



*Supplement of*

## **Crack-enhanced weathering in inscribed marble: a possible application in epigraphy**

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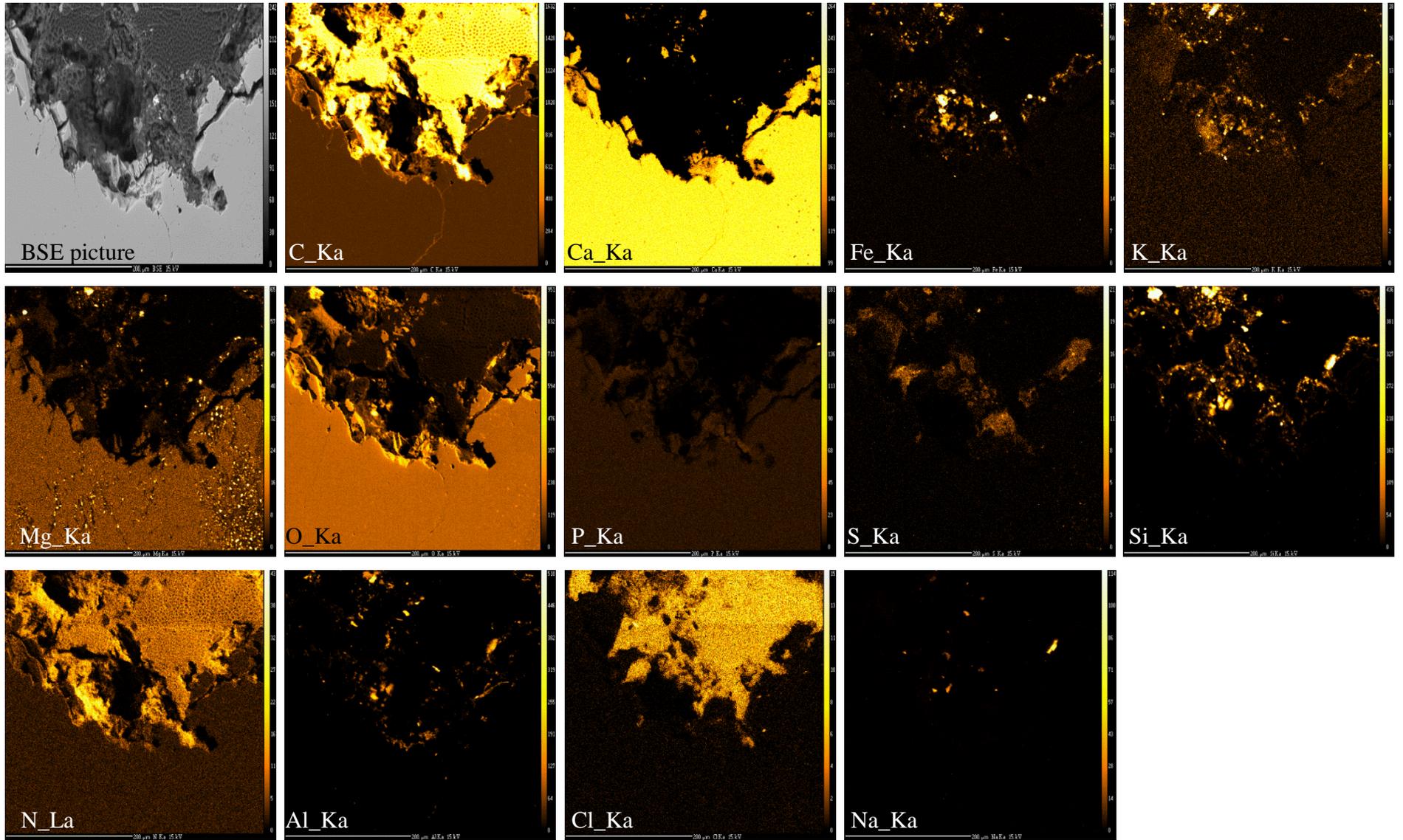


Figure S1: Backscattered electron (BSE) image and element maps of a polished cross-section of sample MaD1B (Hamburg) beneath an engraved letter.

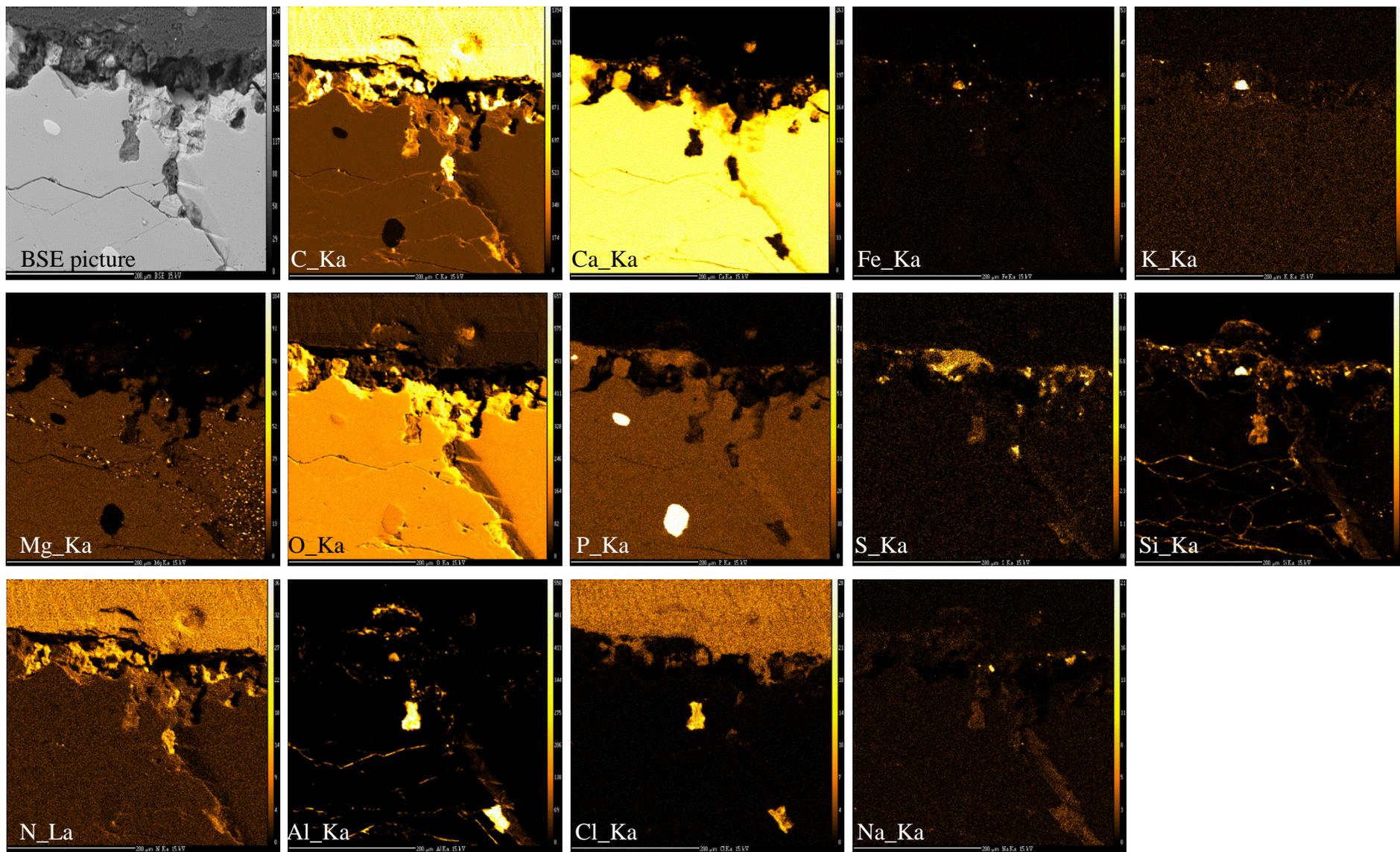


Figure S2: Backscattered electron (BSE) image and element maps of a polished cross-section of sample MaD1B (Hamburg) beneath a non-inscribed area.

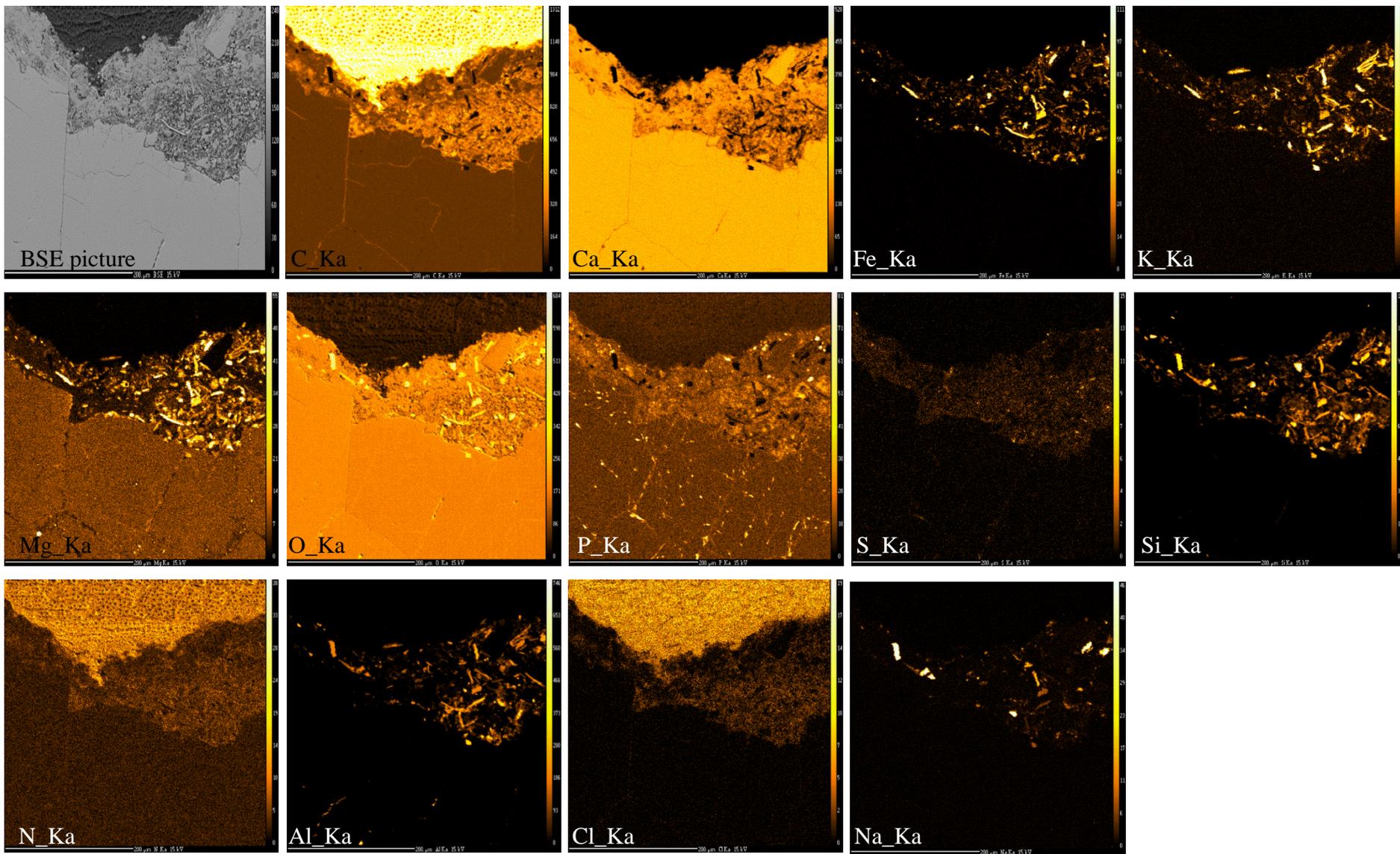


Figure S3: Backscattered electron (BSE) image and element maps of a polished cross-section of sample AM\_C1 (Asia Minor) beneath an inscription.

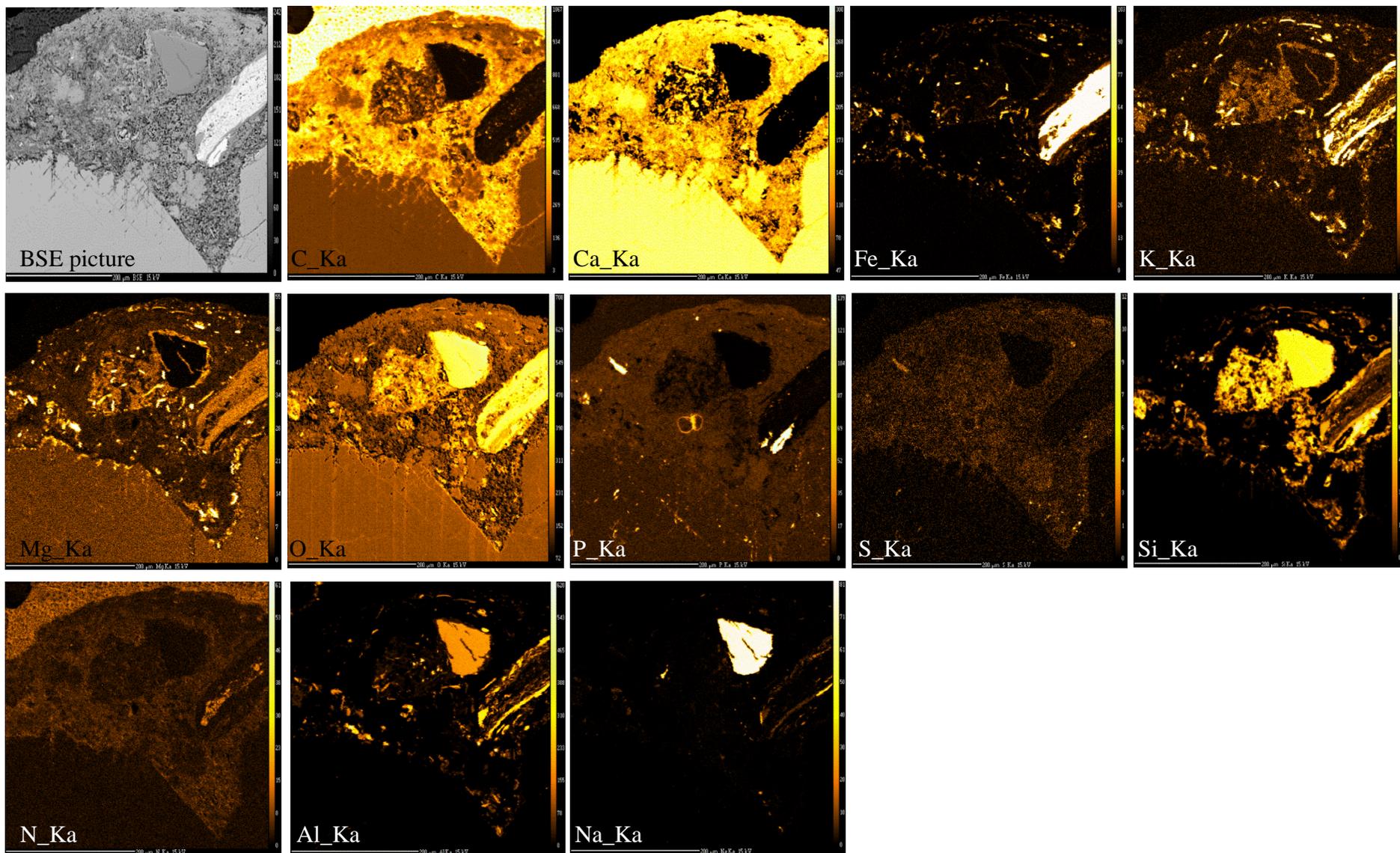


Figure S4: Backscattered electron (BSE) image and element maps of a polished cross-section of sample AM\_C1 (Asia Minor) away from an inscription.

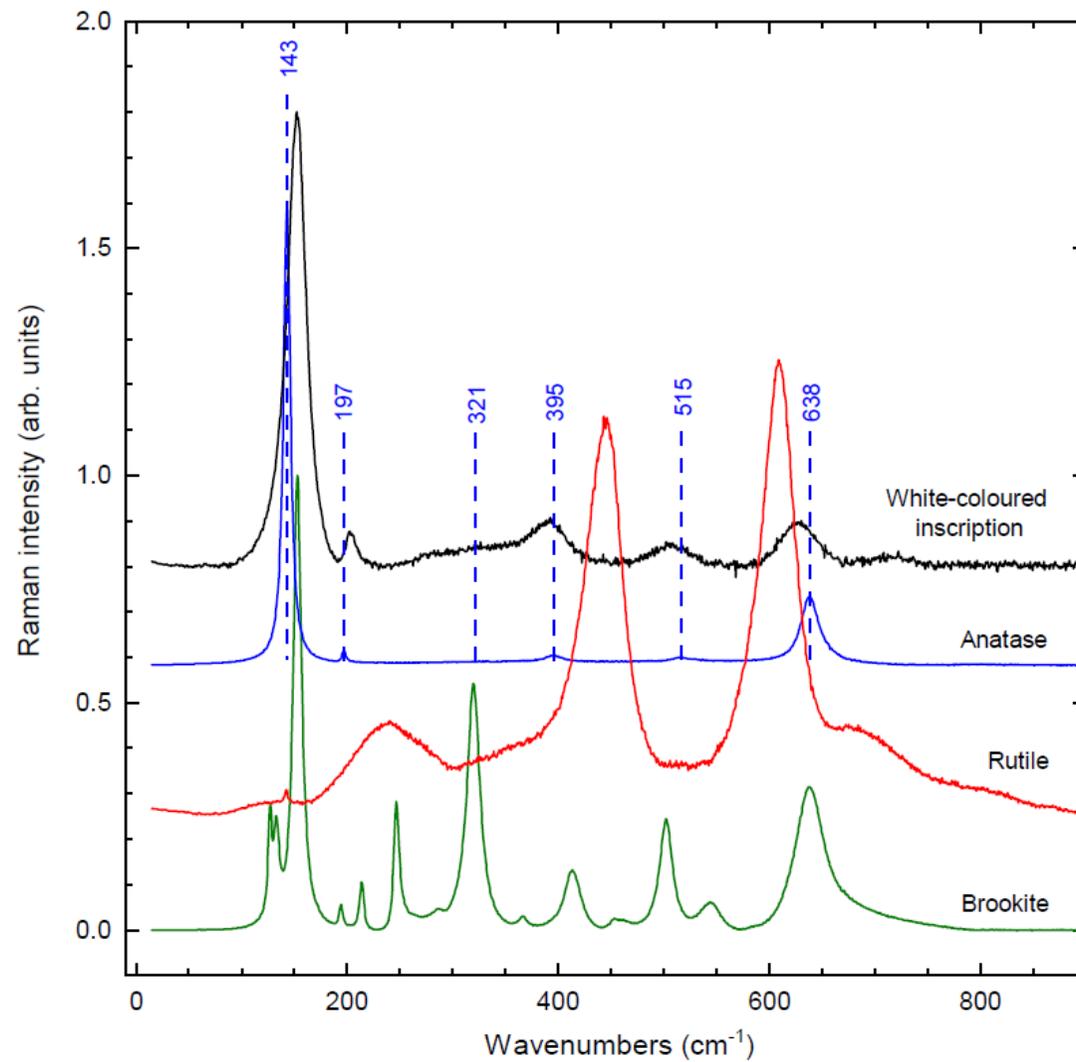


Figure S5: Raman spectra of the three TiO<sub>2</sub> polymorphs: anatase, rutile and brookite, along with the Raman spectrum of the superficial layer of the white-coloured engraved letter on coarse-grained gravestones from Ohlsdorf. For clarity, the spectra were normalized to the height of the strongest peak and vertically offset. The blue dashed lines represent the six characteristic Raman peaks of well-crystallized anatase.