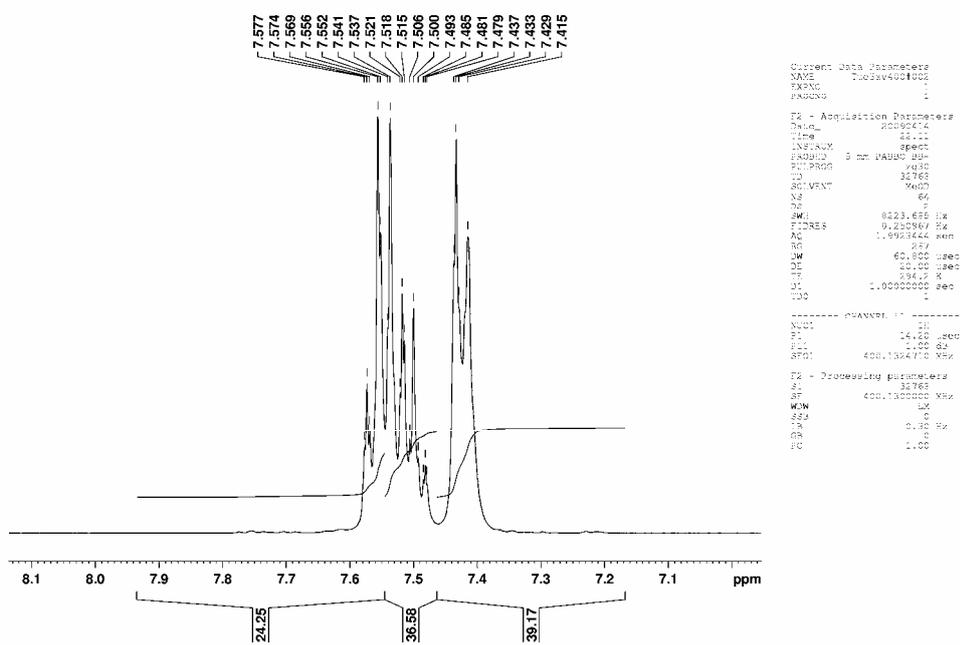
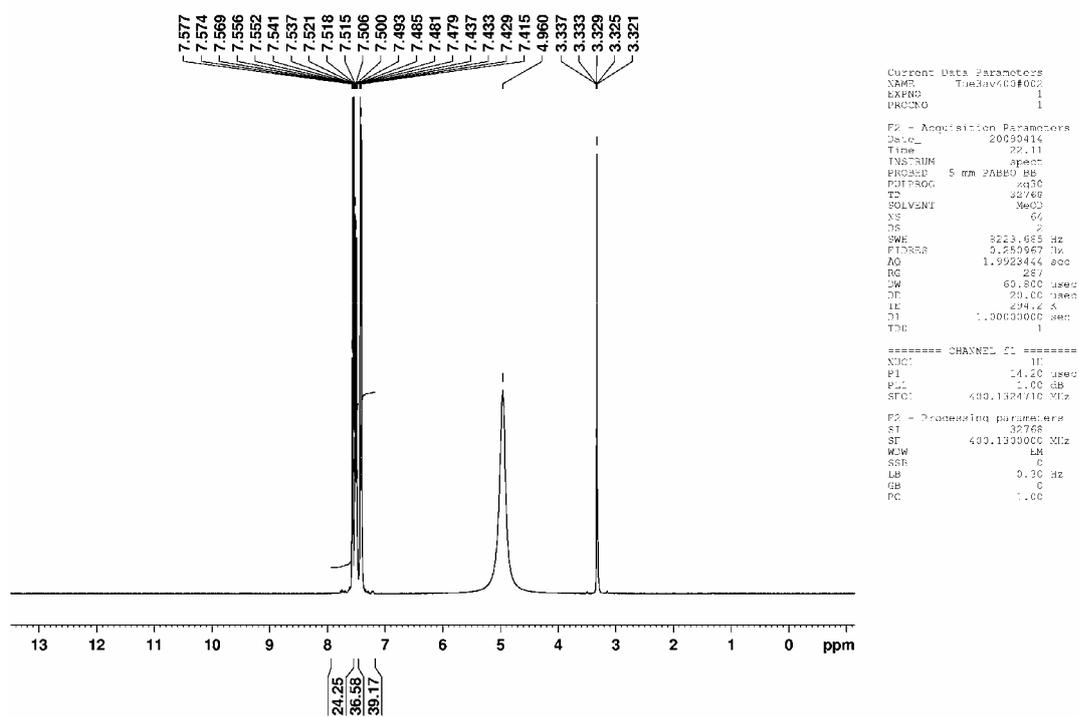


## Supporting Information:

1. Liquid state  $^1\text{H}$  NMR Spectra in MeOD for (a)  $\text{AnHNO}_3\text{-II}$  (b)  $\text{AnHNO}_3\text{-I}$
2. Solid state NMR-  $^{13}\text{C}$  CP MAS for (a)  $\text{AnHNO}_3\text{-II}$  (b)  $\text{AnHNO}_3\text{-I}$
3. Powder X-ray diffraction data for different crystals of  $\text{AnHNO}_3$ .
4. FT-IR spectra of  $\text{AnHNO}_3\text{-I}$  and II
5. Powder X-ray diffraction data for  $\text{AnHNO}_3\text{-I}$ , after heating at  $110\text{ }^\circ\text{C}$
6. DSC thermogram-  $\text{AnHNO}_3\text{-I}$ : repeated heating and cooling cycles.
7. SEM images of  $\text{AnHNO}_3\text{-I}$  showing pores on the surface.
8. Powder X-ray pattern for amorphous Alumina.
9. Solid state  $^{27}\text{Al}$  NMR on Alumina



(a)

Figure 1. Liquid state  $^1\text{H}$  NMR Spectra in MeOD for (a)  $\text{AnHNO}_3\text{-II}$  (b)  $\text{AnHNO}_3\text{-I}$







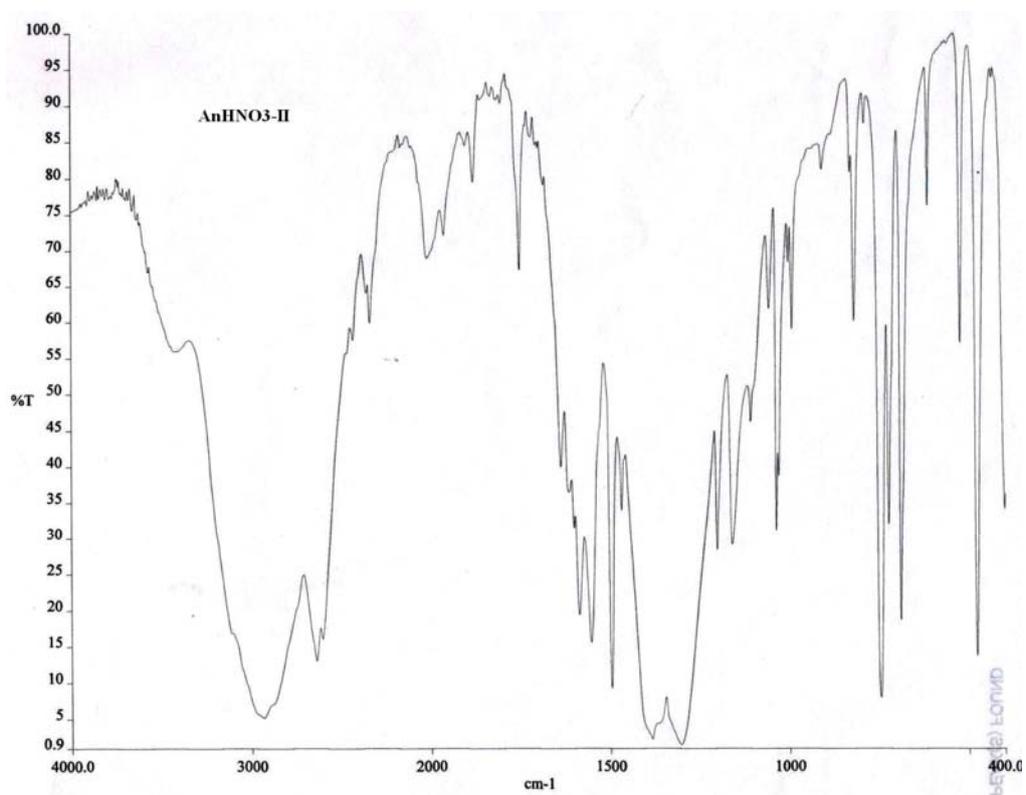
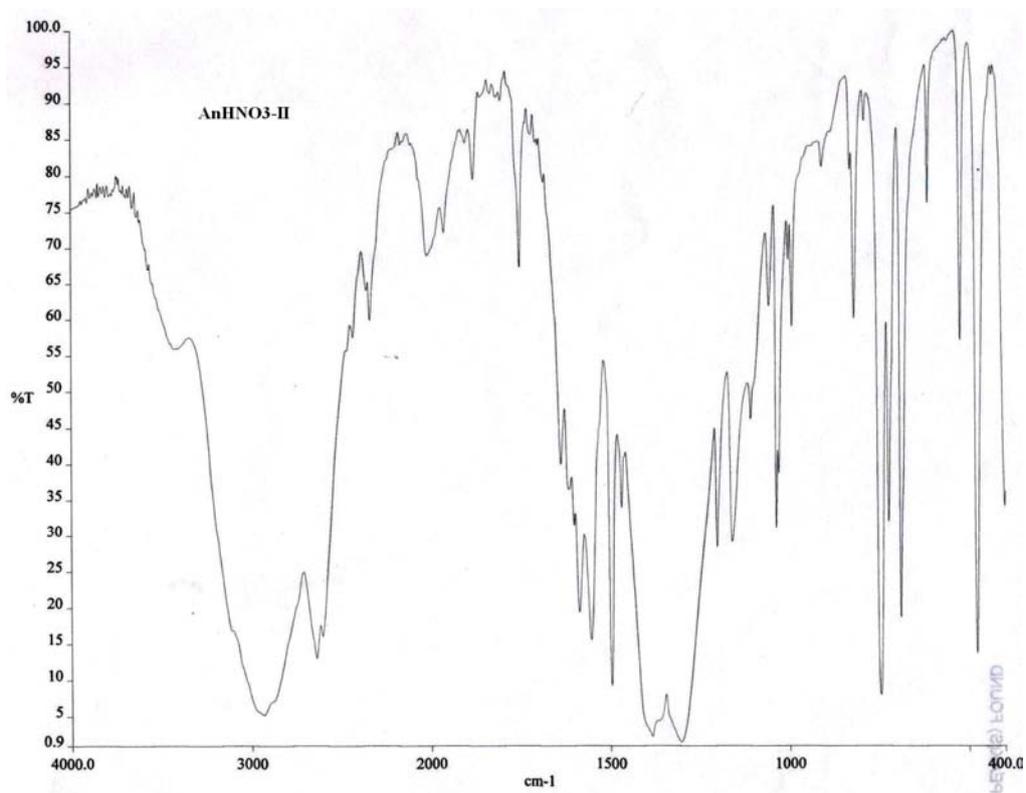
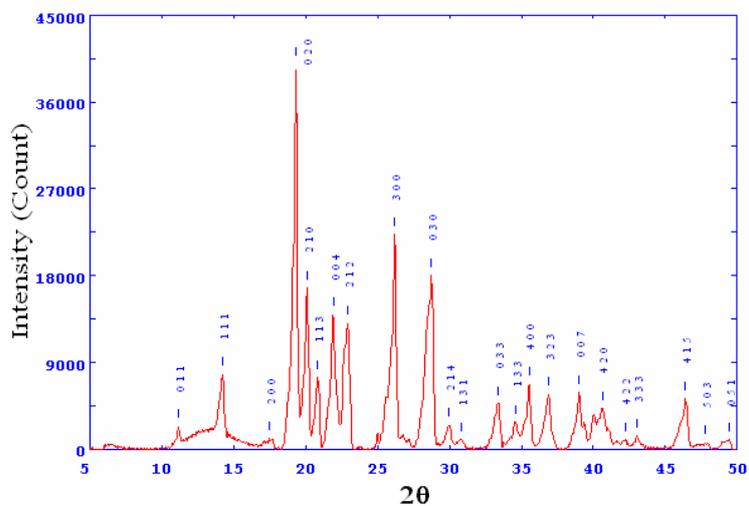
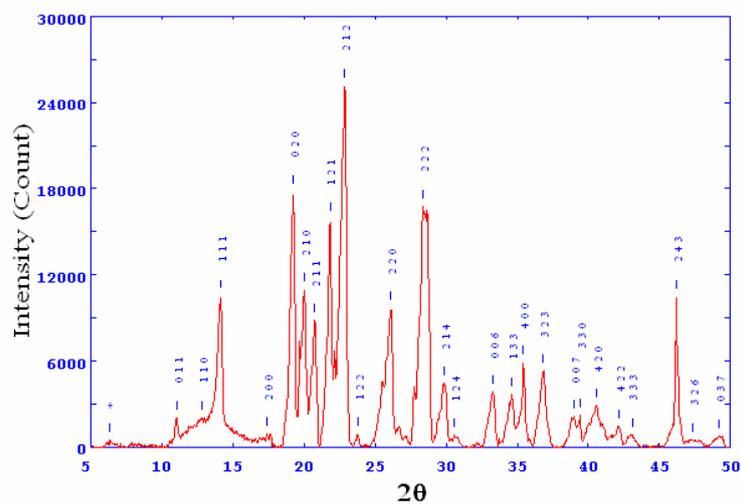


Figure 4. FT-IR spectra of AnHNO<sub>3</sub>-I and II

AnHNO<sub>3</sub>-I



AnHNO<sub>3</sub>-I 1a



AnHNO<sub>3</sub>-I 1b

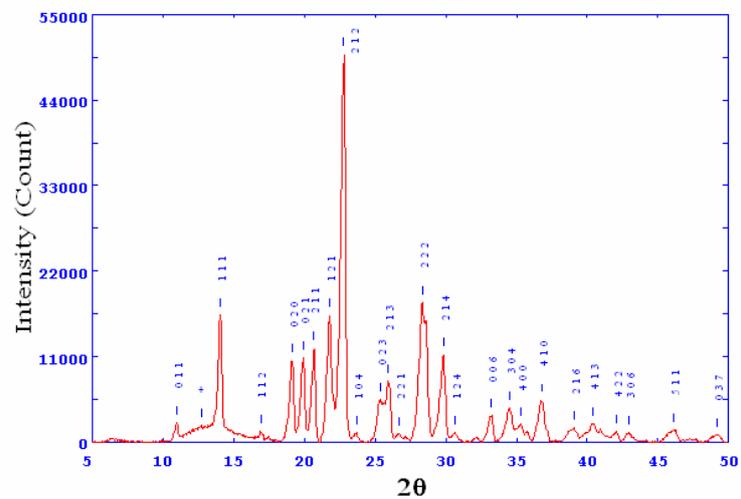


Figure 5. Powder X-ray diffraction data for AnHNO<sub>3</sub>-I, after re-heating at 110 °C

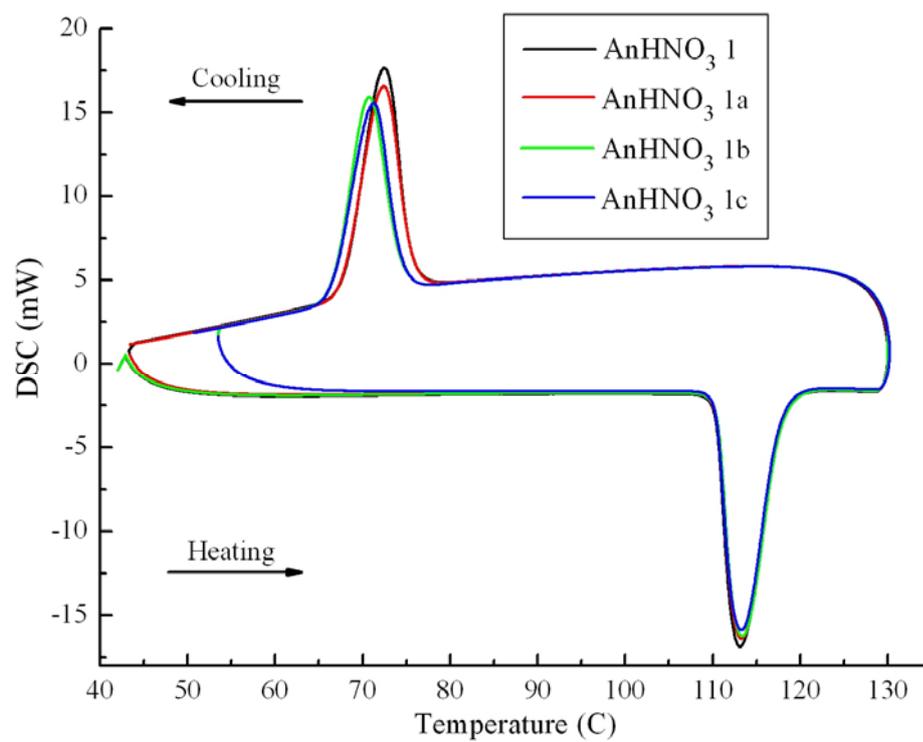


Figure 6: DSC thermogram- AnHNO<sub>3</sub>-I: repeated heating and cooling cycles.  
1a,1b,1c shows repeat cycles.

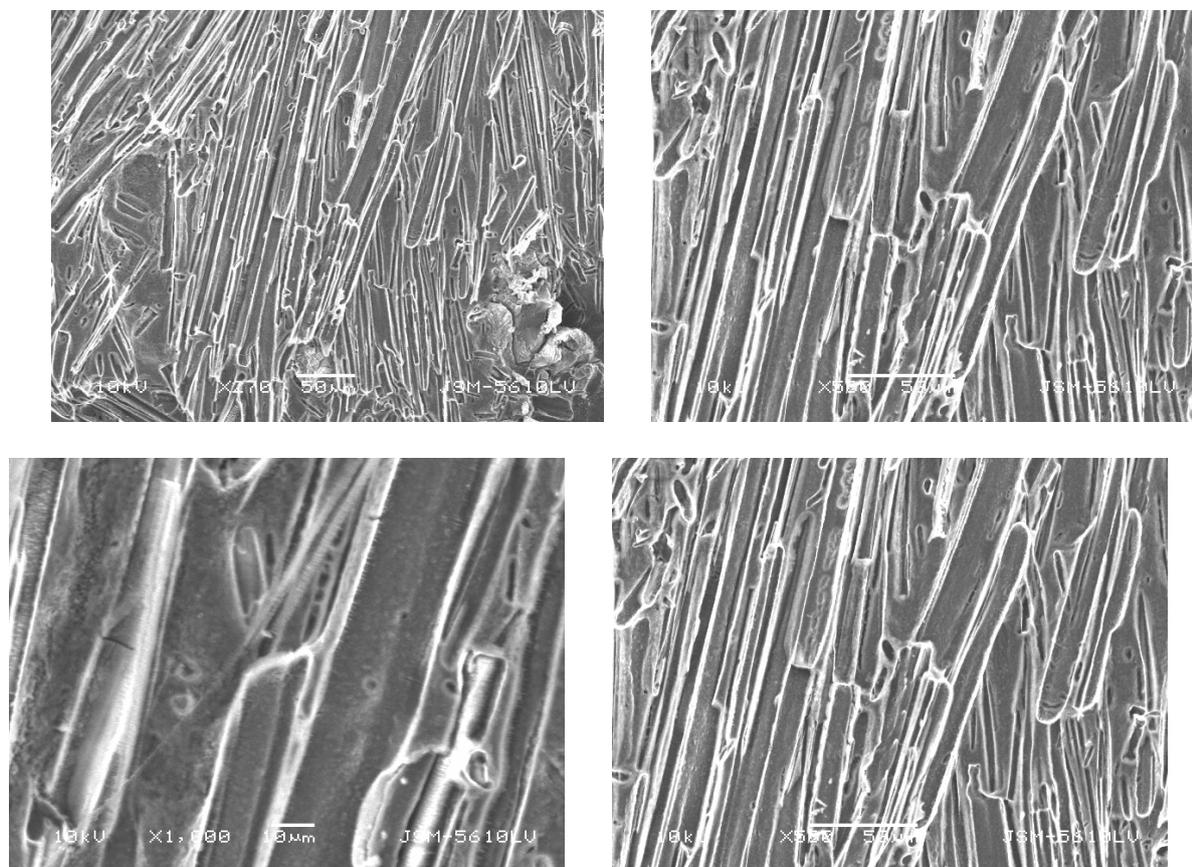


Figure 7. SEM images of AnHNO<sub>3</sub>-I showing pores on the surface of the tubes.

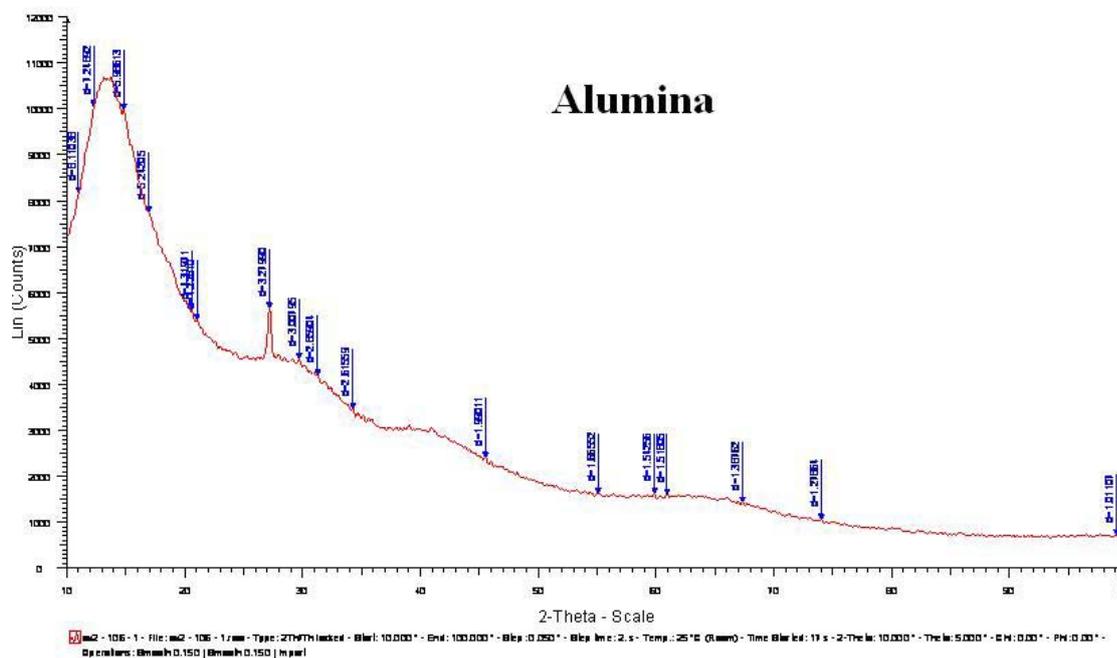


Figure 8: Powder X-ray pattern on amorphous Alumina.

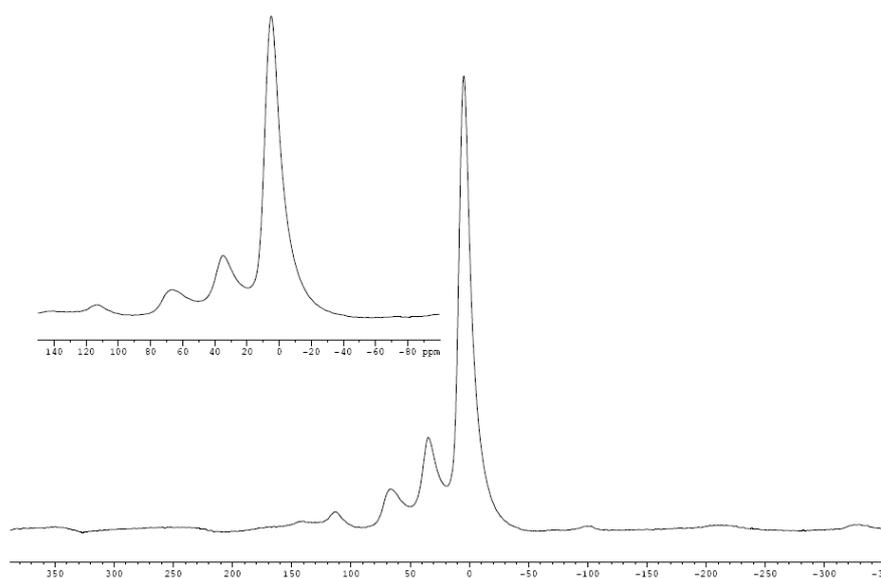


Figure 9:  $^{27}\text{Al}$  NMR spectra recorded at MAS frequency of 10kHz.