

Data File : BM021875.D  
Acq On : 07 Aug 2019 01:22  
Operator : HP/JU  
Sample : K3893-10  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BEP14

Quant Time: Aug 07 04:06:28 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 07 04:02:33 2019  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.63  | 152  | 887      | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.41 | 136  | 3705     | 0.40 | ng/ul | -0.02    |
| 6) Acenaphthene-d10       | 14.28 | 164  | 2056     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.13 | 188  | 263196   | 0.40 | ng/ul | 0.08     |
| 16) Chrysene-d12          | 21.28 | 240  | 100      | 0.40 | ng/ul | 0.04     |
| 20) Perylene-d12          | 23.45 | 264  | 7830     | 0.40 | ng/ul | -0.01    |

|                             |       |     |      |      |       |       |
|-----------------------------|-------|-----|------|------|-------|-------|
| System Monitoring Compounds |       |     |      |      |       |       |
| 4) 2-Methylnaphthalene-d10  | 12.02 | 152 | 1390 | 0.23 | ng/ul | -0.01 |
| 14) Fluoranthene-d10        | 0.00  | 212 | 0    | 0.00 | ng/ul |       |

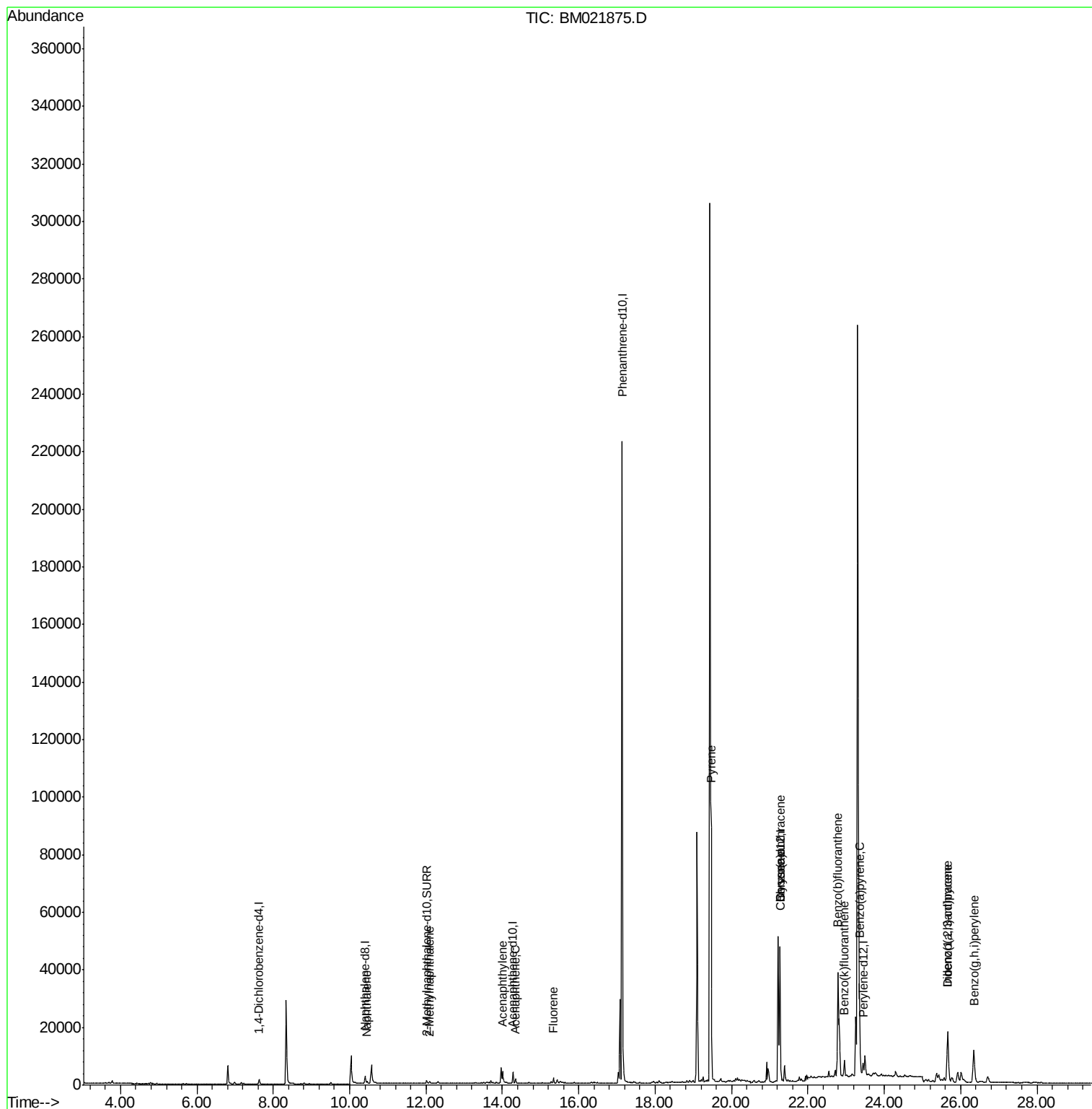
| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 3) Naphthalene             | 10.46 | 128  | 794      | 0.076   | ng/ul# | 86     |
| 5) 2-Methylnaphthalene     | 12.09 | 142  | 378      | 0.054   | ng/ul  | 94     |
| 7) Acenaphthylene          | 14.00 | 152  | 2279     | 0.238   | ng/ul# | 84     |
| 8) Acenaphthene            | 14.34 | 153  | 898      | 0.114   | ng/ul  | 97     |
| 9) Fluorene                | 15.34 | 166  | 1243     | 0.143   | ng/ul# | 98     |
| 17) Pyrene                 | 19.47 | 202  | 73382    | 178.575 | ng/ul  | 99     |
| 18) Benzo(a)anthracene     | 21.27 | 228  | 47754    | 133.505 | ng/ul  | 97     |
| 19) Chrysene               | 21.27 | 228  | 47946    | 104.226 | ng/ul  | 99     |
| 21) Benzo(b)fluoranthene   | 22.79 | 252  | 82108    | 3.110   | ng/ul  | 84     |
| 22) Benzo(k)fluoranthene   | 22.96 | 252  | 6346     | 0.212   | ng/ul  | 97     |
| 23) Benzo(a)pyrene         | 23.35 | 252  | 38961    | 1.451   | ng/ul# | 76     |
| 24) Indeno(1,2,3-cd)pyrene | 25.66 | 276  | 28188    | 0.879   | ng/ul# | 95     |
| 25) Dibenzo(a,h)anthracene | 25.67 | 278  | 7223     | 0.279   | ng/ul  | 94     |
| 26) Benzo(g,h,i)perylene   | 26.35 | 276  | 23289    | 0.807   | ng/ul  | 97     |

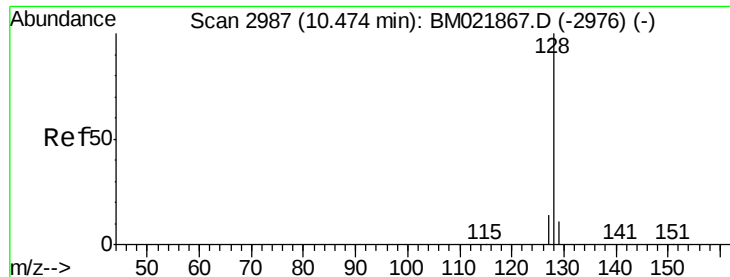
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Naphthalene

Concen: 0.076 ng/ul

RT: 10.46 min Scan# 2983

Delta R.T. -0.02 min

Lab File: BM021875.D

Acq: 07 Aug 2019 01:22

Instrument :

BNA\_M

ClientSampleId :

BEP14

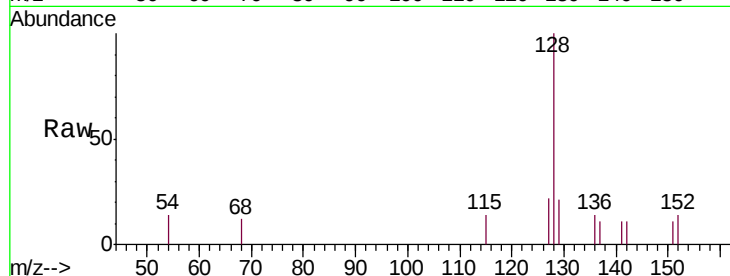
Tgt Ion:128 Resp: 794

Ion Ratio Lower Upper

128 100

129 21.1 12.3 18.5#

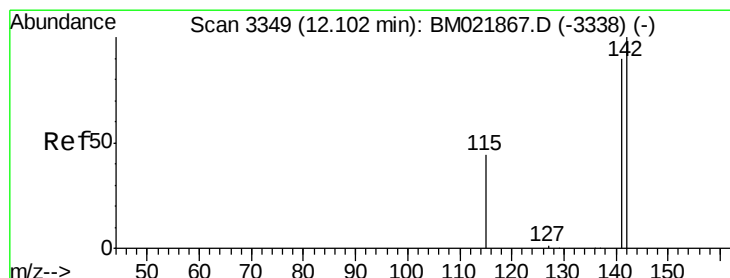
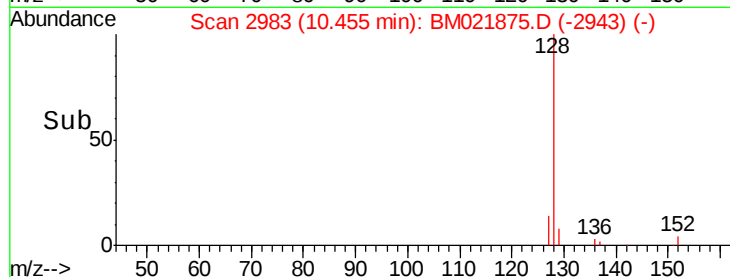
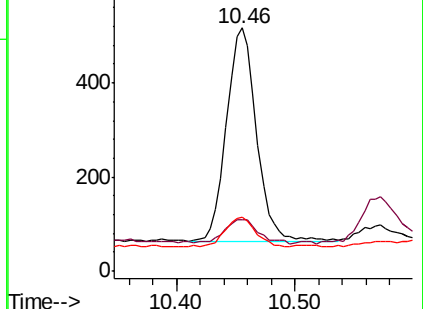
127 22.4 13.0 19.6#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#5

2-Methylnaphthalene

Concen: 0.054 ng/ul

RT: 12.09 min Scan# 3347

Delta R.T. -0.01 min

Lab File: BM021875.D

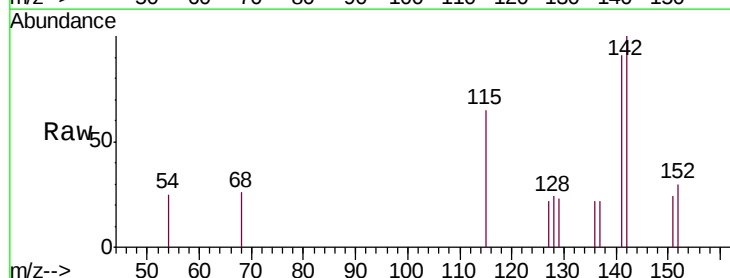
Acq: 07 Aug 2019 01:22

Tgt Ion:142 Resp: 378

Ion Ratio Lower Upper

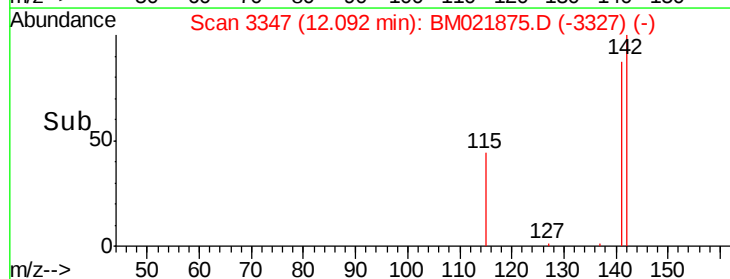
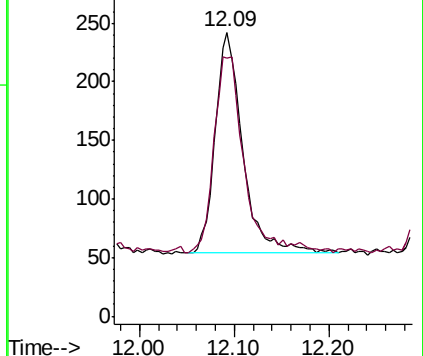
142 100

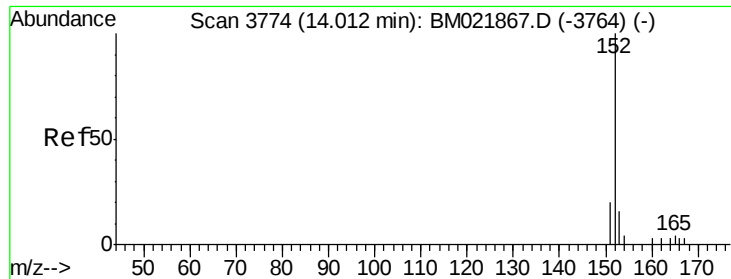
141 98.9 74.3 111.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.238 ng/ul

RT: 14.00 min Scan# 3771

Delta R.T. -0.01 min

Lab File: BM021875.D

Acq: 07 Aug 2019 01:22

Instrument :

BNA\_M

ClientSampleId :

BEP14

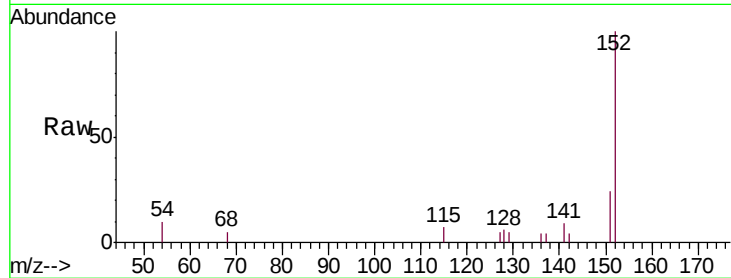
Tgt Ion:152 Resp: 2279

Ion Ratio Lower Upper

152 100

151 23.6 18.3 27.5

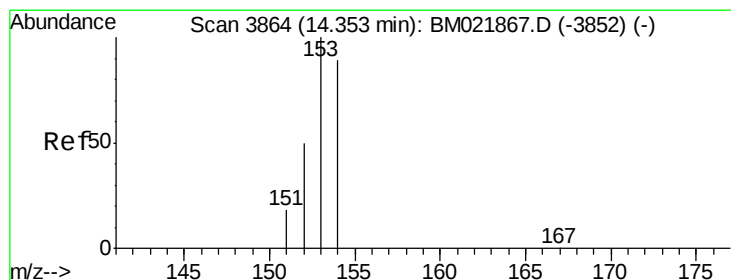
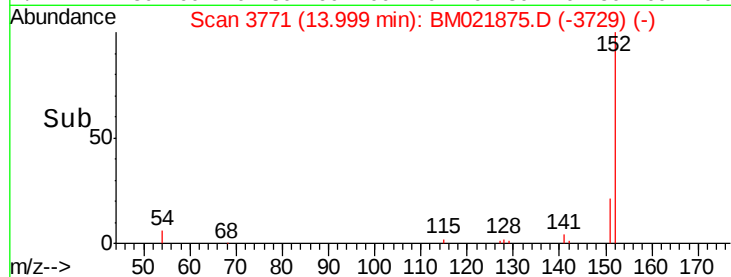
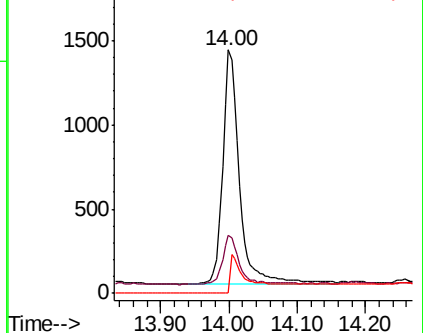
153 0.0 12.8 19.2#



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



#8

Acenaphthene

Concen: 0.114 ng/ul

RT: 14.34 min Scan# 3861

Delta R.T. -0.01 min

Lab File: BM021875.D

Acq: 07 Aug 2019 01:22

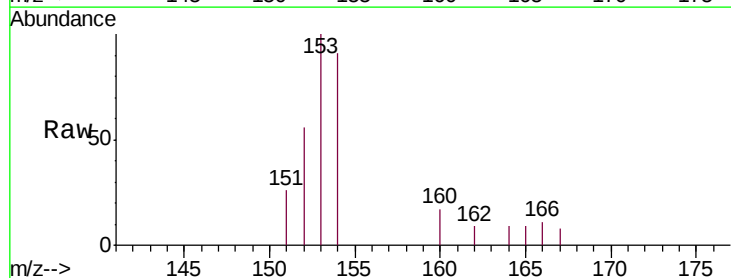
Tgt Ion:153 Resp: 898

Ion Ratio Lower Upper

153 100

152 55.8 41.3 61.9

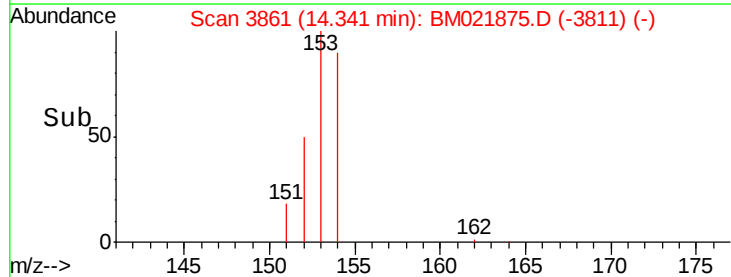
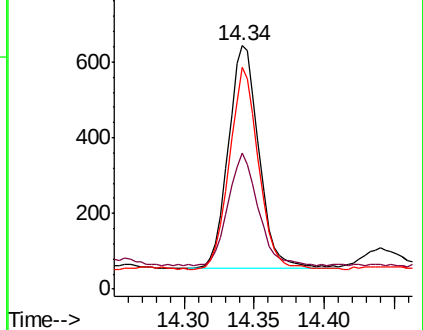
154 91.1 72.3 108.5

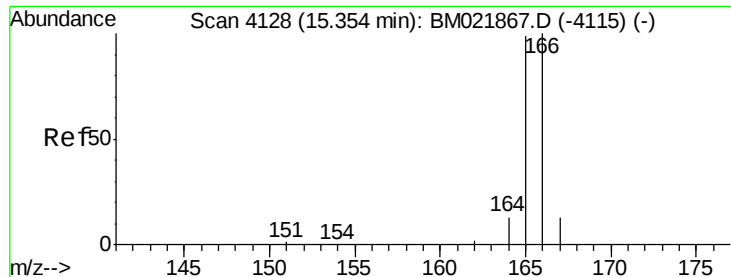


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

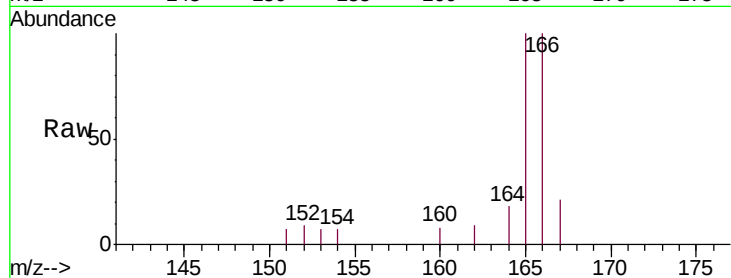




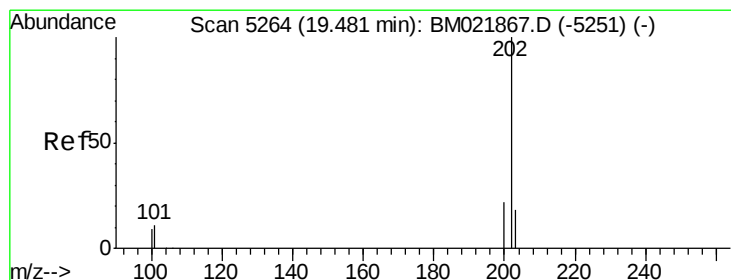
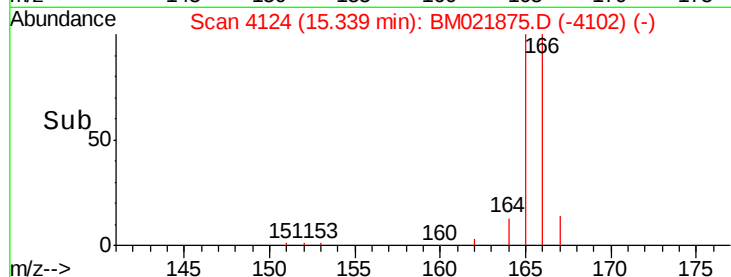
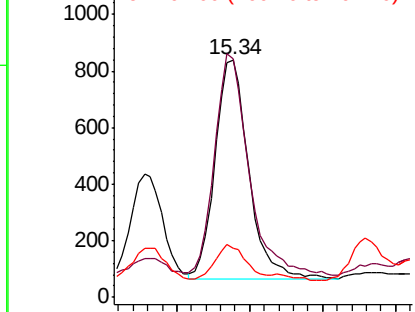
#9  
**Fluorene**  
 Concen: 0.143 ng/ul  
 RT: 15.34 min Scan# 4124  
 Delta R.T. -0.02 min  
 Lab File: BM021875.D  
 Acq: 07 Aug 2019 01:22

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BEP14

Tgt Ion:166 Resp: 1243  
 Ion Ratio Lower Upper  
 166 100  
 165 100.2 81.4 122.0  
 167 20.8 13.7 20.5#

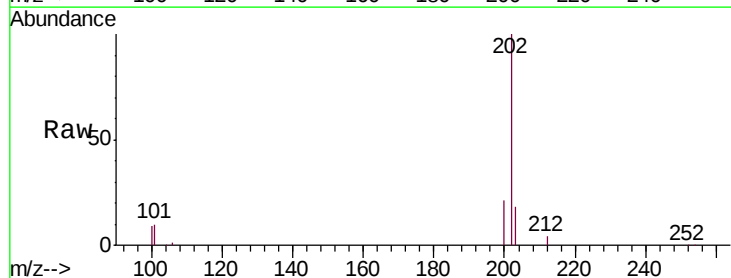


Abundance Ion 166.00 (165.70 to 166.70): E  
 Ion 165.00 (164.70 to 165.70): E  
 Ion 167.00 (166.70 to 167.70): E

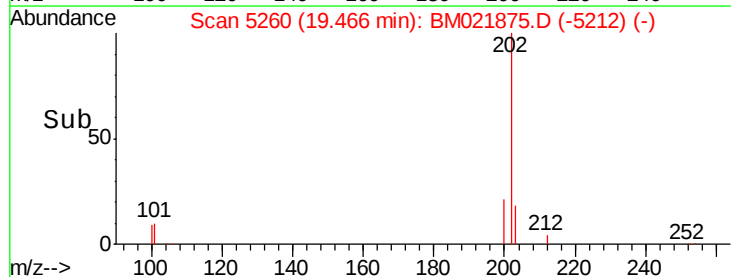
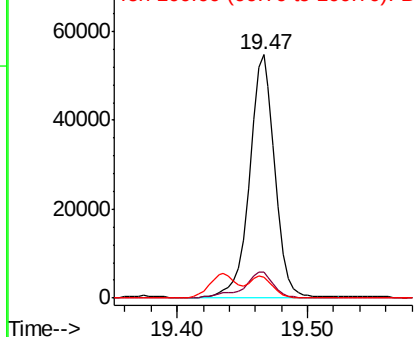


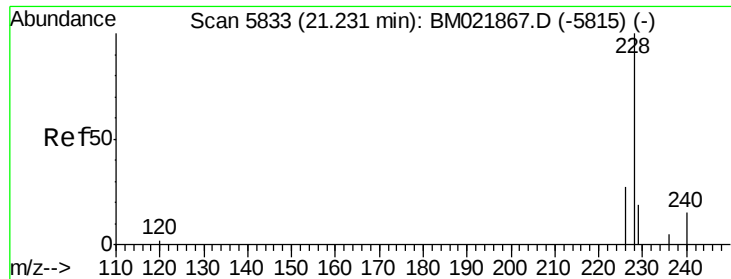
#17  
**Pyrene**  
 Concen: 178.575 ng/ul  
 RT: 19.47 min Scan# 5260  
 Delta R.T. -0.02 min  
 Lab File: BM021875.D  
 Acq: 07 Aug 2019 01:22

Tgt Ion:202 Resp: 73382  
 Ion Ratio Lower Upper  
 202 100  
 101 10.4 8.3 12.5  
 100 8.6 7.2 10.8



Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 100.00 (99.70 to 100.70): B





#18

Benzo(a)anthracene

Concen: 133.505 ng/ul

RT: 21.27 min Scan# 5850

Delta R.T. 0.04 min

Lab File: BM021875.D

Acq: 07 Aug 2019 01:22

Instrument :

BNA\_M

ClientSampleId :

BEP14

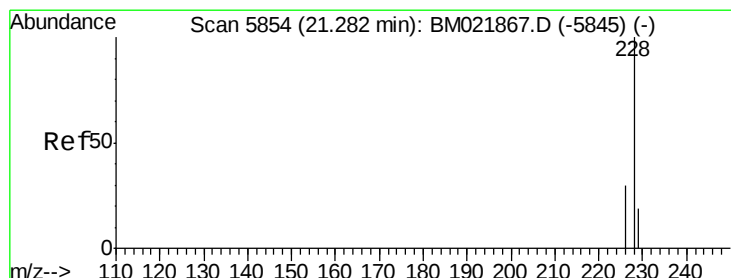
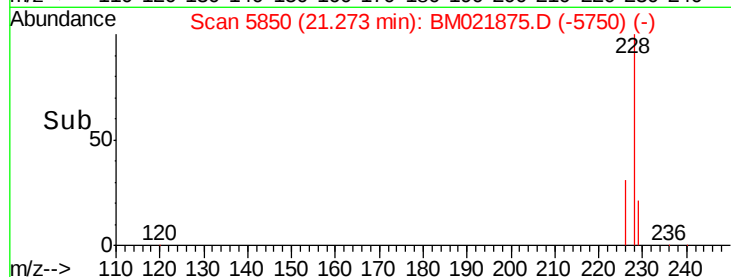
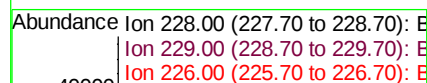
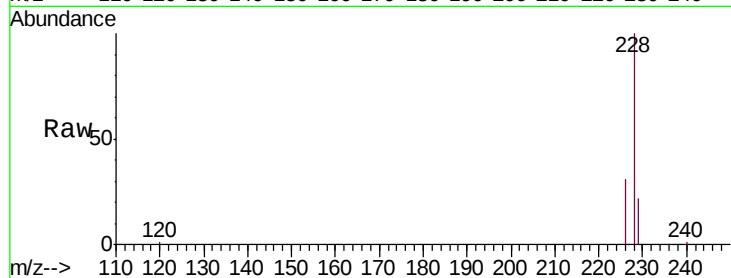
Tgt Ion:228 Resp: 47754

Ion Ratio Lower Upper

228 100

229 21.6 17.2 25.8

226 31.2 22.6 34.0



#19

Chrysene

Concen: 104.226 ng/ul

RT: 21.27 min Scan# 5850

Delta R.T. -0.01 min

Lab File: BM021875.D

Acq: 07 Aug 2019 01:22

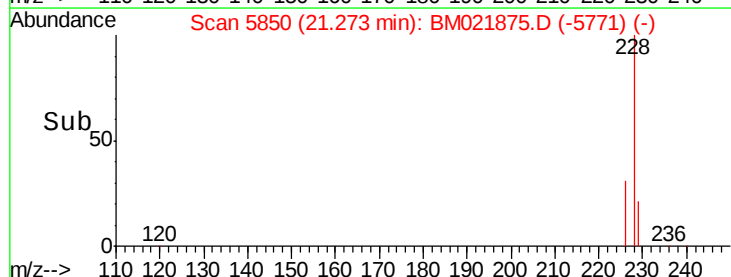
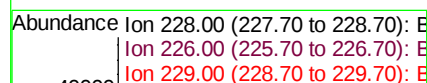
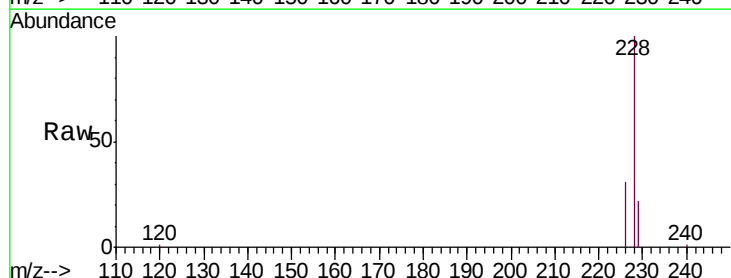
Tgt Ion:228 Resp: 47946

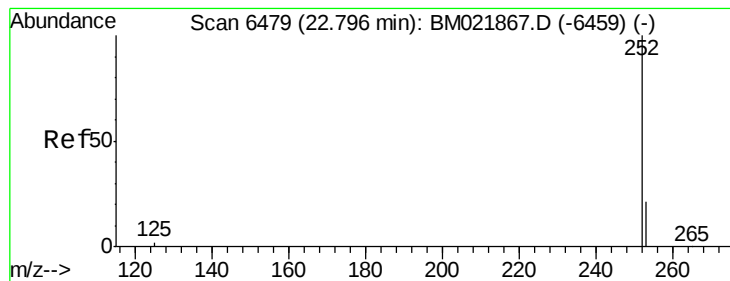
Ion Ratio Lower Upper

228 100

226 31.2 24.9 37.3

229 21.6 16.6 25.0





#21

Benzo(b)fluoranthene

Concen: 3.110 ng/u1

RT: 22.79 min Scan# 6476

Delta R.T. -0.01 min

Lab File: BM021875.D

Acq: 07 Aug 2019 01:22

Instrument :

BNA\_M

ClientSampleId :

BEP14

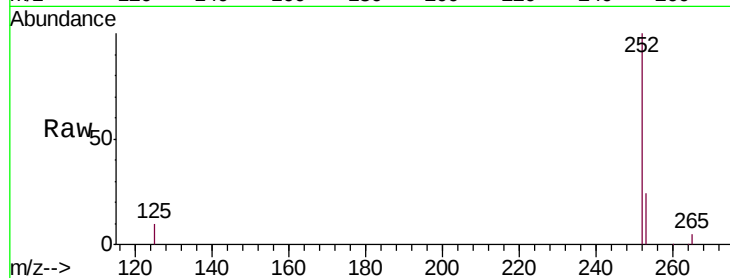
Tgt Ion:252 Resp: 82108

Ion Ratio Lower Upper

252 100

253 23.9 0.0 67.4

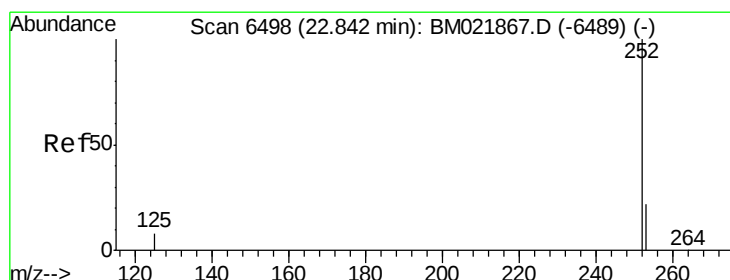
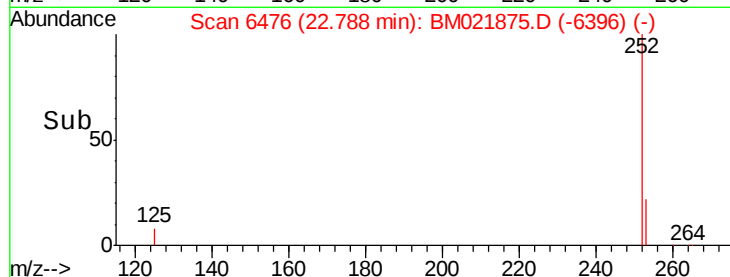
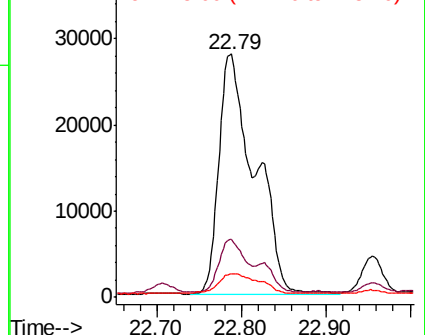
125 9.7 0.0 31.0



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



#22

Benzo(k)fluoranthene

Concen: 0.212 ng/u1

RT: 22.96 min Scan# 6545

Delta R.T. 0.11 min

Lab File: BM021875.D

Acq: 07 Aug 2019 01:22

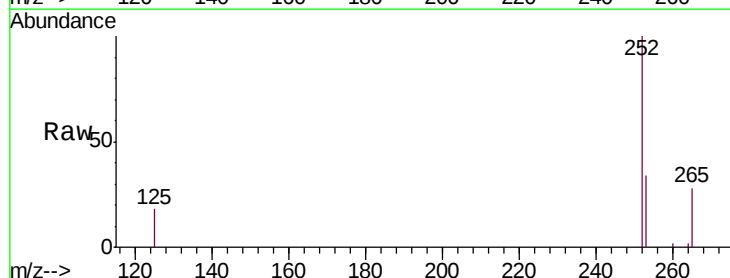
Tgt Ion:252 Resp: 6346

Ion Ratio Lower Upper

252 100

253 34.3 27.0 40.4

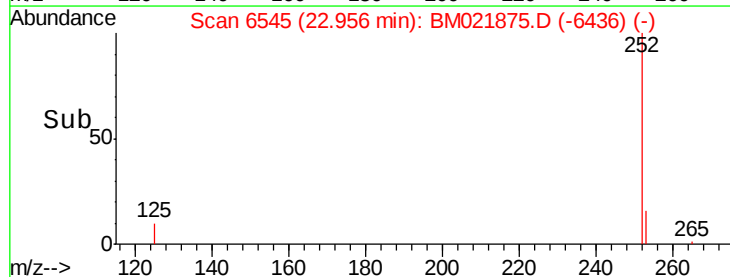
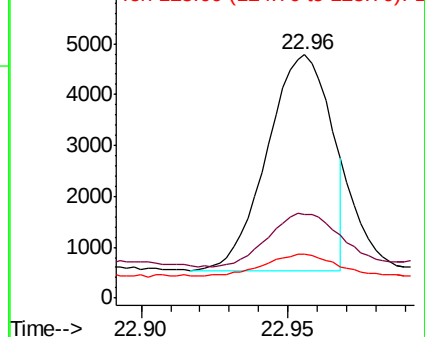
125 17.8 12.2 18.2

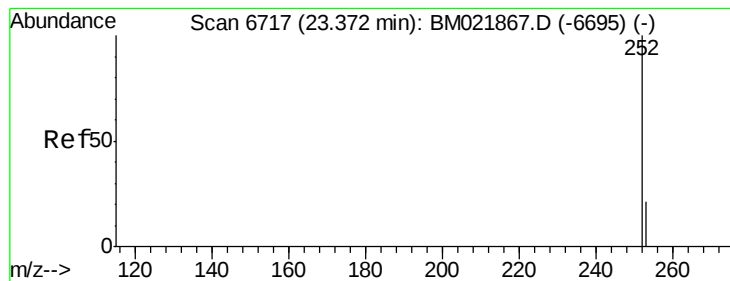


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 1.451 ng/u1

RT: 23.35 min Scan# 6708

Delta R.T. -0.02 min

Lab File: BM021875.D

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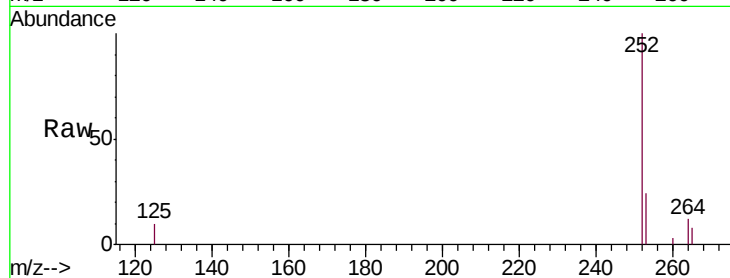
Tgt Ion:252 Resp: 38961

Ion Ratio Lower Upper

252 100

253 23.6 31.7 47.5#

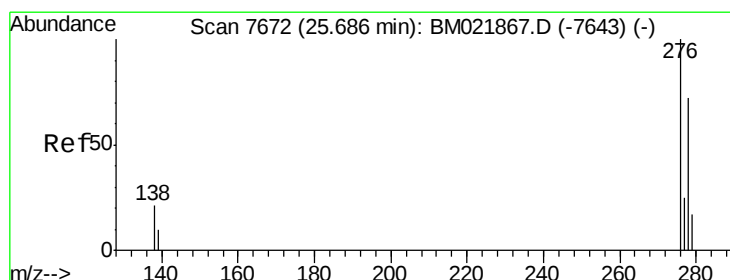
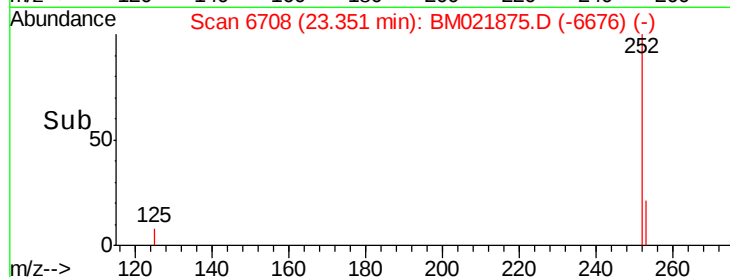
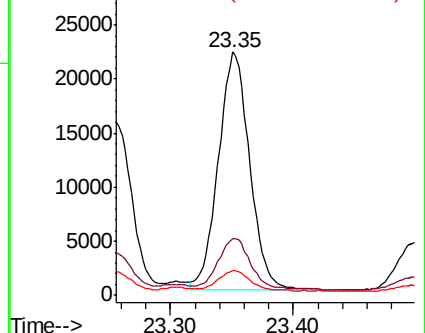
125 10.1 14.6 21.8#



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

Indeno(1,2,3-cd)pyrene

Concen: 0.879 ng/u1

RT: 25.66 min Scan# 7663

Delta R.T. -0.02 min

Lab File: BM021875.D

Acq: 07 Aug 2019 01:22

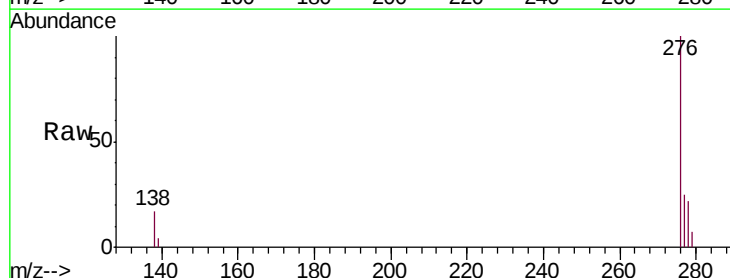
Tgt Ion:276 Resp: 28188

Ion Ratio Lower Upper

276 100

138 16.6 15.1 22.7

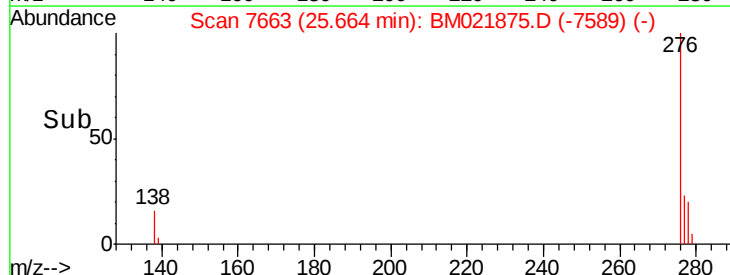
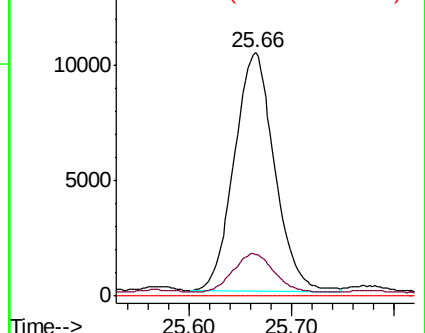
227 0.0 0.0 0.0

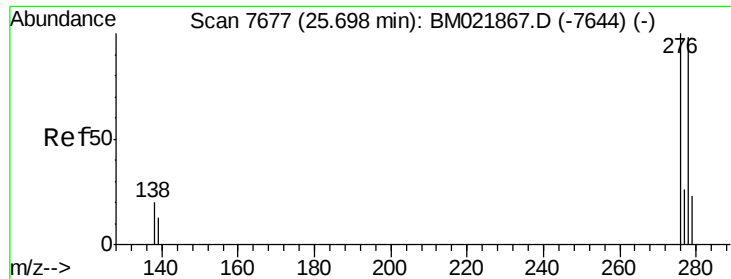


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E





#25

Dibenzo(a,h)anthracene

Concen: 0.279 ng/u1

RT: 25.67 min Scan# 7664

Delta R.T. -0.03 min

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BNA\_M

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BEP14

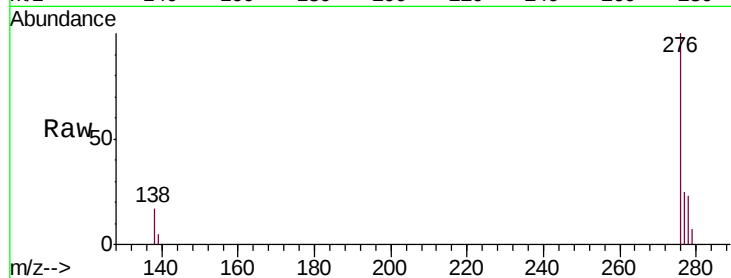
Tgt Ion:278 Resp: 7223

Ion Ratio Lower Upper

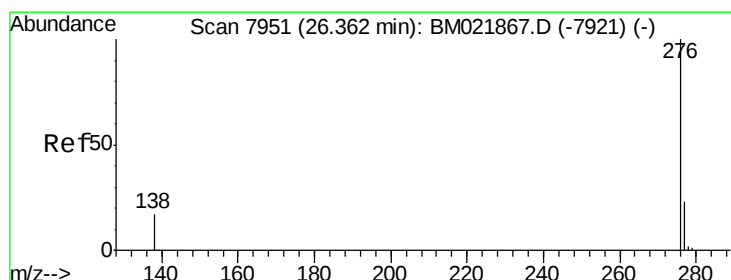
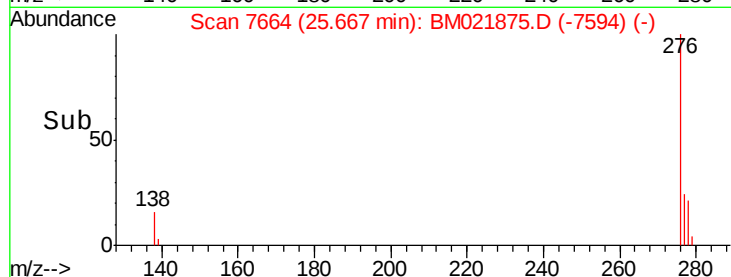
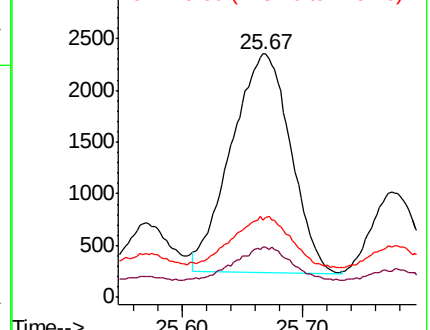
278 100

139 20.5 14.2 21.2

279 31.6 28.3 42.5



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



#26

Benzo(g,h,i)perylene

Concen: 0.807 ng/u1

RT: 26.35 min Scan# 7945

Delta R.T. -0.01 min

Lab File: BM021875.D

Acq: 07 Aug 2019 01:22

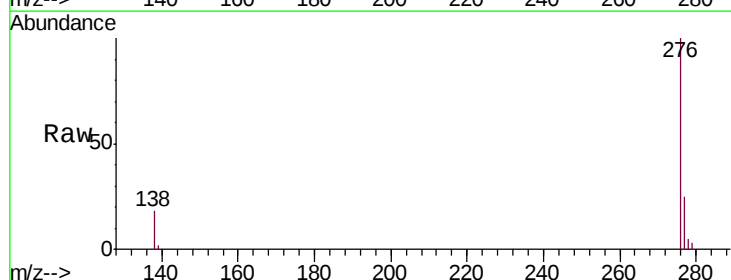
Tgt Ion:276 Resp: 23289

Ion Ratio Lower Upper

276 100

138 17.7 15.5 23.3

277 25.2 21.4 32.2



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

