Electronic Supplementary Material (ESI) for New Journal of Chemistry.

Supplementary Information

Eco-friendly and efficient modification of native hemicelluloses *via click* reaction.

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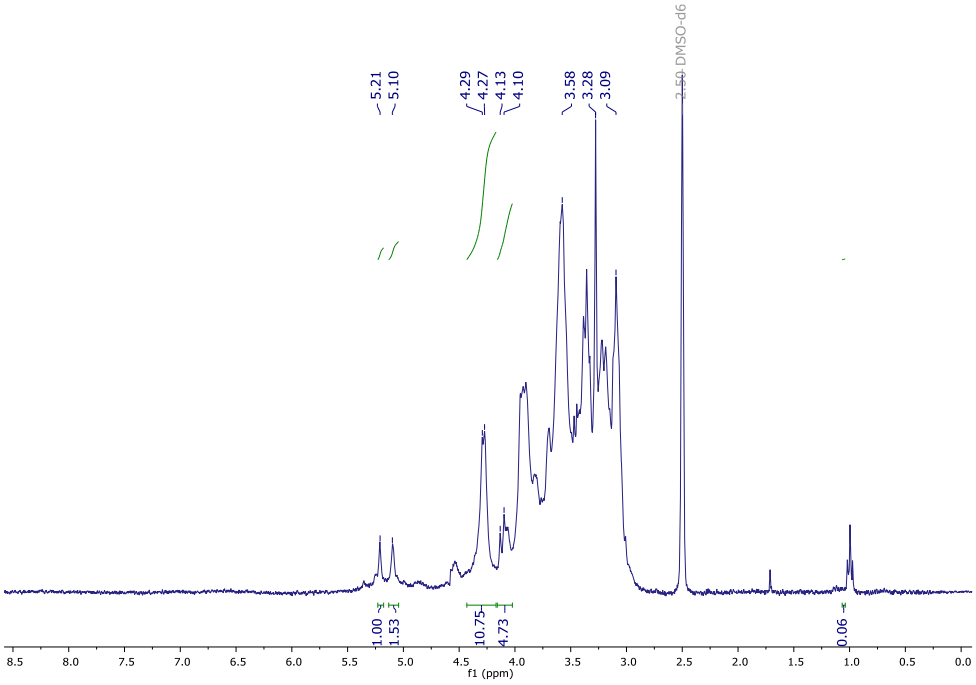
Figure S1. NMR spectrum of **(2)** HC-N_3



Scheme S1. Reaction click scheme between the azido groups of azidyzed-hemicellulose and phenylacetylene.

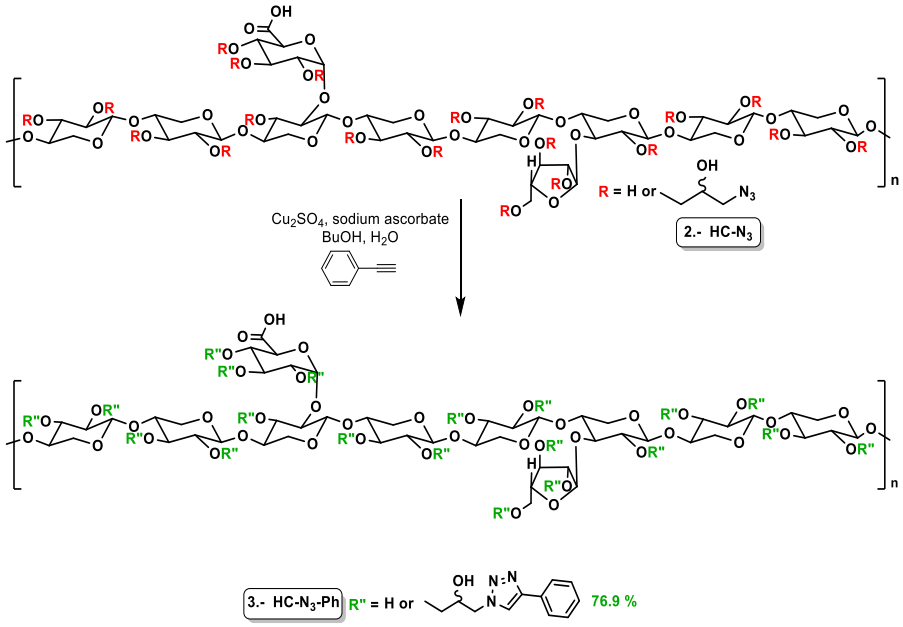
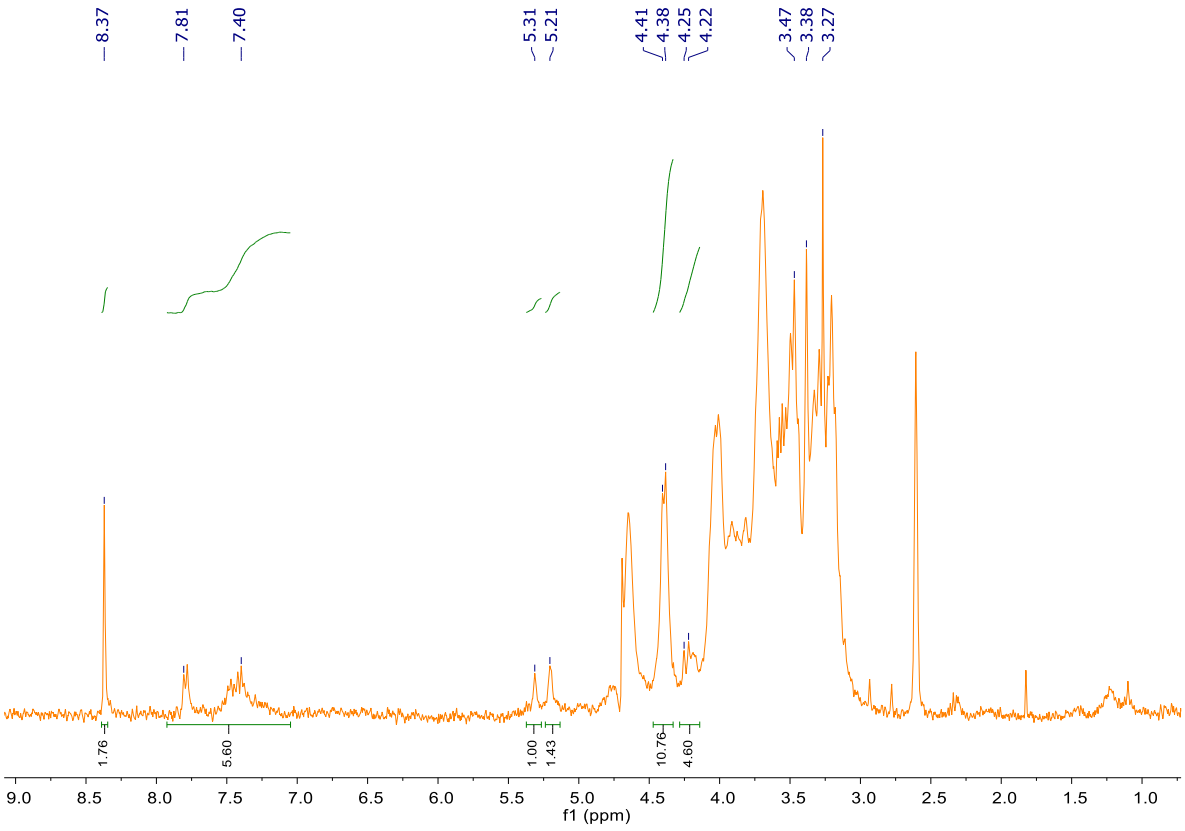


Figure S2. NMR spectrum of **(3)** HC-N_3-Ph



Scheme S2. Reaction click scheme between the azido groups of azidyzed-hemicellulose and 1-heptine.

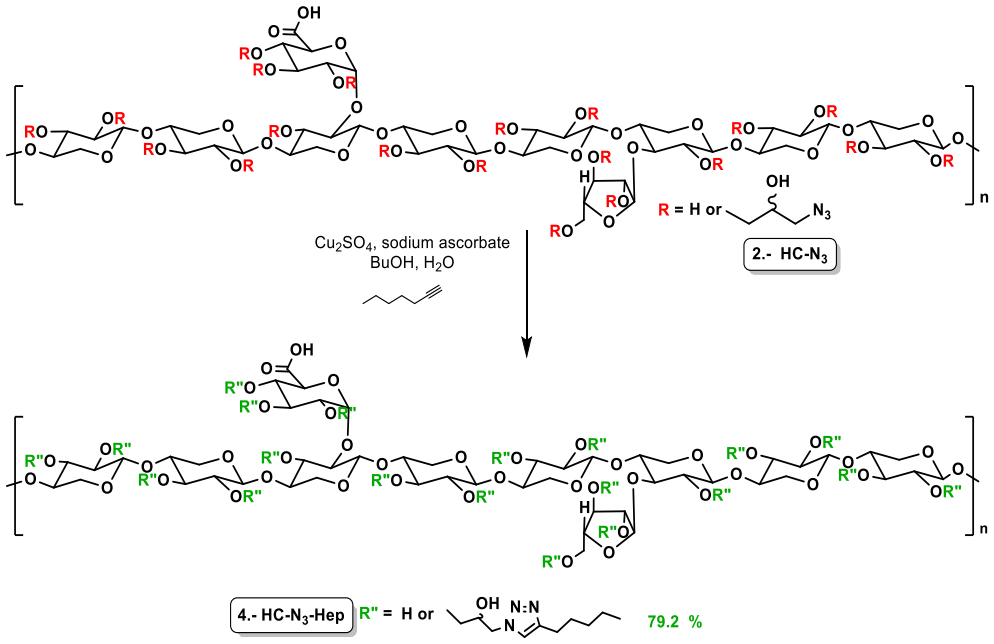
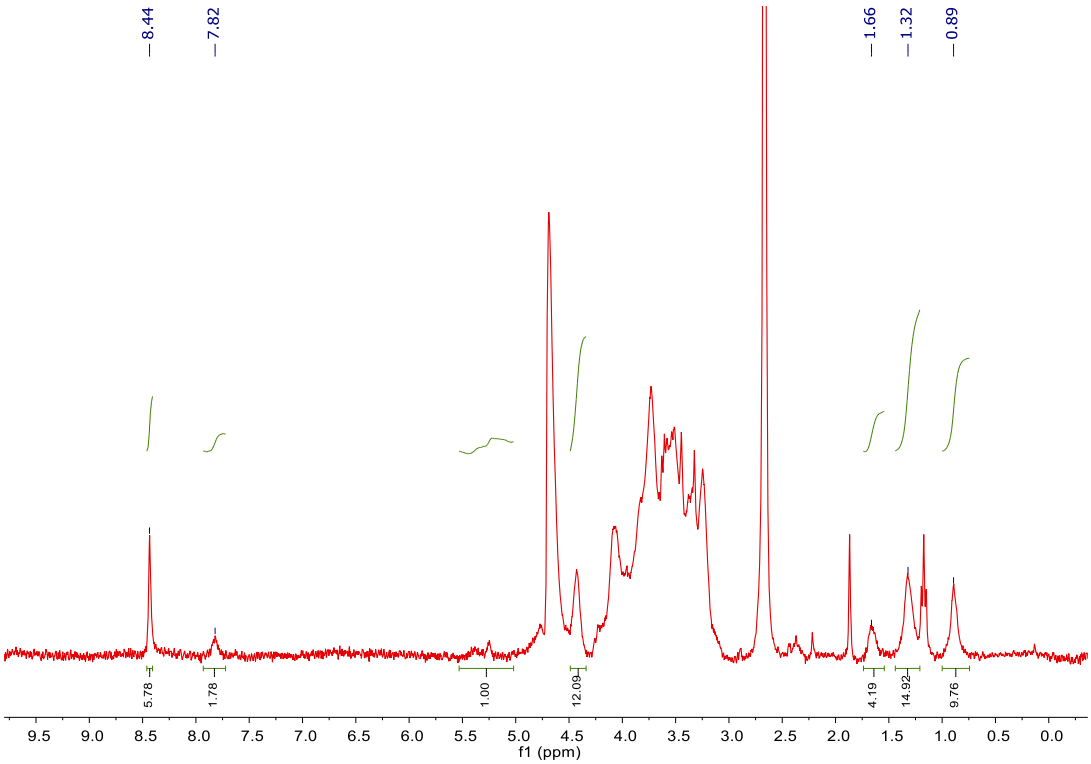


Figure S3. NMR spectrum of **(4)** HC-N_3-Hep



Scheme S3. Reaction click scheme between the azido groups of azidyzed-hemicellulose and flumioxazin.

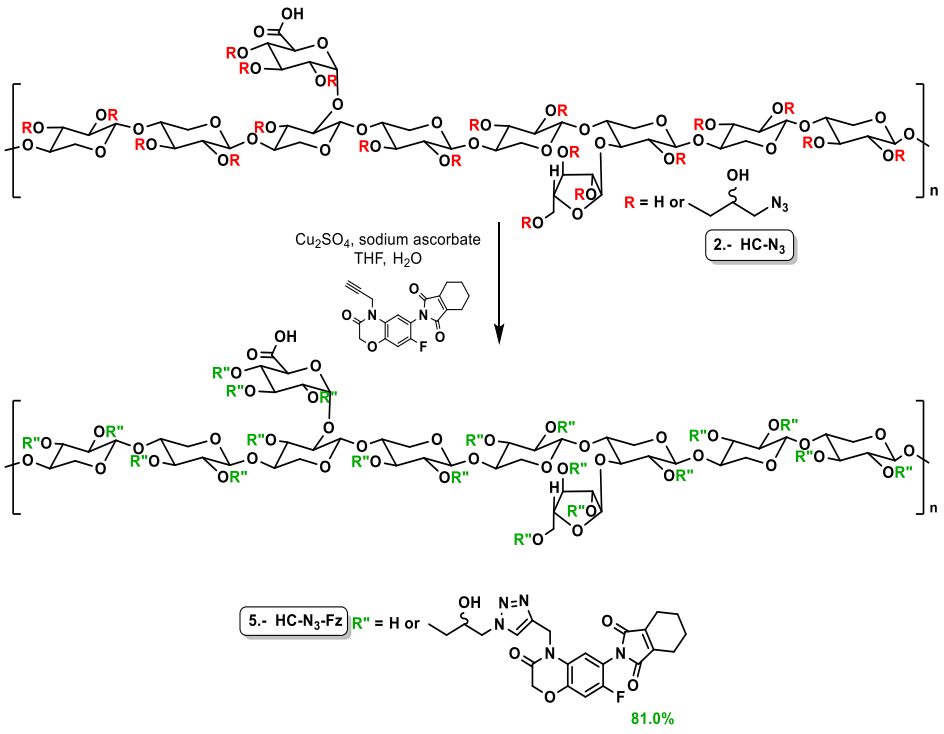
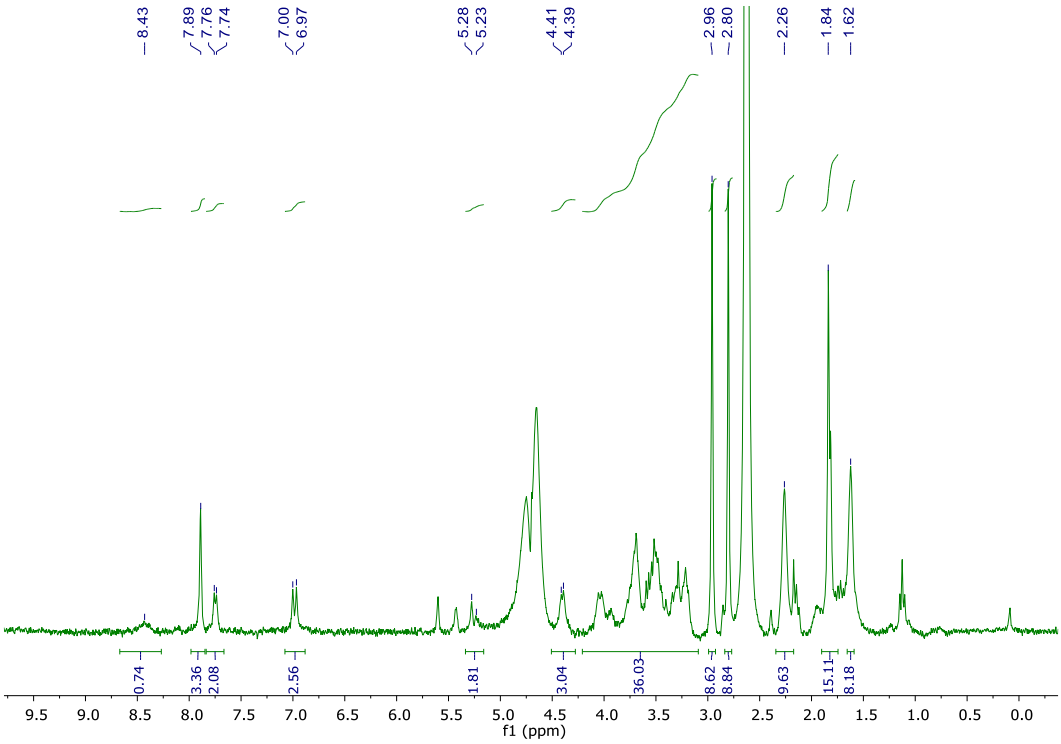


Figure S4. NMR spectrum of **(5)** HC-N_3-Fz



Scheme S4. Reaction click scheme between the azido groups of azidyzed-hemicellulose and bis-O-propargyl-tri(ethylene glycol).

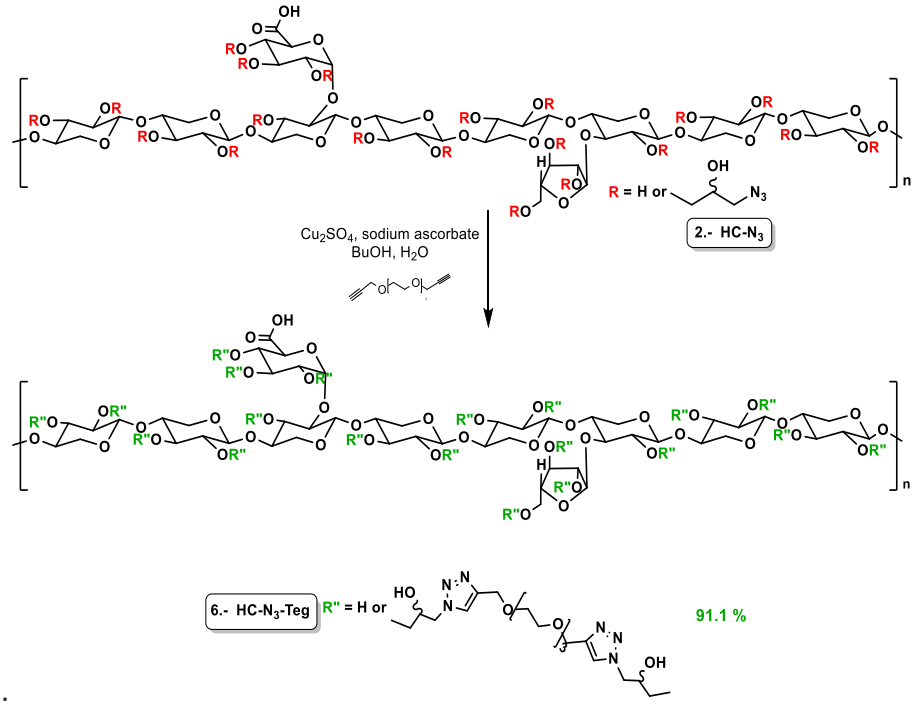


Figure S5. NMR spectrum of **(6)** HC-N_3-Teg

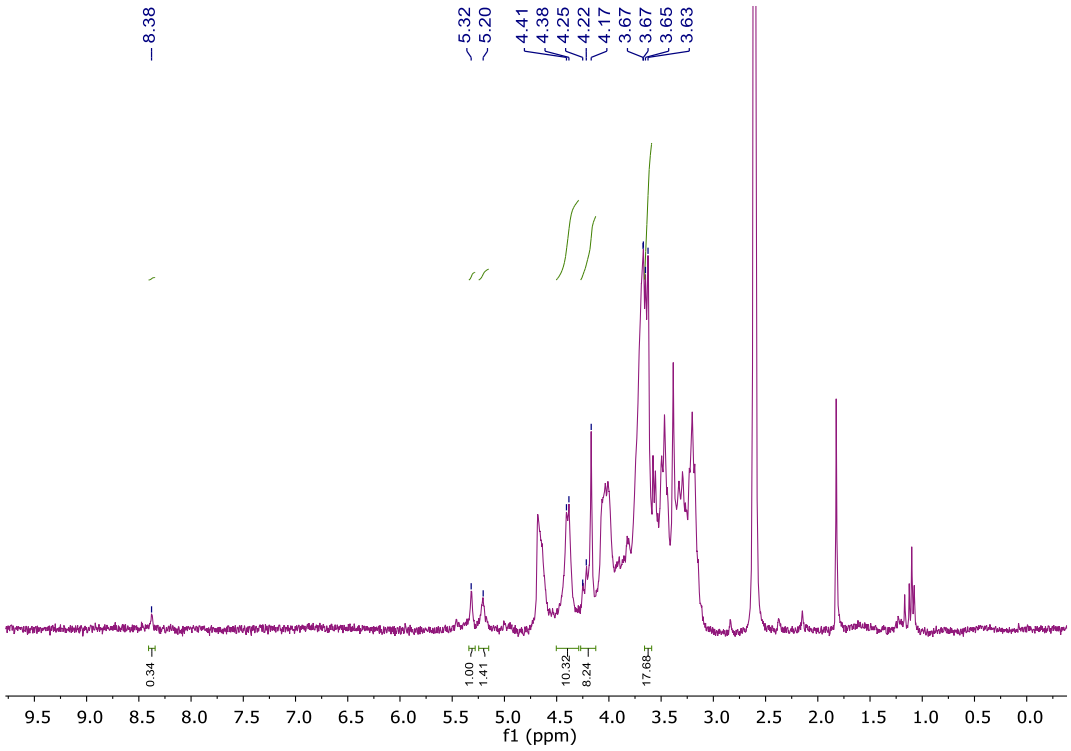


Figure S6. DTG thermogram of hemicellulose and modified hemicelluloses.

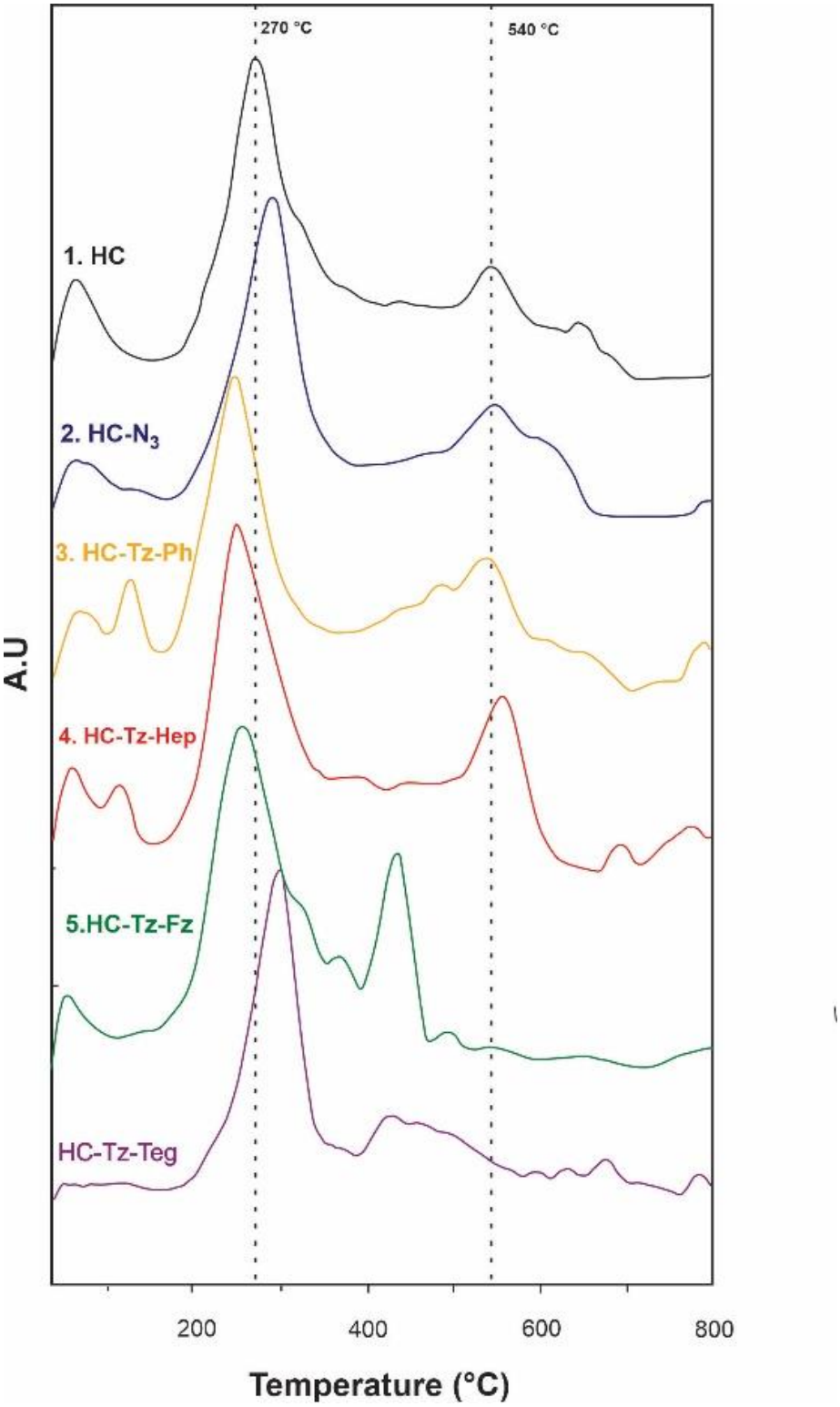


Figure S7. Calibration curve using different percentage of sodium azide in hemicellulose using FTIR.