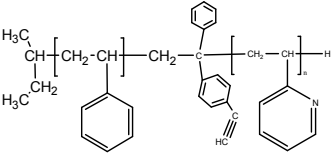


**Sample Name:** Poly (Styrenee-b-2-vinyl pyridine) bearing ethynyl (acetylenic triple bond) phenyl – phenyl ethylene at the junction of S-2VP block  
**Sample #:** P40216-S (acetylene) 2VP

**Structure:**

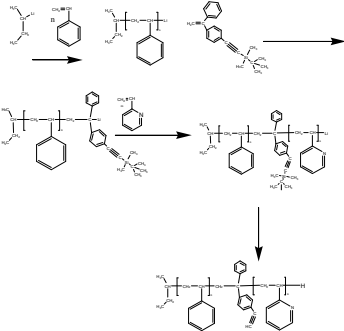


**Composition:**

Mn x 10 <sup>3</sup> S-b-2VP	PDI
144.5-b-29.0	1.08

**Synthesis Procedure:**

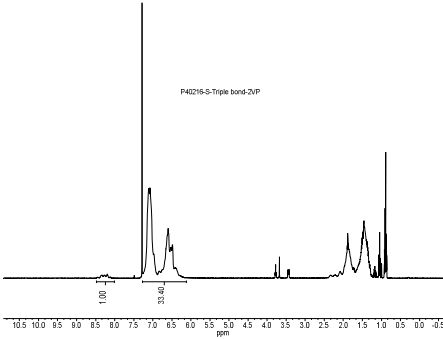
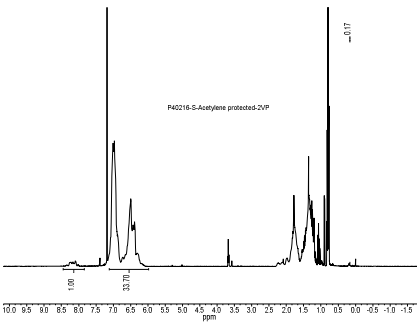
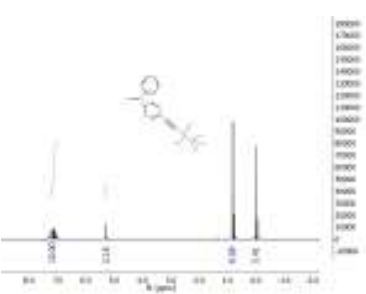
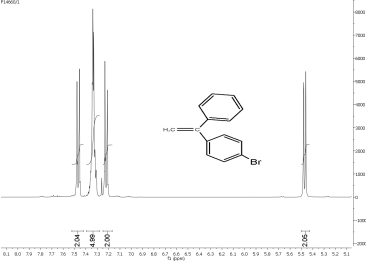
The polymer was synthesized by anionic polymerization.



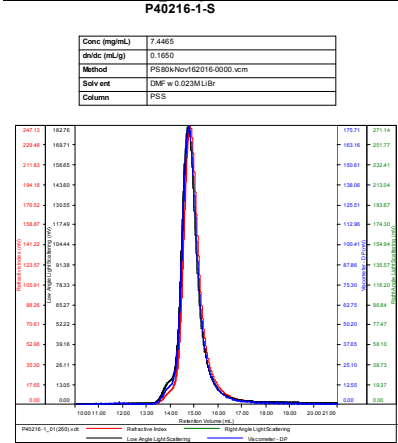
**Characterization:**

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

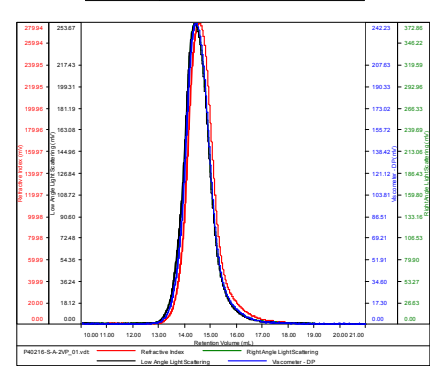
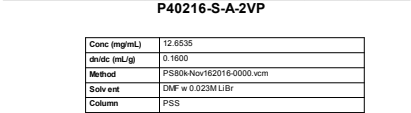
**DPE-4Br:** The product was characterized by NMR and FTIR.



**SEC for the polymer at different stages:**



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40216-1_01(2500).vbl	144,648	150,698	146,244	1.042	0.2165



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40216-S-A-2VP_01.vbl	173,269	187,102	179,947	1.080	0.2464