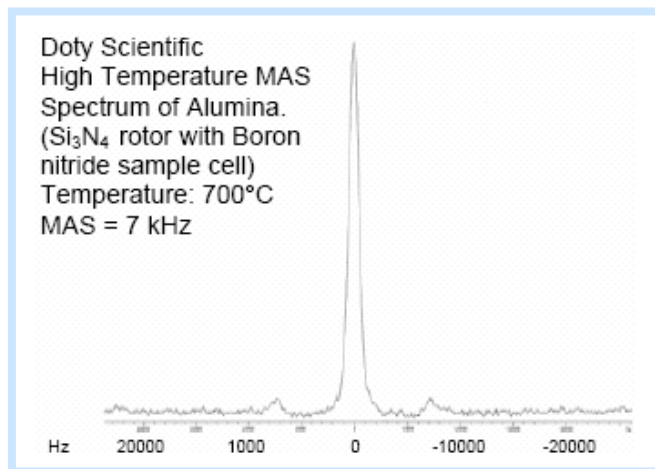
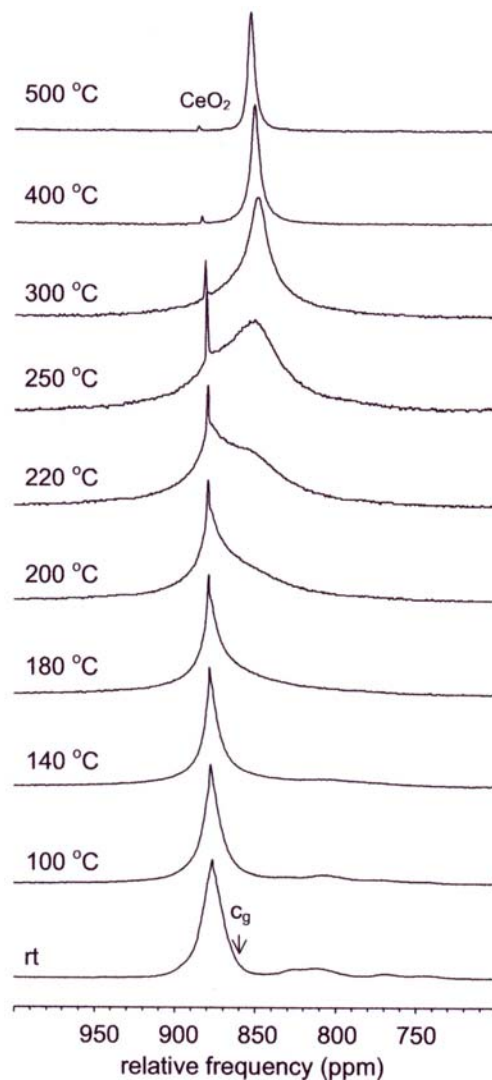


Doty High-Temperature CPMAS probe spectra

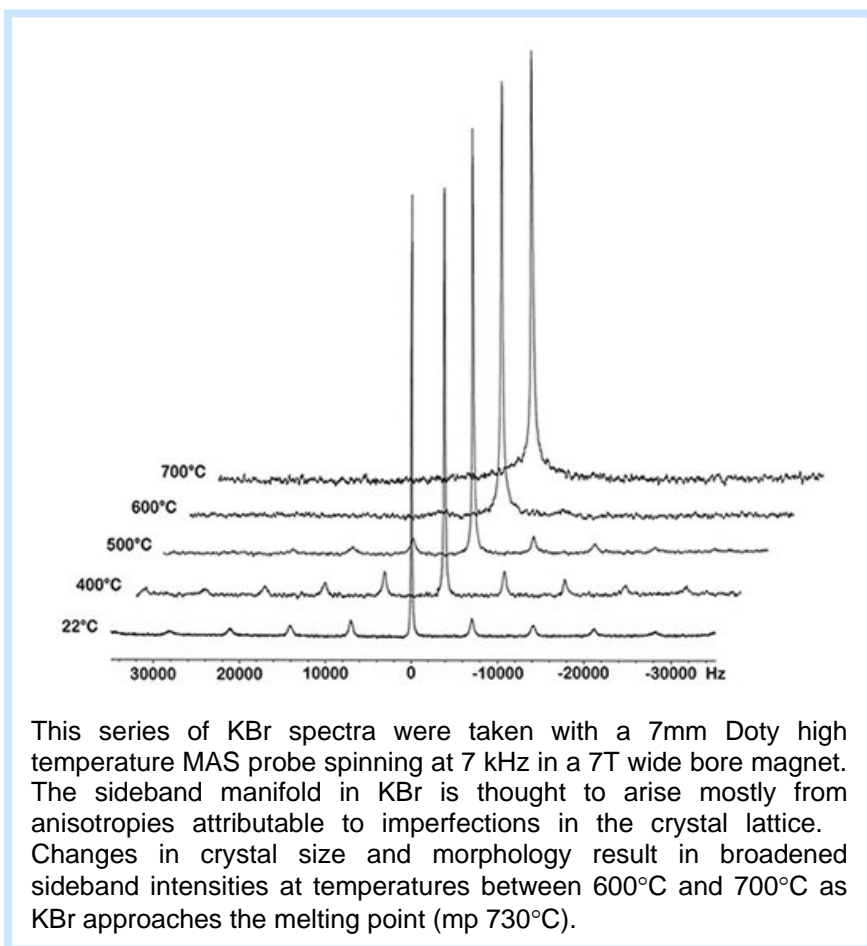


¹⁷O MAS High Temp NMR spectra of 5% Y₂O₃-doped CeO₂ at 9.4 T, MAS = 5 kHz and VT from room temp to 500°C.



Note: A small narrow peak for pure CeO₂ appears to grow in the mid-temperature range because the width of the main peak is at its height in this region.

Courtesy of Namjun Kim and Jonathan Stebbins, Stanford University



This series of KBr spectra were taken with a 7mm Doty high temperature MAS probe spinning at 7 kHz in a 7T wide bore magnet. The sideband manifold in KBr is thought to arise mostly from anisotropies attributable to imperfections in the crystal lattice. Changes in crystal size and morphology result in broadened sideband intensities at temperatures between 600°C and 700°C as KBr approaches the melting point (mp 730°C).