LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM020816\
Data File : BM004200.D
Acq On : 08 Feb 2016 15:11
Operator : SJ/IZ
Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

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:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.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	7.657	771	777	784	rBB	87970	136079	2.27%	0.206%
2	10.445	1244	1251	1255	rBV	141302	234983	3.91%	0.356%
3	10.492	1255	1259	1266	rVB	74940	117210	1.95%	0.178%
4	14.316	1901	1909	1915	rBV2	233837	358720	5.97%	0.544%
5	14.380	1915	1920	1927	rVB	503677	721212	12.01%	1.093%
6	14.716	1971	1977	1986	rBB	197219	277926	4.63%	0.421%
7	15.310	2070	2078	2083	rBV	75261	107400	1.79%	0.163%
8	15.368	2083	2088	2097	rVB	387782	528950	8.81%	0.802%
9	15.810	2158	2163	2171	rVB	71678	129639	2.16%	0.197%
10	16.374	2247	2259	2263	rBV3	54660	135074	2.25%	0.205%
11	16.727	2314	2319	2326	rVB	99948	143663	2.39%	0.218%
12	16.821	2326	2335	2340	rVV2	75772	144073	2.40%	0.218%
13	16.886	2341	2346	2355	rVV	165381	234640	3.91%	0.356%
14	17.068	2371	2377	2380	rBV	290425	448376	7.46%	0.680%
15	17.121	2380	2386	2391	rVV	2478777	3805645	63.35%	5.770%
16	17.168	2391	2394	2396	rVV2	132502	174800	2.91%	0.265%
17	17.204	2396	2400	2405	rVB	778351	1066998	17.76%	1.618%
18	17.474	2435	2446	2461	rBV2	375551	626548	10.43%	0.950%
19	17.945	2516	2526	2530	rBV	269496	397932	6.62%	0.603%
20	17.992	2530	2534	2541	rVB	404258	562594	9.37%	0.853%
21	18.074	2541	2548	2553	rBV	154536	229050	3.81%	0.347%
22	18.145	2553	2560	2564	rBV2	493962	872538	14.52%	1.323%
23	18.174	2564	2565	2573	rVB	165847	175459	2.92%	0.266%
24	18.451	2607	2612	2616	rBV	221555	289688	4.82%	0.439%
25	18.498	2616	2620	2627	rVB	188859	240932	4.01%	0.365%
26	18.868	2677	2683	2690	rBV	107385	232441	3.87%	0.352%
27	19.021	2703	2709	2716	rVB2	122386	221416	3.69%	0.336%
28	19.151	2723	2731	2736	rBV	3273567	5383043	89.61%	8.161%
29	19.239	2743	2746	2751	rVB	97120	122300	2.04%	0.185%
30	19.386	2757	2771	2775	rBV2	149612	365300	6.08%	0.554%
31	19.515	2782	2793	2800	rBV3	2783013	6007253	100.00%	9.108%
32	19.574	2800	2803	2810	rVB3	190570	276565	4.60%	0.419%
33	19.686	2816	2822	2828	rBV	256899	361702	6.02%	0.548%
34	19.751	2828	2833	2838	rVB	236683	329045	5.48%	0.499%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM020816\
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Acq On : 08 Feb 2016 15:11
Operator : SJ/IZ
Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

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:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Title : SVOA CALIBRATION

35	19.827	2840	2846	2848	rBV	218950	379395	6.32%	0.575%
36	19.892	2853	2857	2861	rVB	106777	127066	2.12%	0.193%
37	19.968	2864	2870	2872	rBV3	171573	315476	5.25%	0.478%
38	20.009	2872	2877	2881	rVB	645974	944597	15.72%	1.432%
39	20.109	2888	2894	2897	rBV	570580	742025	12.35%	1.125%
40	20.162	2897	2903	2907	rVV2	317066	591335	9.84%	0.897%
41	20.203	2907	2910	2914	rVV	264610	325045	5.41%	0.493%
42	20.245	2914	2917	2922	rVB	102785	135716	2.26%	0.206%
43	20.309	2922	2928	2931	rBV	150061	217452	3.62%	0.330%
44	20.351	2931	2935	2939	rVB2	168042	215353	3.58%	0.326%
45	20.603	2974	2978	2980	rVV4	90808	150021	2.50%	0.227%
46	20.639	2980	2984	2987	rVV2	132304	222826	3.71%	0.338%
47	20.721	2993	2998	3001	rBV2	97651	167016	2.78%	0.253%
48	20.762	3001	3005	3011	rVV	342977	479722	7.99%	0.727%
49	20.927	3025	3033	3036	rBV3	432563	706695	11.76%	1.071%
50	20.962	3036	3039	3042	rVV	402689	497396	8.28%	0.754%
51	21.003	3042	3046	3051	rVV2	369215	684358	11.39%	1.038%
52	21.062	3051	3056	3066	rVB2	379706	621123	10.34%	0.942%
53	21.162	3066	3073	3074	rBV	152607	255923	4.26%	0.388%
54	21.192	3074	3078	3082	rVV	798193	923479	15.37%	1.400%
55	21.274	3082	3092	3097	rVV3	2437457	4785135	79.66%	7.255%
56	21.327	3097	3101	3110	rVB	2218532	3169628	52.76%	4.805%
57	21.439	3116	3120	3126	rVV	574555	764016	12.72%	1.158%
58	21.497	3126	3130	3132	rVV3	100011	162627	2.71%	0.247%
59	21.545	3135	3138	3142	rVV	226152	319129	5.31%	0.484%
60	21.597	3142	3147	3152	rVV2	345330	556275	9.26%	0.843%
61	21.733	3163	3170	3173	rBV3	89225	173228	2.88%	0.263%
62	21.774	3173	3177	3180	rVV2	152173	274352	4.57%	0.416%
63	21.833	3180	3187	3190	rVV	432101	797447	13.27%	1.209%
64	21.880	3191	3195	3201	rVV	257302	483021	8.04%	0.732%
65	21.945	3202	3206	3209	rVV3	140724	263582	4.39%	0.400%
66	21.986	3209	3213	3217	rVV2	202662	358518	5.97%	0.544%
67	22.027	3217	3220	3223	rVV2	290763	476665	7.93%	0.723%
68	22.062	3223	3226	3231	rVV3	316057	501035	8.34%	0.760%
69	22.121	3231	3236	3241	rVV2	204901	366480	6.10%	0.556%
70	22.315	3264	3269	3273	rBV3	169604	345377	5.75%	0.524%
71	22.480	3294	3297	3302	rVB2	89420	134972	2.25%	0.205%

LSC Area Percent Report

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Acq On : 08 Feb 2016 15:11
Operator : SJ/IZ
Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

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:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Title : SVOA CALIBRATION

72	22.539	3302	3307	3311	rVB2	89951	132001	2.20%	0.200%
73	22.603	3311	3318	3328	rBV4	214771	516599	8.60%	0.783%
74	22.686	3328	3332	3337	rVB4	86266	119249	1.99%	0.181%
75	22.762	3341	3345	3351	rVB2	89666	153730	2.56%	0.233%
76	22.868	3352	3363	3367	rBV	1550333	4192497	69.79%	6.356%
77	22.956	3373	3378	3384	rVB2	83510	161152	2.68%	0.244%
78	23.021	3384	3389	3395	rBV	325236	501069	8.34%	0.760%
79	23.156	3406	3412	3419	rBV3	125489	362815	6.04%	0.550%
80	23.250	3419	3428	3429	rBV4	72410	182751	3.04%	0.277%
81	23.339	3435	3443	3452	rBV	859719	1781944	29.66%	2.702%
82	23.433	3452	3459	3465	rVB	1344092	2511651	41.81%	3.808%
83	23.521	3468	3474	3478	rBV	287517	557379	9.28%	0.845%
84	23.574	3478	3483	3490	rVB	448991	877384	14.61%	1.330%
85	23.774	3512	3517	3522	rBV3	64523	152110	2.53%	0.231%
86	23.997	3552	3555	3561	rVB3	56210	106893	1.78%	0.162%
87	24.062	3561	3566	3577	rVB4	81414	188138	3.13%	0.285%
88	24.386	3615	3621	3633	rVB2	105860	284137	4.73%	0.431%
89	24.615	3655	3660	3673	rVB6	39222	118373	1.97%	0.179%
90	25.085	3733	3740	3746	rBV2	54368	137953	2.30%	0.209%
91	25.462	3794	3804	3810	rBV2	87646	269581	4.49%	0.409%
92	25.533	3811	3816	3823	rVB	71197	171636	2.86%	0.260%
93	25.785	3847	3859	3868	rVV2	614025	1789557	29.79%	2.713%
94	25.874	3868	3874	3884	rVB	51873	138058	2.30%	0.209%
95	26.027	3890	3900	3908	rBV2	130255	384300	6.40%	0.583%
96	26.121	3908	3916	3922	rBV	83423	233307	3.88%	0.354%
97	26.474	3964	3976	3993	rVB	347310	1151999	19.18%	1.747%
98	26.656	3999	4007	4019	rVB6	43211	182706	3.04%	0.277%
99	26.827	4028	4036	4055	rVB2	95939	382982	6.38%	0.581%
100	27.856	4199	4211	4224	rVB2	25254	124028	2.06%	0.188%

Sum of corrected areas: 65958679

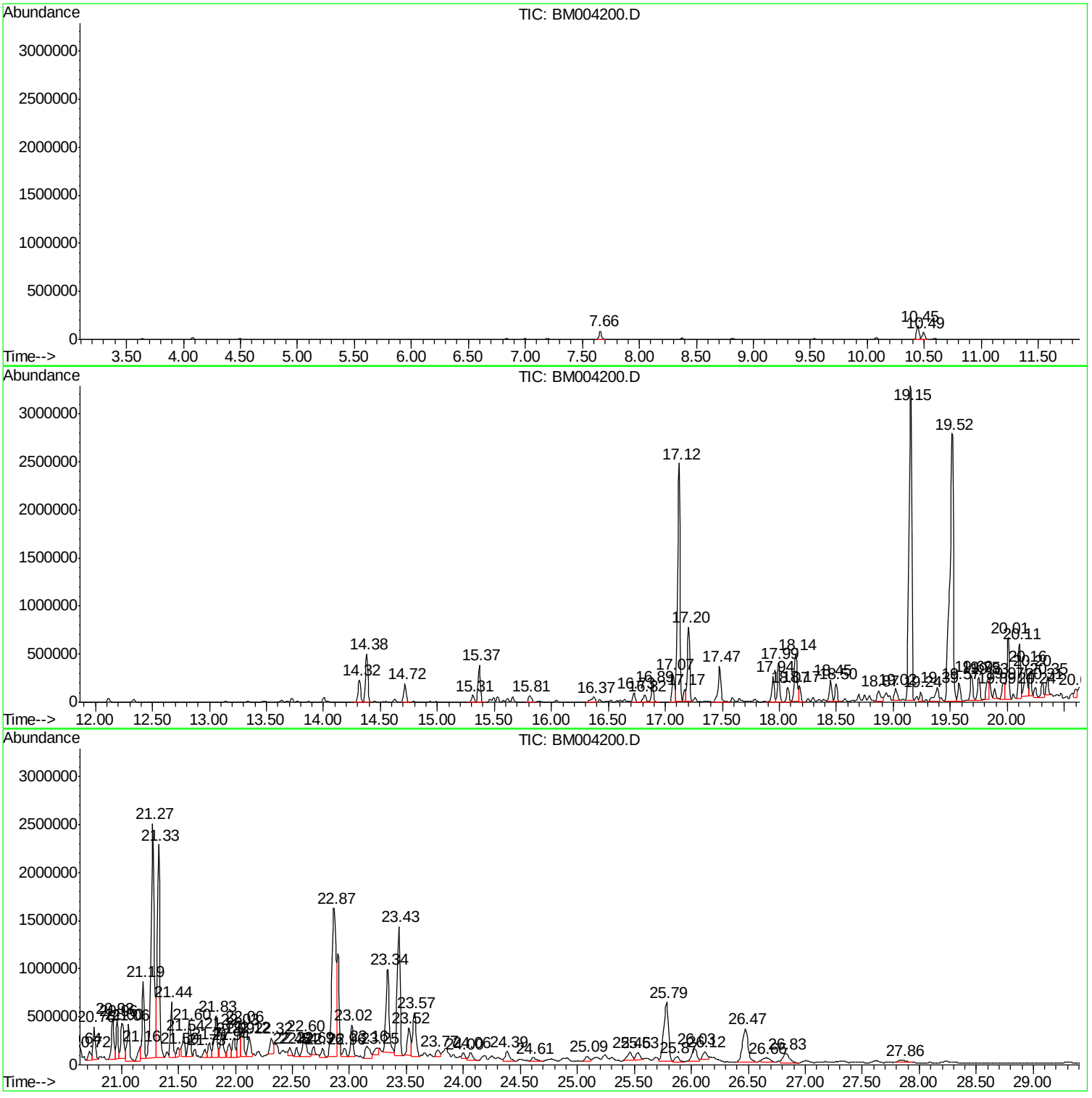
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM020816\
Data File : BM004200.D
Acq On : 08 Feb 2016 15:11
Operator : SJ/IZ
Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C04P4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM020816\
Data File : BM004200.D
Acq On : 08 Feb 2016 15:11
Operator : SJ/IZ
Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

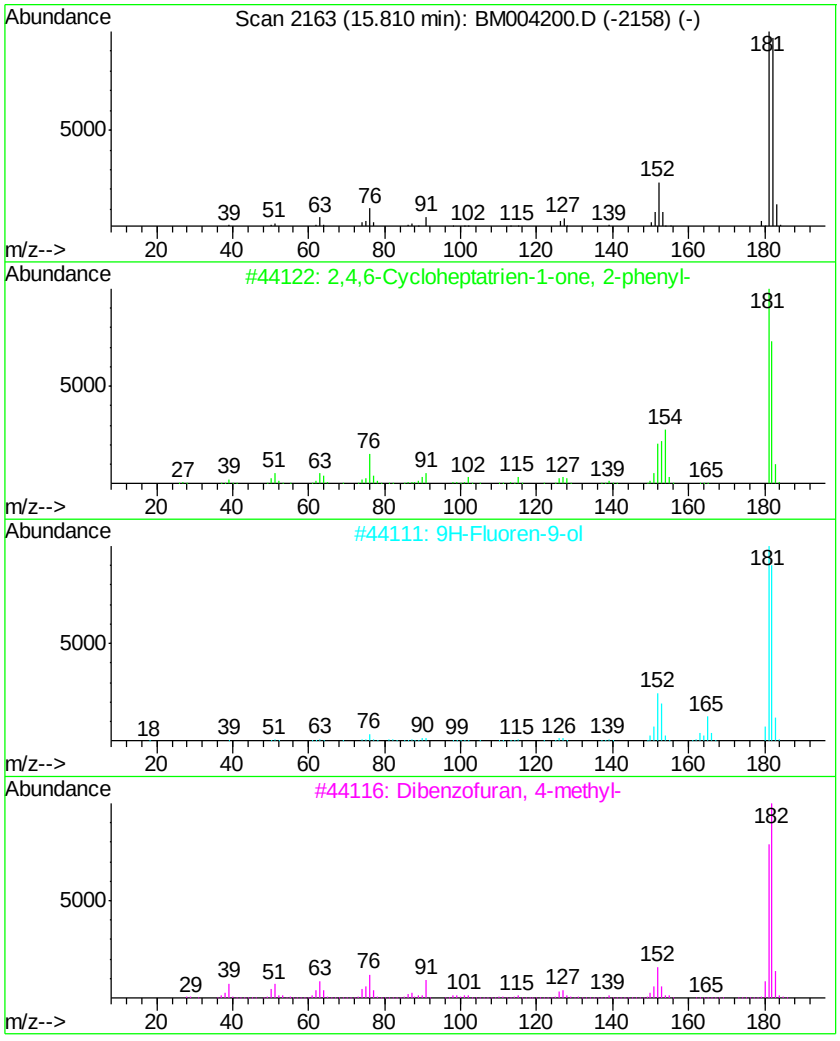
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

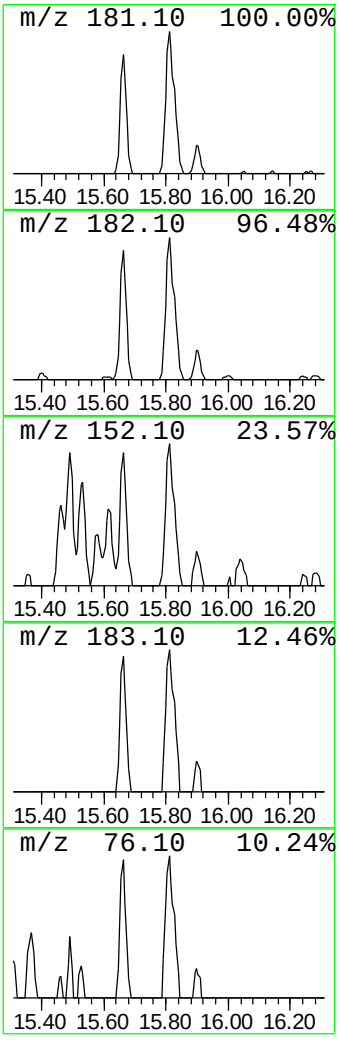
****

Peak Number 1 2,4,6-Cycloheptatrien-1-one... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.81	5.78 ng/ul	129639	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	86
2	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	72
3	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	68
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	59
5	6H-Dibenzo[b,d]-pyran	182	C13H10O	000229-95-8	59





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM020816\
Data File : BM004200.D
Acq On : 08 Feb 2016 15:11
Operator : SJ/IZ
Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

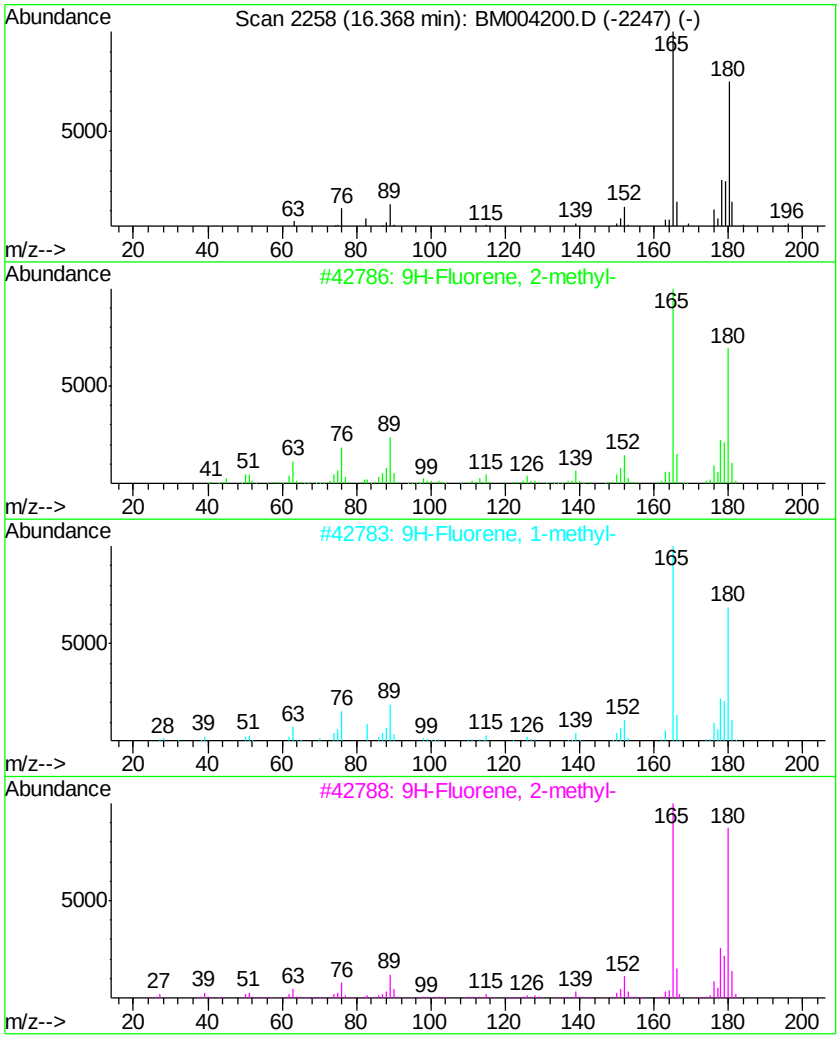
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

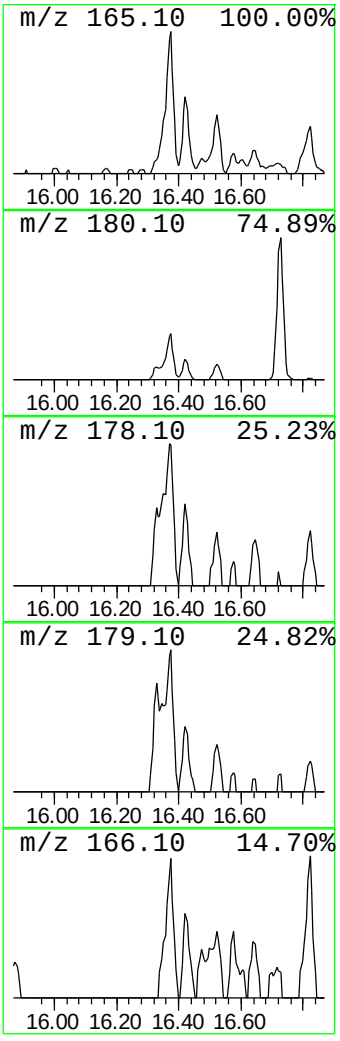
****

Peak Number 2 9H-Fluorene, 2-methyl- Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.37	6.03 ng/ul	135074	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	97
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	97
3	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	96
4	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	96
5	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	93





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM020816\
Data File : BM004200.D
Acq On : 08 Feb 2016 15:11
Operator : SJ/IZ
Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

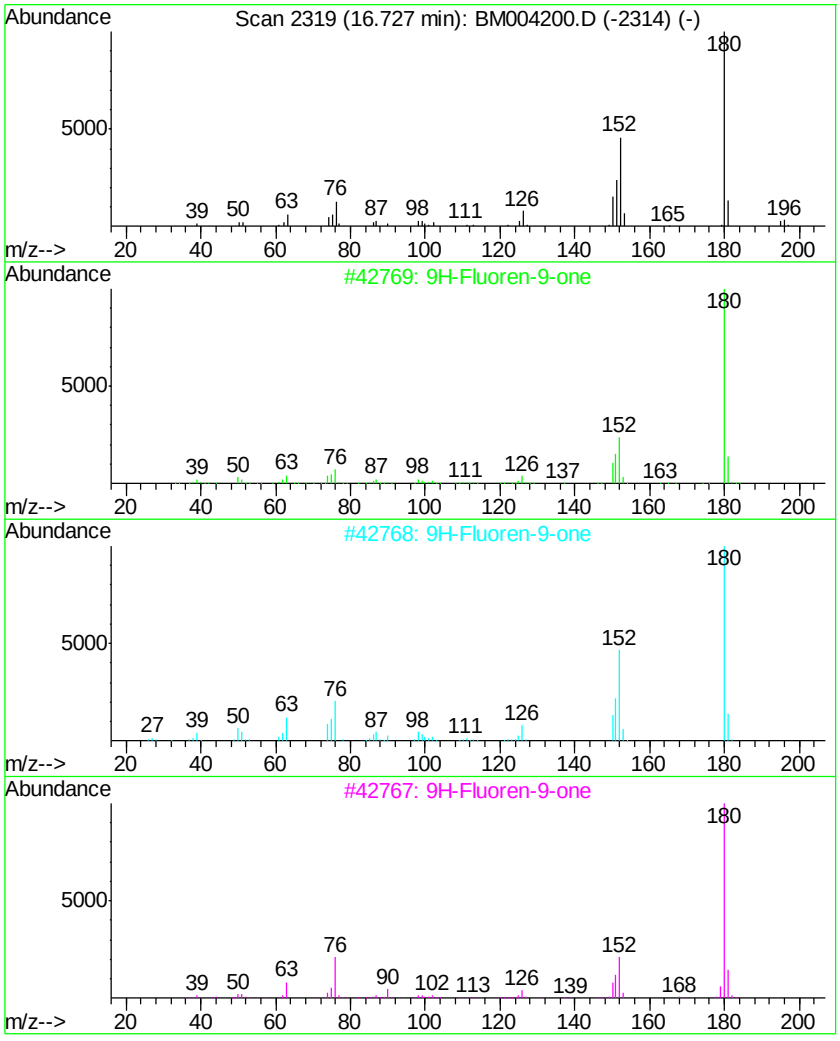
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

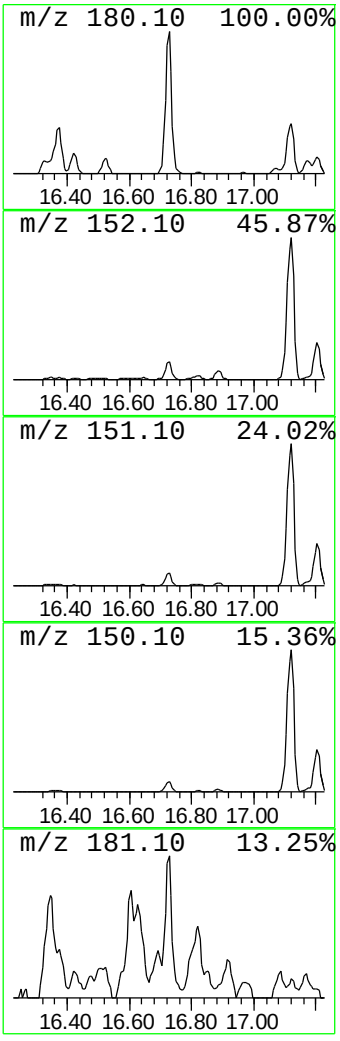
****

Peak Number 3 9H-Fluoren-9-one Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.73	6.41 ng/ul	143663	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	96
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	94
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	91
5	9H-Fluoren-9-one	180	C13H8O	000486-25-9	87





Data Path : Z:\HPCHEM1\BNA_M\DATA\BM020816\
Data File : BM004200.D
Acq On : 08 Feb 2016 15:11
Operator : SJ/IZ
Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

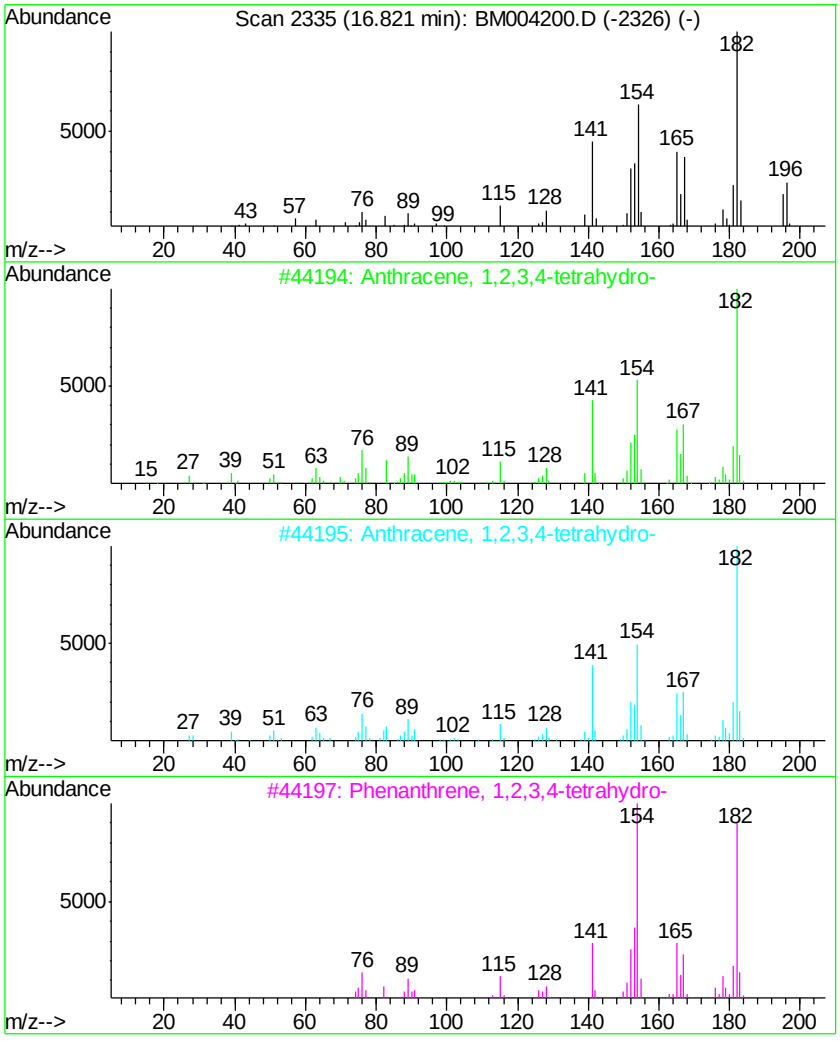
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

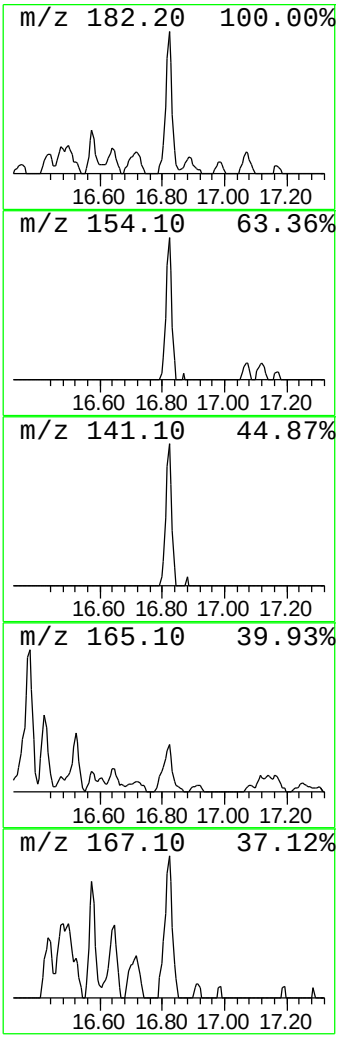
****

Peak Number 4 Anthracene, 1,2,3,4-tetrahy... Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.82	6.43 ng/ul	144073	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	97
2	Anthracene, 1,2,3,4-tetrahydro-	182	C14H14	002141-42-6	93
3	Phenanthrene, 1,2,3,4-tetrahydro-	182	C14H14	001013-08-7	64
4	1,1'-Biphenyl, 3,4'-dimethyl-	182	C14H14	007383-90-6	55
5	3,3'-Dimethylbiphenyl	182	C14H14	000612-75-9	49





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM020816\
Data File : BM004200.D
Acq On : 08 Feb 2016 15:11
Operator : SJ/IZ
Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

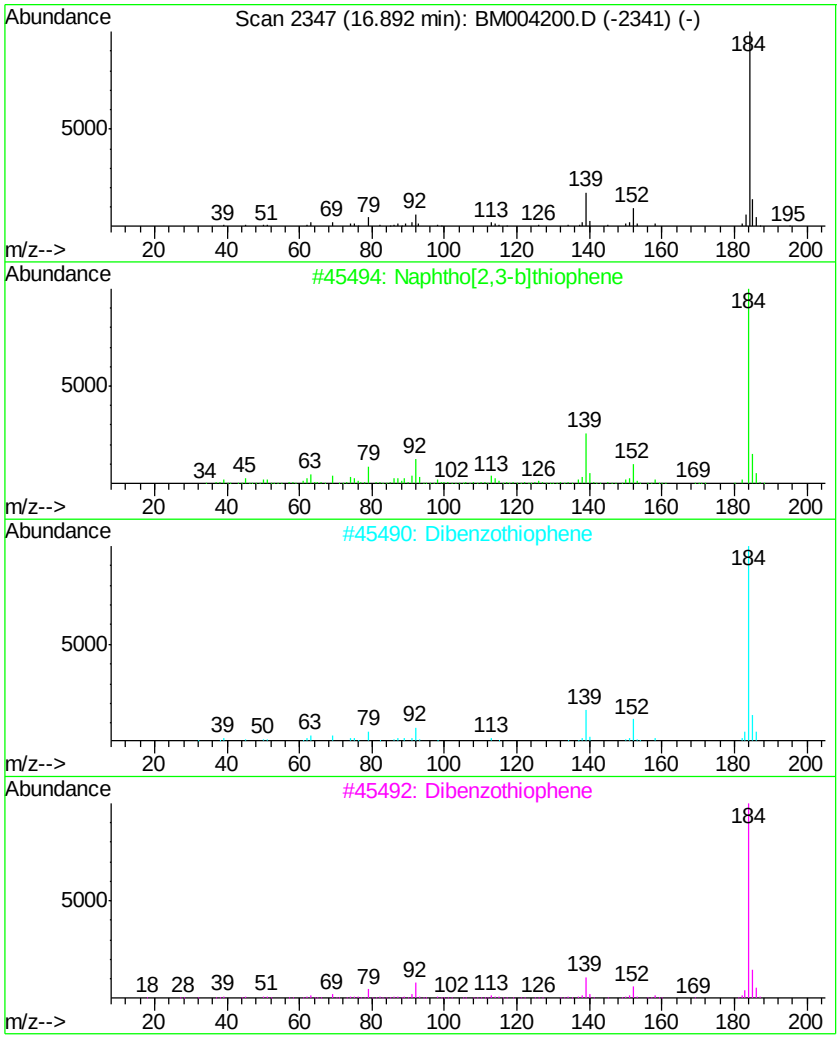
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

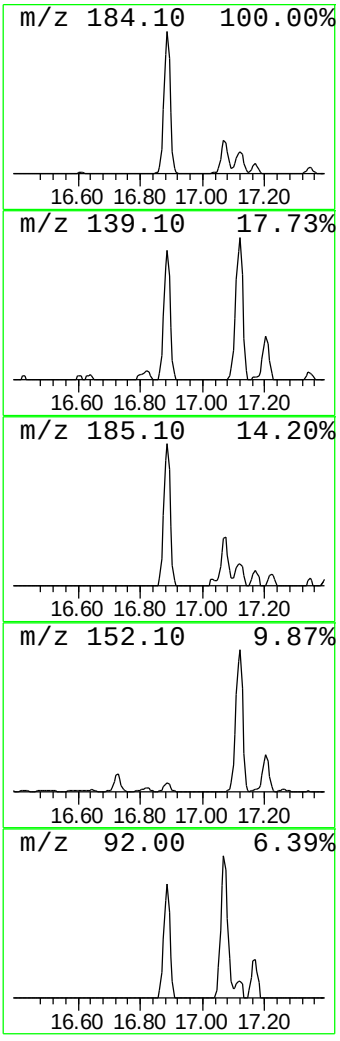
****

Peak Number 5 Naphtho[2,3-b]thiophene Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.89	10.47 ng/ul	234640	Phenanthrene-d10	17.07

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





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Operator : SJ/IZ
Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

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Quant Title : SVOA CALIBRATION

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

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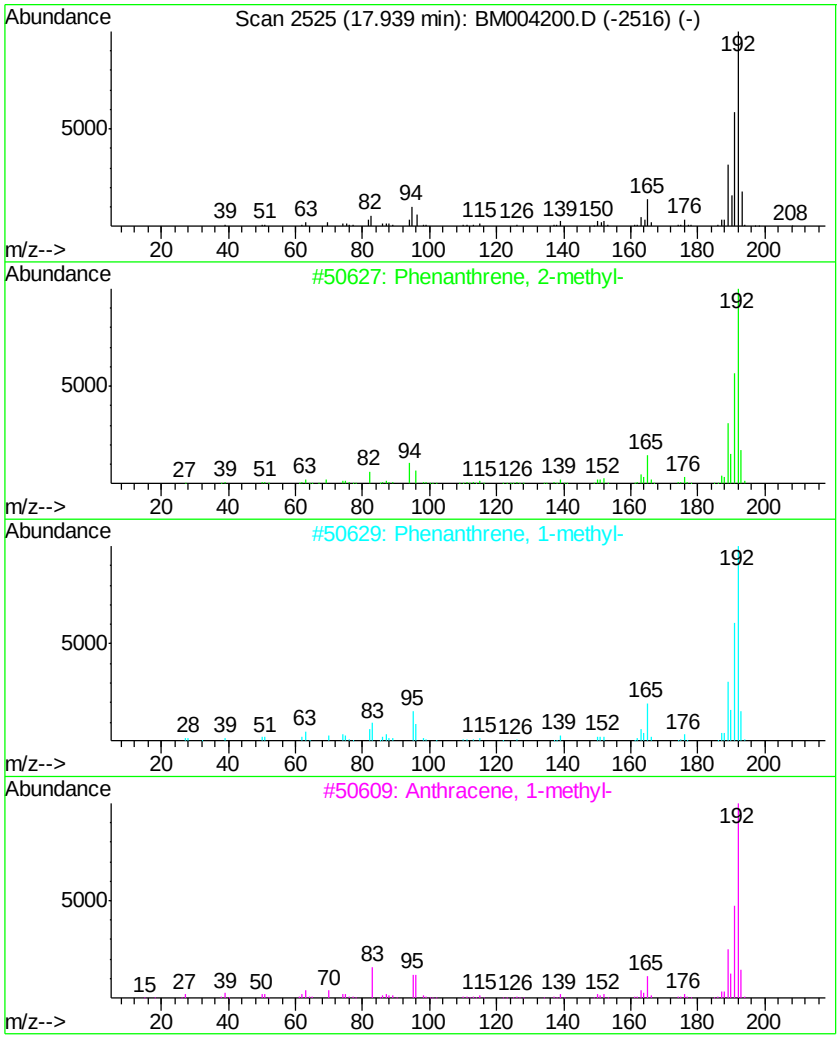
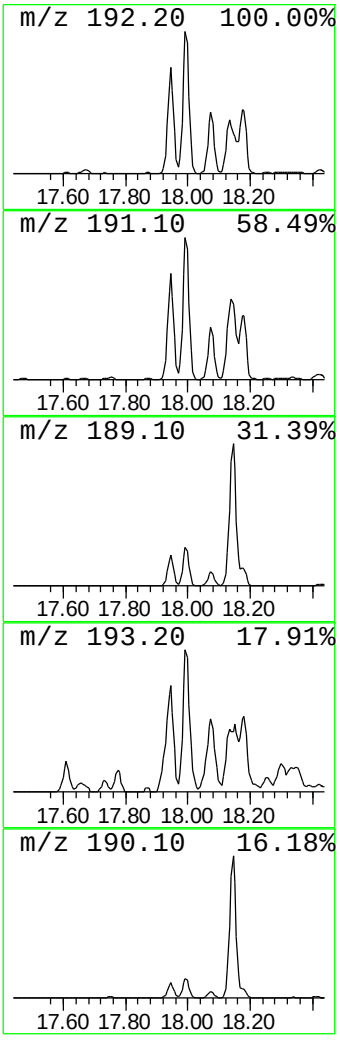
Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.94	17.75 ng/ul	397932	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
5	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93





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Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

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Quant Title : SVOA CALIBRATION

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

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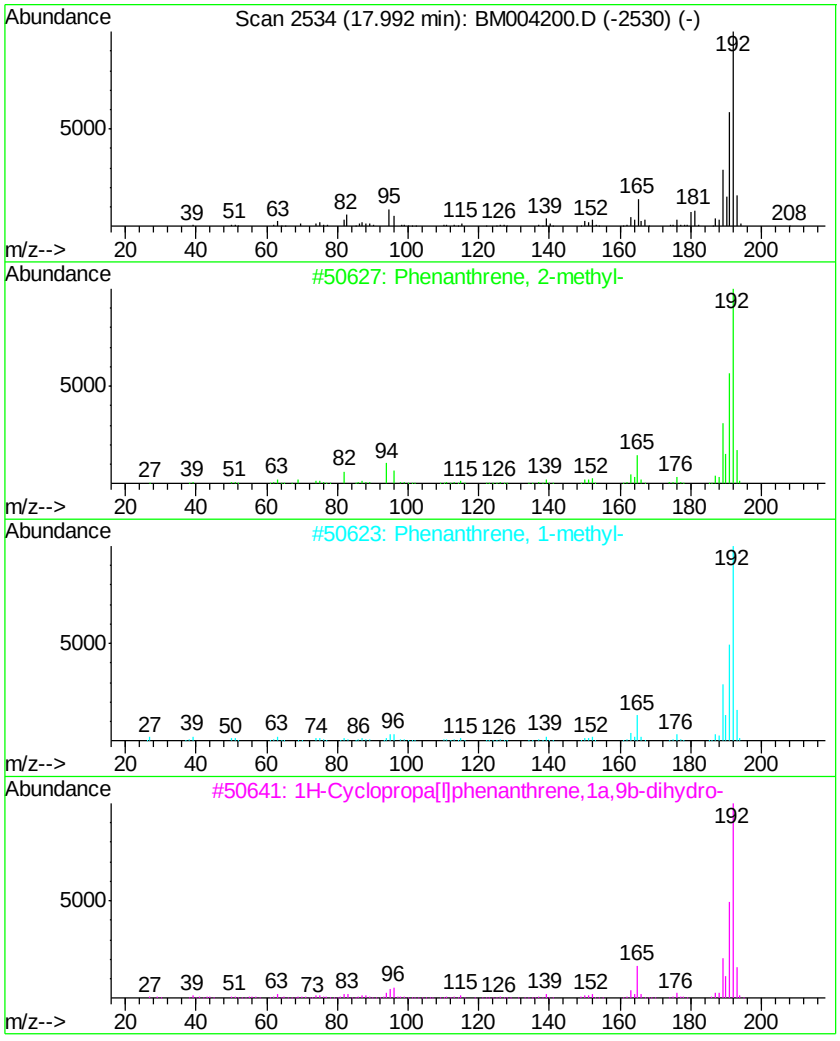
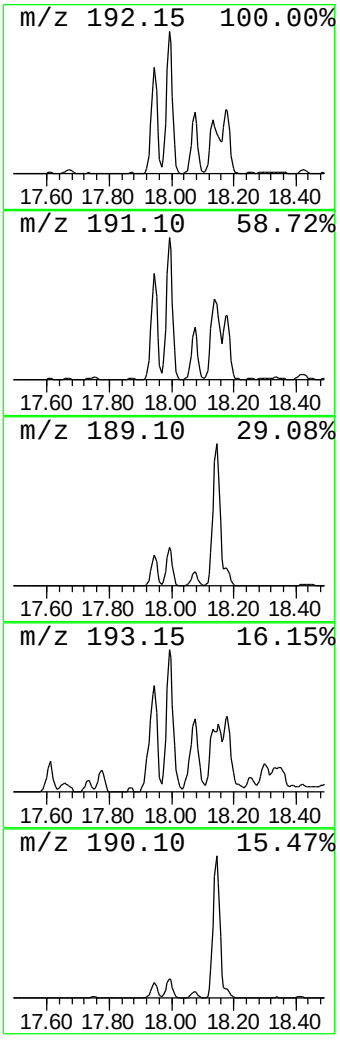
Peak Number 7 Phenanthrene, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.99	25.09 ng/ul	562594	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	97
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	97
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	96





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Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

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Quant Title : SVOA CALIBRATION

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

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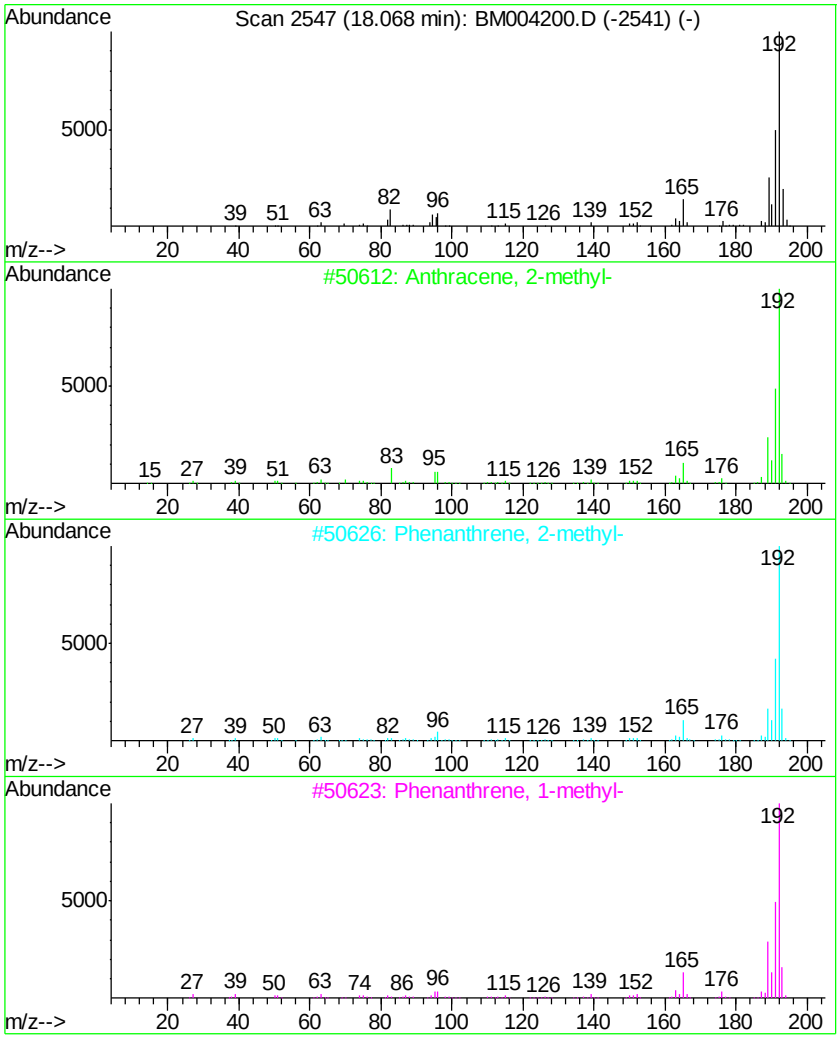
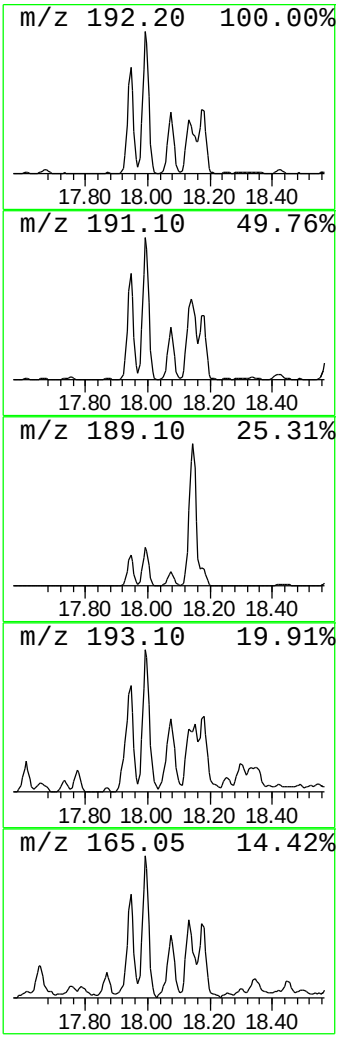
Peak Number 8 Anthracene, 2-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.07	10.22 ng/ul	229050	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	96
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	96





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ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

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Quant Title : SVOA CALIBRATION

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

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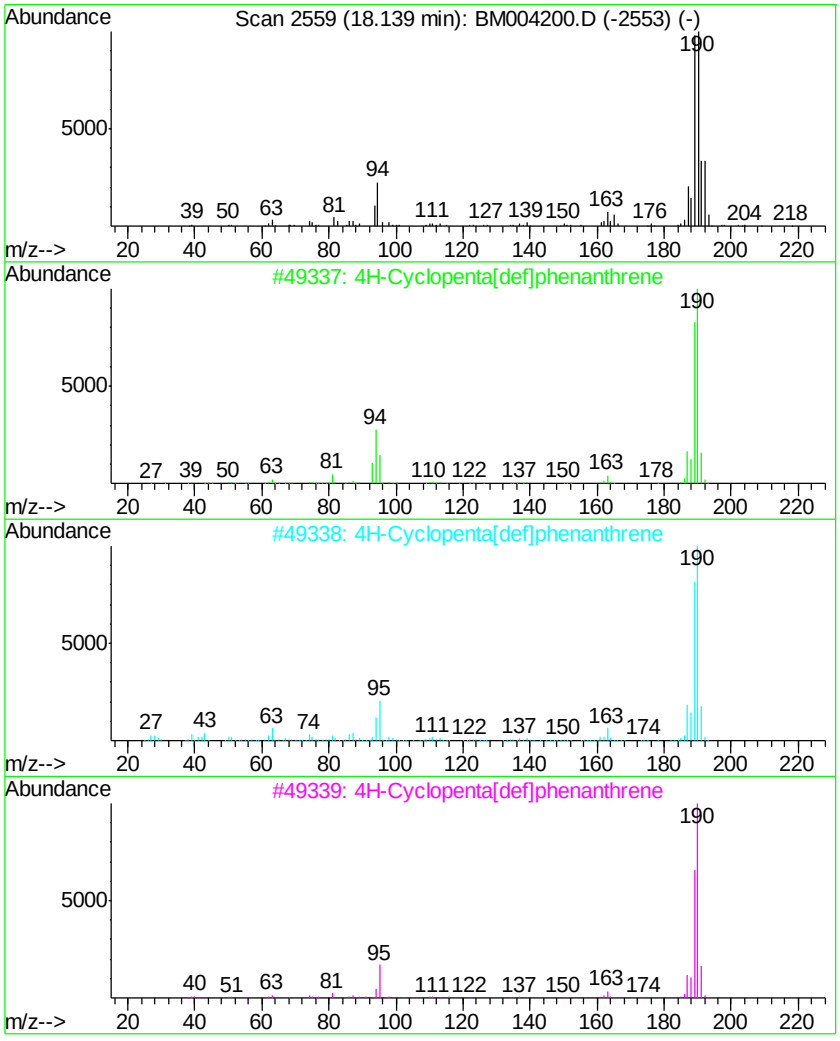
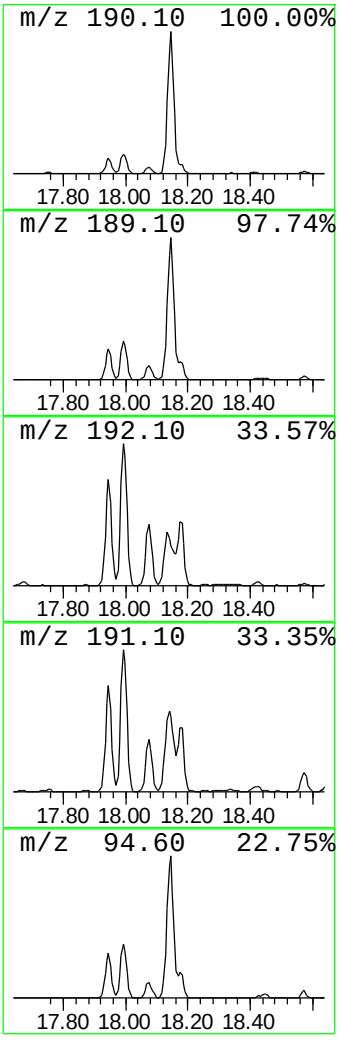
Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.14	38.92 ng/ul	872538	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	70
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	68
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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Quant Title : SVOA CALIBRATION

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

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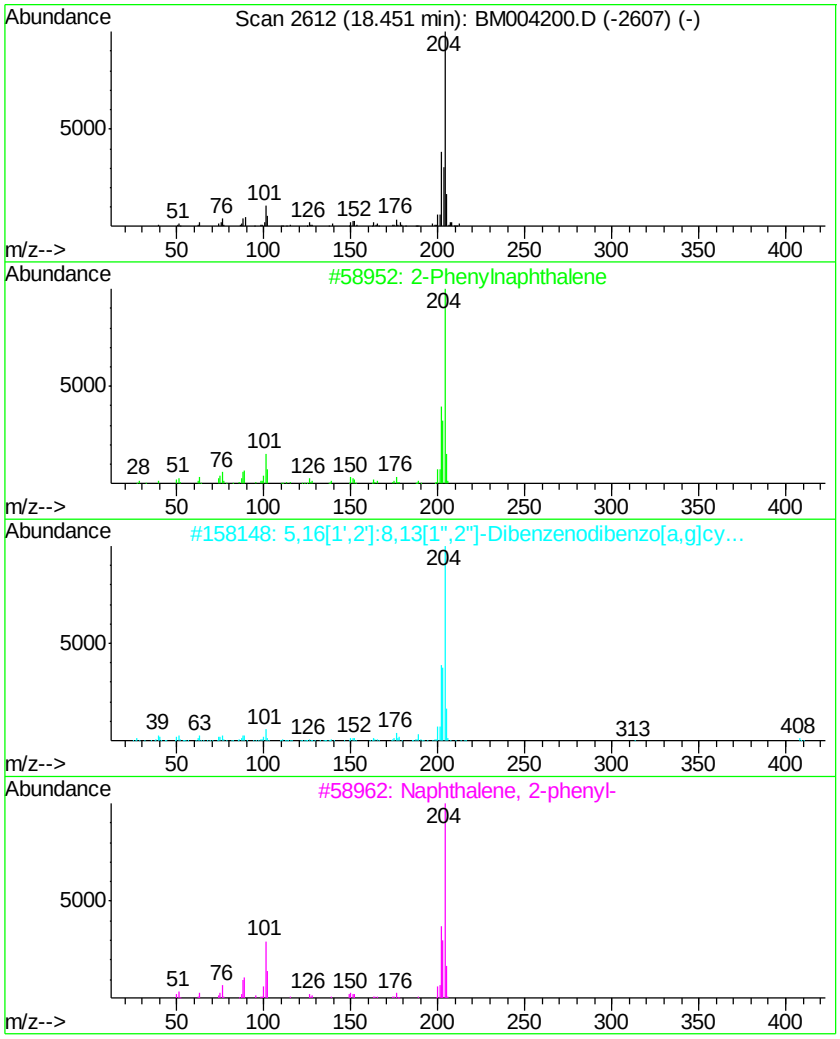
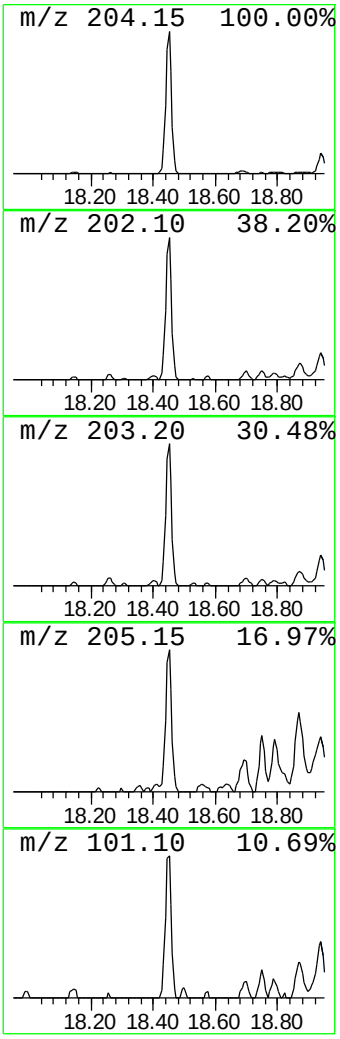
Peak Number 11 2-Phenylnaphthalene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.45	12.92 ng/ul	289688	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	95
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	91
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	86
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	76
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70





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Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

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Quant Title : SVOA CALIBRATION

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

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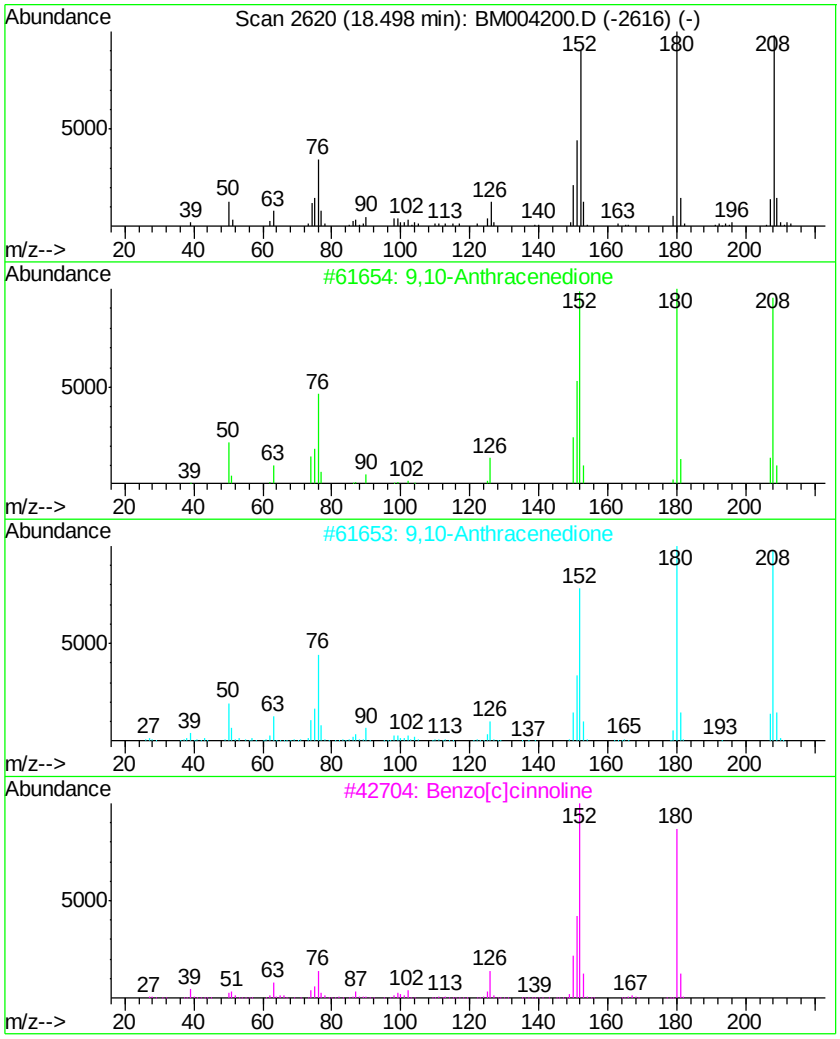
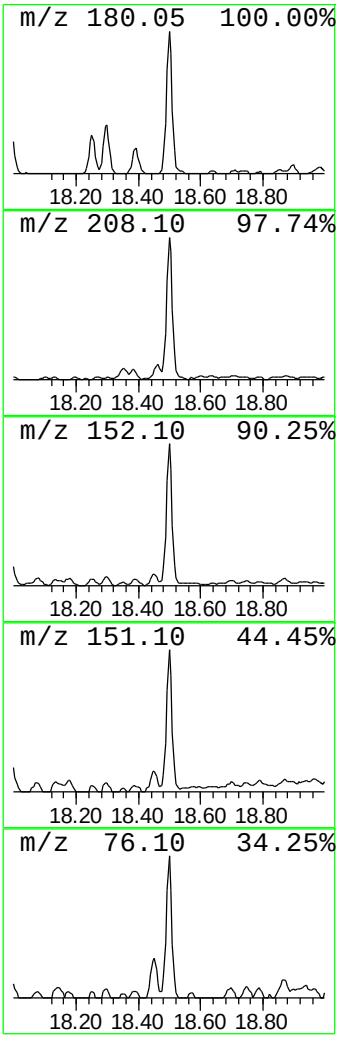
Peak Number 12 9,10-Anthracenedione Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.50	10.75 ng/ul	240932	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Anthracenedione	208	C14H8O2	000084-65-1	98
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	97
3	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	96
4	9,10-Anthracenedione	208	C14H8O2	000084-65-1	95
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	83





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Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

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Quant Title : SVOA CALIBRATION

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

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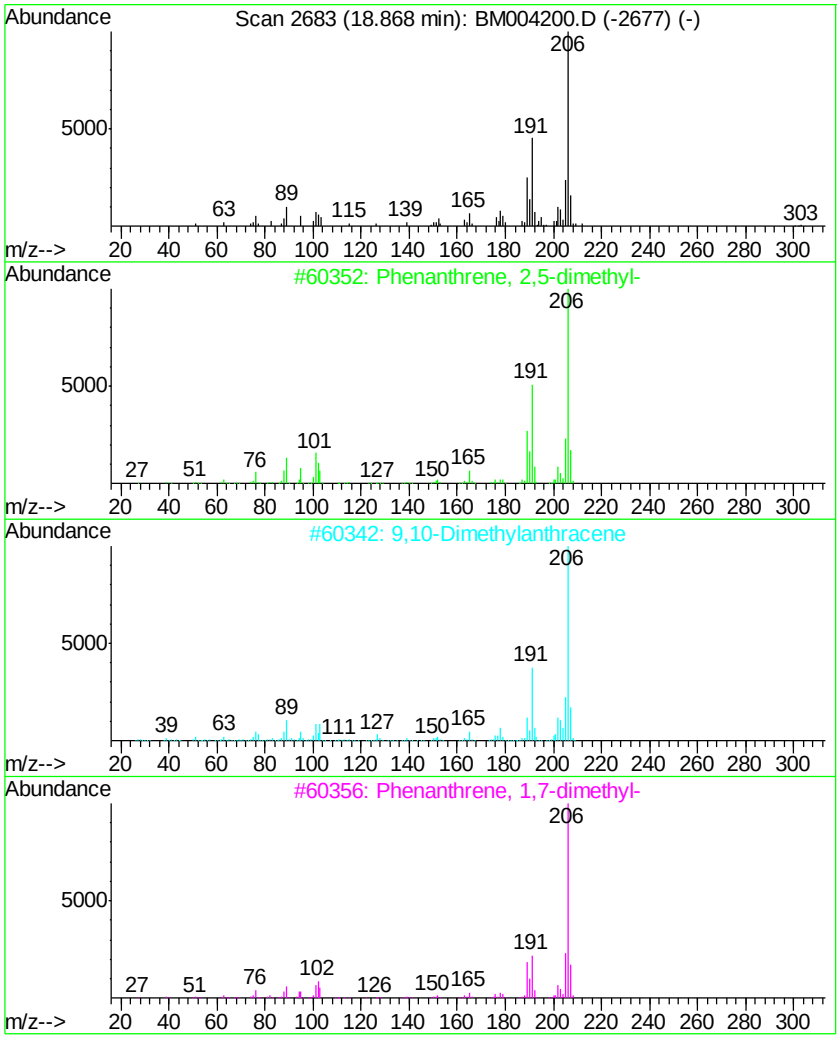
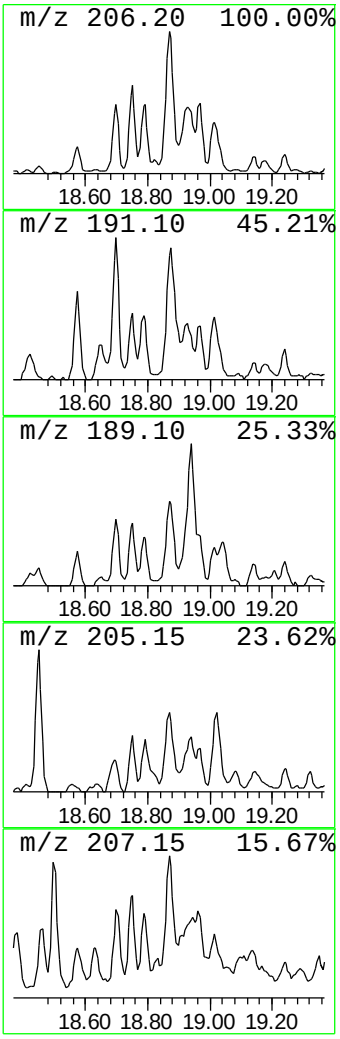
Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.87	10.37 ng/ul	232441	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	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
3	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	93
4	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93
5	9,10-Dimethylanthracene	206	C16H14	000781-43-1	93





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Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

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

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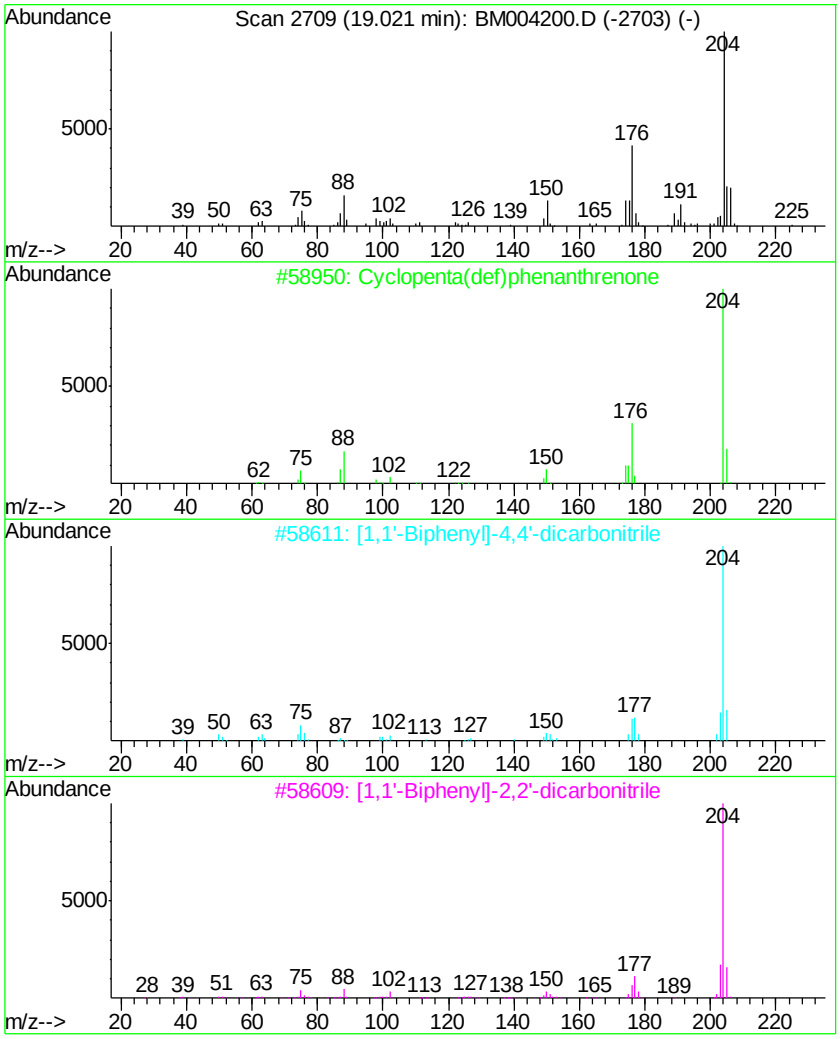
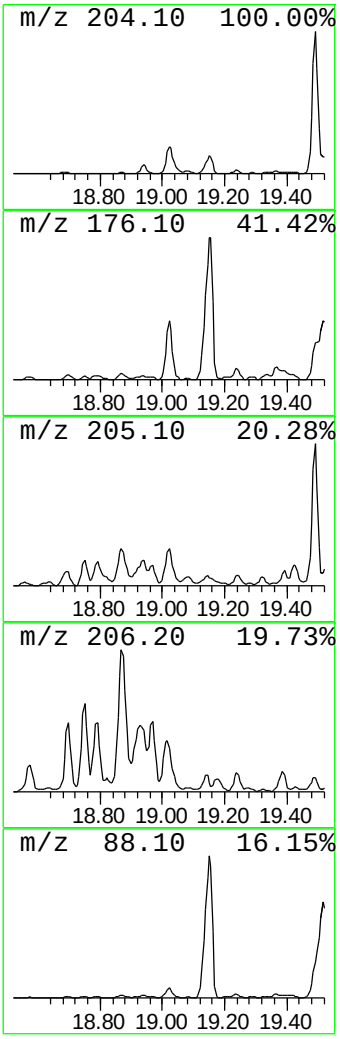
Peak Number 14 Cyclopenta(def)phenanthrenone Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.02	9.88 ng/ul	221416	Phenanthrene-d10	17.07

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	96
2	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50
3	[1,1'-Biphenyl]-2,2'-dicarbonitrile	204	C14H8N2	004341-02-0	43
4	1-Methyl-4-ethyl 2-phenylsuccinate	236	C13H16O4	132545-36-9	42
5	N-(4-Chloro-phenyl)-2-(3,4-dihyd...	330	C17H15ClN2OS	1000296-34-3	42





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Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

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Quant Title : SVOA CALIBRATION

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

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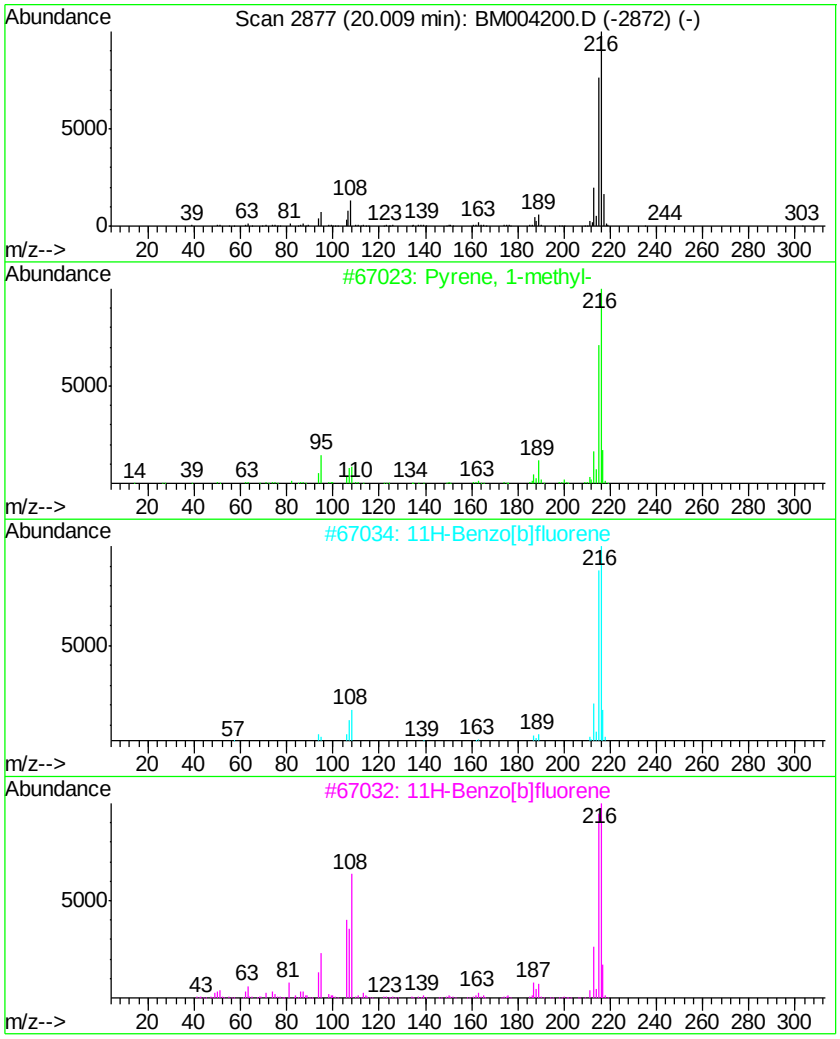
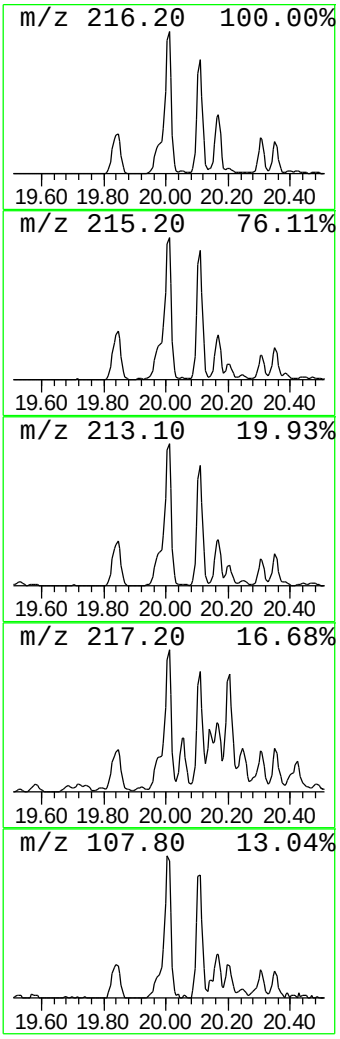
Peak Number 15 Pyrene, 1-methyl- Concentration Rank 38

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.01	3.95 ng/ul	944597	Chrysene-d12	21.29

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





Library Search Compound Report

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Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

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

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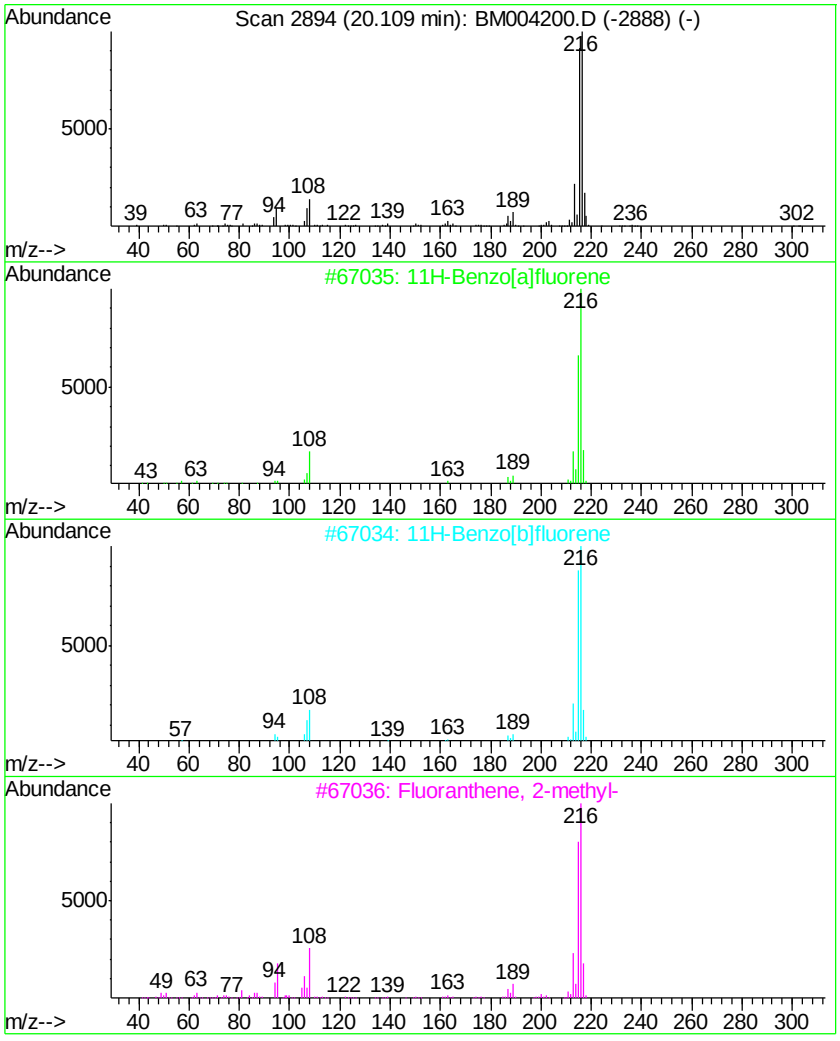
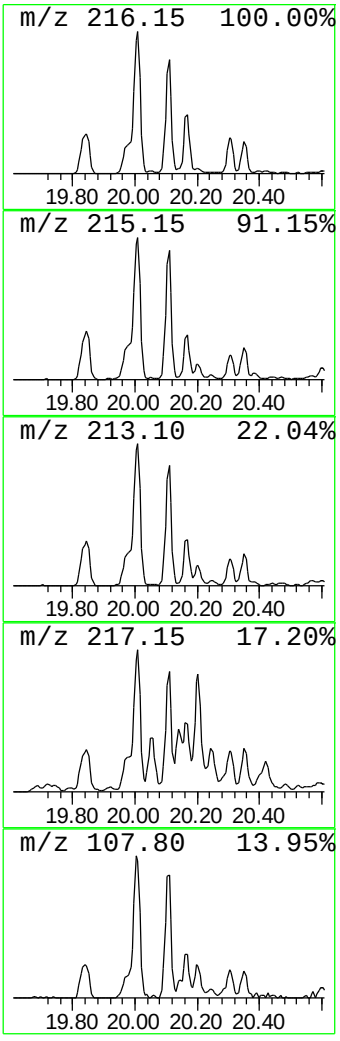
Peak Number 16 11H-Benzo[a]fluorene Concentration Rank 42

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.11	3.10 ng/ul	742025	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	90





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Sample : H1340-16 5X
Misc :
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ClientSampleId : C04P4

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Quant Title : SVOA CALIBRATION

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

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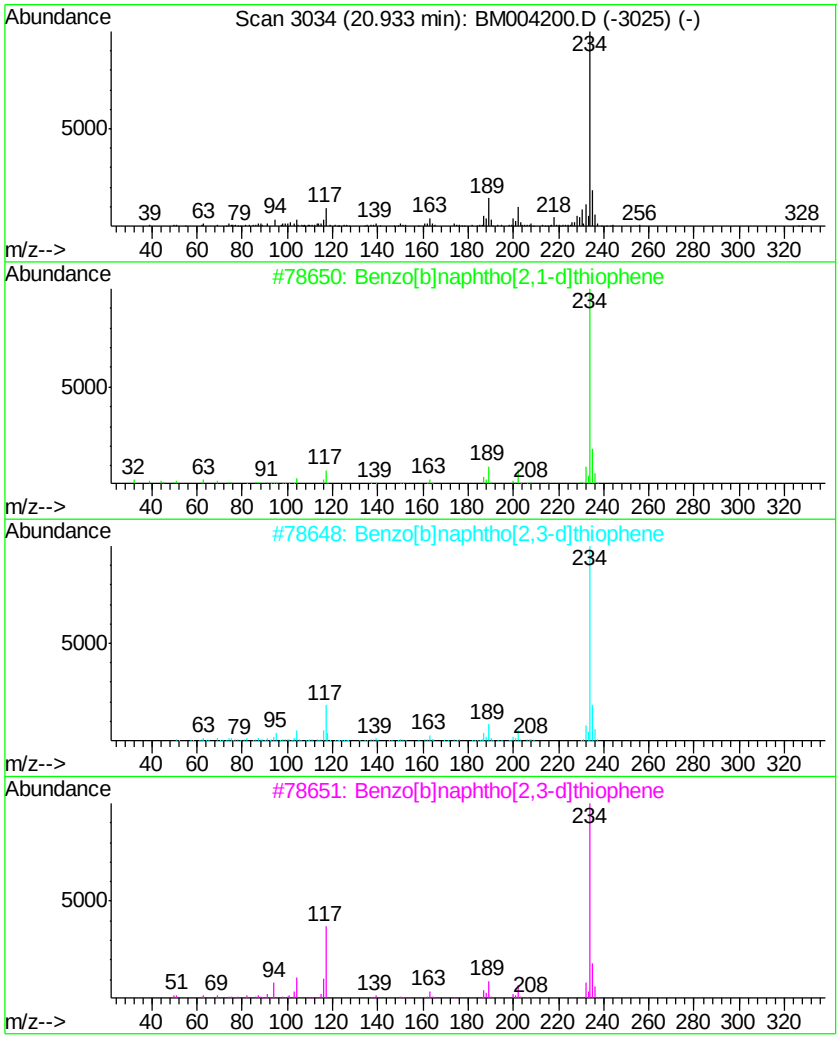
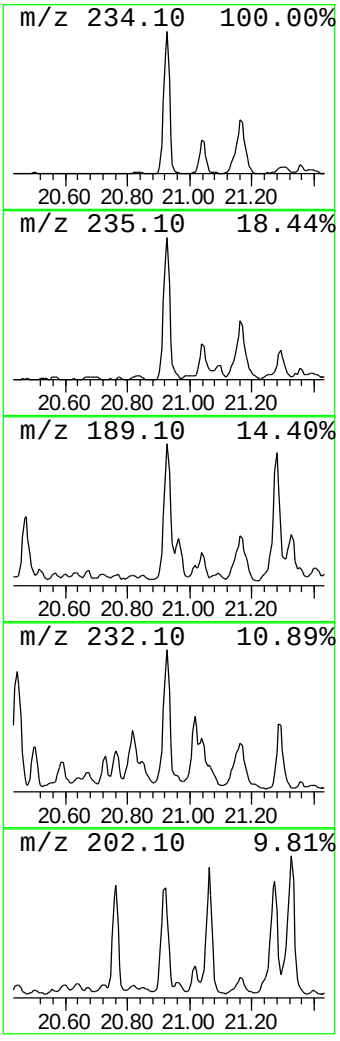
Peak Number 19 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 43

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.93	2.95 ng/ul	706695	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	96
2	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	93
3	Benzo[b]naphtho[2,3-d]thiophene	234	C16H10S	000243-46-9	91
4	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	91
5	Benzo[b]naphtho[2,1-d]thiophene	234	C16H10S	000239-35-0	90





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Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

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Quant Title : SVOA CALIBRATION

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

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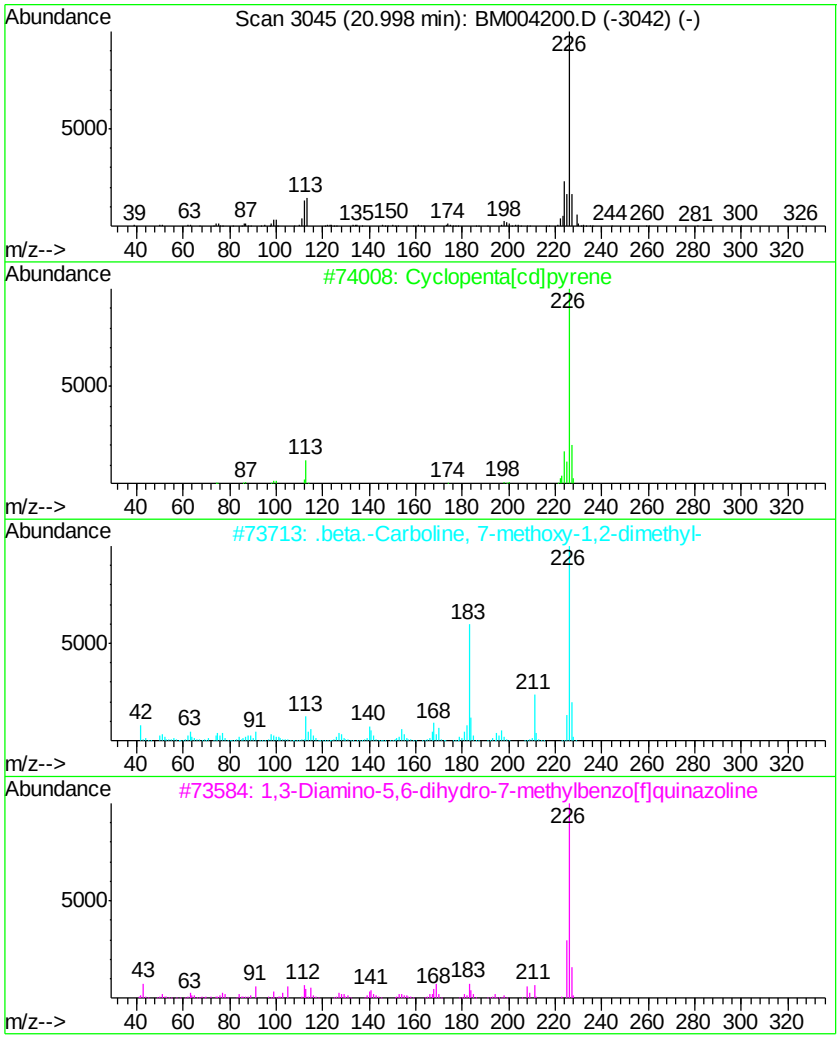
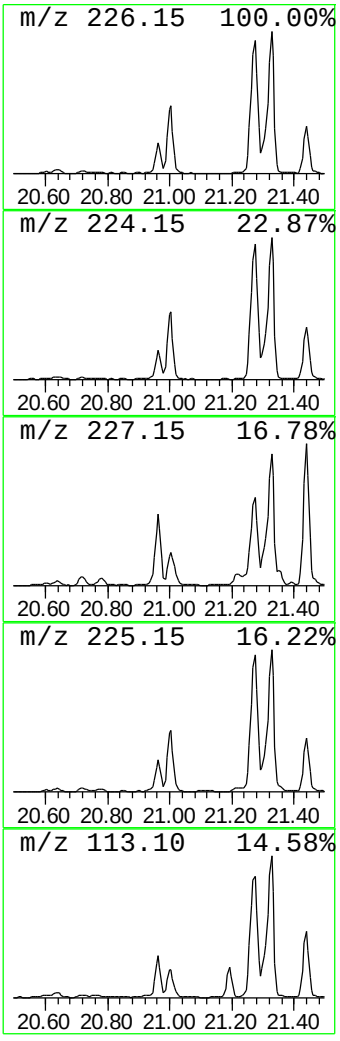
Peak Number 21 Cyclopenta[cd]pyrene Concentration Rank 44

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.00	2.86 ng/ul	684358	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta[cd]pyrene	226	C18H10	027208-37-3	64
2	.beta.-Carboline, 7-methoxy-1,2-...	226	C14H14N2O	006519-18-2	50
3	1,3-Diamino-5,6-dihydro-7-methyl...	226	C13H14N4	037436-37-6	47
4	p-Anisaldehyde phenylhydrazone	226	C14H14N2O	000622-73-1	43
5	Benzene, 1-bromo-2,6-dichloro-	224	C6H3BrCl2	019393-92-1	42





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM020816\
Data File : BM004200.D
Acq On : 08 Feb 2016 15:11
Operator : SJ/IZ
Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

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

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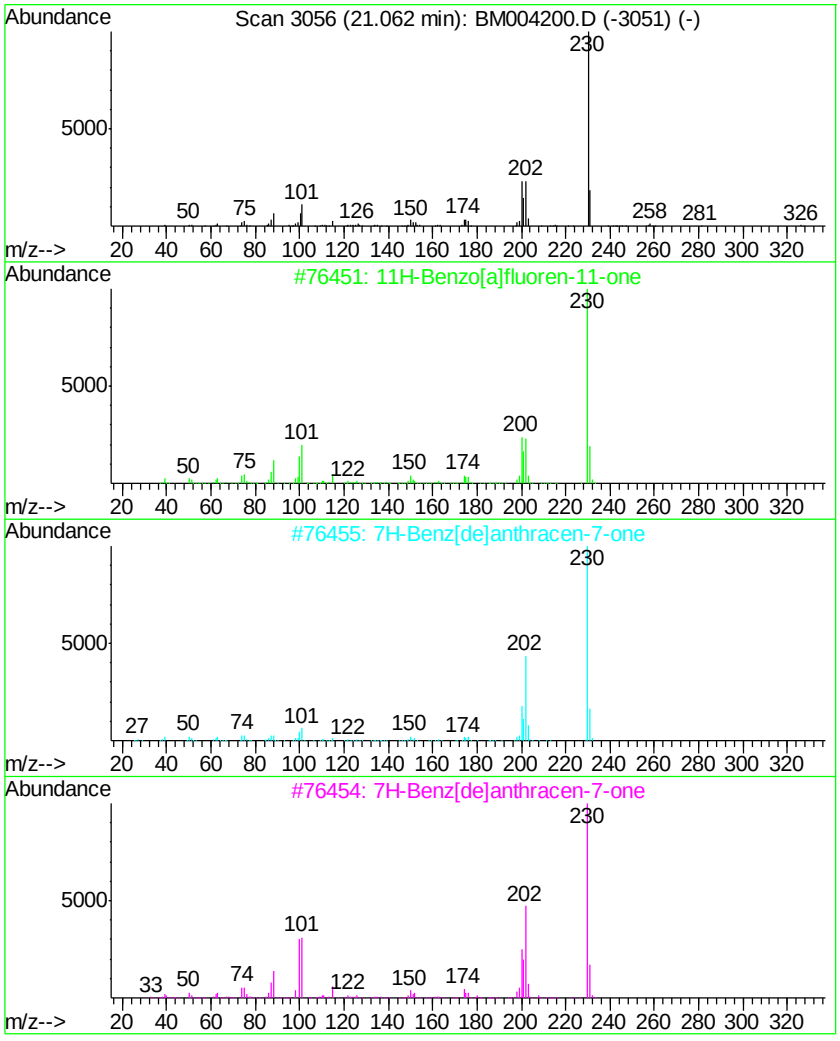
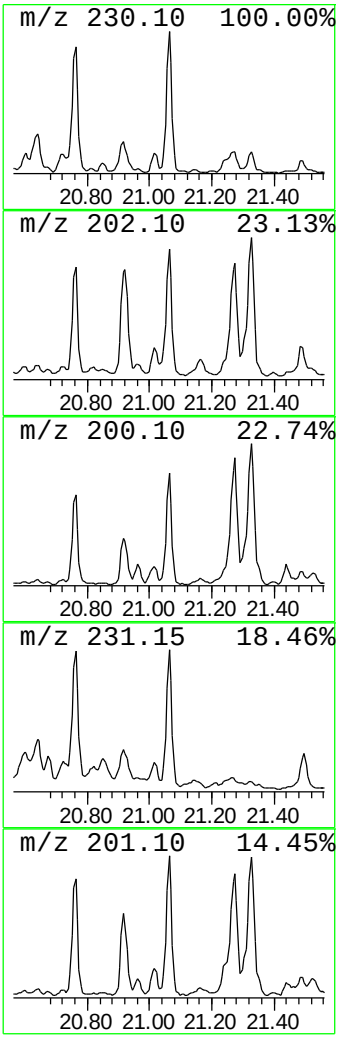
Peak Number 22 11H-Benzo[a]fluoren-11-one Concentration Rank 45

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.06	2.60 ng/ul	621123	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]fluoren-11-one	230	C17H10O	000479-79-8	94
2	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	90
3	7H-Benz[de]anthracen-7-one	230	C17H10O	000082-05-3	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	68





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Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

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Quant Title : SVOA CALIBRATION

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

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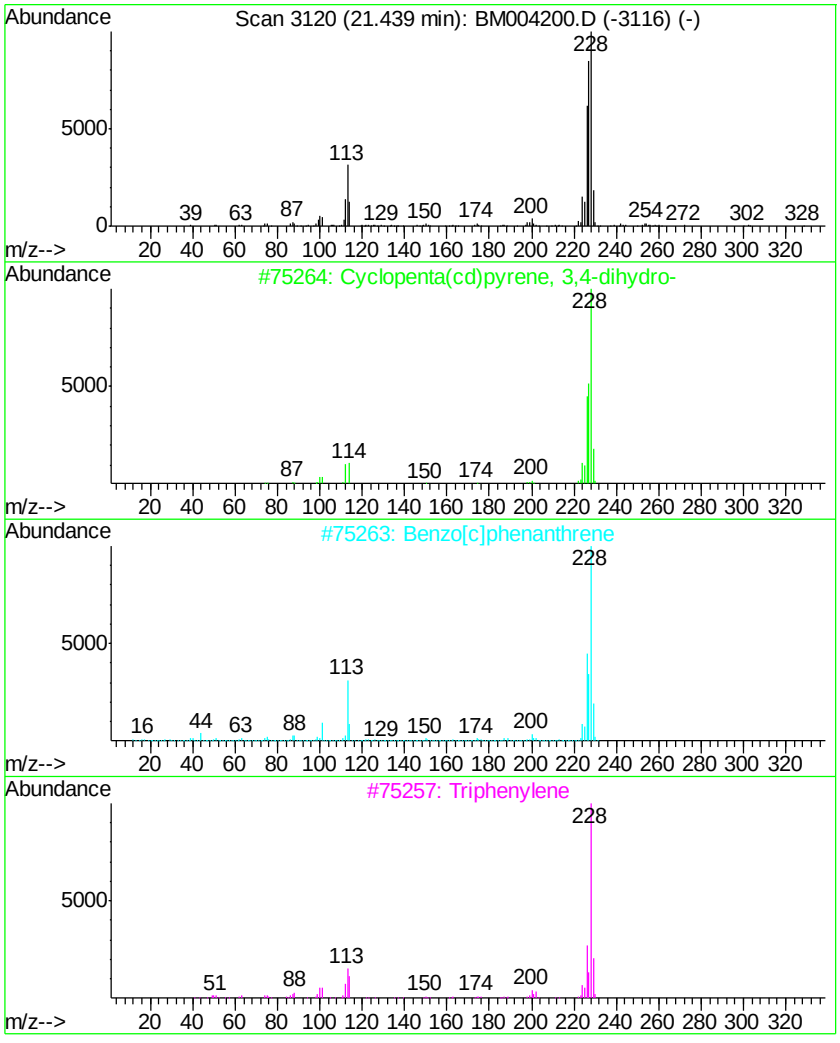
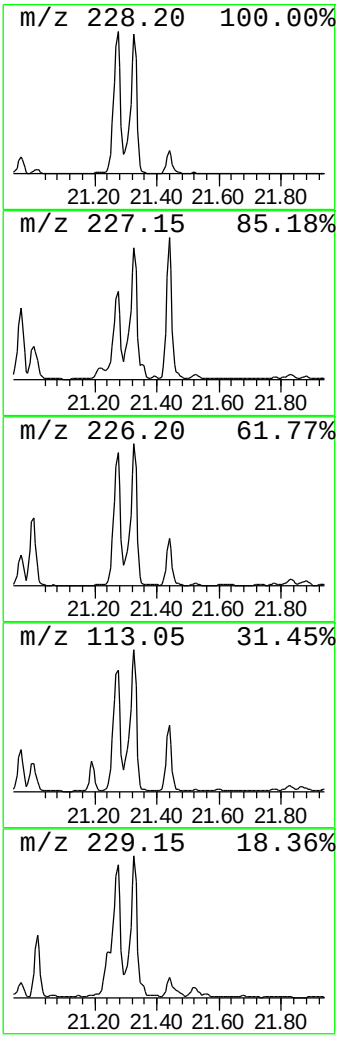
Peak Number 23 Cyclopenta(cd)pyrene, 3,4-d... Concentration Rank 41

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.44	3.19 ng/ul	764016	Chrysene-d12	21.29

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	Diphenylvinylphosphine oxide	228	C14H13OP	002096-78-8	47
5	Isothiazol-5-amine, 4-bromo-3-ch...	226	C4H4BrClN2S	1000272-59-9	47





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Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

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Quant Title : SVOA CALIBRATION

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

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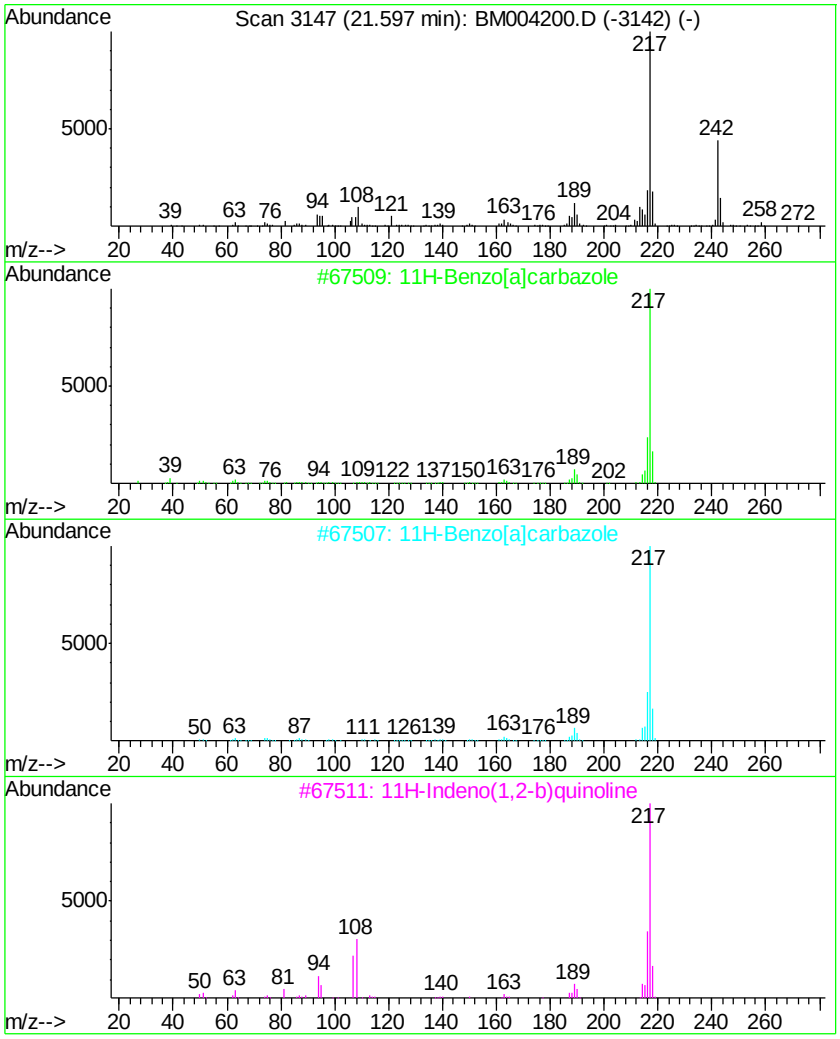
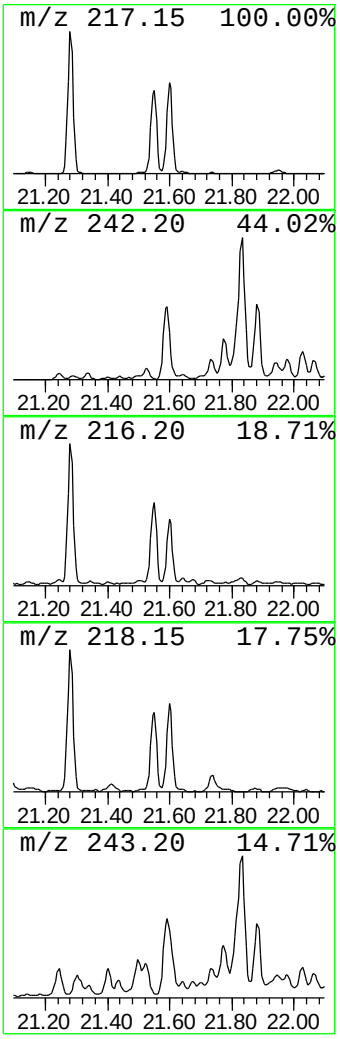
Peak Number 24 11H-Benzo[a]carbazole Concentration Rank 47

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.60	2.33 ng/ul	556275	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	90
2	11H-Benzo[a]carbazole	217	C16H11N	000239-01-0	78
3	11H-Indeno(1,2-b)quinoline	217	C16H11N	000243-51-6	70
4	Benzo(c)carbazole	217	C16H11N	034777-33-8	64
5	1-Aminopyrene	217	C16H11N	001606-67-3	64





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Acq On : 08 Feb 2016 15:11
Operator : SJ/IZ
Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

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

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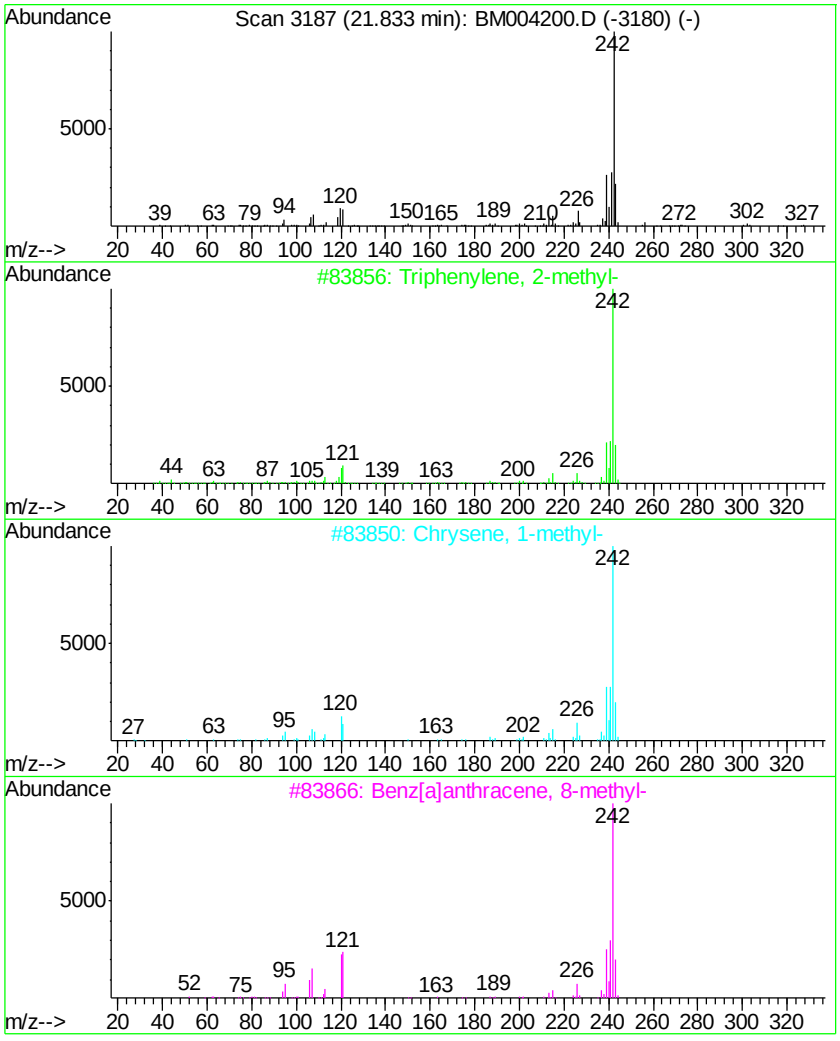
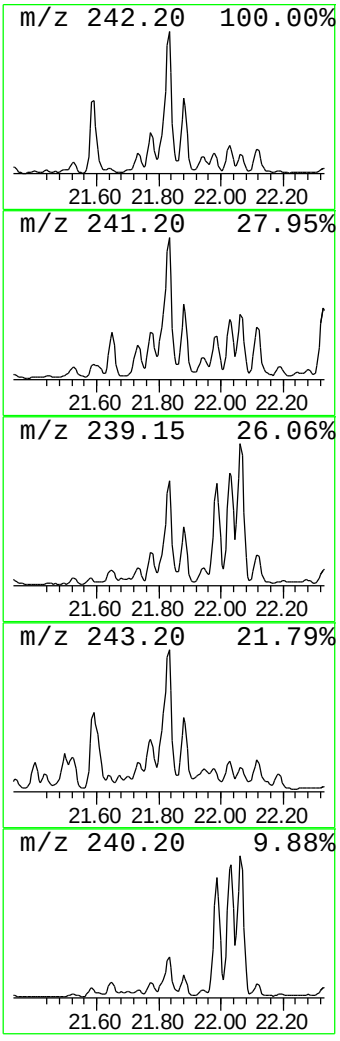
Peak Number 25 Triphenylene, 2-methyl- Concentration Rank 40

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.83	3.33 ng/ul	797447	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	99
2	Chrysene, 1-methyl-	242	C19H14	003351-28-8	98
3	Benz[a]anthracene, 8-methyl-	242	C19H14	002381-31-9	97
4	Chrysene, 6-methyl-	242	C19H14	001705-85-7	94
5	Benz[a]anthracene, 1-methyl-	242	C19H14	002498-77-3	93





Library Search Compound Report

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Data File : BM004200.D
Acq On : 08 Feb 2016 15:11
Operator : SJ/IZ
Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

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

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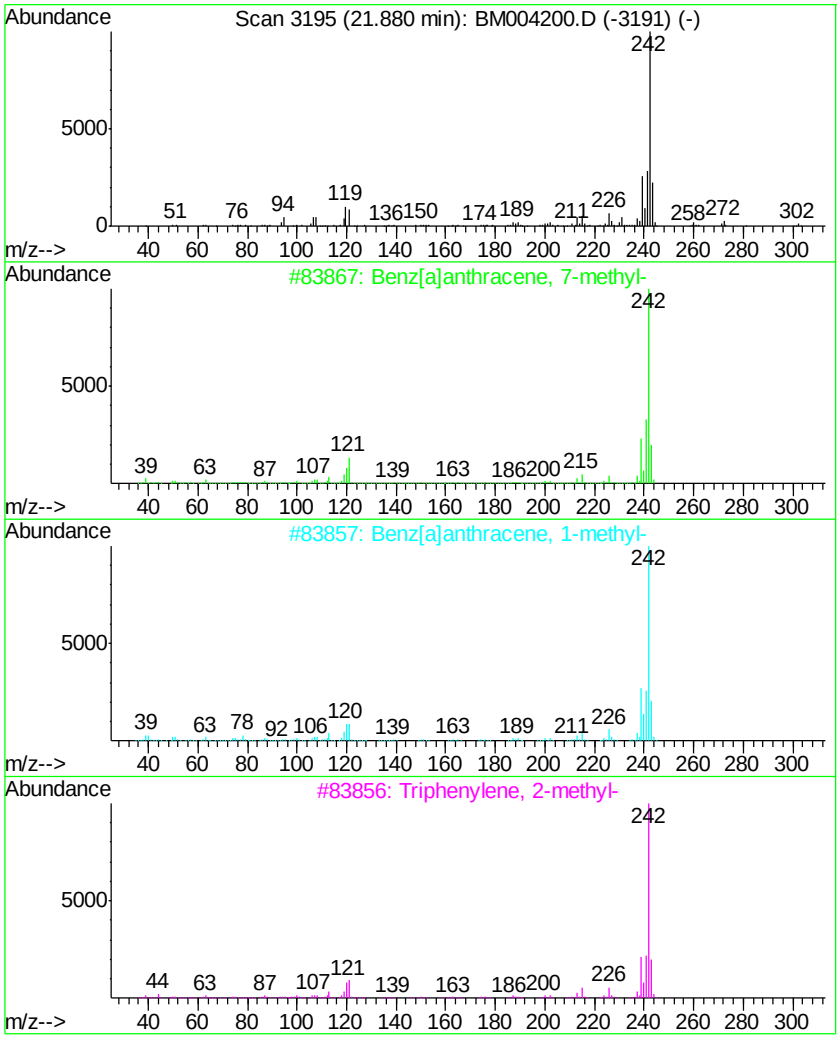
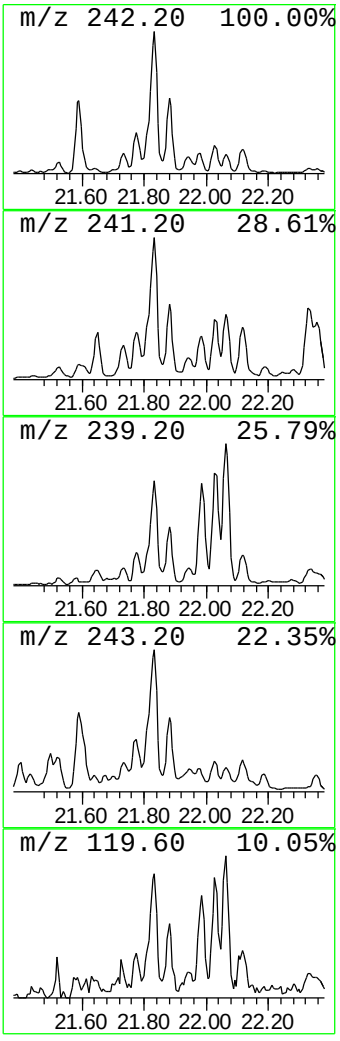
Peak Number 26 Benz[a]anthracene, 7-methyl- Concentration Rank 50

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.88	2.02 ng/ul	483021	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benz[a]anthracene, 7-methyl-	242	C19H14	002541-69-7	94
2	Benz[a]anthracene, 1-methyl-	242	C19H14	002498-77-3	93
3	Triphenylene, 2-methyl-	242	C19H14	001705-84-6	93
4	Benz[a]anthracene, 12-methyl-	242	C19H14	002422-79-9	91
5	Chrysene, 1-methyl-	242	C19H14	003351-28-8	89





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Acq On : 08 Feb 2016 15:11
Operator : SJ/IZ
Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

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

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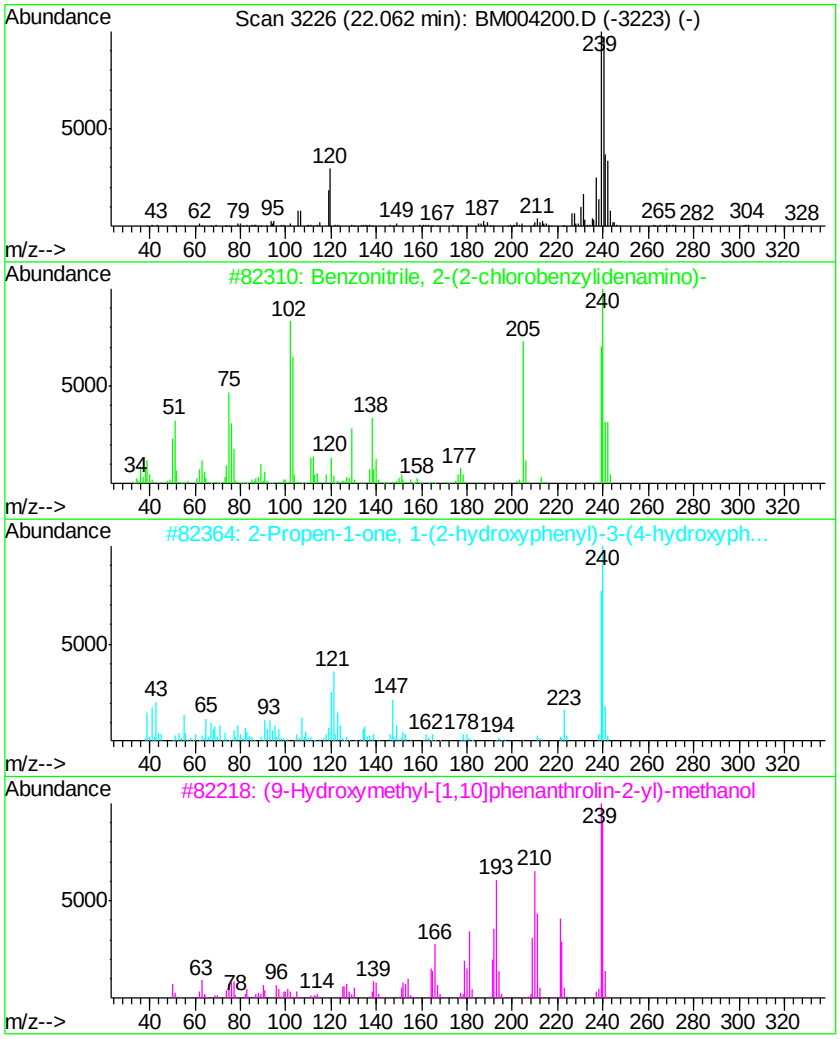
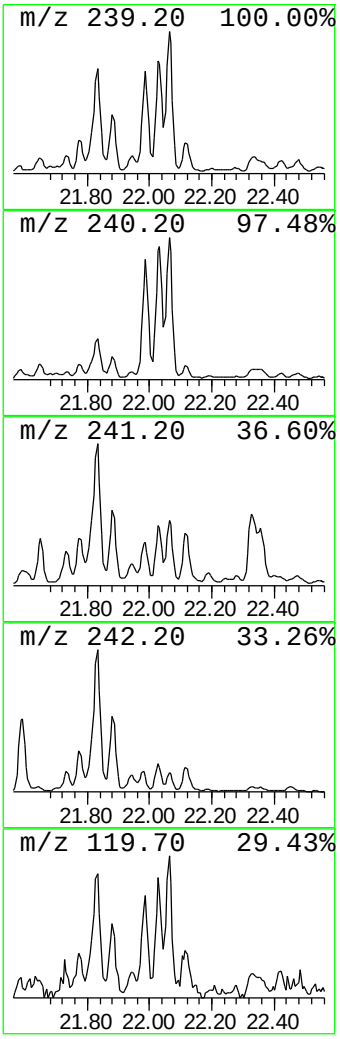
Peak Number 27 Benzonitrile, 2-(2-chlorobe... Concentration Rank 48

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.06	2.09 ng/ul	501035	Chrysene-d12	21.29

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzonitrile, 2-(2-chlorobenzyli...	240	C14H9ClN2	104830-19-5	64
2	2-Propen-1-one, 1-(2-hydroxyphen...	240	C15H12O3	013323-66-5	59
3	(9-Hydroxymethyl-[1,10]phenanthr...	240	C14H12N2O2	078831-36-4	52
4	o-(p-(Dimethylamino)benzylidenea...	240	C15H16N2O	023837-35-6	45
5	Cyclohexane, hexaethylidene-	240	C18H24	001482-93-5	38





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Acq On : 08 Feb 2016 15:11
Operator : SJ/IZ
Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

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

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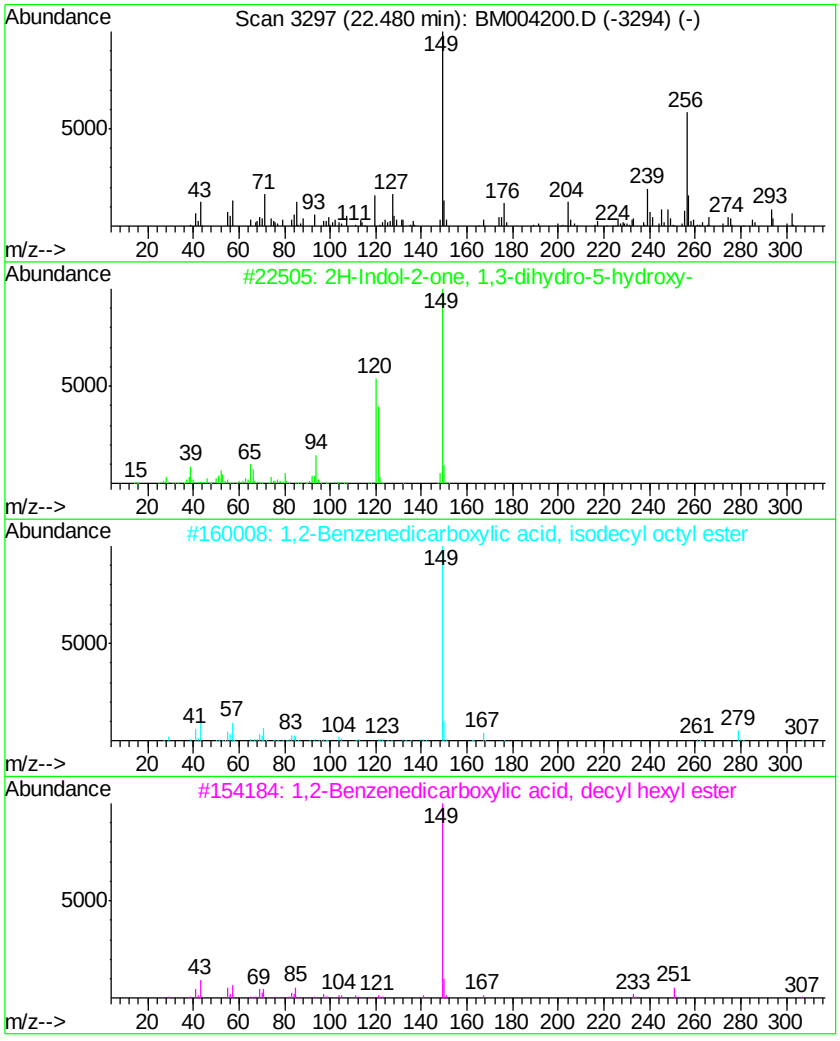
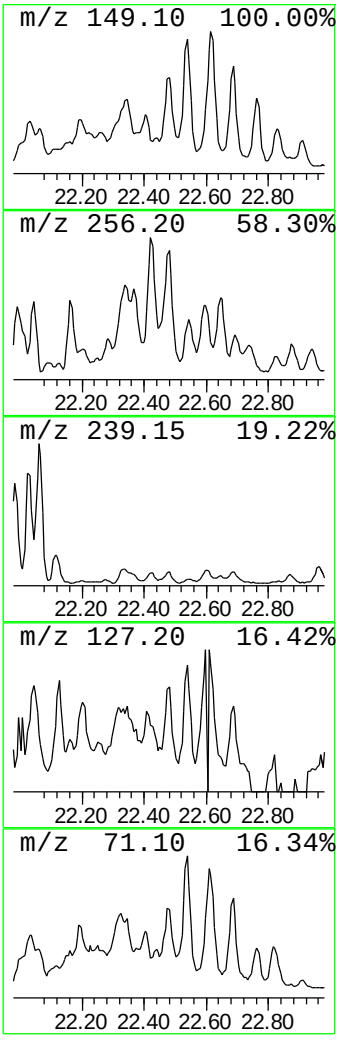
Peak Number 28 unknown-01 Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.48	4.84 ng/ul	134972	Perylene-d12	23.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2H-Indol-2-one, 1,3-dihydro-5-hy...	149	C8H7NO2	003416-18-0	38
2	1,2-Benzenedicarboxylic acid, is...	418	C26H42O4	001330-96-7	38
3	1,2-Benzenedicarboxylic acid, de...	390	C24H38O4	025724-58-7	35
4	2-Methyl-6-tert-octylphenol	220	C15H24O	019546-31-7	35
5	1,2-Benzenedicarboxylic acid, di...	362	C22H34O4	003648-21-3	35





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Acq On : 08 Feb 2016 15:11
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Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

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

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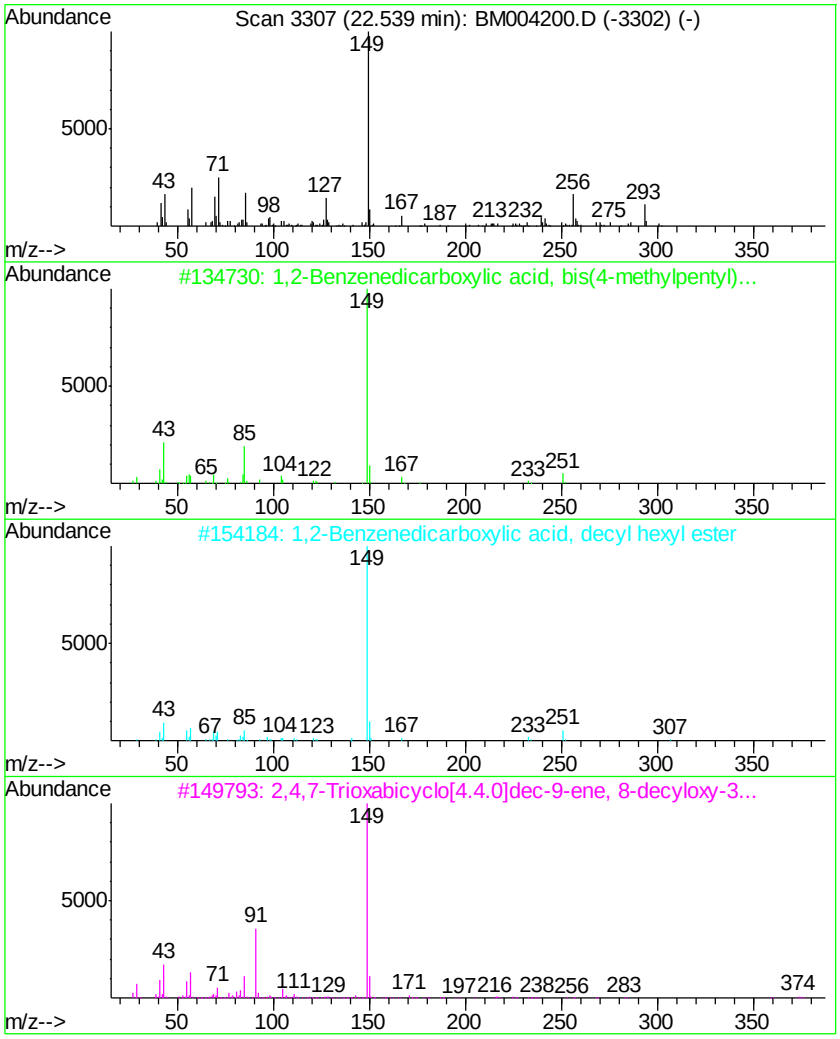
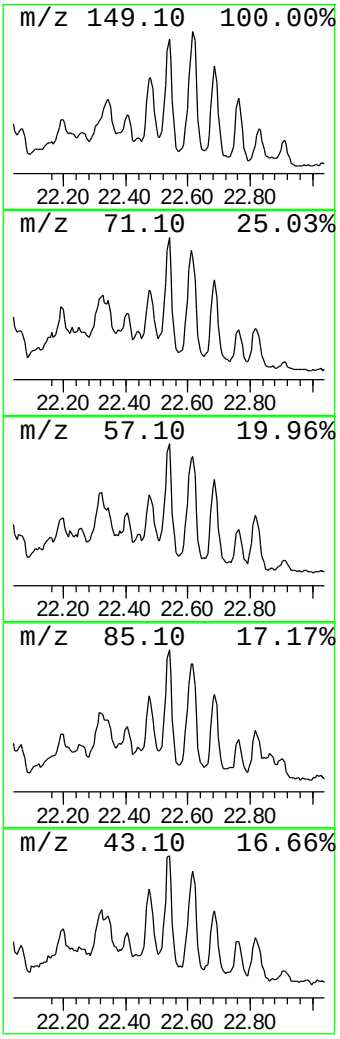
Peak Number 29 unknown-02 Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.54	4.74 ng/ul	132001	Perylene-d12	23.52

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Benzenedicarboxylic acid, bi...	334	C20H30O4	000146-50-9	47
2	1,2-Benzenedicarboxylic acid, de...	390	C24H38O4	025724-58-7	40
3	2,4,7-Trioxabicyclo[4.4.0]dec-9-...	374	C23H34O4	1000161-14-6	38
4	1,2-Benzenedicarboxylic acid, is...	418	C26H42O4	001330-96-7	38
5	2-Bromomethyl-2-phenyl[1,3]dioxo...	242	C10H11BrO2	003418-21-1	38





Tentatively Identified Compound (LSC) summary

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Data File : BM004200.D
Acq On : 08 Feb 2016 15:11
Operator : SJ/IZ
Sample : H1340-16 5X
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C04P4

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM012016.M
Quant Title : SVOA CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2,4,6-Cycloheptat...	15.81	5.8	ng/ul	129639	4	17.07	448376	20.0
9H-Fluorene, 2-me...	16.37	6.0	ng/ul	135074	4	17.07	448376	20.0
9H-Fluoren-9-one	16.73	6.4	ng/ul	143663	4	17.07	448376	20.0
Anthracene, 1,2,3...	16.82	6.4	ng/ul	144073	4	17.07	448376	20.0
Naphtho[2,3-b]thi...	16.89	10.5	ng/ul	234640	4	17.07	448376	20.0
Phenanthrene, 2-m...	17.94	17.8	ng/ul	397932	4	17.07	448376	20.0
Phenanthrene, 1-m...	17.99	25.1	ng/ul	562594	4	17.07	448376	20.0
Anthracene, 2-met...	18.07	10.2	ng/ul	229050	4	17.07	448376	20.0
4H-Cyclopenta[def...	18.14	38.9	ng/ul	872538	4	17.07	448376	20.0
2-Phenylnaphthalene	18.45	12.9	ng/ul	289688	4	17.07	448376	20.0
9,10-Anthracenedione	18.50	10.8	ng/ul	240932	4	17.07	448376	20.0
Phenanthrene, 2,5...	18.87	10.4	ng/ul	232441	4	17.07	448376	20.0
Cyclopenta(def)ph...	19.02	9.9	ng/ul	221416	4	17.07	448376	20.0
Pyrene, 1-methyl-	20.01	4.0	ng/ul	944597	5	21.29	4785140	20.0
11H-Benzo[a]fluorene	20.11	3.1	ng/ul	742025	5	21.29	4785140	20.0
Benzo[b]naphtho[2...	20.93	3.0	ng/ul	706695	5	21.29	4785140	20.0
Cyclopenta[cd]pyrene	21.00	2.9	ng/ul	684358	5	21.29	4785140	20.0
11H-Benzo[a]fluor...	21.06	2.6	ng/ul	621123	5	21.29	4785140	20.0
Cyclopenta(cd)pyr...	21.44	3.2	ng/ul	764016	5	21.29	4785140	20.0
11H-Benzo[a]carba...	21.60	2.3	ng/ul	556275	5	21.29	4785140	20.0
Triphenylene, 2-m...	21.83	3.3	ng/ul	797447	5	21.29	4785140	20.0
Benz[a]anthracene...	21.88	2.0	ng/ul	483021	5	21.29	4785140	20.0
Benzonitrile, 2-(...	22.06	2.1	ng/ul	501035	5	21.29	4785140	20.0
unknown-01	22.48	4.8	ng/ul	134972	6	23.52	557379	20.0
unknown-02	22.54	4.7	ng/ul	132001	6	23.52	557379	20.0