

Fig. S2

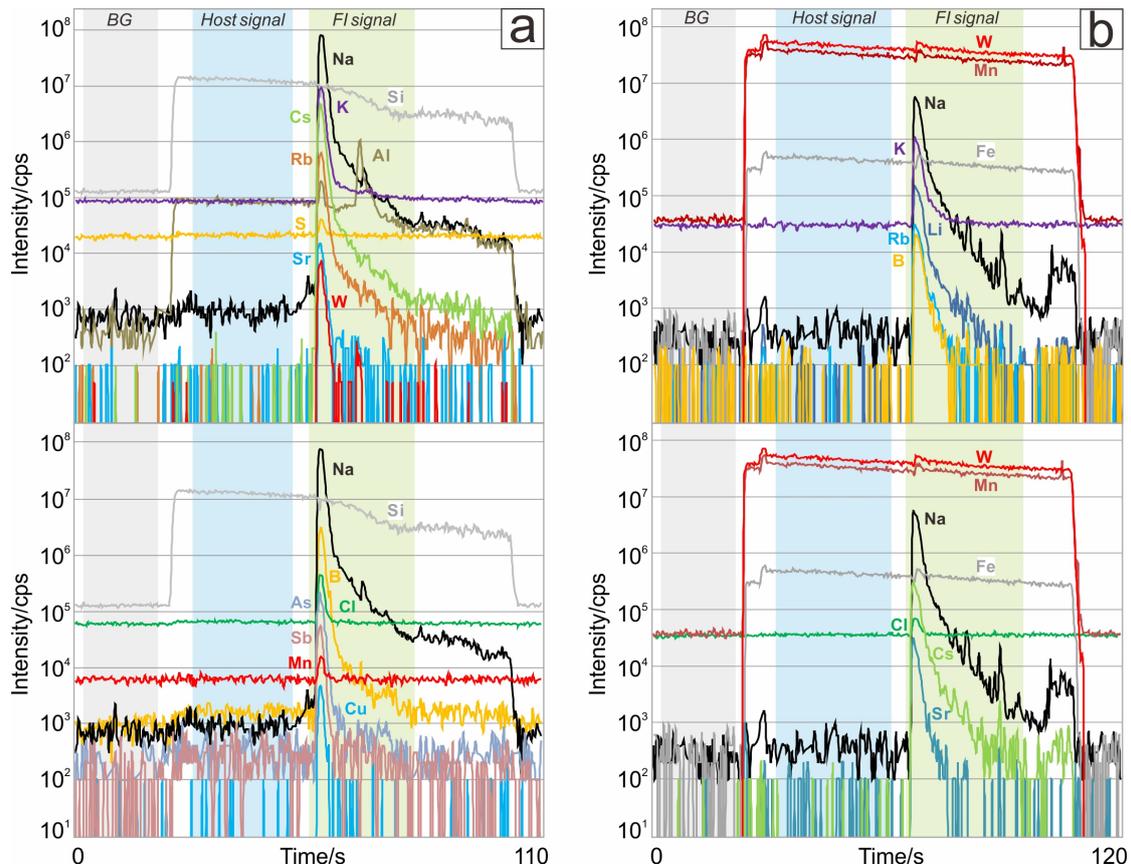


Fig. S2. Characteristic LA-ICP-MS transient signals of selected elements obtained from fluid inclusions in quartz (a) and wolframite (b). (a) Ablation of a  $55 \times 45 \mu\text{m}$  sized,  $45 \mu\text{m}$  deep liquid-rich fluid inclusion (ca. 6.0 wt. % NaCl equiv.) in quartz. The signal was collected after 5 s pre-ablation shots during which the beam diameter was increased from 5 to  $60 \mu\text{m}$ . Note the delayed Al peak is attributed to a small solid phase trapped in the fluid inclusion. (b) Ablation of a flat,  $75 \times 30 \mu\text{m}$  sized and  $20 \mu\text{m}$  deep liquid-rich fluid inclusion (ca. 5.8 wt. % NaCl equiv.) in wolframite. The fluid inclusion was ablated using a beam size of  $90 \mu\text{m}$  in diameter directly without pre-ablation. Abbreviation: BG = background.