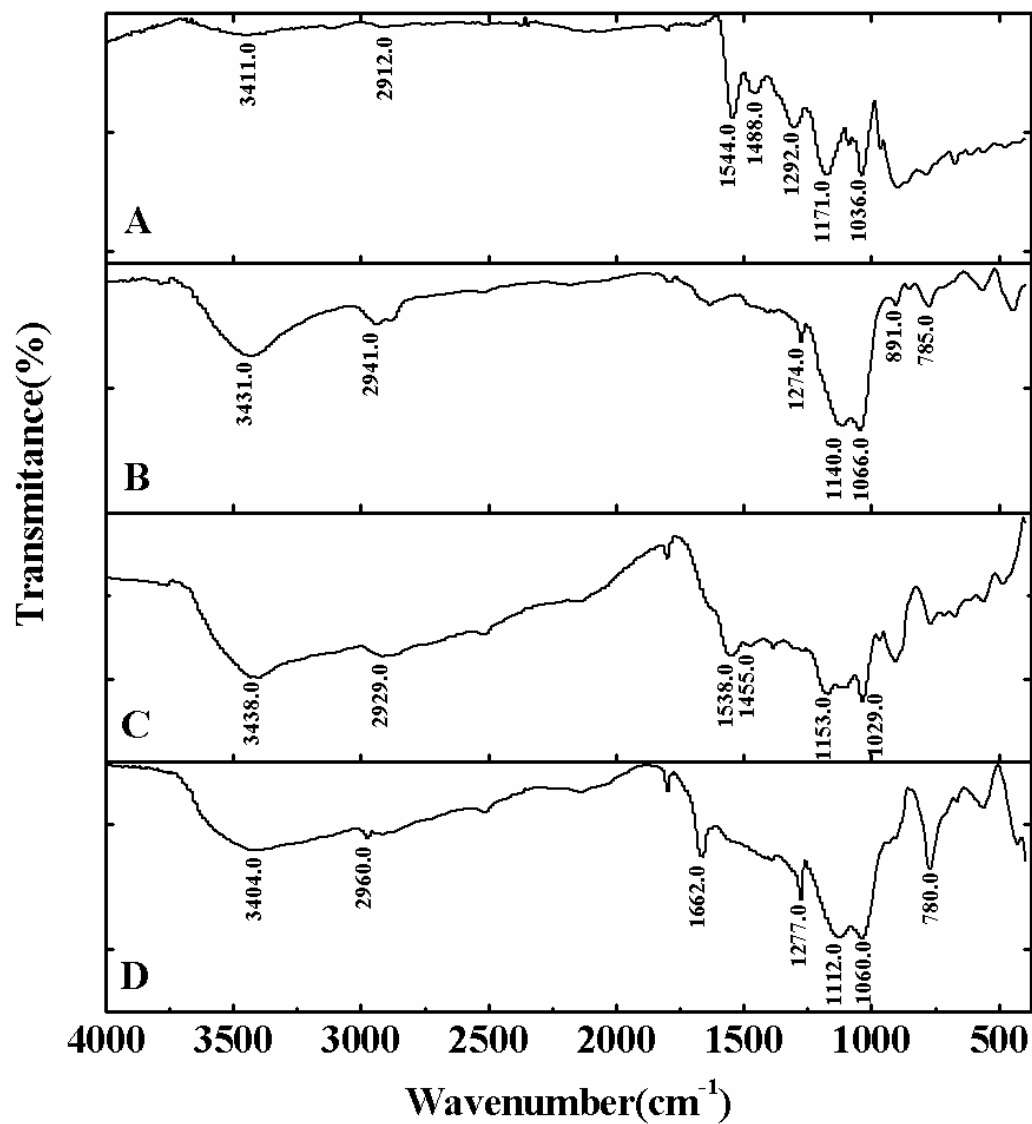
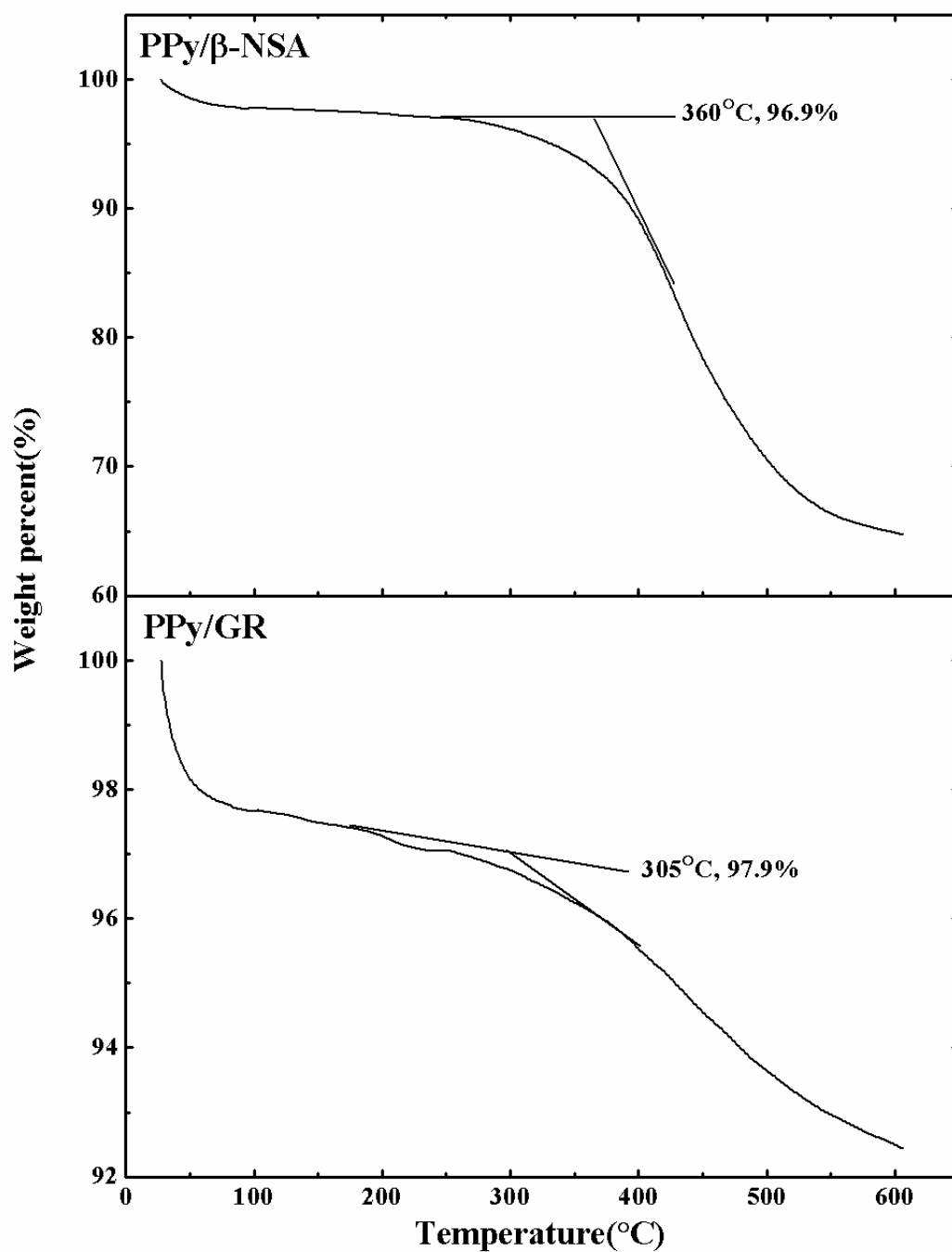


## Supplementary Material



**Fig. 1s** Fourier IR absorption spectra of PPy/ $\beta$ -NSA (A: before sol-gel reaction, B: after sol-gel reaction) and PPy/GR (C: before sol-gel reaction, D: after sol-gel reaction) SPME fiber coating



9

10 **Fig. 2s** Thermogravimetric analysis curves for PPy/β-NSA and PPy/GR SPME fiber

11 coating