

Polymerization of 4-Methyl-1,3-pentadiene with Catalysts Based on Cyclopentadienyl Titanium Chlorides: Effect of *anti/syn* Isomerism of the Allylic Group on the Chemoselectivity and the Role of Backbiting Coordination in 1,3-Diene Polymerization

C. Cugini, O. A. Rombolà, A. Giarrusso, L. Porri, G. Ricci*

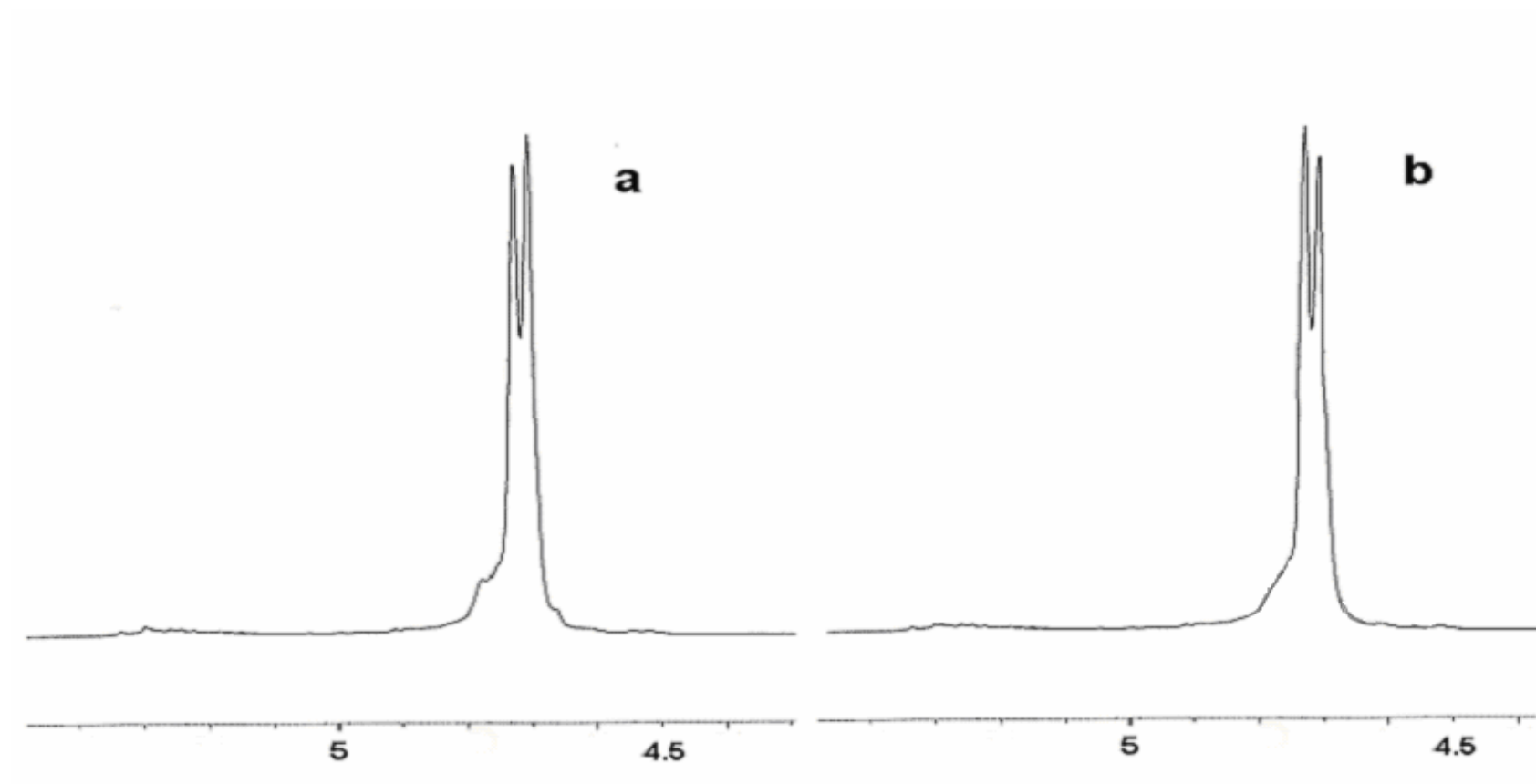


Figure 7. ^1H NMR spectra (olefinic region) of 4-methyl-1,3-pentadiene homopolymers obtained with $\text{Cp}_2\text{TiCl-MAO}$ (a) and $\text{CpTiCl}_3\text{-MAO}$ (b)

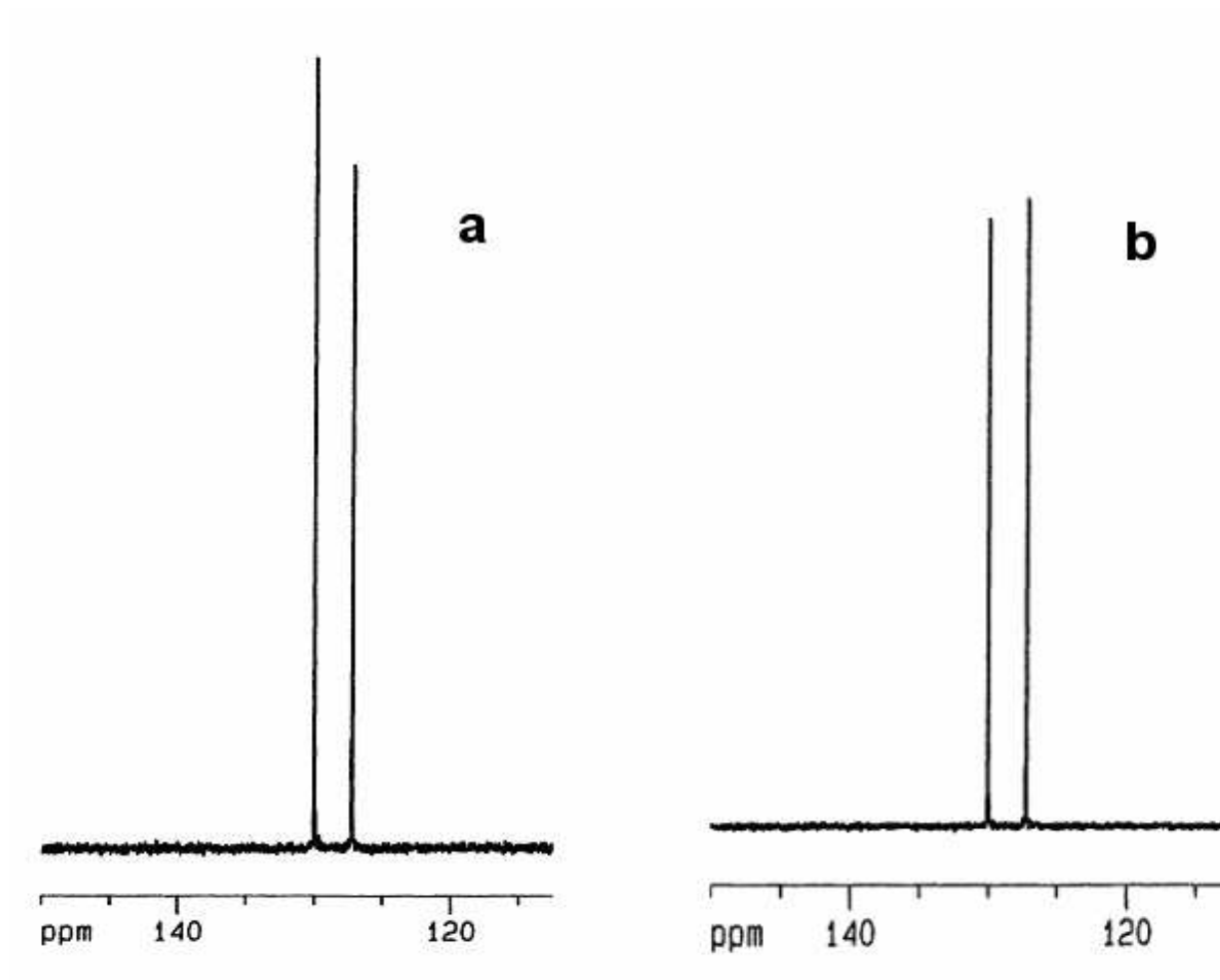


Figure 8. ^{13}C NMR spectra (olefinic region) of 4-methyl-1,3-pentadiene homopolymers obtained with $\text{Cp}_2\text{TiCl-MAO}$ (a) and $\text{CpTiCl}_3\text{-MAO}$ (b).

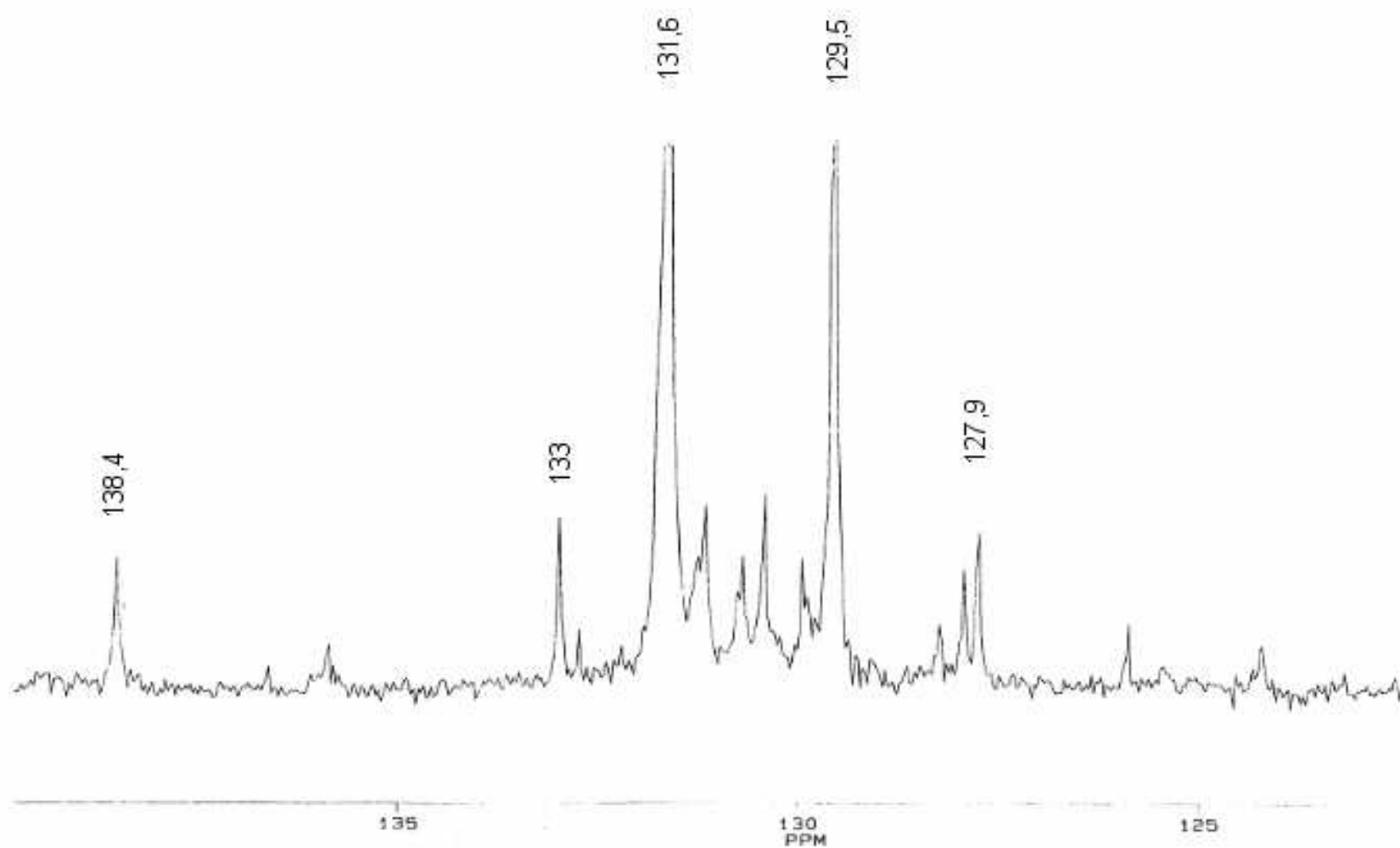


Figure 9. ^{13}C NMR spectrum (olefinic region) of 4-methyl-1,3-pentadiene/ethylene copolymer obtained with $\text{CpTiCl}_3\text{-MAO}$.

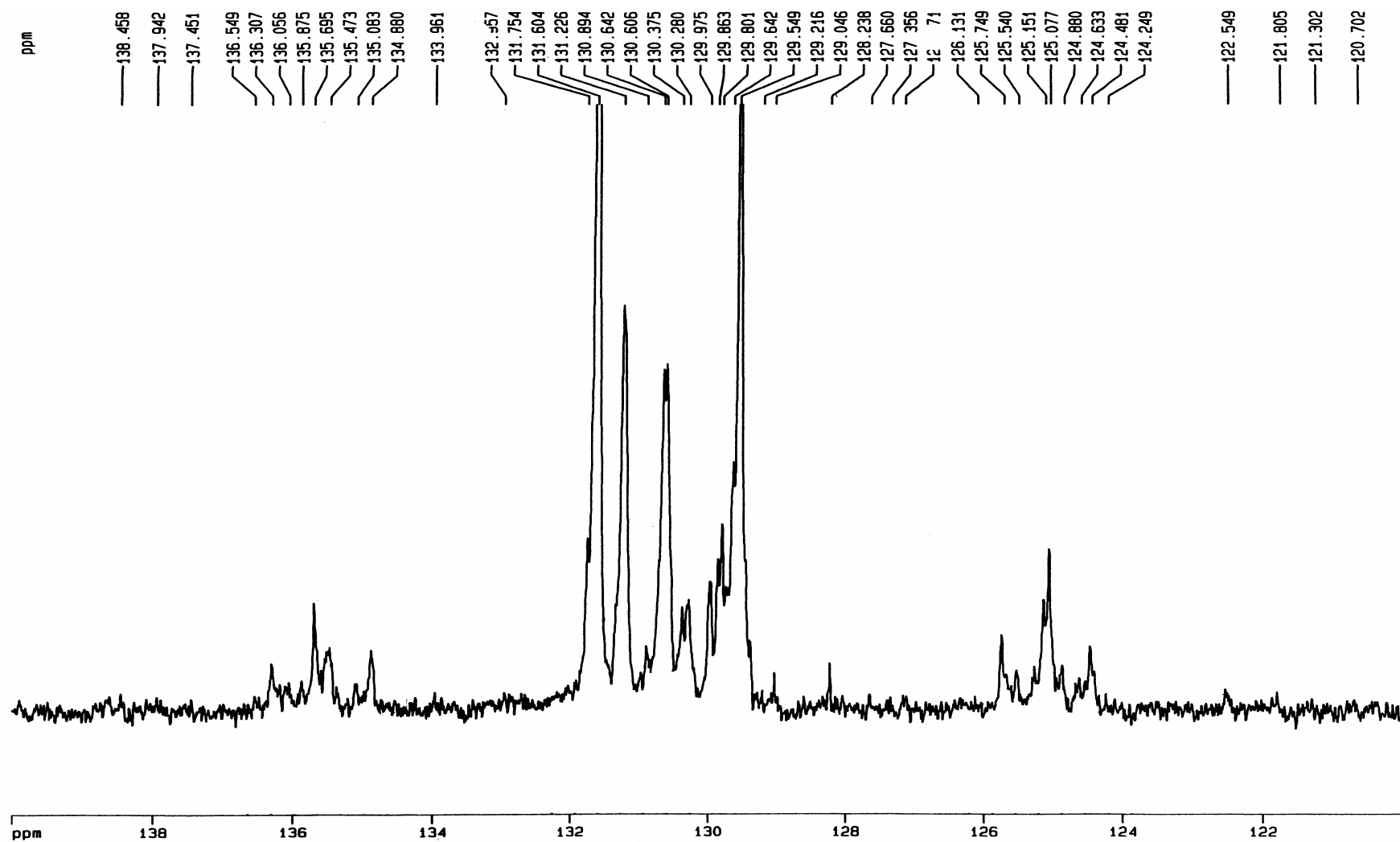


Figure 10. ^{13}C NMR spectrum (olefinic region) of 4-methyl-1,3-pentadiene/1-pentene copolymer obtained with $\text{CpTiCl}_3\text{-MAO}$.

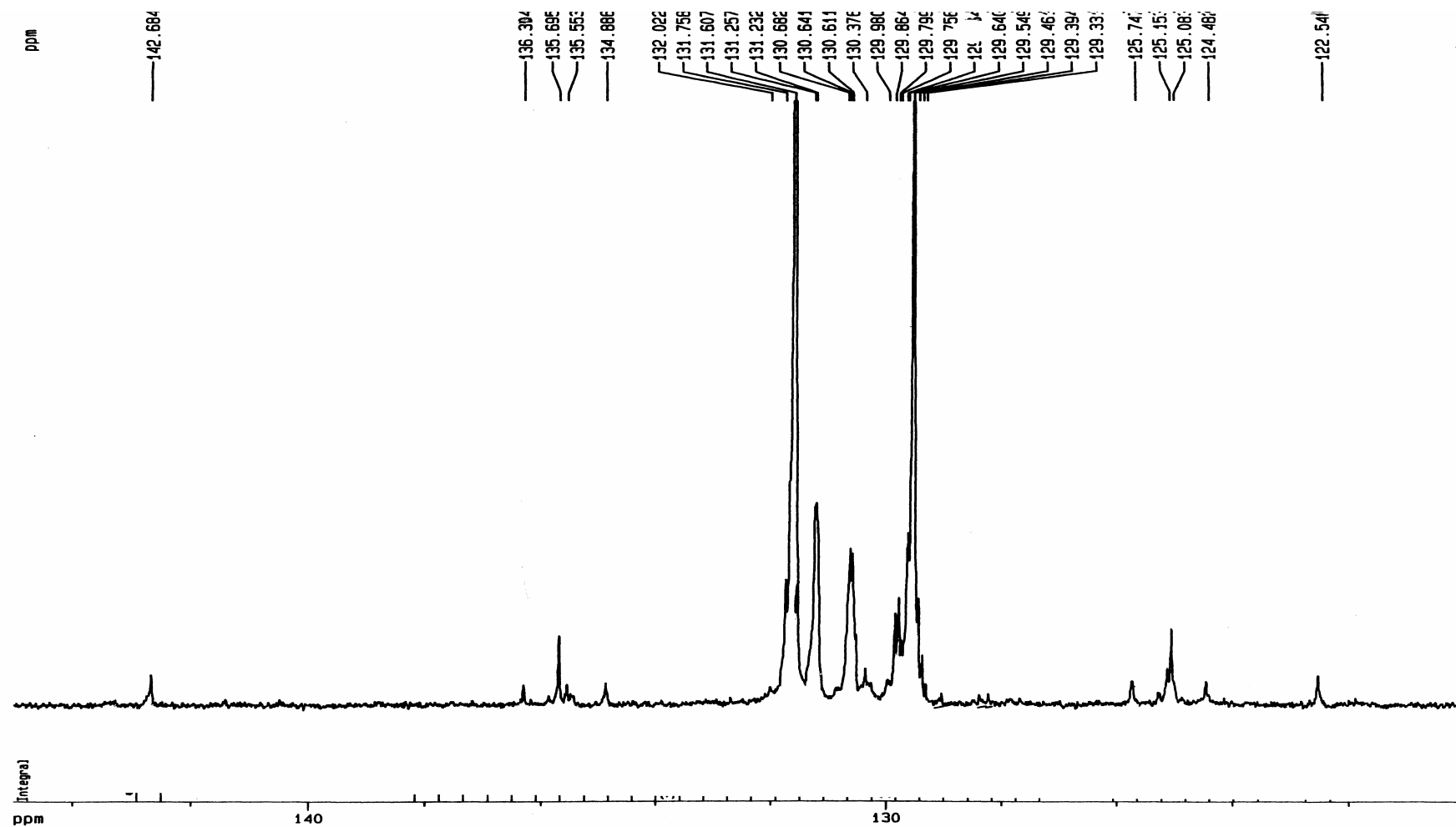


Figure 11. ^{13}C NMR spectrum (olefinic region) of 4-methyl-1,3-pentadiene/1-pentene copolymer obtained with $\text{Cp}_2\text{TiCl-MAO}$.

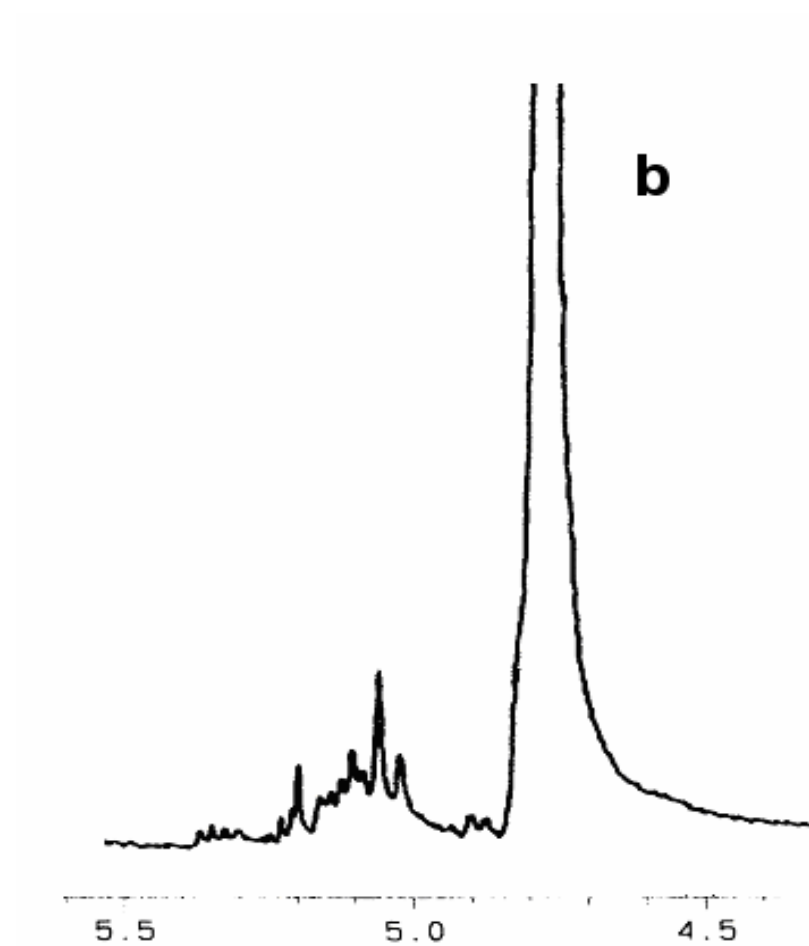
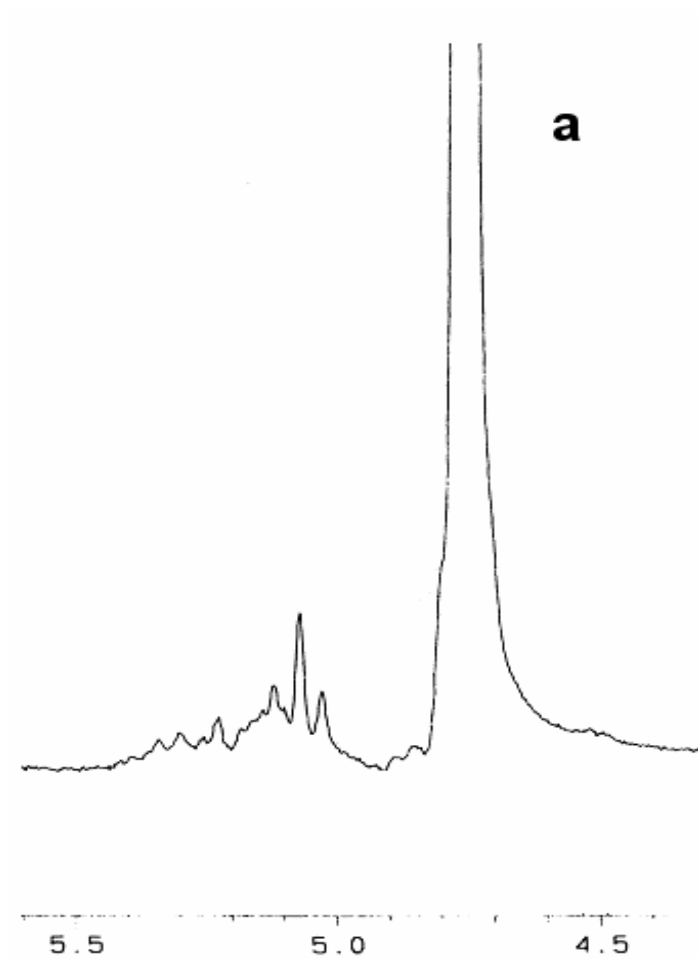


Figure 12. ¹H NMR spectra (olefinic region) of 4-methyl-1,3-pentadiene/ethylene copolymers obtained with Cp₂TiCl-MAO (a) and CpTiCl₃-MAO (b).