LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
Data File : BM014441.D
Acq On : 01 Mar 2018 20:10
Operator : SJ/JU
Sample : J1646-16
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Y0

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

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

Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.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	6.716	624	634	652	rVB2	373189	848770	2.43%	0.452%
2	6.863	652	659	670	rBV	383835	701739	2.01%	0.373%
3	7.051	685	691	700	rBV	518170	827170	2.37%	0.440%
4	7.510	763	769	776	rBV	449139	708342	2.03%	0.377%
5	8.239	885	893	905	rBV	455900	930218	2.66%	0.495%
6	8.410	917	922	927	rBV2	265913	627447	1.80%	0.334%
7	8.669	960	966	978	rVB	535261	923483	2.64%	0.491%
8	9.386	1077	1088	1097	rBV	465140	873725	2.50%	0.465%
9	9.933	1174	1181	1194	rBV	563616	1177605	3.37%	0.627%
10	10.280	1233	1240	1246	rBV	667544	1114902	3.19%	0.593%
11	10.445	1261	1268	1277	rBV2	503137	1031786	2.95%	0.549%
12	13.592	1797	1803	1808	rBV	1270463	1746720	5.00%	0.929%
13	13.639	1808	1811	1818	rVB	299746	424029	1.21%	0.226%
14	13.863	1840	1849	1860	rBV	1477445	2260258	6.47%	1.203%
15	14.168	1894	1901	1908	rBV2	989665	1555078	4.45%	0.827%
16	15.174	2062	2072	2078	rBV	1822382	2520770	7.21%	1.341%
17	15.345	2094	2101	2108	rBV4	235410	431679	1.24%	0.230%
18	16.933	2365	2371	2375	rBV2	1323516	1955490	5.60%	1.040%
19	16.974	2375	2378	2383	rVV	1433202	1900927	5.44%	1.011%
20	17.033	2383	2388	2392	rVV2	2007897	2836991	8.12%	1.509%
21	17.856	2523	2528	2534	rVB2	341250	710312	2.03%	0.378%
22	18.004	2549	2553	2557	rVV2	315184	563364	1.61%	0.300%
23	18.833	2690	2694	2698	rBV	712343	831146	2.38%	0.442%
24	18.880	2698	2702	2709	rVV6	258884	442974	1.27%	0.236%
25	19.009	2717	2724	2729	rVB	2629490	3655483	10.46%	1.945%
26	19.239	2758	2763	2768	rBV3	340841	573817	1.64%	0.305%
27	19.298	2769	2773	2776	rVV	906758	1287168	3.68%	0.685%
28	19.345	2776	2781	2784	rVV2	2866560	4583737	13.12%	2.439%
29	19.374	2784	2786	2795	rVV	2181017	3380021	9.67%	1.798%
30	19.450	2796	2799	2807	rVB5	270924	438067	1.25%	0.233%
31	19.715	2837	2844	2850	rBV5	1206718	1968364	5.63%	1.047%
32	19.798	2856	2858	2862	rVB2	312582	362858	1.04%	0.193%
33	19.874	2868	2871	2877	rVB	405400	610619	1.75%	0.325%
34	20.133	2910	2915	2919	rBV4	308704	538073	1.54%	0.286%

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
Data File : BM014441.D
Acq On : 01 Mar 2018 20:10
Operator : SJ/JU
Sample : J1646-16
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Y0

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

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

Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Title : SVOA CALIBRATION

35	20.797	3024	3028	3031	rBV3	259728	356871	1.02%	0.190%
36	20.862	3036	3039	3048	rVV4	462029	813654	2.33%	0.433%
37	20.933	3048	3051	3056	rVB	298506	373712	1.07%	0.199%
38	21.150	3081	3088	3091	rVV2	2170067	4182557	11.97%	2.225%
39	21.186	3091	3094	3100	rVB	1201171	1441469	4.12%	0.767%
40	21.303	3111	3114	3119	rBV3	551202	700666	2.00%	0.373%
41	21.497	3143	3147	3159	rVB	1209169	2419482	6.92%	1.287%
42	21.921	3211	3219	3227	rBV3	1965185	5360148	15.34%	2.852%
43	22.339	3284	3290	3297	rVB	1793334	3255752	9.32%	1.732%
44	22.686	3345	3349	3353	rBV	677322	1183732	3.39%	0.630%
45	23.156	3422	3429	3433	rBV2	5152159	9491010	27.16%	5.049%
46	23.191	3433	3435	3440	rVV2	1381975	1985243	5.68%	1.056%
47	23.233	3440	3442	3451	rVB	736107	1177855	3.37%	0.627%
48	23.327	3453	3458	3463	rBV2	942633	1718136	4.92%	0.914%
49	23.433	3470	3476	3484	rVB	3305808	6064420	17.35%	3.226%
50	23.556	3487	3497	3518	rVB	11115633	34949464	100.00%	18.594%
51	23.850	3538	3547	3554	rBV	7887917	16869621	48.27%	8.975%
52	23.950	3554	3564	3569	rBV	11050615	23043595	65.93%	12.260%
53	24.097	3583	3589	3591	rBV2	620038	1257597	3.60%	0.669%
54	24.138	3591	3596	3601	rVB	1214056	2374686	6.79%	1.263%
55	24.233	3607	3612	3619	rVV	1419856	2692652	7.70%	1.433%
56	24.321	3621	3627	3637	rVV3	1707990	4219254	12.07%	2.245%
57	24.421	3639	3644	3655	rVB2	999666	2279194	6.52%	1.213%
58	24.838	3710	3715	3723	rVB3	642841	1303685	3.73%	0.694%
59	25.097	3751	3759	3771	rVB2	1225946	3394986	9.71%	1.806%
60	25.421	3806	3814	3822	rVB2	2152366	5598788	16.02%	2.979%
61	25.703	3854	3862	3877	rVB3	1352461	4109738	11.76%	2.186%

Sum of corrected areas: 187961099

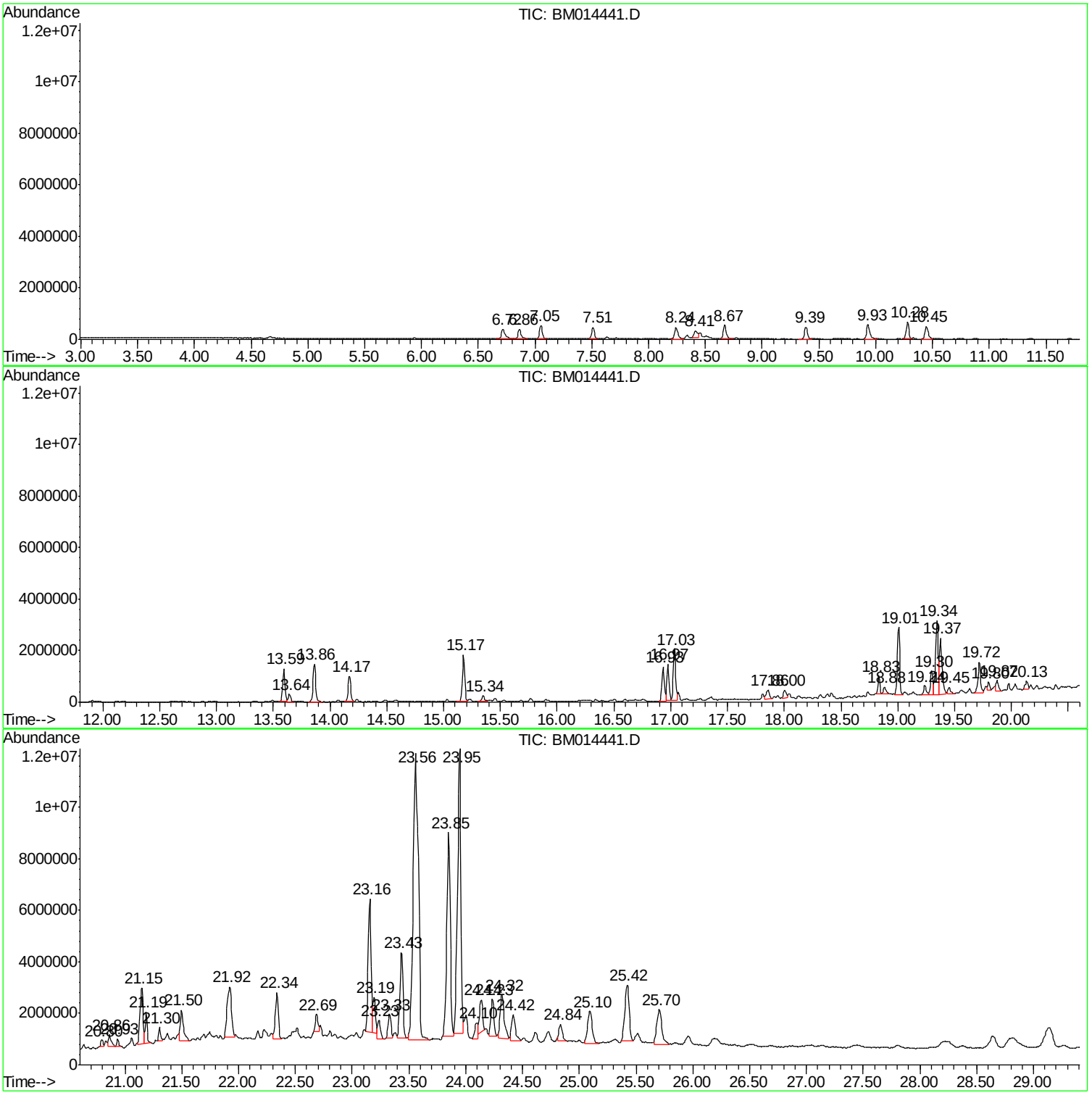
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
Data File : BM014441.D
Acq On : 01 Mar 2018 20:10
Operator : SJ/JU
Sample : J1646-16
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Y0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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



Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
Data File : BM014441.D
Acq On : 01 Mar 2018 20:10
Operator : SJ/JU
Sample : J1646-16
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Y0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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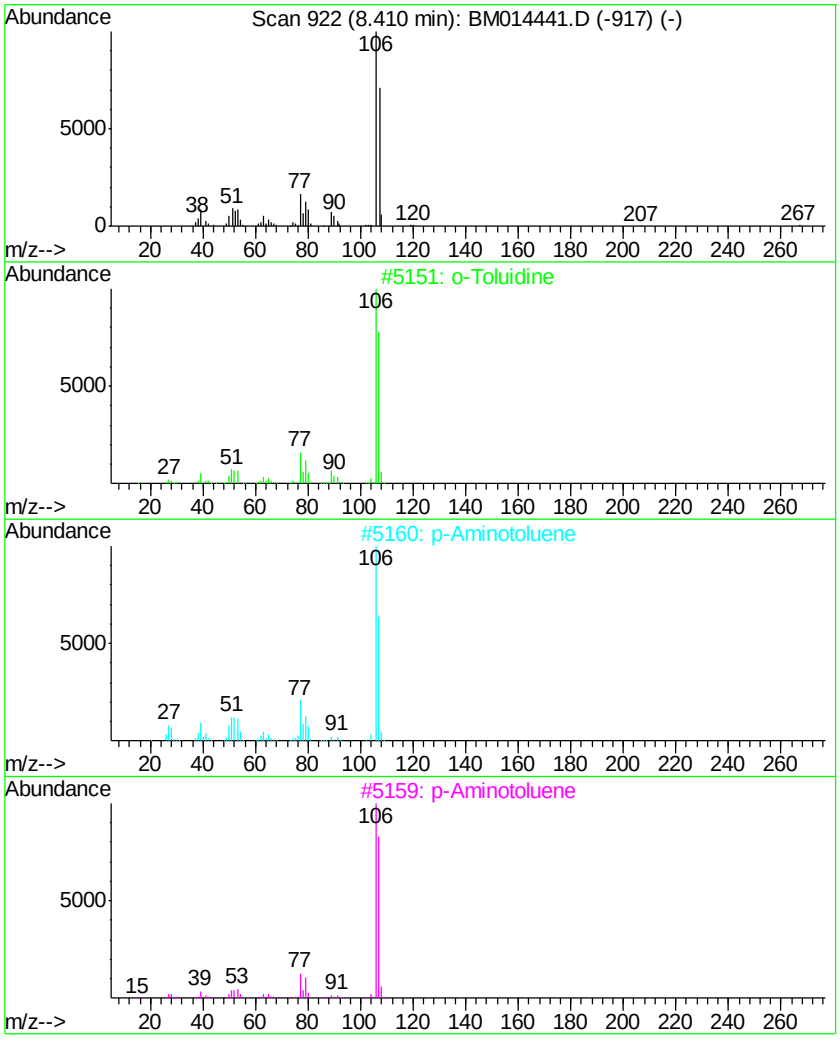
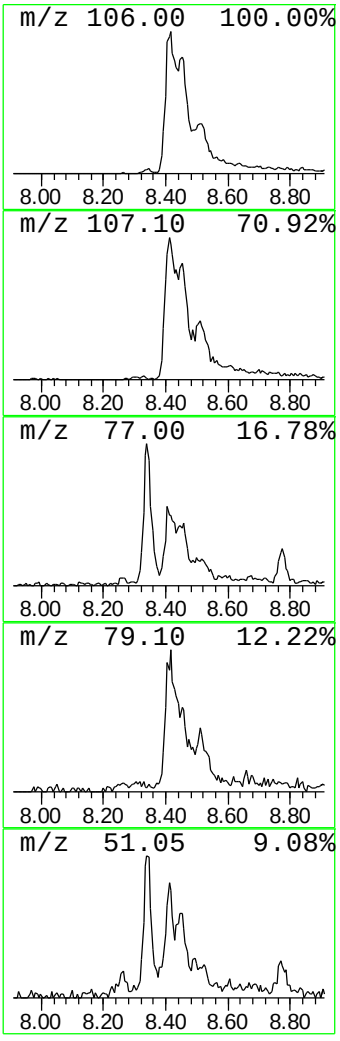
Peak Number 1 o-Toluidine Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.41	17.72 ng/ul	627447	1,4-Dichlorobenzene-d4	7.51

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Toluidine	107	C7H9N	000095-53-4	93
2	p-Aminotoluene	107	C7H9N	000106-49-0	91
3	p-Aminotoluene	107	C7H9N	000106-49-0	90
4	Benzenamine, 3-methyl-	107	C7H9N	000108-44-1	87
5	o-Toluidine	107	C7H9N	000095-53-4	87





Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
Data File : BM014441.D
Acq On : 01 Mar 2018 20:10
Operator : SJ/JU
Sample : J1646-16
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Y0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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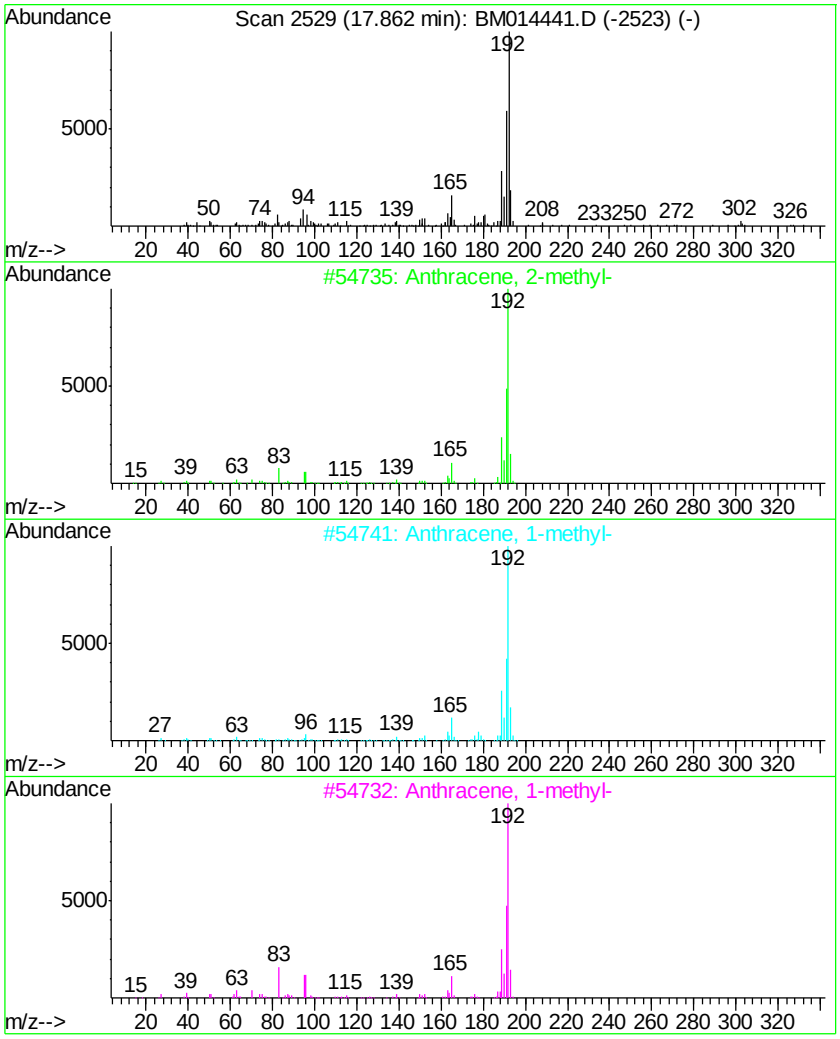
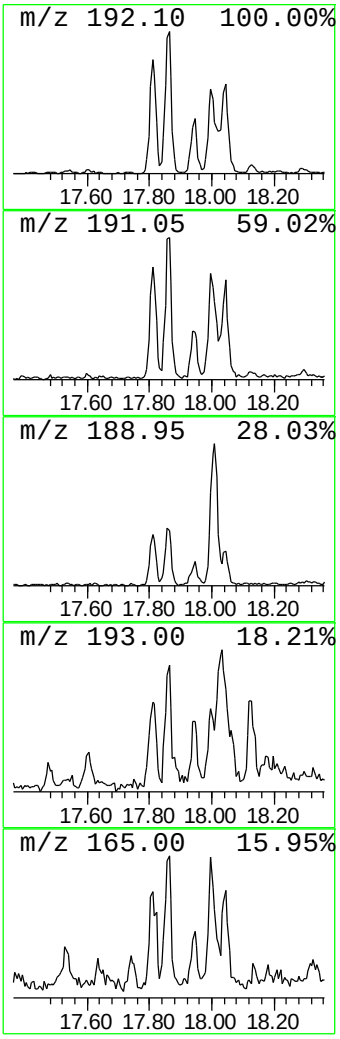
Peak Number 2 Anthracene, 2-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.86	7.26 ng/ul	710312	Phenanthrene-d10	16.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	91
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91





Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
Data File : BM014441.D
Acq On : 01 Mar 2018 20:10
Operator : SJ/JU
Sample : J1646-16
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Y0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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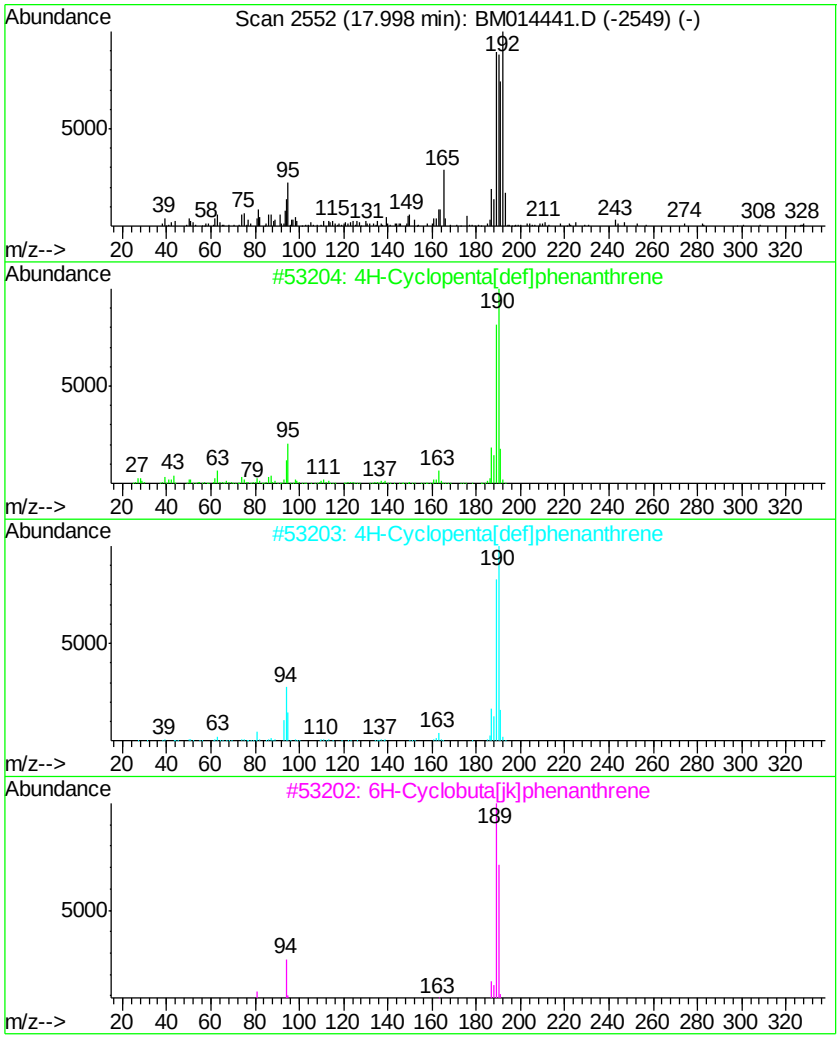
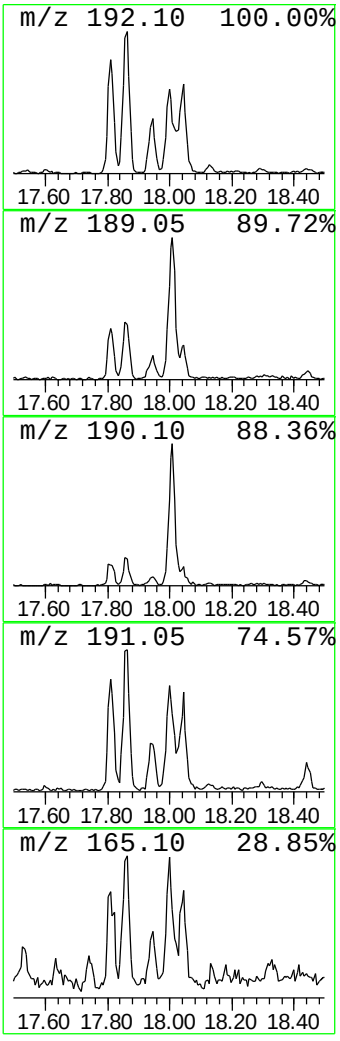
Peak Number 3 4H-Cyclopenta[def]phenanthrene Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.00	5.76 ng/ul	563364	Phenanthrene-d10	16.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	60
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	52
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	52
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	50
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	38





Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
Data File : BM014441.D
Acq On : 01 Mar 2018 20:10
Operator : SJ/JU
Sample : J1646-16
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Y0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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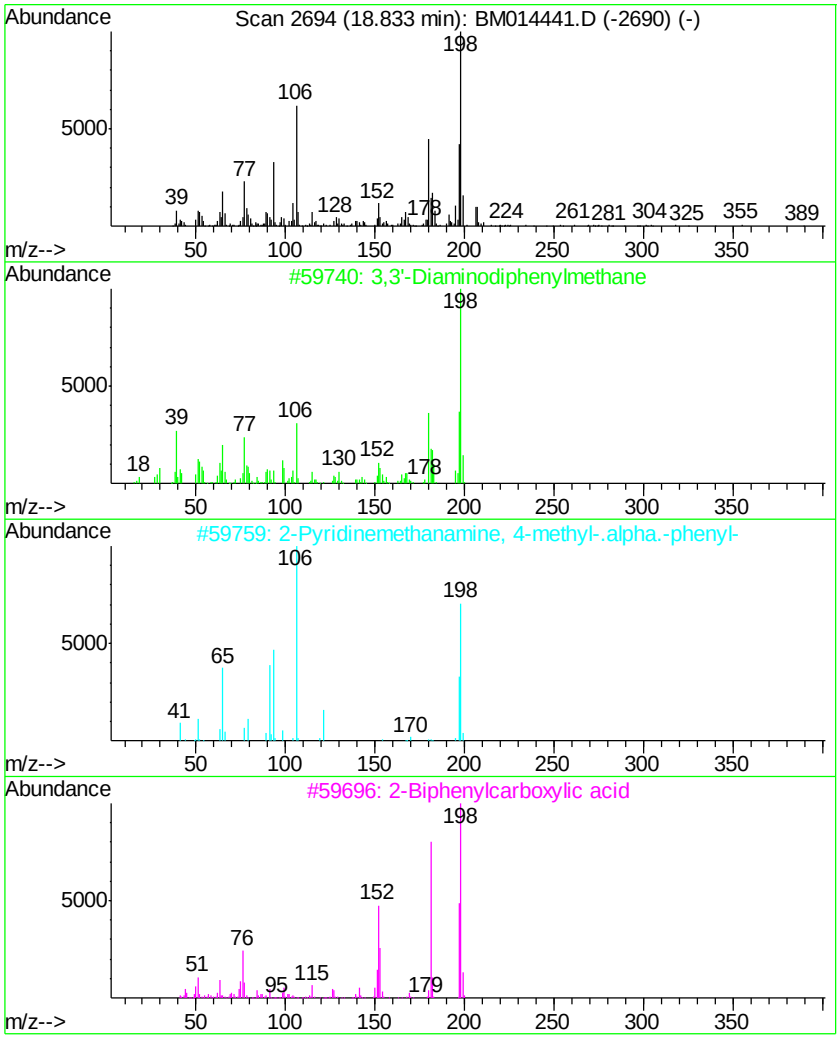
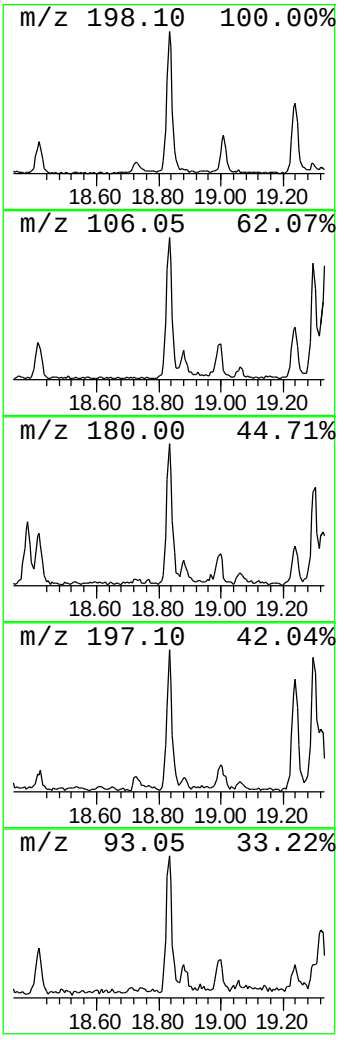
Peak Number 4 3,3'-Diaminodiphenylmethane Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.83	8.50 ng/ul	831146	Phenanthrene-d10	16.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3,3'-Diaminodiphenylmethane	198	C13H14N2	019471-12-6	78
2	2-Pyridinemethanamine, 4-methyl-...	198	C13H14N2	058088-62-3	50
3	2-Biphenylcarboxylic acid	198	C13H10O2	000947-84-2	43
4	Dibenzothiophene, 3-methyl-	198	C13H10S	016587-52-3	43
5	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	43





Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
Data File : BM014441.D
Acq On : 01 Mar 2018 20:10
Operator : SJ/JU
Sample : J1646-16
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Y0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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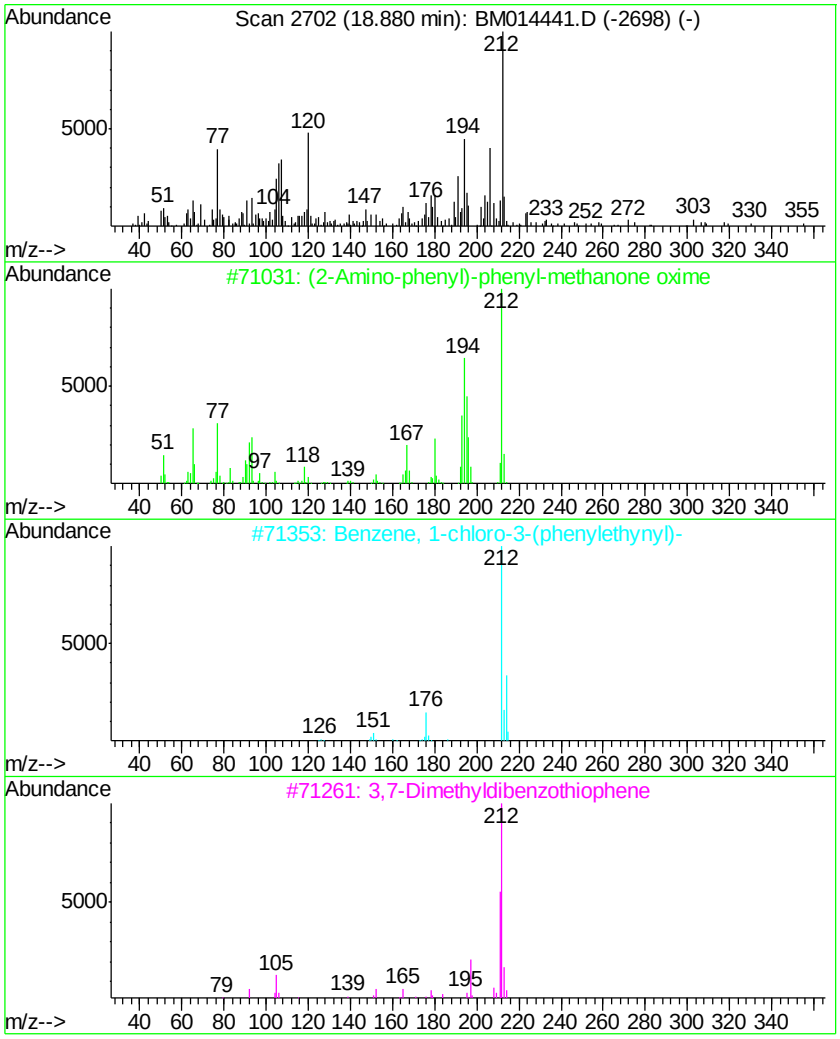
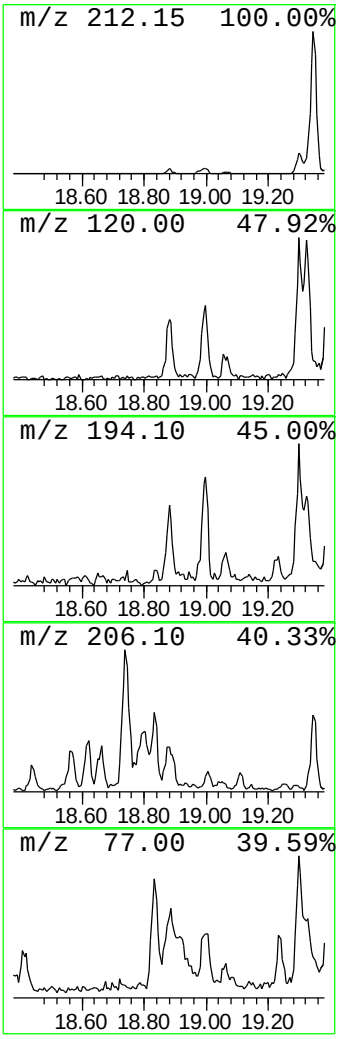
Peak Number 5 unknown-01 Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.88	4.53 ng/ul	442974	Phenanthrene-d10	16.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(2-Amino-phenyl)-phenyl-methanon...	212	C13H12N2O	051674-05-6	30
2	Benzene, 1-chloro-3-(phenylethyn...	212	C14H9Cl	051624-34-1	27
3	3,7-Dimethyldibenzothiophene	212	C14H12S	001136-85-2	25
4	1,2-Methylenedioxy-4,5-dinitrobe...	212	C7H4N2O6	007748-59-6	25
5	3-(4-Methoxy-phenylamino)-2-meth...	266	C17H18N2O	1000287-73-1	22





Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
Data File : BM014441.D
Acq On : 01 Mar 2018 20:10
Operator : SJ/JU
Sample : J1646-16
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Y0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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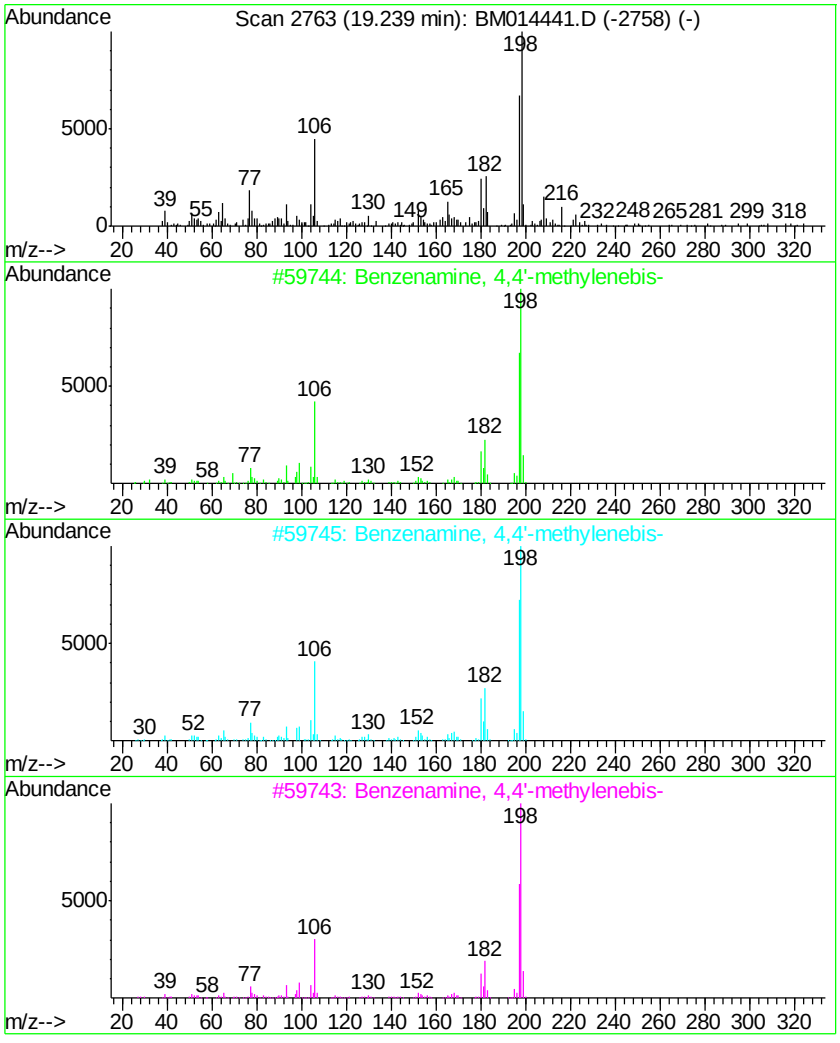
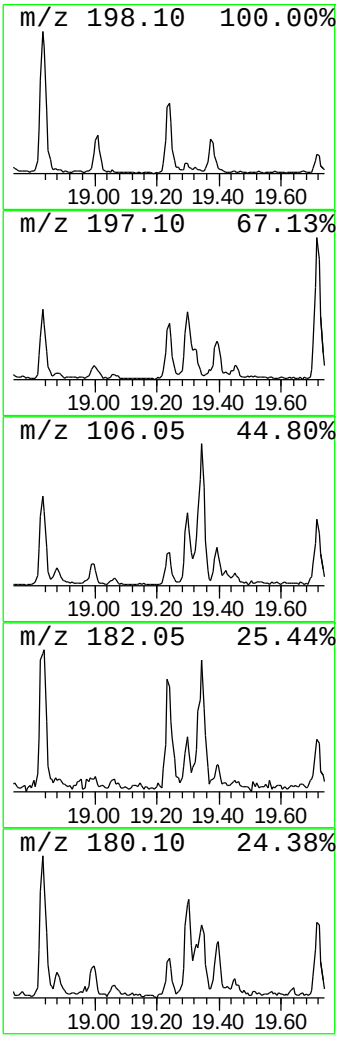
Peak Number 6 Benzenamine, 4,4'-methylene... Concentration Rank 26

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.24	2.74 ng/ul	573817	Chrysene-d12	21.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	93
2	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	93
3	Benzenamine, 4,4'-methylenebis-	198	C13H14N2	000101-77-9	93
4	Tacrine	198	C13H14N2	000321-64-2	60
5	Tacrine	198	C13H14N2	000321-64-2	53





Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
Data File : BM014441.D
Acq On : 01 Mar 2018 20:10
Operator : SJ/JU
Sample : J1646-16
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Y0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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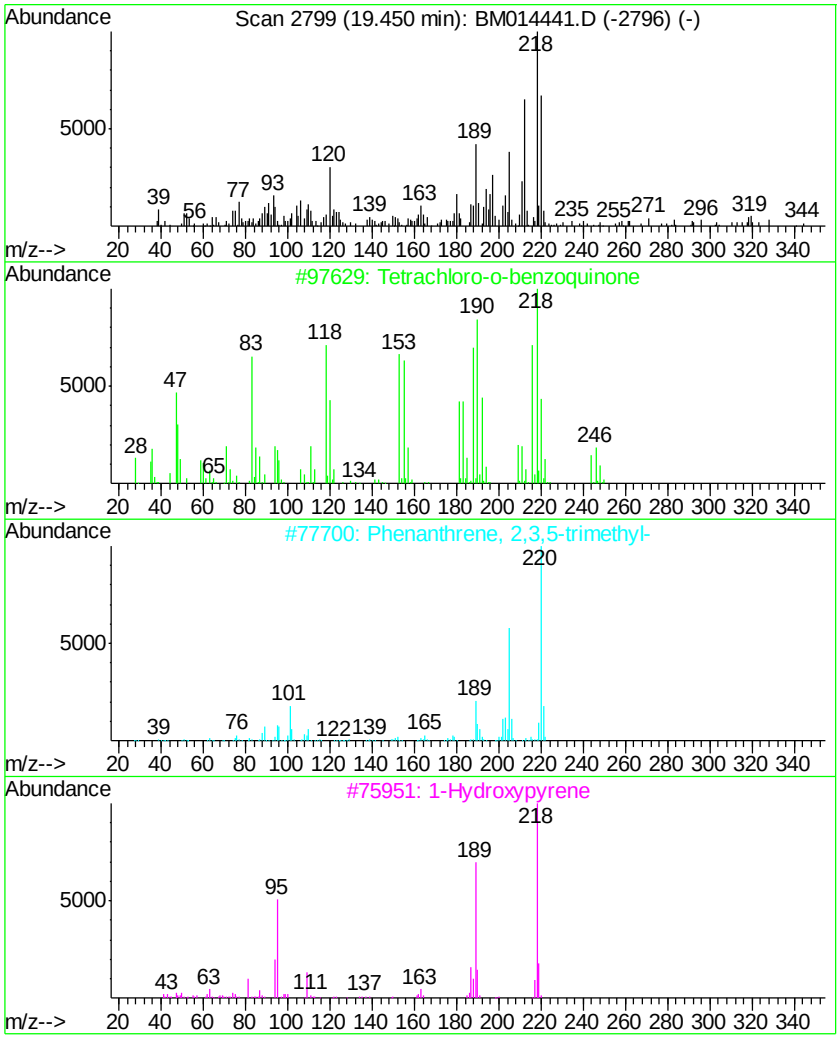
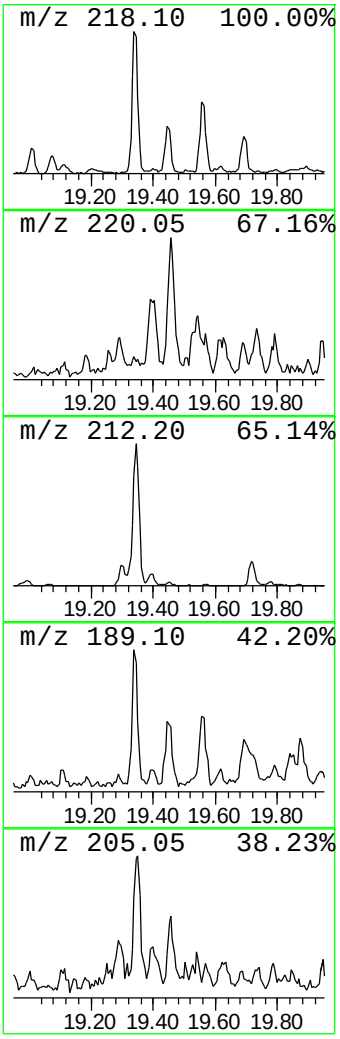
Peak Number 7 Tetrachloro-o-benzoquinone Concentration Rank 28

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.45	2.09 ng/ul	438067	Chrysene-d12	21.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetrachloro-o-benzoquinone	244	C6Cl4O2	002435-53-2	53
2	Phenanthrene, 2,3,5-trimethyl-	220	C17H16	003674-73-5	35
3	1-Hydroxypyrene	218	C16H10O	005315-79-7	27
4	5,6-Dichloro-4,7-dioxo-4,7-dihyd...	218	C6Cl2N2O3	1000110-72-9	27
5	Indeno[2,1-b]chromene,	218	C16H10O	000243-24-3	27





Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
Data File : BM014441.D
Acq On : 01 Mar 2018 20:10
Operator : SJ/JU
Sample : J1646-16
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Y0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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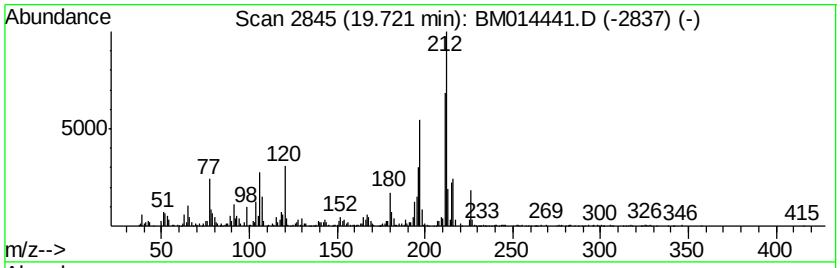
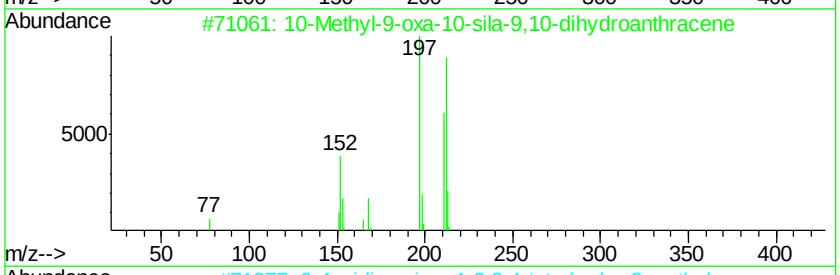
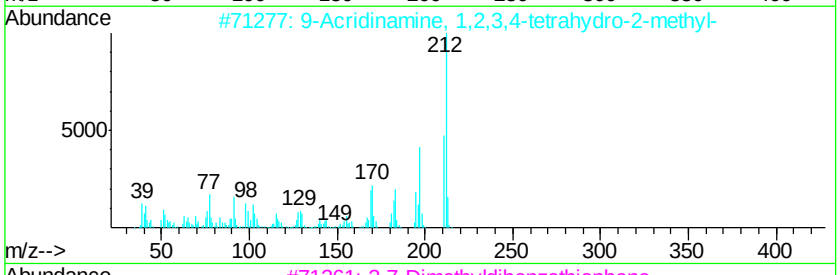
Peak Number 8 10-Methyl-9-oxa-10-sila-9,1... Concentration Rank 18

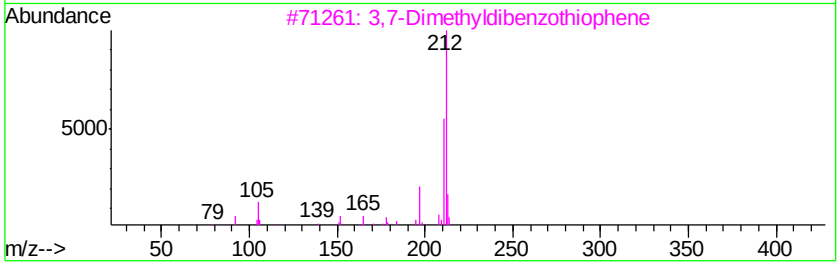
R.T.	EstConc	Area	Relative to ISTD	R.T.
19.72	9.41 ng/ul	1968360	Chrysene-d12	21.15

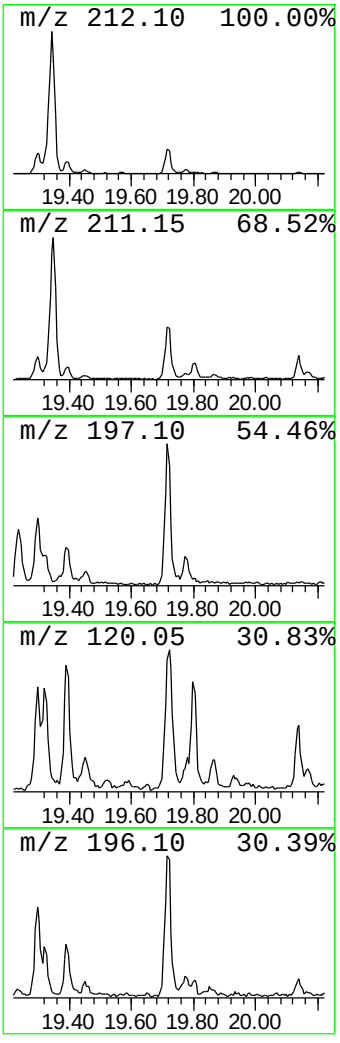
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	10-Methyl-9-oxa-10-sila-9,10-dih...	212	C13H12OSi	074637-38-0	64
2	9-Acridinamine, 1,2,3,4-tetrahyd...	212	C14H16N2	1000337-15-9	47
3	3,7-Dimethyldibenzothiophene	212	C14H12S	001136-85-2	47
4	2,5-Dimethyl-4-(3-amino-4-methyl...	212	C14H16N2	071153-33-8	47
5	[1,1'-Biphenyl]-4,4'-diamine, 3,...	212	C14H16N2	000119-93-7	46











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Acq On : 01 Mar 2018 20:10
Operator : SJ/JU
Sample : J1646-16
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Y0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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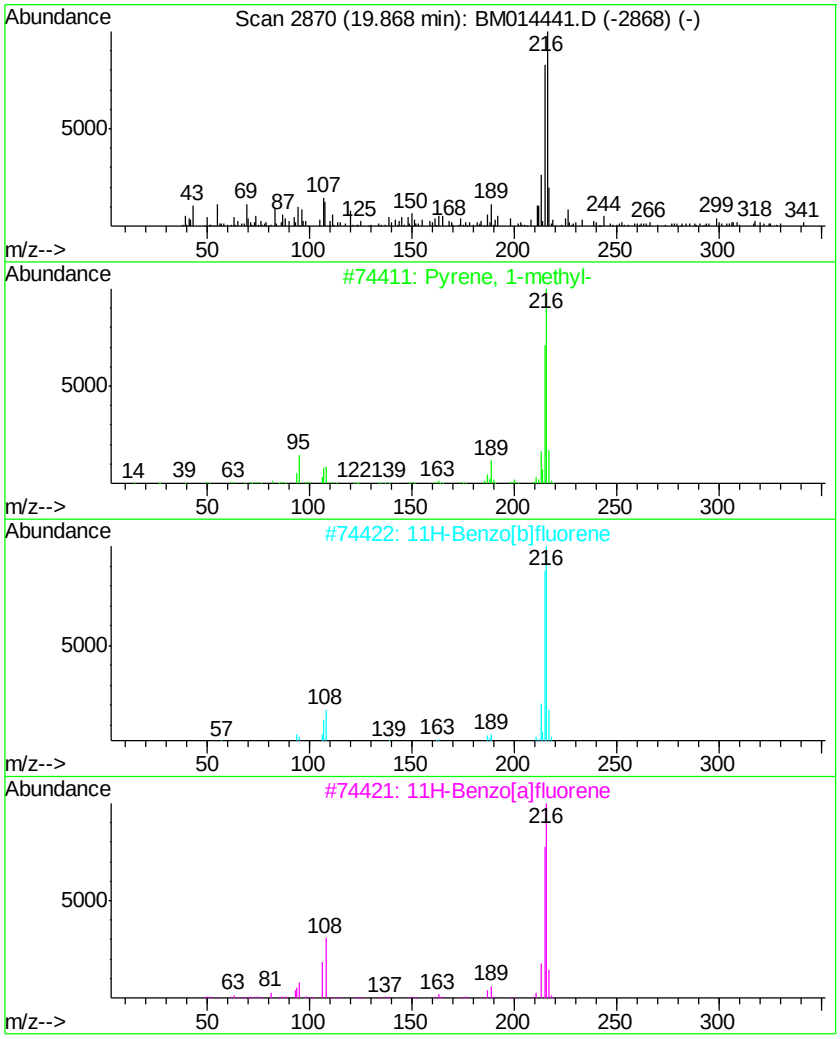
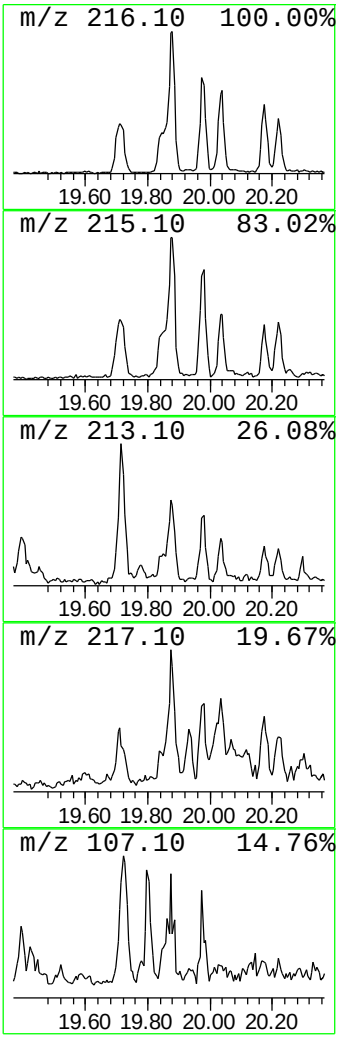
Peak Number 9 Pyrene, 1-methyl- Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.87	2.92 ng/ul	610619	Chrysene-d12	21.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	83
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	81
3	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	81
4	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	80
5	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	80





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Quant Title : SVOA CALIBRATION

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

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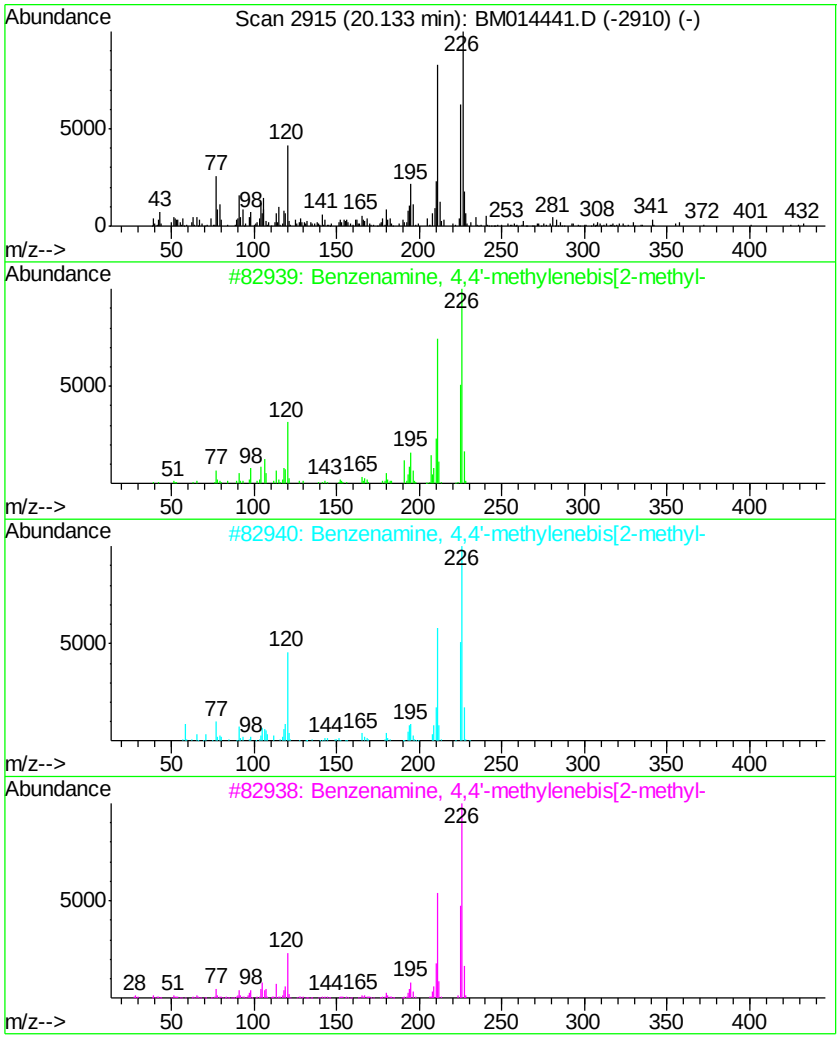
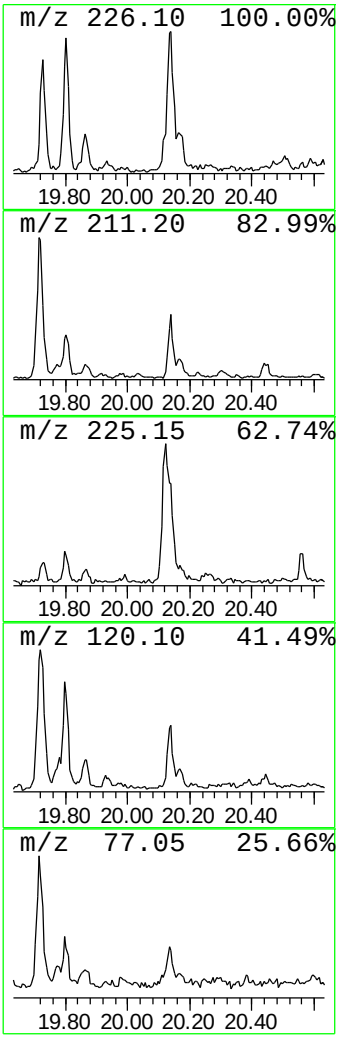
Peak Number 10 Benzenamine, 4,4'-methylene... Concentration Rank 27

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.13	2.57 ng/ul	538073	Chrysene-d12	21.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzenamine, 4,4'-methylenebis[2...	226	C15H18N2	000838-88-0	96
2	Benzenamine, 4,4'-methylenebis[2...	226	C15H18N2	000838-88-0	95
3	Benzenamine, 4,4'-methylenebis[2...	226	C15H18N2	000838-88-0	95
4	1-Ethyl-4-methoxy-9H-pyrido[3,4-...	226	C14H14N2O	026585-14-8	59
5	5(10H)-Pyrido[3,4-b]quinolone, 7...	226	C13H10N2O2	1000256-99-5	53





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ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Y0

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Quant Title : SVOA CALIBRATION

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

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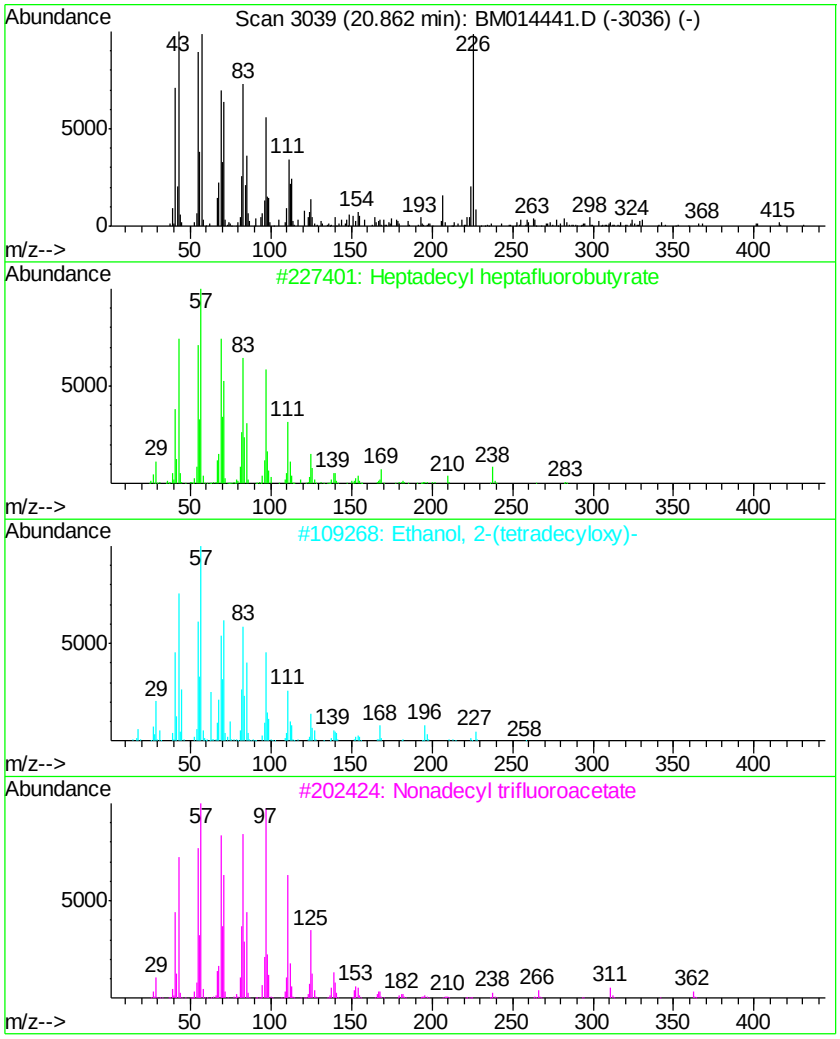
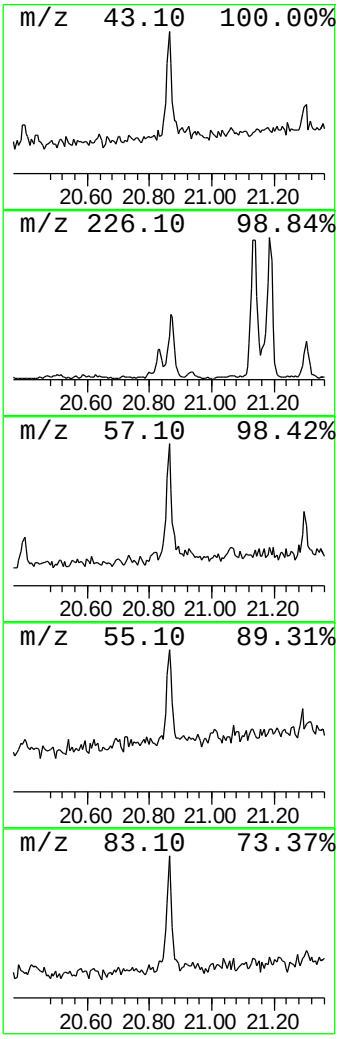
Peak Number 11 Heptadecyl heptafluorobutyrate Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.86	3.89 ng/ul	813654	Chrysene-d12	21.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	64
2	Ethanol, 2-(tetradecyloxy)-	258	C16H34O2	002136-70-1	64
3	Nonadecyl trifluoroacetate	380	C21H39F3O2	1000351-76-3	60
4	Cyclohexadecane	224	C16H32	000295-65-8	60
5	1-Tricosene	322	C23H46	018835-32-0	60





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Quant Title : SVOA CALIBRATION

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

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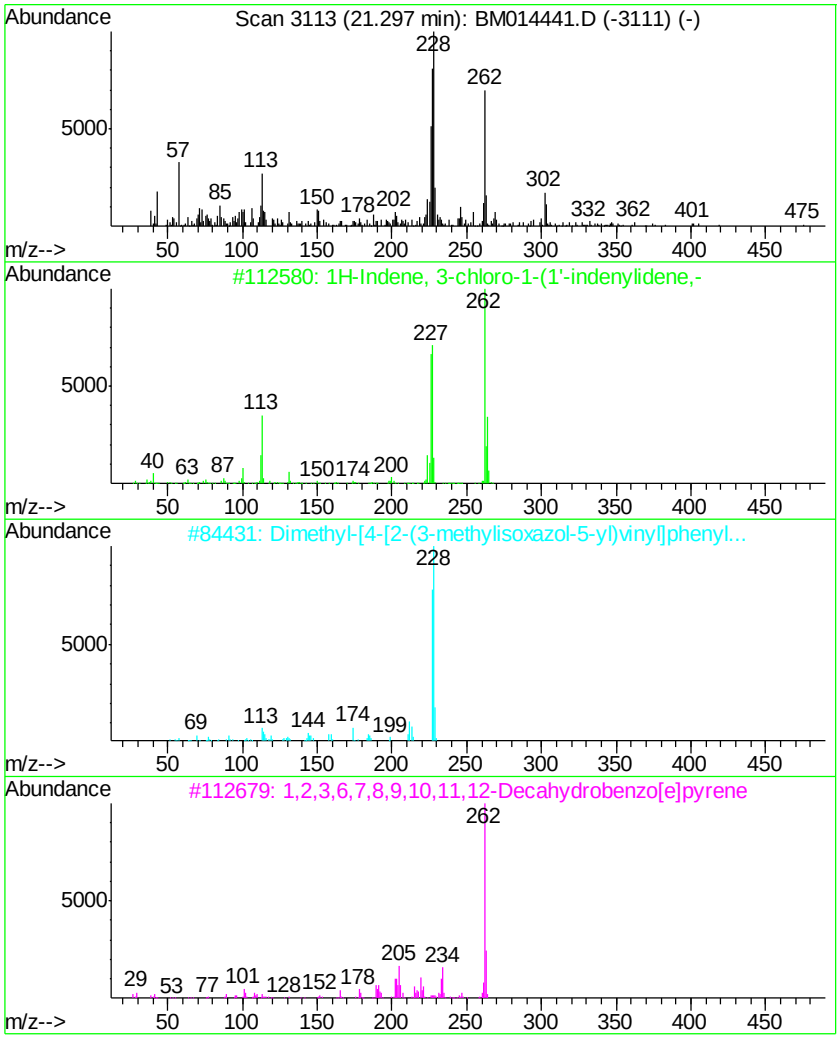
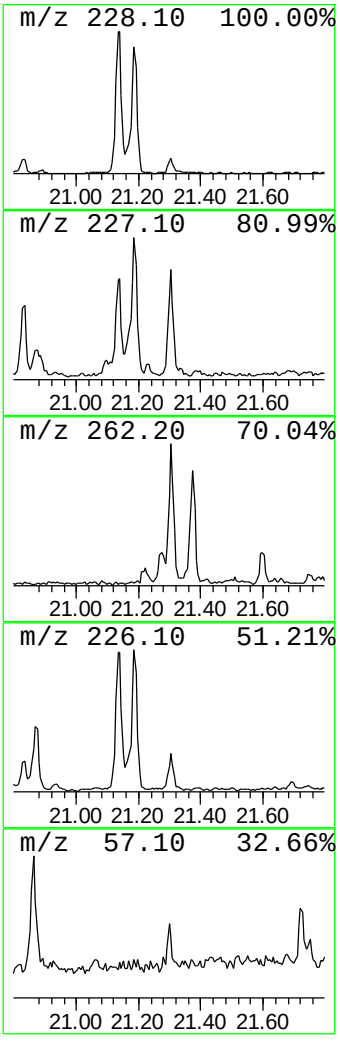
Peak Number 12 1H-Indene, 3-chloro-1-(1'-i... Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.30	3.35 ng/ul	700666	Chrysene-d12	21.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 3-chloro-1-(1'-indenyl...	262	C18H11Cl	1000153-65-5	52
2	Dimethyl-[4-[2-(3-methylisoxazol...	228	C14H16N2O	1000306-39-6	35
3	1,2,3,6,7,8,9,10,11,12-Decahydro...	262	C20H22	092387-50-3	18
4	2,2'-Binaphthalene, 5,5',6,6',7,...	262	C20H22	118761-48-1	18
5	Naphthacene	228	C18H12	000092-24-0	15





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Quant Title : SVOA CALIBRATION

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

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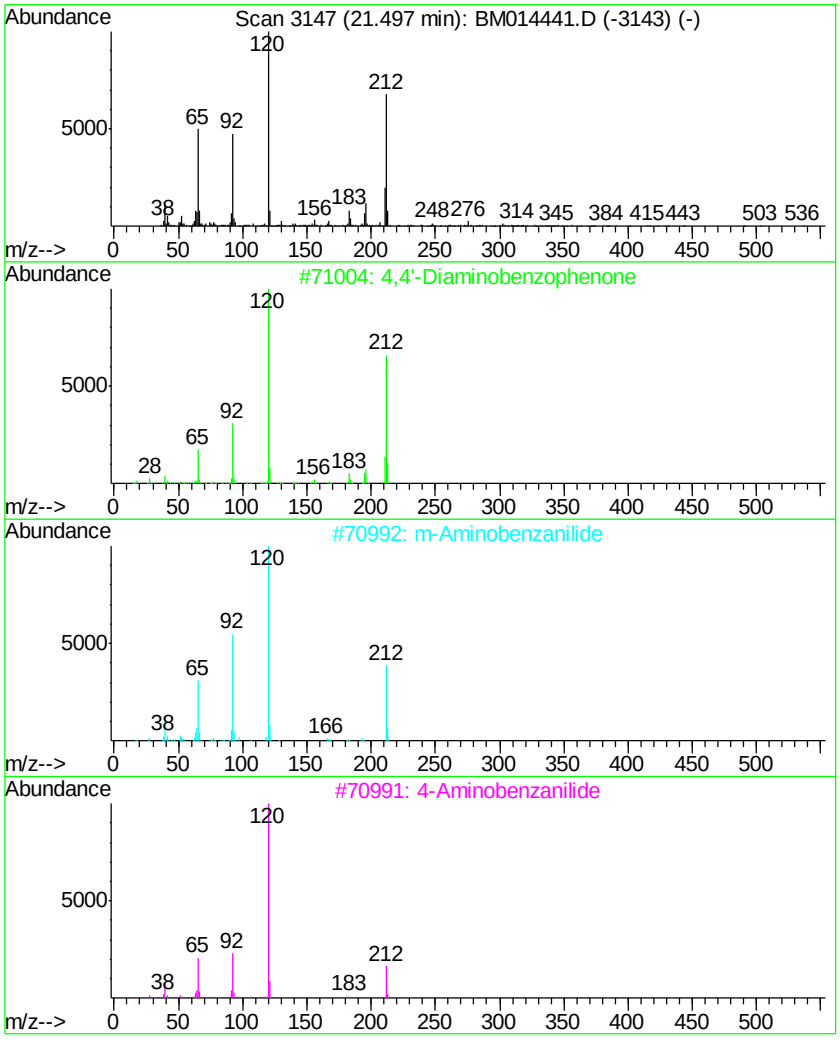
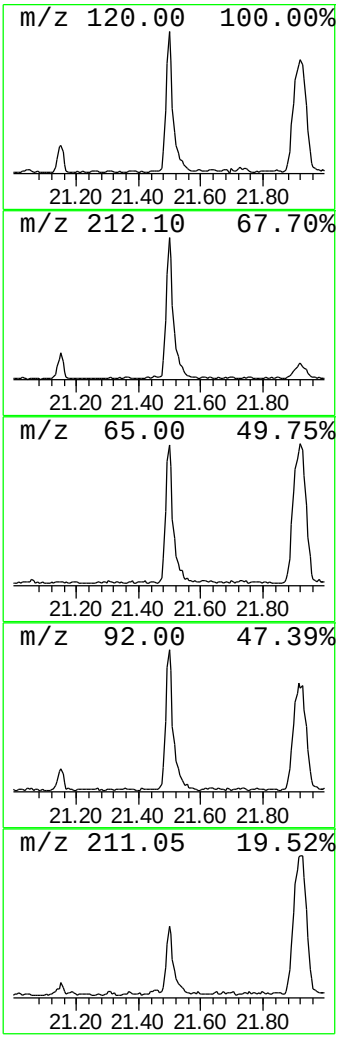
Peak Number 13 4,4'-Diaminobenzophenone Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.50	11.57 ng/ul	2419480	Chrysene-d12	21.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4,4'-Diaminobenzophenone	212	C13H12N2O	000611-98-3	90
2	m-Aminobenzanilide	212	C13H12N2O	016091-26-2	87
3	4-Aminobenzanilide	212	C13H12N2O	000782-45-6	81
4	Benzene, 1-methyl-2-nitro-	137	C7H7NO2	000088-72-2	59
5	Benzamide, 2-amino-N-cyclopropyl-	176	C10H12N2O	1000337-72-4	59





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Quant Title : SVOA CALIBRATION

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

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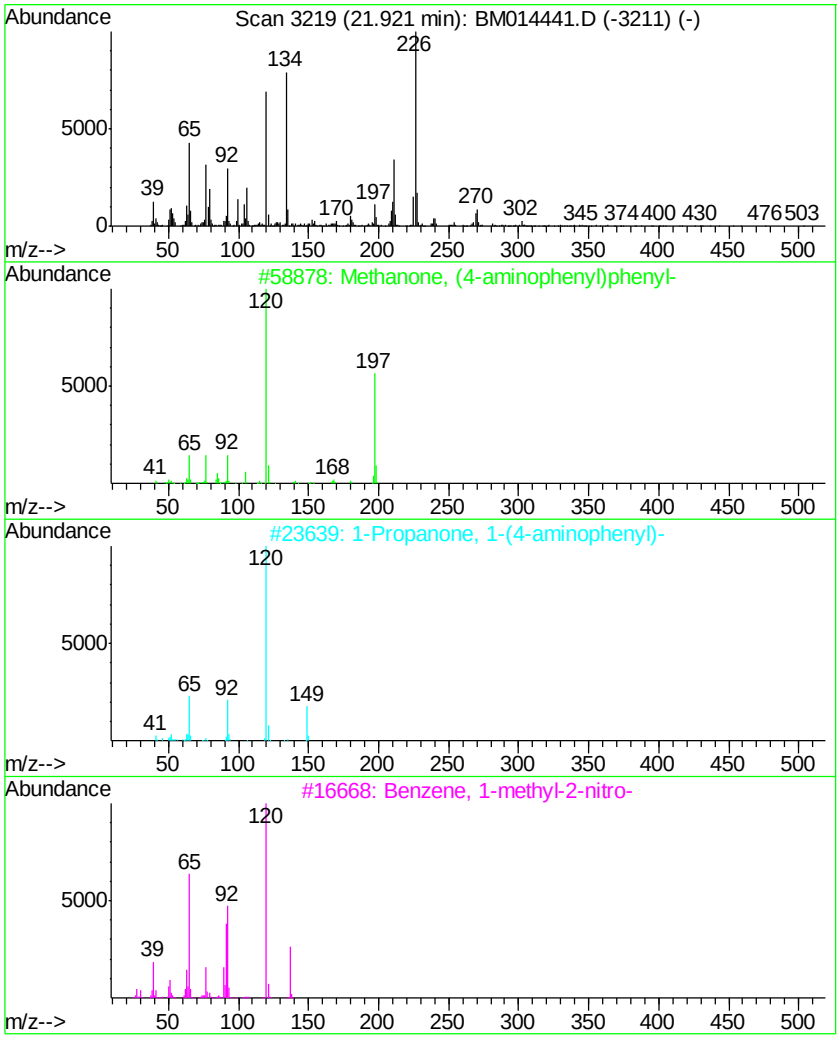
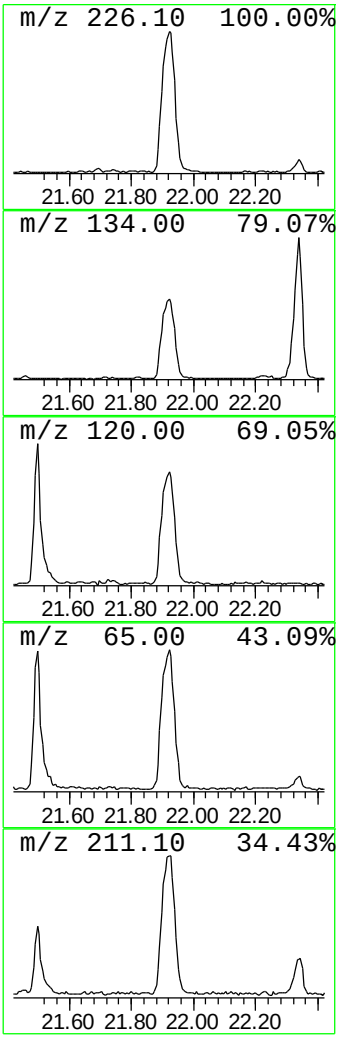
Peak Number 14 Methanone, (4-aminophenyl)p... Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.92	25.63 ng/ul	5360150	Chrysene-d12	21.15

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methanone, (4-aminophenyl)phenyl-	197	C13H11NO	001137-41-3	45
2	1-Propanone, 1-(4-aminophenyl)-	149	C9H11NO	000070-69-9	38
3	Benzene, 1-methyl-2-nitro-	137	C7H7NO2	000088-72-2	38
4	Benzene, 1-methyl-2-nitro-	137	C7H7NO2	000088-72-2	38
5	Benzoic acid, 2-amino-, phenyl e...	213	C13H11NO2	010268-69-6	38





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Sample : J1646-16
Misc :
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Instrument : BNA_M
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Quant Title : SVOA CALIBRATION

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

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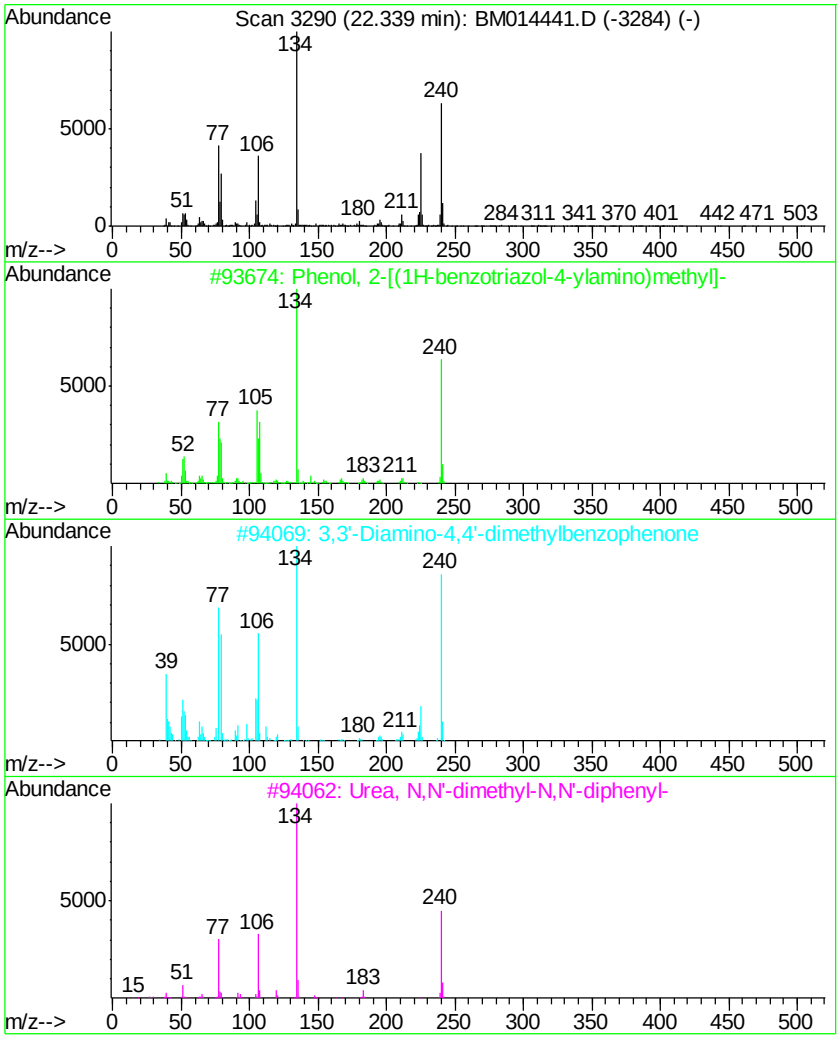
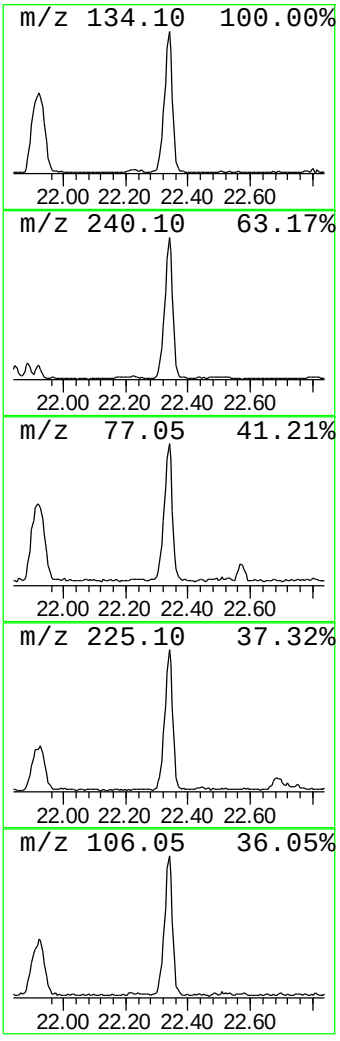
Peak Number 15 Phenol, 2-[(1H-benzotriazol... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.34	37.90 ng/ul	3255750	Perylene-d12	23.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenol, 2-[(1H-benzotriazol-4-yl...	240	C13H12N4O	1000316-17-9	80
2	3,3'-Diamino-4,4'-dimethylbenzop...	240	C15H16N2O	313518-54-6	68
3	Urea, N,N'-dimethyl-N,N'-diphenyl-	240	C15H16N2O	000611-92-7	68
4	2H-Benzimidazol-2-one, 1,3-dihydro-	134	C7H6N2O	000615-16-7	38
5	4,4'-Bis(methylamino)benzophenone	240	C15H16N2O	003708-39-2	38





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Quant Title : SVOA CALIBRATION

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

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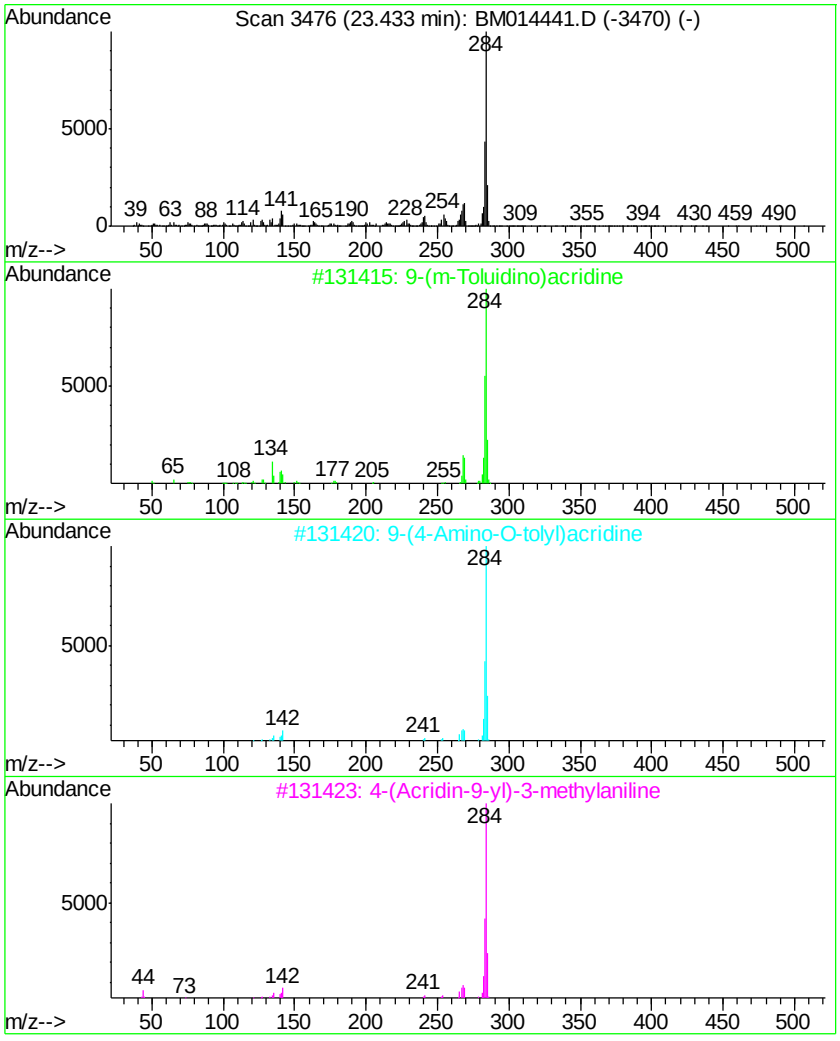
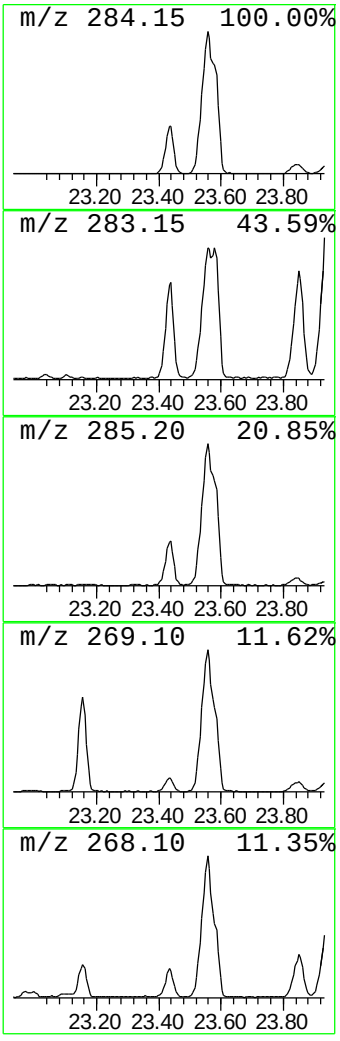
Peak Number 16 9-(m-Toluidino)acridine Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.43	70.59 ng/ul	6064420	Perylene-d12	23.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-(m-Toluidino)acridine	284	C20H16N2	080260-72-6	94
2	9-(4-Amino-O-tolyl)acridine	284	C20H16N2	030189-60-7	94
3	4-(Acridin-9-yl)-3-methylaniline	284	C20H16N2	1000326-84-6	93
4	2-(9-Acridinyl)-4-methylbenzenea...	284	C20H16N2	035586-77-7	93
5	Propenone, 1-(benzo[b]-1,4-dioxa...	284	C17H13FO3	133188-35-9	86





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Quant Title : SVOA CALIBRATION

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

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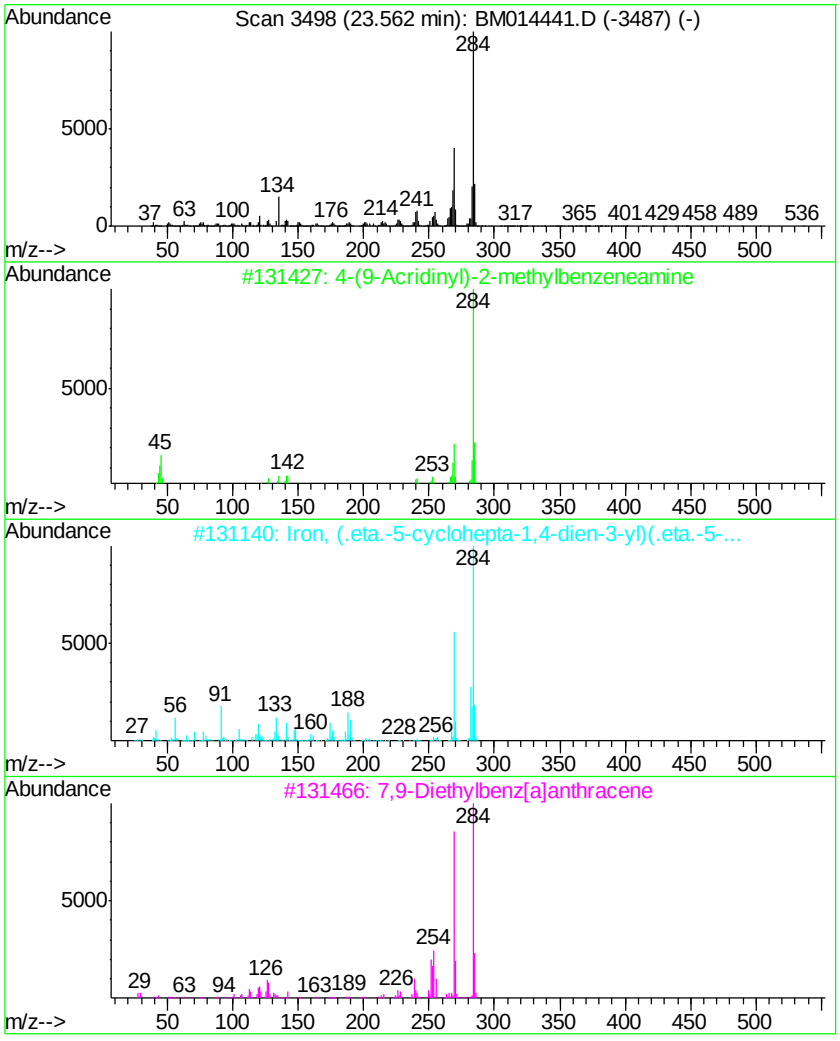
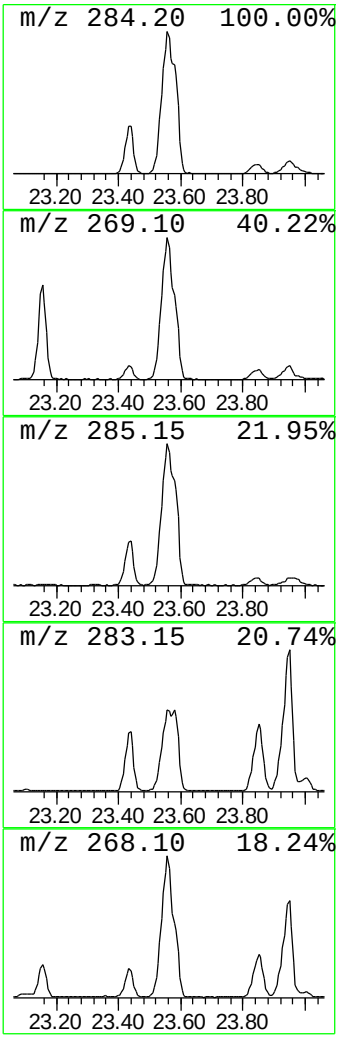
Peak Number 17 4-(9-Acridinyl)-2-methylben... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.56	406.83 ng/ul	34949500	Perylene-d12	23.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-(9-Acridinyl)-2-methylbenzenea...	284	C20H16N2	035586-76-6	93
2	Iron, (.eta.-5-cyclohepta-1,4-di...	284	C17H24Fe	1000162-47-6	68
3	7,9-Diethylbenz[a]anthracene	284	C22H20	038678-91-0	58
4	7-Hydroxy-2-(3-hydroxy-4-methoxy...	284	C16H12O5	020575-57-9	58
5	4-Methyl-2-(4-methylquinolin-2-y...	284	C20H16N2	1000326-82-1	58





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Instrument : BNA_M
ClientSampleId : BE5Y0

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Quant Title : SVOA CALIBRATION

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

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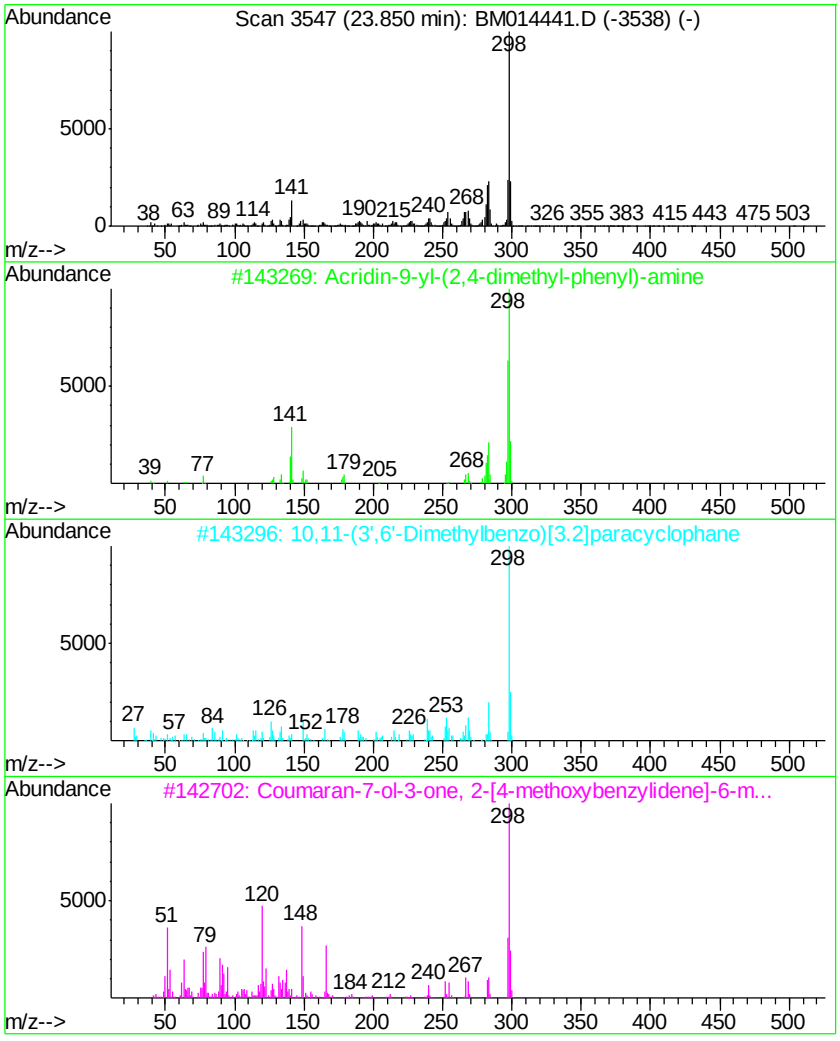
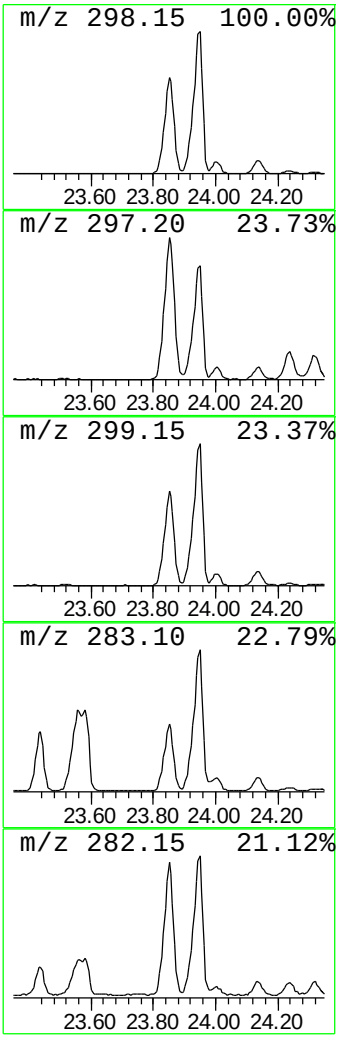
Peak Number 18 Acridin-9-yl-(2,4-dimethyl-... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
23.85	196.37 ng/ul	16869600	Perylene-d12	23.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acridin-9-yl-(2,4-dimethyl-phenyl...	298	C21H18N2	1000317-48-1	87
2	10,11-(3',6'-Dimethylbenzo)[3.2]...	298	C23H22	121732-64-7	64
3	Coumaran-7-ol-3-one, 2-[4-methox...	298	C17H14O5	1000129-33-3	62
4	2-(3-Hydroxy-4-methoxyphenyl)-3-...	298	C17H14O5	093322-40-8	58
5	(10-Methyl-10H-acridin-9-ylidene...	298	C21H18N2	1000317-91-1	58





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Operator : SJ/JU
Sample : J1646-16
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Y0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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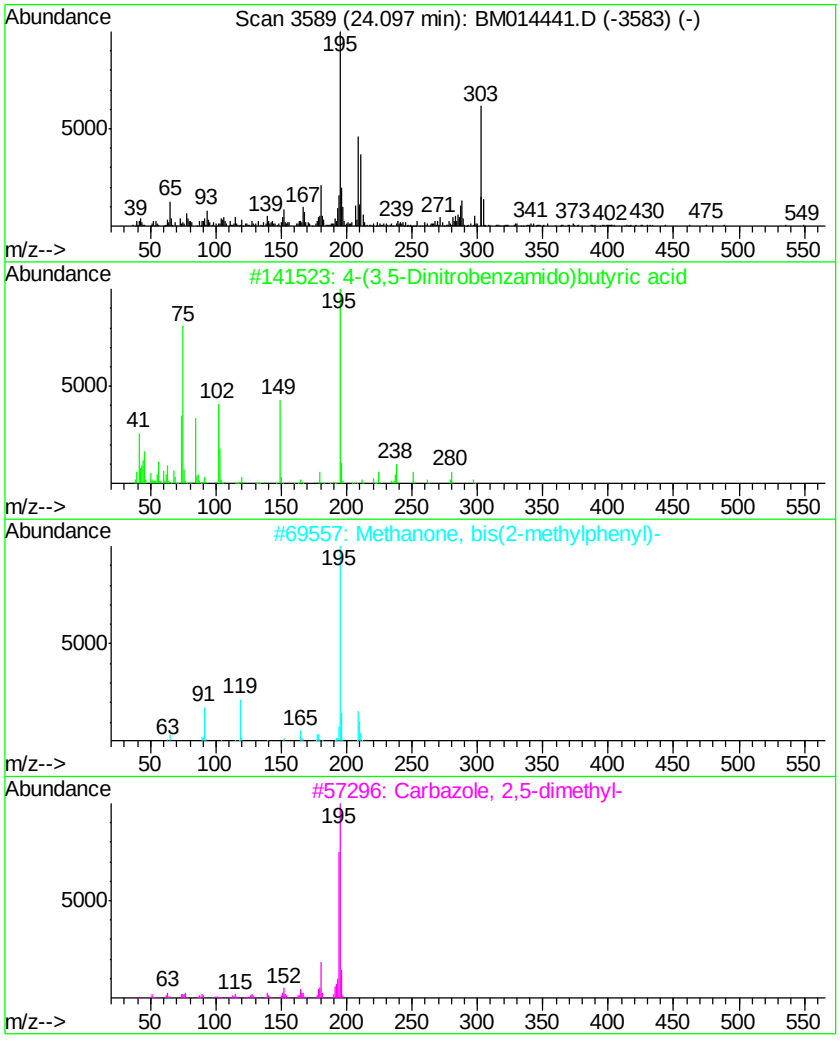
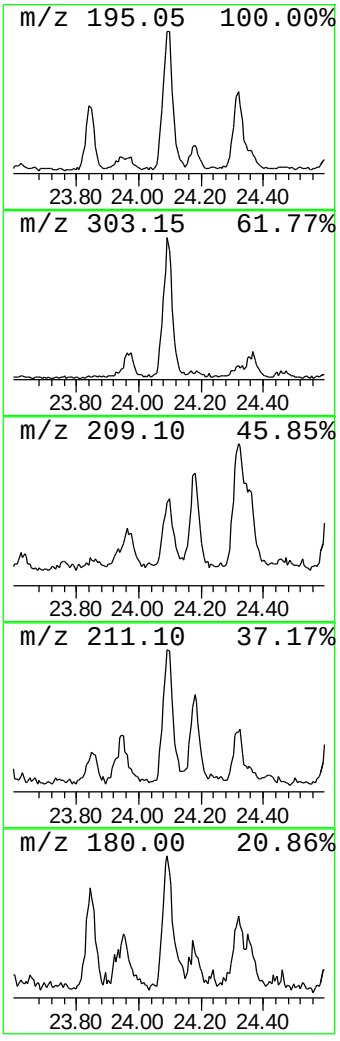
Peak Number 20 4-(3,5-Dinitrobenzamido)but... Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.10	14.64 ng/ul	1257600	Perylene-d12	23.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-(3,5-Dinitrobenzamido)butyric ...	297	C11H11N3O7	102202-82-4	60
2	Methanone, bis(2-methylphenyl)-	210	C15H14O	001018-97-9	43
3	Carbazole, 2,5-dimethyl-	195	C14H13N	078787-79-8	38
4	Carbazole, 2,7-dimethyl-	195	C14H13N	018992-65-9	38
5	Benzenamine, 4-methyl-N-(phenylm...	195	C14H13N	002272-45-9	30





Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
Data File : BM014441.D
Acq On : 01 Mar 2018 20:10
Operator : SJ/JU
Sample : J1646-16
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Y0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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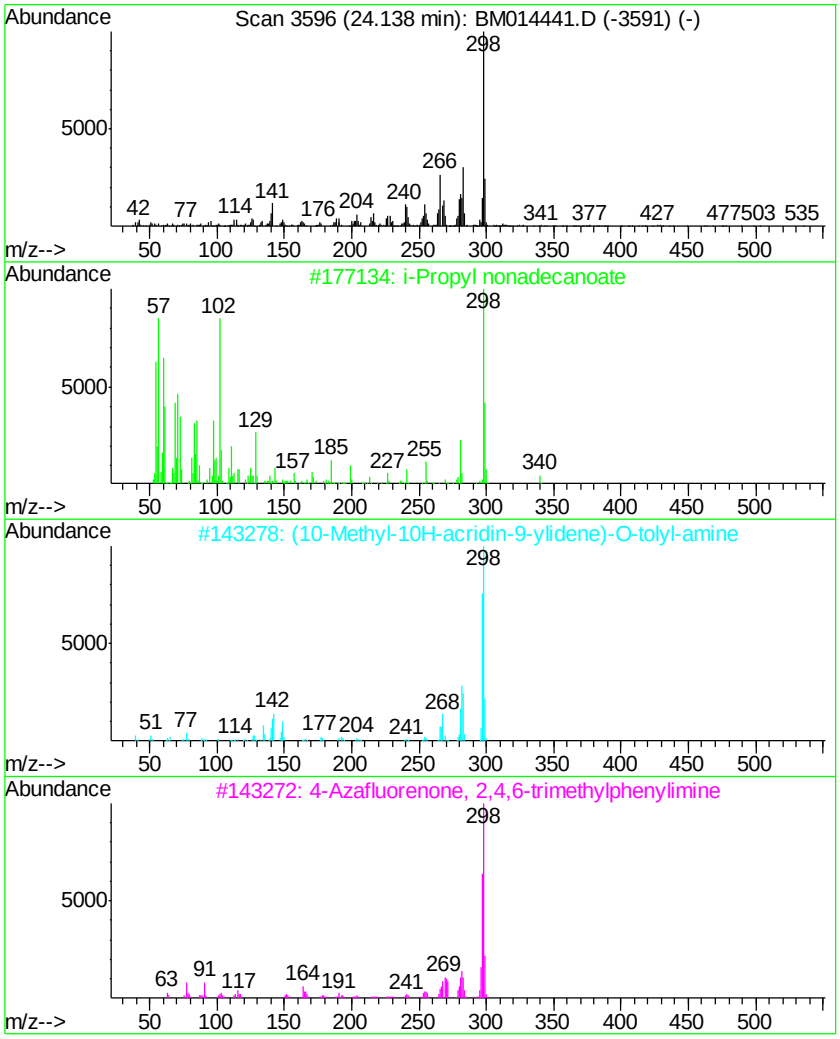
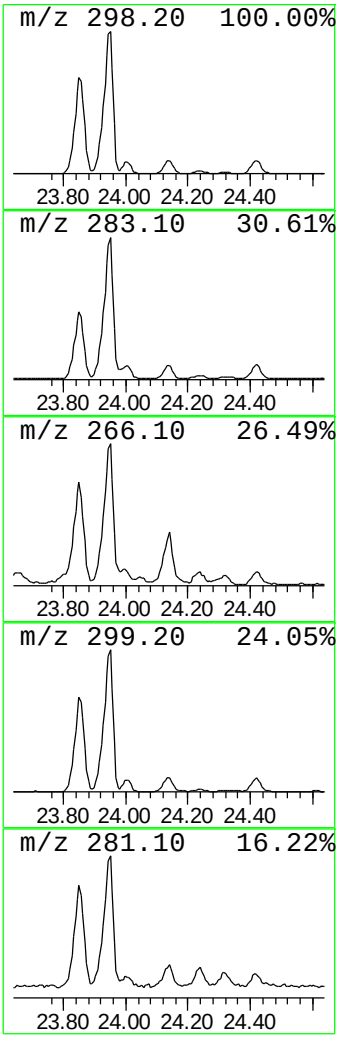
Peak Number 21 i-Propyl nonadecanoate Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.14	27.64 ng/ul	2374690	Perylene-d12	23.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	i-Propyl nonadecanoate	340	C22H44O2	1000336-76-2	93
2	(10-Methyl-10H-acridin-9-ylidene...	298	C21H18N2	1000317-91-1	89
3	4-Azafluorenone, 2,4,6-trimethyl...	298	C21H18N2	1000216-54-7	76
4	10,11-(3',6'-Dimethylbenzo)[3.2]...	298	C23H22	121732-64-7	64
5	10,11-(4',5'-Dimethylbenzo[3.2]p...	298	C23H22	121732-62-5	59





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Acq On : 01 Mar 2018 20:10
Operator : SJ/JU
Sample : J1646-16
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Y0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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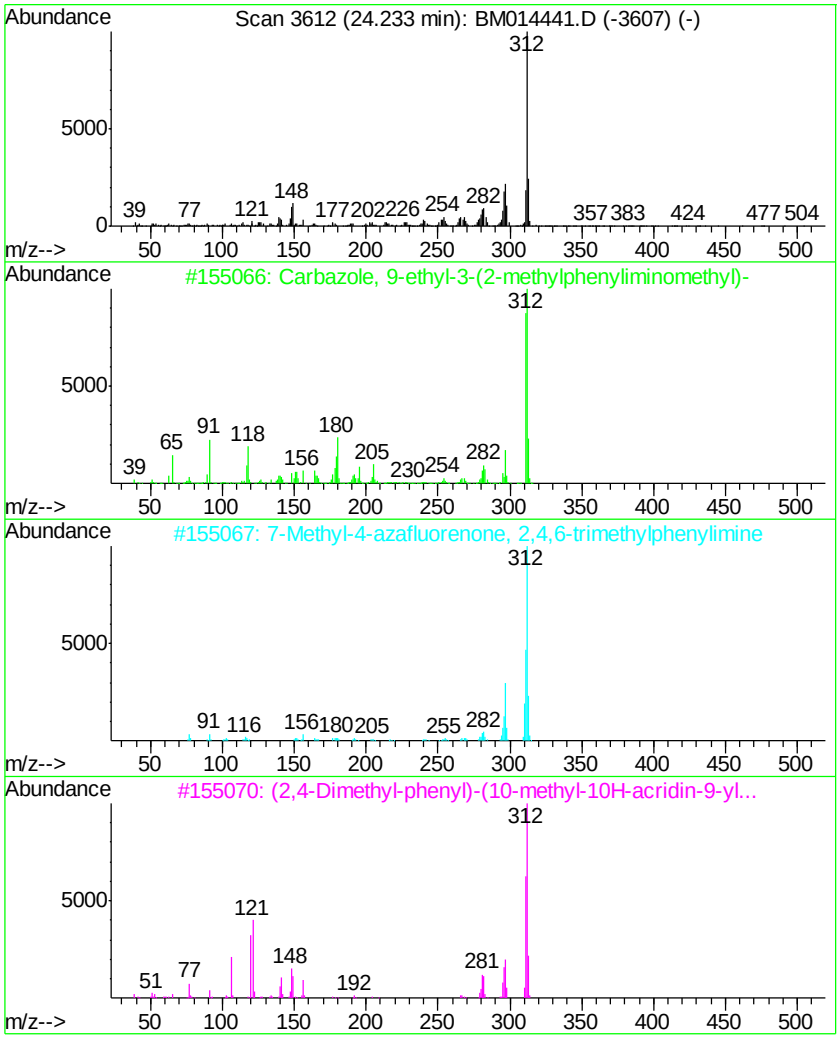
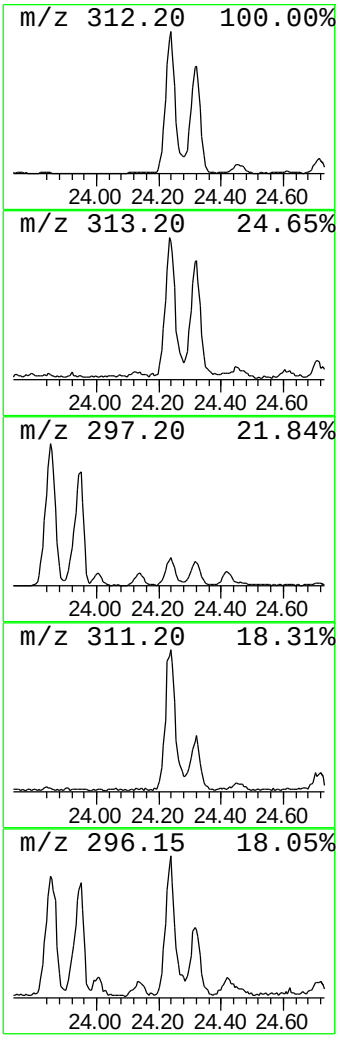
Peak Number 22 Carbazole, 9-ethyl-3-(2-met... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.23	31.34 ng/ul	2692650	Perylene-d12	23.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbazole, 9-ethyl-3-(2-methylph...	312	C22H20N2	312264-94-1	89
2	7-Methyl-4-azafluorenone, 2,4,6-...	312	C22H20N2	1000216-54-8	86
3	(2,4-Dimethyl-phenyl)-(10-methyl...	312	C22H20N2	1000317-66-4	74
4	3-Methyl-1-(2-toluidino)pyrido[1...	312	C20H16N4	1000331-84-2	64
5	3,3'-Dimethylnaphthidine	312	C22H20N2	013138-48-2	58





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Data File : BM014441.D
Acq On : 01 Mar 2018 20:10
Operator : SJ/JU
Sample : J1646-16
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Y0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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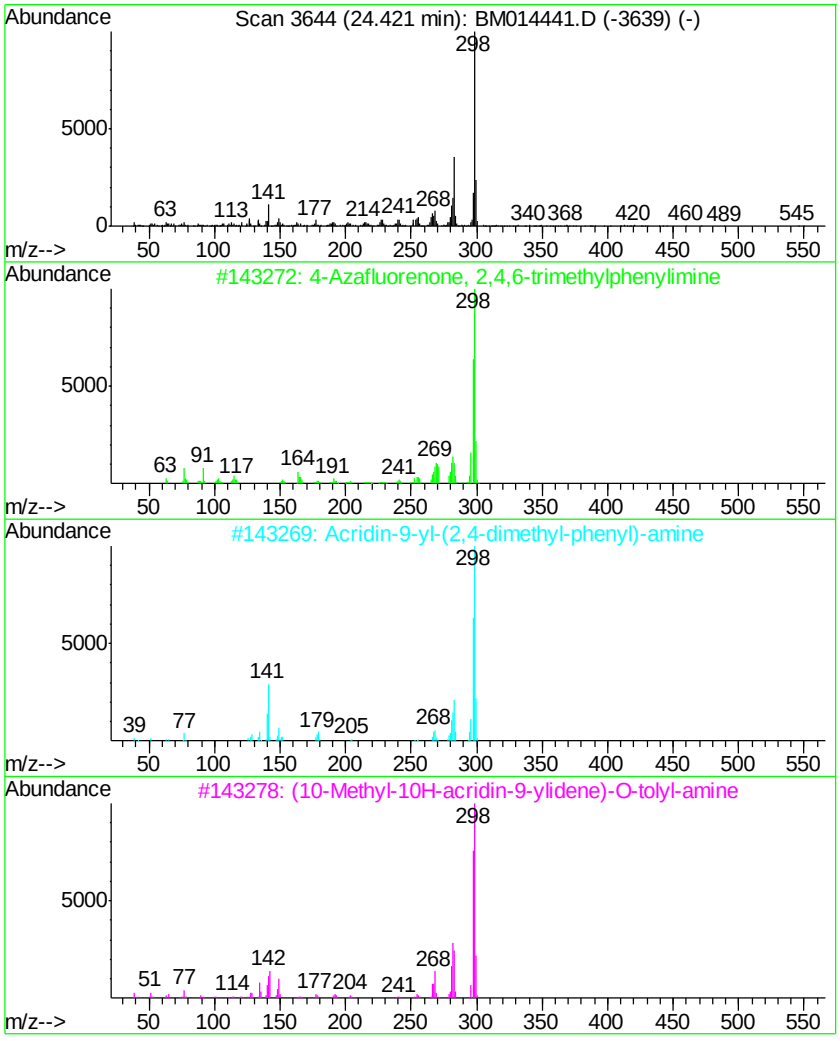
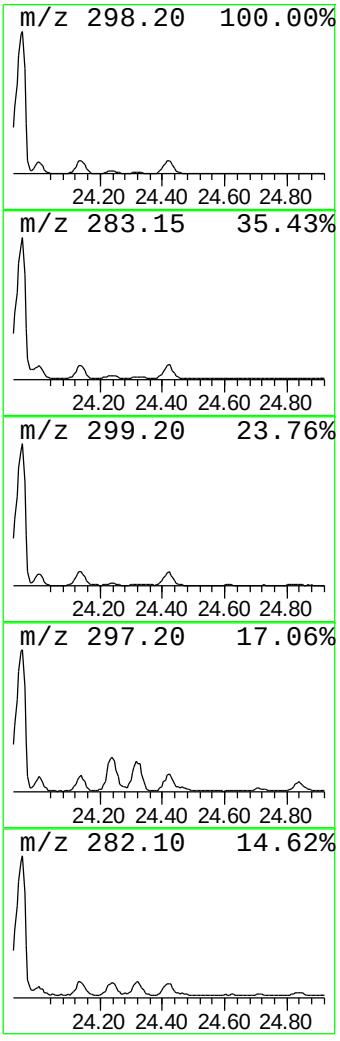
Peak Number 24 4-Azafluorenone, 2,4,6-trim... Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.42	26.53 ng/ul	2279190	Perylene-d12	23.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Azafluorenone, 2,4,6-trimethyl...	298	C21H18N2	1000216-54-7	91
2	Acridin-9-yl-(2,4-dimethyl-phenyl...	298	C21H18N2	1000317-48-1	87
3	(10-Methyl-10H-acridin-9-ylidene...	298	C21H18N2	1000317-91-1	64
4	(10-Methyl-10H-acridin-9-ylidene...	298	C21H18N2	1000317-84-0	64
5	2-(3-Hydroxy-4-methoxyphenyl)-3-...	298	C17H14O5	093322-40-8	64





Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
Data File : BM014441.D
Acq On : 01 Mar 2018 20:10
Operator : SJ/JU
Sample : J1646-16
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Y0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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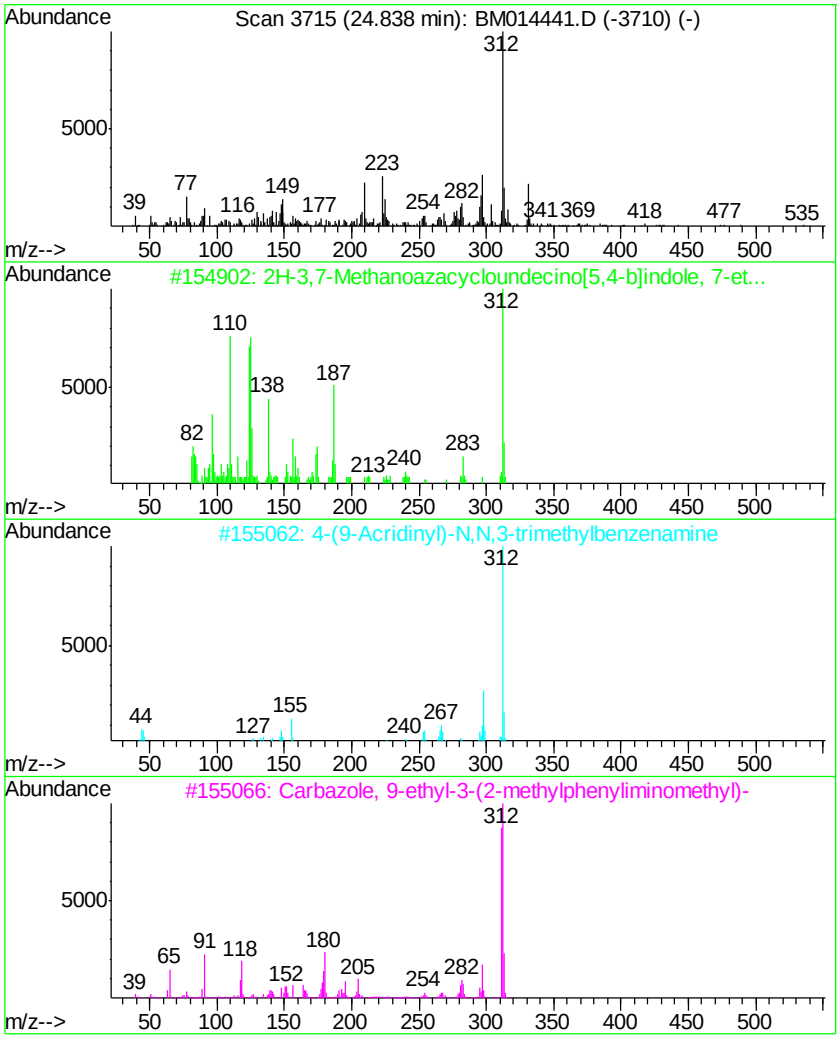
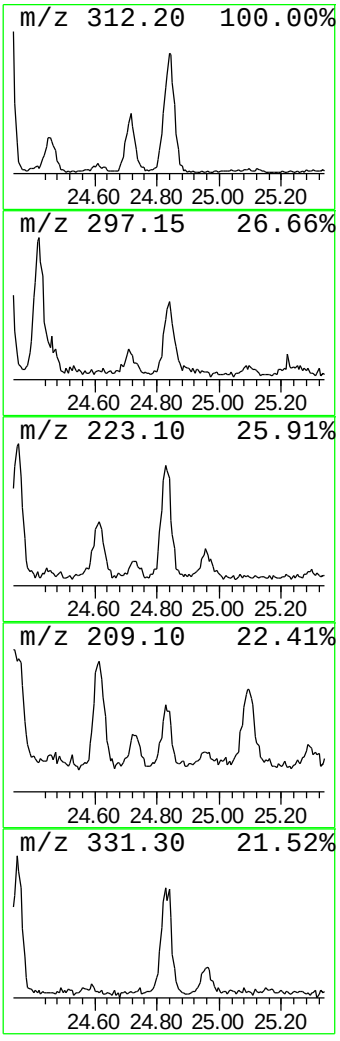
Peak Number 25 2H-3,7-Methanoazacycloundec... Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
24.84	15.18 ng/ul	1303690	Perylene-d12	23.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2H-3,7-Methanoazacycloundecino[5...	312	C20H28N2O	014358-58-8	86
2	4-(9-Acridinyl)-N,N,3-trimethylb...	312	C22H20N2	035586-79-9	78
3	Carbazole, 9-ethyl-3-(2-methylph...	312	C22H20N2	312264-94-1	58
4	7-Methoxy-3-(3,4-dimethoxyphenyl...	312	C18H16O5	001621-61-0	55
5	2-Naphthylamine, N-methyl-1-(2-d...	312	C22H20N2	1000159-17-0	53





Data Path : Z:\HPCHEM1\BNA M\DATA\BM030118\
Data File : BM014441.D
Acq On : 01 Mar 2018 20:10
Operator : SJ/JU
Sample : J1646-16
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Y0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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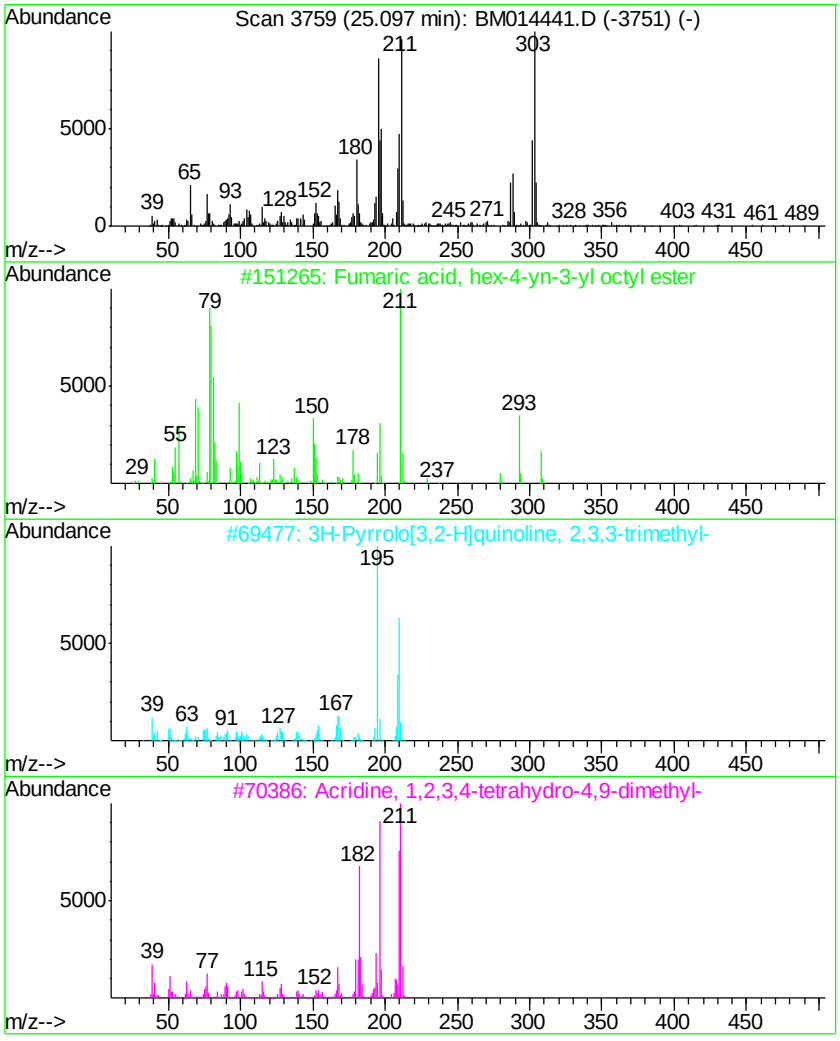
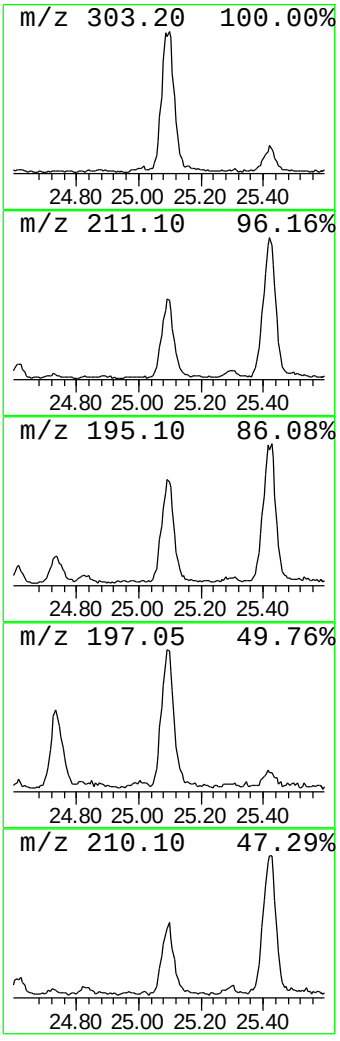
Peak Number 26 Fumaric acid, hex-4-yn-3-yl... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.10	39.52 ng/ul	3394990	Perylene-d12	23.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fumaric acid, hex-4-yn-3-yl octy...	308	C18H28O4	1000345-30-8	53
2	3H-Pyrrolo[3,2-H]quinoline, 2,3,...	210	C14H14N2	083958-38-7	53
3	Acridine, 1,2,3,4-tetrahydro-4,9...	211	C15H17N	055030-65-4	30
4	N-Acridin-9-yl-N'-(4-fluoro-phen...	303	C19H14FN3	1000318-06-7	20
5	2,4-Bis(p-aminobenzyl)aniline	303	C20H21N3	025834-80-4	18





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Data File : BM014441.D
Acq On : 01 Mar 2018 20:10
Operator : SJ/JU
Sample : J1646-16
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Y0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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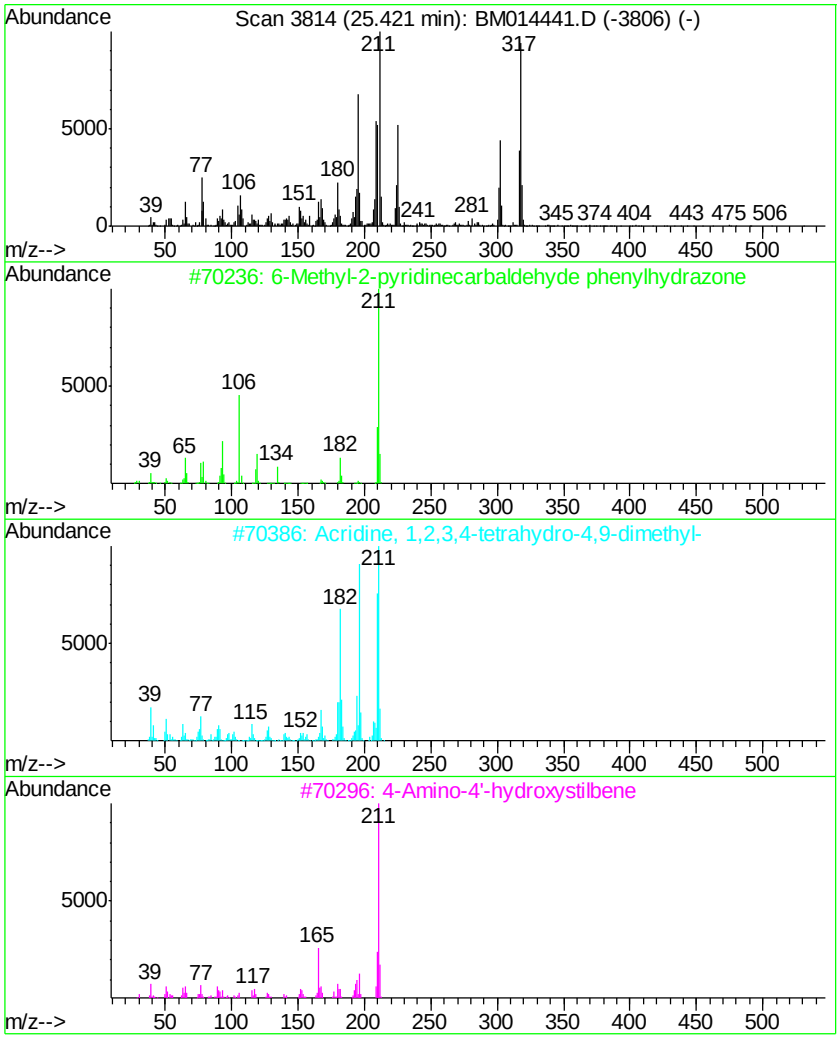
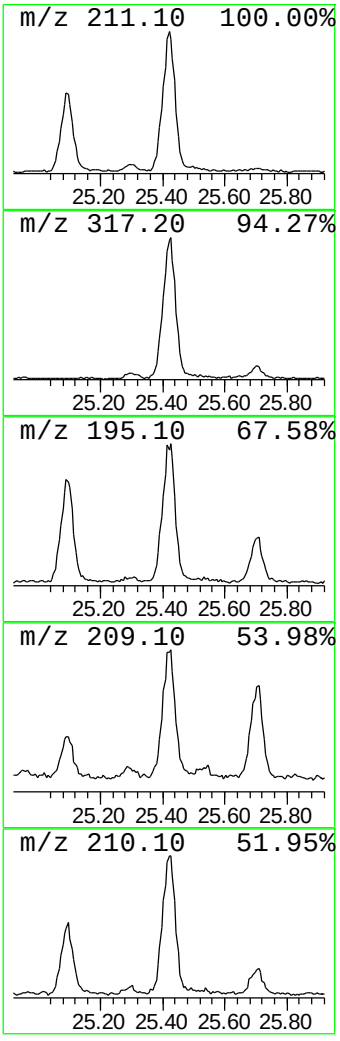
Peak Number 27 unknown-02 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.42	65.17 ng/ul	5598790	Perylene-d12	23.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6-Methyl-2-pyridinecarbaldehyde ...	211	C13H13N3	007727-08-4	25
2	Acridine, 1,2,3,4-tetrahydro-4,9...	211	C15H17N	055030-65-4	20
3	4-Amino-4'-hydroxystilbene	211	C14H13NO	000836-44-2	15
4	Phenol, 2-[[(4-methylphenyl)imin...	211	C14H13NO	000782-76-3	11
5	Benzenamine, 4-methoxy-N-(phenyl...	211	C14H13NO	000783-08-4	11





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Acq On : 01 Mar 2018 20:10
Operator : SJ/JU
Sample : J1646-16
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Y0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

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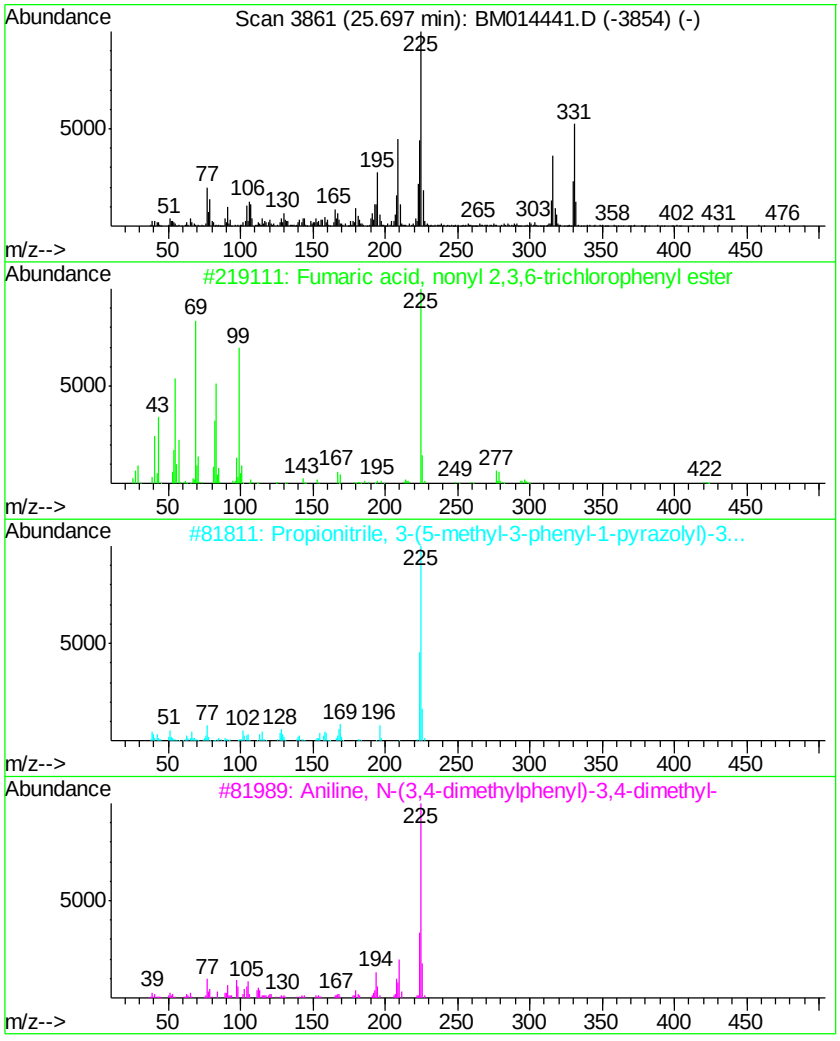
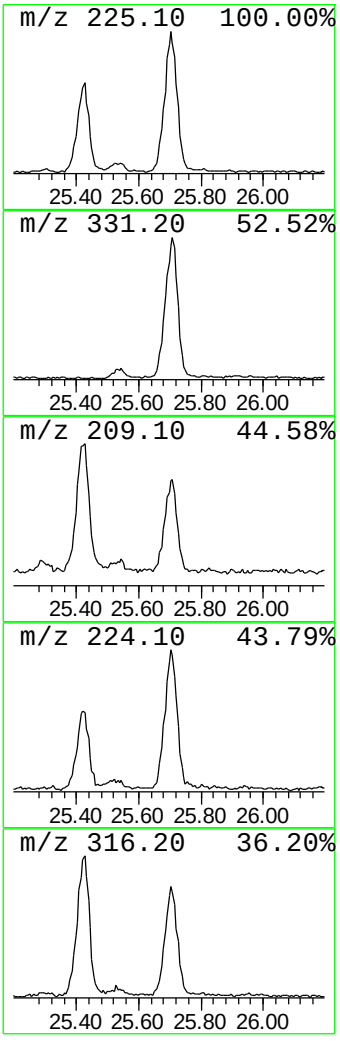
Peak Number 28 Fumaric acid, nonyl 2,3,6-t... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
25.70	47.84 ng/ul	4109740	Perylene-d12	23.33

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fumaric acid, nonyl 2,3,6-trichl...	420	C19H23Cl3O4	1000348-22-8	59
2	Propionitrile, 3-(5-methyl-3-phe...	225	C13H11N3O	1000263-77-0	42
3	Aniline, N-(3,4-dimethylphenyl)-...	225	C16H19N	055389-75-8	30
4	[1,2,4]Triazolo[1,5-a]pyrimidine...	225	C12H11N5	1000320-01-2	30
5	Benzyladenine	225	C12H11N5	001214-39-7	30





Tentatively Identified Compound (LSC) summary

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Data File : BM014441.D
Acq On : 01 Mar 2018 20:10
Operator : SJ/JU
Sample : J1646-16
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : BE5Y0

Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
o-Toluidine	8.41	17.7	ng/ul	627447	1	7.51	708342	20.0
Anthracene, 2-met...	17.86	7.3	ng/ul	710312	4	16.93	1955490	20.0
4H-Cyclopenta[def...	18.00	5.8	ng/ul	563364	4	16.93	1955490	20.0
3,3'-Diaminodiphe...	18.83	8.5	ng/ul	831146	4	16.93	1955490	20.0
unknown-01	18.88	4.5	ng/ul	442974	4	16.93	1955490	20.0
Benzenamine, 4,4'...	19.24	2.7	ng/ul	573817	5	21.15	4182560	20.0
Tetrachloro-o-ben...	19.45	2.1	ng/ul	438067	5	21.15	4182560	20.0
10-Methyl-9-oxa-1...	19.72	9.4	ng/ul	1968360	5	21.15	4182560	20.0
Pyrene, 1-methyl-	19.87	2.9	ng/ul	610619	5	21.15	4182560	20.0
Benzenamine, 4,4'...	20.13	2.6	ng/ul	538073	5	21.15	4182560	20.0
Heptadecyl heptaf...	20.86	3.9	ng/ul	813654	5	21.15	4182560	20.0
1H-Indene, 3-chlo...	21.30	3.4	ng/ul	700666	5	21.15	4182560	20.0
4,4'-Diaminobenzo...	21.50	11.6	ng/ul	2419480	5	21.15	4182560	20.0
Methanone, (4-ami...	21.92	25.6	ng/ul	5360150	5	21.15	4182560	20.0
Phenol, 2-[(1H-be...	22.34	37.9	ng/ul	3255750	6	23.33	1718140	20.0
9-(m-Toluidino)ac...	23.43	70.6	ng/ul	6064420	6	23.33	1718140	20.0
4-(9-Acridinyl)-2...	23.56	406.8	ng/ul	34949500	6	23.33	1718140	20.0
Acridin-9-yl-(2,4...	23.85	196.4	ng/ul	16869600	6	23.33	1718140	20.0
4-(3,5-Dinitroben...	24.10	14.6	ng/ul	1257600	6	23.33	1718140	20.0
i-Propyl nonadeca...	24.14	27.6	ng/ul	2374690	6	23.33	1718140	20.0
Carbazole, 9-ethy...	24.23	31.3	ng/ul	2692650	6	23.33	1718140	20.0
4-Azafluorenone, ...	24.42	26.5	ng/ul	2279190	6	23.33	1718140	20.0
2H-3,7-Methanoaza...	24.84	15.2	ng/ul	1303690	6	23.33	1718140	20.0
Fumaric acid, hex...	25.10	39.5	ng/ul	3394990	6	23.33	1718140	20.0
unknown-02	25.42	65.2	ng/ul	5598790	6	23.33	1718140	20.0
Fumaric acid, non...	25.70	47.8	ng/ul	4109740	6	23.33	1718140	20.0