Measurements.

$^1$H and $^{13}$C nuclear magnetic resonance (NMR) spectra were measured on a Varian Inova-500 spectrometer using tetramethylsilane as an internal standard (500 MHz and 125 MHz for $^1$H and $^{13}$C NMR, respectively). Fourier transform infrared (FT-IR) spectra were measured on a Horiba FT-210 instrument. Gel permeation chromatography (GPC) measurements were performed on a Tosoh TSK-gel G2500HXL, G3000HXL, G4000HXL and G5000HXL tandem columns using tetrahydrofuran (THF) as an eluent at 40 °C. Polystyrene standards were used for calibration.

$^1$H and $^{13}$C NMR spectra of poly7TC (THF soluble part) obtained in run 1.

$^1$H NMR

\[
\begin{array}{c}
\text{(} \text{S} \text{a b a b a b)} \\
\text{CHCl}_3
\end{array}
\]

\[8 \ 7 \ 6 \ 5 \ 4 \ 3 \ 2 \ 1 \ 0 \ \text{PPM} \]

$^{13}$C NMR

\[
\begin{array}{c}
\text{(} \text{c O b a b a b)} \\
\text{CDCl}_3
\end{array}
\]

\[200 \ 150 \ 100 \ 50 \ 0 \ \text{PPM} \]

$^1$H and $^{13}$C NMR spectra of poly 7TC obtained in run 8.
$^{1}H$ and $^{13}C$ NMR spectra of poly 7TC obtained by cationic polymerization using $\text{Et}_{3}\text{OBF}_4$. 

Relationship between $M_n$ and $M_n/M_w$ versus conversion of 7TC
GPC traces in the post-polymerization experiment

20 eq to initiator

\[ \text{BuOK} \quad \text{THF (0.5 M), 30°C, 12h} \quad \text{Prepolymer} \]

\[ \text{Monomer (20 eq to initiator)} \quad \text{THF (1 M), 30°C, 24 h} \quad \text{Postpolymer} \]