LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN091619\
Data File : BN007686.D
Acq On : 17 Sep 2019 04:14
Operator : HP/JU
Sample : K4633-08
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D06

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	30	rVB	30502799	37037801	24.62%	1.607%
2	6.875	654	661	672	rBV2	2895719	5309219	3.53%	0.230%
3	7.240	716	723	732	rBV	2992323	4657642	3.10%	0.202%
4	7.705	795	802	809	rBV	2710776	4175080	2.78%	0.181%
5	8.399	913	920	930	rBV	3474281	5516023	3.67%	0.239%
6	8.846	989	996	1006	rBV	2732398	4368974	2.90%	0.190%
7	10.093	1201	1208	1219	rBV	3613998	6133606	4.08%	0.266%
8	10.475	1264	1273	1278	rBV	3875840	6362059	4.23%	0.276%
9	13.740	1823	1828	1833	rVV	6239369	8865525	5.89%	0.385%
10	14.022	1868	1876	1892	rBV	7293295	11448931	7.61%	0.497%
11	14.328	1920	1928	1934	rBV	5981794	9014742	5.99%	0.391%
12	14.392	1934	1939	1946	rVV	4381483	6252381	4.16%	0.271%
13	15.328	2091	2098	2103	rVV	9271856	13436109	8.93%	0.583%
14	16.728	2331	2336	2344	rVB	3168160	4643903	3.09%	0.202%
15	16.892	2359	2364	2370	rVB	3146976	4196452	2.79%	0.182%
16	17.075	2389	2395	2398	rVV2	6711690	10107485	6.72%	0.439%
17	17.122	2398	2403	2408	rVV	39637767	61446543	40.85%	2.667%
18	17.175	2408	2412	2415	rVV2	10590458	15254875	10.14%	0.662%
19	17.210	2415	2418	2423	rVV	8293318	10662320	7.09%	0.463%
20	17.475	2453	2463	2468	rBV2	8144960	13051986	8.68%	0.566%
21	17.951	2534	2544	2548	rBV2	8348123	12501863	8.31%	0.543%
22	17.998	2548	2552	2559	rVB	13115679	18468325	12.28%	0.802%
23	18.145	2571	2577	2581	rBV2	7730803	13975434	9.29%	0.607%
24	18.180	2581	2583	2589	rVB	4364971	4977792	3.31%	0.216%
25	18.451	2625	2629	2633	rBV2	4782370	6953861	4.62%	0.302%
26	18.492	2633	2636	2647	rVB2	6850787	11048170	7.34%	0.479%
27	18.704	2663	2672	2676	rBV2	3589823	5897831	3.92%	0.256%
28	18.757	2676	2681	2684	rBV	4672189	6351941	4.22%	0.276%
29	18.792	2684	2687	2692	rVB	4422686	5633434	3.75%	0.244%
30	18.880	2695	2702	2706	rBV2	5917671	10216581	6.79%	0.443%
31	19.016	2721	2725	2732	rVB	6456058	9705404	6.45%	0.421%
32	19.151	2740	2748	2753	rVB2	61686636	110545126	73.49%	4.798%
33	19.216	2754	2759	2761	rBV	2329624	3968748	2.64%	0.172%
34	19.380	2783	2787	2792	rVV	4592801	7672907	5.10%	0.333%

LSC Area Percent Report

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Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D06

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

35	19.516	2798	2810	2816	rBV5	59123744	144990958	96.39%	6.293%
36	19.580	2816	2821	2827	rVB2	5395460	10801512	7.18%	0.469%
37	19.680	2828	2838	2845	rBV2	5868140	14942405	9.93%	0.649%
38	19.745	2845	2849	2855	rVB	6614177	9897299	6.58%	0.430%
39	19.827	2857	2863	2869	rBV3	7164680	18609117	12.37%	0.808%
40	19.880	2869	2872	2875	rVB	3824542	4645389	3.09%	0.202%
41	19.922	2875	2879	2882	rBV2	3084245	4526920	3.01%	0.196%
42	19.969	2882	2887	2888	rVV3	5655822	8131062	5.41%	0.353%
43	20.004	2889	2893	2897	rVB	14487792	20948023	13.93%	0.909%
44	20.104	2906	2910	2914	rVV	7530360	8919886	5.93%	0.387%
45	20.163	2914	2920	2924	rVV2	22321561	33998956	22.60%	1.476%
46	20.198	2924	2926	2931	rVV	6117891	7541366	5.01%	0.327%
47	20.304	2939	2944	2947	rVV	10489624	13671977	9.09%	0.593%
48	20.345	2947	2951	2955	rVV	10526980	14138681	9.40%	0.614%
49	20.557	2983	2987	2990	rBV3	3302463	5377586	3.58%	0.233%
50	20.598	2990	2994	2997	rVV4	4491012	8837954	5.88%	0.384%
51	20.639	2997	3001	3004	rVV	5678662	10134985	6.74%	0.440%
52	20.669	3004	3006	3009	rVV	3961224	4065057	2.70%	0.176%
53	20.722	3010	3015	3016	rVV2	3137658	4797394	3.19%	0.208%
54	20.757	3016	3021	3027	rVV	19950027	30144724	20.04%	1.308%
55	20.845	3033	3036	3041	rVB	6305282	7842192	5.21%	0.340%
56	20.922	3041	3049	3053	rBV3	24625342	49328616	32.79%	2.141%
57	20.957	3053	3055	3058	rVV	10697942	11256959	7.48%	0.489%
58	21.004	3058	3063	3067	rVV2	13600850	24324520	16.17%	1.056%
59	21.057	3067	3072	3078	rVB2	15061219	22947169	15.26%	0.996%
60	21.157	3083	3089	3093	rBV	7205245	12875540	8.56%	0.559%
61	21.269	3098	3108	3112	rVV4	63804728	129911746	86.37%	5.638%
62	21.327	3113	3118	3125	rVB2	61118485	104800309	69.67%	4.548%
63	21.398	3125	3130	3133	rBV2	10901248	14087927	9.37%	0.611%
64	21.433	3133	3136	3140	rBV	9602806	13373743	8.89%	0.580%
65	21.504	3143	3148	3151	rVV3	9205853	19868200	13.21%	0.862%
66	21.539	3151	3154	3158	rVB	9802114	12818718	8.52%	0.556%
67	21.586	3158	3162	3167	rBV2	16500031	24980273	16.61%	1.084%
68	21.639	3167	3171	3175	rBV2	5700237	7104168	4.72%	0.308%
69	21.727	3182	3186	3189	rBV3	4745012	7262228	4.83%	0.315%
70	21.769	3189	3193	3196	rVV2	8383020	12033569	8.00%	0.522%
71	21.833	3196	3204	3208	rVV2	29764399	57468613	38.21%	2.494%

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Misc :
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Instrument : BNA_N
ClientSampleId : F2D06

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

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Peak separation: 5

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

72	21.880	3208	3212	3216	rVV	20078551	26226054	17.44%	1.138%
73	21.974	3226	3228	3232	rVB3	5214042	6451233	4.29%	0.280%
74	22.027	3232	3237	3239	rBV	10876715	15020506	9.99%	0.652%
75	22.057	3239	3242	3248	rVB3	9908872	15886454	10.56%	0.689%
76	22.121	3248	3253	3264	rVB4	9520614	18125592	12.05%	0.787%
77	22.216	3265	3269	3276	rVB3	4031839	7459696	4.96%	0.324%
78	22.345	3277	3291	3293	rBV4	9802486	31898026	21.21%	1.384%
79	22.427	3300	3305	3308	rBV	9056087	12279853	8.16%	0.533%
80	22.480	3310	3314	3321	rVB	9547548	17322431	11.52%	0.752%
81	22.598	3328	3334	3339	rBV3	9367425	19866235	13.21%	0.862%
82	22.686	3345	3349	3353	rBV4	3684296	5296940	3.52%	0.230%
83	22.868	3369	3380	3384	rBV2	54916521	150420241	100.00%	6.528%
84	23.021	3401	3406	3411	rBV	9427782	14213925	9.45%	0.617%
85	23.151	3423	3428	3436	rBV3	6996698	18407912	12.24%	0.799%
86	23.339	3451	3460	3465	rBV2	38121006	90311085	60.04%	3.920%
87	23.439	3470	3477	3483	rVB2	47749900	106690391	70.93%	4.630%
88	23.515	3485	3490	3493	rBV	4670572	8912199	5.92%	0.387%
89	23.568	3493	3499	3507	rVB2	21220999	46087633	30.64%	2.000%
90	23.763	3526	3532	3538	rBV3	3970498	10846897	7.21%	0.471%
91	23.998	3567	3572	3577	rBV2	5747094	10013543	6.66%	0.435%
92	24.057	3577	3582	3591	rVB2	11129334	22770164	15.14%	0.988%
93	24.180	3594	3603	3608	rBV3	5968649	16825639	11.19%	0.730%
94	24.245	3609	3614	3621	rBV2	5662713	12755162	8.48%	0.554%
95	24.380	3632	3637	3642	rBV3	4049525	8351145	5.55%	0.362%
96	25.786	3864	3876	3883	rVB2	29779295	97437787	64.78%	4.229%
97	26.009	3909	3914	3922	rVB	5480217	14227503	9.46%	0.617%
98	26.104	3924	3930	3942	rBV2	4402651	14207897	9.45%	0.617%
99	26.474	3979	3993	4002	rBV	21439080	76870542	51.10%	3.336%
100	26.809	4043	4050	4069	rVB2	7164760	27682426	18.40%	1.201%

Sum of corrected areas: 2304129925

LSC Report - Integrated Chromatogram

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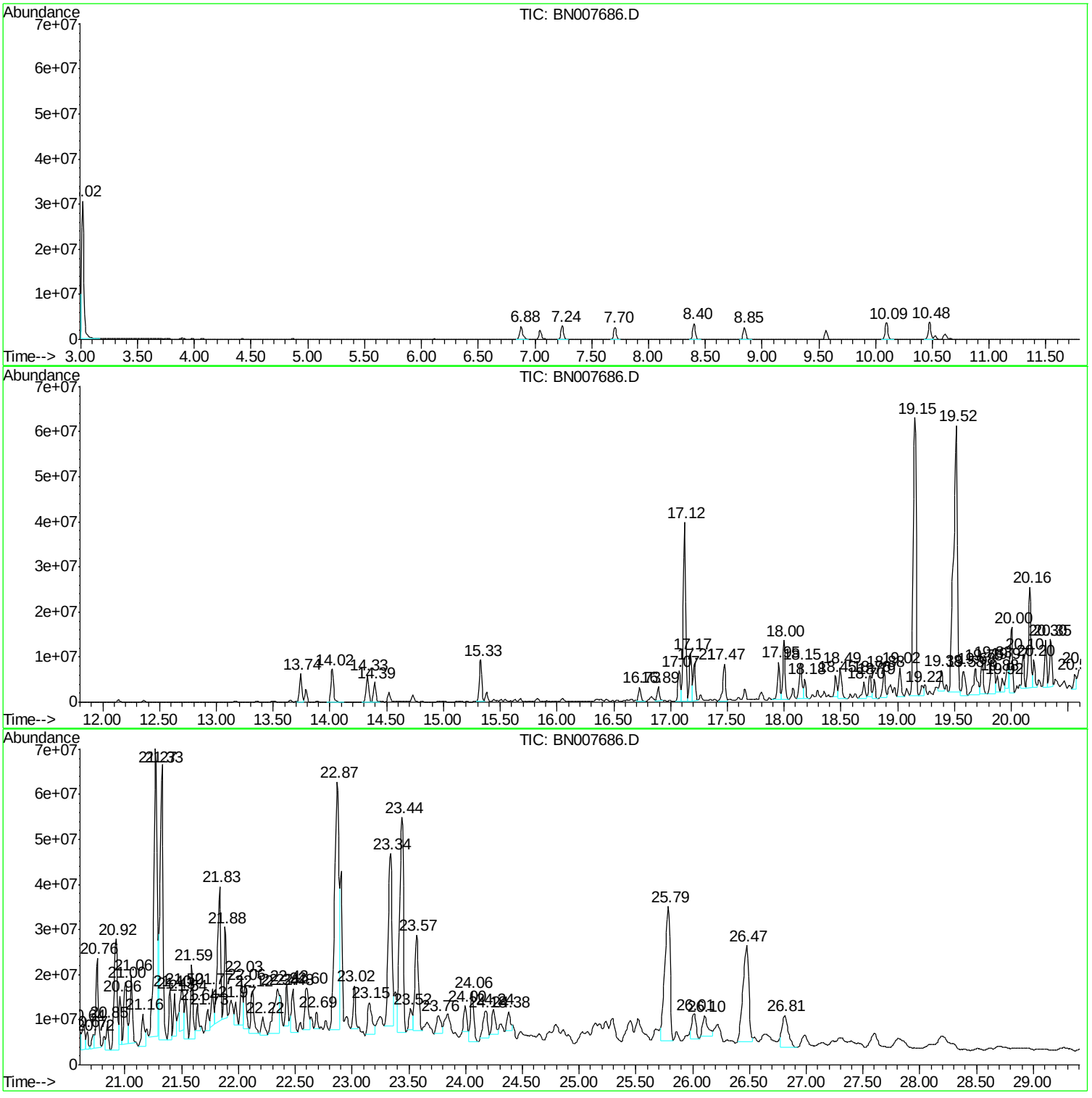
Sample : K4633-08
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D06

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 : BN007686.D
Acq On : 17 Sep 2019 04:14
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Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D06

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

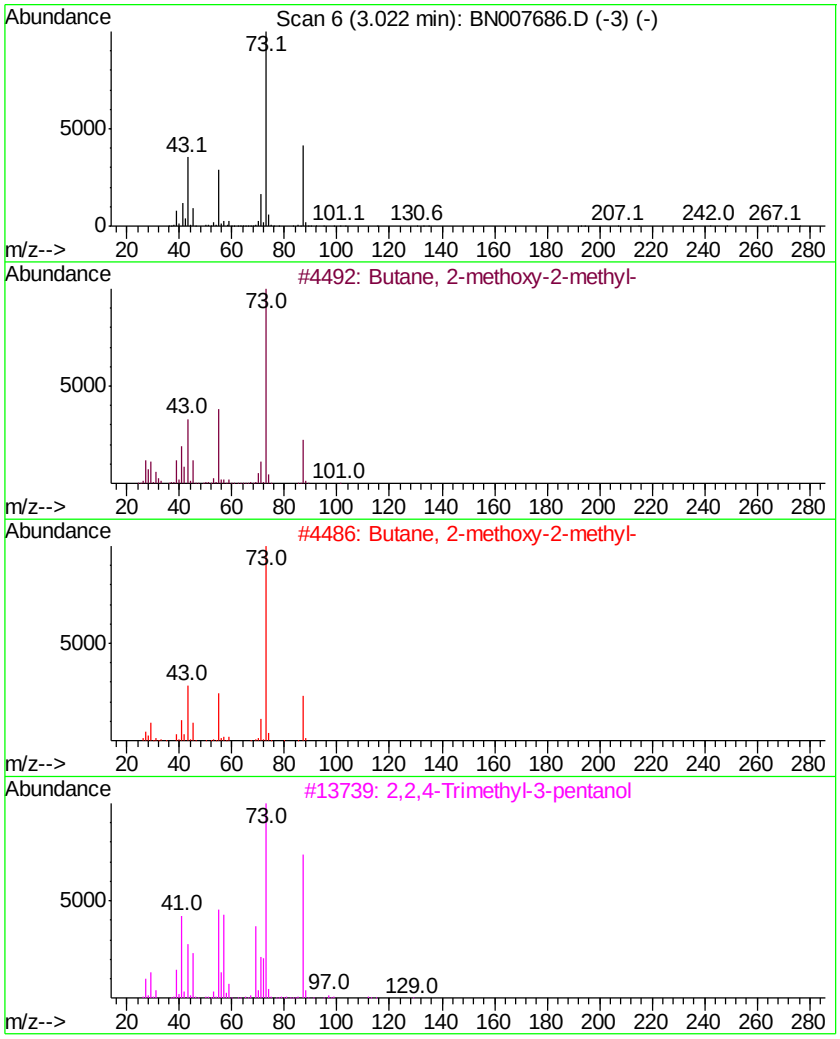
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

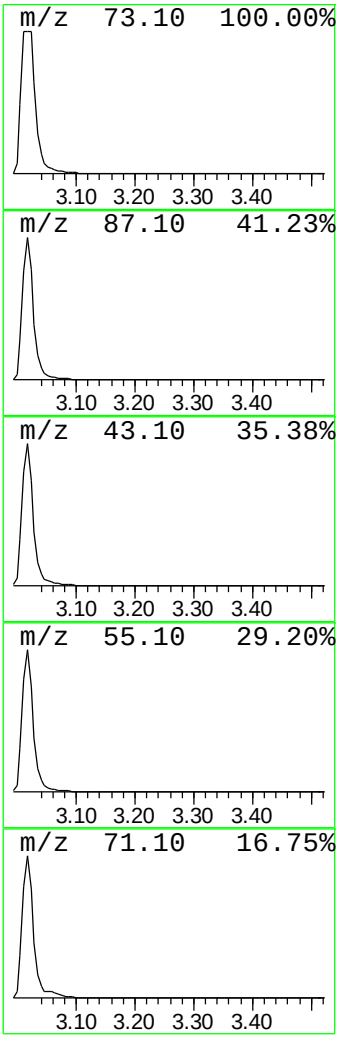
****

Peak Number 1 unknown-01 Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.02	177.42 ng/ul	37037800	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	40
2	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	40
3	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
4	3-Pentanol, 2,3,4-trimethyl-	130	C8H18O	003054-92-0	37
5	3-Pentanol, 2,2,4,4-tetramethyl-	144	C9H20O	014609-79-1	32





Library Search Compound Report

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ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D06

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

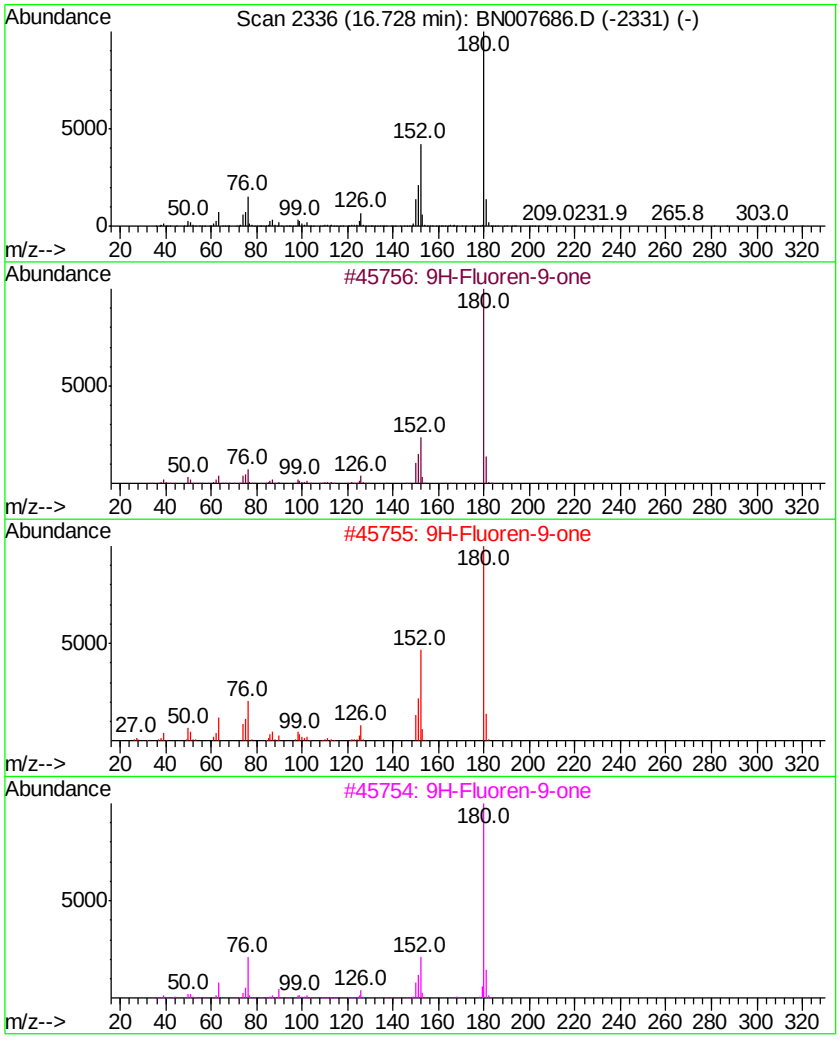
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

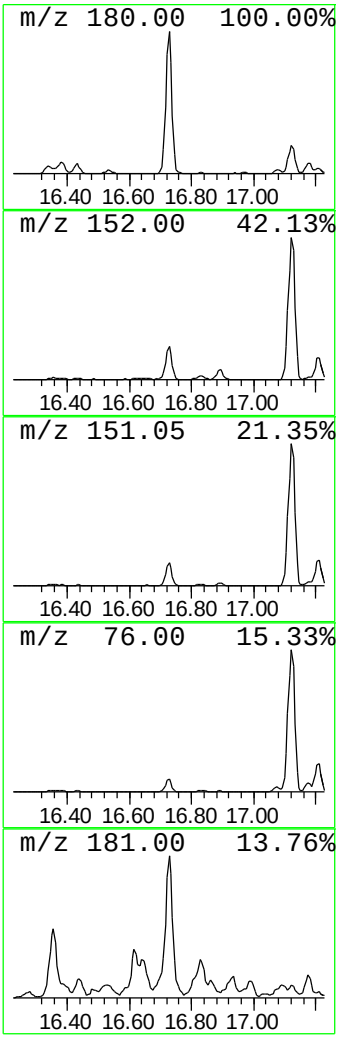
****

Peak Number 2 9H-Fluoren-9-one Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.73	9.19 ng/ul	4643900	Phenanthrene-d10	17.07

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	94
4	9H-Fluoren-9-one	180	C13H8O	000486-25-9	93
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	64





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Instrument : BNA_N
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Quant Title : SVOA CALIBRATION

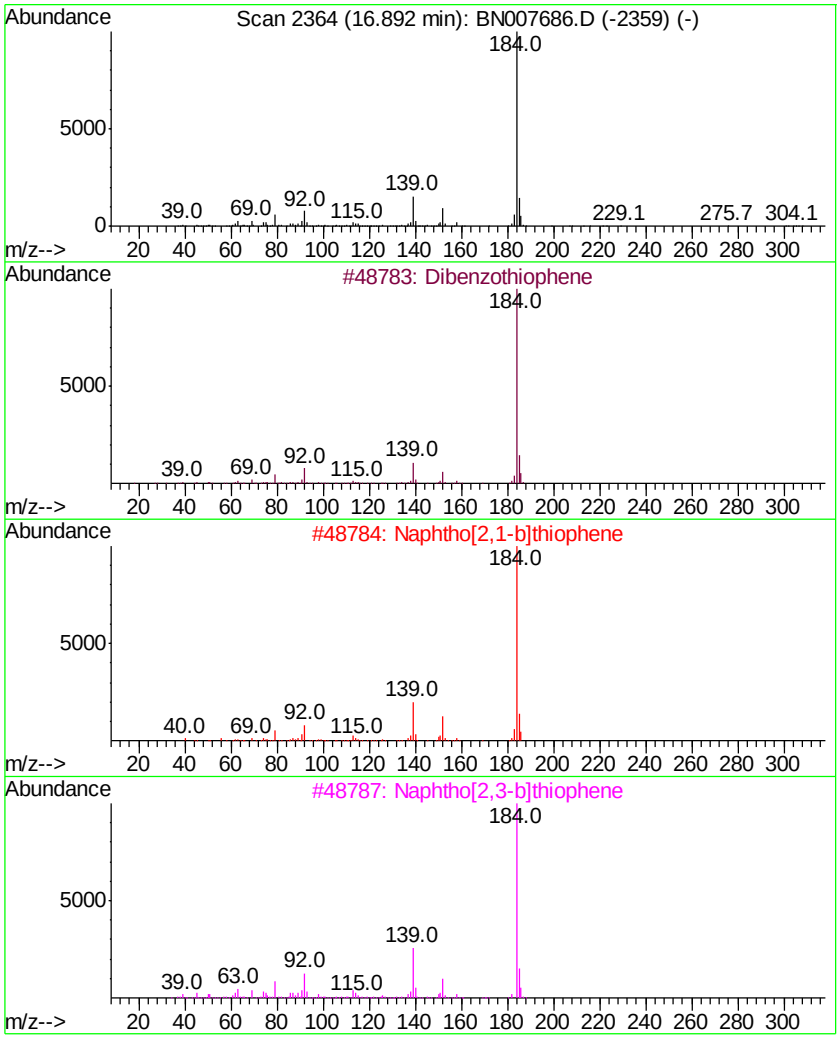
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

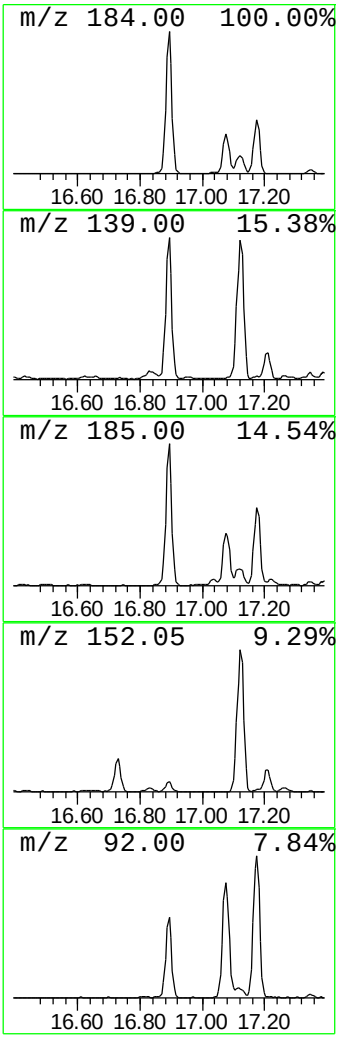
****

Peak Number 3 Dibenzothiophene Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.89	8.30 ng/ul	4196450	Phenanthrene-d10	17.07

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





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Data File : BN007686.D
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Operator : HP/JU
Sample : K4633-08
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D06

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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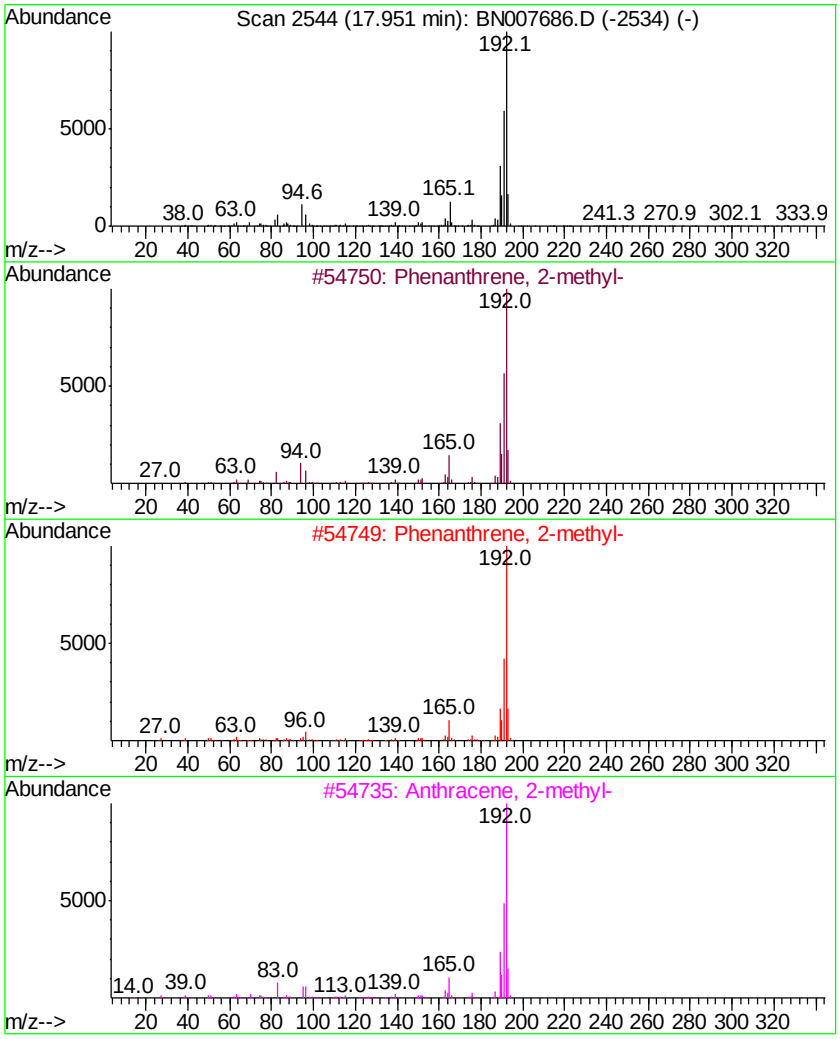
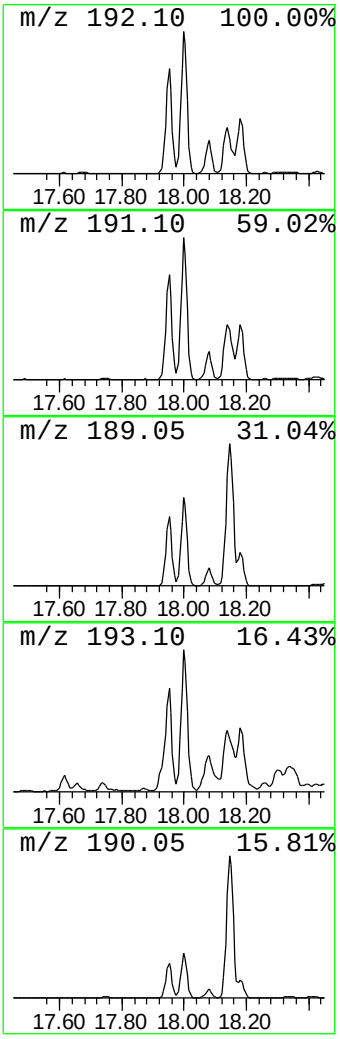
Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.95	24.74 ng/ul	12501900	Phenanthrene-d10	17.07

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	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
4	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95





Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN091619\
Data File : BN007686.D
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Sample : K4633-08
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D06

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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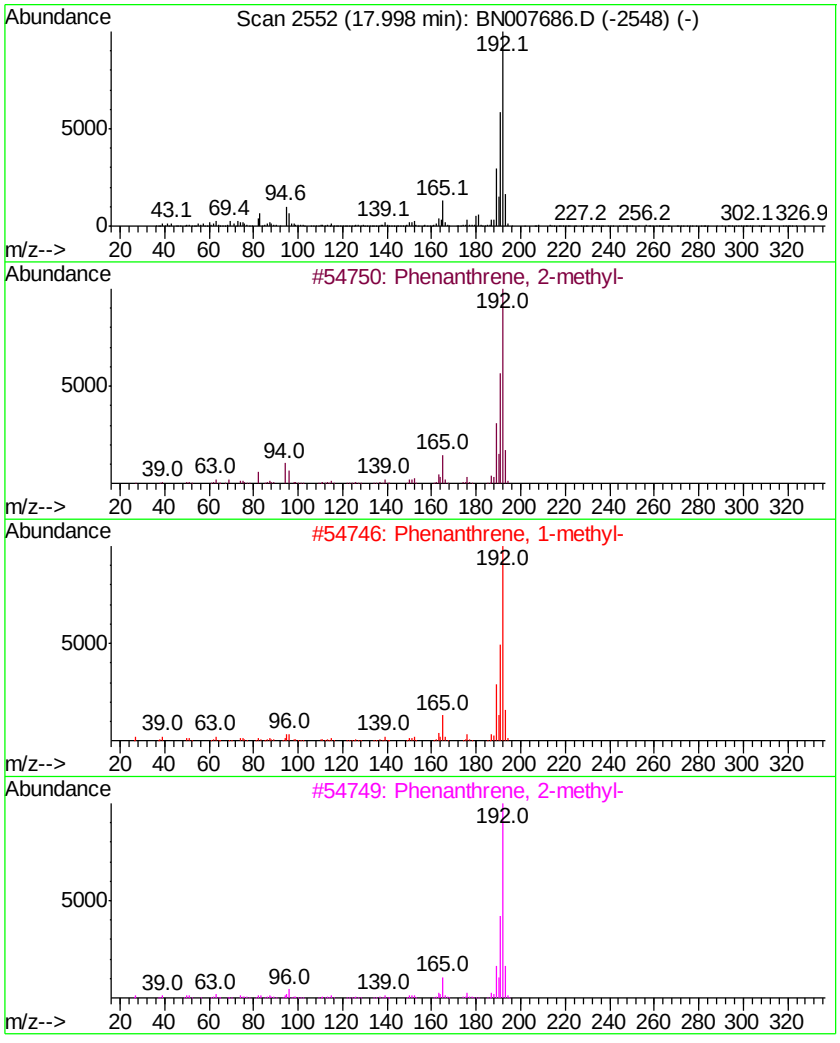
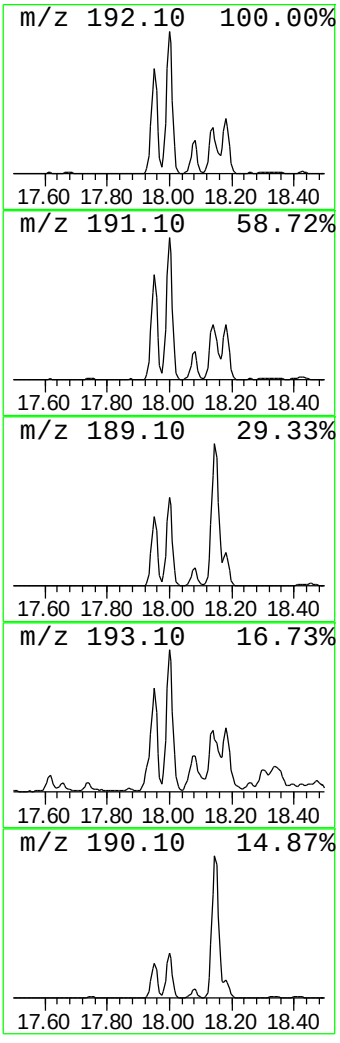
Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.00	36.54 ng/ul	18468300	Phenanthrene-d10	17.07

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	97
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96





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Misc :
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ClientSampleId : F2D06

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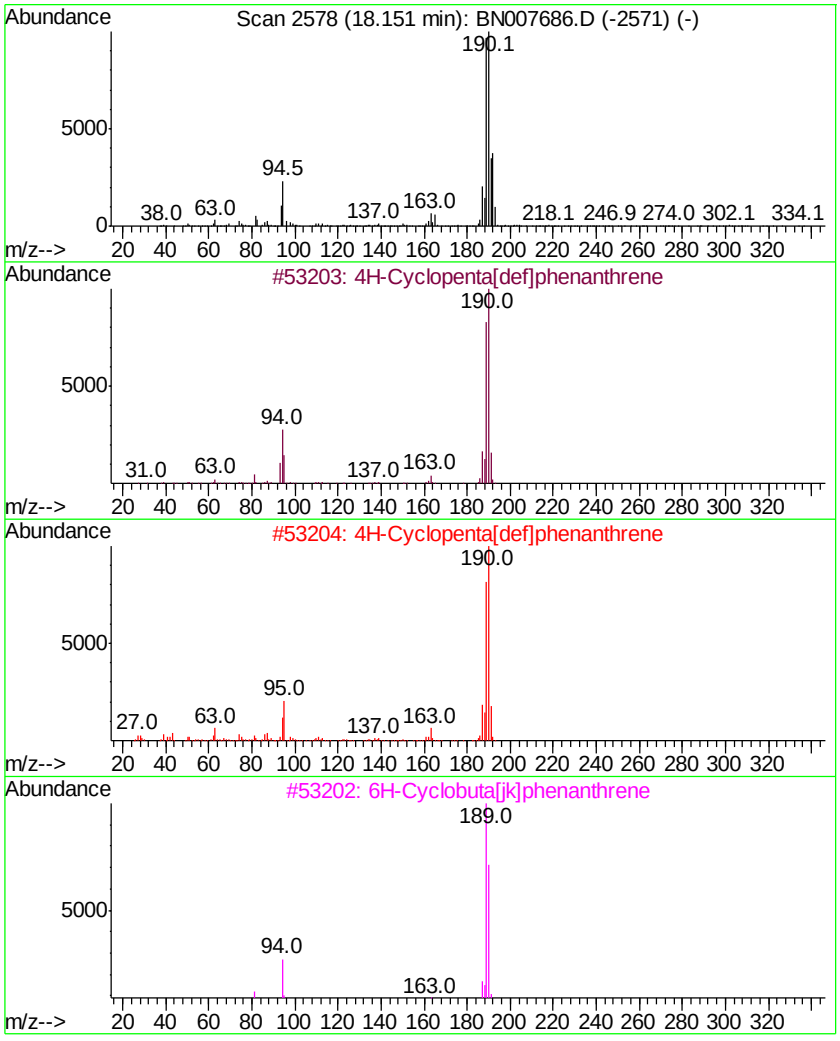
Quant Title : SVOA CALIBRATION

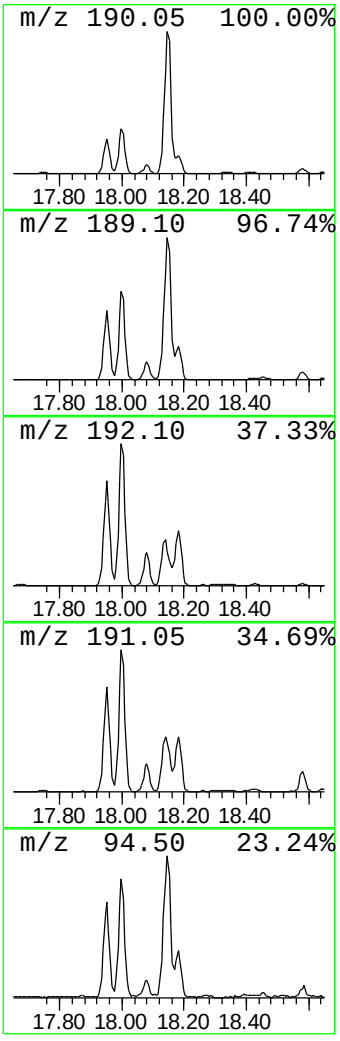
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.15	27.65 ng/ul	13975400	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	93
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	53
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	53
4	Thiophene-3-carboxaldehyde, 5-ch...	190	C5H4BClO3S	036155-87-0	50
5	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	50





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Instrument : BNA_N
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Quant Title : SVOA CALIBRATION

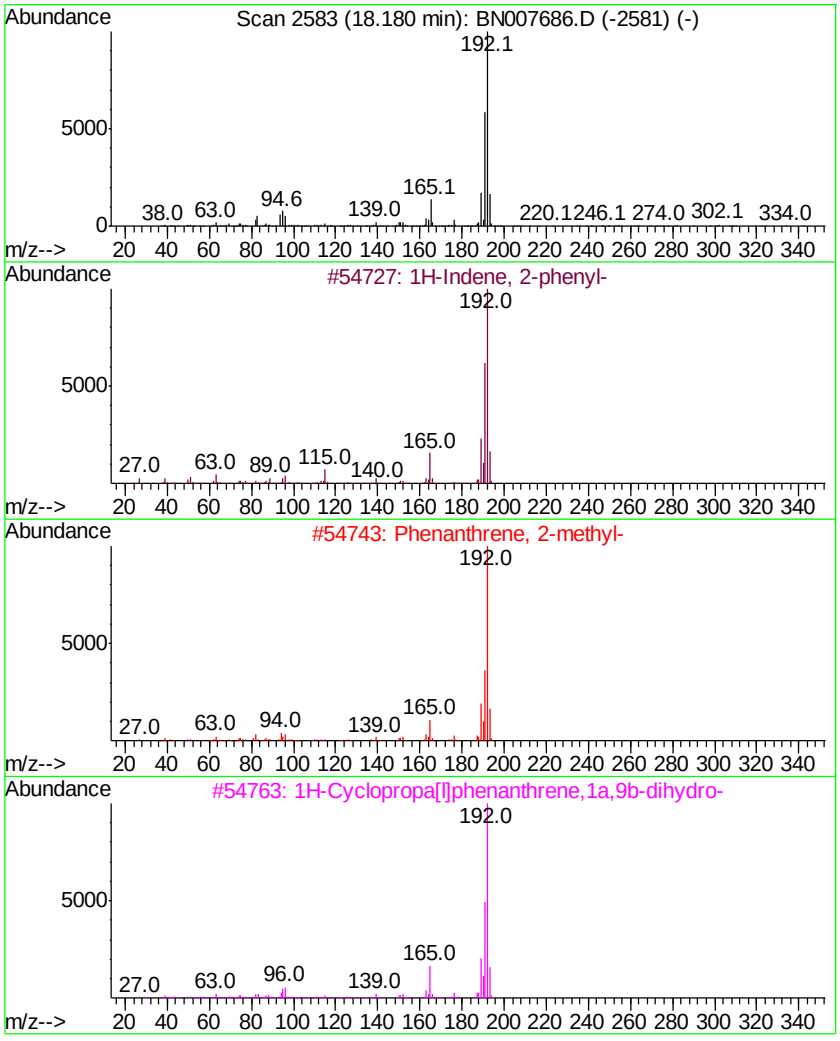
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

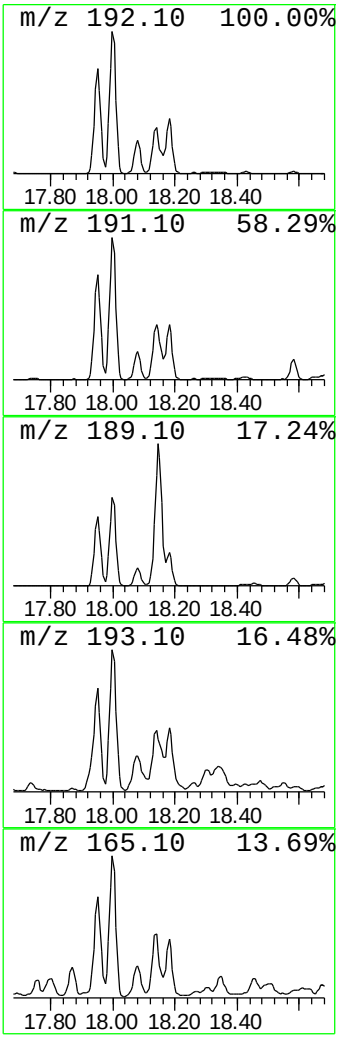
****

Peak Number 7 1H-Indene, 2-phenyl- Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.18	9.85 ng/ul	4977790	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	94
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	93





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Quant Title : SVOA CALIBRATION

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

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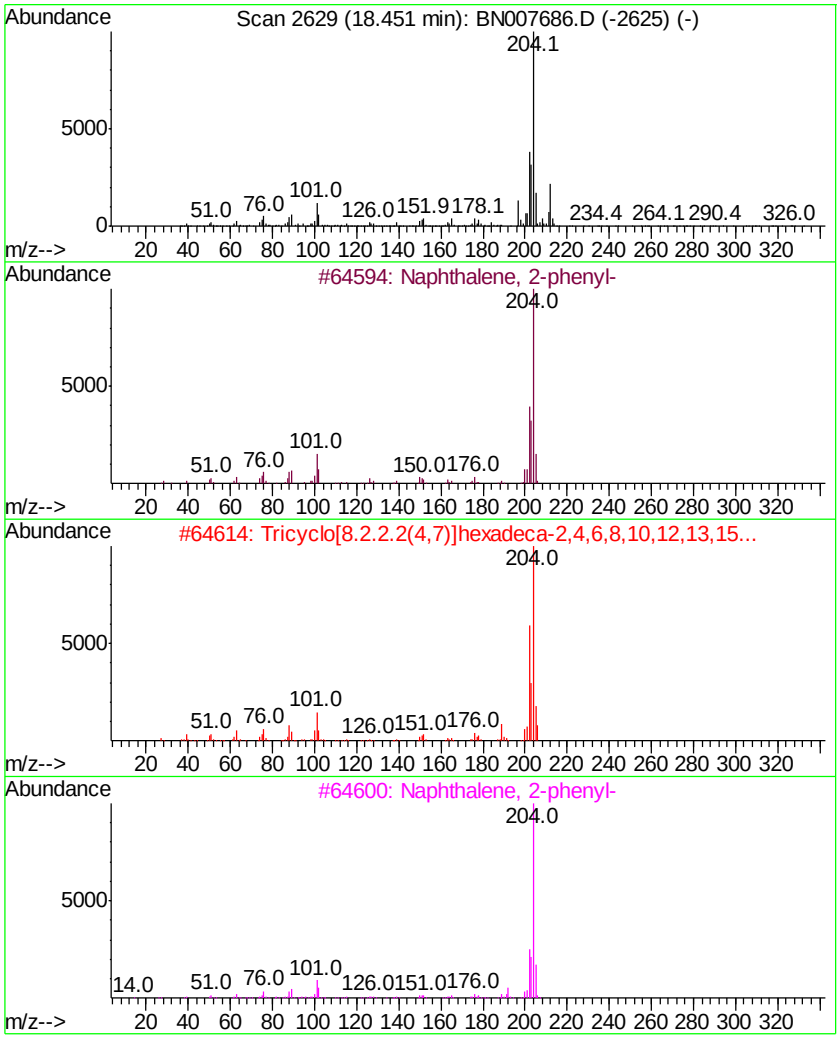
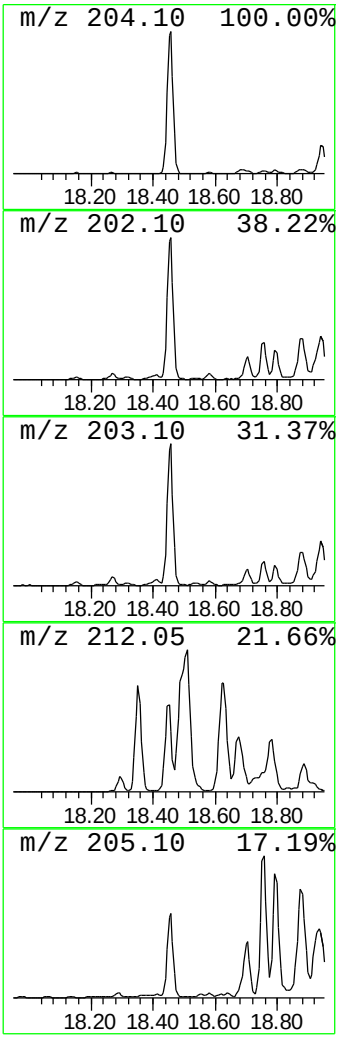
Peak Number 8 Naphthalene, 2-phenyl- Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.45	13.76 ng/ul	6953860	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	90
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	78
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
4	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	68
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	60





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ClientSampleId : F2D06

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Quant Title : SVOA CALIBRATION

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

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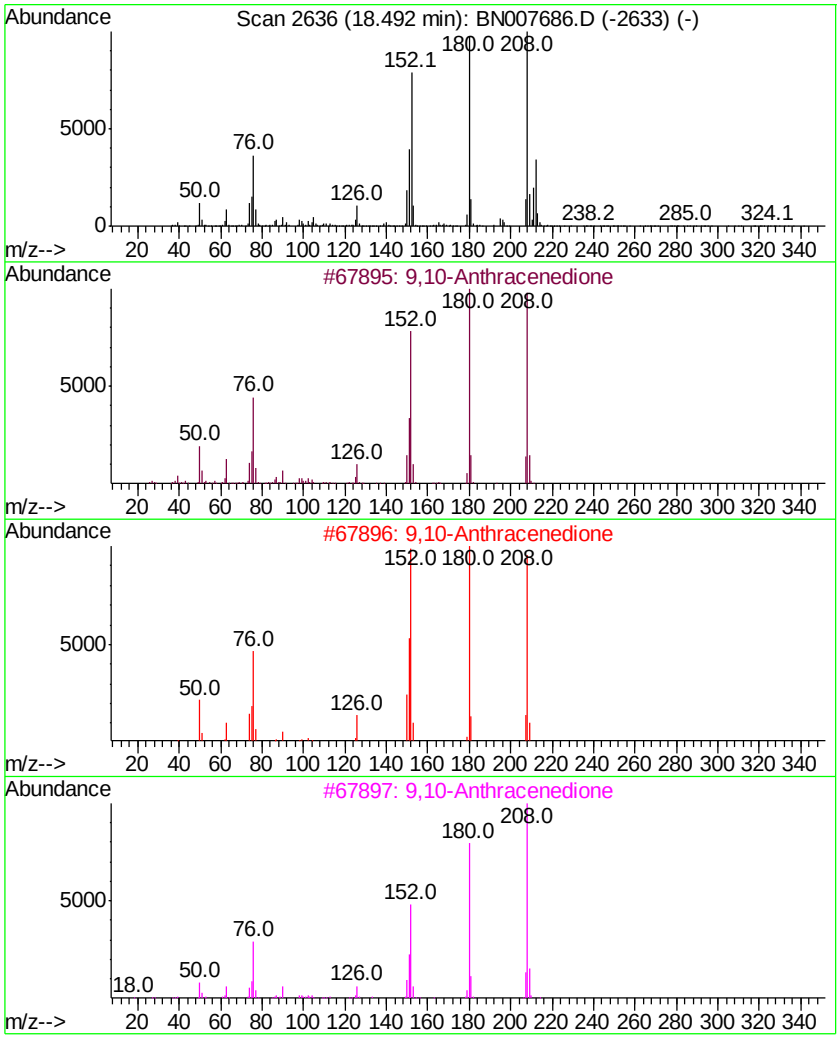
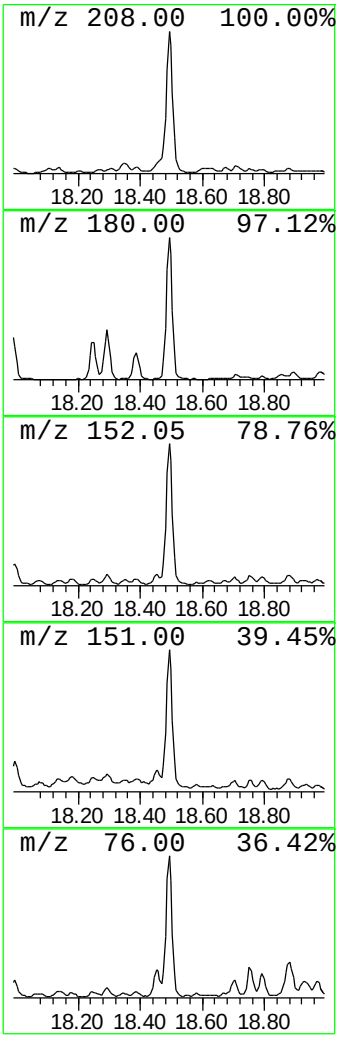
Peak Number 9 9,10-Anthracenedione Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.49	21.86 ng/ul	11048200	Phenanthrene-d10	17.07

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	97
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
4	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	78
5	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	60





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Quant Title : SVOA CALIBRATION

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

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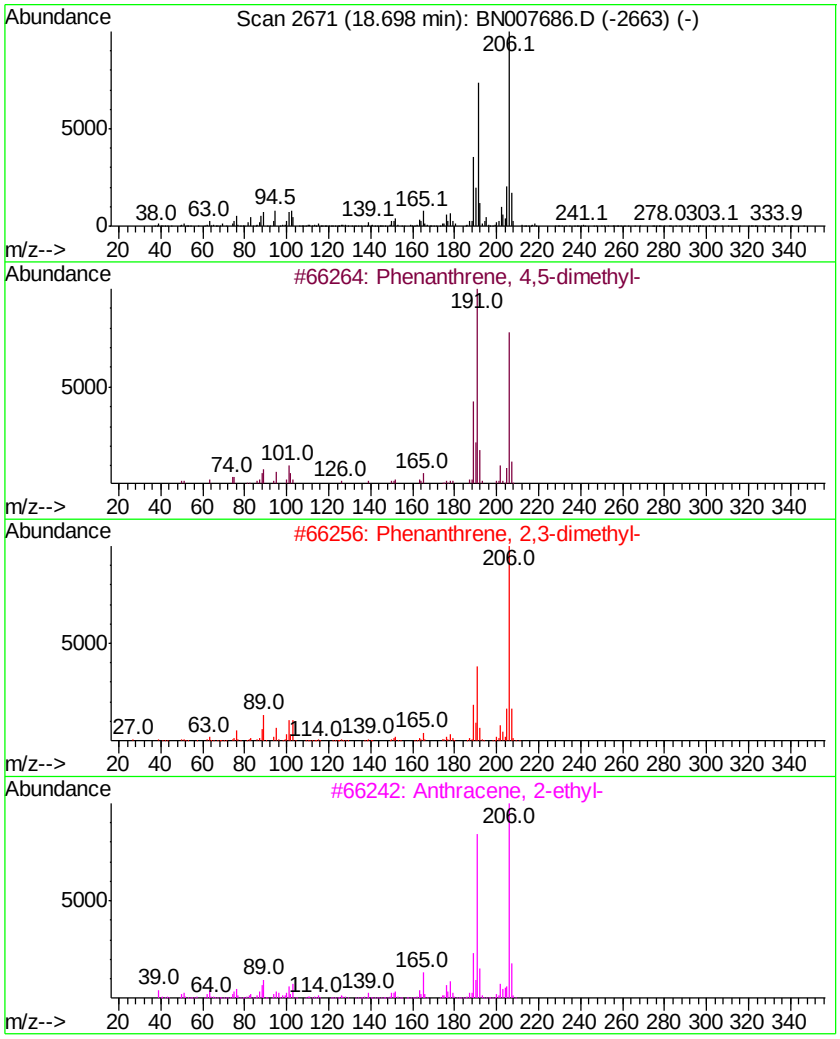
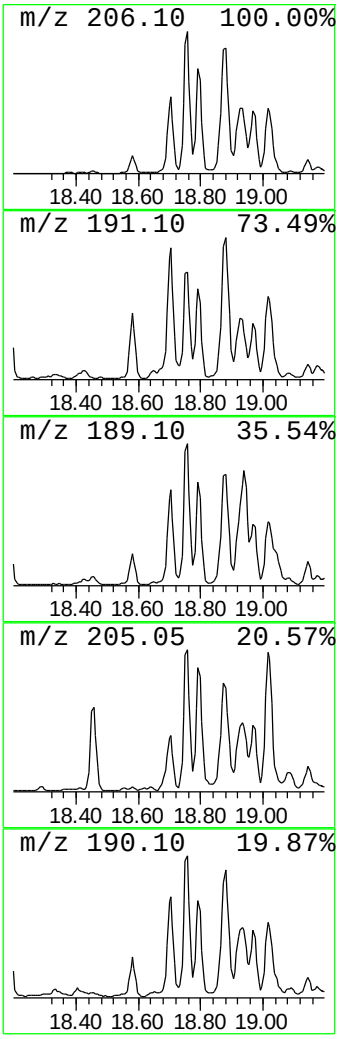
Peak Number 10 Phenanthrene, 4,5-dimethyl- Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.70	11.67 ng/ul	5897830	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	95
2	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	93
3	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	89
4	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	87
5	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	87





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ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D06

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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 Phenanthrene, 3,6-dimethyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.76	12.57 ng/ul	6351940	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	96
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
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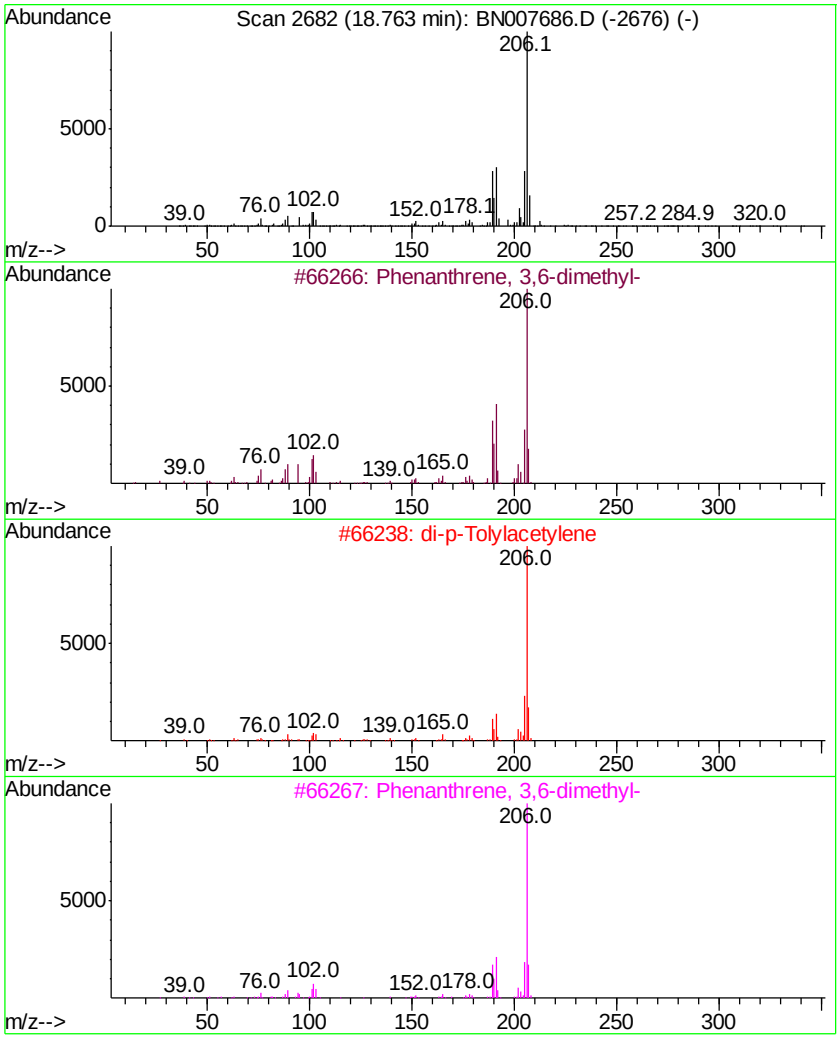

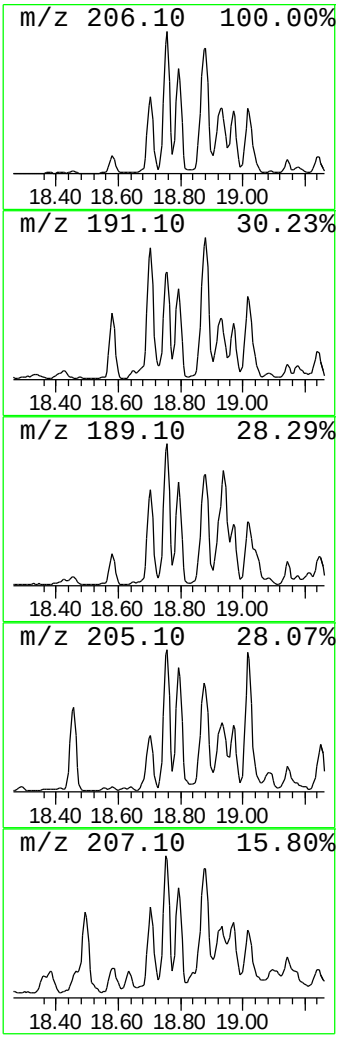

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Instrument : BNA_N
ClientSampleId : F2D06

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Quant Title : SVOA CALIBRATION

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

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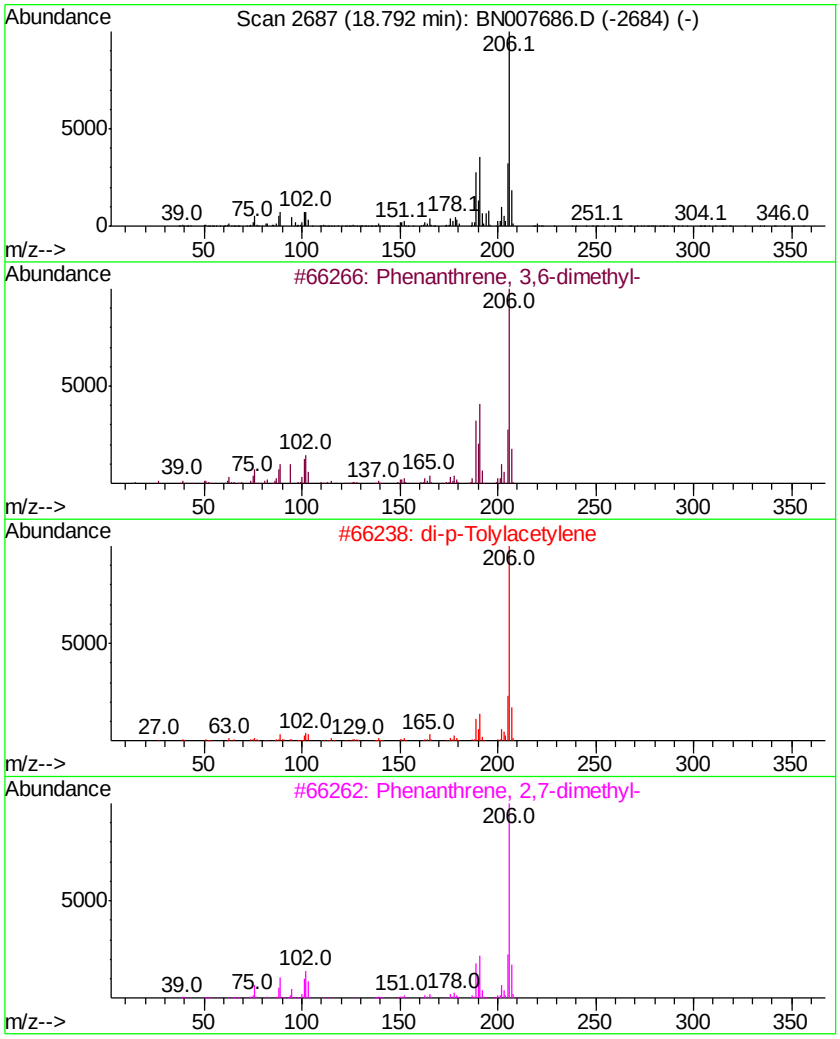
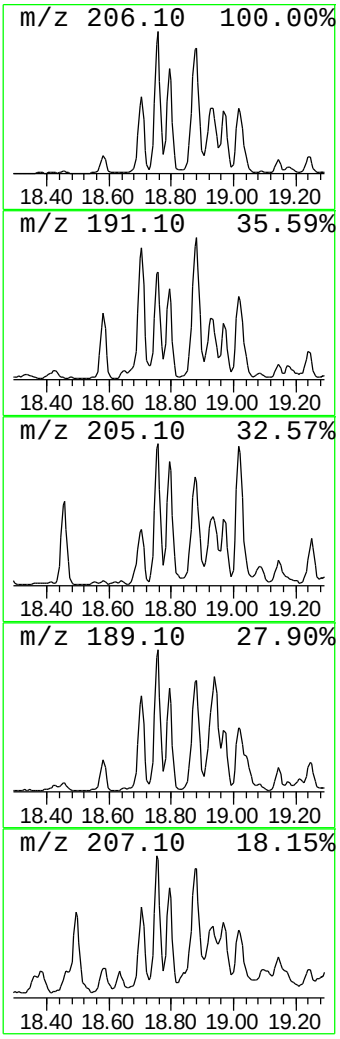
Peak Number 12 di-p-Tolylacetylene Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.79	11.15 ng/ul	5633430	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	94
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	94
3	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	93
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	90





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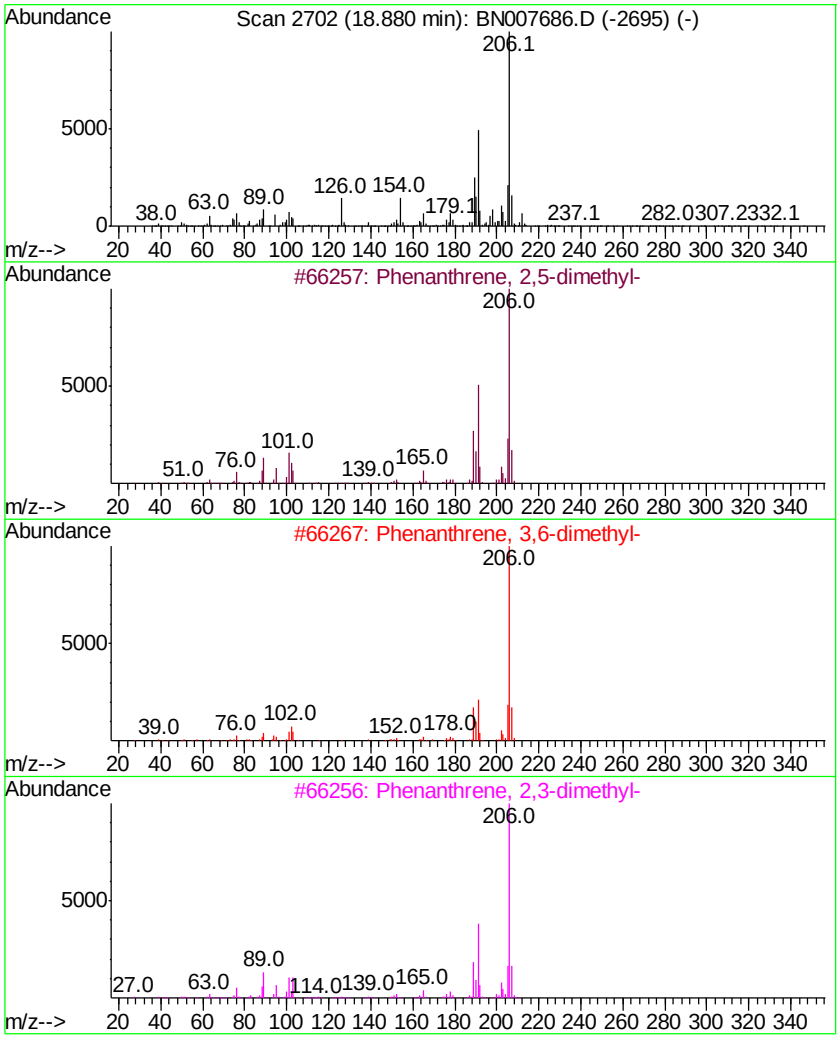
Quant Title : SVOA CALIBRATION

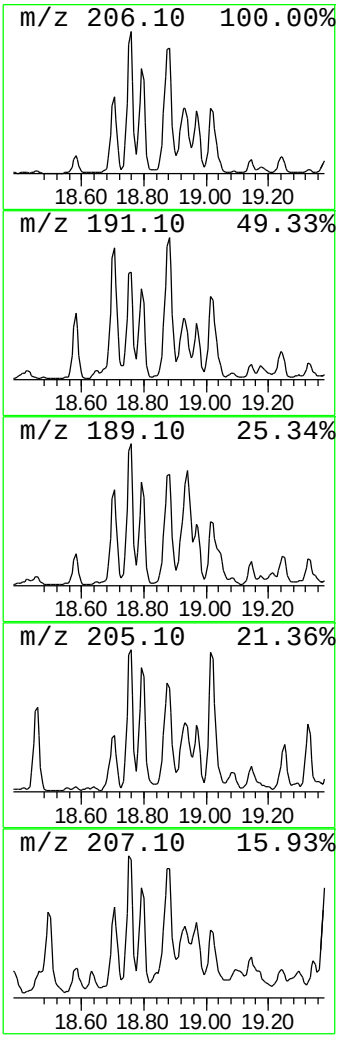
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.88	20.22 ng/ul	10216600	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	96
2	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	91
3	Phenanthrene, 2,3-dimethyl-	206	C16H14	003674-65-5	90
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	89





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Quant Title : SVOA CALIBRATION

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

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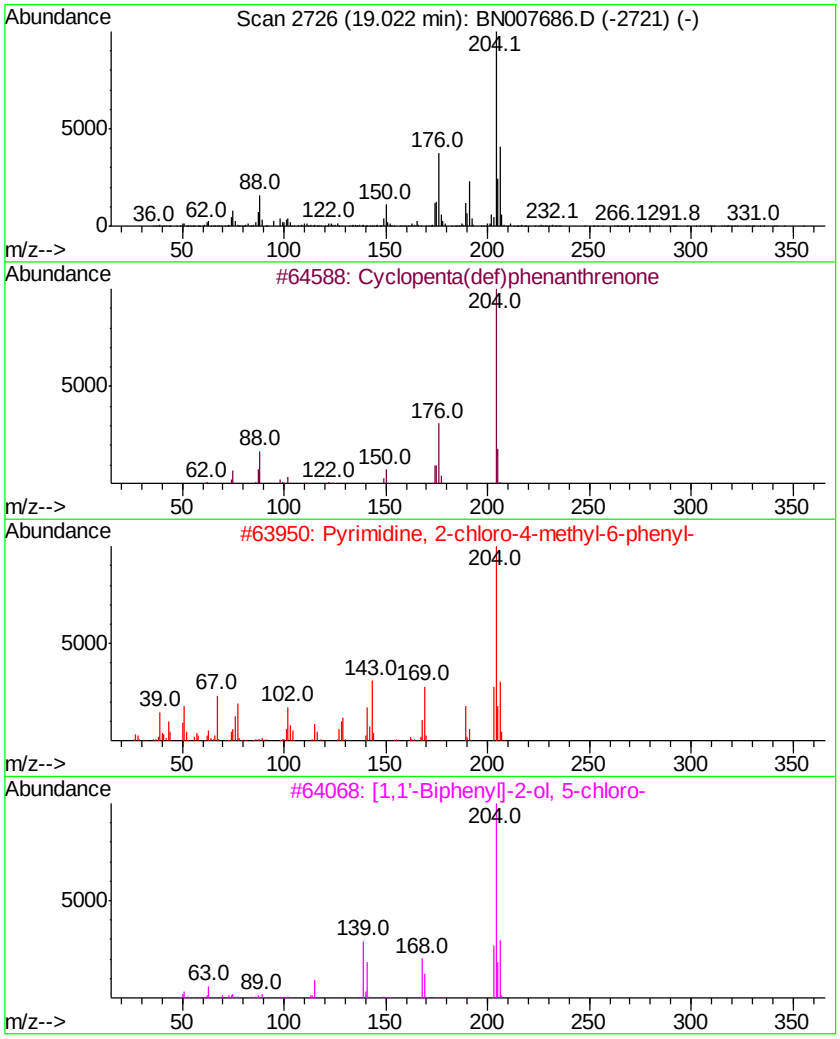
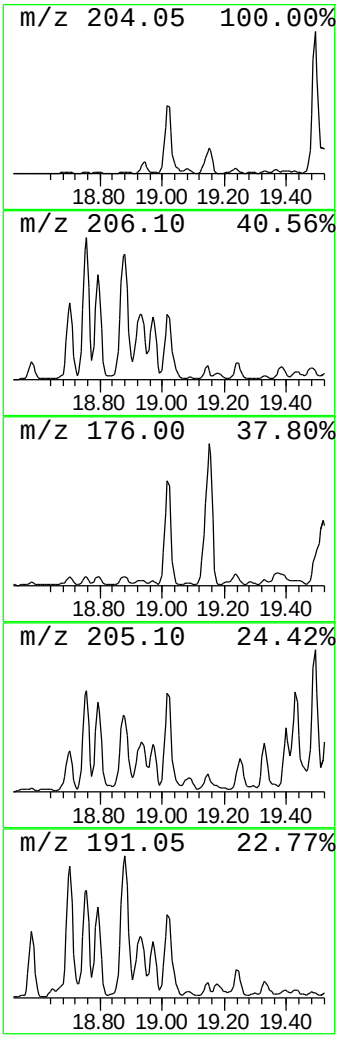
Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.02	19.20 ng/ul	9705400	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	98
2	Pyrimidine, 2-chloro-4-methyl-6-...	204	C11H9ClN2	032785-40-3	47
3	[1,1'-Biphenyl]-2-ol, 5-chloro-	204	C12H9ClO	000607-12-5	46
4	L-(+)-Rhamnopyranose, tetrakis(t...	452	C18H44O5Si4	1000380-12-9	43
5	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	38





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Quant Title : SVOA CALIBRATION

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

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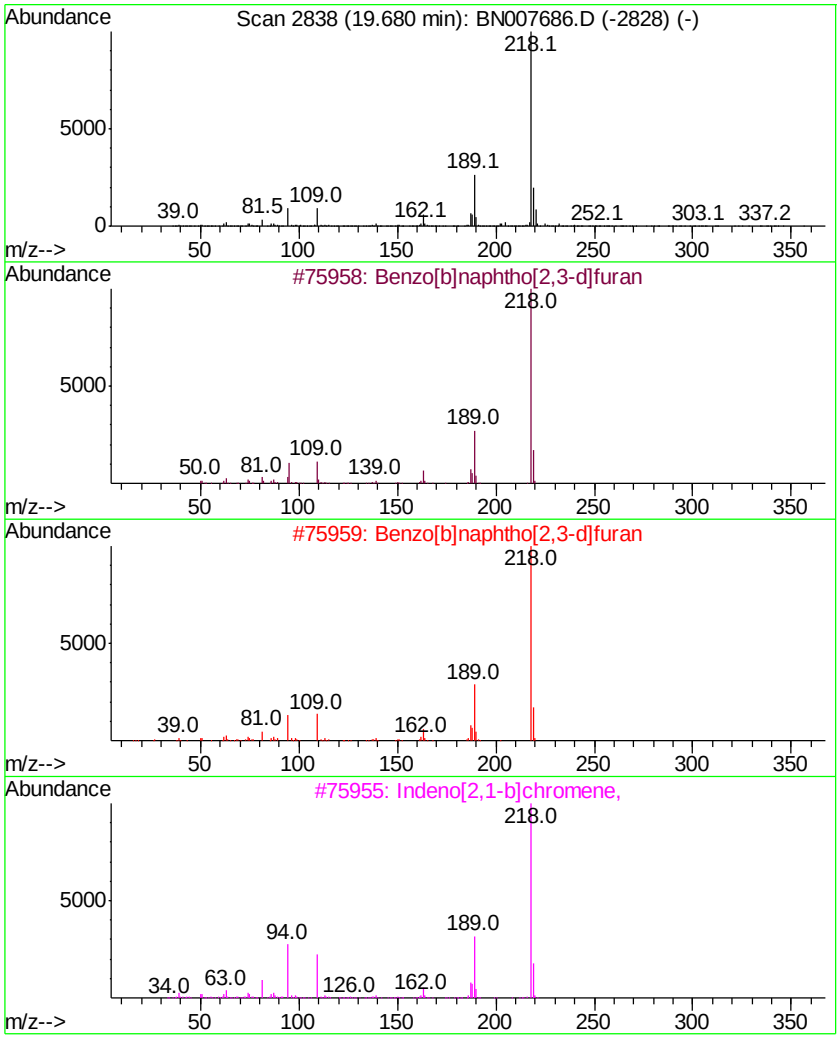
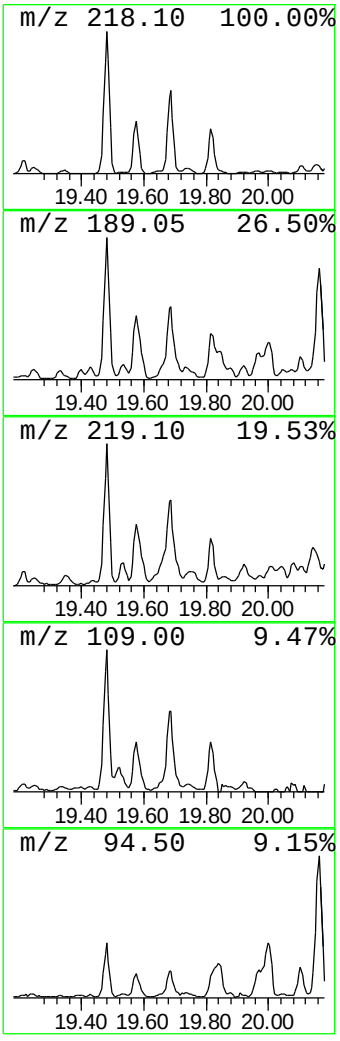
Peak Number 15 Benzo[b]naphtho[2,3-d]furan Concentration Rank 46

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.68	2.30 ng/ul	14942400	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	95
2	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	94
3	Indeno[2,1-b]chromene,	218	C16H10O	000243-24-3	94
4	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	94
5	Benzo[b]naphtho[2,3-d]furan	218	C16H10O	000243-42-5	93





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TIC Integration Parameters: LSCINT.P

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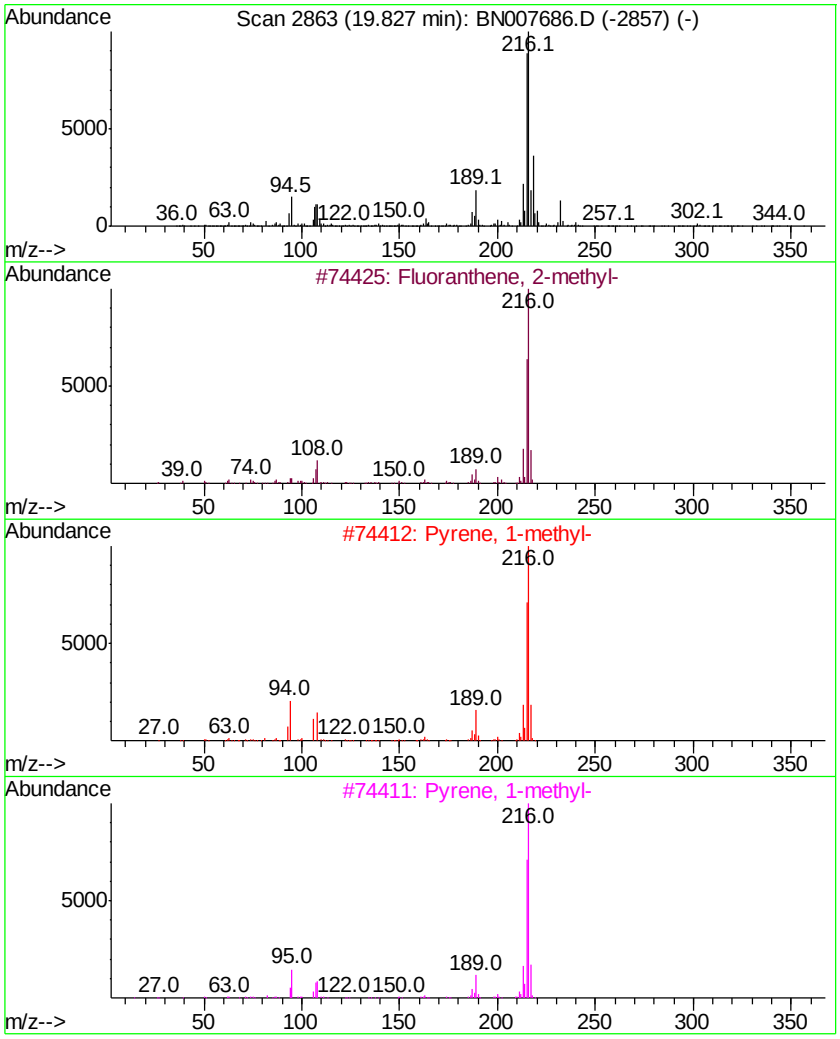
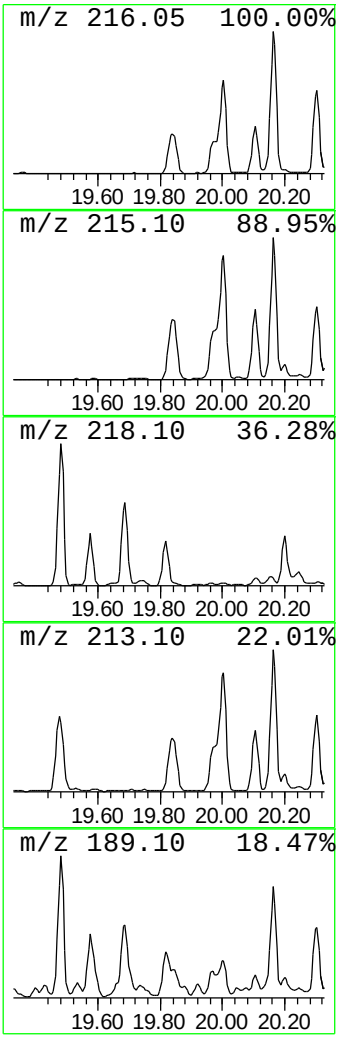
Peak Number 16 Fluoranthene, 2-methyl- Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.83	2.86 ng/ul	18609100	Chrysene-d12	21.28

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	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	89
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81





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Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D06

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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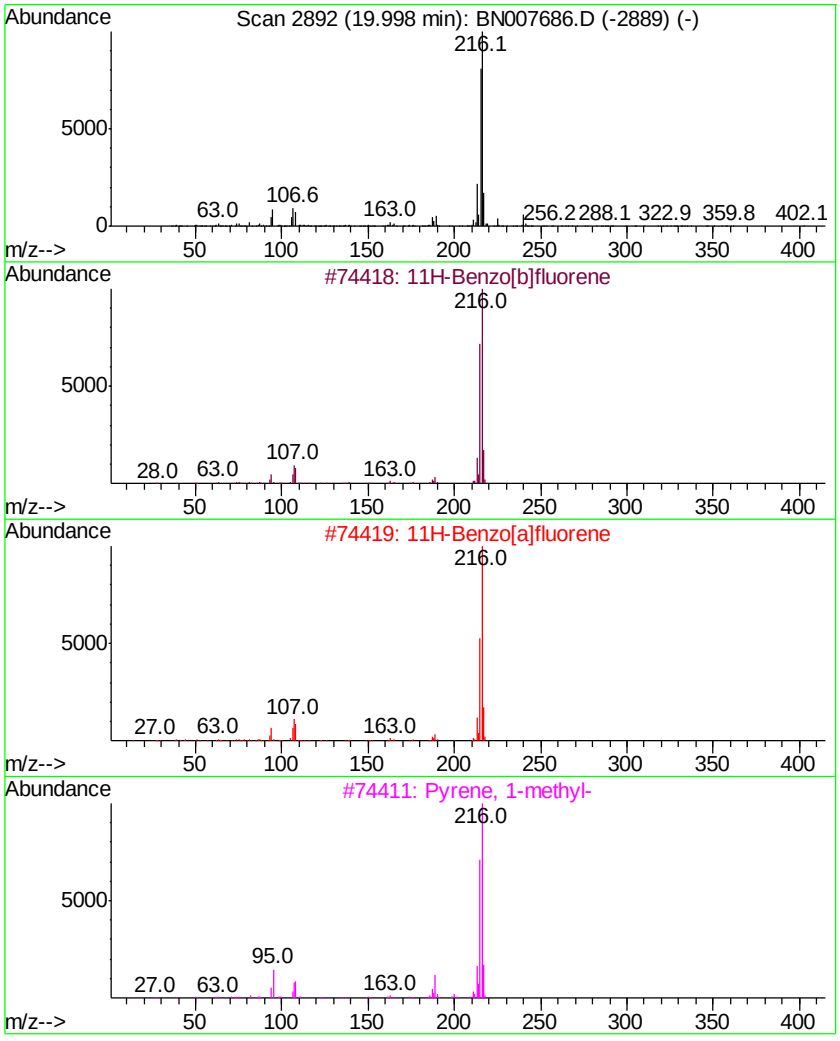
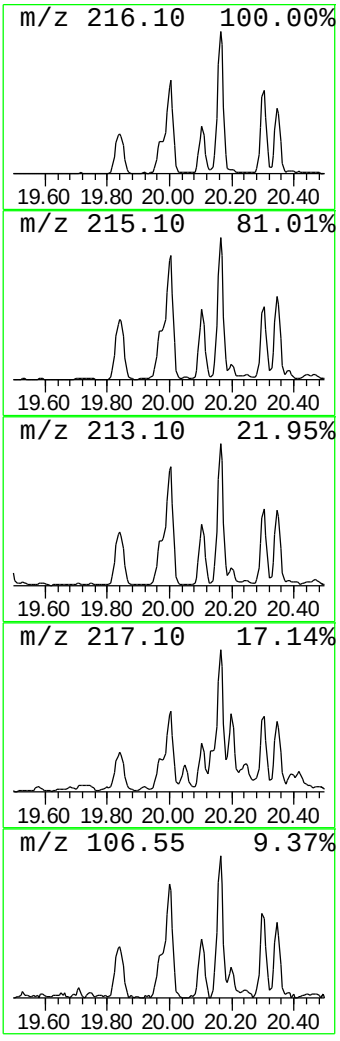
Peak Number 17 11H-Benzo[b]fluorene Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.00	3.22 ng/ul	20948000	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90





Library Search Compound Report

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Acq On : 17 Sep 2019 04:14
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Sample : K4633-08
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D06

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Quant Title : SVOA CALIBRATION

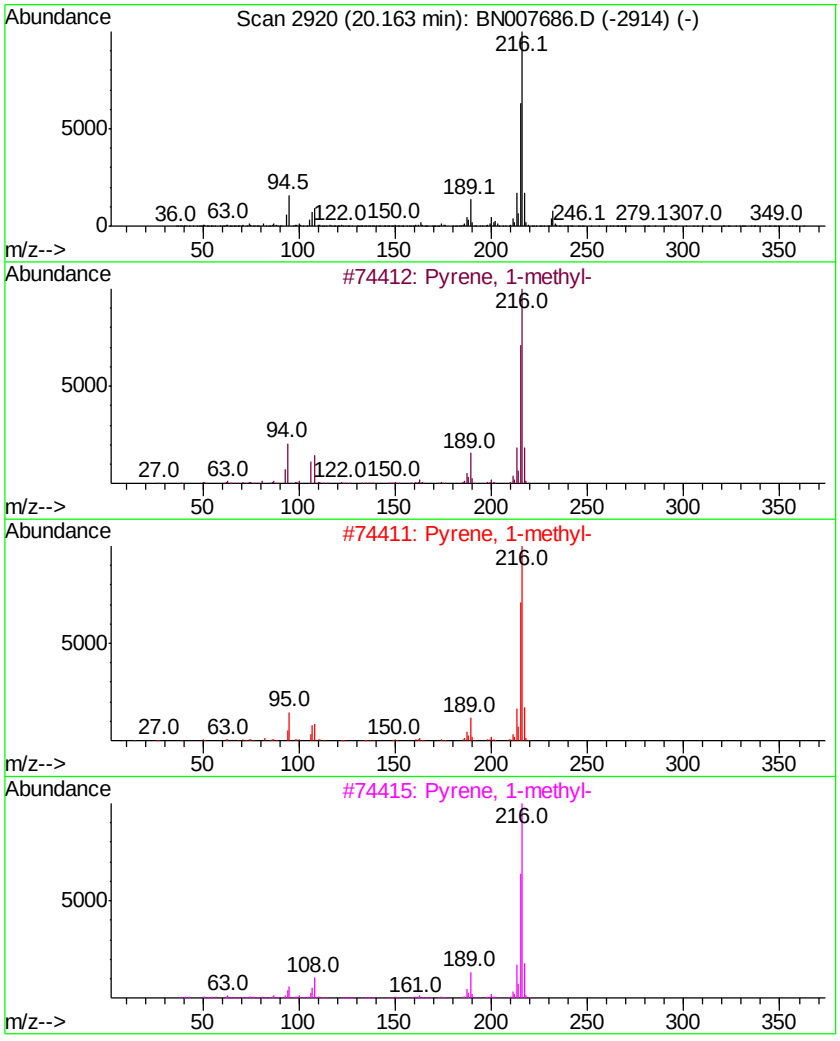
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

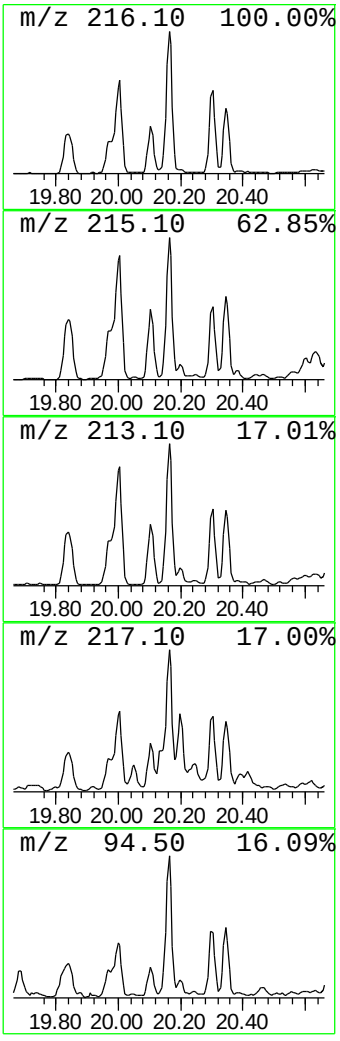
****

Peak Number 18 Pyrene, 1-methyl- Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.16	5.23 ng/ul	33999000	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
4	Pyrene, 4-methyl-	216	C17H12	003353-12-6	94
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94





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Operator : HP/JU
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Misc :
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ClientSampleId : F2D06

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Quant Title : SVOA CALIBRATION

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

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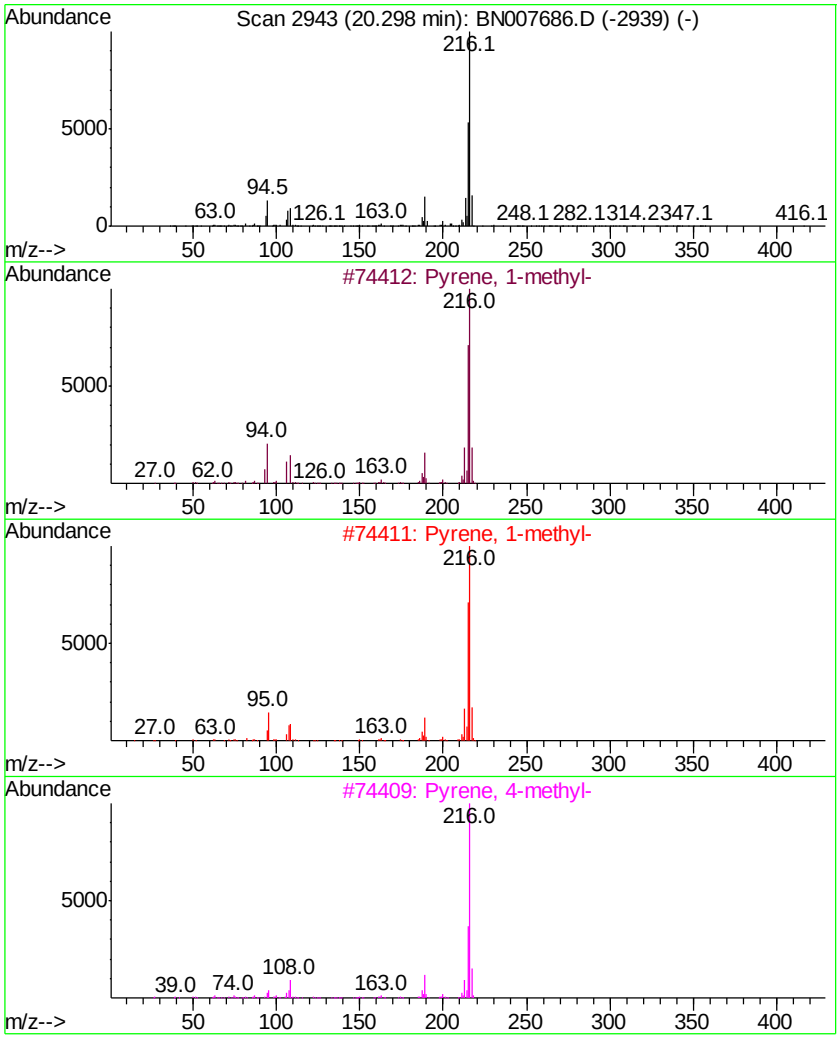
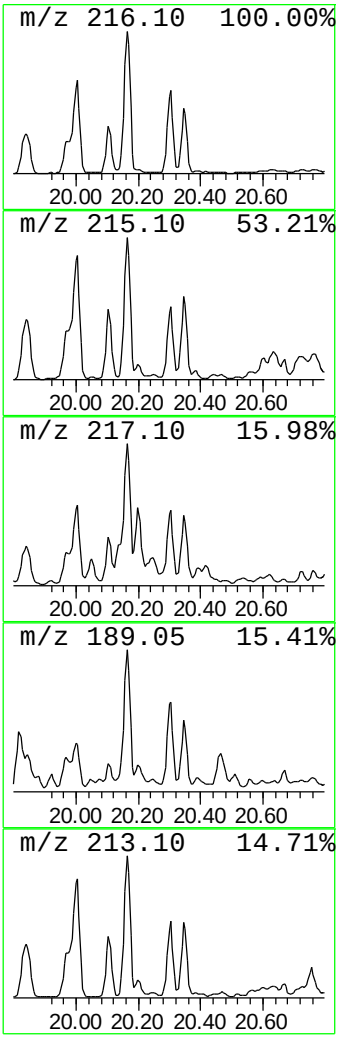
Peak Number 19 Pyrene, 4-methyl- Concentration Rank 49

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.30	2.10 ng/ul	13672000	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
3	Pyrene, 4-methyl-	216	C17H12	003353-12-6	95
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94





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Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D06

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Quant Title : SVOA CALIBRATION

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

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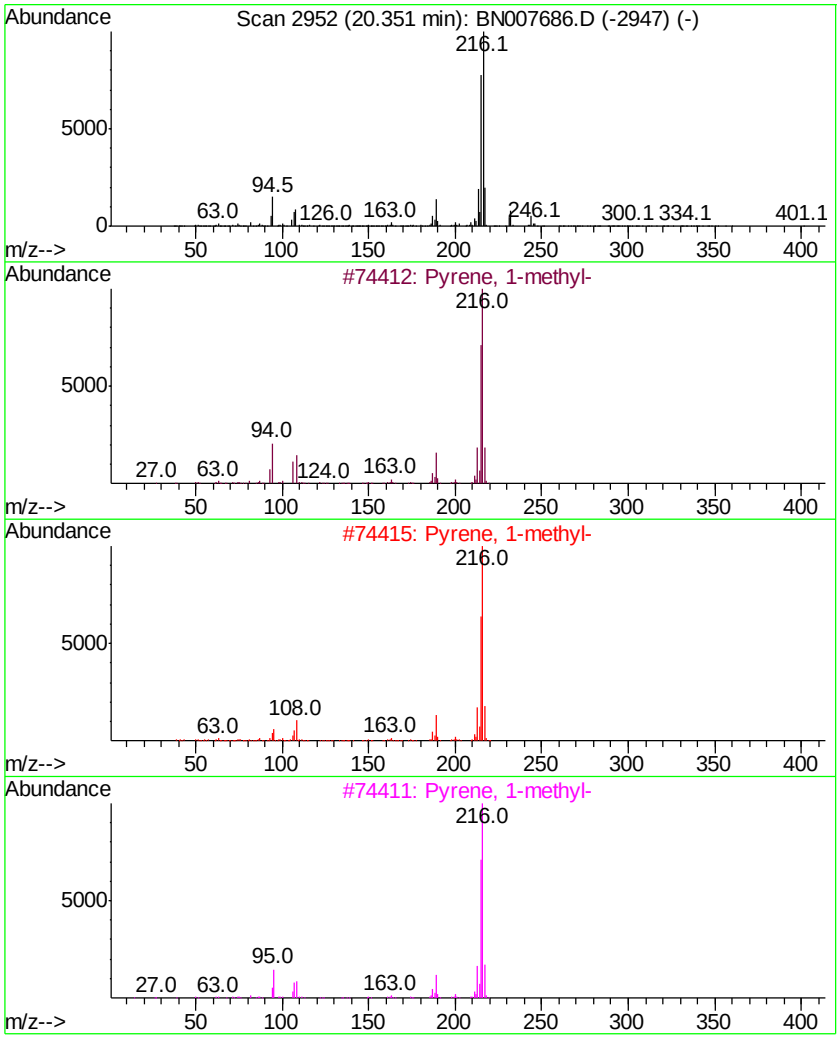
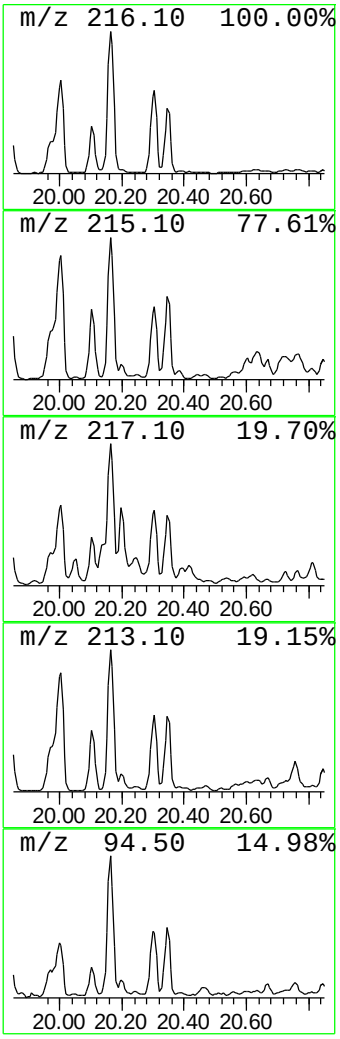
Peak Number 20 Pyrene, 2-methyl- Concentration Rank 47

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.35	2.18 ng/ul	14138700	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	97
2	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93





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Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D06

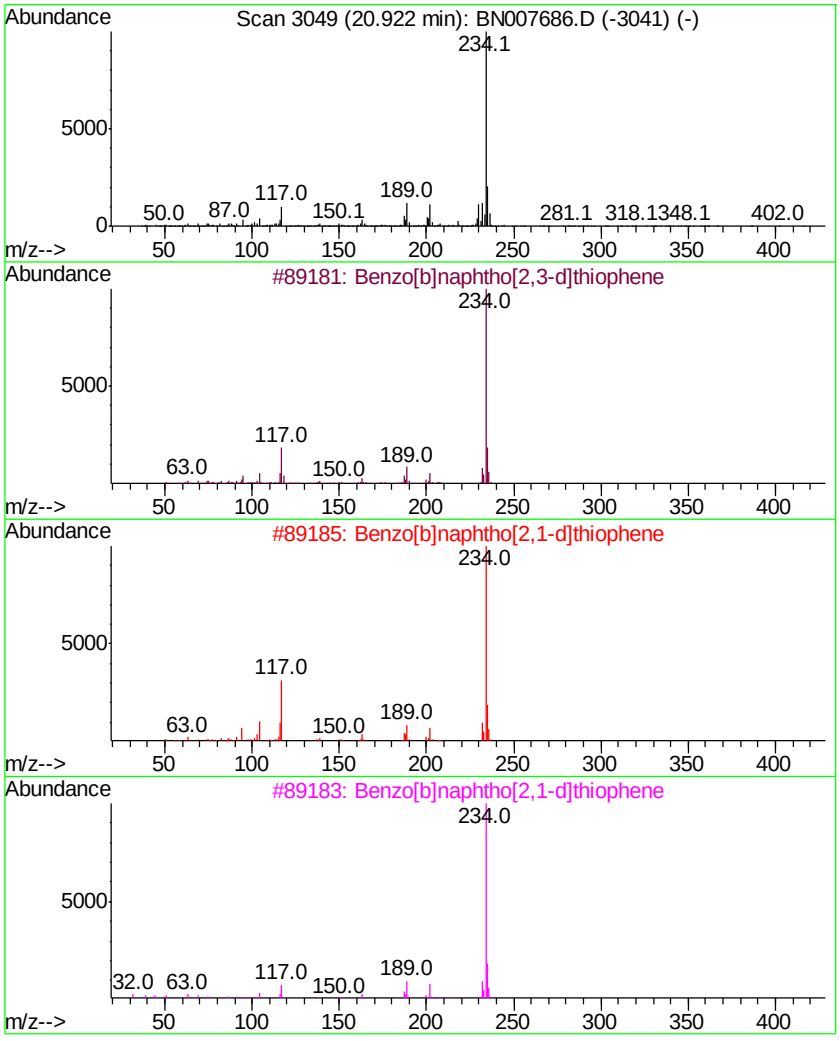
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN091619MA.M
Quant Title : SVOA CALIBRATION

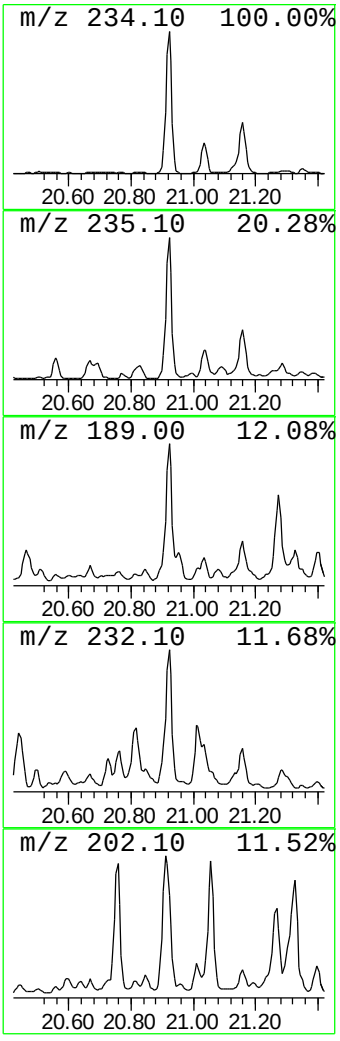
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 22 Benzo[b]naphtho[2,3-d]thiop... Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.92	7.59 ng/ul	49328600	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	93
2	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93
3	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	93
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	91
5	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	91





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ClientSampleId : F2D06

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Quant Title : SVOA CALIBRATION

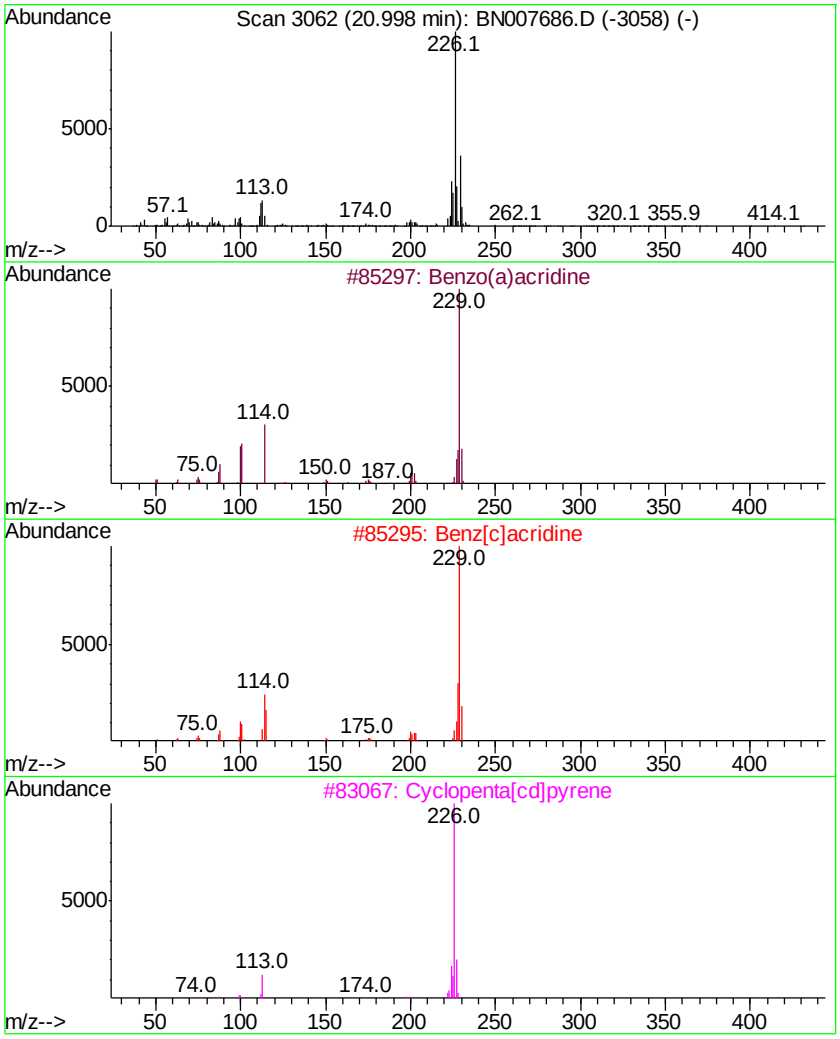
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

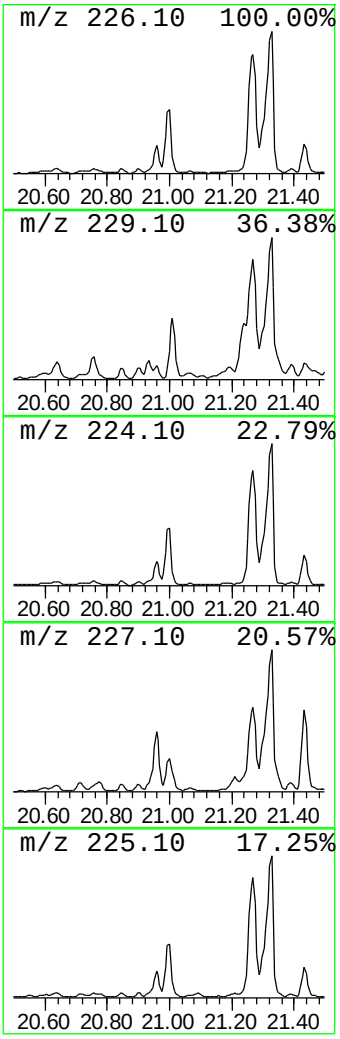
****

Peak Number 23 unknown-02 Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.00	3.74 ng/ul	24324500	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(a)acridine	229	C17H11N	000225-11-6	46
2	Benz[c]acridine	229	C17H11N	000225-51-4	38
3	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	38
4	N,N-Dimethylindoaniline	226	C14H14N2O	002150-58-5	35
5	5H-Dibenz[b,f]azepine, 3-chloro-...	229	C14H12ClN	032943-25-2	32





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ClientSampleId : F2D06

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Quant Title : SVOA CALIBRATION

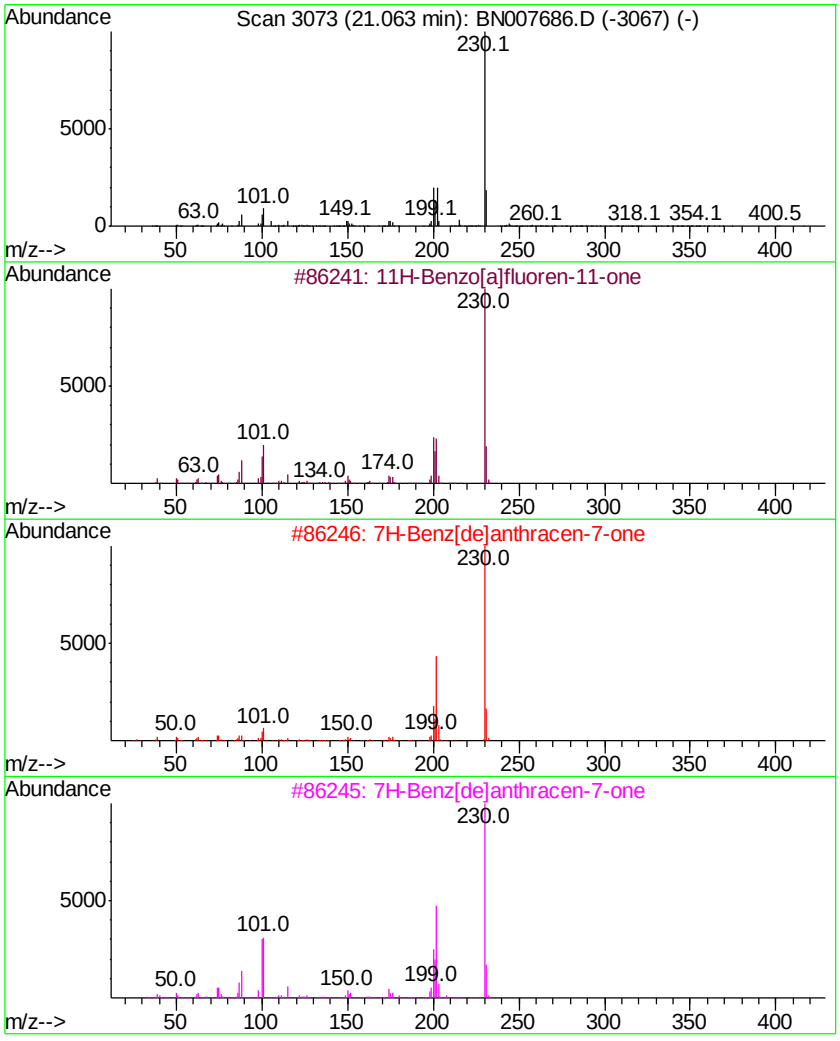
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

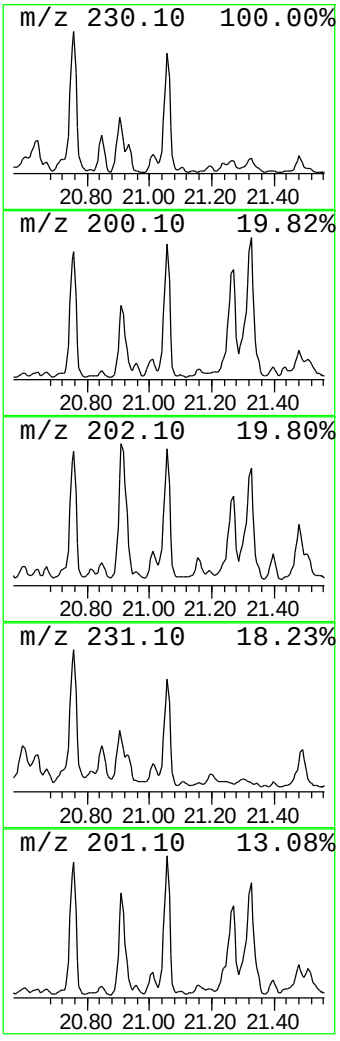
****

Peak Number 24 11H-Benzo[a]fluoren-11-one Concentration Rank 39

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.06	3.53 ng/ul	22947200	Chrysene-d12	21.28

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	83
5	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	81





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Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D06

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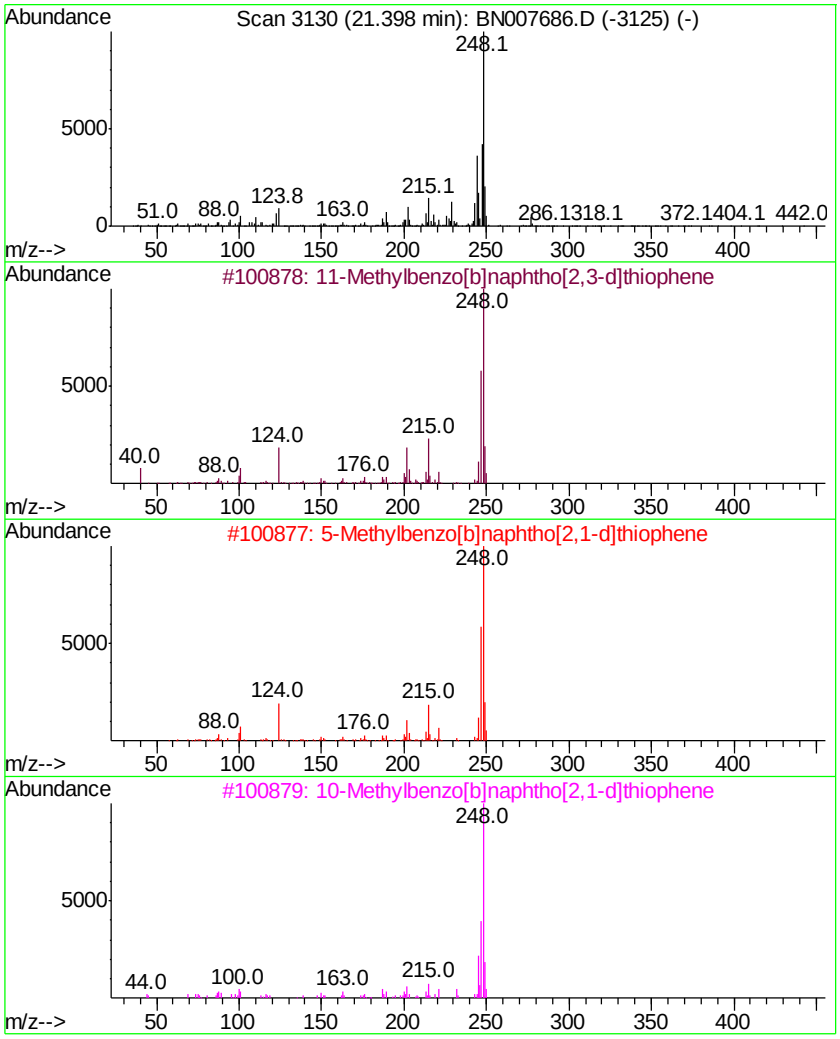
Quant Title : SVOA CALIBRATION

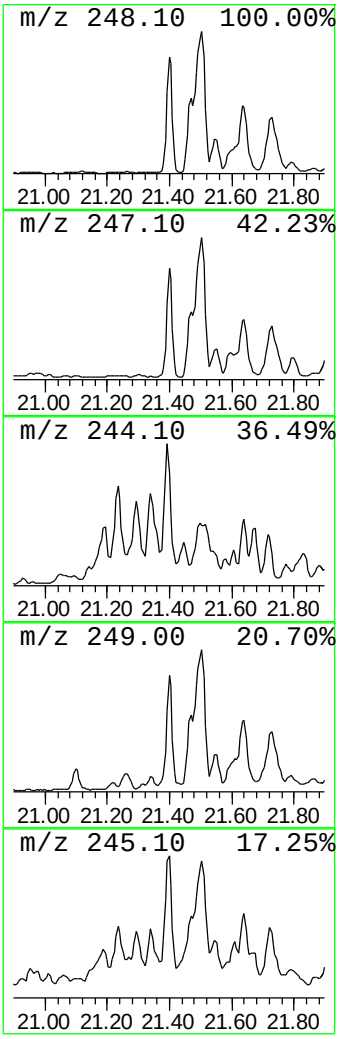
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 25 11-Methylbenzo[b]naphtho[2,... Concentration Rank 48

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.40	2.17 ng/ul	14087900	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11-Methylbenzo[b]naphtho[2,3-d]t...	248	C17H12S	079966-33-9	95
2	5-Methylbenzo[b]naphtho[2,1-d]th...	248	C17H12S	004567-49-1	89
3	10-Methylbenzo[b]naphtho[2,1-d]t...	248	C17H12S	083821-58-3	86
4	Benzo[b]naphtho[2,3-d]thiophene,...	248	C17H12S	024360-63-2	76
5	2-Methylbenzo[b]naphtho[2,1-d]th...	248	C17H12S	1000326-06-8	72





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Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D06

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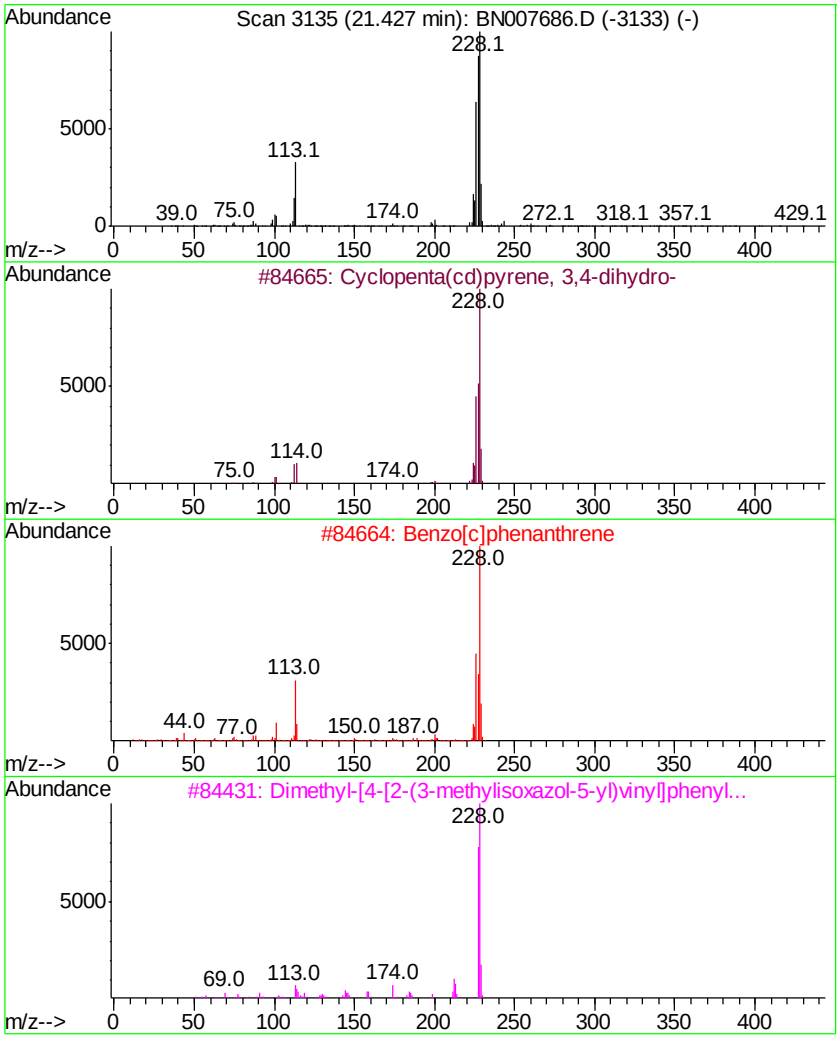
Quant Title : SVOA CALIBRATION

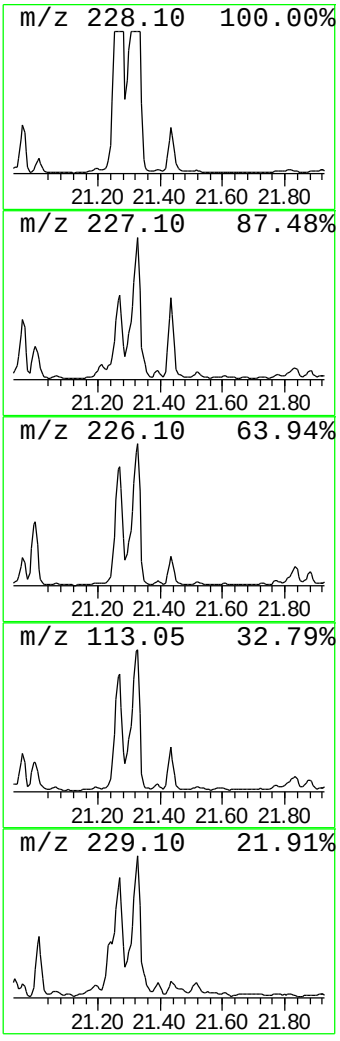
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 26 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 50

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.43	2.06 ng/ul	13373700	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	96
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	55
3	Dimethyl-[4-[2-(3-methylisoxazol...	228	C14H16N2O	1000306-39-6	50
4	Isothiazol-5-amine, 4-bromo-3-ch...	226	C4H4BrClN2S	1000272-59-9	47
5	Diphenylvinylphosphine oxide	228	C14H13OP	002096-78-8	47





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Misc :
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Instrument : BNA_N
ClientSampleId : F2D06

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Quant Title : SVOA CALIBRATION

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

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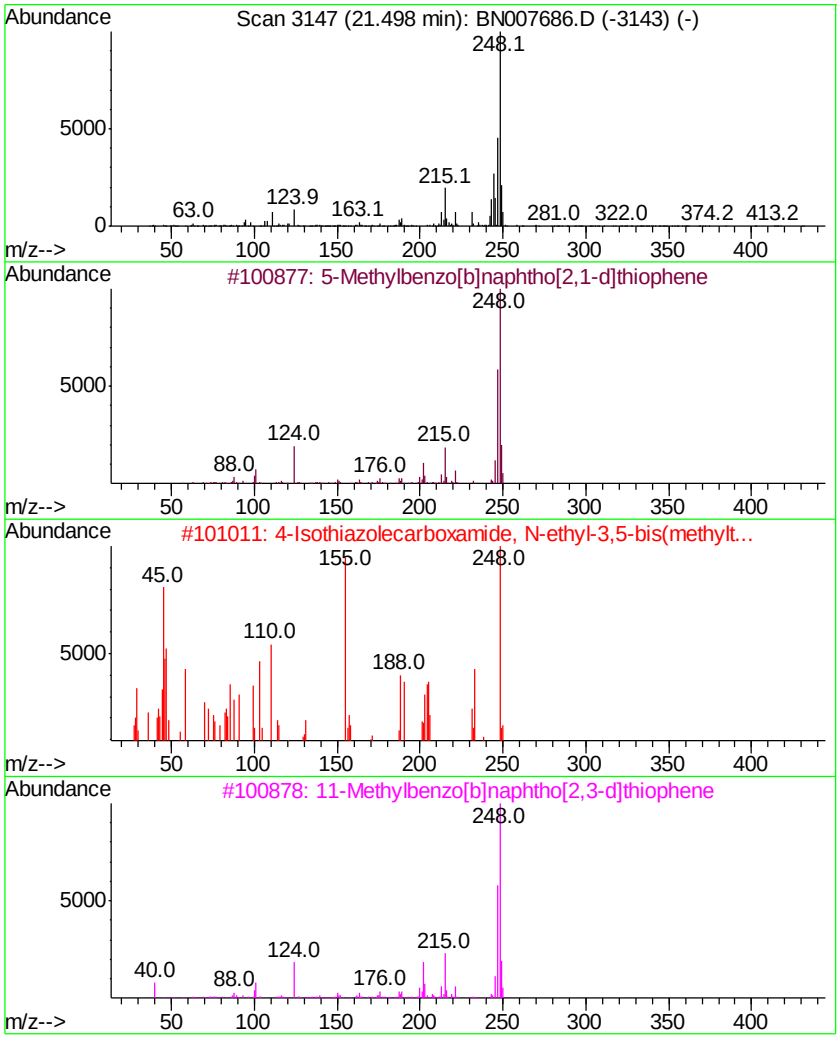
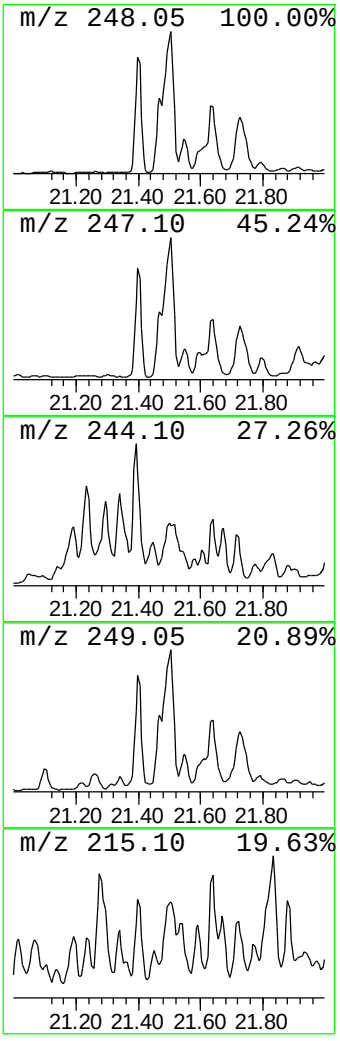
Peak Number 27 5-Methylbenzo[b]naphtho[2,1... Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.50	3.06 ng/ul	19868200	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Methylbenzo[b]naphtho[2,1-d]th...	248	C17H12S	004567-49-1	90
2	4-Isothiazolecarboxamide, N-ethy...	248	C8H12N2OS3	037572-35-3	83
3	11-Methylbenzo[b]naphtho[2,3-d]t...	248	C17H12S	079966-33-9	81
4	3-Methylphenanthro[9,10-b]thiophene	248	C17H12S	082420-70-0	76
5	3-Methylbenzo[b]naphtho[2,1-d]th...	248	C17H12S	004567-45-7	68





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Misc :
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Quant Title : SVOA CALIBRATION

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

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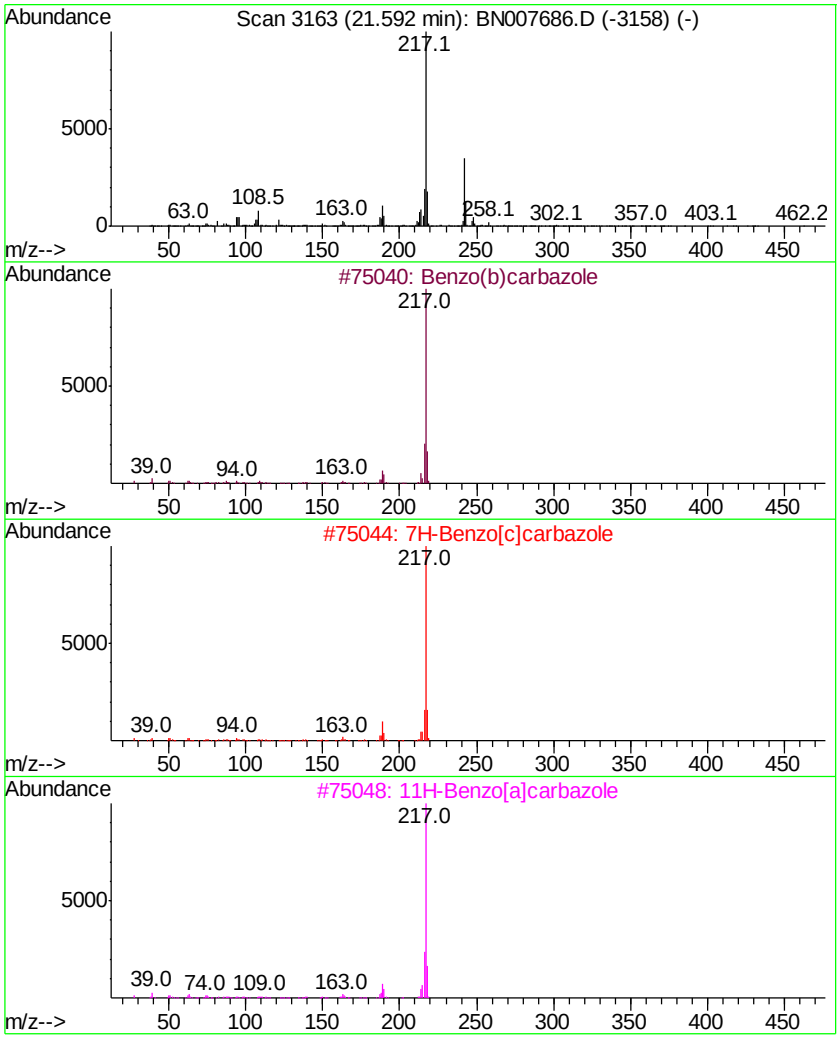
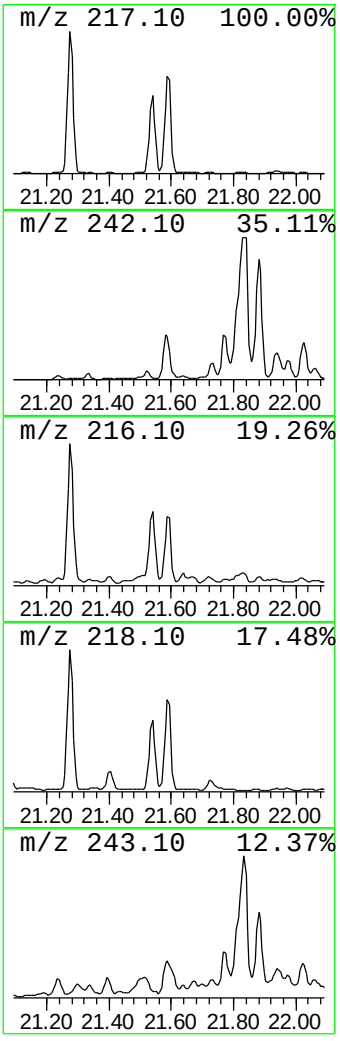
Peak Number 28 Benzo(b)carbazole Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.59	3.85 ng/ul	24980300	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo(b)carbazole	217	C16H11N	000243-28-7	64
2	7H-Benzo[c]carbazole	217	C16H11N	000205-25-4	64
3	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	58
4	1-Aminopyrene	217	C16H11N	001606-67-3	53
5	1-Aminopyrene	217	C16H11N	001606-67-3	50





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Quant Title : SVOA CALIBRATION

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

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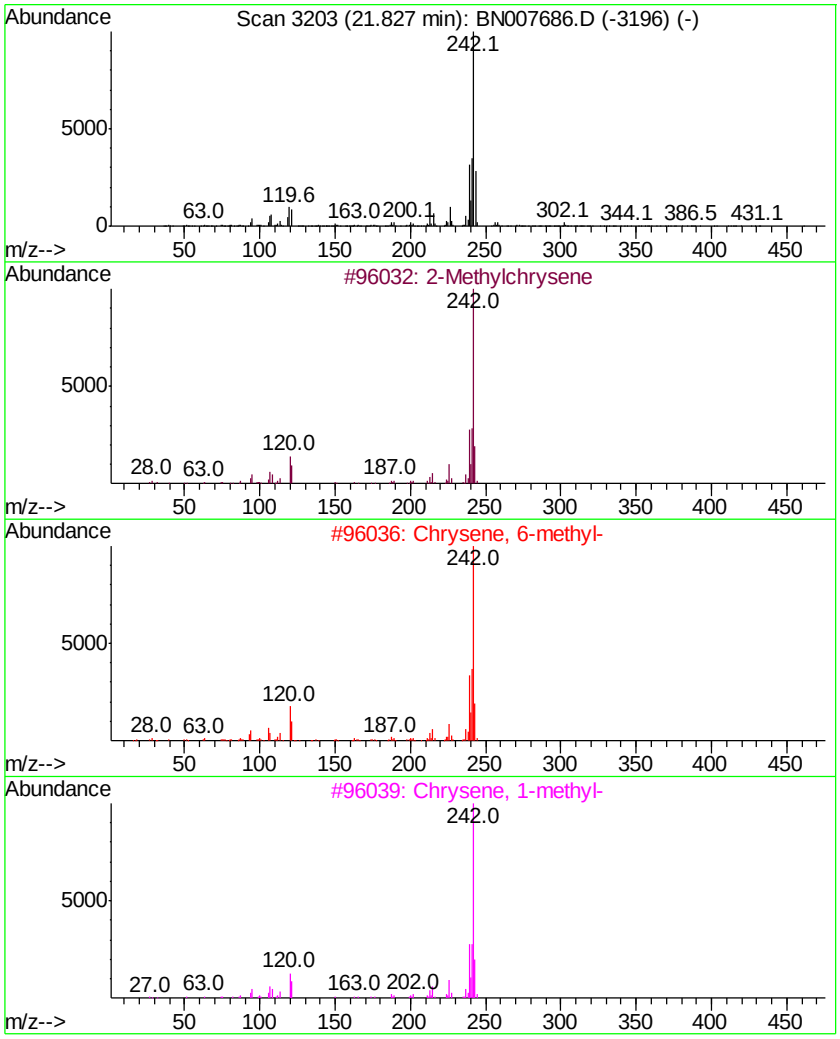
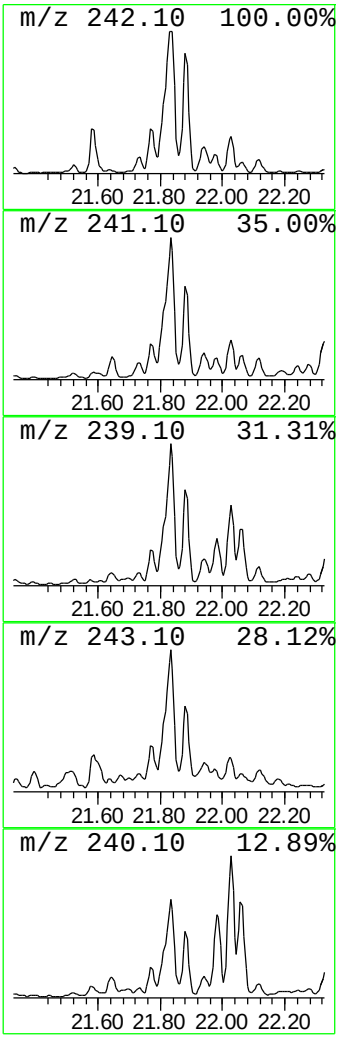
Peak Number 29 2-Methylchrysene Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.83	8.85 ng/ul	57468600	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Methylchrysene	242	C19H14	003351-32-4	96
2	Chrysene, 6-methyl-	242	C19H14	001705-85-7	96
3	Chrysene, 1-methyl-	242	C19H14	003351-28-8	95
4	Benz[a]anthracene, 12-methyl-	242	C19H14	002422-79-9	93
5	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	93





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN091619\
Data File : BN007686.D
Acq On : 17 Sep 2019 04:14
Operator : HP/JU
Sample : K4633-08
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D06

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

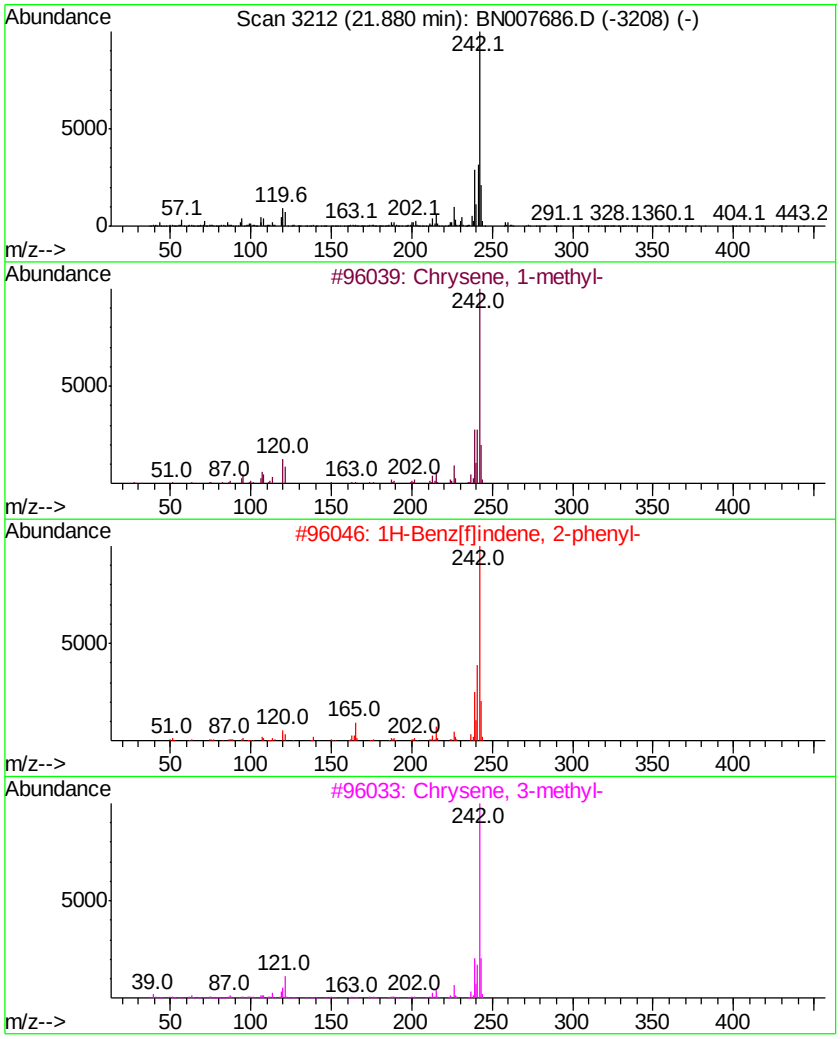
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

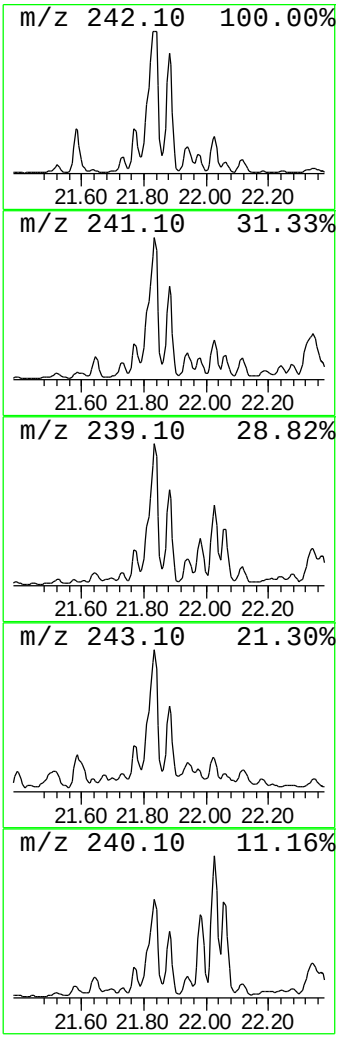
****

Peak Number 30 Chrysene, 1-methyl- Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.88	4.04 ng/ul	26226100	Chrysene-d12	21.28

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Chrysene, 1-methyl-	242	C19H14	003351-28-8	95
2	1H-Benz[f]indene, 2-phenyl-	242	C19H14	1000305-22-4	94
3	Chrysene, 3-methyl-	242	C19H14	003351-31-3	94
4	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	93
5	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	93





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN091619\
Data File : BN007686.D
Acq On : 17 Sep 2019 04:14
Operator : HP/JU
Sample : K4633-08
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument : BNA_N
ClientSampleId : F2D06

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
unknown-01	3.02	177.4	ng/ul	37037800	1	7.70	4175080	20.0
9H-Fluoren-9-one	16.73	9.2	ng/ul	4643900	4	17.07	10107500	20.0
Dibenzothiophene	16.89	8.3	ng/ul	4196450	4	17.07	10107500	20.0
Phenanthrene, 2-m...	17.95	24.7	ng/ul	12501900	4	17.07	10107500	20.0
Phenanthrene, 1-m...	18.00	36.5	ng/ul	18468300	4	17.07	10107500	20.0
4H-Cyclopenta[def...	18.15	27.6	ng/ul	13975400	4	17.07	10107500	20.0
1H-Indene, 2-phenyl-	18.18	9.8	ng/ul	4977790	4	17.07	10107500	20.0
Naphthalene, 2-ph...	18.45	13.8	ng/ul	6953860	4	17.07	10107500	20.0
9,10-Anthracenedione	18.49	21.9	ng/ul	11048200	4	17.07	10107500	20.0
Phenanthrene, 4,5...	18.70	11.7	ng/ul	5897830	4	17.07	10107500	20.0
Phenanthrene, 3,6...	18.76	12.6	ng/ul	6351940	4	17.07	10107500	20.0
di-p-Tolylacetylene	18.79	11.2	ng/ul	5633430	4	17.07	10107500	20.0
Phenanthrene, 2,5...	18.88	20.2	ng/ul	10216600	4	17.07	10107500	20.0
Cyclopenta(def)ph...	19.02	19.2	ng/ul	9705400	4	17.07	10107500	20.0
Benzo[b]naphtho[2...	19.68	2.3	ng/ul	14942400	5	21.28	129912000	20.0
Fluoranthene, 2-m...	19.83	2.9	ng/ul	18609100	5	21.28	129912000	20.0
11H-Benzo[b]fluorene	20.00	3.2	ng/ul	20948000	5	21.28	129912000	20.0
Pyrene, 1-methyl-	20.16	5.2	ng/ul	33999000	5	21.28	129912000	20.0
Pyrene, 4-methyl-	20.30	2.1	ng/ul	13672000	5	21.28	129912000	20.0
Pyrene, 2-methyl-	20.35	2.2	ng/ul	14138700	5	21.28	129912000	20.0
Benzo[b]naphtho[2...	20.92	7.6	ng/ul	49328600	5	21.28	129912000	20.0
unknown-02	21.00	3.7	ng/ul	24324500	5	21.28	129912000	20.0
11H-Benzo[a]fluor...	21.06	3.5	ng/ul	22947200	5	21.28	129912000	20.0
11-Methylbenzo[b]...	21.40	2.2	ng/ul	14087900	5	21.28	129912000	20.0
Cyclopenta(cd)pyr...	21.43	2.1	ng/ul	13373700	5	21.28	129912000	20.0
5-Methylbenzo[b]n...	21.50	3.1	ng/ul	19868200	5	21.28	129912000	20.0
Benzo(b)carbazole	21.59	3.9	ng/ul	24980300	5	21.28	129912000	20.0
2-Methylchrysene	21.83	8.8	ng/ul	57468600	5	21.28	129912000	20.0
Chrysene, 1-methyl-	21.88	4.0	ng/ul	26226100	5	21.28	129912000	20.0