

Data Path : Z:\HPCHEM1\BNA M\DATA\BM071416\  
 Data File : BM006420.D  
 Acq On : 14 Jul 2016 20:31  
 Operator : UM/SJ  
 Sample : H3990-03  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BDJ62

## Manual Integrations

APPROVED  
 Sohil  
 7/15/2016 9:15:14 AM

Quant Time: Jul 15 04:48:13 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM071416.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Jul 15 04:34:07 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.62  | 152  | 108790   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.40 | 136  | 451481   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.27 | 164  | 275420   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.02 | 188  | 672522   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.22 | 240  | 835669   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.42 | 264  | 888211   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.14  | 96  | 5326    | 2.06  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.80  | 99  | 236371  | 26.51 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.96  | 67  | 145198  | 26.85 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.16  | 132 | 190686  | 26.40 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.33  | 113 | 176603  | 24.93 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.77  | 128 | 88629   | 25.90 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.49  | 143 | 99986   | 25.84 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.03 | 165 | 180704  | 24.76 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.55 | 131 | 208755  | 27.36 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.69 | 166 | 629395  | 27.92 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 13.96 | 160 | 760061  | 27.27 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.49 | 143 | 87431   | 22.33 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.27 | 176 | 548171  | 27.36 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.40 | 200 | 70511   | 18.12 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.12 | 188 | 871512  | 27.42 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.42 | 212 | 1048788 | 27.68 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.29 | 264 | 1161704 | 28.60 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |        |             | Ovalue |
|--------------------------------|-------|-----|--------|-------------|--------|
| 44) Dimethylphthalate          | 13.73 | 163 | 257225 | 11.25 ng/ul | 100    |
| 69) Phenanthrene               | 17.06 | 178 | 60608  | 1.64 ng/ul  | 98     |
| 71) Anthracene                 | 17.16 | 178 | 38174  | 1.00 ng/ul  | 96     |
| 74) Fluoranthene               | 19.09 | 202 | 195902 | 4.56 ng/ul  | 99     |
| 77) Pyrene                     | 19.45 | 202 | 185502 | 3.72 ng/ul  | 99     |
| 80) Benzo(a)anthracene         | 21.20 | 228 | 145469 | 2.85 ng/ul  | 97     |
| 81) Bis(2-ethylhexyl)phthalate | 21.14 | 149 | 102435 | 3.36 ng/ul  | 97     |
| 82) Chrysene                   | 21.26 | 228 | 151464 | 3.15 ng/ul  | 97     |
| 85) Benzo(b)fluoranthene       | 22.77 | 252 | 193945 | 3.65 ng/ul# | 97     |
| 86) Benzo(k)fluoranthene       | 22.80 | 252 | 77392m | 1.55 ng/ul  |        |
| 88) Benzo(a)pyrene             | 23.33 | 252 | 165525 | 3.26 ng/ul  | 98     |
| 89) Indeno(1,2,3-cd)pyrene     | 25.61 | 276 | 101920 | 1.72 ng/ul  | 96     |
| 91) Benzo(g,h,i)perylene       | 26.29 | 276 | 90410  | 1.73 ng/ul# | 96     |

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

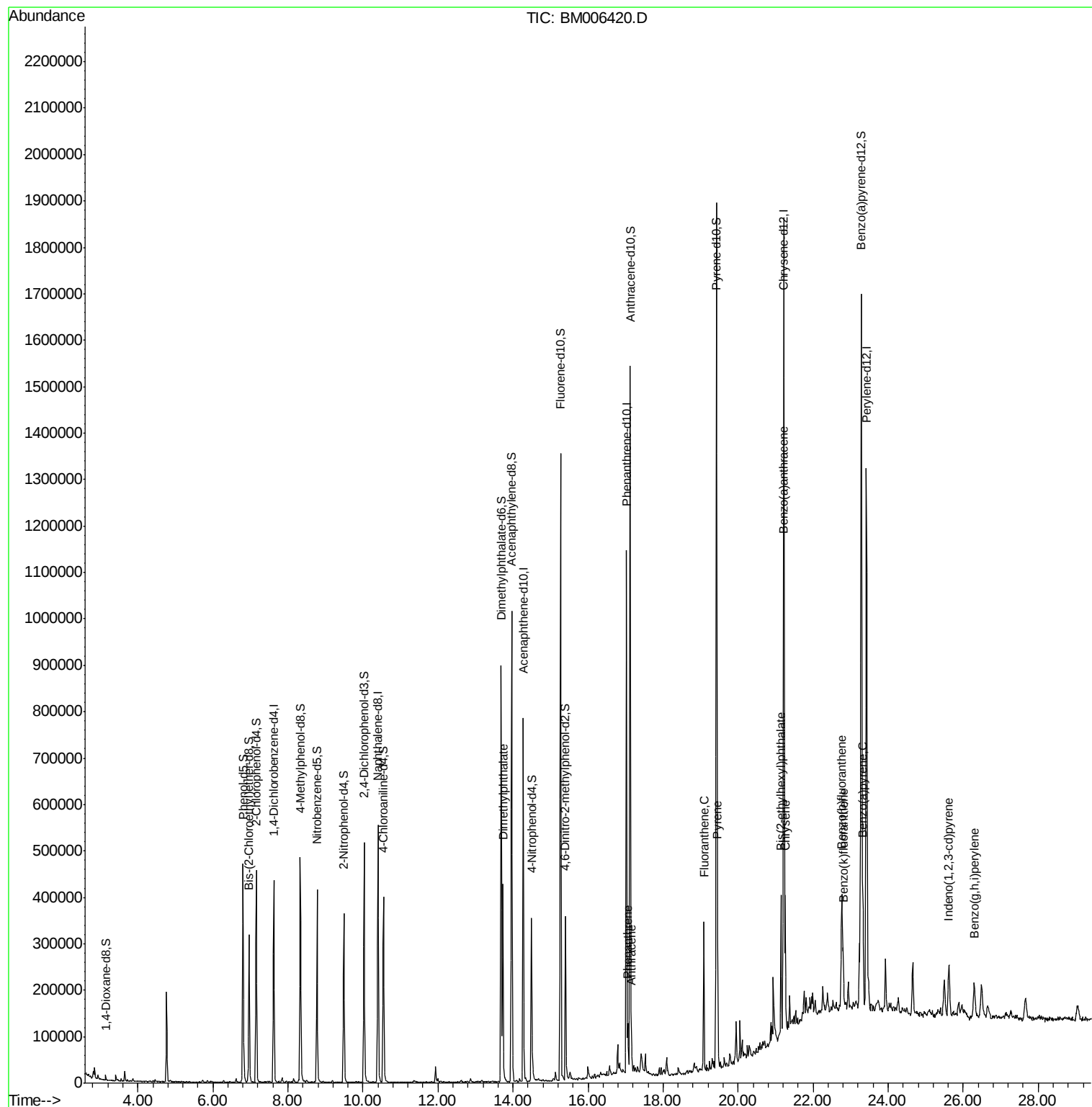
Data Path : Z:\HPCHEM1\BNA M\DATA\BM071416\  
Data File : BM006420.D  
Acq On : 14 Jul 2016 20:31  
Operator : UM/SJ  
Sample : H3990-03  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

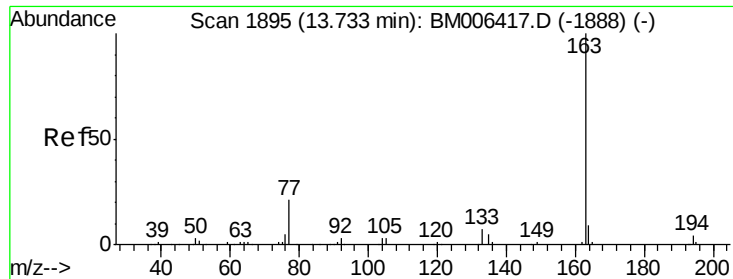
Instrument :  
BNA\_M  
ClientSampleId :  
BDJ62

Manual Integrations

Quant Time: Jul 15 04:48:13 2016  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM071416.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Jul 15 04:34:07 2016  
Response via : Initial Calibration

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#44

Dimethylphthalate

Concen: 11.25 ng/ul

RT: 13.73 min Scan# 1895

Delta R.T. 0.00 min

Lab File: BM006420.D

Acq: 14 Jul 2016 20:31

Instrument :

BNA\_M

ClientSampleId :

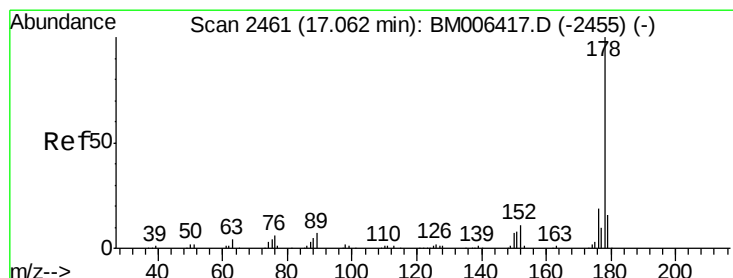
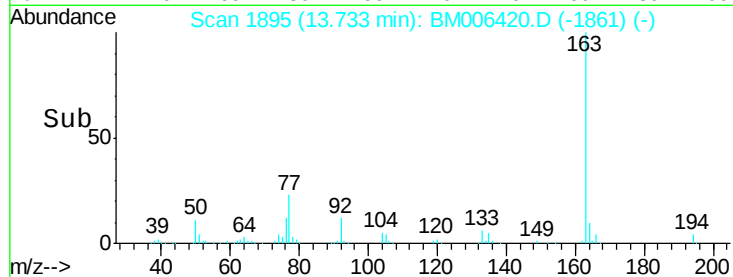
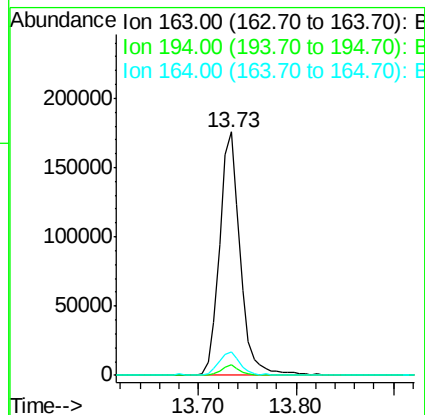
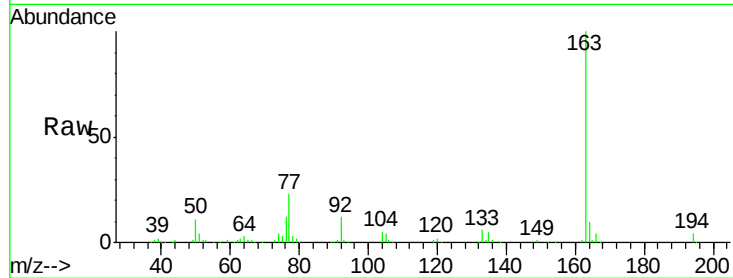
BDJ62

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 163   | Resp: | 257225 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 4.1   | 3.4   | 5.0    |
| 164       | 9.9   | 7.8   | 11.8   |

Manual Integrations

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#69

Phenanthrene

Concen: 1.64 ng/ul

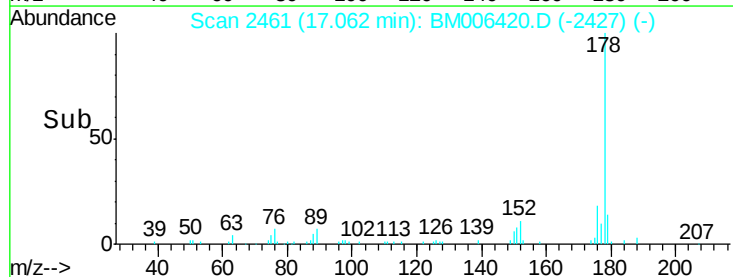
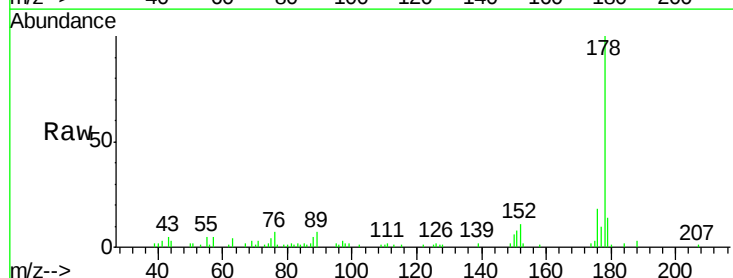
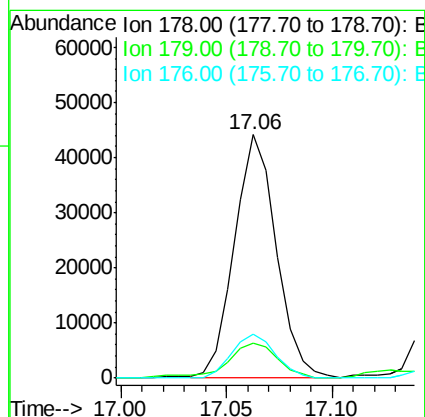
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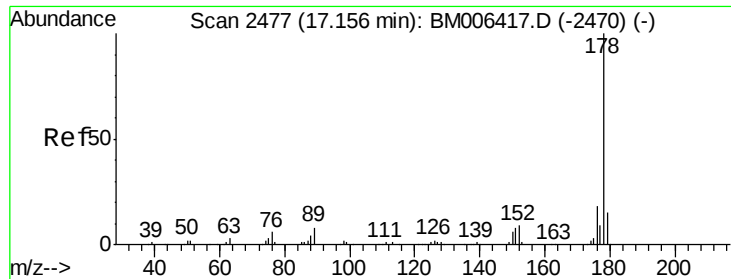
Delta R.T. 0.00 min

Lab File: BM006420.D

Acq: 14 Jul 2016 20:31

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 60608 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 14.4  | 11.9  | 17.9  |
| 176       | 18.0  | 15.2  | 22.8  |





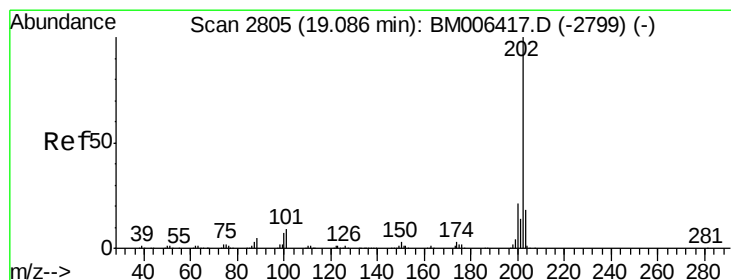
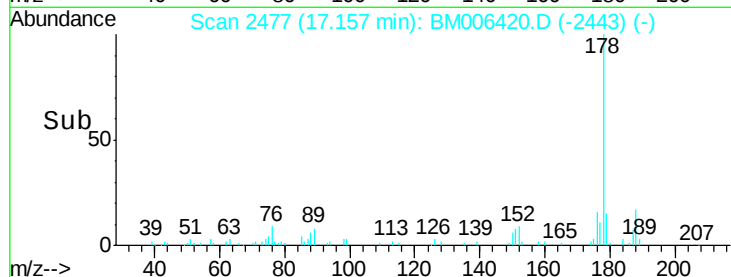
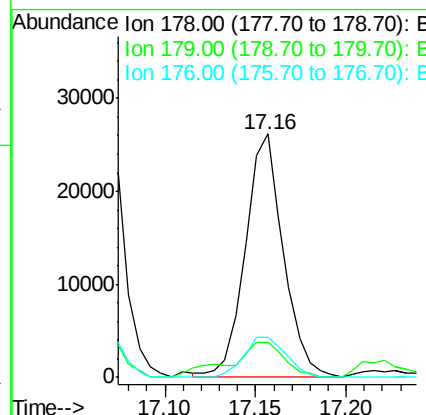
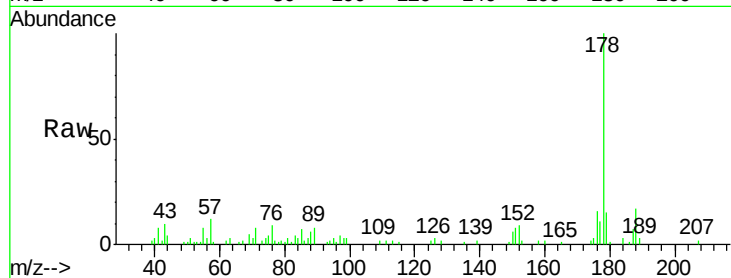
#71  
 Anthracene  
 Concen: 1.00 ng/ul  
 RT: 17.16 min Scan# 2477  
 Delta R.T. 0.00 min  
 Lab File: BM006420.D  
 Acq: 14 Jul 2016 20:31

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BDJ62

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 178     | 100  |       |       |       |
| 179     | 14.6 | 12.0  | 18.0  |       |
| 176     | 16.3 | 15.0  | 22.6  |       |

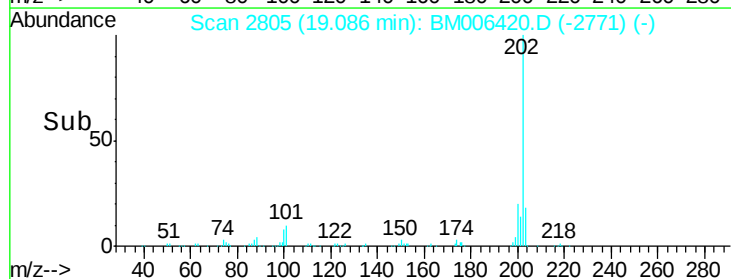
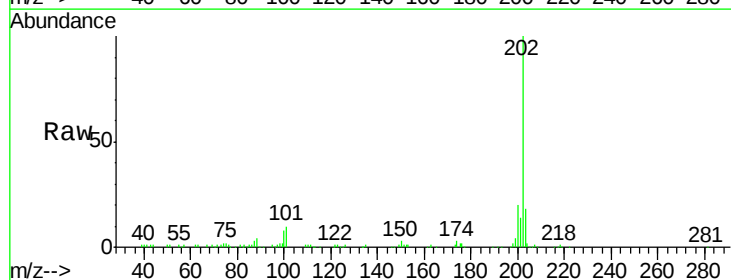
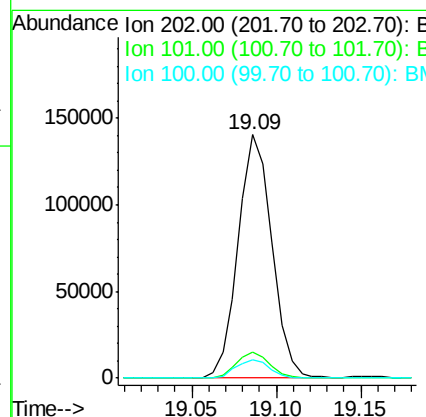
Manual Integrations

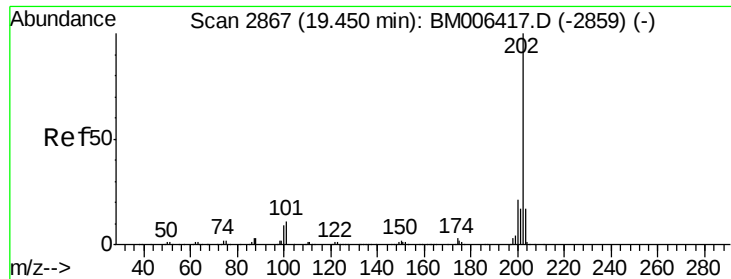
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#74  
 Fluoranthene  
 Concen: 4.56 ng/ul  
 RT: 19.09 min Scan# 2805  
 Delta R.T. 0.00 min  
 Lab File: BM006420.D  
 Acq: 14 Jul 2016 20:31

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 202     | 100  |       |       |       |
| 101     | 10.5 | 8.6   | 12.8  |       |
| 100     | 7.6  | 6.4   | 9.6   |       |





#77

Pvrene

Concen: 3.72 ng/ul

RT: 19.45 min Scan# 2867

Delta R.T. 0.00 min

Lab File: BM006420.D

Acq: 14 Jul 2016 20:31

Instrument :

BNA\_M

ClientSampleId :

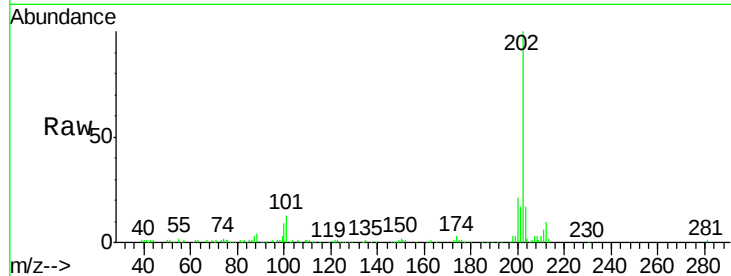
BDJ62

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 185502 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 12.7  | 10.0  | 15.0   |
| 100       | 9.5   | 7.9   | 11.9   |

Manual Integrations

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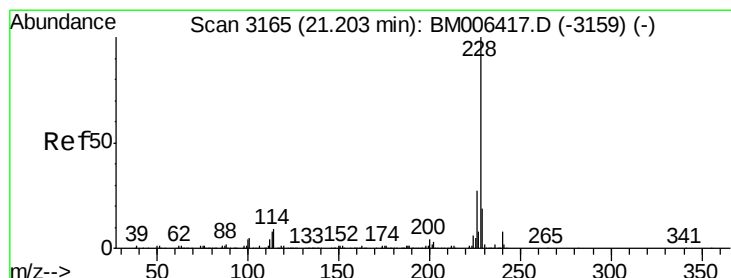
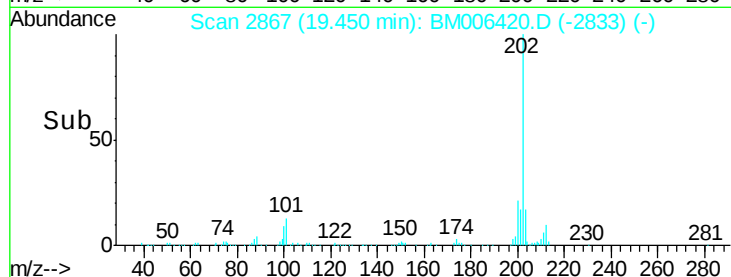
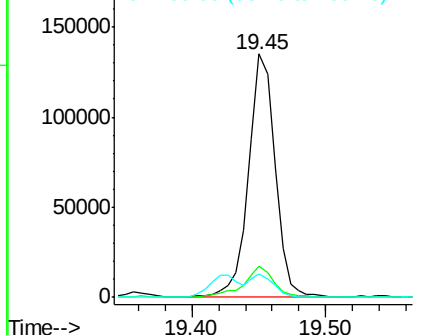
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E



#80

Benzo(a)anthracene

Concen: 2.85 ng/ul

RT: 21.20 min Scan# 3165

Delta R.T. 0.00 min

Lab File: BM006420.D

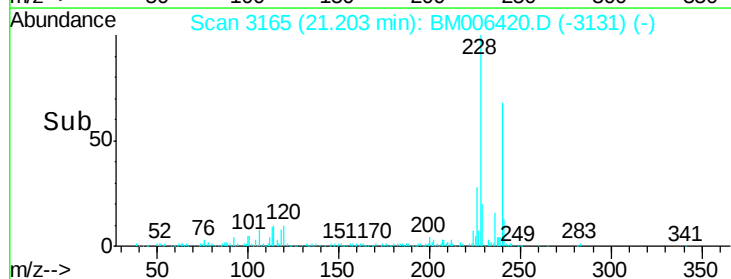
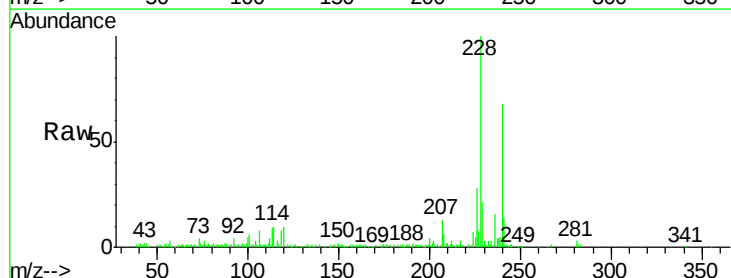
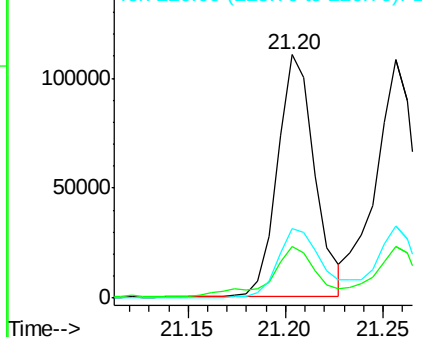
Acq: 14 Jul 2016 20:31

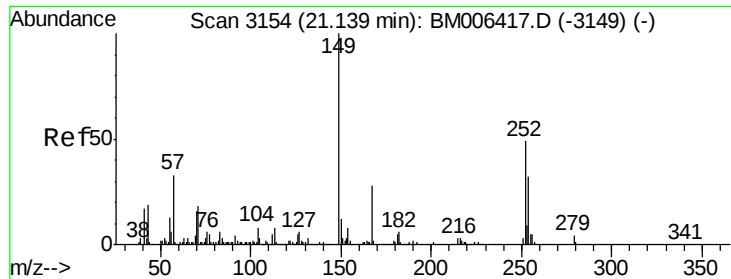
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 145469 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 21.1  | 15.6  | 23.4   |
| 226       | 28.4  | 21.4  | 32.2   |

Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





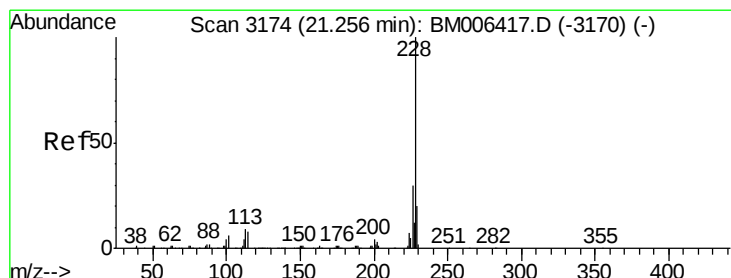
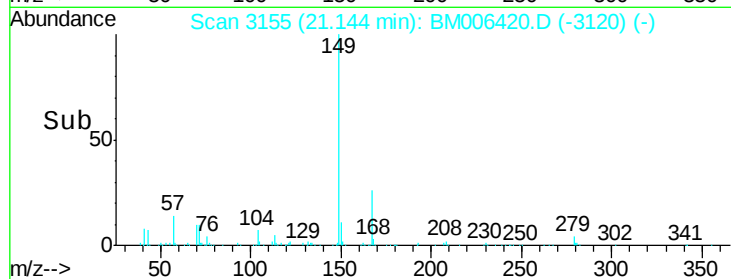
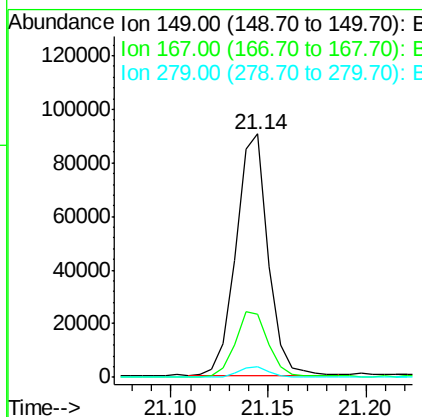
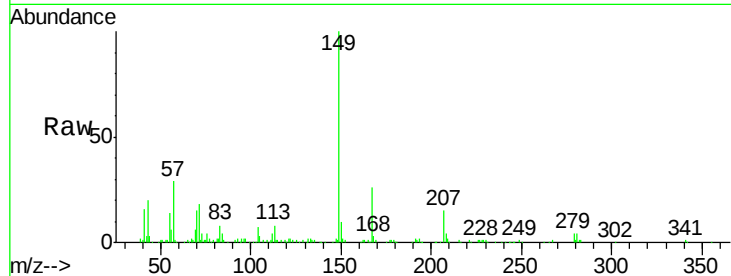
#81  
 Bis(2-ethylhexyl)phthalate  
 Concen: 3.36 ng/ul  
 RT: 21.14 min Scan# 3155  
 Delta R.T. 0.01 min  
 Lab File: BM006420.D  
 Acq: 14 Jul 2016 20:31

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BDJ62

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 26.2  | 22.2  | 33.2  |
| 279     | 4.1   | 3.1   | 4.7   |

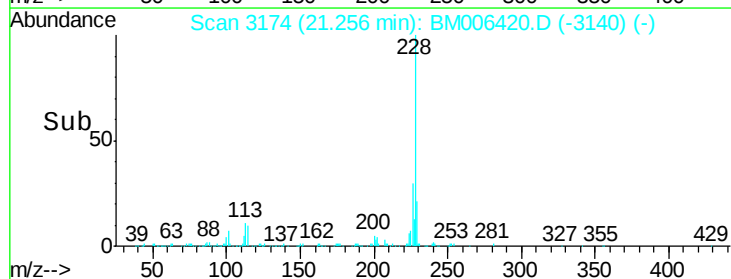
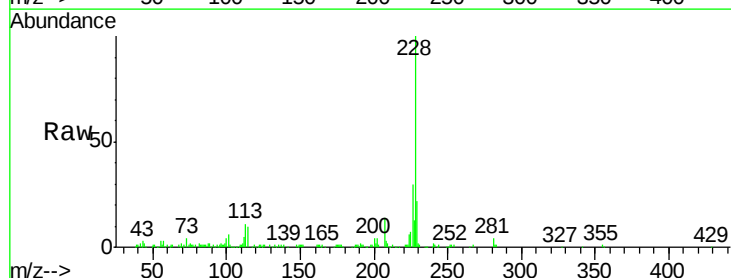
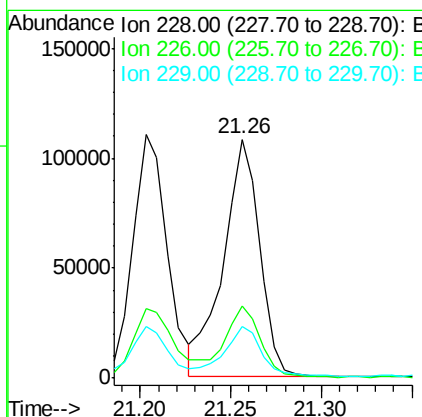
Manual Integrations

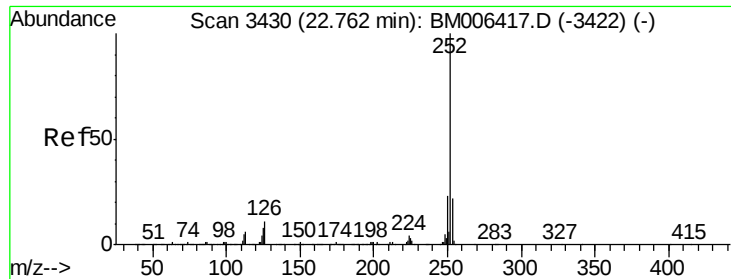
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 Sohil  
 7/15/2016 9:15:14 AM



#82  
 Chrysene  
 Concen: 3.15 ng/ul  
 RT: 21.26 min Scan# 3174  
 Delta R.T. 0.00 min  
 Lab File: BM006420.D  
 Acq: 14 Jul 2016 20:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.1  | 23.3  | 34.9  |
| 229     | 21.8  | 15.8  | 23.8  |





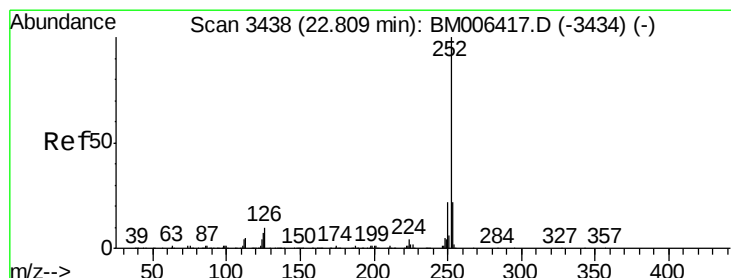
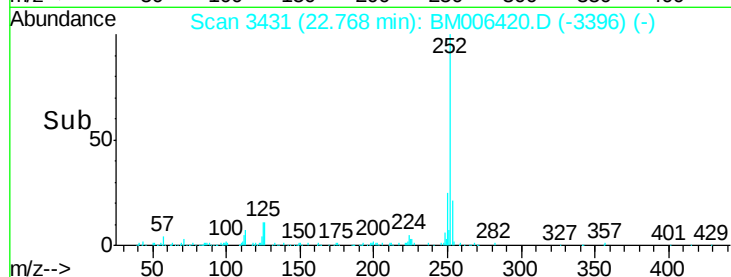
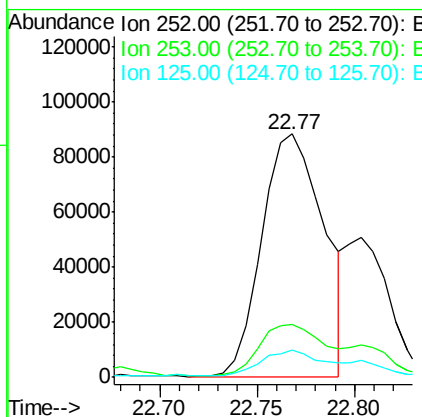
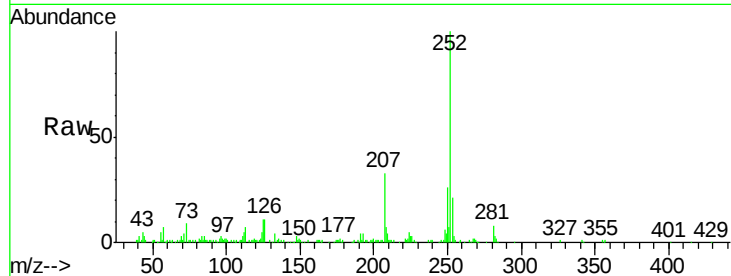
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Benzo(b)fluoranthene  
Concen: 3.65 ng/ul  
RT: 22.77 min Scan# 3431  
Delta R.T. 0.01 min  
Lab File: BM006420.D  
Acq: 14 Jul 2016 20:31

Instrument :  
BNA\_M  
ClientSampled :  
BDJ62

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.5  | 17.4  | 26.2  |
| 125     | 11.2  | 6.7   | 10.1  |

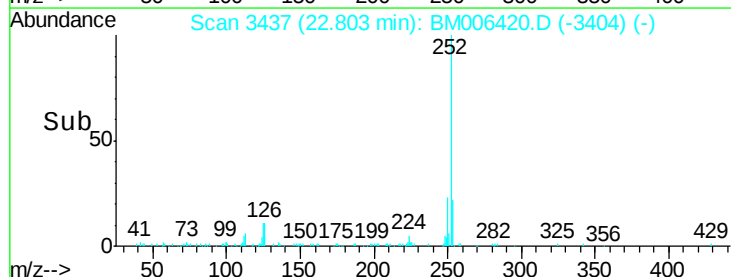
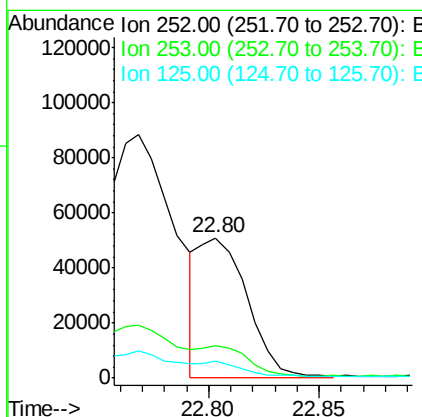
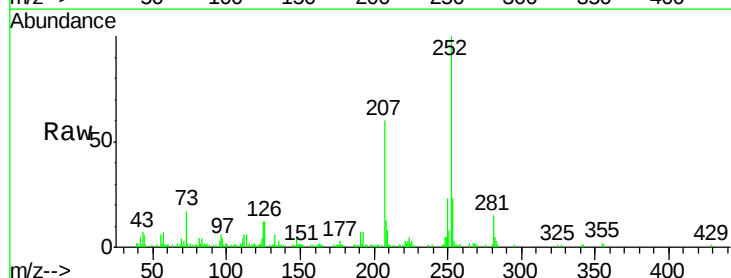
Manual Integrations

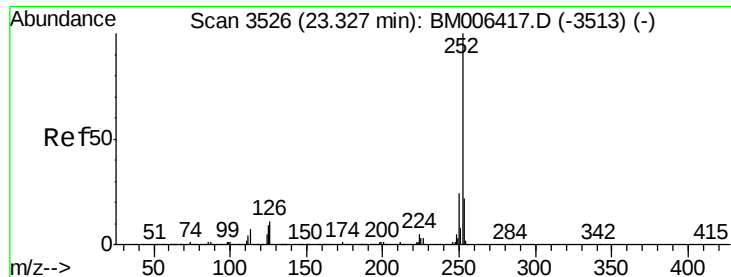
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#86  
Benzo(k)fluoranthene  
Concen: 1.55 ng/ul m  
RT: 22.80 min Scan# 3437  
Delta R.T. -0.01 min  
Lab File: BM006420.D  
Acq: 14 Jul 2016 20:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 17.3  | 25.9  |
| 125     | 12.3  | 7.0   | 10.4  |





#88

Benzo(a)pyrene

Concen: 3.26 ng/ul

RT: 23.33 min Scan# 3526

Delta R.T. 0.00 min

Lab File: BM006420.D

Acq: 14 Jul 2016 20:31

Instrument :

BNA\_M

ClientSampleId :

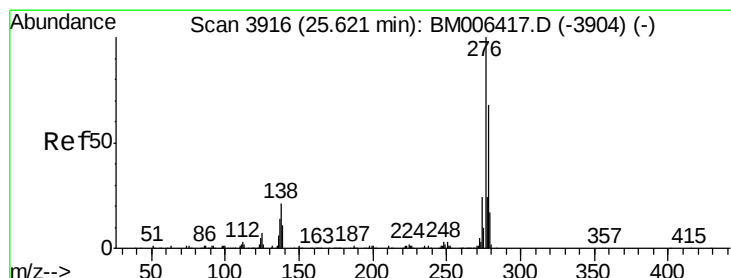
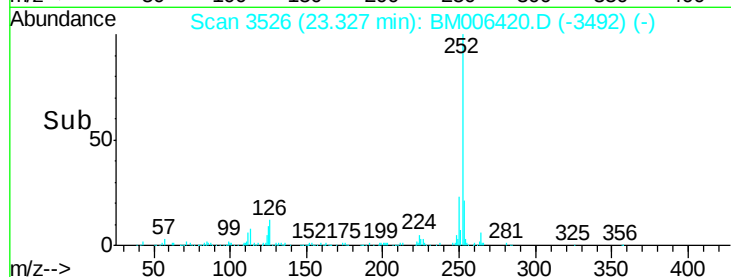
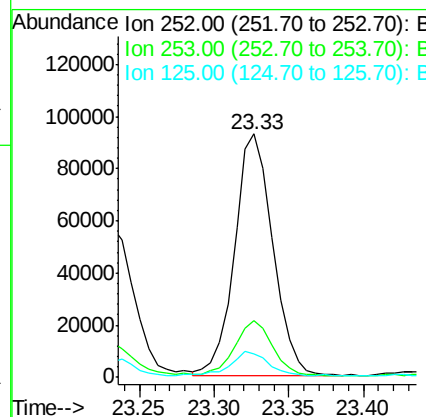
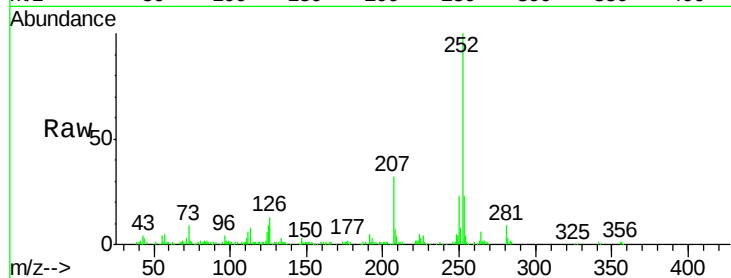
BDJ62

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 165525 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.2  | 17.4  | 26.2   |
| 125       | 9.5   | 7.6   | 11.4   |

Manual Integrations

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#89

Indeno(1,2,3-cd)pyrene

Concen: 1.72 ng/ul

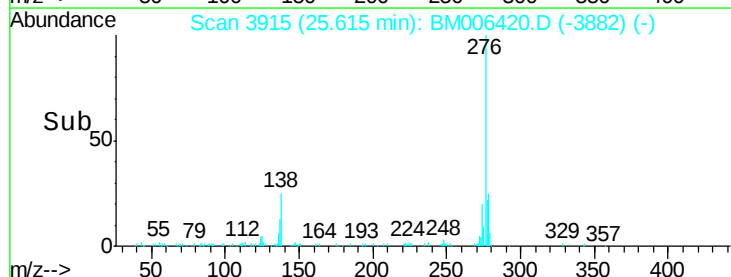
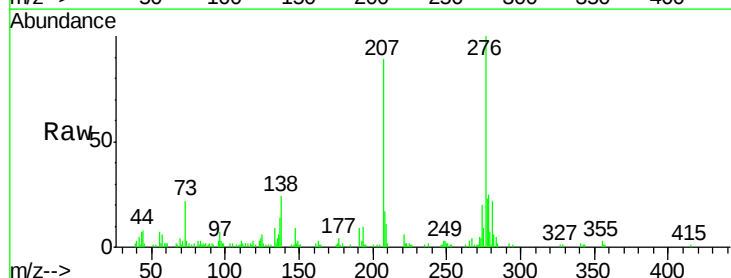
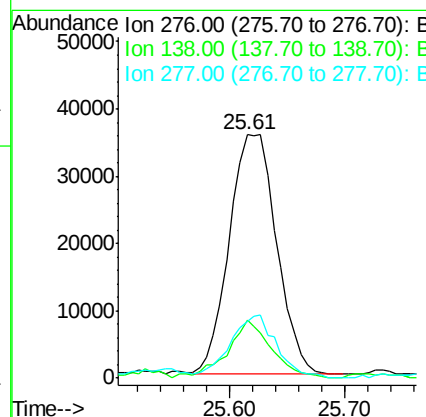
RT: 25.61 min Scan# 3915

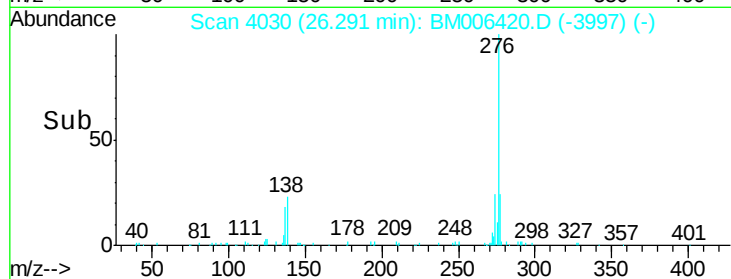
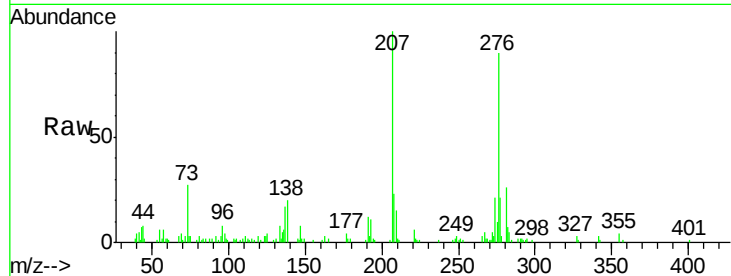
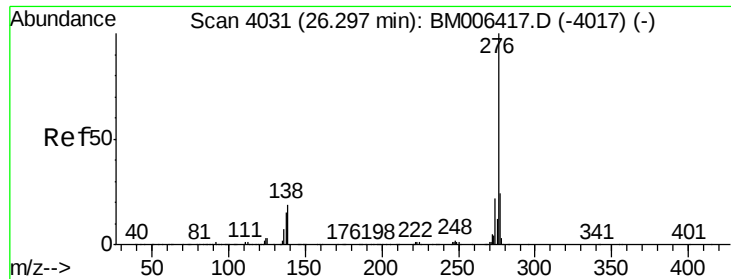
Delta R.T. -0.01 min

Lab File: BM006420.D

Acq: 14 Jul 2016 20:31

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 101920 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 23.8  | 17.8  | 26.6   |
| 277       | 23.2  | 20.1  | 30.1   |





#91  
 Benzo(a,h,i)perylene  
 Concen: 1.73 ng/ul  
 RT: 26.29 min Scan# 4030  
 Delta R.T. -0.01 min  
 Lab File: BM006420.D  
 Acq: 14 Jul 2016 20:31

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.8  | 15.0  | 22.4# |
| 277     | 23.6  | 19.0  | 28.4  |

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BDJ62

Manual Integrations

APPROVED  
 Sohil  
 7/15/2016 9:15:14 AM

