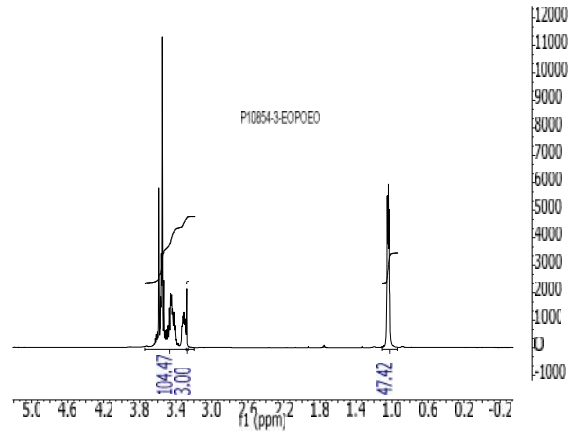
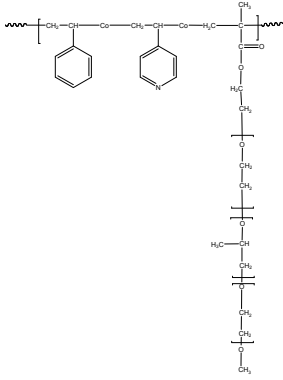


Sample Name: Random copolymer of styrene:
4vinylpyridine and triblock copolymer of EOPEO
Sample #: P14602A-S4VPEOPEOran

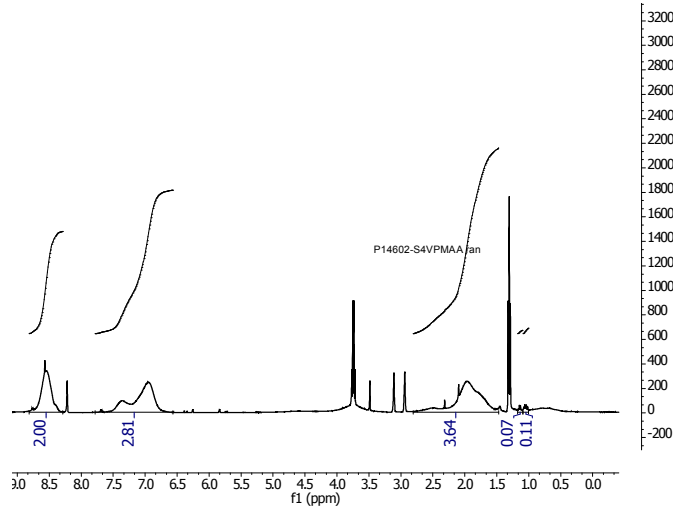
Structure:



HNMR of the random copolymer: S4VPMAA ran

Composition:

Mn × 10 ³	PDI
645.0	4.5
S: 4VP: ratio	11:89
4VP:EOPEO ratio	48:52
S:4VP:EOPEO ratio After normalization	6.0:45:48
Macromonomer Lot # P10873 EOPEO-MA 0.30-b-1.7-b-0.600 Dp; 7-b-29-b-14	



Characterization:

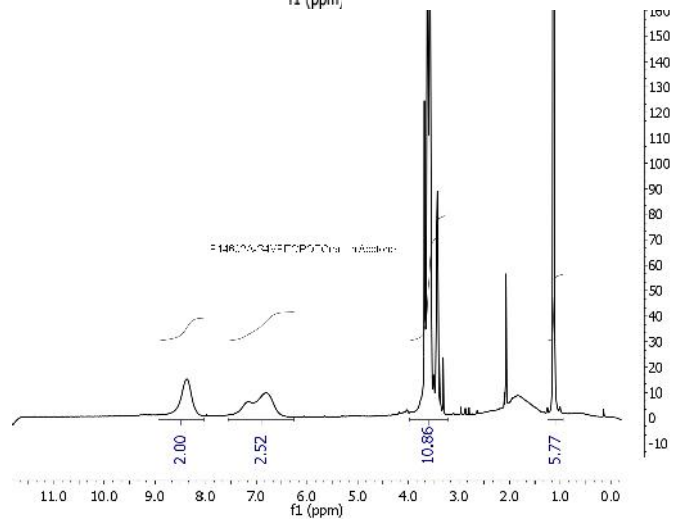
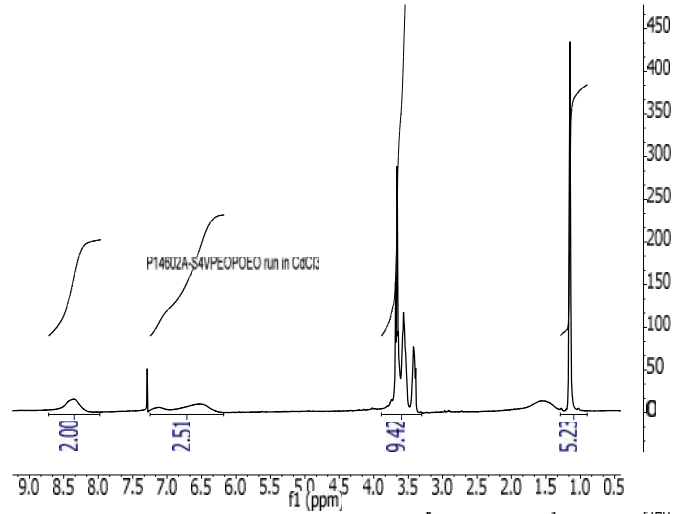
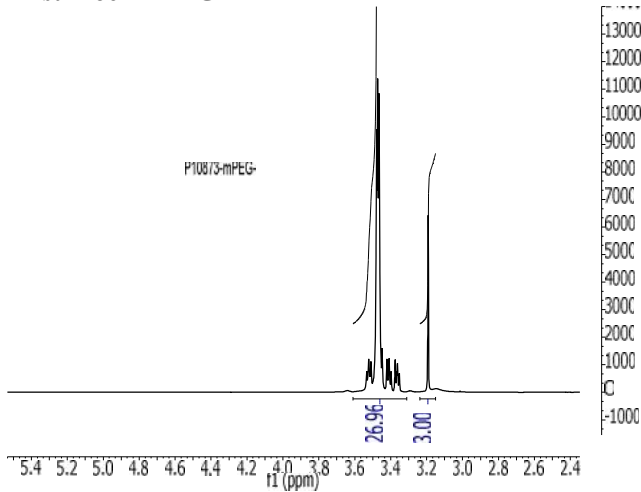
Polymer analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The final block copolymer composition was calculated from ¹H-NMR spectroscopy.

Solubility:

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

HNMR of EOPEO Macromonomer: EOPEO

First Block mPEG



The esterification of Methacrylic acid to its ester with block copolymer of EPPOEO can be quantified using FTIR. Free COOH absorption at 1708 cm⁻¹ shifted to 1720 cm⁻¹ after esterification reaction.

