Supplementary Materials

Table. S1. GC/MS operational parameters applied to Py-GC/MS analysis in this study.

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GC	Inlet	300 °C, split 300:1
	Oven	from 40 $^{\circ}\text{C}$ to 320 $^{\circ}\text{C}$ (1 minute hole) at 20 $^{\circ}\text{C/min}$
	Carrier gas	1 mL/min (constant flow)
	MS interface	300 °C
MS	Scan	m/z 32 \sim 400, 3.9 scans/sec

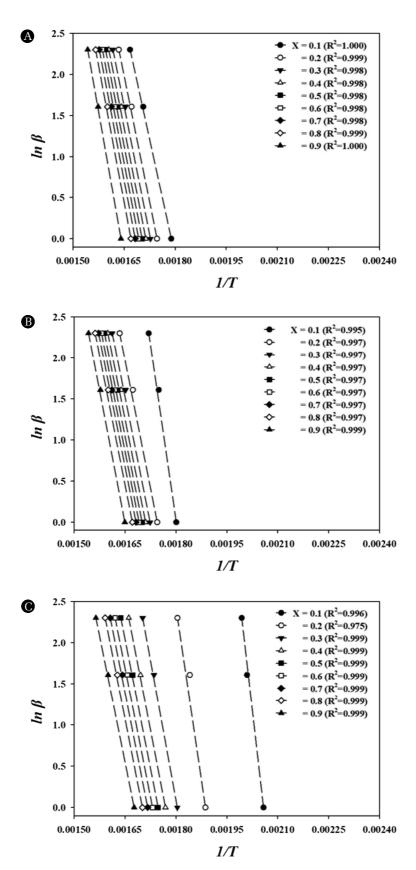


Fig. S1. Plots In β and 1/T at each conversion rate obtained from the TG analysis: (A) CA, (B) UTF, (C) WTF.