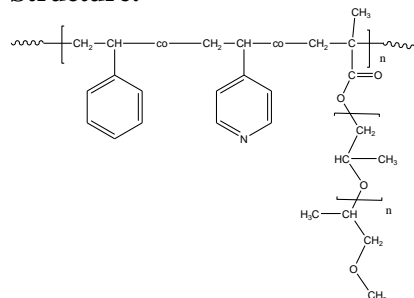


Sample Name: Random Copolymer Poly (styrene-co-4-vinylpyridine –co-propylene glycol methyl ether methacrylate)

Sample #: P41029-S4VPPGMAran

Structure:



Composition:

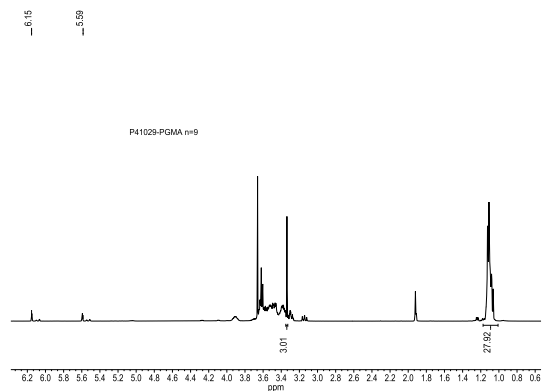
$M_n \times 10^3$	PDI
34.0	1.25
S:4VP: PGMA mole ratio	6:70:24
Mn of Poly(propylene glycol) methacrylate	594

propylene glycol methacrylate bearing 9 repeat units of propylene glycol

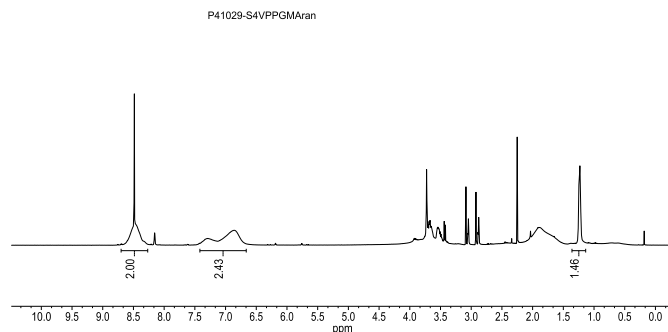
Characterization:

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

$^1\text{H-NMR}$ of macromonomer of propylene glycolmethacrylate used in this synthesis Lot # P41029:



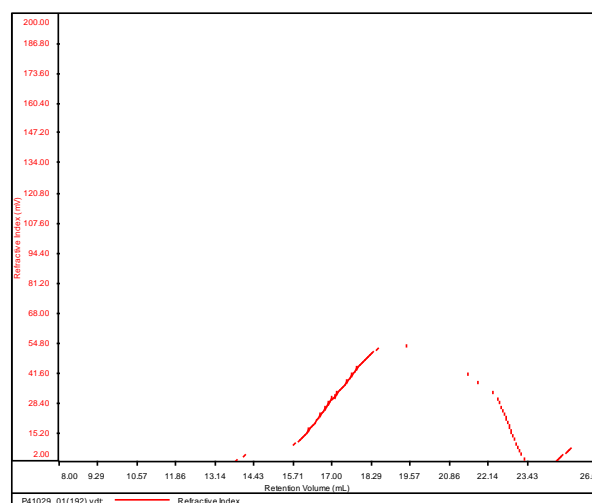
$^1\text{H-NMR}$ spectrum of the polymer:



SEC elugram of the copolymer:

P41029-S4VPPGMAran

Conc	7.2042
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
P41029_01(192).vdt	34,354	42,534	33,103	1.238	0.1490