

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM080718\
 Data File : BM016238.D
 Acq On : 08 Aug 2018 04:08
 Operator : SJ/JU
 Sample : J4310-03 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C-2

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-BM072318.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	5.663	399	404	421	rBV	110260	204533	8.07%	0.888%
2	7.304	677	683	696	rBV	137874	251684	9.93%	1.093%
3	7.663	738	744	758	rBV	156665	270439	10.67%	1.175%
4	8.134	818	824	835	rBB	246753	391347	15.44%	1.700%
5	8.457	873	879	889	rBB	99493	160934	6.35%	0.699%
6	9.328	1021	1027	1038	rBV	64997	119981	4.73%	0.521%
7	10.951	1297	1303	1309	rBV	321766	536539	21.17%	2.330%
8	11.004	1309	1312	1319	rVB3	24156	37008	1.46%	0.161%
9	13.392	1712	1718	1726	rVB	196861	279206	11.01%	1.213%
10	14.775	1944	1953	1959	rBV3	425998	667968	26.35%	2.901%
11	14.833	1959	1963	1970	rVB	59766	85509	3.37%	0.371%
12	15.169	2015	2020	2027	rBB	32536	47737	1.88%	0.207%
13	15.816	2124	2130	2139	rVB	70177	97935	3.86%	0.425%
14	16.257	2200	2205	2212	rBV2	207048	307624	12.14%	1.336%
15	17.174	2355	2361	2366	rBV2	34636	47672	1.88%	0.207%
16	17.327	2383	2387	2394	rVB	52054	70844	2.79%	0.308%
17	17.510	2411	2418	2421	rBV	594469	842495	33.24%	3.659%
18	17.551	2421	2425	2432	rVV	1150899	1563875	61.69%	6.792%
19	17.639	2432	2440	2448	rVV	254997	361517	14.26%	1.570%
20	17.916	2480	2487	2498	rBV	87681	154910	6.11%	0.673%
21	18.086	2511	2516	2524	rVB5	17605	30990	1.22%	0.135%
22	18.374	2557	2565	2569	rBV	120499	209480	8.26%	0.910%
23	18.421	2569	2573	2579	rVB	160613	224231	8.85%	0.974%
24	18.504	2581	2587	2592	rBV	53786	77328	3.05%	0.336%
25	18.568	2592	2598	2602	rBV2	158075	306759	12.10%	1.332%
26	18.604	2602	2604	2608	rVB	70687	76476	3.02%	0.332%
27	18.862	2643	2648	2654	rBV	101430	142342	5.62%	0.618%
28	18.927	2654	2659	2665	rVB2	94089	128612	5.07%	0.559%
29	19.104	2682	2689	2694	rBV3	35395	65812	2.60%	0.286%
30	19.157	2694	2698	2701	rVB	28176	31909	1.26%	0.139%
31	19.198	2701	2705	2710	rVB3	21834	30121	1.19%	0.131%
32	19.274	2712	2718	2722	rBV	69237	117592	4.64%	0.511%
33	19.333	2723	2728	2732	rBV4	32356	61384	2.42%	0.267%
34	19.433	2737	2745	2751	rVB3	57019	119008	4.69%	0.517%

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35	19.545	2757	2764	2770	rBV	2017126	2534852	100.00%	11.010%
36	19.633	2777	2779	2785	rVB3	35471	50643	2.00%	0.220%
37	19.786	2801	2805	2813	rVB	53619	107798	4.25%	0.468%
38	19.868	2814	2819	2821	rBV2	257308	383025	15.11%	1.664%
39	19.904	2821	2825	2831	rVV	1493914	1883455	74.30%	8.180%
40	19.968	2832	2836	2841	rVB	73166	106325	4.19%	0.462%
41	20.086	2851	2856	2860	rVB2	472404	613538	24.20%	2.665%
42	20.151	2863	2867	2872	rVB	47602	76319	3.01%	0.331%
43	20.215	2872	2878	2885	rBV3	94876	228610	9.02%	0.993%
44	20.286	2886	2890	2895	rBV	35942	55987	2.21%	0.243%
45	20.362	2895	2903	2904	rBV4	81275	162013	6.39%	0.704%
46	20.386	2904	2907	2913	rVB	180319	249575	9.85%	1.084%
47	20.486	2920	2924	2927	rBV	130325	164223	6.48%	0.713%
48	20.545	2927	2934	2937	rVV3	95868	176927	6.98%	0.768%
49	20.621	2943	2947	2950	rVB6	29420	39648	1.56%	0.172%
50	20.680	2954	2957	2961	rBV	67726	88702	3.50%	0.385%
51	20.727	2962	2965	2969	rVB2	54539	73559	2.90%	0.319%
52	21.133	3030	3034	3038	rBV	129907	170703	6.73%	0.741%
53	21.286	3056	3060	3064	rBV2	168973	272831	10.76%	1.185%
54	21.321	3064	3066	3070	rVV	138392	158059	6.24%	0.686%
55	21.368	3071	3074	3078	rVV2	117152	191568	7.56%	0.832%
56	21.427	3081	3084	3092	rVB	136166	177242	6.99%	0.770%
57	21.633	3113	3119	3123	rBV3	1179593	2304690	90.92%	10.010%
58	21.674	3123	3126	3131	rVB	747986	938965	37.04%	4.078%
59	21.798	3144	3147	3151	rVB	86703	97908	3.86%	0.425%
60	21.962	3172	3175	3181	rVB2	94852	142160	5.61%	0.617%
61	22.203	3213	3216	3220	rVB	106768	124388	4.91%	0.540%
62	23.274	3392	3398	3403	rBV	533144	1208244	47.67%	5.248%
63	23.774	3478	3483	3493	rVB	313841	617982	24.38%	2.684%
64	23.880	3495	3501	3510	rVB	390078	740794	29.22%	3.217%
65	23.980	3512	3518	3523	rBV	399610	761642	30.05%	3.308%

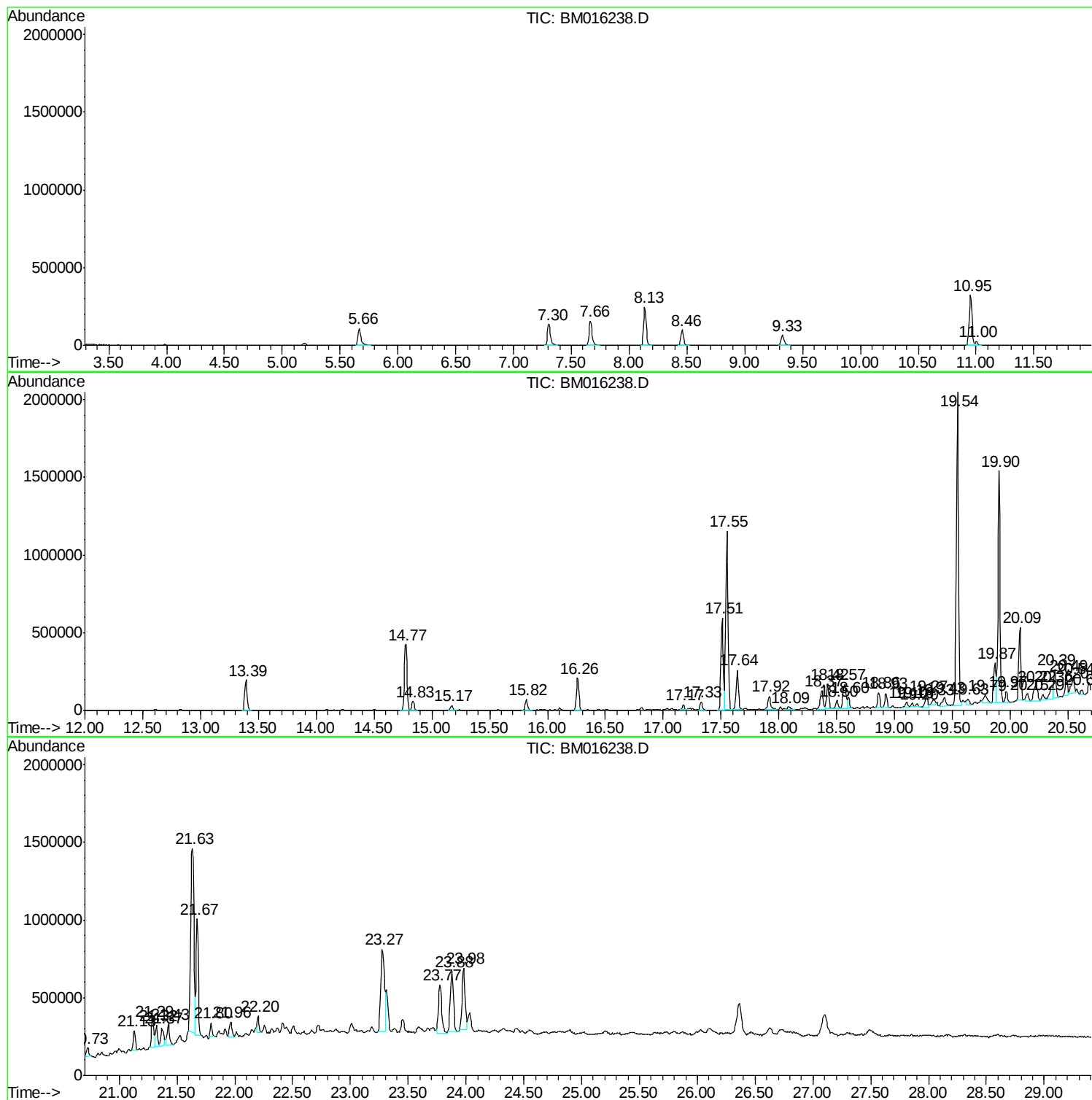
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



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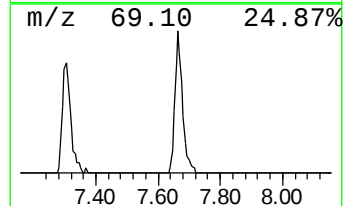
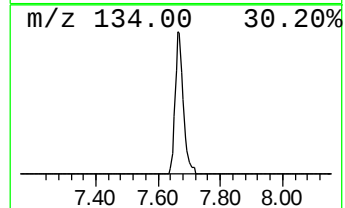
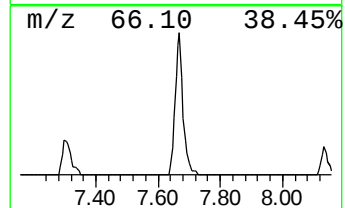
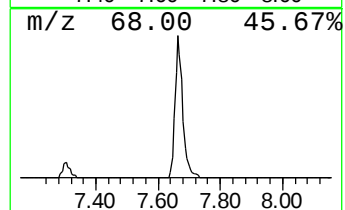
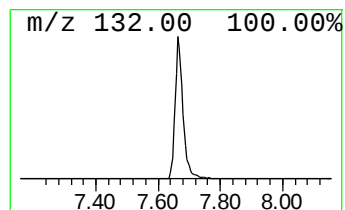
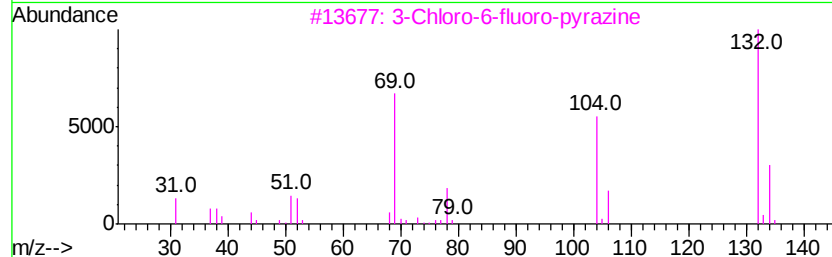
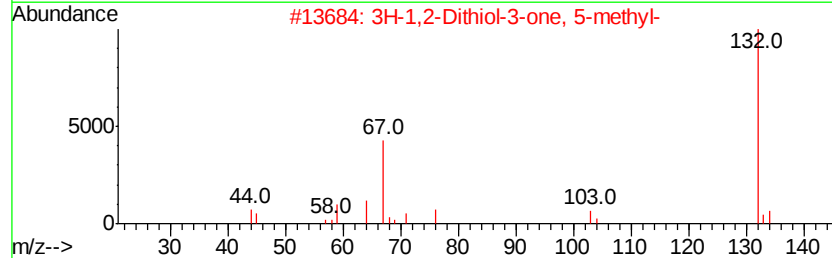
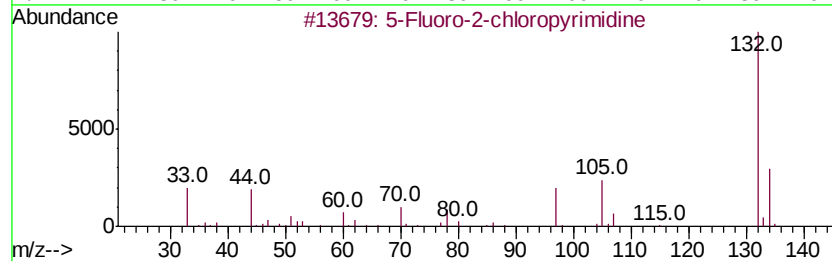
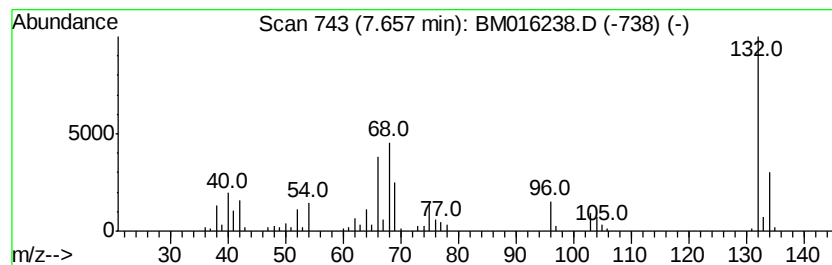
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 1 unknown7.66 Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.66	13.82 ng	270439	1,4-Dichlorobenzene-d4	8.13

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	5-Fluoro-2-chloropyrimidine	132	C4H2ClFN2	062802-42-0	27
2		3H-1,2-Dithiol-3-one, 5-methyl-	132	C4H4OS2	003620-08-4	27
3		3-Chloro-6-fluoro-pyrazine	132	C4H2ClFN2	1000146-10-7	27
4		1,3,4-Thiadiazole-2(3H)-thione, ...	132	C3H4N2S2	029490-19-5	27
5		1,3-Cyclopentanedione, 2-chloro-	132	C5H5ClO2	014203-19-1	17



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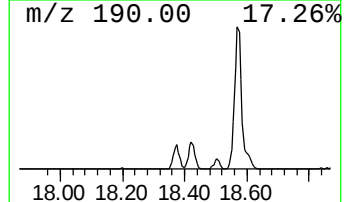
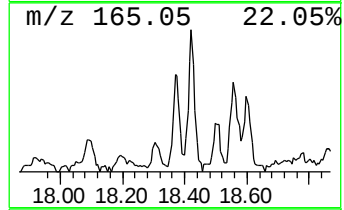
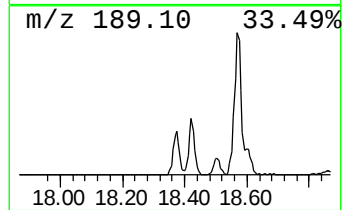
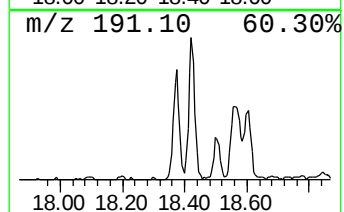
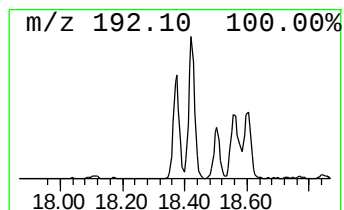
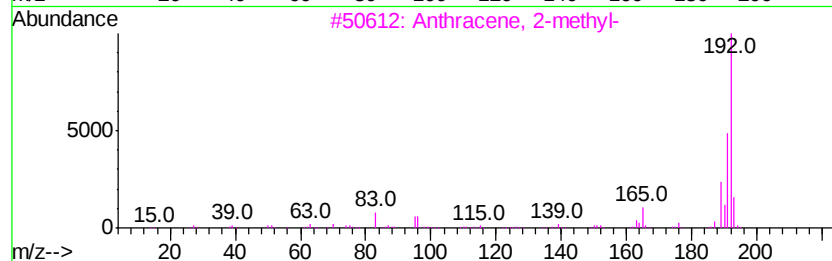
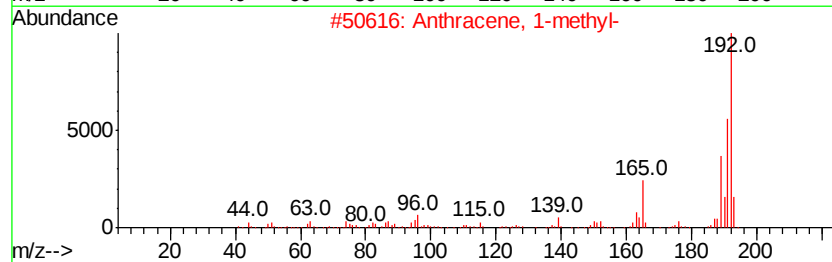
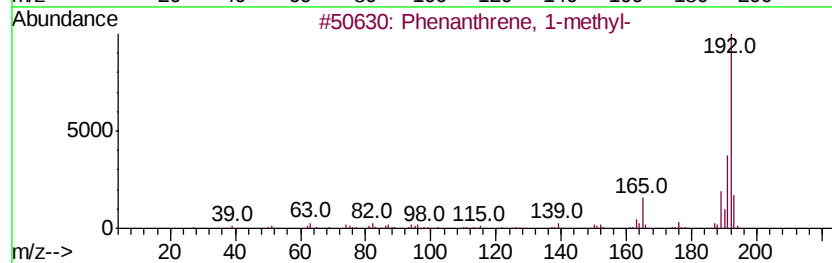
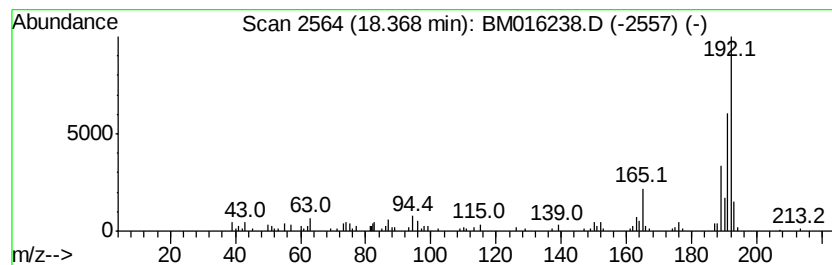
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.37	4.97 ng	209480	Phenanthrene-d10	17.51

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
2		Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
3		Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
4		Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
5		1H-Cyclopropa[1]phenanthrene, 1a, ...	192	C15H12	000949-41-7	93



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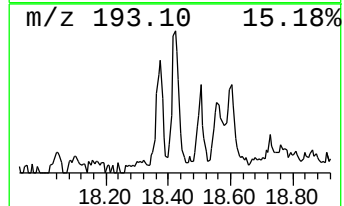
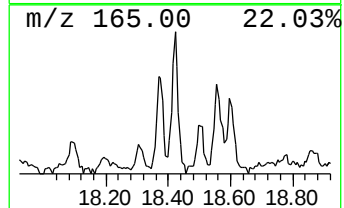
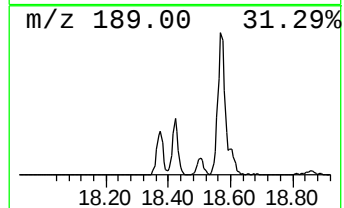
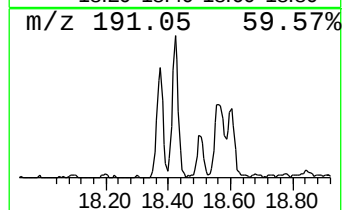
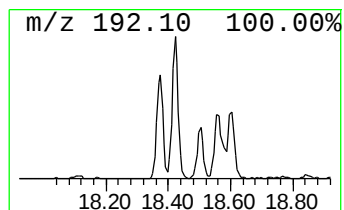
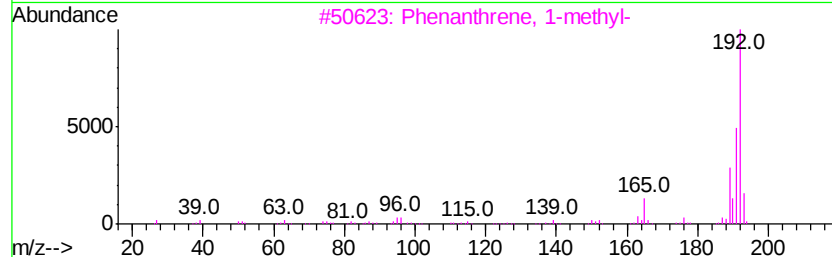
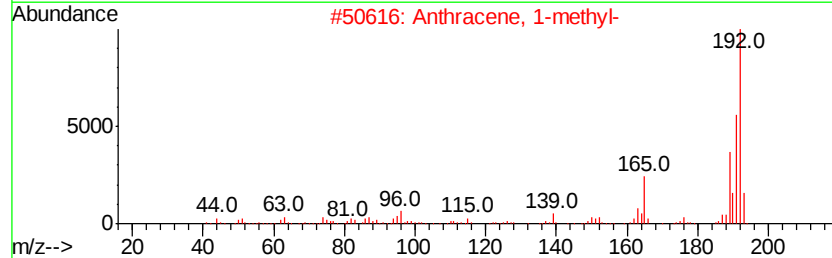
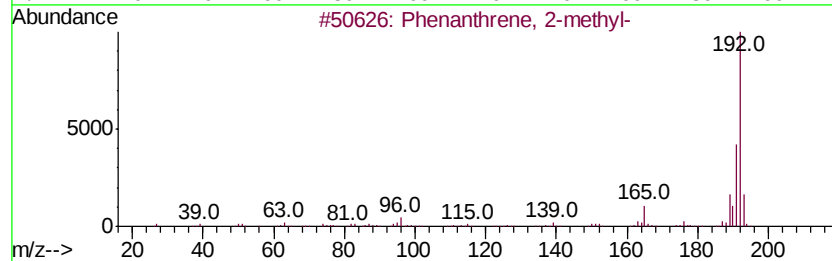
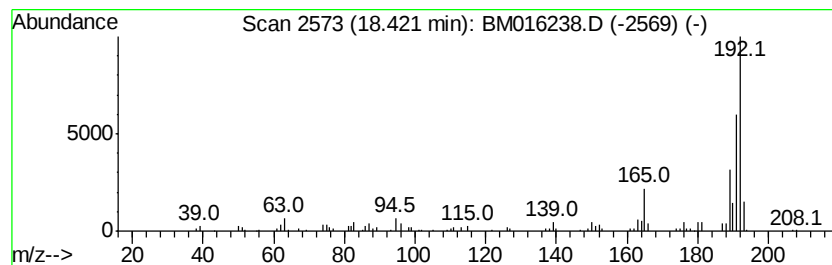
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TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.	
18.42	5.32 ng	224231	Phenanthrene-d10	17.51	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
4	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	91
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91



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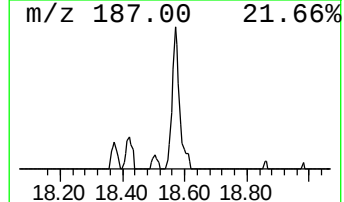
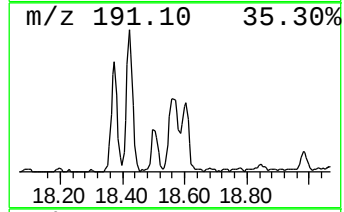
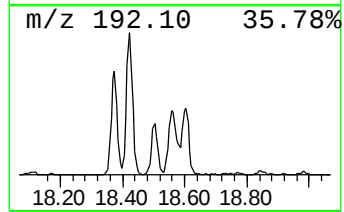
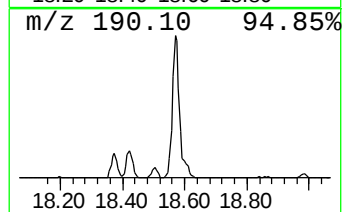
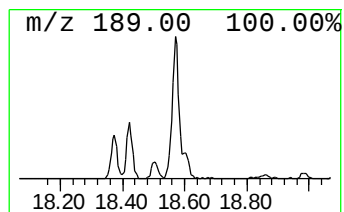
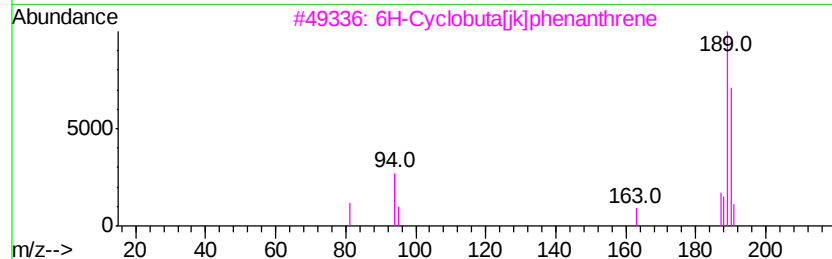
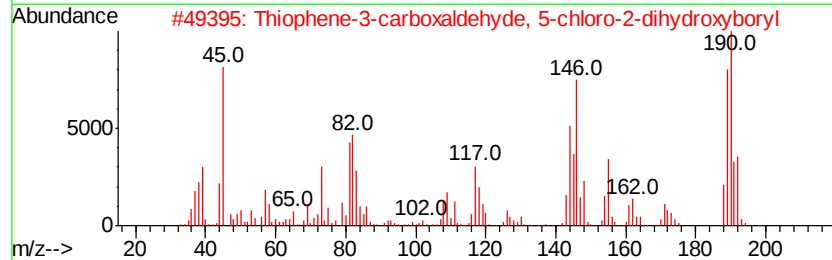
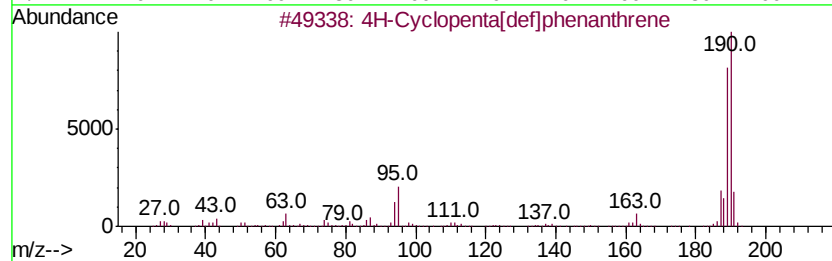
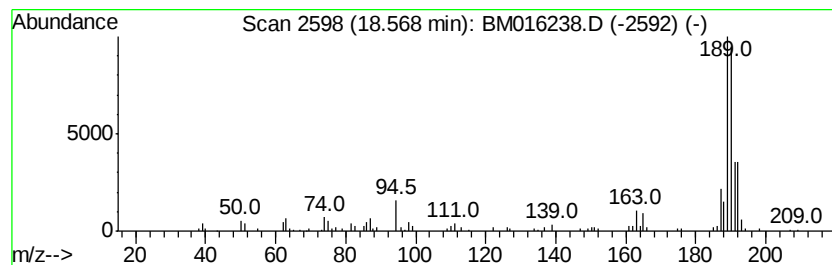
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Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.	
18.57	7.28 ng	306759	Phenanthrene-d10	17.51	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	72
3	6H-Cyclobuta[ik]phenanthrene	190	C15H10	083469-43-6	64
4	2-Naphthaldehyde, 1,2,3,4-tetra...	190	C12H14O2	002472-02-8	14
5	1,4-Naphthalenedione, 5,8-dihydr...	190	C10H6O4	000475-38-7	12



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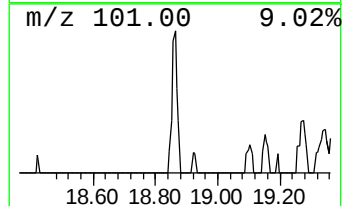
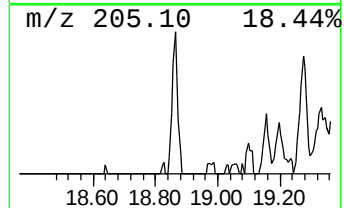
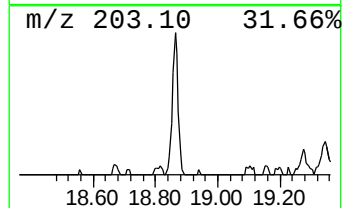
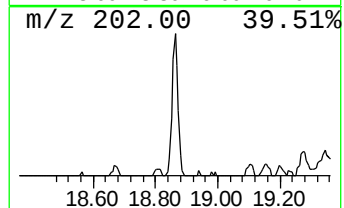
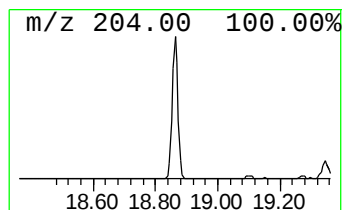
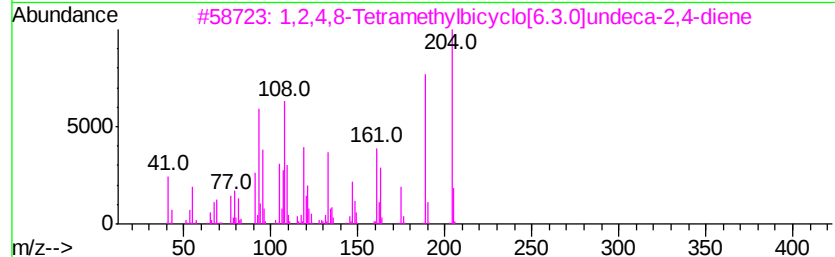
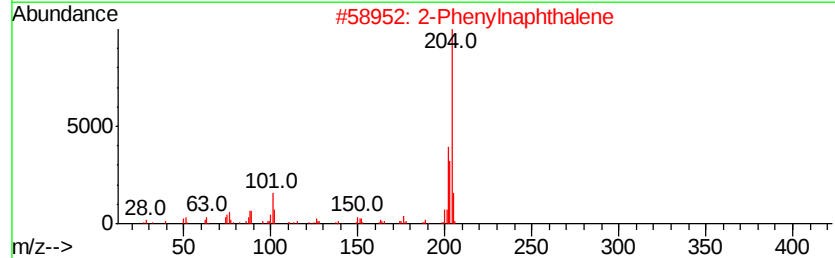
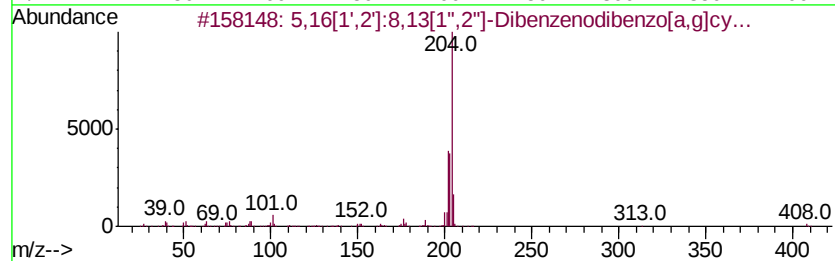
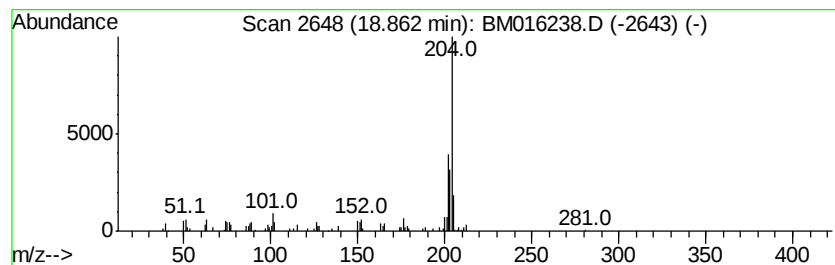
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 6 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.	
18.86	3.38 ng	142342	Phenanthrene-d10	17.51	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	90
2	2-Phenylnaphthalene	204	C16H12	035465-71-5	86
3	1,2,4,8-Tetramethylbicyclo[6.3.0]...	204	C15H24	137235-51-9	83
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	83
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM080718\
Data File : BM016238.D
Acq On : 08 Aug 2018 04:08
Operator : SJ/JU
Sample : J4310-03 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
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ClientSampled :
C-2

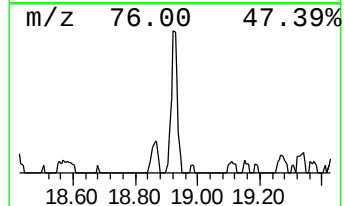
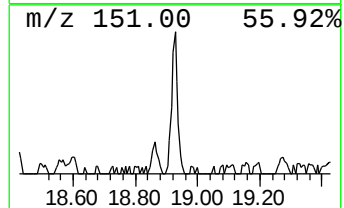
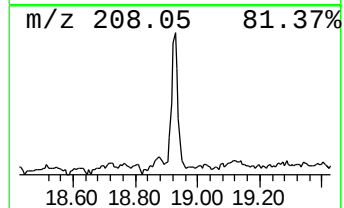
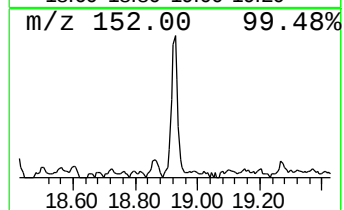
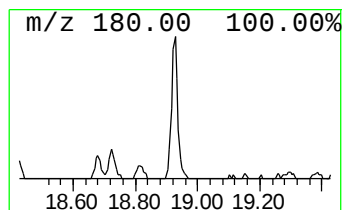
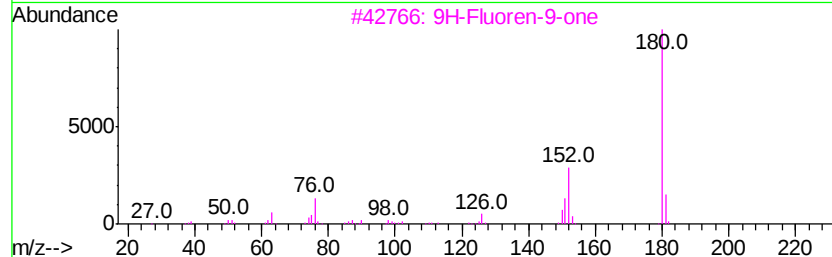
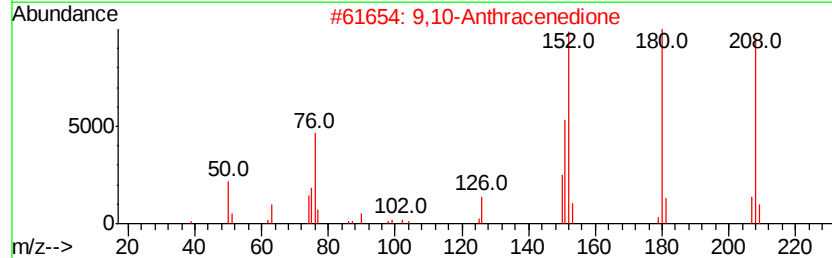
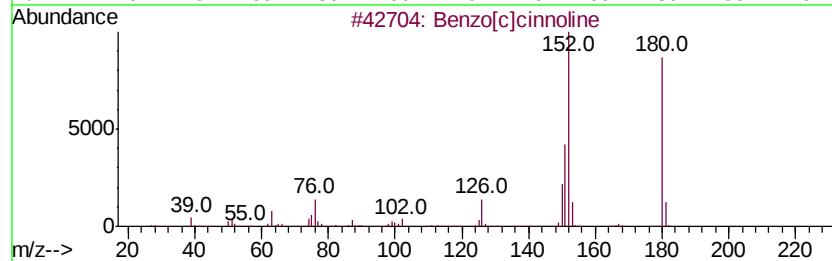
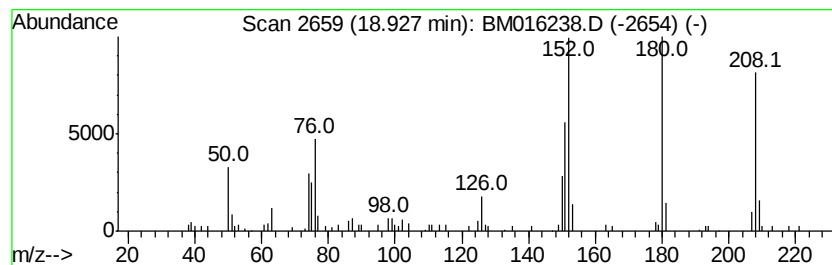
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 7 Benzo[c]cinnoline Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.93	3.05 ng	128612	Phenanthrene-d10	17.51

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzo[c]cinnoline	180	C12H8N2	000230-17-1	96
2		9,10-Anthracenedione	208	C14H8O2	000084-65-1	95
3		9H-Fluoren-9-one	180	C13H8O	000486-25-9	91
4		9,10-Phenanthrenedione	208	C14H8O2	000084-11-7	86
5		Benzo[h]cinnoline	180	C12H8N2	000230-31-9	60



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM080718\
Data File : BM016238.D
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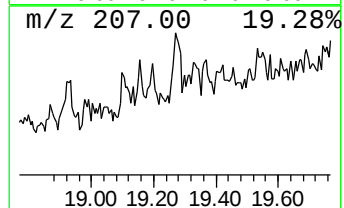
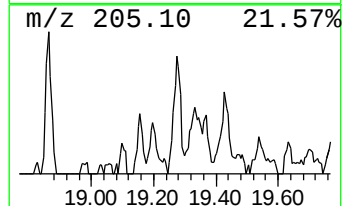
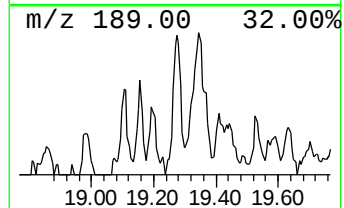
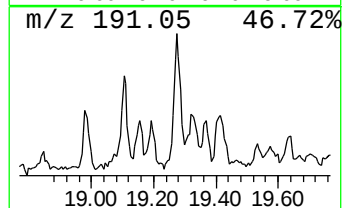
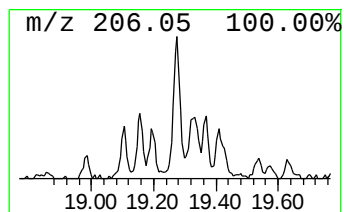
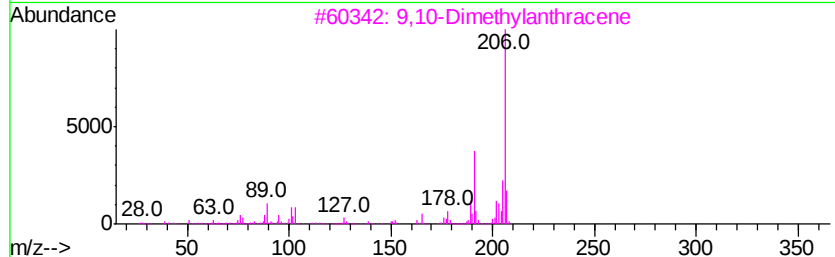
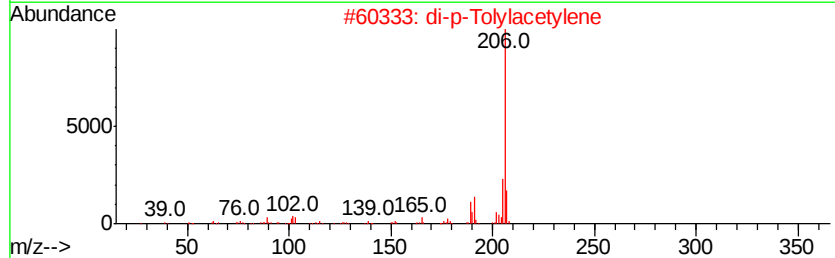
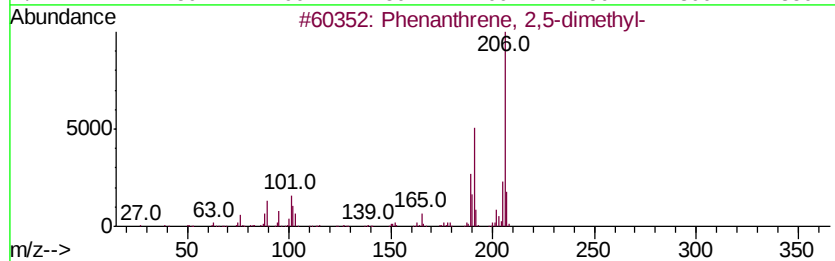
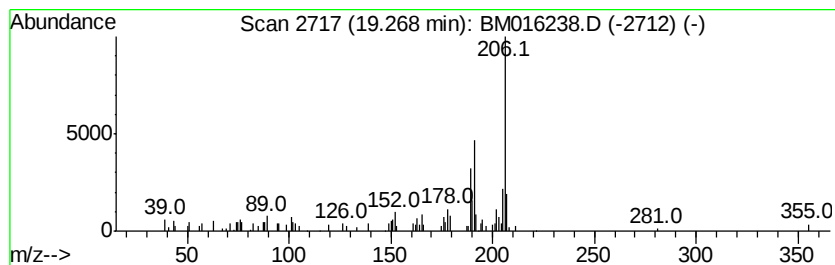
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 8 Phenanthrene, 2,5-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.27	2.79 ng	117592	Phenanthrene-d10	17.51

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2		di-p-Tolylacetylene	206	C16H14	002789-88-0	91
3		9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
4		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	87
5		Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	87



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM080718\
Data File : BM016238.D
Acq On : 08 Aug 2018 04:08
Operator : SJ/JU
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Misc :
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ClientSampled :
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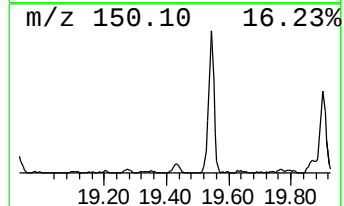
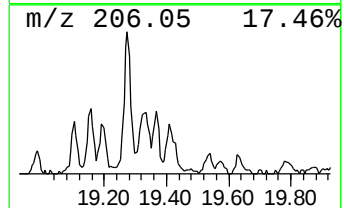
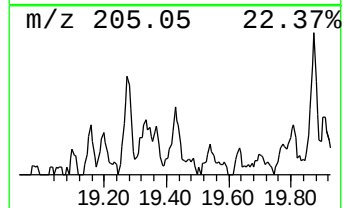
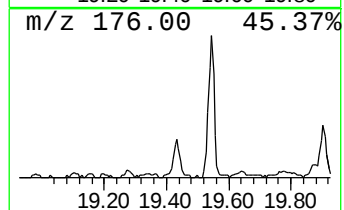
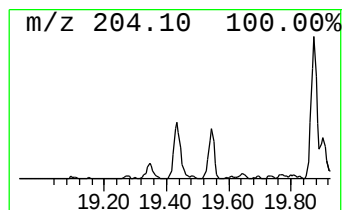
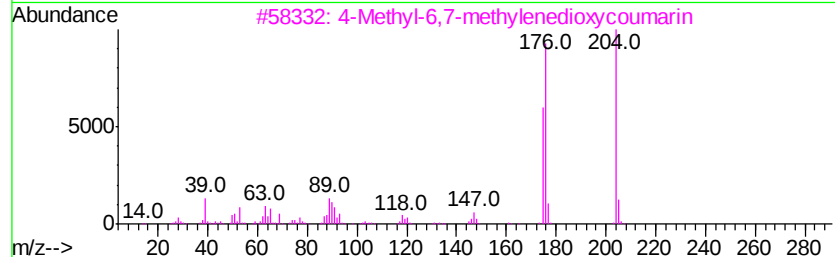
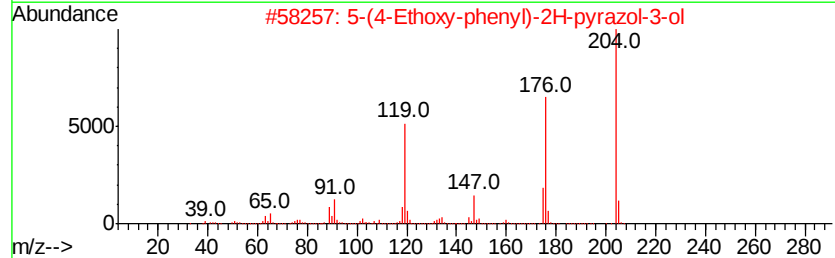
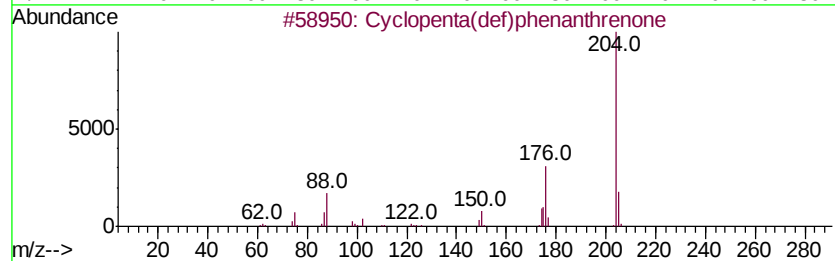
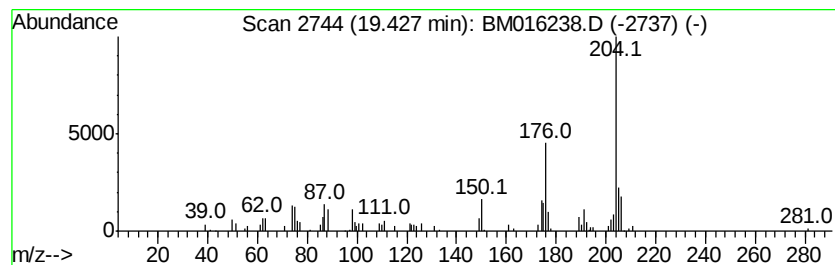
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 9 Cyclopenta(def)phenanthrenone Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.43	2.83 ng	119008	Phenanthrene-d10	17.51

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	80
2		5-(4-Ethoxy-phenyl)-2H-pyrazol-3-ol	204	C11H12N2O2	1000278-26-8	64
3		4-Methyl-6,7-methylenedioxy coumarin	204	C11H8O4	015071-04-2	53
4		[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50
5		N-(4-Chloro-phenyl)-2-(3,4-dihyd...	330	C17H15ClN2OS	1000296-34-3	45



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM080718\
Data File : BM016238.D
Acq On : 08 Aug 2018 04:08
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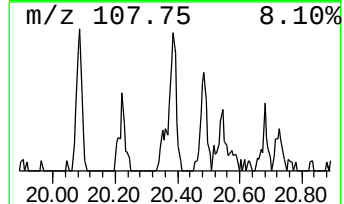
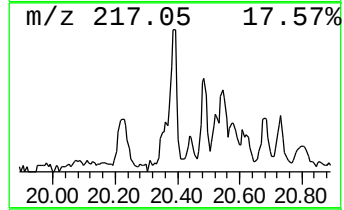
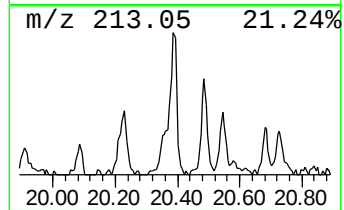
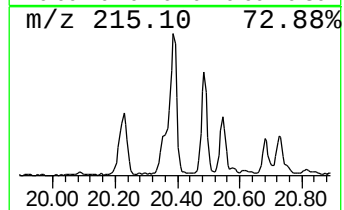
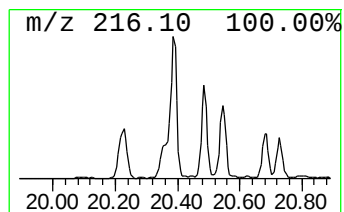
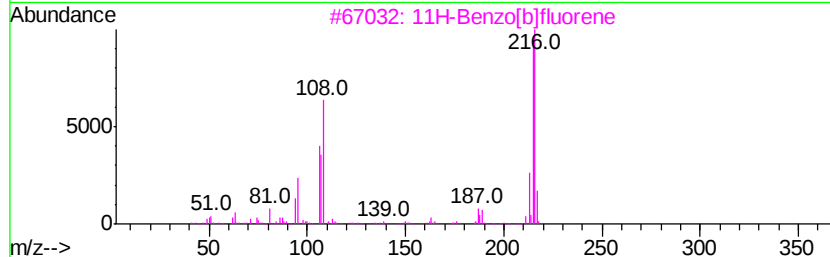
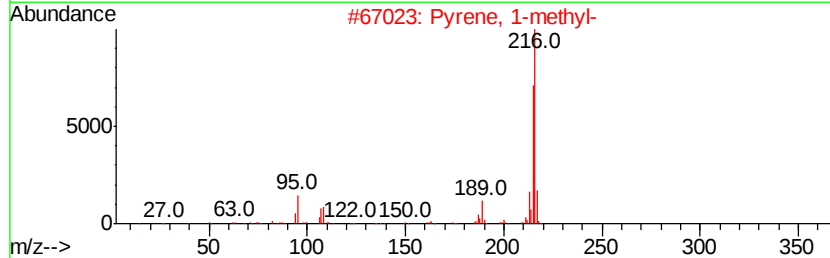
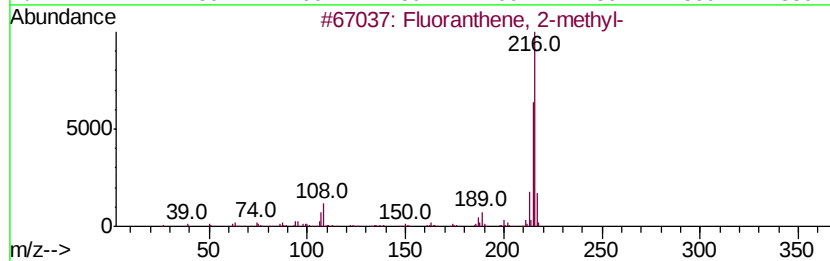
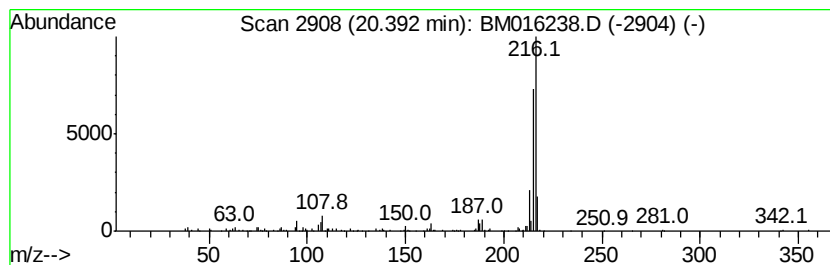
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 10 Fluoranthene, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.39	2.17 ng	249575	Chrysene-d12	21.64

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2			Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
3			11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
4			11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5			Pyrene, 2-methyl-	216	C17H12	003442-78-2	86



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM080718\
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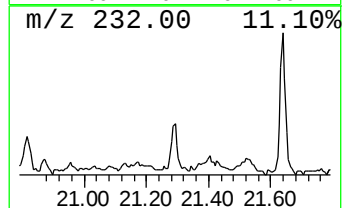
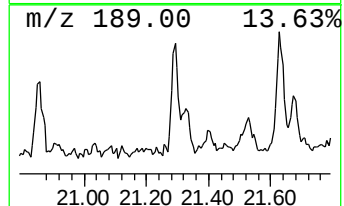
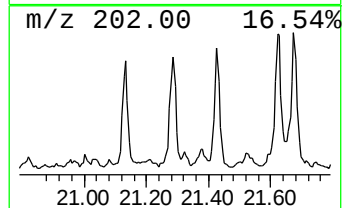
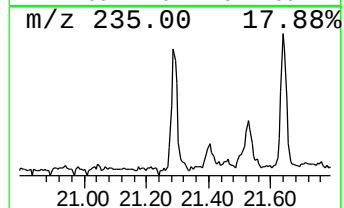
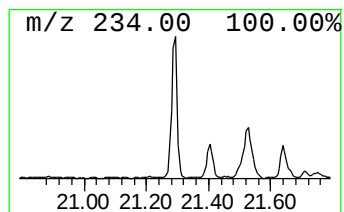
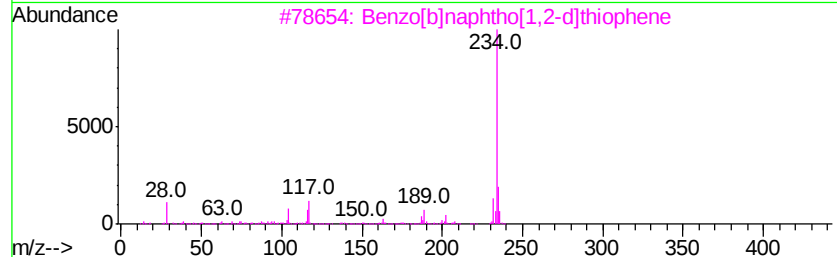
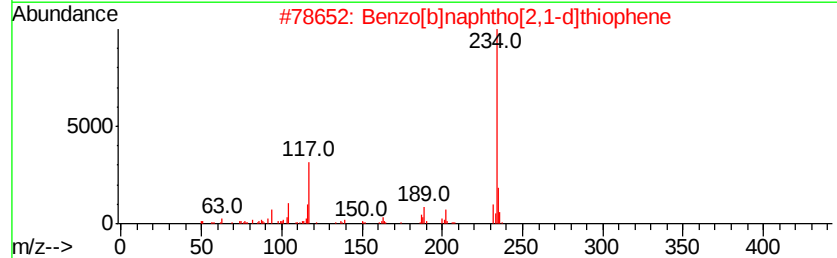
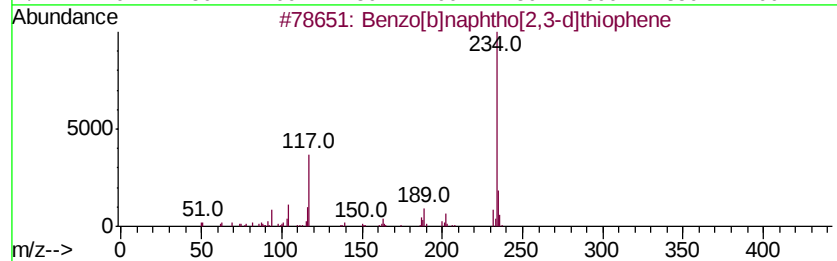
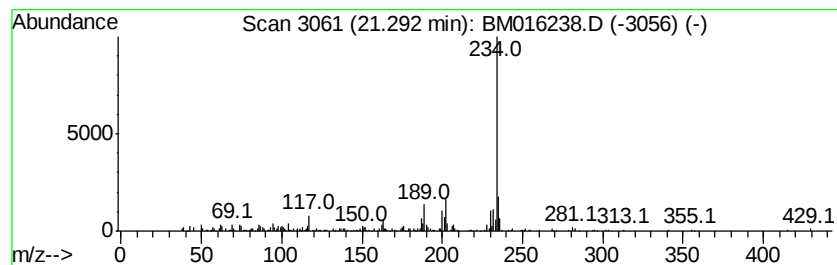
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 11 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.		
21.29	2.37 ng	272831	Chrysene-d12	21.64		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1		Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	76
2		Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	76
3		Benzo[b]naphtho[1,2-d]thiophene	234	C16H10S	000205-43-6	50
4		Quinoxalino[2,3-b]quinoxaline, 5...	234	C14H10N4	000531-46-4	40
5		3,5-Di-t-butyl-4-hydroxybenzoic ...	249	C15H23NO2	060632-18-0	38



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM080718\
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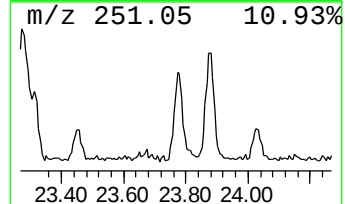
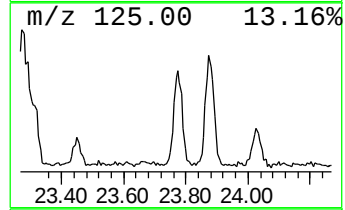
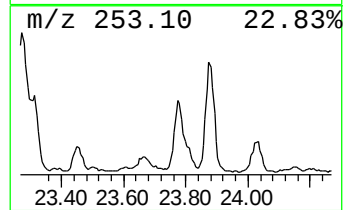
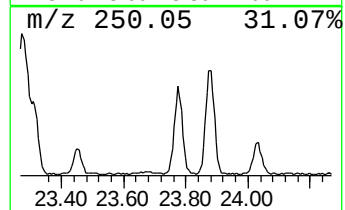
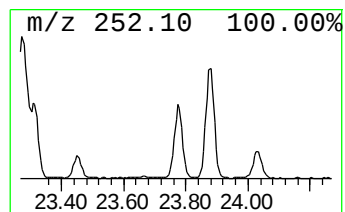
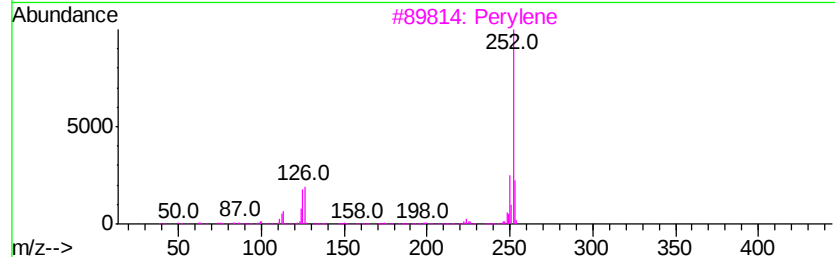
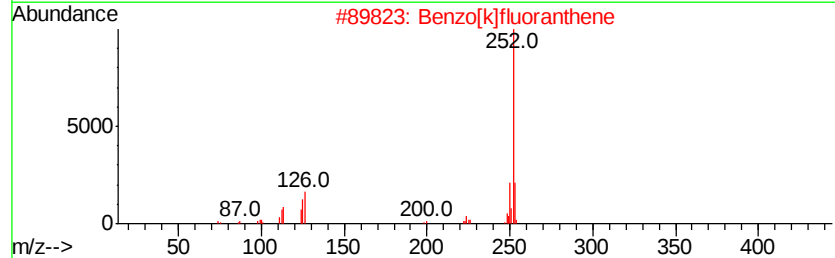
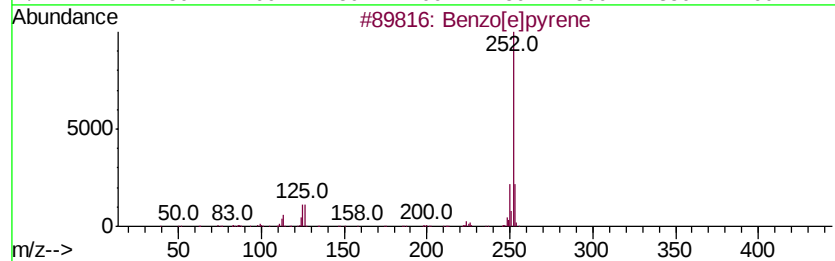
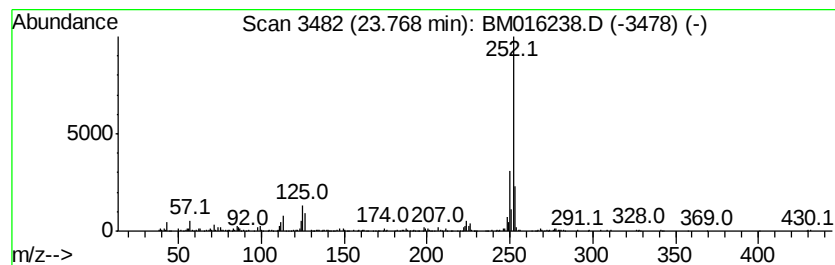
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

Peak Number 12 Benzo[e]pyrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.77	16.23 ng	617982	Perylene-d12	23.98

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Benzo[e]pyrene	252	C20H12	000192-97-2	95
2		Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
3		Perylene	252	C20H12	000198-55-0	94
4		Benzo[e]acephenanthrylene	252	C20H12	000205-99-2	93
5		Benzo[a]pyrene	252	C20H12	000050-32-8	90



Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM080718\
Data File : BM016238.D
Acq On : 08 Aug 2018 04:08
Operator : SJ/JU
Sample : J4310-03 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C-2

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM072318.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
unknown7.66	7.66	13.8	ng	270439	1	8.13	391347	20.0
Phenanthrene, 1-m...	18.37	5.0	ng	209480	4	17.51	842495	20.0
Phenanthrene, 2-m...	18.42	5.3	ng	224231	4	17.51	842495	20.0
4H-Cyclopenta[def...	18.57	7.3	ng	306759	4	17.51	842495	20.0
5,16[1',2']:8,13[...	18.86	3.4	ng	142342	4	17.51	842495	20.0
Benzo[c]cinnoline	18.93	3.0	ng	128612	4	17.51	842495	20.0
Phenanthrene, 2,5...	19.27	2.8	ng	117592	4	17.51	842495	20.0
Cyclopenta(def)ph...	19.43	2.8	ng	119008	4	17.51	842495	20.0
Fluoranthene, 2-m...	20.39	2.2	ng	249575	5	21.64	2304690	20.0
Benzo[b]naphtho[2...	21.29	2.4	ng	272831	5	21.64	2304690	20.0
Benzo[e]pyrene	23.77	16.2	ng	617982	6	23.98	761642	20.0