energies

Supplementary Material.

Title: Evolved Gas Analysis of Waste Polypropylene, Cardboard, Wood biomass and Their Blends: A TG-FTIR Approach

Authors: Martinson Joy Dadson Bonsu, Md Sydur Rahman, Lachlan H. Yee, Ernest Du Toit, Graeme Palmer, and Shane McIntosh*

Faculty of Science and Engineering, Southern Cross University, Lismore, NSW 2480, Australia

*Correspondence: sydur.rahman@scu.edu.au; shane.mcintosh@scu.edu.au

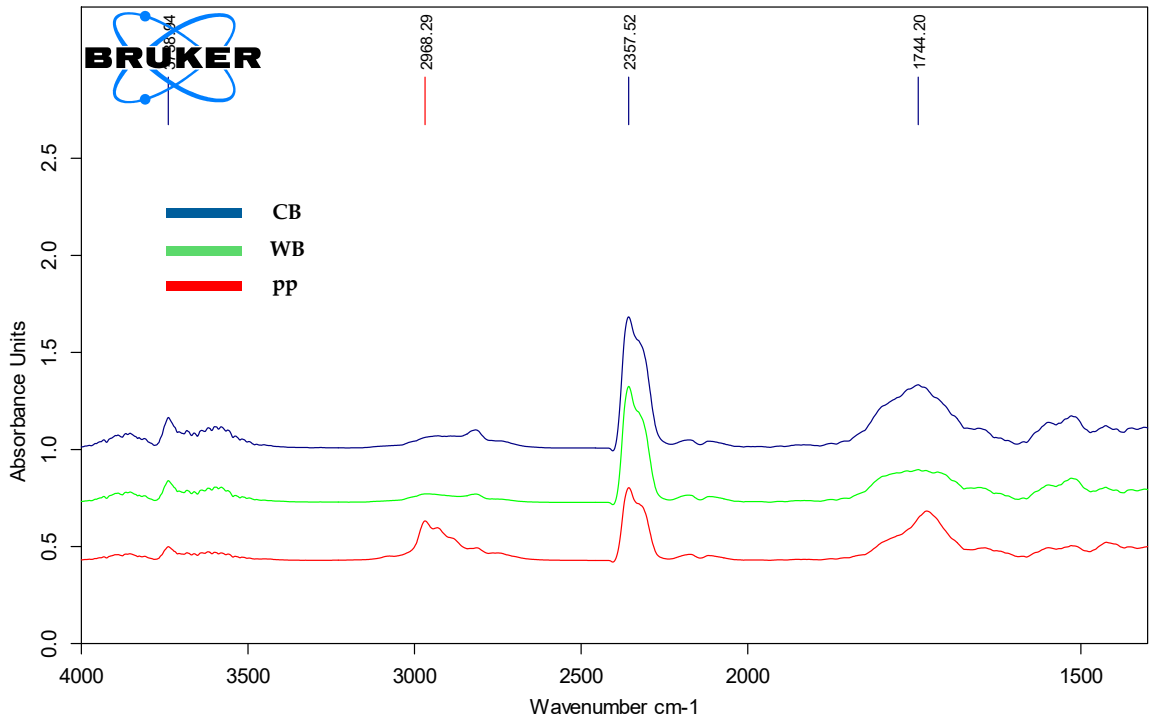


Figure S1. IR Spectrum for Evolved Gas in CB, WB, and PP with 20 °C/min sampled at 340 °C, 350 °C and 440 °C

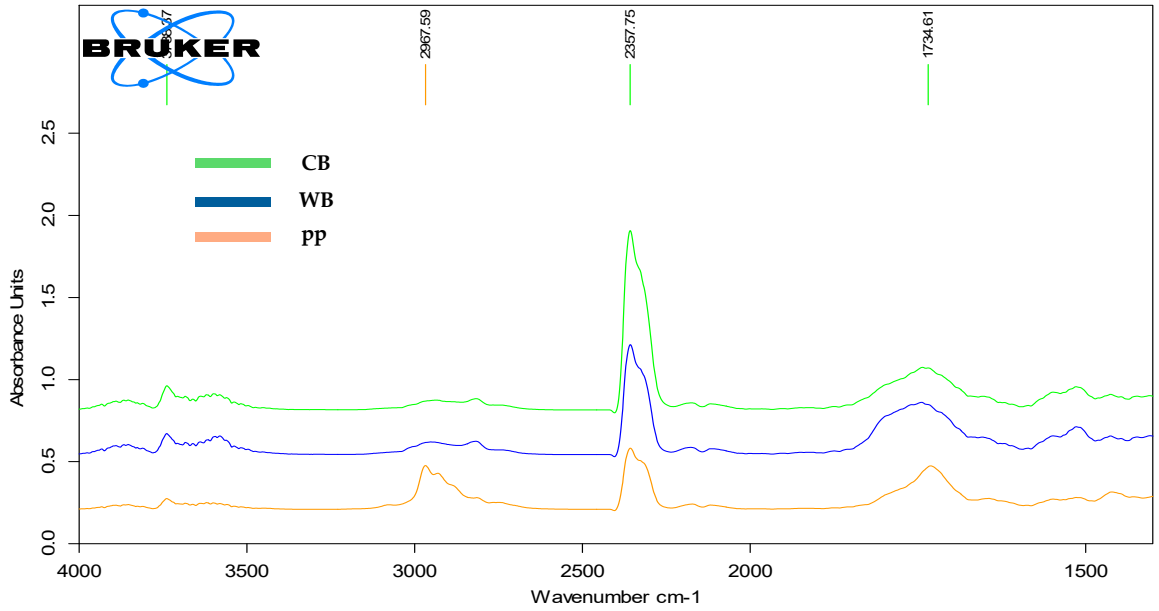


Figure S2. IR Spectrum for Evolved Gas in CB, WB, and PP with 40 °C/min sampled at 350 °C, 360 °C and 470 °C, respectively

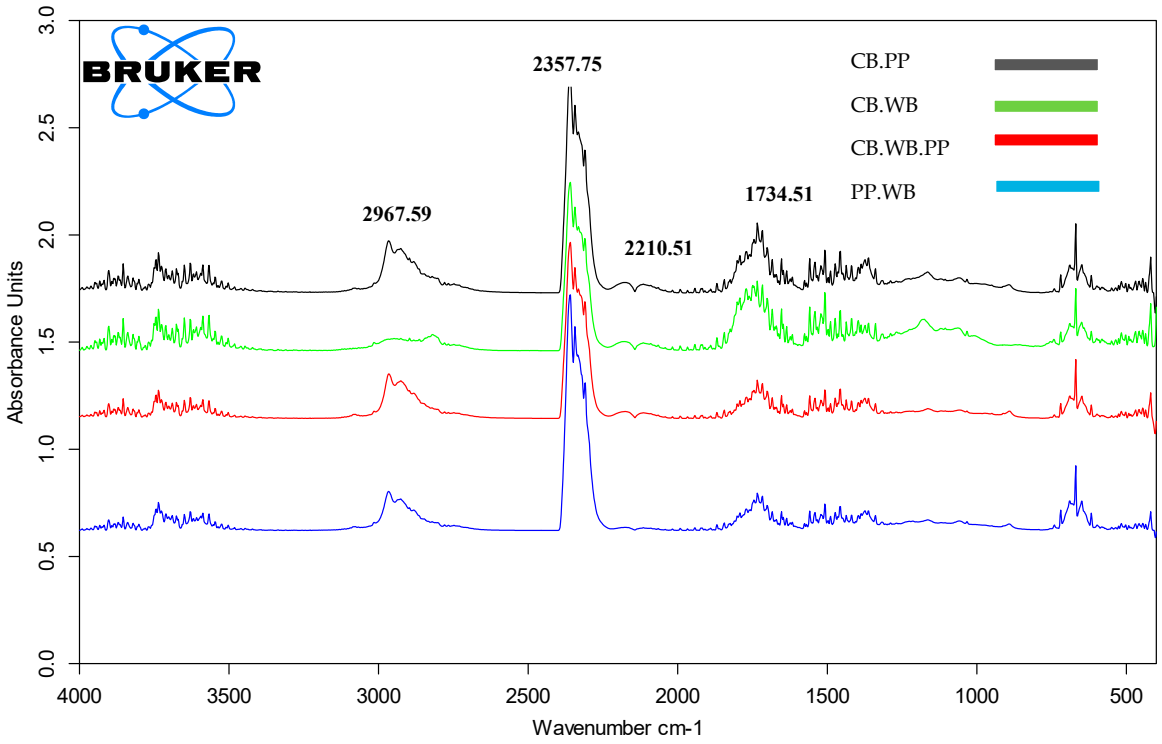


Figure S3. IR Spectrum for Evolved Gas in CB.PP, CB.WB, CB.WB.PP (33.3:33.3:33.3) and PP.WB blends at 20 °C/min at 380 °C, 350 °C, 410 °C and 445 °C

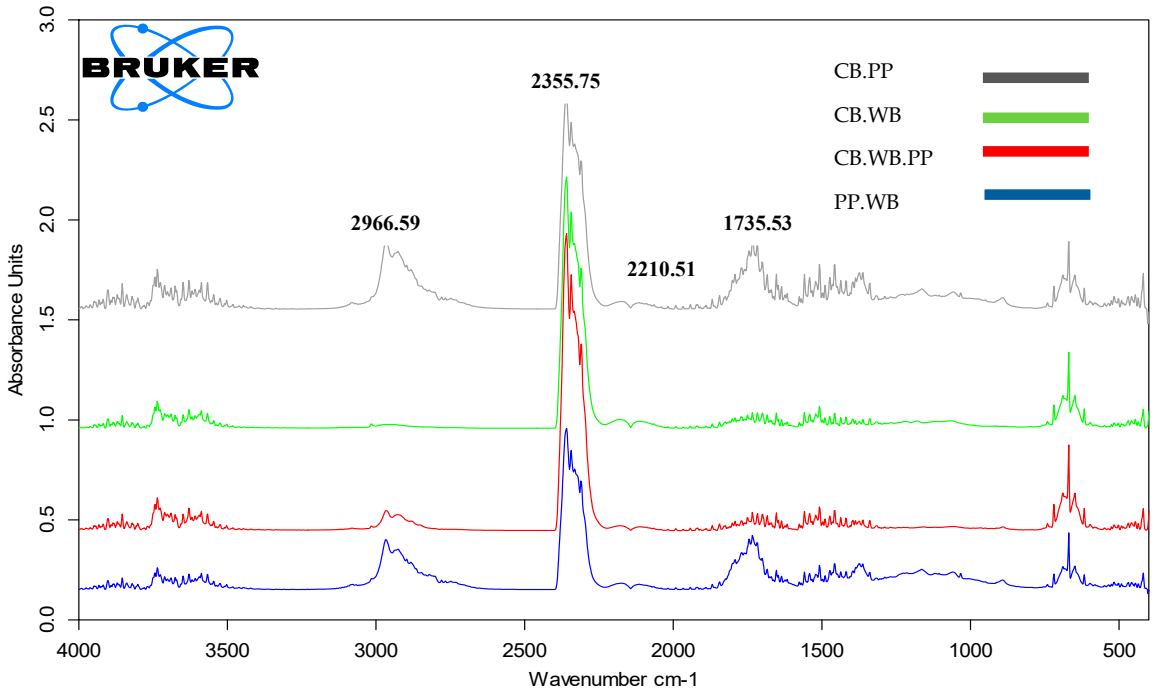


Figure S4. IR Spectrum for Evolved Gas in CB.PP (50:50), CB.WB (50:50), CB.WB.PP (1:1:1) and PP.WB (50:50)blends at 40 °C/min at 420 °C, 380 °C, 440 °C and 480 °C, respectively.