

Supporting Information

Partially Bio-based Aromatic Poly(ether sulfone)s Bearing Pendant Furyl Groups: Synthesis, Characterization and Thermo-reversible Cross-linking with a Bismaleimide

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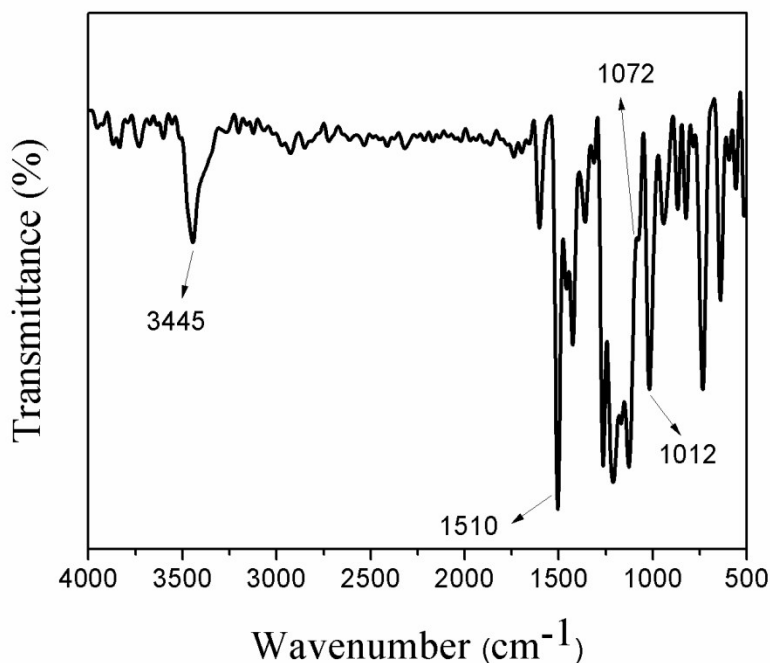


Fig. S1. FT-IR spectrum of 4, 4'-(furan-2-ylmethylene)bis(2-methoxyphenol).

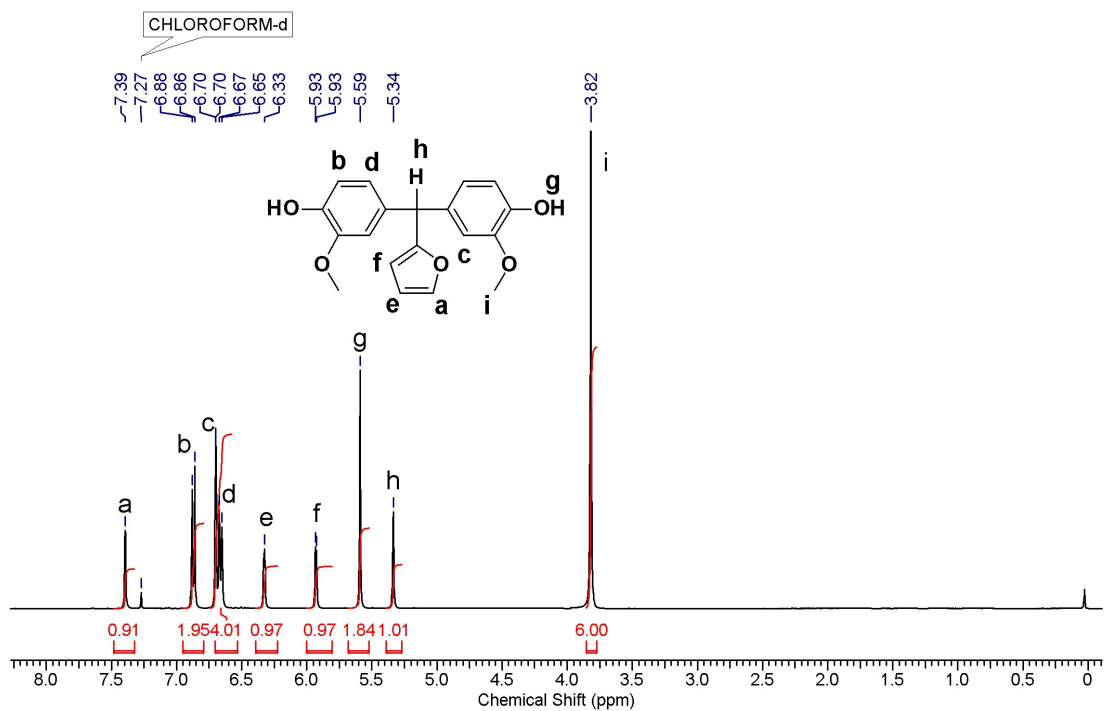


Fig. S2. ¹H NMR spectrum (in CDCl₃) of 4, 4'-(furan-2-ylmethylene)bis(2-methoxyphenol).

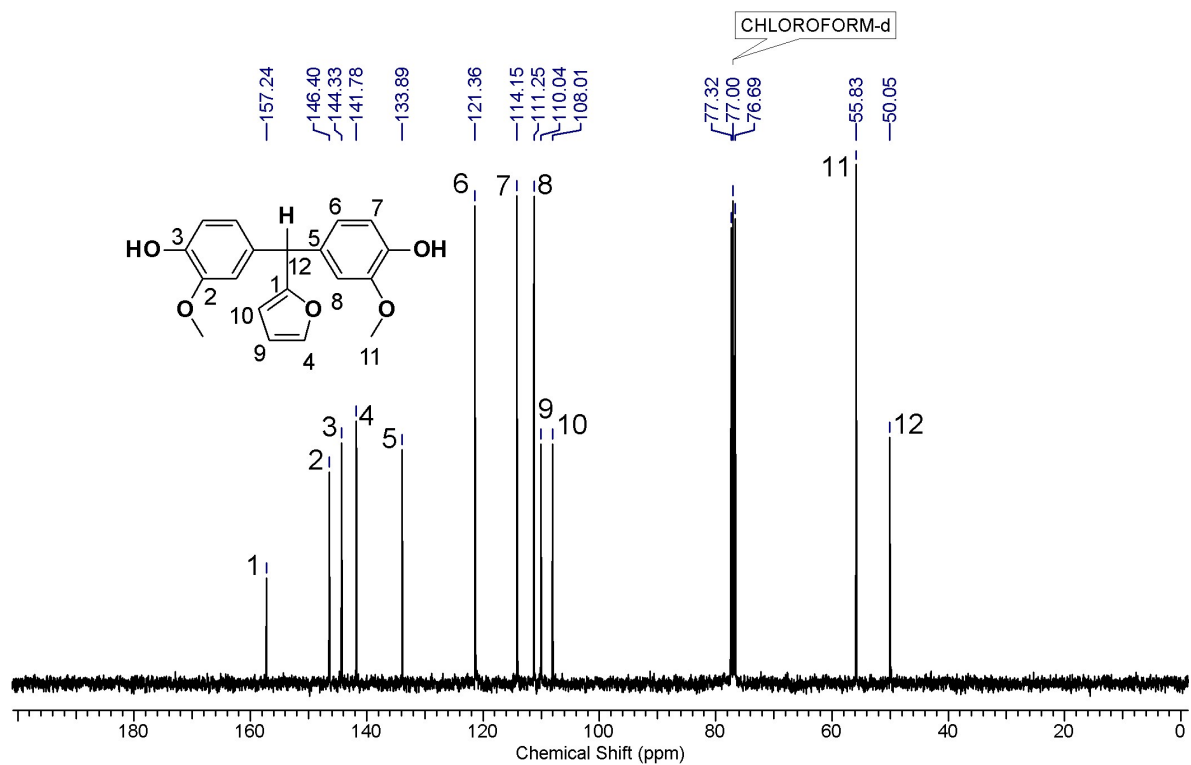


Fig. S3. ¹³C NMR spectrum (in CDCl₃) of 4, 4'-(furan-2-ylmethylene)bis(2-methoxyphenol).

BP-F2 #98 RT: 0.43 AV: 1 NL: 4.95E8
T: FTMS + p ESI Full ms [100.00-1500.00]

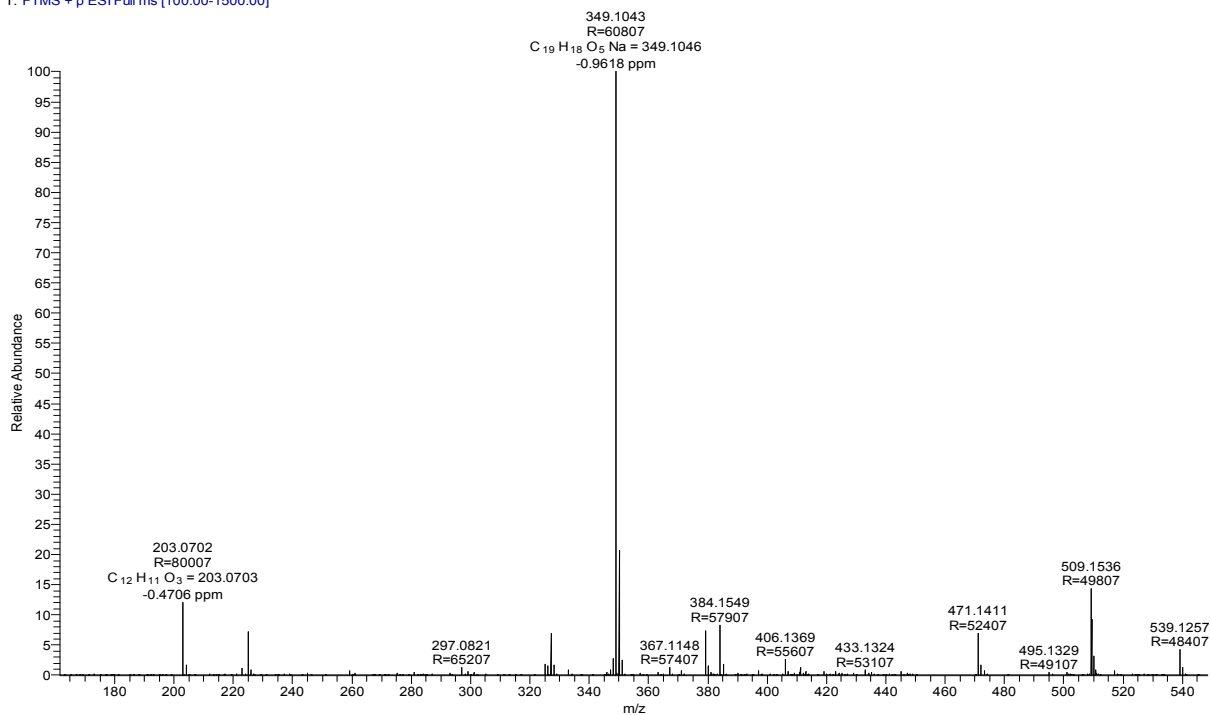


Fig. S4. HRMS of 4, 4'-(furan-2-ylmethylene)bis(2-methoxyphenol).

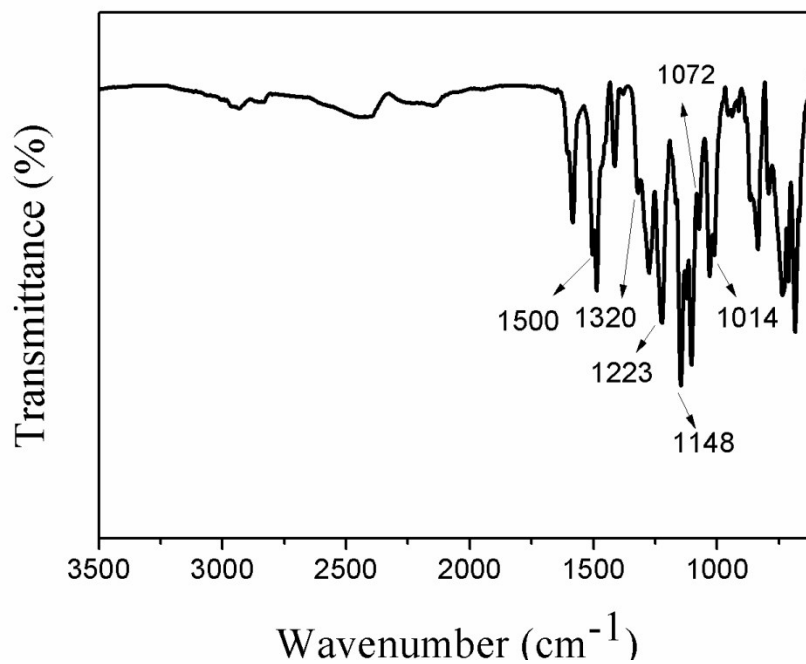


Fig. S5. FT-IR spectrum of poly(ether sulfone) PSU-1.

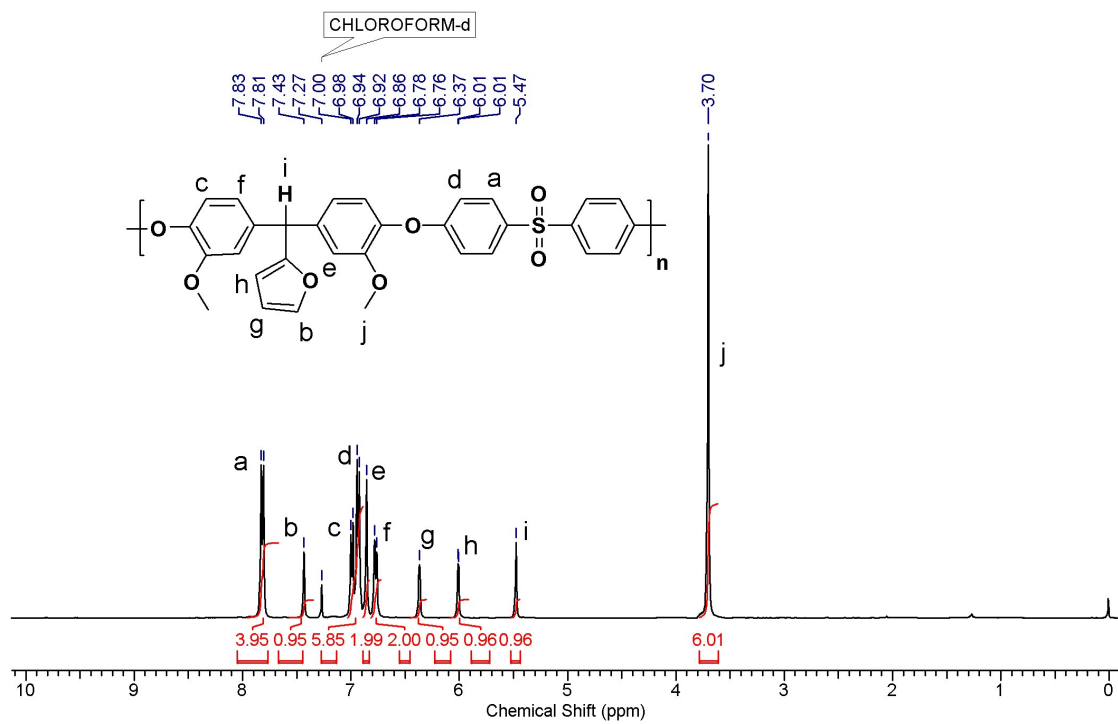


Fig. S6. ^1H NMR spectrum (in CDCl_3) of poly(ether sulfone) PSU-1.

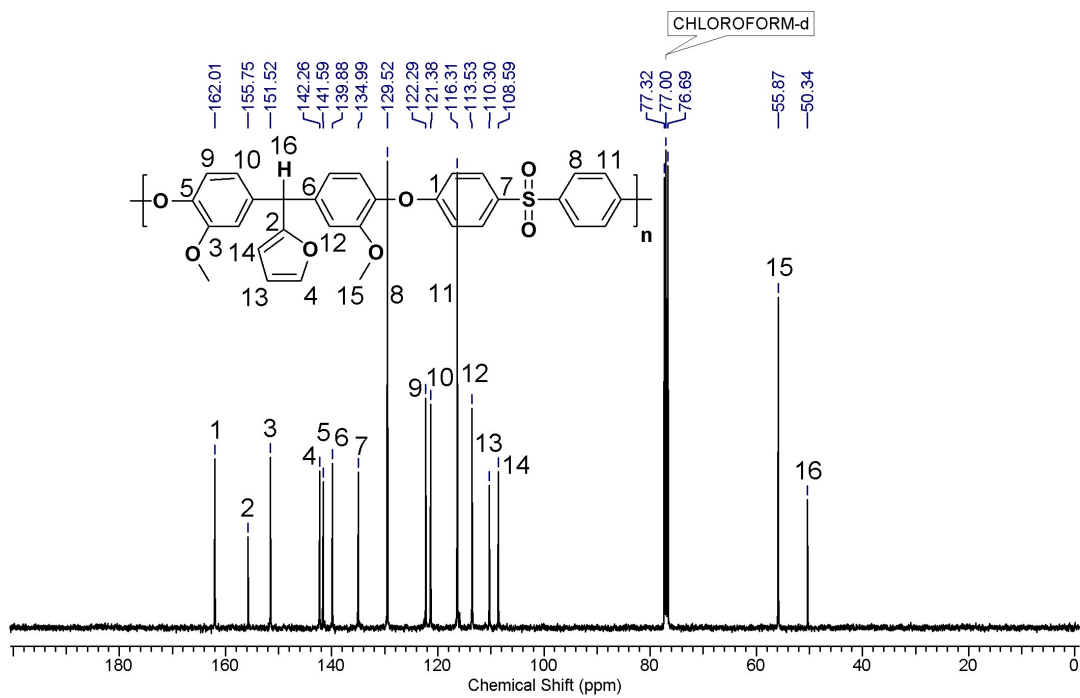


Fig. S7. ^{13}C NMR spectrum (in CDCl_3) of poly(ether sulfone) PSU-1.

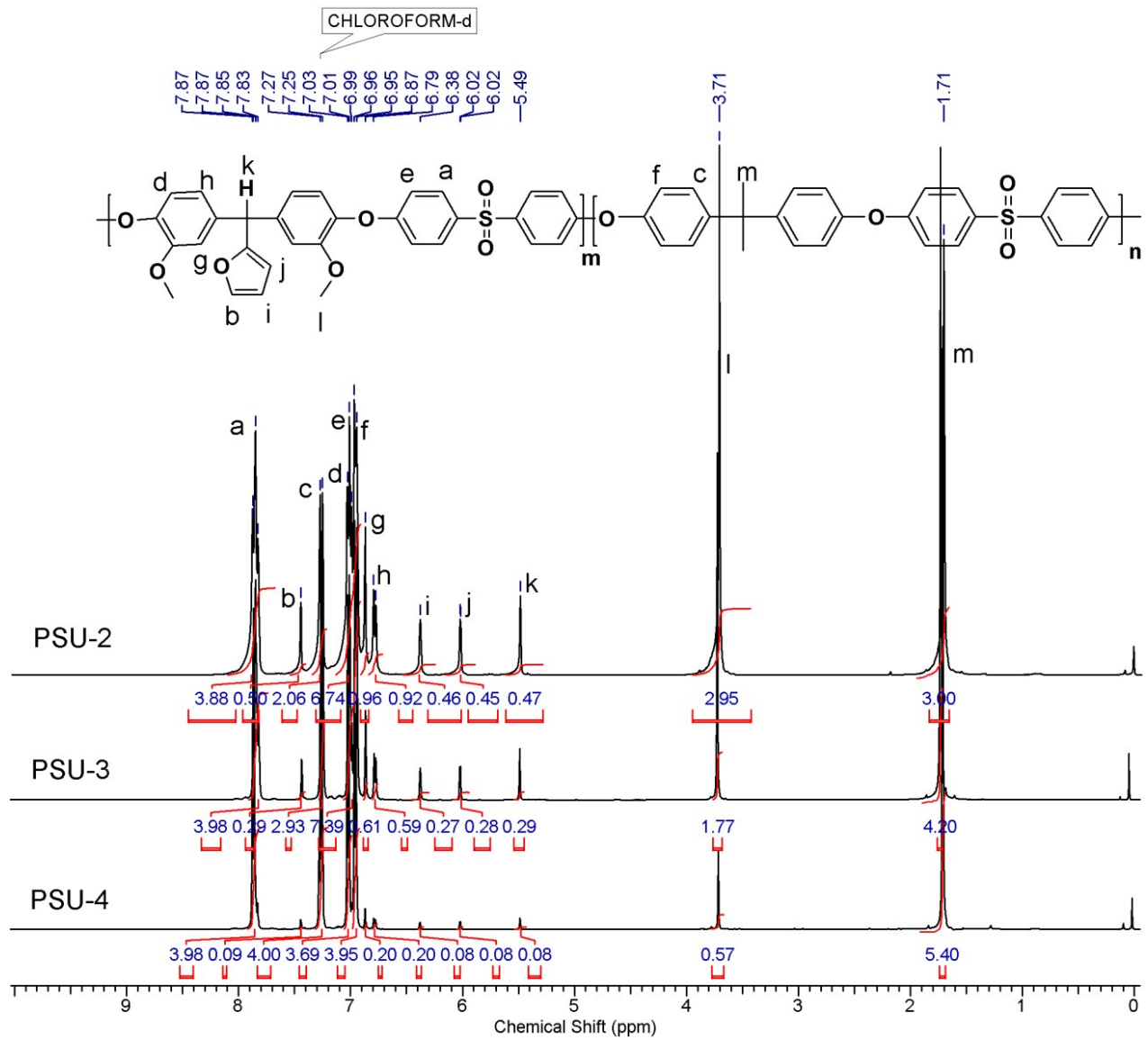


Fig. S8. ^1H NMR spectra (in CDCl_3) of copoly(ether sulfone)s.

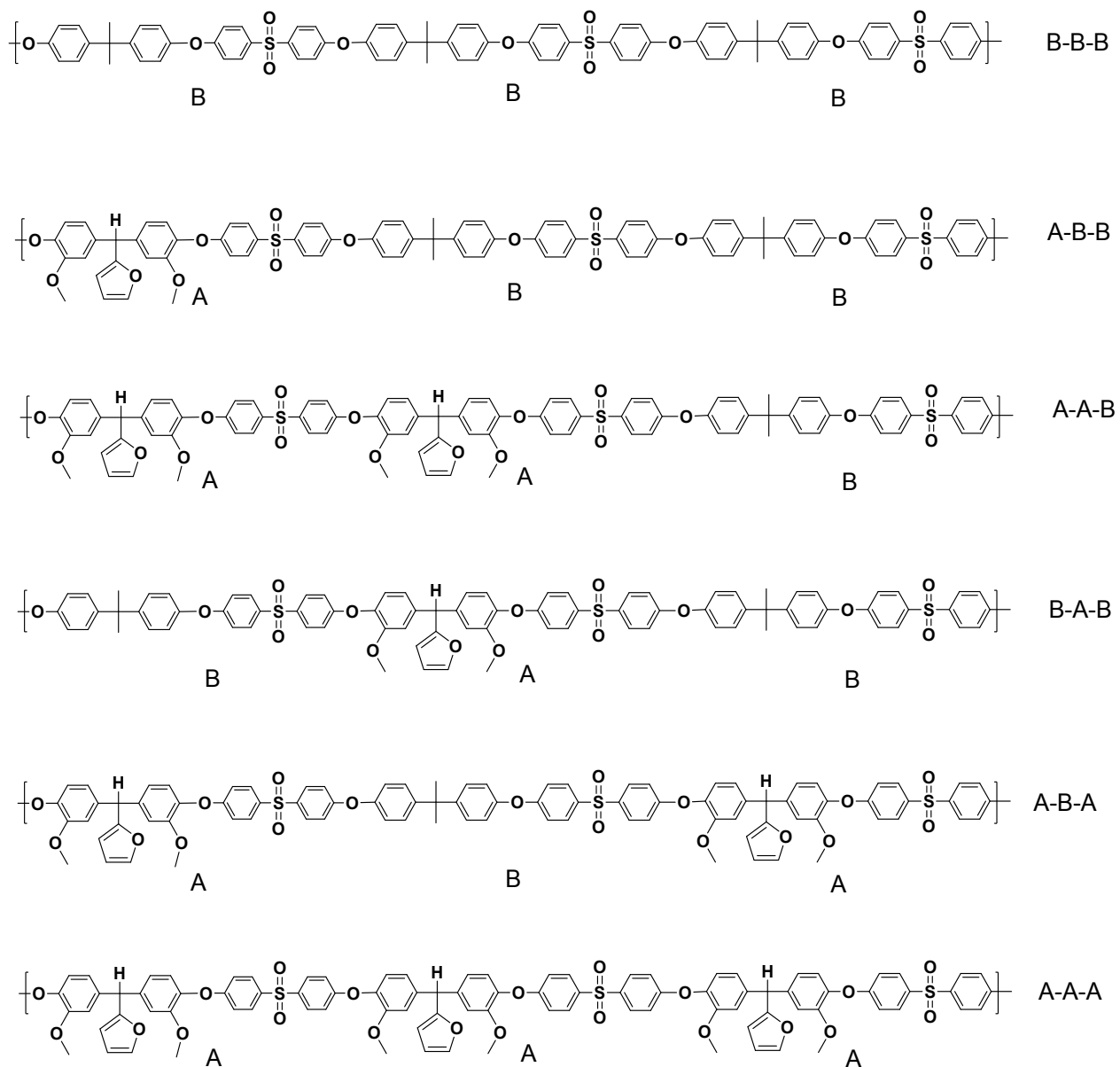


Fig. S9. Possible arrangements of BPF and BPA units in copoly(ether sulfone)s.

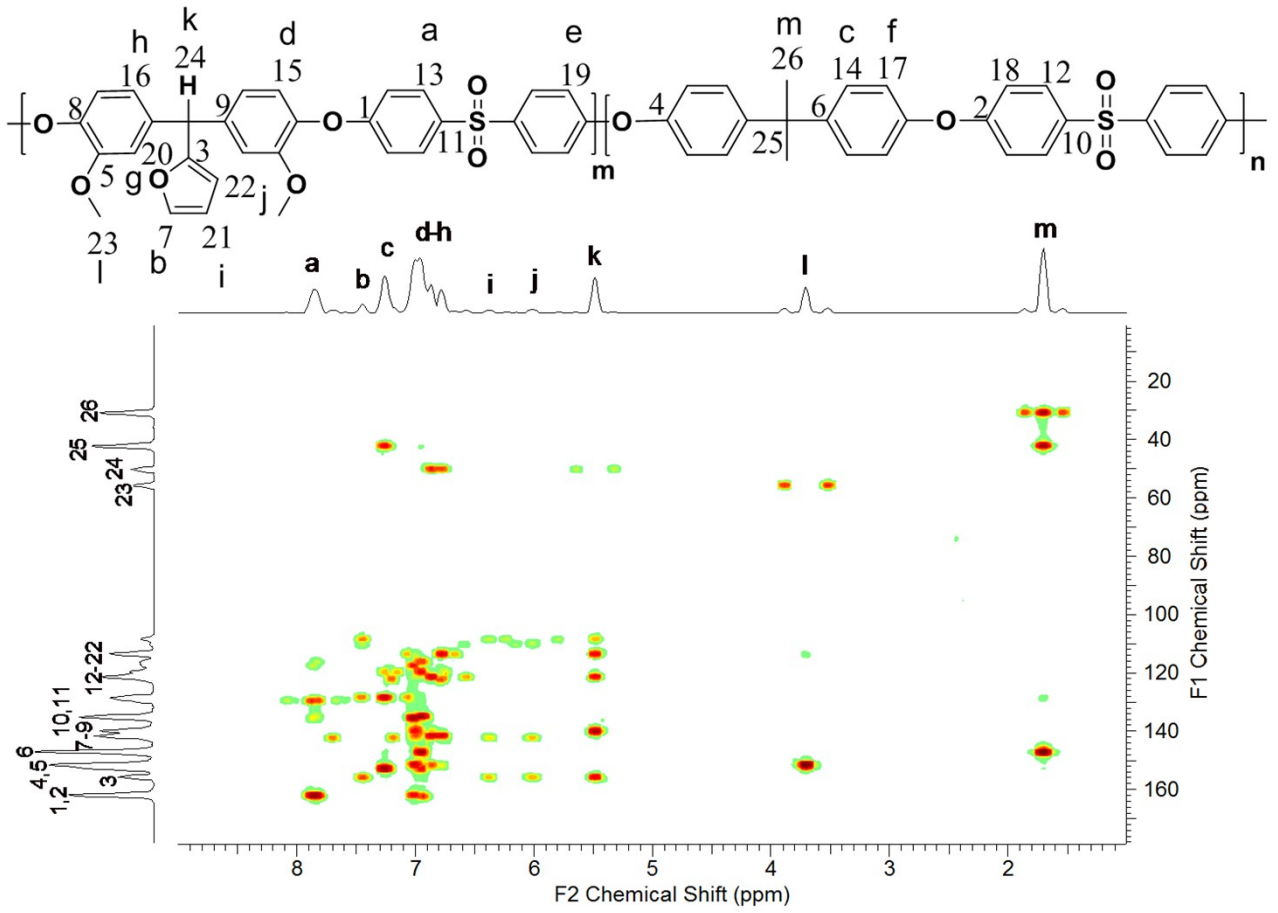


Fig. S10. HMBC spectrum (in CDCl₃) of copoly(ether sulfone) PSU-2.

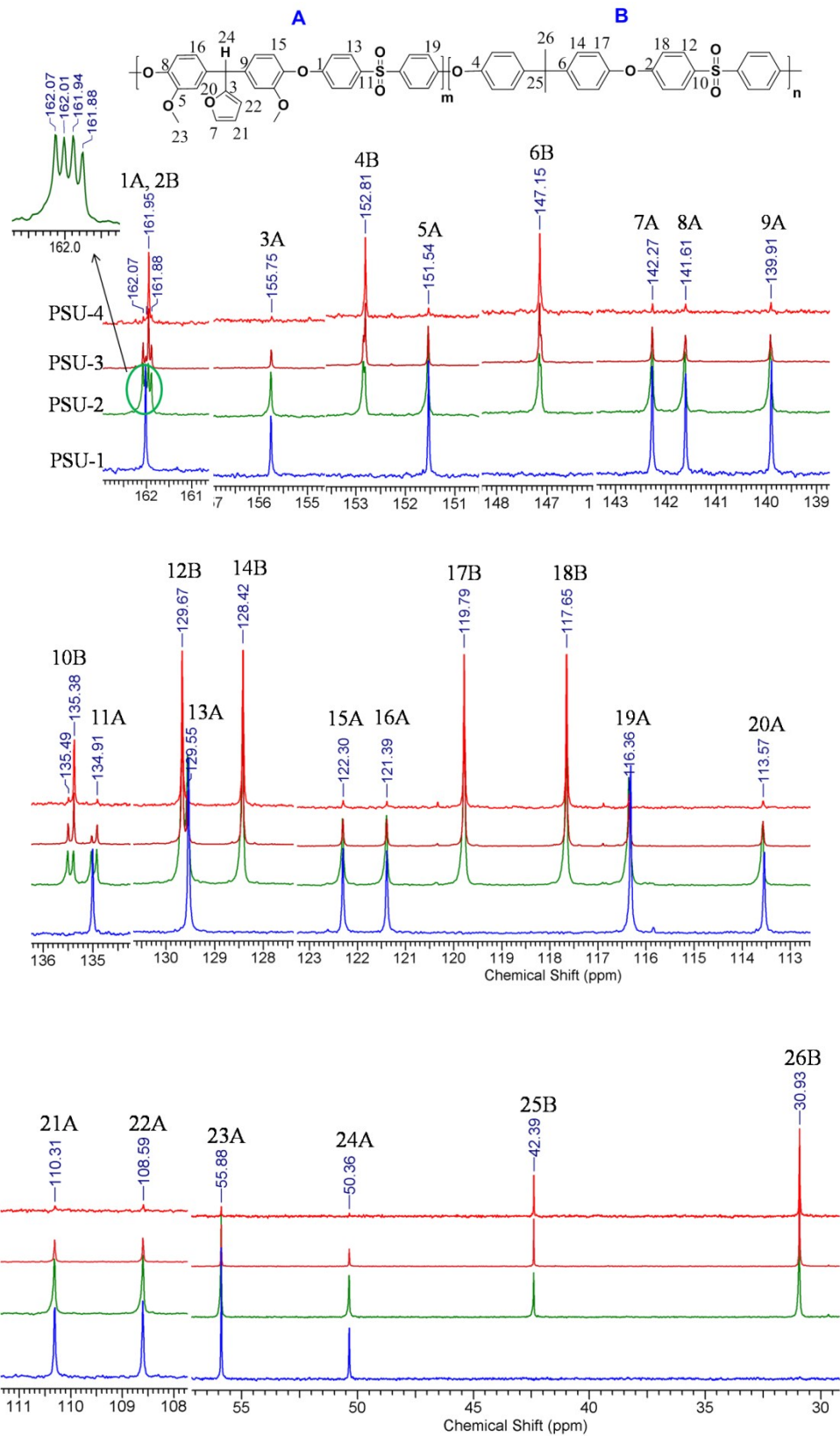


Fig. S11. ^{13}C NMR spectra (in CDCl_3) of (co)poly(ether sulfone)s.

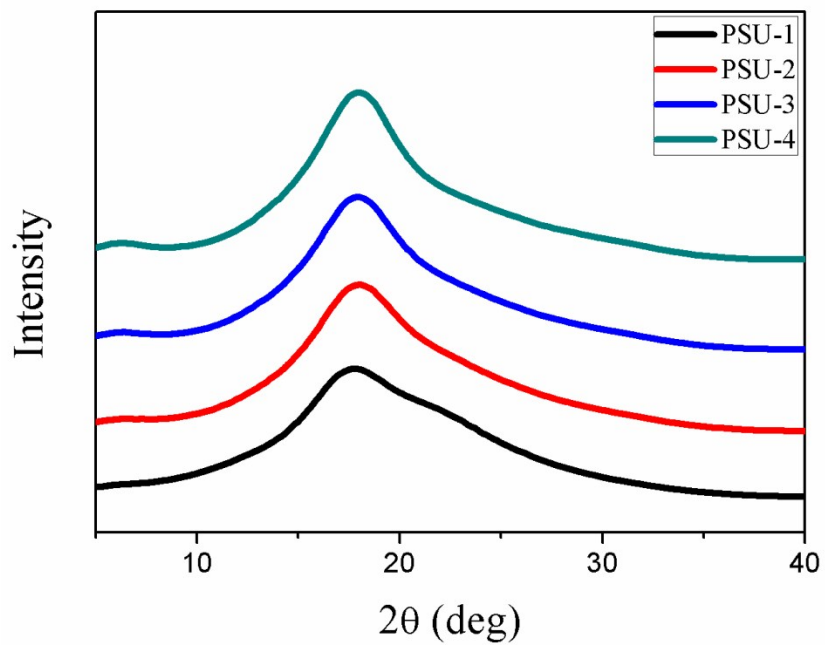


Fig. S12. X-Ray diffractograms of (co)poly(ether sulfone)s.

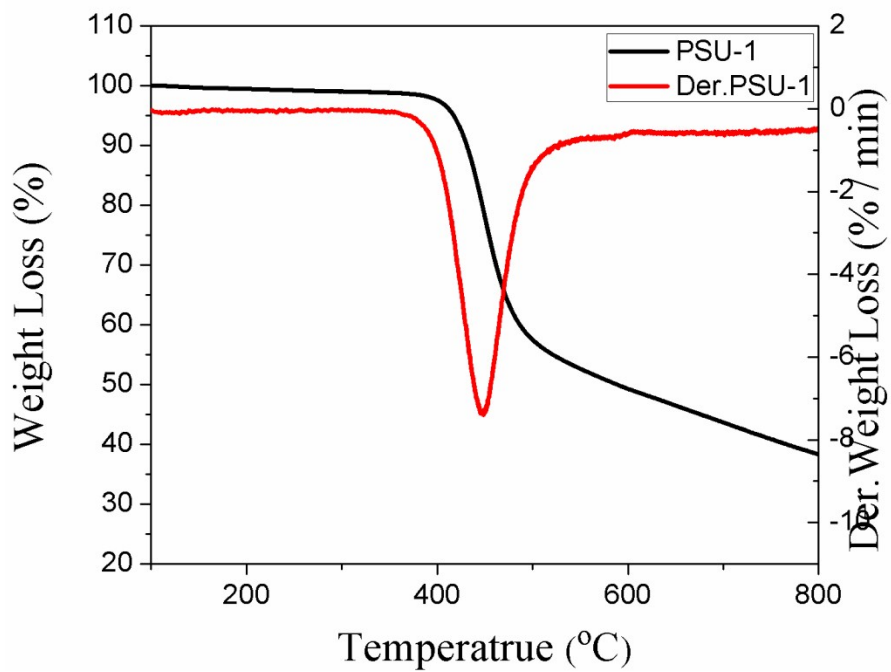


Fig. S13. Representative TG and DTG curves of poly(ether sulfone) PSU-1.

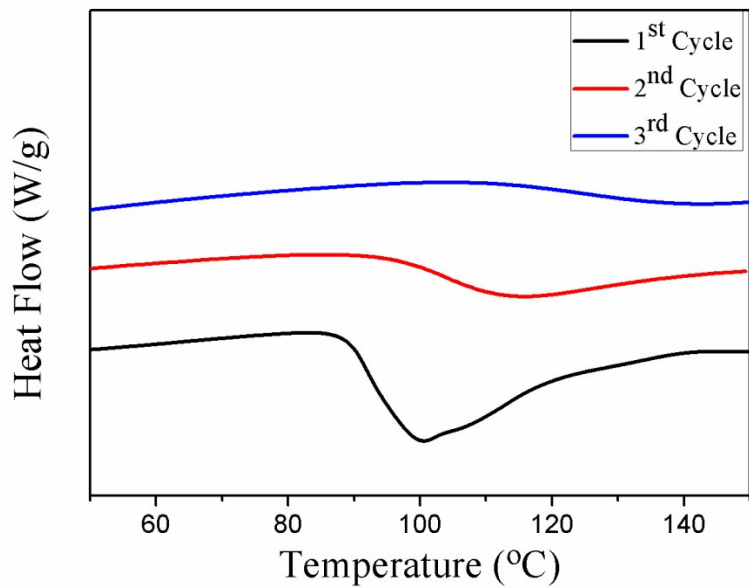


Fig. S14. DSC curves (first, second and third heating cycle) of cross-linked copoly(ether sulfone)s PSU-2-BMI.

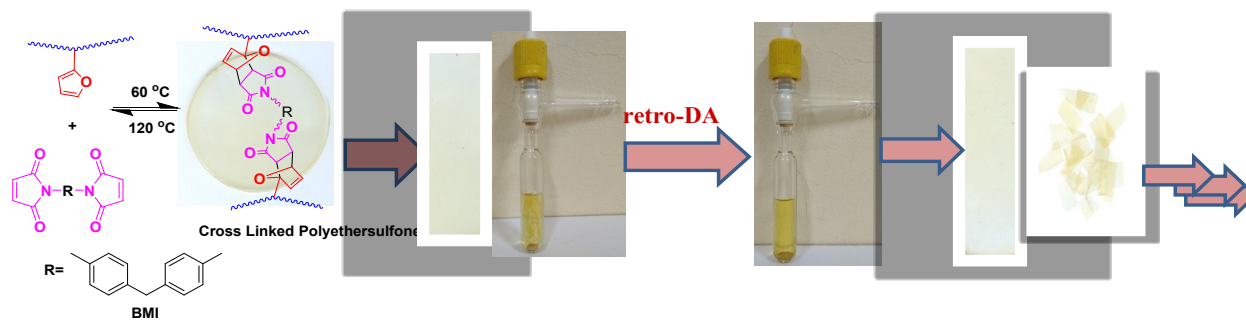


Fig. S15. Thermo-reversibility of cross-linked copoly(ether sulfone).