

Supplementary Information

Sequently Switchable Molecular Dielectric Tuned by the Stepwise Ordering in Diisopropylammonium Trifluoromethanesulfonate

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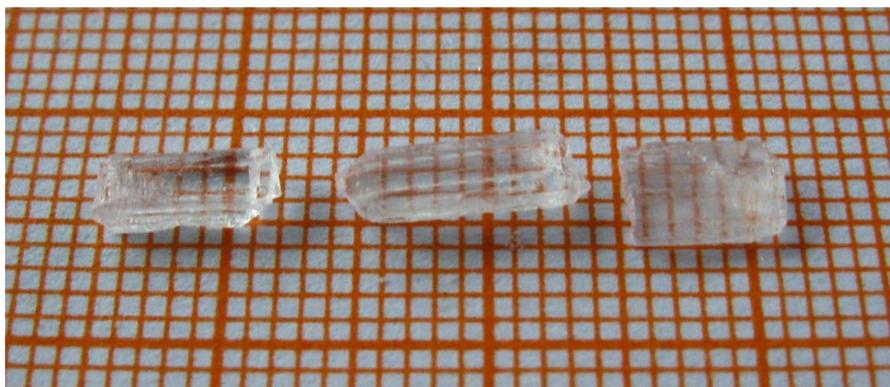


Figure S1. Bulk crystals of **1** grown by slow evaporation from the aqueous solution.

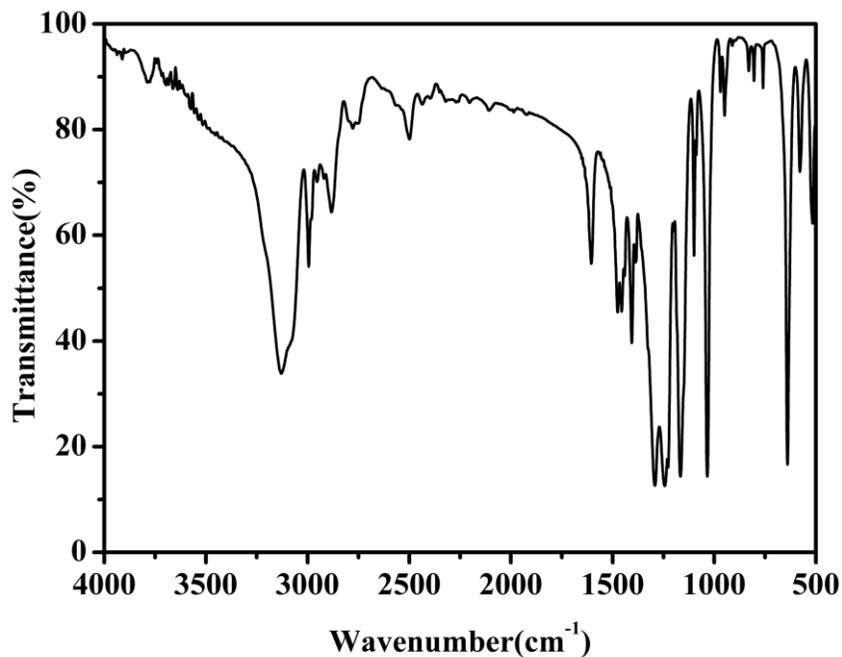


Figure S2. The IR spectrum of 1.

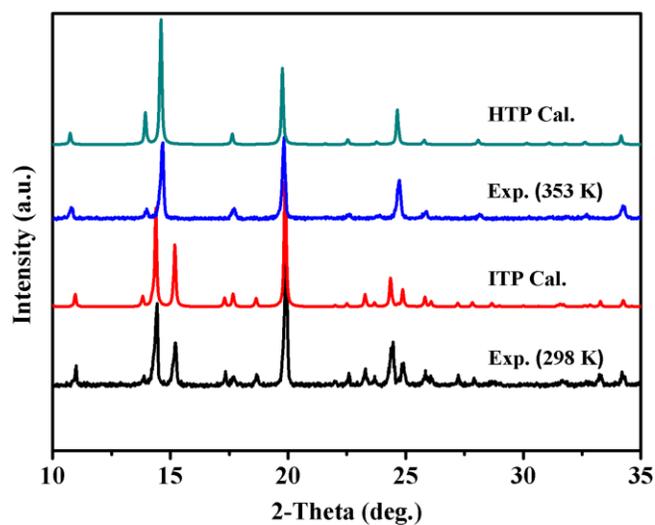


Figure S3. The Calculated and experimental PXR D spectra of 1 at different temperatures. The fairly well agreements reveal the occurrence of the HT phase transition.

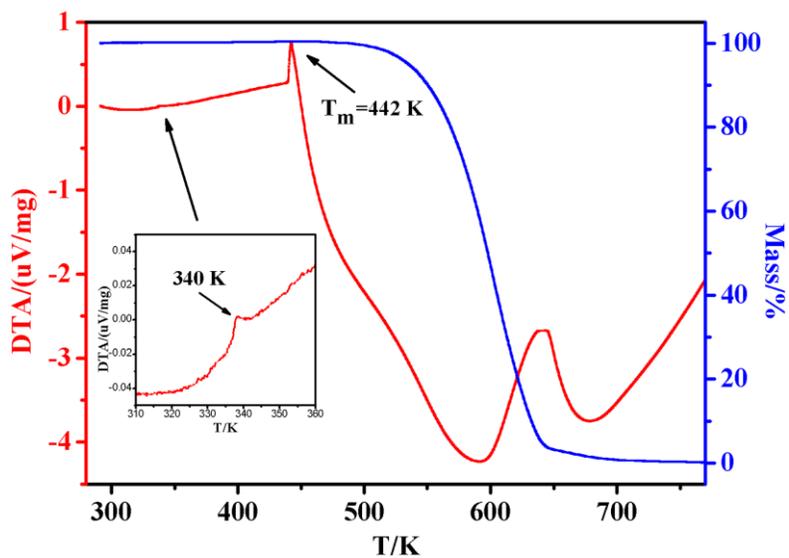


Figure S4. Differential thermal analysis (DTA) and Thermo-Gravimetric (TG) curves of 1.

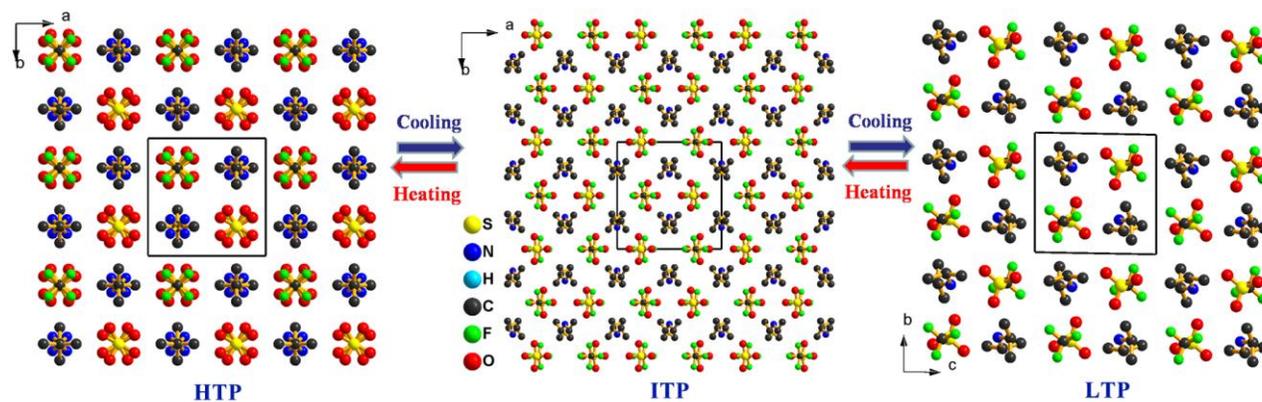


Figure S5. Packing diagram of 1 for three temperature phases.

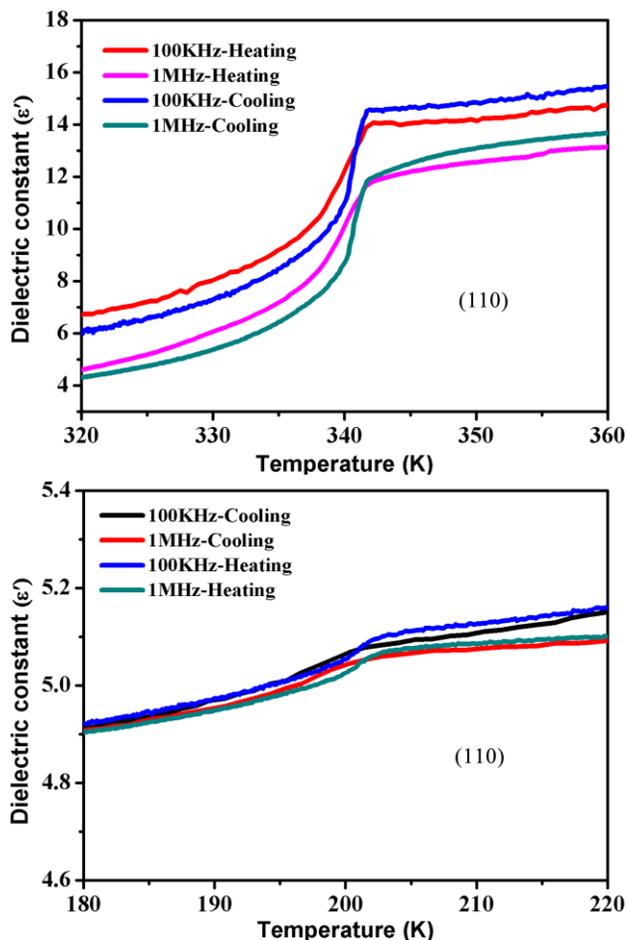


Figure S6. Heating and cooling circles of dielectric constant along (110), showing a quite narrow thermal hysteresis for both two phase transitions.

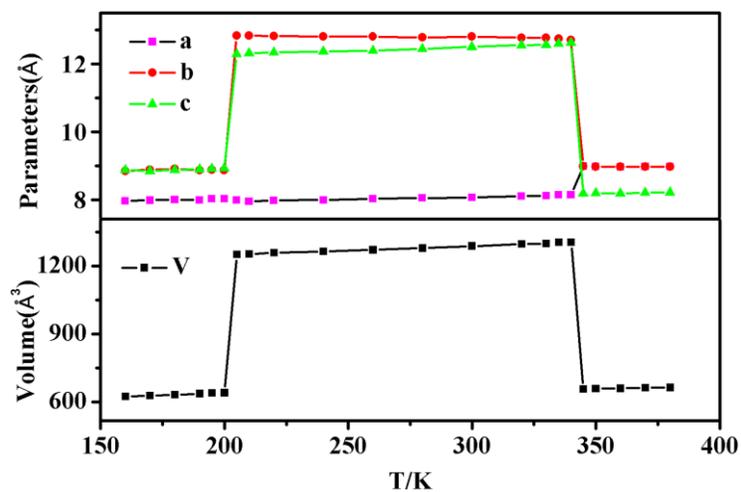


Figure S7. Temperature dependence of cell parameter changes for three axis lengths and cell volume in the range from 160 to 380 K in compound 1.