

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101420\  
 Data File : BN012220.D  
 Acq On : 15 Oct 2020 07:10  
 Operator : CG/JU  
 Sample : L4184-20DL 5X  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AP4DL

Quant Time: Oct 15 08:09:30 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\SOM-EPA-SIM-BN101420.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 15 04:47:44 2020  
 Response via : Initial Calibration

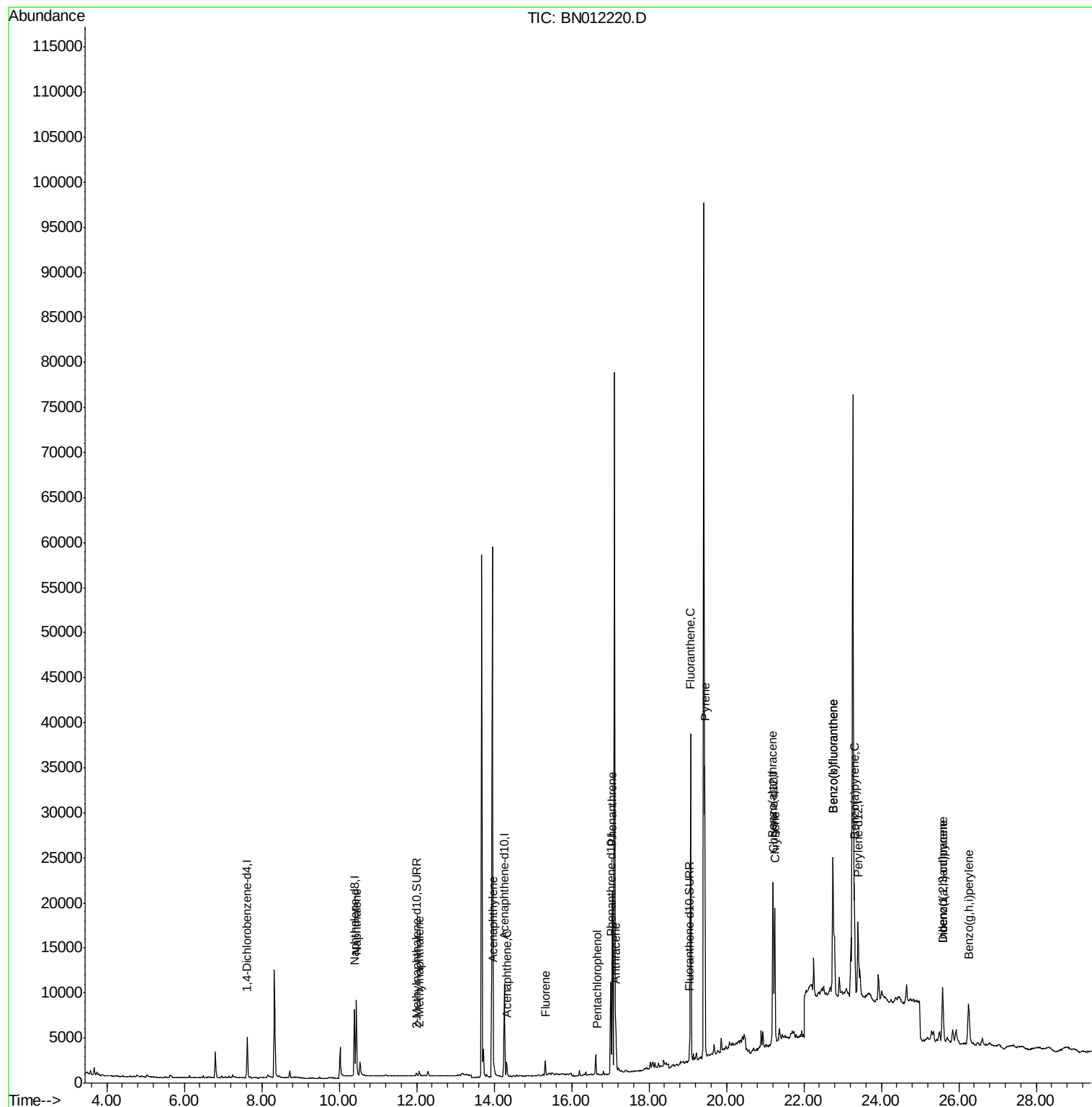
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.62  | 152  | 2332     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.39 | 136  | 9735     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.26 | 164  | 5574     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.01 | 188  | 11736    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.21 | 240  | 9557     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.40 | 264  | 9853     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.00 | 152  | 460      | 0.03   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.05 | 212  | 1049     | 0.03   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.44 | 128  | 4895     | 0.174  | ng/ul  | 100      |
| 5) 2-Methylnaphthalene      | 12.07 | 142  | 446      | 0.025  | ng/ul  | 95       |
| 7) Acenaphthylene           | 13.98 | 152  | 990      | 0.041  | ng/ul# | 79       |
| 8) Acenaphthene             | 14.32 | 153  | 973      | 0.048  | ng/ul  | 96       |
| 9) Fluorene                 | 15.32 | 166  | 1080     | 0.047  | ng/ul# | 92       |
| 11) Pentachlorophenol       | 16.67 | 266  | 84       | 0.025  | ng/ul  | 87       |
| 12) Phenanthrene            | 17.05 | 178  | 20783    | 0.556  | ng/ul  | 99       |
| 13) Anthracene              | 17.14 | 178  | 3558     | 0.111  | ng/ul# | 93       |
| 15) Fluoranthene            | 19.07 | 202  | 31073    | 0.710  | ng/ul  | 99       |
| 17) Pyrene                  | 19.44 | 202  | 26833    | 0.623  | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.20 | 228  | 13422    | 0.379  | ng/ul# | 89       |
| 19) Chrysene                | 21.25 | 228  | 13688    | 0.317  | ng/ul# | 89       |
| 21) Benzo(b)fluoranthene    | 22.75 | 252  | 24546    | 0.617  | ng/ul# | 39       |
| 22) Benzo(k)fluoranthene    | 22.75 | 252  | 24546    | 0.557  | ng/ul# | 38       |
| 23) Benzo(a)pyrene          | 23.31 | 252  | 11886    | 0.307  | ng/ul# | 48       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.58 | 276  | 9386     | 0.189  | ng/ul# | 100      |
| 25) Dibenzo(a,h)anthracene  | 25.59 | 278  | 2415     | 0.061  | ng/ul# | 1        |
| 26) Benzo(g,h,i)perylene    | 26.25 | 276  | 9073     | 0.199  | ng/ul# | 74       |

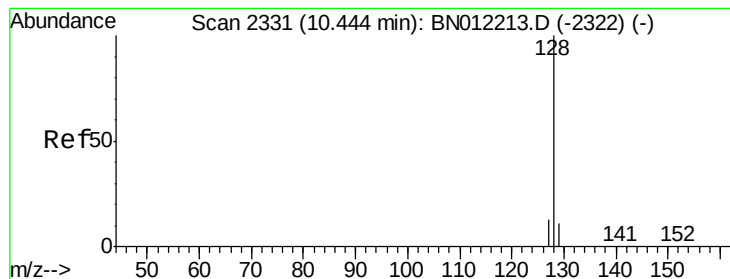
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Oct 15 04:47:44 2020  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.174 ng/ul

RT: 10.44 min Scan# 2331

Delta R.T. 0.00 min

Lab File: BN012220.D

Acq: 15 Oct 2020 07:10

Instrument :

BNA\_N

ClientSampleId :

C0AP4DL

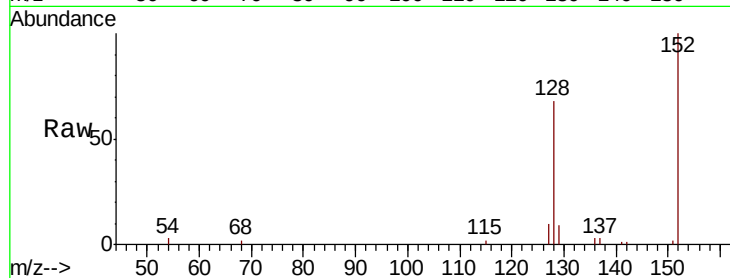
Tot Ion:128 Resp: 4895

Ion Ratio Lower Upper

128 100

129 12.7 10.3 15.5

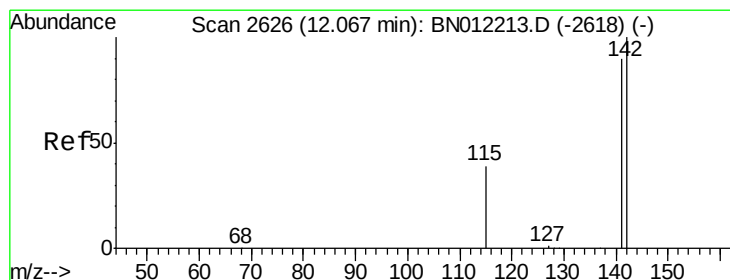
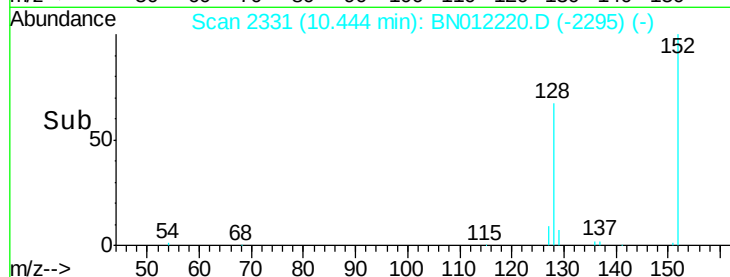
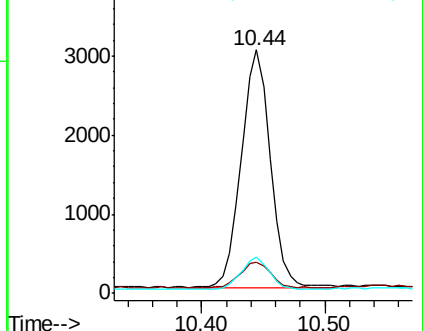
127 14.7 11.9 17.9



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: 0.025 ng/ul

RT: 12.07 min Scan# 2626

Delta R.T. 0.00 min

Lab File: BN012220.D

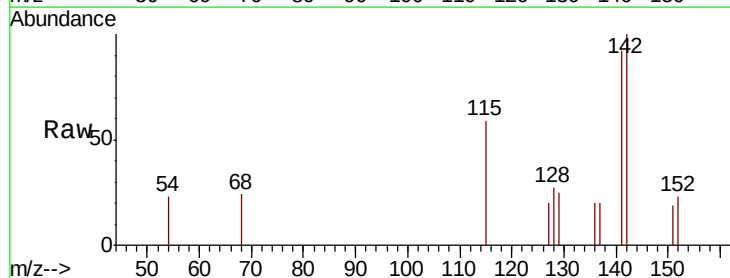
Acq: 15 Oct 2020 07:10

Tgt Ion:142 Resp: 446

Ion Ratio Lower Upper

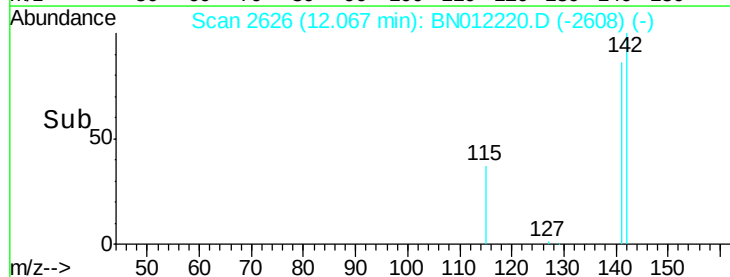
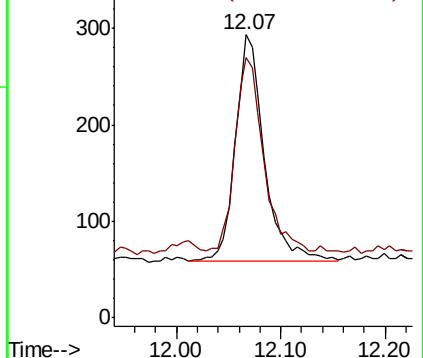
142 100

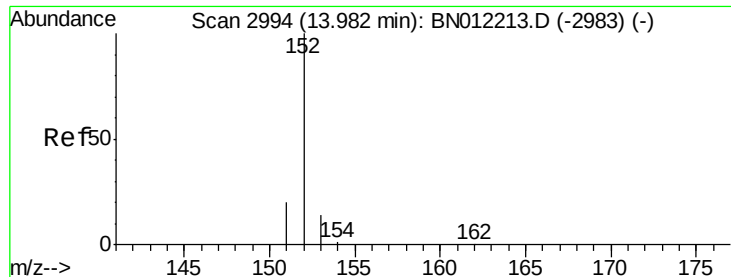
141 85.2 71.7 107.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.041 ng/ul

RT: 13.98 min Scan# 2994

Delta R.T. 0.00 min

Lab File: BN012220.D

Acq: 15 Oct 2020 07:10

Instrument :

BNA\_N

ClientSampleId :

C0AP4DL

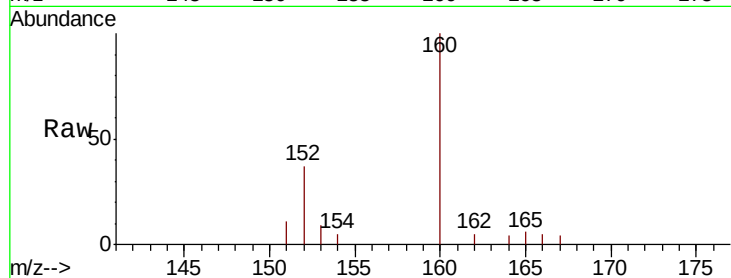
Tot Ion:152 Resp: 990

Ion Ratio Lower Upper

152 100

151 30.3 16.7 25.1#

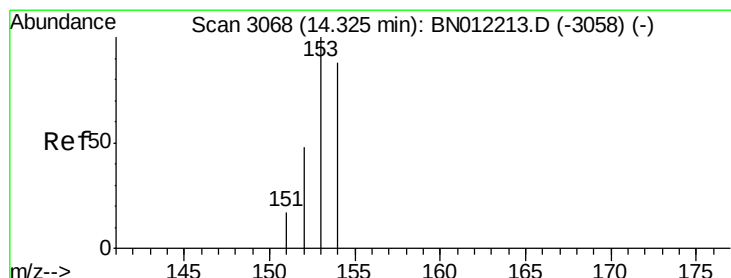
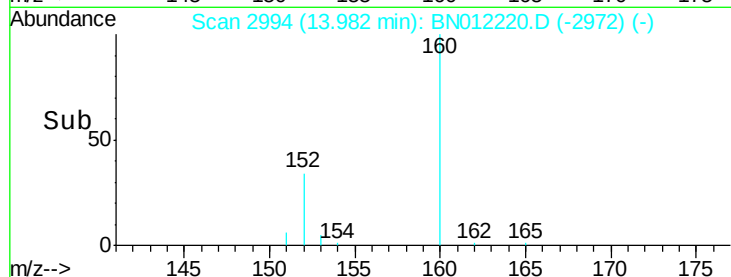
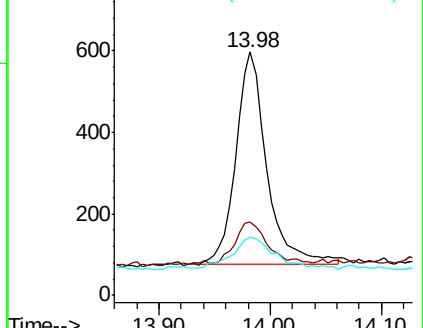
153 23.6 11.8 17.8#



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: 0.048 ng/ul

RT: 14.32 min Scan# 3068

Delta R.T. 0.00 min

Lab File: BN012220.D

Acq: 15 Oct 2020 07:10

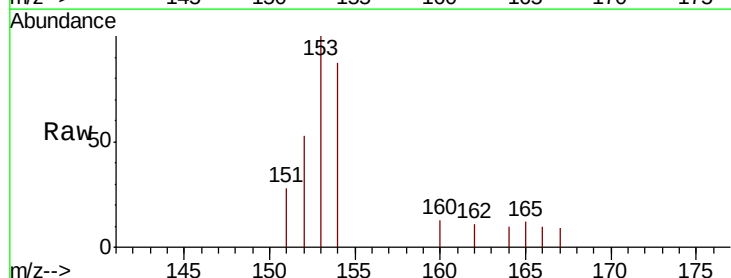
Tgt Ion:153 Resp: 973

Ion Ratio Lower Upper

153 100

152 52.7 38.2 57.2

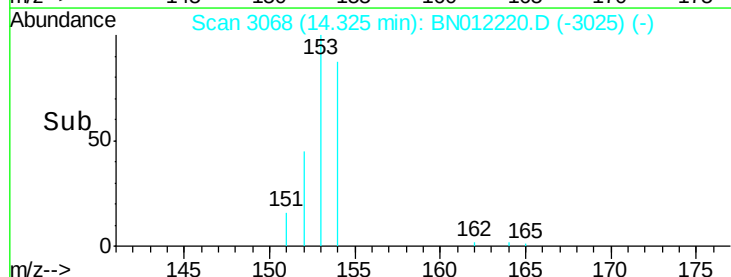
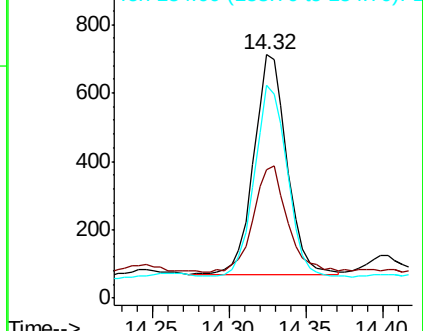
154 87.2 71.1 106.7

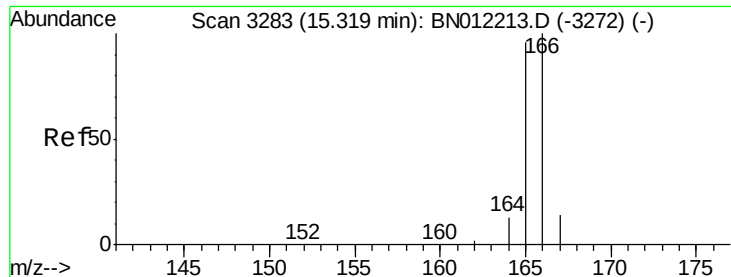


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E

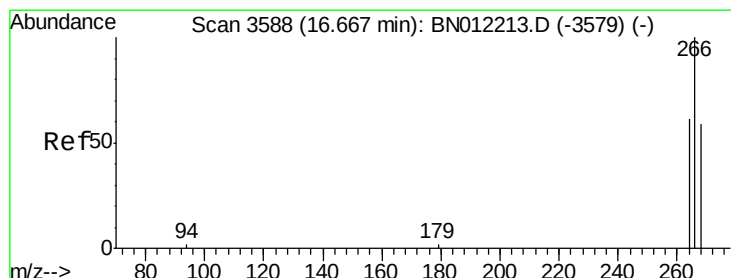
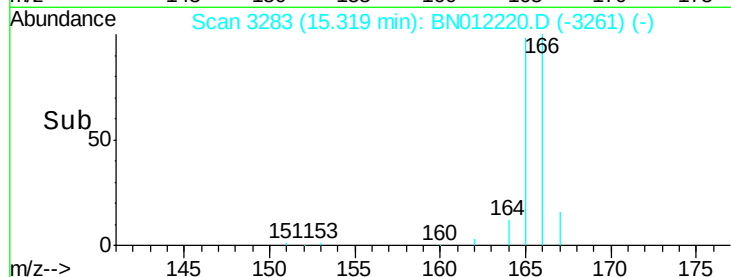
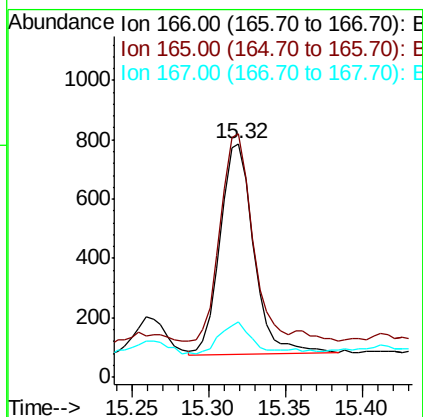
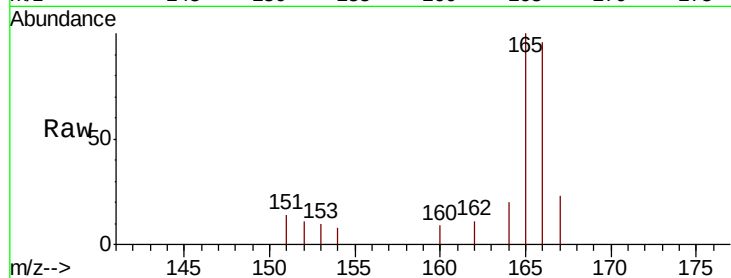




#9  
**Fluorene**  
 Concen: 0.047 ng/ul  
 RT: 15.32 min Scan# 3283  
 Delta R.T. 0.00 min  
 Lab File: BN012220.D  
 Acq: 15 Oct 2020 07:10

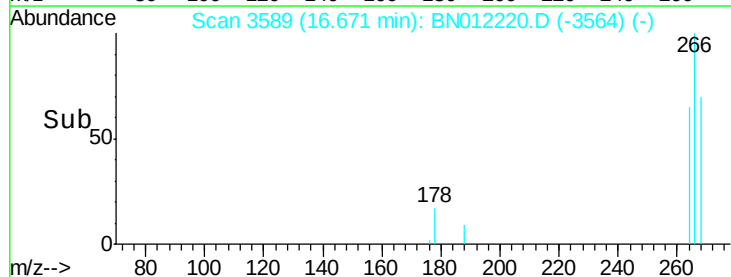
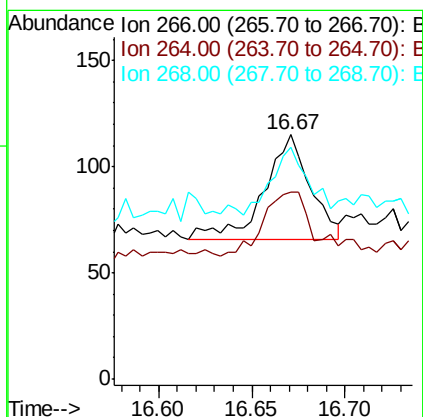
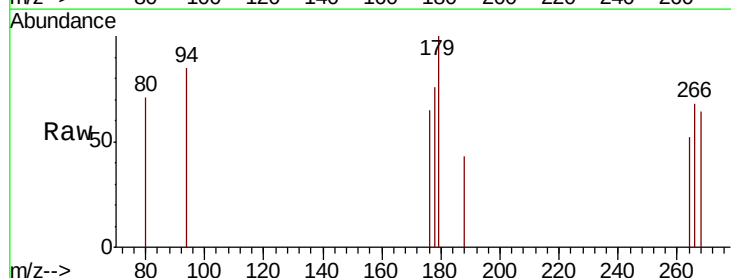
Instrument :  
 BNA\_N  
 ClientSampleId :  
 C0AP4DL

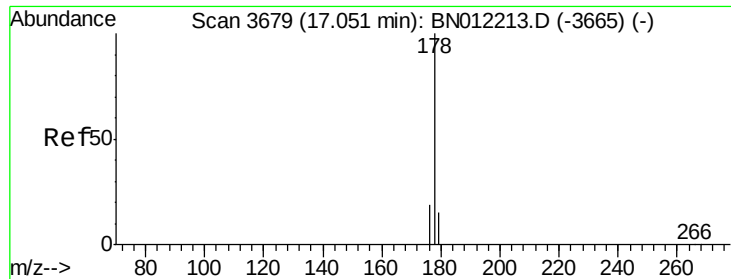
Tot Ion:166 Resp: 1080  
 Ion Ratio Lower Upper  
 166 100  
 165 104.3 78.6 118.0  
 167 23.7 11.9 17.9#



#11  
**Pentachlorophenol**  
 Concen: 0.025 ng/ul  
 RT: 16.67 min Scan# 3589  
 Delta R.T. 0.00 min  
 Lab File: BN012220.D  
 Acq: 15 Oct 2020 07:10

Tgt Ion:266 Resp: 84  
 Ion Ratio Lower Upper  
 266 100  
 264 72.6 50.3 75.5  
 268 54.8 52.4 78.6





#12

Phenanthrene

Concen: 0.556 ng/ul

RT: 17.05 min Scan# 3679

Delta R.T. 0.00 min

Lab File: BN012220.D

Acq: 15 Oct 2020 07:10

Instrument :

BNA\_N

ClientSampleId :

C0AP4DL

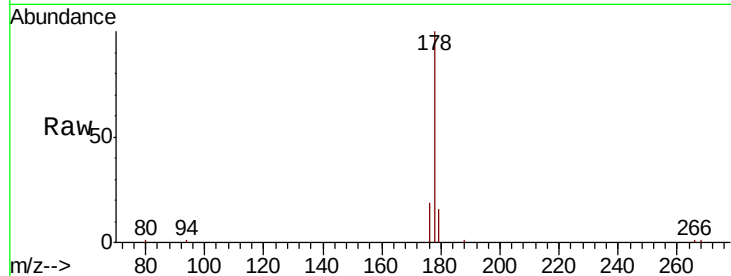
Tot Ion:178 Resp: 20783

Ion Ratio Lower Upper

178 100

179 16.2 13.4 20.2

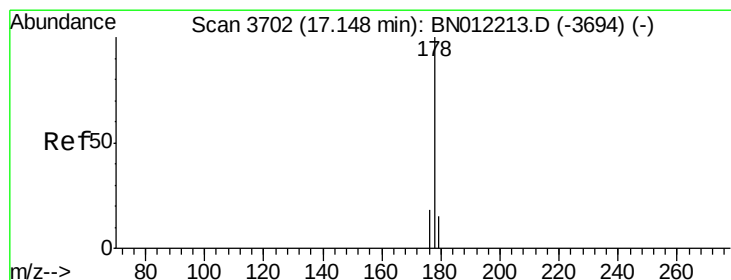
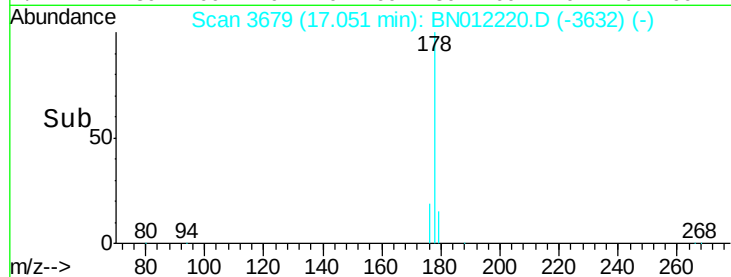
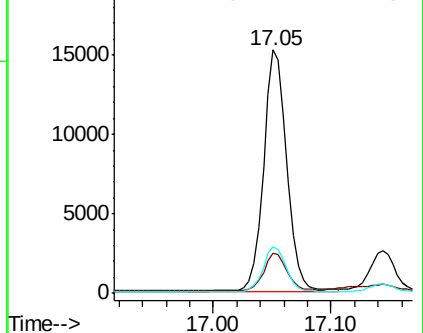
176 19.1 15.7 23.5



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: 0.111 ng/ul

RT: 17.14 min Scan# 3701

Delta R.T. -0.00 min

Lab File: BN012220.D

Acq: 15 Oct 2020 07:10

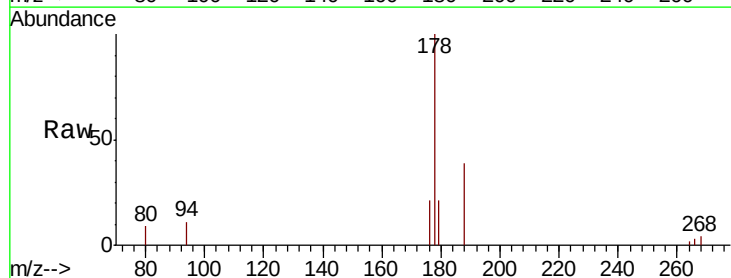
Tgt Ion:178 Resp: 3558

Ion Ratio Lower Upper

178 100

179 21.3 13.9 20.9#

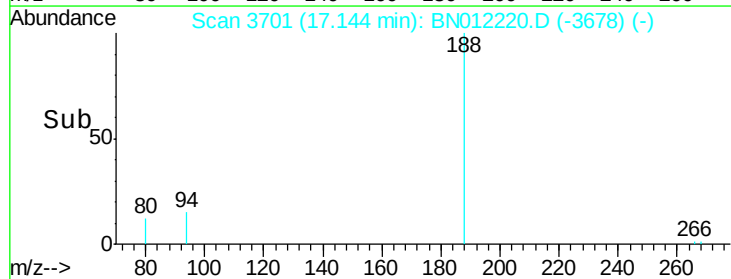
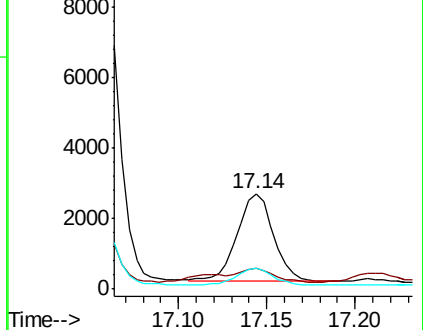
176 21.4 15.4 23.0

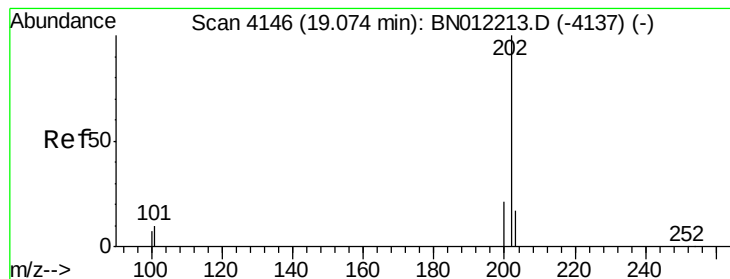


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#15

Fluoranthene

Concen: 0.710 ng/ul

RT: 19.07 min Scan# 4146

Delta R.T. 0.00 min

Lab File: BN012220.D

Acq: 15 Oct 2020 07:10

Instrument :

BNA\_N

ClientSampleId :

C0AP4DL

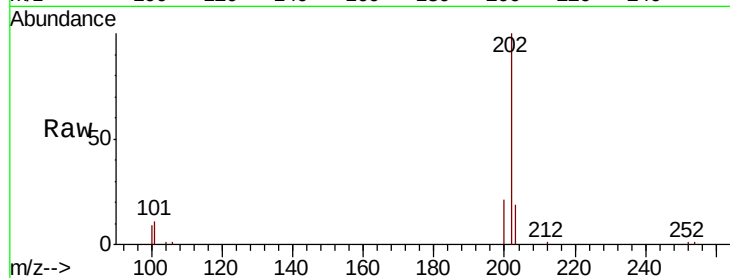
Tot Ion:202 Resp: 31073

Ion Ratio Lower Upper

202 100

101 11.5 0.0 31.0

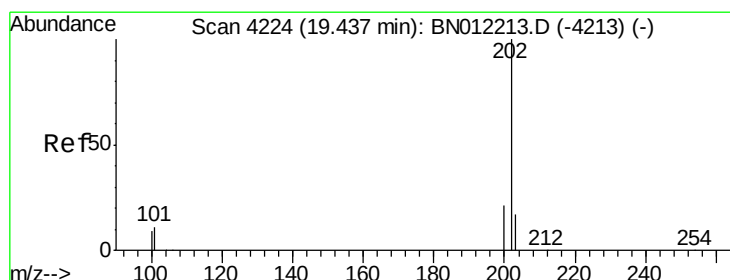
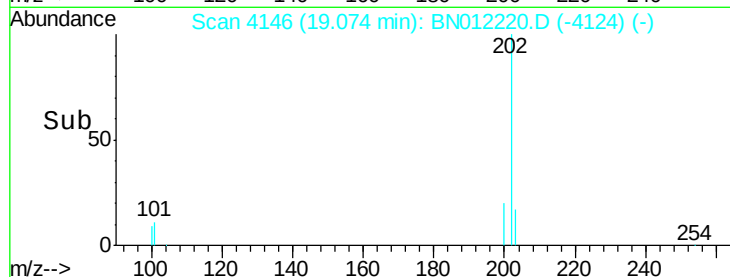
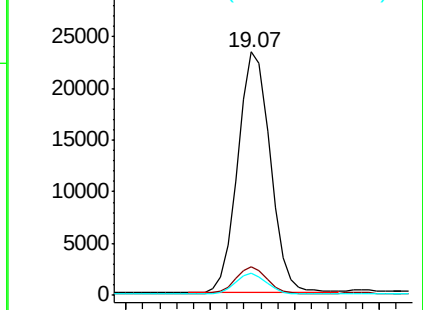
100 8.9 0.0 28.7



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

Pyrene

Concen: 0.623 ng/ul

RT: 19.44 min Scan# 4225

Delta R.T. 0.00 min

Lab File: BN012220.D

Acq: 15 Oct 2020 07:10

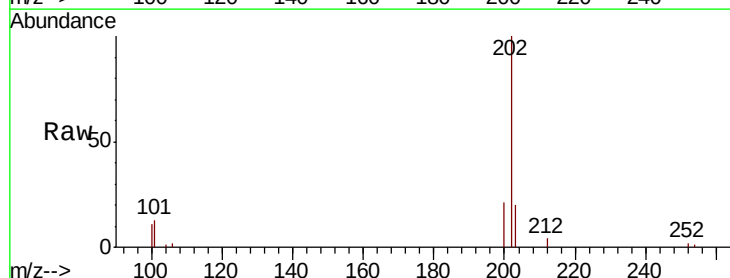
Tgt Ion:202 Resp: 26833

Ion Ratio Lower Upper

202 100

101 12.9 9.9 14.9

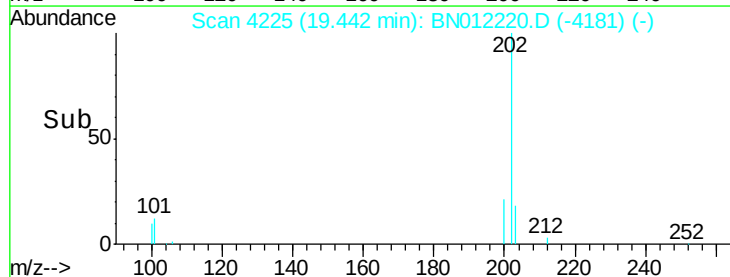
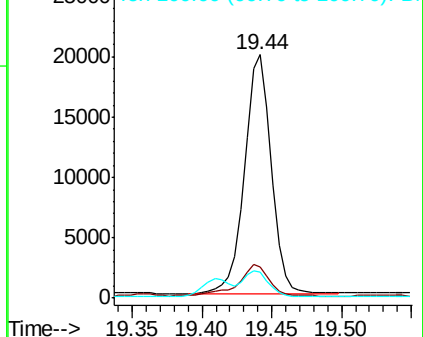
100 10.6 8.0 12.0

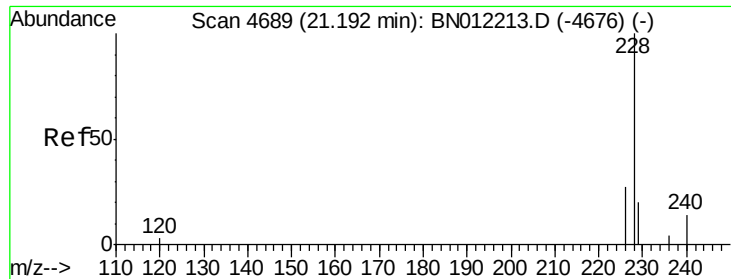


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#18

Benzo(a)anthracene

Concen: 0.379 ng/ul

RT: 21.20 min Scan# 4690

Delta R.T. 0.00 min

Lab File: BN012220.D

Acq: 15 Oct 2020 07:10

Instrument :

BNA\_N

ClientSampleId :

C0AP4DL

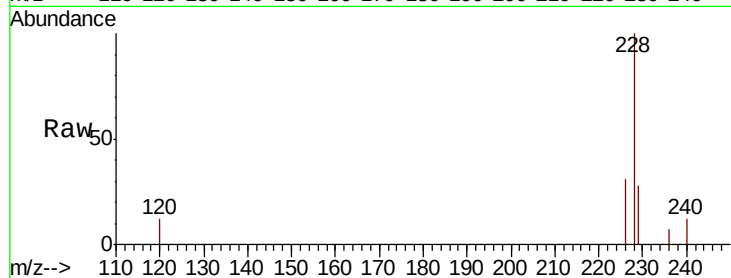
Tot Ion:228 Resp: 13422

Ion Ratio Lower Upper

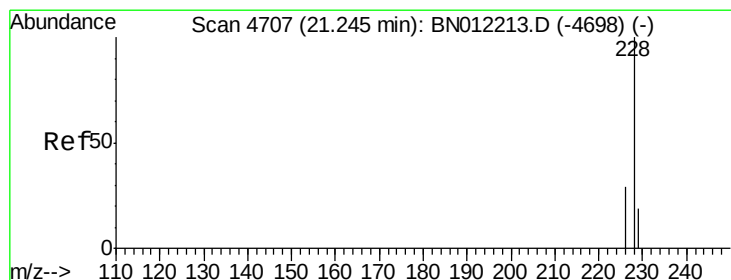
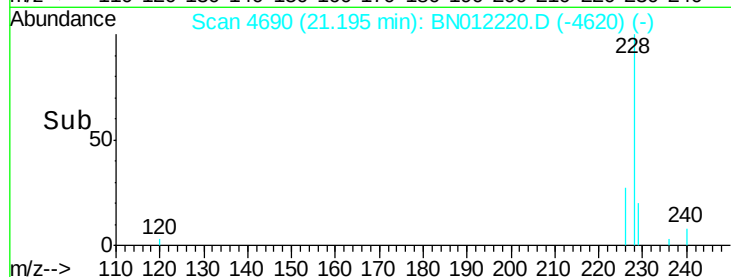
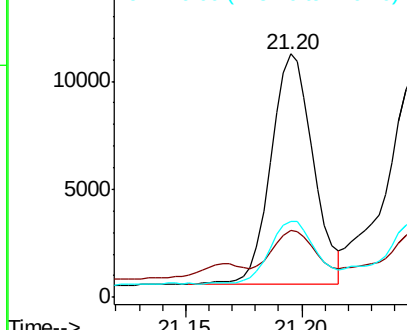
228 100

229 27.6 15.8 23.8#

226 31.4 22.6 33.8



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: 0.317 ng/ul

RT: 21.25 min Scan# 4708

Delta R.T. 0.00 min

Lab File: BN012220.D

Acq: 15 Oct 2020 07:10

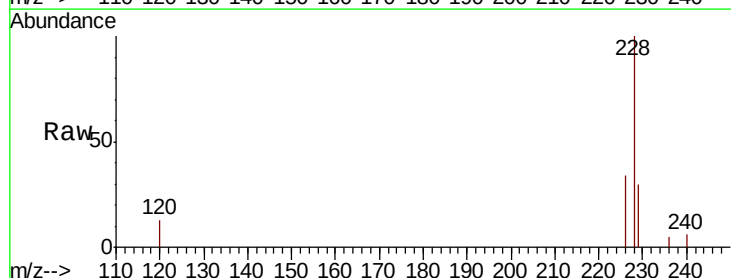
Tgt Ion:228 Resp: 13688

Ion Ratio Lower Upper

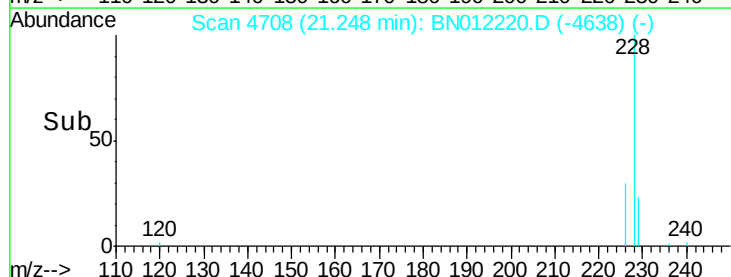
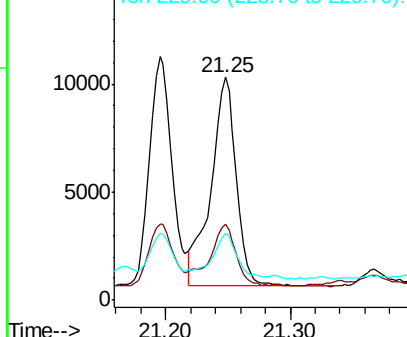
228 100

226 34.3 24.6 37.0

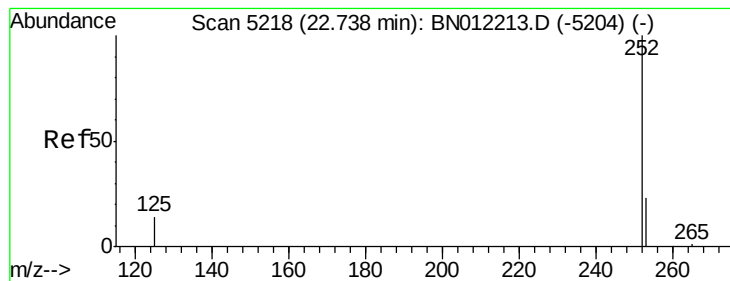
229 30.2 17.0 25.6#



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







#21

Benzo(b)fluoranthene

Concen: 0.617 ng/ul

RT: 22.75 min Scan# 5221

Delta R.T. 0.01 min

Lab File: BN012220.D

Acq: 15 Oct 2020 07:10

Instrument :

BNA\_N

ClientSampleId :

C0AP4DL

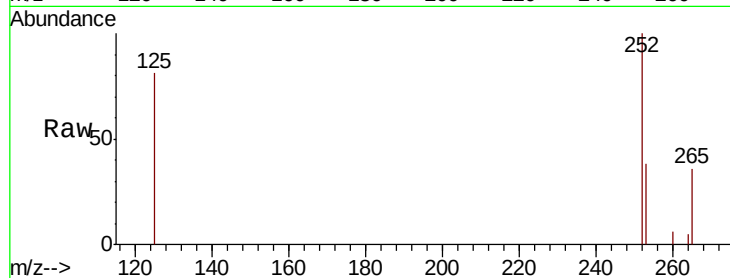
Tot Ion:252 Resp: 24546

Ion Ratio Lower Upper

252 100

253 38.1 0.0 61.6

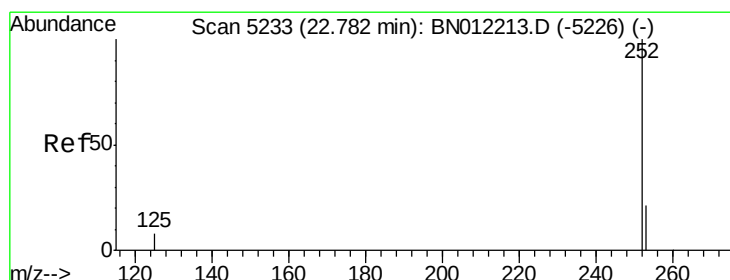
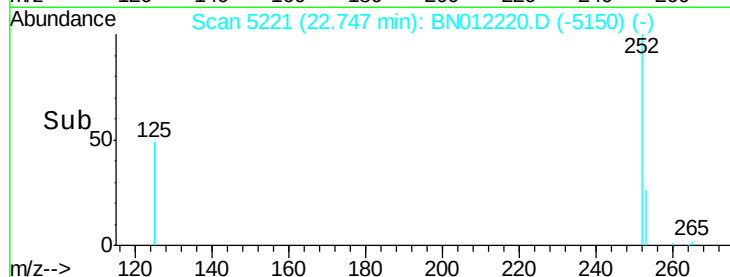
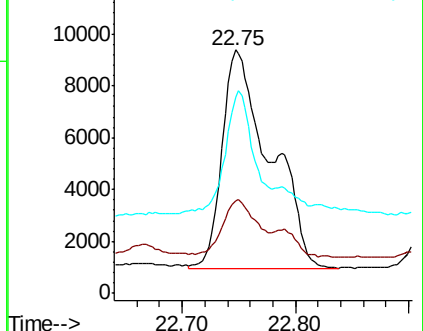
125 80.7 0.0 36.8#



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



#22

Benzo(k)fluoranthene

Concen: 0.557 ng/ul

RT: 22.75 min Scan# 5221

Delta R.T. -0.03 min

Lab File: BN012220.D

Acq: 15 Oct 2020 07:10

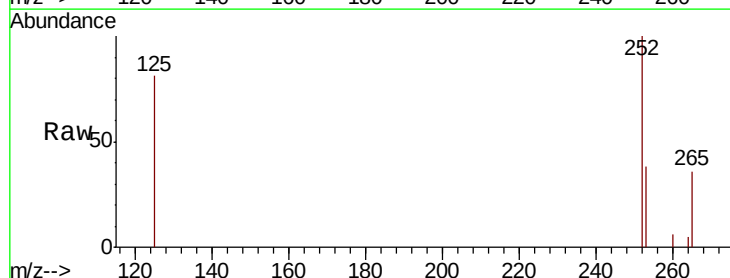
Tgt Ion:252 Resp: 24546

Ion Ratio Lower Upper

252 100

253 38.1 24.4 36.6#

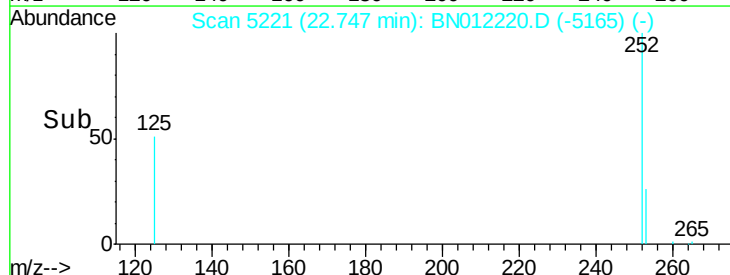
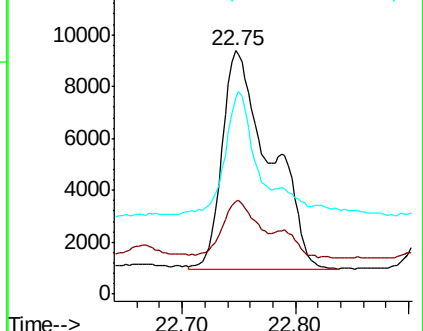
125 80.7 12.9 19.3#

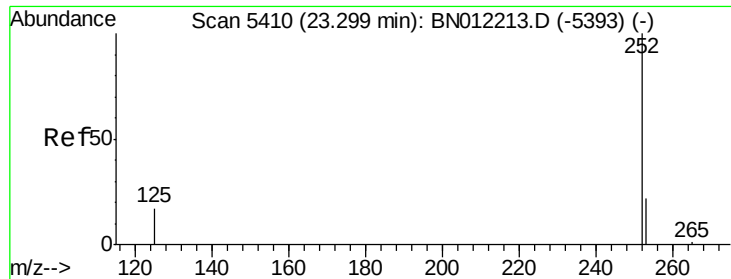


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 0.307 ng/ul

RT: 23.31 min Scan# 5412

Delta R.T. 0.01 min

Lab File: BN012220.D

Acq: 15 Oct 2020 07:10

Instrument :

BNA\_N

ClientSampleId :

C0AP4DL

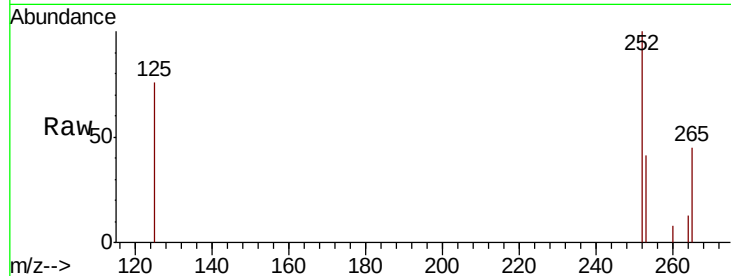
Tot Ion:252 Resp: 11886

Ion Ratio Lower Upper

252 100

253 40.8 27.0 40.4#

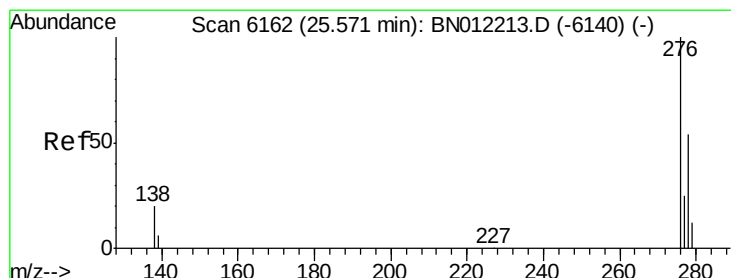
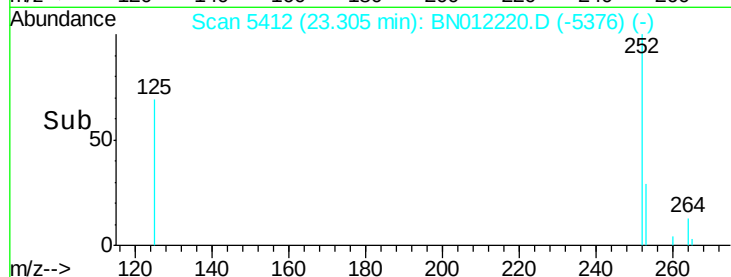
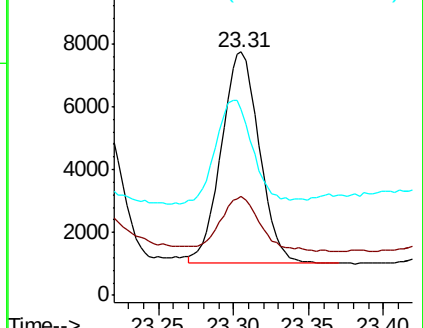
125 76.2 18.8 28.2#



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: 0.189 ng/ul

RT: 25.58 min Scan# 6166

Delta R.T. 0.01 min

Lab File: BN012220.D

Acq: 15 Oct 2020 07:10

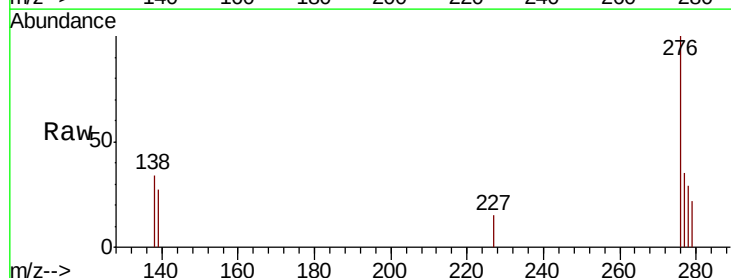
Tgt Ion:276 Resp: 9386

Ion Ratio Lower Upper

276 100

138 21.3 0.0 0.0#

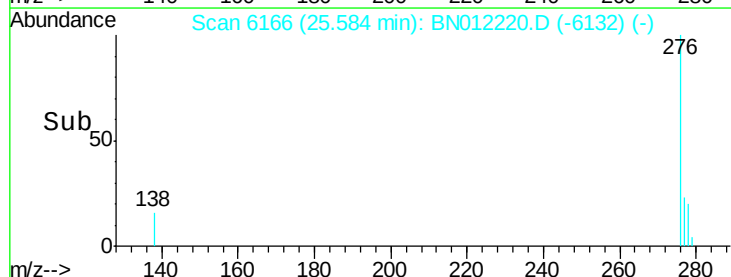
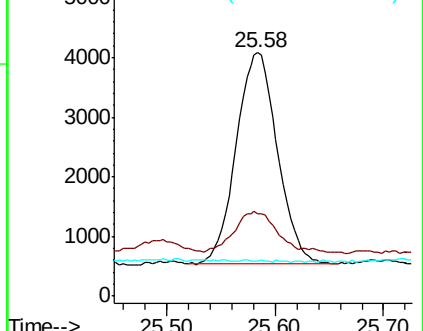
227 0.2 0.0 0.0#

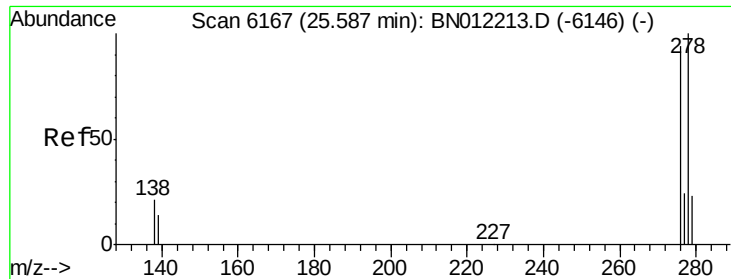


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 227.00 (226.70 to 227.70): E

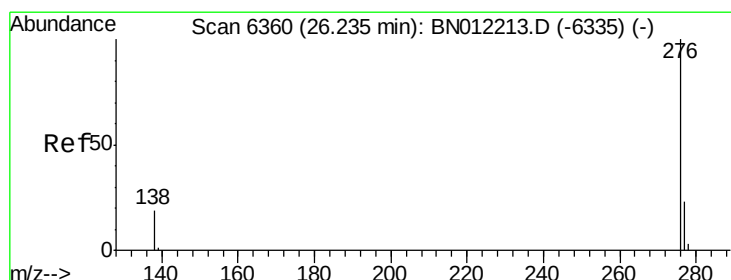
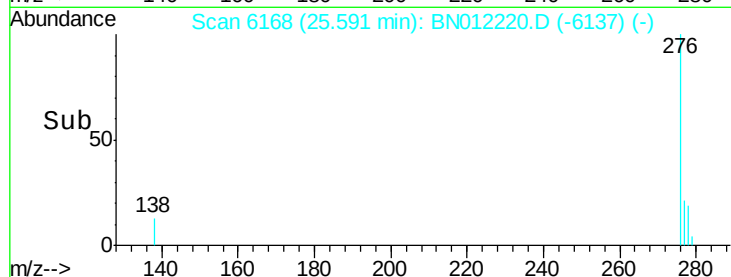
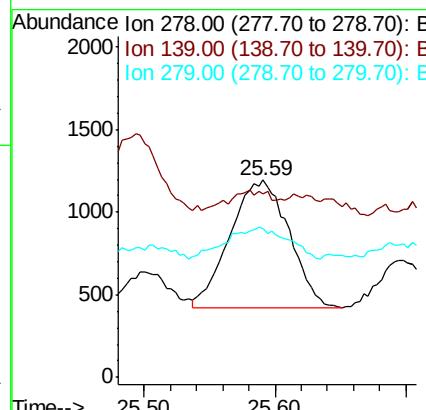
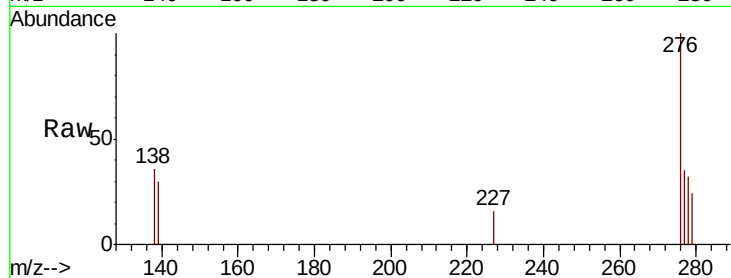




#25  
Dibenzo(a,h)anthracene  
Concen: 0.061 ng/ul  
RT: 25.59 min Scan# 6168  
Delta R.T. 0.00 min  
Lab File: BN012220.D  
Acq: 15 Oct 2020 07:10

Instrument :  
BNA\_N  
ClientSampleId :  
C0AP4DL

Tot Ion:278 Resp: 2415  
Ion Ratio Lower Upper  
278 100  
139 93.0 15.7 23.5#  
279 75.6 26.0 39.0#



#26  
Benzo(g,h,i)perylene  
Concen: 0.199 ng/ul  
RT: 26.25 min Scan# 6365  
Delta R.T. 0.02 min  
Lab File: BN012220.D  
Acq: 15 Oct 2020 07:10

Tgt Ion:276 Resp: 9073  
Ion Ratio Lower Upper  
276 100  
138 38.2 17.1 25.7#  
277 36.1 21.1 31.7#

