

Data Path : Z:\HPCHEM1\BNA M\DATA\BM080415\  
 Data File : BM002227.D  
 Acq On : 05 Aug 2015 01:44  
 Operator : TP/UM  
 Sample : G3095-23RE  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C01P0RE

Manual Integrations  
 APPROVED

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 8/7/2015 4:43:14 PM

Quant Time: Aug 05 05:58:53 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM080415.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Aug 05 02:56:04 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.52  | 152  | 144997   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.32 | 136  | 558959   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.20 | 164  | 303228   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 16.96 | 188  | 613232   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.17 | 240  | 729209   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.36 | 264  | 781524   | 20.00 | ng/ul | 0.02     |

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| System Monitoring Compounds    |       |     |        |       |       |      |
| 3) 1,4-Dioxane-d8              | 2.96  | 96  | 4105   | 1.61  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.72  | 99  | 97867  | 9.09  | ng/ul | 0.01 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.86  | 67  | 53797  | 9.56  | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.06  | 132 | 85899  | 9.33  | ng/ul | 0.01 |
| 13) 4-Methylphenol-d8          | 8.26  | 113 | 70191  | 7.85  | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.69  | 128 | 39723  | 9.80  | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.41  | 143 | 46837  | 9.80  | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.96  | 165 | 83234  | 9.10  | ng/ul | 0.01 |
| 29) 4-Chloroaniline-d4         | 10.47 | 131 | 50845  | 5.02  | ng/ul | 0.01 |
| 44) Dimethylphthalate-d6       | 13.62 | 166 | 225228 | 10.21 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 13.89 | 160 | 269030 | 9.65  | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.46 | 143 | 21210  | 7.42  | ng/ul | 0.02 |
| 58) Fluorene-d10               | 15.20 | 176 | 183164 | 9.40  | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.36 | 200 | 7245   | 2.05  | ng/ul | 0.01 |
| 71) Anthracene-d10             | 17.06 | 188 | 255575 | 9.36  | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.37 | 212 | 273613 | 7.84  | ng/ul | 0.01 |
| 90) Benzo(a)pyrene-d12         | 23.22 | 264 | 318292 | 8.39  | ng/ul | 0.02 |

|                                |       |     |        |       |        |        |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| Target Compounds               |       |     |        |       |        | Ovalue |
| 45) Dimethylphthalate          | 13.66 | 163 | 84885  | 3.86  | ng/ul  | 99     |
| 70) Phenanthrene               | 17.00 | 178 | 165960 | 5.27  | ng/ul  | 98     |
| 72) Anthracene                 | 17.09 | 178 | 51371  | 1.60  | ng/ul  | 98     |
| 77) Fluoranthene               | 19.03 | 202 | 349770 | 10.15 | ng/ul  | 99     |
| 80) Pyrene                     | 19.40 | 202 | 366010 | 8.17  | ng/ul  | 99     |
| 83) Benzo(a)anthracene         | 21.15 | 228 | 174630 | 4.27  | ng/ul  | 97     |
| 84) Bis(2-ethylhexyl)phthalate | 21.07 | 149 | 242121 | 10.53 | ng/ul  | 99     |
| 85) Chrysene                   | 21.20 | 228 | 185821 | 4.94  | ng/ul  | 95     |
| 88) Benzo(b)fluoranthene       | 22.70 | 252 | 276348 | 6.28  | ng/ul# | 94     |
| 89) Benzo(k)fluoranthene       | 22.74 | 252 | 65767m | 1.54  | ng/ul  |        |
| 91) Benzo(a)pyrene             | 23.26 | 252 | 155522 | 3.70  | ng/ul# | 95     |
| 92) Indeno(1,2,3-cd)pyrene     | 25.55 | 276 | 114829 | 2.42  | ng/ul  | 97     |
| 94) Benzo(g,h,i)perylene       | 26.23 | 276 | 109828 | 2.78  | ng/ul  | 99     |

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

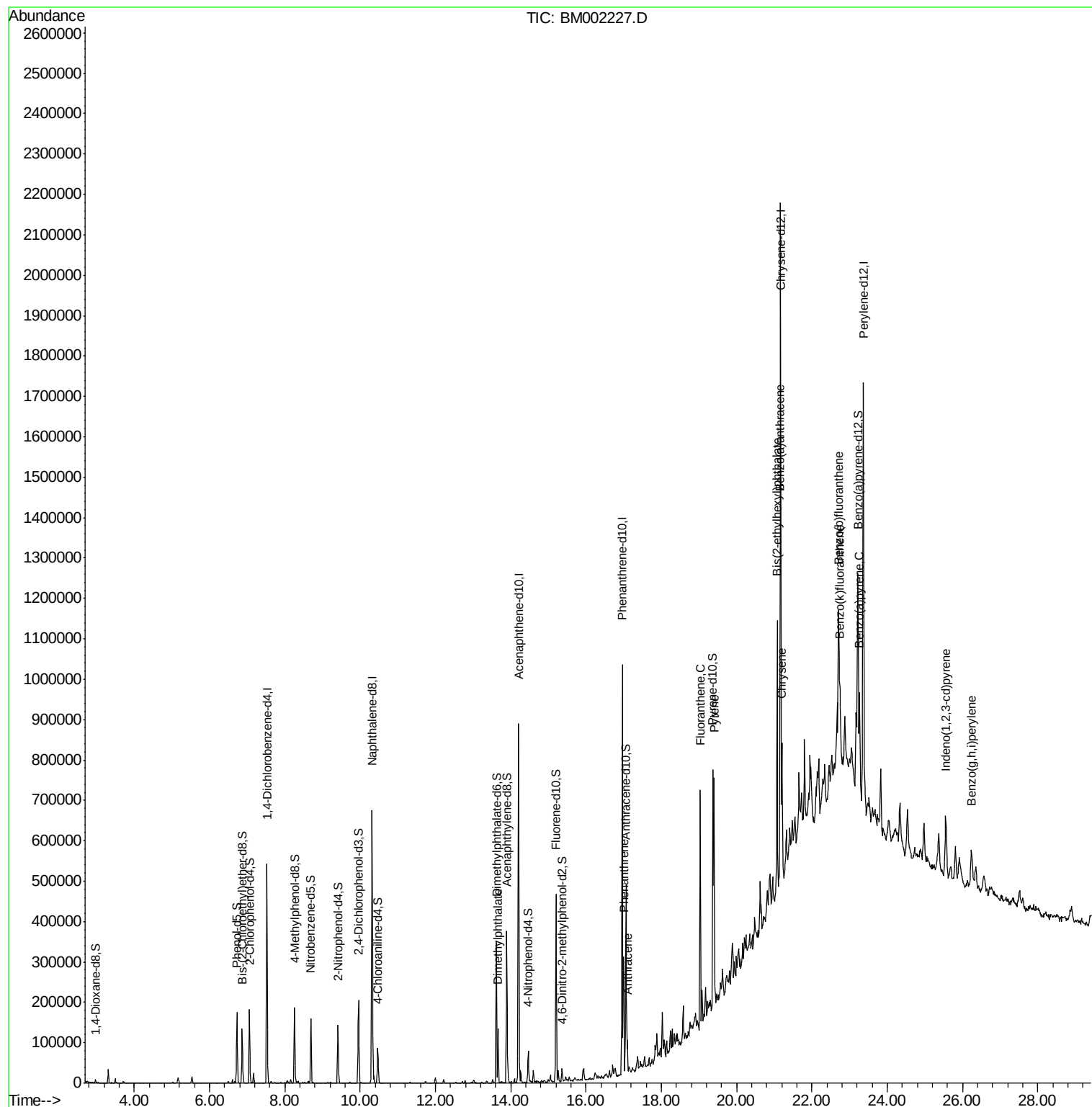
Data Path : Z:\HPCHEM1\BNA M\DATA\BM080415\  
Data File : BM002227.D  
Acq On : 05 Aug 2015 01:44  
Operator : TP/UM  
Sample : G3095-23RE  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

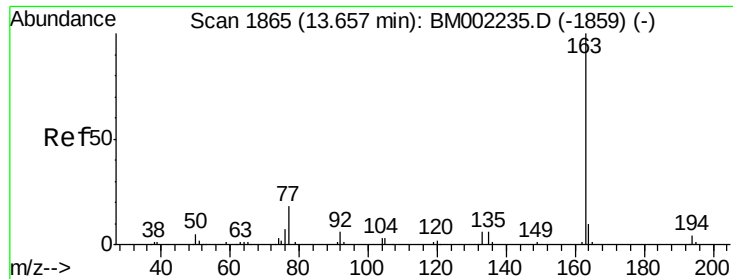
Instrument :  
BNA\_M  
ClientSampleId :  
C01P0RE

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Quant Time: Aug 05 05:58:53 2015  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM080415.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Aug 05 02:56:04 2015  
Response via : Initial Calibration





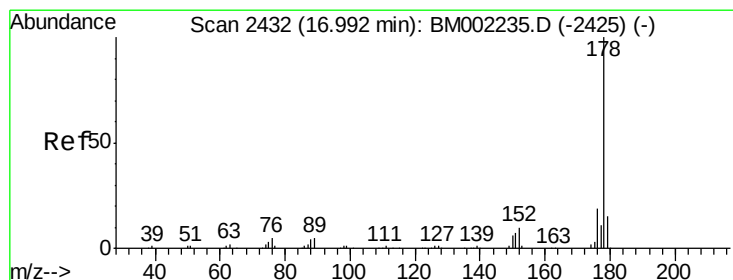
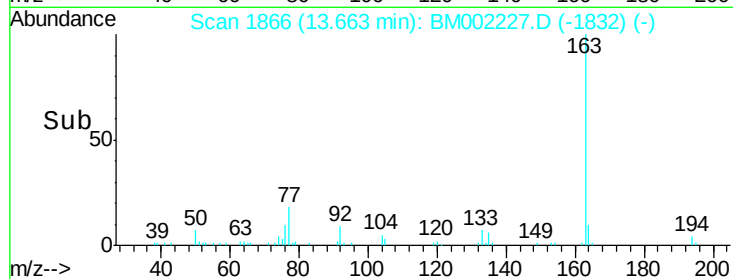
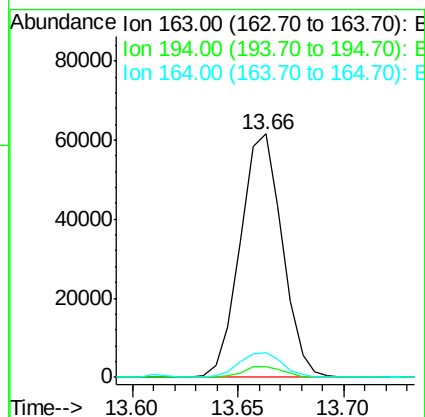
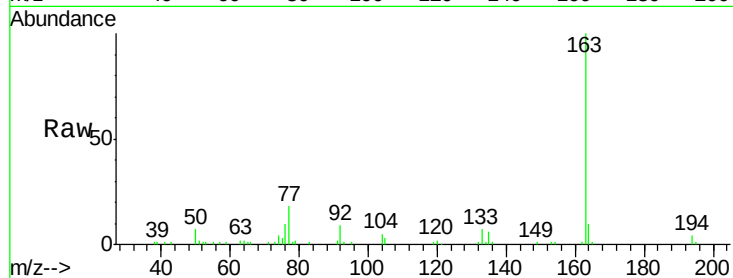
#45  
Dimethylphthalate  
Concen: 3.86 ng/ul  
RT: 13.66 min Scan# 1866  
Delta R.T. 0.00 min  
Lab File: BM002227.D  
Acq: 05 Aug 2015 01:44

Instrument :  
BNA\_M  
ClientSampleId :  
C01P0RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.4   | 3.4   | 5.2   |
| 164     | 10.3  | 7.9   | 11.9  |

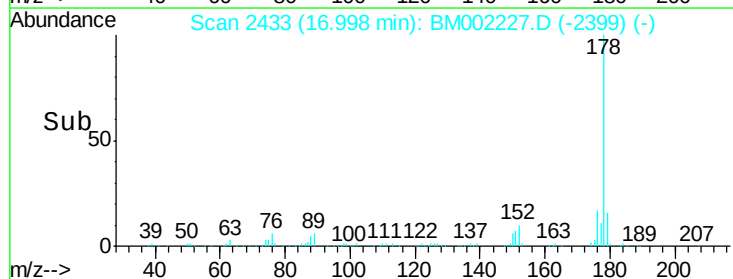
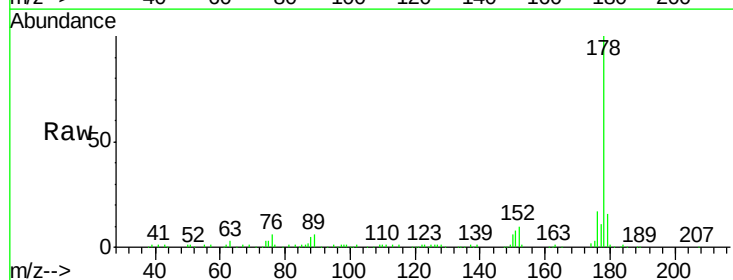
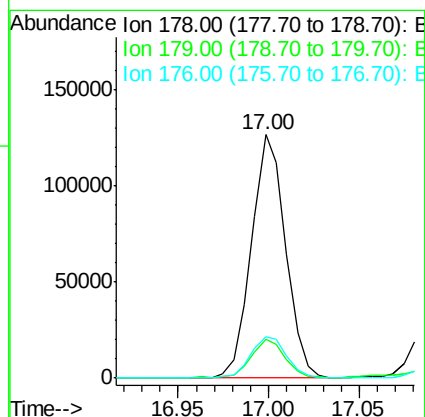
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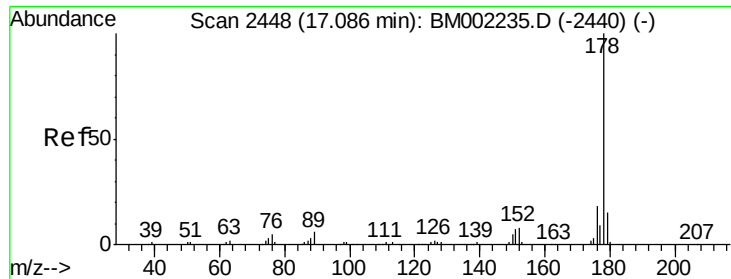
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#70  
Phenanthrene  
Concen: 5.27 ng/ul  
RT: 17.00 min Scan# 2433  
Delta R.T. 0.00 min  
Lab File: BM002227.D  
Acq: 05 Aug 2015 01:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.7  | 12.2  | 18.4  |
| 176     | 17.1  | 14.6  | 21.8  |





#72

Anthracene

Concen: 1.60 ng/ul

RT: 17.09 min Scan# 2449

Delta R.T. 0.01 min

Lab File: BM002227.D

Acq: 05 Aug 2015 01:44

Instrument :

BNA\_M

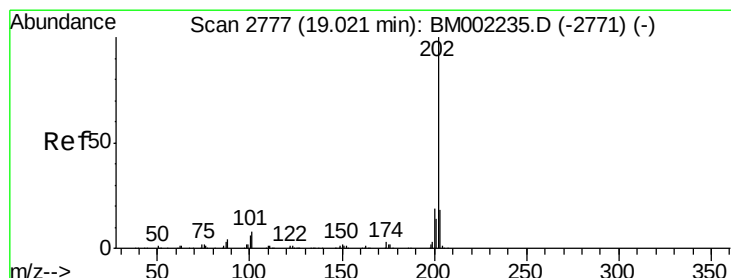
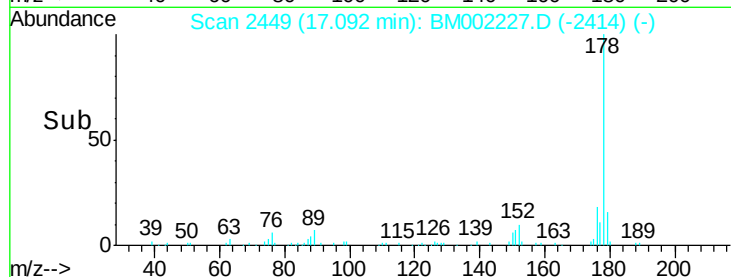
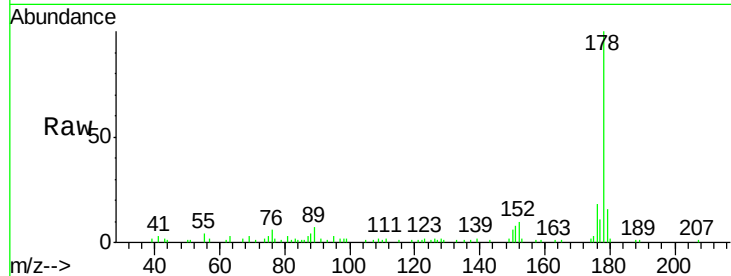
ClientSampleId :

C01P0RE

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 51371 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 16.4  | 12.2  | 18.2  |
| 176       | 18.1  | 13.8  | 20.6  |

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#77

Fluoranthene

Concen: 10.15 ng/ul

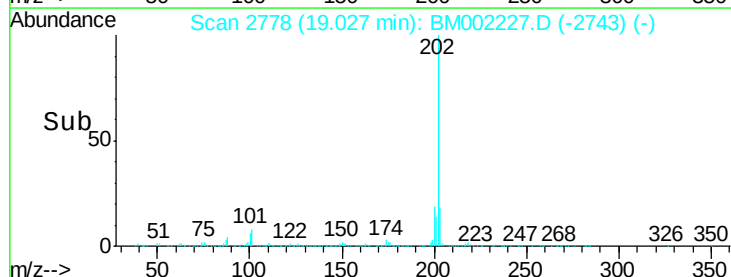
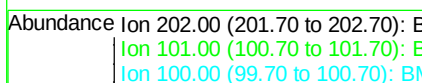
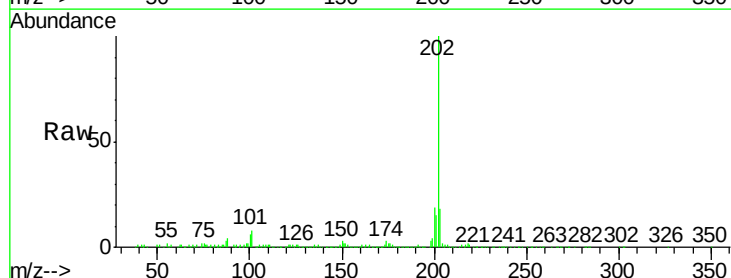
RT: 19.03 min Scan# 2778

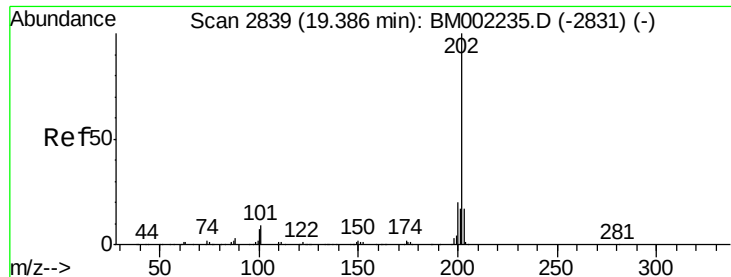
Delta R.T. 0.01 min

Lab File: BM002227.D

Acq: 05 Aug 2015 01:44

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 349770 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 7.8   | 6.2   | 9.2    |
| 100       | 6.3   | 4.8   | 7.2    |





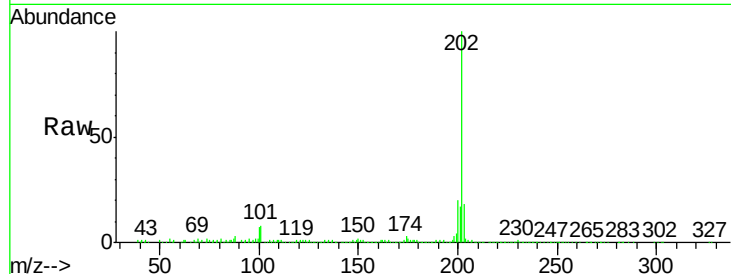
#80  
Pvrene  
Concen: 8.17 ng/ul  
RT: 19.40 min Scan# 2841  
Delta R.T. 0.01 min  
Lab File: BM002227.D  
Acq: 05 Aug 2015 01:44

Instrument :  
BNA\_M  
ClientSampleId :  
C01P0RE

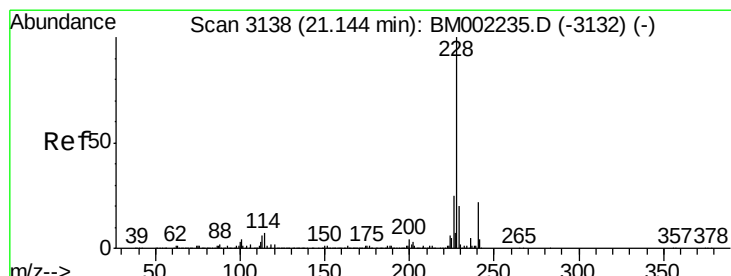
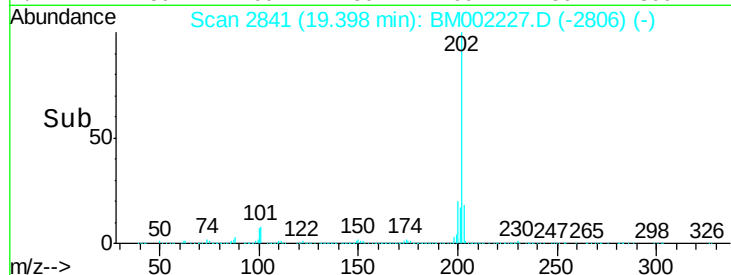
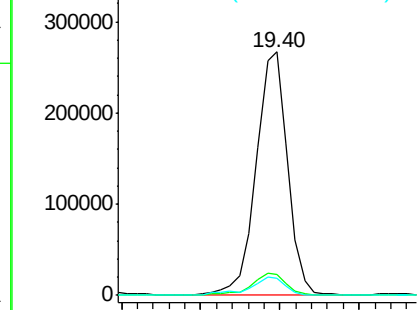
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 8.4   | 7.0        | 10.6  |
| 100     | 6.9   | 5.8        | 8.8   |

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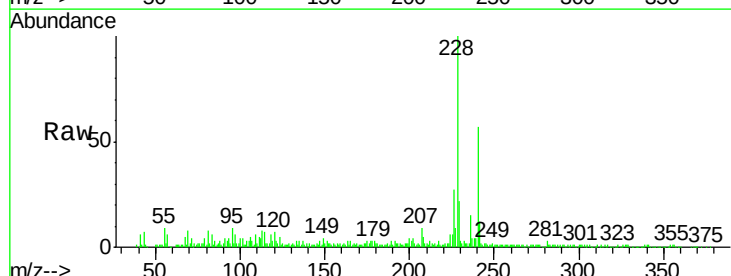


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B

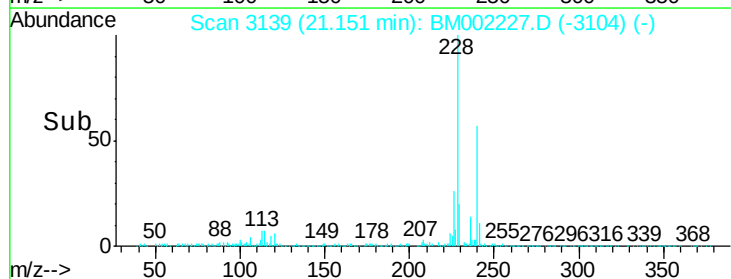
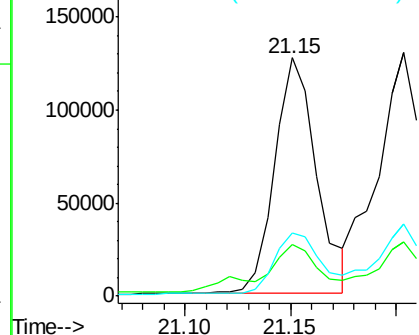


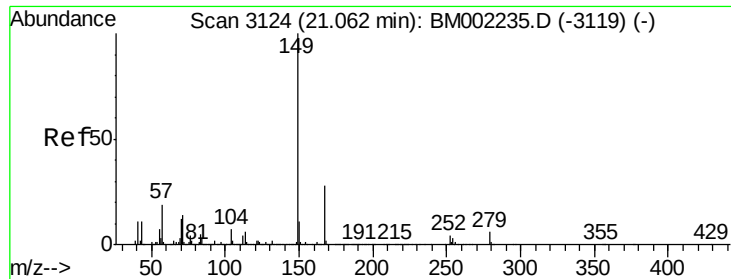
#83  
Benzo(a)anthracene  
Concen: 4.27 ng/ul  
RT: 21.15 min Scan# 3139  
Delta R.T. 0.01 min  
Lab File: BM002227.D  
Acq: 05 Aug 2015 01:44

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 21.6  | 15.9       | 23.9  |
| 226     | 26.6  | 20.6       | 31.0  |



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





#84

Bis(2-ethylhexyl)phthalate

Concen: 10.53 ng/ul

RT: 21.07 min Scan# 3126

Delta R.T. 0.01 min

Lab File: BM002227.D

Acq: 05 Aug 2015 01:44

Instrument :

BNA\_M

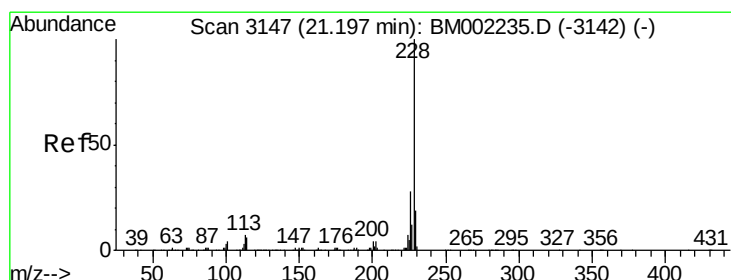
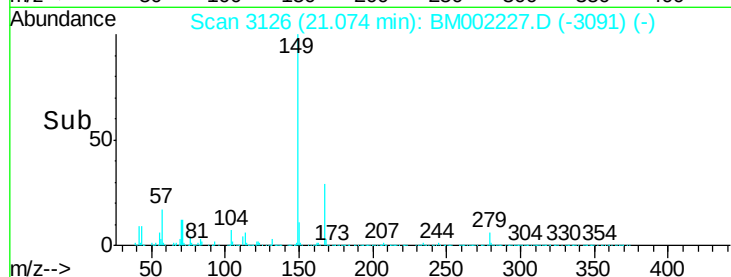
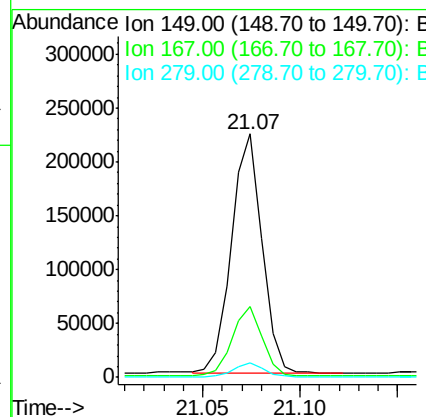
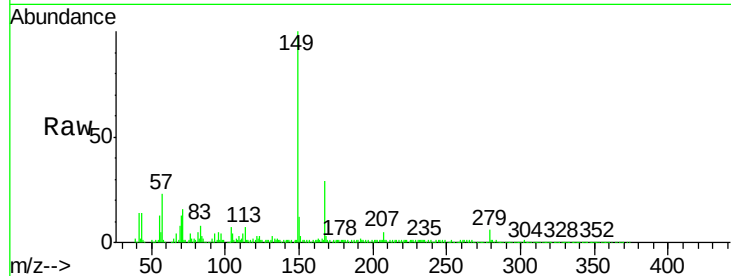
ClientSampleId :

C01P0RE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 149   | Resp: | 242121 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 167       | 29.1  | 23.0  | 34.4   |
| 279       | 5.9   | 4.0   | 6.0    |

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8/7/2015 4:43:14 PM



#85

Chrysene

Concen: 4.94 ng/ul

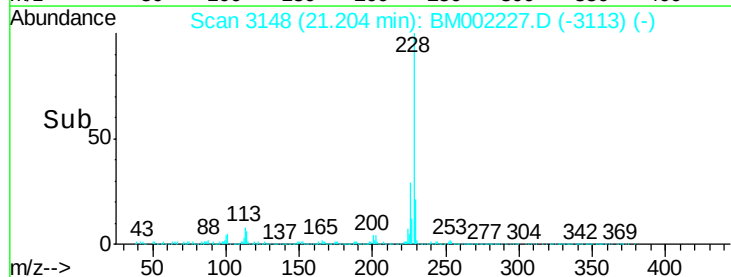
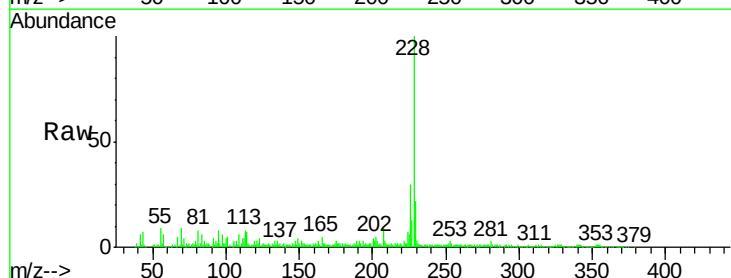
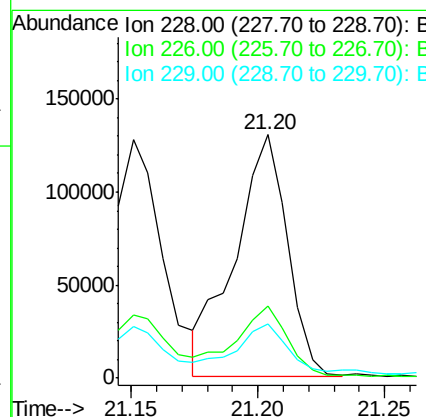
RT: 21.20 min Scan# 3148

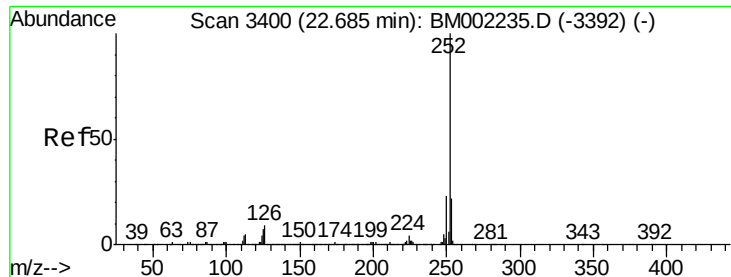
Delta R.T. 0.01 min

Lab File: BM002227.D

Acq: 05 Aug 2015 01:44

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 185821 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.7  | 22.2  | 33.4   |
| 229       | 22.1  | 15.5  | 23.3   |





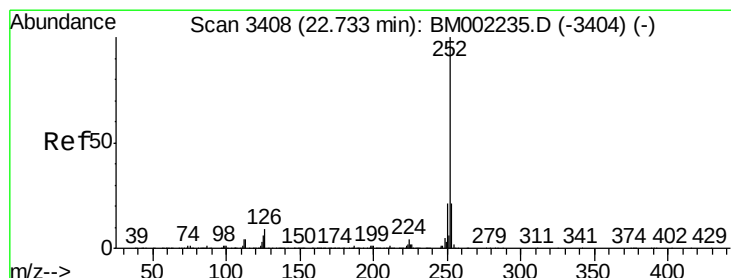
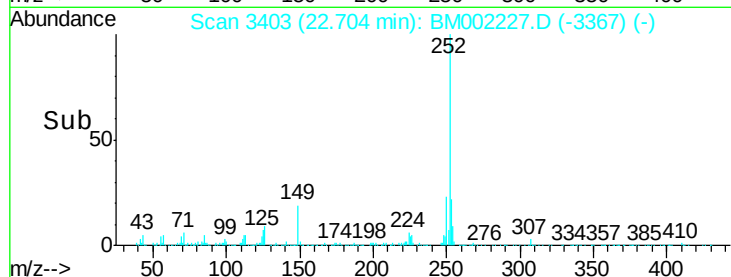
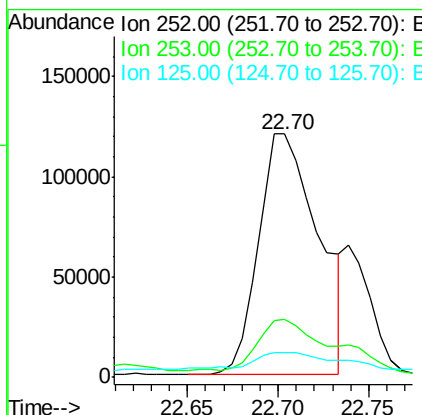
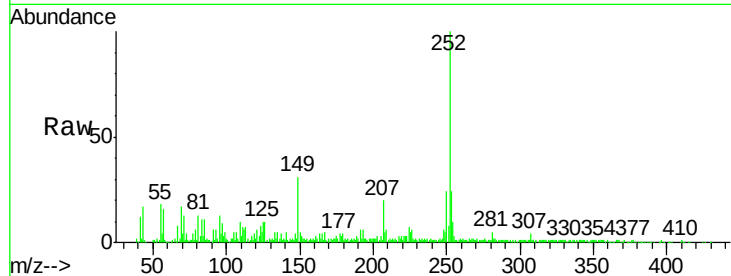
#88  
Benzo(b)fluoranthene  
Concen: 6.28 ng/ul  
RT: 22.70 min Scan# 3403  
Delta R.T. 0.01 min  
Lab File: BM002227.D  
Acq: 05 Aug 2015 01:44

Instrument :  
BNA\_M  
ClientSampleId :  
C01P0RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.9  | 17.4  | 26.0  |
| 125     | 10.3  | 5.4   | 8.2#  |

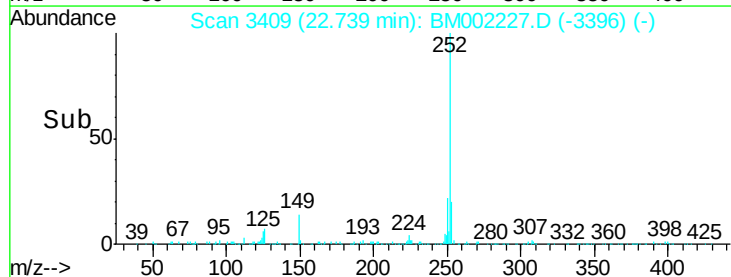
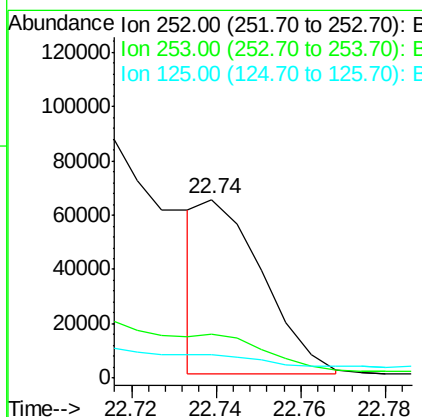
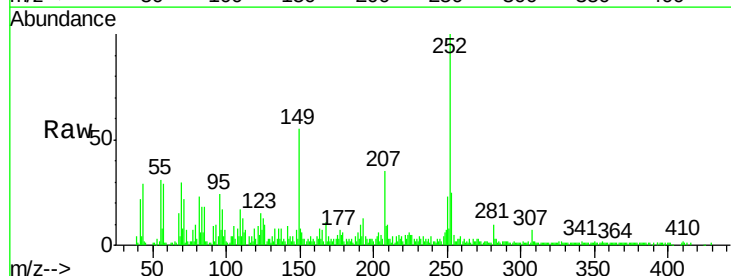
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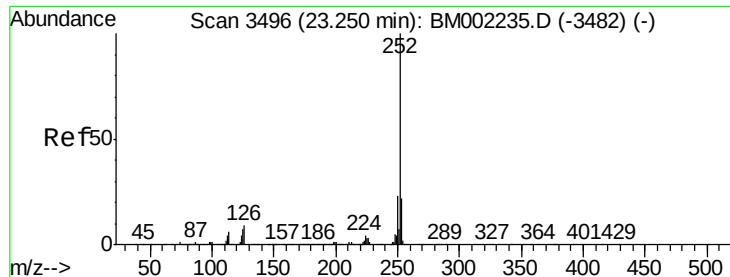
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#89  
Benzo(k)fluoranthene  
Concen: 1.54 ng/ul m  
RT: 22.74 min Scan# 3409  
Delta R.T. 0.01 min  
Lab File: BM002227.D  
Acq: 05 Aug 2015 01:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.9  | 17.4  | 26.2  |
| 125     | 12.9  | 5.6   | 8.4#  |





#91

Benzo(a)pyrene

Concen: 3.70 ng/ul

RT: 23.26 min Scan# 3498

Delta R.T. 0.01 min

Lab File: BM002227.D

Acq: 05 Aug 2015 01:44

Instrument :

BNA\_M

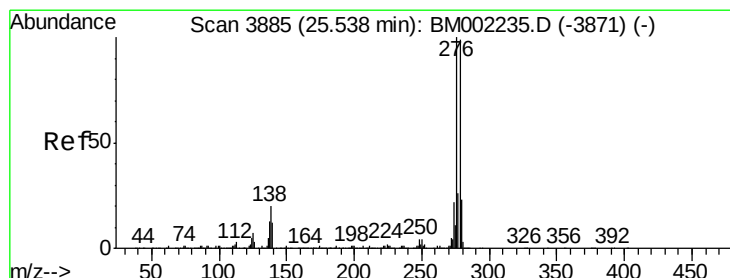
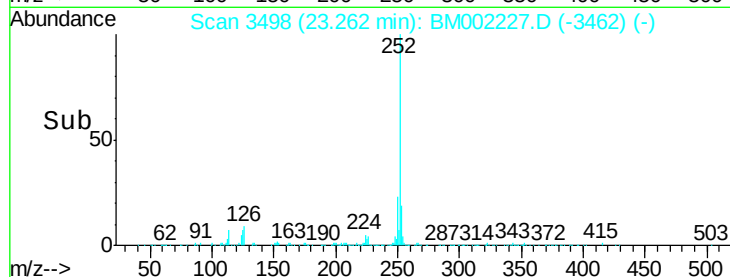
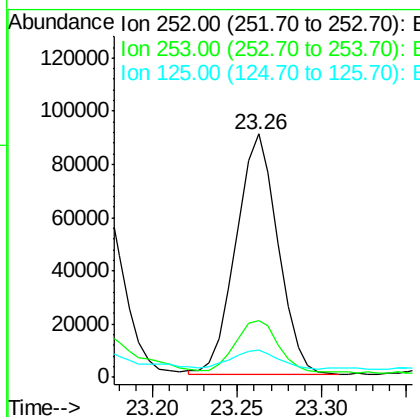
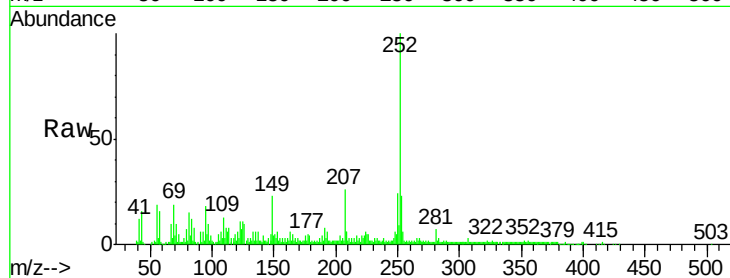
ClientSampleId :

C01P0RE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 155522 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.3  | 17.4  | 26.0   |
| 125       | 11.2  | 6.1   | 9.1#   |

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#92

Indeno(1,2,3-cd)pyrene

Concen: 2.42 ng/ul

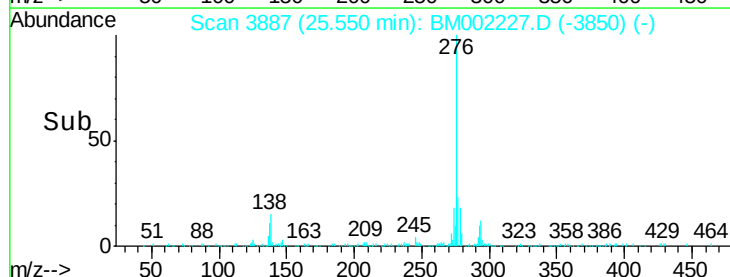
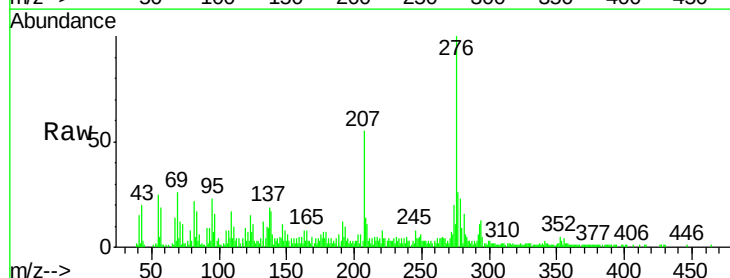
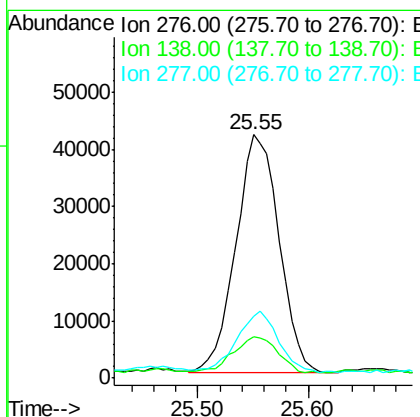
RT: 25.55 min Scan# 3887

Delta R.T. 0.02 min

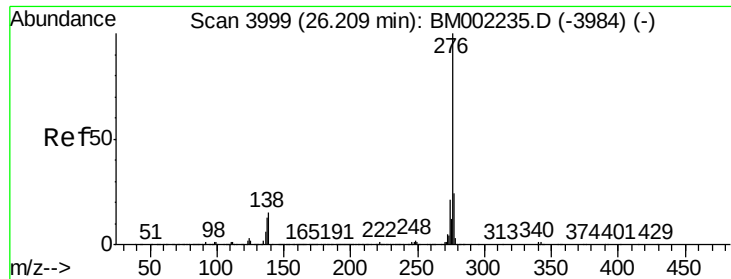
Lab File: BM002227.D

Acq: 05 Aug 2015 01:44

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 114829 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 16.9  | 15.4  | 23.0   |
| 277       | 25.6  | 20.2  | 30.2   |







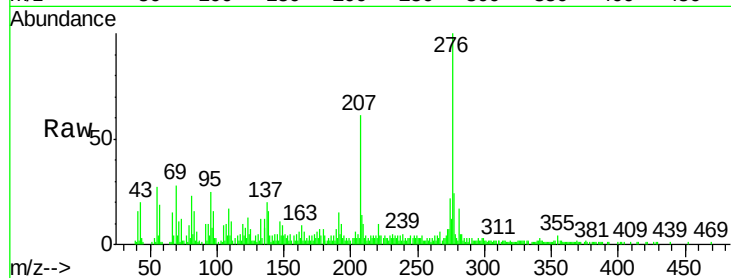
#94  
 Benzo(a,h,i)perylene  
 Concen: 2.78 ng/ul  
 RT: 26.23 min Scan# 4003  
 Delta R.T. 0.03 min  
 Lab File: BM002227.D  
 Acq: 05 Aug 2015 01:44

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C01P0RE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 109828 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 16.4  | 12.5  | 18.7   |
| 277       | 24.1  | 19.4  | 29.0   |

Manual Integrations  
 APPROVED

MMDadoda  
 8/7/2015 4:43:14 PM



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

