LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN091619\
Data File : BN007688.D
Acq On : 17 Sep 2019 05:26
Operator : HP/JU
Sample : K4633-09
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D07

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.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	3.017	3	5	19	rVB	25150561	30642942	6.67%	0.691%
2	6.875	654	661	672	rBV2	3108272	5680352	1.24%	0.128%
3	7.240	716	723	738	rVB	3261973	5112450	1.11%	0.115%
4	7.705	795	802	811	rBV	2654372	4127536	0.90%	0.093%
5	8.399	914	920	930	rBV	3402359	5512078	1.20%	0.124%
6	8.846	987	996	1011	rBV	2909174	4825772	1.05%	0.109%
7	10.099	1201	1209	1222	rBV	4375980	7116990	1.55%	0.161%
8	10.475	1265	1273	1278	rBV	3718191	6247196	1.36%	0.141%
9	10.610	1288	1296	1318	rVV	2866641	5544584	1.21%	0.125%
10	13.745	1823	1829	1833	rVV	7554534	10394000	2.26%	0.235%
11	14.022	1868	1876	1891	rBV	8701459	13874627	3.02%	0.313%
12	14.334	1920	1929	1934	rBV	6084588	9000176	1.96%	0.203%
13	14.398	1934	1940	1946	rVV	8859365	12704250	2.76%	0.287%
14	14.522	1955	1961	1969	rBV	2853695	4578864	1.00%	0.103%
15	15.328	2091	2098	2103	rBV	11505479	16173598	3.52%	0.365%
16	15.381	2103	2107	2113	rVV	3662427	5125919	1.12%	0.116%
17	16.728	2331	2336	2345	rVB	3173654	4691803	1.02%	0.106%
18	16.892	2359	2364	2374	rVV	2925315	4393772	0.96%	0.099%
19	17.081	2390	2396	2398	rBV	7019746	10271741	2.24%	0.232%
20	17.128	2398	2404	2408	rVV2	44385677	71776806	15.62%	1.619%
21	17.181	2408	2413	2415	rVV	12833741	18399784	4.00%	0.415%
22	17.210	2415	2418	2423	rVV	14911881	20234736	4.40%	0.457%
23	17.263	2423	2427	2435	rVB2	3379129	5167371	1.12%	0.117%
24	17.475	2453	2463	2468	rBV2	10841287	19214371	4.18%	0.434%
25	17.951	2534	2544	2548	rBV	5743544	9287068	2.02%	0.210%
26	17.998	2548	2552	2557	rVV	10488188	15383144	3.35%	0.347%
27	18.081	2561	2566	2571	rVB	3106487	4552604	0.99%	0.103%
28	18.145	2571	2577	2581	rBV2	9922676	17383090	3.78%	0.392%
29	18.180	2581	2583	2588	rVV	3599070	4742993	1.03%	0.107%
30	18.457	2625	2630	2633	rVV	5898632	7949929	1.73%	0.179%
31	18.498	2633	2637	2643	rVB	6894249	9255862	2.01%	0.209%
32	18.892	2696	2704	2709	rBV3	4010237	9603300	2.09%	0.217%
33	19.028	2721	2727	2733	rVB	7799562	11684688	2.54%	0.264%
34	19.163	2740	2750	2755	rBV2	71513083	154325916	33.58%	3.482%

LSC Area Percent Report

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Sample : K4633-09
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D07

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Title : SVOA CALIBRATION

35	19.292	2767	2772	2776	rVB	3102499	4957285	1.08%	0.112%
36	19.380	2776	2787	2793	rBV2	6412349	16128594	3.51%	0.364%
37	19.533	2799	2813	2817	rBV5	70548495	210582253	45.82%	4.751%
38	19.580	2817	2821	2828	rVB	6502575	9698544	2.11%	0.219%
39	19.692	2834	2840	2844	rBV	10333722	14290304	3.11%	0.322%
40	19.751	2844	2850	2855	rVB	26000073	38005572	8.27%	0.857%
41	19.833	2857	2864	2870	rBV3	9243998	24195510	5.26%	0.546%
42	19.886	2870	2873	2877	rVB	4149401	5002162	1.09%	0.113%
43	19.969	2877	2887	2889	rBV5	11045260	22933986	4.99%	0.517%
44	20.010	2890	2894	2898	rVB	17483345	25589998	5.57%	0.577%
45	20.051	2898	2901	2905	rBV	3529659	4373896	0.95%	0.099%
46	20.110	2906	2911	2914	rVV	11644620	15380865	3.35%	0.347%
47	20.163	2914	2920	2924	rVV2	16278666	28711184	6.25%	0.648%
48	20.204	2924	2927	2931	rVV	5843931	7416194	1.61%	0.167%
49	20.304	2939	2944	2948	rBV	9326500	12335499	2.68%	0.278%
50	20.351	2948	2952	2956	rVB2	7696741	10395001	2.26%	0.235%
51	20.427	2961	2965	2970	rVV3	2583964	4127225	0.90%	0.093%
52	20.574	2984	2990	2991	rBV4	3458490	5920072	1.29%	0.134%
53	20.763	3017	3022	3028	rVB	25929925	38156401	8.30%	0.861%
54	20.927	3042	3050	3053	rBV2	40380259	64259633	13.98%	1.450%
55	20.963	3053	3056	3060	rVV	28550697	40135030	8.73%	0.906%
56	21.004	3060	3063	3068	rVV2	29541887	49964301	10.87%	1.127%
57	21.069	3071	3074	3082	rVB	24790374	36154033	7.87%	0.816%
58	21.163	3083	3090	3099	rBV	10621879	20559358	4.47%	0.464%
59	21.286	3099	3111	3115	rBV3	81146906	248793086	54.14%	5.613%
60	21.351	3116	3122	3128	rVB4	86779444	200608459	43.65%	4.526%
61	21.410	3128	3132	3135	rBV	6188727	7475143	1.63%	0.169%
62	21.451	3135	3139	3142	rBV2	18662745	27281980	5.94%	0.616%
63	21.492	3142	3146	3149	rVV	18481310	28762595	6.26%	0.649%
64	21.545	3152	3155	3159	rVB2	15081794	20639592	4.49%	0.466%
65	21.598	3159	3164	3169	rBV	45310966	65320698	14.21%	1.474%
66	21.651	3169	3173	3176	rBV2	7197081	9698138	2.11%	0.219%
67	21.780	3190	3195	3198	rBV2	10584477	17905197	3.90%	0.404%
68	21.833	3198	3204	3208	rVV	19497844	39708611	8.64%	0.896%
69	21.892	3209	3214	3219	rVB2	18570040	31685871	6.89%	0.715%
70	21.951	3219	3224	3228	rBV3	12088362	19151114	4.17%	0.432%
71	22.033	3234	3238	3240	rBV2	10617481	16236976	3.53%	0.366%

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ClientSampleId : F2D07

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
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Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Title : SVOA CALIBRATION

72	22.127	3249	3254	3259	rBV2	16155505	24453182	5.32%	0.552%
73	22.210	3264	3268	3273	rVB	3941221	5717573	1.24%	0.129%
74	22.327	3282	3288	3298	rBV7	7563877	22803178	4.96%	0.514%
75	22.480	3312	3314	3320	rVB3	3212703	4570041	0.99%	0.103%
76	22.569	3322	3329	3330	rBV4	4332087	8650489	1.88%	0.195%
77	22.621	3331	3338	3345	rVB	19180548	49333944	10.74%	1.113%
78	22.798	3361	3368	3372	rBV2	15670900	37560519	8.17%	0.847%
79	22.939	3373	3392	3395	rVV8	85338254	459558150	100.00%	10.368%
80	22.992	3399	3401	3406	rVB	17816688	21207836	4.61%	0.478%
81	23.057	3406	3412	3416	rBV	27643466	47785574	10.40%	1.078%
82	23.174	3425	3432	3440	rBV3	18121551	51761883	11.26%	1.168%
83	23.410	3455	3472	3477	rBV8	73088116	337408816	73.42%	7.613%
84	23.510	3478	3489	3494	rVB6	75841753	230768785	50.22%	5.207%
85	23.621	3500	3508	3513	rVB3	48519118	110124963	23.96%	2.485%
86	23.927	3556	3560	3567	rVB4	4890739	9281784	2.02%	0.209%
87	24.021	3571	3576	3580	rVV	9815156	19831058	4.32%	0.447%
88	24.080	3581	3586	3593	rVB	9472805	20255784	4.41%	0.457%
89	24.315	3622	3626	3634	rVV3	5068467	11165522	2.43%	0.252%
90	24.398	3635	3640	3652	rVB4	7766869	19586348	4.26%	0.442%
91	24.880	3715	3722	3731	rBV3	9480773	26906760	5.85%	0.607%
92	25.098	3752	3759	3770	rBV3	7727353	36932639	8.04%	0.833%
93	25.321	3792	3797	3807	rVB2	13038761	35832837	7.80%	0.808%
94	25.498	3819	3827	3833	rVB2	14760303	41418155	9.01%	0.934%
95	25.574	3834	3840	3851	rVB2	10691555	28924590	6.29%	0.653%
96	25.868	3868	3890	3892	rBV4	57465921	273204615	59.45%	6.164%
97	26.074	3913	3925	3932	rBV2	18280744	61061046	13.29%	1.378%
98	26.180	3933	3943	3956	rVV3	22759439	87251762	18.99%	1.969%
99	26.615	3989	4017	4024	rBV3	49620159	310677224	67.60%	7.009%
100	26.886	4053	4063	4078	rVB2	11477547	50722504	11.04%	1.144%

Sum of corrected areas: 4432278233

LSC Report - Integrated Chromatogram

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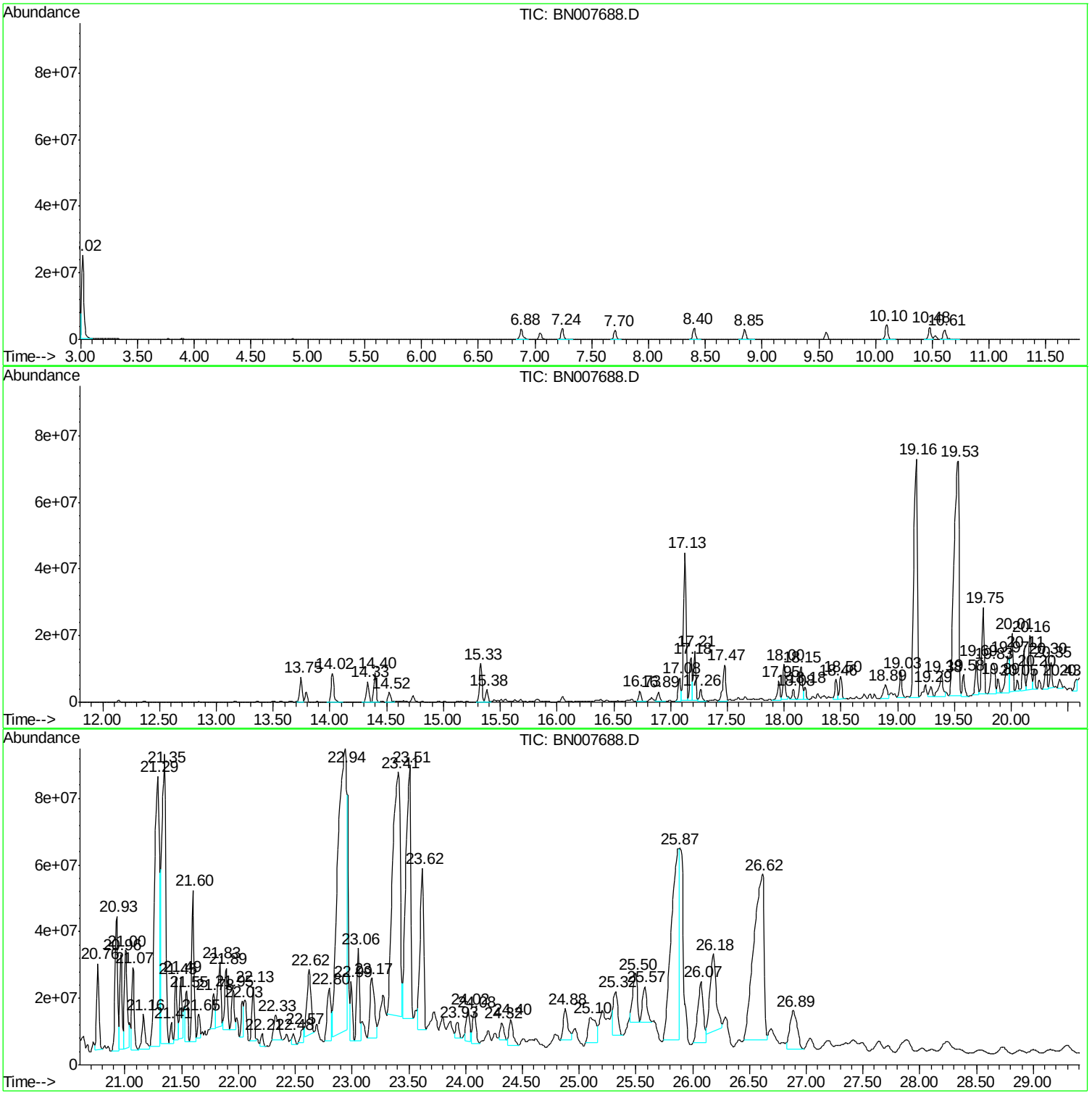
Sample : K4633-09
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN091619\
Data File : BN007688.D
Acq On : 17 Sep 2019 05:26
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Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

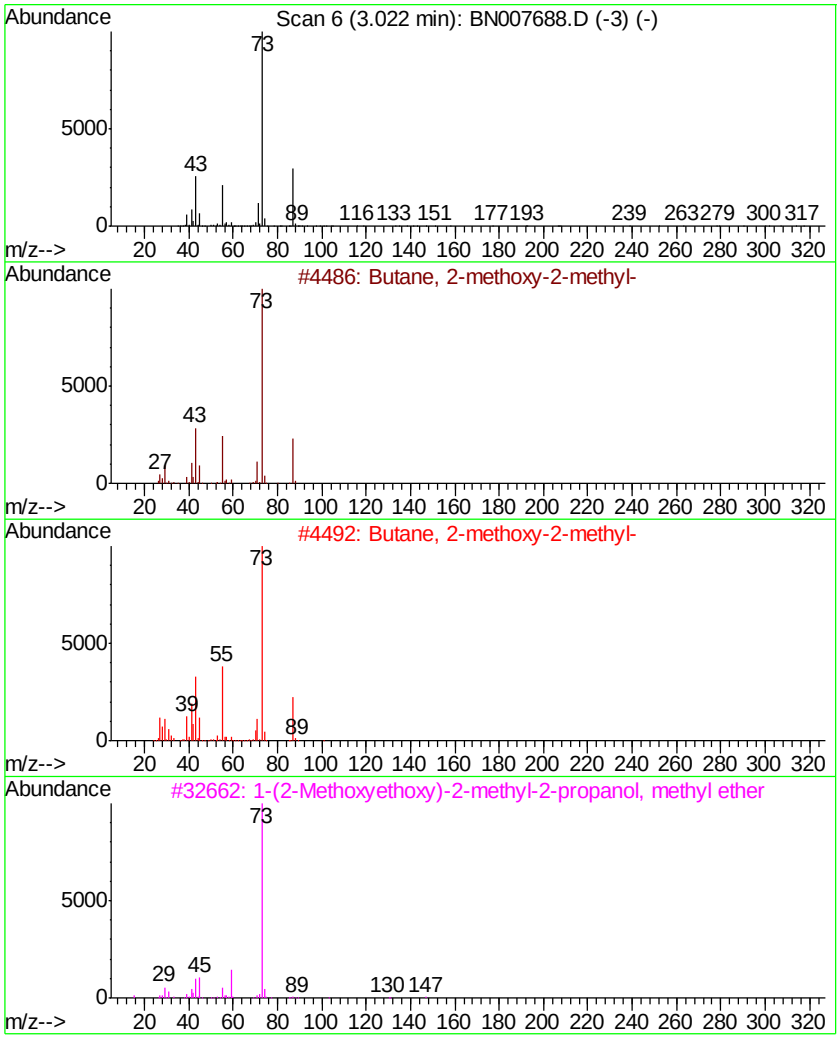
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

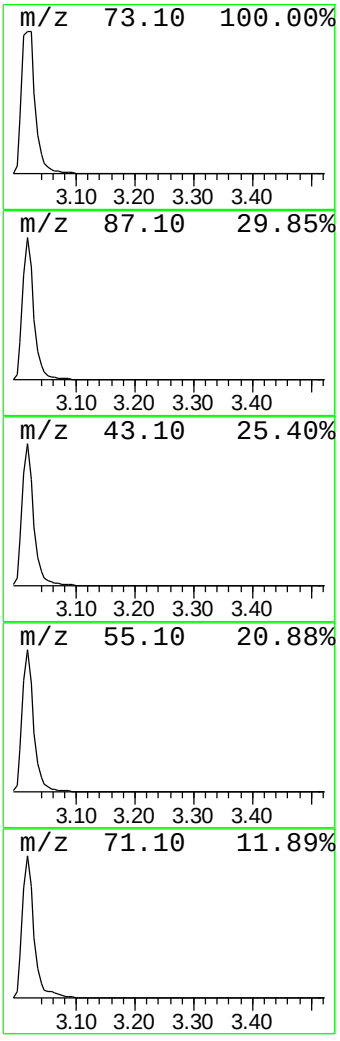
****

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.02	148.48 ng/ul	30642900	1,4-Dichlorobenzene-d4	7.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	74
2	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	72
3	1-(2-Methoxyethoxy)-2-methyl-2-p...	162	C8H18O3	1000364-24-4	12
4	Silane, tetramethyl-	88	C4H12Si	000075-76-3	12
5	N-Ethylformamide	73	C3H7NO	000627-45-2	9





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Sample : K4633-09
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ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

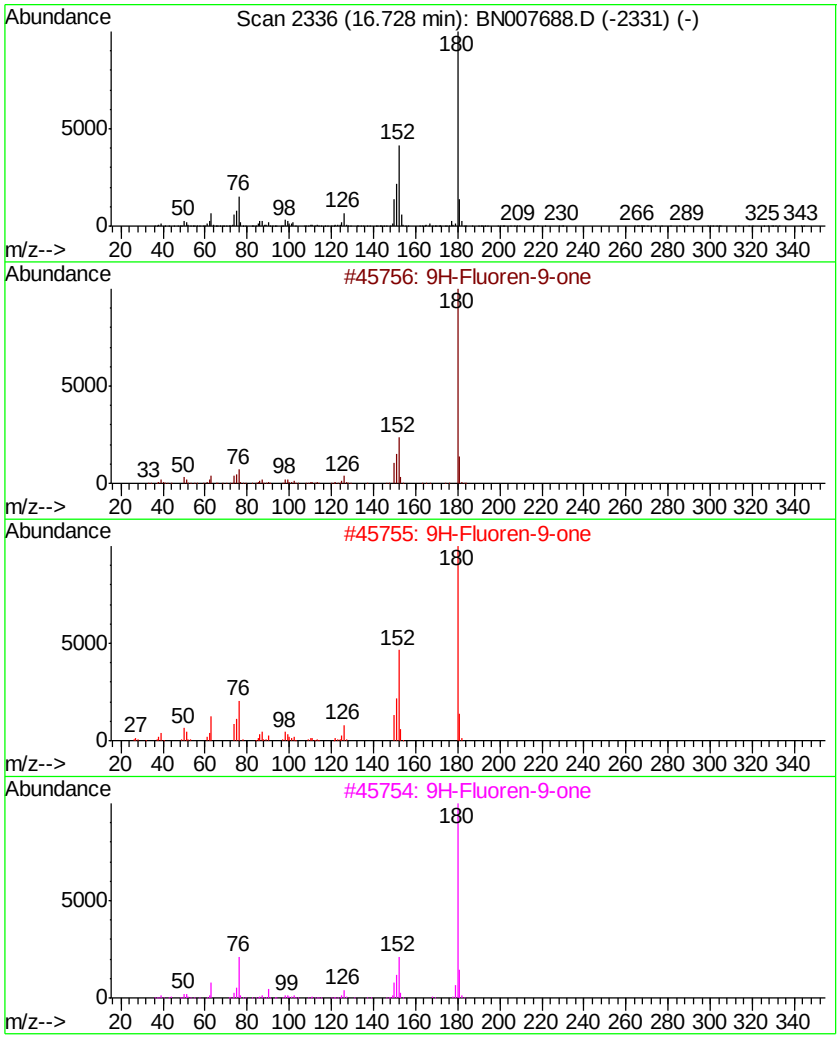
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

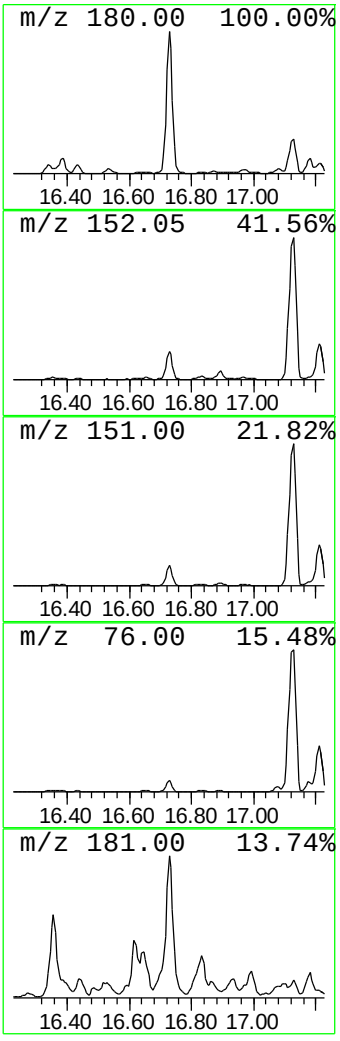
****

Peak Number 2 9H-Fluoren-9-one Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.73	9.14 ng/ul	4691800	Phenanthrene-d10	17.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	95
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	91
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	81





Library Search Compound Report

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Acq On : 17 Sep 2019 05:26
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ClientSampleId : F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

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

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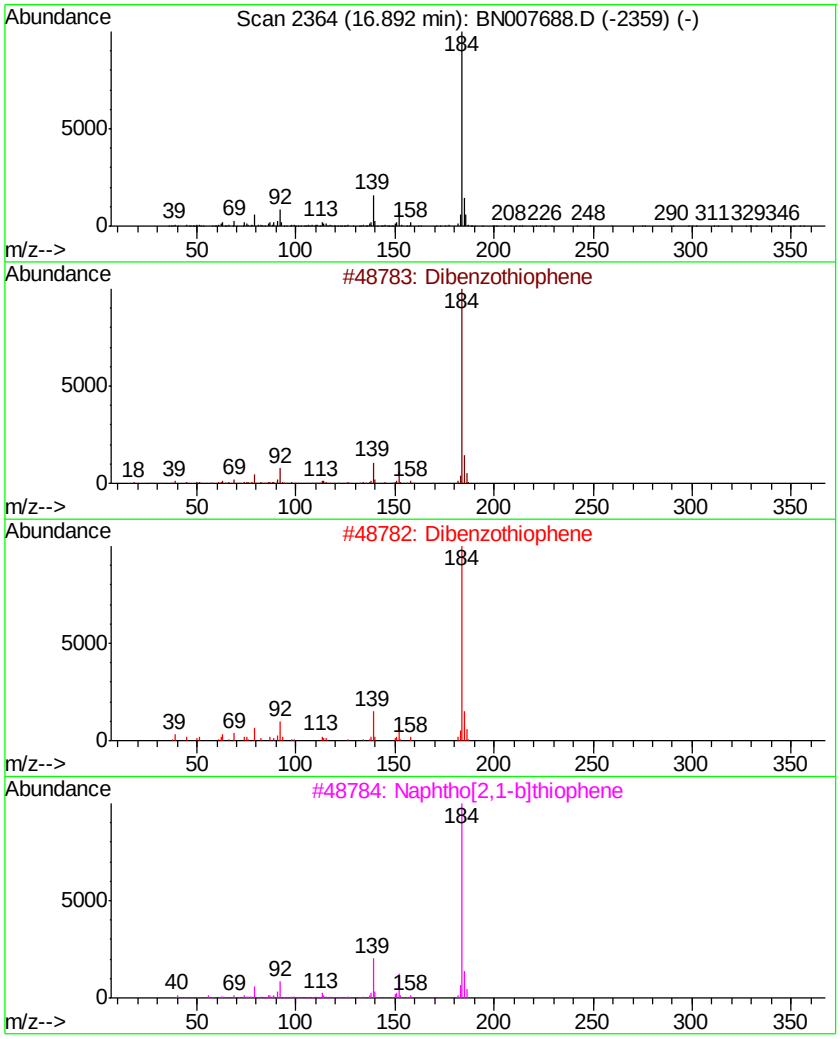
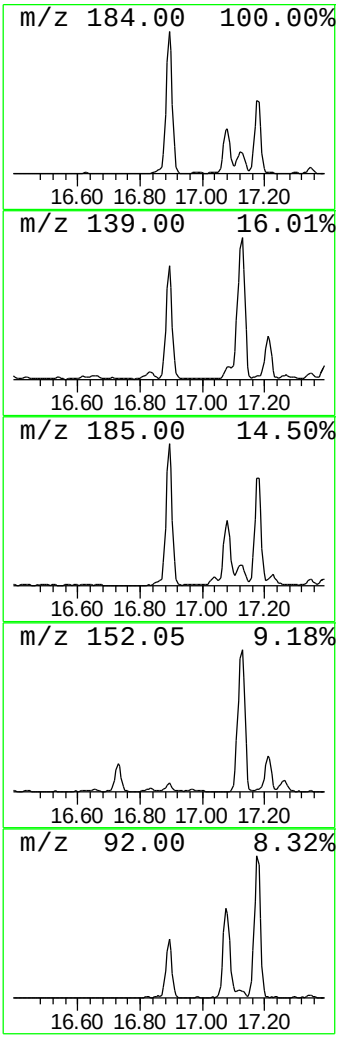
Peak Number 3 Dibenzothiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.89	8.56 ng/ul	4393770	Phenanthrene-d10	17.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Dibenzothiophene	184	C12H8S	000132-65-0	96
3	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	95
4	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	94
5	Dibenzothiophene	184	C12H8S	000132-65-0	94





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Acq On : 17 Sep 2019 05:26
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Sample : K4633-09
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

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

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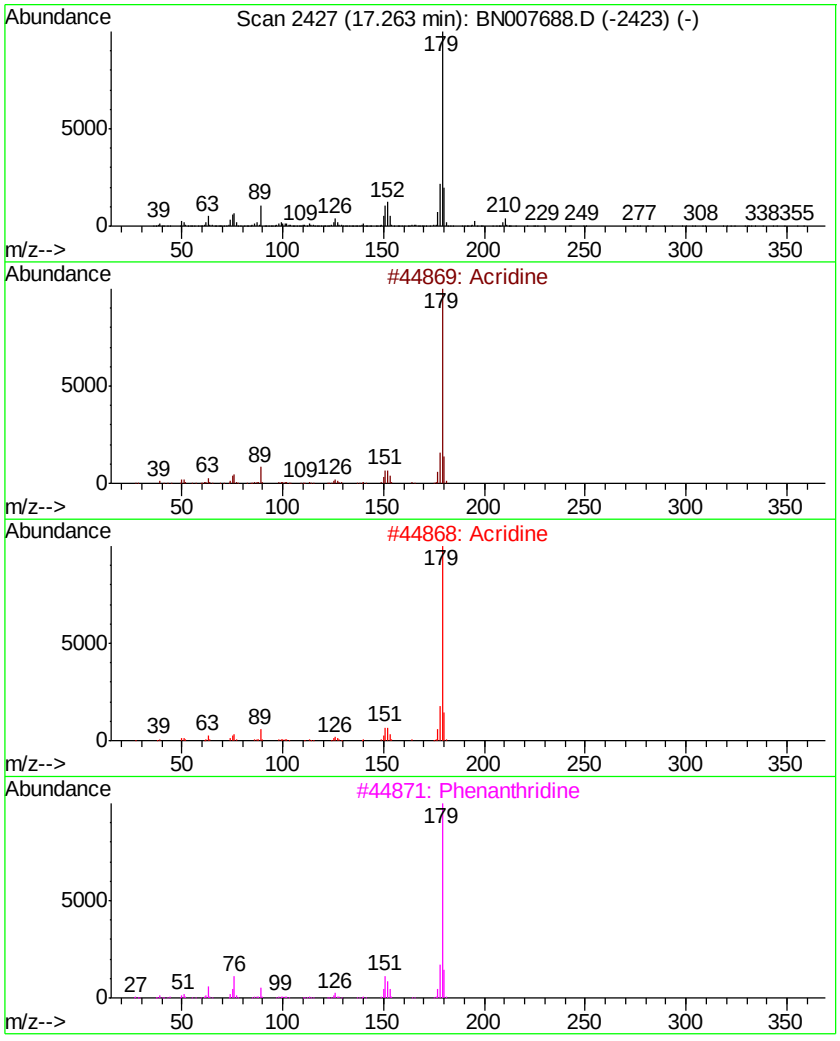
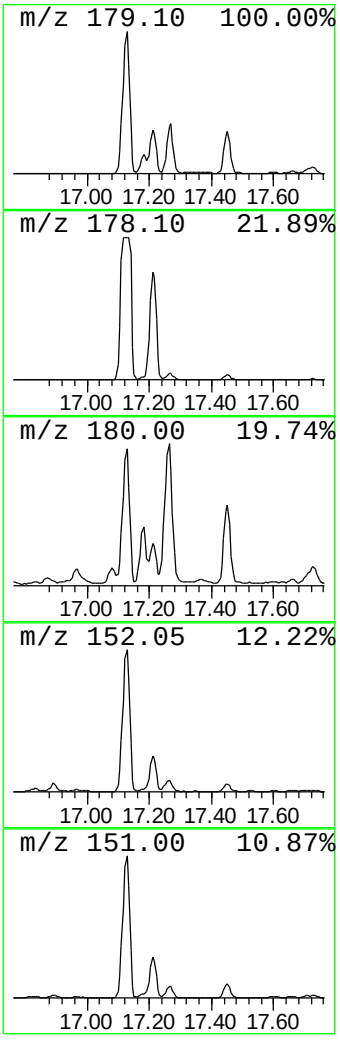
Peak Number 4 Acridine Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.26	10.06 ng/ul	5167370	Phenanthrene-d10	17.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acridine	179	C13H9N	000260-94-6	96
2	Acridine	179	C13H9N	000260-94-6	95
3	Phenanthridine	179	C13H9N	000229-87-8	94
4	Acridine	179	C13H9N	000260-94-6	93
5	Phenanthridine	179	C13H9N	000229-87-8	93





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Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

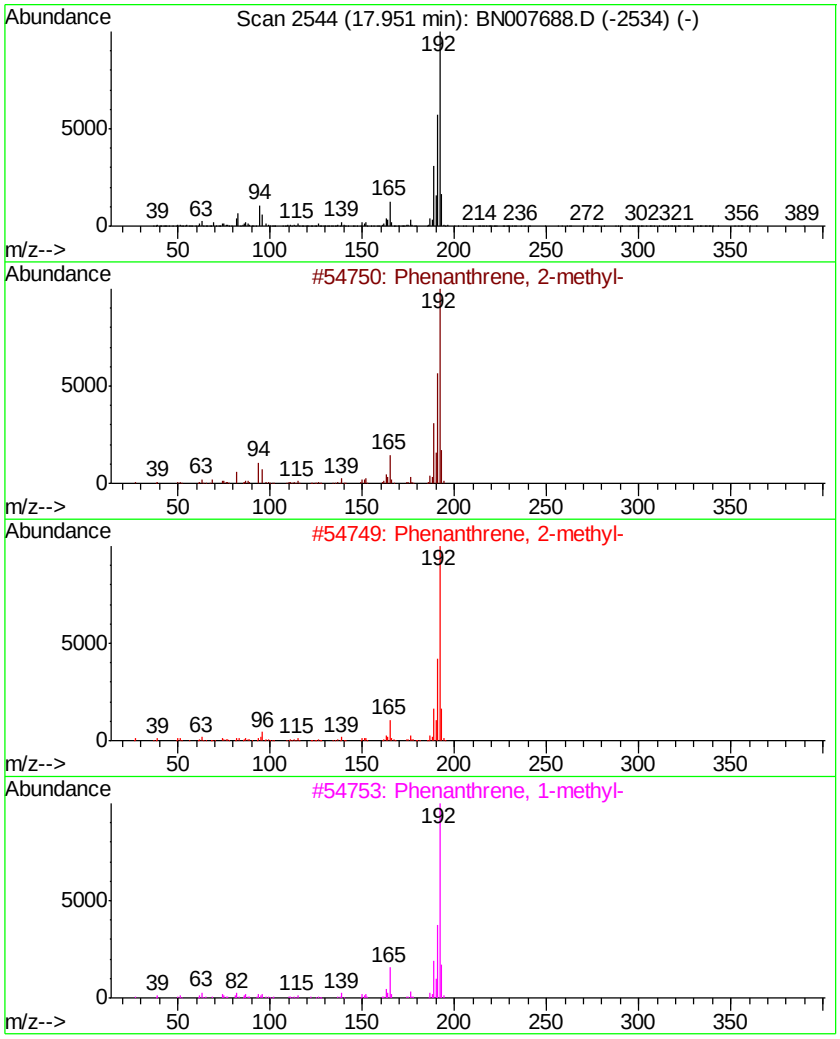
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

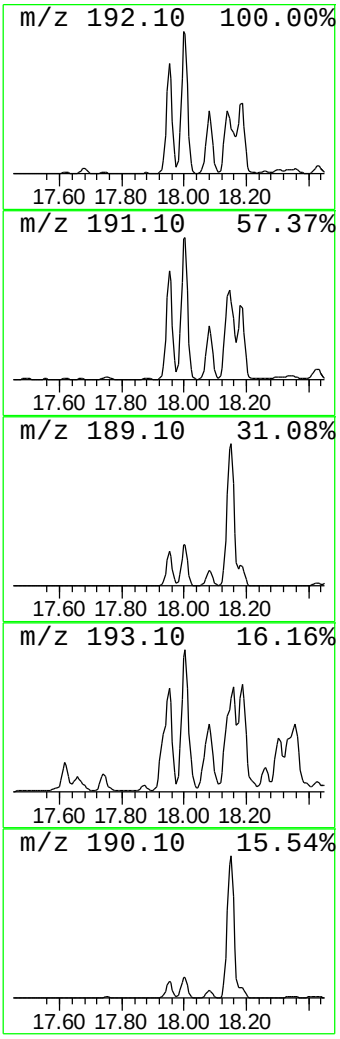
****

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.95	18.08 ng/ul	9287070	Phenanthrene-d10	17.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95





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Misc :
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Instrument : BNA_N
ClientSampleId : F2D07

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Quant Title : SVOA CALIBRATION

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

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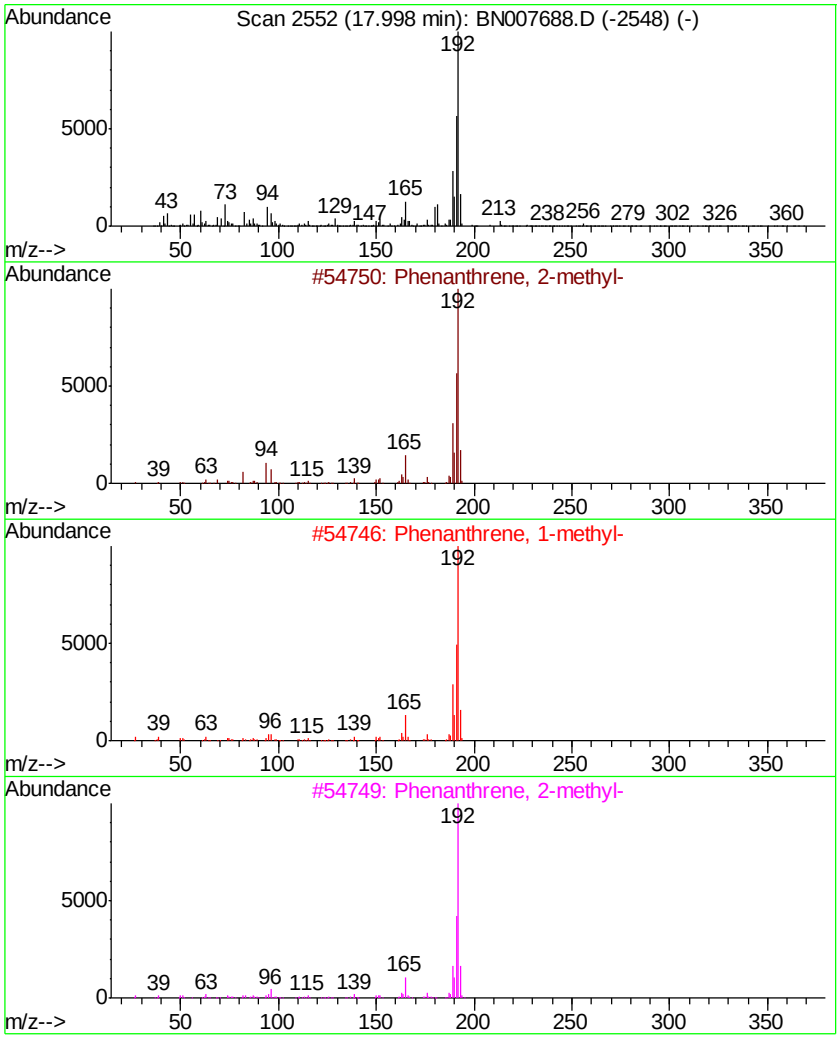
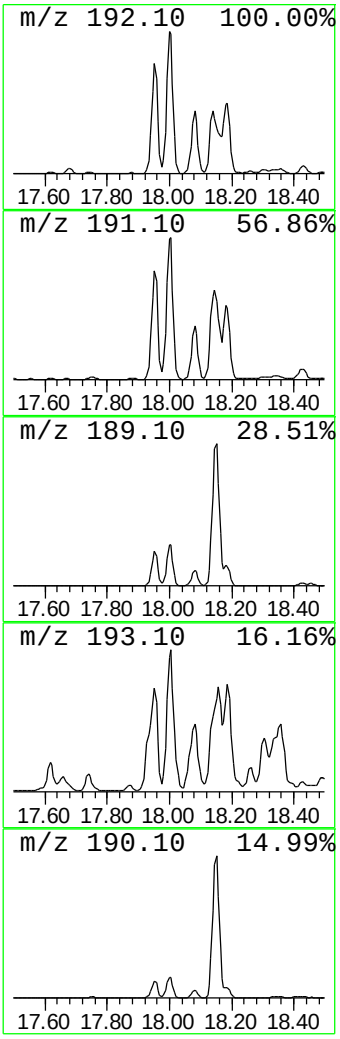
Peak Number 6 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.00	29.95 ng/ul	15383100	Phenanthrene-d10	17.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	98
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96





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Quant Title : SVOA CALIBRATION

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

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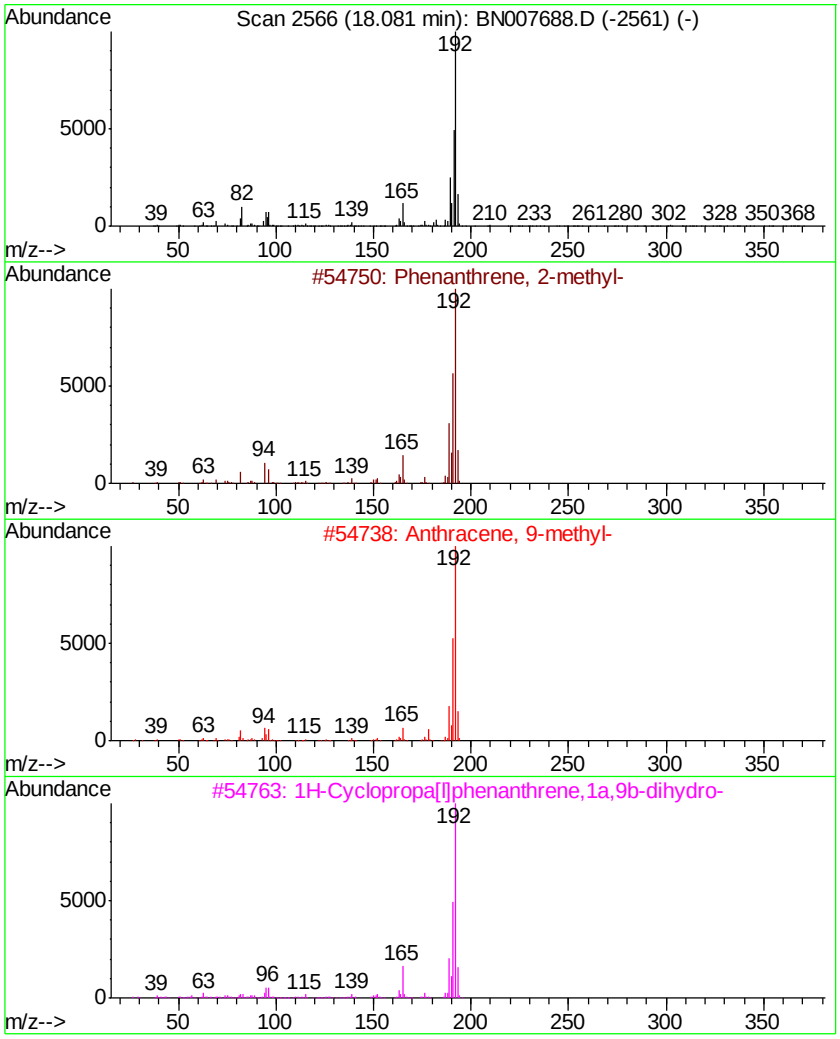
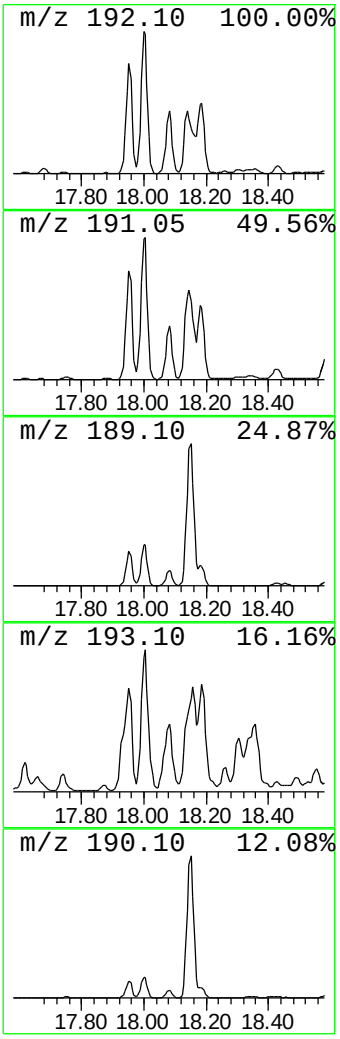
Peak Number 7 Anthracene, 9-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.08	8.86 ng/ul	4552600	Phenanthrene-d10	17.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	96
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95





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Quant Title : SVOA CALIBRATION

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

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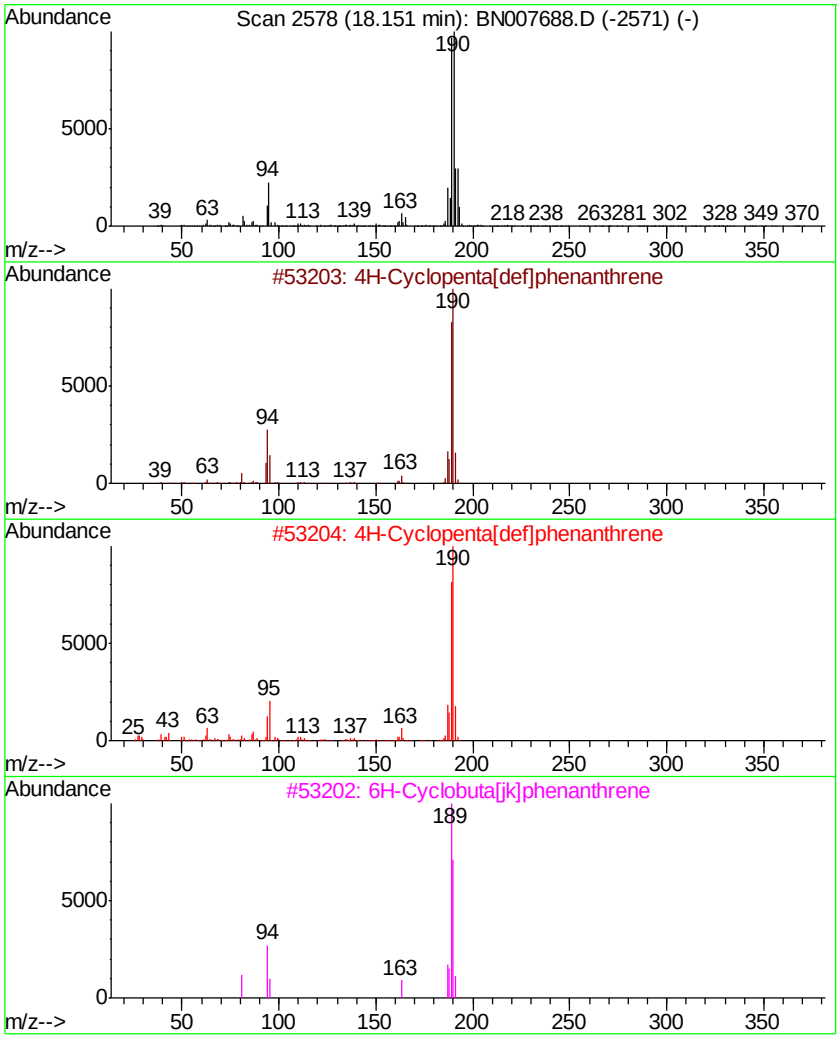
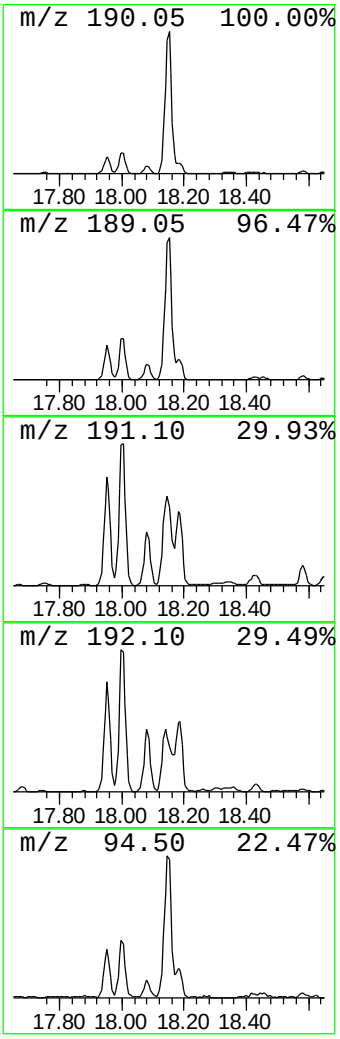
Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.15	33.85 ng/ul	17383100	Phenanthrene-d10	17.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	94
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	59
4	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	52
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	47





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Quant Title : SVOA CALIBRATION

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

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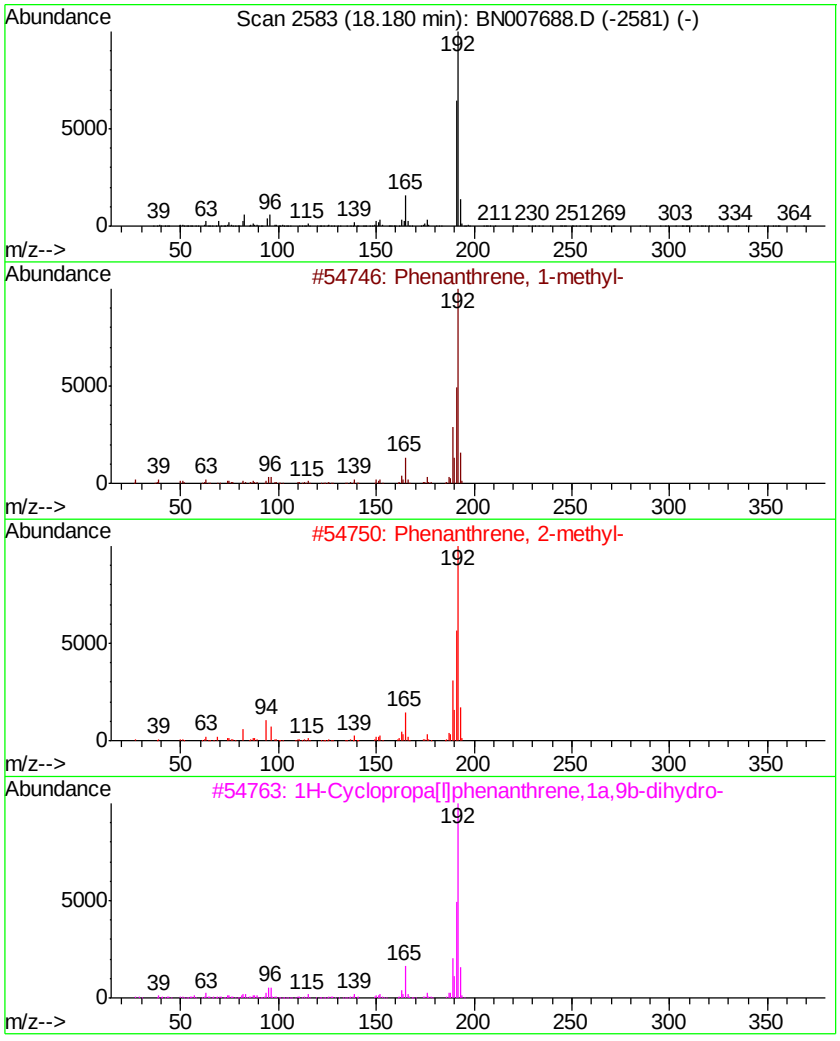
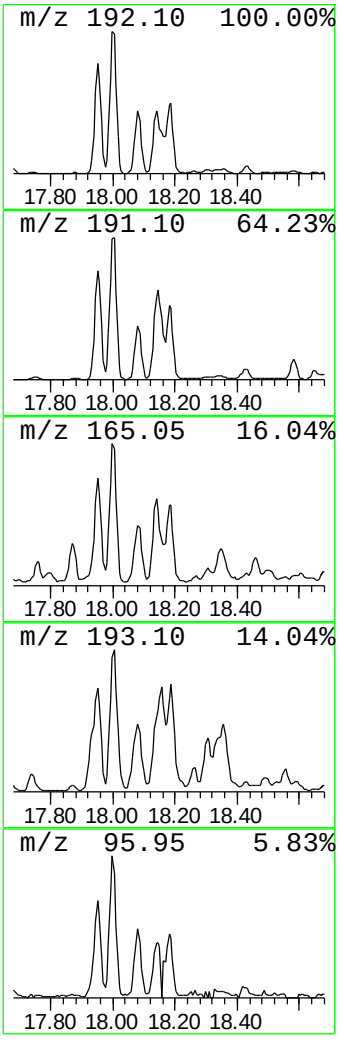
Peak Number 9 1H-Cyclopropa[l]phenanthren... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.18	9.24 ng/ul	4742990	Phenanthrene-d10	17.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	91
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	91
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





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Quant Title : SVOA CALIBRATION

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

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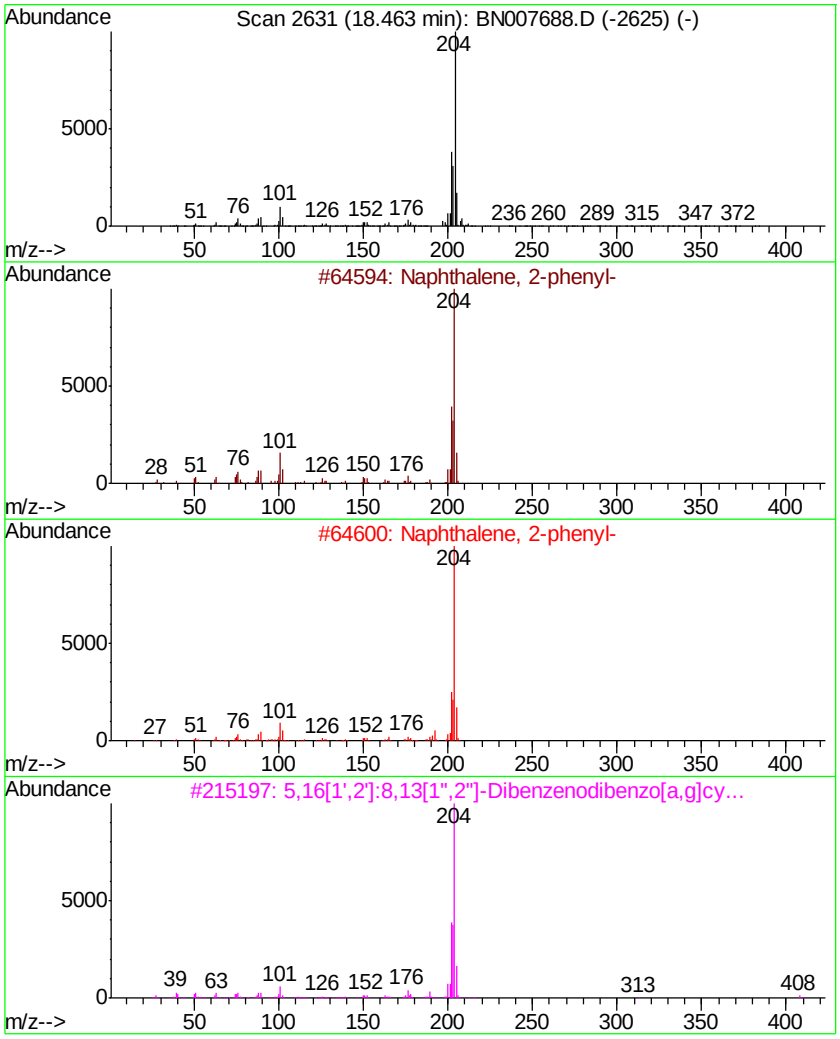
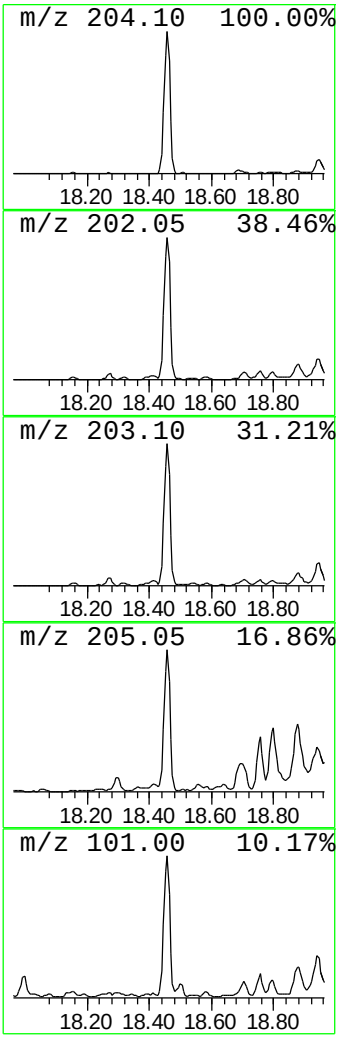
Peak Number 10 Naphthalene, 2-phenyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.46	15.48 ng/ul	7949930	Phenanthrene-d10	17.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	90
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	86
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	81
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	81





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ALS Vial : 28 Sample Multiplier: 1

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ClientSampleId : F2D07

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Quant Title : SVOA CALIBRATION

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

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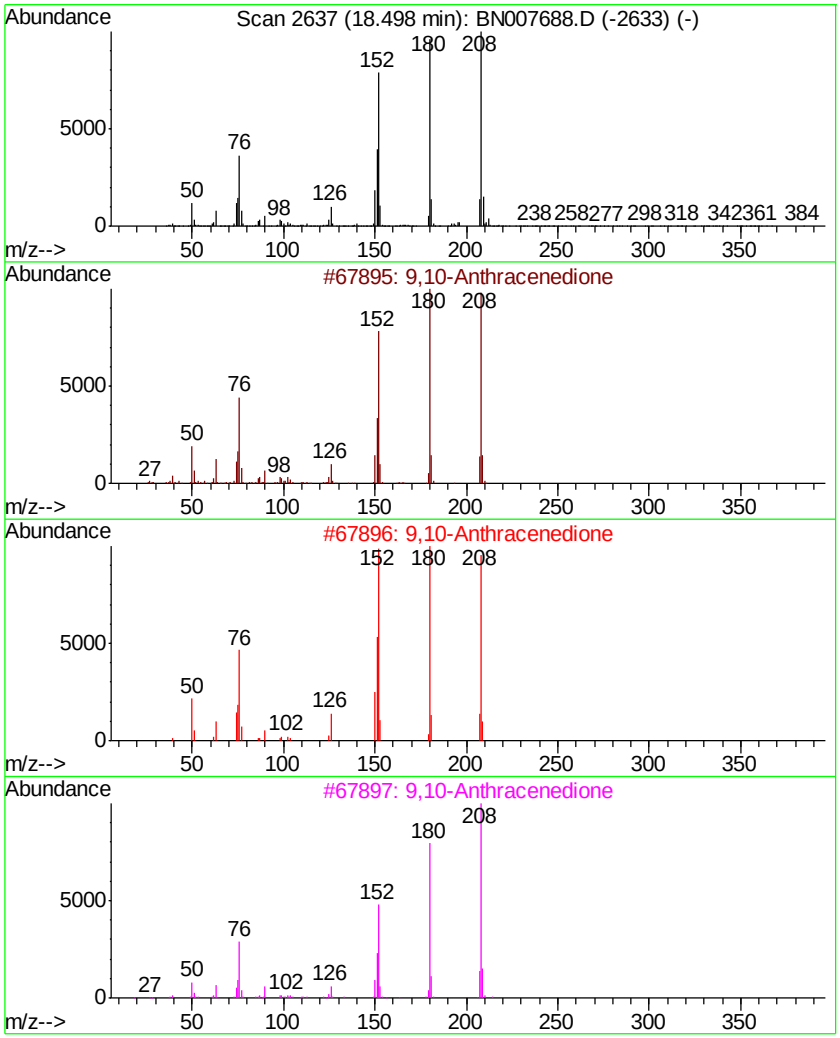
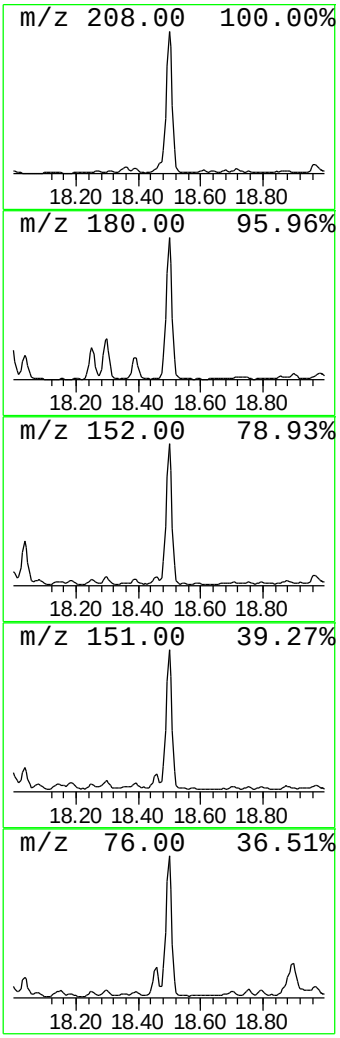
Peak Number 11 Benzo[c]cinnoline Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.50	18.02 ng/ul	9255860	Phenanthrene-d10	17.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	70
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	60





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ClientSampleId : F2D07

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Quant Title : SVOA CALIBRATION

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

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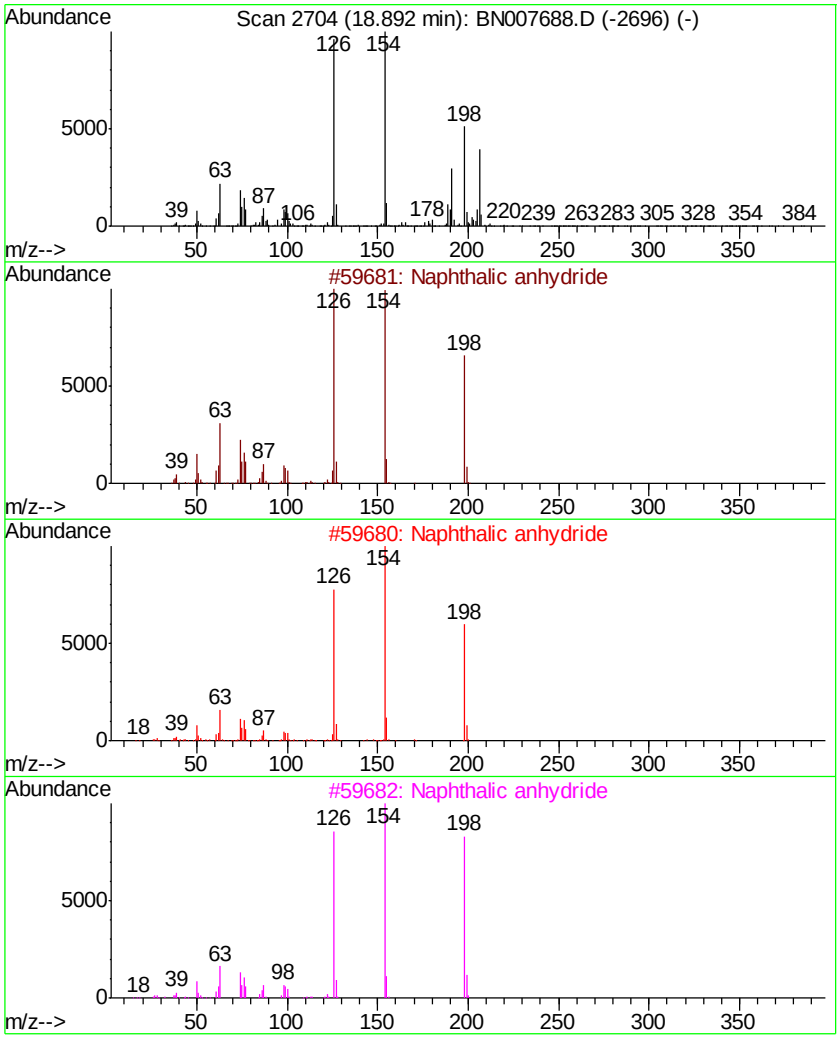
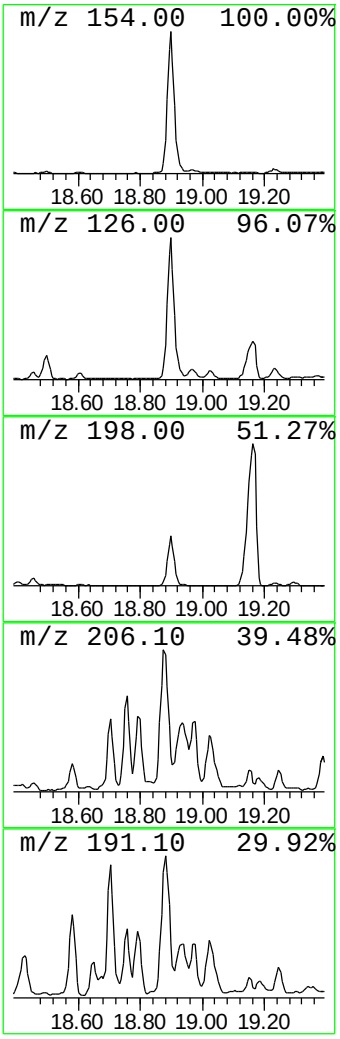
Peak Number 12 Naphthalic anhydride Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.89	18.70 ng/ul	9603300	Phenanthrene-d10	17.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalic anhydride	198	C12H6O3	000081-84-5	99
2	Naphthalic anhydride	198	C12H6O3	000081-84-5	97
3	Naphthalic anhydride	198	C12H6O3	000081-84-5	97
4	Naphthalic anhydride	198	C12H6O3	000081-84-5	93
5	Naphthalic anhydride	198	C12H6O3	000081-84-5	70





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Quant Title : SVOA CALIBRATION

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

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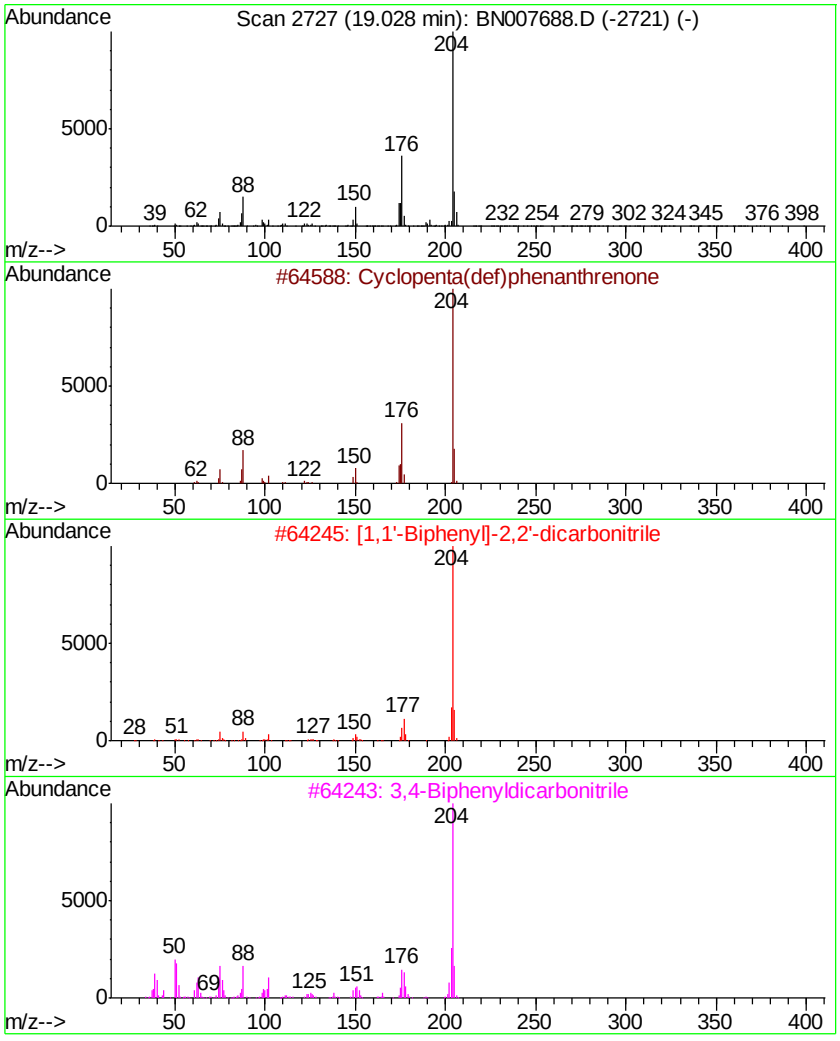
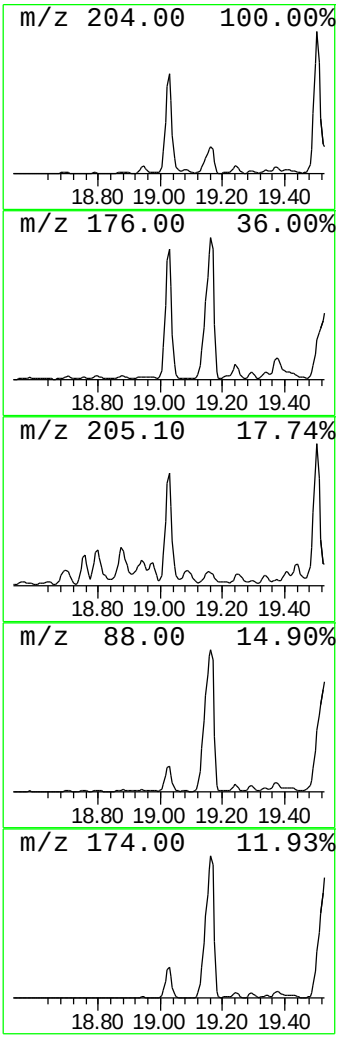
Peak Number 13 Cyclopenta(def)phenanthrenone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.03	22.75 ng/ul	11684700	Phenanthrene-d10	17.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	97
2	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	59
3	3,4-Biphenyldicarbonitrile	204	C14H8N2	004128-63-6	59
4	(E)-Ethyl 3-oxo-2-(pyrid-2-yl)me...	219	C12H13NO3	1000147-59-7	50
5	Ethyl 2,3,4,6-tetrakis-O-(trimet...	496	C20H48O6Si4	1000365-90-0	47





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Quant Title : SVOA CALIBRATION

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

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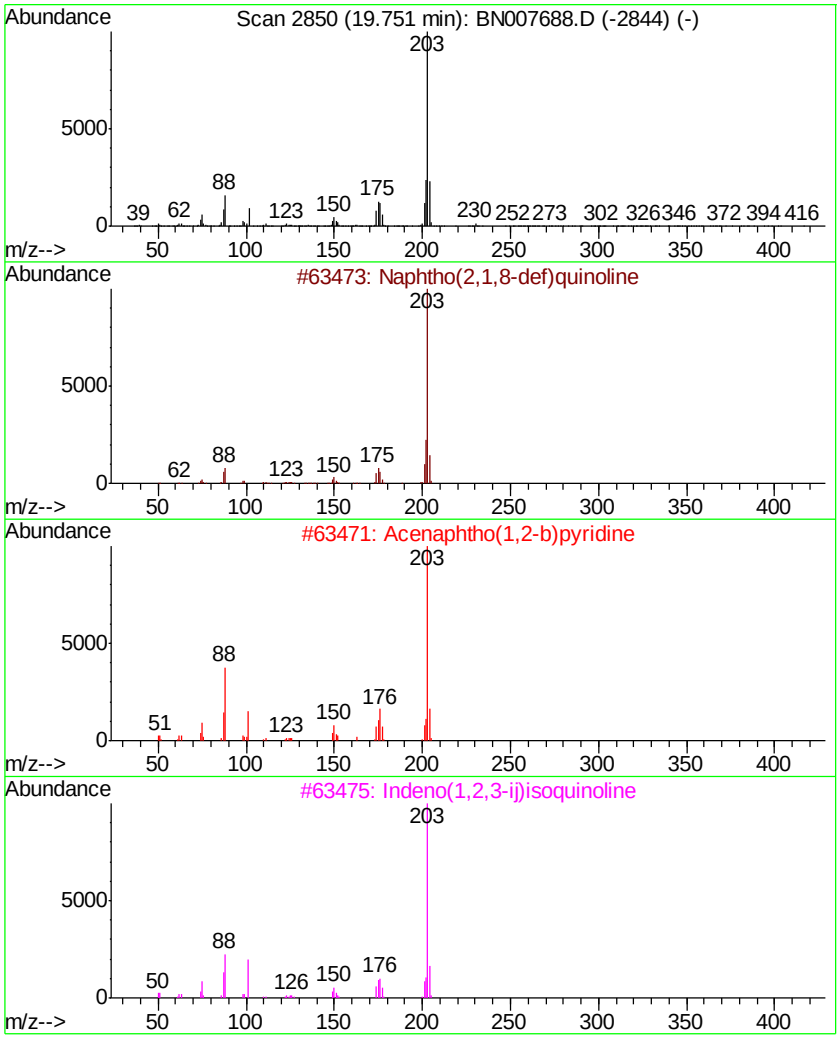
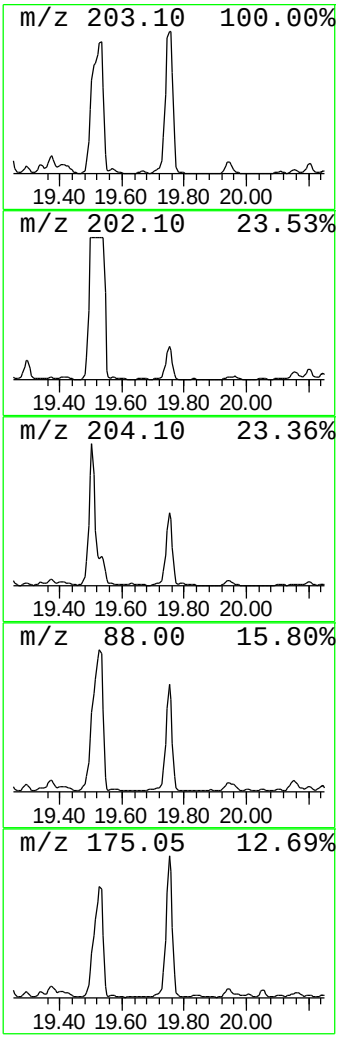
Peak Number 14 Naphtho(2,1,8-def)quinoline Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.75	3.06 ng/ul	38005600	Chrysene-d12	21.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho(2,1,8-def)quinoline	203	C15H9N	000313-80-4	94
2	Acenaphtho(1,2-b)pyridine	203	C15H9N	000206-49-5	93
3	Indeno(1,2,3-ij)isoquinoline	203	C15H9N	000206-56-4	93
4	Indeno(1,2,3-ij)isoquinoline	203	C15H9N	000206-56-4	93
5	9-Anthracenecarbonitrile	203	C15H9N	001210-12-4	93





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Quant Title : SVOA CALIBRATION

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

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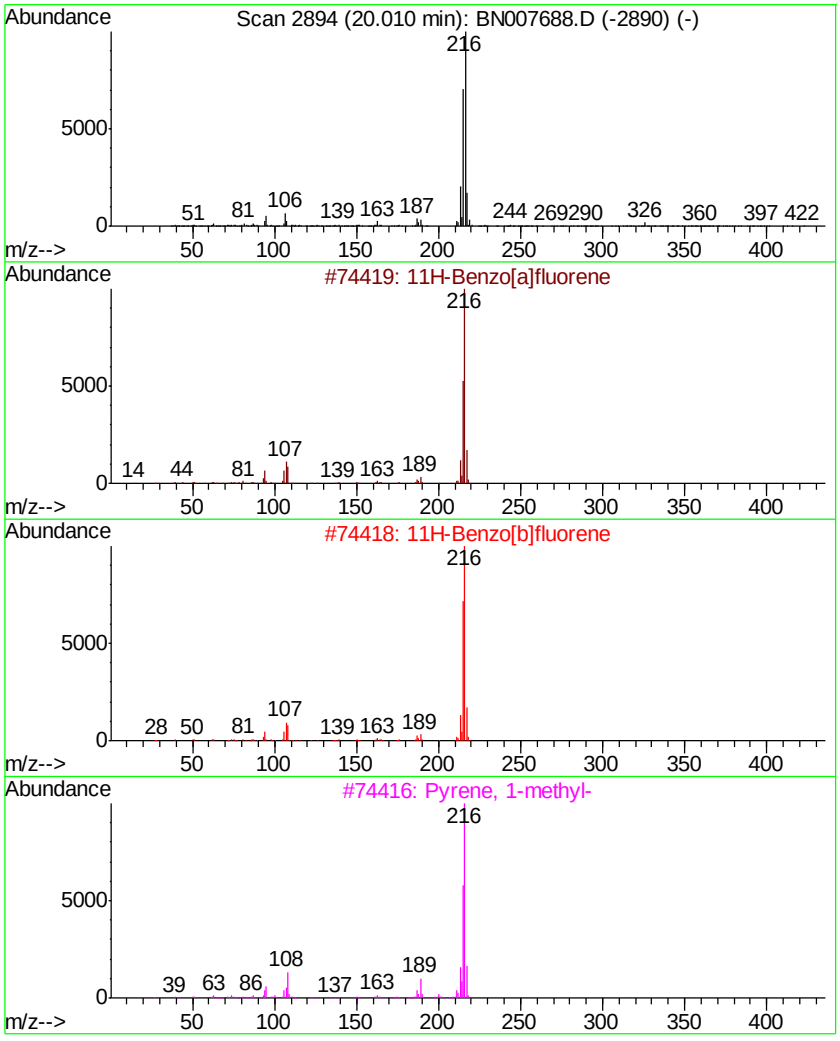
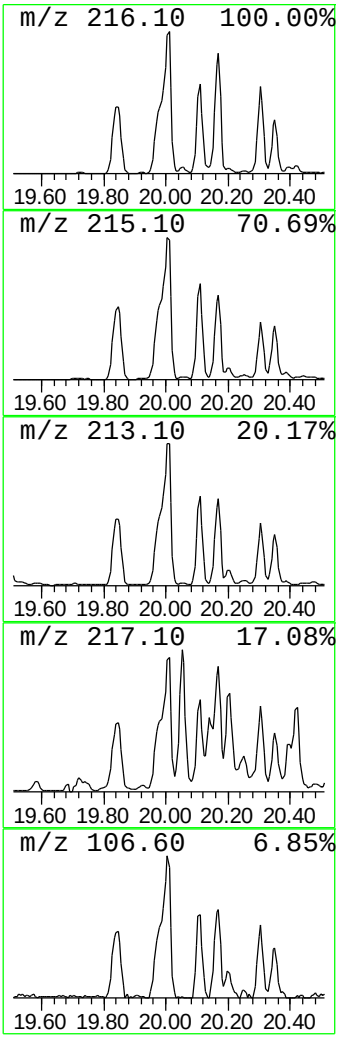
Peak Number 15 11H-Benzo[a]fluorene Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.01	2.06 ng/ul	25590000	Chrysene-d12	21.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	87
5	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	83





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

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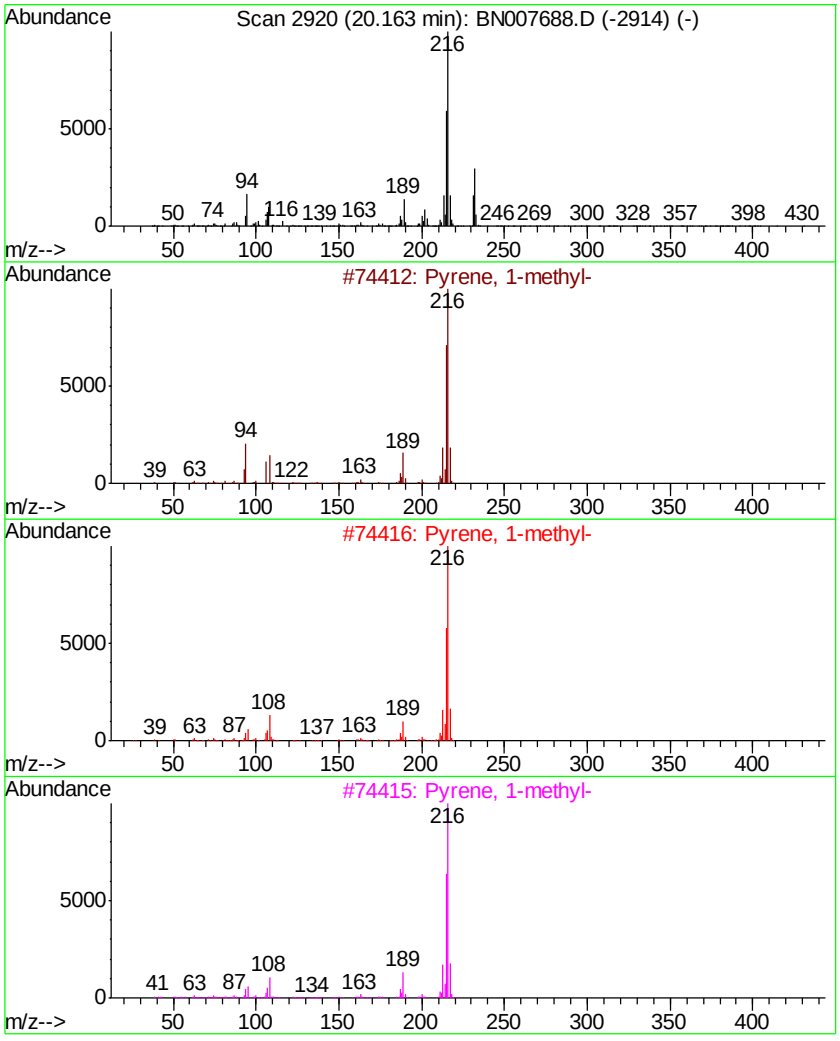
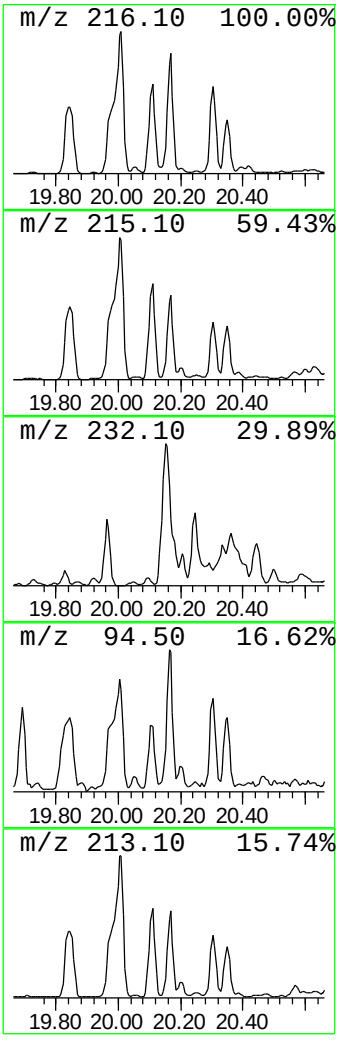
Peak Number 16 Pyrene, 1-methyl- Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.16	2.31 ng/ul	28711200	Chrysene-d12	21.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	98
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
5	Pyrene, 4-methyl-	216	C17H12	003353-12-6	93





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Misc :
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Instrument : BNA_N
ClientSampleId : F2D07

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Quant Title : SVOA CALIBRATION

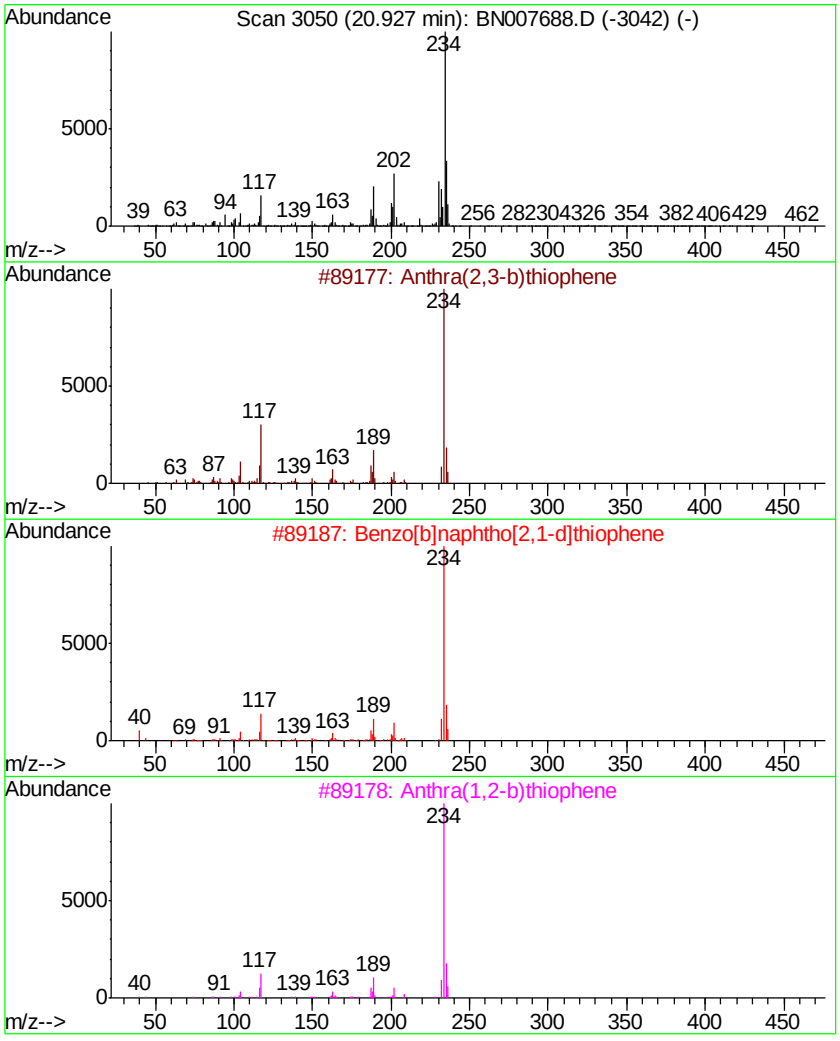
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

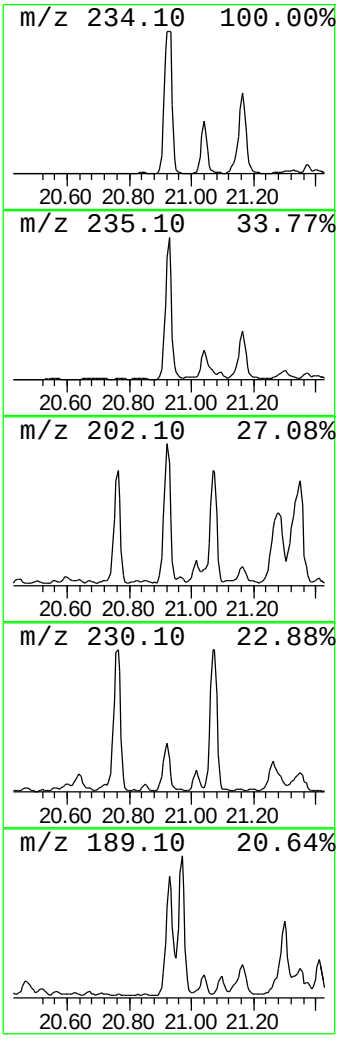
****

Peak Number 18 Anthra(2,3-b)thiophene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.93	5.17 ng/ul	64259600	Chrysene-d12	21.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthra(2,3-b)thiophene	234	C16H10S	022108-55-0	64
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	60
3	Anthra(1,2-b)thiophene	234	C16H10S	000227-86-1	60
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	58
5	Phenanthro(2,1-b)thiophene	234	C16H10S	000219-25-0	55





Library Search Compound Report

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Acq On : 17 Sep 2019 05:26
Operator : HP/JU
Sample : K4633-09
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D07

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Quant Title : SVOA CALIBRATION

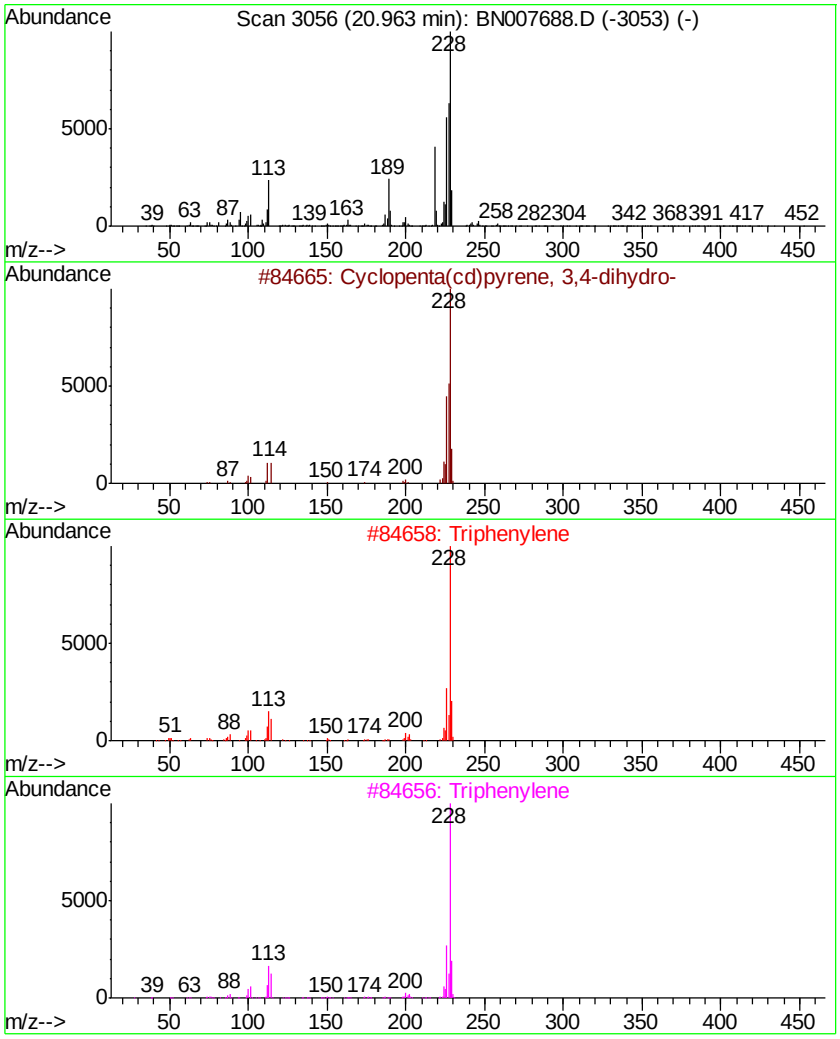
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

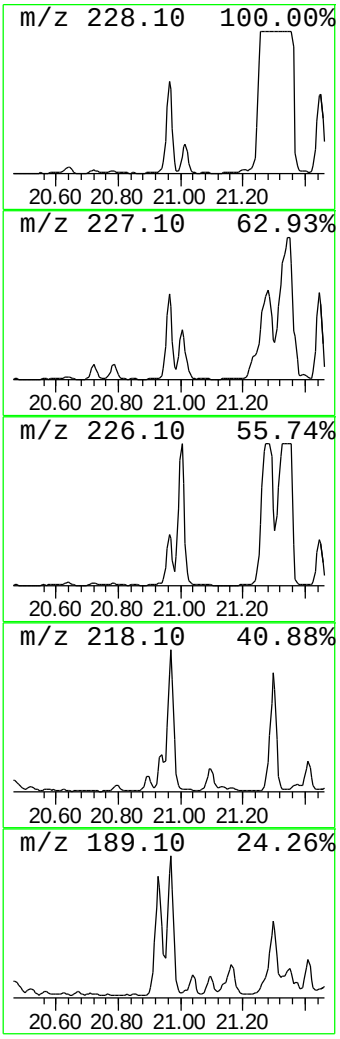
****

Peak Number 19 unknown-01 Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.96	3.23 ng/ul	40135000	Chrysene-d12	21.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	45
2	Triphenylene	228	C18H12	000217-59-4	42
3	Triphenylene	228	C18H12	000217-59-4	41
4	Chrysene	228	C18H12	000218-01-9	38
5	Benz[a]anthracene	228	C18H12	000056-55-3	38





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Sample : K4633-09
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D07

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Quant Title : SVOA CALIBRATION

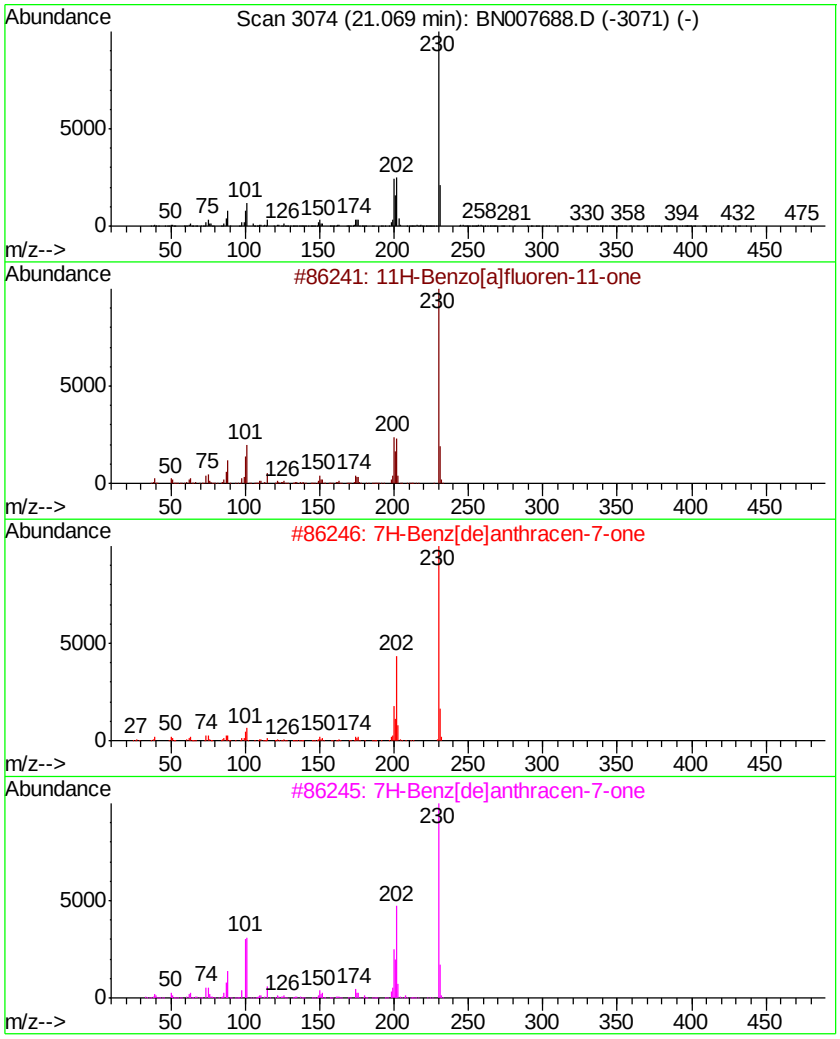
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

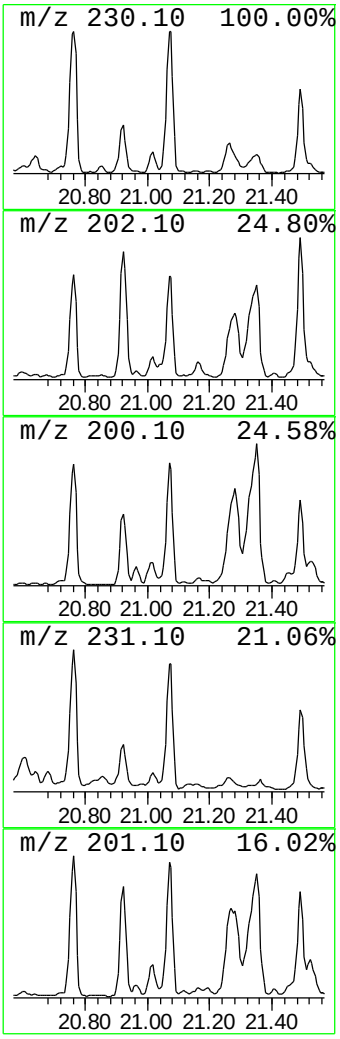
****

Peak Number 21 11H-Benzo[a]fluoren-11-one Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.07	2.91 ng/ul	36154000	Chrysene-d12	21.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	96
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	91
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
4	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	87
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	68





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Sample : K4633-09
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D07

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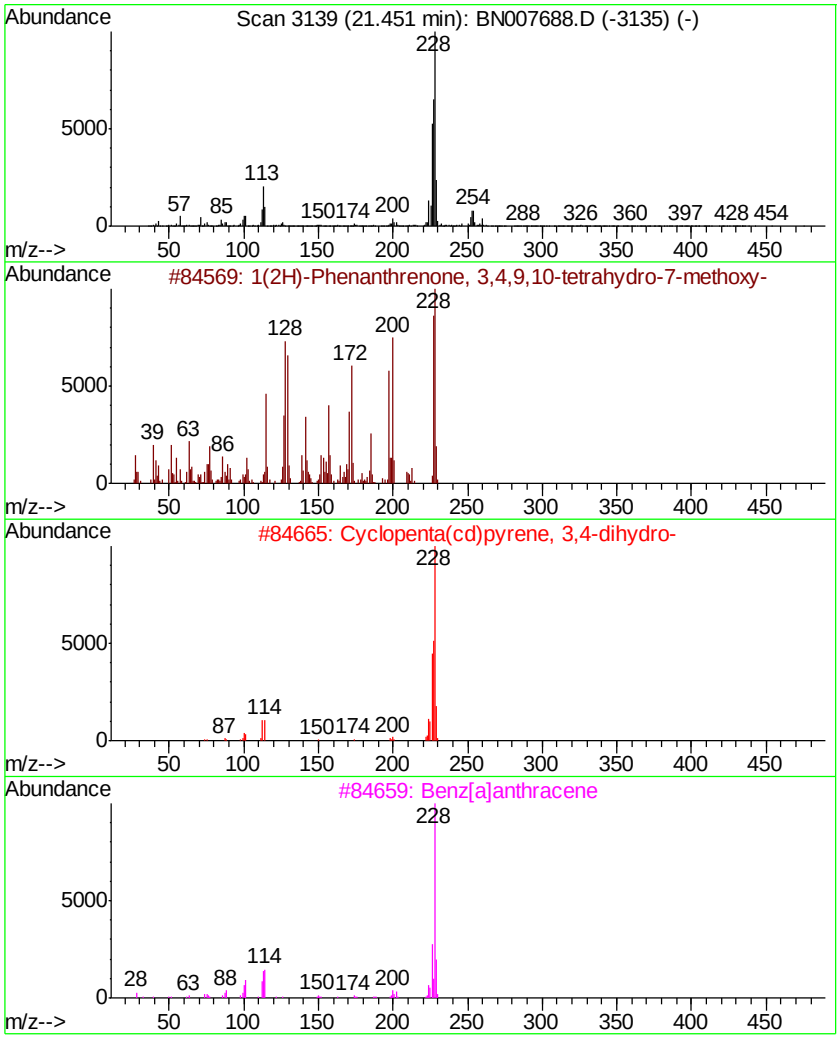
Quant Title : SVOA CALIBRATION

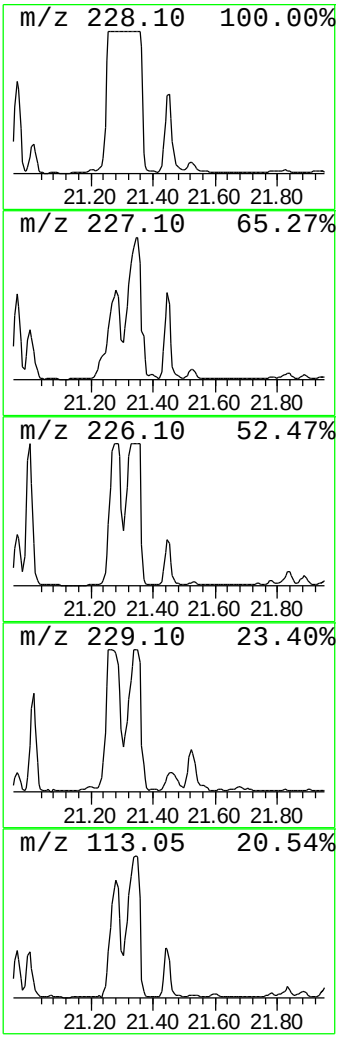
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 22 1(2H)-Phenanthrenone, 3,4,9... Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.45	2.19 ng/ul	27282000	Chrysene-d12	21.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1(2H)-Phenanthrenone, 3,4,9,10-t...	228	C15H16O2	014427-61-3	93
2	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	90
3	Benz[a]anthracene	228	C18H12	000056-55-3	55
4	Benzo[c]phenanthrene	228	C18H12	000195-19-7	55
5	Triphenylene	228	C18H12	000217-59-4	50





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Operator : HP/JU
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Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D07

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Quant Title : SVOA CALIBRATION

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

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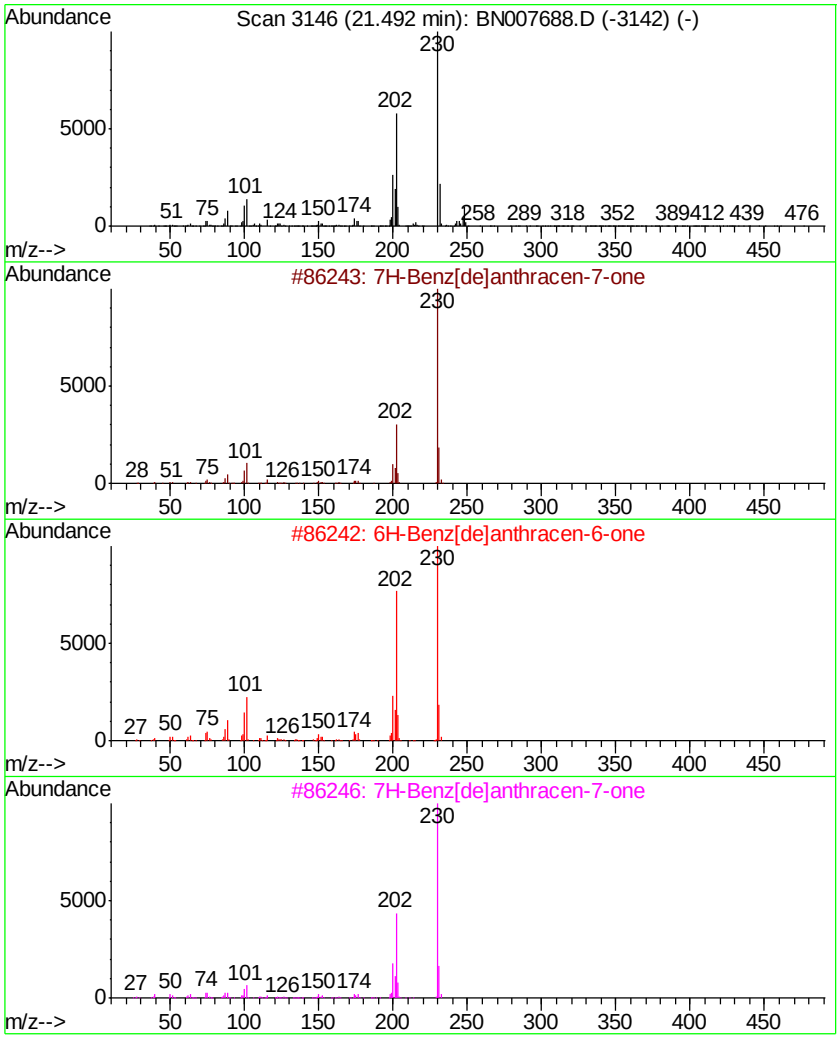
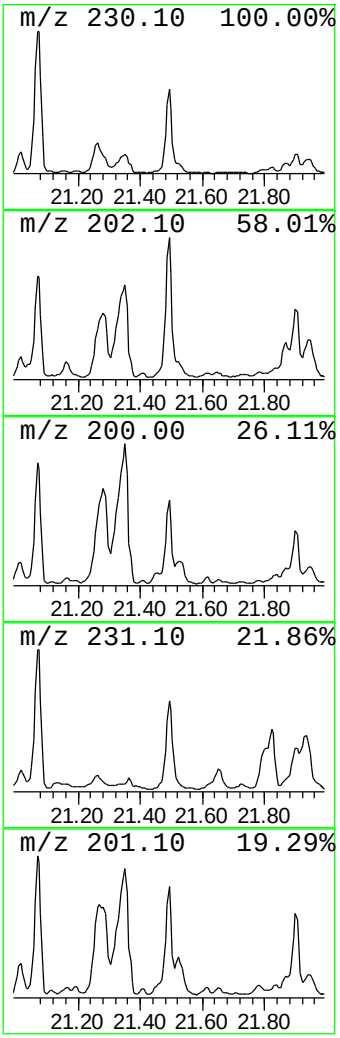
Peak Number 23 7H-Benz[de]anthracen-7-one Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.49	2.31 ng/ul	28762600	Chrysene-d12	21.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	97
2	6H-Benz[de]anthracen-6-one	230	C17H10O	080252-14-8	93
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	93
4	Fluoranthene	202	C16H10	000206-44-0	91
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90





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Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D07

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Quant Title : SVOA CALIBRATION

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

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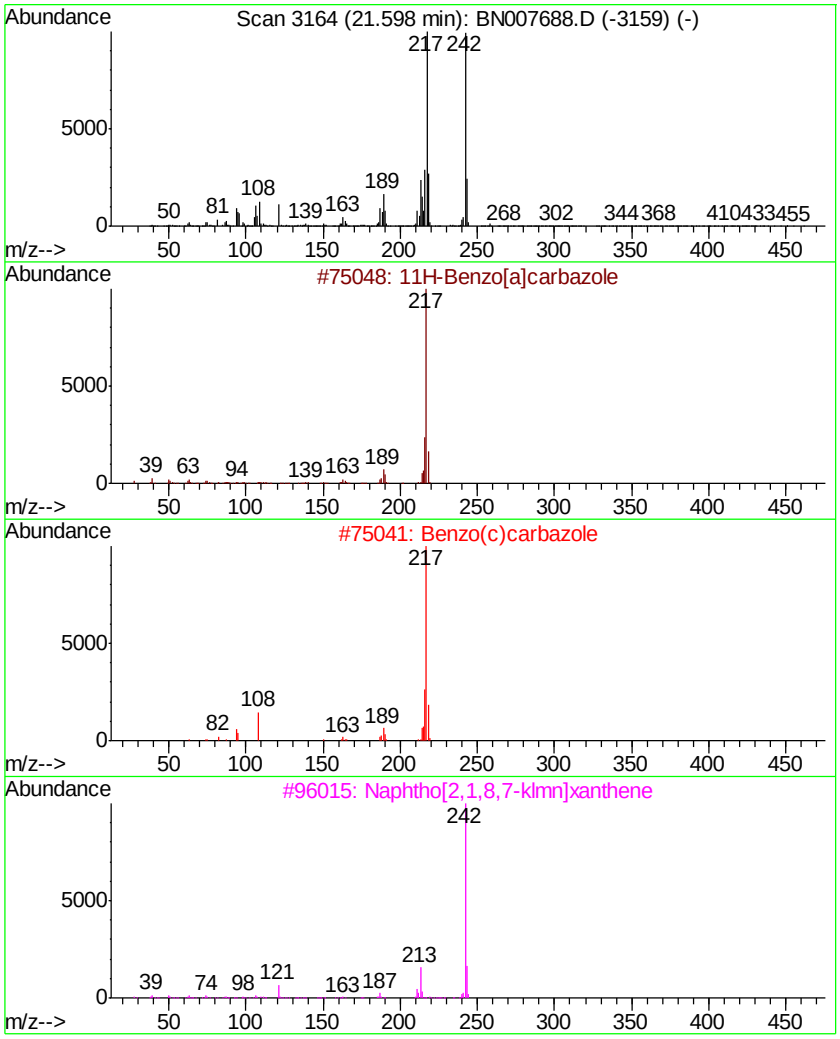
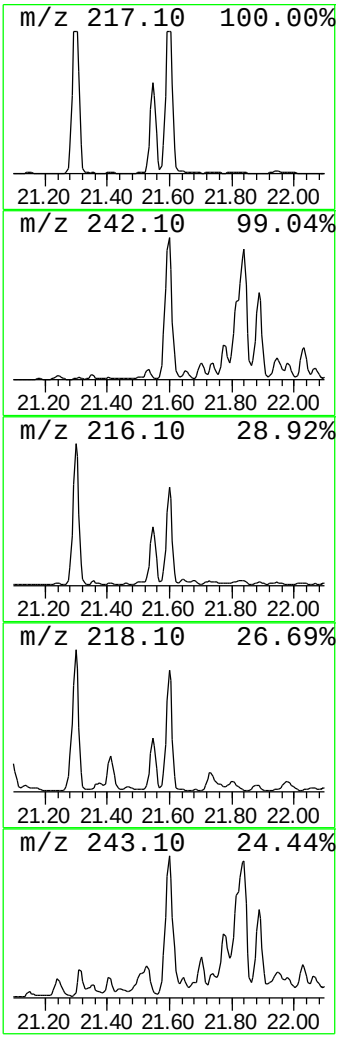
Peak Number 24 unknown-02 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.60	5.25 ng/ul	65320700	Chrysene-d12	21.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	46
2	Benzo(c)carbazole	217	C16H11N	034777-33-8	45
3	Naphtho[2,1,8,7-klmn]xanthene	242	C18H10O	000191-37-7	41
4	11H-Indeno(1,2-b)quinoline	217	C16H11N	000243-51-6	41
5	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	41





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Misc :
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ClientSampleId : F2D07

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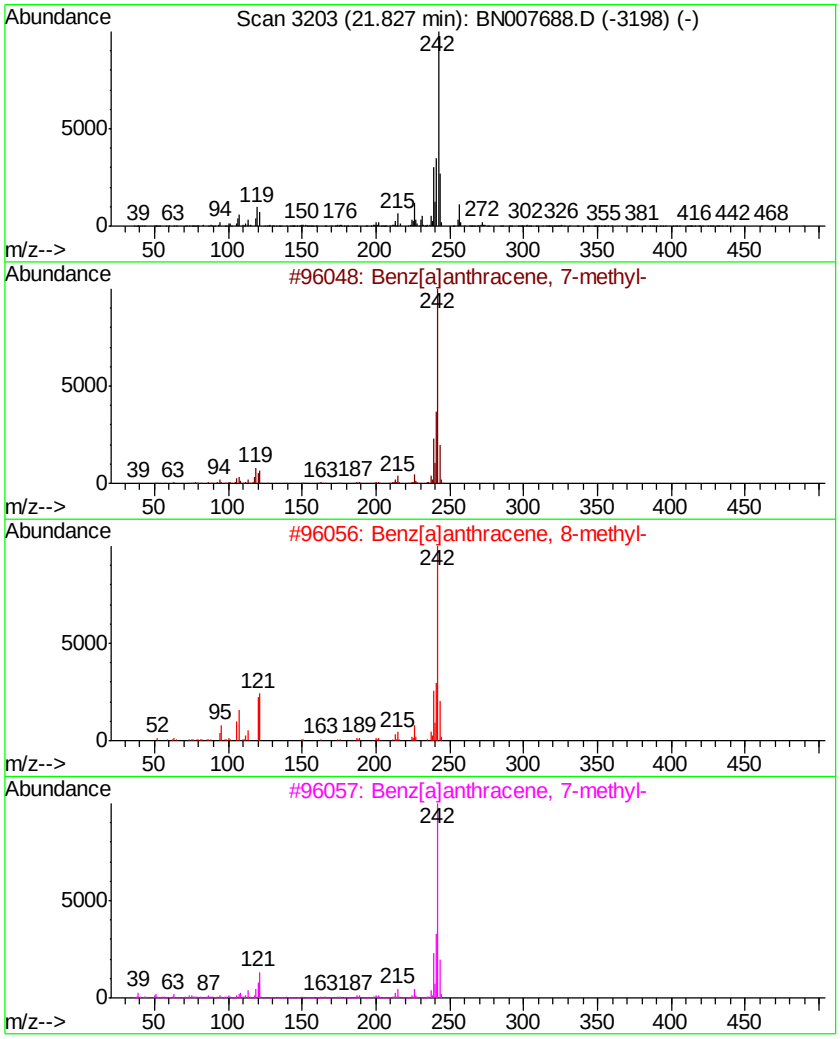
Quant Title : SVOA CALIBRATION

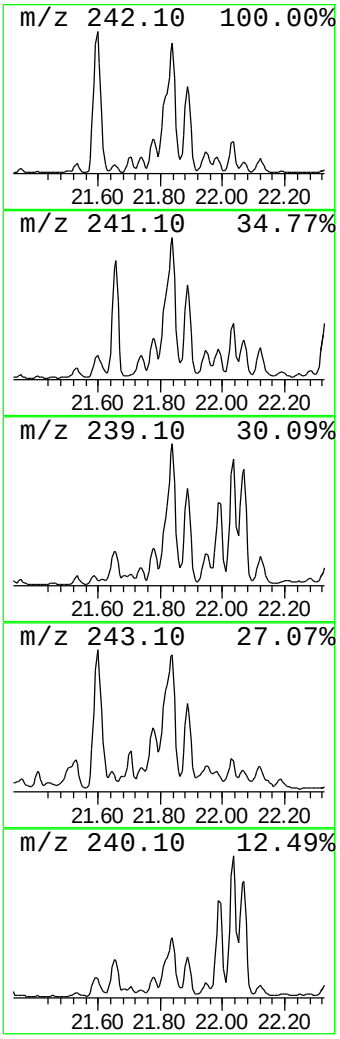
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 25 Benz[a]anthracene, 7-methyl- Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.83	3.19 ng/ul	39708600	Chrysene-d12	21.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	93
2	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	90
3	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	90
4	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	90
5	Chrysene, 5-methyl-	242	C19H14	003697-24-3	90





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Operator : HP/JU
Sample : K4633-09
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D07

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Quant Title : SVOA CALIBRATION

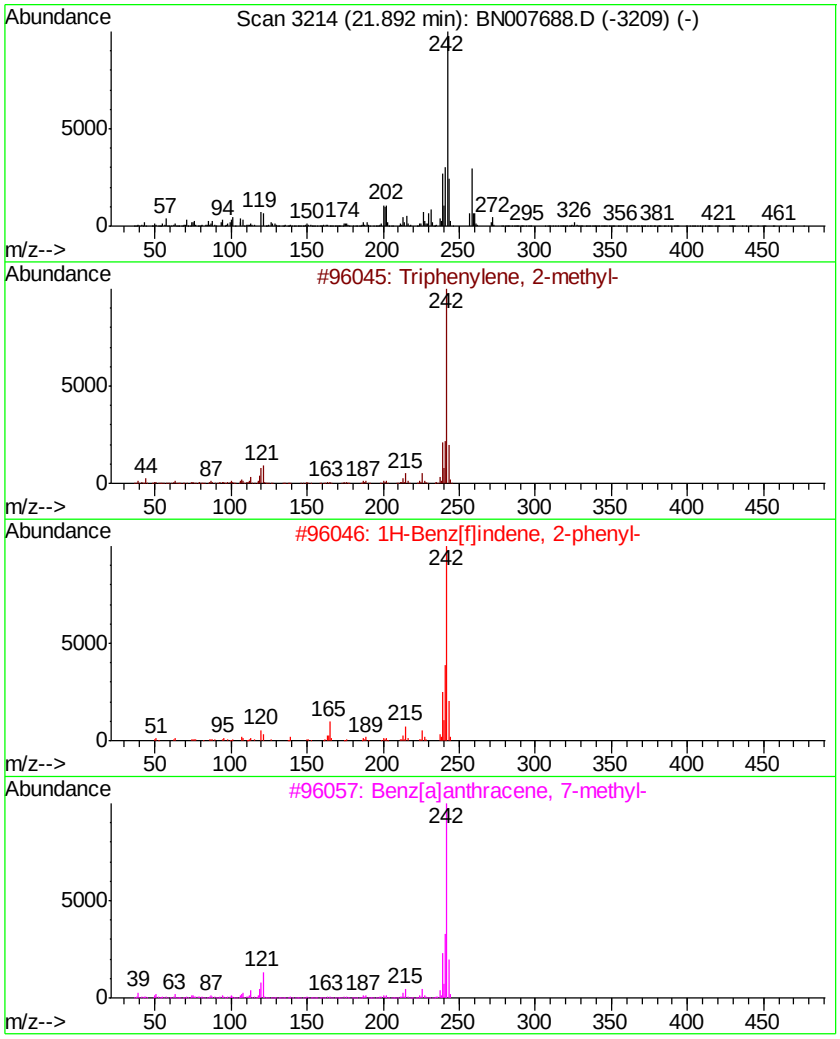
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

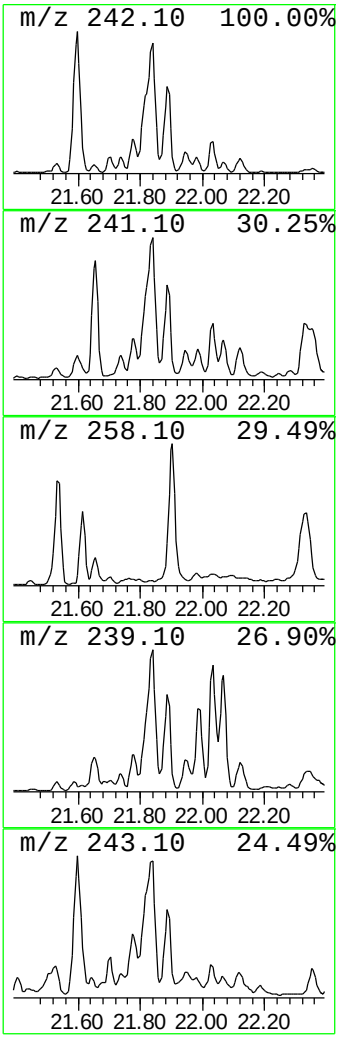
****

Peak Number 26 Triphenylene, 2-methyl- Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.89	2.55 ng/ul	31685900	Chrysene-d12	21.30

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	93
2	1H-Benz[f]indene, 2-phenyl-	242	C19H14	1000305-22-4	92
3	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	86
4	Chrysene, 6-methyl-	242	C19H14	001705-85-7	83
5	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	83





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Quant Title : SVOA CALIBRATION

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

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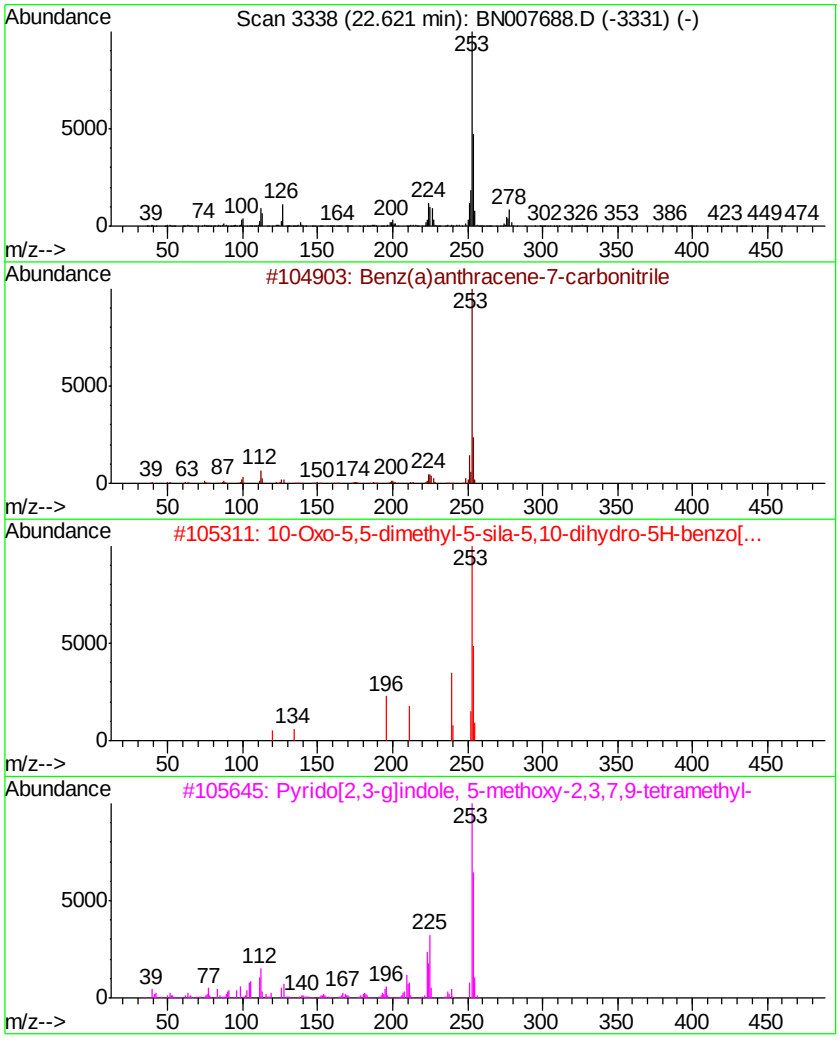
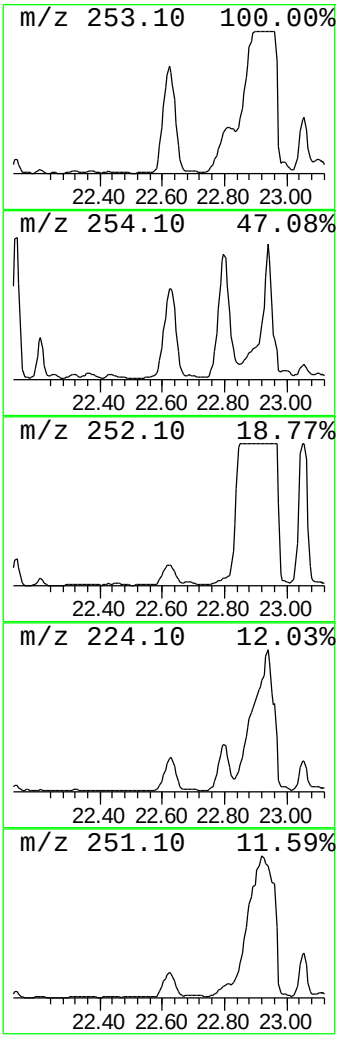
Peak Number 27 Benz(a)anthracene-7-carboni... Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.62	4.28 ng/ul	49333900	Perylene-d12	23.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	64
2	10-Oxo-5,5-dimethyl-5-sila-5,10-...	254	C14H14N2OSi	089052-45-9	53
3	Pyrido[2,3-g]indole, 5-methoxy-2...	254	C16H18N2O	201991-45-9	45
4	Lead, tetramethyl-	268	C4H12Pb	000075-74-1	43
5	4,6'-Biazulenyl	254	C20H14	094154-49-1	43





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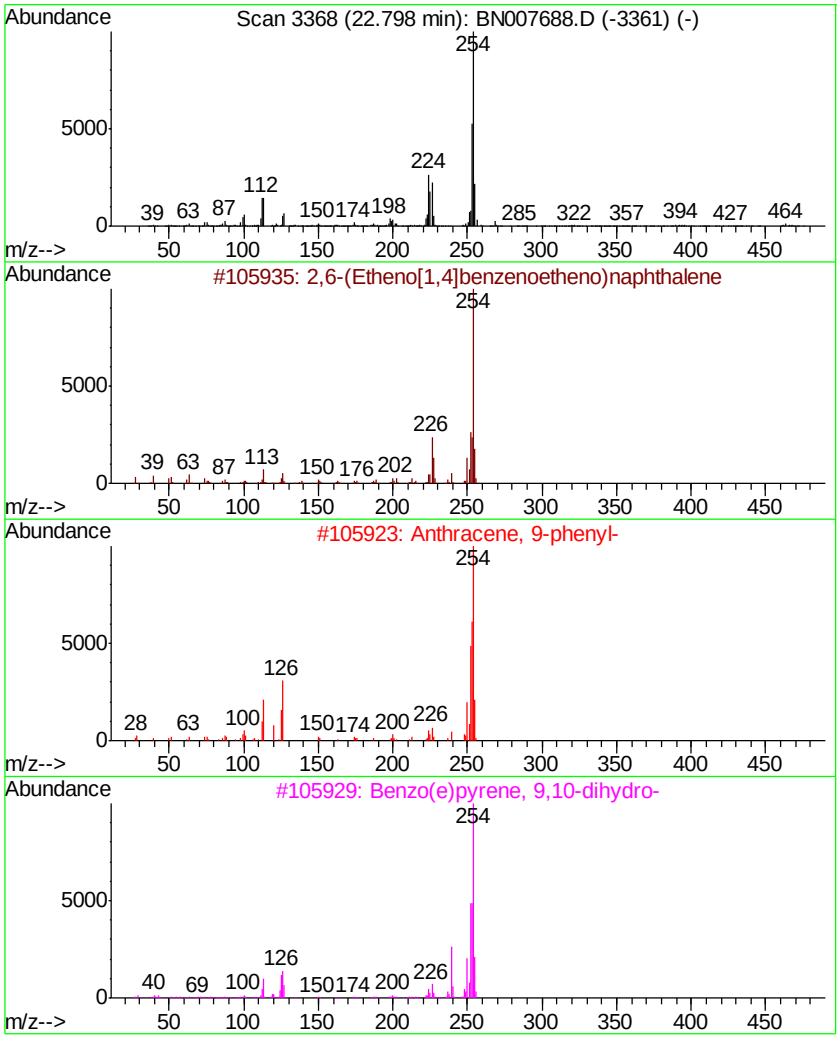
Quant Title : SVOA CALIBRATION

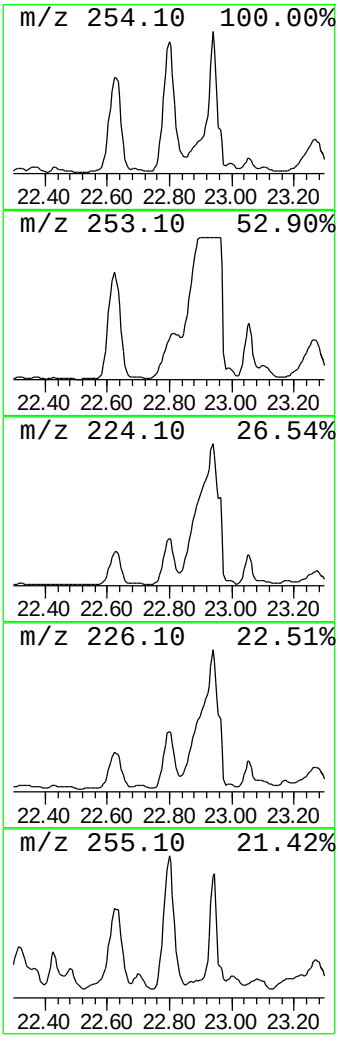
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 28 2,6-(Etheno[1,4]benzenoethe... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.80	3.26 ng/ul	37560500	Perylene-d12	23.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,6-(Etheno[1,4]benzenoetheno)na...	254	C20H14	117054-70-3	64
2	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	64
3	Benzo(e)pyrene, 9,10-dihydro-	254	C20H14	066788-01-0	64
4	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	62
5	Anthracene, 9-phenyl-	254	C20H14	000602-55-1	59





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Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D07

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Quant Title : SVOA CALIBRATION

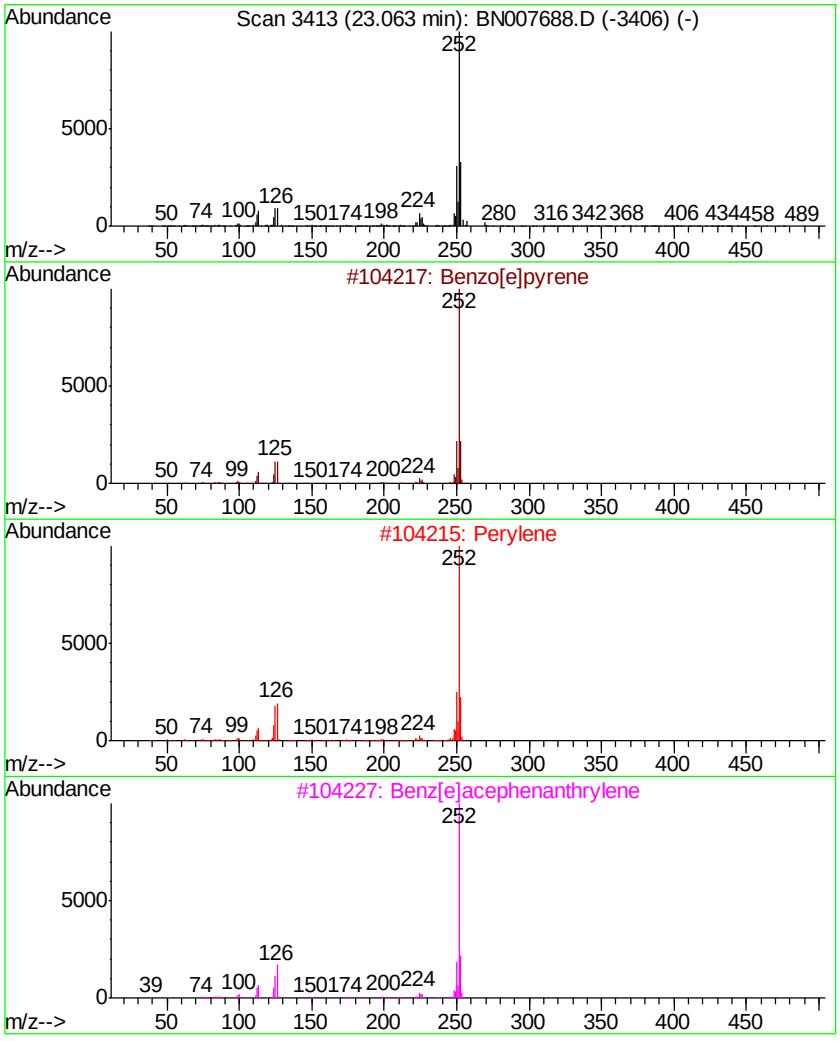
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

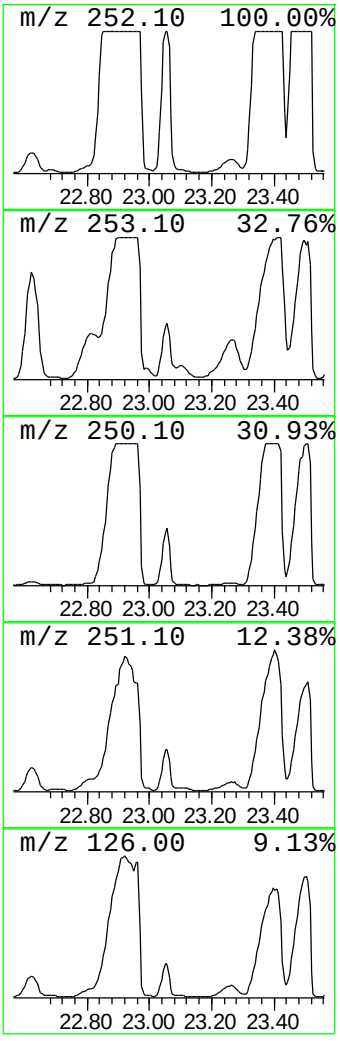
****

Peak Number 29 Benzo[e]pyrene Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.06	4.14 ng/ul	47785600	Perylene-d12	23.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	93
2	Perylene	252	C20H12	000198-55-0	83
3	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	78
4	Benzo[e]pyrene	252	C20H12	000192-97-2	64
5	Benzo[k]fluoranthene	252	C20H12	000207-08-9	60





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Misc :
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ClientSampleId : F2D07

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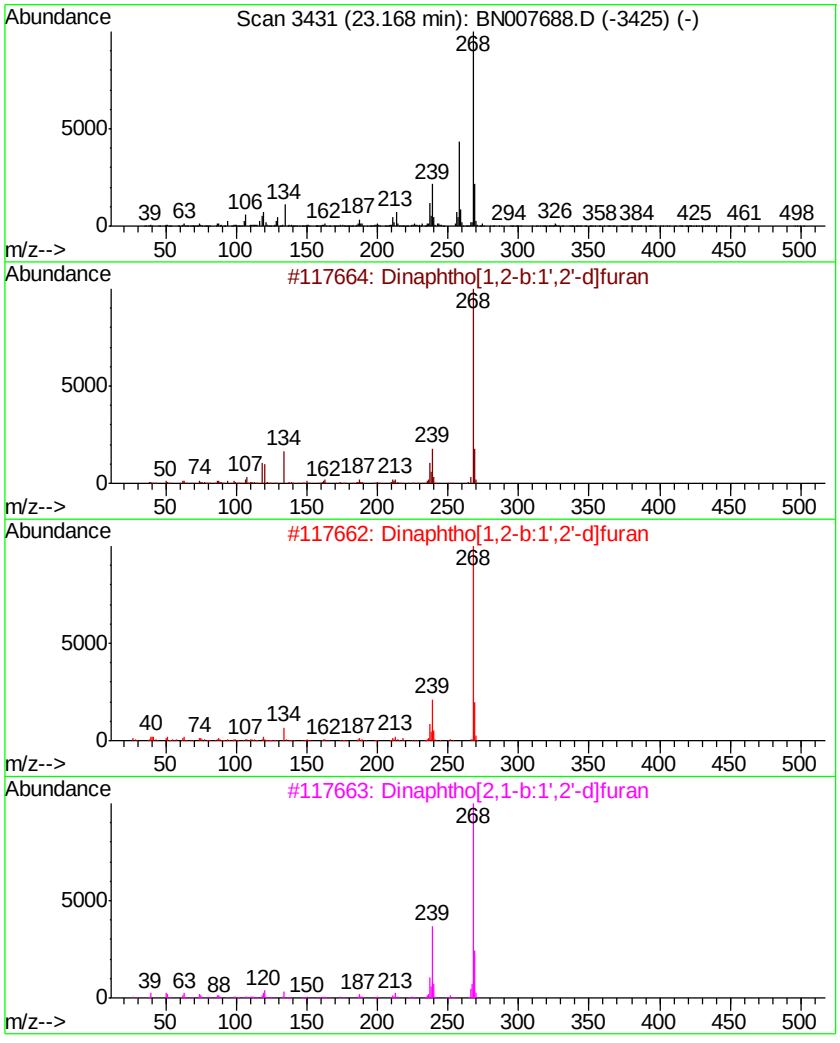
Quant Title : SVOA CALIBRATION

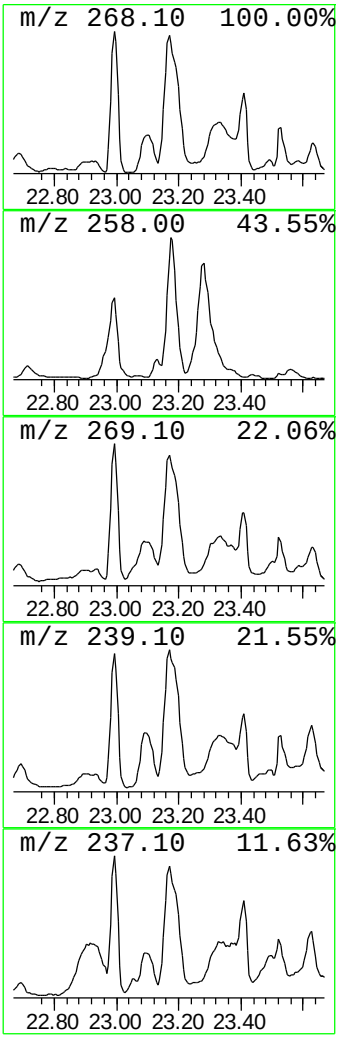
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 30 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.17	4.49 ng/ul	51761900	Perylene-d12	23.56

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	70
2	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	70
3	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	62
4	10-Hydroxy-5-methoxy-2-methyl-1,...	268	C16H12O4	084542-45-0	49
5	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	46





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN091619\
Data File : BN007688.D
Acq On : 17 Sep 2019 05:26
Operator : HP/JU
Sample : K4633-09
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D07

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-methoxy...	3.02	148.5	ng/ul	30642900	1	7.70	4127540	20.0
9H-Fluoren-9-one	16.73	9.1	ng/ul	4691800	4	17.08	10271700	20.0
Dibenzothiophene	16.89	8.6	ng/ul	4393770	4	17.08	10271700	20.0
Acridine	17.26	10.1	ng/ul	5167370	4	17.08	10271700	20.0
Phenanthrene, 2-m...	17.95	18.1	ng/ul	9287070	4	17.08	10271700	20.0
Phenanthrene, 1-m...	18.00	29.9	ng/ul	15383100	4	17.08	10271700	20.0
Anthracene, 9-met...	18.08	8.9	ng/ul	4552600	4	17.08	10271700	20.0
4H-Cyclopenta[def...	18.15	33.9	ng/ul	17383100	4	17.08	10271700	20.0
1H-Cyclopropa[l]p...	18.18	9.2	ng/ul	4742990	4	17.08	10271700	20.0
Naphthalene, 2-ph...	18.46	15.5	ng/ul	7949930	4	17.08	10271700	20.0
Benzo[c]cinnoline	18.50	18.0	ng/ul	9255860	4	17.08	10271700	20.0
Naphthalic anhydride	18.89	18.7	ng/ul	9603300	4	17.08	10271700	20.0
Cyclopenta(def)ph...	19.03	22.8	ng/ul	11684700	4	17.08	10271700	20.0
Naphtho(2,1,8-def...	19.75	3.1	ng/ul	38005600	5	21.30	248793000	20.0
11H-Benzo[a]fluorene	20.01	2.1	ng/ul	25590000	5	21.30	248793000	20.0
Pyrene, 1-methyl-	20.16	2.3	ng/ul	28711200	5	21.30	248793000	20.0
Anthra(2,3-b)thio...	20.93	5.2	ng/ul	64259600	5	21.30	248793000	20.0
unknown-01	20.96	3.2	ng/ul	40135000	5	21.30	248793000	20.0
11H-Benzo[a]fluor...	21.07	2.9	ng/ul	36154000	5	21.30	248793000	20.0
1(2H)-Phenanthren...	21.45	2.2	ng/ul	27282000	5	21.30	248793000	20.0
7H-Benz[de]anthra...	21.49	2.3	ng/ul	28762600	5	21.30	248793000	20.0
unknown-02	21.60	5.3	ng/ul	65320700	5	21.30	248793000	20.0
Benz[a]anthracene...	21.83	3.2	ng/ul	39708600	5	21.30	248793000	20.0
Triphenylene, 2-m...	21.89	2.5	ng/ul	31685900	5	21.30	248793000	20.0
Benz(a)anthracene...	22.62	4.3	ng/ul	49333900	6	23.56	230769000	20.0
2,6-(Etheno[1,4]b...	22.80	3.3	ng/ul	37560500	6	23.56	230769000	20.0
Benzo[e]pyrene	23.06	4.1	ng/ul	47785600	6	23.56	230769000	20.0
Dinaphtho[1,2-b:1...	23.17	4.5	ng/ul	51761900	6	23.56	230769000	20.0