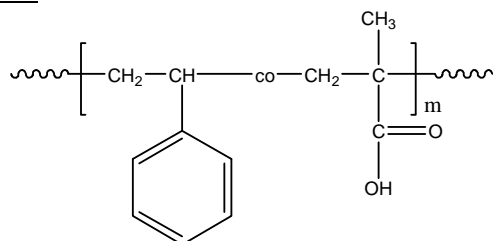


**Sample Name:** Random copolymer Poly(styrene-co-methacrylic acid)

**Sample #** P14776A-SMAAran

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup> PS-co-PMAA	PDI
74.0	1.22
PS (mol%):	99
Tg	141°C

**Synthesis Procedure:**

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

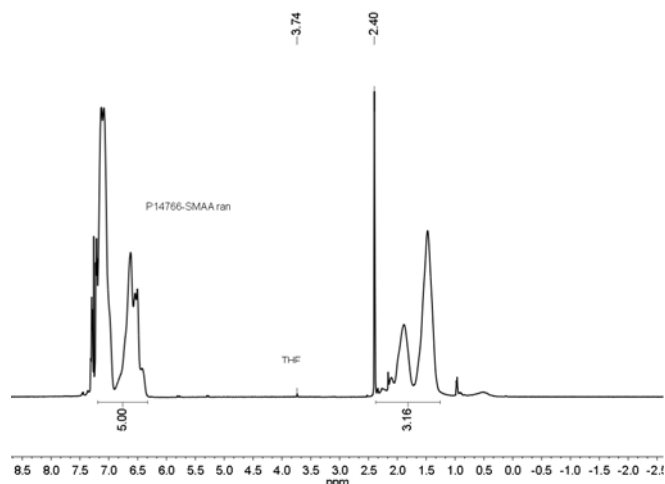
**Characterization:**

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.

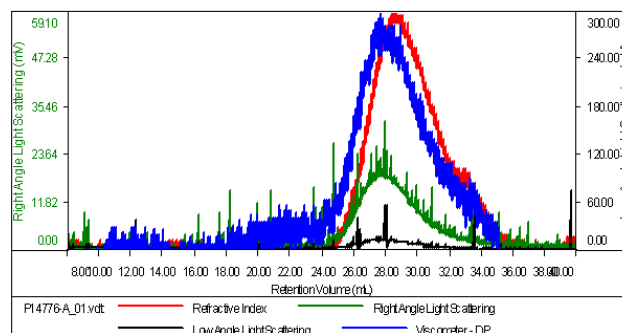
**1H NMR spectrum (500 MHz, CDCl<sub>3</sub>):**



**SEC elugram:**

**Sample ID:** P14776A-SMAAran

Concentration (mg/mL)	0.5968
Sample dn/dc (mL/g)	0.1860
Method File	PS80-August 25-2014-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn	Mw	Mp	Mw/Mn	IV
P14776A_01.vdt	73,772	89,761	98,894	1.217	0.9405

