

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.tibet. 513

Analytical methods: X-Ray Fluorescence Spectroscopy (XRF): p. 2-10
Fourier Transform Infrared Spectroscopy (FTIR): p. 11-19

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

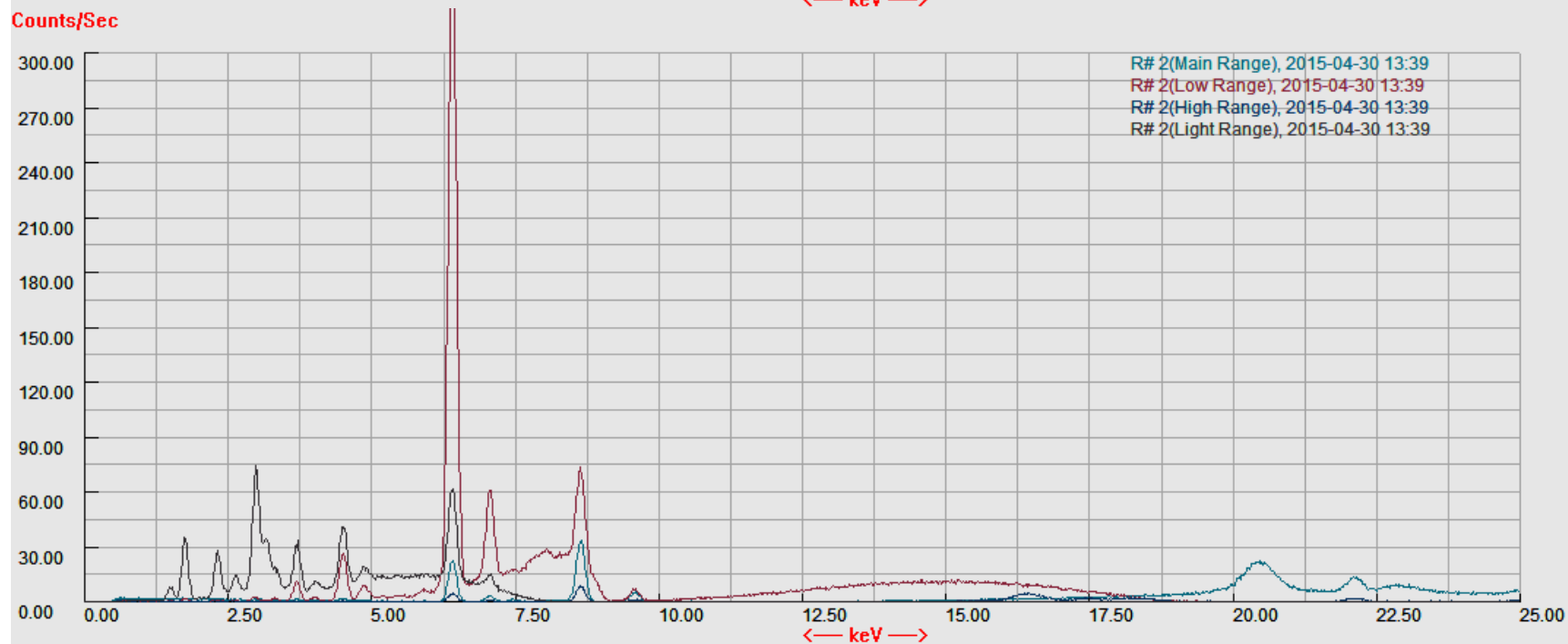
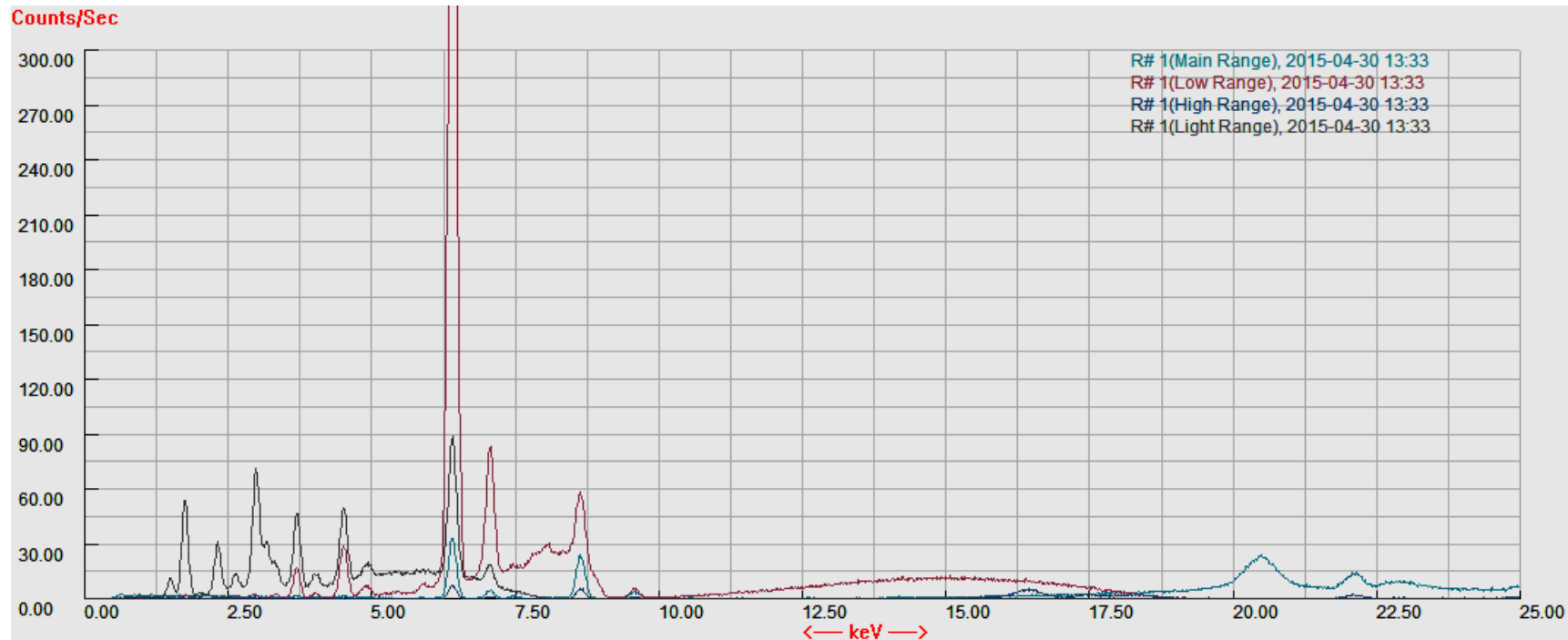
XRF-Analysis: Mapping of measurement points and spectra

Scanning parameters

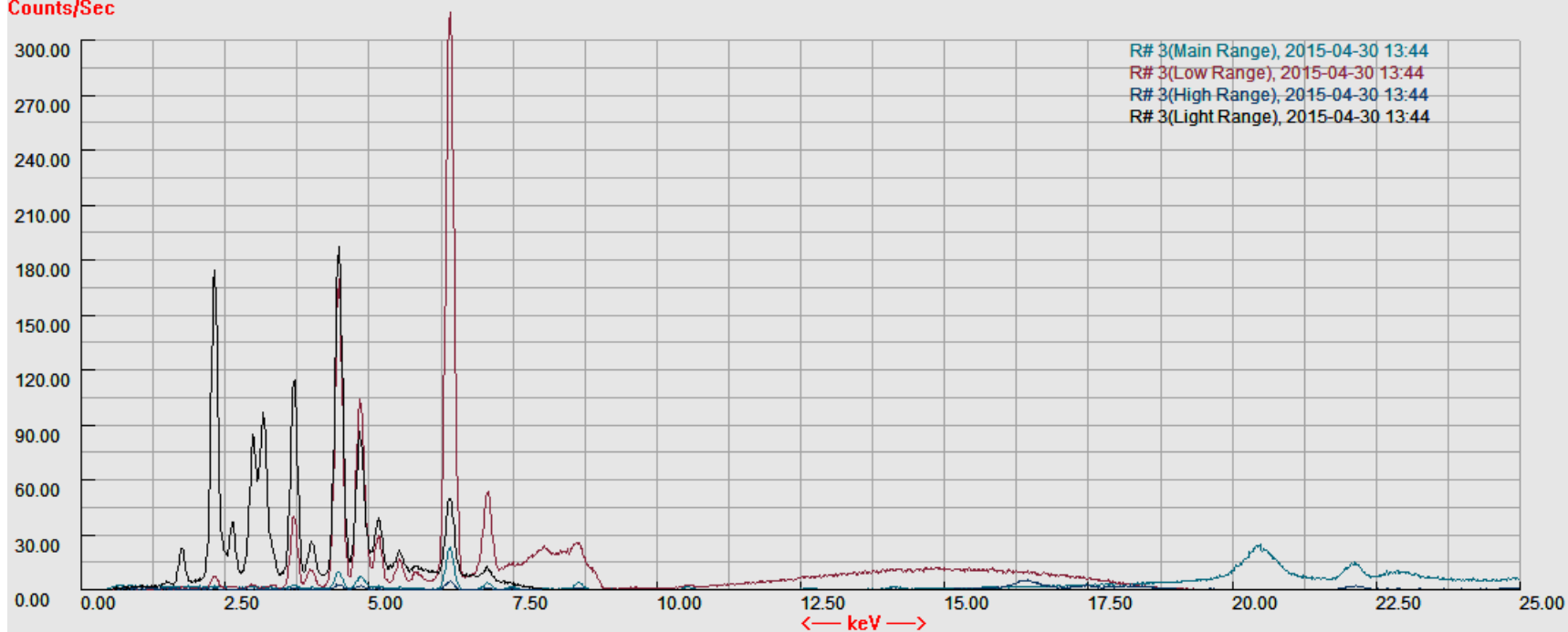
Instrument: NITON XL3t GOLD D+
Scanning mode: Mining (Cu, Zn)
Spectral resolution: 4 cm^{-1}
Scan duration: 150 s

Spectra: #1 ... #16

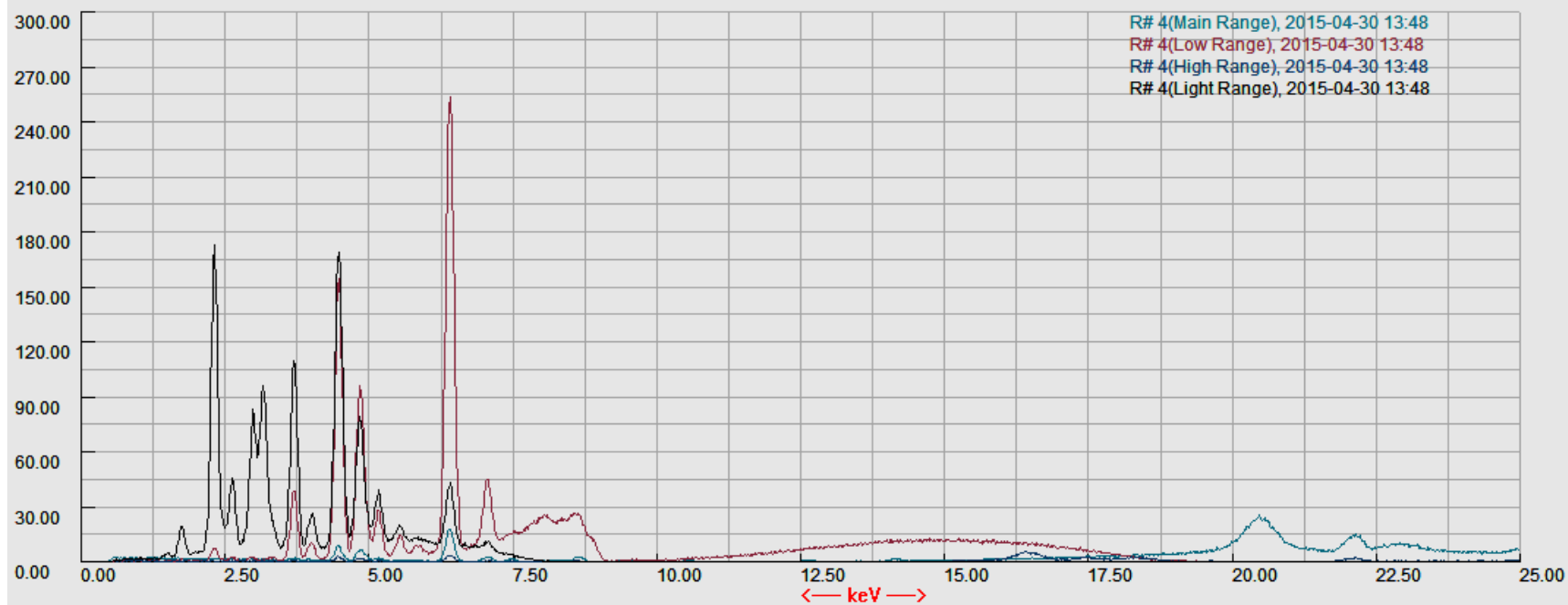




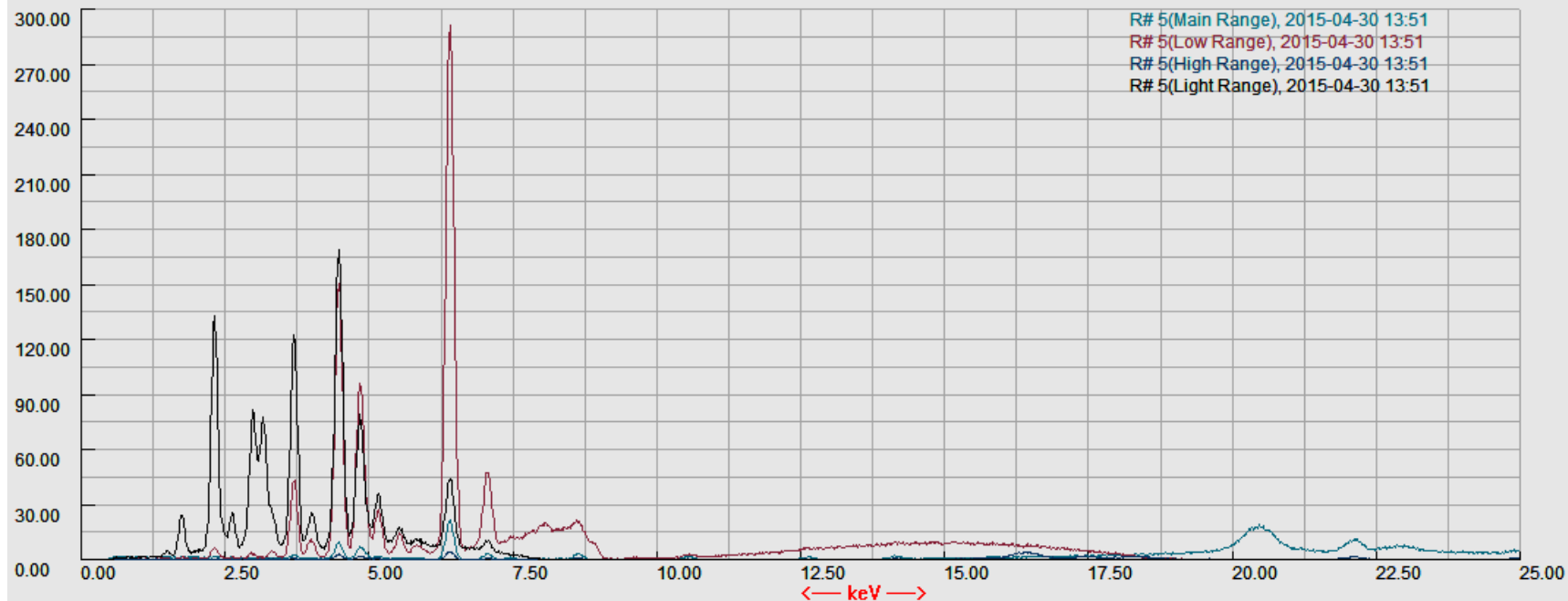
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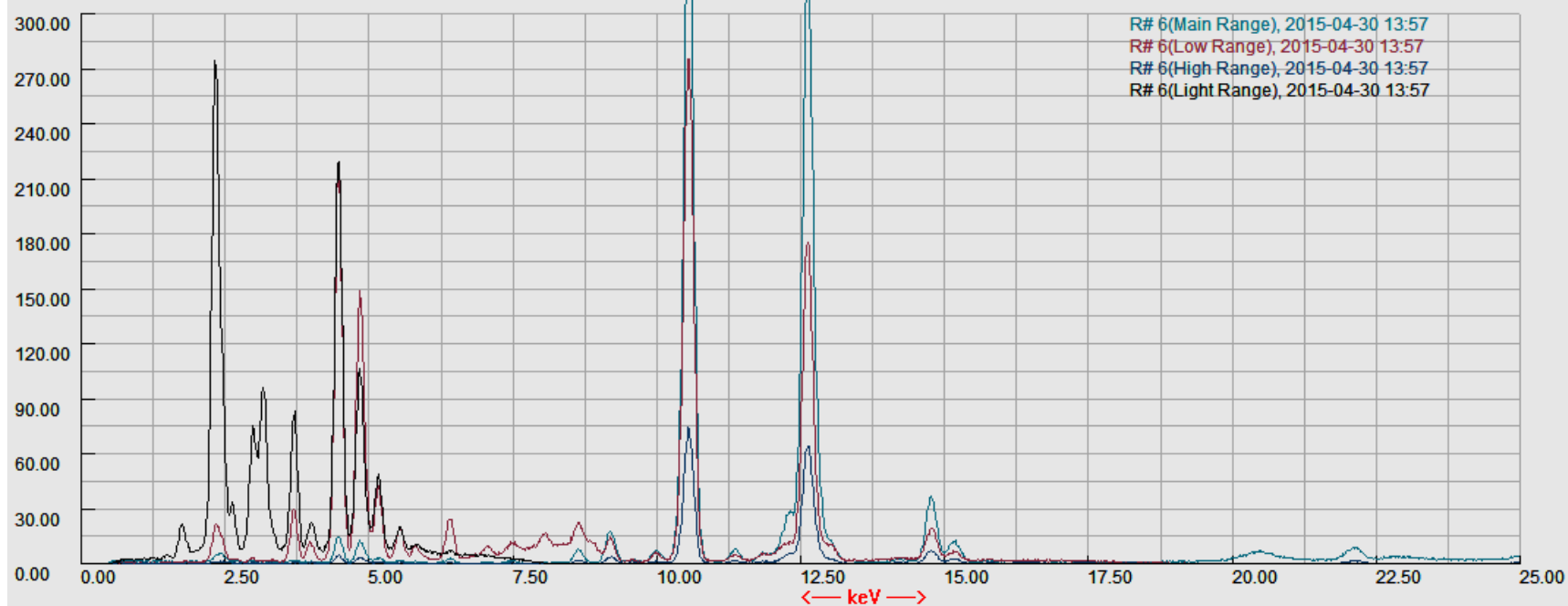
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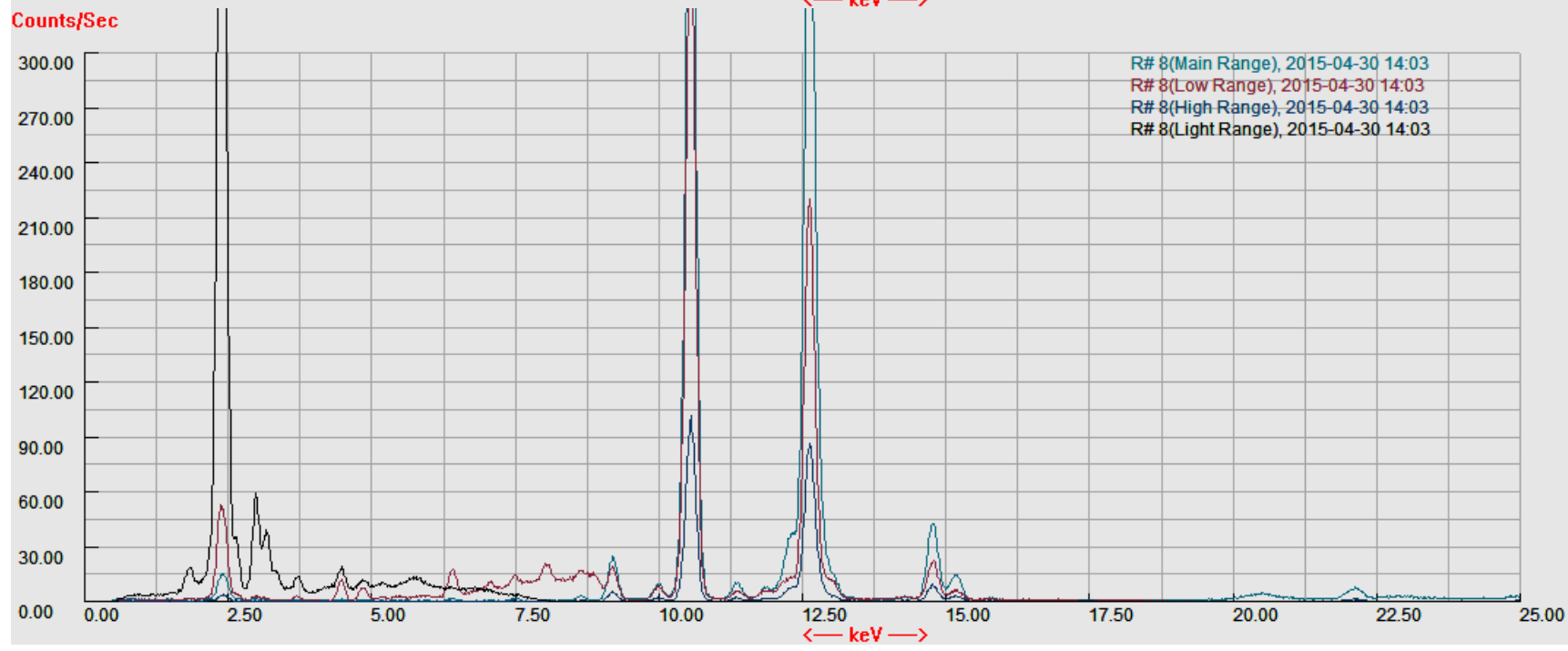
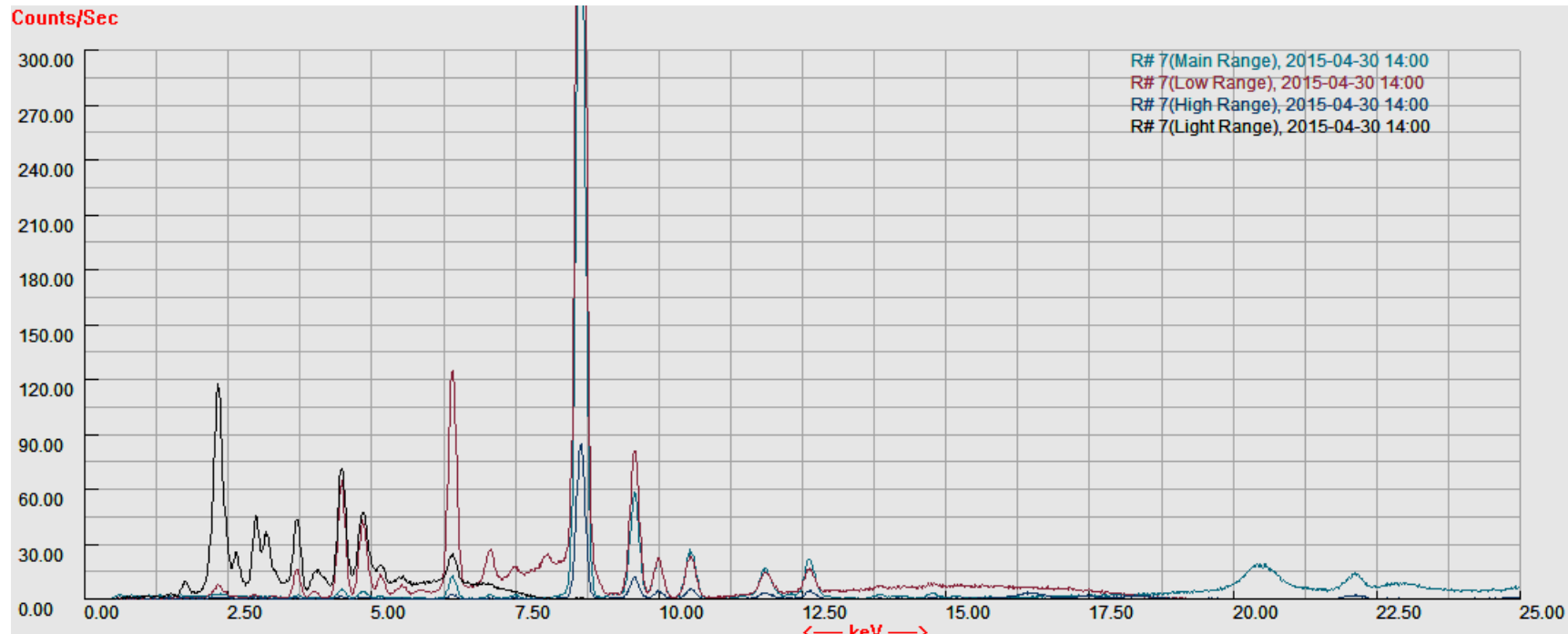


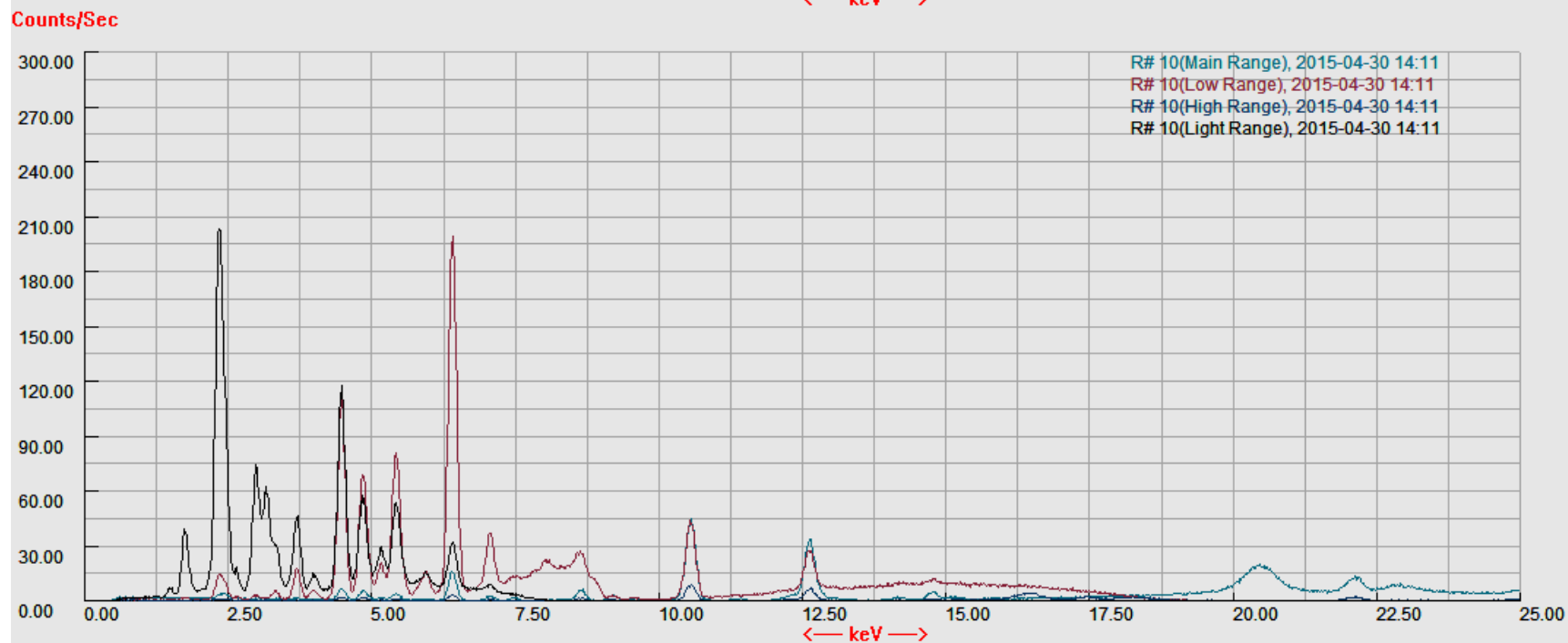
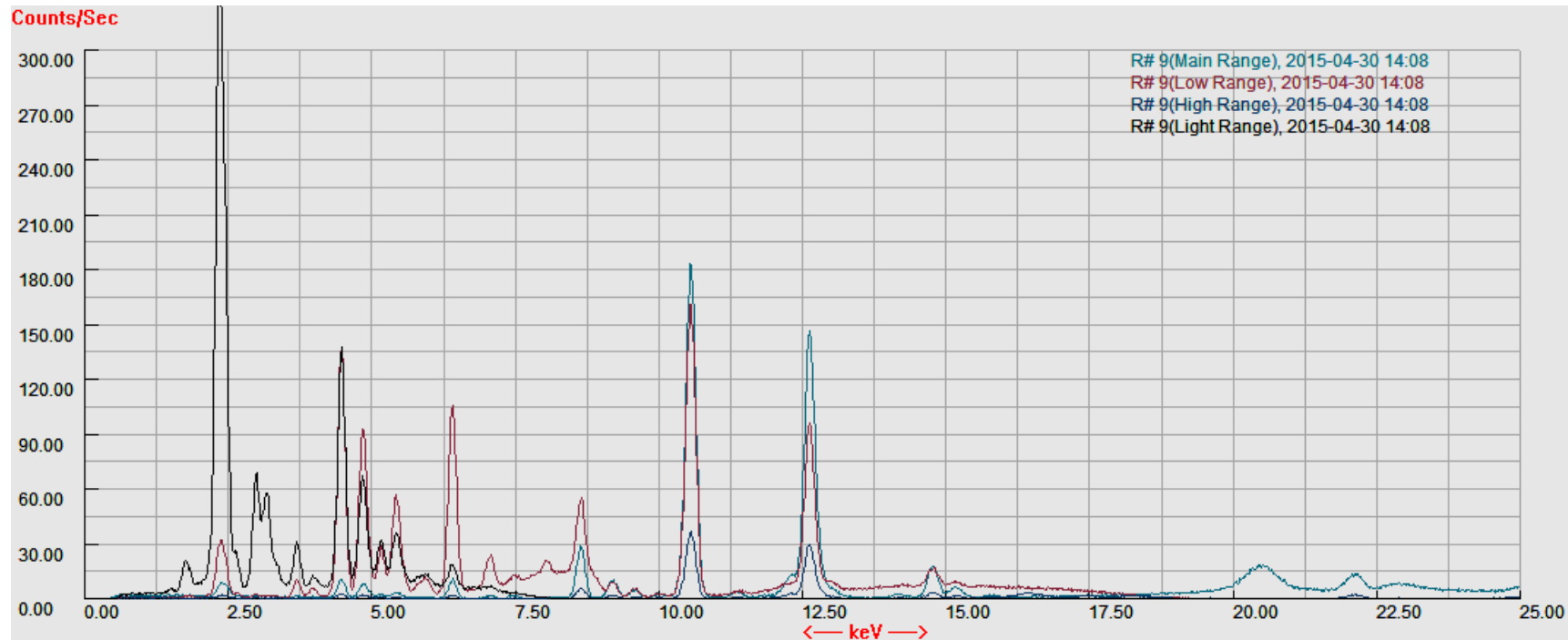
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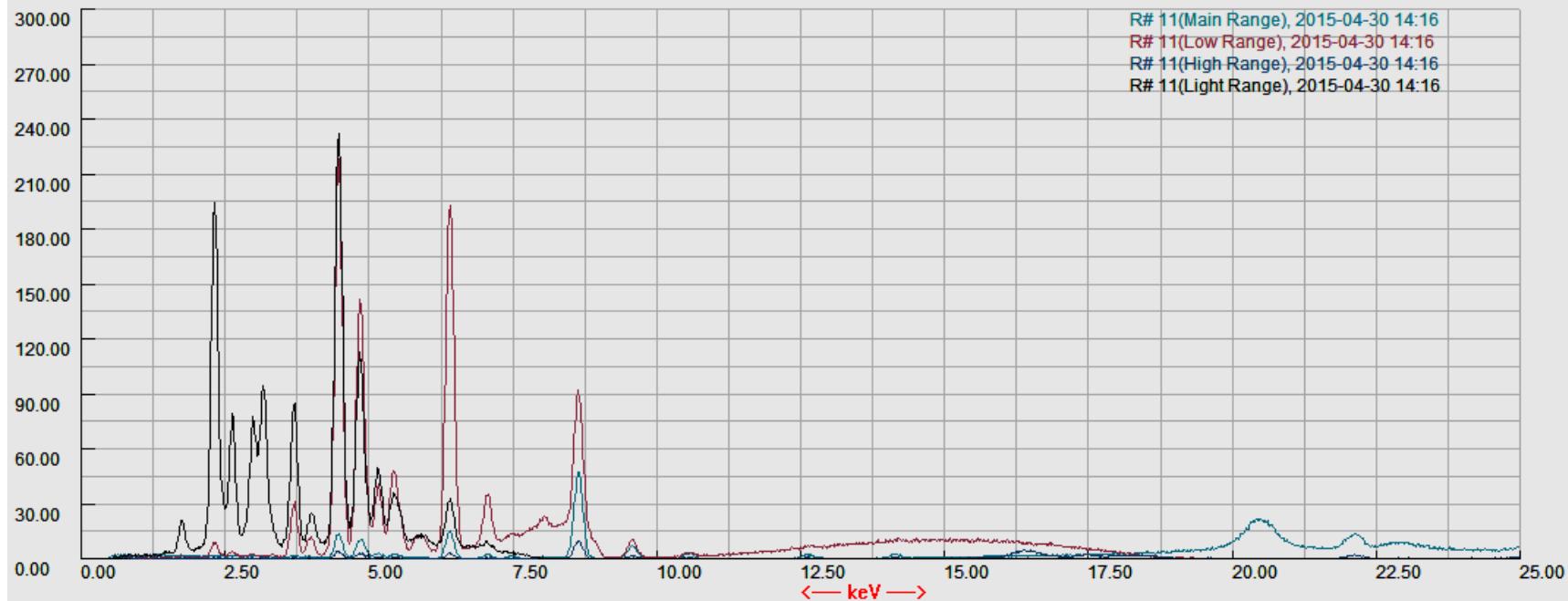
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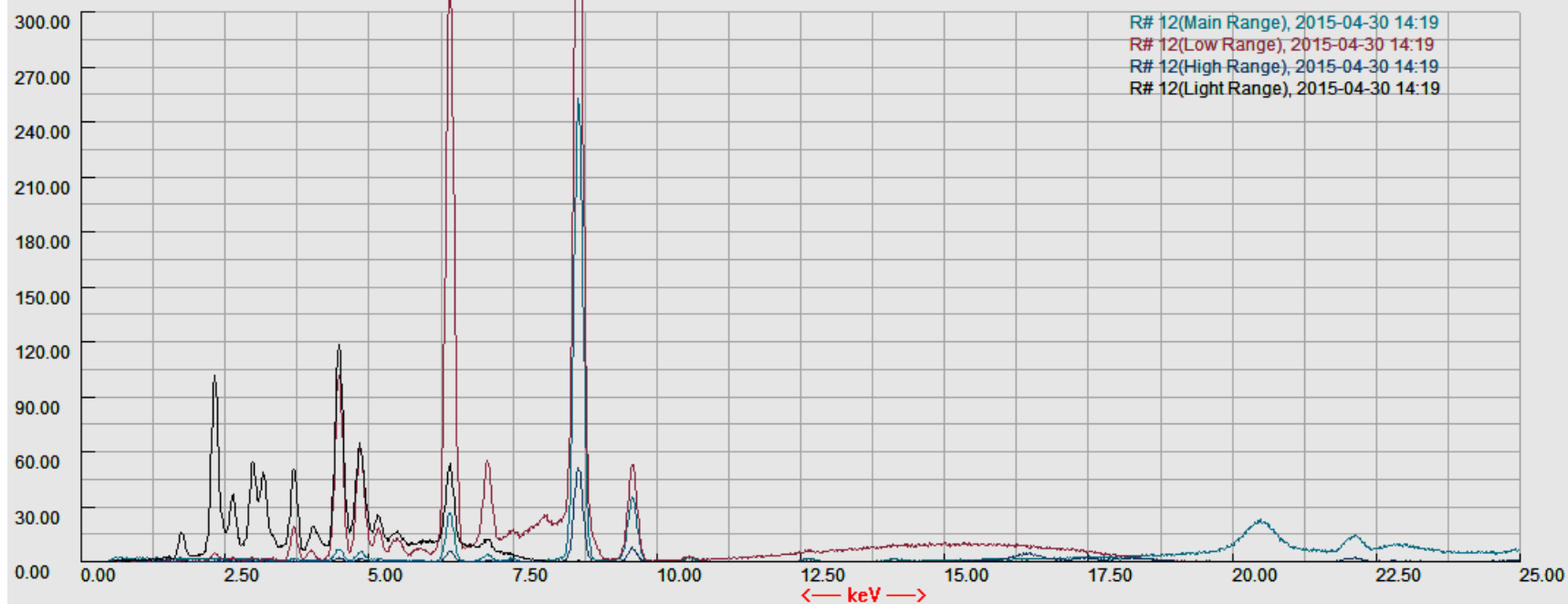




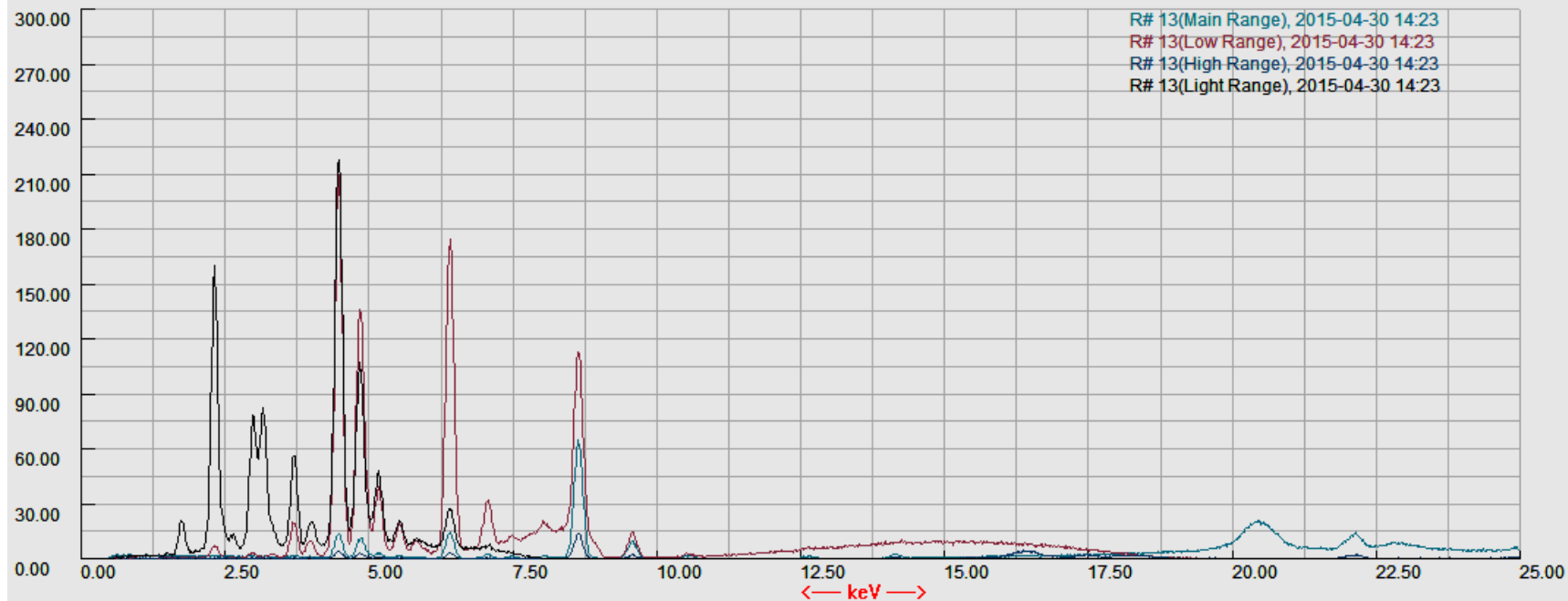
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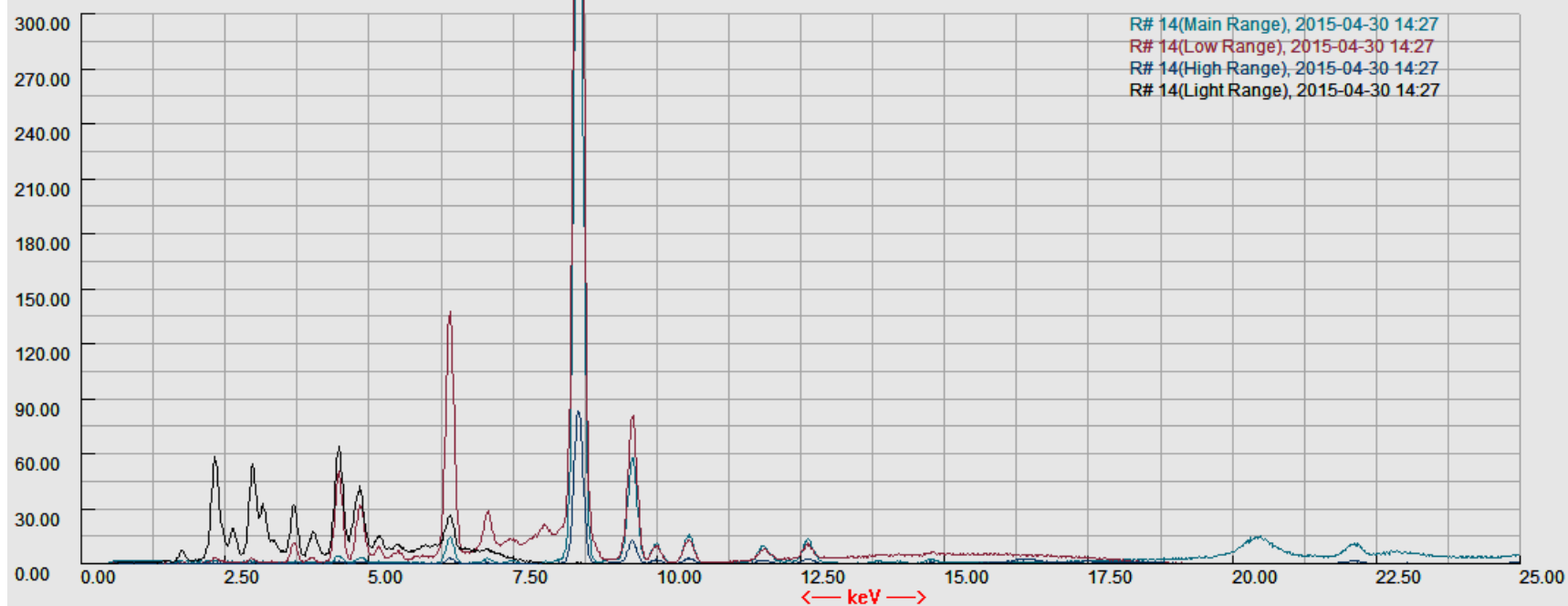
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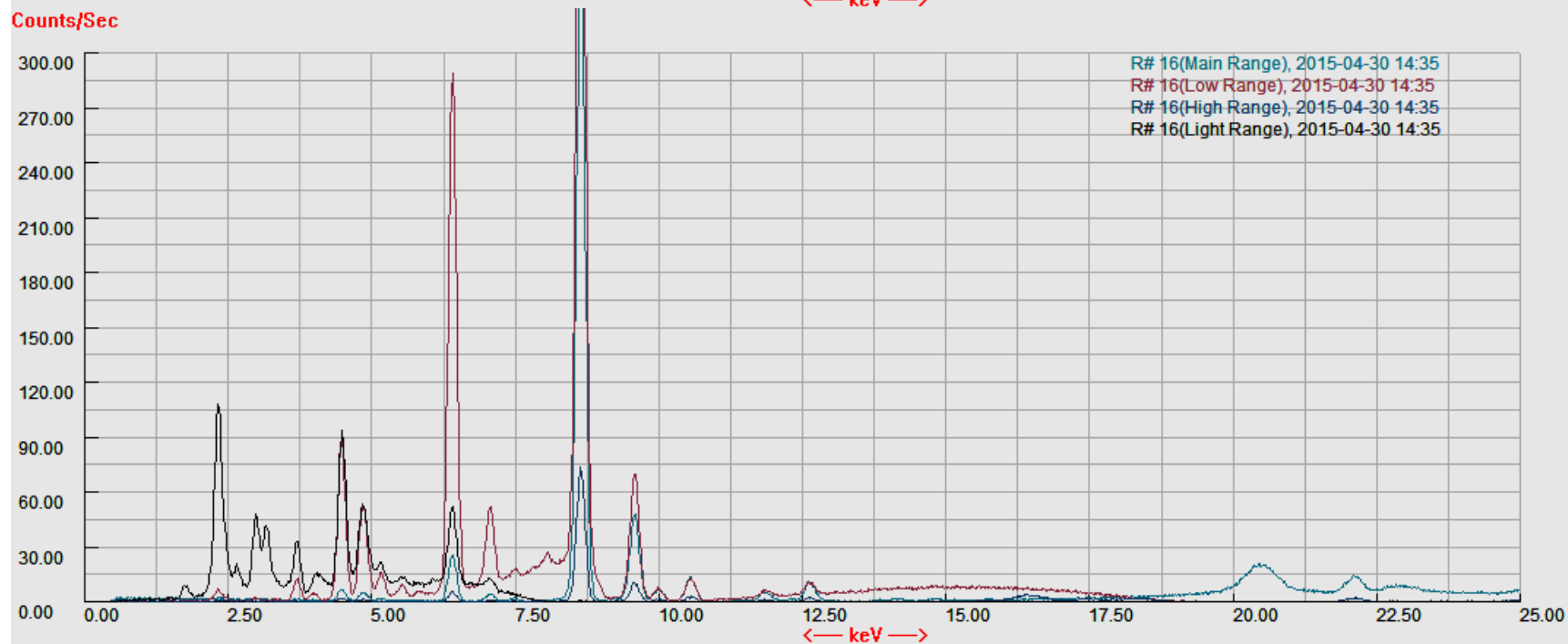
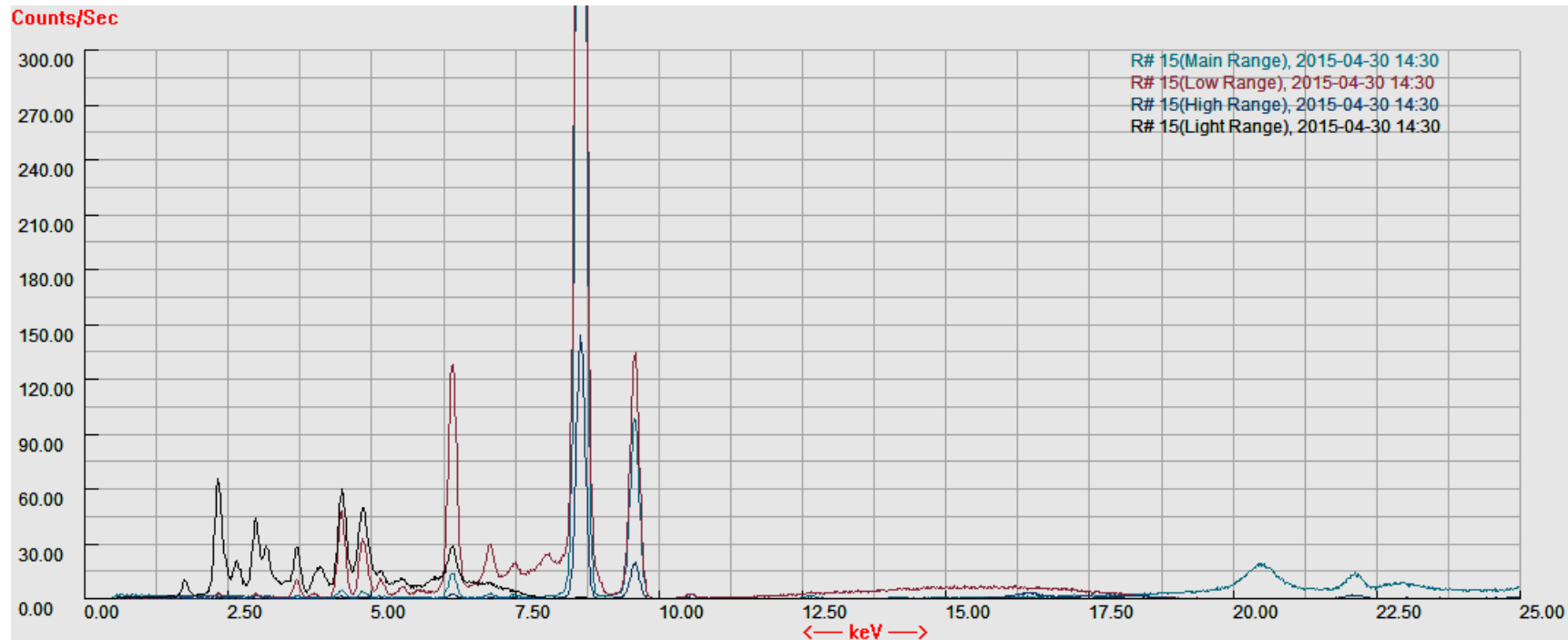


Counts/Sec



Counts/Sec





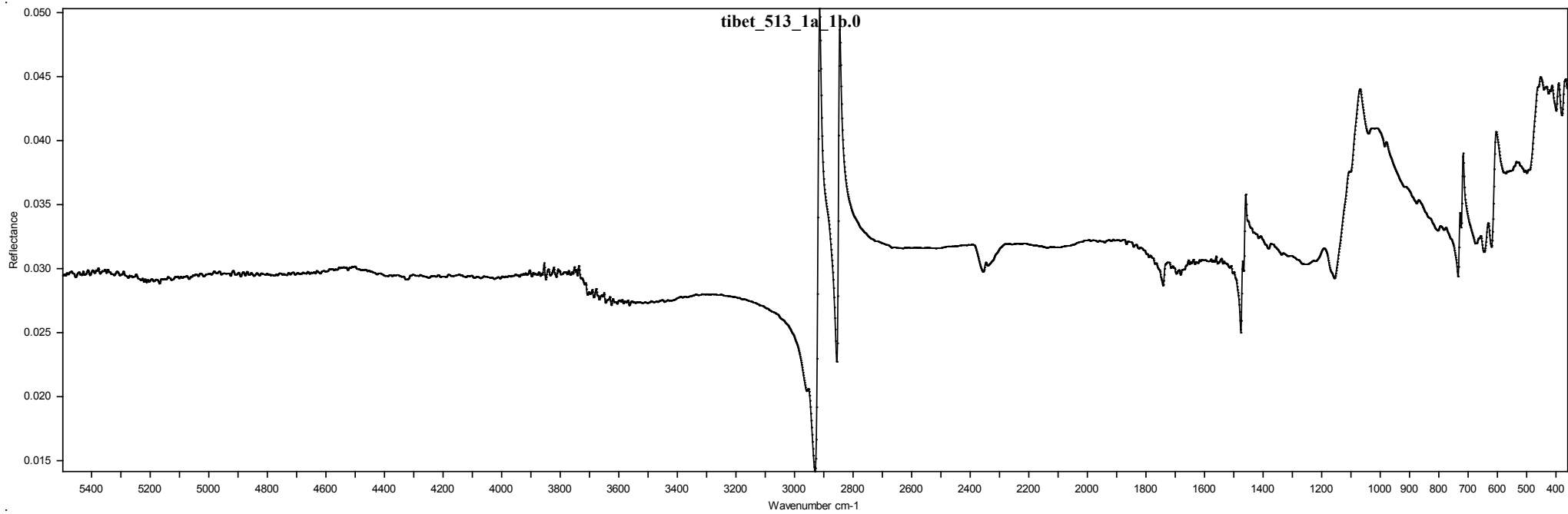
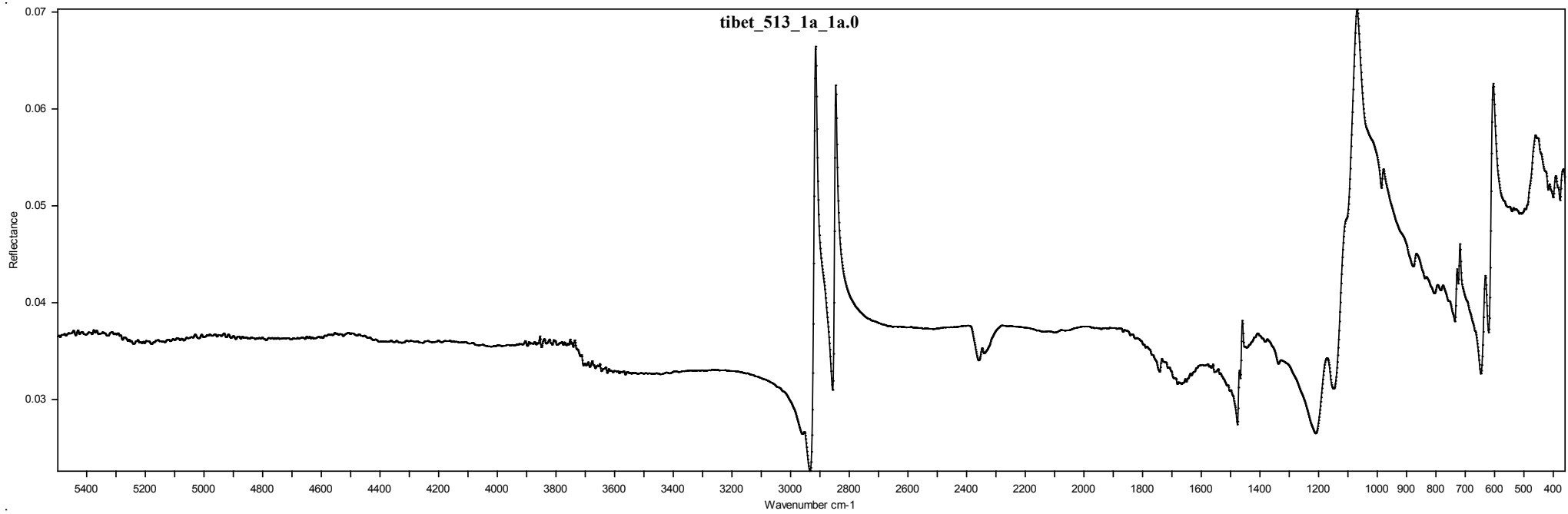
FTIR-Analysis: Mapping of measurement points and spectra

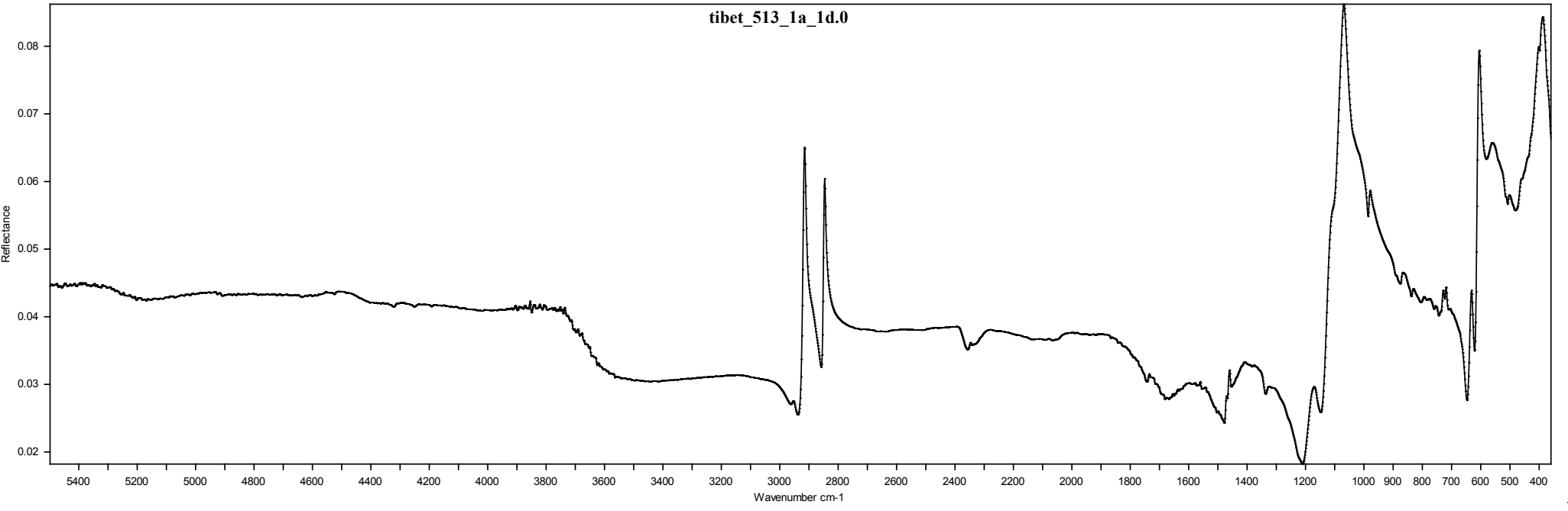
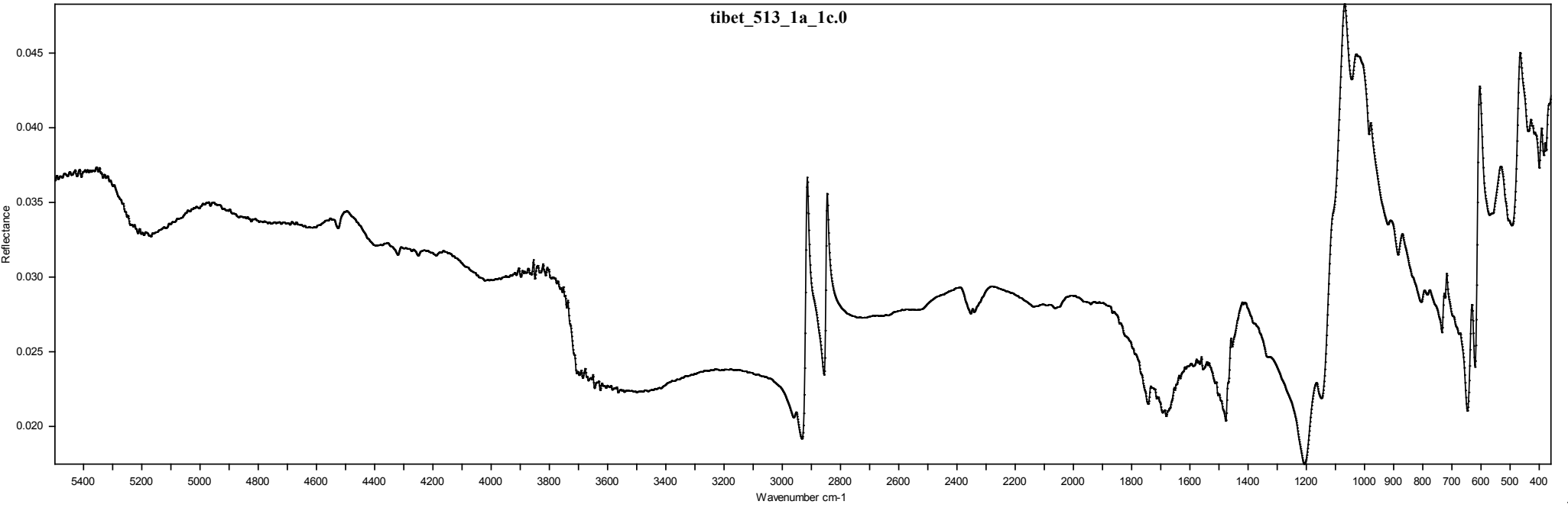
Scanning parameters

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

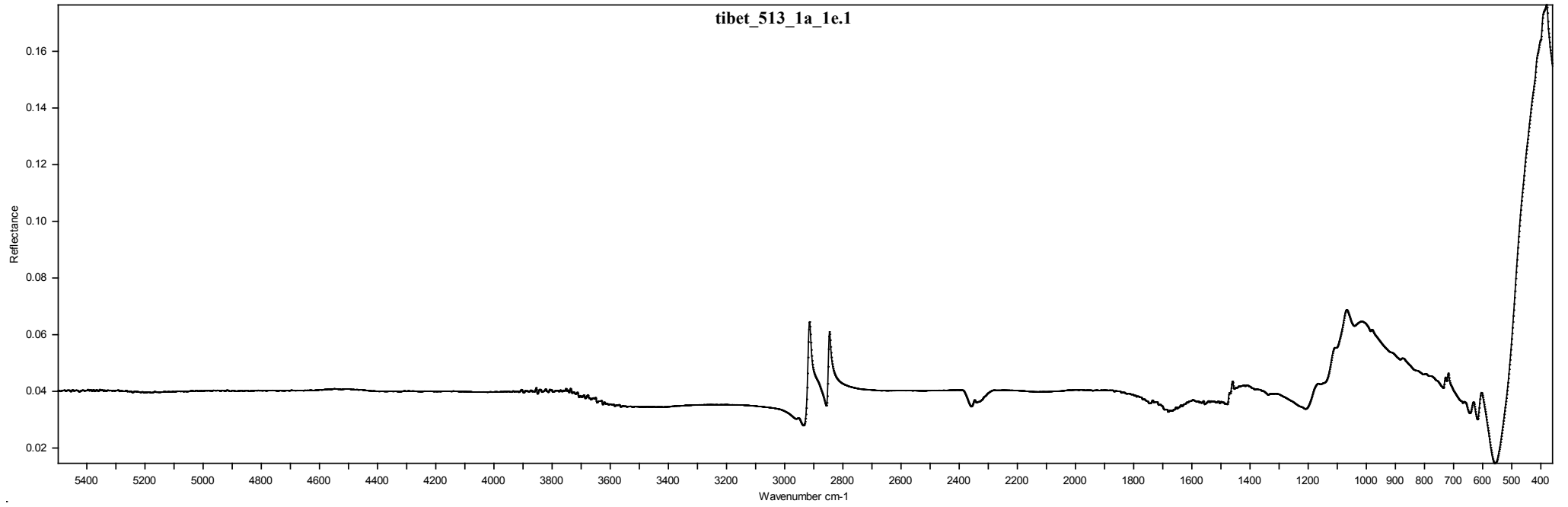
Spectra: tibet_513_1a_1a ... _1o
(filename description: signature_side a/b_number of scan)



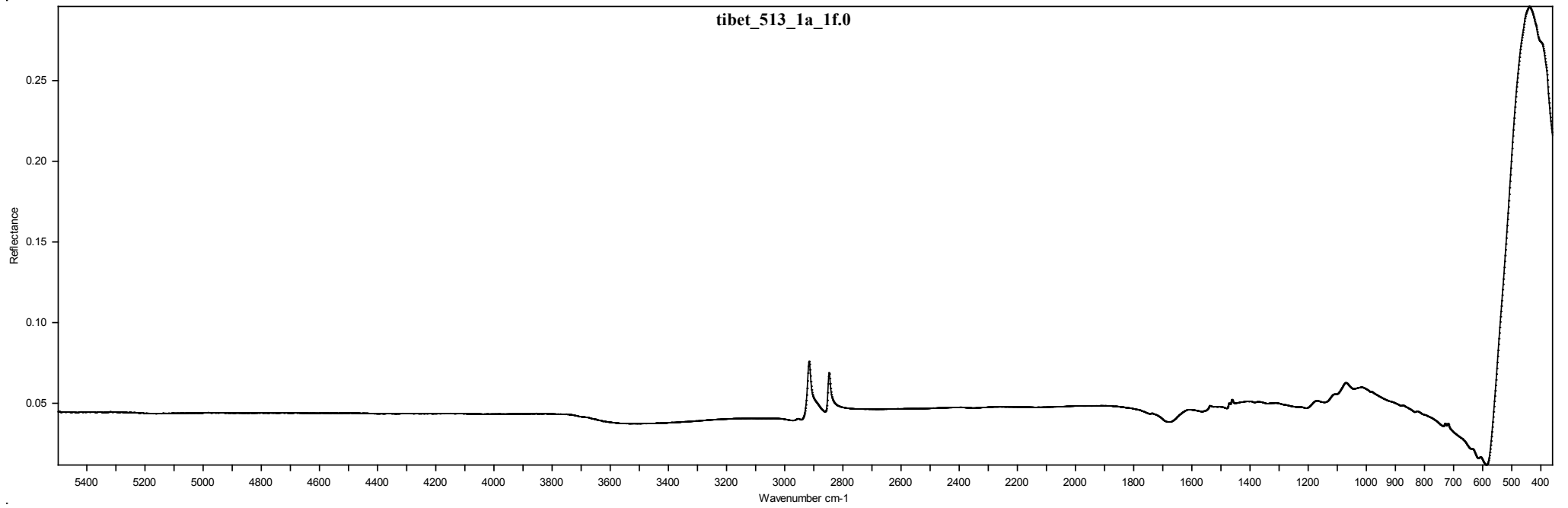




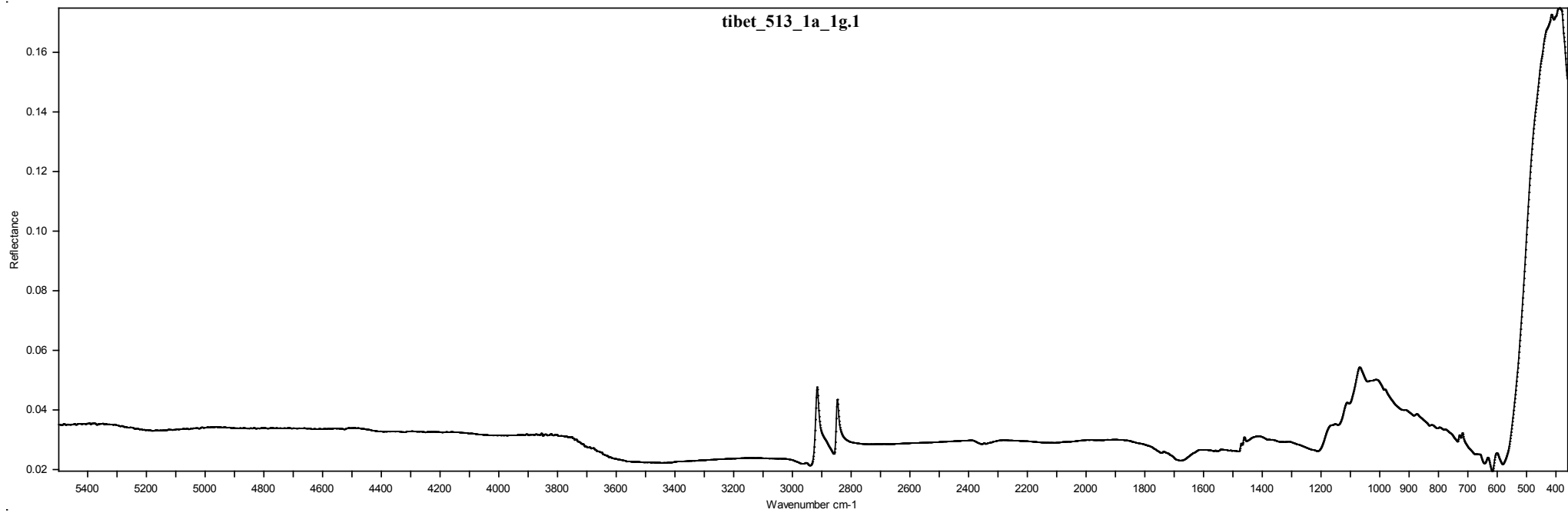
tibet_513_1a_1e.1



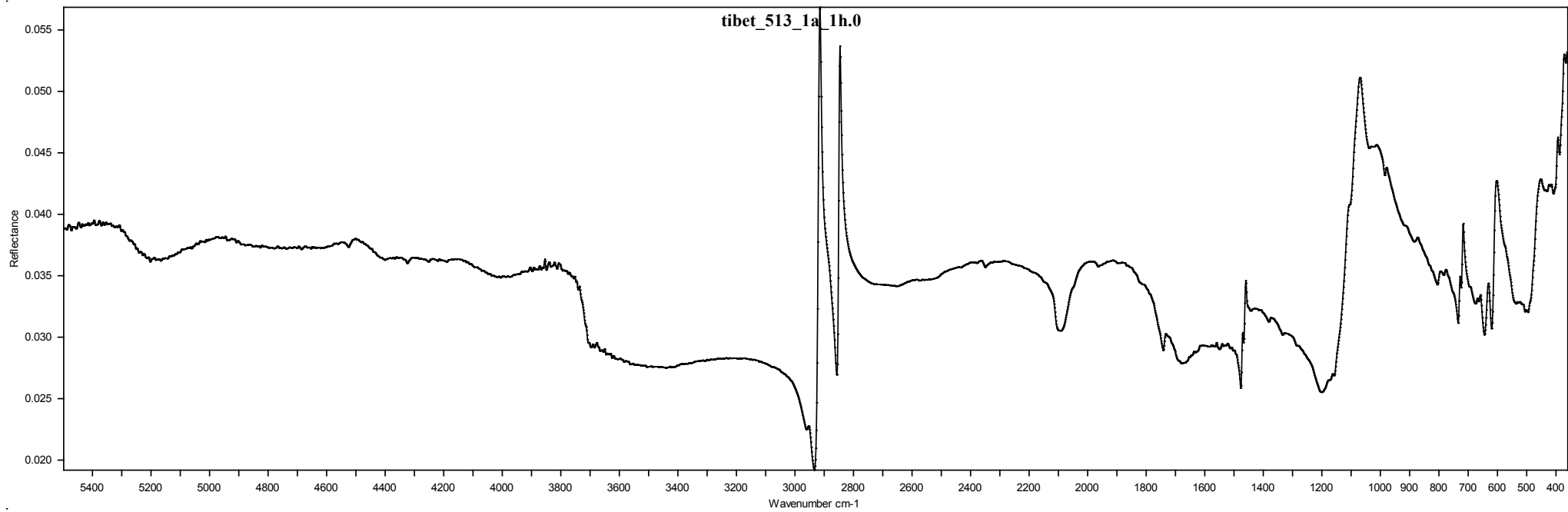
tibet_513_1a_1f.0

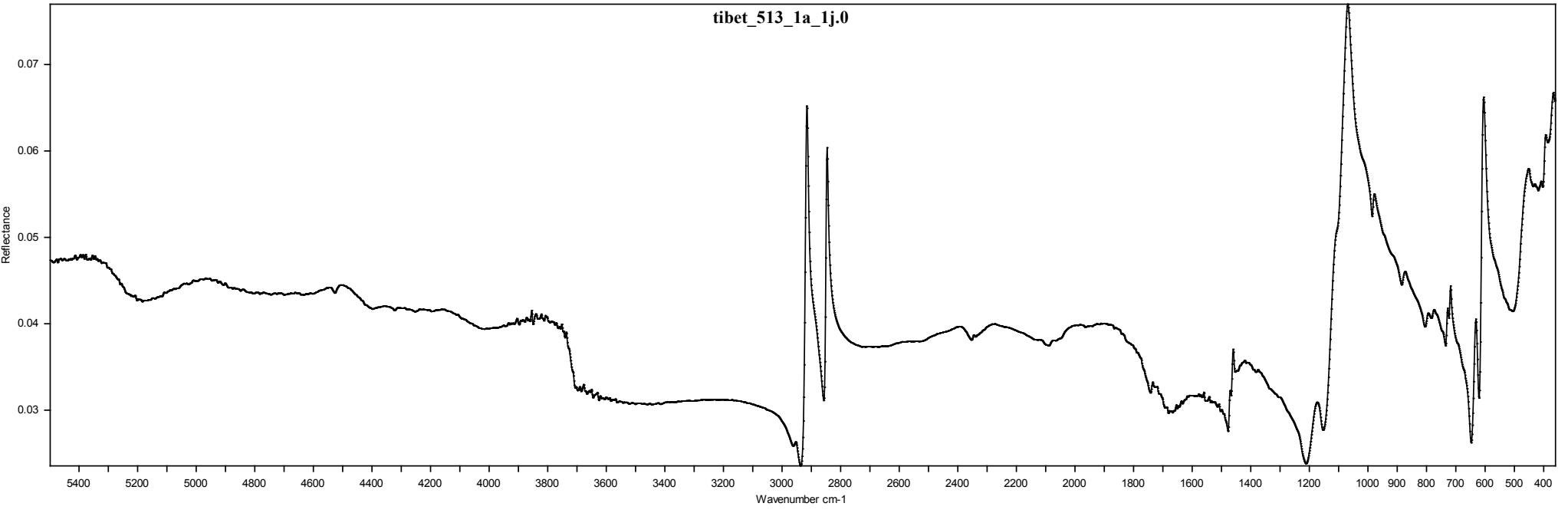
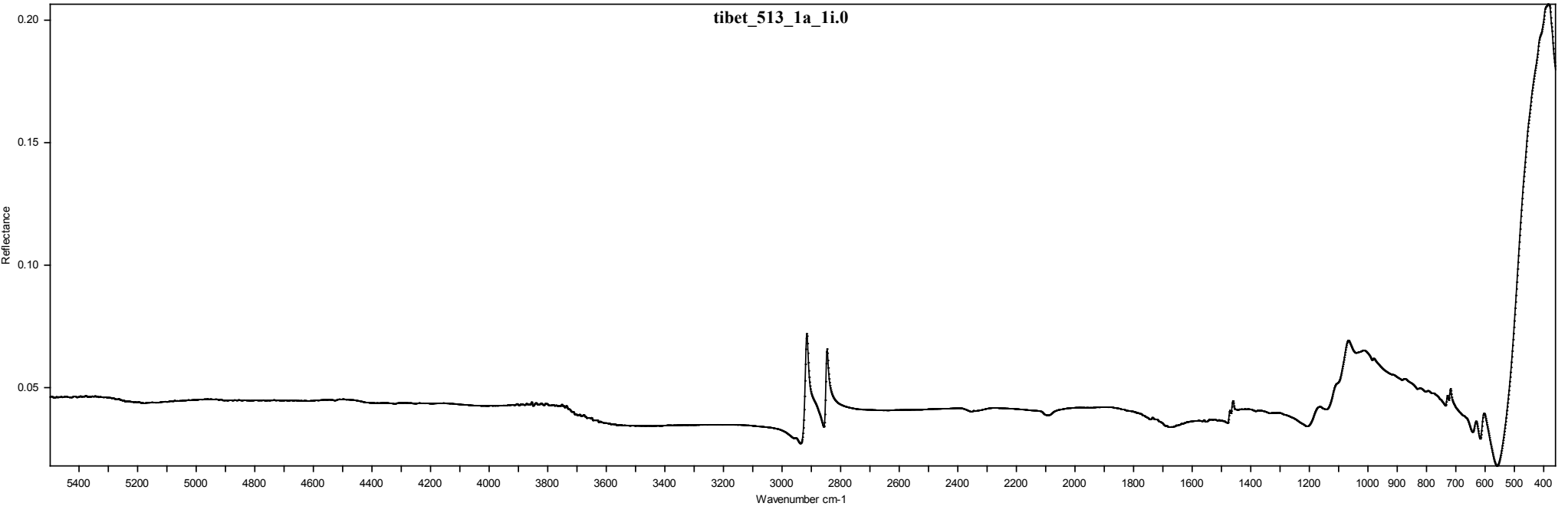


tibet_513_1a_1g.1

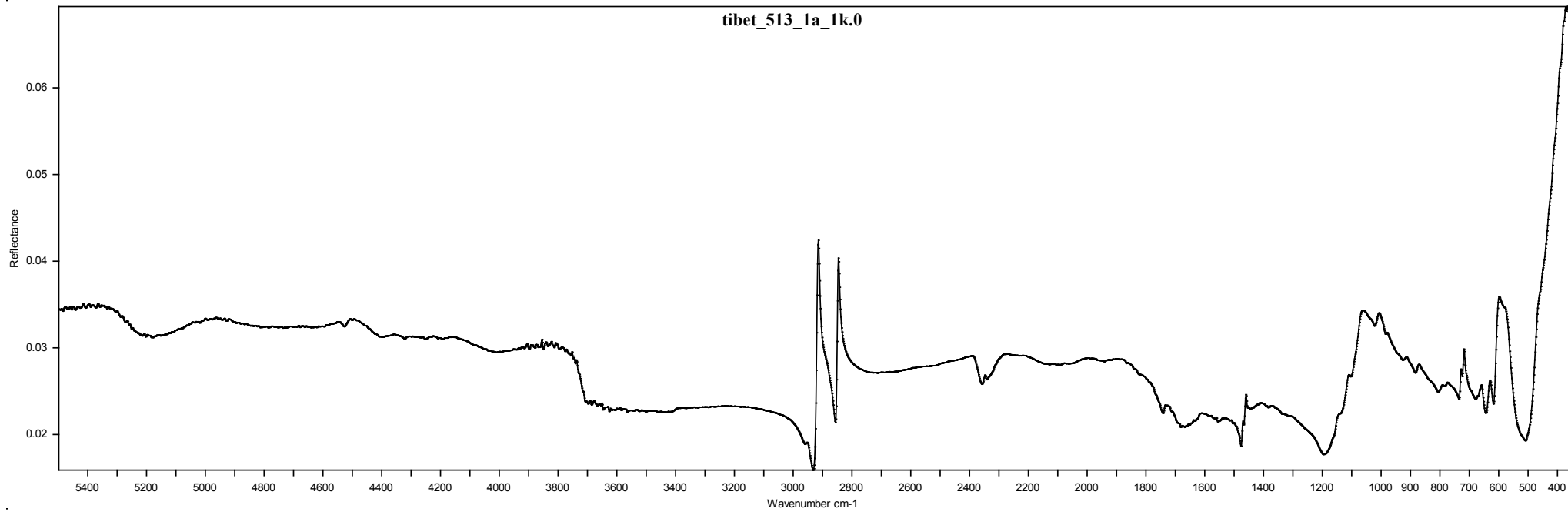


tibet_513_1a_1h.0

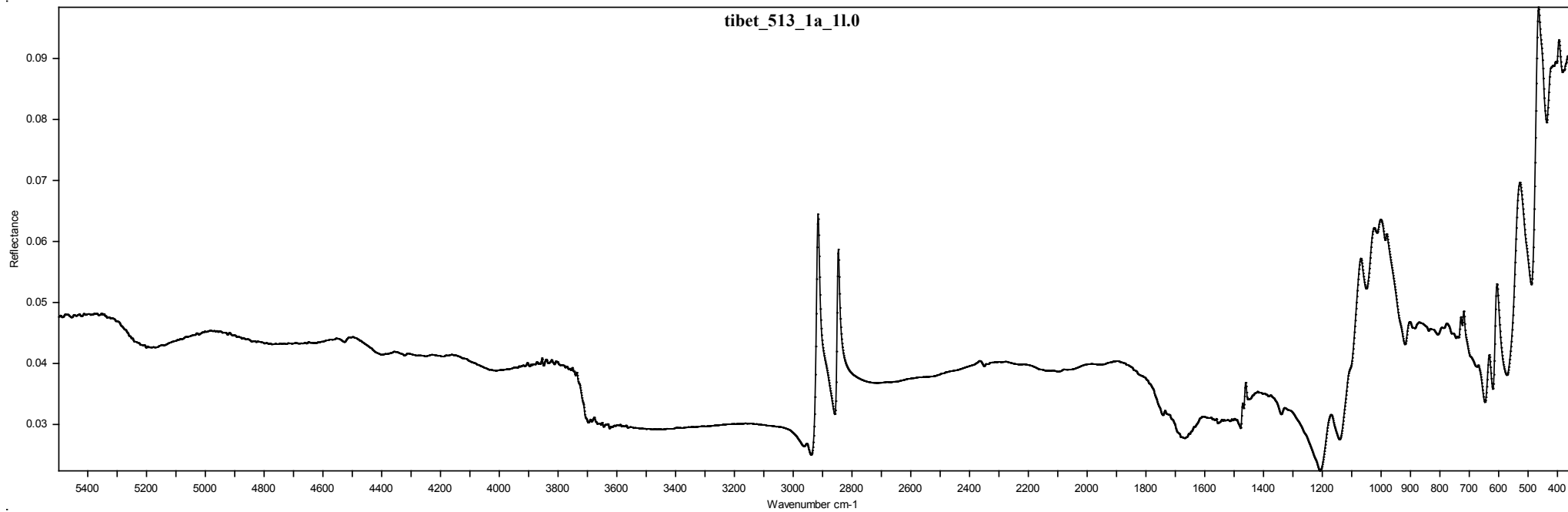




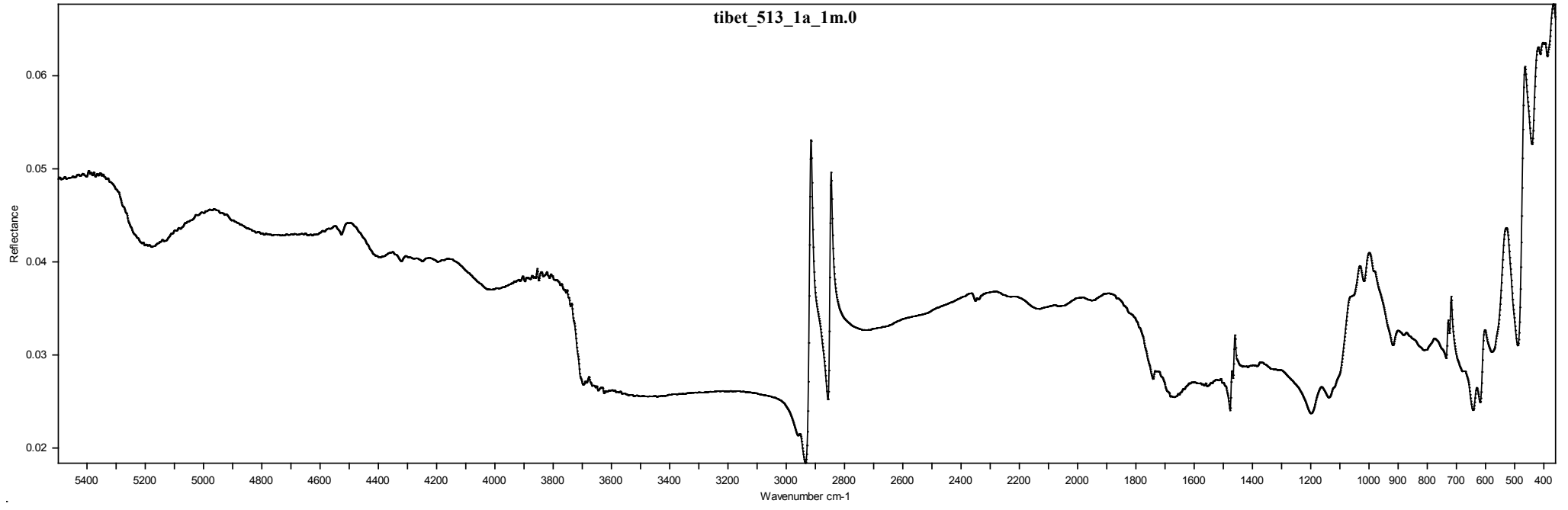
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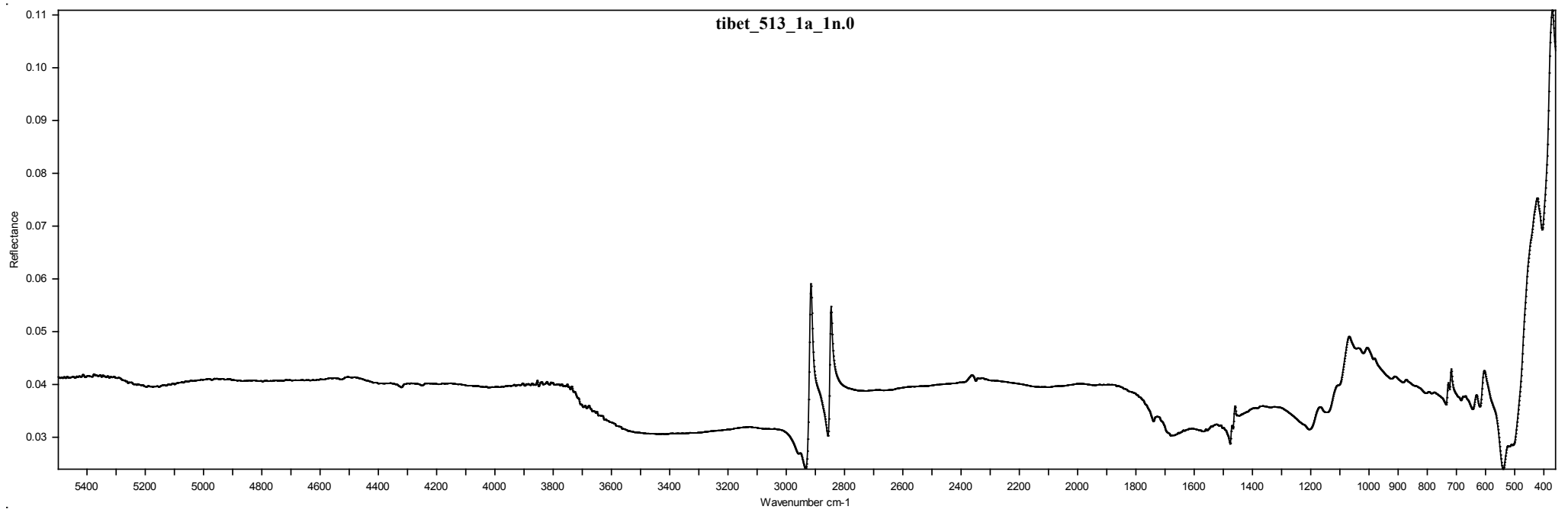
tibet_513_1a_1l.0



tibet_513_1a_1m.0



tibet_513_1a_1n.0



tibet_513_1a_1o.0

