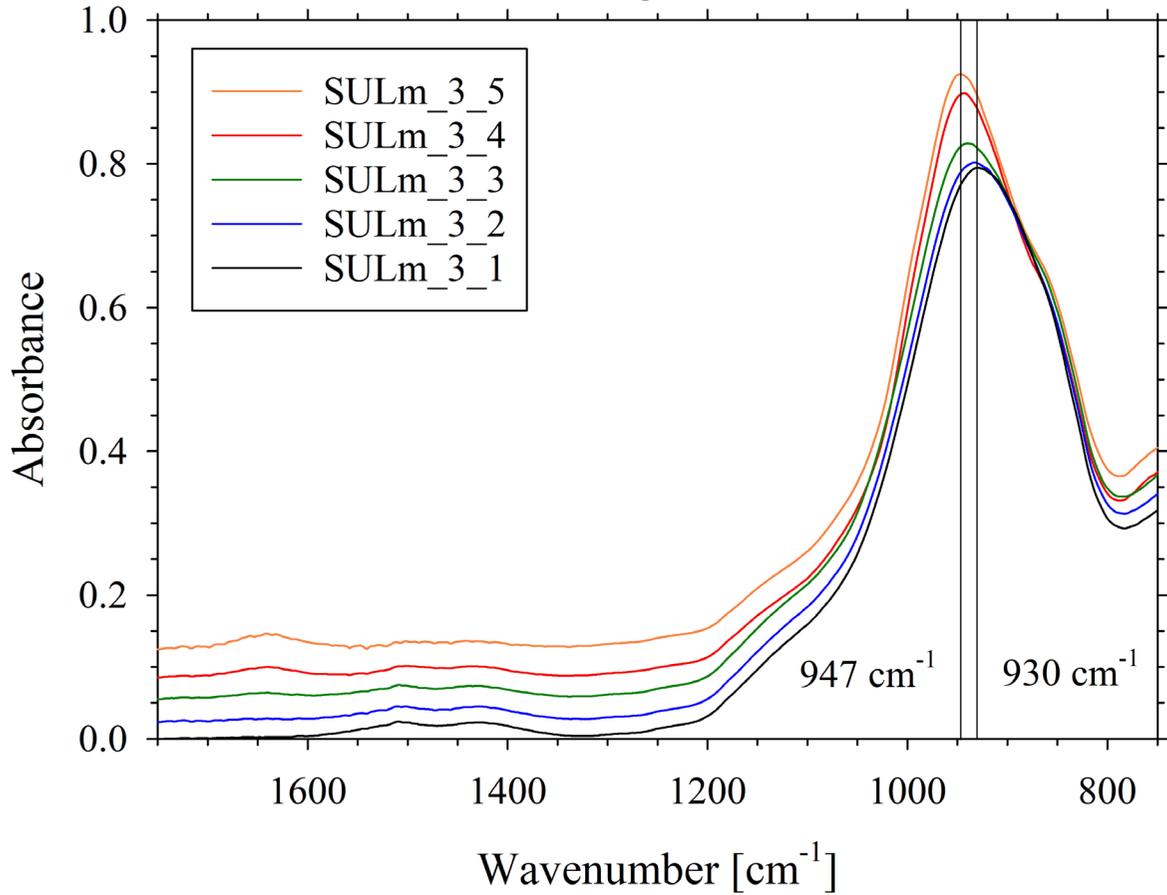


Fig. A4



**FIGURE A4:** ATR FTIR spectra of SULm glasses synthesized at 3 kbar with decreasing H<sub>2</sub>O content from top to bottom (6.29 wt% to 0.65 wt%). Whilst the shape of the lattice vibration band at roughly 930 cm<sup>-1</sup> is unchanged by the presence of water, the peak position is shifting towards higher wavenumbers with increasing H<sub>2</sub>O content.