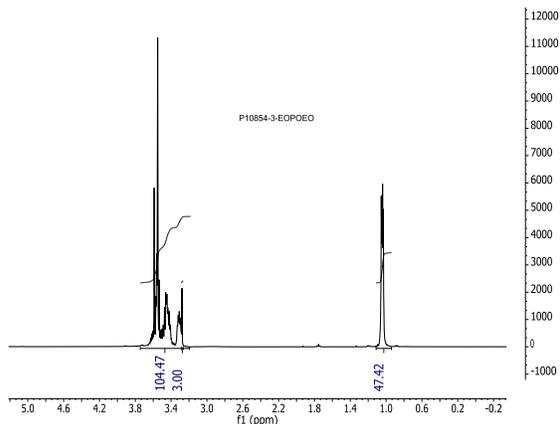
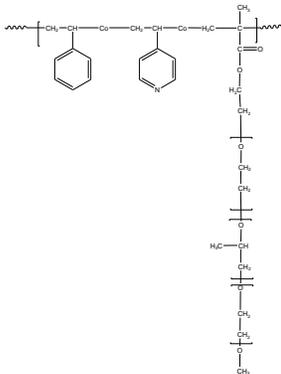


Sample Name: Random copolymer of styrene:
4vinylpyridine and triblock copolymer of EOPEO

Sample #: P11311A-S4VPEOPEOran

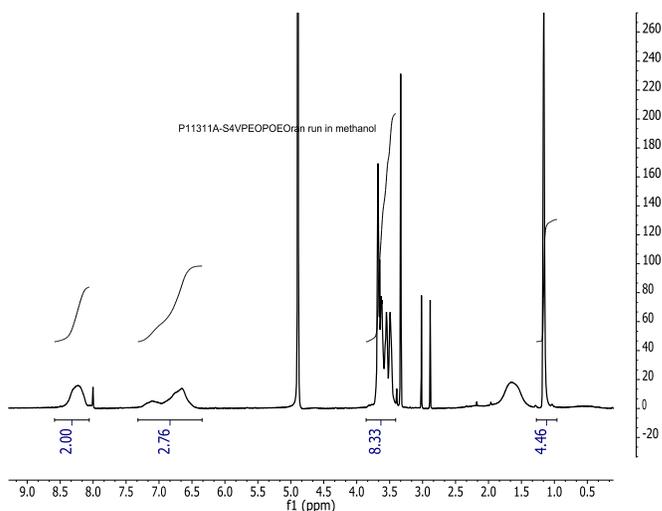
Structure:



HNMR of the random copolymer:

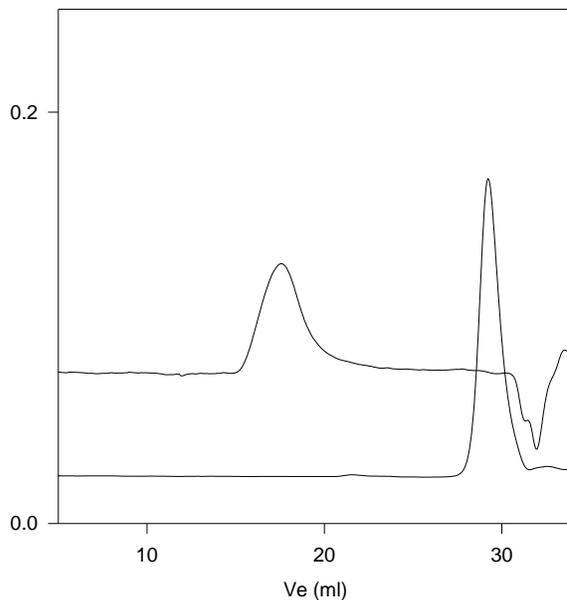
Composition:

Mn × 10 ³	PDI
890.0 w.r.t Polystyrene reference	5.0
S: 4VP: ratio	14:86
4VP:EOPEO ratio	40:60
S:4VP:EOPEO ratio After normalization	8.0:47:46
Macromonomer Lot # P10873 EOPEO-MA 0.450-b-1.4-b-0.300 Dp; 11-b-24-b-7	



SEC of the copolymer:

P11311A-S4VPEOPEO ran
Run in DMF at 60 oC



— First Block :EOPEO: Mn 400-b-1400-b-300 Mw/Mn 1.09

Random S4VPEOPEO: Mn=890,000, Mw=4,450,000, PI=5.0

Characterization:

Polymer analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The final block copolymer composition was calculated from ¹H-NMR spectroscopy.

Solubility:

The polymer is soluble in acetone, DMF, methanol and precipitates from, ether and hexane.

HNMR of EOPEO Macromonomer: EOPEO

First Block mPEG

