

## **Appendix One**

### **$^{13}\text{C}$ NMR Spectra for Chapter Two**

# 1 $^{13}\text{C}$ NMR Spectra for Chapter 2

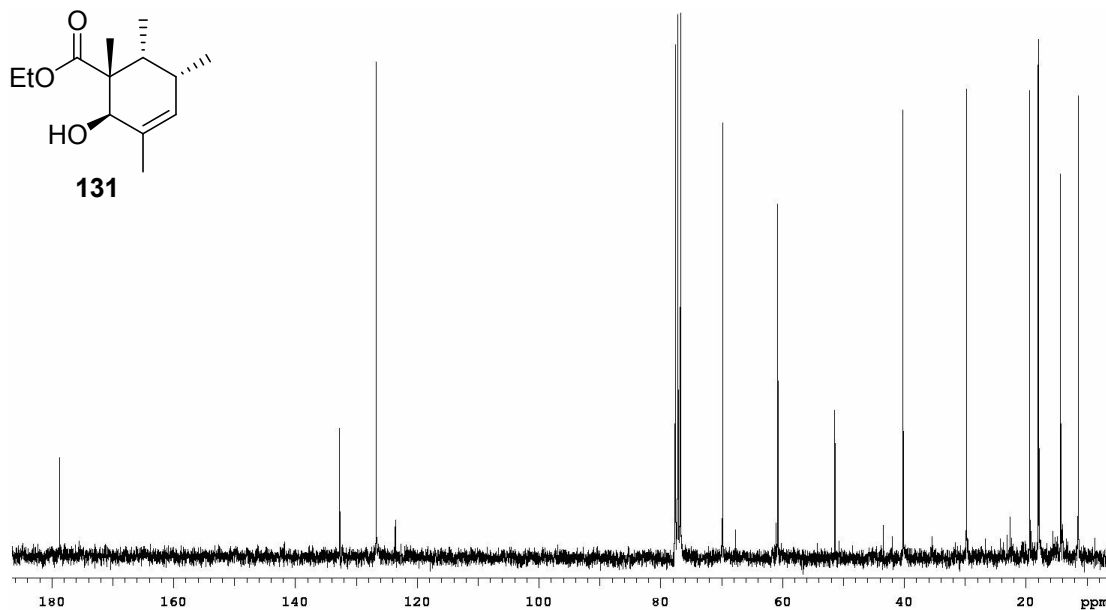


Figure 1.1.  $^{13}\text{C}$  NMR spectrum of ester **131** in  $\text{CDCl}_3$  at 300 MHz.

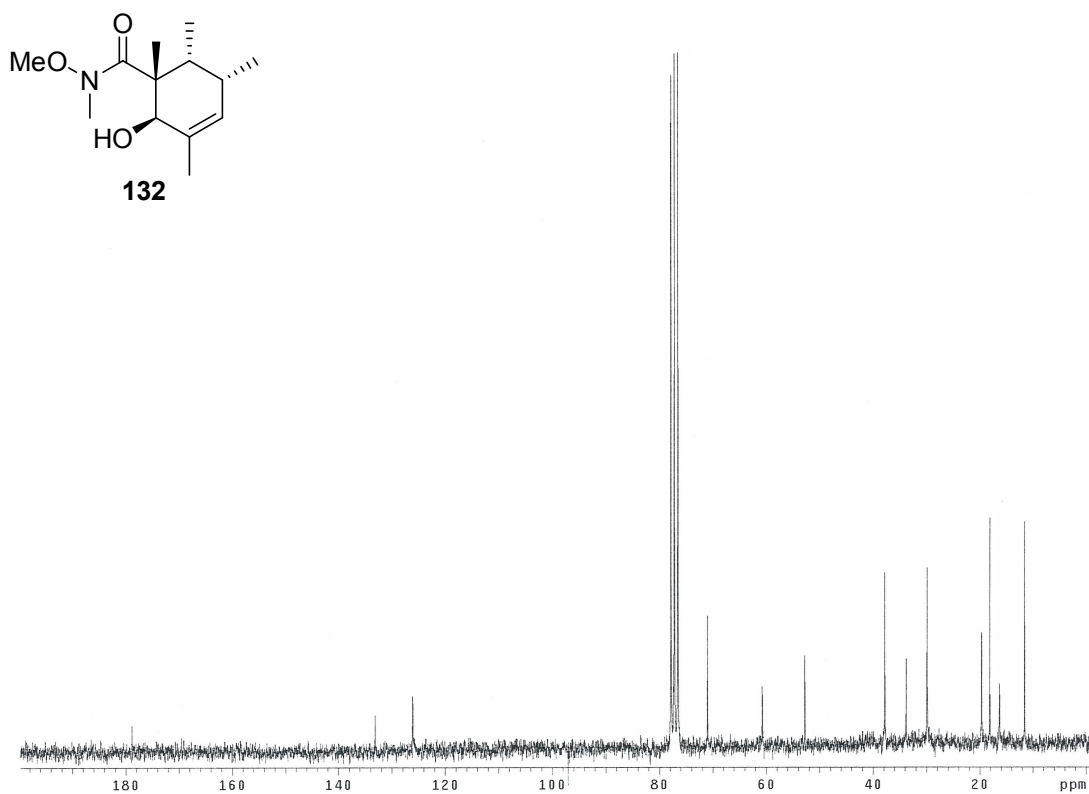


Figure 1.2.  $^{13}\text{C}$  NMR spectrum of amide **132** in  $\text{CDCl}_3$  at 300 MHz.

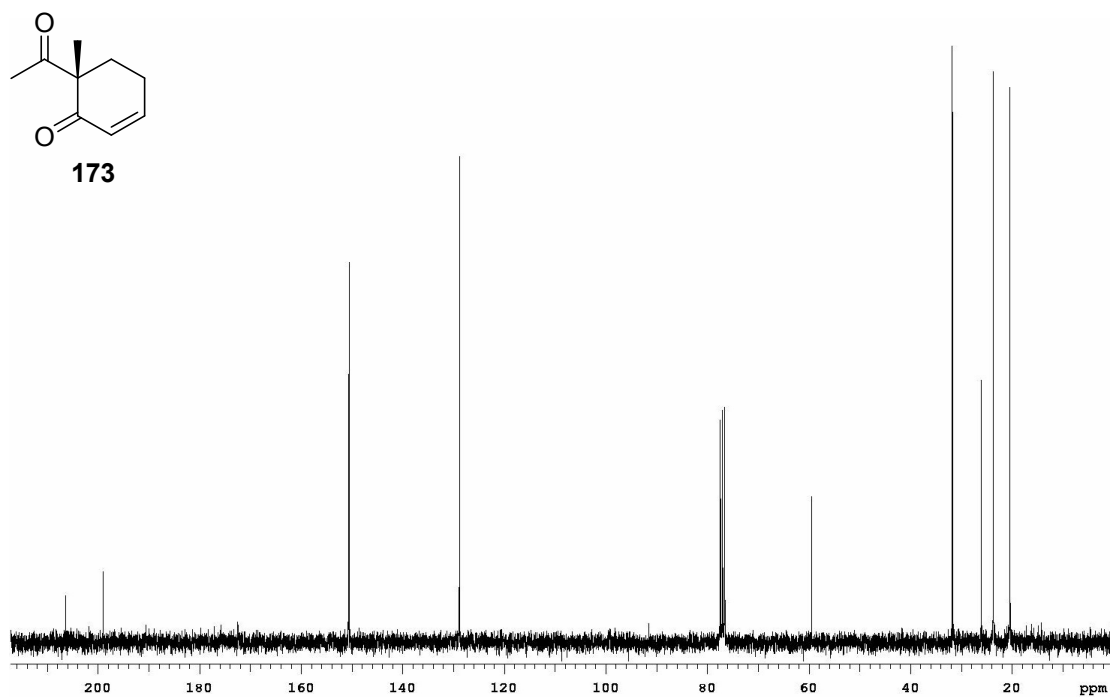


Figure 1.3.  $^{13}\text{C}$  NMR spectrum of cyclohexenone **173** in  $\text{CDCl}_3$  at 300 MHz.

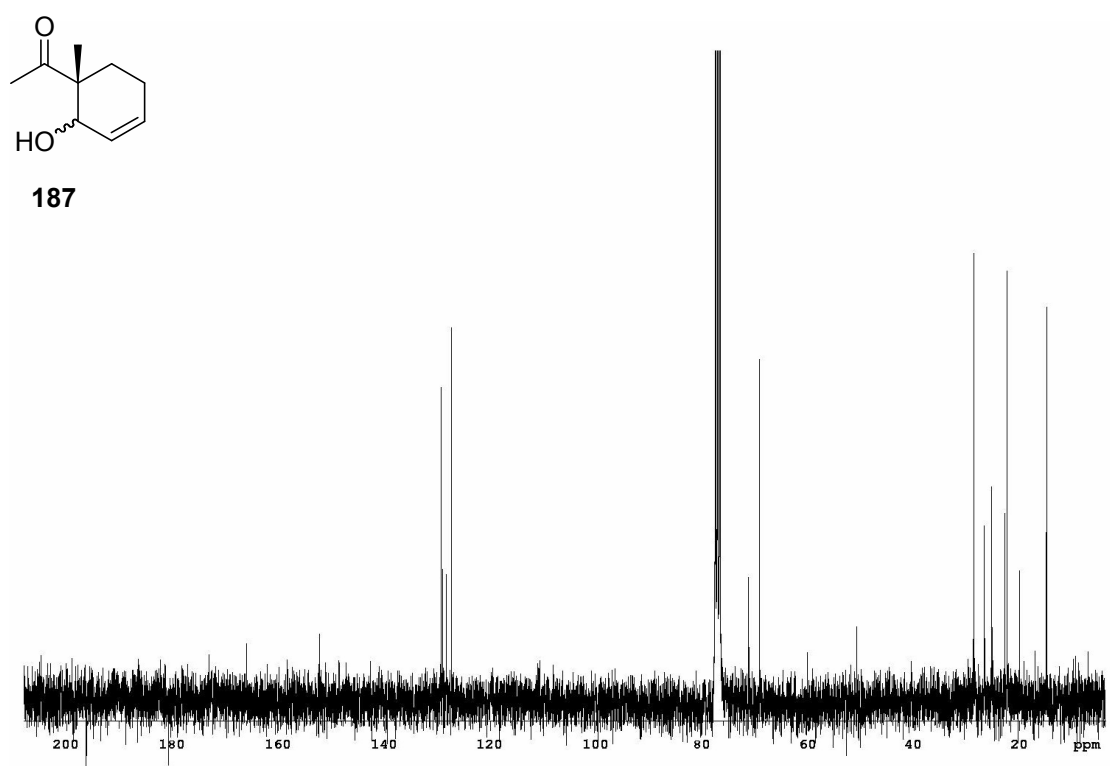


Figure 1.4.  $^{13}\text{C}$  NMR spectrum of allylic alcohol **187** in  $\text{CDCl}_3$  at 300 MHz.

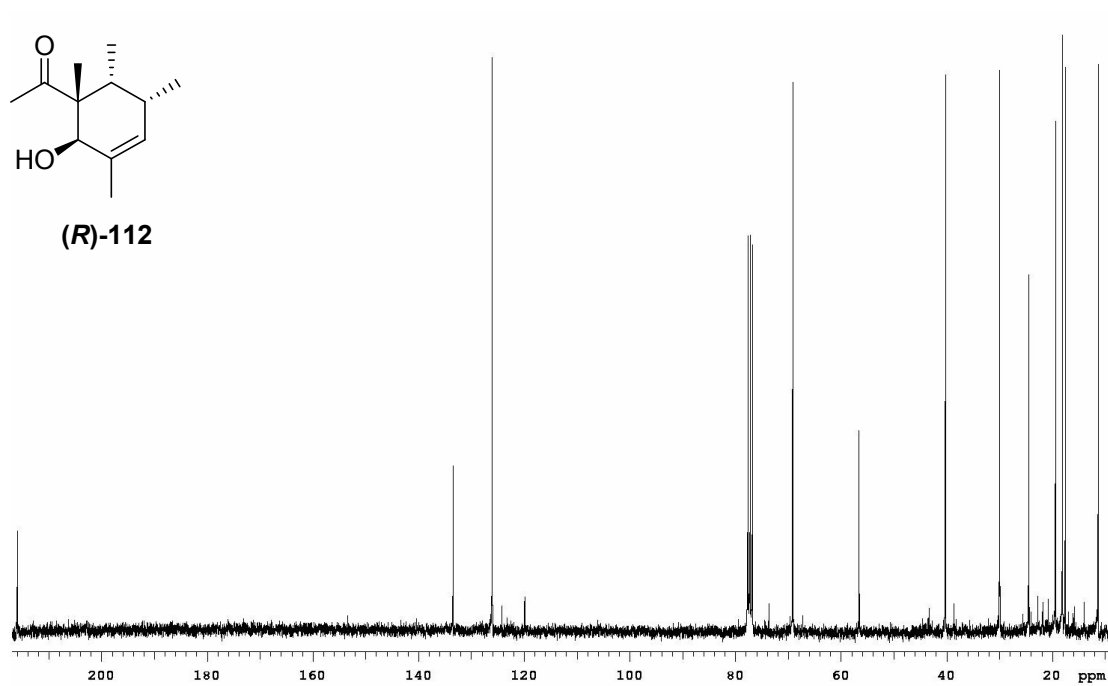


Figure 1.5.  $^{13}\text{C}$  NMR spectrum of allylic alcohol (R)-112 in  $\text{CDCl}_3$  at 300 MHz.

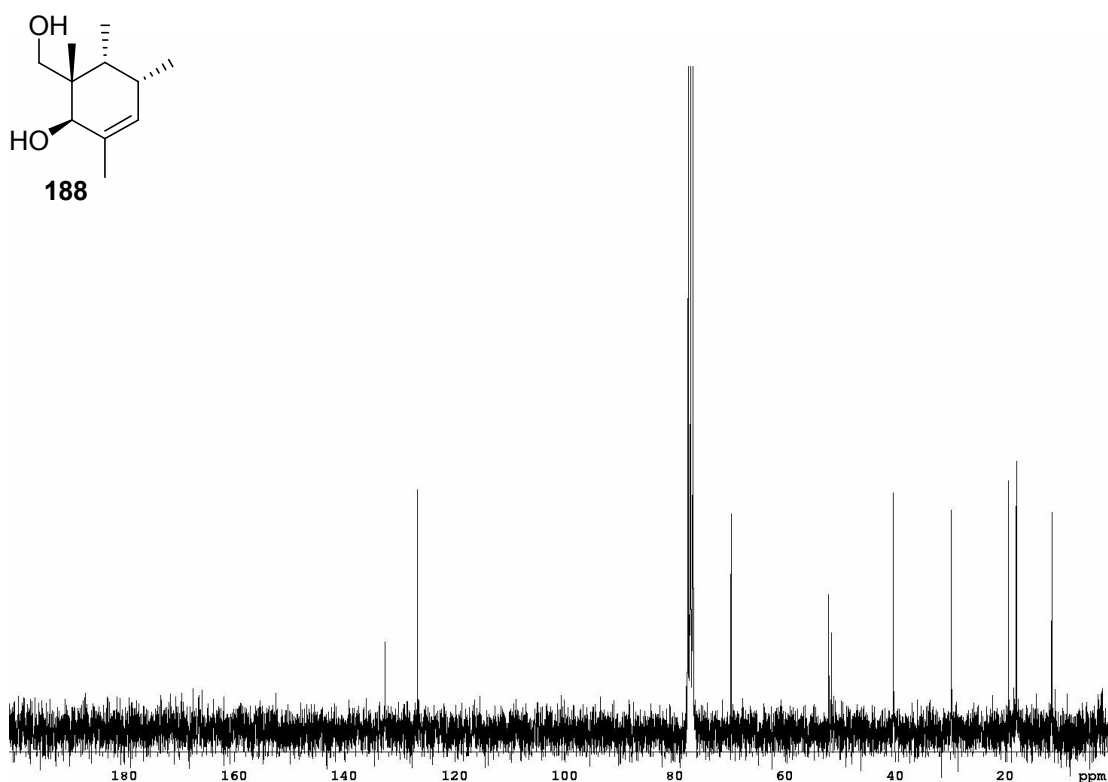


Figure 1.6.  $^{13}\text{C}$  NMR spectrum of diol 188 in  $\text{CDCl}_3$  at 300 MHz.

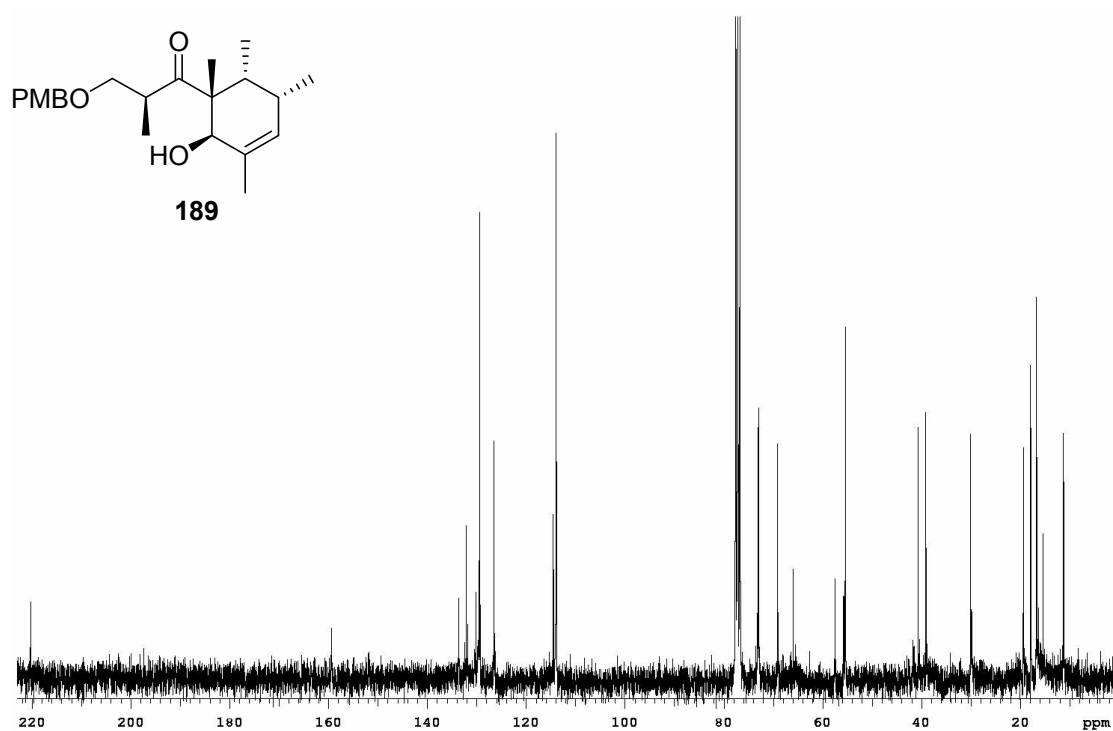


Figure 1.7.  $^{13}\text{C}$  NMR spectrum of anti methylated allylic alcohol **189** in  $\text{CDCl}_3$  at 300 MHz.

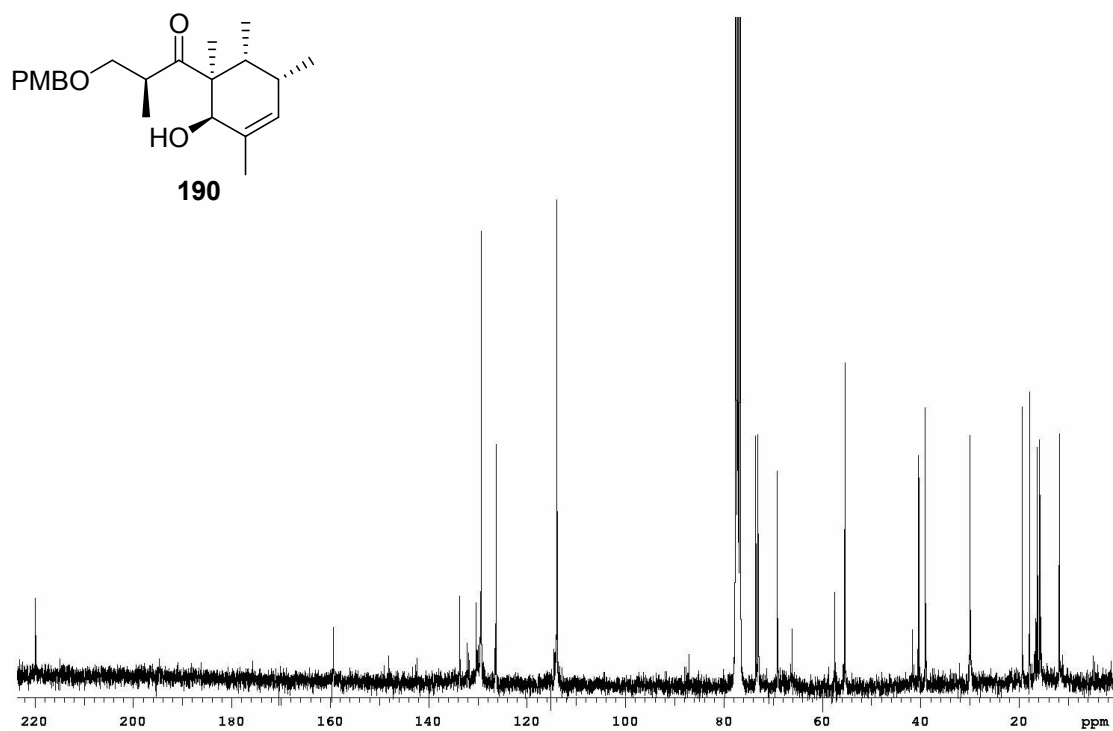


Figure 1.8.  $^{13}\text{C}$  NMR spectrum of syn methylated allylic alcohol **190** in  $\text{CDCl}_3$  at 300 MHz.