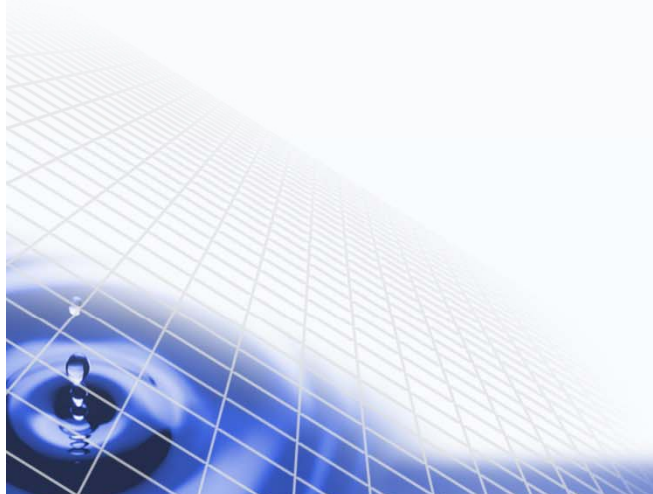


# ATR PRO ONE VIEW

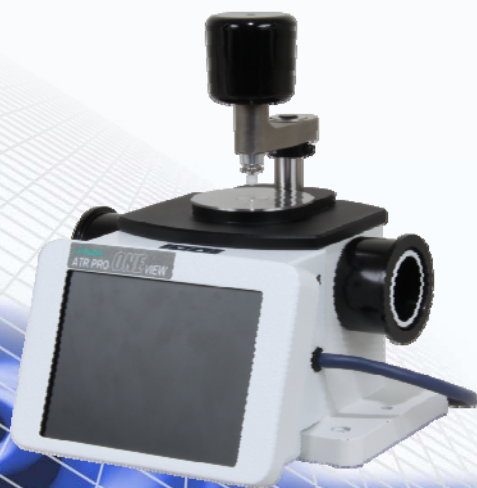


# ATR PRO ONE VIEW

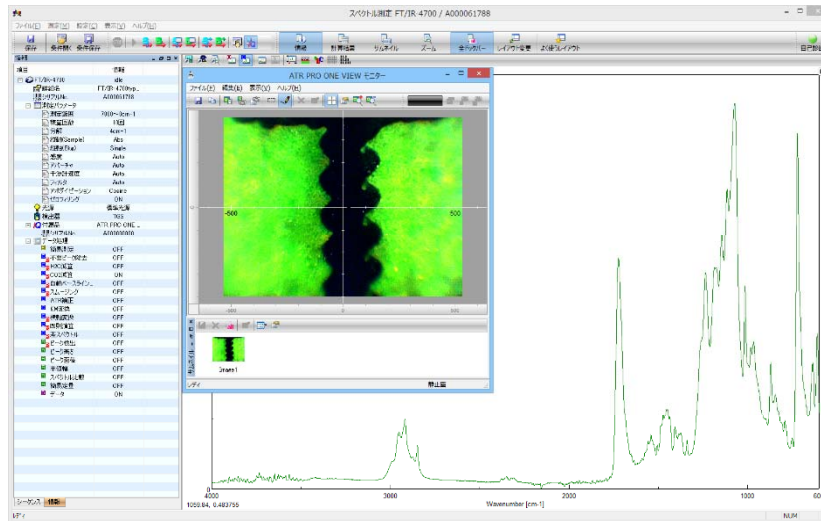
## Observation type single reflection ATR accessory

### 【Specification】

ATR PRO ONE VIEW is newly designed accessory and it has not only ATR measurement capability but also an observation mode about measurement sample simultaneously. And our own lighting and optical systems design technology makes it possible to observe the measurement sample with high definition in wide imaging area. Sample image is acquired automatically on the measurement program and its image data can be attached on the spectrum data with ease.



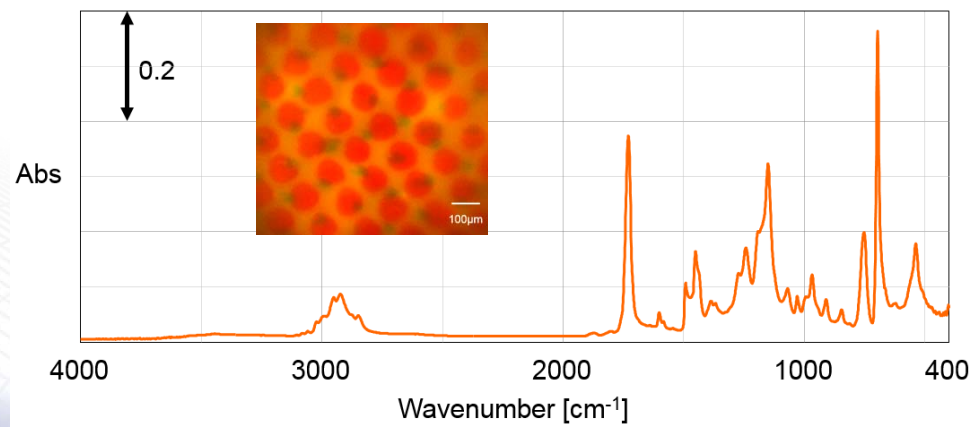
<b>Prism</b>	Observation: View-through diamond (high-throughput type, wide wavenumber range type) Non observation : ZnSe, Ge
<b>Sample fitting area</b>	1.8 mmφ (Diamond) 2.5 mmφ (ZnSe, Ge)
<b>Number of reflection</b>	1 time
<b>Incident angle</b>	45 degree
<b>Pressure-resistant</b>	700 kg/cm <sup>2</sup> (Diamond) 400 kg/cm <sup>2</sup> (ZnSe, Ge)
<b>Measurement range</b>	10000-300cm <sup>-1</sup> ※(High-throughput type) 10000-30cm <sup>-1</sup> ※ (Wide wavenumber range type) 10000-500cm <sup>-1</sup> (ZnSe) 10000-550cm <sup>-1</sup> (Ge) ※ except 2500-1800cm <sup>-1</sup>
<b>Observation Camera Area LCD</b>	USB 1.1x0.8mm 5 inch VGA (Option)
<b>Software</b>	SP Data type with view Measurement tool Image processing mechanism
<b>Dimension, Weight</b>	160(W) × 166(D) × 205(H)mm 2.0 kg
<b>Accessory</b>	Pressure tip (2 types standard, 3types option) Well plate for powdered sample (option) Volatiles cover for liquid sample (option)



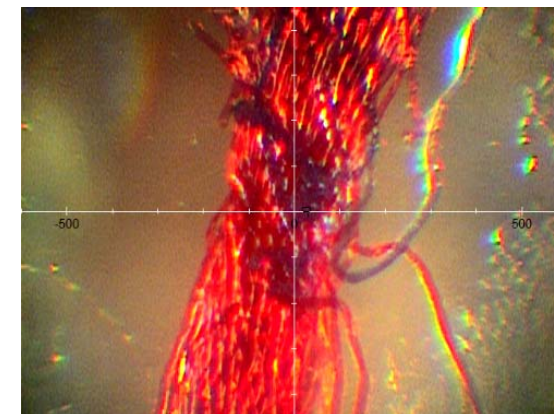
Measurement Program



FT/IR-4700+ATR PRO ONE VIEW

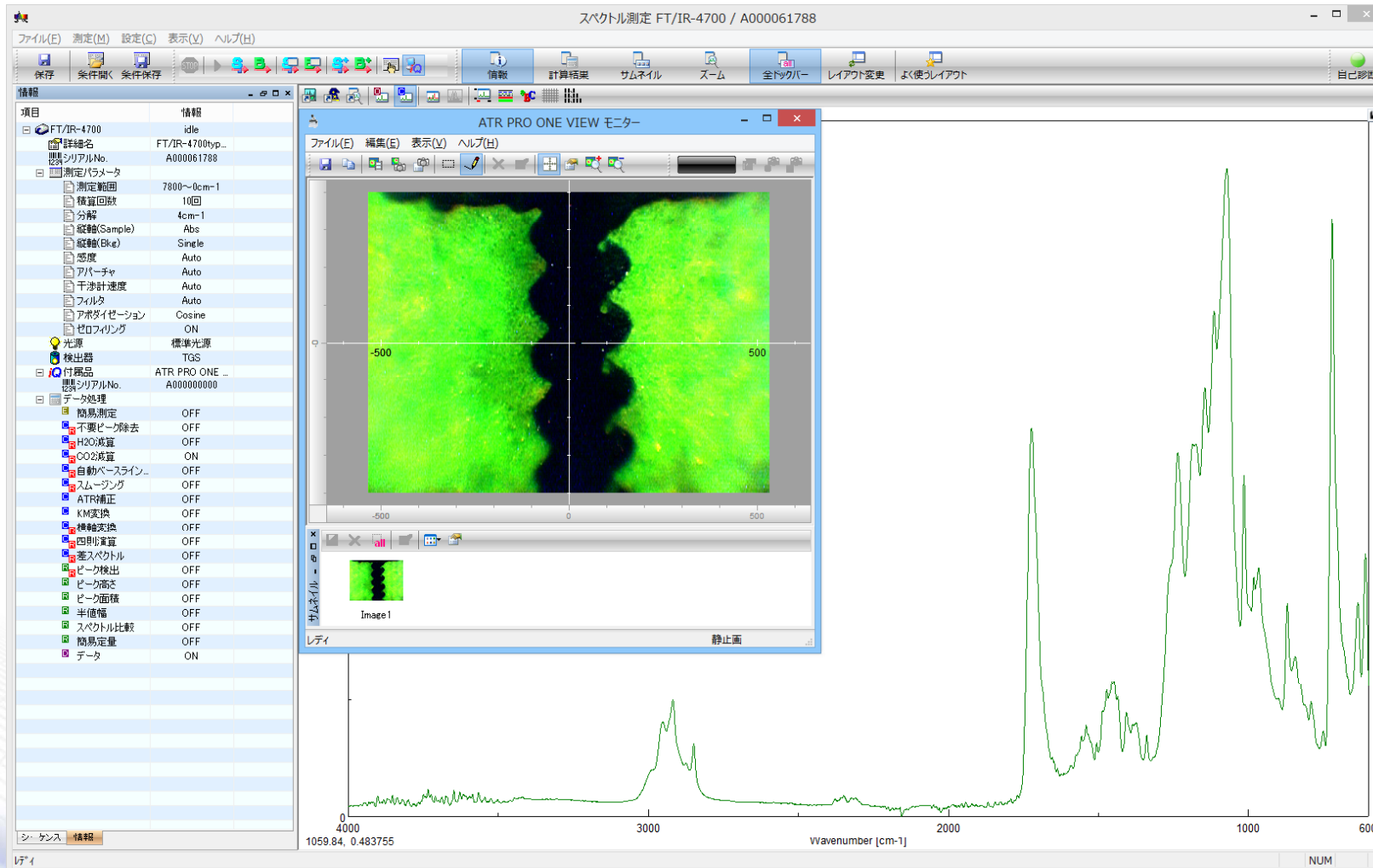
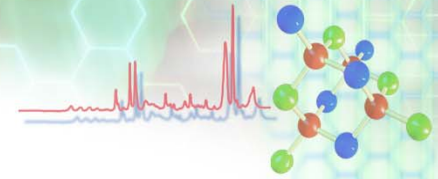


Measurement example of packing film sample



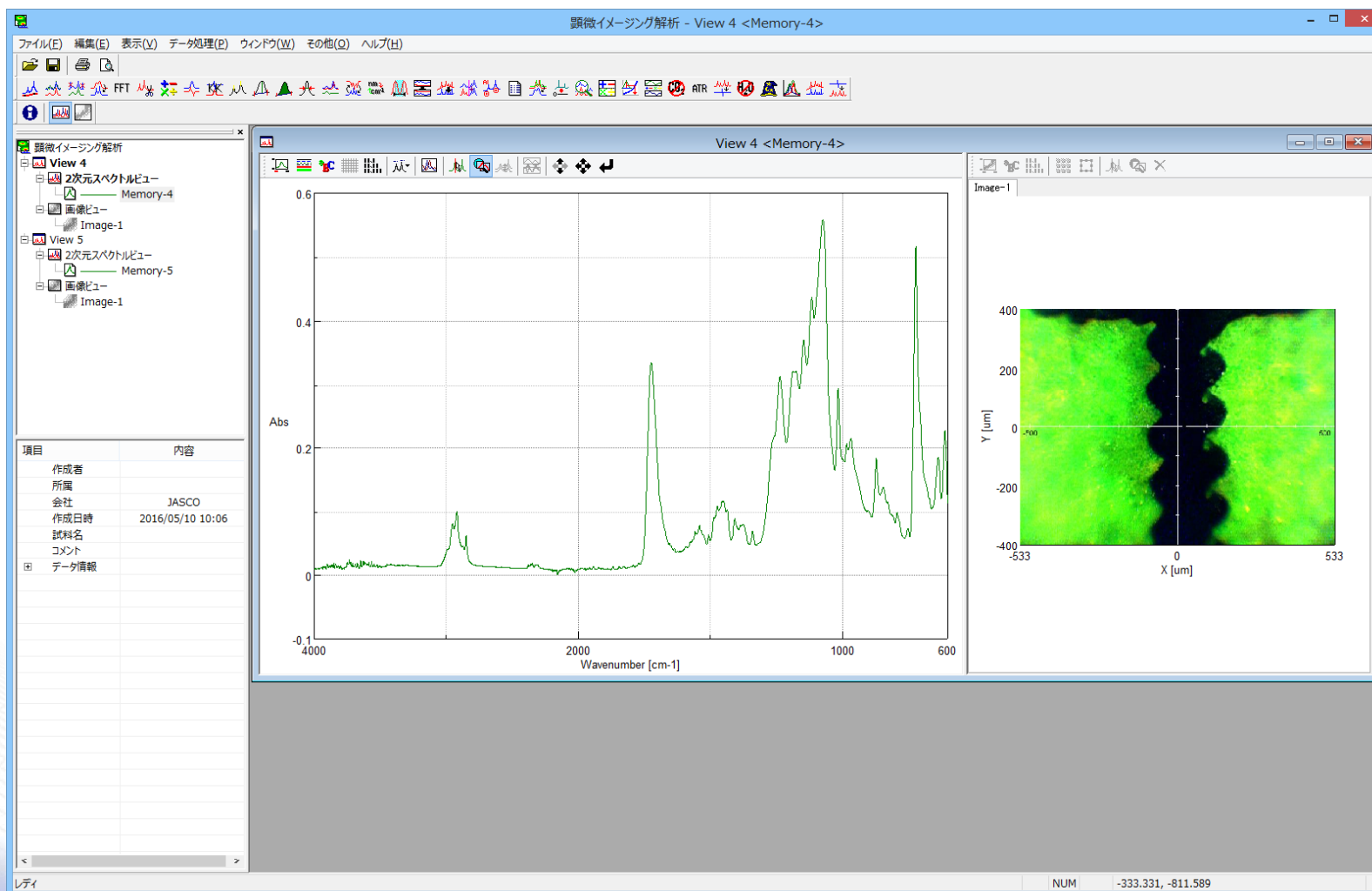
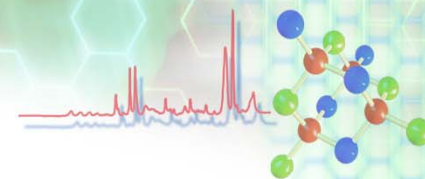
Observation example of Fiber piece

# Measurement program



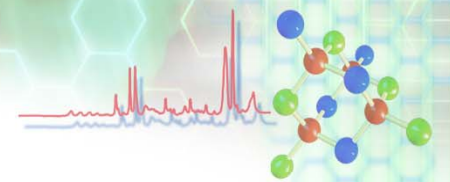


# Analysis program

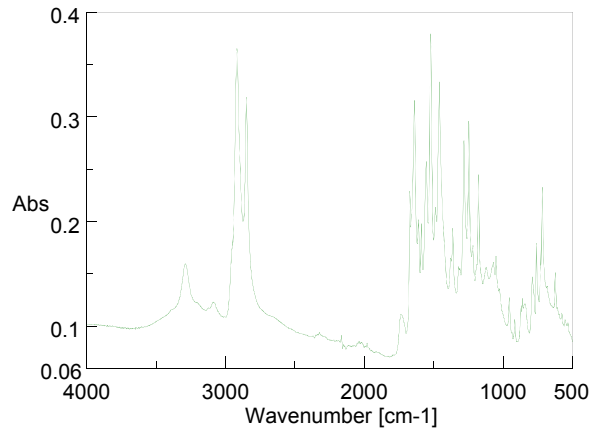


# Measurement #1

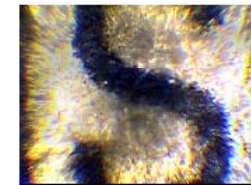
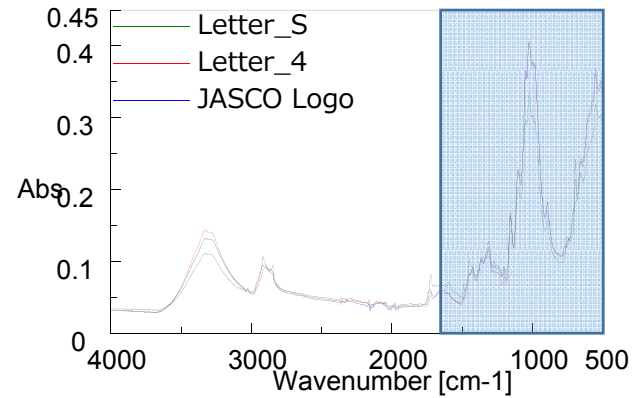
## Printed materials



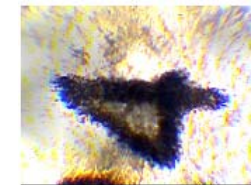
Outer design of the package



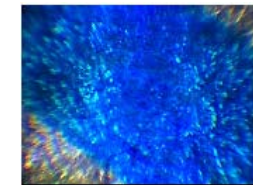
Business card



Letter\_S



Letter\_4



JASCO Logo

Observation image

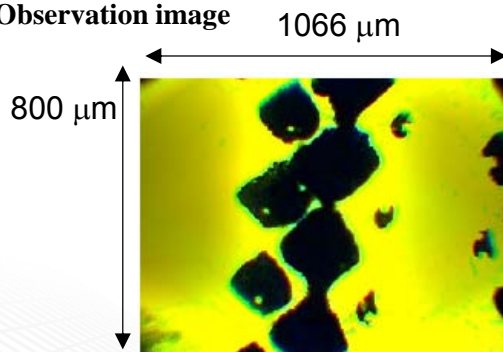
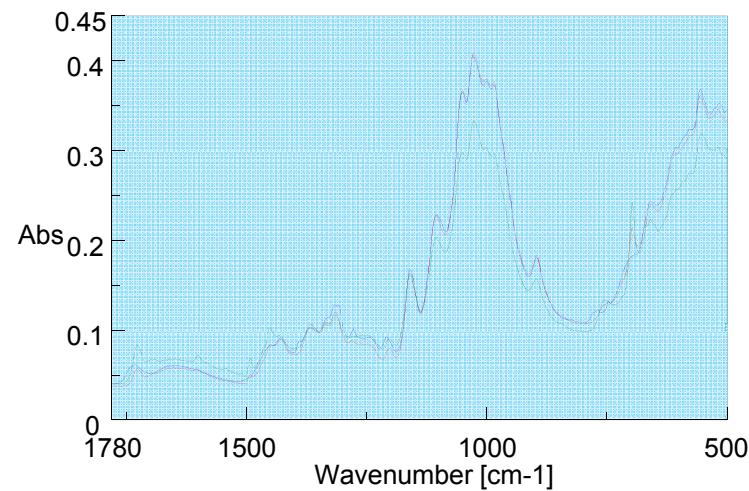
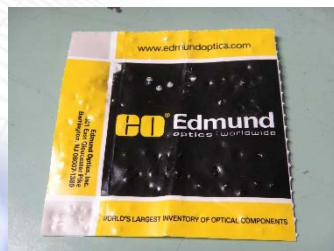


Photo image

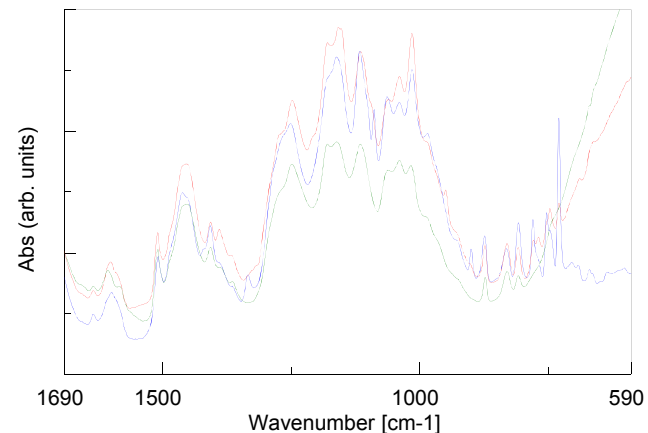
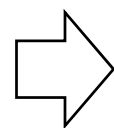
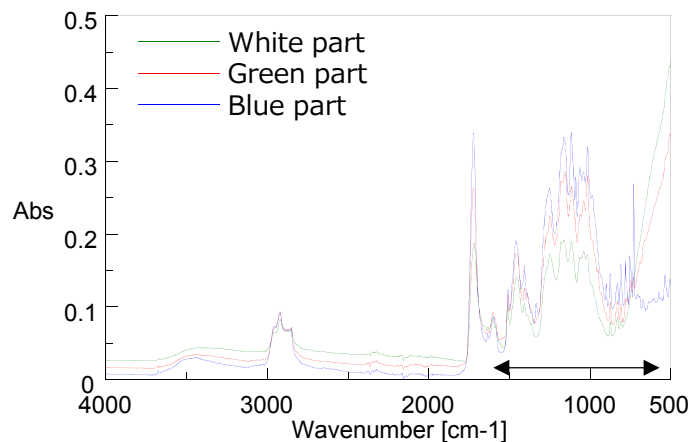


# Measurement #2

## Printed materials #2

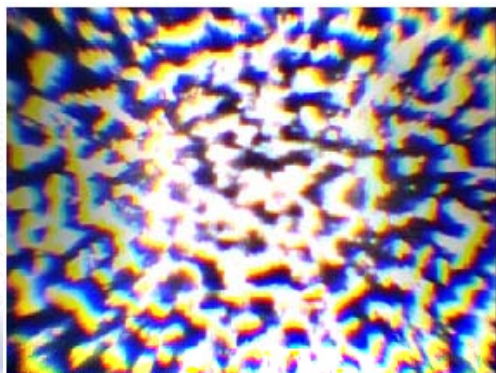


Outer design of the package

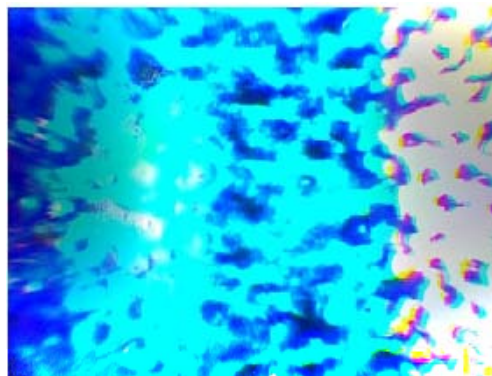


Observation image

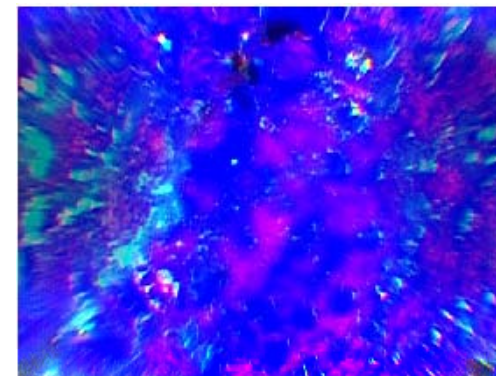
White part



Green part



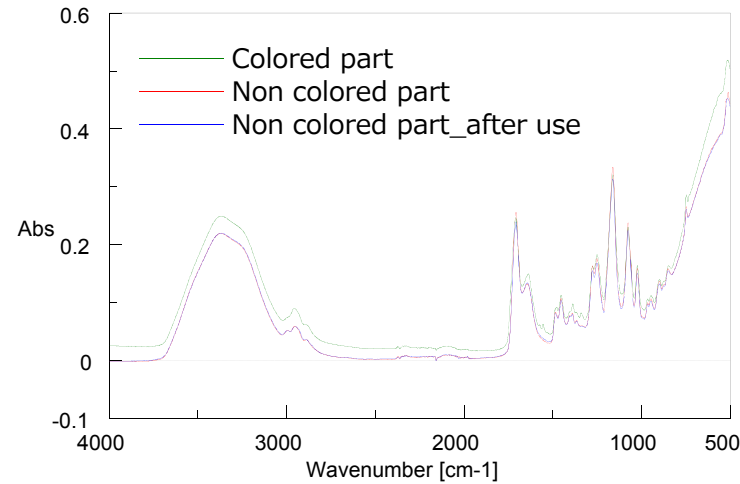
Blue part





# Measurement #3

## Color contact lens



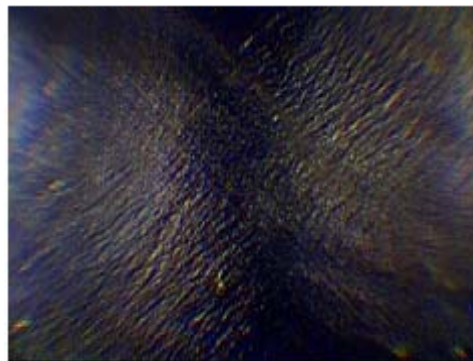
Any change has not been confirmed in spectra.

### Observation image

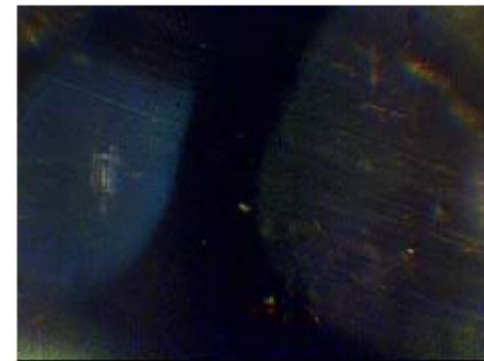
Colored part



Non colored part



Non colored part after use in 3 hours

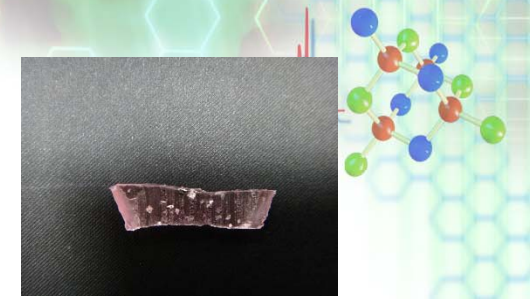


Measurement example about even the most difficult type sample to be measured like this one which has curvature shape with hard material.

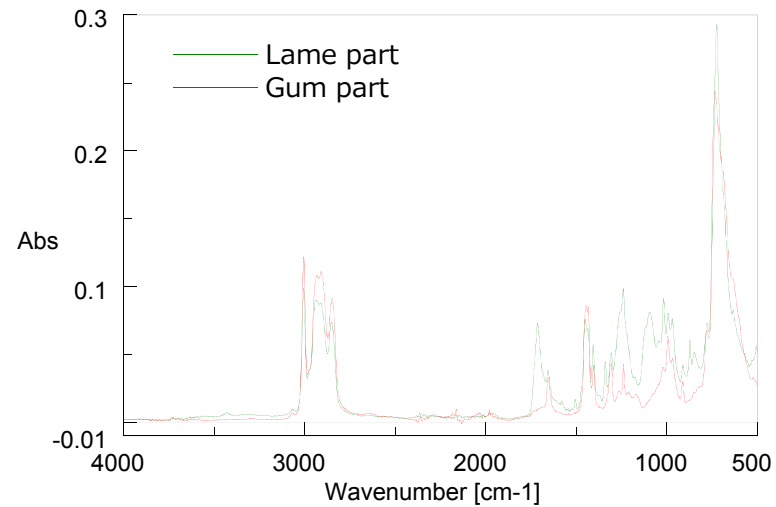


# Measurement #4

## Impurity in Gum materials

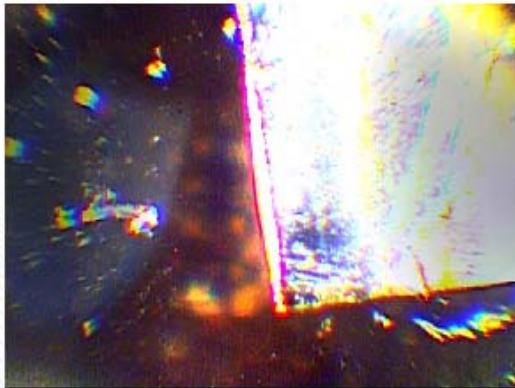


Bouncy ball

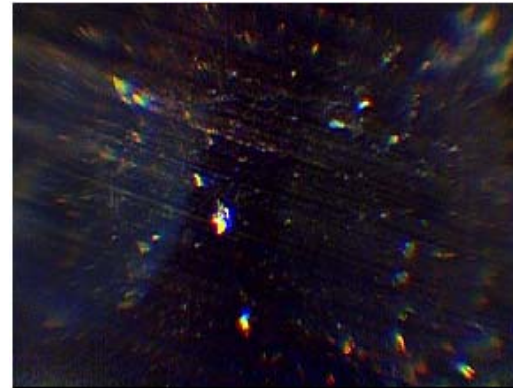


### Observation image

Lame part

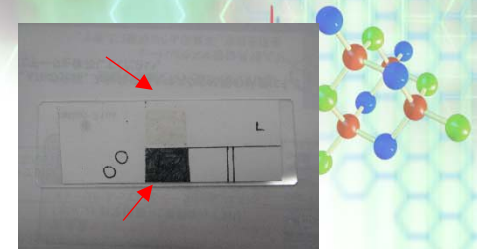


Gum part

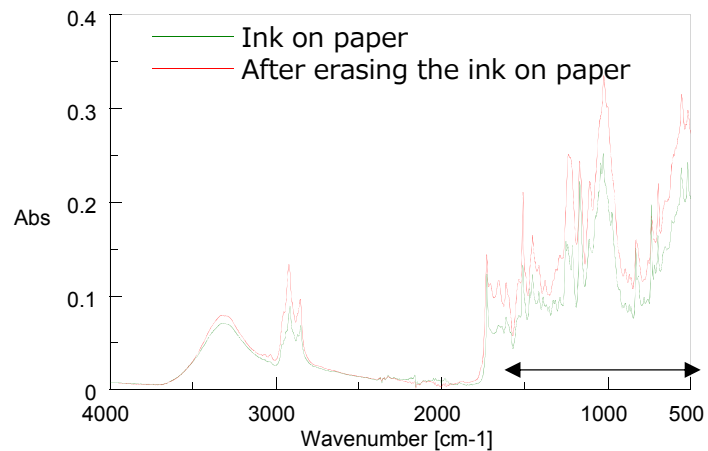


# Measurement #5

## Ink on paper

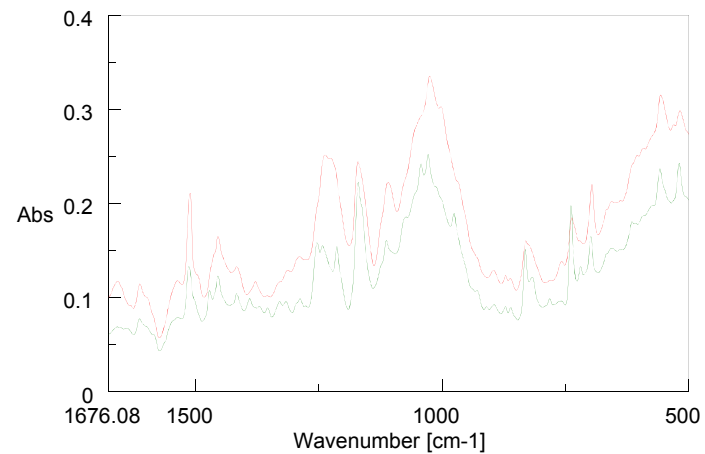
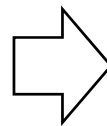
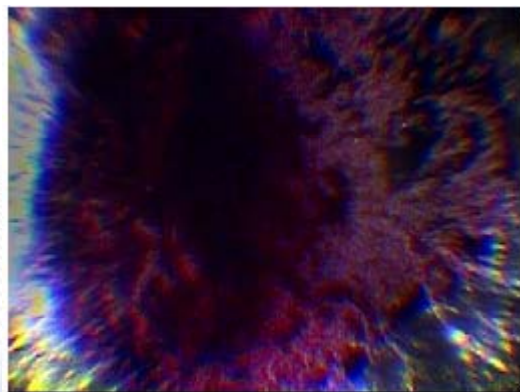


Ballpoint Pen With Erasable Ink

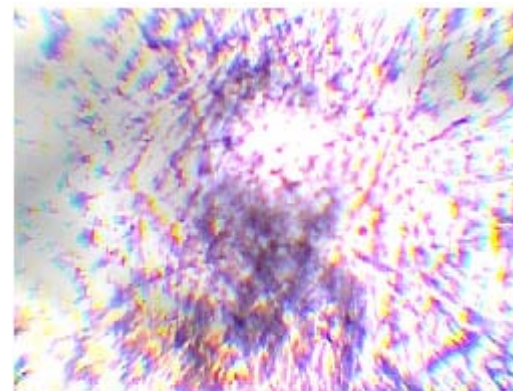


Observation image

Erasable ink



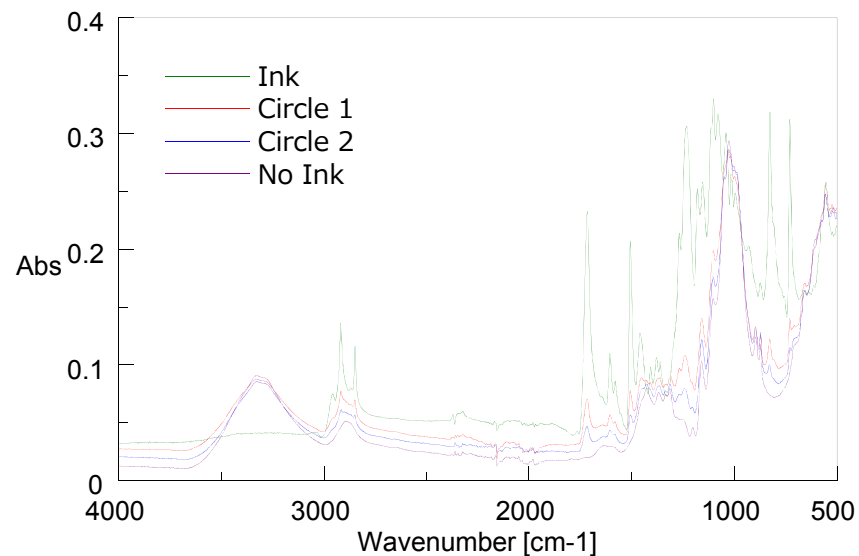
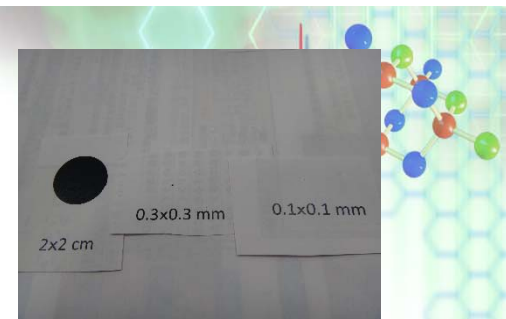
After erasing the ink



# Measurement #6

## Ink on paper #2

写真

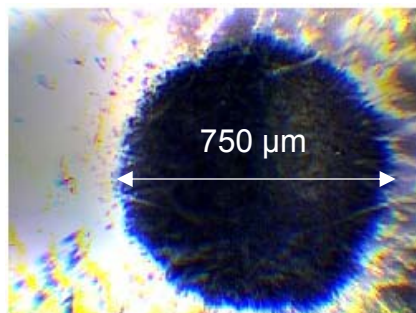


### Observation image

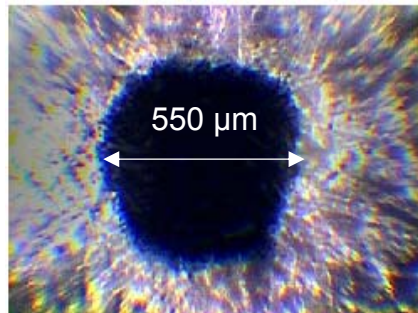
Ink



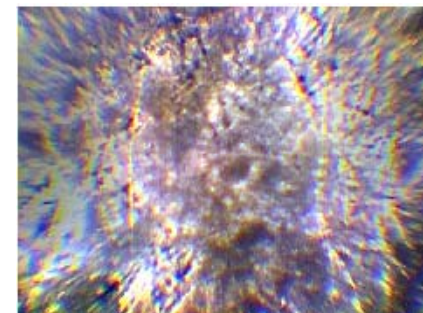
Circle 1



Circle 2



No Ink

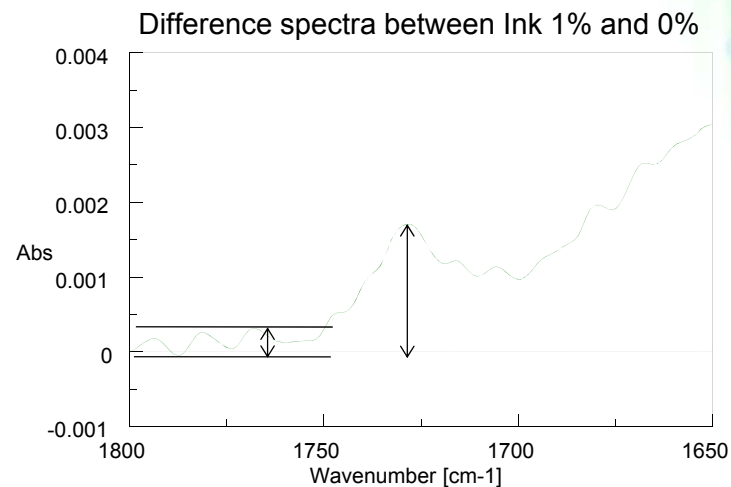
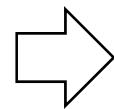
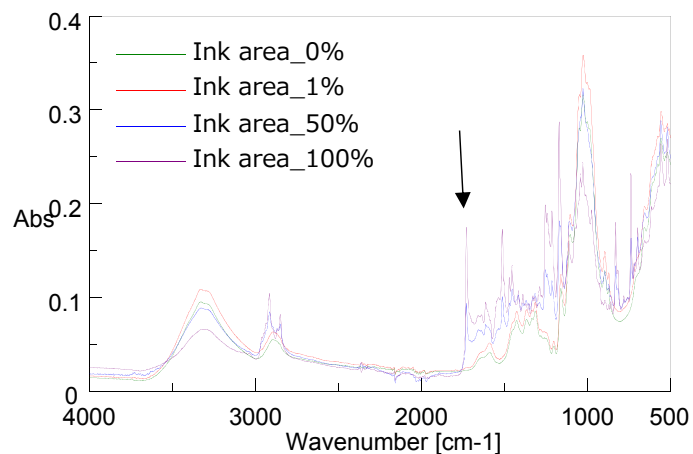
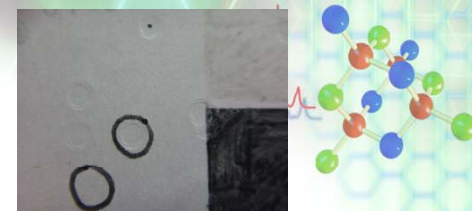


500um size area can be measured.



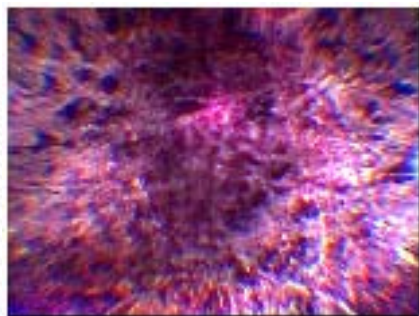
# Measurement #7

## Ink on paper #3

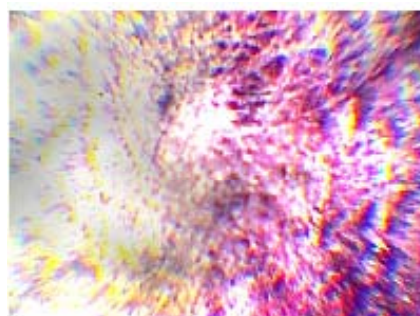


### Observation image

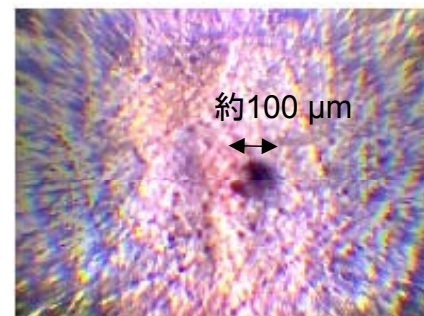
Ink area\_100%



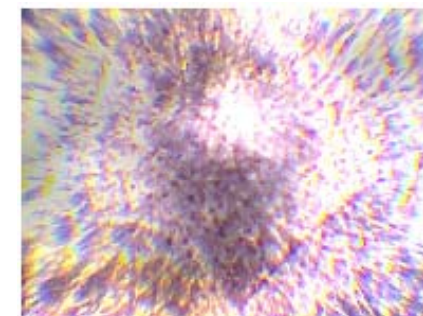
Ink area\_50 %



Ink area\_1%



Ink area\_0 %



According to comparison the height between the noise in 1800 cm<sup>-1</sup>~1780 cm<sup>-1</sup> and peak height in 1730 cm<sup>-1</sup>, the limit of this sample measurement is estimated in 50 μm~100 μm.

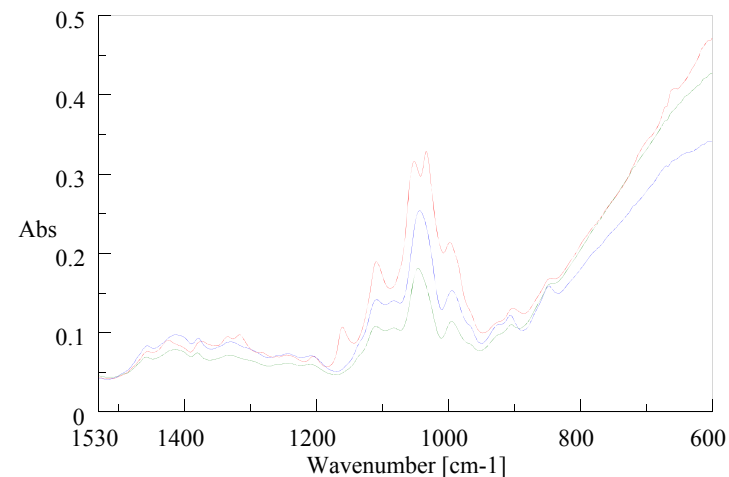
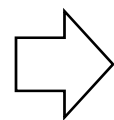
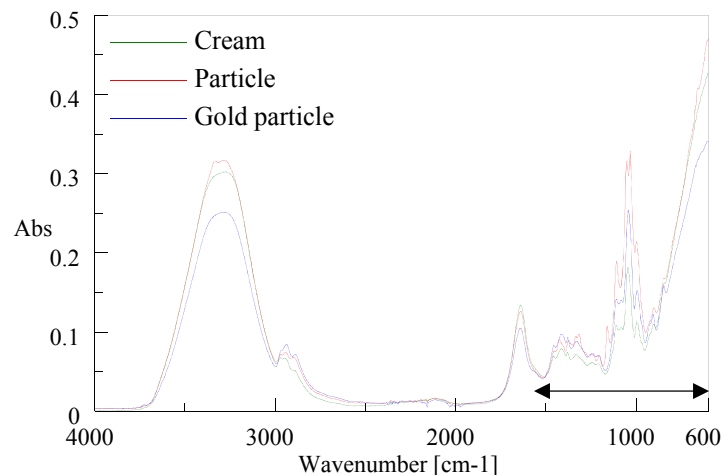


# Measurement #8

## Impurity measurement of beauty cream

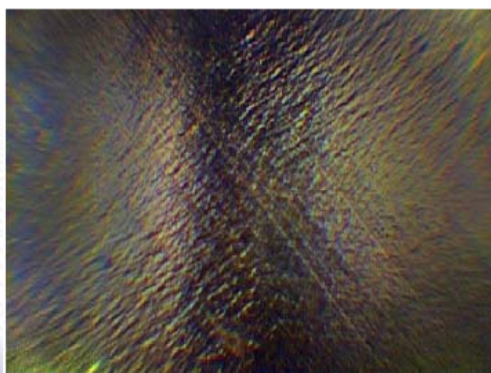


Beauty cream (manufactured by Dr. Ci:Labo)

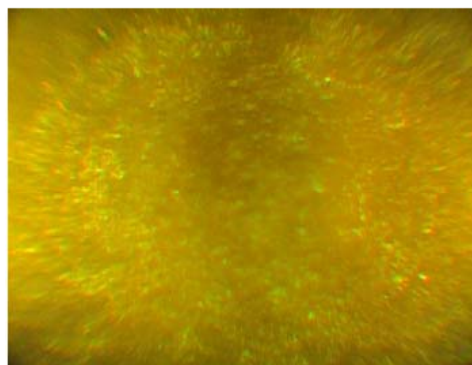


### Observation image

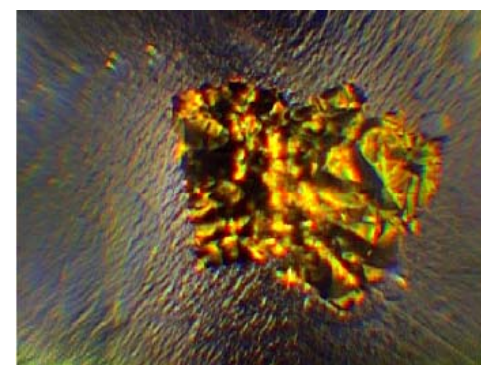
Cream



Particle



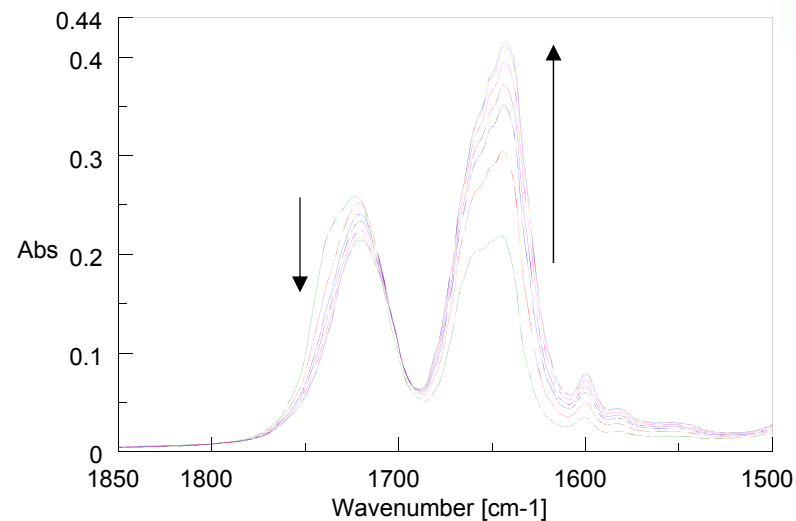
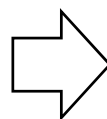
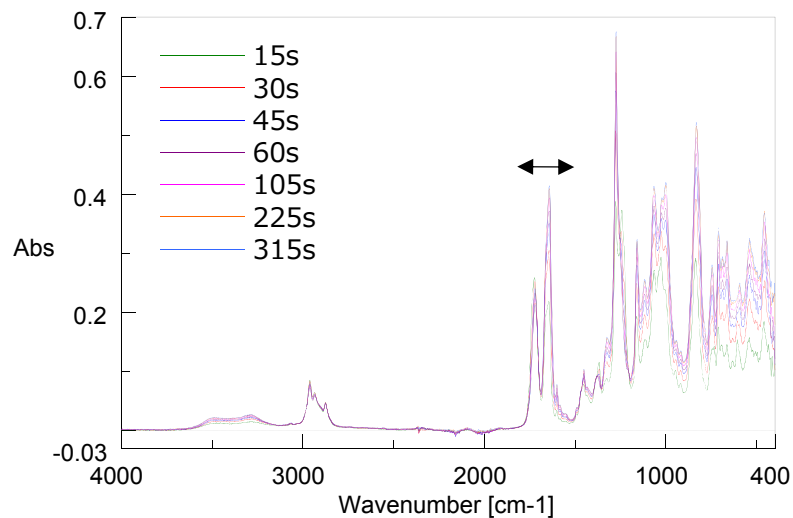
Gold particle



# Measurement #9

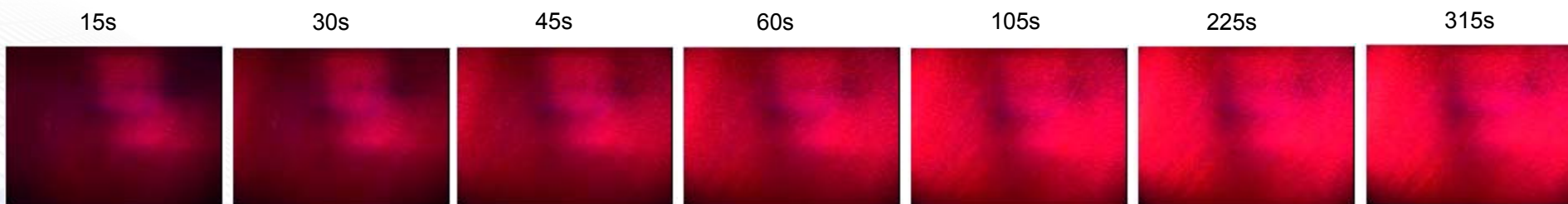
## Time course measurement of Manicure

Manicuring on prism after BKG measurement, then it is measured in every few-10 seconds. Data acquisition is 10 times.



There are some peaks increased and other peaked reduced with the passage of time

### Observation image



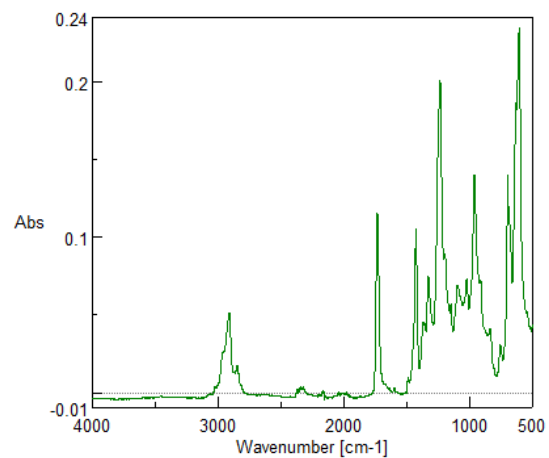
It got blighter with the passage of time.

# Measurement #10

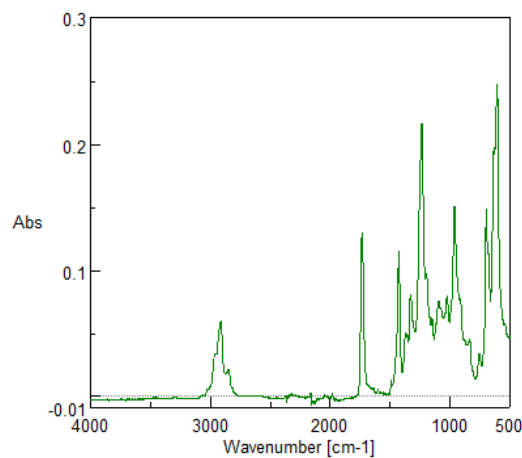
## Plastic card samples



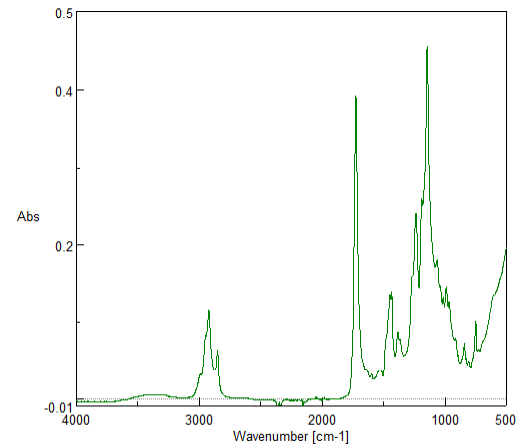
Dot part of Blue card



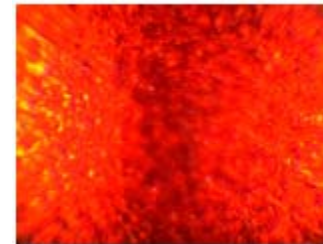
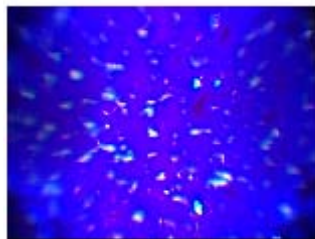
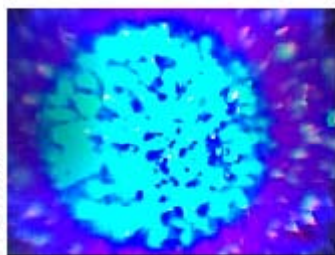
Base part of Blue card



Red card

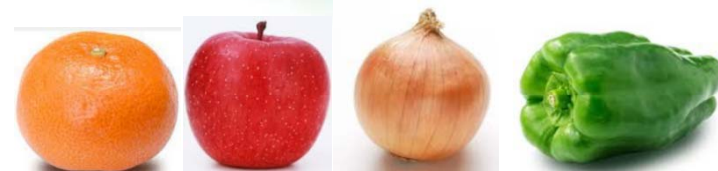


Observation image

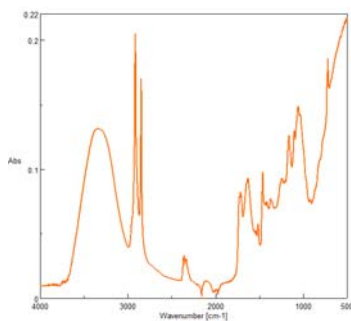


# Measurement #11

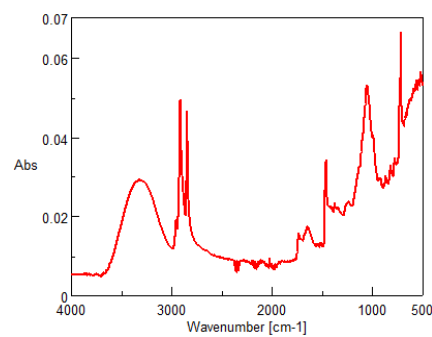
## Surface of vegetables and fruits



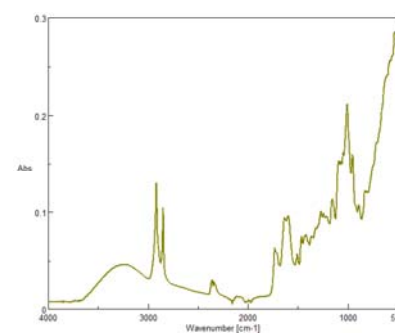
Orange



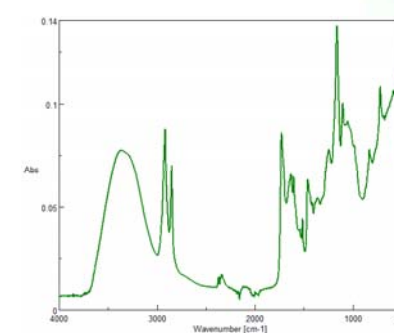
Apple



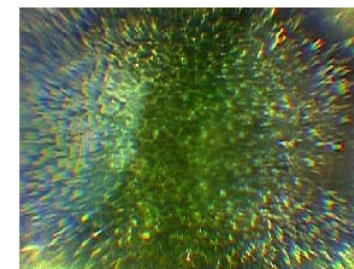
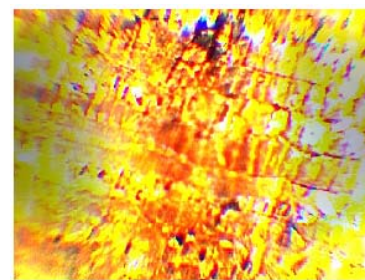
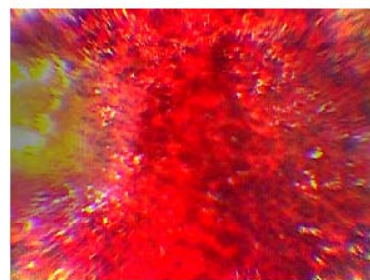
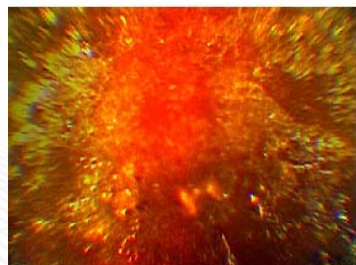
Onion



Green Pepper



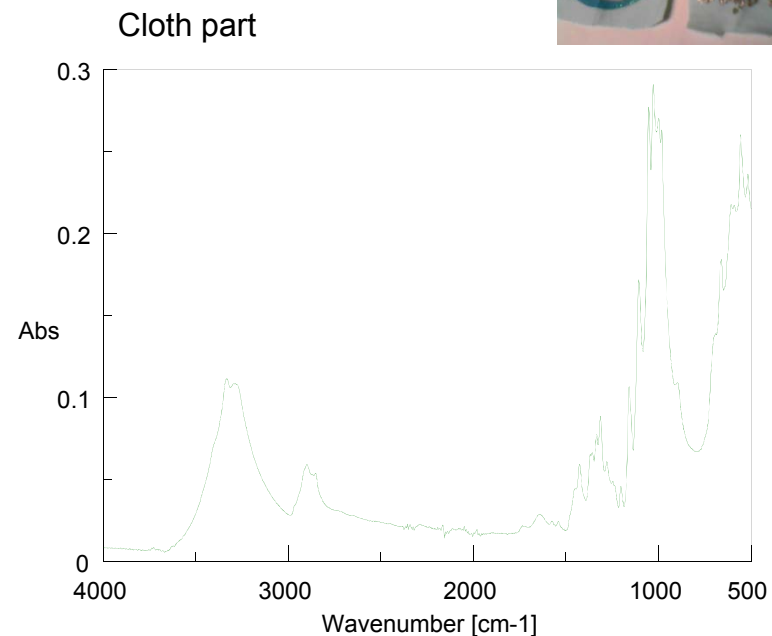
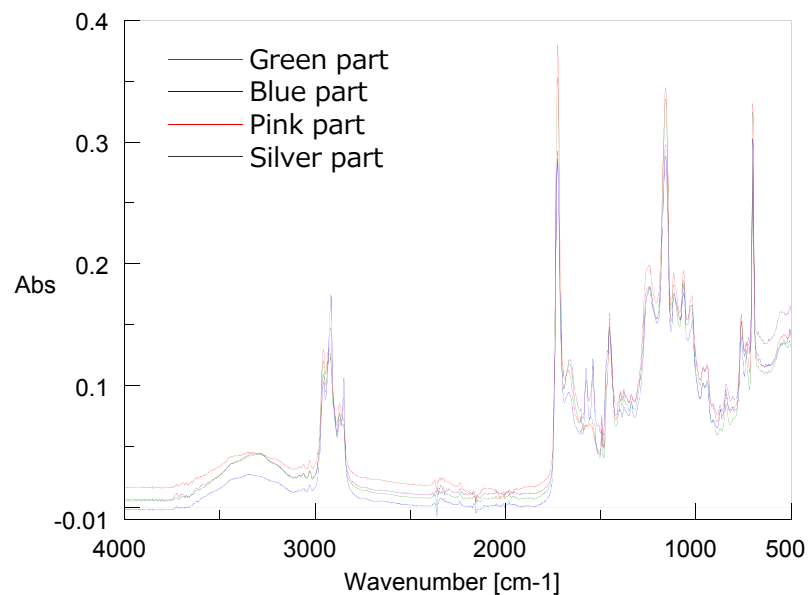
### Observation image





# Measurement #12

## Fiber materials



### Observation image

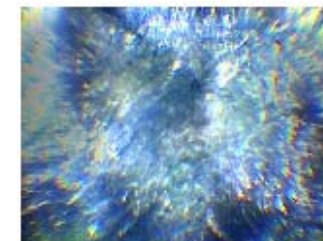
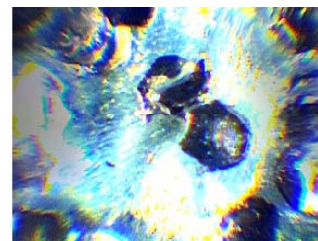
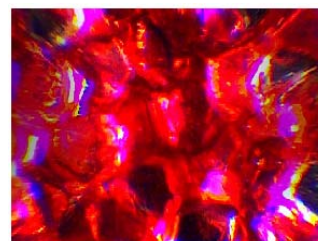
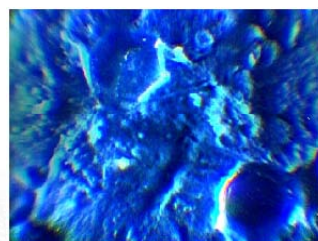
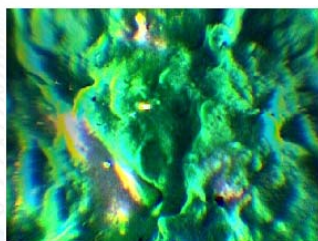
Green part

Blue part

Red part

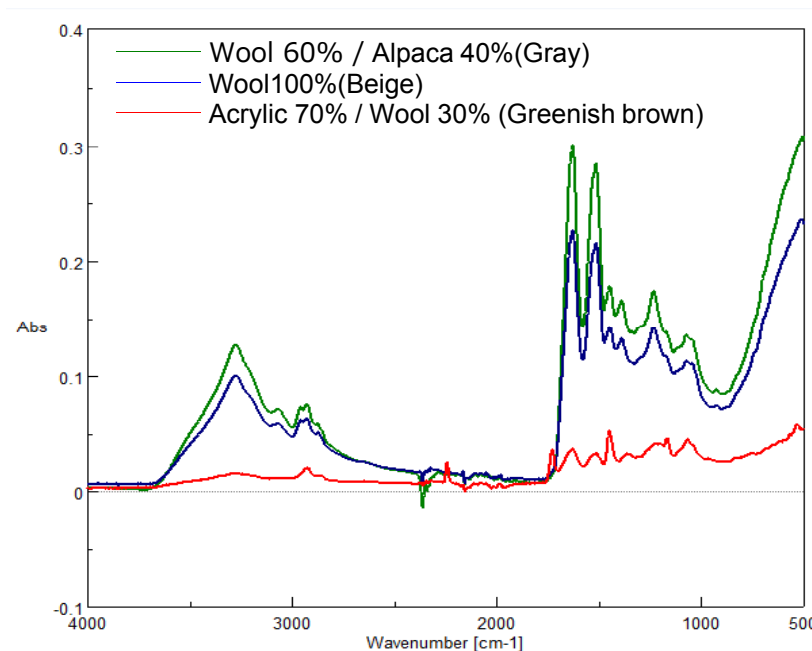
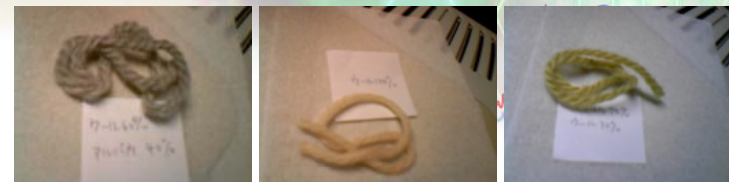
Silver part

Cloth part



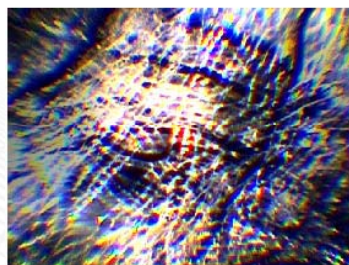
# Measurement #13

## Fiber materials #2

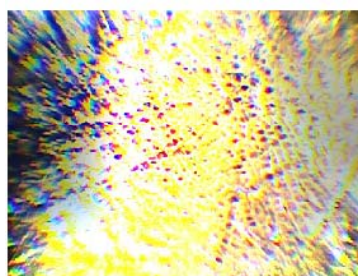


Observation image

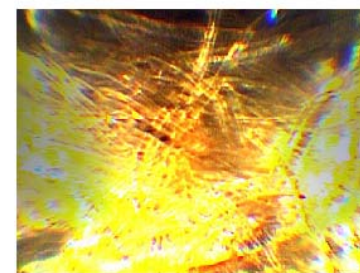
Wool 60% / Alpaca 40%(Gray)



Wool 100%

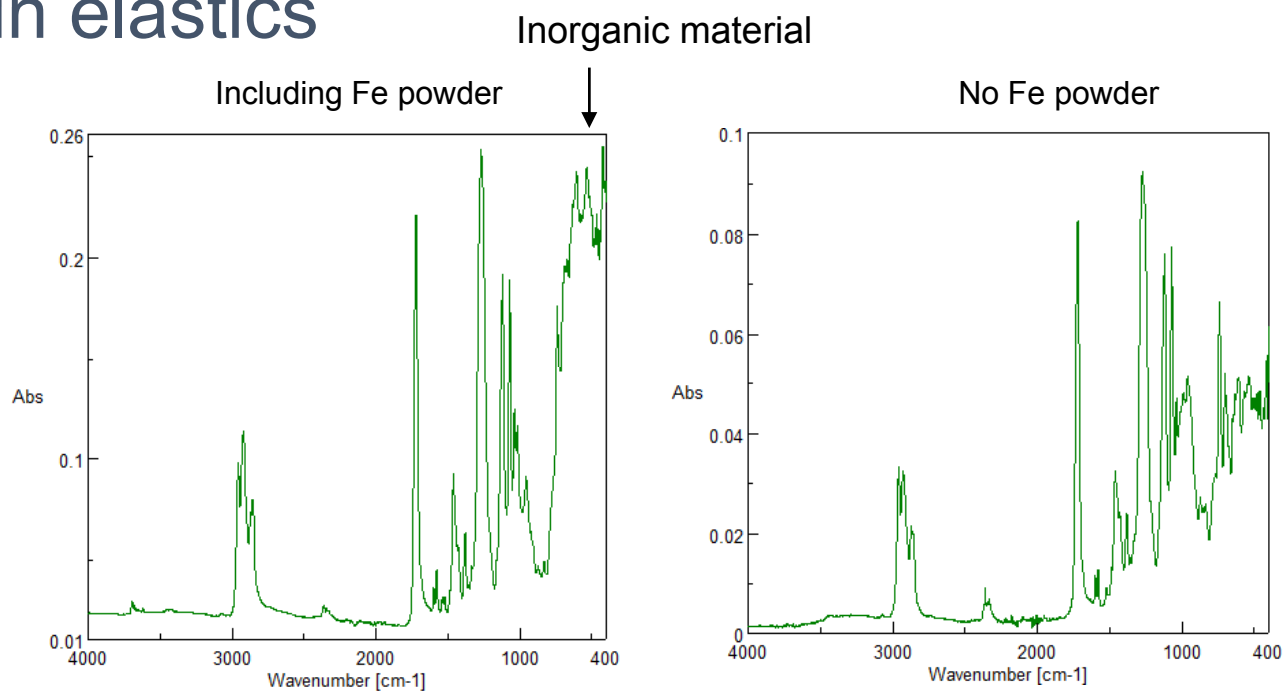


Acrylic 70% /  
Wool 30% (Greenish brown)

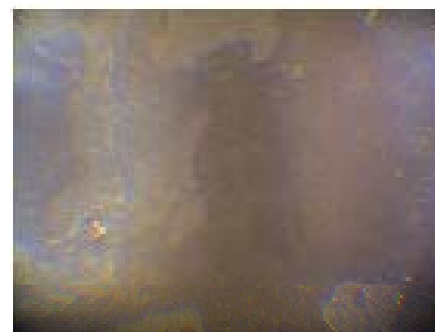
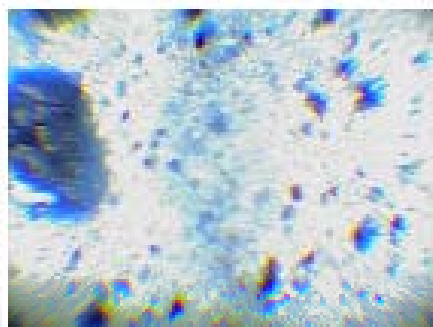


# Measurement #14

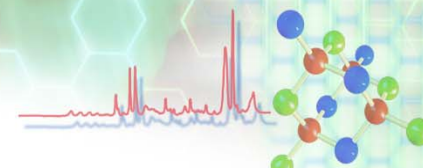
## Gun elastics



### Observation image



# List of measurement samples



Clip  
Package of plastic bag  
Inside of Cigarette  
Cigarette filter  
Oiliness Ink –Silver-  
Oiliness ink on paper– black-  
Aqueous ink on paper– black-  
PS film  
Package box of gum  
Color contact lens  
Bouncy ball  
Erasable ink  
Ink on paper  
Erasable ink on paper  
Beauty cream (Eteyuse)  
Beauty cream (Dr Ci:Labo)  
Cooling Soft Gel Sheets  
Business card  
Hair  
Skin

Skin condition difference  
Hair condition difference  
Hand cream  
Foundation  
Oil blotting paper  
Rear part of CD-ROM  
Tape  
Nylon fiber on PE  
Fishhook  
Scotch tape  
Manicure  
Plastic card  
Emery board  
Surface of fruits/vegetables  
3D sticker  
Lame part of T-shirt  
Wool  
Package of chocolate  
False eyelash

Spangle  
Stamp ink  
Color pencil  
Leafs  
Eraser  
Impurity material on Floppy disk