

# Results of contactless and non-invasive analysis: overview

**Project:** Digitization / Cataloguing of non-textual objects:  
Description and Digitization of Precious Book Covers as Independent Works of Art.  
Project-Period: 01.10.2014 - 30.09.2017

**Shelfmark:** Munich, Bayerische Staatsbibliothek, Cod.sanscr. 600

**Analytical methods:** X-Ray Fluorescence Spectroscopy (XRF): p. 2-10  
Fourier Transform Infrared Spectroscopy (FTIR): p. 11-16

**Contact:** Institute of Conservation and Restoration (IBR)  
of the Bayerische Staatsbibliothek, Munich

# XRF-Analysis: Mapping of measurement points and spectra

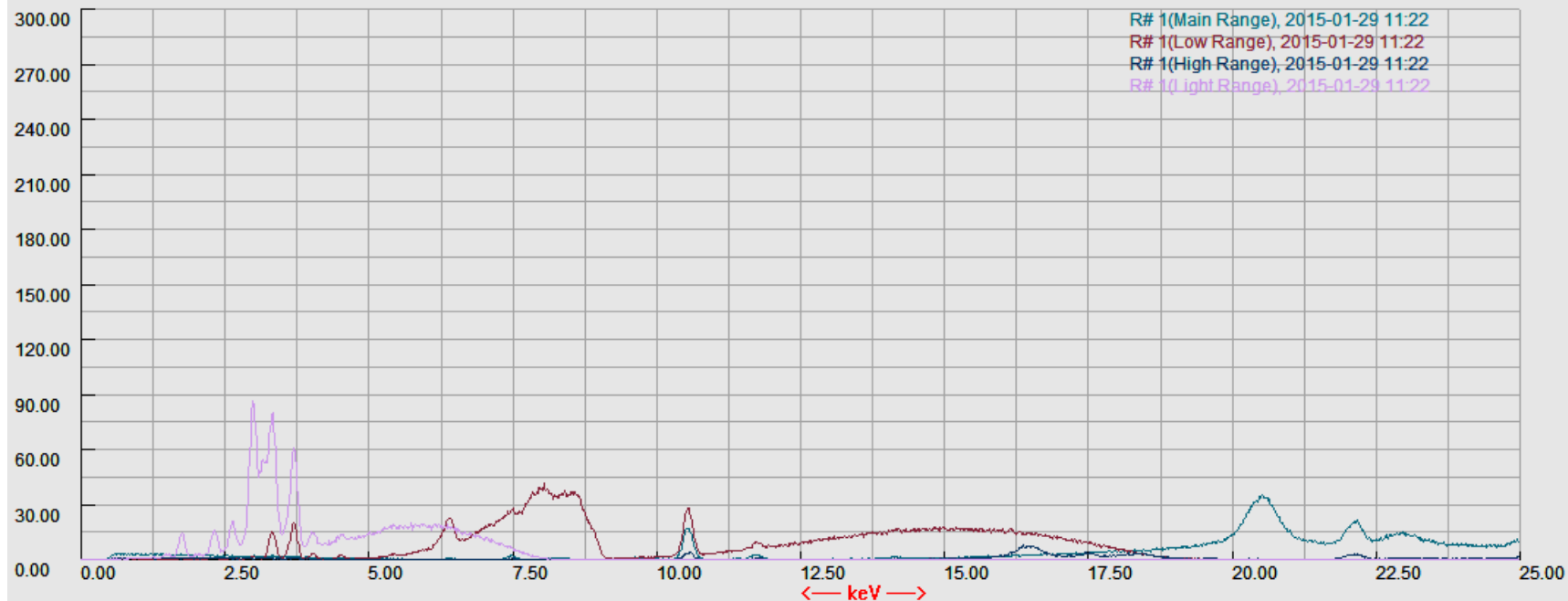
## Scanning parameters

Instrument: NITON XL3t GOLD D+  
Scanning mode: Mining (Cu, Zn)  
Spectral resolution:  $4 \text{ cm}^{-1}$   
Scan duration: 150 s

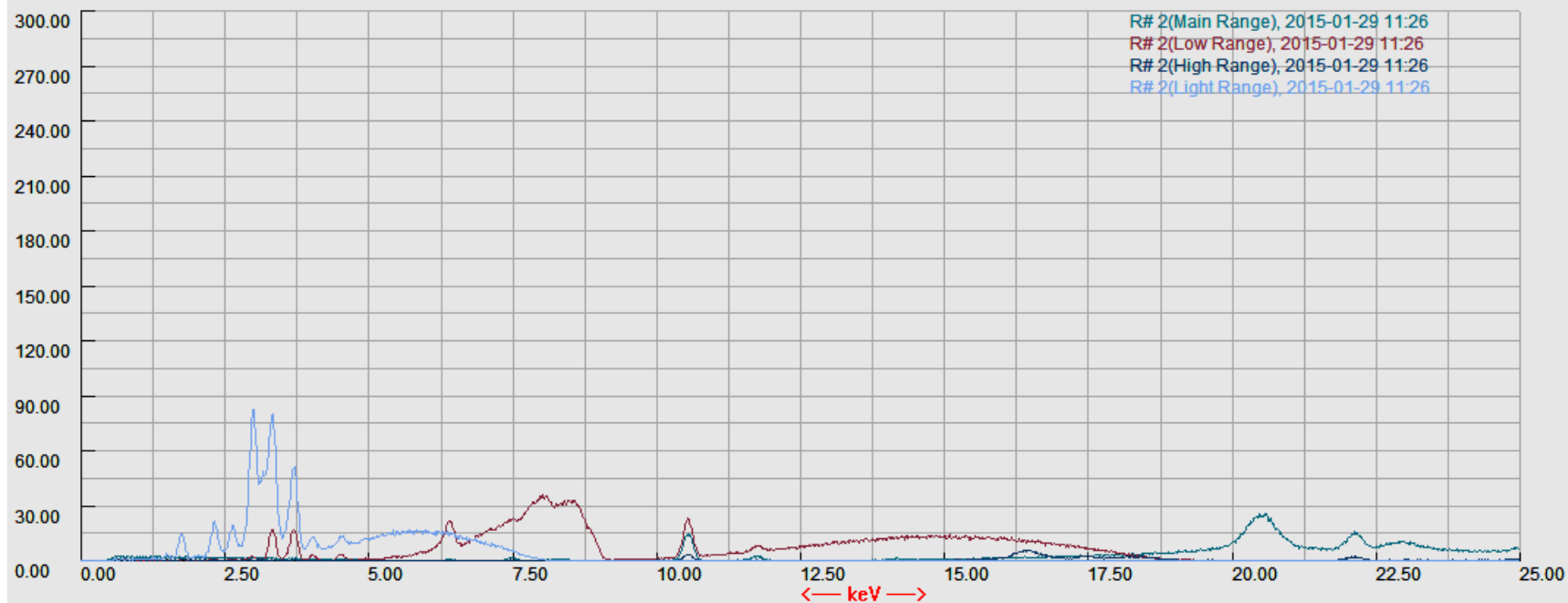
Spectra: #1 ... #15



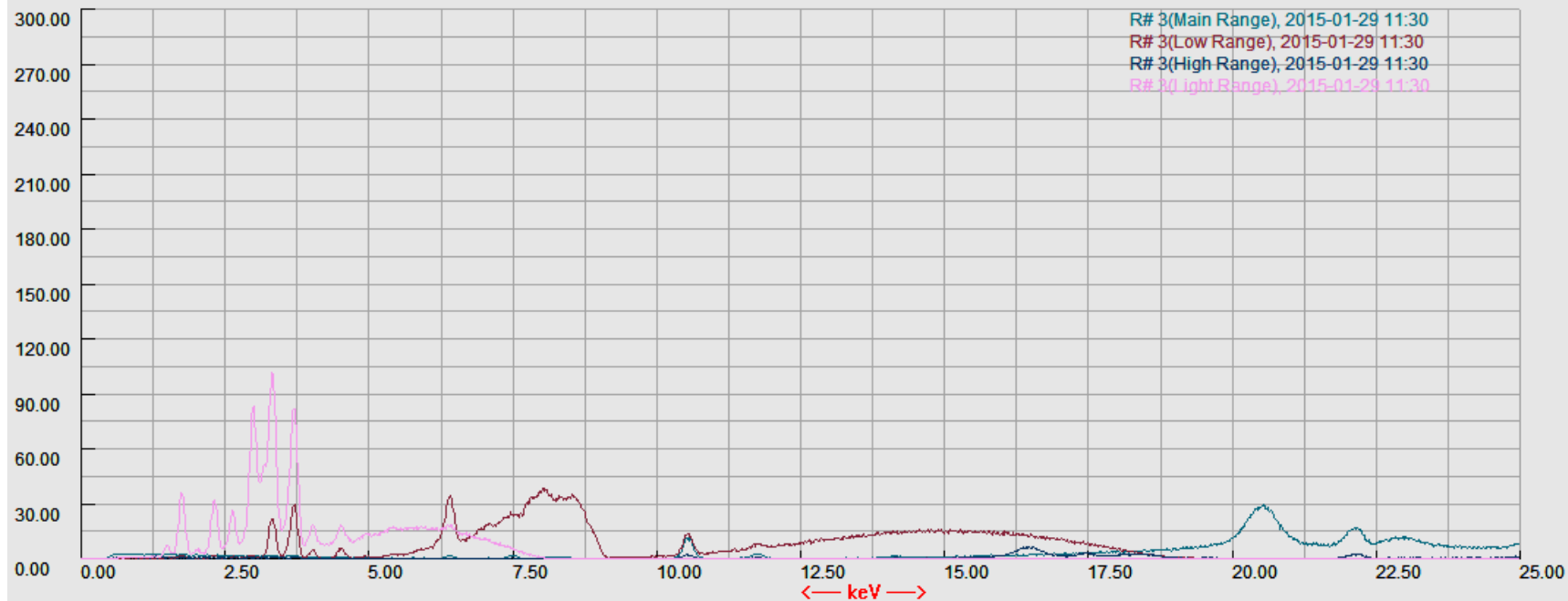
Counts/Sec



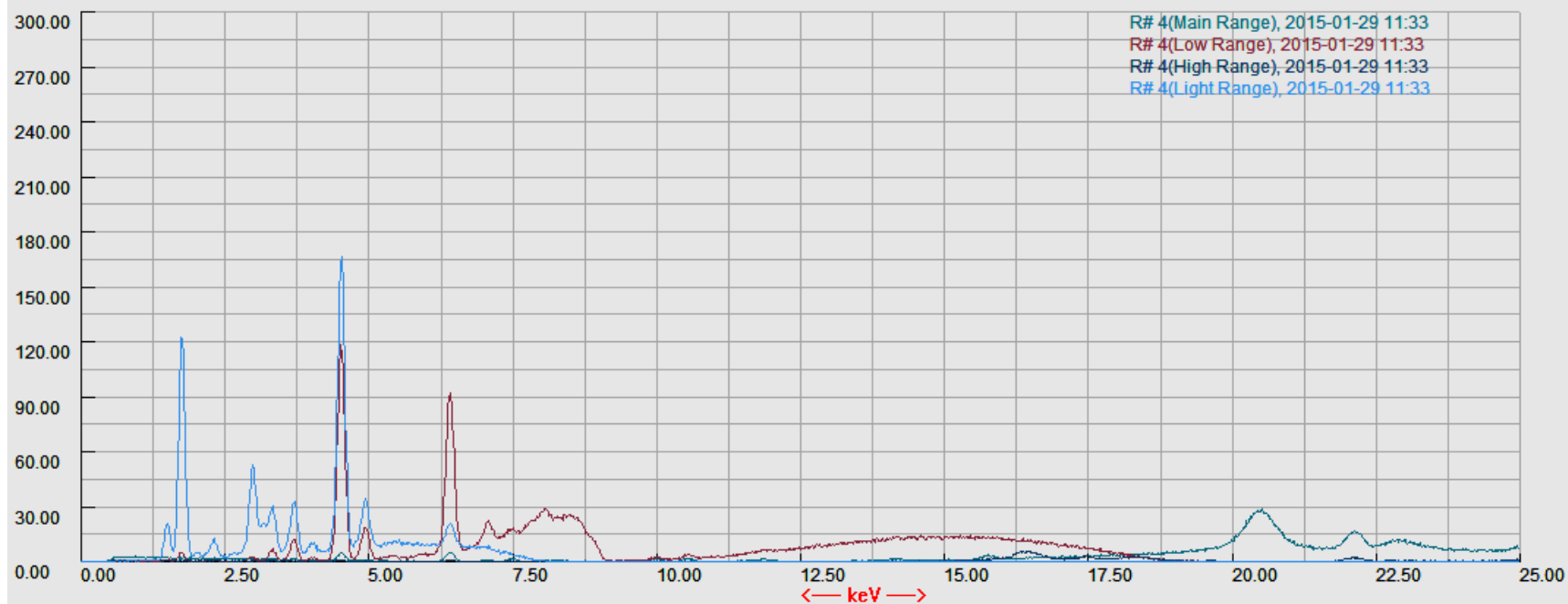
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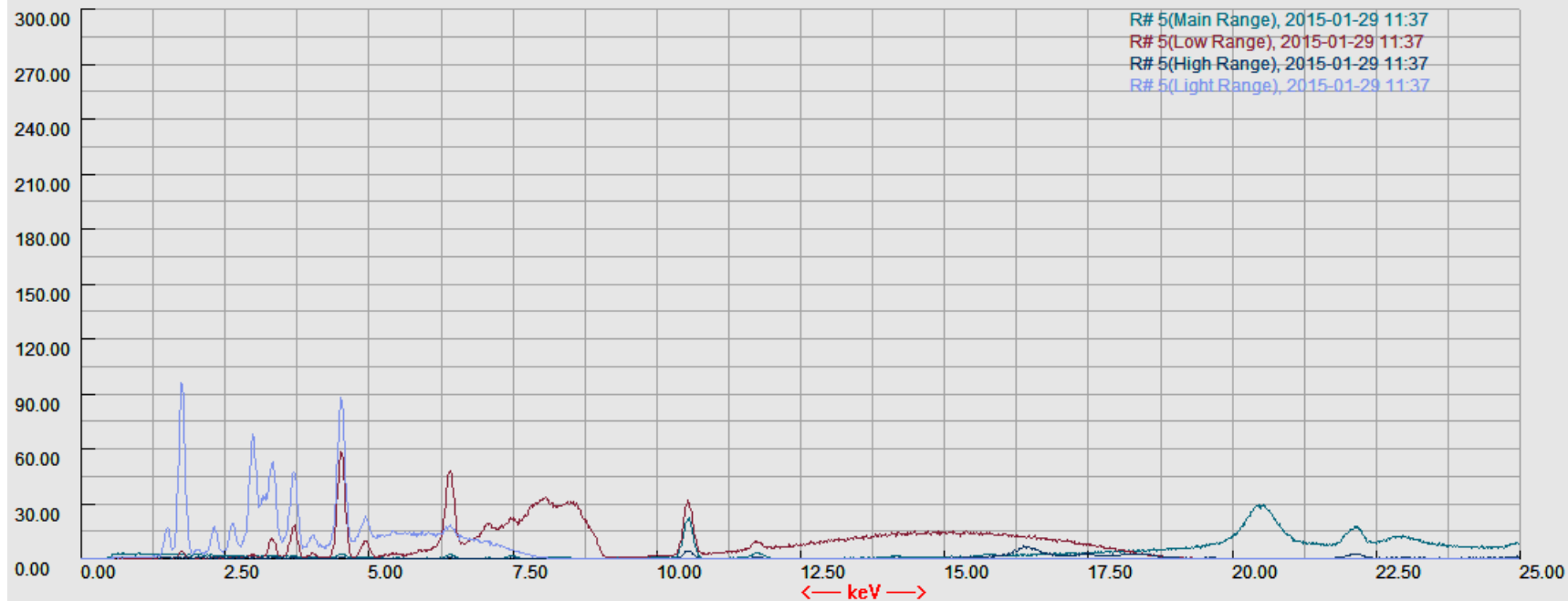
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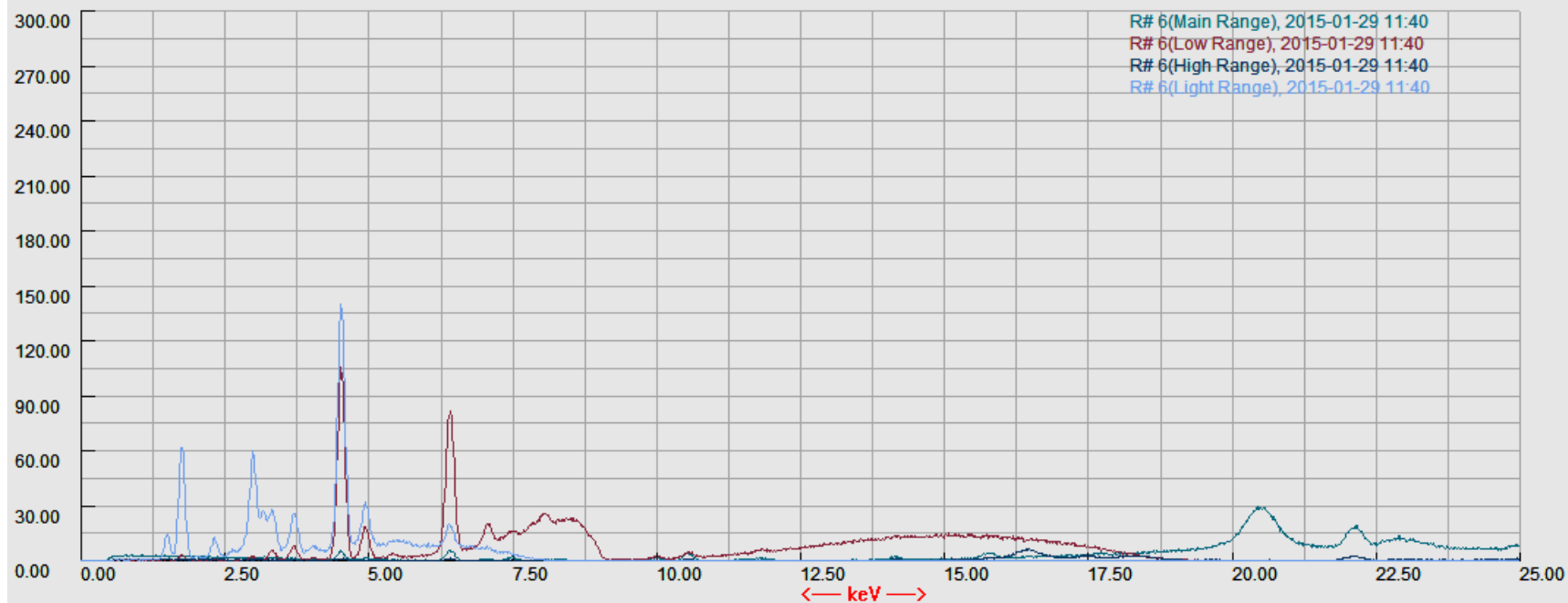
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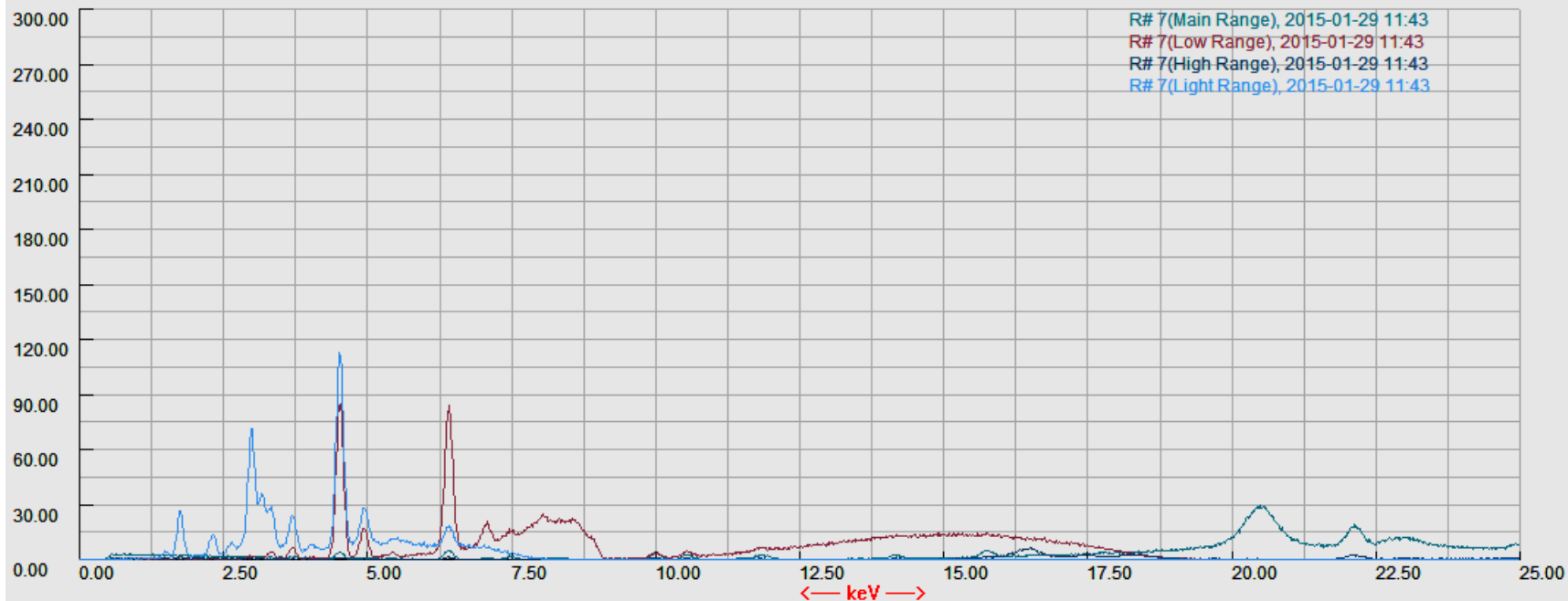
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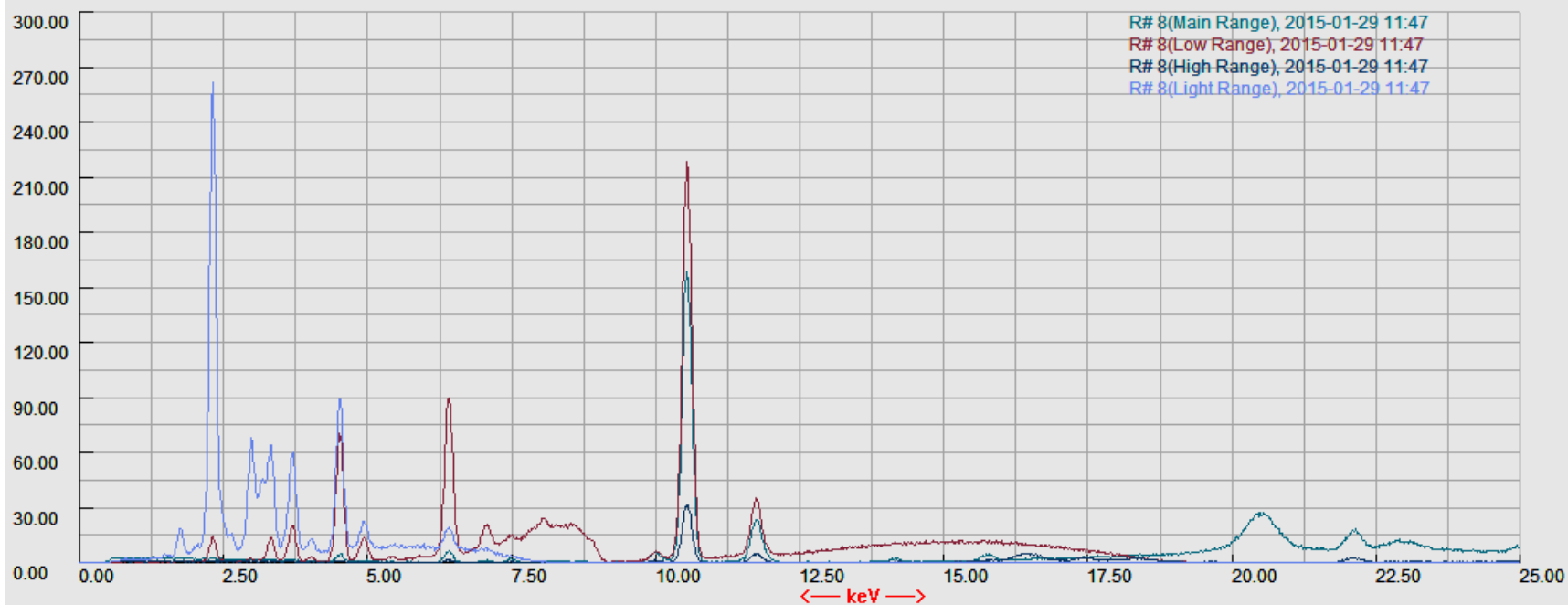
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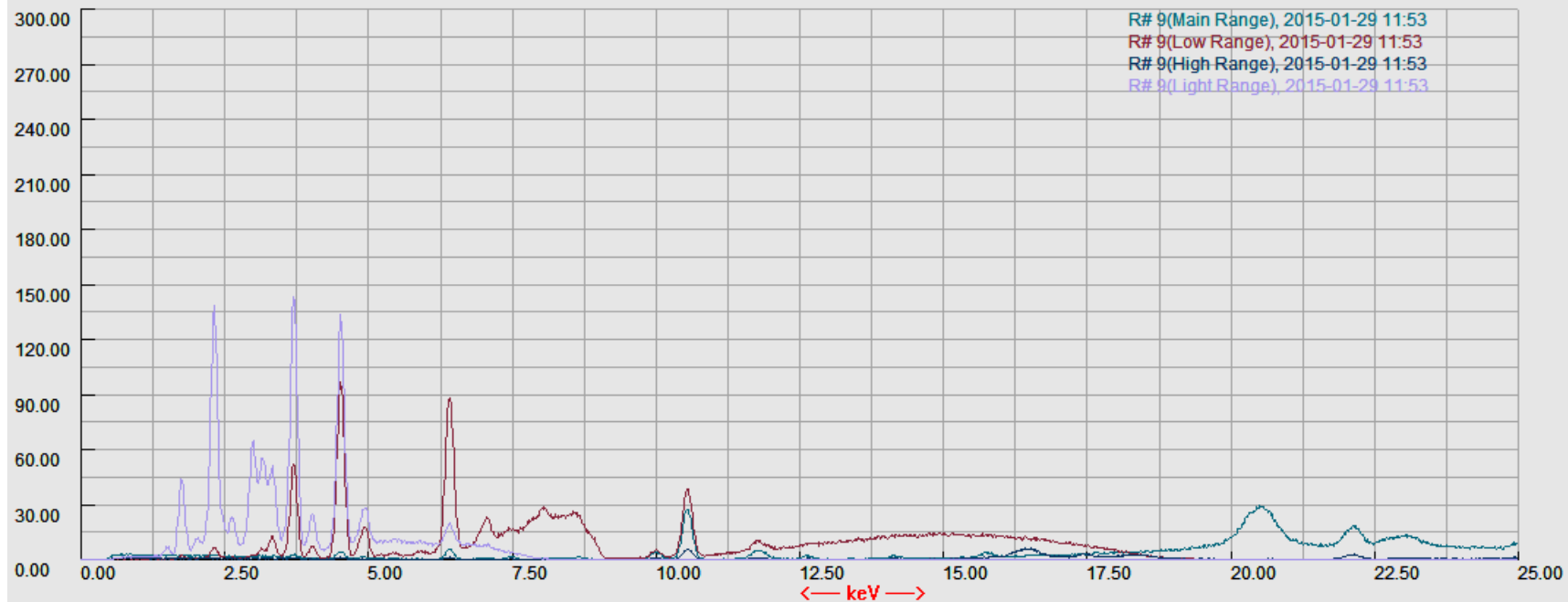
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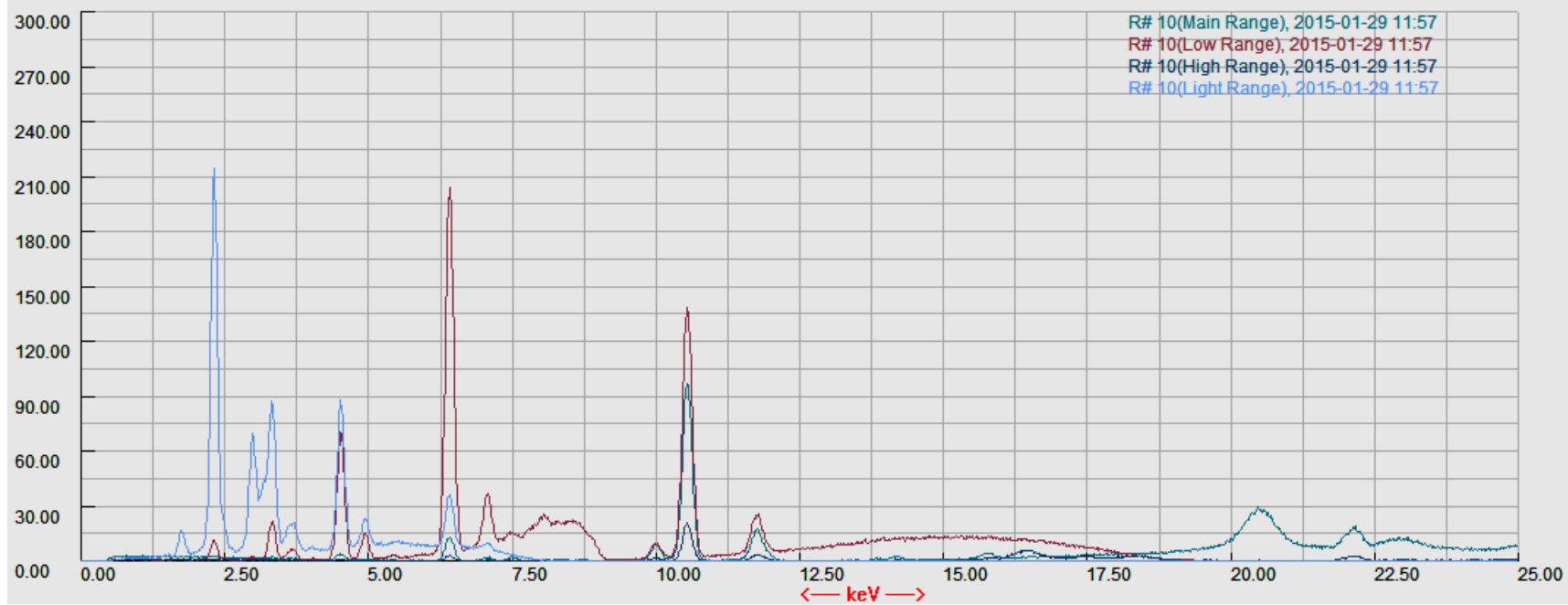
Counts/Sec



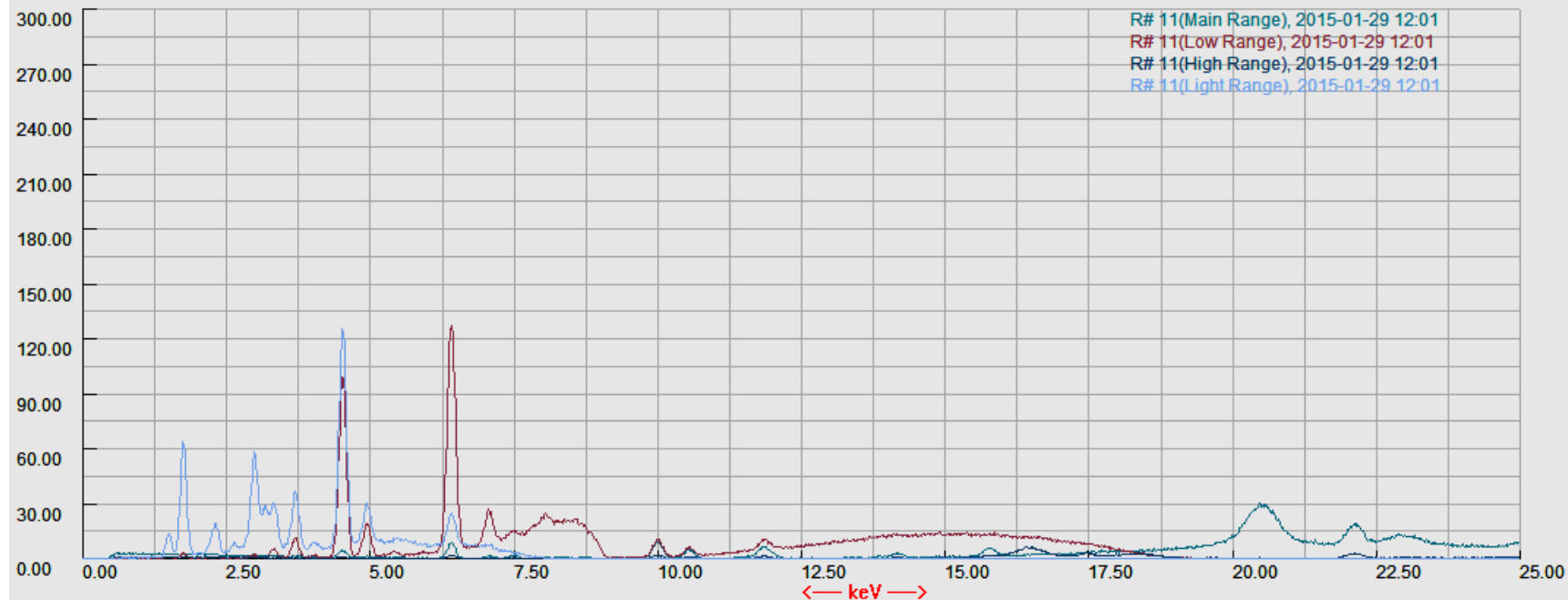
Counts/Sec



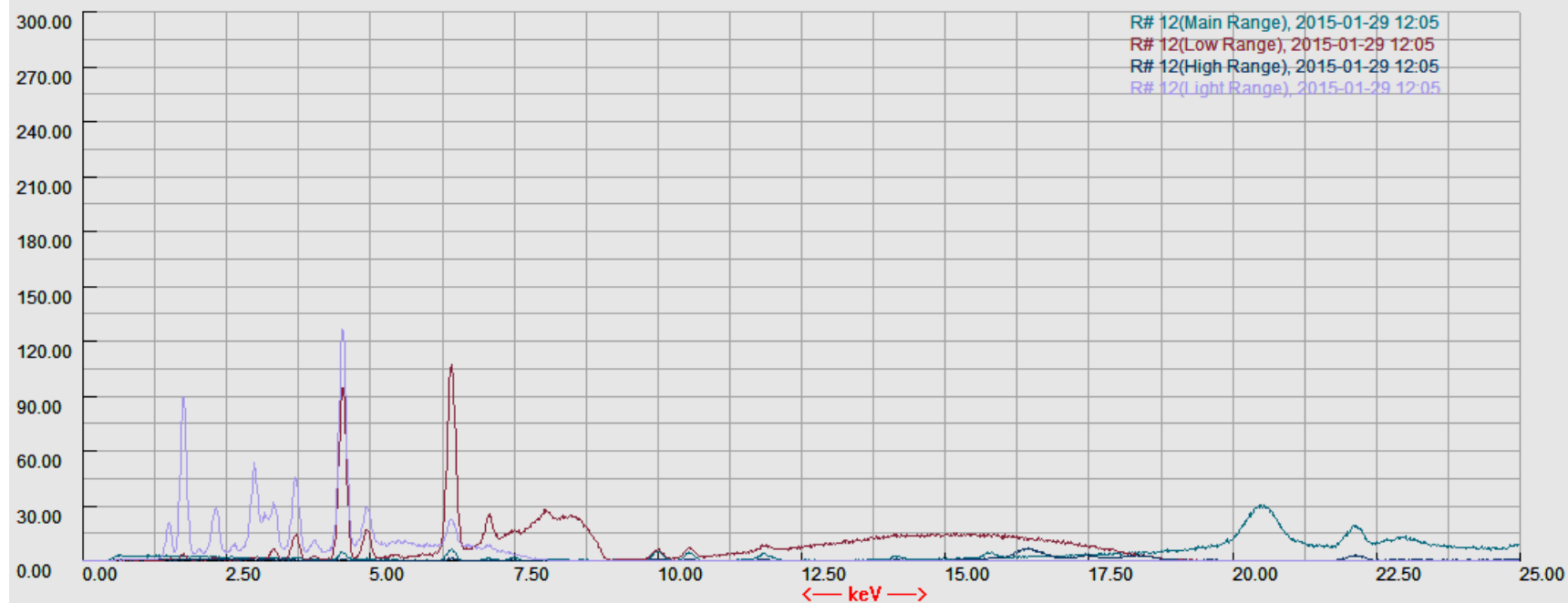
Counts/Sec



Counts/Sec

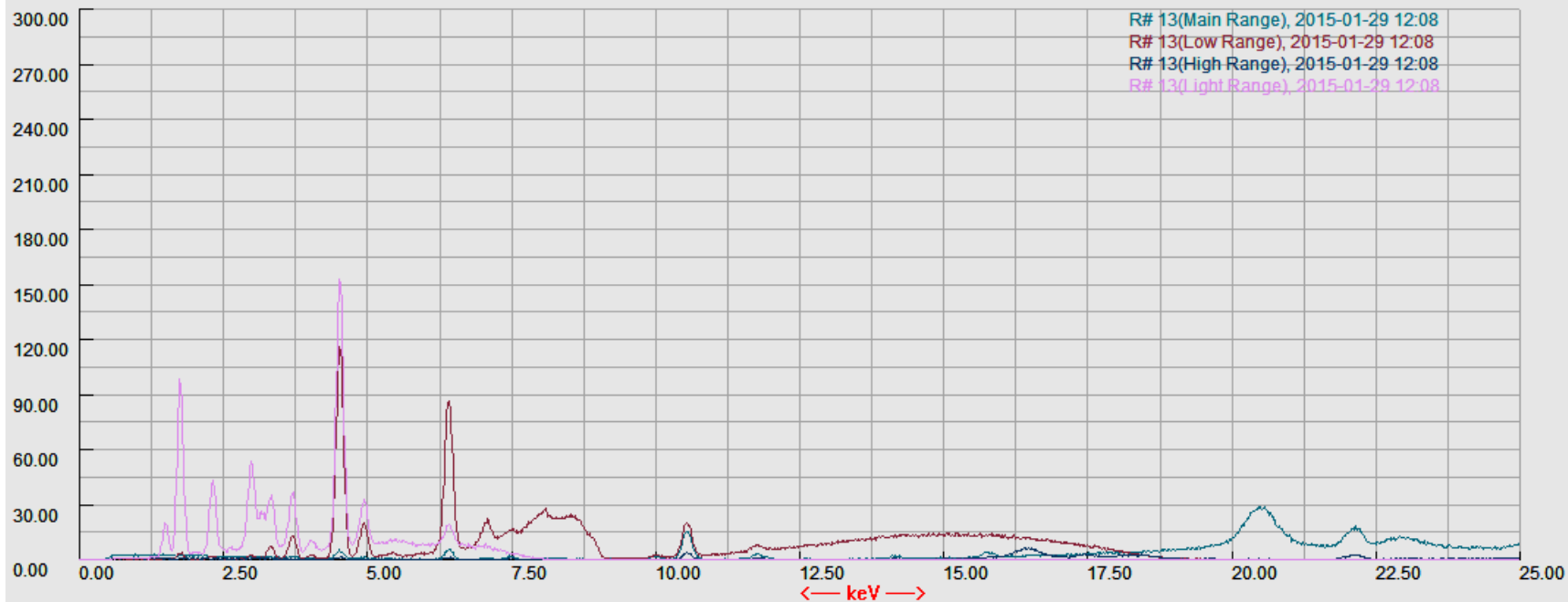


Counts/Sec

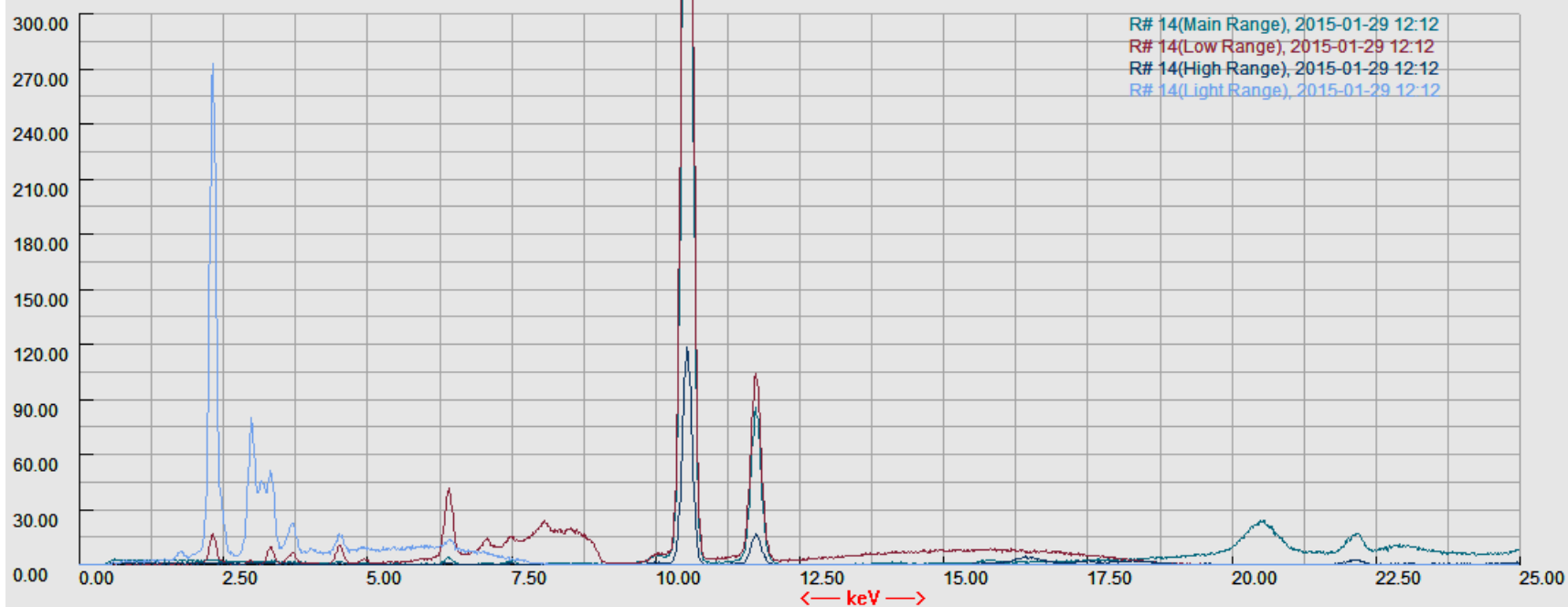


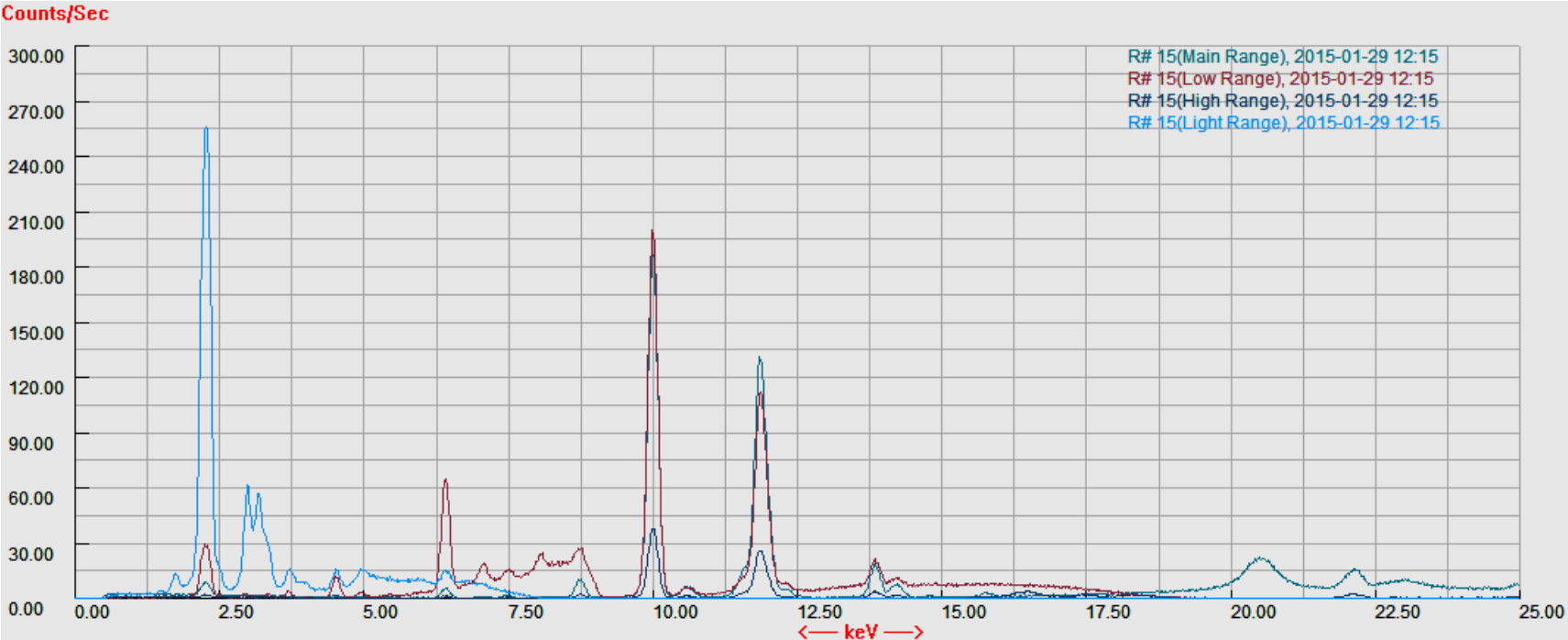


Counts/Sec



Counts/Sec





## FTIR-Analysis: Mapping of measurement points and spectra

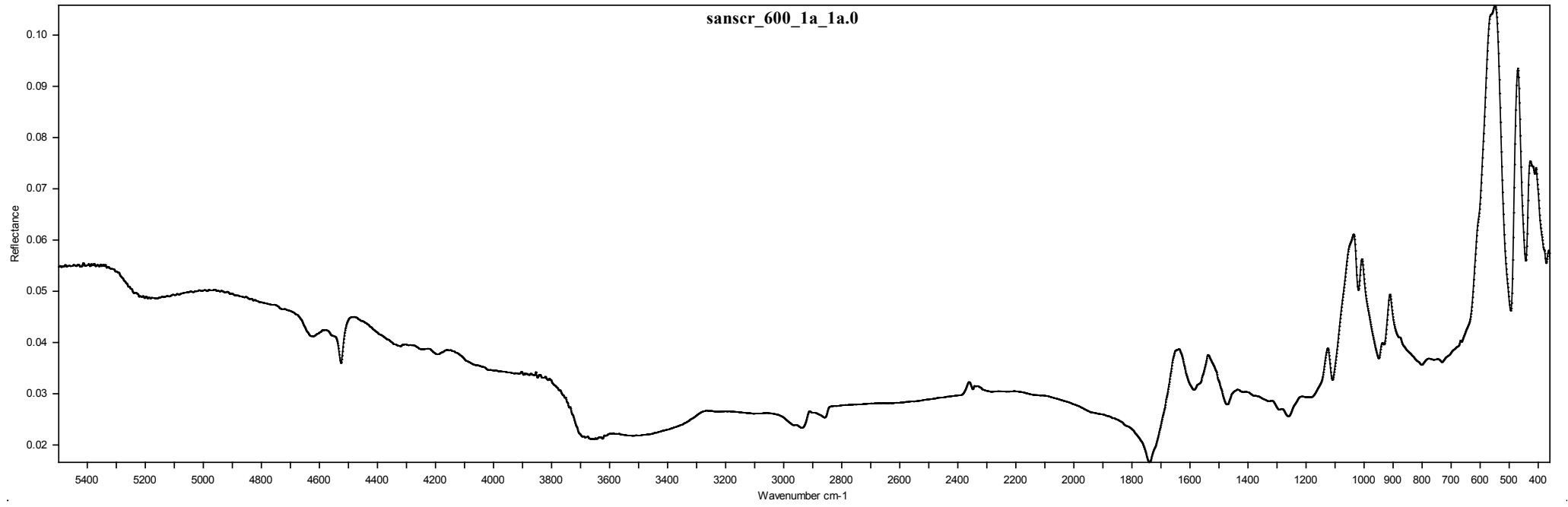
### Scanning parameters

Instrument: BRUKER ALPHA  
Scanning mode: FTIR external reflection mode  
Spectral resolution:  $4 \text{ cm}^{-1}$   
Spectral range:  $360\text{-}5400 \text{ cm}^{-1}$   
Scan duration: 240 scans

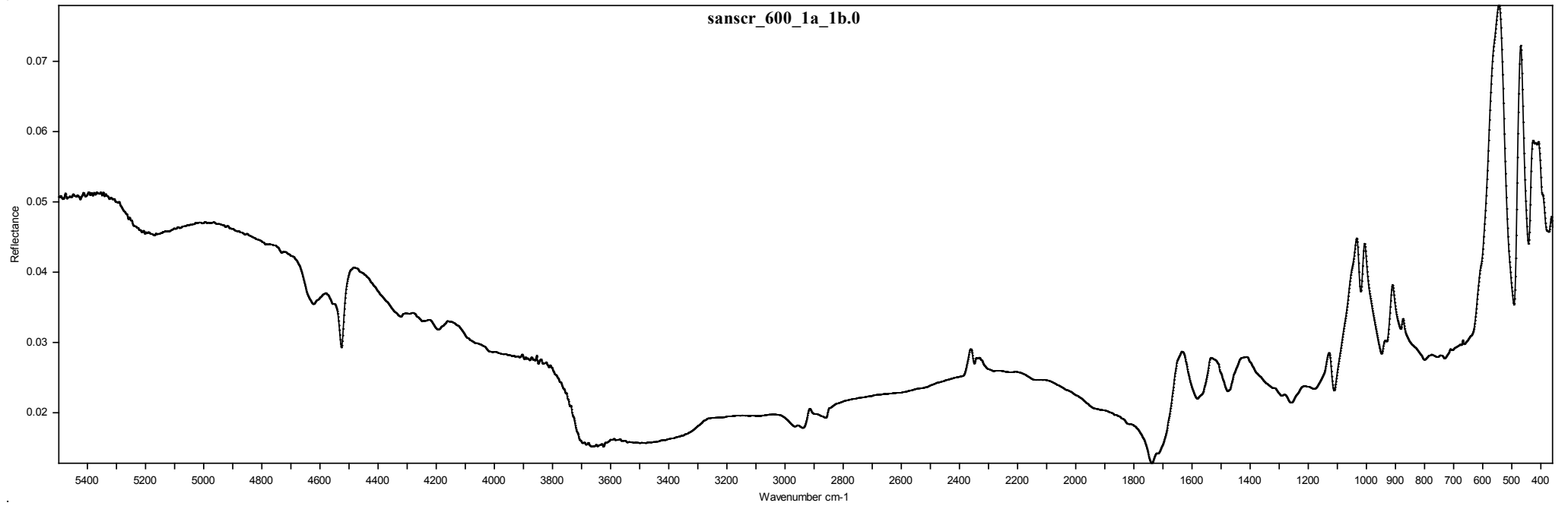
Spectra: sanscr\_600\_1a\_1a ... \_1i  
(filename description: signature\_bookcover 1/2, side a/b\_number of scan)

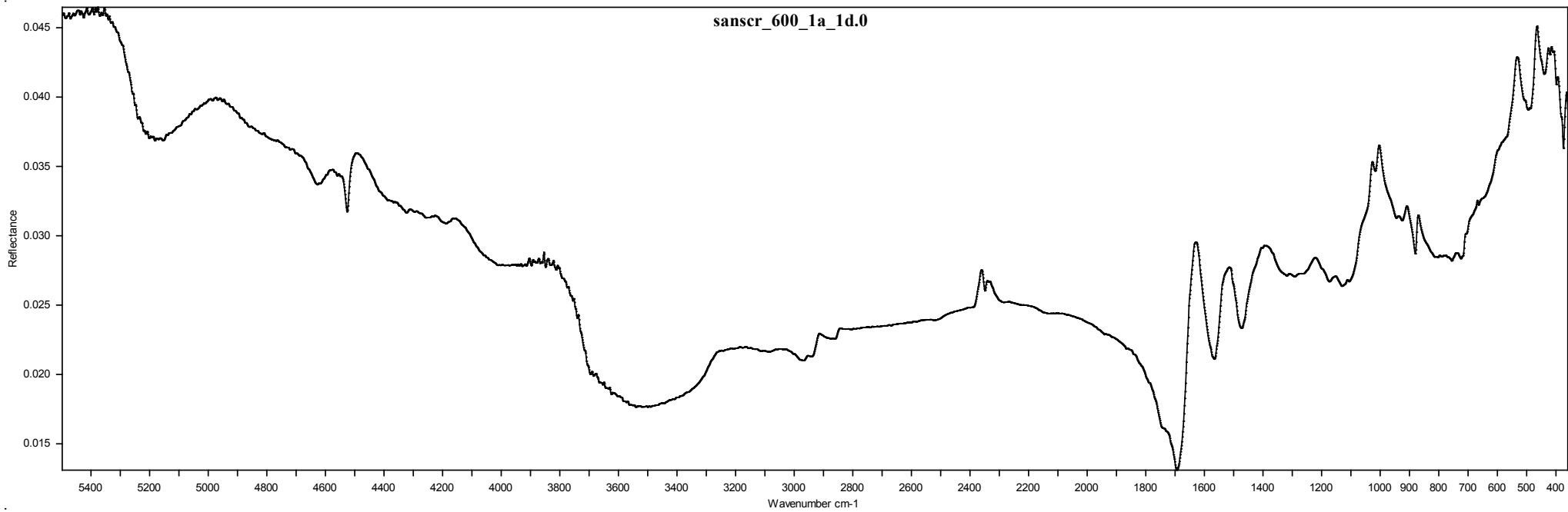
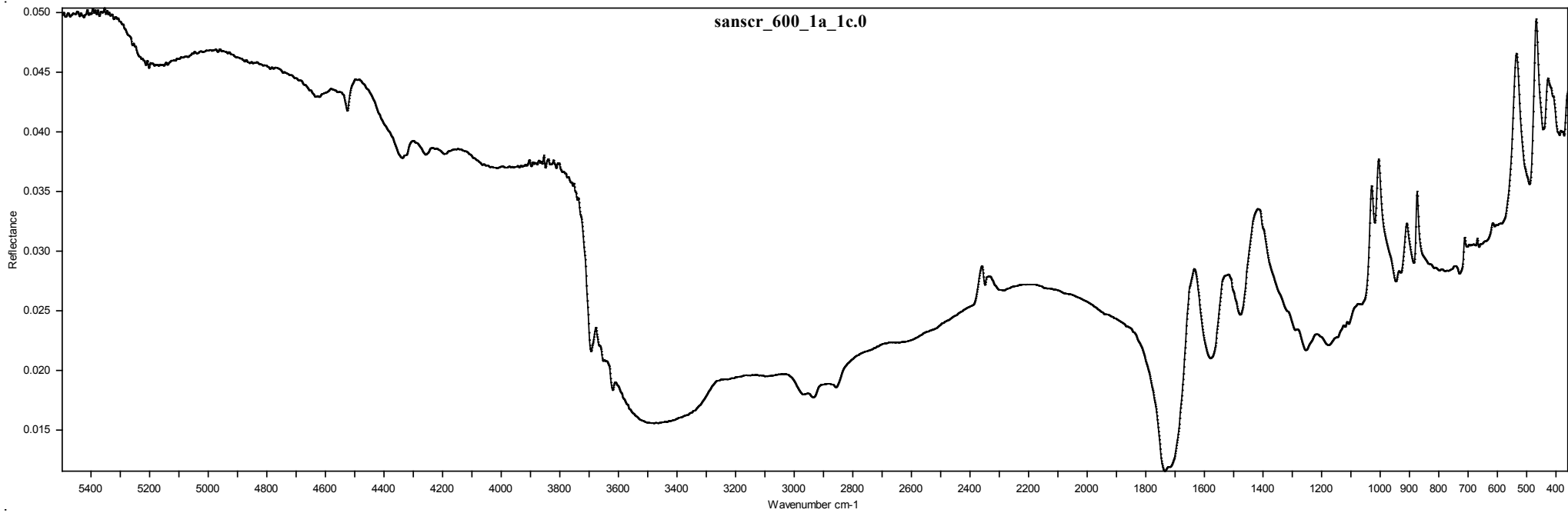


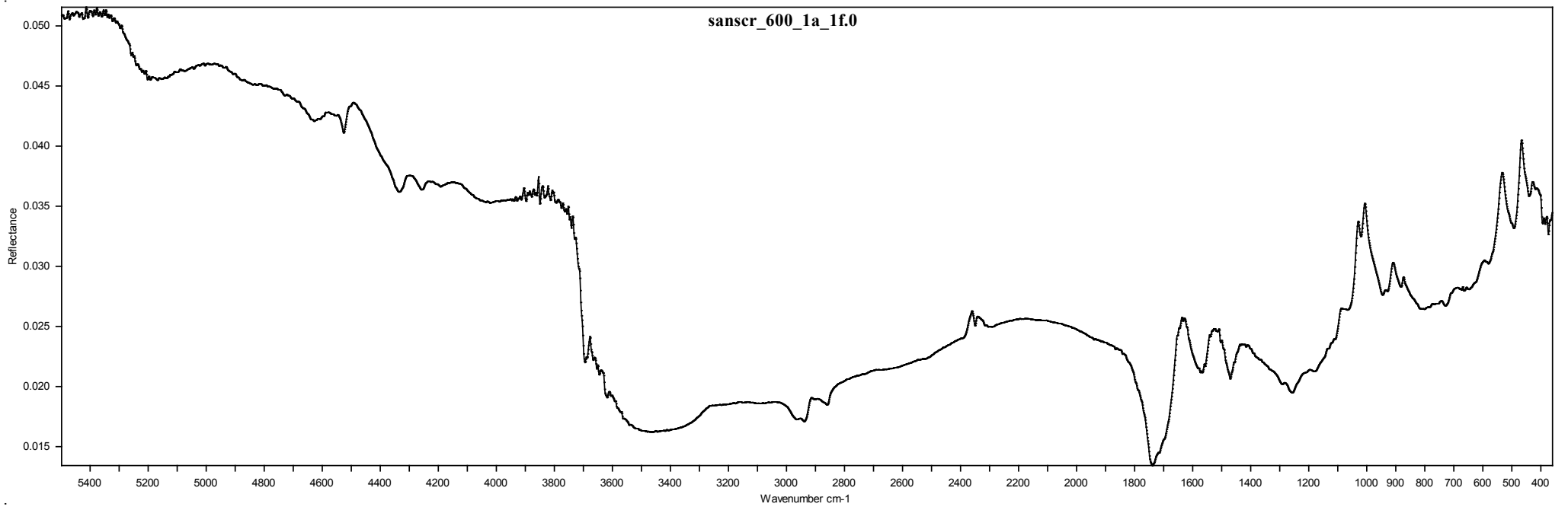
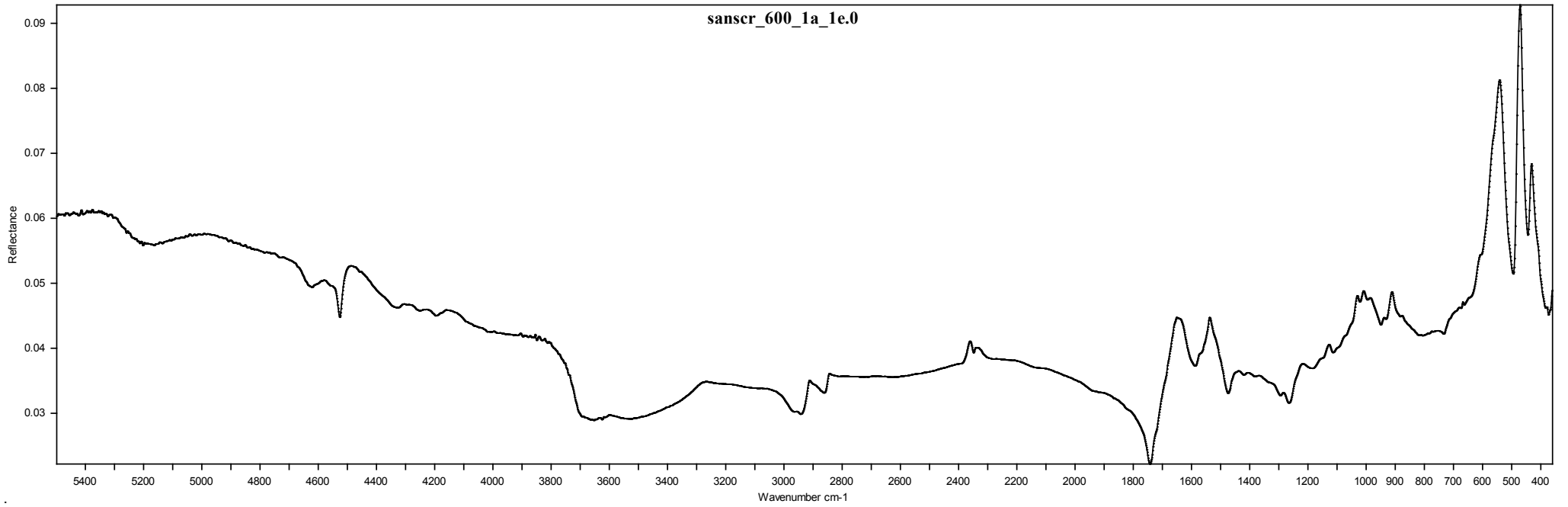
sanscr\_600\_1a\_1a.0

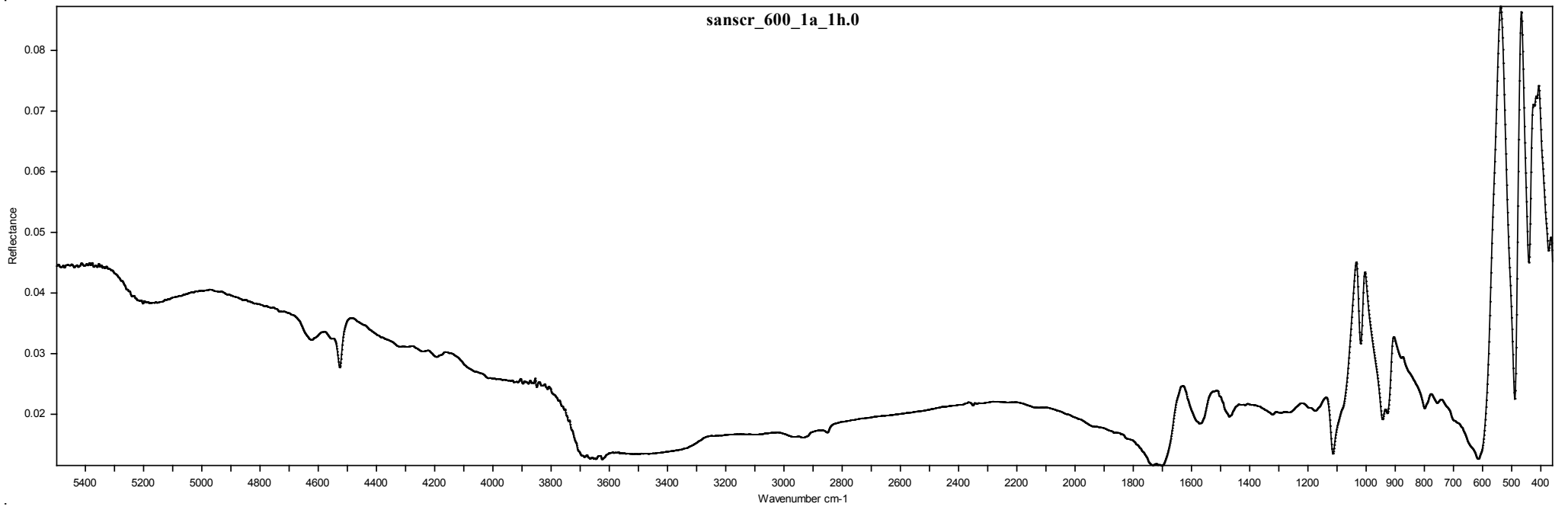
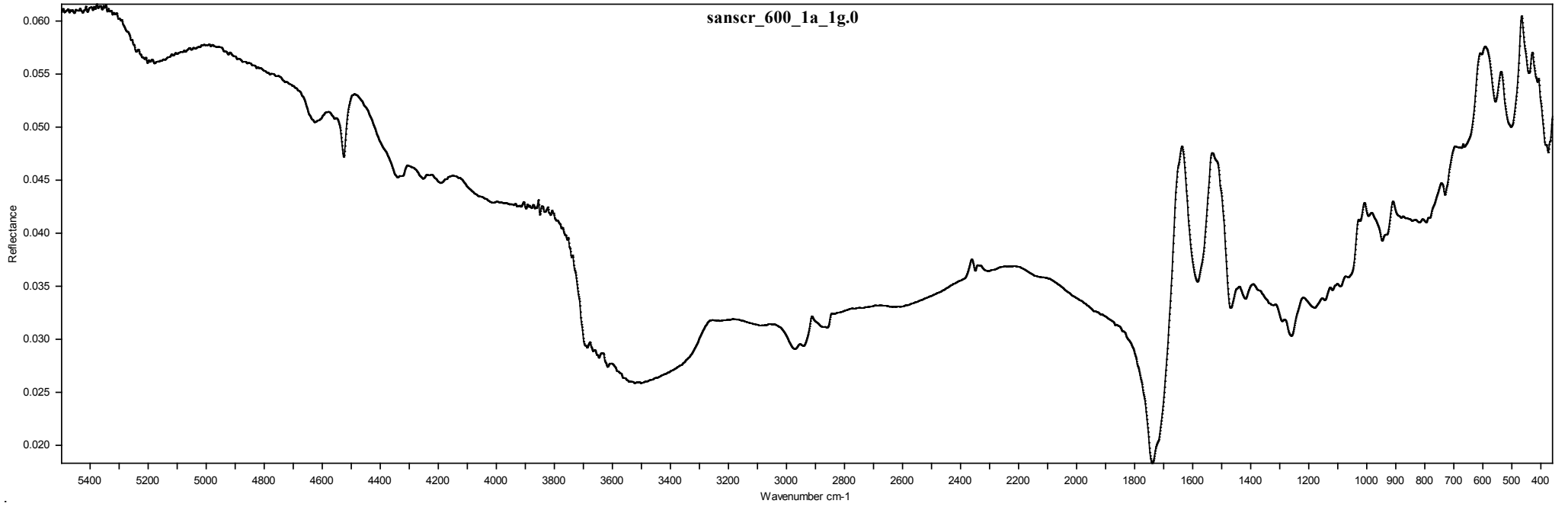


sanscr\_600\_1a\_1b.0









sanscr\_600\_1a\_1i.0

