Non-destructief onderzoek naar archeologisch glas

Guus Verhaar, Lambert van Eijck, Yueer Li, René van Beek, Dominique Ngan-Tillard, Roger Groves, Uta Pottgieser, Luc Megens, Norman Tennent, Onno de Noord, Corinna de Regt

g.verhaar@tudelft.nl

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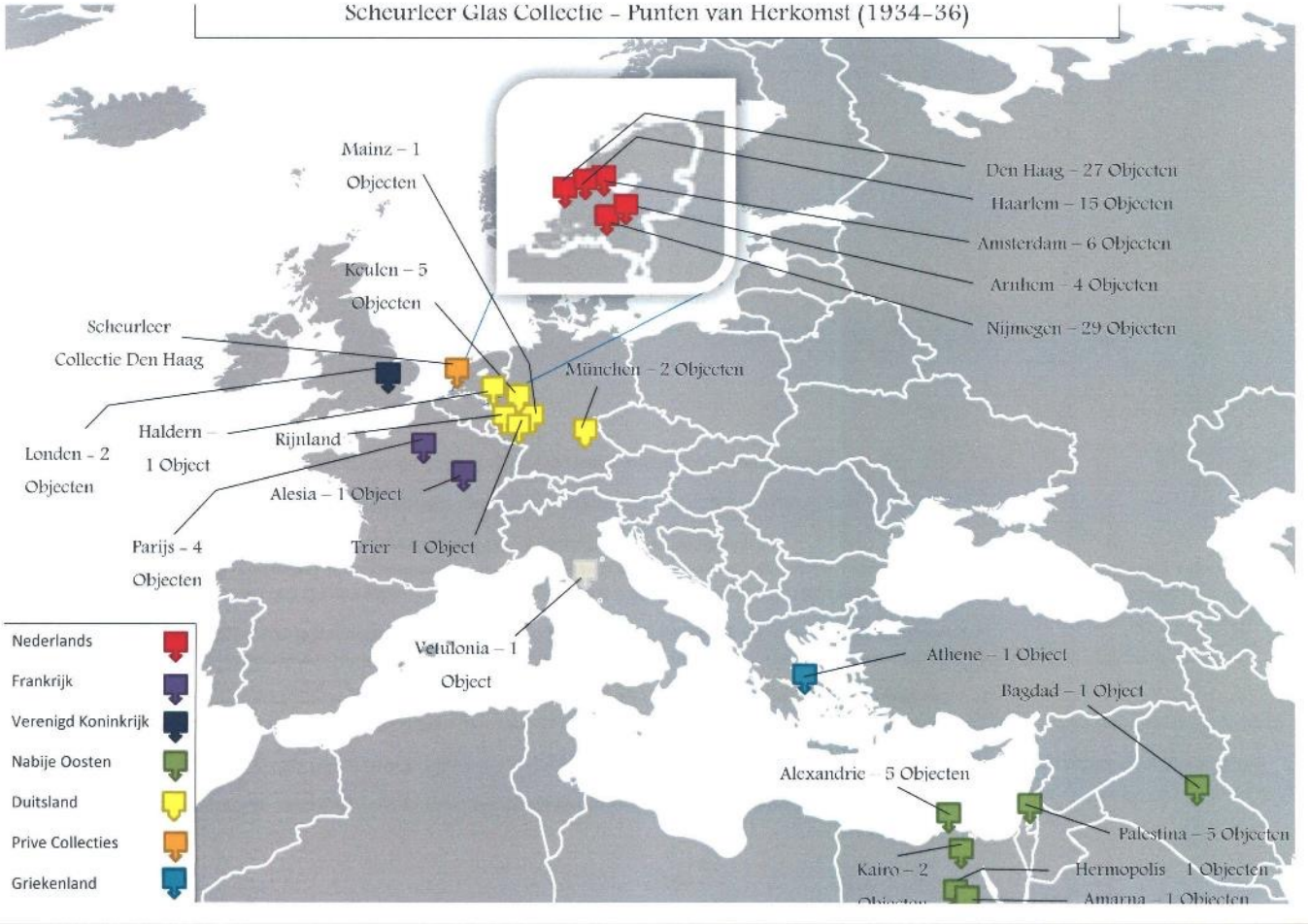
E-RIHS
EUROPEAN RESEARCH INFRASTRUCTURE FOR HERITAGE SCIENCE

Context


Scheurleer Glas Collectie - Punten van Herkomst (1934-36)
Mainz – 1 Objecten
Keulen – 5 Objecten
Scheurleer Collectie Den Haag
Londen - 2 Objecten
Haldern – 1 Object
Rijnland
Alesia – 1 Object
Parijs - 4 Objecten
Trier – 1 Object
Vetulonia – 1 Object
München – 2 Objecten
Den Haag – 27 Objecten
Haarlem – 15 Objecten
Amsterdam – 6 Objecten
Arnhem – 4 Objecten
Nijmegen – 29 Objecten
Athene – 1 Object
Bagdad – 1 Object
Alexandrie – 5 Objecten
Palestina – 3 Objecten
Kairo – 2
Hermopolis – 1 Objecten
Amarna – 1 Objecten
Nederlands
Frankrijk
Verenigd Koninkrijk
Nabije Oosten
Duitsland
Prive Collecties
Griekenland

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XRF: element analysis using x-rays

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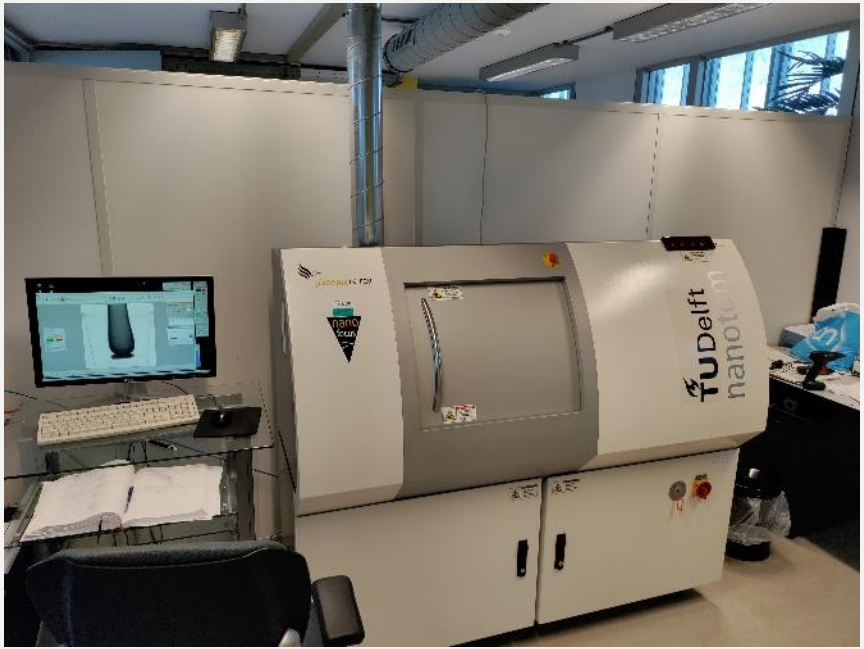
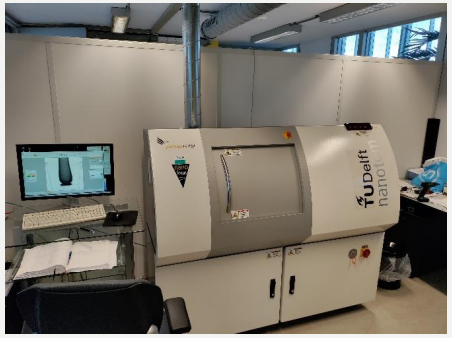
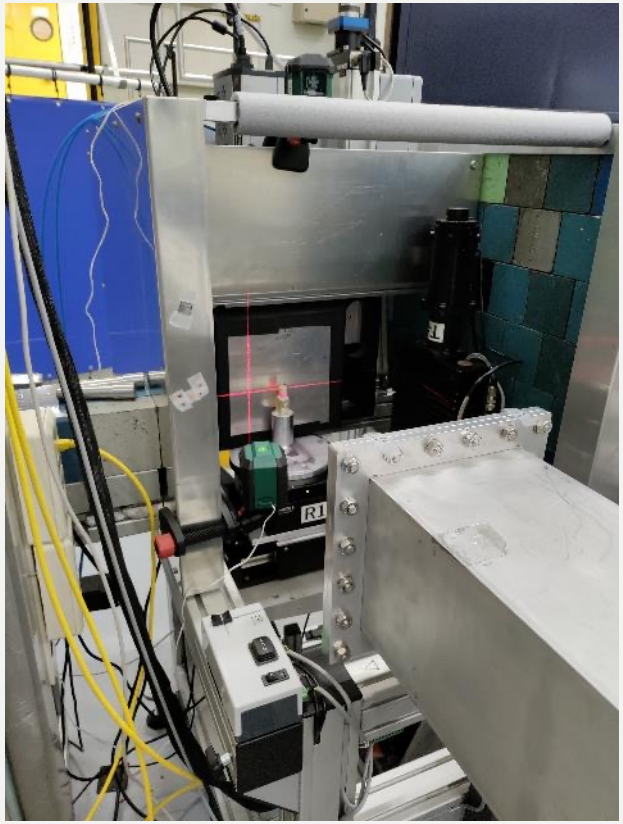
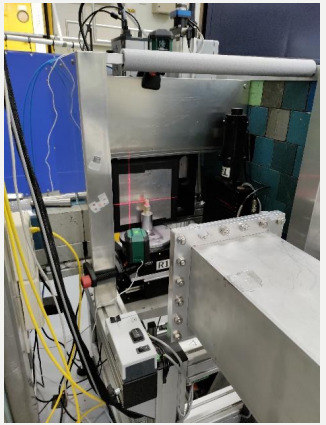


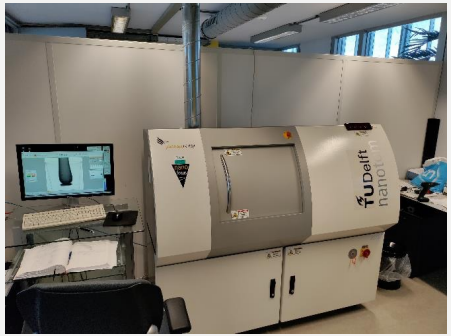
µ-CT scanning: imaging using x-rays





Neutron tomography: imaging using neutrons





Gamma-spectroscopy: element analysis using neutron induced radioactivity

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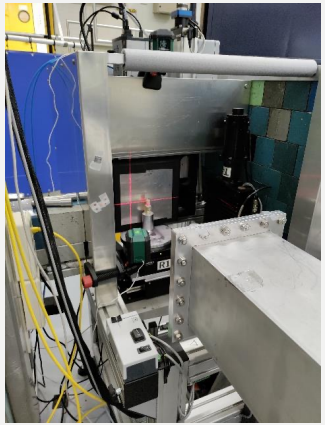
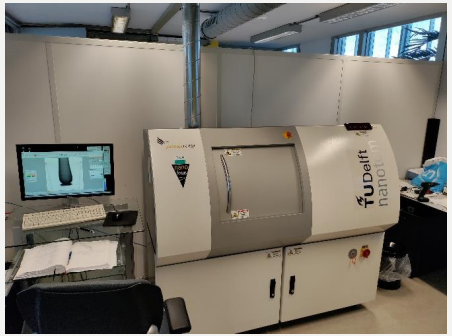

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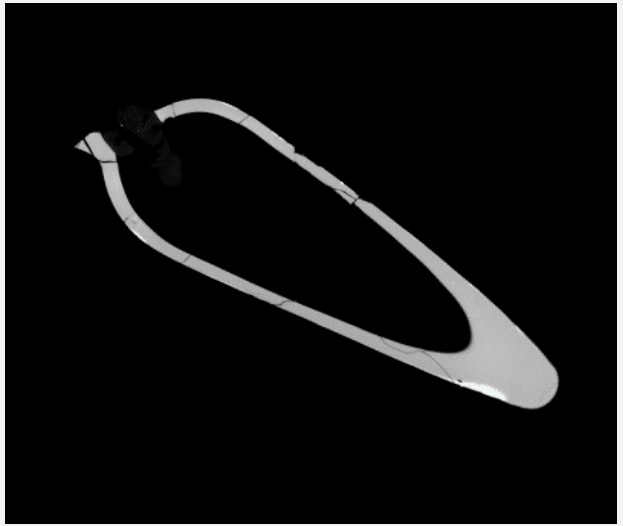

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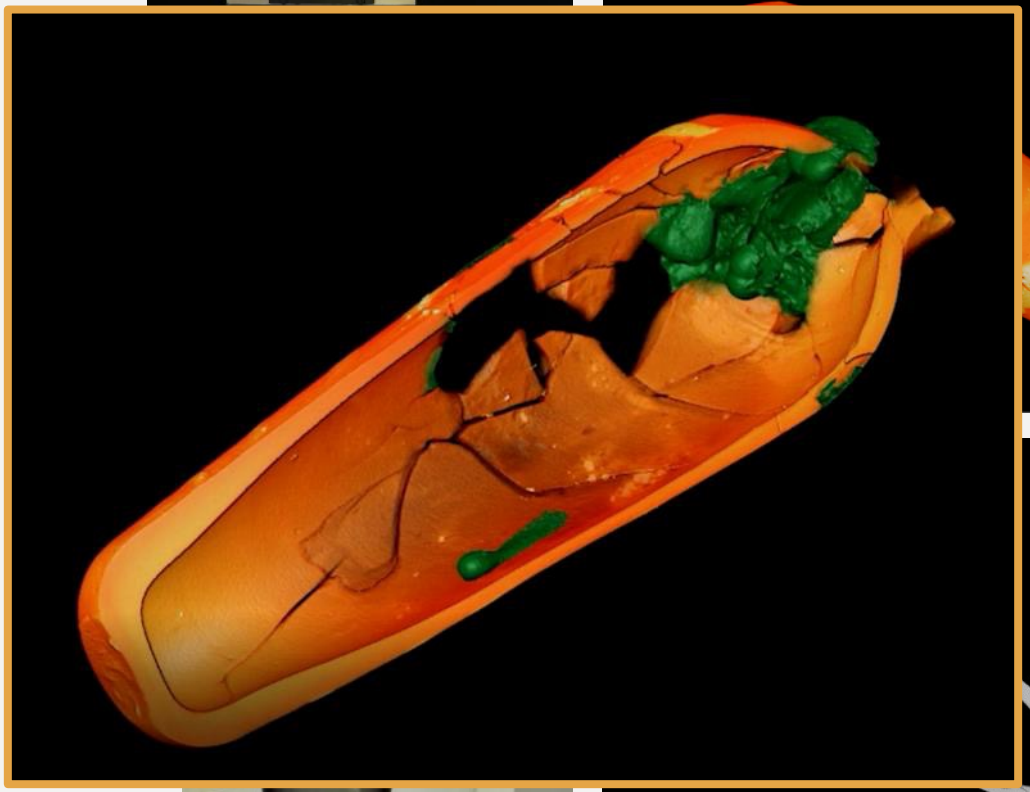

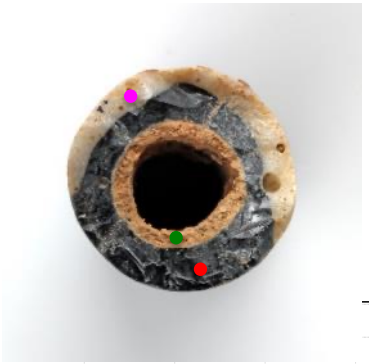

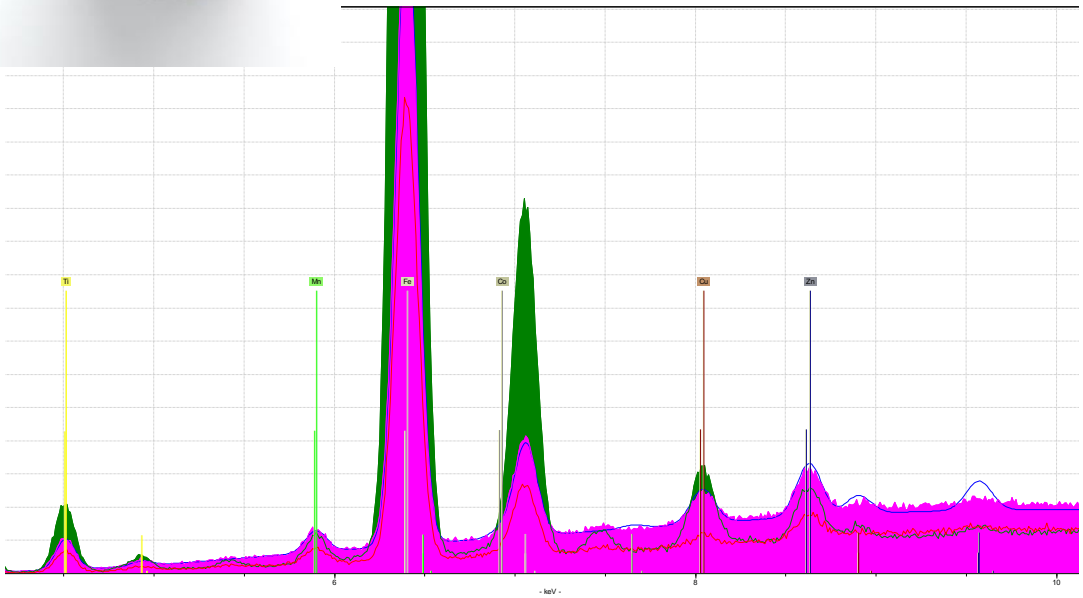

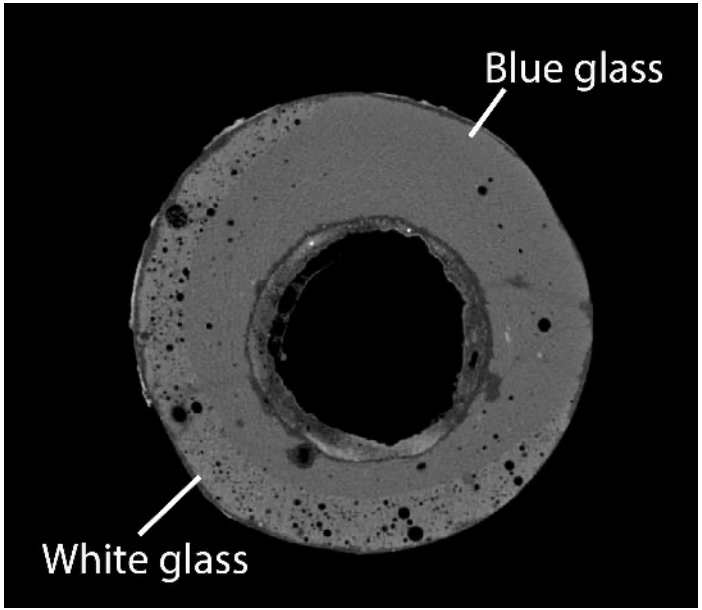

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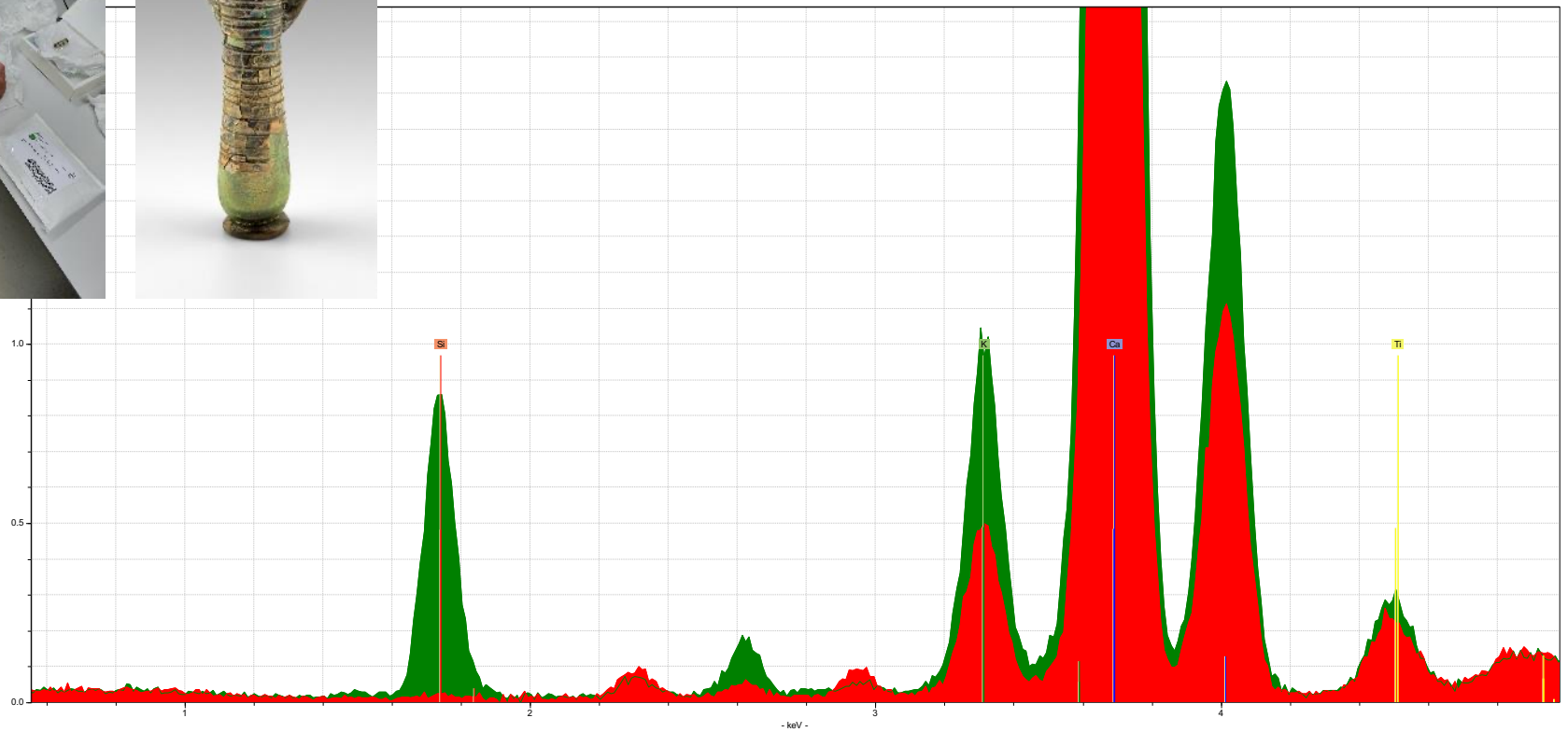

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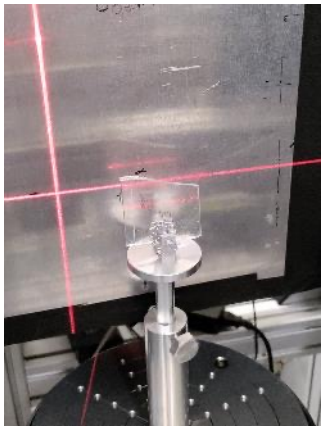
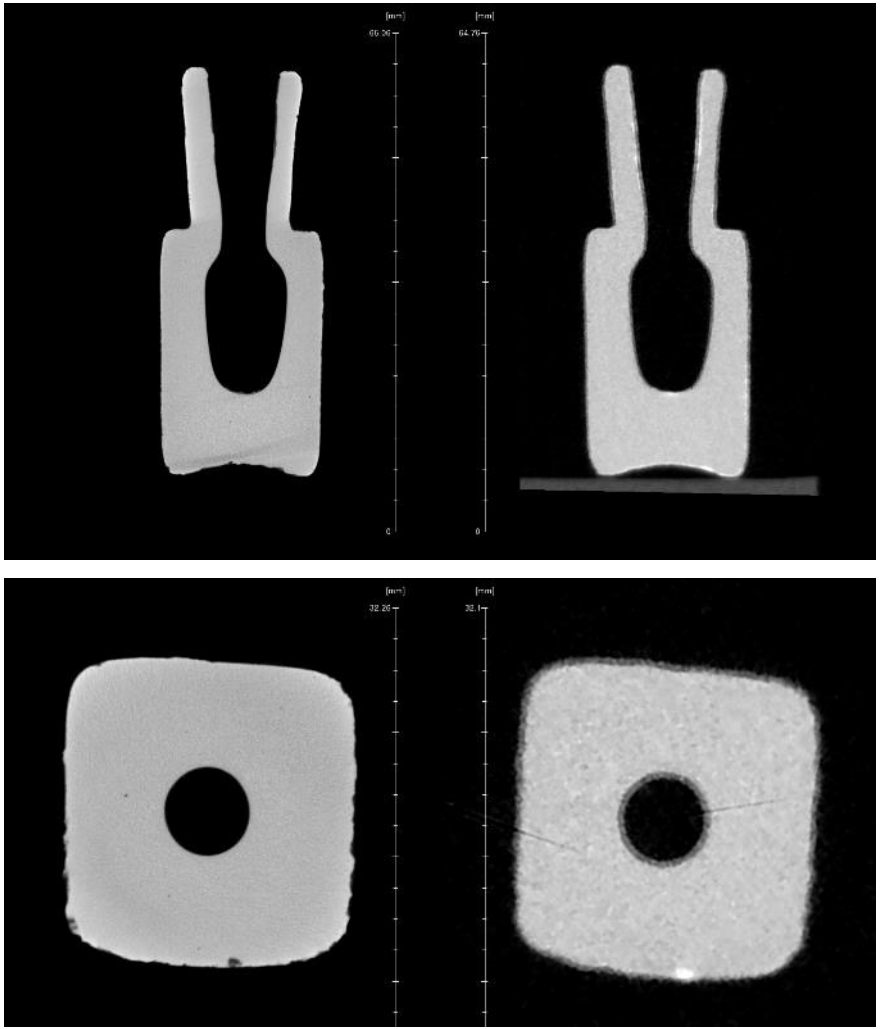
Vooruitzichten

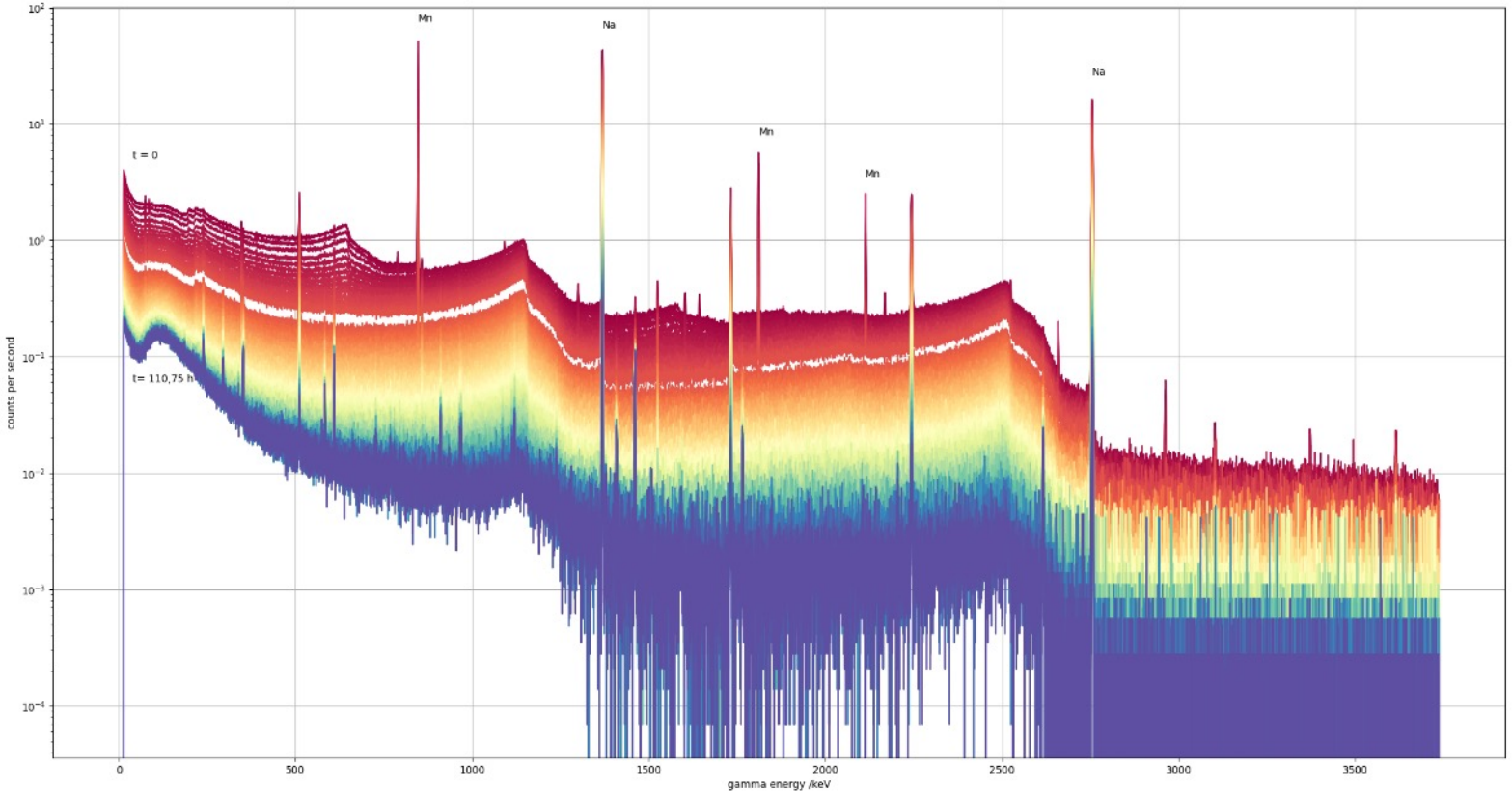
- Consistentie XRF metingen
- Neutronen tomografie & gamma spectroscopie
- Koppeling gebouwd erfgoed (vlak glas)
- Vergelijking röntgen – neutronen
- Toepassing OCT



Röntgen CT



Neutronen CT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Mn
Mn
Na
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counts per second
gamma energy /keV
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1000
1500
2000
2500
3000
3500

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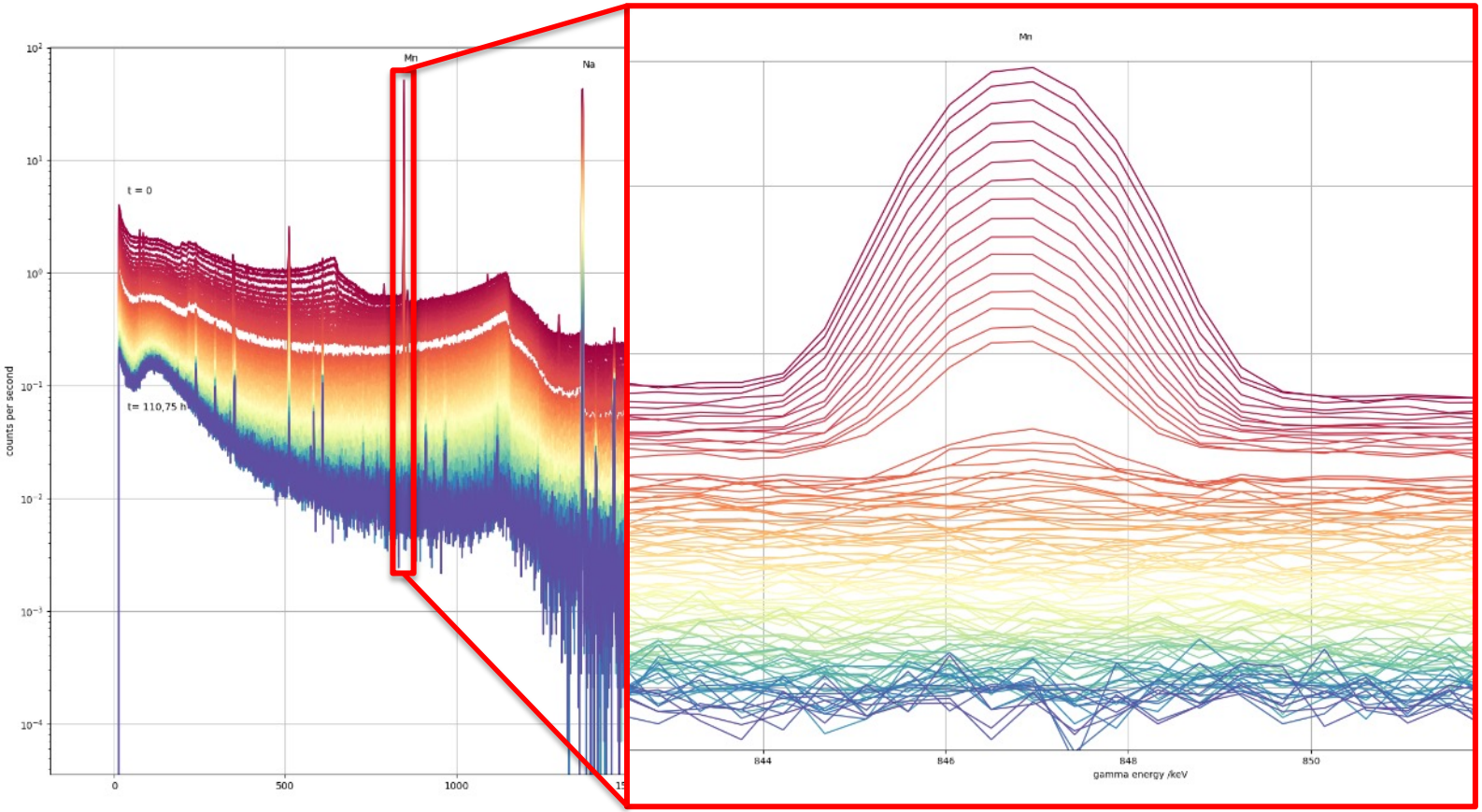
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t= 110,75 h
counts per second
0
500
1000
Mn
844
846
848
850
gamma energy /keV

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