Supporting Information

Facile synthesis of highly pure block copolymers by combination of RAFT polymerization, click reaction and de-grafting process

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Figure S1. $^1$H NMR spectra of PMMA.
**Figure S2.** $^1$H NMR spectra of PSt.

**Figure S3.** $^1$H NMR spectra of PMA.
Figure S4. $^1$H NMR spectra of PSt-b-PNAM.

Figure S5. $^1$H NMR spectra of PSt-b-PNIPAM.
Figure S6. $^1$H NMR spectra of PSt-b-PDMA.

Figure S7. $^1$H NMR spectra of PSt-b-PSA.
**Figure S8.** IR spectra of silica particles grafted with homopolymers.

**Figure S9.** IR spectra of silica particles grafted with diblock copolymers.