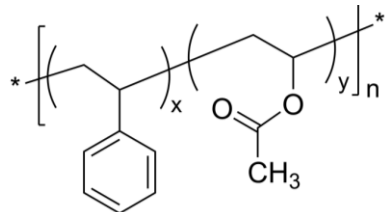


**Sample Name:**  
**Poly(styrene-co-vinyl acetate), random**

**Sample #:** P42311A-SVAcran

**Structure:**



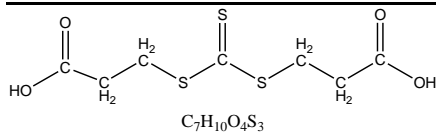
**Composition:**

Mn x 10 <sup>3</sup> PS-co-VA	PDI
43.5	2.6
PS (mol%): 97.0	

**Synthesis Procedure:**

Random Copolymer Poly(styrene-co-vinylacetate) is prepared by RAFT polymerization process.

**RAFT macroinitiator used in this synthesis:**

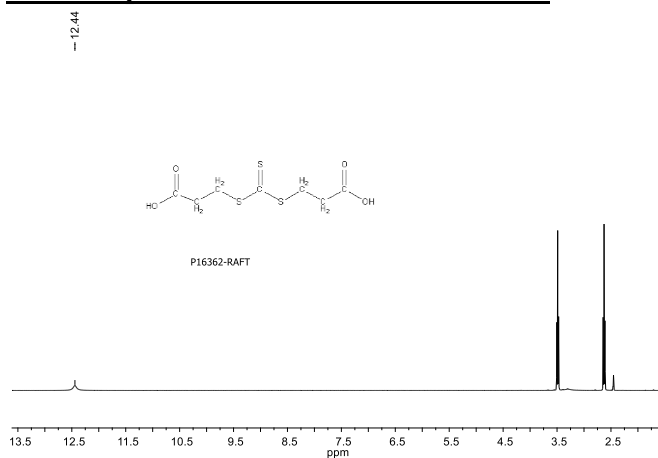


C<sub>7</sub>H<sub>10</sub>O<sub>4</sub>S<sub>3</sub>

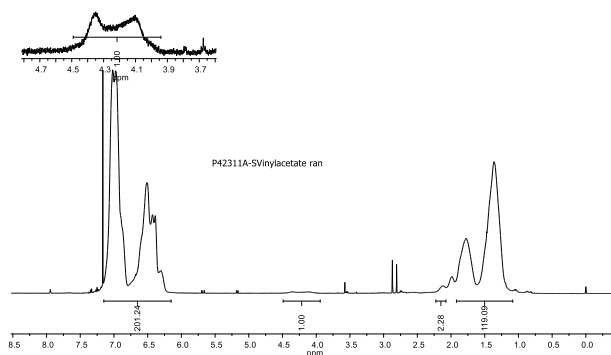
Mol. Wt.: 254.35

C, 33.06; H, 3.96; O, 25.16; S, 37.82

**<sup>1</sup>H NMR spectrum of RAFT macroinitiator:**

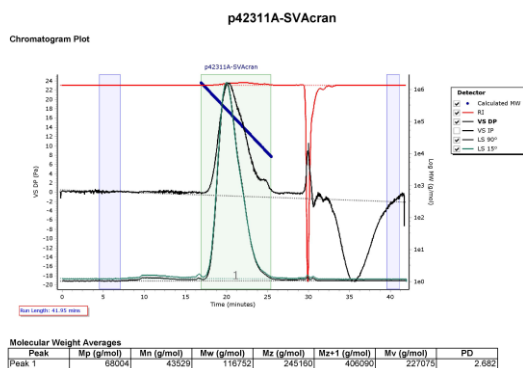


**<sup>1</sup>H NMR spectrum of the Sample:**

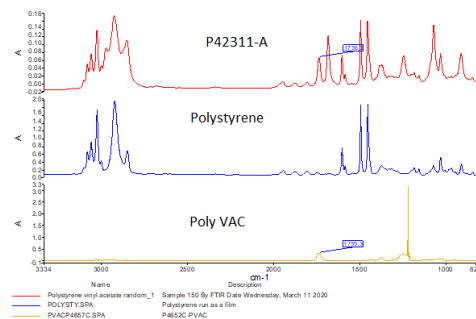


**SEC elugram of the random copolymer:**

Agilent GPC/SEC Software



**FTIR of the polymer Vs polystyrene and Poly vinylacetate:**



**Characterization:**

The product was characterized by size exclusion chromatography (SEC), <sup>1</sup>H NMR and FTIR data analysis.