

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM030620\  
 Data File : BM025384.D  
 Acq On : 08 Mar 2020 13:47  
 Operator : CG/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 70 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Mar 09 01:15:24 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM030320.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 04 08:02:03 2020  
 Response via : Initial Calibration

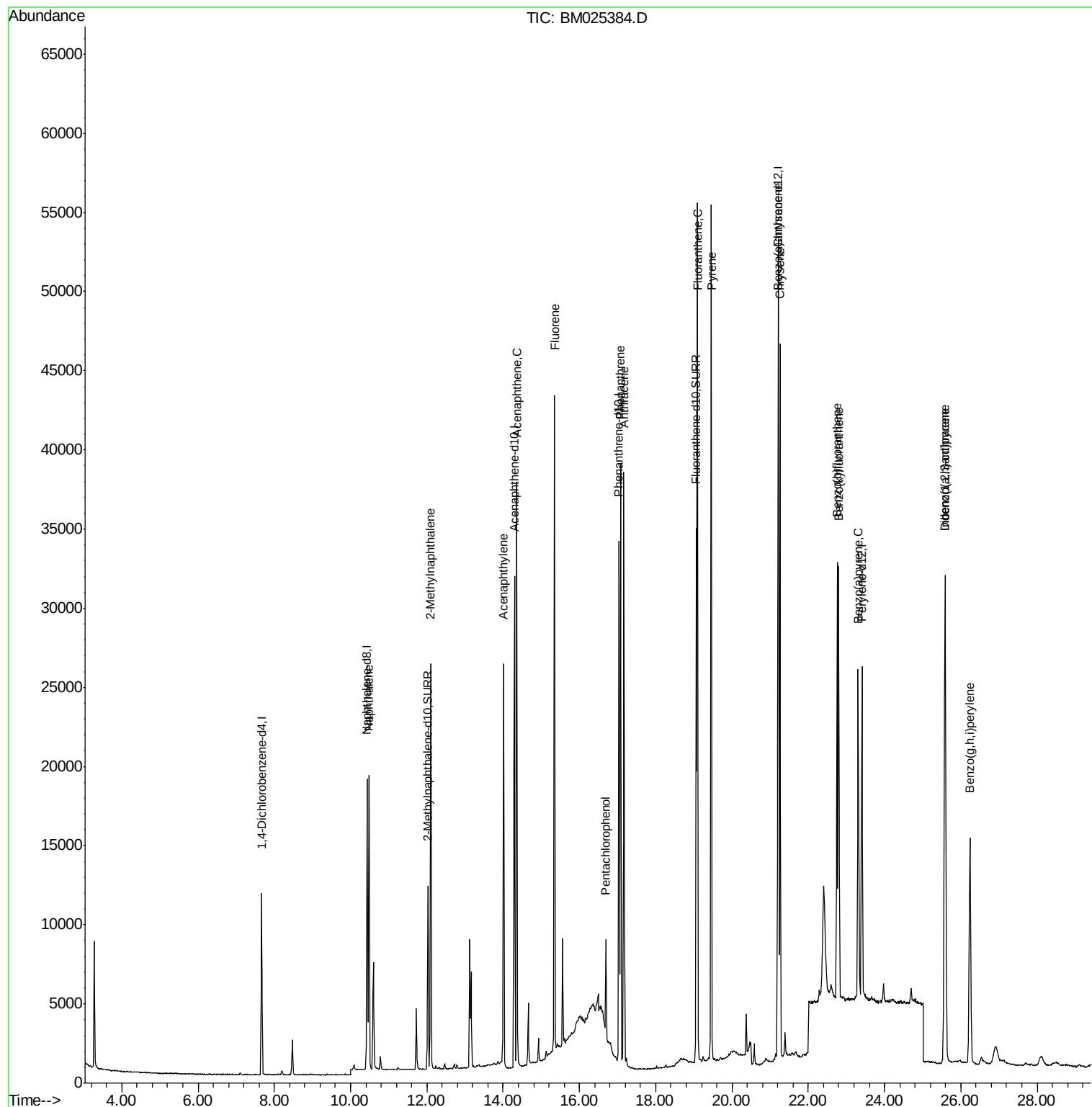
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.67  | 152  | 5538     | 0.40  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.43 | 136  | 24686    | 0.40  | ng/ul  | -0.01    |
| 6) Acenaphthene-d10         | 14.29 | 164  | 17292    | 0.40  | ng/ul  | -0.01    |
| 10) Phenanthrene-d10        | 17.04 | 188  | 38015    | 0.40  | ng/ul  | -0.01    |
| 16) Chrysene-d12            | 21.22 | 240  | 27918    | 0.40  | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.41 | 264  | 25702    | 0.40  | ng/ul  | -0.01    |
| System Monitoring Compounds |       |      |          |       |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.03 | 152  | 15519    | 0.34  | ng/ul  | -0.01    |
| 14) Fluoranthene-d10        | 19.06 | 212  | 36994    | 0.30  | ng/ul  | -0.01    |
| Target Compounds            |       |      |          |       | Ovalue |          |
| 3) Naphthalene              | 10.48 | 128  | 24704    | 0.333 | ng/ul# | 82       |
| 5) 2-Methylnaphthalene      | 12.10 | 142  | 17942    | 0.332 | ng/ul  | 100      |
| 7) Acenaphthylene           | 14.01 | 152  | 26128    | 0.323 | ng/ul  | 94       |
| 8) Acenaphthene             | 14.35 | 153  | 20525    | 0.327 | ng/ul  | 98       |
| 9) Fluorene                 | 15.34 | 166  | 25769    | 0.327 | ng/ul  | 96       |
| 11) Pentachlorophenol       | 16.69 | 266  | 4077     | 0.410 | ng/ul  | 97       |
| 12) Phenanthrene            | 17.08 | 178  | 38620    | 0.315 | ng/ul  | 96       |
| 13) Anthracene              | 17.17 | 178  | 39441    | 0.363 | ng/ul  | 96       |
| 15) Fluoranthene            | 19.09 | 202  | 45105    | 0.294 | ng/ul  | 98       |
| 17) Pyrene                  | 19.46 | 202  | 44696    | 0.422 | ng/ul  | 97       |
| 18) Benzo(a)anthracene      | 21.20 | 228  | 37750    | 0.368 | ng/ul  | 99       |
| 19) Chrysene                | 21.26 | 228  | 36972    | 0.328 | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 22.76 | 252  | 33519    | 0.326 | ng/ul  | 95       |
| 22) Benzo(k)fluoranthene    | 22.80 | 252  | 32770    | 0.304 | ng/ul  | 99       |
| 23) Benzo(a)pyrene          | 23.31 | 252  | 29743    | 0.345 | ng/ul# | 95       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.58 | 276  | 35728    | 0.332 | ng/ul# | 100      |
| 25) Dibenzo(a,h)anthracene  | 25.59 | 278  | 29655    | 0.333 | ng/ul# | 96       |
| 26) Benzo(g,h,i)perylene    | 26.24 | 276  | 29855    | 0.327 | ng/ul# | 93       |

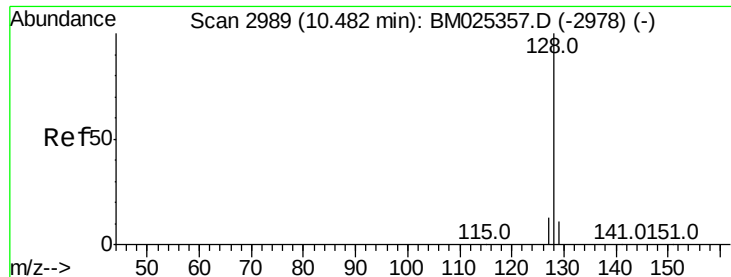
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_M  
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QLast Update : Wed Mar 04 08:02:03 2020  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.333 ng/ul

RT: 10.48 min Scan# 2988

Delta R.T. -0.01 min

Lab File: BM025384.D

Acq: 08 Mar 2020 13:47

Instrument :

BNA\_M

ClientSampleId :

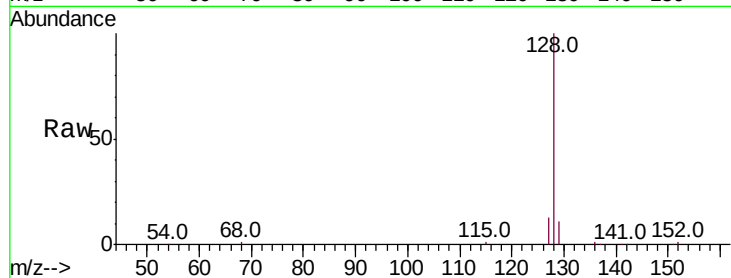
Tot Ion:128 Resp: 24704

Ion Ratio Lower Upper

128 100

129 11.4 17.0 25.6#

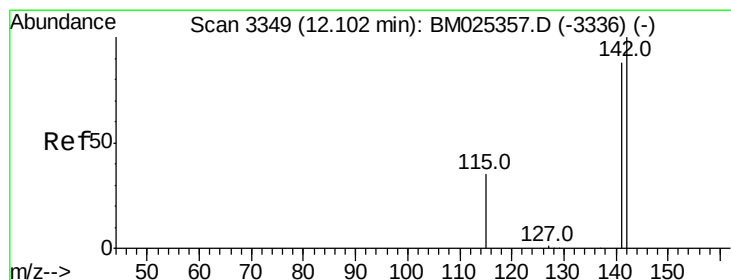
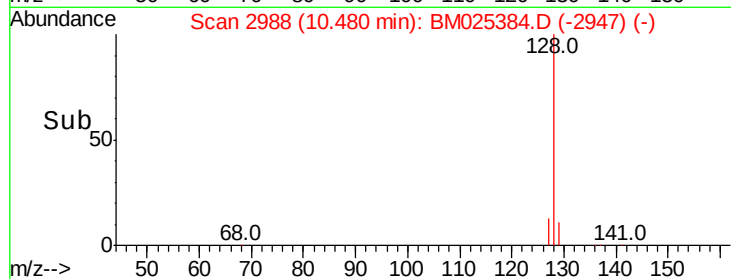
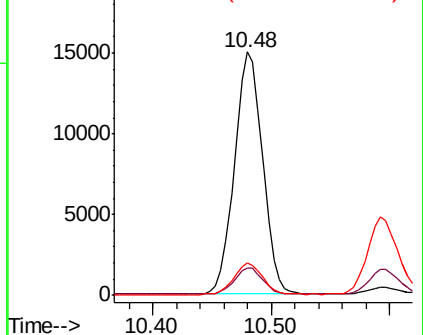
127 13.2 15.7 23.5#



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: 0.332 ng/ul

RT: 12.10 min Scan# 3348

Delta R.T. -0.01 min

Lab File: BM025384.D

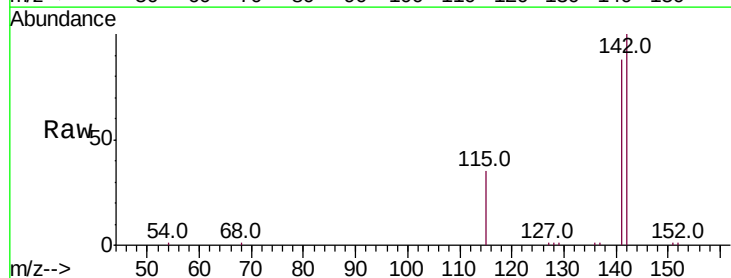
Acq: 08 Mar 2020 13:47

Tgt Ion:142 Resp: 17942

Ion Ratio Lower Upper

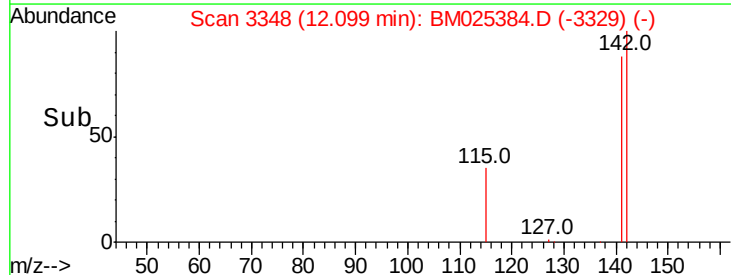
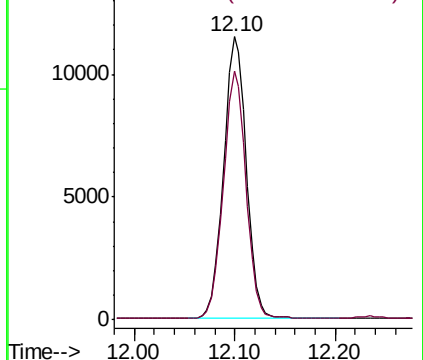
142 100

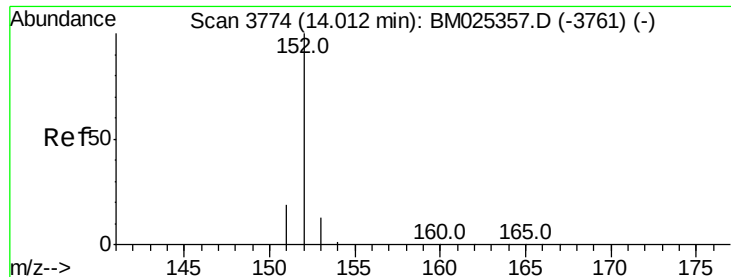
141 87.6 69.8 104.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.323 ng/ul

RT: 14.01 min Scan# 3773

Delta R.T. -0.01 min

Lab File: BM025384.D

Acq: 08 Mar 2020 13:47

Instrument :

BNA\_M

ClientSampleId :

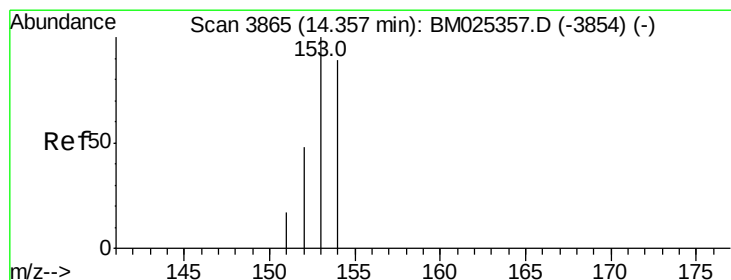
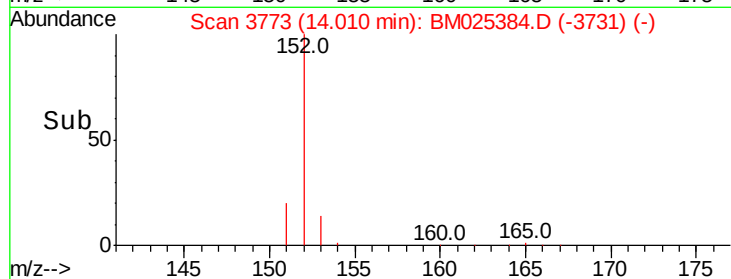
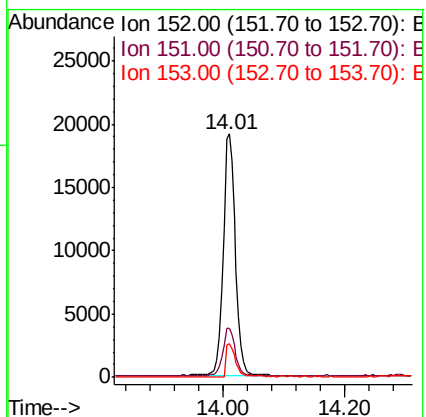
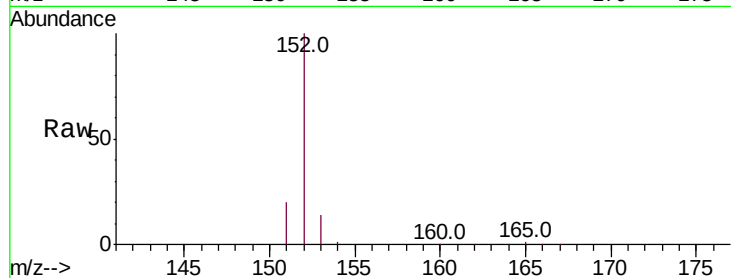
Tot Ion:152 Resp: 26128

Ion Ratio Lower Upper

152 100

151 20.1 17.8 26.8

153 13.7 13.3 19.9



#8

Acenaphthene

Concen: 0.327 ng/ul

RT: 14.35 min Scan# 3864

Delta R.T. -0.01 min

Lab File: BM025384.D

Acq: 08 Mar 2020 13:47

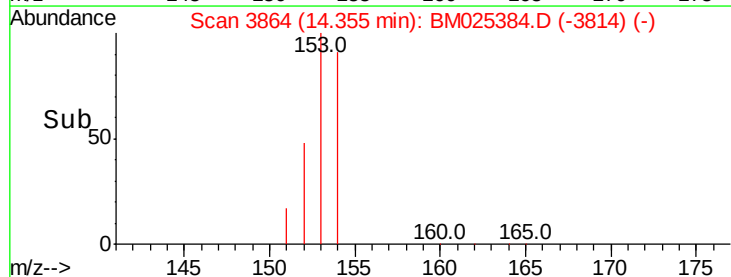
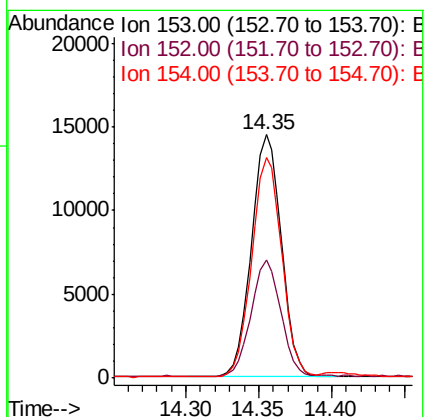
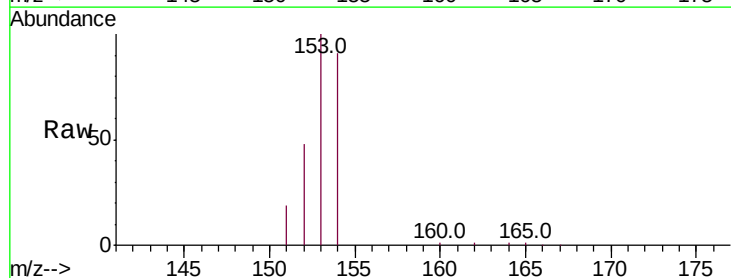
Tgt Ion:153 Resp: 20525

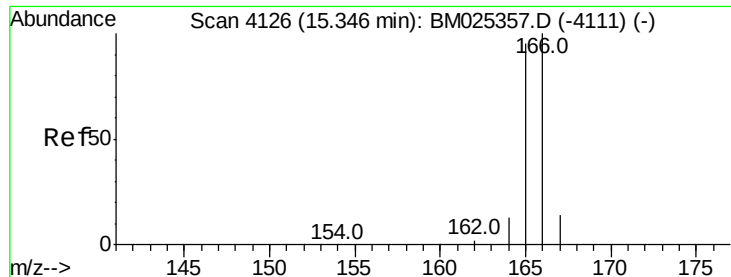
Ion Ratio Lower Upper

153 100

152 48.5 40.0 60.0

154 90.6 71.0 106.6





#9

Fluorene

Concen: 0.327 ng/ul

RT: 15.34 min Scan# 4125

Delta R.T. -0.01 min

Lab File: BM025384.D

Acq: 08 Mar 2020 13:47

Instrument :

BNA\_M

ClientSampleId :

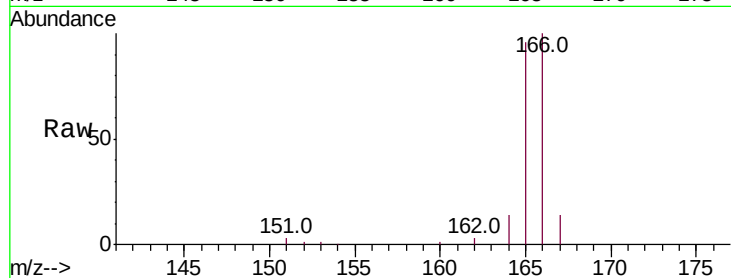
Tot Ion:166 Resp: 25769

Ion Ratio Lower Upper

166 100

165 96.3 80.0 120.0

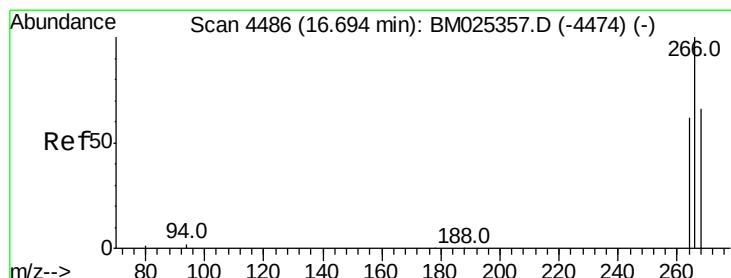
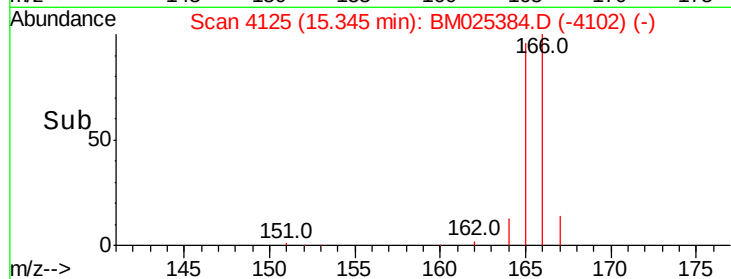
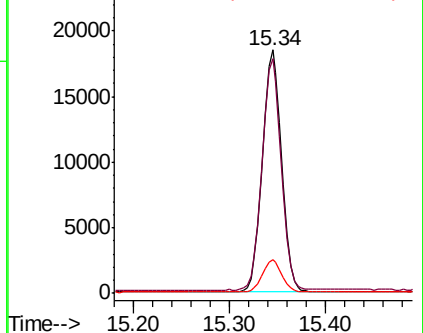
167 14.1 13.7 20.5



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



#11

Pentachlorophenol

Concen: 0.410 ng/ul

RT: 16.69 min Scan# 4485

Delta R.T. -0.01 min

Lab File: BM025384.D

Acq: 08 Mar 2020 13:47

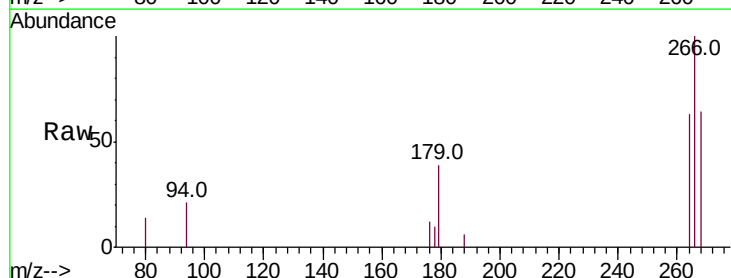
Tgt Ion:266 Resp: 4077

Ion Ratio Lower Upper

266 100

264 61.7 49.8 74.6

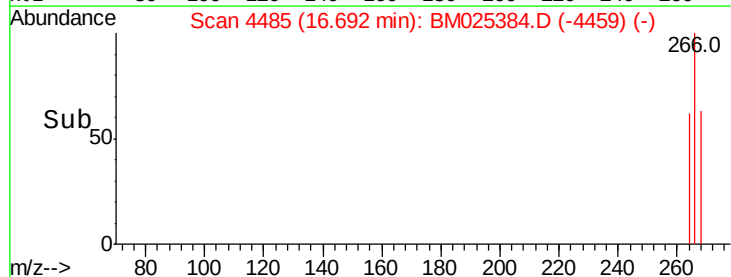
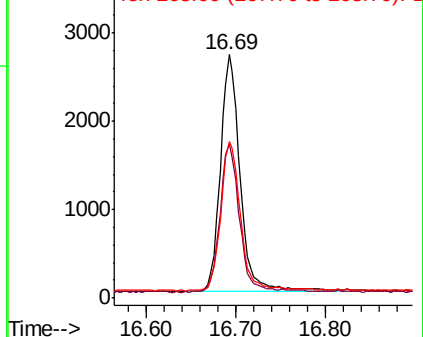
268 64.7 49.0 73.4

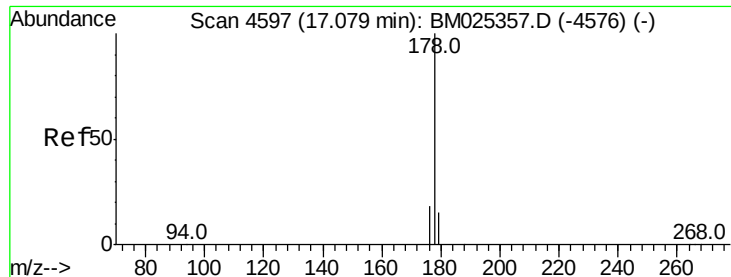


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#12

Phenanthrene

Concen: 0.315 ng/ul

RT: 17.08 min Scan# 4596

Delta R.T. -0.01 min

Lab File: BM025384.D

Acq: 08 Mar 2020 13:47

Instrument :

BNA\_M

ClientSampleId :

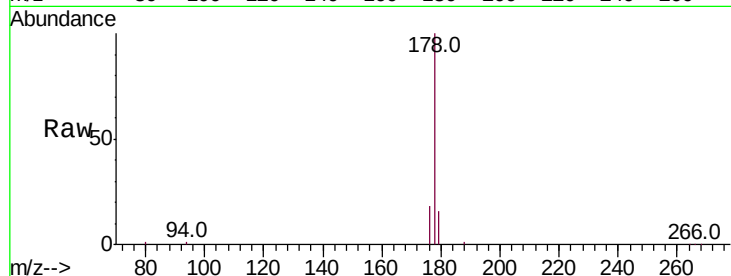
Tot Ion:178 Resp: 38620

Ion Ratio Lower Upper

178 100

179 16.1 14.0 21.0

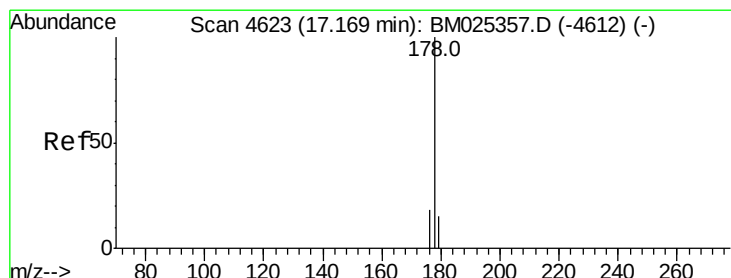
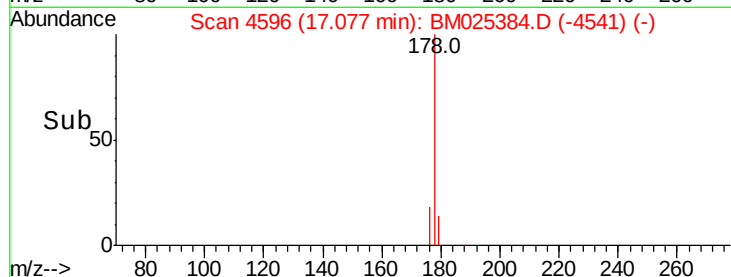
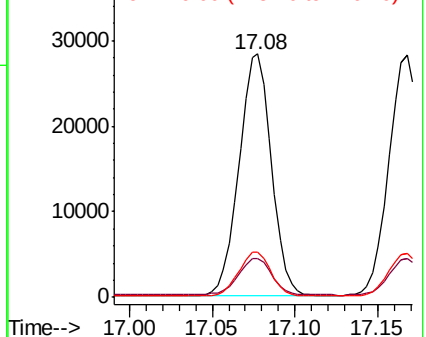
176 18.4 16.6 24.8



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#13

Anthracene

Concen: 0.363 ng/ul

RT: 17.17 min Scan# 4622

Delta R.T. -0.01 min

Lab File: BM025384.D

Acq: 08 Mar 2020 13:47

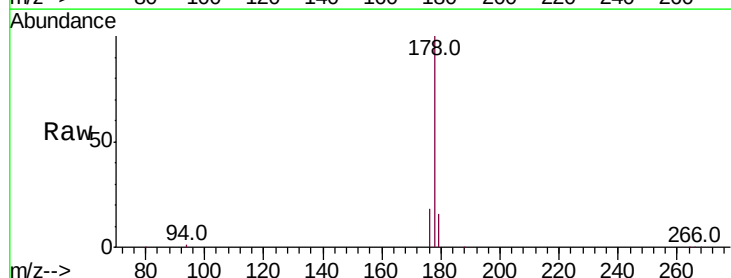
Tgt Ion:178 Resp: 39441

Ion Ratio Lower Upper

178 100

179 16.3 14.1 21.1

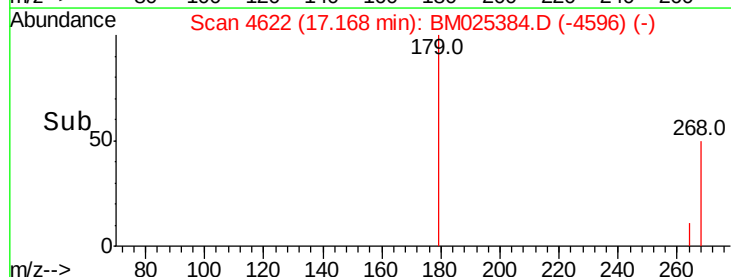
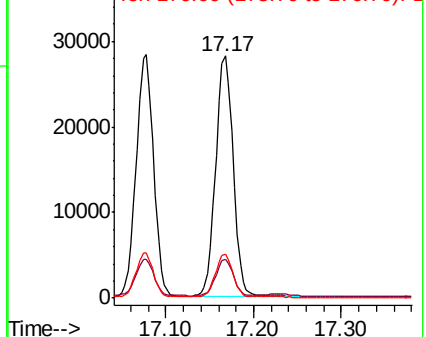
176 18.0 16.2 24.4

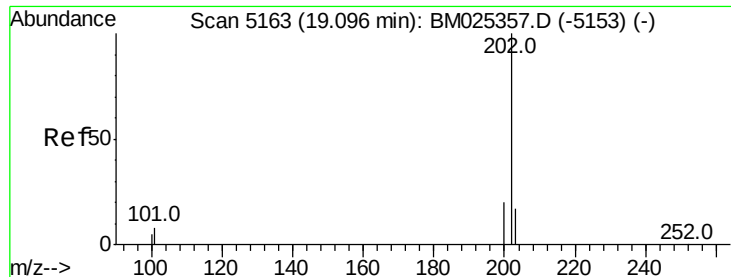


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

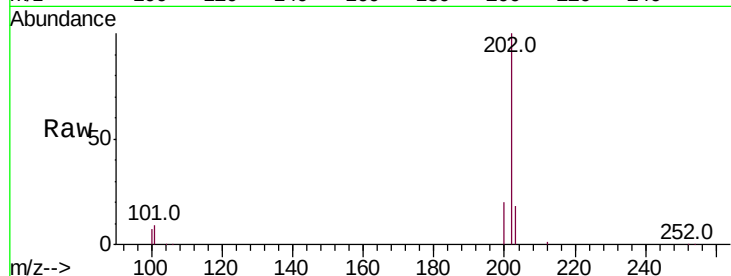




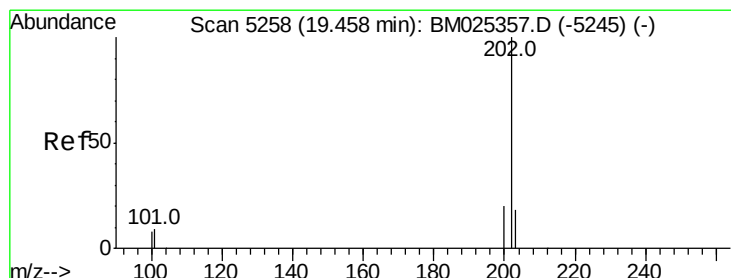
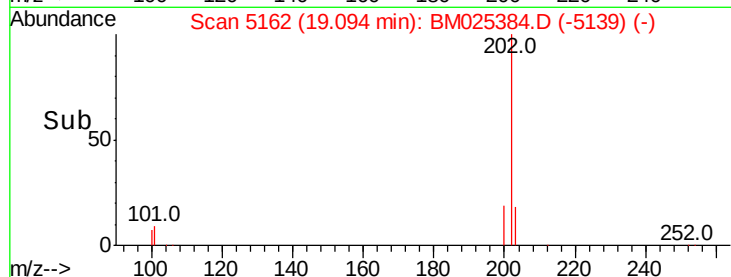
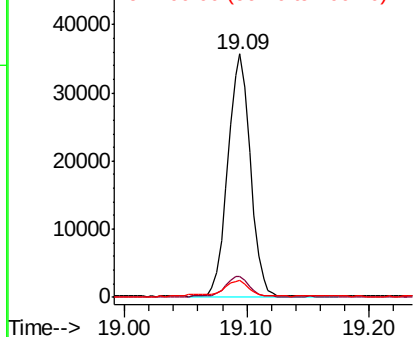
#15  
Fluoranthene  
Concen: 0.294 ng/ul  
RT: 19.09 min Scan# 5162  
Delta R.T. -0.01 min  
Lab File: BM025384.D  
Acq: 08 Mar 2020 13:47

Instrument :  
BNA\_M  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.8   | 0.0   | 29.4  |
| 100     | 7.0   | 0.0   | 28.0  |

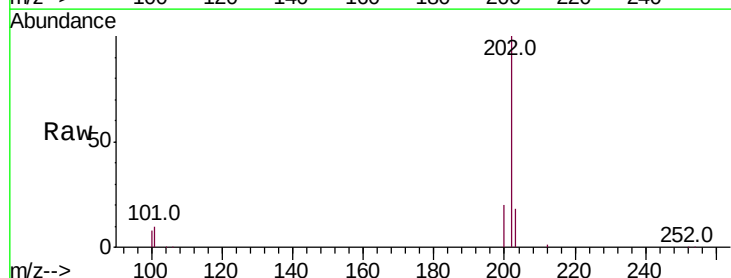


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B

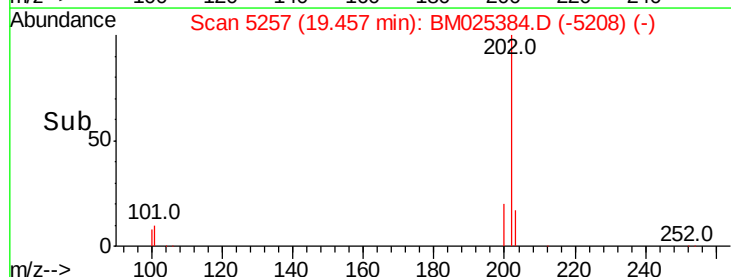
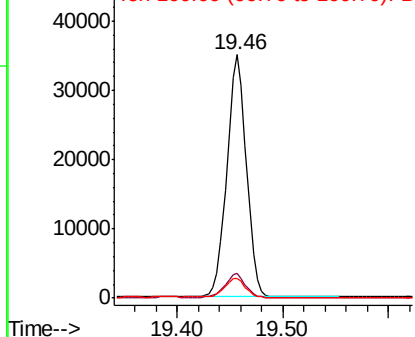


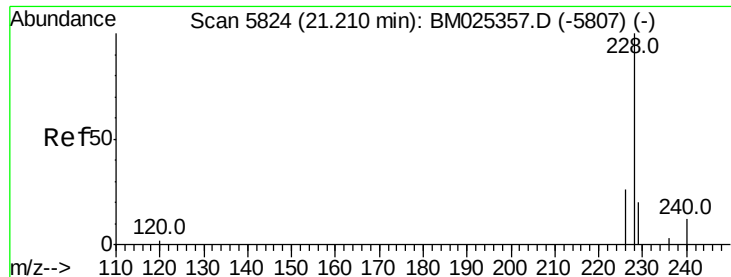
#17  
Pyrene  
Concen: 0.422 ng/ul  
RT: 19.46 min Scan# 5257  
Delta R.T. -0.01 min  
Lab File: BM025384.D  
Acq: 08 Mar 2020 13:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.9   | 8.7   | 13.1  |
| 100     | 8.1   | 7.3   | 10.9  |



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: 0.368 ng/ul

RT: 21.20 min Scan# 5821

Delta R.T. -0.01 min

Lab File: BM025384.D

Acq: 08 Mar 2020 13:47

Instrument :

BNA\_M

ClientSampleId :

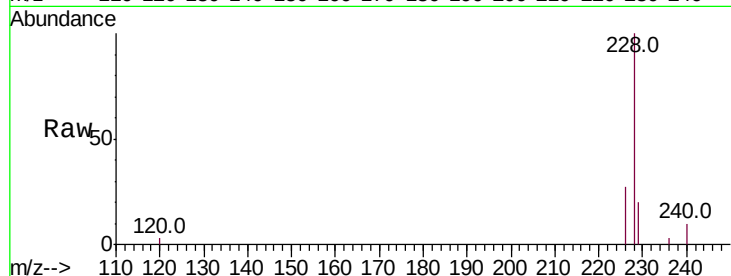
Tot Ion:228 Resp: 37750

Ion Ratio Lower Upper

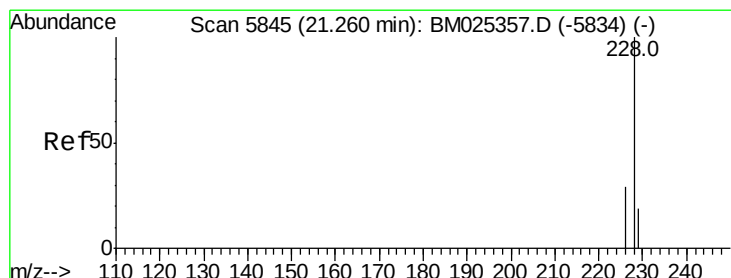
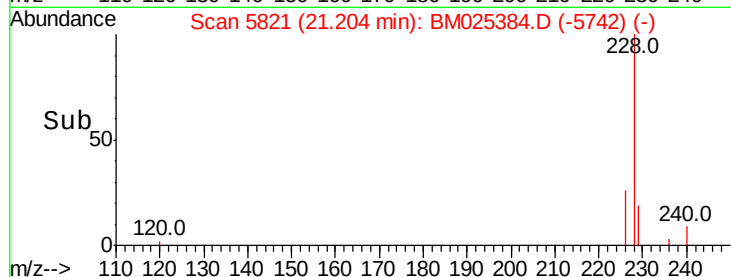
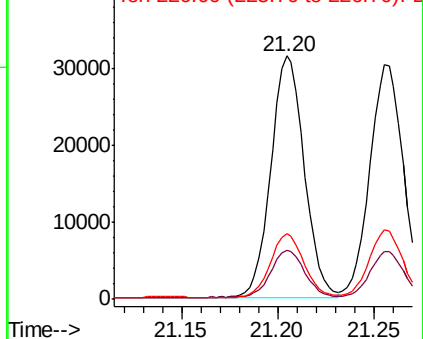
228 100

229 20.0 16.6 25.0

226 26.7 21.9 32.9



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 229.00 (228.70 to 229.70): E  
Ion 226.00 (225.70 to 226.70): E



#19

Chrysene

Concen: 0.328 ng/ul

RT: 21.26 min Scan# 5842

Delta R.T. -0.01 min

Lab File: BM025384.D

Acq: 08 Mar 2020 13:47

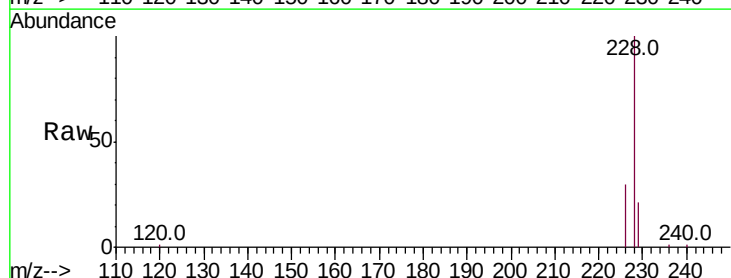
Tgt Ion:228 Resp: 36972

Ion Ratio Lower Upper

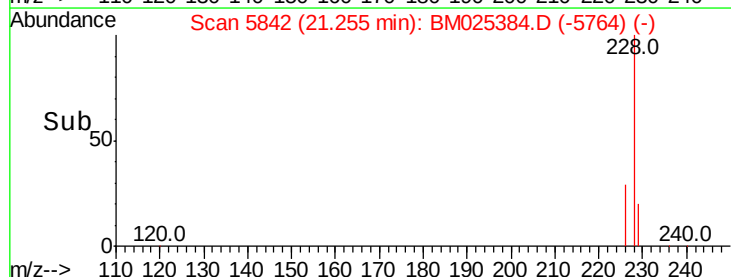
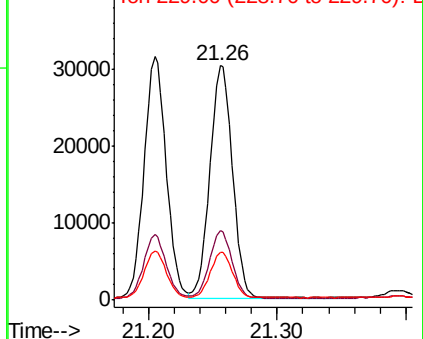
228 100

226 29.6 23.8 35.8

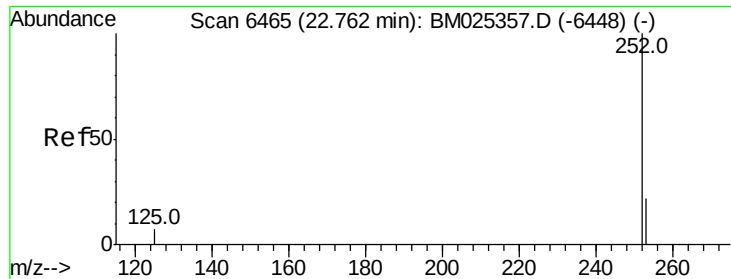
229 20.5 16.9 25.3



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

Benzo(b)fluoranthene

Concen: 0.326 ng/ul

RT: 22.76 min Scan# 6462

Delta R.T. -0.01 min

Lab File: BM025384.D

Acq: 08 Mar 2020 13:47

Instrument :

BNA\_M

ClientSampleId :

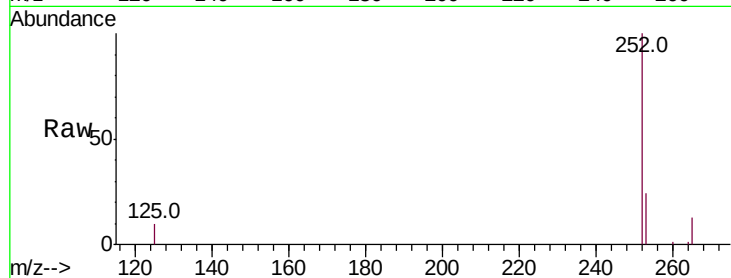
Tot Ion:252 Resp: 33519

Ion Ratio Lower Upper

252 100

253 24.0 0.0 49.8

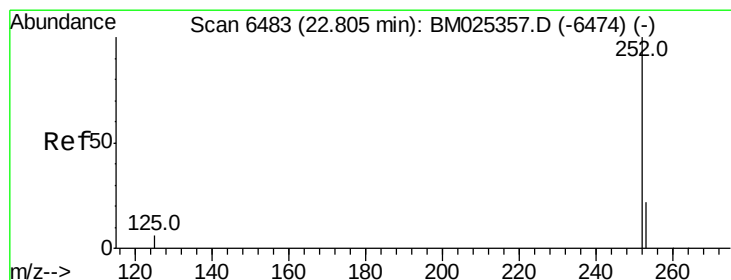
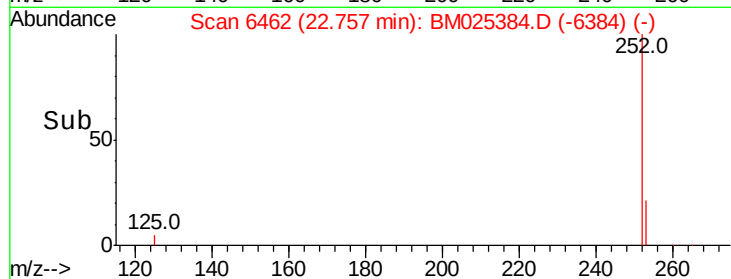
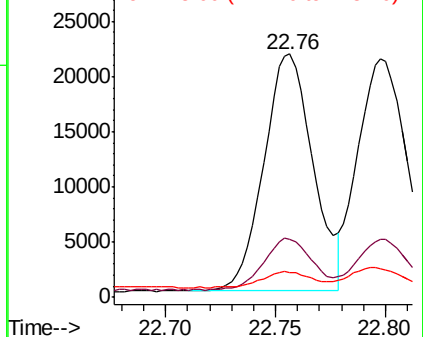
125 10.4 0.0 28.6



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: 0.304 ng/ul

RT: 22.80 min Scan# 6479

Delta R.T. -0.01 min

Lab File: BM025384.D

Acq: 08 Mar 2020 13:47

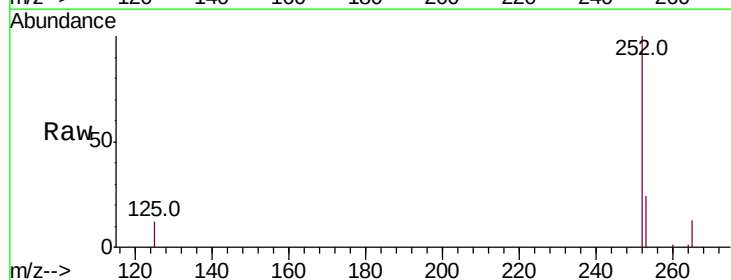
Tgt Ion:252 Resp: 32770

Ion Ratio Lower Upper

252 100

253 24.4 19.4 29.0

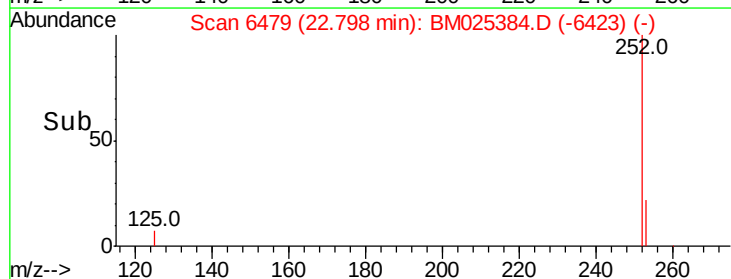
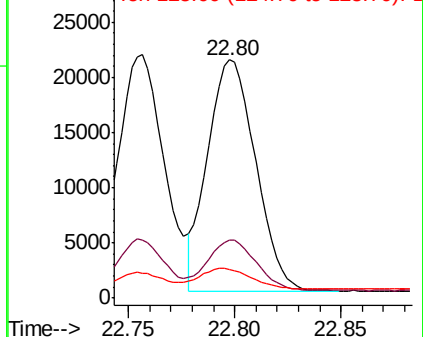
125 12.1 10.7 16.1

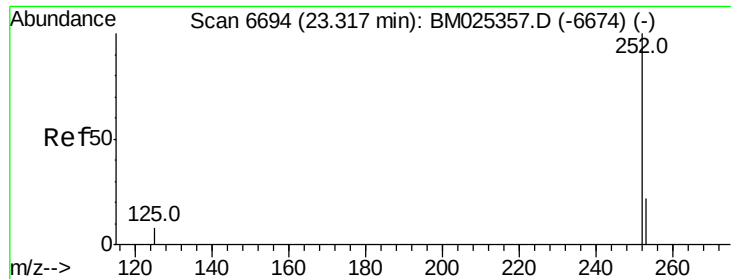


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 0.345 ng/ul

RT: 23.31 min Scan# 6690

Delta R.T. -0.01 min

Lab File: BM025384.D

Acq: 08 Mar 2020 13:47

Instrument :

BNA\_M

ClientSampleId :

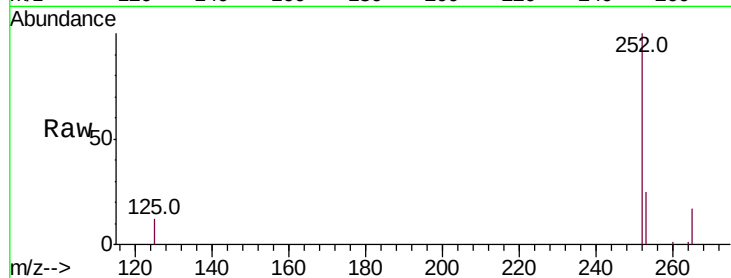
Tot Ion:252 Resp: 29743

Ion Ratio Lower Upper

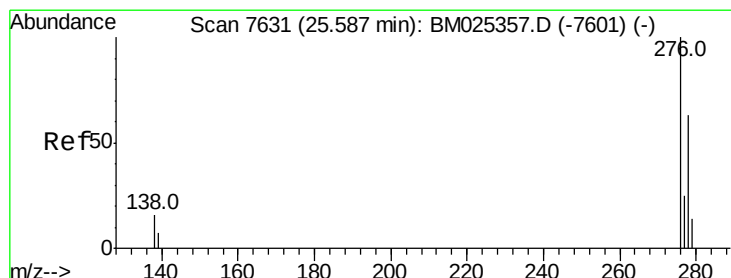
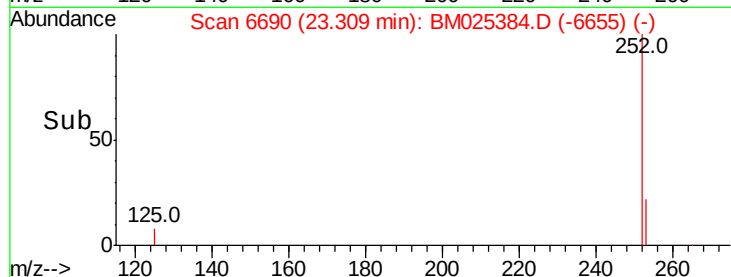
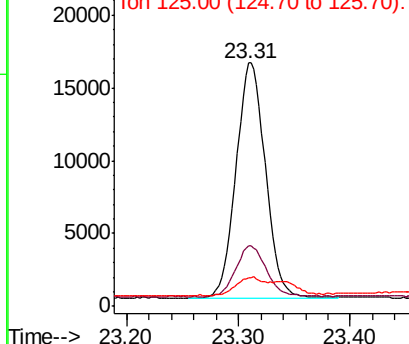
252 100

253 24.9 20.3 30.5

125 11.8 13.0 19.4#



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: 0.332 ng/ul

RT: 25.58 min Scan# 7628

Delta R.T. -0.02 min

Lab File: BM025384.D

Acq: 08 Mar 2020 13:47

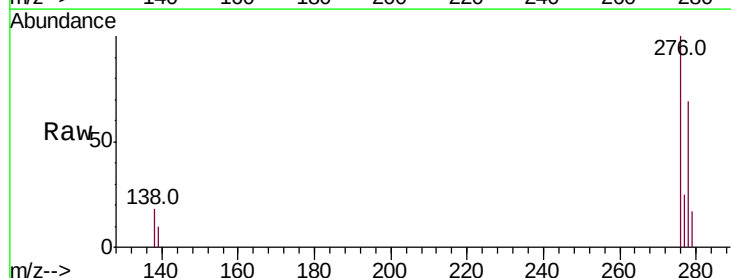
Tgt Ion:276 Resp: 35728

Ion Ratio Lower Upper

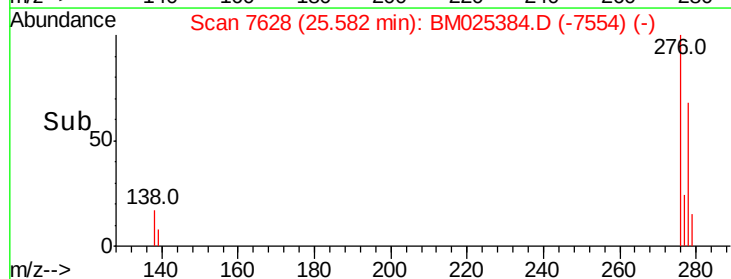
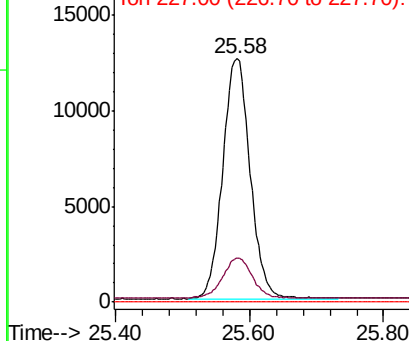
276 100

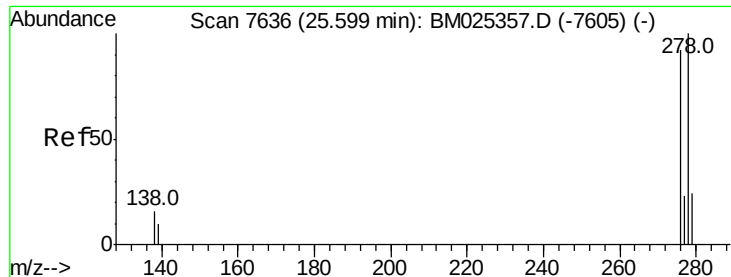
138 17.7 0.0 0.0#

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

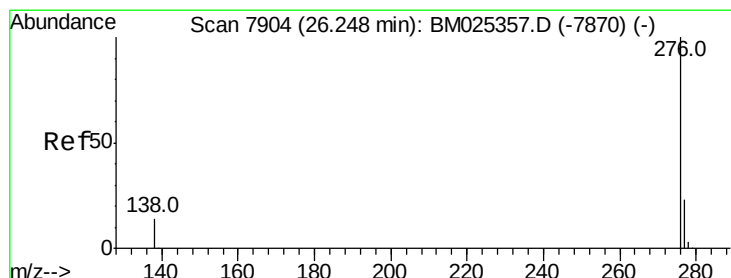
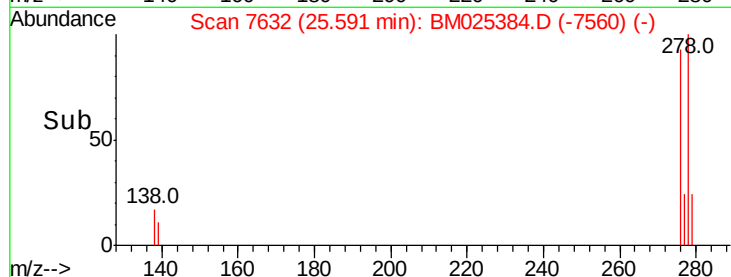
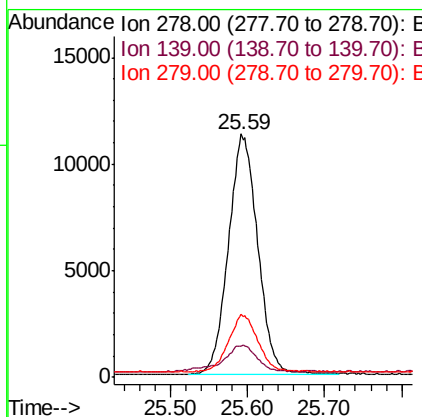
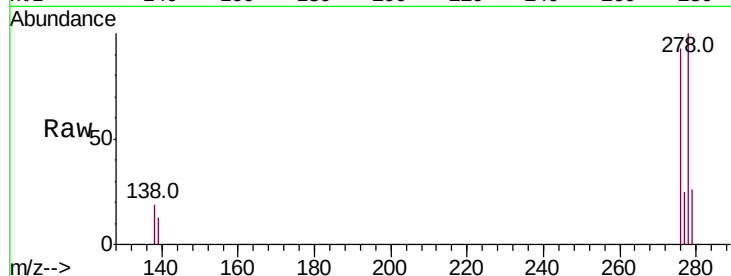




#25  
Dibenzo(a,h)anthracene  
Concen: 0.333 ng/ul  
RT: 25.59 min Scan# 7632  
Delta R.T. -0.03 min  
Lab File: BM025384.D  
Acq: 08 Mar 2020 13:47

Instrument :  
BNA\_M  
ClientSampleId :

Tot Ion:278 Resp: 29655  
Ion Ratio Lower Upper  
278 100  
139 13.0 13.2 19.8#  
279 25.8 21.0 31.4



#26  
Benzo(g,h,i)perylene  
Concen: 0.327 ng/ul  
RT: 26.24 min Scan# 7899  
Delta R.T. -0.02 min  
Lab File: BM025384.D  
Acq: 08 Mar 2020 13:47

Tgt Ion:276 Resp: 29855  
Ion Ratio Lower Upper  
276 100  
138 16.7 17.9 26.9#  
277 24.6 20.5 30.7

