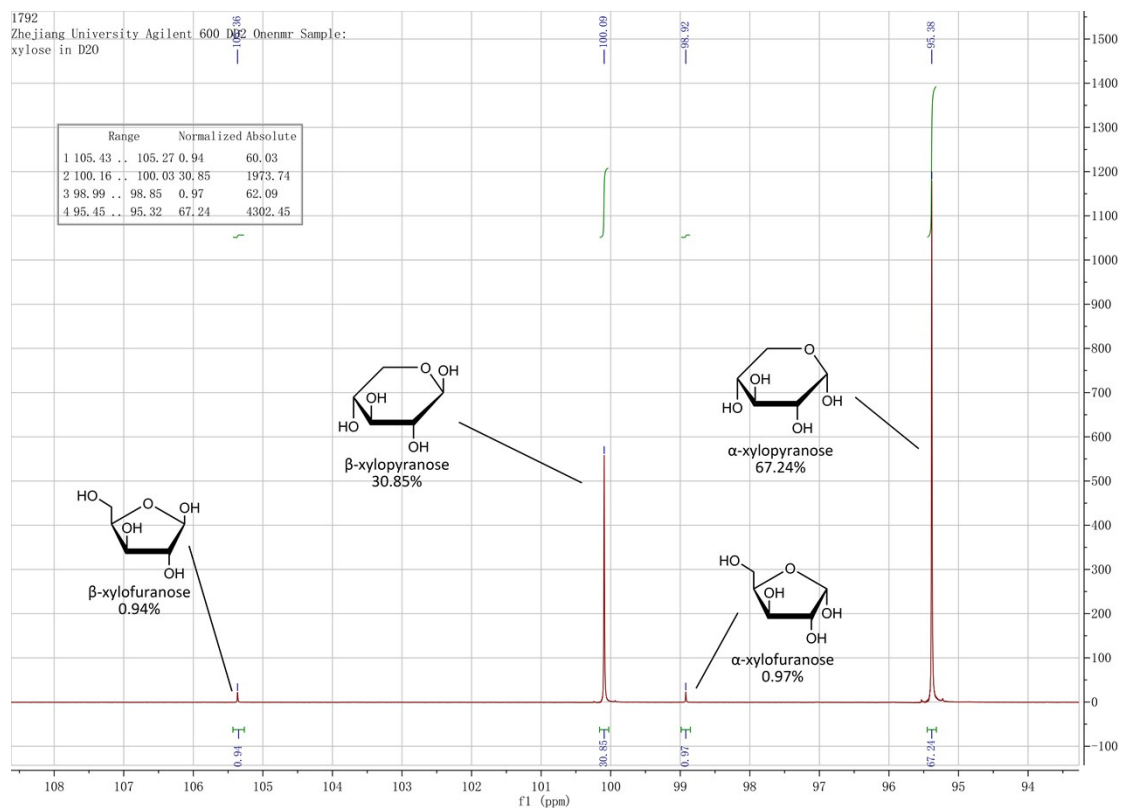
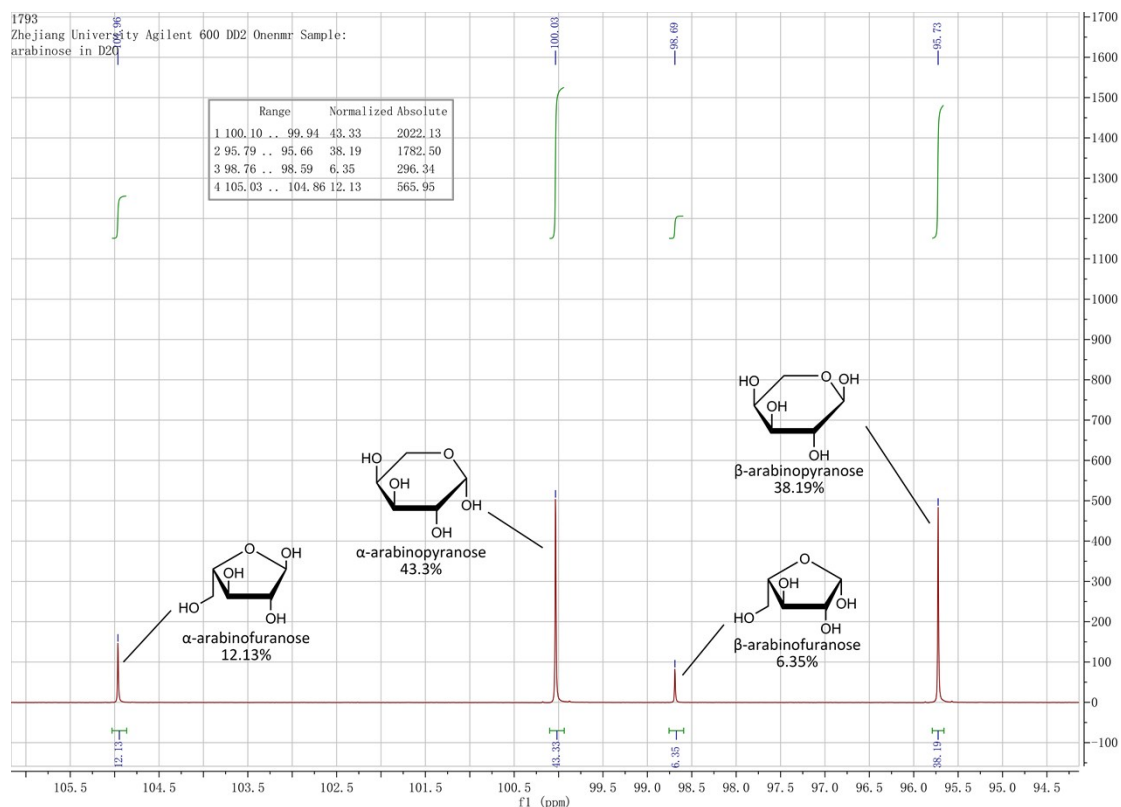


Electronic supplementary information

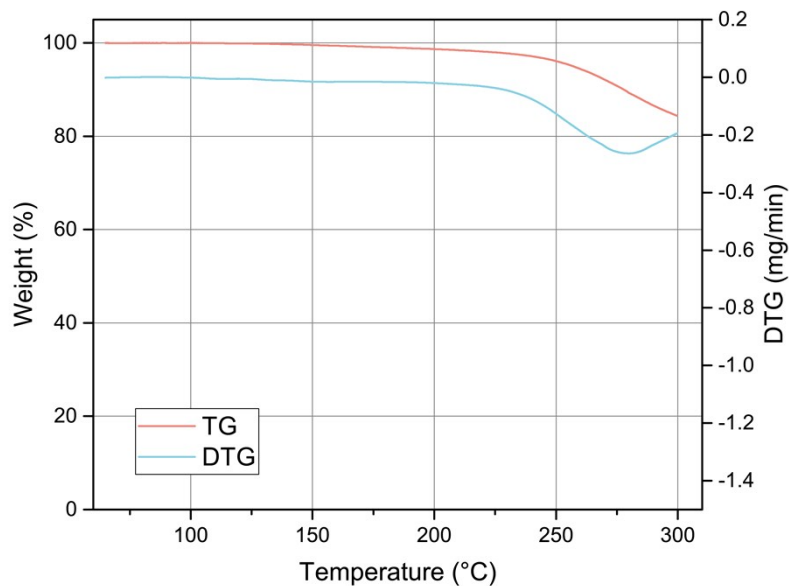
Figures



1. ^{13}C -NMR spectrum for D-[1- ^{13}C]xylose dissolved in GVL-water (4:1) solvent



2. ^{13}C -NMR spectrum for D-[1- ^{13}C]arabinose dissolved in GVL-water (4:1) solvent



3. TG and DTG curves for [bmim]Cl- AlCl_3

Thermogravimetric analysis for [bmim]Cl- AlCl_3

Thermogravimetric analysis was carried out in a thermogravimetric analyzer (STA 449F5, Netzsch, Germany) from 65 °C to 300 °C with a heating rate of 10 °C min⁻¹. Air with a flow rate of 50 mL min⁻¹ was used as the carrier gas. 10 mg sample was added into the crucible and was preheated to 110 °C and remained for 10 min in order to remove the moisture.