SUPPLEMENTARY INFORMATION

Complete dissolution and partial delignification of wood in the ionic liquid 1-ethyl-3-methylimidazolium acetate

Ning Sun,[a] Mustafizur Rahman,[a] Ying Qin,[a] Mirela L. Maxim,[a] Héctor Rodríguez,[b] and Robin D. Rogers[a,b,]*

[a] Center for Green Manufacturing and Department of Chemistry, The University of Alabama, Tuscaloosa, AL 35487, USA

[b] QUILL, School of Chemistry and Chemical Engineering, The Queen's University of Belfast, Belfast, BT9 5AG, Northern Ireland, UK

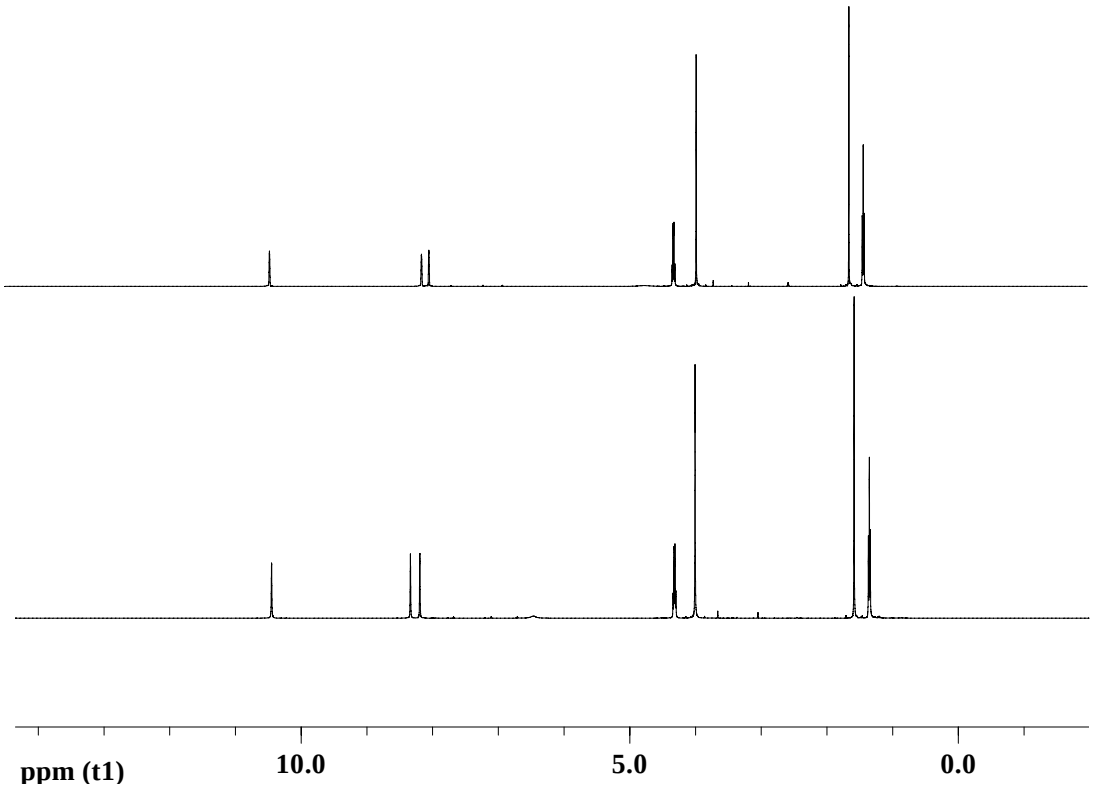

Figure S1. ^{1}H NMR spectra for original [C_2mim]OAc (top) and for [C_2mim]OAc heated at 110 °C for 48 h (bottom), indicating apparent non-degradation of the IL after the thermal treatment.

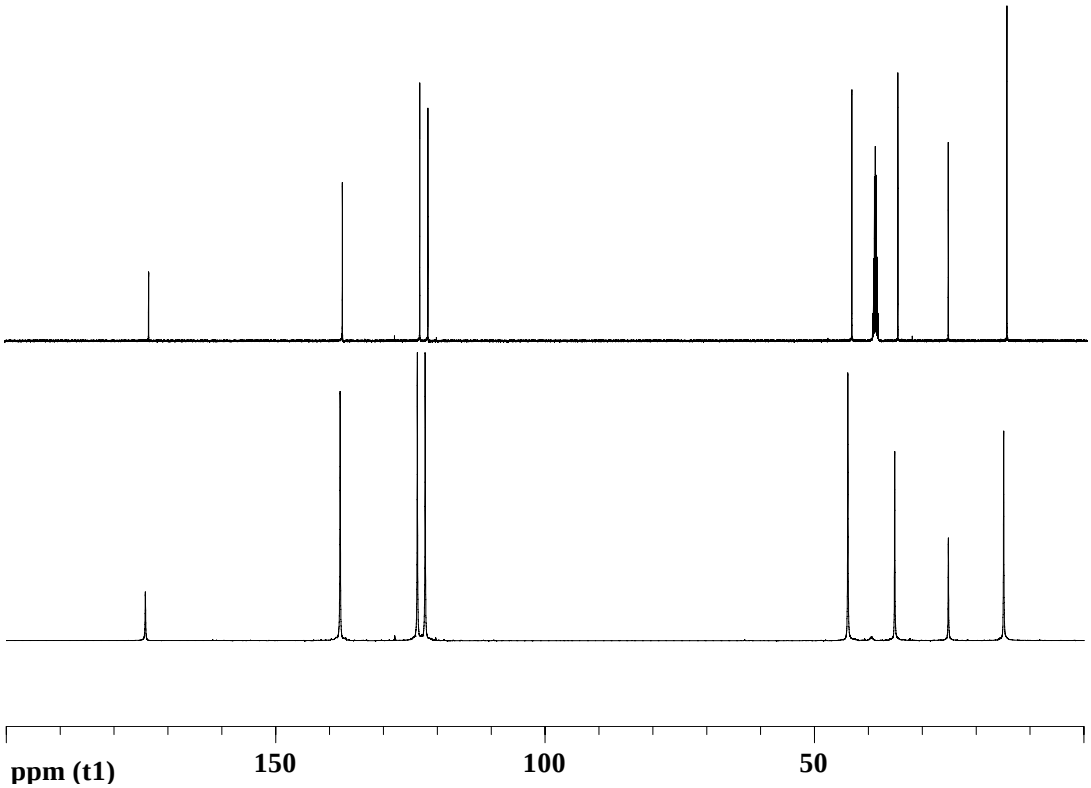

Figure S2. ^{13}C NMR spectra for original [C_2mim]OAc (top) and for [C_2mim]OAc heated at 110 °C for 48 h (bottom) indicating apparent non-degradation of the IL after the thermal treatment.

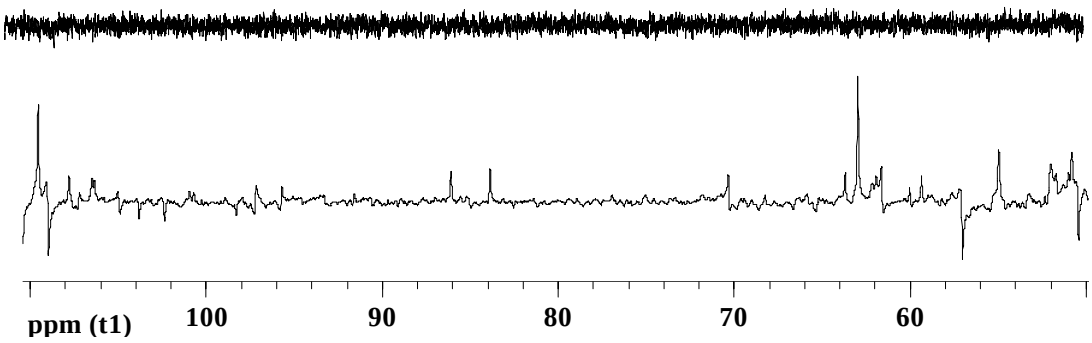

Figure S3. Magnified view of ^{13}C NMR spectra in the range of 50-110 ppm: original [C_2mim]OAc (top) and [C_2mim]OAc heated at 110 °C for 48 h (bottom), likely indicating some minor degradation of [C_2mim]OAc after the thermal treatment.

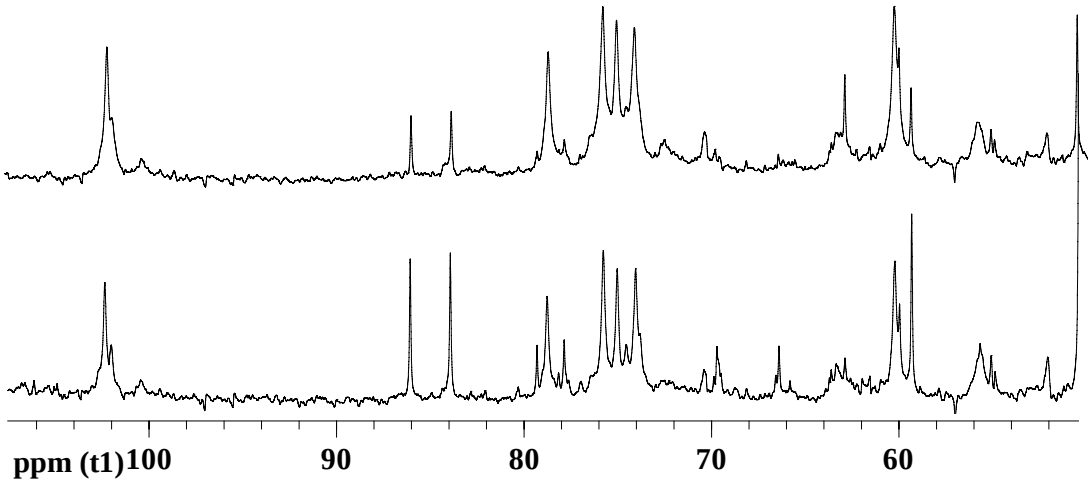

Figure S4. ^{13}C NMR spectra of 5 parts of wood (southern yellow pine) in 100 parts of [C_2mim]OAc after dissolution at 110 °C for 16 h (top) and for 47 h (bottom), indicating more degradation with longer heating time.