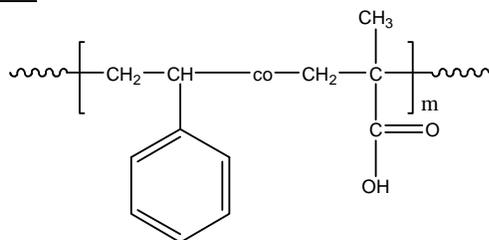


**Sample Name:** Random copolymer Poly(styrene-co-methacrylic acid)

**Sample #** P14777-SMAAran

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup> PS-co-PMAA	PDI
188.0	1.35
PS (mol%):	99

**Synthesis Procedure:**

The polymer was prepared by controlled radical (RAFT) process.

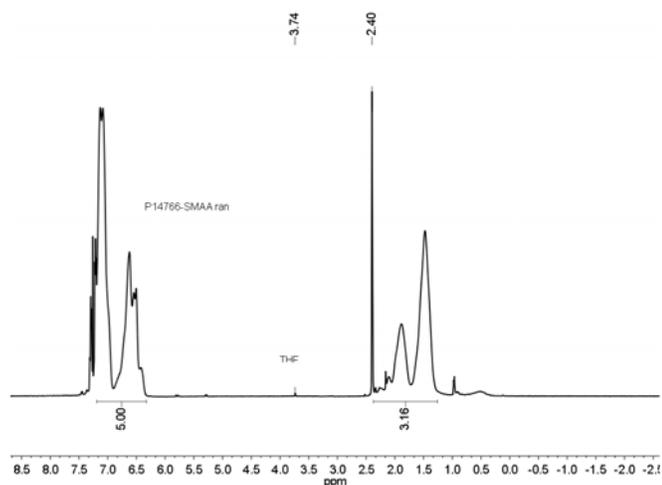
**Characterization:**

The copolymer composition was determined from <sup>1</sup>H-NMR spectroscopy. The molecular weight and polydispersity index were determined by size exclusion chromatography (SEC) THF at 35°C.

**Solubility:**

The polymer is soluble in acetone; and insoluble in ether, hexane.

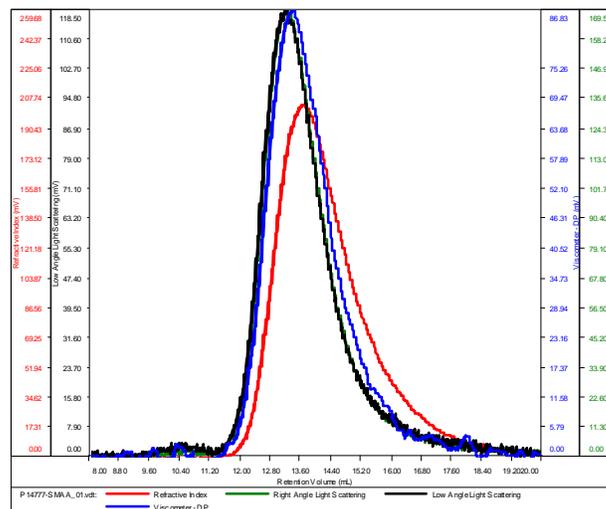
**1H NMR spectrum (500 MHz, CDCl<sub>3</sub>):**



**SEC elugram:**

**SAMPLE ID:** P14777-SMAA

Conc (mg/mL)	4.3209
dn/dc (mL/g)	0.1650
Method	ps80kJune2014-0000.vcm
Solvent	DMF w 0.03M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P14777-SMAA_01.vdt	188,268	250,184	255,197	1.329	0.4516