

Object Number	K476	Description	Mount in gold from the tip of a hilt-guard with garnet cloisonné decoration. Catalogue no. 508.
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	Sample Description and location.
	Small sample collected from end of object (see images below).



Figure 1. Sample K476-1 collected from grey/brown coloured material (circle in red).



Figure 2. Detail of K476-1 collection area.

FTIR Analysis

Comments: Spectrum K476-1-5 (top blue) is representative of all spectra collected for this sample, and is a close spectral match for the alumina silicate reference sample (bottom (red)). The spectrum is dominated by an intense peak at approximately 1000cm⁻¹ which corresponds to Si-O bonding in silicates. Silicates are a major constituent of clay minerals. Sample K476-1 is likely clay related to the burial environment.

Representative Spectrum

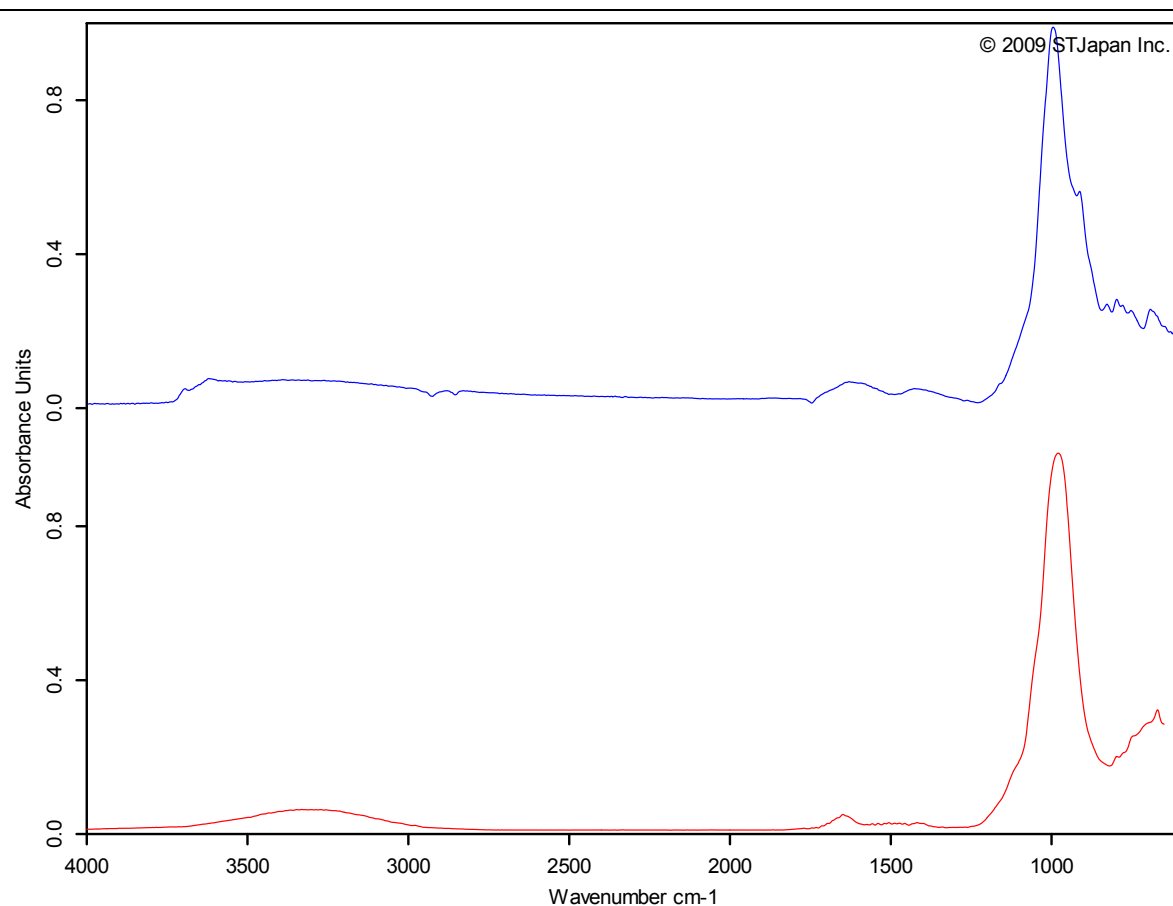


Figure 3: Top (blue) K476-1-5. Bottom (red) Alumino silicate reference spectrum, ST Japan 2009.