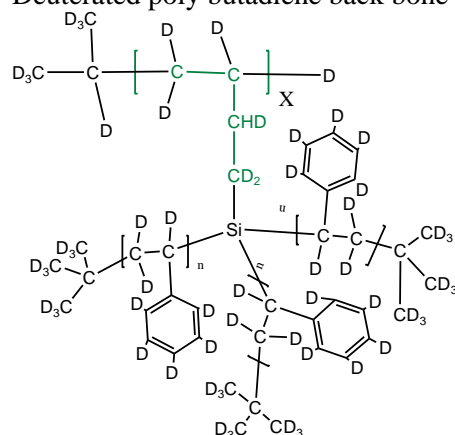


**Sample Name: Complete Deuterated Graft or star like Polystyrene (d8)**

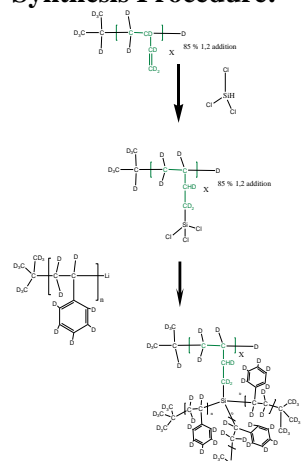
**Sample # P18835A-11dPS**

11- arms grafted Deuterated Poly styrene on Deuterated poly butadiene back bone



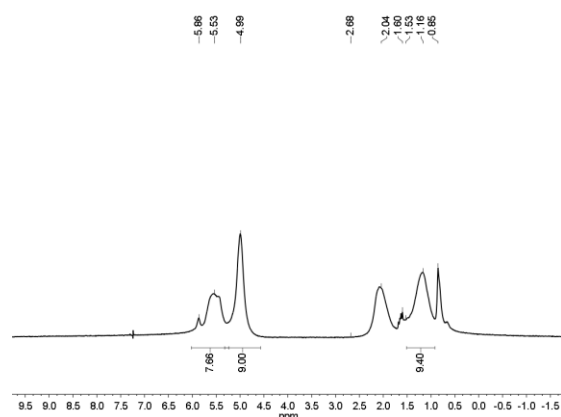
Mn x 10 <sup>3</sup> (total)	PDI
10.3	1.38
Mn of each arm: (0.9)	

**Synthesis Procedure:**



Linker : Lot# P18818: pentamer

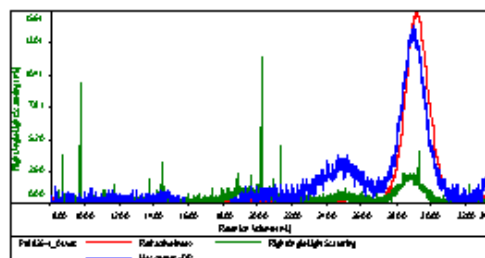
**H NMR:**



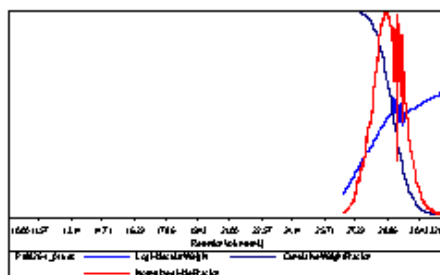
**SEC of the deuterated Polystyrene branch**

**Sample ID:** branch

Concentration (mg/mL)	4.2261
Sample dn/dc (mL/g)	0.1250
Method File	PS80K-August152014-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF

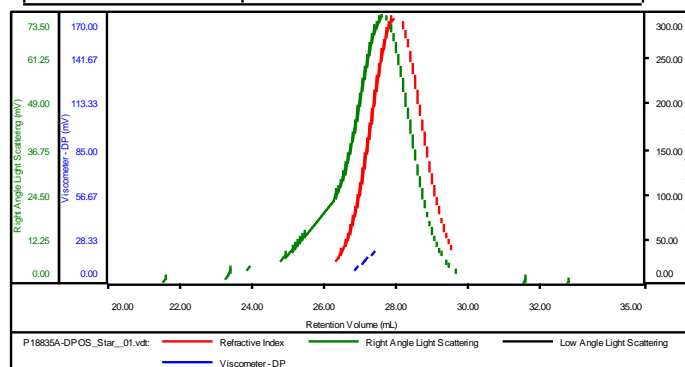


Sample	RI	RA	DP	PS	IV
	26.1	26.0	1.001	1.112	0.0257



**Sample ID: P18835A-dPS star**

Concentration (mg/mL)	12.8655
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-0903-2014-0000.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)
P18835A-DPOS_Star_01.vdt	10,234	14,173	10,935	1.385	0.0805