

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM112216\  
 Data File : BM008010.D  
 Acq On : 23 Nov 2016 00:34  
 Operator : UM/SJ  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD0.449

Quant Time: Nov 23 01:27:06 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 22 16:05:09 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.73  | 152  | 501      | 0.40 | ng/ul | -0.02    |
| 2) Naphthalene-d8         | 10.51 | 136  | 1666     | 0.40 | ng/ul | -0.01    |
| 6) Acenaphthene-d10       | 14.35 | 164  | 1011     | 0.40 | ng/ul | -0.02    |
| 10) Phenanthrene-d10      | 17.11 | 188  | 1954     | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.30 | 240  | 2000     | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.55 | 264  | 1882     | 0.40 | ng/ul | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 12.11 | 152  | 959      | 0.41 | ng/ul | -0.01    |
| 14) Fluoranthene-d10        | 19.14 | 212  | 2156     | 0.39 | ng/ul | 0.00     |

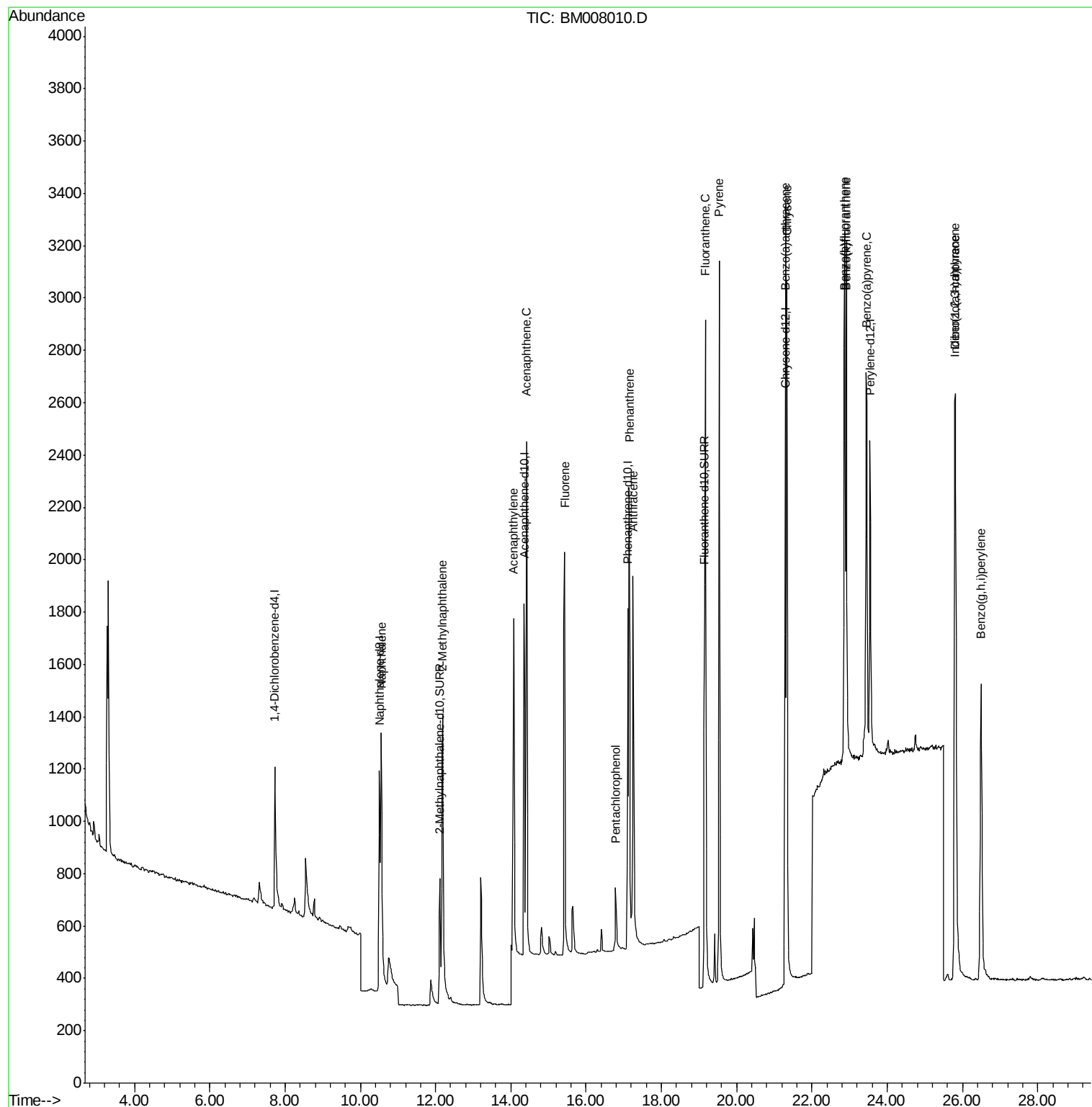
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 10.56 | 128  | 1923     | 0.41 | ng/ul  | 94     |
| 5) 2-Methylnaphthalene     | 12.18 | 142  | 1243     | 0.41 | ng/ul  | 99     |
| 7) Acenaphthylene          | 14.07 | 152  | 1817     | 0.40 | ng/ul  | 97     |
| 8) Acenaphthene            | 14.42 | 153  | 1372     | 0.39 | ng/ul  | 99     |
| 9) Fluorene                | 15.43 | 166  | 1584     | 0.40 | ng/ul  | 98     |
| 11) Pentachlorophenol      | 16.78 | 266  | 281      | 0.41 | ng/ul  | 97     |
| 12) Phenanthrene           | 17.14 | 178  | 2463     | 0.40 | ng/ul  | 98     |
| 13) Anthracene             | 17.24 | 178  | 2353     | 0.41 | ng/ul  | 98     |
| 15) Fluoranthene           | 19.17 | 202  | 2964     | 0.38 | ng/ul  | 99     |
| 17) Pyrene                 | 19.53 | 202  | 3187     | 0.46 | ng/ul  | 98     |
| 18) Benzo(a)anthracene     | 21.28 | 228  | 2816     | 0.46 | ng/ul  | 99     |
| 19) Chrysene               | 21.34 | 228  | 2799     | 0.37 | ng/ul  | 98     |
| 21) Benzo(b)fluoranthene   | 22.87 | 252  | 3003     | 0.40 | ng/ul  | 97     |
| 22) Benzo(k)fluoranthene   | 22.91 | 252  | 2910     | 0.38 | ng/ul  | 96     |
| 23) Benzo(a)pyrene         | 23.44 | 252  | 2811     | 0.40 | ng/ul# | 96     |
| 24) Indeno(1,2,3-cd)pyrene | 25.80 | 276  | 3404     | 0.39 | ng/ul# | 95     |
| 25) Dibenzo(a,h)anthracene | 25.81 | 278  | 2683     | 0.38 | ng/ul  | 97     |
| 26) Benzo(g,h,i)perylene   | 26.50 | 276  | 2944     | 0.38 | ng/ul  | 93     |

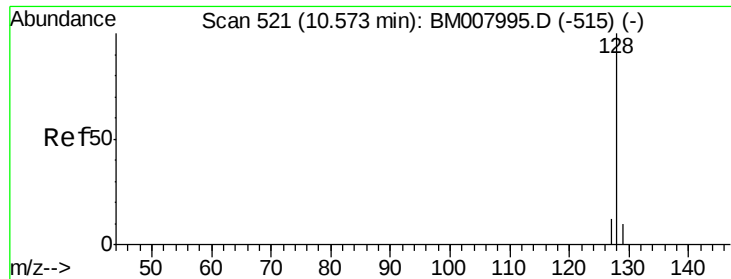
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM112216\  
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Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
SSTD0.449

Quant Time: Nov 23 01:27:06 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 22 16:05:09 2016  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.41 ng/ul

RT: 10.56 min Scan# 520

Delta R.T. -0.01 min

Lab File: BM008010.D

Acq: 23 Nov 2016 00:34

Instrument :

BNA\_M

ClientSampleId :

SSTD0.449

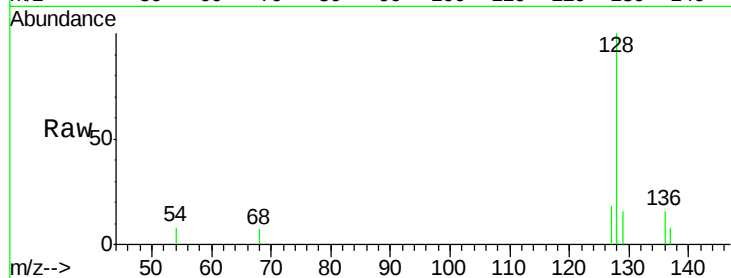
Tgt Ion:128 Resp: 1923

Ion Ratio Lower Upper

128 100

129 16.5 11.3 16.9

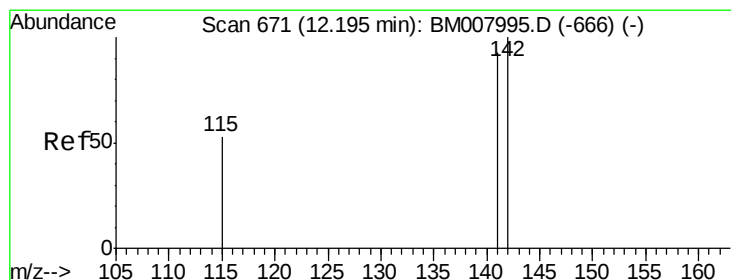
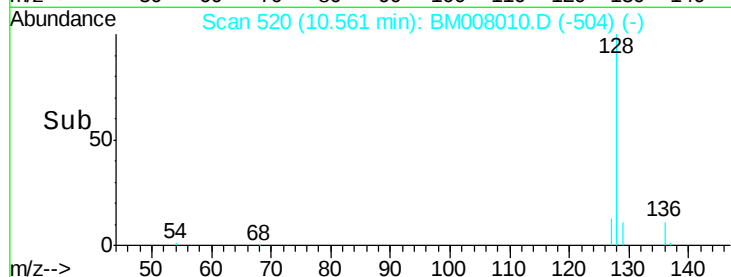
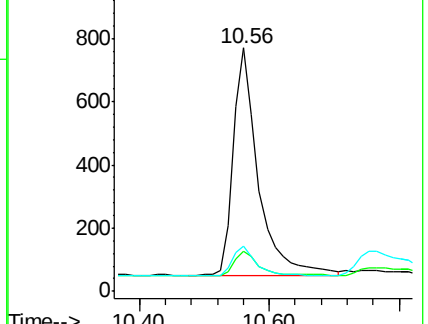
127 18.4 12.8 19.2



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: 0.41 ng/ul

RT: 12.18 min Scan# 670

Delta R.T. -0.01 min

Lab File: BM008010.D

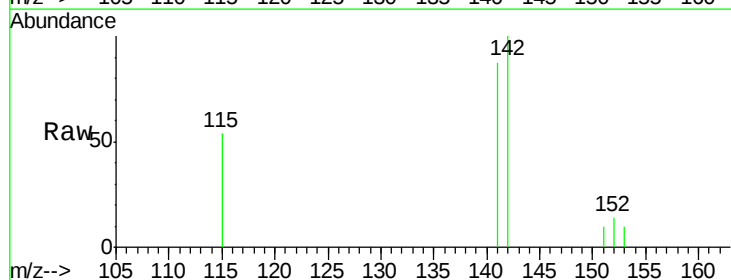
Acq: 23 Nov 2016 00:34

Tgt Ion:142 Resp: 1243

Ion Ratio Lower Upper

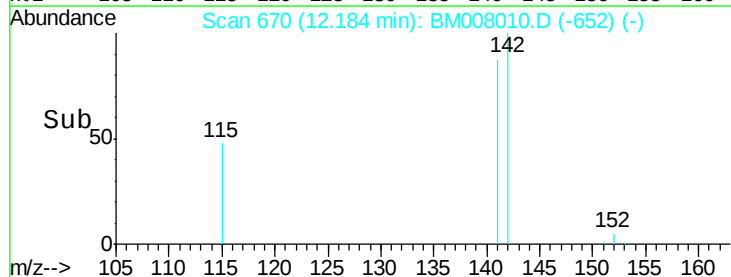
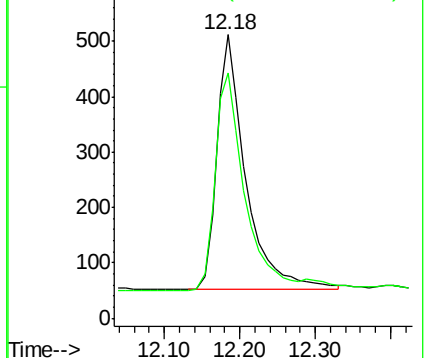
142 100

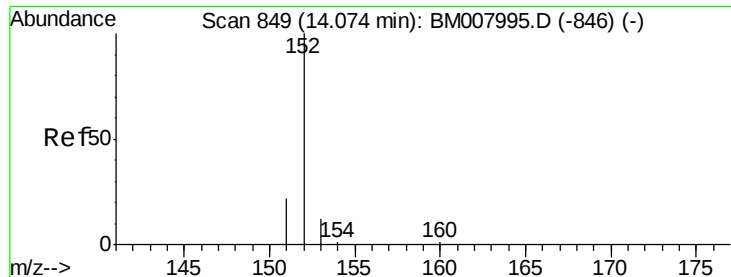
141 91.5 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.40 ng/ul

RT: 14.07 min Scan# 849

Delta R.T. -0.00 min

Lab File: BM008010.D

Acq: 23 Nov 2016 00:34

Instrument :

BNA\_M

ClientSampleId :

SSTD0.449

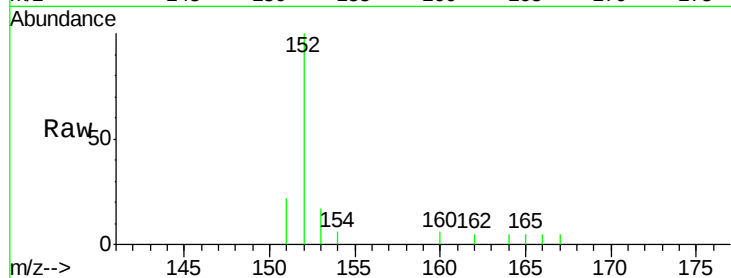
Tgt Ion:152 Resp: 1817

Ion Ratio Lower Upper

152 100

151 22.4 17.1 25.7

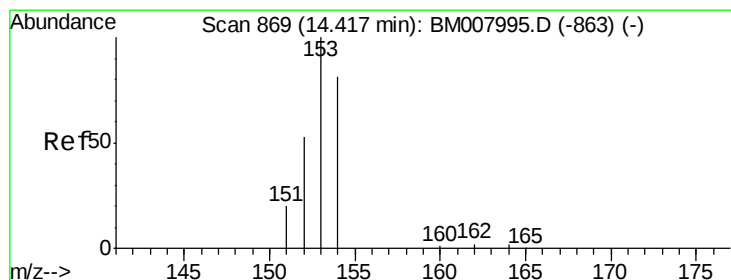
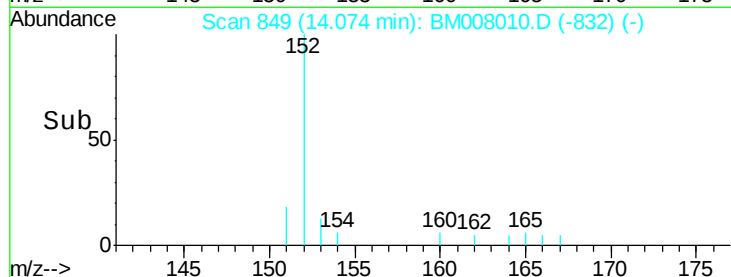
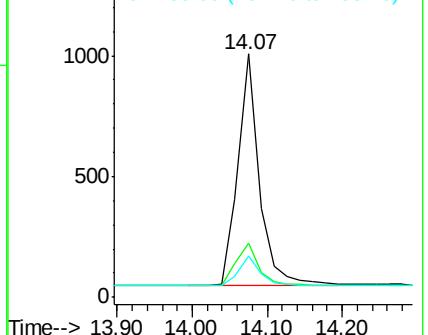
153 17.3 12.8 19.2



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



#8

Acenaphthene

Concen: 0.39 ng/ul

RT: 14.42 min Scan# 869

Delta R.T. -0.00 min

Lab File: BM008010.D

Acq: 23 Nov 2016 00:34

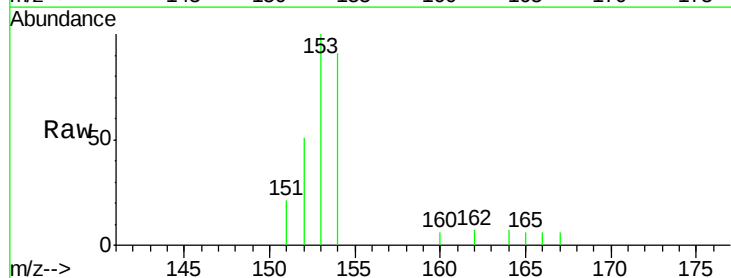
Tgt Ion:153 Resp: 1372

Ion Ratio Lower Upper

153 100

152 50.6 40.3 60.5

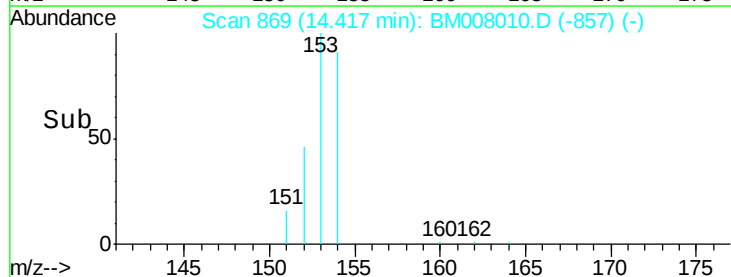
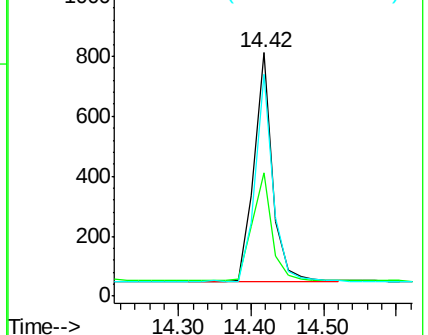
154 91.1 71.4 107.2

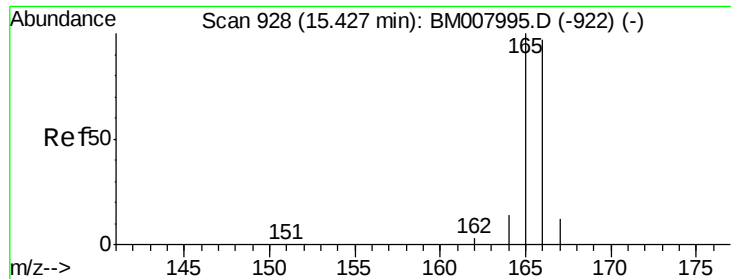


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 0.40 ng/ul

RT: 15.43 min Scan# 928

Delta R.T. -0.00 min

Lab File: BM008010.D

Acq: 23 Nov 2016 00:34

Instrument :

BNA\_M

ClientSampleId :

SSTD0.449

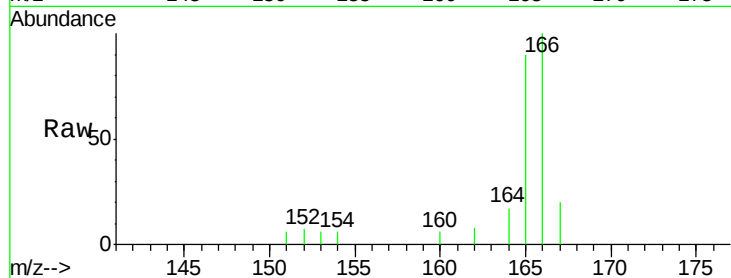
Tgt Ion:166 Resp: 1584

Ion Ratio Lower Upper

166 100

165 90.2 73.4 110.2

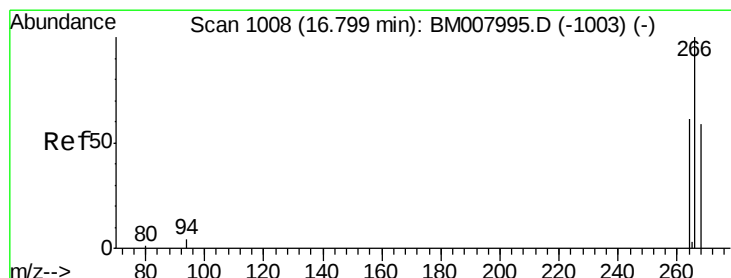
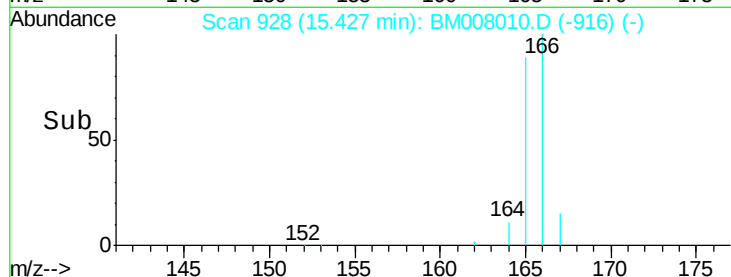
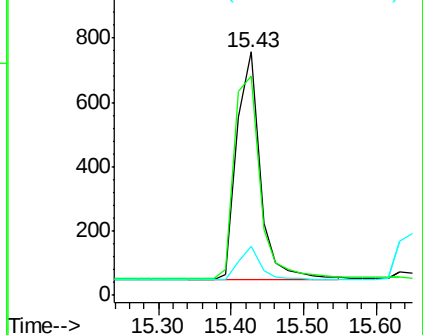
167 20.2 14.6 22.0



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: 0.41 ng/ul

RT: 16.78 min Scan# 1007

Delta R.T. -0.02 min

Lab File: BM008010.D

Acq: 23 Nov 2016 00:34

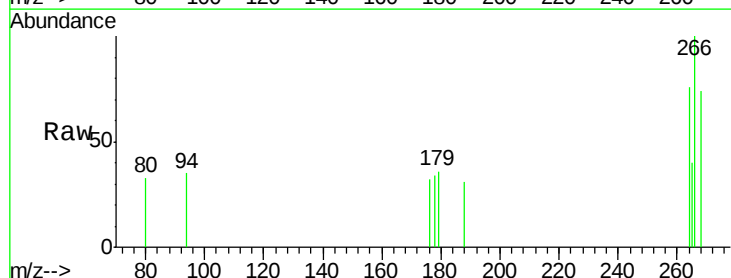
Tgt Ion:266 Resp: 281

Ion Ratio Lower Upper

266 100

264 64.1 47.9 71.9

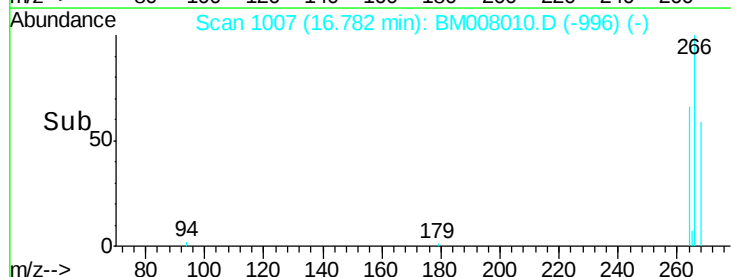
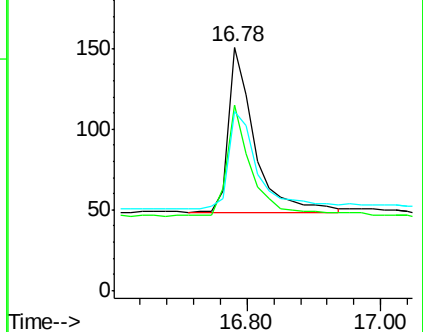
268 63.3 49.8 74.8

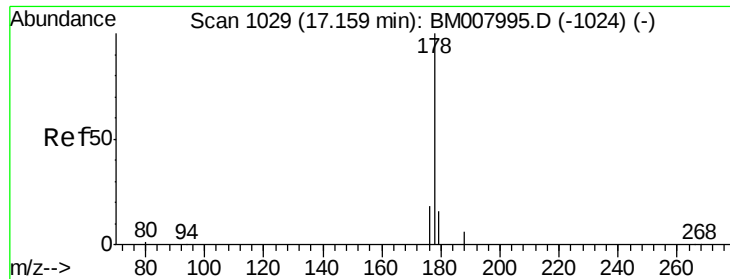


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#12

Phenanthrene

Concen: 0.40 ng/ul

RT: 17.14 min Scan# 1028

Delta R.T. -0.02 min

Lab File: BM008010.D

Acq: 23 Nov 2016 00:34

Instrument :

BNA\_M

ClientSampleId :

SSTD0.449

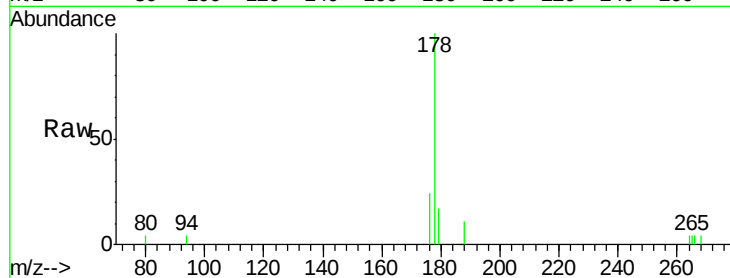
Tgt Ion:178 Resp: 2463

Ion Ratio Lower Upper

178 100

176 24.0 18.4 27.6

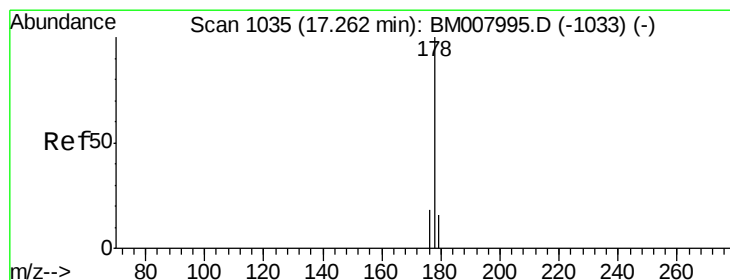
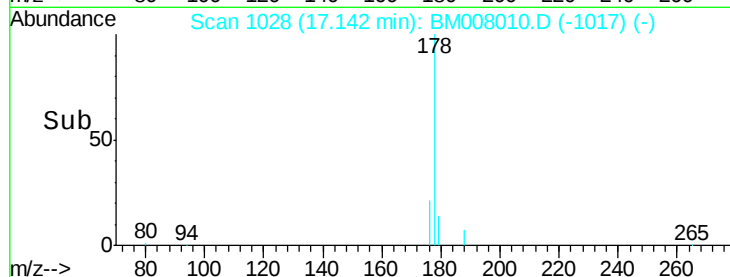
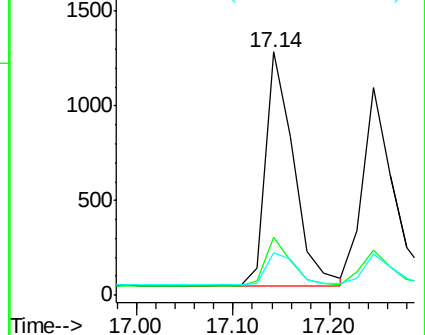
179 17.5 13.6 20.4



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: 0.41 ng/ul

RT: 17.24 min Scan# 1034

Delta R.T. -0.02 min

Lab File: BM008010.D

Acq: 23 Nov 2016 00:34

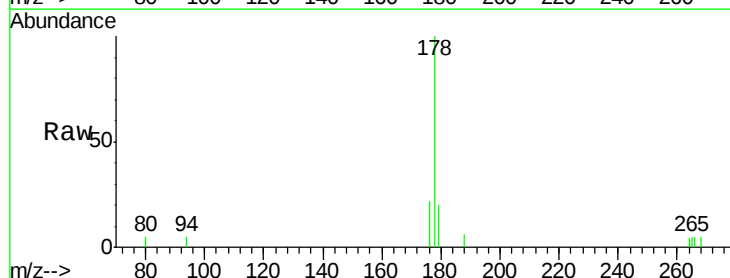
Tgt Ion:178 Resp: 2353

Ion Ratio Lower Upper

178 100

176 21.9 18.1 27.1

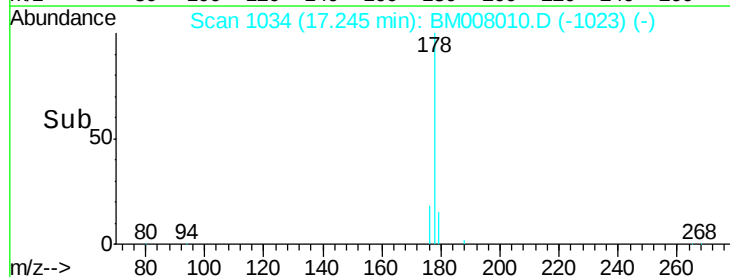
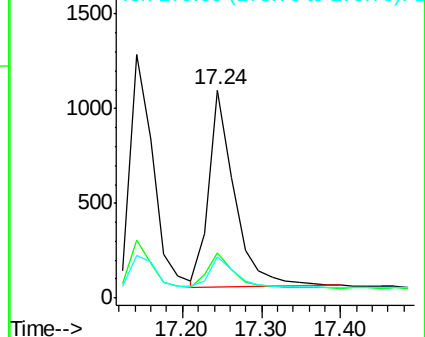
179 19.7 14.7 22.1

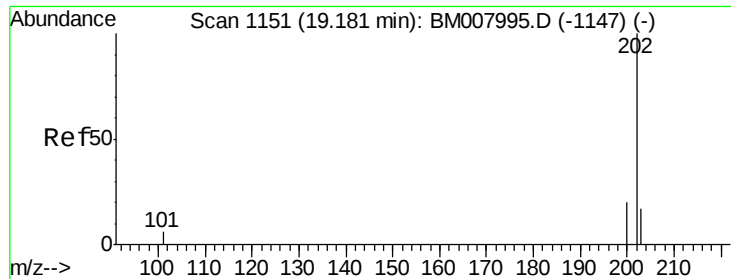


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

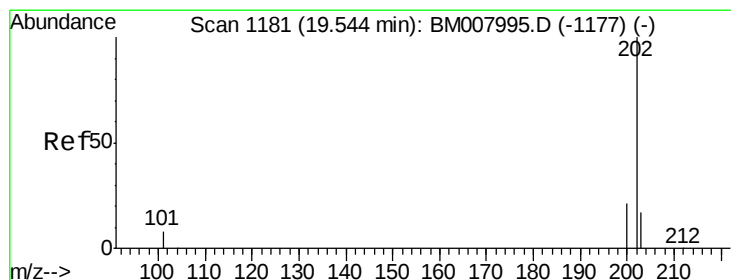
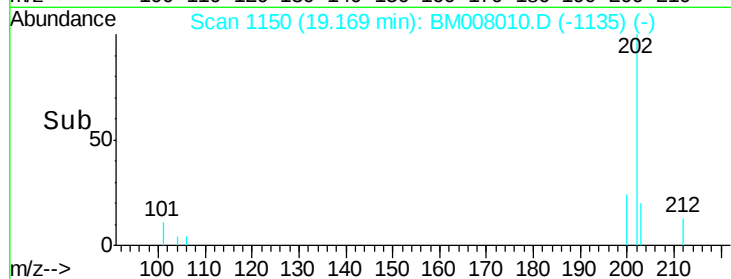
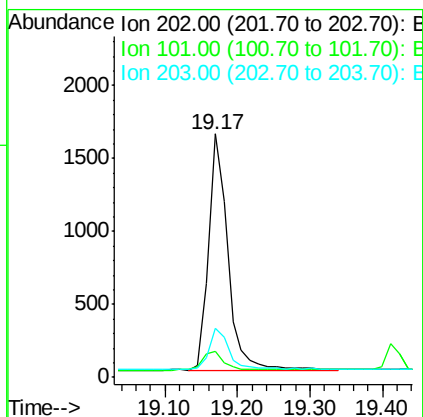
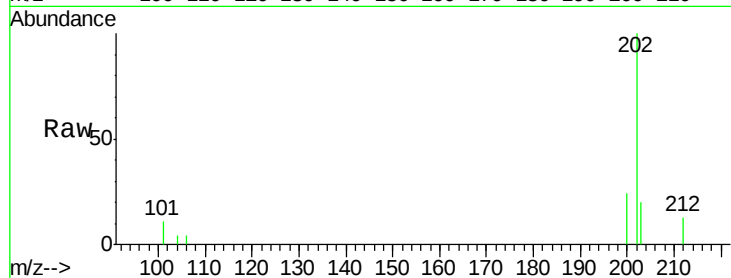




#15  
Fluoranthene  
Concen: 0.38 ng/ul  
RT: 19.17 min Scan# 1150  
Delta R.T. -0.01 min  
Lab File: BM008010.D  
Acq: 23 Nov 2016 00:34

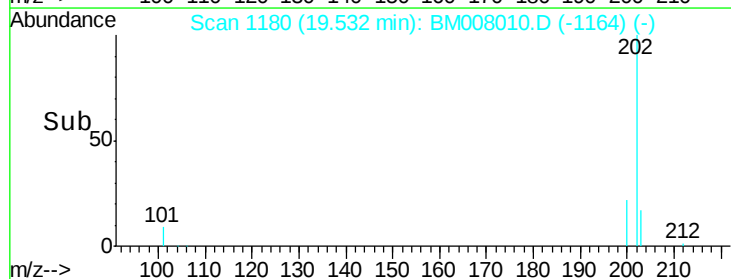
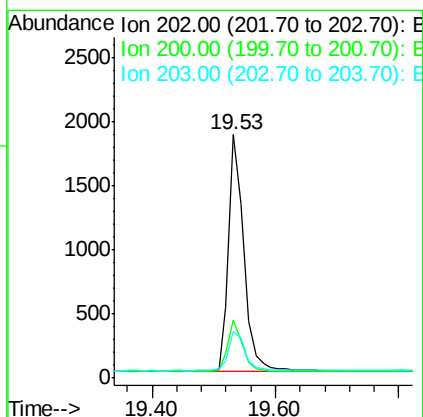
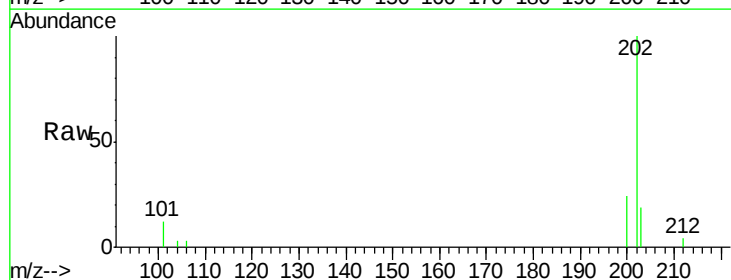
Instrument :  
BNA\_M  
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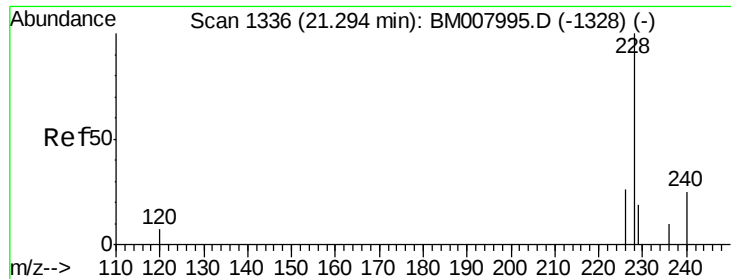
Tgt Ion:202 Resp: 2964  
Ion Ratio Lower Upper  
202 100  
101 10.8 0.0 30.3  
203 20.0 0.0 39.5



#17  
Pyrene  
Concen: 0.46 ng/ul  
RT: 19.53 min Scan# 1180  
Delta R.T. -0.01 min  
Lab File: BM008010.D  
Acq: 23 Nov 2016 00:34

Tgt Ion:202 Resp: 3187  
Ion Ratio Lower Upper  
202 100  
200 24.0 18.2 27.4  
203 19.1 15.6 23.4





#18

Benzo(a)anthracene

Concen: 0.46 ng/ul

RT: 21.28 min Scan# 1335

Delta R.T. -0.01 min

Lab File: BM008010.D

Acq: 23 Nov 2016 00:34

Instrument :

BNA\_M

ClientSampleId :

SSTD0.449

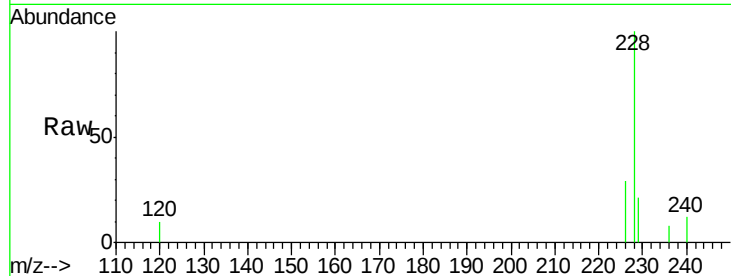
Tgt Ion:228 Resp: 2816

Ion Ratio Lower Upper

228 100

226 29.2 22.8 34.2

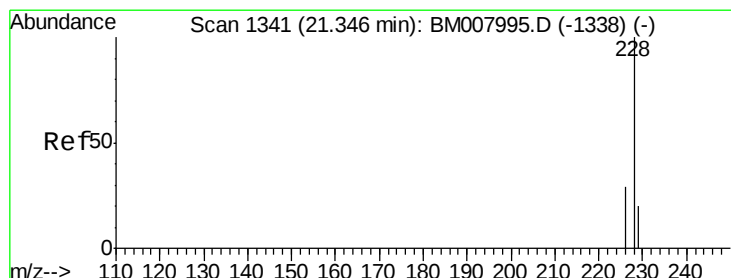
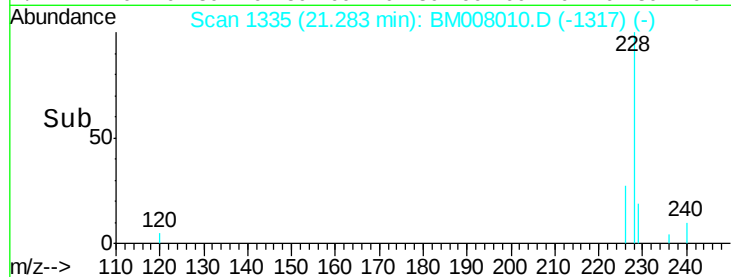
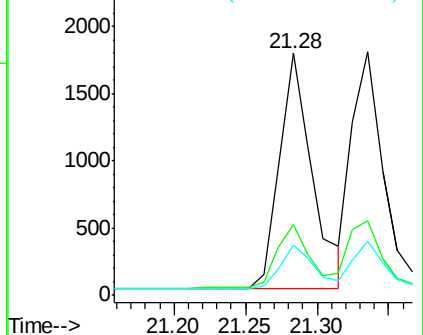
229 21.0 17.0 25.6



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: 0.37 ng/ul

RT: 21.34 min Scan# 1340

Delta R.T. -0.00 min

Lab File: BM008010.D

Acq: 23 Nov 2016 00:34

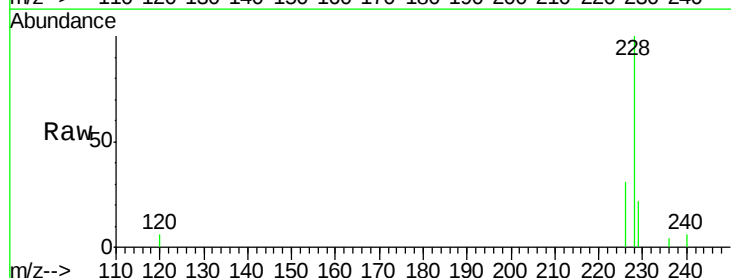
Tgt Ion:228 Resp: 2799

Ion Ratio Lower Upper

228 100

226 30.7 23.4 35.0

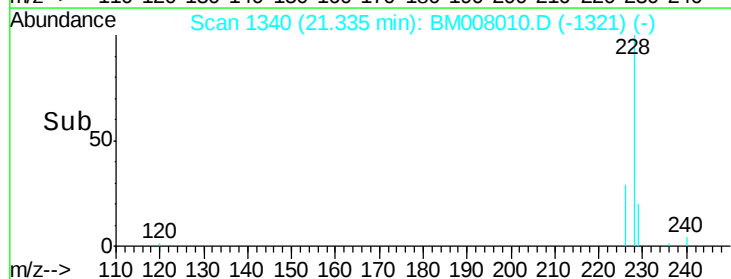
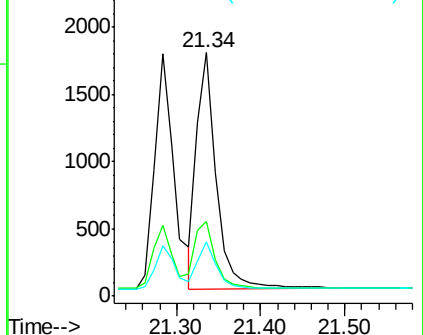
229 22.3 17.7 26.5

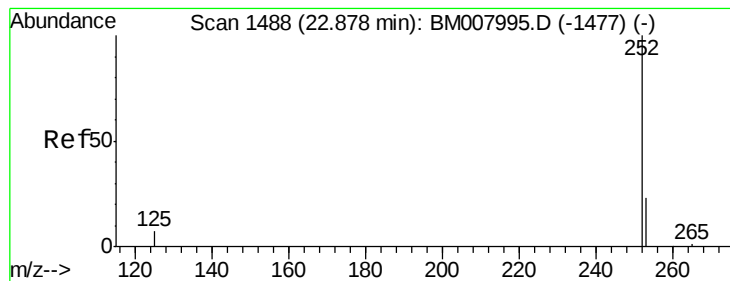


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Benzo(b)fluoranthene

Concen: 0.40 ng/ul

RT: 22.87 min Scan# 1487

Delta R.T. -0.01 min

Lab File: BM008010.D

Acq: 23 Nov 2016 00:34

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BNA\_M

ClientSampleId :

SSTD0.449

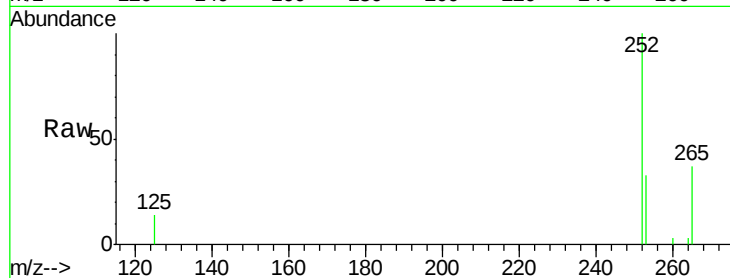
Tgt Ion:252 Resp: 3003

Ion Ratio Lower Upper

252 100

253 32.6 0.0 64.2

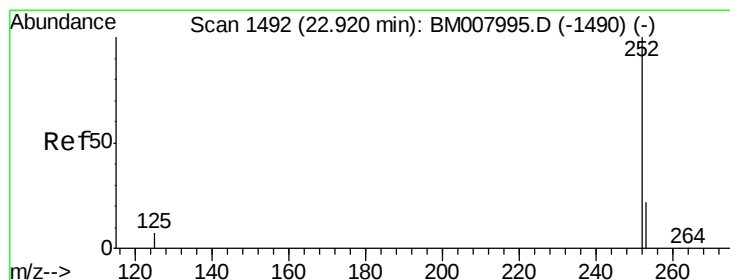
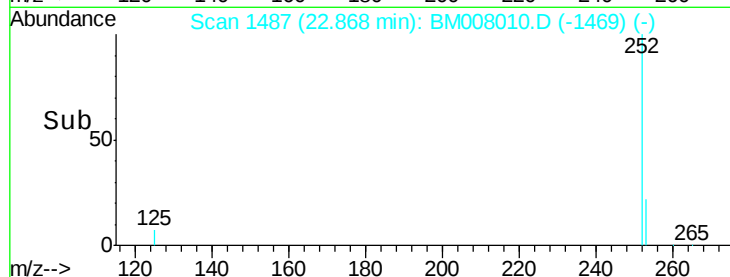
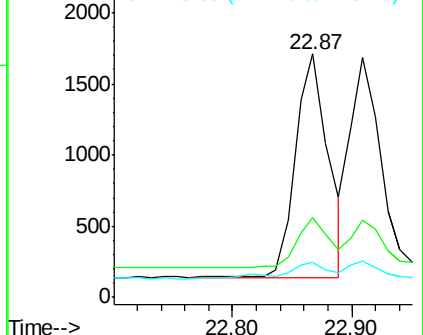
125 14.4 0.0 35.0



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: 0.38 ng/ul

RT: 22.91 min Scan# 1491

Delta R.T. -0.01 min

Lab File: BM008010.D

Acq: 23 Nov 2016 00:34

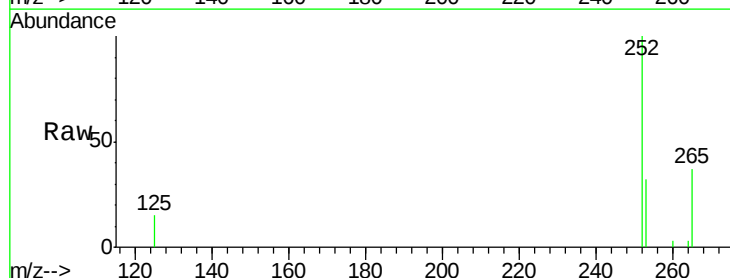
Tgt Ion:252 Resp: 2910

Ion Ratio Lower Upper

252 100

253 32.2 24.5 36.7

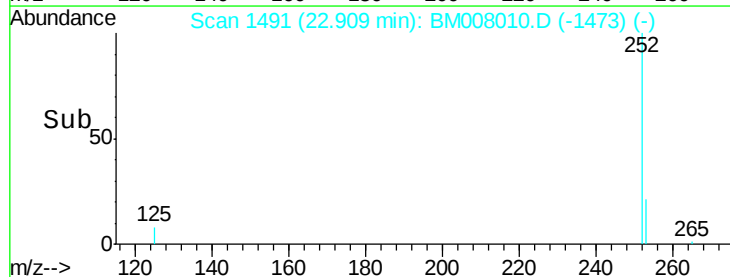
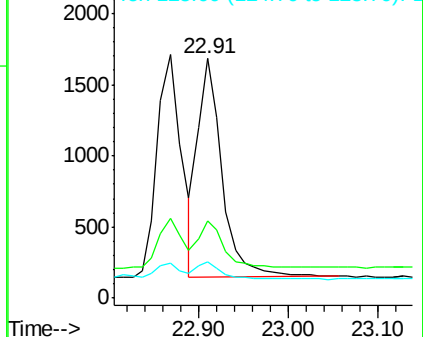
125 15.0 13.7 20.5

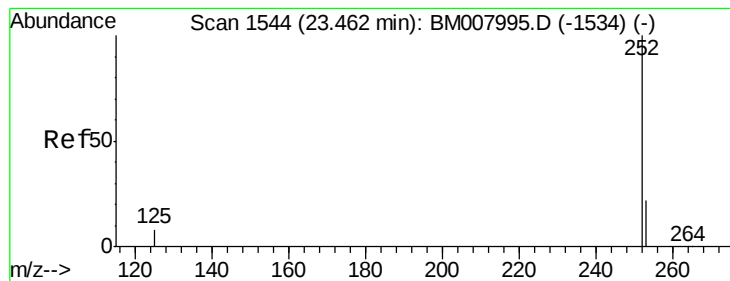


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 0.40 ng/ul

RT: 23.44 min Scan# 1542

Delta R.T. -0.01 min

Lab File: BM008010.D

Acq: 23 Nov 2016 00:34

Instrument :

BNA\_M

ClientSampleId :

SSTD0.449

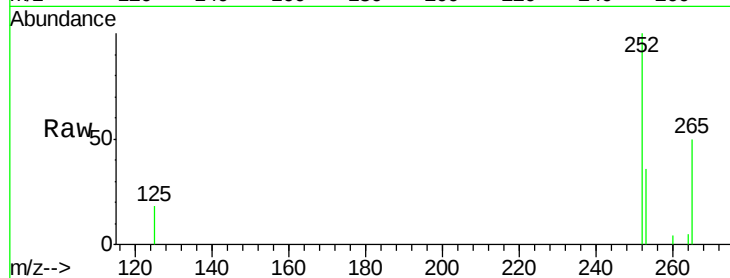
Tgt Ion:252 Resp: 2811

Ion Ratio Lower Upper

252 100

253 35.6 28.5 42.7

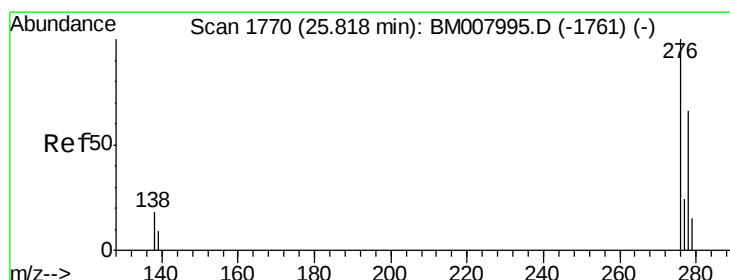
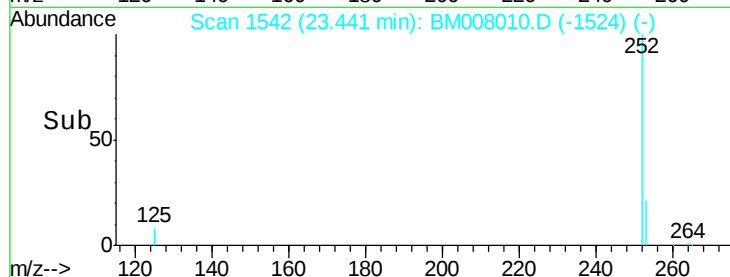
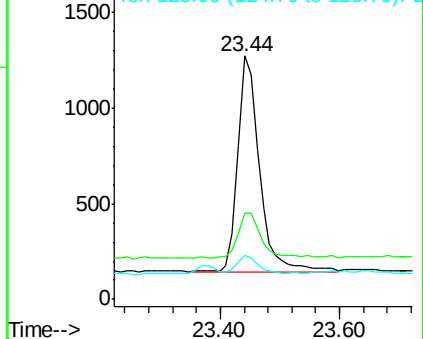
125 17.8 18.1 27.1#



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.39 ng/ul

RT: 25.80 min Scan# 1768

Delta R.T. -0.02 min

Lab File: BM008010.D

Acq: 23 Nov 2016 00:34

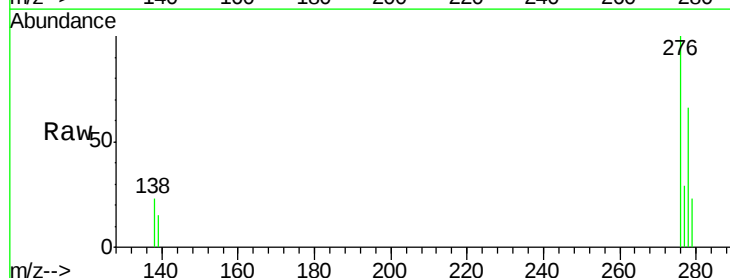
Tgt Ion:276 Resp: 3404

Ion Ratio Lower Upper

276 100

138 18.9 19.1 28.7#

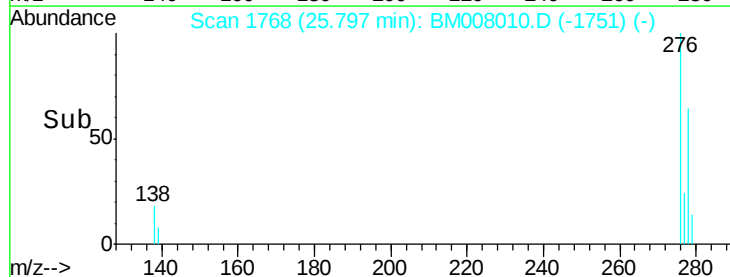
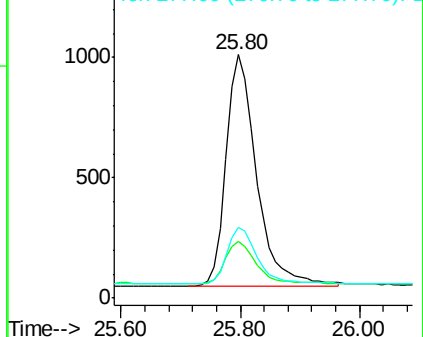
277 24.1 19.6 29.4

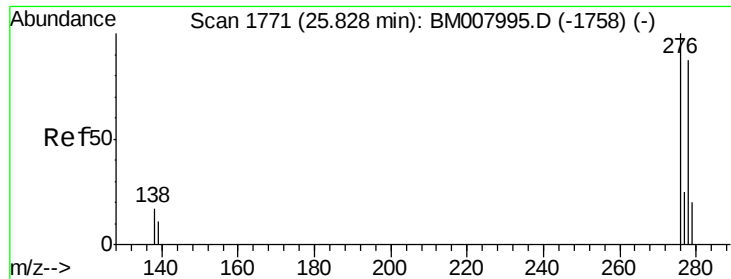


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#25

Dibenzo(a,h)anthracene

Concen: 0.38 ng/ul

RT: 25.81 min Scan# 1769

Delta R.T. -0.02 min

Lab File: BM008010.D

Acq: 23 Nov 2016 00:34

Instrument :

BNA\_M

ClientSampleId :

SSTD0.449

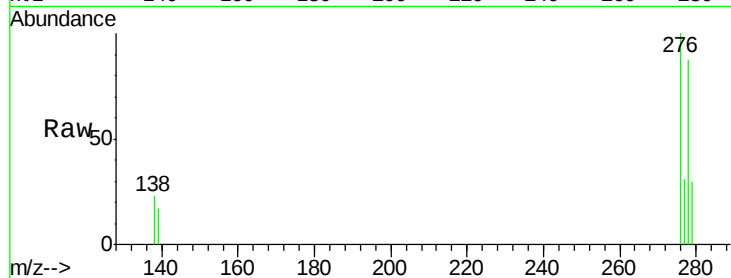
Tgt Ion: 278 Resp: 2683

Ion Ratio Lower Upper

278 100

139 19.8 17.4 26.0

279 34.1 25.9 38.9



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

25.81

800

600

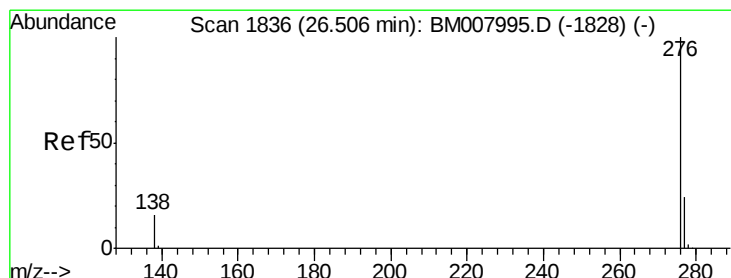
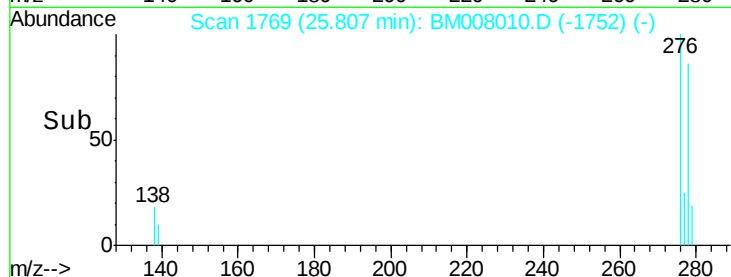
400

200

0

25.60 25.80 26.00

Time-->



#26

Benzo(g,h,i)perylene

Concen: 0.38 ng/ul

RT: 26.50 min Scan# 1835

Delta R.T. -0.01 min

Lab File: BM008010.D

Acq: 23 Nov 2016 00:34

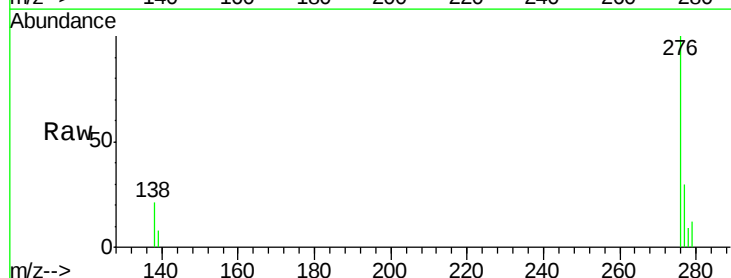
Tgt Ion: 276 Resp: 2944

Ion Ratio Lower Upper

276 100

277 29.7 21.8 32.8

138 21.2 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

26.50

1000

800

600

400

200

0

26.40 26.60

Time-->

