Effects of Fluoro Substitution on the Electrochromic Performance of Alternating Benzotriazole and Benzothiadiazole-Based Donor–Acceptor Type Copolymers

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Figure S1. $^1$H NMR spectrum and $^{13}$C NMR spectrum of 2-dodecyl-4,7-di(5-bromo-thiophen-2-yl)-2H-benzo[d][1,2,3]triazol in CDCl$_3$: (a) $^1$H NMR, solvent peak at $\delta = 7.26$ ppm was marked by “x”. (b) $^{13}$C NMR, solvent peak at $\delta = 77.01$ ppm was marked by “X”.
**Figure S2.** $^1$H NMR spectra of the polymers in CDCl$_3$: (a) P(TBT-TBTh); (b) P(TBT-F-TBTh).

Solvent and tetramethylsilane peaks were marked by “x”, “y” respectively.