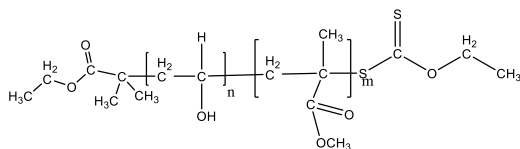


**Sample Name:** Poly (vinyl alcohol–b–methyl methacrylate)

**Sample #:** P42345BH-VAMMA

**Structure:**



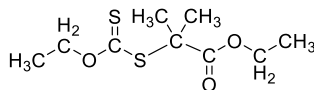
**Composition:**

$M_n \times 10^3$ VA-b-MMA	PDI
5.5-b-3.5	2.9
Solubility: Methanol Cloudy; DMSO clear solution	

**Synthesis Procedure:**

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

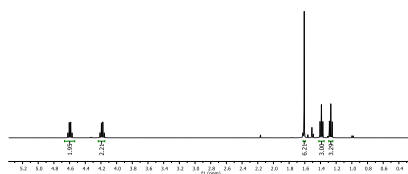
**Structure:**



Chemical Formula:  $C_9H_{16}O_3S_2$

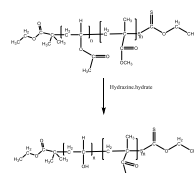
Exact Mass: 236.05

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

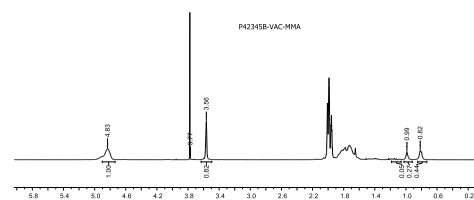


**Characterization:**

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

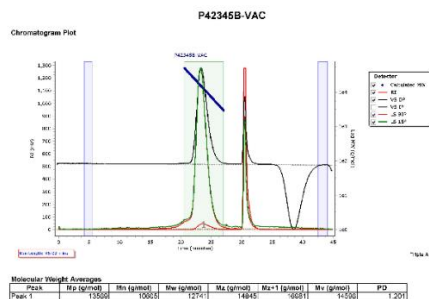


**HNR of PVAC–b–PMMA**



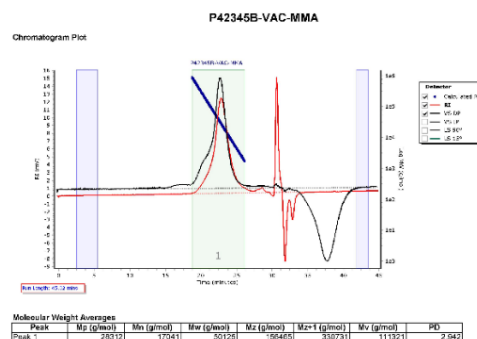
**SEC of PVAC-RAFT Macroinitiator:**

Agilent GPC/SEC Software



**SEC of the block copolymer:**

Agilent GPC/SEC Software



**FTIR spectrum of the Polymer:**

