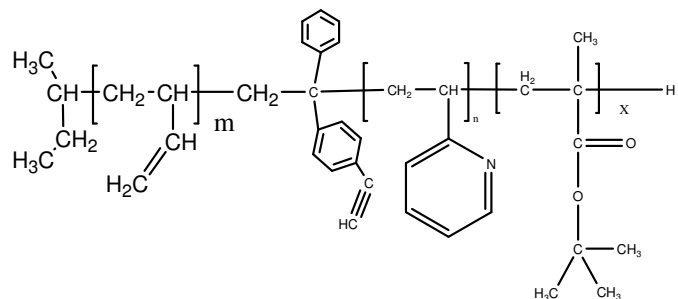


Sample Name:

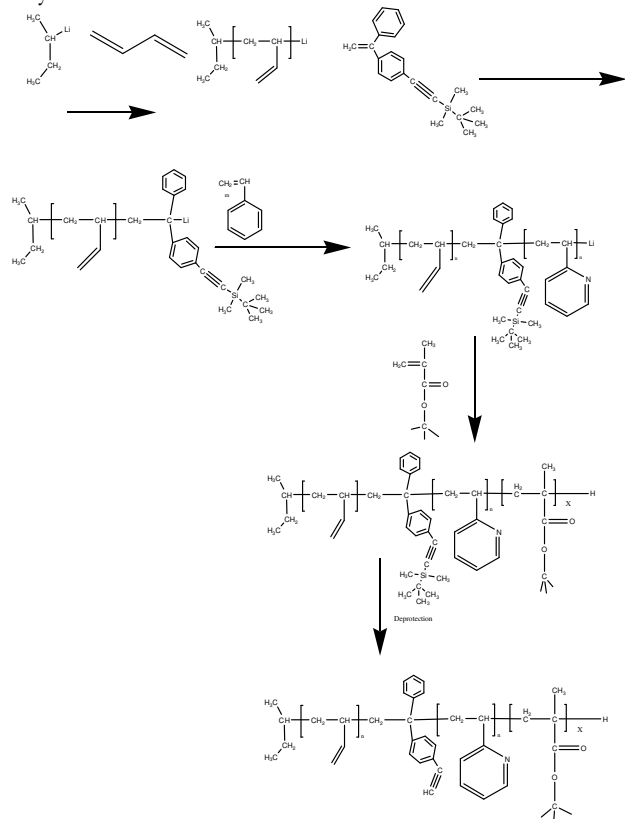
Poly(Butadiene-b-2-vinyl pyridine-tertbutyl methacrylate) bearing ethynyl (acetylenic triple bond) phenyl-phenyl ethylene at the junction of Bd-2VP block

Sample #: P18687-Bd(acetylene) 2VPtBuMA**Structure:****Composition:**

| | |
|---|------|
| Mn x 10 ³ | PDI |
| Bd-b-2VP-b-tBuMA | |
| 18.5-b-31.0-32.0 | 1.5 |
| The final Block contain traces amount of diblock copolymer Difficult to remove | <10% |

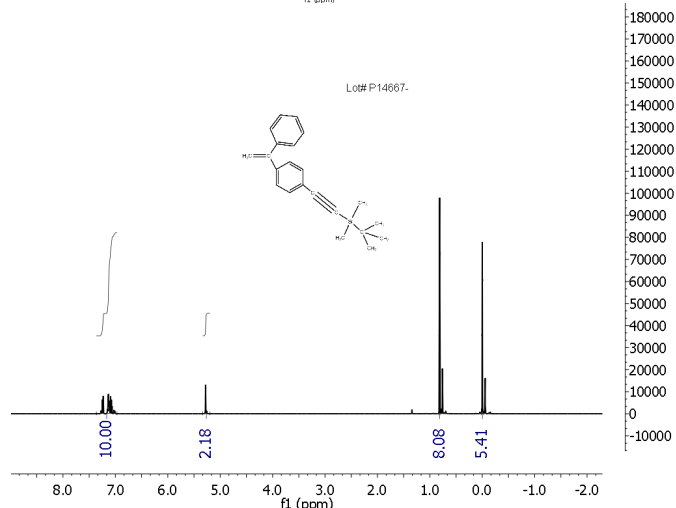
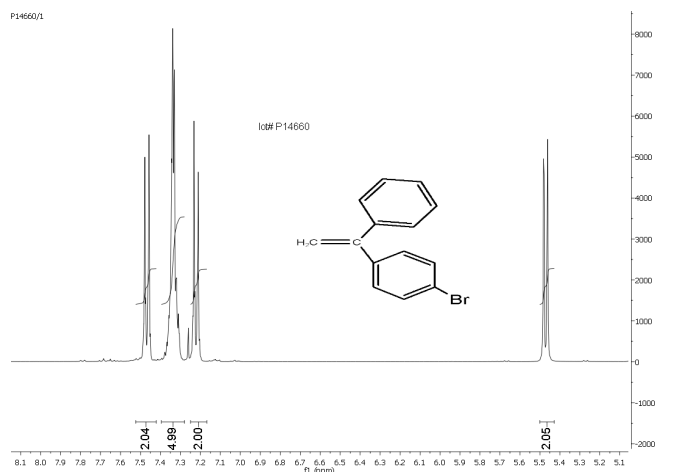
Synthesis Procedure:

By anionic Process

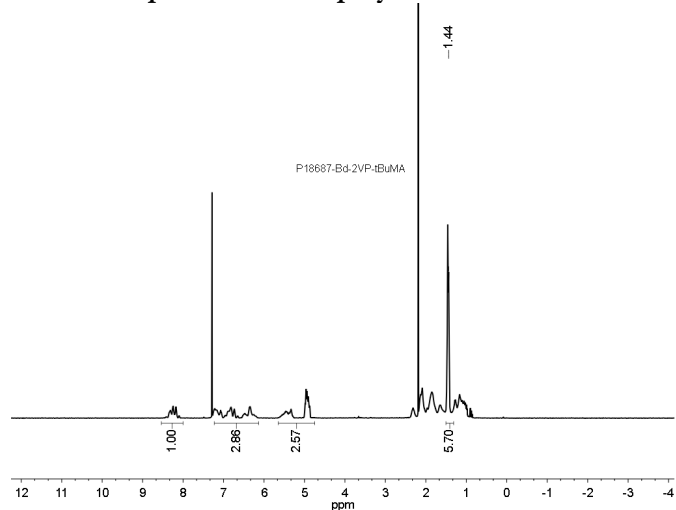
**Characterization:**

By SEC and HNMR spectroscopy.

DPE-4Br: The product was characterized by NMR and FTIR.



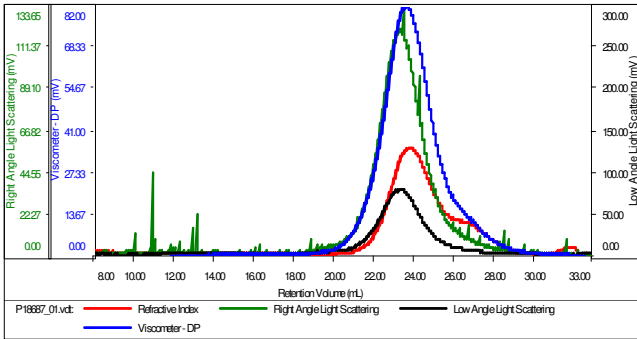
¹H-NMR Spectrum of the polymer



SEC:

Sample ID: P18687-Bd(acetylene)2VPtBuM

| | |
|-----------------------|---------------------------|
| Concentration (mg/mL) | 1.7310 |
| Sample dn/dc (mL/g) | 0.1350 |
| Method File | PS80K-NOV27-2014-0001.vcm |
| Column Set | 3x PL 1113-6300 |
| Solvent | THF |



| Sample | MW Number Average (Da) | MW Weight Average (Da) | MW at Peak (Da) | Polydispers | Intrinsic Viscosity (dL/g) |
|---------------|------------------------|------------------------|-----------------|-------------|----------------------------|
| P18687_01.vct | 81,616 | 123,878 | 131,449 | 1.518 | 3.3556 |