

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM022715\  
 Data File : BM000620.D  
 Acq On : 27 Feb 2015 23:16  
 Operator : TP/IZ  
 Sample : MDL-04-W  
 Misc : MDL-WATER-0.4PPM  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Feb 28 01:10:59 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM01.2-EPA-SIM-BM022715.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 27 23:02:43 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.67  | 152  | 2966     | 0.40 | ng/ul | 0.00     |
| 4) Naphthalene-d8         | 10.46 | 136  | 9846     | 0.40 | ng/ul | 0.00     |
| 8) Acenaphthene-d10       | 14.31 | 164  | 5125     | 0.40 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.07 | 188  | 10291    | 0.40 | ng/ul | 0.00     |
| 18) Chrysene-d12          | 21.26 | 240  | 7843     | 0.40 | ng/ul | 0.01     |
| 22) Perylene-d12          | 23.46 | 264  | 6974     | 0.40 | ng/ul | 0.00     |

|                             |       |     |      |      |       |      |
|-----------------------------|-------|-----|------|------|-------|------|
| System Monitoring Compounds |       |     |      |      |       |      |
| 2) 1,4-Dioxane-d8           | 3.14  | 96  | 81   | 0.04 | ng/uL | 0.00 |
| 6) 2-Methylnaphthalene-d10  | 12.06 | 152 | 3466 | 0.29 | ng/ul | 0.01 |
| 16) Fluoranthene-d10        | 19.10 | 212 | 6284 | 0.33 | ng/ul | 0.01 |

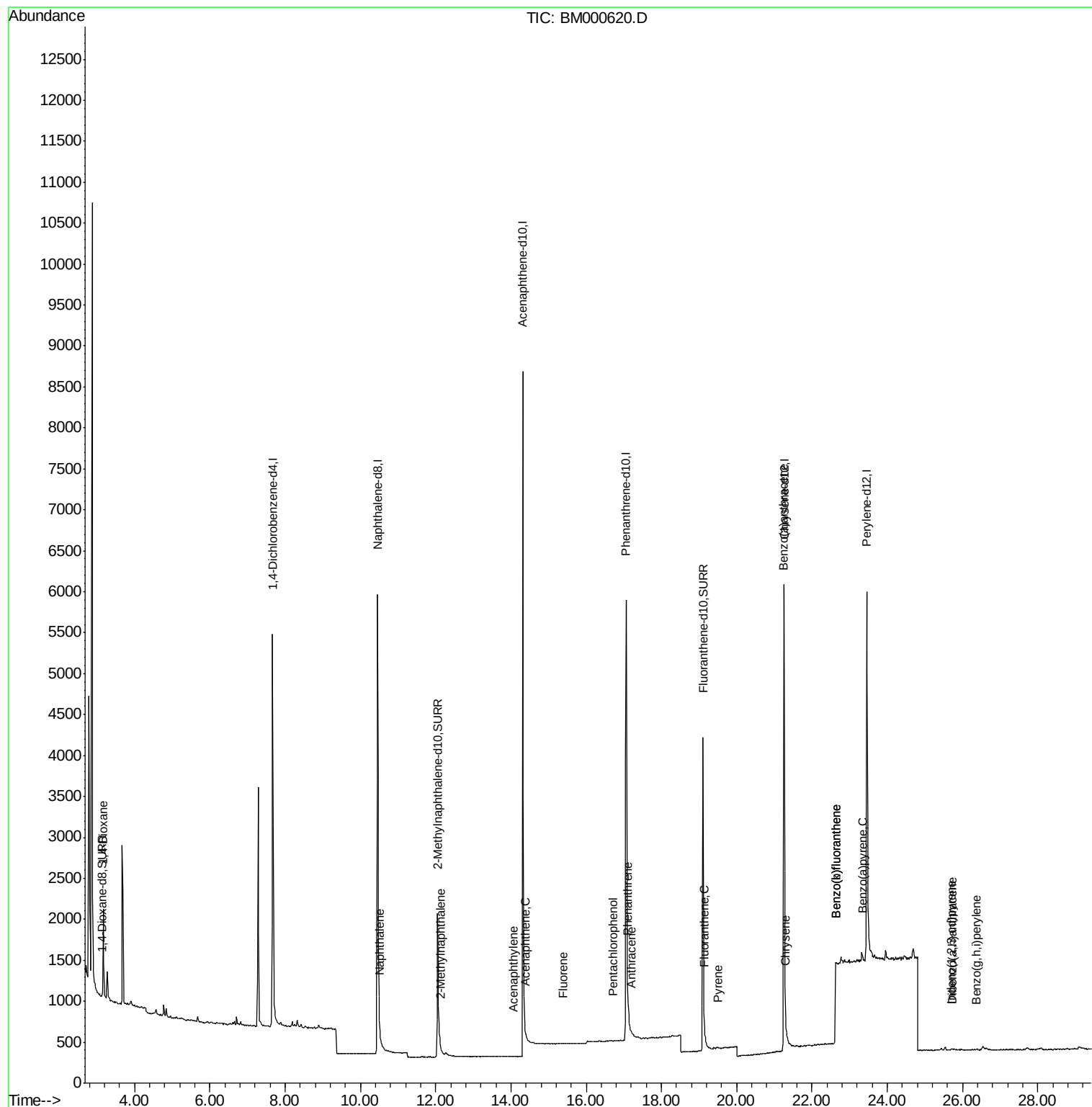
|                            |       |     |     |        |        |    |
|----------------------------|-------|-----|-----|--------|--------|----|
| Target Compounds           |       |     |     | Qvalue |        |    |
| 3) 1,4-Dioxane             | 3.17  | 88  | 941 | 0.31   | ng/ul# | 77 |
| 5) Naphthalene             | 10.50 | 128 | 21  | 0.00   | ng/ul# | 1  |
| 7) 2-Methylnaphthalene     | 12.12 | 142 | 4   | 0.00   | ng/ul# | 62 |
| 9) Acenaphthylene          | 14.05 | 152 | 5   | 0.00   | ng/ul# | 1  |
| 10) Acenaphthene           | 14.38 | 153 | 3   | 0.00   | ng/ul# | 74 |
| 11) Fluorene               | 15.38 | 166 | 9   | 0.00   | ng/ul# | 50 |
| 13) Pentachlorophenol      | 16.71 | 266 | 6   | 0.01   | ng/ul# | 17 |
| 14) Phenanthrene           | 17.10 | 178 | 41  | 0.00   | ng/ul# | 1  |
| 15) Anthracene             | 17.20 | 178 | 38  | 0.00   | ng/ul# | 1  |
| 17) Fluoranthene           | 19.12 | 202 | 31  | 0.00   | ng/ul# | 1  |
| 19) Pyrene                 | 19.50 | 202 | 18  | 0.00   | ng/ul# | 1  |
| 20) Benzo(a)anthracene     | 21.25 | 228 | 48  | 0.00   | ng/ul# | 1  |
| 21) Chrysene               | 21.29 | 228 | 38  | 0.00   | ng/ul# | 1  |
| 23) Benzo(b)fluoranthene   | 22.63 | 252 | 571 | 0.02   | ng/ul# | 1  |
| 24) Benzo(k)fluoranthene   | 22.63 | 252 | 571 | 0.02   | ng/ul# | 1  |
| 25) Benzo(a)pyrene         | 23.35 | 252 | 74  | 0.00   | ng/ul# | 1  |
| 26) Indeno(1,2,3-cd)pyrene | 25.70 | 276 | 34  | 0.00   | ng/ul# | 50 |
| 27) Dibenzo(a,h)anthracene | 25.72 | 278 | 23  | 0.00   | ng/ul# | 1  |
| 28) Benzo(g,h,i)perylene   | 26.36 | 276 | 29  | 0.00   | ng/ul# | 1  |

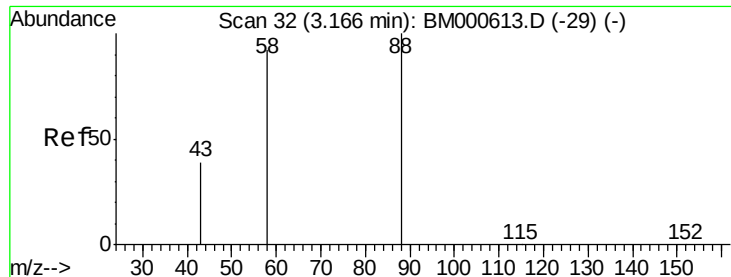
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Feb 27 23:02:43 2015  
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#3

1,4-Dioxane

Concen: 0.31 ng/ul

RT: 3.17 min Scan# 32

Delta R.T. 0.00 min

Lab File: BM000620.D

Acq: 27 Feb 2015 23:16

Instrument :

BNA\_M

ClientSampled :

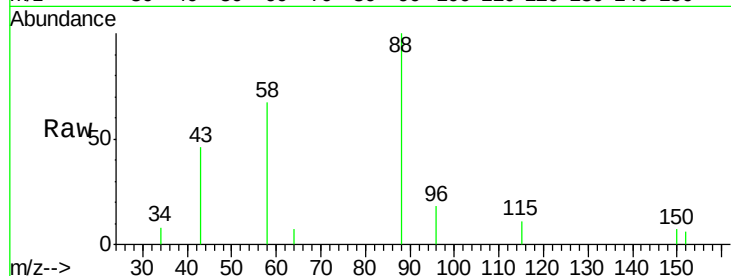
Tgt Ion: 88 Resp: 941

Ion Ratio Lower Upper

88 100

58 73.0 62.7 94.1

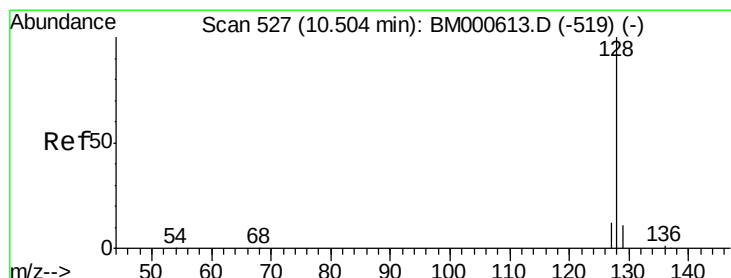
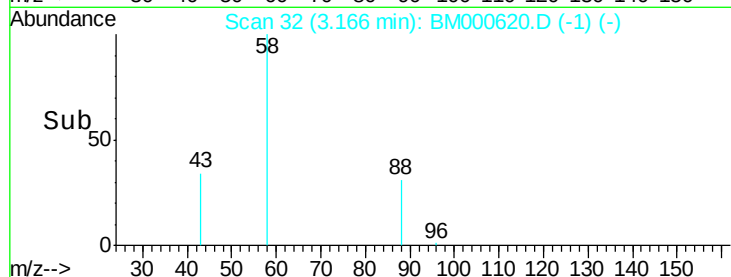
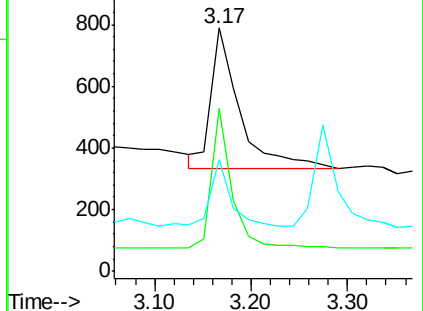
43 0.0 28.8 43.2#



Abundance Ion 88.00 (87.70 to 88.70): BM000620.D (-1) (-)

Ion 58.00 (57.70 to 58.70): BM000620.D (-1) (-)

Ion 43.00 (42.70 to 43.70): BM000620.D (-1) (-)



#5

Naphthalene

Concen: 0.00 ng/ul

RT: 10.50 min Scan# 527

Delta R.T. 0.00 min

Lab File: BM000620.D

Acq: 27 Feb 2015 23:16

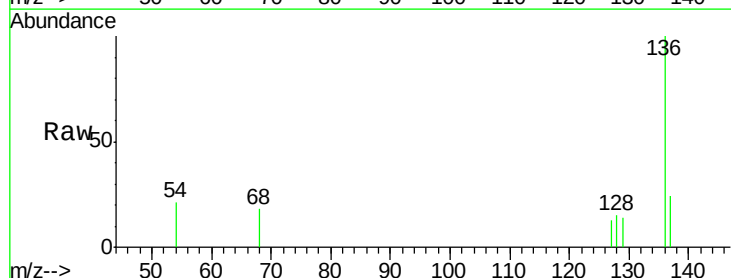
Tgt Ion: 128 Resp: 21

Ion Ratio Lower Upper

128 100

129 91.1 9.4 14.0#

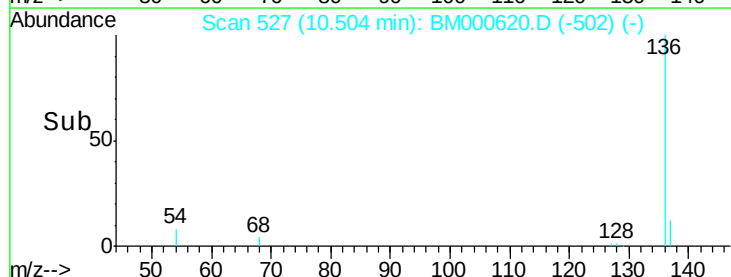
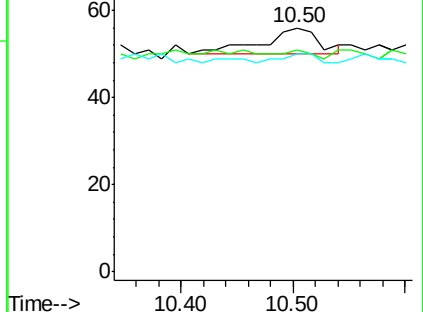
127 89.3 10.0 15.0#

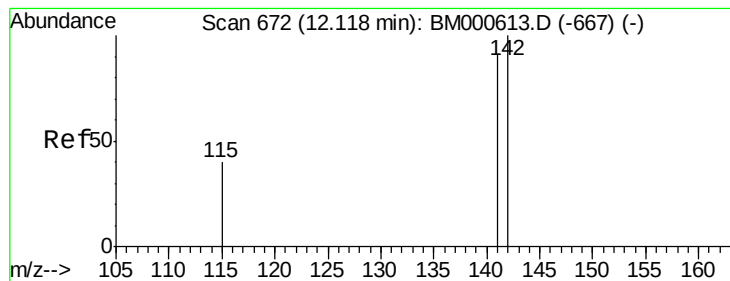


Abundance Ion 128.00 (127.70 to 128.70): BM000620.D (-502) (-)

Ion 129.00 (128.70 to 129.70): BM000620.D (-502) (-)

Ion 127.00 (126.70 to 127.70): BM000620.D (-502) (-)





#7

2-Methylnaphthalene

Concen: 0.00 ng/ul

RT: 12.12 min Scan# 672

Delta R.T. 0.00 min

Lab File: BM000620.D

Acq: 27 Feb 2015 23:16

Instrument :

BNA\_M

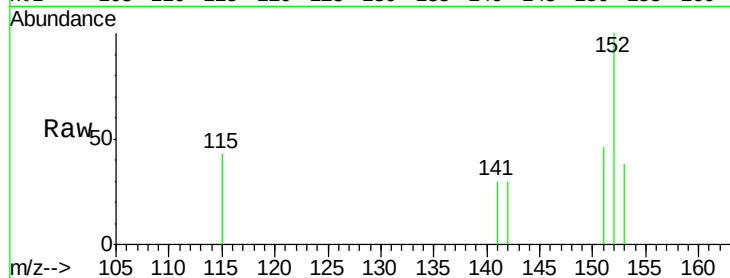
ClientSampleId :

Tgt Ion:142 Resp: 4

Ion Ratio Lower Upper

142 100

141 125.0 71.2 106.8#

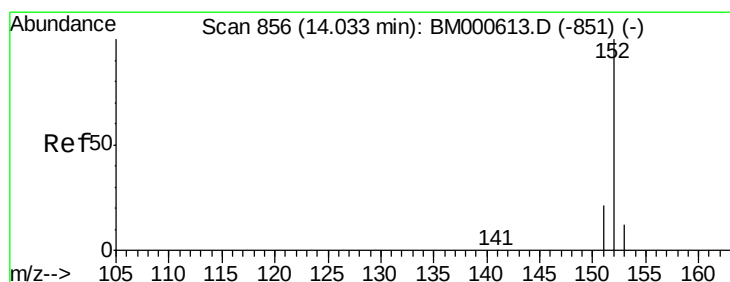
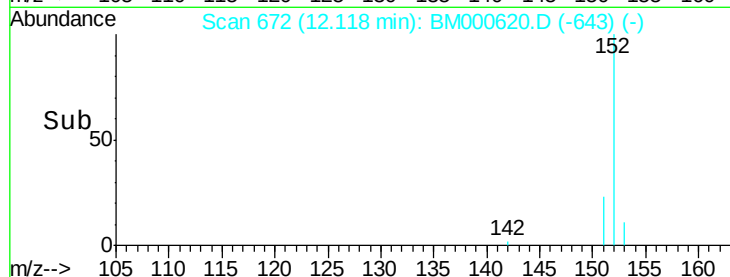


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

12.12

Time--> 12.10 12.15



#9

Acenaphthylene

Concen: 0.00 ng/ul

RT: 14.05 min Scan# 858

Delta R.T. 0.02 min

Lab File: BM000620.D

Acq: 27 Feb 2015 23:16

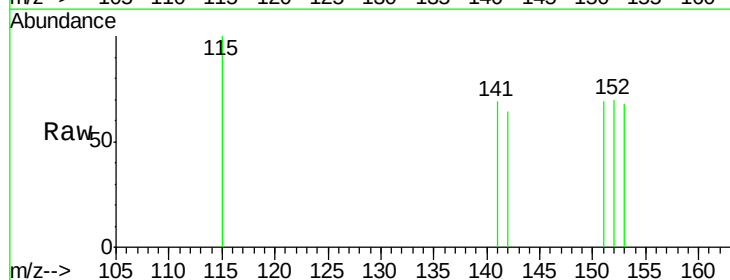
Tgt Ion:152 Resp: 5

Ion Ratio Lower Upper

152 100

151 98.1 17.0 25.6#

153 96.2 9.9 14.9#



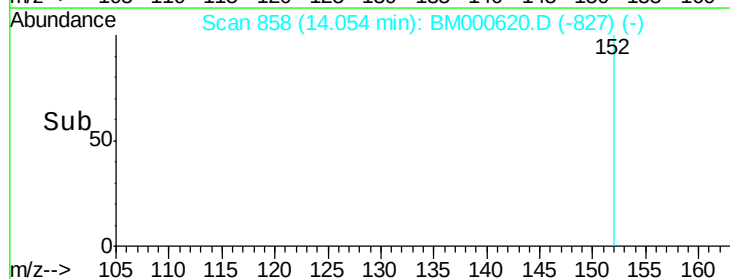
Abundance Ion 152.00 (151.70 to 152.70): E

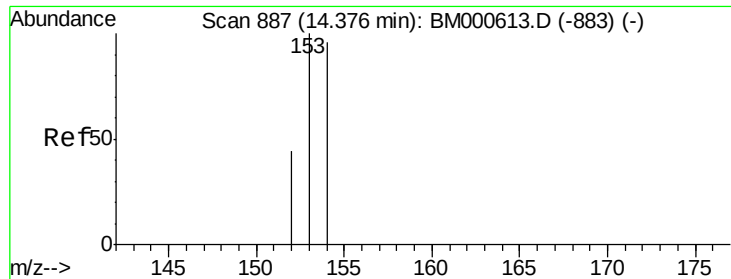
Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

14.05

Time--> 14.00 14.05 14.10





#10

Acenaphthene

Concen: 0.00 ng/ul

RT: 14.38 min Scan# 887

Delta R.T. 0.00 min

Lab File: BM000620.D

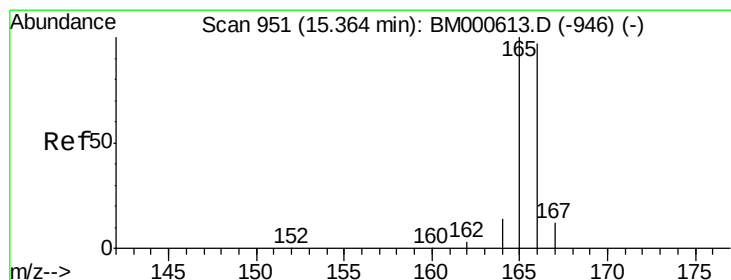
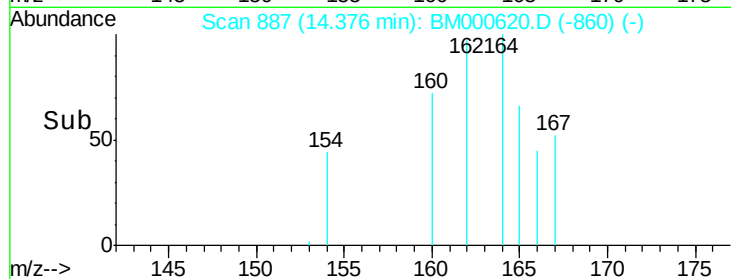
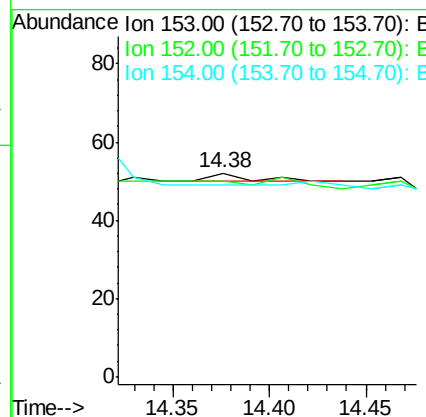
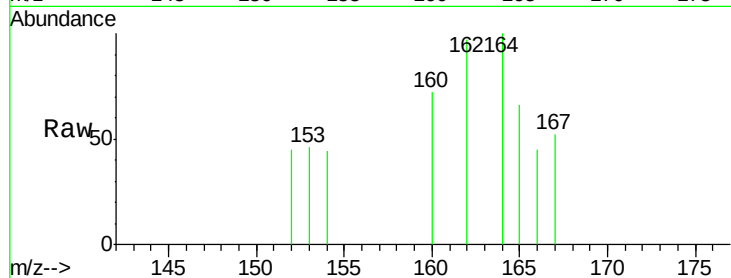
Acq: 27 Feb 2015 23:16

Instrument :

BNA\_M

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 153   | Resp: | 3     |
| Ion      | Ratio | Lower | Upper |
| 153      | 100   |       |       |
| 152      | 96.2  | 35.9  | 53.9# |
| 154      | 94.2  | 76.9  | 115.3 |



#11

Fluorene

Concen: 0.00 ng/ul

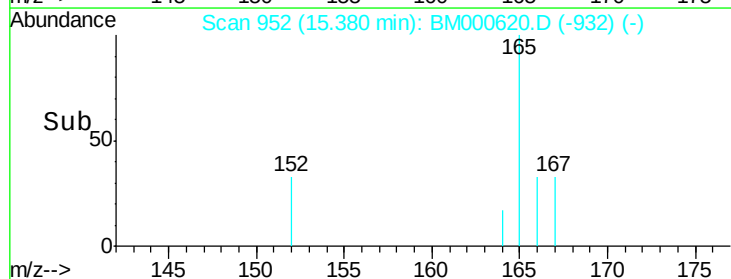
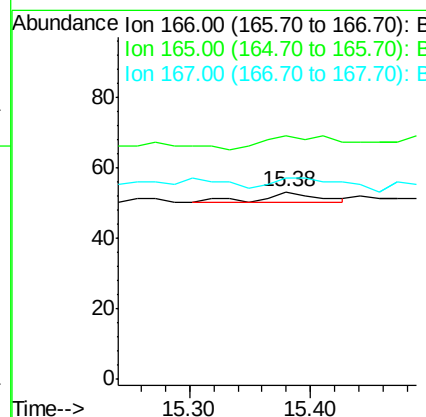
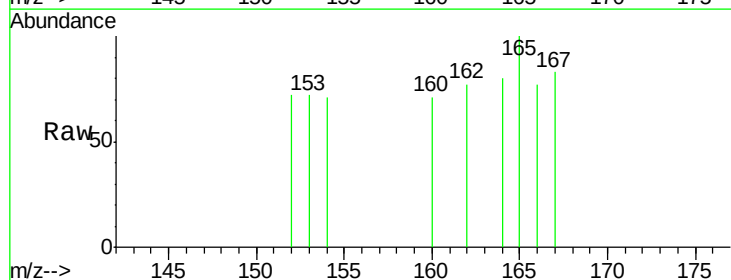
RT: 15.38 min Scan# 952

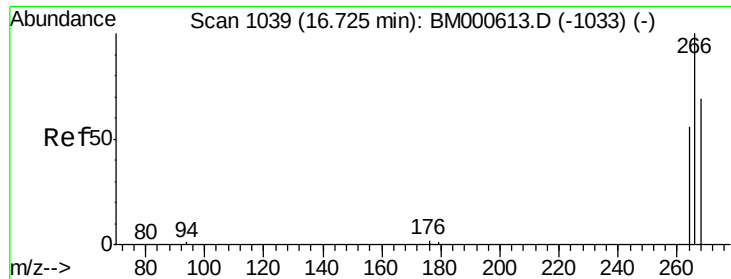
Delta R.T. 0.02 min

Lab File: BM000620.D

Acq: 27 Feb 2015 23:16

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 166   | Resp: | 9      |
| Ion      | Ratio | Lower | Upper  |
| 166      | 100   |       |        |
| 165      | 130.2 | 82.5  | 123.7# |
| 167      | 107.5 | 10.6  | 16.0#  |

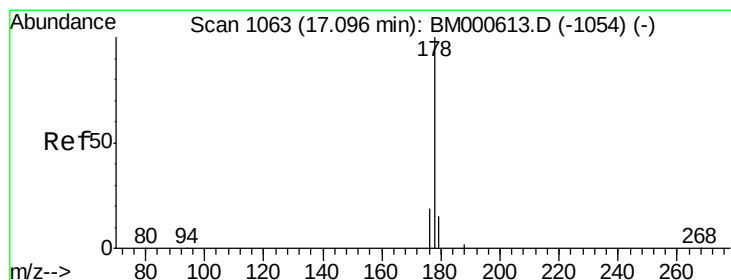
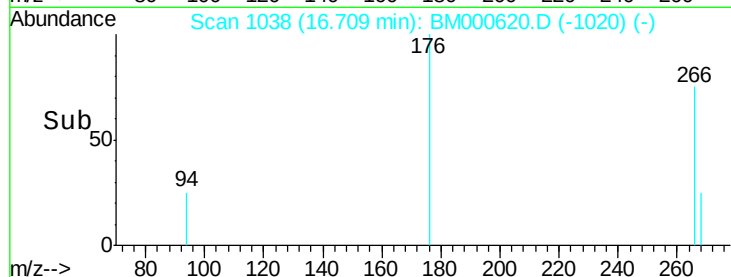
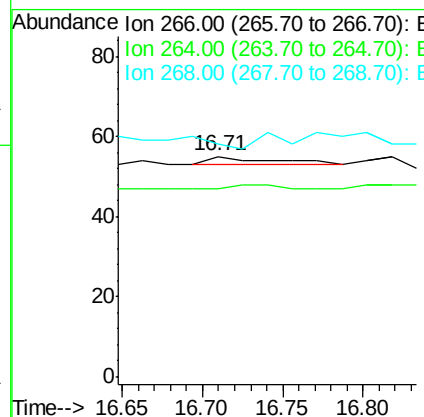
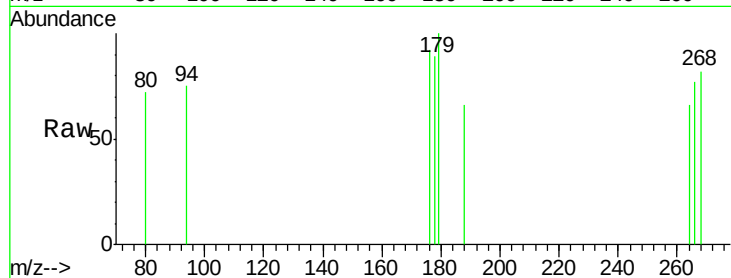




#13  
 Pentachlorophenol  
 Concen: 0.01 ng/ul  
 RT: 16.71 min Scan# 1038  
 Delta R.T. -0.02 min  
 Lab File: BM000620.D  
 Acq: 27 Feb 2015 23:16

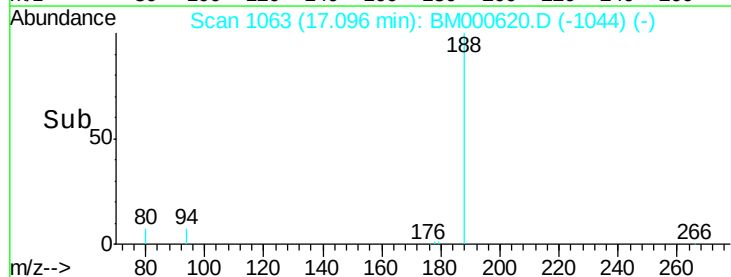
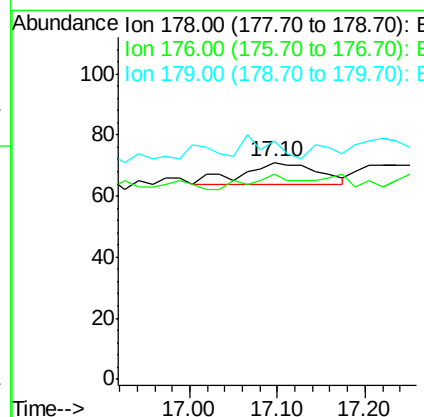
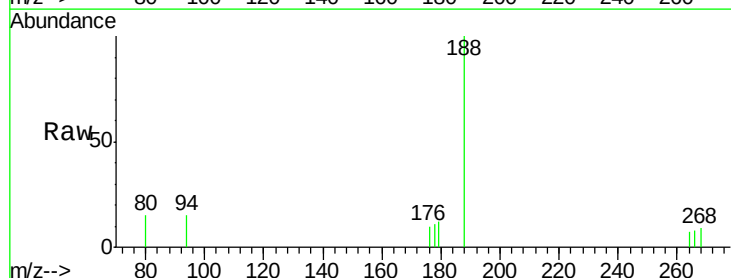
Instrument :  
 BNA\_M  
 ClientSampleId :

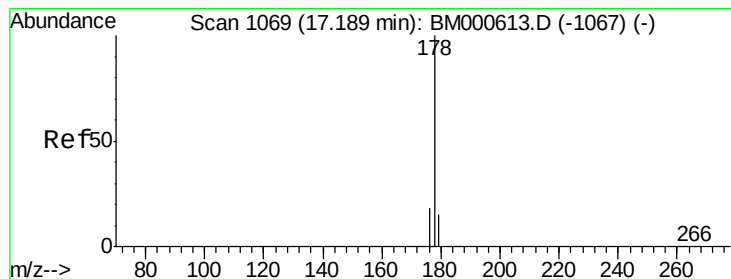
Tgt Ion: 266 Resp: 6  
 Ion Ratio Lower Upper  
 266 100  
 264 0.0 51.0 76.6#  
 268 0.0 54.9 82.3#



#14  
 Phenanthrene  
 Concen: 0.00 ng/ul  
 RT: 17.10 min Scan# 1063  
 Delta R.T. 0.00 min  
 Lab File: BM000620.D  
 Acq: 27 Feb 2015 23:16

Tgt Ion: 178 Resp: 41  
 Ion Ratio Lower Upper  
 178 100  
 176 94.4 15.3 22.9#  
 179 109.9 12.2 18.2#





#15

Anthracene

Concen: 0.00 ng/ul

RT: 17.20 min Scan# 1070

Delta R.T. 0.02 min

Lab File: BM000620.D

Acq: 27 Feb 2015 23:16

Instrument :

BNA\_M

ClientSampleId :

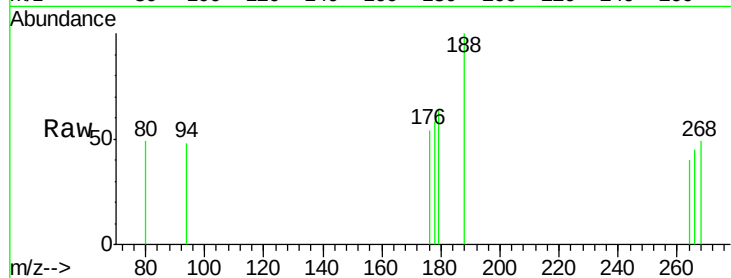
Tgt Ion:178 Resp: 38

Ion Ratio Lower Upper

178 100

176 92.9 14.6 22.0#

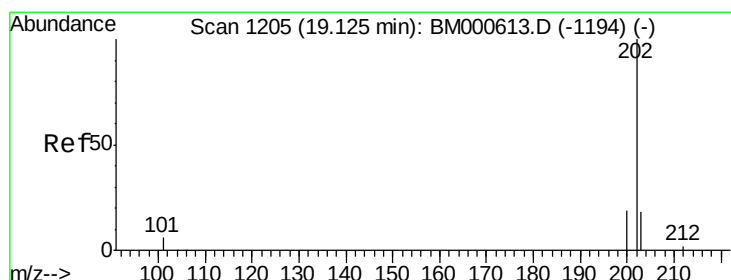
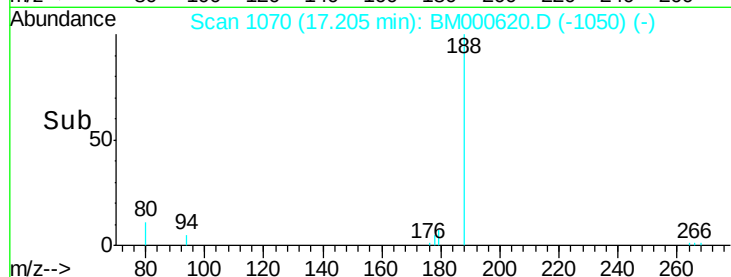
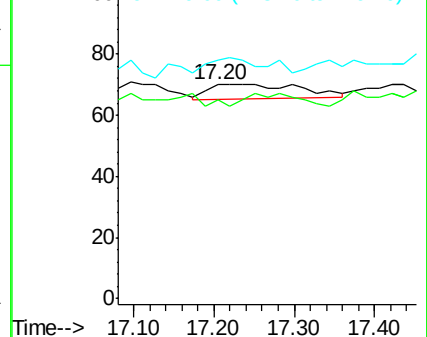
179 111.4 12.9 19.3#



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: 0.00 ng/ul

RT: 19.12 min Scan# 1205

Delta R.T. 0.00 min

Lab File: BM000620.D

Acq: 27 Feb 2015 23:16

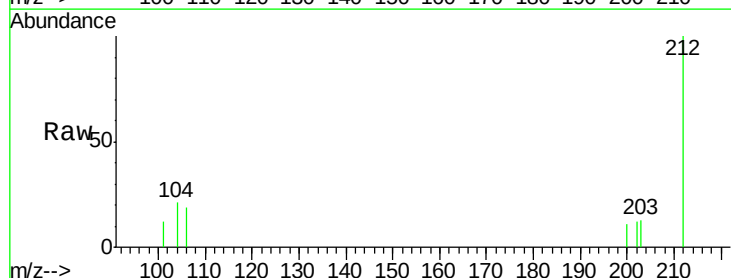
Tgt Ion:202 Resp: 31

Ion Ratio Lower Upper

202 100

101 96.5 0.0 26.2#

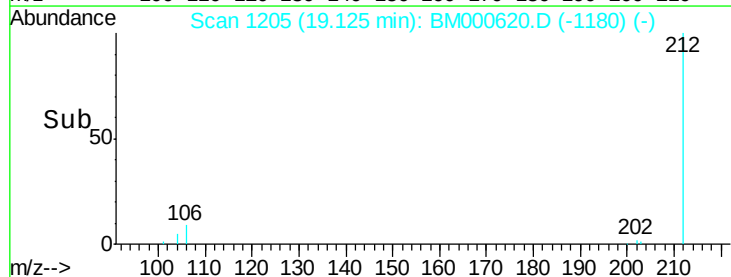
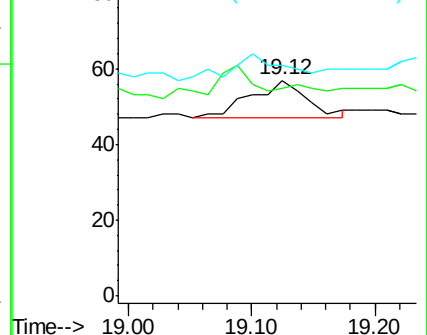
203 107.0 0.0 38.3#

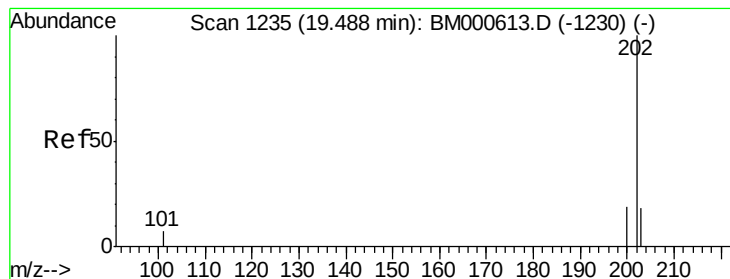


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#19

Pyrene

Concen: 0.00 ng/ul

RT: 19.50 min Scan# 1236

Delta R.T. 0.01 min

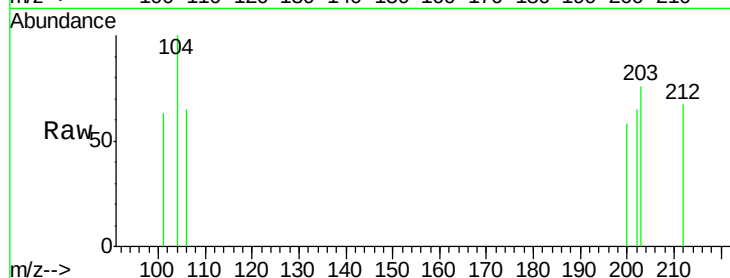
Lab File: BM000620.D

Acq: 27 Feb 2015 23:16

Instrument :

BNA\_M

ClientSampled :



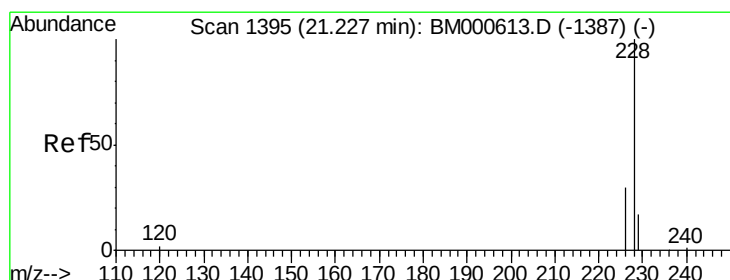
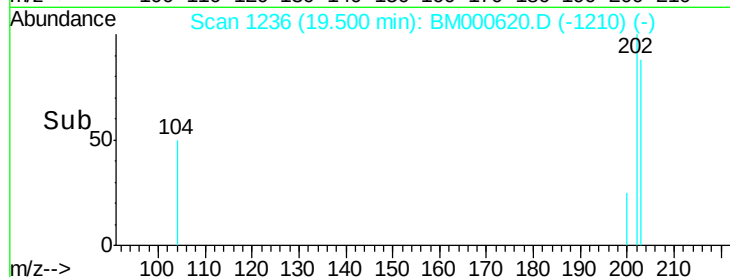
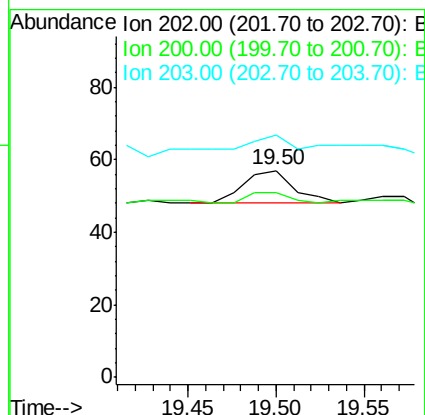
Tgt Ion:202 Resp: 18

Ion Ratio Lower Upper

202 100

200 89.5 15.7 23.5#

203 117.5 14.8 22.2#



#20

Benzo(a)anthracene

Concen: 0.00 ng/ul

RT: 21.25 min Scan# 1397

Delta R.T. 0.02 min

Lab File: BM000620.D

Acq: 27 Feb 2015 23:16

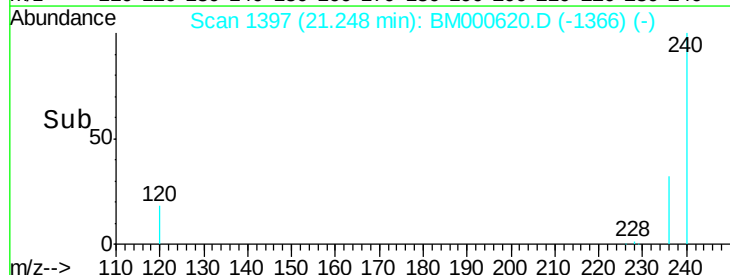
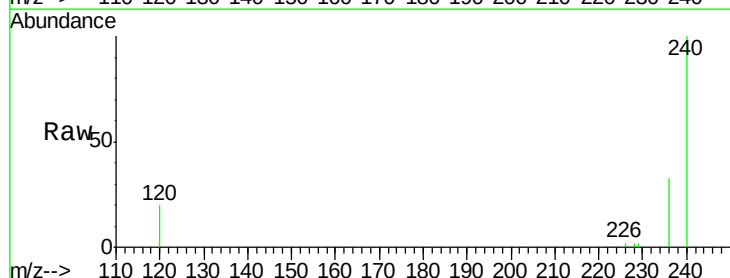
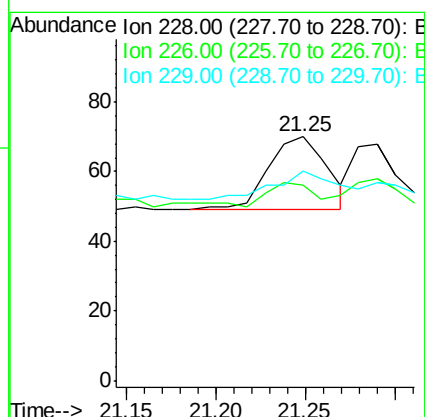
Tgt Ion:228 Resp: 48

Ion Ratio Lower Upper

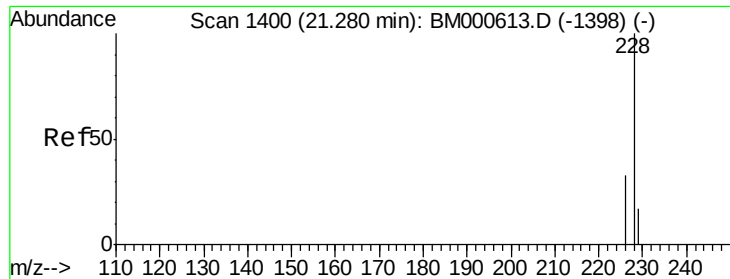
228 100

226 80.0 24.1 36.1#

229 85.7 14.2 21.4#







#21

Chrysene

Concen: 0.00 ng/ul

RT: 21.29 min Scan# 1401

Delta R.T. 0.01 min

Lab File: BM000620.D

Acq: 27 Feb 2015 23:16

Instrument :

BNA\_M

ClientSampleId :

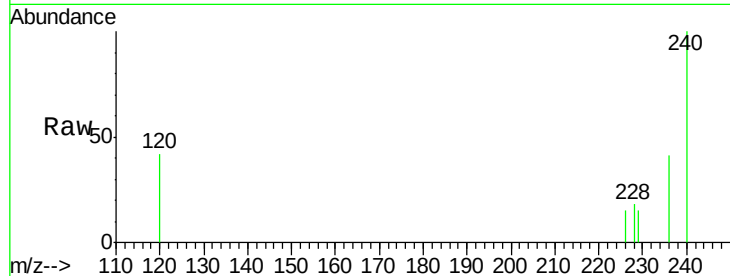
Tgt Ion:228 Resp: 38

Ion Ratio Lower Upper

228 100

226 85.3 26.5 39.7#

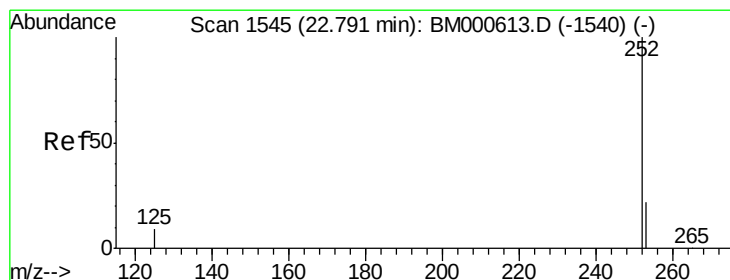
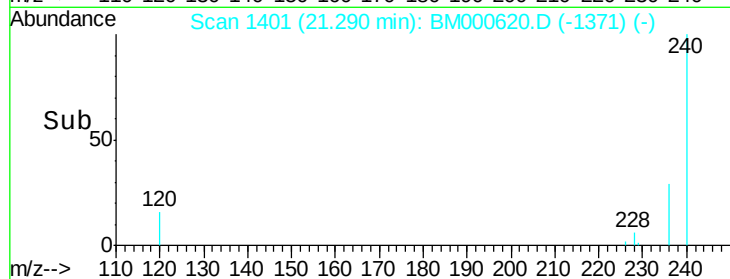
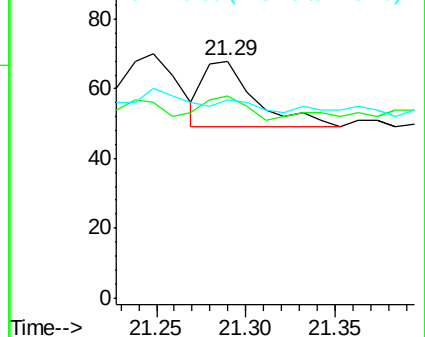
229 83.8 14.3 21.5#



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



#23

Benzo(b)fluoranthene

Concen: 0.02 ng/ul

RT: 22.63 min Scan# 1530

Delta R.T. -0.16 min

Lab File: BM000620.D

Acq: 27 Feb 2015 23:16

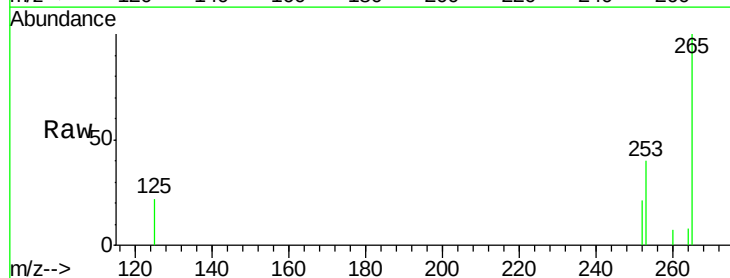
Tgt Ion:252 Resp: 571

Ion Ratio Lower Upper

252 100

253 187.9 0.0 51.2#

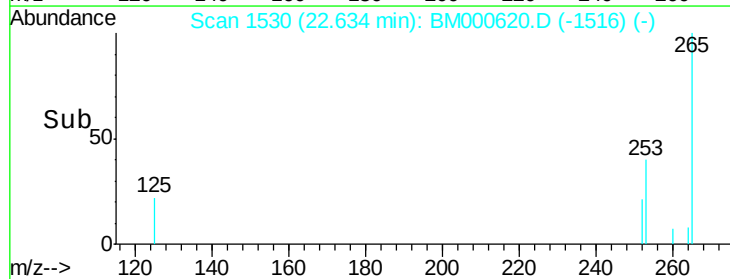
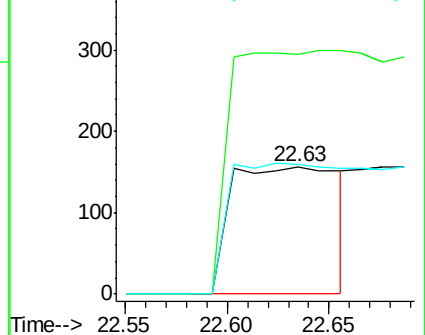
125 101.9 0.0 22.8#

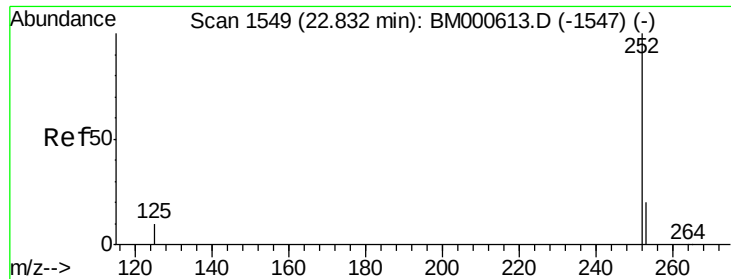


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#24

Benzo(k)fluoranthene

Concen: 0.02 ng/ul

RT: 22.63 min Scan# 1530

Delta R.T. -0.20 min

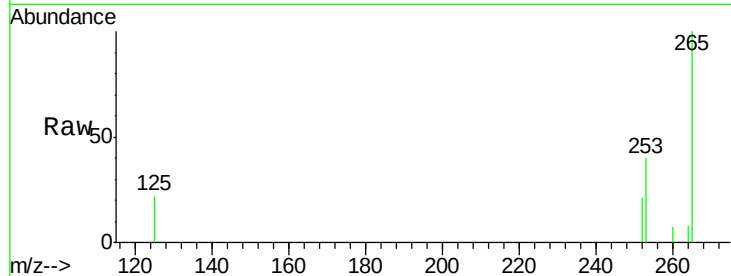
Lab File: BM000620.D

Acq: 27 Feb 2015 23:16

Instrument :

BNA\_M

ClientSampleId :



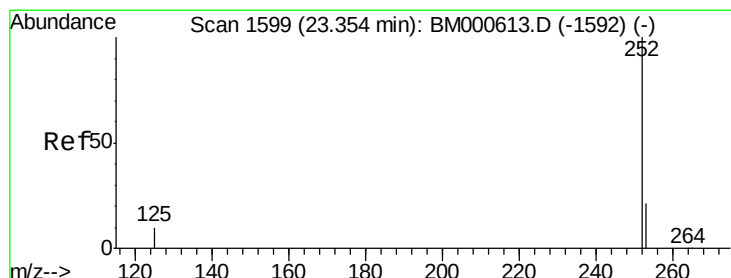
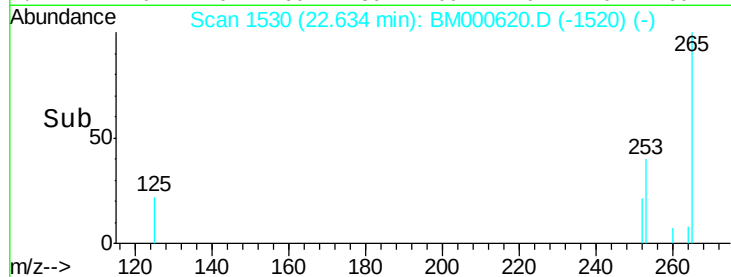
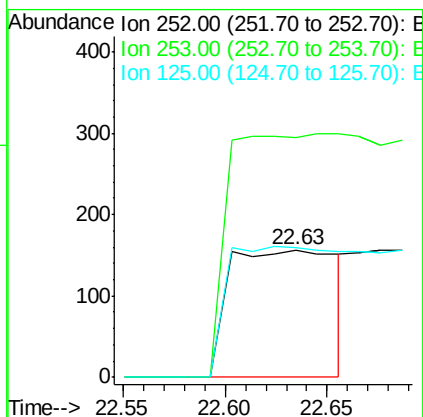
Tgt Ion: 252 Resp: 571

Ion Ratio Lower Upper

252 100

253 187.9 20.2 30.2#

125 101.9 9.6 14.4#



#25

Benzo(a)pyrene

Concen: 0.00 ng/ul

RT: 23.35 min Scan# 1599

Delta R.T. 0.00 min

Lab File: BM000620.D

Acq: 27 Feb 2015 23:16

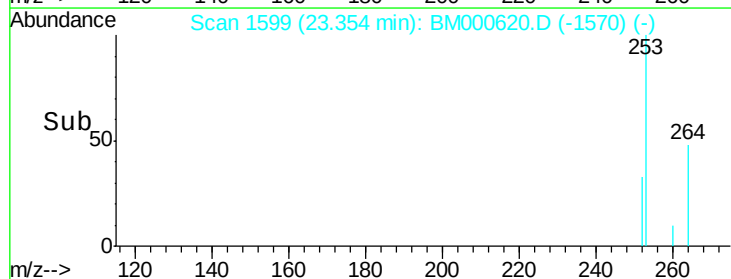
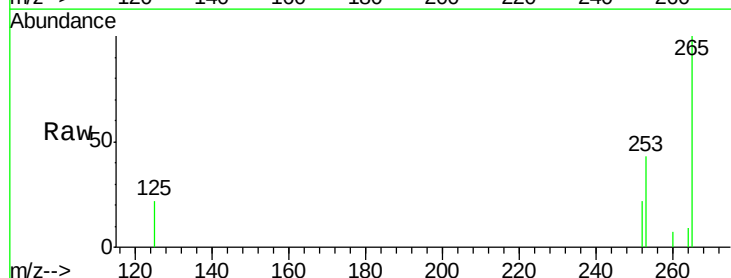
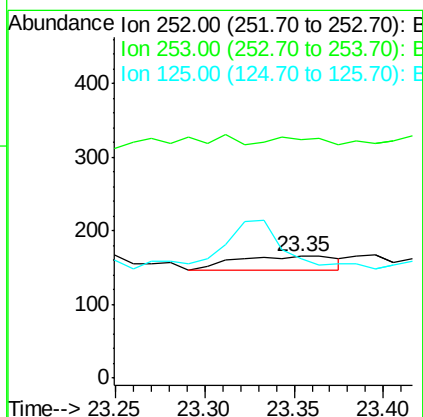
Tgt Ion: 252 Resp: 74

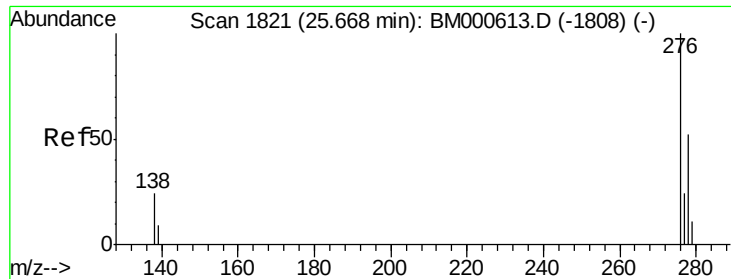
Ion Ratio Lower Upper

252 100

253 196.4 21.3 31.9#

125 98.2 10.6 15.8#

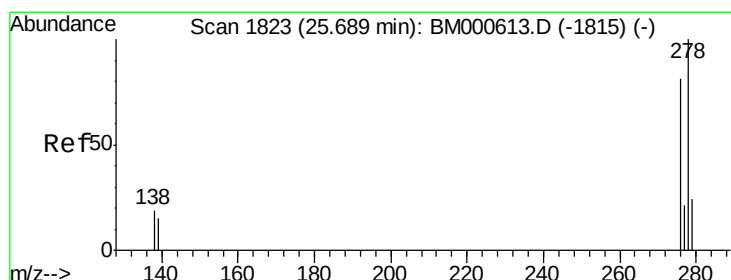
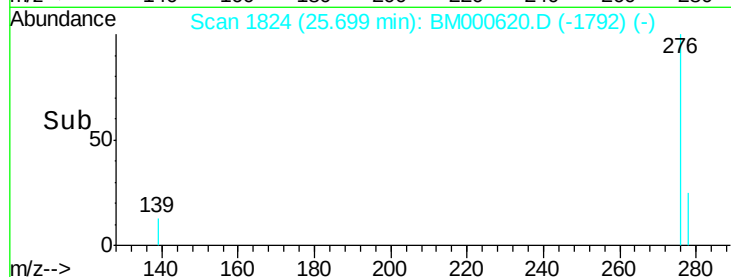
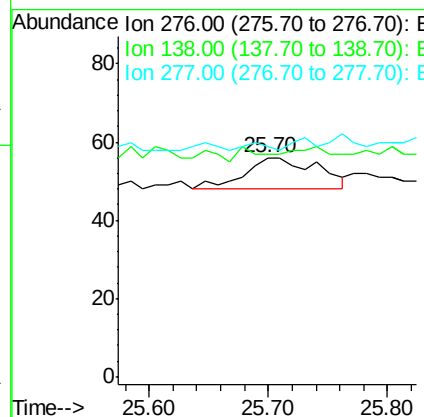
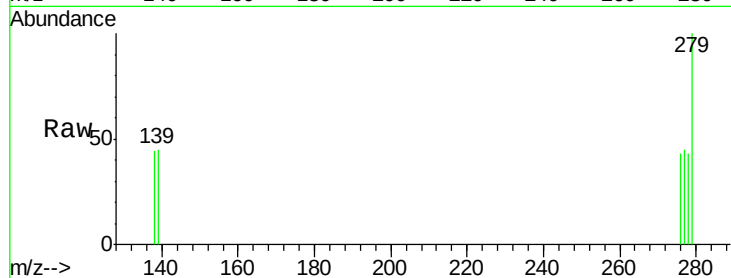




#26  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.00 ng/ul  
 RT: 25.70 min Scan# 1824  
 Delta R.T. 0.03 min  
 Lab File: BM000620.D  
 Acq: 27 Feb 2015 23:16

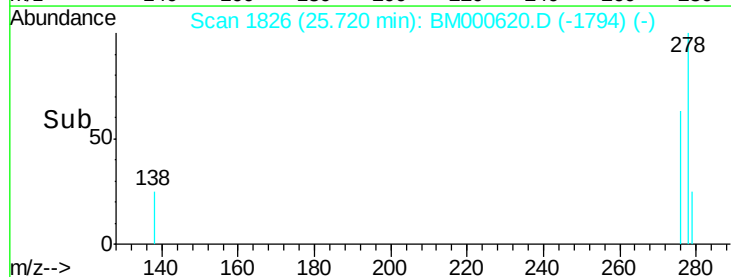
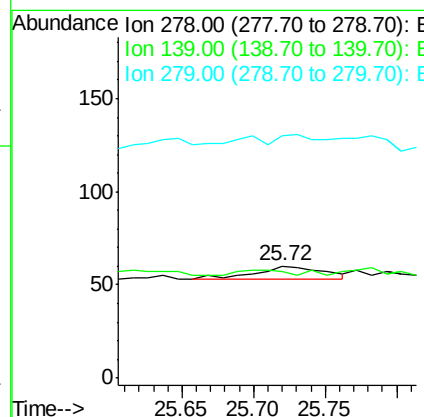
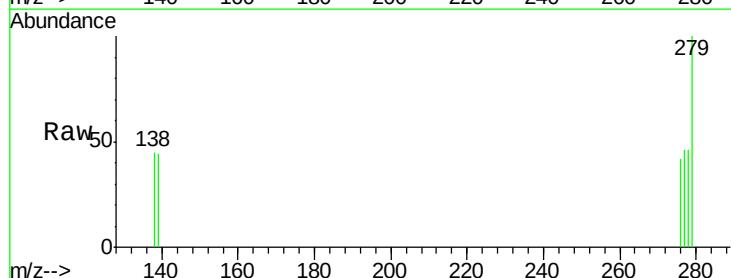
Instrument :  
 BNA\_M  
 ClientSampleId :

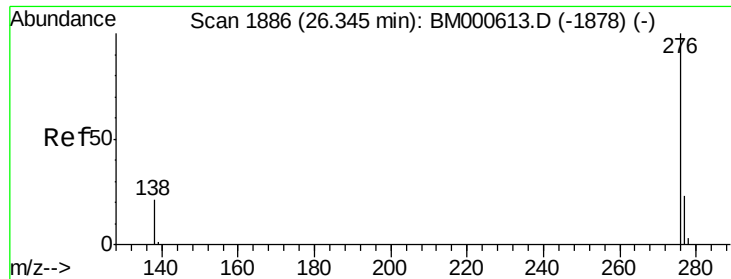
Tgt Ion: 276 Resp: 34  
 Ion Ratio Lower Upper  
 276 100  
 138 0.0 19.7 29.5#  
 277 0.0 19.9 29.9#



#27  
 Dibenzo(a,h)anthracene  
 Concen: 0.00 ng/ul  
 RT: 25.72 min Scan# 1826  
 Delta R.T. 0.03 min  
 Lab File: BM000620.D  
 Acq: 27 Feb 2015 23:16

Tgt Ion: 278 Resp: 23  
 Ion Ratio Lower Upper  
 278 100  
 139 95.0 13.3 19.9#  
 279 216.7 21.9 32.9#





#28

Benzo(g,h,i)perylene

Concen: 0.00 ng/ul

RT: 26.36 min Scan# 1887

Delta R.T. 0.01 min

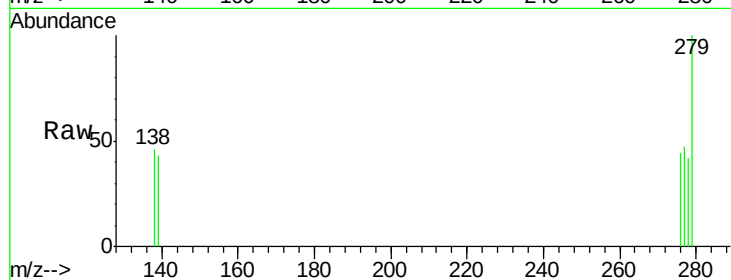
Lab File: BM000620.D

Acq: 27 Feb 2015 23:16

Instrument :

BNA\_M

ClientSampleId :



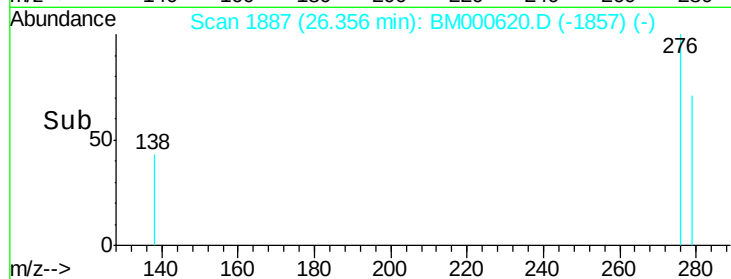
Tgt Ion: 276 Resp: 29

Ion Ratio Lower Upper

276 100

277 107.1 19.8 29.8#

138 105.4 17.8 26.6#



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

