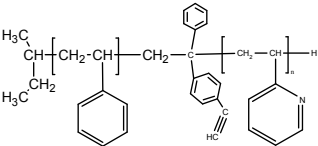


Sample Name: Poly (Styrenee-b-2-vinyl pyridine) bearing ethynyl (acetylenic triple bond) phenyl – phenyl ethylene at the junction of S-2VP block
Sample #: P40222-S (acetylene) 2VP

Structure:

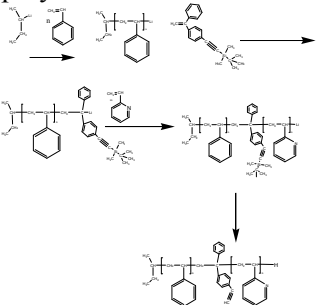


Composition:

Mn x 10 ³ S-b-2VP	PDI
195.0-b-89.0	1.12

Synthesis Procedure:

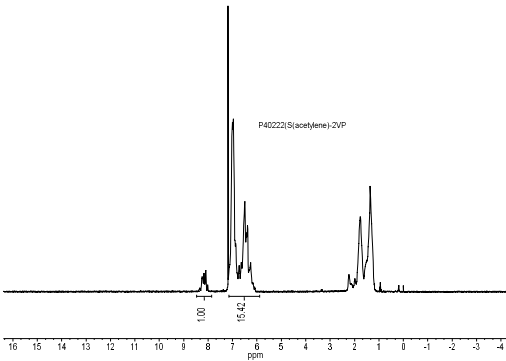
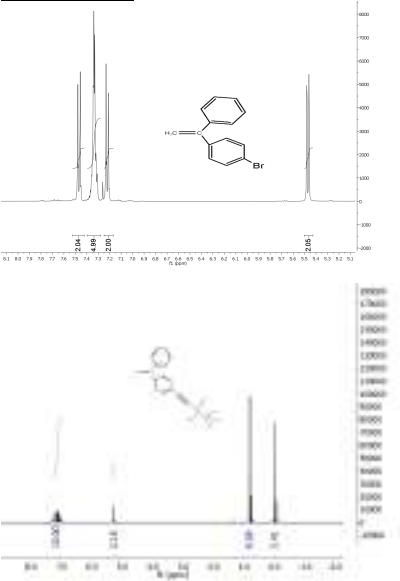
The polymer was synthesized by anionic polymerization



Characterization:

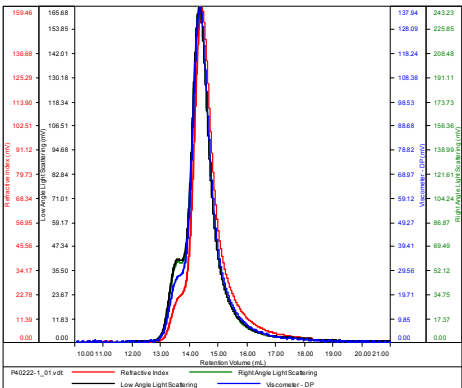
The product was characterized by size exclusion chromatography (SEC) and 1H NMR.

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



SEC for the polymer at different stages:
P40222-1-S

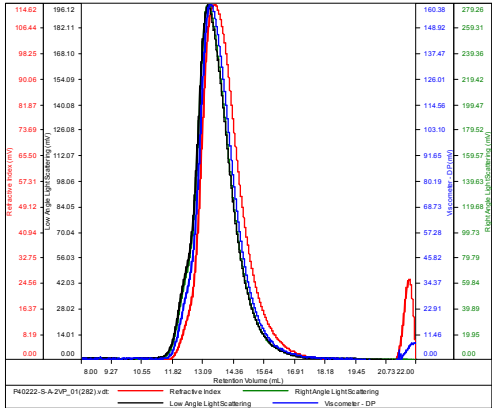
Conc (mg/mL)	5.5968
dn/dc (mL/g)	0.1650
Method	PS80k-Nov162016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40222-1_01.vdt	194,306	212,420	202,321	1.093	0.2666

P40222-S-A-2VP

Conc (mg/mL)	7.8418
dn/dc (mL/g)	0.1650
Method	PS80k-Nov162016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40222-S-A-2VP_01(282).vdt	284,696	316,518	321,765	1.112	0.3980