

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM011516\  
 Data File : BM004018.D  
 Acq On : 14 Jan 2016 18:32  
 Operator : SJ/UM  
 Sample : H1099-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BC994

Manual Integrations  
 APPROVED

mohammad  
 1/15/2016 3:02:57 PM

Quant Time: Jan 15 00:39:42 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM010116.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Jan 15 00:28:21 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.66  | 152  | 44768    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.45 | 136  | 213675   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.32 | 164  | 123344   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.07 | 188  | 262681   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.27 | 240  | 208005   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.51 | 264  | 189470   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.13  | 96  | 4223   | 4.22  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.85  | 99  | 99336  | 26.72 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.00  | 67  | 58997  | 28.08 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.20  | 132 | 85530  | 28.00 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.38  | 113 | 71736  | 23.82 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.82  | 128 | 43729  | 27.17 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.54  | 143 | 48177  | 27.31 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.08 | 165 | 84213  | 26.86 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.59 | 131 | 92135  | 22.26 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.73 | 166 | 273751 | 28.27 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.01 | 160 | 340834 | 28.89 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.54 | 143 | 37407  | 21.51 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.32 | 176 | 240124 | 29.24 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.45 | 200 | 27775  | 18.75 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.17 | 188 | 345452 | 28.43 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.47 | 212 | 346719 | 32.18 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.37 | 264 | 277045 | 29.28 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |        |       |       | Qvalue |
|----------------------------|-------|-----|--------|-------|-------|--------|
| 6) Phenol                  | 6.87  | 94  | 4972   | 1.27  | ng/ul | 94     |
| 14) Acetophenone           | 8.49  | 105 | 11667  | 2.49  | ng/ul | 98     |
| 45) Dimethylphthalate      | 13.78 | 163 | 160210 | 16.23 | ng/ul | 100    |
| 70) Phenanthrene           | 17.11 | 178 | 51464  | 3.48  | ng/ul | 99     |
| 77) Fluoranthene           | 19.14 | 202 | 100184 | 6.53  | ng/ul | 100    |
| 80) Pyrene                 | 19.50 | 202 | 104304 | 7.39  | ng/ul | 100    |
| 83) Benzo(a)anthracene     | 21.26 | 228 | 41926  | 3.38  | ng/ul | 99     |
| 85) Chrysene               | 21.31 | 228 | 45820  | 3.89  | ng/ul | 97     |
| 88) Benzo(b)fluoranthene   | 22.84 | 252 | 46244  | 4.01  | ng/ul | 97     |
| 89) Benzo(k)fluoranthene   | 22.88 | 252 | 16365m | 1.49  | ng/ul |        |
| 91) Benzo(a)pyrene         | 23.42 | 252 | 35882  | 3.28  | ng/ul | 98     |
| 92) Indeno(1,2,3-cd)pyrene | 25.76 | 276 | 21659  | 1.79  | ng/ul | 99     |
| 94) Benzo(g,h,i)perylene   | 26.44 | 276 | 17851  | 1.76  | ng/ul | 97     |

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

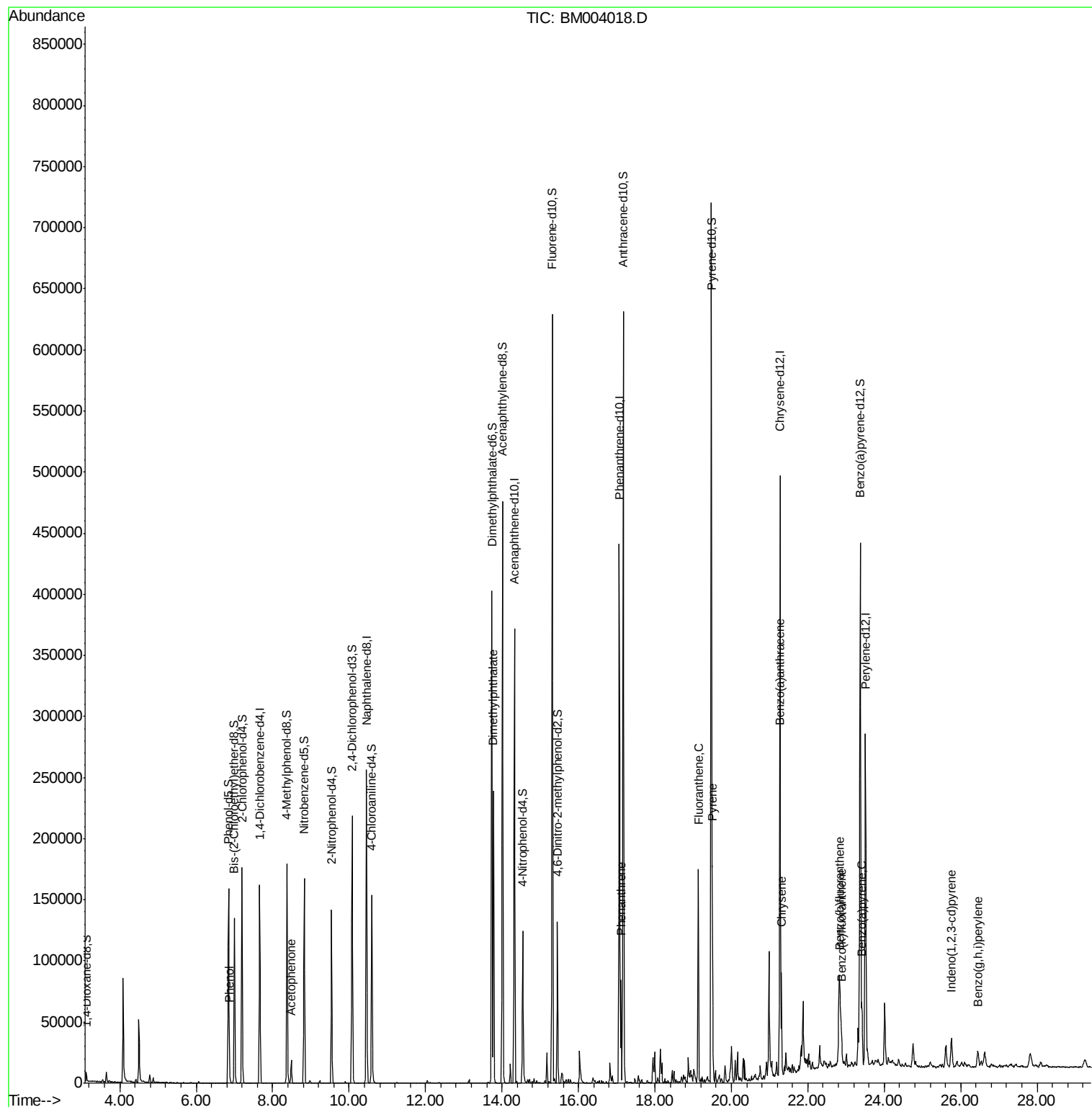
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM011516\  
Data File : BM004018.D  
Acq On : 14 Jan 2016 18:32  
Operator : SJ/UM  
Sample : H1099-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

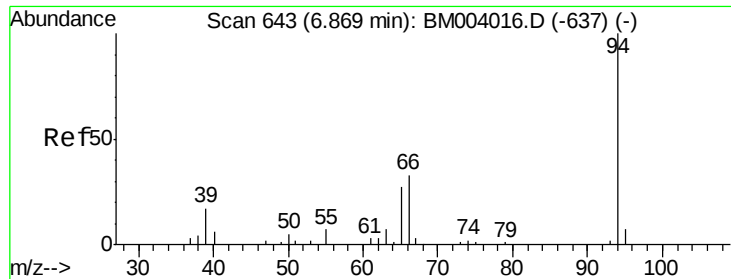
Instrument :  
BNA\_M  
ClientSampleId :  
BC994

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Quant Time: Jan 15 00:39:42 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM010116.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Jan 15 00:28:21 2016  
Response via : Initial Calibration





#6

Phenol

Concen: 1.27 ng/ul

RT: 6.87 min Scan# 643

Delta R.T. 0.00 min

Lab File: BM004018.D

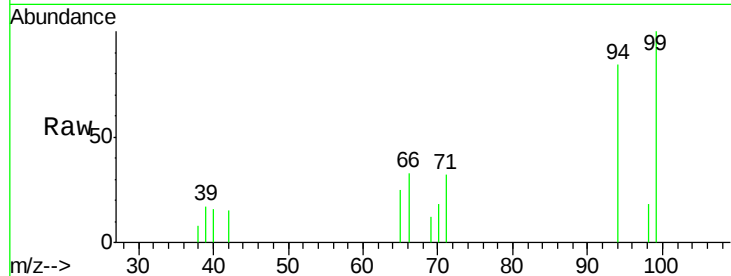
Acq: 14 Jan 2016 18:32

Instrument :

BNA\_M

ClientSampleId :

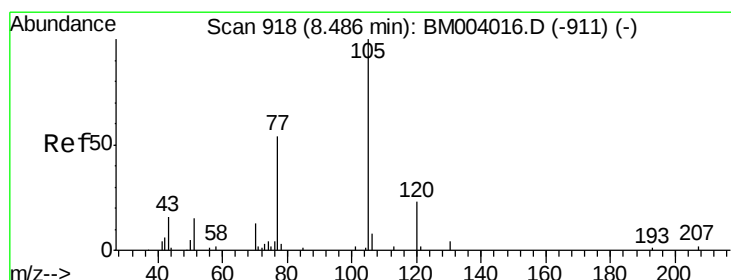
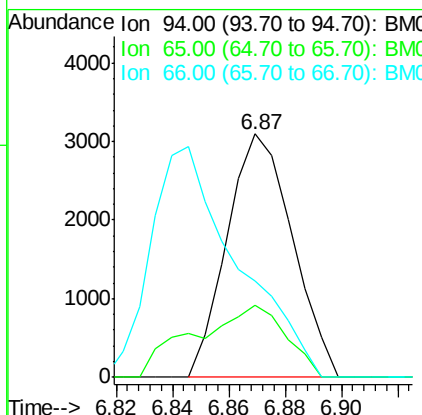
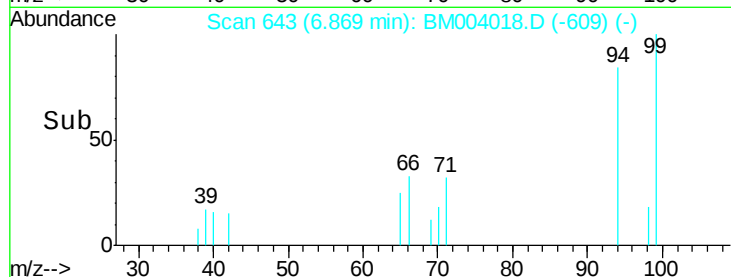
BC994



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 4972  |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 29.7  | 21.0  | 31.6  |
| 66       | 39.7  | 29.3  | 43.9  |

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#14

Acetophenone

Concen: 2.49 ng/ul

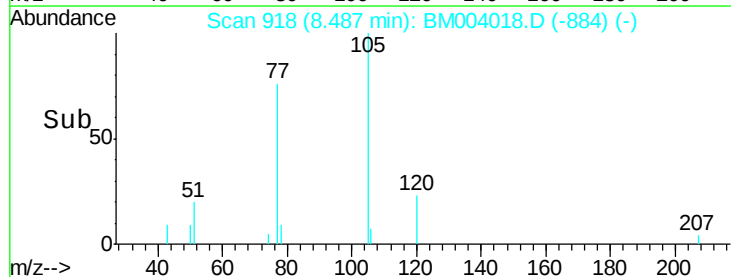
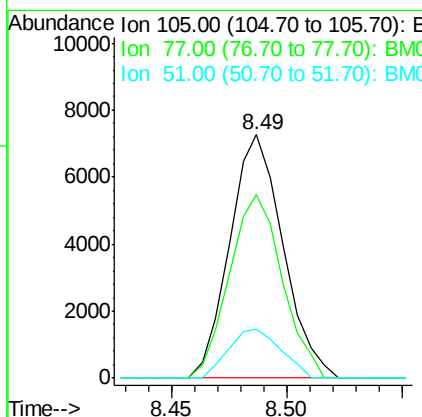
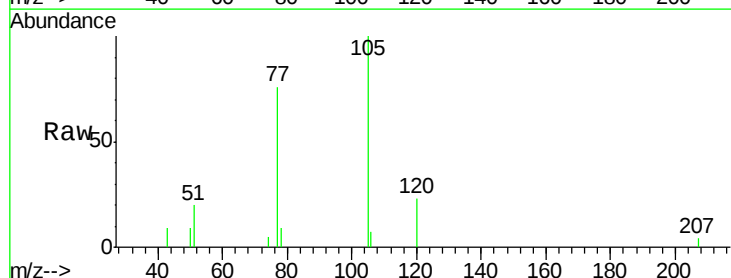
RT: 8.49 min Scan# 918

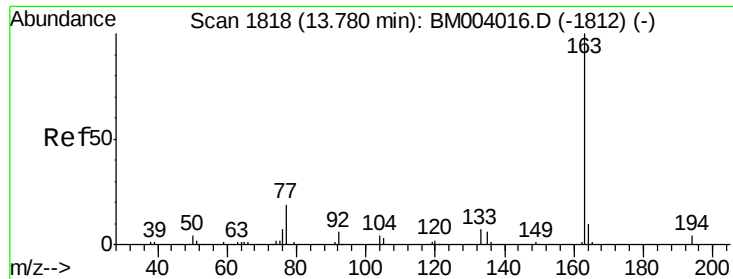
Delta R.T. 0.00 min

Lab File: BM004018.D

Acq: 14 Jan 2016 18:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 11667 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 77       | 75.6  | 59.0  | 88.4  |
| 51       | 19.9  | 16.4  | 24.6  |





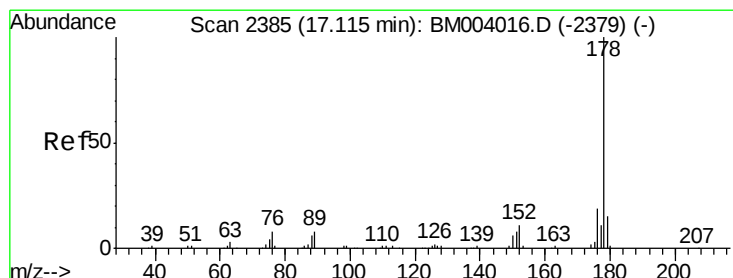
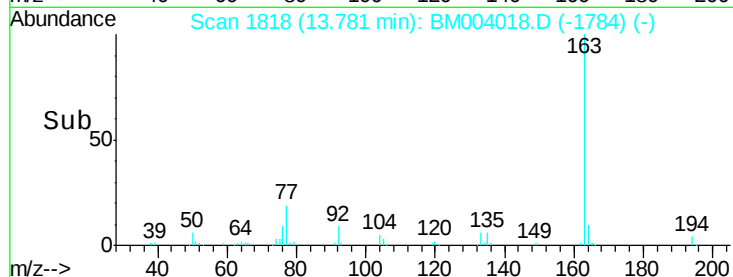
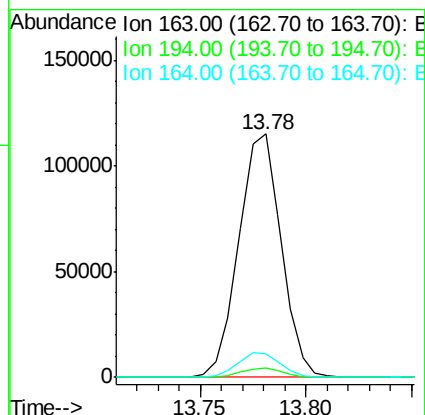
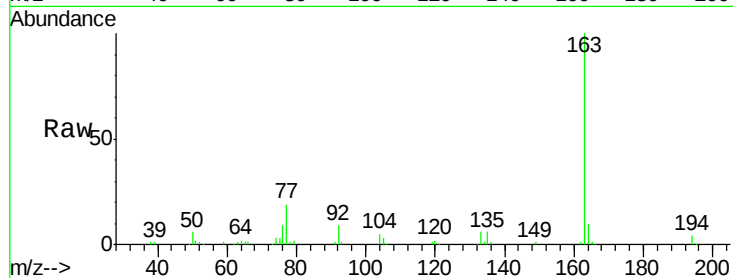
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Dimethylphthalate  
Concen: 16.23 ng/ul  
RT: 13.78 min Scan# 1818  
Delta R.T. 0.00 min  
Lab File: BM004018.D  
Acq: 14 Jan 2016 18:32

Instrument :  
BNA\_M  
ClientSampleId :  
BC994

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 160210 |       |       |
| 194     | 4.1   | 3.2    | 4.8   |       |
| 164     | 9.6   | 7.8    | 11.8  |       |

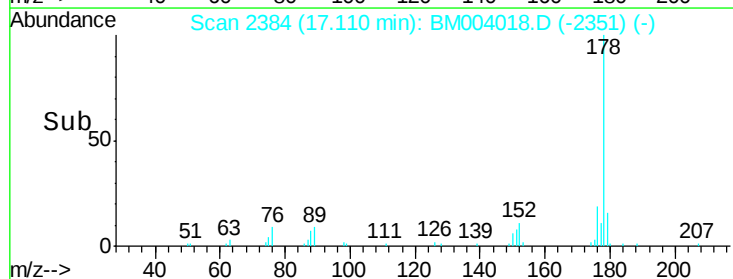
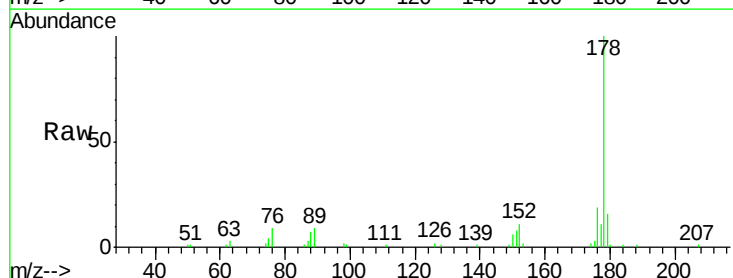
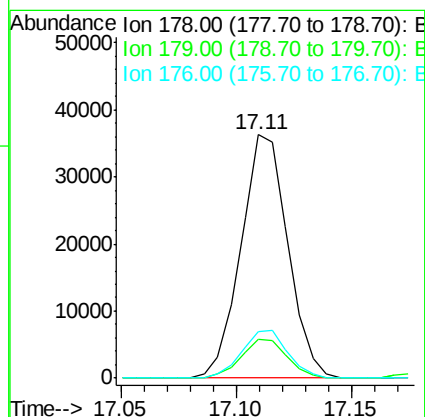
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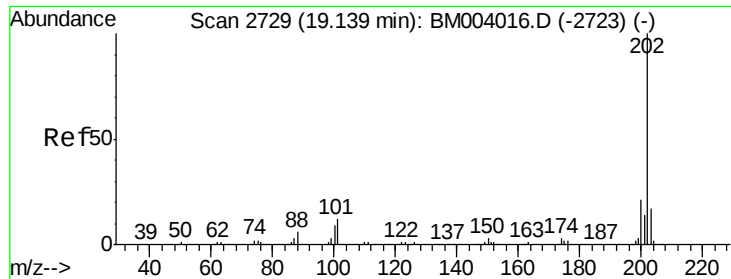
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#70  
Phenanthrene  
Concen: 3.48 ng/ul  
RT: 17.11 min Scan# 2384  
Delta R.T. -0.01 min  
Lab File: BM004018.D  
Acq: 14 Jan 2016 18:32

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 51464 |       |       |
| 179     | 15.8  | 12.2  | 18.4  |       |
| 176     | 19.3  | 15.6  | 23.4  |       |





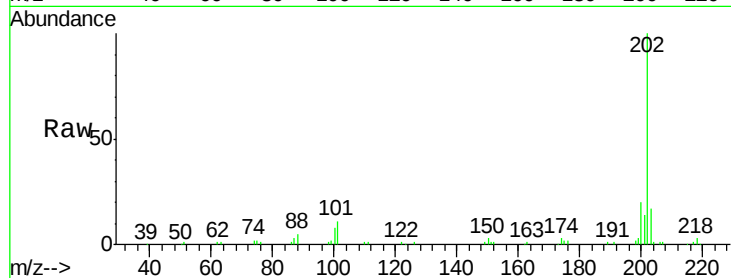
#77  
 Fluoranthene  
 Concen: 6.53 ng/ul  
 RT: 19.14 min Scan# 2729  
 Delta R.T. 0.00 min  
 Lab File: BM004018.D  
 Acq: 14 Jan 2016 18:32

Instrument :  
 BNA\_M  
 ClientSampled :  
 BC994

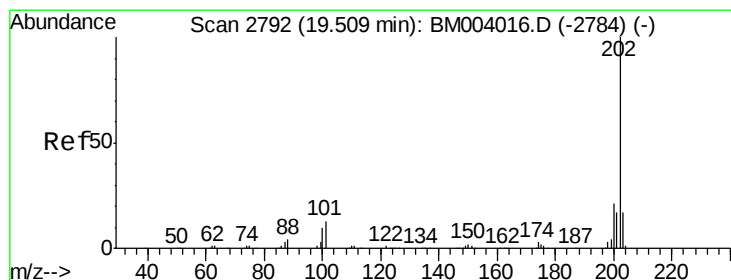
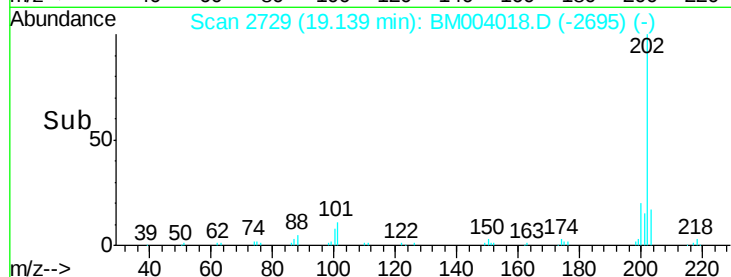
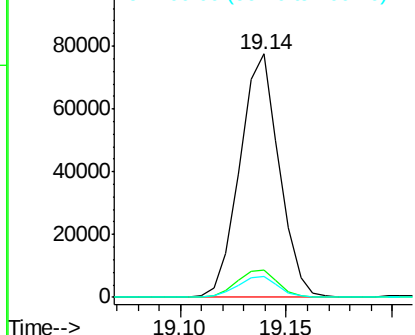
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 100184 |       |       |
| 101     | 11.1  | 8.8    | 13.2  |       |
| 100     | 8.4   | 6.6    | 9.8   |       |

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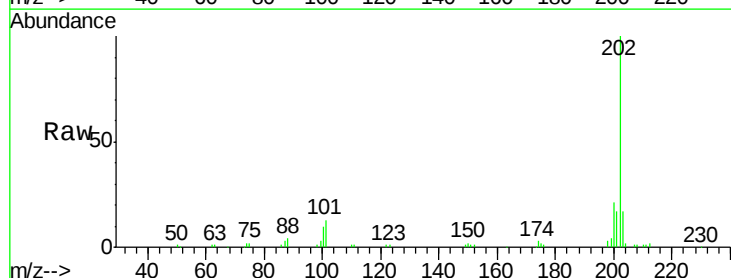


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 100.00 (99.70 to 100.70): B

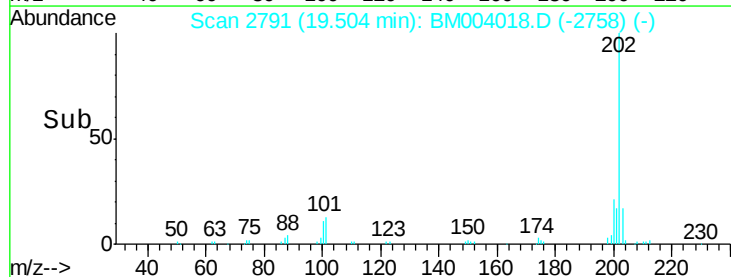
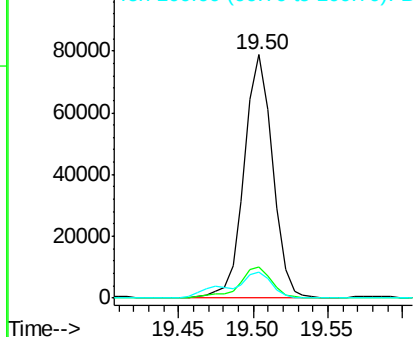


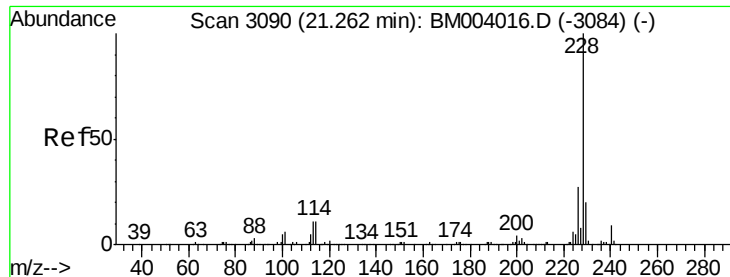
#80  
 Pyrene  
 Concen: 7.39 ng/ul  
 RT: 19.50 min Scan# 2791  
 Delta R.T. -0.01 min  
 Lab File: BM004018.D  
 Acq: 14 Jan 2016 18:32

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 104304 |       |       |
| 101     | 12.8  | 10.2   | 15.2  |       |
| 100     | 10.5  | 8.5    | 12.7  |       |



Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 100.00 (99.70 to 100.70): B





#83

Benzo(a)anthracene

Concen: 3.38 ng/ul

RT: 21.26 min Scan# 3089

Delta R.T. -0.01 min

Lab File: BM004018.D

Acq: 14 Jan 2016 18:32

Instrument :

BNA\_M

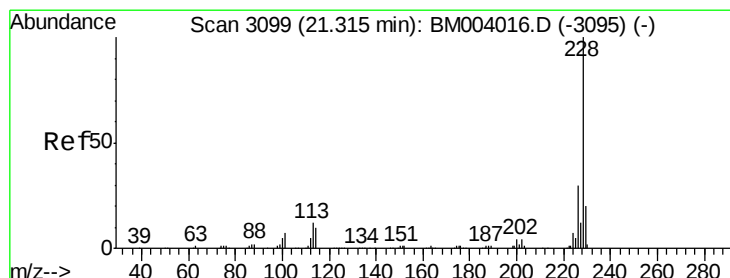
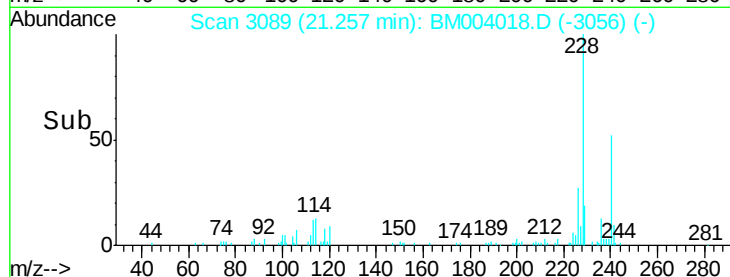
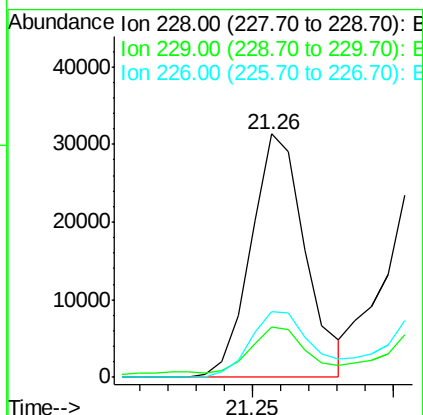
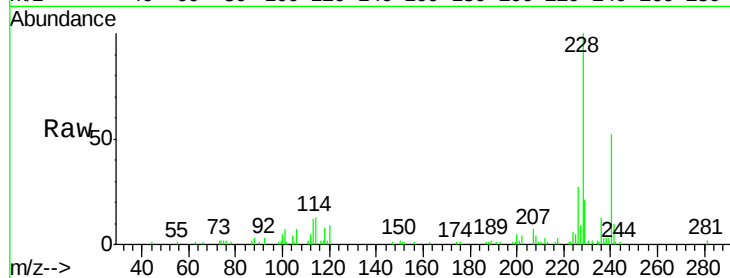
ClientSampleId :

BC994

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 41926 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 229       | 20.8  | 15.7  | 23.5  |
| 226       | 27.1  | 21.8  | 32.6  |

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#85

Chrysene

Concen: 3.89 ng/ul

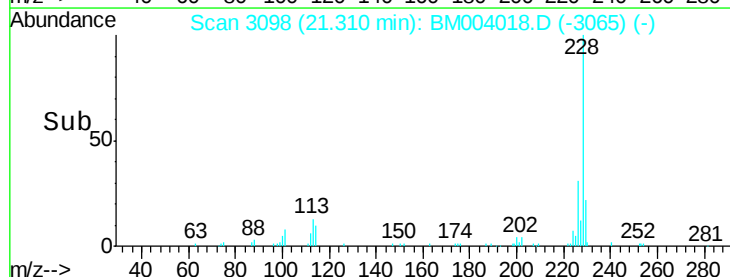
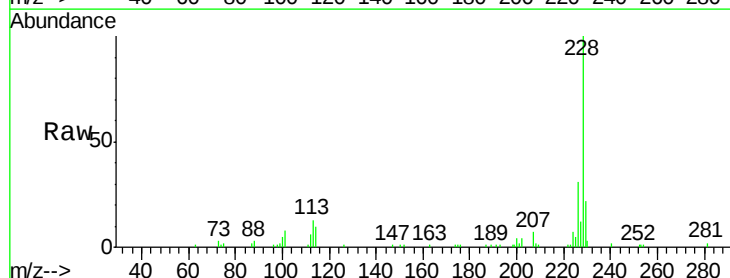
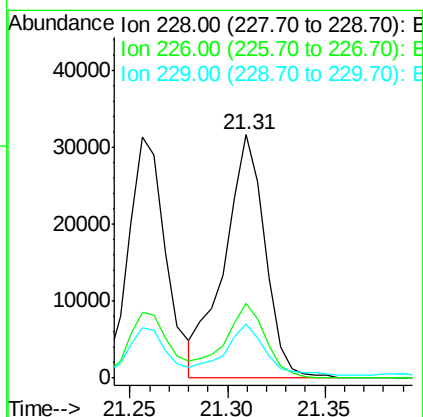
RT: 21.31 min Scan# 3098

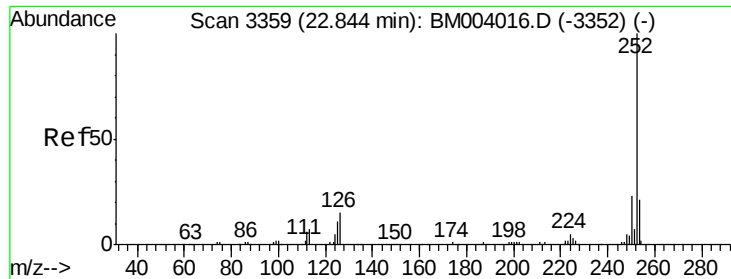
Delta R.T. -0.01 min

Lab File: BM004018.D

Acq: 14 Jan 2016 18:32

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 45820 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.9  | 24.0  | 36.0  |
| 229       | 22.2  | 15.6  | 23.4  |





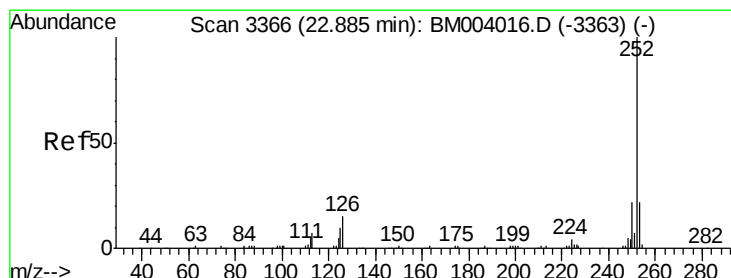
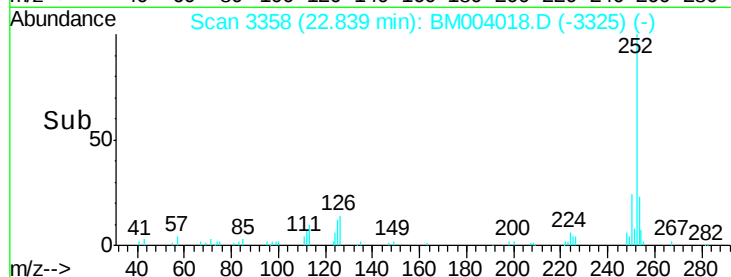
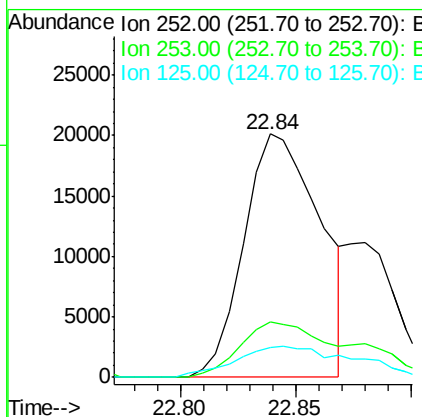
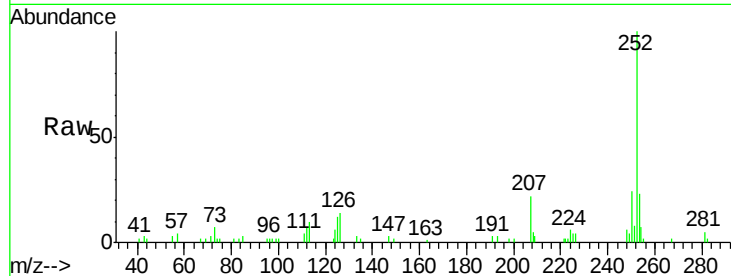
#88  
Benzo(b)fluoranthene  
Concen: 4.01 ng/ul  
RT: 22.84 min Scan# 3358  
Delta R.T. -0.01 min  
Lab File: BM004018.D  
Acq: 14 Jan 2016 18:32

Instrument :  
BNA\_M  
ClientSampled :  
BC994

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 17.5  | 26.3  |
| 125     | 12.2  | 8.5   | 12.7  |

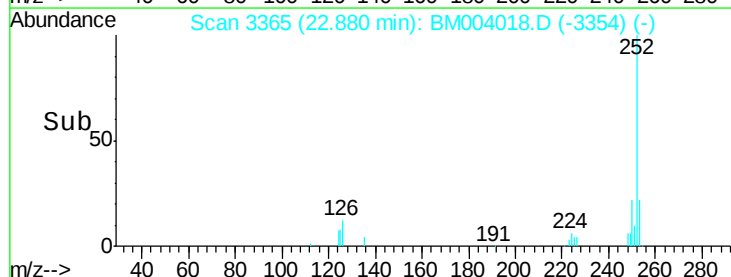
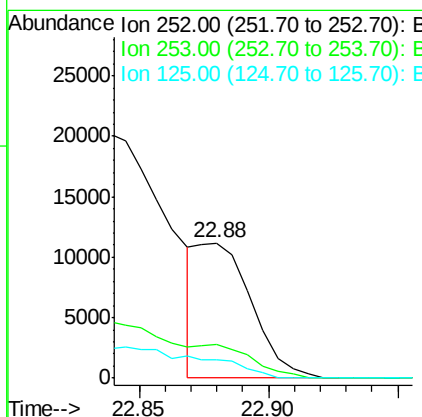
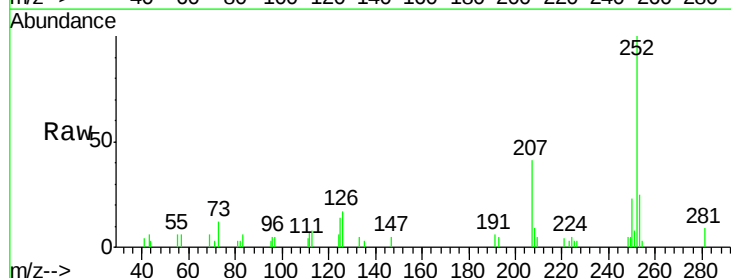
Manual Integrations  
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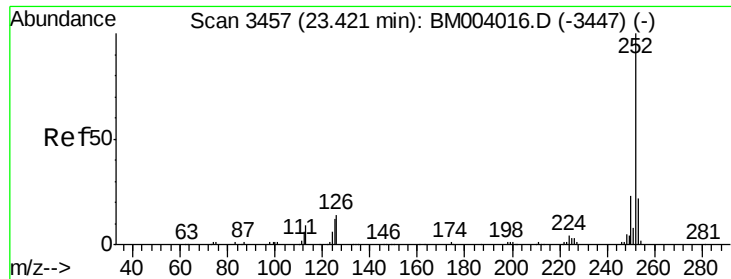
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#89  
Benzo(k)fluoranthene  
Concen: 1.49 ng/ul m  
RT: 22.88 min Scan# 3365  
Delta R.T. -0.01 min  
Lab File: BM004018.D  
Acq: 14 Jan 2016 18:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.6  | 17.3  | 25.9  |
| 125     | 13.7  | 8.2   | 12.2# |





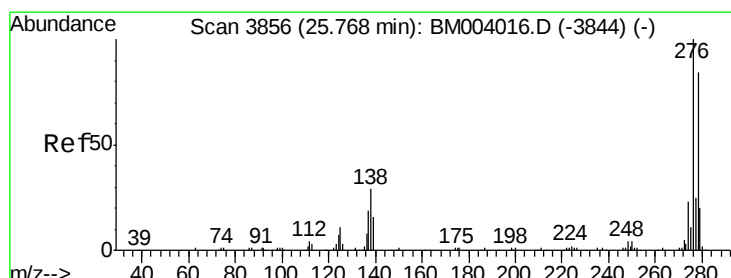
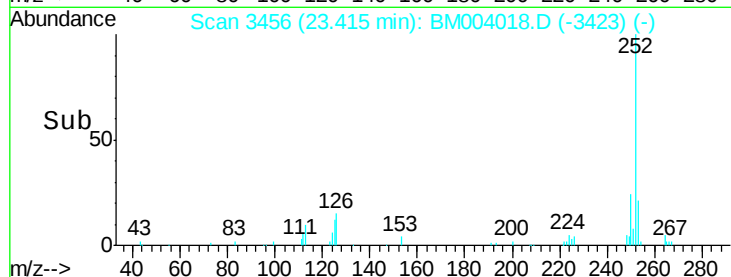
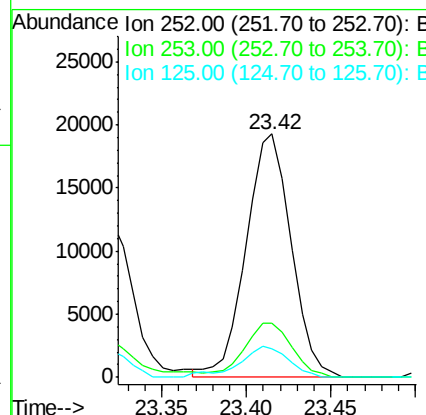
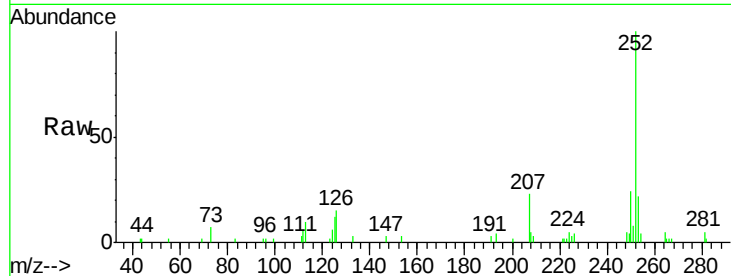
#91  
Benzo(a)pyrene  
Concen: 3.28 ng/ul  
RT: 23.42 min Scan# 3456  
Delta R.T. -0.01 min  
Lab File: BM004018.D  
Acq: 14 Jan 2016 18:32

Instrument :  
BNA\_M  
ClientSampled :  
BC994

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 17.2  | 25.8  |
| 125     | 11.5  | 9.0   | 13.6  |

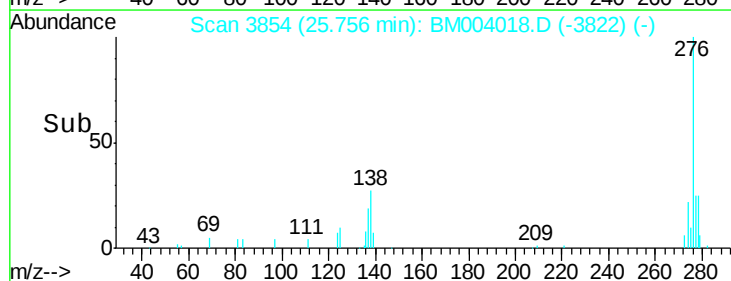
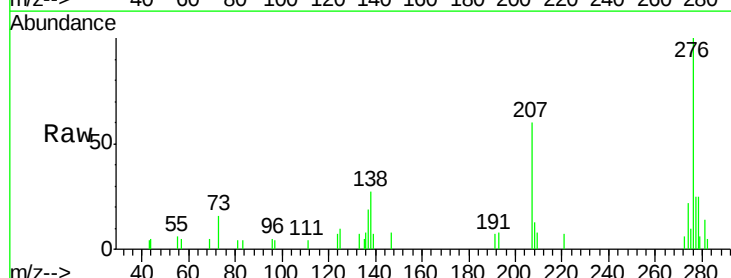
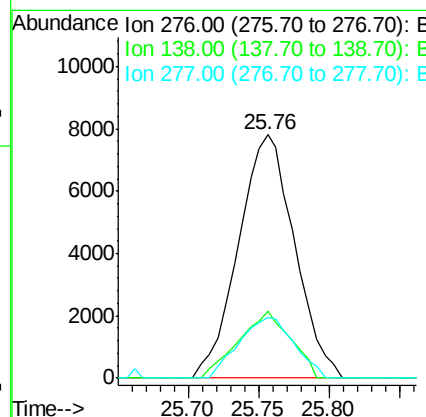
Manual Integrations  
APPROVED

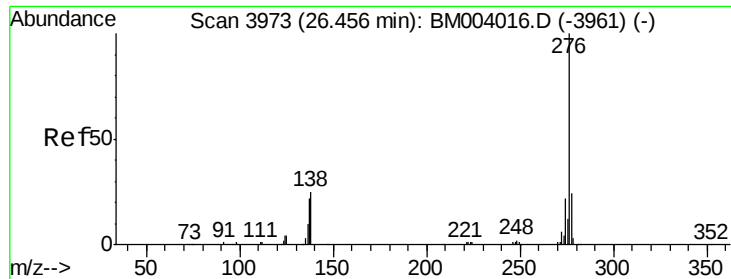
mohammad  
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#92  
Indeno(1,2,3-cd)pyrene  
Concen: 1.79 ng/ul  
RT: 25.76 min Scan# 3854  
Delta R.T. -0.01 min  
Lab File: BM004018.D  
Acq: 14 Jan 2016 18:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 27.3  | 22.3  | 33.5  |
| 277     | 24.9  | 20.2  | 30.2  |





#94  
 Benzo(g,h,i)perylene  
 Concen: 1.76 ng/ul  
 RT: 26.44 min Scan# 3971  
 Delta R.T. -0.01 min  
 Lab File: BM004018.D  
 Acq: 14 Jan 2016 18:32

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BC994

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 276  | Resp: | 17851 |
| Ion Ratio |      | Lower | Upper |
| 276       | 100  |       |       |
| 138       | 25.6 | 18.9  | 28.3  |
| 277       | 25.2 | 19.2  | 28.8  |

Manual Integrations  
 APPROVED

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 1/15/2016 3:02:57 PM

