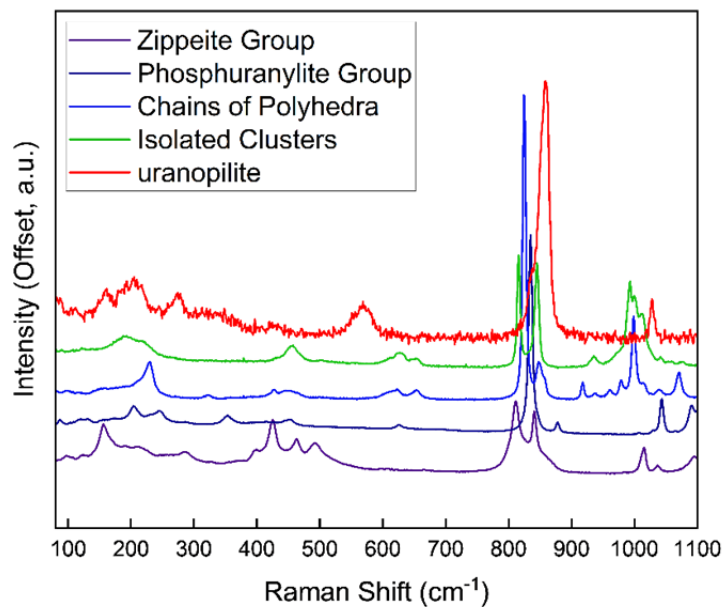


## Supporting Information

**Figure S1.** Raman spectra for uranopilite compared with average spectra for other groups of uranyl sulfate minerals.



**Figure S2.** Raman spectra for ammoniomathesiusite compared with average spectra for other groups of uranyl sulfate minerals.

