

Thiol-Michael "Click" Chemistry: Another Efficient Tool for Head Functionalization of Giant Surfactants

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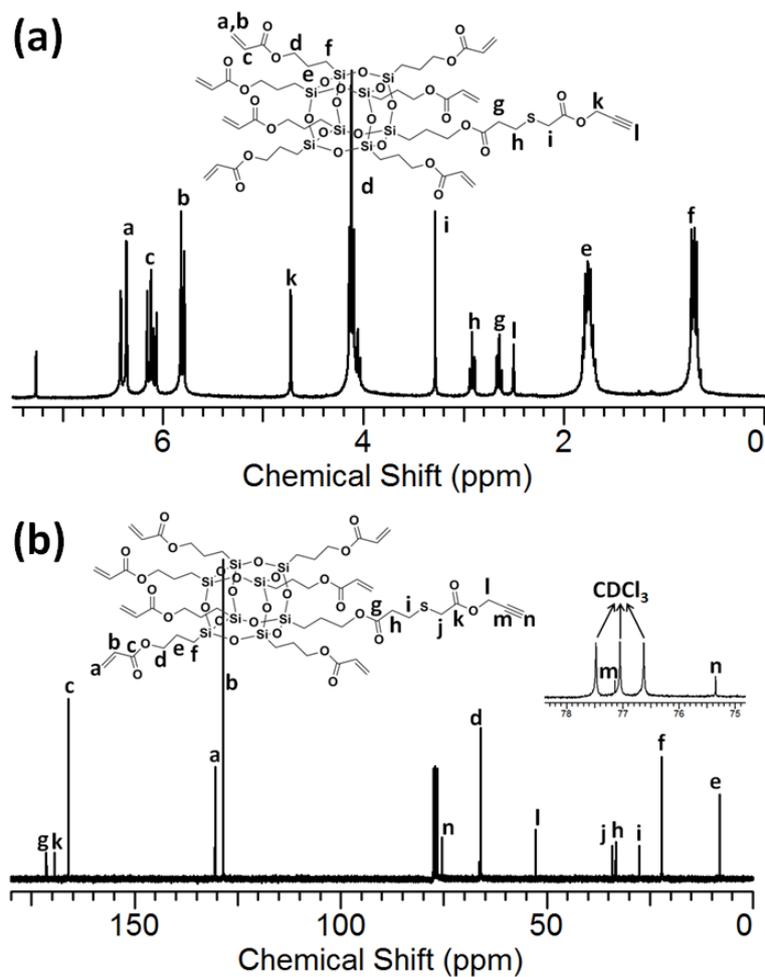


Fig. S1 ¹H NMR (a) and ¹³C NMR (b) spectrum of ACPOSS-alkyne.

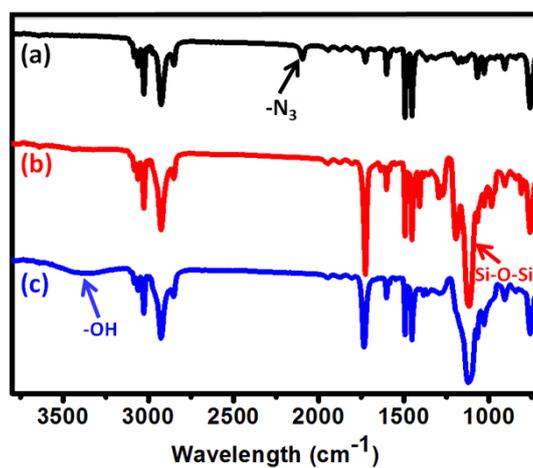


Fig. S2 FTIR spectra of (a) PS₄₈-N₃ (black curve), (b) ACPOSS-PS₄₈ (red curve), and (c) HPOSS-PS₄₈-TM (blue curve).

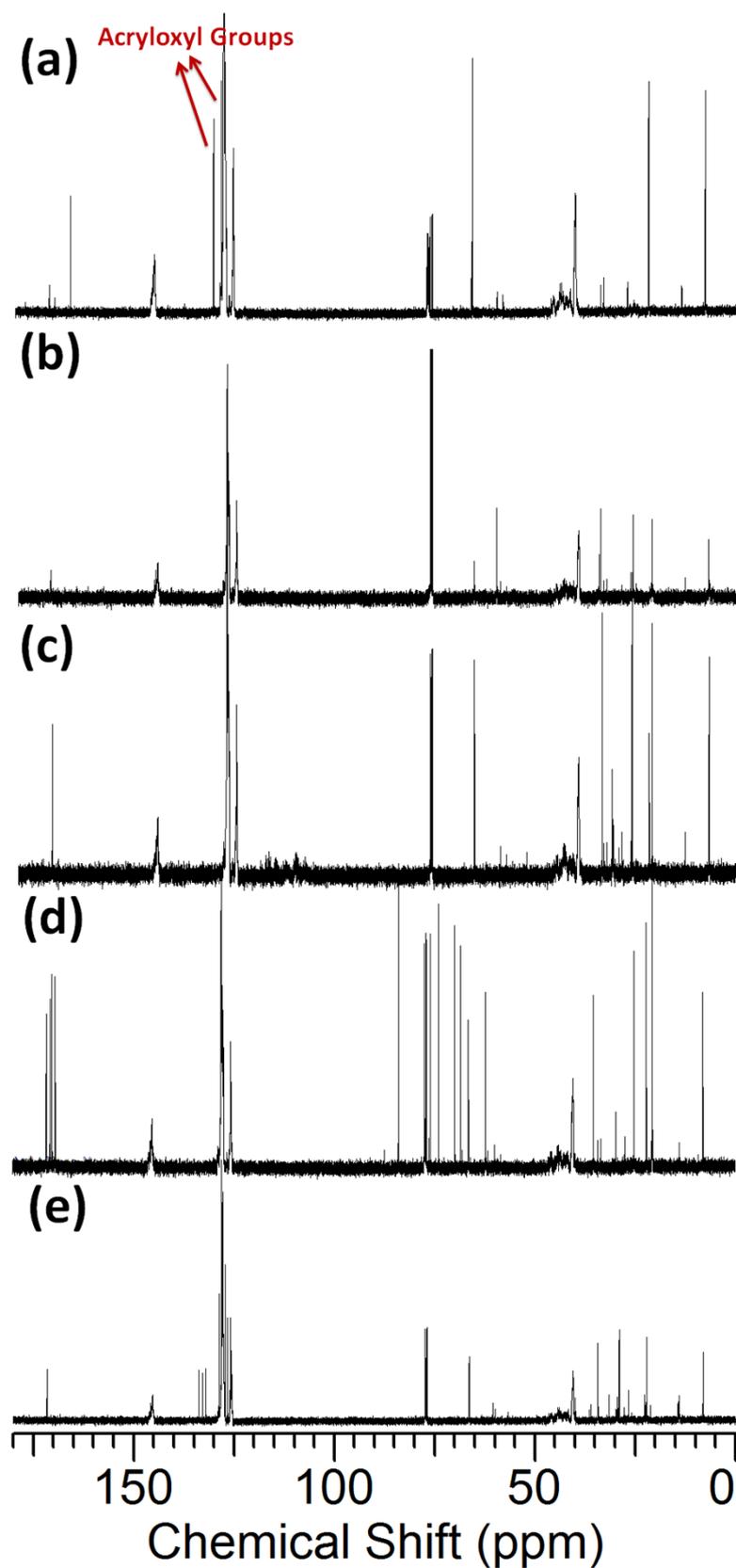


Fig. S3 ^{13}C NMR spectra of (a) ACPOSS-PS₄₈, (b) HPOSS-PS₄₈-TM, (c) FPOSS-PS₄₈-TM, (d) SPOSS-PS₄₈-TM, and (e) NPOSS-PS₄₈-TM.

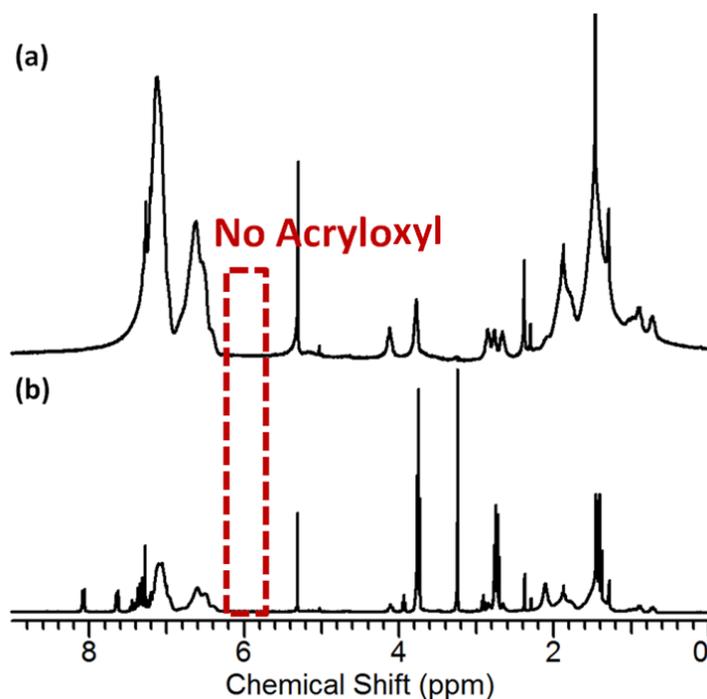


Fig. S4 ¹H NMR spectra of HPOSS-PS₇₆-TM crude product (a), and HPOSS-PS₇₆-TE crude product (b).

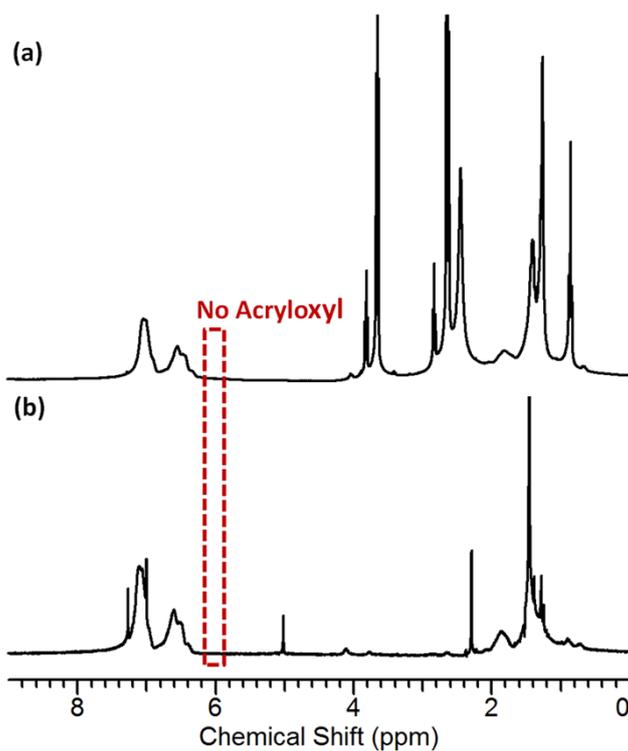


Fig. S5 ¹H NMR spectra of HPOSS-PS₁₇₆-TM crude product (a), and HPOSS-PS₁₇₆-TE crude product (b).

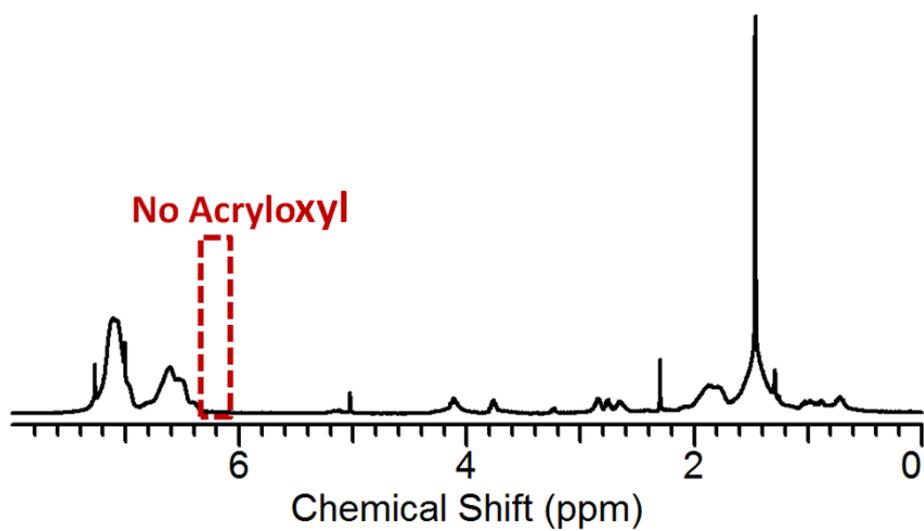


Fig. S6 ¹H NMR spectrum of HPOSS-PS₄₈-TE crude product.

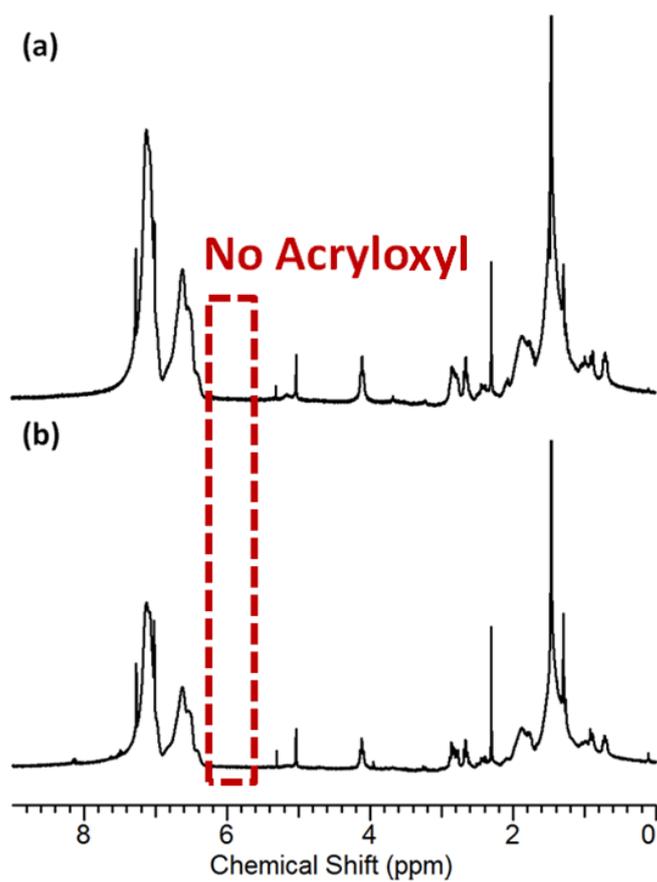


Fig. S7 ¹H NMR spectra of FPOSS-PS₇₆-TM crude product (a), and FPOSS-PS₇₆-TE crude product (b).

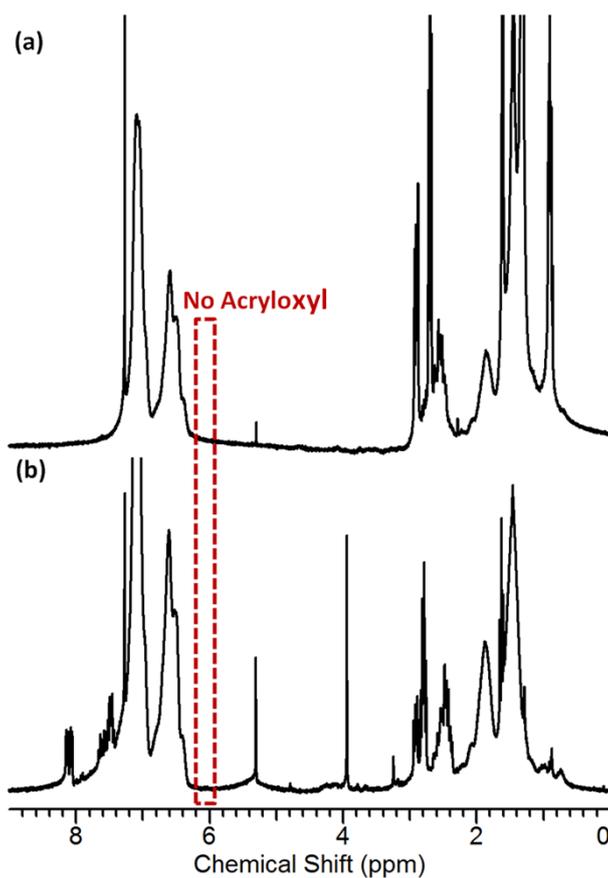


Fig. S8 ¹H NMR spectra of FPOSS-PS₁₇₆-TM crude product (a), and FPOSS-PS₁₇₆-TE crude product (b).

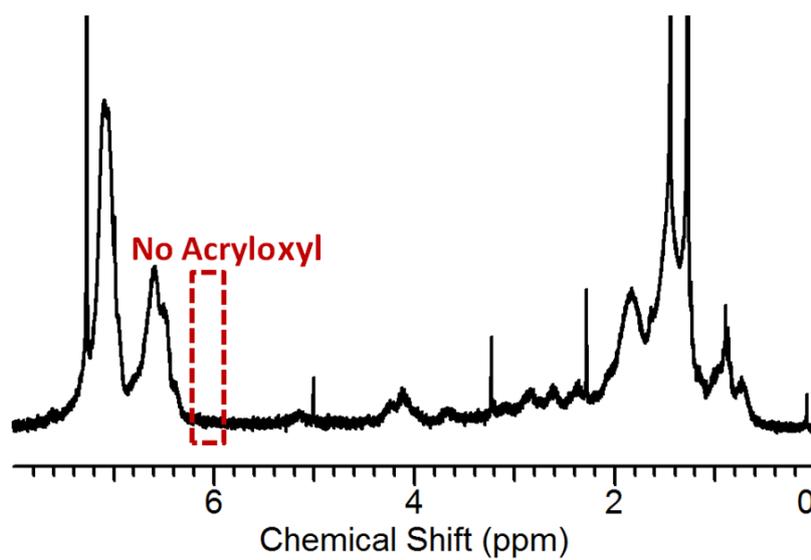


Fig. S9 ¹H NMR spectrum of FPOSS-PS₄₈-TE crude product.

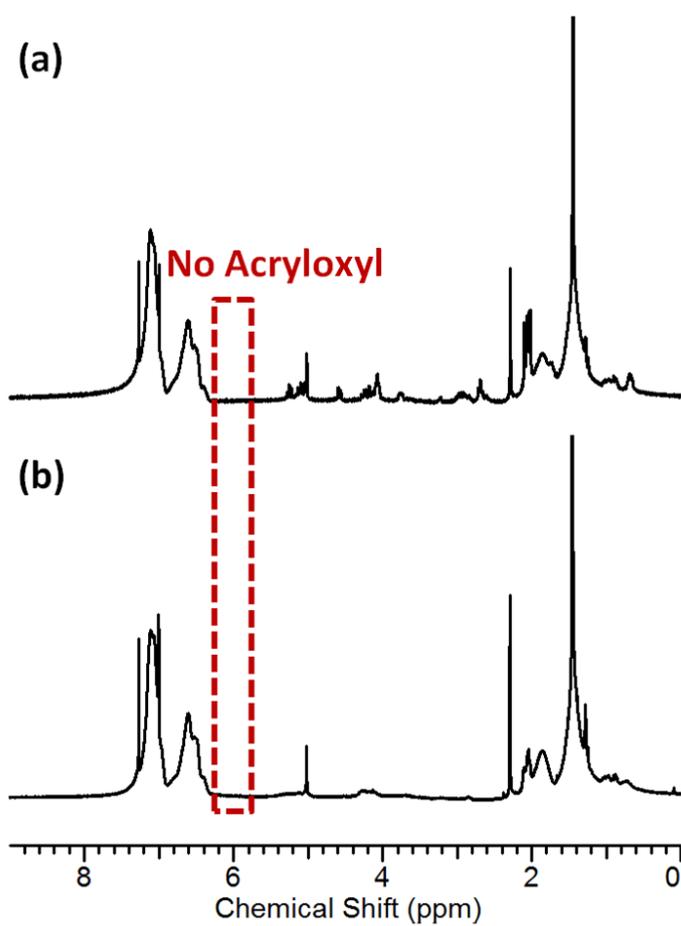


Fig. S10 ¹H NMR spectra of SPOSS-PS₇₆-TM crude product (a), and SPOSS-PS₇₆-TE crude product (b).

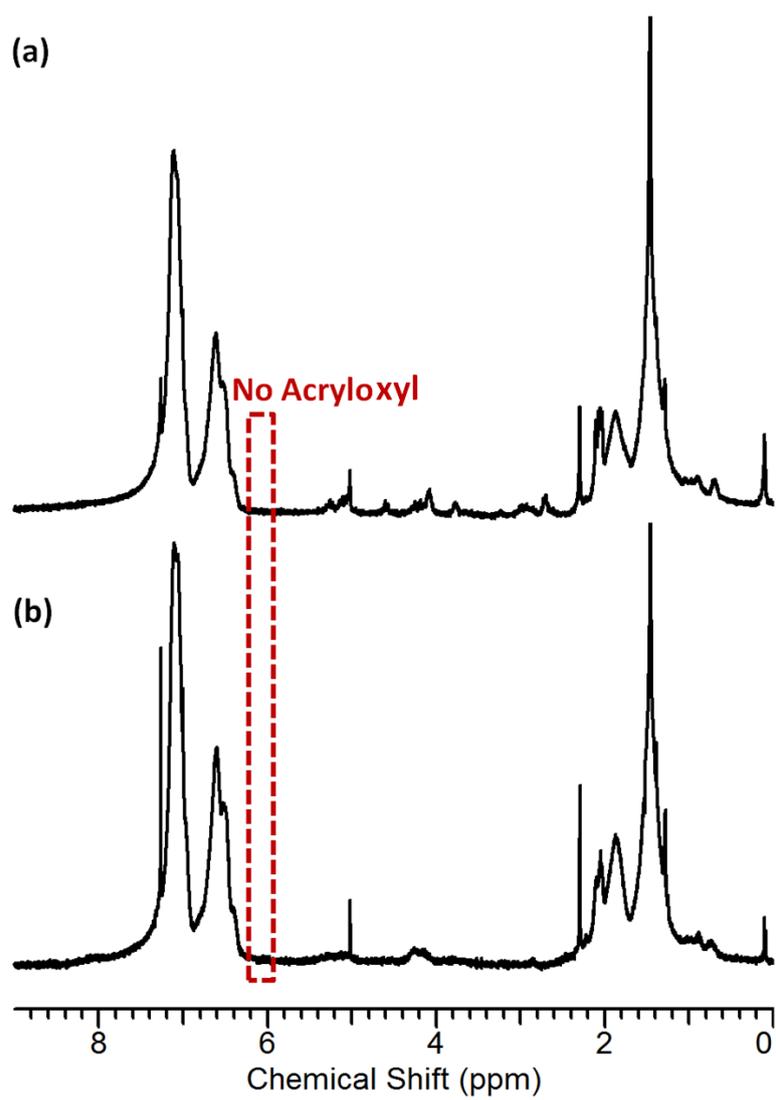


Fig. S11 ^1H NMR spectra of SPOSS-PS₁₇₆-TM crude product (a), and SPOSS-PS₁₇₆-TE crude product (b).

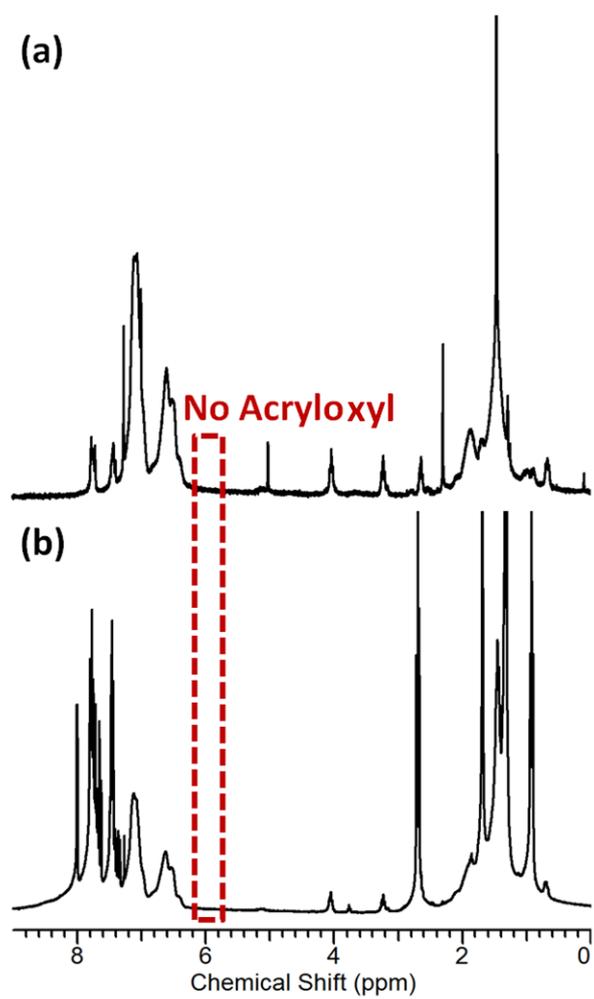


Fig. S12 ^1H NMR spectra of NPOSS-PS₇₆-TM crude product (a), and NPOSS-PS₇₆-TE crude product (b).

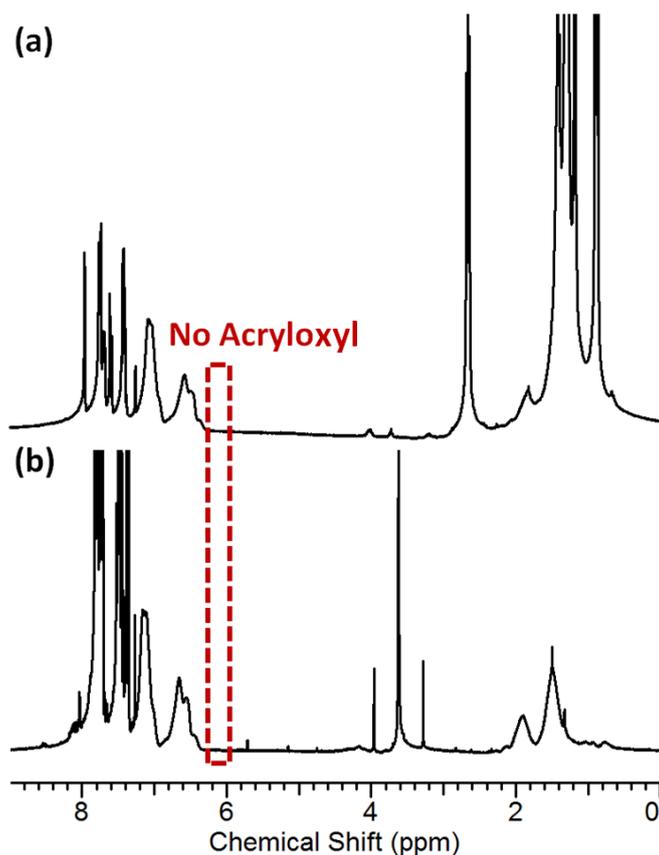


Fig. S13 ^1H NMR spectra of NPOSS-PS₁₇₆-TM crude product (a), and NPOSS-PS₁₇₆-TE crude product (b).

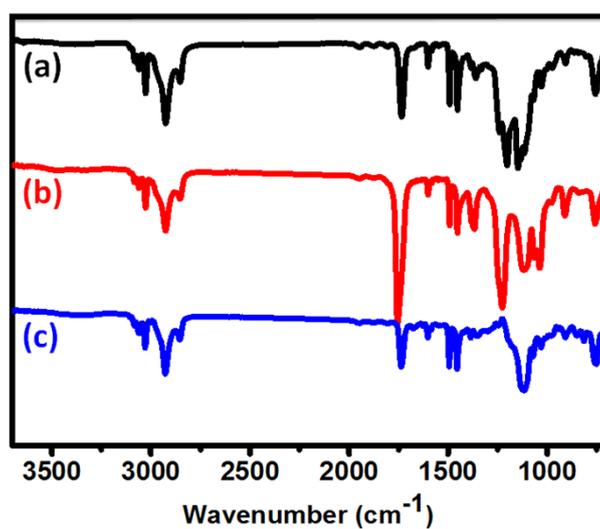


Fig. S14 FTIR spectra of (a) FPOSS-PS₄₈-TM (black curve), (b) SPOSS-PS₄₈-TM (red curve), and (c) NPOSS-PS₄₈-TM (blue curve)

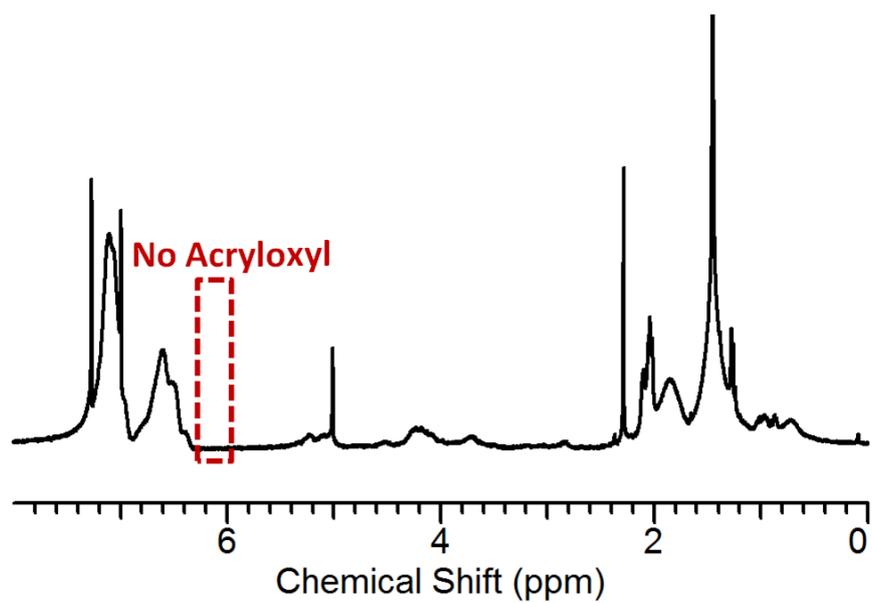


Fig. S15 ¹H NMR spectrum of SPOSS-PS₄₈-TE crude product.

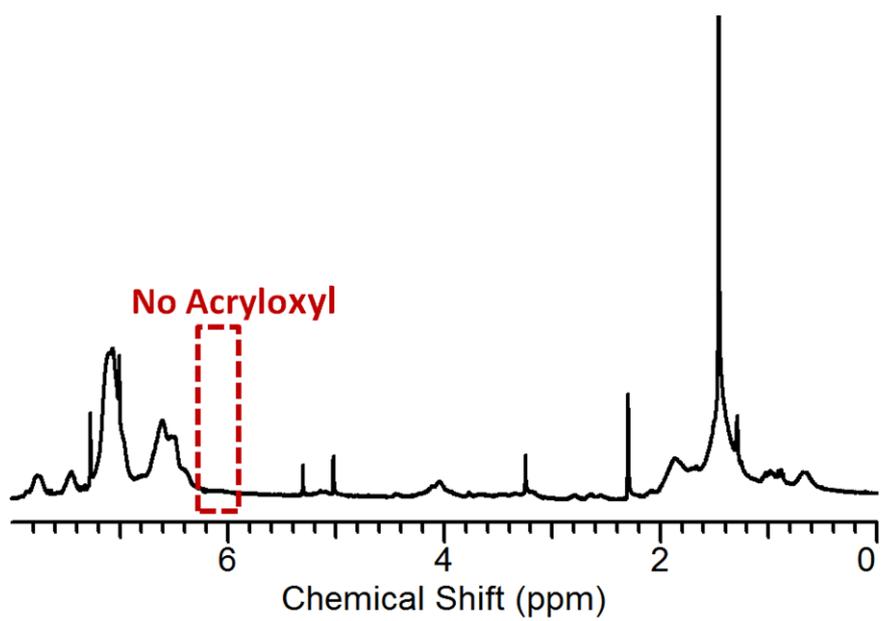


Fig. S16 ¹H NMR spectrum of NPOSS-PS₄₈-TE crude product.