

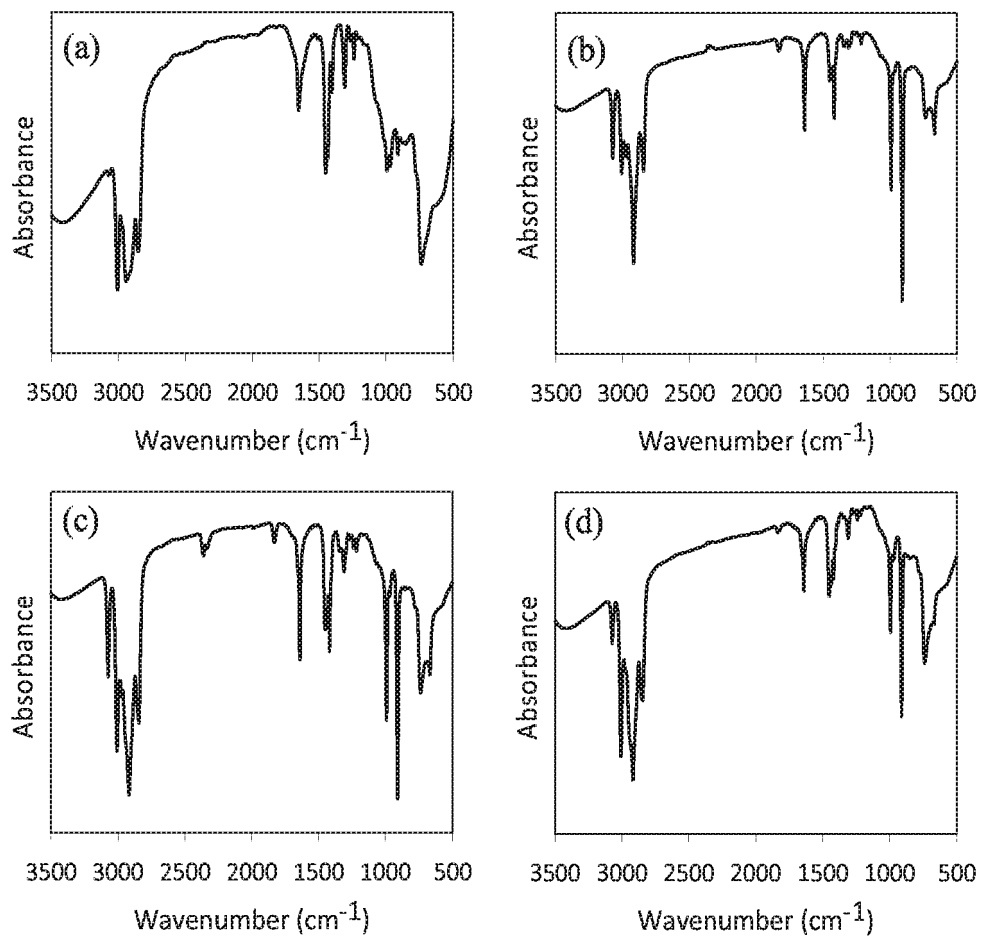


Figure 1

FT-IR spectra of the polybutadienes obtained: (a) MM46 (Example 6); (b) MM48 (Example 7); (c) MM49 (Example 8); (d) MM47 (Example 9)

2/20

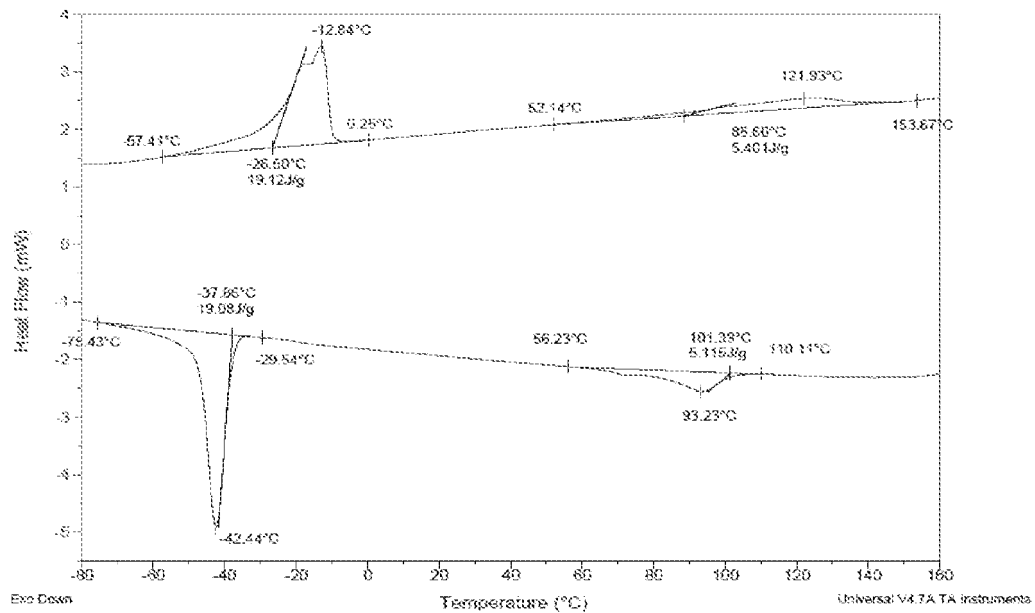


Figure 2

DSC diagram of the stereoregular diblock polybutadiene of Example 7 (MM48)

3/20

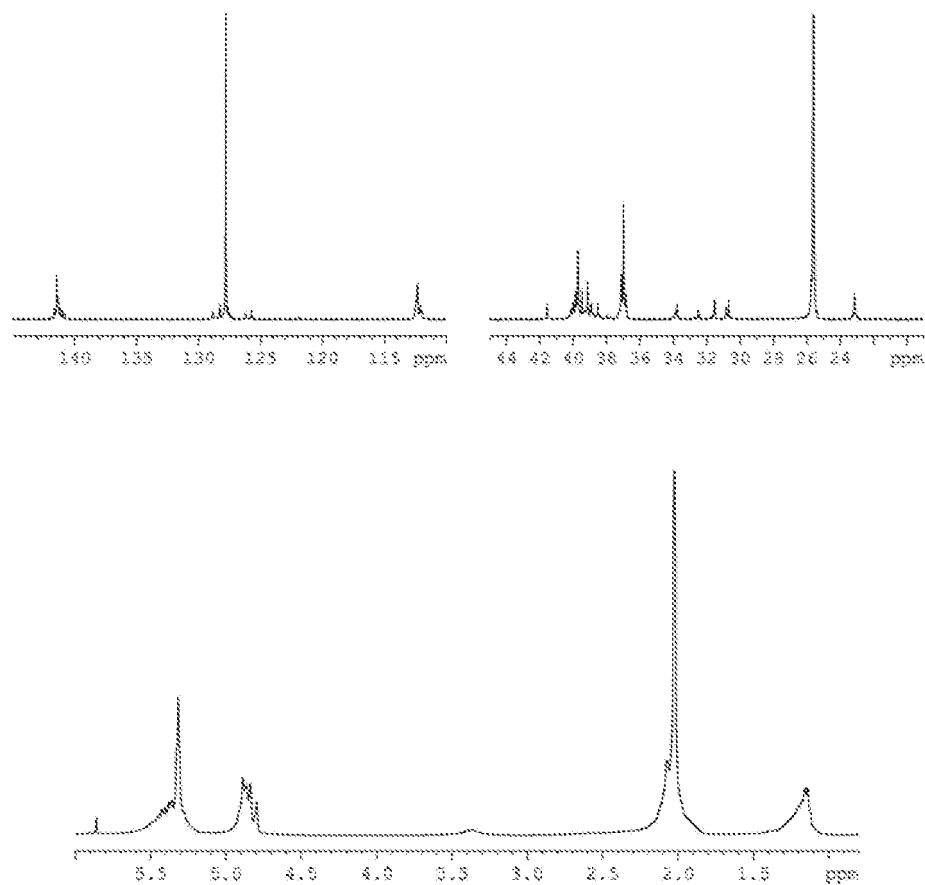


Figure 3

^{13}C -NMR spectrum (above) and ^1H -NMR spectrum (below) of the stereoregular diblock polybutadiene of Example 8 (MM49)

4/20

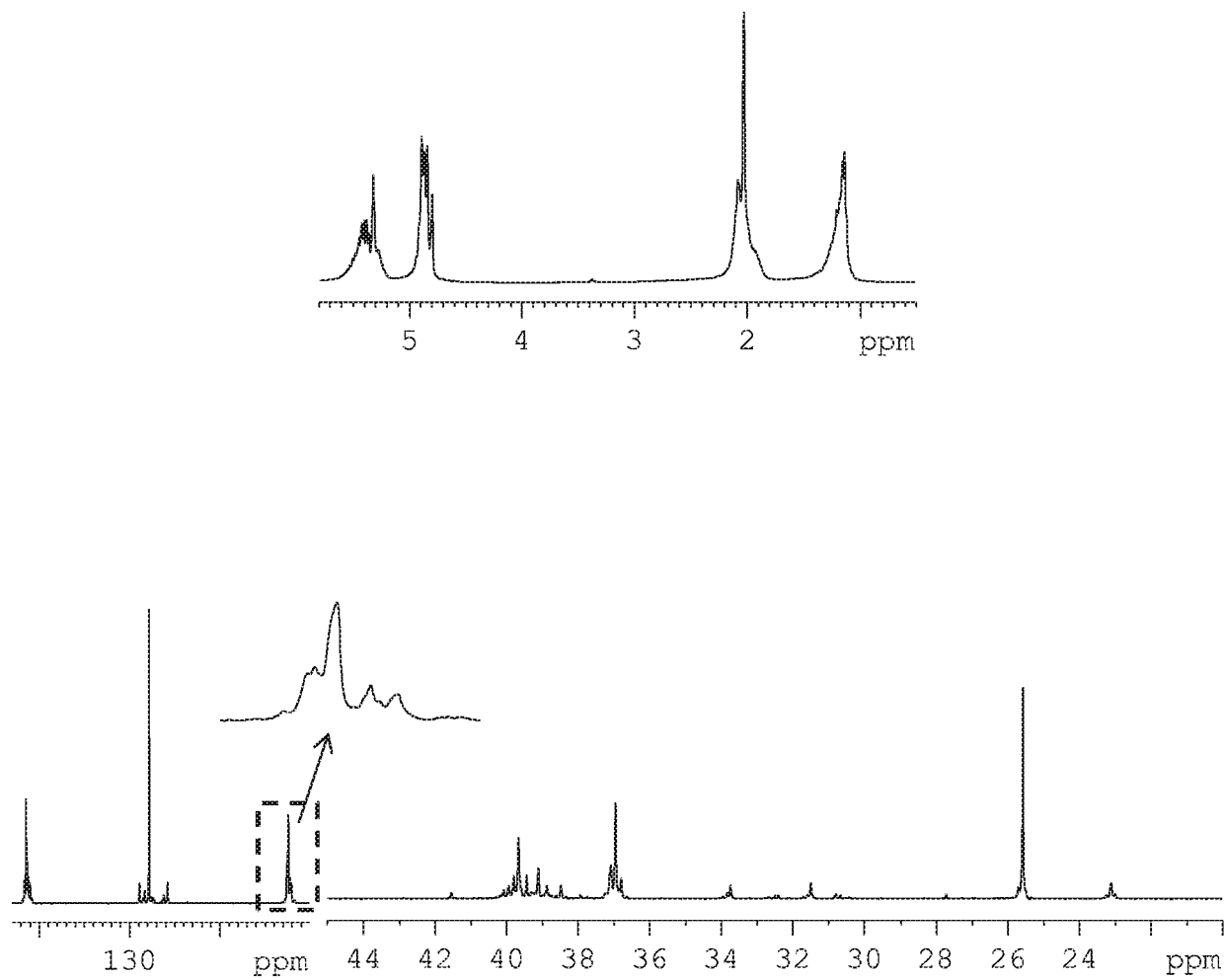


Figure 4

^{13}C -NMR spectrum (above) and ^1H -NMR spectrum (below) of the stereoregular diblock polybutadiene of Example 9 (MM47)

5/20

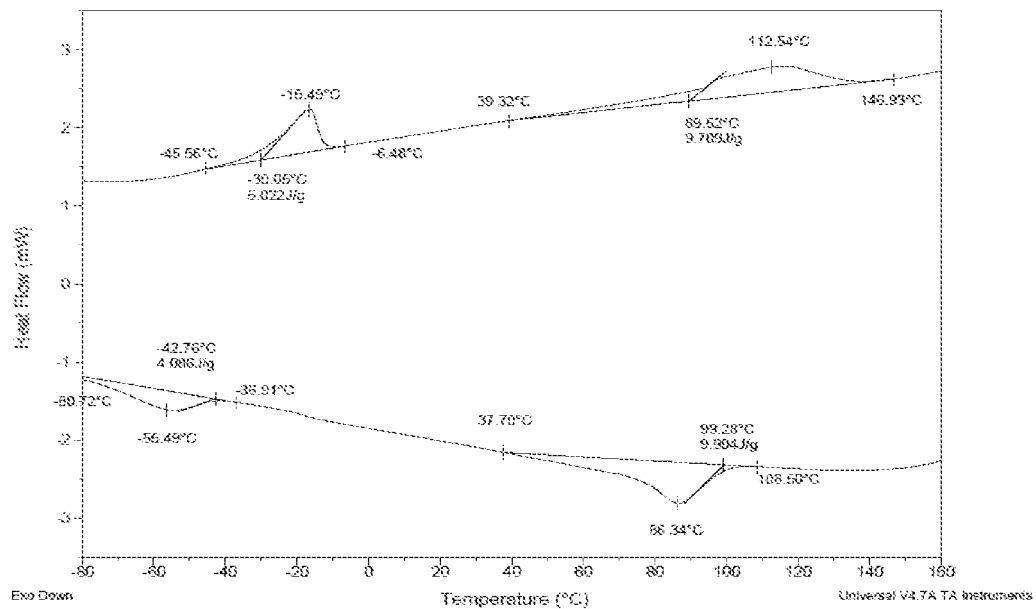


Figure 5

DSC diagram of the stereoregular diblock polybutadiene
of Example 9 (MM47)

6/20

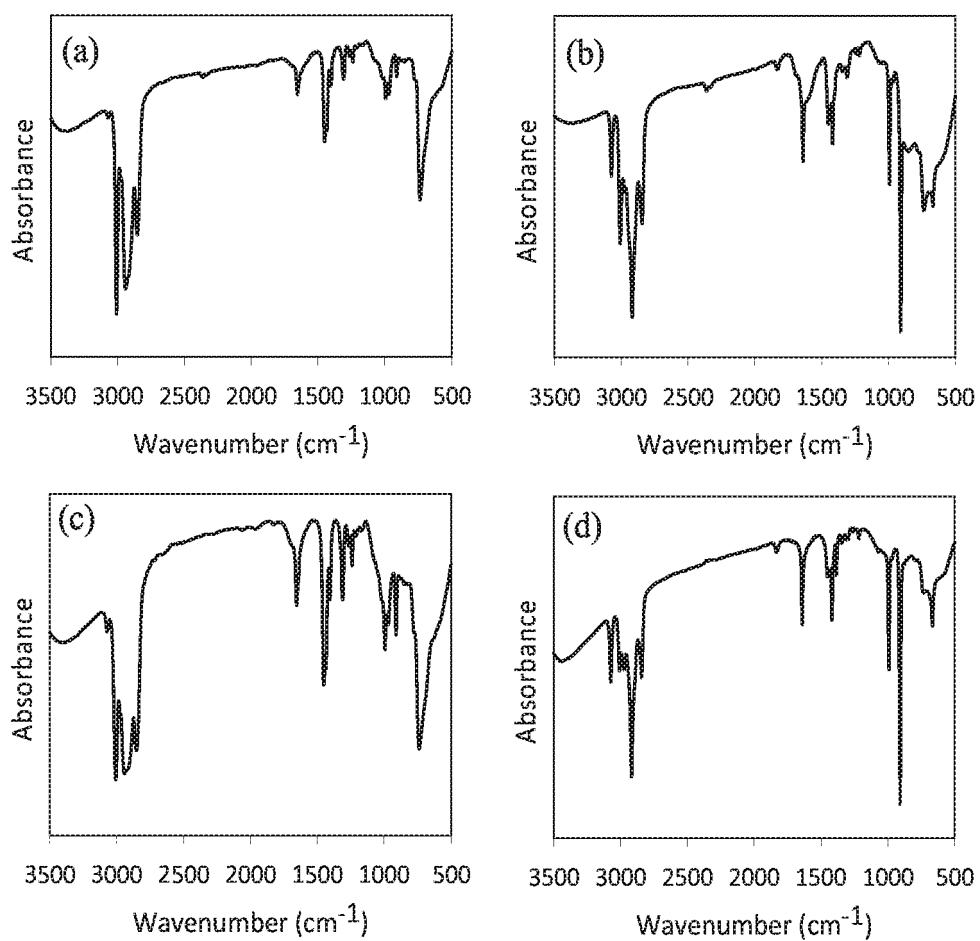


Figure 6

FT-IR spectra of the polybutadienes obtained: (a) MM53 (Example 10); (b) G1173 (Example 12);
(c) MM50 (Example 14); (d) MM60 (Example 15)

7/20

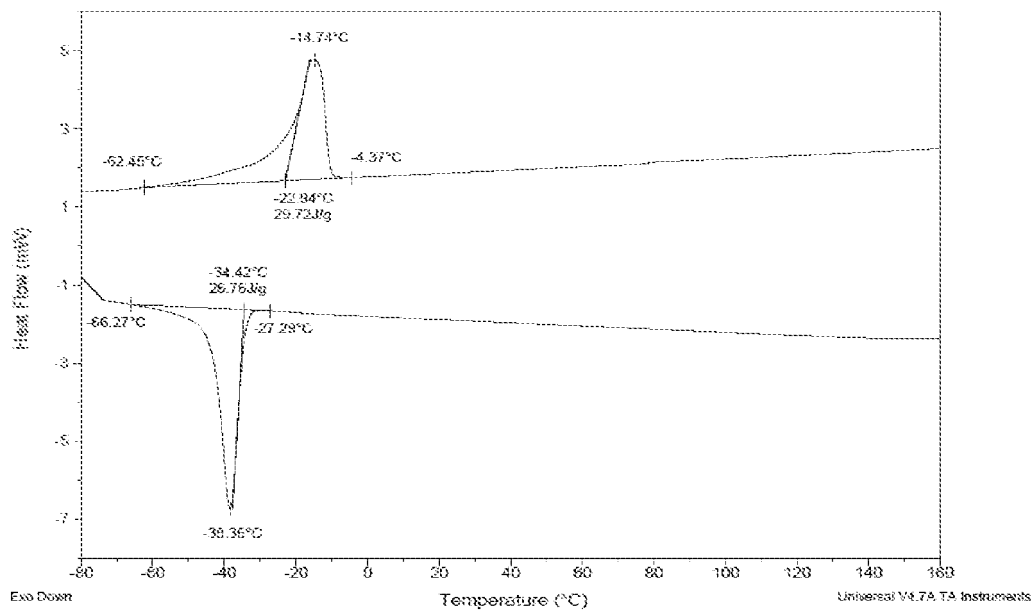


Figure 7

DSC diagram of the stereoregular diblock polybutadiene
of Example 10 (MM53)

8/20

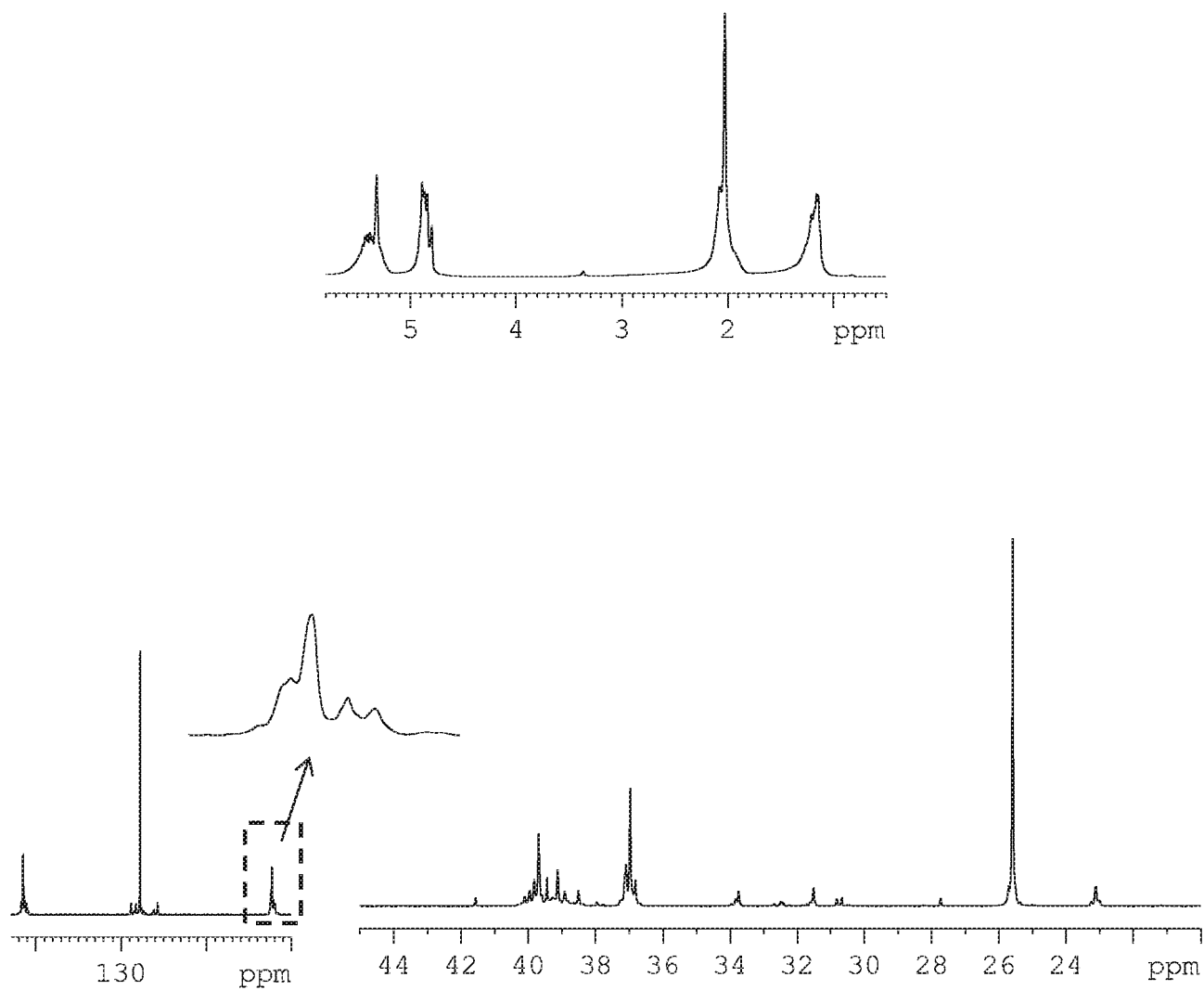


Figure 8

^{13}C -NMR spectrum (above) and ^1H -NMR spectrum (below) of the stereoregular diblock polybutadiene of Example 11 (MM54)

9/20

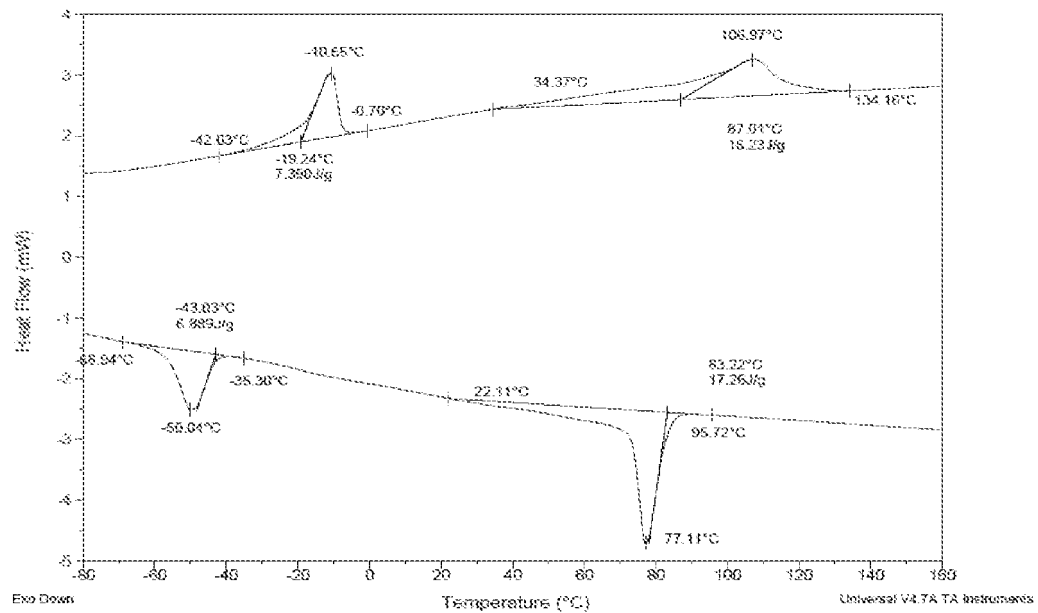


Figure 9

DSC diagram of the stereoregular diblock polybutadiene
of Example 12 (G1173)

10/20

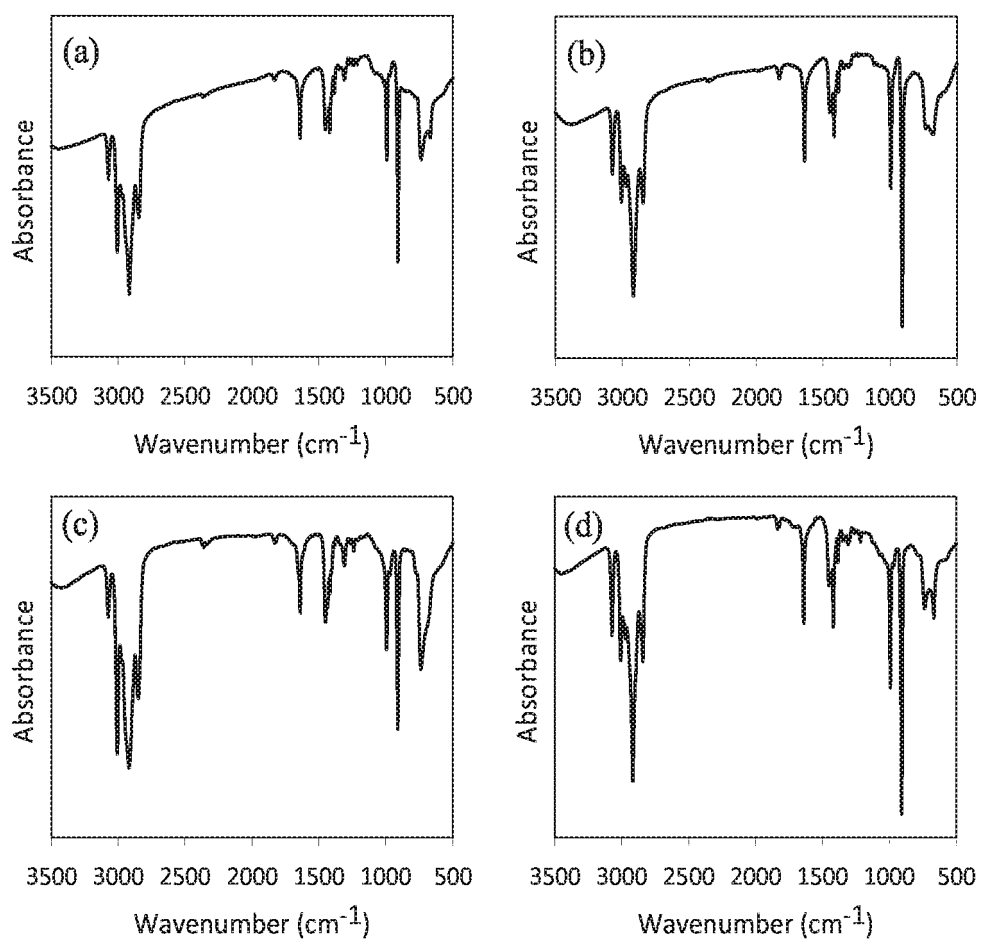


Figure 10

FT-IR spectra of the polybutadienes obtained: (a) G1174 (Example 16); (b) MM65 (Example 17);
(c) MM66 (Example 18); (d) MM57 (Example 21)

11/20

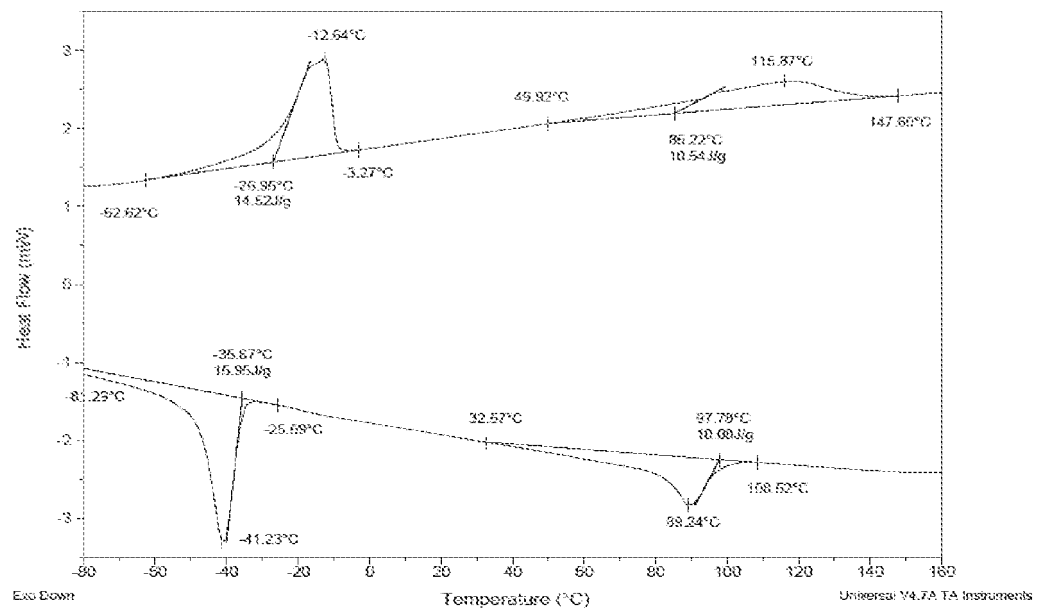


Figure 11

DSC diagram of the stereoregular diblock polybutadiene
of Example 21 (MM57)

12/20

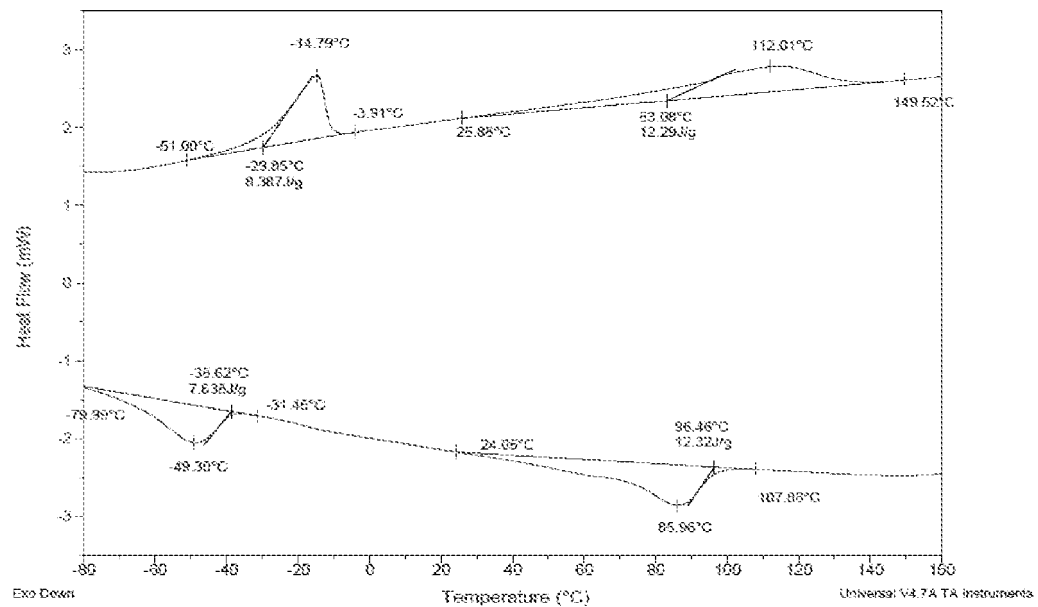


Figure 12

DSC diagram of the stereoregular diblock polybutadiene
of Example 22 (MM58)

13/20

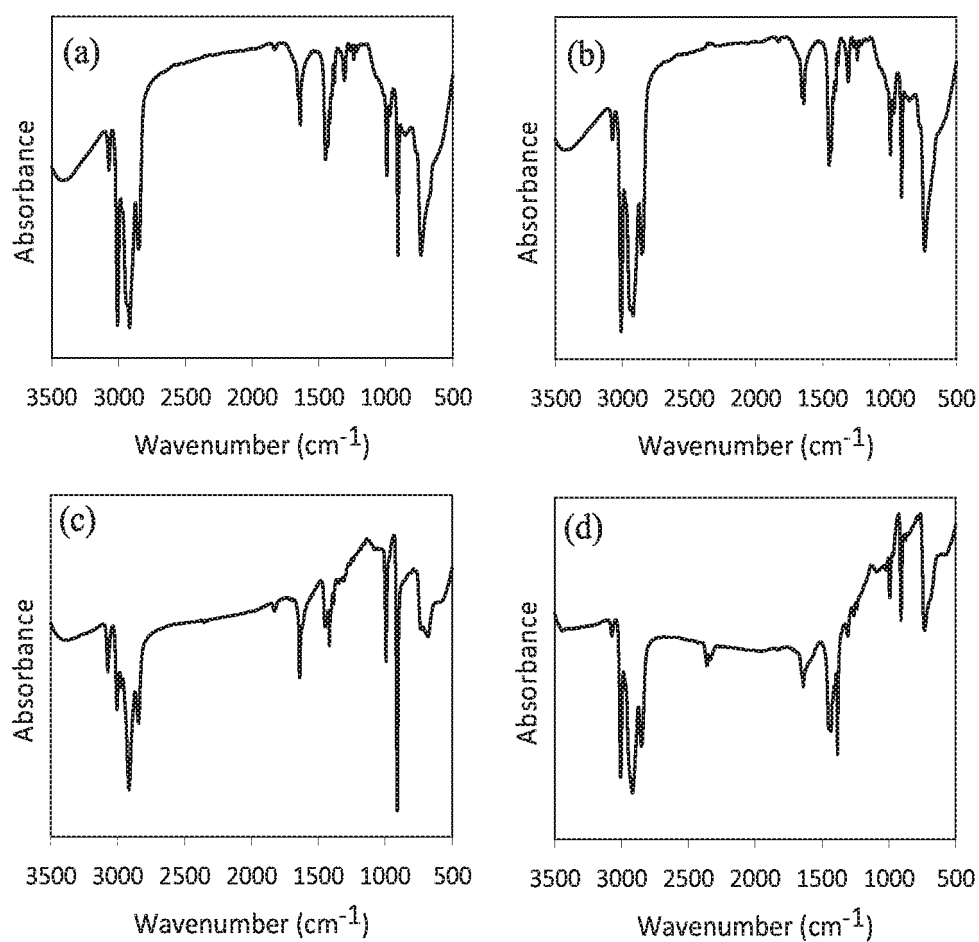


Figure 13

FT-IR spectra of the polybutadienes obtained: (a) MM59 (Example 20); (b) MM58 (Example 22);
(c) MM68 (Example 23); (d) MM69 (Example 24)

14/20

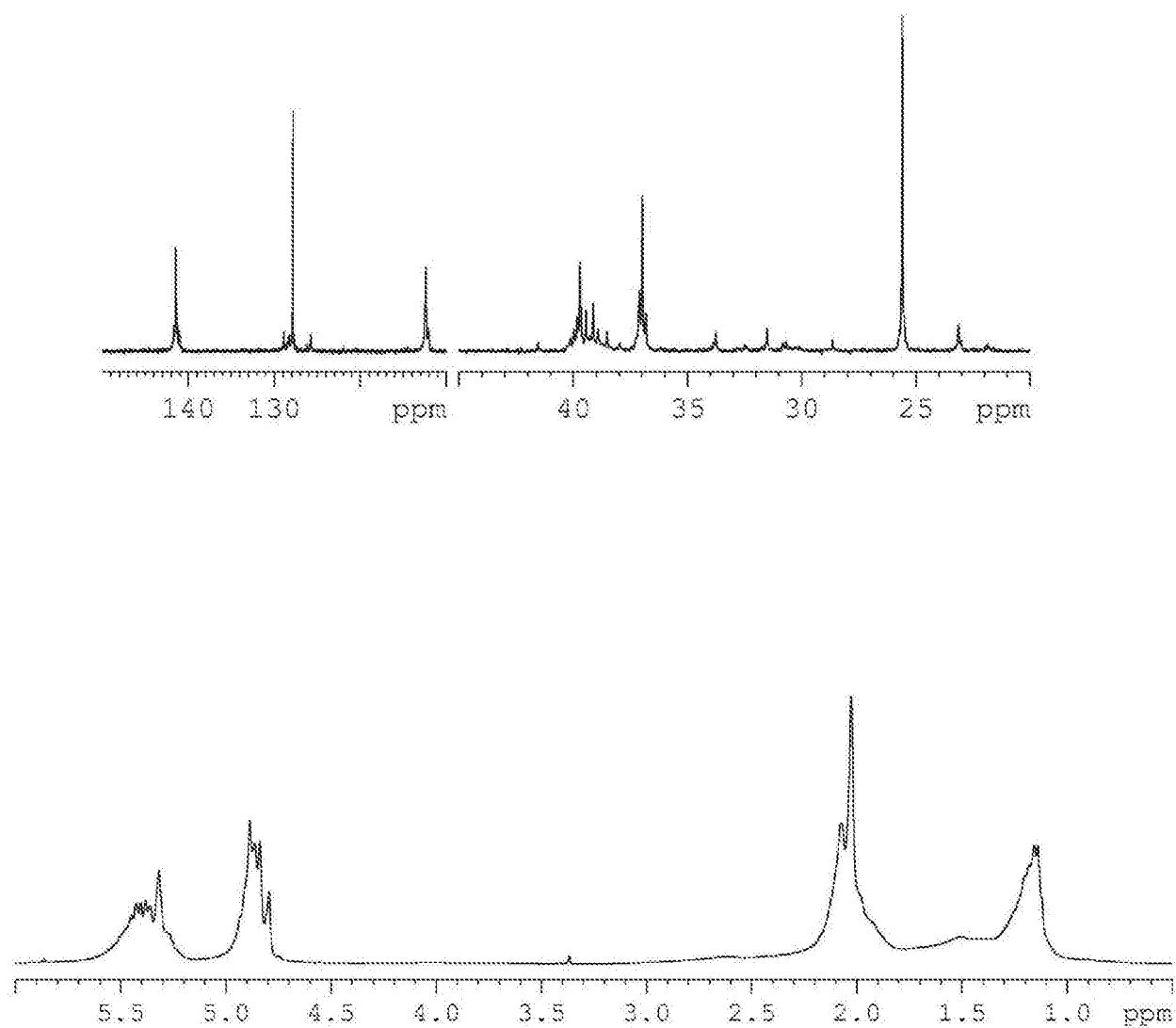


Figure 14

^{13}C -NMR spectrum (above) and ^1H -NMR spectrum (below) of the diblock polybutadiene of
Example 20 (MM59)

15/20

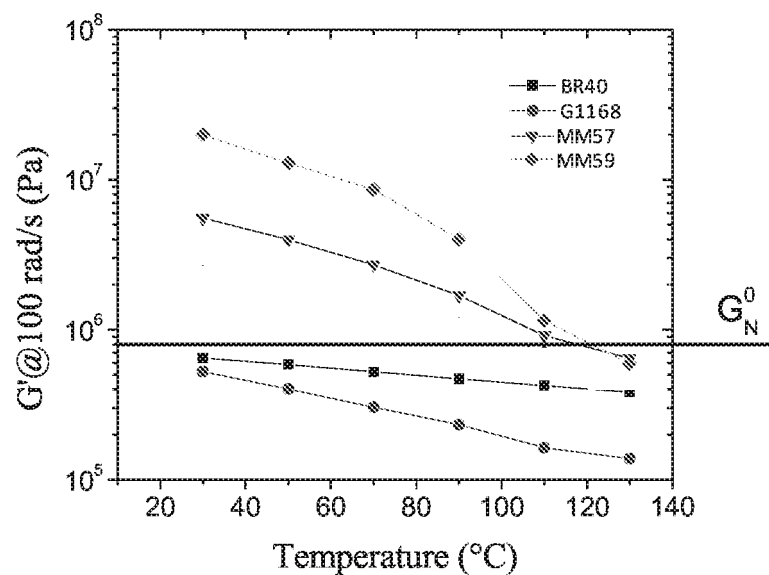


Figure 15

Elastic moduli (G') at 100 rad/s in relation to the temperature, for the reference polybutadiene of Example 19 (G1168), for the stereoregular diblock polybutadienes

of Examples 20 (MM59) and 21 (MM57) and for the polybutadiene reference sample Europrene

NEOCIS[®] BR40 (BR40)

16/20

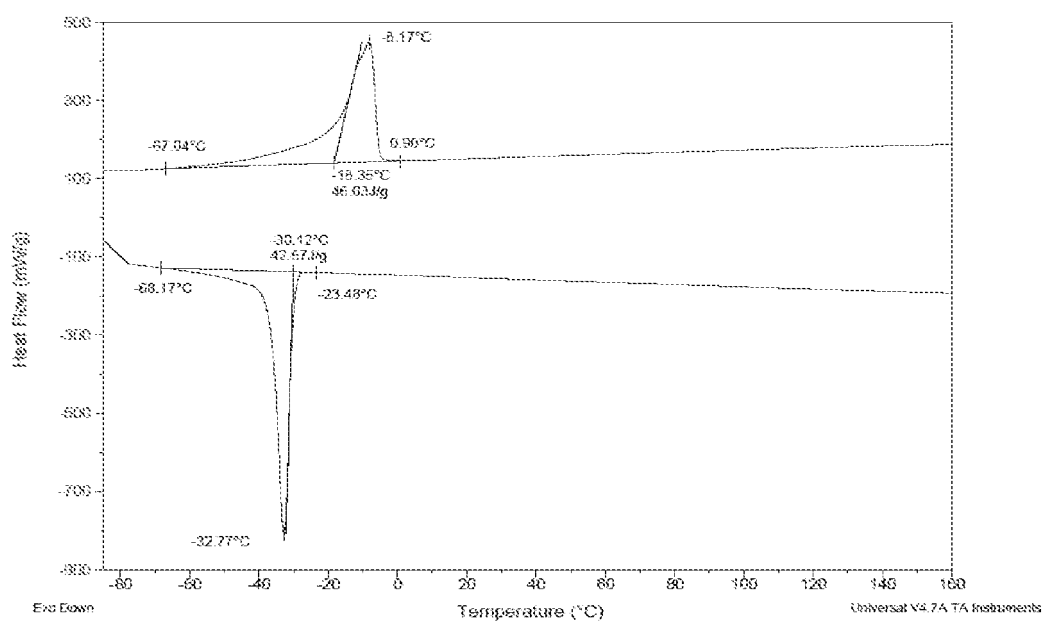


Figure 16

DSC diagram of the stereoregular diblock polybutadiene
of Example 19 (G1168)

17/20

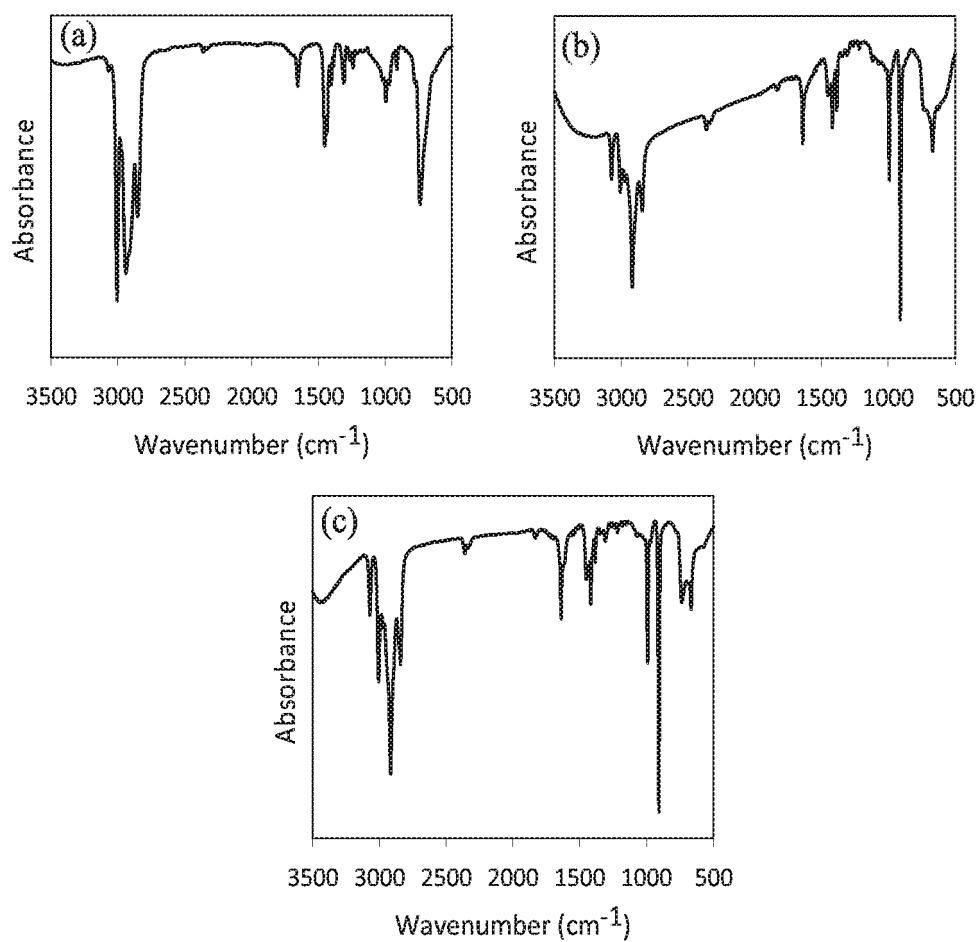


Figure 17

FT-IR spectra of the polybutadienes obtained: (a) MM67 (Example 25); (b) MM70 (Example 26);

(c) MM71 (Example 27)

18/20

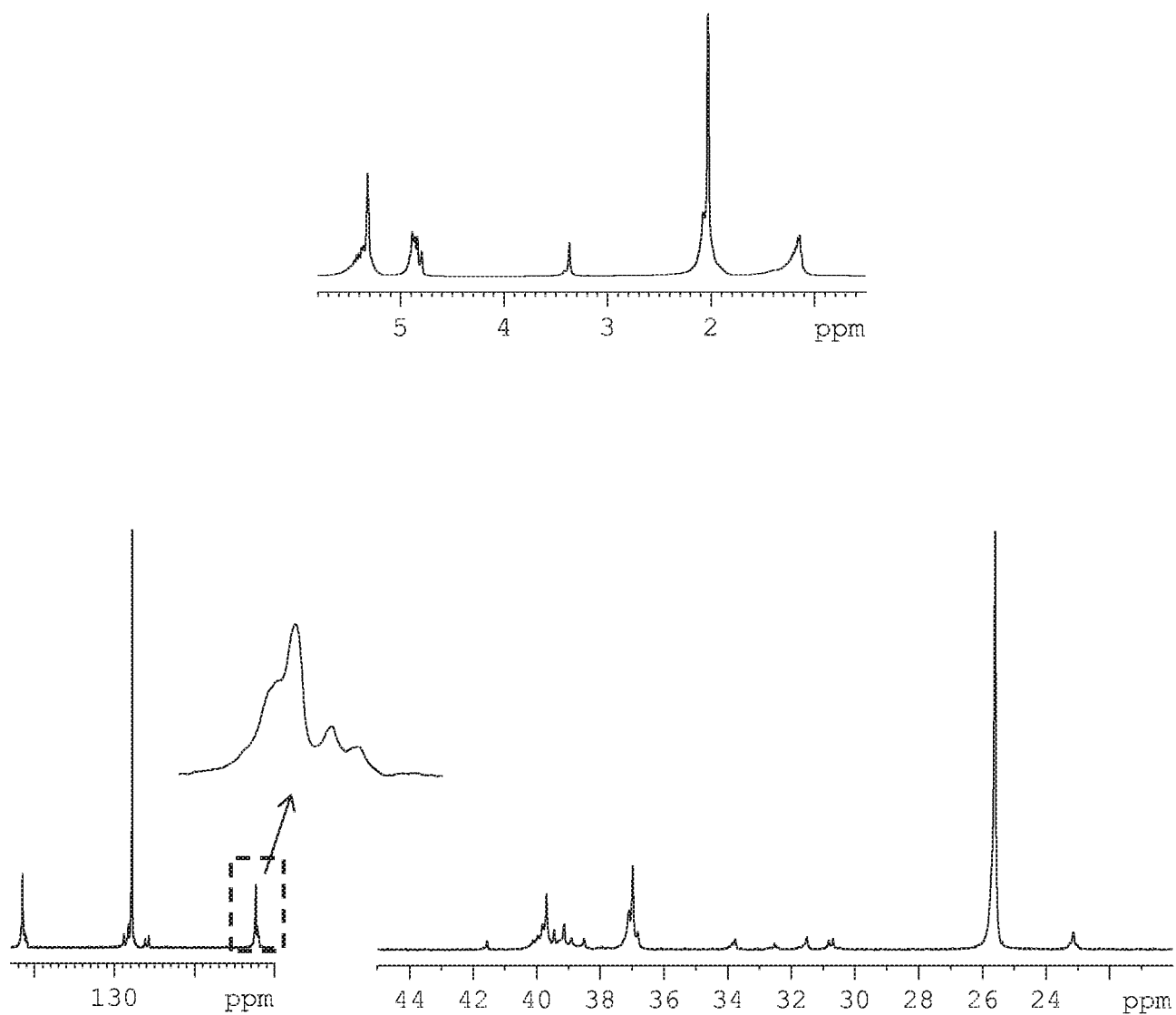


Figure 18

^{13}C -NMR spectrum (above) and ^1H -NMR spectrum (below) of the stereoregular diblock polybutadiene of Example 27 (MM71)

19/20

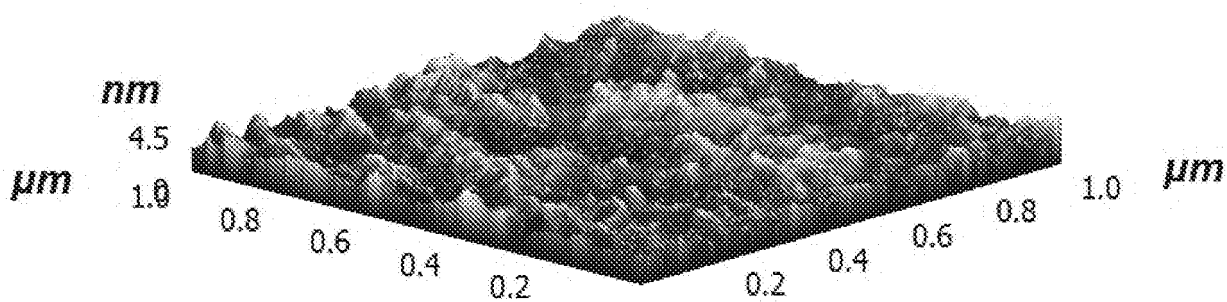
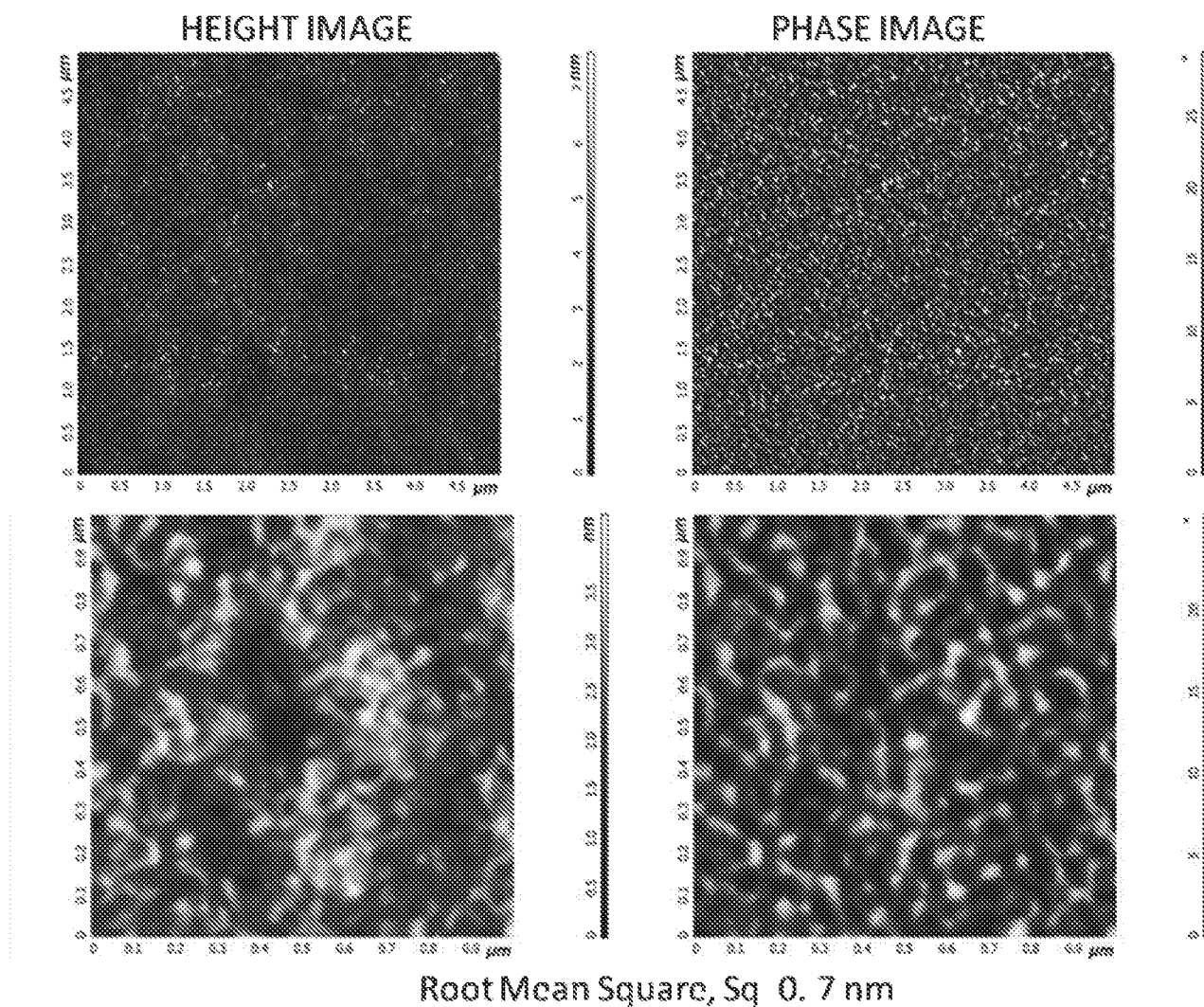


Figure 19

Atomic Force Microscopy (AFM) of the stereoregular diblock polybutadiene of Example 27 (MM71)

20/20

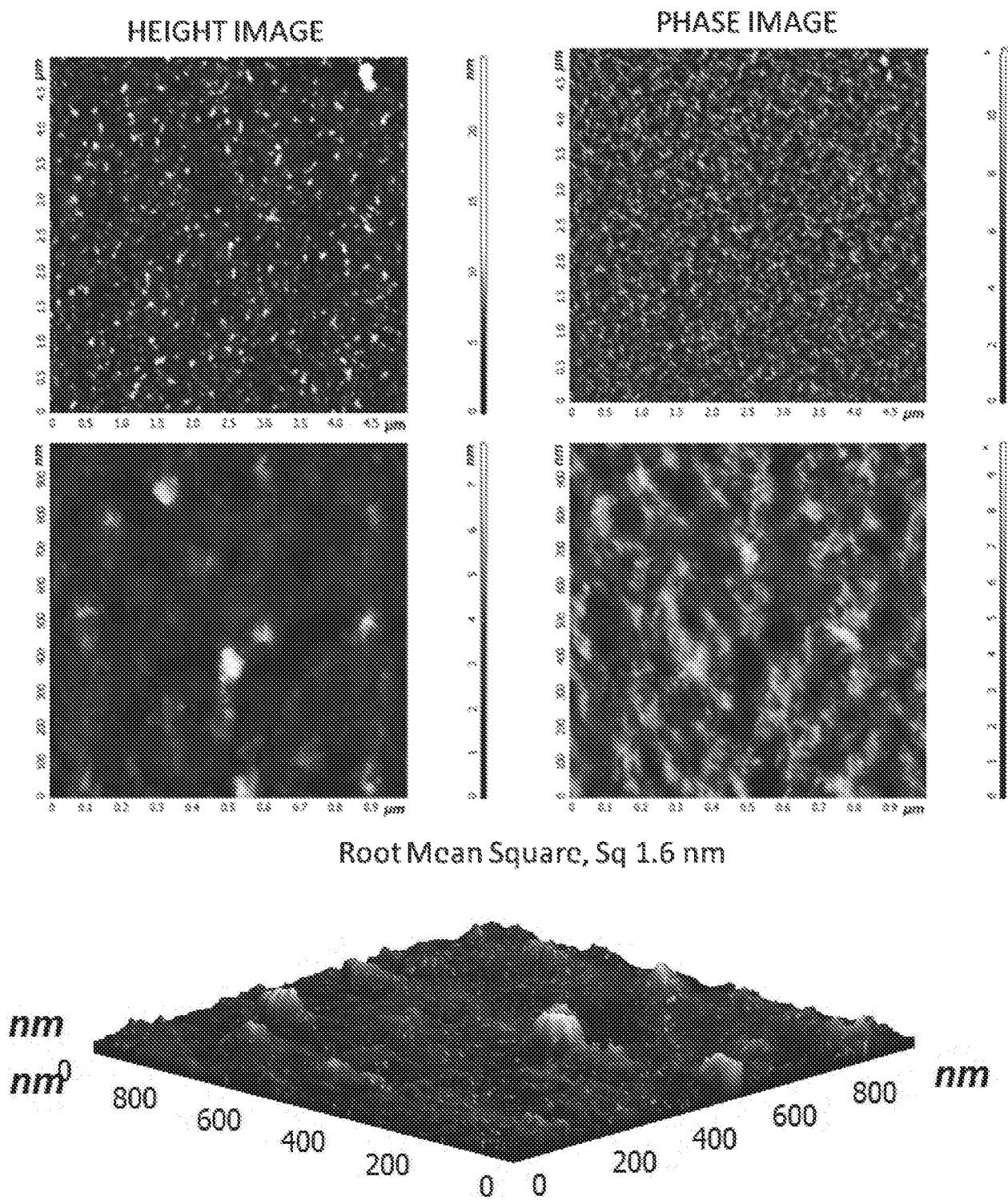


Figure 20

Atomic Force Microscopy (AFM) of the stereoregular diblock polybutadiene of Example 27 (MM71)