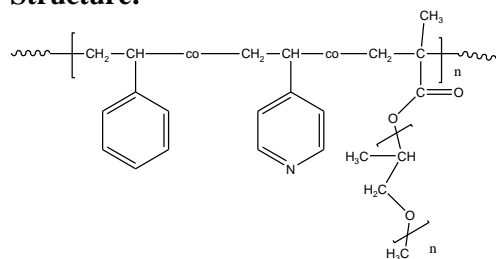


Sample Name: Random Copolymer Poly(styrene-co-4-vinylpyridine-co-propylene glycol methyl ether methacrylate)

Sample #: P41001A-S4VPPGM Aran

Structure:



Composition:

Mn x 10 ³ PS-co-P4VP-co-PGMA	PDI
35.0	1.17
S:4VP:PGMA mole ratio	10:70:20
Mn of Propylene glycol methyl ether methacrylate : ~2000	Values of n : 34 units

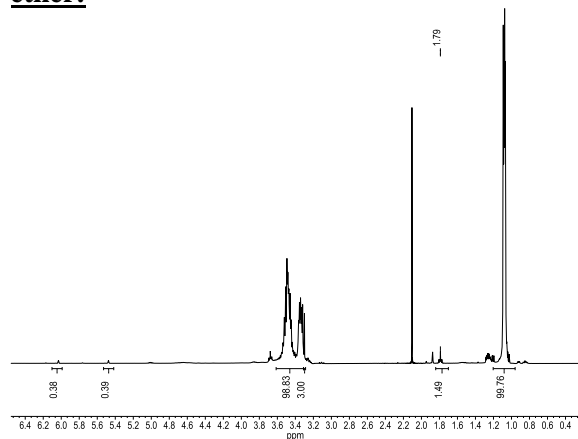
Synthesis Procedure:

The polymer was prepared by RAFT polymerization of styrene, 4-vinylpyridine, and poly (propylene glycol) methyl ether methacrylate (M_n[PPO]=2000 g/mol). Lot P40994

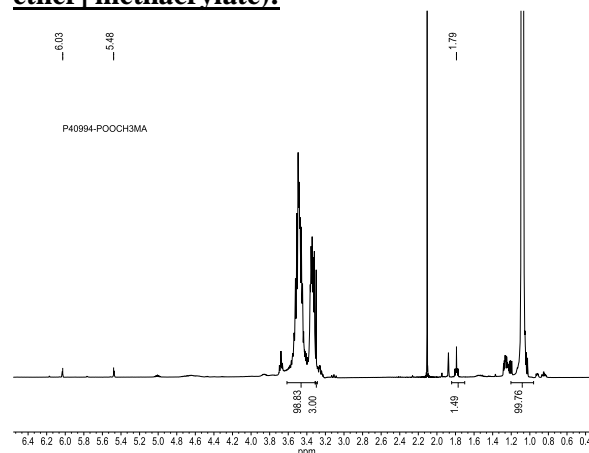
Characterization:

The polymer was characterized by ¹H-NMR and size exclusion chromatography (SEC).

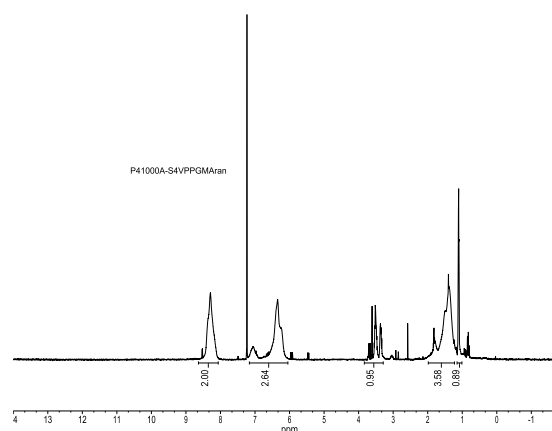
¹H-NMR spectrum of poly (propylene oxide) methyl ether:



¹H-NMR spectrum of poly ([propylene oxide methyl ether] methacrylate):



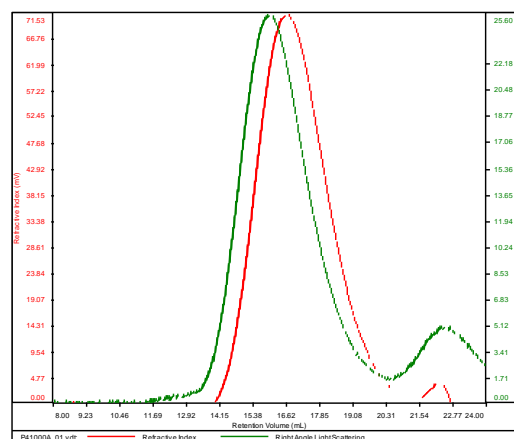
¹H-NMR Spectrum of the random copolymer:



SEC of the random copolymer:

P41001A-S4VPPGM Aran

Conc	5.5192
dn/dc	0.1650
Solvent	DMF w/ 0.023M LiBr
Flow Rate	0.7000
Method	PS80K_2018-03-09-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P41000A_01.vdt	35,118	41,353	36,413	1.178	0.1875