

Thermodynamics of Bastnaesite - a Major Rare Earth Ore Mineral

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Figure S1. Rietveld fit of PXRD patterns of [La-F-CO₃] (lower panel) and [Ce-F-CO₃] (upper panel)

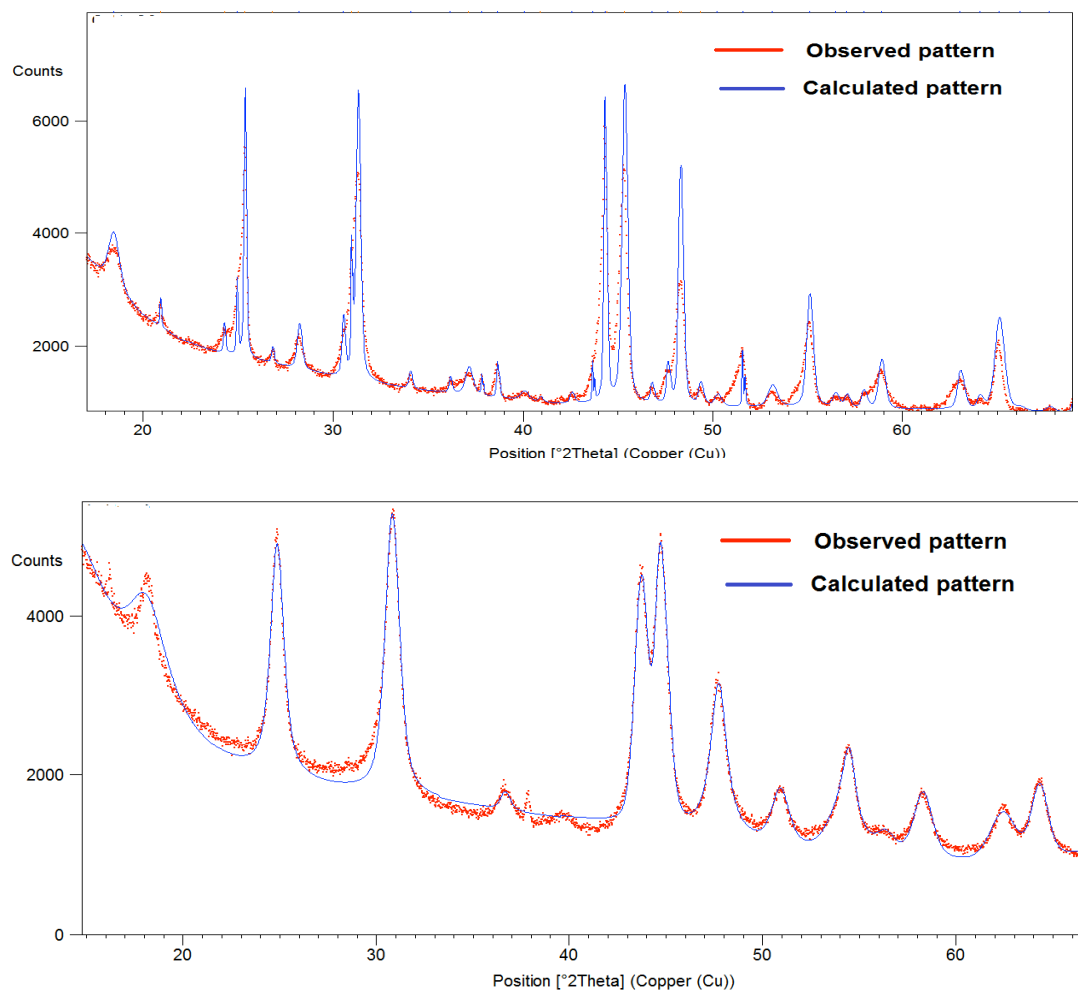


Figure S2. Rietveld fit of PXRD patterns of LaOHCO_3 hexagonal (upper panel) and orthorhombic (lower panel) polymorphs

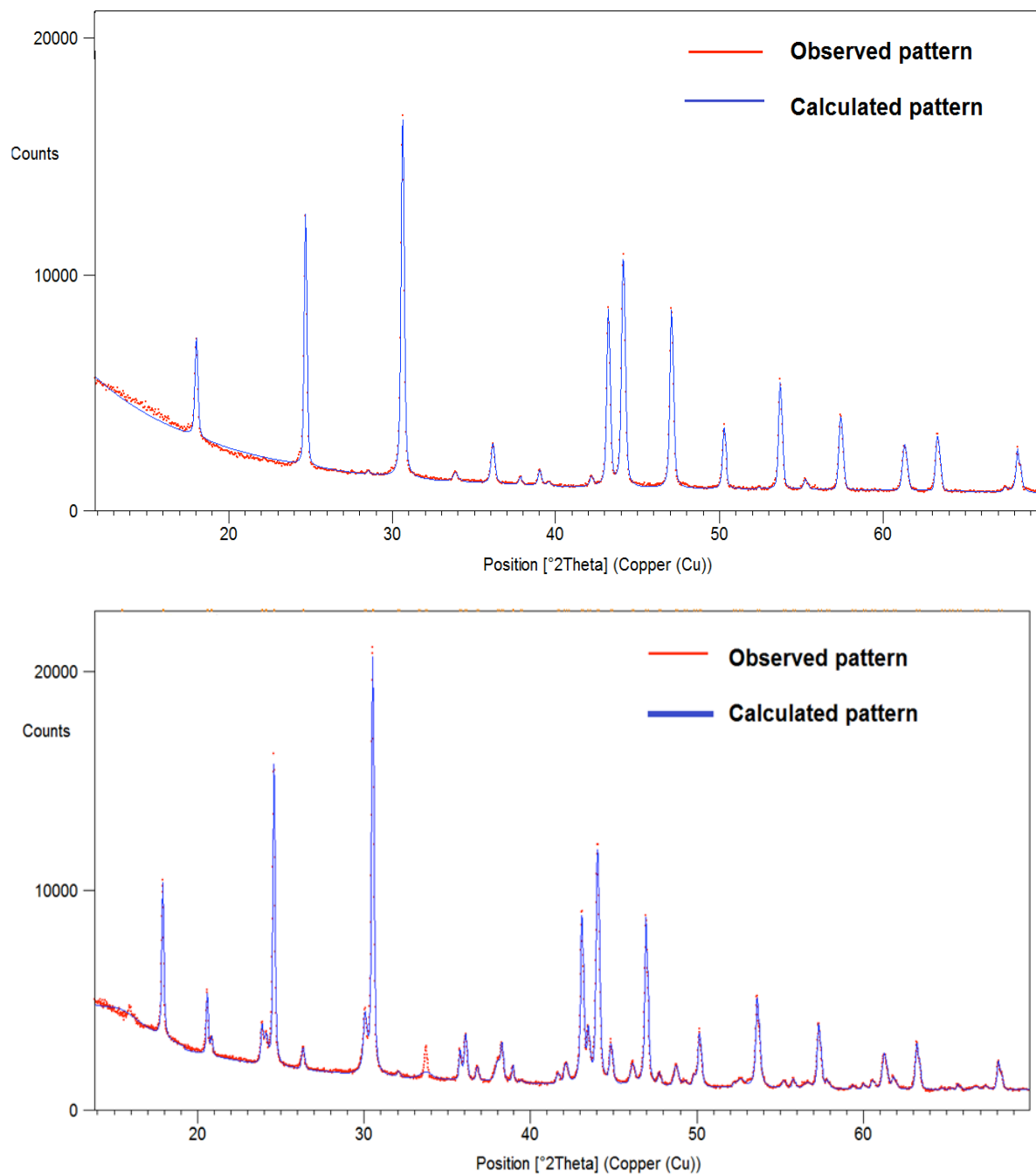


Figure S3. Rietveld fit of PXRD patterns of (a) NdOHCO_3 (b) DyOHCO_3 (c) YOHCO_3 and (d) CeOHCO_3

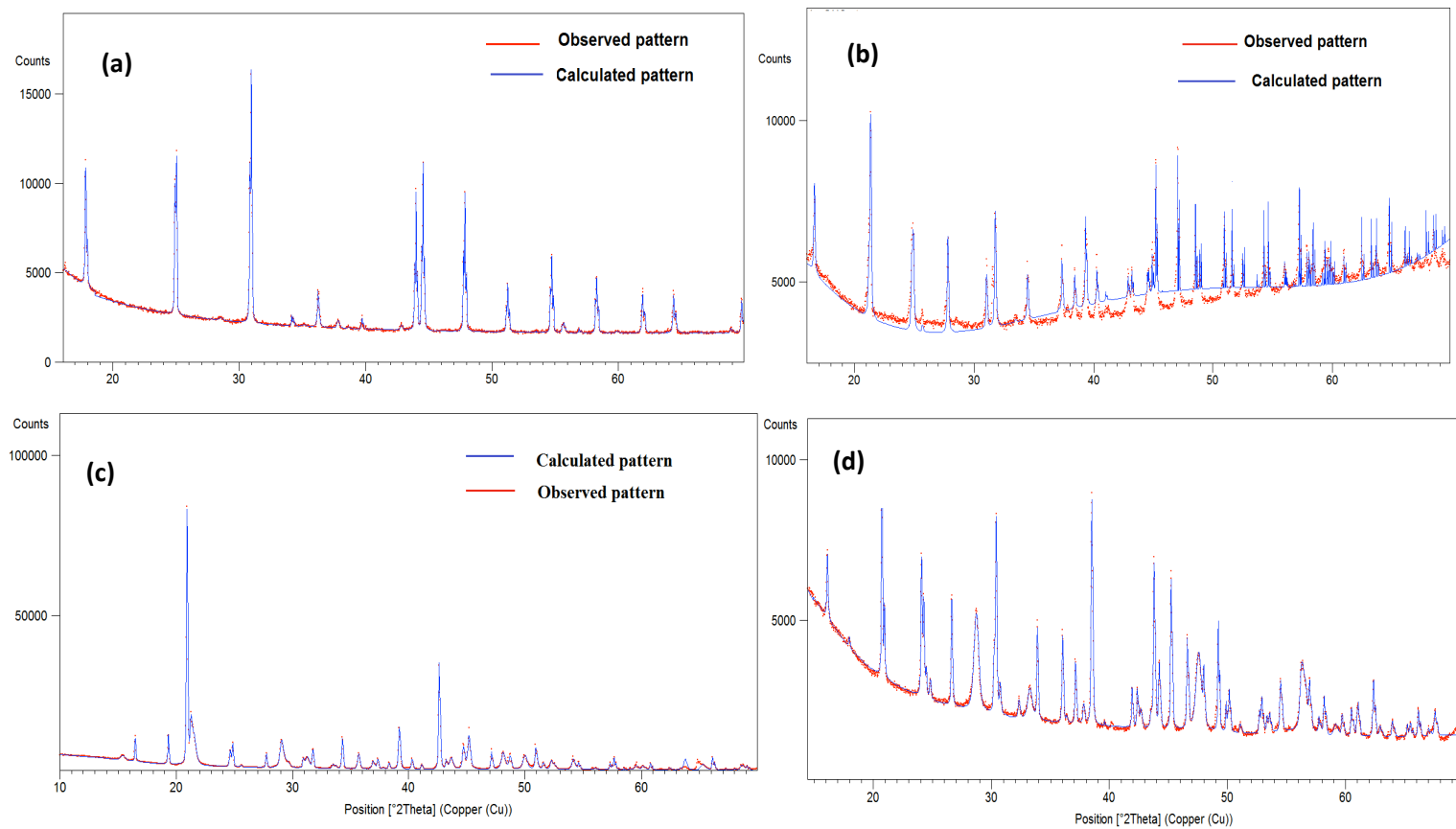


Figure S4. TG curves of (a) F – bastnaesites and (b) OH – bastnaesites

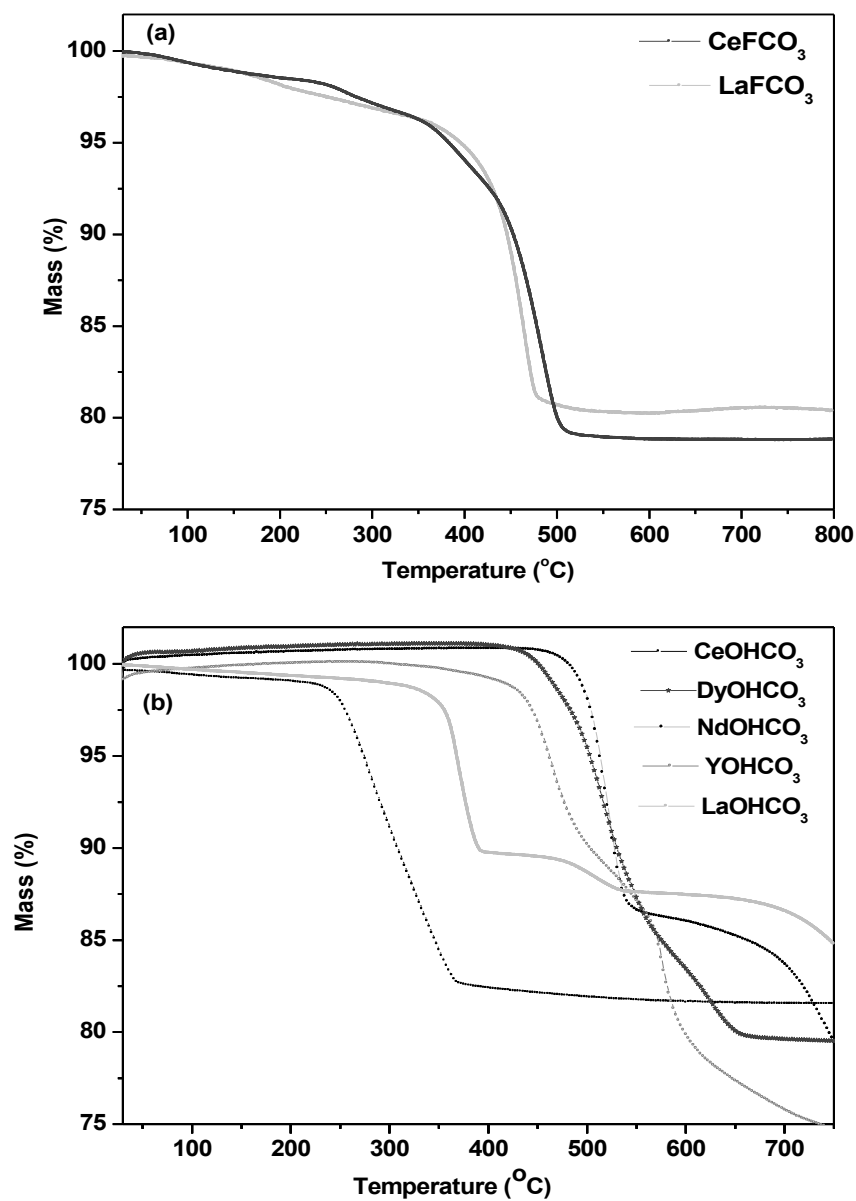


Figure S5. ATR spectra of (a) F-bastnaesites and (b) & (c) OH-bastnaesites

