

Supporting Information

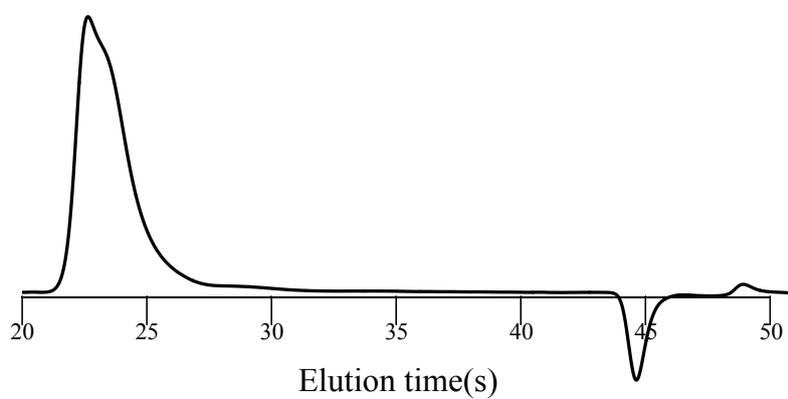


Figure S1. SEC profile of polyPPS ($M_n = 206,700$, $M_w/M_n = 1.73$)

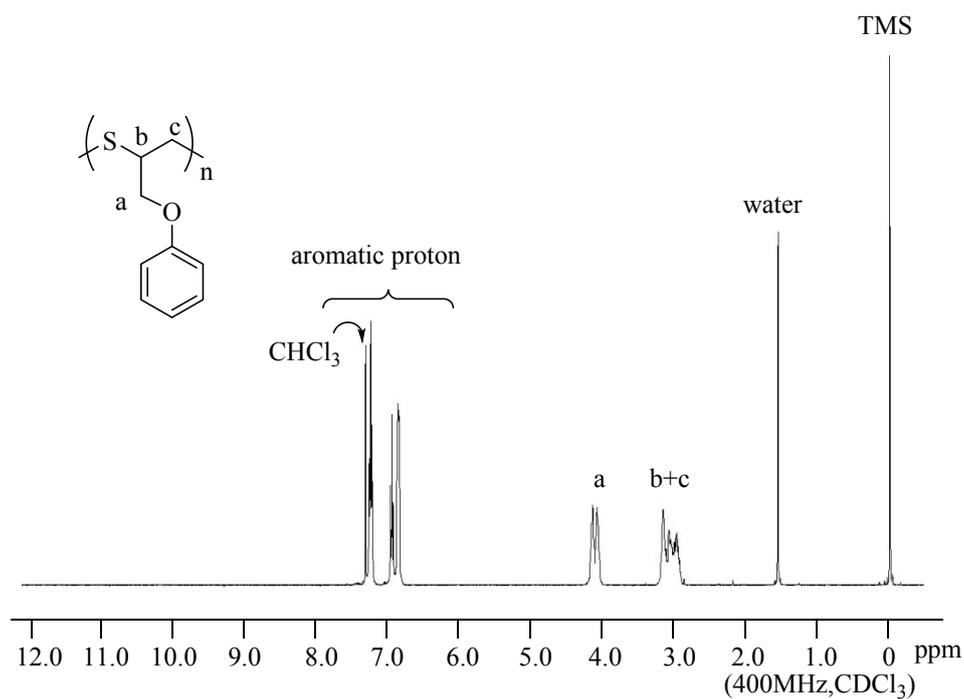


Figure S2. ^1H NMR spectrum of polyPPS ($M_n = 206,700$, $M_w/M_n = 1.73$)

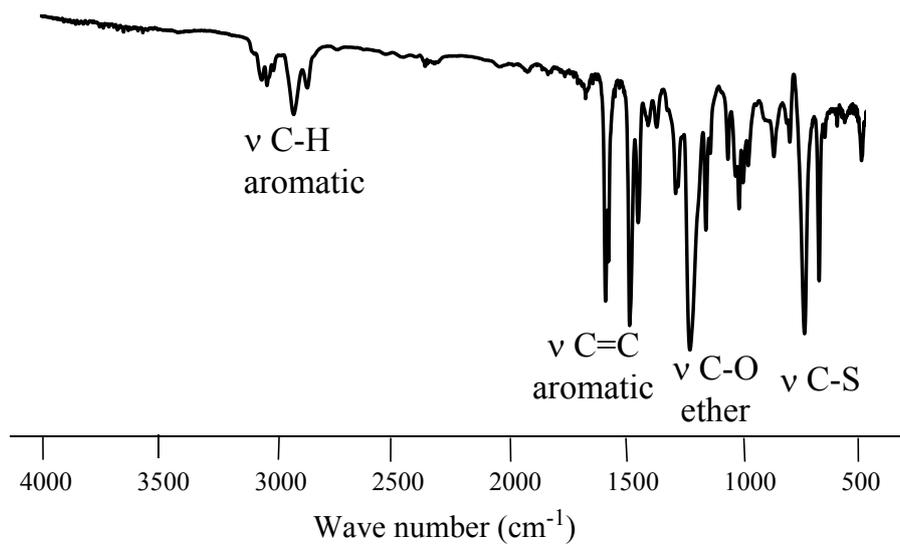


Figure S3. IR Spectrum of polyPPS ($M_n = 206,700$, $M_w/M_n = 1.73$)

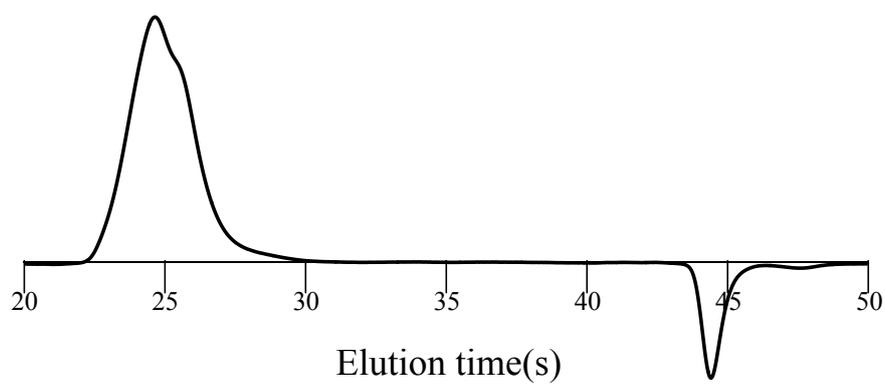


Figure S4. SEC profile of polyPPS ($M_n = 75,860$, $M_w/M_n = 1.54$)

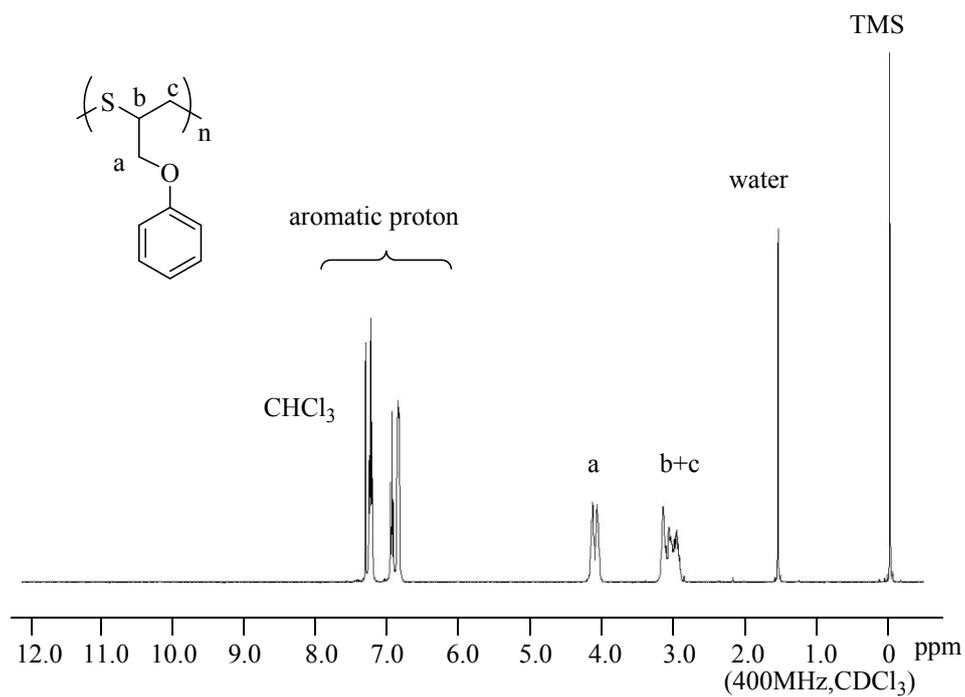


Figure S5. ^1H NMR spectrum of polyPPS ($M_n = 75,860$, $M_w/M_n = 1.54$)

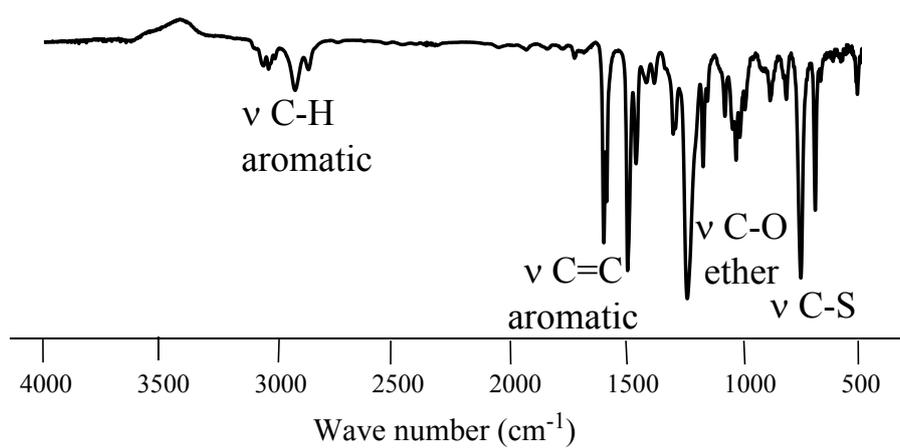


Figure S6. IR spectrum of polyPPS ($M_n = 75,860$, $M_w/M_n = 1.54$)

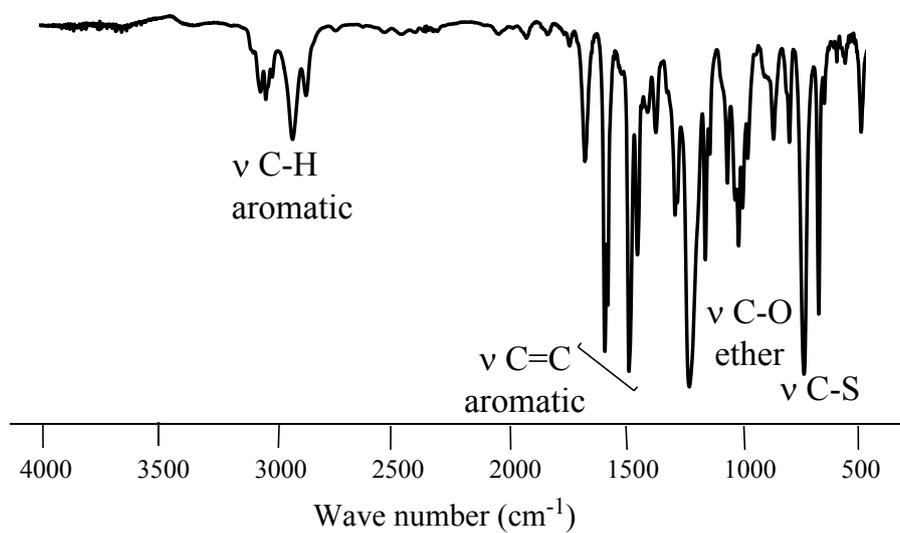


Figure S7. IR spectrum of TZD-c-poly(PPS)₁₀ ($M_n = 3,560$, $M_w/M_n = 1.13$)

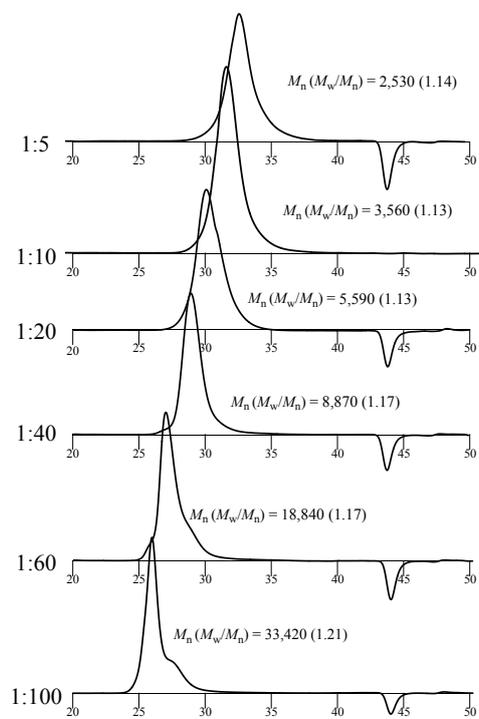


Figure S8. SEC profiles of the TZD(A)-*c*-poly(PPS)_n ($n = 5 \sim 100$).

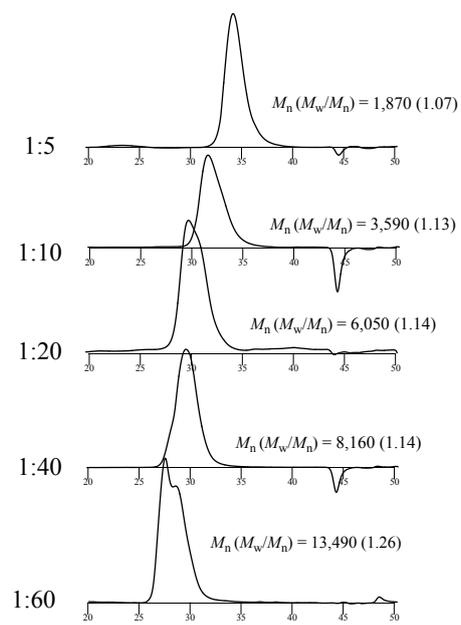


Figure S9. SEC profiles of the TZD(E)-*c*-poly(PPS)_{*n*} (*n* = 5 ~ 60).

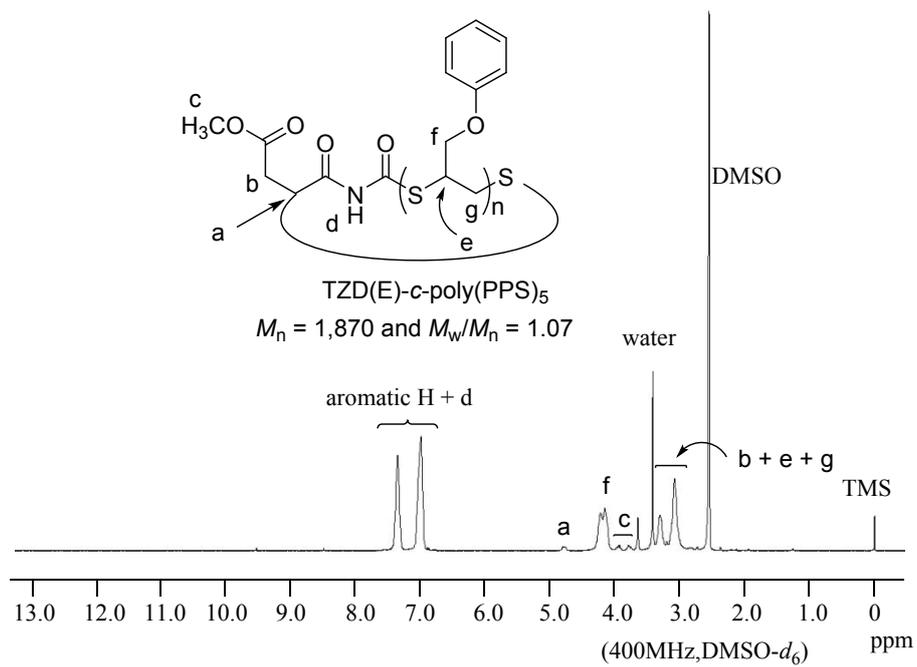


Figure S10. ^1H NMR spectrum of TZD(E)-*c*-poly(PPS) $_5$ ($M_n = 1,870$, $M_w/M_n = 1.07$).

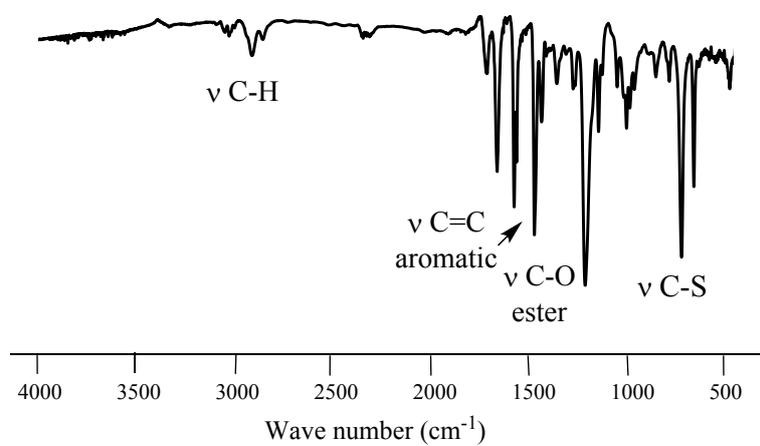


Figure S11. IR Spectrum of TZD(E)-*c*-poly(PPS)₅. ($M_n = 1,870$, $M_w/M_n = 1.07$)

Data of the MALDI TOF Mass spectra of TZD(E)-c-poly(PPS)₅

cyclic product	<i>m/z</i> (calcd)	<i>m/z</i> (found)
P ₁ : TZD(E) + 3 PPS	(C ₃₃ H ₃₇ NO ₇ S ₄ + Na) : 687.15	686.77
P ₂ : TZD(E) + 4 PPS	(C ₄₂ H ₄₇ NO ₈ S ₅ + Na) : 876.18	876.40
P ₃ : TZD(E) + 5 PPS	(C ₅₁ H ₅₇ NO ₉ S ₆ + Na) : 1042.23	1042.87
P ₄ : TZD(E) + 6 PPS	(C ₆₀ H ₆₇ NO ₁₀ S ₇ + Na) : 1208.27	1208.60
P ₅ : TZD(E) + 7 PPS	(C ₆₉ H ₇₇ NO ₁₁ S ₈ + Na) : 1375.32	1374.59
P ₆ : TZD(E) + 8 PPS	(C ₇₈ H ₈₇ NO ₁₂ S ₉ + Na) : 1540.36	1540.64
P ₇ : TZD(E) + 9 PPS	(C ₈₇ H ₉₇ NO ₁₃ S ₁₀ + Na) : 1706.41	1706.72

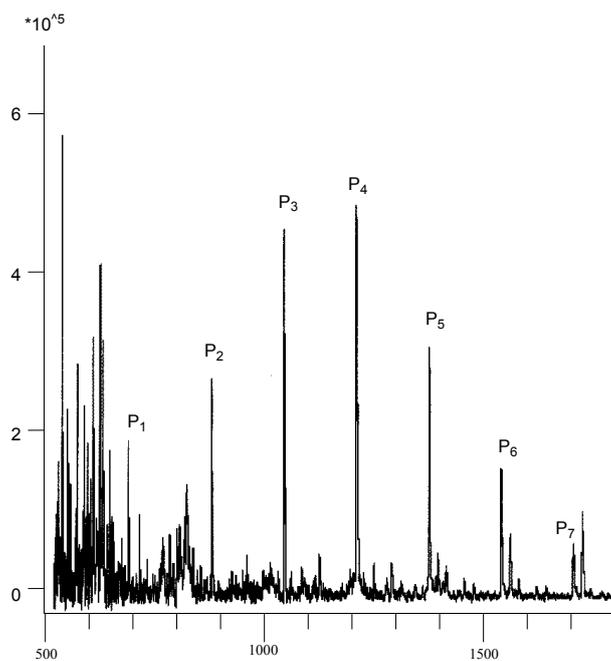


Figure S12. MALDI TOF Mass spectra of T TZD(E)-c-poly(PPS)₅ ($M_n = 1,870$ and $M_w/M_n = 1.07$) (Run1 in Table 2).

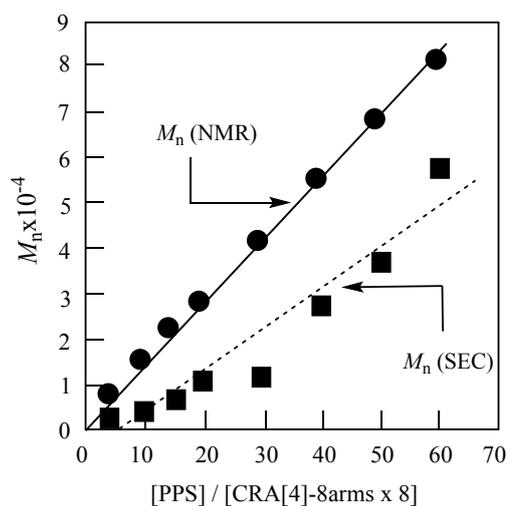
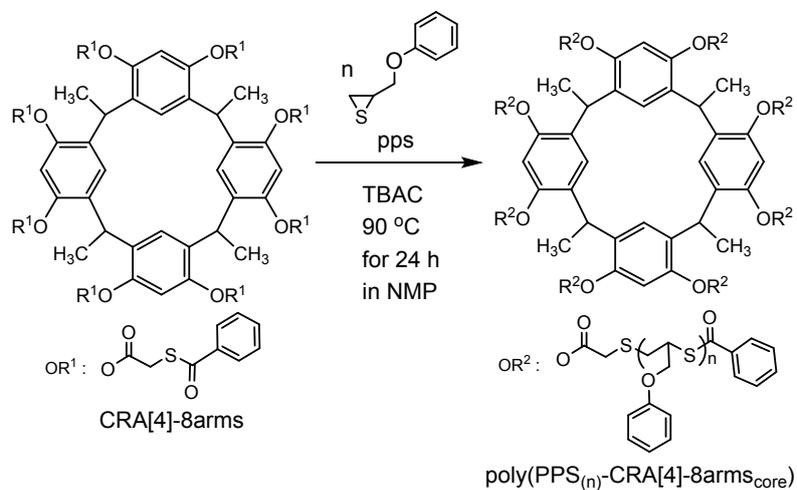


Figure S13. The relationships between $M_n(\text{SEC})$ estimated by SEC, $M_n(\text{NMR})$ calculated from ^1H NMR data and feed ratios of $[\text{PPS}] / [(\text{CRA[4]-8arms}) \times 8]$ in the continuous insertion reaction of PPS into CRA[4]-8arms. Filled squares : $M_n(\text{SEC})$, filled circles : $M_n(\text{NMR})$.³⁶⁾

