

Supporting information:

IR spectra:

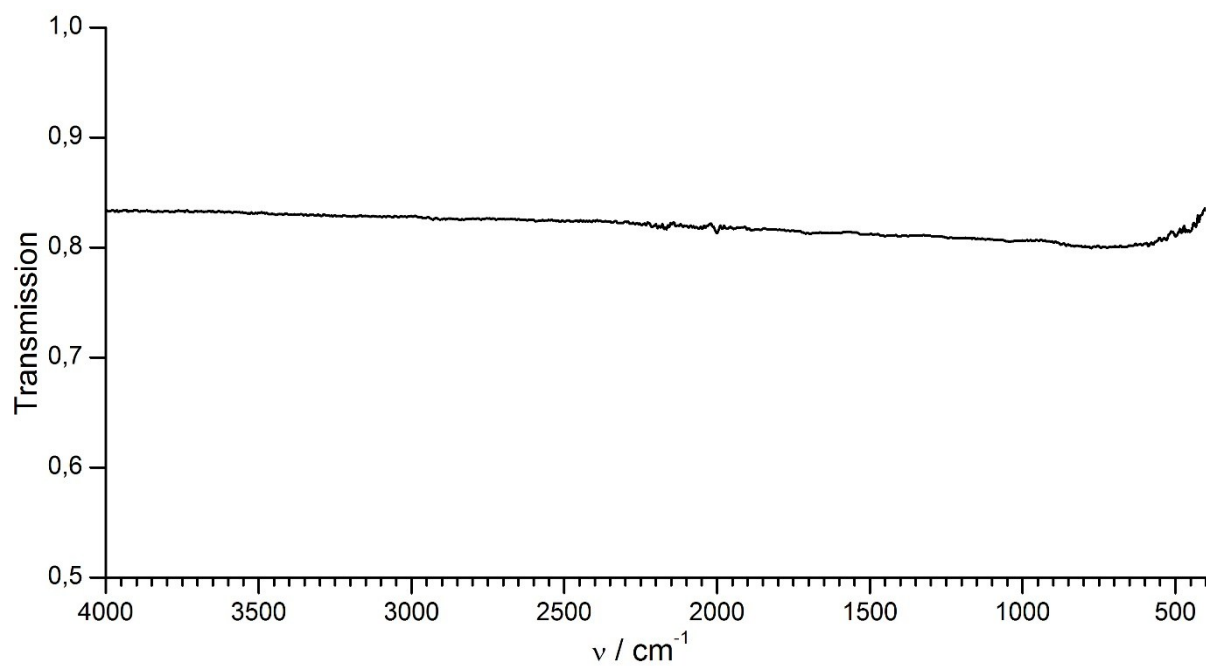


Figure S1. Diamond ATR-FTIR spectrum of UCl_4 .

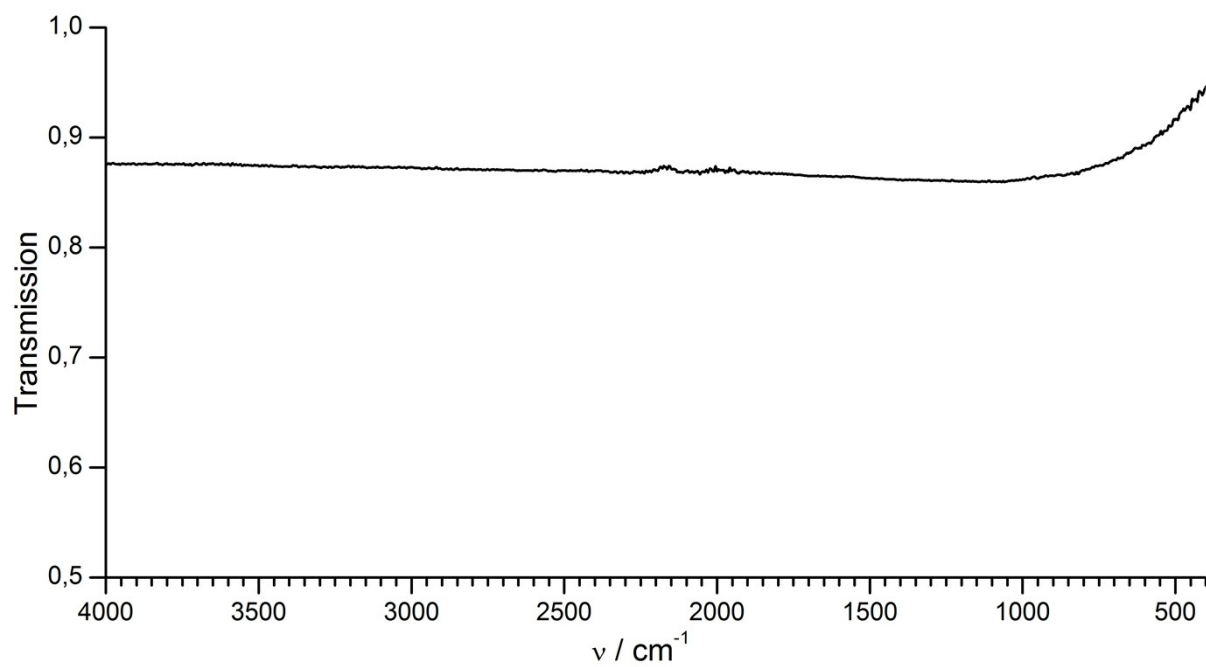


Figure S2. Diamond ATR-FTIR spectrum of UBr_4 .

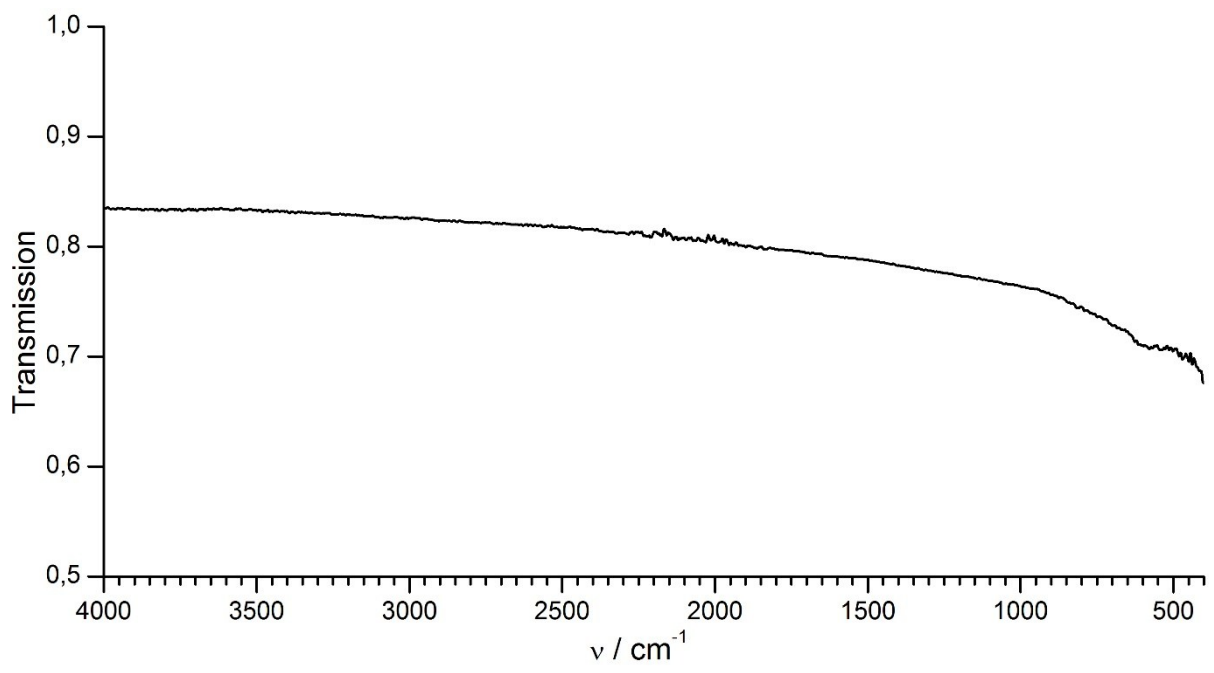


Figure S3. Diamond ATR-FTIR spectrum of UI₄.