

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM071415\  
 Data File : BM001914.D  
 Acq On : 14 Jul 2015 13:12  
 Operator : TP/UM  
 Sample : G2928-03  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 X1Y18

Quant Time: Jul 14 18:29:52 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-SIM-BM071415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 14 04:27:22 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.67  | 152  | 1237     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.44 | 136  | 4739     | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.30 | 164  | 2504     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.06 | 188  | 5489     | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.25 | 240  | 4640     | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.47 | 264  | 4176     | 0.40 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 12.03 | 152  | 3020     | 0.41 | ng/ul | -0.01    |
| 14) Fluoranthene-d10        | 19.09 | 212  | 6604     | 0.44 | ng/ul | 0.00     |

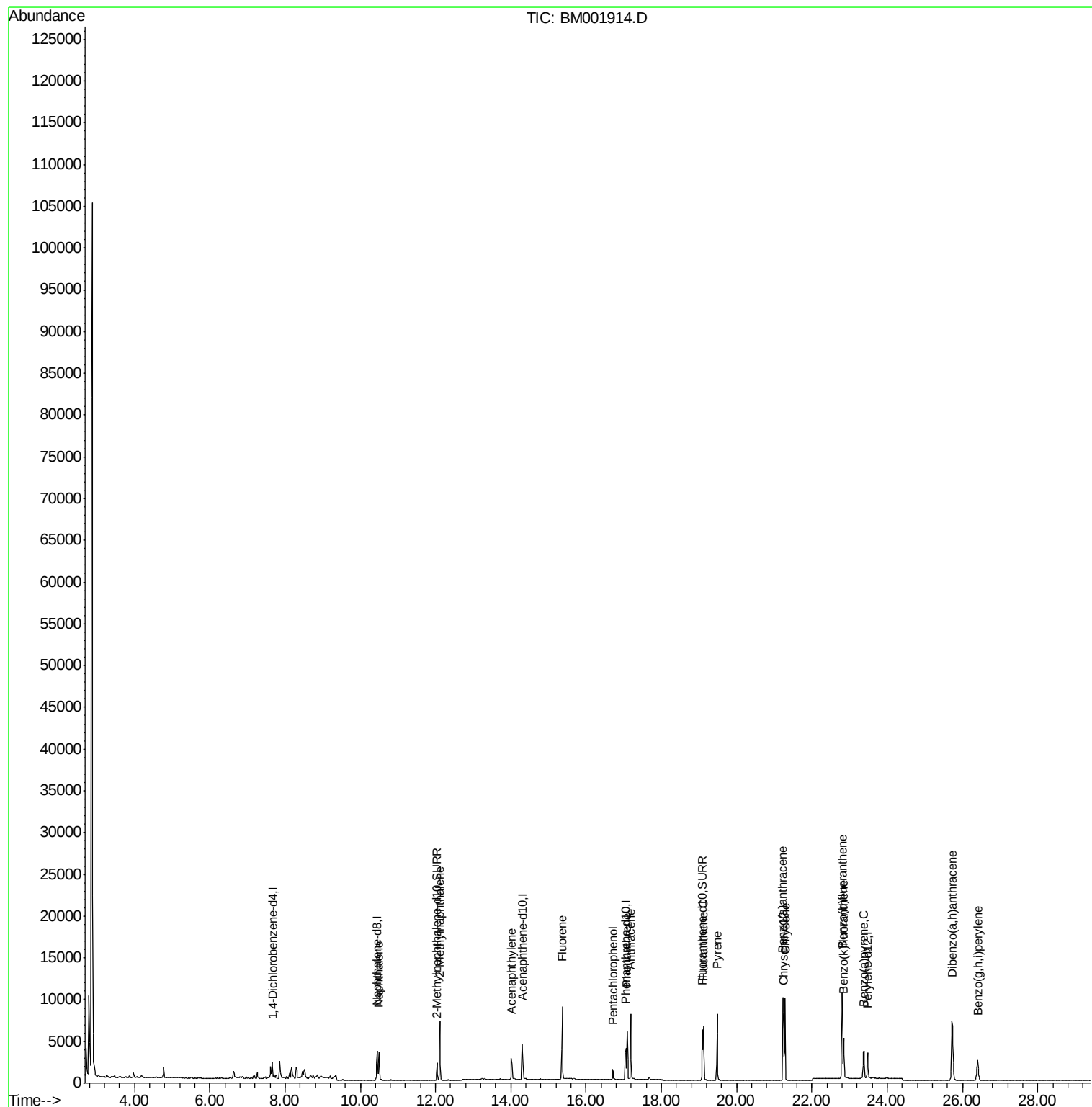
| Target Compounds           | R.T.  | QIon | Response | Conc | Units | Qvalue |
|----------------------------|-------|------|----------|------|-------|--------|
| 3) Naphthalene             | 10.49 | 128  | 4624     | 0.32 | ng/ul | 99     |
| 5) 2-Methylnaphthalene     | 12.11 | 142  | 5388     | 0.56 | ng/ul | 100    |
| 7) Acenaphthylene          | 14.01 | 152  | 3562     | 0.24 | ng/ul | 98     |
| 9) Fluorene                | 15.37 | 166  | 6123     | 0.51 | ng/ul | 97     |
| 11) Pentachlorophenol      | 16.70 | 266  | 1008     | 0.70 | ng/ul | 98     |
| 12) Phenanthrene           | 17.09 | 178  | 6248     | 0.33 | ng/ul | 100    |
| 13) Anthracene             | 17.18 | 178  | 8738     | 0.48 | ng/ul | 99     |
| 15) Fluoranthene           | 19.12 | 202  | 6068     | 0.29 | ng/ul | 99     |
| 17) Pyrene                 | 19.48 | 202  | 7735     | 0.37 | ng/ul | 99     |
| 18) Benzo(a)anthracene     | 21.23 | 228  | 8482     | 0.47 | ng/ul | 99     |
| 19) Chrysene               | 21.28 | 228  | 8583     | 0.48 | ng/ul | 99     |
| 21) Benzo(b)fluoranthene   | 22.81 | 252  | 12786    | 0.67 | ng/ul | 97     |
| 22) Benzo(k)fluoranthene   | 22.85 | 252  | 5440     | 0.34 | ng/ul | 99     |
| 23) Benzo(a)pyrene         | 23.38 | 252  | 4860     | 0.29 | ng/ul | 96     |
| 25) Dibenzo(a,h)anthracene | 25.73 | 278  | 10044    | 0.71 | ng/ul | 99     |
| 26) Benzo(g,h,i)perylene   | 26.40 | 276  | 4705     | 0.31 | ng/ul | 98     |

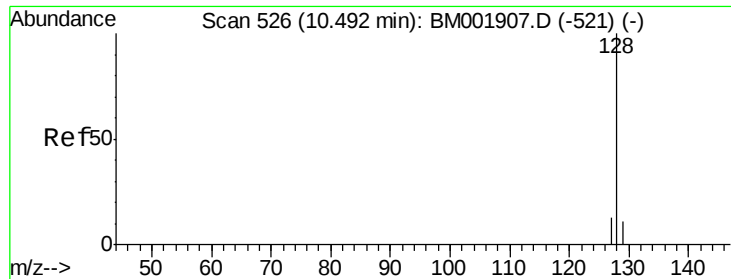
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Naphthalene

Concen: 0.32 ng/ul

RT: 10.49 min Scan# 526

Delta R.T. 0.00 min

Lab File: BM001914.D

Acq: 14 Jul 2015 13:12

Instrument :

BNA\_M

ClientSampleId :

X1Y18

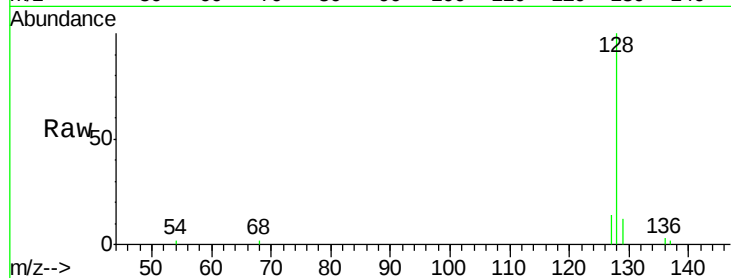
Tgt Ion:128 Resp: 4624

Ion Ratio Lower Upper

128 100

129 12.4 9.6 14.4

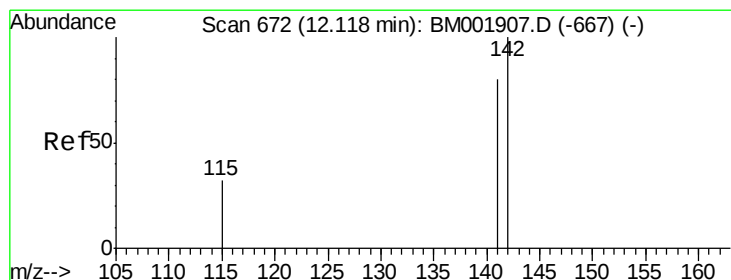
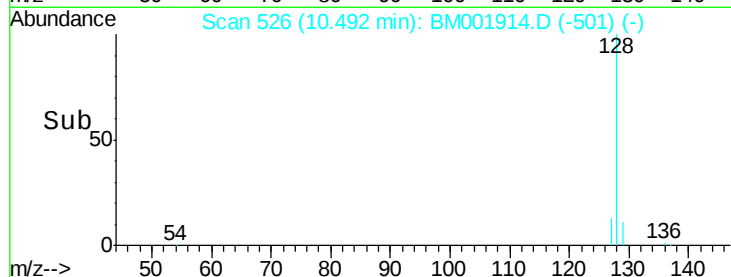
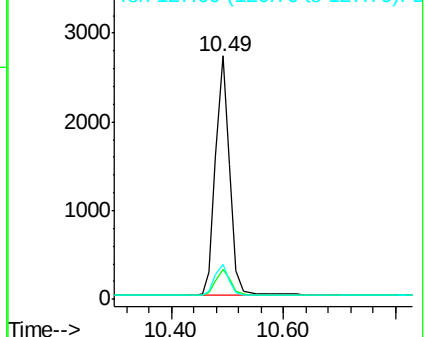
127 14.2 11.0 16.6



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#5

2-Methylnaphthalene

Concen: 0.56 ng/ul

RT: 12.11 min Scan# 671

Delta R.T. -0.01 min

Lab File: BM001914.D

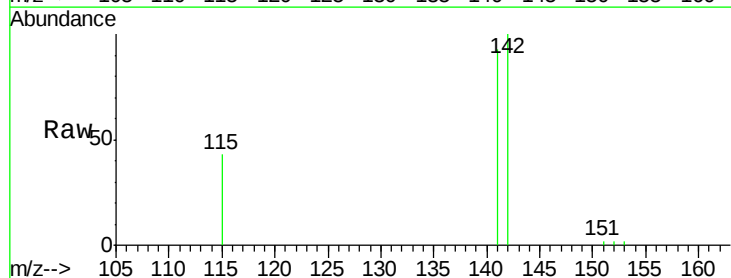
Acq: 14 Jul 2015 13:12

Tgt Ion:142 Resp: 5388

Ion Ratio Lower Upper

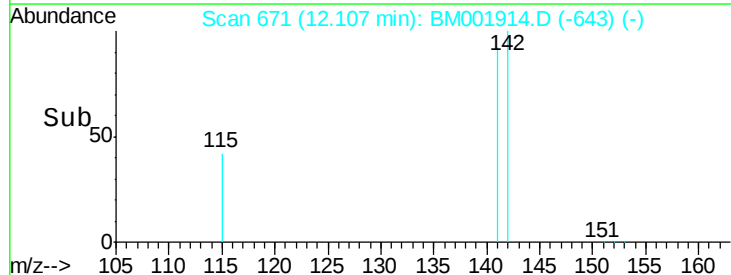
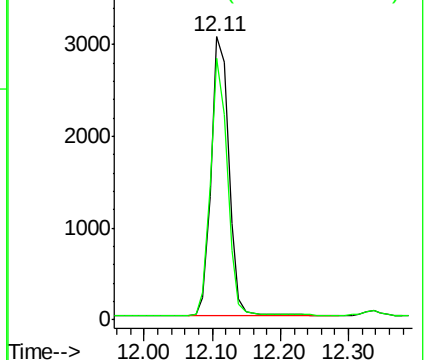
142 100

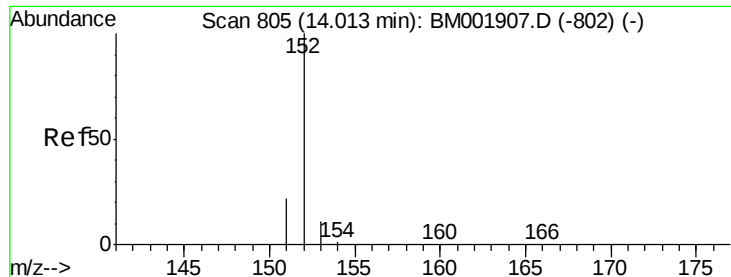
141 88.4 70.7 106.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.24 ng/ul

RT: 14.01 min Scan# 805

Delta R.T. 0.00 min

Lab File: BM001914.D

Acq: 14 Jul 2015 13:12

Instrument :

BNA\_M

ClientSampleId :

X1Y18

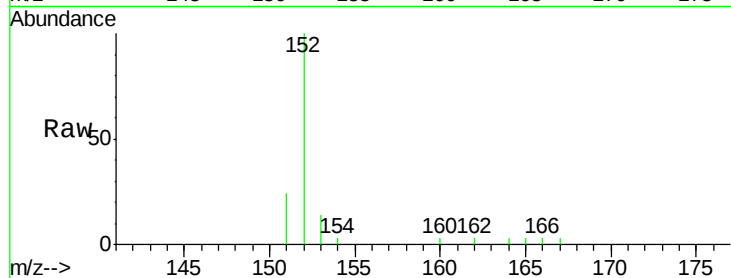
Tgt Ion:152 Resp: 3562

Ion Ratio Lower Upper

152 100

151 23.6 18.5 27.7

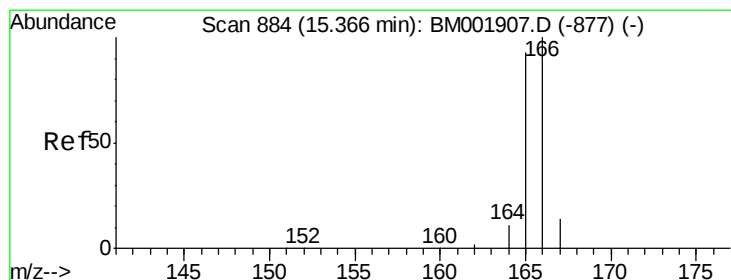
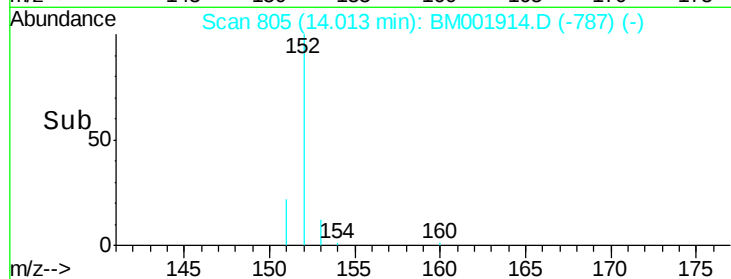
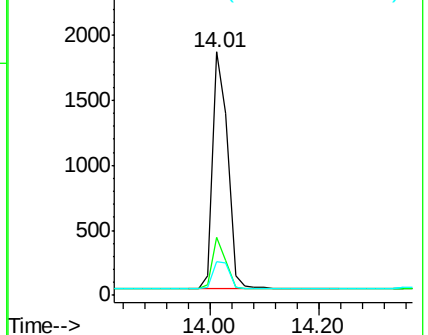
153 14.0 10.3 15.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#9

Fluorene

Concen: 0.51 ng/ul

RT: 15.37 min Scan# 884

Delta R.T. 0.00 min

Lab File: BM001914.D

Acq: 14 Jul 2015 13:12

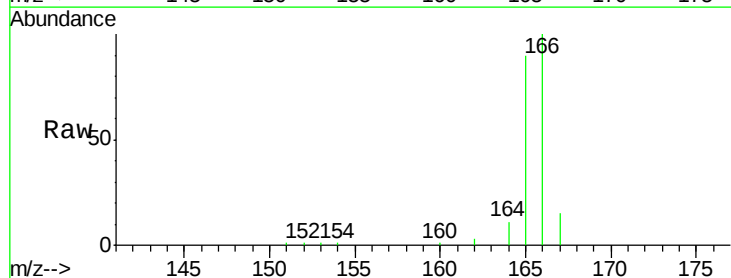
Tgt Ion:166 Resp: 6123

Ion Ratio Lower Upper

166 100

165 89.8 74.4 111.6

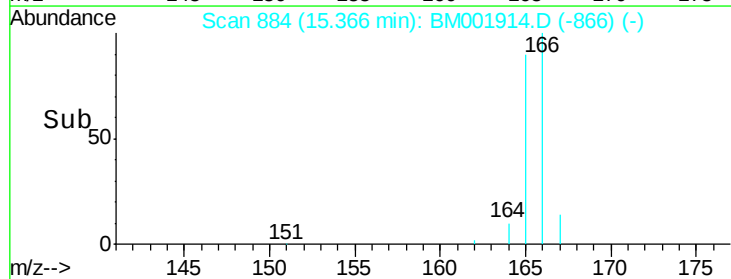
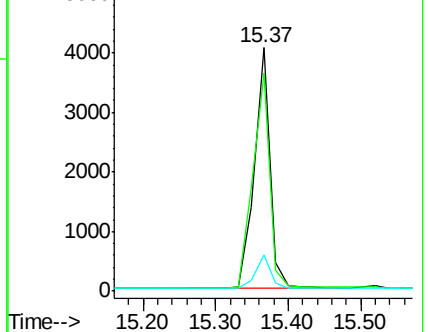
167 14.6 12.0 18.0

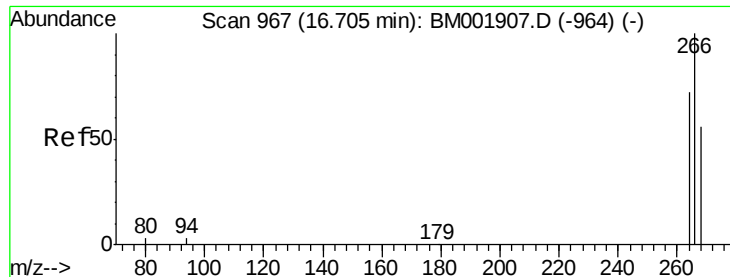


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

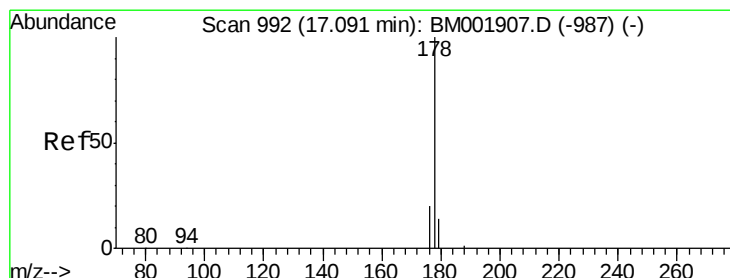
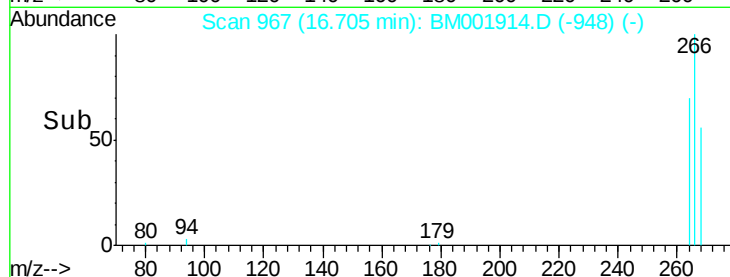
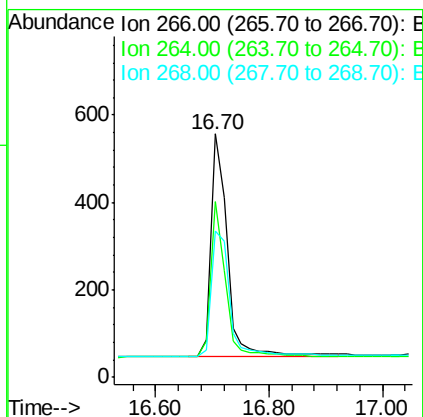
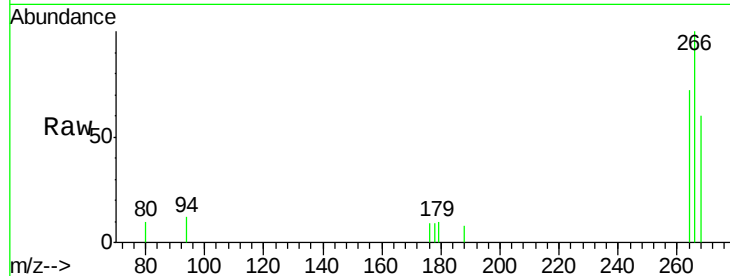




#11  
 Pentachlorophenol  
 Concen: 0.70 ng/ul  
 RT: 16.70 min Scan# 967  
 Delta R.T. 0.00 min  
 Lab File: BM001914.D  
 Acq: 14 Jul 2015 13:12

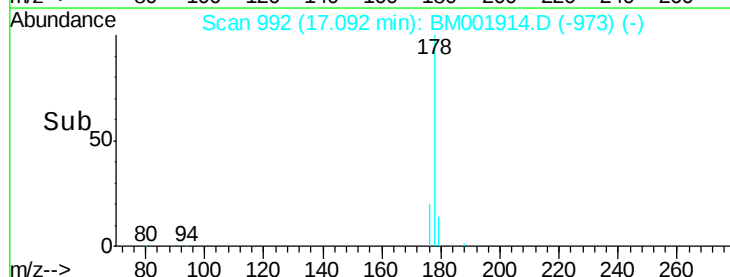
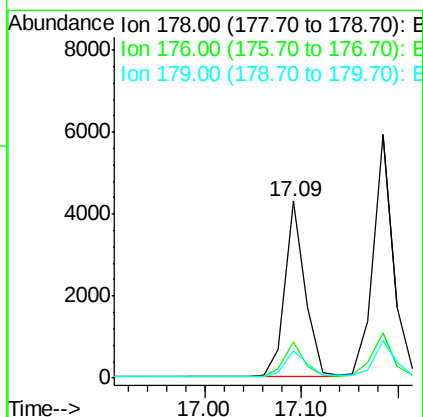
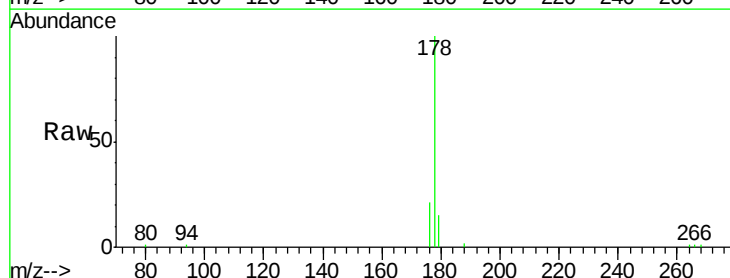
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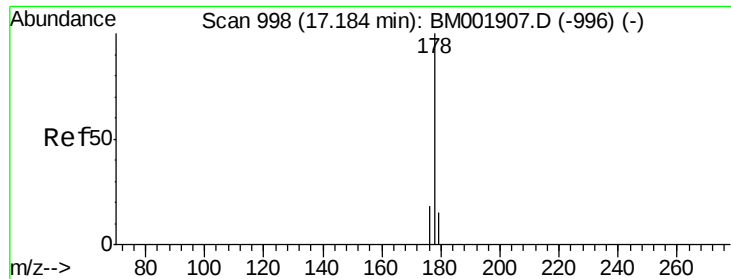
Tgt Ion: 266 Resp: 1008  
 Ion Ratio Lower Upper  
 266 100  
 264 65.7 49.9 74.9  
 268 64.9 52.1 78.1



#12  
 Phenanthrene  
 Concen: 0.33 ng/ul  
 RT: 17.09 min Scan# 992  
 Delta R.T. 0.00 min  
 Lab File: BM001914.D  
 Acq: 14 Jul 2015 13:12

Tgt Ion: 178 Resp: 6248  
 Ion Ratio Lower Upper  
 178 100  
 176 20.5 16.6 25.0  
 179 15.2 12.2 18.2

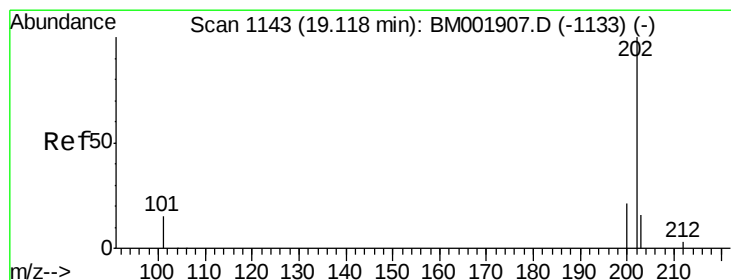
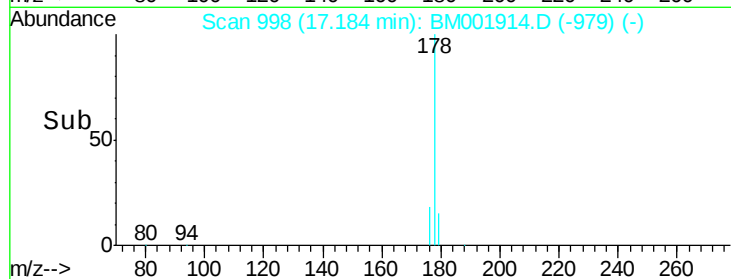
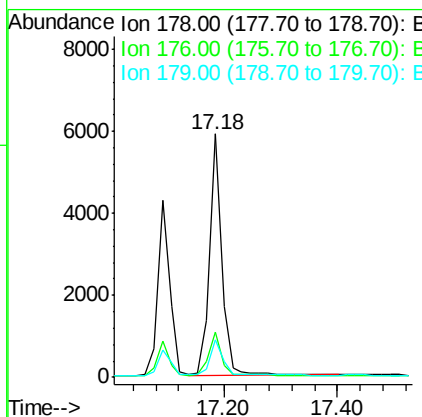
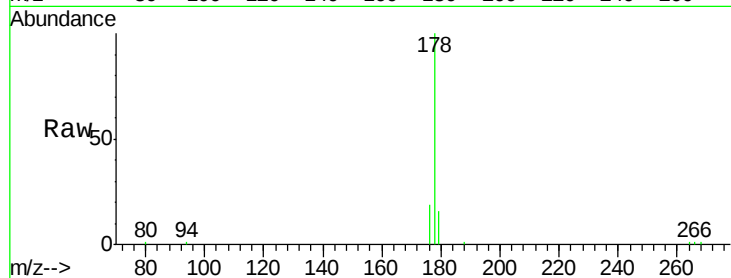




#13  
 Anthracene  
 Concen: 0.48 ng/ul  
 RT: 17.18 min Scan# 998  
 Delta R.T. 0.00 min  
 Lab File: BM001914.D  
 Acq: 14 Jul 2015 13:12

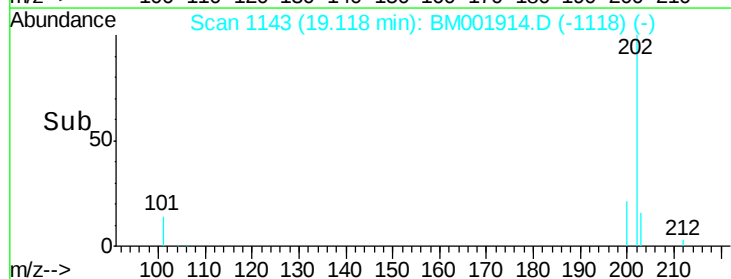
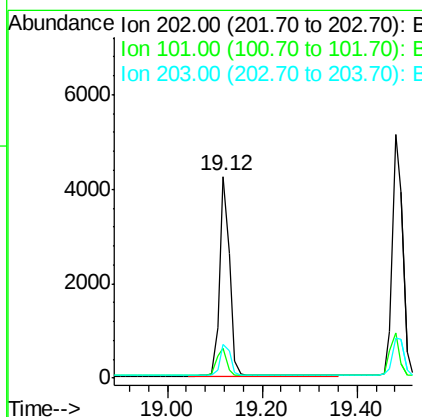
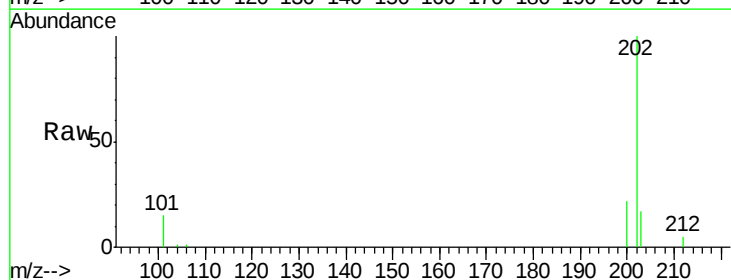
Instrument :  
 BNA\_M  
 ClientSampleId :  
 X1Y18

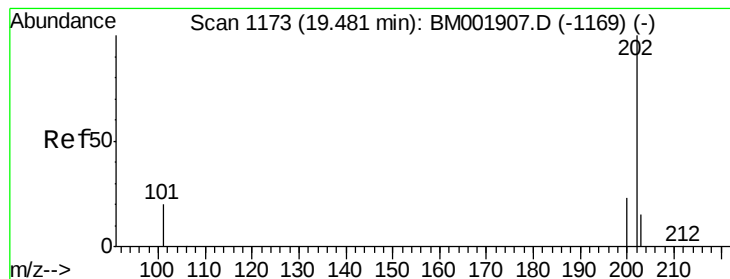
Tgt Ion:178 Resp: 8738  
 Ion Ratio Lower Upper  
 178 100  
 176 18.6 15.4 23.2  
 179 15.6 12.6 18.8



#15  
 Fluoranthene  
 Concen: 0.29 ng/ul  
 RT: 19.12 min Scan# 1143  
 Delta R.T. 0.00 min  
 Lab File: BM001914.D  
 Acq: 14 Jul 2015 13:12

Tgt Ion:202 Resp: 6068  
 Ion Ratio Lower Upper  
 202 100  
 101 14.8 0.0 35.3  
 203 17.0 0.0 36.8





#17

Pyrene

Concen: 0.37 ng/ul

RT: 19.48 min Scan# 1173

Delta R.T. 0.00 min

Lab File: BM001914.D

Acq: 14 Jul 2015 13:12

Instrument :

BNA\_M

ClientSampleId :

X1Y18

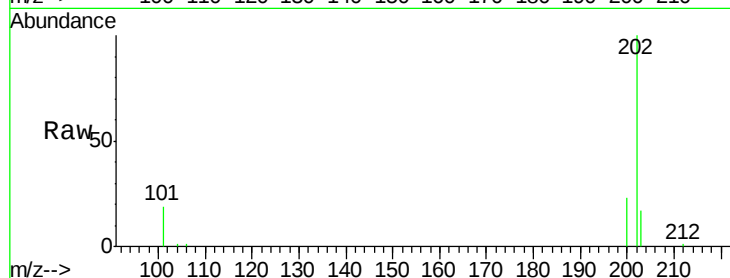
Tgt Ion:202 Resp: 7735

Ion Ratio Lower Upper

202 100

200 23.0 18.7 28.1

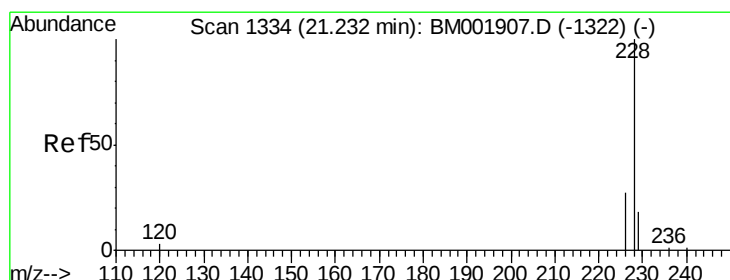
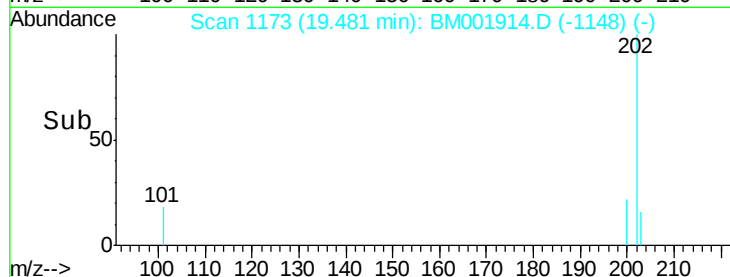
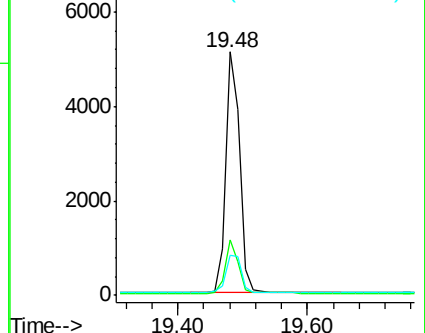
203 16.5 13.0 19.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#18

Benzo(a)anthracene

Concen: 0.47 ng/ul

RT: 21.23 min Scan# 1334

Delta R.T. 0.00 min

Lab File: BM001914.D

Acq: 14 Jul 2015 13:12

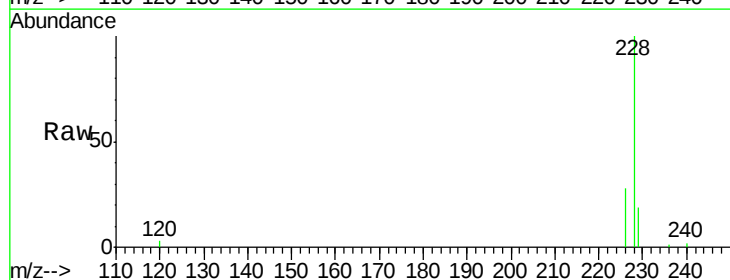
Tgt Ion:228 Resp: 8482

Ion Ratio Lower Upper

228 100

226 28.2 22.3 33.5

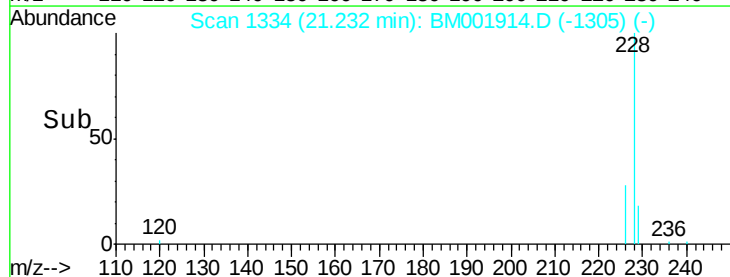
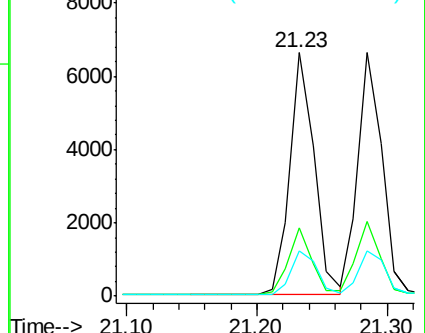
229 18.7 15.2 22.8

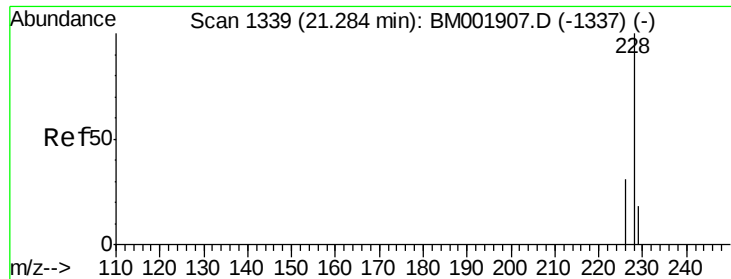


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#19

Chrysene

Concen: 0.48 ng/ul

RT: 21.28 min Scan# 1339

Delta R.T. 0.00 min

Lab File: BM001914.D

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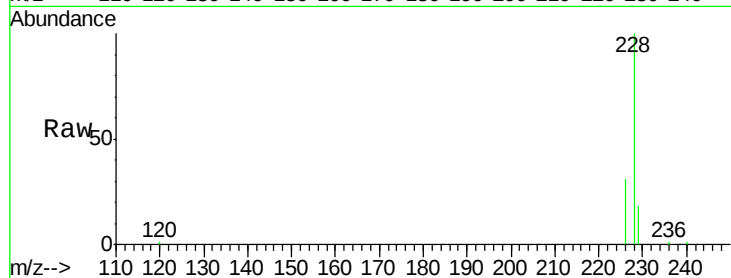
Tgt Ion:228 Resp: 8583

Ion Ratio Lower Upper

228 100

226 30.9 25.7 38.5

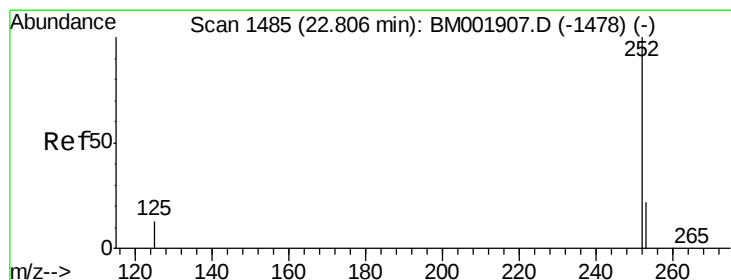
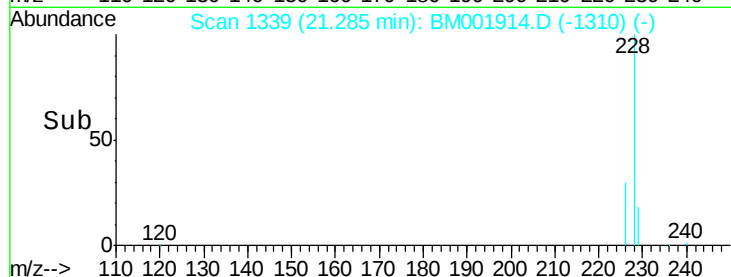
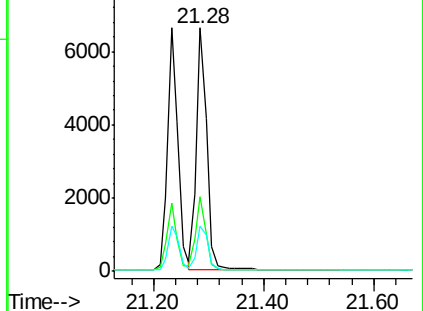
229 18.4 14.8 22.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#21

Benzo(b)fluoranthene

Concen: 0.67 ng/ul

RT: 22.81 min Scan# 1485

Delta R.T. 0.00 min

Lab File: BM001914.D

Acq: 14 Jul 2015 13:12

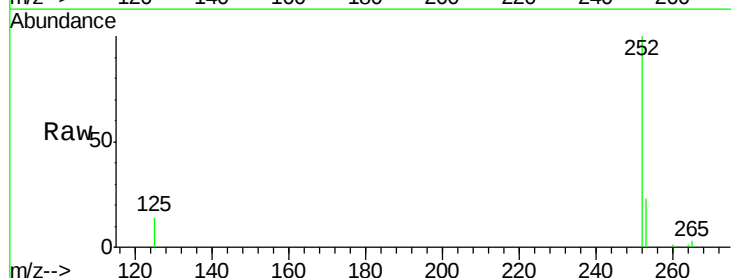
Tgt Ion:252 Resp: 12786

Ion Ratio Lower Upper

252 100

253 23.2 0.0 49.0

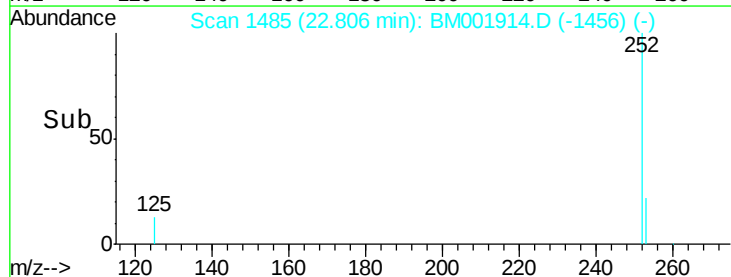
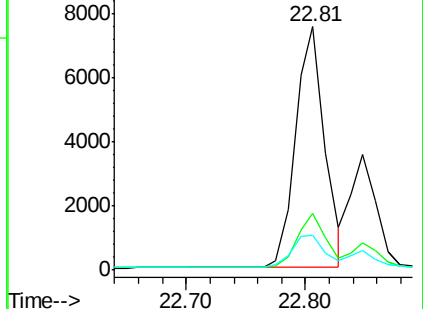
125 14.4 0.0 31.0

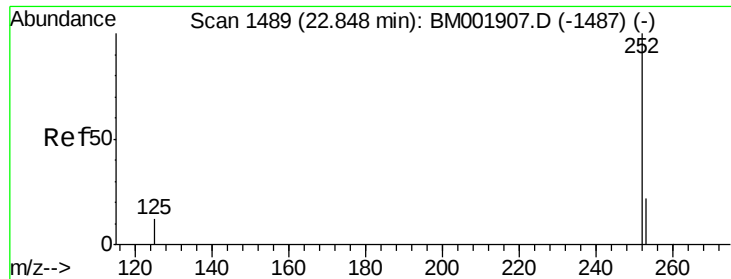


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#22

Benzo(k)fluoranthene

Concen: 0.34 ng/u1

RT: 22.85 min Scan# 1489

Delta R.T. 0.00 min

Lab File: BM001914.D

Acq: 14 Jul 2015 13:12

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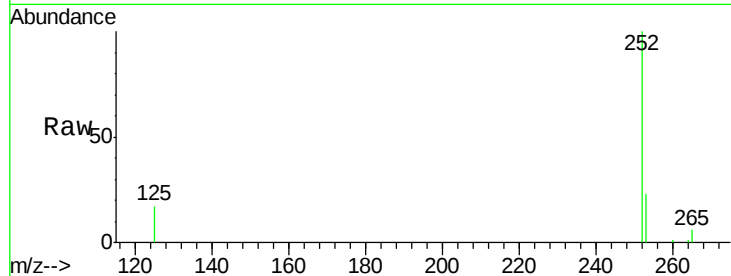
Tgt Ion:252 Resp: 5440

Ion Ratio Lower Upper

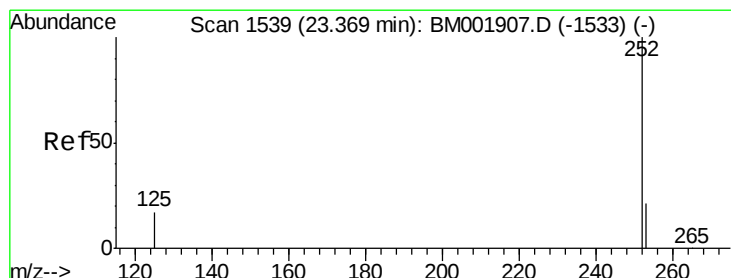
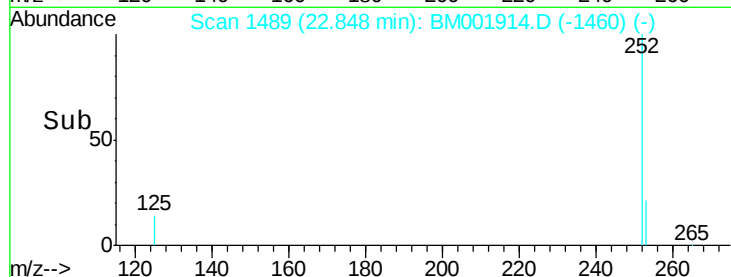
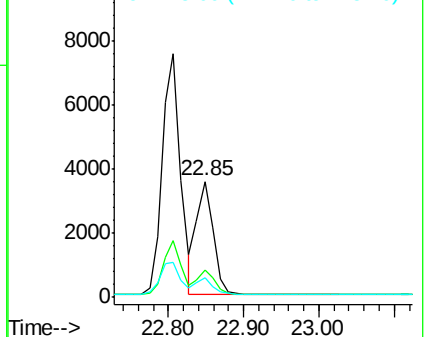
252 100

253 23.4 18.7 28.1

125 16.7 12.5 18.7



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#23

Benzo(a)pyrene

Concen: 0.29 ng/u1

RT: 23.38 min Scan# 1540

Delta R.T. 0.01 min

Lab File: BM001914.D

Acq: 14 Jul 2015 13:12

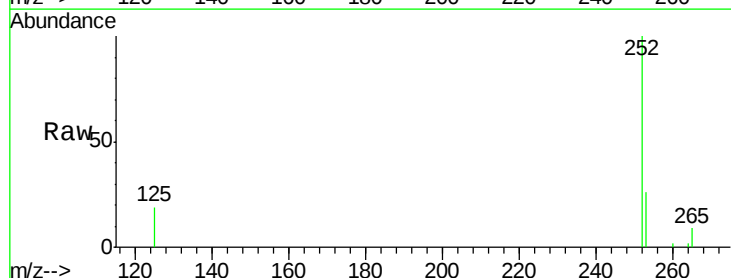
Tgt Ion:252 Resp: 4860

Ion Ratio Lower Upper

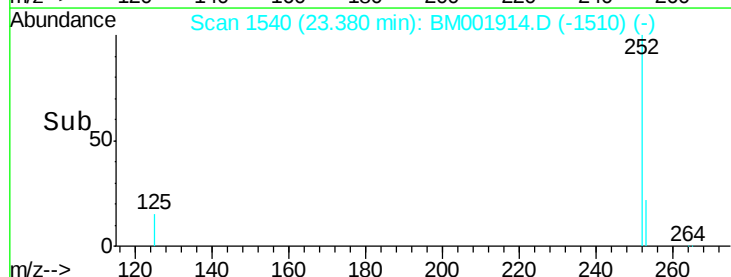
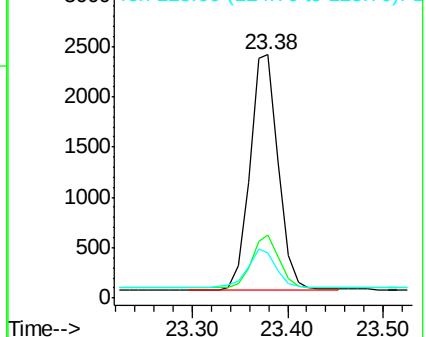
252 100

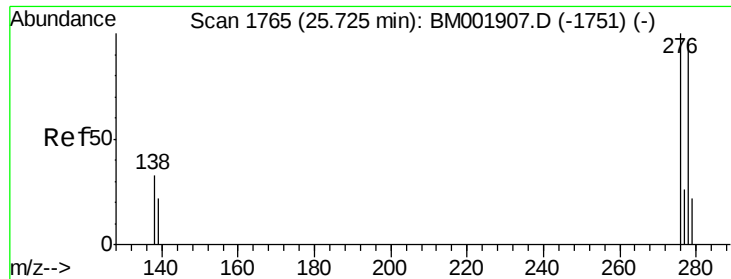
253 26.0 18.6 27.8

125 18.5 15.4 23.2



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

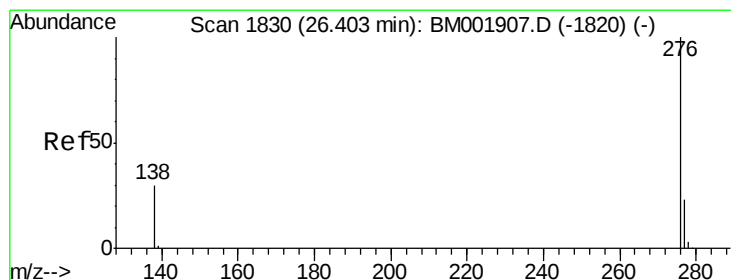
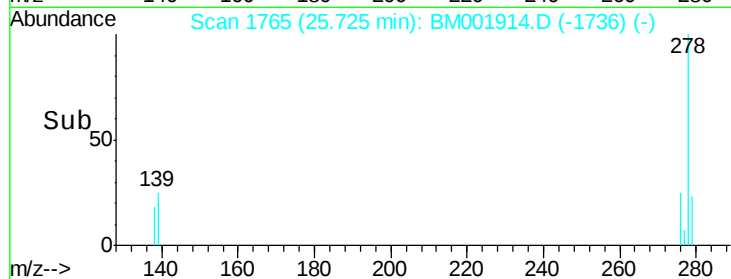
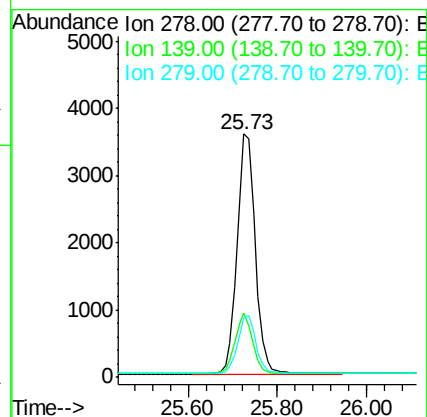
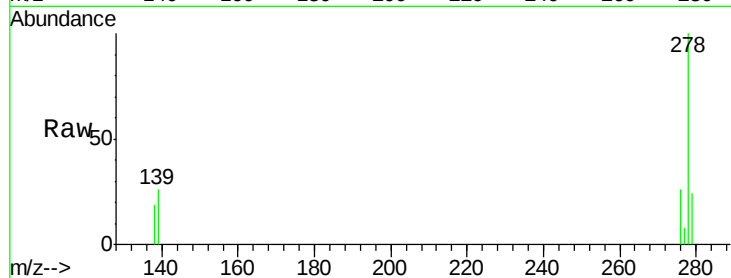




#25  
Dibenzo(a,h)anthracene  
Concen: 0.71 ng/ul  
RT: 25.73 min Scan# 1765  
Delta R.T. 0.00 min  
Lab File: BM001914.D  
Acq: 14 Jul 2015 13:12

Instrument :  
BNA\_M  
ClientSampleId :  
X1Y18

Tgt Ion: 278 Resp: 10044  
Ion Ratio Lower Upper  
278 100  
139 26.2 20.6 31.0  
279 24.5 20.3 30.5



#26  
Benzo(g,h,i)perylene  
Concen: 0.31 ng/ul  
RT: 26.40 min Scan# 1830  
Delta R.T. 0.00 min  
Lab File: BM001914.D  
Acq: 14 Jul 2015 13:12

Tgt Ion: 276 Resp: 4705  
Ion Ratio Lower Upper  
276 100  
277 26.0 20.1 30.1  
138 32.6 25.5 38.3

