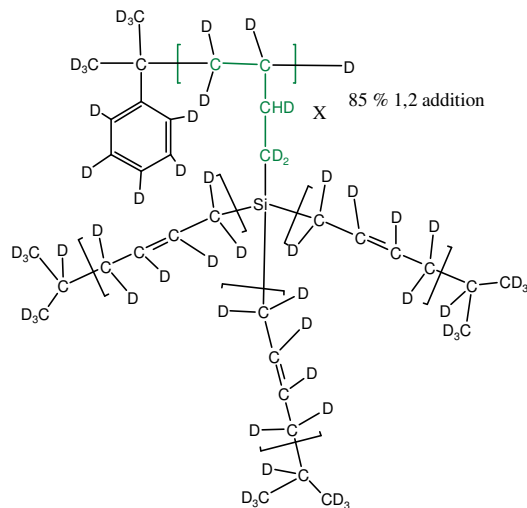


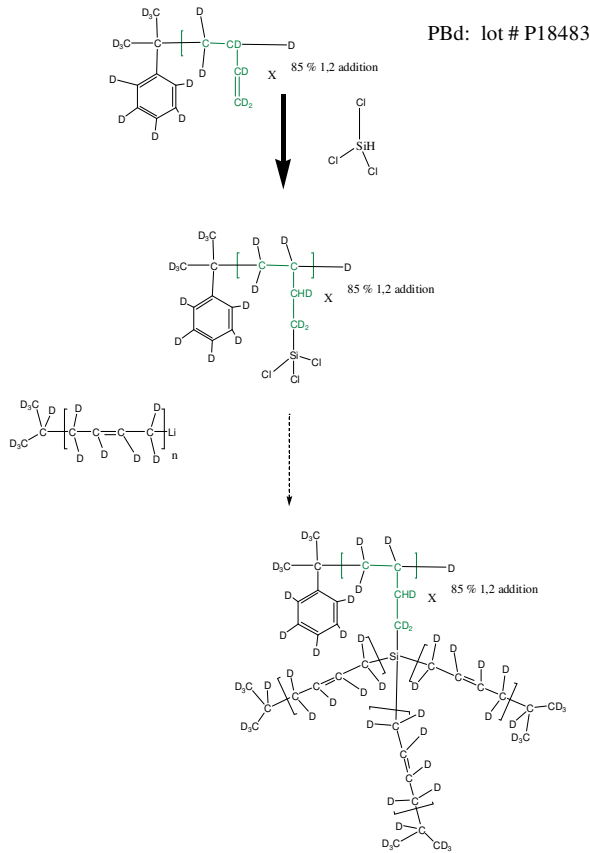
Sample Name: **Completely Deuterated
23-Arm 1,4-Polybutadiene**

Sample # **P18554A-23dPBd**



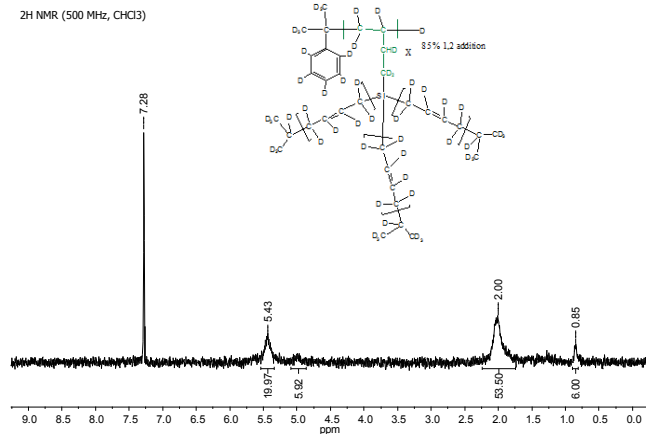
Total M _n (g/mol):	19,000
M _w /M _n :	2.0
M _n of polybutadiene arm (g/mol):	800

Synthesis:



Deuterium NMR:

²H NMR (500 MHz, CHCl₃)

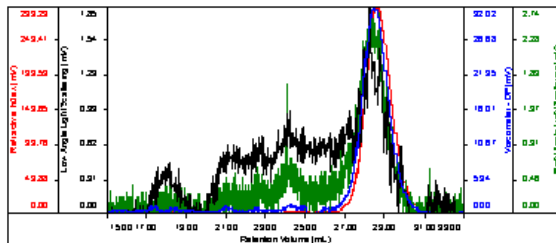


SEC:

Molecular weights of polybutadiene was determined by SEC using RI detector:

Sample ID: P18554-dBd Branch

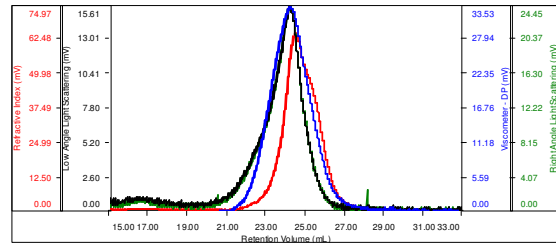
Concentration (mg/mL)	8.1187
Sample dn/dc (mL/g)	0.1270
Method File	PS80K-March13-2014-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	M _n	M _w	M _p	M _w /M _n	IV
P18554-dBd-branch-01.vdt	755	829	677	1.099	0.1124

Sample ID: P18554A-dBd star

Concentration (mg/mL)	2.3812
Sample dn/dc (mL/g)	0.1270
Method File	PS80K-March13-2014-0000.vcm
Column Set	3x PL 1113-6300
System	System 1



Sample	M _n	M _w	M _p	M _w /M _n	IV
P18554A_01.vdt	19,058	38,576	32,384	2.024	0.6552