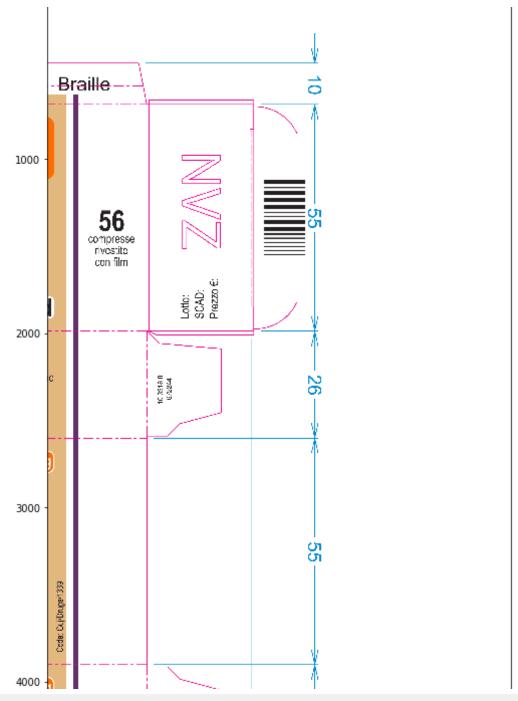
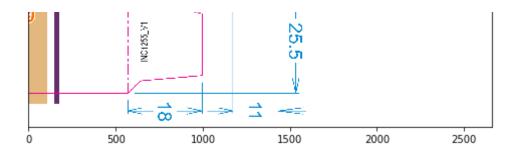
Image Analysis

```
In [74]: import numpy as np
             import matplotlib.pyplot as plt
             import imageio
             %matplotlib inline
In [75]: pic = imageio.imread('al 1.PNG')
             plt.figure(figsize = (15,15))
             plt.imshow(pic)
Out[75]: <matplotlib.image.AxesImage at 0x2326a29dc50>
              100
                             Each film coated tablet
                                                   28 Tablets
                                                             PRESCRIPTION DRUG
                             contains:
                                                                               Batch No.:
                             Sofosbuvir
                                       40.0mg
              200
                                                                               Mfg. Date:
                             Colours: Titanium Dioxide, fosbuvir Tablets
                                                                               Exp. Date:
                                    Red Iron Oxide.
                                                   400 mg
              300
                             DOSAGE: As directed by
                                                   MANAGE
                             the Physician.
                    mm
                                                                               Mfg. Lic. No.: 187
                                                                     400
mg
                             STORE UPTO 30°C.
              400
                                                                               Manufactured under license from
                                                                               ManageArtworks UC
                             KEEP OUT OF REACH
                             OF CHILDREN.
                                                                               Manufactured by:
                                                                               Karomi Inc, Number 5
              500
                             Please read the enclosed
                                                                               Independence Way,
                             package insert for dosage
                                                                               Princeton, NJ 08540.
                                                                      ( MANAGE
                             and administration.
              600
                                                            95 mm
              700
                                          400
                                                        600
                                                                     800
                                                                                  1000
                                                                                               1200
                                                                                                            1400
In [76]: type(pic)
```

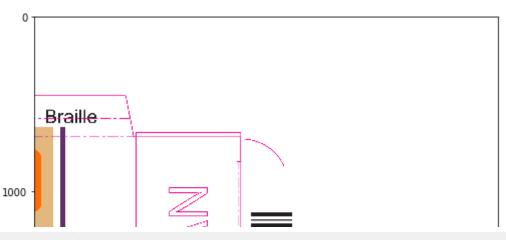
```
Out[76]: imageio.core.util.Array
In [77]: pic.shape
Out[77]: (712, 1461, 4)
In [78]: pic[640:700,135:1366,:]=[255,0,0,0]
            pic[87:616,0:120,:]=[255,0,0,0]
            plt.figure(figsize = (15,15))
            plt.imshow(pic)
Out[78]: <matplotlib.image.AxesImage at 0x2326a3042e8>
             100
                           Each film coated tablet
                                                28 Tablets
                                                         PRESCRIPTION DRUG
                           contains:
                                                                          Batch No.:
                           Sofosbuvir
                                      40.0mg
             200
                                                                          Mfg. Date:
                                               fosbuvir Tablets
                           Colours: Titanium Dioxide,
                                                                          Exp. Date:
                                  Red Iron Oxide.
                                                400 mg
             300
                           DOSAGE: As directed by
                                                MANAGE
                           the Physician.
                                                                          Mfg. Lic. No.: 187
                           STORE UPTO 30°C.
             400
                                                                          Manufactured under license from
                                                                          ManageArtworks UC
                           KEEP OUT OF REACH
                           OF CHILDREN.
                                                                          Manufactured by:
                                                                          Karomi Inc, Number 5
             500
                           Please read the enclosed
                                                                          Independence Way,
                           package insert for dosage
                                                                          Princeton, NJ 08540.
                                                                   MANAGE
                           and administration.
             600
             700
                           200
                                        400
                                                    600
                                                                 800
                                                                             1000
                                                                                         1200
                                                                                                      1400
In [79]: pic1 = imageio.imread('al 2.PNG')
            plt.figure(figsize = (15,15))
            plt.imshow(pic1)
Out[79]: <matplotlib.image.AxesImage at 0x2326c043cf8>
```

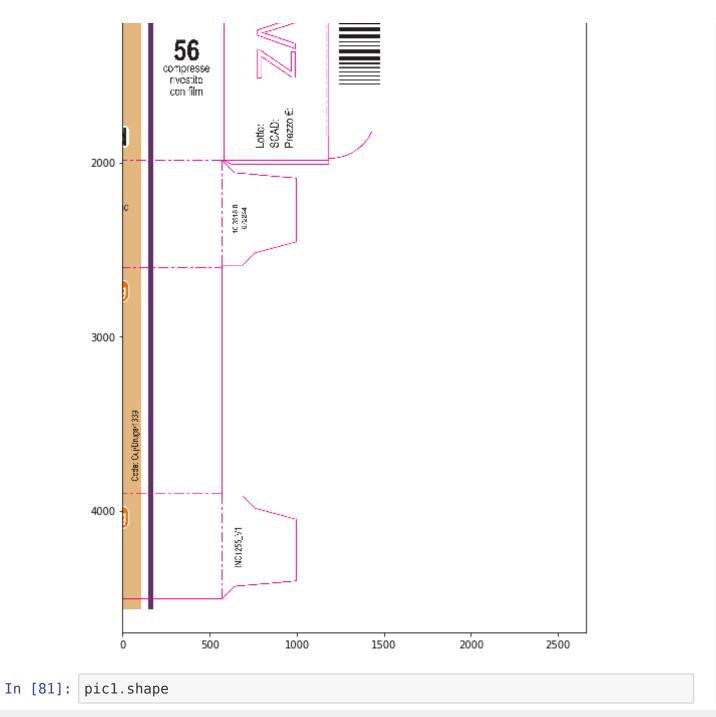




```
pic1 = imageio.imread('a1 2.PNG')
In [801:
         pic1[200:500,535:1600,:]=[255,255,255]
         pic1[500:4700,1495:1600,:]=[255,255,255]
         pic1[650:700,1210:1500,:]=[255,255,255]
         pic1[1980:2010,1220:1500,:]=[255,255,255]
         pic1[4520:4700,520:1500,:]=[255,255,255]
         pic1[4520:4700,520:1500,:]=[255,255,255]
         pic1[4510:4700,520:1500,:]=[255,255,255]
         pic1[2020:4700,1000:1500,:]=[255,255,255]
         pic1[4500:4550,580:1000,:]=[255,255,255]
         pic1[4410:4600,995:1005,:]=[255,255,255]
         pic1[2600:2620,580:1000,:]=[255,255,255]
         pic1[3901:3902,580:1000,:]=[255,255,255]
         plt.figure(figsize = (15,15))
         plt.imshow(pic1)
```

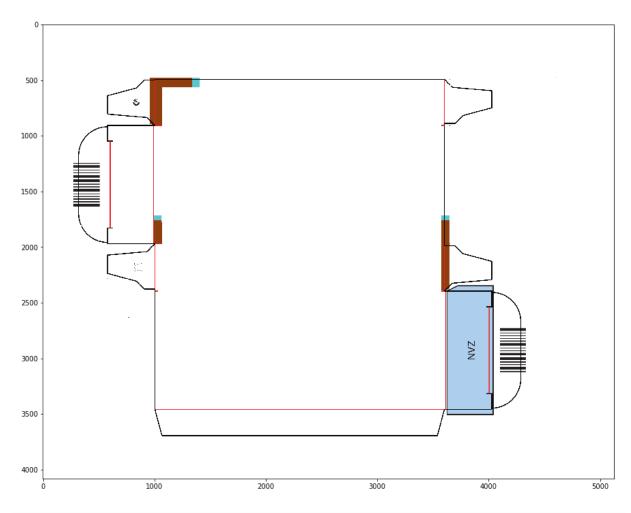
Out[80]: <matplotlib.image.AxesImage at 0x2326e47bcc0>





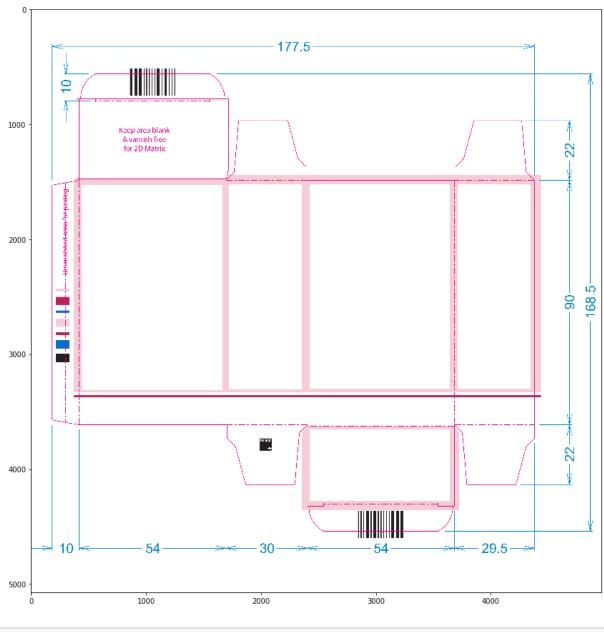
```
Out[81]: (4699, 2660, 3)
In [ ]:
In [82]: pic2 = imageio.imread('a1_3.PNG')
          plt.figure(figsize = (15,15))
          plt.imshow(pic2)
Out[82]: <matplotlib.image.AxesImage at 0x2326e4c7cc0>
           500
           1000
           1500
           2000
                                                                                 18
135.
           2500
                    7 -
           3000
           3500
           4000
                                                           3000
                                                                          4000
                            1000
                                           2000
                                                                                          5000
```

```
pic2.shape
In [83]:
Out[83]: (4080, 5128, 3)
In [84]: pic2 = imageio.imread('a1 3.PNG')
         pic2[3750:4080,200:4500,:]=[255,255,255]
         pic2[150:480,200:4500,:]=[255,255,255]
         pic2[480:3750,4360:5128,:]=[255,255,255]
         pic2[480:600,500:600,:]=[255,255,255]
         pic2[1800:4080,125:350,:]=[255,255,255]
         pic2[2287:2720,350:765,:]=[255,255,255]
         pic2[480:549,3660:4520,:]=[255,255,255]
         pic2[900:950,3660:4520,:]=[255,255,255]
         pic2[1950:1980,3660:4520,:]=[255,255,255]
         pic2[2300:2400,4050:4520,:]=[255,255,255]
         pic2[3600:3750,3570:4450,:]=[255,255,255]
         pic2[3450:3550,4050:4350,:]=[255,255,255]
         pic2[3300:3700,4270:4360,:]=[255,255,255]
         plt.figure(figsize = (15,15))
         plt.imshow(pic2)
Out[84]: <matplotlib.image.AxesImage at 0x2326e53c3c8>
```



```
In [85]: pic3 = imageio.imread('a1_4.PNG')
plt.figure(figsize = (15,15))
plt.imshow(pic3)
```

Out[85]: <matplotlib.image.AxesImage at 0x232792d4390>

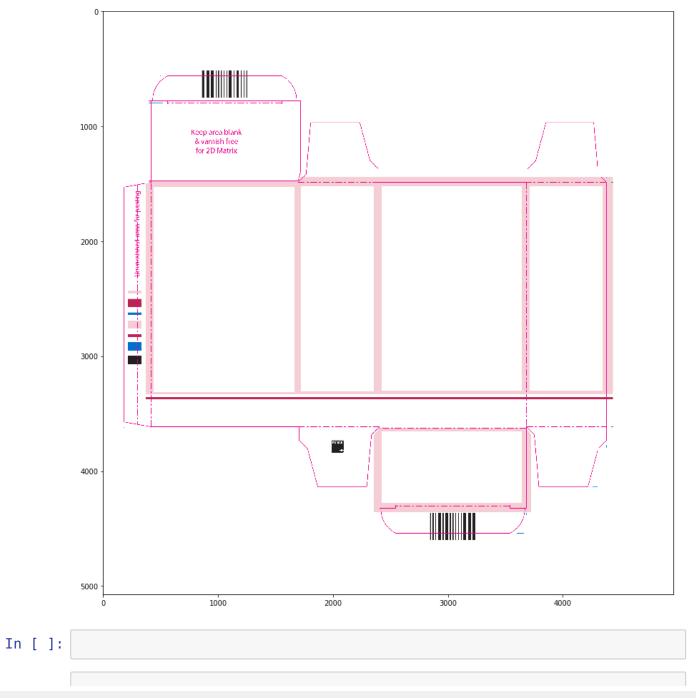


In [86]: pic3.shape

Out[86]: (5072, 4960, 3)

```
In [87]: pic3 = imageio.imread('a1_4.PNG')
    pic3[4600:5072,0:4960,:]=[255,255,255]
    pic3[550:5072,4440:4960,:]=[255,255,255]
    pic3[250:370,50:4960,:]=[255,255,255]
    pic3[550:600,1600:4960,:]=[255,255,255]
    pic3[350:1500,0:400,:]=[255,255,255]
    pic3[350:1440,4300:4500,:]=[255,255,255]
    pic3[3800:4800,4300:4500,:]=[255,255,255]
    pic3[4380:4600,3660:4400,:]=[255,255,255]
    pic3[3623:4600,140:500,:]=[255,255,255]
    pic3[500:600,140:500,:]=[255,255,255]
```

Out[87]: <matplotlib.image.AxesImage at 0x2327f41bcc0>



In []:	
In []:	