

Data Path : Z:\HPCHEM1\BNA M\DATA\BM102117\  
 Data File : BM012398.D  
 Acq On : 22 Oct 2017 15:57  
 Operator : SJ/JU  
 Sample : I5701-20  
 Misc :  
 ALS Vial : 50 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B0CLO

Manual Integrations  
 APPROVED

Sohil  
 10/24/2017 10:20:05 AM

Quant Time: Oct 23 18:24:08 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM101217.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Oct 23 18:04:39 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.76  | 152  | 351478   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.56 | 136  | 1516496  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.42 | 164  | 893356   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.17 | 188  | 1921103  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.36 | 240  | 1519391  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.65 | 264  | 1467963  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.19  | 96  | 16412   | 2.22  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.94  | 99  | 352535  | 12.36 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.10  | 67  | 234667  | 13.72 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.30  | 132 | 332963  | 13.76 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.48  | 113 | 322753  | 13.14 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.94  | 128 | 161630  | 13.97 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.65  | 143 | 182456  | 13.49 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.20 | 165 | 343297  | 13.30 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.72 | 131 | 141302  | 5.85  | ng/ul | 0.01 |
| 43) Dimethylphthalate-d6       | 13.83 | 166 | 1178813 | 14.93 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.11 | 160 | 1414341 | 14.80 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.70 | 143 | 59383m  | 5.00  | ng/ul | 0.04 |
| 57) Fluorene-d10               | 15.41 | 176 | 982783  | 15.17 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.58 | 200 | 58126   | 4.41  | ng/ul | 0.01 |
| 70) Anthracene-d10             | 17.27 | 188 | 1407653 | 14.82 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.57 | 212 | 1354960 | 17.57 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.51 | 264 | 1032613 | 14.59 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |         |        | Ovalue |    |
|----------------------------|-------|-----|---------|--------|--------|----|
| 6) Phenol                  | 6.97  | 94  | 84196   | 2.856  | ng/ul  | 90 |
| 28) Naphthalene            | 10.61 | 128 | 90177   | 1.149  | ng/ul  | 99 |
| 44) Dimethylphthalate      | 13.87 | 163 | 390727  | 4.939  | ng/ul  | 99 |
| 47) Acenaphthylene         | 14.14 | 152 | 391529  | 4.172  | ng/ul  | 97 |
| 58) Fluorene               | 15.47 | 166 | 169451  | 2.241  | ng/ul  | 94 |
| 69) Phenanthrene           | 17.21 | 178 | 3401864 | 31.128 | ng/ul  | 98 |
| 71) Anthracene             | 17.31 | 178 | 541677  | 4.788  | ng/ul  | 99 |
| 72) Carbazole              | 17.58 | 167 | 143955  | 1.503  | ng/ul# | 96 |
| 74) Fluoranthene           | 19.24 | 202 | 4082257 | 30.953 | ng/ul  | 97 |
| 77) Pyrene                 | 19.60 | 202 | 4932899 | 49.161 | ng/ul# | 96 |
| 80) Benzo(a)anthracene     | 21.34 | 228 | 1885714 | 19.074 | ng/ul  | 96 |
| 82) Chrysene               | 21.39 | 228 | 1954220 | 21.054 | ng/ul  | 97 |
| 85) Benzo(b)fluoranthene   | 22.97 | 252 | 1851827 | 19.331 | ng/ul# | 96 |
| 86) Benzo(k)fluoranthene   | 23.00 | 252 | 478180m | 5.180  | ng/ul  |    |
| 88) Benzo(a)pyrene         | 23.56 | 252 | 1372656 | 15.203 | ng/ul# | 96 |
| 89) Indeno(1,2,3-cd)pyrene | 26.00 | 276 | 852854  | 8.895  | ng/ul  | 99 |
| 90) Dibenzo(a,h)anthracene | 25.99 | 278 | 277331  | 3.441  | ng/ul# | 87 |
| 91) Benzo(g,h,i)perylene   | 26.73 | 276 | 836002  | 10.646 | ng/ul  | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

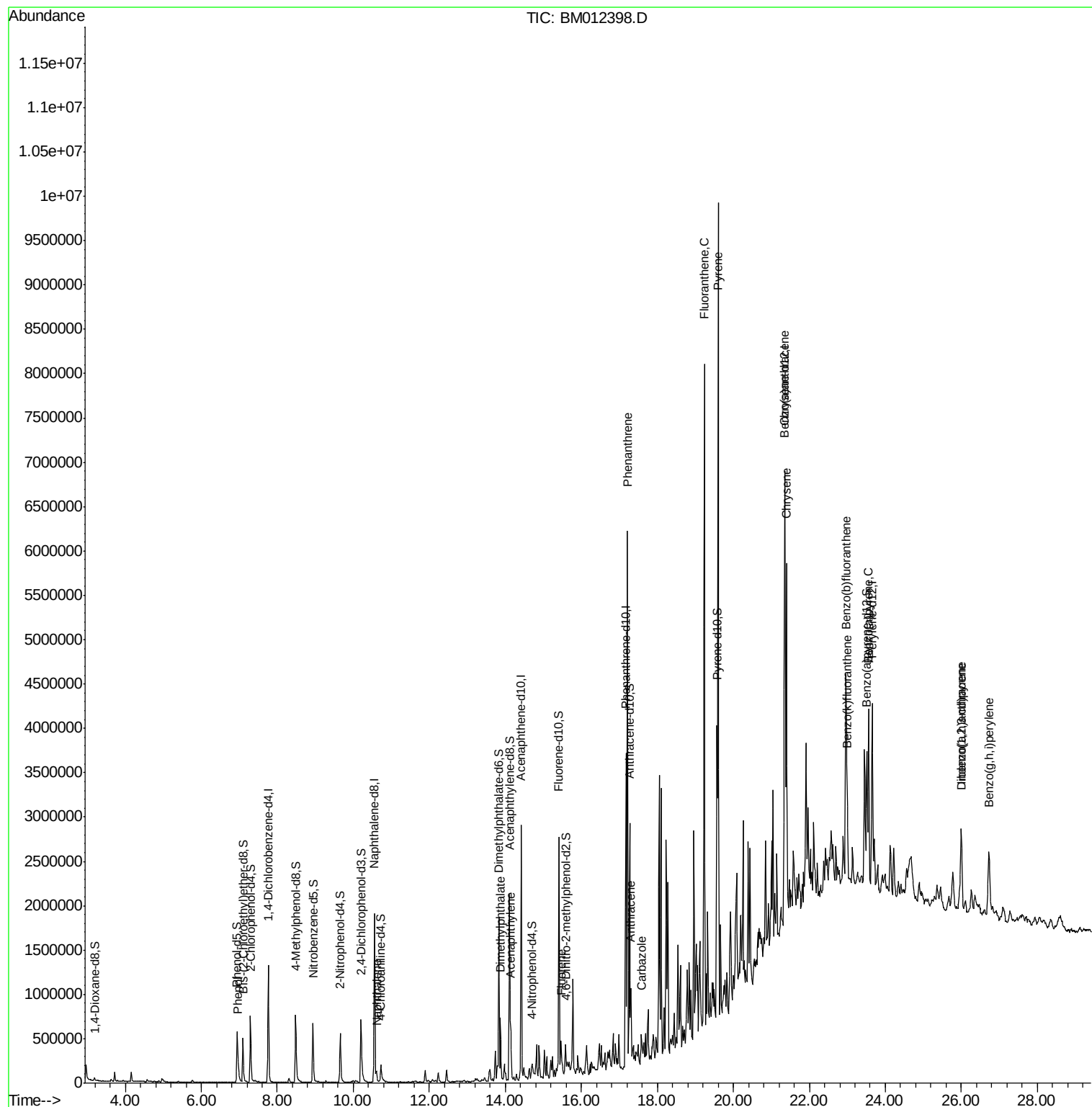
Data Path : Z:\HPCHEM1\BNA M\DATA\BM102117\  
Data File : BM012398.D  
Acq On : 22 Oct 2017 15:57  
Operator : SJ/JU  
Sample : I5701-20  
Misc :  
ALS Vial : 50 Sample Multiplier: 1

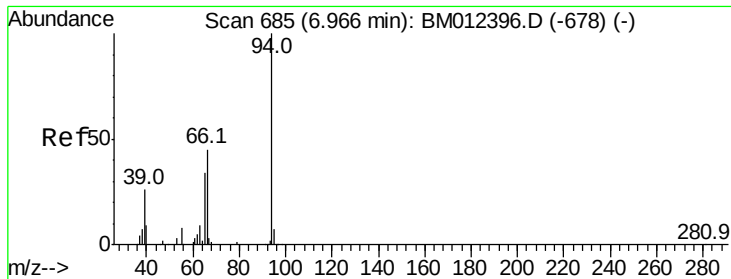
Instrument :  
BNA\_M  
ClientSampled :  
B0CLO

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10/24/2017 10:20:05 AM

Quant Time: Oct 23 18:24:08 2017  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM101217.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Oct 23 18:04:39 2017  
Response via : Initial Calibration





#6

Phenol

Concen: 2.856 ng/ul

RT: 6.97 min Scan# 686

Delta R.T. 0.01 min

Lab File: BM012398.D

Acq: 22 Oct 2017 15:57

Instrument :

BNA\_M

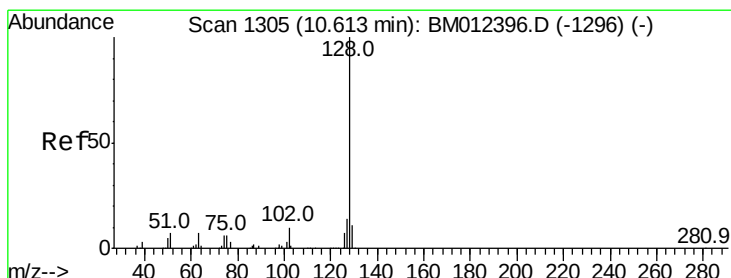
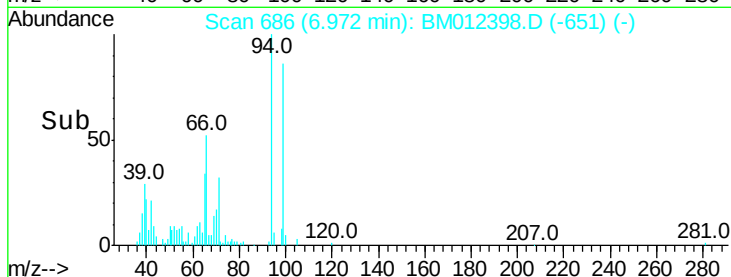
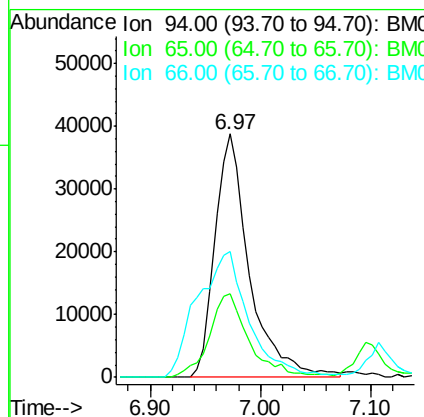
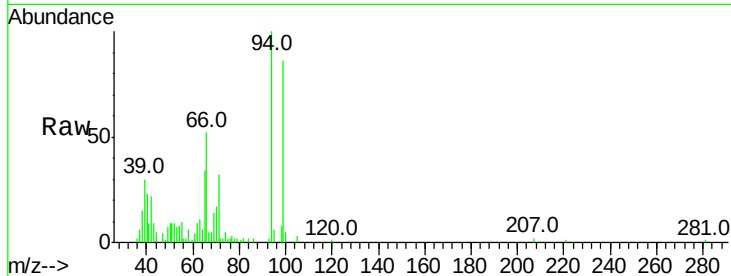
ClientSampled :

B0CL0

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 94    | Resp: | 84196 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 34.3  | 24.4  | 36.6  |
| 66        | 51.7  | 35.0  | 52.4  |

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#28

Naphthalene

Concen: 1.149 ng/ul

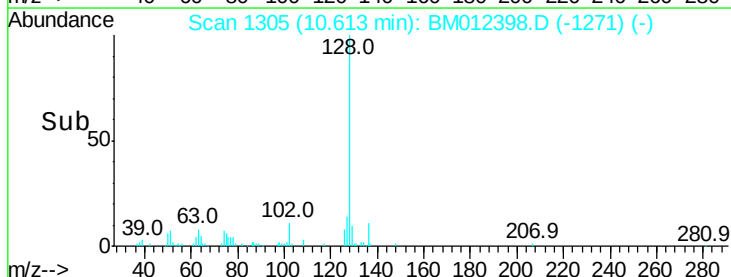
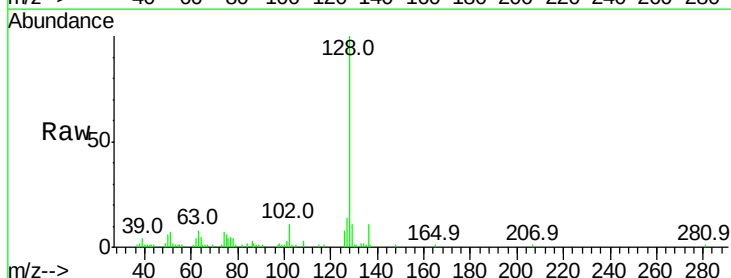
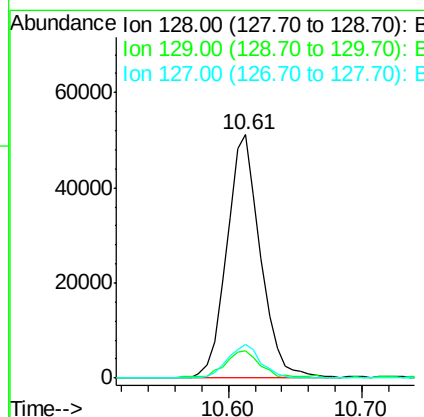
RT: 10.61 min Scan# 1305

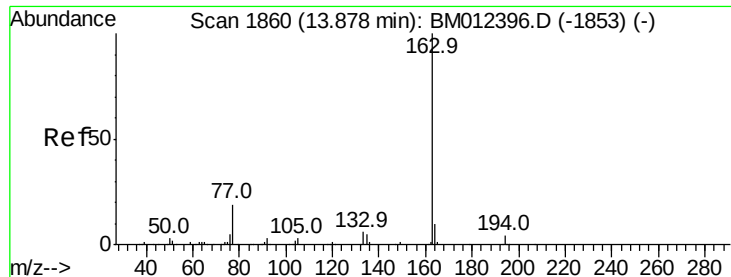
Delta R.T. -0.00 min

Lab File: BM012398.D

Acq: 22 Oct 2017 15:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 90177 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 11.2  | 9.2   | 13.8  |
| 127       | 14.0  | 11.4  | 17.0  |





#44

Dimethylphthalate

Concen: 4.939 ng/ul

RT: 13.87 min Scan# 1859

Delta R.T. -0.01 min

Lab File: BM012398.D

Acq: 22 Oct 2017 15:57

Instrument :

BNA\_M

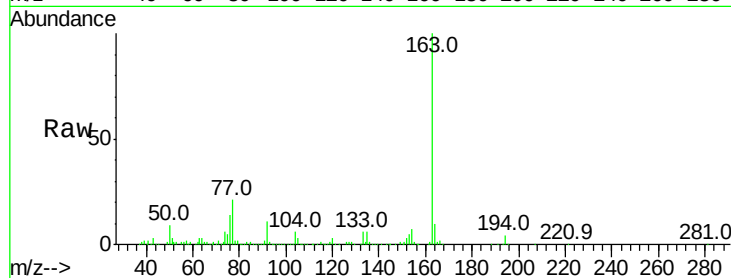
ClientSampleId :

B0CLO

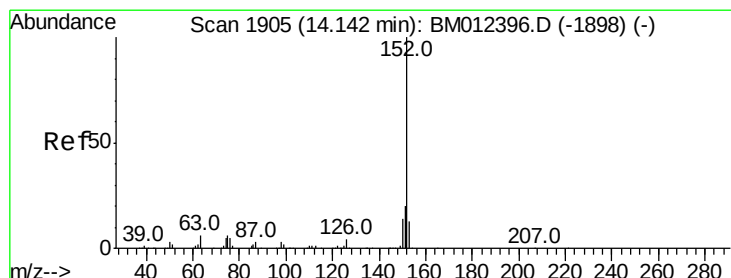
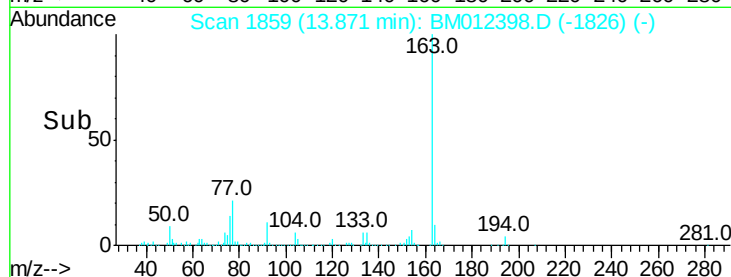
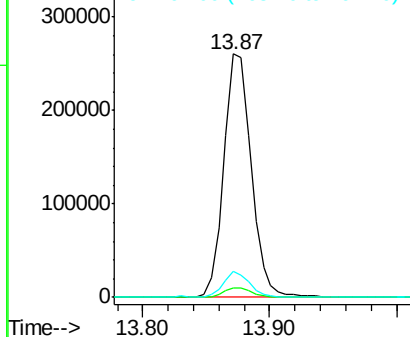
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 163   | Resp: | 390727 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 4.0   | 3.7   | 5.5    |
| 164       | 10.4  | 8.1   | 12.1   |

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Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E



#47

Acenaphthylene

Concen: 4.172 ng/ul

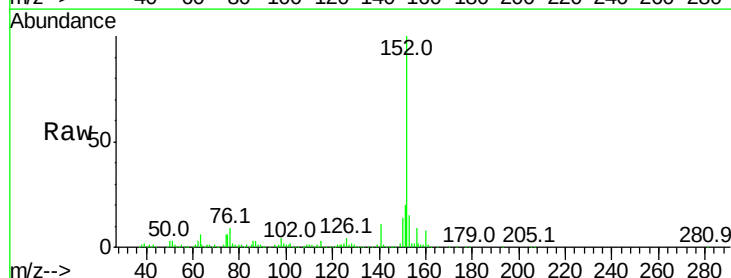
RT: 14.14 min Scan# 1905

Delta R.T. -0.00 min

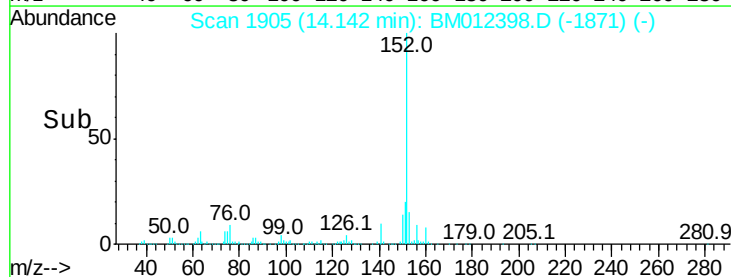
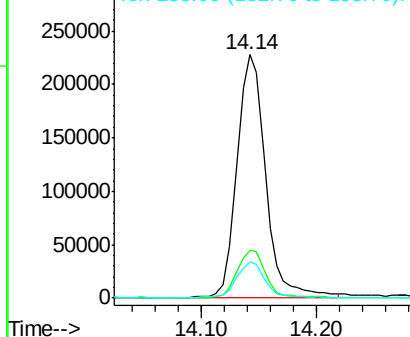
Lab File: BM012398.D

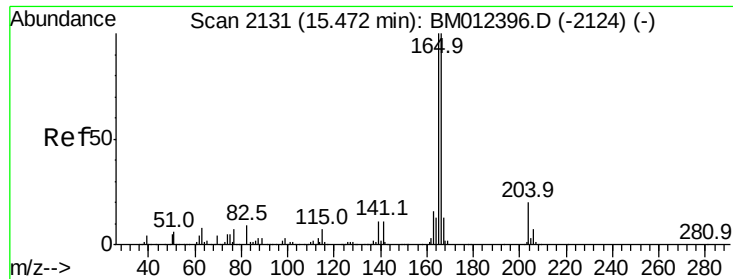
Acq: 22 Oct 2017 15:57

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 391529 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 19.7  | 15.3  | 22.9   |
| 153       | 14.9  | 10.4  | 15.6   |



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E





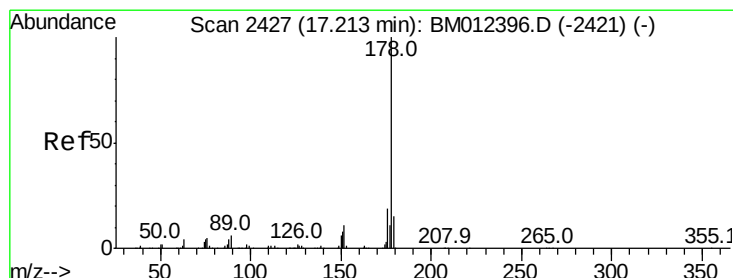
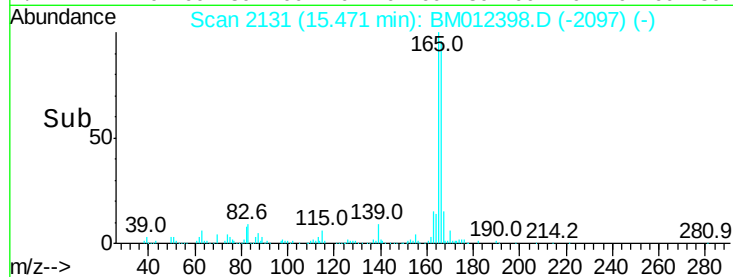
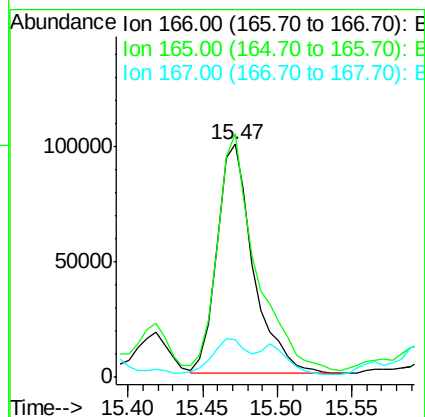
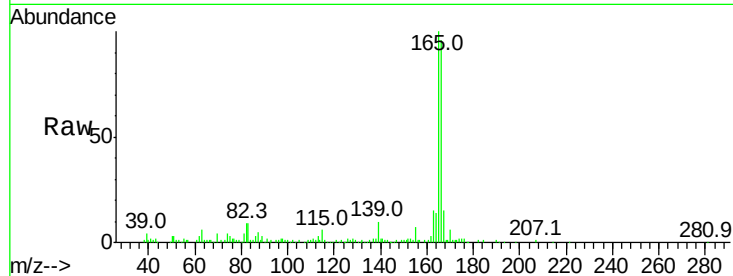
#58  
 Fluorene  
 Concen: 2.241 ng/ul  
 RT: 15.47 min Scan# 2131  
 Delta R.T. -0.00 min  
 Lab File: BM012398.D  
 Acq: 22 Oct 2017 15:57

Instrument :  
 BNA\_M  
 ClientSampleId :  
 B0CL0

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 166     | 100   | 169451 |       |       |
| 165     | 104.6 | 79.0   | 118.6 |       |
| 167     | 15.9  | 10.8   | 16.2  |       |

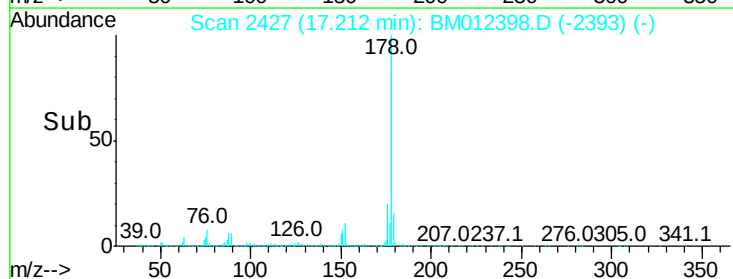
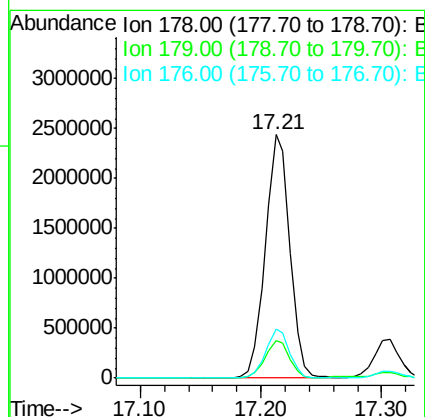
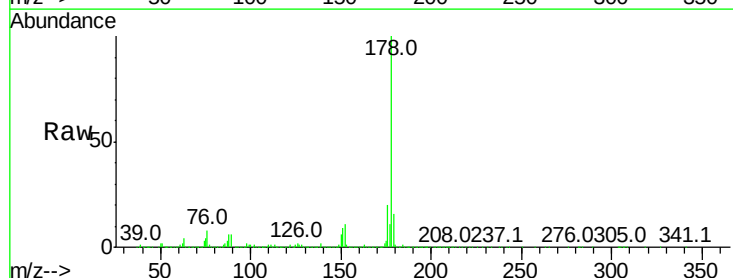
Manual Integrations  
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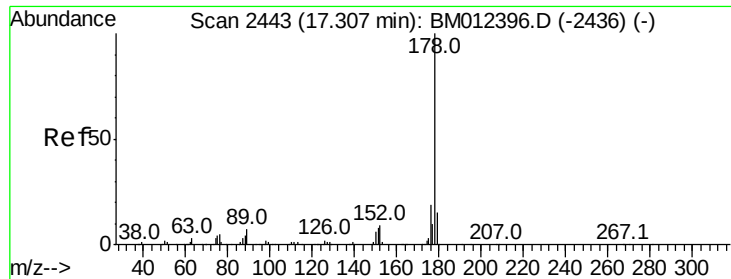
Sohil  
 10/24/2017 10:20:05 AM



#69  
 Phenanthrene  
 Concen: 31.128 ng/ul  
 RT: 17.21 min Scan# 2427  
 Delta R.T. -0.00 min  
 Lab File: BM012398.D  
 Acq: 22 Oct 2017 15:57

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 178     | 100   | 3401864 |       |       |
| 179     | 15.6  | 12.0    | 18.0  |       |
| 176     | 20.0  | 15.0    | 22.6  |       |





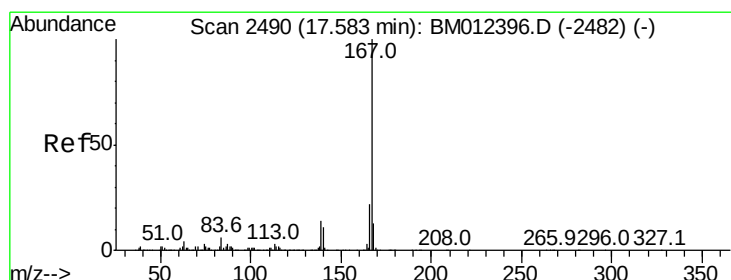
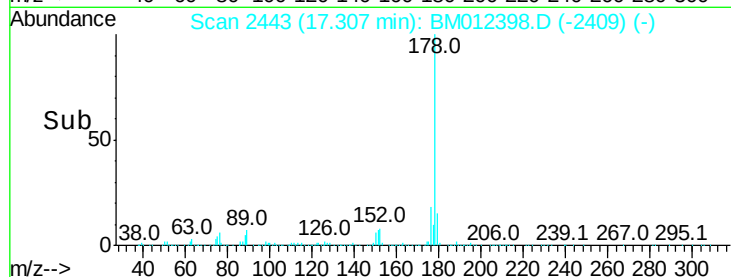
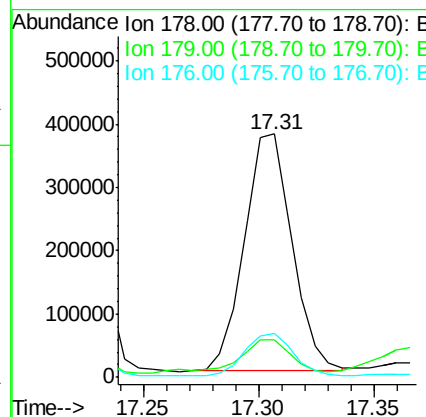
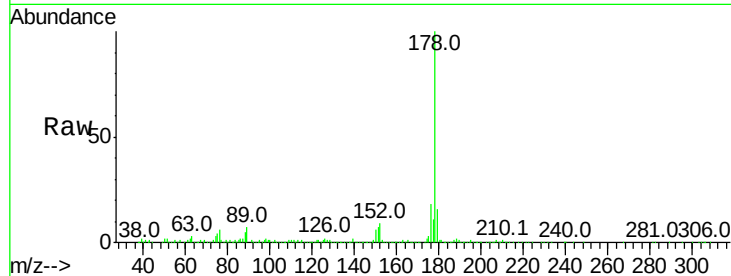
#71  
 Anthracene  
 Concen: 4.788 ng/ul  
 RT: 17.31 min Scan# 2443  
 Delta R.T. -0.00 min  
 Lab File: BM012398.D  
 Acq: 22 Oct 2017 15:57

Instrument :  
 BNA\_M  
 ClientSampled :  
 B0CLO

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.5  | 12.2  | 18.4  |
| 176     | 18.0  | 14.7  | 22.1  |

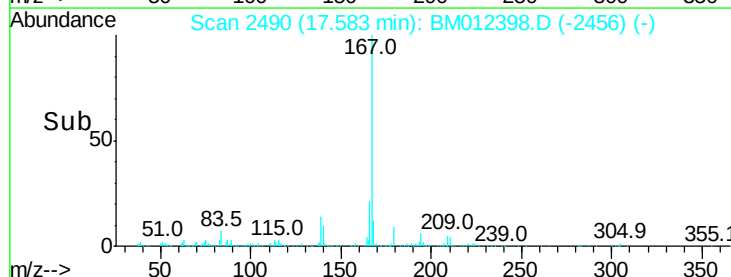
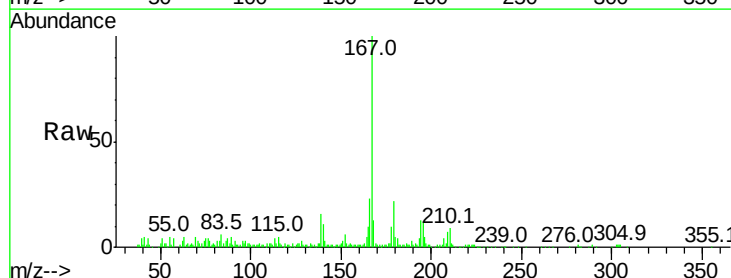
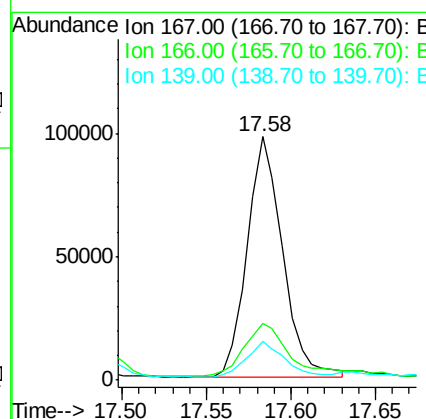
Manual Integrations  
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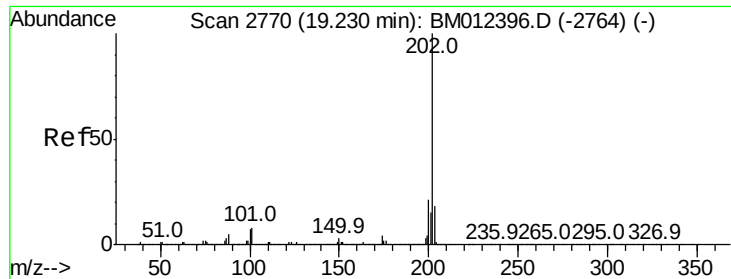
Sohil  
 10/24/2017 10:20:05 AM



#72  
 Carbazole  
 Concen: 1.503 ng/ul  
 RT: 17.58 min Scan# 2490  
 Delta R.T. -0.00 min  
 Lab File: BM012398.D  
 Acq: 22 Oct 2017 15:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 23.3  | 17.8  | 26.6  |
| 139     | 16.2  | 10.6  | 15.8  |





#74

Fluoranthene

Concen: 30.953 ng/ul

RT: 19.24 min Scan# 2771

Delta R.T. 0.01 min

Lab File: BM012398.D

Acq: 22 Oct 2017 15:57

Instrument :

BNA\_M

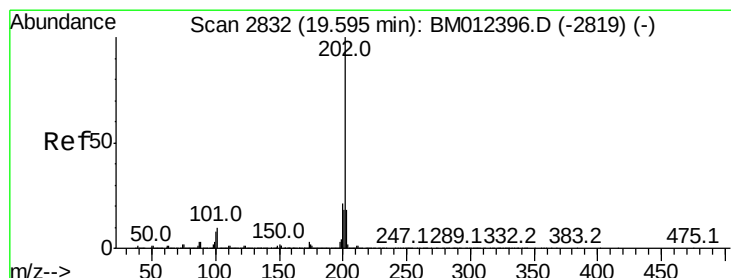
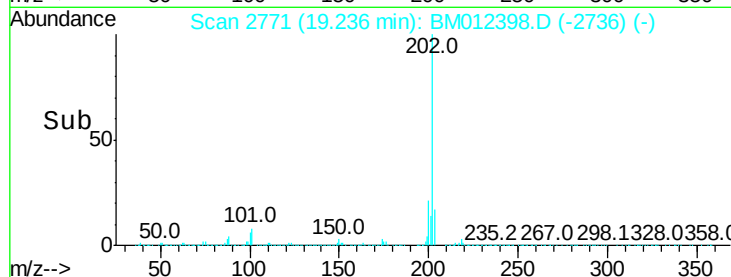
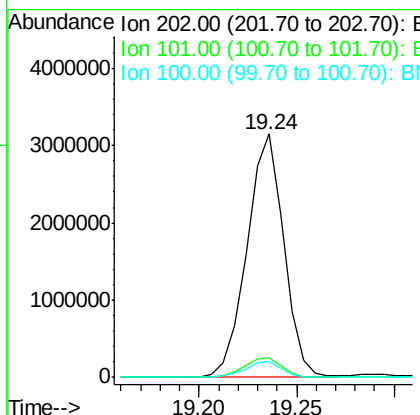
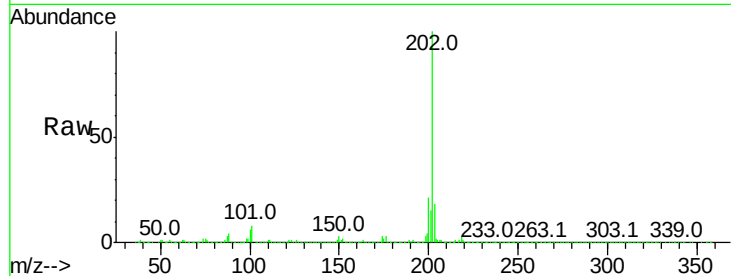
ClientSampleId :

B0CLO

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 202   | Resp: | 4082257 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 8.3   | 5.8   | 8.6     |
| 100       | 6.5   | 4.3   | 6.5     |

Manual Integrations  
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10/24/2017 10:20:05 AM



#77

Pyrene

Concen: 49.161 ng/ul

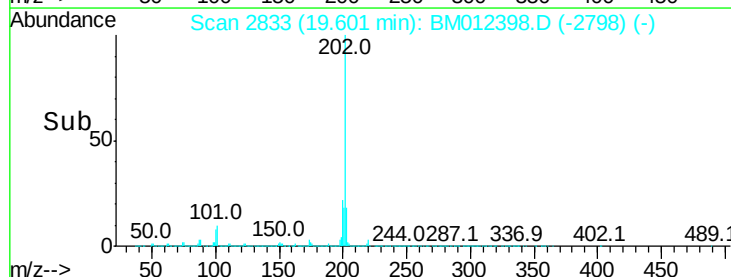
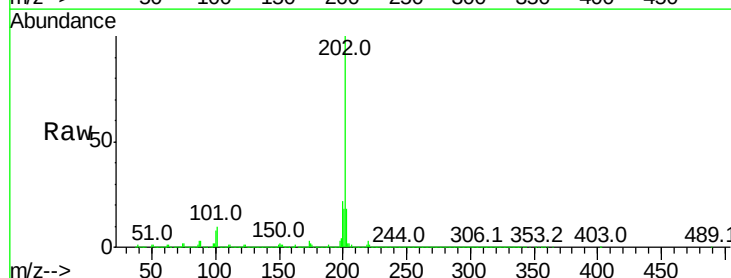
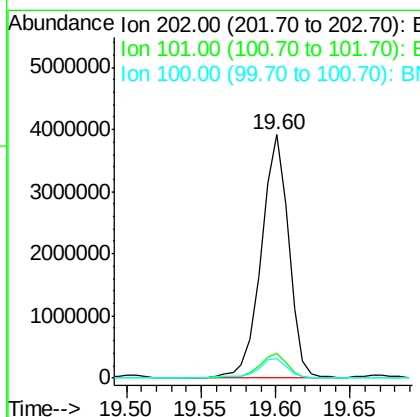
RT: 19.60 min Scan# 2833

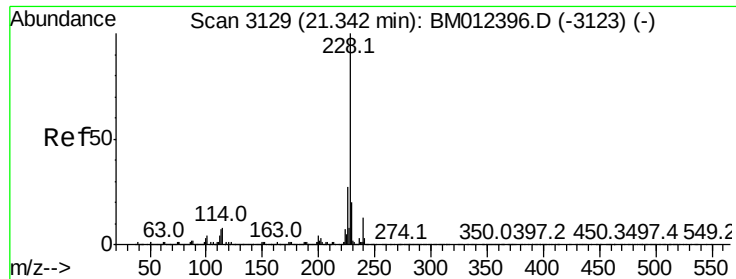
Delta R.T. 0.01 min

Lab File: BM012398.D

Acq: 22 Oct 2017 15:57

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 4932899 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 9.9   | 6.5   | 9.7#    |
| 100       | 8.2   | 5.6   | 8.4     |





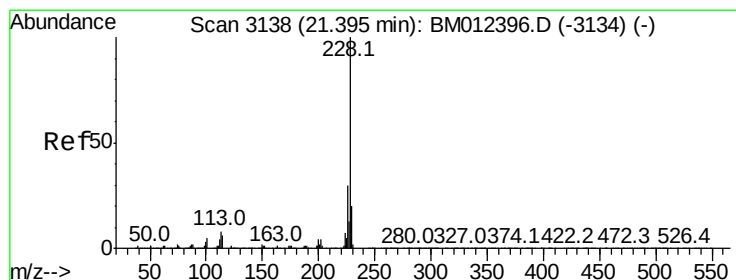
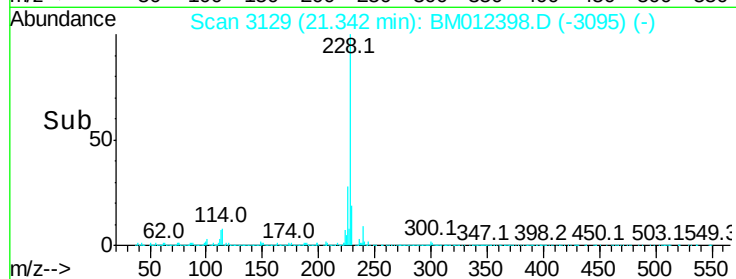
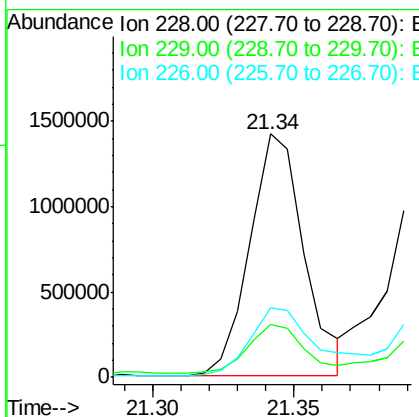
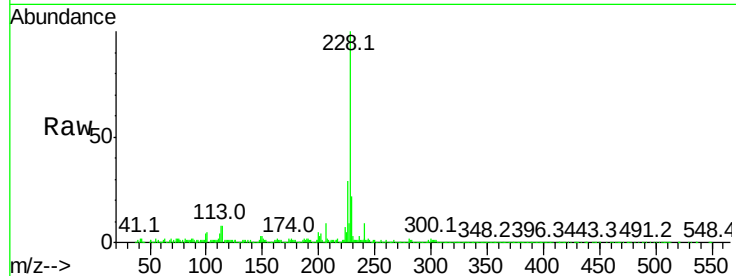
#80  
Benzo(a)anthracene  
Concen: 19.074 ng/ul  
RT: 21.34 min Scan# 3129  
Delta R.T. -0.00 min  
Lab File: BM012398.D  
Acq: 22 Oct 2017 15:57

Instrument :  
BNA\_M  
ClientSampleId :  
B0CLO

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.7  | 15.8  | 23.8  |
| 226     | 28.7  | 21.4  | 32.2  |

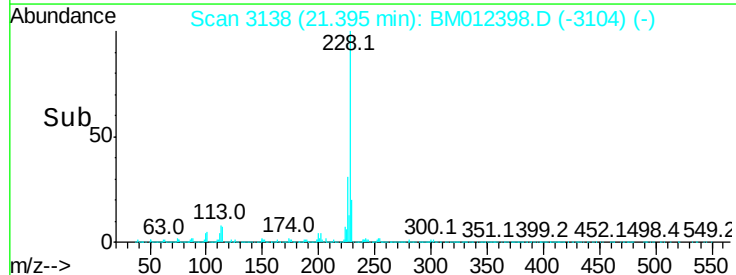
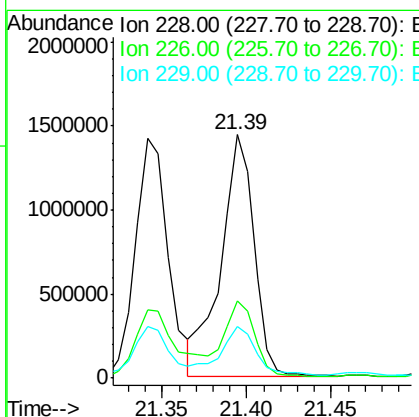
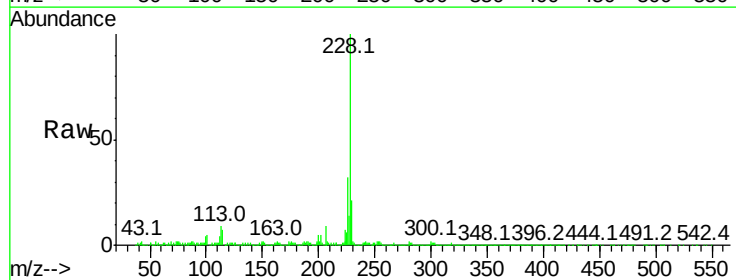
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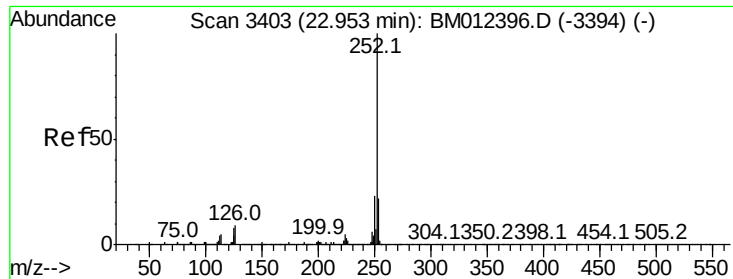


#82  
Chrysene  
Concen: 21.054 ng/ul  
RT: 21.39 min Scan# 3138  
Delta R.T. -0.00 min  
Lab File: BM012398.D  
Acq: 22 Oct 2017 15:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.5  | 24.0  | 36.0  |
| 229     | 21.2  | 15.5  | 23.3  |







#85

Benzo(b)fluoranthene

Concen: 19.331 ng/ul

RT: 22.97 min Scan# 3405

Delta R.T. 0.01 min

Lab File: BM012398.D

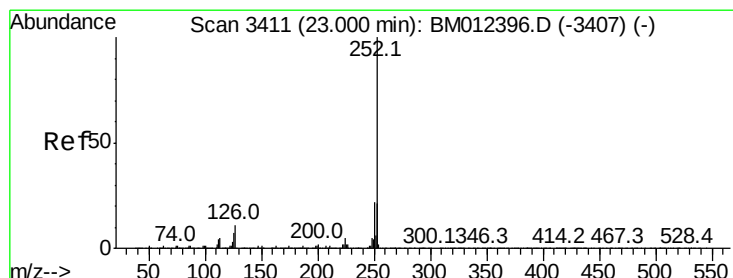
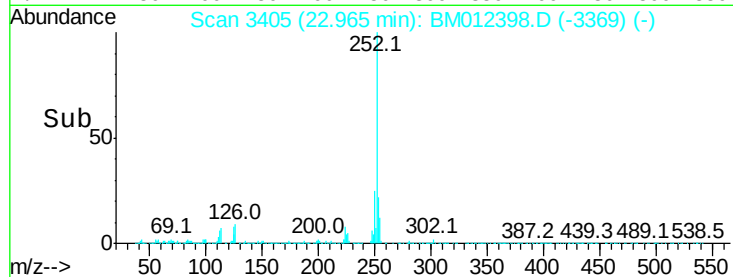
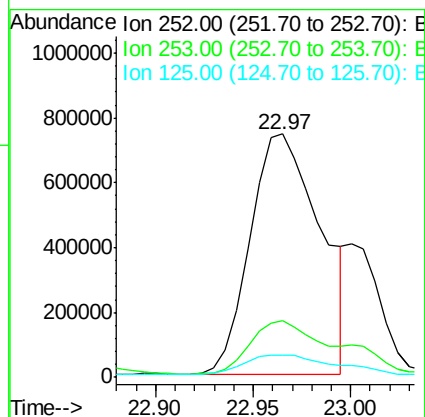
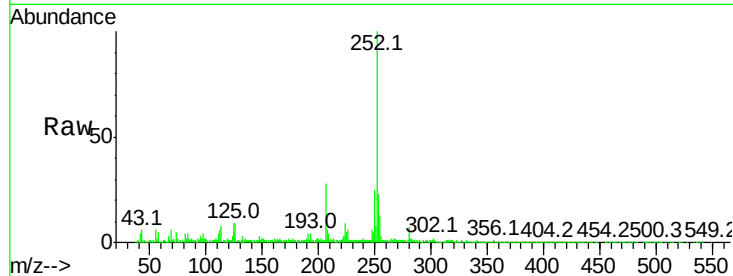
Acq: 22 Oct 2017 15:57

Instrument :  
BNA\_M  
ClientSampleId :  
B0CL0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 17.4  | 26.2  |
| 125     | 9.1   | 5.1   | 7.7#  |

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#86

Benzo(k)fluoranthene

Concen: 5.180 ng/ul m

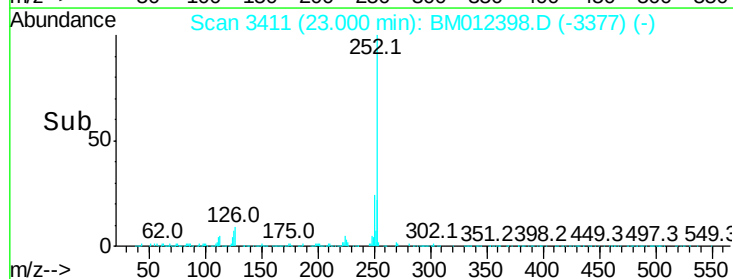
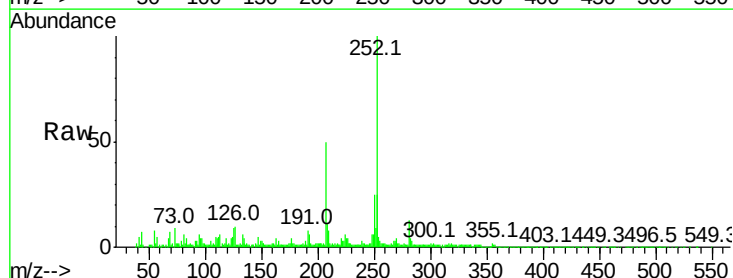
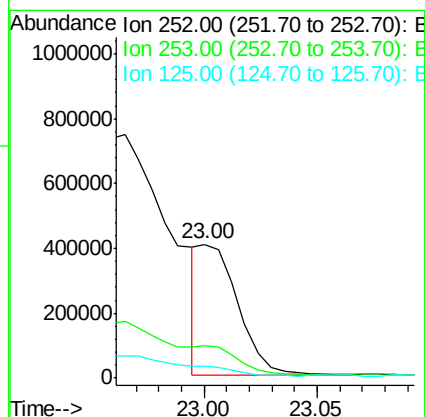
RT: 23.00 min Scan# 3411

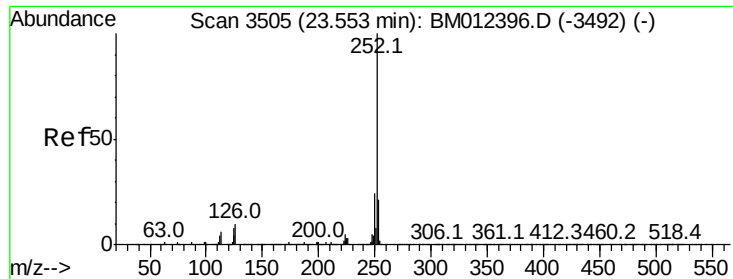
Delta R.T. -0.00 min

Lab File: BM012398.D

Acq: 22 Oct 2017 15:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.6  | 17.8  | 26.6  |
| 125     | 8.8   | 4.9   | 7.3#  |





#88

Benzo(a)pyrene

Concen: 15.203 ng/ul

RT: 23.56 min Scan# 3506

Delta R.T. 0.01 min

Lab File: BM012398.D

Acq: 22 Oct 2017 15:57

Instrument :

BNA\_M

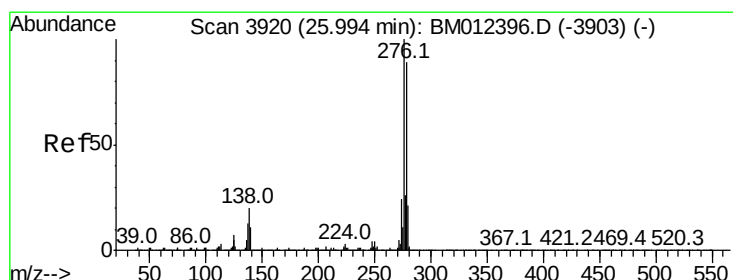
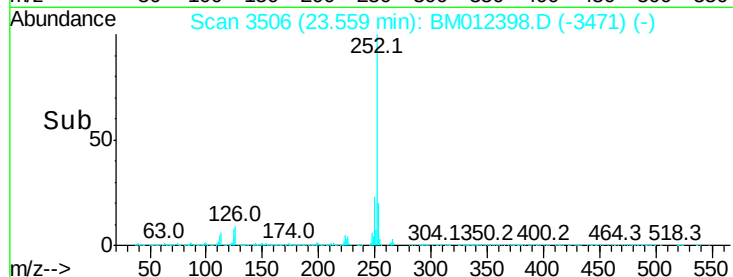
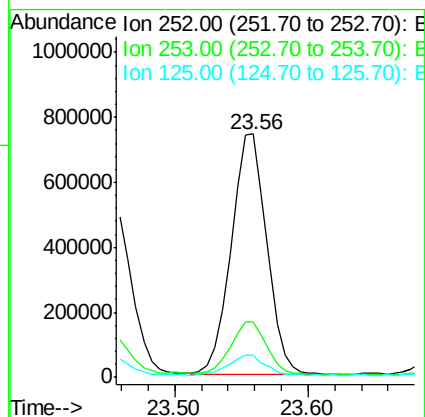
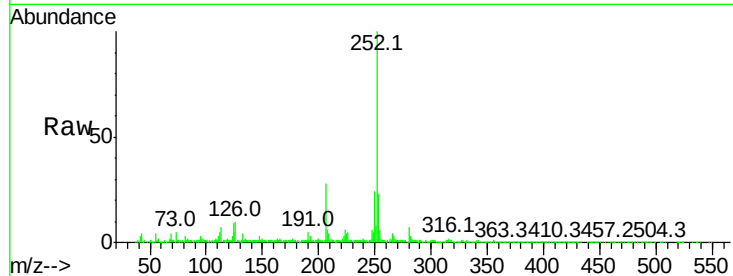
ClientSampleId :

B0CL0

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 252   | Resp: | 1372656 |
| Ion Ratio | Lower | Upper |         |
| 252       | 100   |       |         |
| 253       | 22.6  | 17.1  | 25.7    |
| 125       | 9.0   | 5.2   | 7.8#    |

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#89

Indeno(1,2,3-cd)pyrene

Concen: 8.895 ng/ul

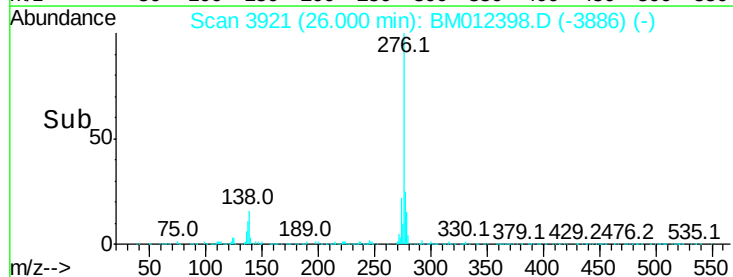
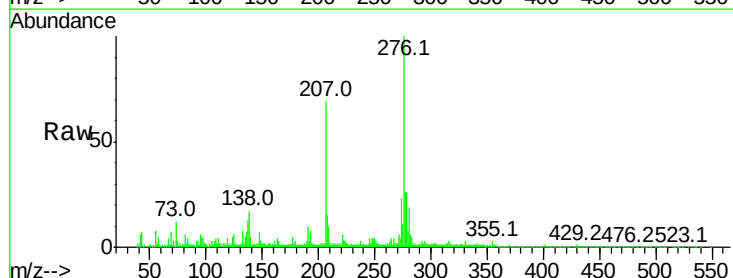
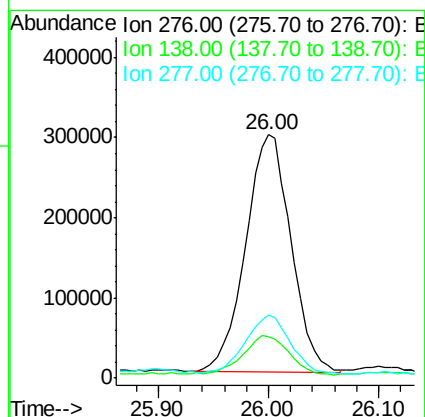
RT: 26.00 min Scan# 3921

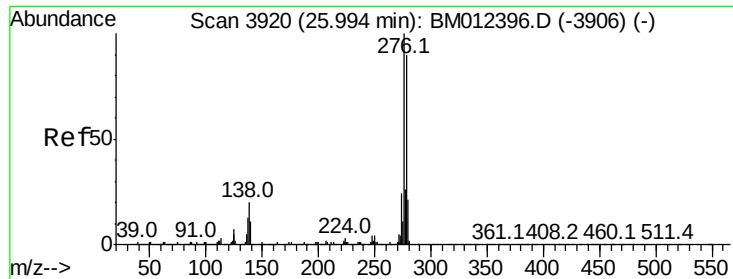
Delta R.T. 0.01 min

Lab File: BM012398.D

Acq: 22 Oct 2017 15:57

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 852854 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 16.9  | 13.2  | 19.8   |
| 277       | 26.1  | 20.6  | 31.0   |





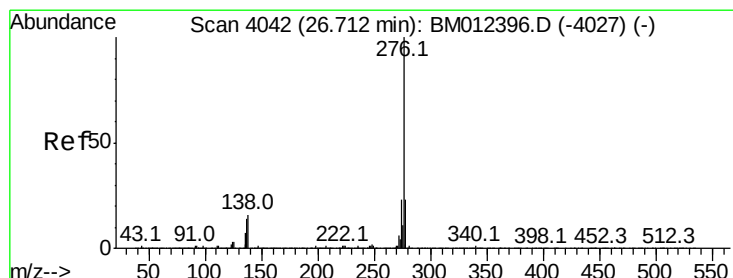
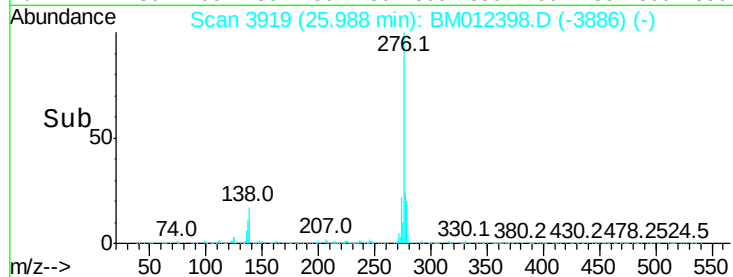
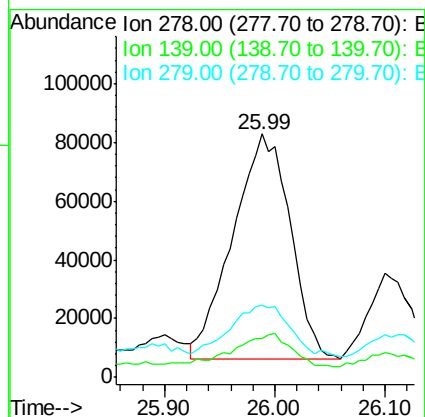
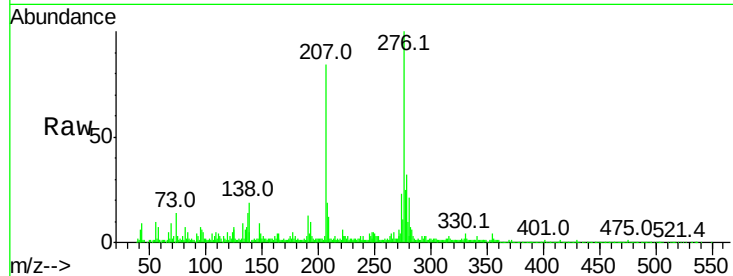
#90  
Dibenzo(a,h)anthracene  
Concen: 3.441 ng/ul  
RT: 25.99 min Scan# 3919  
Delta R.T. -0.01 min  
Lab File: BM012398.D  
Acq: 22 Oct 2017 15:57

Instrument :  
BNA\_M  
ClientSampleId :  
B0CLO

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 278     | 100   |            |       |
| 139     | 16.1  | 8.3        | 12.5# |
| 279     | 29.7  | 19.3       | 28.9# |

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#91  
Benzo(g,h,i)perylene  
Concen: 10.646 ng/ul  
RT: 26.73 min Scan# 4045  
Delta R.T. 0.02 min  
Lab File: BM012398.D  
Acq: 22 Oct 2017 15:57

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 138     | 15.9  | 10.7       | 16.1  |
| 277     | 24.1  | 19.0       | 28.4  |

