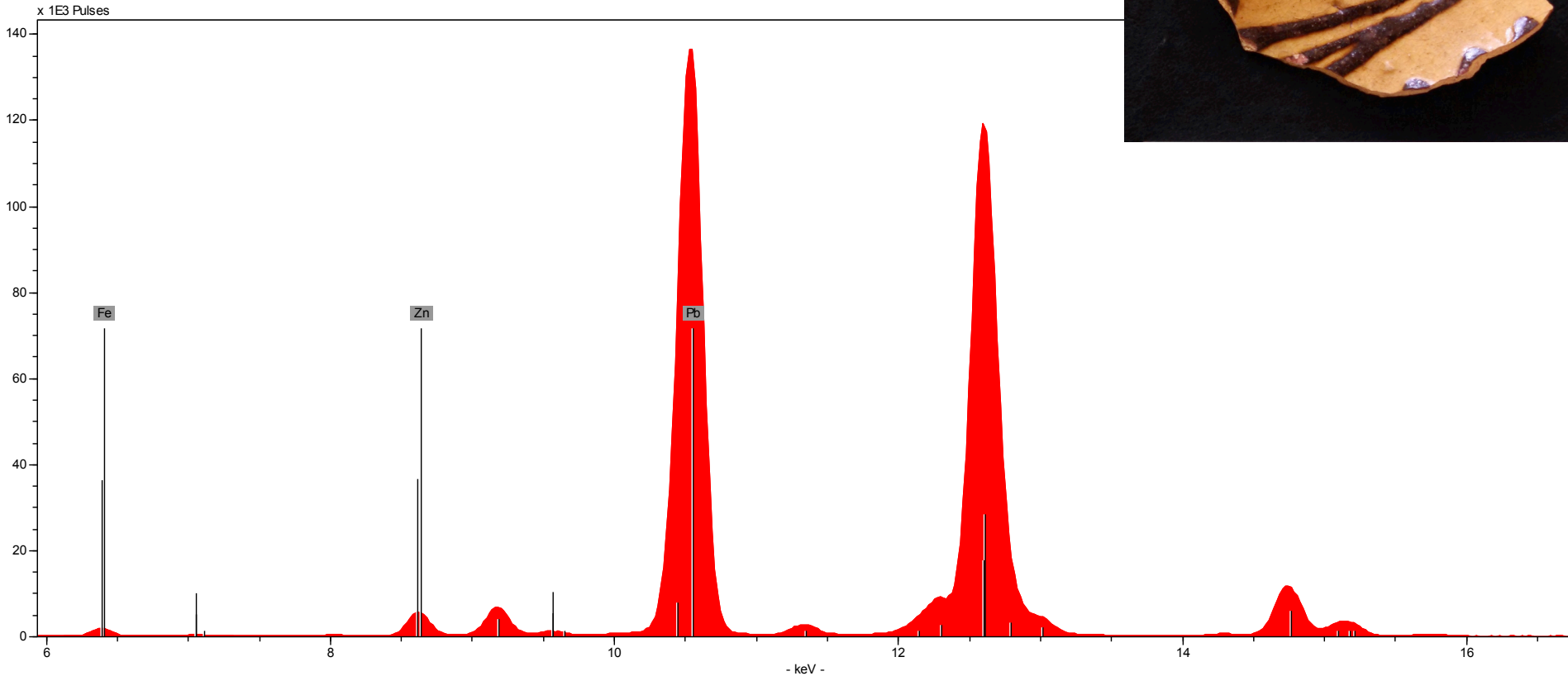


# Lead glaze

Staffordshire, England, 18<sup>th</sup> C.



Instrument Settings: 40 kV, 11 micro amps, no vacuum, yellow filter.

Runtime: 60 seconds

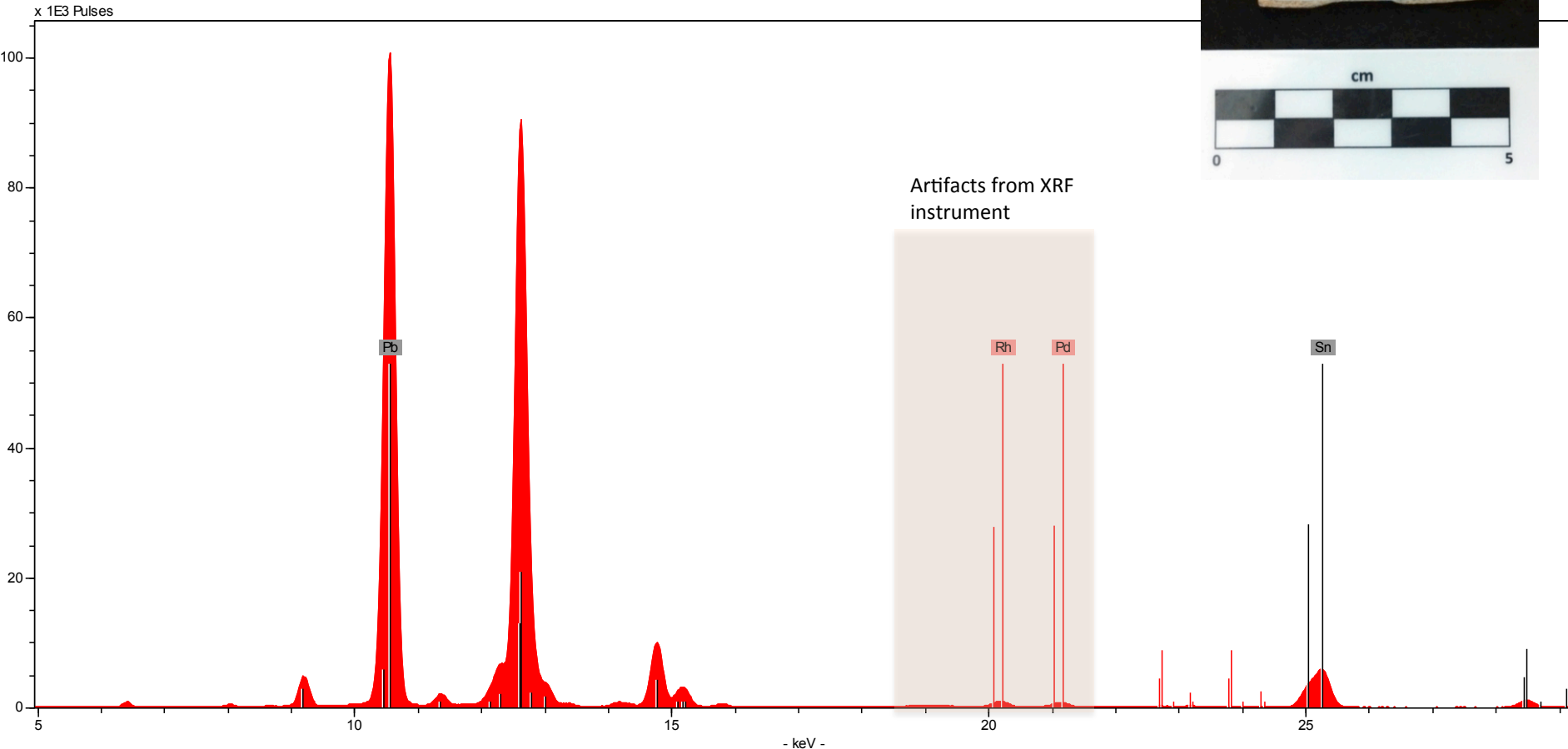
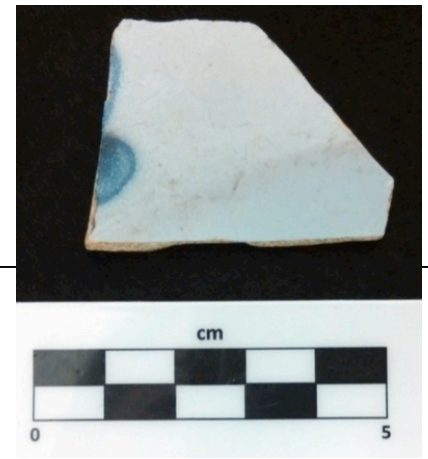
These settings focus on the energy range for metals, the principal colorants for paints and glazes.

## Results:

Glaze is predominantly lead (Pb), with some iron (Fe) and zinc (Zn).

# Tin glaze

## Delft



Instrument Settings: 40 kV, 11 micro amps, no vacuum, yellow filter.  
Runtime: 60 seconds  
These settings focus on the energy range for metals, the principal colorants for paints and glazes.

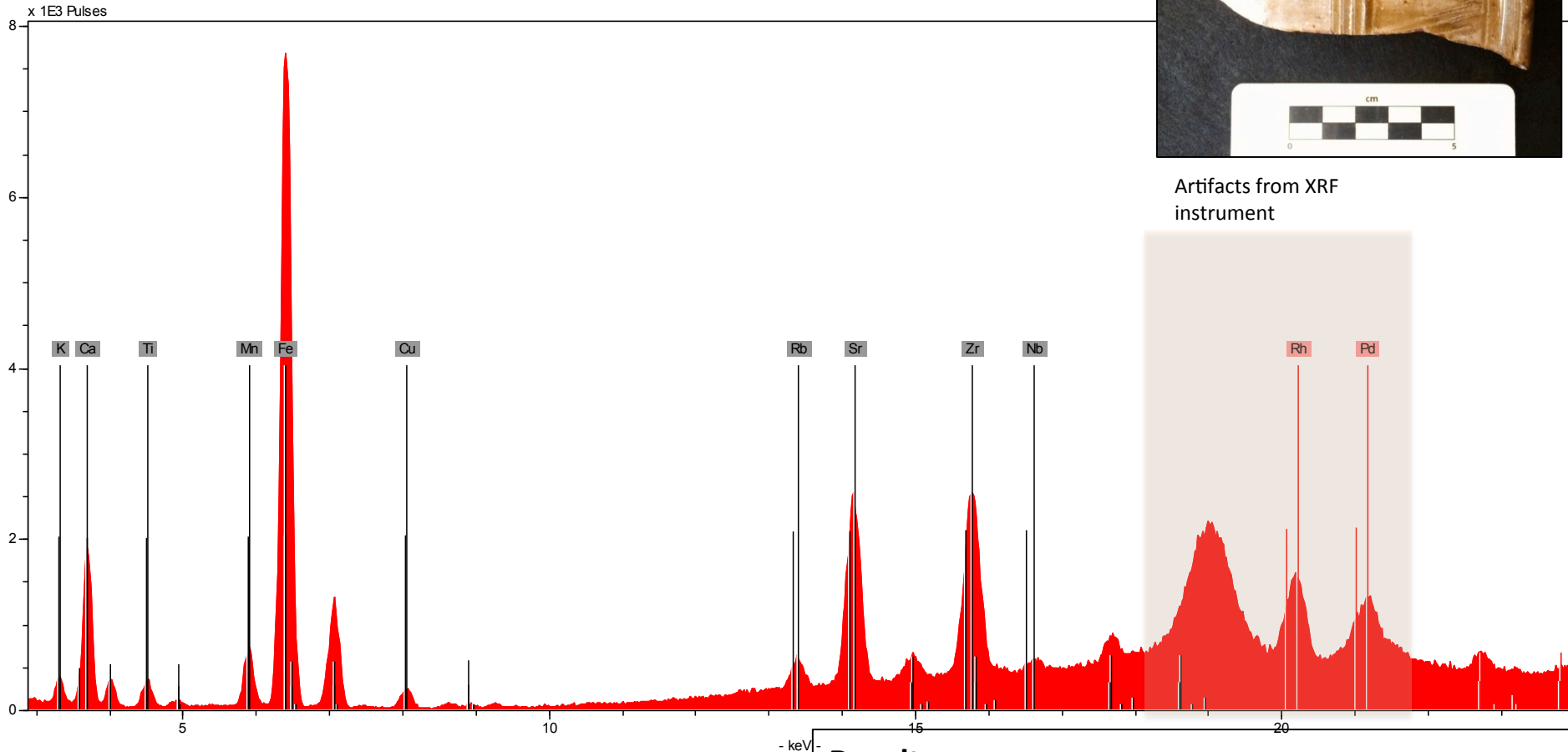
**Results:**  
Glaze is composed of lead (Pb) and tin (Sn).  
Additional ingredients may be masked by the lead.

# Alkaline glaze

## Hewitt Pottery



Artifacts from XRF instrument



Instrument Settings: 40 kV, 11 micro amps, no vacuum, yellow filter.

Runtime: 60 seconds

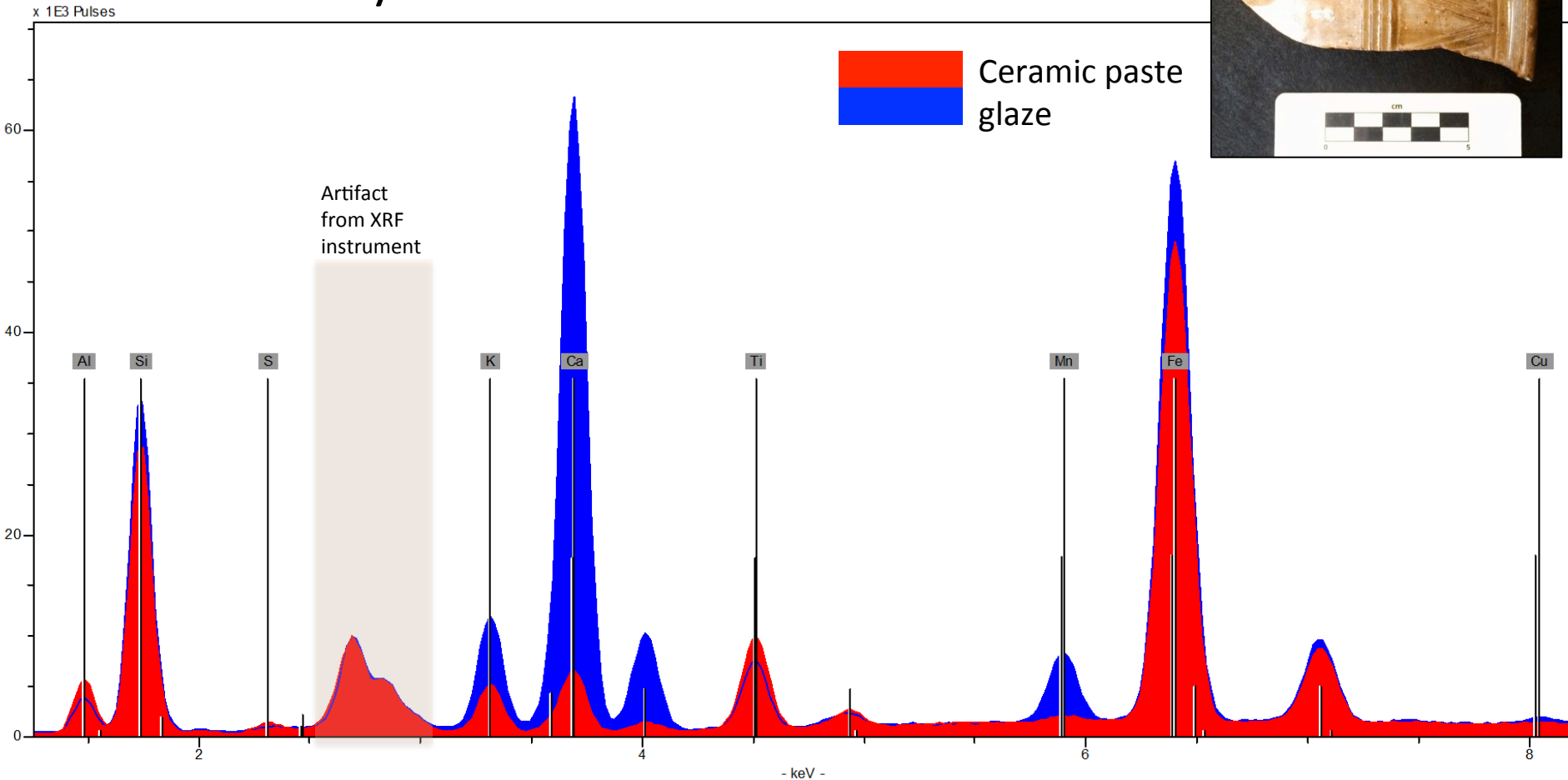
These settings focus on the energy range for metals, the principal colorants for paints and glazes.

### Results:

Presence of potassium (K) and calcium (Ca) as evidence for alkaline glaze. High manganese (Mn), iron (Fe) and copper (Cu) contribute to the celadon color. Glaze is likely feldspathic.

# Alkaline glaze

## Hewitt Pottery



Instrument Settings: 15 kV, 45 micro amps, vacuum, no filter.

Runtime: 60 seconds

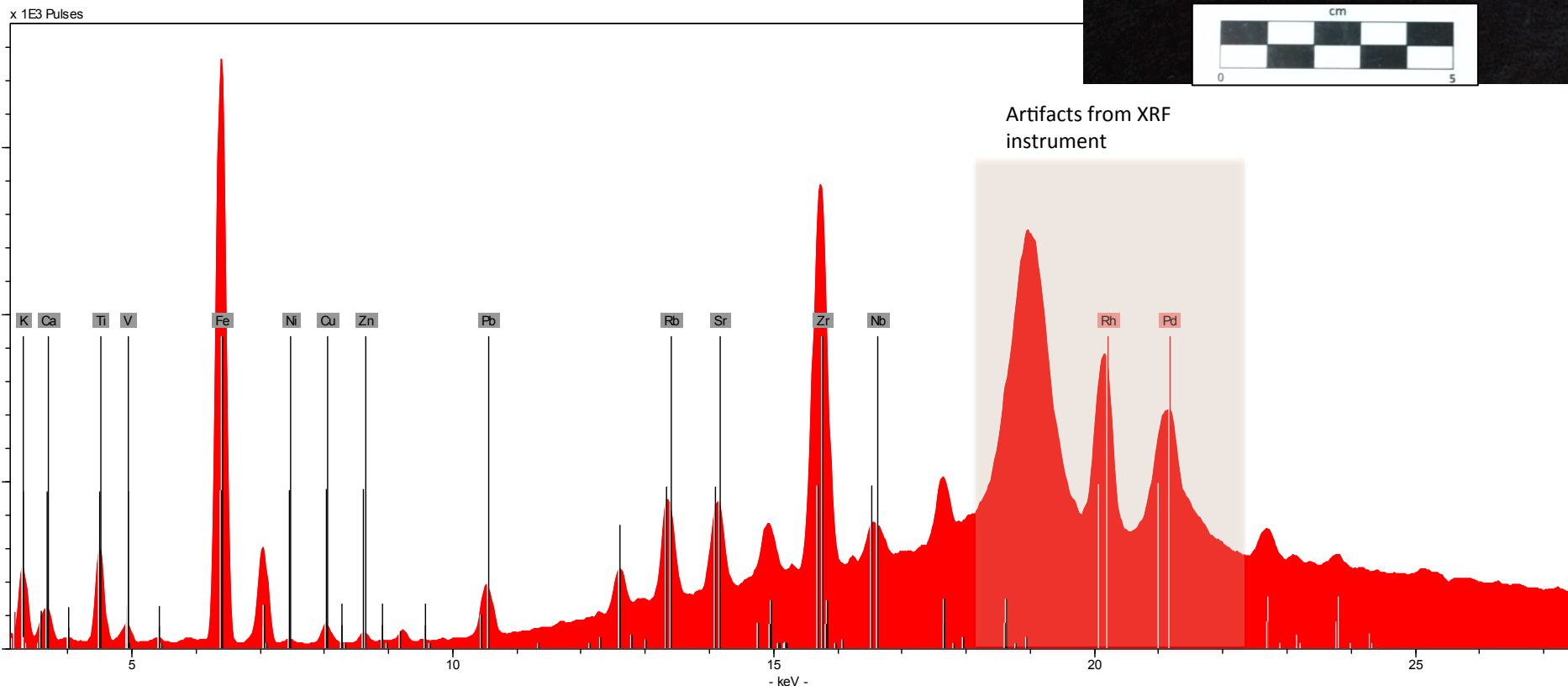
These settings focus on the energy range for light elements.

### Results:

Alkaline glaze is much higher than the underlying clay body in potassium (K) and calcium (Ca), as well as colorants manganese (Mn), iron (Fe) and copper (Cu).

# Salt-glaze

18<sup>th</sup> C. Germany (Westerwald)



Instrument Settings: 40 kV, 11 micro amps, no vacuum, yellow filter.

Runtime: 60 seconds

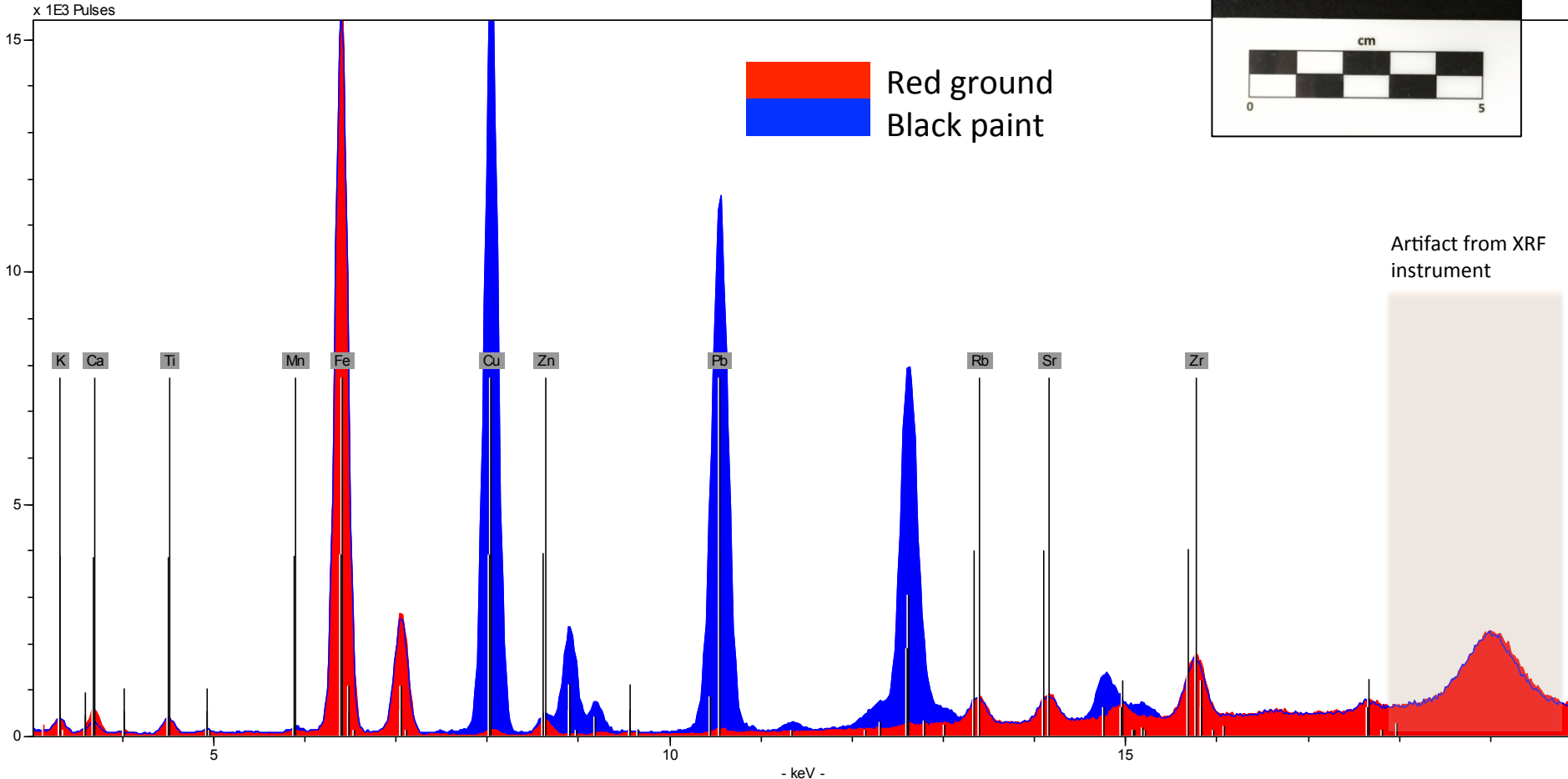
These settings focus on the energy range for metals, the principal colorants for paints and glazes.

## Results:

Sodium (Na) is not able to be detected by the XRF. The elements present represent the underlying ceramic body.

# White Mountain Redware

Zuñi



Instrument Settings: 40 kV, 11 micro amps, no vacuum, yellow filter.

Runtime: 60 seconds

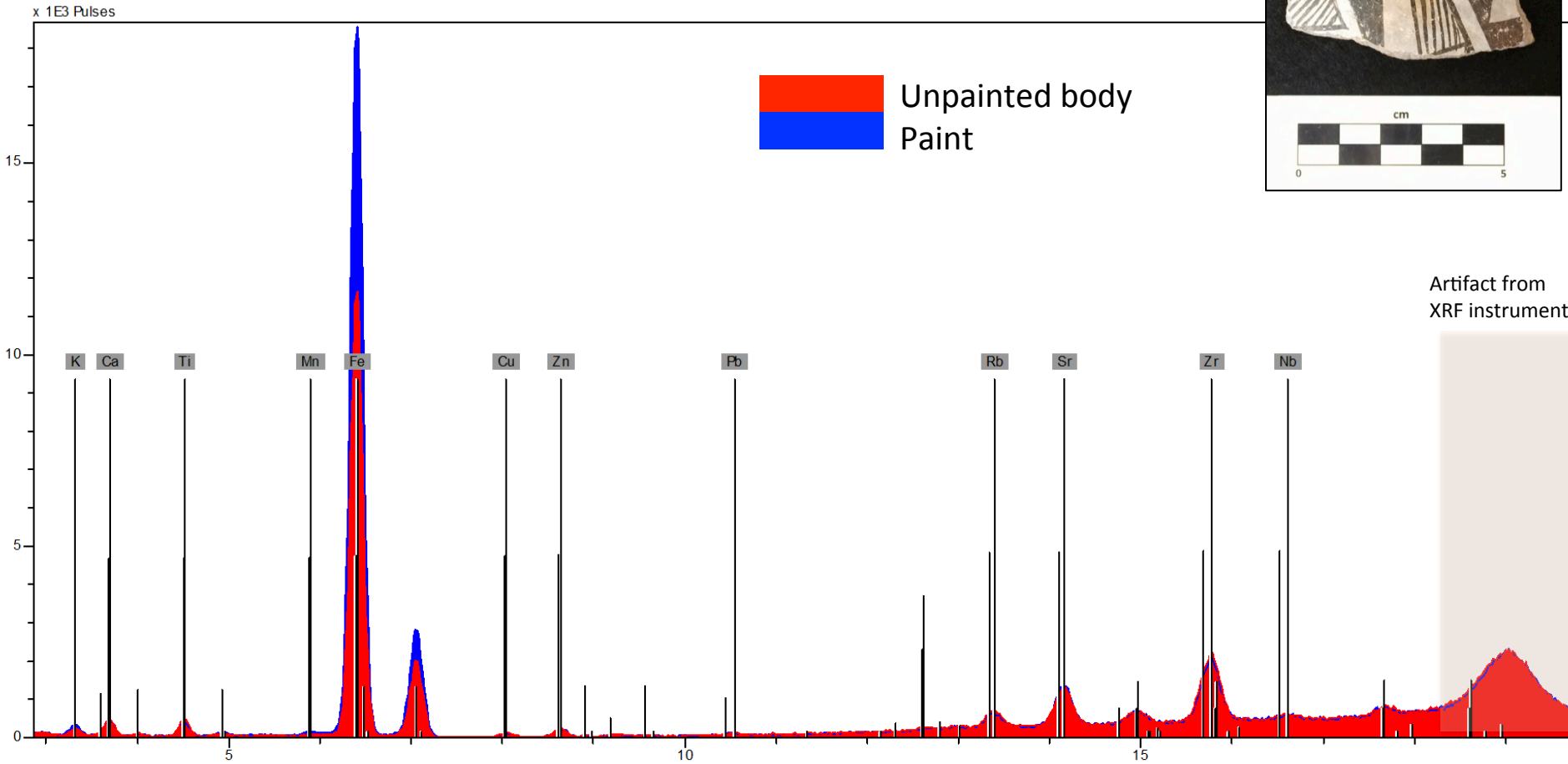
These settings focus on the energy range for metals, the principal colorants for paints and glazes.

## Results:

Paint is enriched in copper (Cu) and lead (Pb). The red ground is characteristic of an iron-rich (Fe) clay.

# Cibola Whiteware

## Zuñi



Instrument Settings: 40 kV, 11 micro amps, no vacuum, yellow filter.  
Runtime: 60 seconds  
These settings focus on the energy range for metals, the principal colorants for paints and glazes.

**Results:**  
Paint is enriched in iron (Fe) oxides. White ground also contains iron.