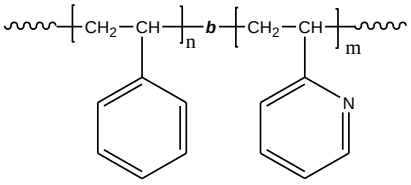
Sample Name: **Polystyrene-*block*-poly (2-vinyl pyridine)**

Sample #: **P41217-S2VP**

Structure:



Composition:

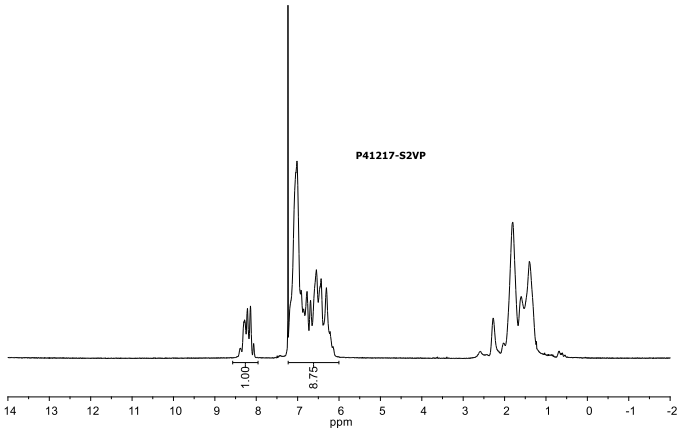
Mn x 10^3 PS-b-2VP	PDI
8.0-b-6.0	1.15

Synthesis Procedure:
Polystyrene-*b*-poly (2-vinyl pyridine) was prepared by living anionic polymerization in THF at –78ºC in the presence of LiCl as an additive.

Characterization:
The product was characterized by size exclusion chromatography (SEC) and ^{1}H NMR.

Solubility:
Poly (styrene-b-2 vinylpyridine) is soluble in THF, toluene, and CHCl3. The diblock copolymer can also be solubilized in methanol, ethanol depending on its composition. The polymer readily precipitates from hexanes, ether and water.

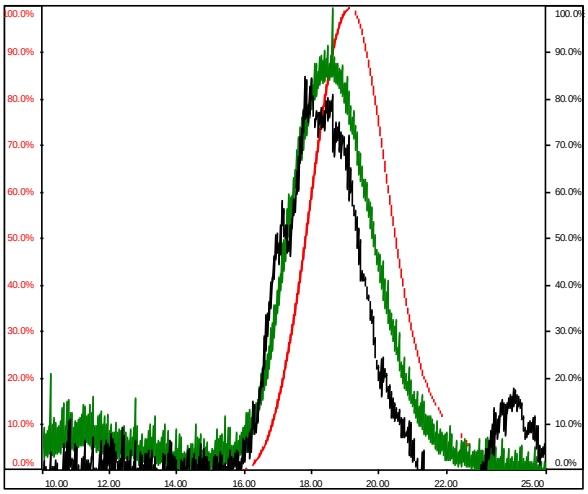
H-NMR Spectrum of the Sample:



SEC elugram of the S block:

P41217-S

Conc	5.8114
dn/dc	0.1650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS99k_2018-05-30-0000.vcm

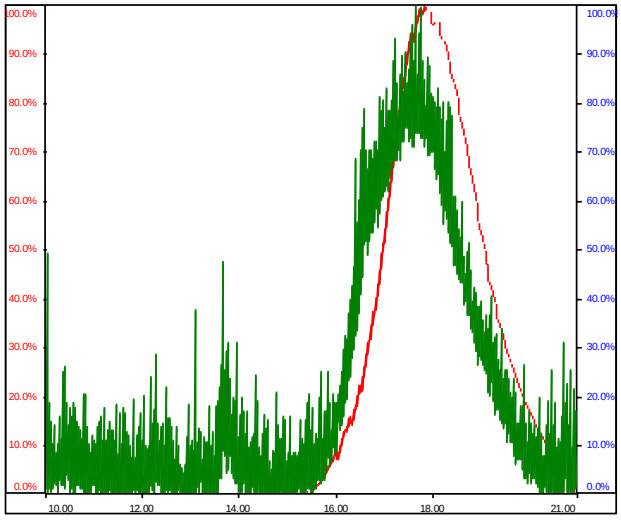


Sample	Mn	Mw	Mp	Mw/Mn	IV
P40217-S_01.vdt	8,068	9,731	8,961	1.206	0.1520

SEC elugram of the Sample:

P41217-S2VP

Conc	0.9735
dn/dc	0.1650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS99k_2018-05-30-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P41217-2_01.vdt	13,957	16,034	14,312	1.149	0.4438