

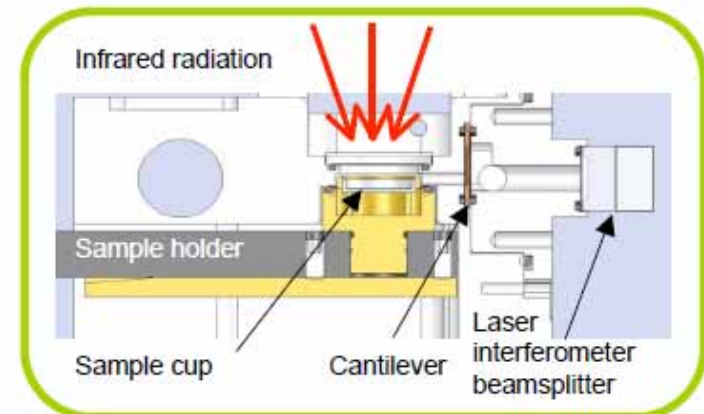
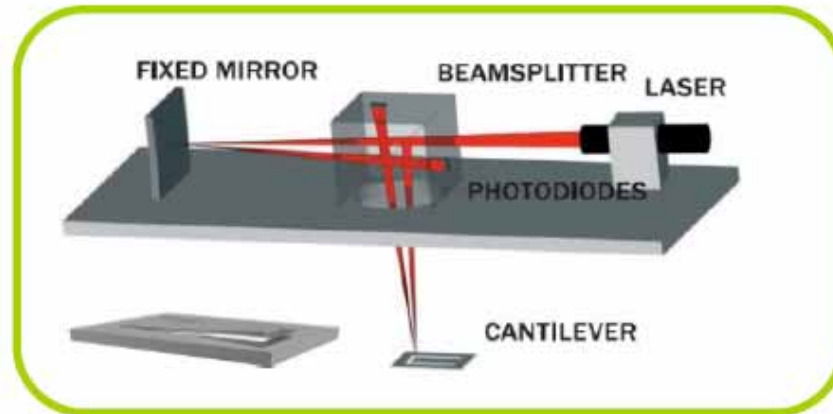
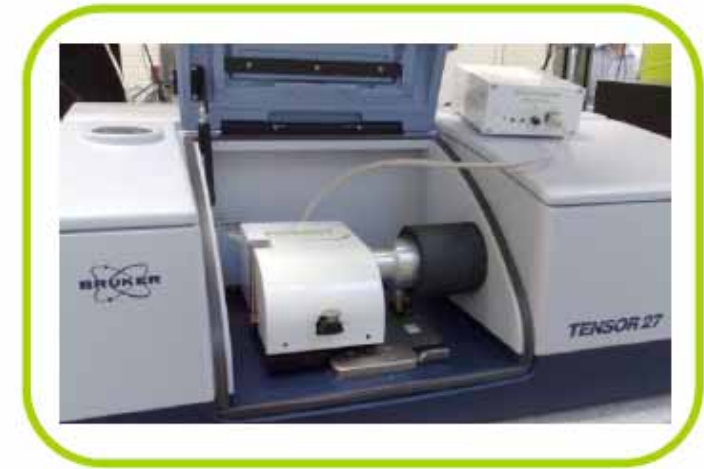
Versatile and rapid analysis of solid  
and liquid samples with Gasera's new  
FTIR accessory PA301

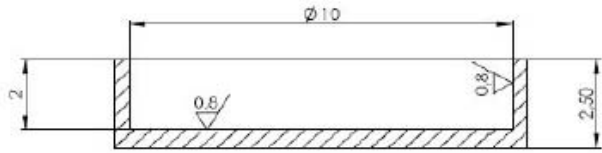


# Photoacoustic FTIR accessory for solid and liquid samples

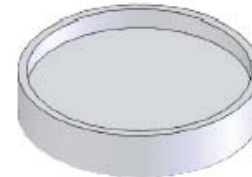
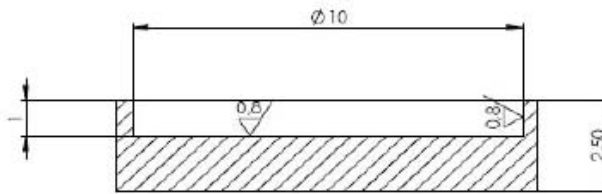
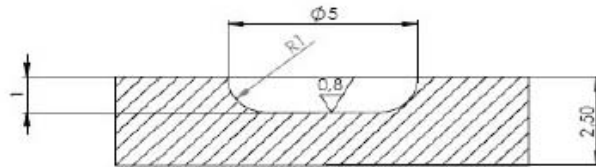
## Features:

- Photoacoustic accessory for common laboratory FTIR instruments
- Measures solid, semi-solid, and liquid samples
- High sensitivity by novel optical cantilever microphone
- Easy to use – no sample preparation
- No consumables necessary: air can be used as the carrier gas
- High SNR with short measurement time

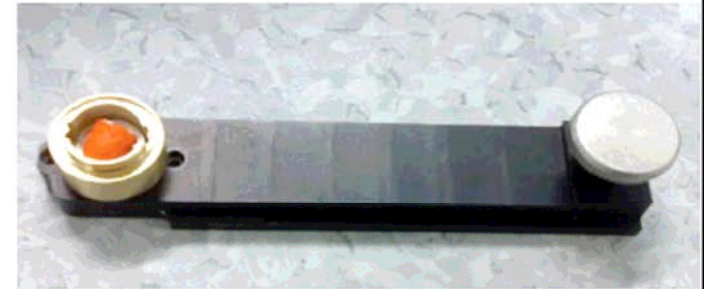




- Sampling is extremely easy
- Just set the sample in the middle of the cup, insert the cup inside the cell and measure
- Maximum sample size is 10 mm in diameter and 9 mm in height
- Three different size sample cups
- The sample is not compressed or consumed during the measurement
- The sample can be liquid, solid, semi-solid, powder, fiber and basically in any form



Sample cup in the cell



## Parameters:

Sample: **Polyethene** (white)

Measurement time: **2,5 seconds (1 scan)**

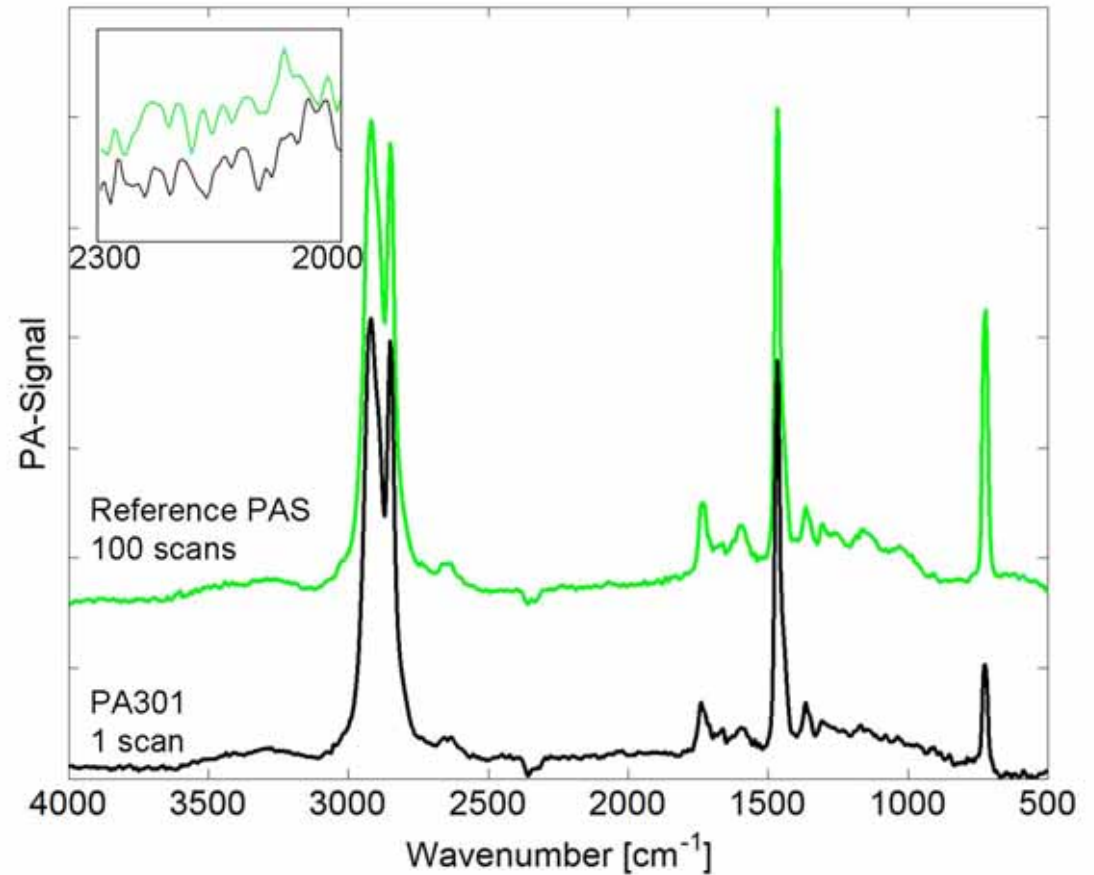
FTIR device: Thermo Antaris

Resolution: 8 cm<sup>-1</sup>

HeNe laser frequency: 2.5 kHz

Atmosphere: Helium

Pressure: 1 atm



## Parameters:

Sample: **Acetone** (liquid)

FTIR device: Thermo Antaris

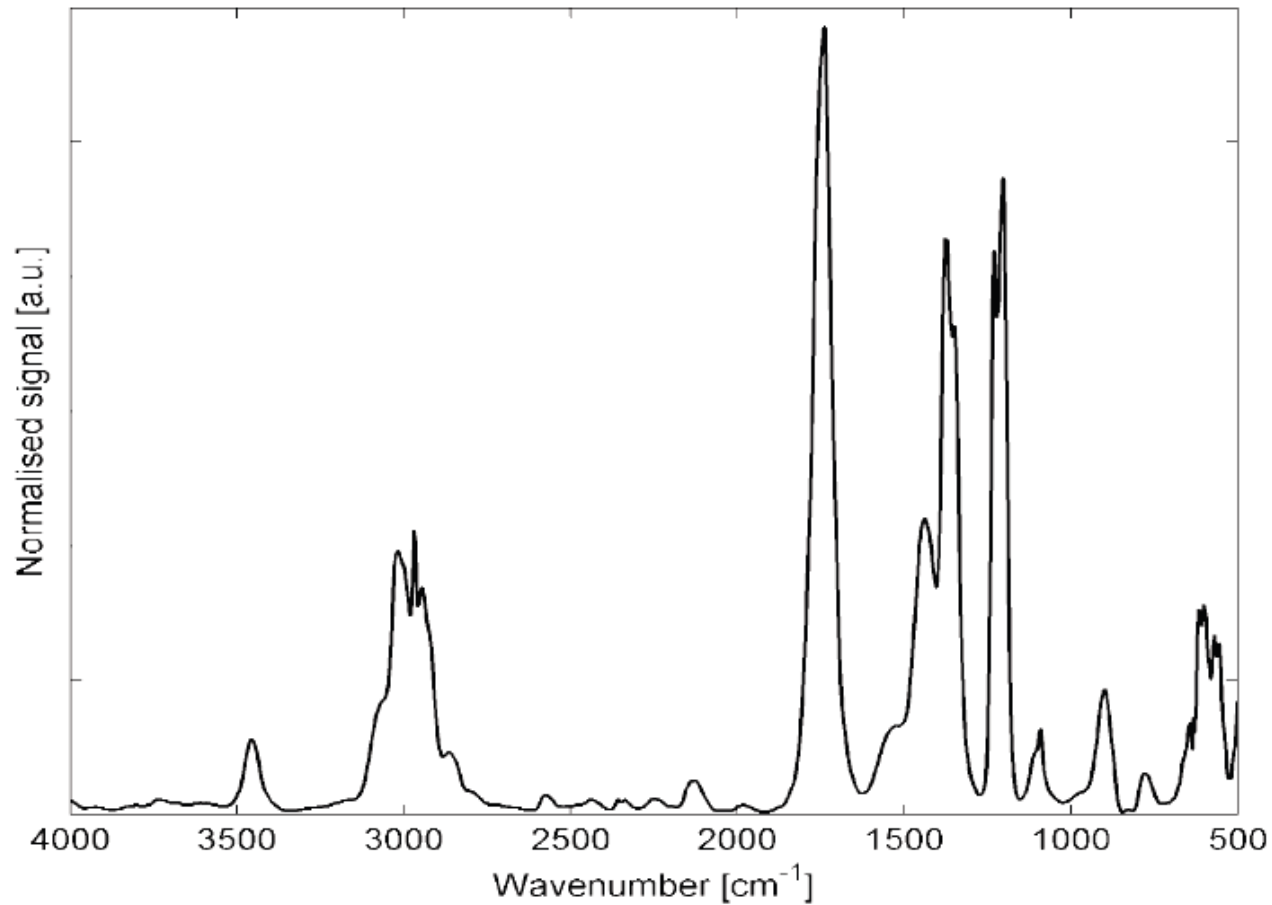
Resolution: 8 cm<sup>-1</sup>

HeNe laser frequency: 2.5 kHz

Measurement time: 25 seconds

Atmosphere: Helium

Pressure: 1 atm



## Parameters:

Sample: **Cotton**

FTIR device: Thermo Antaris

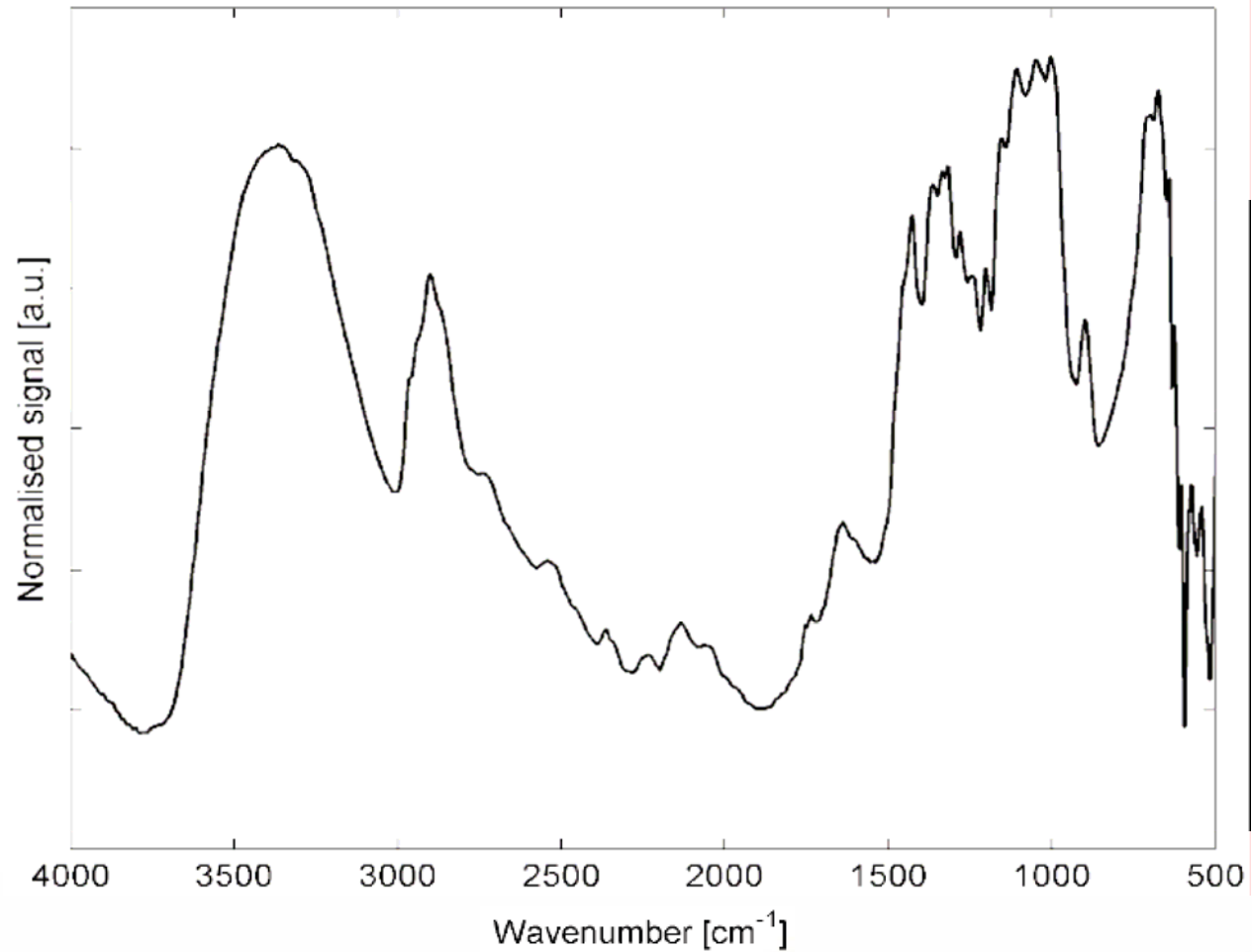
Resolution: 8 cm<sup>-1</sup>

HeNe laser frequency: 2.5 kHz

Measurement time: 25 seconds

Atmosphere: Helium

Pressure: 1 atm



## Parameters:

Sample: **Wood** (cotton bud)

FTIR device: Thermo Antaris

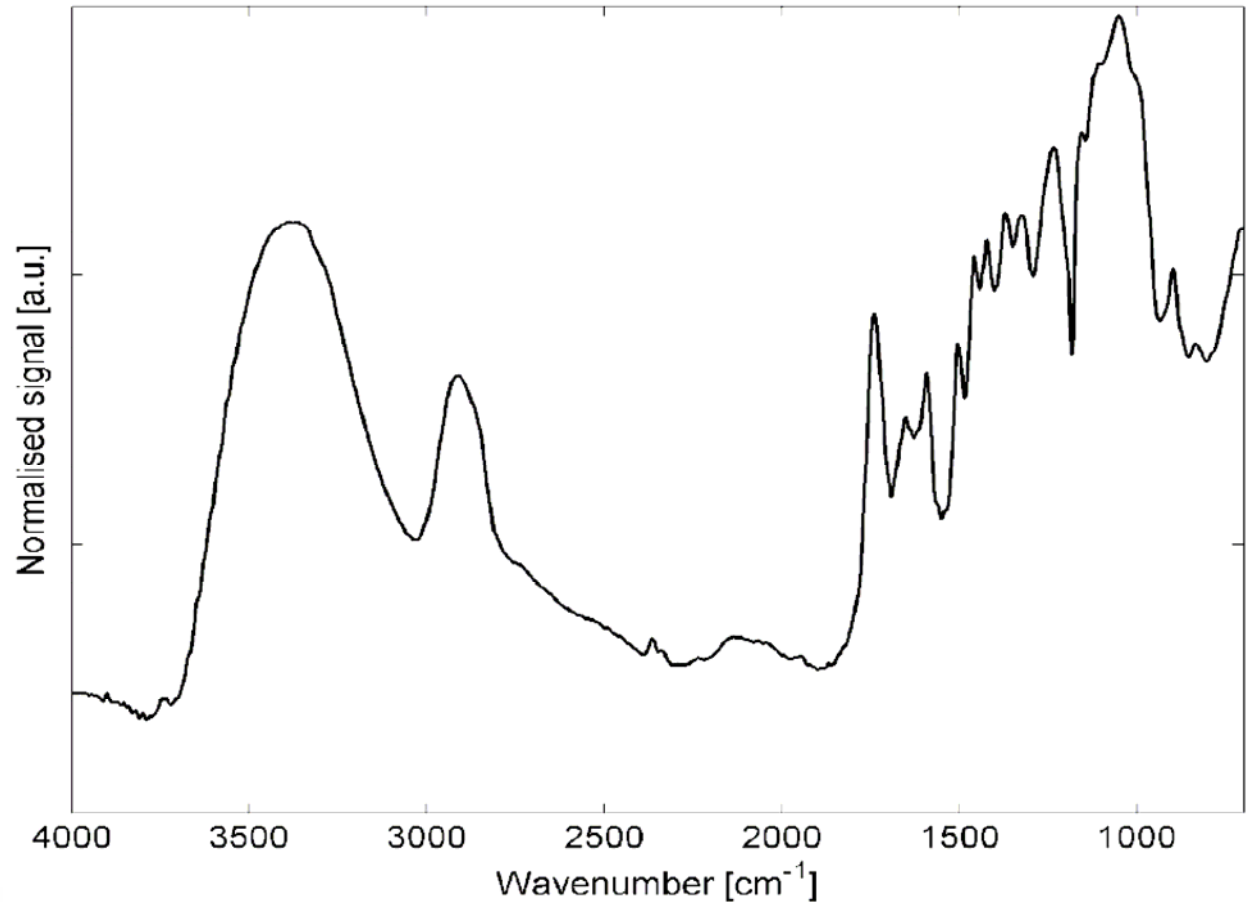
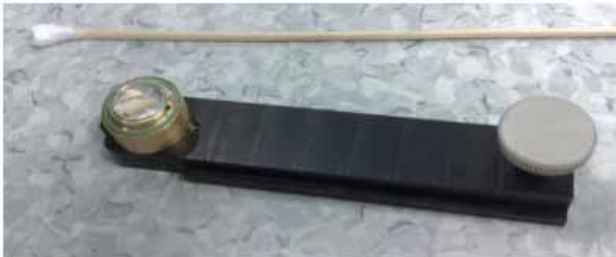
Resolution: 8 cm<sup>-1</sup>

HeNe laser frequency: 2.5 kHz

Measurement time: 25 seconds

Atmosphere: Helium

Pressure: 1 atm



## Parameters:

Sample: **Wood** (stick)

FTIR device: Thermo Antaris

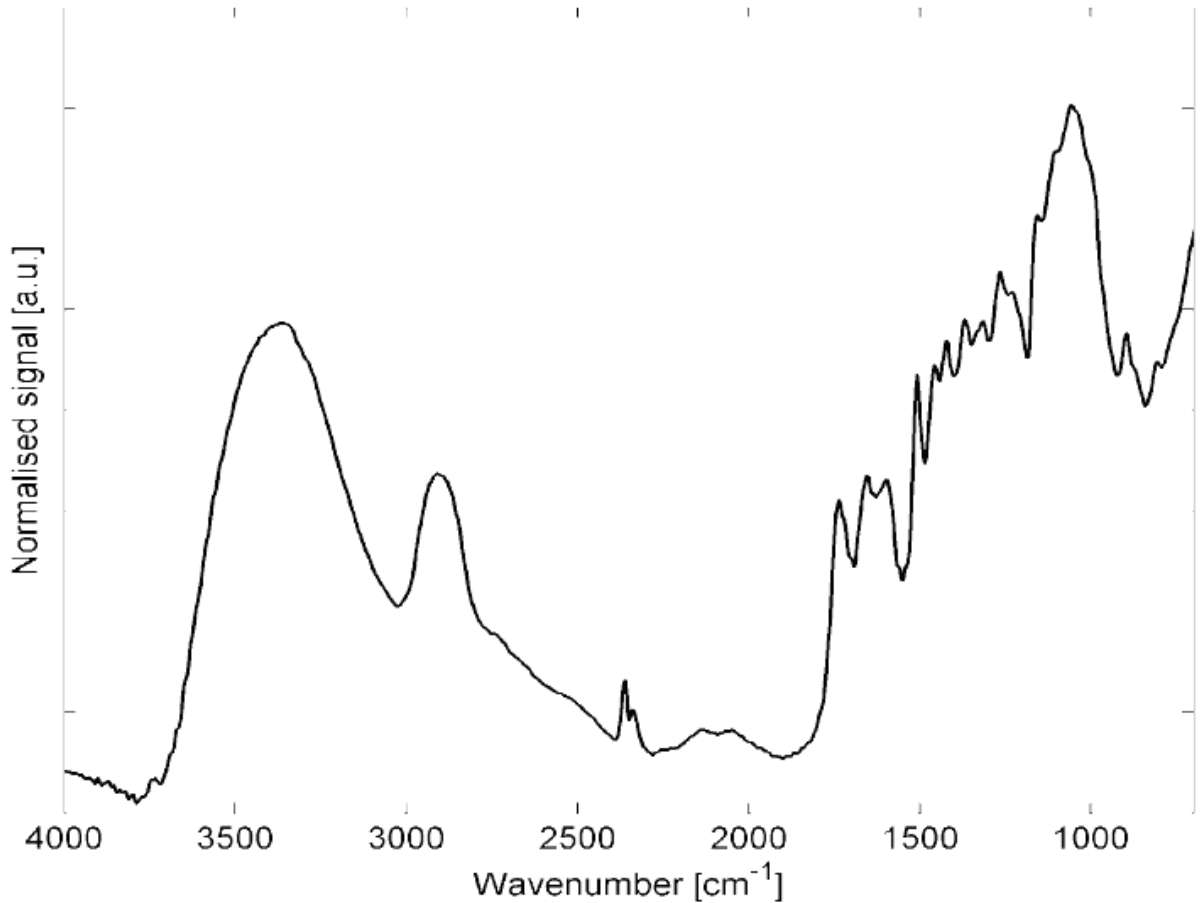
Resolution: 8 cm<sup>-1</sup>

HeNe laser frequency: 2.5 kHz

Measurement time: 25 seconds

Atmosphere: Helium

Pressure: 1 atm



## Parameters:

Sample: Toilet paper

FTIR device: Thermo Antaris

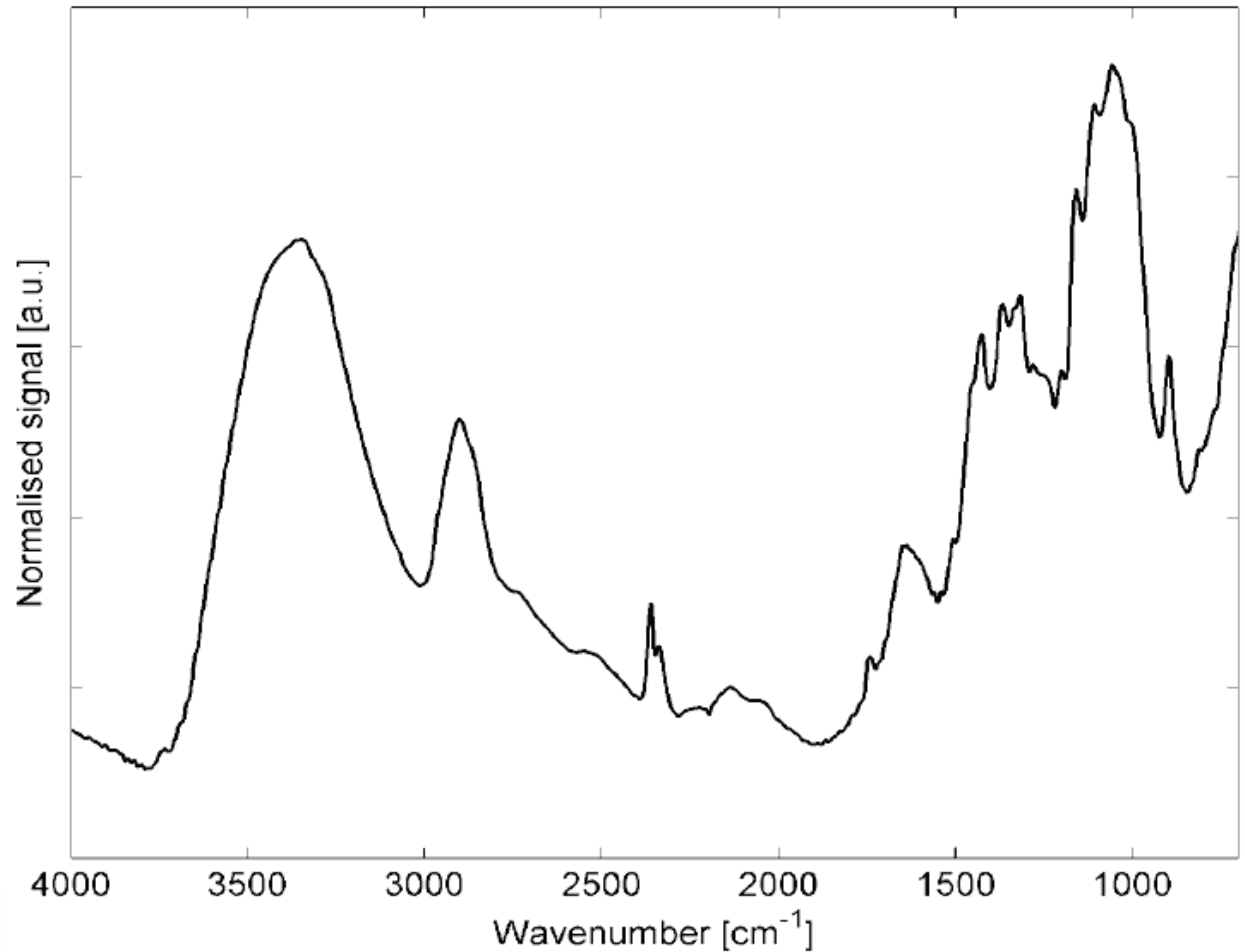
Resolution: 8 cm<sup>-1</sup>

HeNe laser frequency: 2.5 kHz

Measurement time: 25 seconds

Atmosphere: Helium

Pressure: 1 atm



## Parameters:

Sample: **Post-it-paper**

FTIR device: Thermo Antaris

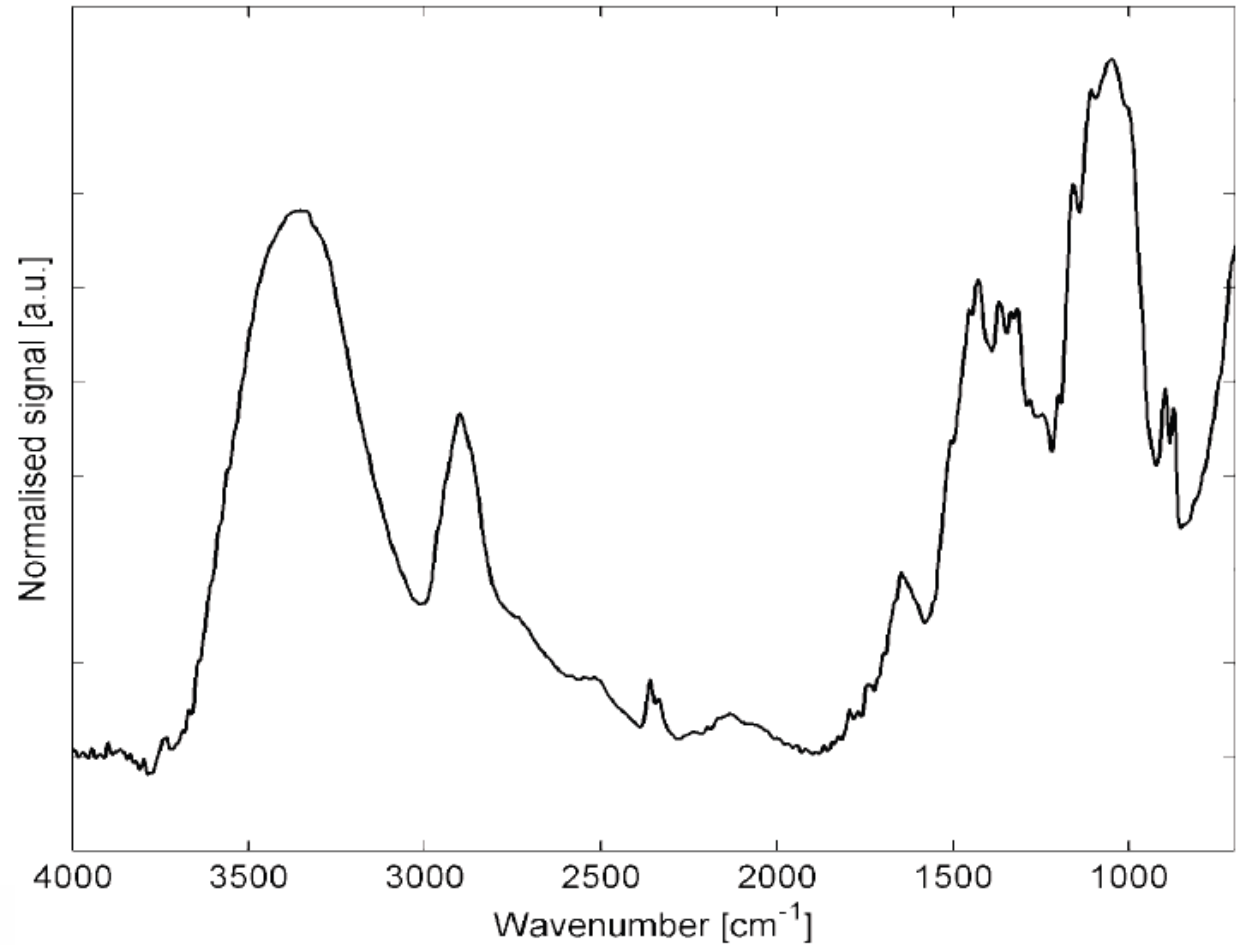
Resolution: 8 cm<sup>-1</sup>

HeNe laser frequency: 2.5 kHz

Measurement time: 25 seconds

Atmosphere: Helium

Pressure: 1 atm



## Parameters:

Sample: Bitumen

FTIR device: Thermo Antaris

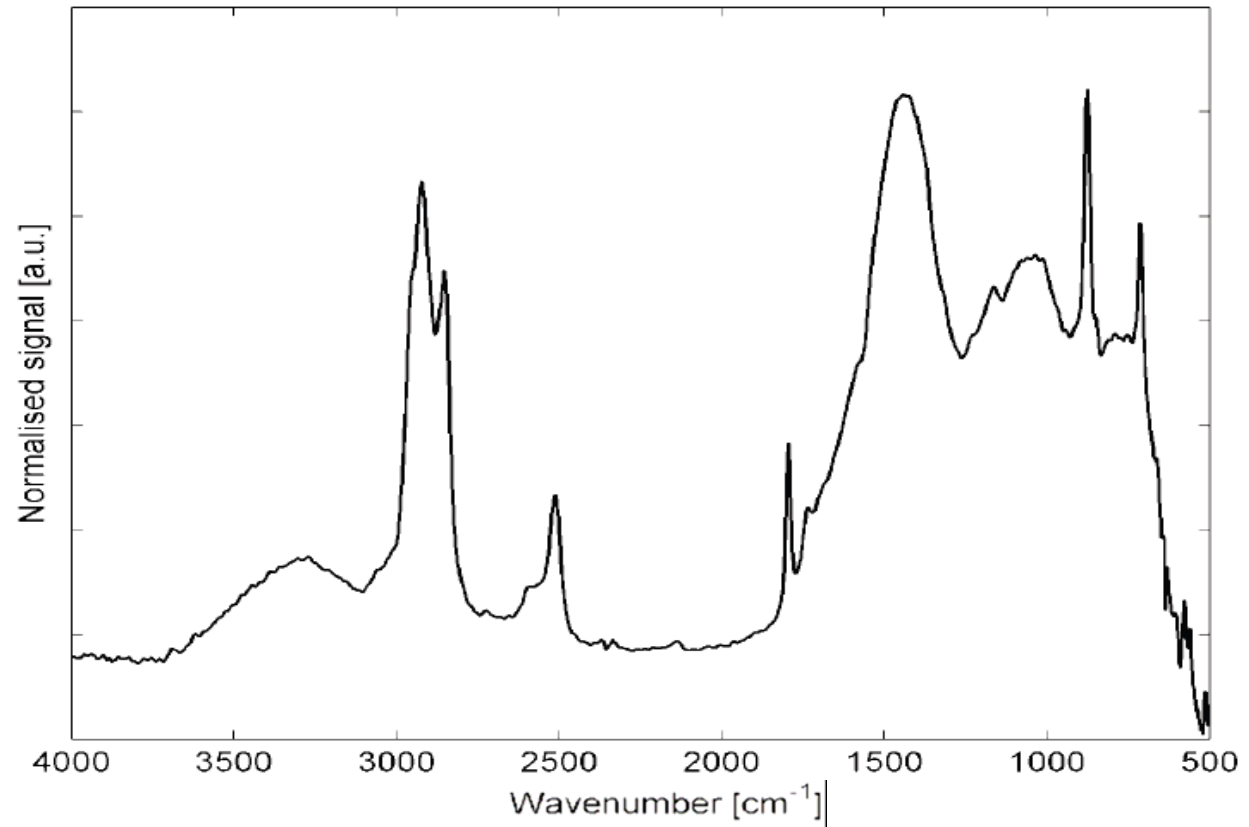
Resolution: 8 cm<sup>-1</sup>

HeNe laser frequency: 2.5 kHz

Measurement time: 250 seconds

Atmosphere: Helium

Pressure: 1 atm



## Parameters:

Sample: **Aspirin tablet**

FTIR device: Thermo Antaris

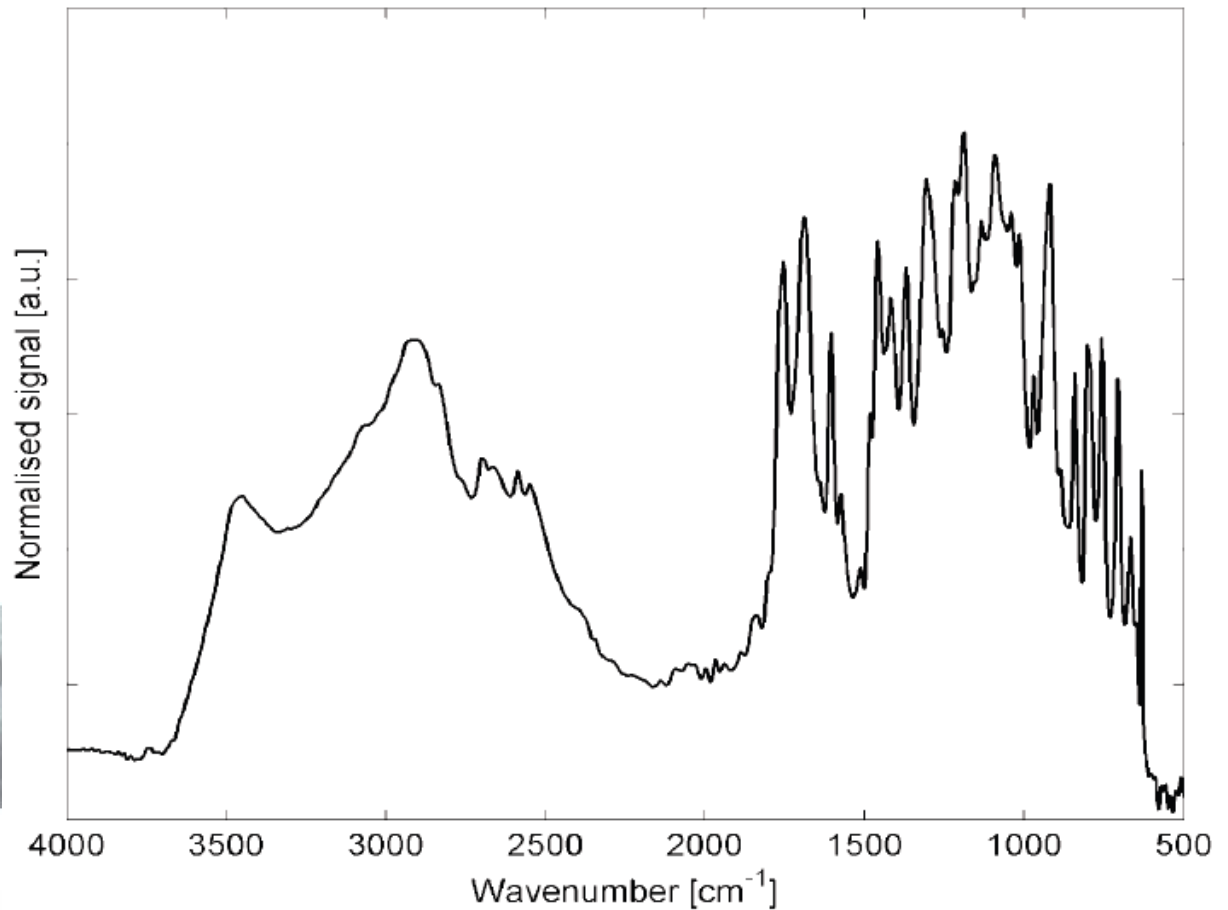
Resolution: 8 cm<sup>-1</sup>

HeNe laser frequency: 2.5 kHz

Measurement time: 250 seconds

Atmosphere: Helium

Pressure: 1 atm



## Parameters:

Sample: **Benadril slice**

FTIR device: Thermo Antaris

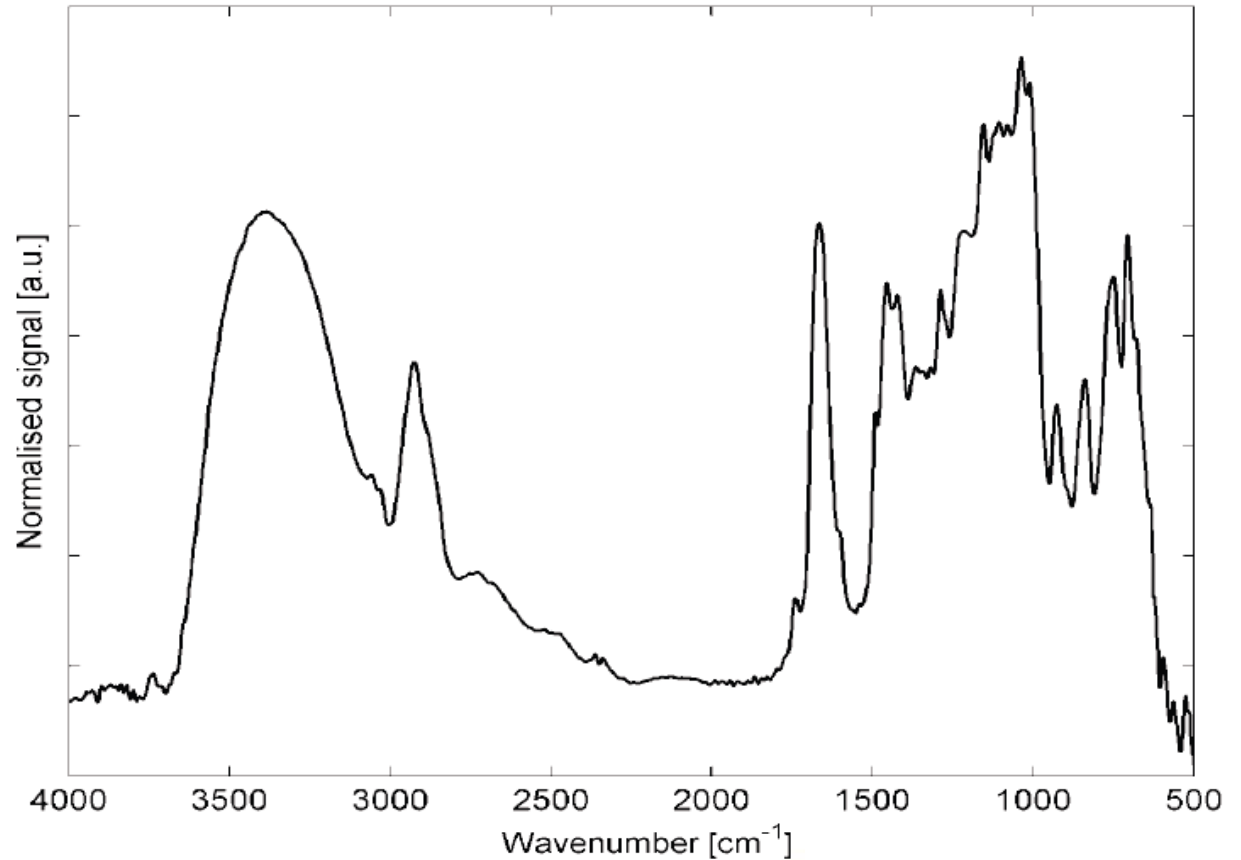
Resolution: 8 cm<sup>-1</sup>

HeNe laser frequency: 2.5 kHz

Measurement time: 25 seconds

Atmosphere: Helium

Pressure: 1 atm



## Parameters:

Sample: Human skin

FTIR device: Thermo Antaris

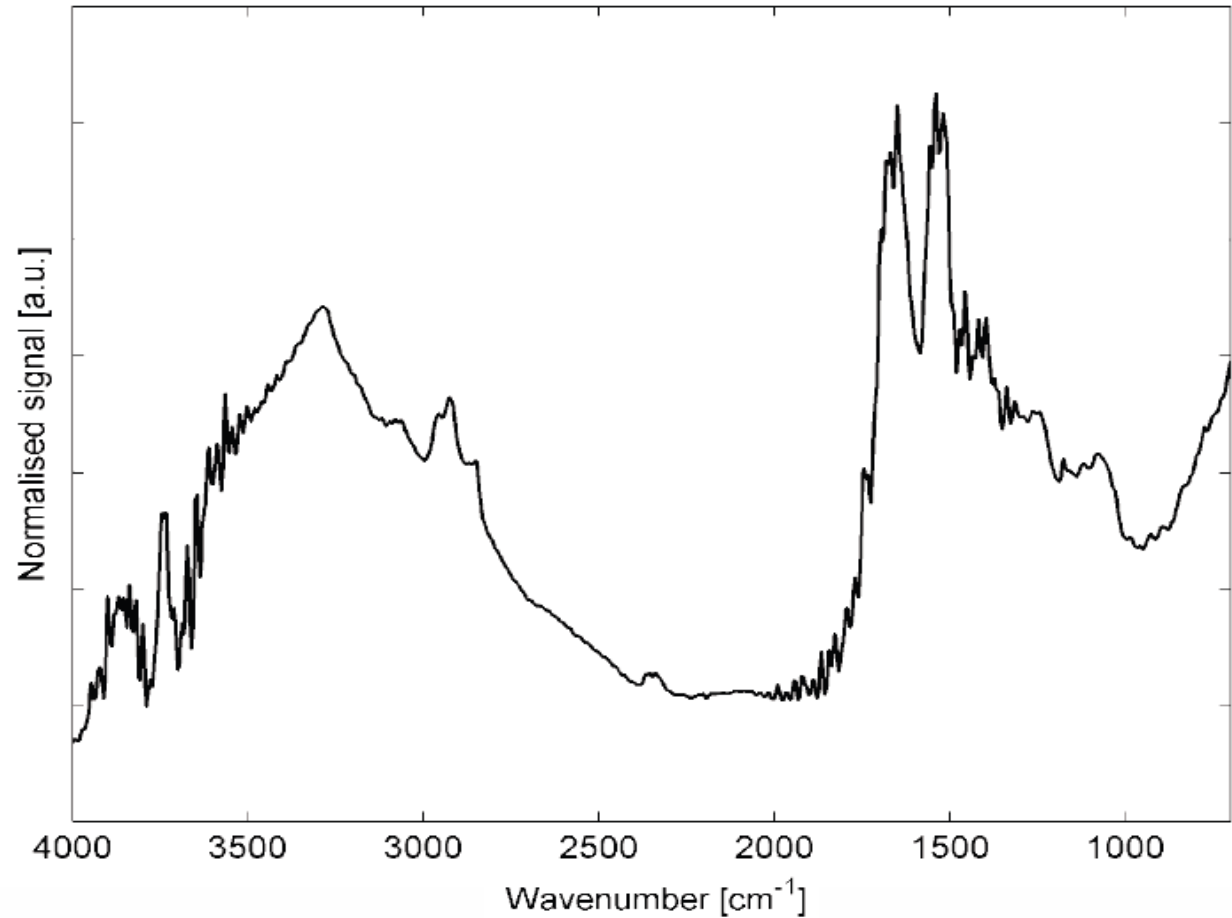
Resolution: 8 cm<sup>-1</sup>

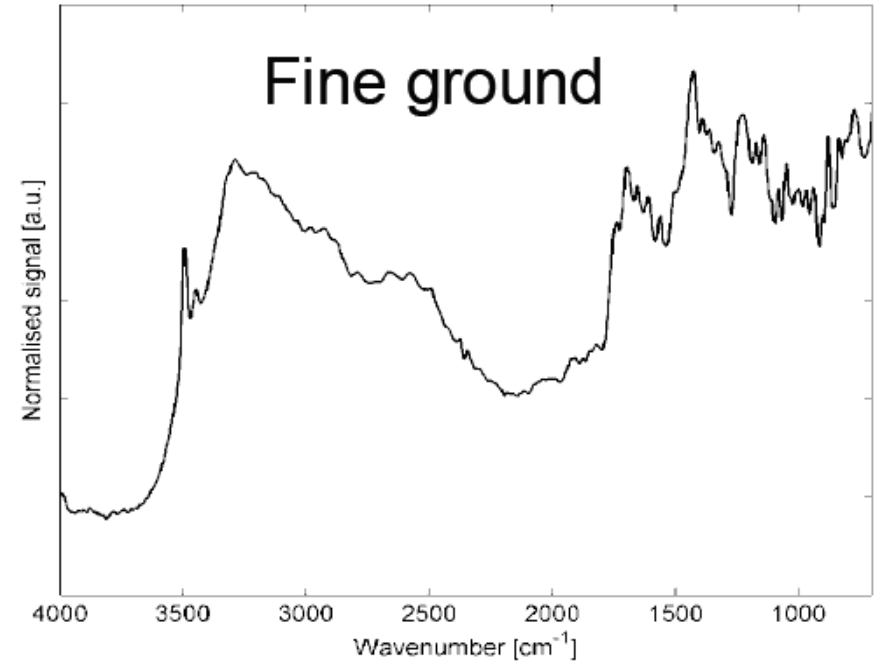
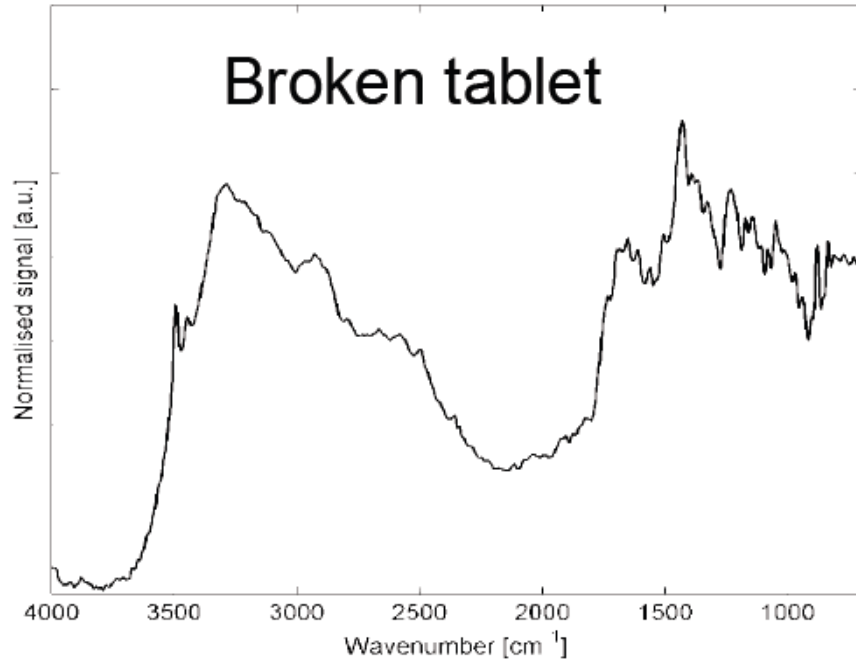
HeNe laser frequency: 2.5 kHz

Measurement time: 25 seconds

Atmosphere: Helium

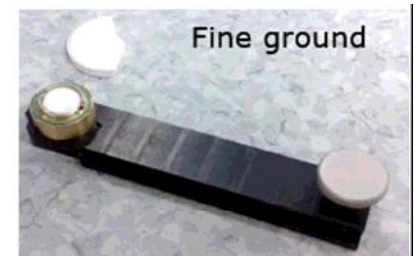
Pressure: 1 atm



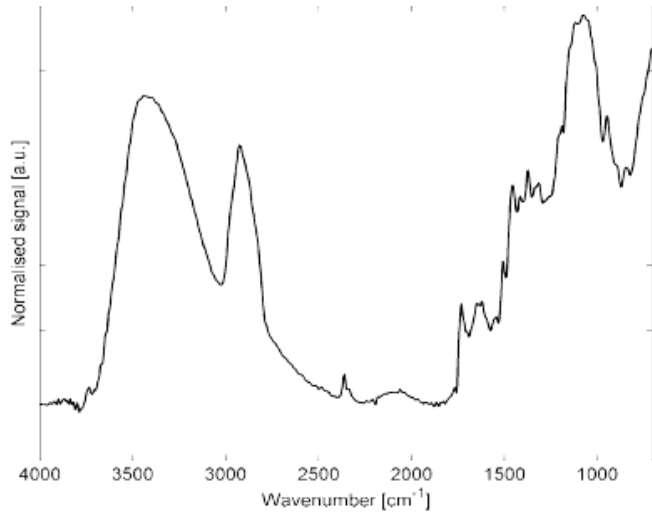


### Parameters:

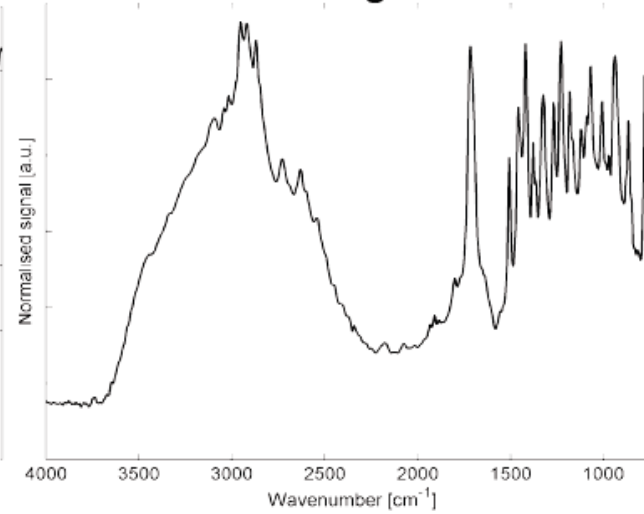
Sample: **Alka-Seltzer Plus Cold**  
 FTIR device: Thermo Antaris  
 Resolution: 8 cm<sup>-1</sup>  
 HeNe laser frequency: 2.5 kHz  
 Measurement time: 25 seconds  
 Atmosphere: Helium  
 Pressure: 1 atm



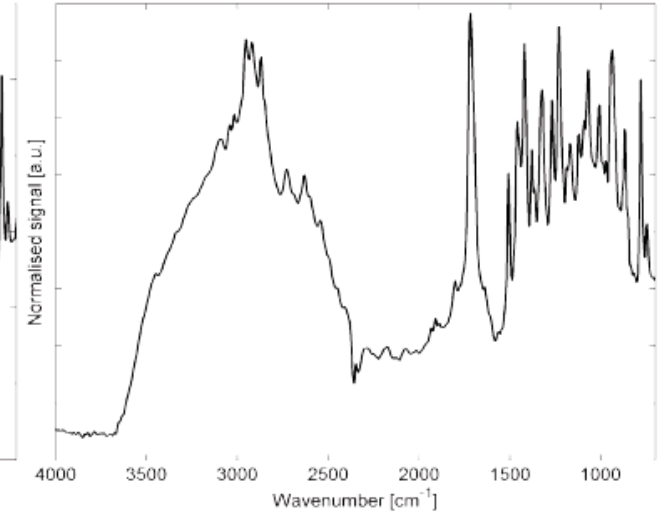
Broken tablet



Coarse ground



Fine ground



## Parameters:

Sample: **Ibuprofen**

FTIR device: Thermo Antaris

Resolution: 8 cm<sup>-1</sup>

HeNe laser frequency: 2.5 kHz

Measurement time: 25 seconds

Atmosphere: Helium

Pressure: 1 atm