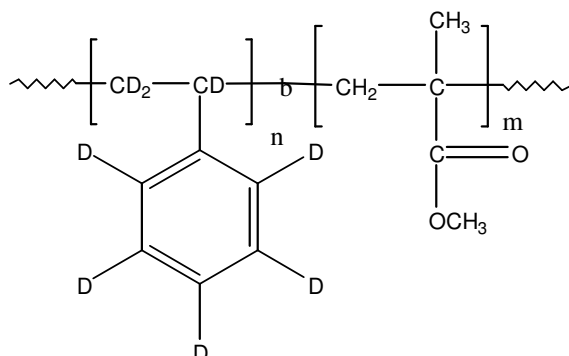


**Sample Name:** Deuterated Polystyrene (d<sub>8</sub>)-  
Methylmethacrylate (protonated)

**Sample #:** P19127A-dPSMMA

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup> (dPS-b-MMA)	PDI
50.5-b-3.0	1.10
T <sub>g</sub> for PS block	106°C
T <sub>g</sub> for MMA block	Not detected

**Synthesis Procedure:**

By anionic process.<sup>1-4</sup>

**Characterization:**

By GPC and HNMR.

**Solubility:**

Deuterated polystyrene-d<sub>8</sub>MMA is soluble in DMF, THF, toluene and CHCl<sub>3</sub>. It precipitates from methanol, ethanol, water and hexanes.

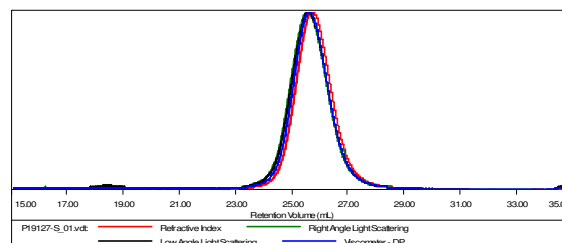
**References for further information:**

1. S. K. Varshney, R. Fayt, Ph. Teyssie, and J.P. Hautekeer US Patent 5,264,527 (1993)
2. Ph. Teyssie, Ph. Bayard, R. Jerome, S. K. Varshney, and J. S. Wang, *35th IUPAC International Union of Pure & Applied Chemistry International Symposium on Macromolecules* 1994, 67.
3. Ph. Teyssie, R. Fayt, J. P. Hautekeer, C. Jacobs, R. Jerome, L. Leemans and S. K. Varshney *Makromolekular Chemie, Macromol. Symp.*, 1990, 32,61-73.
4. S. K. Varshney, J. P. Hautekeer, R. Fayt, R. Jerome, and Ph.Teyssie *Macromolecules*, 1990, 23, 2618-2622.

**SEC of the polymer:**

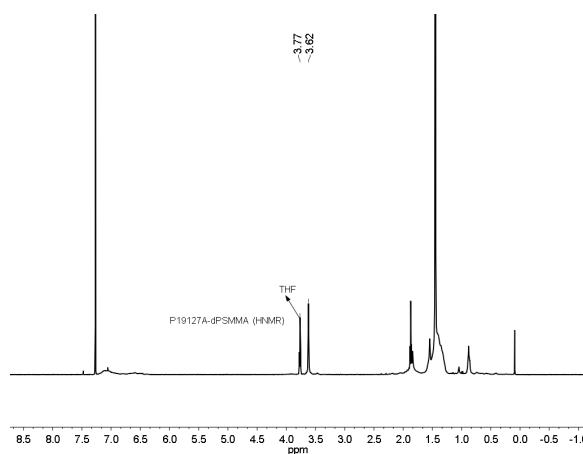
**Sample ID:** P19127-dPS

Concentration (mg/mL)	44.8006
Sample dn/dc (mL/g)	0.1850
Method File	PS80K March6-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19127-S_01.vdt	50,397	52,464	50,977	1.041	0.2287

**H NMR:**



**D2 NMR:**

