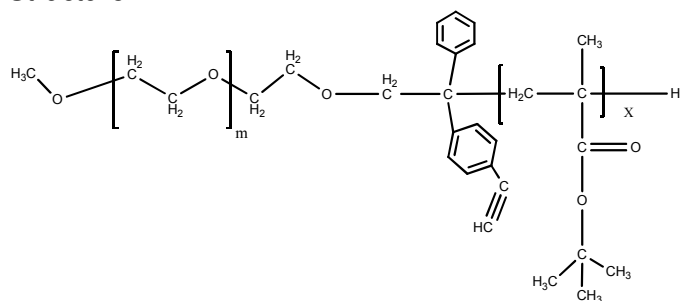


Sample Name:

**Poly(ethylene oxide-*b*-tert butylmethacrylate)**  
bearing (4'-ethynyl phenyl-phenyl)ethylene at the  
junction of EO and tBuMA blocks.

Sample #: **P18362-EO(acetylene)tBuMA**

Structure:



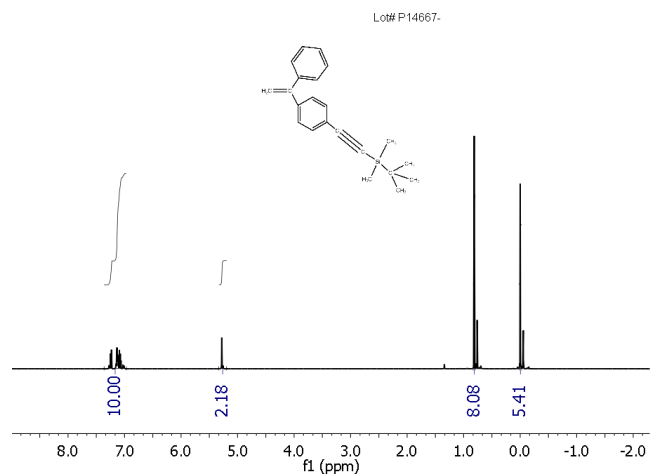
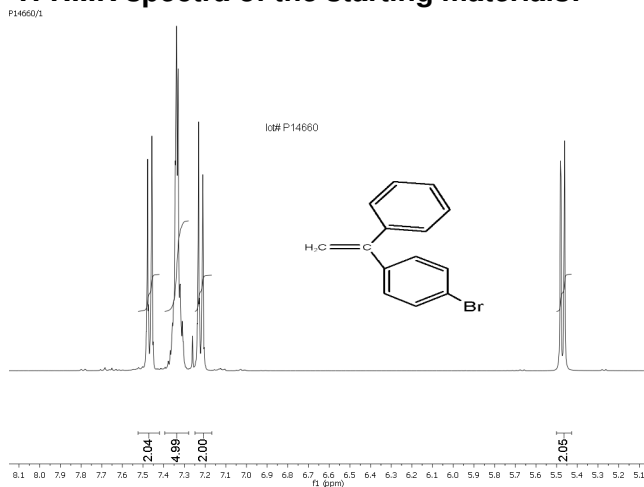
**Composition of PEO-*b*-PtBuMA:**

$M_n \times 10^3$ (g/mol)	PDI
5.0-b-12.0	2.0

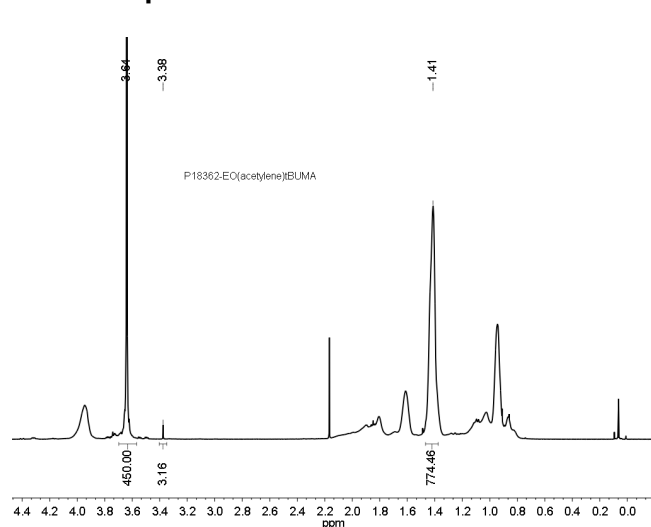
**Synthesis and Characterization:**

The polymer was synthesized by anionic living polymerization, and characterized by  $^1\text{H}$  NMR spectroscopy and SEC chromatography.

**$^1\text{H}$ -NMR spectra of the starting materials:**



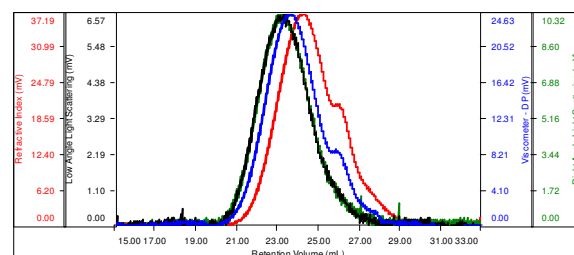
**$^1\text{H}$ -NMR spectrum of the PEO-*b*-PtBuMA:**



**SEC-LS elugram (eluent: THF):**

**Sample ID: P18362-EO-Acetylene-tBuMA**

Concentration (mg/mL)	8.6562
Sample dn/dc (mL/g)	0.0840
Method File	PS80K-March7-2014-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
p18362_01.vdt	17,952	37,212	32,185	2.073	0.1895