

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM090316\
 Data File : BM007403.D
 Acq On : 03 Sep 2016 12:34
 Operator : UM/SJ
 Sample : H4639-08
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BD385

Integration Parameters: LSCINT.P

Integrator: RTE
 Smoothing : OFF
 Sampling : 1
 Start Thrs: 0.2
 Stop Thrs : 0

Filtering: 5
 Min Area: 1 % 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_M\METHODS\SOM02.2-EPA-BM082316.M
 Title : SVOA CALIBRATION

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.963	736	744	752	rBV	503881	843065	9.65%	0.927%
2	7.128	766	772	778	rBV	361843	548676	6.28%	0.603%
3	7.328	799	806	816	rVB	510670	819425	9.38%	0.901%
4	7.792	875	885	895	rBV	820928	1392458	15.94%	1.531%
5	8.492	998	1004	1013	rBV	612921	985575	11.28%	1.084%
6	8.945	1074	1081	1088	rBV	489784	833668	9.54%	0.917%
7	9.663	1196	1203	1214	rBV	437726	783235	8.97%	0.861%
8	10.198	1282	1294	1302	rBV	700076	1228933	14.07%	1.351%
9	10.574	1348	1358	1364	rBV	1265980	2284343	26.15%	2.512%
10	10.627	1364	1367	1375	rVV	102289	157600	1.80%	0.173%
11	10.716	1375	1382	1393	rVV	256979	499222	5.71%	0.549%
12	11.998	1593	1600	1608	rBV	51300	90672	1.04%	0.100%
13	12.245	1635	1642	1651	rVB2	174429	347164	3.97%	0.382%
14	12.463	1673	1679	1687	rBV	104900	168743	1.93%	0.186%
15	13.245	1805	1812	1820	rBV2	100977	185525	2.12%	0.204%
16	13.592	1864	1871	1872	rBV3	51017	93971	1.08%	0.103%
17	13.745	1892	1897	1901	rBV2	96107	164723	1.89%	0.181%
18	13.798	1901	1906	1907	rVV	87642	121269	1.39%	0.133%
19	13.833	1907	1912	1916	rVV	1464758	2067687	23.67%	2.273%
20	13.880	1916	1920	1929	rVB	711138	1059381	12.13%	1.165%
21	14.021	1940	1944	1949	rVB	204044	278445	3.19%	0.306%
22	14.115	1954	1960	1974	rVB	1612406	2500948	28.63%	2.750%
23	14.321	1990	1995	2000	rBV	115079	148732	1.70%	0.164%
24	14.427	2003	2013	2019	rBV2	2140117	3461241	39.62%	3.806%
25	14.627	2041	2047	2056	rBV	598049	1043180	11.94%	1.147%
26	14.721	2056	2063	2068	rVV6	40583	99415	1.14%	0.109%
27	14.821	2076	2080	2087	rVV	210708	339109	3.88%	0.373%
28	15.215	2141	2147	2150	rBV5	67990	118786	1.36%	0.131%
29	15.274	2153	2157	2162	rVB	162894	208035	2.38%	0.229%
30	15.415	2174	2181	2187	rVV	2142556	3120597	35.72%	3.431%
31	15.462	2187	2189	2193	rVB3	70969	90873	1.04%	0.100%
32	15.539	2197	2202	2210	rVB	634668	898328	10.28%	0.988%
33	15.680	2219	2226	2234	rVB5	78164	190990	2.19%	0.210%
34	15.768	2234	2241	2246	rVB	121357	218848	2.51%	0.241%

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35	15.856	2247	2256	2258	rVV5	39233	98277	1.13%	0.108%
36	15.915	2260	2266	2273	rVV2	116486	322669	3.69%	0.355%
37	15.998	2274	2280	2288	rVB4	59117	150872	1.73%	0.166%
38	16.133	2298	2303	2306	rBV2	288806	476979	5.46%	0.524%
39	16.703	2395	2400	2404	rBV3	124314	232197	2.66%	0.255%
40	16.745	2404	2407	2410	rVB3	75227	90384	1.03%	0.099%
41	16.827	2416	2421	2427	rBV2	213147	353876	4.05%	0.389%
42	16.898	2427	2433	2434	rVV2	138611	275952	3.16%	0.303%
43	16.927	2434	2438	2443	rVV	305755	502936	5.76%	0.553%
44	16.986	2444	2448	2457	rVB3	123874	254740	2.92%	0.280%
45	17.168	2473	2479	2483	rBV	3164444	4565420	52.26%	5.020%
46	17.209	2483	2486	2491	rVB	687534	857190	9.81%	0.942%
47	17.268	2491	2496	2501	rBV2	2389866	3452770	39.53%	3.796%
48	17.350	2506	2510	2516	rBV3	83483	144931	1.66%	0.159%
49	17.480	2523	2532	2537	rVB3	124014	272067	3.11%	0.299%
50	17.545	2539	2543	2546	rBV3	158319	244755	2.80%	0.269%
51	17.662	2559	2563	2566	rBV	212767	254847	2.92%	0.280%
52	17.750	2574	2578	2582	rBV	117762	152645	1.75%	0.168%
53	18.056	2623	2630	2633	rBV2	476565	965955	11.06%	1.062%
54	18.086	2633	2635	2641	rVB	489539	651151	7.45%	0.716%
55	18.227	2655	2659	2664	rBV2	257284	412305	4.72%	0.453%
56	18.274	2664	2667	2672	rVB	202973	274223	3.14%	0.302%
57	18.350	2676	2680	2684	rBV2	285643	393433	4.50%	0.433%
58	18.397	2684	2688	2691	rVV5	116803	170705	1.95%	0.188%
59	18.433	2691	2694	2699	rVB3	116018	167488	1.92%	0.184%
60	18.545	2709	2713	2716	rBV	321232	433915	4.97%	0.477%
61	18.586	2716	2720	2730	rVB3	274516	463335	5.30%	0.509%
62	18.792	2751	2755	2759	rVV2	145101	229008	2.62%	0.252%
63	18.839	2760	2763	2767	rVV	158833	235536	2.70%	0.259%
64	18.880	2767	2770	2774	rVB	172199	202489	2.32%	0.223%
65	18.962	2780	2784	2786	rBV	353116	512881	5.87%	0.564%
66	19.050	2797	2799	2803	rVB	152993	183690	2.10%	0.202%
67	19.103	2803	2808	2815	rBV2	385611	596305	6.83%	0.656%
68	19.227	2824	2829	2835	rVB	2864864	3933528	45.03%	4.325%
69	19.292	2835	2840	2843	rBV	212198	318307	3.64%	0.350%
70	19.333	2843	2847	2851	rVB2	111358	198812	2.28%	0.219%
71	19.427	2860	2863	2867	rVB3	109641	124872	1.43%	0.137%

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72	19.562	2880	2886	2889	rBV2	3956750	5949711	68.11%	6.542%
73	19.592	2889	2891	2898	rVV	1489362	1799160	20.60%	1.978%
74	19.662	2899	2903	2909	rVB2	297261	475459	5.44%	0.523%
75	19.768	2917	2921	2927	rVB2	171858	307854	3.52%	0.338%
76	19.909	2941	2945	2956	rBV4	280938	788940	9.03%	0.867%
77	20.044	2964	2968	2971	rBV4	189682	372850	4.27%	0.410%
78	20.386	3023	3026	3029	rBV2	163386	226491	2.59%	0.249%
79	20.597	3058	3062	3065	rBV2	250134	315160	3.61%	0.347%
80	20.833	3098	3102	3108	rBV	716440	955715	10.94%	1.051%
81	20.997	3127	3130	3133	rVB	435969	535732	6.13%	0.589%
82	21.056	3134	3140	3148	rVV4	731934	1454639	16.65%	1.599%
83	21.127	3149	3152	3158	rVB2	395859	555621	6.36%	0.611%
84	21.350	3184	3190	3195	rBV2	5149152	8735499	100.00%	9.605%
85	21.962	3291	3294	3301	rVB2	514587	847444	9.70%	0.932%
86	22.938	3452	3460	3473	rVB2	1598877	5074556	58.09%	5.580%
87	23.427	3539	3543	3546	rBV	538378	831148	9.51%	0.914%
88	23.480	3546	3552	3558	rVB2	2313844	4294769	49.16%	4.722%
89	23.627	3570	3577	3583	rBV	2856677	5426709	62.12%	5.967%
90	24.138	3659	3664	3674	rVB	697864	1437823	16.46%	1.581%

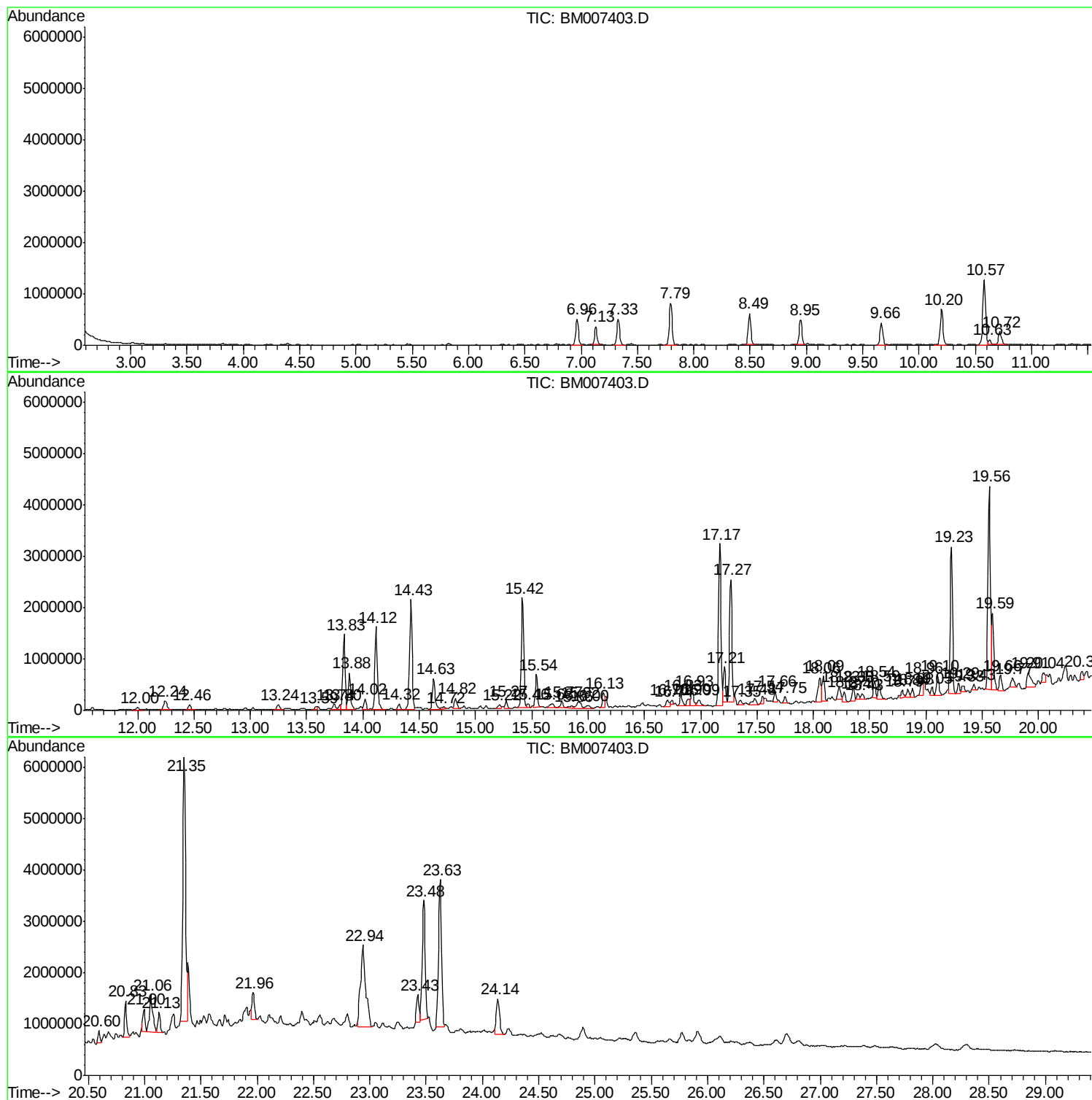
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Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
Quant Title : SVOA CALIBRATION

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



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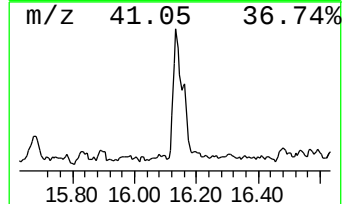
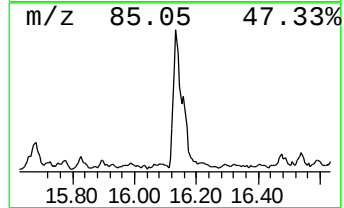
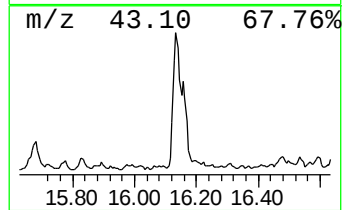
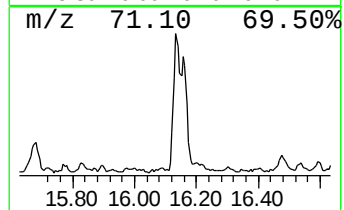
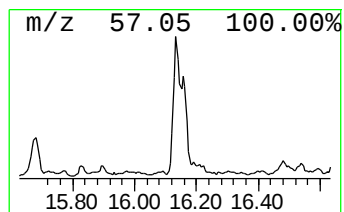
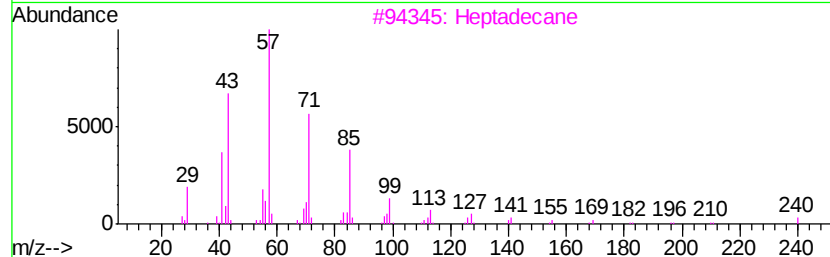
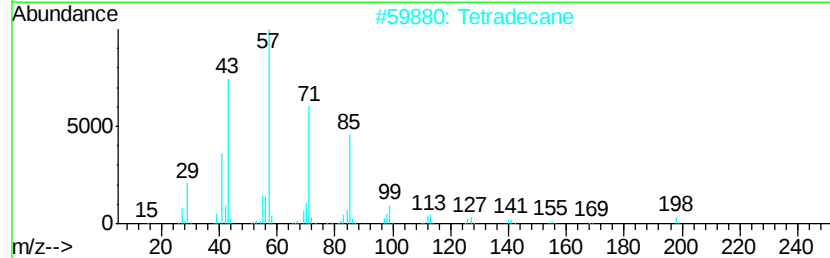
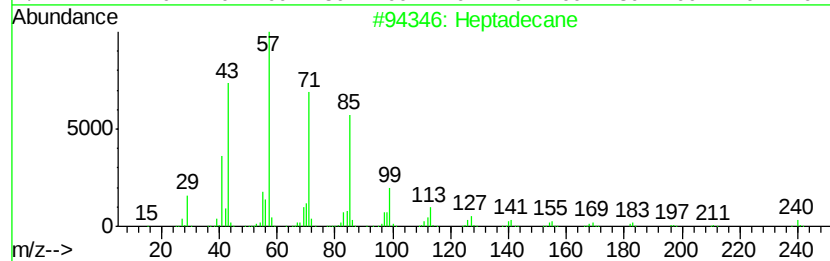
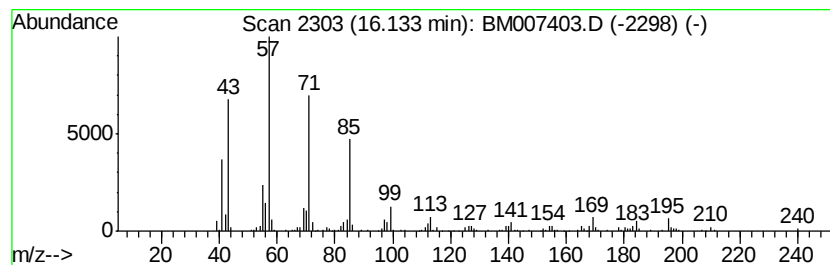
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
Quant Title : SVOA CALIBRATION

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

Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.13	2.09 ng/ul	476979	Phenanthrene-d10	17.17

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Heptadecane	240	C17H36	000629-78-7	95
2		Tetradecane	198	C14H30	000629-59-4	93
3		Heptadecane	240	C17H36	000629-78-7	83
4		Heneicosane	296	C21H44	000629-94-7	83
5		Tridecane	184	C13H28	000629-50-5	83



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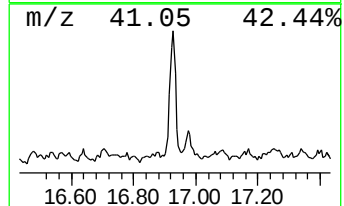
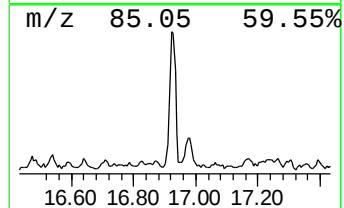
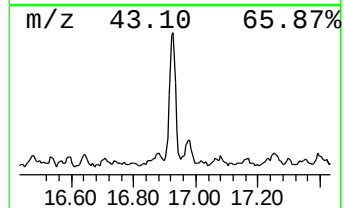
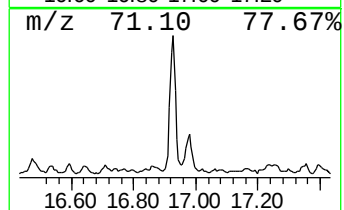
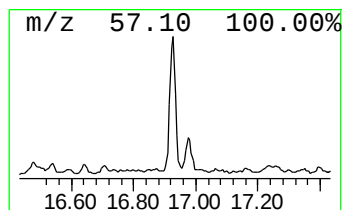
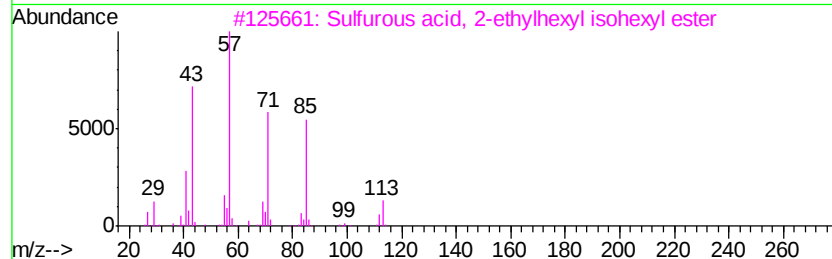
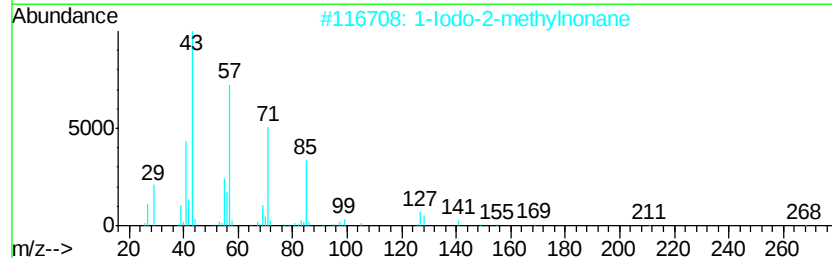
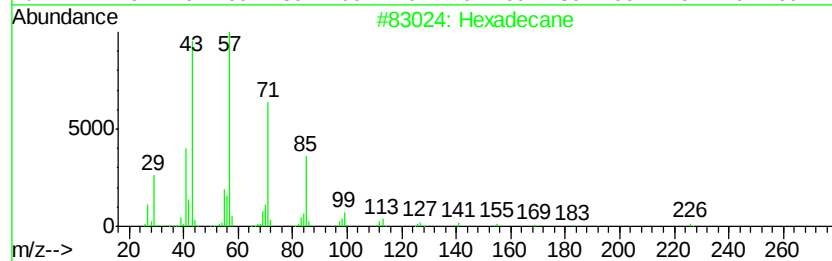
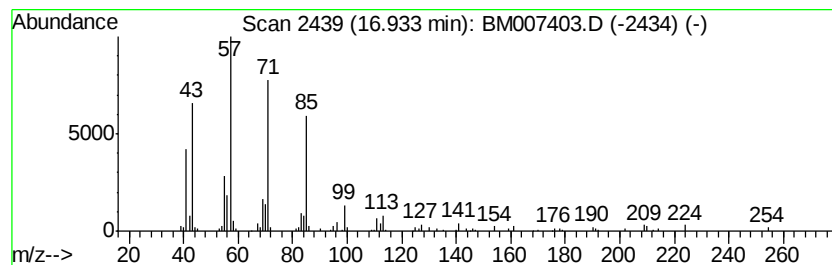
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TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.93	2.20 ng/ul	502936	Phenanthrene-d10	17.17

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexadecane	226	C16H34	000544-76-3	86
2			1-Iodo-2-methylnonane	268	C10H21I	1000101-47-9	80
3			Sulfurous acid, 2-ethylhexyl iso...	278	C14H30O3S	1000309-19-0	80
4			Undecane, 5,7-dimethyl-	184	C13H28	017312-83-3	80
5			Heptacosane	380	C27H56	000593-49-7	72



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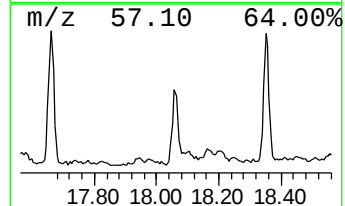
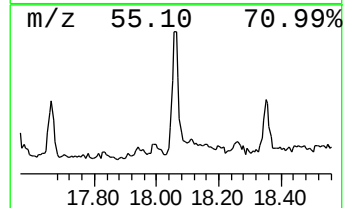
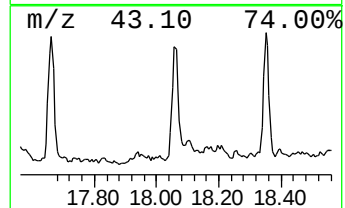
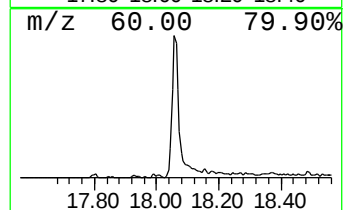
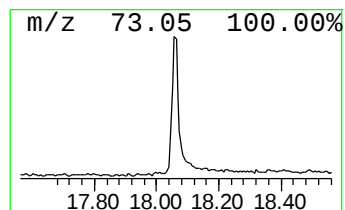
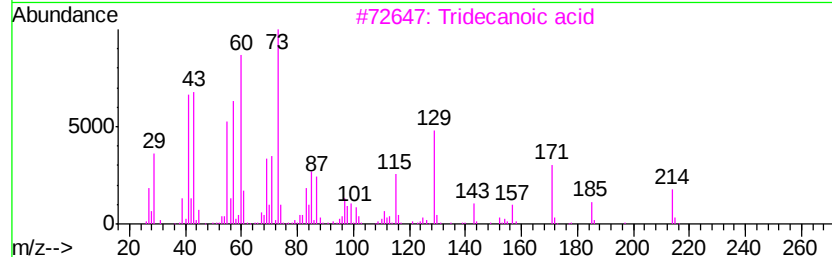
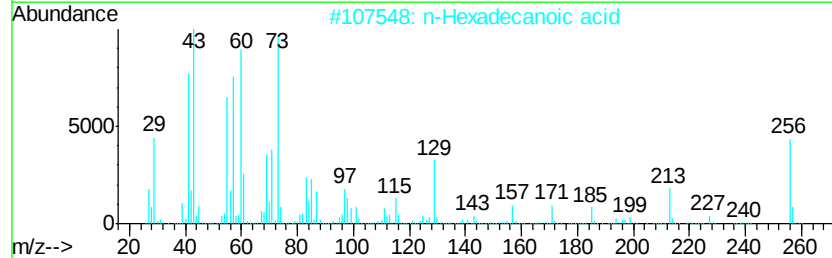
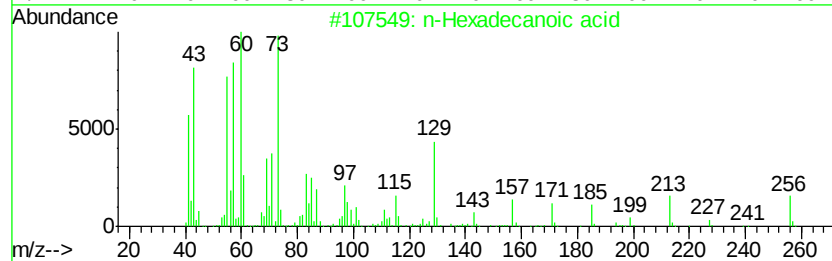
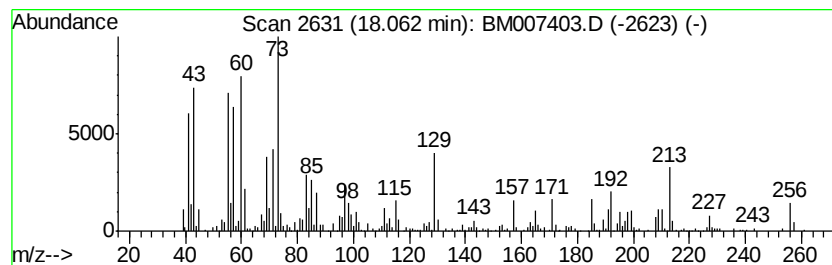
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Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.		
18.06	4.23 ng/ul	965955	Phenanthrene-d10	17.17		
Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99	
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	96	
3	Tridecanoic acid	214	C13H26O2	000638-53-9	91	
4	Tridecanoic acid	214	C13H26O2	000638-53-9	91	
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	83	



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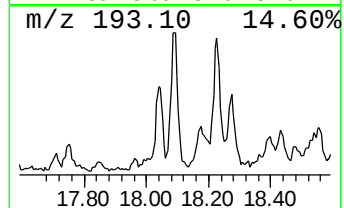
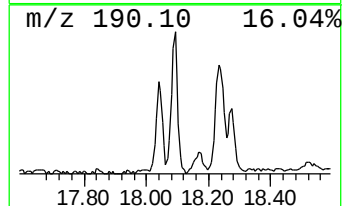
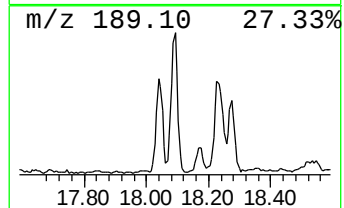
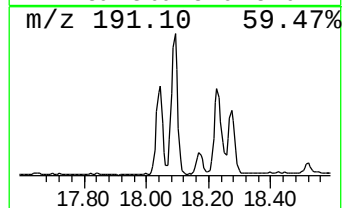
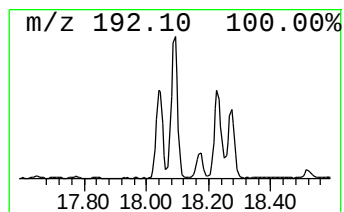
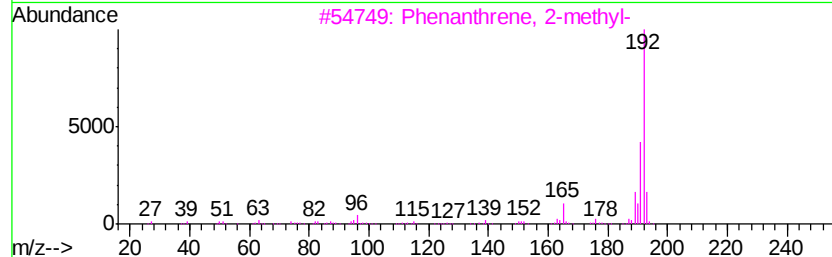
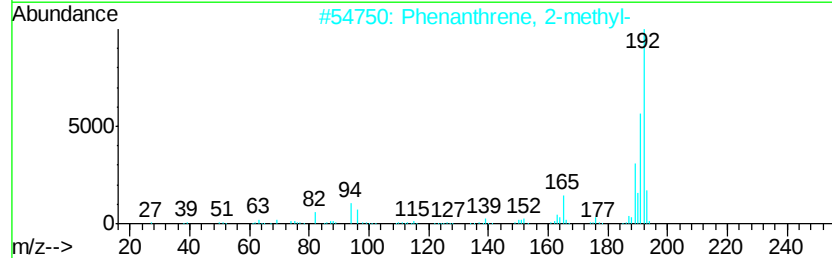
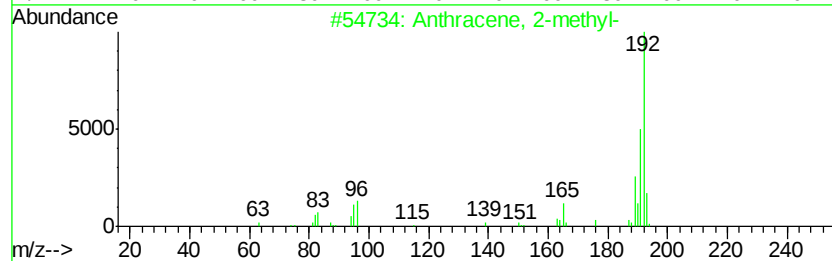
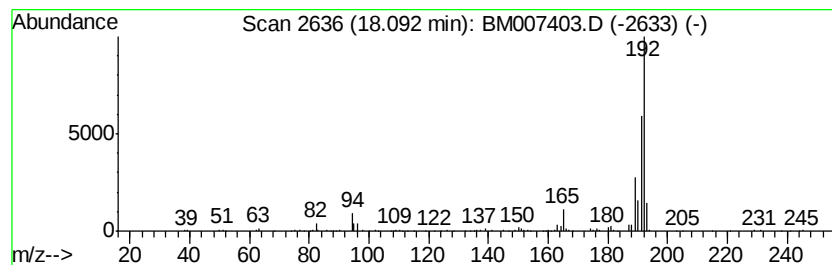
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Quant Title : SVOA CALIBRATION

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.09	2.85 ng/ul	651151	Phenanthrene-d10	17.17

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



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM090316\
Data File : BM007403.D
Acq On : 03 Sep 2016 12:34
Operator : UM/SJ
Sample : H4639-08
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
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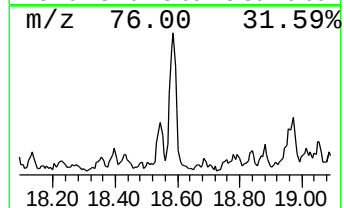
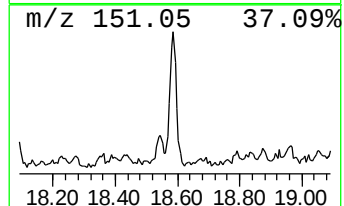
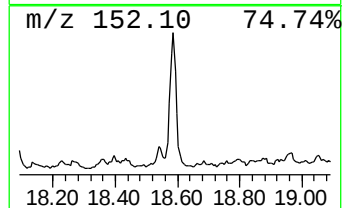
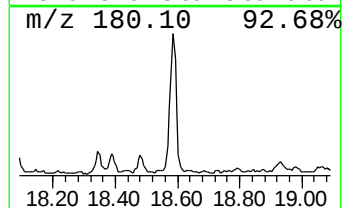
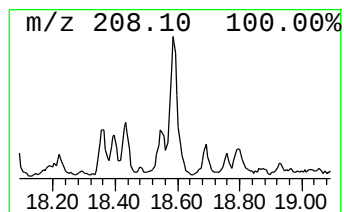
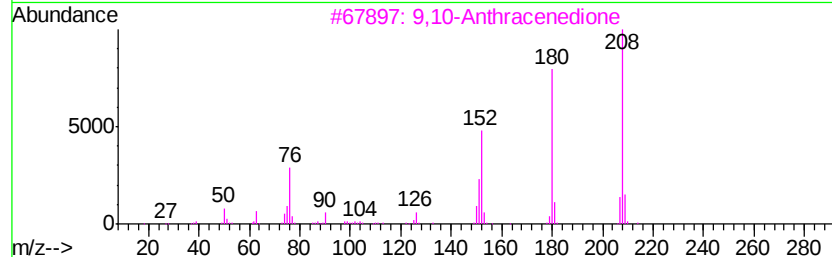
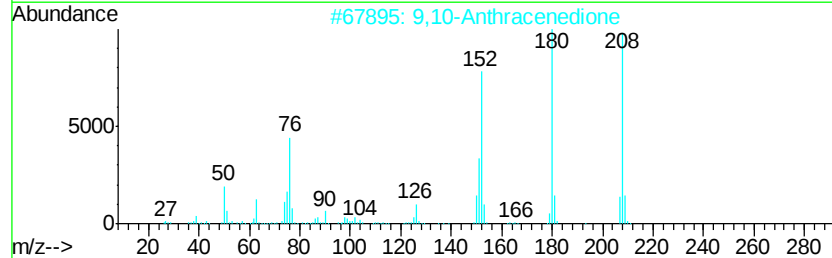
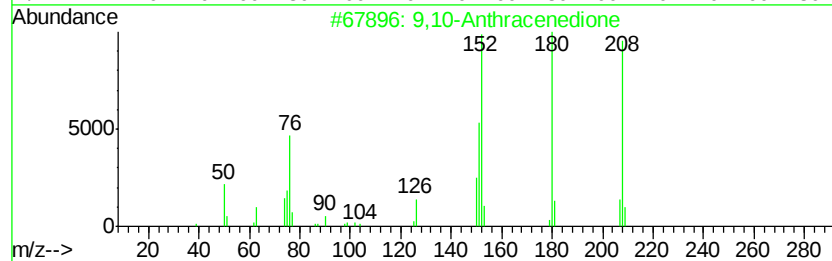
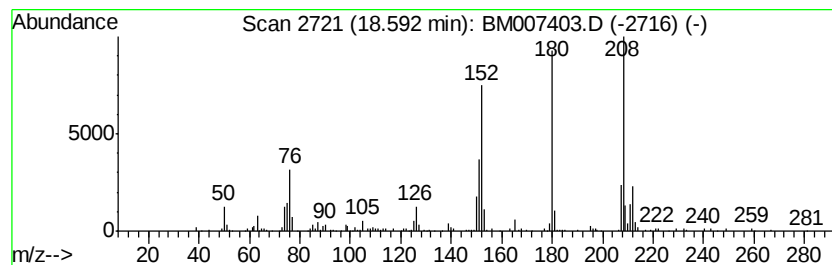
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Quant Title : SVOA CALIBRATION

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

Peak Number 5 9,10-Anthracenedione Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.59	2.03 ng/ul	463335	Phenanthrene-d10	17.17

Hit# of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione		208	C14H8O2	000084-65-1	97
2	9,10-Anthracenedione		208	C14H8O2	000084-65-1	96
3	9,10-Anthracenedione		208	C14H8O2	000084-65-1	91
4	9H-Fluoren-9-one		180	C13H8O	000486-25-9	60
5	Benzo[c]cinnoline		180	C12H8N2	000230-17-1	60



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM090316\
Data File : BM007403.D
Acq On : 03 Sep 2016 12:34
Operator : UM/SJ
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Misc :
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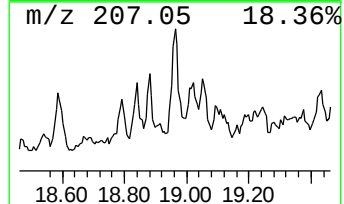
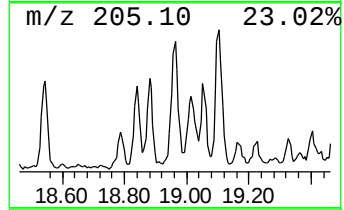
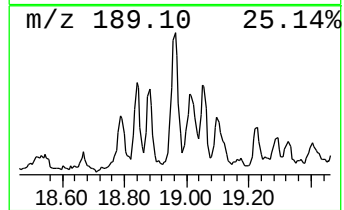
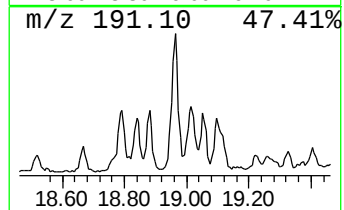
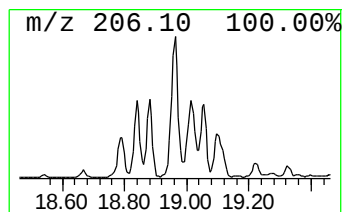
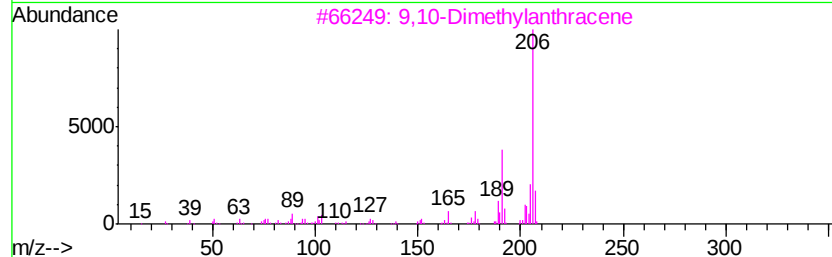
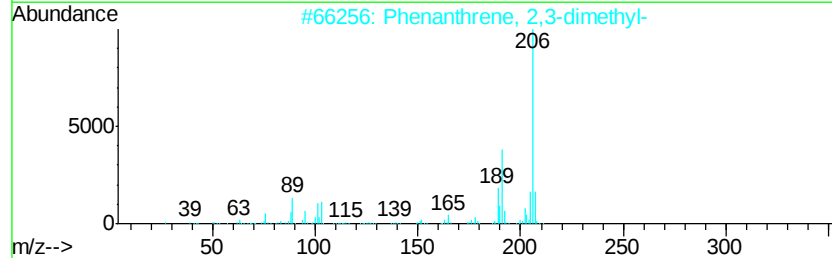
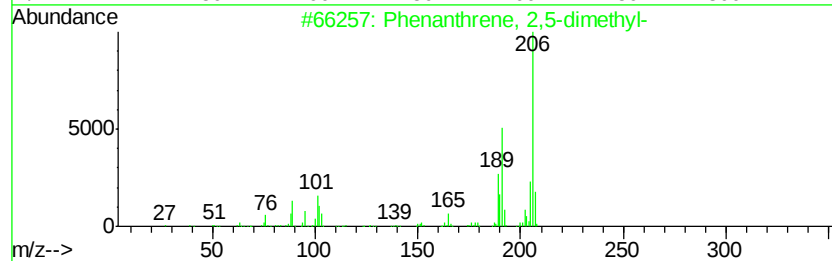
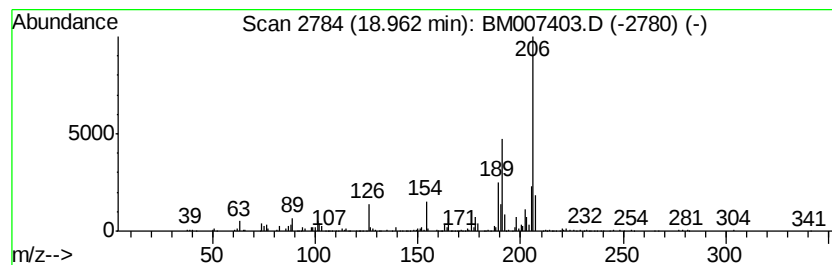
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Quant Title : SVOA CALIBRATION

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

Peak Number 6 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.96	2.25 ng/ul	512881	Phenanthrene-d10	17.17

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
2		Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	91
3		9,10-Dimethylantracene	206	C16H14	000781-43-1	90
4		9,10-Dimethylantracene	206	C16H14	000781-43-1	90
5		Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM090316\
Data File : BM007403.D
Acq On : 03 Sep 2016 12:34
Operator : UM/SJ
Sample : H4639-08
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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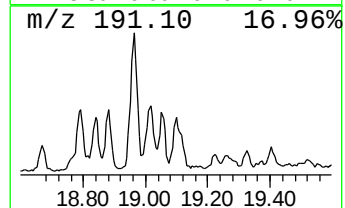
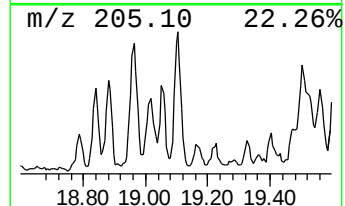
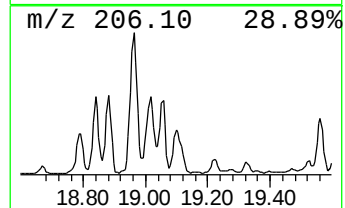
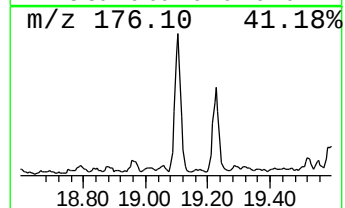
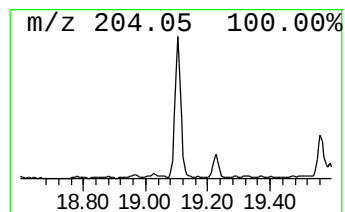
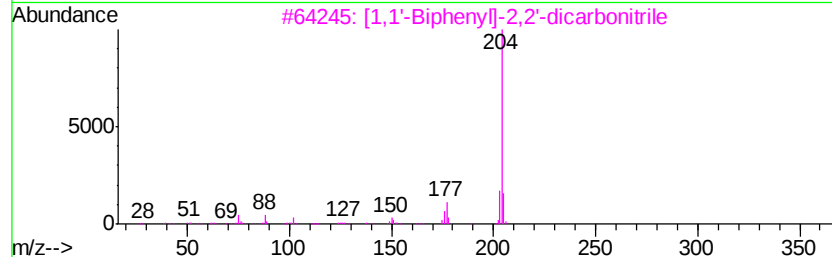
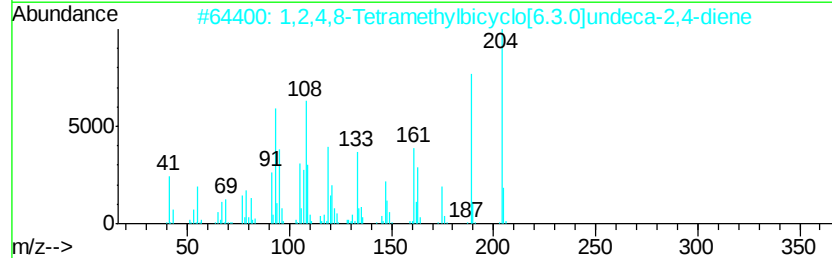
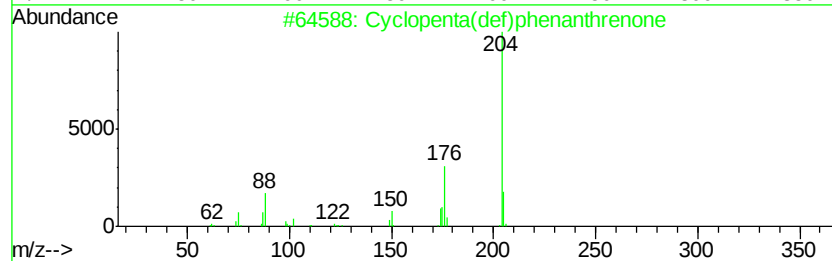
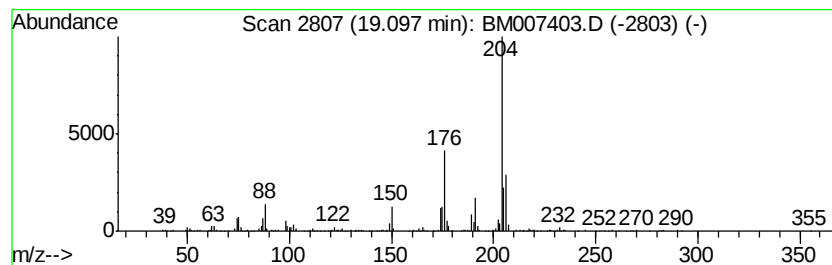
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Quant Title : SVOA CALIBRATION

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

Peak Number 7 Cyclopenta(def)phenanthrenone Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.10	2.61 ng/ul	596305	Phenanthrene-d10	17.17

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	90
2		1,2,4,8-Tetramethylbicyclo[6.3.0...]	204	C15H24	137235-51-9	45
3		[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	43
4		Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	43
5		Quinoline, 8-methoxy-5-nitro-	204	C10H8N2O3	1000298-88-7	43



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM090316\
Data File : BM007403.D
Acq On : 03 Sep 2016 12:34
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Sample : H4639-08
Misc :
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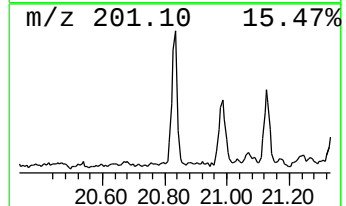
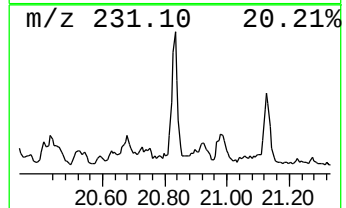
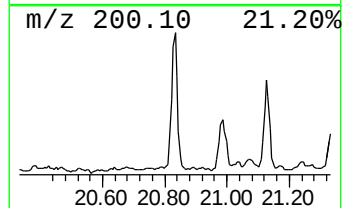
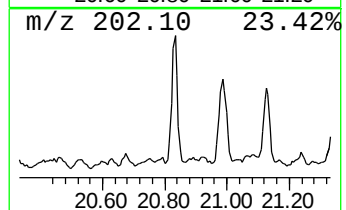
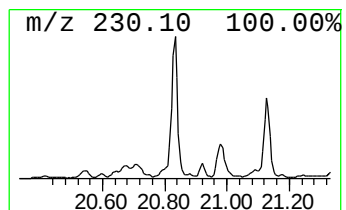
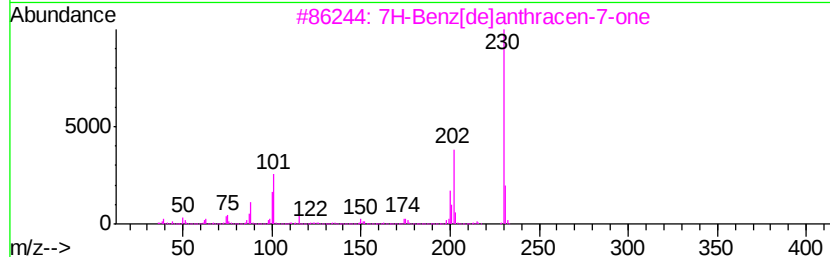
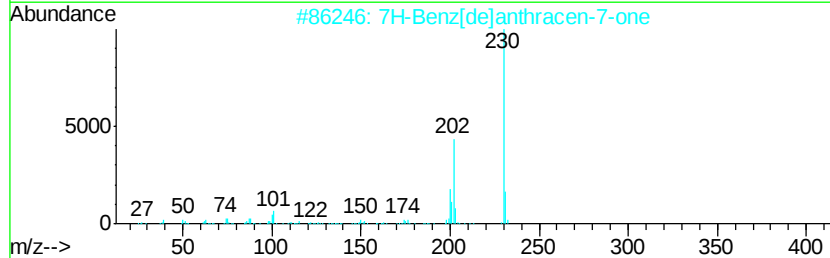
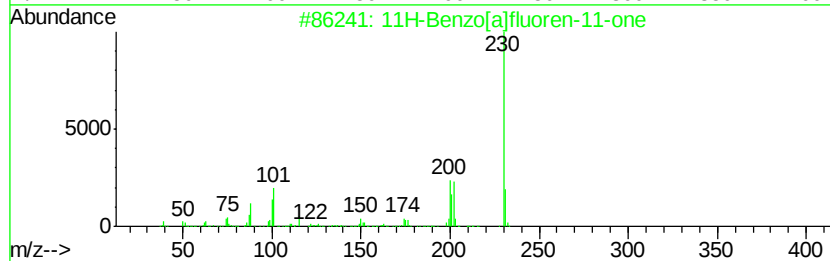
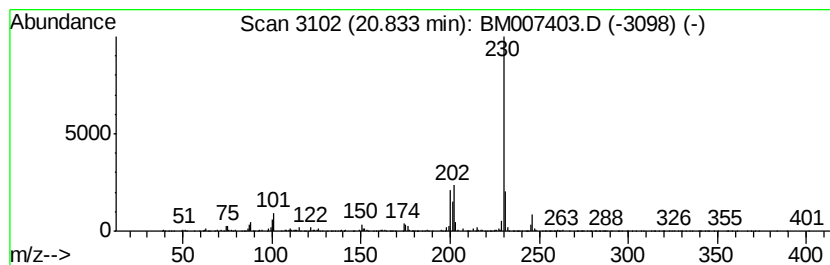
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Quant Title : SVOA CALIBRATION

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

Peak Number 8 11H-Benzo[a]fluoren-11-one Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.83	2.19 ng/ul	955715	Chrysene-d12	21.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	96
2		7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
3		7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	87
4		7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	81
5		7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	74



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM090316\
Data File : BM007403.D
Acq On : 03 Sep 2016 12:34
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Sample : H4639-08
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
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ClientSampleId :
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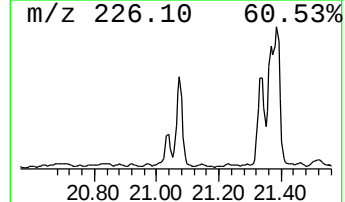
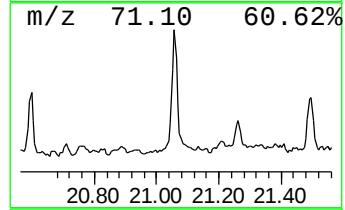
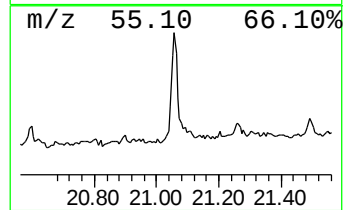
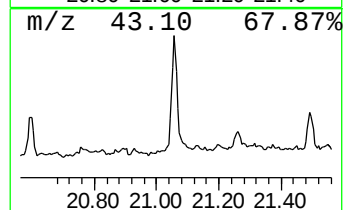
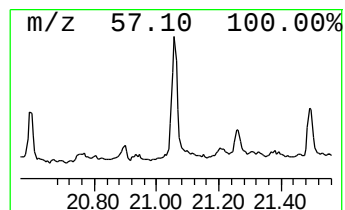
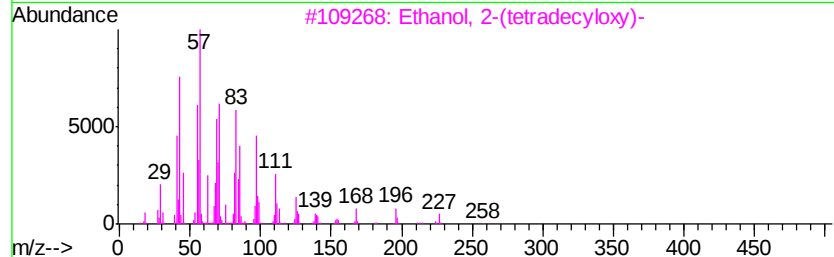
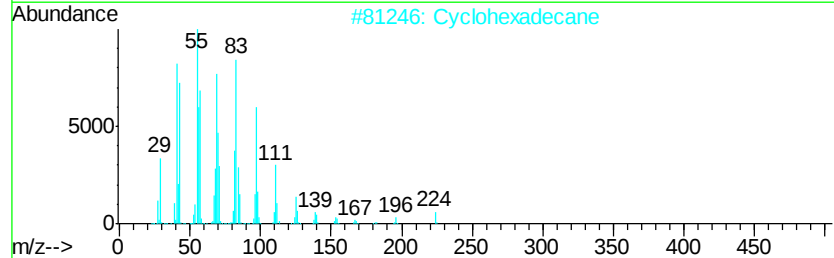
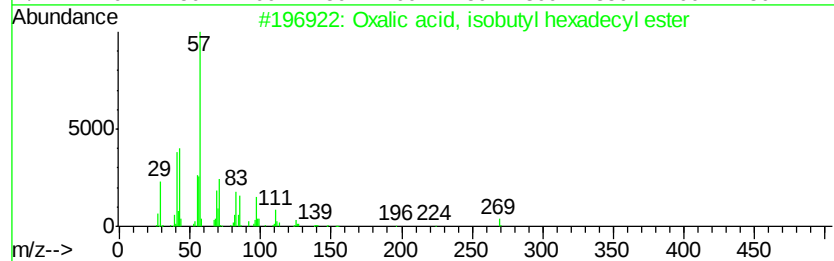
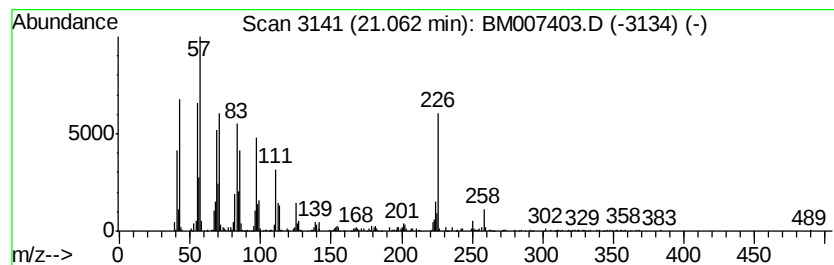
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Quant Title : SVOA CALIBRATION

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

Peak Number 9 Oxalic acid, isobutyl hexad... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.06	3.33 ng/ul	1454640	Chrysene-d12	21.35

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Oxalic acid, isobutyl hexadecyl ...	370	C22H42O4	1000309-38-1	90
2		Cyclohexadecane	224	C16H32	000295-65-8	90
3		Ethanol, 2-(tetradecyloxy)-	258	C16H34O2	002136-70-1	87
4		Cyclohexadecane	224	C16H32	000295-65-8	83
5		1-Decanol, 2-hexyl-	242	C16H34O	002425-77-6	76



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM090316\
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Misc :
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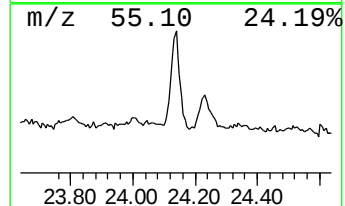
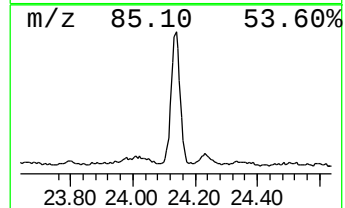
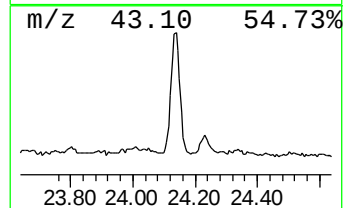
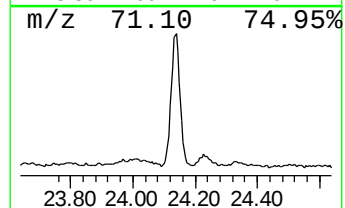
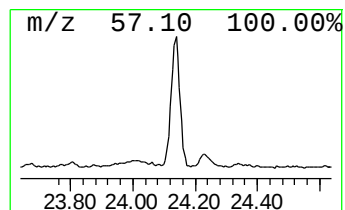
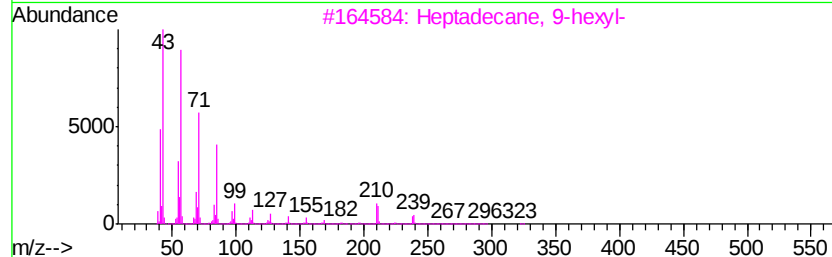
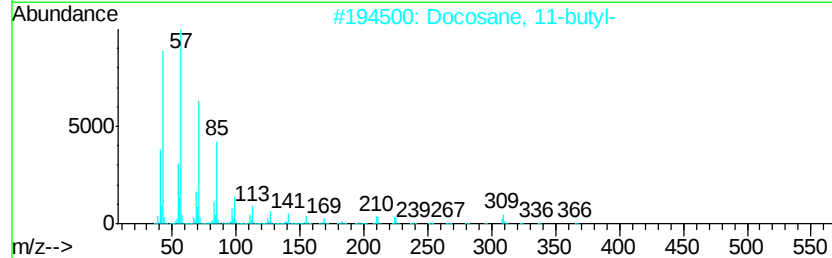
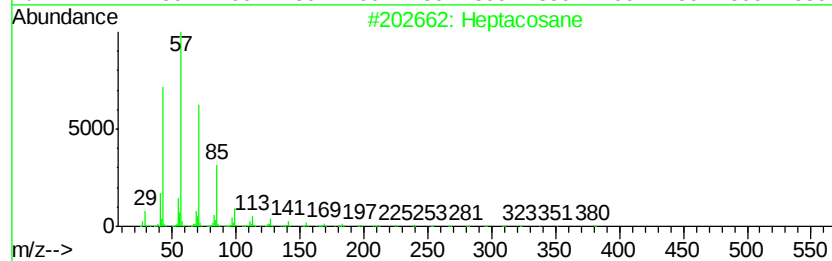
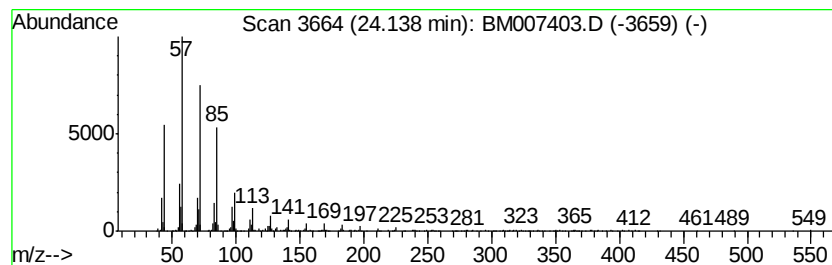
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Quant Title : SVOA CALIBRATION

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

Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.14	5.30 ng/ul	1437820	Perylene-d12	23.63

Hit#	of	Tentative ID	MW	MolForm	CAS#	Qual
1	5	Heptacosane	380	C27H56	000593-49-7	95
2		Docosane, 11-butyl-	366	C26H54	013475-76-8	93
3		Heptadecane, 9-hexyl-	324	C23H48	055124-79-3	93
4		Heneicosane, 11-pentyl-	366	C26H54	014739-72-1	93
5		2-methyloctacosane	408	C29H60	1000376-72-8	91



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM090316\
Data File : BM007403.D
Acq On : 03 Sep 2016 12:34
Operator : UM/SJ
Sample : H4639-08
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
BD385

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
Quant Title : SVOA 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
(DEL) Alkane: Str...	16.13	2.1	ng/ul	476979	4	17.17	4565420	20.0
(DEL) Alkane: Str...	16.93	2.2	ng/ul	502936	4	17.17	4565420	20.0
n-Hexadecanoic acid	18.06	4.2	ng/ul	965955	4	17.17	4565420	20.0
Anthracene, 2-met...	18.09	2.9	ng/ul	651151	4	17.17	4565420	20.0
9,10-Anthracenedione	18.59	2.0	ng/ul	463335	4	17.17	4565420	20.0
Phenanthrene, 2,5...	18.96	2.3	ng/ul	512881	4	17.17	4565420	20.0
Cyclopenta(def)ph...	19.10	2.6	ng/ul	596305	4	17.17	4565420	20.0
11H-Benzo[a]fluor...	20.83	2.2	ng/ul	955715	5	21.35	8735500	20.0
Oxalic acid, isob...	21.06	3.3	ng/ul	1454640	5	21.35	8735500	20.0
(DEL) Alkane: Str...	24.14	5.3	ng/ul	1437820	6	23.63	5426710	20.0