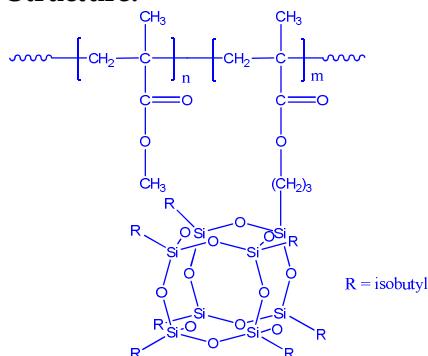


Sample Name:

Poly(methyl methacrylate-b-isobutyl-POSS methacrylate)

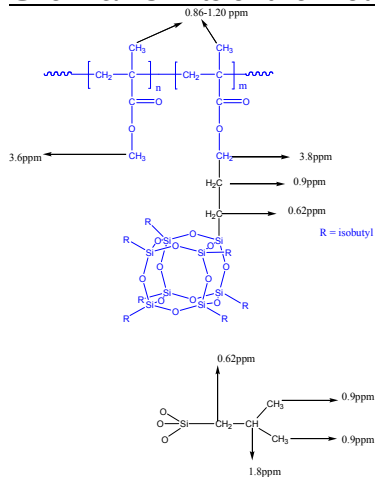
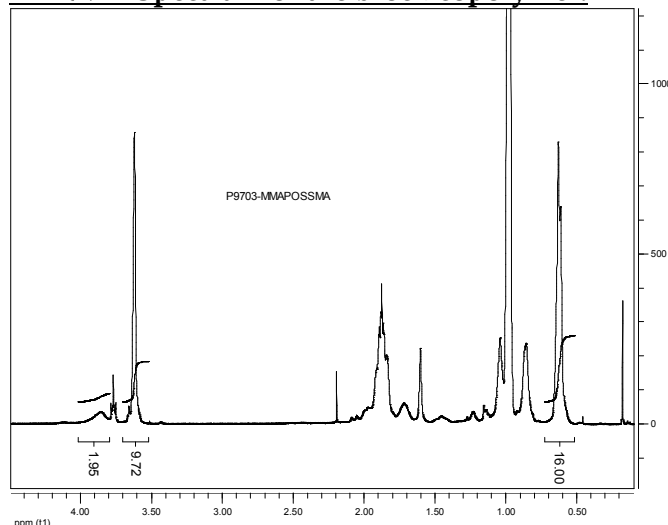
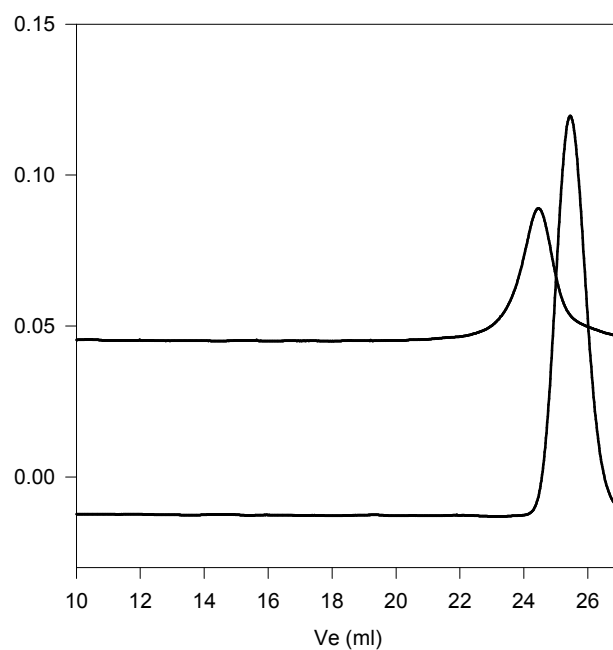
Sample #: P9704-MMAPOSSMA**Structure:****Composition:**

Mn × 10 ³ MMA-b-POSSMA	PDI
5.0-21.0	1.25

Synthesis Procedure: Poly(Methyl methacrylate-b-isobutyl-POSS methacrylate) Block copolymer is synthesized by living anionic polymerization with sequence addition of methyl methacrylate followed by addition of POSS methacrylate monomer. The obtained polymer was precipitation in methanol.

Characterization: Polymer was analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The final block copolymer composition was calculated from HNMR.

Solubility: Polymer is soluble in THF, toluene. It is precipitated into methanol.

Chemical Shifts of the Products:**¹H-NMR Spectrum of the block copolymer:****SEC of the block copolymer:****P9704-MMAPOSSMA**

— Poly(methyl methacrylate): $M_n=5000$, $M_w=5800$, $M_w/M_n=1.15$

— Block Copolymer MMA(5000)-b-POSSMA(21000), $M_w/M_n=1.25$