

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101420\  
 Data File : BN012242.D  
 Acq On : 15 Oct 2020 21:37  
 Operator : CG/JU  
 Sample : L4235-09  
 Misc :  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :

Quant Time: Oct 16 01:27:53 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 : Fri Oct 16 01:19:50 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.62  | 152  | 1740     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.39 | 136  | 7274     | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.26 | 164  | 4233     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.01 | 188  | 8898     | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.21 | 240  | 7551     | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.40 | 264  | 7562     | 0.40 | ng/ul | 0.00     |

|                             |       |     |      |      |       |      |
|-----------------------------|-------|-----|------|------|-------|------|
| System Monitoring Compounds |       |     |      |      |       |      |
| 4) 2-Methylnaphthalene-d10  | 11.99 | 152 | 1645 | 0.15 | ng/ul | 0.00 |
| 14) Fluoranthene-d10        | 19.04 | 212 | 3849 | 0.16 | ng/ul | 0.00 |

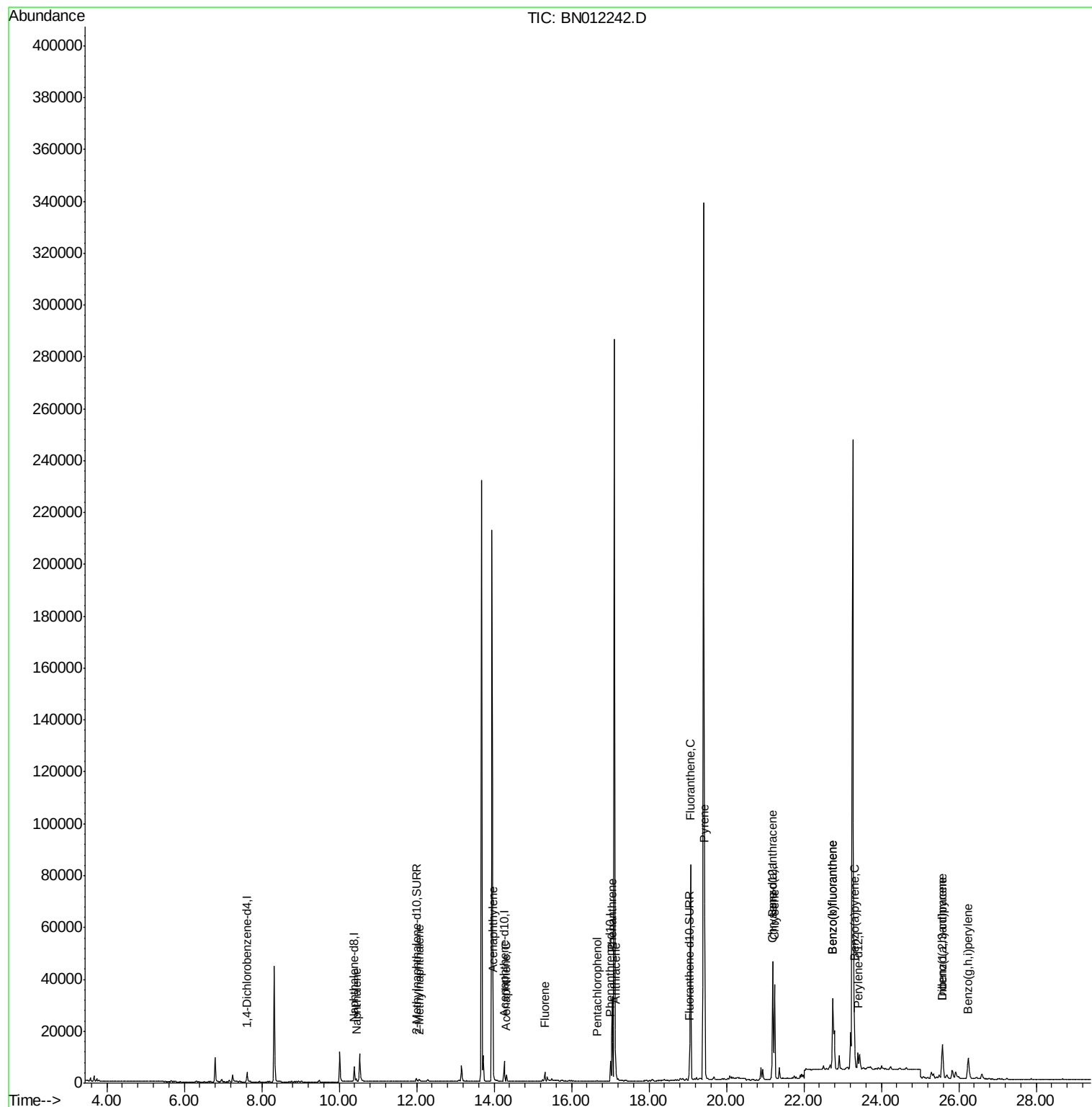
|                            |       |     |       |        |        |     |
|----------------------------|-------|-----|-------|--------|--------|-----|
| Target Compounds           |       |     |       | Ovalue |        |     |
| 3) Naphthalene             | 10.44 | 128 | 1094  | 0.052  | ng/ul# | 86  |
| 5) 2-Methylnaphthalene     | 12.06 | 142 | 567   | 0.043  | ng/ul  | 97  |
| 7) Acenaphthylene          | 13.98 | 152 | 2093  | 0.114  | ng/ul# | 88  |
| 8) Acenaphthene            | 14.32 | 153 | 1493  | 0.096  | ng/ul  | 97  |
| 9) Fluorene                | 15.31 | 166 | 2236  | 0.129  | ng/ul# | 99  |
| 11) Pentachlorophenol      | 16.66 | 266 | 272   | 0.106  | ng/ul  | 97  |
| 12) Phenanthrene           | 17.05 | 178 | 33177 | 1.170  | ng/ul  | 98  |
| 13) Anthracene             | 17.14 | 178 | 7926  | 0.326  | ng/ul  | 100 |
| 15) Fluoranthene           | 19.07 | 202 | 70659 | 2.130  | ng/ul  | 98  |
| 17) Pyrene                 | 19.44 | 202 | 58488 | 1.718  | ng/ul  | 99  |
| 18) Benzo(a)anthracene     | 21.19 | 228 | 36958 | 1.321  | ng/ul  | 99  |
| 19) Chrysene               | 21.25 | 228 | 34444 | 1.011  | ng/ul  | 98  |
| 21) Benzo(b)fluoranthene   | 22.75 | 252 | 59577 | 1.951  | ng/ul  | 92  |
| 22) Benzo(k)fluoranthene   | 22.75 | 252 | 59577 | 1.762  | ng/ul  | 93  |
| 23) Benzo(a)pyrene         | 23.30 | 252 | 29193 | 0.982  | ng/ul# | 87  |
| 24) Indeno(1,2,3-cd)pyrene | 25.58 | 276 | 19646 | 0.515  | ng/ul# | 100 |
| 25) Dibenzo(a,h)anthracene | 25.58 | 278 | 5541  | 0.181  | ng/ul# | 84  |
| 26) Benzo(g,h,i)perylene   | 26.24 | 276 | 16167 | 0.462  | ng/ul  | 97  |

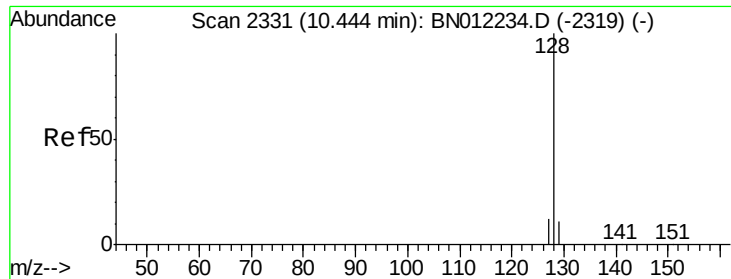
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 16 01:19:50 2020  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.052 ng/ul

RT: 10.44 min Scan# 2330

Delta R.T. -0.01 min

Lab File: BN012242.D

Acq: 15 Oct 2020 21:37

Instrument :

BNA\_N

ClientSampleId :

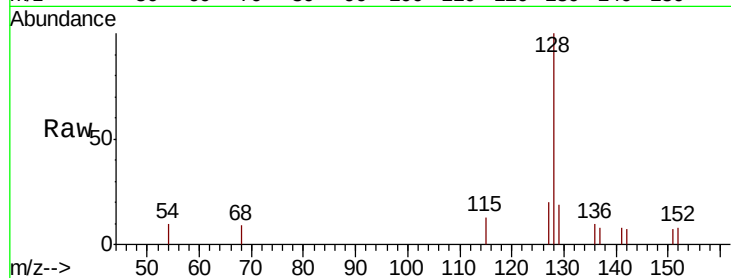
Tot Ion:128 Resp: 1094

Ion Ratio Lower Upper

128 100

129 19.3 10.3 15.5#

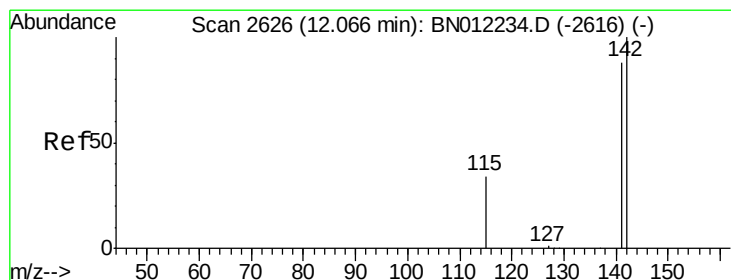
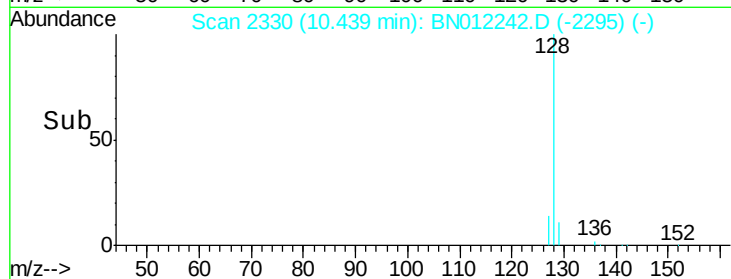
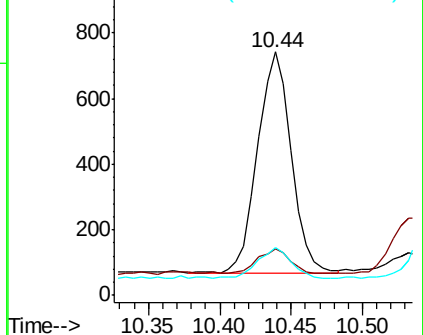
127 19.7 11.9 17.9#



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: 0.043 ng/ul

RT: 12.06 min Scan# 2625

Delta R.T. -0.01 min

Lab File: BN012242.D

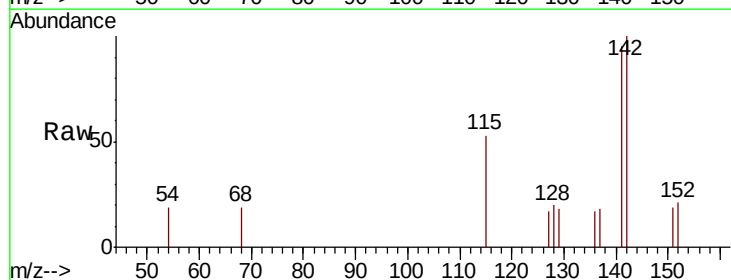
Acq: 15 Oct 2020 21:37

Tgt Ion:142 Resp: 567

Ion Ratio Lower Upper

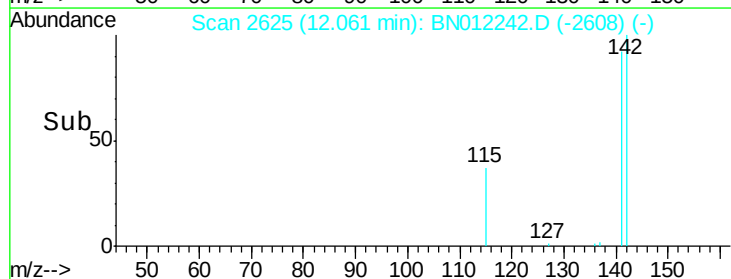
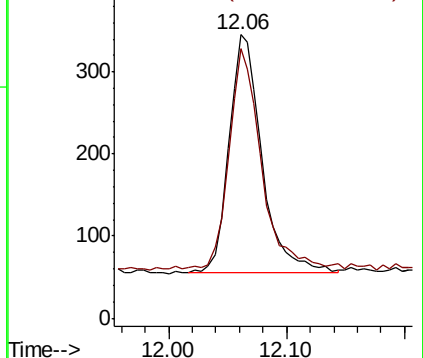
142 100

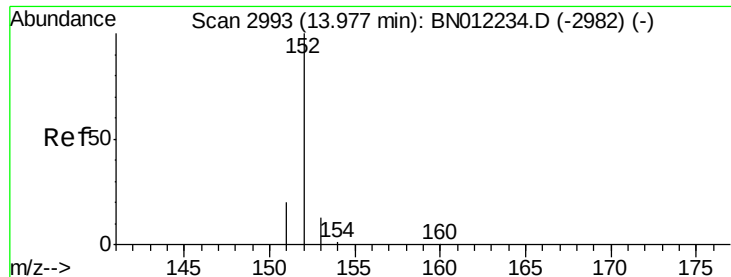
141 92.2 71.7 107.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.114 ng/ul

RT: 13.98 min Scan# 2993

Delta R.T. 0.00 min

Lab File: BN012242.D

Acq: 15 Oct 2020 21:37

Instrument :

BNA\_N

ClientSampled :

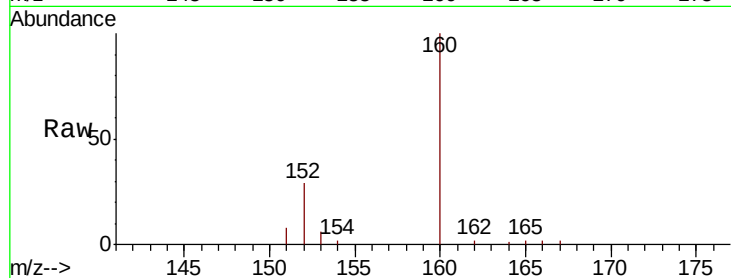
Tot Ion:152 Resp: 2093

Ion Ratio Lower Upper

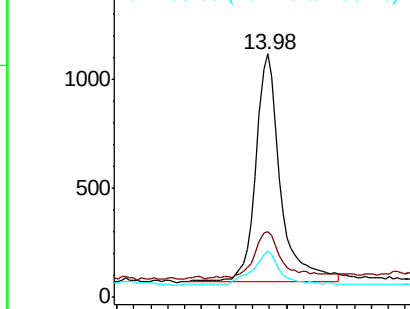
152 100

151 26.9 16.7 25.1#

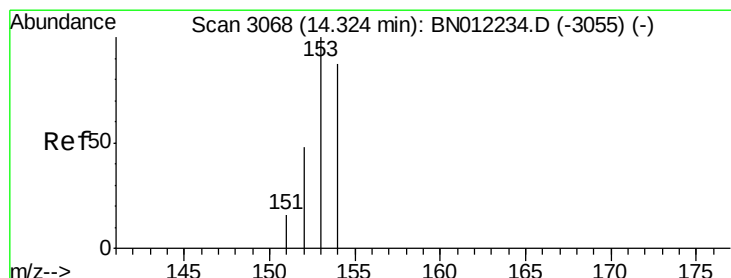
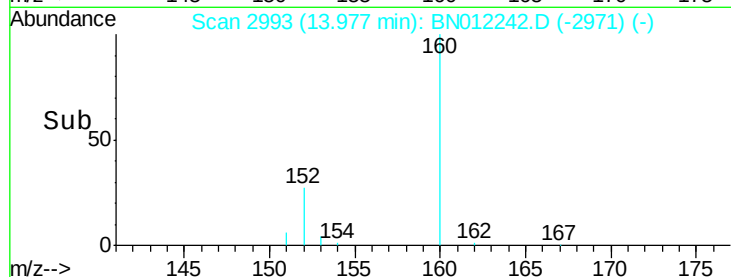
153 19.1 11.8 17.8#



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



Time--> 13.80 13.90 14.00 14.10



#8

Acenaphthene

Concen: 0.096 ng/ul

RT: 14.32 min Scan# 3067

Delta R.T. -0.00 min

Lab File: BN012242.D

Acq: 15 Oct 2020 21:37

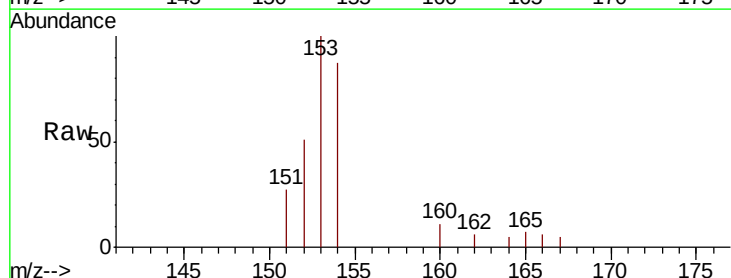
Tgt Ion:153 Resp: 1493

Ion Ratio Lower Upper

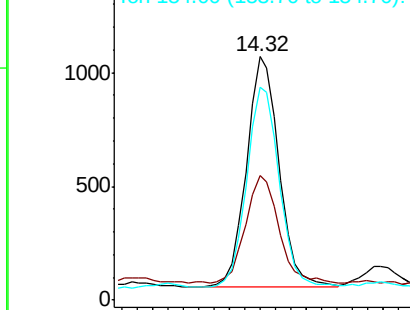
153 100

152 51.0 38.2 57.2

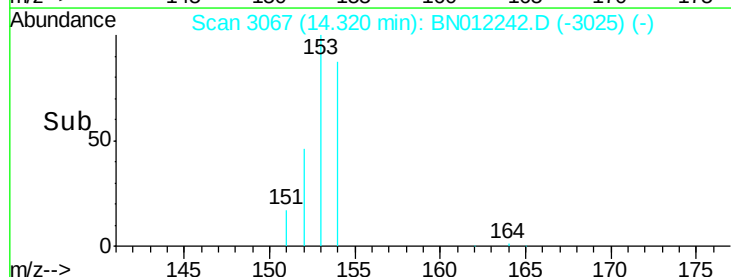
154 87.3 71.1 106.7

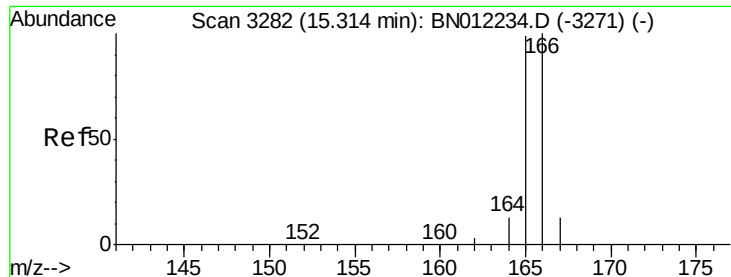


Abundance Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E  
Ion 154.00 (153.70 to 154.70): E



Time--> 14.25 14.30 14.35 14.40

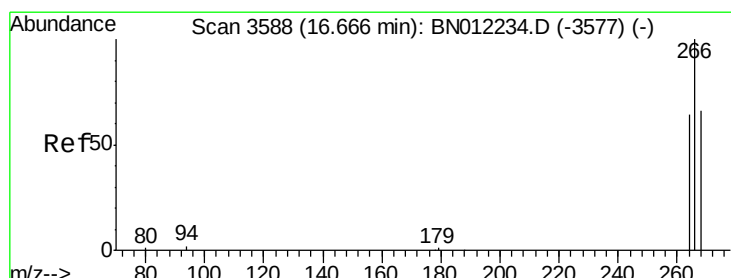
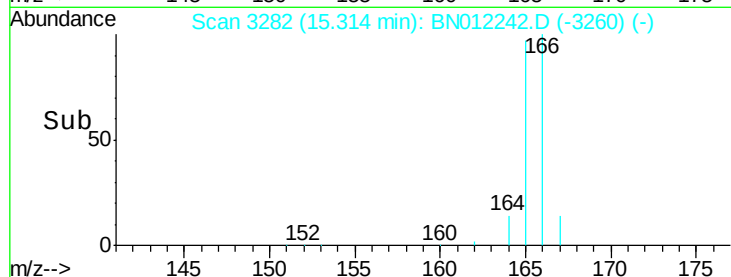
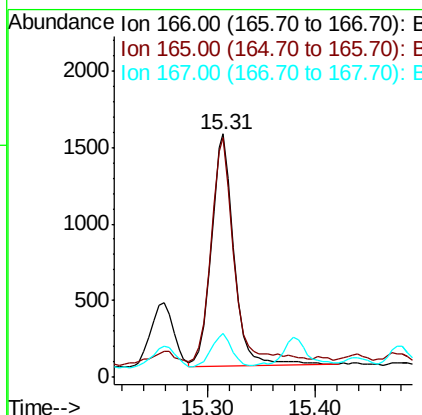
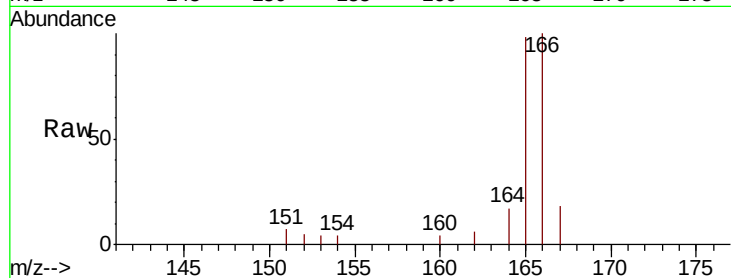




#9  
**Fluorene**  
 Concen: 0.129 ng/ul  
 RT: 15.31 min Scan# 3282  
 Delta R.T. 0.00 min  
 Lab File: BN012242.D  
 Acq: 15 Oct 2020 21:37

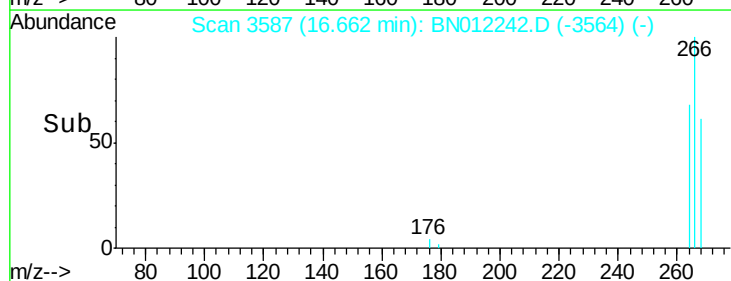
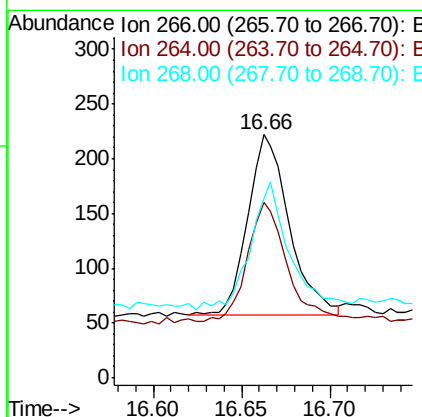
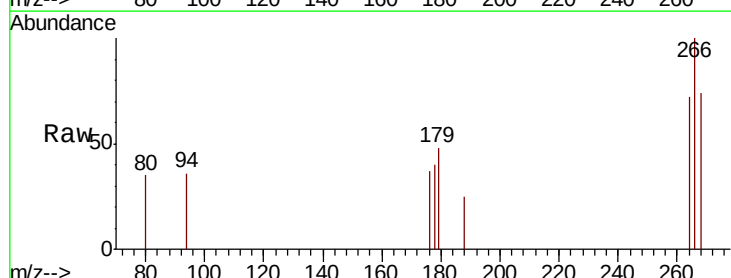
Instrument :  
 BNA\_N  
 ClientSampleId :

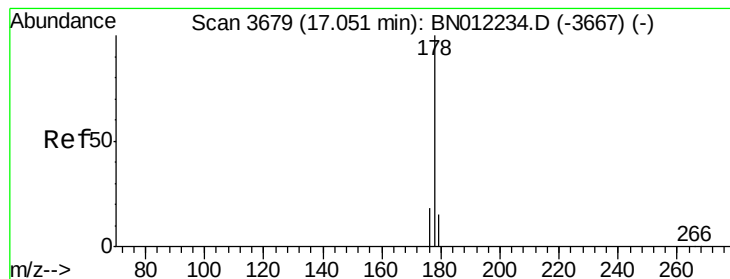
Tot Ion:166 Resp: 2236  
 Ion Ratio Lower Upper  
 166 100  
 165 98.2 78.6 118.0  
 167 18.2 11.9 17.9#



#11  
**Pentachlorophenol**  
 Concen: 0.106 ng/ul  
 RT: 16.66 min Scan# 3587  
 Delta R.T. -0.00 min  
 Lab File: BN012242.D  
 Acq: 15 Oct 2020 21:37

Tgt Ion:266 Resp: 272  
 Ion Ratio Lower Upper  
 266 100  
 264 65.4 50.3 75.5  
 268 67.3 52.4 78.6





#12

Phenanthrene

Concen: 1.170 ng/ul

RT: 17.05 min Scan# 3678

Delta R.T. -0.00 min

Lab File: BN012242.D

Acq: 15 Oct 2020 21:37

Instrument :

BNA\_N

ClientSampleId :

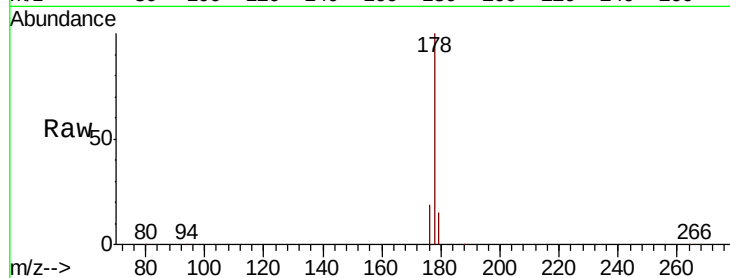
Tot Ion:178 Resp: 33177

Ion Ratio Lower Upper

178 100

179 15.3 13.4 20.2

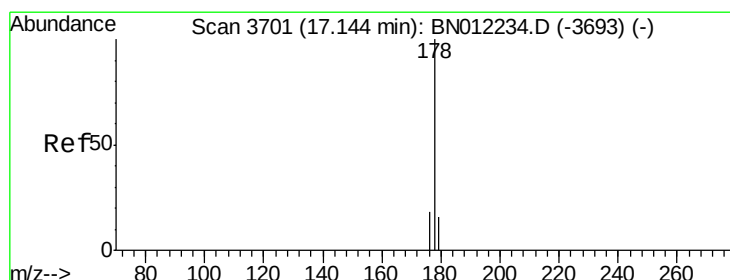
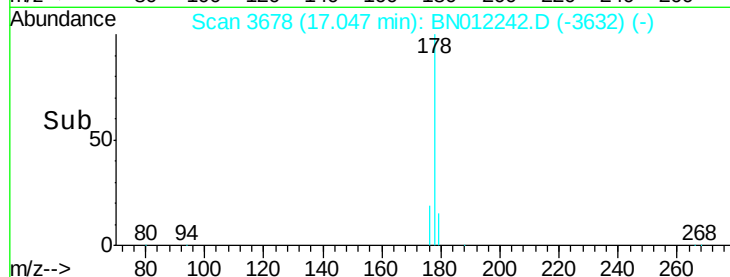
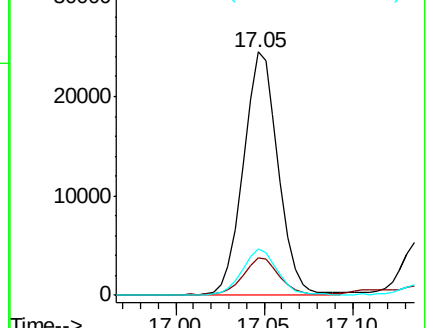
176 18.9 15.7 23.5



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: 0.326 ng/ul

RT: 17.14 min Scan# 3700

Delta R.T. -0.00 min

Lab File: BN012242.D

Acq: 15 Oct 2020 21:37

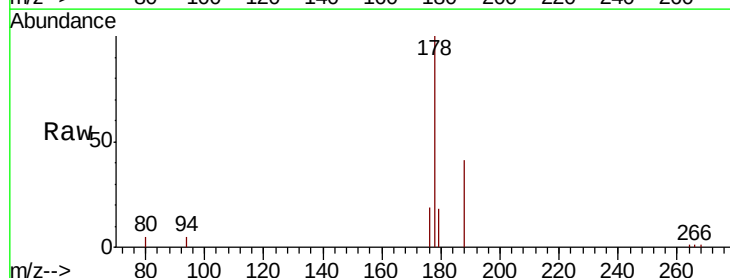
Tgt Ion:178 Resp: 7926

Ion Ratio Lower Upper

178 100

179 17.6 13.9 20.9

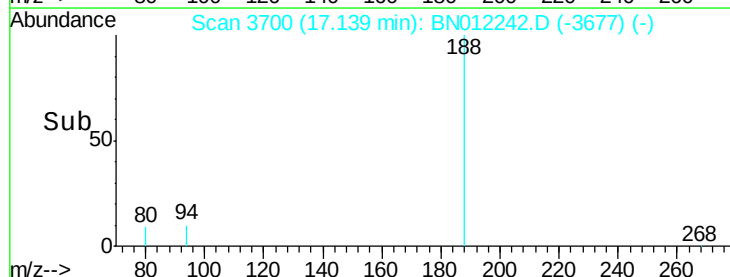
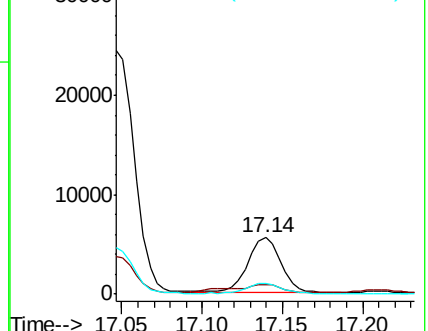
176 19.4 15.4 23.0

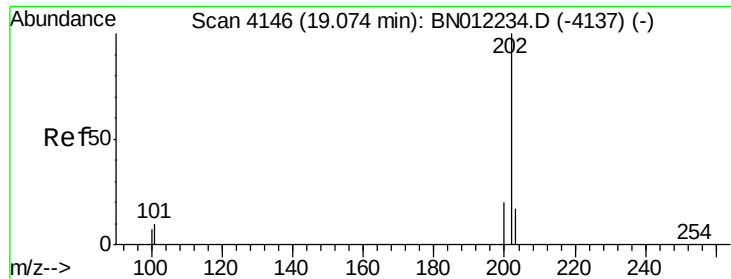


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

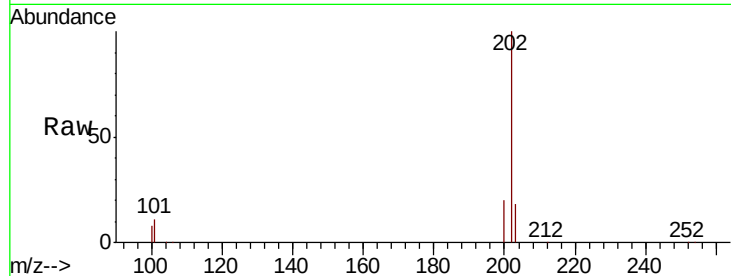




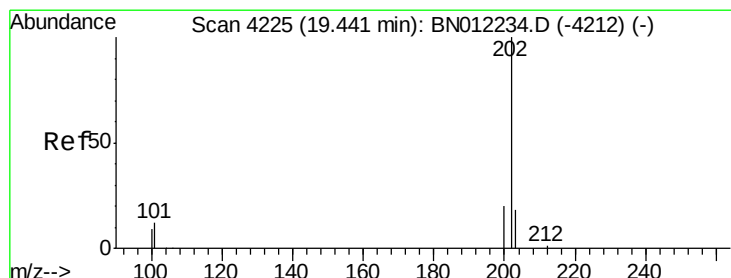
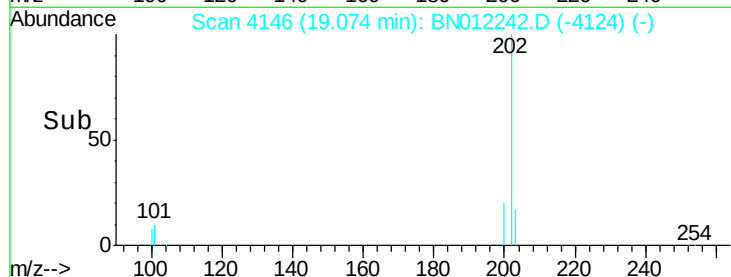
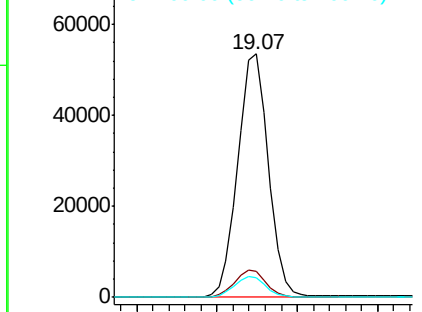
#15  
**Fluoranthene**  
 Concen: 2.130 ng/ul  
 RT: 19.07 min Scan# 4146  
 Delta R.T. 0.00 min  
 Lab File: BN012242.D  
 Acq: 15 Oct 2020 21:37

Instrument :  
 BNA\_N  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.6  | 0.0   | 31.0  |
| 100     | 7.9   | 0.0   | 28.7  |

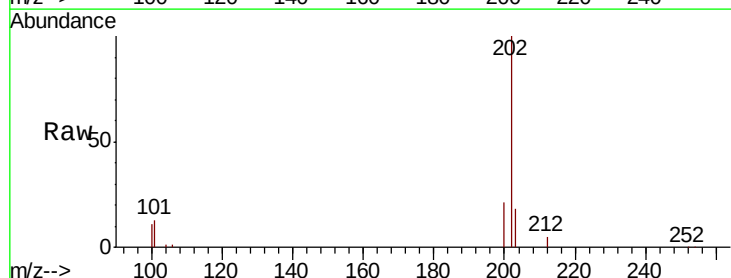


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 100.00 (99.70 to 100.70): B

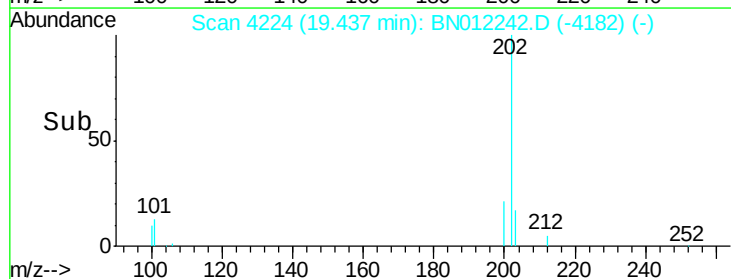
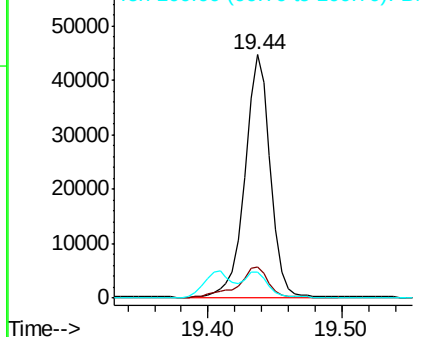


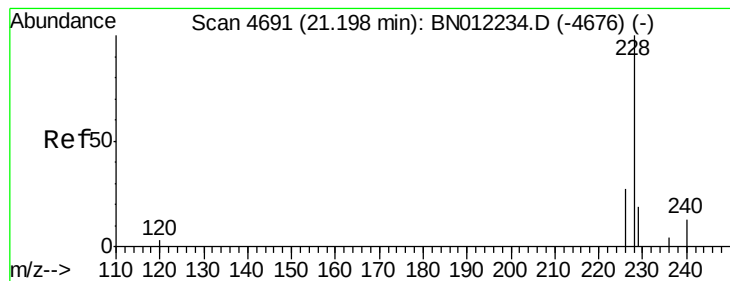
#17  
**Pyrene**  
 Concen: 1.718 ng/ul  
 RT: 19.44 min Scan# 4224  
 Delta R.T. -0.00 min  
 Lab File: BN012242.D  
 Acq: 15 Oct 2020 21:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.8  | 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: 1.321 ng/ul

RT: 21.19 min Scan# 4690

Delta R.T. -0.00 min

Lab File: BN012242.D

Acq: 15 Oct 2020 21:37

Instrument :

BNA\_N

ClientSampleId :

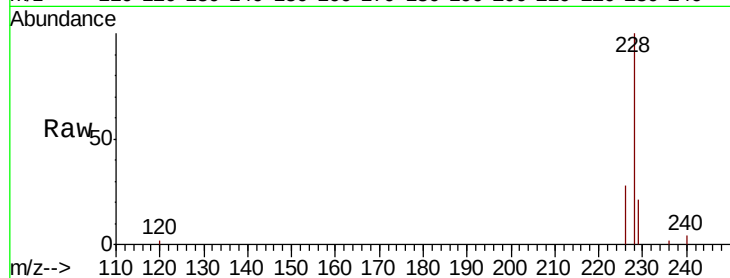
Tot Ion:228 Resp: 36958

Ion Ratio Lower Upper

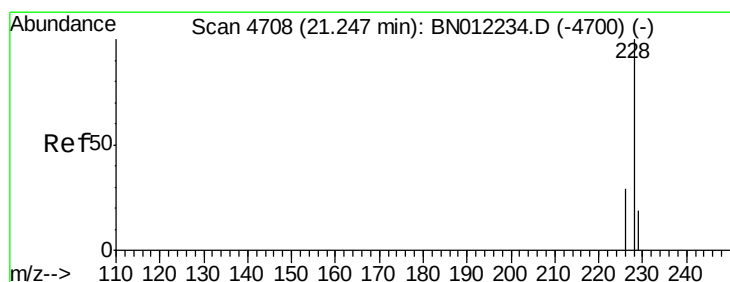
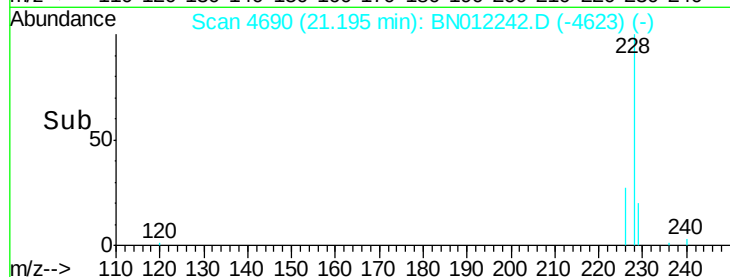
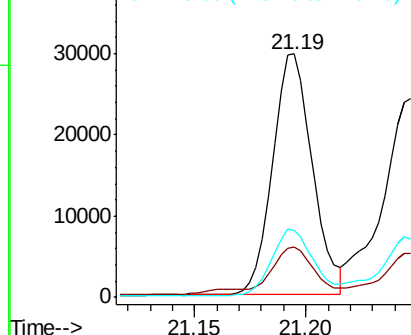
228 100

229 20.9 15.8 23.8

226 27.7 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: 1.011 ng/ul

RT: 21.25 min Scan# 4708

Delta R.T. 0.00 min

Lab File: BN012242.D

Acq: 15 Oct 2020 21:37

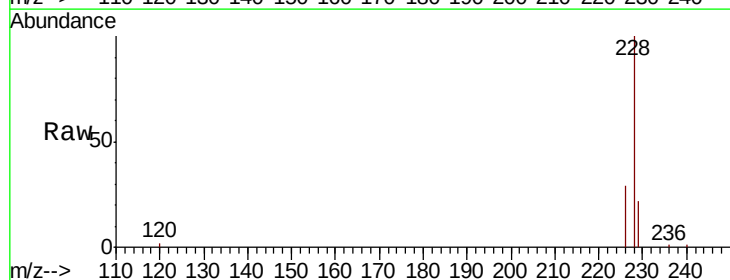
Tgt Ion:228 Resp: 34444

Ion Ratio Lower Upper

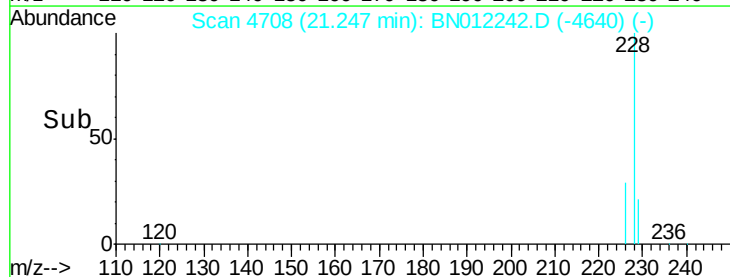
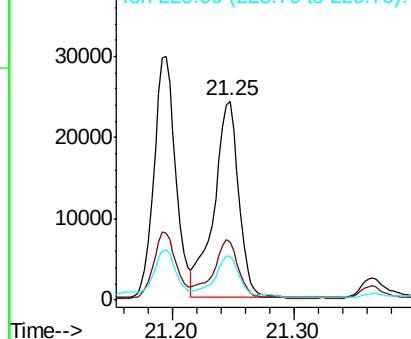
228 100

226 29.4 24.6 37.0

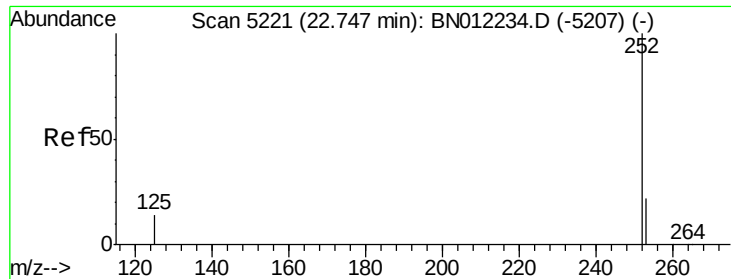
229 22.3 17.0 25.6



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



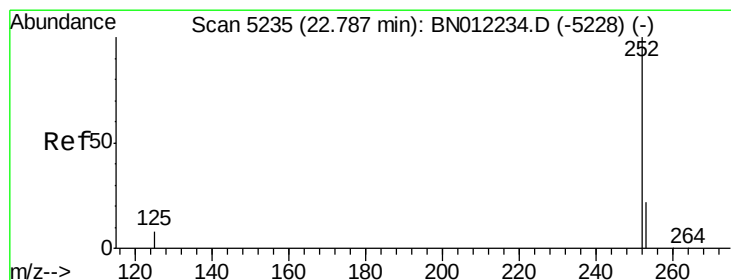
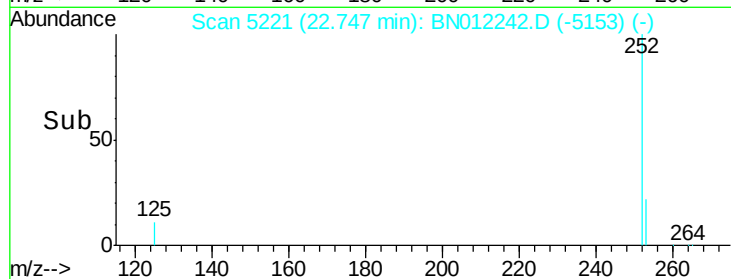
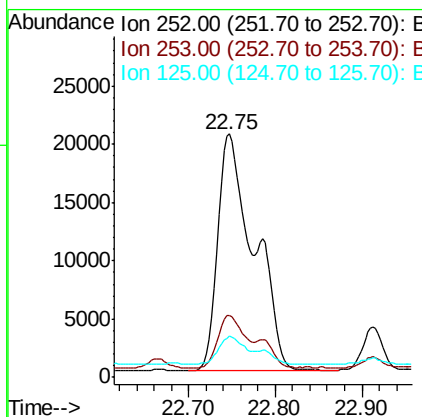
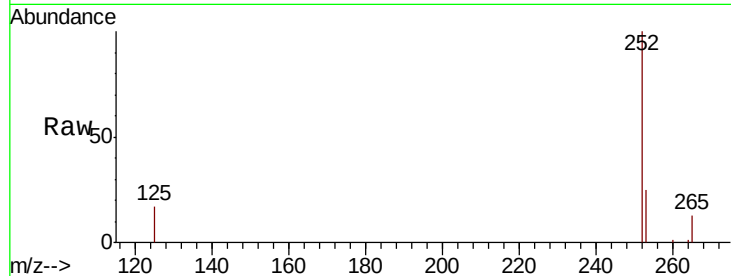




#21  
Benzo(b)fluoranthene  
Concen: 1.951 ng/ul  
RT: 22.75 min Scan# 5221  
Delta R.T. 0.00 min  
Lab File: BN012242.D  
Acq: 15 Oct 2020 21:37

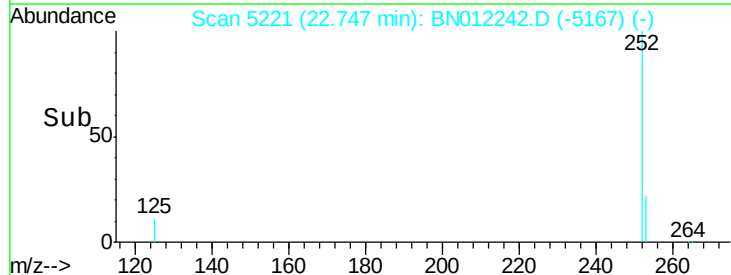
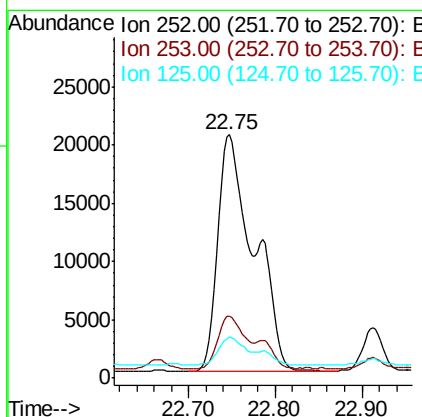
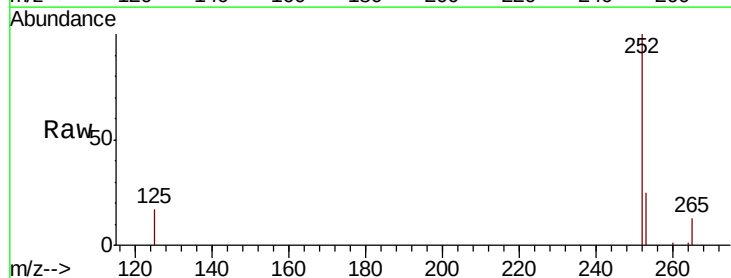
Instrument :  
BNA\_N  
ClientSampleId :

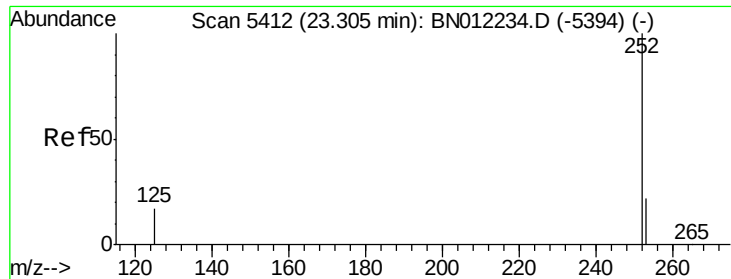
Tot Ion:252 Resp: 59577  
Ion Ratio Lower Upper  
252 100  
253 25.3 0.0 61.6  
125 16.8 0.0 36.8



#22  
Benzo(k)fluoranthene  
Concen: 1.762 ng/ul  
RT: 22.75 min Scan# 5221  
Delta R.T. -0.04 min  
Lab File: BN012242.D  
Acq: 15 Oct 2020 21:37

Tgt Ion:252 Resp: 59577  
Ion Ratio Lower Upper  
252 100  
253 25.3 24.4 36.6  
125 16.8 12.9 19.3





#23

Benzo(a)pyrene

Concen: 0.982 ng/ul

RT: 23.30 min Scan# 5411

Delta R.T. -0.00 min

Lab File: BN012242.D

Acq: 15 Oct 2020 21:37

Instrument :

BNA\_N

ClientSampleId :

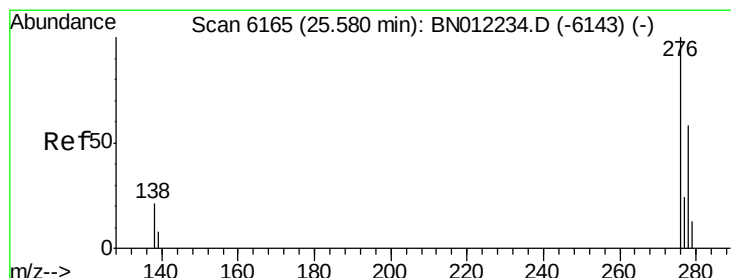
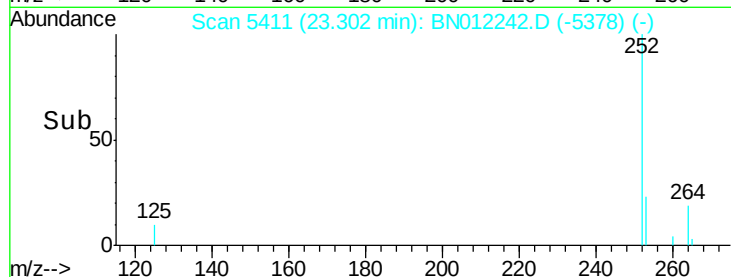
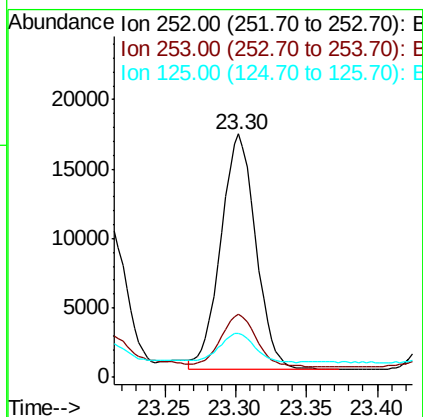
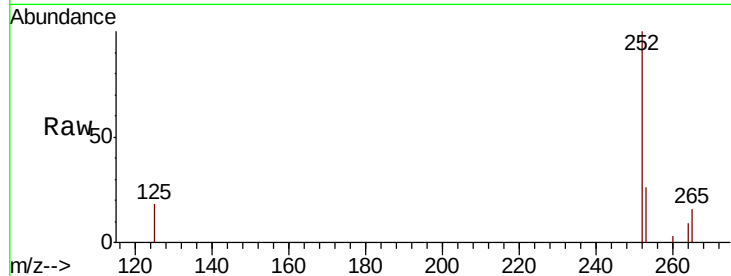
Tot Ion:252 Resp: 29193

Ion Ratio Lower Upper

252 100

253 25.7 27.0 40.4#

125 18.1 18.8 28.2#



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.515 ng/ul

RT: 25.58 min Scan# 6164

Delta R.T. -0.00 min

Lab File: BN012242.D

Acq: 15 Oct 2020 21:37

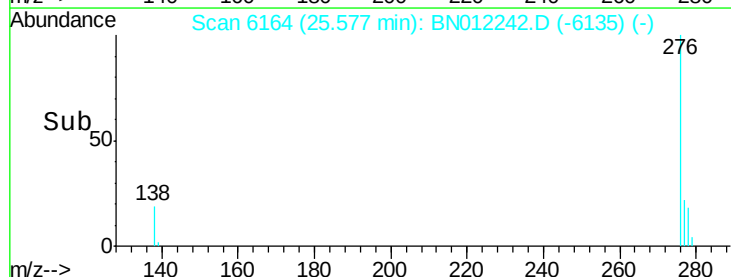
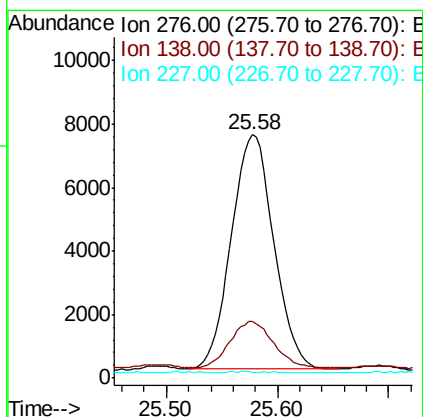
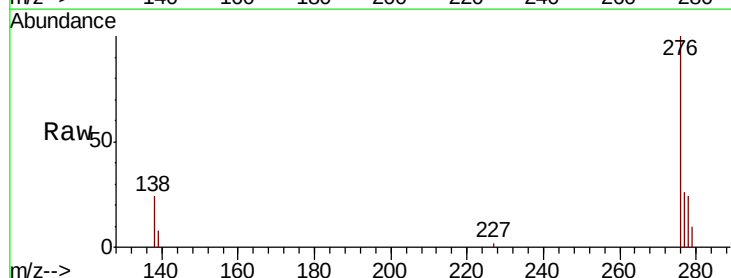
Tgt Ion:276 Resp: 19646

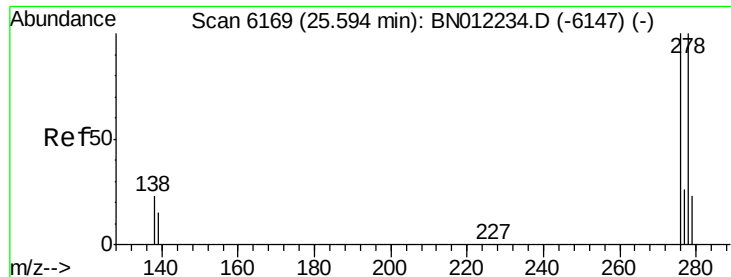
Ion Ratio Lower Upper

276 100

138 20.5 0.0 0.0#

227 0.1 0.0 0.0#

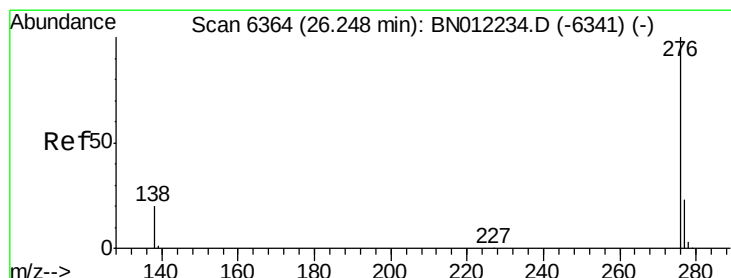
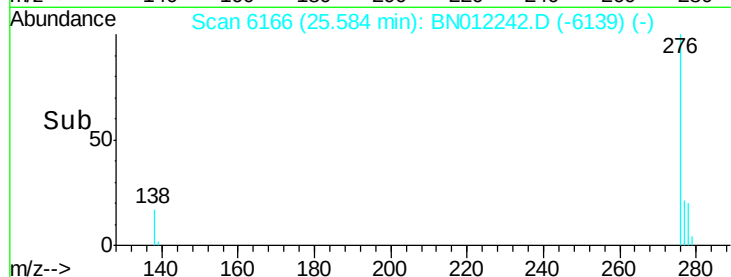
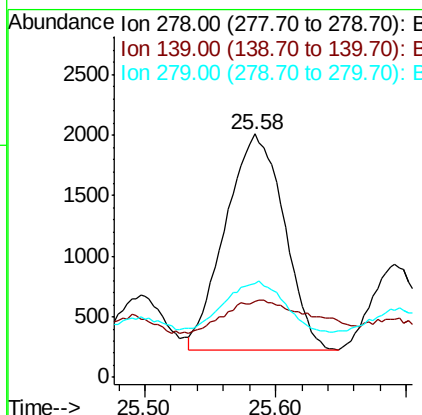
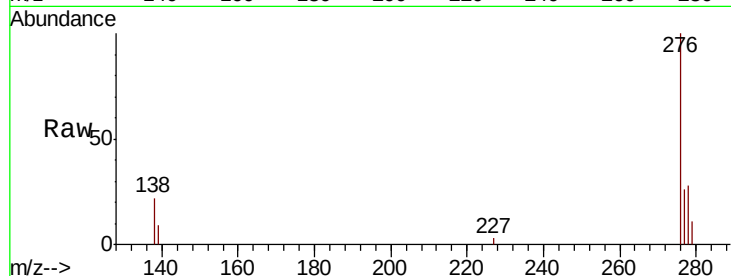




#25  
Dibenzo(a,h)anthracene  
Concen: 0.181 ng/ul  
RT: 25.58 min Scan# 6166  
Delta R.T. -0.01 min  
Lab File: BN012242.D  
Acq: 15 Oct 2020 21:37

Instrument :  
BNA\_N  
ClientSampleId :

Tot Ion:278 Resp: 5541  
Ion Ratio Lower Upper  
278 100  
139 31.0 15.7 23.5#  
279 38.5 26.0 39.0



#26  
Benzo(g,h,i)perylene  
Concen: 0.462 ng/ul  
RT: 26.24 min Scan# 6363  
Delta R.T. -0.00 min  
Lab File: BN012242.D  
Acq: 15 Oct 2020 21:37

Tgt Ion:276 Resp: 16167  
Ion Ratio Lower Upper  
276 100  
138 24.4 17.1 25.7  
277 26.2 21.1 31.7

