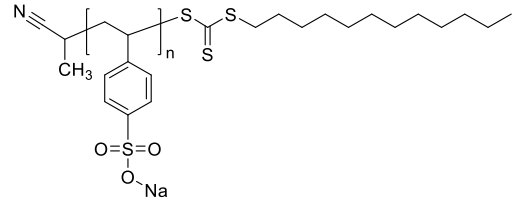
Sample Name: **Poly(styrene sulfonic acid sodium salt), ω-RAFT-terminated**

Sample #: **P41927-SSO3Na-RAFT**

Structure:

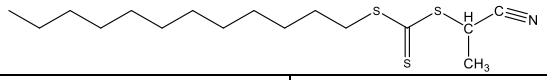


Composition:

Mn × 10^3 PSSO3Na-RAFT	PDI
1.8	1.2

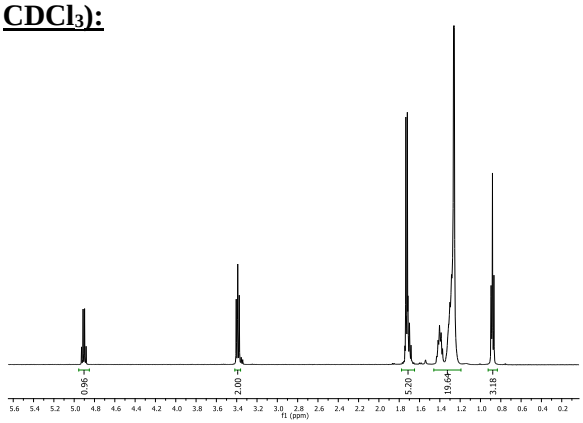
Synthesis:
The polymer was synthesized by RAFT polymerization
process.Following RAFT reagent was used:

Structure:



Molecular formula	C16H29NS3
Molecular weight	331.15
Purity:	> 95 %

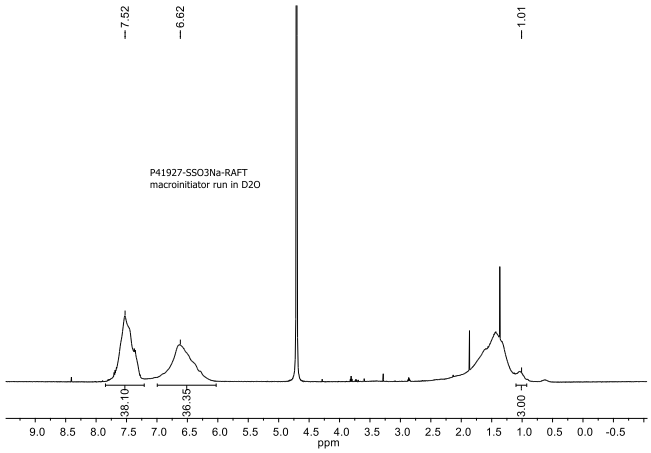
^{1}H NMR spectrum of the RAFT reagent (500 MHz, $CDCl_3$):



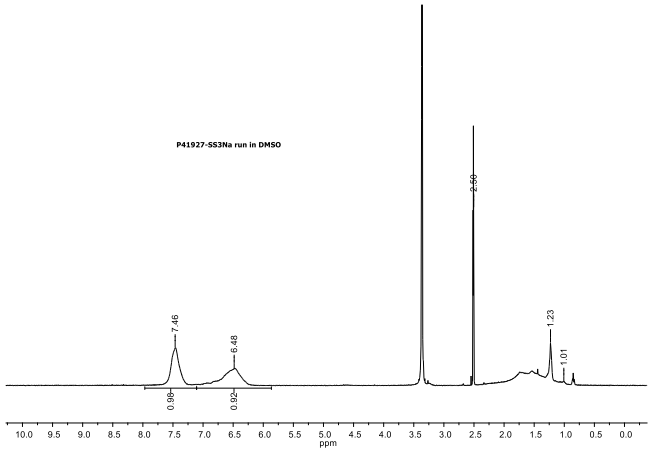
Characterization:
The product was characterized by size exclusion chromatography (SEC) in DMF as eluent and ^{1}H NMR.

Solubility: The polymer is soluble in DMSO.

HNMR of the Poly-4-styrene sulfonate macroinitiator run in D2O:



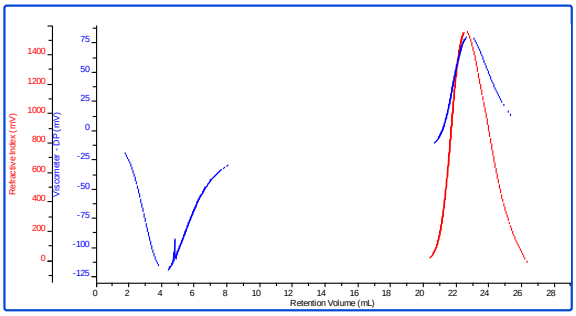
HNMR spectrum of the Sample run in DMSO:



SEC elugram of the sample:

P41927-SSO3Na/Hcl

dn/dc	0.1550
Flow Rate	0.7000
Solvent	DMF with LiBr
Method	PSS column-PMMA60K-Jan3-2019-0004.vcm



Sample	Mn	Mw	Mp	Mw/Mn
P41927_1_2019-07-28	1,872	2,280	1,475	1.218