

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM080715\  
 Data File : BM002282.D  
 Acq On : 08 Aug 2015 18:14  
 Operator : TP/UM  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD02015

Quant Time: Aug 09 05:34:36 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM080715MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sun Aug 09 05:31:20 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.92  | 152  | 223589   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 11.80 | 136  | 1025640  | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 15.50 | 164  | 516402   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 18.21 | 188  | 1035436  | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 22.30 | 240  | 880122   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 24.99 | 264  | 703450   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                        |       |     |         |       |       |      |
|------------------------|-------|-----|---------|-------|-------|------|
| 7) Acenaphthylene-d8   | 15.21 | 160 | 1103785 | 20.63 | ng/ul | 0.00 |
| 10) Fluorene-d10       | 16.47 | 176 | 743298  | 19.98 | ng/ul | 0.00 |
| 14) Anthracene-d10     | 18.31 | 188 | 1035187 | 20.60 | ng/ul | 0.00 |
| 18) Pyrene-d10         | 20.52 | 212 | 995953  | 23.33 | ng/ul | 0.00 |
| 25) Benzo(a)pyrene-d12 | 24.82 | 264 | 774767  | 20.74 | ng/ul | 0.00 |

## Target Compounds

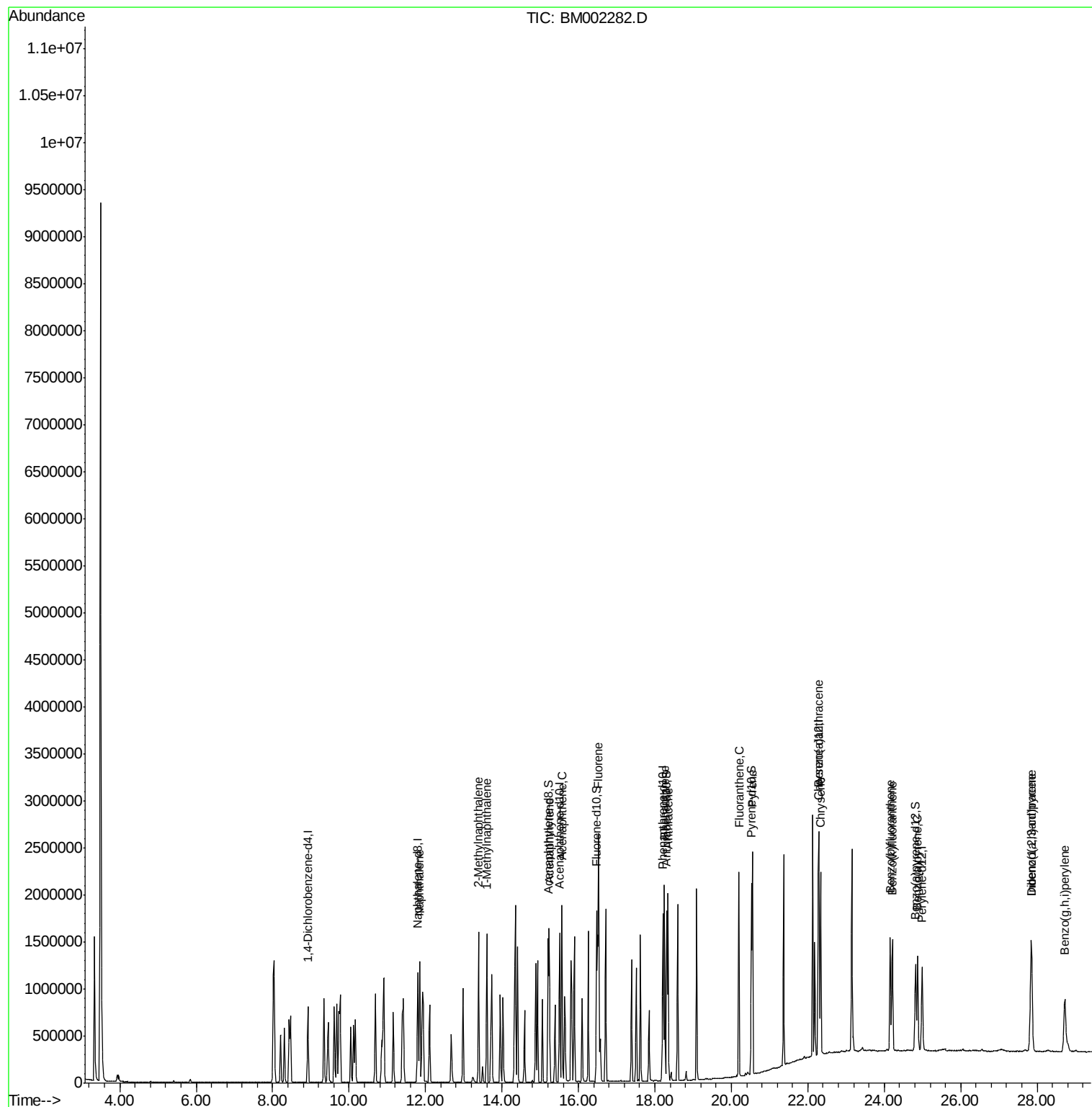
|                            |       |     |         |       |       | Qvalue |
|----------------------------|-------|-----|---------|-------|-------|--------|
| 3) Naphthalene             | 11.85 | 128 | 1101168 | 20.39 | ng/ul | 99     |
| 4) 2-Methylnaphthalene     | 13.39 | 142 | 759716  | 19.69 | ng/ul | 98     |
| 5) 1-Methylnaphthalene     | 13.60 | 142 | 745530  | 19.61 | ng/ul | 98     |
| 8) Acenaphthylene          | 15.23 | 152 | 1151532 | 20.73 | ng/ul | 99     |
| 9) Acenaphthene            | 15.57 | 153 | 771668  | 20.66 | ng/ul | 99     |
| 11) Fluorene               | 16.53 | 166 | 845454  | 20.10 | ng/ul | 100    |
| 13) Phenanthrene           | 18.25 | 178 | 1230090 | 20.64 | ng/ul | 99     |
| 15) Anthracene             | 18.34 | 178 | 1266792 | 20.58 | ng/ul | 100    |
| 16) Fluoranthene           | 20.20 | 202 | 1306785 | 19.80 | ng/ul | 100    |
| 19) Pyrene                 | 20.55 | 202 | 1336543 | 23.49 | ng/ul | 100    |
| 20) Benzo(a)anthracene     | 22.28 | 228 | 1112967 | 20.72 | ng/ul | 100    |
| 21) Chrysene               | 22.34 | 228 | 1036378 | 20.35 | ng/ul | 100    |
| 23) Benzo(b)fluoranthene   | 24.16 | 252 | 946032  | 21.64 | ng/ul | 99     |
| 24) Benzo(k)fluoranthene   | 24.21 | 252 | 901296  | 21.47 | ng/ul | 99     |
| 26) Benzo(a)pyrene         | 24.87 | 252 | 860030  | 20.56 | ng/ul | 99     |
| 27) Indeno(1,2,3-cd)pyrene | 27.84 | 276 | 914391  | 19.07 | ng/ul | 99     |
| 28) Dibenzo(a,h)anthracene | 27.86 | 278 | 782589  | 19.26 | ng/ul | 99     |
| 29) Benzo(g,h,i)perylene   | 28.73 | 276 | 763744  | 18.88 | ng/ul | 99     |

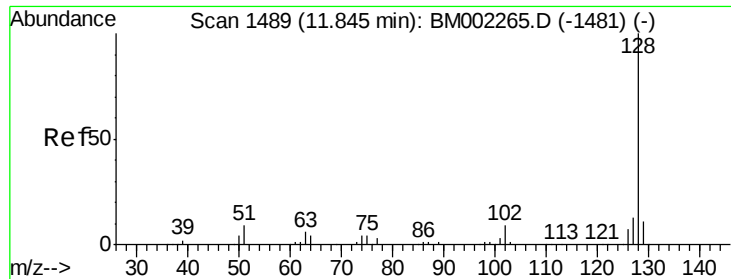
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM080715\  
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Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_M  
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Quant Time: Aug 09 05:34:36 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM080715MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sun Aug 09 05:31:20 2015  
Response via : Initial Calibration





#3

Naphthalene

Concen: 20.39 ng/ul

RT: 11.85 min Scan# 1489

Delta R.T. -0.00 min

Lab File: BM002282.D

Acq: 08 Aug 2015 18:14

Instrument :

BNA\_M

ClientSampleId :

SSTD02015

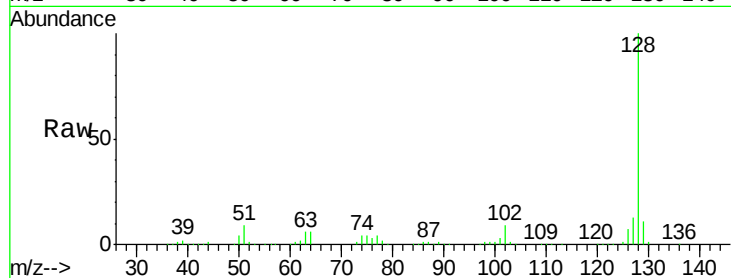
Tgt Ion:128 Resp: 1101168

Ion Ratio Lower Upper

128 100

129 11.1 8.6 12.8

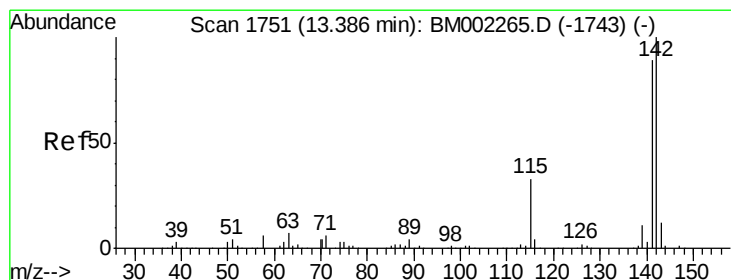
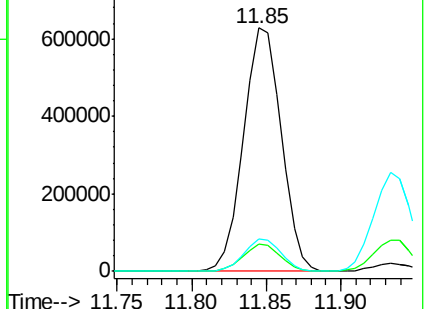
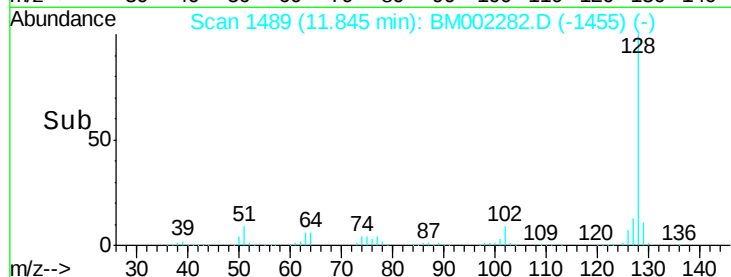
127 13.2 10.4 15.6



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



#4

2-Methylnaphthalene

Concen: 19.69 ng/ul

RT: 13.39 min Scan# 1751

Delta R.T. -0.00 min

Lab File: BM002282.D

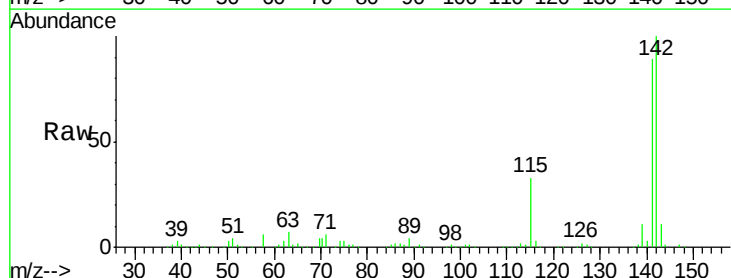
Acq: 08 Aug 2015 18:14

Tgt Ion:142 Resp: 759716

Ion Ratio Lower Upper

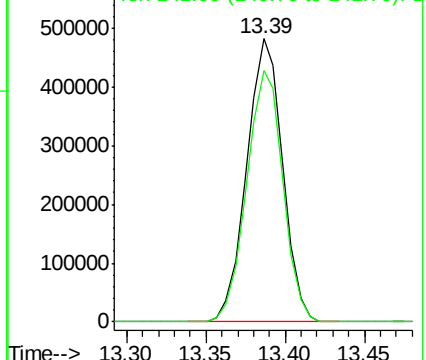
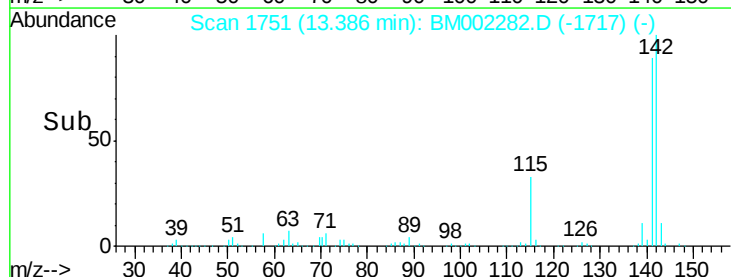
142 100

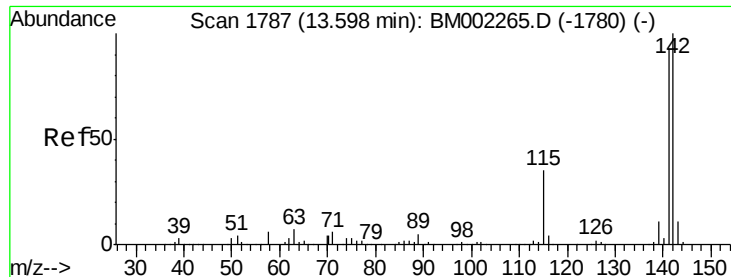
141 89.0 72.5 108.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#5

1-Methylnaphthalene

Concen: 19.61 ng/ul

RT: 13.60 min Scan# 1788

Delta R.T. 0.01 min

Lab File: BM002282.D

Acq: 08 Aug 2015 18:14

Instrument :

BNA\_M

ClientSampleId :

SSTD02015

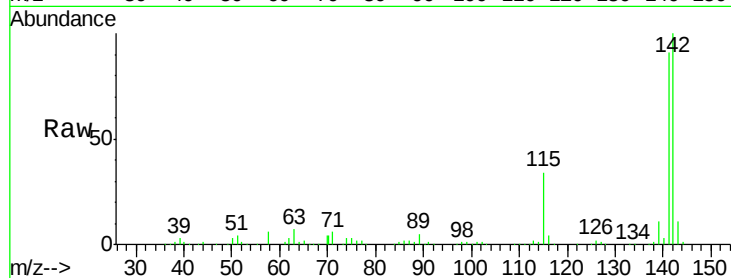
Tgt Ion:142 Resp: 745530

Ion Ratio Lower Upper

142 100

141 91.5 74.5 111.7

116 3.6 3.0 4.4



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E

600000

500000

400000

300000

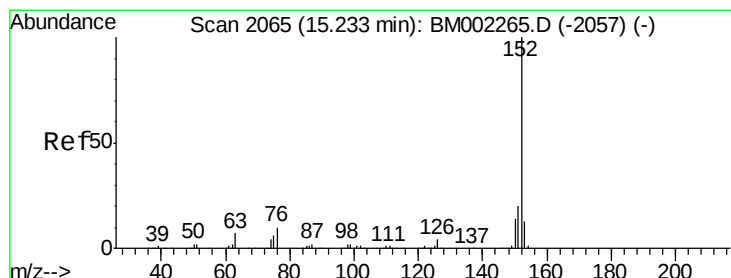
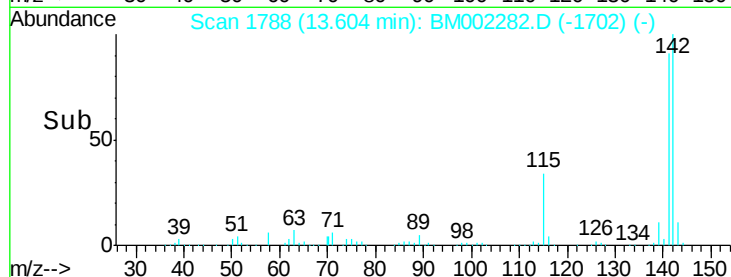
200000

100000

0

13.55 13.60 13.65

Time-->



#8

Acenaphthylene

Concen: 20.73 ng/ul

RT: 15.23 min Scan# 2065

Delta R.T. -0.00 min

Lab File: BM002282.D

Acq: 08 Aug 2015 18:14

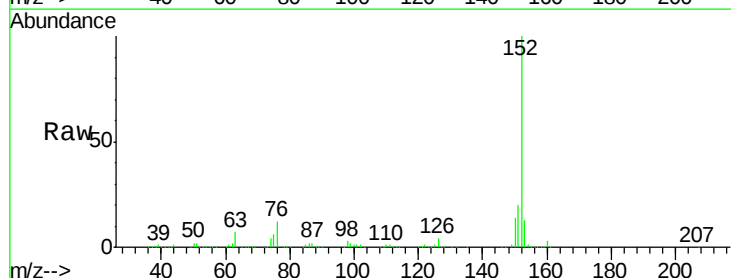
Tgt Ion:152 Resp: 1151532

Ion Ratio Lower Upper

152 100

151 20.2 15.9 23.9

153 13.3 10.6 15.8



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

1000000

800000

600000

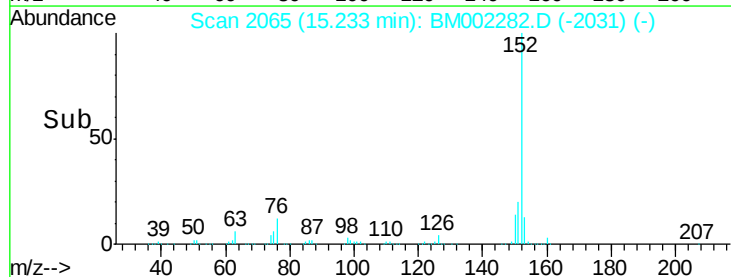
400000

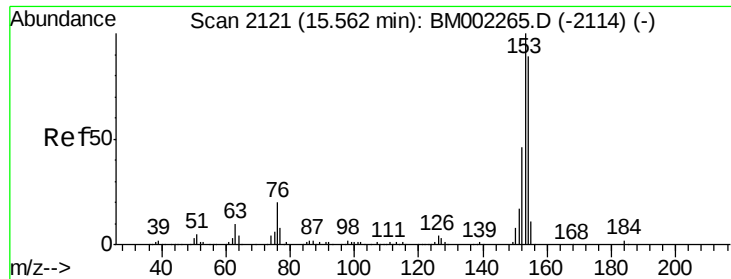
200000

0

15.20 15.23 15.30

Time-->





#9

Acenaphthene

Concen: 20.66 ng/ul

RT: 15.57 min Scan# 2122

Delta R.T. 0.01 min

Lab File: BM002282.D

Acq: 08 Aug 2015 18:14

Instrument :

BNA\_M

ClientSampleId :

SSTD02015

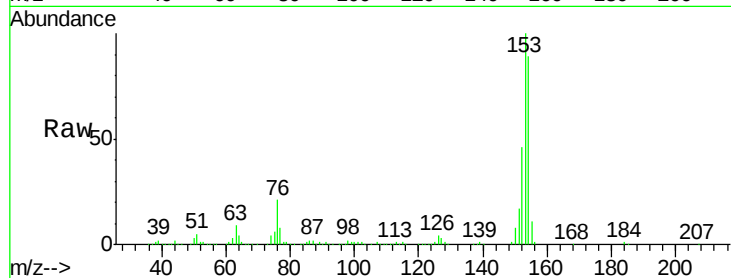
Tgt Ion:153 Resp: 771668

Ion Ratio Lower Upper

153 100

152 46.0 36.6 55.0

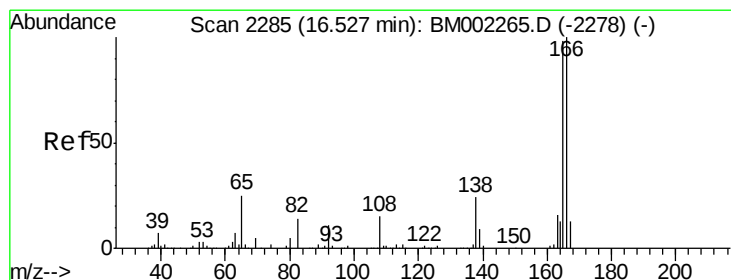
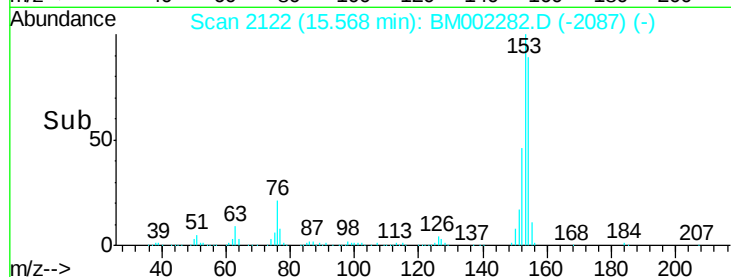
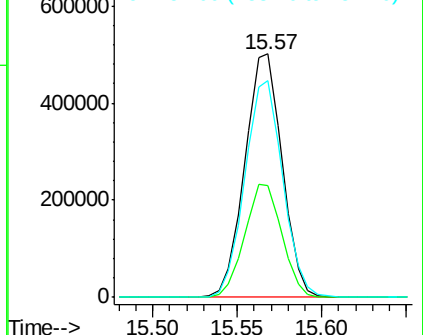
154 88.9 71.5 107.3



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: 20.10 ng/ul

RT: 16.53 min Scan# 2285

Delta R.T. -0.00 min

Lab File: BM002282.D

Acq: 08 Aug 2015 18:14

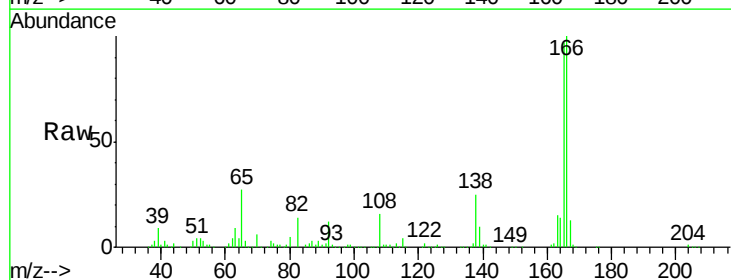
Tgt Ion:166 Resp: 845454

Ion Ratio Lower Upper

166 100

165 96.7 77.5 116.3

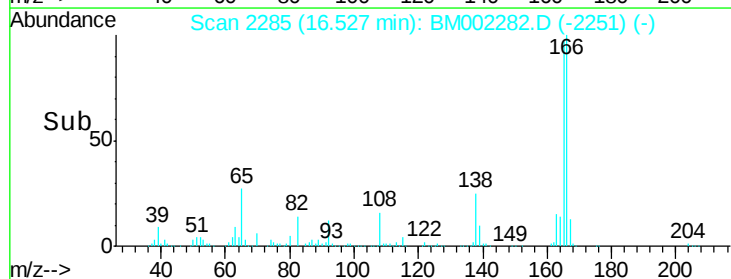
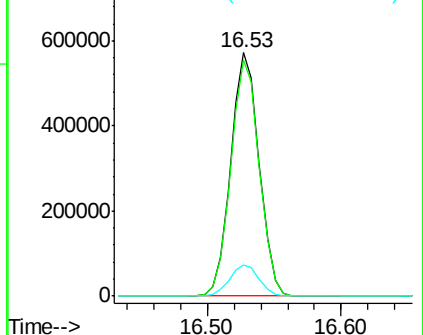
167 13.0 10.4 15.6

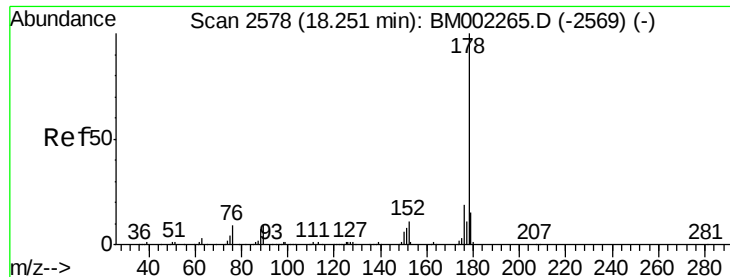


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

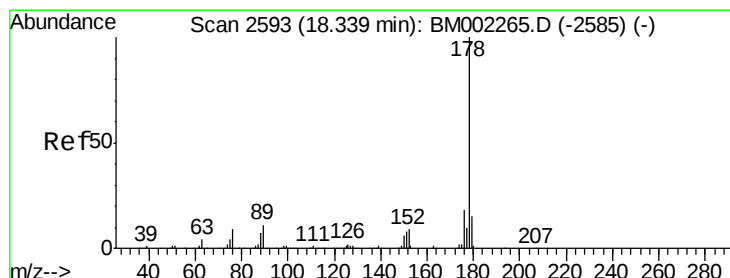
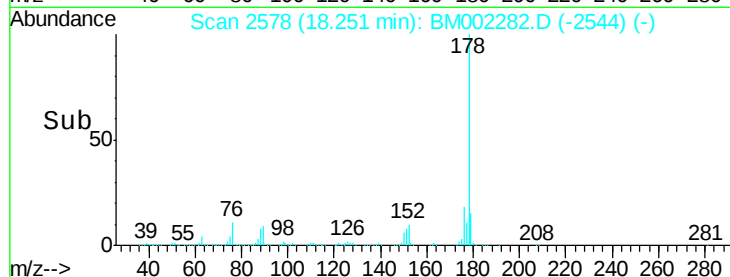
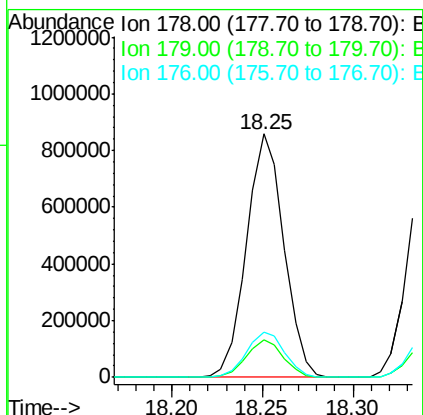
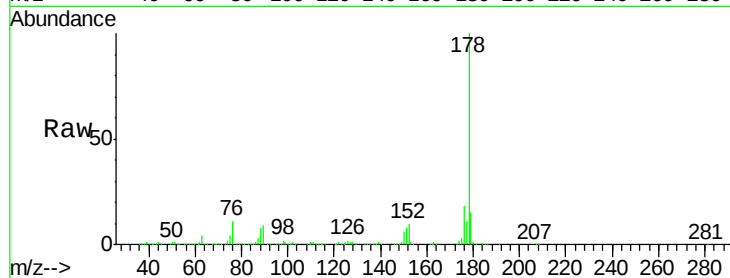




#13  
Phenanthrene  
Concen: 20.64 ng/ul  
RT: 18.25 min Scan# 2578  
Delta R.T. -0.00 min  
Lab File: BM002282.D  
Acq: 08 Aug 2015 18:14

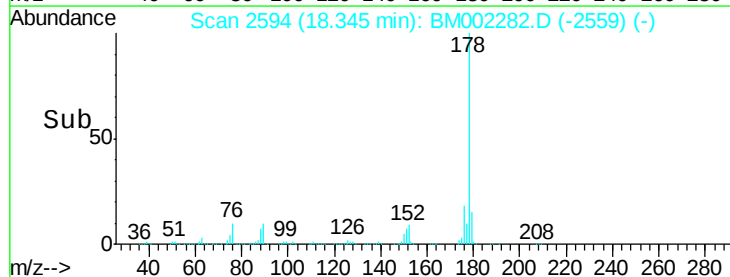
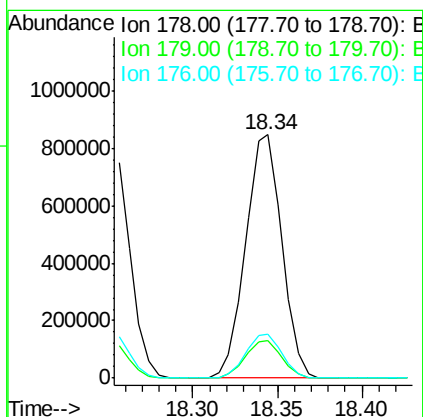
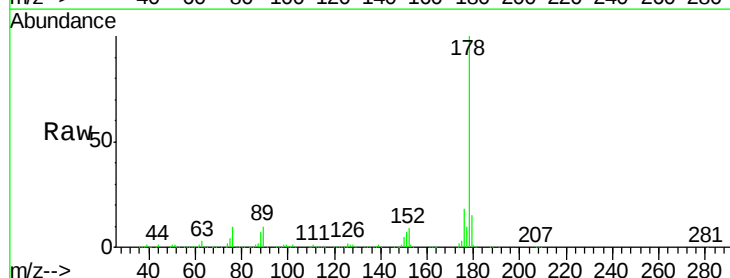
Instrument :  
BNA\_M  
ClientSampleId :  
SSTD02015

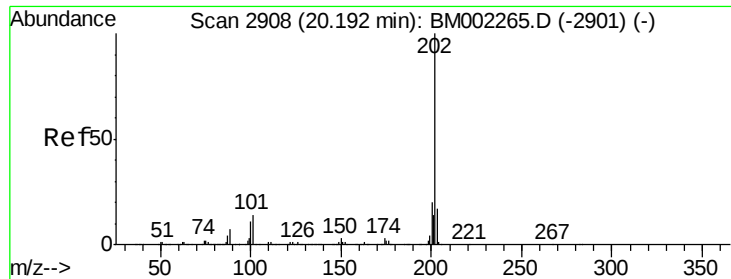
Tgt Ion:178 Resp: 1230090  
Ion Ratio Lower Upper  
178 100  
179 15.3 12.3 18.5  
176 18.4 15.3 22.9



#15  
Anthracene  
Concen: 20.58 ng/ul  
RT: 18.34 min Scan# 2594  
Delta R.T. 0.01 min  
Lab File: BM002282.D  
Acq: 08 Aug 2015 18:14

Tgt Ion:178 Resp: 1266792  
Ion Ratio Lower Upper  
178 100  
179 15.2 12.3 18.5  
176 18.0 14.5 21.7





#16

Fluoranthene

Concen: 19.80 ng/ul

RT: 20.20 min Scan# 2909

Delta R.T. 0.01 min

Lab File: BM002282.D

Acq: 08 Aug 2015 18:14

Instrument :

BNA\_M

ClientSampleId :

SSTD02015

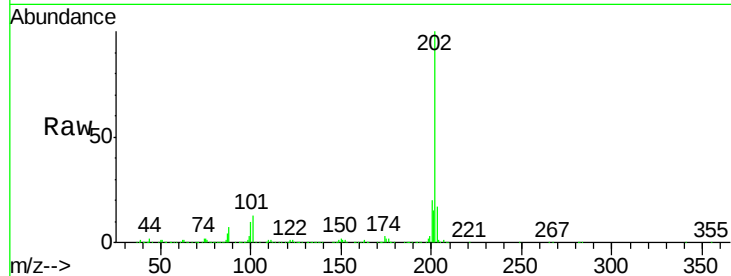
Tgt Ion:202 Resp: 1306785

Ion Ratio Lower Upper

202 100

101 13.4 10.6 15.8

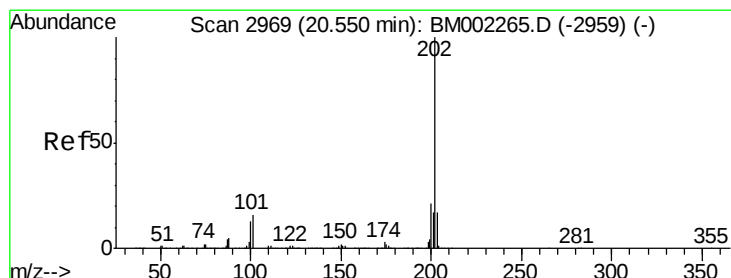
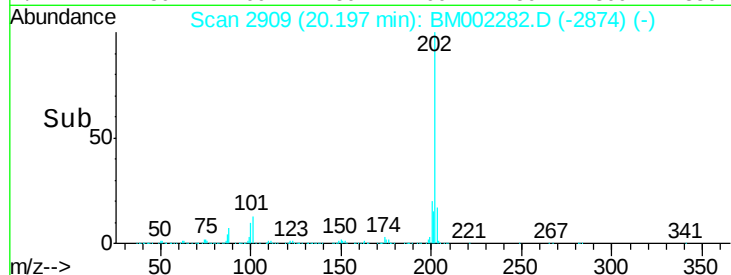
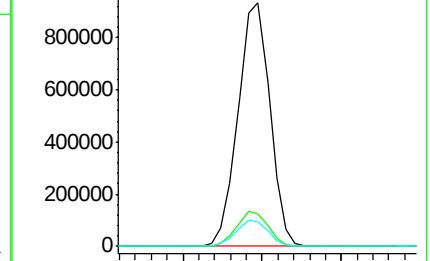
100 10.3 8.2 12.4



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



#19

Pyrene

Concen: 23.49 ng/ul

RT: 20.55 min Scan# 2969

Delta R.T. -0.00 min

Lab File: BM002282.D

Acq: 08 Aug 2015 18:14

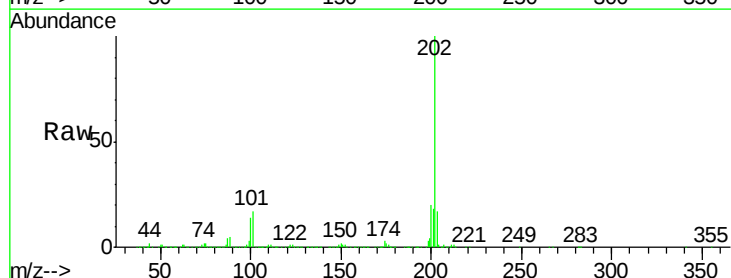
Tgt Ion:202 Resp: 1336543

Ion Ratio Lower Upper

202 100

101 16.6 13.0 19.6

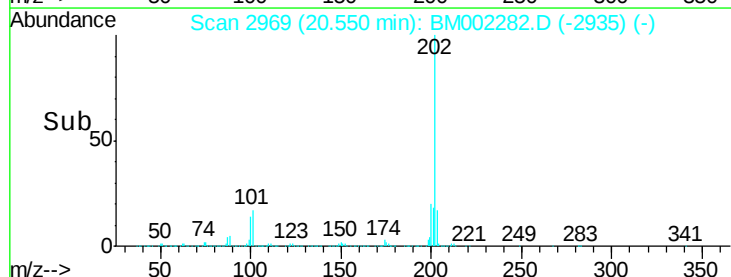
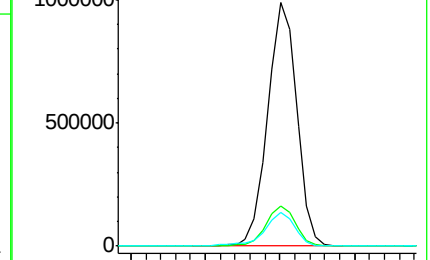
100 13.8 11.0 16.4

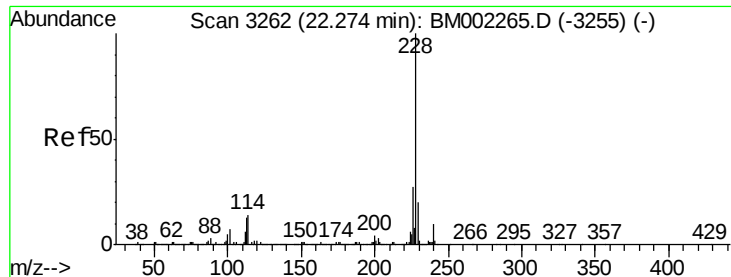


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#20

Benzo(a)anthracene

Concen: 20.72 ng/ul

RT: 22.28 min Scan# 3263

Delta R.T. 0.01 min

Lab File: BM002282.D

Acq: 08 Aug 2015 18:14

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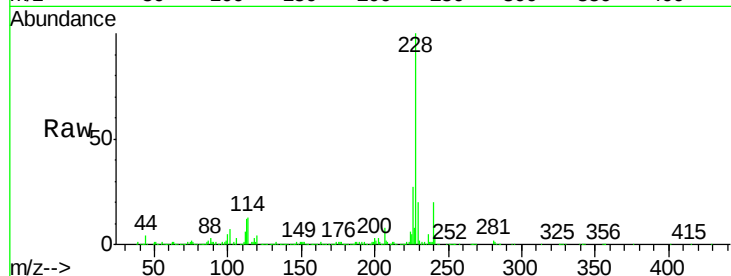
Tgt Ion:228 Resp: 1112967

Ion Ratio Lower Upper

228 100

229 19.5 15.7 23.5

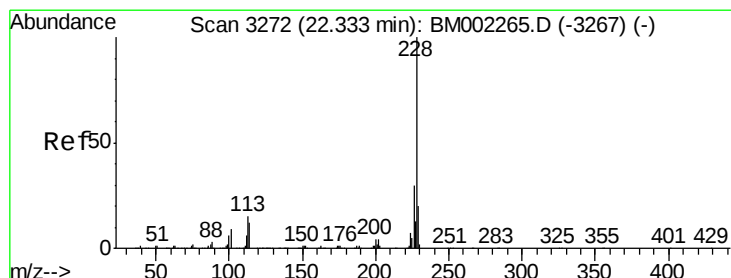
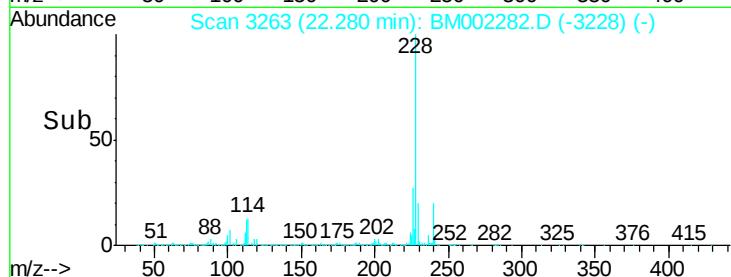
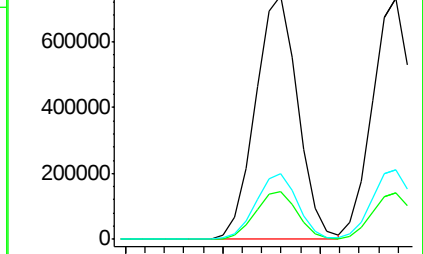
226 26.8 21.4 32.0



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



#21

Chrysene

Concen: 20.35 ng/ul

RT: 22.34 min Scan# 3273

Delta R.T. 0.01 min

Lab File: BM002282.D

Acq: 08 Aug 2015 18:14

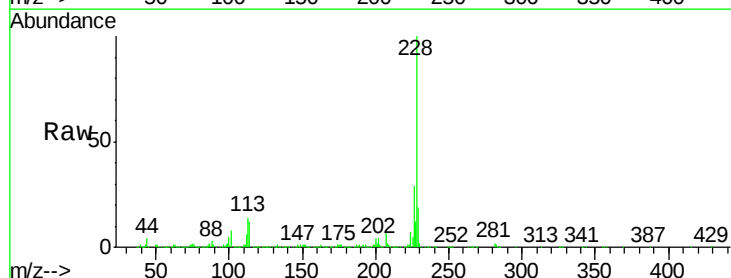
Tgt Ion:228 Resp: 1036378

Ion Ratio Lower Upper

228 100

226 29.2 23.4 35.0

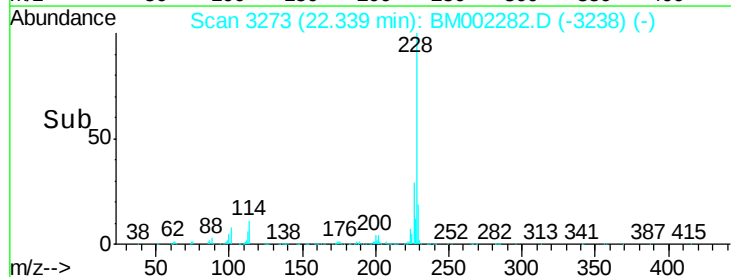
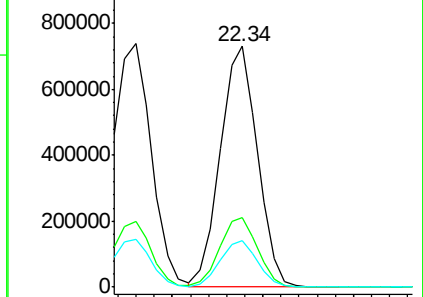
229 19.4 15.5 23.3

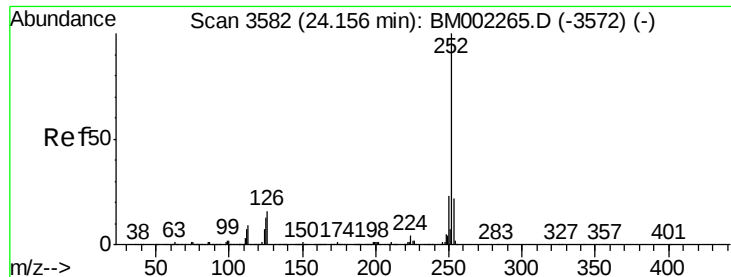


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Benzo(b)fluoranthene

Concen: 21.64 ng/ul

RT: 24.16 min Scan# 3582

Delta R.T. -0.00 min

Lab File: BM002282.D

Acq: 08 Aug 2015 18:14

Instrument :

BNA\_M

ClientSampleId :

SSTD02015

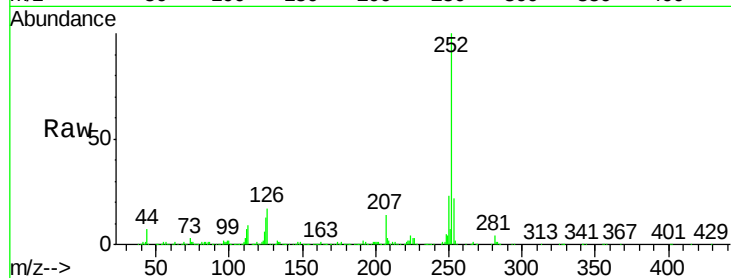
Tgt Ion:252 Resp: 946032

Ion Ratio Lower Upper

252 100

253 22.0 17.9 26.9

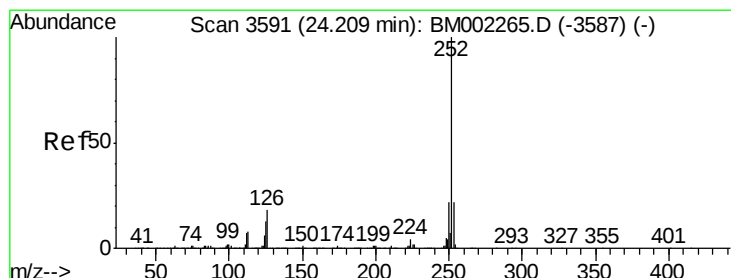
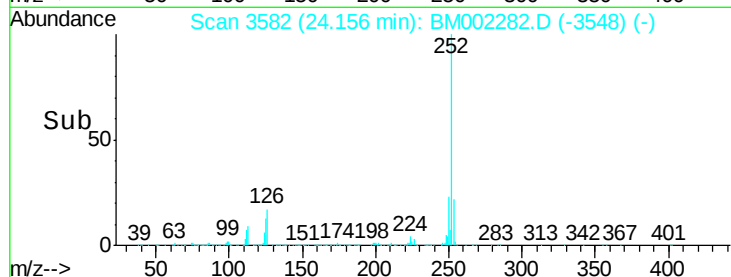
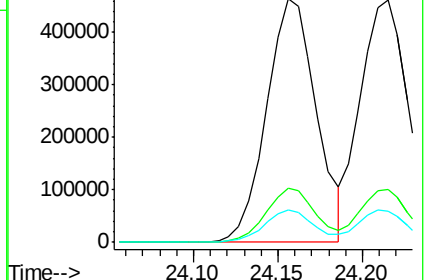
125 13.5 10.3 15.5



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



#24

Benzo(k)fluoranthene

Concen: 21.47 ng/ul

RT: 24.21 min Scan# 3592

Delta R.T. 0.01 min

Lab File: BM002282.D

Acq: 08 Aug 2015 18:14

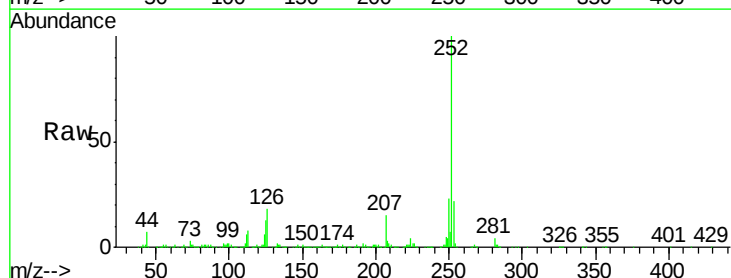
Tgt Ion:252 Resp: 901296

Ion Ratio Lower Upper

252 100

253 22.1 17.3 25.9

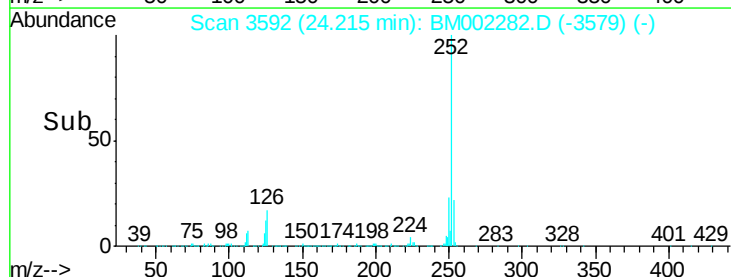
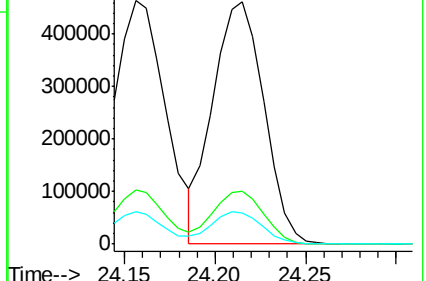
125 12.8 10.2 15.4

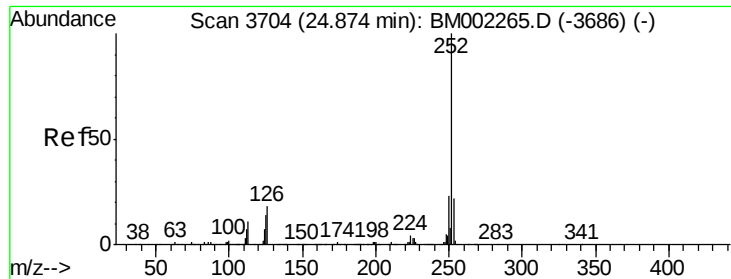


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

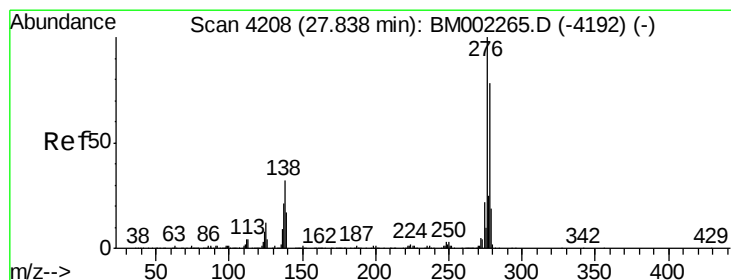
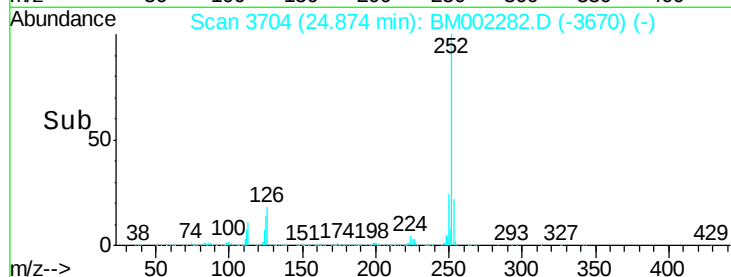
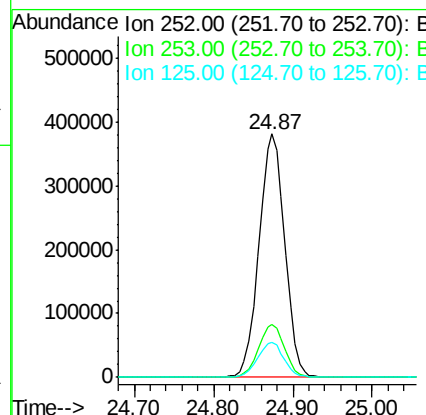
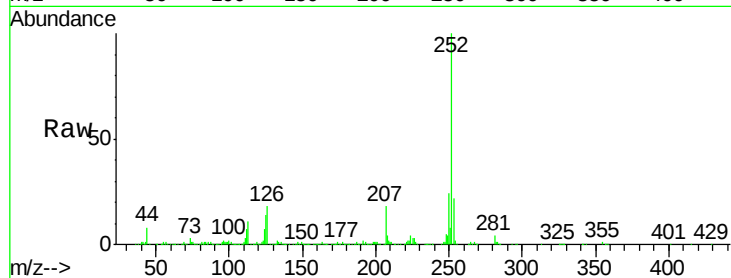




#26  
Benzo(a)pyrene  
Concen: 20.56 ng/ul  
RT: 24.87 min Scan# 3704  
Delta R.T. -0.00 min  
Lab File: BM002282.D  
Acq: 08 Aug 2015 18:14

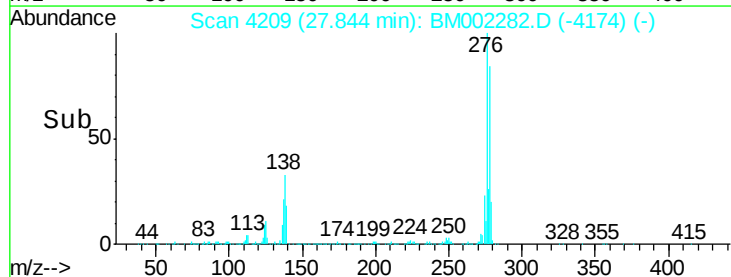
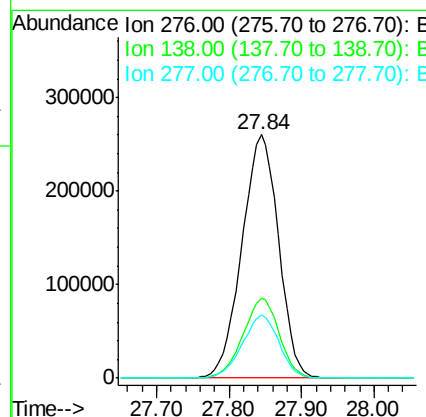
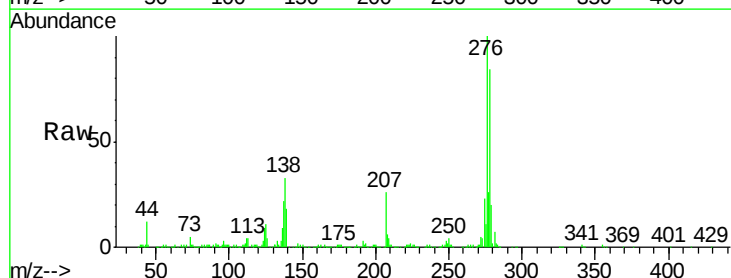
Instrument :  
BNA\_M  
ClientSampleId :  
SSTD02015

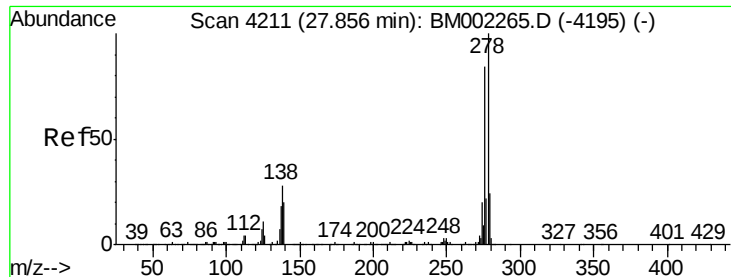
Tgt Ion: 252 Resp: 860030  
Ion Ratio Lower Upper  
252 100  
253 22.0 17.3 25.9  
125 14.4 11.0 16.6



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 19.07 ng/ul  
RT: 27.84 min Scan# 4209  
Delta R.T. 0.01 min  
Lab File: BM002282.D  
Acq: 08 Aug 2015 18:14

Tgt Ion: 276 Resp: 914391  
Ion Ratio Lower Upper  
276 100  
138 32.5 25.6 38.4  
277 25.7 21.0 31.4

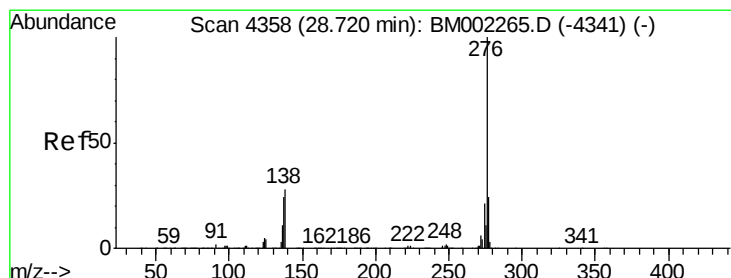
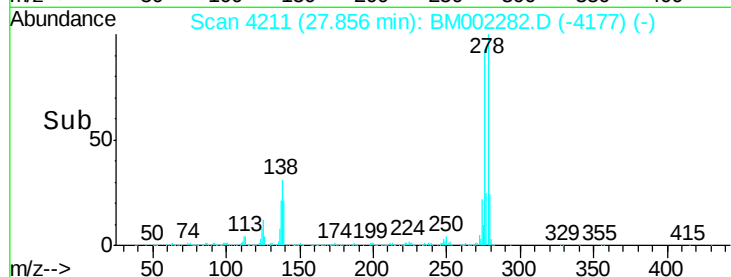
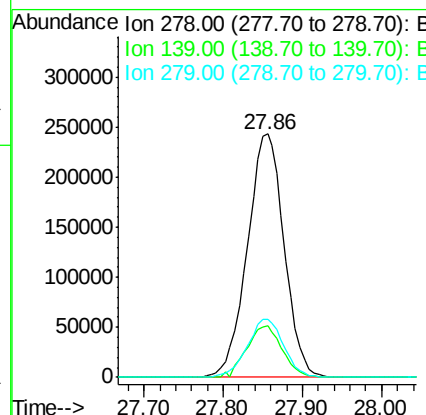
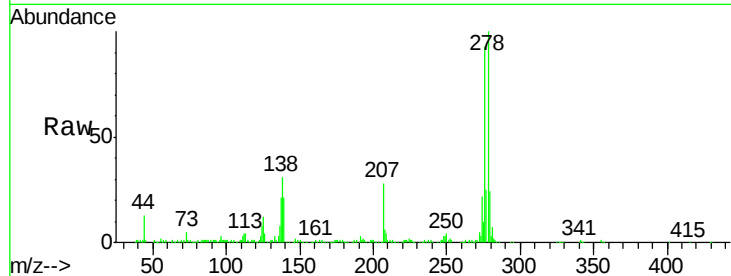




#28  
Dibenzo(a,h)anthracene  
Concen: 19.26 ng/ul  
RT: 27.86 min Scan# 4211  
Delta R.T. -0.00 min  
Lab File: BM002282.D  
Acq: 08 Aug 2015 18:14

Instrument :  
BNA\_M  
ClientSampleId :  
SSTD02015

Tgt Ion: 278 Resp: 782589  
Ion Ratio Lower Upper  
278 100  
139 21.0 16.4 24.6  
279 23.7 18.8 28.2



#29  
Benzo(g,h,i)perylene  
Concen: 18.88 ng/ul  
RT: 28.73 min Scan# 4359  
Delta R.T. 0.01 min  
Lab File: BM002282.D  
Acq: 08 Aug 2015 18:14

Tgt Ion: 276 Resp: 763744  
Ion Ratio Lower Upper  
276 100  
138 26.8 20.5 30.7  
277 23.8 19.0 28.6

