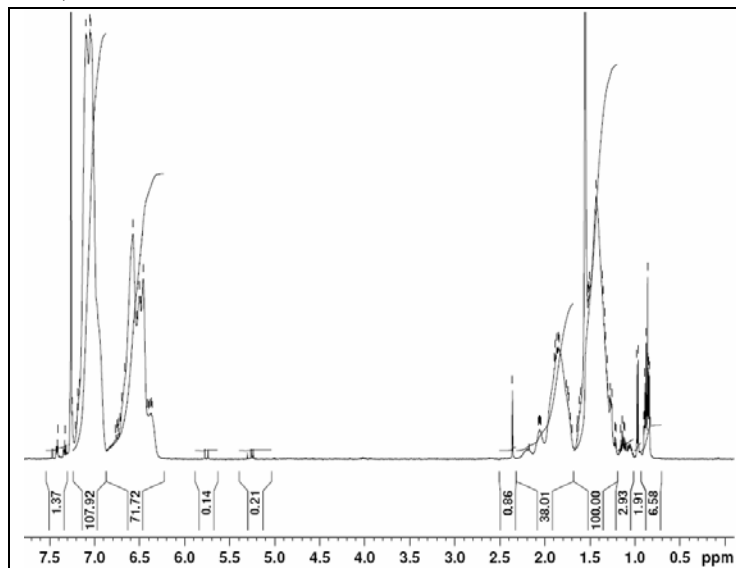


# No. AI46

# Certificate of Analysis

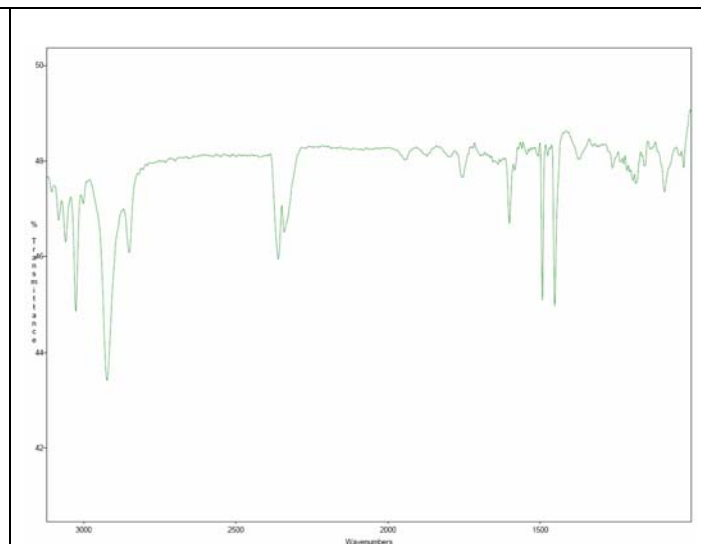
Product Name: Poly(styrene)-(2-Cyano-2-propyl dodecyl trithiocarbonate) copolymers  
(MW~50,000Da) (Lot#: 30425JSG)

## H-NMR



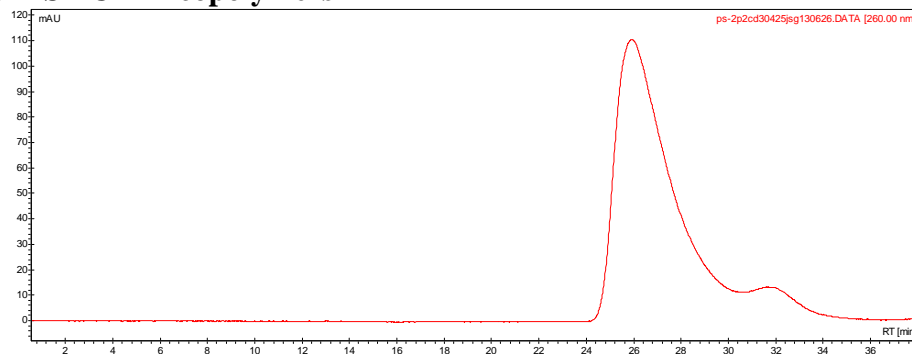
H-NMR Spectrum of PS-2C2PD copolymers in CDCl<sub>3</sub> (Varian Inova 500 MHz instrument)

## FTIR



Analysis Method: Collected from cast-film on KBR salt-plate  
Placed in Satellite FTIR (Thermo-Mattson) and analyzed in transmission mode.

- **GPC analysis of PS-2C2PD copolymers**



Analysis Method: Varian Prostar system with 1 ml/min DCM flow across four Phenogel 5u columns (Agilent). Detection via UV/Vis, calibrated against polystyrene standards

Polymer	Mn (from GPC)	Mw (from GPC)	PDI
PS-2C2PD	46829	87501	1.87

- **Structure of PS-2C2PD copolymers**

