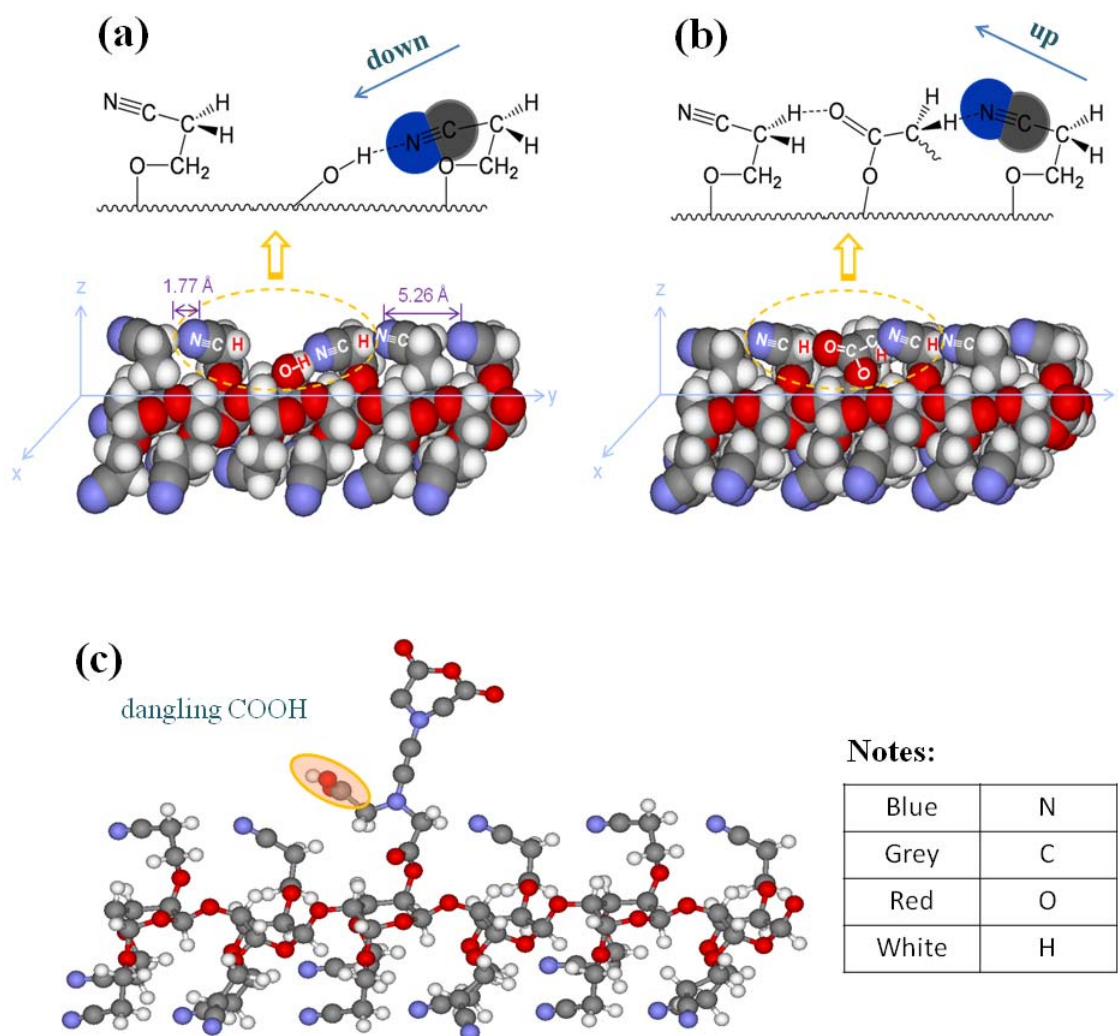
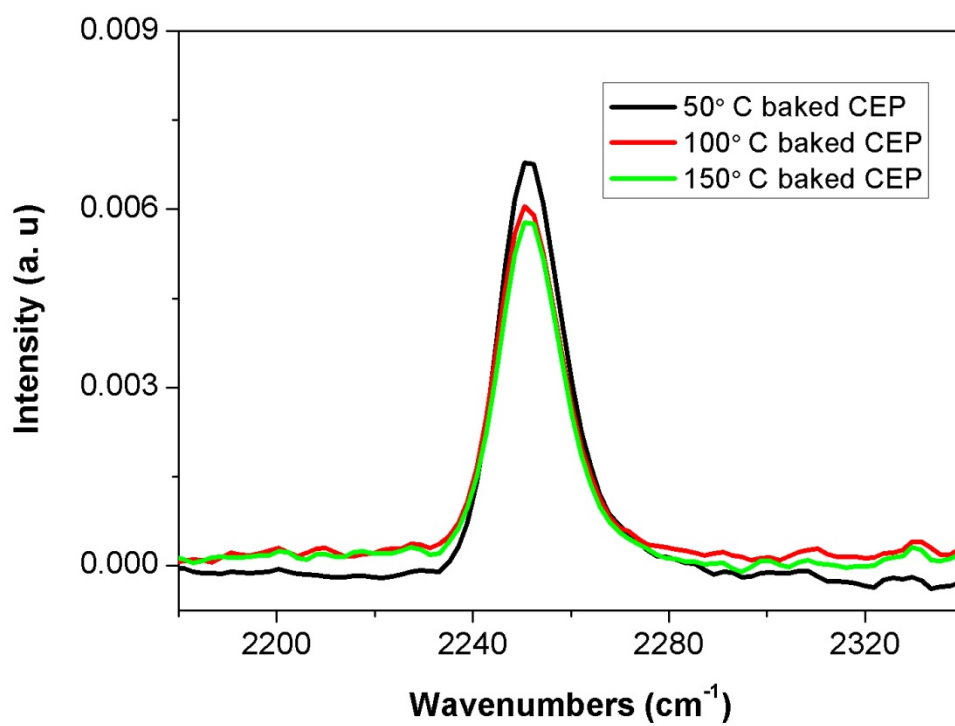


## Supplementary Information



**Electronic supplementary information A.** Simulation of the CEP-based polymer chains (a) CEP, (b) CEPSCL and (c) CEPEDT(one anhydride group of EDT reacted).



**Electronic supplementary information B.** FT-IR of CEP films baked at different temperatures.