

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.

Analytical methods: X-Ray Fluorescence Spectroscopy (XRF): p. 2-6
Fourier Transform Infrared Spectroscopy (FTIR): p. 7-16

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

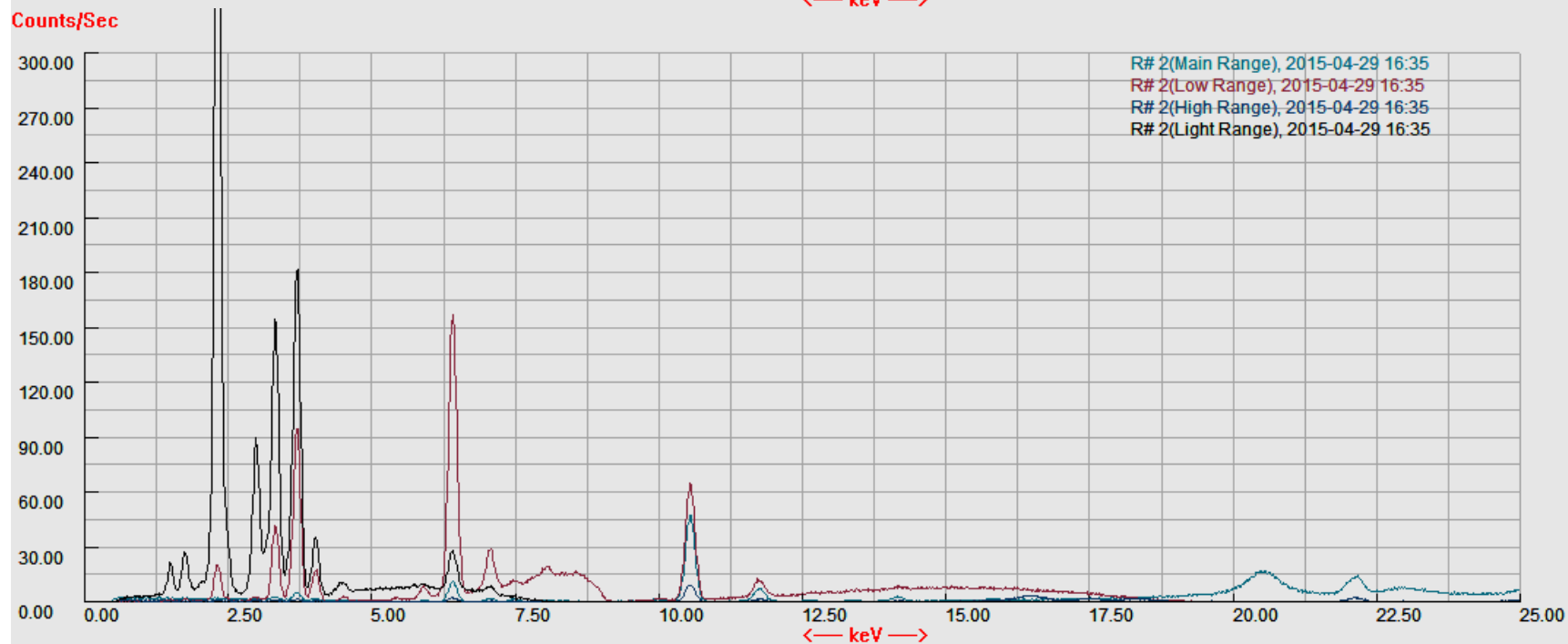
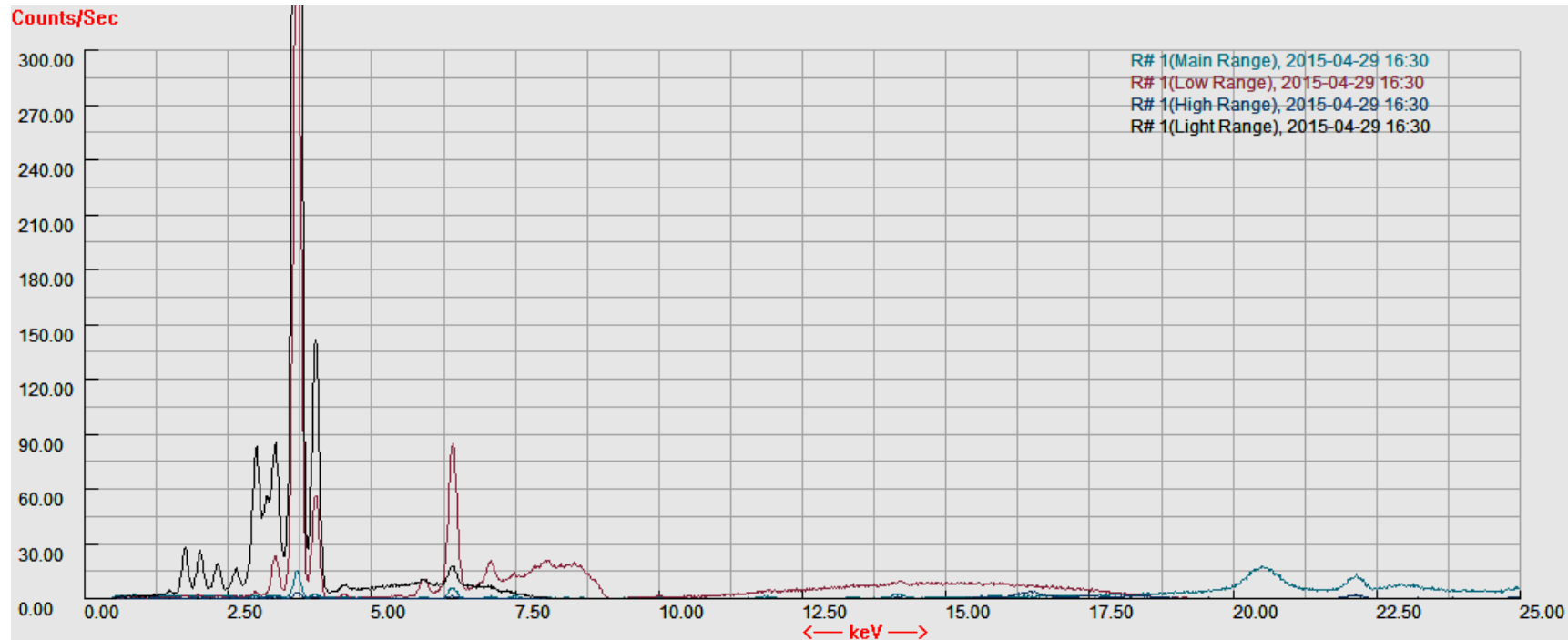
XRF-Analysis: Mapping of measurement points and spectra

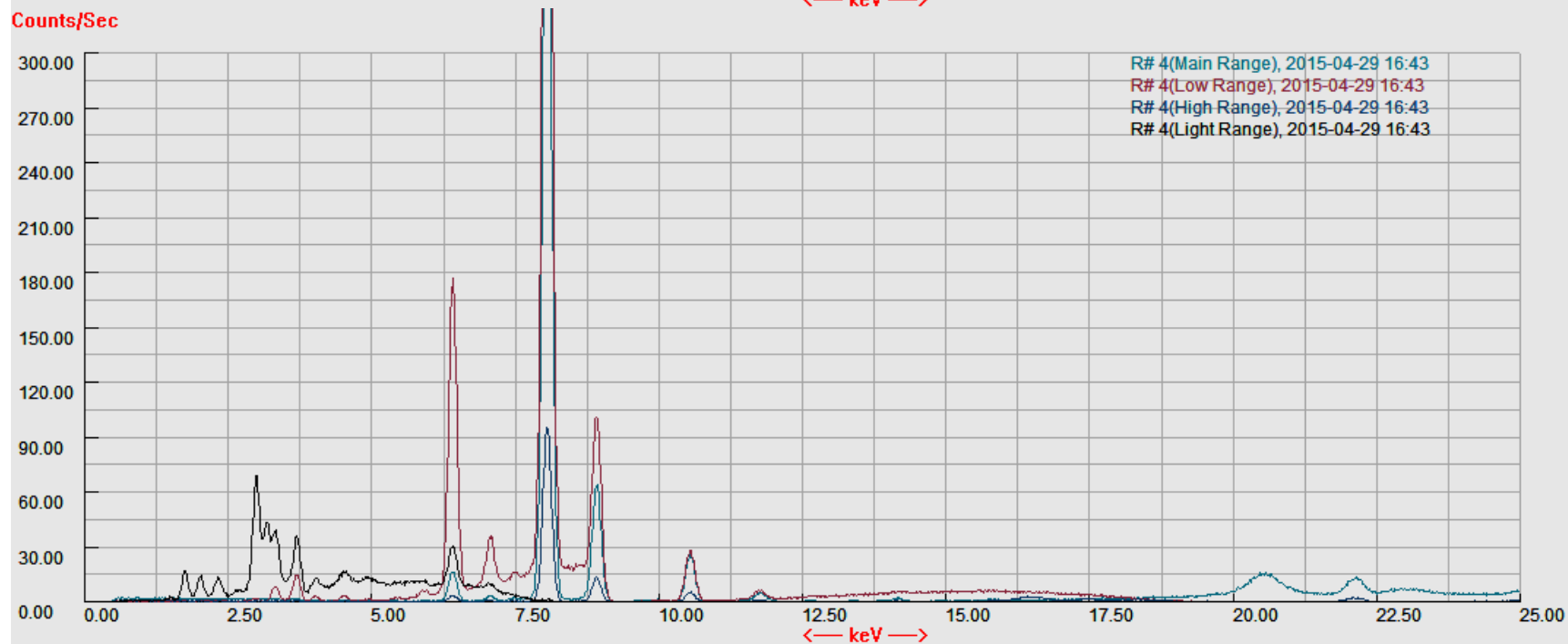
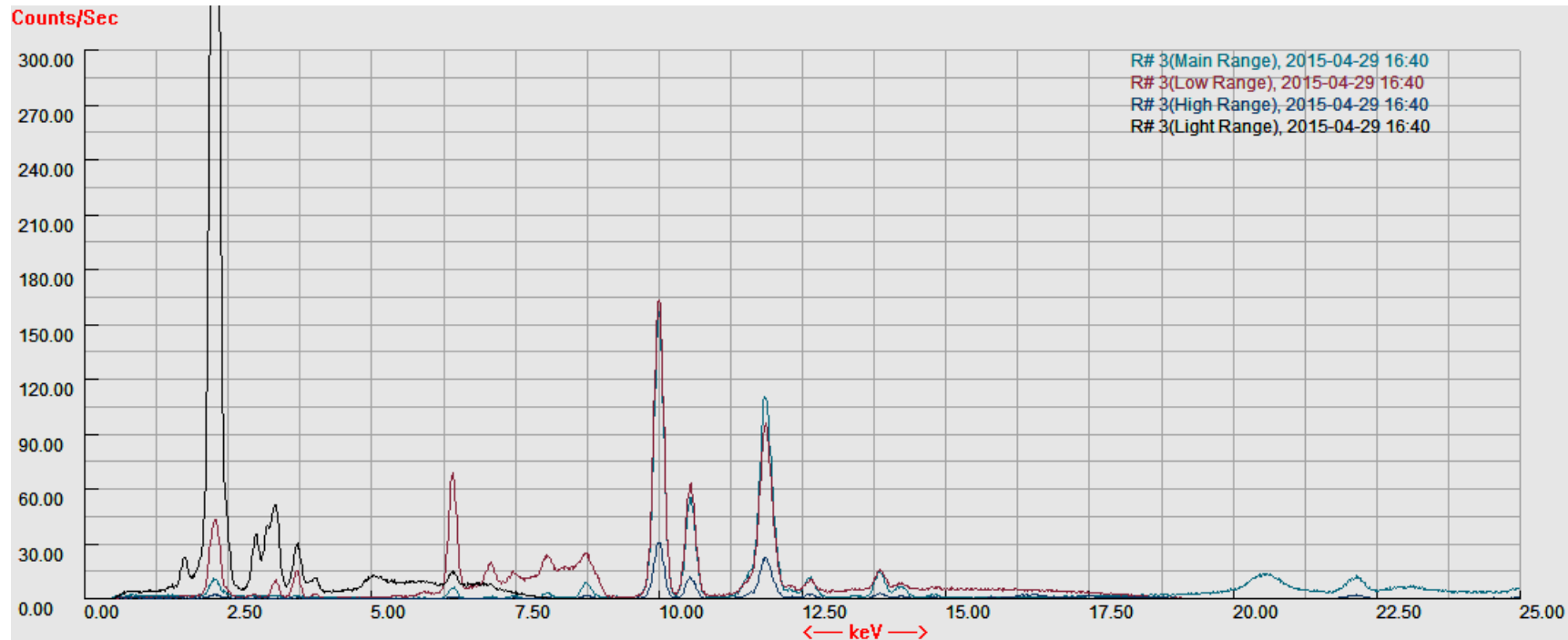
Scanning parameters

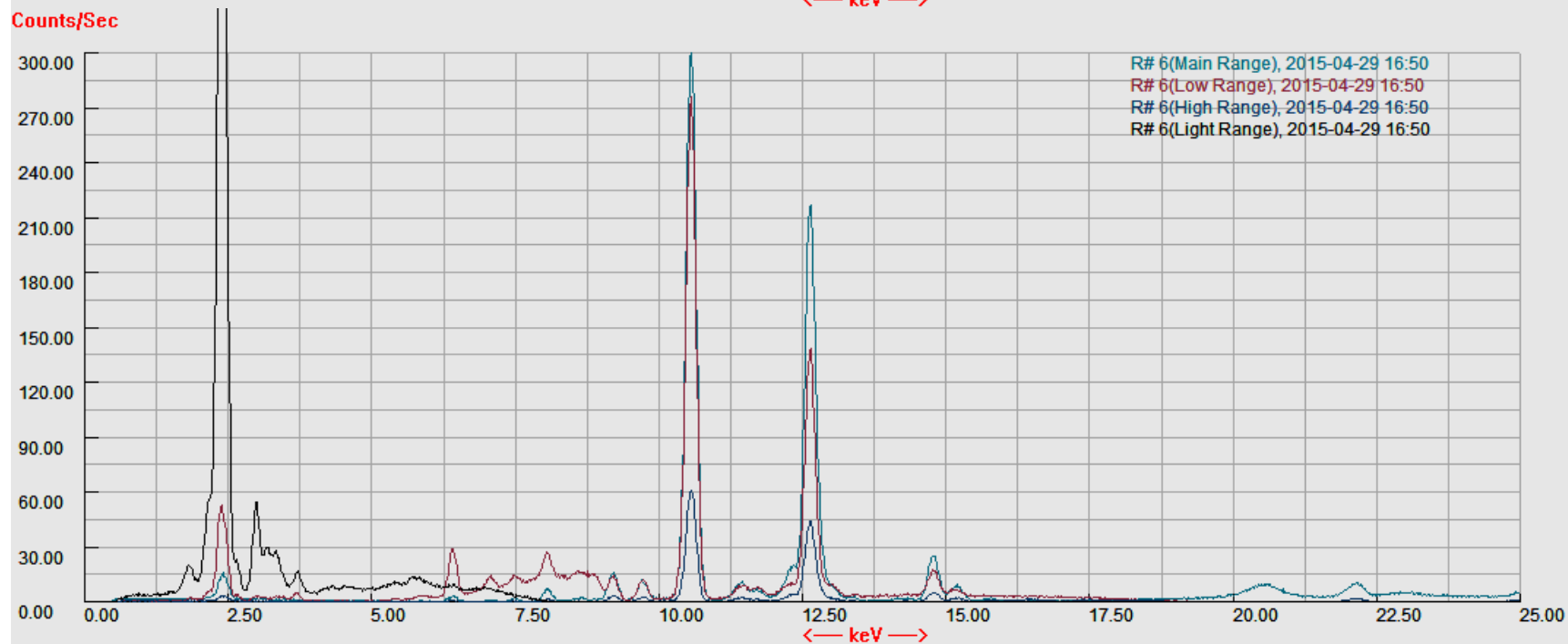
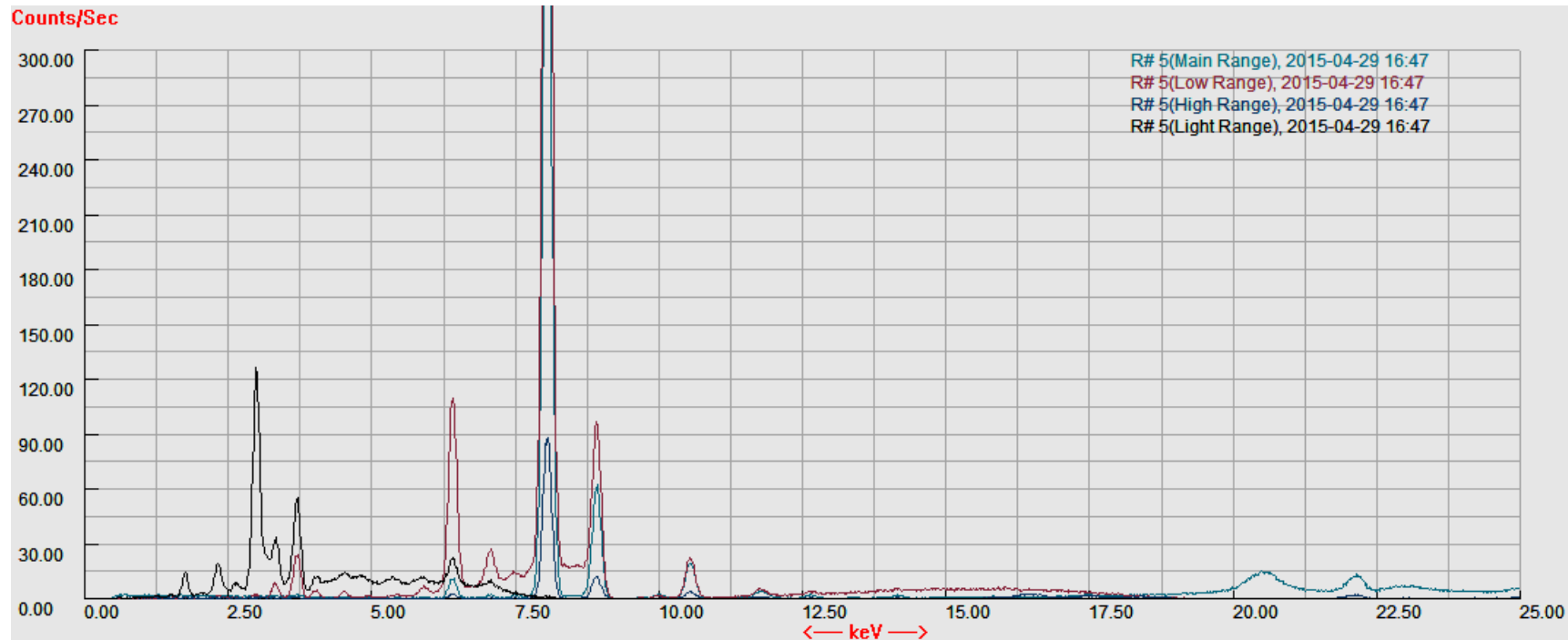
Instrument: NITON XL3t GOLD D+
Scanning mode: Mining (Cu, Zn)
Spectral resolution: 4 cm^{-1}
Scan duration: 150 s

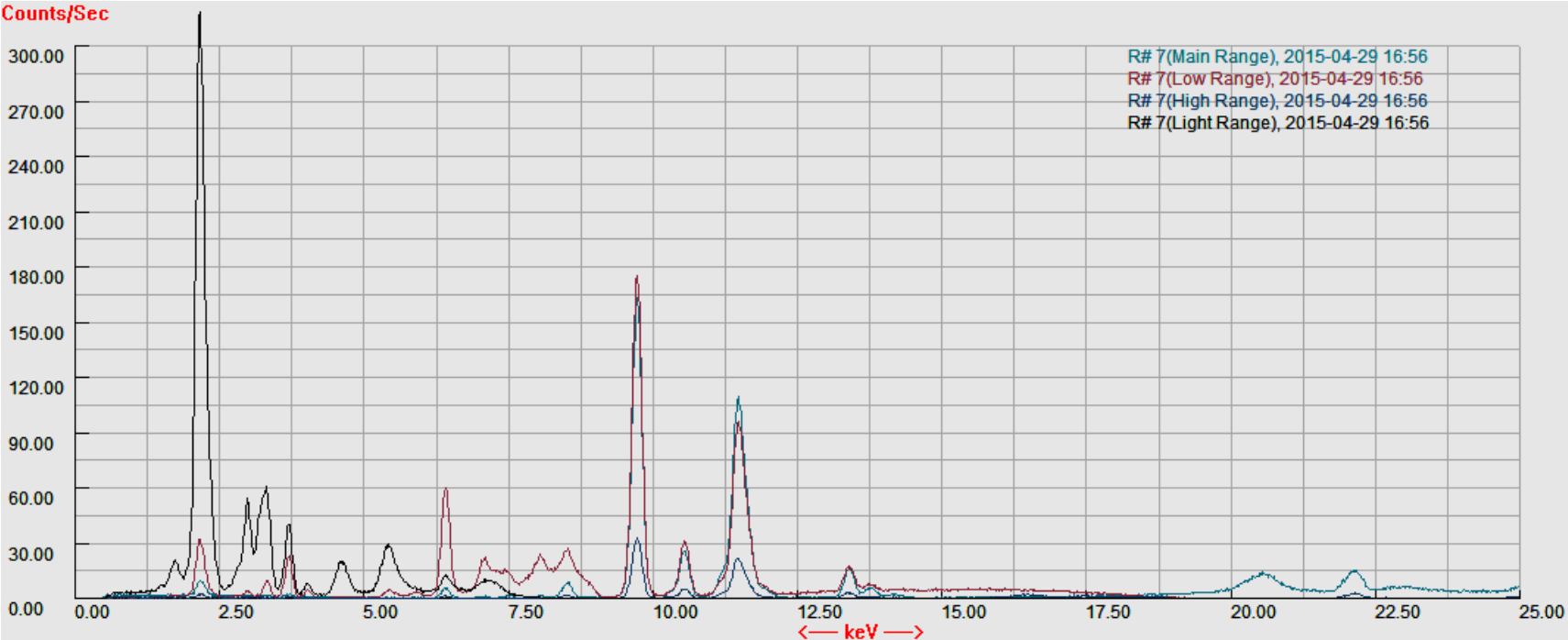
Spectra: #1 ... #7











FTIR-Analysis: Mapping of measurement points and spectra

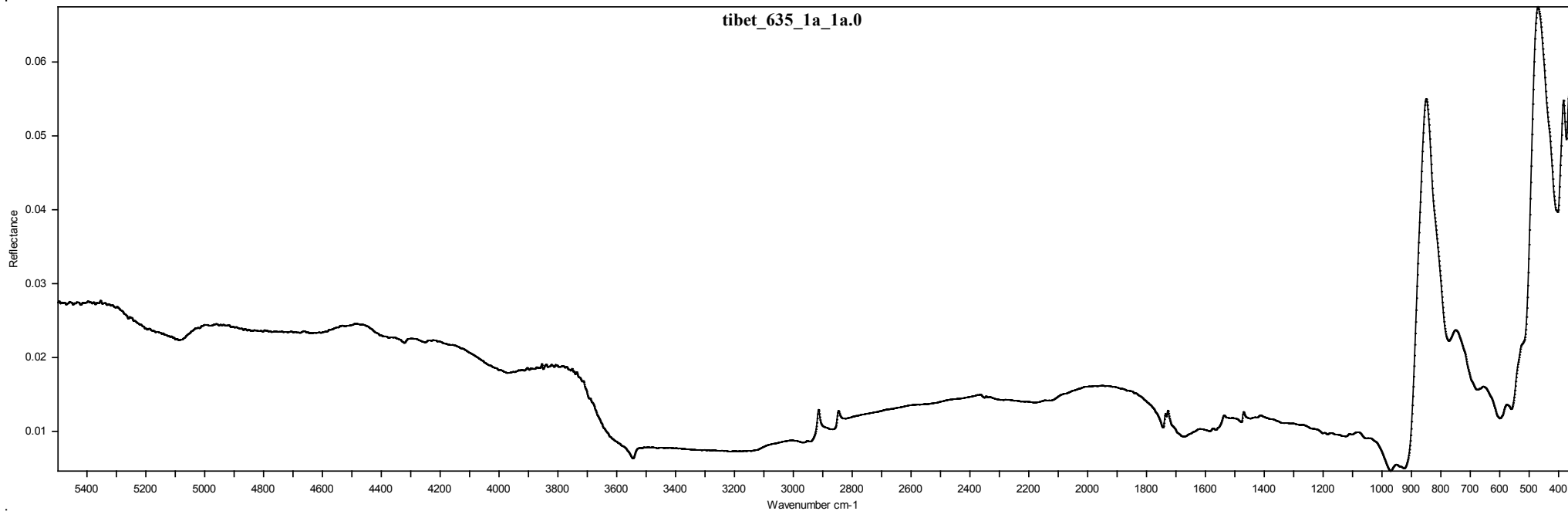
Scanning parameters

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

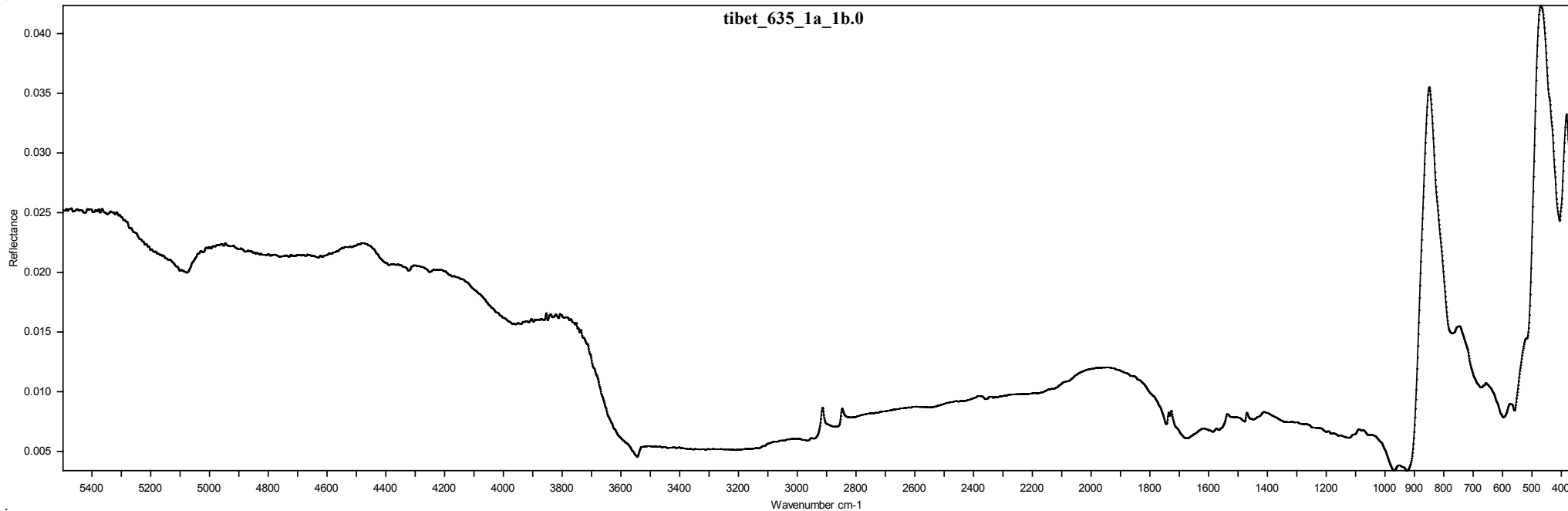
Spectra: tibet_635_1a_1a ... _1r
(filename description: signature_side a/b_number of scan)

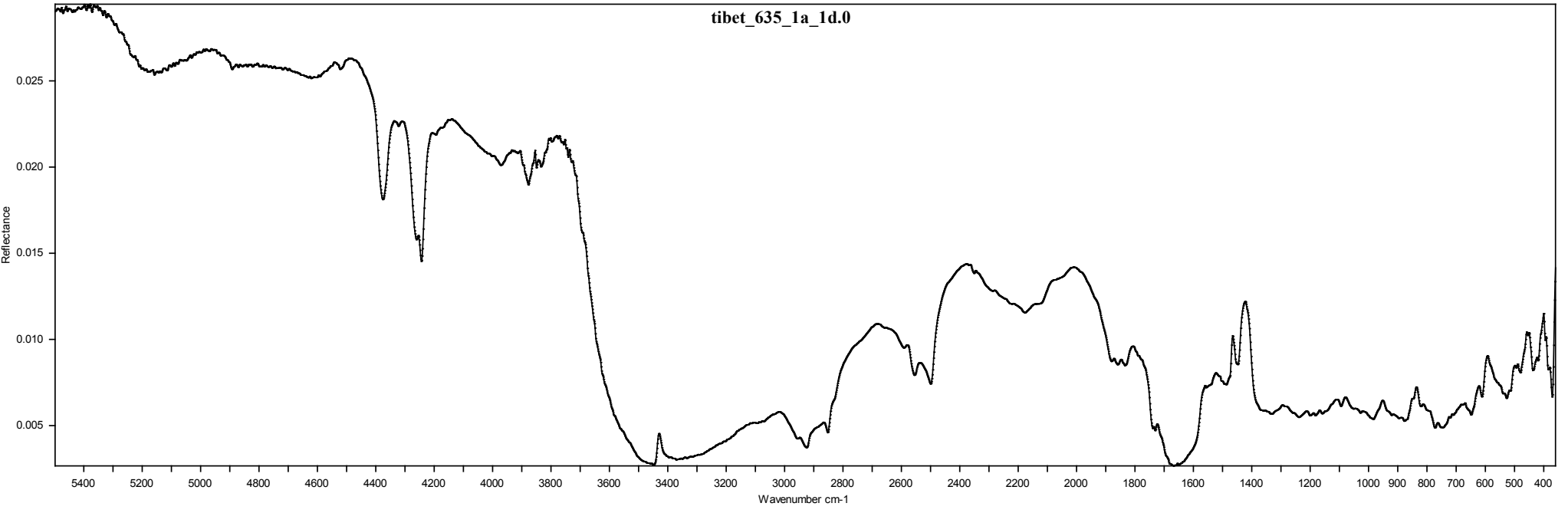
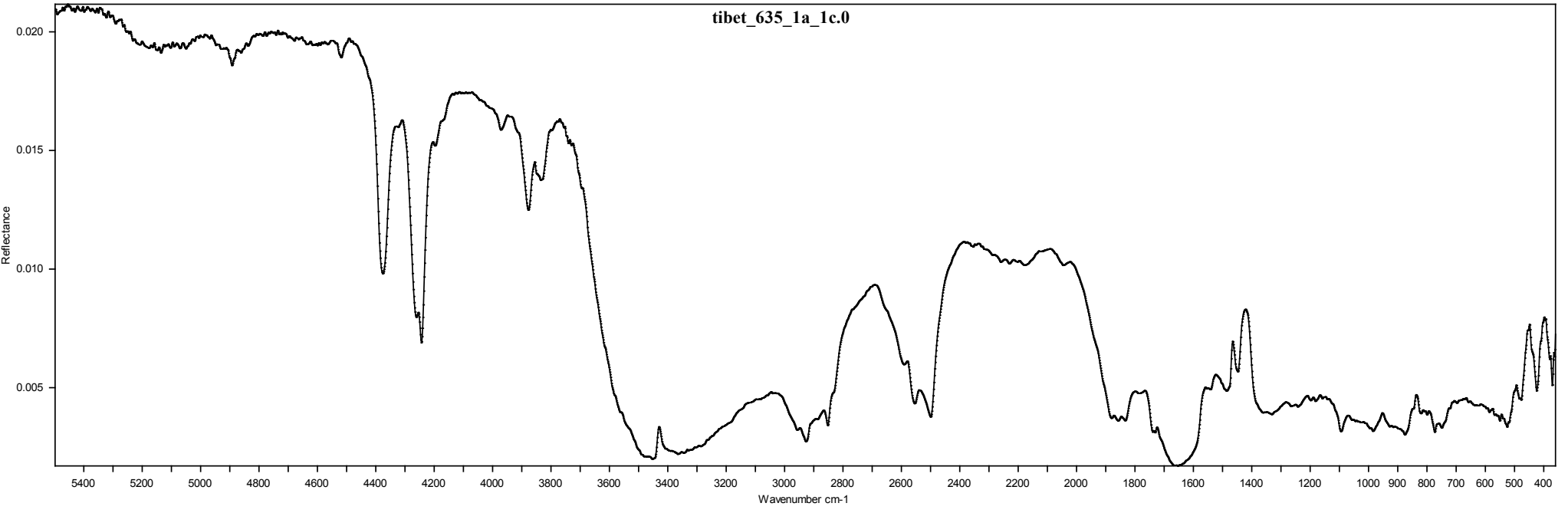


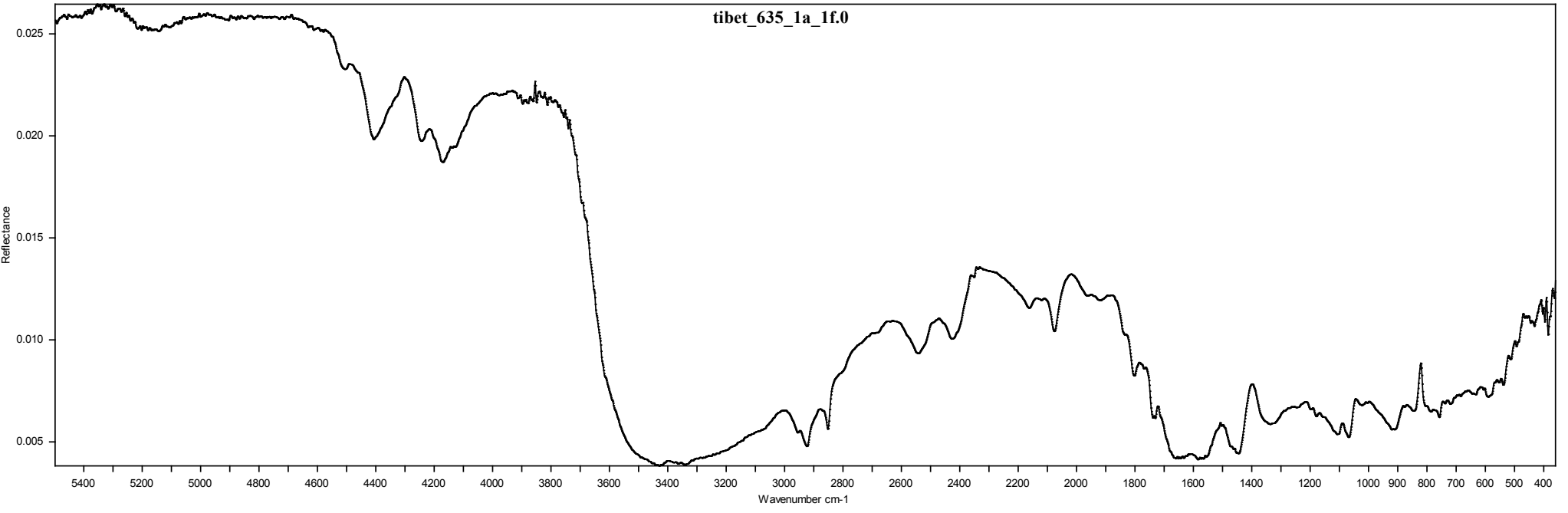
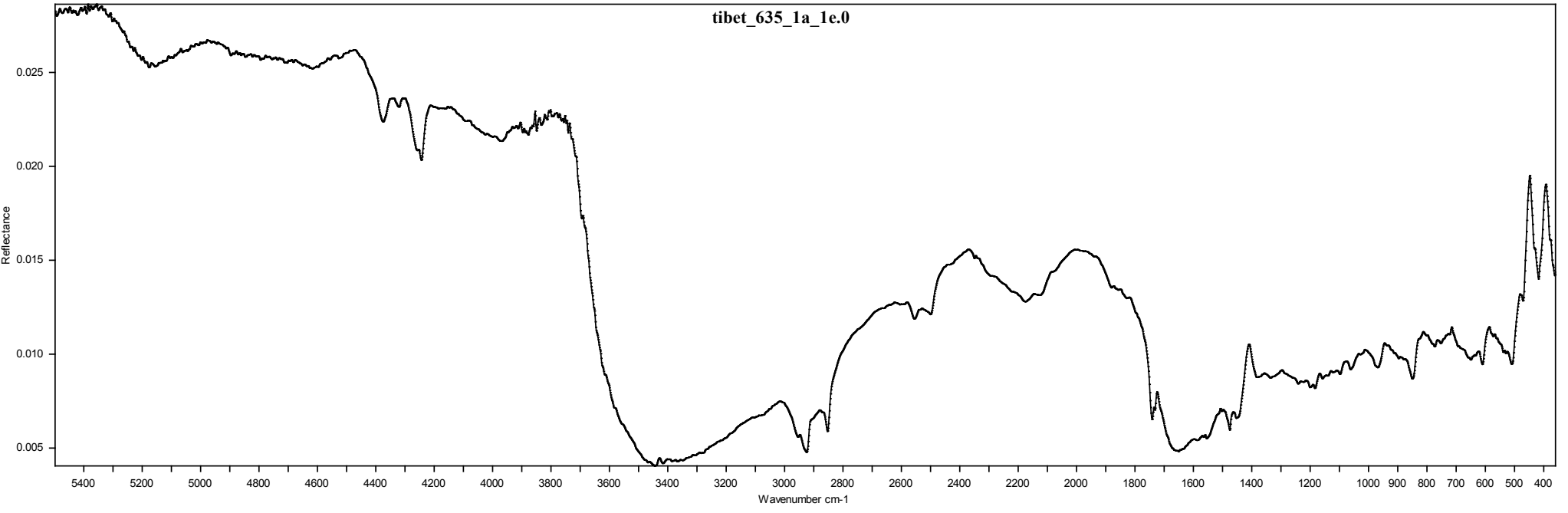
tibet_635_1a_1a.0



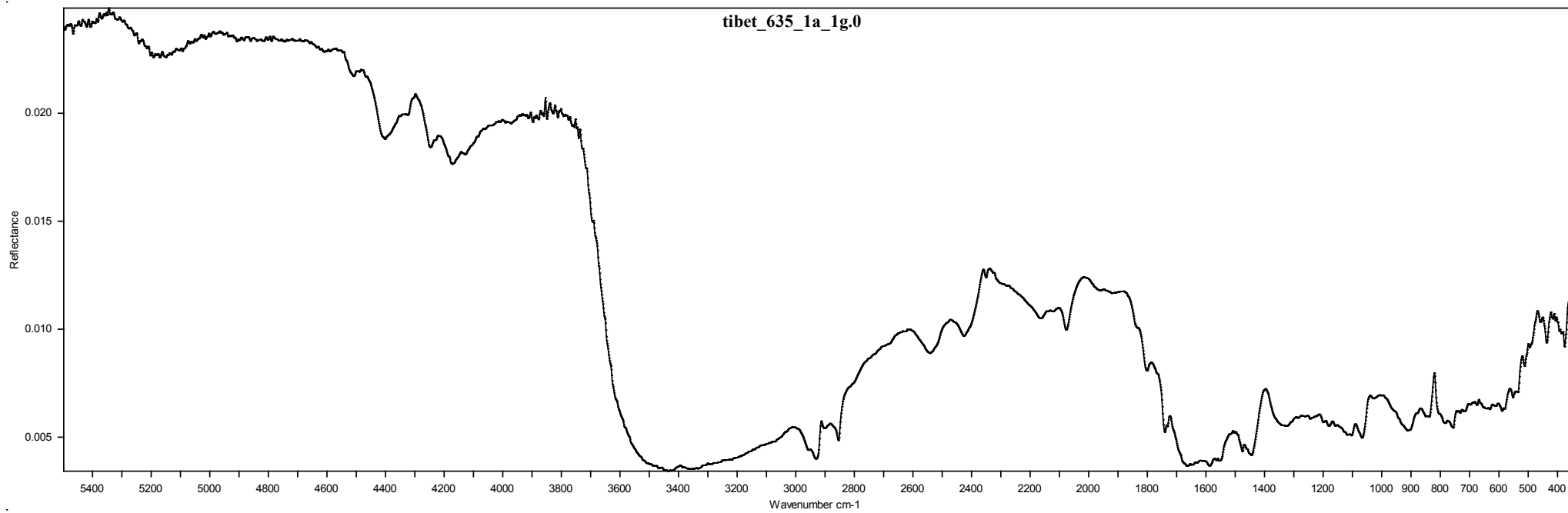
tibet_635_1a_1b.0







tibet_635_1a_1g.0



tibet_635_1a_1h.0

