LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022373.D
Acq On : 27 Aug 2019 19:00
Operator : HP/JU
Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0AG7

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_M\METHODS\SOM-EPA-BM082219MA.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	3.810	135	140	151	rVB	77461	116859	0.74%	0.121%
2	7.540	769	774	786	rBB	108912	174491	1.11%	0.181%
3	10.310	1239	1245	1250	rBV	149970	256652	1.63%	0.266%
4	10.363	1250	1254	1266	rVB	65876	113137	0.72%	0.117%
5	13.892	1847	1854	1863	rBB	38685	62037	0.39%	0.064%
6	14.198	1899	1906	1911	rBV	258637	380941	2.42%	0.394%
7	14.263	1911	1917	1926	rVB	364844	505926	3.21%	0.524%
8	14.604	1970	1975	1983	rBV	174457	245195	1.56%	0.254%
9	15.198	2070	2076	2081	rBV	57189	77976	0.49%	0.081%
10	15.257	2081	2086	2096	rVB	372027	509161	3.23%	0.527%
11	15.551	2132	2136	2142	rVB	57960	74318	0.47%	0.077%
12	15.704	2152	2162	2170	rBV	63510	126578	0.80%	0.131%
13	16.263	2245	2257	2261	rBV3	58916	118587	0.75%	0.123%
14	16.633	2313	2320	2325	rVB	66049	94988	0.60%	0.098%
15	16.686	2325	2329	2336	rVV3	31668	74216	0.47%	0.077%
16	16.780	2340	2345	2356	rVB	276331	364230	2.31%	0.377%
17	16.963	2368	2376	2379	rBV	310939	483271	3.07%	0.500%
18	17.015	2379	2385	2390	rVV	8866816	10657305	67.62%	11.035%
19	17.098	2390	2399	2404	rVV	1406627	1949344	12.37%	2.018%
20	17.168	2407	2411	2418	rVB	110213	172357	1.09%	0.178%
21	17.386	2438	2448	2453	rBV2	494256	838776	5.32%	0.869%
22	17.480	2460	2464	2466	rBV	59458	83302	0.53%	0.086%
23	17.562	2471	2478	2484	rVB5	37941	89000	0.56%	0.092%
24	17.833	2519	2524	2528	rBV	363680	480605	3.05%	0.498%
25	17.886	2528	2533	2540	rVV	563338	796773	5.06%	0.825%
26	17.968	2542	2547	2552	rVB	192295	262178	1.66%	0.271%
27	18.033	2552	2558	2561	rBV3	802890	1210032	7.68%	1.253%
28	18.068	2561	2564	2573	rVB	332285	453429	2.88%	0.470%
29	18.157	2573	2579	2582	rBV2	46052	63596	0.40%	0.066%
30	18.204	2582	2587	2590	rBV	52127	67771	0.43%	0.070%
31	18.345	2605	2611	2617	rVV	342415	484485	3.07%	0.502%
32	18.409	2617	2622	2627	rVV	259975	338461	2.15%	0.350%
33	18.586	2647	2652	2658	rBV	105947	154599	0.98%	0.160%
34	18.639	2658	2661	2664	rVV	56350	62569	0.40%	0.065%

LSC Area Percent Report

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Acq On : 27 Aug 2019 19:00
Operator : HP/JU
Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0AG7

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_M\METHODS\SOM-EPA-BM082219MA.M
Title : SVOA CALIBRATION

35	18.680	2664	2668	2676	rVB2	61546	85745	0.54%	0.089%
36	18.762	2676	2682	2686	rBV	114698	201238	1.28%	0.208%
37	18.827	2686	2693	2695	rVV3	87149	169091	1.07%	0.175%
38	18.857	2695	2698	2702	rVB	121518	152195	0.97%	0.158%
39	18.927	2702	2710	2715	rVB2	117616	216021	1.37%	0.224%
40	19.051	2722	2731	2735	rBV	12529391	15761205	100.00%	16.320%
41	19.139	2742	2746	2752	rVB3	118389	180179	1.14%	0.187%
42	19.274	2759	2769	2773	rBV2	280006	439571	2.79%	0.455%
43	19.315	2773	2776	2781	rVB2	54231	83011	0.53%	0.086%
44	19.415	2781	2793	2799	rBV	9239418	13755411	87.27%	14.243%
45	19.474	2799	2803	2810	rVB3	283389	430744	2.73%	0.446%
46	19.586	2816	2822	2826	rVB	348508	467723	2.97%	0.484%
47	19.656	2826	2834	2840	rVB	251614	380418	2.41%	0.394%
48	19.721	2840	2845	2853	rBV2	280277	666800	4.23%	0.690%
49	19.798	2853	2858	2863	rBV	130159	216335	1.37%	0.224%
50	19.862	2863	2869	2871	rBV4	198601	343451	2.18%	0.356%
51	19.904	2871	2876	2881	rVB	935860	1257718	7.98%	1.302%
52	19.962	2881	2886	2888	rBV5	44060	74957	0.48%	0.078%
53	20.003	2888	2893	2896	rBV	757273	935793	5.94%	0.969%
54	20.056	2896	2902	2906	rVV3	332099	609966	3.87%	0.632%
55	20.092	2906	2908	2912	rVB	205060	220364	1.40%	0.228%
56	20.139	2912	2916	2921	rVB2	126290	163160	1.04%	0.169%
57	20.198	2921	2926	2929	rBV	170541	224440	1.42%	0.232%
58	20.245	2929	2934	2938	rBV2	193863	257311	1.63%	0.266%
59	20.339	2947	2950	2953	rBV3	61679	84314	0.53%	0.087%
60	20.374	2953	2956	2962	rVB4	52709	88827	0.56%	0.092%
61	20.492	2973	2976	2979	rVB3	57254	60421	0.38%	0.063%
62	20.533	2979	2983	2986	rBV2	100453	137985	0.88%	0.143%
63	20.615	2992	2997	3001	rBV3	82896	157500	1.00%	0.163%
64	20.662	3001	3005	3010	rVV	225885	267051	1.69%	0.277%
65	20.821	3027	3032	3035	rBV	477743	604124	3.83%	0.626%
66	20.856	3035	3038	3041	rVV	491931	596093	3.78%	0.617%
67	20.898	3041	3045	3050	rVV2	326144	656221	4.16%	0.679%
68	20.968	3053	3057	3065	rVB	277524	396364	2.51%	0.410%
69	21.062	3065	3073	3080	rBV	160857	456086	2.89%	0.472%
70	21.168	3081	3091	3096	rBV	4211985	6748097	42.81%	6.987%
71	21.221	3096	3100	3104	rVB	3528091	3911698	24.82%	4.050%

LSC Area Percent Report

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Acq On : 27 Aug 2019 19:00
Operator : HP/JU
Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0AG7

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_M\METHODS\SOM-EPA-BM082219MA.M
Title : SVOA CALIBRATION

72	21.327	3114	3118	3122	rBV	608121	743510	4.72%	0.770%
73	21.392	3125	3129	3132	rVV2	126245	167476	1.06%	0.173%
74	21.450	3136	3139	3142	rVV	165349	205054	1.30%	0.212%
75	21.503	3142	3148	3151	rVB2	253217	417844	2.65%	0.433%
76	21.621	3164	3168	3172	rBV2	65858	94120	0.60%	0.097%
77	21.662	3172	3175	3178	rVV2	121437	199606	1.27%	0.207%
78	21.715	3180	3184	3188	rVV	427138	625586	3.97%	0.648%
79	21.768	3188	3193	3197	rVV2	207944	357710	2.27%	0.370%
80	21.833	3201	3204	3207	rVV	138564	204181	1.30%	0.211%
81	21.868	3207	3210	3214	rVV2	207201	309057	1.96%	0.320%
82	21.909	3214	3217	3220	rVV	226321	342295	2.17%	0.354%
83	21.945	3220	3223	3228	rVV2	263811	385234	2.44%	0.399%
84	22.003	3228	3233	3238	rVB2	141363	292935	1.86%	0.303%
85	22.209	3264	3268	3272	rBV2	196643	286967	1.82%	0.297%
86	22.474	3309	3313	3318	rBV2	163193	259598	1.65%	0.269%
87	22.727	3348	3356	3360	rBV	2169916	4831788	30.66%	5.003%
88	22.880	3377	3382	3388	rBV	361147	575567	3.65%	0.596%
89	23.009	3400	3404	3406	rBV3	106943	176224	1.12%	0.182%
90	23.086	3413	3417	3420	rBV2	82203	151804	0.96%	0.157%
91	23.186	3427	3434	3443	rVB	1164532	2064034	13.10%	2.137%
92	23.280	3443	3450	3458	rVB	2043854	3526101	22.37%	3.651%
93	23.368	3460	3465	3468	rBV	271296	436463	2.77%	0.452%
94	23.415	3468	3473	3480	rVB	498099	959538	6.09%	0.994%
95	24.209	3604	3608	3619	rVB	127367	276026	1.75%	0.286%
96	25.562	3827	3838	3846	rVB2	886627	2264423	14.37%	2.345%
97	25.803	3872	3879	3885	rVB	156421	377250	2.39%	0.391%
98	25.885	3889	3893	3899	rVB	89487	194138	1.23%	0.201%
99	26.233	3942	3952	3970	rVB	636504	1884083	11.95%	1.951%
100	26.585	4005	4012	4025	rVB	179283	567170	3.60%	0.587%

Sum of corrected areas: 96576555

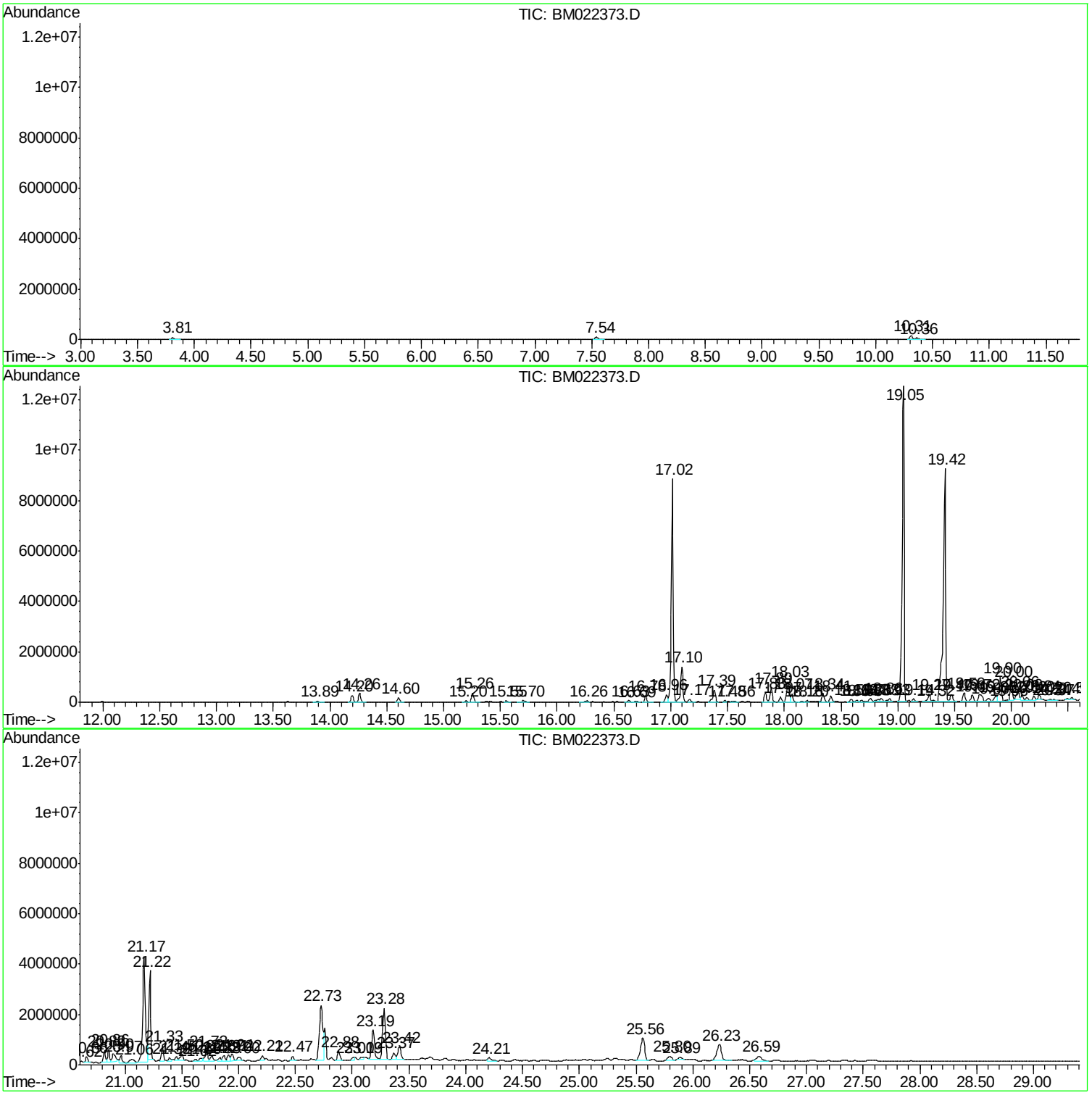
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022373.D
Acq On : 27 Aug 2019 19:00
Operator : HP/JU
Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AG7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022373.D
Acq On : 27 Aug 2019 19:00
Operator : HP/JU
Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0AG7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

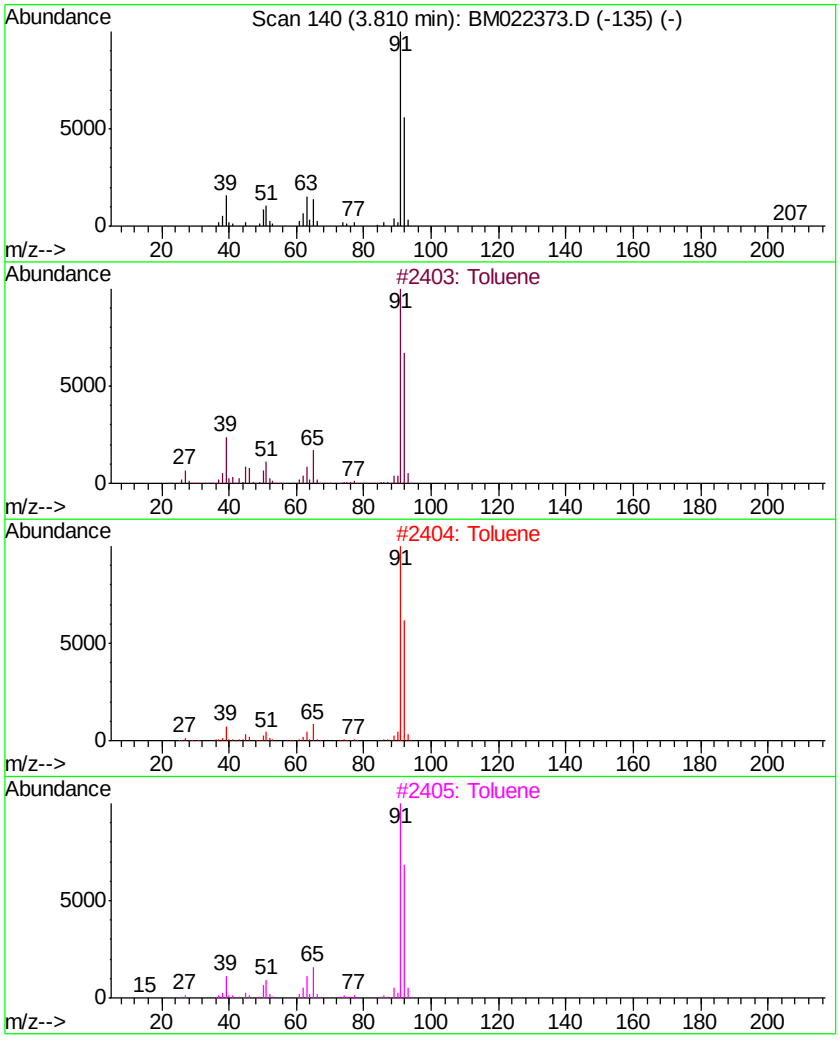
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

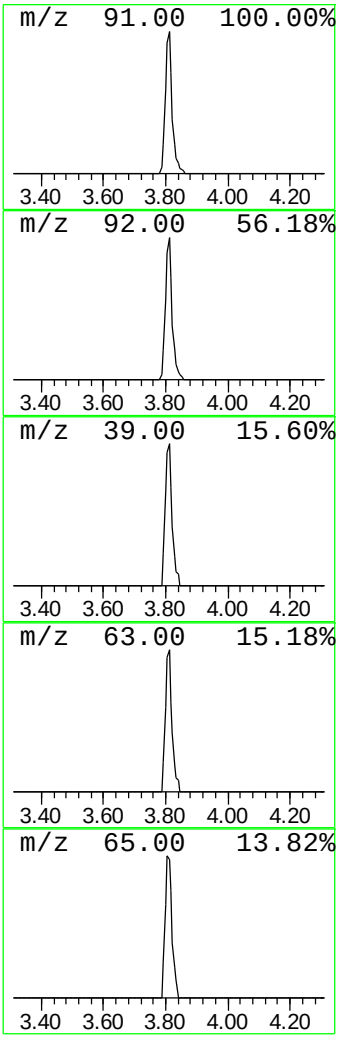
****

Peak Number 1 Toluene Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.81	13.39 ng/ul	116859	1,4-Dichlorobenzene-d4	7.54

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Toluene	92	C7H8	000108-88-3	90
2	Toluene	92	C7H8	000108-88-3	86
3	Toluene	92	C7H8	000108-88-3	83
4	Toluene	92	C7H8	000108-88-3	83
5	1,3,5-Cycloheptatriene	92	C7H8	000544-25-2	74





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022373.D
Acq On : 27 Aug 2019 19:00
Operator : HP/JU
Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0AG7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

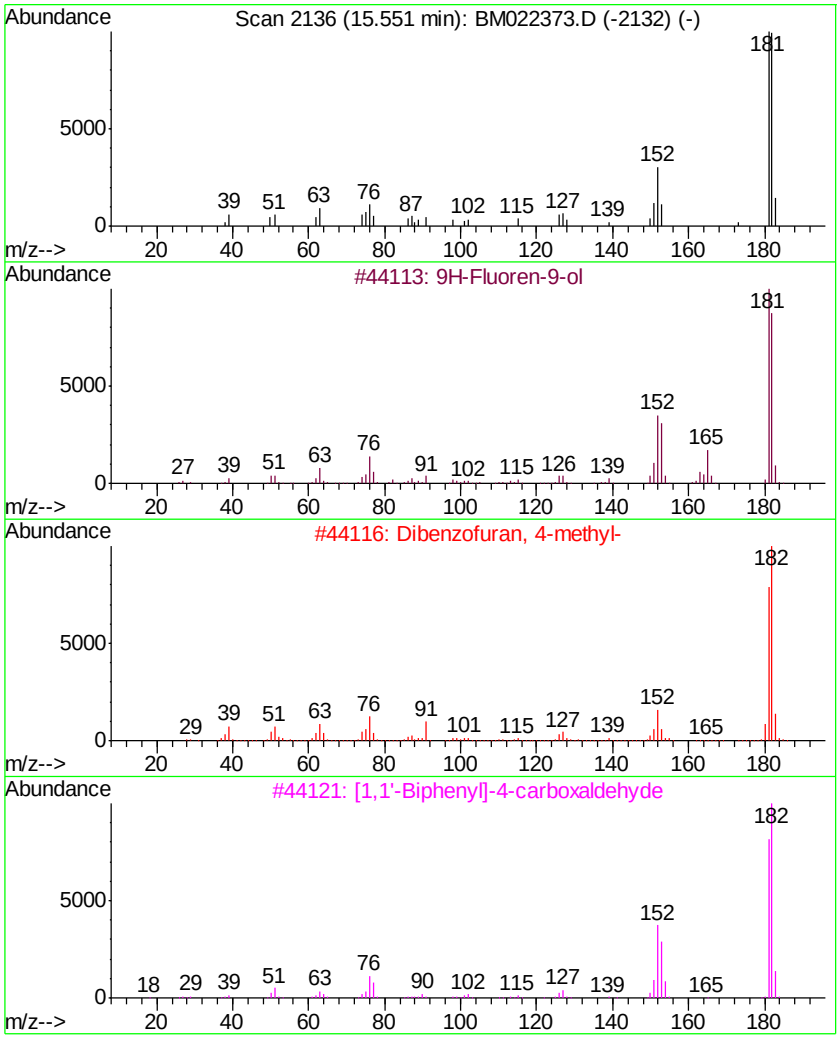
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

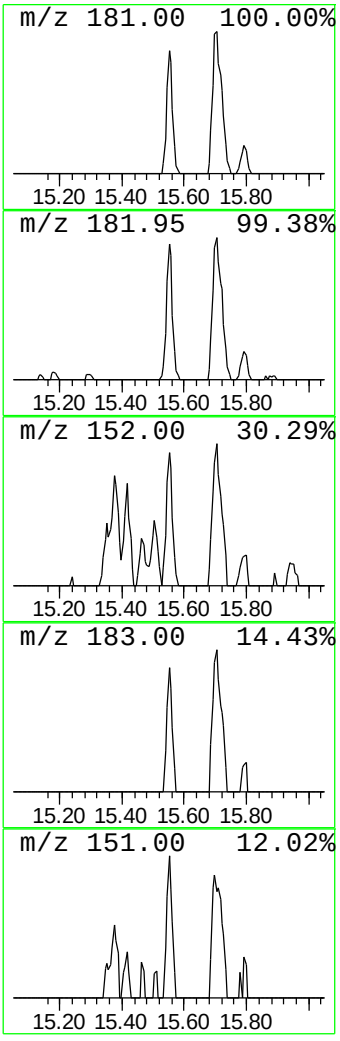
****

Peak Number 2 9H-Fluoren-9-ol Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.55	3.90 ng/ul	74318	Acenaphthene-d10	14.20

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	91
2	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	91
3	[1,1'-Biphenyl]-4-carboxaldehyde	182	C13H10O	003218-36-8	83
4	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	80
5	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	78





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022373.D
Acq On : 27 Aug 2019 19:00
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Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0AG7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

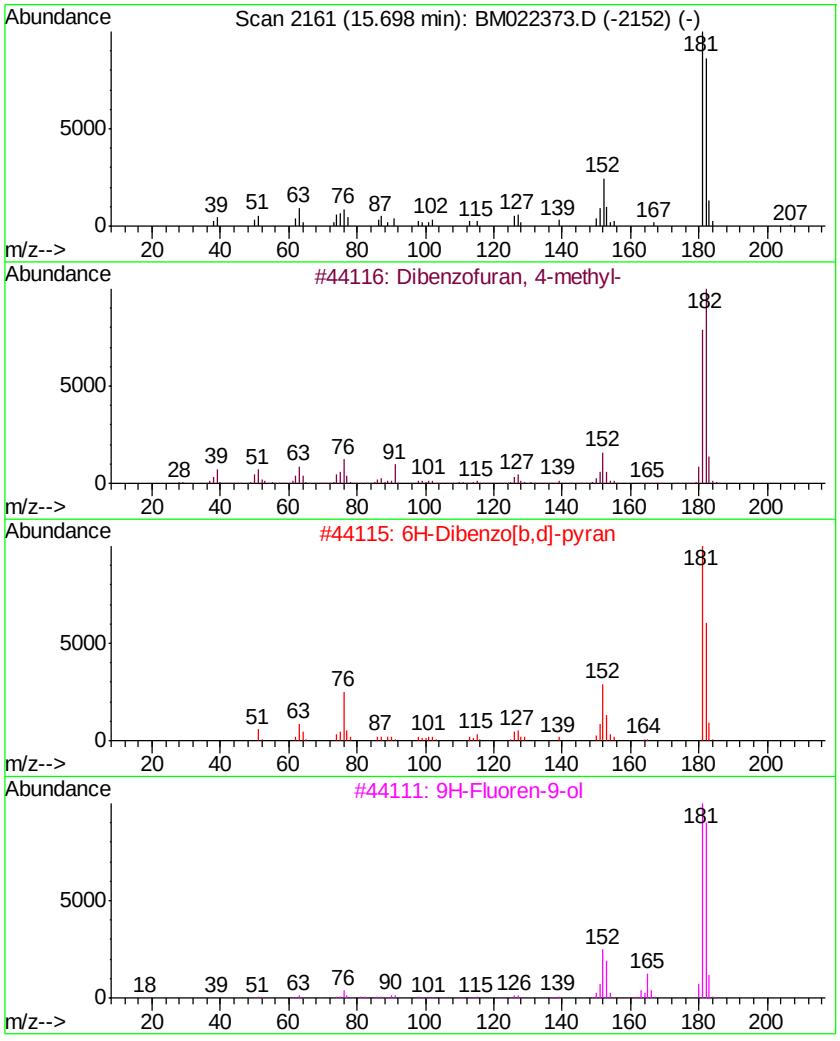
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

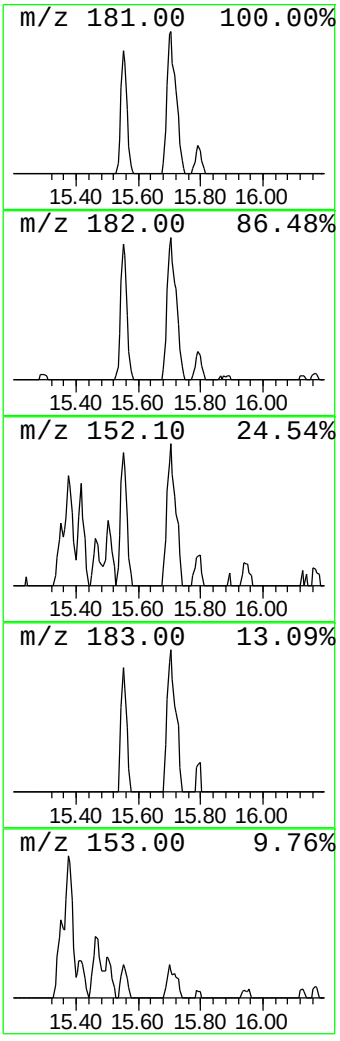
****

Peak Number 3 Dibenzofuran, 4-methyl- Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.70	5.24 ng/ul	126578	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzofuran, 4-methyl-	182	C13H10O	007320-53-8	94
2	6H-Dibenzo[b,d]-pyran	182	C13H10O	000229-95-8	91
3	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	90
4	9H-Fluoren-9-ol	182	C13H10O	001689-64-1	90
5	2,4,6-Cycloheptatrien-1-one, 2-p...	182	C13H10O	014562-09-5	90





Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022373.D
Acq On : 27 Aug 2019 19:00
Operator : HP/JU
Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0AG7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

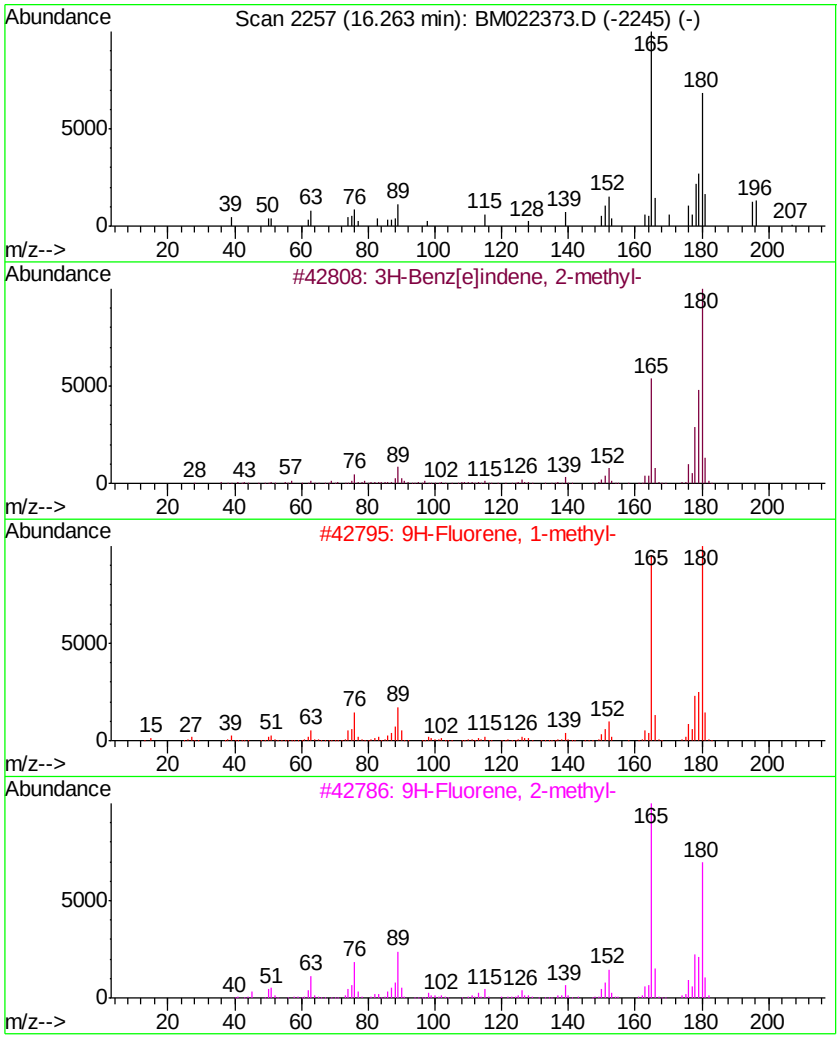
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

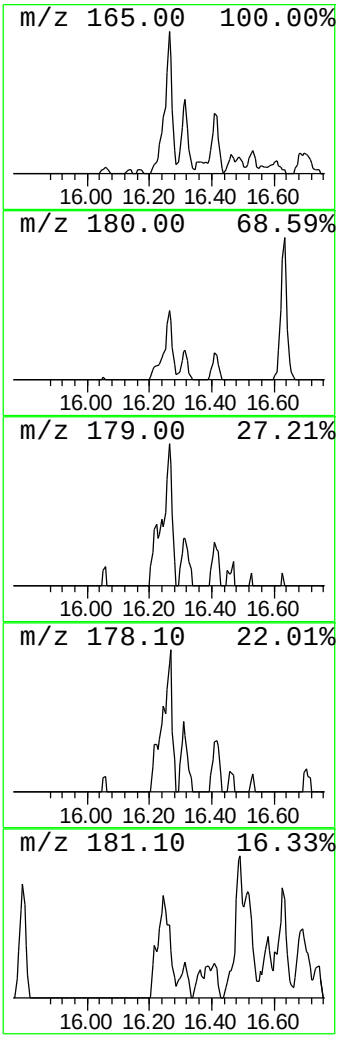
****

Peak Number 4 3H-Benz[e]indene, 2-methyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.26	4.91 ng/ul	118587	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3H-Benz[e]indene, 2-methyl-	180	C14H12	150096-60-9	95
2	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	93
3	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	93
4	9H-Fluorene, 2-methyl-	180	C14H12	001430-97-3	92
5	9H-Fluorene, 1-methyl-	180	C14H12	001730-37-6	89





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022373.D
Acq On : 27 Aug 2019 19:00
Operator : HP/JU
Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0AG7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

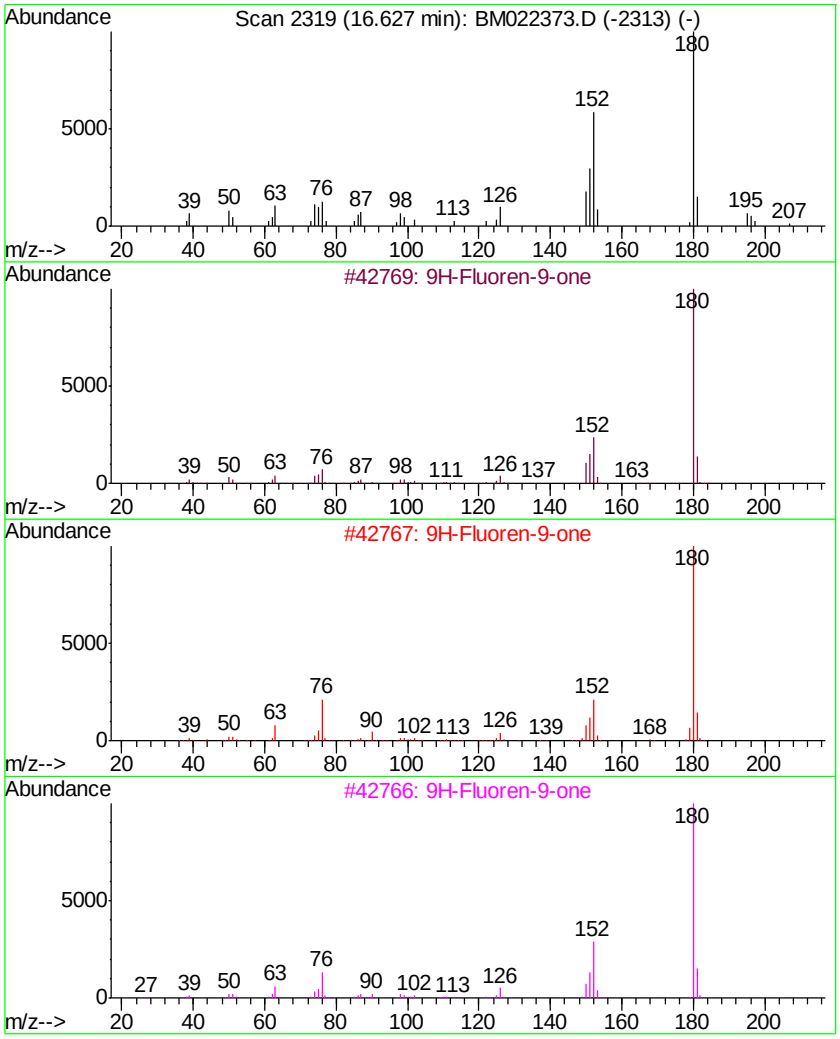
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

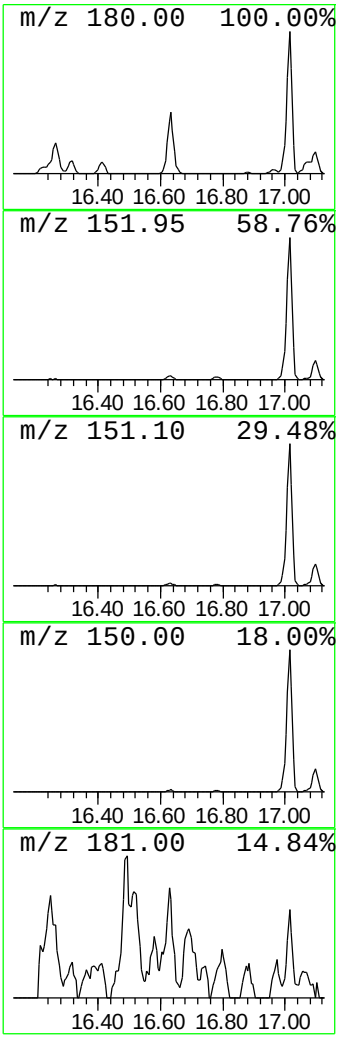
****

Peak Number 5 9H-Fluoren-9-one Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.63	3.93 ng/ul	94988	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9H-Fluoren-9-one	180	C13H8O	000486-25-9	93
2	9H-Fluoren-9-one	180	C13H8O	000486-25-9	91
3	9H-Fluoren-9-one	180	C13H8O	000486-25-9	91
4	Benzo[h]cinnoline	180	C12H8N2	000230-31-9	90
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	80





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Acq On : 27 Aug 2019 19:00
Operator : HP/JU
Sample : K4242-02 5X
Misc :
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Instrument : BNA_M
ClientSampleId : C0AG7

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Quant Title : SVOA CALIBRATION

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

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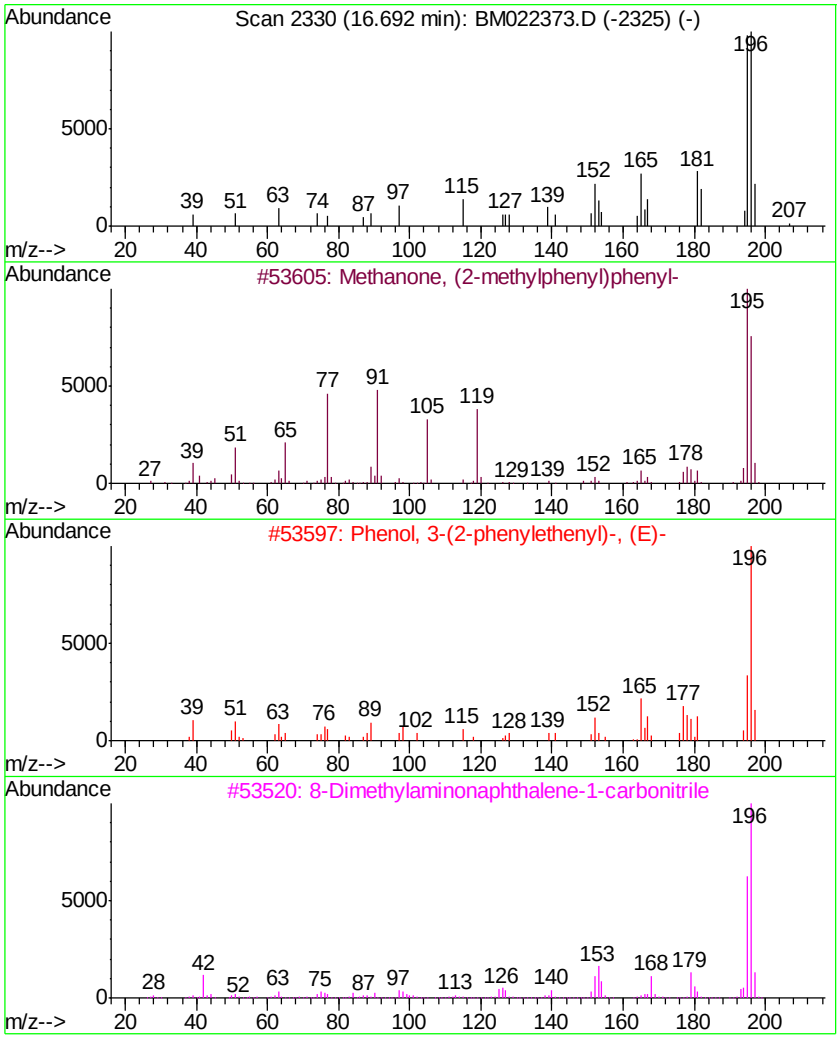
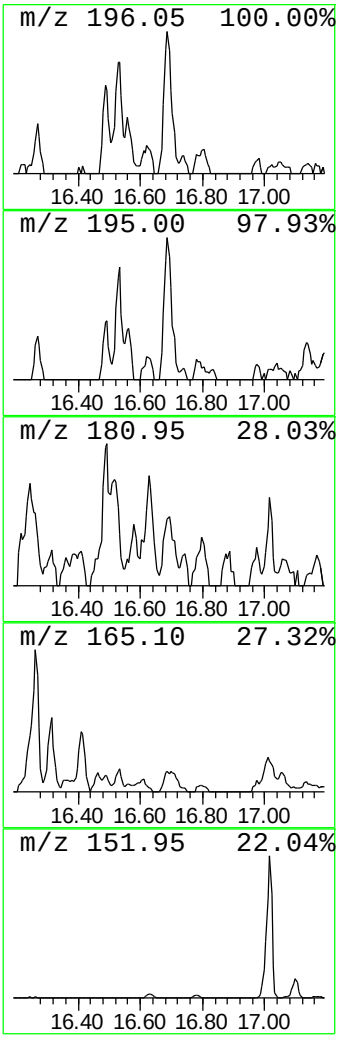
Peak Number 6 Methanone, (2-methylphenyl)... Concentration Rank 32

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.69	3.07 ng/ul	74216	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methanone, (2-methylphenyl)phenyl-	196	C14H12O	000131-58-8	58
2	Phenol, 3-(2-phenylethenyl)-, (E)-	196	C14H12O	017861-18-6	52
3	8-Dimethylaminonaphthalene-1-car...	196	C13H12N2	128644-69-9	49
4	Naphtho[2,1-b]furan, 1,2-dimethyl-	196	C14H12O	129812-23-3	47
5	Phenol, 4-(2-phenylethenyl)-, (E)-	196	C14H12O	006554-98-9	46





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Quant Title : SVOA CALIBRATION

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

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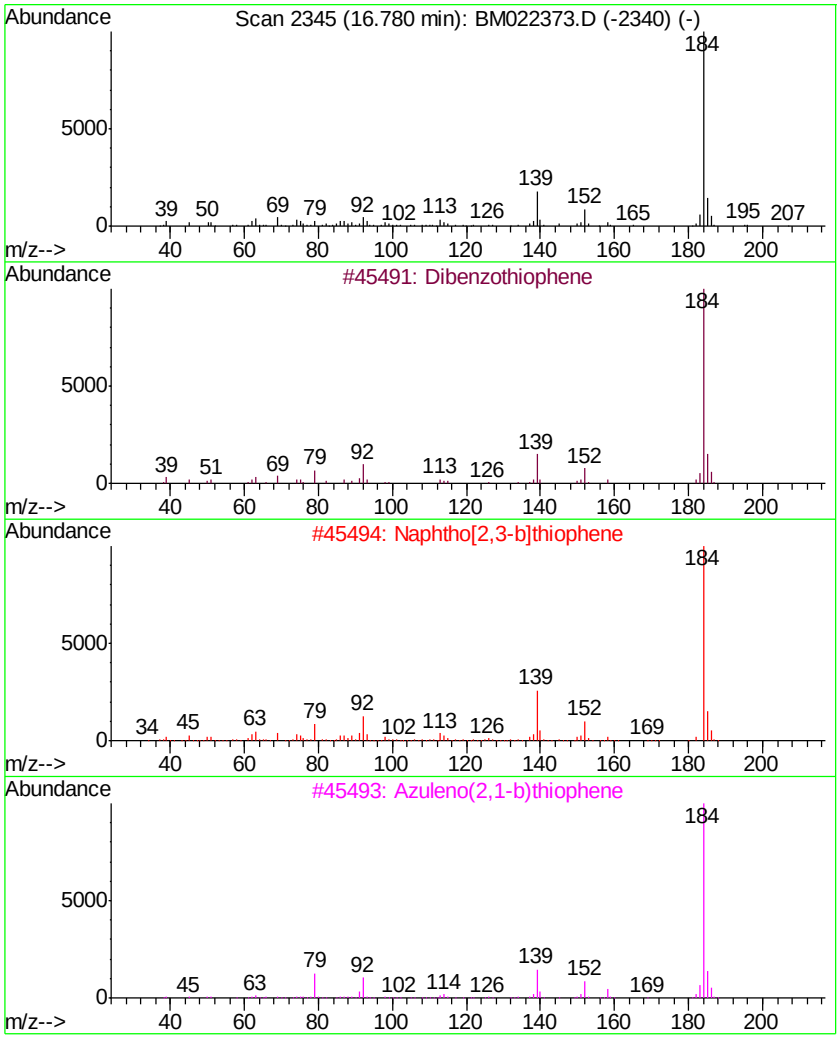
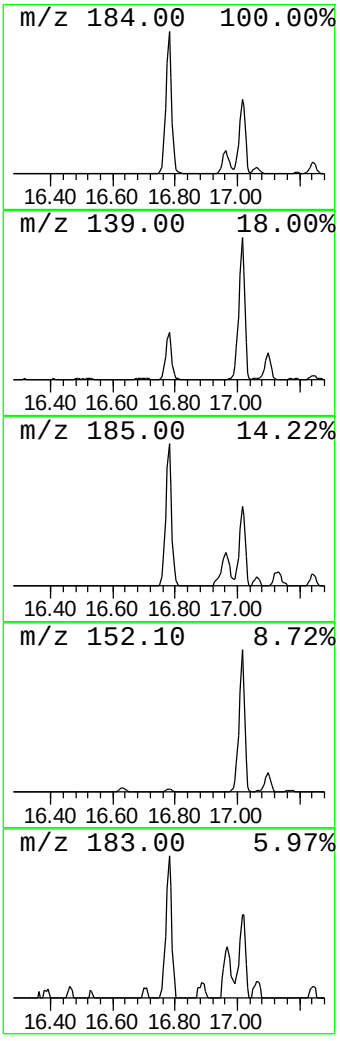
Peak Number 7 Dibenzothiophene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.78	15.07 ng/ul	364230	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	97
2	Naphtho[2,3-b]thiophene	184	C12H8S	000268-77-9	95
3	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	90
4	Dibenzothiophene	184	C12H8S	000132-65-0	90
5	Dibenzothiophene	184	C12H8S	000132-65-0	87





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Quant Title : SVOA CALIBRATION

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

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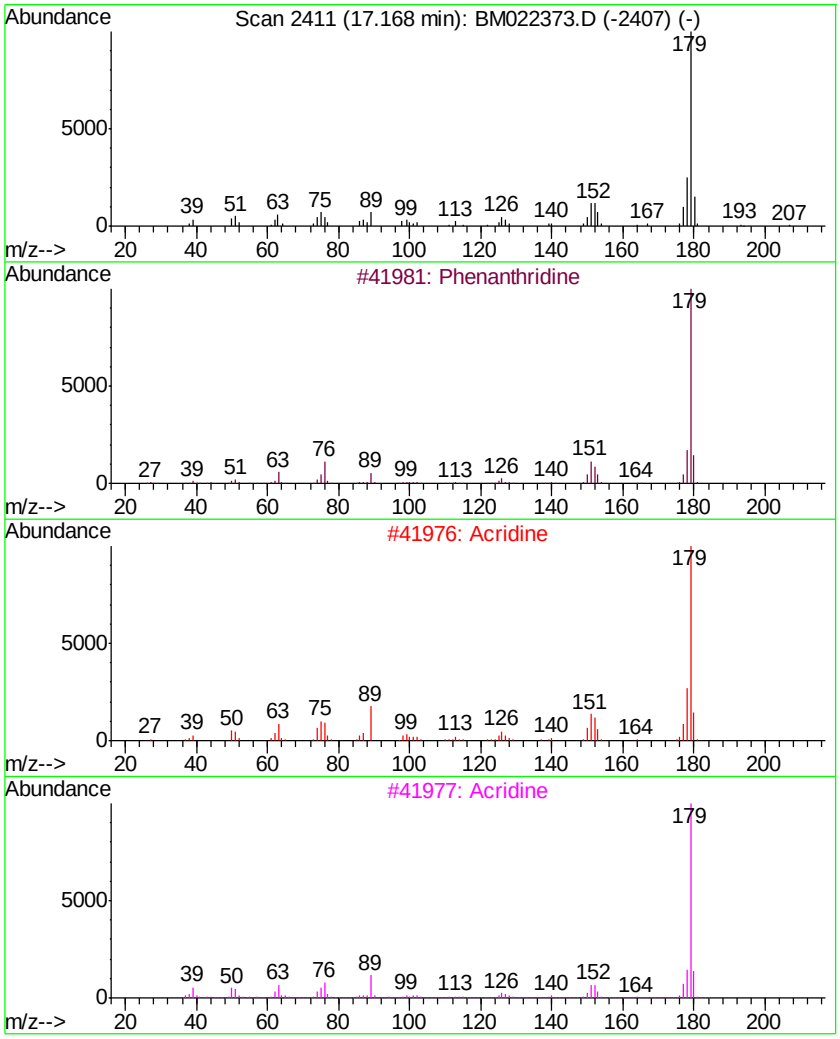
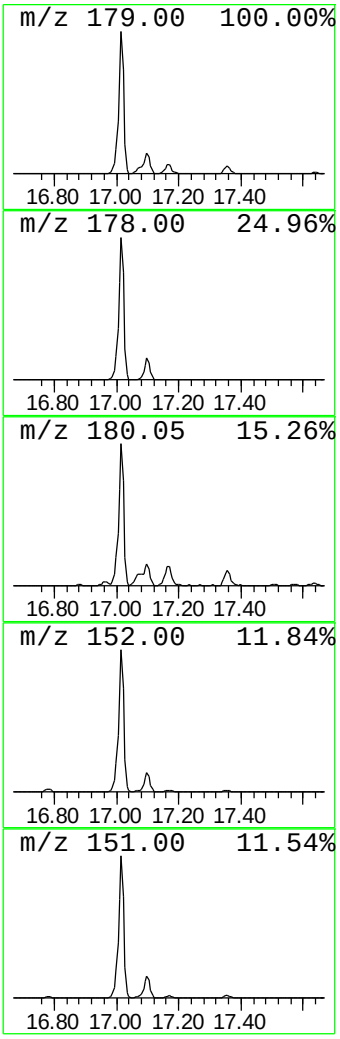
Peak Number 8 Phenanthridine Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.17	7.13 ng/ul	172357	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthridine	179	C13H9N	000229-87-8	94
2	Acridine	179	C13H9N	000260-94-6	94
3	Acridine	179	C13H9N	000260-94-6	93
4	Benzo[f]quinoline	179	C13H9N	000085-02-9	91
5	Acridine	179	C13H9N	000260-94-6	91





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Quant Title : SVOA CALIBRATION

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

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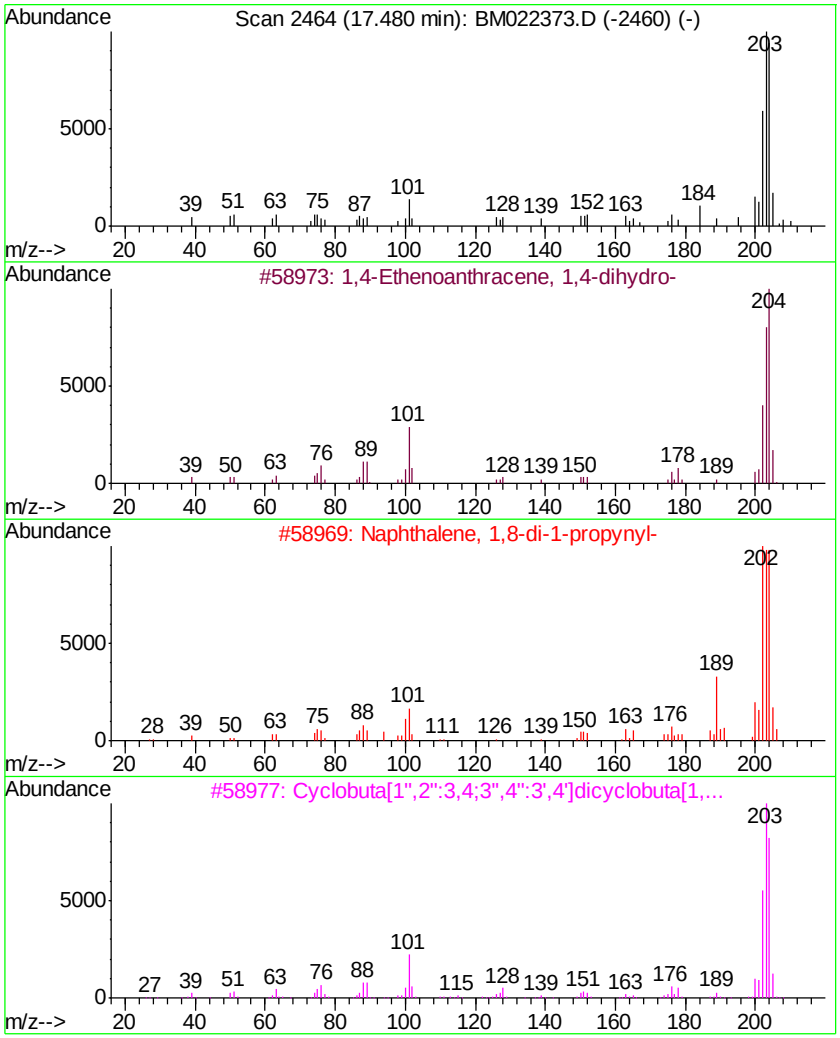
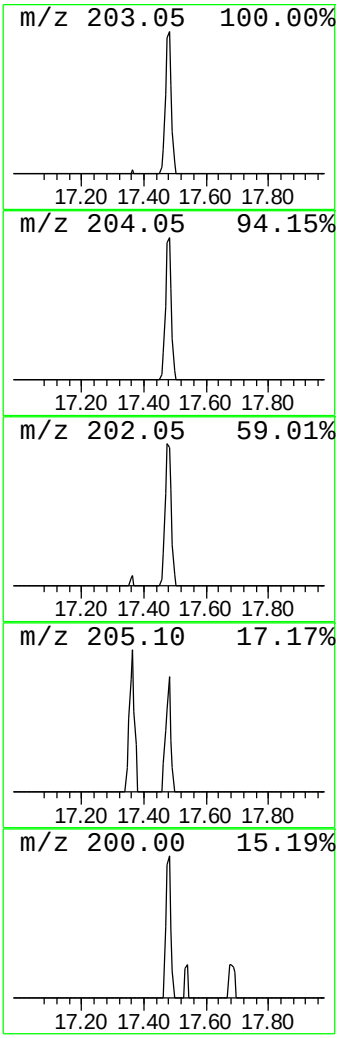
Peak Number 9 1,4-Ethenoanthracene, 1,4-d... Concentration Rank 31

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.48	3.45 ng/ul	83302	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Ethenoanthracene, 1,4-dihydro-	204	C16H12	027765-96-4	89
2	Naphthalene, 1,8-di-1-propynyl-	204	C16H12	022360-77-6	89
3	Cyclobuta[1'',2'':3,4;3'',4'':3'...	204	C16H12	006574-36-3	89
4	Dibenzo[a,e]cyclooctene	204	C16H12	000262-89-5	89
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	76





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Misc :
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Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

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

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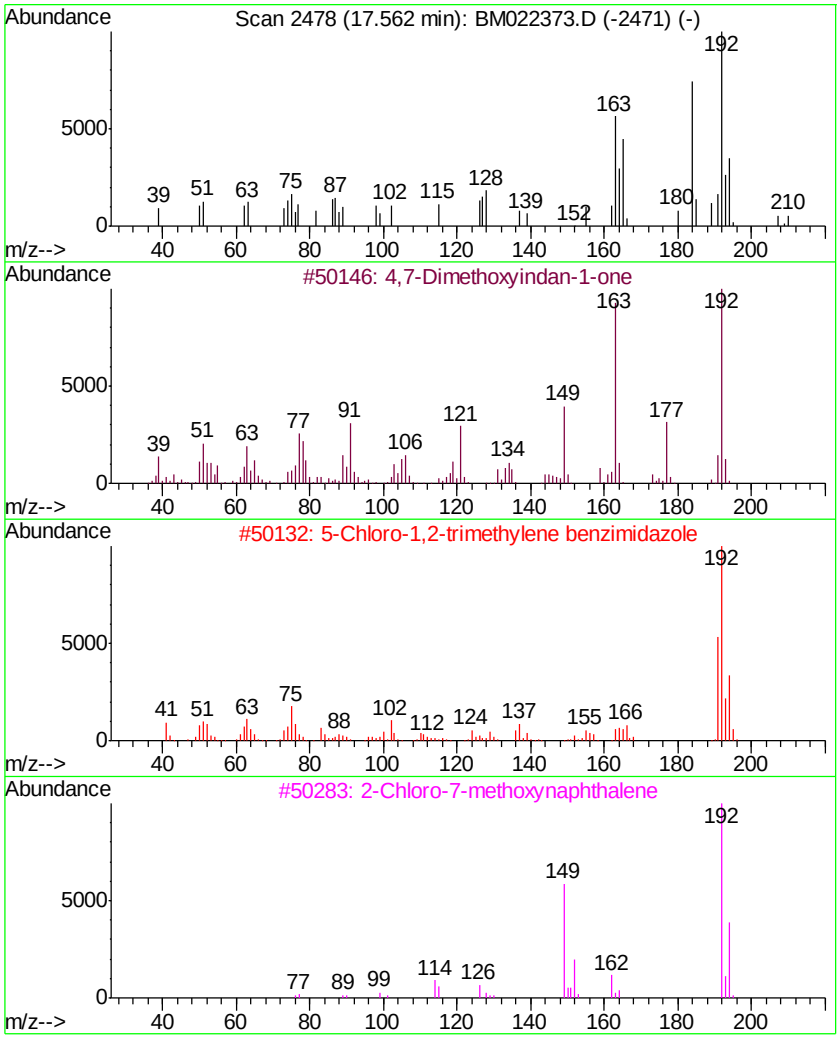
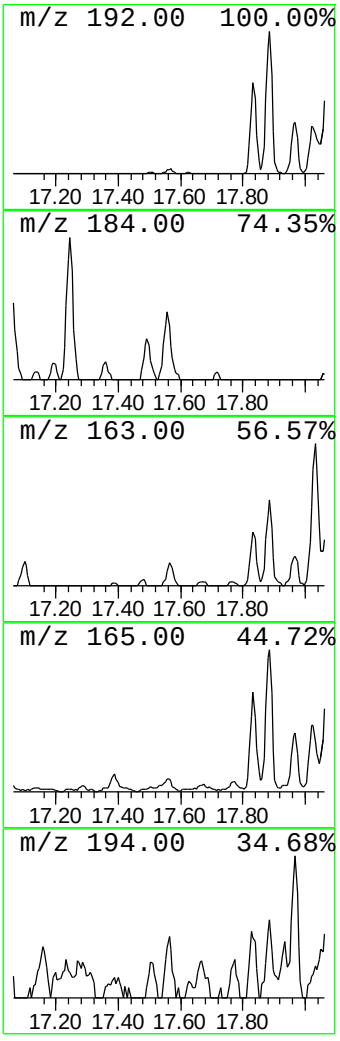
Peak Number 10 unknown-01 Concentration Rank 29

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.56	3.68 ng/ul	89000	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,7-Dimethoxyindan-1-one	192	C11H12O3	052428-09-8	27
2	5-Chloro-1,2-trimethylene benzim...	192	C10H9ClN2	010252-95-6	25
3	2-Chloro-7-methoxynaphthalene	192	C11H9ClO	067061-67-0	22
4	Pyrazole, 3-(p-chlorophenyl)-5-m...	192	C10H9ClN2	017629-27-5	18
5	5-Fluoroveratraldehyde	184	C9H9FO3	071924-61-3	14





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Sample : K4242-02 5X
Misc :
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ClientSampleId : C0AG7

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Quant Title : SVOA CALIBRATION

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

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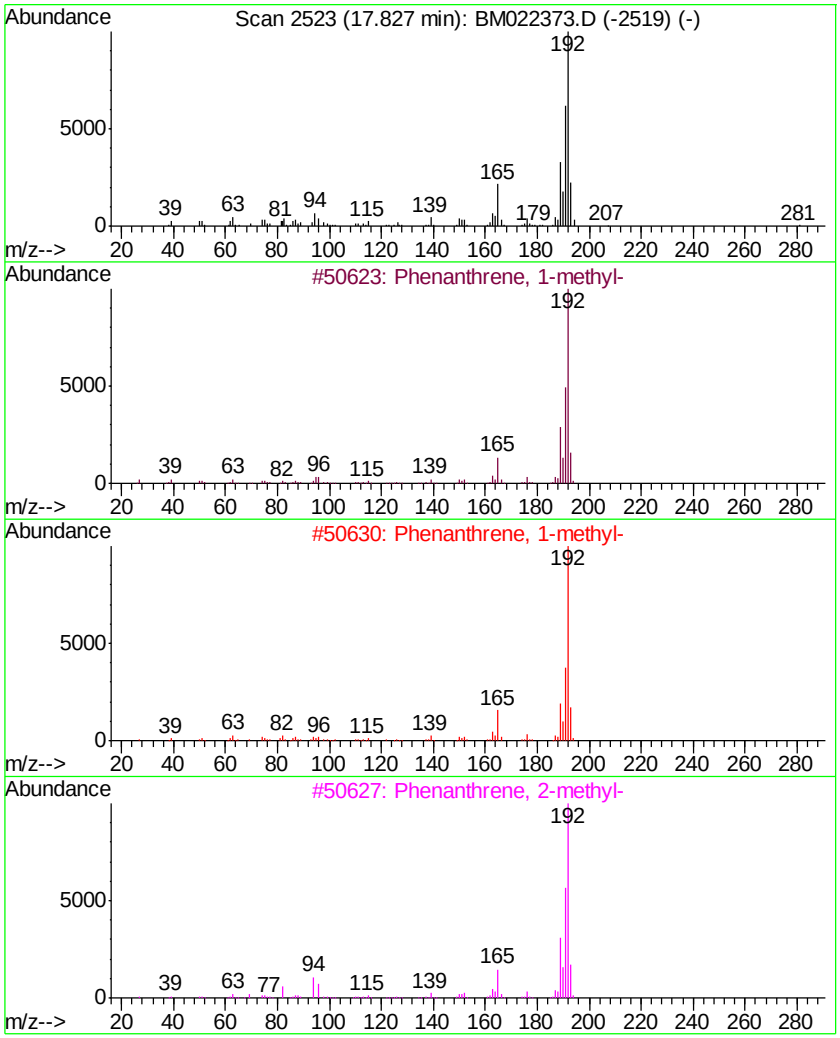
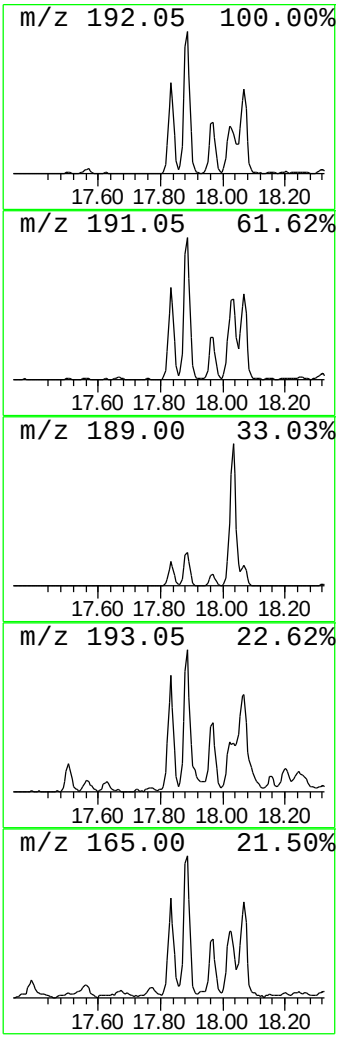
Peak Number 11 Phenanthrene, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.83	19.89 ng/ul	480605	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Naphtho[2,3-b]norbornadiene	192	C15H12	107426-38-0	93





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Operator : HP/JU
Sample : K4242-02 5X
Misc :
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Instrument : BNA_M
ClientSampleId : C0AG7

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Quant Title : SVOA CALIBRATION

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

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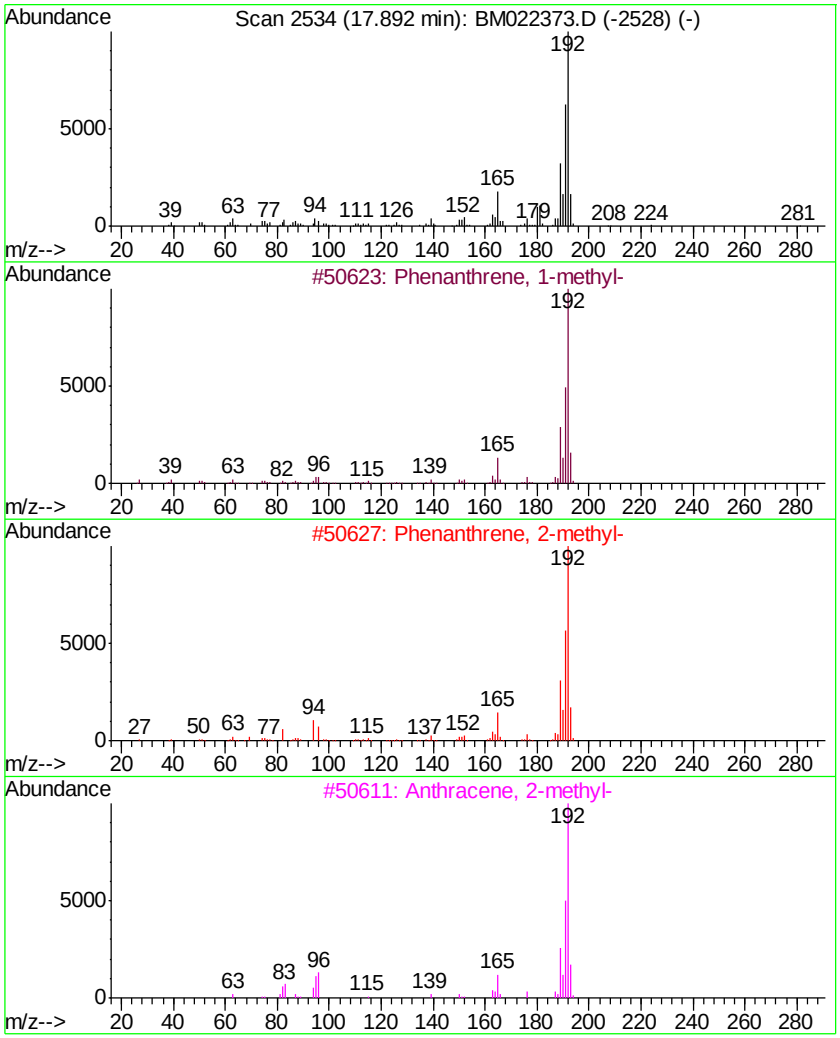
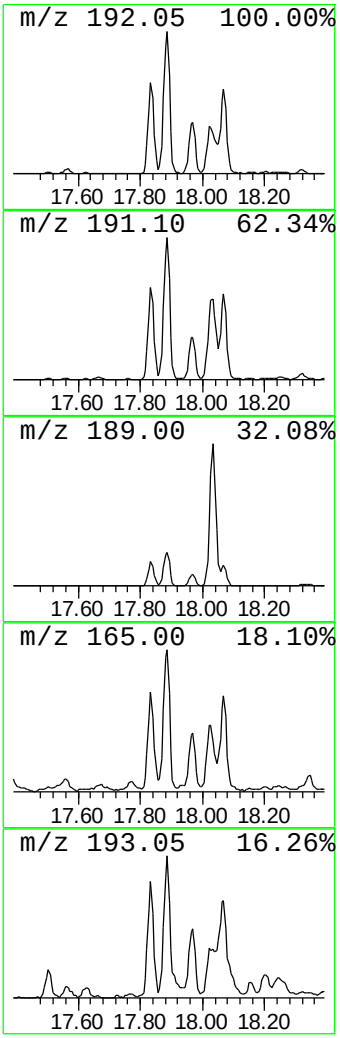
Peak Number 12 Phenanthrene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.89	32.97 ng/ul	796773	Phenanthrene-d10	16.96

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





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Instrument : BNA_M
ClientSampleId : C0AG7

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Quant Title : SVOA CALIBRATION

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

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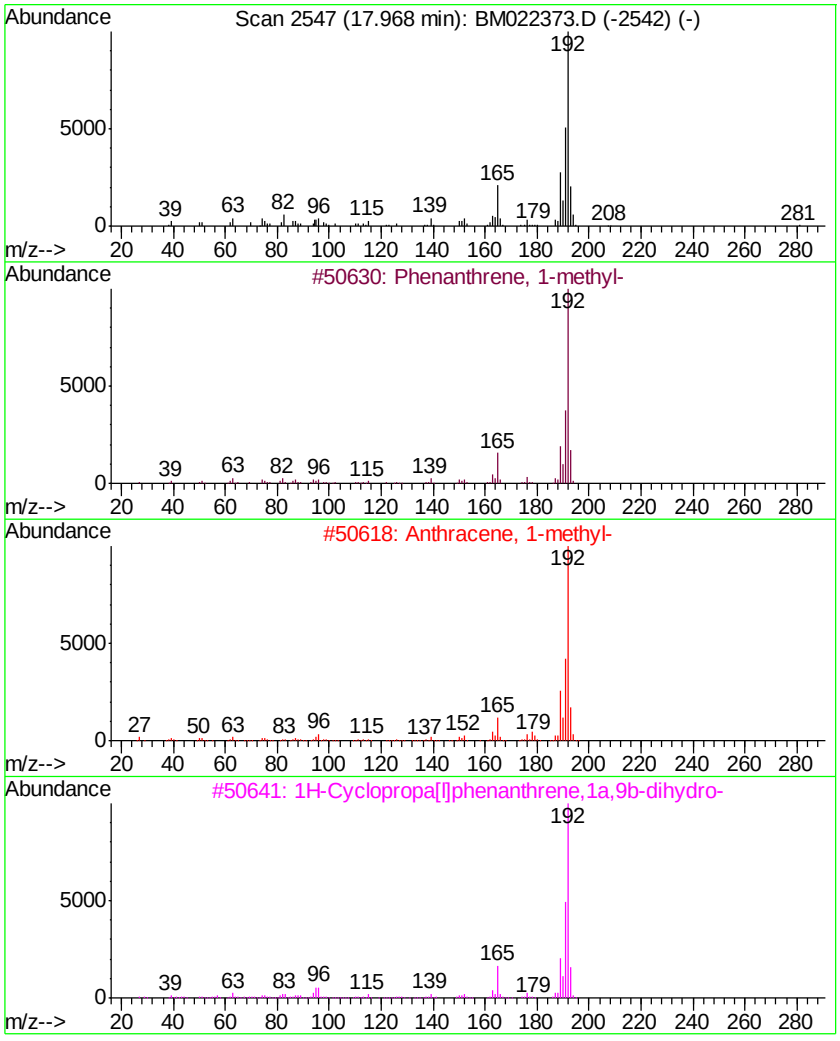
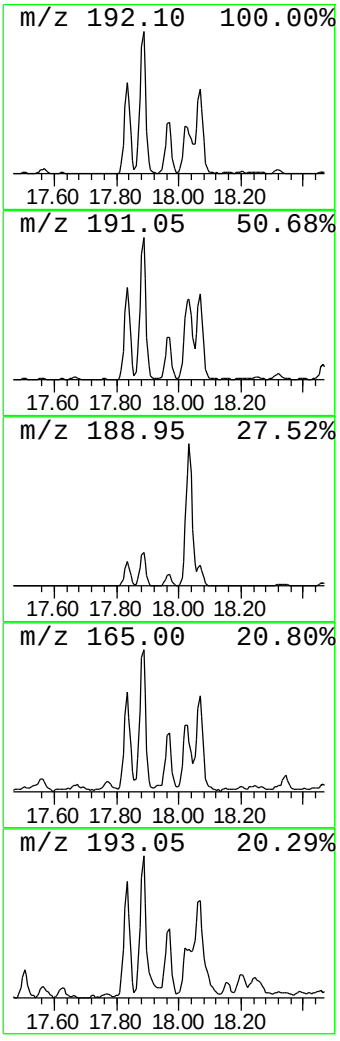
Peak Number 13 Anthracene, 1-methyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.97	10.85 ng/ul	262178	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
3	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	94
5	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	94





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Quant Title : SVOA CALIBRATION

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

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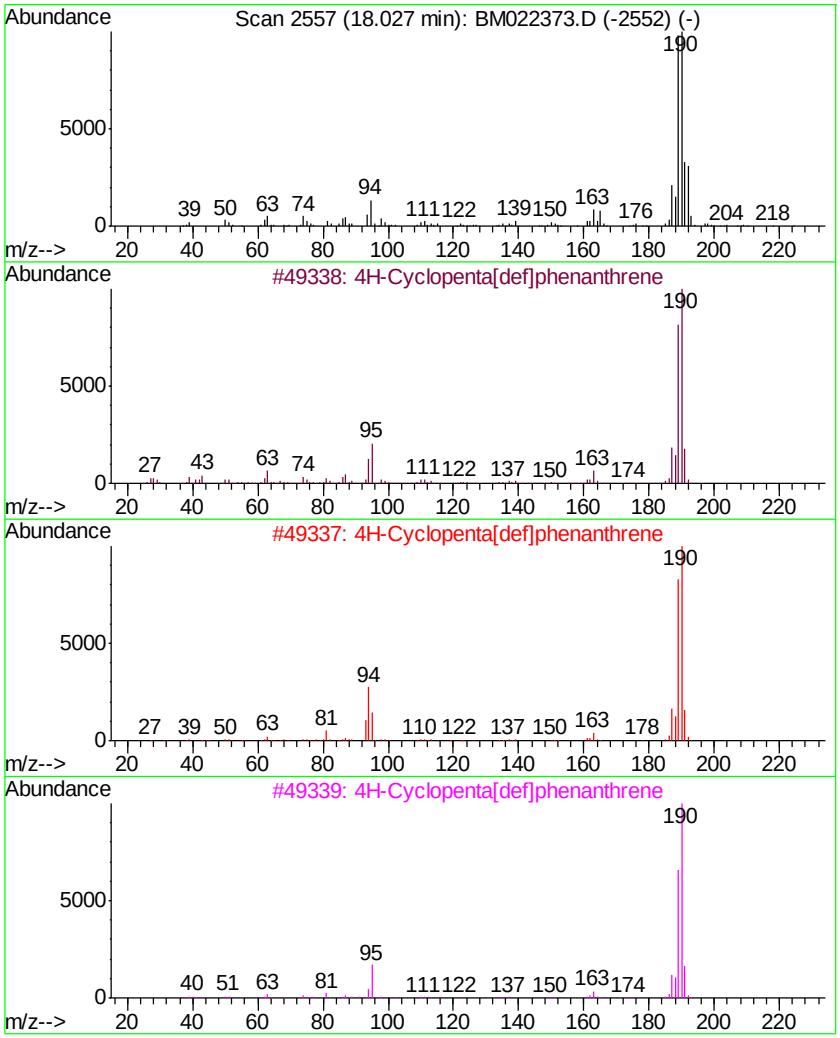
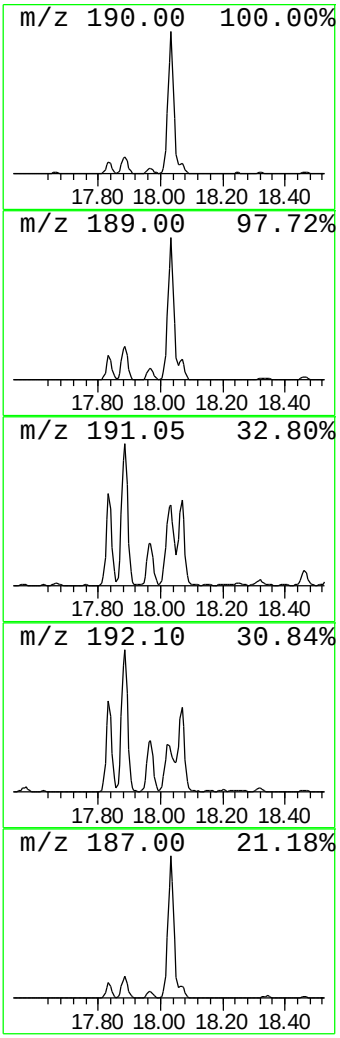
Peak Number 14 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.03	50.08 ng/ul	1210030	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	95
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	83
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	47
4	2-Naphthaldehyde, 1,2,3,4-tetrah...	190	C12H14O2	002472-02-8	18
5	4-Cyano-4-hydroxy-3-methyl-2-phe...	216	C13H16N2O	1000216-11-7	10





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Quant Title : SVOA CALIBRATION

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

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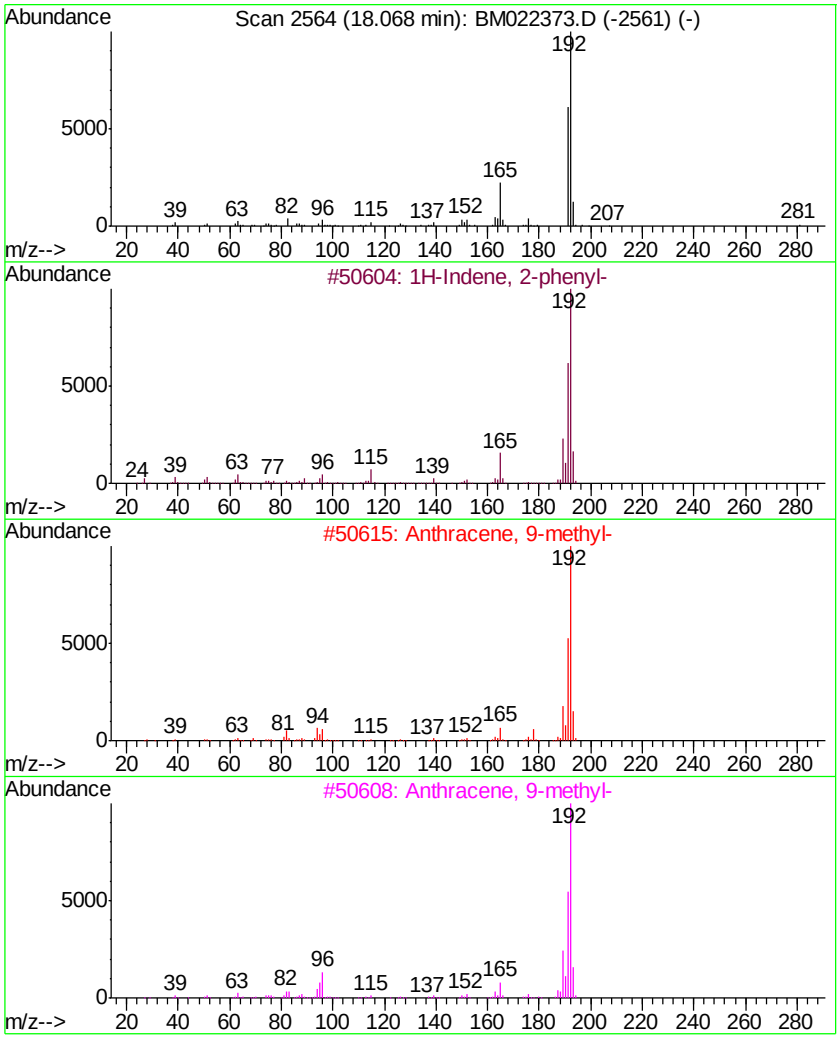
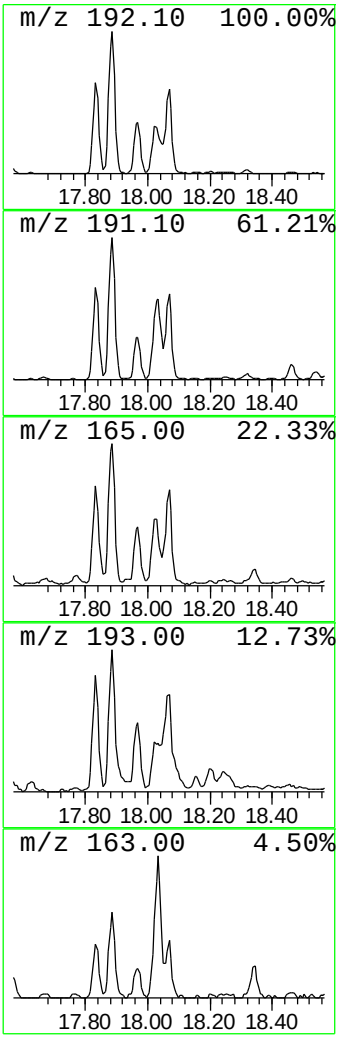
Peak Number 15 1H-Indene, 2-phenyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.07	18.77 ng/ul	453429	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	91
2	Anthracene, 9-methyl-	192	C15H12	000779-02-2	90
3	Anthracene, 9-methyl-	192	C15H12	000779-02-2	87
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	87
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	87





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Quant Title : SVOA CALIBRATION

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

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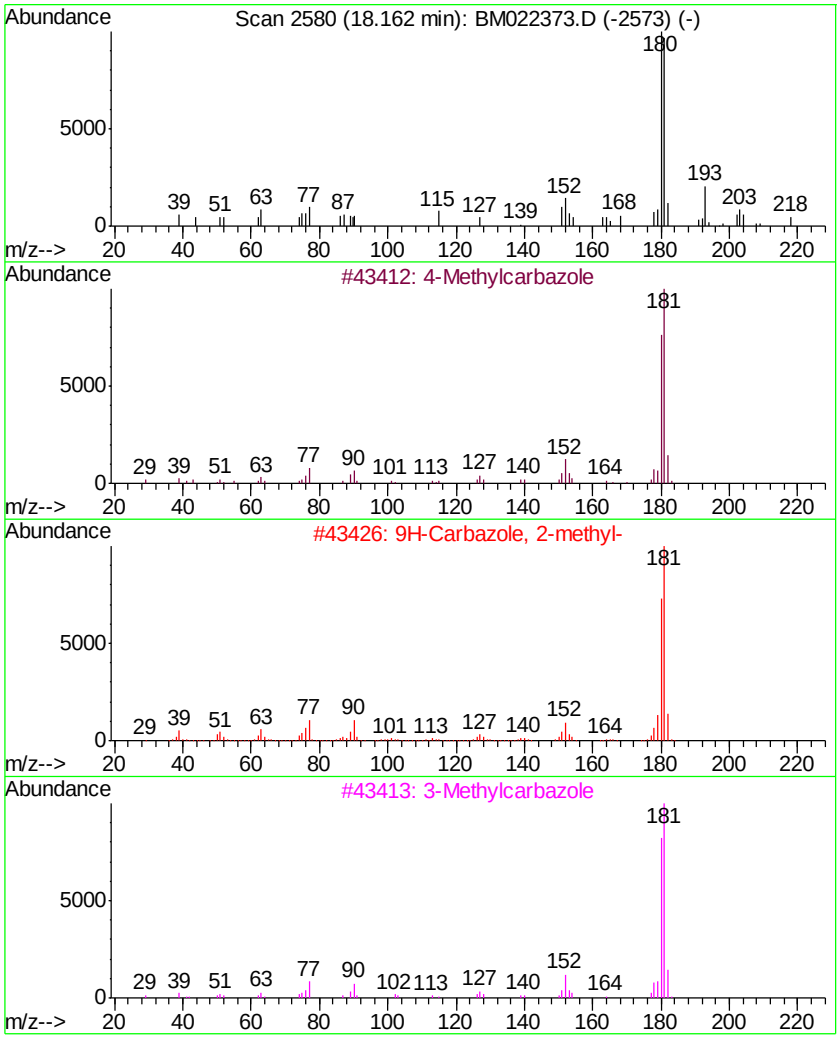
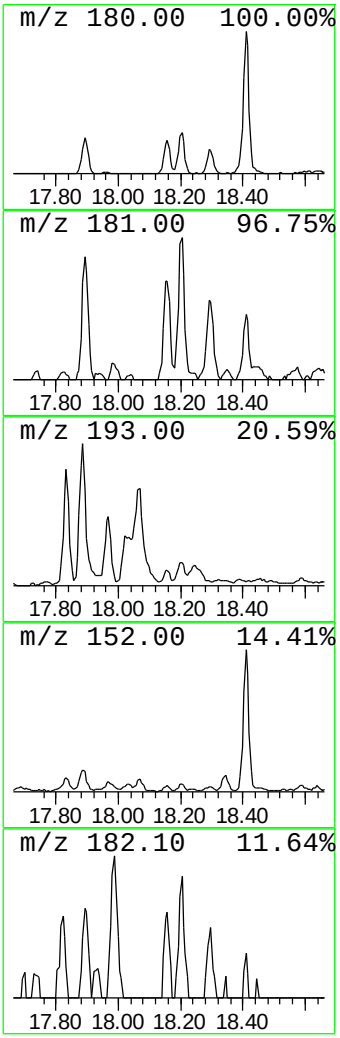
Peak Number 16 4-Methylcarbazole Concentration Rank 35

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.16	2.63 ng/ul	63596	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Methylcarbazole	181	C13H11N	003770-48-7	92
2	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	90
3	3-Methylcarbazole	181	C13H11N	004630-20-0	89
4	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	89
5	1-Methylcarbazole	181	C13H11N	006510-65-2	78





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Quant Title : SVOA CALIBRATION

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

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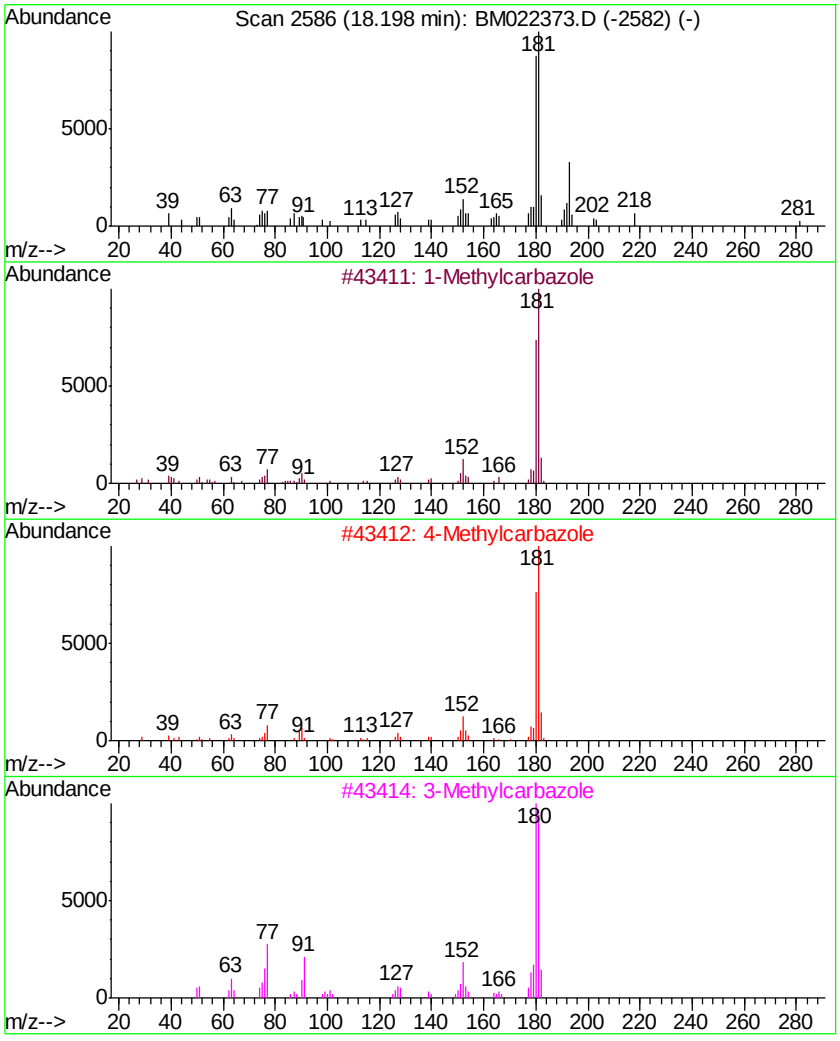
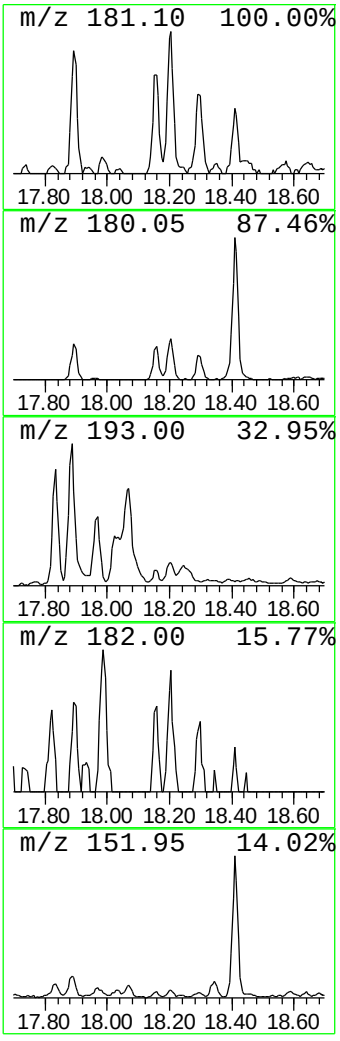
Peak Number 17 1-Methylcarbazole Concentration Rank 33

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.20	2.80 ng/ul	67771	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Methylcarbazole	181	C13H11N	006510-65-2	96
2	4-Methylcarbazole	181	C13H11N	003770-48-7	94
3	3-Methylcarbazole	181	C13H11N	004630-20-0	90
4	9H-Carbazole, 2-methyl-	181	C13H11N	003652-91-3	90
5	3-Methylcarbazole	181	C13H11N	004630-20-0	81





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Acq On : 27 Aug 2019 19:00
Operator : HP/JU
Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0AG7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

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

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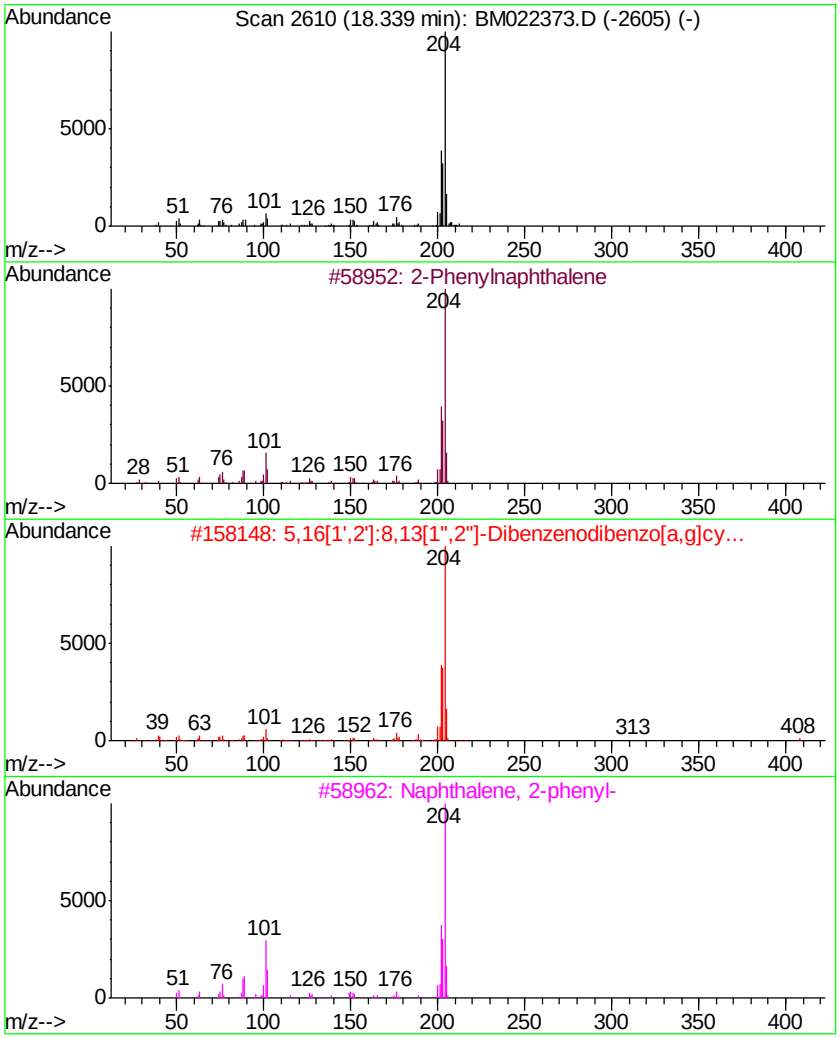
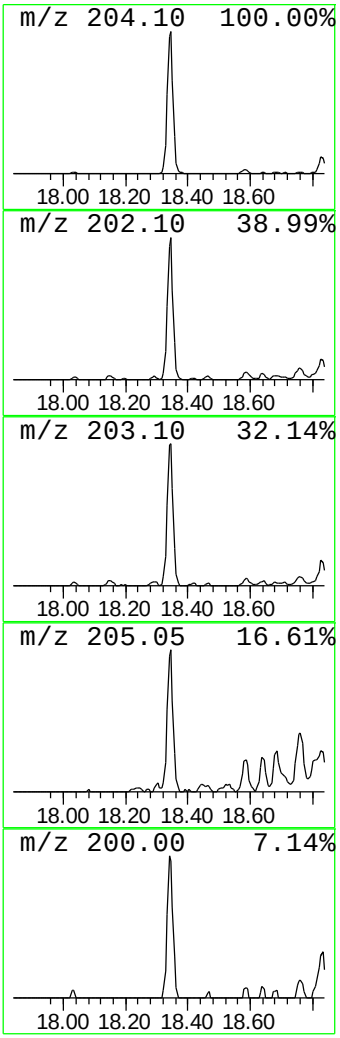
Peak Number 18 2-Phenylnaphthalene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.34	20.05 ng/ul	484485	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Phenylnaphthalene	204	C16H12	035465-71-5	93
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	70
4	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	70
5	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	64





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Misc :
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Instrument : BNA_M
ClientSampleId : C0AG7

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Quant Title : SVOA CALIBRATION

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

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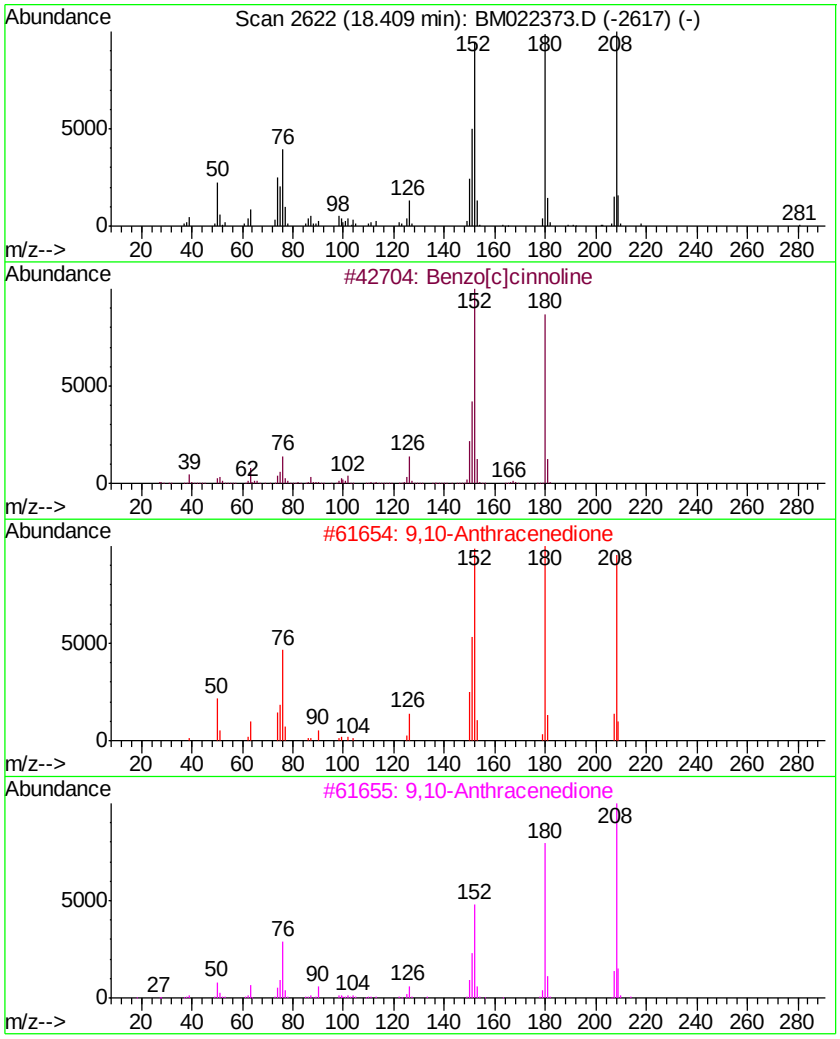
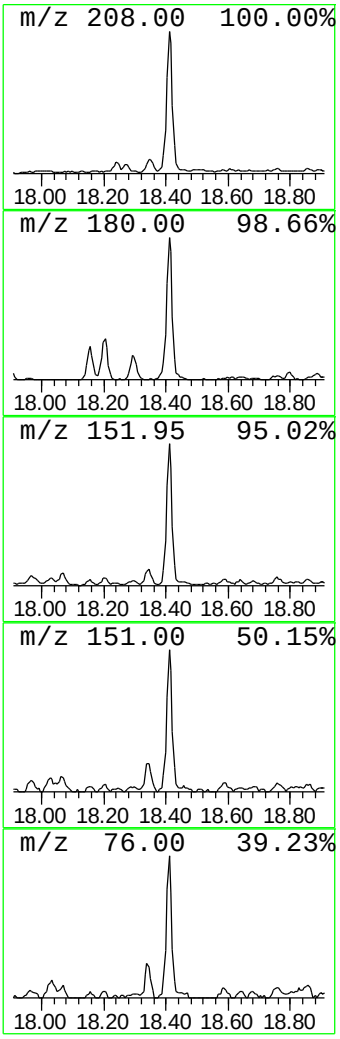
Peak Number 19 Benzo[c]cinnoline Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.41	14.01 ng/ul	338461	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[c]cinnoline	180	C12H8N2	000230-17-1	96
2	9,10-Anthracenedione	208	C14H8O2	000084-65-1	96
3	9,10-Anthracenedione	208	C14H8O2	000084-65-1	94
4	9,10-Anthracenedione	208	C14H8O2	000084-65-1	93
5	1H-Phenalen-1-one	180	C13H8O	000548-39-0	64





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Operator : HP/JU
Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0AG7

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Quant Title : SVOA CALIBRATION

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

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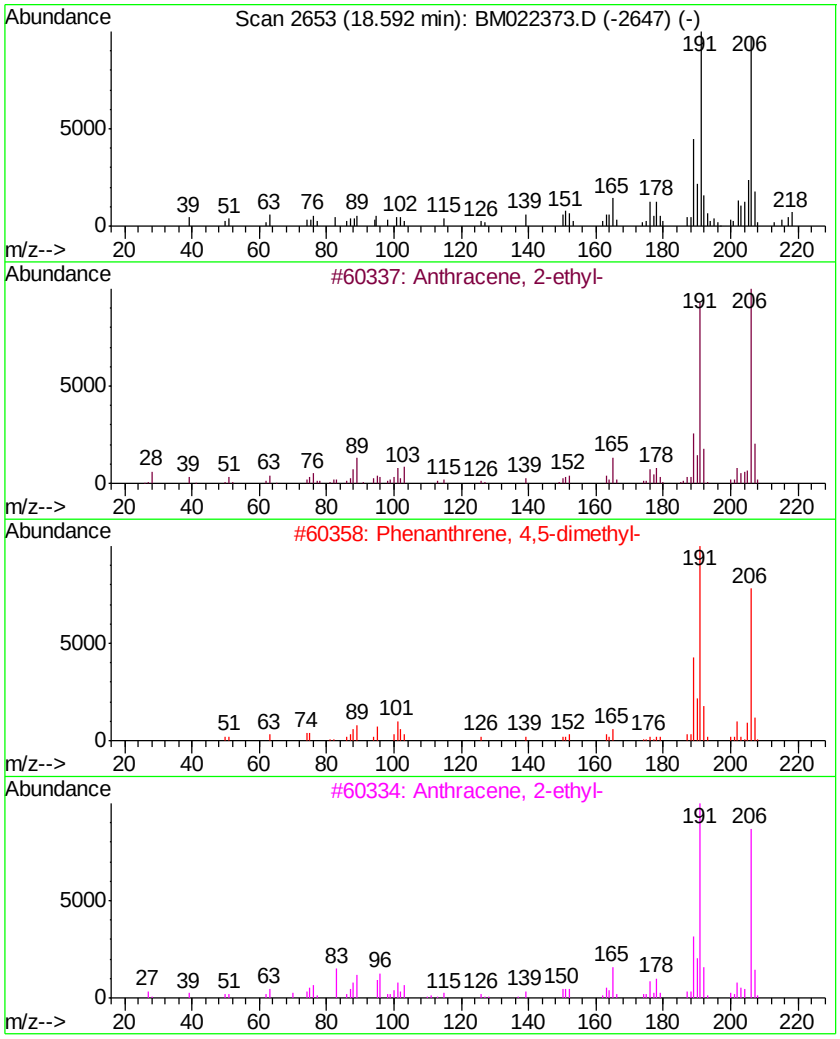
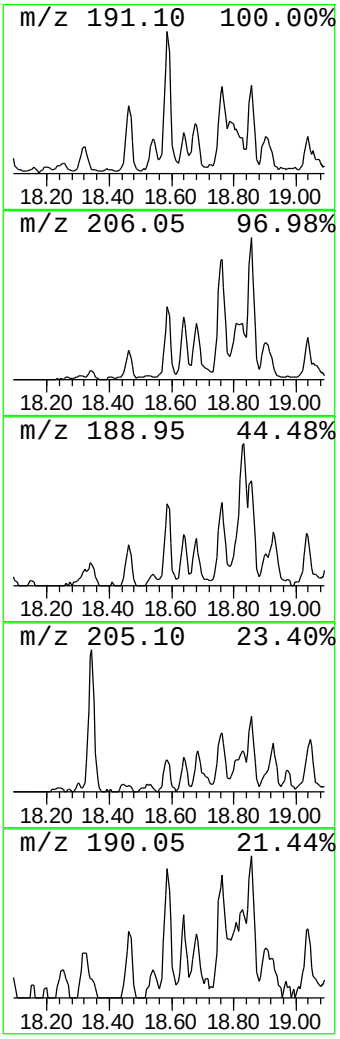
Peak Number 20 Anthracene, 2-ethyl- Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.59	6.40 ng/ul	154599	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	93
2	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93
3	Anthracene, 2-ethyl-	206	C16H14	052251-71-5	93
4	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	93
5	Phenanthrene, 4,5-dimethyl-	206	C16H14	003674-69-9	93





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Acq On : 27 Aug 2019 19:00
Operator : HP/JU
Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0AG7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

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

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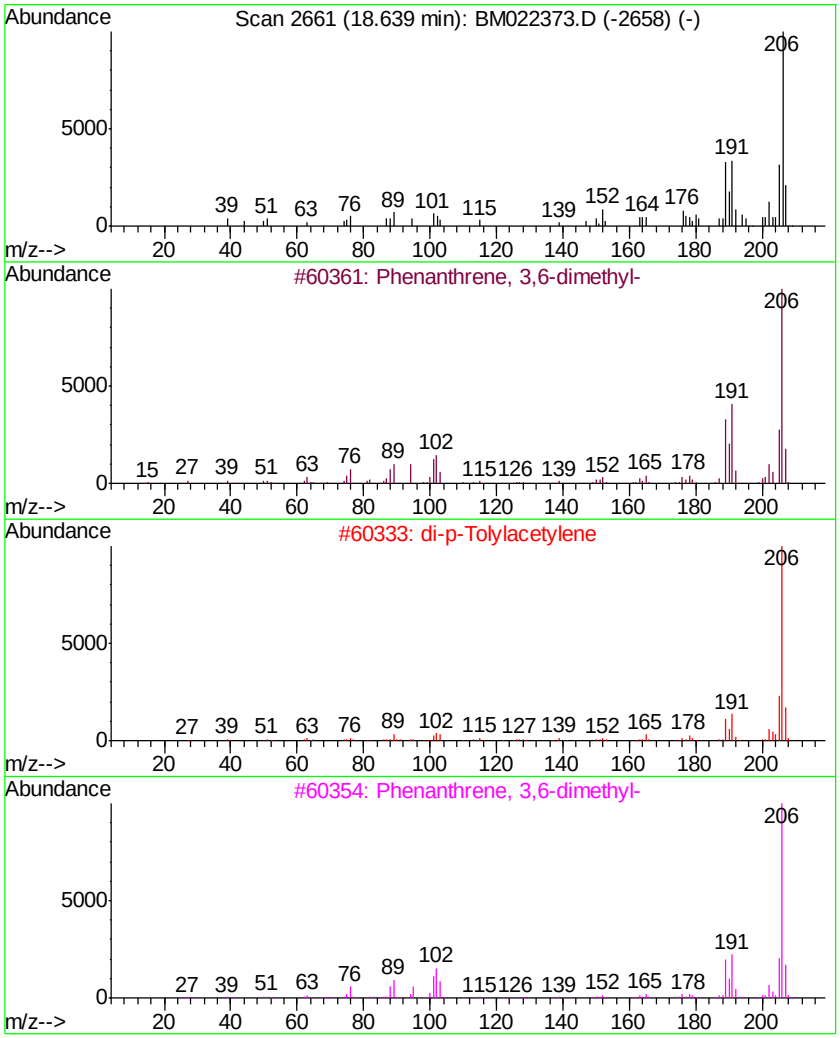
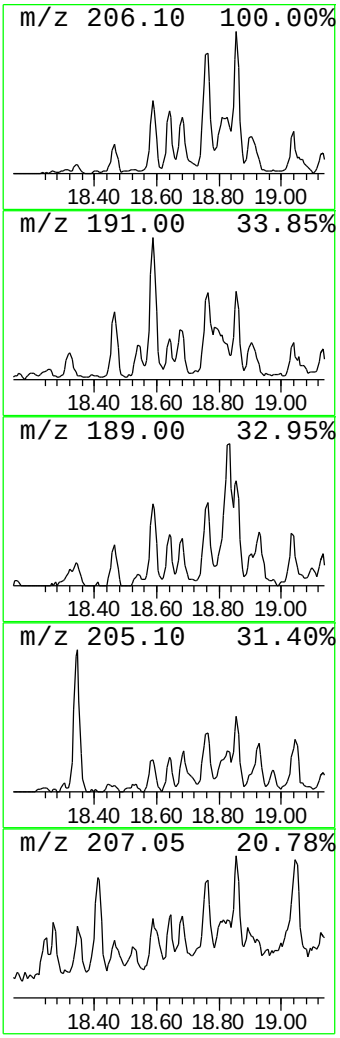
Peak Number 21 Phenanthrene, 3,6-dimethyl- Concentration Rank 36

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.64	2.59 ng/ul	62569	Phenanthrene-d10	16.96

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, 3,6-dimethyl-	206	C16H14	001576-67-6	90
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90





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Acq On : 27 Aug 2019 19:00
Operator : HP/JU
Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0AG7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

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

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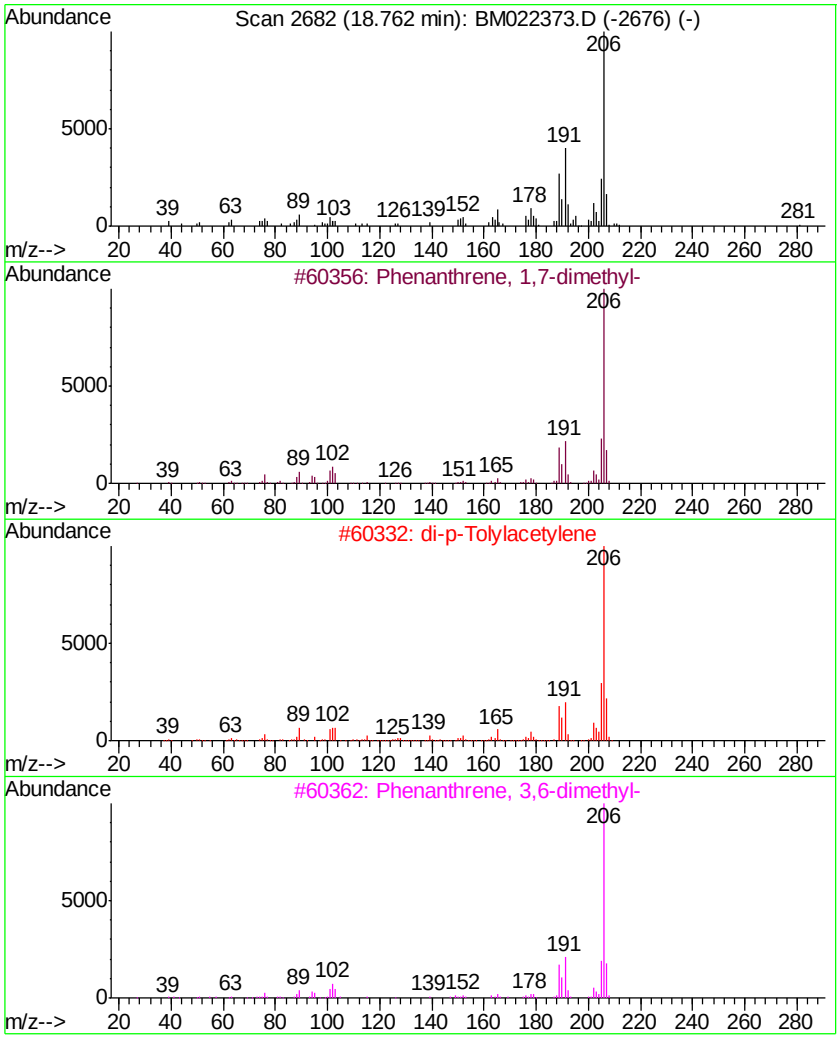
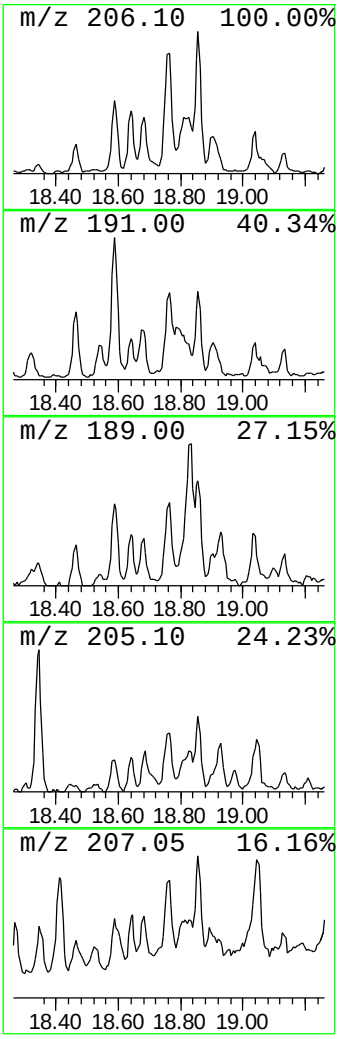
Peak Number 23 Phenanthrene, 1,7-dimethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.76	8.33 ng/ul	201238	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	91
2	di-p-Tolylacetylene	206	C16H14	002789-88-0	90
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	90
4	1H-Indene, 2-methyl-3-phenyl-	206	C16H14	035099-60-6	89
5	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	87





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Operator : HP/JU
Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0AG7

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Quant Title : SVOA CALIBRATION

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

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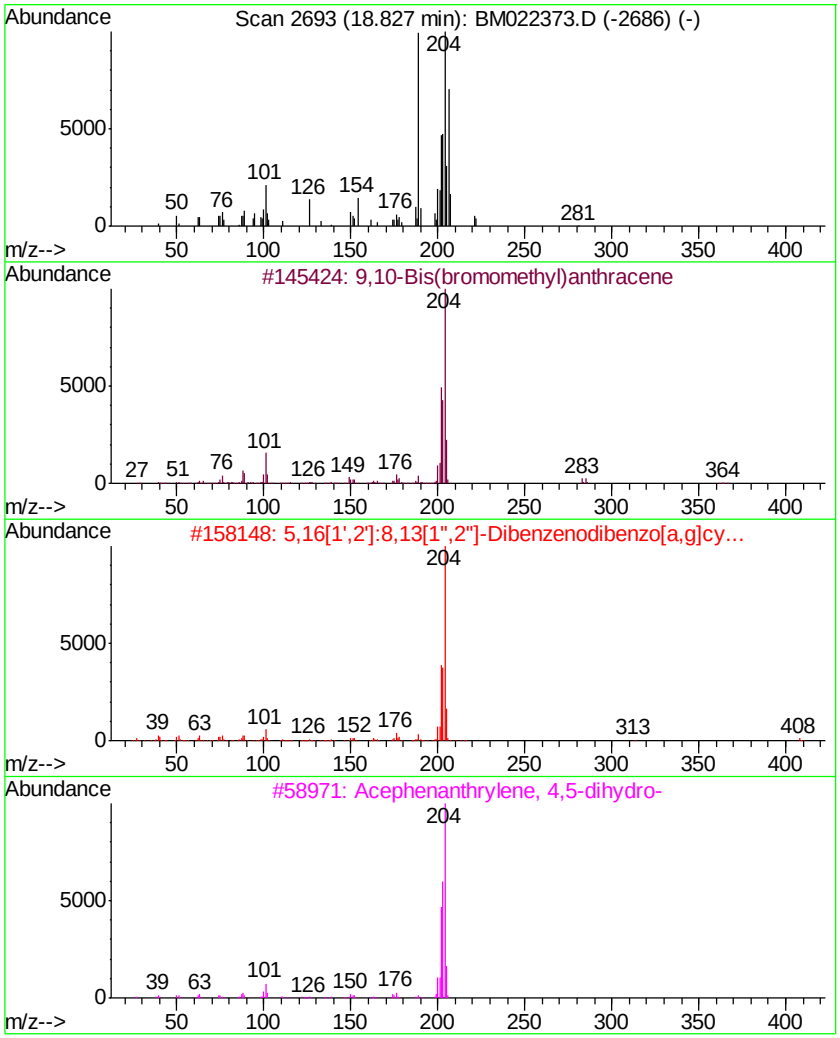
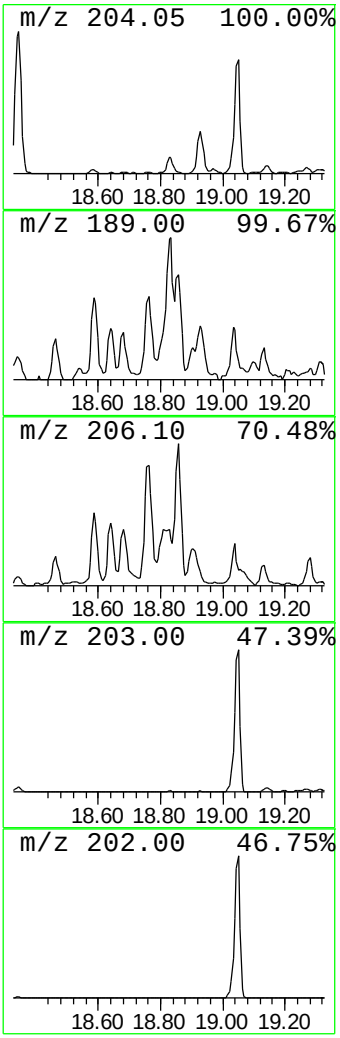
Peak Number 24 unknown-02 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.83	7.00 ng/ul	169091	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	49
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	46
3	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	42
4	5H-Dibenzo[a,d]cycloheptene, 5-m...	204	C16H12	002975-79-3	42
5	2-Phenylnaphthalene	204	C16H12	035465-71-5	30





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Operator : HP/JU
Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0AG7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

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

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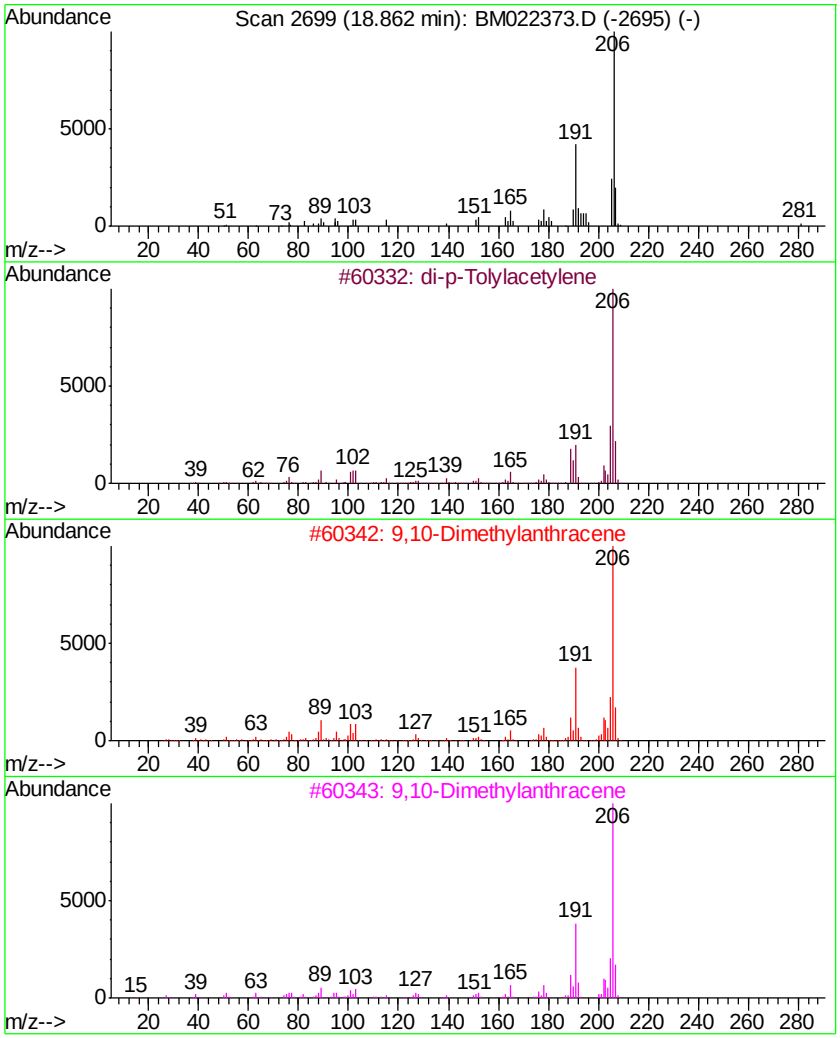
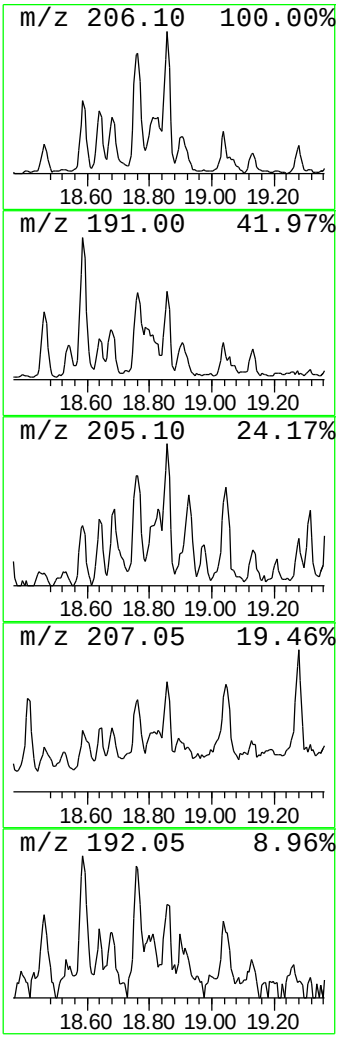
Peak Number 25 di-p-Tolylacetylene Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.86	6.30 ng/ul	152195	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	di-p-Tolylacetylene	206	C16H14	002789-88-0	90
2	9,10-Dimethylanthracene	206	C16H14	000781-43-1	90
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	87
4	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	86
5	Naphthalene, 1,2-dihydro-4-phenyl-	206	C16H14	007469-40-1	86





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Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0AG7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

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

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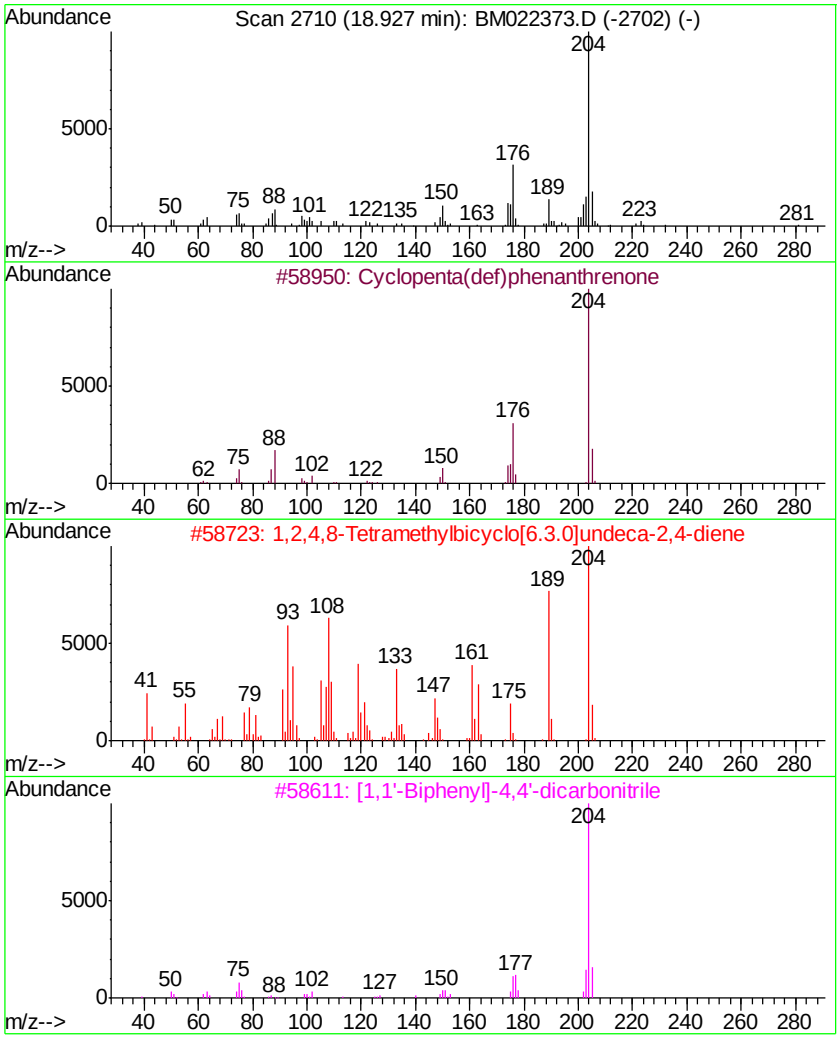
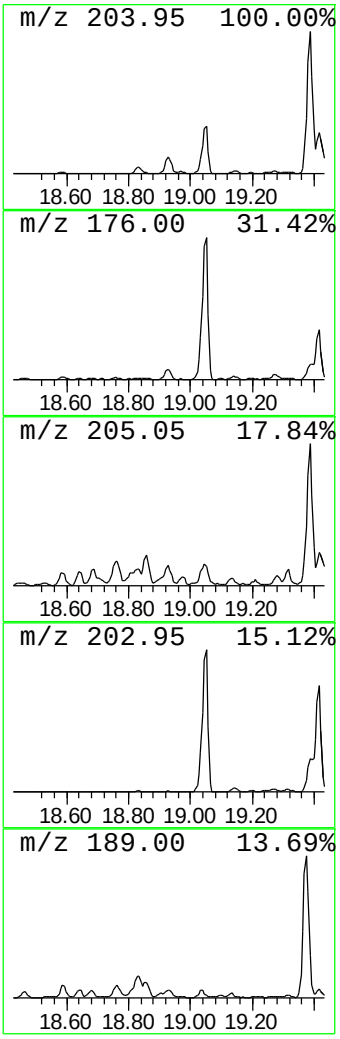
Peak Number 26 Cyclopenta(def)phenanthrenone Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.93	8.94 ng/ul	216021	Phenanthrene-d10	16.96

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclopenta(def)phenanthrenone	204	C15H8O	005737-13-3	81
2	1,2,4,8-Tetramethylbicyclo[6.3.0...	204	C15H24	137235-51-9	60
3	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	59
4	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50
5	[1,1'-Biphenyl]-4,4'-dicarbonitrile	204	C14H8N2	001591-30-6	50





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Sample : K4242-02 5X
Misc :
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Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

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

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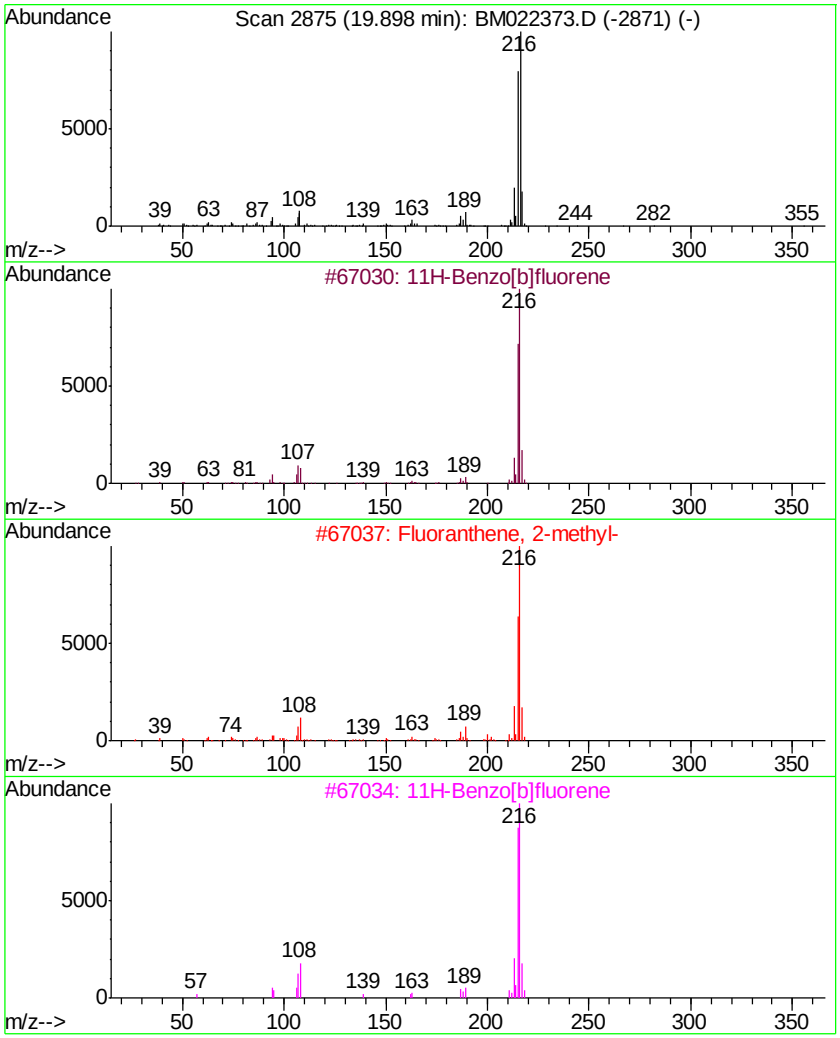
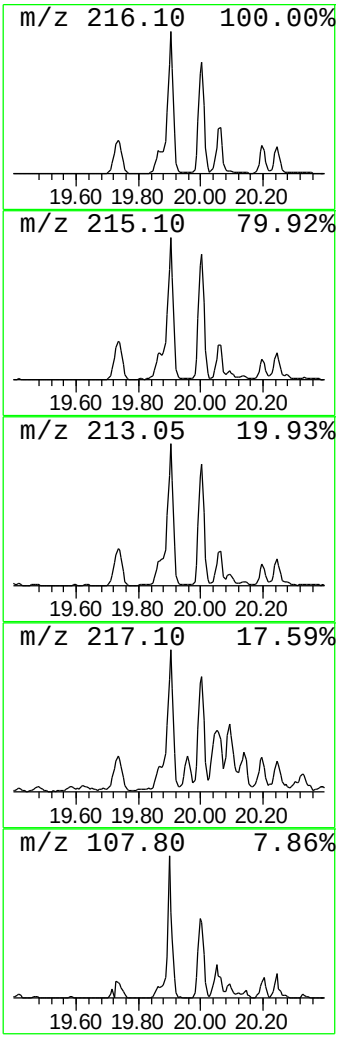
Peak Number 27 11H-Benzo[b]fluorene Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.90	3.73 ng/ul	1257720	Chrysene-d12	21.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	93
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
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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Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0AG7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

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

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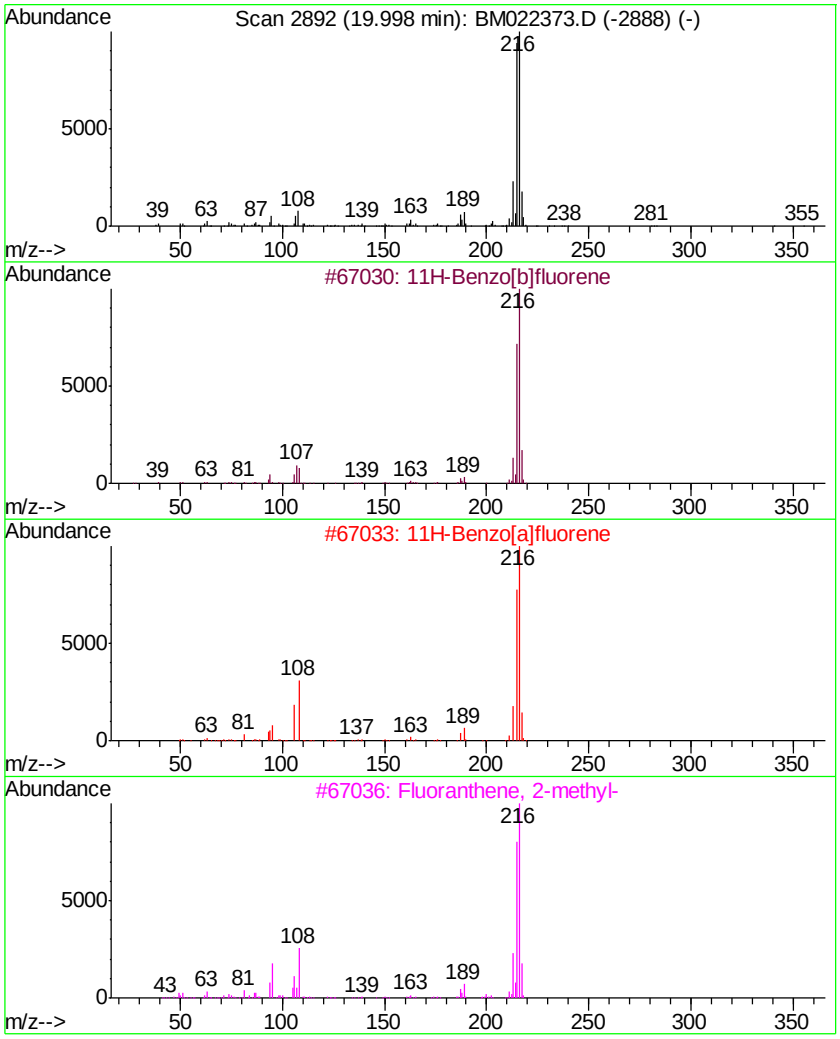
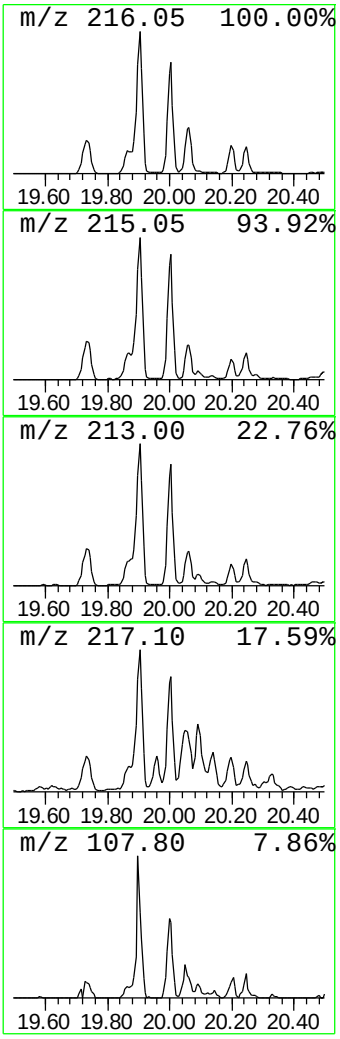
Peak Number 28 11H-Benzo[a]fluorene Concentration Rank 34

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.00	2.77 ng/ul	935793	Chrysene-d12	21.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	91
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	90
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	87
5	Pyrene, 1-methyl-	216	C17H12	002381-21-7	86





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Acq On : 27 Aug 2019 19:00
Operator : HP/JU
Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0AG7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

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

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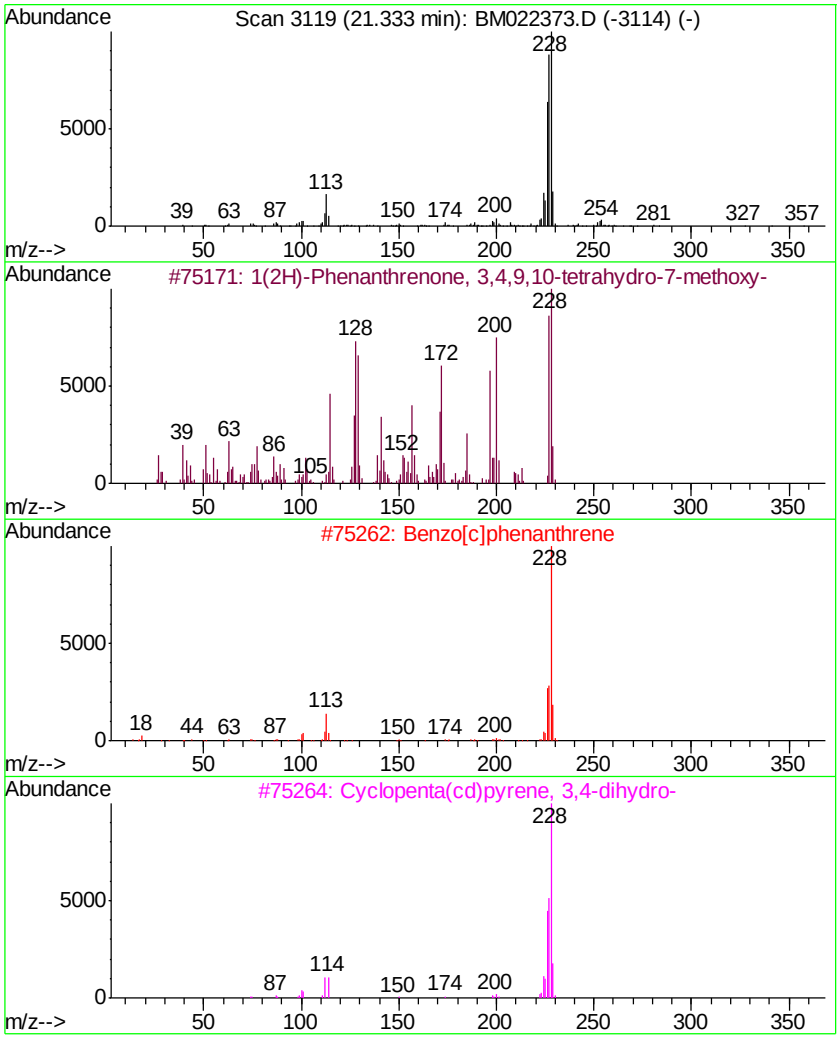
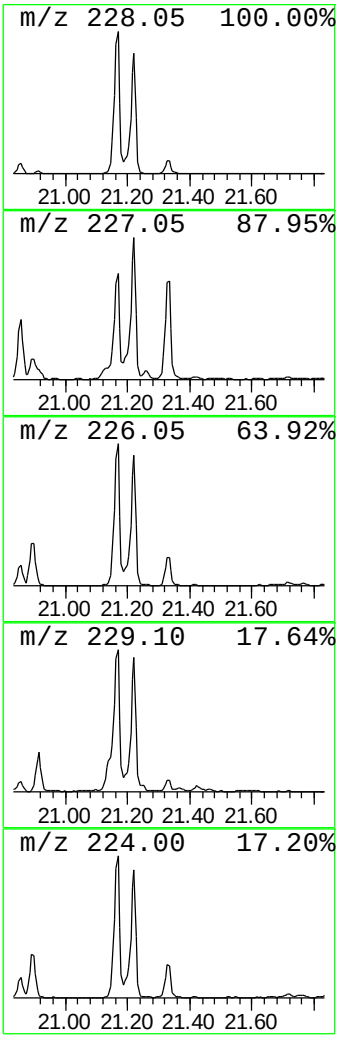
Peak Number 29 1(2H)-Phenanthrenone, 3,4,9... Concentration Rank 37

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.33	2.20 ng/ul	743510	Chrysene-d12	21.18

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1(2H)-Phenanthrenone, 3,4,9,10-t...	228	C15H16O2	014427-61-3	50
2	Benzo[c]phenanthrene	228	C18H12	000195-19-7	43
3	Cyclopenta(cd)pyrene, 3,4-dihydro-	228	C18H12	025732-74-5	41
4	Benz[a]anthracene	228	C18H12	000056-55-3	41
5	Triphenylene	228	C18H12	000217-59-4	41





Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022373.D
Acq On : 27 Aug 2019 19:00
Operator : HP/JU
Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0AG7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION

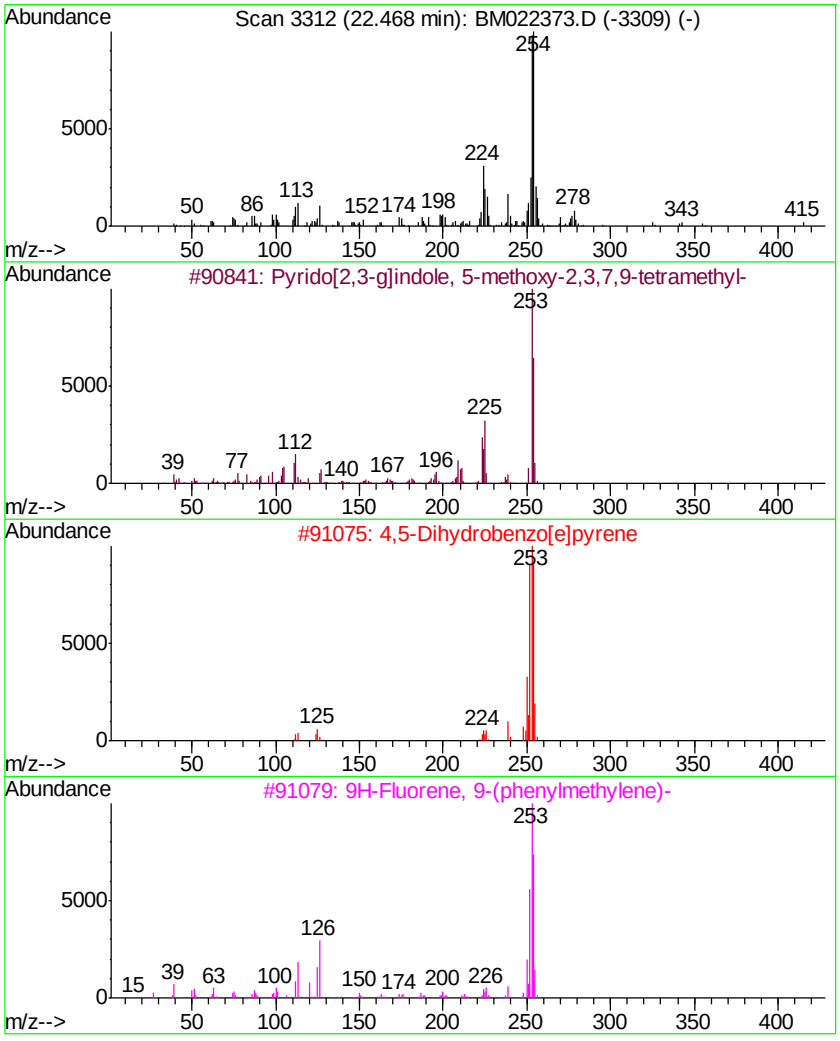
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

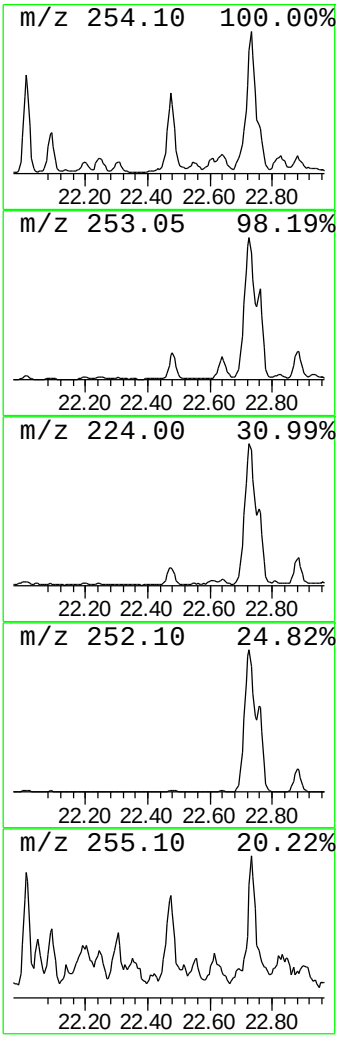
****

Peak Number 30 Pyrido[2,3-g]indole, 5-meth... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.47	11.90 ng/ul	259598	Perylene-d12	23.37

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrido[2,3-g]indole, 5-methoxy-2...	254	C16H18N2O	201991-45-9	64
2	4,5-Dihydrobenzo[e]pyrene	254	C20H14	095676-42-9	64
3	9H-Fluorene, 9-(phenylmethylene)-	254	C20H14	001836-87-9	62
4	4,6'-Biazulenyl	254	C20H14	094154-49-1	58
5	Benzofuran-5,6-diol-3-one, 2-ben...	254	C15H10O4	1000128-65-2	50





Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM082619\
Data File : BM022373.D
Acq On : 27 Aug 2019 19:00
Operator : HP/JU
Sample : K4242-02 5X
Misc :
ALS Vial : 51 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : C0AG7

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.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
Toluene	3.81	13.4	ng/ul	116859	1	7.54	174491	20.0
9H-Fluoren-9-ol	15.55	3.9	ng/ul	74318	3	14.20	380941	20.0
Dibenzofuran, 4-m...	15.70	5.2	ng/ul	126578	4	16.96	483271	20.0
3H-Benz[e]indene,...	16.26	4.9	ng/ul	118587	4	16.96	483271	20.0
9H-Fluoren-9-one	16.63	3.9	ng/ul	94988	4	16.96	483271	20.0
Methanone, (2-met...	16.69	3.1	ng/ul	74216	4	16.96	483271	20.0
Dibenzothiophene	16.78	15.1	ng/ul	364230	4	16.96	483271	20.0
Phenanthridine	17.17	7.1	ng/ul	172357	4	16.96	483271	20.0
1,4-Ethenoanthrac...	17.48	3.5	ng/ul	83302	4	16.96	483271	20.0
unknown-01	17.56	3.7	ng/ul	89000	4	16.96	483271	20.0
Phenanthrene, 1-m...	17.83	19.9	ng/ul	480605	4	16.96	483271	20.0
Phenanthrene, 2-m...	17.89	33.0	ng/ul	796773	4	16.96	483271	20.0
Anthracene, 1-met...	17.97	10.9	ng/ul	262178	4	16.96	483271	20.0
4H-Cyclopenta[def...	18.03	50.1	ng/ul	1210030	4	16.96	483271	20.0
1H-Indene, 2-phenyl-	18.07	18.8	ng/ul	453429	4	16.96	483271	20.0
4-Methylcarbazole	18.16	2.6	ng/ul	63596	4	16.96	483271	20.0
1-Methylcarbazole	18.20	2.8	ng/ul	67771	4	16.96	483271	20.0
2-Phenylnaphthalene	18.34	20.1	ng/ul	484485	4	16.96	483271	20.0
Benzo[c]cinnoline	18.41	14.0	ng/ul	338461	4	16.96	483271	20.0
Anthracene, 2-ethyl-	18.59	6.4	ng/ul	154599	4	16.96	483271	20.0
Phenanthrene, 3,6...	18.64	2.6	ng/ul	62569	4	16.96	483271	20.0
Phenanthrene, 1,7...	18.76	8.3	ng/ul	201238	4	16.96	483271	20.0
unknown-02	18.83	7.0	ng/ul	169091	4	16.96	483271	20.0
di-p-Tolylacetylene	18.86	6.3	ng/ul	152195	4	16.96	483271	20.0
Cyclopenta(def)ph...	18.93	8.9	ng/ul	216021	4	16.96	483271	20.0
11H-Benzo[b]fluorene	19.90	3.7	ng/ul	1257720	5	21.18	6748100	20.0
11H-Benzo[a]fluorene	20.00	2.8	ng/ul	935793	5	21.18	6748100	20.0
1(2H)-Phenanthren...	21.33	2.2	ng/ul	743510	5	21.18	6748100	20.0
Pyrido[2,3-g]indo...	22.47	11.9	ng/ul	259598	6	23.37	436463	20.0