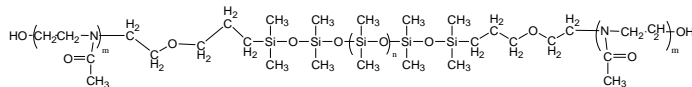Sample Name:
**Poly(2-methyloxazoline–*b*–dimethylsiloxane–*b*–
2-methyloxazoline) Triblock Copolymer**

Sample #: **P42961-MEOXZDMSMEOXZ**

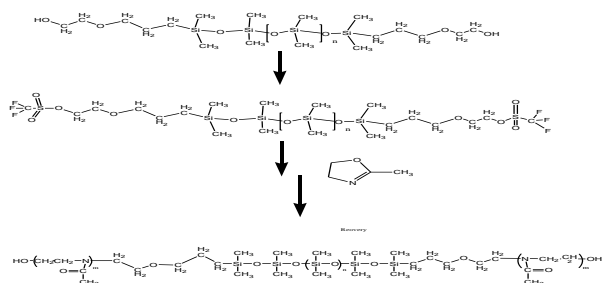**Structure:**

Composition:

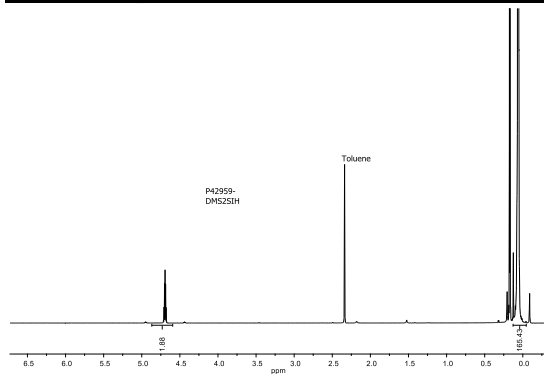| Mn x 10^3 MOXZ-DMS-MOXZ	PDI	Dp:
0.5-b-2.0-b-0.5	1.28	6-b-28-b-6

Synthesis Procedure:
The following reaction scheme shows how the product
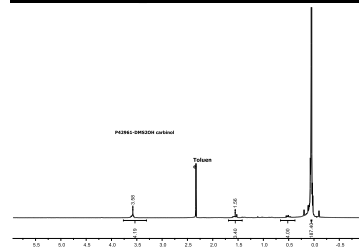was prepared:

Characterization:
The product was characterized by ^{1}H NMR
spectroscopy. Size exclusion chromatography (SEC) of
such polymer cannot be carried out in THF or DMF as
eluants. A mixture of DMF/THF (20/80 by volume) in
addition of 3 V% (Et)3N has been used to elute the
sample. The values of Mw/Mn, and the composition of
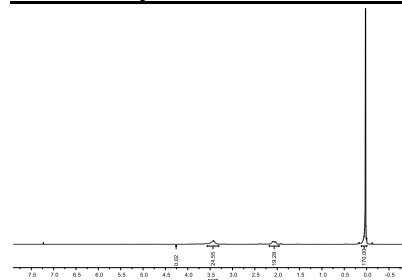the polymer were determined by its HNMR data
analysis.

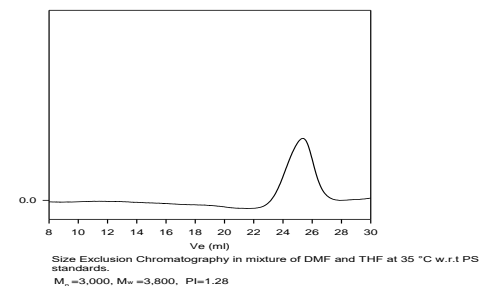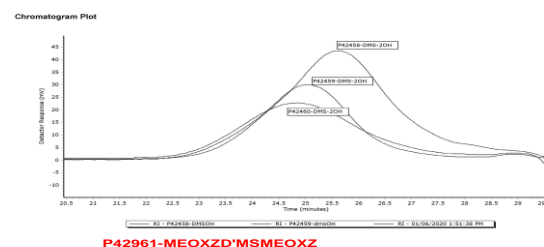**^{1}H-NMR spectrum of PDMS-2SIH (Lot# P42959):**
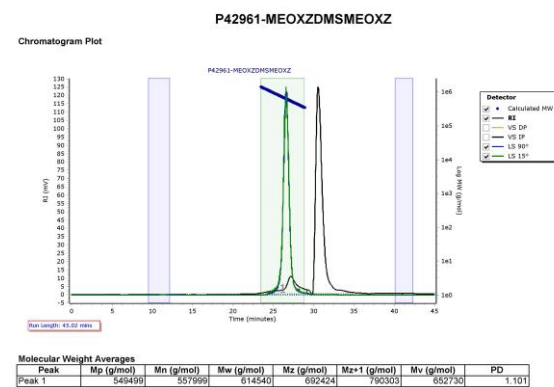

^{1}H NMR spectrum of DMS2Carbinol:

^{1}H NMR spectrum of MEOXZ-DMS-MEOXZ:

SEC chromatograms of the Sample:

P42961-MEOXZD'MSMEOXZ

Size Exclusion Chromatography in mixture of DMF and THF at 35 °C w.r.t PS
standards.
M_n =3,000, M_w =3,800, PI=1.28

GPC of the polymer elution in pure THF shows
micellization and demonstrate the uniformity of the
size of chains and narrow distribution:

Molecular Weight Averages							
Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	549499	557999	614540	692424	790303	652730	1.101