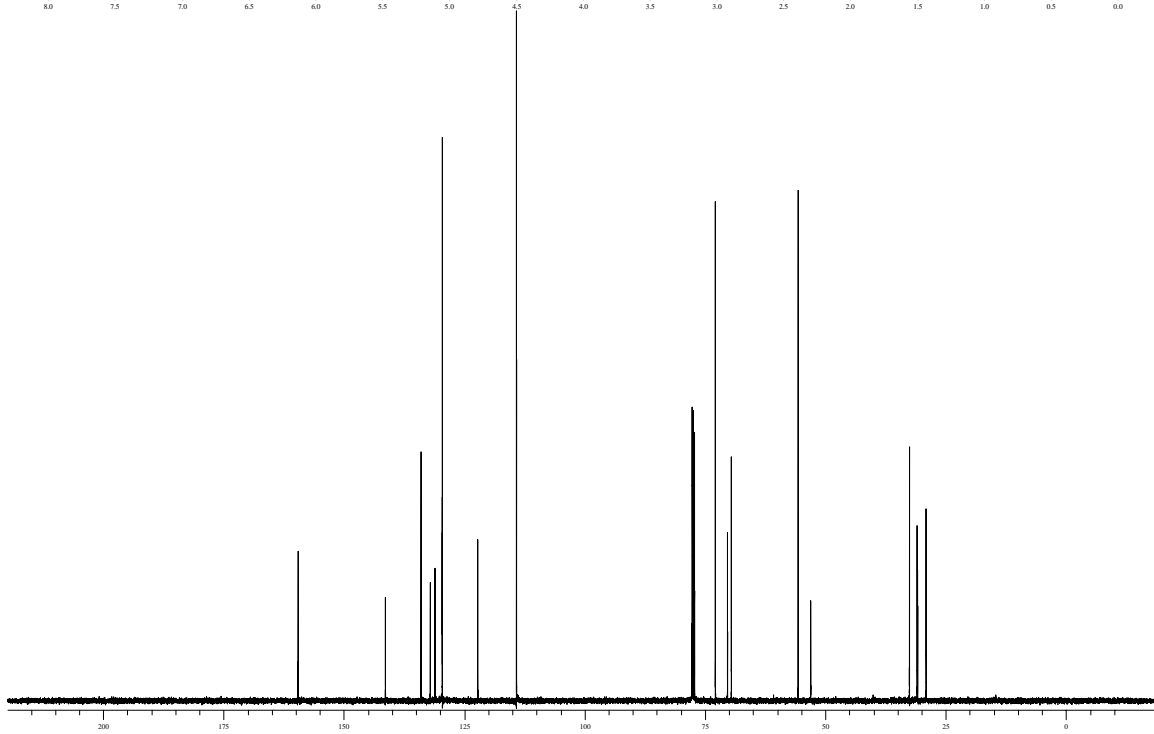
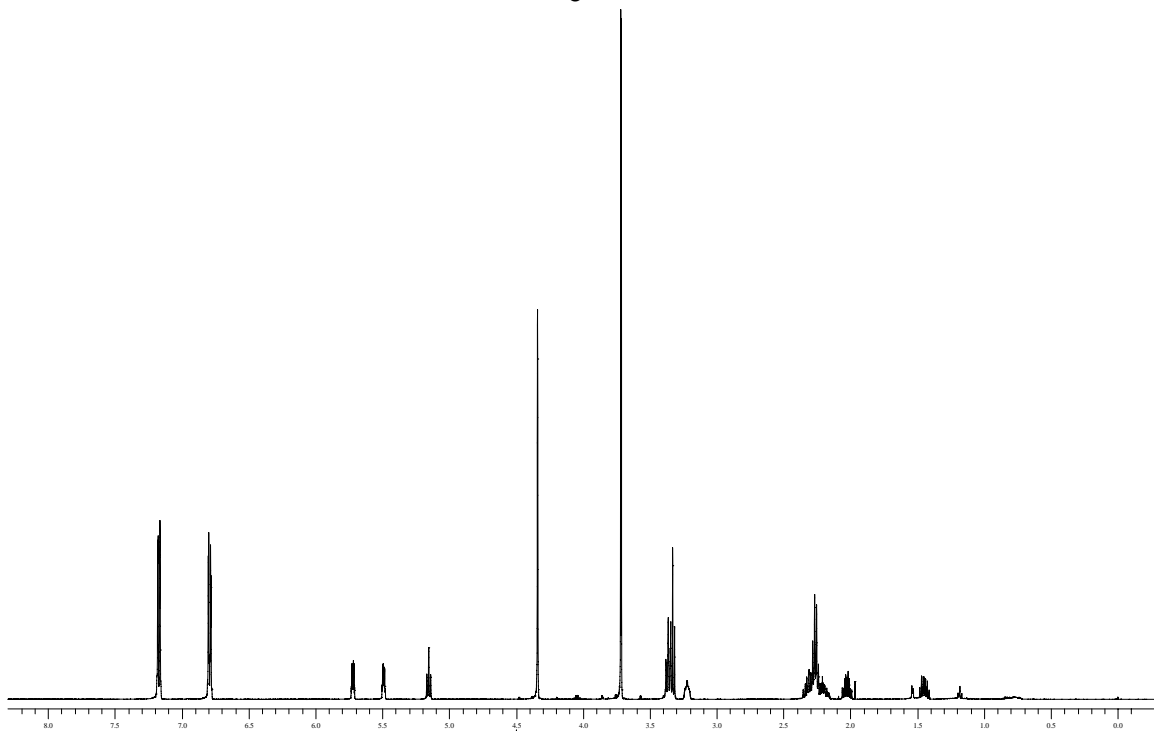
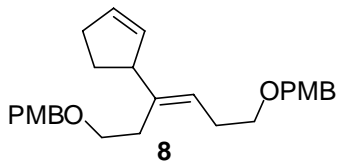


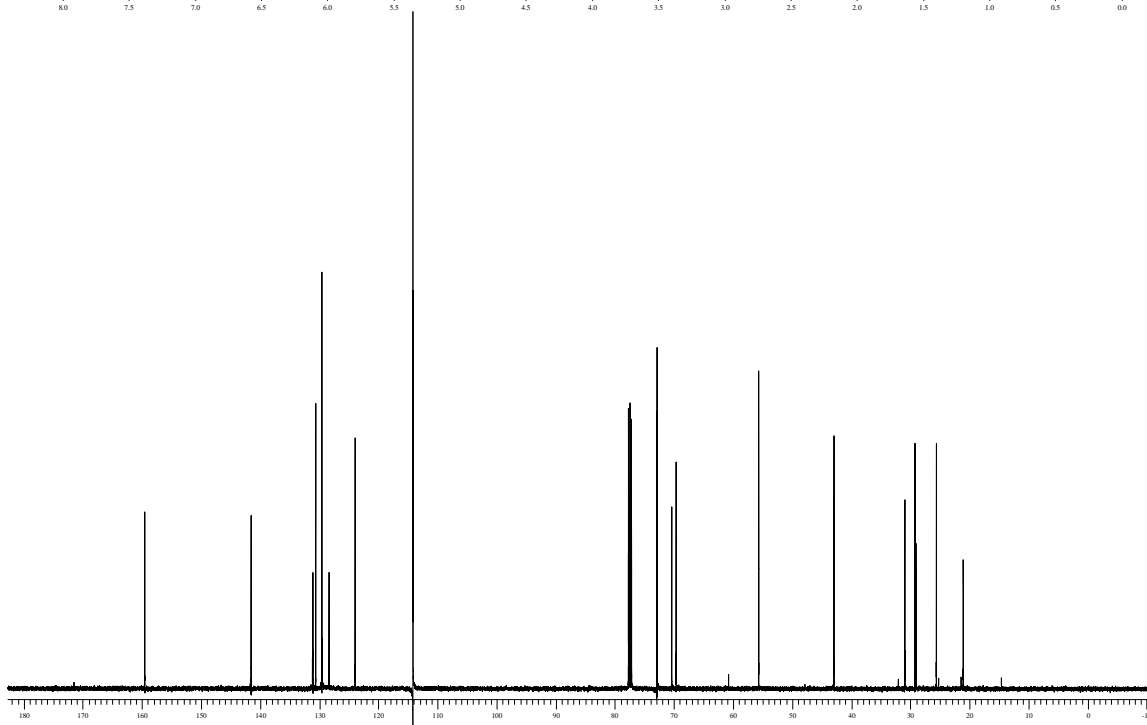
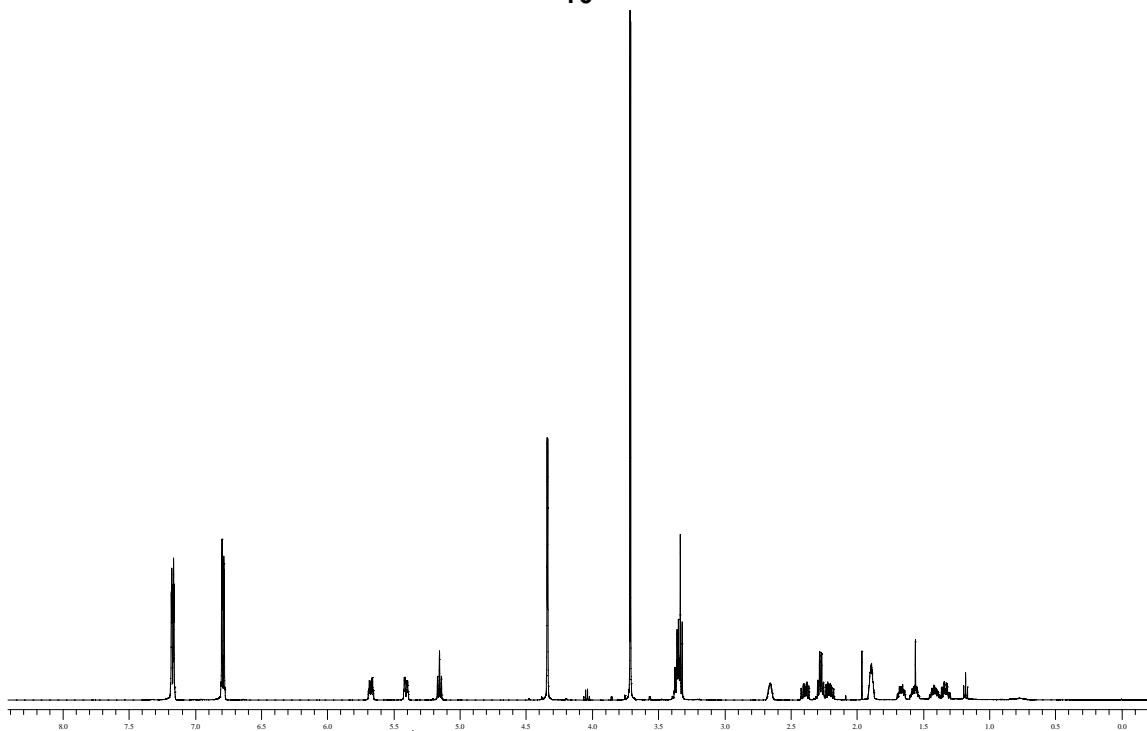
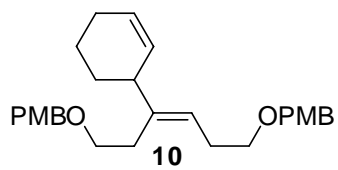
**Synthesis of Substituted 1,4-Dienes by
Direct Alkylation of Allylic Alcohols**

SUPPORTING INFORMATION—2:

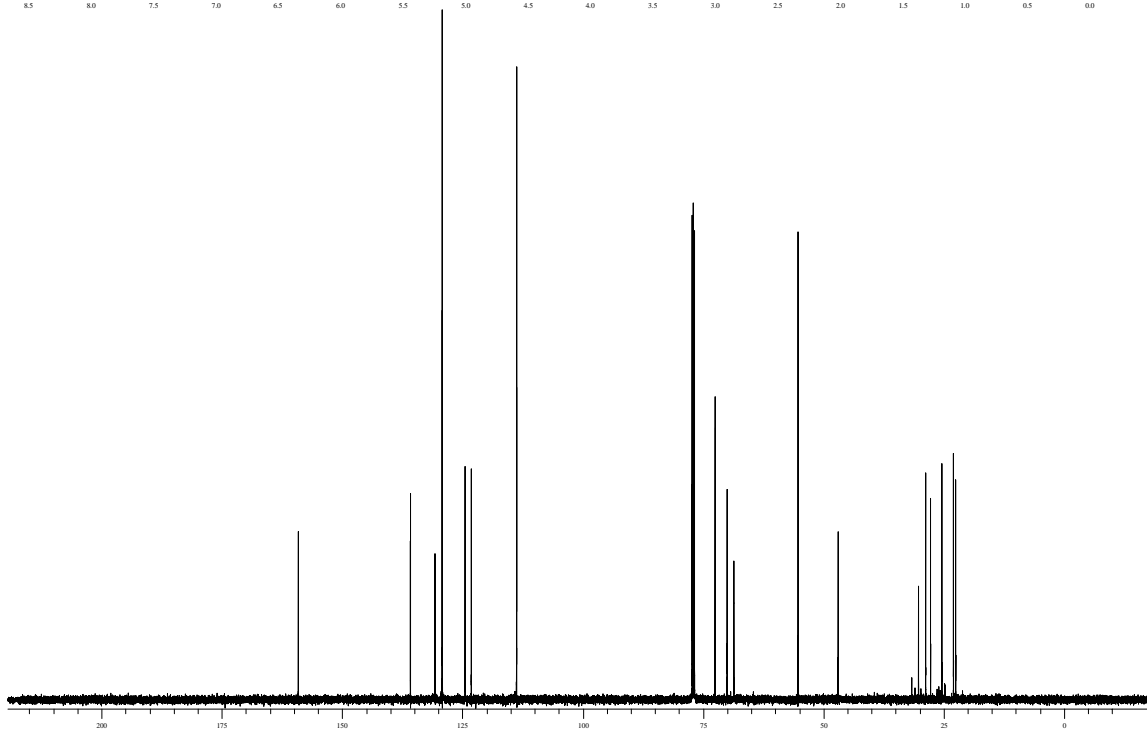
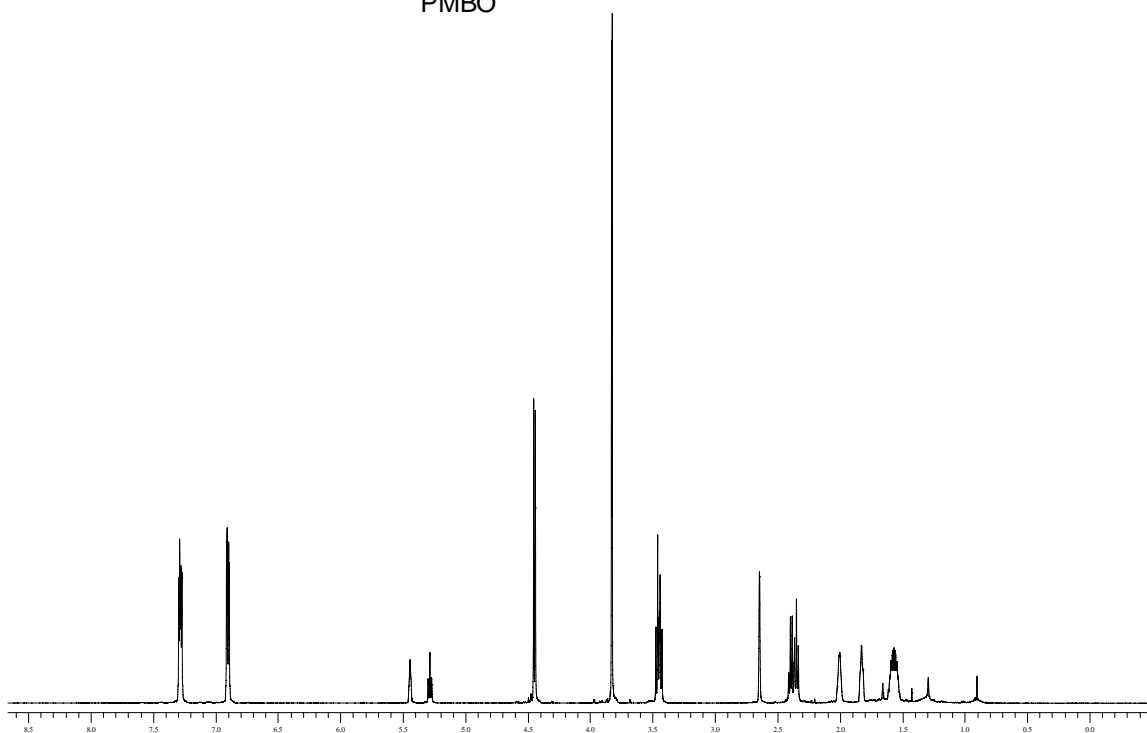
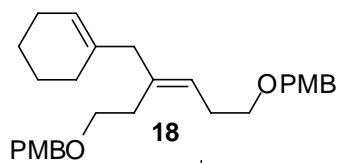
Spectral Data for Compounds 8-49



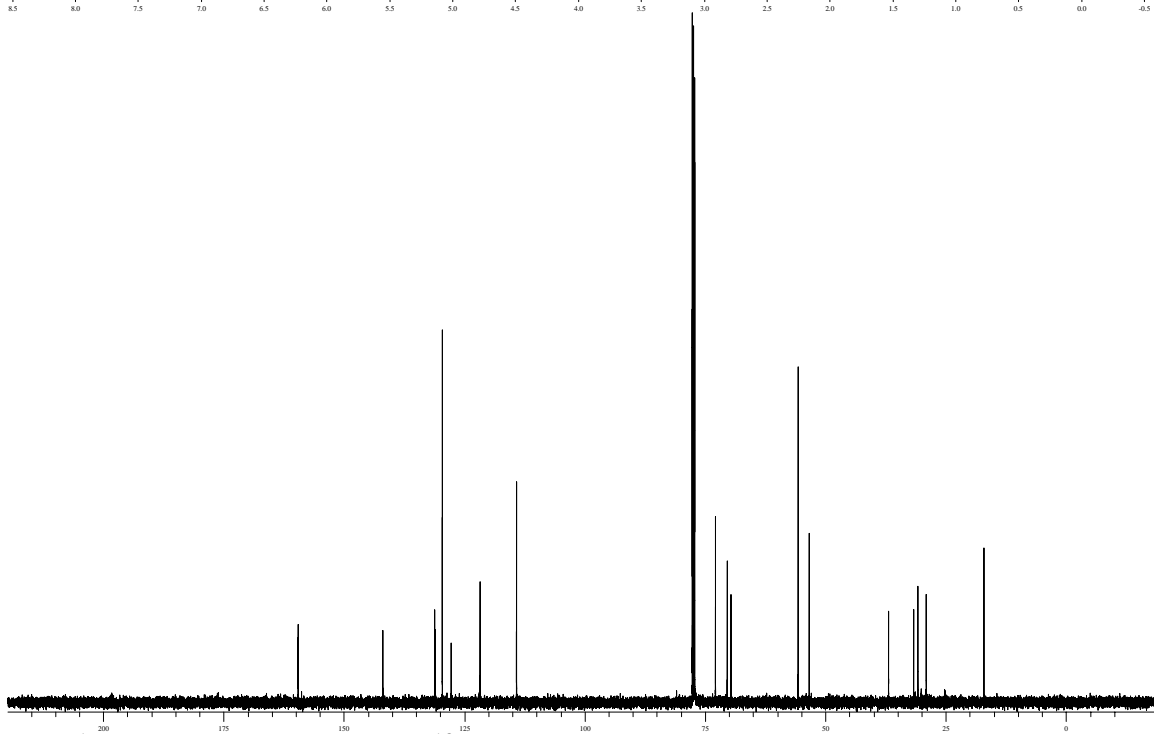
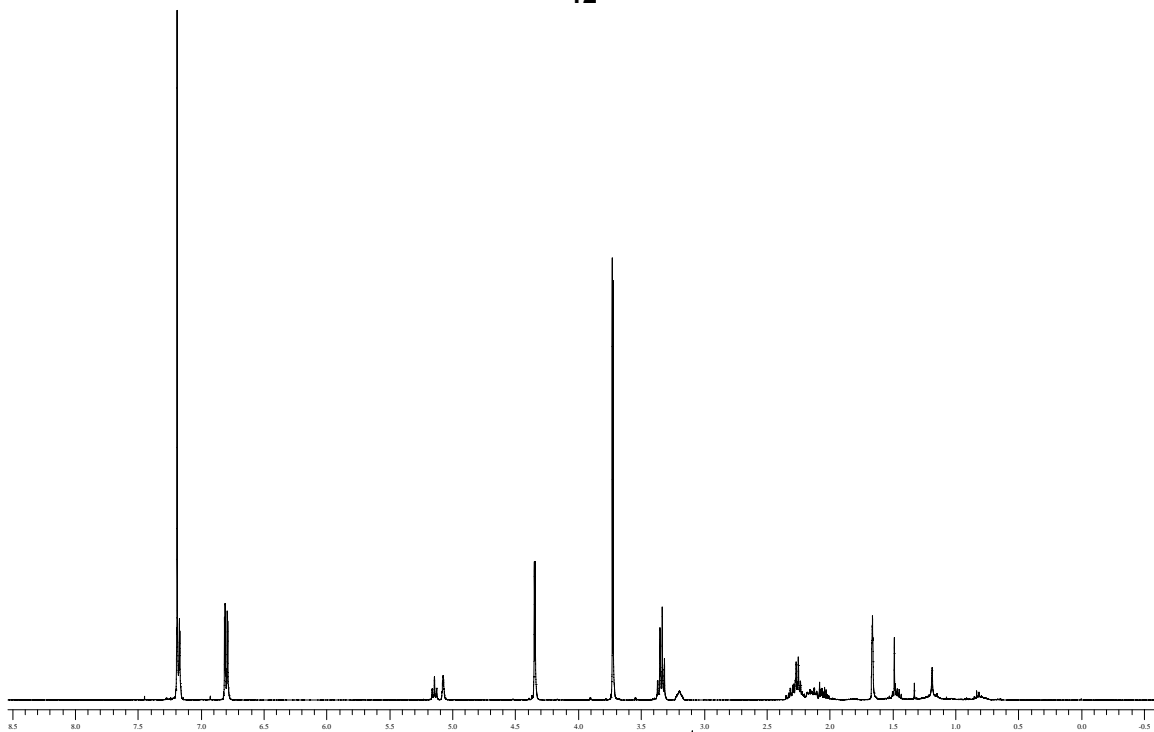
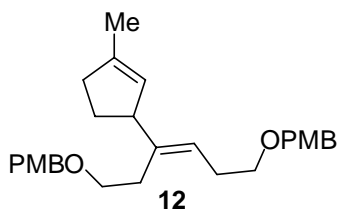
¹H NMR (500 MHz) and ¹³C NMR (126 MHz) of compound **8** (CDCl₃)



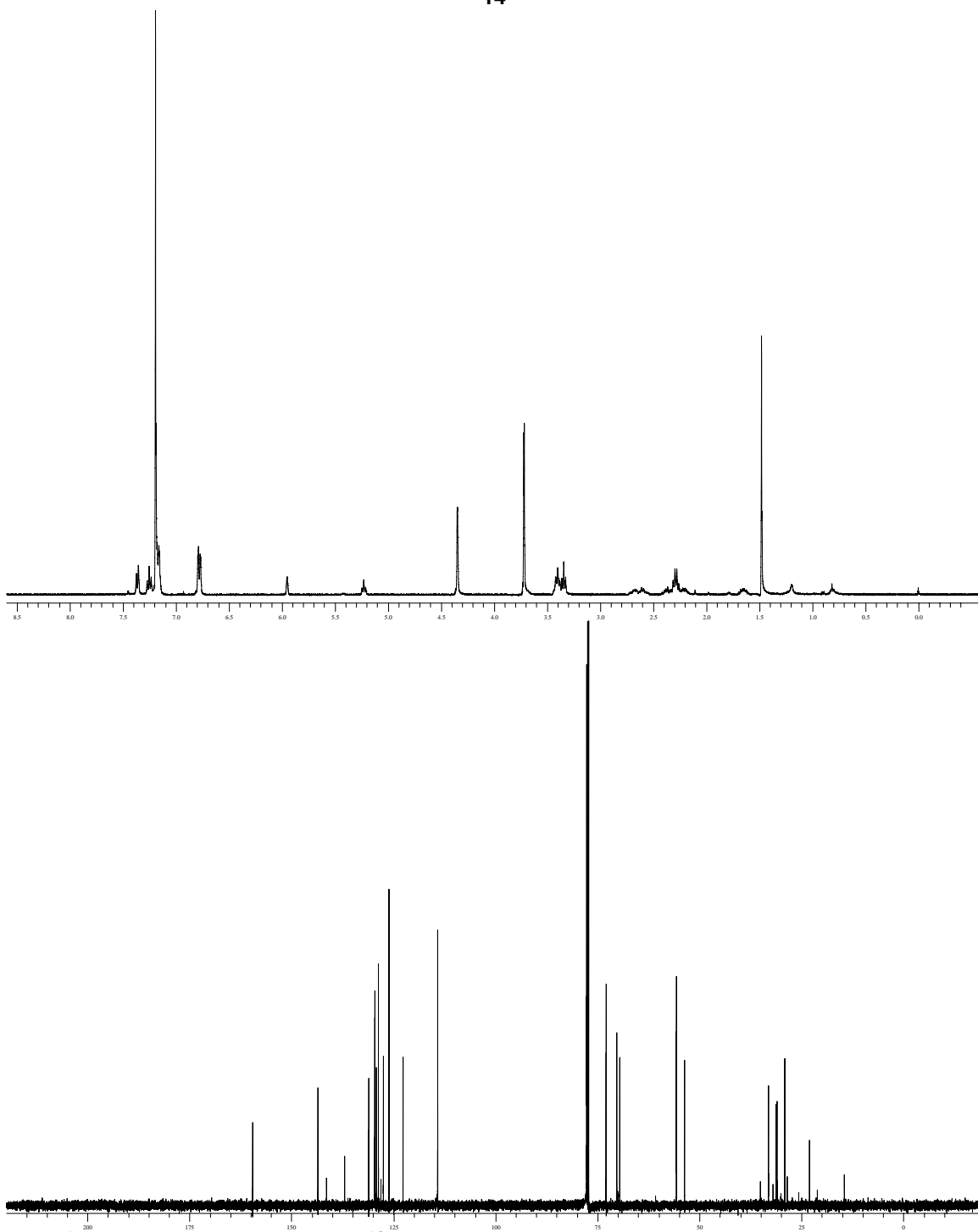
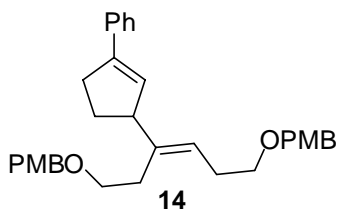
^1H NMR (500 MHz) and ^{13}C NMR (126 MHz) of compound **10** (CDCl_3)



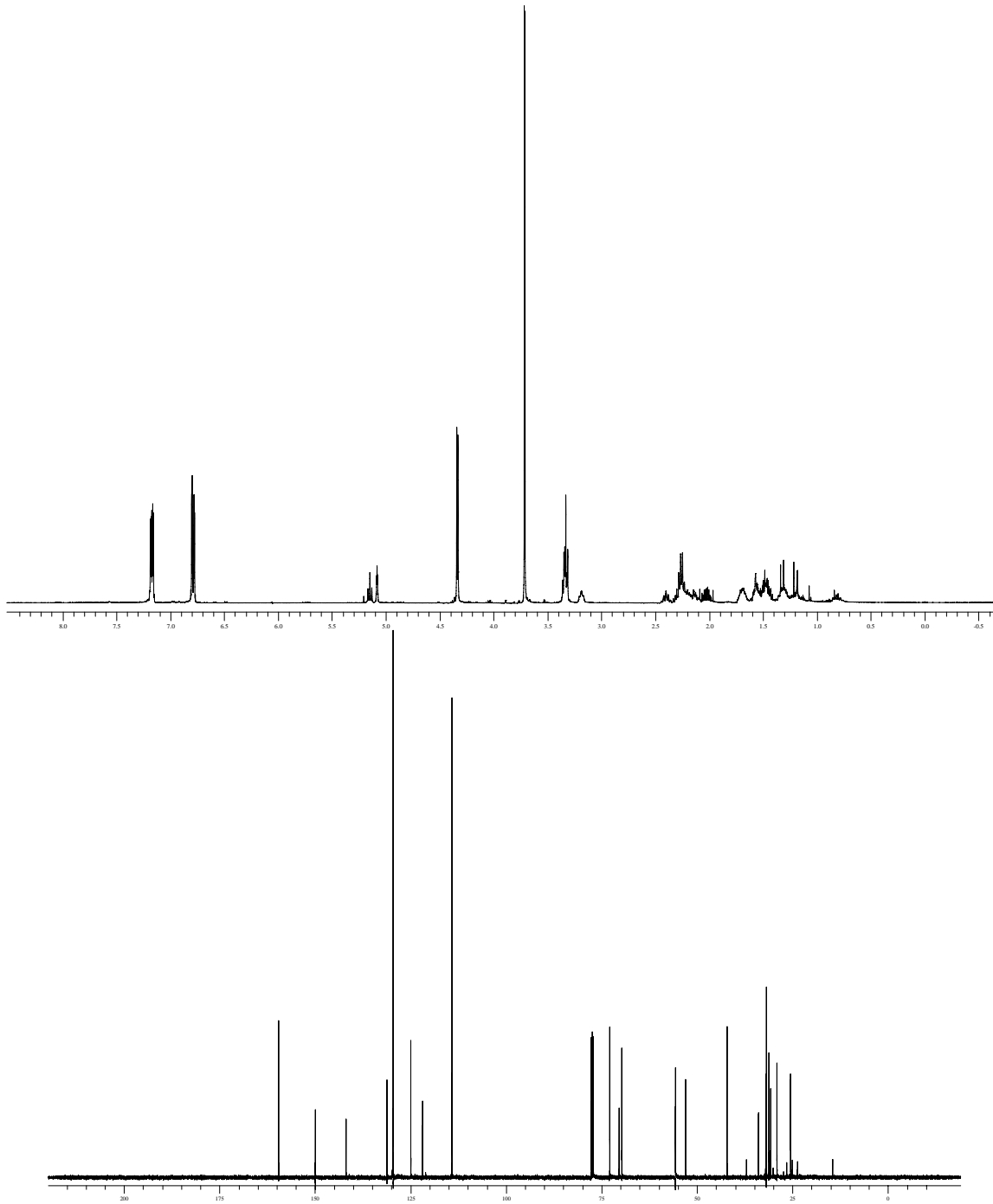
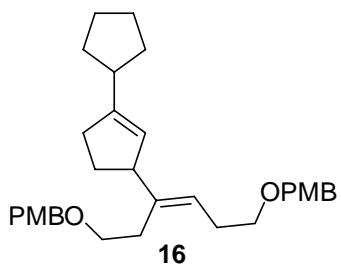
^1H NMR (500 MHz) and ^{13}C NMR (126 MHz) of compound **18** (CDCl_3)



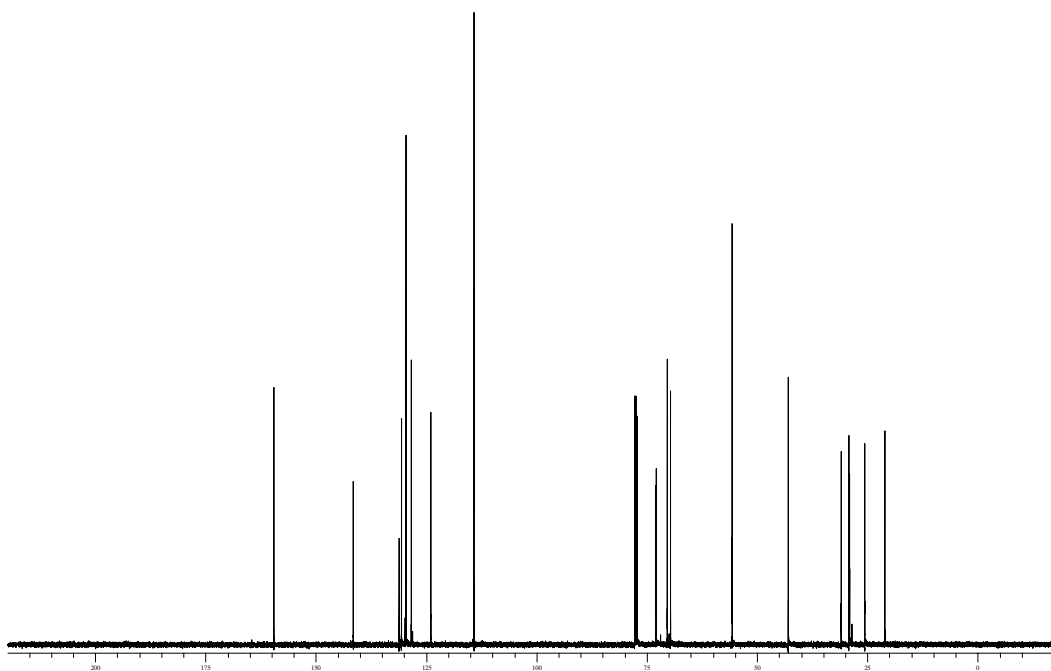
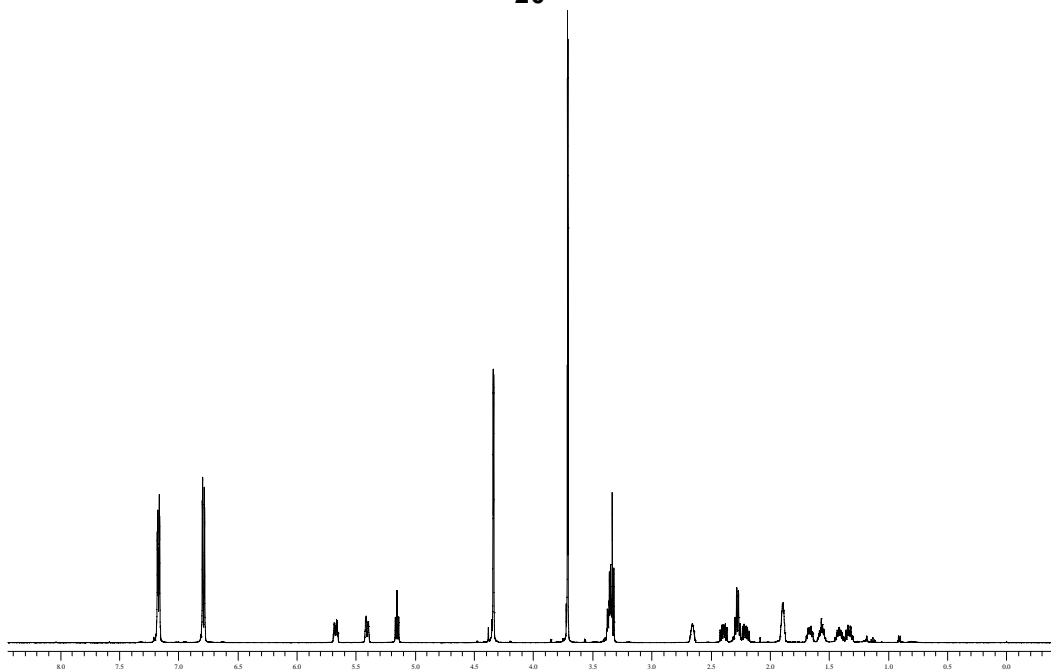
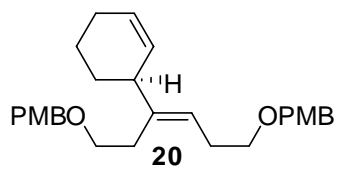
^1H NMR (500 MHz) and ^{13}C NMR (126 MHz) of compound **12** (CDCl_3)



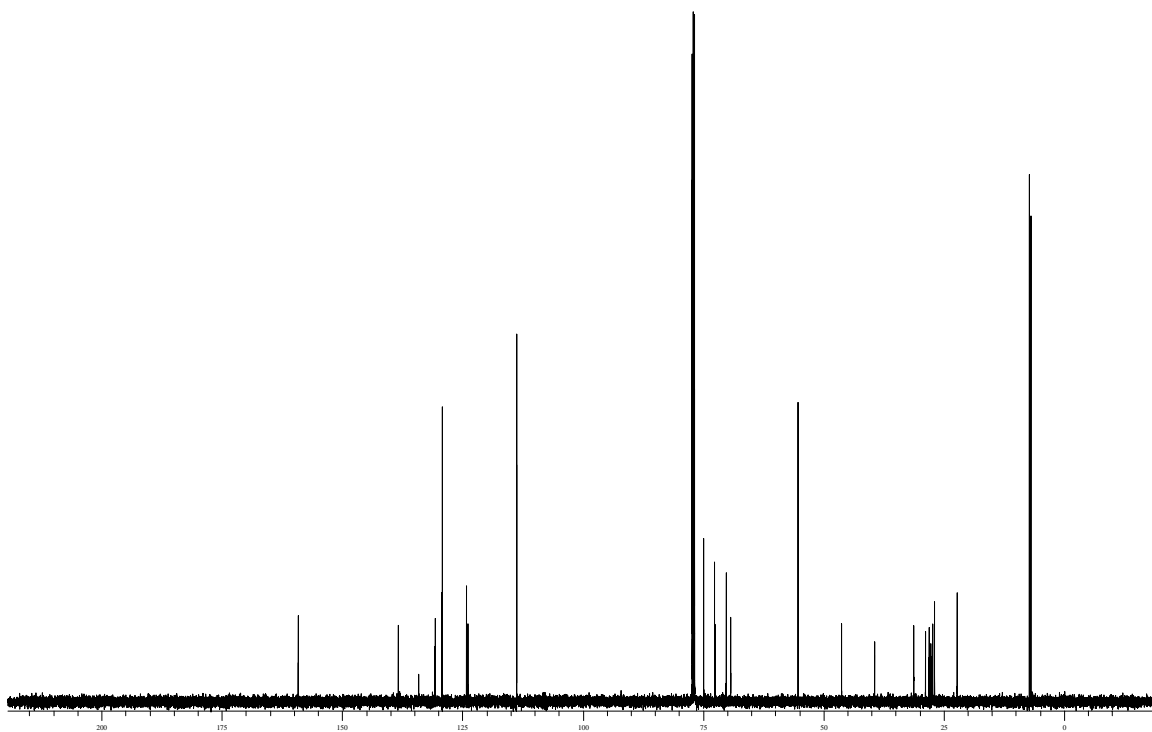
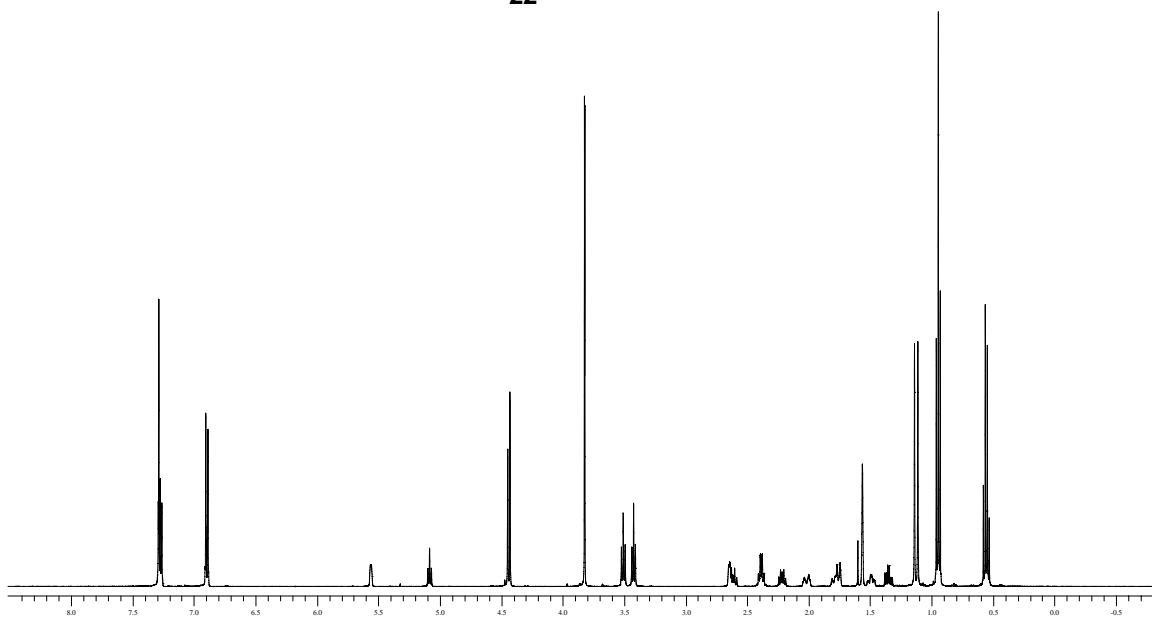
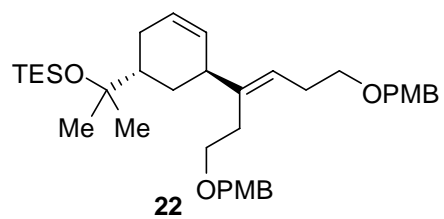
^1H NMR (400 MHz) and ^{13}C NMR (126 MHz) of compound **14** (CDCl_3)



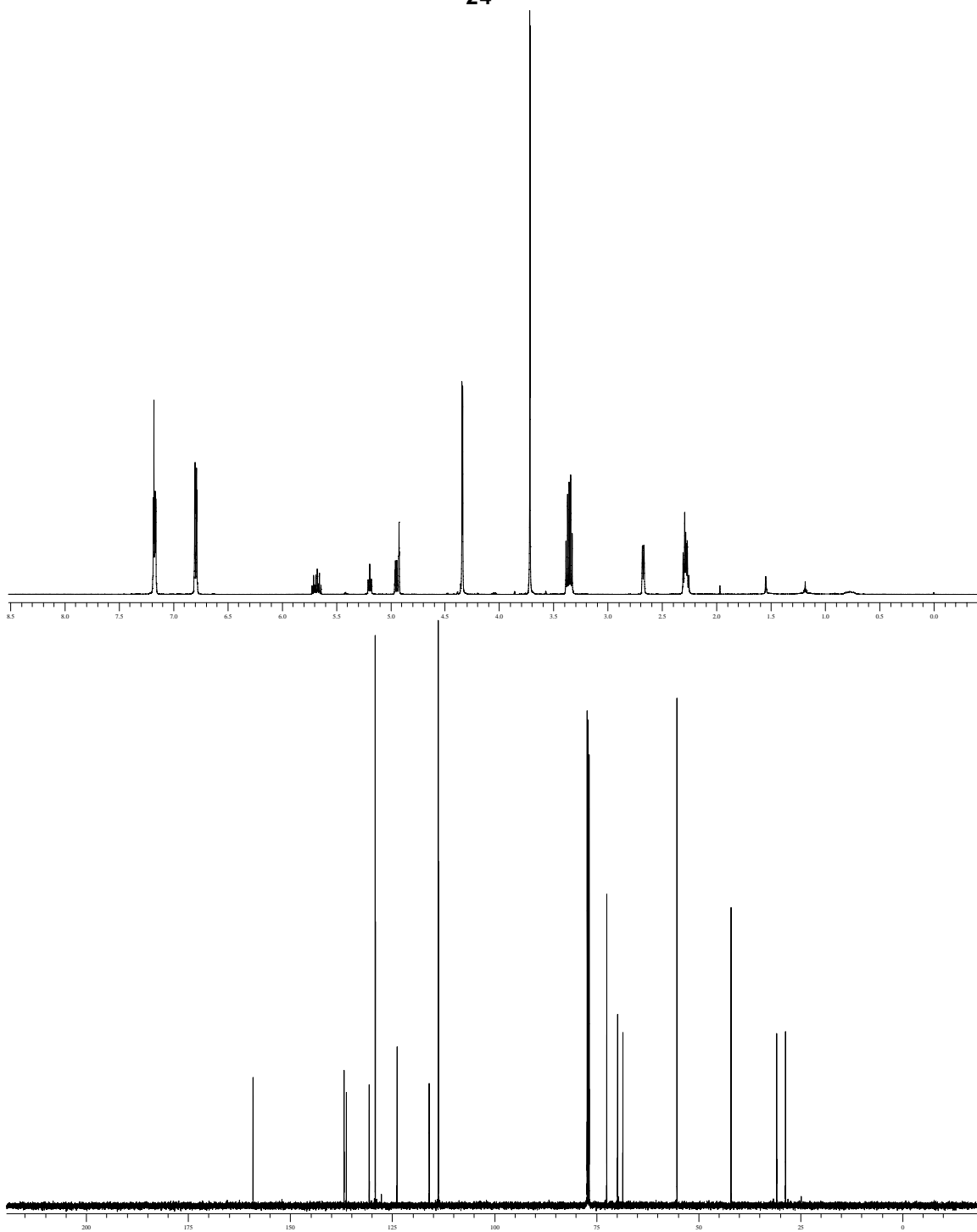
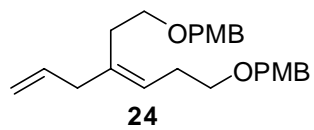
^1H NMR (500 MHz) and ^{13}C NMR (126 MHz) of compound **16** (CDCl_3)



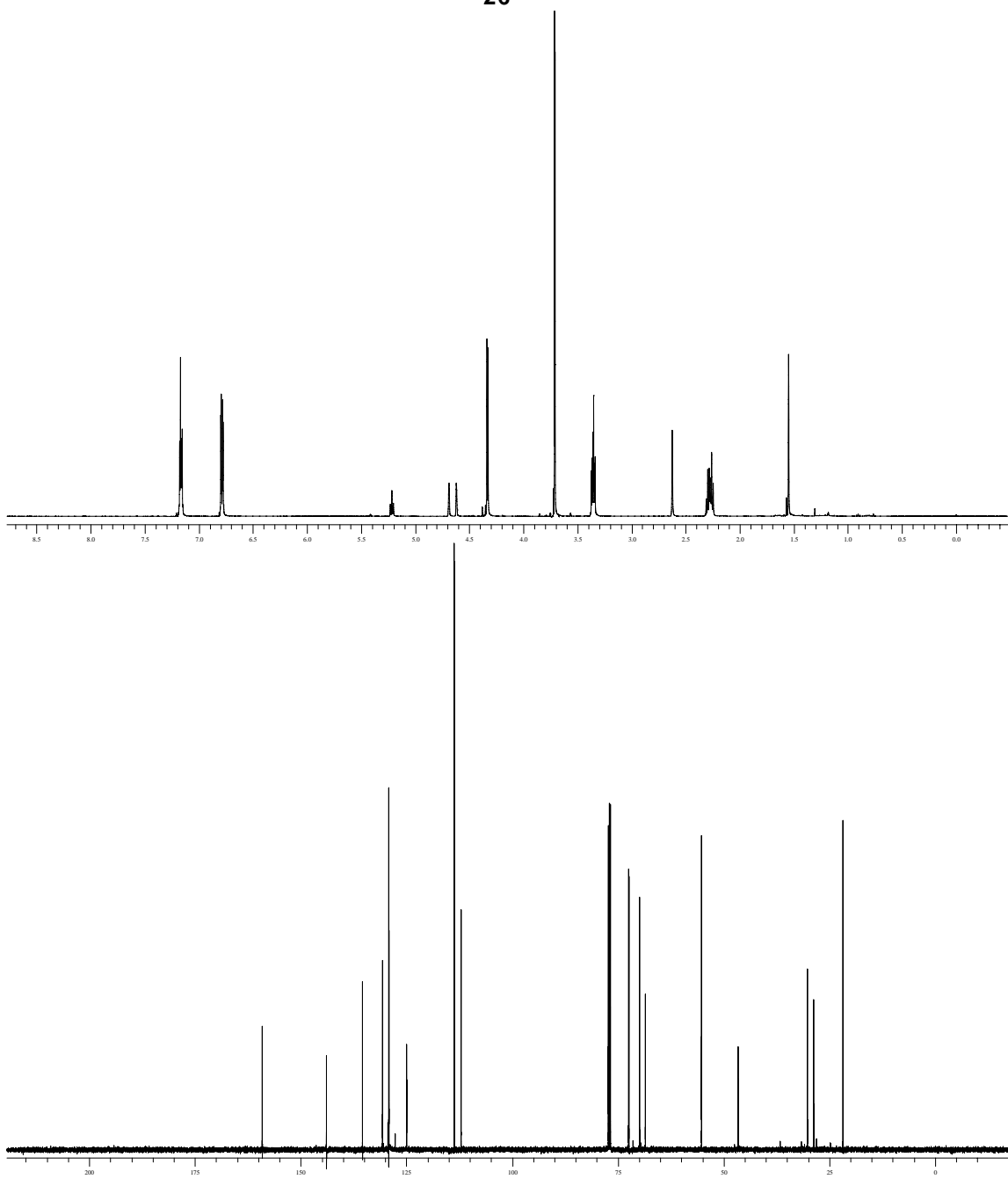
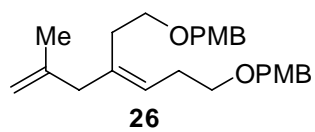
^1H NMR (500 MHz) and ^{13}C NMR (126 MHz) of compound **20** (CDCl_3)



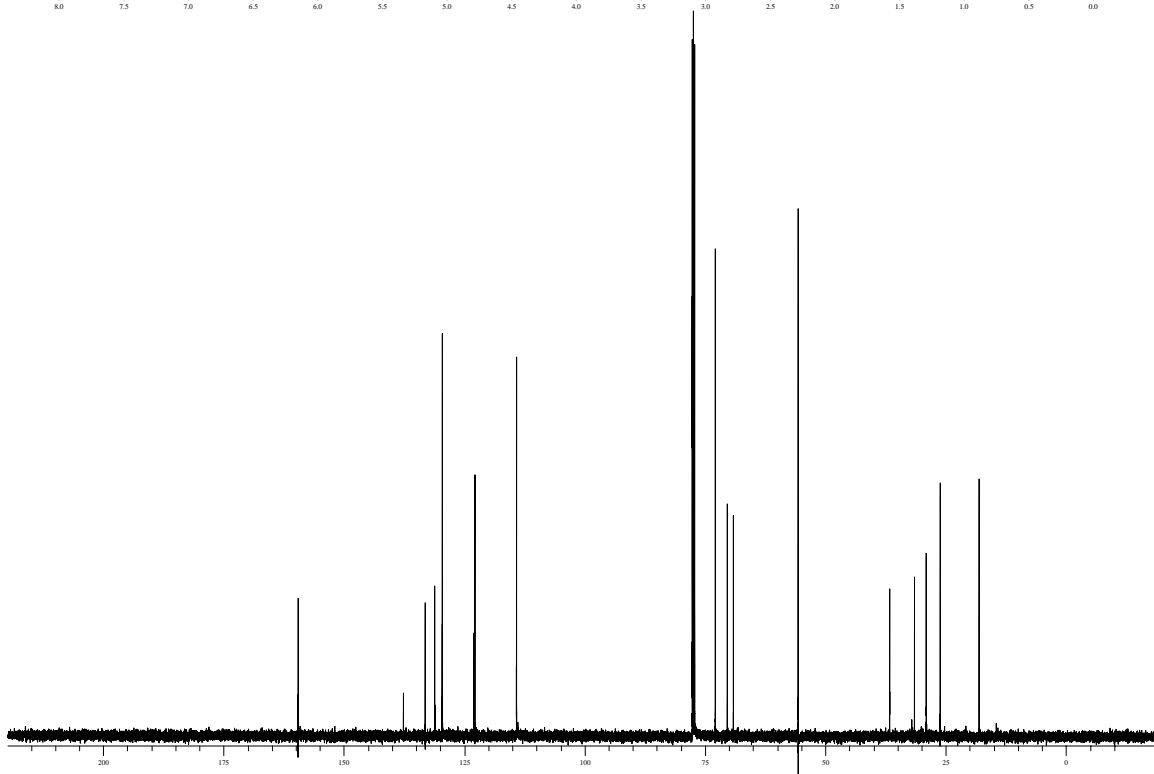
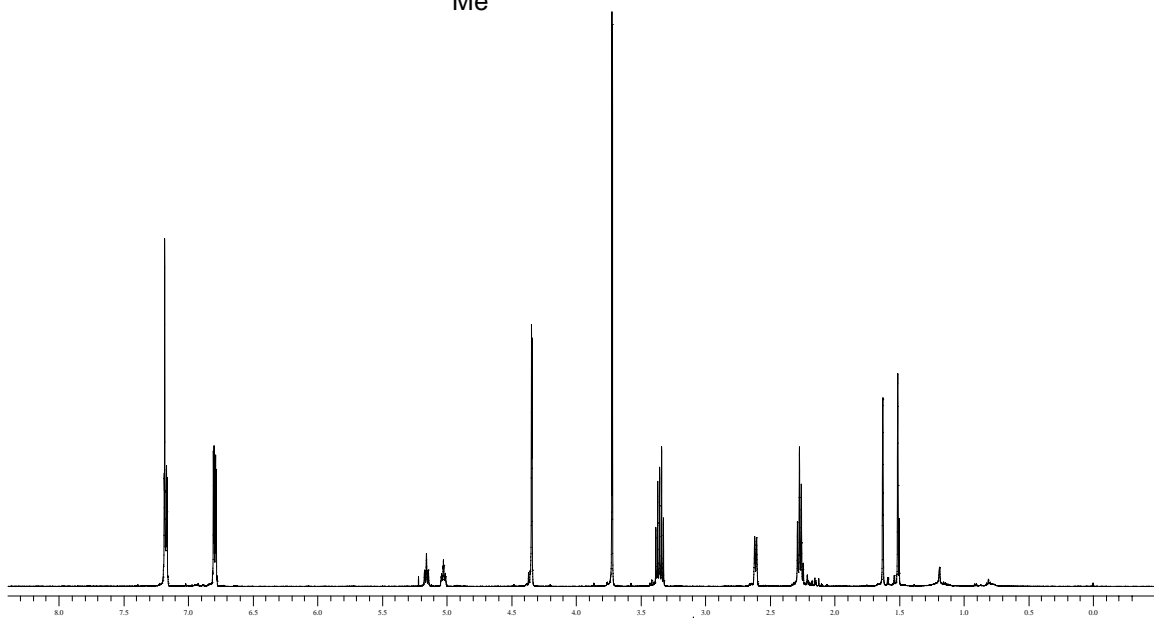
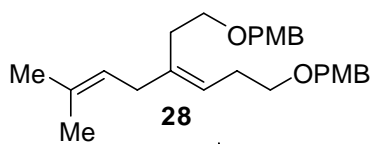
^1H NMR (500 MHz) and ^{13}C NMR (126 MHz) of compound **22** (CDCl_3)



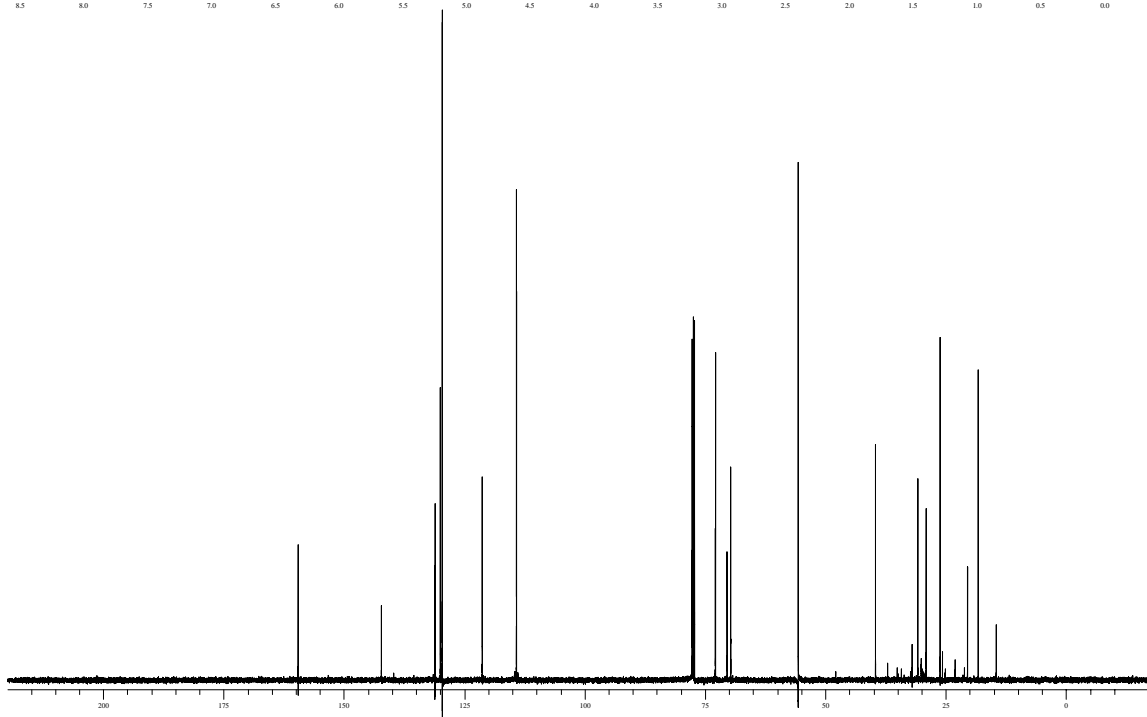
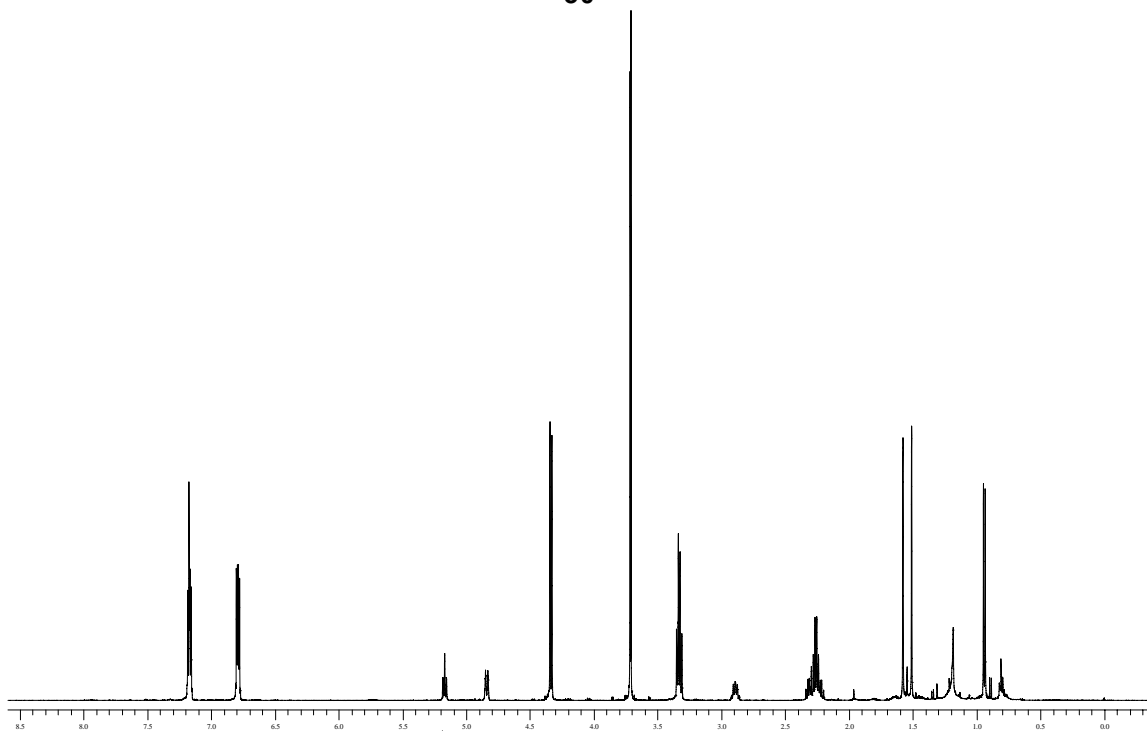
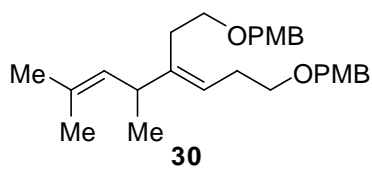
^1H NMR (500 MHz) and ^{13}C NMR (126 MHz) of compound **24** (CDCl_3)



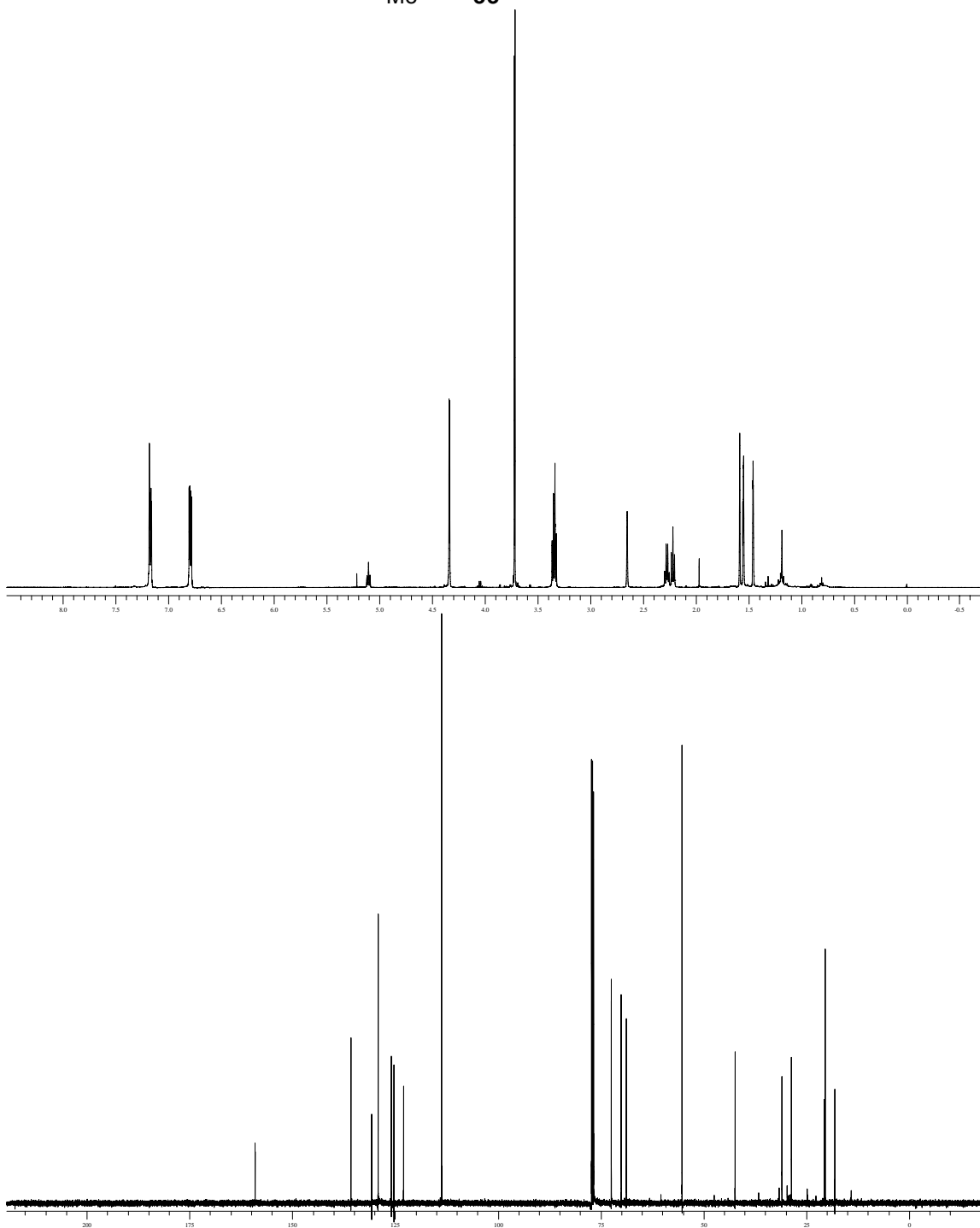
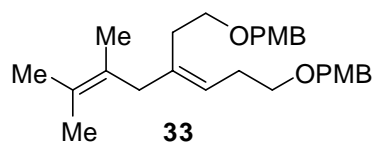
^1H NMR (500 MHz) and ^{13}C NMR (126 MHz) of compound **26** (CDCl_3)



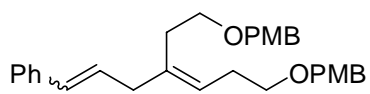
^1H NMR (400 MHz) and ^{13}C NMR (100 MHz) of compound **28** (CDCl_3)



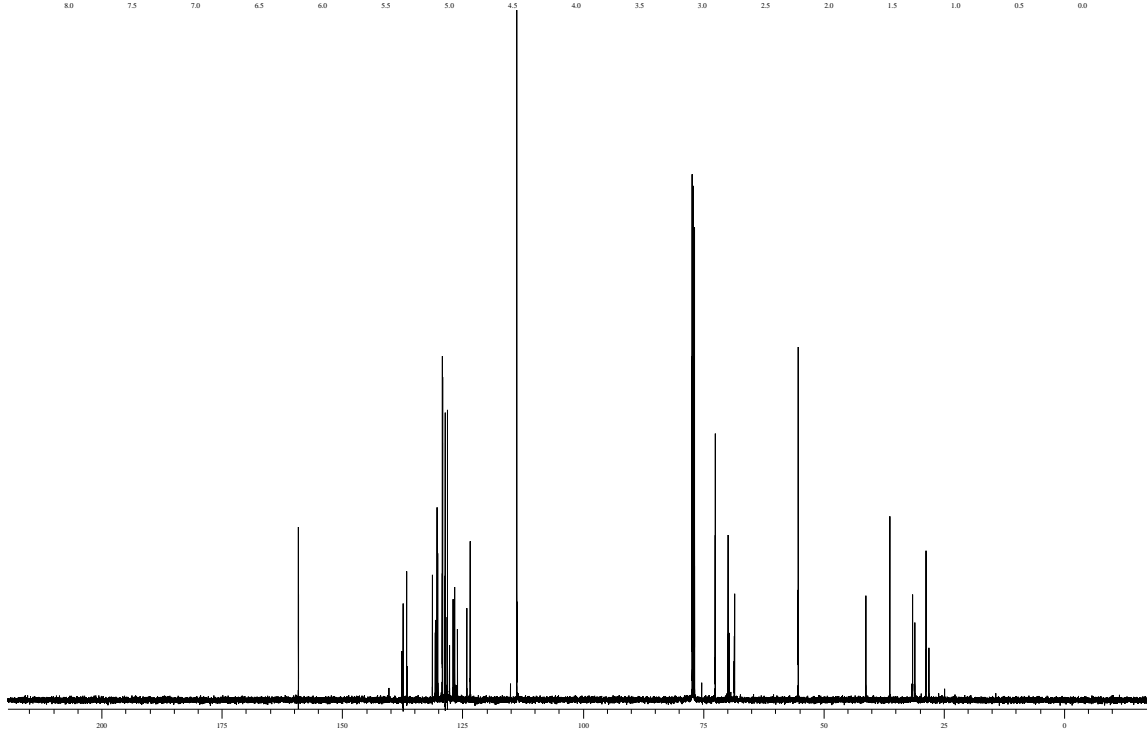
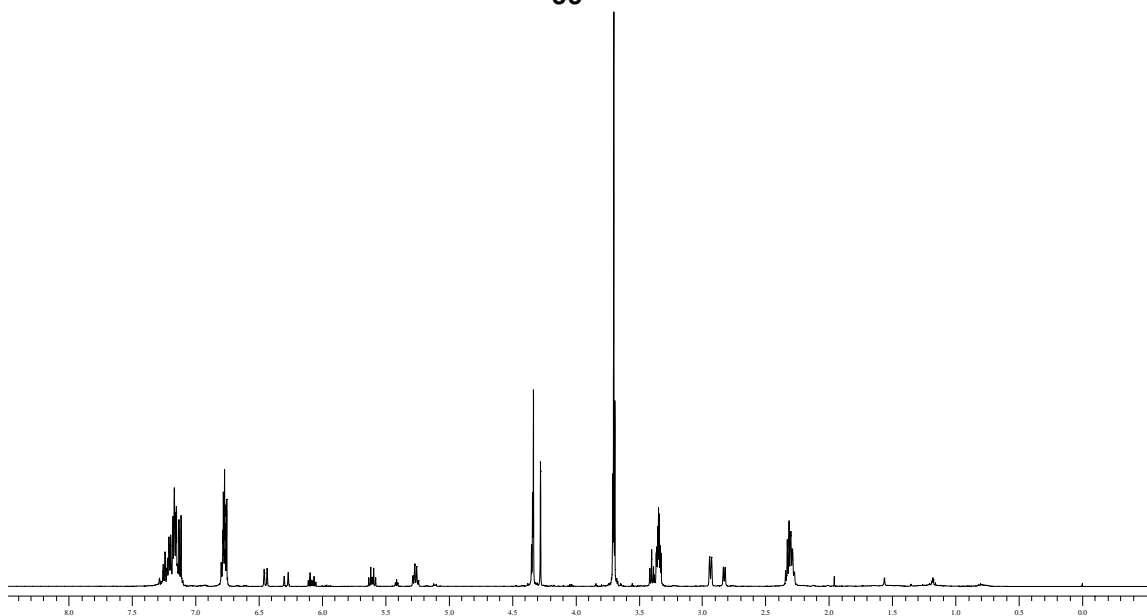
¹H NMR (500 MHz) and ¹³C NMR (126 MHz) of compound **30** (CDCl₃)



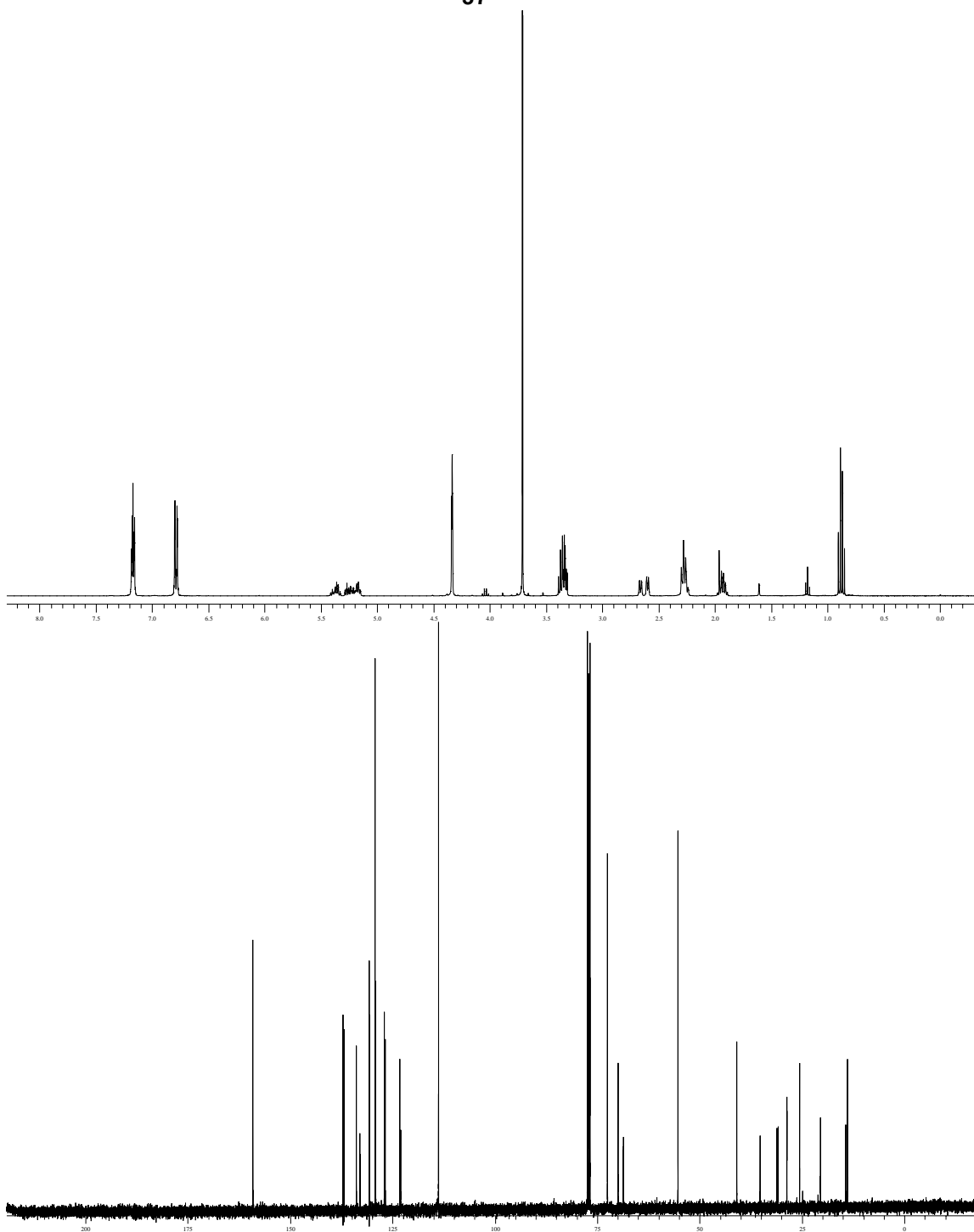
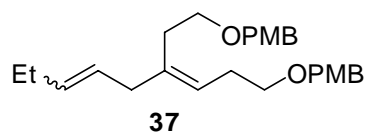
^1H NMR (500 MHz) and ^{13}C NMR (126 MHz) of compound **33** (CDCl_3)



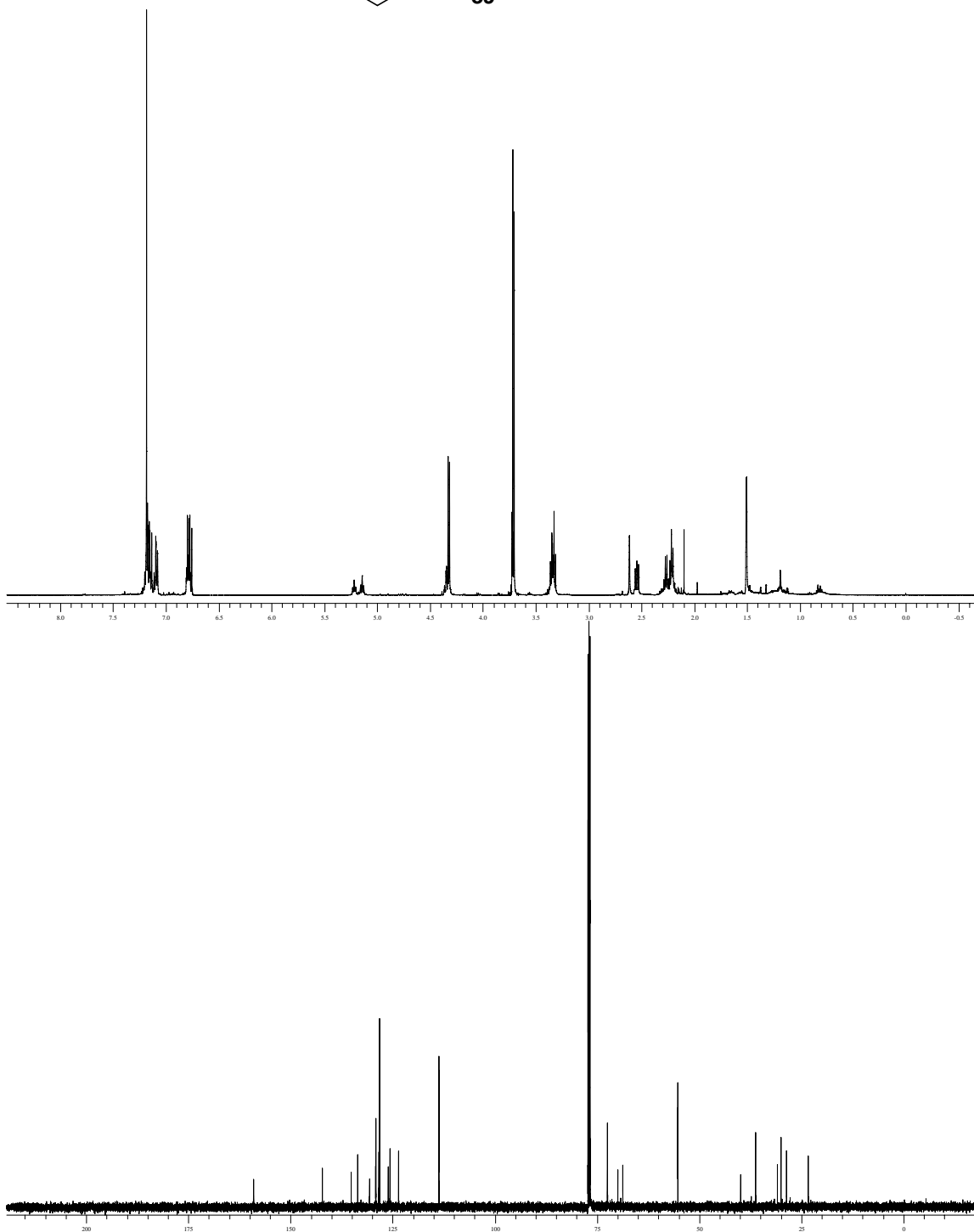
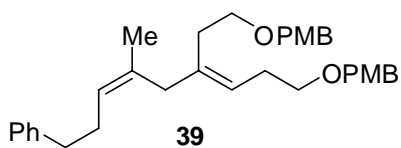
35



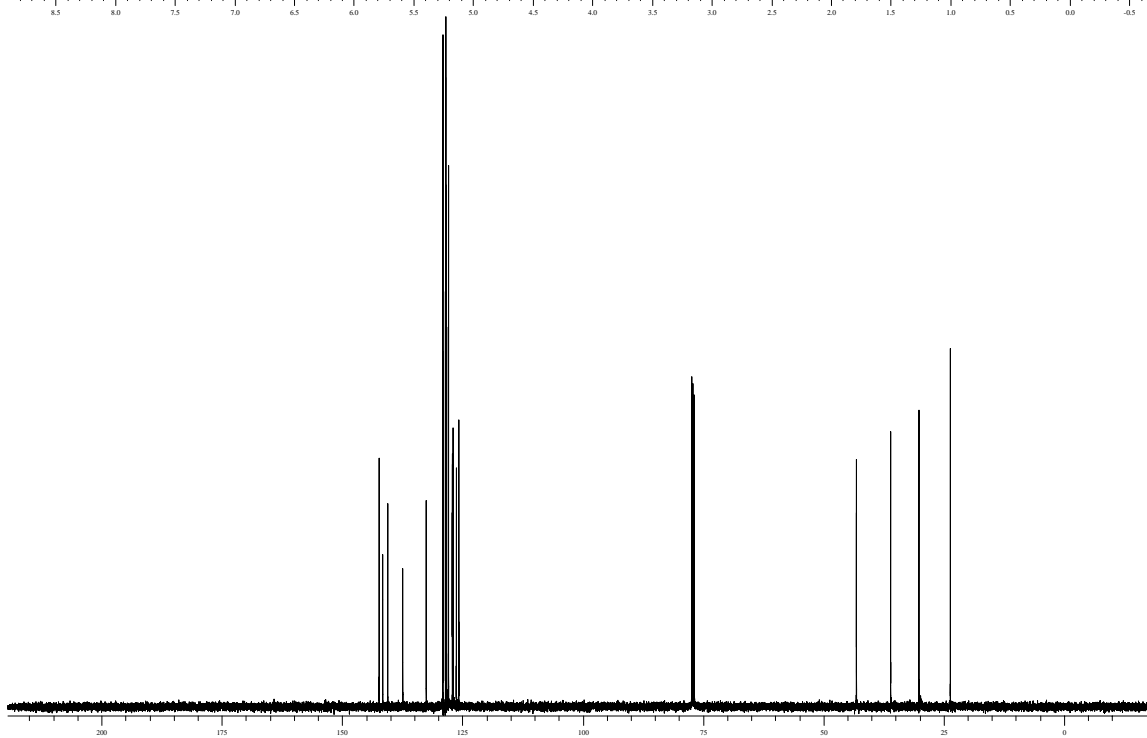
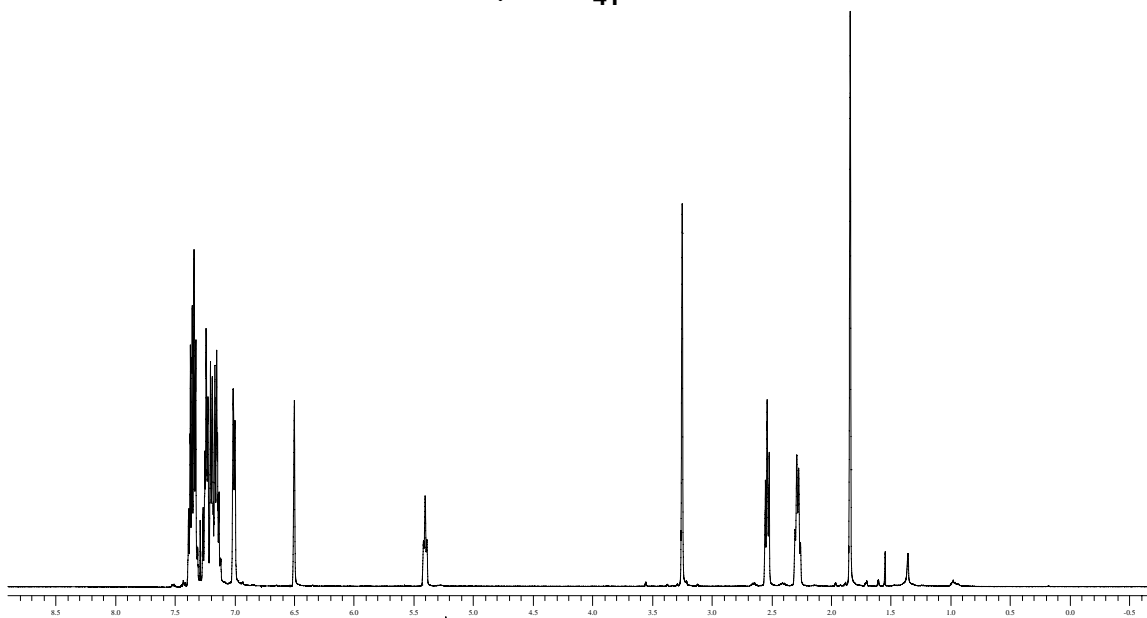
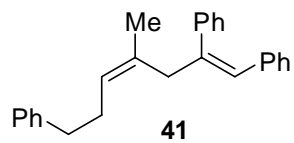
^1H NMR (500 MHz) and ^{13}C NMR (126 MHz) of compound **35** (CDCl_3)



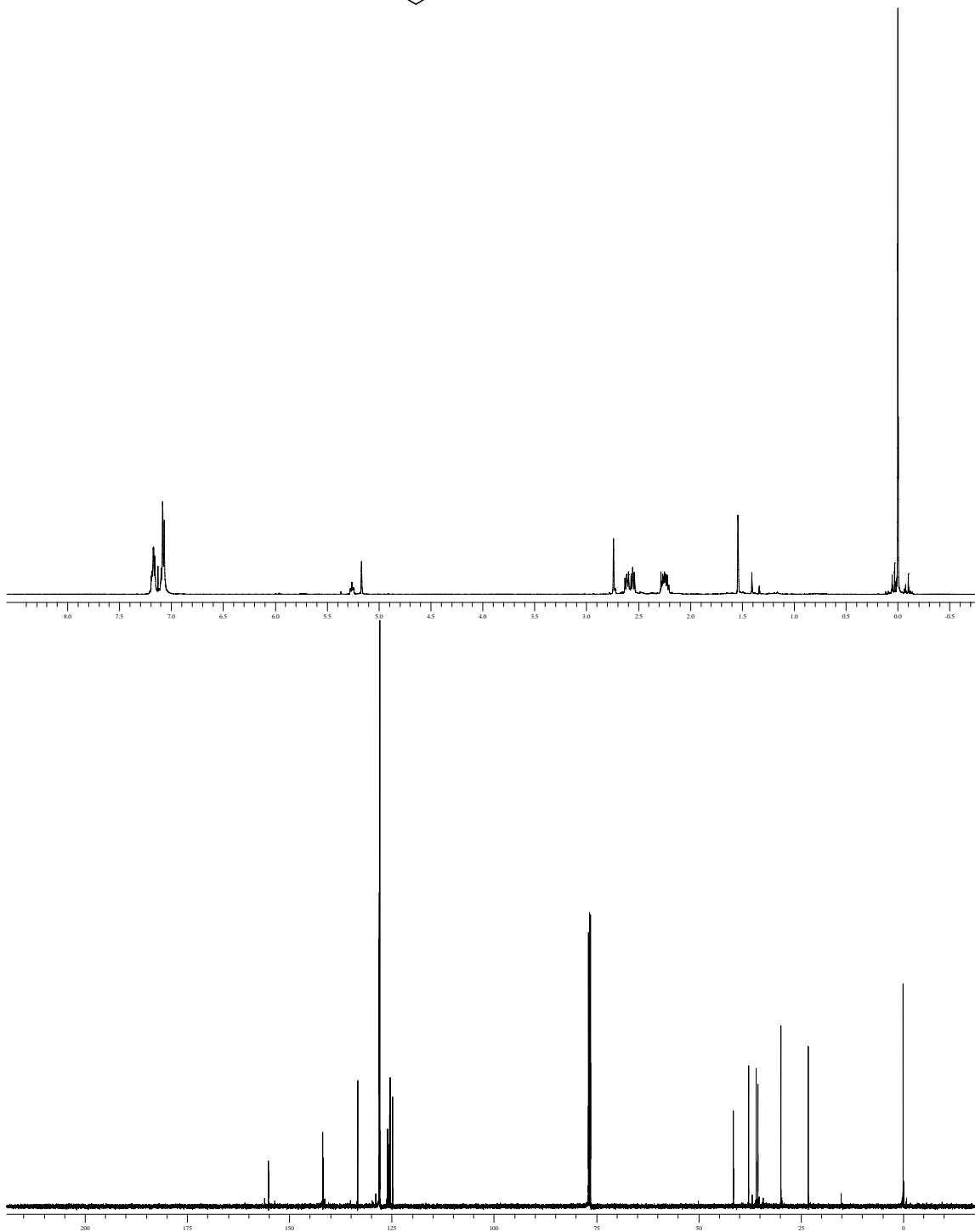
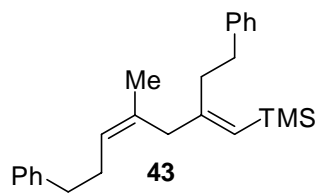
^1H NMR (400 MHz) and ^{13}C NMR (100 MHz) of compound **37** (CDCl_3)



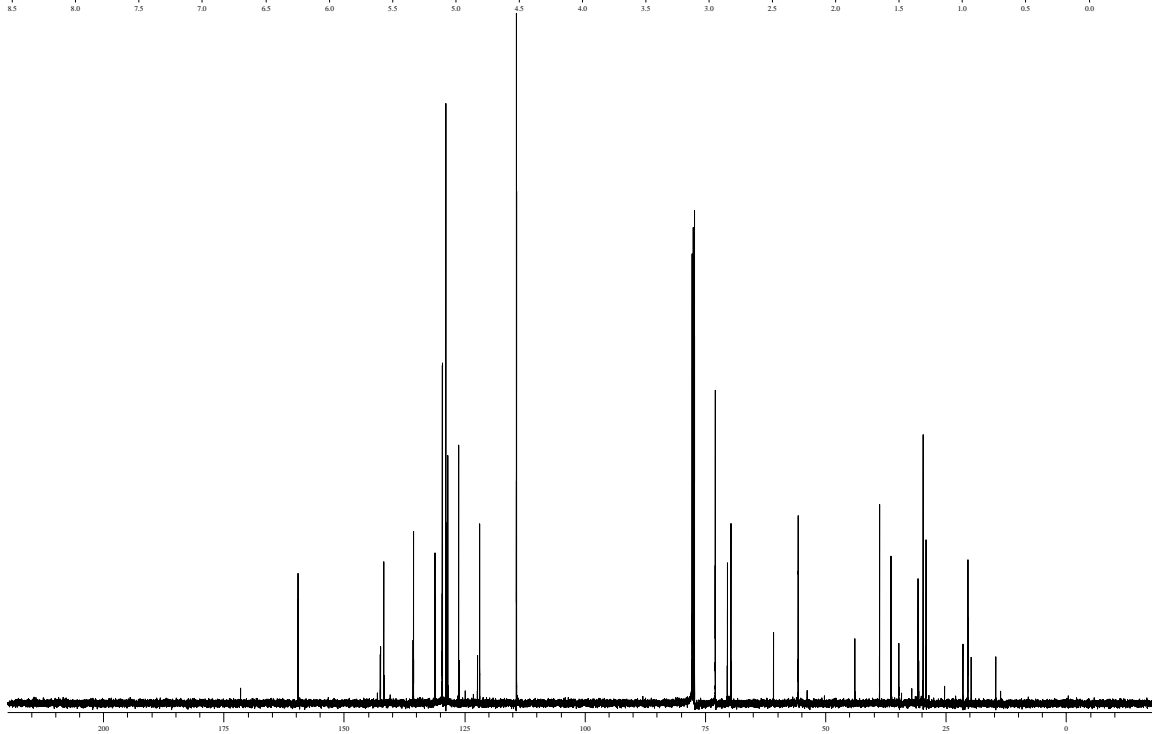
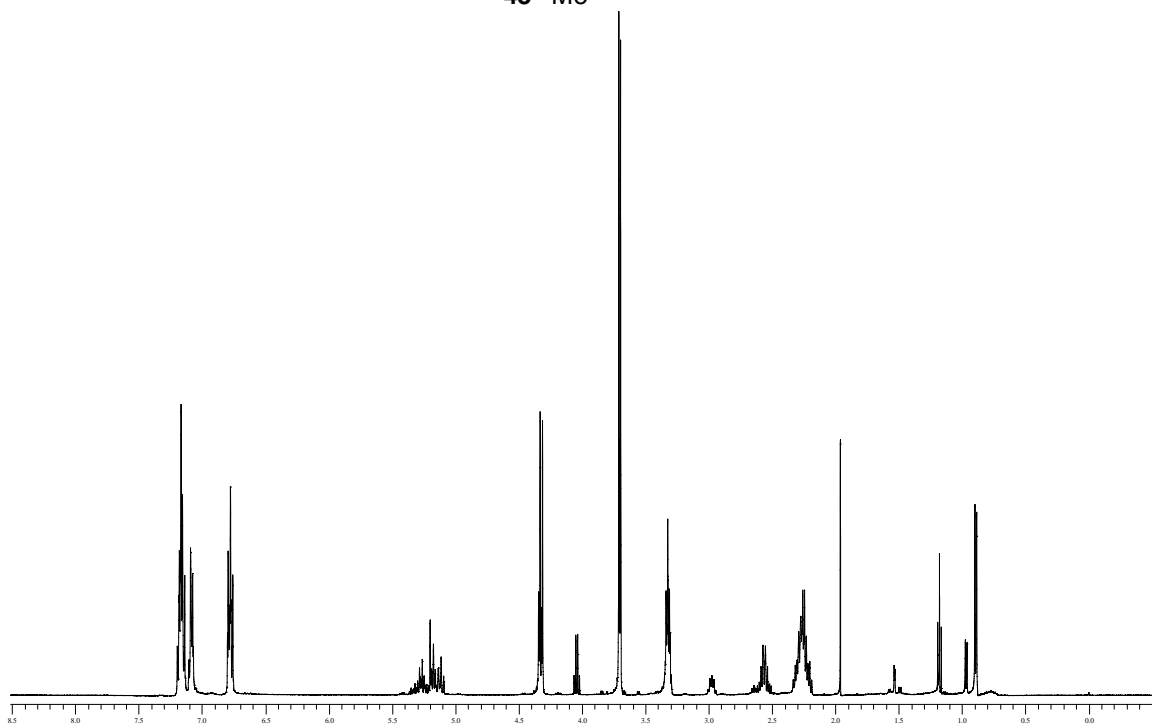
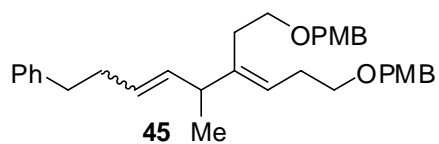
¹H NMR (400 MHz) and ¹³C NMR (100 MHz) of compound **39** (CDCl₃)



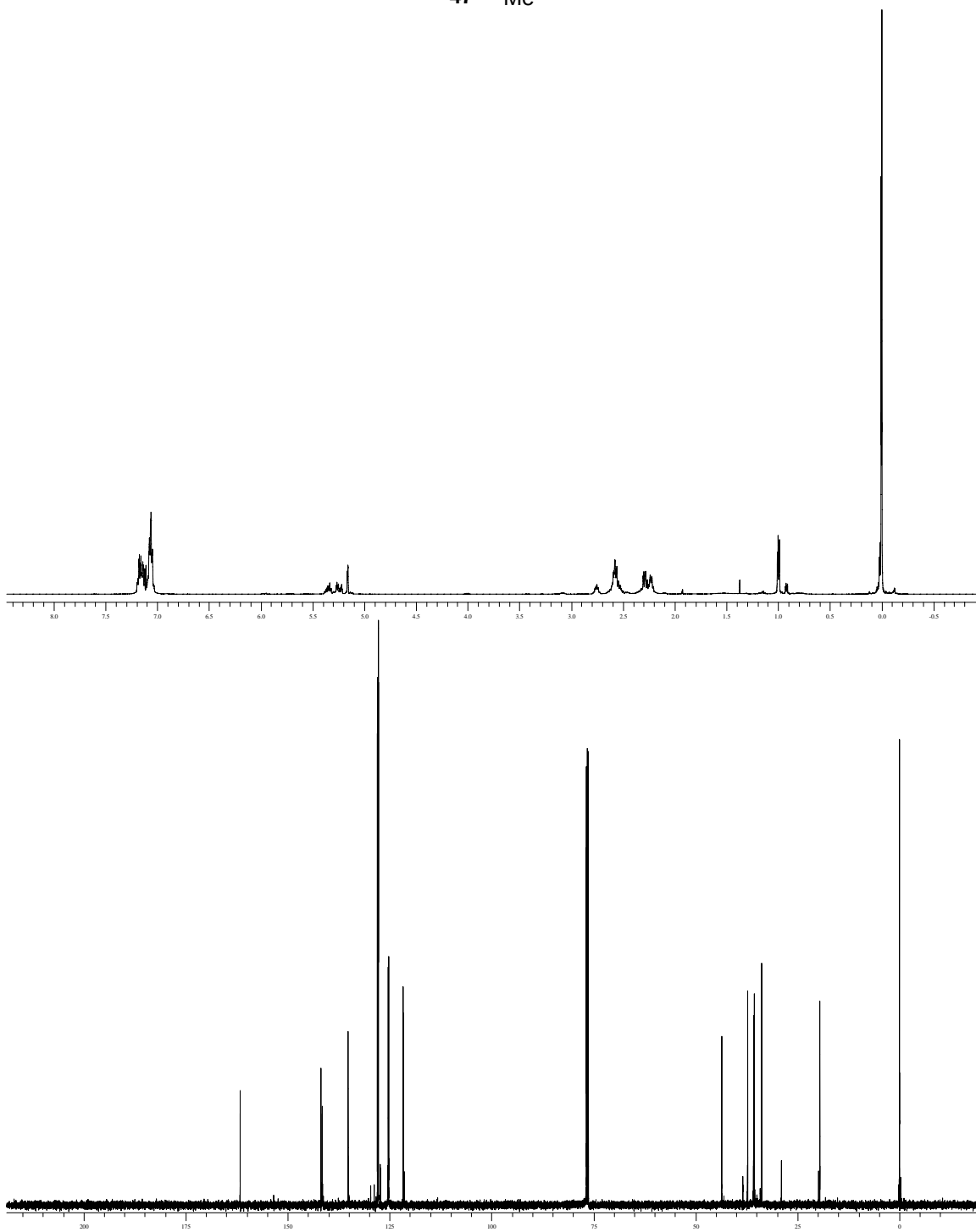
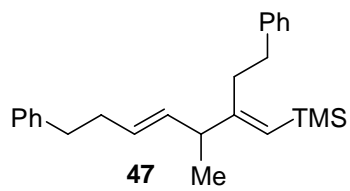
^1H NMR (500 MHz) and ^{13}C NMR (126 MHz) of compound **41** (CDCl_3)



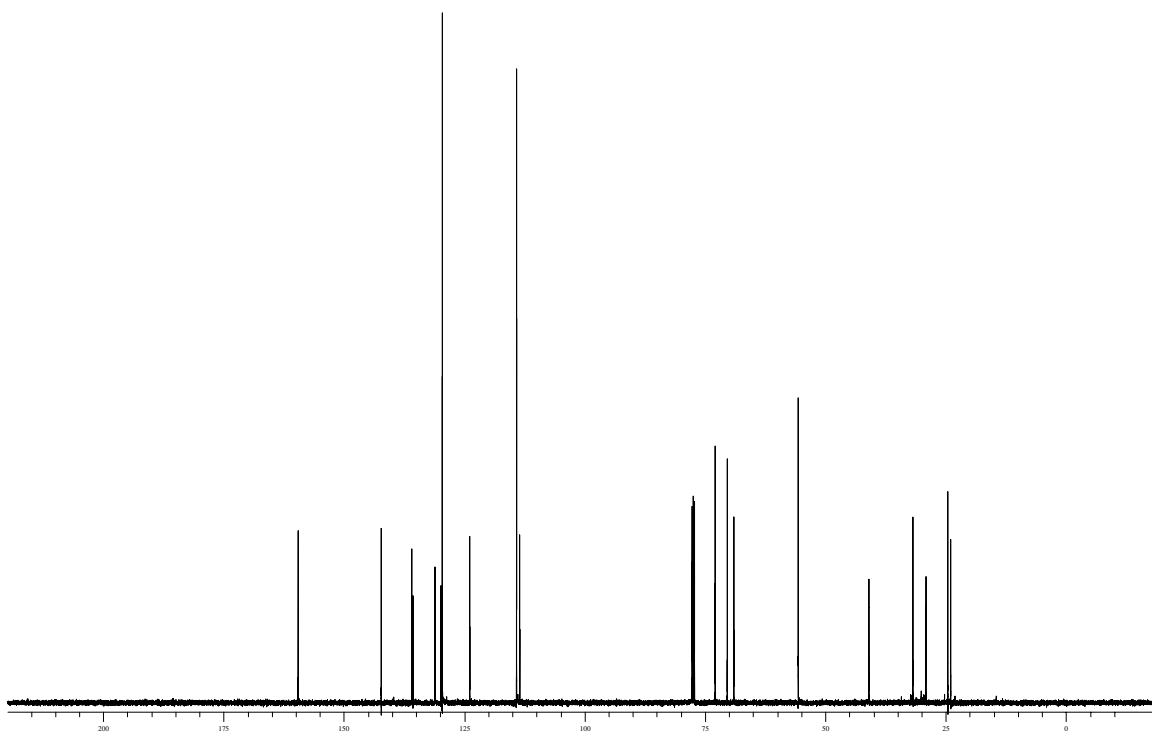
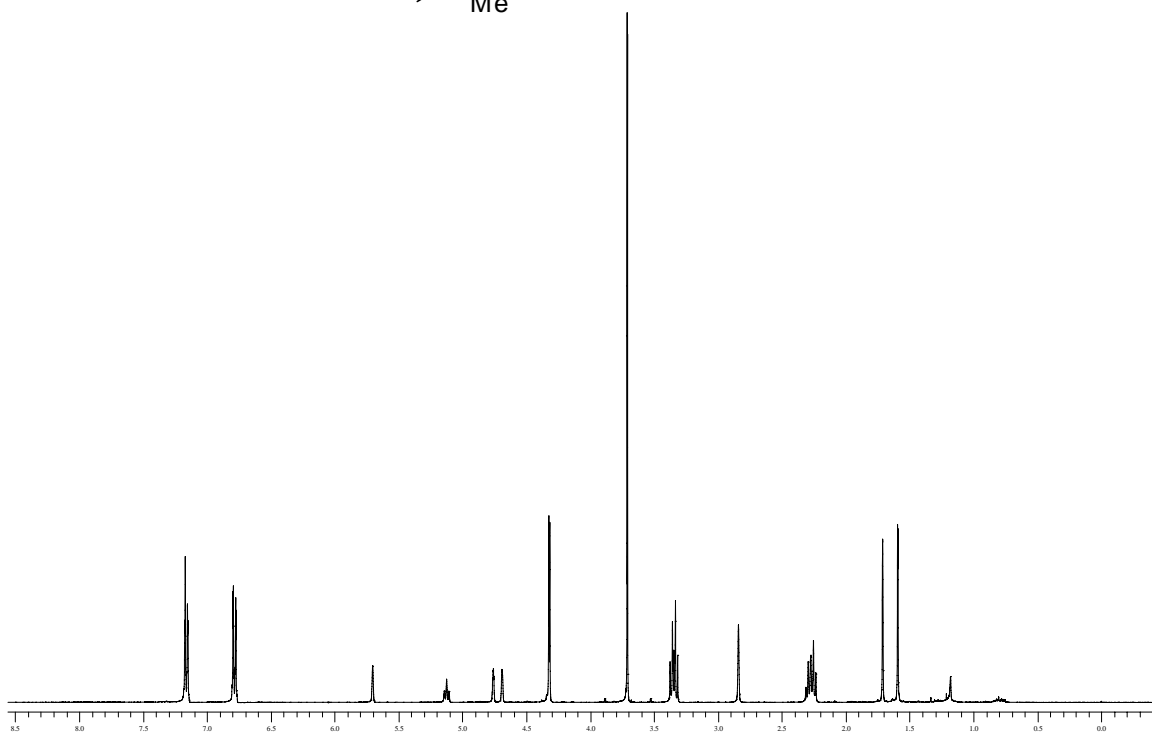
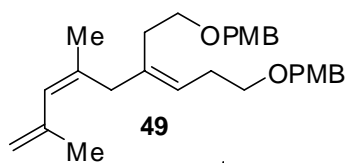
^1H NMR (500 MHz) and ^{13}C NMR (126 MHz) of compound **43** (CDCl_3)



¹H NMR (500 MHz) and ¹³C NMR (126 MHz) of compound **45** (CDCl₃)



¹H NMR (400 MHz) and ¹³C NMR (100 MHz) of compound **47** (CDCl₃)



¹H NMR (400 MHz) and ¹³C NMR (100 MHz) of compound **49** (CDCl₃)