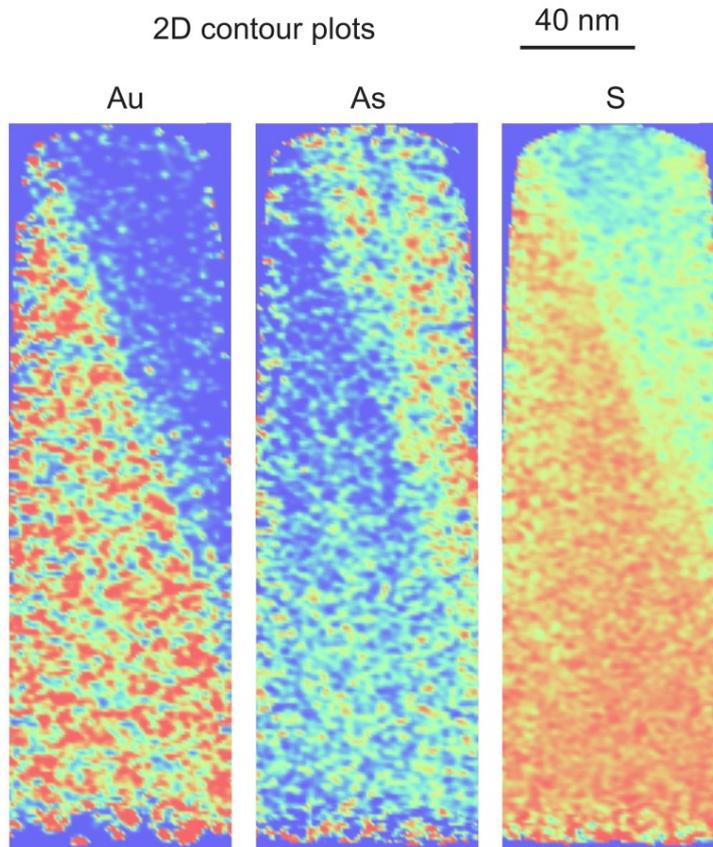


FIG. SP1: Mass to charge ratio spectra for specimen 2. The gold ( $\text{Au}^+$ ) peak is clearly above the background.



**FIG. SP2:** 2D concentration plots of specimen 2 for gold, arsenic and sulfur. 2D contour concentration plots are showing the distribution of selected ions in a plane normal to the x axis of the specimen. The gold-rich domain (2169 ppm) is arsenic-depleted and sulfur-enriched in comparison to the gold-poor domain (213 ppm).