

SUPPORTING INFORMATION

Facile and Selective Synthesis of Aldehyde End-Functionalized Polymers Using a Combination of Catalytic Chain Transfer and Rhodium Catalyzed Hydroformylation.

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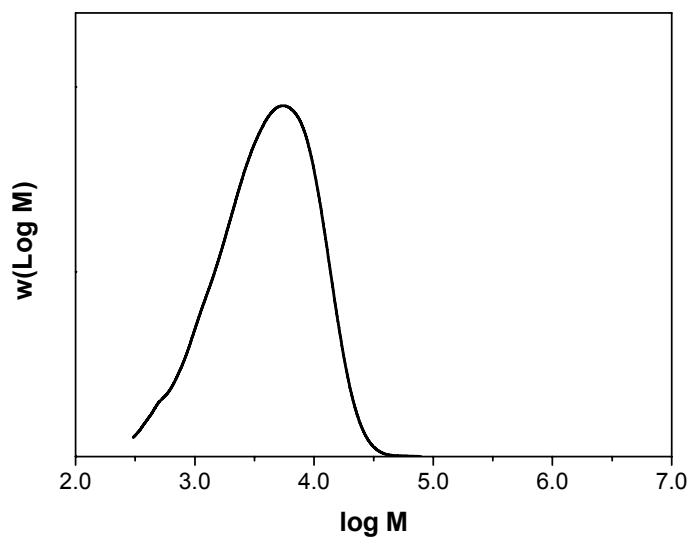


Fig. S1. The SEC chromatogram of the poly(styrene) macromonomer.

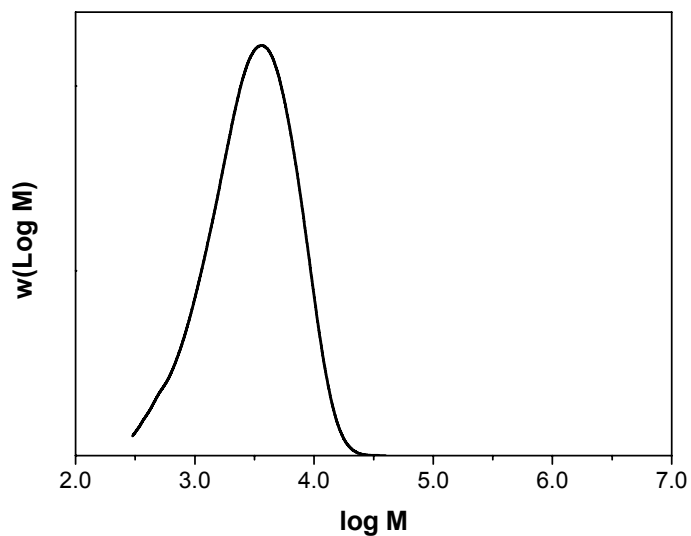


Fig. S2. The SEC chromatogram of the poly(styrene-co-alpha methyl styrene) macromonomer.

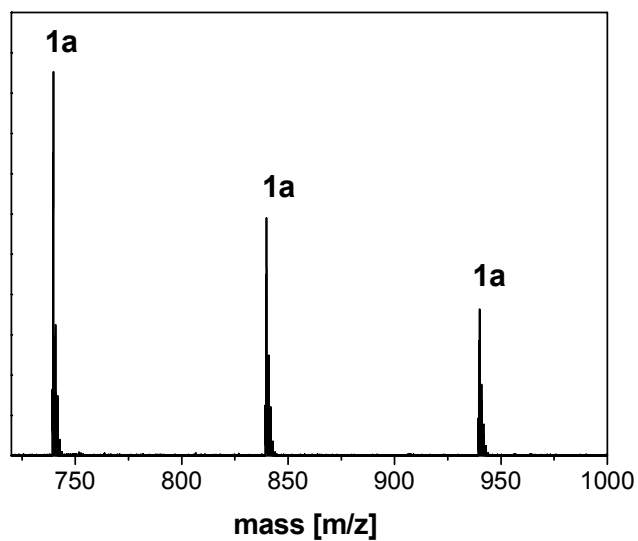


Fig. S3. The MALDI-ToF-MS spectrum of the pMMA macromonomer, where (**1a**) $\text{H-(MMA)}_n\text{-CH}_2\text{-C(CO-O-CH}_3\text{)=CH}_2$

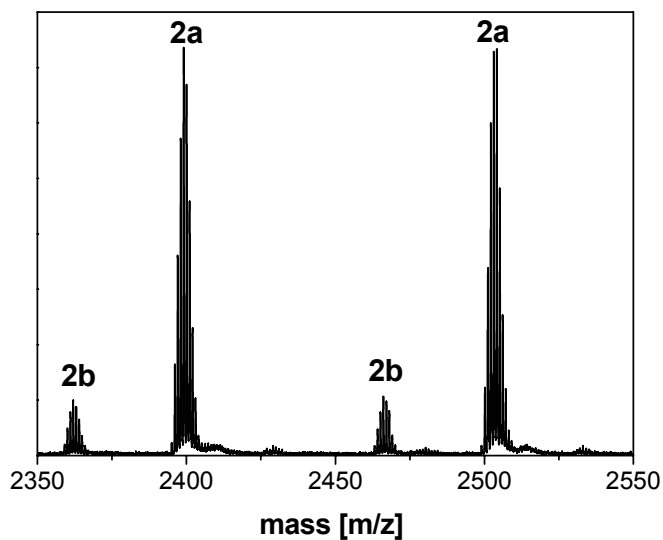


Fig. S4. The MALDI-ToF-MS spectrum of the pS macromonomer, where **(2a)** $\text{H}-(\text{STY})_n-\text{CH}_2=\text{C}(\text{C}_6\text{H}_5)\text{H}$ and **(2b)** $\text{NC}(\text{CH}_3)_2-(\text{STY})_n-\text{CH}_2=\text{C}(\text{C}_6\text{H}_5)\text{H}$

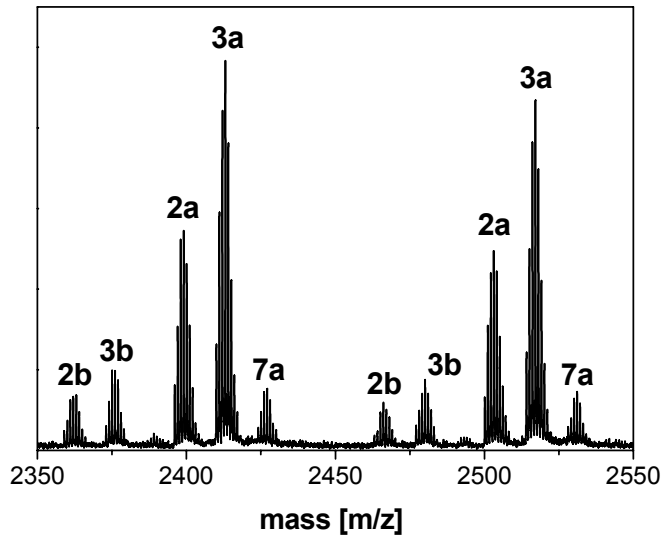


Fig. S5. The MALDI-ToF-MS spectrum of the p(S-co-AMS) macromonomer, where **(2a)** $\text{H}-(\text{STY})_n-\text{CH}_2=\text{C}(\text{C}_6\text{H}_5)\text{H}$; **(2b)** $\text{NC}(\text{CH}_3)_2-(\text{STY})_n-\text{CH}_2=\text{C}(\text{C}_6\text{H}_5)\text{H}$; **(3a)** $\text{H}-(\text{STY})_n-$

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$\text{CH}_2\text{-C}(\text{C}_6\text{H}_5)=\text{CH}_2$; **(3b)** $\text{NC}(\text{CH}_3)_2\text{-(STY)}_n\text{-CH}_2\text{-C}(\text{C}_6\text{H}_5)=\text{CH}_2$ and **(7a)** $\text{H-(STY)}_n\text{-}$
 $(\text{AMS})_1\text{-CH}_2\text{-C}(\text{C}_6\text{H}_5)=\text{CH}_2$