Electronic Supplementary Material (ESI) for Polymer Chemistry.

Supporting Information

Synthesis of Bottlebrush Polymers Based on Poly(*N*-Sulfonyl Aziridine) Macromonomers

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(GED and PLM contributed equally to this work)

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Fig. S1: ^{1}H NMR of ditosylated product in $CDCl_3$.

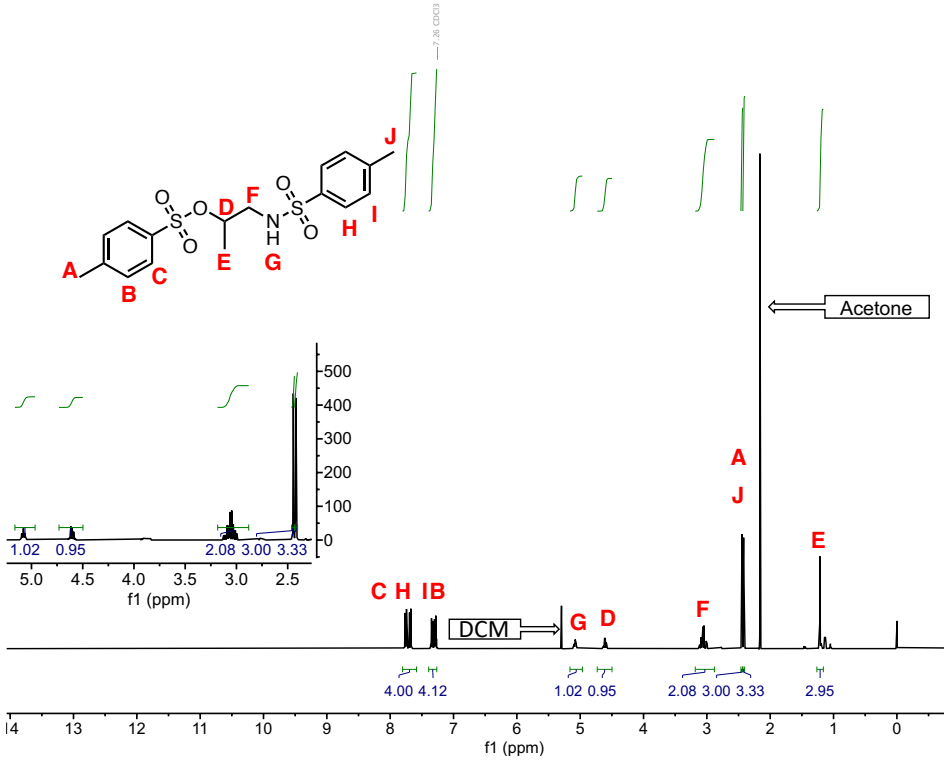

Fig. S2: ^{13}C NMR of ditosylated product in $CDCl_3$.

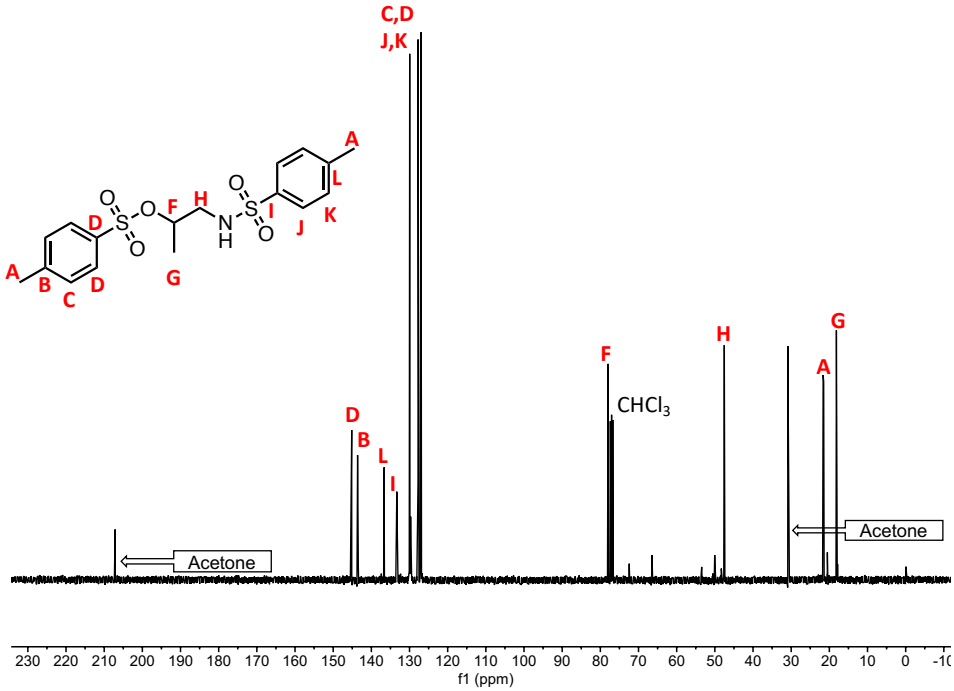

Fig. S3: ^{1}H NMR of 2-methyltosylaziridine monomer in $CDCl_3$.

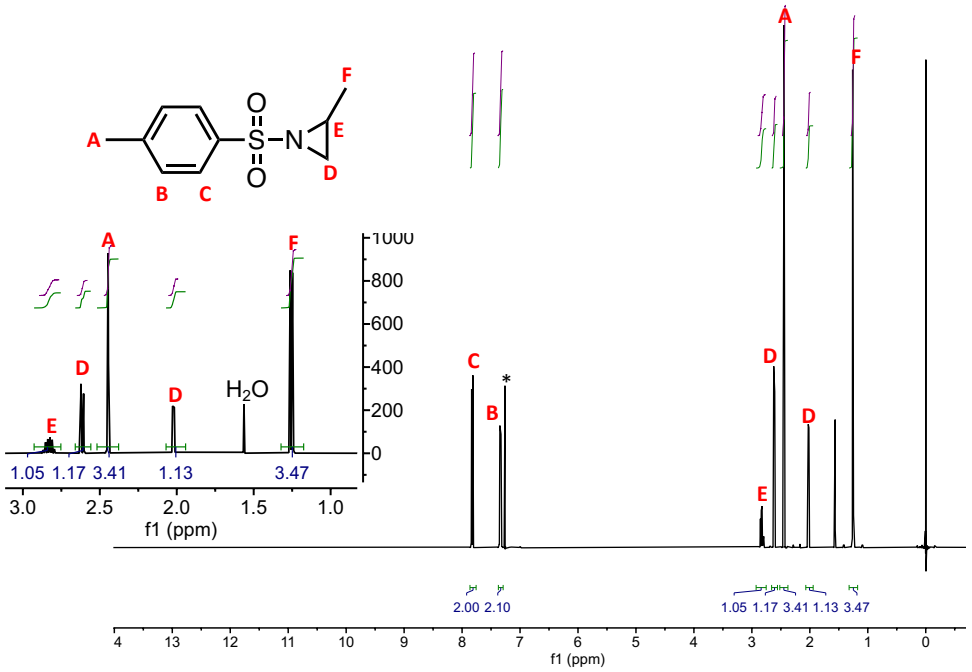

Fig. S4: ^{13}C NMR of 2-methyltosylaziridine monomer in $CDCl_3$.

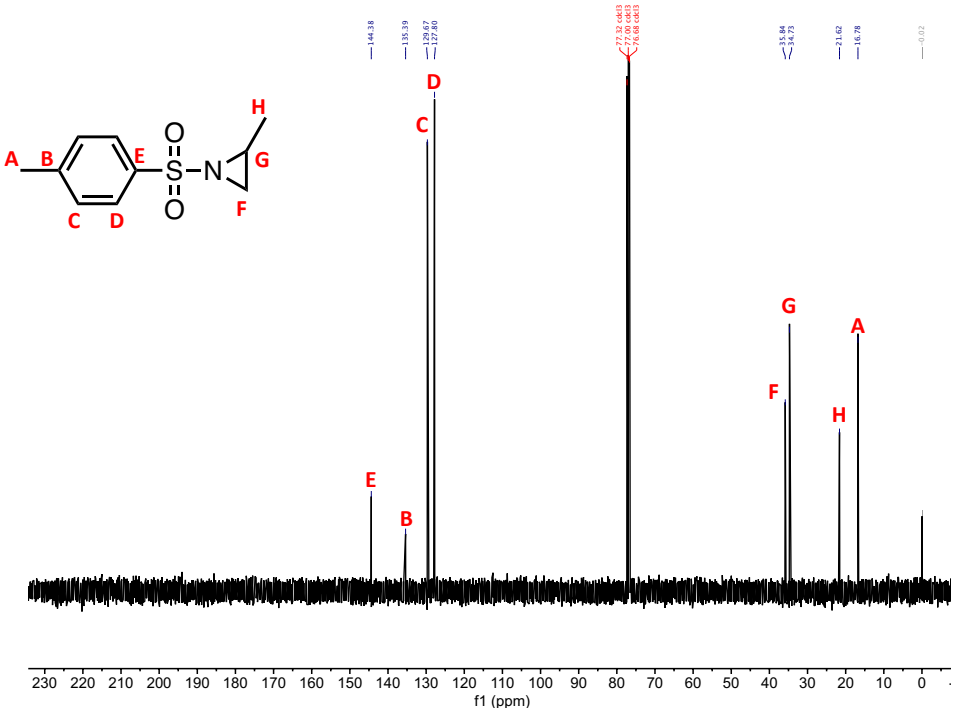

Fig. S5: ^{1}H NMR of Boc-norbornene imide in $CDCl_3$.

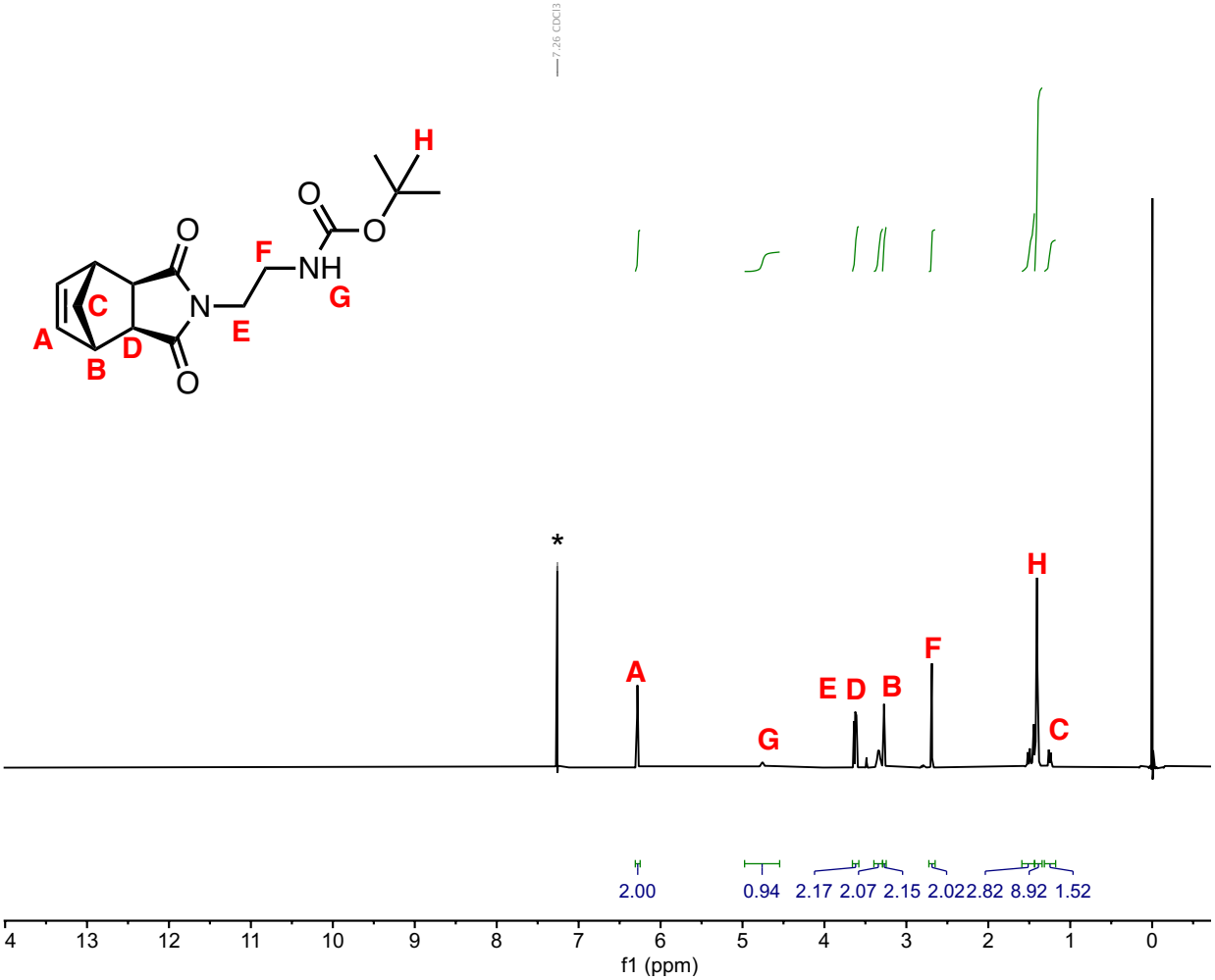

Fig. S6: ^{1}H NMR of Norbornene Aza-anionic initiator in $CDCl_3$.

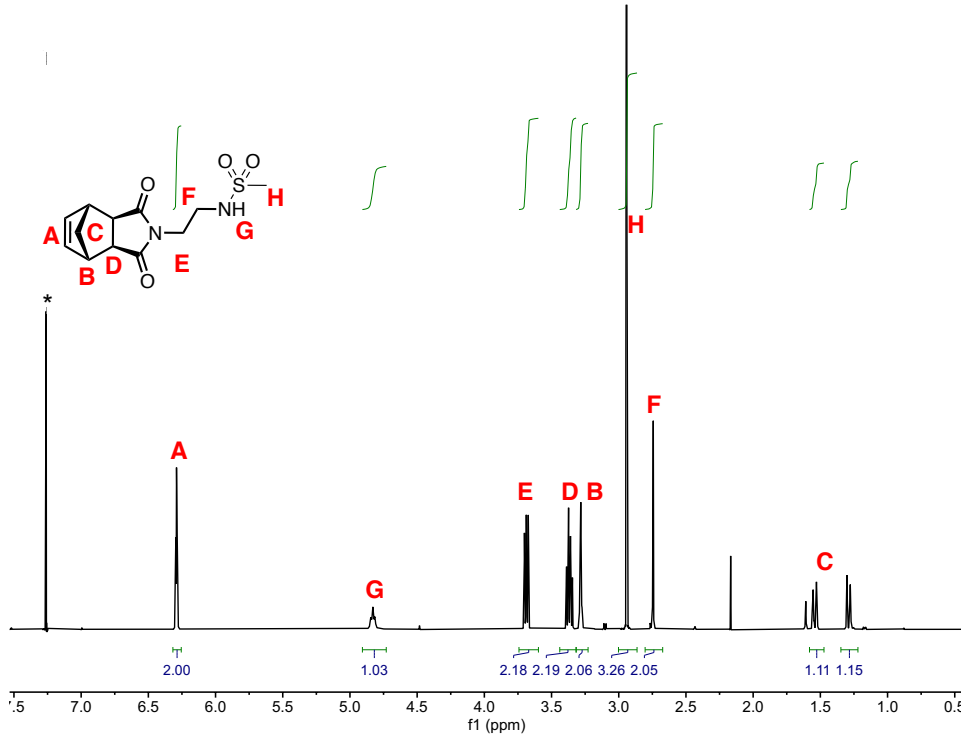

Fig. S7: ^{13}C NMR of Norbornene Aza-anionic initiator in $CDCl_3$.

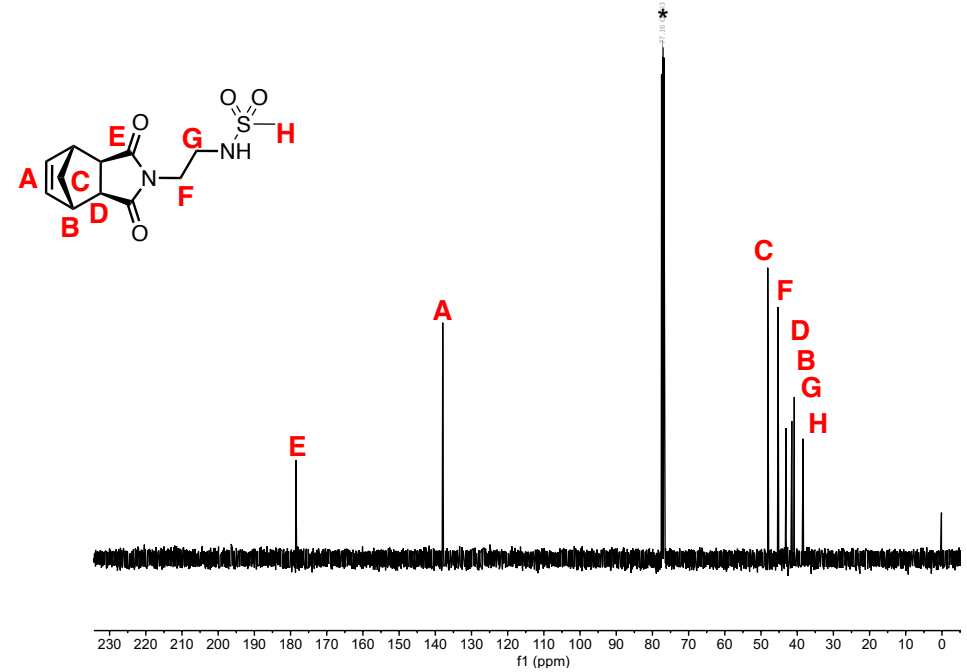

Fig. S8: ^{1}H NMR of Poly(2-methyltosylaziridine) macromonomer in DMSO-d6.

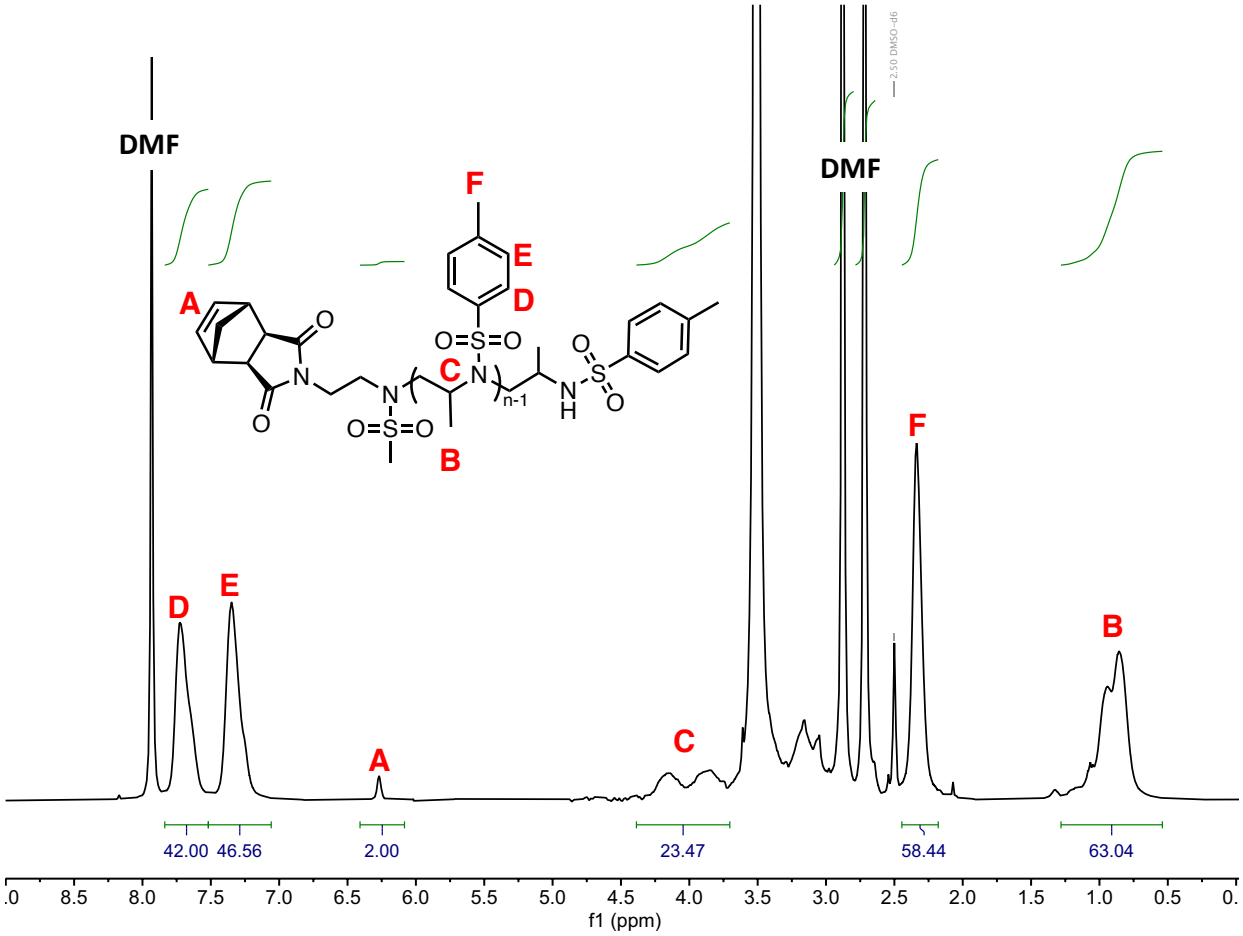

Fig. S9: SEC trace of poly(2-methyltosylaziridine) macromonomer.

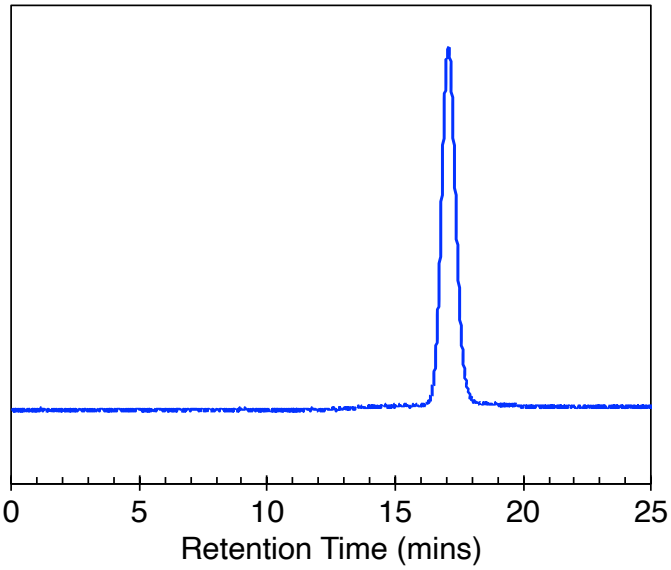

Fig. S10: Kinetics plot of grafting-through bottlebrush synthesis.

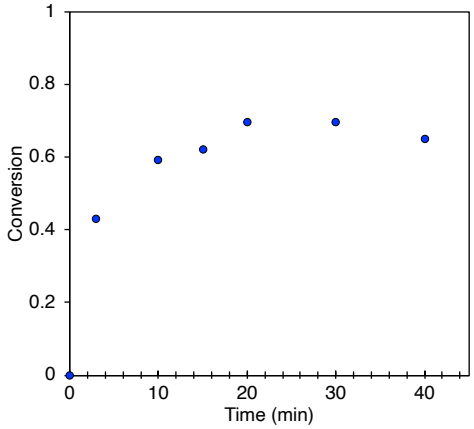

Fig. S11: Representative ^{1}H NMR of Bottlebrush Poly(norbornene-graft-2-methyltosylaziridine) in dichloromethane-d2.

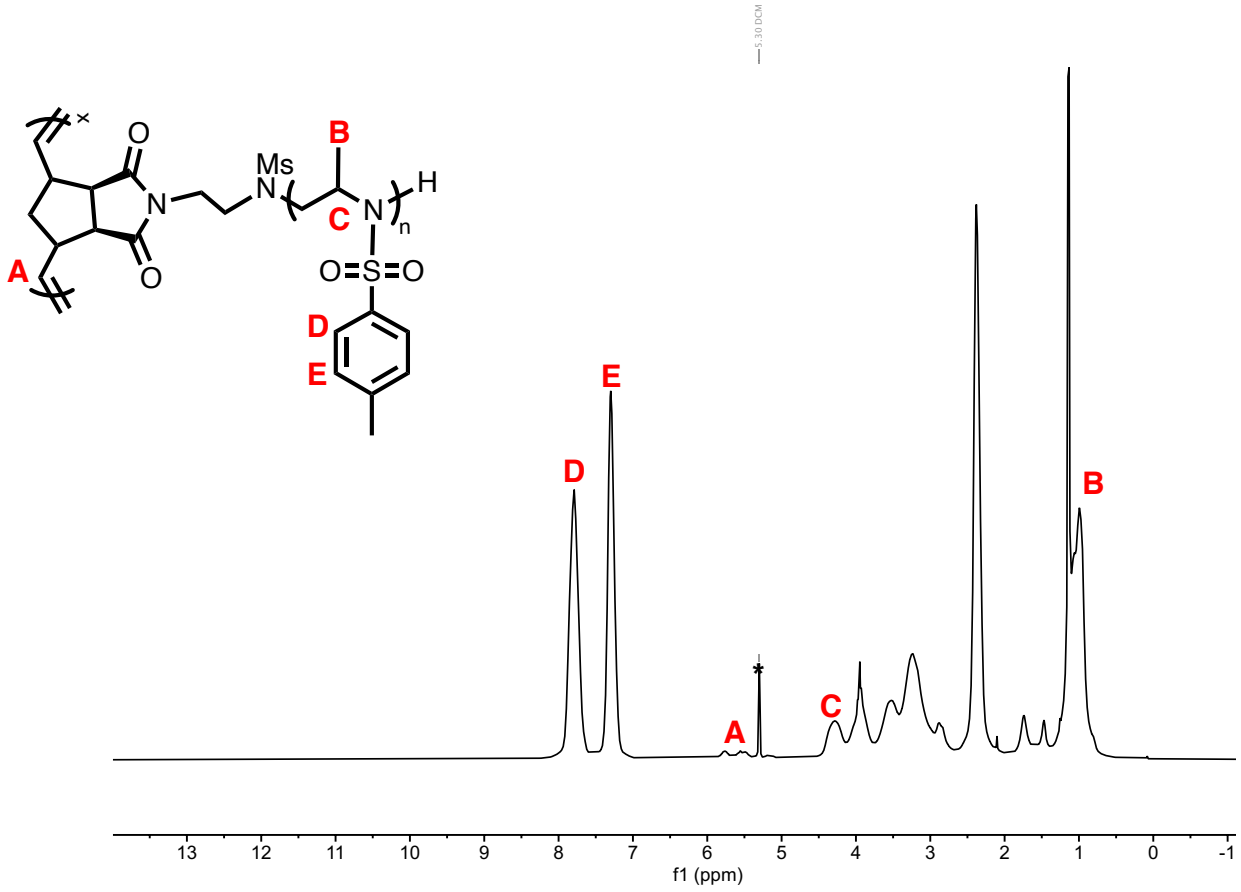

Fig. S12: Raw DLS correlation coefficients.