

Data Path : Z:\HPCHEM1\BNA M\DATA\BM033115\  
 Data File : BM000787.D  
 Acq On : 01 Apr 2015 14:55  
 Operator : TP/IZ  
 Sample : MDL-07-W  
 Misc : MDL-WATER-0.1/0.2PPM  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Apr 01 15:48:28 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SIMPAH-BM033115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 01 04:17:30 2015  
 Response via : Initial Calibration

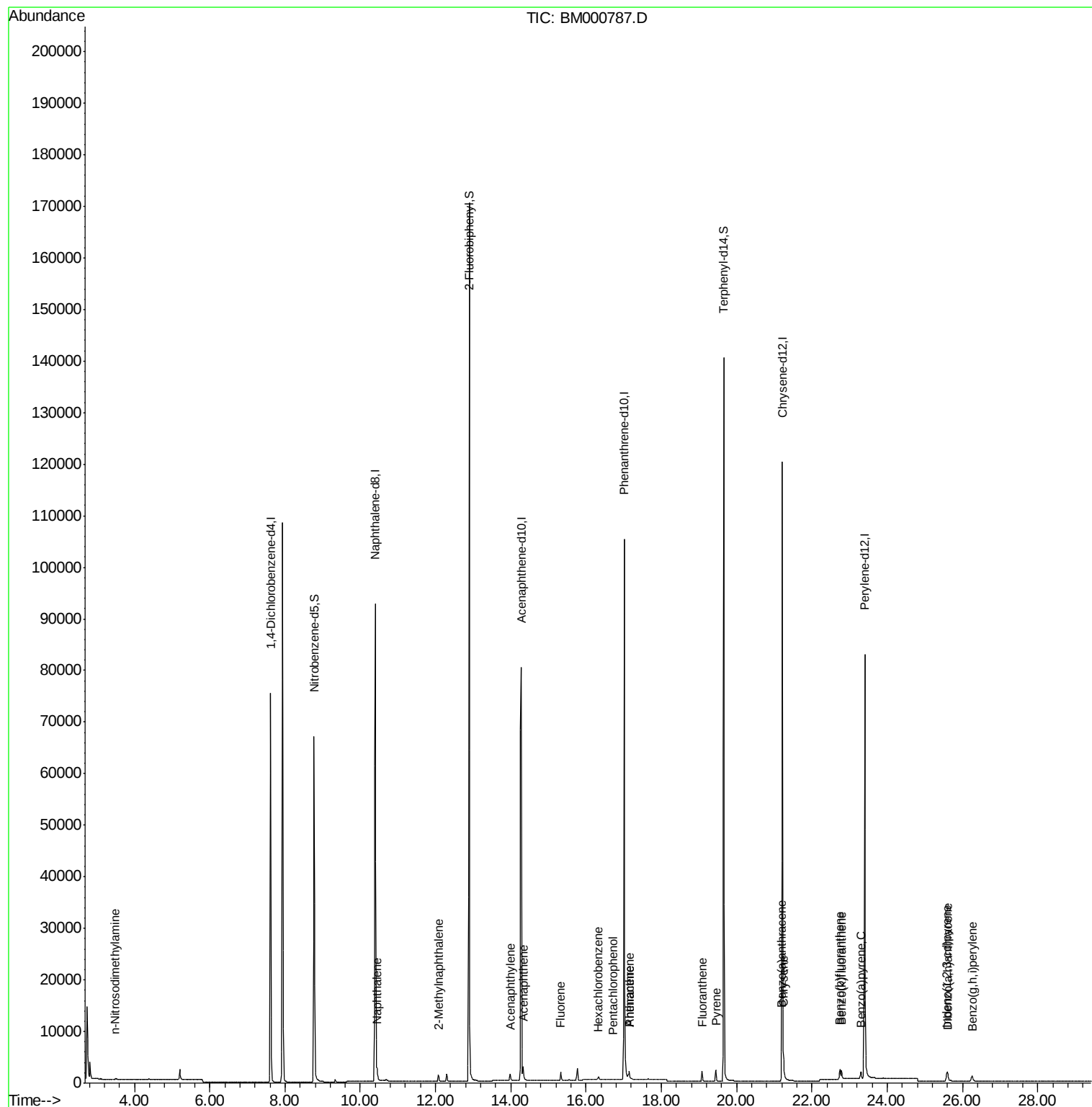
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.62  | 152  | 37572    | 5.00  | ng    | 0.00     |
| 4) Naphthalene-d8           | 10.40 | 136  | 125635   | 5.00  | ng    | 0.00     |
| 8) Acenaphthene-d10         | 14.28 | 164  | 60572    | 5.00  | ng    | 0.00     |
| 13) Phenanthrene-d10        | 17.01 | 188  | 136670   | 5.00  | ng    | 0.00     |
| 19) Chrysene-d12            | 21.21 | 240  | 113674   | 5.00  | ng    | 0.00     |
| 25) Perylene-d12            | 23.40 | 264  | 105211   | 5.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) Nitrobenzene-d5          | 8.77  | 82   | 58319    | 7.57  | ng    | 0.00     |
| 9) 2-Fluorobiphenyl         | 12.89 | 172  | 174360   | 9.28  | ng    | 0.00     |
| 21) Terphenyl-d14           | 19.66 | 244  | 139870   | 10.23 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       | Ovalue   |
| 3) n-Nitrosodimethylamine   | 3.48  | 42   | 61       | 0.17  | ng    | # 1      |
| 6) Naphthalene              | 10.45 | 128  | 2129     | 0.07  | ng    | # 92     |
| 7) 2-Methylnaphthalene      | 12.08 | 142  | 1242     | 0.07  | ng    | 96       |
| 10) Acenaphthylene          | 13.99 | 152  | 1617     | 0.06  | ng    | 99       |
| 11) Acenaphthene            | 14.33 | 154  | 1263     | 0.07  | ng    | 97       |
| 12) Fluorene                | 15.32 | 166  | 1471     | 0.07  | ng    | 97       |
| 14) Hexachlorobenzene       | 16.33 | 284  | 587      | 0.07  | ng    | # 96     |
| 15) Pentachlorophenol       | 16.72 | 266  | 4        | 0.36  | ng    | # 56     |
| 16) Phenanthrene            | 17.15 | 178  | 2126     | 0.06  | ng    | 97       |
| 17) Anthracene              | 17.15 | 178  | 2169     | 0.07  | ng    | 99       |
| 18) Fluoranthene            | 19.09 | 202  | 2576     | 0.07  | ng    | 99       |
| 20) Pyrene                  | 19.45 | 202  | 2657     | 0.07  | ng    | 99       |
| 22) Benzo(a)anthracene      | 21.19 | 228  | 2588     | 0.08  | ng    | # 91     |
| 23) Chrysene                | 21.24 | 228  | 2806     | 0.08  | ng    | 96       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.59 | 276  | 2519     | 0.07  | ng    | 99       |
| 26) Benzo(b)fluoranthene    | 22.74 | 252  | 2332     | 0.07  | ng    | # 79     |
| 27) Benzo(k)fluoranthene    | 22.79 | 252  | 2406     | 0.08  | ng    | # 78     |
| 28) Benzo(a)pyrene          | 23.30 | 252  | 2087     | 0.07  | ng    | # 71     |
| 29) Dibenzo(a,h)anthracene  | 25.61 | 278  | 1998     | 0.07  | ng    | # 83     |
| 30) Benzo(a,h,i)perylene    | 26.26 | 276  | 2339     | 0.08  | ng    | # 91     |

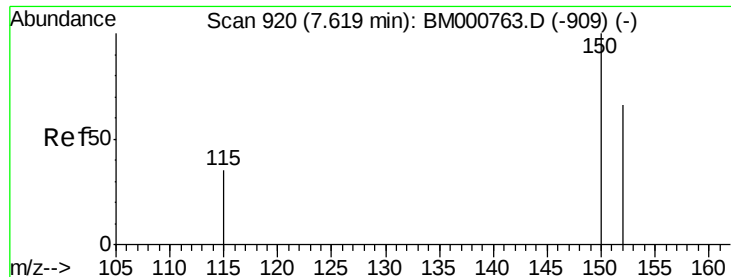
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA M\DATA\BM033115\  
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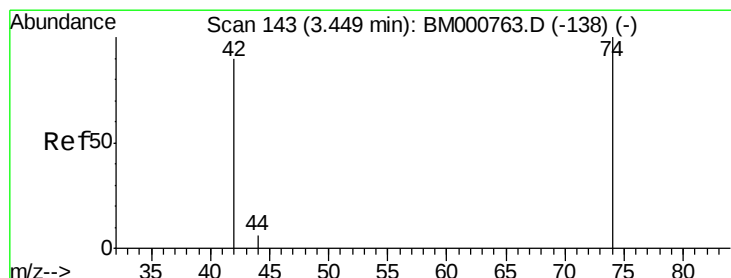
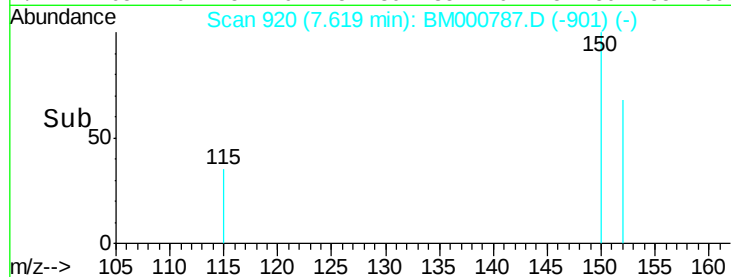
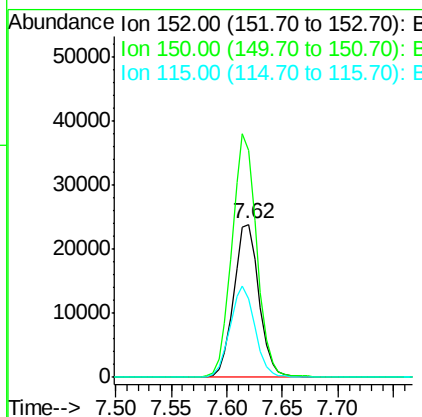
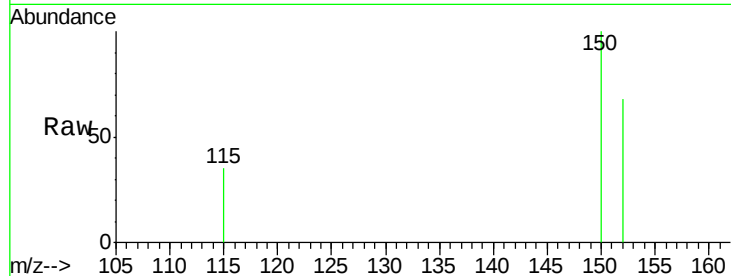


#1

1,4-Dichlorobenzene-d4  
Concen: 5.00 ng  
RT: 7.62 min Scan# 920  
Delta R.T. 0.00 min  
Lab File: BM000787.D  
Acq: 01 Apr 2015 14:55

Instrument :  
BNA\_M  
ClientSampleId :

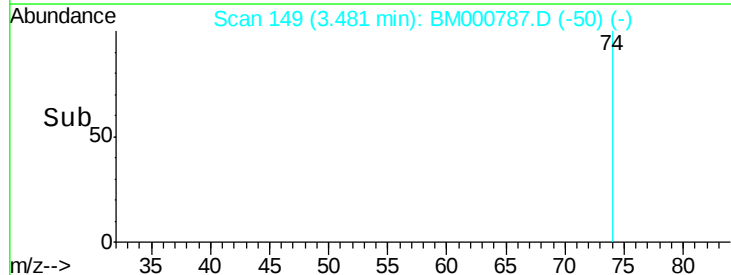
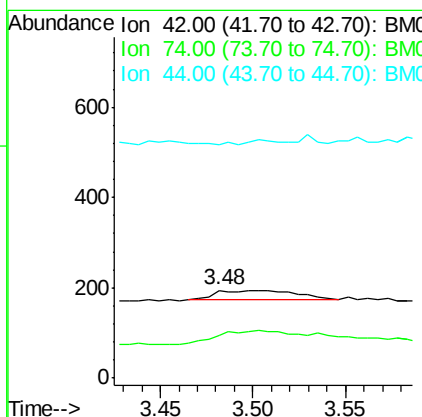
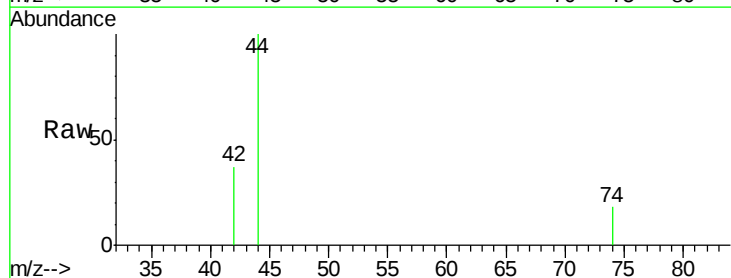
Tot Ion:152 Resp: 37572  
Ion Ratio Lower Upper  
152 100  
150 148.0 120.8 181.2  
115 51.4 42.7 64.1

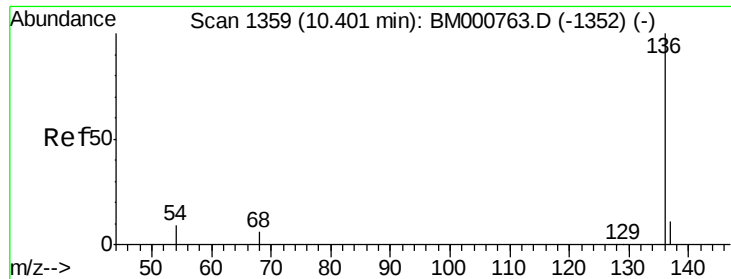


#3

n-Nitrosodimethylamine  
Concen: 0.17 ng  
RT: 3.48 min Scan# 149  
Delta R.T. 0.03 min  
Lab File: BM000787.D  
Acq: 01 Apr 2015 14:55

Tgt Ion: 42 Resp: 61  
Ion Ratio Lower Upper  
42 100  
74 0.0 93.6 140.4#  
44 0.0 6.3 9.5#

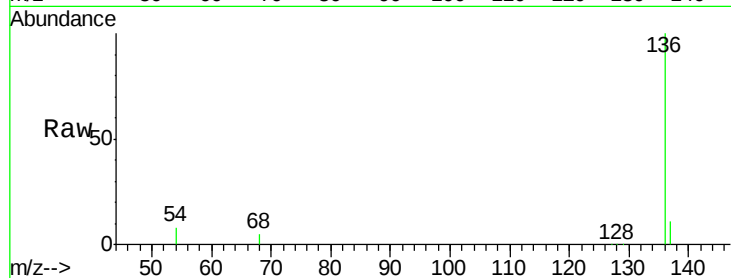




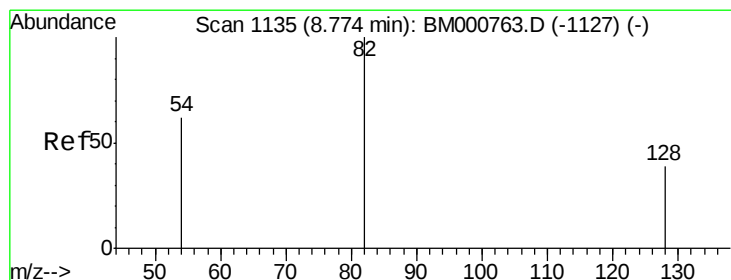
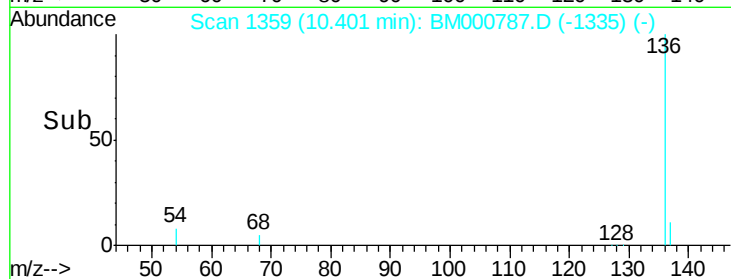
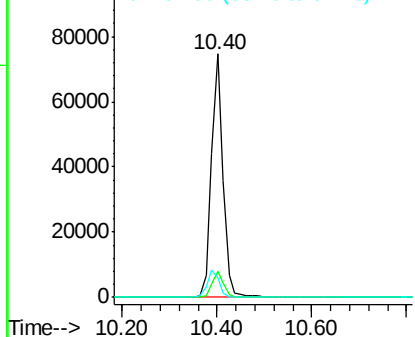
#4  
Naphthalene-d8  
Concen: 5.00 ng  
RT: 10.40 min Scan# 1359  
Delta R.T. 0.00 min  
Lab File: BM000787.D  
Acq: 01 Apr 2015 14:55

Instrument :  
BNA\_M  
ClientSampled :

Tot Ion:136 Resp: 125635  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.6 12.8  
54 7.8 7.0 10.6

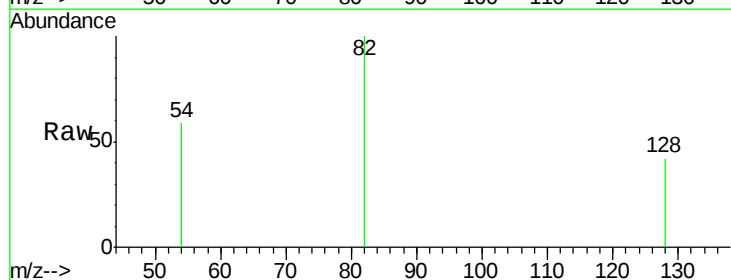


Abundance Ion 136.00 (135.70 to 136.70): B  
Ion 137.00 (136.70 to 137.70): B  
Ion 54.00 (53.70 to 54.70): B

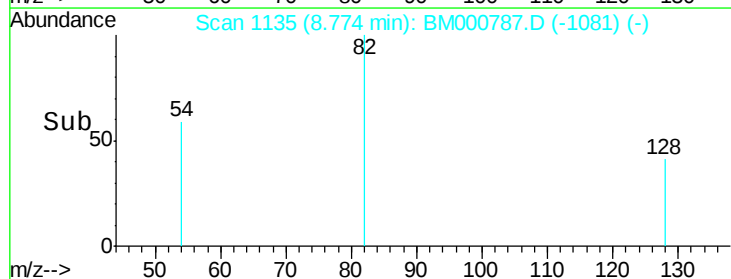
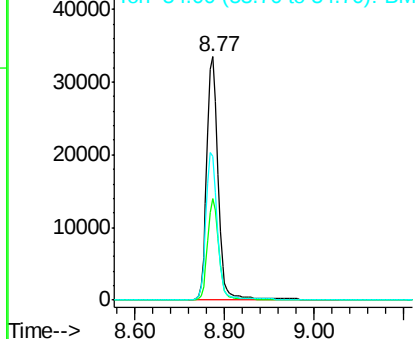


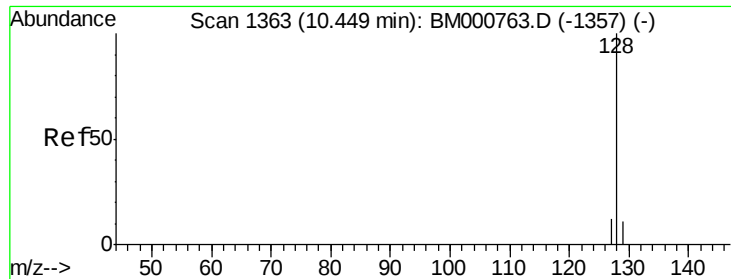
#5  
Nitrobenzene-d5  
Concen: 7.57 ng  
RT: 8.77 min Scan# 1135  
Delta R.T. 0.00 min  
Lab File: BM000787.D  
Acq: 01 Apr 2015 14:55

Tgt Ion: 82 Resp: 58319  
Ion Ratio Lower Upper  
82 100  
128 41.5 32.2 48.2  
54 58.9 50.2 75.4



Abundance Ion 82.00 (81.70 to 82.70): B  
Ion 128.00 (127.70 to 128.70): B  
Ion 54.00 (53.70 to 54.70): B





#6

Naphthalene

Concen: 0.07 ng

RT: 10.45 min Scan# 1363

Delta R.T. 0.00 min

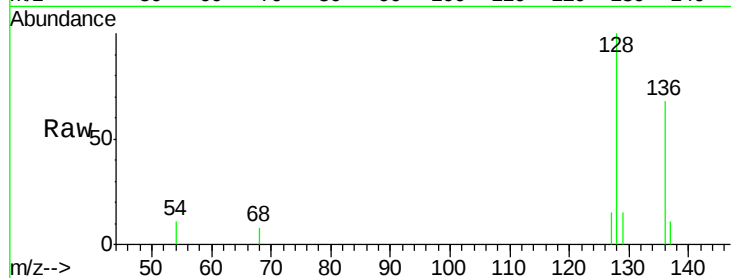
Lab File: BM000787.D

Acq: 01 Apr 2015 14:55

Instrument :

BNA\_M

ClientSampleId :



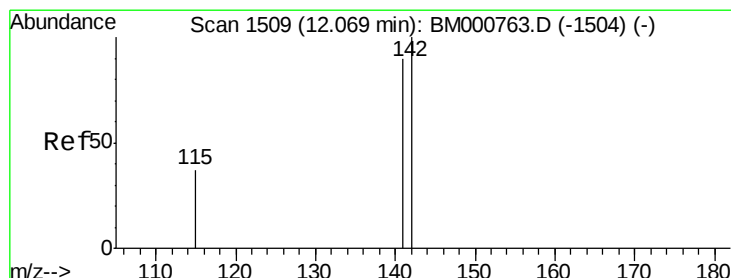
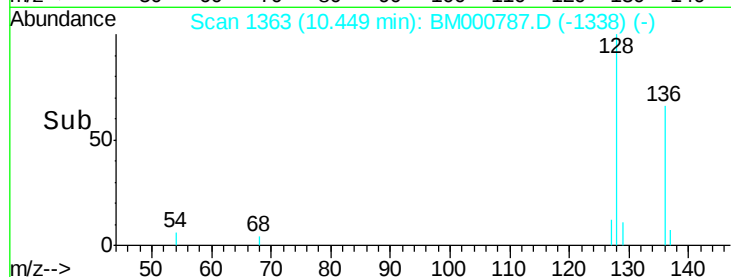
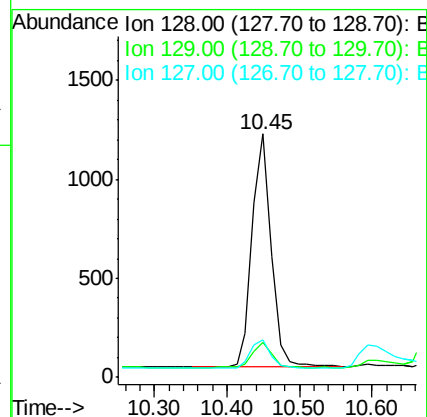
Tot Ion:128 Resp: 2129

Ion Ratio Lower Upper

128 100

129 14.6 8.9 13.3#

127 15.4 10.0 15.0#



#7

2-Methylnaphthalene

Concen: 0.07 ng

RT: 12.08 min Scan# 1510

Delta R.T. 0.01 min

Lab File: BM000787.D

Acq: 01 Apr 2015 14:55

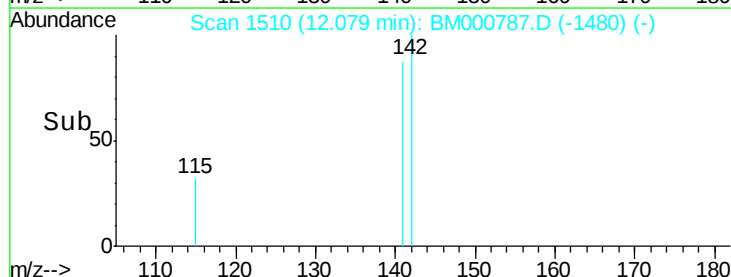
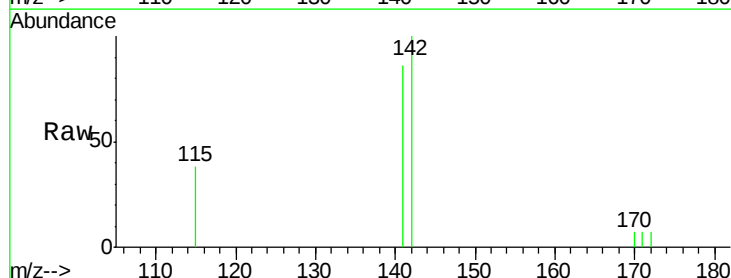
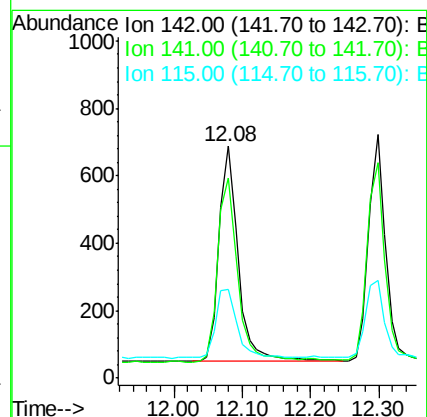
Tgt Ion:142 Resp: 1242

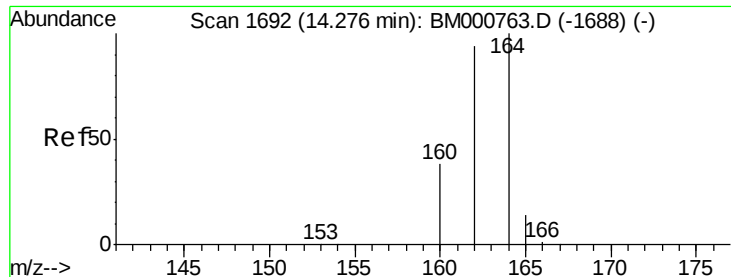
Ion Ratio Lower Upper

142 100

141 86.3 72.3 108.5

115 38.2 29.5 44.3





#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.28 min Scan# 1692

Delta R.T. 0.00 min

Lab File: BM000787.D

Acq: 01 Apr 2015 14:55

Instrument :

BNA\_M

ClientSampleId :

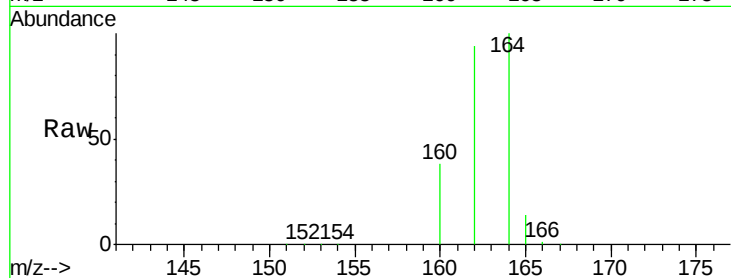
Tot Ion:164 Resp: 60572

Ion Ratio Lower Upper

164 100

162 93.5 75.4 113.2

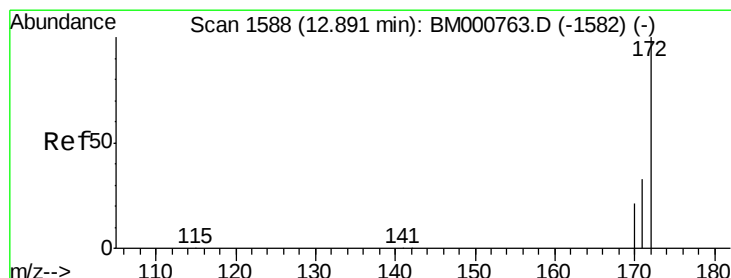
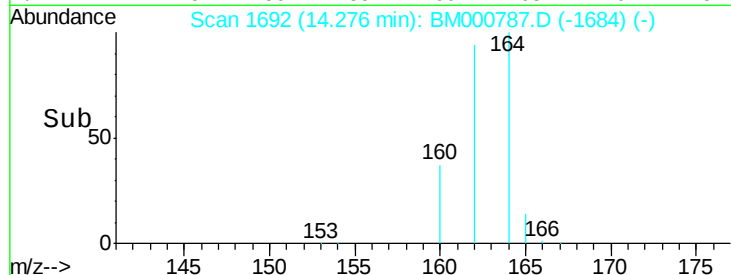
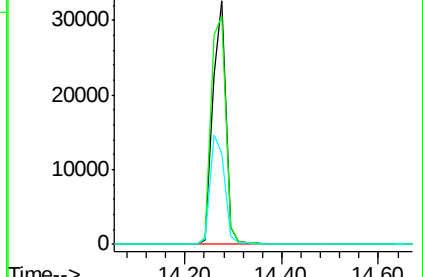
160 37.5 30.8 46.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#9

2-Fluorobiphenyl

Concen: 9.28 ng

RT: 12.89 min Scan# 1588

Delta R.T. 0.00 min

Lab File: BM000787.D

Acq: 01 Apr 2015 14:55

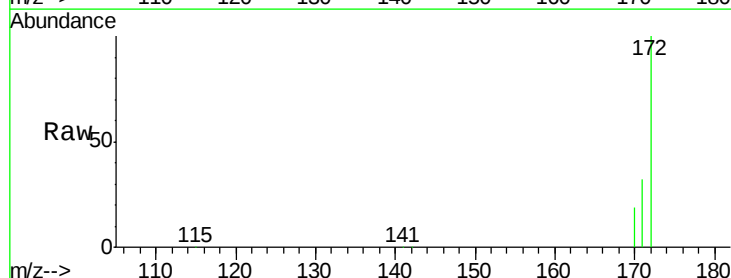
Tgt Ion:172 Resp: 174360

Ion Ratio Lower Upper

172 100

171 31.8 26.6 39.8

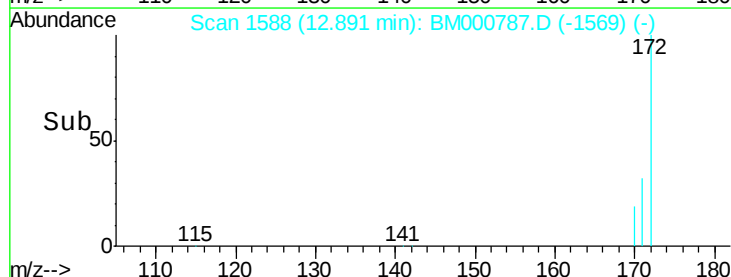
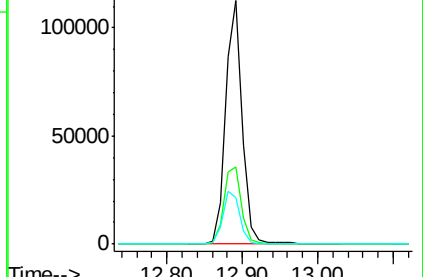
170 19.3 17.1 25.7

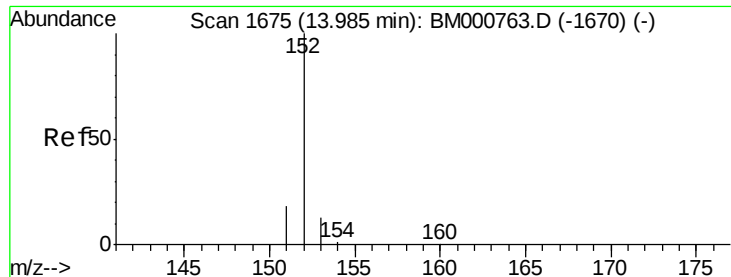


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#10

Acenaphthylene

Concen: 0.06 ng

RT: 13.99 min Scan# 1675

Delta R.T. 0.00 min

Lab File: BM000787.D

Acq: 01 Apr 2015 14:55

Instrument :

BNA\_M

ClientSampleId :

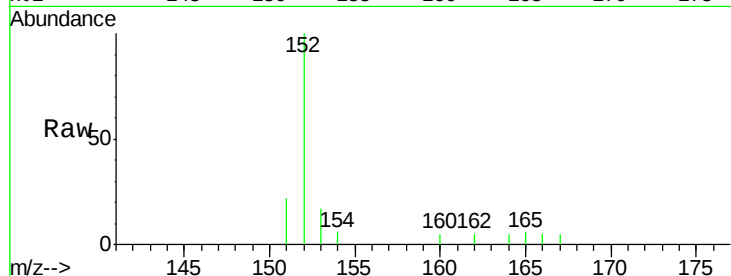
Tot Ion:152 Resp: 1617

Ion Ratio Lower Upper

152 100

151 19.4 15.1 22.7

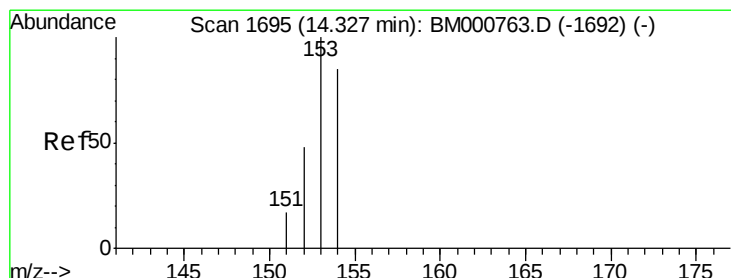
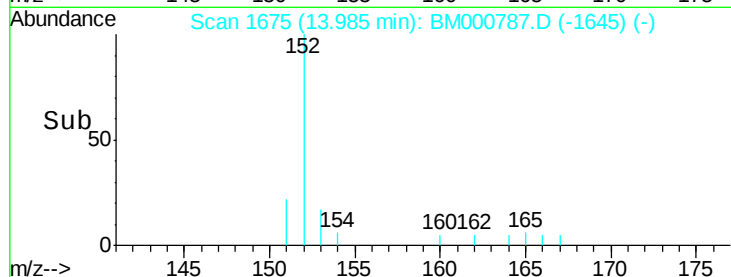
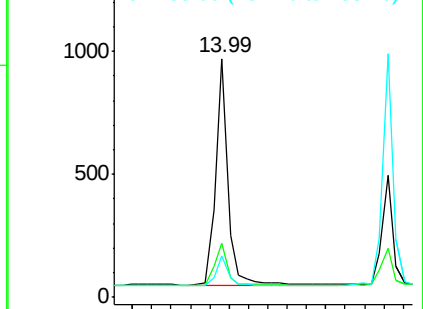
153 13.2 10.2 15.4



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



#11

Acenaphthene

Concen: 0.07 ng

RT: 14.33 min Scan# 1695

Delta R.T. 0.00 min

Lab File: BM000787.D

Acq: 01 Apr 2015 14:55

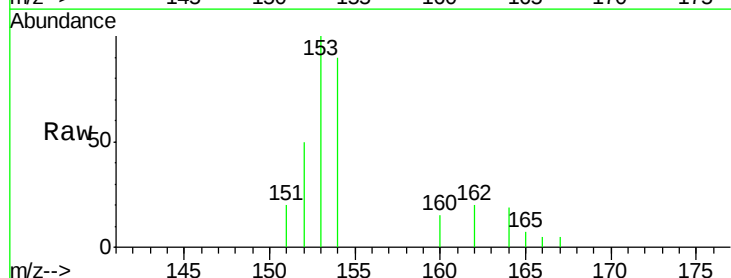
Tgt Ion:154 Resp: 1263

Ion Ratio Lower Upper

154 100

153 113.2 87.3 130.9

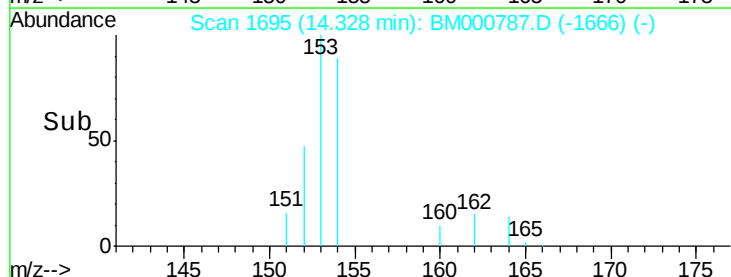
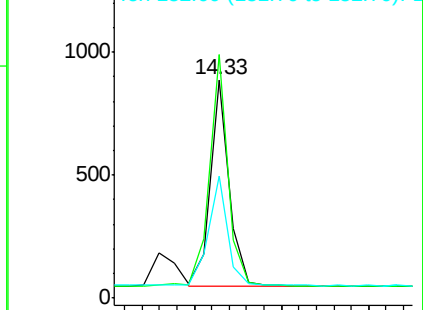
152 54.8 43.0 64.6

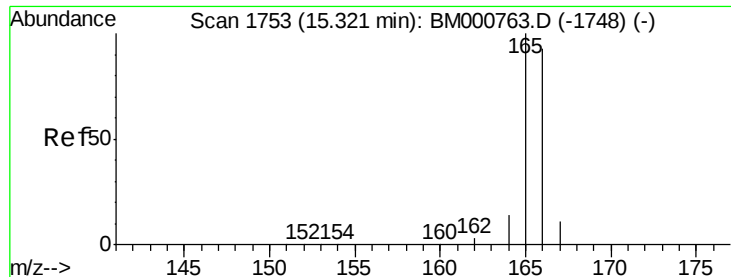


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#12

Fluorene

Concen: 0.07 ng

RT: 15.32 min Scan# 1753

Delta R.T. 0.00 min

Lab File: BM000787.D

Acq: 01 Apr 2015 14:55

Instrument :

BNA\_M

ClientSampleId :

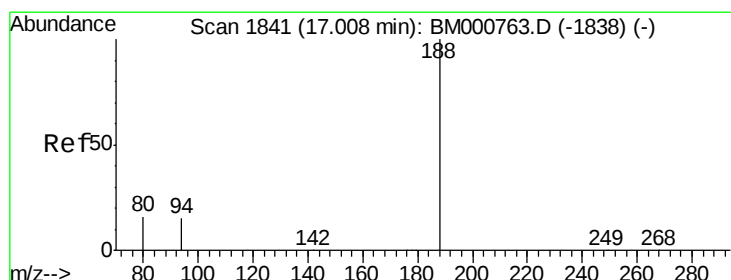
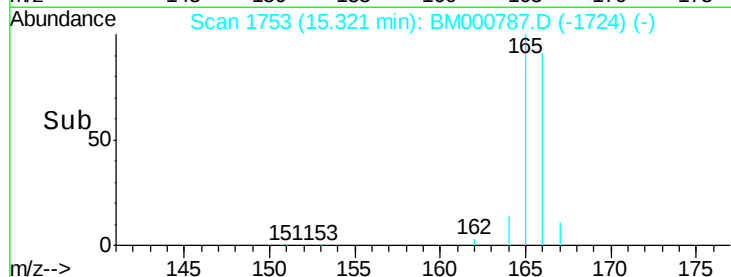
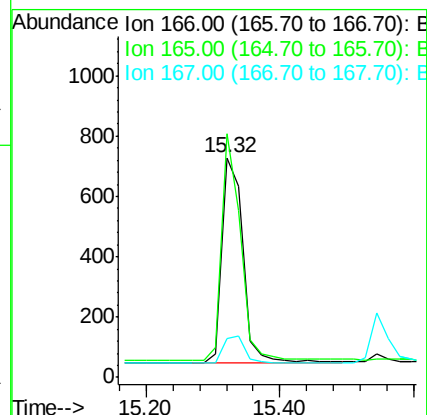
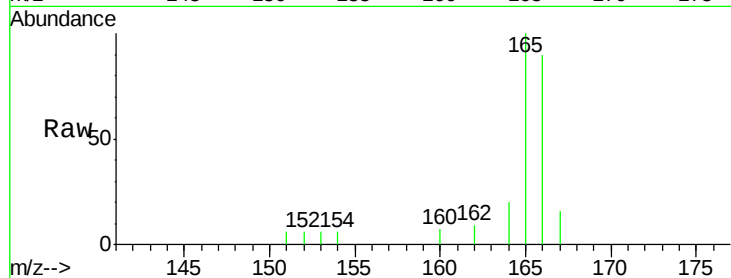
Tot Ion:166 Resp: 1471

Ion Ratio Lower Upper

166 100

165 100.5 78.2 117.2

167 13.0 10.7 16.1



#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.01 min Scan# 1841

Delta R.T. 0.00 min

Lab File: BM000787.D

Acq: 01 Apr 2015 14:55

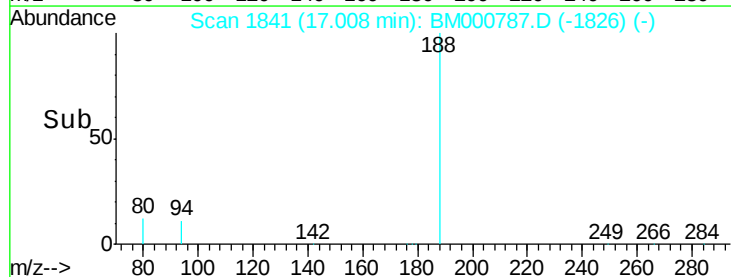
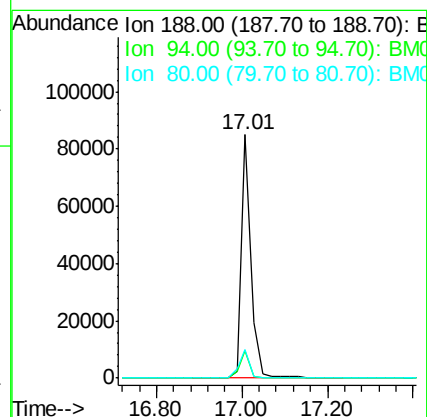
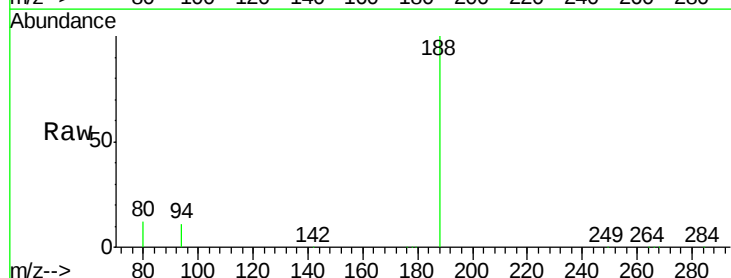
Tgt Ion:188 Resp: 136670

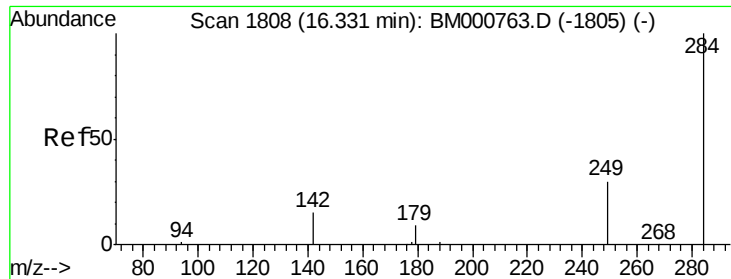
Ion Ratio Lower Upper

188 100

94 11.4 12.0 18.0#

80 11.6 12.8 19.2#

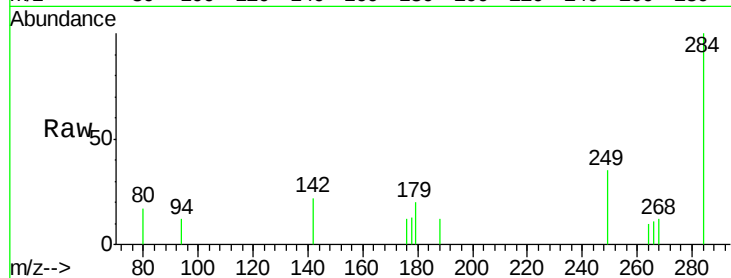




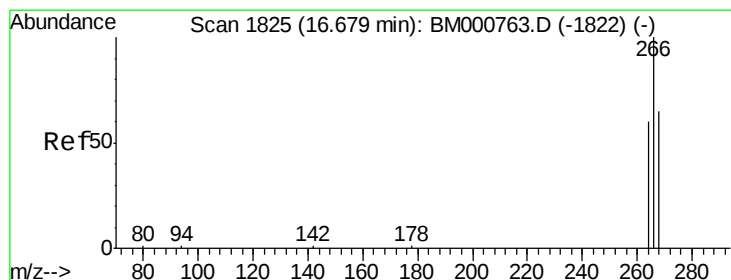
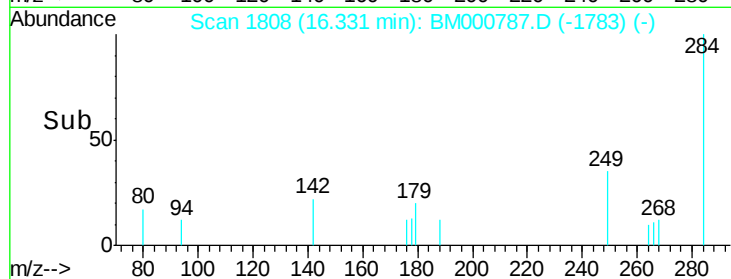
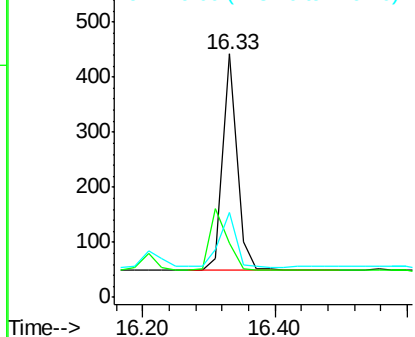
#14  
Hexachlorobenzene  
Concen: 0.07 ng  
RT: 16.33 min Scan# 1808  
Delta R.T. 0.00 min  
Lab File: BM000787.D  
Acq: 01 Apr 2015 14:55

Instrument :  
BNA\_M  
ClientSampleId :

Tot Ion:284 Resp: 587  
Ion Ratio Lower Upper  
284 100  
142 0.0 0.0 0.0  
249 29.1 25.2 37.8

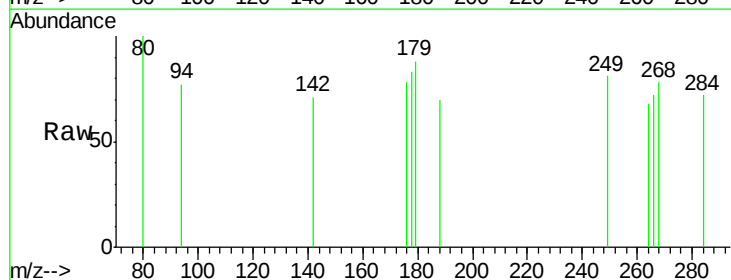


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

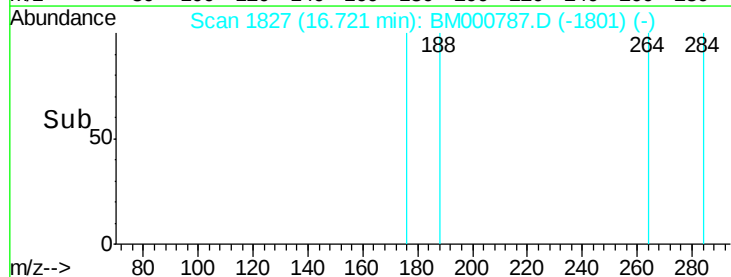
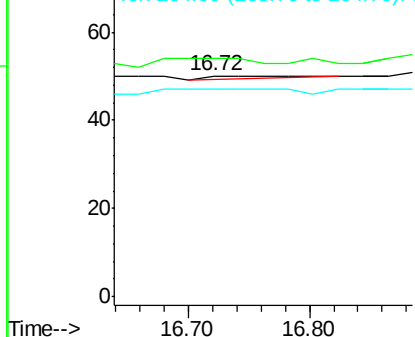


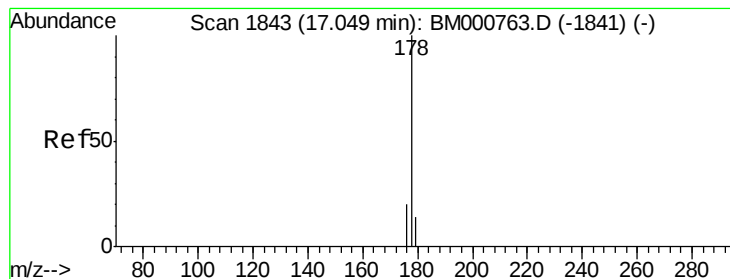
#15  
Pentachlorophenol  
Concen: 0.36 ng  
RT: 16.72 min Scan# 1827  
Delta R.T. 0.04 min  
Lab File: BM000787.D  
Acq: 01 Apr 2015 14:55

Tgt Ion:266 Resp: 4  
Ion Ratio Lower Upper  
266 100  
268 108.0 55.0 82.6#  
264 94.0 51.0 76.4#



Abundance Ion 265.70 (265.40 to 266.40): E  
Ion 268.00 (267.70 to 268.70): E  
Ion 264.00 (263.70 to 264.70): E





#16

Phenanthrene

Concen: 0.06 ng

RT: 17.15 min Scan# 1848

Delta R.T. 0.10 min

Lab File: BM000787.D

Acq: 01 Apr 2015 14:55

Instrument :

BNA\_M

ClientSampleId :

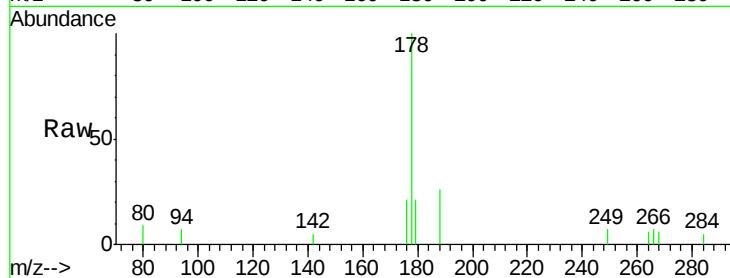
Tot Ion:178 Resp: 2126

Ion Ratio Lower Upper

178 100

176 17.7 15.3 22.9

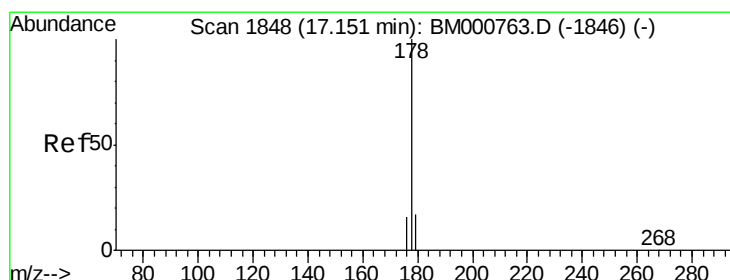
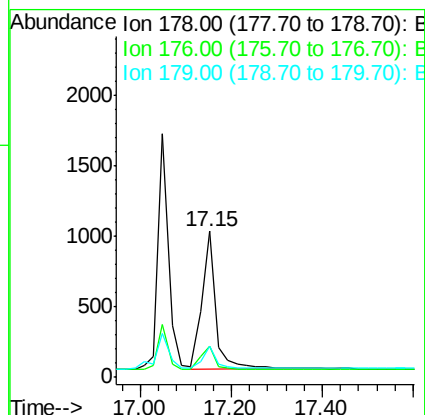
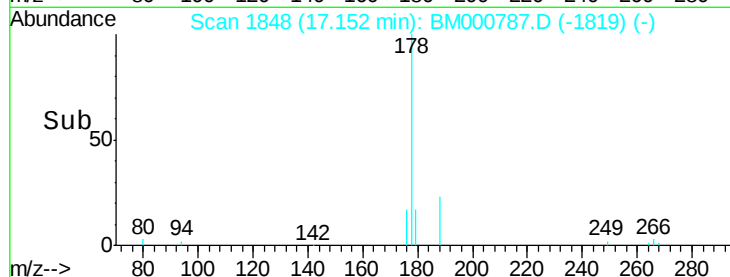
179 16.1 12.2 18.2



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



#17

Anthracene

Concen: 0.07 ng

RT: 17.15 min Scan# 1848

Delta R.T. 0.00 min

Lab File: BM000787.D

Acq: 01 Apr 2015 14:55

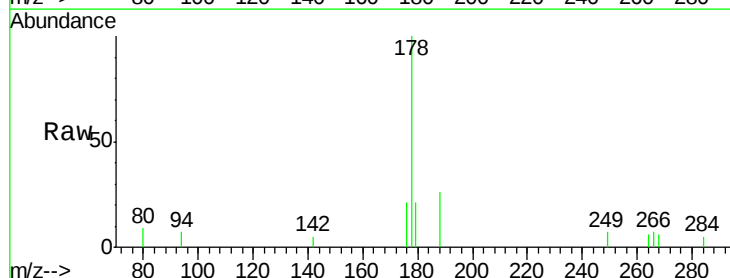
Tgt Ion:178 Resp: 2169

Ion Ratio Lower Upper

178 100

176 18.0 14.6 22.0

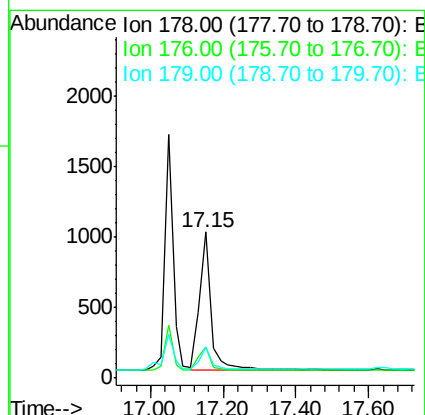
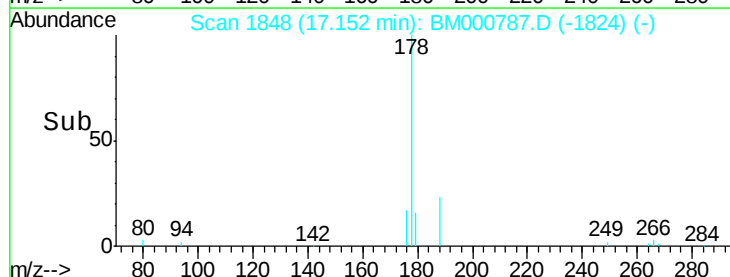
179 15.8 12.2 18.4

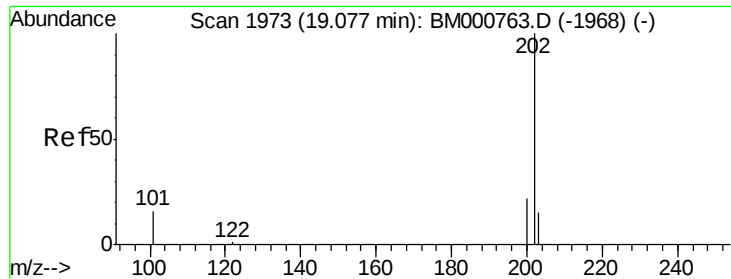


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

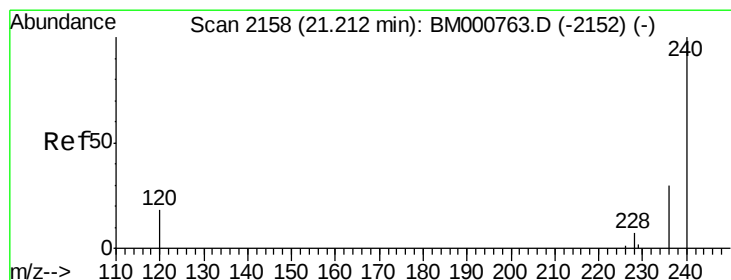
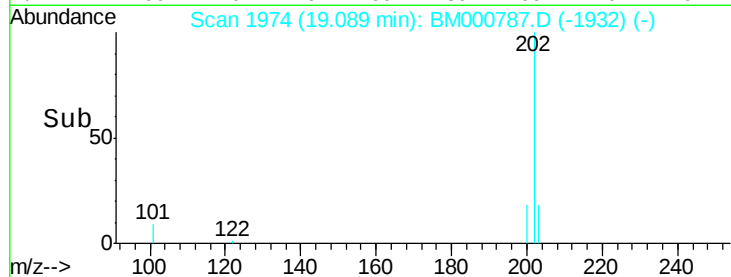
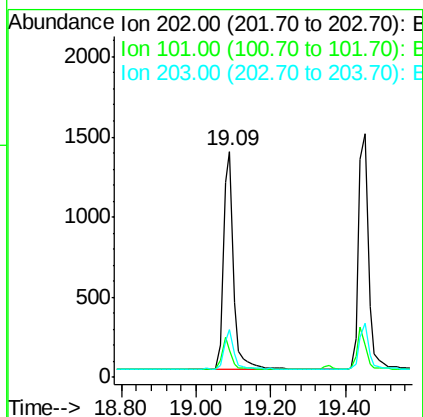
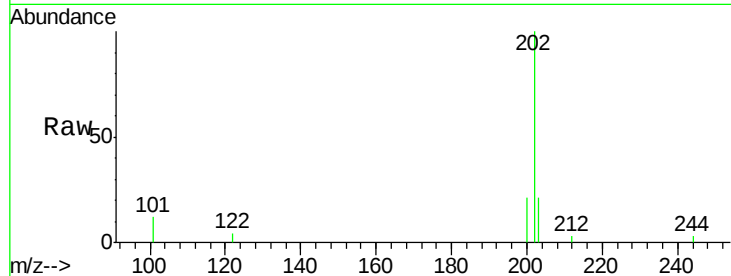




#18  
 Fluoranthene  
 Concen: 0.07 ng  
 RT: 19.09 min Scan# 1974  
 Delta R.T. 0.01 min  
 Lab File: BM000787.D  
 Acq: 01 Apr 2015 14:55

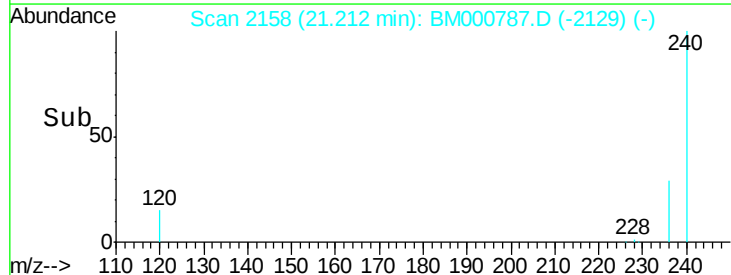
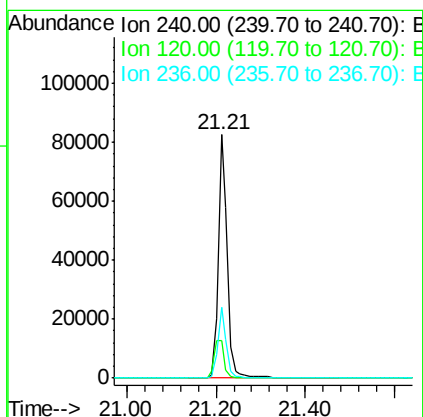
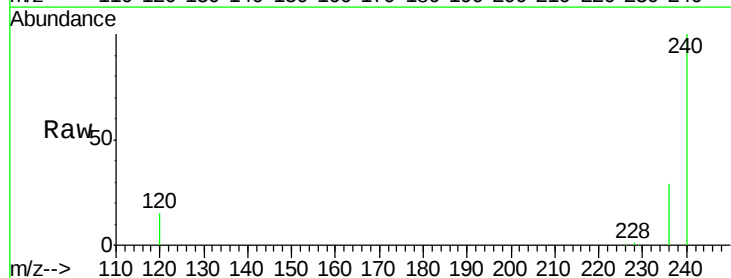
Instrument :  
 BNA\_M  
 ClientSampleId :

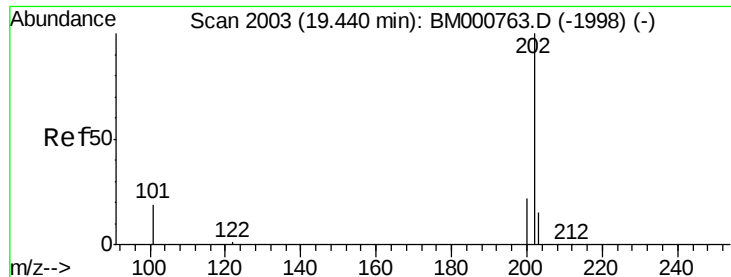
Tot Ion:202 Resp: 2576  
 Ion Ratio Lower Upper  
 202 100  
 101 13.5 10.5 15.7  
 203 17.7 13.8 20.8



#19  
 Chrysene-d12  
 Concen: 5.00 ng  
 RT: 21.21 min Scan# 2158  
 Delta R.T. 0.00 min  
 Lab File: BM000787.D  
 Acq: 01 Apr 2015 14:55

Tgt Ion:240 Resp: 113674  
 Ion Ratio Lower Upper  
 240 100  
 120 15.5 14.9 22.3  
 236 29.2 24.2 36.4

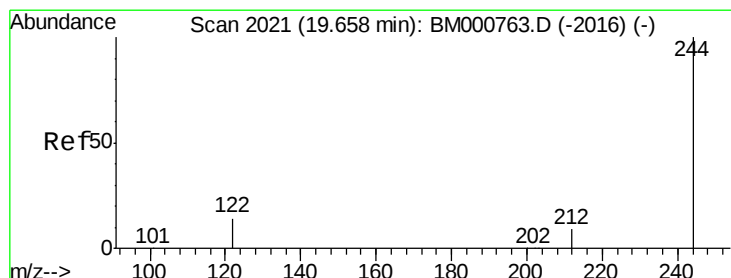
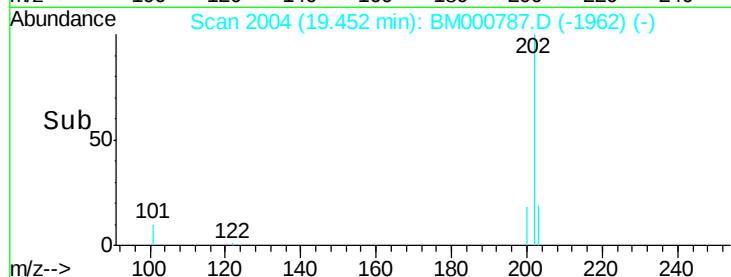
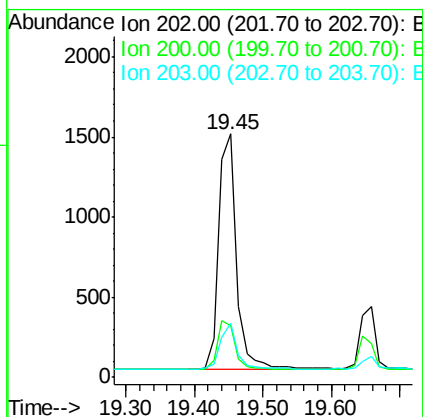
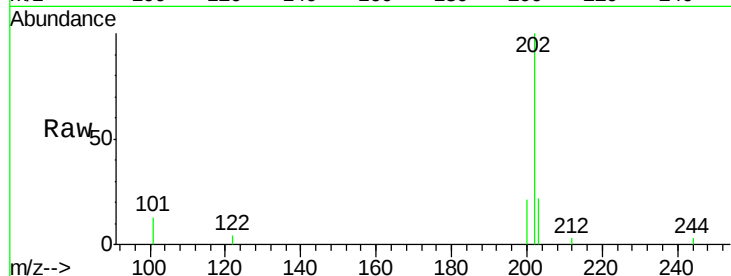




#20  
Pvrene  
Concen: 0.07 ng  
RT: 19.45 min Scan# 2004  
Delta R.T. 0.01 min  
Lab File: BM000787.D  
Acq: 01 Apr 2015 14:55

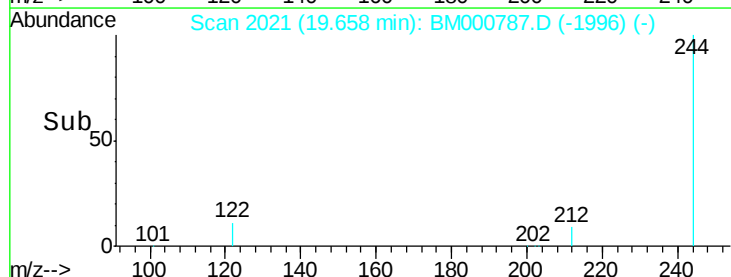
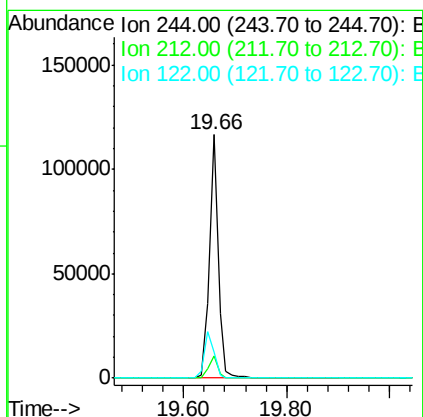
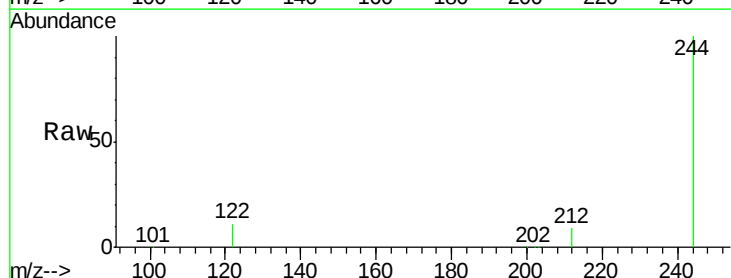
Instrument :  
BNA\_M  
ClientSampleId :

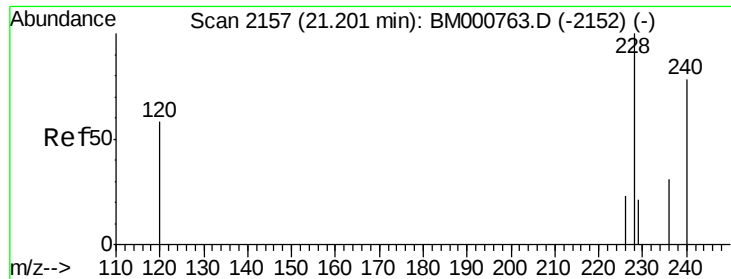
Tot Ion:202 Resp: 2657  
Ion Ratio Lower Upper  
202 100  
200 20.5 16.2 24.2  
203 18.1 13.9 20.9



#21  
Terphenyl-d14  
Concen: 10.23 ng  
RT: 19.66 min Scan# 2021  
Delta R.T. 0.00 min  
Lab File: BM000787.D  
Acq: 01 Apr 2015 14:55

Tgt Ion:244 Resp: 139870  
Ion Ratio Lower Upper  
244 100  
212 8.9 7.8 11.6  
122 10.9 11.8 17.8#





#22

Benzo(a)anthracene

Concen: 0.08 ng

RT: 21.19 min Scan# 2156

Delta R.T. -0.01 min

Lab File: BM000787.D

Acq: 01 Apr 2015 14:55

Instrument :

BNA\_M

ClientSampleId :

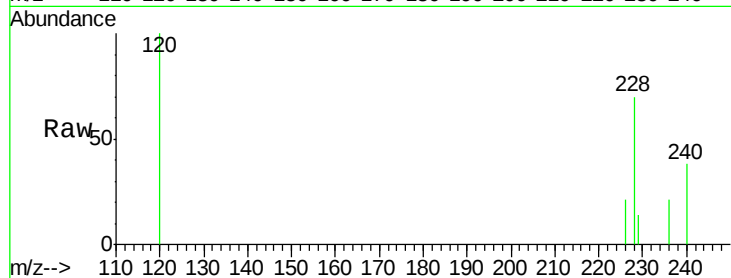
Tot Ion:228 Resp: 2588

Ion Ratio Lower Upper

228 100

226 30.0 18.6 27.8#

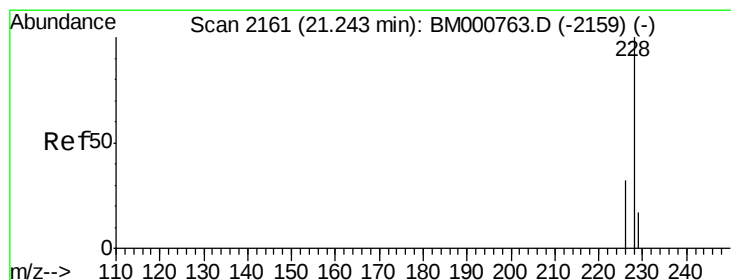
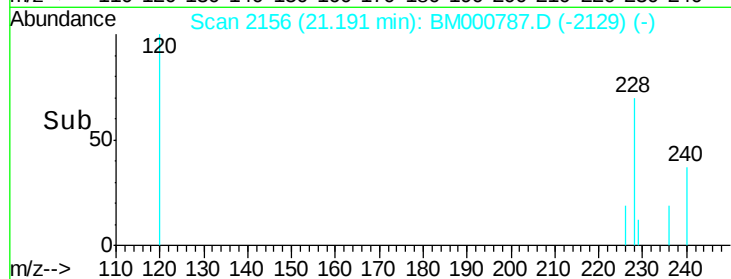
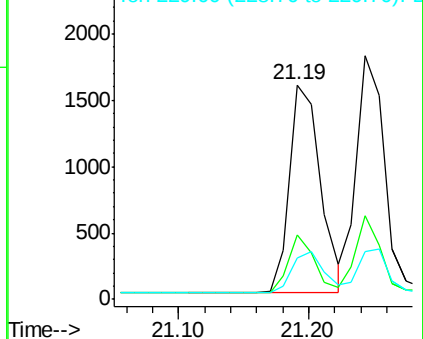
229 19.5 17.2 25.8



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

Chrysene

Concen: 0.08 ng

RT: 21.24 min Scan# 2161

Delta R.T. 0.00 min

Lab File: BM000787.D

Acq: 01 Apr 2015 14:55

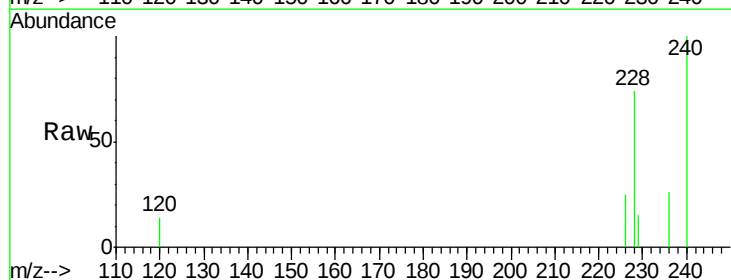
Tgt Ion:228 Resp: 2806

Ion Ratio Lower Upper

228 100

226 34.1 25.8 38.8

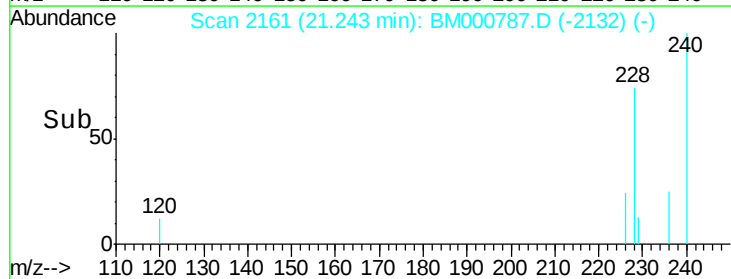
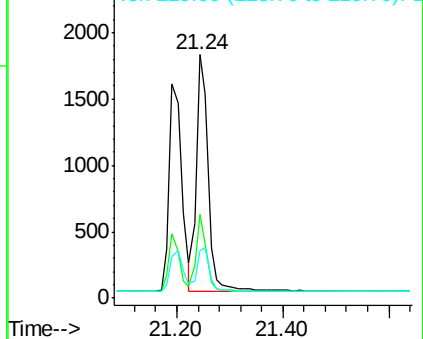
229 19.7 13.8 20.6

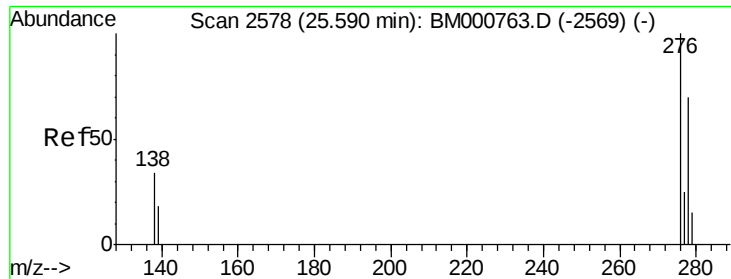


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#24

Indeno(1,2,3-cd)pyrene

Concen: 0.07 ng

RT: 25.59 min Scan# 2578

Delta R.T. 0.00 min

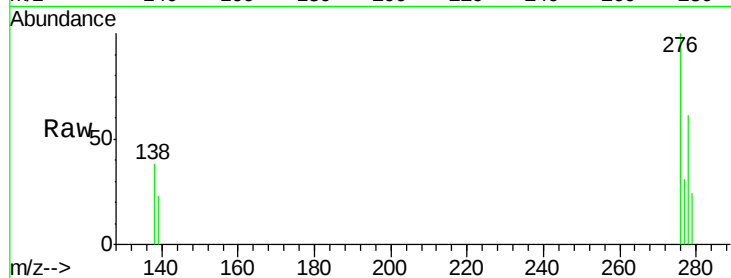
Lab File: BM000787.D

Acq: 01 Apr 2015 14:55

Instrument :

BNA\_M

ClientSampleId :



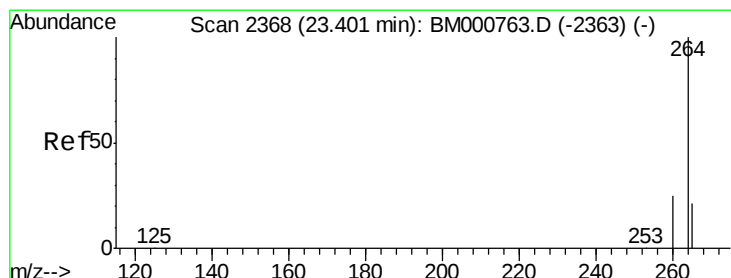
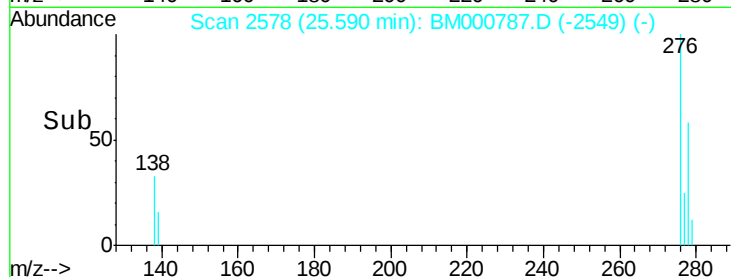
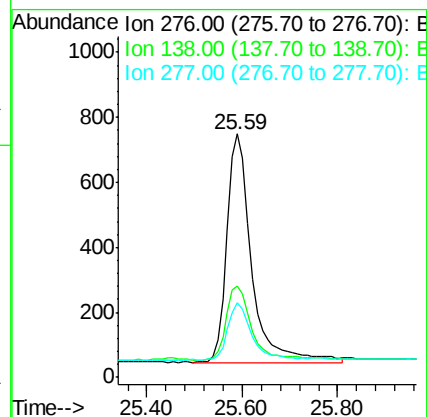
Tot Ion:276 Resp: 2519

Ion Ratio Lower Upper

276 100

138 33.8 27.4 41.2

277 24.5 19.7 29.5



#25

Perylene-d12

Concen: 5.00 ng

RT: 23.40 min Scan# 2368

Delta R.T. 0.00 min

Lab File: BM000787.D

Acq: 01 Apr 2015 14:55

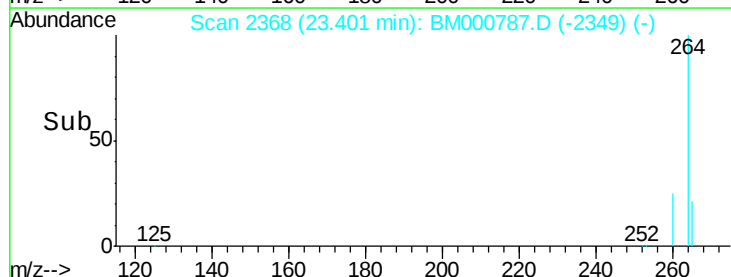
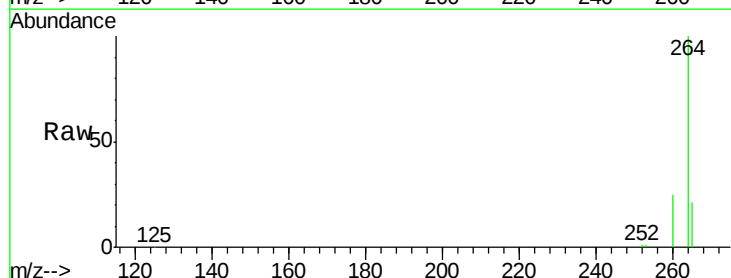
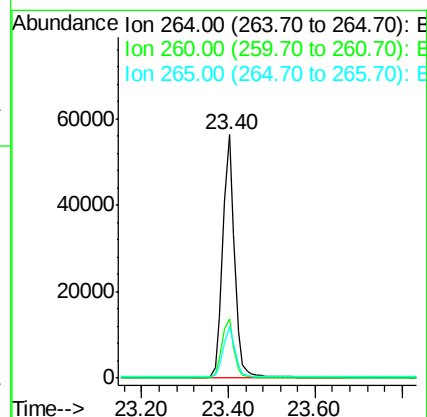
Tgt Ion:264 Resp: 105211

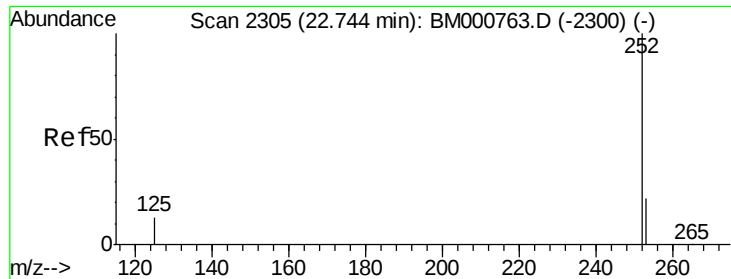
Ion Ratio Lower Upper

264 100

260 24.6 20.1 30.1

265 21.4 17.4 26.0

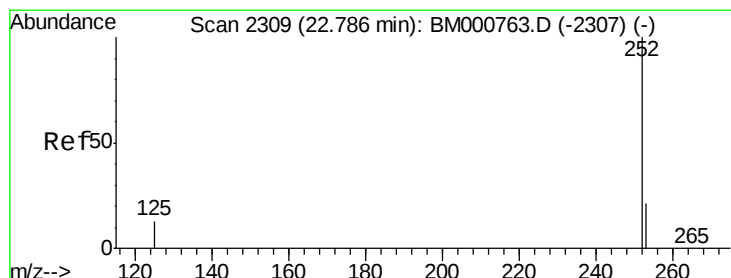
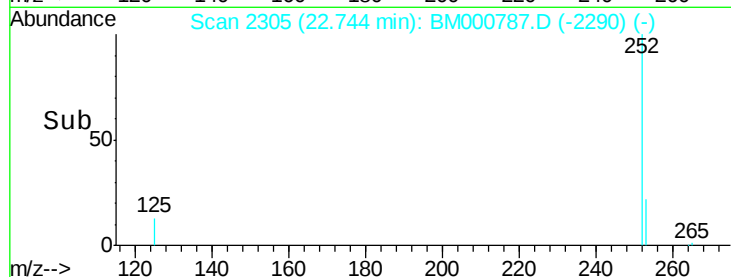
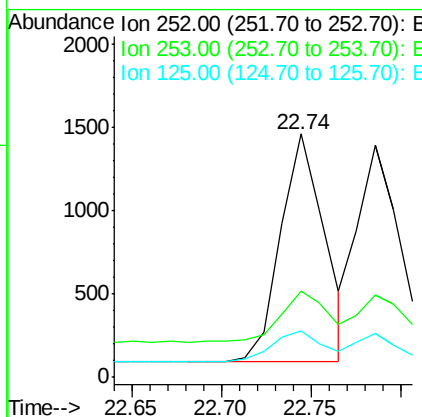
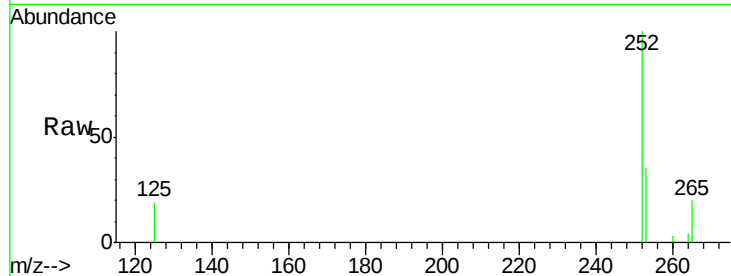




#26  
Benzo(b)fluoranthene  
Concen: 0.07 ng  
RT: 22.74 min Scan# 2305  
Delta R.T. 0.00 min  
Lab File: BM000787.D  
Acq: 01 Apr 2015 14:55

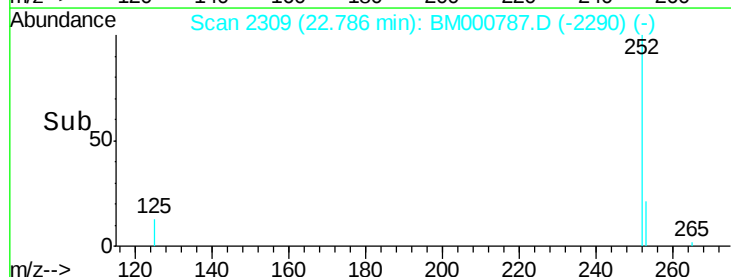
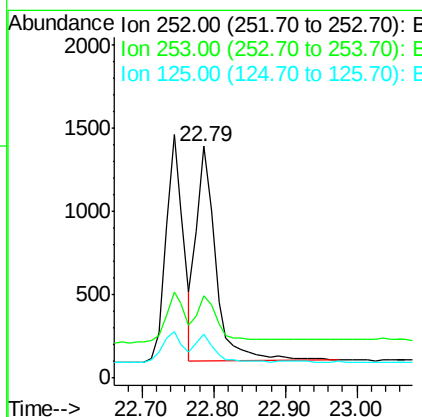
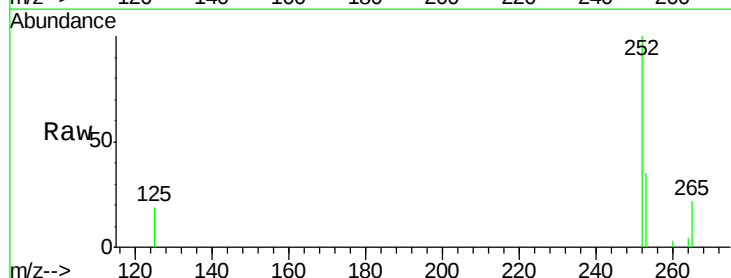
Instrument :  
BNA\_M  
ClientSampleId :

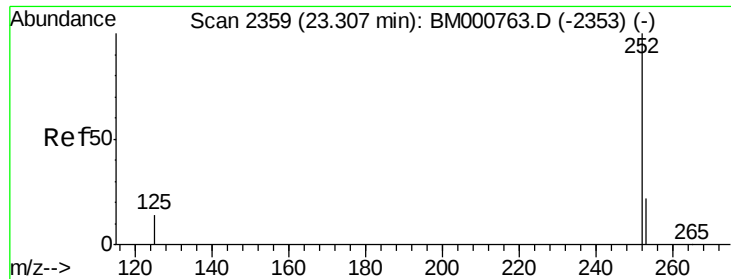
Tot Ion:252 Resp: 2332  
Ion Ratio Lower Upper  
252 100  
253 35.5 18.5 27.7#  
125 19.0 10.6 16.0#



#27  
Benzo(k)fluoranthene  
Concen: 0.08 ng  
RT: 22.79 min Scan# 2309  
Delta R.T. 0.00 min  
Lab File: BM000787.D  
Acq: 01 Apr 2015 14:55

Tgt Ion:252 Resp: 2406  
Ion Ratio Lower Upper  
252 100  
253 35.3 17.9 26.9#  
125 18.8 10.8 16.2#





#28

Benzo(a)pyrene

Concen: 0.07 ng

RT: 23.30 min Scan# 2358

Delta R.T. -0.01 min

Lab File: BM000787.D

Acq: 01 Apr 2015 14:55

Instrument :

BNA\_M

ClientSampled :

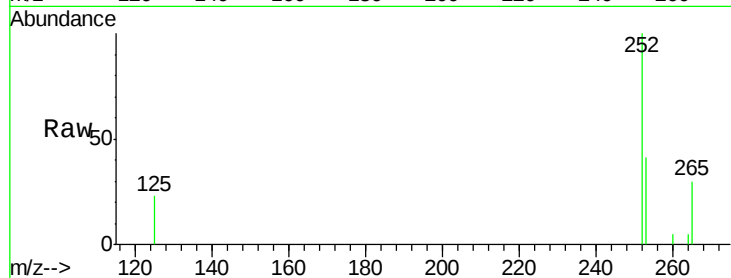
Tot Ion:252 Resp: 2087

Ion Ratio Lower Upper

252 100

253 40.9 19.4 29.2#

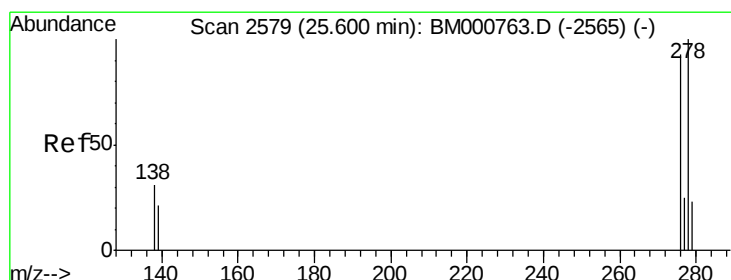
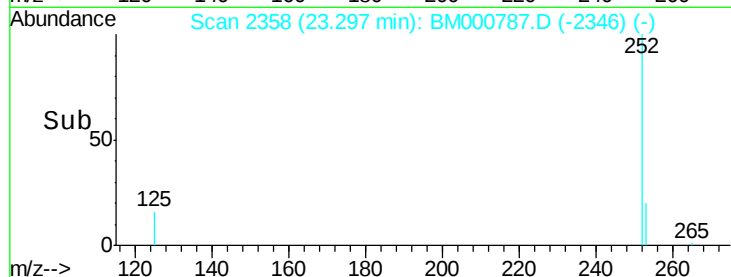
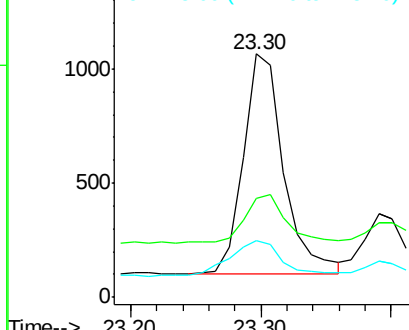
125 23.2 11.5 17.3#



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



#29

Dibenzo(a,h)anthracene

Concen: 0.07 ng

RT: 25.61 min Scan# 2580

Delta R.T. 0.01 min

Lab File: BM000787.D

Acq: 01 Apr 2015 14:55

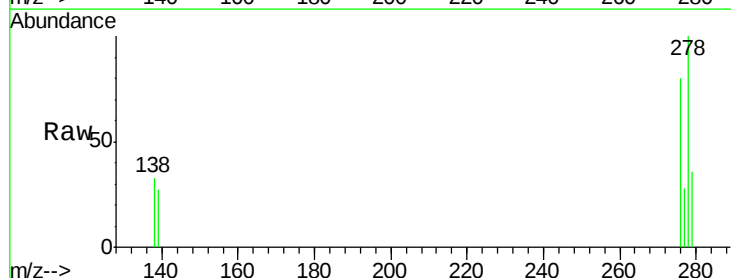
Tgt Ion:278 Resp: 1998

Ion Ratio Lower Upper

278 100

139 26.9 17.8 26.6#

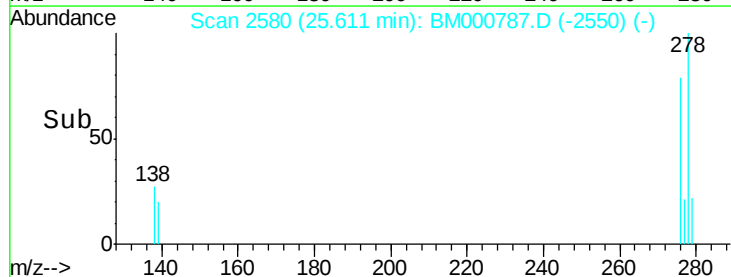
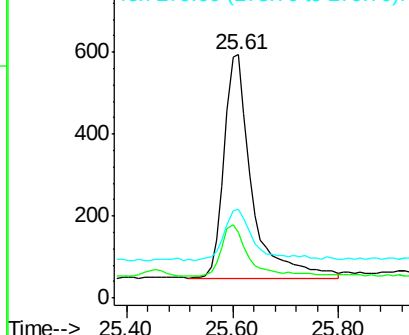
279 36.2 19.3 28.9#

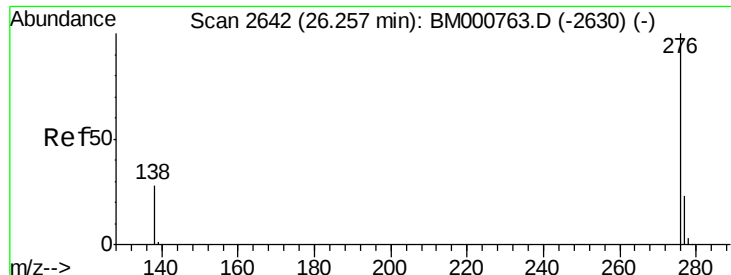


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#30

Benzo(a,h,i)perylene

Concen: 0.08 ng

RT: 26.26 min Scan# 2642

Delta R.T. 0.00 min

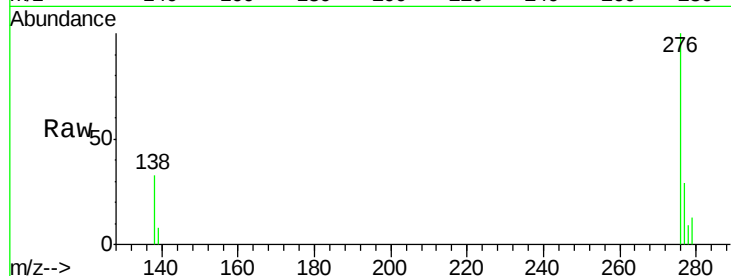
Lab File: BM000787.D

Acq: 01 Apr 2015 14:55

Instrument :

BNA\_M

ClientSampleId :



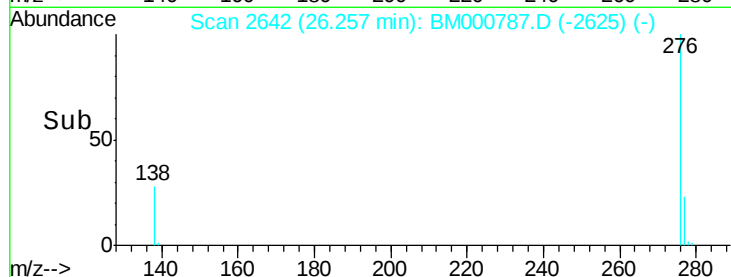
Tot Ion: 276 Resp: 2339

Ion Ratio Lower Upper

276 100

277 28.8 19.1 28.7#

138 33.4 23.1 34.7



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

