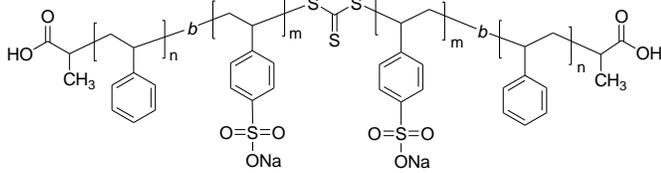


Sample Name: Poly(styrene-*b*-4-styrene sulfonic acid Sodium salt-*b*-styrene) triblock copolymer with RAFT moiety in center

Sample #: P16415A-S-SSO3Na-S

Structure:



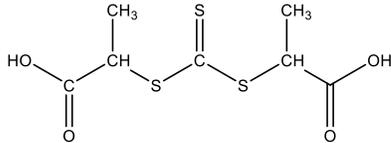
Composition:

Mn x 10 ³ S- <i>b</i> -SSO3Na- <i>b</i> -S	PDI
3.5- <i>b</i> -2.0- <i>b</i> -3.5	1.08

Synthesis Procedure:

The polymer was synthesized by RAFT process using following bifunctional initiator:

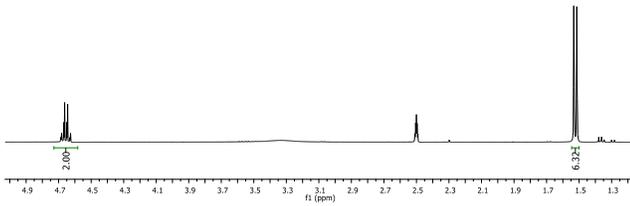
Structure:



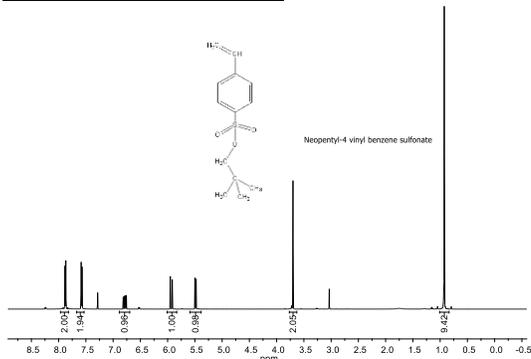
Characterization:

The chemical structure of the product was confirmed by FT-IR and ¹H NMR and GPC in DMF.

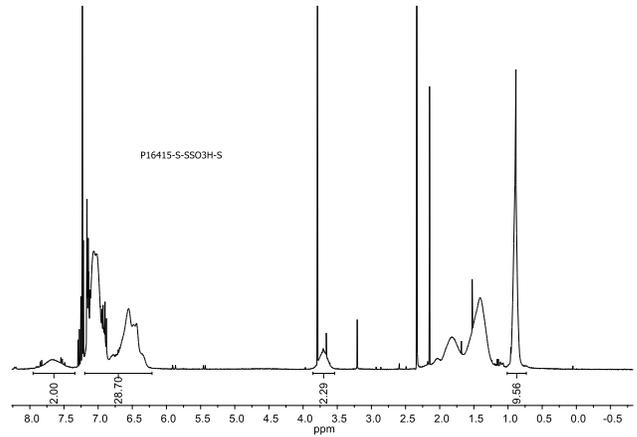
¹H NMR (400 MHz, DMSO-d₆) of RAFT



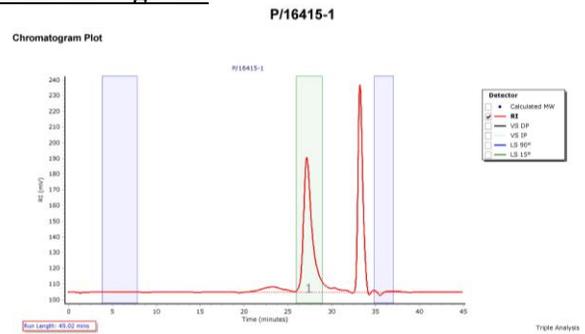
¹H NMR of Monomer:



¹H NMR of Triblock copolymer:



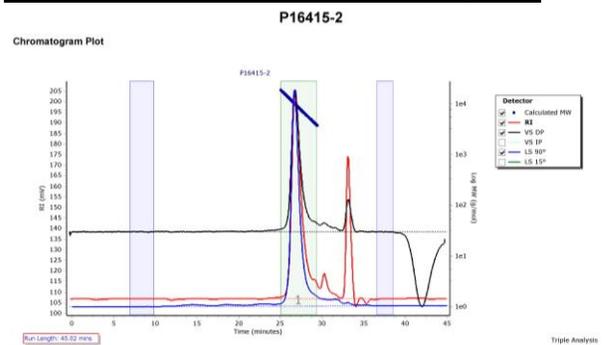
SEC chromatogram:



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	8042	6915	7414	7862	8266	7739	1.072

Processing Parameters
 Method: Last modified by Polymer Source at 3:21:24 PM on February-19-19
 Concentration Detector Used in: RI
 Analysis: 100.00
 Injection volume (μL): 1.00
 Flow rate (mL/min): Calculate Sample Concentration from Entered Sample Properties
 Concentration options: 0.184
 Entered dn/dc (mL/g):

SEC chromatogram of triblock copolymer:



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	9881	8365	8990	9527	10000	9424	1.075

Processing Parameters
 Method: Last modified by Polymer Source at 3:21:24 PM on February-19-19
 Concentration Detector Used in: RI
 Analysis: 100.00
 Injection volume (μL): 1.00
 Flow rate (mL/min): Calculate Sample Concentration from Entered Sample Properties
 Concentration options: 0.184
 Entered dn/dc (mL/g):