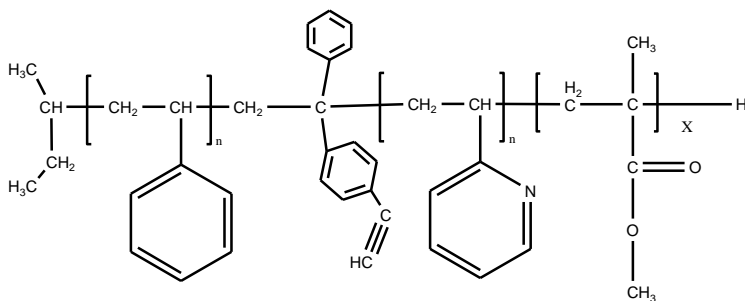


**Sample Name:**

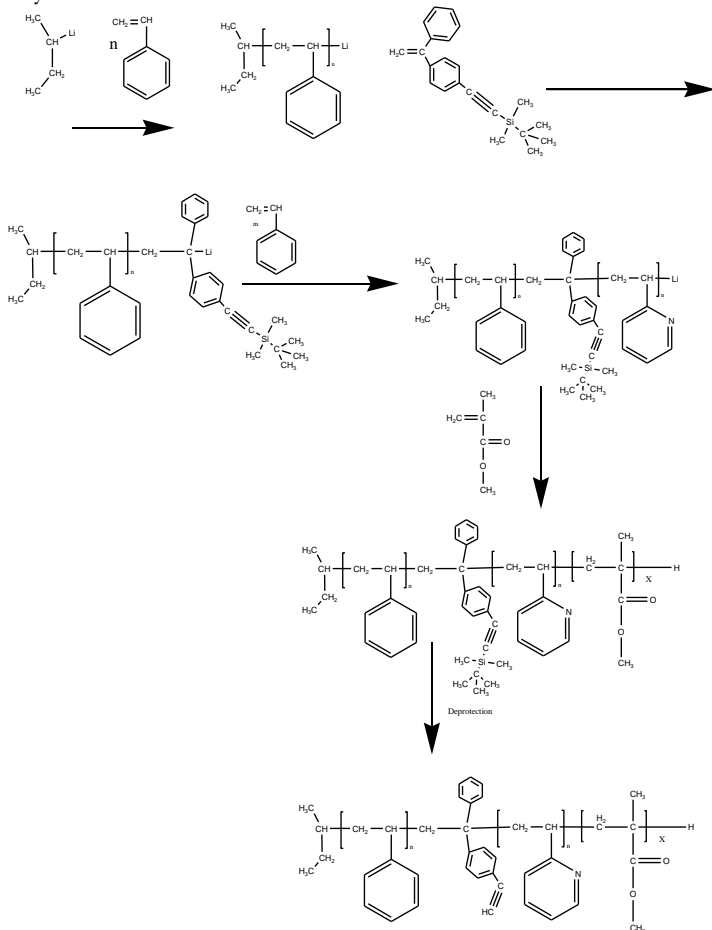
Poly(styrene-b-2-vinyl pyridine-methylmethacrylate) bearing ethynyl (acetylenic triple bond) phenyl-phenyl ethylene at the junction of S-2VP block

**Sample #: P18349-S(acetylene) 2VPMMA****Structure:****Composition:**

Mn x 10 <sup>3</sup>	PDI
S-b-2VP-b-MMA	
30.0-b-16.0-b-123.0	1.13
By HNMR	
T <sub>g</sub> for PS block: 106°C	T <sub>g</sub> for MMA block: 118°C
T <sub>g</sub> for 2VP block: Not found	

**Synthesis Procedure:**

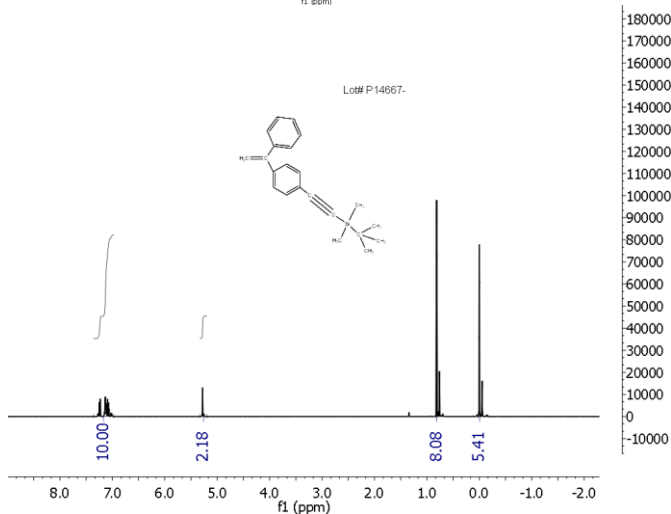
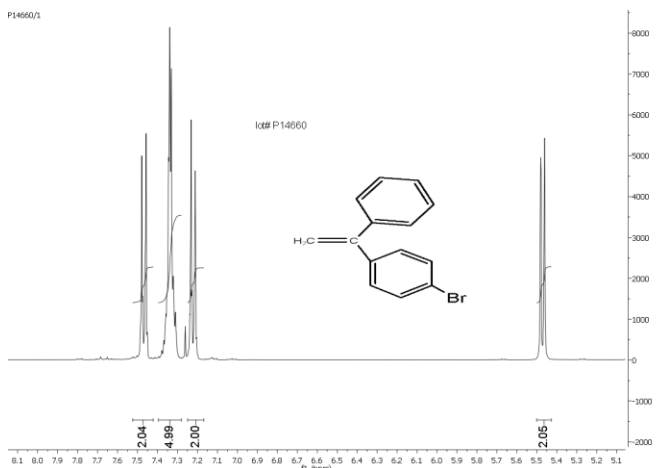
By anionic Process

**Characterization:**

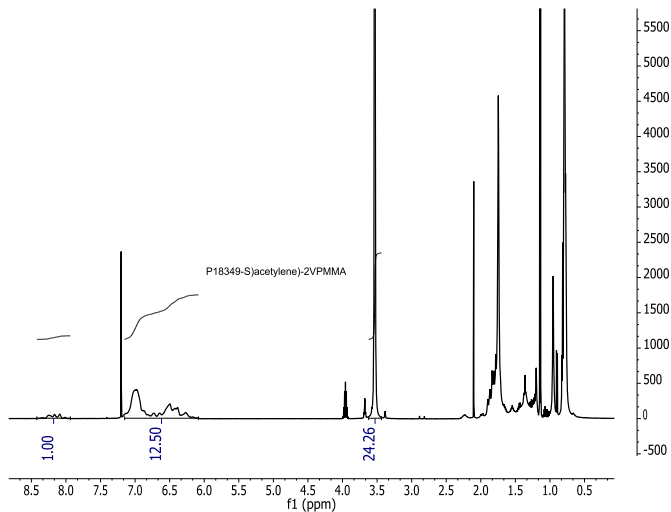
By SEC and HNMR spectroscopy.

DPE-4Br:

The product was characterized by NMR and FTIR.



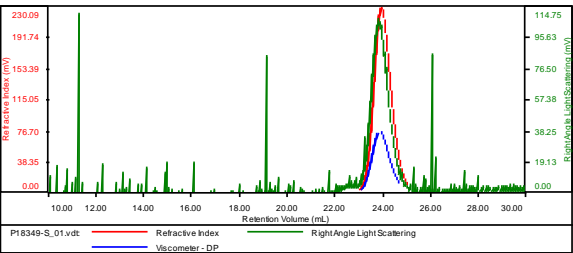
**<sup>1</sup>H-NMR Spectrum of the polymer**



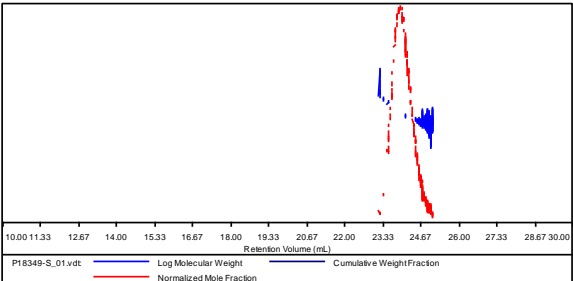
SEC for the polymer at different stages:

Sample ID: P18349-S

Concentration (mg/mL)	5.0165
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-NOV25-2013-0000.vcm
Column Set	3x PL 1113-6300
System	System 1

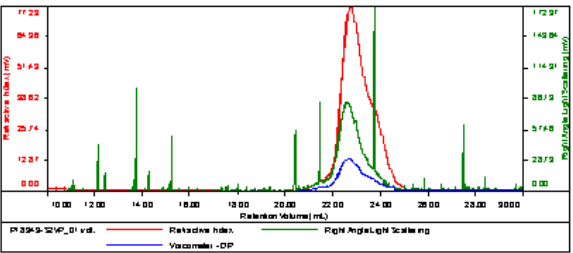


Sample	Mn	Mw	Mp	Mw/Mn	IV
P18349-S_01.vdt	29,957	31,268	30,502	1.044	0.2338

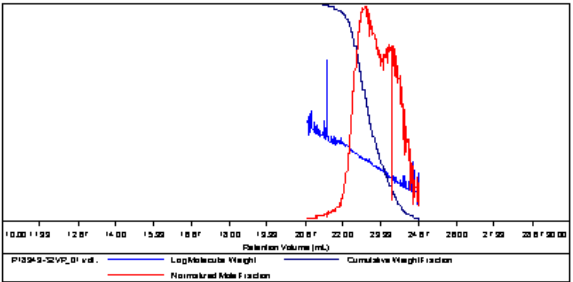


Sample ID: P18349-S2VP

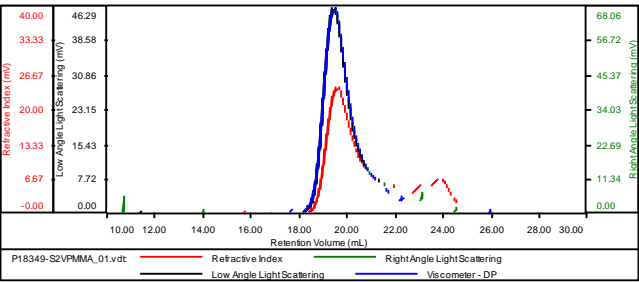
Concentration (mg/mL)	2.8864
Sample dn/dc (mL/g)	0.1760
Method File	PS80K-NOV25-2013-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18349-S2VP_01.vdt	58,335	68,010	73,746	1.166	0.3239



Concentration (mg/mL)	1.5417
Sample dn/dc (mL/g)	0.1270
Method File	PS80K-NOV25-2013-0002.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
P18349-S2VPMMA_01.vdt	224,804	252,270	292,348	1.122	1.0537

