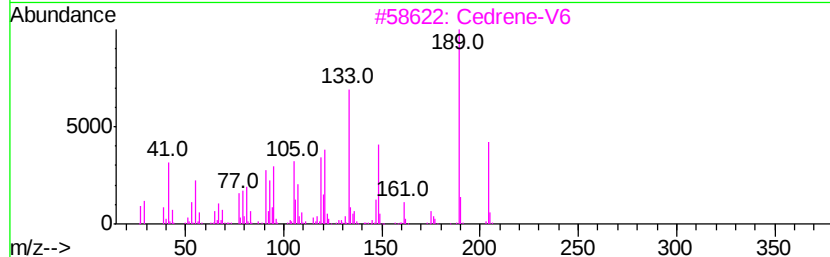
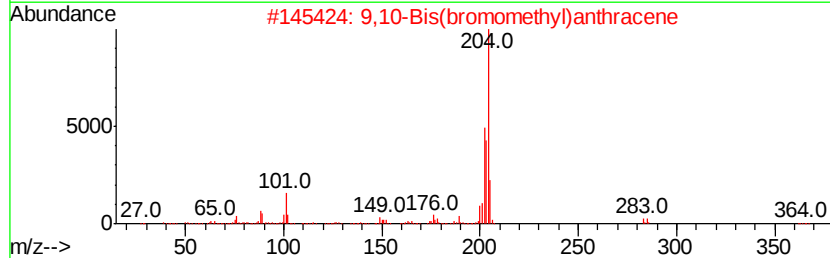
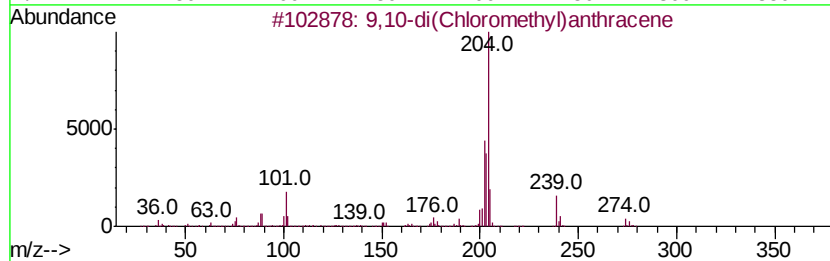
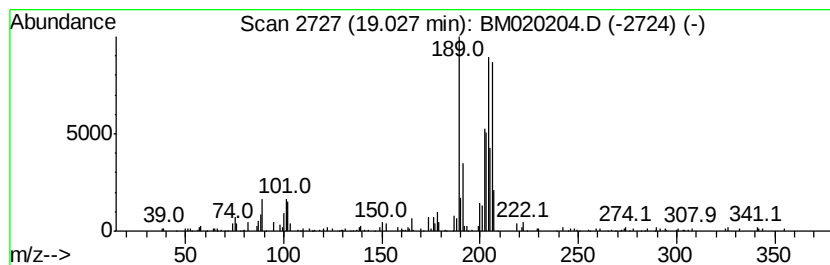
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 15 unknown19.03 Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.03	6.75 ng	687092	Phenanthrene-d10	17.18

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	49
2			9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	47
3			Cedrene-V6	204	C15H24	1000162-76-8	38
4			5,16[1',2']8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	38
5			Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	35



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020204.D
Acq On : 08 May 2019 20:46
Operator : JU/SJ
Sample : K2641-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CL-02-050719-E

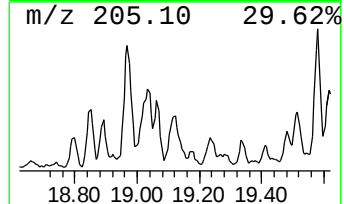
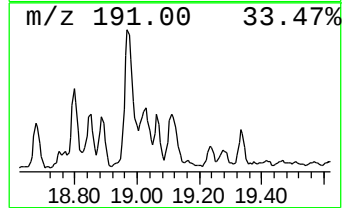
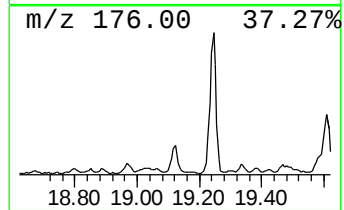
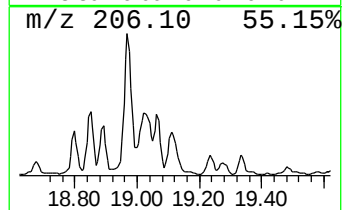
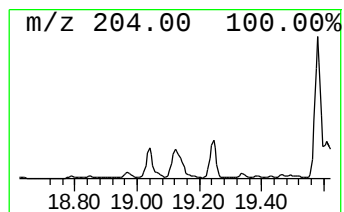
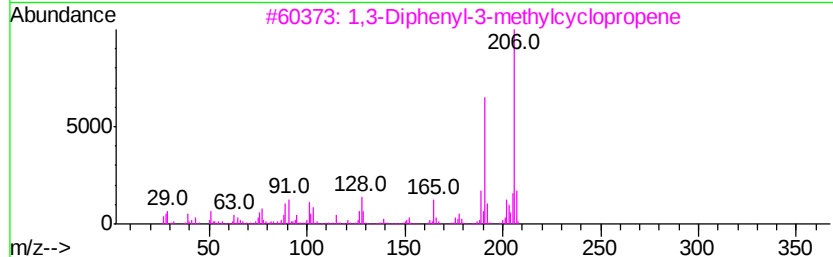
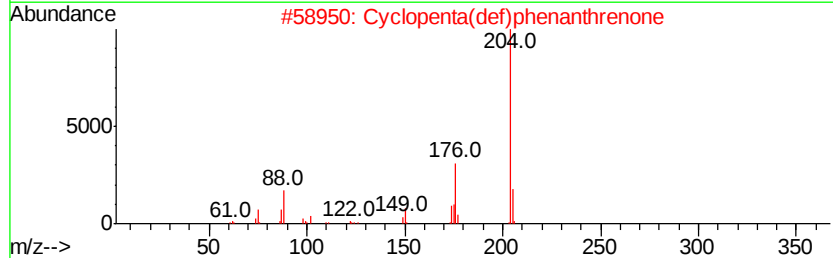
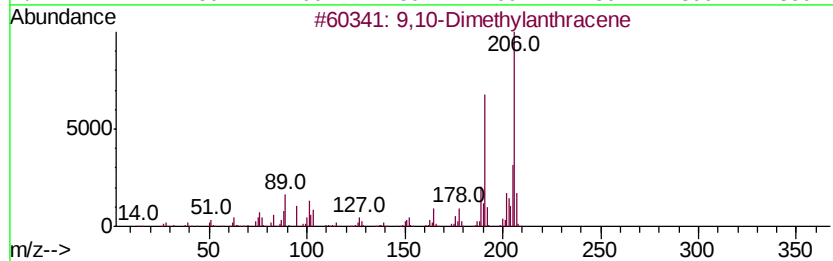
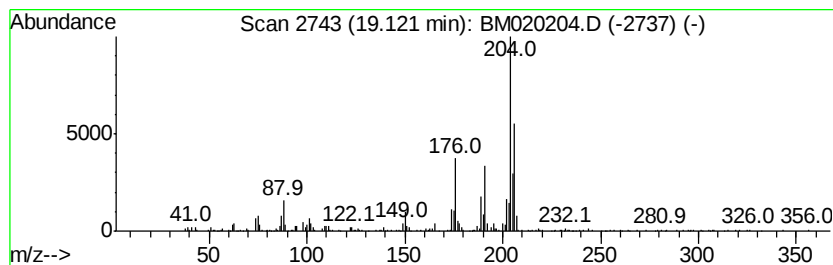
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 16 Cyclopenta(def)phenanthrenone Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.12	9.12 ng	927695	Phenanthrene-d10	17.18

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	9,10-Dimethylantracene	206	C16H14	000781-43-1	64
2		Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	52
3		1,3-Diphenyl-3-methylcyclopropene	206	C16H14	086544-79-8	50
4		1-Methyl-3-phenyl-1H-indene	206	C16H14	022360-62-9	45
5		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	45



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020204.D
Acq On : 08 May 2019 20:46
Operator : JU/SJ
Sample : K2641-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
CL-02-050719-E

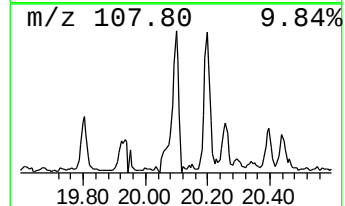
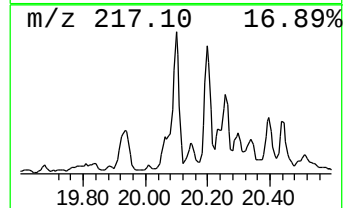
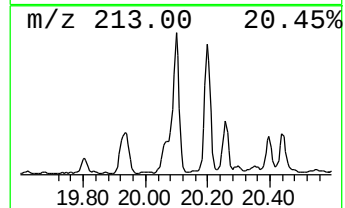
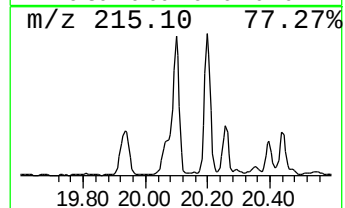
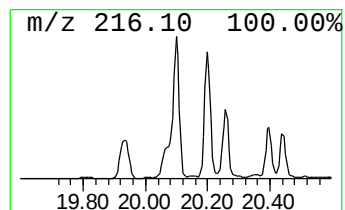
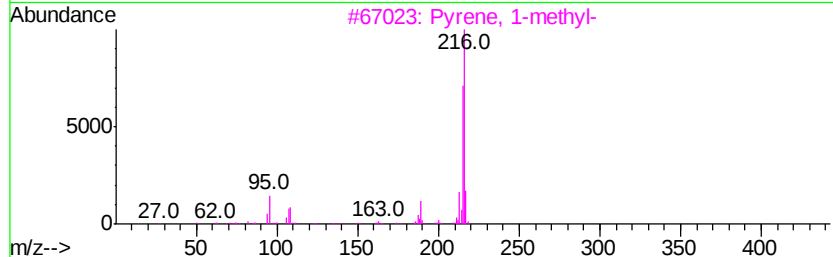
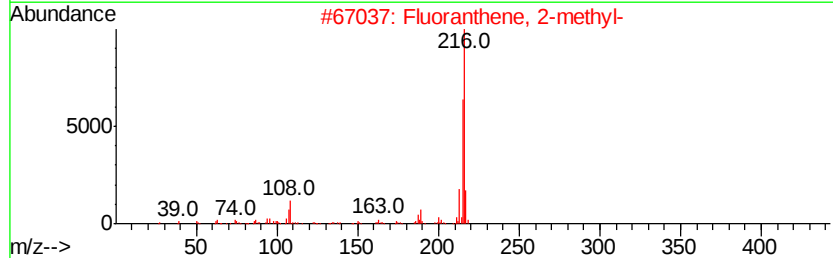
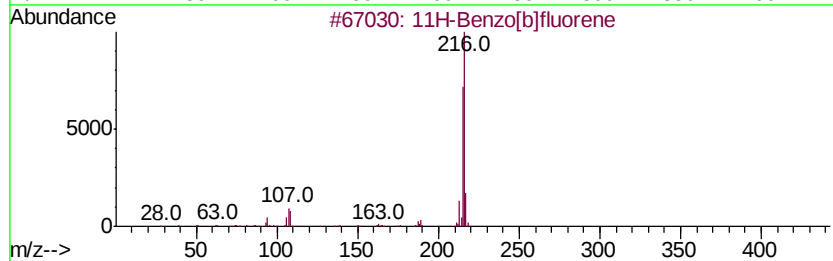
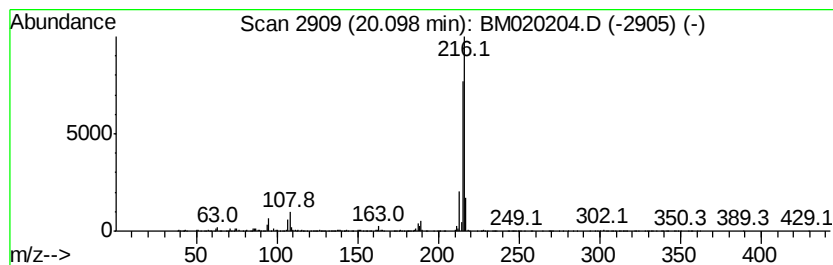
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 17 11H-Benzo[b]fluorene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.10	4.89 ng	2801320	Chrysene-d12	21.37

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2			Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
3			Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
4			11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5			7H-Benzo[c]fluorene	216	C17H12	000205-12-9	72



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050819\
Data File : BM020204.D
Acq On : 08 May 2019 20:46
Operator : JU/SJ
Sample : K2641-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

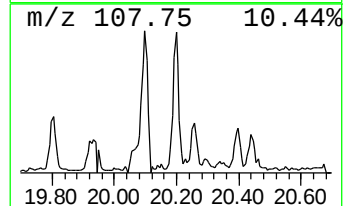
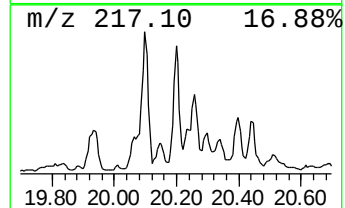
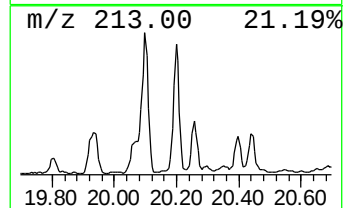
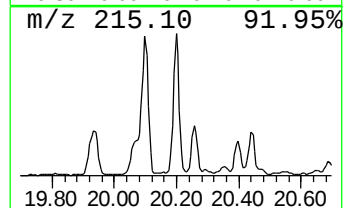
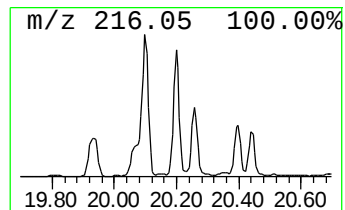
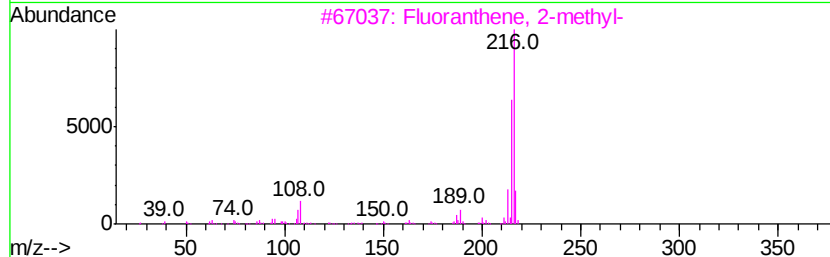
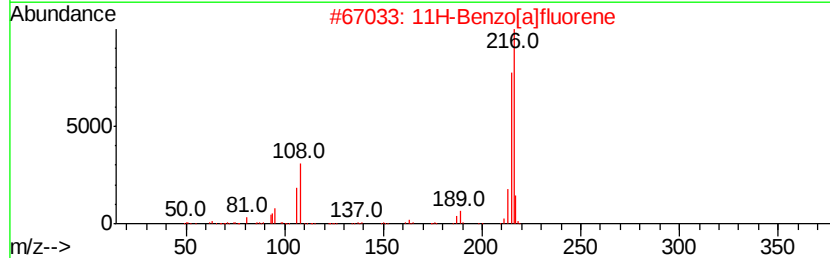
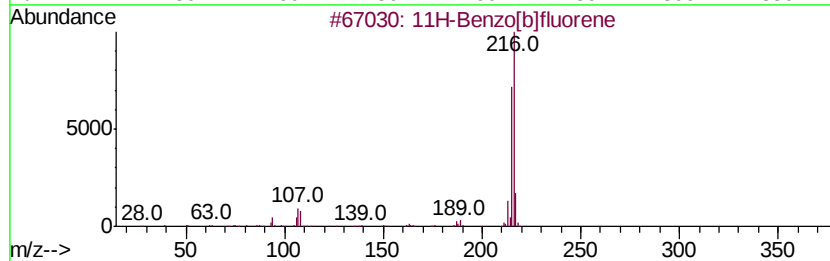
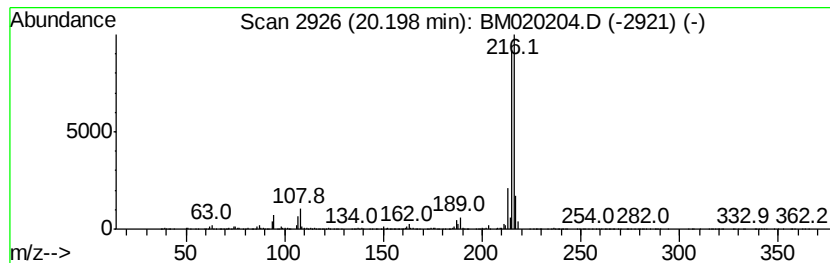
Instrument :
BNA_M
ClientSampleId :
CL-02-050719-E

Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 18 11H-Benzo[a]fluorene Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.20	4.02 ng	2303400	Chrysene-d12	21.37
Hit# of	5	Tentative ID	MW MolForm	CAS# Qual
1		11H-Benzo[b]fluorene	216 C17H12	000243-17-4 94
2		11H-Benzo[a]fluorene	216 C17H12	000238-84-6 93
3		Fluoranthene, 2-methyl-	216 C17H12	033543-31-6 70
4		7H-Benzo[c]fluorene	216 C17H12	000205-12-9 64
5		Pyrene, 2-methyl-	216 C17H12	003442-78-2 64



Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM050819\
 Data File : BM020204.D
 Acq On : 08 May 2019 20:46
 Operator : JU/SJ
 Sample : K2641-09 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 CL-02-050719-E

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM043019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
unknown7.32	7.32	46.1	ng	2702750	1	7.79	1172910	20.0
Naphthalene, 2,6-...	13.75	4.4	ng	414956	3	14.43	1879960	20.0
2,4,6-Cycloheptat...	15.77	4.2	ng	397406	3	14.43	1879960	20.0
9H-Fluorene, 2-me...	16.48	5.2	ng	532398	4	17.18	2034760	20.0
Dibenzothiophene	17.00	6.2	ng	626091	4	17.18	2034760	20.0
Phenanthrene, 2-m...	18.05	15.2	ng	1548720	4	17.18	2034760	20.0
Phenanthrene, 1-m...	18.10	18.8	ng	1915990	4	17.18	2034760	20.0
1H-Cyclopropa[1]p...	18.18	9.0	ng	912707	4	17.18	2034760	20.0
4H-Cyclopenta[def...	18.25	34.3	ng	3486140	4	17.18	2034760	20.0
Phenanthrene, 4-m...	18.29	8.0	ng	815863	4	17.18	2034760	20.0
2-Phenylnaphthalene	18.56	8.9	ng	903500	4	17.18	2034760	20.0
9,10-Anthracenedione	18.60	3.7	ng	377648	4	17.18	2034760	20.0
9,10-Dimethylanth...	18.97	11.5	ng	1172630	4	17.18	2034760	20.0
unknown19.03	19.03	6.8	ng	687092	4	17.18	2034760	20.0
Cyclopenta(def)ph...	19.12	9.1	ng	927695	4	17.18	2034760	20.0
11H-Benzo[b]fluorene	20.10	4.9	ng	2801320	5	21.37	11446300	20.0
11H-Benzo[a]fluorene	20.20	4.0	ng	2303400	5	21.37	11446300	20.0