

Data Path : Z:\HPCHEM1\BNA\_M\Data\BM032416\  
 Data File : BM004751.D  
 Acq On : 24 Mar 2016 10:50  
 Operator : UM/SJ  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD0.466

Quant Time: Mar 25 02:27:28 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM032216.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 23 06:08:08 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.84  | 152  | 1164     | 5.00 | ng/ul | 0.00     |
| 4) Naphthalene-d8         | 10.62 | 136  | 4810     | 5.00 | ng/ul | 0.00     |
| 8) Acenaphthene-d10       | 14.47 | 164  | 2289     | 5.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.21 | 188  | 4690     | 5.00 | ng/ul | 0.00     |
| 18) Chrysene-d12          | 21.40 | 240  | 3680     | 5.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 23.69 | 264  | 2747     | 5.00 | ng/ul | 0.00     |

|                             |       |     |      |      |       |      |
|-----------------------------|-------|-----|------|------|-------|------|
| System Monitoring Compounds |       |     |      |      |       |      |
| 2) 1,4-Dioxane-d8           | 3.32  | 96  | 1291 | 2.29 | ng/uL | 0.00 |
| 6) 2-Methylnaphthalene-d10  | 12.22 | 152 | 2388 | 0.44 | ng/ul | 0.00 |
| 16) Fluoranthene-d10        | 19.24 | 212 | 3828 | 0.40 | ng/ul | 0.00 |

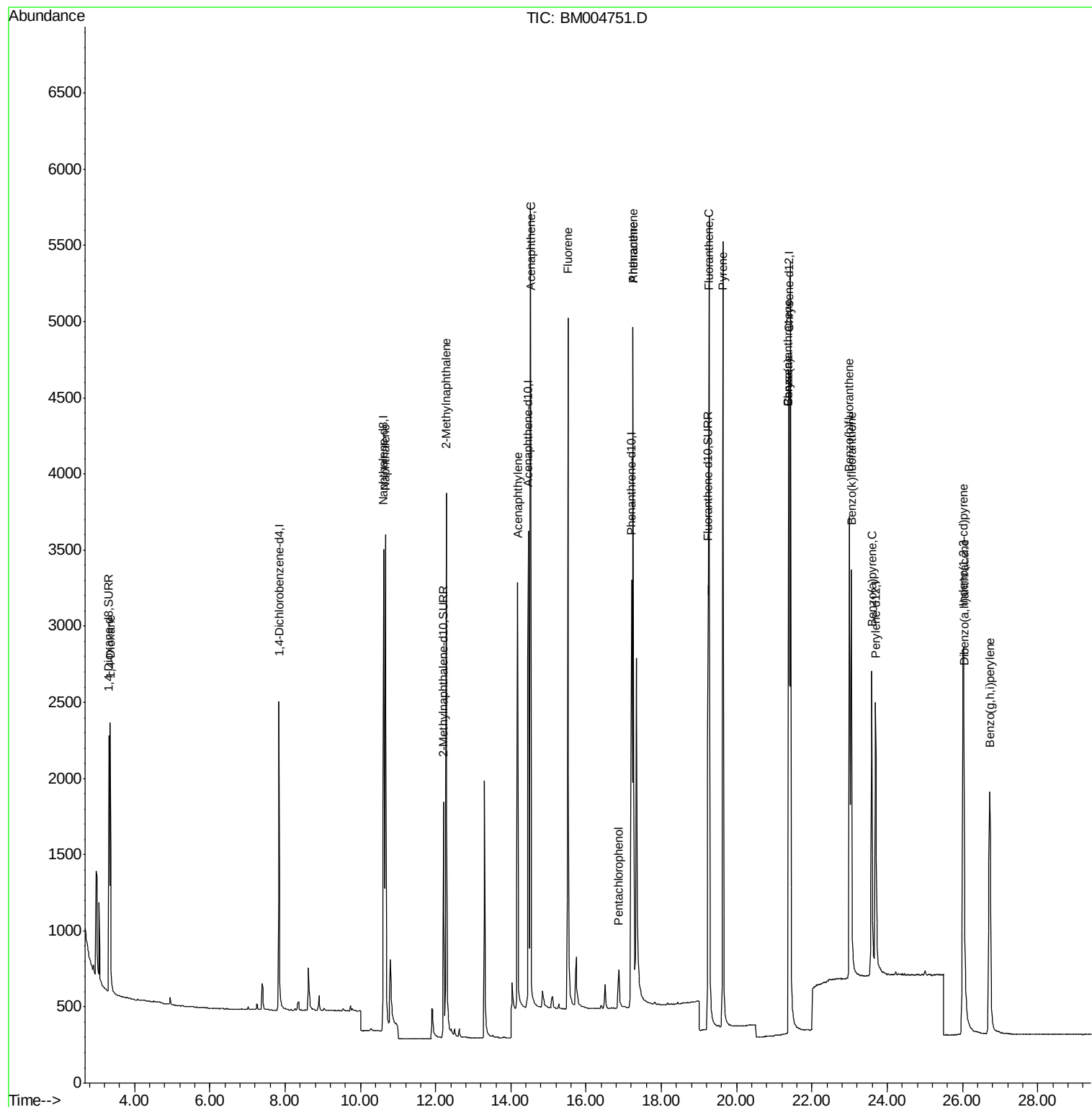
|                            |       |     |      |        |        |    |
|----------------------------|-------|-----|------|--------|--------|----|
| Target Compounds           |       |     |      | Qvalue |        |    |
| 3) 1,4-Dioxane             | 3.35  | 88  | 1546 | 2.25   | ng/ul# | 22 |
| 5) Naphthalene             | 10.67 | 128 | 4851 | 0.43   | ng/ul# | 95 |
| 7) 2-Methylnaphthalene     | 12.28 | 142 | 3140 | 0.44   | ng/ul  | 99 |
| 9) Acenaphthylene          | 14.18 | 152 | 3585 | 0.43   | ng/ul# | 96 |
| 10) Acenaphthene           | 14.52 | 153 | 3194 | 0.42   | ng/ul  | 87 |
| 11) Fluorene               | 15.51 | 166 | 3378 | 0.42   | ng/ul  | 87 |
| 13) Pentachlorophenol      | 16.87 | 266 | 270  | 0.43   | ng/ul  | 95 |
| 14) Phenanthrene           | 17.24 | 178 | 5340 | 0.41   | ng/ul# | 94 |
| 15) Anthracene             | 17.24 | 178 | 5332 | 0.51   | ng/ul  | 96 |
| 17) Fluoranthene           | 19.27 | 202 | 5426 | 0.41   | ng/ul  | 94 |
| 19) Pyrene                 | 19.63 | 202 | 5483 | 0.43   | ng/ul  | 97 |
| 20) Benzo(a)anthracene     | 21.38 | 228 | 3672 | 0.42   | ng/ul# | 92 |
| 21) Chrysene               | 21.38 | 228 | 3672 | 0.31   | ng/ul  | 95 |
| 23) Benzo(b)fluoranthene   | 22.99 | 252 | 3986 | 0.41   | ng/ul  | 93 |
| 24) Benzo(k)fluoranthene   | 23.04 | 252 | 4172 | 0.42   | ng/ul# | 93 |
| 25) Benzo(a)pyrene         | 23.59 | 252 | 3452 | 0.42   | ng/ul# | 89 |
| 26) Indeno(1,2,3-cd)pyrene | 26.02 | 276 | 3734 | 0.41   | ng/ul# | 82 |
| 27) Dibenzo(a,h)anthracene | 26.04 | 278 | 2865 | 0.41   | ng/ul# | 86 |
| 28) Benzo(g,h,i)perylene   | 26.72 | 276 | 3503 | 0.41   | ng/ul# | 89 |

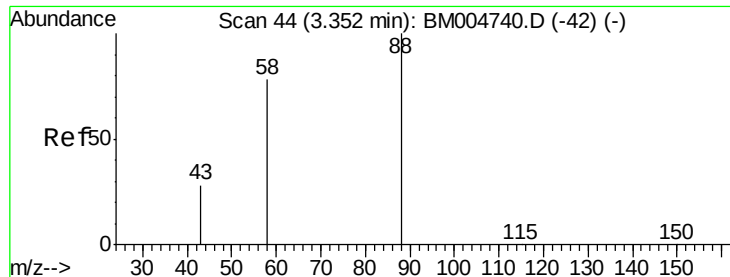
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Mar 23 06:08:08 2016  
Response via : Initial Calibration





#3

1,4-Dioxane

Concen: 2.25 ng/ul

RT: 3.35 min Scan# 44

Delta R.T. 0.00 min

Lab File: BM004751.D

Acq: 24 Mar 2016 10:50

Instrument :

BNA\_M

ClientSampleId :

SSTD0.466

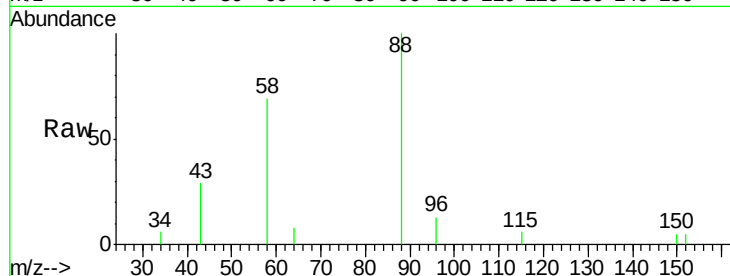
Tgt Ion: 88 Resp: 1546

Ion Ratio Lower Upper

88 100

58 57.6 8.0 12.0#

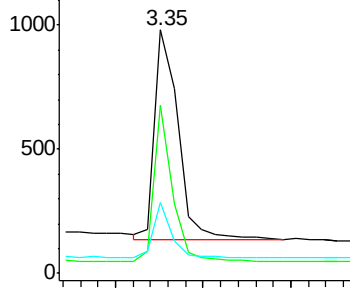
43 20.4 8.0 12.0#



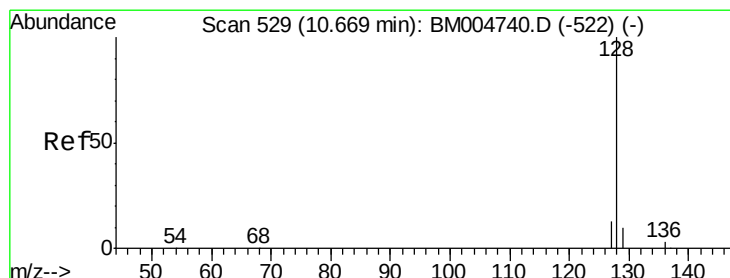
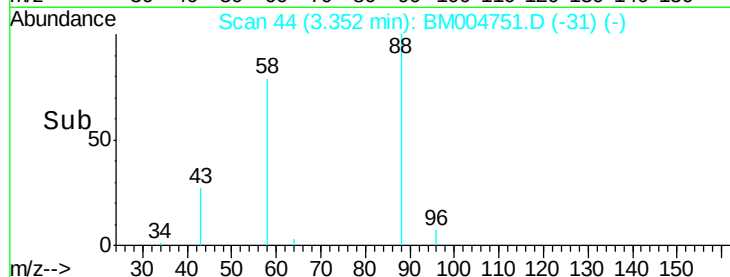
Abundance Ion 88.00 (87.70 to 88.70): BM004740.D (-42) (-)

Ion 58.00 (57.70 to 58.70): BM004740.D (-42) (-)

Ion 43.00 (42.70 to 43.70): BM004740.D (-42) (-)



Time-->



#5

Naphthalene

Concen: 0.43 ng/ul

RT: 10.67 min Scan# 529

Delta R.T. 0.00 min

Lab File: BM004751.D

Acq: 24 Mar 2016 10:50

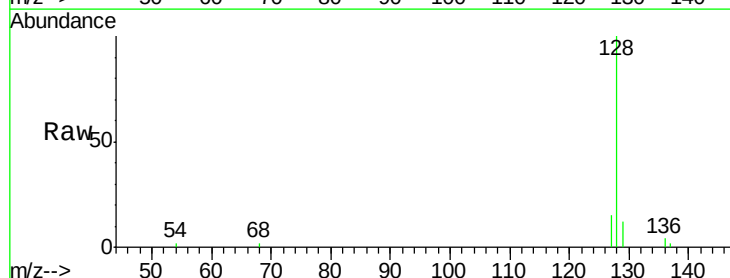
Tgt Ion: 128 Resp: 4851

Ion Ratio Lower Upper

128 100

129 12.4 9.0 13.6

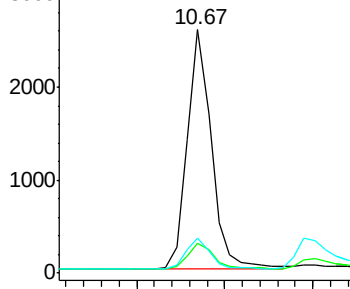
127 14.5 9.6 14.4#



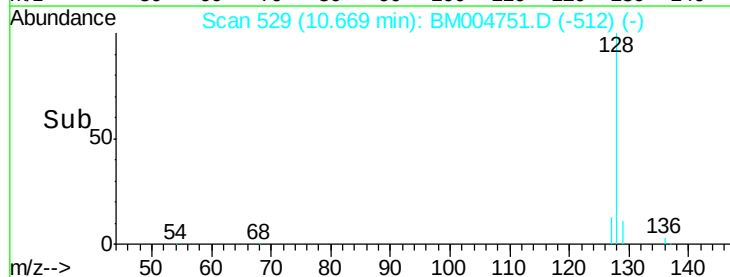
Abundance Ion 128.00 (127.70 to 128.70): BM004740.D (-522) (-)

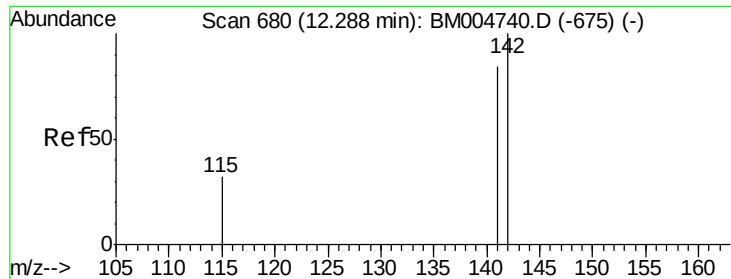
Ion 129.00 (128.70 to 129.70): BM004740.D (-522) (-)

Ion 127.00 (126.70 to 127.70): BM004740.D (-522) (-)



Time-->





#7

2-Methylnaphthalene

Concen: 0.44 ng/ul

RT: 12.28 min Scan# 679

Delta R.T. -0.01 min

Lab File: BM004751.D

Acq: 24 Mar 2016 10:50

Instrument :

BNA\_M

ClientSampleId :

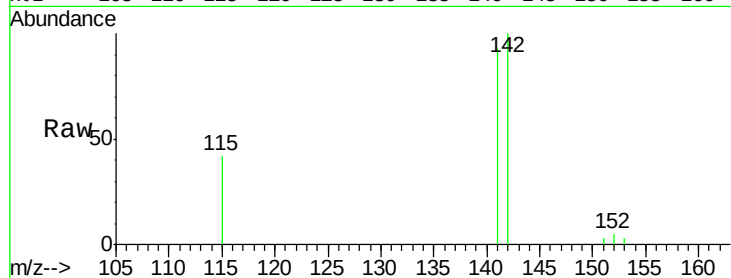
SSTD0.466

Tgt Ion:142 Resp: 3140

Ion Ratio Lower Upper

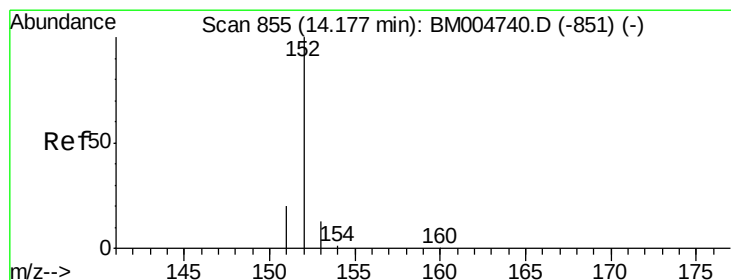
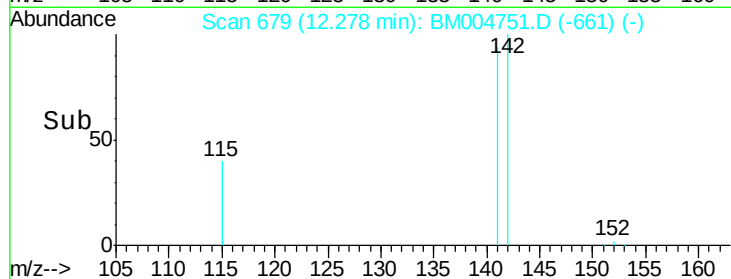
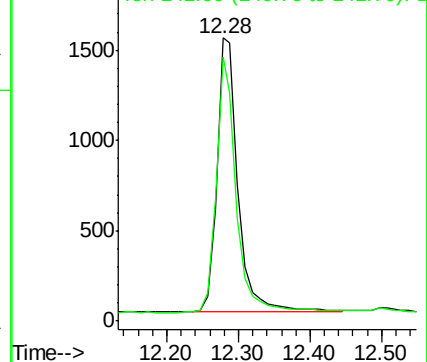
142 100

141 88.7 70.3 105.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E



#9

Acenaphthylene

Concen: 0.43 ng/ul

RT: 14.18 min Scan# 855

Delta R.T. 0.00 min

Lab File: BM004751.D

Acq: 24 Mar 2016 10:50

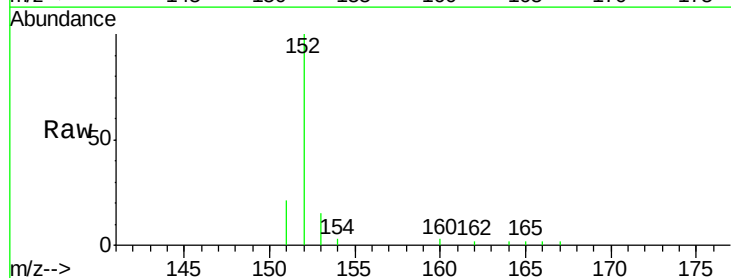
Tgt Ion:152 Resp: 3585

Ion Ratio Lower Upper

152 100

151 20.8 17.6 26.4

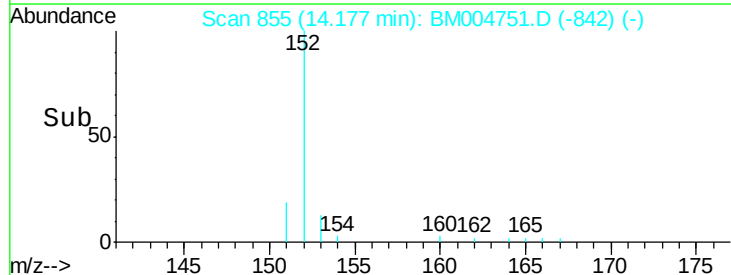
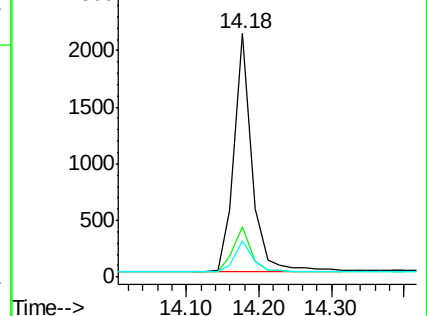
153 14.9 9.7 14.5#

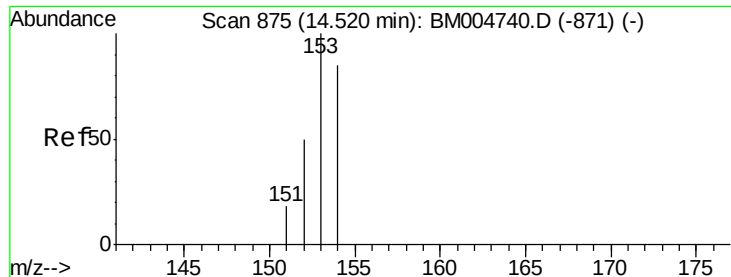


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#10

Acenaphthene

Concen: 0.42 ng/ul

RT: 14.52 min Scan# 875

Delta R.T. 0.00 min

Lab File: BM004751.D

Acq: 24 Mar 2016 10:50

Instrument :

BNA\_M

ClientSampleId :

SSTD0.466

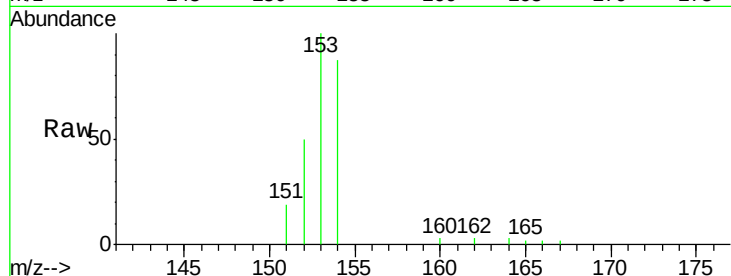
Tgt Ion:153 Resp: 3194

Ion Ratio Lower Upper

153 100

152 50.3 33.9 50.9

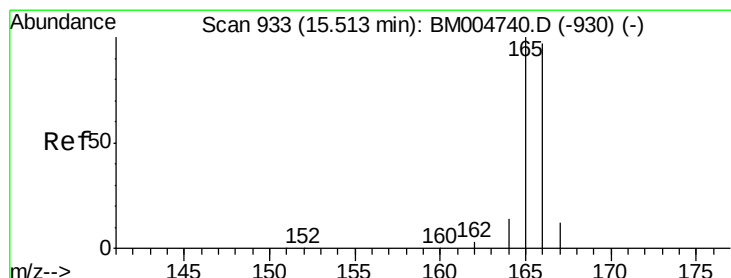
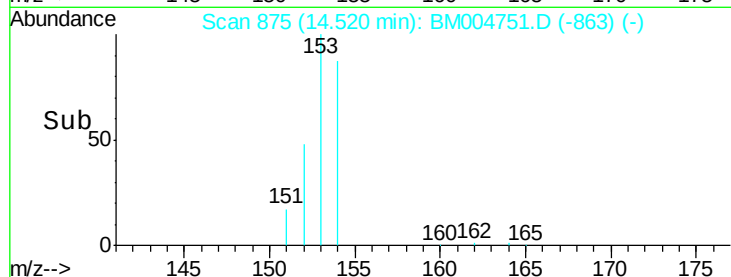
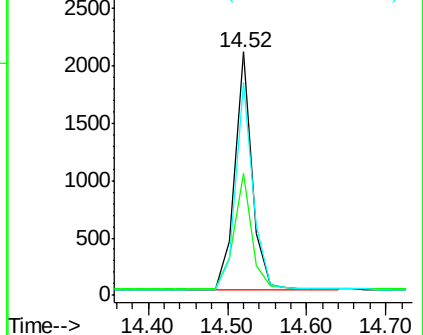
154 87.2 80.6 121.0



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: 0.42 ng/ul

RT: 15.51 min Scan# 933

Delta R.T. 0.00 min

Lab File: BM004751.D

Acq: 24 Mar 2016 10:50

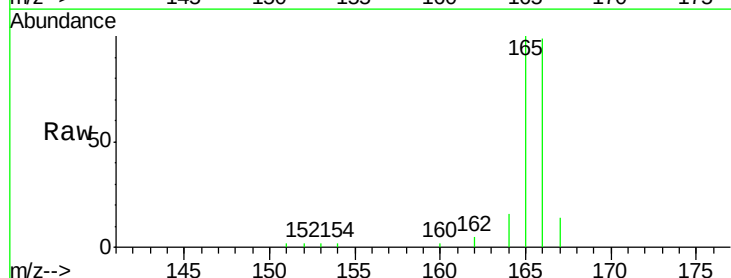
Tgt Ion:166 Resp: 3378

Ion Ratio Lower Upper

166 100

165 101.1 69.6 104.4

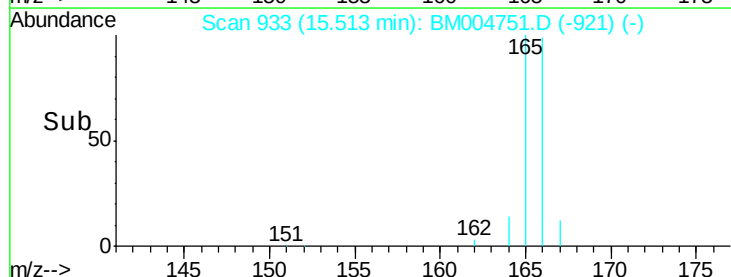
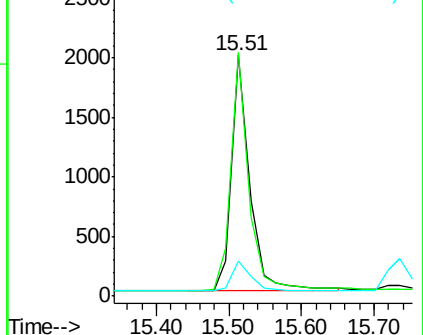
167 14.5 11.9 17.9

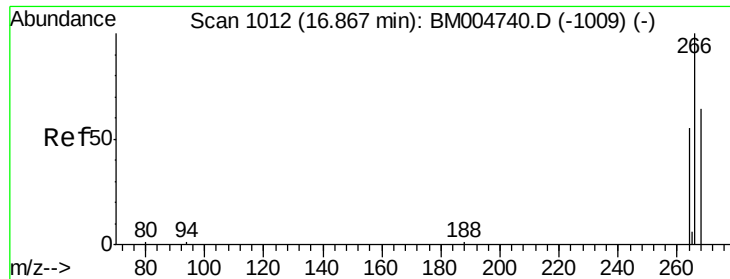


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

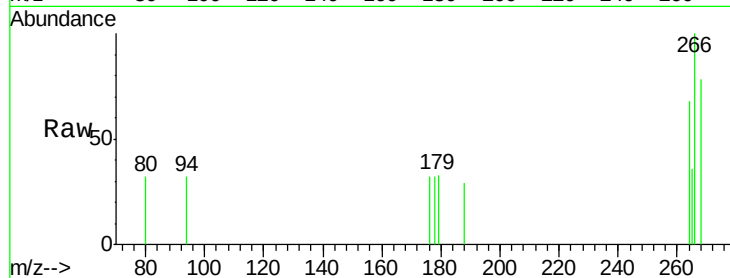




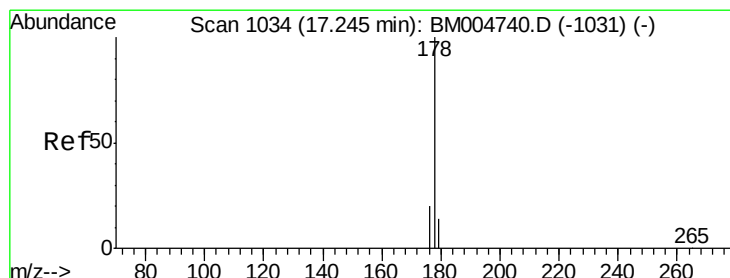
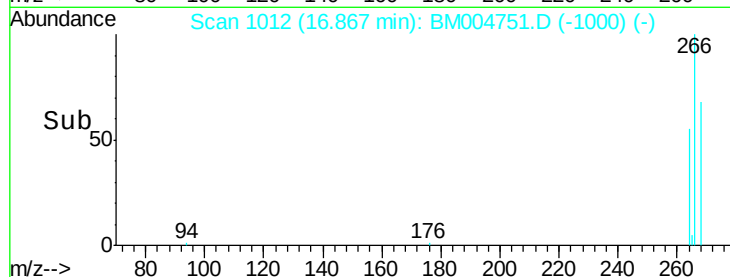
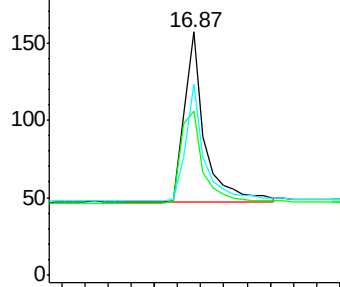
#13  
 Pentachlorophenol  
 Concen: 0.43 ng/ul  
 RT: 16.87 min Scan# 1012  
 Delta R.T. 0.00 min  
 Lab File: BM004751.D  
 Acq: 24 Mar 2016 10:50

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD0.466

Tgt Ion: 266 Resp: 270  
 Ion Ratio Lower Upper  
 266 100  
 264 61.5 51.8 77.8  
 268 62.2 46.8 70.2

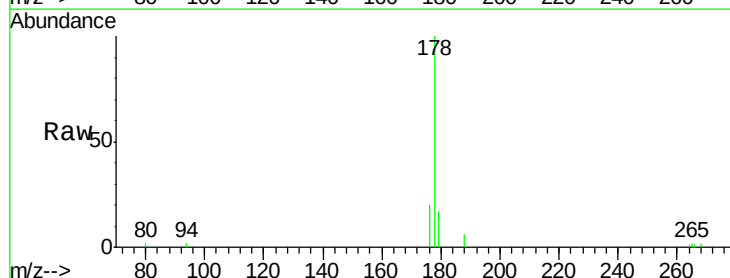


Abundance Ion 266.00 (265.70 to 266.70): E  
 Ion 264.00 (263.70 to 264.70): E  
 Ion 268.00 (267.70 to 268.70): E

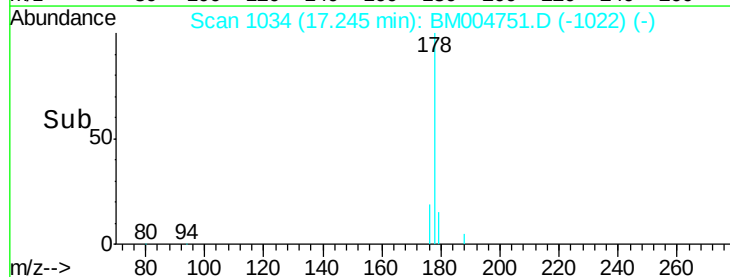
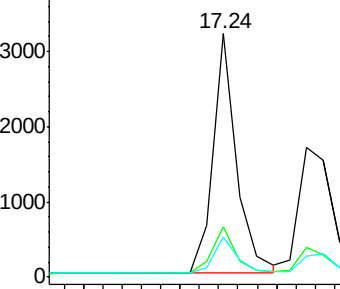


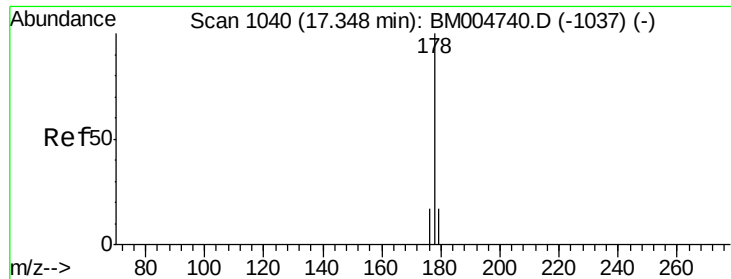
#14  
 Phenanthrene  
 Concen: 0.41 ng/ul  
 RT: 17.24 min Scan# 1034  
 Delta R.T. 0.00 min  
 Lab File: BM004751.D  
 Acq: 24 Mar 2016 10:50

Tgt Ion: 178 Resp: 5340  
 Ion Ratio Lower Upper  
 178 100  
 176 20.4 13.0 19.4#  
 179 16.6 14.2 21.2



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

Anthracene

Concen: 0.51 ng/ul

RT: 17.24 min Scan# 1034

Delta R.T. -0.10 min

Lab File: BM004751.D

Acq: 24 Mar 2016 10:50

Instrument :

BNA\_M

ClientSampleId :

SSTD0.466

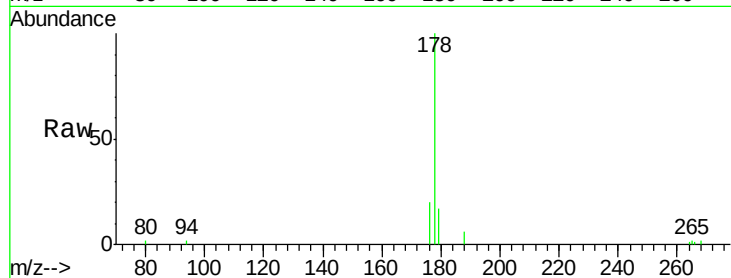
Tgt Ion:178 Resp: 5332

Ion Ratio Lower Upper

178 100

176 20.4 14.0 21.0

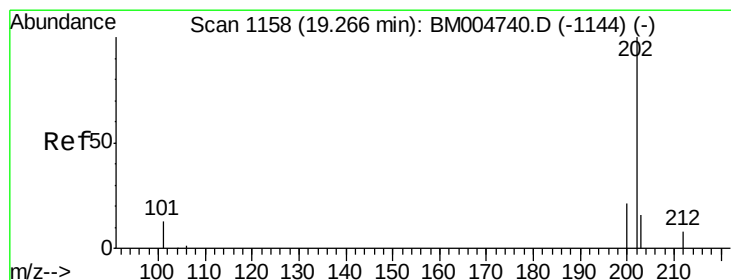
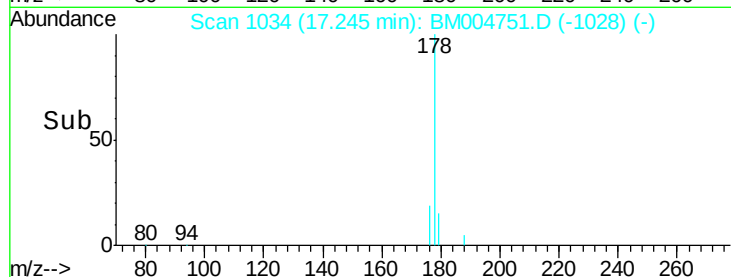
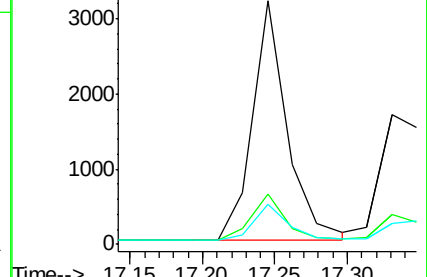
179 16.6 12.9 19.3



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: 0.41 ng/ul

RT: 19.27 min Scan# 1158

Delta R.T. 0.00 min

Lab File: BM004751.D

Acq: 24 Mar 2016 10:50

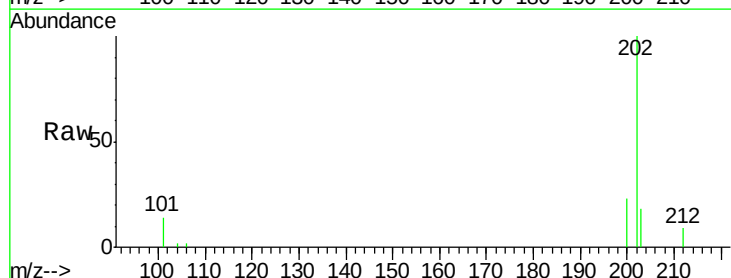
Tgt Ion:202 Resp: 5426

Ion Ratio Lower Upper

202 100

101 14.0 0.0 29.6

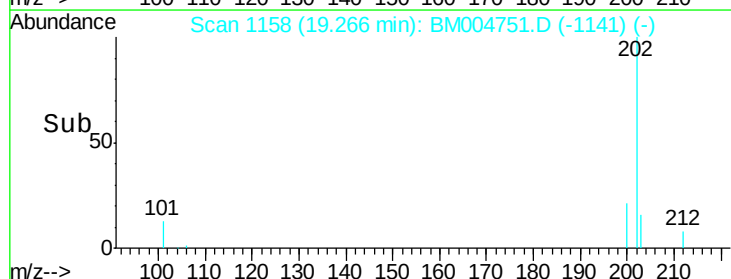
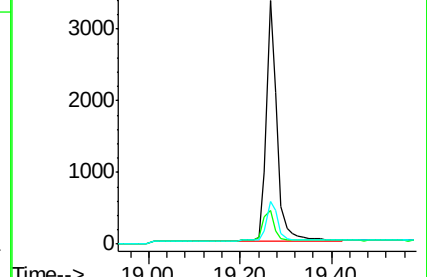
203 17.6 0.0 36.3

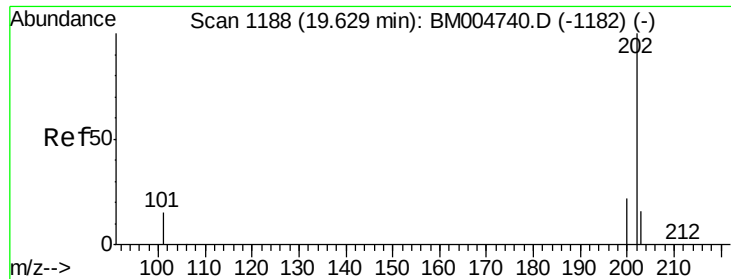


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Pyrene

Concen: 0.43 ng/ul

RT: 19.63 min Scan# 1188

Delta R.T. 0.00 min

Lab File: BM004751.D

Acq: 24 Mar 2016 10:50

Instrument :

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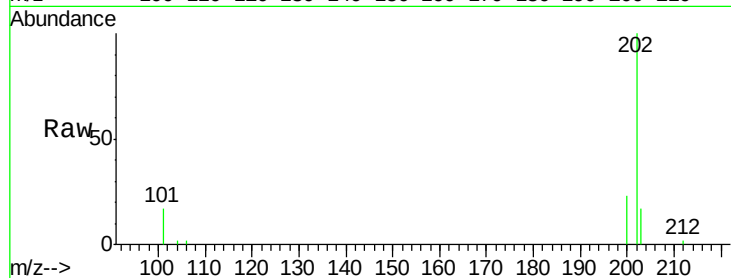
Tgt Ion:202 Resp: 5483

Ion Ratio Lower Upper

202 100

200 23.4 17.8 26.8

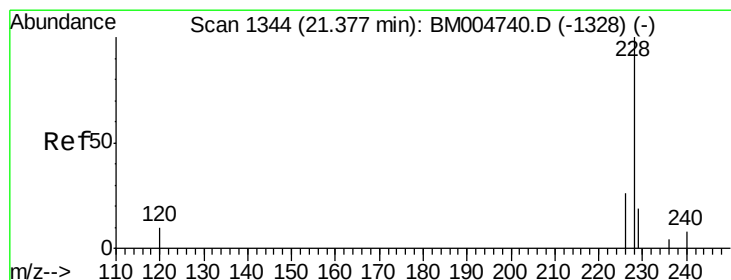
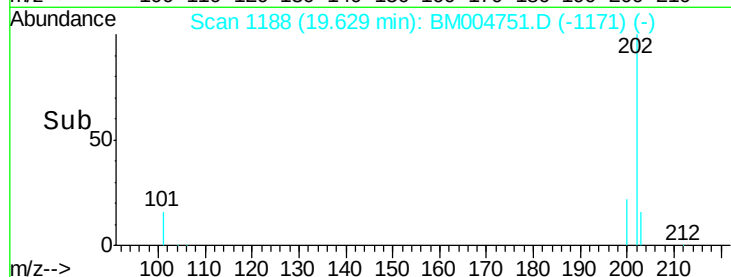
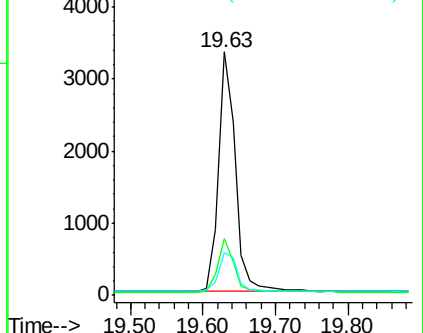
203 17.5 12.8 19.2



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



#20

Benzo(a)anthracene

Concen: 0.42 ng/ul

RT: 21.38 min Scan# 1344

Delta R.T. 0.00 min

Lab File: BM004751.D

Acq: 24 Mar 2016 10:50

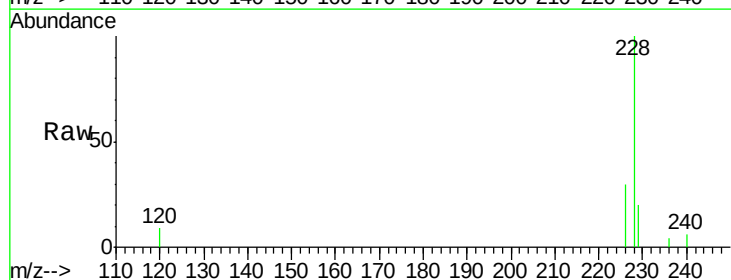
Tgt Ion:228 Resp: 3672

Ion Ratio Lower Upper

228 100

226 30.0 18.8 28.2#

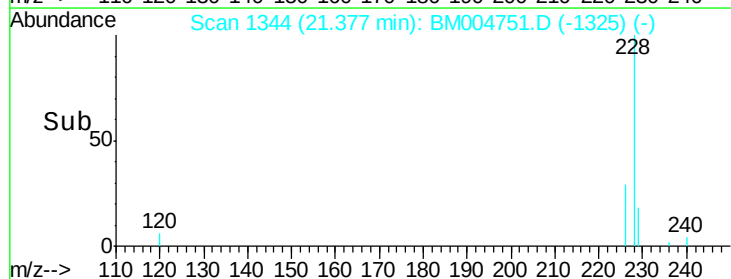
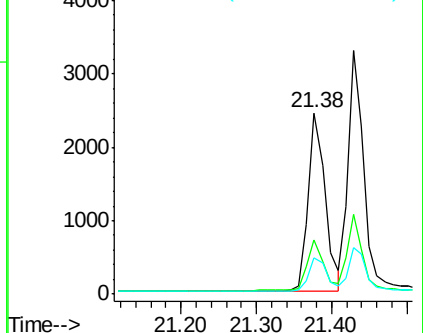
229 20.0 17.1 25.7



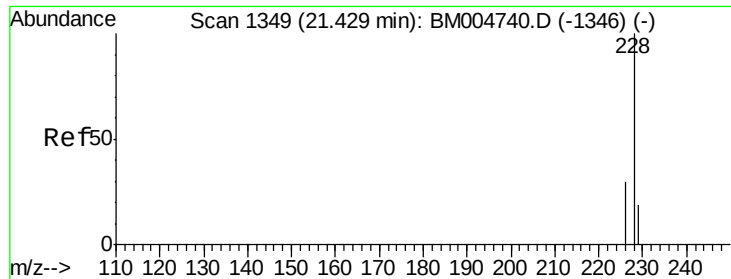
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E







#21

Chrysene

Concen: 0.31 ng/ul

RT: 21.38 min Scan# 1344

Delta R.T. -0.05 min

Lab File: BM004751.D

Acq: 24 Mar 2016 10:50

Instrument :

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ClientSampleId :

SSTD0.466

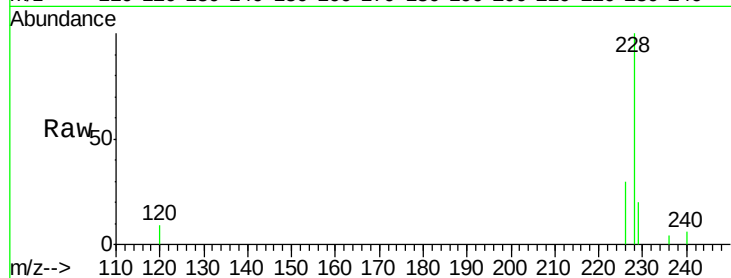
Tgt Ion:228 Resp: 3672

Ion Ratio Lower Upper

228 100

226 30.0 21.2 31.8

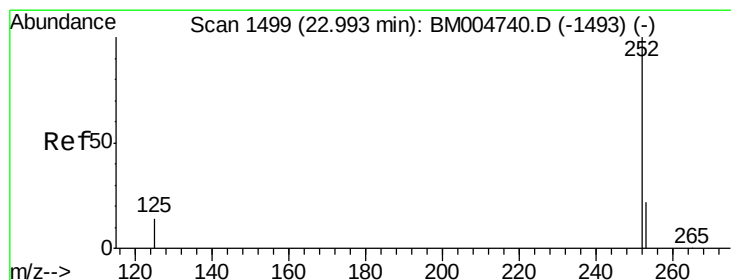
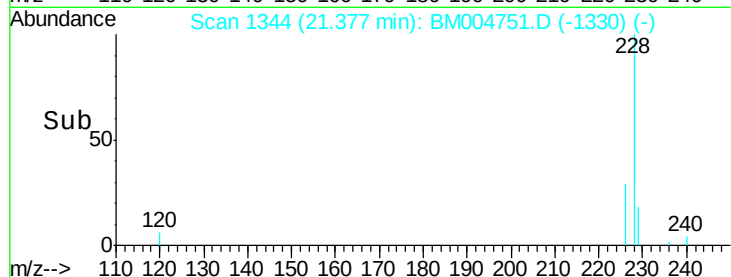
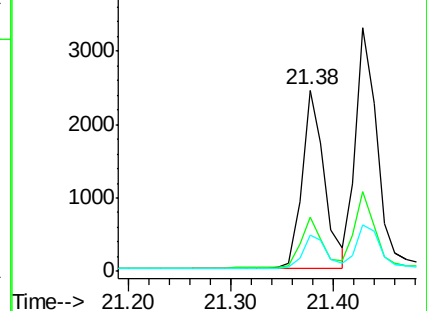
229 20.0 17.0 25.6



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



#23

Benzo(b)fluoranthene

Concen: 0.41 ng/ul

RT: 22.99 min Scan# 1499

Delta R.T. 0.00 min

Lab File: BM004751.D

Acq: 24 Mar 2016 10:50

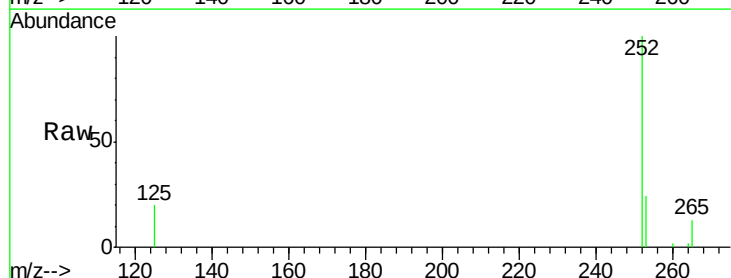
Tgt Ion:252 Resp: 3986

Ion Ratio Lower Upper

252 100

253 24.3 0.0 45.4

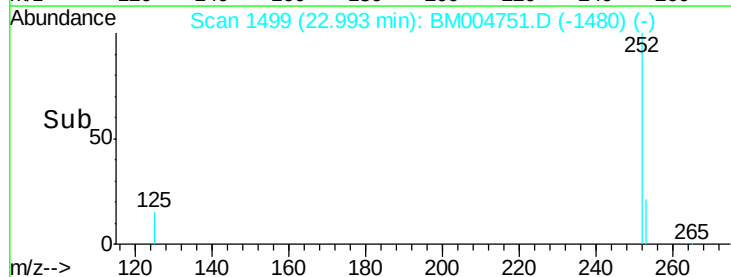
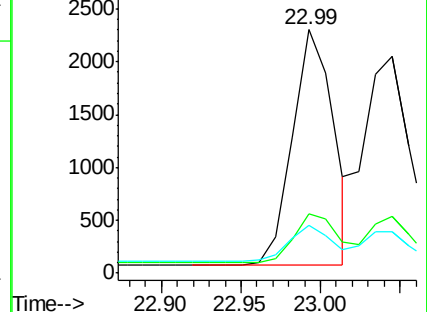
125 19.7 0.0 28.8

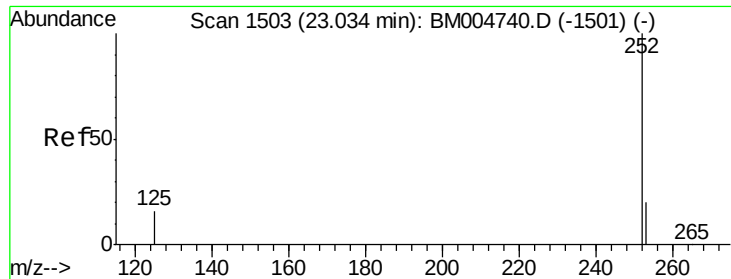


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#24

Benzo(k)fluoranthene

Concen: 0.42 ng/ul

RT: 23.04 min Scan# 1504

Delta R.T. 0.01 min

Lab File: BM004751.D

Acq: 24 Mar 2016 10:50

Instrument :

BNA\_M

ClientSampleId :

SSTD0.466

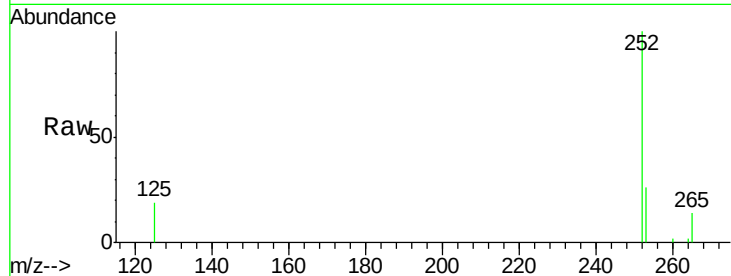
Tgt Ion:252 Resp: 4172

Ion Ratio Lower Upper

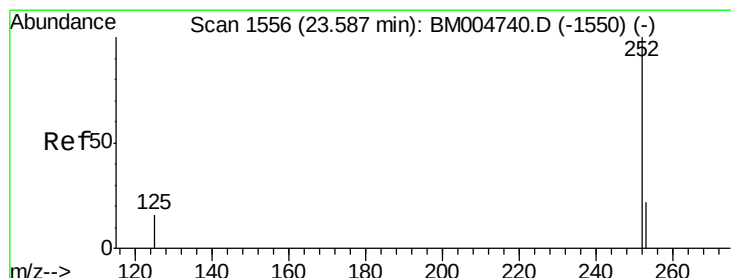
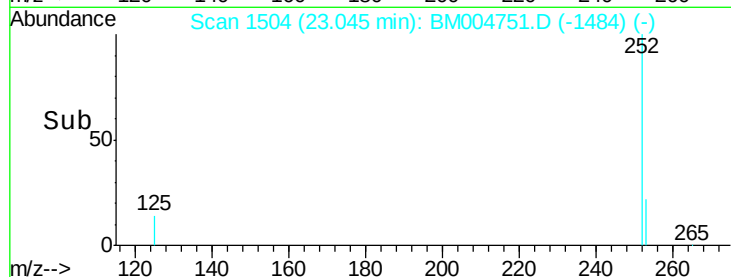
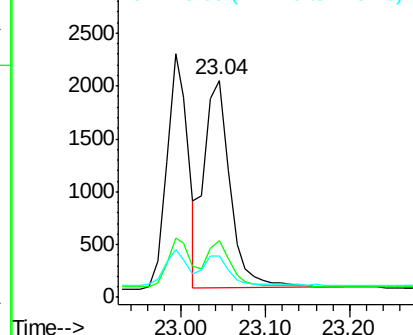
252 100

253 26.1 19.8 29.8

125 18.9 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: 0.42 ng/ul

RT: 23.59 min Scan# 1556

Delta R.T. 0.00 min

Lab File: BM004751.D

Acq: 24 Mar 2016 10:50

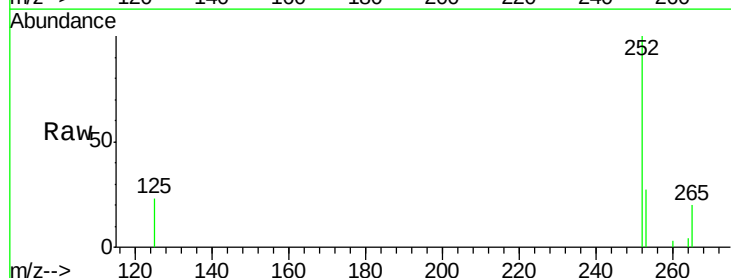
Tgt Ion:252 Resp: 3452

Ion Ratio Lower Upper

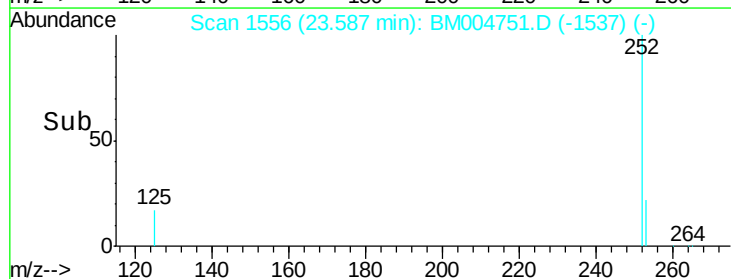
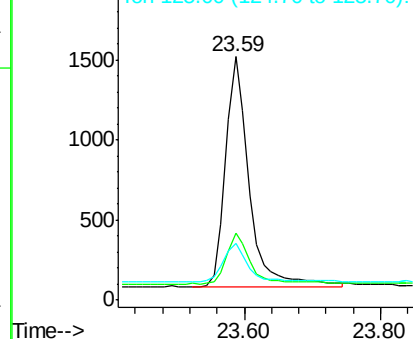
252 100

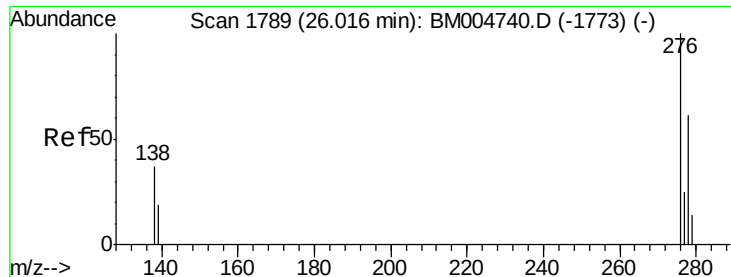
253 27.3 19.4 29.2

125 23.3 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: 0.41 ng/ul

RT: 26.02 min Scan# 1789

Delta R.T. 0.00 min

Lab File: BM004751.D

Acq: 24 Mar 2016 10:50

Instrument :

BNA\_M

ClientSampleId :

SSTD0.466

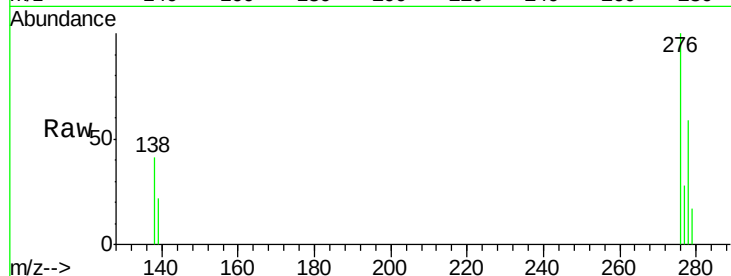
Tgt Ion:276 Resp: 3734

Ion Ratio Lower Upper

276 100

138 38.9 16.3 24.5#

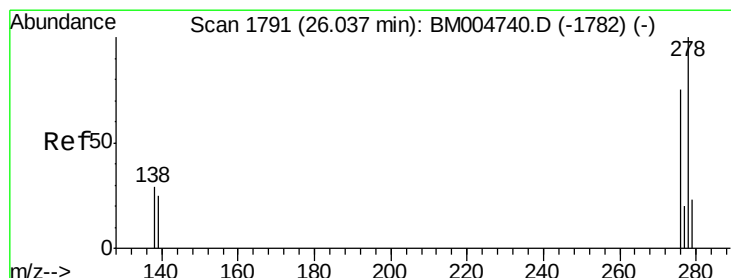
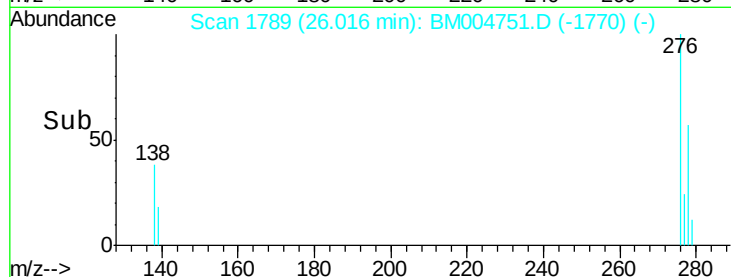
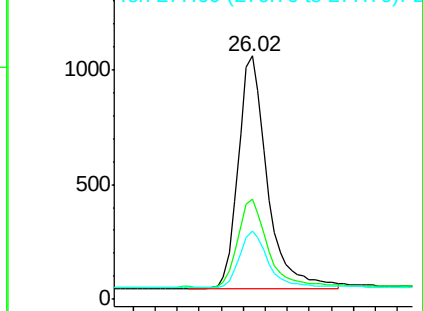
277 24.5 19.8 29.8



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: 0.41 ng/ul

RT: 26.04 min Scan# 1791

Delta R.T. 0.00 min

Lab File: BM004751.D

Acq: 24 Mar 2016 10:50

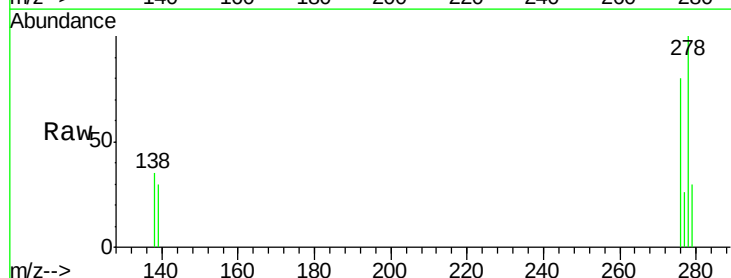
Tgt Ion:278 Resp: 2865

Ion Ratio Lower Upper

278 100

139 29.6 16.4 24.6#

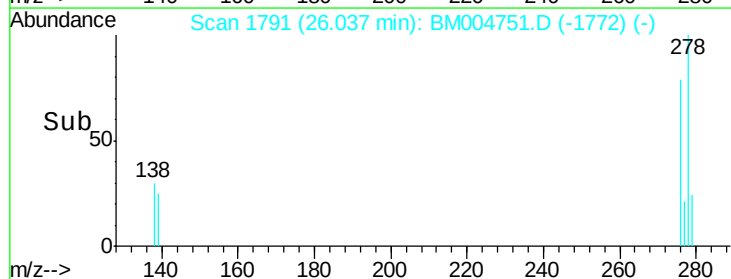
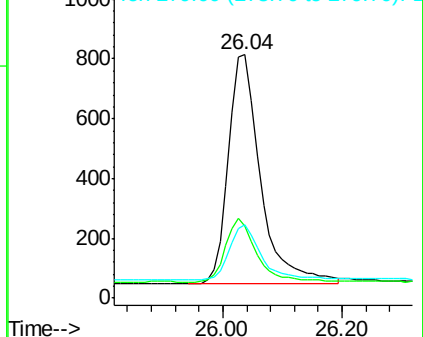
279 30.3 20.2 30.2#

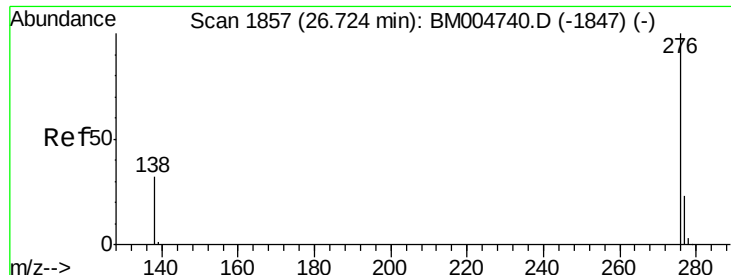


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.41 ng/ul

RT: 26.72 min Scan# 1857

Delta R.T. 0.00 min

Lab File: BM004751.D

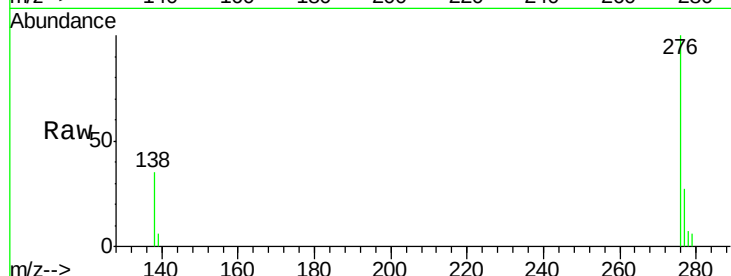
Acq: 24 Mar 2016 10:50

Instrument :

BNA\_M

ClientSampleId :

SSTD0.466



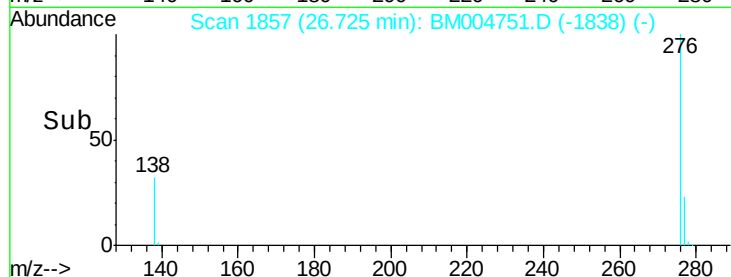
Tgt Ion: 276 Resp: 3503

Ion Ratio Lower Upper

276 100

277 27.1 18.9 28.3

138 35.5 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

