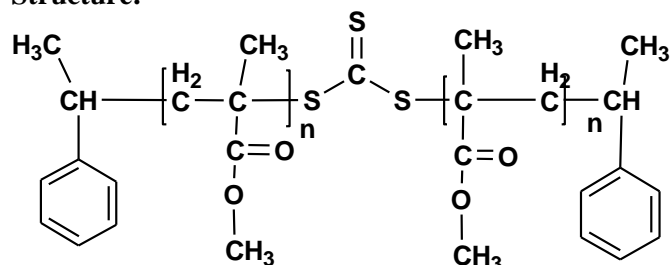


**Sample Name:** Trithiocarbonate RAFT moiety in the center of Poly methylmethacrylate chains

**Sample #:** P16295-MMA-RAFT-MMA

**Structure:**

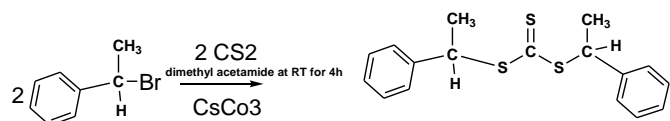


**Composition:**

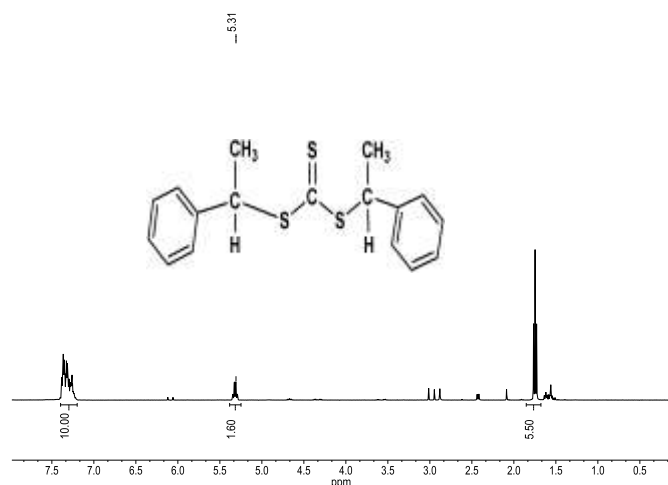
$M_n \times 10^3$	PDI
72.5	1.26

**Synthesis Procedure:**

The polymer is prepared By RAFT polymerization process using following RAFT reagent:



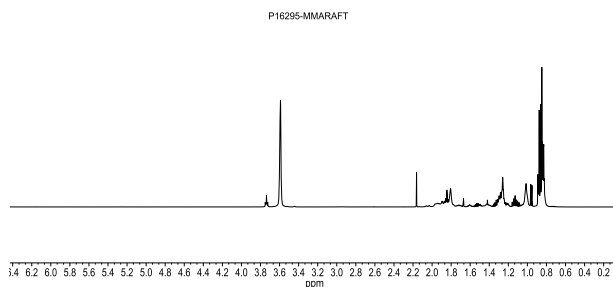
**$^1\text{H}$  NMR of the RAFT reagent:**



**Characterization:**

The molecular weight and polydispersity index (PDI) of the polymer are obtained by size exclusion chromatography (SEC), and  $^1\text{H}$ NMR analysis.

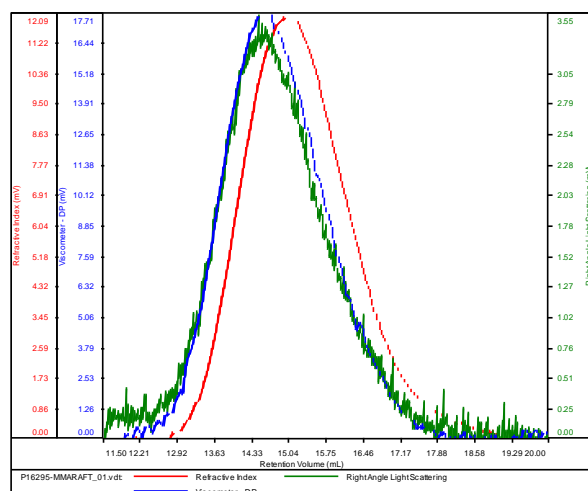
**$^1\text{H}$ NMR spectrum of the Polymer:**



**SEC elugram of the polymer:**

P16295-MMARAFT

Conc	1.7413
dn/dc	0.0700
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS80k_2017-11-07-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P16295-MMARAFT_01.vdt	72,644	92,001	74,162	1.266	13.6432