LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM071616\
Data File : BM006505.D
Acq On : 17 Jul 2016 08:08
Operator : UM/SJ
Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 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:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.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	7.616	846	855	867	rBV	466108	763248	7.69%	0.700%
2	10.392	1319	1327	1333	rBV	622364	1086470	10.95%	0.996%
3	13.680	1880	1886	1889	rBV	85627	125668	1.27%	0.115%
4	13.722	1889	1893	1902	rVB2	81322	140801	1.42%	0.129%
5	13.986	1927	1938	1949	rBV2	332177	698243	7.04%	0.640%
6	14.263	1975	1985	1991	rBV2	846521	1422782	14.34%	1.304%
7	14.327	1991	1996	2005	rVB	928090	1434144	14.46%	1.315%
8	14.669	2049	2054	2062	rVB	134688	207896	2.10%	0.191%
9	15.263	2150	2155	2160	rVB	155946	215978	2.18%	0.198%
10	15.316	2160	2164	2175	rVB	191860	317743	3.20%	0.291%
11	15.616	2210	2215	2227	rVB	192840	326666	3.29%	0.299%
12	15.757	2229	2239	2248	rBV2	194093	478362	4.82%	0.438%
13	16.321	2325	2335	2340	rBV3	161819	366115	3.69%	0.336%
14	16.468	2355	2360	2366	rVB	101978	172823	1.74%	0.158%
15	16.551	2366	2374	2377	rBV2	91784	169983	1.71%	0.156%
16	16.680	2392	2396	2402	rVB5	72105	124602	1.26%	0.114%
17	16.751	2402	2408	2414	rVV2	106156	231672	2.34%	0.212%
18	16.833	2417	2422	2436	rVB	201088	371546	3.75%	0.341%
19	17.015	2447	2453	2456	rBV	1201576	1750702	17.65%	1.605%
20	17.057	2456	2460	2466	rVV	1727702	2522338	25.43%	2.312%
21	17.115	2466	2470	2471	rVV	186011	242767	2.45%	0.223%
22	17.151	2471	2476	2481	rVV	1532290	2321360	23.40%	2.128%
23	17.204	2481	2485	2491	rVB2	87561	165559	1.67%	0.152%
24	17.427	2517	2523	2525	rBV2	69923	111642	1.13%	0.102%
25	17.539	2537	2542	2547	rBV	126579	185820	1.87%	0.170%
26	17.598	2548	2552	2562	rVB4	85249	191120	1.93%	0.175%
27	17.739	2571	2576	2584	rVB	68857	131783	1.33%	0.121%
28	17.892	2596	2602	2606	rBV	591348	879984	8.87%	0.807%
29	17.939	2606	2610	2616	rVB	419471	596682	6.02%	0.547%
30	18.021	2617	2624	2629	rBV	399319	619735	6.25%	0.568%
31	18.086	2629	2635	2639	rVV2	1417502	2387993	24.07%	2.189%
32	18.121	2639	2641	2649	rVB	359549	441894	4.45%	0.405%
33	18.398	2673	2688	2694	rBV	509042	829705	8.36%	0.761%
34	18.645	2726	2730	2734	rVB	111110	135260	1.36%	0.124%

LSC Area Percent Report

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Data File : BM006505.D
Acq On : 17 Jul 2016 08:08
Operator : UM/SJ
Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 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:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.M
Title : SVOA CALIBRATION

35	18.692	2734	2738	2742	rBV	121910	155267	1.57%	0.142%
36	18.733	2742	2745	2750	rVB	110030	138343	1.39%	0.127%
37	18.815	2753	2759	2764	rBV	295189	557426	5.62%	0.511%
38	18.880	2764	2770	2773	rBV2	199713	327506	3.30%	0.300%
39	18.909	2773	2775	2779	rVB	103508	111565	1.12%	0.102%
40	18.957	2779	2783	2784	rBV2	85126	113663	1.15%	0.104%
41	19.086	2798	2805	2811	rBV	6304402	9919218	100.00%	9.092%
42	19.151	2811	2816	2818	rVV	113200	157032	1.58%	0.144%
43	19.180	2818	2821	2825	rVB2	99574	125655	1.27%	0.115%
44	19.233	2825	2830	2835	rBV	834141	1089263	10.98%	0.998%
45	19.327	2841	2846	2856	rVB3	254227	521925	5.26%	0.478%
46	19.421	2856	2862	2863	rBV2	1565796	2288997	23.08%	2.098%
47	19.451	2863	2867	2875	rVV	5034660	8136457	82.03%	7.458%
48	19.521	2875	2879	2886	rVB3	327541	543347	5.48%	0.498%
49	19.627	2891	2897	2904	rBV	455310	646881	6.52%	0.593%
50	19.774	2915	2922	2929	rBV2	446228	1134467	11.44%	1.040%
51	19.915	2940	2946	2947	rBV2	330995	564124	5.69%	0.517%
52	19.945	2947	2951	2957	rVB	1666323	2347104	23.66%	2.151%
53	20.045	2963	2968	2972	rVV	1779834	2406107	24.26%	2.205%
54	20.104	2972	2978	2982	rVV2	615847	1095088	11.04%	1.004%
55	20.139	2982	2984	2988	rVV2	157815	195878	1.97%	0.180%
56	20.198	2988	2994	2998	rVV2	237671	443043	4.47%	0.406%
57	20.245	2998	3002	3006	rVV	287026	477563	4.81%	0.438%
58	20.292	3006	3010	3019	rVB	425207	763097	7.69%	0.699%
59	20.474	3037	3041	3044	rBV	125510	181641	1.83%	0.166%
60	20.539	3048	3052	3054	rVV2	159556	194846	1.96%	0.179%
61	20.568	3054	3057	3061	rVB	183550	246003	2.48%	0.225%
62	20.651	3067	3071	3076	rBV	272874	500075	5.04%	0.458%
63	20.862	3102	3107	3110	rBV	514901	691275	6.97%	0.634%
64	20.898	3110	3113	3116	rVV	584337	644327	6.50%	0.591%
65	20.939	3116	3120	3124	rVV2	390602	593869	5.99%	0.544%
66	21.098	3140	3147	3156	rBV	243197	594681	6.00%	0.545%
67	21.203	3156	3165	3170	rVV2	4332115	8882310	89.55%	8.142%
68	21.250	3170	3173	3182	rVV	2949133	4162779	41.97%	3.816%
69	21.327	3183	3186	3189	rVV2	109180	167162	1.69%	0.153%
70	21.368	3189	3193	3198	rVV	754072	1036368	10.45%	0.950%
71	21.421	3198	3202	3206	rVV	422636	651108	6.56%	0.597%

LSC Area Percent Report

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Acq On : 17 Jul 2016 08:08
Operator : UM/SJ
Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 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:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.M
Title : SVOA CALIBRATION

72	21.480	3208	3212	3215	rVV	294926	432681	4.36%	0.397%
73	21.521	3215	3219	3225	rVV2	402935	743739	7.50%	0.682%
74	21.574	3225	3228	3231	rVB3	102690	132112	1.33%	0.121%
75	21.662	3239	3243	3246	rBV	90048	131302	1.32%	0.120%
76	21.703	3246	3250	3252	rVV	191514	282156	2.84%	0.259%
77	21.756	3252	3259	3263	rVV	690910	1424409	14.36%	1.306%
78	21.803	3264	3267	3272	rVV2	354348	529955	5.34%	0.486%
79	21.874	3275	3279	3281	rVV2	206014	322137	3.25%	0.295%
80	21.909	3281	3285	3288	rVV2	484694	746601	7.53%	0.684%
81	21.950	3288	3292	3294	rVV2	445385	645666	6.51%	0.592%
82	21.980	3294	3297	3304	rVV2	611498	976388	9.84%	0.895%
83	22.045	3304	3308	3317	rVB4	239933	455690	4.59%	0.418%
84	22.133	3319	3323	3327	rBV2	77203	133170	1.34%	0.122%
85	22.245	3338	3342	3344	rBV3	147981	218403	2.20%	0.200%
86	22.515	3383	3388	3397	rBV3	172302	327823	3.30%	0.300%
87	22.756	3422	3429	3434	rBV	2442260	5898363	59.46%	5.407%
88	22.921	3452	3457	3463	rVB	698855	1141360	11.51%	1.046%
89	23.050	3474	3479	3487	rBV3	166346	507393	5.12%	0.465%
90	23.221	3502	3508	3514	rBV	1416271	2649223	26.71%	2.428%
91	23.315	3518	3524	3532	rVV	2424935	4480442	45.17%	4.107%
92	23.409	3533	3540	3545	rVV	1126248	2339605	23.59%	2.145%
93	23.456	3545	3548	3556	rVB	754422	1341683	13.53%	1.230%
94	23.674	3577	3585	3586	rBV2	177027	376907	3.80%	0.345%
95	24.250	3678	3683	3695	rVB	258921	624655	6.30%	0.573%
96	24.486	3718	3723	3731	rBV3	106254	215067	2.17%	0.197%
97	25.603	3903	3913	3923	rVB2	1091586	3155066	31.81%	2.892%
98	25.850	3950	3955	3963	rVB2	199911	470930	4.75%	0.432%
99	26.274	4018	4027	4044	rVB2	720804	2289459	23.08%	2.099%
100	26.633	4080	4088	4106	rVB	318358	1130392	11.40%	1.036%

Sum of corrected areas: 109097323

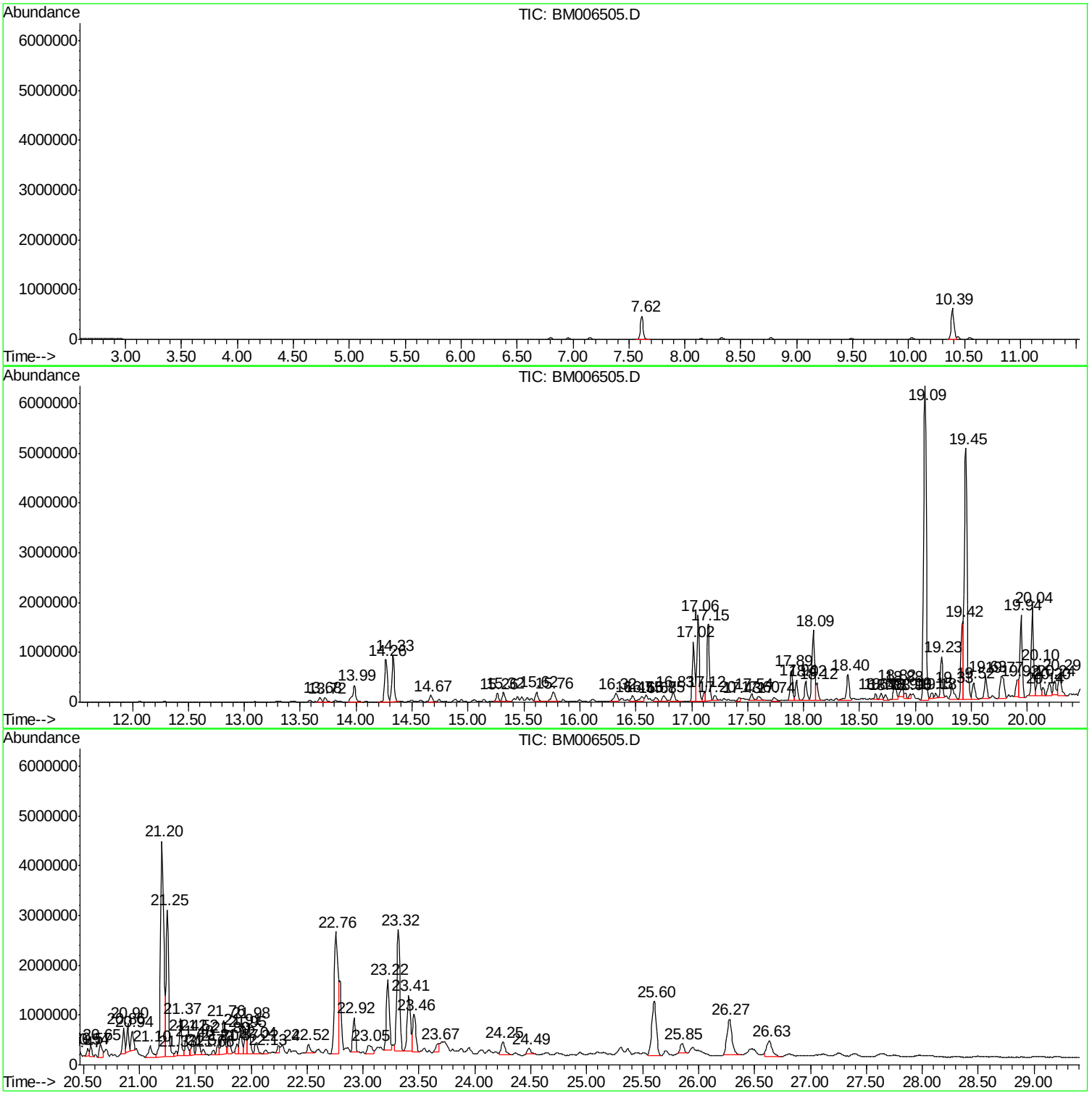
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM071616\
Data File : BM006505.D
Acq On : 17 Jul 2016 08:08
Operator : UM/SJ
Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM071616\
Data File : BM006505.D
Acq On : 17 Jul 2016 08:08
Operator : UM/SJ
Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.M
Quant Title : SVOA CALIBRATION

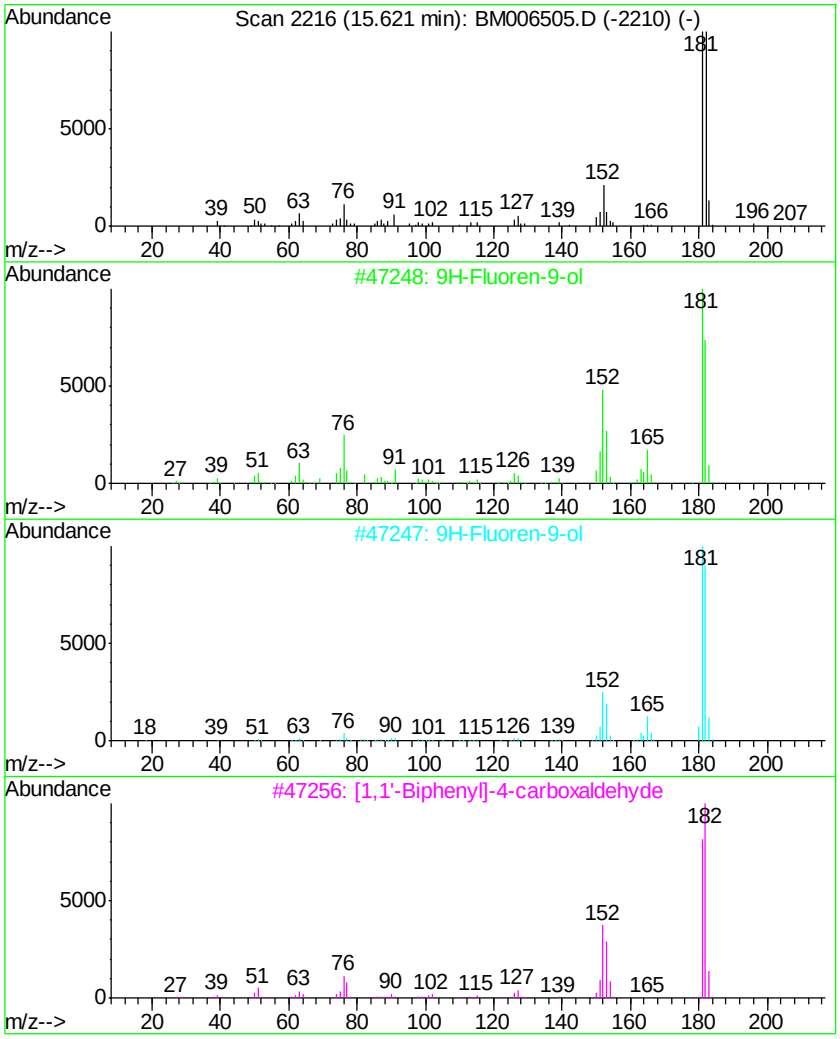
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

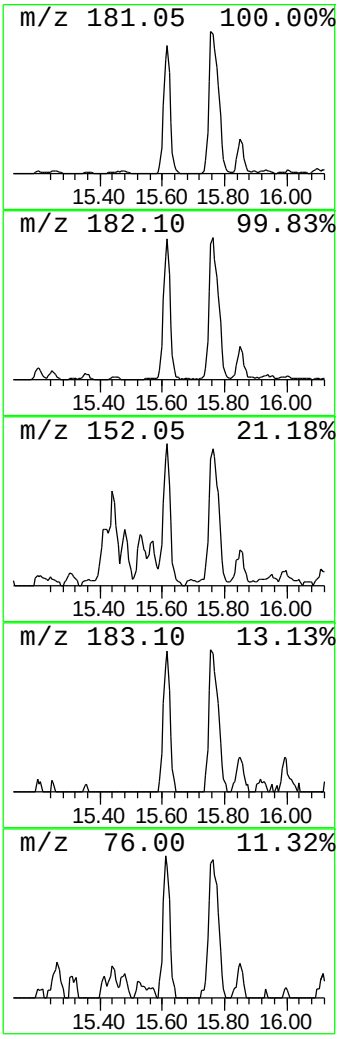
****

Peak Number 1 9H-Fluoren-9-ol Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.62	4.59 ng/ul	326666	Acenaphthene-d10	14.26

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	86
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	86
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	83
4	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	81
5	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	78





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM071616\
Data File : BM006505.D
Acq On : 17 Jul 2016 08:08
Operator : UM/SJ
Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.M
Quant Title : SVOA CALIBRATION

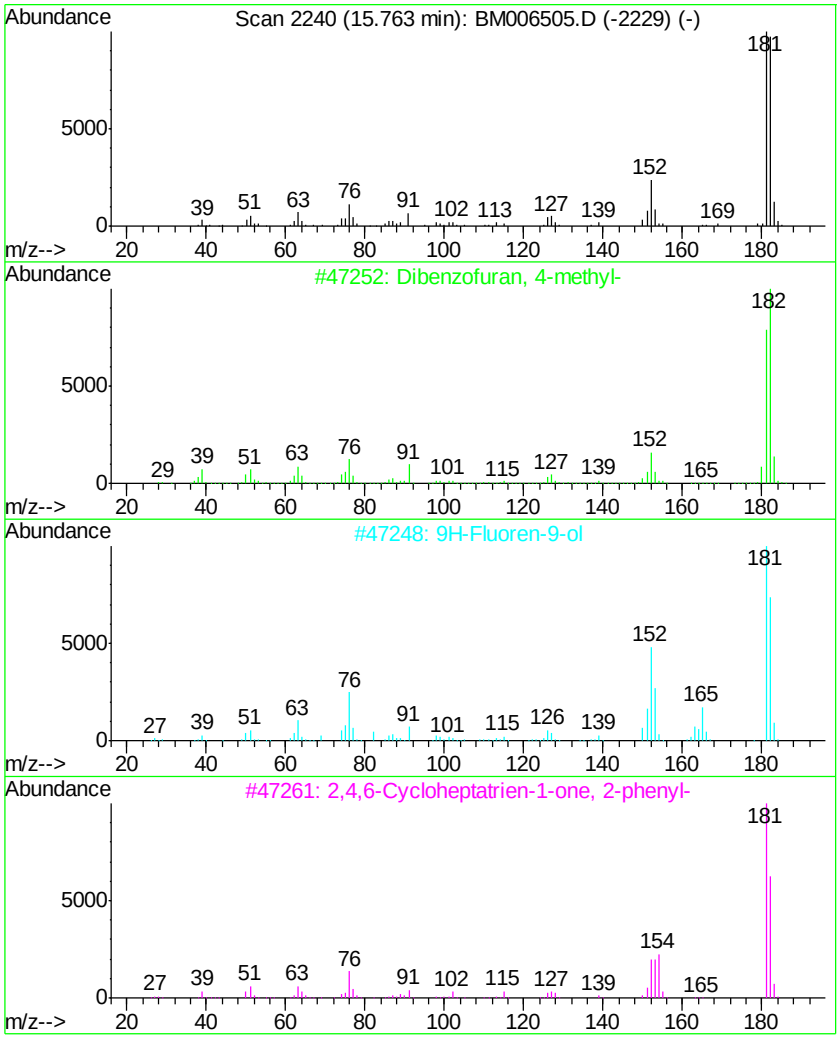
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

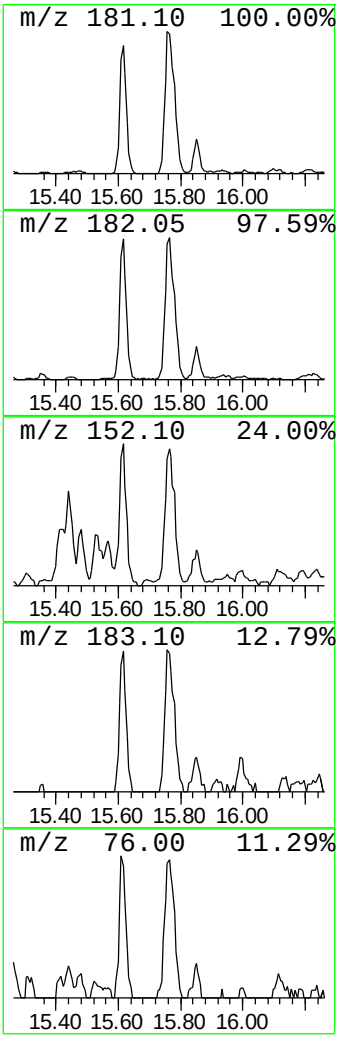
****

Peak Number 2 Dibenzofuran, 4-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.76	5.46 ng/ul	478362	Phenanthrene-d10	17.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	94
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	91
3	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	87
4	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	87
5	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	86





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM071616\
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Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.M
Quant Title : SVOA CALIBRATION

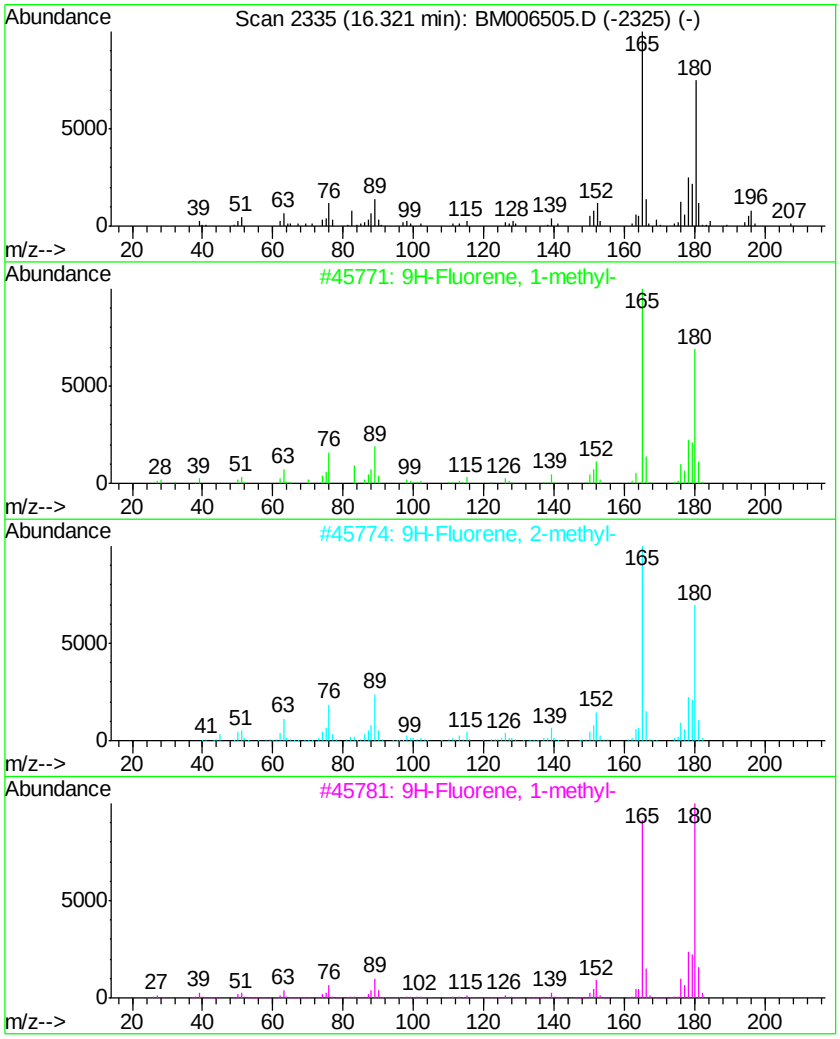
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

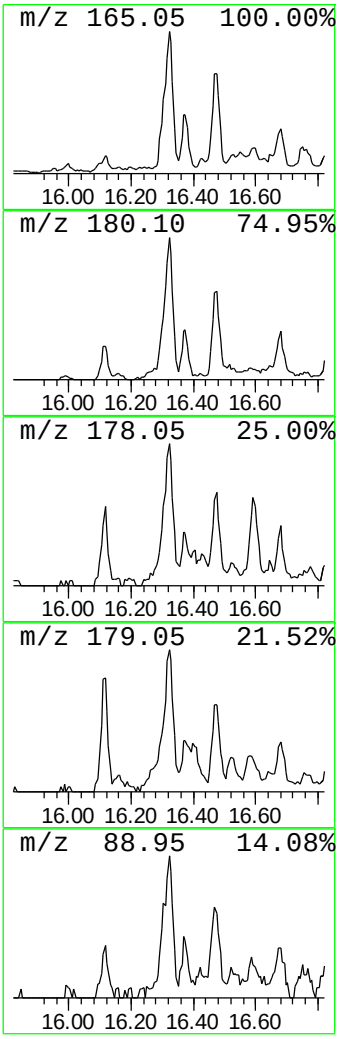
****

Peak Number 3 9H-Fluorene, 1-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.32	4.18 ng/ul	366115	Phenanthrene-d10	17.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	98
2	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	97
3	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	94
4	9H-Fluorene, 3-methyl-	180	C14H12	002523-39-9	93
5	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	93





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM071616\
Data File : BM006505.D
Acq On : 17 Jul 2016 08:08
Operator : UM/SJ
Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.M
Quant Title : SVOA CALIBRATION

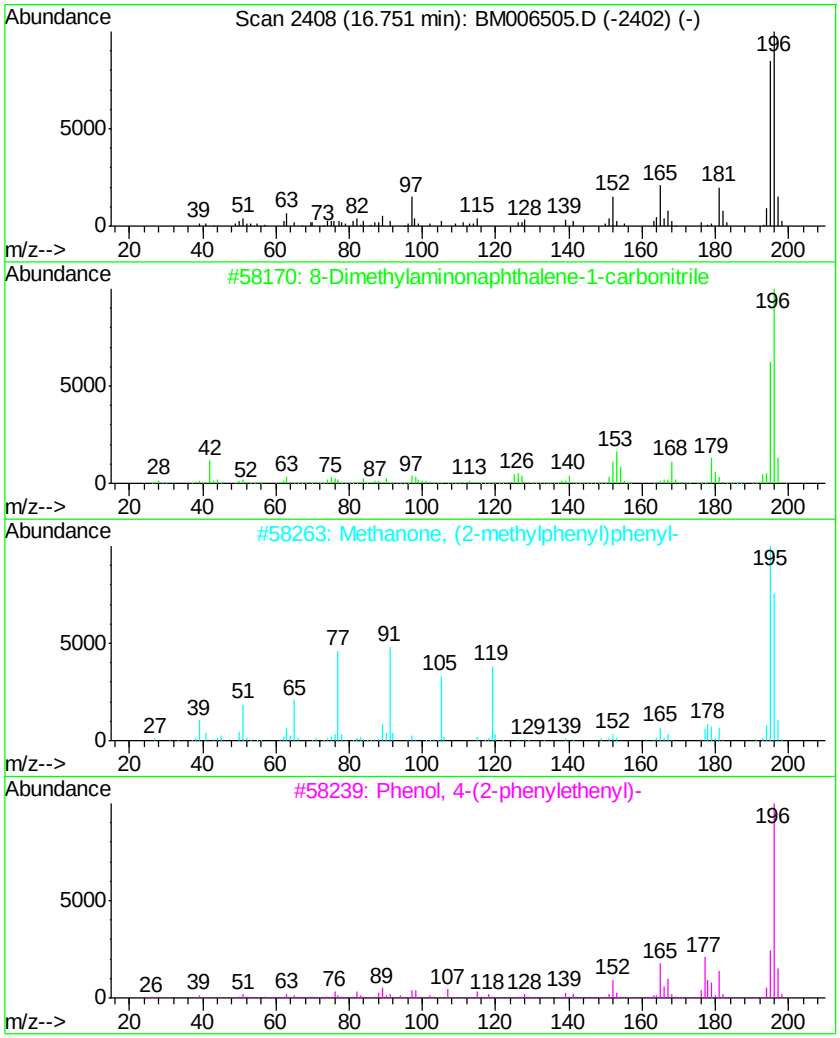
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

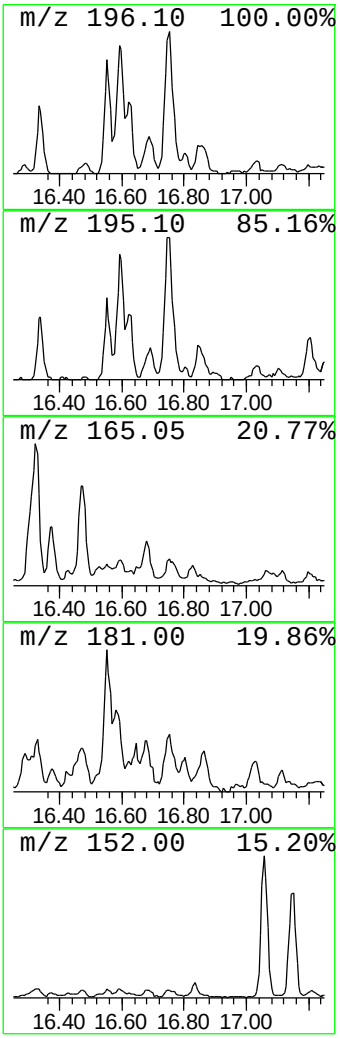
****

Peak Number 4 8-Dimethylaminonaphthalene-... Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.75	2.65 ng/ul	231672	Phenanthrene-d10	17.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	8-Dimethylaminonaphthalene-1-car...	196	C13H12N2	128644-69-9	72
2	Methanone, (2-methylphenyl)phenyl-	196	C14H12O	000131-58-8	64
3	Phenol, 4-(2-phenylethenyl)-	196	C14H12O	003839-46-1	62
4	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	58
5	2,4,6-Trimethoxybenzaldehyde	196	C10H12O4	000830-79-5	53





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM071616\
Data File : BM006505.D
Acq On : 17 Jul 2016 08:08
Operator : UM/SJ
Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.M
Quant Title : SVOA CALIBRATION

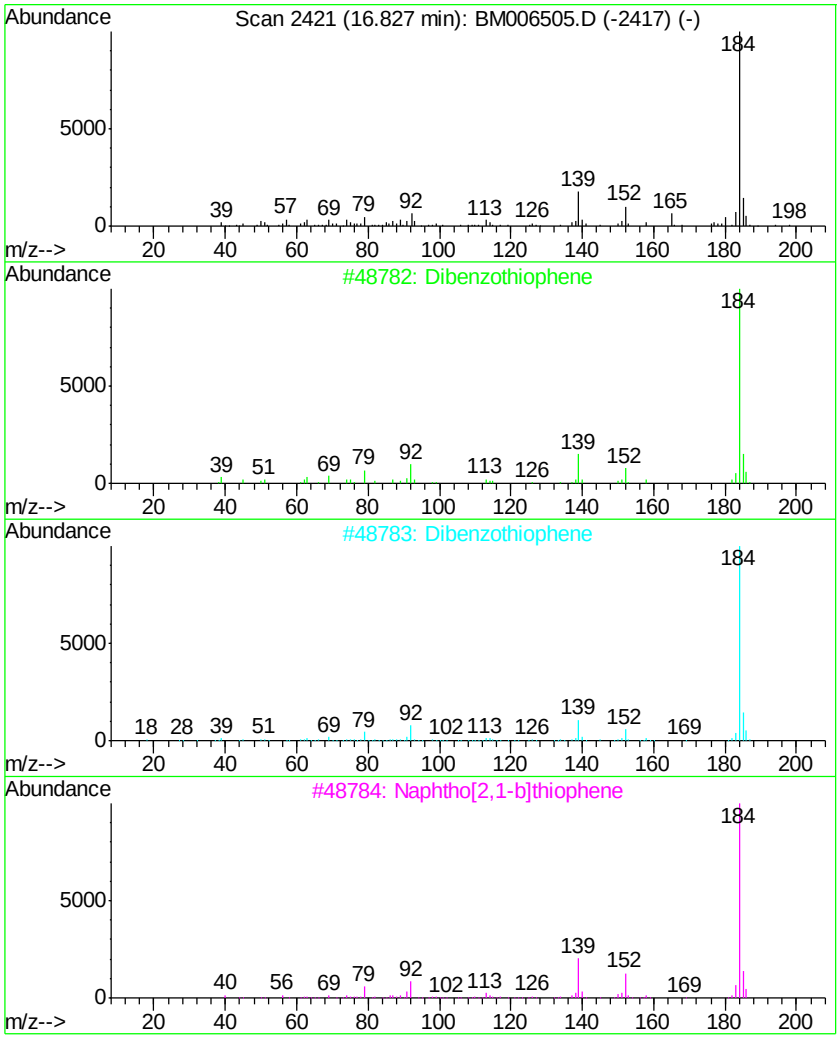
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

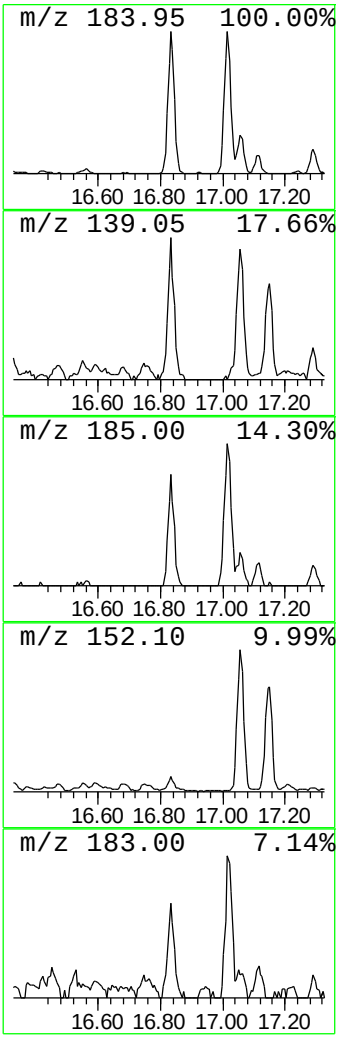
****

Peak Number 5 Dibenzothiophene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.83	4.24 ng/ul	371546	Phenanthrene-d10	17.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Dibenzothiophene	184	C12H8S	000132-65-0	94
3	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	94
4	Dibenzothiophene	184	C12H8S	000132-65-0	93
5	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	93





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Acq On : 17 Jul 2016 08:08
Operator : UM/SJ
Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.M
Quant Title : SVOA CALIBRATION

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

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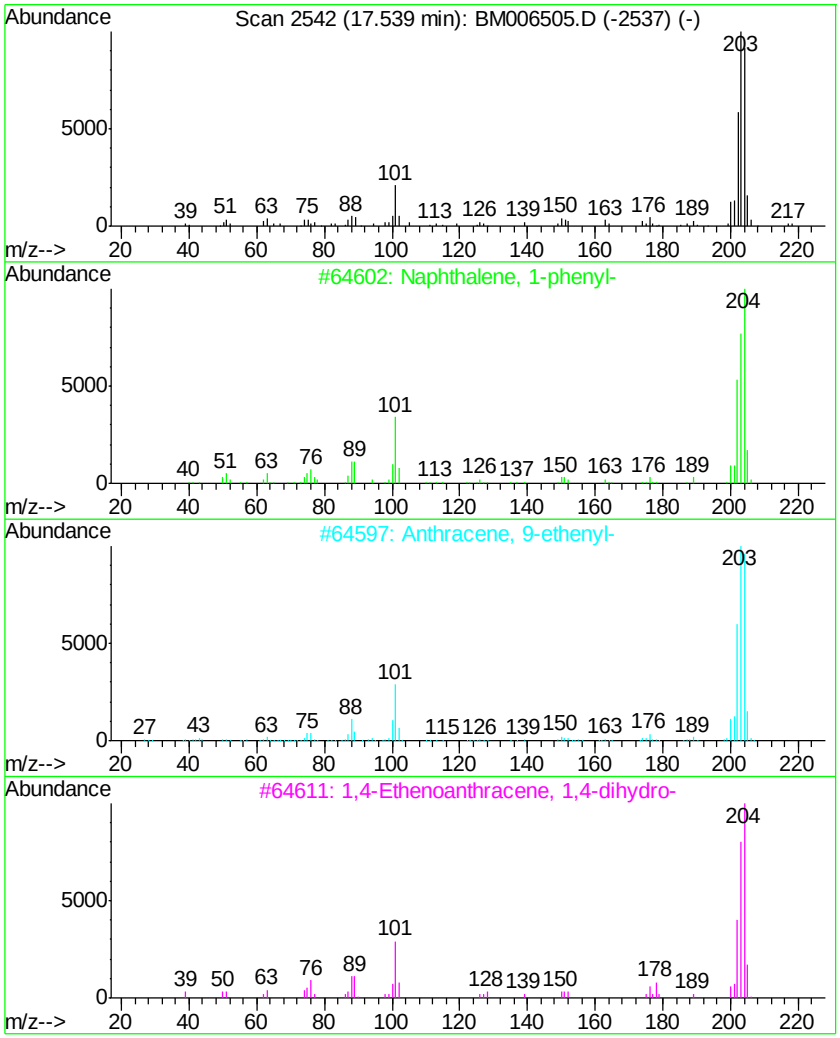
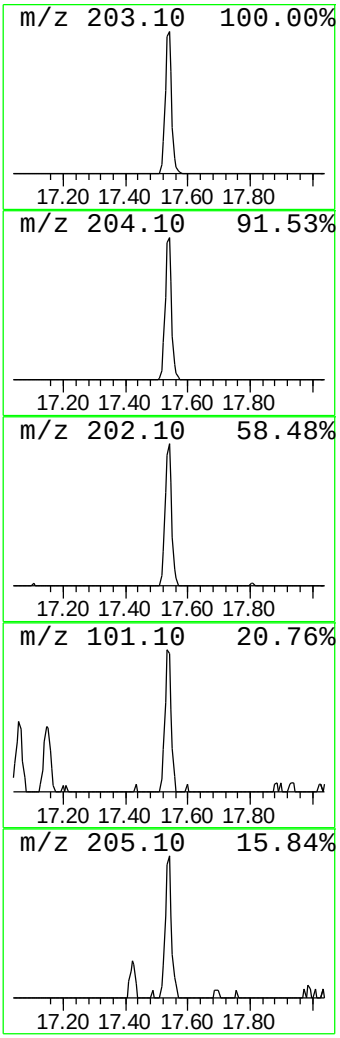
Peak Number 6 Naphthalene, 1-phenyl- Concentration Rank 30

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.54	2.12 ng/ul	185820	Phenanthrene-d10	17.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	92
2	Anthracene, 9-ethenyl-	204	C16H12	002444-68-0	81
3	1,4-Ethenoanthracene, 1,4-dihydro-	204	C16H12	027765-96-4	81
4	Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	81
5	Cyclobuta[1'',2'':3,4:3'',4'':3'...	204	C16H12	006574-36-3	76





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Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.M
Quant Title : SVOA CALIBRATION

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

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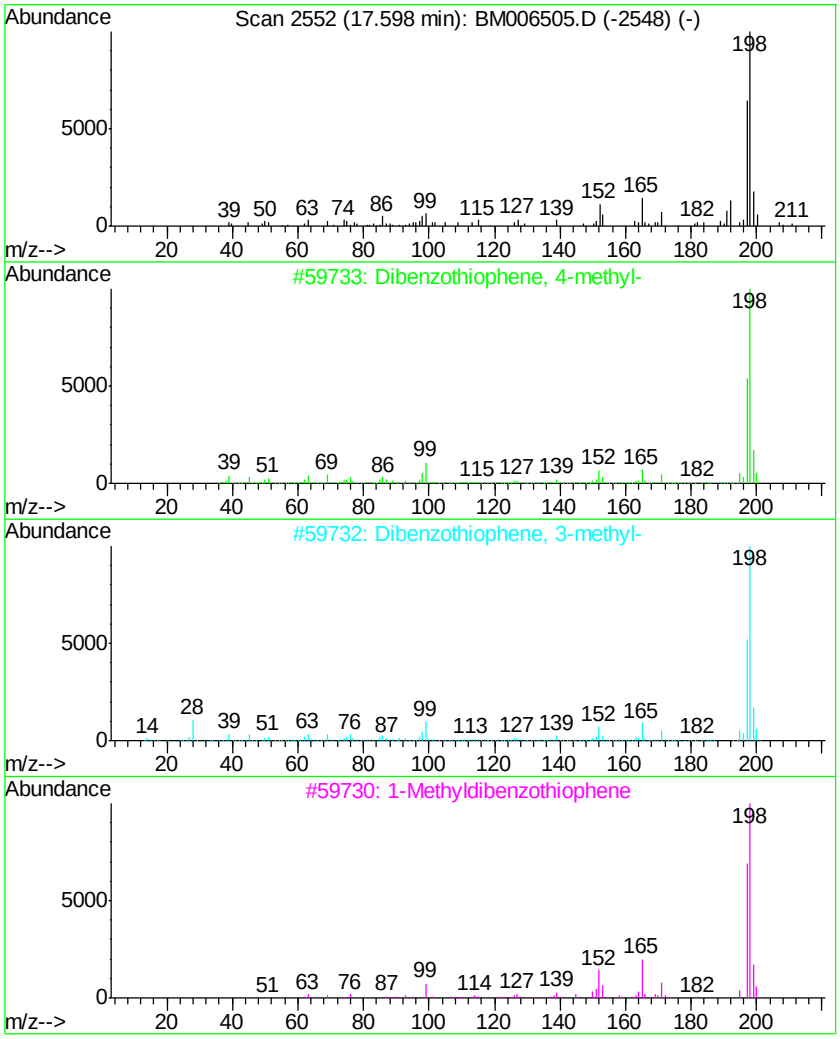
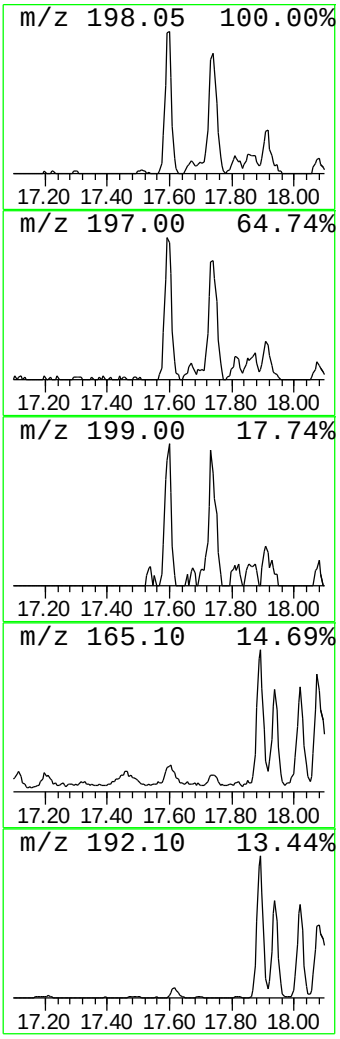
Peak Number 7 Dibenzothiophene, 4-methyl- Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.60	2.18 ng/ul	191120	Phenanthrene-d10	17.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene, 4-methyl-	198	C13H10S	007372-88-5	93
2	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	93
3	1-Methyldibenzothiophene	198	C13H10S	031317-07-4	91
4	4-Methylnaphtho[1,2-b]thiophene	198	C13H10S	067388-11-8	83
5	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	68





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Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

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Quant Title : SVOA CALIBRATION

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

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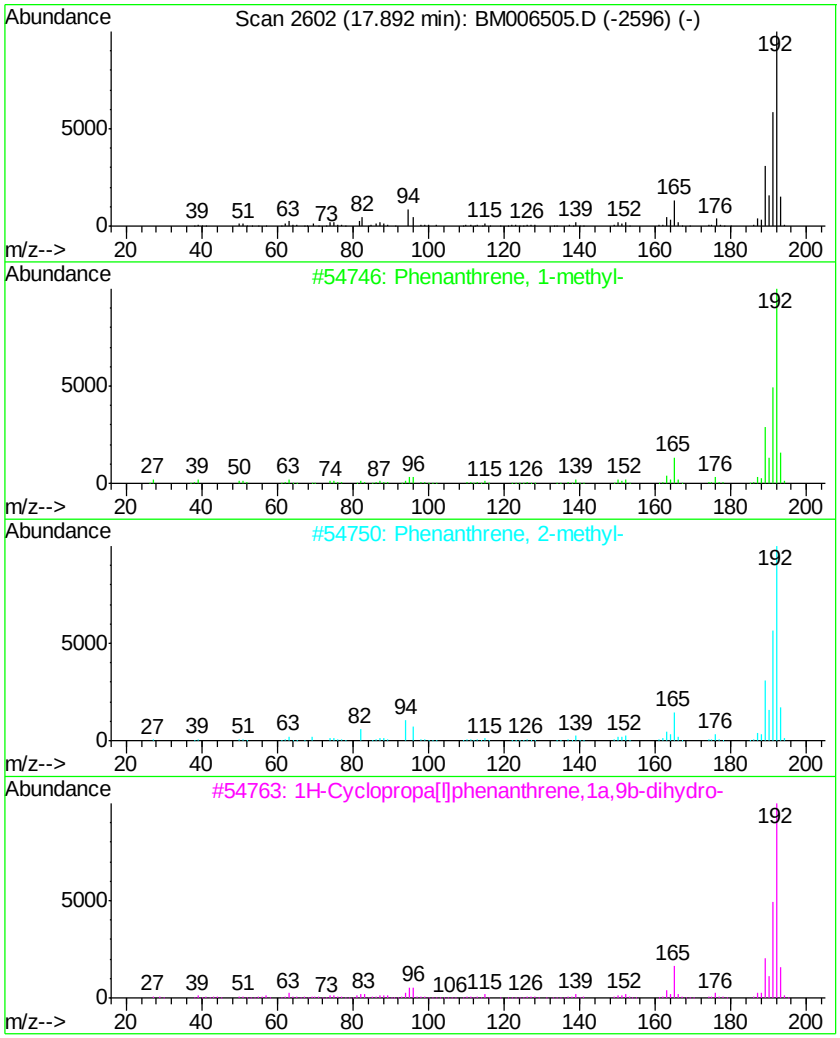
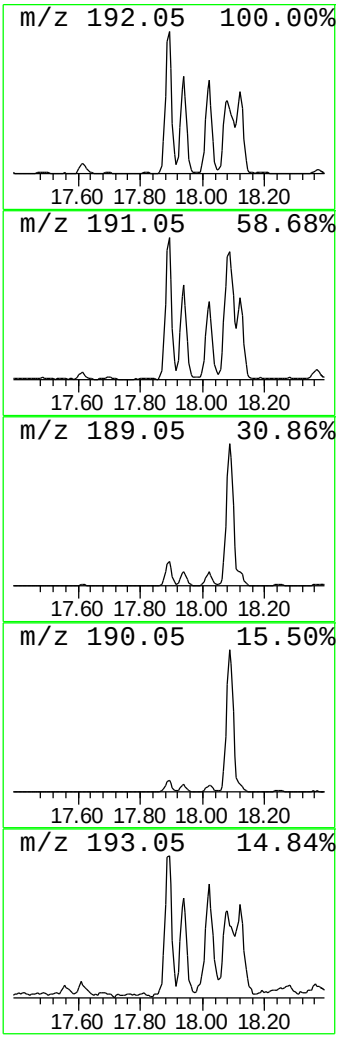
Peak Number 8 Phenanthrene, 1-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.89	10.05 ng/ul	879984	Phenanthrene-d10	17.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	93
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	93





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Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.M
Quant Title : SVOA CALIBRATION

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

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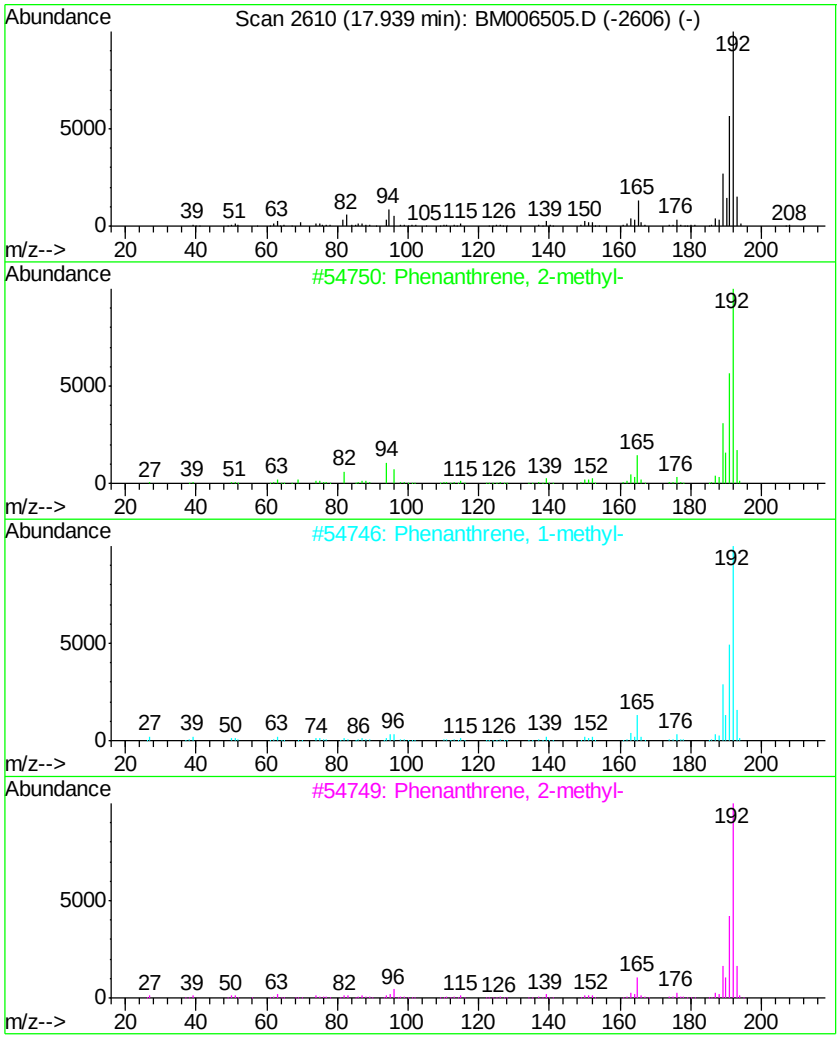
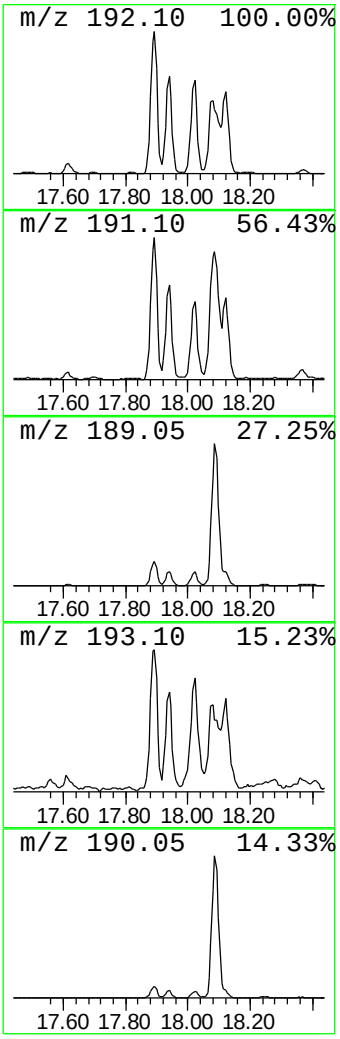
Peak Number 9 Phenanthrene, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.94	6.82 ng/ul	596682	Phenanthrene-d10	17.02

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	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	95





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ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

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Quant Title : SVOA CALIBRATION

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

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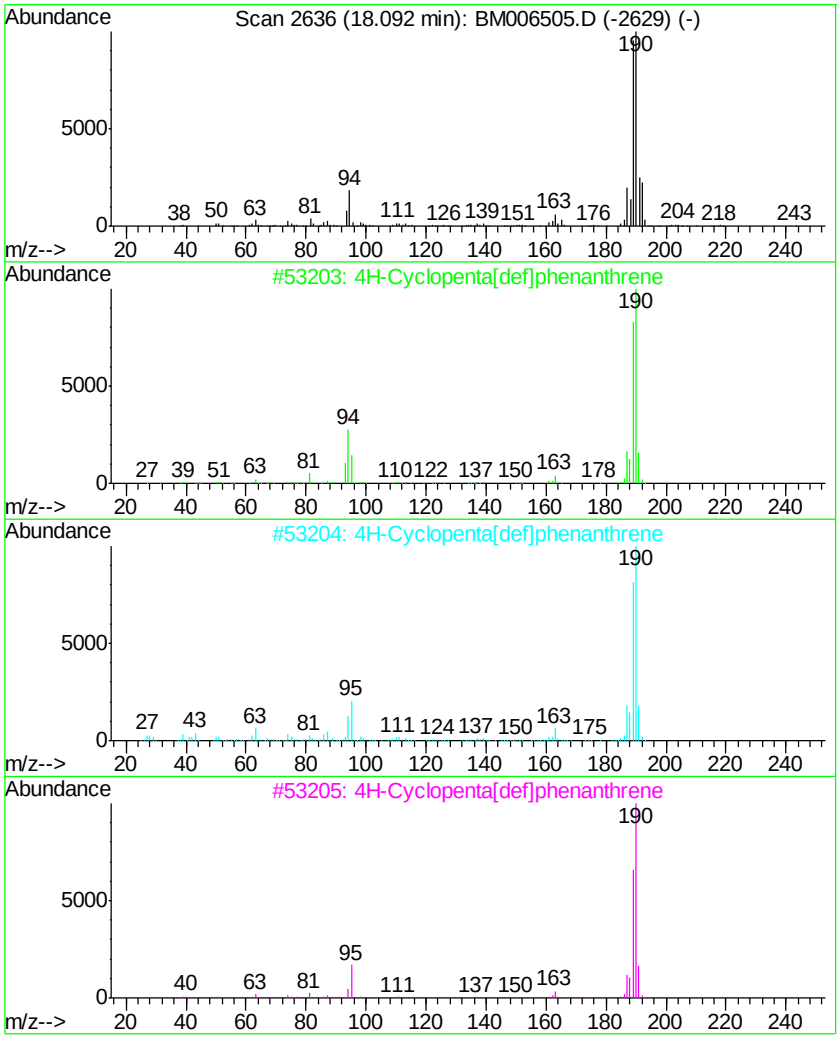
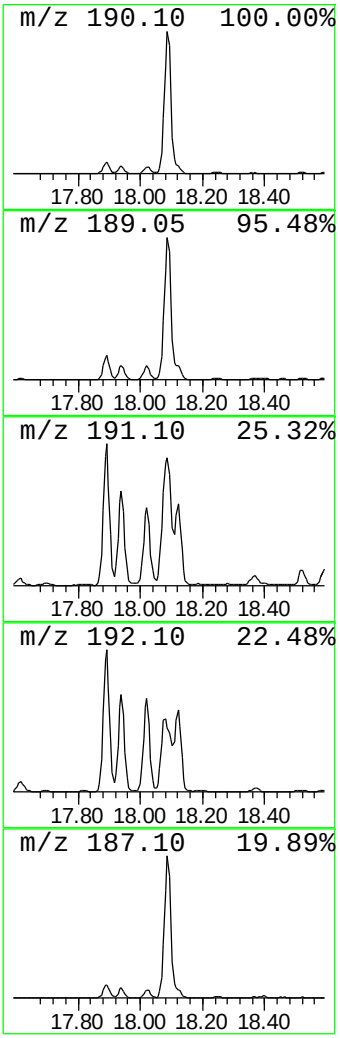
Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.09	27.28 ng/ul	2387990	Phenanthrene-d10	17.02

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	76
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	64
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	64
5	2,3,5,6-Tetramethylterephthalald...	190	C12H14O2	007072-01-7	50





Library Search Compound Report

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Sample : H3959-02 10X
Misc :
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Instrument : BNA_M
ClientSampleId : BDJ21

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Quant Title : SVOA CALIBRATION

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

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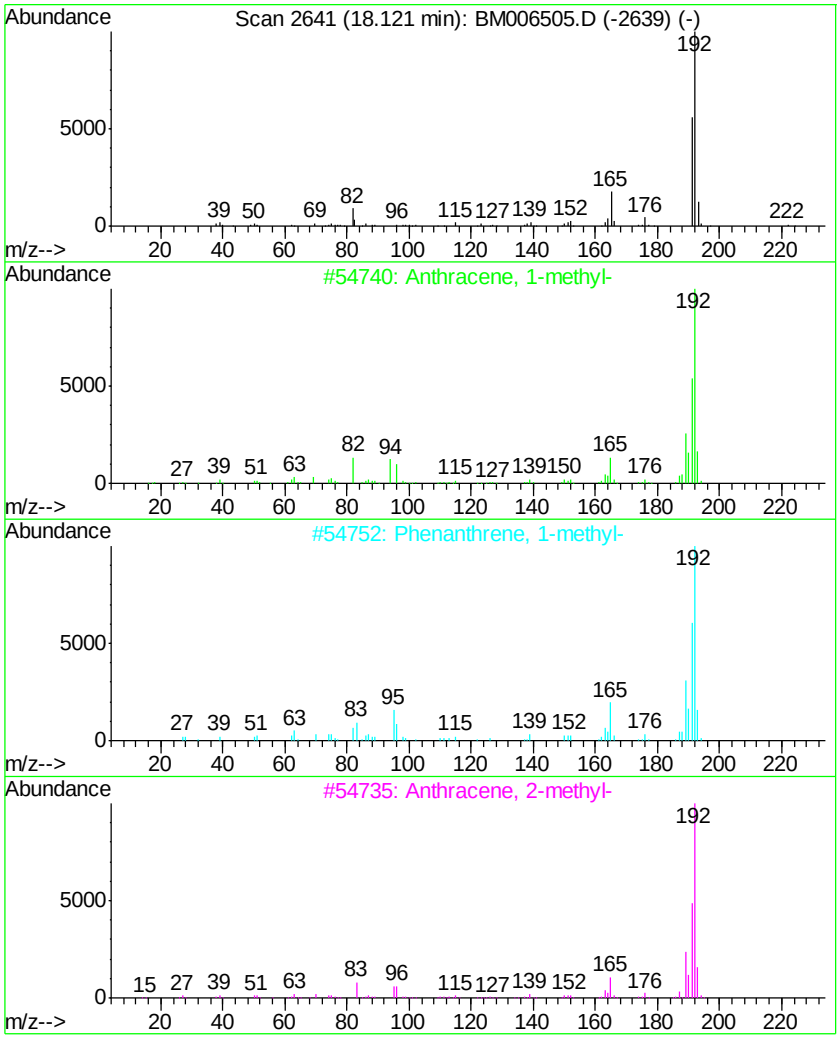
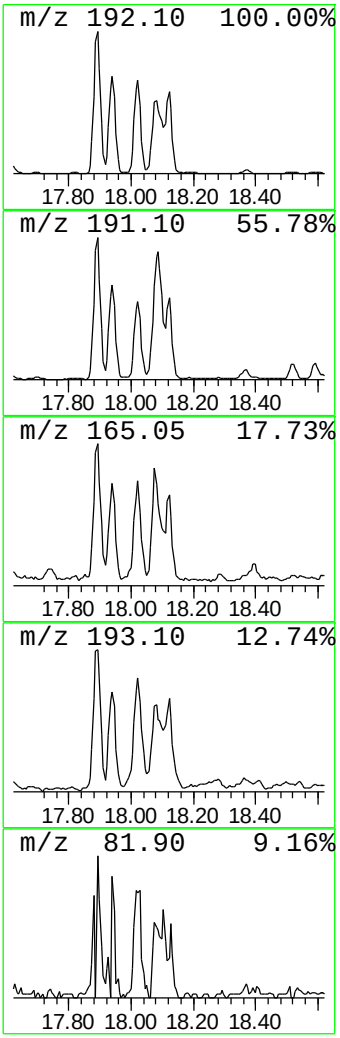
Peak Number 12 Anthracene, 1-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.12	5.05 ng/ul	441894	Phenanthrene-d10	17.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	90
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	90





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Operator : UM/SJ
Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.M
Quant Title : SVOA CALIBRATION

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

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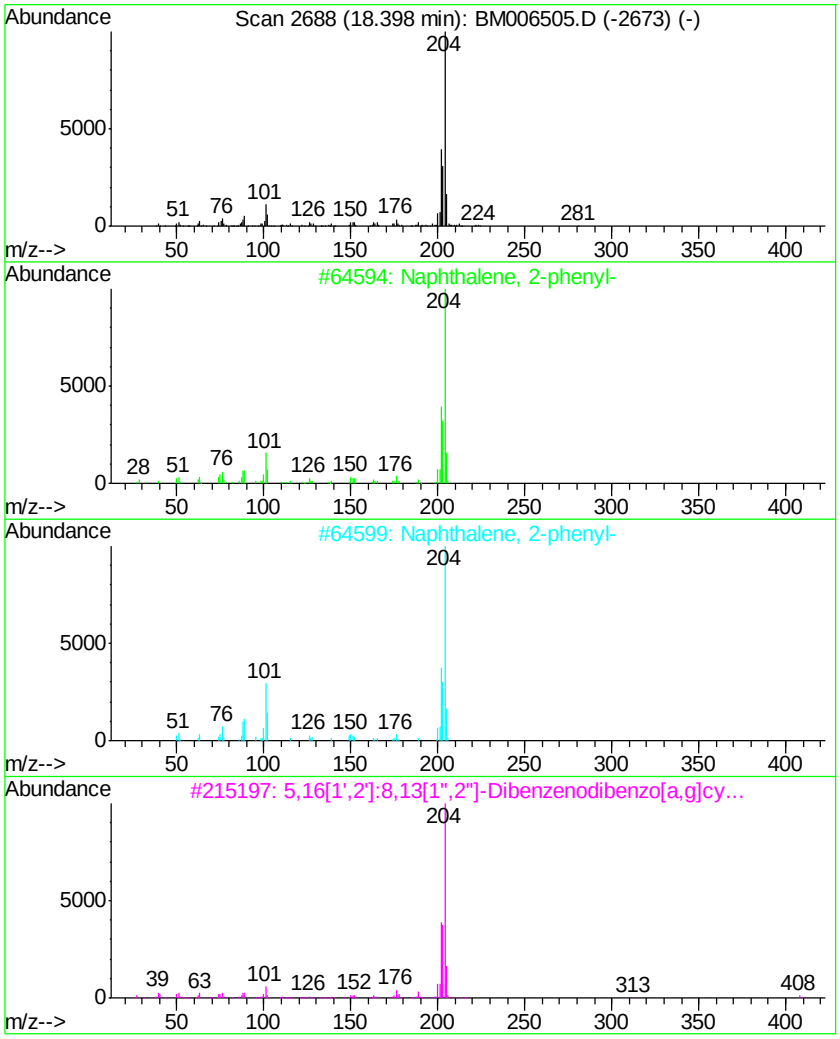
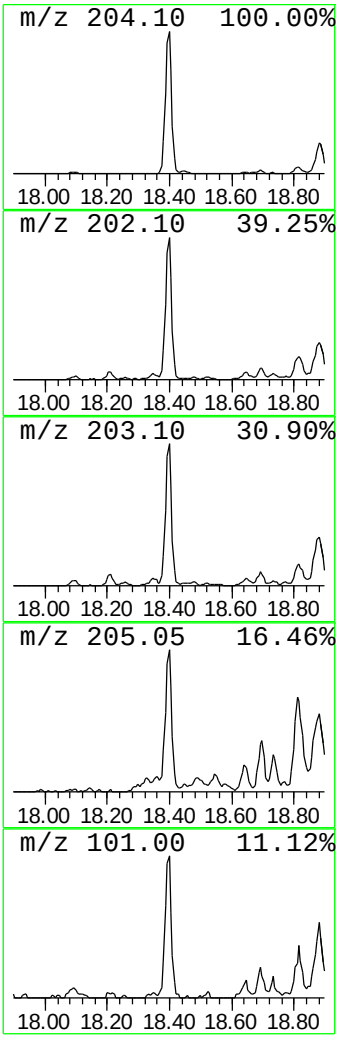
Peak Number 13 Naphthalene, 2-phenyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.40	9.48 ng/ul	829705	Phenanthrene-d10	17.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	96
2	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	93
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	91
4	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	78
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76





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Sample : H3959-02 10X
Misc :
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Instrument : BNA_M
ClientSampleId : BDJ21

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.M
Quant Title : SVOA CALIBRATION

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

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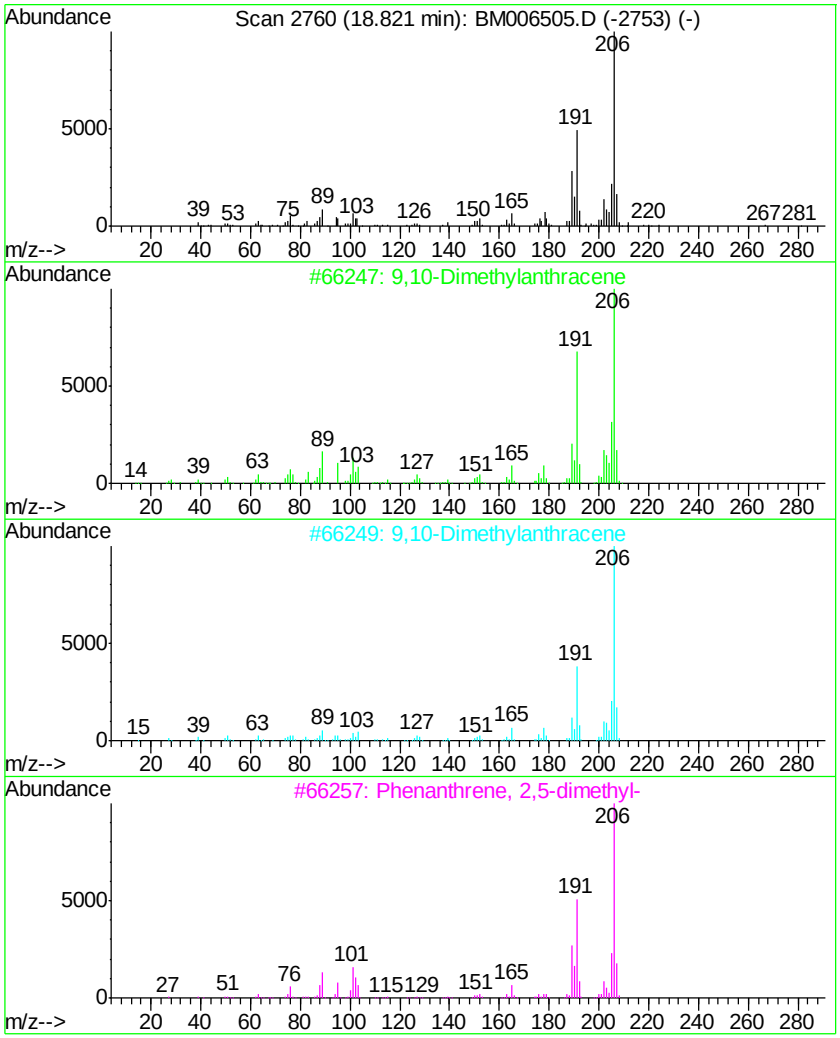
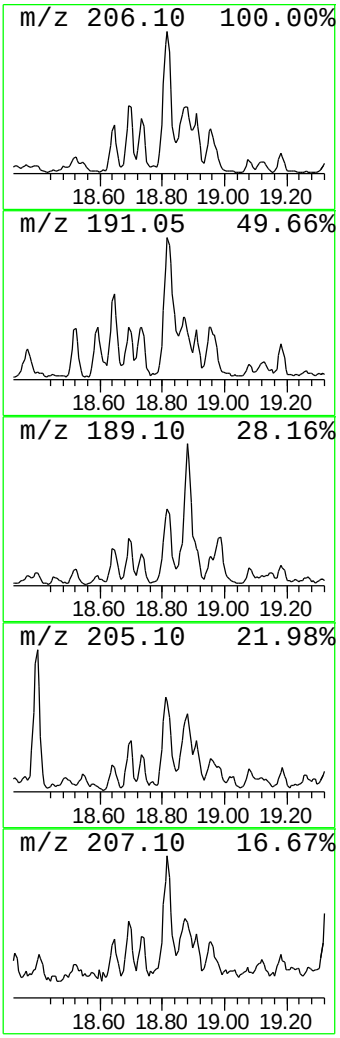
Peak Number 14 9,10-Dimethylanthracene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.82	6.37 ng/ul	557426	Phenanthrene-d10	17.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
3	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
5	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93





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Quant Title : SVOA CALIBRATION

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

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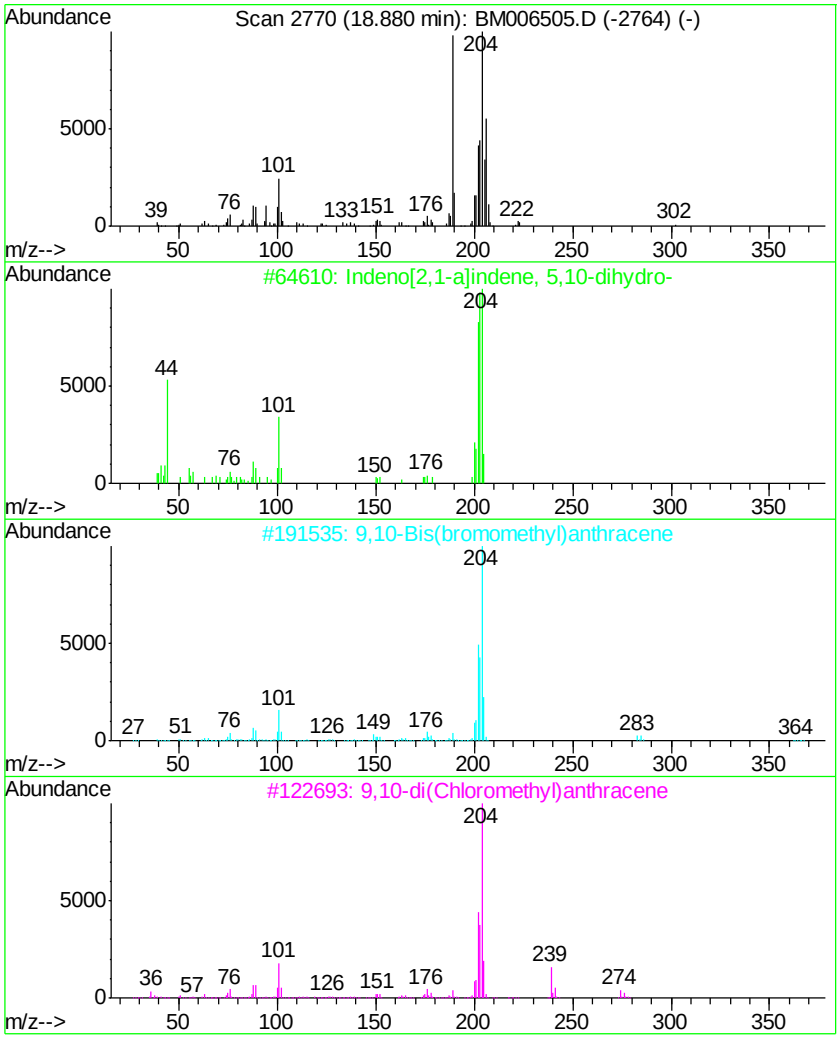
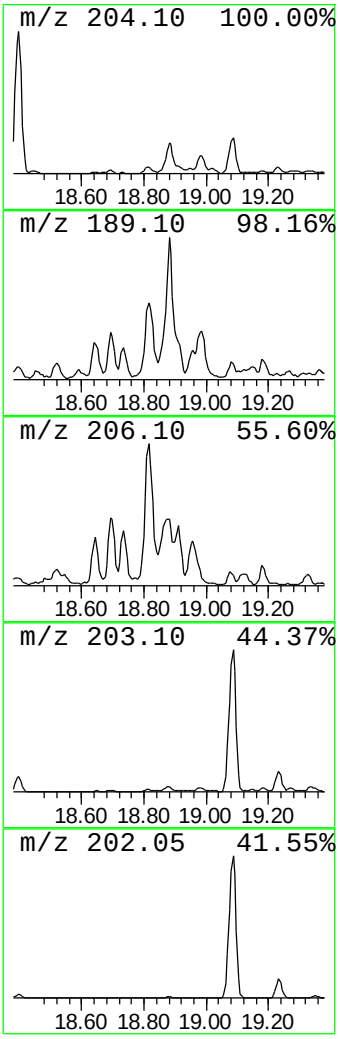
Peak Number 15 unknown-01 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.88	3.74 ng/ul	327506	Phenanthrene-d10	17.02

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	49
2	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	49
3	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	49
4	9,10-di(Chloromethyl)anthracene	274	C16H12Cl2	010387-13-0	47
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	42





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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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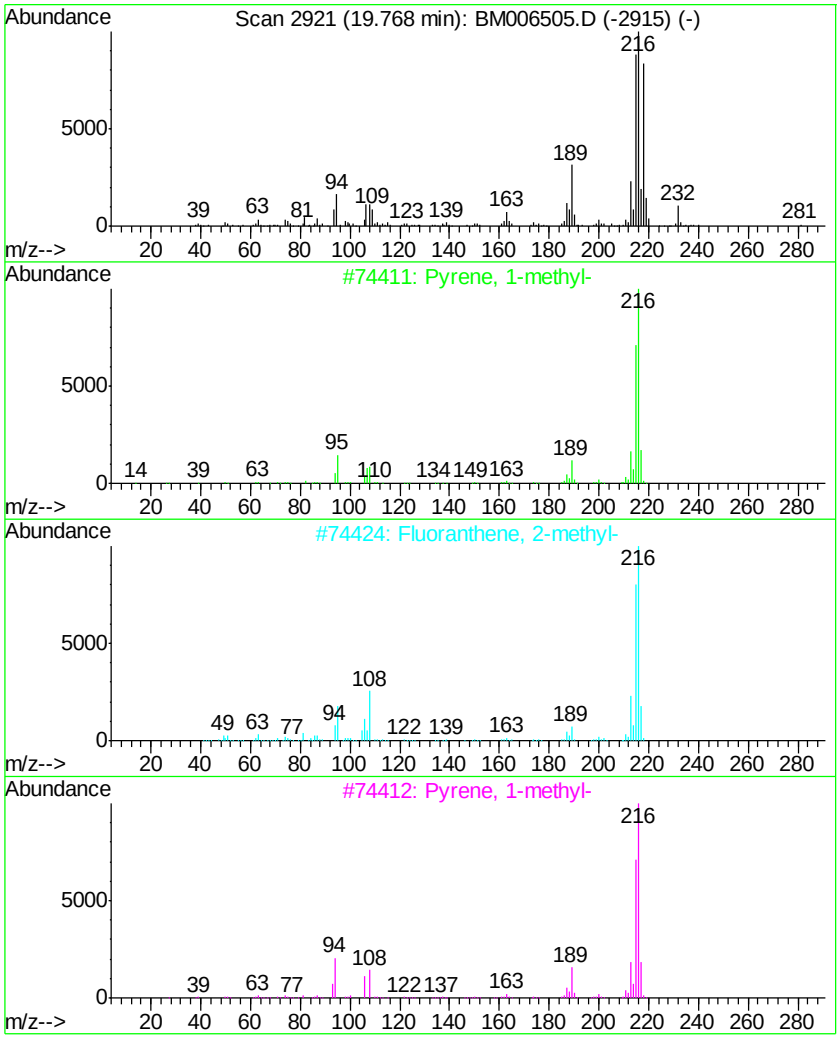
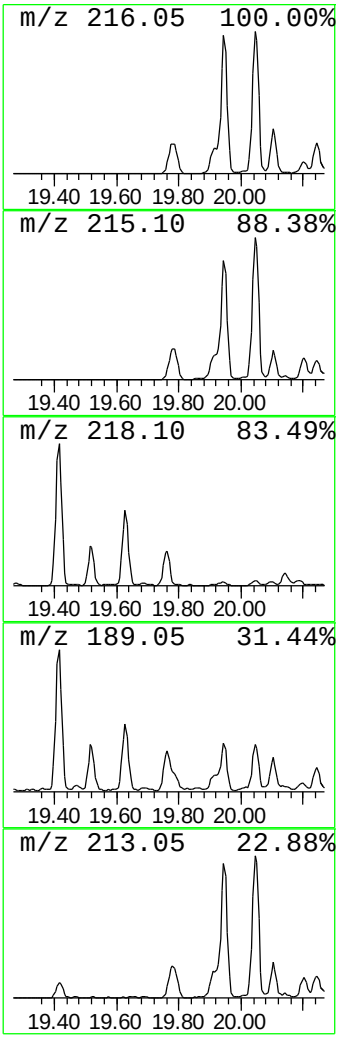
Peak Number 17 Pyrene, 1-methyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.77	2.55 ng/ul	1134470	Chrysene-d12	21.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	94
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	81





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Misc :
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Instrument : BNA_M
ClientSampleId : BDJ21

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Quant Title : SVOA CALIBRATION

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

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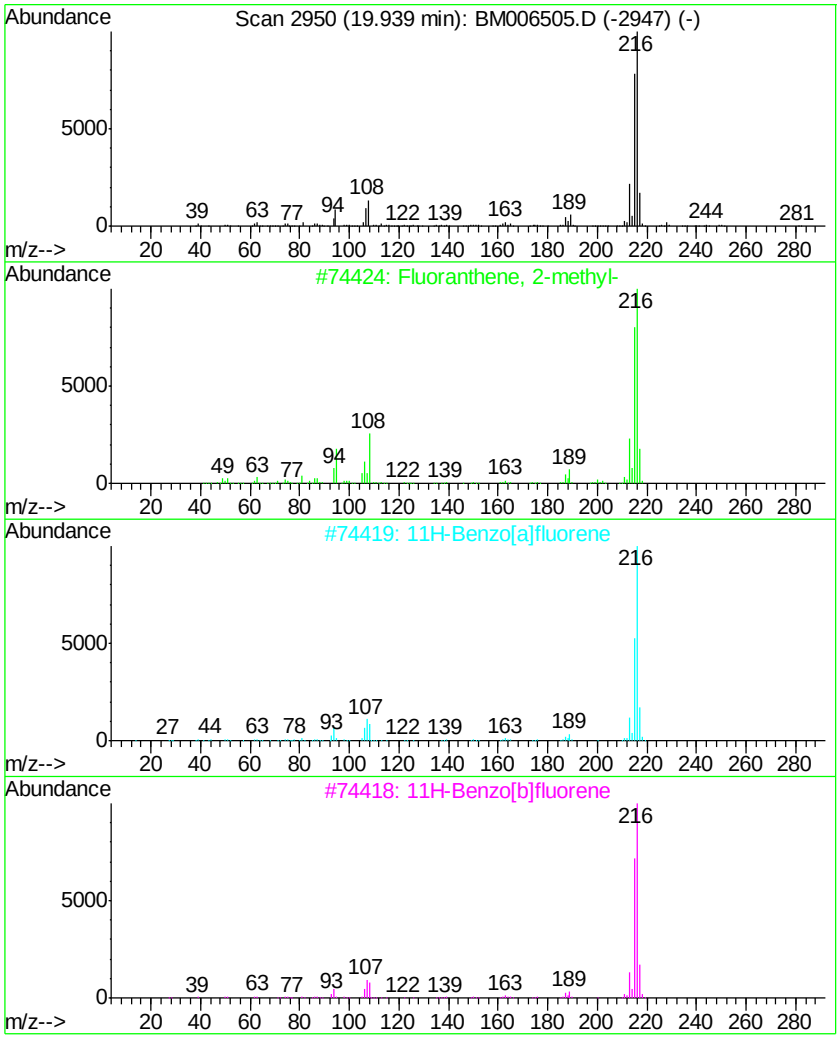
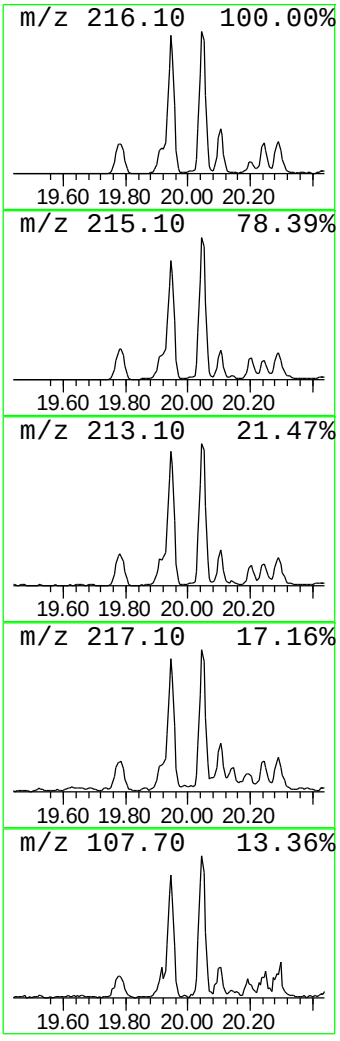
Peak Number 18 Fluoranthene, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.94	5.28 ng/ul	2347100	Chrysene-d12	21.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	94
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	93
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91





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Operator : UM/SJ
Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.M
Quant Title : SVOA CALIBRATION

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

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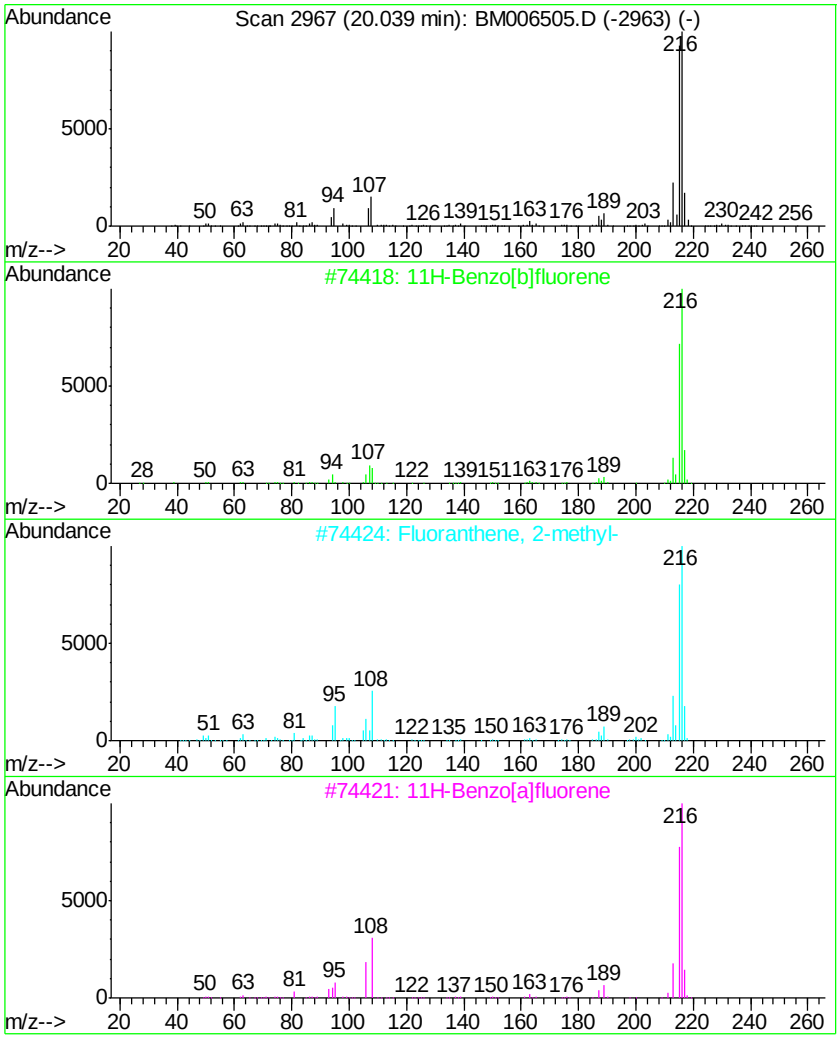
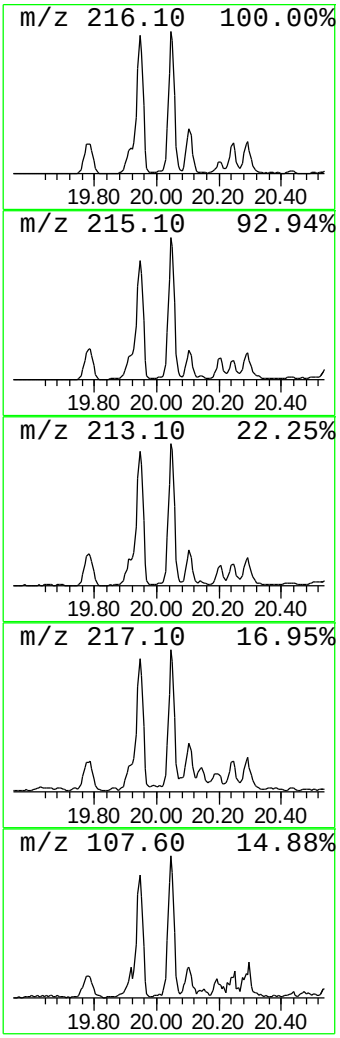
Peak Number 19 11H-Benzo[b]fluorene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.04	5.42 ng/ul	2406110	Chrysene-d12	21.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	96
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87





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Data File : BM006505.D
Acq On : 17 Jul 2016 08:08
Operator : UM/SJ
Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

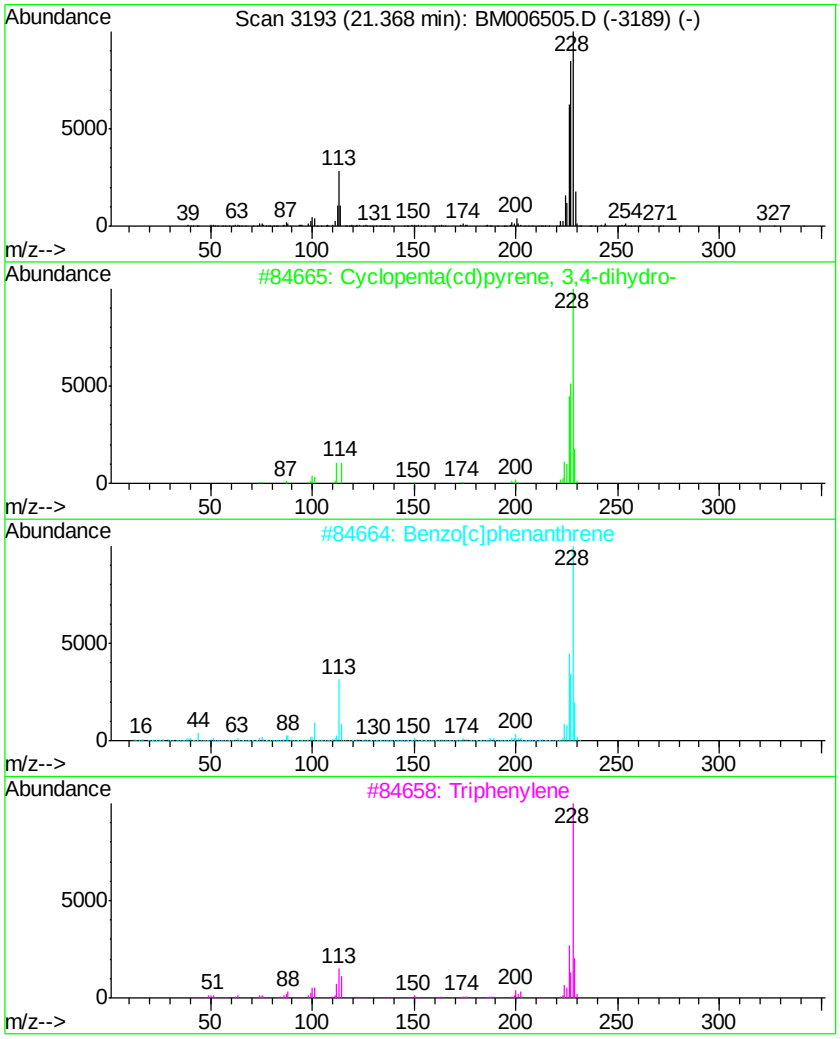
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.M
Quant Title : SVOA CALIBRATION

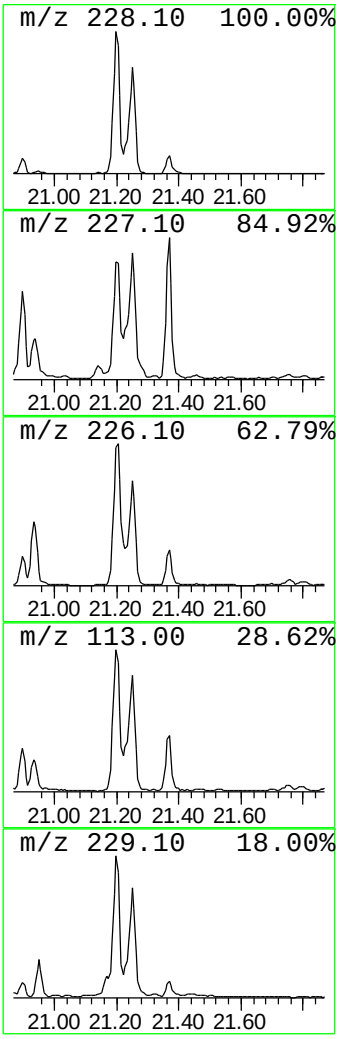
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 21 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.37	2.33 ng/ul	1036370	Chrysene-d12	21.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	95
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	55
3	Triphenylene	228	C18H12	000217-59-4	50
4	Dimethyl-[4-[2-(3-methylisoxazol...	228	C14H16N2O	1000306-39-6	50
5	Isothiazol-5-amine, 4-bromo-3-ch...	226	C4H4BrClN2S	1000272-59-9	47





Library Search Compound Report

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Data File : BM006505.D
Acq On : 17 Jul 2016 08:08
Operator : UM/SJ
Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.M
Quant Title : SVOA CALIBRATION

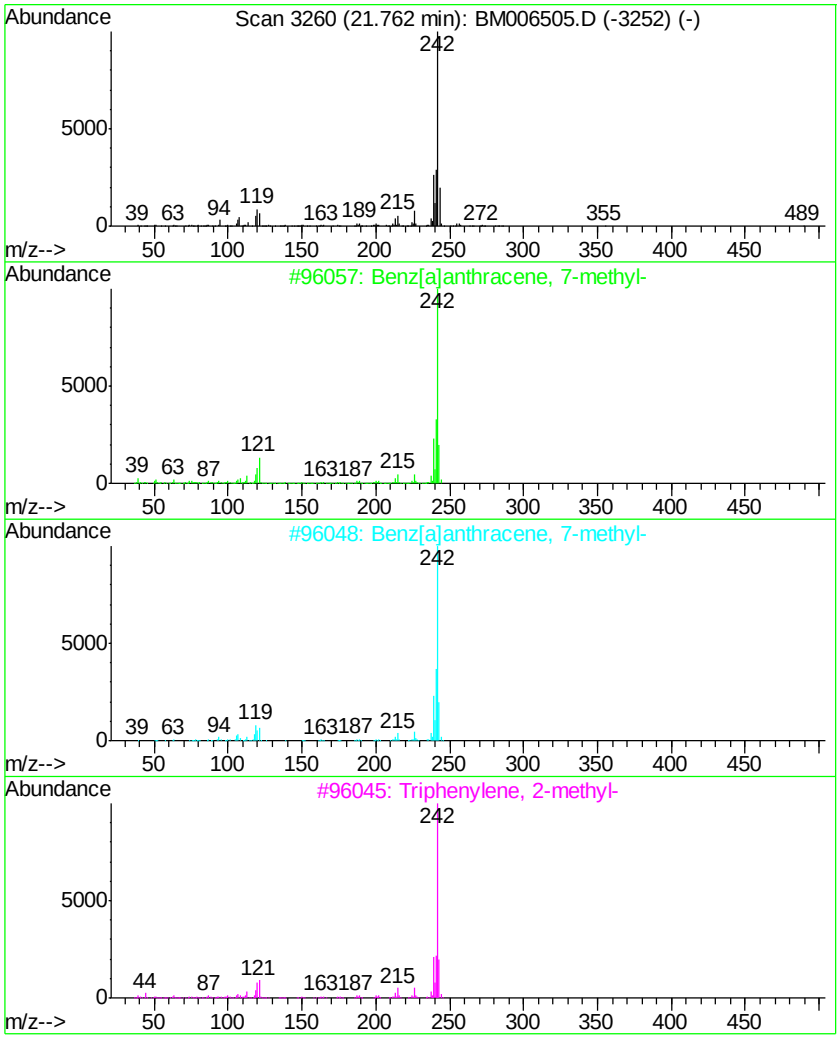
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

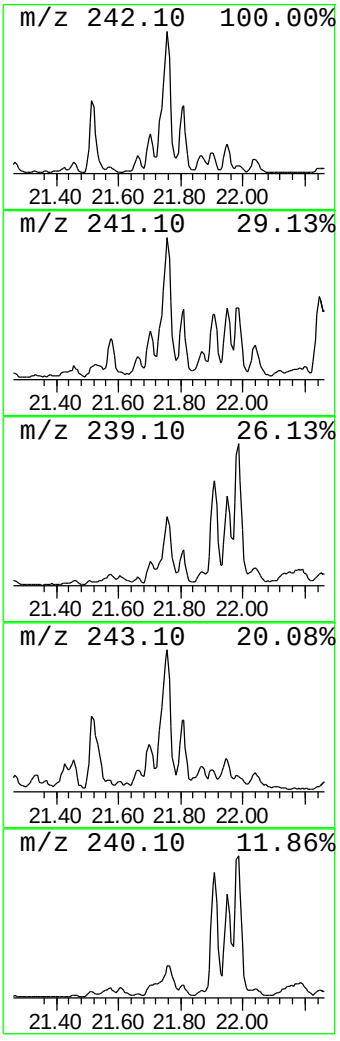
****

Peak Number 22 Benz[a]anthracene, 7-methyl- Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.76	3.21 ng/ul	1424410	Chrysene-d12	21.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	95
2	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	94
3	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	93
4	Benz[a]anthracene, 11-methyl-	242	C19H14	006111-78-0	91
5	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	90





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Acq On : 17 Jul 2016 08:08
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Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.M
Quant Title : SVOA CALIBRATION

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

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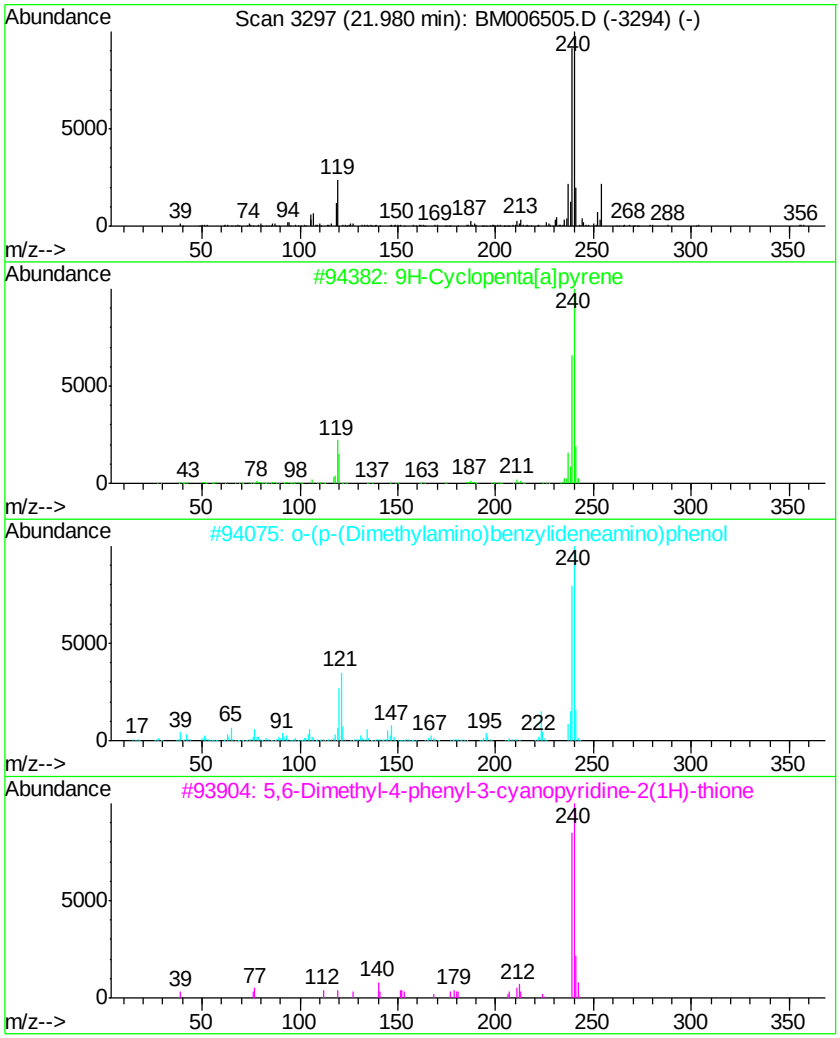
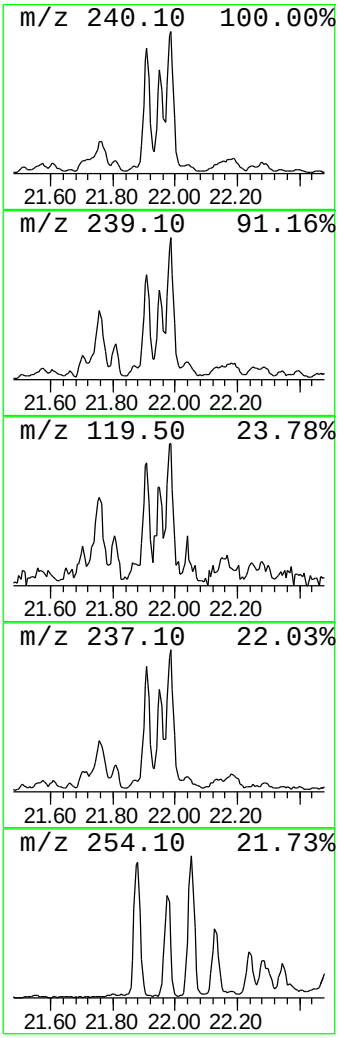
Peak Number 23 9H-Cyclopenta[a]pyrene Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.98	2.20 ng/ul	976388	Chrysene-d12	21.22

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Cyclopenta[a]pyrene	240	C19H12	050861-05-7	95
2	o-(p-(Dimethylamino)benzylidenea...	240	C15H16N2O	023837-35-6	58
3	5,6-Dimethyl-4-phenyl-3-cyanopyr...	240	C14H12N2S	094639-18-6	53
4	5-Methyl-4-(1-naphthyl)-2-thiazo...	240	C14H12N2S	107411-05-2	53
5	2-Propen-1-one, 1-(2-hydroxyphen...	240	C15H12O3	013323-66-5	42





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Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.M
Quant Title : SVOA CALIBRATION

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

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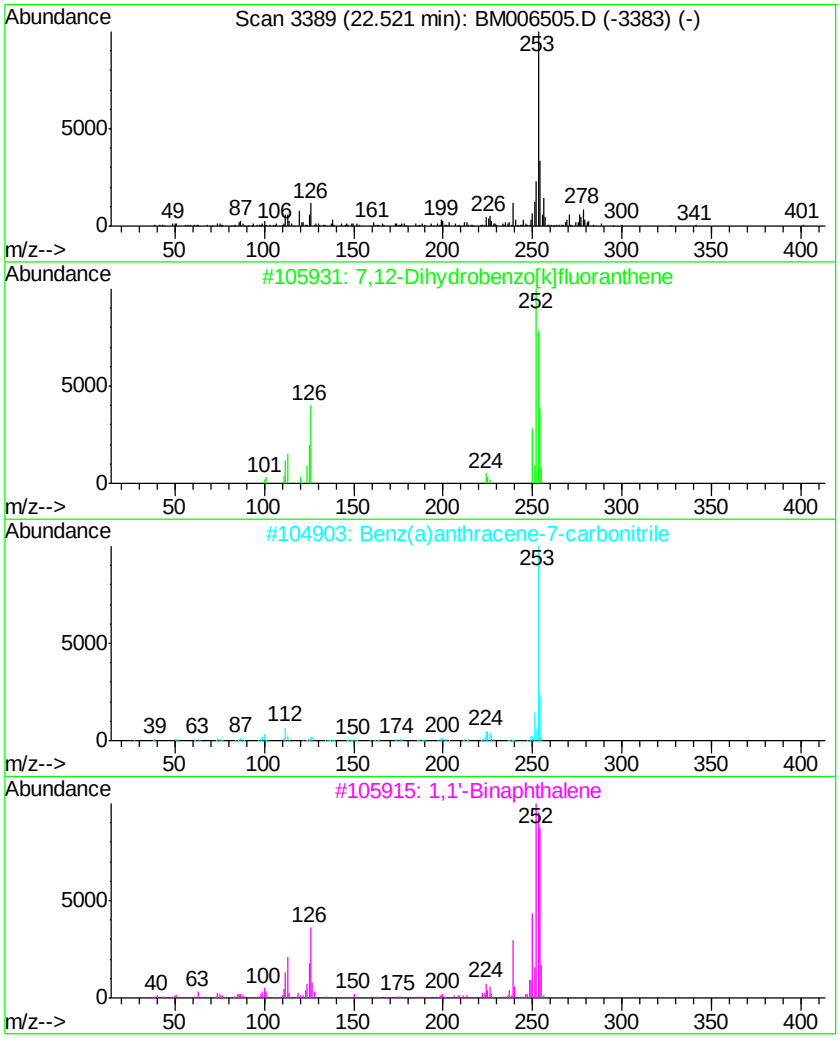
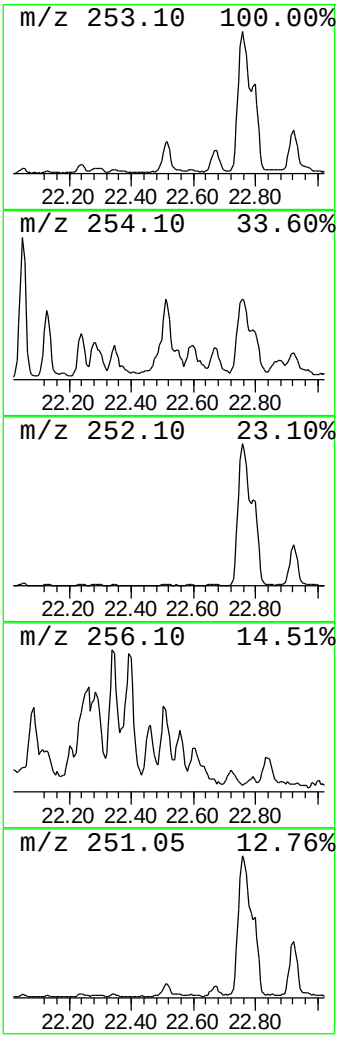
Peak Number 24 7,12-Dihydrobenzo[k]fluoran... Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.52	2.80 ng/ul	327823	Perylene-d12	23.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7,12-Dihydrobenzo[k]fluoranthene	254	C20H14	1000080-17-7	62
2	Benz(a)anthracene-7-carbonitrile	253	C19H11N	007476-08-6	55
3	1,1'-Binaphthalene	254	C20H14	000604-53-5	46
4	Plumbane, trimethyl(1-methylprop...	310	C7H18Pb	054964-76-0	43
5	Butan-1-one, 1-(2,3-dihydro-7,8-...	296	C12H12N2O7	1000273-76-9	40





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Acq On : 17 Jul 2016 08:08
Operator : UM/SJ
Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.M
Quant Title : SVOA CALIBRATION

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

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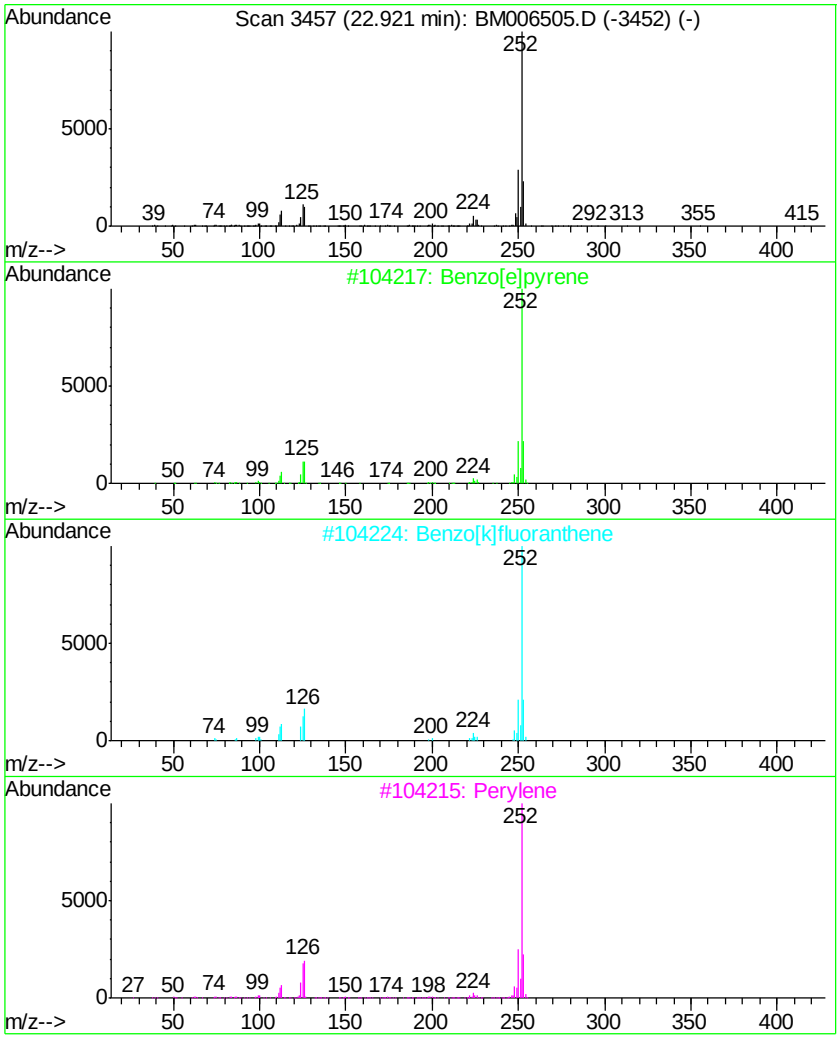
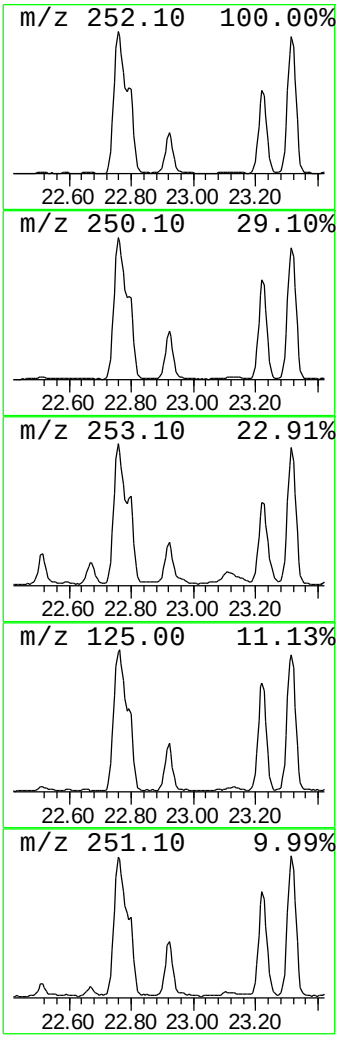
Peak Number 25 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.92	9.76 ng/ul	1141360	Perylene-d12	23.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	97
2	Benzo[k]fluoranthene	252	C20H12	000207-08-9	96
3	Perylene	252	C20H12	000198-55-0	93
4	Benzo[a]pyrene	252	C20H12	000050-32-8	93
5	Benz[e]acephenanthrylene	252	C20H12	000205-99-2	90





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Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.M
Quant Title : SVOA CALIBRATION

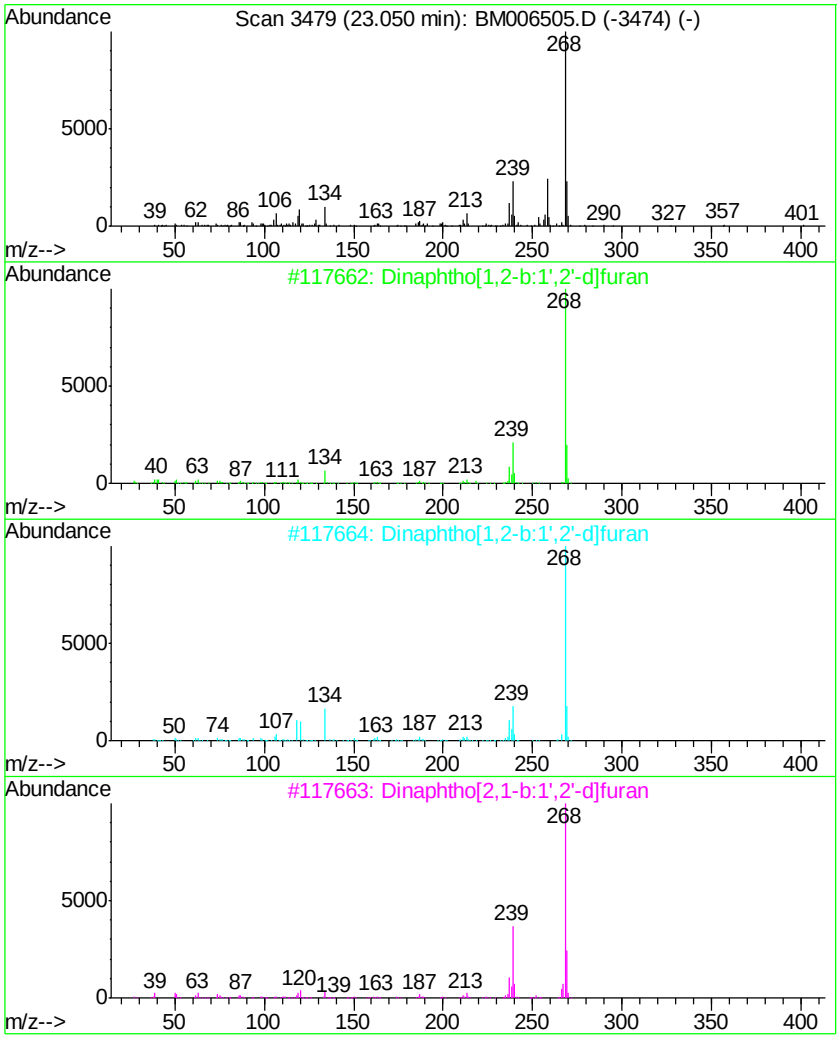
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

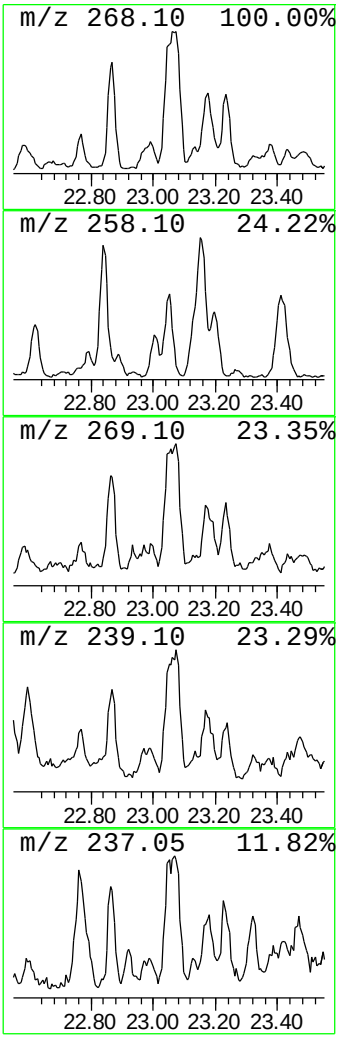
****

Peak Number 26 Dinaphtho[1,2-b:1',2'-d]furan Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.05	4.34 ng/ul	507393	Perylene-d12	23.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	93
2	Dinaphtho[1,2-b:1',2'-d]furan	268	C20H12O	000207-93-2	76
3	Dinaphtho[2,1-b:1',2'-d]furan	268	C20H12O	000194-63-8	72
4	Benzo(a)pyrene 4,5-oxide	268	C20H12O	037574-47-3	64
5	Benzo(a)pyren-7-ol	268	C20H12O	037994-82-4	58





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Acq On : 17 Jul 2016 08:08
Operator : UM/SJ
Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.M
Quant Title : SVOA CALIBRATION

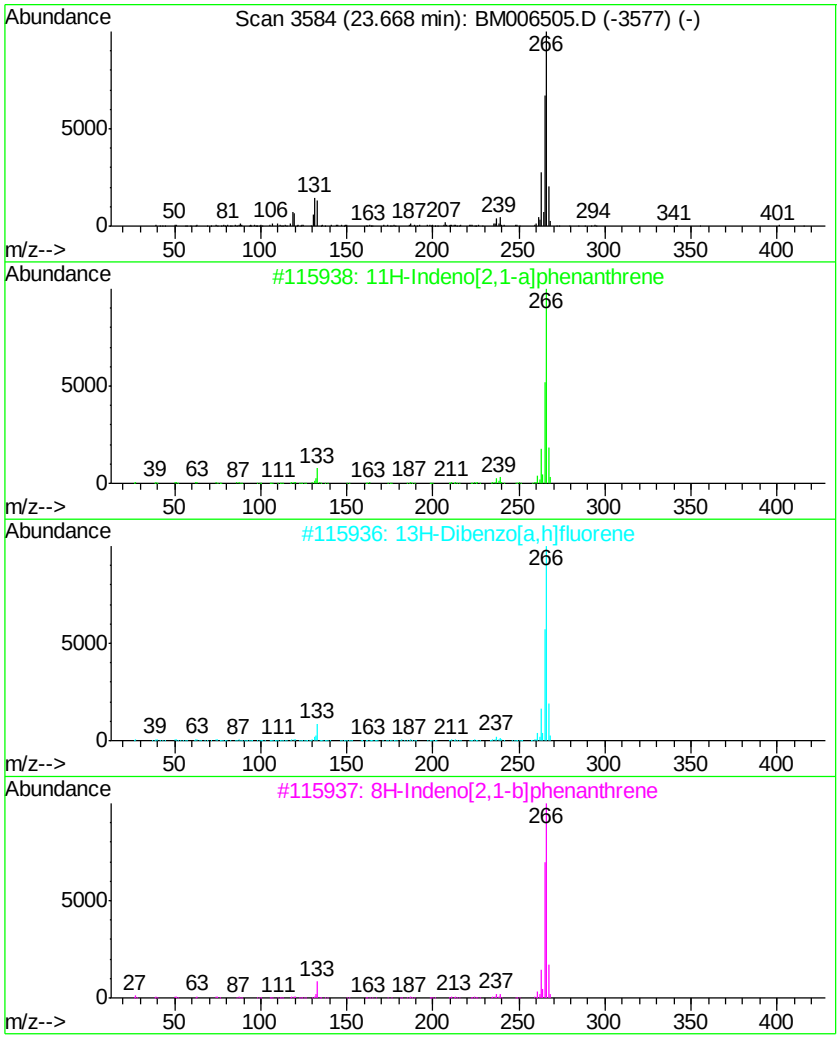
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

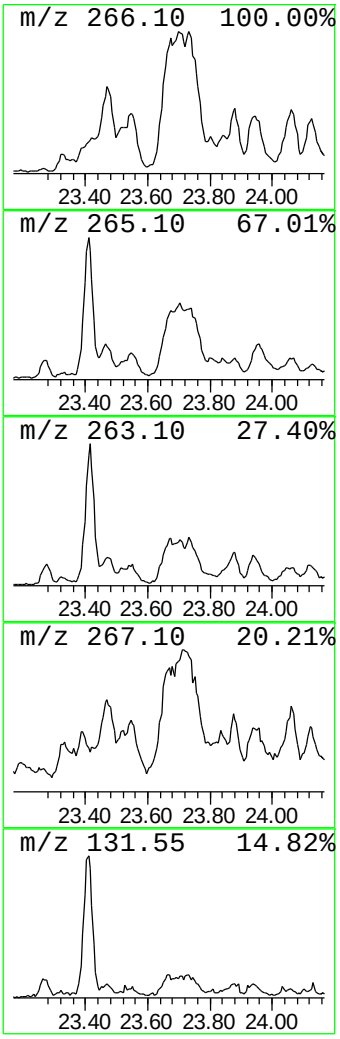
****

Peak Number 27 11H-Indeno[2,1-a]phenanthrene Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.67	3.22 ng/ul	376907	Perylene-d12	23.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Indeno[2,1-a]phenanthrene	266	C21H14	000220-97-3	91
2	13H-Dibenzo[a,h]fluorene	266	C21H14	000239-85-0	90
3	8H-Indeno[2,1-b]phenanthrene	266	C21H14	000241-28-1	87
4	Furazano[3,4-g]benzimidazole, 7-...	266	C14H10N4S	129485-61-6	64
5	1-Benzothieno[3,2-f]quinazoline-...	266	C14H10N4S	065642-92-4	53





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Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.M
Quant Title : SVOA CALIBRATION

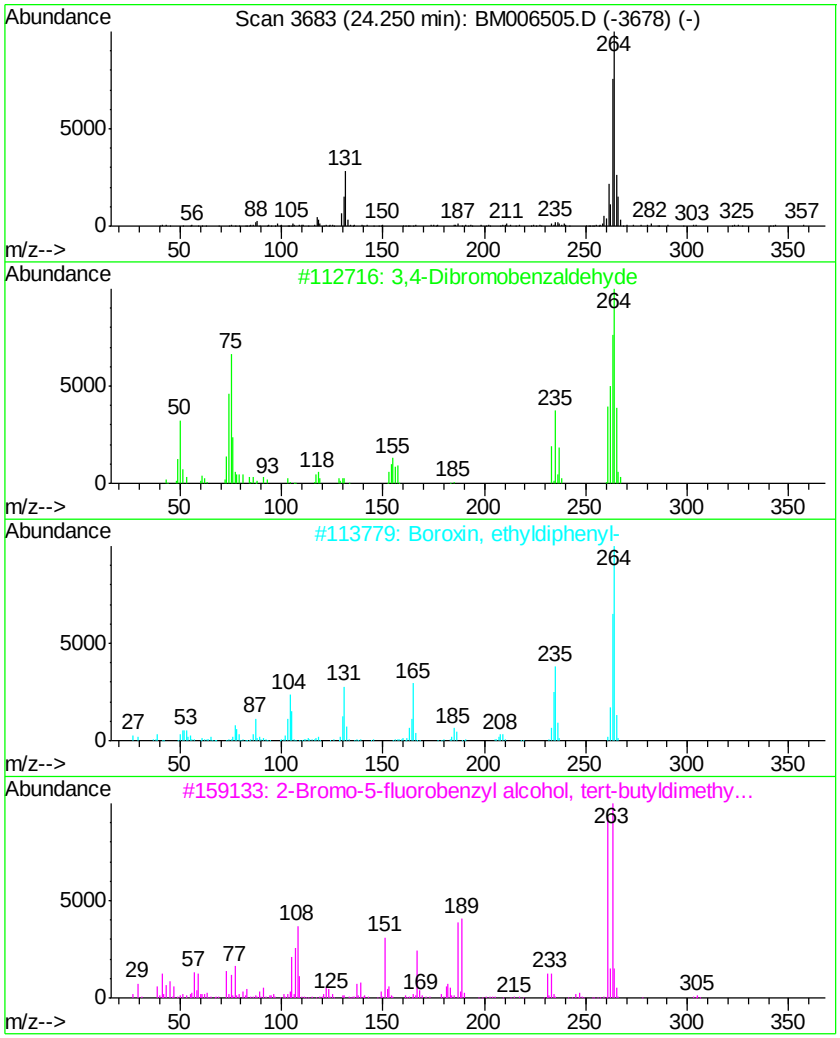
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

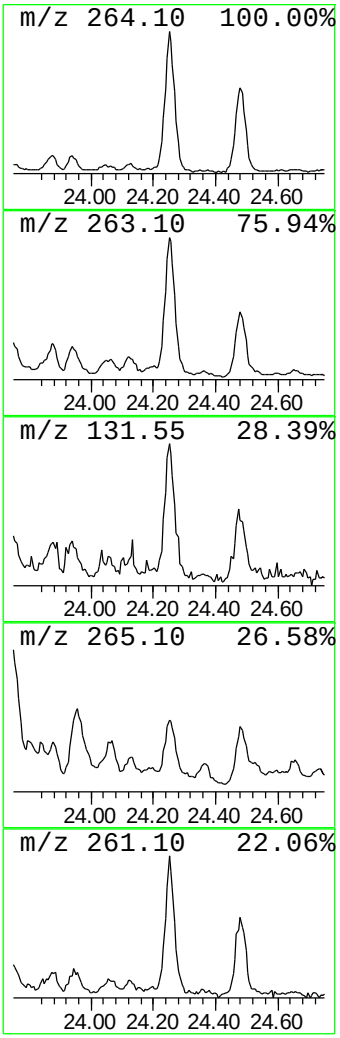
****

Peak Number 28 3,4-Dibromobenzaldehyde Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.25	5.34 ng/ul	624655	Perylene-d12	23.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,4-Dibromobenzaldehyde	262	C7H4Br2O	074003-55-7	64
2	Boroxin, ethyldiphenyl-	264	C14H15B3O3	1000151-82-0	59
3	2-Bromo-5-fluorobenzyl alcohol, ...	318	C13H20BrFOSi	1000364-15-6	35
4	Iron, (.eta.-5-cyclopentadienyl)...	264	C16H16Fe	1000155-06-6	32
5	2-[2-Quinolinyl]methylenequinucl...	264	C17H16N2O	1000257-08-0	27





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Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.M
Quant Title : SVOA CALIBRATION

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

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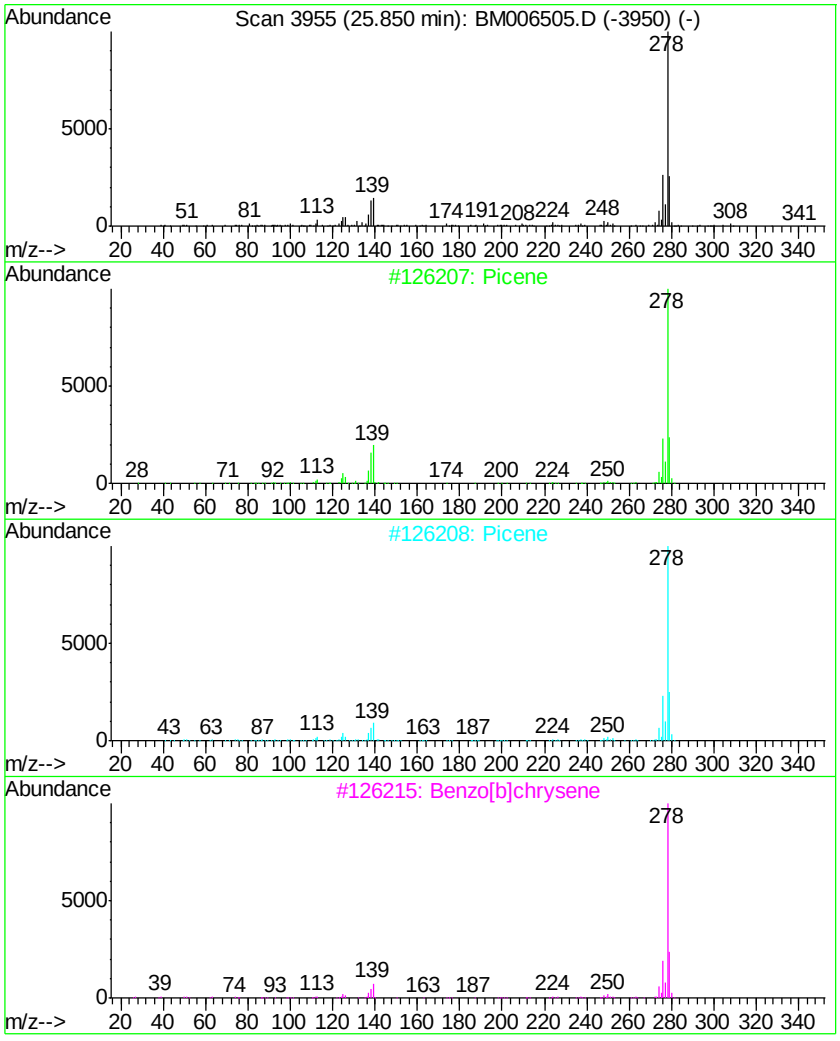
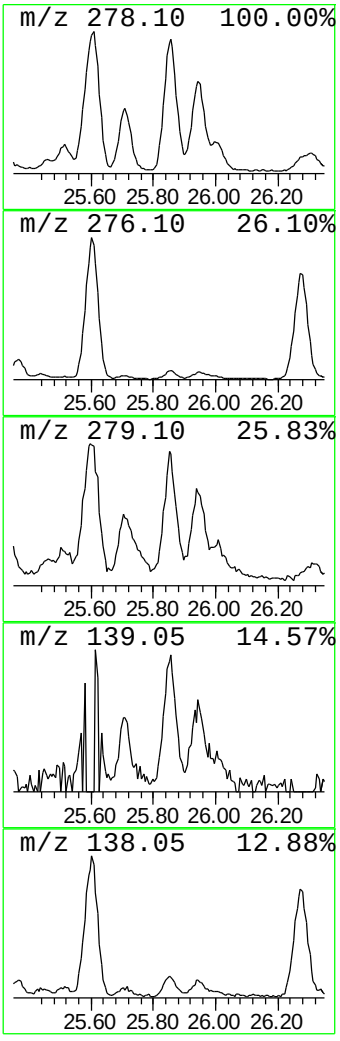
Peak Number 29 Picene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.85	4.03 ng/ul	470930	Perylene-d12	23.41

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Picene	278	C22H14	000213-46-7	97
2	Picene	278	C22H14	000213-46-7	97
3	Benzo[b]chrysene	278	C22H14	000214-17-5	97
4	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	96
5	Dibenz[a,h]anthracene	278	C22H14	000053-70-3	93





Tentatively Identified Compound (LSC) summary

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Data File : BM006505.D
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Operator : UM/SJ
Sample : H3959-02 10X
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BDJ21

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM071416.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
9H-Fluoren-9-ol	15.62	4.6	ng/ul	326666	3	14.26	1422780	20.0
Dibenzofuran, 4-m...	15.76	5.5	ng/ul	478362	4	17.02	1750700	20.0
9H-Fluorene, 1-me...	16.32	4.2	ng/ul	366115	4	17.02	1750700	20.0
8-Dimethylaminona...	16.75	2.6	ng/ul	231672	4	17.02	1750700	20.0
Dibenzothiophene	16.83	4.2	ng/ul	371546	4	17.02	1750700	20.0
Naphthalene, 1-ph...	17.54	2.1	ng/ul	185820	4	17.02	1750700	20.0
Dibenzothiophene,...	17.60	2.2	ng/ul	191120	4	17.02	1750700	20.0
Phenanthrene, 1-m...	17.89	10.1	ng/ul	879984	4	17.02	1750700	20.0
Phenanthrene, 2-m...	17.94	6.8	ng/ul	596682	4	17.02	1750700	20.0
4H-Cyclopenta[def...	18.09	27.3	ng/ul	2387990	4	17.02	1750700	20.0
Anthracene, 1-met...	18.12	5.0	ng/ul	441894	4	17.02	1750700	20.0
Naphthalene, 2-ph...	18.40	9.5	ng/ul	829705	4	17.02	1750700	20.0
9,10-Dimethylanth...	18.82	6.4	ng/ul	557426	4	17.02	1750700	20.0
unknown-01	18.88	3.7	ng/ul	327506	4	17.02	1750700	20.0
Pyrene, 1-methyl-	19.77	2.5	ng/ul	1134470	5	21.22	8882310	20.0
Fluoranthene, 2-m...	19.94	5.3	ng/ul	2347100	5	21.22	8882310	20.0
11H-Benzo[b]fluorene	20.04	5.4	ng/ul	2406110	5	21.22	8882310	20.0
Cyclopenta(cd)pyr...	21.37	2.3	ng/ul	1036370	5	21.22	8882310	20.0
Benz[a]anthracene...	21.76	3.2	ng/ul	1424410	5	21.22	8882310	20.0
9H-Cyclopenta[a]p...	21.98	2.2	ng/ul	976388	5	21.22	8882310	20.0
7,12-Dihydrobenzo...	22.52	2.8	ng/ul	327823	6	23.41	2339610	20.0
Benzo[e]pyrene	22.92	9.8	ng/ul	1141360	6	23.41	2339610	20.0
Dinaphtho[1,2-b:1...	23.05	4.3	ng/ul	507393	6	23.41	2339610	20.0
11H-Indeno[2,1-a]...	23.67	3.2	ng/ul	376907	6	23.41	2339610	20.0
3,4-Dibromobenzal...	24.25	5.3	ng/ul	624655	6	23.41	2339610	20.0
Picene	25.85	4.0	ng/ul	470930	6	23.41	2339610	20.0