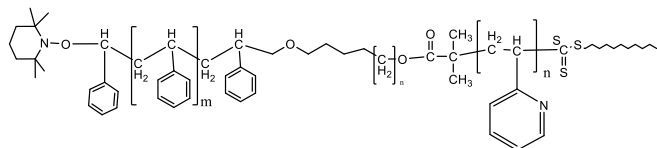


**Sample Name:** Poly(styrene)-b-poly(methylene)-b-poly (2-Vinyl Pyridine)

**Sample #:** P42194C-SM2VP

### Structure:

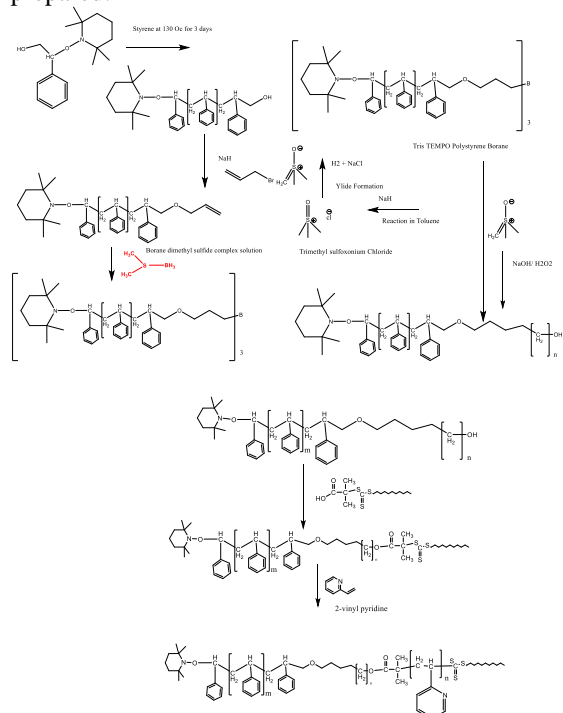


### Composition:

Mn x 10 <sup>3</sup> S-b-M-b-2VP	PDI
2.5-b-1.5-b-22.0	1.4

### Synthesis Procedure:

The following reaction scheme shows how the product was prepared:



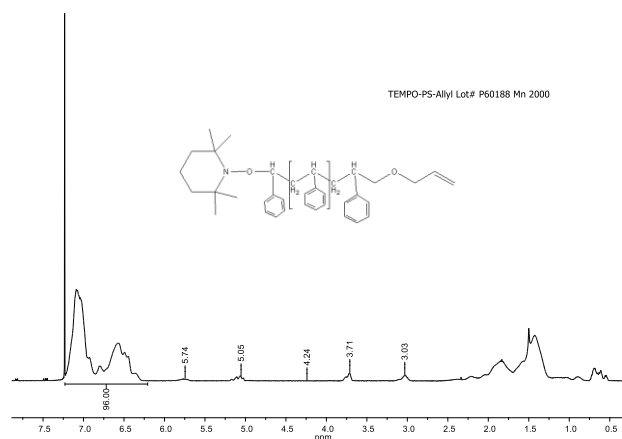
### Characterization:

The product was characterized by size exclusion Chromatography (SEC) and <sup>1</sup>H NMR in CdCl<sub>3</sub> and in chlorobenzene.

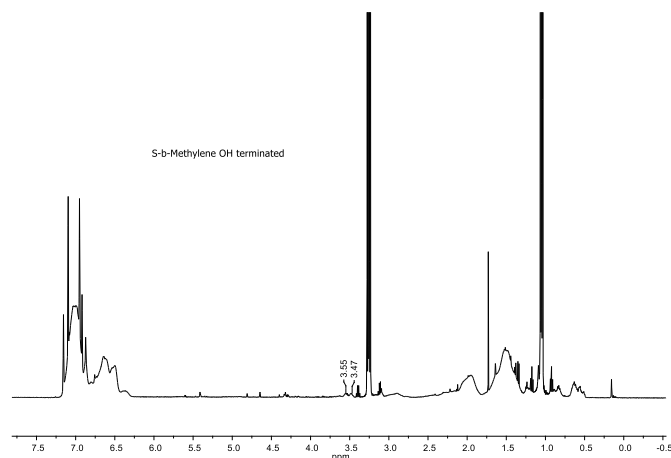
### Solubility:

Polymer is soluble in warm toluene and in dichlorobenzene.

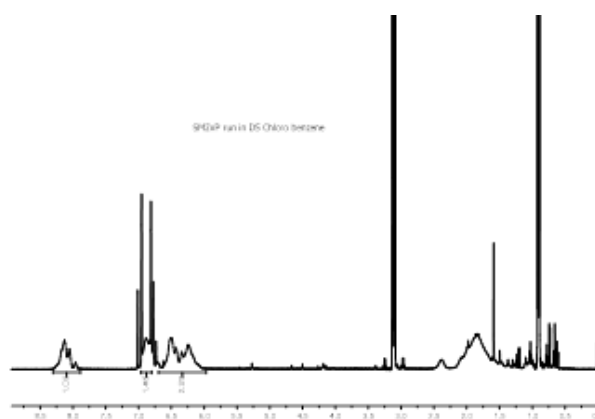
### <sup>1</sup>H-NMR of the Allyl terminated Poly Styrene:



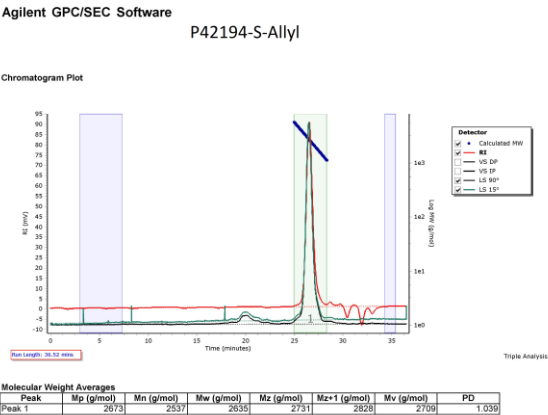
### <sup>1</sup>H-NMR Spectrum of the SM block copolymer:



### <sup>1</sup>H-NMR Spectrum of the Sample:



**SEC elugram of the Ally terminated Poly Styrene:**



GPC of the diblock copolymer carried out in Toluene the elution volume was higher than its polystyrene allyl precursor. The Mw/MN is increased from 1.03 to 1.08 HNMR calculate the composition which is comparable to its yield of the polymer.

**SEC elugram of the Sample:**

