## Conformational polymorphism facilitates assignment of

## trans and cis-conformers of an $\alpha$ -substituted oligothiophene

## via IR spectroscopy

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## SUPPLEMENTARY MATERIAL

FTIR spectra of the  $\gamma$ C-H bends of polymorphs A (black) and C (blue) (KBr) (IR spectra were recorded using a Nicolet 380 single beam FT-IR spectrophotometer).

Figure S1. FTIR spectra showing the  $\gamma$ C-H bends of polymorphs A (black) and C (blue).

Figure S2. FTIR spectrum of polymorph A.

Figure S3. FTIR spectrum of polymorph C.







Figure S2. FTIR spectrum of polymorph A.



