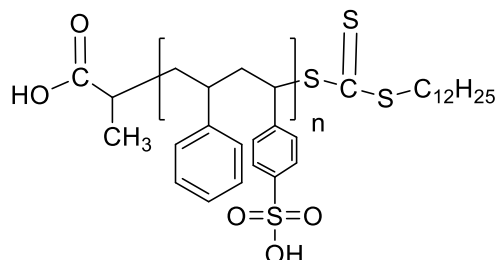


Sample Name:
POLY(STYRENE-CO-4-STYRENE SULFONIC ACID)-RAFT-agent terminated

Sample #: P42608-SSSO3H

Structure:

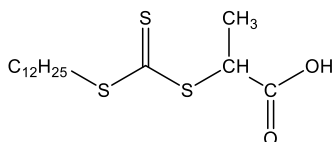


Composition:

$M_n \times 10^3$	PDI
31.5	1.06
Sulfonation	10%

Synthesis Procedure:

The polymer is prepared by RAFT polymerization process using following RAFT reagent:

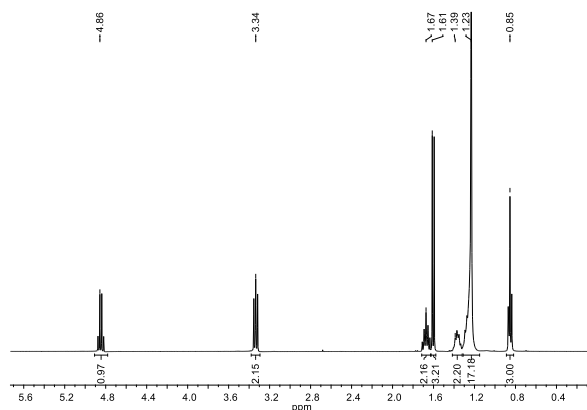


Chemical Formula: $C_{16}H_{30}O_2S_3$
Molecular Weight: 350.59

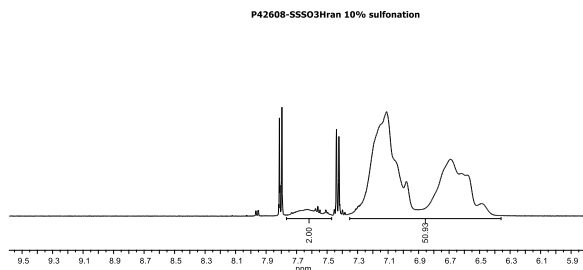
Characterization:

The molecular weight and polydispersity index (PDI) of the polymer are obtained by size exclusion chromatography (SEC) in THF as eluent.

1H -NMR spectrum of the RAFT ($CDCl_3$):

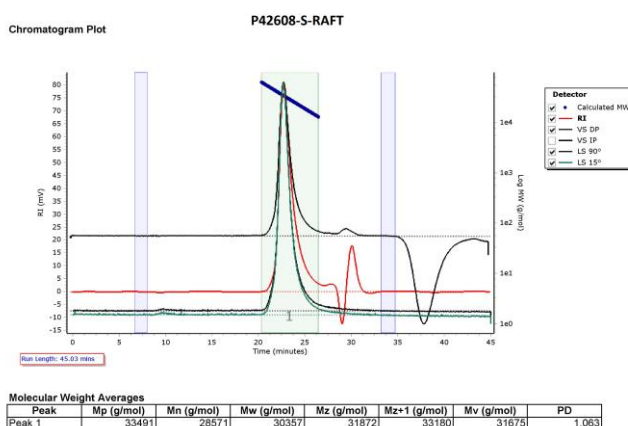


1H -NMR of the Polymer: First random block:



SEC profile of the PS-RAFT starting polymer:

Agilent GPC/SEC Software



Peak	M_p (g/mol)	M_n (g/mol)	M_w (g/mol)	M_z (g/mol)	M_{z+1} (g/mol)	M_v (g/mol)	PD
Peak 1	33491	28571	30357	31872	33180	31675	1.063