

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM072315\  
 Data File : BM002016.D  
 Acq On : 23 Jul 2015 14:56  
 Operator : TP/UM  
 Sample : G3000-04RE  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C02B0RE

Manual Integrations  
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apatel  
 7/24/2015 4:48:49 PM

Quant Time: Jul 24 01:44:46 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM071315.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Jul 24 01:29:30 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.61  | 152  | 82246    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.40 | 136  | 323239   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.27 | 164  | 183773   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.02 | 188  | 409047   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.23 | 240  | 469966   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.44 | 264  | 485526   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |      |       |      |
|--------------------------------|-------|-----|--------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.09  | 96  | 1970   | 1.17 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.79  | 99  | 53175  | 7.92 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.95  | 67  | 28638  | 7.83 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.15  | 132 | 45016  | 8.44 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.32  | 113 | 33967  | 6.16 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.77  | 128 | 20451  | 8.47 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.49  | 143 | 21392  | 8.00 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.03 | 165 | 45830  | 8.47 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.55 | 131 | 30534  | 5.49 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.69 | 166 | 147994 | 9.98 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.96 | 160 | 160836 | 9.02 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.49 | 143 | 19978  | 7.96 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.27 | 176 | 116250 | 9.18 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.40 | 200 | 6727   | 2.54 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.12 | 188 | 170943 | 8.90 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.43 | 212 | 184029 | 8.57 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.30 | 264 | 178658 | 7.28 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |        |      |        | Qvalue |
|----------------------------|-------|-----|--------|------|--------|--------|
| 14) Acetophenone           | 8.43  | 105 | 12414  | 1.42 | ng/ul# | 94     |
| 44) Dimethylphthalate      | 13.73 | 163 | 121218 | 8.04 | ng/ul  | 99     |
| 69) Phenanthrene           | 17.07 | 178 | 56130  | 2.53 | ng/ul  | 98     |
| 76) Fluoranthene           | 19.09 | 202 | 127841 | 4.94 | ng/ul  | 99     |
| 79) Pyrene                 | 19.46 | 202 | 124638 | 4.43 | ng/ul  | 98     |
| 82) Benzo(a)anthracene     | 21.21 | 228 | 73787  | 2.64 | ng/ul# | 92     |
| 84) Chrysene               | 21.26 | 228 | 97640  | 3.73 | ng/ul# | 95     |
| 87) Benzo(b)fluoranthene   | 22.77 | 252 | 130914 | 4.40 | ng/ul# | 79     |
| 88) Benzo(k)fluoranthene   | 22.81 | 252 | 39769m | 1.39 | ng/ul  |        |
| 90) Benzo(a)pyrene         | 23.34 | 252 | 86765  | 3.10 | ng/ul# | 81     |
| 91) Indeno(1,2,3-cd)pyrene | 25.67 | 276 | 62243  | 2.12 | ng/ul# | 92     |
| 93) Benzo(g,h,i)perylene   | 26.36 | 276 | 56897  | 2.36 | ng/ul# | 86     |

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

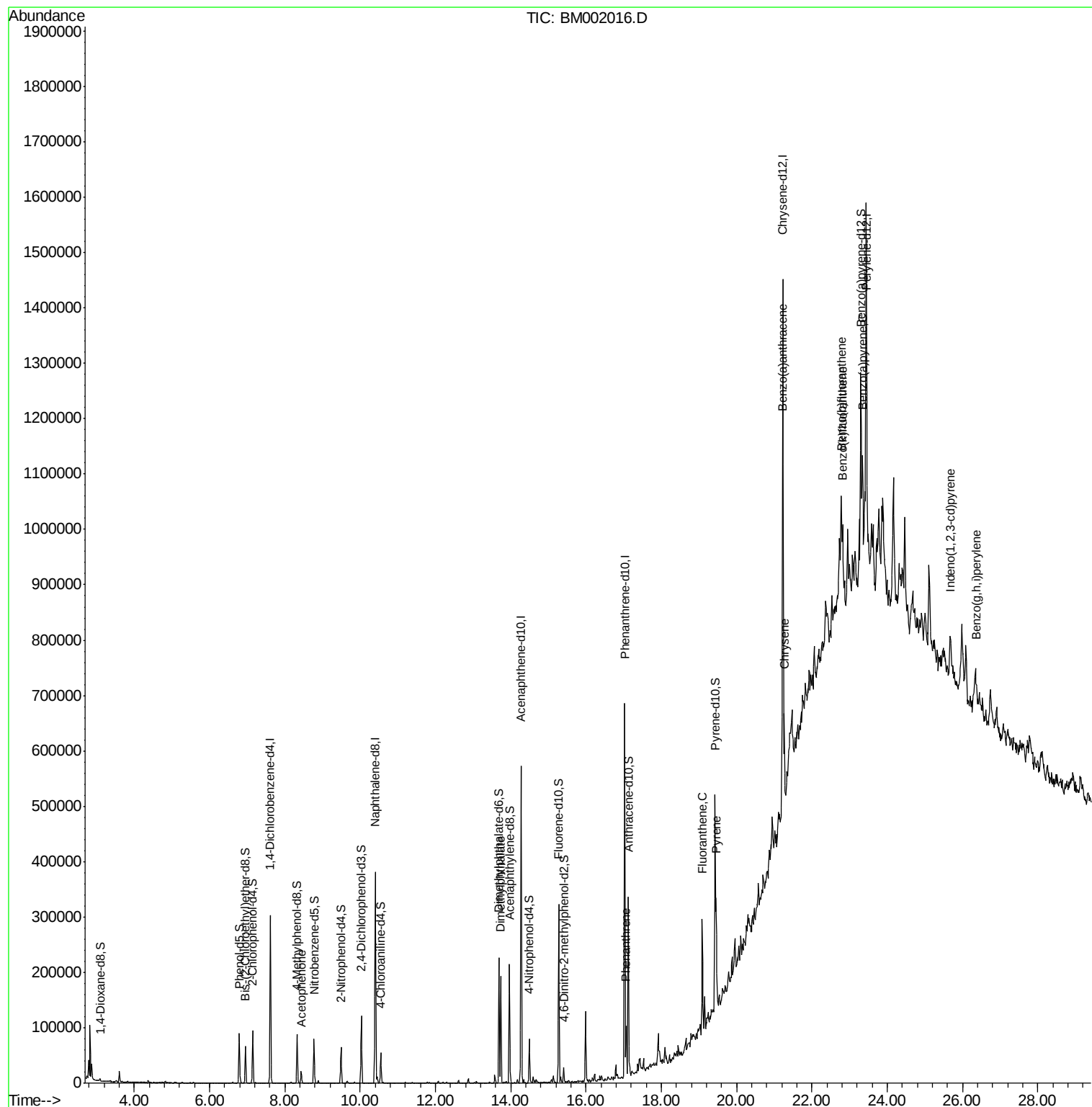
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM072315\  
Data File : BM002016.D  
Acq On : 23 Jul 2015 14:56  
Operator : TP/UM  
Sample : G3000-04RE  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

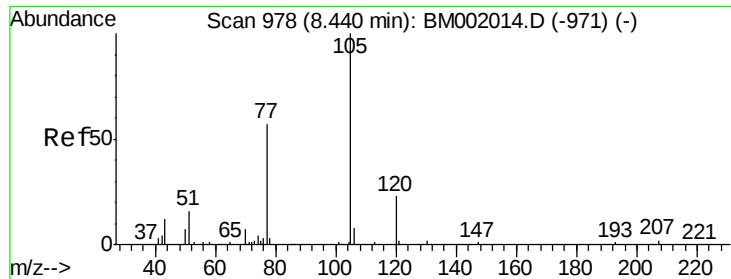
Instrument :  
BNA\_M  
ClientSampled :  
C02B0RE

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7/24/2015 4:48:49 PM

Quant Time: Jul 24 01:44:46 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM071315.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Jul 24 01:29:30 2015  
Response via : Initial Calibration





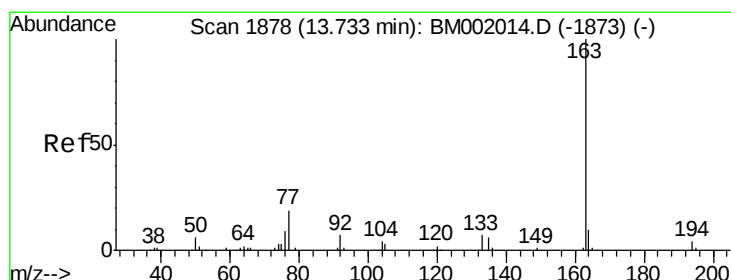
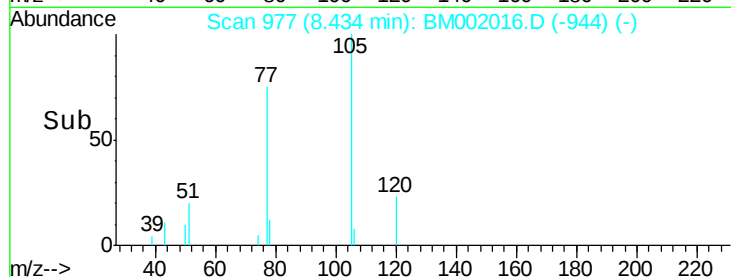
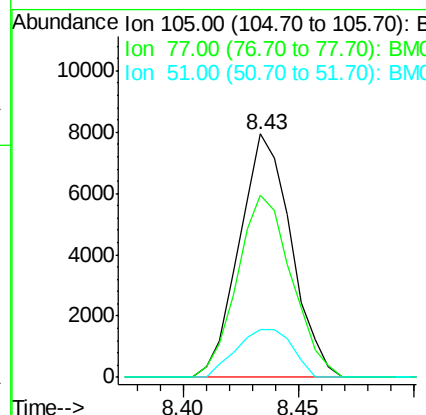
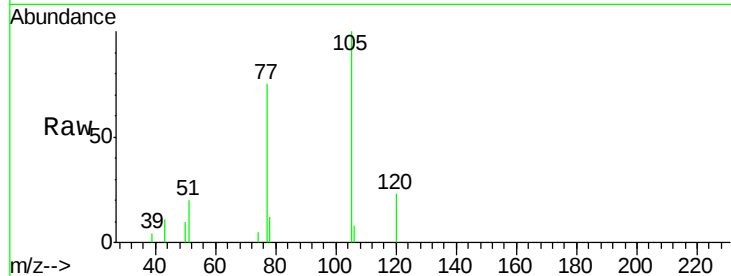
#14  
Acetophenone  
Concen: 1.42 ng/ul  
RT: 8.43 min Scan# 977  
Delta R.T. -0.01 min  
Lab File: BM002016.D  
Acq: 23 Jul 2015 14:56

Instrument :  
BNA\_M  
ClientSampled :  
C02B0RE

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 105     | 100   |            |            |
| 77      | 74.9  | 62.2       | 93.4       |
| 51      | 19.7  | 21.4       | 32.0       |

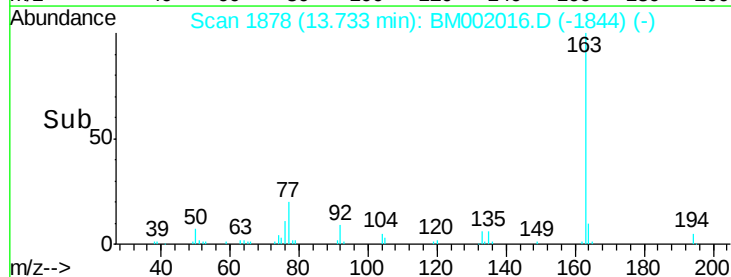
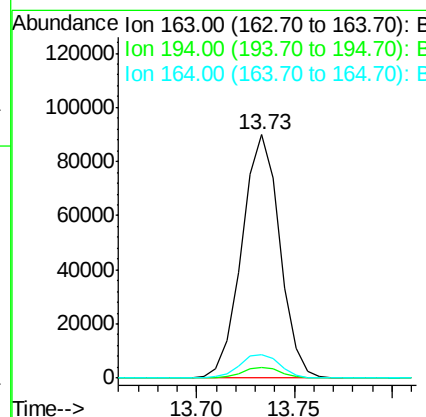
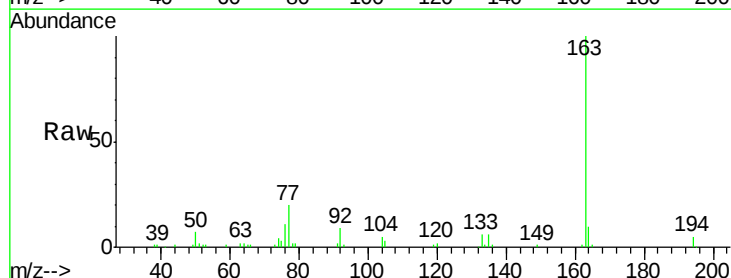
Manual Integrations  
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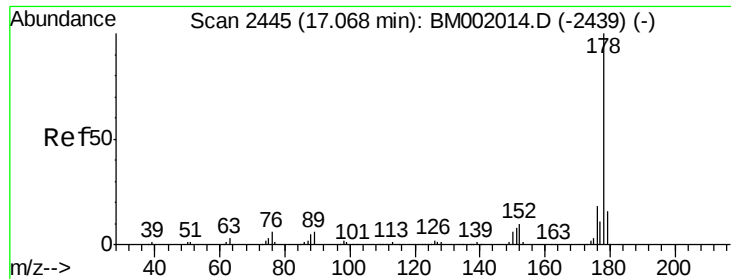
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#44  
Dimethylphthalate  
Concen: 8.04 ng/ul  
RT: 13.73 min Scan# 1878  
Delta R.T. -0.00 min  
Lab File: BM002016.D  
Acq: 23 Jul 2015 14:56

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 163     | 100   |            |            |
| 194     | 4.6   | 3.5        | 5.3        |
| 164     | 9.9   | 8.2        | 12.4       |





#69

Phenanthrene

Concen: 2.53 ng/ul

RT: 17.07 min Scan# 2445

Delta R.T. -0.00 min

Lab File: BM002016.D

Acq: 23 Jul 2015 14:56

Instrument :

BNA\_M

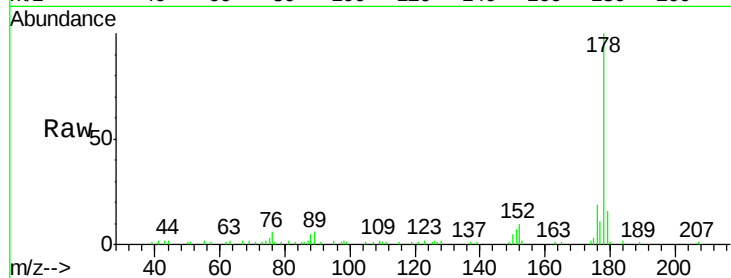
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C02B0RE

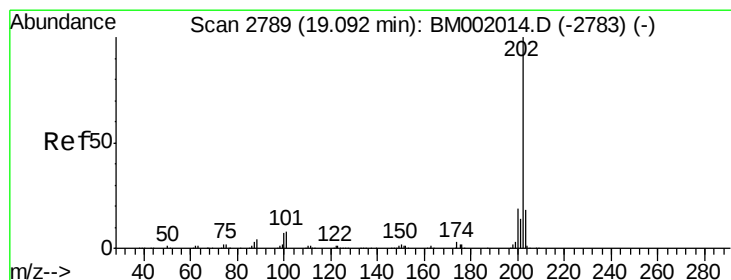
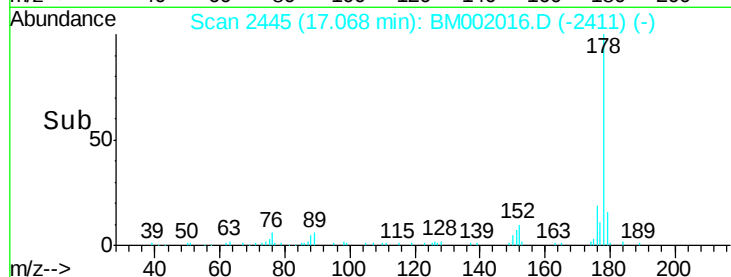
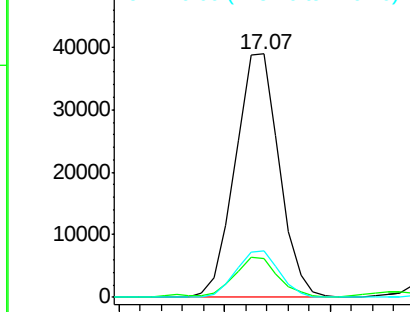
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 56130 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 15.9  | 12.1  | 18.1  |
| 176       | 19.3  | 14.6  | 21.8  |

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Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E



#76

Fluoranthene

Concen: 4.94 ng/ul

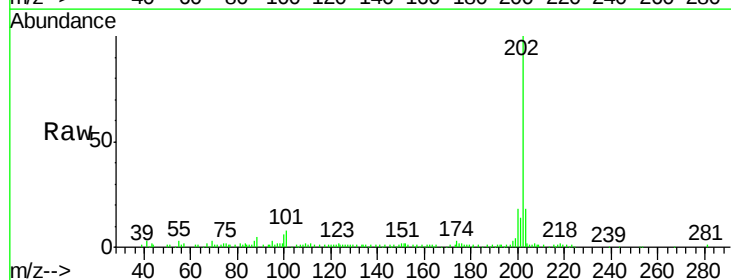
RT: 19.09 min Scan# 2789

Delta R.T. -0.00 min

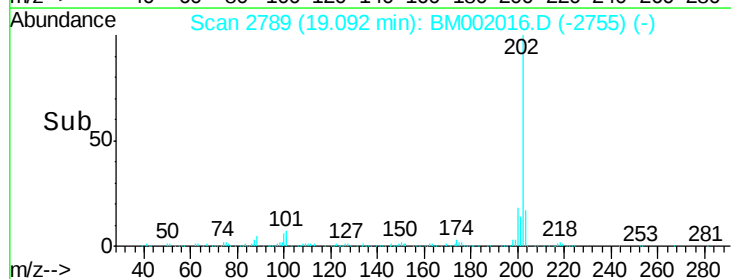
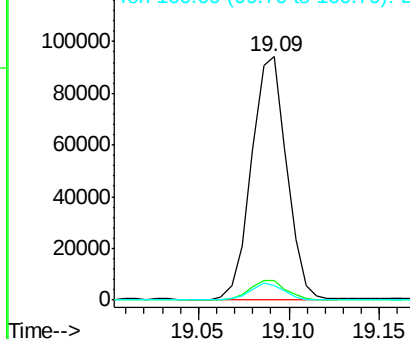
Lab File: BM002016.D

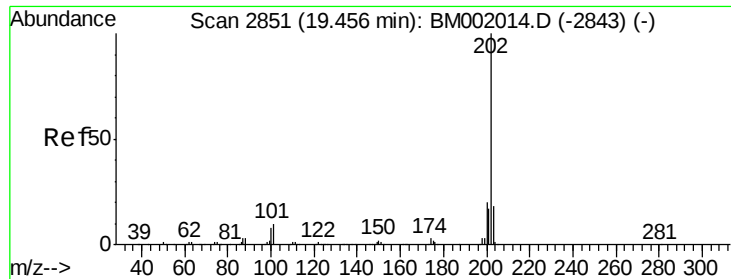
Acq: 23 Jul 2015 14:56

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 127841 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 7.8   | 6.3   | 9.5    |
| 100       | 5.8   | 5.0   | 7.4    |



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





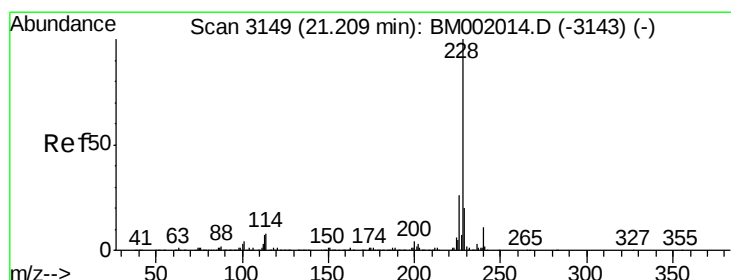
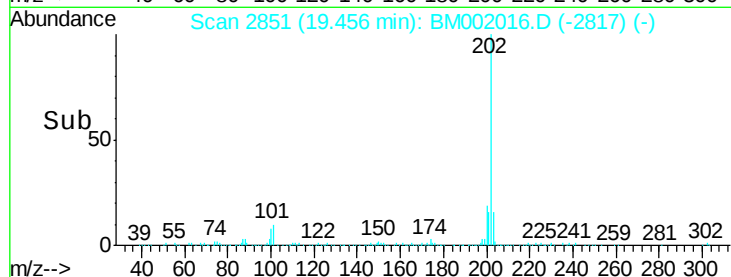
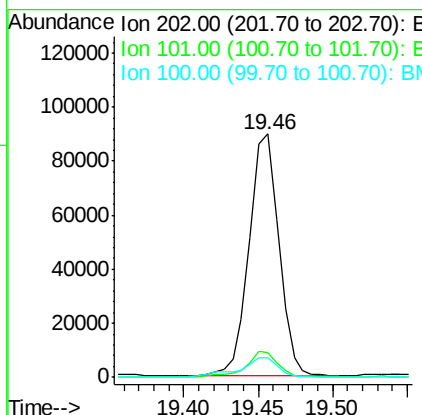
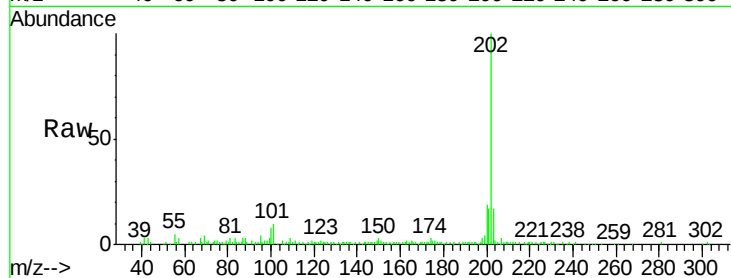
#79  
 Pyrene  
 Concen: 4.43 ng/ul  
 RT: 19.46 min Scan# 2851  
 Delta R.T. -0.00 min  
 Lab File: BM002016.D  
 Acq: 23 Jul 2015 14:56

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C02B0RE

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 10.0  | 7.3        | 10.9       |
| 100     | 8.2   | 6.2        | 9.4        |

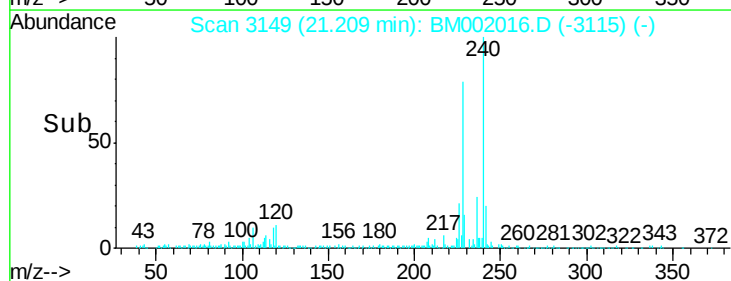
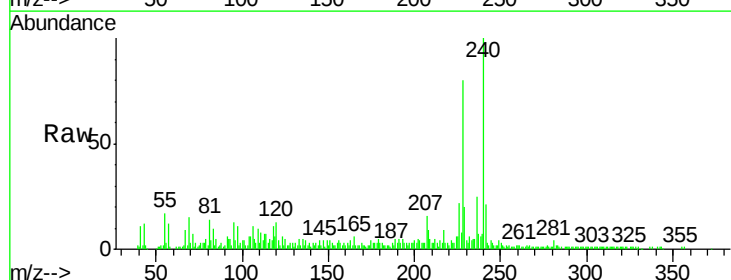
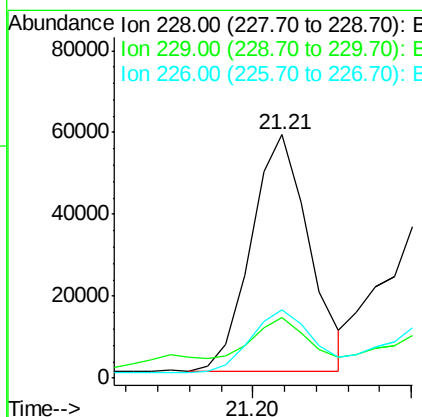
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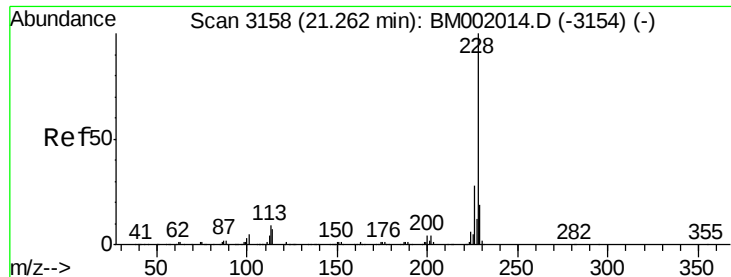
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#82  
 Benzo(a)anthracene  
 Concen: 2.64 ng/ul  
 RT: 21.21 min Scan# 3149  
 Delta R.T. -0.00 min  
 Lab File: BM002016.D  
 Acq: 23 Jul 2015 14:56

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 25.0  | 15.4       | 23.2#      |
| 226     | 28.0  | 20.7       | 31.1       |





#84

Chrysene

Concen: 3.73 ng/ul

RT: 21.26 min Scan# 3158

Delta R.T. -0.00 min

Lab File: BM002016.D

Acq: 23 Jul 2015 14:56

Instrument :

BNA\_M

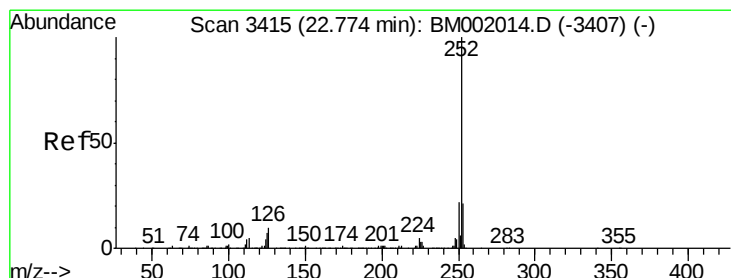
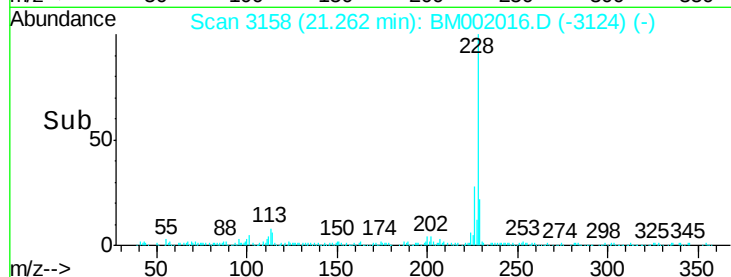
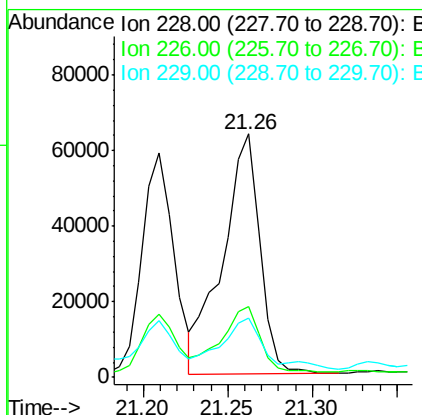
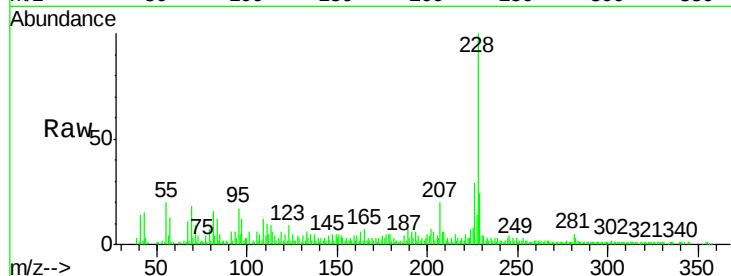
ClientSampleId :

C02B0RE

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 97640 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.3  | 23.0  | 34.4  |
| 229       | 24.2  | 15.6  | 23.4# |

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#87

Benzo(b)fluoranthene

Concen: 4.40 ng/ul

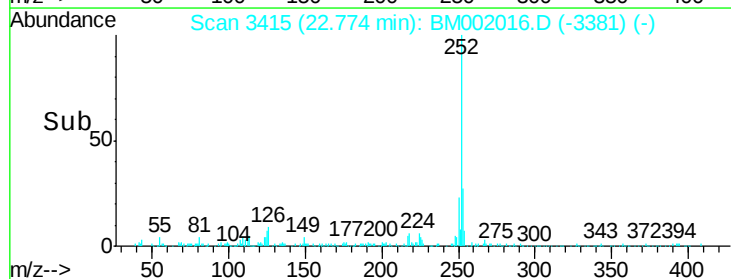
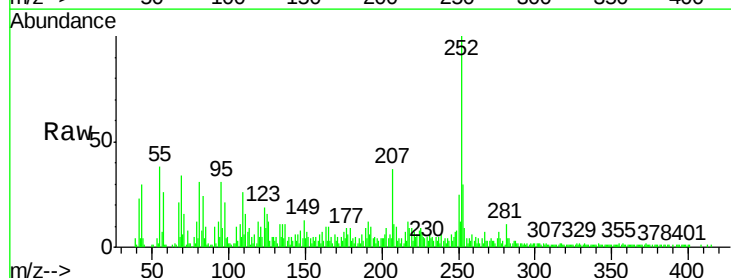
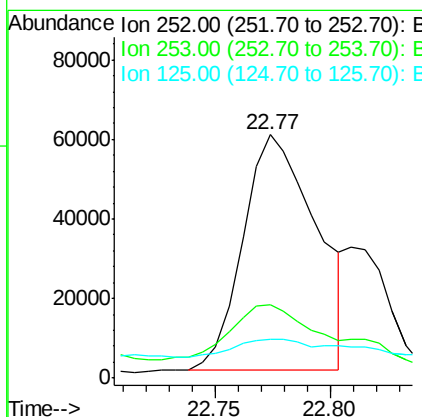
RT: 22.77 min Scan# 3415

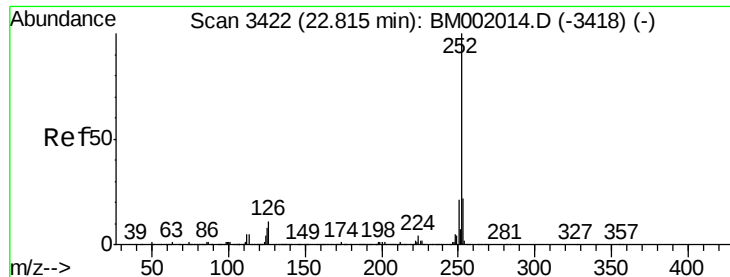
Delta R.T. -0.00 min

Lab File: BM002016.D

Acq: 23 Jul 2015 14:56

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 130914 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 30.2  | 17.2  | 25.8#  |
| 125       | 15.9  | 5.3   | 7.9#   |





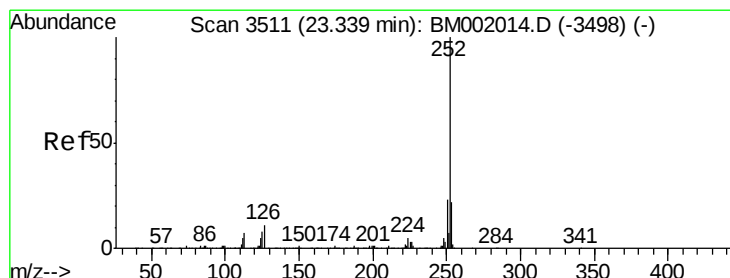
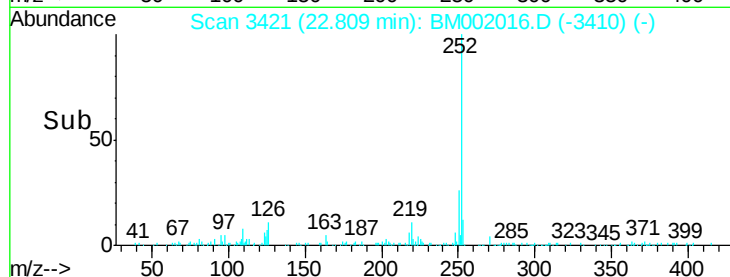
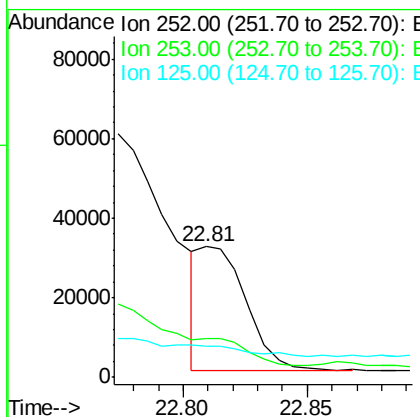
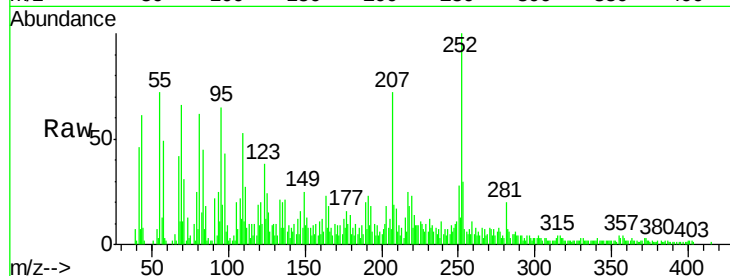
#88  
Benzo(k)fluoranthene  
Concen: 1.39 ng/ul m  
RT: 22.81 min Scan# 3421  
Delta R.T. -0.01 min  
Lab File: BM002016.D  
Acq: 23 Jul 2015 14:56

Instrument :  
BNA\_M  
ClientSampleId :  
C02B0RE

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 30.1  | 17.4  | 26.2# |
| 125     | 24.0  | 5.1   | 7.7#  |

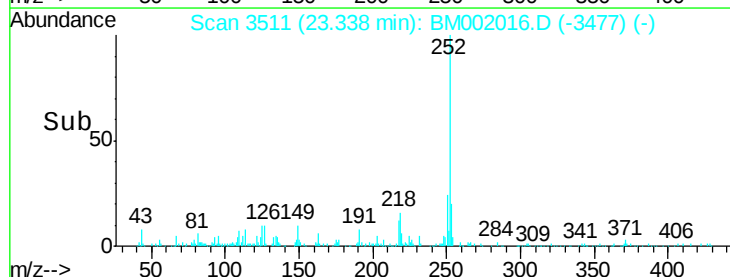
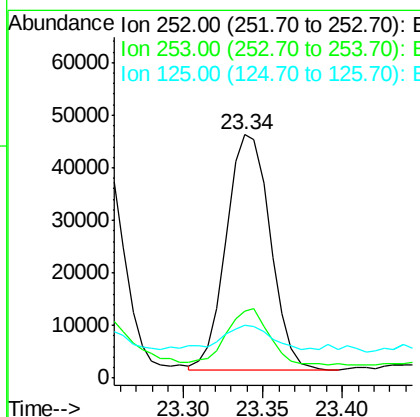
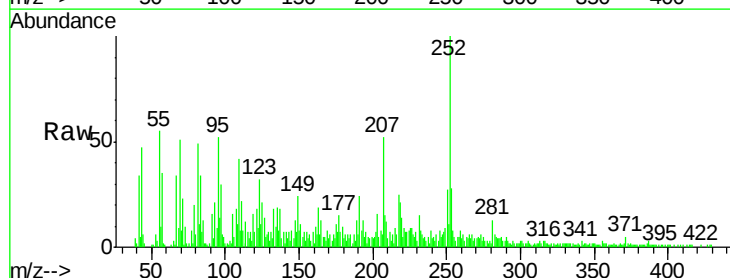
Manual Integrations  
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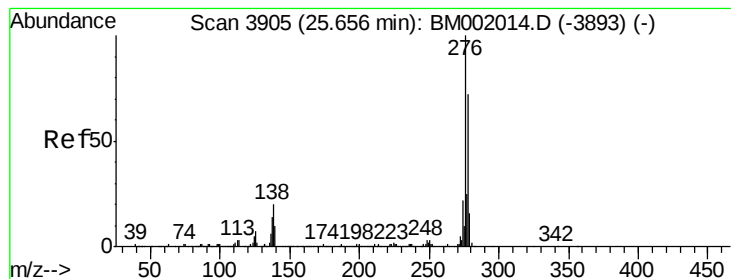
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#90  
Benzo(a)pyrene  
Concen: 3.10 ng/ul  
RT: 23.34 min Scan# 3511  
Delta R.T. -0.00 min  
Lab File: BM002016.D  
Acq: 23 Jul 2015 14:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.6  | 17.6  | 26.4# |
| 125     | 21.5  | 6.0   | 9.0#  |





#91

Indeno(1,2,3-cd)pyrene

Concen: 2.12 ng/ul

RT: 25.67 min Scan# 3907

Delta R.T. 0.01 min

Lab File: BM002016.D

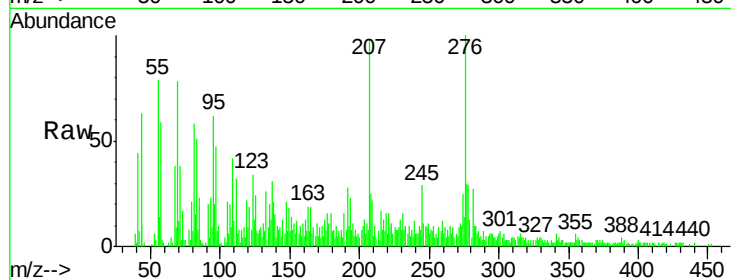
Acq: 23 Jul 2015 14:56

Instrument :

BNA\_M

ClientSampleId :

C02B0RE



Tgt Ion: 276 Resp: 62243

Ion Ratio Lower Upper

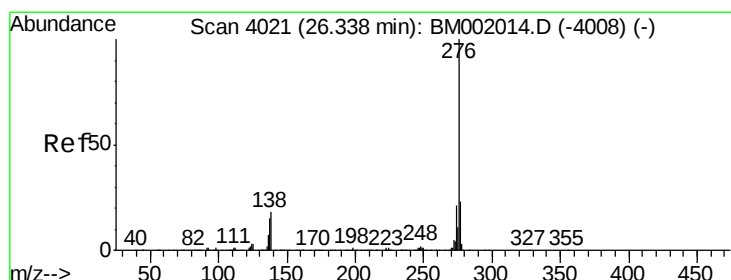
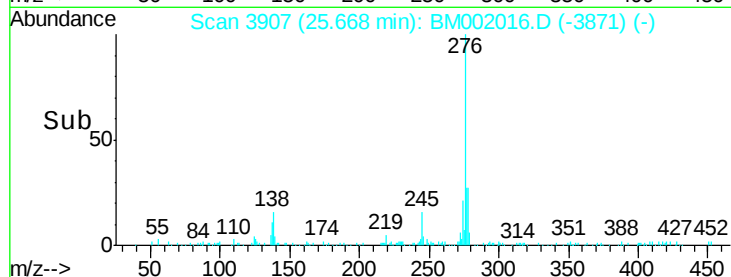
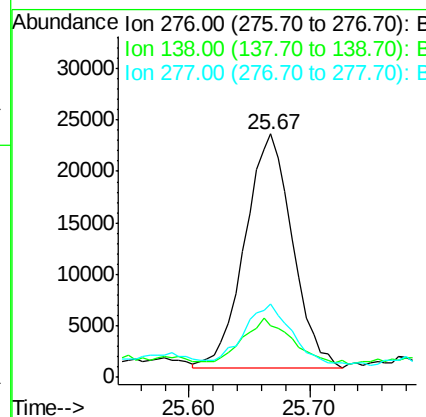
276 100

138 21.2 15.2 22.8

277 30.1 20.1 30.1#

Manual Integrations  
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#93

Benzo(g,h,i)perylene

Concen: 2.36 ng/ul

RT: 26.36 min Scan# 4024

Delta R.T. 0.02 min

Lab File: BM002016.D

Acq: 23 Jul 2015 14:56

Tgt Ion: 276 Resp: 56897

Ion Ratio Lower Upper

276 100

138 23.1 12.7 19.1#

277 28.9 18.6 28.0#

