

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM121515\  
 Data File : BM003557.D  
 Acq On : 15 Dec 2015 20:18  
 Operator : UM/IZ  
 Sample : PB87221BL  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SBLK21

Quant Time: Dec 16 05:55:20 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-SIM-BM121515.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 16 05:49:57 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.71  | 152  | 4939     | 0.40 | ng/ul | 0.00     |
| 4) Naphthalene-d8         | 10.50 | 136  | 19442    | 0.40 | ng/ul | 0.00     |
| 8) Acenaphthene-d10       | 14.37 | 164  | 10819    | 0.40 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.21 | 188  | 1414827  | 0.40 | ng/ul | 0.10     |
| 18) Chrysene-d12          | 21.31 | 240  | 18268    | 0.40 | ng/ul | -0.01    |
| 22) Perylene-d12          | 23.42 | 264  | 1196638  | 0.40 | ng/ul | -0.15    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 2) 1,4-Dioxane-d8           | 3.18  | 96   | 30435    | 14.42 | ng/uL | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.10 | 152  | 8099     | 0.35  | ng/ul | 0.00     |
| 16) Fluoranthene-d10        | 19.15 | 212  | 14162    | 0.00  | ng/ul | 0.00     |

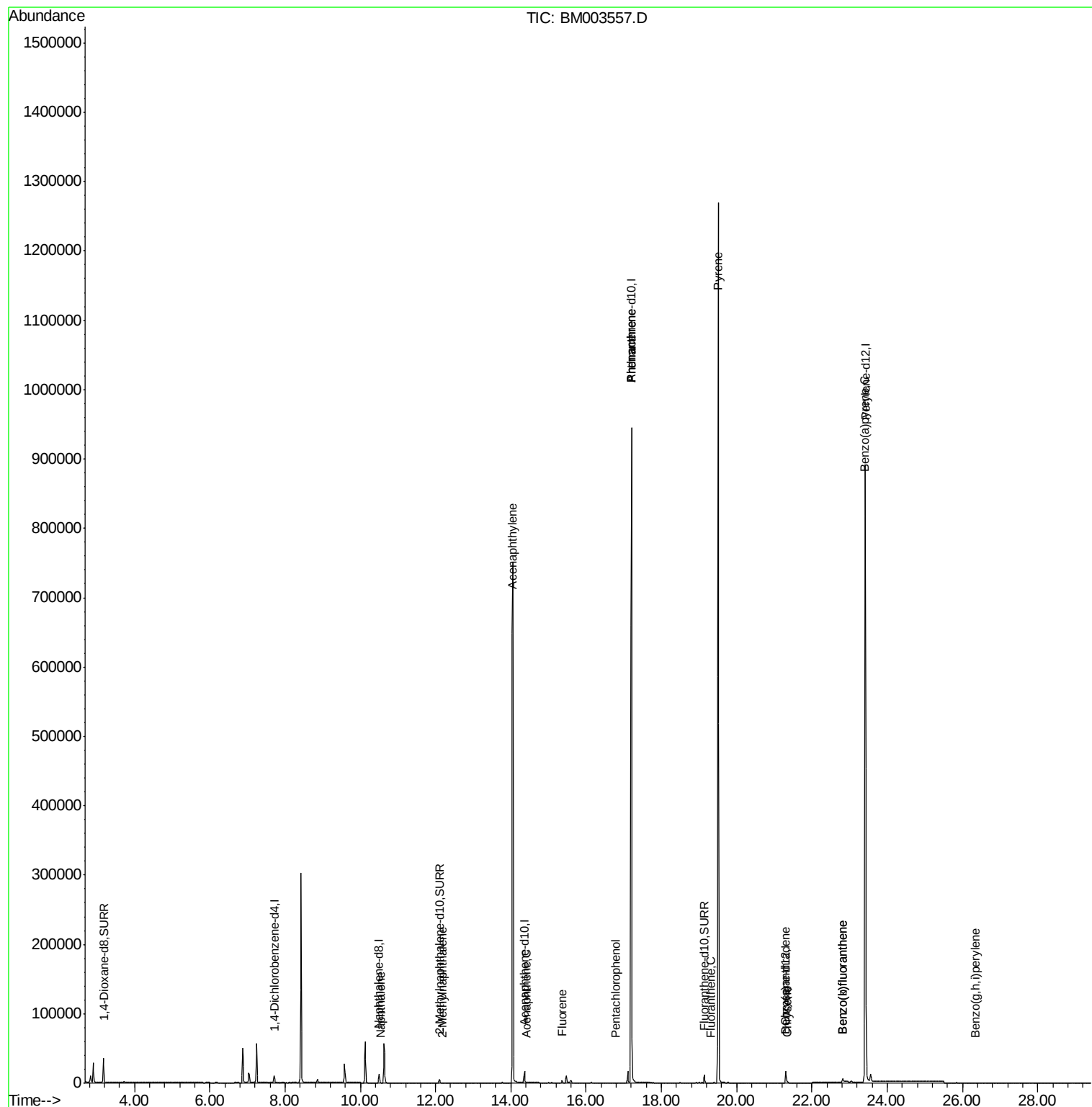
| Target Compounds         | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|--------------------------|-------|------|----------|------|--------|--------|
| 5) Naphthalene           | 10.55 | 128  | 157      | 0.00 | ng/ul# | 1      |
| 7) 2-Methylnaphthalene   | 12.17 | 142  | 27       | 0.00 | ng/ul# | 71     |
| 9) Acenaphthylene        | 14.04 | 152  | 132      | 0.00 | ng/ul# | 1      |
| 10) Acenaphthene         | 14.42 | 153  | 37       | 0.00 | ng/ul# | 65     |
| 11) Fluorene             | 15.36 | 166  | 2759     | 0.07 | ng/ul# | 20     |
| 13) Pentachlorophenol    | 16.78 | 266  | 27       | 0.00 | ng/ul# | 81     |
| 14) Phenanthrene         | 17.21 | 178  | 825      | 0.00 | ng/ul# | 1      |
| 15) Anthracene           | 17.21 | 178  | 670      | 0.00 | ng/ul# | 1      |
| 17) Fluoranthene         | 19.32 | 202  | 8        | 0.00 | ng/ul# | 1      |
| 19) Pyrene               | 19.51 | 202  | 2371     | 0.05 | ng/ul# | 1      |
| 20) Benzo(a)anthracene   | 21.30 | 228  | 481      | 0.01 | ng/ul# | 64     |
| 21) Chrysene             | 21.35 | 228  | 2070     | 0.04 | ng/ul  | 91     |
| 23) Benzo(b)fluoranthene | 22.82 | 252  | 52       | 0.00 | ng/ul# | 1      |
| 24) Benzo(k)fluoranthene | 22.82 | 252  | 52       | 0.00 | ng/ul# | 1      |
| 25) Benzo(a)pyrene       | 23.41 | 252  | 4718     | 0.00 | ng/ul# | 64     |
| 28) Benzo(g,h,i)perylene | 26.35 | 276  | 7        | 0.00 | ng/ul# | 1      |

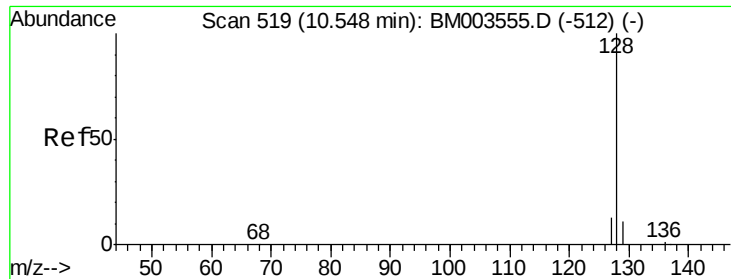
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Naphthalene

Concen: 0.00 ng/ul

RT: 10.55 min Scan# 519

Delta R.T. 0.00 min

Lab File: BM003557.D

Acq: 15 Dec 2015 20:18

Instrument :

BNA\_M

ClientSampleId :

SBLK21

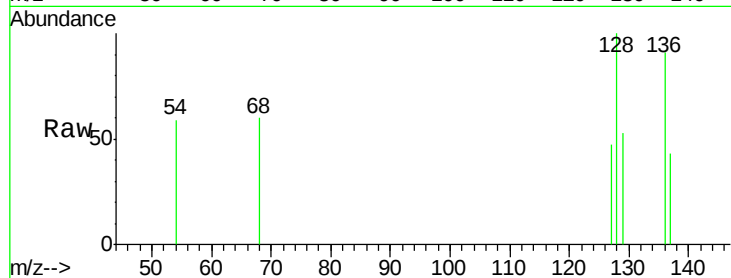
Tgt Ion:128 Resp: 157

Ion Ratio Lower Upper

128 100

129 53.2 9.0 13.6#

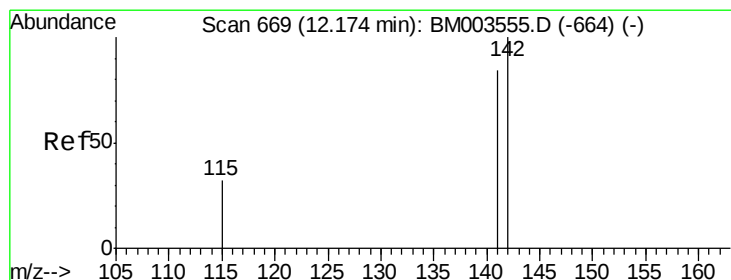
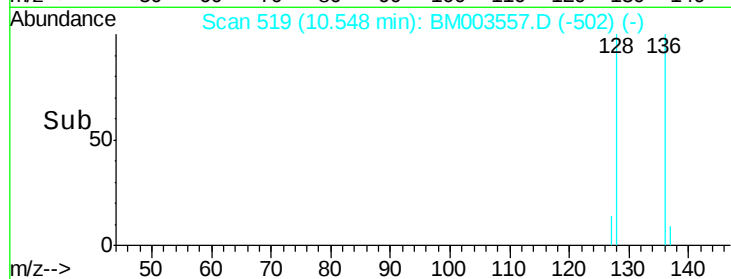
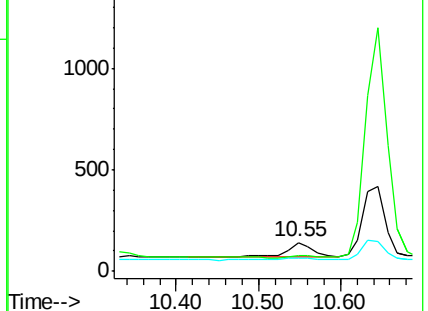
127 46.8 9.6 14.4#



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



#7

2-Methylnaphthalene

Concen: 0.00 ng/ul

RT: 12.17 min Scan# 669

Delta R.T. 0.00 min

Lab File: BM003557.D

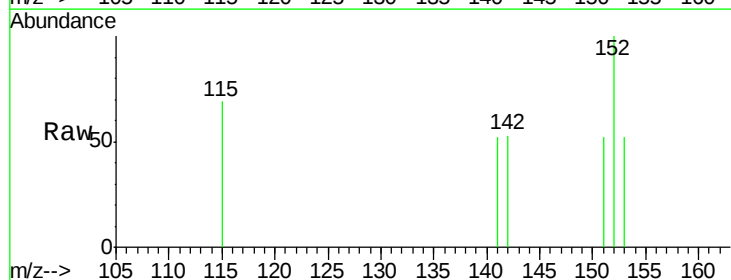
Acq: 15 Dec 2015 20:18

Tgt Ion:142 Resp: 27

Ion Ratio Lower Upper

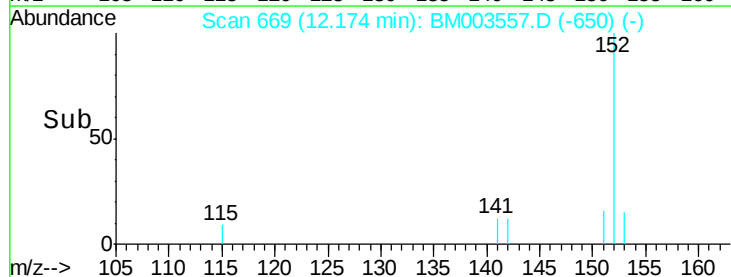
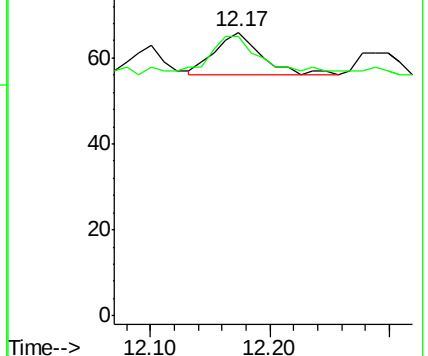
142 100

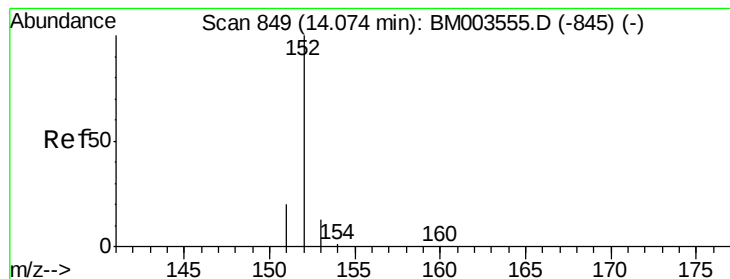
141 114.8 70.3 105.5#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#9

Acenaphthylene

Concen: 0.00 ng/ul

RT: 14.04 min Scan# 847

Delta R.T. -0.03 min

Lab File: BM003557.D

Acq: 15 Dec 2015 20:18

Instrument :

BNA\_M

ClientSampleId :

SBLK21

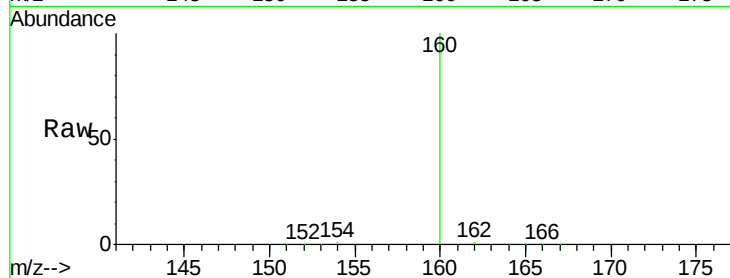
Tgt Ion:152 Resp: 132

Ion Ratio Lower Upper

152 100

151 50.8 17.6 26.4#

153 133.3 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

14.04

200

150

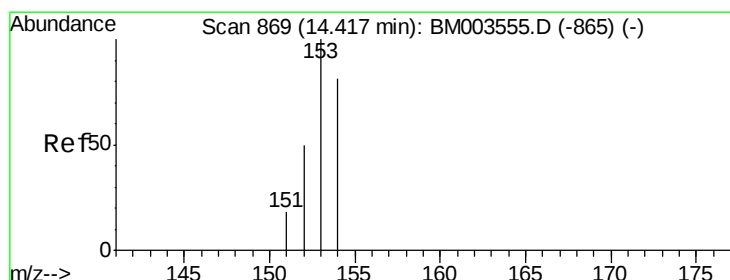
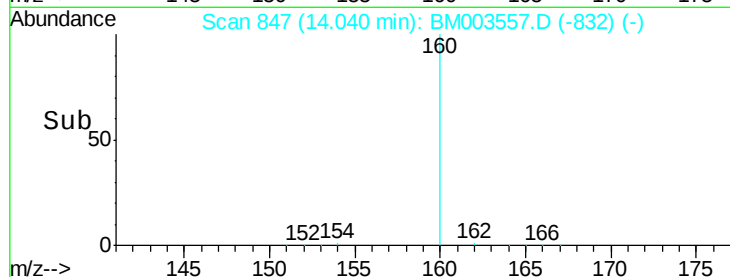
100

50

0

Time-->

14.00 14.10 14.20



#10

Acenaphthene

Concen: 0.00 ng/ul

RT: 14.42 min Scan# 869

Delta R.T. 0.00 min

Lab File: BM003557.D

Acq: 15 Dec 2015 20:18

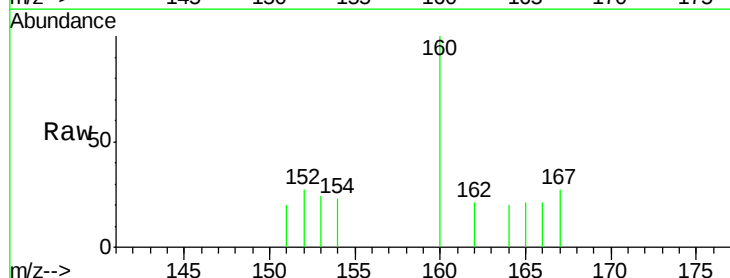
Tgt Ion:153 Resp: 37

Ion Ratio Lower Upper

153 100

152 110.4 33.9 50.9#

154 96.1 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

14.42

100

80

60

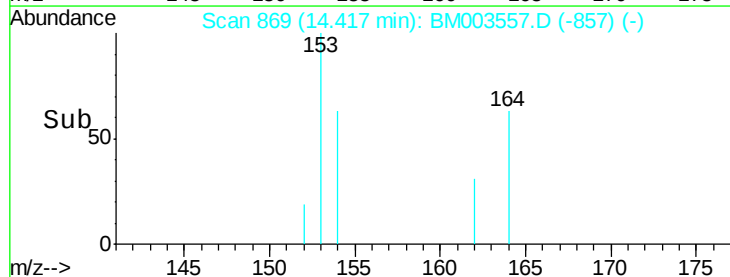
40

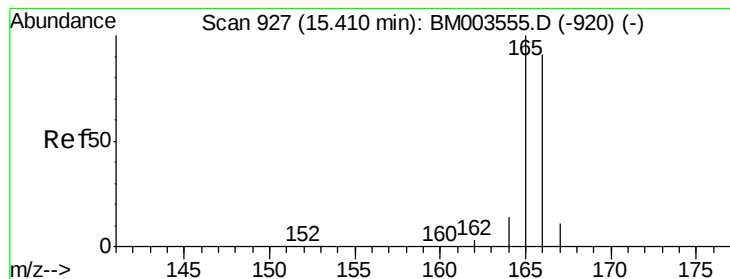
20

0

Time-->

14.30 14.40 14.50





#11

Fluorene

Concen: 0.07 ng/ul

RT: 15.36 min Scan# 924

Delta R.T. -0.05 min

Lab File: BM003557.D

Acq: 15 Dec 2015 20:18

Instrument :

BNA\_M

ClientSampleId :

SBLK21

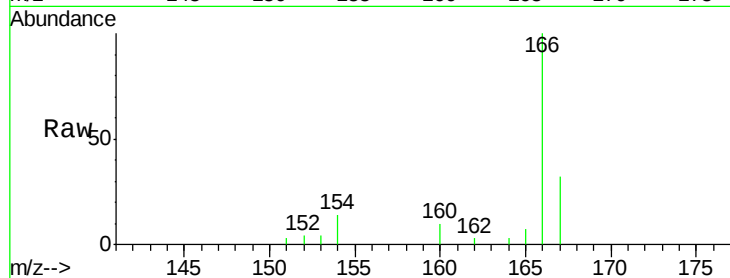
Tgt Ion:166 Resp: 2759

Ion Ratio Lower Upper

166 100

165 6.6 69.6 104.4#

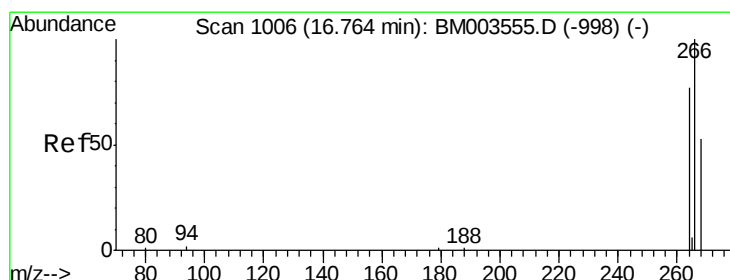
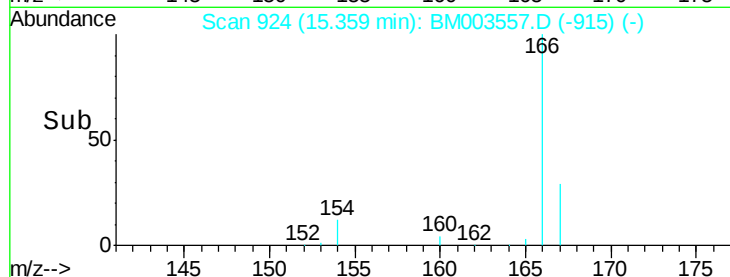
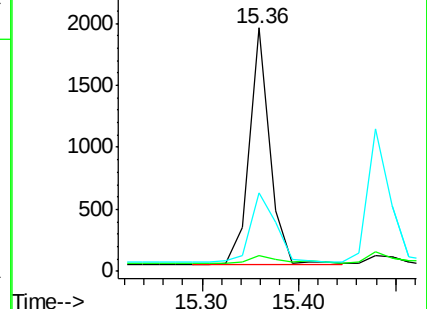
167 32.3 11.9 17.9#



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: 0.00 ng/ul

RT: 16.78 min Scan# 1007

Delta R.T. 0.02 min

Lab File: BM003557.D

Acq: 15 Dec 2015 20:18

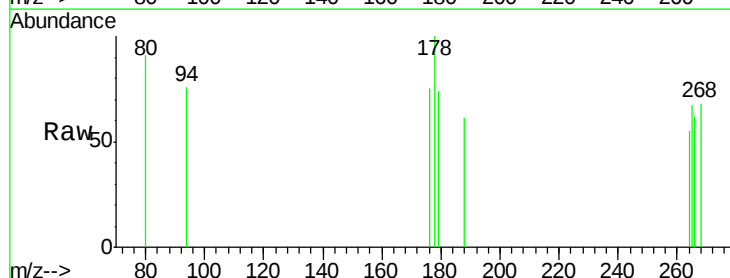
Tgt Ion:266 Resp: 27

Ion Ratio Lower Upper

266 100

264 51.9 51.8 77.8

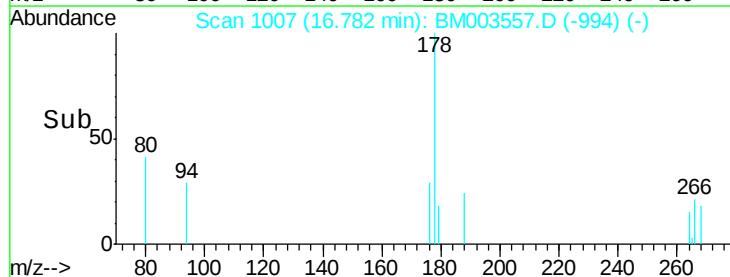
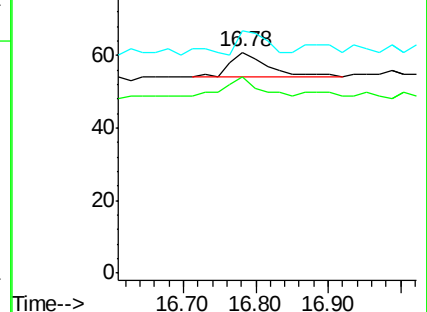
268 74.1 46.8 70.2#

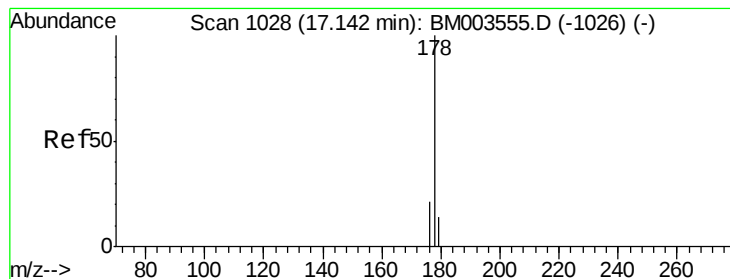


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#14

Phenanthrene

Concen: 0.00 ng/ul

RT: 17.21 min Scan# 1032

Delta R.T. 0.07 min

Lab File: BM003557.D

Acq: 15 Dec 2015 20:18

Instrument :

BNA\_M

ClientSampleId :

SBLK21

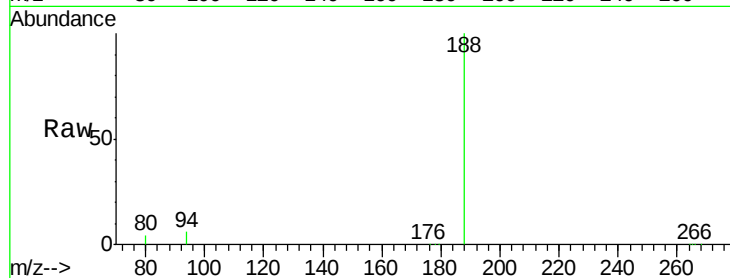
Tgt Ion:178 Resp: 825

Ion Ratio Lower Upper

178 100

176 18.7 13.0 19.4

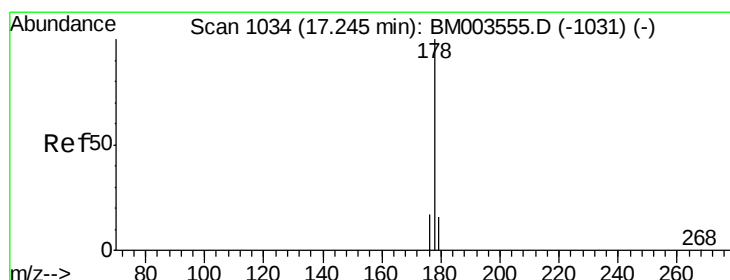
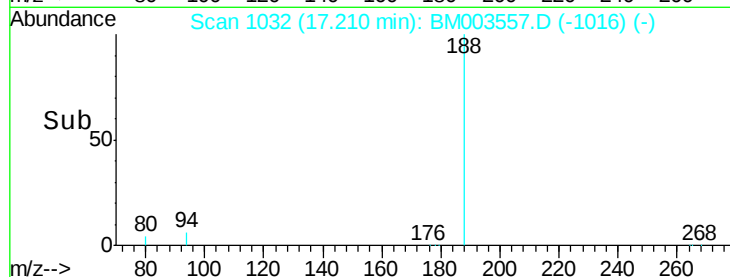
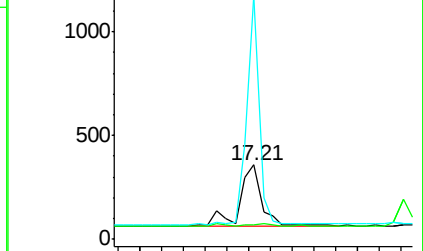
179 326.5 14.2 21.2#



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: 0.00 ng/ul

RT: 17.21 min Scan# 1032

Delta R.T. -0.03 min

Lab File: BM003557.D

Acq: 15 Dec 2015 20:18

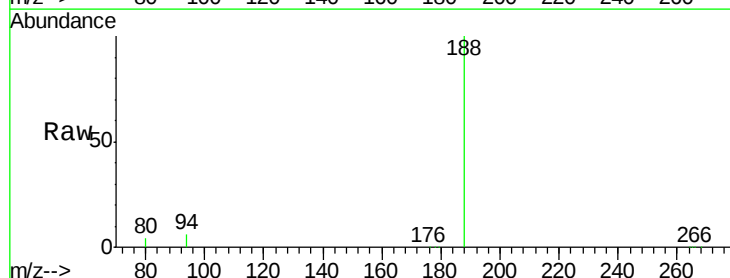
Tgt Ion:178 Resp: 670

Ion Ratio Lower Upper

178 100

176 18.7 14.0 21.0

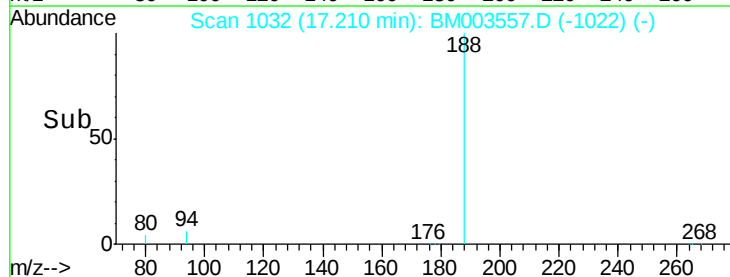
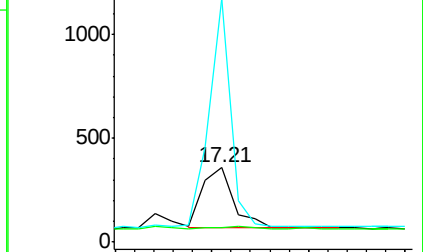
179 326.5 12.9 19.3#

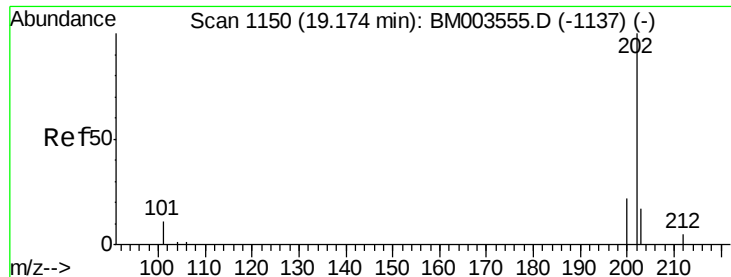


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

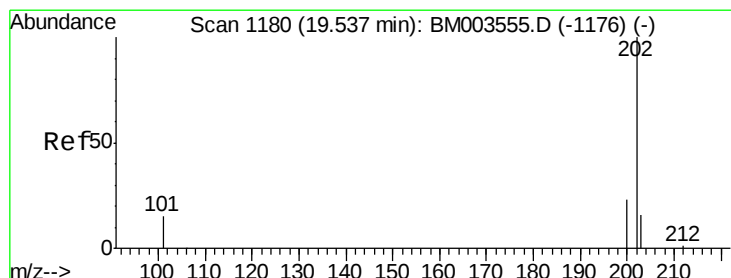
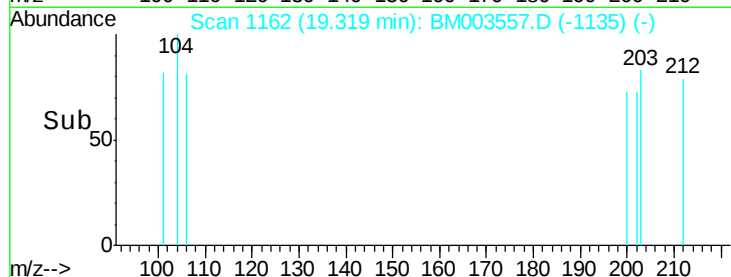
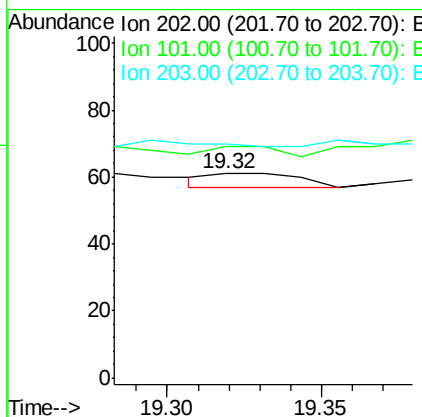
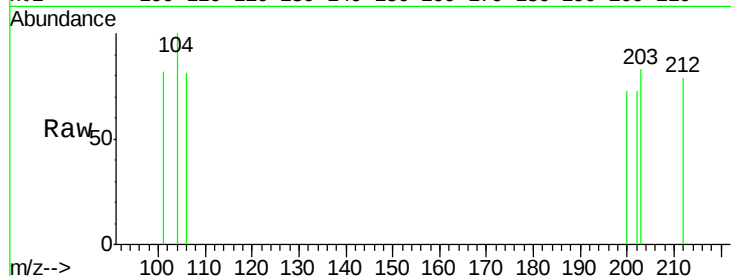




#17  
Fluoranthene  
Concen: 0.00 ng/ul  
RT: 19.32 min Scan# 1162  
Delta R.T. 0.15 min  
Lab File: BM003557.D  
Acq: 15 Dec 2015 20:18

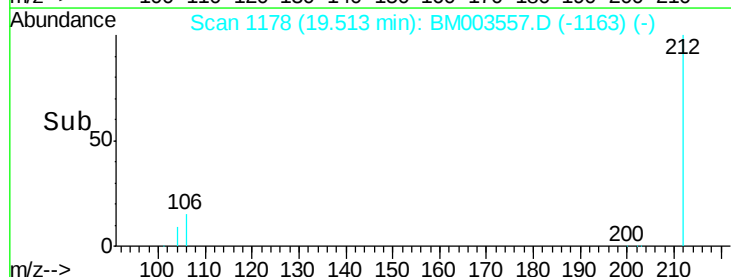
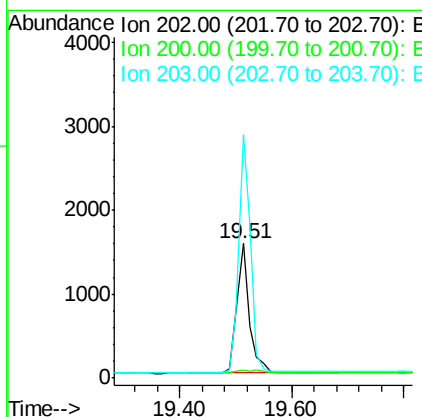
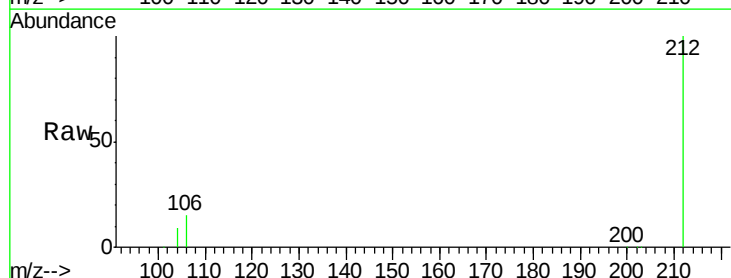
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SBLK21

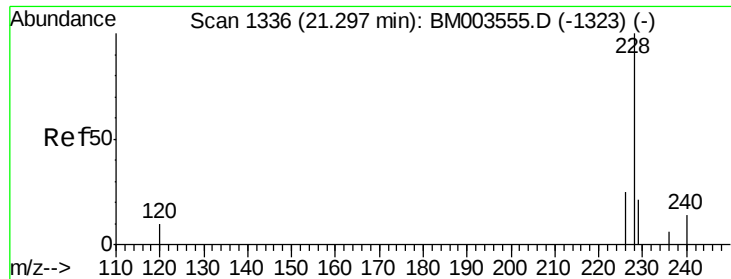
Tgt Ion: 202 Resp: 8  
Ion Ratio Lower Upper  
202 100  
101 113.1 0.0 29.6#  
203 114.8 0.0 36.3#



#19  
Pyrene  
Concen: 0.05 ng/ul  
RT: 19.51 min Scan# 1178  
Delta R.T. -0.02 min  
Lab File: BM003557.D  
Acq: 15 Dec 2015 20:18

Tgt Ion: 202 Resp: 2371  
Ion Ratio Lower Upper  
202 100  
200 6.0 17.8 26.8#  
203 181.4 12.8 19.2#





#20

Benzo(a)anthracene

Concen: 0.01 ng/ul

RT: 21.30 min Scan# 1336

Delta R.T. 0.00 min

Lab File: BM003557.D

Acq: 15 Dec 2015 20:18

Instrument :

BNA\_M

ClientSampleId :

SBLK21

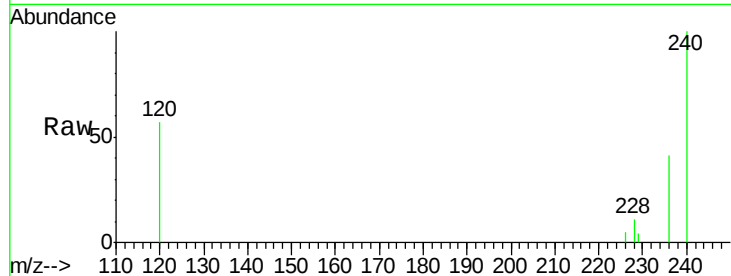
Tgt Ion:228 Resp: 481

Ion Ratio Lower Upper

228 100

226 41.4 18.8 28.2#

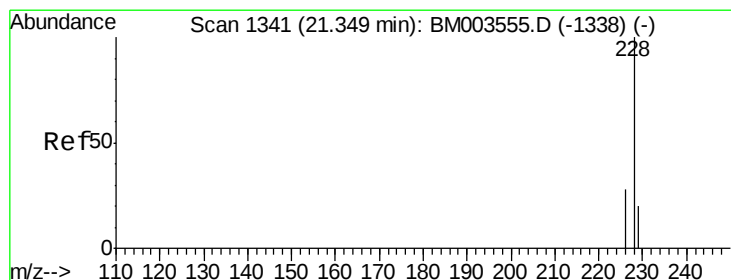
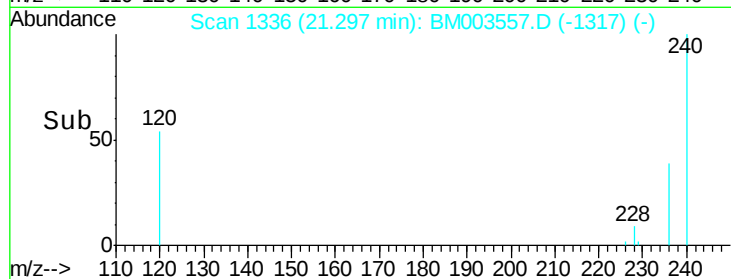
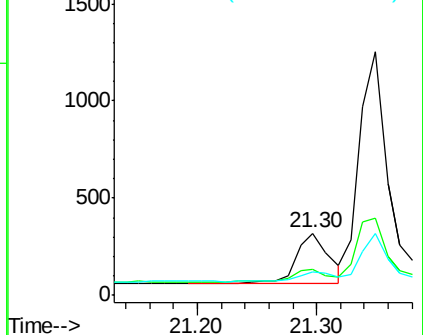
229 38.2 17.1 25.7#



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: 0.04 ng/ul

RT: 21.35 min Scan# 1341

Delta R.T. 0.00 min

Lab File: BM003557.D

Acq: 15 Dec 2015 20:18

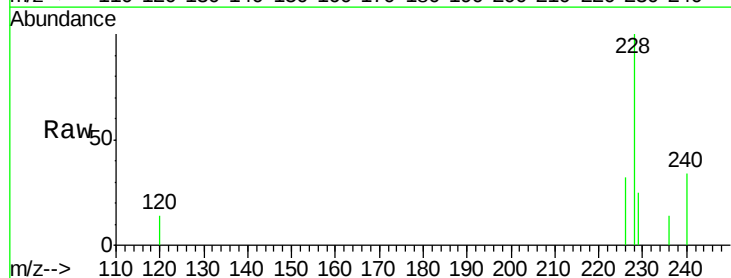
Tgt Ion:228 Resp: 2070

Ion Ratio Lower Upper

228 100

226 31.6 21.2 31.8

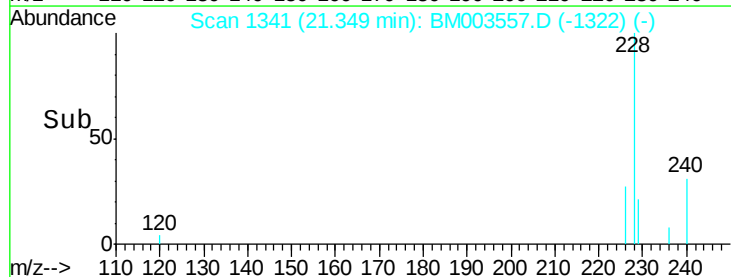
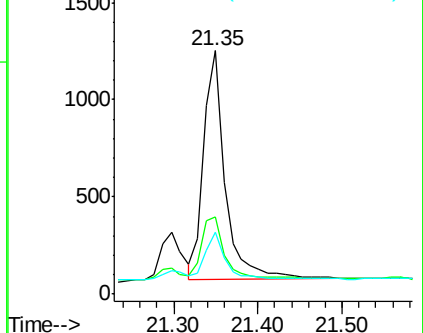
229 25.1 17.0 25.6

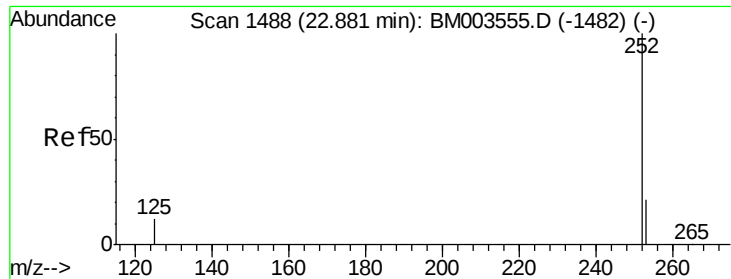


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Benzo(b)fluoranthene

Concen: 0.00 ng/u1

RT: 22.82 min Scan# 1482

Delta R.T. -0.06 min

Lab File: BM003557.D

Acq: 15 Dec 2015 20:18

Instrument :

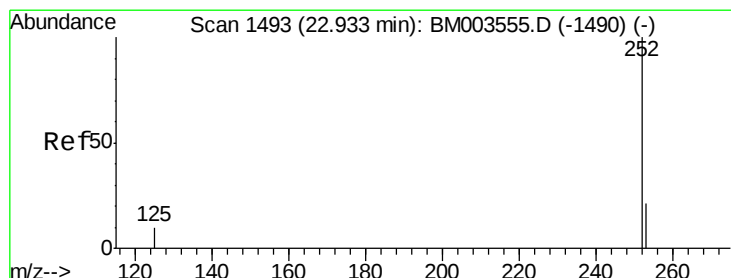
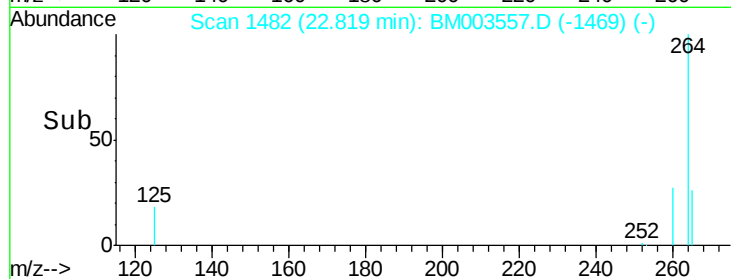
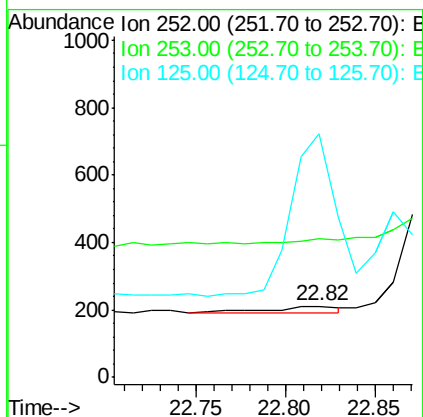
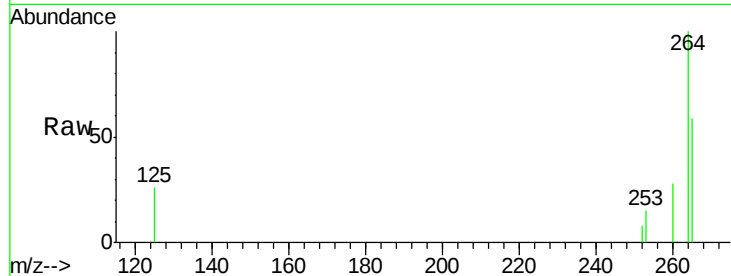
BNA\_M

ClientSampleId :

SBLK21

Tgt Ion:252 Resp: 52

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 195.3 | 0.0   | 45.4# |
| 125 | 342.2 | 0.0   | 28.8# |



#24

Benzo(k)fluoranthene

Concen: 0.00 ng/u1

RT: 22.82 min Scan# 1482

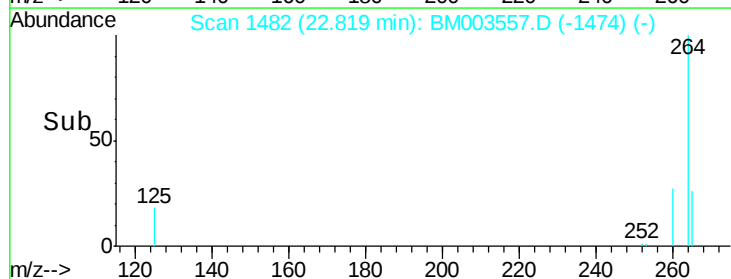
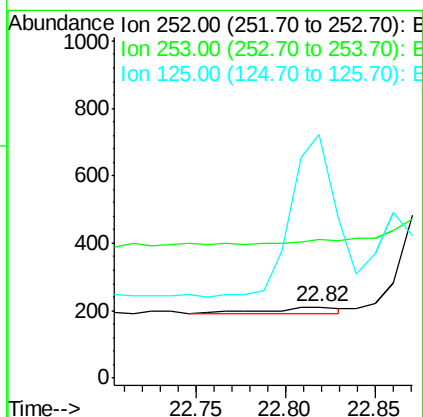
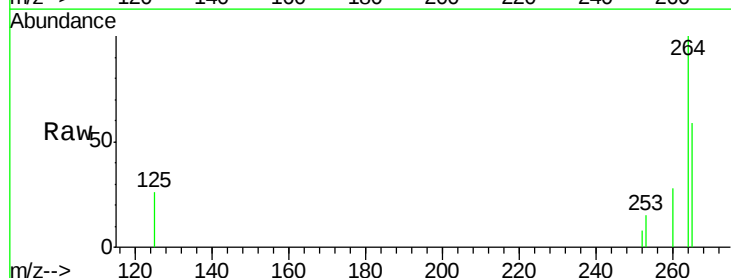
Delta R.T. -0.11 min

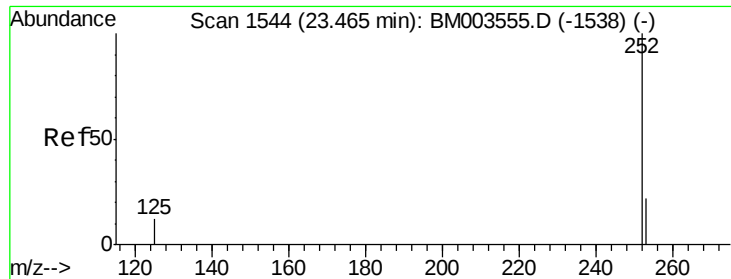
Lab File: BM003557.D

Acq: 15 Dec 2015 20:18

Tgt Ion:252 Resp: 52

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 195.3 | 19.8  | 29.8# |
| 125 | 342.2 | 10.4  | 15.6# |





#25

Benzo(a)pyrene

Concen: 0.00 ng/ul

RT: 23.41 min Scan# 1539

Delta R.T. -0.05 min

Lab File: BM003557.D

Acq: 15 Dec 2015 20:18

Instrument :

BNA\_M

ClientSampleId :

SBLK21

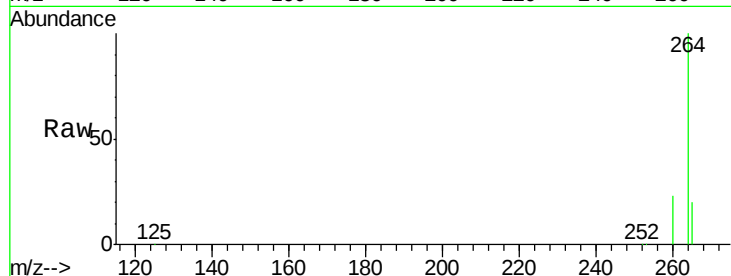
Tgt Ion: 252 Resp: 4718

Ion Ratio Lower Upper

252 100

253 39.7 19.4 29.2#

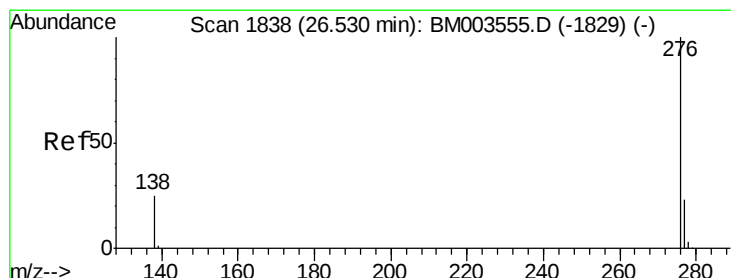
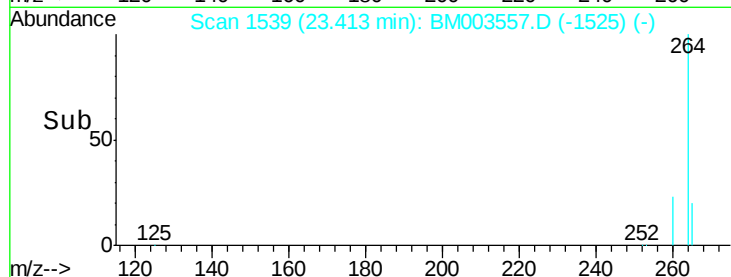
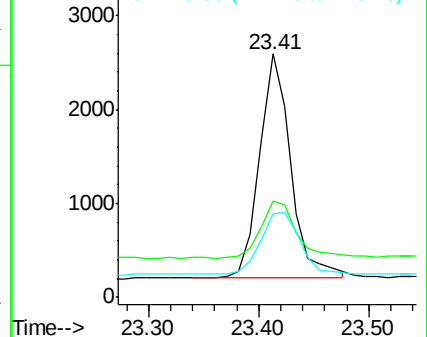
125 34.3 12.7 19.1#



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



#28

Benzo(g,h,i)perylene

Concen: 0.00 ng/ul

RT: 26.35 min Scan# 1821

Delta R.T. -0.18 min

Lab File: BM003557.D

Acq: 15 Dec 2015 20:18

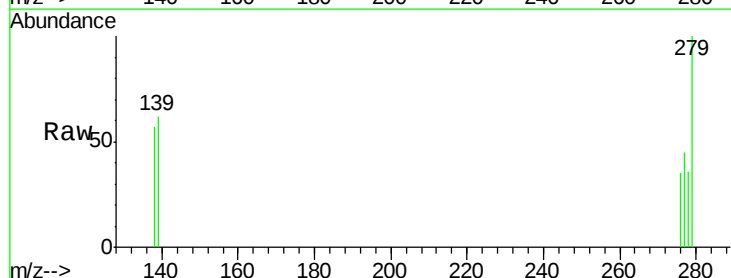
Tgt Ion: 276 Resp: 7

Ion Ratio Lower Upper

276 100

277 126.2 18.9 28.3#

138 160.7 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

