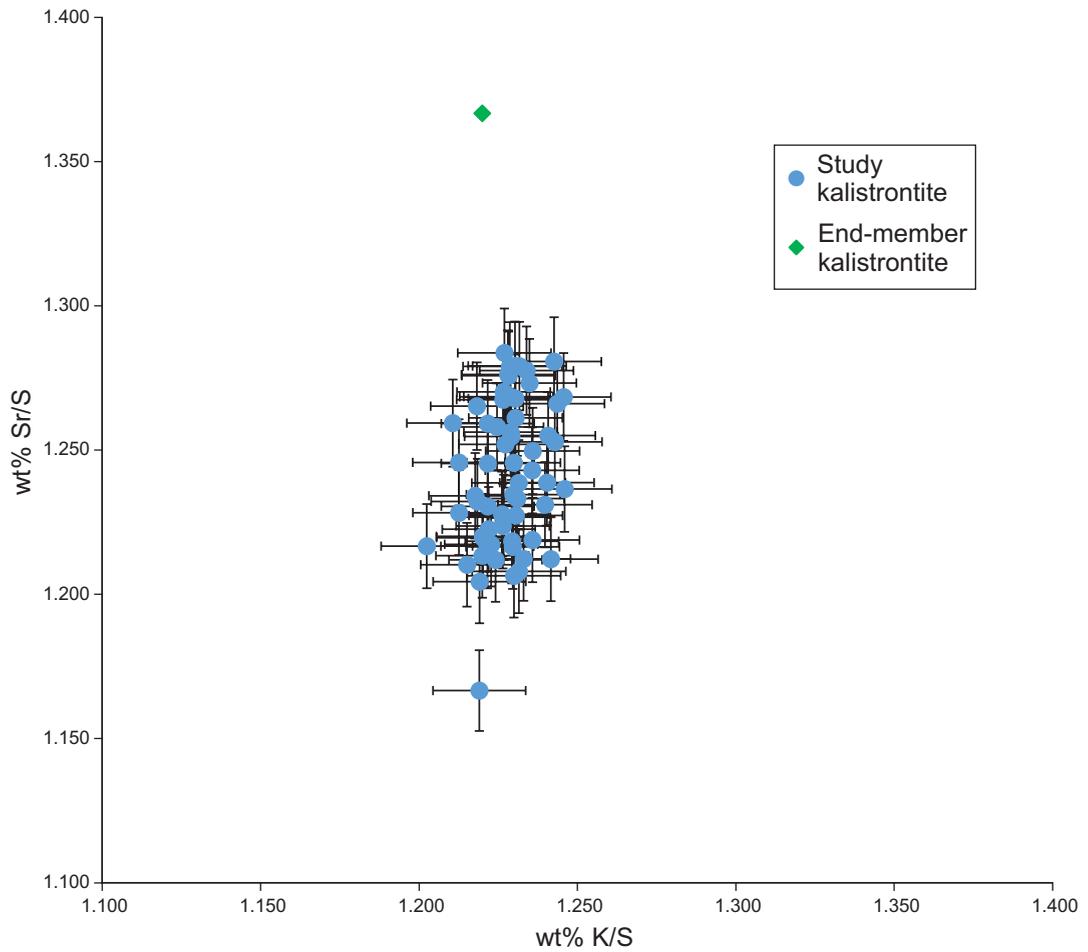


SUPPLEMENTAL FIGURE 1. Comparison of North Yorkshire kalistrontite geochemistry with analyses for previous occurrences. S.D. for the North Yorkshire data shown by the whisker plot.



SUPPLEMENTAL FIGURE 2. Plot of North Yorkshire kalistrontite EDX-derived weight % data, showing the ratio of K to S (X axis) plotted against the ratio of Sr to S (Y axis). Error bars are $1 \times$ quantification S.D. The K/S ratio shows no particular trend and is within quantification error of the end-member, stoichiometric kalistrontite value. The Sr/S values are all significantly below and forming a clear trend, independent of the K/S ratio, away from that expected of end-member kalistrontite.