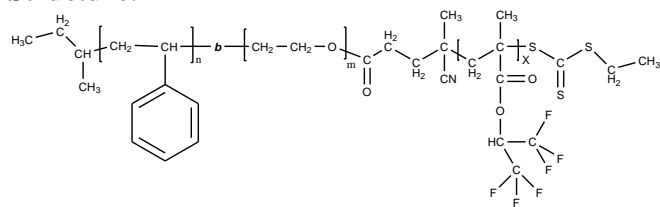


Sample Name: Poly(styrene-b-ethylene oxide-b-1,1,1,3,3,3-Hexafluoroisopropylmethacrylate)

Sample #: P41545-SEOHFIPMA

Structure:



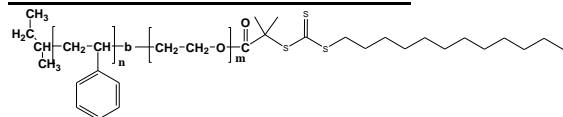
Composition:

Mn x 10 ³ S-b-EO-b-HFBMA	PDI
9.0-b-19.5-b-35.0	1.02

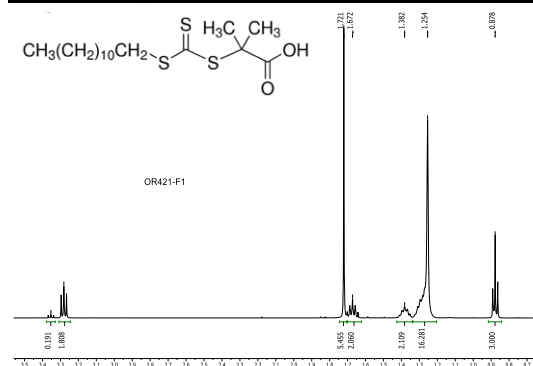
Synthesis Procedure:

The polymer was prepared by combination of anionic and RAFT polymerization process.

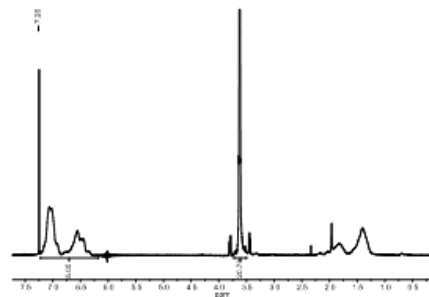
RAFT macroinitiator structure:



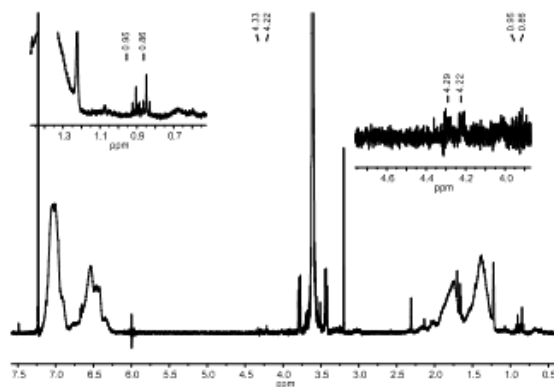
¹H NMR spectrum of the RAFT macroinitiator:



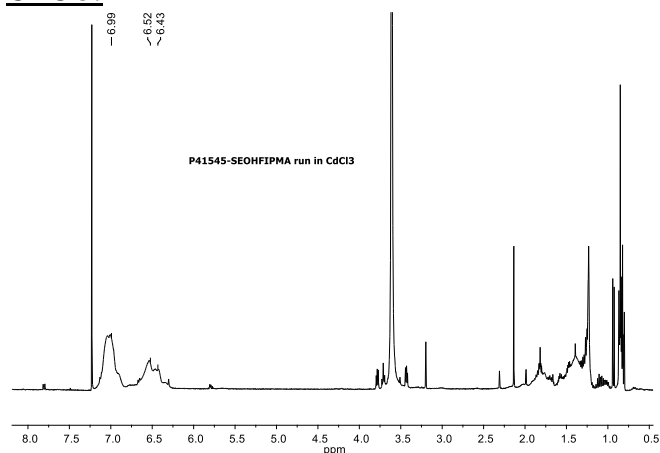
¹H NMR spectrum of the SEO Sample in CdCl3:



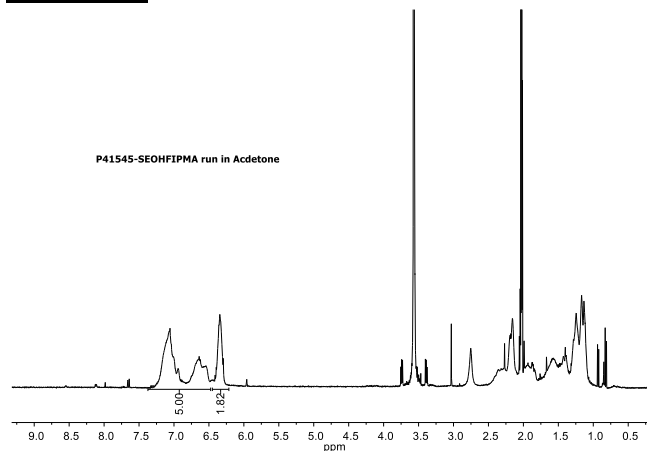
¹H NMR spectrum of SEO-terminated with RAFT in CDCl3:



¹H NMR spectrum of the SEOHFIPMA Sample in CDCl3:

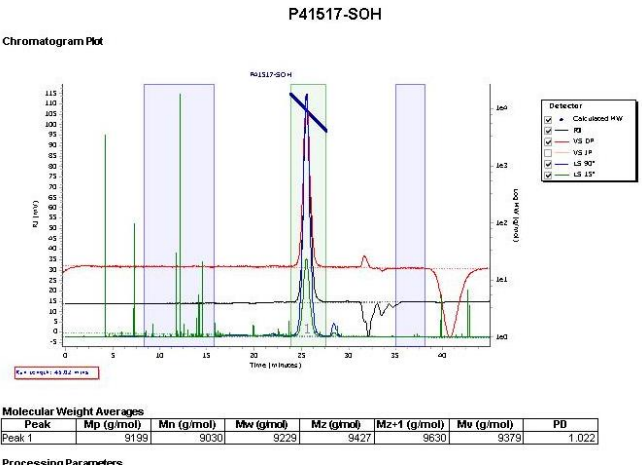


¹H NMR spectrum of the SEOHFIPMA Sample in d6-Acetone

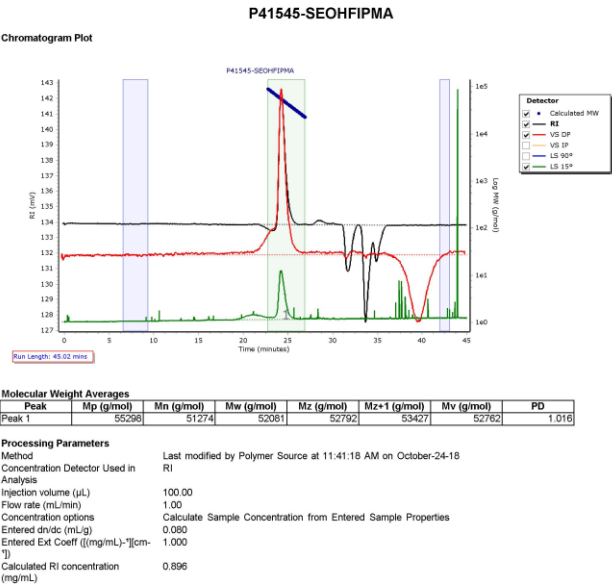


SEC elugram of the SOH Sample:

Agilent GPC/SEC Software

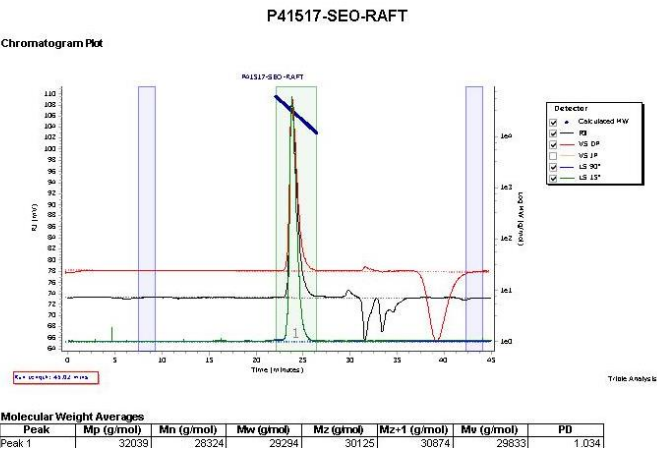


Agilent GPC/SEC Software



SEC elugram of SEO-terminated with RAFT:

Agilent GPC/SEC Software



Solubility in Different solvents

CHCL3	Insoluble
THF	Clear at 35 °C
Acetone	Soluble at Room temperature
DMF	Insoluble

GPC of the final polymer shows elution counts retarded in comparison to SEO RAFT diblock copolymer. From GPC only, molecular weight distribution calculated and compositions from its HNMR analysis.

Furthermore, Homo poly Hexafluoroisopropyl methacrylate polymer shows negative dn/dc in THF.