

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120720\  
 Data File : BN013021.D  
 Acq On : 09 Dec 2020 20:44  
 Operator : CG/JU  
 Sample : L4941-01  
 Misc :  
 ALS Vial : 91 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Dec 10 01:00:25 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN120320.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 10 00:40:41 2020  
 Response via : Initial Calibration

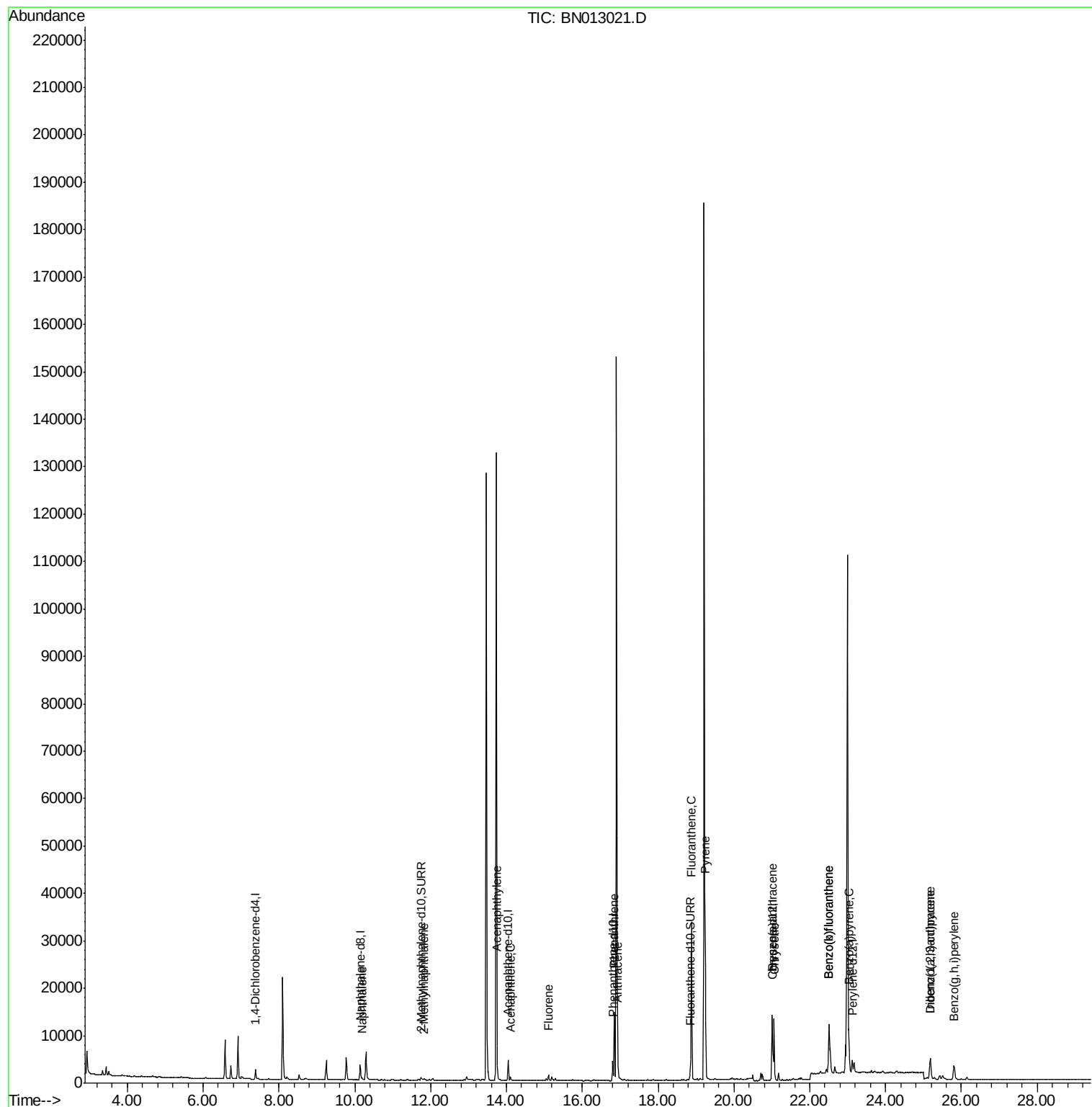
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.38  | 152  | 997      | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.14 | 136  | 4164     | 0.40   | ng/ul  | -0.01    |
| 6) Acenaphthene-d10         | 14.05 | 164  | 2293     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 16.81 | 188  | 4708     | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.02 | 240  | 3280     | 0.40   | ng/ul  | -0.01    |
| 20) Perylene-d12            | 23.12 | 264  | 3041     | 0.40   | ng/ul  | -0.02    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.75 | 152  | 909      | 0.15   | ng/ul  | -0.01    |
| 14) Fluoranthene-d10        | 18.85 | 212  | 1896     | 0.15   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.19 | 128  | 602      | 0.050  | ng/ul# | 84       |
| 5) 2-Methylnaphthalene      | 11.82 | 142  | 277      | 0.035  | ng/ul  | 98       |
| 7) Acenaphthylene           | 13.76 | 152  | 450      | 0.041  | ng/ul# | 71       |
| 8) Acenaphthene             | 14.11 | 153  | 474      | 0.053  | ng/ul  | 98       |
| 9) Fluorene                 | 15.11 | 166  | 721      | 0.071  | ng/ul# | 98       |
| 12) Phenanthrene            | 16.84 | 178  | 14893    | 0.943  | ng/ul  | 97       |
| 13) Anthracene              | 16.94 | 178  | 2930     | 0.218  | ng/ul  | 98       |
| 15) Fluoranthene            | 18.88 | 202  | 28092    | 1.498  | ng/ul  | 97       |
| 17) Pyrene                  | 19.25 | 202  | 26266    | 1.695  | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.01 | 228  | 10869    | 0.801  | ng/ul  | 99       |
| 19) Chrysene                | 21.06 | 228  | 12397    | 0.827  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.50 | 252  | 20958    | 1.490  | ng/ul  | 94       |
| 22) Benzo(k)fluoranthene    | 22.50 | 252  | 20958    | 1.348  | ng/ul  | 95       |
| 23) Benzo(a)pyrene          | 23.03 | 252  | 9780     | 0.749  | ng/ul  | 92       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.18 | 276  | 6691     | 0.390  | ng/ul# | 98       |
| 25) Dibenzo(a,h)anthracene  | 25.18 | 278  | 1574     | 0.116  | ng/ul# | 68       |
| 26) Benzo(a,h,i)perylene    | 25.81 | 276  | 5826     | 0.376  | ng/ul  | 96       |

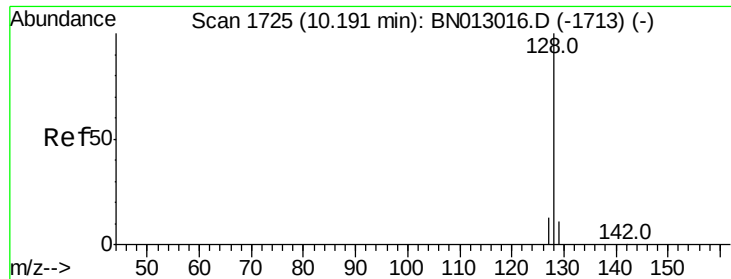
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN120720\  
Data File : BN013021.D  
Acq On : 09 Dec 2020 20:44  
Operator : CG/JU  
Sample : L4941-01  
Misc :  
ALS Vial : 91 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :

Quant Time: Dec 10 01:00:25 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN120320.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 10 00:40:41 2020  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.050 ng/ul

RT: 10.19 min Scan# 1725

Delta R.T. -0.01 min

Lab File: BN013021.D

Acq: 09 Dec 2020 20:44

Instrument :

BNA\_N

ClientSampleId :

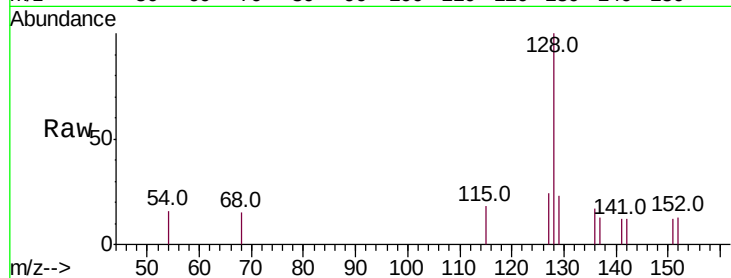
Tot Ion:128 Resp: 602

Ion Ratio Lower Upper

128 100

129 23.1 12.3 18.5#

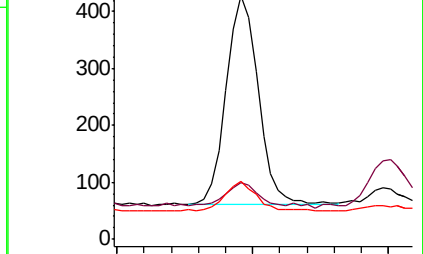
127 23.6 14.2 21.4#



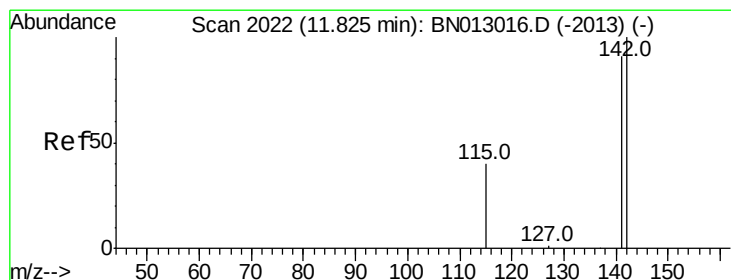
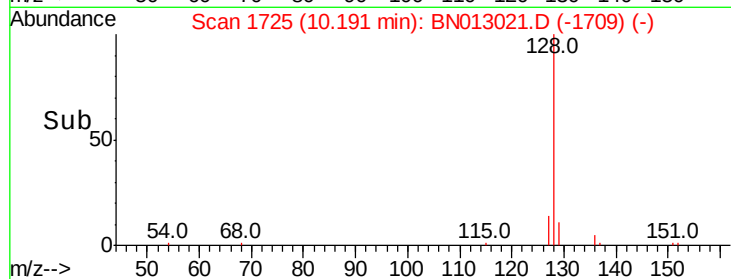
Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



Time--> 10.10 10.20



#5

2-Methylnaphthalene

Concen: 0.035 ng/ul

RT: 11.82 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BN013021.D

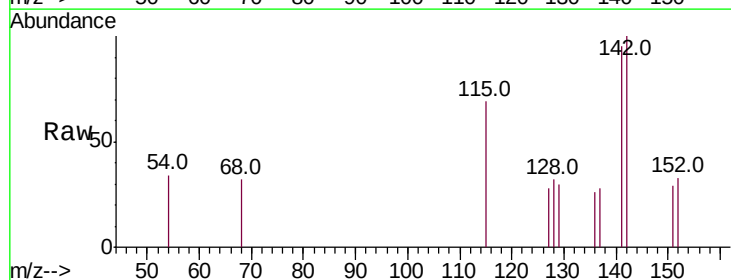
Acq: 09 Dec 2020 20:44

Tgt Ion:142 Resp: 277

Ion Ratio Lower Upper

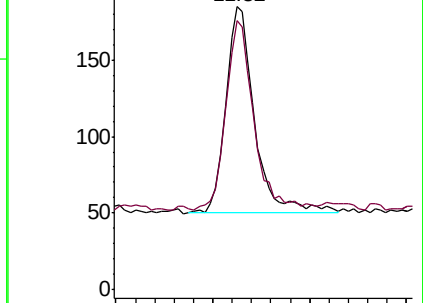
142 100

141 89.2 73.0 109.6

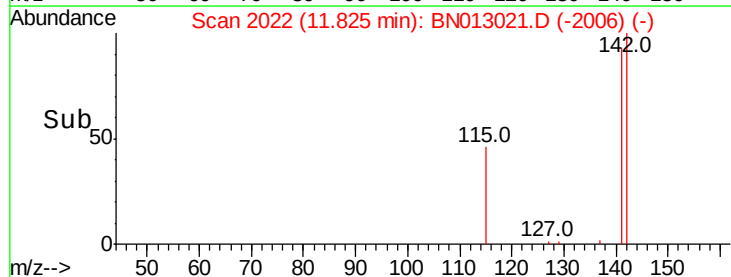


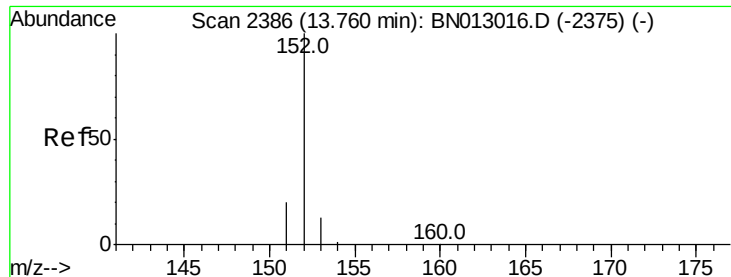
Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E



Time--> 11.70 11.80 11.90





#7

Acenaphthylene

Concen: 0.041 ng/ul

RT: 13.76 min Scan# 2386

Delta R.T. -0.01 min

Lab File: BN013021.D

Acq: 09 Dec 2020 20:44

Instrument :

BNA\_N

ClientSampleId :

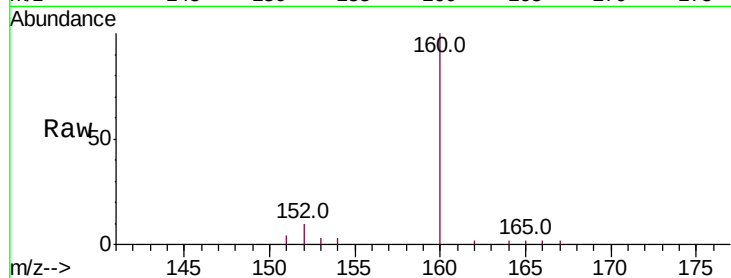
Tot Ion:152 Resp: 450

Ion Ratio Lower Upper

152 100

151 36.5 18.2 27.4#

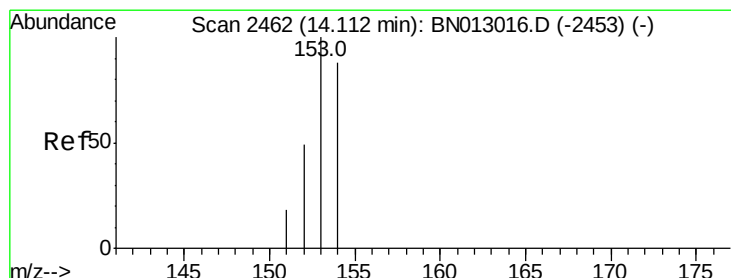
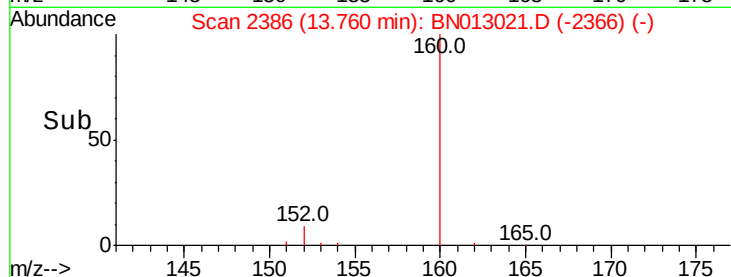
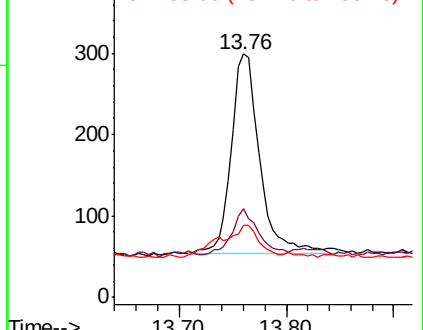
153 29.8 13.1 19.7#



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: 0.053 ng/ul

RT: 14.11 min Scan# 2462

Delta R.T. -0.00 min

Lab File: BN013021.D

Acq: 09 Dec 2020 20:44

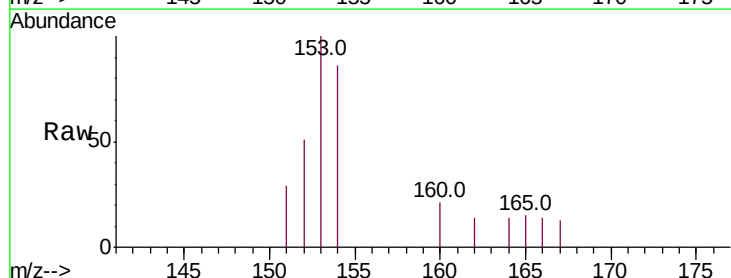
Tgt Ion:153 Resp: 474

Ion Ratio Lower Upper

153 100

152 51.1 40.7 61.1

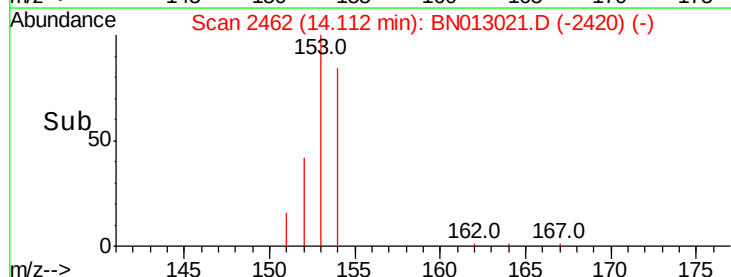
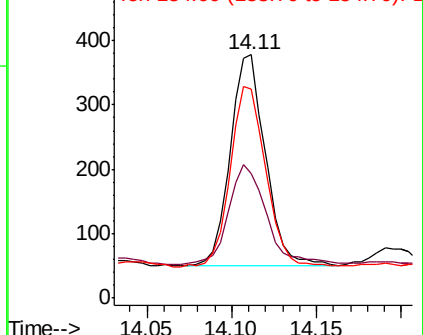
154 85.7 70.8 106.2

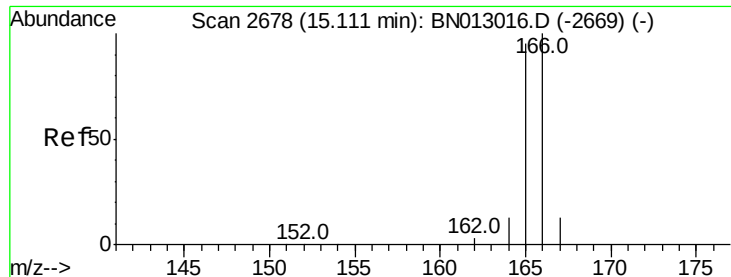


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 0.071 ng/ul

RT: 15.11 min Scan# 2677

Delta R.T. -0.01 min

Lab File: BN013021.D

Acq: 09 Dec 2020 20:44

Instrument :

BNA\_N

ClientSampleId :

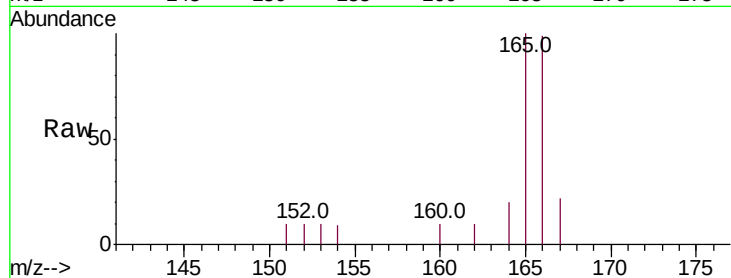
Tot Ion:166 Resp: 721

Ion Ratio Lower Upper

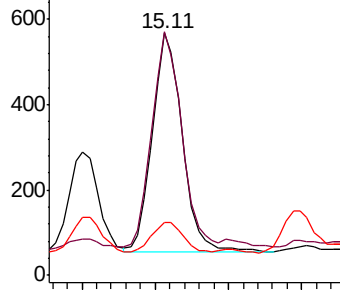
166 100

165 100.5 79.8 119.8

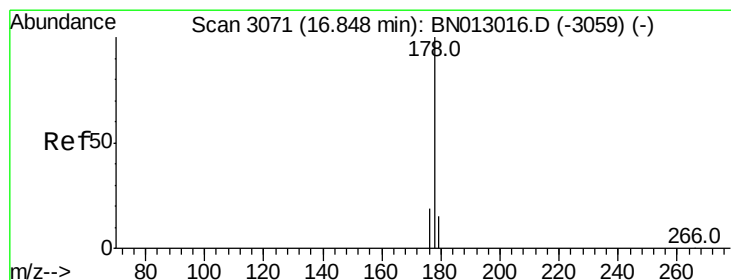
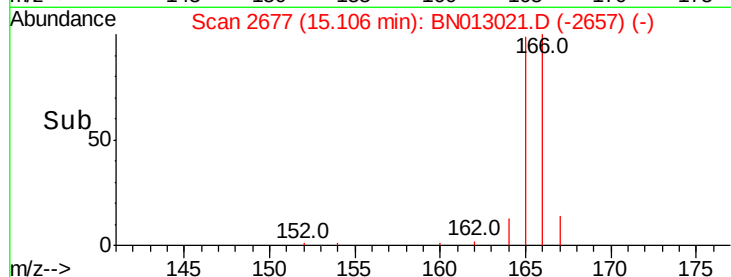
167 21.7 13.8 20.8#



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



Time-->



#12

Phenanthrene

Concen: 0.943 ng/ul

RT: 16.84 min Scan# 3070

Delta R.T. -0.01 min

Lab File: BN013021.D

Acq: 09 Dec 2020 20:44

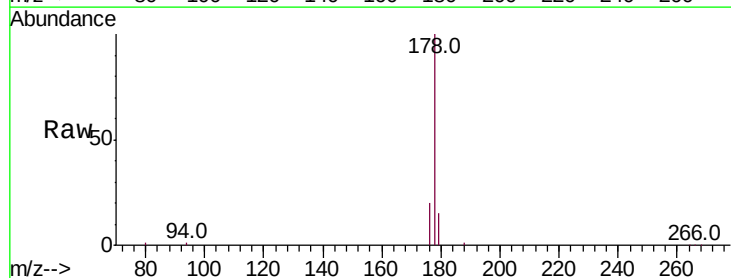
Tgt Ion:178 Resp: 14893

Ion Ratio Lower Upper

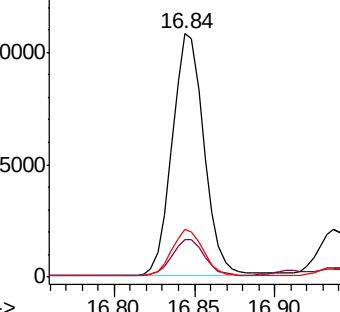
178 100

179 15.4 13.6 20.4

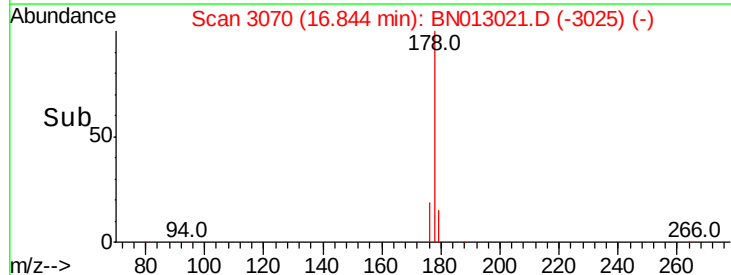
176 19.7 16.4 24.6

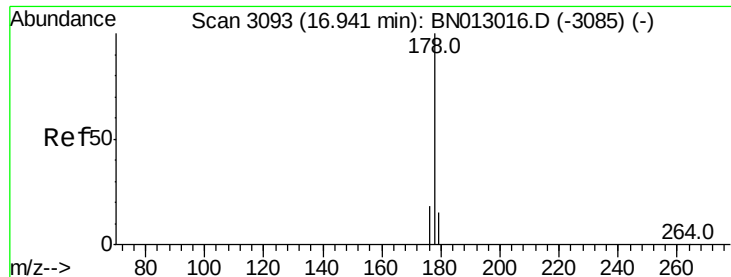


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E



Time-->





#13

Anthracene

Concen: 0.218 ng/ul

RT: 16.94 min Scan# 3092

Delta R.T. -0.01 min

Lab File: BN013021.D

Acq: 09 Dec 2020 20:44

Instrument :

BNA\_N

ClientSampleId :

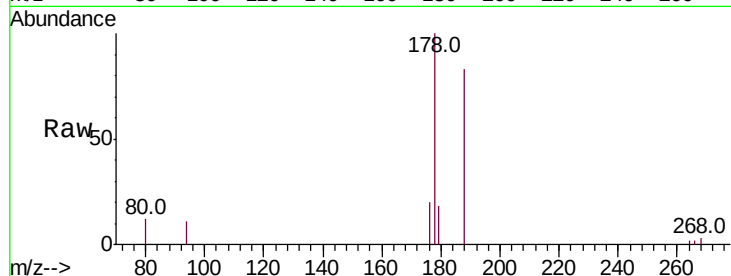
Tot Ion:178 Resp: 2930

Ion Ratio Lower Upper

178 100

179 17.8 14.6 21.8

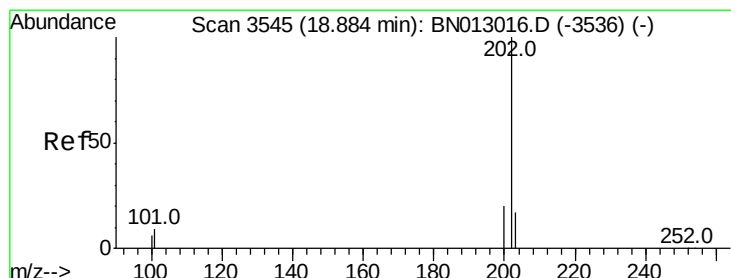
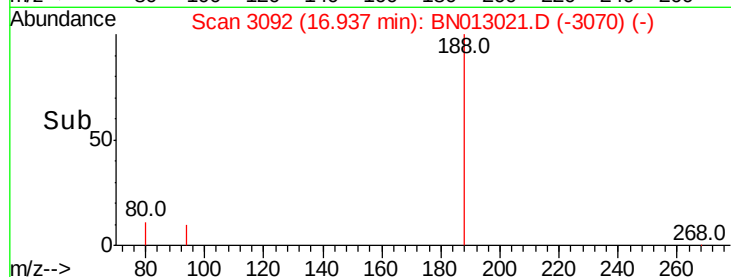
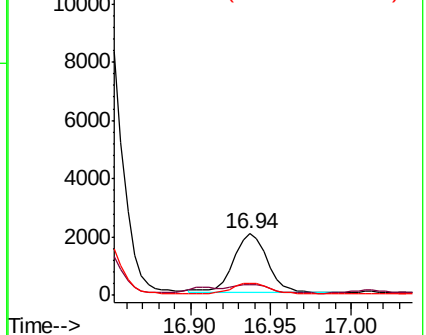
176 19.8 17.1 25.7



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: 1.498 ng/ul

RT: 18.88 min Scan# 3544

Delta R.T. -0.00 min

Lab File: BN013021.D

Acq: 09 Dec 2020 20:44

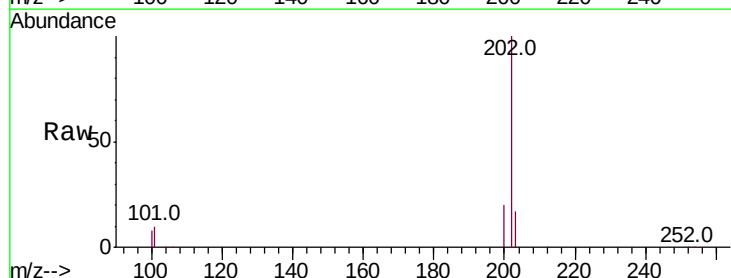
Tgt Ion:202 Resp: 28092

Ion Ratio Lower Upper

202 100

101 9.7 0.0 30.6

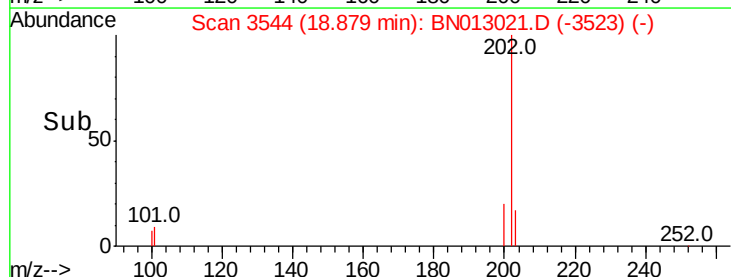
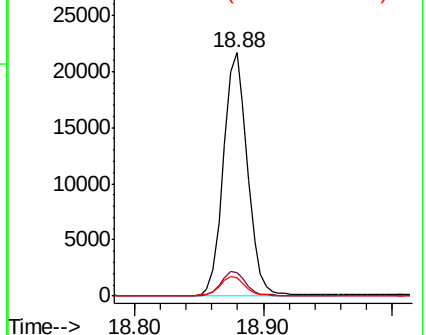
100 7.6 0.0 28.7

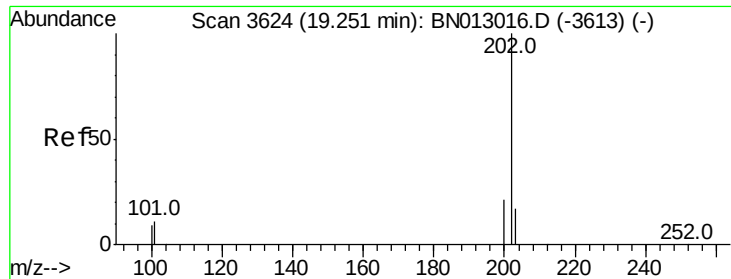


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#17

Pvrene

Concen: 1.695 ng/ul

RT: 19.25 min Scan# 3623

Delta R.T. -0.00 min

Lab File: BN013021.D

Acq: 09 Dec 2020 20:44

Instrument :

BNA\_N

ClientSampled :

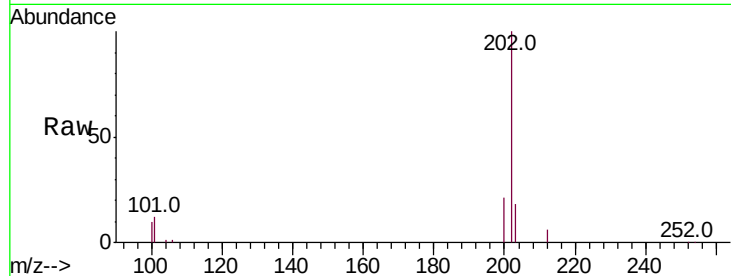
Tot Ion:202 Resp: 26266

Ion Ratio Lower Upper

202 100

101 11.7 9.1 13.7

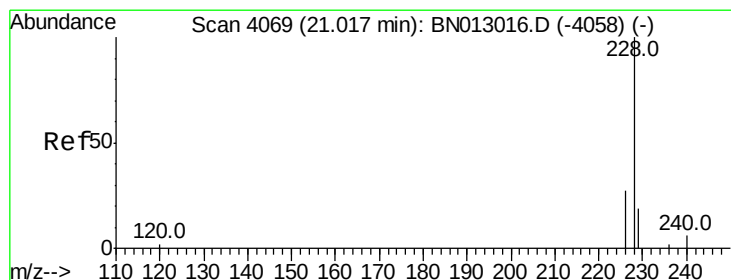
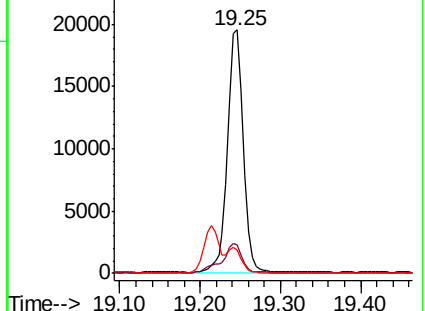
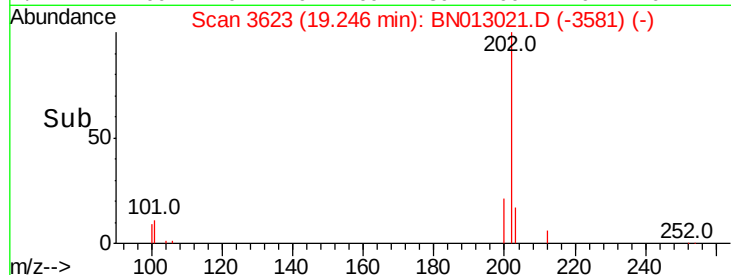
100 9.6 7.5 11.3



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: 0.801 ng/ul

RT: 21.01 min Scan# 4066

Delta R.T. -0.01 min

Lab File: BN013021.D

Acq: 09 Dec 2020 20:44

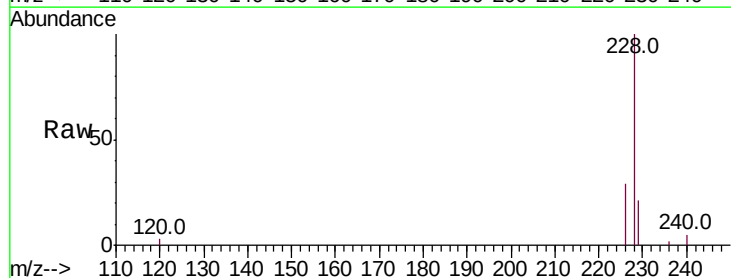
Tgt Ion:228 Resp: 10869

Ion Ratio Lower Upper

228 100

229 21.2 16.3 24.5

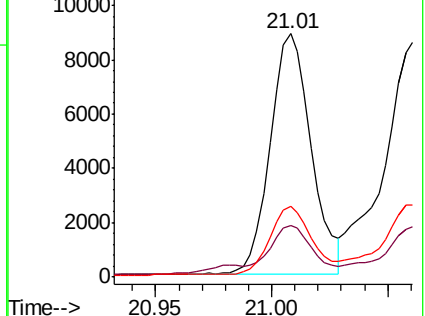
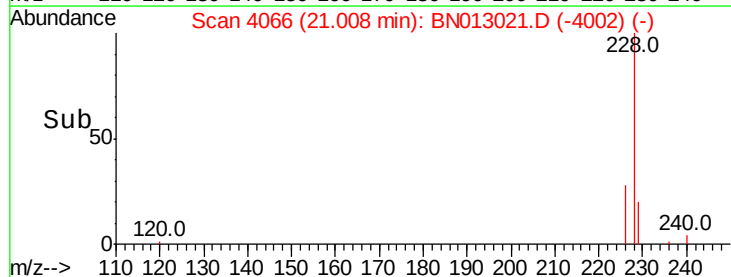
226 29.1 23.4 35.2

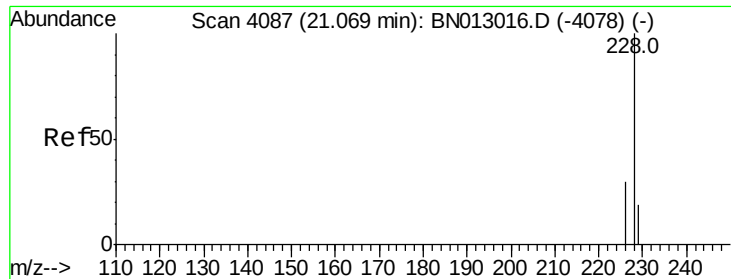


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#19

Chrysene

Concen: 0.827 ng/ul

RT: 21.06 min Scan# 4084

Delta R.T. -0.01 min

Lab File: BN013021.D

Acq: 09 Dec 2020 20:44

Instrument :

BNA\_N

ClientSampleId :

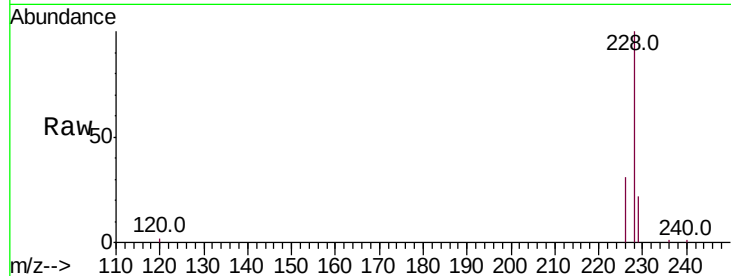
Tot Ion:228 Resp: 12397

Ion Ratio Lower Upper

228 100

226 30.6 25.0 37.6

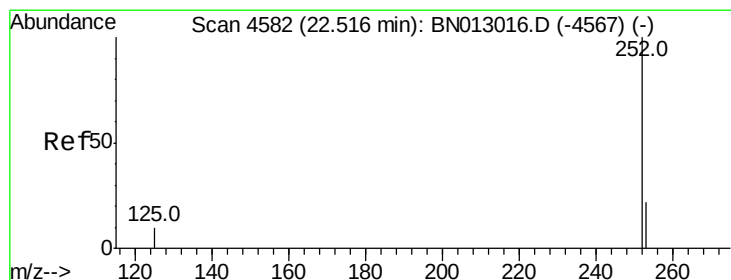
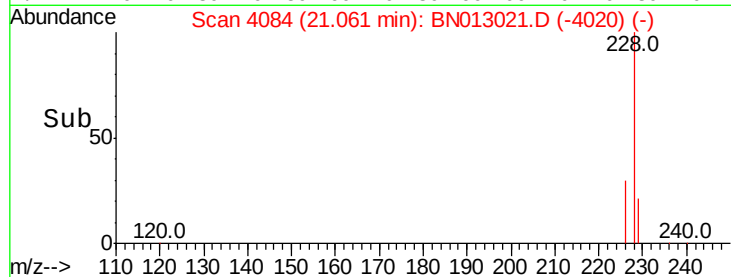
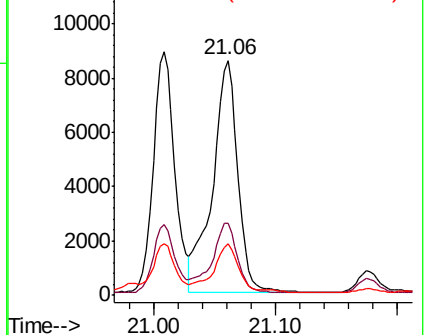
229 21.7 16.4 24.6



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



#21

Benzo(b)fluoranthene

Concen: 1.490 ng/ul

RT: 22.50 min Scan# 4578

Delta R.T. -0.01 min

Lab File: BN013021.D

Acq: 09 Dec 2020 20:44

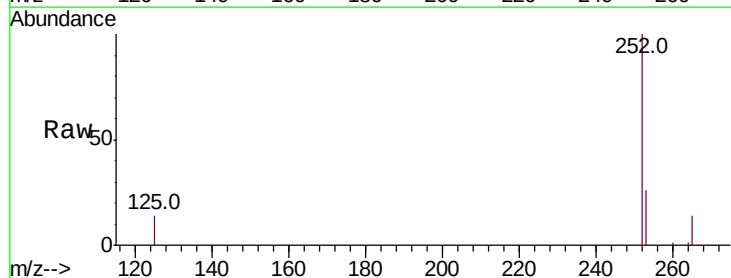
Tgt Ion:252 Resp: 20958

Ion Ratio Lower Upper

252 100

253 25.8 0.0 59.6

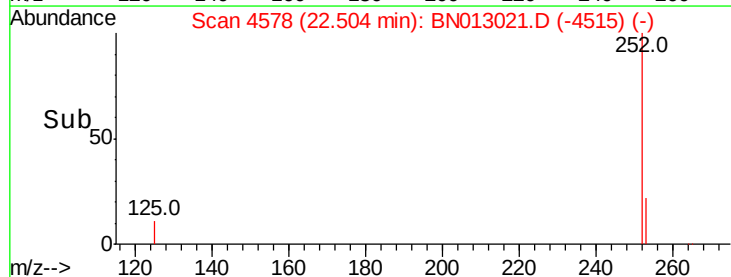
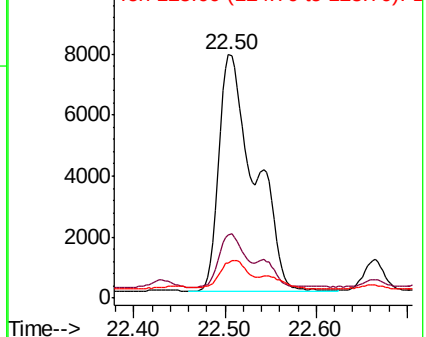
125 14.4 0.0 26.0



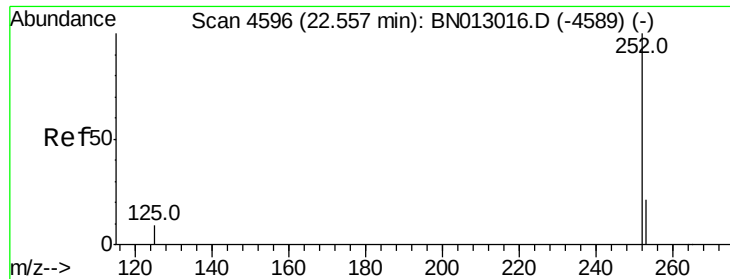
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E







#22

Benzo(k)fluoranthene

Concen: 1.348 ng/ul

RT: 22.50 min Scan# 4578

Delta R.T. -0.06 min

Lab File: BN013021.D

Acq: 09 Dec 2020 20:44

Instrument :

BNA\_N

ClientSampleId :

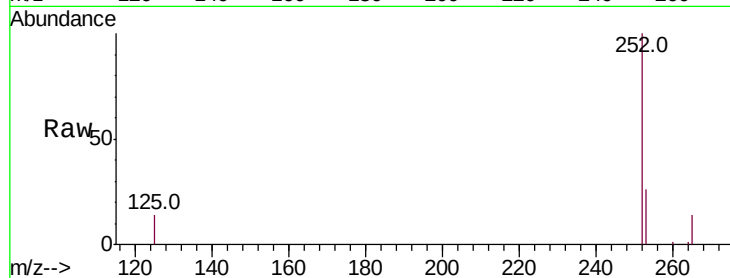
Tot Ion:252 Resp: 20958

Ion Ratio Lower Upper

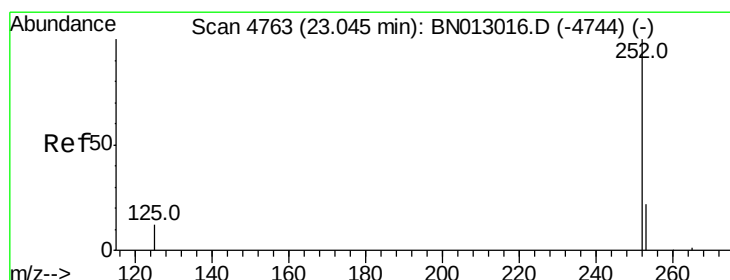
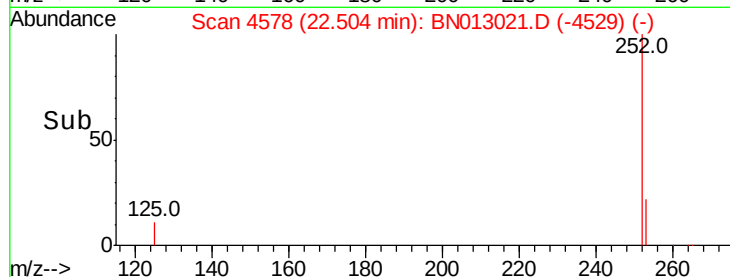
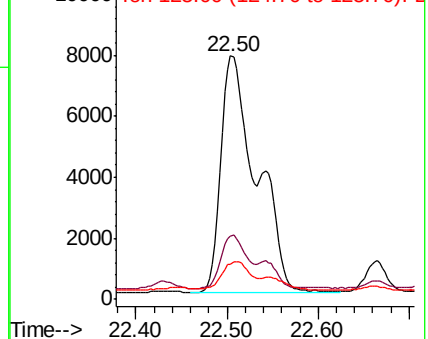
252 100

253 25.8 23.4 35.2

125 14.4 11.1 16.7



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: 0.749 ng/ul

RT: 23.03 min Scan# 4758

Delta R.T. -0.01 min

Lab File: BN013021.D

Acq: 09 Dec 2020 20:44

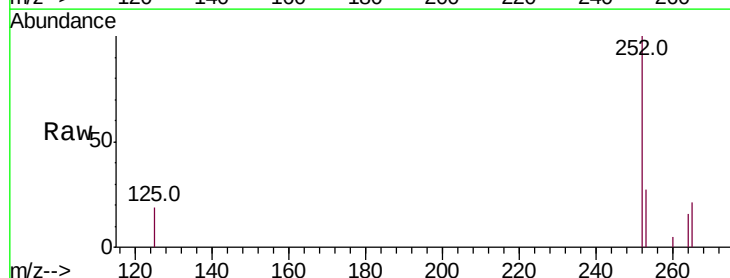
Tgt Ion:252 Resp: 9780

Ion Ratio Lower Upper

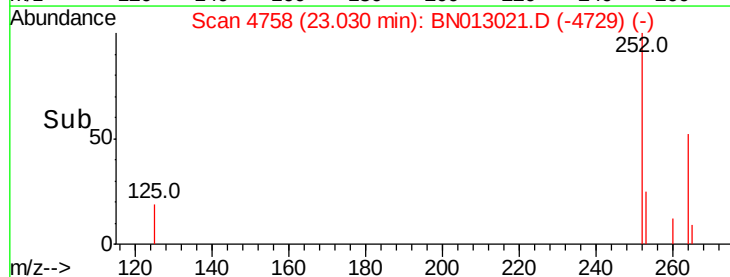
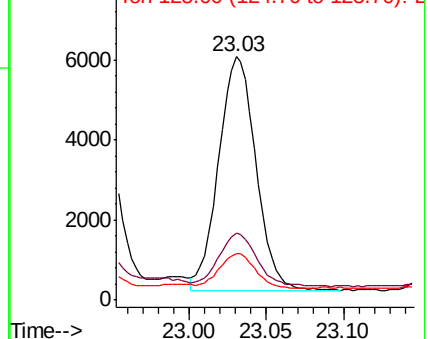
252 100

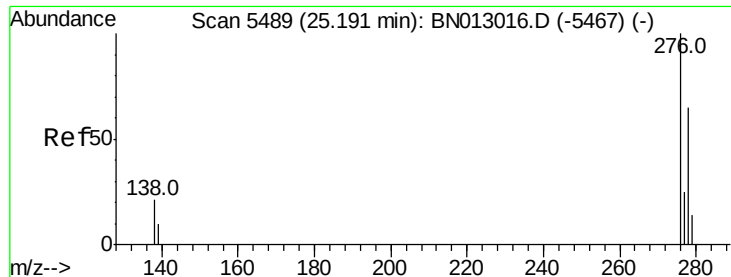
253 27.4 26.5 39.7

125 19.1 14.2 21.2



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



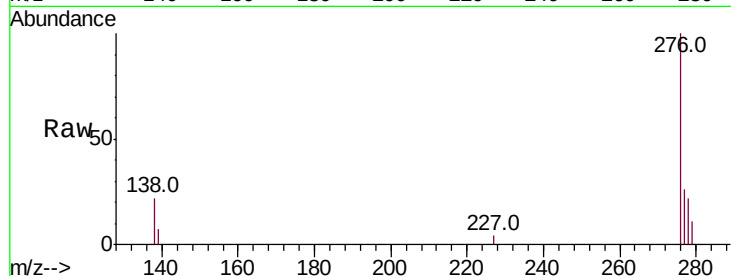


#24

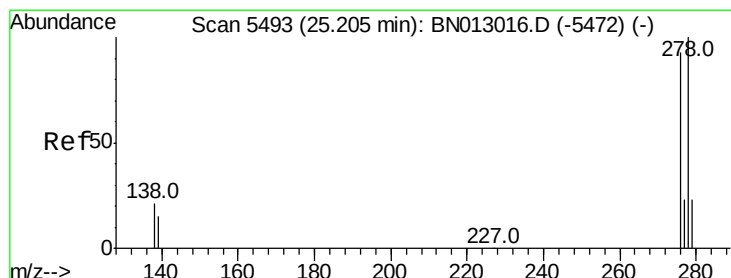
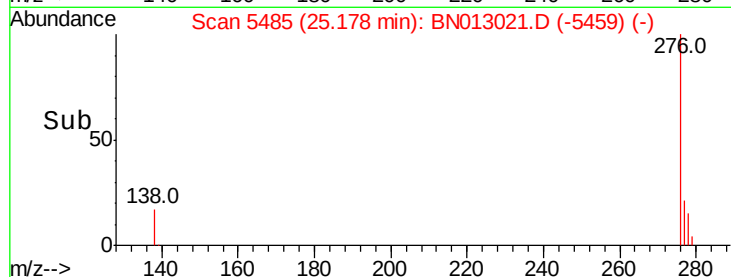
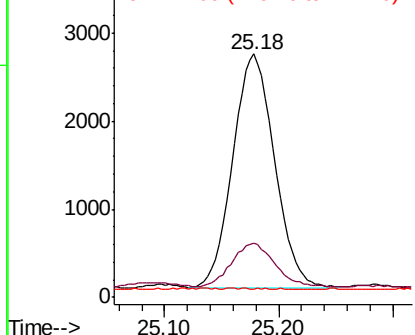
Indeno(1,2,3-cd)pyrene  
Concen: 0.390 ng/ul  
RT: 25.18 min Scan# 5485  
Delta R.T. -0.01 min  
Lab File: BN013021.D  
Acq: 09 Dec 2020 20:44

Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:276 Resp: 6691  
Ion Ratio Lower Upper  
276 100  
138 19.4 16.2 24.2  
227 0.1 0.0 0.0#



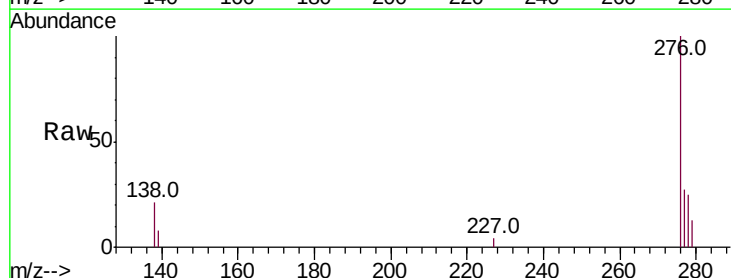
Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 227.00 (226.70 to 227.70): E



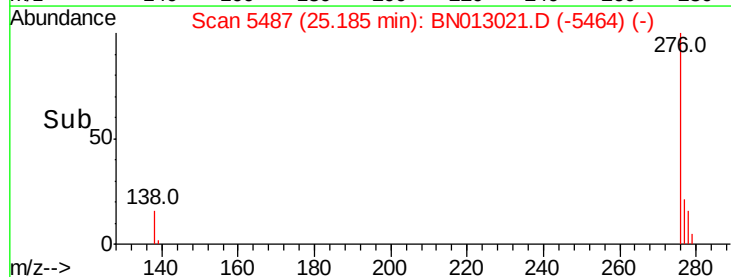
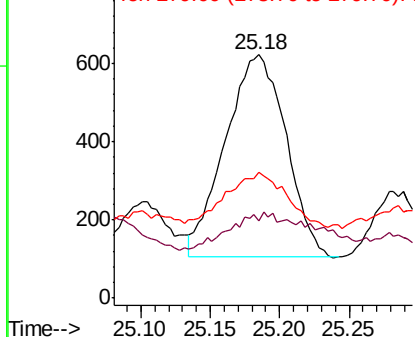
#25

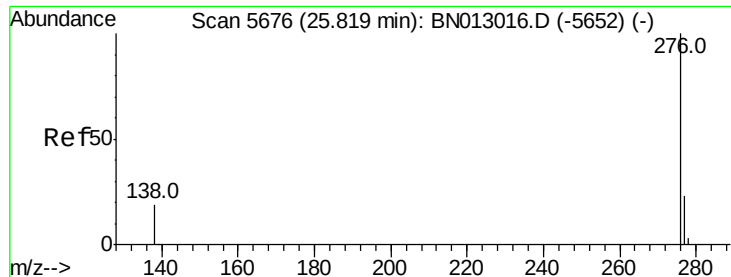
Dibenzo(a,h)anthracene  
Concen: 0.116 ng/ul  
RT: 25.18 min Scan# 5487  
Delta R.T. -0.02 min  
Lab File: BN013021.D  
Acq: 09 Dec 2020 20:44

Tgt Ion:278 Resp: 1574  
Ion Ratio Lower Upper  
278 100  
139 31.5 14.5 21.7#  
279 51.8 26.3 39.5#



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(a,h,i)perylene

Concen: 0.376 ng/ul

RT: 25.81 min Scan# 5672

Delta R.T. -0.02 min

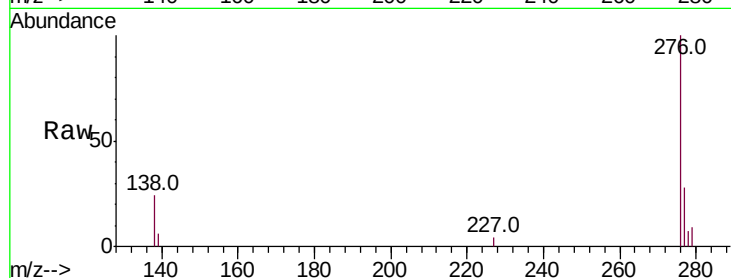
Lab File: BN013021.D

Acq: 09 Dec 2020 20:44

Instrument :

BNA\_N

ClientSampleId :



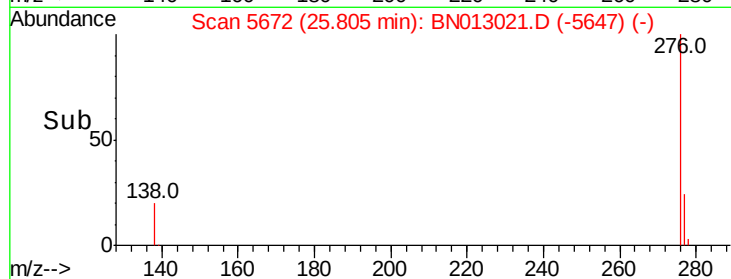
Tot Ion:276 Resp: 5826

Ion Ratio Lower Upper

276 100

138 23.9 16.3 24.5

277 27.9 21.8 32.6



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

