

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. 2-9
Fourier-Transform Infrared-Spectroscopy (FTIR): P. 10-22

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

XRF-Analysis: Mapping of measurement points and spectra

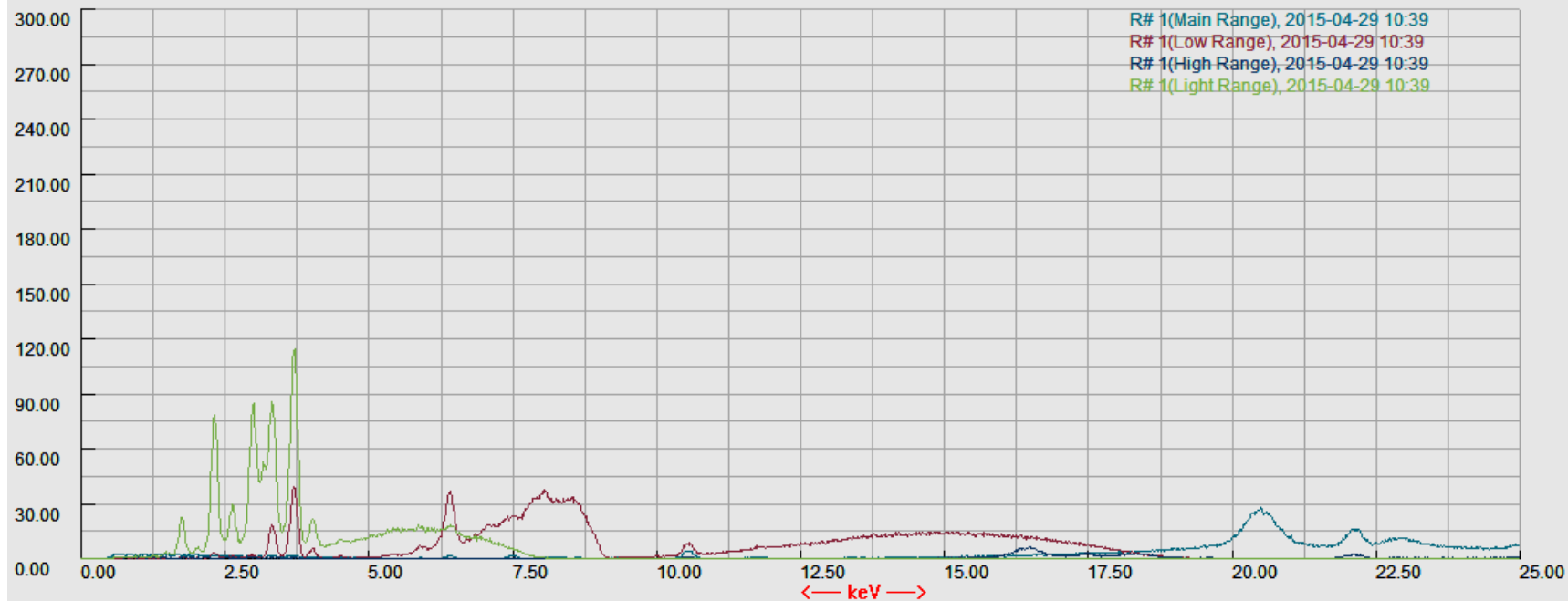
Scanning parameters

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

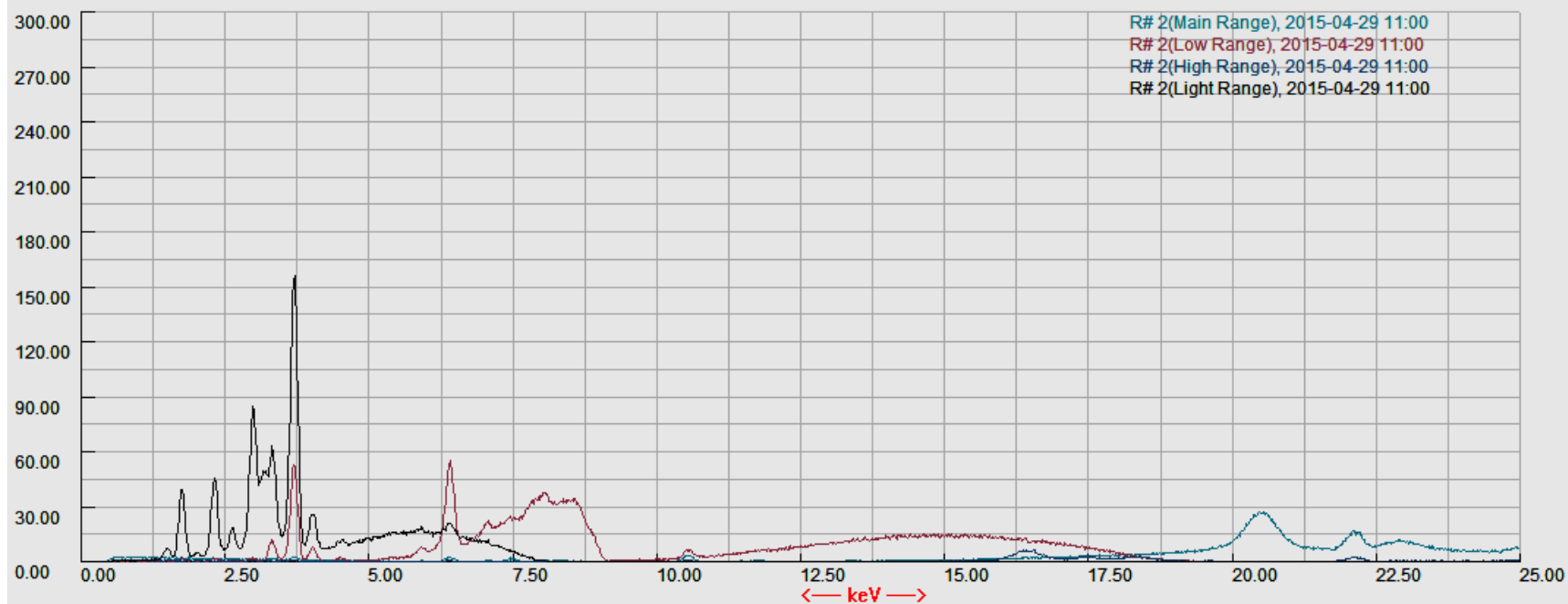
Spectra: #1 ... #14



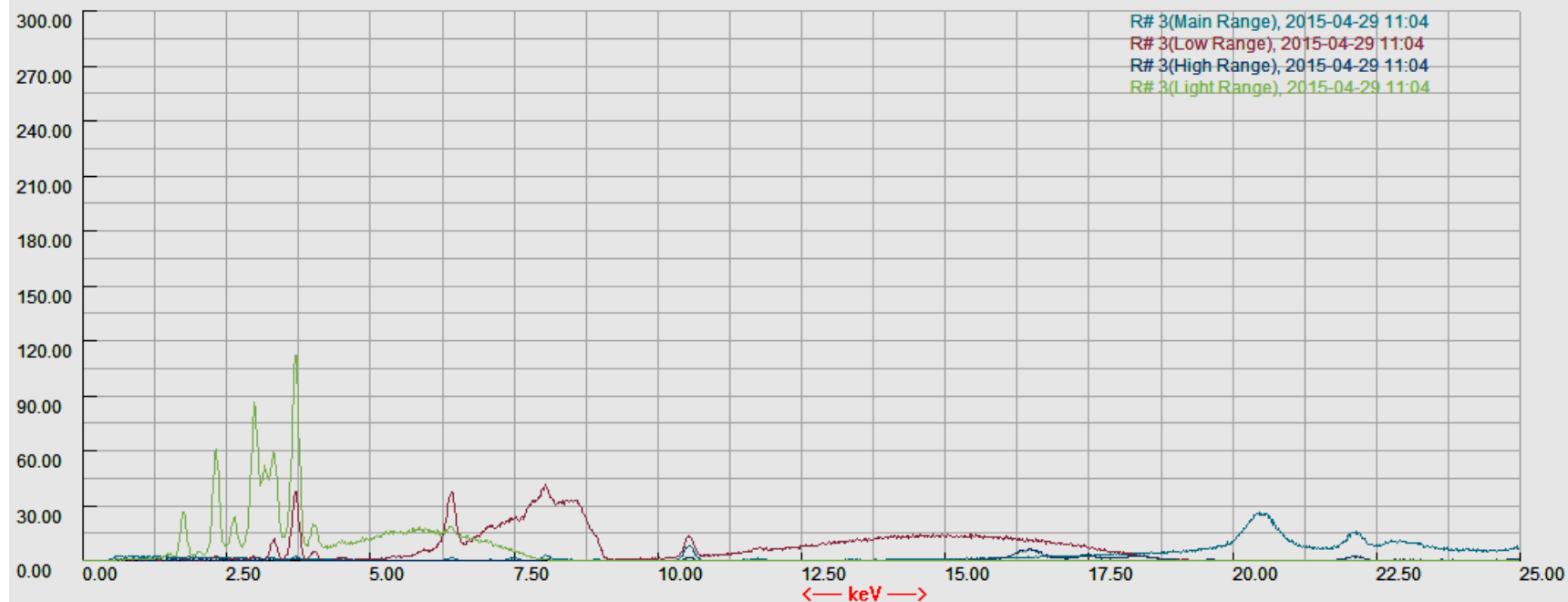
Counts/Sec



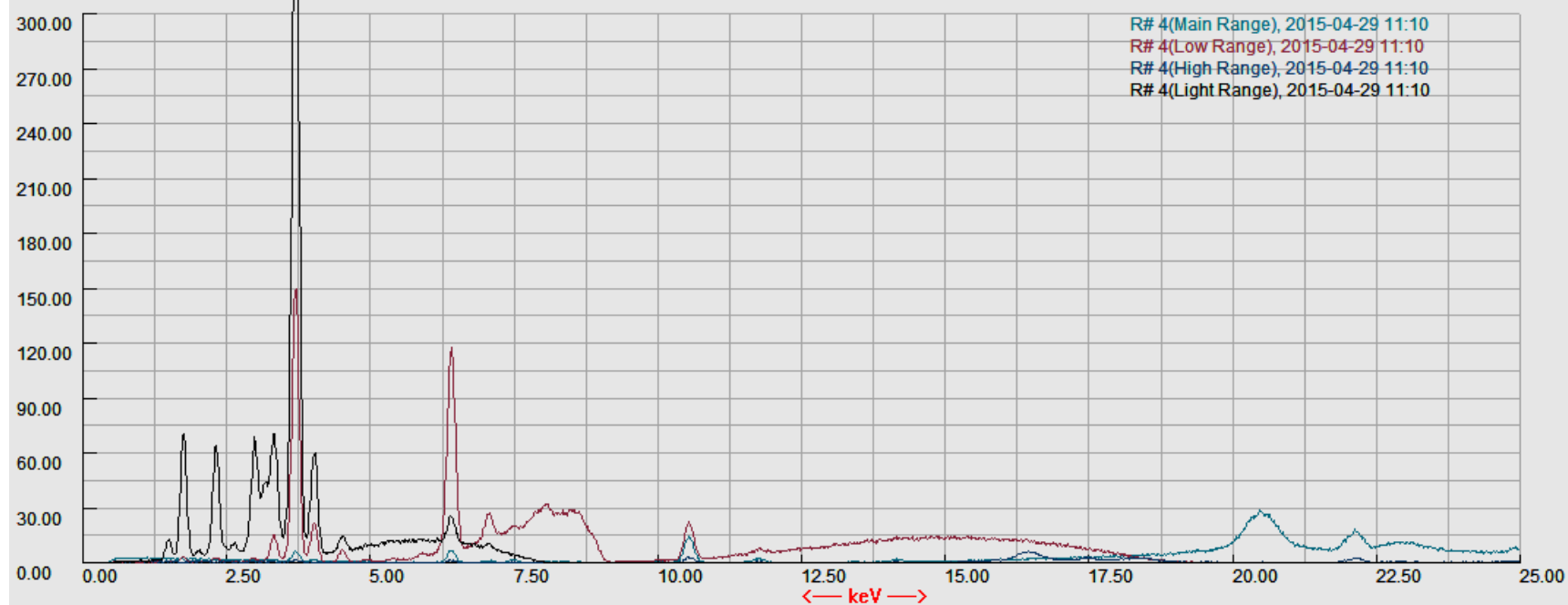
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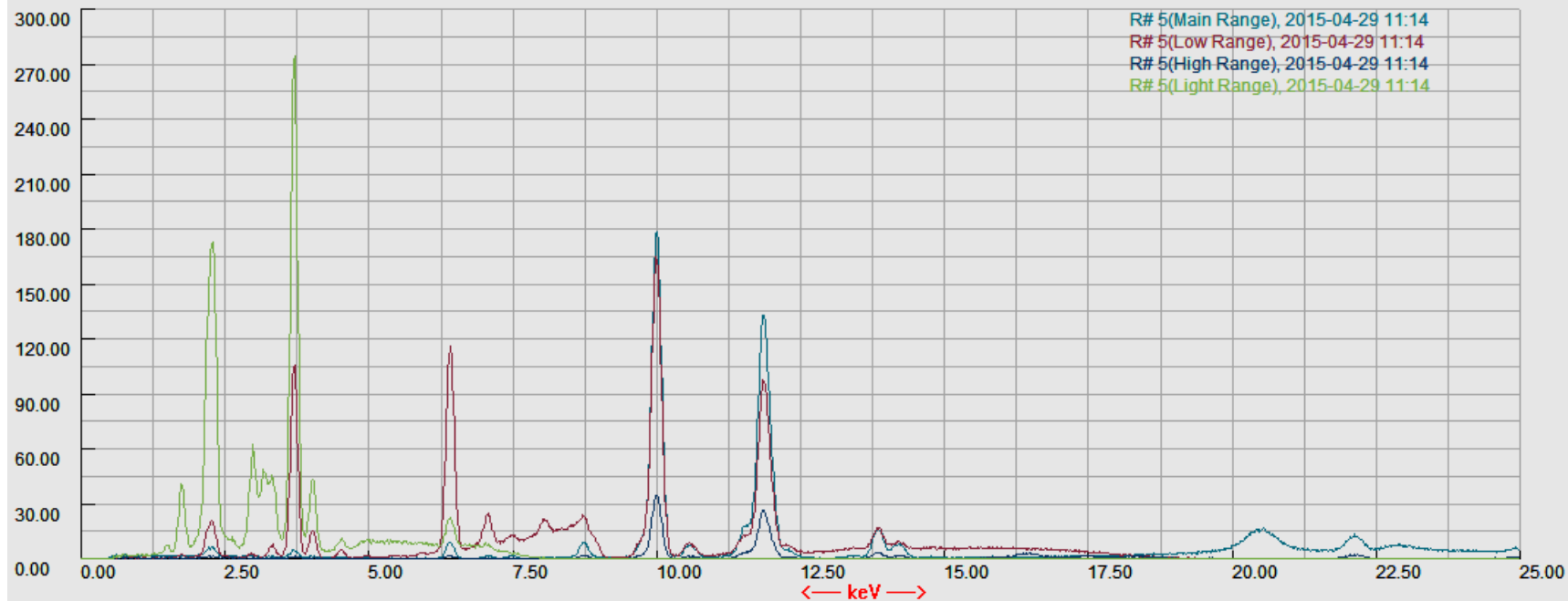
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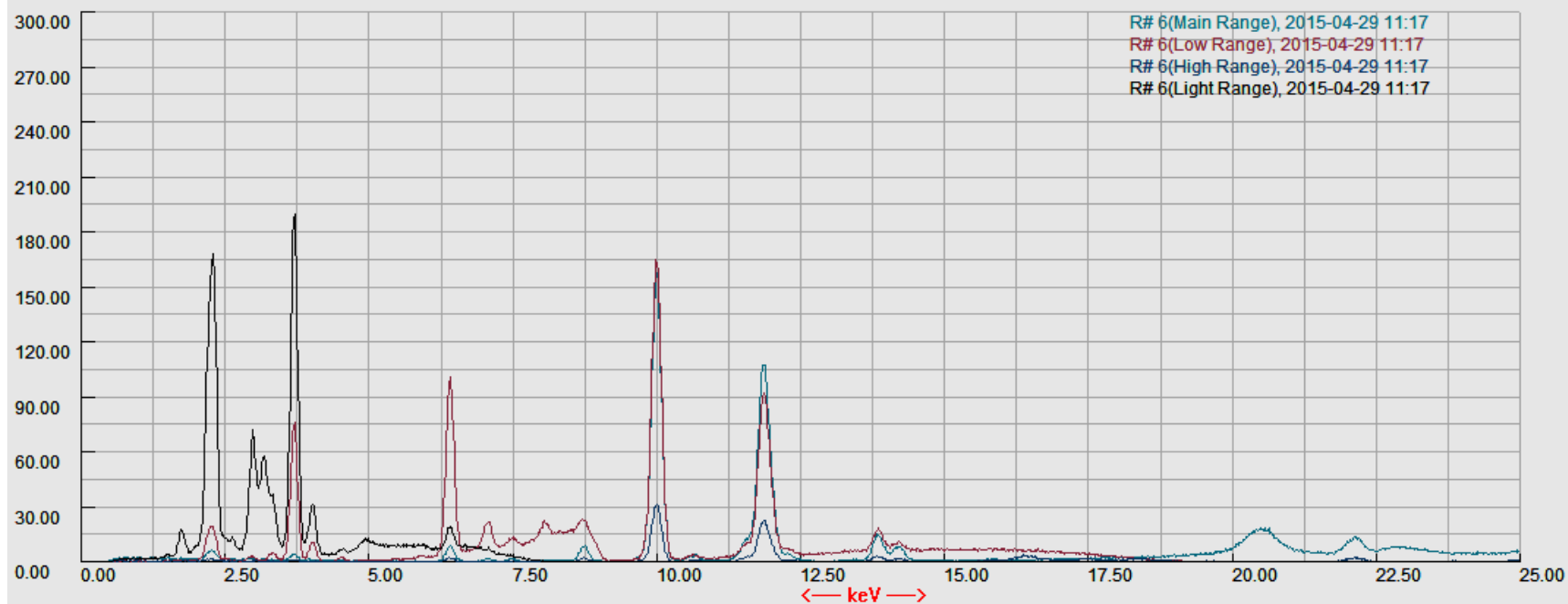
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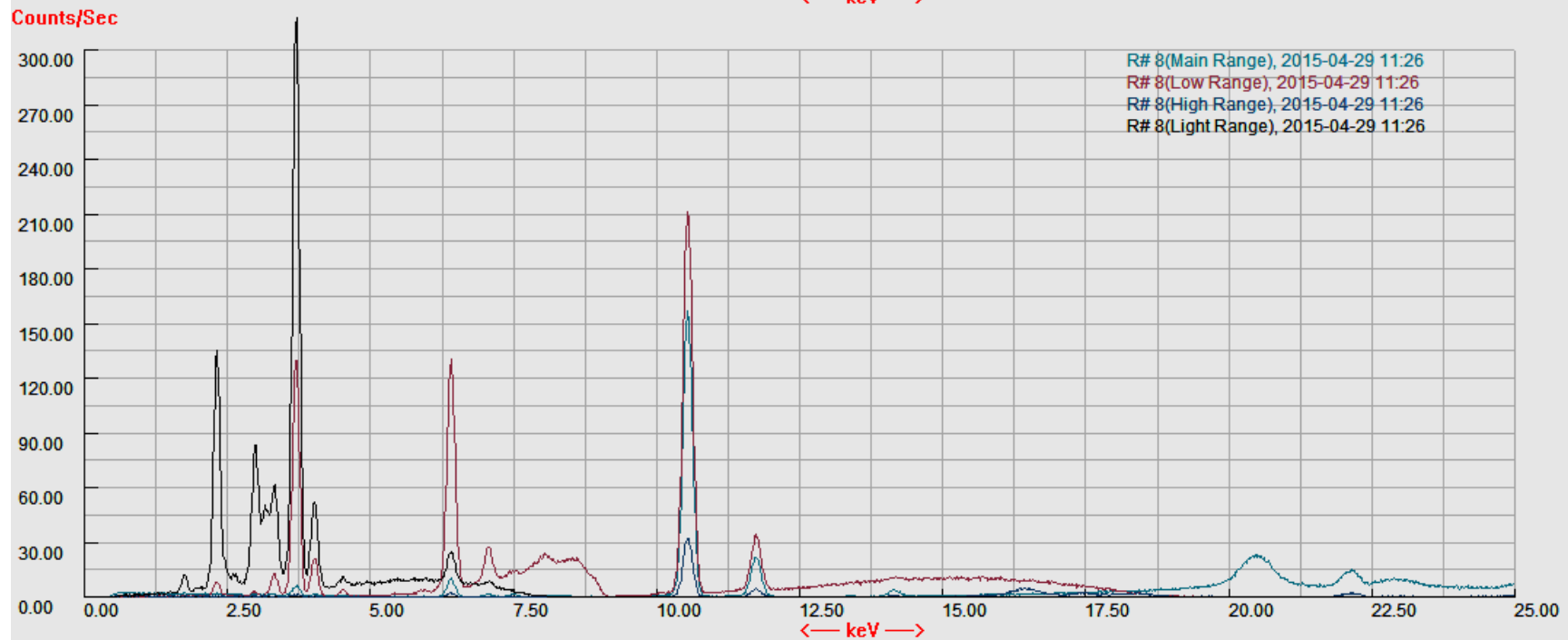
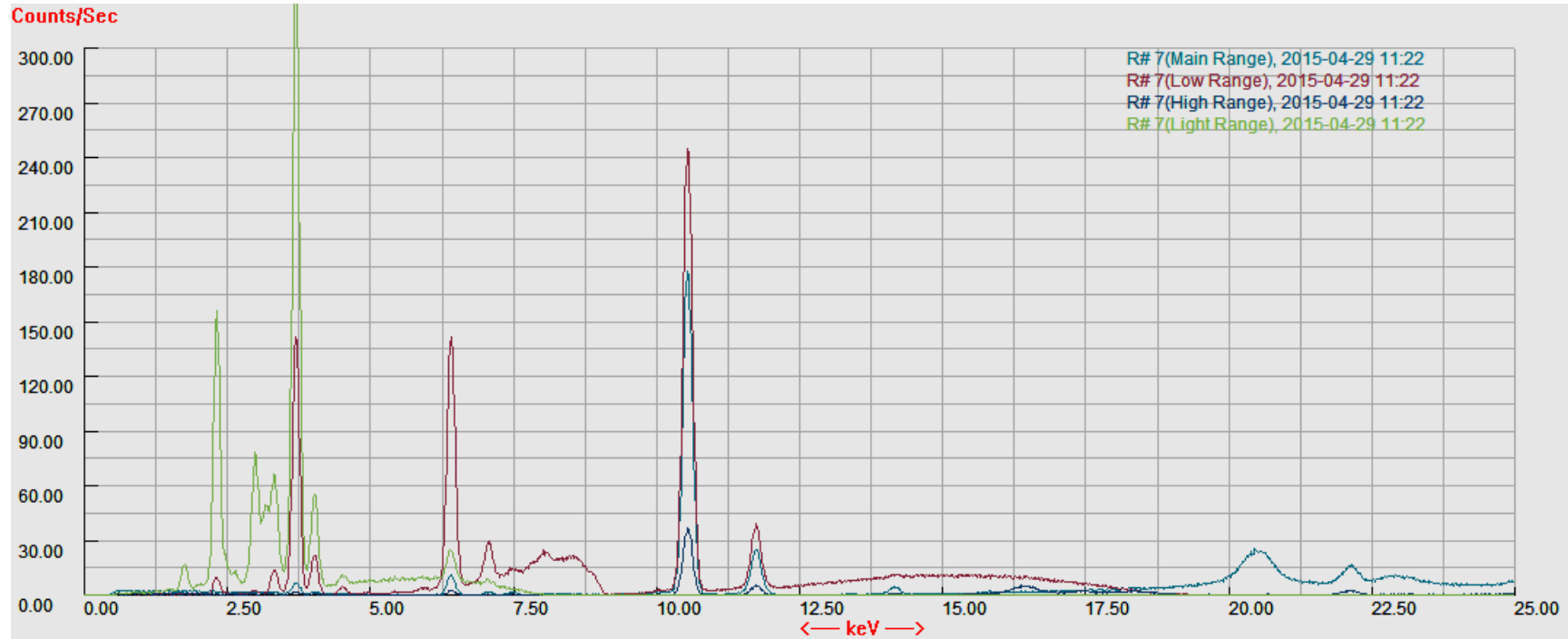


Counts/Sec

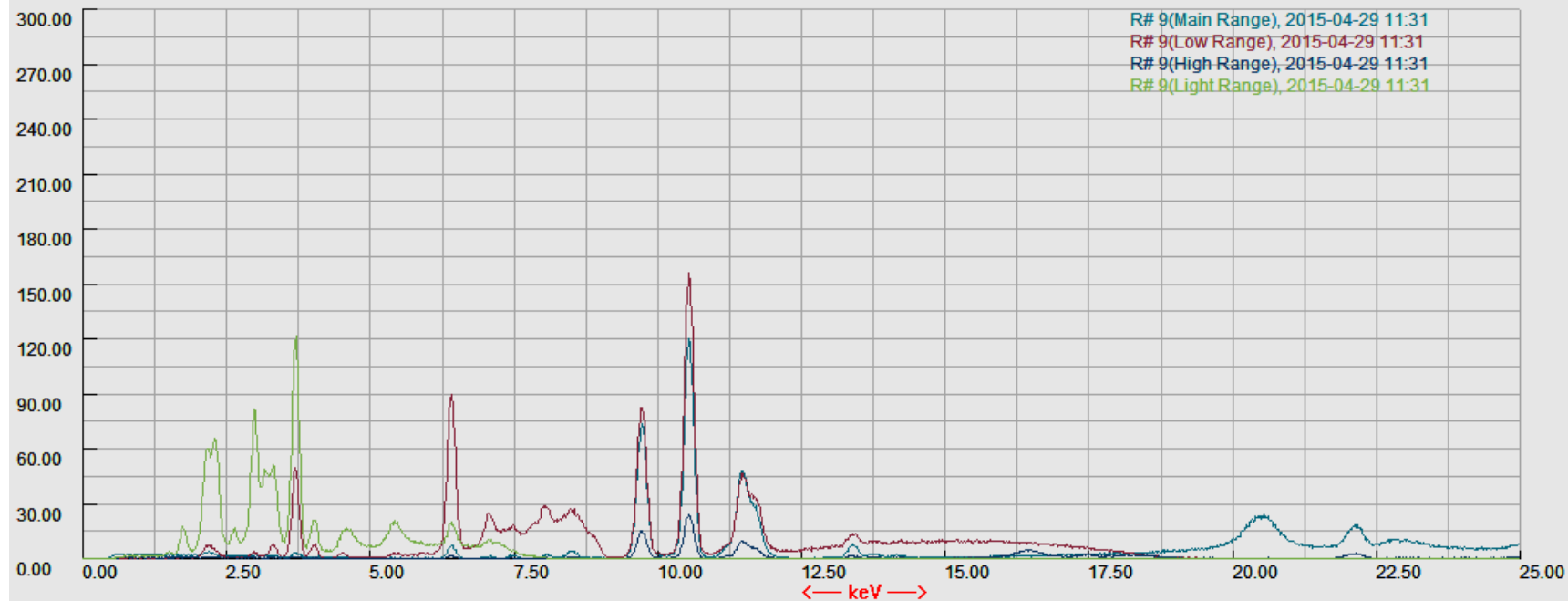


Counts/Sec

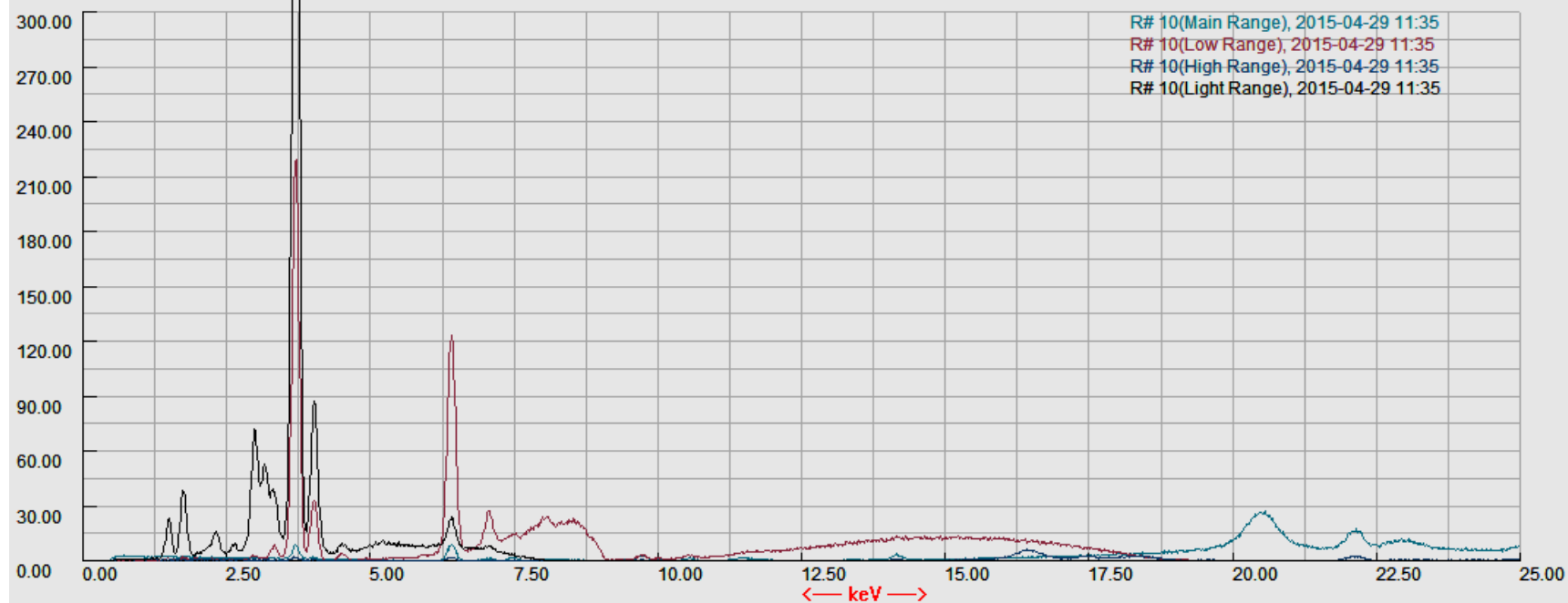


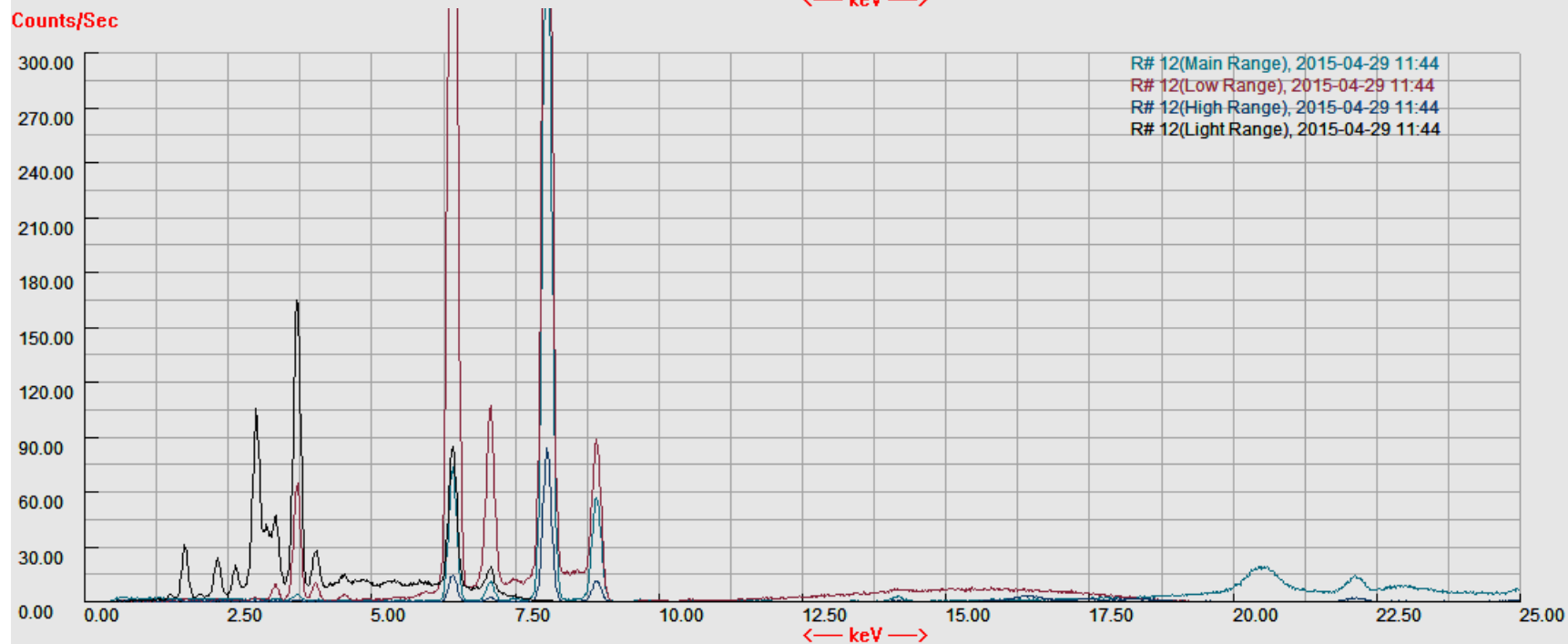
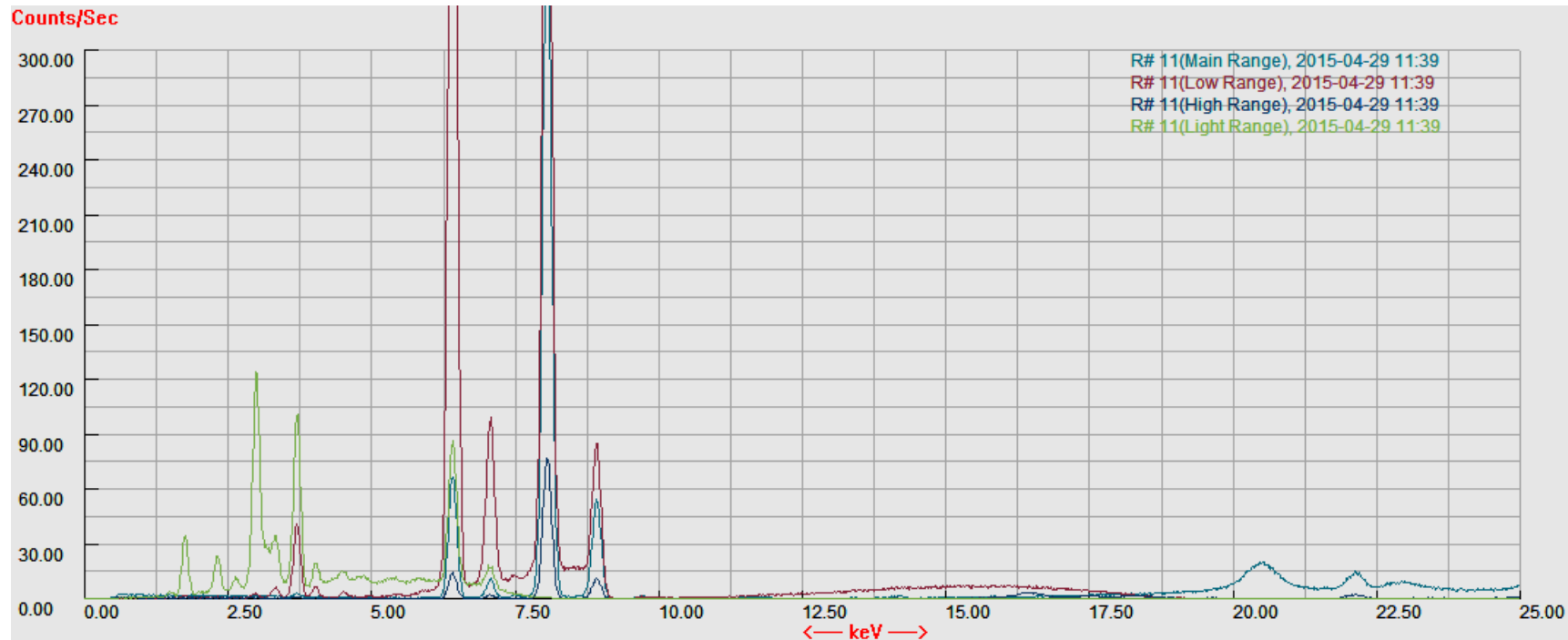


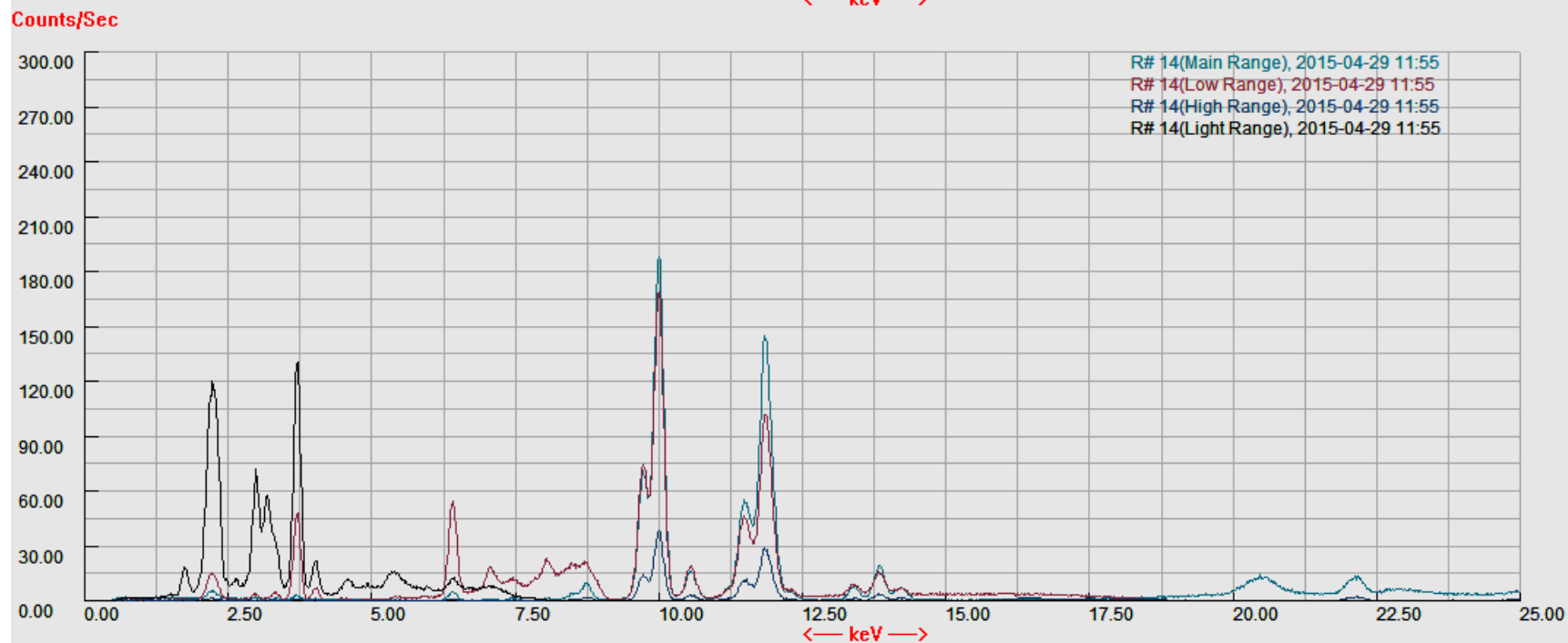
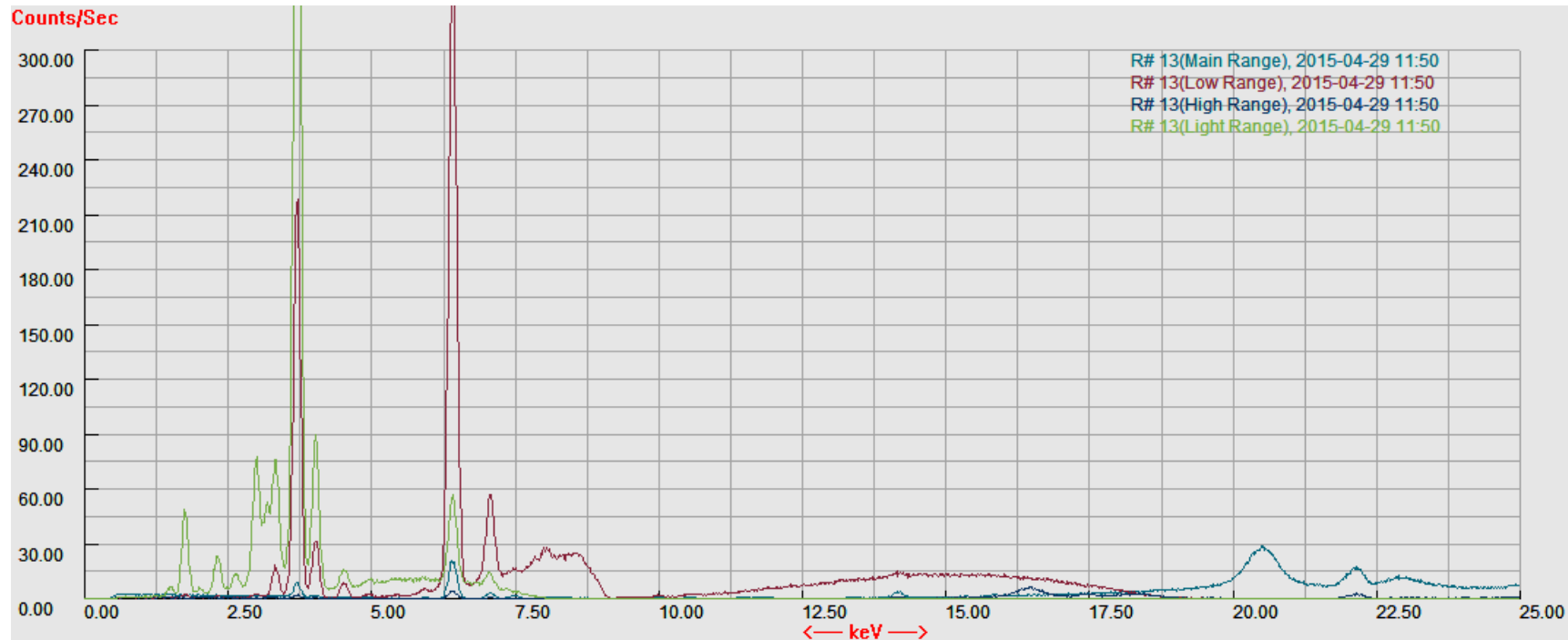
Counts/Sec



Counts/Sec







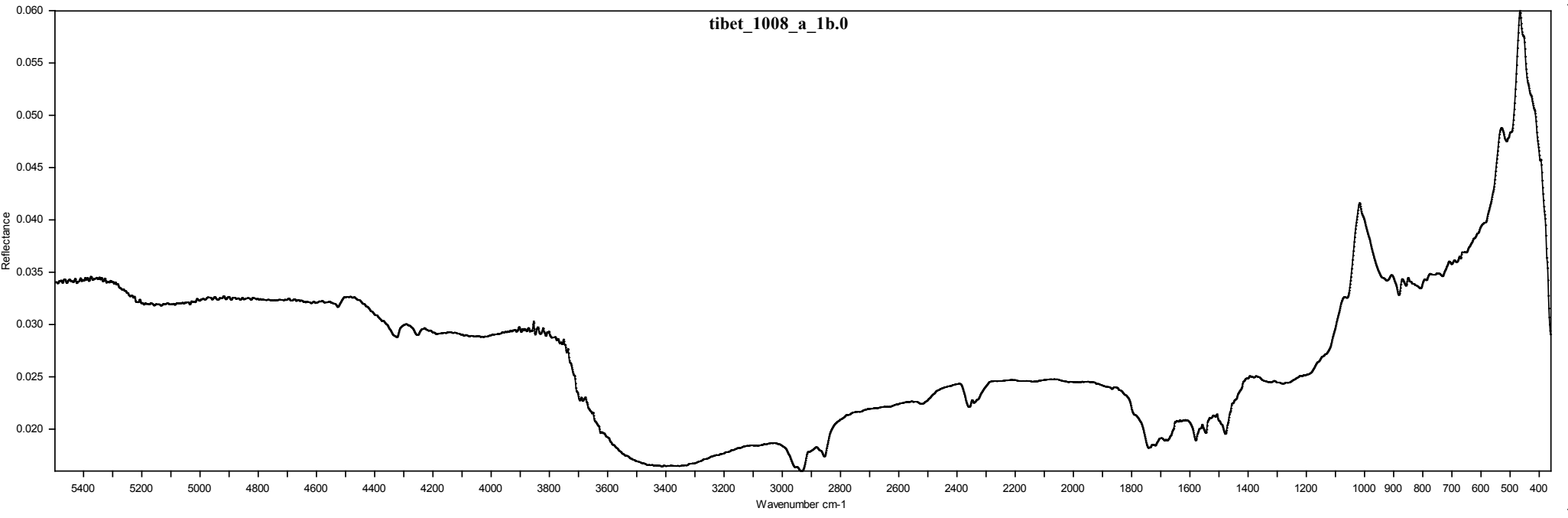
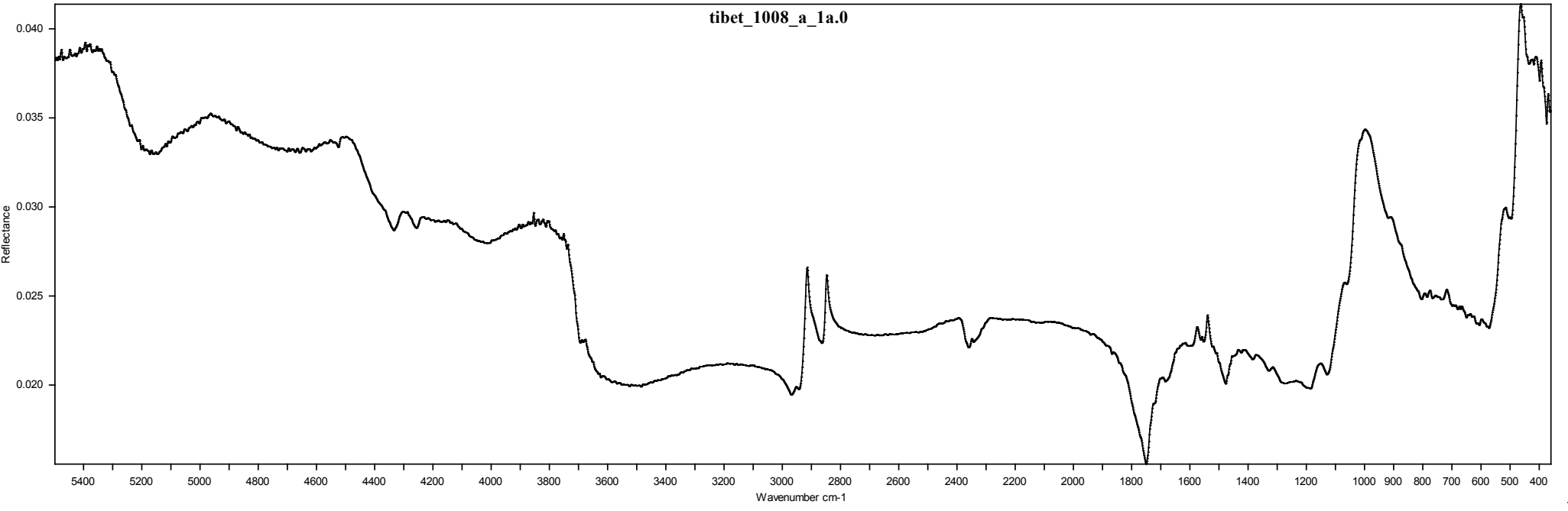
FTIR-Analysis: Mapping of measurement points and spectra

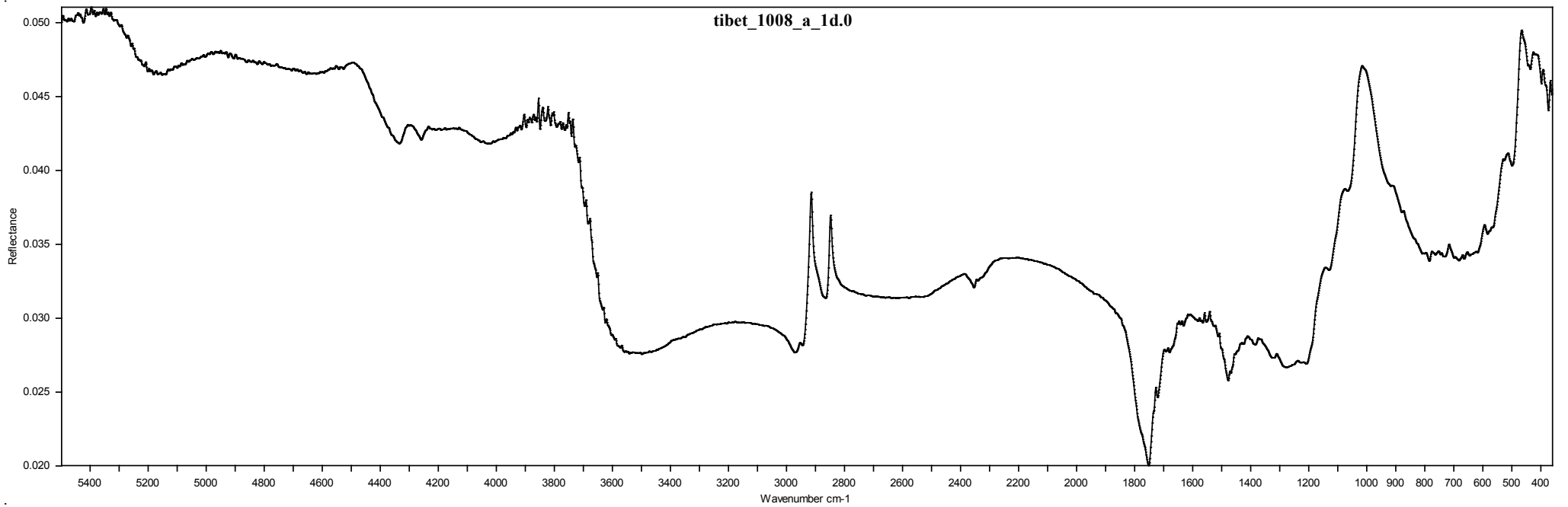
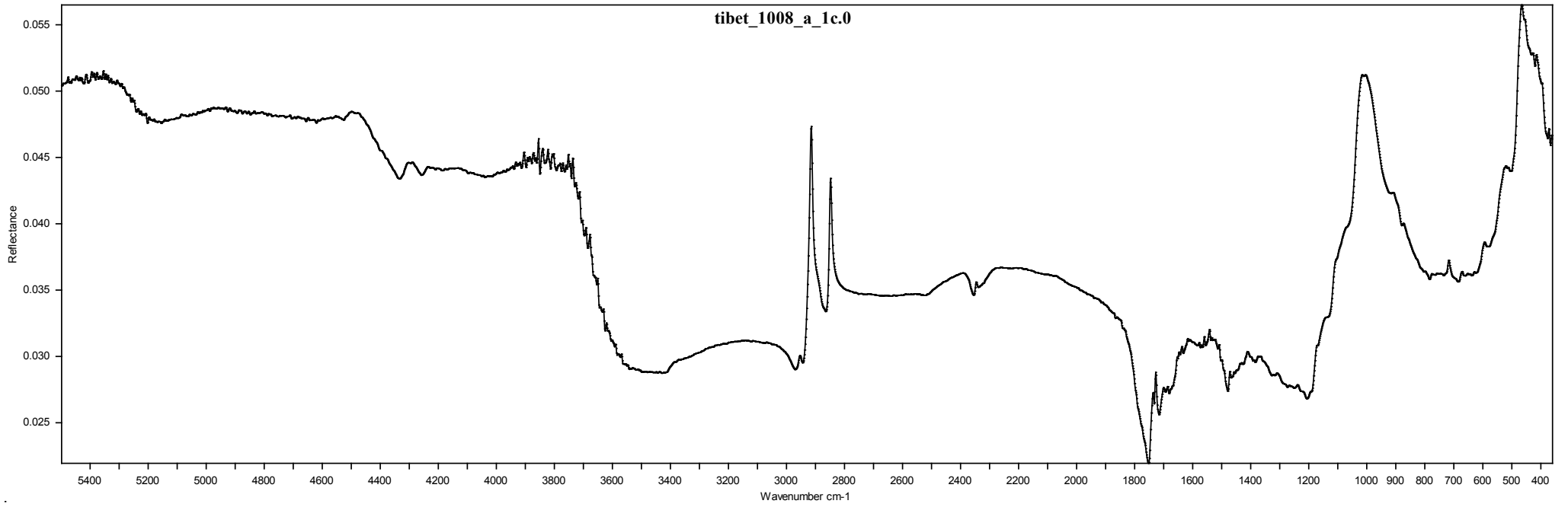
Scanning parameters

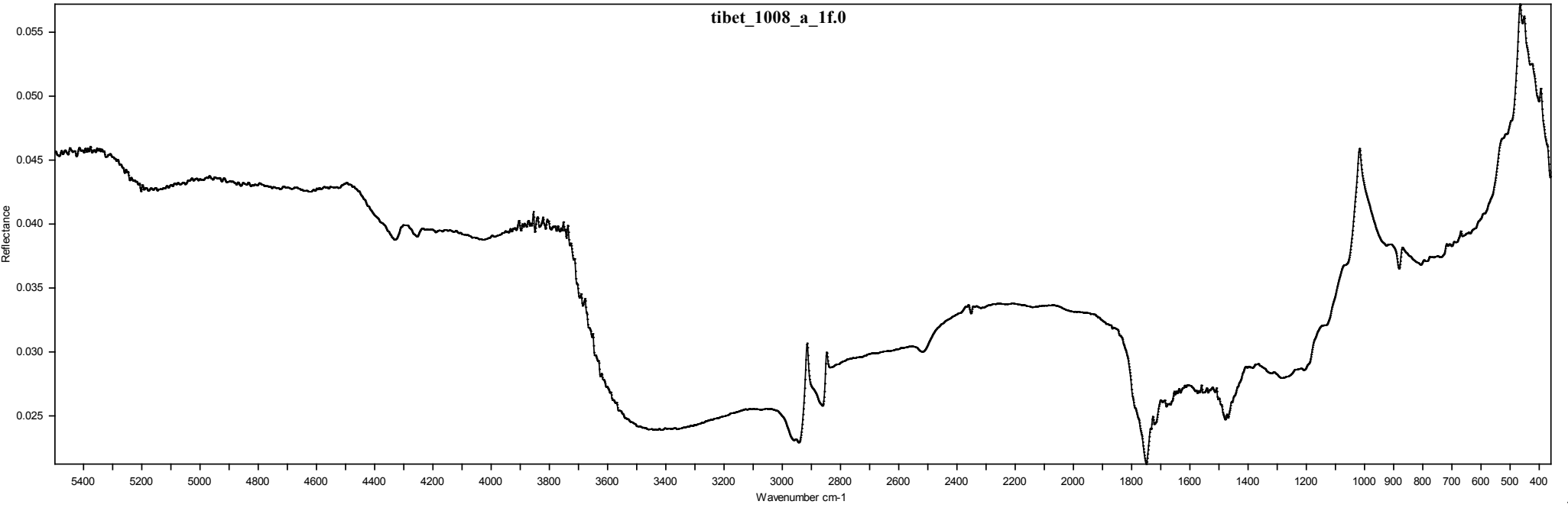
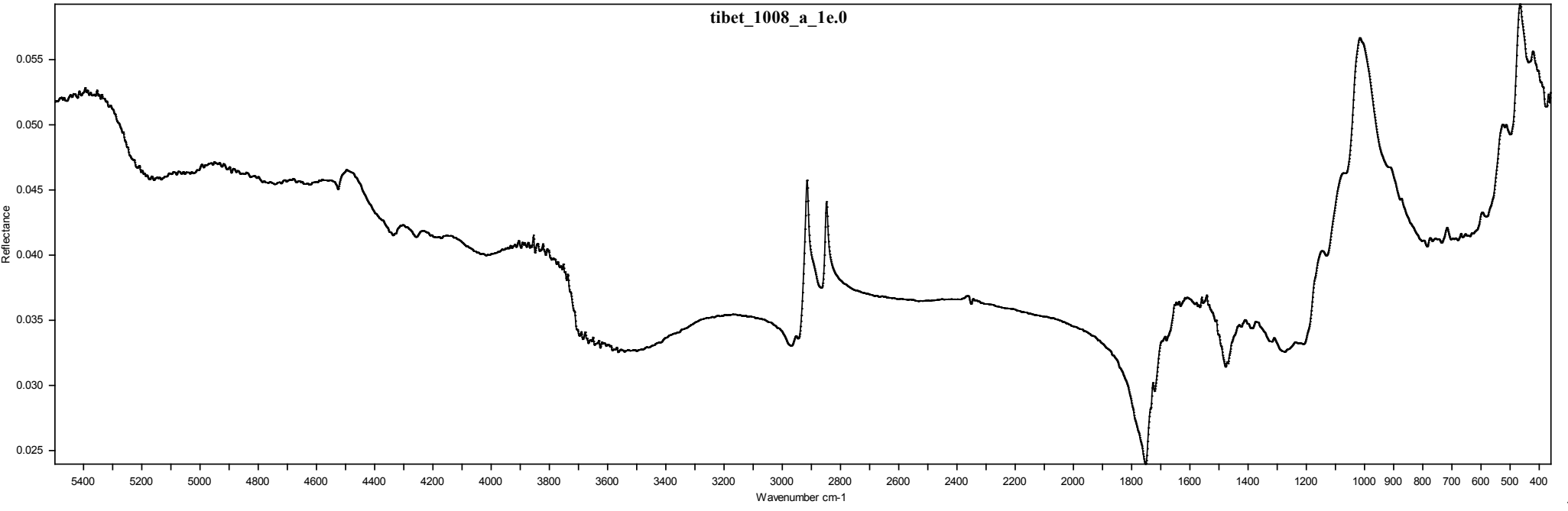
Instrument: BRUKER ALPHA
Scanning mode: FTIR external reflection mode
Spectral resolution: 4 cm^{-1}
Spectral range: $360\text{-}5400\text{ cm}^{-1}$
Scan duration: 240 scans

Spectra: tibet_1008_1a_1a ... _1x
(filename description: signature_side a/b_number of scan)

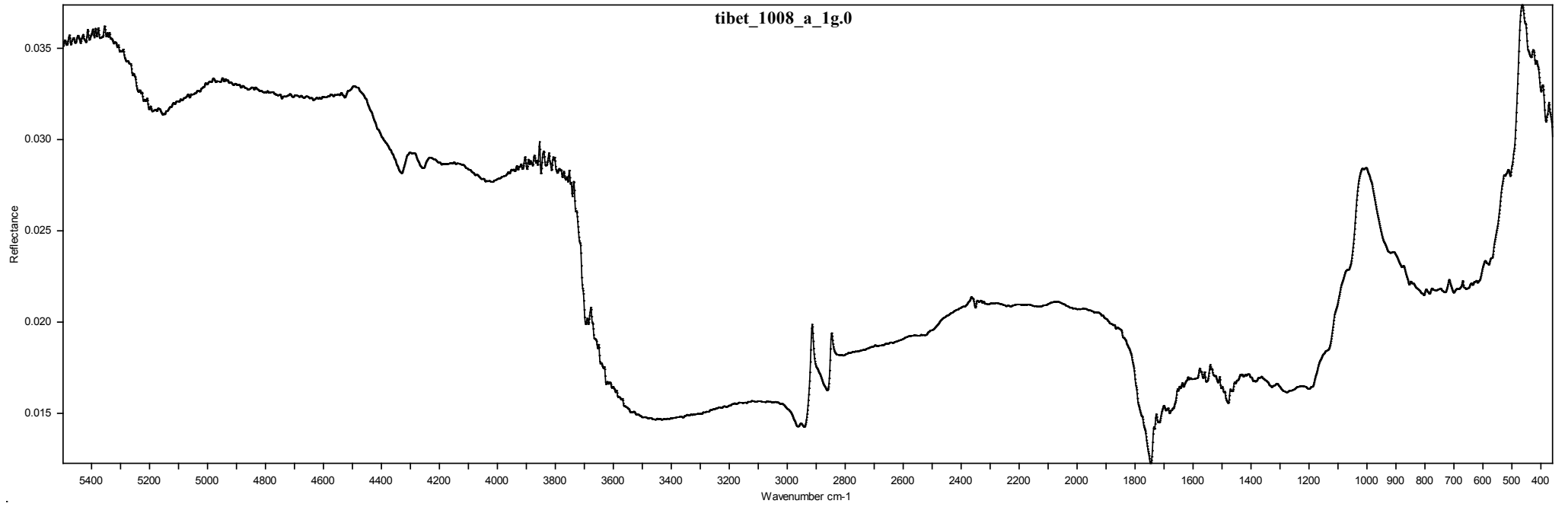




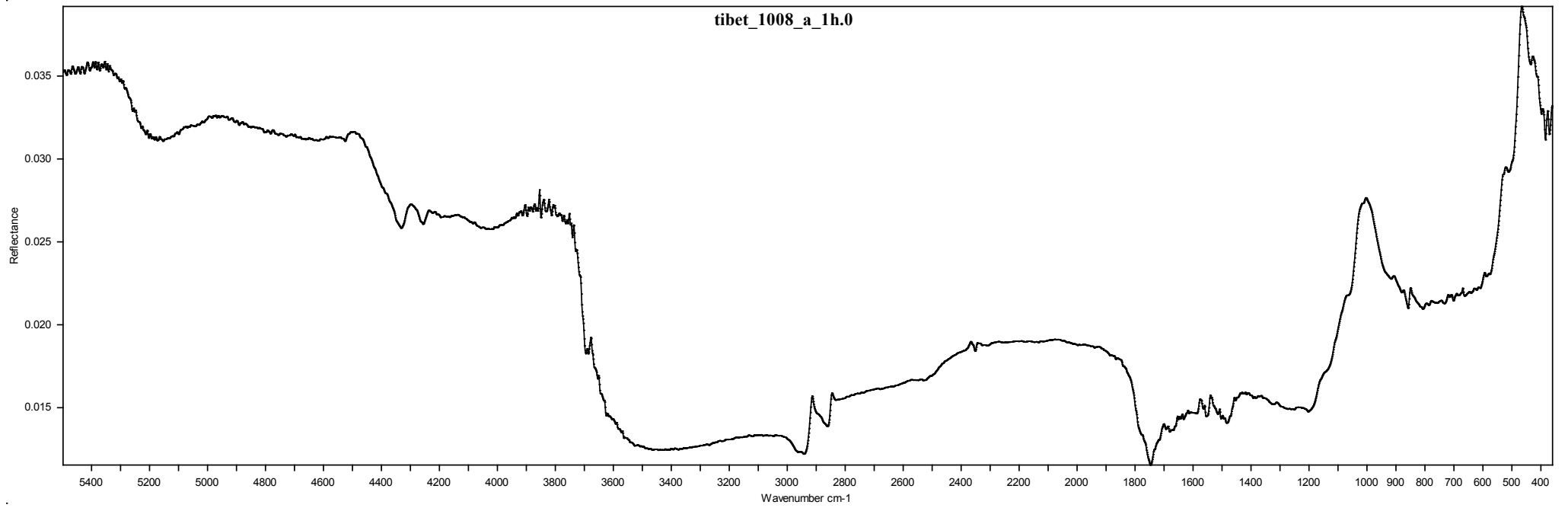


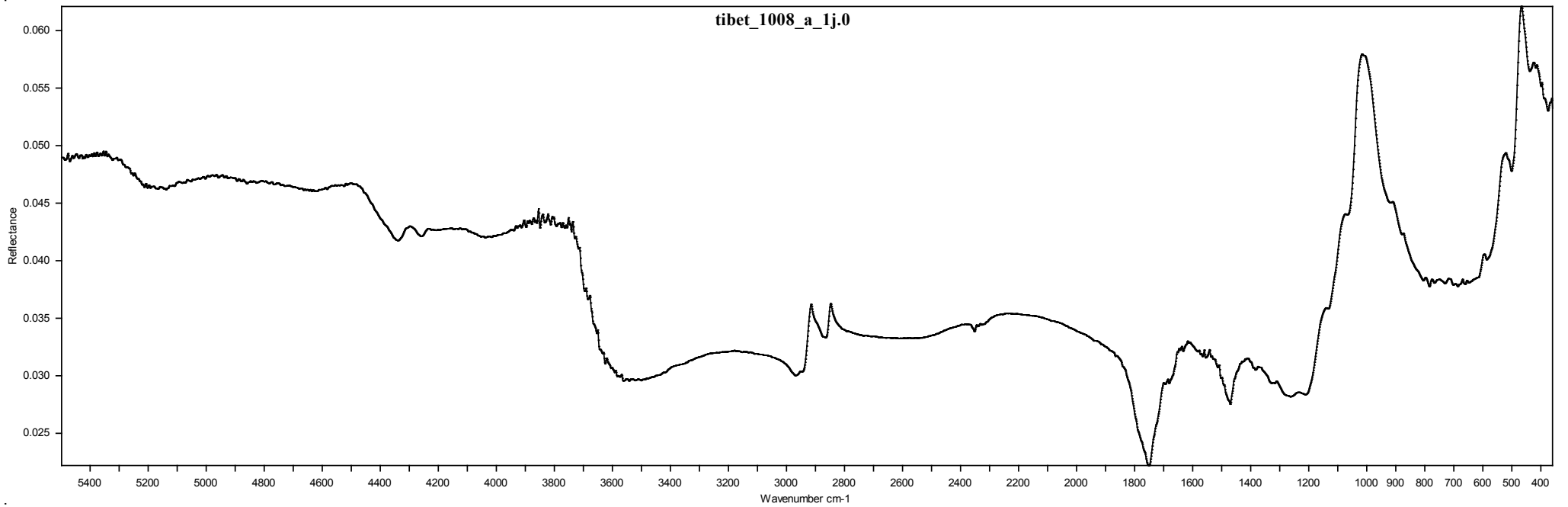
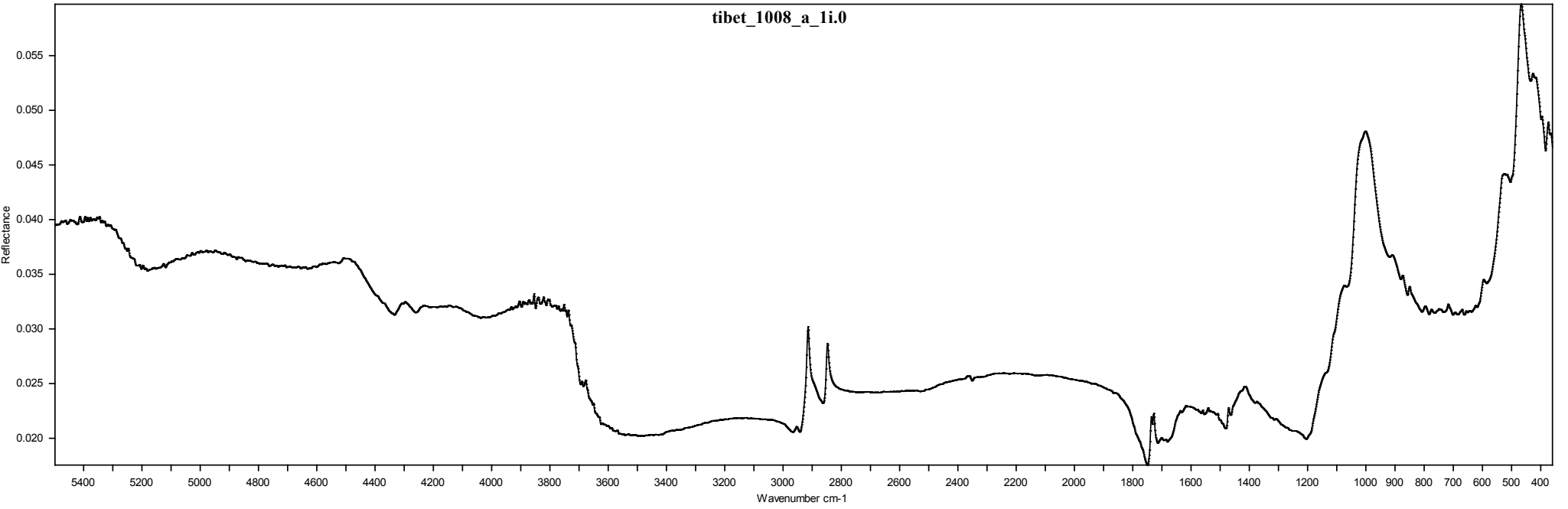


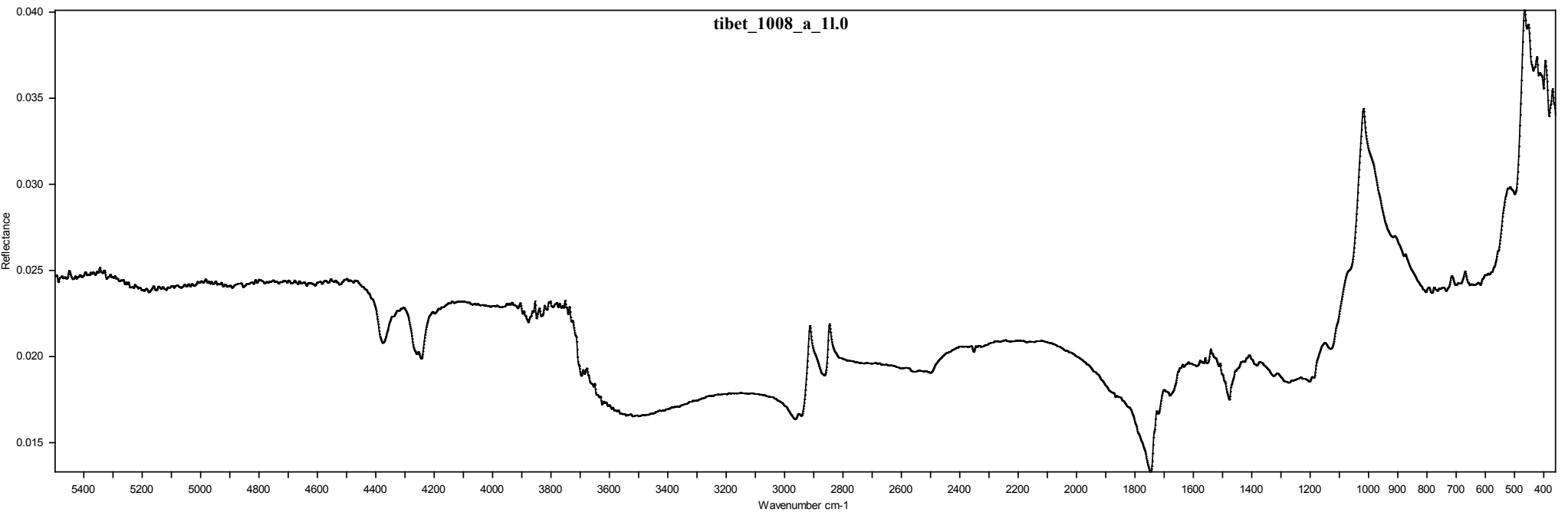
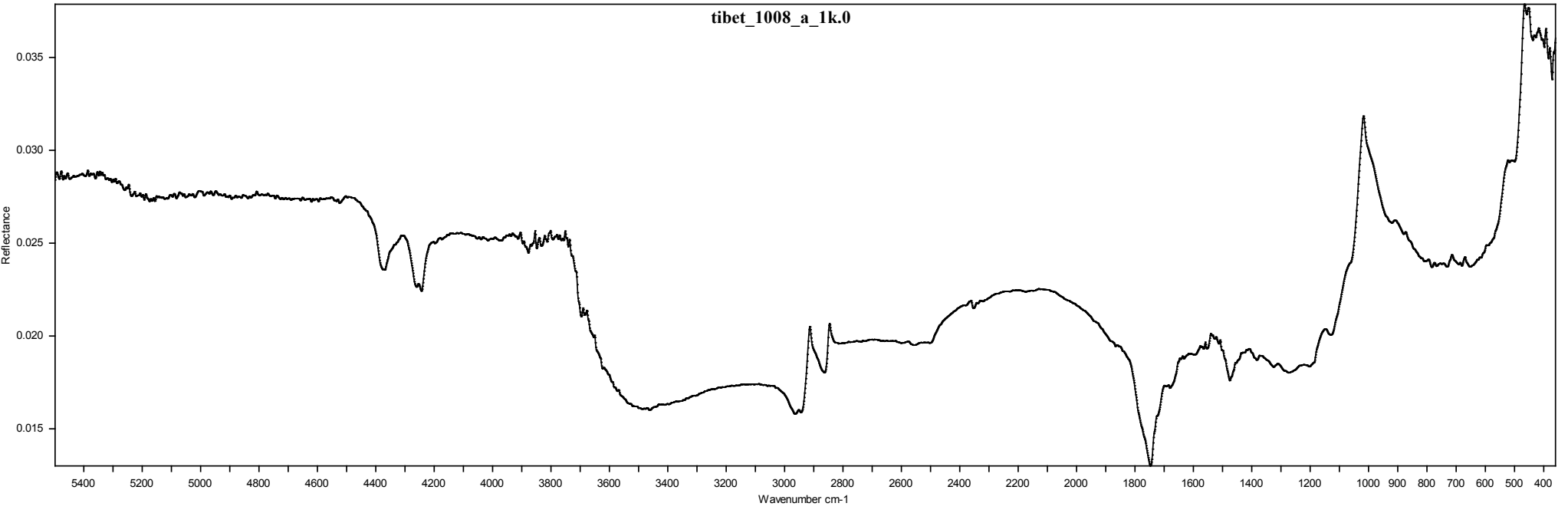
tibet_1008_a_1g.0



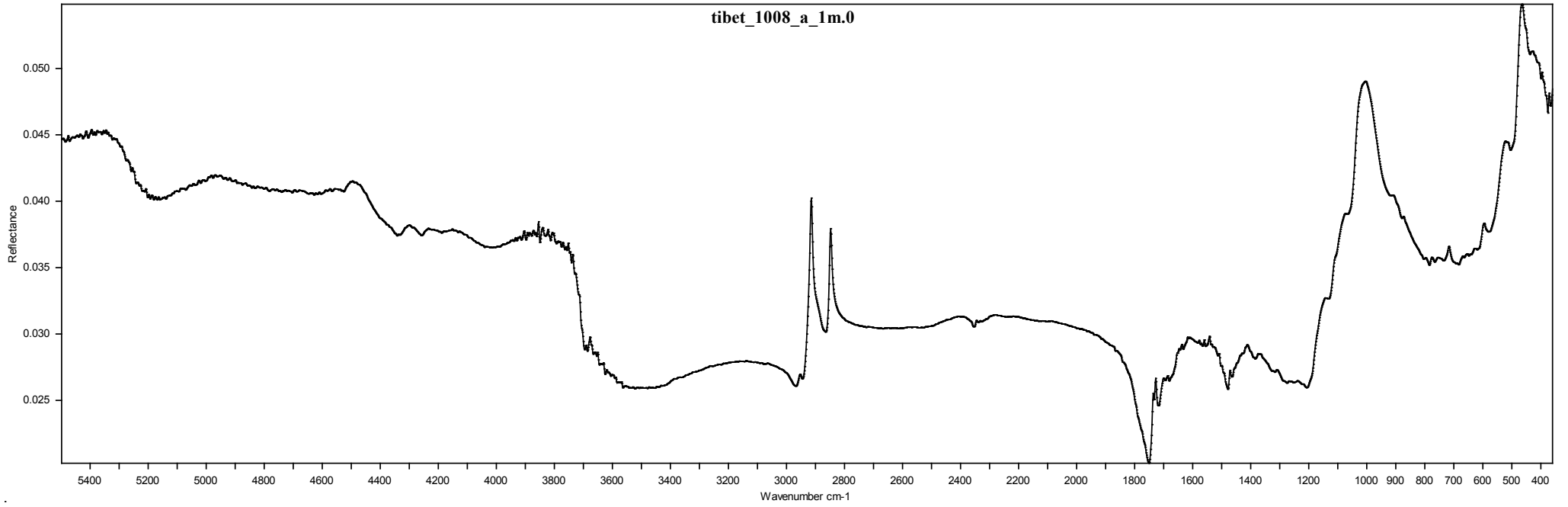
tibet_1008_a_1h.0



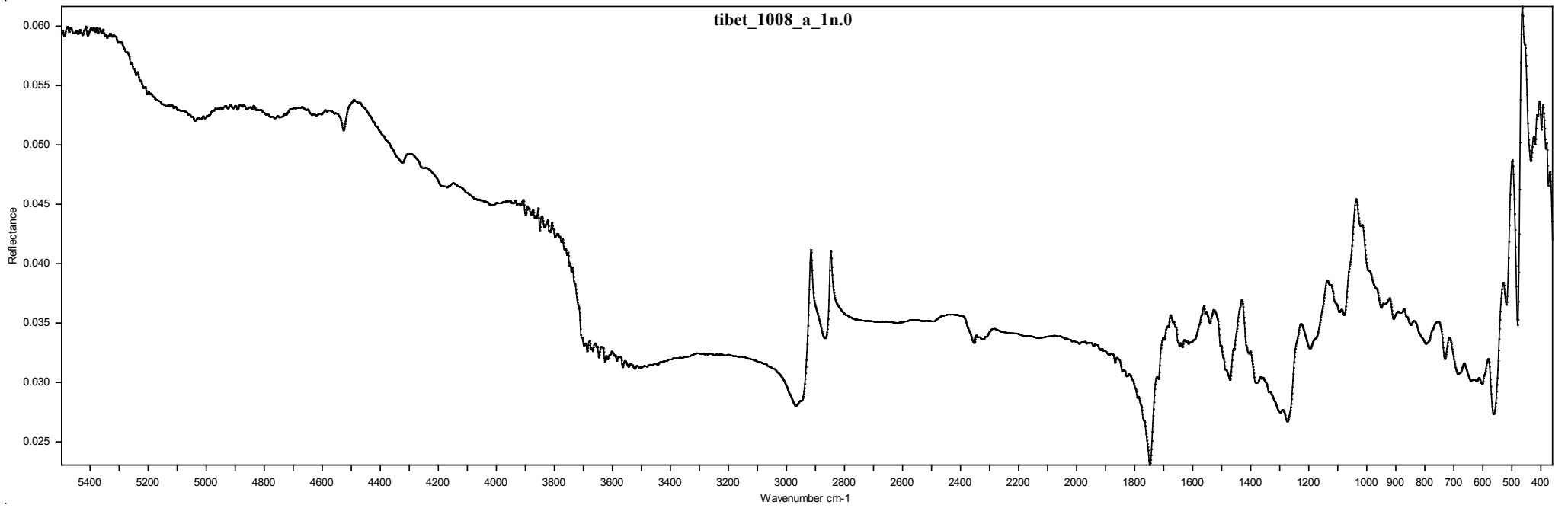


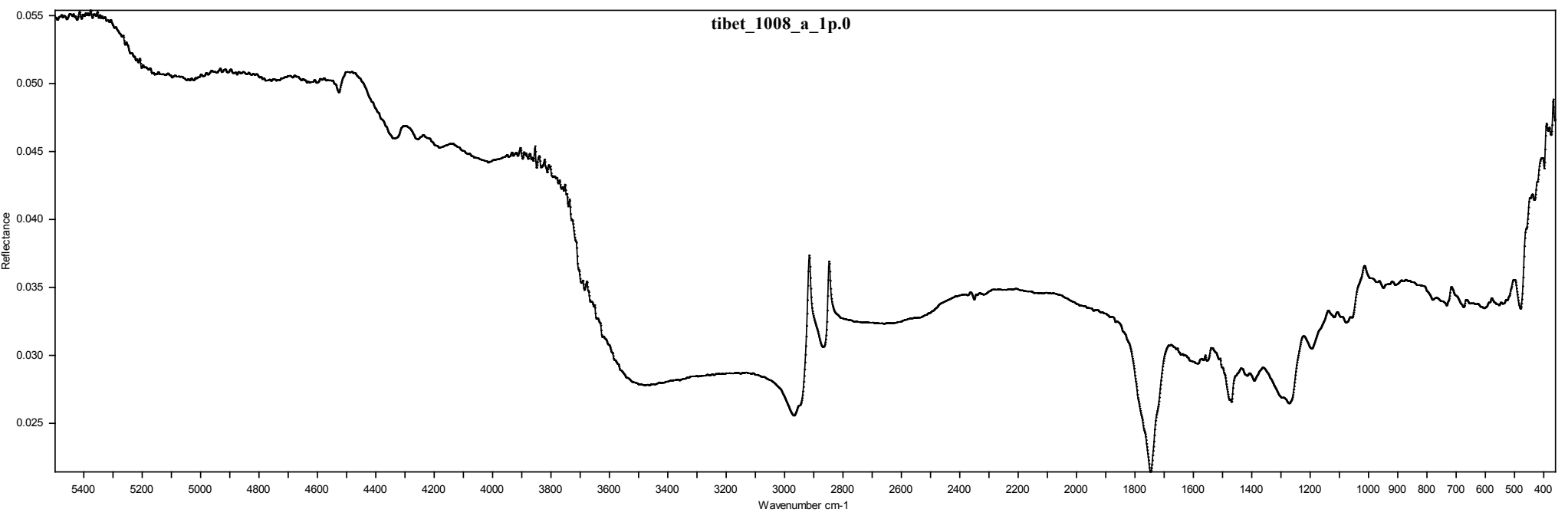
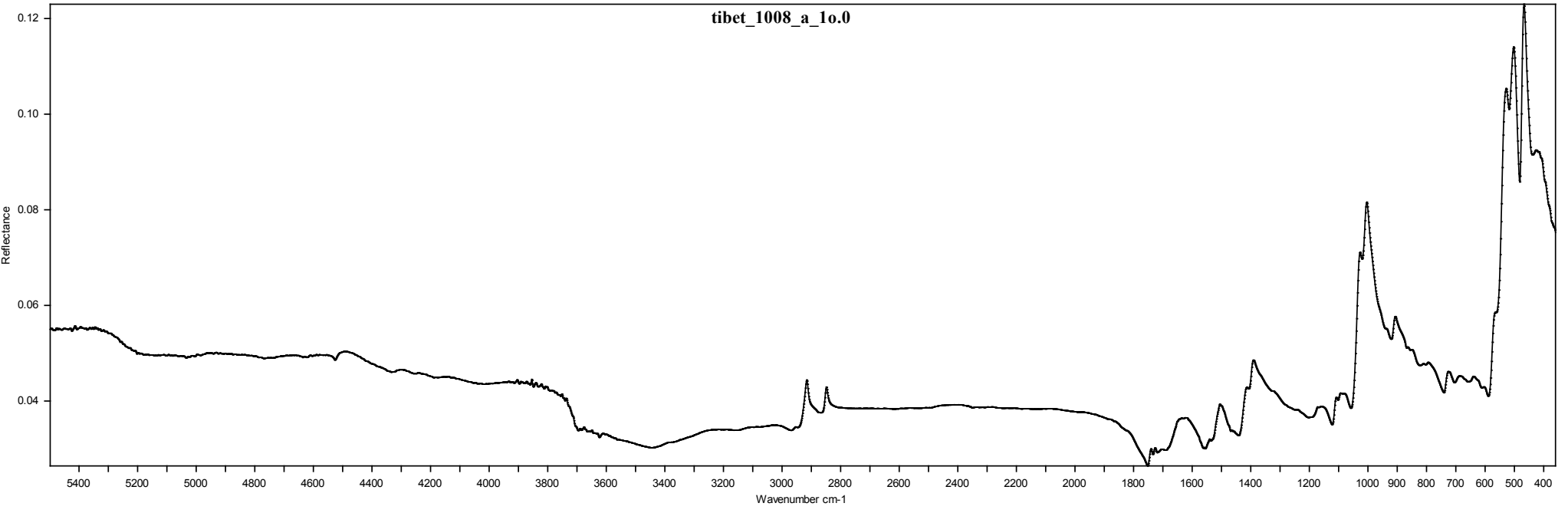


tibet_1008_a_1m.0

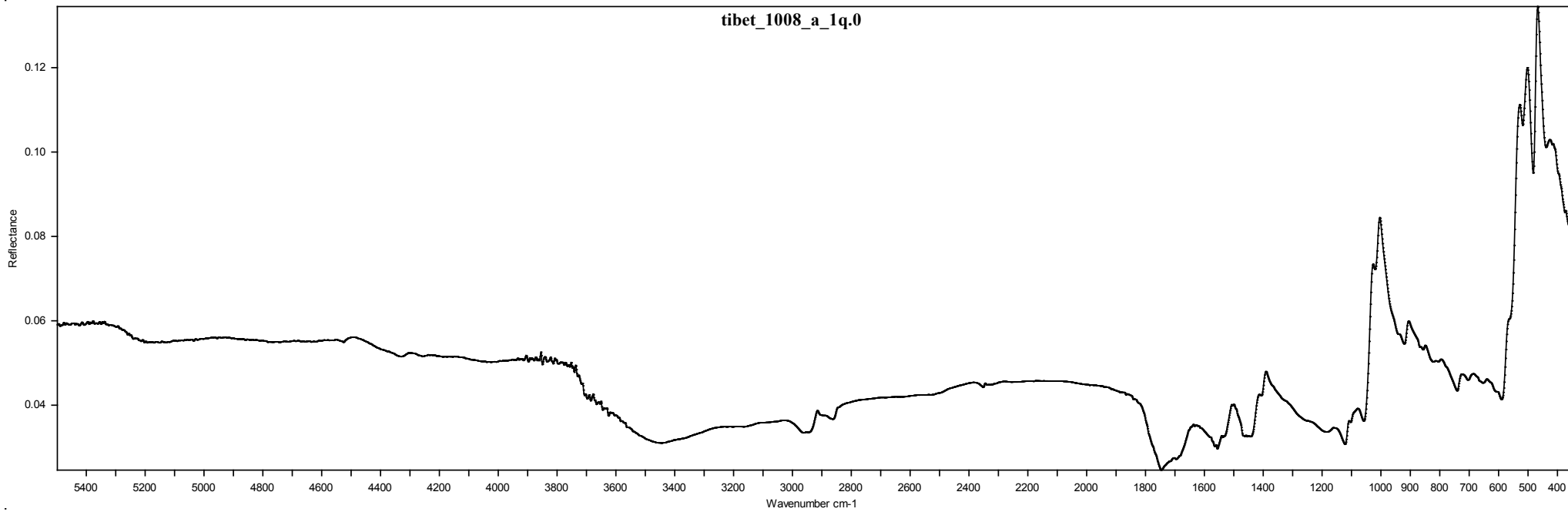


tibet_1008_a_1n.0





tibet_1008_a_1q.0



tibet_1008_a_1r.0

