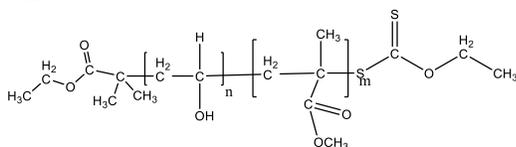


**Sample Name: Poly (vinyl alcohol–b–methyl methacrylate)**

**Sample #: P42345H-VAMMA**

**Structure:**



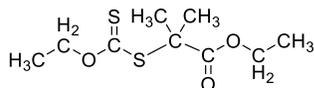
**Composition:**

$M_n \times 10^3$ VA–b–MMA	PDI
5.5-b-224.0	1.48
Solubility: Methanol Cloudy; DMSO clear solution	

**Synthesis Procedure:**

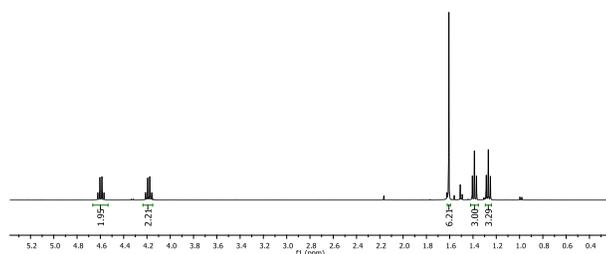
The polymer was synthesized by RAFT polymerization process using following RAFT reagent:

**Structure:**



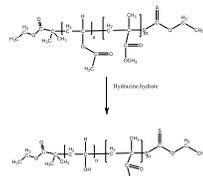
Chemical Formula:  $C_9H_{16}O_3S_2$   
Exact Mass: 236.05

**$^1H$  NMR spectrum of RAFT (400 MHz,  $CDCl_3$ ):**

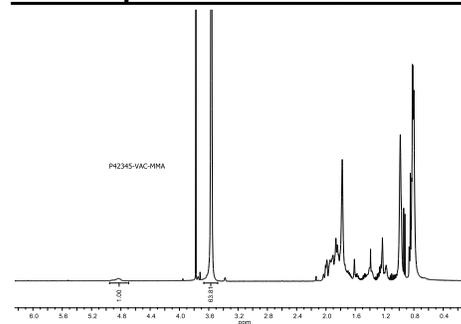


**Characterization:**

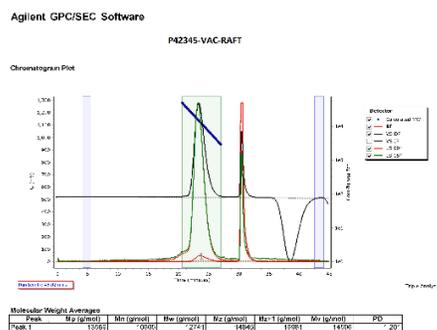
The product was characterized by size exclusion chromatography (SEC),  $^1H$  NMR and FTIR.



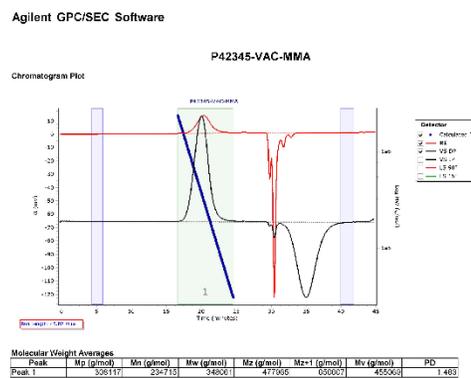
**$^1H$  NMR spectrum of PVAC–b–PMMA:**



**SEC of PVAC-RAFT Macroinitiator:**



**SEC of the block copolymer:**



**FTIR spectrum of the Polymer:**

