

Data File : BM021934.D  
Acq On : 08 Aug 2019 15:39  
Operator : HP/JU  
Sample : K4029-18  
Misc :  
ALS Vial : 44 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BENR5

Quant Time: Aug 09 00:59:49 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 : Fri Aug 09 00:56:52 2019  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.62  | 152  | 826      | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.40 | 136  | 3468     | 0.40 | ng/ul | -0.02    |
| 6) Acenaphthene-d10       | 14.27 | 164  | 1910     | 0.40 | ng/ul | -0.01    |
| 10) Phenanthrene-d10      | 17.13 | 188  | 185810   | 0.40 | ng/ul | 0.08     |
| 16) Chrysene-d12          | 21.38 | 240  | 23       | 0.40 | ng/ul | 0.13     |
| 20) Perylene-d12          | 23.70 | 264  | 1703     | 0.40 | ng/ul | 0.23     |

|                             |       |     |     |      |       |       |
|-----------------------------|-------|-----|-----|------|-------|-------|
| System Monitoring Compounds |       |     |     |      |       |       |
| 4) 2-Methylnaphthalene-d10  | 12.01 | 152 | 981 | 0.17 | ng/ul | -0.02 |
| 14) Fluoranthene-d10        | 19.16 | 212 | 196 | 0.00 | ng/ul | 0.08  |

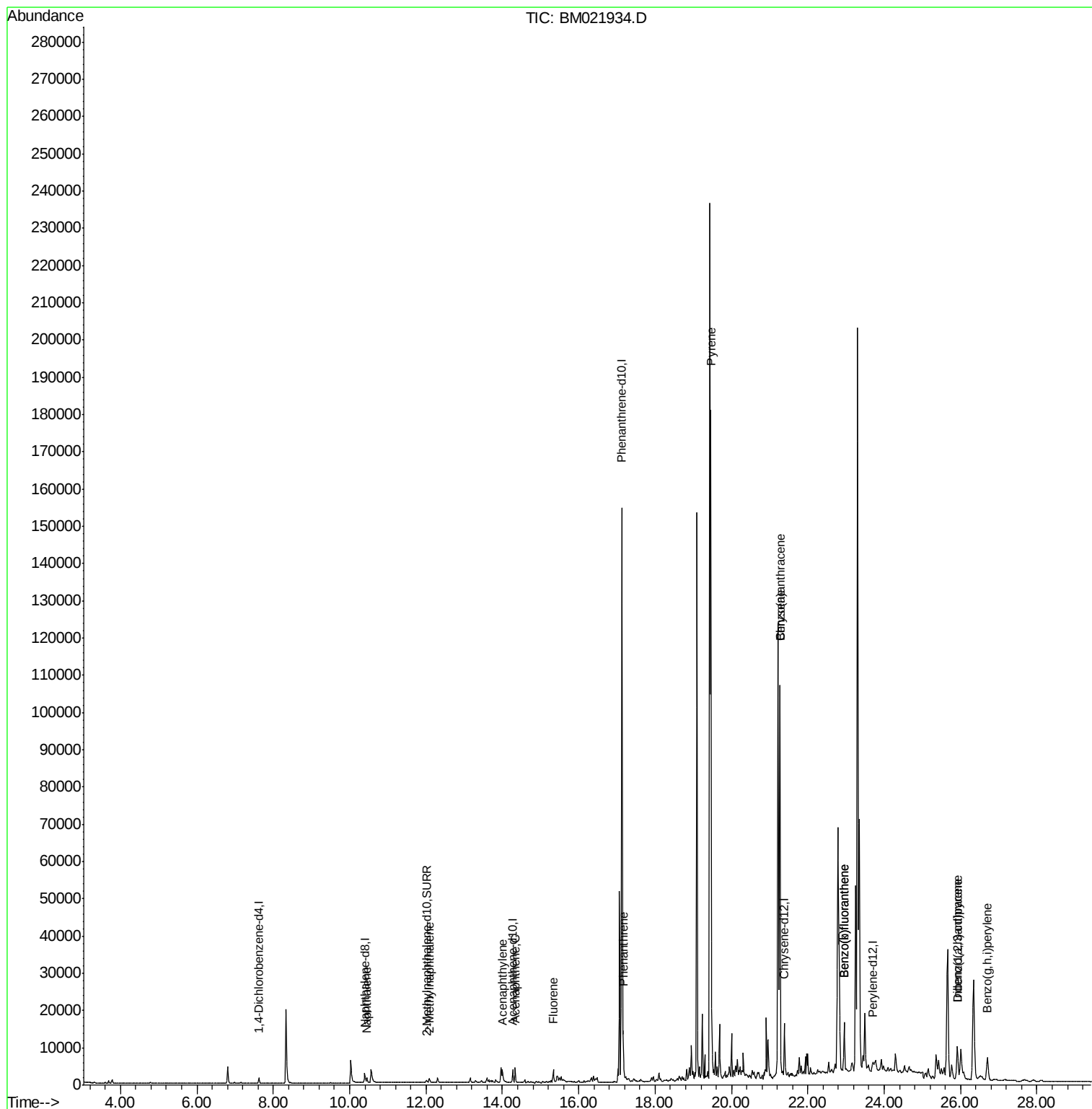
| Target Compounds           |       |     |        |          |        | Qvalue |
|----------------------------|-------|-----|--------|----------|--------|--------|
| 3) Naphthalene             | 10.45 | 128 | 1799   | 0.184    | ng/ul  | 97     |
| 5) 2-Methylnaphthalene     | 12.09 | 142 | 1020   | 0.156    | ng/ul  | 94     |
| 7) Acenaphthylene          | 14.00 | 152 | 3803   | 0.427    | ng/ul# | 84     |
| 8) Acenaphthene            | 14.34 | 153 | 2373   | 0.326    | ng/ul  | 97     |
| 9) Fluorene                | 15.33 | 166 | 2414   | 0.298    | ng/ul  | 97     |
| 12) Phenanthrene           | 17.16 | 178 | 12379  | 0.023    | ng/ul  | 97     |
| 17) Pyrene                 | 19.46 | 202 | 155300 | 1643.145 | ng/ul  | 99     |
| 18) Benzo(a)anthracene     | 21.27 | 228 | 102530 | 1246.271 | ng/ul  | 97     |
| 19) Chrysene               | 21.27 | 228 | 102309 | 966.959  | ng/ul  | 100    |
| 21) Benzo(b)fluoranthene   | 22.95 | 252 | 17287  | 3.010    | ng/ul  | 93     |
| 22) Benzo(k)fluoranthene   | 22.95 | 252 | 17168  | 2.642    | ng/ul  | 94     |
| 24) Indeno(1,2,3-cd)pyrene | 25.91 | 276 | 3514   | 0.504    | ng/ul# | 50     |
| 25) Dibenzo(a,h)anthracene | 25.92 | 278 | 13151  | 2.333    | ng/ul  | 94     |
| 26) Benzo(g,h,i)perylene   | 26.70 | 276 | 12674  | 2.019    | ng/ul  | 95     |

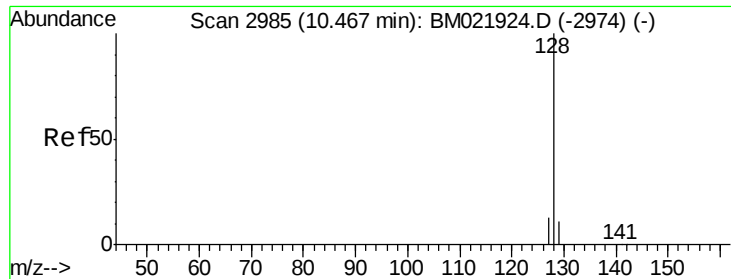
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Naphthalene

Concen: 0.184 ng/ul

RT: 10.45 min Scan# 2981

Delta R.T. -0.02 min

Lab File: BM021934.D

Acq: 08 Aug 2019 15:39

Instrument :

BNA\_M

ClientSampleId :

BENR5

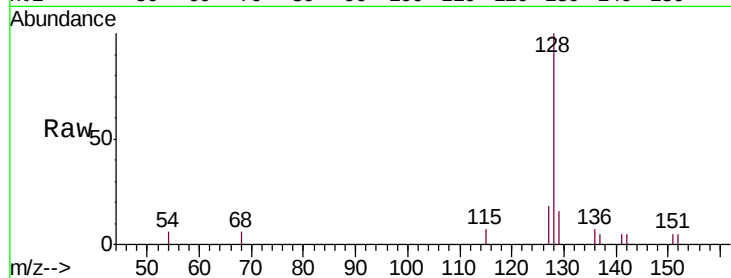
Tgt Ion:128 Resp: 1799

Ion Ratio Lower Upper

128 100

129 16.0 12.3 18.5

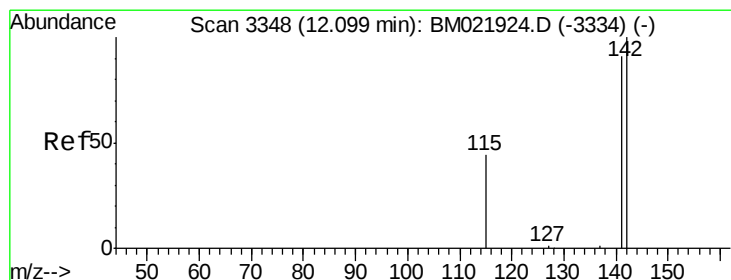
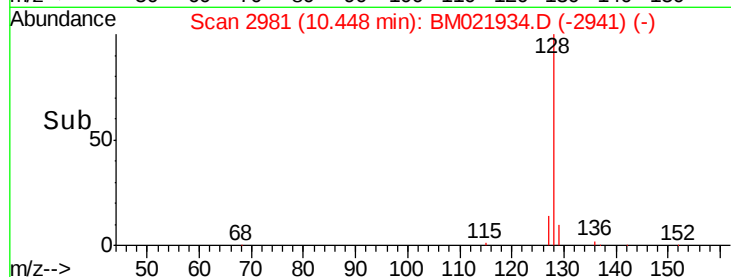
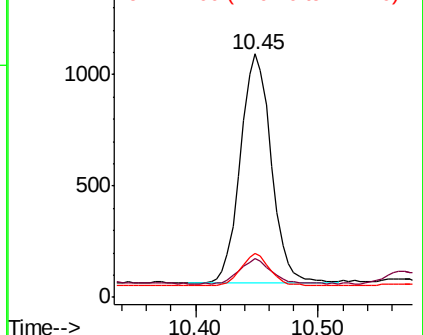
127 17.8 13.0 19.6



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: 0.156 ng/ul

RT: 12.09 min Scan# 3345

Delta R.T. -0.01 min

Lab File: BM021934.D

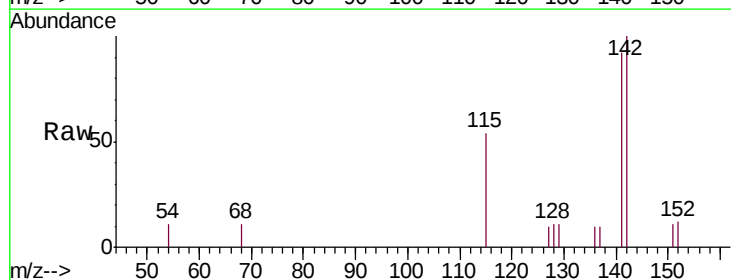
Acq: 08 Aug 2019 15:39

Tgt Ion:142 Resp: 1020

Ion Ratio Lower Upper

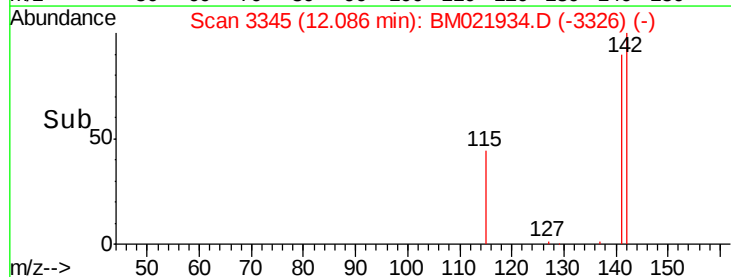
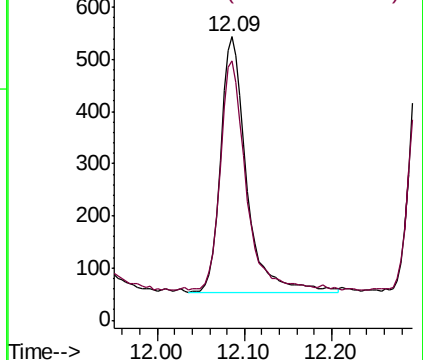
142 100

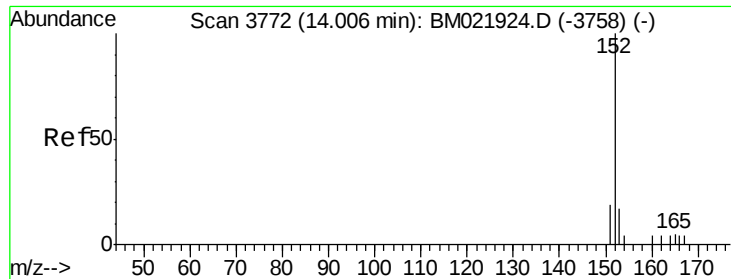
141 87.5 74.3 111.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.427 ng/ul

RT: 14.00 min Scan# 3770

Delta R.T. -0.01 min

Lab File: BM021934.D

Acq: 08 Aug 2019 15:39

Instrument :

BNA\_M

ClientSampleId :

BENR5

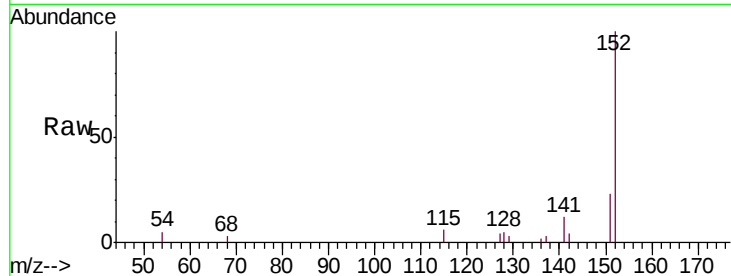
Tgt Ion:152 Resp: 3803

Ion Ratio Lower Upper

152 100

151 22.7 18.3 27.5

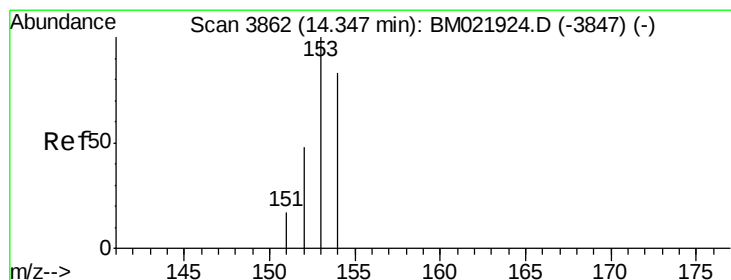
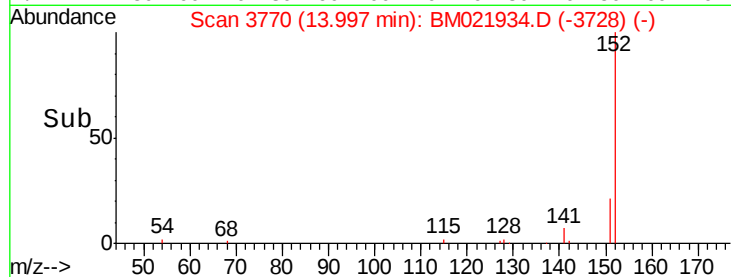
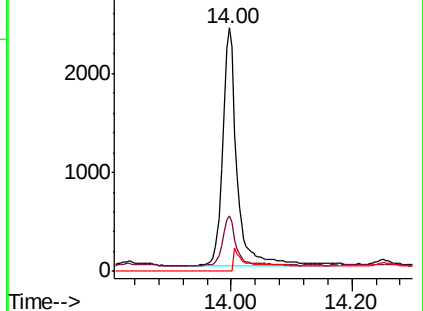
153 0.0 12.8 19.2#



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: 0.326 ng/ul

RT: 14.34 min Scan# 3859

Delta R.T. -0.01 min

Lab File: BM021934.D

Acq: 08 Aug 2019 15:39

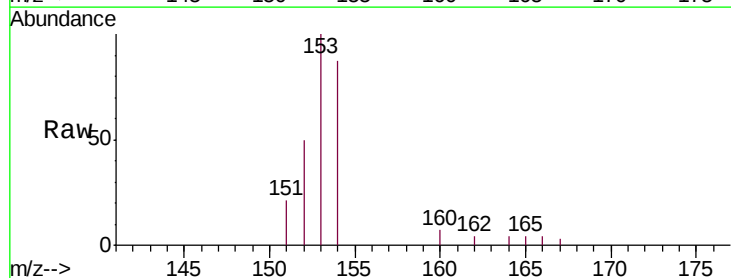
Tgt Ion:153 Resp: 2373

Ion Ratio Lower Upper

153 100

152 50.1 41.3 61.9

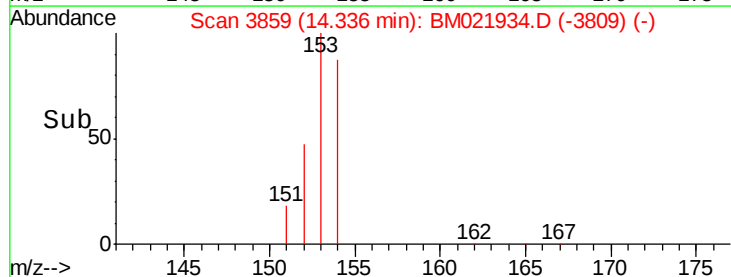
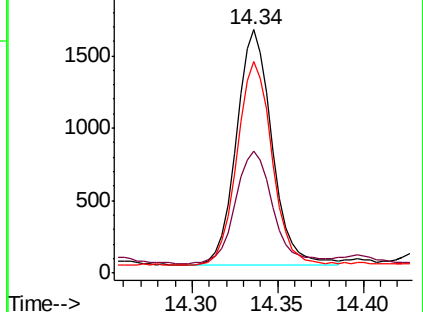
154 87.1 72.3 108.5

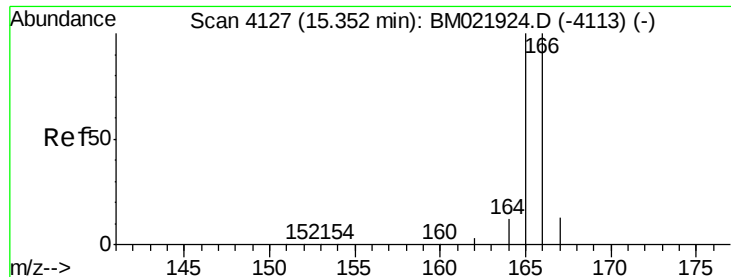


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

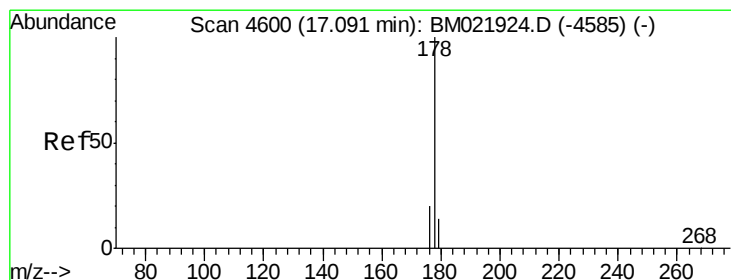
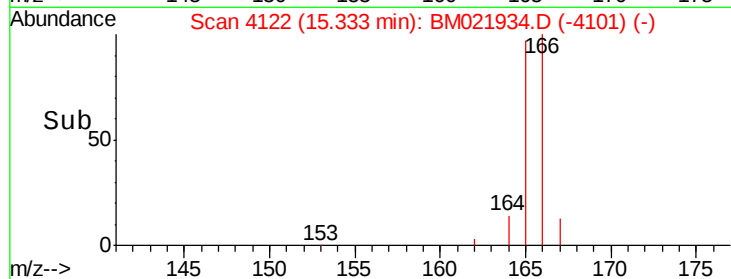
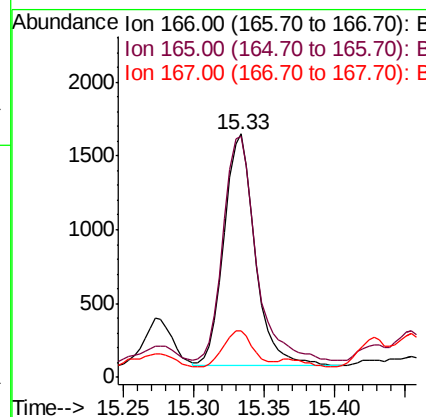
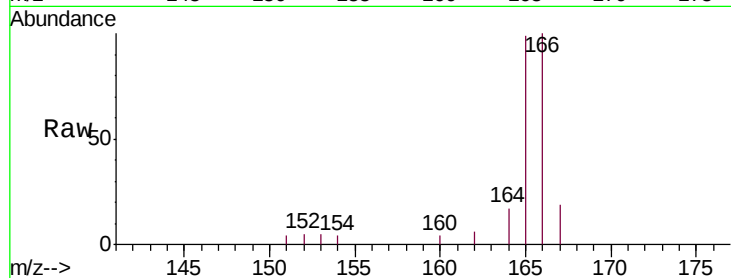




#9  
**Fluorene**  
 Concen: 0.298 ng/ul  
 RT: 15.33 min Scan# 4122  
 Delta R.T. -0.02 min  
 Lab File: BM021934.D  
 Acq: 08 Aug 2019 15:39

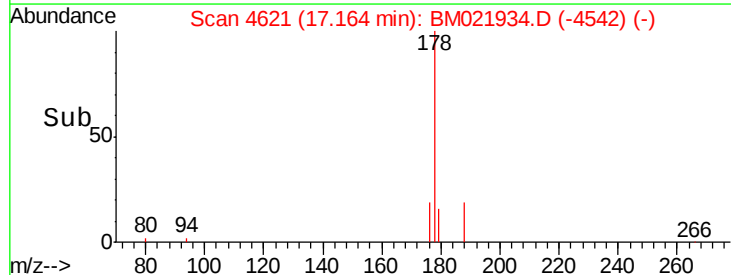
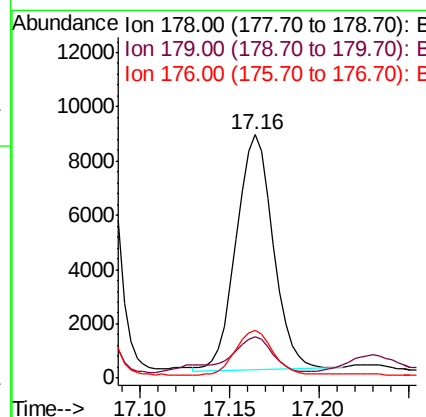
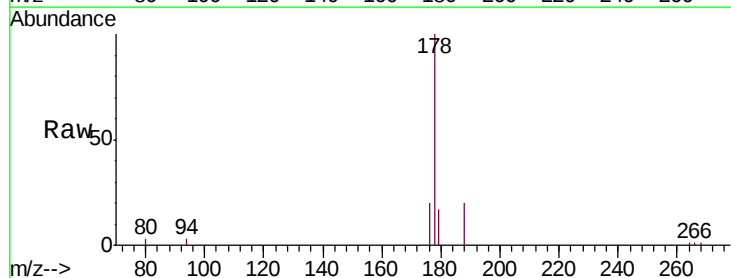
Instrument :  
 BNA\_M  
 ClientSampleId :  
 BENR5

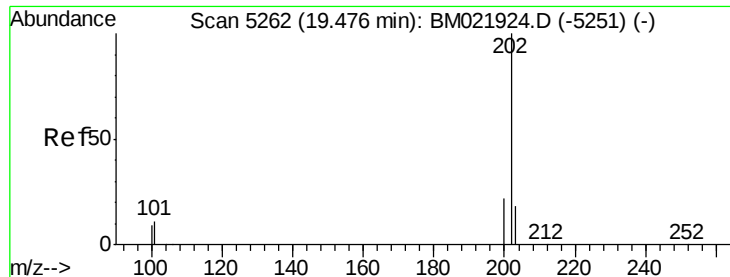
Tgt Ion:166 Resp: 2414  
 Ion Ratio Lower Upper  
 166 100  
 165 98.8 81.4 122.0  
 167 19.2 13.7 20.5



#12  
**Phenanthrene**  
 Concen: 0.023 ng/ul  
 RT: 17.16 min Scan# 4621  
 Delta R.T. 0.07 min  
 Lab File: BM021934.D  
 Acq: 08 Aug 2019 15:39

Tgt Ion:178 Resp: 12379  
 Ion Ratio Lower Upper  
 178 100  
 179 16.9 14.2 21.2  
 176 19.5 16.8 25.2

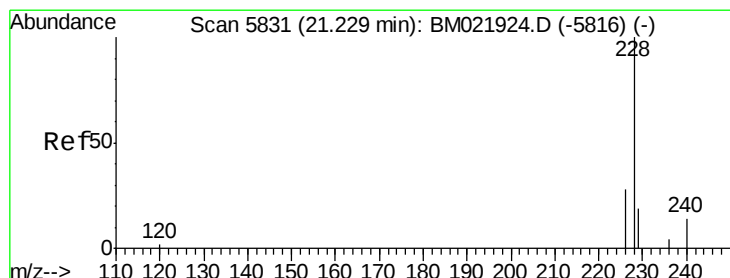
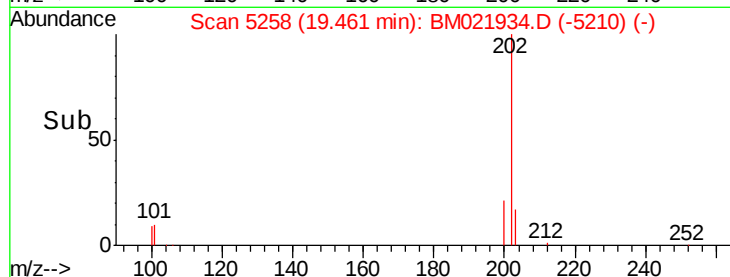
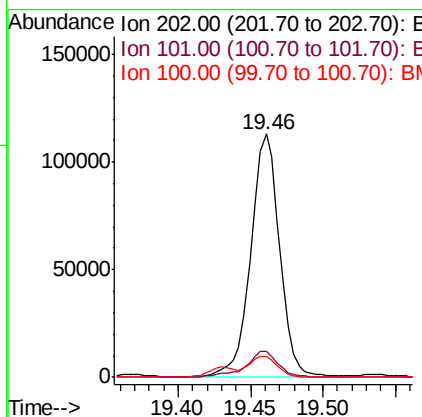
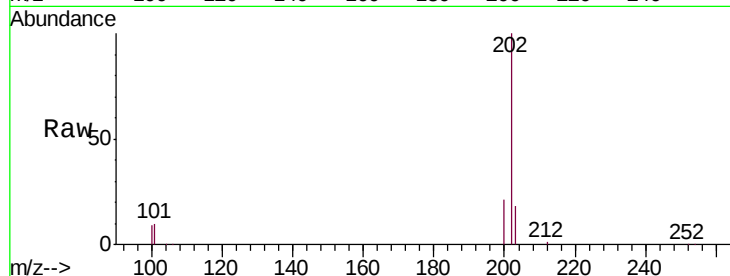




#17  
 Pyrene  
 Concen: 1643.145 ng/ul  
 RT: 19.46 min Scan# 5258  
 Delta R.T. -0.02 min  
 Lab File: BM021934.D  
 Acq: 08 Aug 2019 15:39

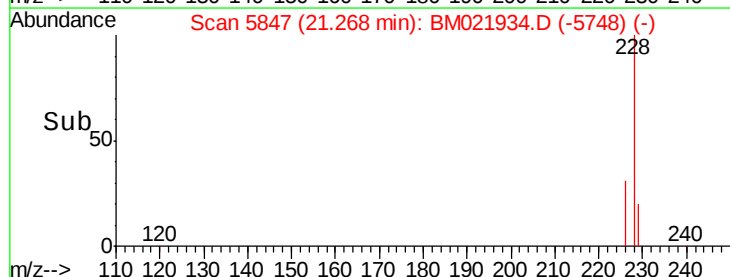
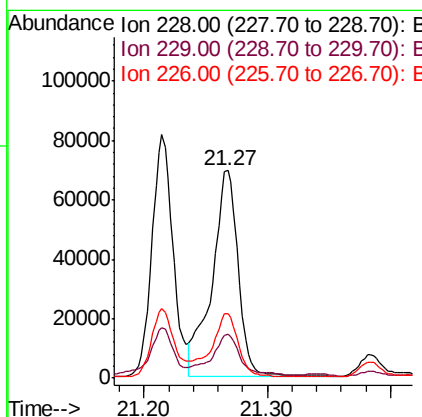
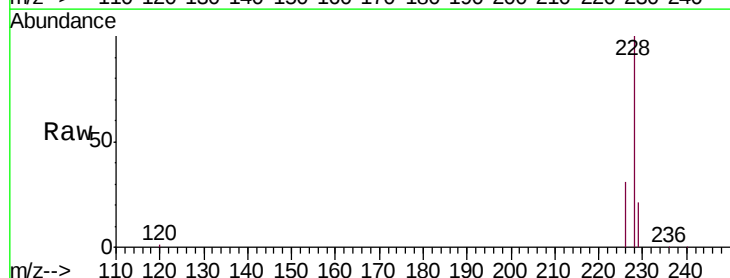
Instrument :  
 BNA\_M  
 ClientSampleId :  
 BENR5

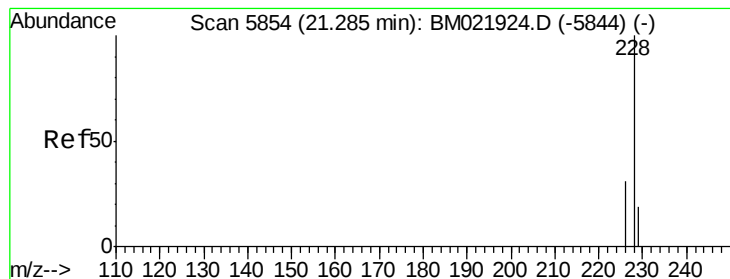
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.5  | 8.3   | 12.5  |
| 100     | 8.7   | 7.2   | 10.8  |



#18  
 Benzo(a)anthracene  
 Concen: 1246.271 ng/ul  
 RT: 21.27 min Scan# 5847  
 Delta R.T. 0.04 min  
 Lab File: BM021934.D  
 Acq: 08 Aug 2019 15:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.3  | 17.2  | 25.8  |
| 226     | 31.1  | 22.6  | 34.0  |





#19

Chrysene

Concen: 966.959 ng/ul

RT: 21.27 min Scan# 5847

Delta R.T. -0.02 min

Lab File: BM021934.D

Acq: 08 Aug 2019 15:39

Instrument :

BNA\_M

ClientSampleId :

BENR5

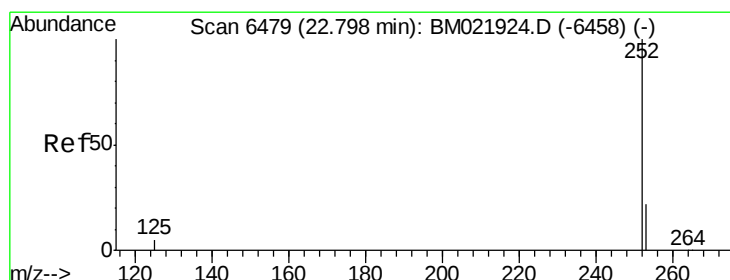
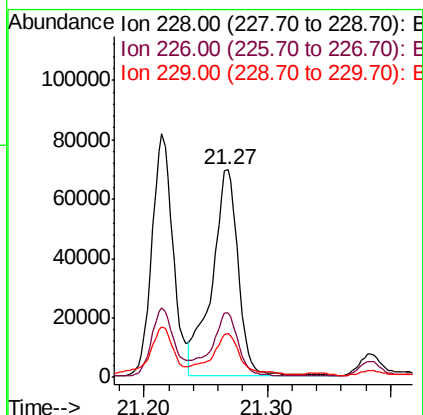
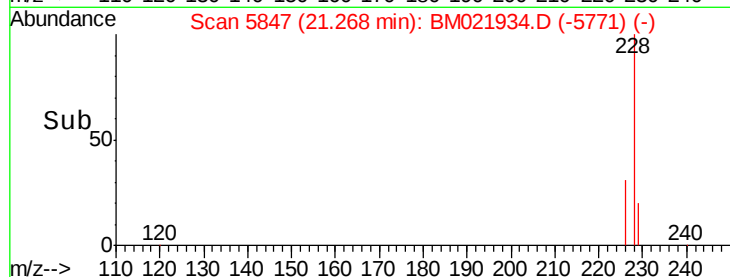
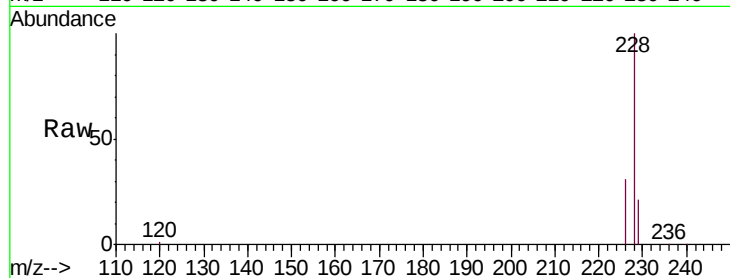
Tgt Ion:228 Resp: 102309

Ion Ratio Lower Upper

228 100

226 31.1 24.9 37.3

229 21.3 16.6 25.0



#21

Benzo(b)fluoranthene

Concen: 3.010 ng/ul

RT: 22.95 min Scan# 6542

Delta R.T. 0.15 min

Lab File: BM021934.D

Acq: 08 Aug 2019 15:39

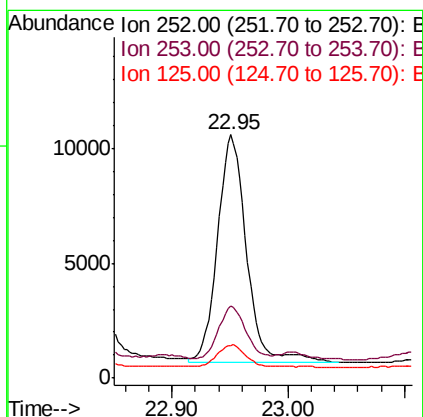
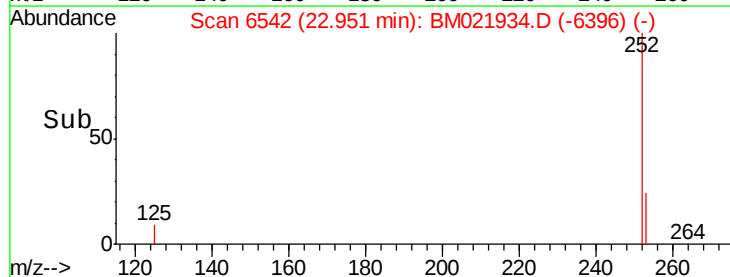
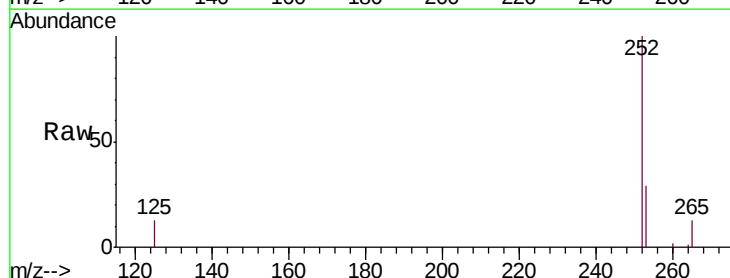
Tgt Ion:252 Resp: 17287

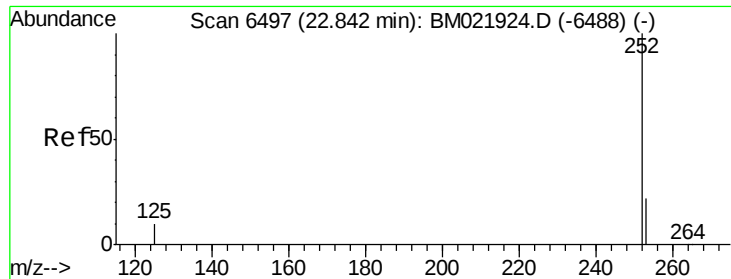
Ion Ratio Lower Upper

252 100

253 29.4 0.0 67.4

125 13.4 0.0 31.0





#22

Benzo(k)fluoranthene

Concen: 2.642 ng/u1

RT: 22.95 min Scan# 6542

Delta R.T. 0.11 min

Lab File: BM021934.D

Acq: 08 Aug 2019 15:39

Instrument :

BNA\_M

ClientSampleId :

BENR5

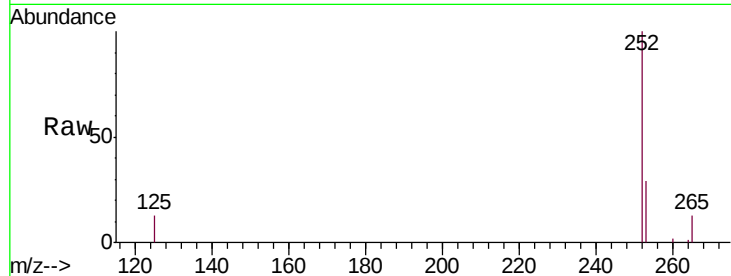
Tgt Ion:252 Resp: 17168

Ion Ratio Lower Upper

252 100

253 29.4 27.0 40.4

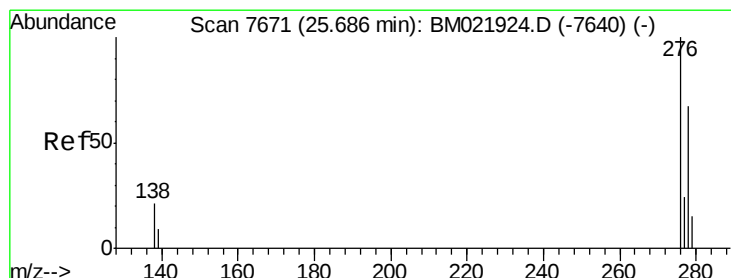
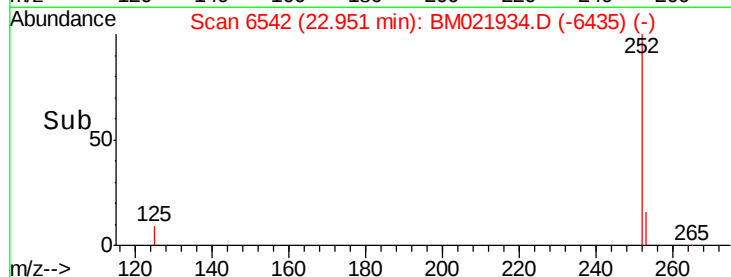
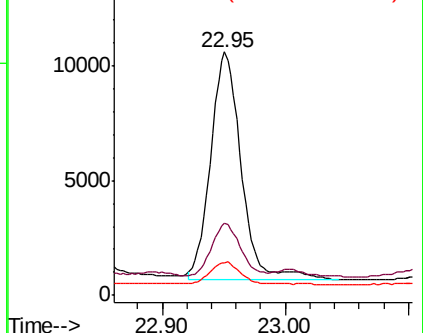
125 13.4 12.2 18.2



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.504 ng/u1

RT: 25.91 min Scan# 7765

Delta R.T. 0.23 min

Lab File: BM021934.D

Acq: 08 Aug 2019 15:39

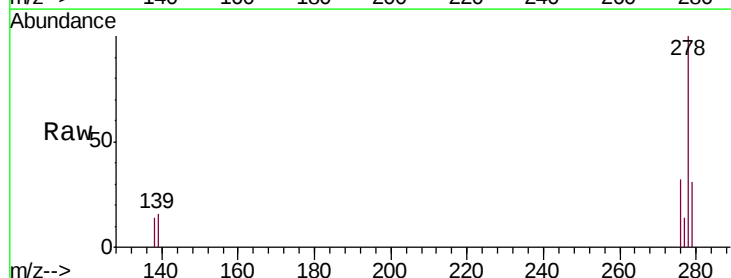
Tgt Ion:276 Resp: 3514

Ion Ratio Lower Upper

276 100

138 41.2 15.1 22.7#

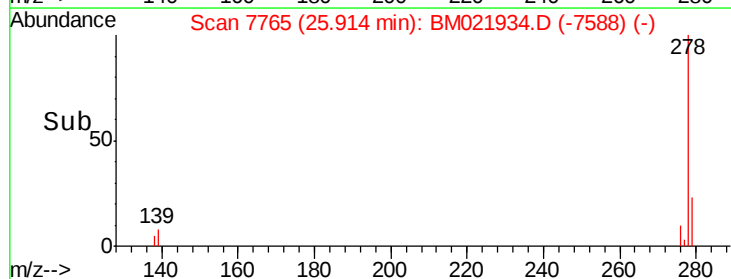
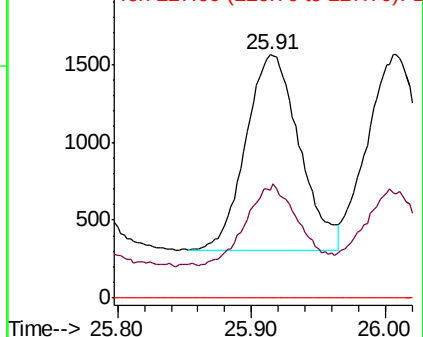
227 0.0 0.0 0.0

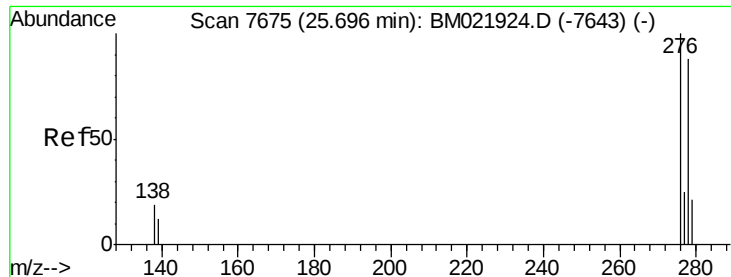


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E





#25

Dibenzo(a,h)anthracene

Concen: 2.333 ng/ul

RT: 25.92 min Scan# 7766

Delta R.T. 0.22 min

Lab File: BM021934.D

Acq: 08 Aug 2019 15:39

Instrument :

BNA\_M

ClientSampleId :

BENR5

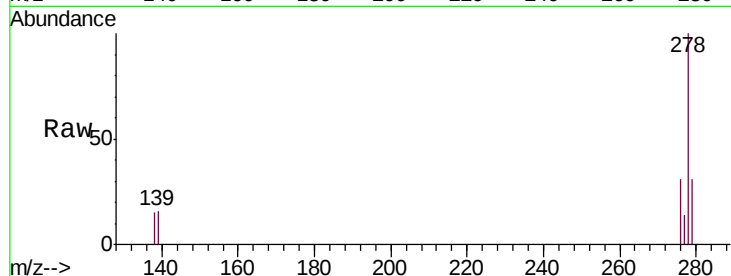
Tgt Ion:278 Resp: 13151

Ion Ratio Lower Upper

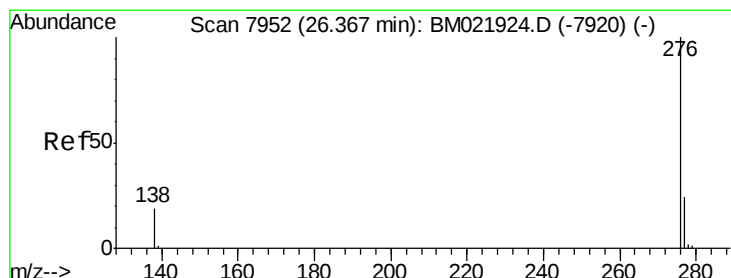
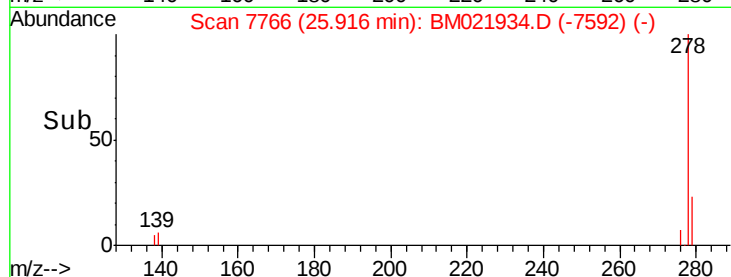
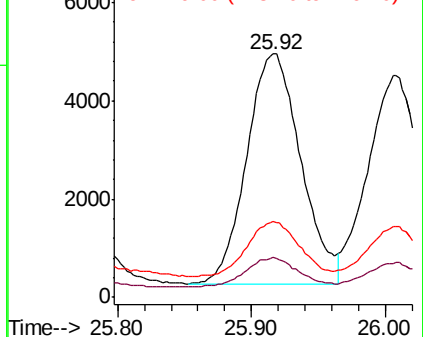
278 100

139 16.3 14.2 21.2

279 31.2 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: 2.019 ng/ul

RT: 26.70 min Scan# 8089

Delta R.T. 0.33 min

Lab File: BM021934.D

Acq: 08 Aug 2019 15:39

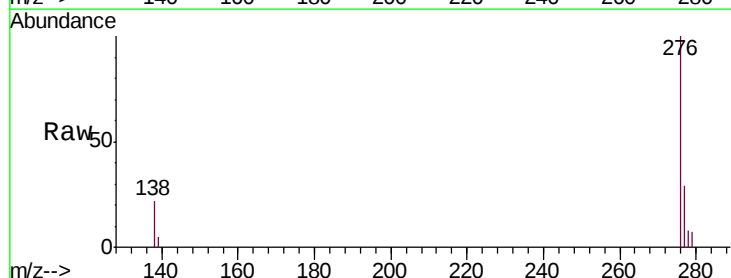
Tgt Ion:276 Resp: 12674

Ion Ratio Lower Upper

276 100

138 22.2 15.5 23.3

277 29.0 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

