

Data Path : Z:\HPCHEM1\BNA M\DATA\BM030917\  
 Data File : BM009159.D  
 Acq On : 09 Mar 2017 23:21  
 Operator : SJ/MA  
 Sample : I2062-17DL 5X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AK3DL

Quant Time: Mar 10 03:17:48 2017  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM030317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 10 03:16:46 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.88  | 152  | 302      | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.68 | 136  | 905      | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.52 | 164  | 504      | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.26 | 188  | 1139     | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.44 | 240  | 1275     | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.78 | 264  | 1312     | 0.40 | ng/ul | 0.00     |

|                             |       |     |     |      |       |      |
|-----------------------------|-------|-----|-----|------|-------|------|
| System Monitoring Compounds |       |     |     |      |       |      |
| 4) 2-Methylnaphthalene-d10  | 12.27 | 152 | 74  | 0.05 | ng/ul | 0.00 |
| 14) Fluoranthene-d10        | 19.29 | 212 | 195 | 0.05 | ng/ul | 0.00 |

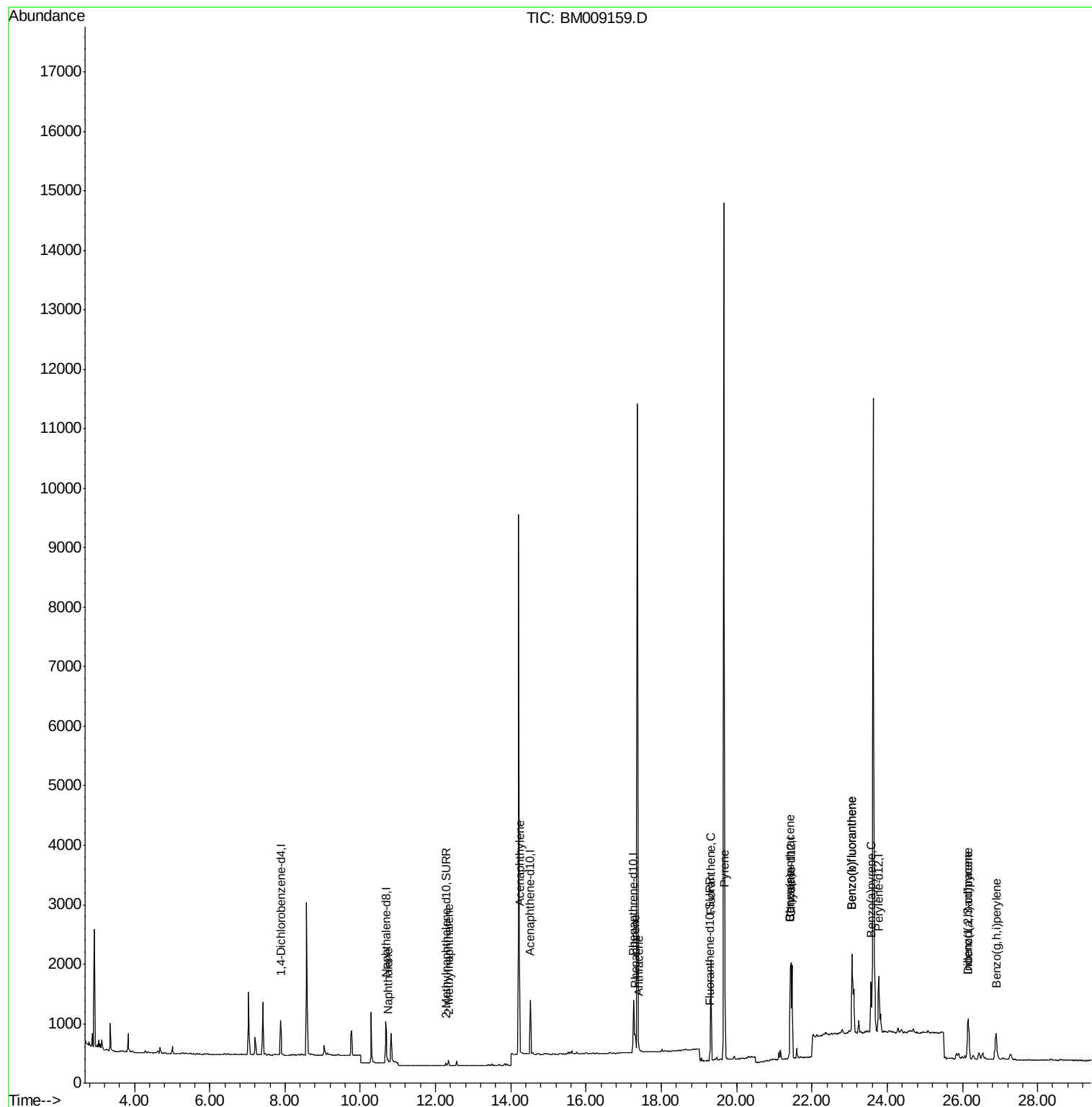
|                            |       |     |      |        |        |    |
|----------------------------|-------|-----|------|--------|--------|----|
| Target Compounds           |       |     |      | Ovalue |        |    |
| 3) Naphthalene             | 10.73 | 128 | 88   | 0.03   | ng/ul# | 6  |
| 5) 2-Methylnaphthalene     | 12.34 | 142 | 68   | 0.04   | ng/ul  | 96 |
| 7) Acenaphthylene          | 14.23 | 152 | 102  | 0.04   | ng/ul# | 3  |
| 12) Phenanthrene           | 17.30 | 178 | 491  | 0.14   | ng/ul# | 71 |
| 13) Anthracene             | 17.40 | 178 | 147  | 0.04   | ng/ul# | 37 |
| 15) Fluoranthene           | 19.32 | 202 | 1654 | 0.35   | ng/ul  | 98 |
| 17) Pyrene                 | 19.68 | 202 | 1585 | 0.36   | ng/ul  | 93 |
| 18) Benzo(a)anthracene     | 21.42 | 228 | 1331 | 0.31   | ng/ul  | 93 |
| 19) Chrysene               | 21.42 | 228 | 1331 | 0.33   | ng/ul  | 94 |
| 21) Benzo(b)fluoranthene   | 23.07 | 252 | 3171 | 0.62   | ng/ul  | 95 |
| 22) Benzo(k)fluoranthene   | 23.07 | 252 | 3171 | 0.70   | ng/ul  | 93 |
| 23) Benzo(a)pyrene         | 23.57 | 252 | 1253 | 0.27   | ng/ul  | 93 |
| 24) Indeno(1,2,3-cd)pyrene | 26.15 | 276 | 1203 | 0.20   | ng/ul# | 88 |
| 25) Dibenzo(a,h)anthracene | 26.15 | 278 | 291  | 0.06   | ng/ul# | 16 |
| 26) Benzo(g,h,i)perylene   | 26.89 | 276 | 1109 | 0.22   | ng/ul# | 91 |

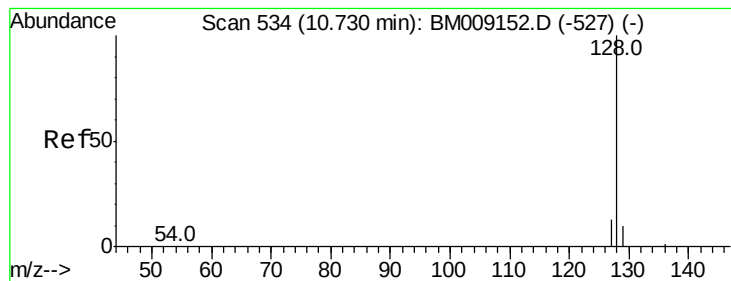
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Mar 10 03:16:46 2017  
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#3

Naphthalene

Concen: 0.03 ng/ul

RT: 10.73 min Scan# 534

Delta R.T. 0.00 min

Lab File: BM009159.D

Acq: 09 Mar 2017 23:21

Instrument :

BNA\_M

ClientSampleId :

C0AK3DL

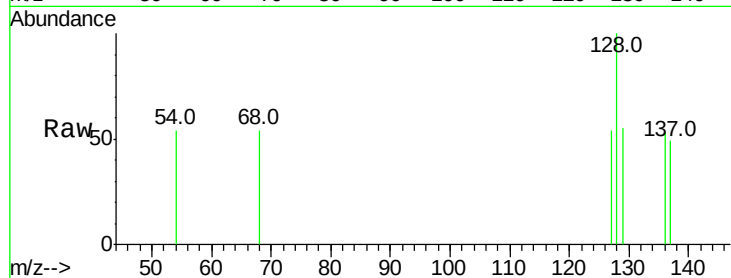
Tot Ion:128 Resp: 88

Ion Ratio Lower Upper

128 100

129 54.6 11.3 16.9#

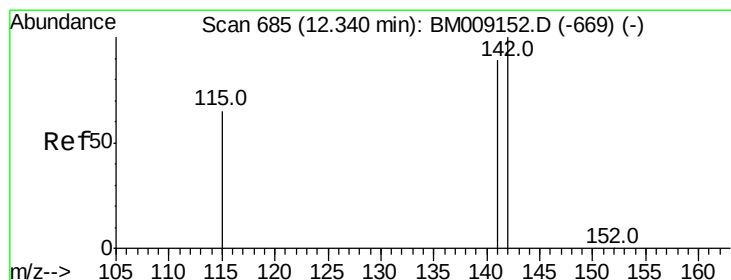
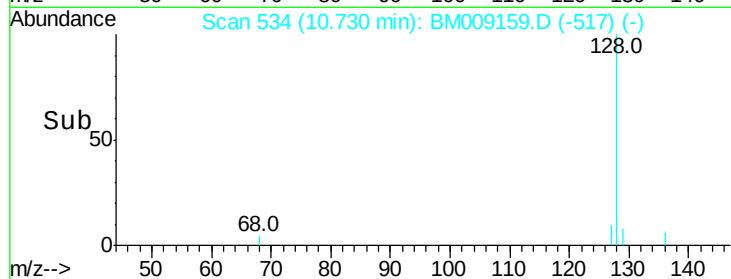
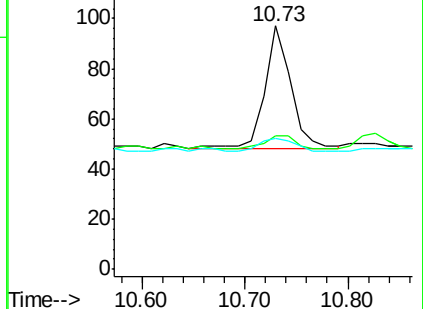
127 53.6 12.8 19.2#



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: 0.04 ng/ul

RT: 12.34 min Scan# 685

Delta R.T. 0.00 min

Lab File: BM009159.D

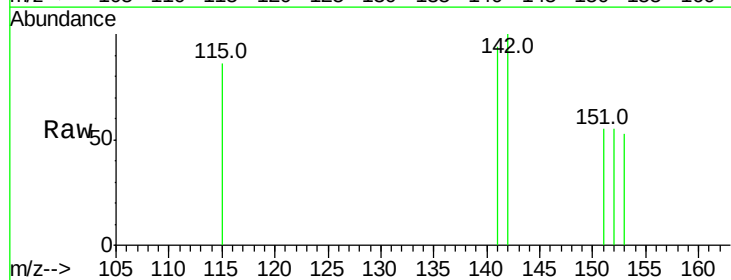
Acq: 09 Mar 2017 23:21

Tgt Ion:142 Resp: 68

Ion Ratio Lower Upper

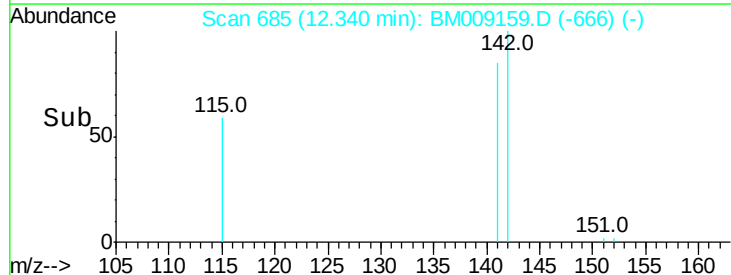
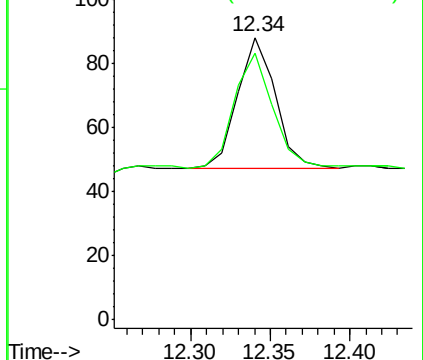
142 100

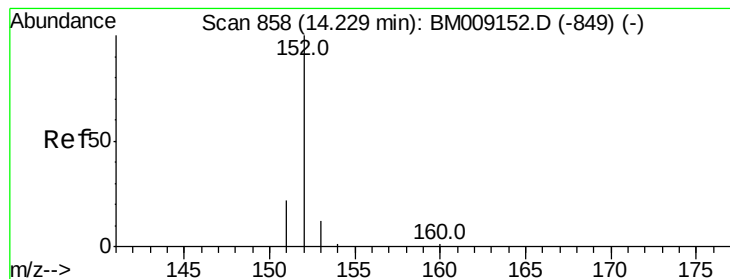
141 94.1 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.04 ng/ul

RT: 14.23 min Scan# 858

Delta R.T. 0.00 min

Lab File: BM009159.D

Acq: 09 Mar 2017 23:21

Instrument :

BNA\_M

ClientSampleId :

C0AK3DL

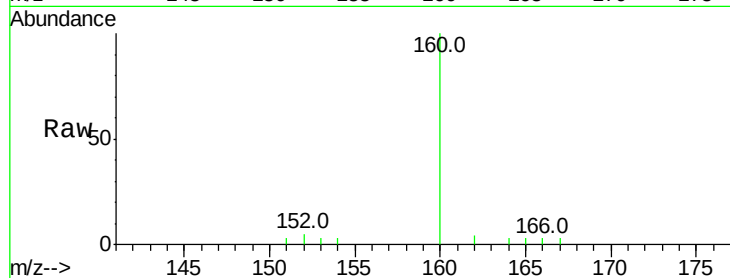
Tot Ion:152 Resp: 102

Ion Ratio Lower Upper

152 100

151 64.8 17.1 25.7#

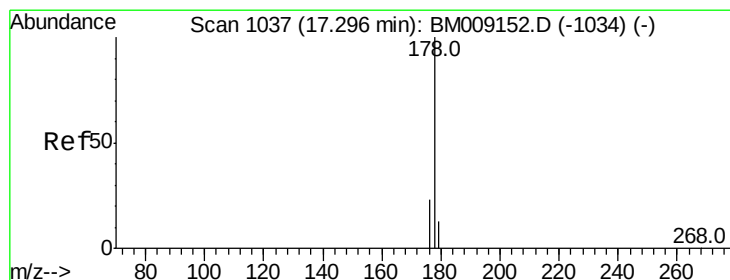
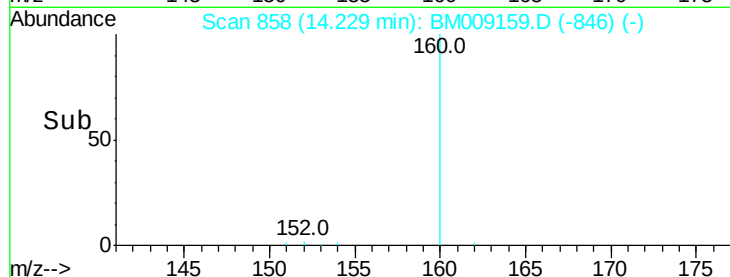
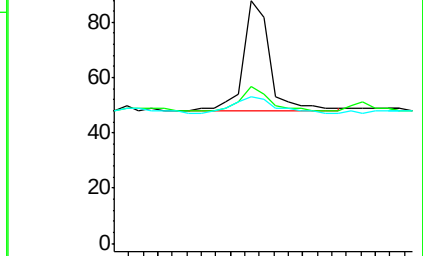
153 60.2 12.8 19.2#



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



#12

Phenanthrene

Concen: 0.14 ng/ul

RT: 17.30 min Scan# 1037

Delta R.T. 0.00 min

Lab File: BM009159.D

Acq: 09 Mar 2017 23:21

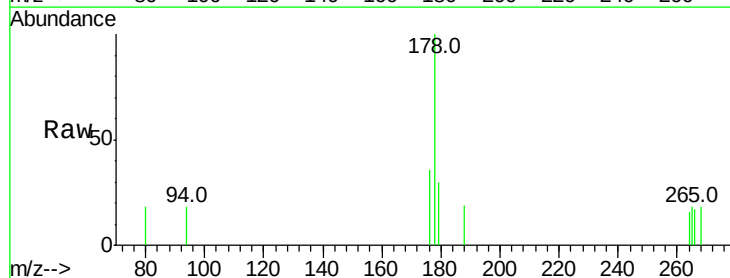
Tgt Ion:178 Resp: 491

Ion Ratio Lower Upper

178 100

176 36.5 18.4 27.6#

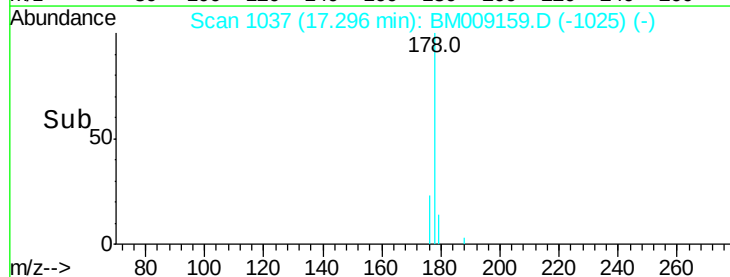
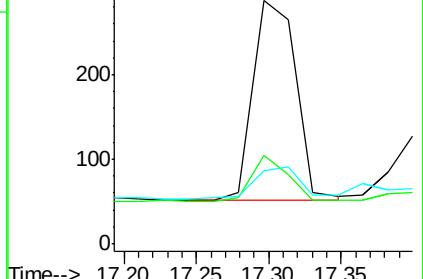
179 30.2 13.6 20.4#

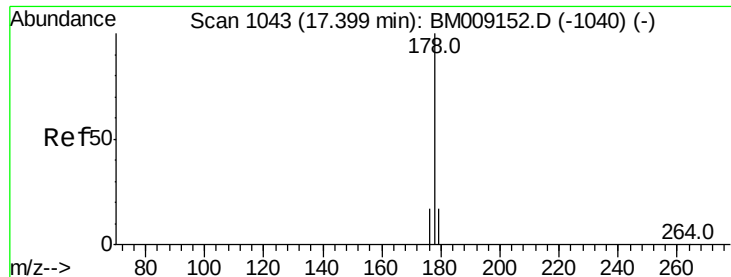


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#13

Anthracene

Concen: 0.04 ng/ul

RT: 17.40 min Scan# 1043

Delta R.T. 0.00 min

Lab File: BM009159.D

Acq: 09 Mar 2017 23:21

Instrument :

BNA\_M

ClientSampleId :

C0AK3DL

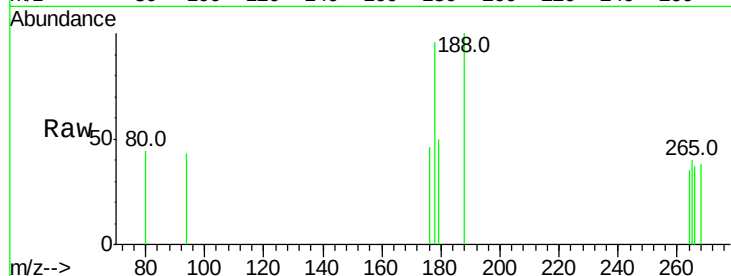
Tot Ion:178 Resp: 147

Ion Ratio Lower Upper

178 100

176 48.1 18.1 27.1#

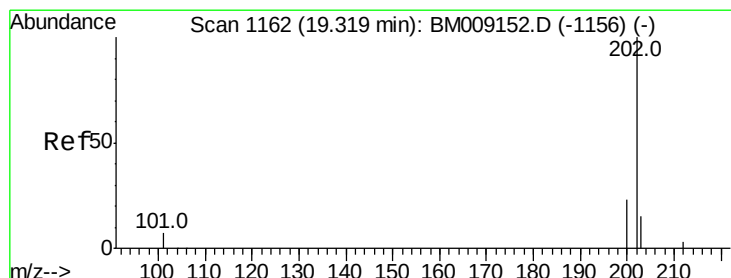
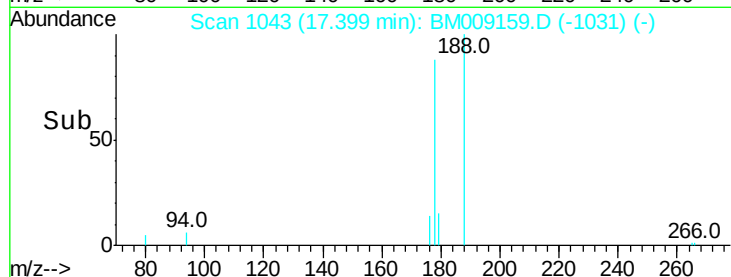
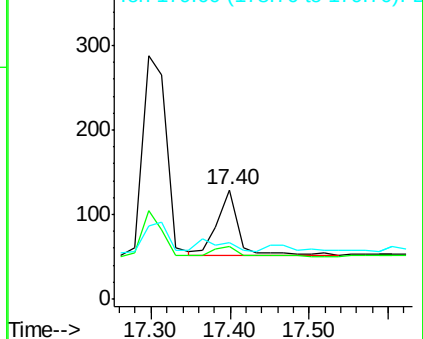
179 51.9 14.7 22.1#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#15

Fluoranthene

Concen: 0.35 ng/ul

RT: 19.32 min Scan# 1162

Delta R.T. 0.00 min

Lab File: BM009159.D

Acq: 09 Mar 2017 23:21

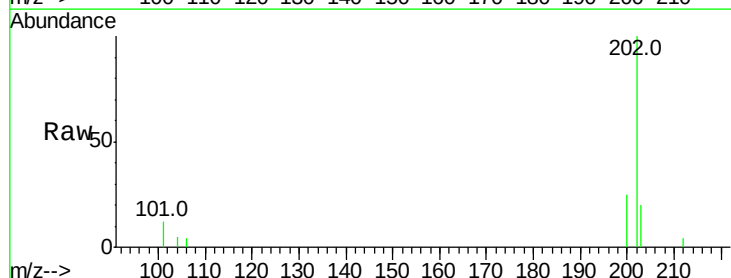
Tgt Ion:202 Resp: 1654

Ion Ratio Lower Upper

202 100

101 11.6 0.0 30.3

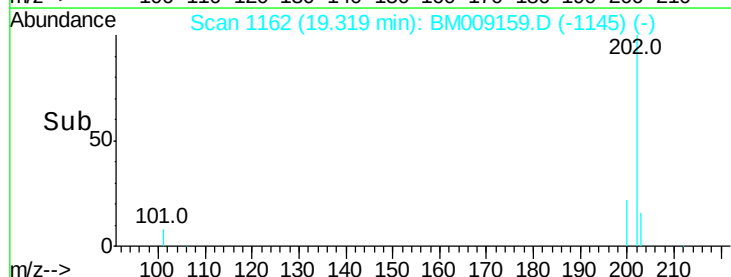
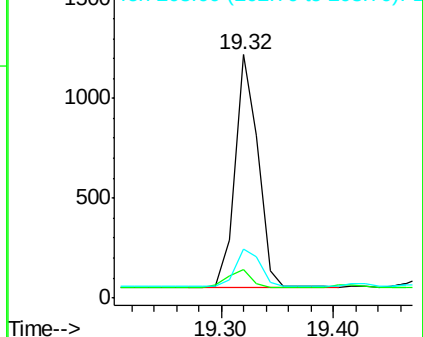
203 20.3 0.0 39.5

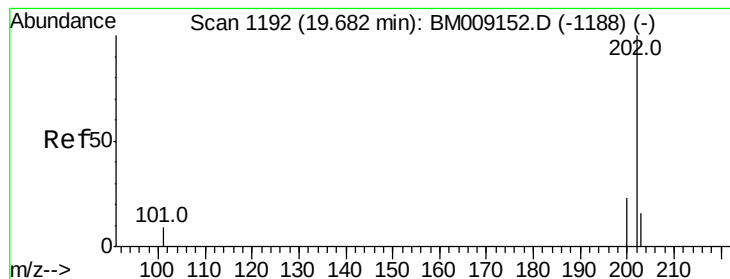


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#17

Pvrene

Concen: 0.36 ng/ul

RT: 19.68 min Scan# 1192

Delta R.T. 0.00 min

Lab File: BM009159.D

Acq: 09 Mar 2017 23:21

Instrument :

BNA\_M

ClientSampled :

C0AK3DL

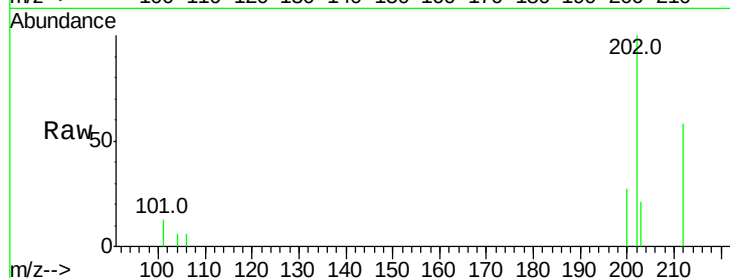
Tot Ion:202 Resp: 1585

Ion Ratio Lower Upper

202 100

200 27.1 18.2 27.4

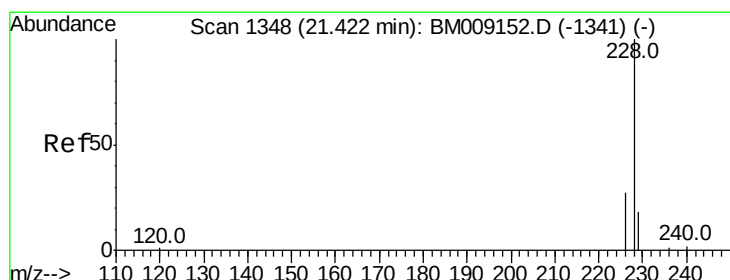
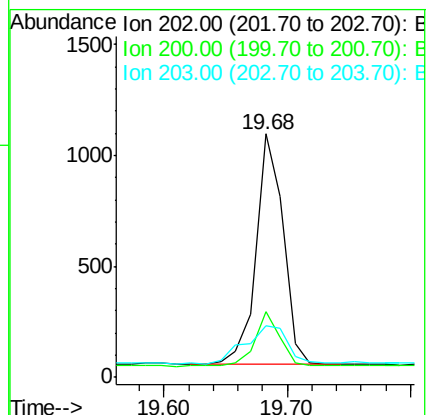
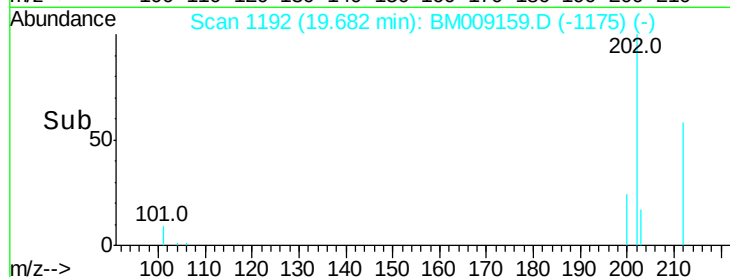
203 21.2 15.6 23.4



Abundance Ion 202.00 (201.70 to 202.70): E

1500 Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#18

Benzo(a)anthracene

Concen: 0.31 ng/ul

RT: 21.42 min Scan# 1348

Delta R.T. 0.00 min

Lab File: BM009159.D

Acq: 09 Mar 2017 23:21

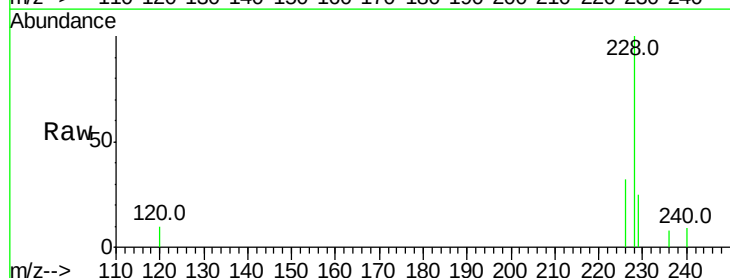
Tgt Ion:228 Resp: 1331

Ion Ratio Lower Upper

228 100

226 32.0 22.8 34.2

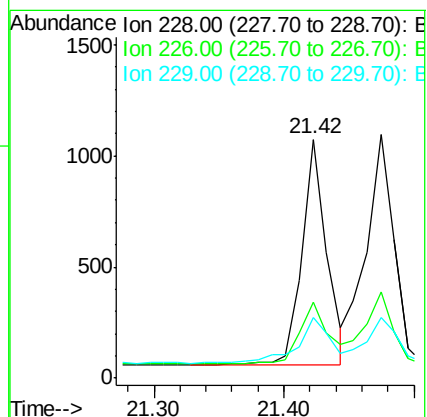
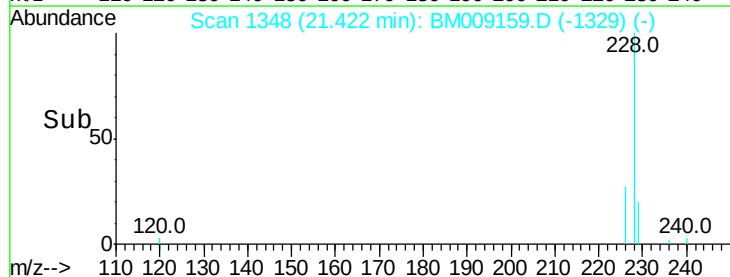
229 25.2 17.0 25.6

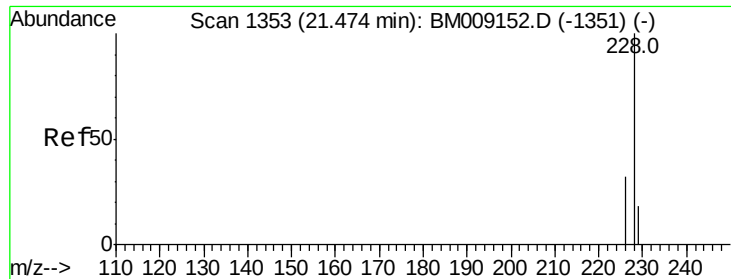


Abundance Ion 228.00 (227.70 to 228.70): E

1500 Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#19

Chrysene

Concen: 0.33 ng/ul

RT: 21.42 min Scan# 1348

Delta R.T. -0.05 min

Lab File: BM009159.D

Acq: 09 Mar 2017 23:21

Instrument :

BNA\_M

ClientSampled :

C0AK3DL

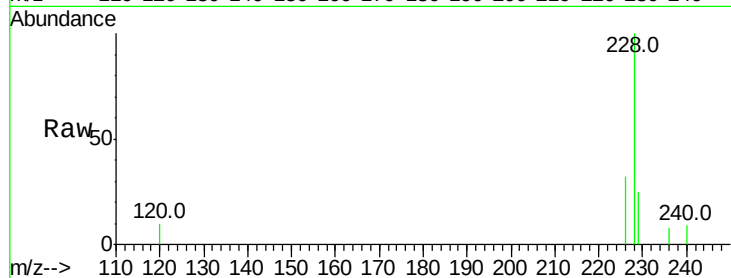
Tot Ion:228 Resp: 1331

Ion Ratio Lower Upper

228 100

226 32.0 23.4 35.0

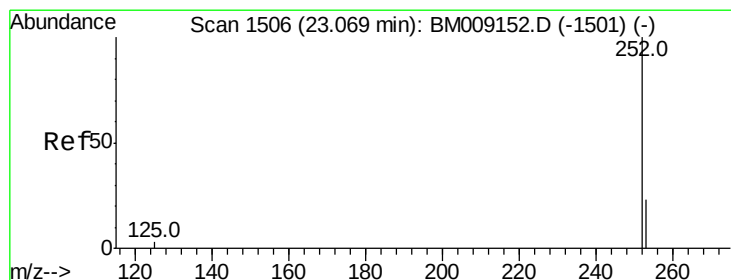
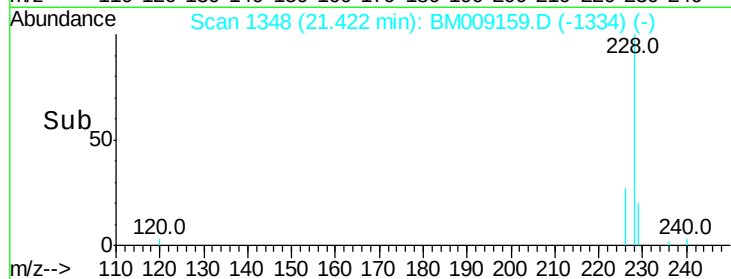
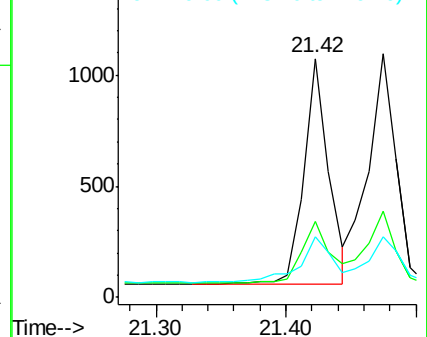
229 25.2 17.7 26.5



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: 0.62 ng/ul

RT: 23.07 min Scan# 1506

Delta R.T. 0.00 min

Lab File: BM009159.D

Acq: 09 Mar 2017 23:21

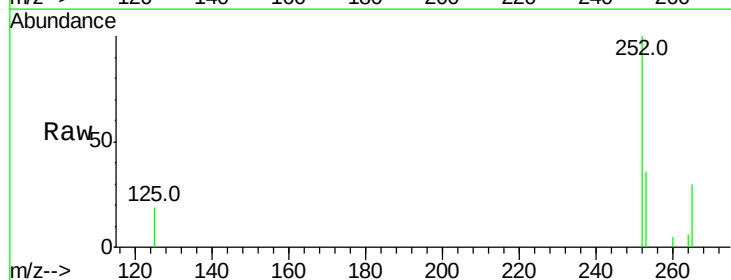
Tgt Ion:252 Resp: 3171

Ion Ratio Lower Upper

252 100

253 35.8 0.0 64.2

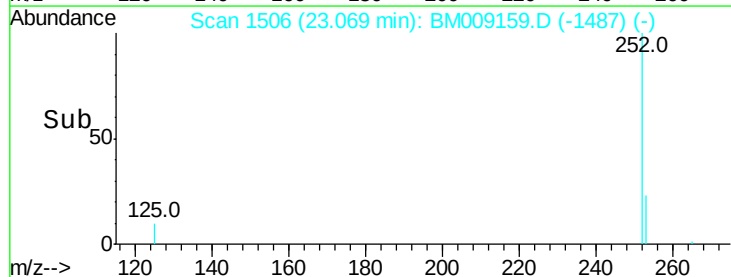
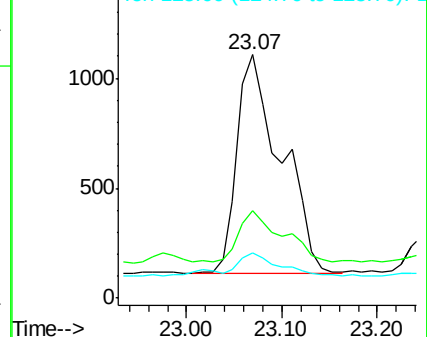
125 18.7 0.0 35.0

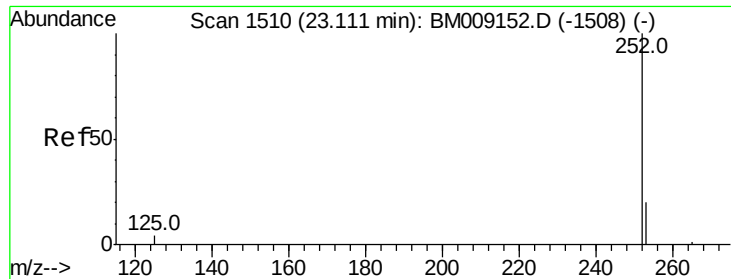


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

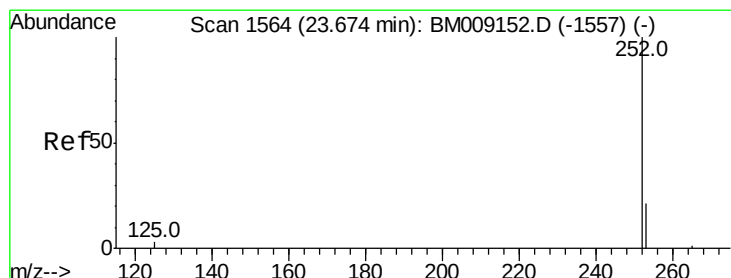
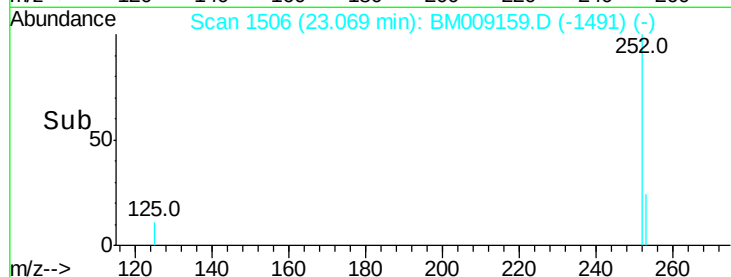
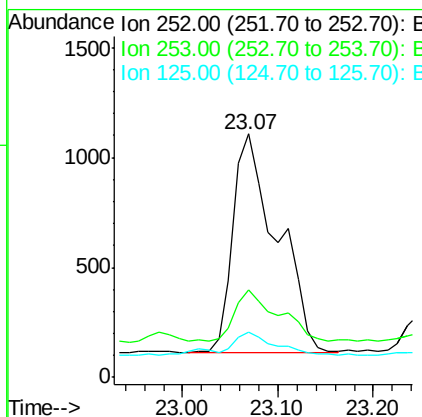
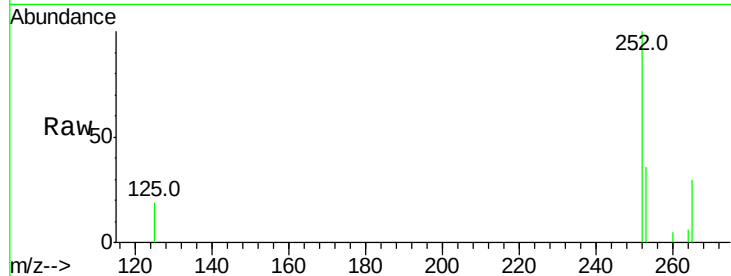




#22  
Benzo(k)fluoranthene  
Concen: 0.70 ng/ul  
RT: 23.07 min Scan# 1506  
Delta R.T. -0.04 min  
Lab File: BM009159.D  
Acq: 09 Mar 2017 23:21

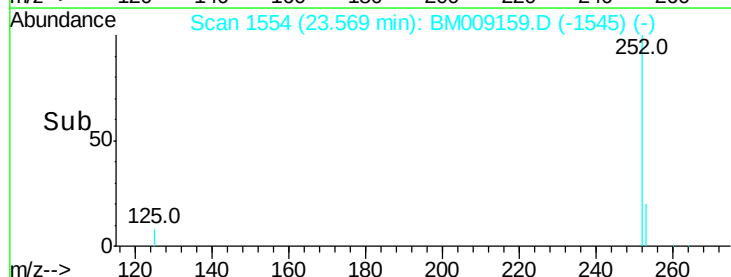
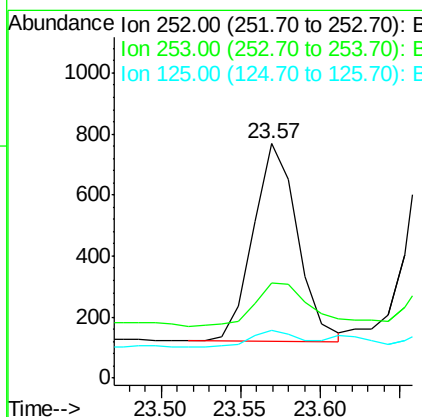
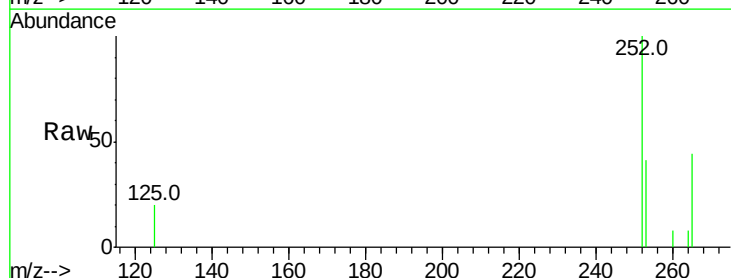
Instrument :  
BNA\_M  
ClientSampleId :  
C0AK3DL

Tot Ion:252 Resp: 3171  
Ion Ratio Lower Upper  
252 100  
253 35.8 24.5 36.7  
125 18.7 13.7 20.5

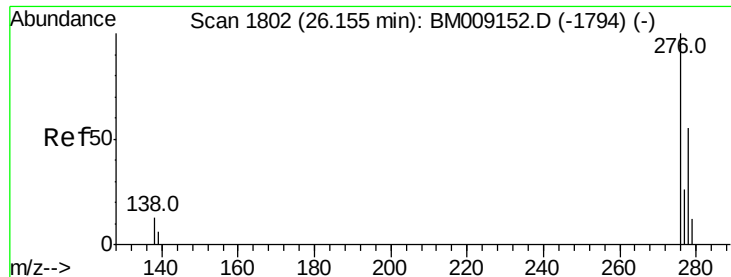


#23  
Benzo(a)pyrene  
Concen: 0.27 ng/ul  
RT: 23.57 min Scan# 1554  
Delta R.T. -0.10 min  
Lab File: BM009159.D  
Acq: 09 Mar 2017 23:21

Tgt Ion:252 Resp: 1253  
Ion Ratio Lower Upper  
252 100  
253 40.7 28.5 42.7  
125 20.2 18.1 27.1



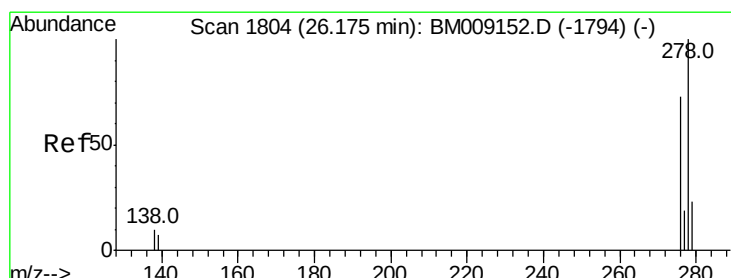
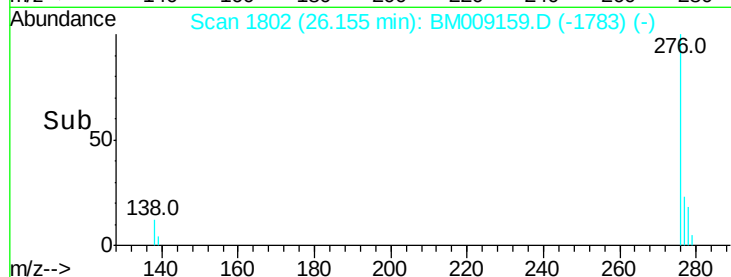
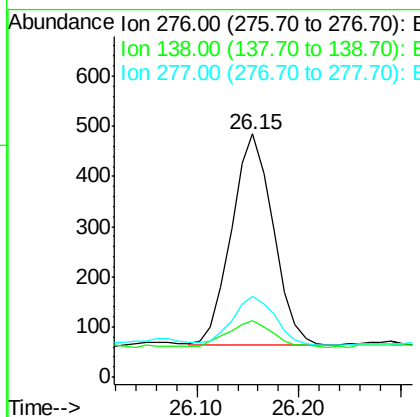
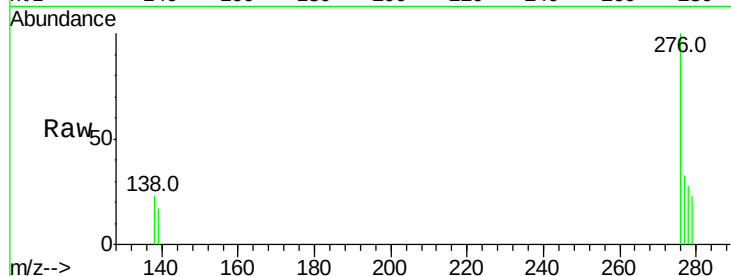




#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.20 ng/ul  
 RT: 26.15 min Scan# 1802  
 Delta R.T. 0.00 min  
 Lab File: BM009159.D  
 Acq: 09 Mar 2017 23:21

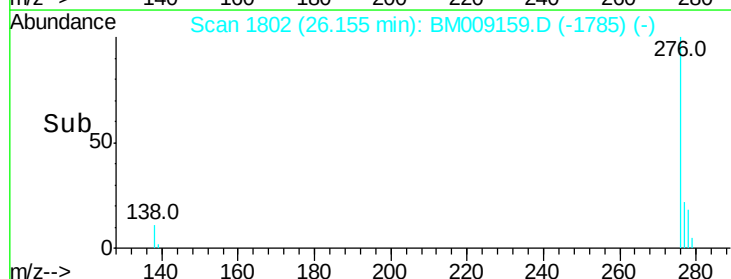
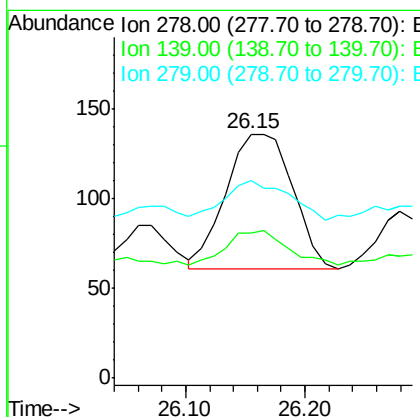
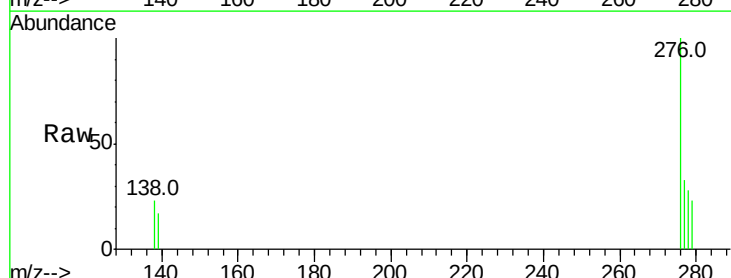
Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AK3DL

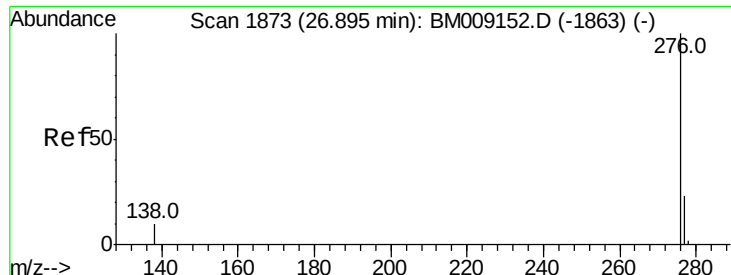
Tot Ion:276 Resp: 1203  
 Ion Ratio Lower Upper  
 276 100  
 138 13.1 19.1 28.7#  
 277 23.3 19.6 29.4



#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.06 ng/ul  
 RT: 26.15 min Scan# 1802  
 Delta R.T. -0.02 min  
 Lab File: BM009159.D  
 Acq: 09 Mar 2017 23:21

Tgt Ion:278 Resp: 291  
 Ion Ratio Lower Upper  
 278 100  
 139 59.6 17.4 26.0#  
 279 80.9 25.9 38.9#





#26

Benzo(a,h,i)perylene

Concen: 0.22 ng/ul

RT: 26.89 min Scan# 1873

Delta R.T. 0.00 min

Lab File: BM009159.D

Acq: 09 Mar 2017 23:21

Instrument :

BNA\_M

ClientSampleId :

C0AK3DL

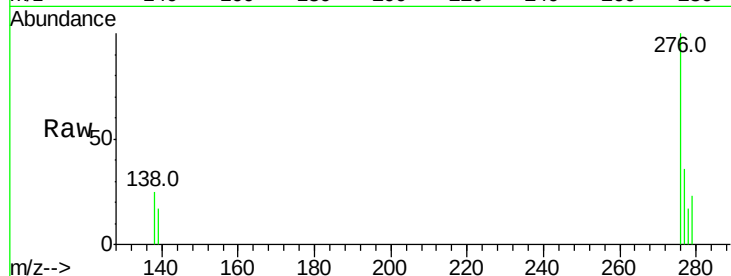
Tot Ion:276 Resp: 1109

Ion Ratio Lower Upper

276 100

277 36.0 21.8 32.8#

138 25.1 20.5 30.7



Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 277.00 (276.70 to 277.70): E  
Ion 138.00 (137.70 to 138.70): E

