

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM040816\  
 Data File : BM004930.D  
 Acq On : 08 Apr 2016 14:31  
 Operator : UM/SJ  
 Sample : SSTDCCC0.4EC  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

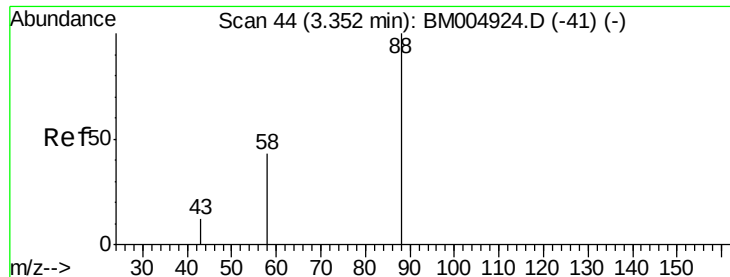
Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD0.438

Quant Time: Apr 09 01:21:36 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM032516.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Apr 09 01:17:35 2016  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.84  | 152  | 1271     | 0.40   | ng/ul  | 0.02     |
| 4) Naphthalene-d8           | 10.61 | 136  | 5208     | 0.40   | ng/ul  | 0.00     |
| 8) Acenaphthene-d10         | 14.45 | 164  | 2927     | 0.40   | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 17.19 | 188  | 6994     | 0.40   | ng/ul  | 0.00     |
| 18) Chrysene-d12            | 21.39 | 240  | 7935     | 0.40   | ng/ul  | 0.00     |
| 22) Perylene-d12            | 23.68 | 264  | 6811     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 2) 1,4-Dioxane-d8           | 3.32  | 96   | 1226     | 2.14   | ng/uL  | 0.02     |
| 6) 2-Methylnaphthalene-d10  | 12.21 | 152  | 2622     | 0.36   | ng/ul  | 0.00     |
| 16) Fluoranthene-d10        | 19.23 | 212  | 6816     | 0.41   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 3) 1,4-Dioxane              | 3.35  | 88   | 1434     | 2.06   | ng/ul# | 21       |
| 5) Naphthalene              | 10.66 | 128  | 5005     | 0.40   | ng/ul# | 95       |
| 7) 2-Methylnaphthalene      | 12.28 | 142  | 3469     | 0.38   | ng/ul  | 98       |
| 9) Acenaphthylene           | 14.18 | 152  | 4899     | 0.36   | ng/ul# | 91       |
| 10) Acenaphthene            | 14.52 | 153  | 3963     | 0.42   | ng/ul  | 98       |
| 11) Fluorene                | 15.51 | 166  | 4652     | 0.41   | ng/ul  | 98       |
| 13) Pentachlorophenol       | 16.85 | 266  | 465      | 0.27   | ng/ul  | 94       |
| 14) Phenanthrene            | 17.24 | 178  | 8089     | 0.41   | ng/ul  | 98       |
| 15) Anthracene              | 17.33 | 178  | 7042     | 0.38   | ng/ul  | 98       |
| 17) Fluoranthene            | 19.27 | 202  | 9533     | 0.43   | ng/ul  | 93       |
| 19) Pyrene                  | 19.63 | 202  | 9898     | 0.36   | ng/ul# | 93       |
| 20) Benzo(a)anthracene      | 21.37 | 228  | 9024     | 0.37   | ng/ul# | 90       |
| 21) Chrysene                | 21.37 | 228  | 9024     | 0.38   | ng/ul  | 94       |
| 23) Benzo(b)fluoranthene    | 22.98 | 252  | 9073     | 0.40   | ng/ul  | 95       |
| 24) Benzo(k)fluoranthene    | 23.03 | 252  | 9140     | 0.43   | ng/ul# | 95       |
| 25) Benzo(a)pyrene          | 23.58 | 252  | 8486     | 0.40   | ng/ul  | 95       |
| 26) Indeno(1,2,3-cd)pyrene  | 25.99 | 276  | 8188     | 0.42   | ng/ul# | 83       |
| 27) Dibenzo(a,h)anthracene  | 26.02 | 278  | 6610     | 0.43   | ng/ul# | 91       |
| 28) Benzo(g,h,i)perylene    | 26.71 | 276  | 6911     | 0.43   | ng/ul  | 93       |

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





#3

1,4-Dioxane

Concen: 2.06 ng/ul

RT: 3.35 min Scan# 44

Delta R.T. 0.00 min

Lab File: BM004930.D

Acq: 08 Apr 2016 14:31

Instrument :

BNA\_M

ClientSampleId :

SSTD0.438

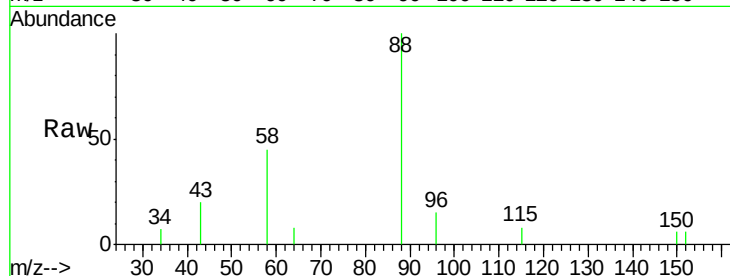
Tgt Ion: 88 Resp: 1434

Ion Ratio Lower Upper

88 100

58 57.7 8.0 12.0#

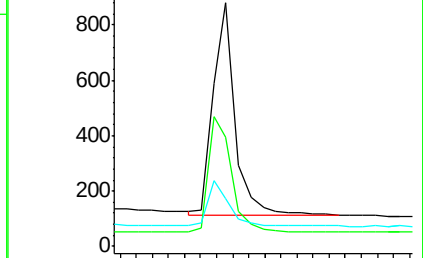
43 20.6 8.0 12.0#



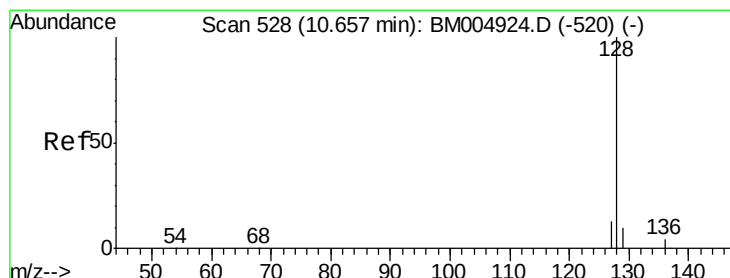
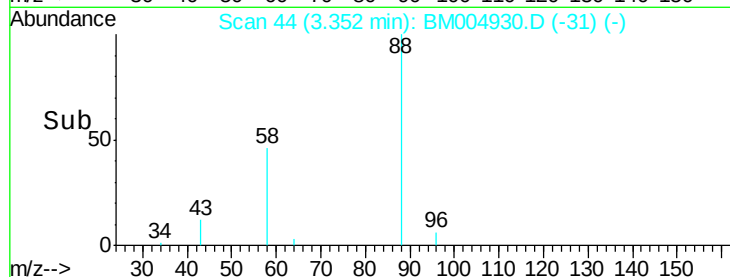
Abundance Ion 88.00 (87.70 to 88.70): BM004924.D (-41) (-)

Ion 58.00 (57.70 to 58.70): BM004924.D (-41) (-)

Ion 43.00 (42.70 to 43.70): BM004924.D (-41) (-)



Time-->



#5

Naphthalene

Concen: 0.40 ng/ul

RT: 10.66 min Scan# 528

Delta R.T. 0.00 min

Lab File: BM004930.D

Acq: 08 Apr 2016 14:31

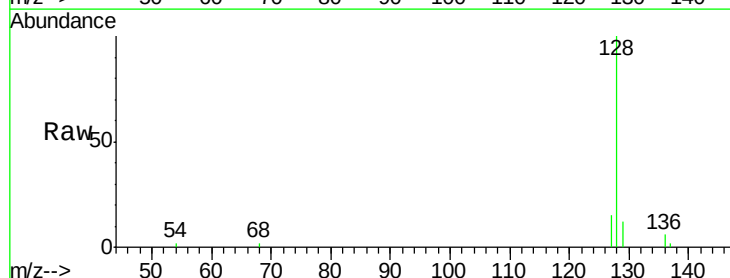
Tgt Ion: 128 Resp: 5005

Ion Ratio Lower Upper

128 100

129 12.2 9.0 13.6

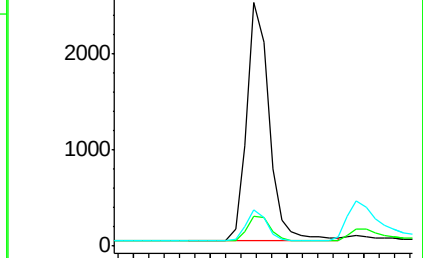
127 15.1 9.6 14.4#



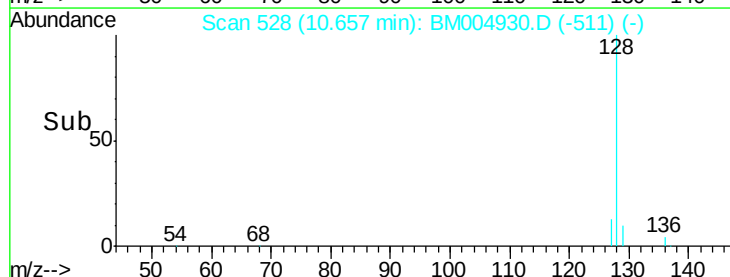
Abundance Ion 128.00 (127.70 to 128.70): BM004924.D (-520) (-)

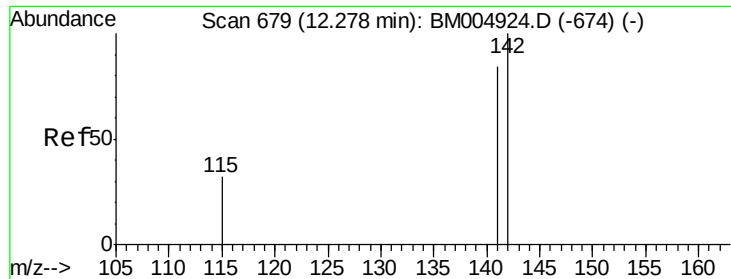
Ion 129.00 (128.70 to 129.70): BM004924.D (-520) (-)

Ion 127.00 (126.70 to 127.70): BM004924.D (-520) (-)



Time-->





#7

2-Methylnaphthalene

Concen: 0.38 ng/ul

RT: 12.28 min Scan# 679

Delta R.T. 0.00 min

Lab File: BM004930.D

Acq: 08 Apr 2016 14:31

Instrument :

BNA\_M

ClientSampleId :

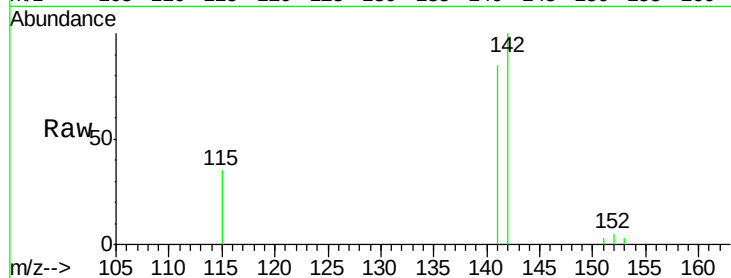
SSTD0.438

Tgt Ion:142 Resp: 3469

Ion Ratio Lower Upper

142 100

141 90.1 70.3 105.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

2000

1500

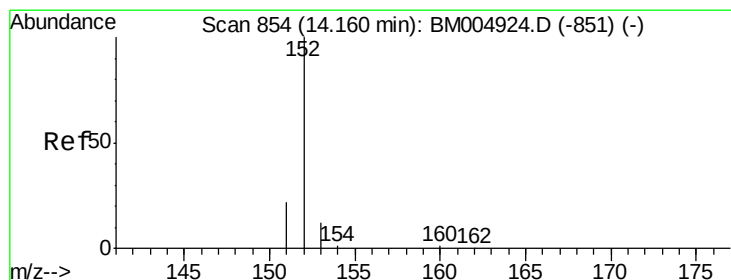
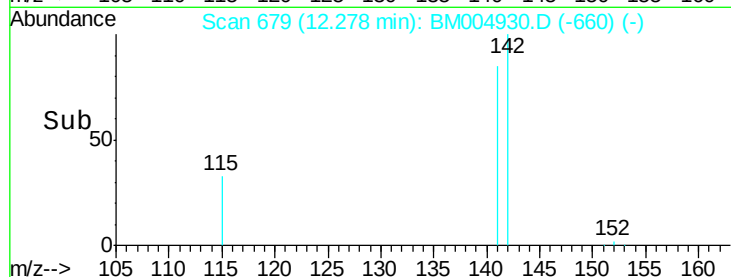
1000

500

0

12.20 12.30 12.40 12.50

Time-->



#9

Acenaphthylene

Concen: 0.36 ng/ul

RT: 14.18 min Scan# 855

Delta R.T. 0.02 min

Lab File: BM004930.D

Acq: 08 Apr 2016 14:31

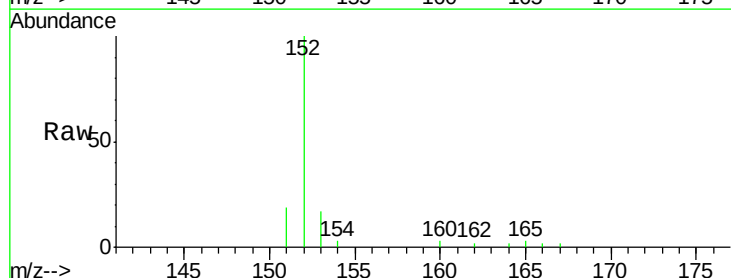
Tgt Ion:152 Resp: 4899

Ion Ratio Lower Upper

152 100

151 18.5 17.6 26.4

153 16.5 9.7 14.5#



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

3000

2500

2000

1500

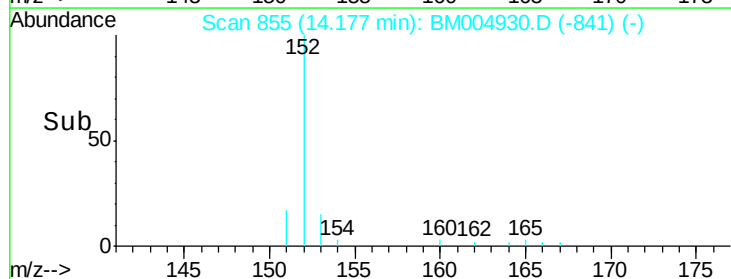
1000

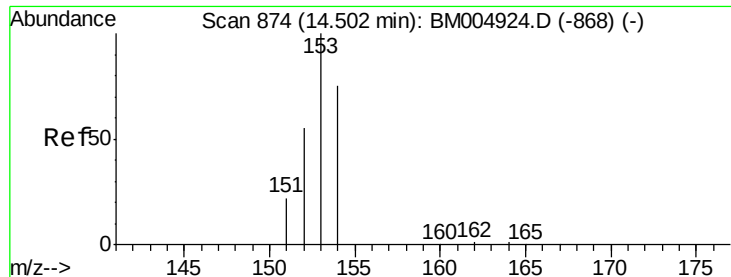
500

0

14.10 14.20 14.30

Time-->





#10

Acenaphthene

Concen: 0.42 ng/ul

RT: 14.52 min Scan# 875

Delta R.T. 0.02 min

Lab File: BM004930.D

Acq: 08 Apr 2016 14:31

Instrument :

BNA\_M

ClientSampleId :

SSTD0.438

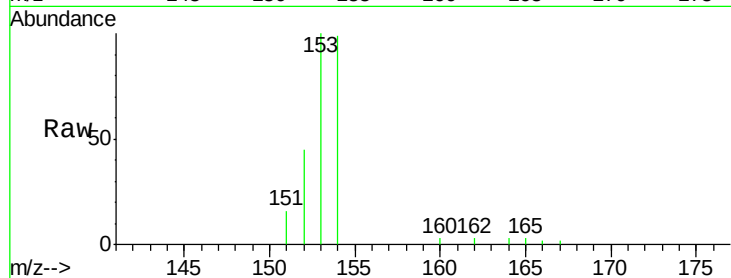
Tgt Ion:153 Resp: 3963

Ion Ratio Lower Upper

153 100

152 44.7 33.9 50.9

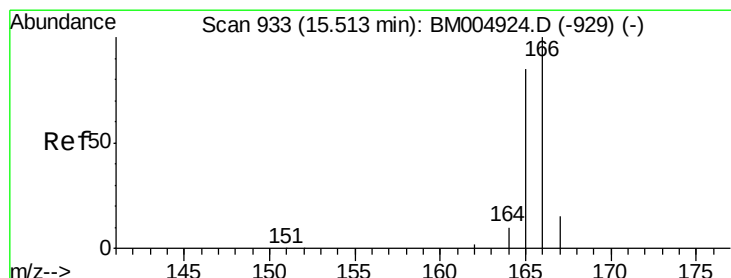
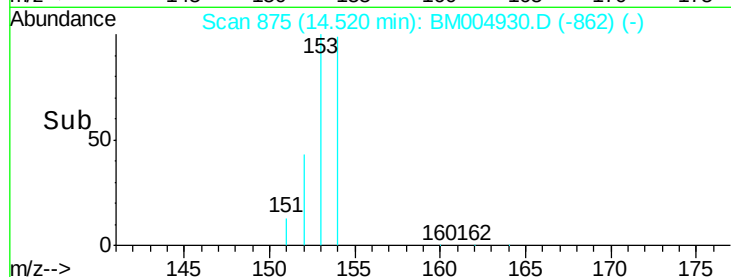
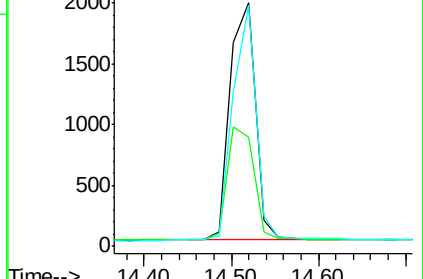
154 99.1 80.6 121.0



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#11

Fluorene

Concen: 0.41 ng/ul

RT: 15.51 min Scan# 933

Delta R.T. 0.00 min

Lab File: BM004930.D

Acq: 08 Apr 2016 14:31

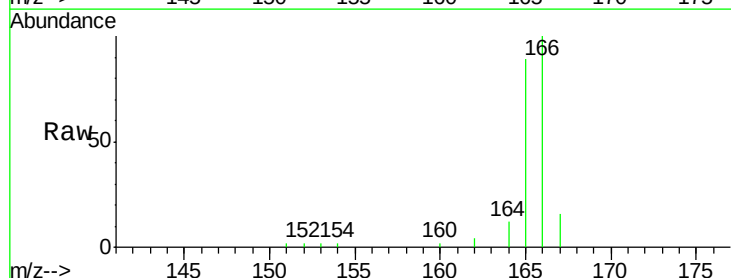
Tgt Ion:166 Resp: 4652

Ion Ratio Lower Upper

166 100

165 88.9 69.6 104.4

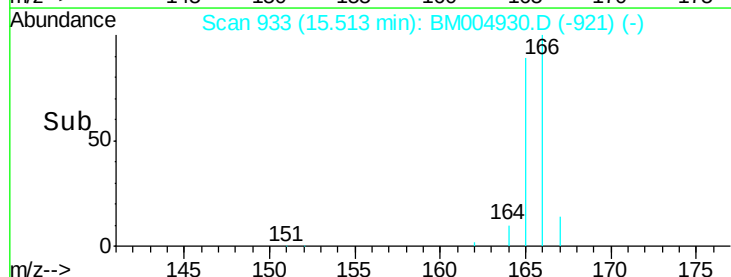
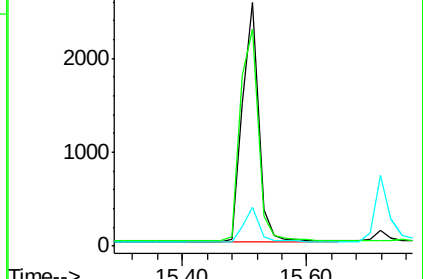
167 15.9 11.9 17.9

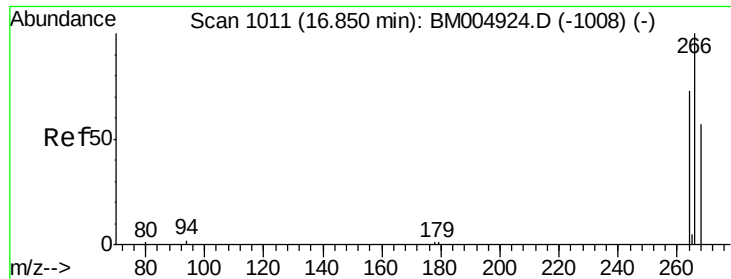


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

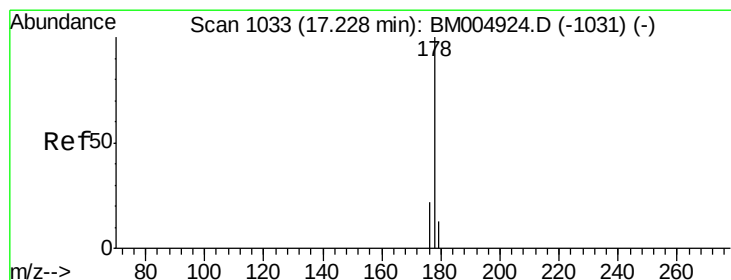
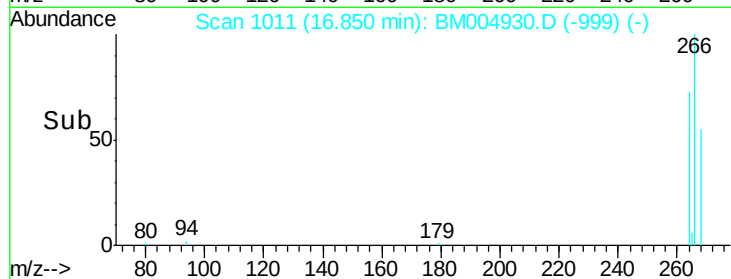
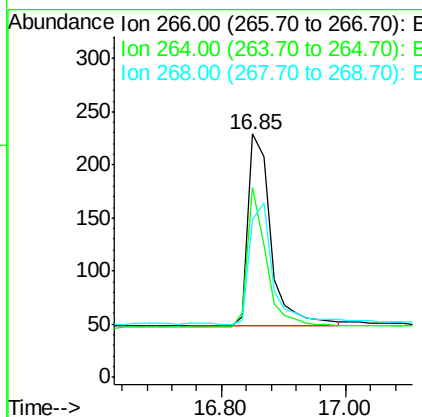
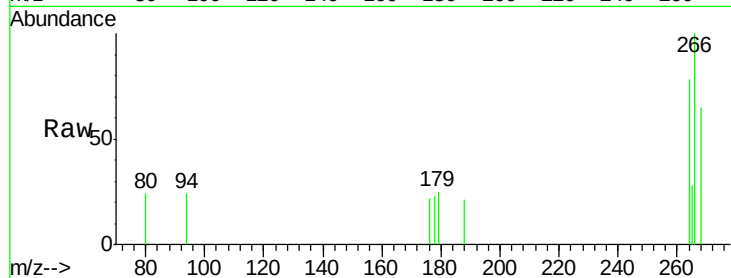




#13  
 Pentachlorophenol  
 Concen: 0.27 ng/ul  
 RT: 16.85 min Scan# 1011  
 Delta R.T. 0.00 min  
 Lab File: BM004930.D  
 Acq: 08 Apr 2016 14:31

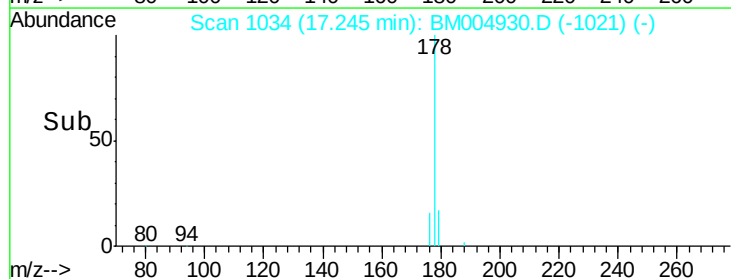
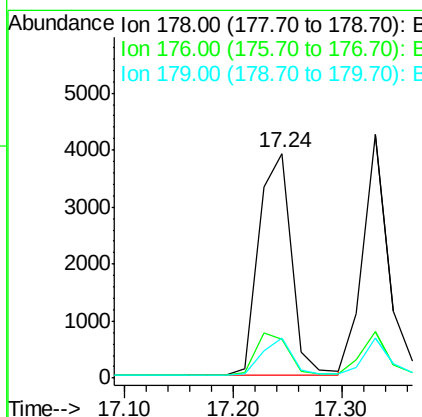
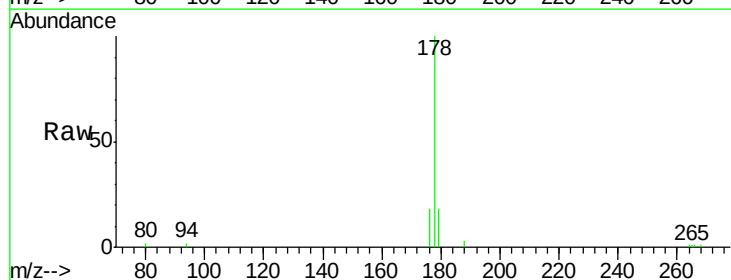
Instrument :  
 BNA\_M  
 ClientSampleId :  
 SST0.438

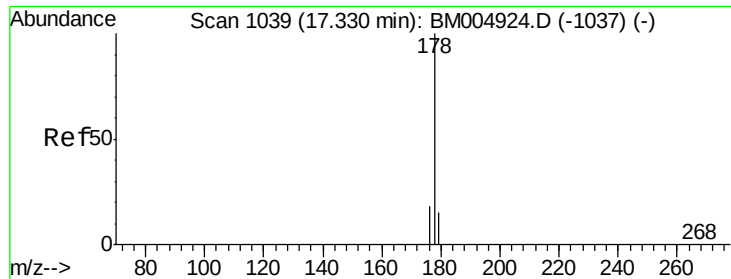
Tgt Ion: 266 Resp: 465  
 Ion Ratio Lower Upper  
 266 100  
 264 60.9 51.8 77.8  
 268 63.2 46.8 70.2



#14  
 Phenanthrene  
 Concen: 0.41 ng/ul  
 RT: 17.24 min Scan# 1034  
 Delta R.T. 0.02 min  
 Lab File: BM004930.D  
 Acq: 08 Apr 2016 14:31

Tgt Ion: 178 Resp: 8089  
 Ion Ratio Lower Upper  
 178 100  
 176 17.5 13.0 19.4  
 179 18.0 14.2 21.2





#15

Anthracene

Concen: 0.38 ng/ul

RT: 17.33 min Scan# 1039

Delta R.T. 0.00 min

Lab File: BM004930.D

Acq: 08 Apr 2016 14:31

Instrument :

BNA\_M

ClientSampleId :

SSTD0.438

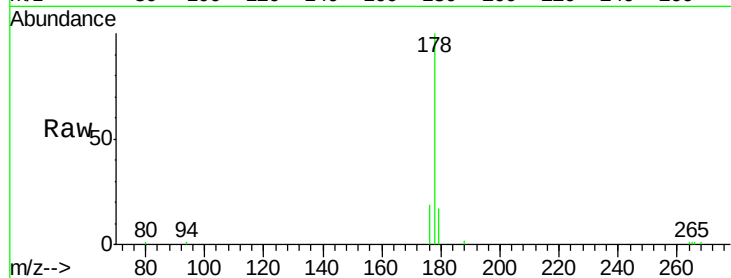
Tgt Ion:178 Resp: 7042

Ion Ratio Lower Upper

178 100

176 18.9 14.0 21.0

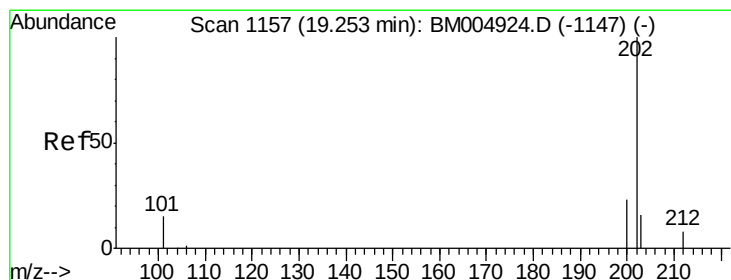
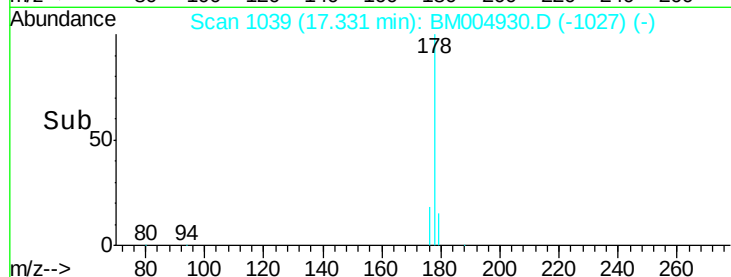
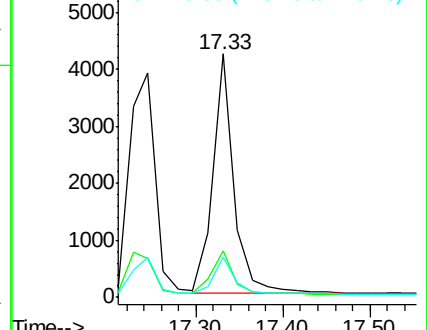
179 16.5 12.9 19.3



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



#17

Fluoranthene

Concen: 0.43 ng/ul

RT: 19.27 min Scan# 1158

Delta R.T. 0.01 min

Lab File: BM004930.D

Acq: 08 Apr 2016 14:31

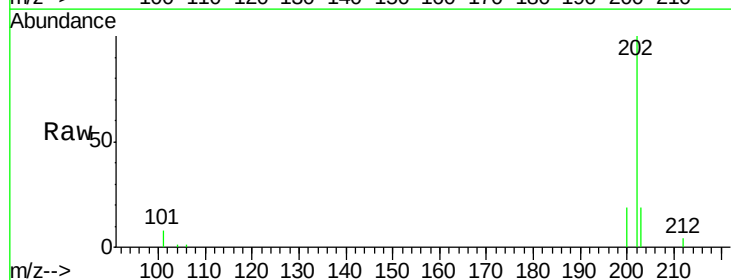
Tgt Ion:202 Resp: 9533

Ion Ratio Lower Upper

202 100

101 7.6 0.0 29.6

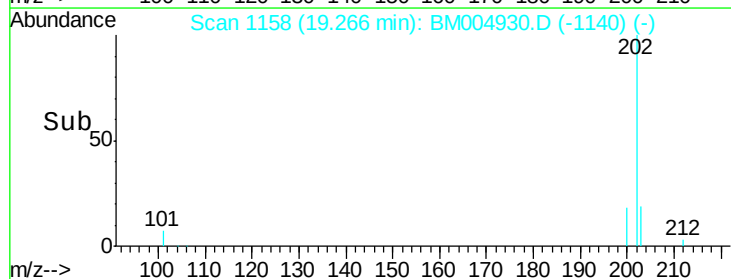
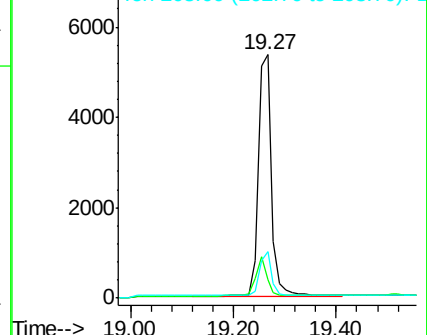
203 19.4 0.0 36.3

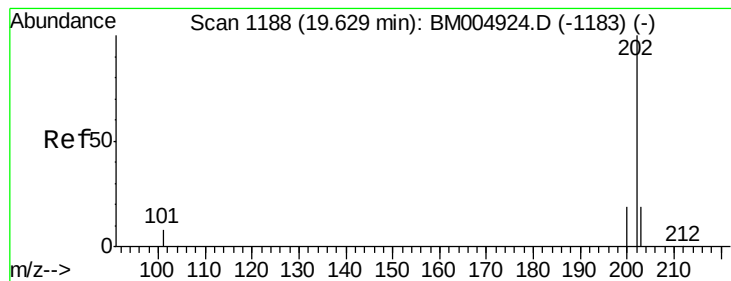


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Pyrene

Concen: 0.36 ng/ul

RT: 19.63 min Scan# 1188

Delta R.T. 0.00 min

Lab File: BM004930.D

Acq: 08 Apr 2016 14:31

Instrument :

BNA\_M

ClientSampleId :

SSTD0.438

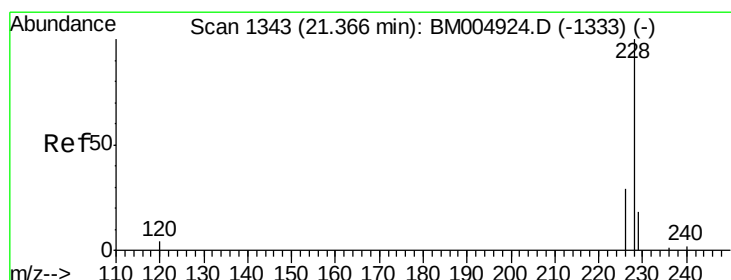
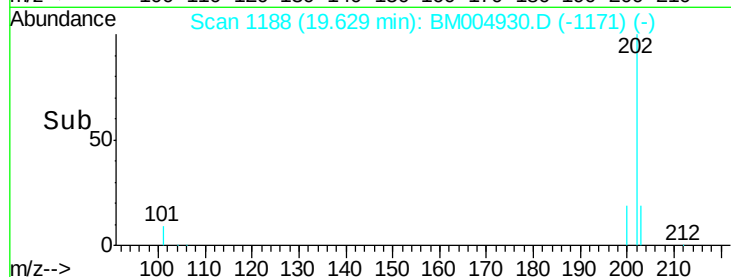
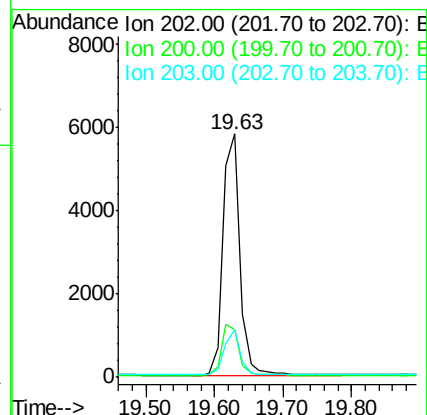
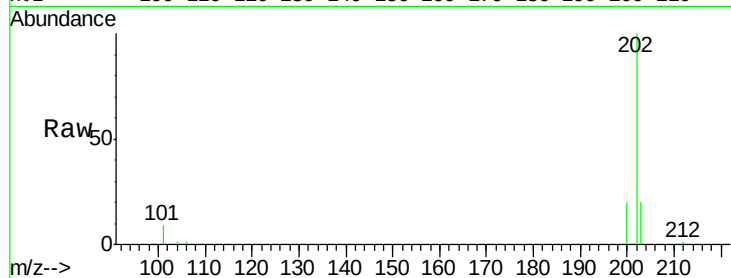
Tgt Ion:202 Resp: 9898

Ion Ratio Lower Upper

202 100

200 19.6 17.8 26.8

203 19.5 12.8 19.2#



#20

Benzo(a)anthracene

Concen: 0.37 ng/ul

RT: 21.37 min Scan# 1343

Delta R.T. 0.00 min

Lab File: BM004930.D

Acq: 08 Apr 2016 14:31

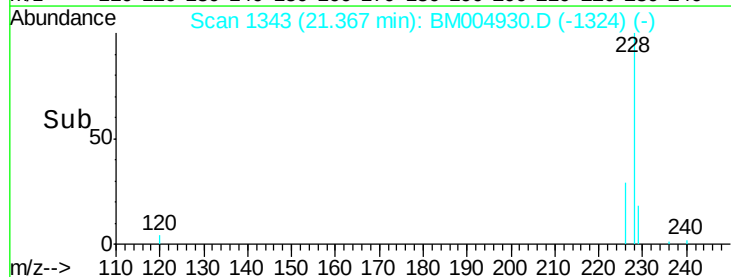
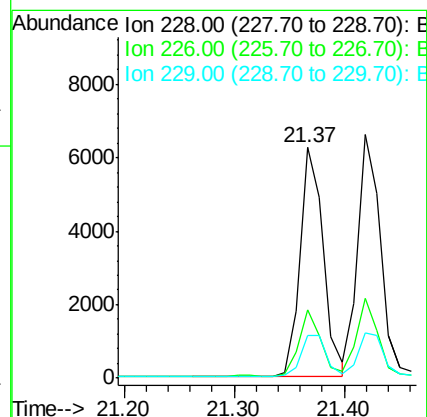
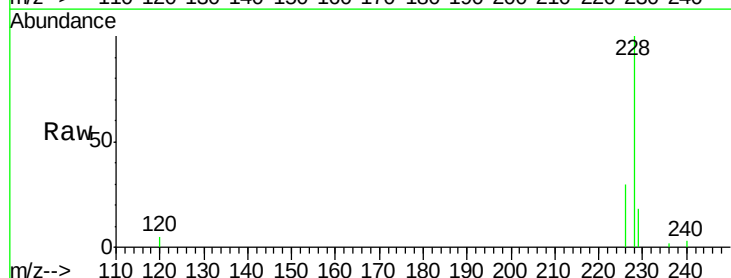
Tgt Ion:228 Resp: 9024

Ion Ratio Lower Upper

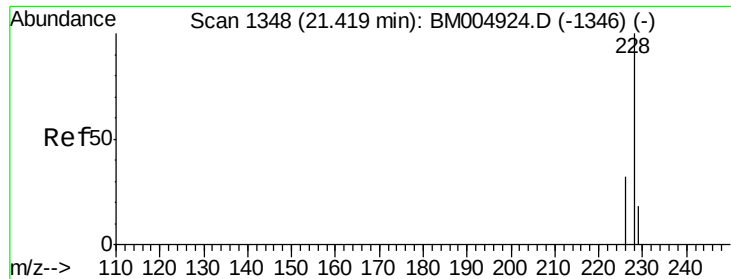
228 100

226 29.8 18.8 28.2#

229 18.3 17.1 25.7







#21

Chrysene

Concen: 0.38 ng/ul

RT: 21.37 min Scan# 1343

Delta R.T. -0.05 min

Lab File: BM004930.D

Acq: 08 Apr 2016 14:31

Instrument :

BNA\_M

ClientSampleId :

SSTD0.438

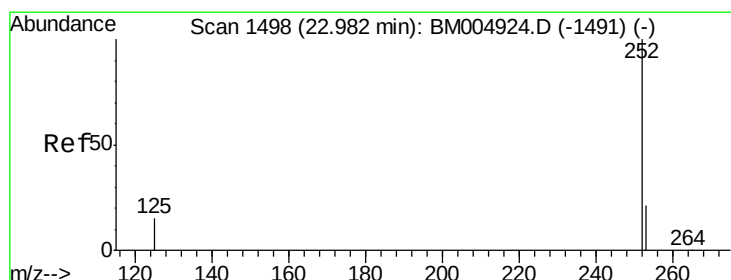
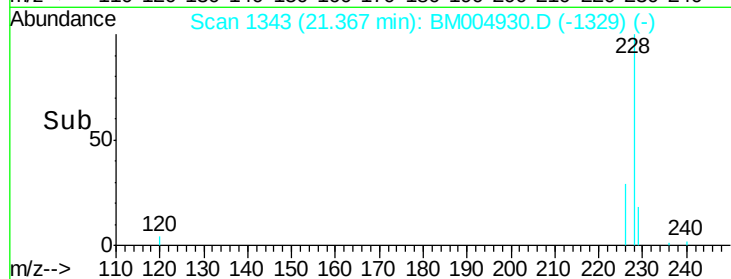
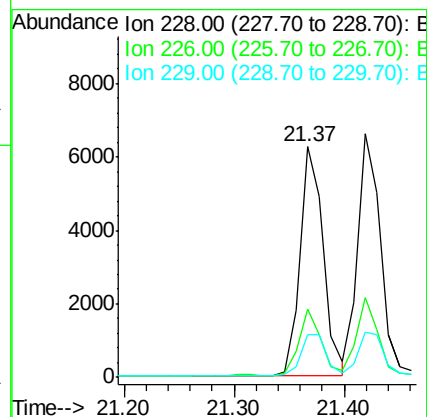
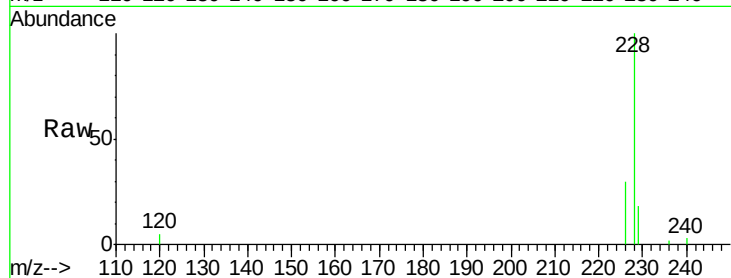
Tgt Ion:228 Resp: 9024

Ion Ratio Lower Upper

228 100

226 29.8 21.2 31.8

229 18.3 17.0 25.6



#23

Benzo(b)fluoranthene

Concen: 0.40 ng/ul

RT: 22.98 min Scan# 1498

Delta R.T. 0.00 min

Lab File: BM004930.D

Acq: 08 Apr 2016 14:31

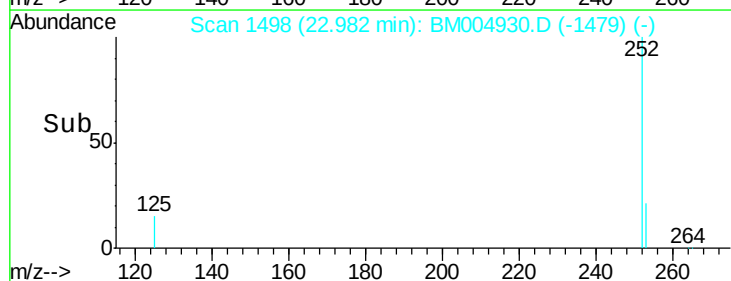
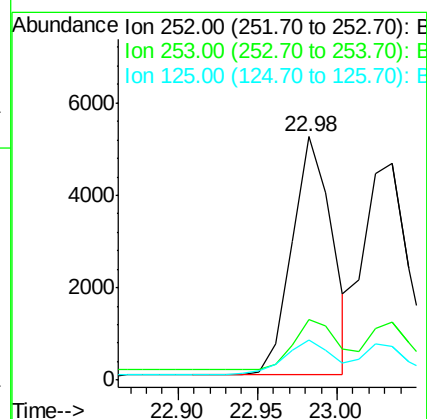
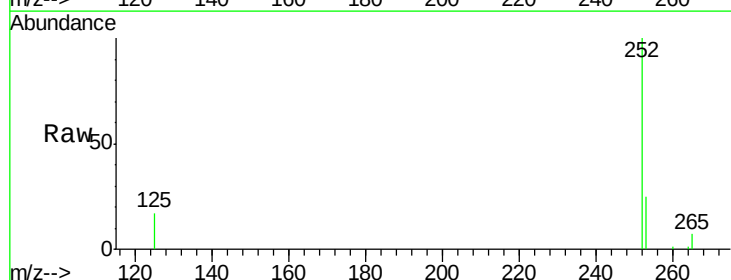
Tgt Ion:252 Resp: 9073

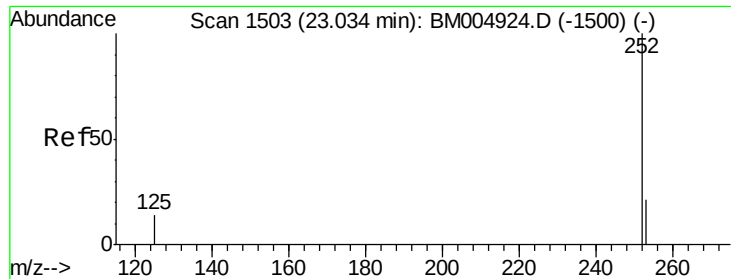
Ion Ratio Lower Upper

252 100

253 25.1 0.0 45.4

125 16.7 0.0 28.8





#24

Benzo(k)fluoranthene

Concen: 0.43 ng/ul

RT: 23.03 min Scan# 1503

Delta R.T. 0.00 min

Lab File: BM004930.D

Acq: 08 Apr 2016 14:31

Instrument :

BNA\_M

ClientSampleId :

SSTD0.438

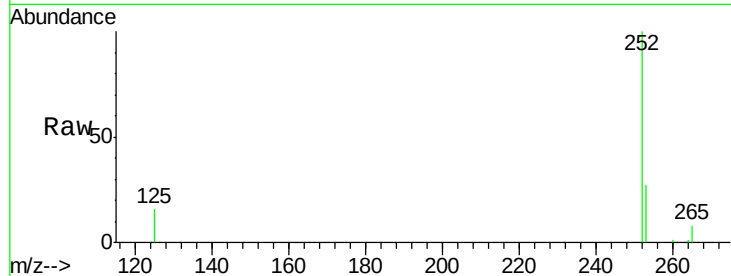
Tgt Ion:252 Resp: 9140

Ion Ratio Lower Upper

252 100

253 26.9 19.8 29.8

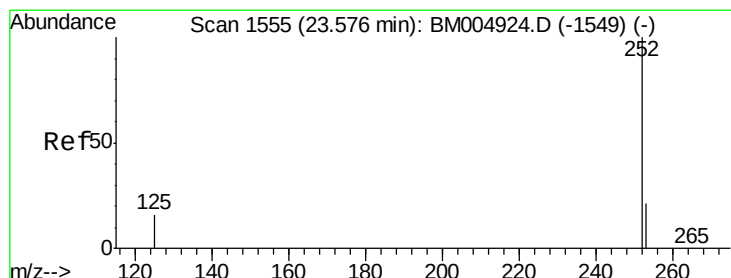
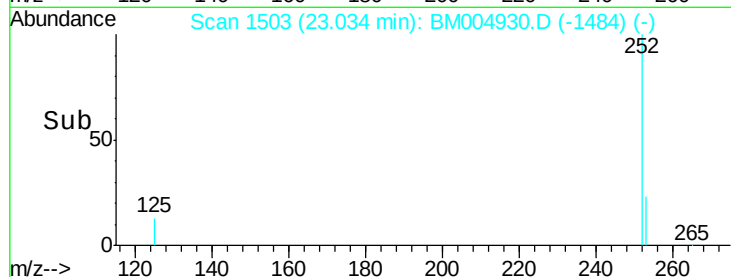
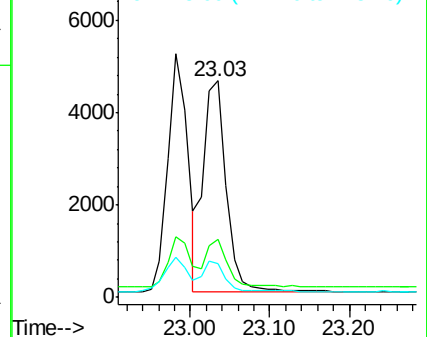
125 15.8 10.4 15.6#



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

Benzo(a)pyrene

Concen: 0.40 ng/ul

RT: 23.58 min Scan# 1555

Delta R.T. 0.00 min

Lab File: BM004930.D

Acq: 08 Apr 2016 14:31

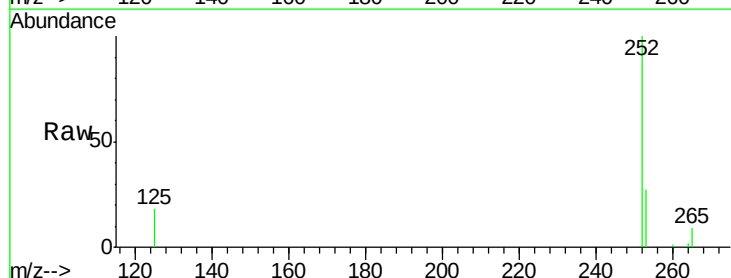
Tgt Ion:252 Resp: 8486

Ion Ratio Lower Upper

252 100

253 26.6 19.4 29.2

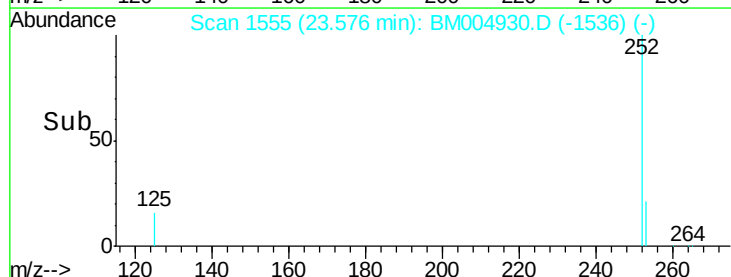
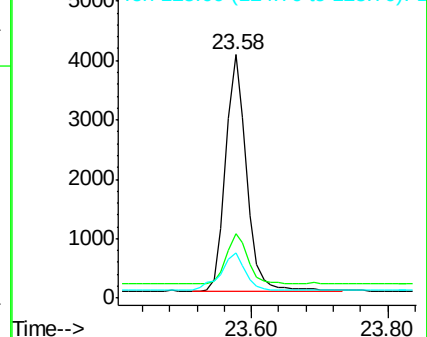
125 18.4 12.7 19.1

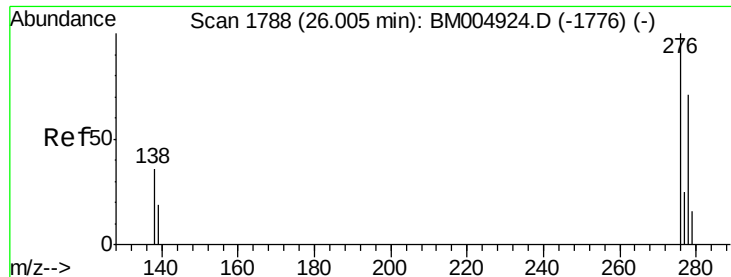


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#26

Indeno(1,2,3-cd)pyrene

Concen: 0.42 ng/ul

RT: 25.99 min Scan# 1787

Delta R.T. -0.01 min

Lab File: BM004930.D

Acq: 08 Apr 2016 14:31

Instrument :

BNA\_M

ClientSampleId :

SSTD0.438

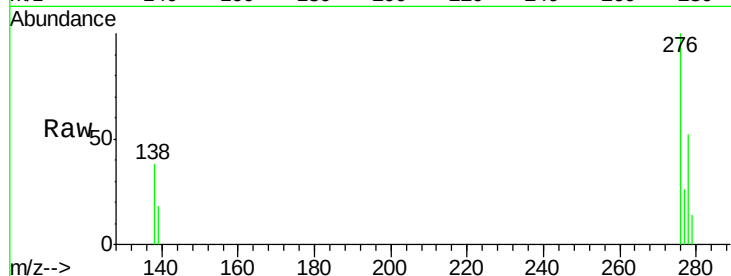
Tgt Ion:276 Resp: 8188

Ion Ratio Lower Upper

276 100

138 37.7 16.3 24.5#

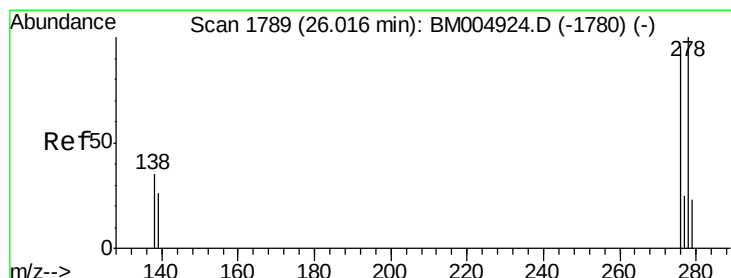
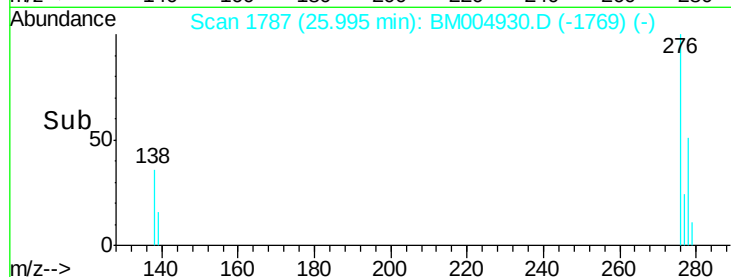
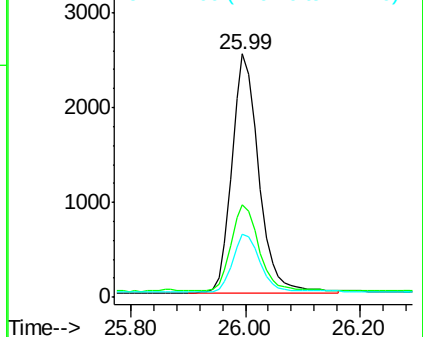
277 24.9 19.8 29.8



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



#27

Dibenzo(a,h)anthracene

Concen: 0.43 ng/ul

RT: 26.02 min Scan# 1789

Delta R.T. 0.00 min

Lab File: BM004930.D

Acq: 08 Apr 2016 14:31

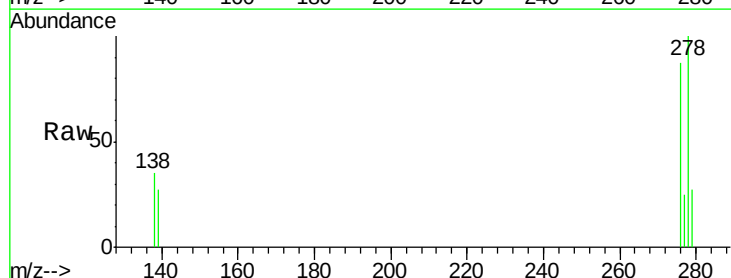
Tgt Ion:278 Resp: 6610

Ion Ratio Lower Upper

278 100

139 27.0 16.4 24.6#

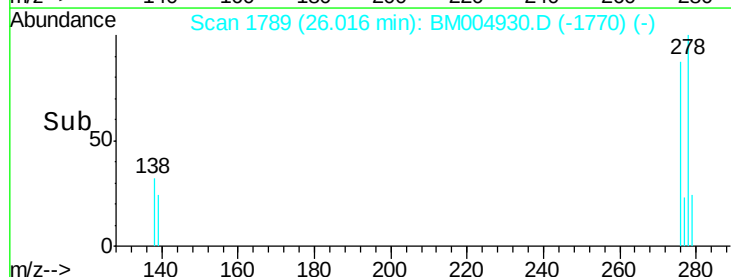
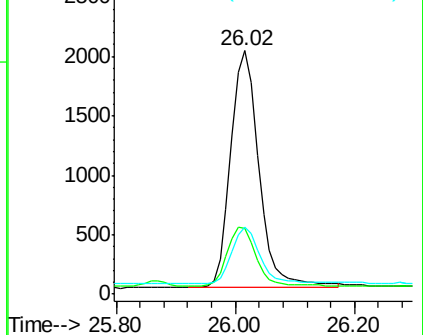
279 27.4 20.2 30.2

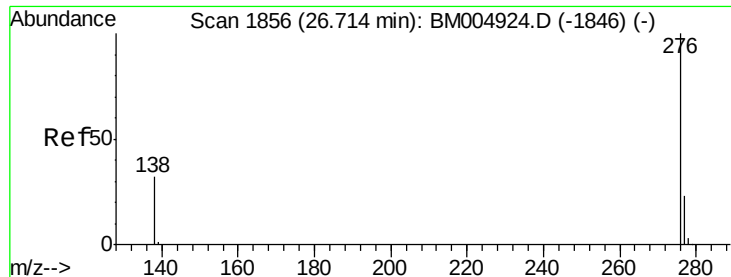


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#28

Benzo(g,h,i)perylene

Concen: 0.43 ng/ul

RT: 26.71 min Scan# 1856

Delta R.T. 0.00 min

Lab File: BM004930.D

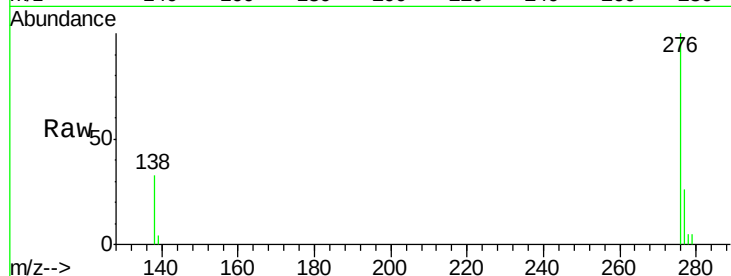
Acq: 08 Apr 2016 14:31

Instrument :

BNA\_M

ClientSampleId :

SSTD0.438



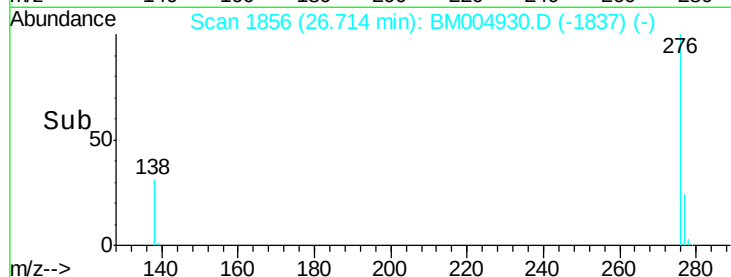
Tgt Ion: 276 Resp: 6911

Ion Ratio Lower Upper

276 100

277 25.8 18.9 28.3

138 33.1 22.5 33.7



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

