

## Supporting information

### Investigation of Binary and Ternary Systems of Ionic Liquids with Water and/or Supercritical CO<sub>2</sub> by In Situ Attenuated Total Reflection Infrared Spectroscopy

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CO<sub>2</sub> bands of the bending mode in dry (thin) and wet (bold) [bmim][BF<sub>4</sub>] after subtraction of IL signal of ATR-FTIR spectra at 40 °C while adding CO<sub>2</sub> at 20, 40, 60, 80, and 100 bar.

