

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM081415\  
 Data File : BM002419.D  
 Acq On : 15 Aug 2015 11:43  
 Operator : UM/IZ  
 Sample : G3219-14  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9DA5

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 8/17/2015 2:45:18 PM

Quant Time: Aug 17 04:33:31 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM081415MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Aug 17 02:54:04 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.87  | 152  | 176515   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 11.74 | 136  | 798214   | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 15.45 | 164  | 413707   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 18.15 | 188  | 825137   | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 22.23 | 240  | 616262   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 24.90 | 264  | 511209   | 20.00 | ng/ul | 0.02     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 7) Acenaphthylene-d8        | 15.15 | 160  | 768121   | 18.16 | ng/ul | 0.00     |
| 10) Fluorene-d10            | 16.42 | 176  | 514919   | 17.33 | ng/ul | 0.00     |
| 14) Anthracene-d10          | 18.25 | 188  | 684504   | 17.20 | ng/ul | 0.00     |
| 18) Pyrene-d10              | 20.47 | 212  | 623502   | 22.82 | ng/ul | 0.00     |
| 25) Benzo(a)pyrene-d12      | 24.73 | 264  | 390111   | 14.53 | ng/ul | 0.02     |

| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 11.79 | 128  | 75990    | 1.87 | ng/ul  | 99     |
| 4) 2-Methylnaphthalene     | 13.33 | 142  | 57259    | 1.88 | ng/ul  | 98     |
| 13) Phenanthrene           | 18.20 | 178  | 111119   | 2.33 | ng/ul  | 99     |
| 16) Fluoranthene           | 20.14 | 202  | 355344   | 6.59 | ng/ul  | 99     |
| 19) Pyrene                 | 20.50 | 202  | 273033   | 7.56 | ng/ul  | 99     |
| 20) Benzo(a)anthracene     | 22.22 | 228  | 181038   | 4.91 | ng/ul# | 95     |
| 21) Chrysene               | 22.27 | 228  | 176696   | 5.13 | ng/ul# | 94     |
| 23) Benzo(b)fluoranthene   | 24.08 | 252  | 204528   | 6.62 | ng/ul# | 87     |
| 24) Benzo(k)fluoranthene   | 24.12 | 252  | 54441m   | 1.86 | ng/ul  |        |
| 26) Benzo(a)pyrene         | 24.79 | 252  | 116557   | 3.95 | ng/ul# | 87     |
| 27) Indeno(1,2,3-cd)pyrene | 27.71 | 276  | 83752    | 2.47 | ng/ul  | 99     |
| 29) Benzo(g,h,i)perylene   | 28.59 | 276  | 78334    | 2.77 | ng/ul# | 92     |

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

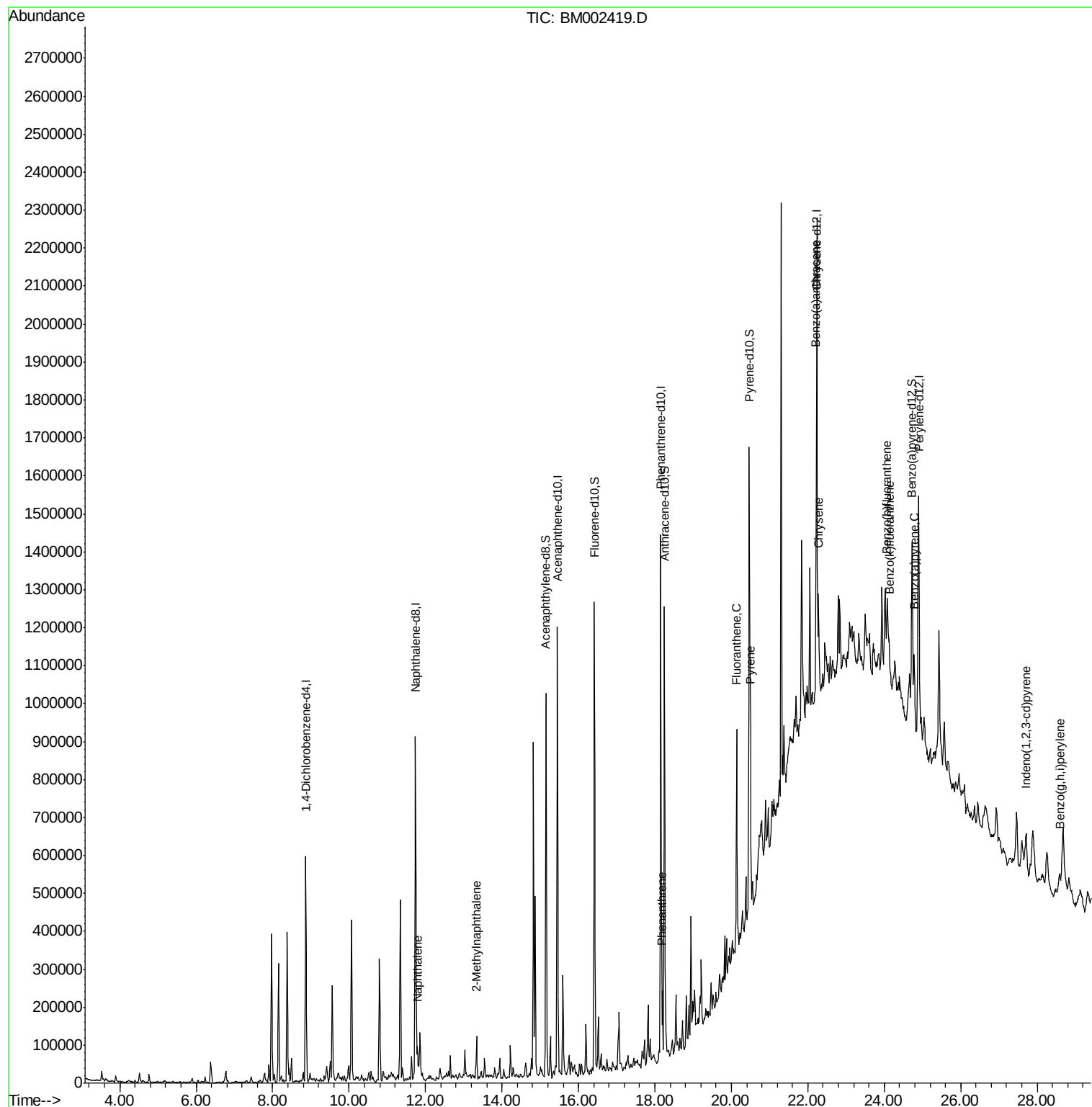
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM081415\  
Data File : BM002419.D  
Acq On : 15 Aug 2015 11:43  
Operator : UM/IZ  
Sample : G3219-14  
Misc :  
ALS Vial : 26 Sample Multiplier: 1

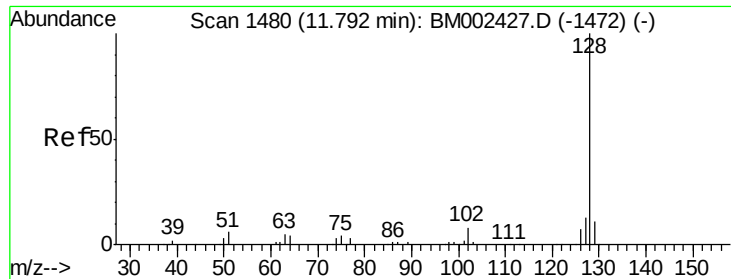
Instrument :  
BNA\_M  
ClientSampleId :  
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Quant Time: Aug 17 04:33:31 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM081415MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Aug 17 02:54:04 2015  
Response via : Initial Calibration





#3

Naphthalene

Concen: 1.87 ng/ul

RT: 11.79 min Scan# 1479

Delta R.T. 0.00 min

Lab File: BM002419.D

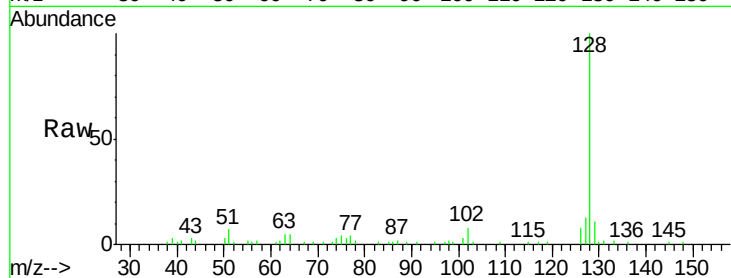
Acq: 15 Aug 2015 11:43

Instrument :

BNA\_M

ClientSampleId :

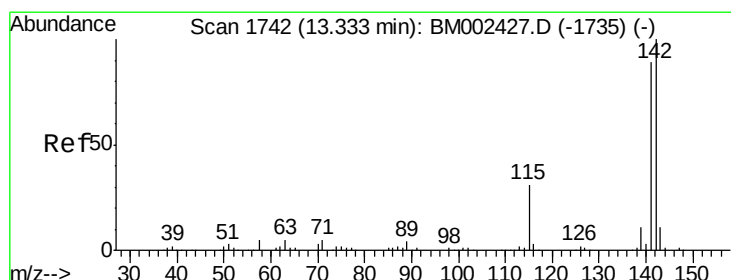
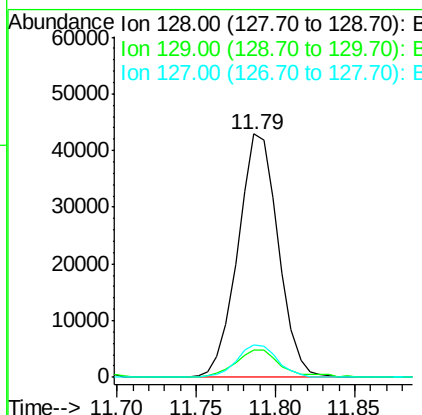
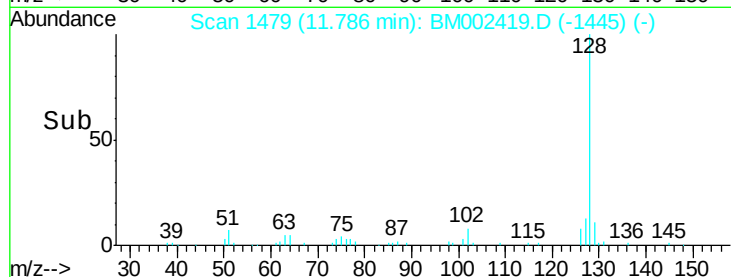
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.1  | 8.6   | 12.8  |
| 127     | 13.2  | 10.4  | 15.6  |

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#4

2-Methylnaphthalene

Concen: 1.88 ng/ul

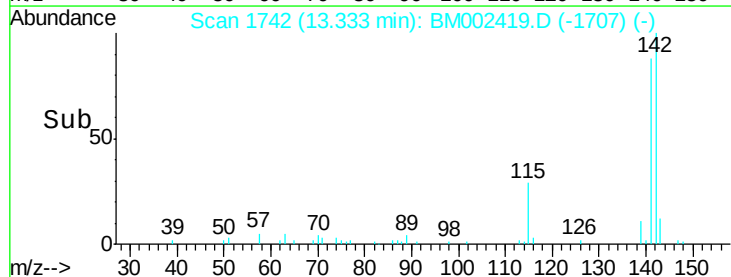
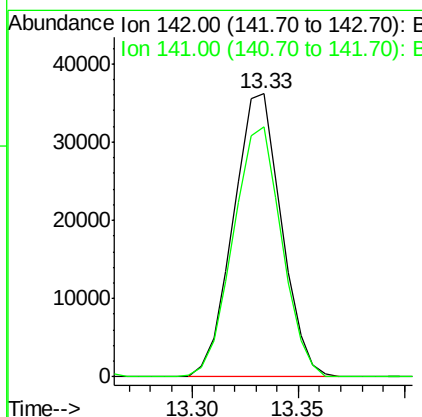
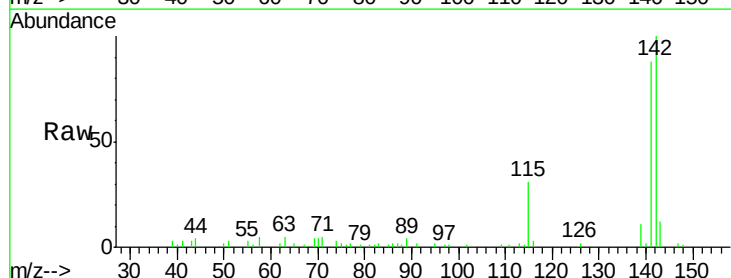
RT: 13.33 min Scan# 1742

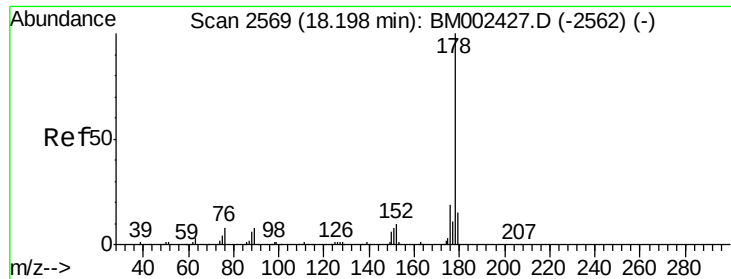
Delta R.T. 0.01 min

Lab File: BM002419.D

Acq: 15 Aug 2015 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.3  | 72.2  | 108.2 |





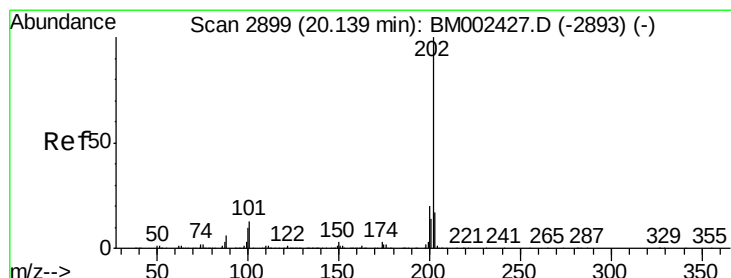
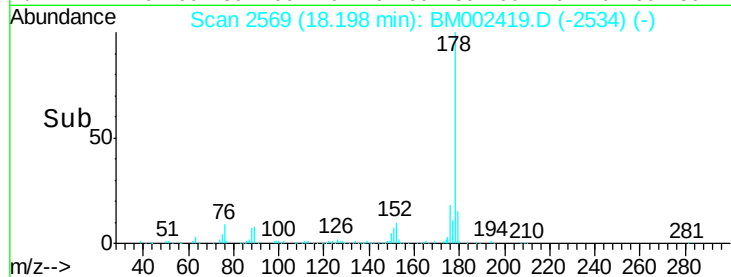
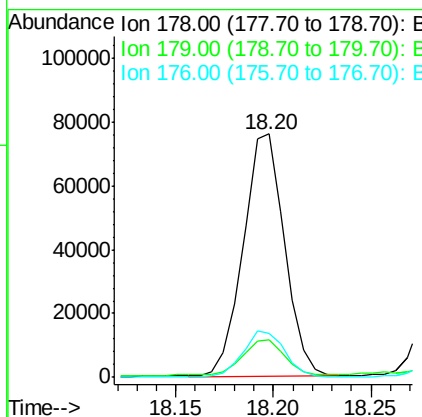
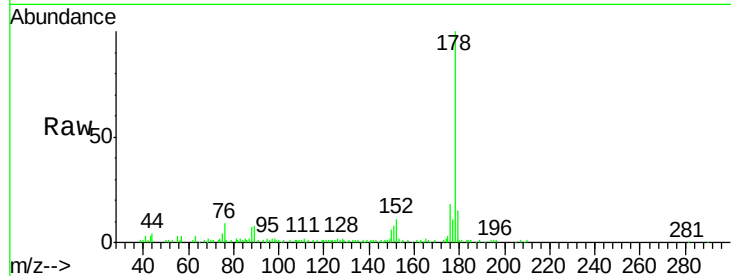
#13  
Phenanthrene  
Concen: 2.33 ng/ul  
RT: 18.20 min Scan# 2569  
Delta R.T. 0.01 min  
Lab File: BM002419.D  
Acq: 15 Aug 2015 11:43

Instrument :  
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ClientSampleId :  
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| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 111119 |       |       |
| 179     | 15.4  | 12.4   | 18.6  |       |
| 176     | 18.1  | 15.1   | 22.7  |       |

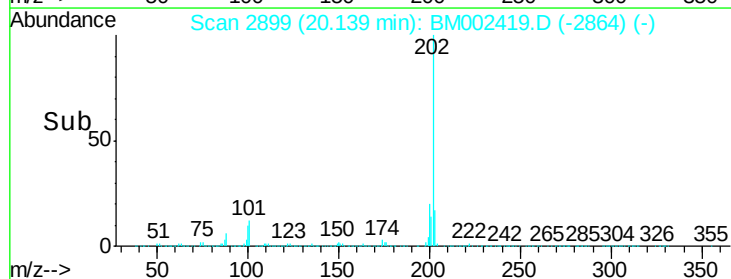
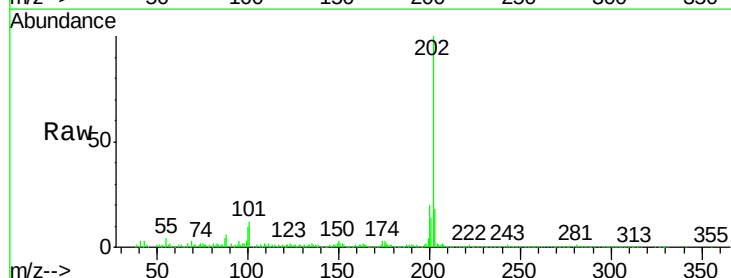
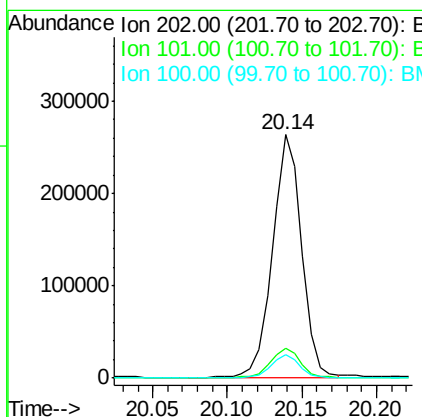
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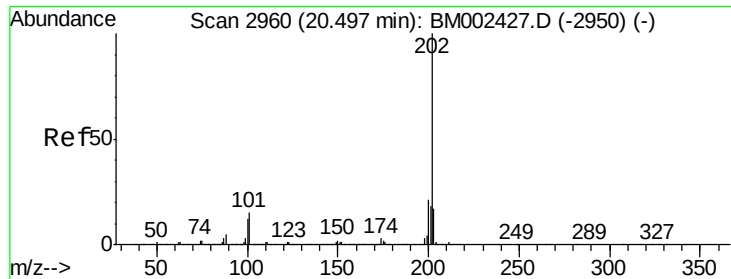
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#16  
Fluoranthene  
Concen: 6.59 ng/ul  
RT: 20.14 min Scan# 2899  
Delta R.T. 0.01 min  
Lab File: BM002419.D  
Acq: 15 Aug 2015 11:43

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 355344 |       |       |
| 101     | 12.5  | 9.7    | 14.5  |       |
| 100     | 9.8   | 7.4    | 11.2  |       |





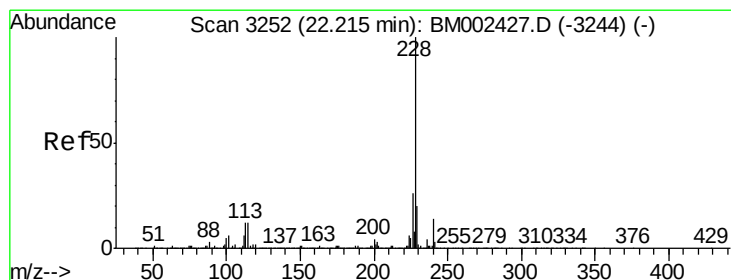
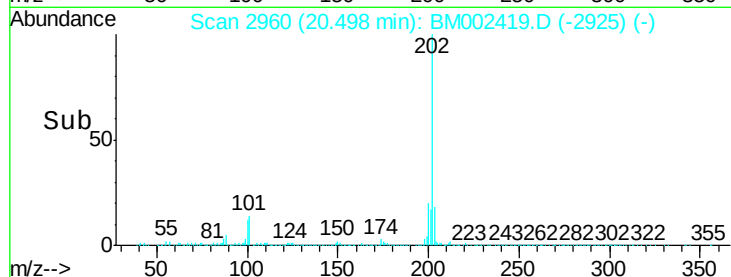
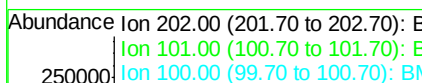
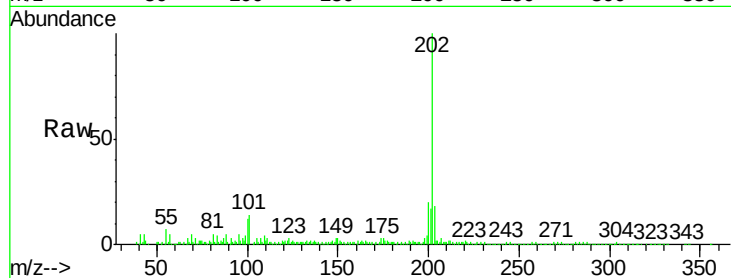
#19  
 Pyrene  
 Concen: 7.56 ng/ul  
 RT: 20.50 min Scan# 2960  
 Delta R.T. 0.01 min  
 Lab File: BM002419.D  
 Acq: 15 Aug 2015 11:43

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9DA5

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 273033 |       |       |
| 101     | 14.2  | 12.0   | 18.0  |       |
| 100     | 11.8  | 9.7    | 14.5  |       |

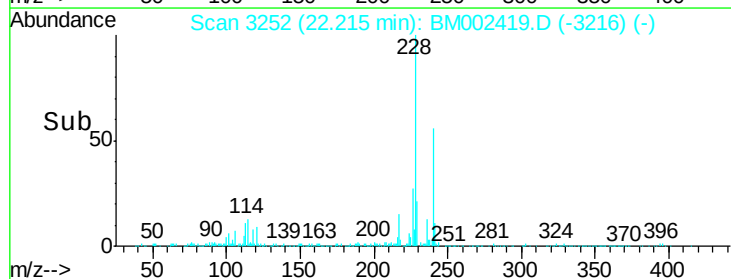
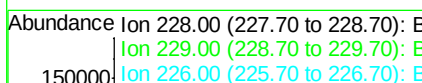
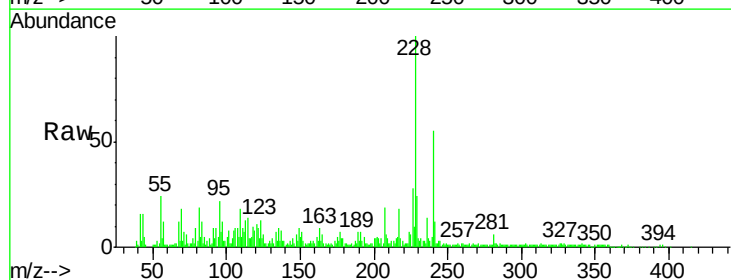
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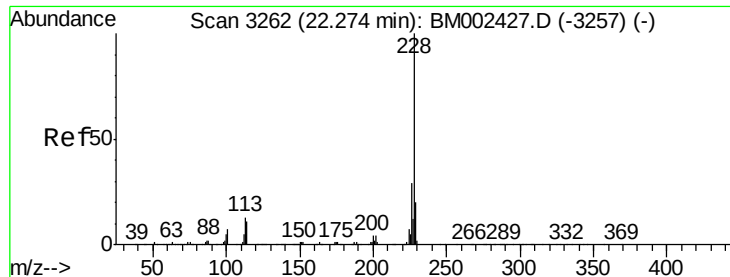
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#20  
 Benzo(a)anthracene  
 Concen: 4.91 ng/ul  
 RT: 22.22 min Scan# 3252  
 Delta R.T. 0.01 min  
 Lab File: BM002419.D  
 Acq: 15 Aug 2015 11:43

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 228     | 100   | 181038 |       |       |
| 229     | 23.7  | 15.8   | 23.6# |       |
| 226     | 27.6  | 21.1   | 31.7  |       |





#21

Chrysene

Concen: 5.13 ng/ul

RT: 22.27 min Scan# 3262

Delta R.T. 0.01 min

Lab File: BM002419.D

Acq: 15 Aug 2015 11:43

Instrument :

BNA\_M

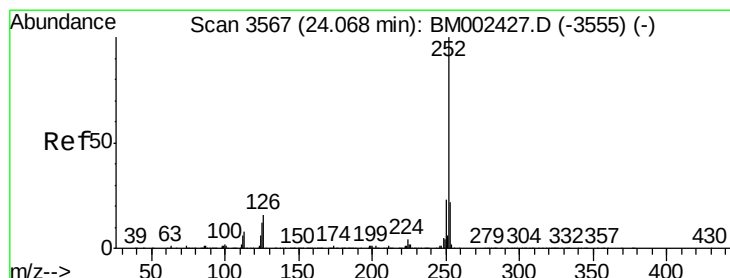
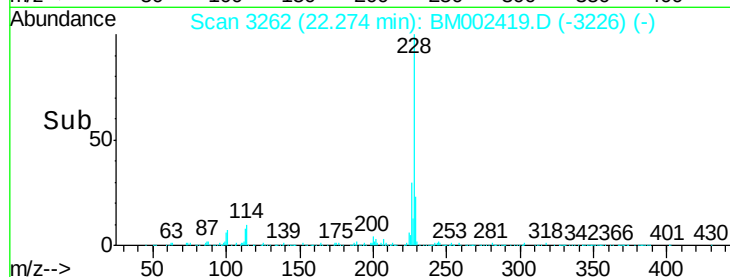
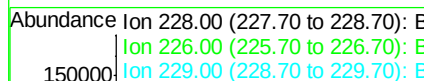
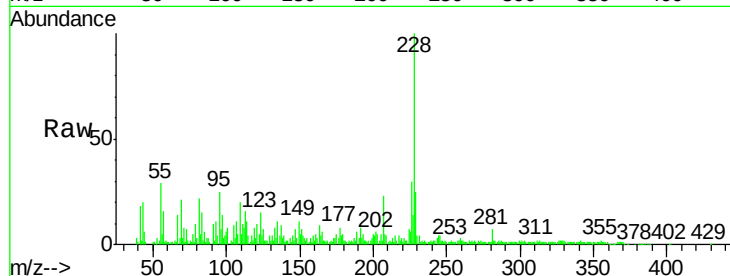
ClientSampleId :

D9DA5

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 176696 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.5  | 23.4  | 35.2   |
| 229       | 25.3  | 15.7  | 23.5#  |

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#23

Benzo(b)fluoranthene

Concen: 6.62 ng/ul

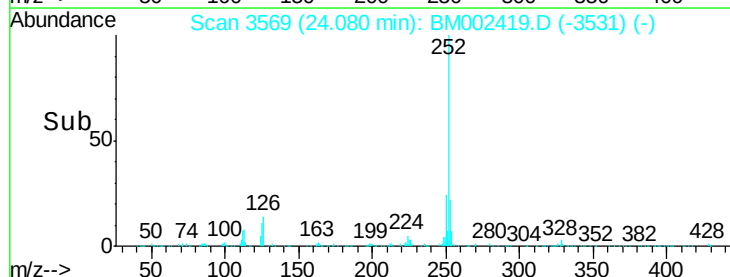
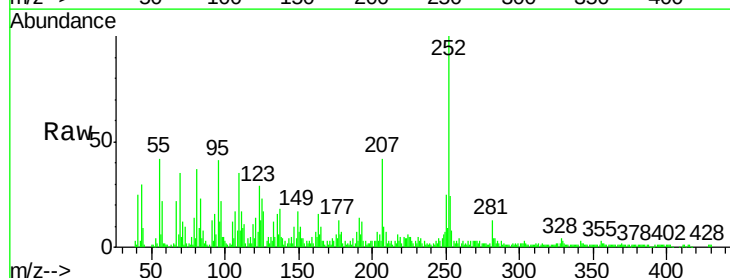
RT: 24.08 min Scan# 3569

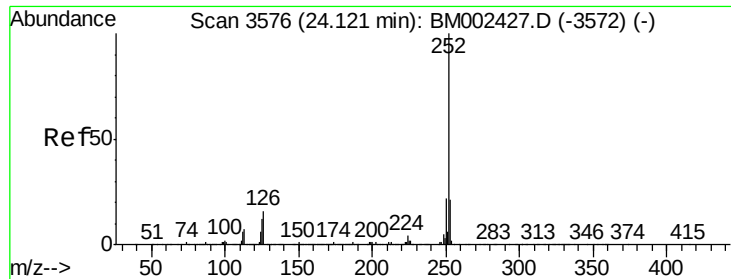
Delta R.T. 0.02 min

Lab File: BM002419.D

Acq: 15 Aug 2015 11:43

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 204528 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.6  | 17.4  | 26.0   |
| 125       | 23.5  | 10.0  | 15.0#  |





#24

Benzo(k)fluoranthene

Concen: 1.86 ng/ul m

RT: 24.12 min Scan# 3576

Delta R.T. 0.01 min

Lab File: BM002419.D

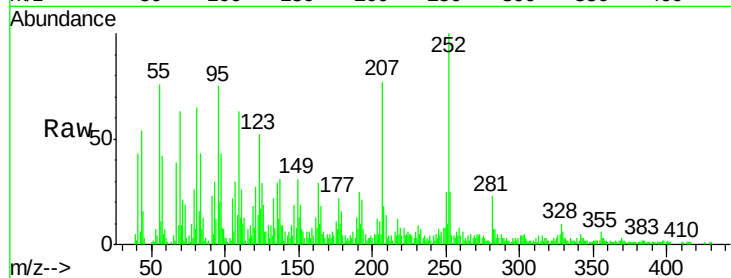
Acq: 15 Aug 2015 11:43

Instrument :

BNA\_M

ClientSampleId :

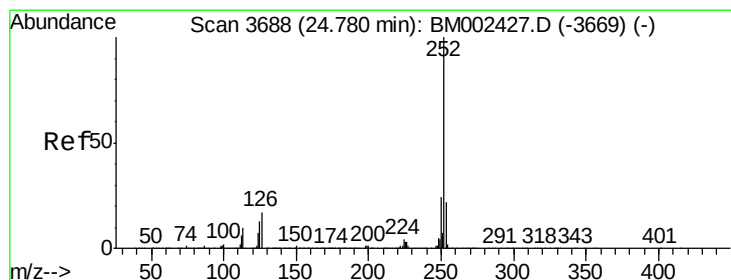
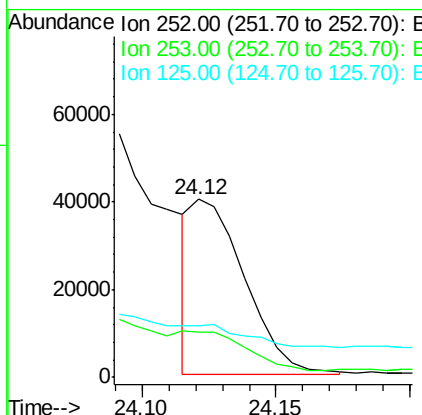
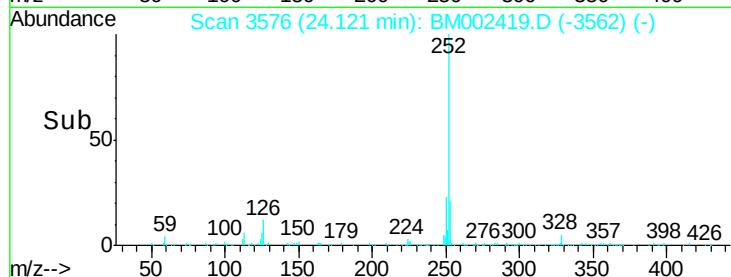
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.3  | 17.8  | 26.6  |
| 125     | 29.2  | 9.8   | 14.8# |

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#26

Benzo(a)pyrene

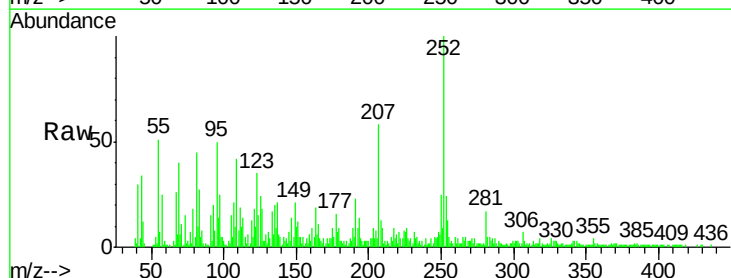
Concen: 3.95 ng/ul

RT: 24.79 min Scan# 3689

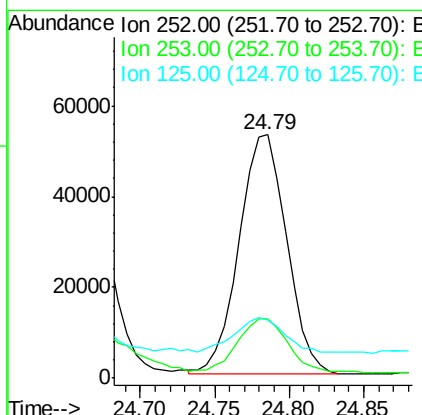
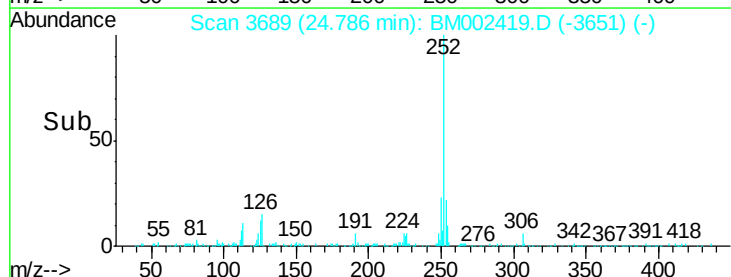
Delta R.T. 0.02 min

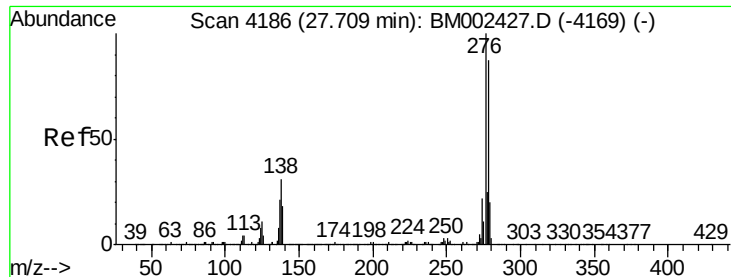
Lab File: BM002419.D

Acq: 15 Aug 2015 11:43



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.3  | 17.6  | 26.4  |
| 125     | 24.0  | 10.7  | 16.1# |





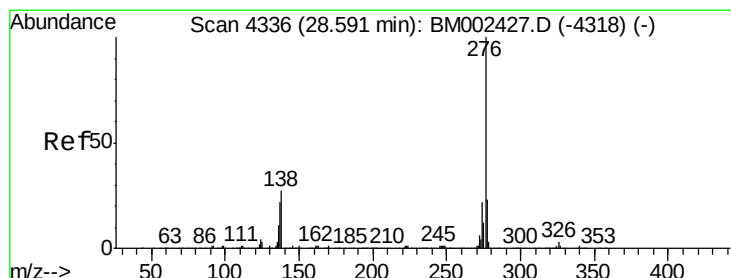
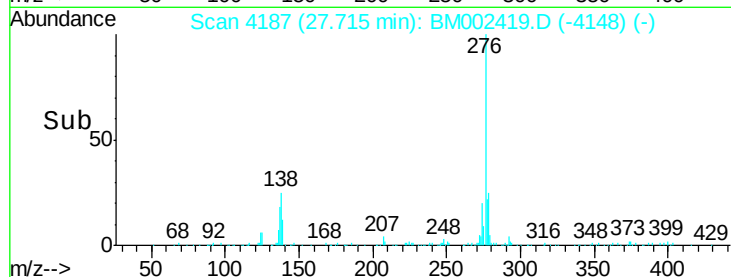
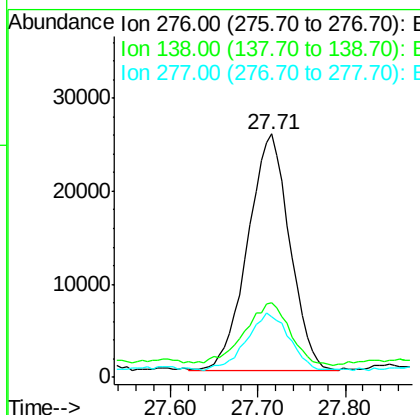
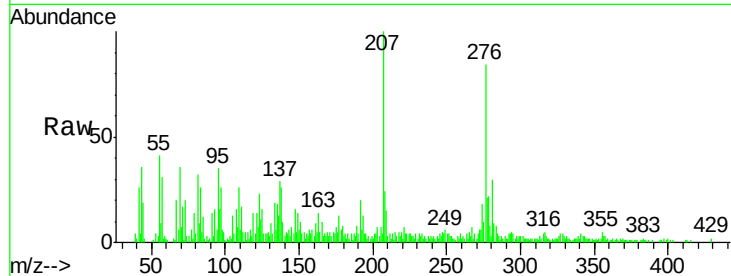
#27  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.47 ng/ul  
 RT: 27.71 min Scan# 4187  
 Delta R.T. 0.03 min  
 Lab File: BM002419.D  
 Acq: 15 Aug 2015 11:43

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9DA5

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 30.5  | 25.3  | 37.9  |
| 277     | 24.8  | 20.2  | 30.2  |

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#29  
 Benzo(g,h,i)perylene  
 Concen: 2.77 ng/ul  
 RT: 28.59 min Scan# 4336  
 Delta R.T. 0.03 min  
 Lab File: BM002419.D  
 Acq: 15 Aug 2015 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 32.5  | 21.0  | 31.6# |
| 277     | 25.3  | 19.2  | 28.8  |

