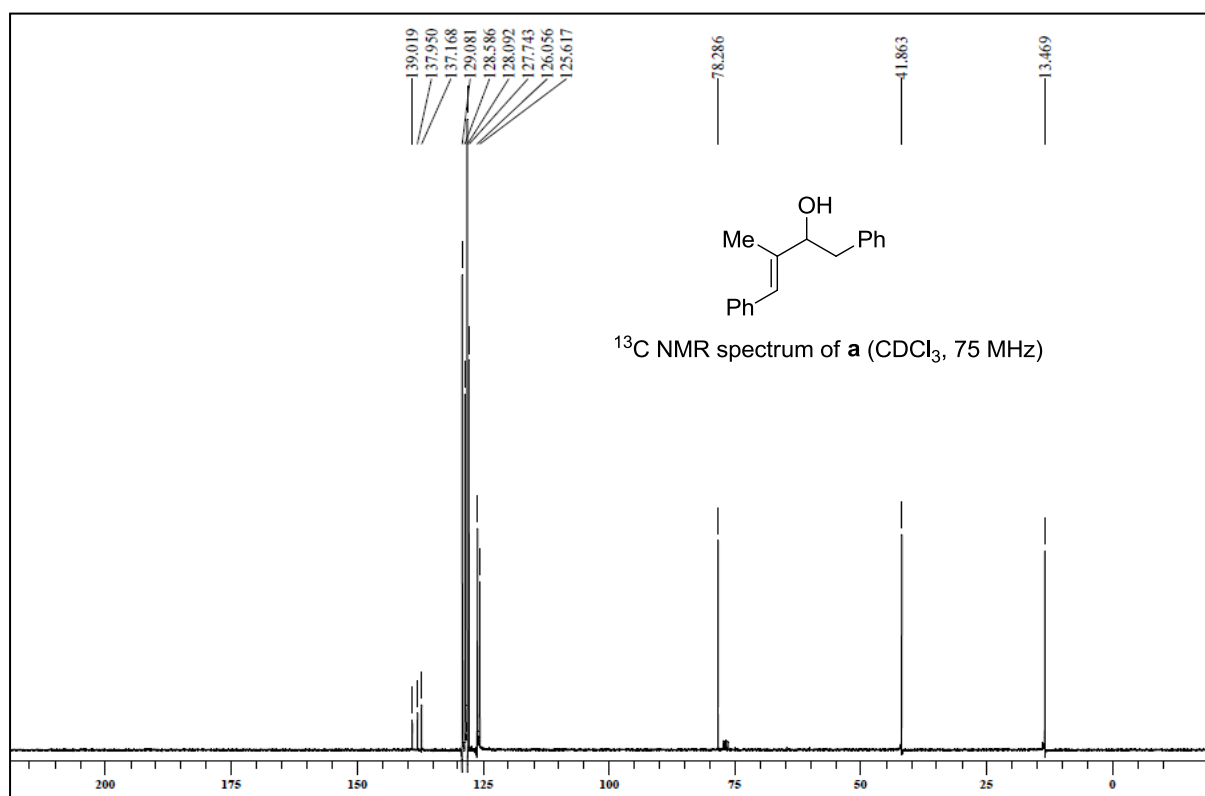
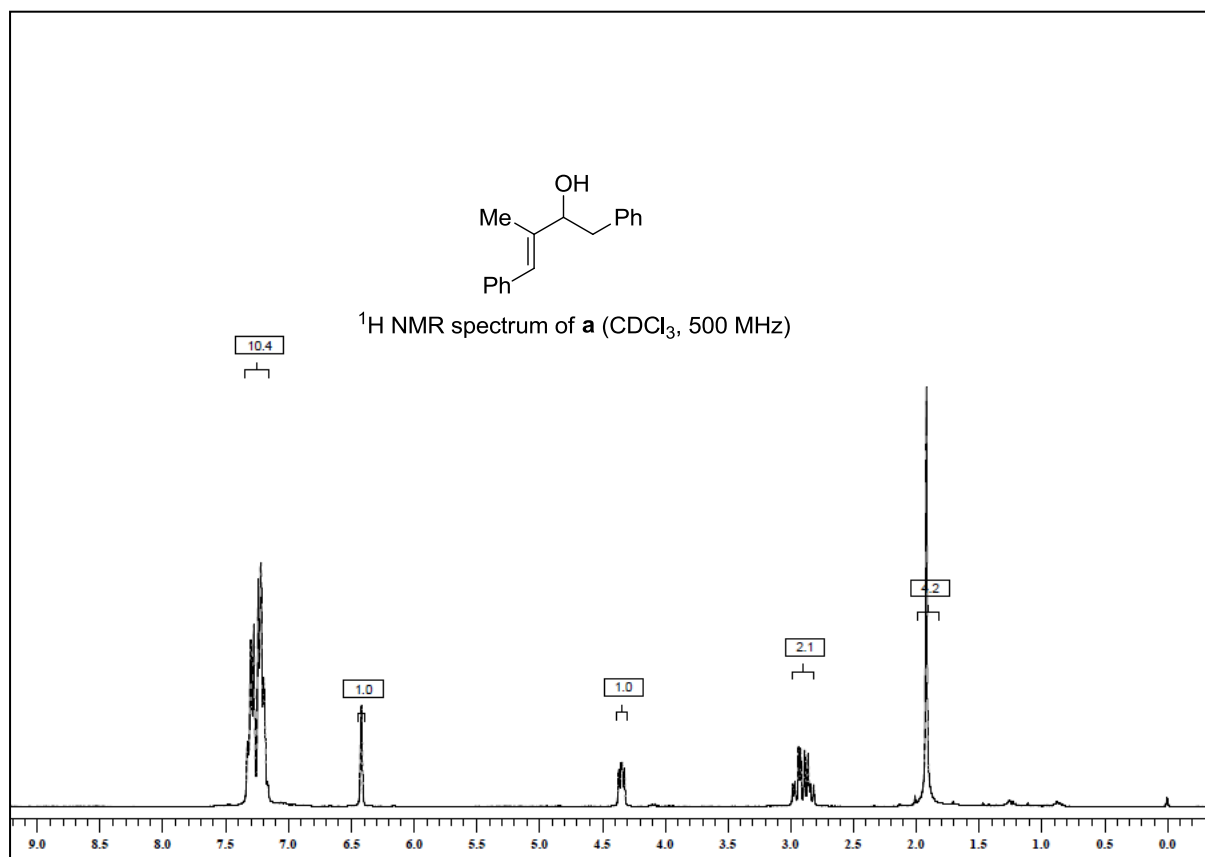
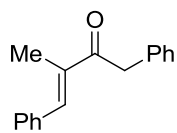
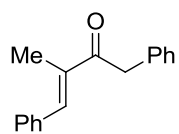
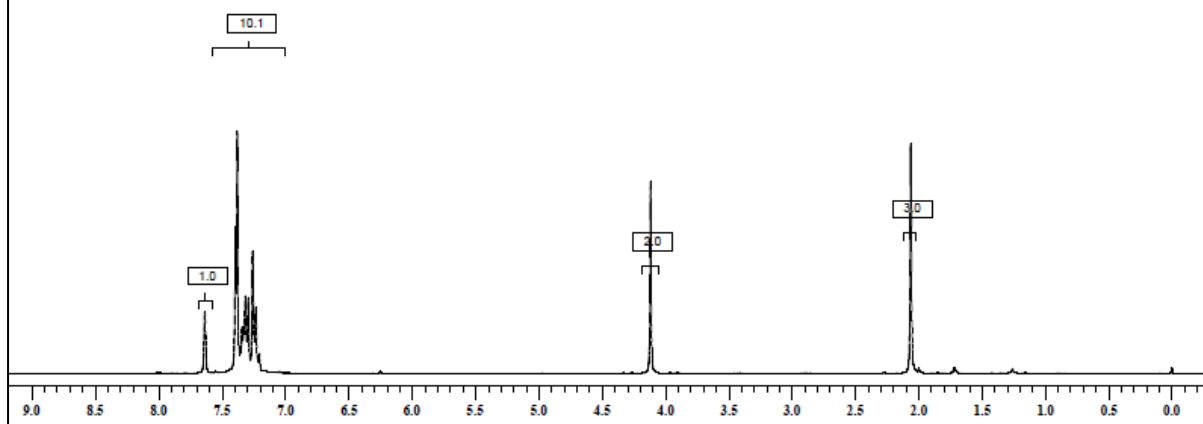


## 5. Copies of NMR spectra of new compounds

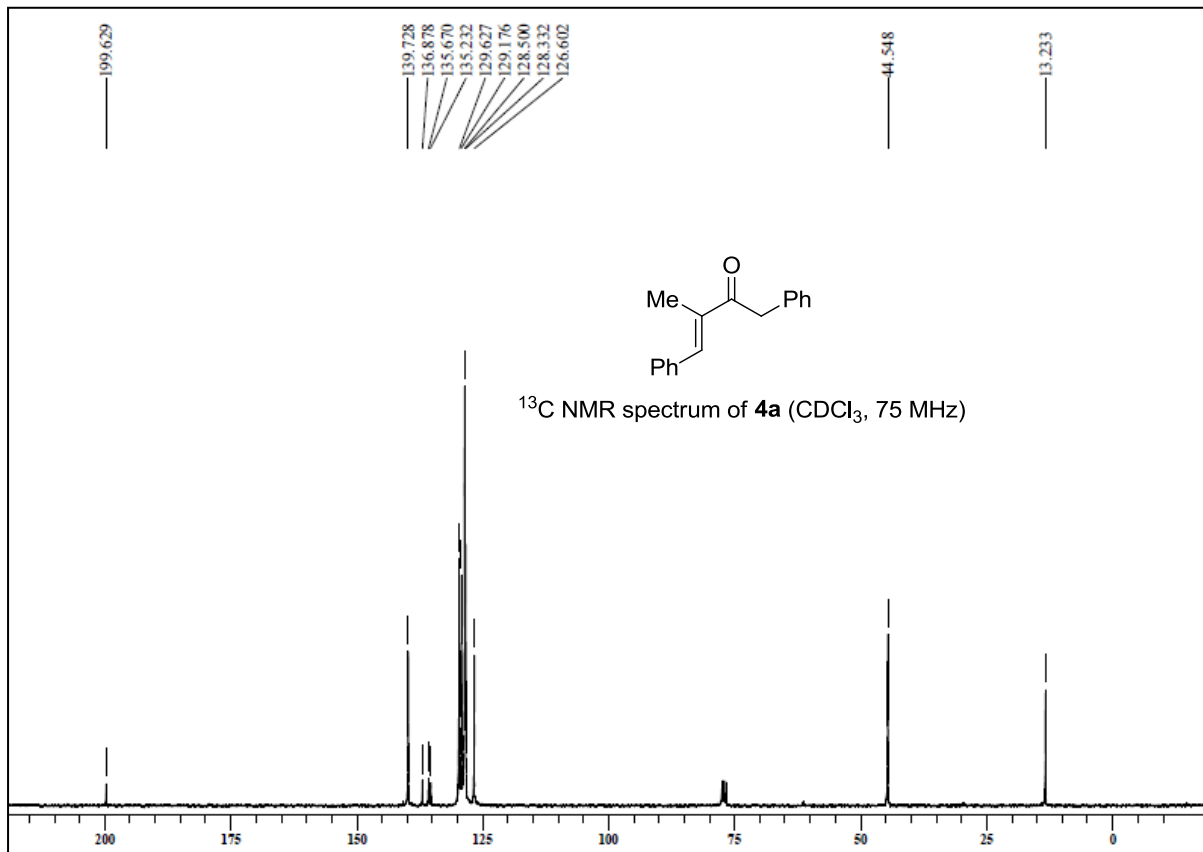


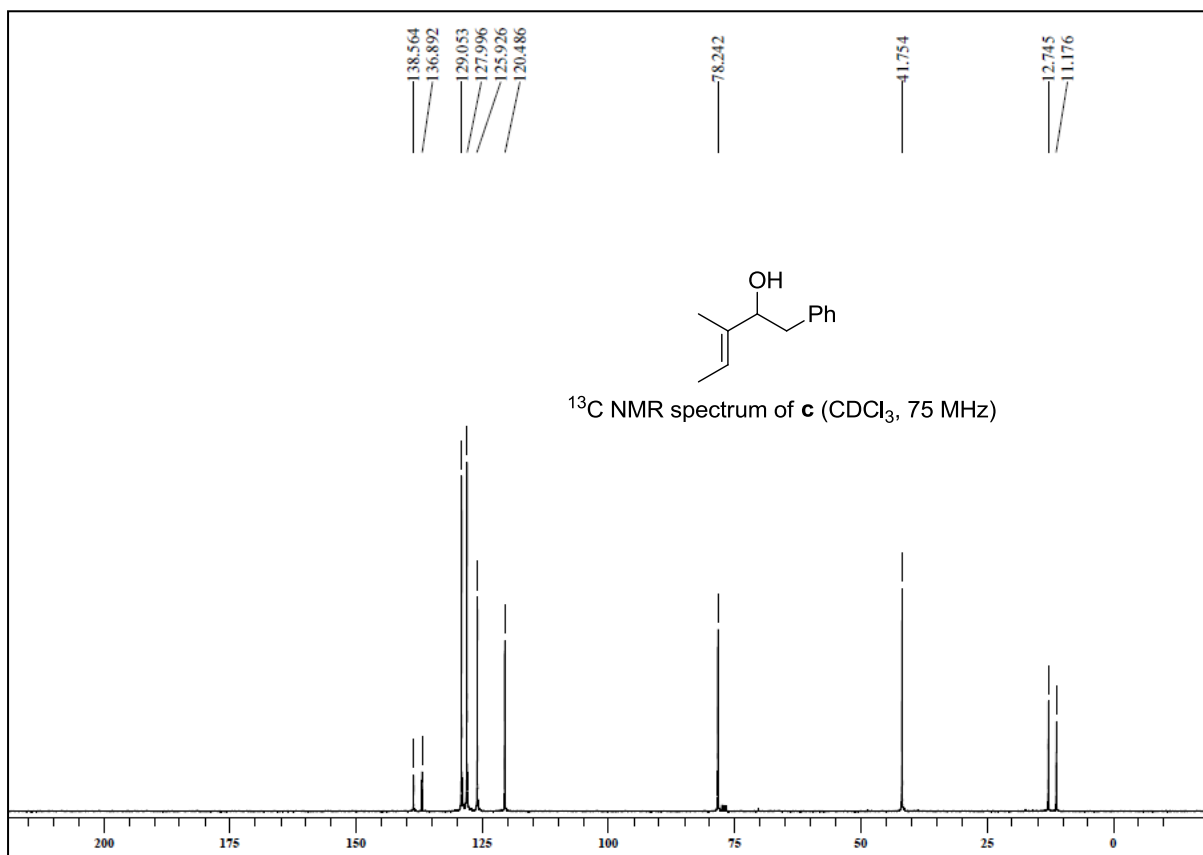
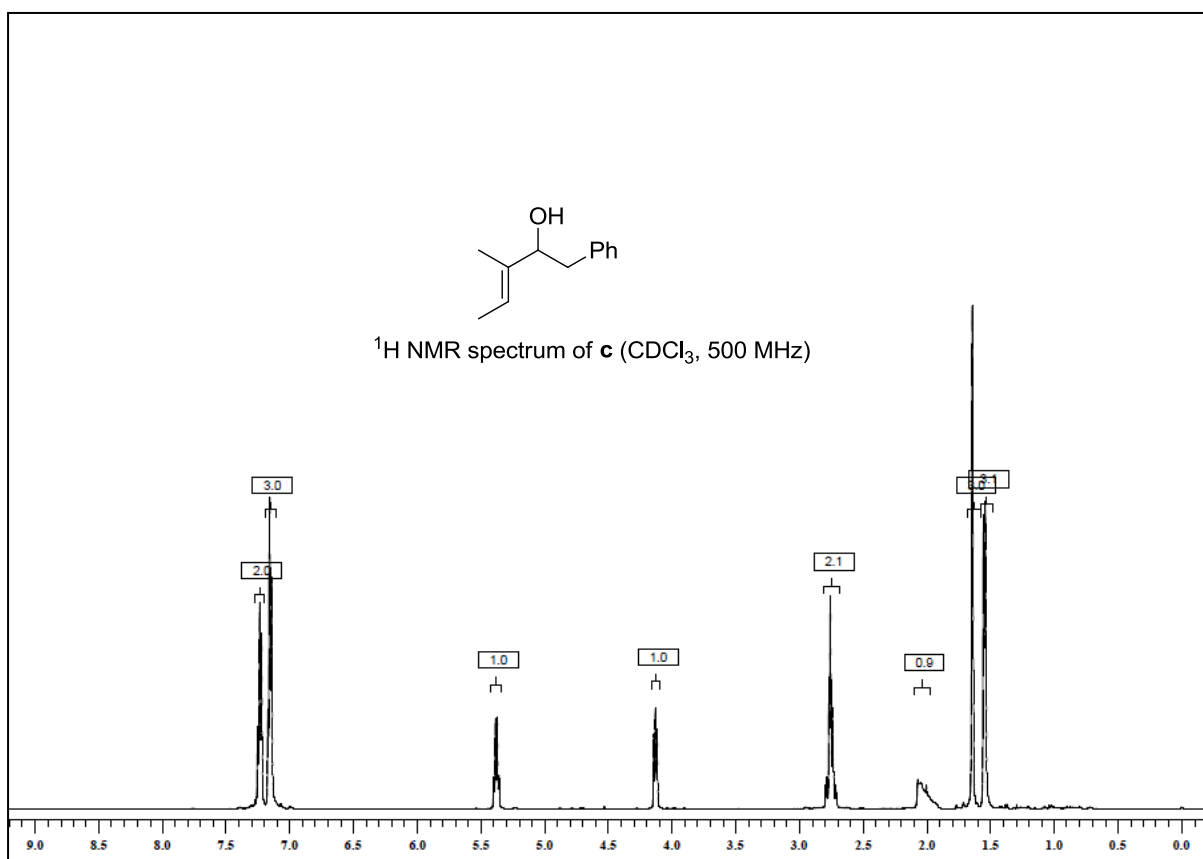


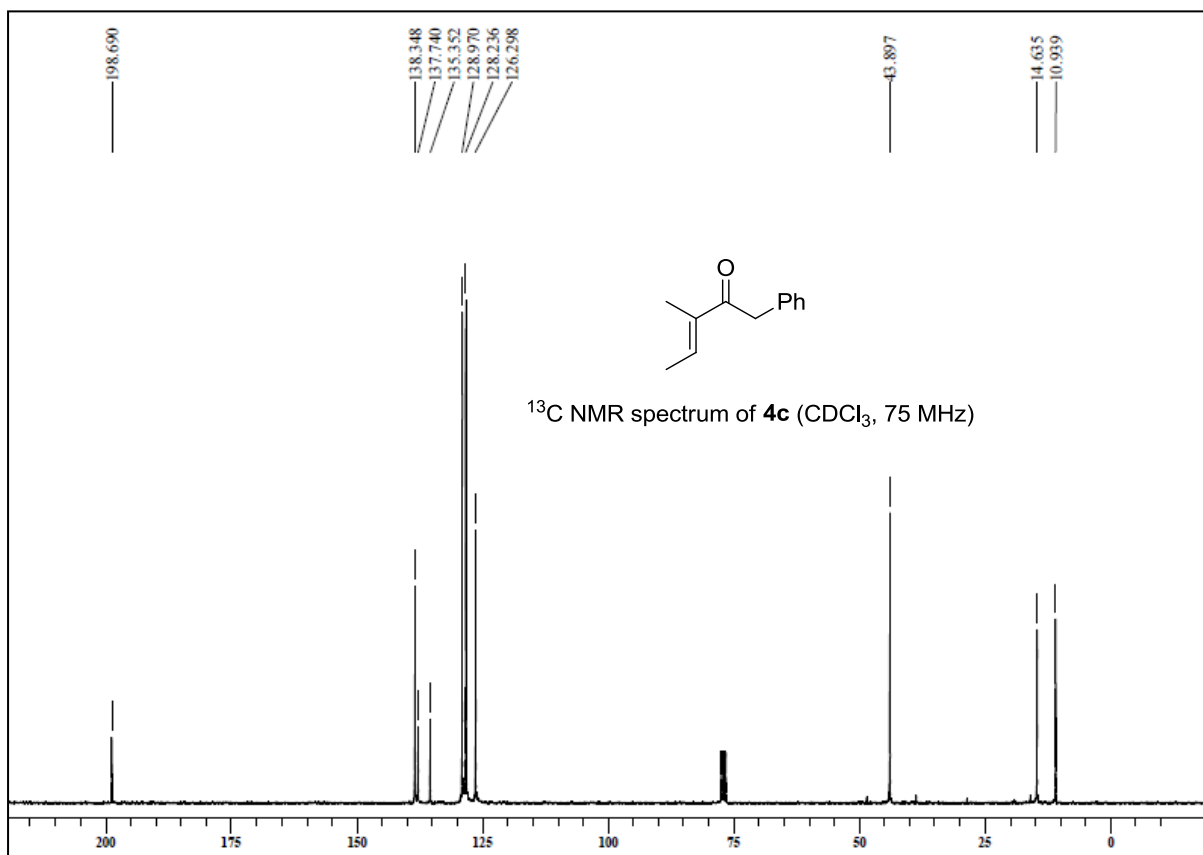
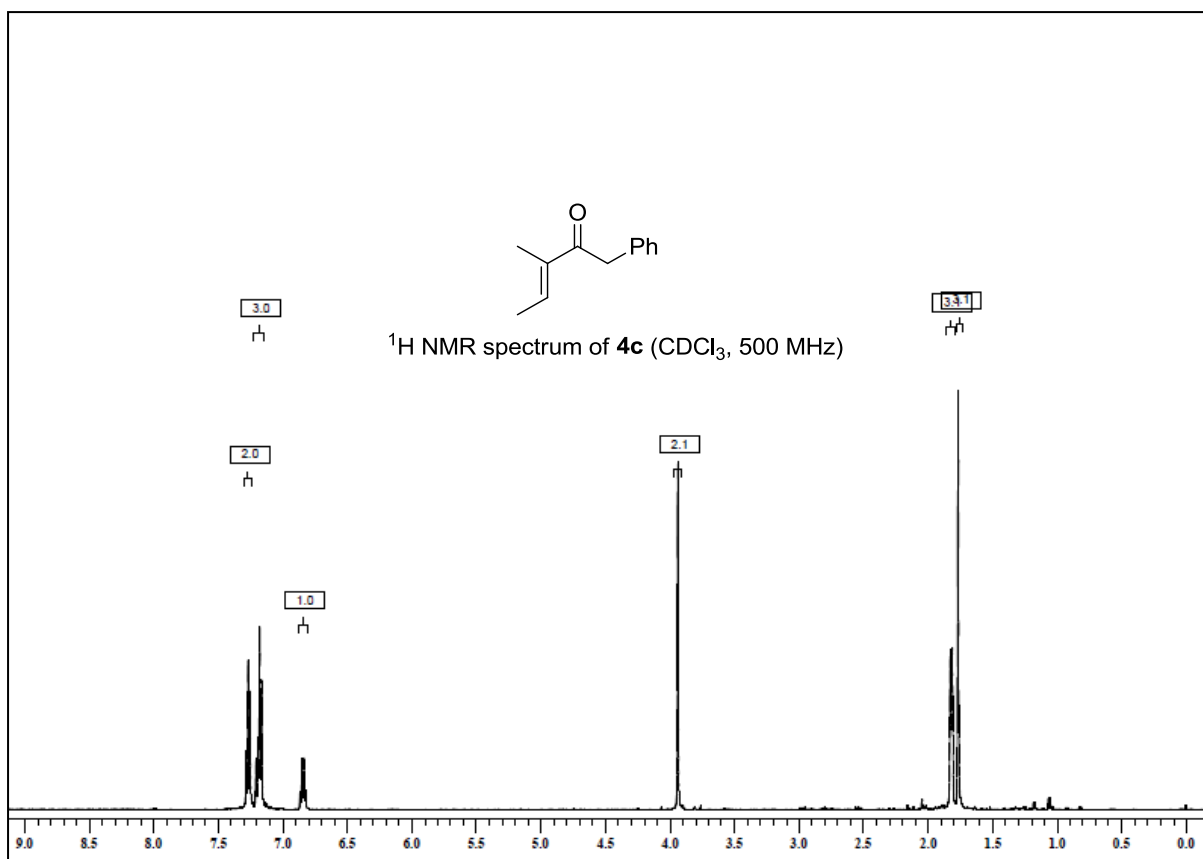
$^1\text{H}$  NMR spectrum of **4a** ( $\text{CDCl}_3$ , 300 MHz)

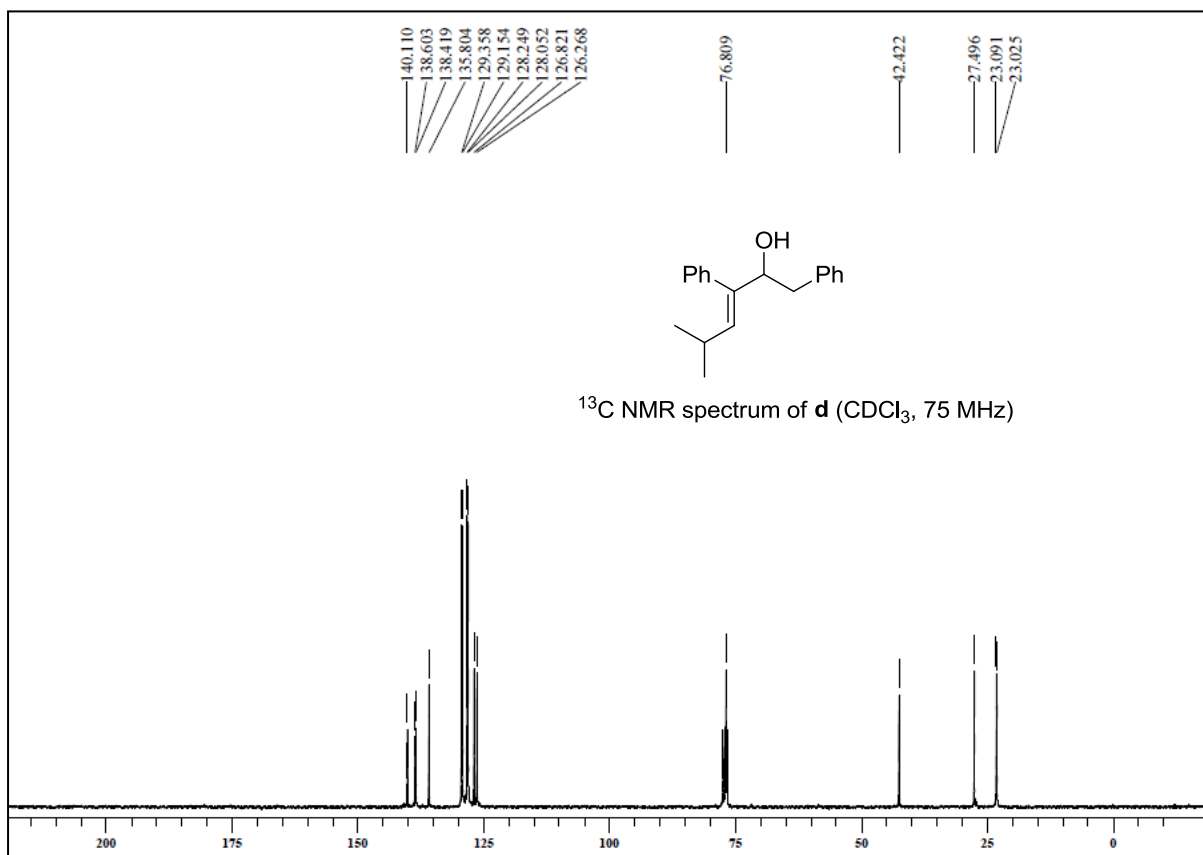
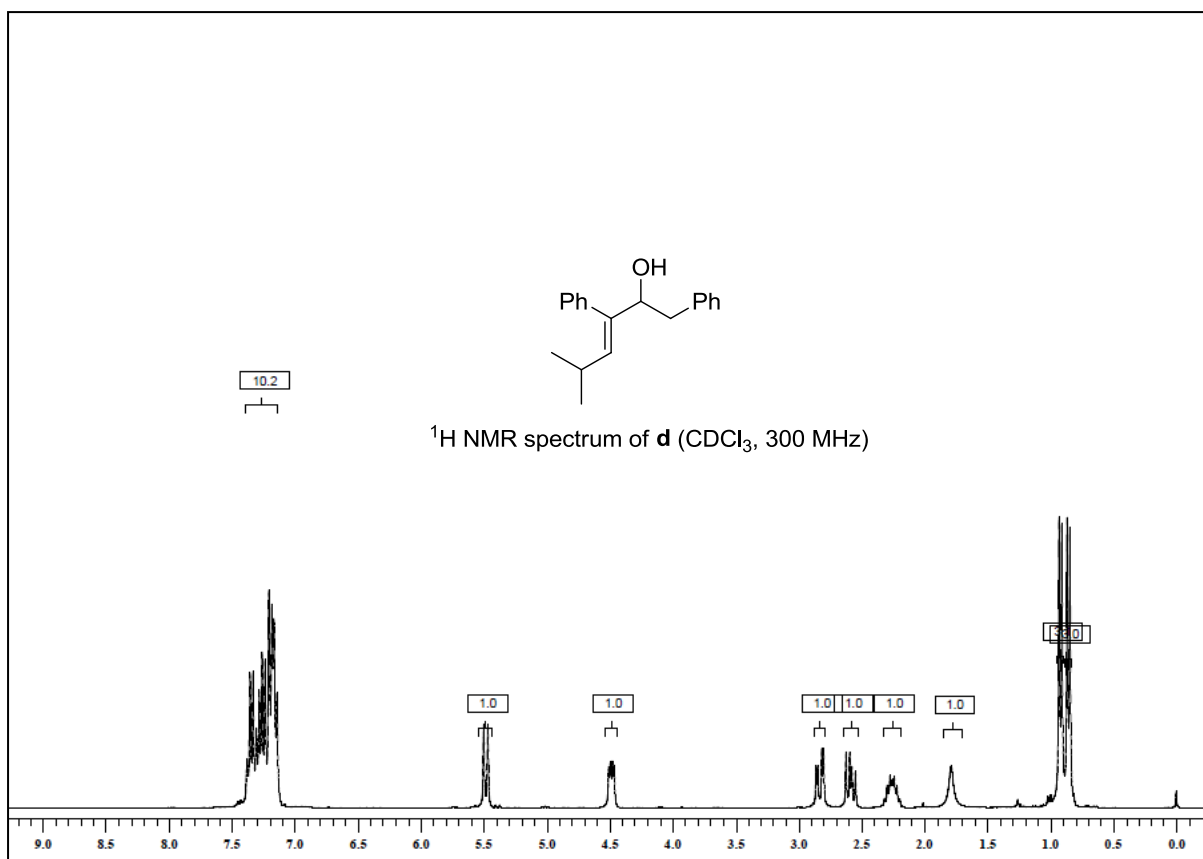


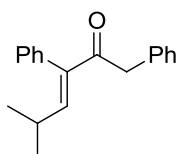
$^{13}\text{C}$  NMR spectrum of **4a** ( $\text{CDCl}_3$ , 75 MHz)



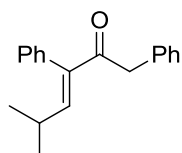
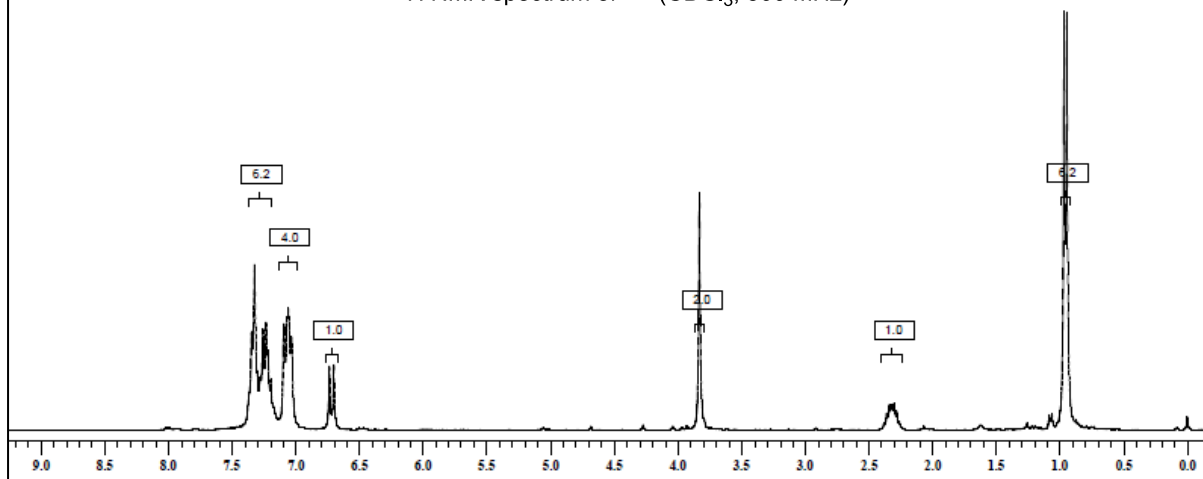




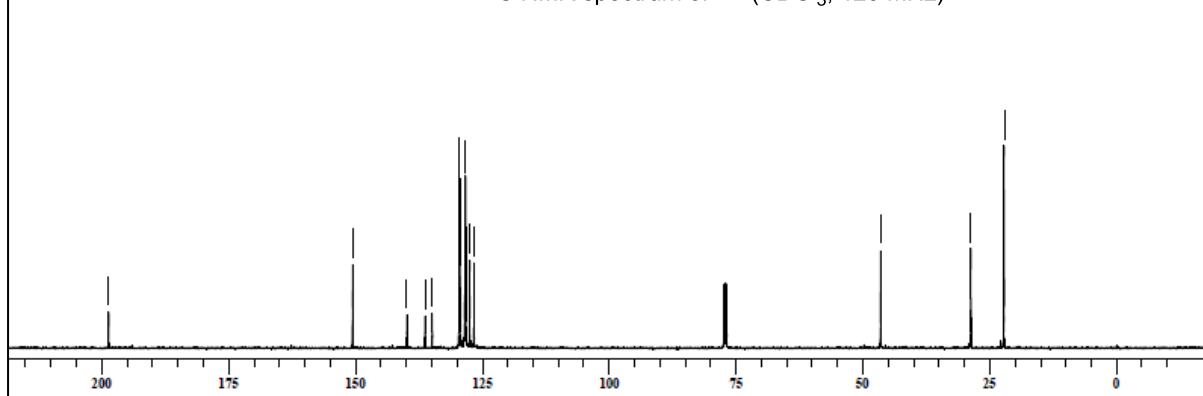


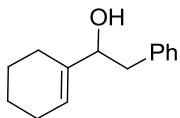


$^1\text{H}$  NMR spectrum of **4d** ( $\text{CDCl}_3$ , 300 MHz)

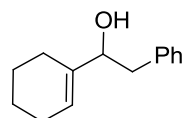
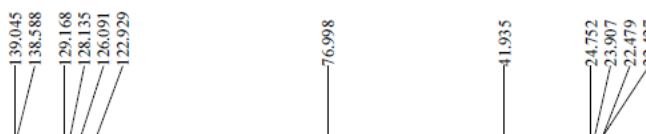
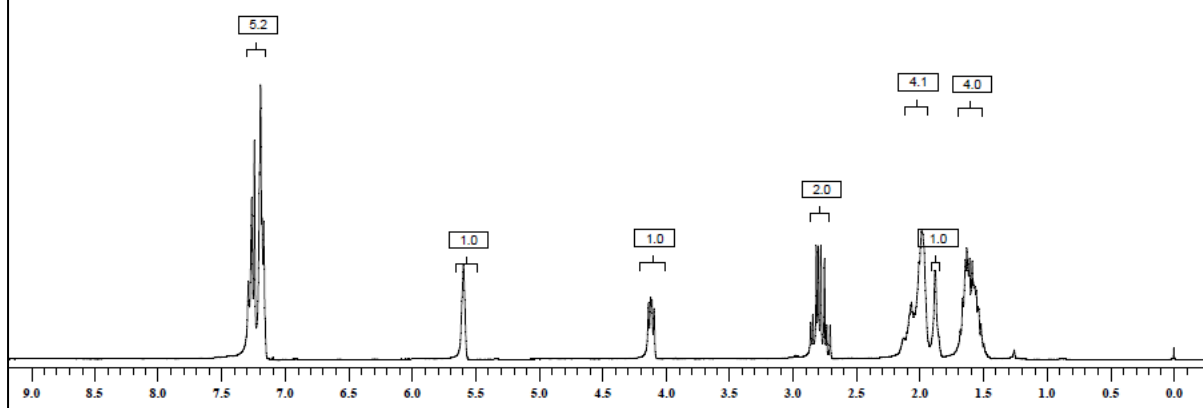


$^{13}\text{C}$  NMR spectrum of **4d** ( $\text{CDCl}_3$ , 125 MHz)

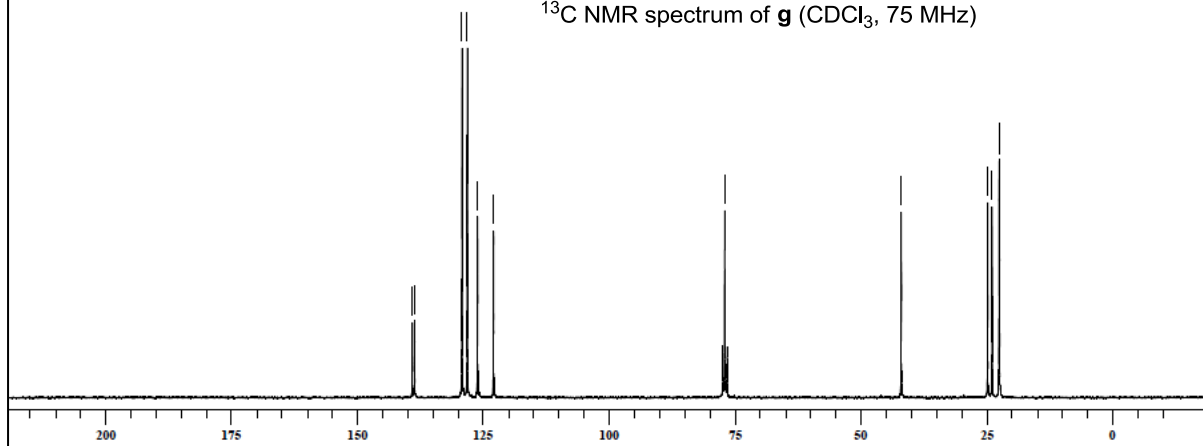


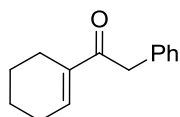


$^1\text{H}$  NMR spectrum of **g** ( $\text{CDCl}_3$ , 300 MHz)

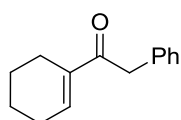
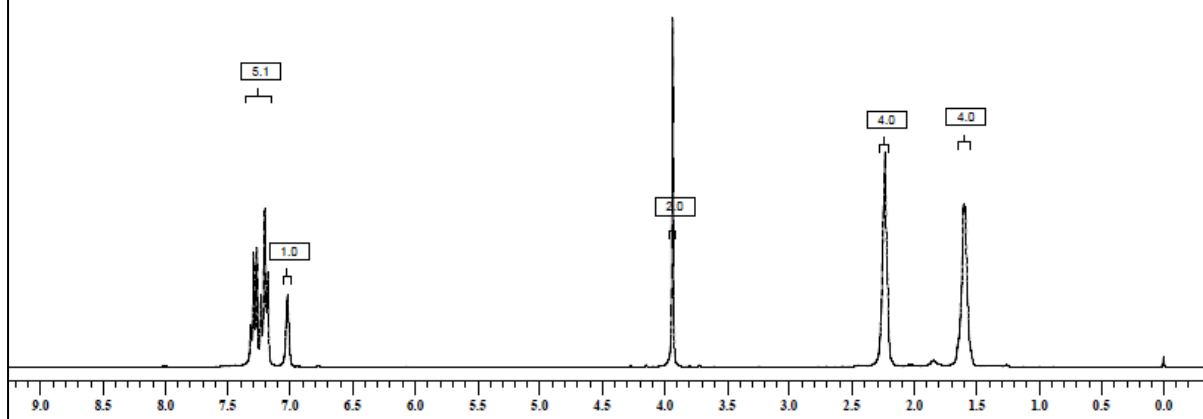


$^{13}\text{C}$  NMR spectrum of **g** ( $\text{CDCl}_3$ , 75 MHz)

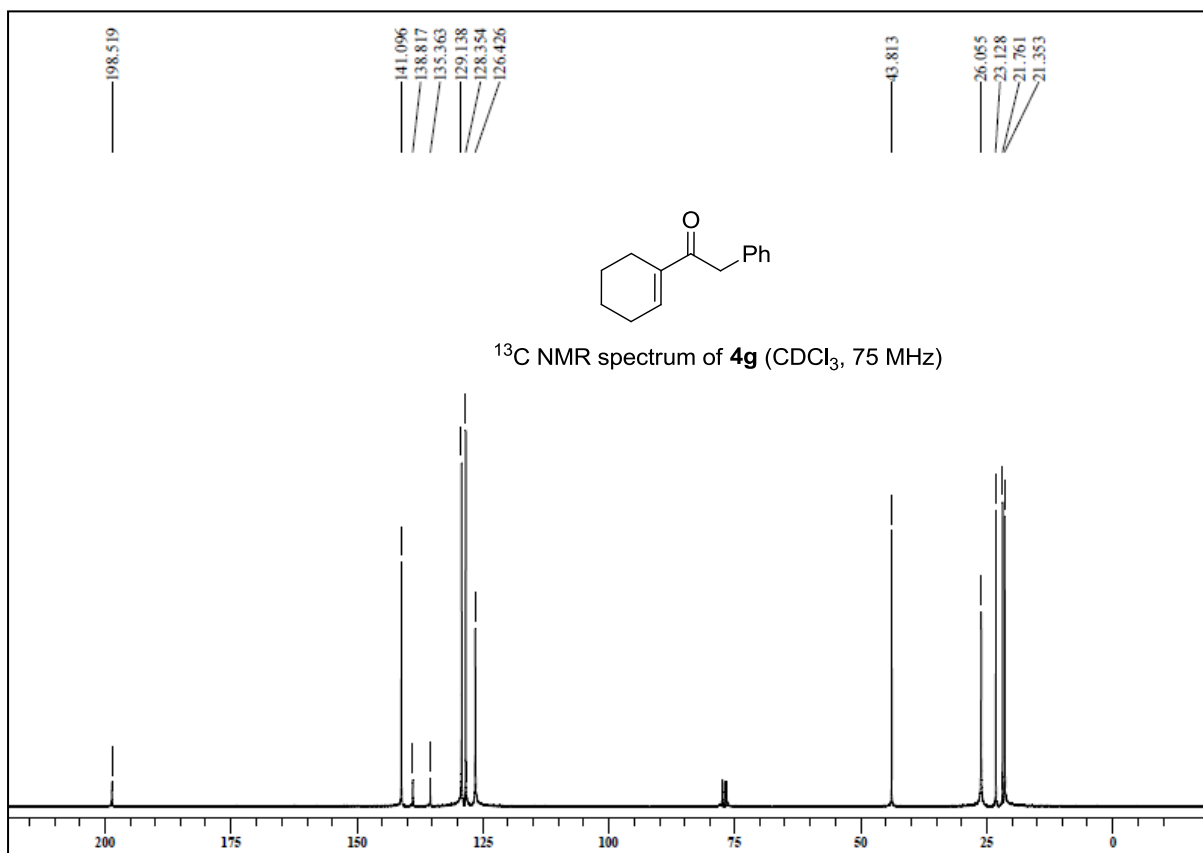




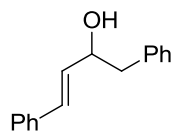
$^1\text{H}$  NMR spectrum of **4g** ( $\text{CDCl}_3$ , 300 MHz)



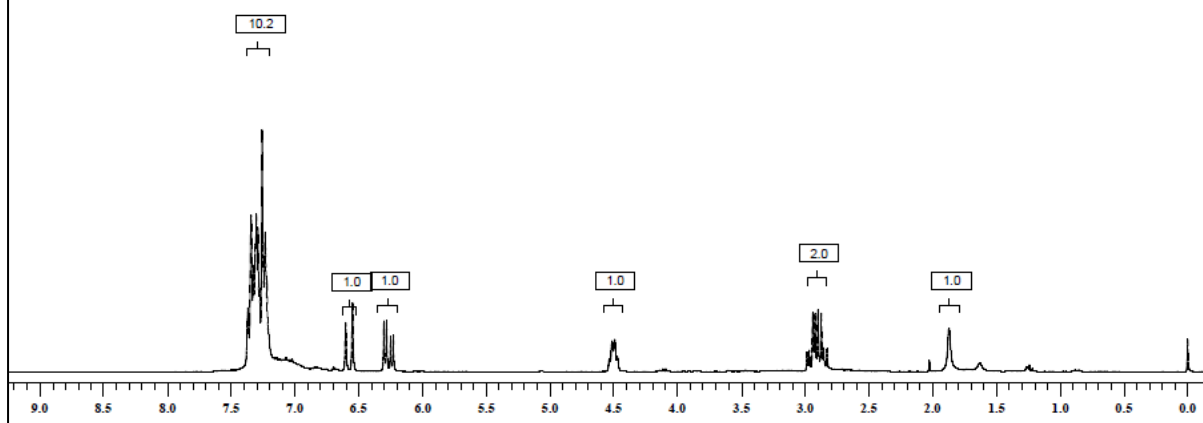
$^{13}\text{C}$  NMR spectrum of **4g** ( $\text{CDCl}_3$ , 75 MHz)







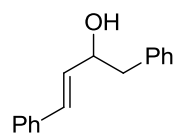
$^1\text{H}$  NMR spectrum of **h** ( $\text{CDCl}_3$ , 300 MHz)



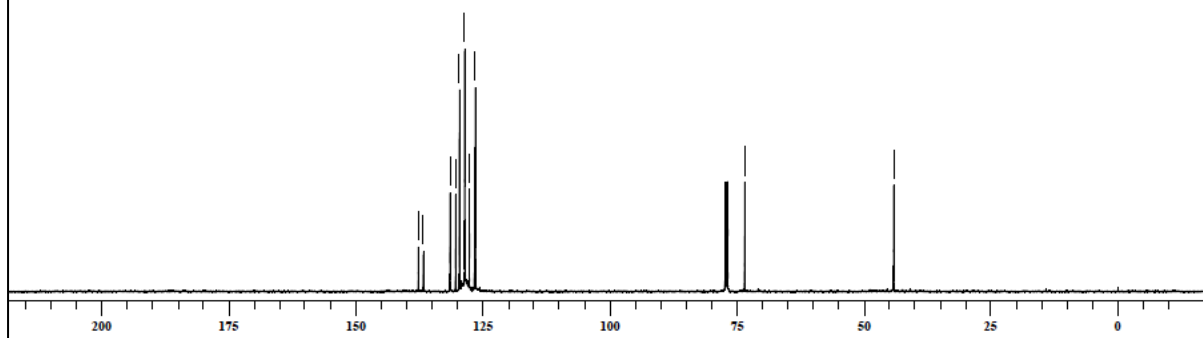
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126.430

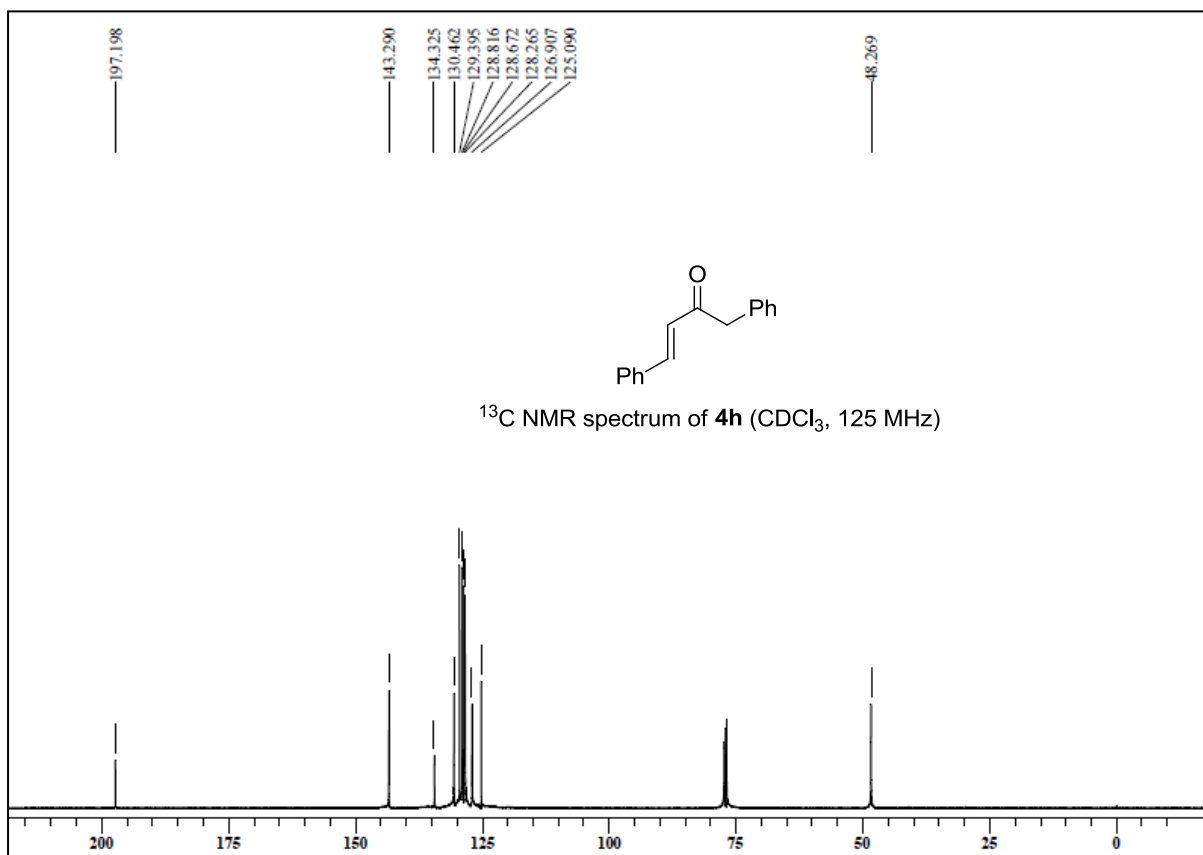
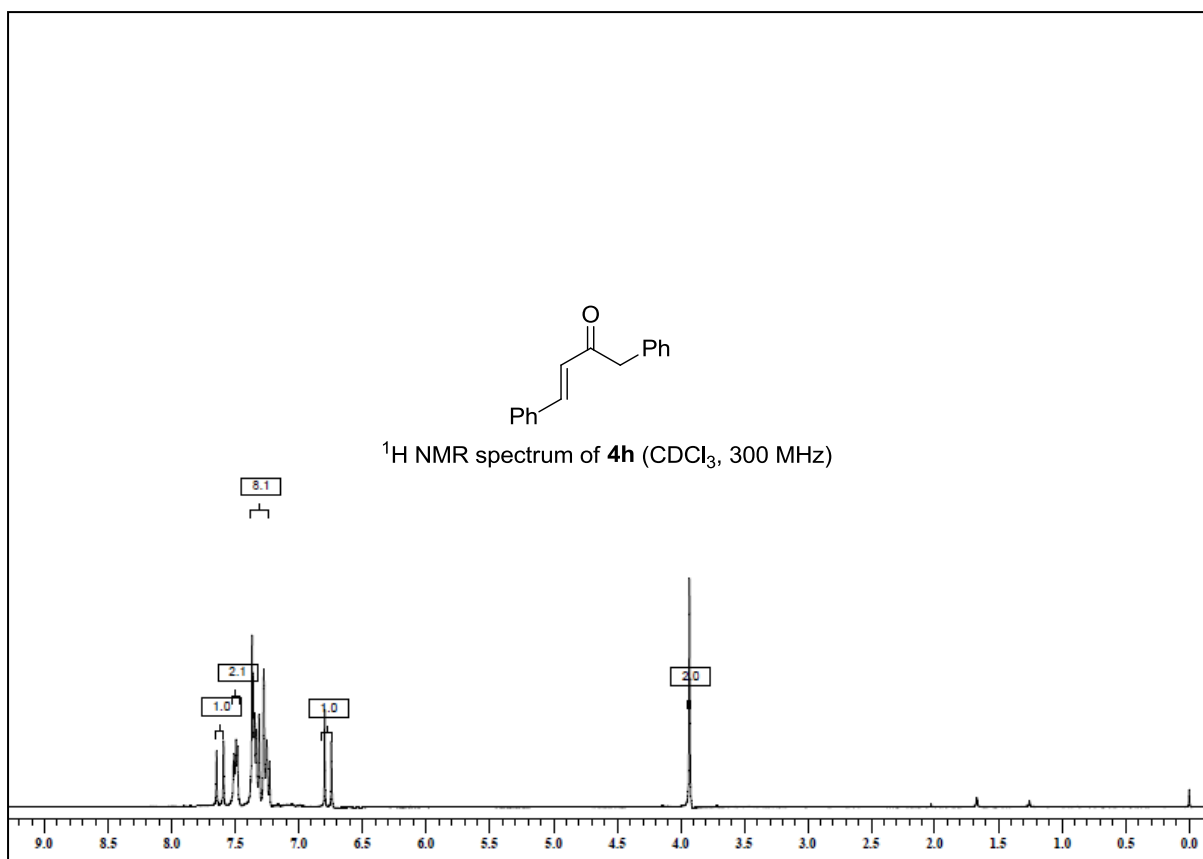
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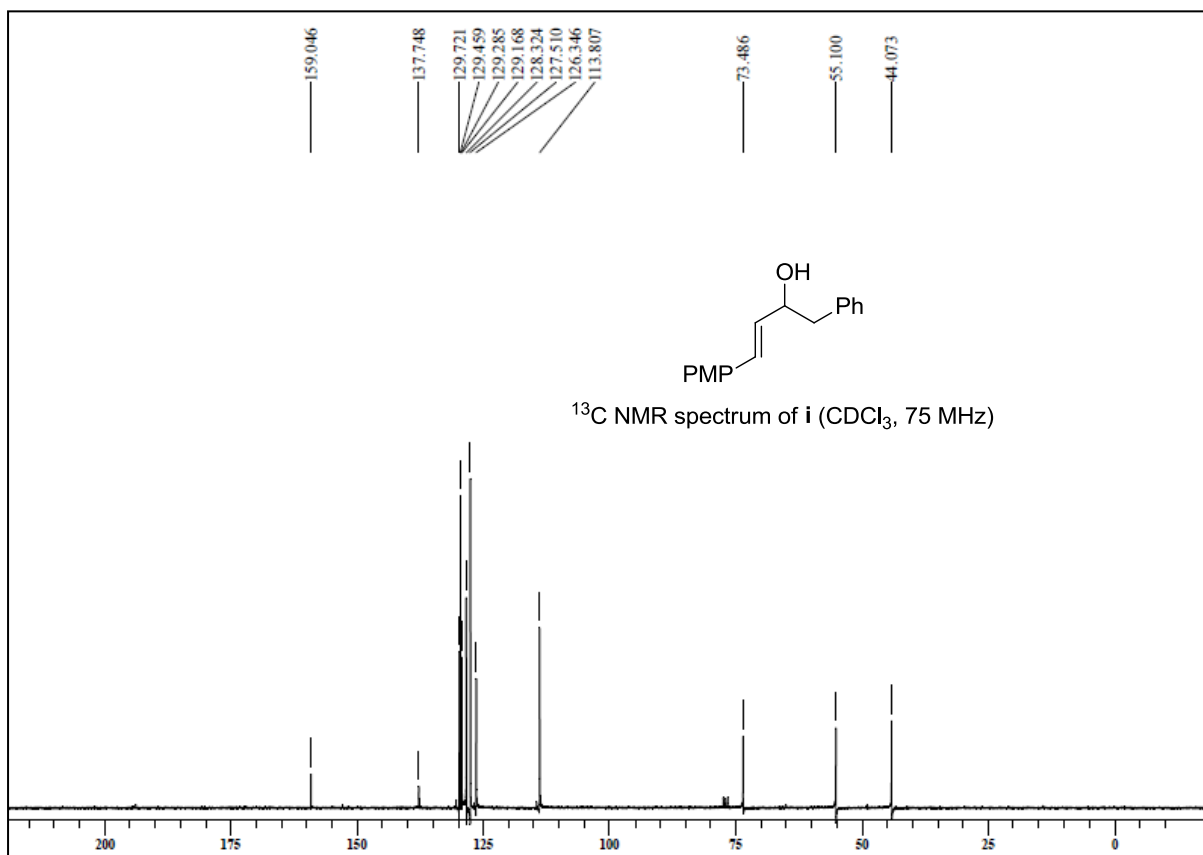
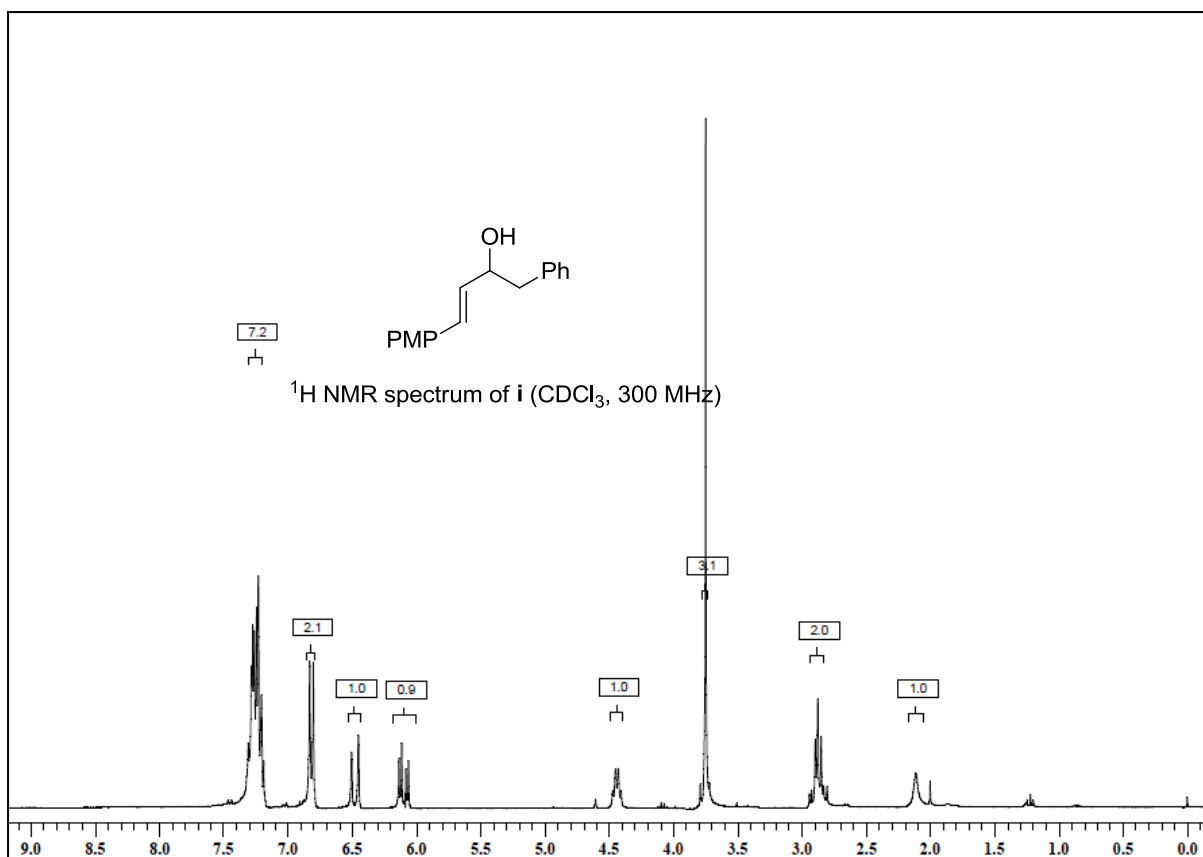
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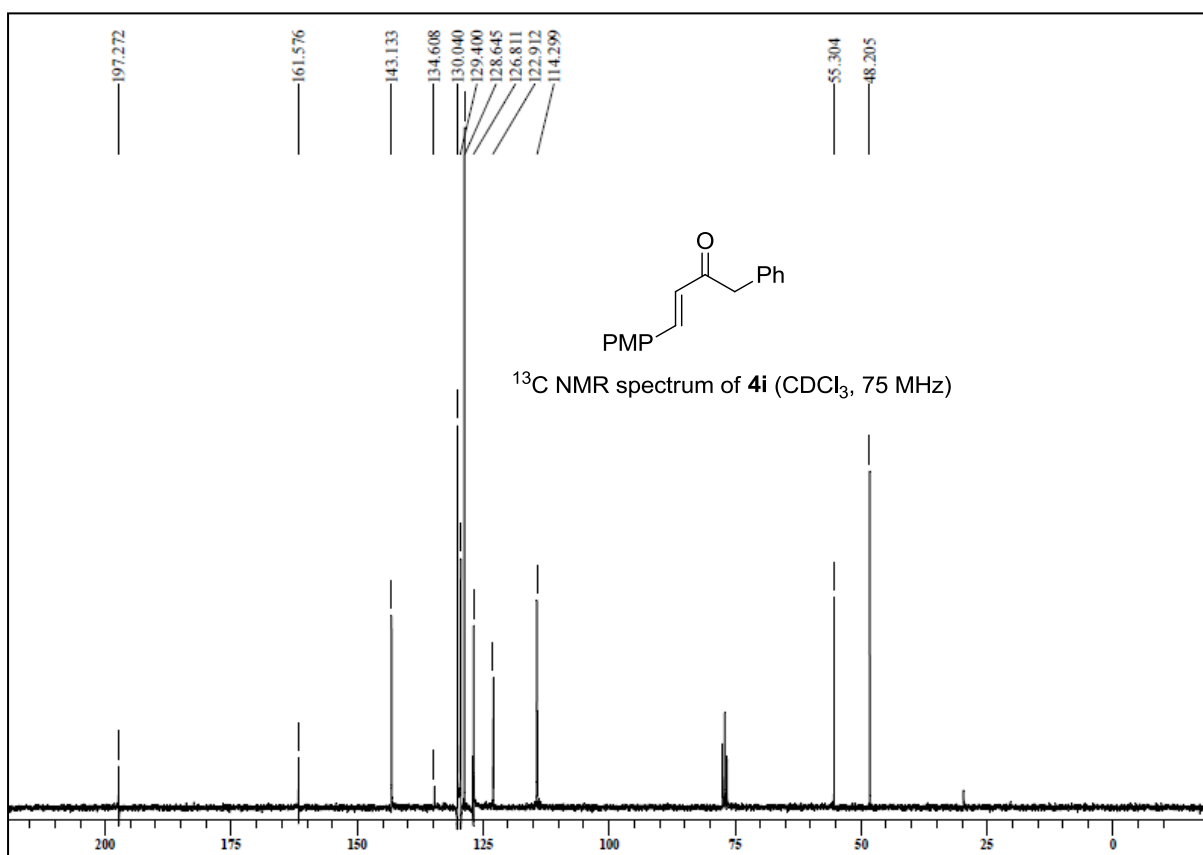
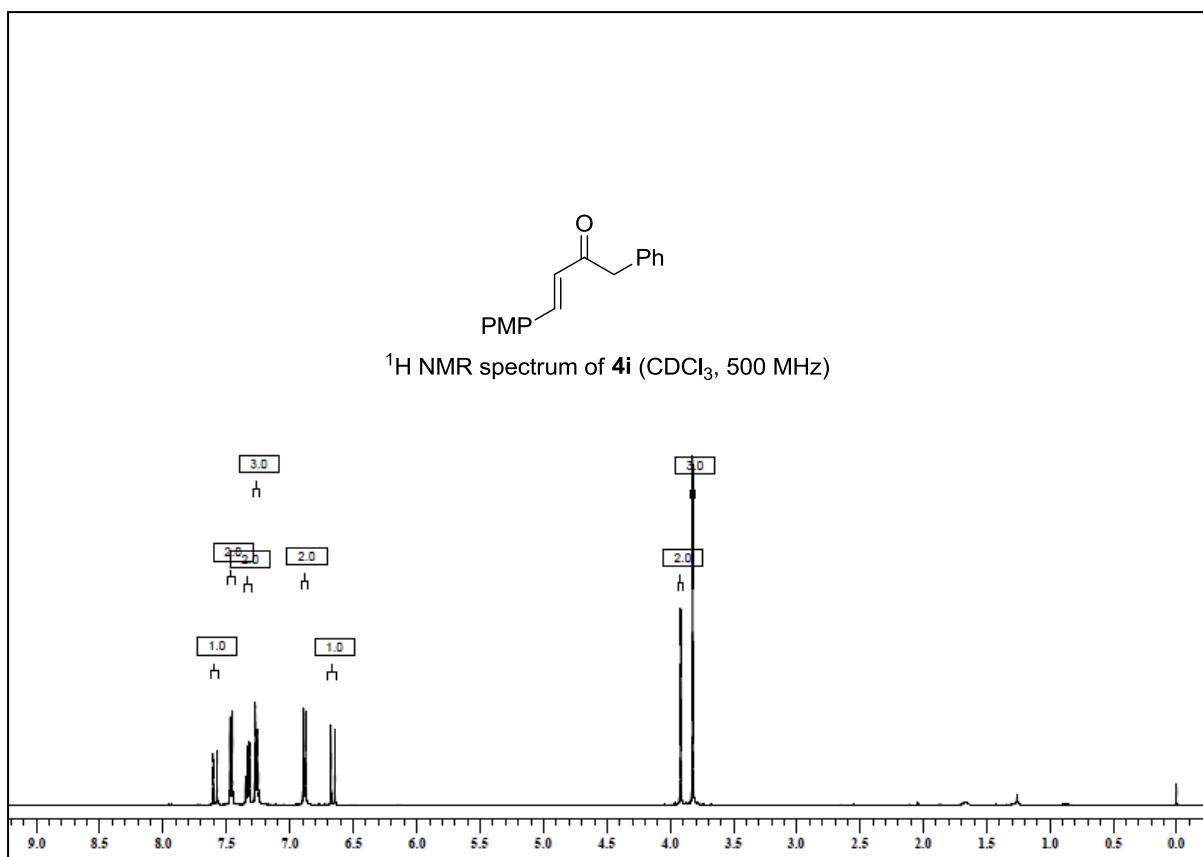


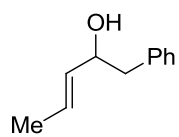
$^{13}\text{C}$  NMR spectrum of **h** ( $\text{CDCl}_3$ , 125 MHz)



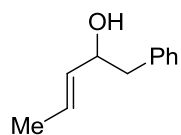
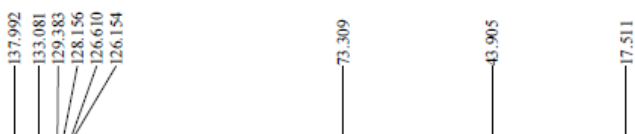
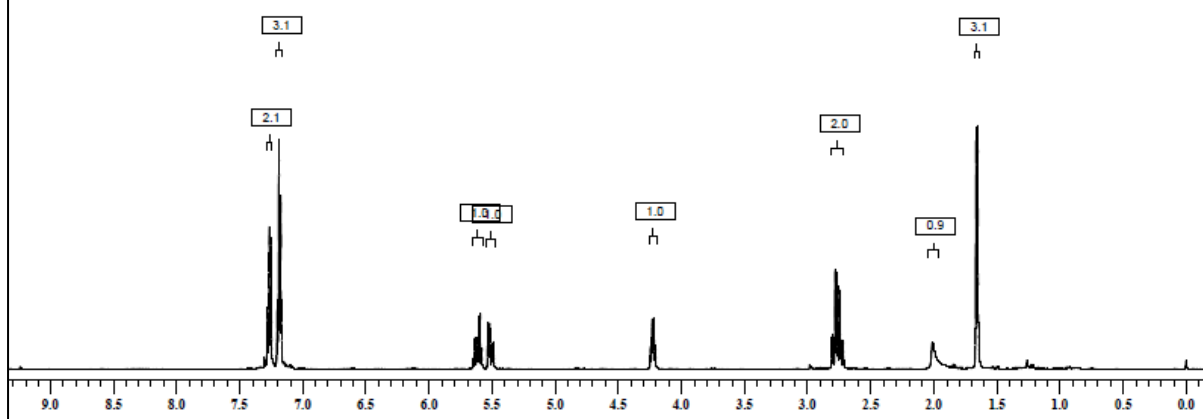




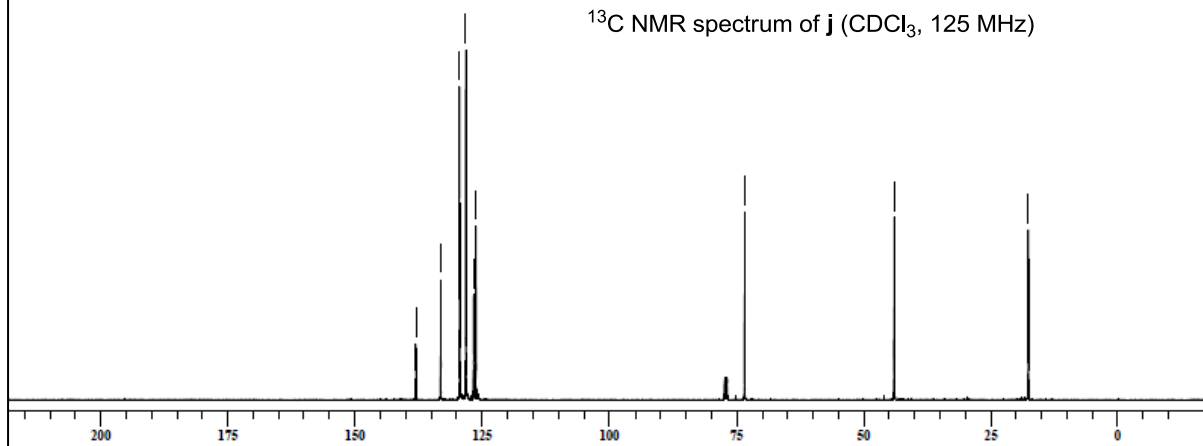


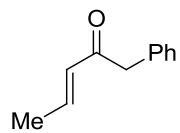


$^1\text{H}$  NMR spectrum of j ( $\text{CDCl}_3$ , 500 MHz)

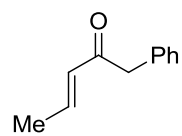
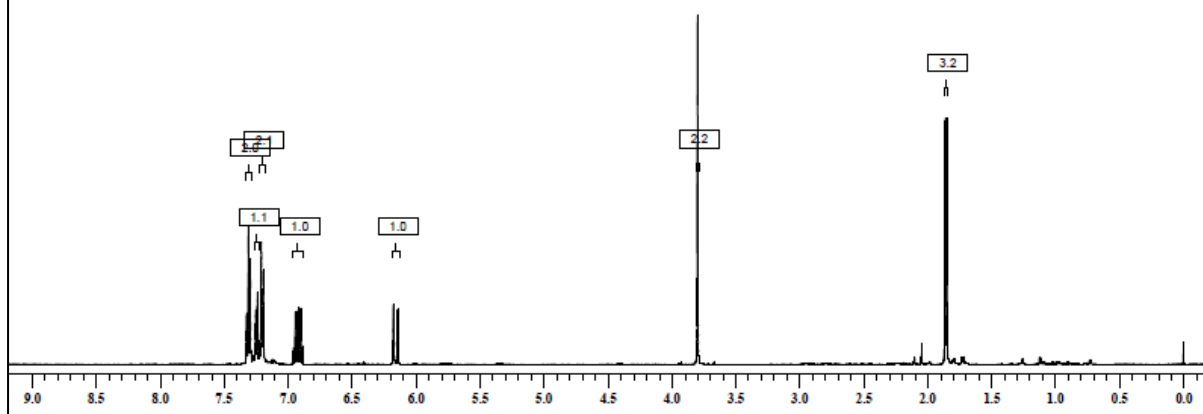


$^{13}\text{C}$  NMR spectrum of j ( $\text{CDCl}_3$ , 125 MHz)

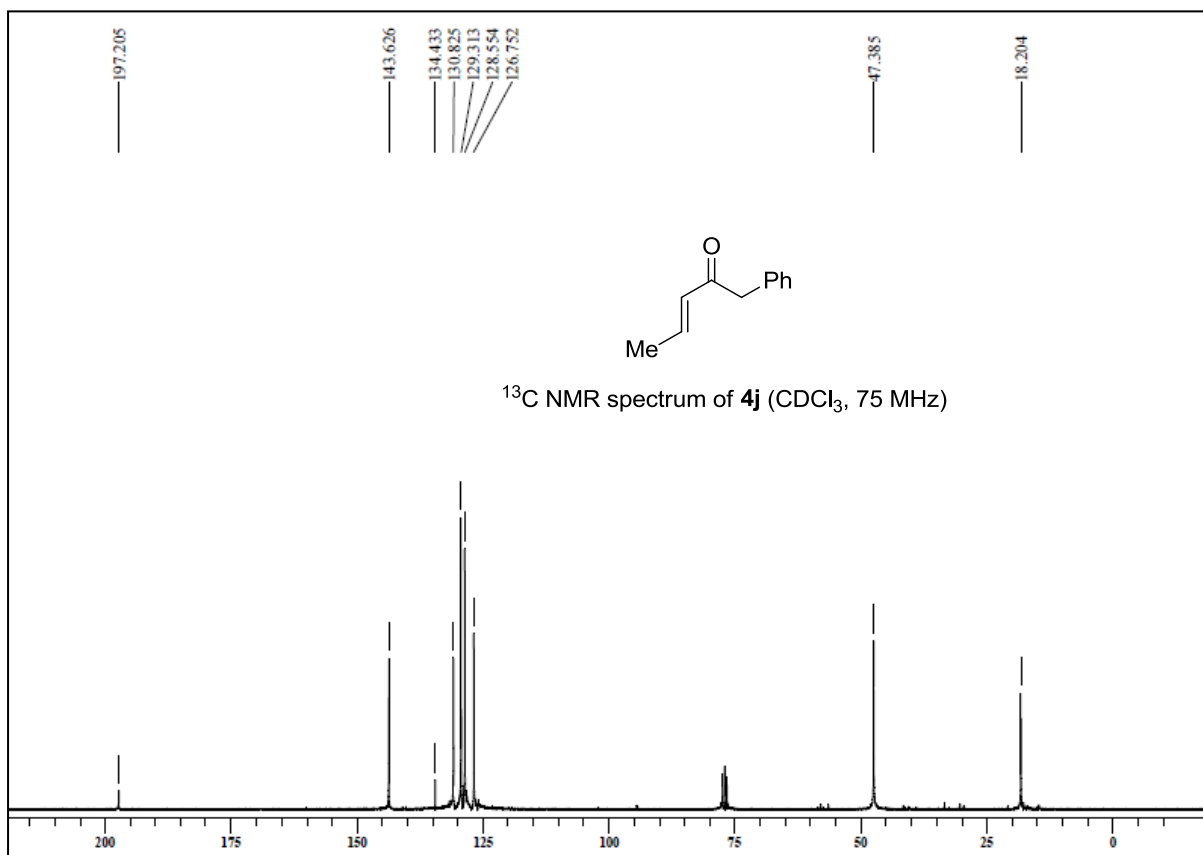


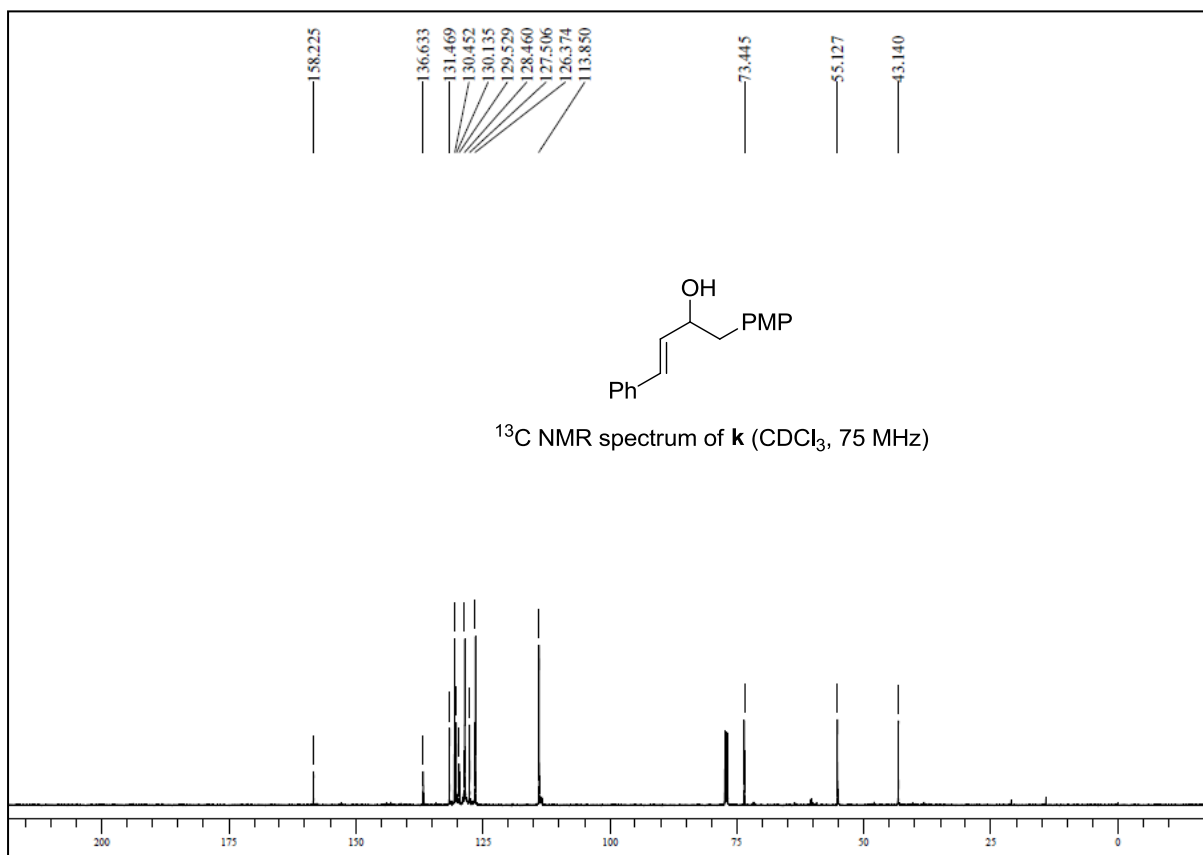
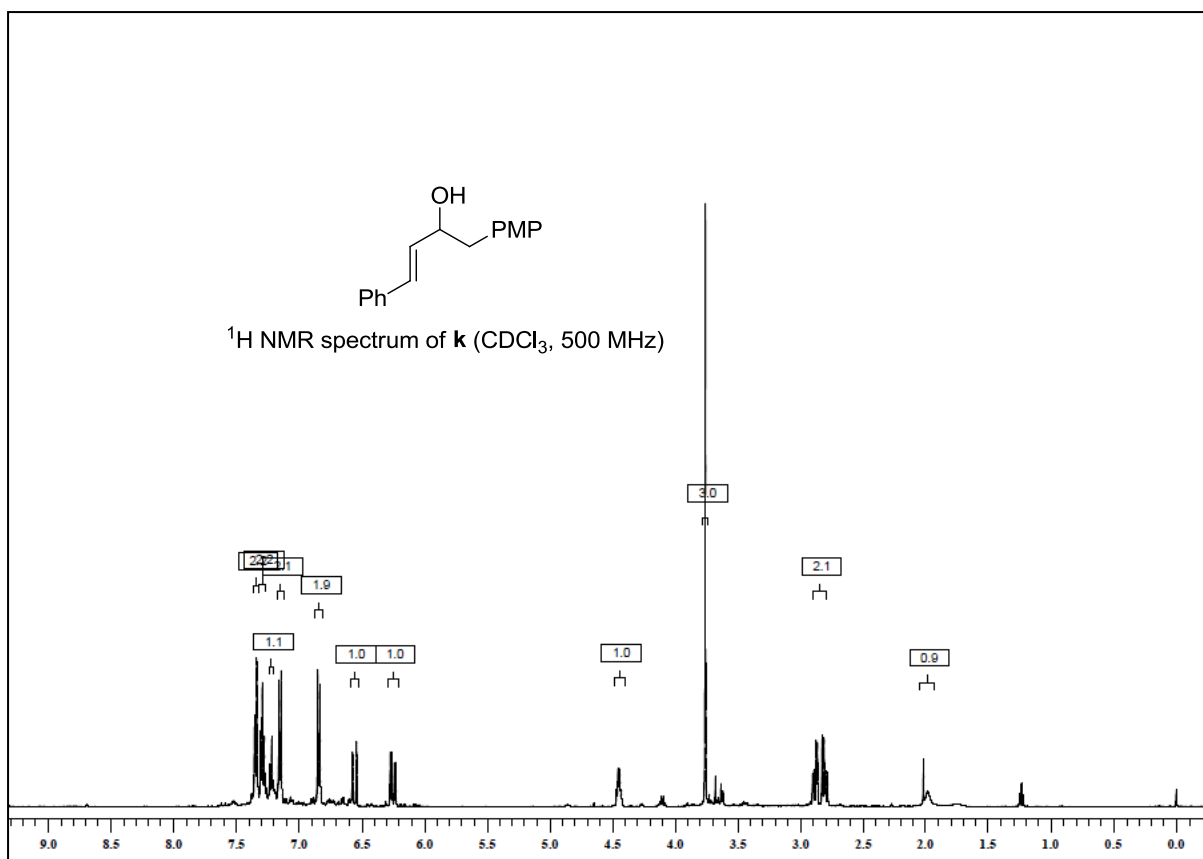


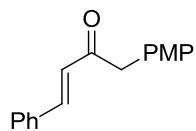
$^1\text{H}$  NMR spectrum of **4j** ( $\text{CDCl}_3$ , 500 MHz)



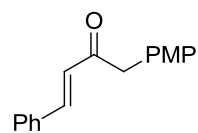
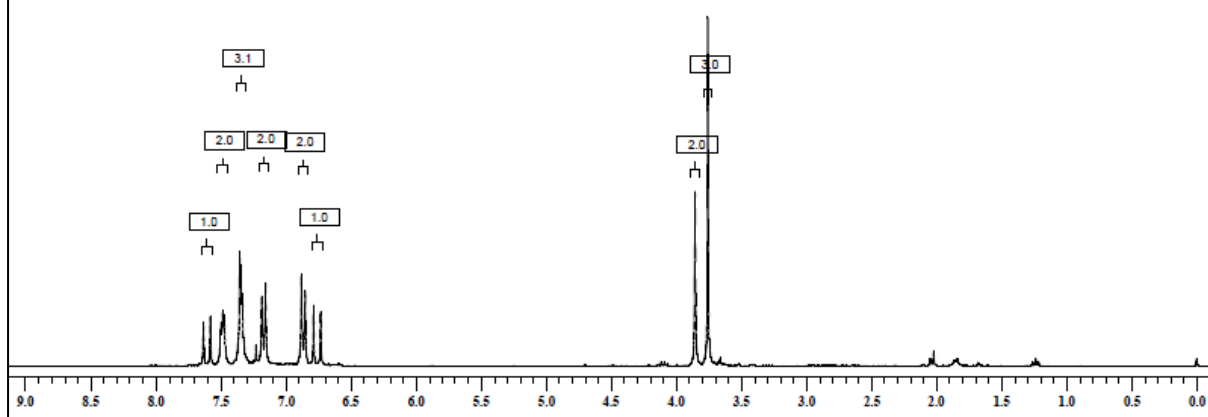
$^{13}\text{C}$  NMR spectrum of **4j** ( $\text{CDCl}_3$ , 75 MHz)



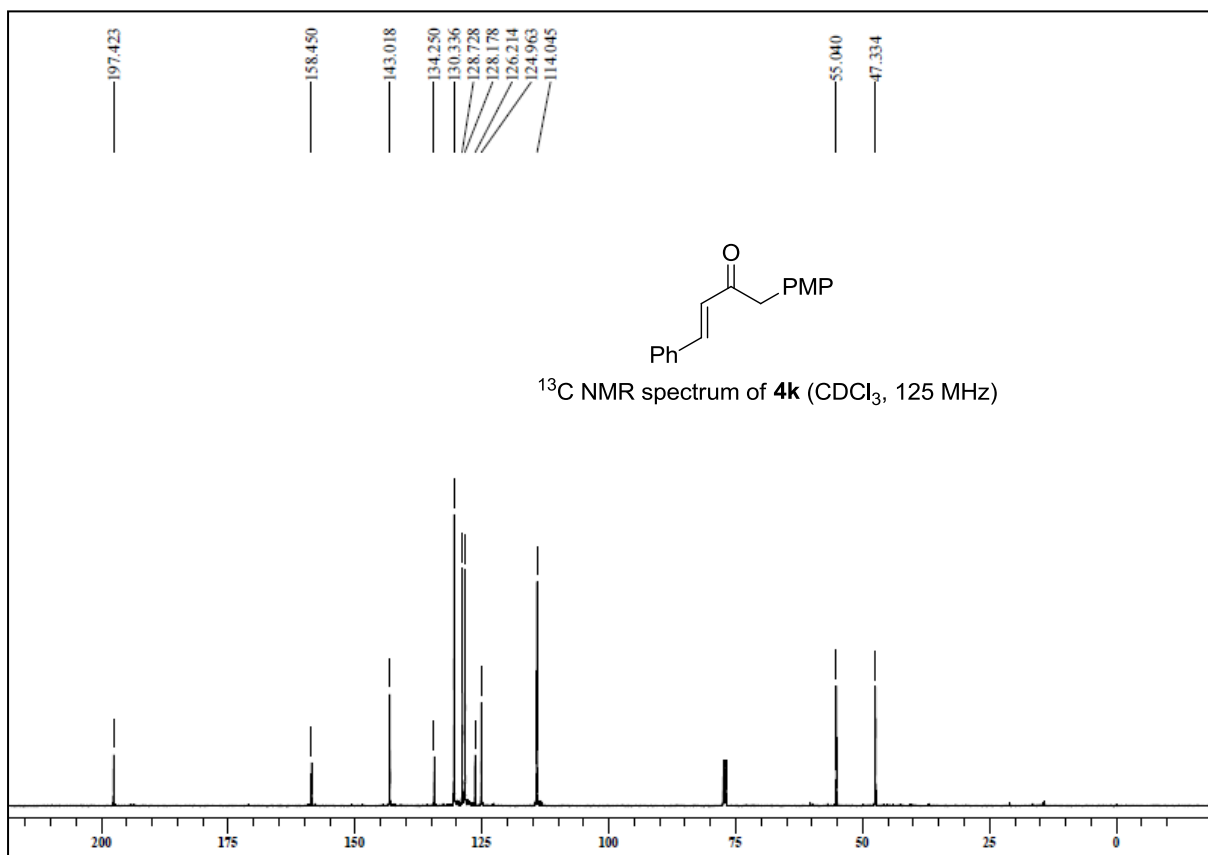




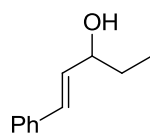
$^1\text{H}$  NMR spectrum of **4k** ( $\text{CDCl}_3$ , 300 MHz)



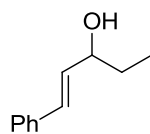
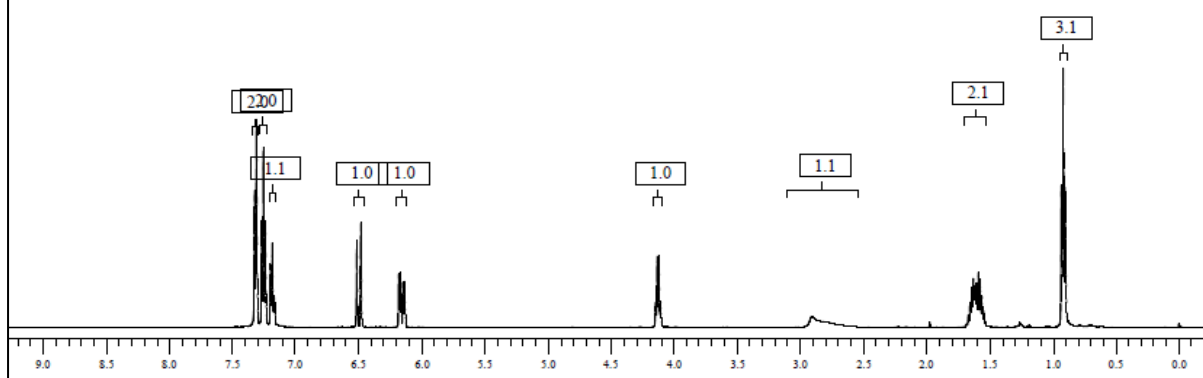
$^{13}\text{C}$  NMR spectrum of **4k** ( $\text{CDCl}_3$ , 125 MHz)



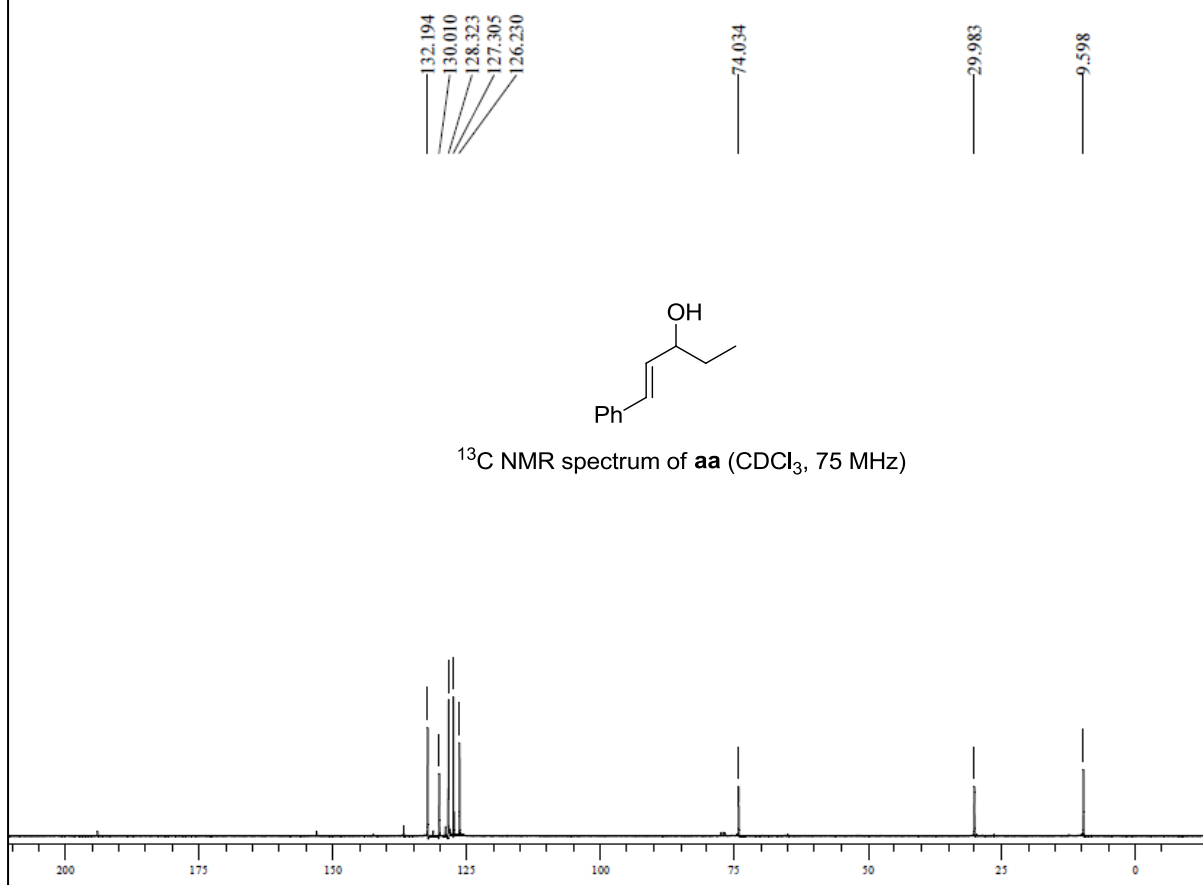


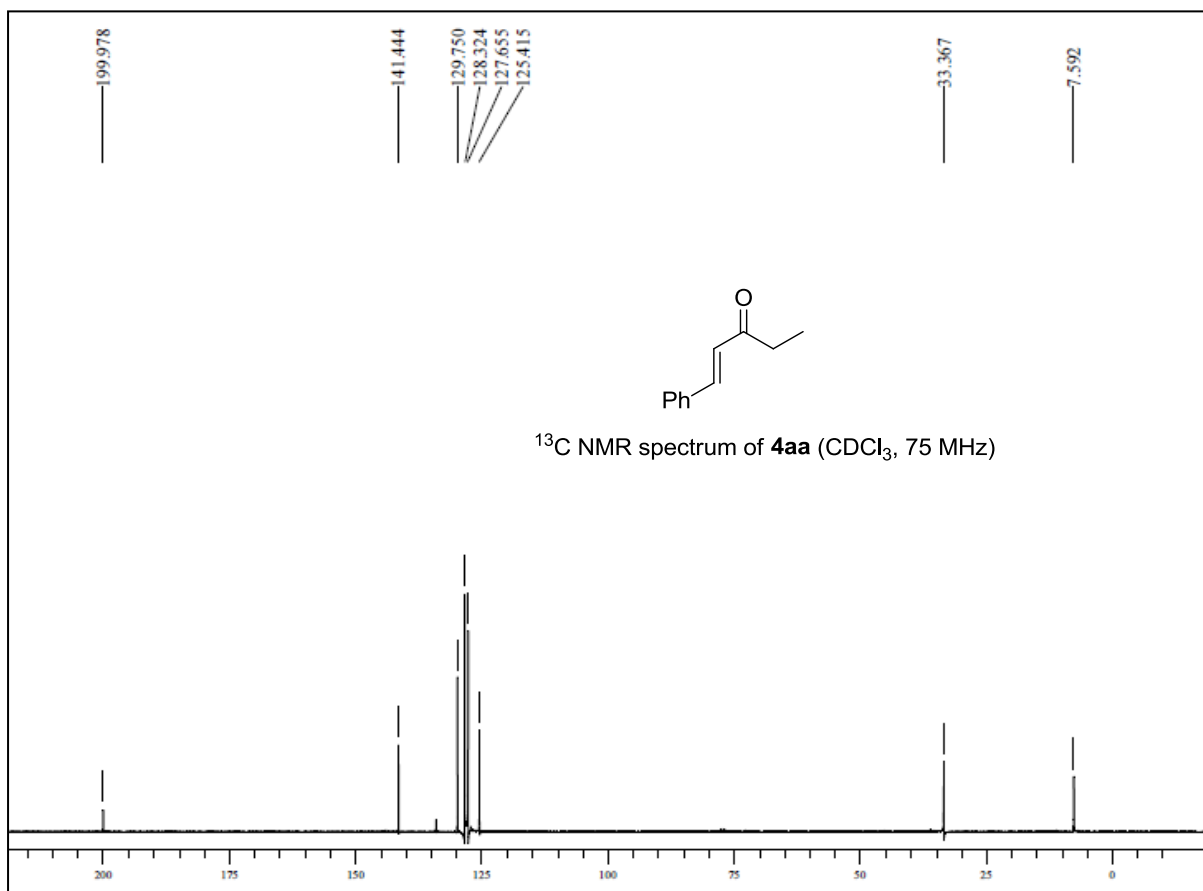
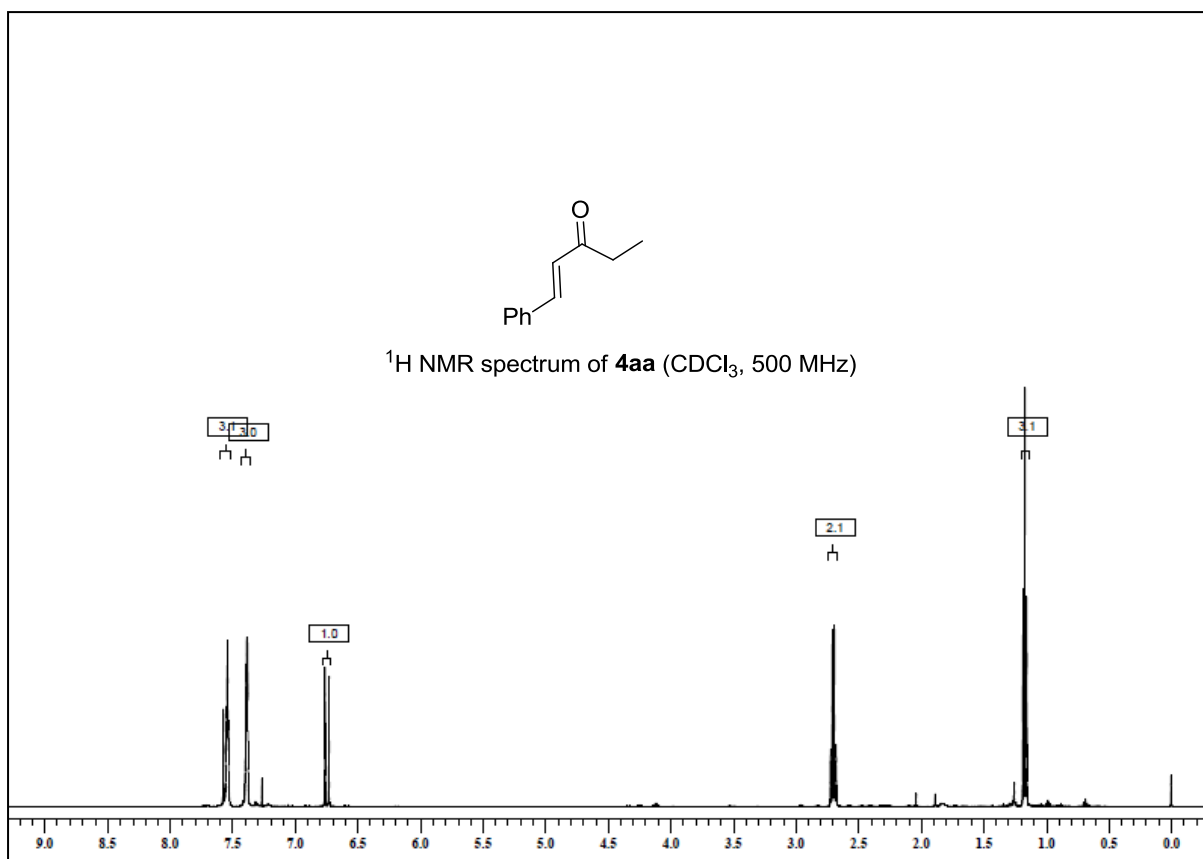


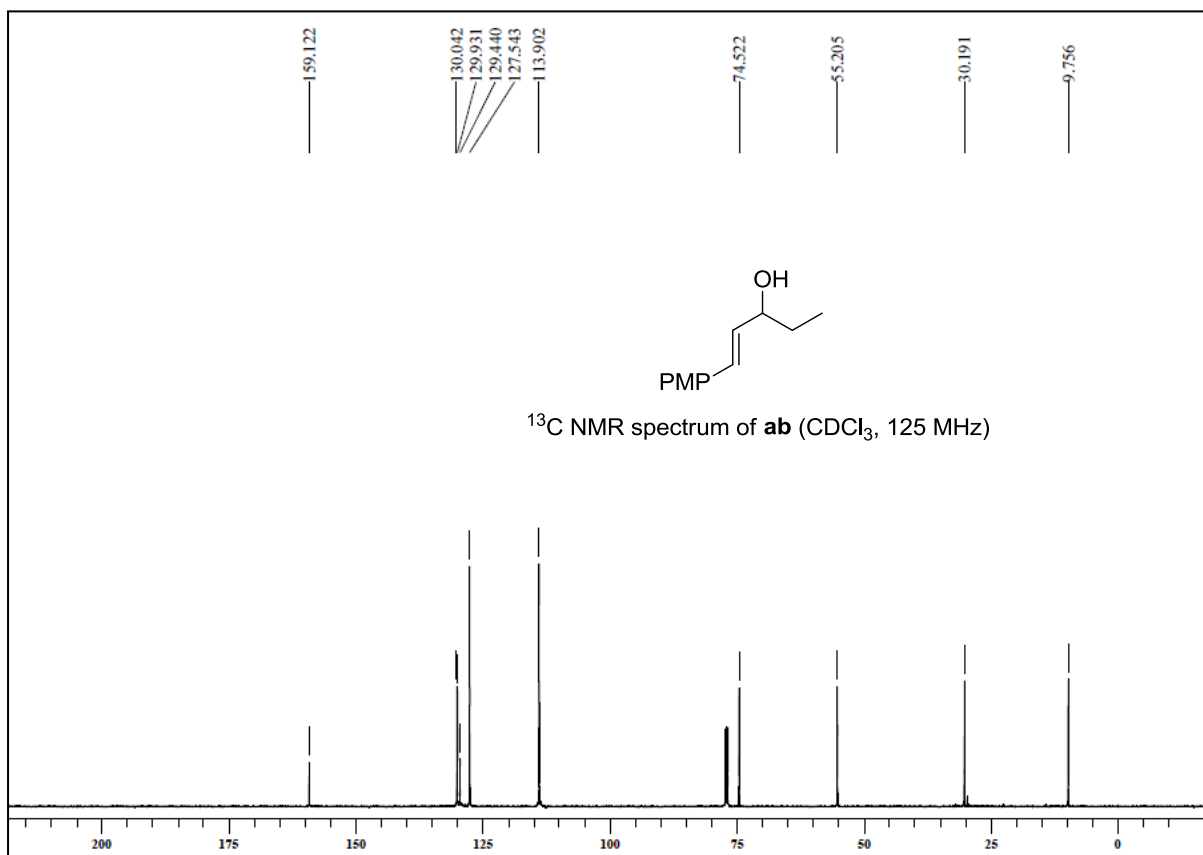
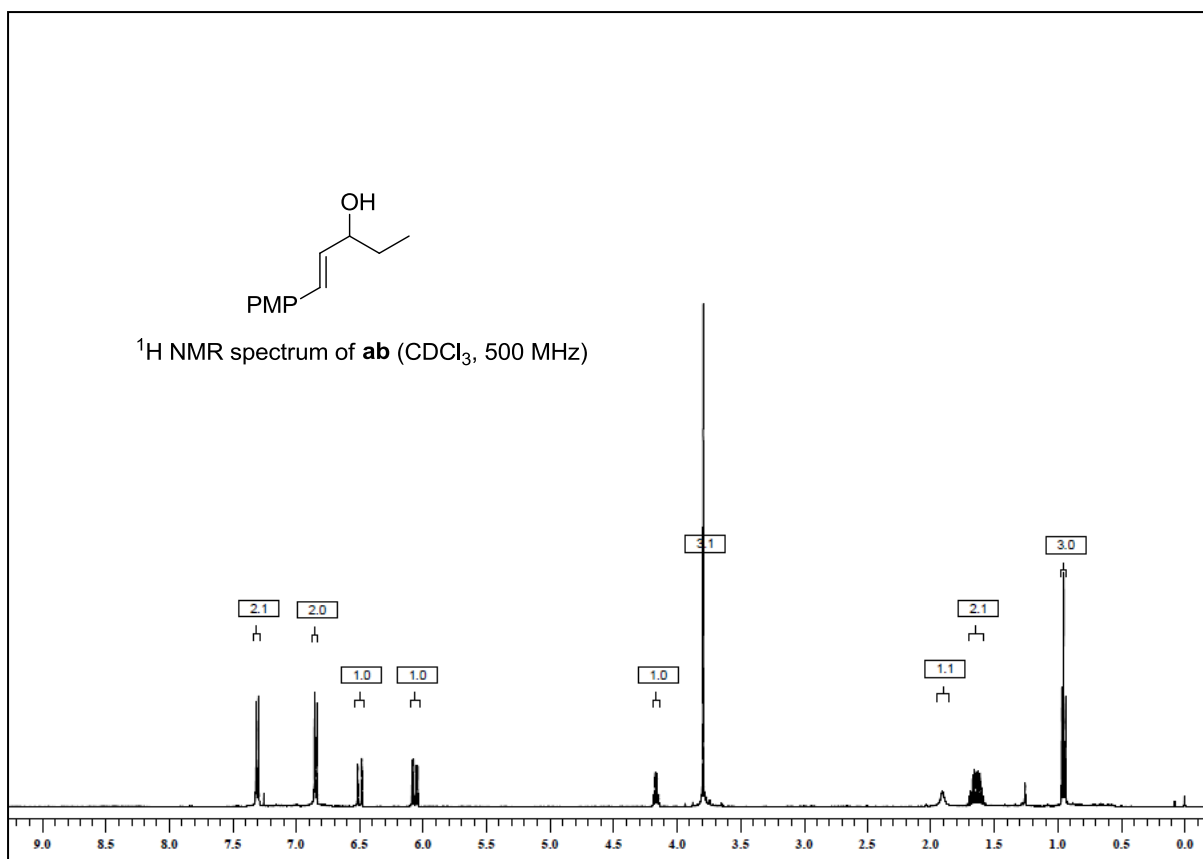
$^1\text{H}$  NMR spectrum of **aa** ( $\text{CDCl}_3$ , 300 MHz)

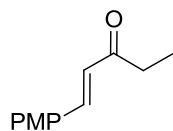


$^{13}\text{C}$  NMR spectrum of **aa** ( $\text{CDCl}_3$ , 75 MHz)

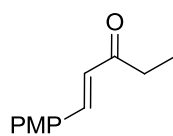
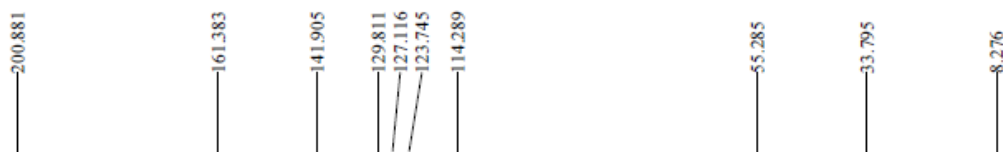
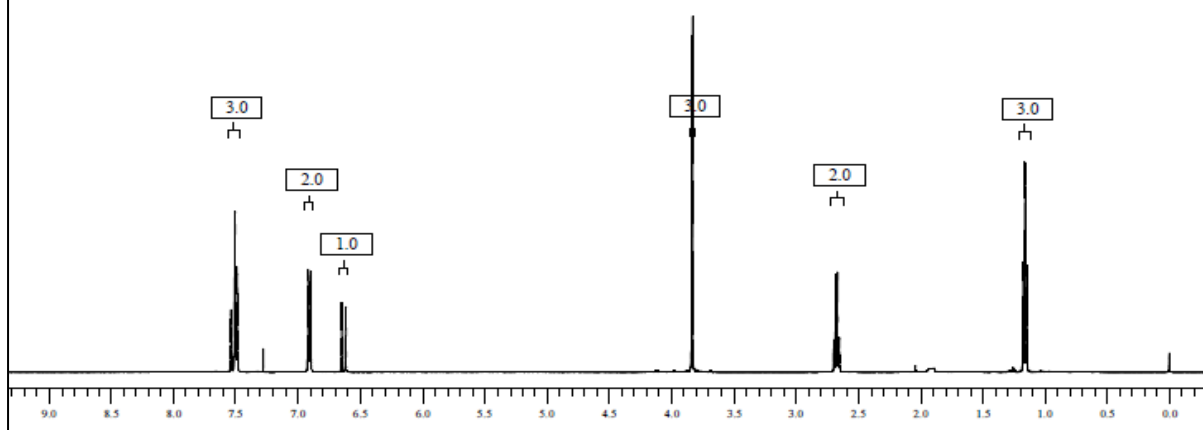




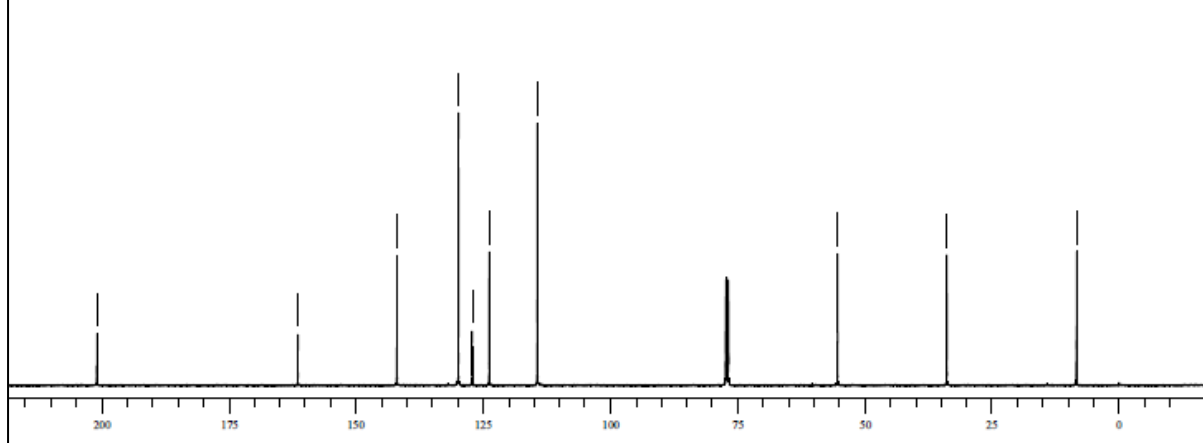


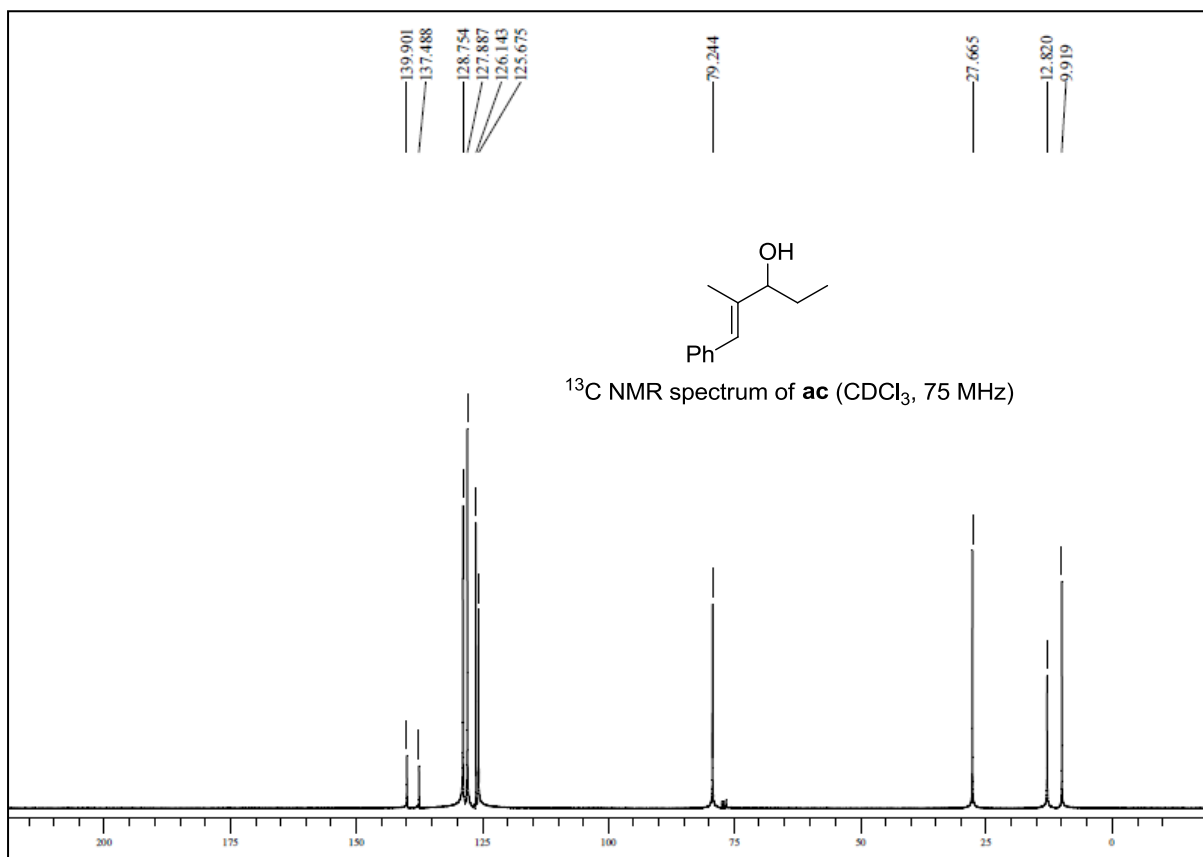
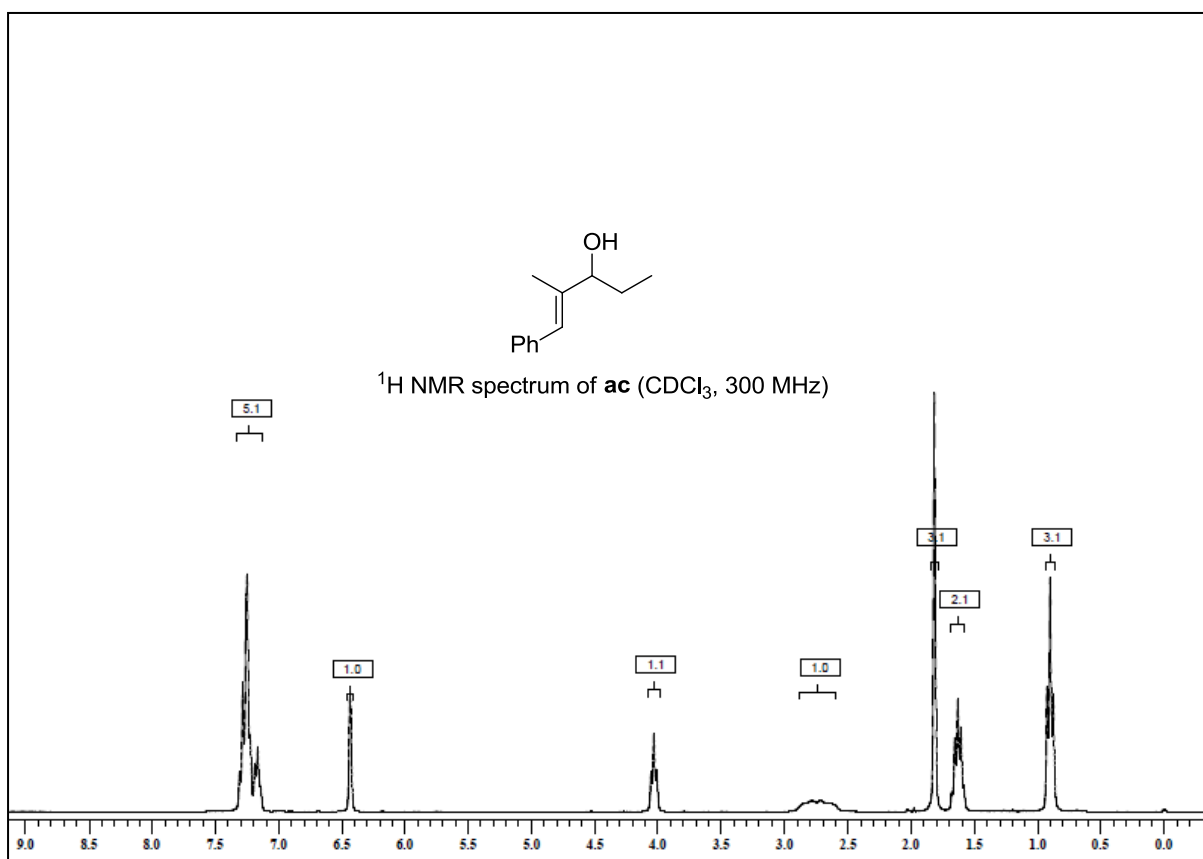


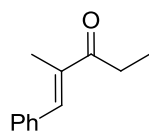
$^1\text{H}$  NMR spectrum of **4ab** ( $\text{CDCl}_3$ , 500 MHz)



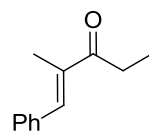
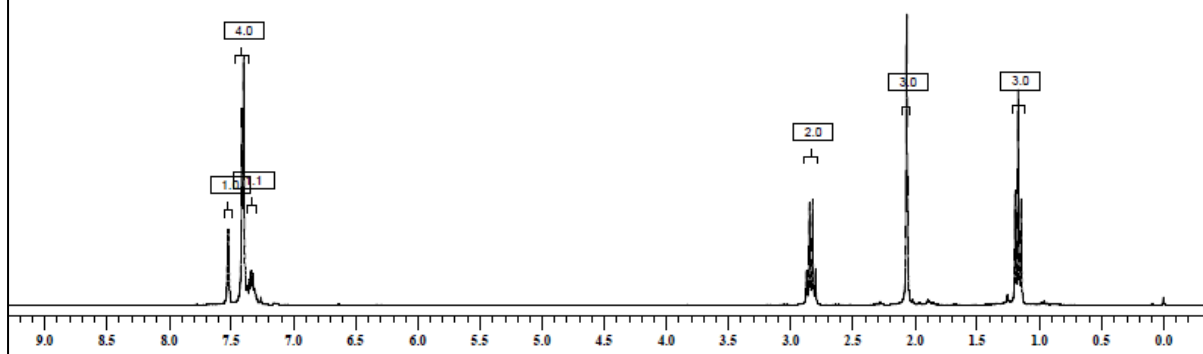
$^{13}\text{C}$  NMR spectrum of **4ab** ( $\text{CDCl}_3$ , 125 MHz)



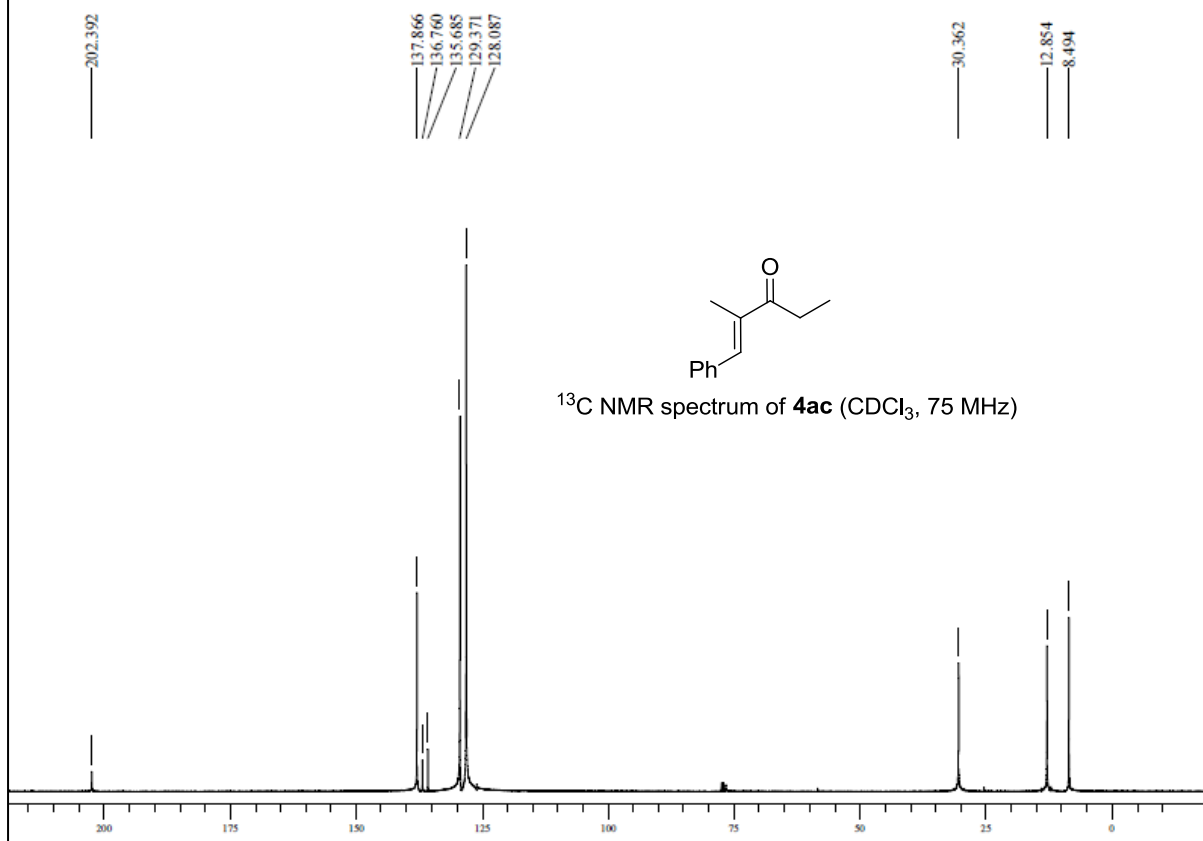


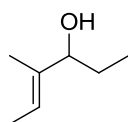


$^1\text{H}$  NMR spectrum of **4ac** ( $\text{CDCl}_3$ , 300 MHz)

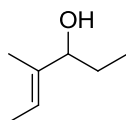
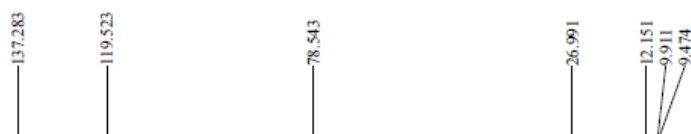
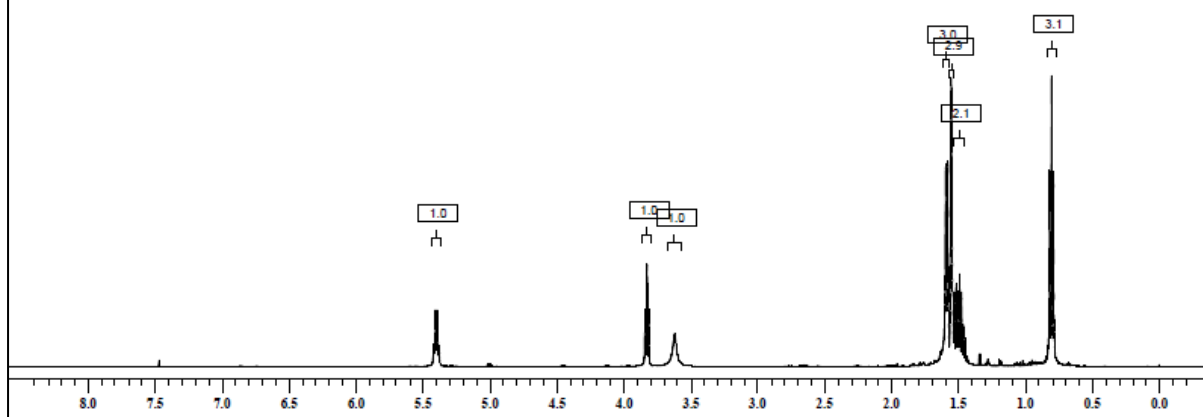


$^{13}\text{C}$  NMR spectrum of **4ac** ( $\text{CDCl}_3$ , 75 MHz)

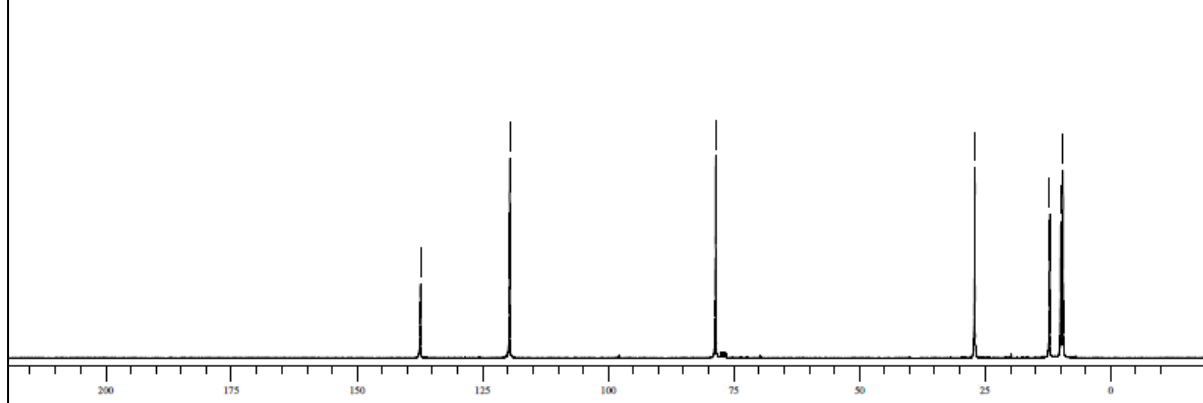


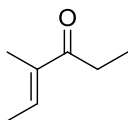


$^1\text{H}$  NMR spectrum of **ae** ( $\text{CDCl}_3$ , 500 MHz)

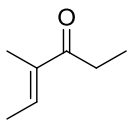
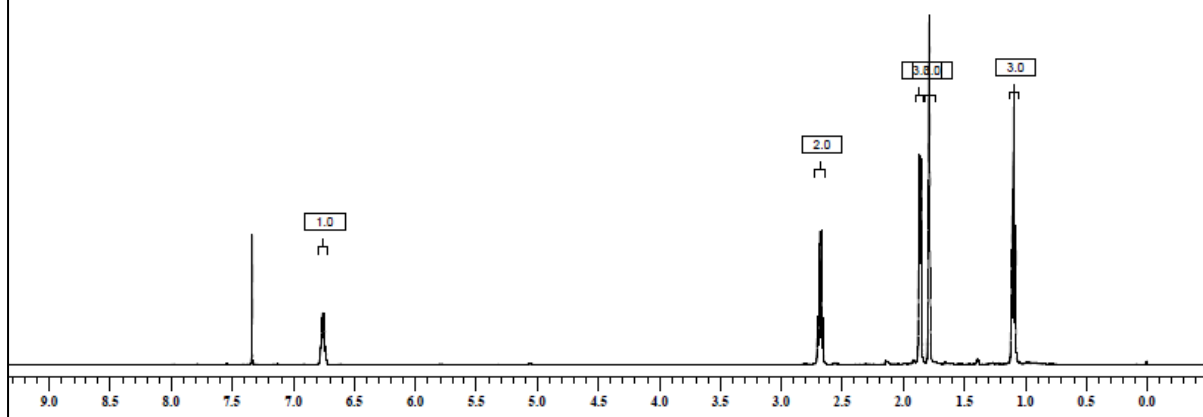


$^{13}\text{C}$  NMR spectrum of **ae** ( $\text{CDCl}_3$ , 75 MHz)

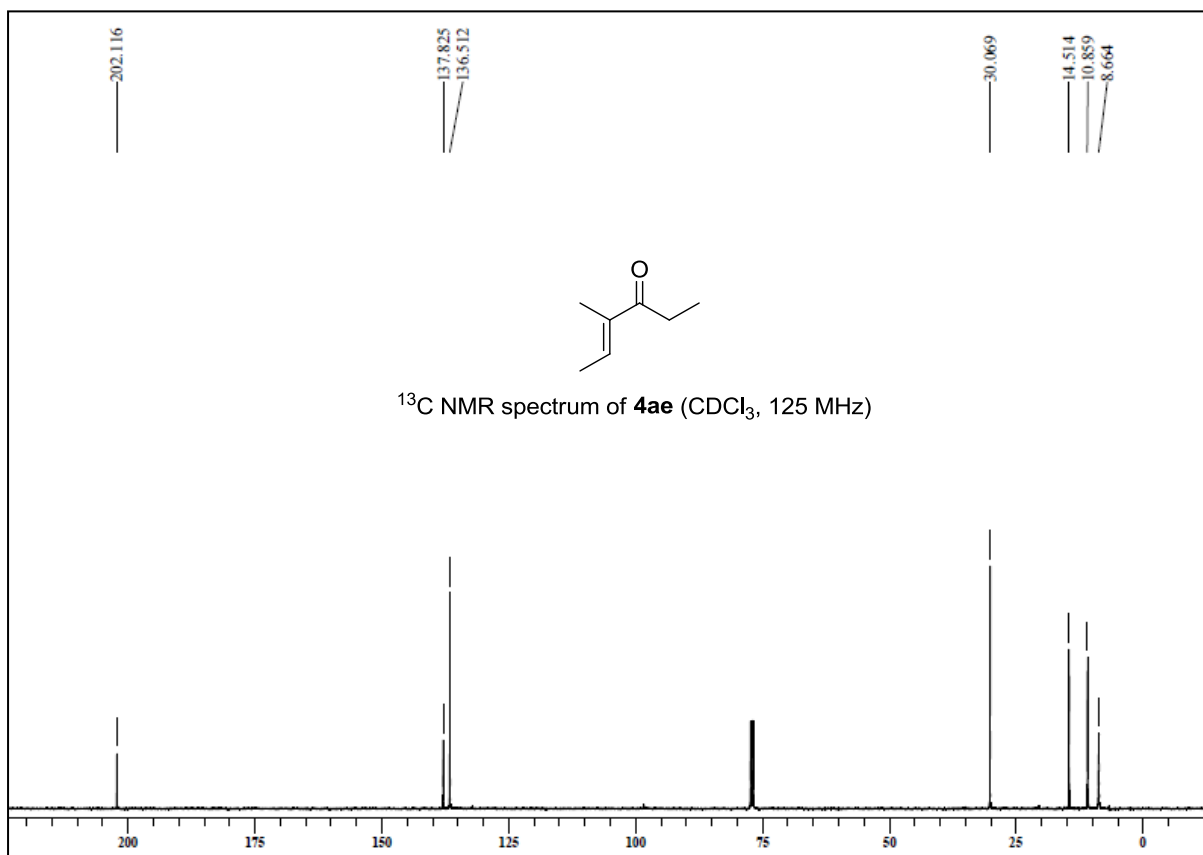




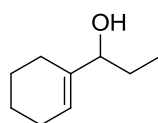
$^1\text{H}$  NMR spectrum of **4ae** ( $\text{CDCl}_3$ , 500 MHz)



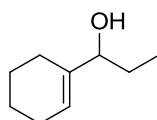
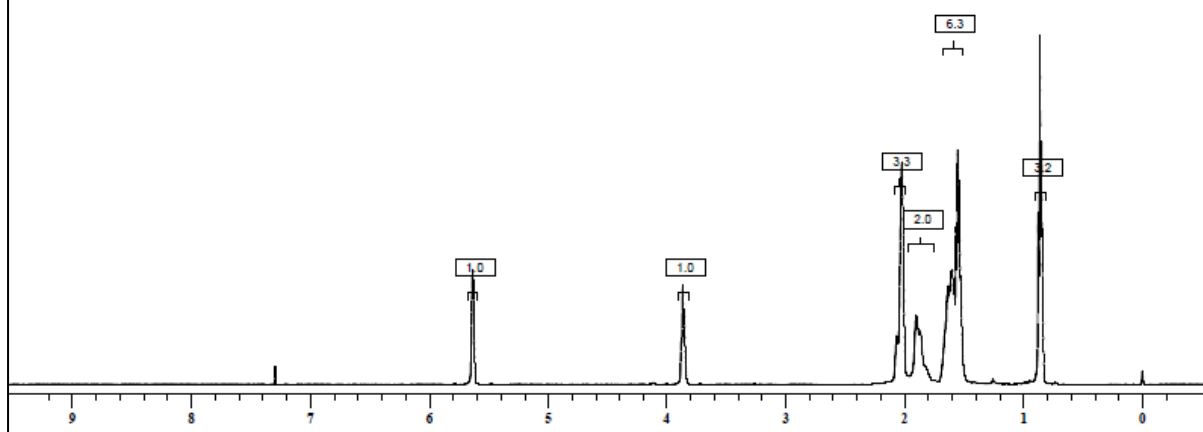
$^{13}\text{C}$  NMR spectrum of **4ae** ( $\text{CDCl}_3$ , 125 MHz)



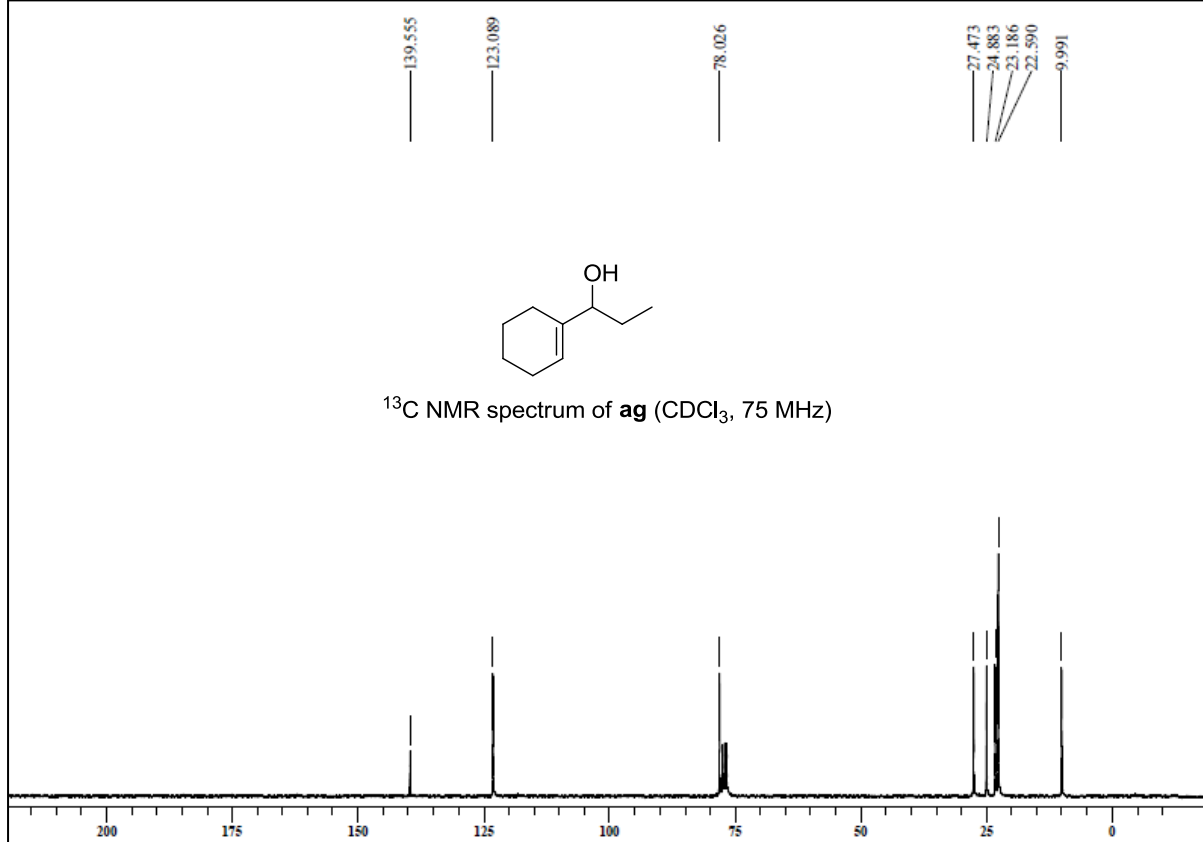


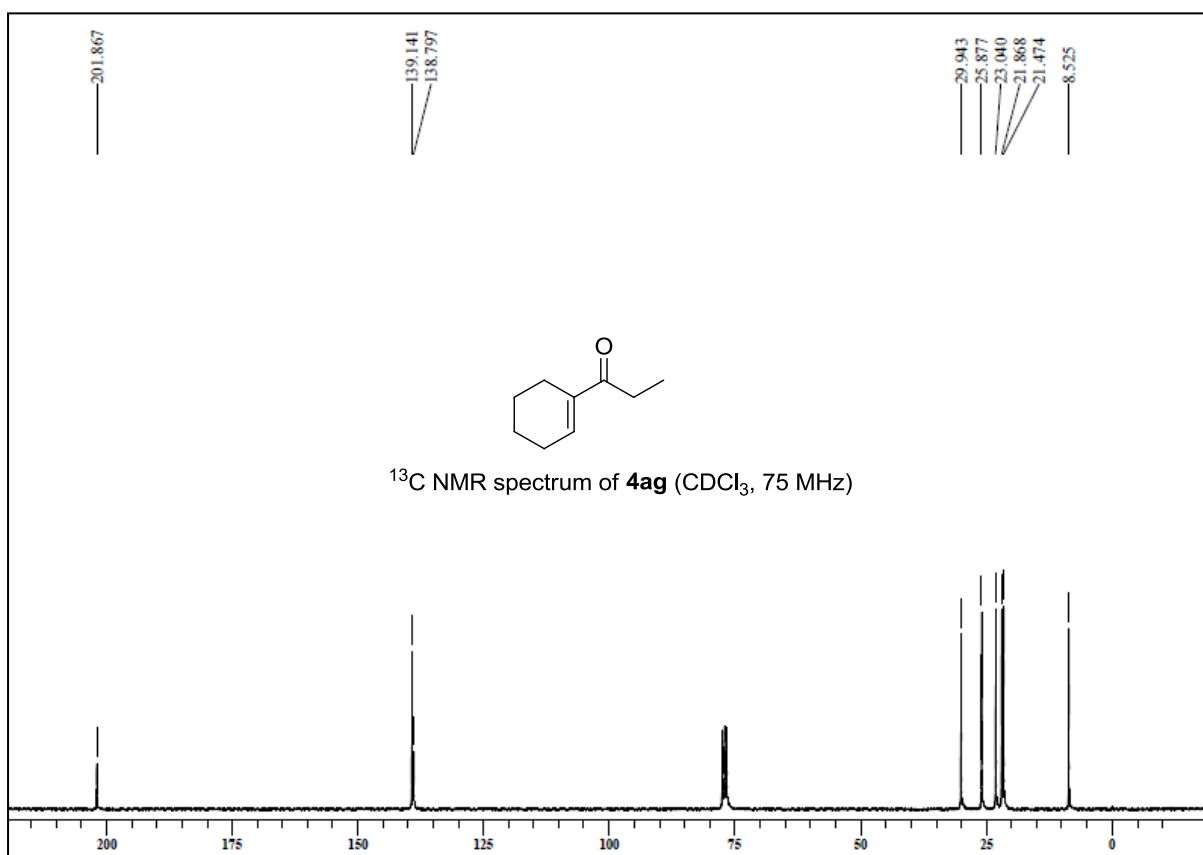
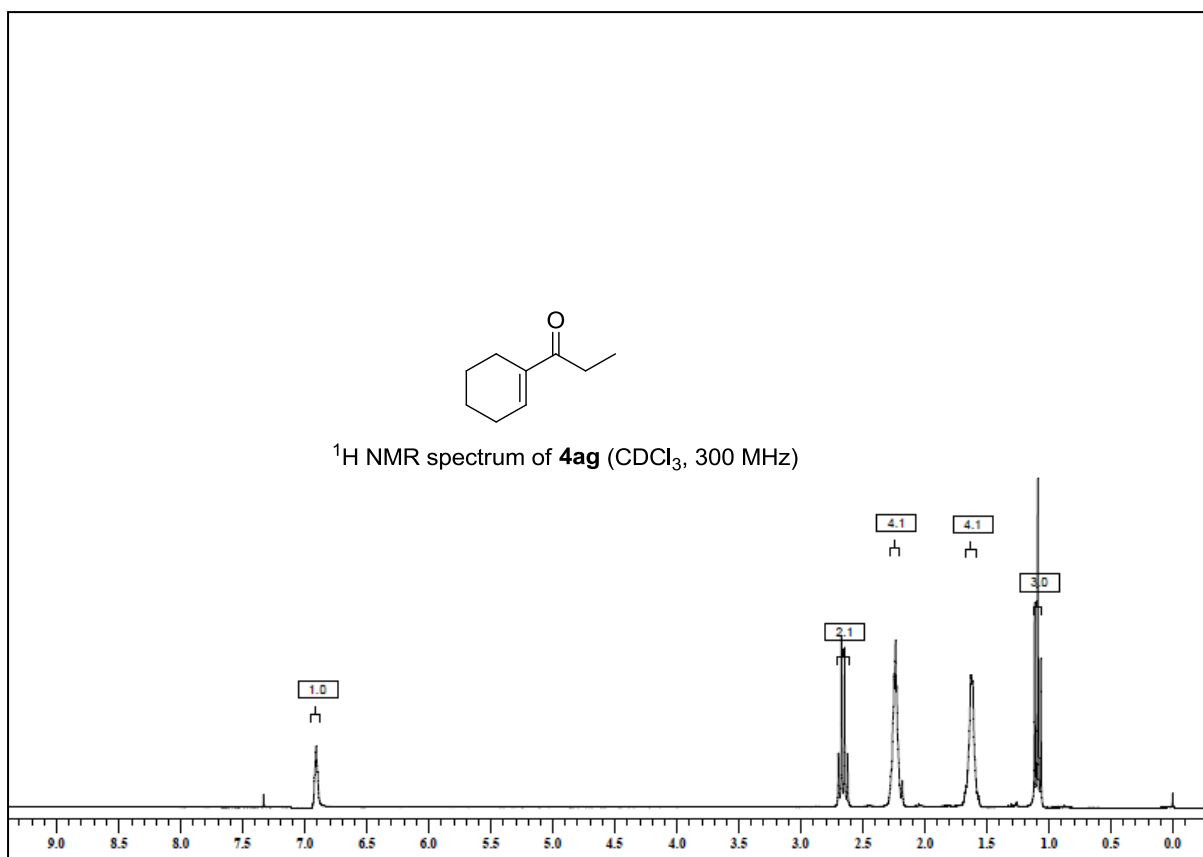


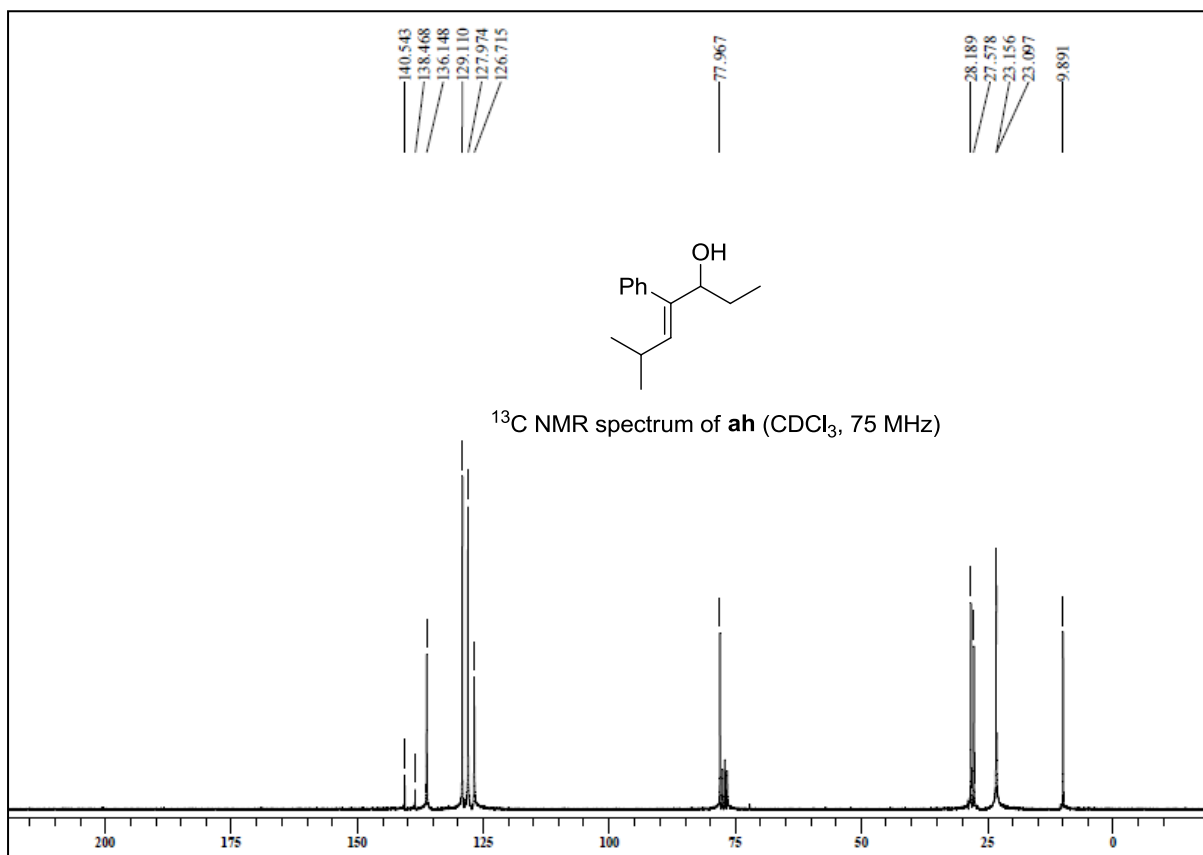
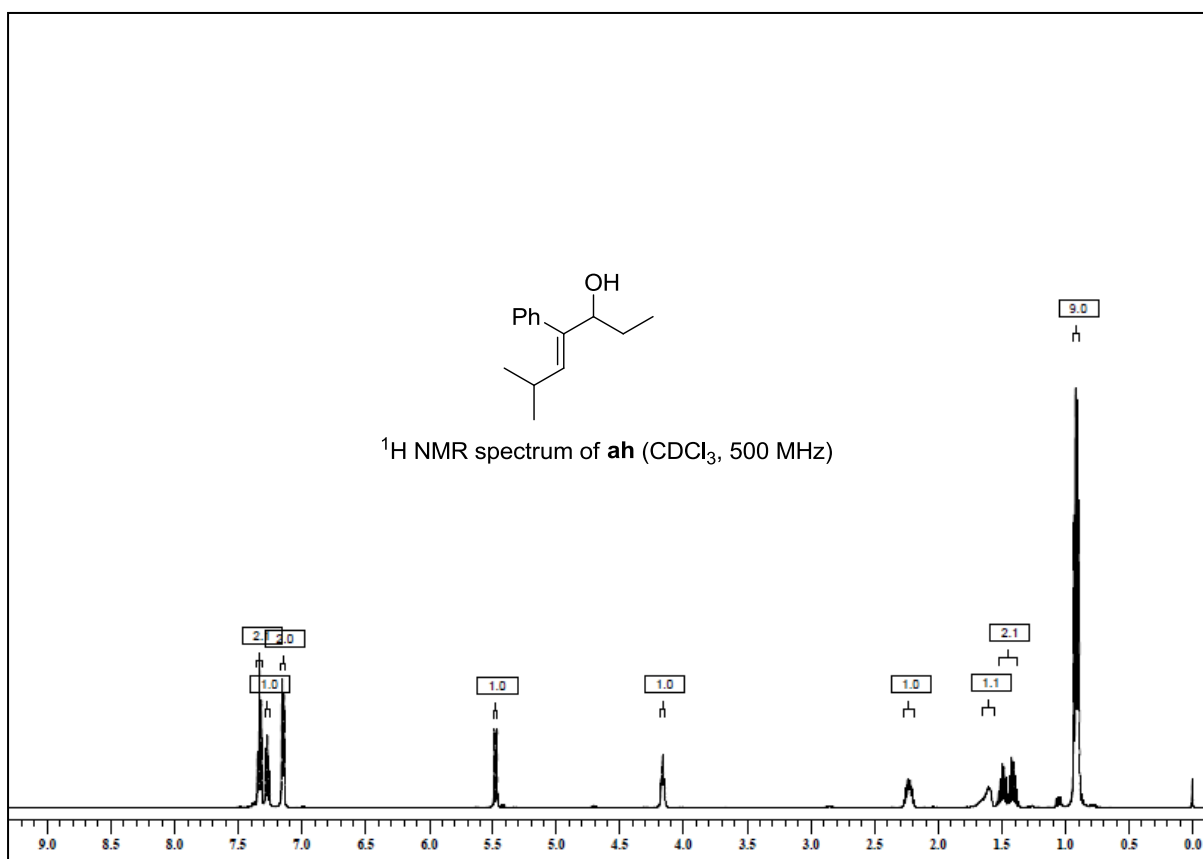
$^1\text{H}$  NMR spectrum of **ag** ( $\text{CDCl}_3$ , 500 MHz)

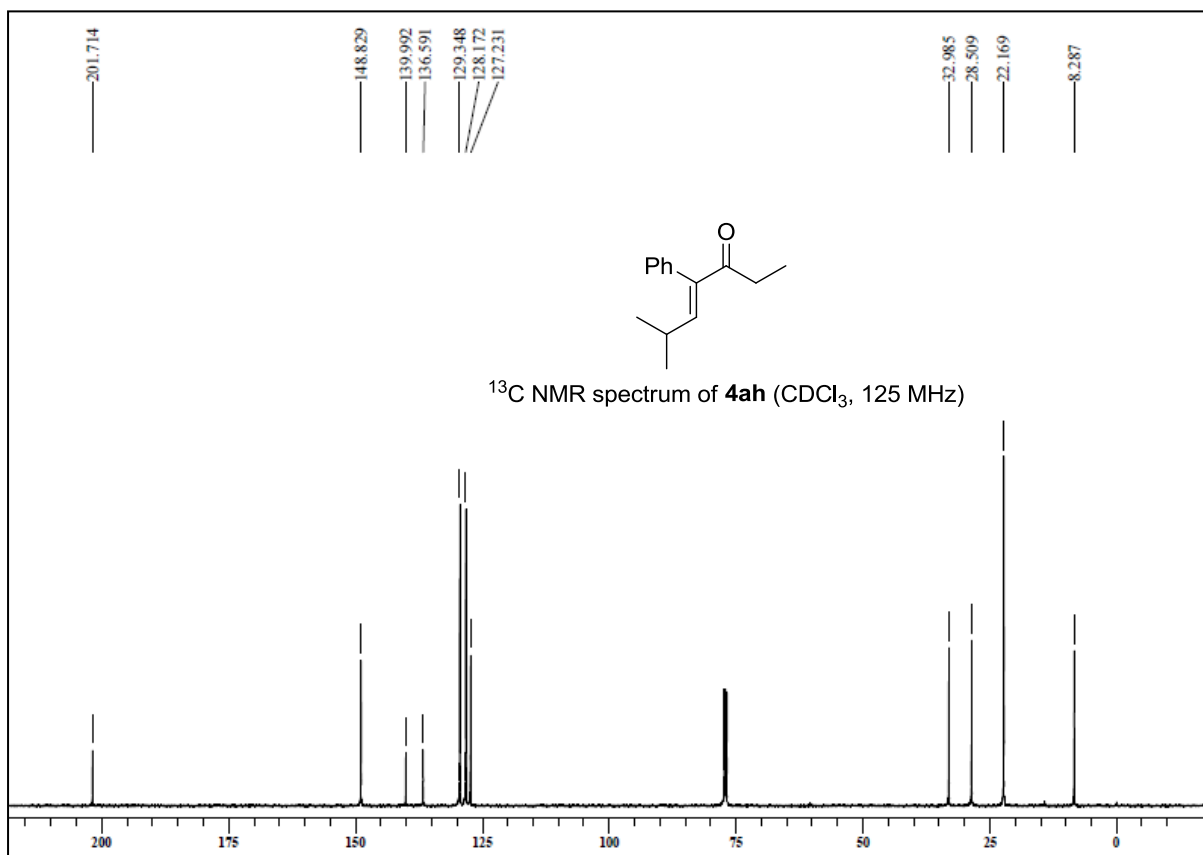
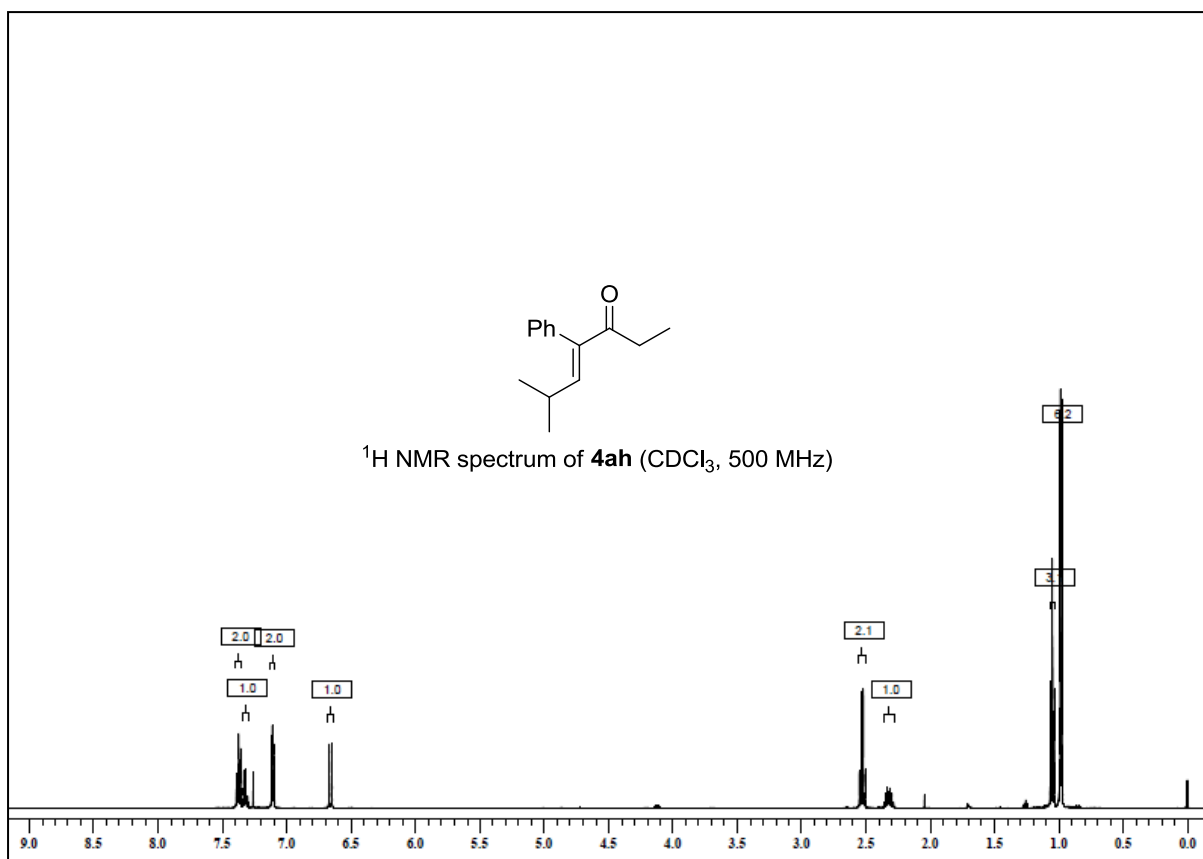


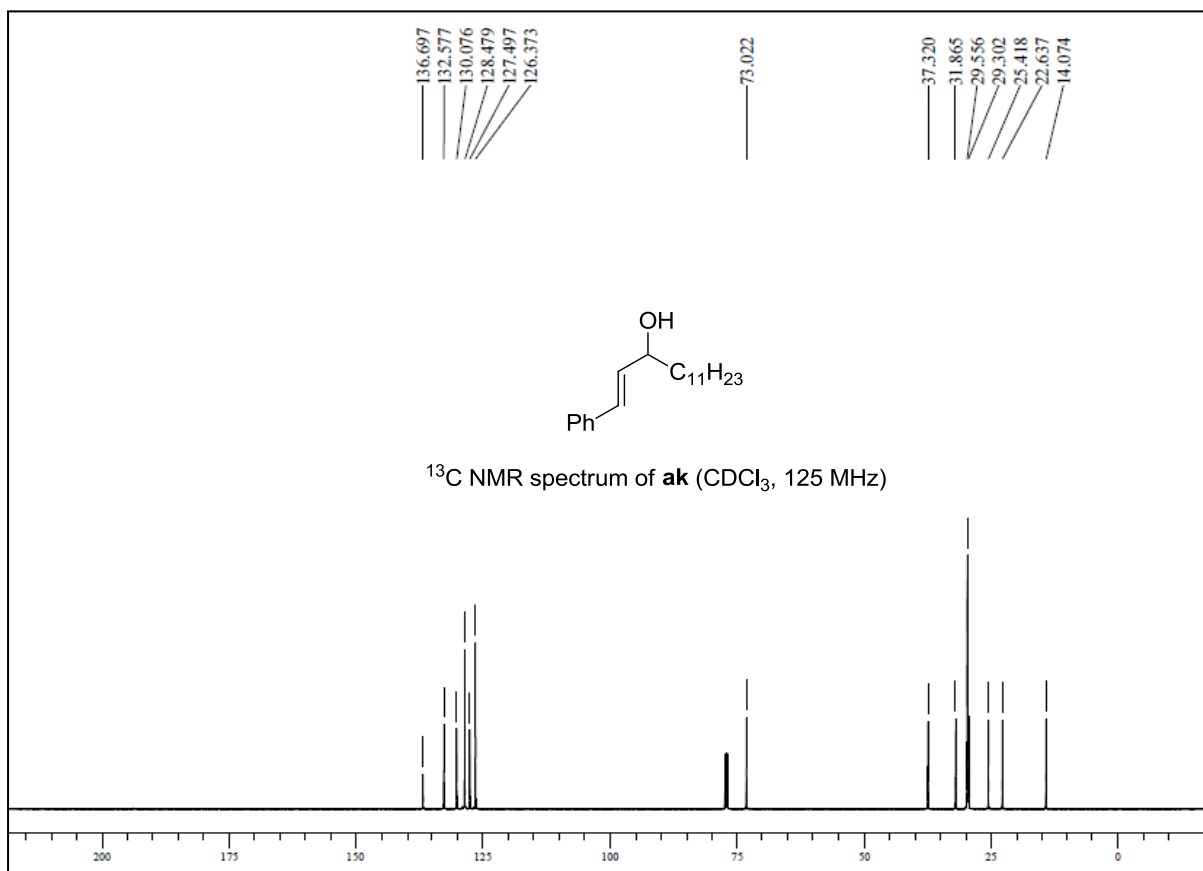
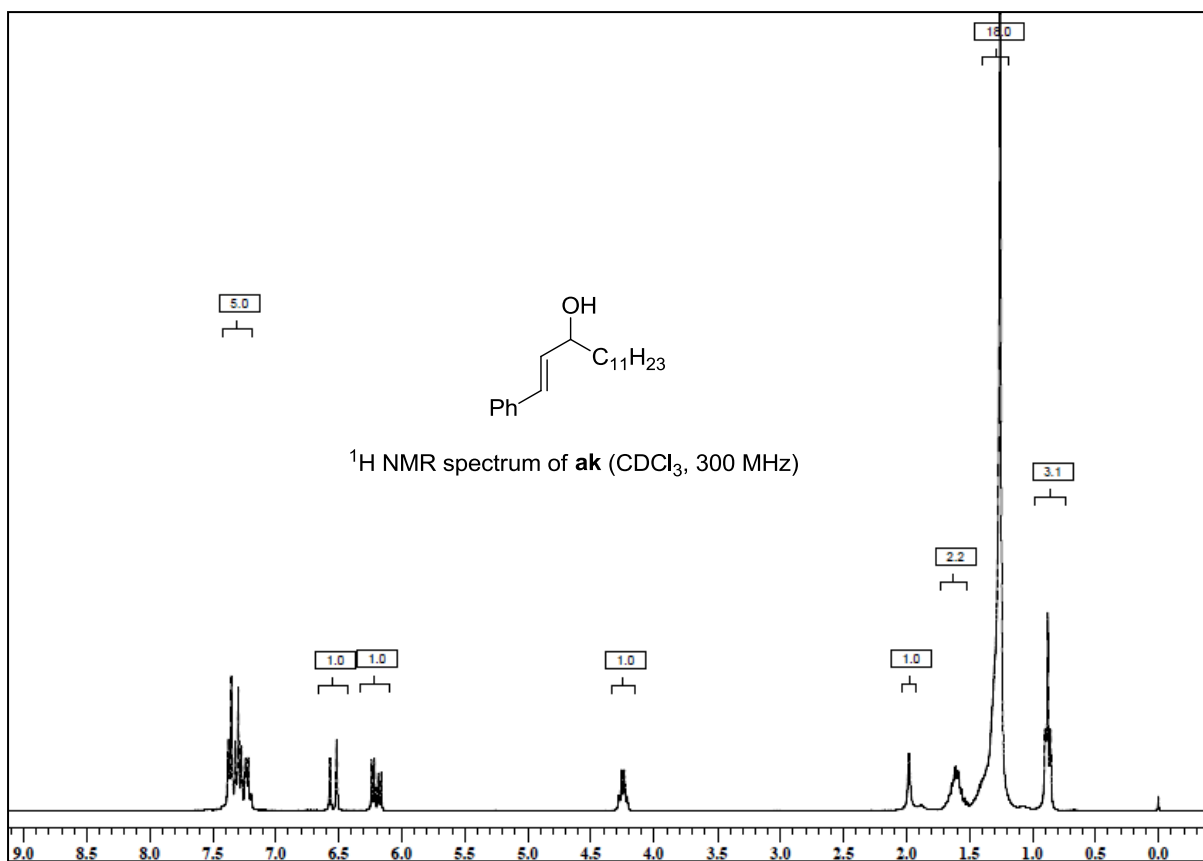
$^{13}\text{C}$  NMR spectrum of **ag** ( $\text{CDCl}_3$ , 75 MHz)

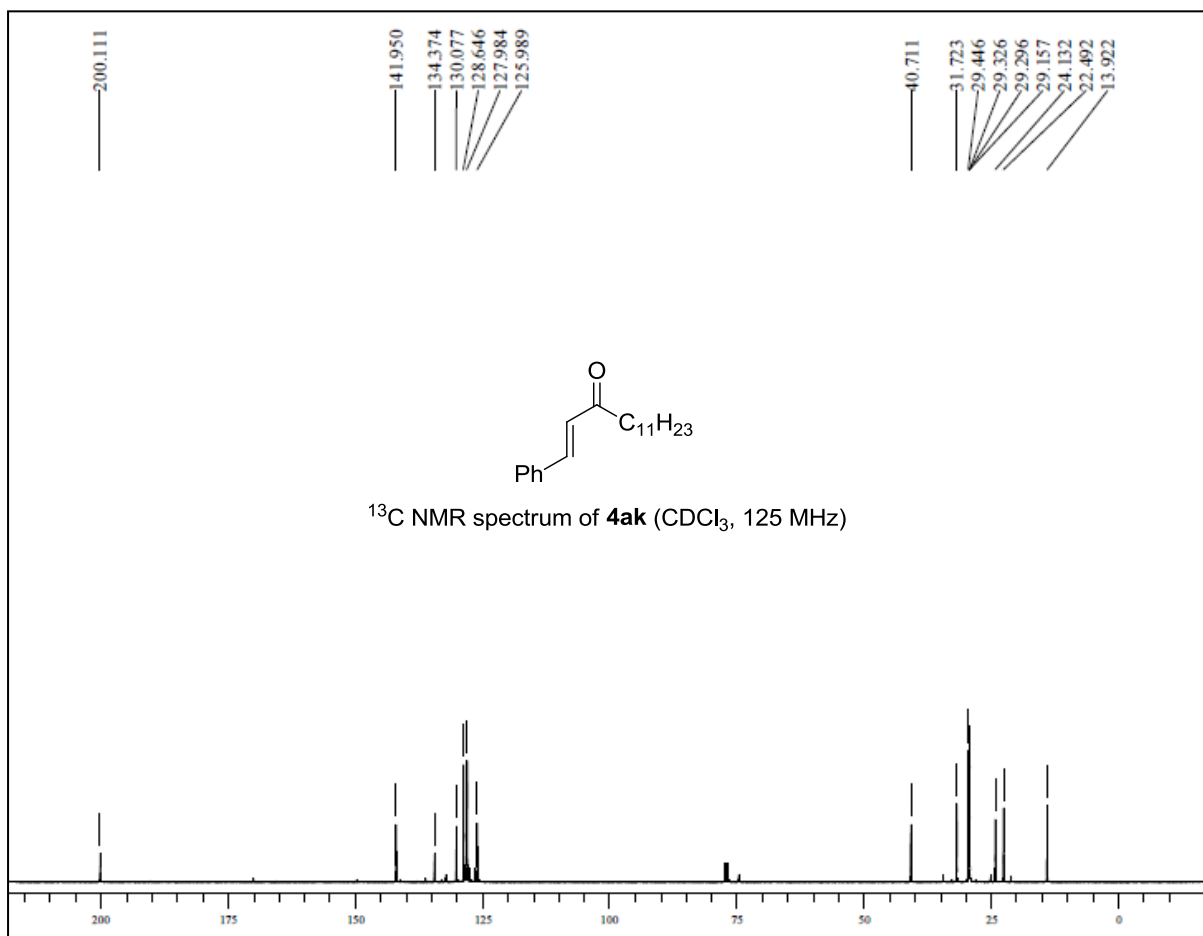
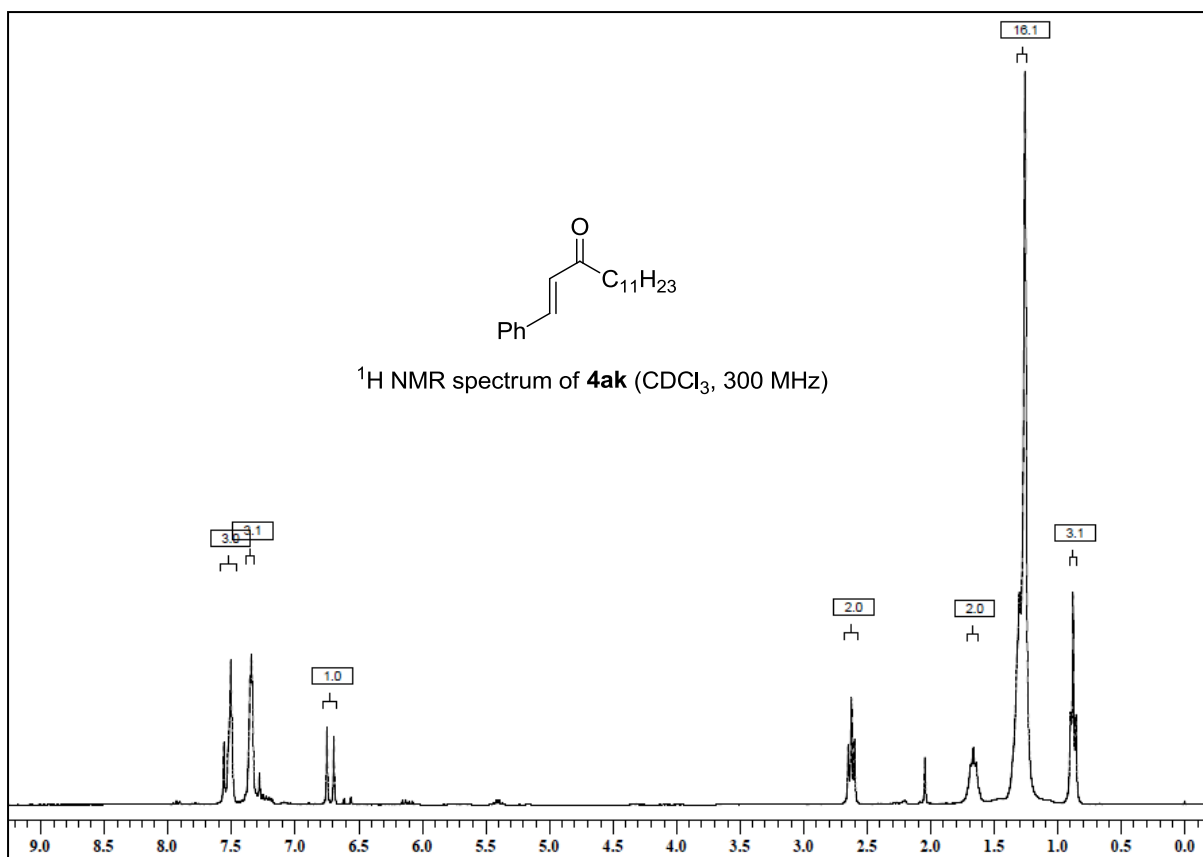


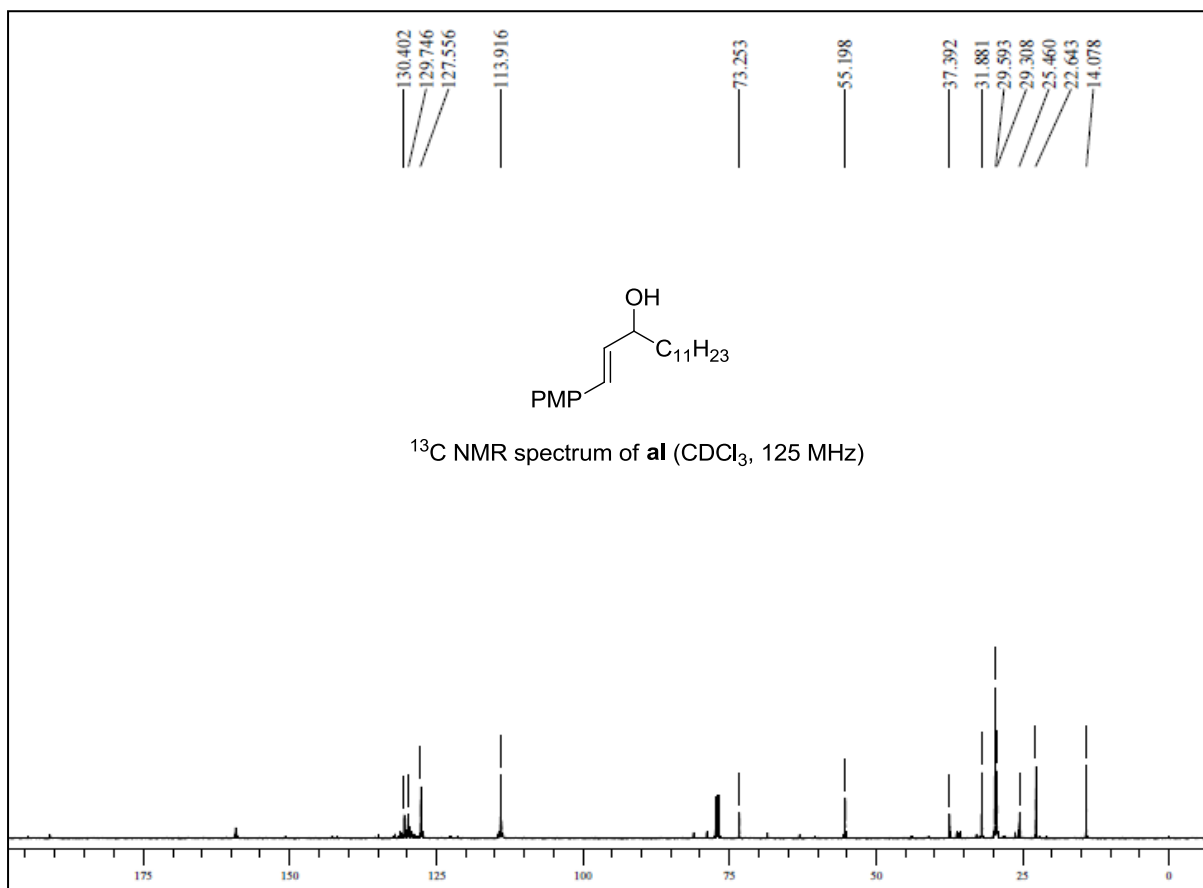
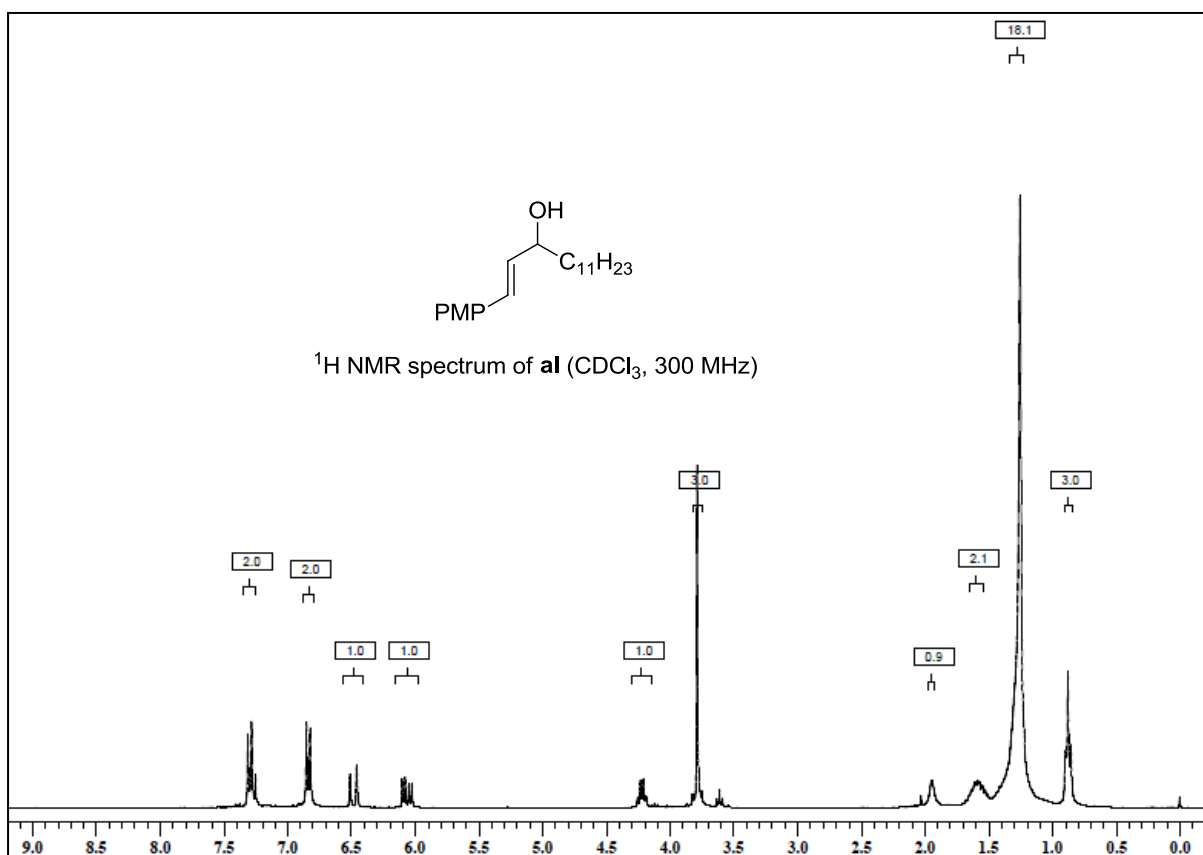


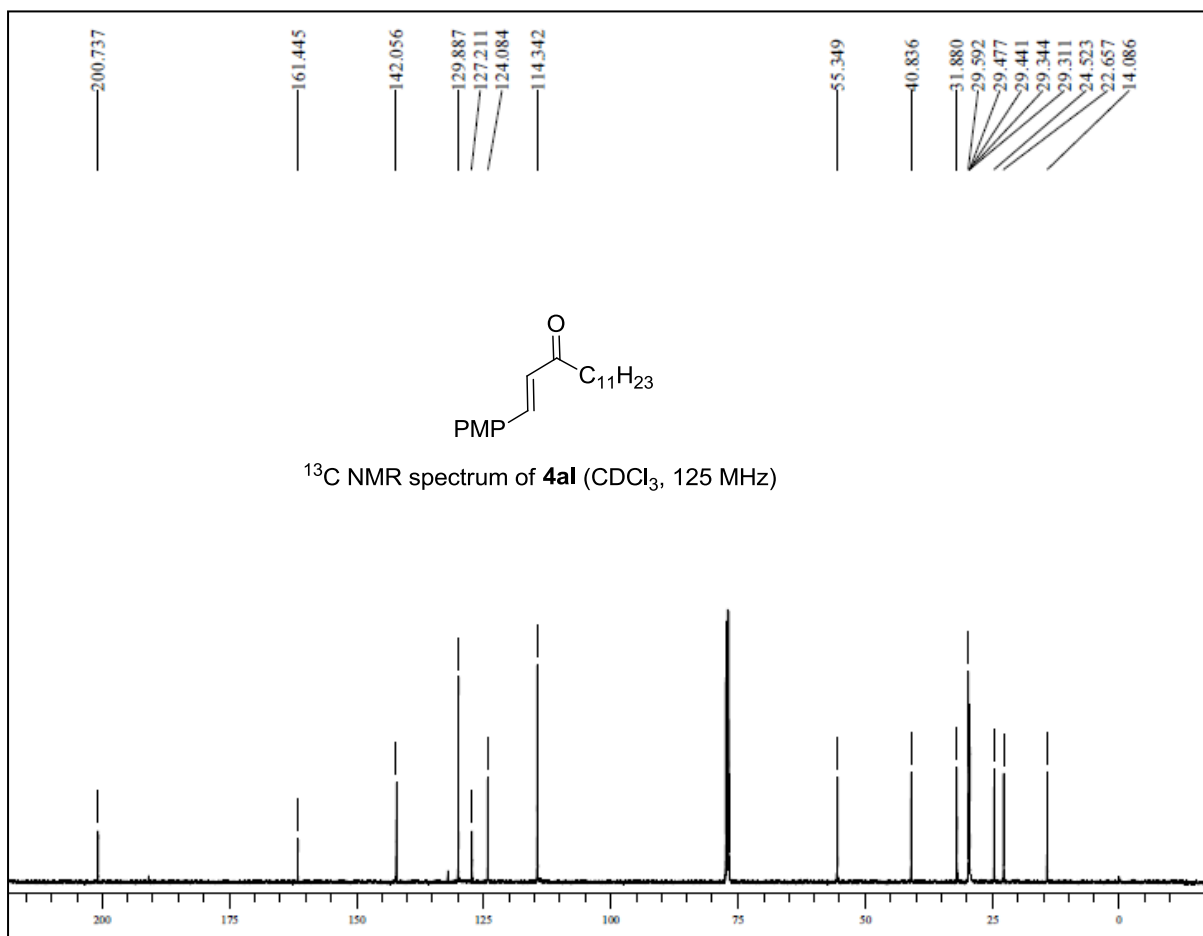
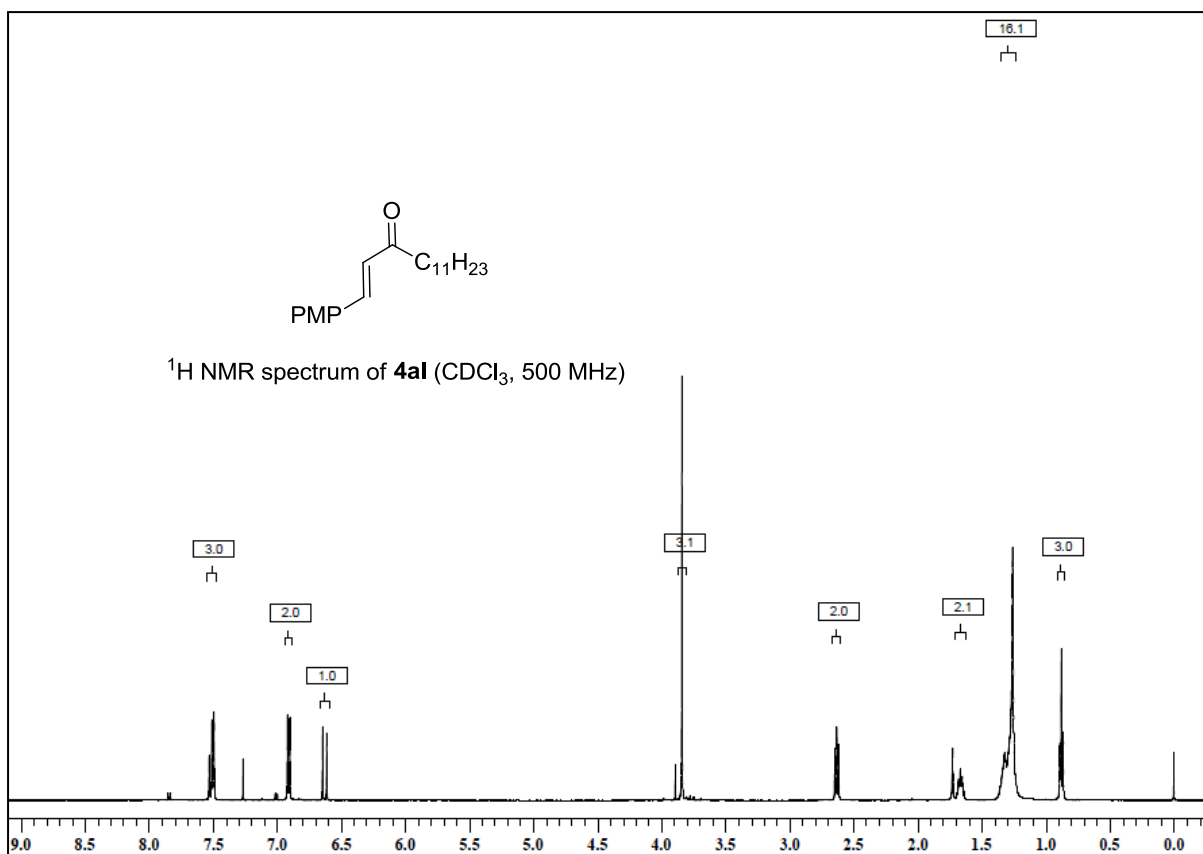




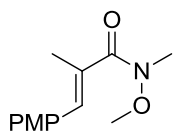




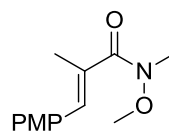
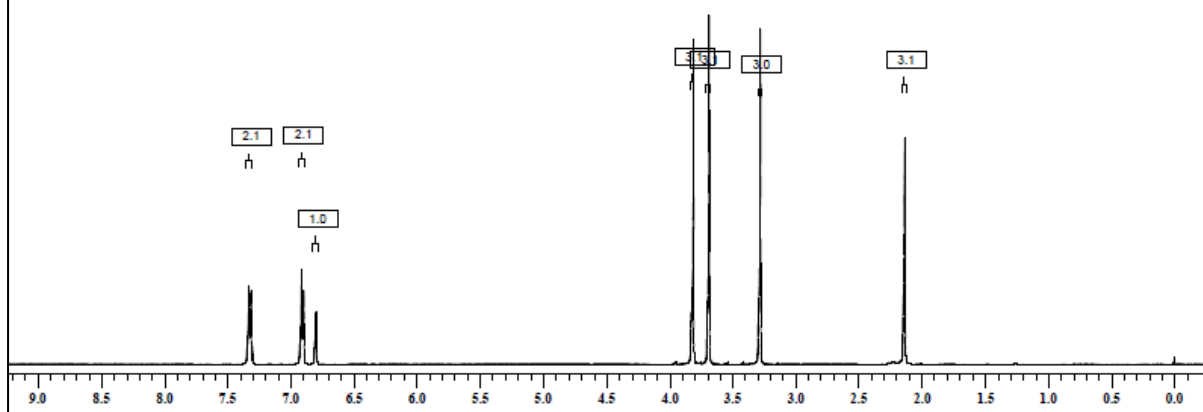




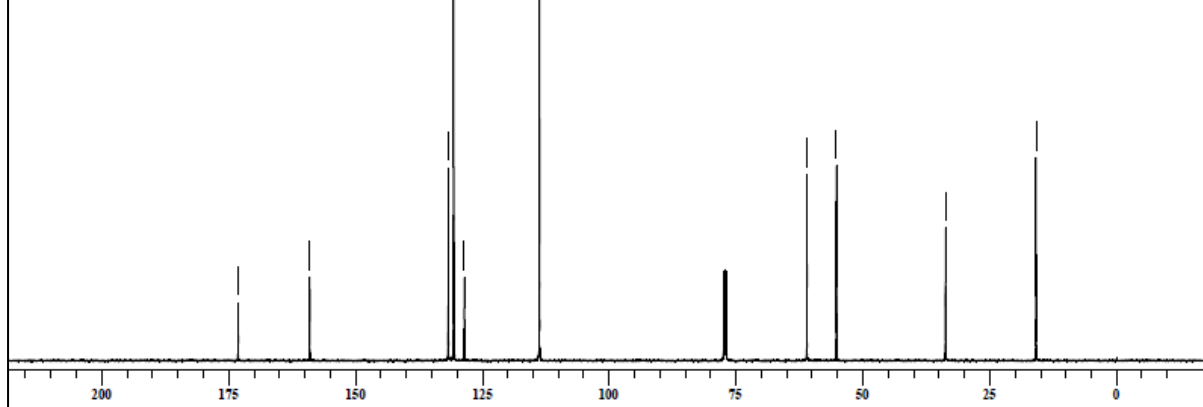


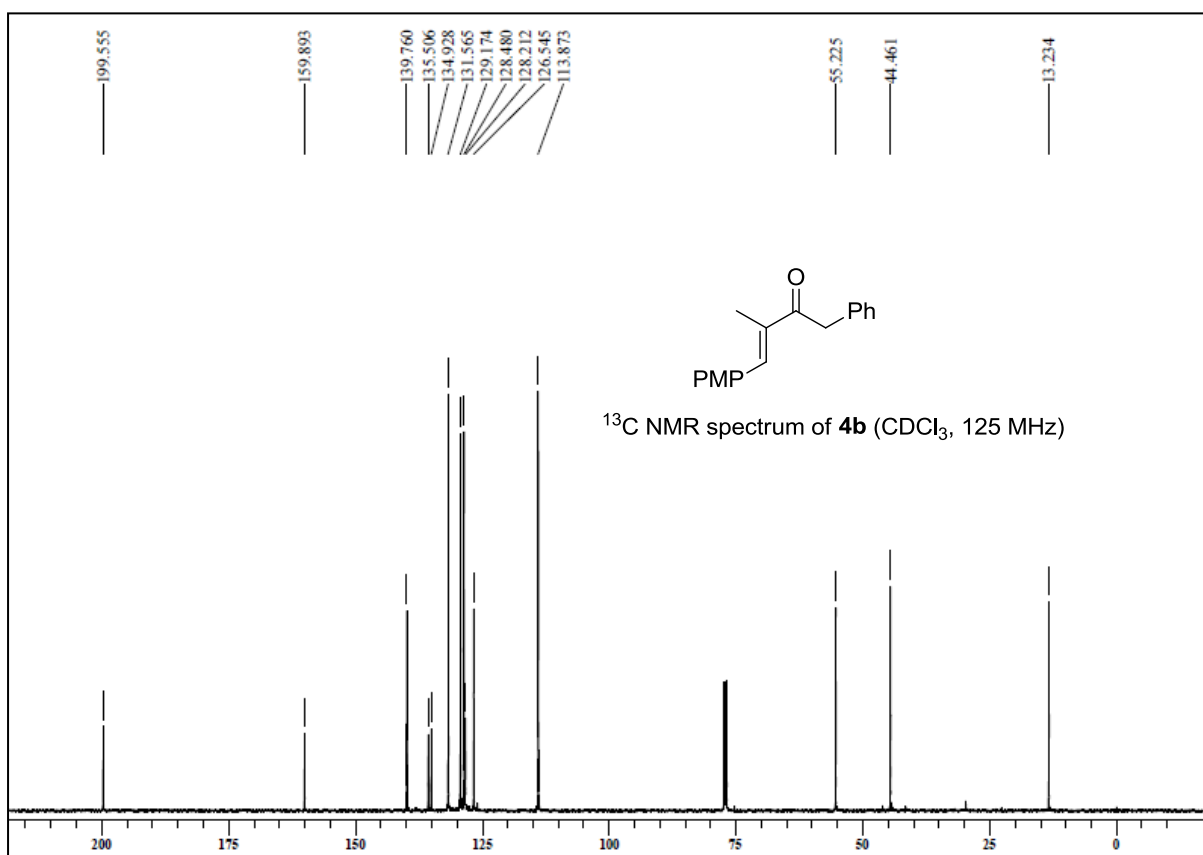
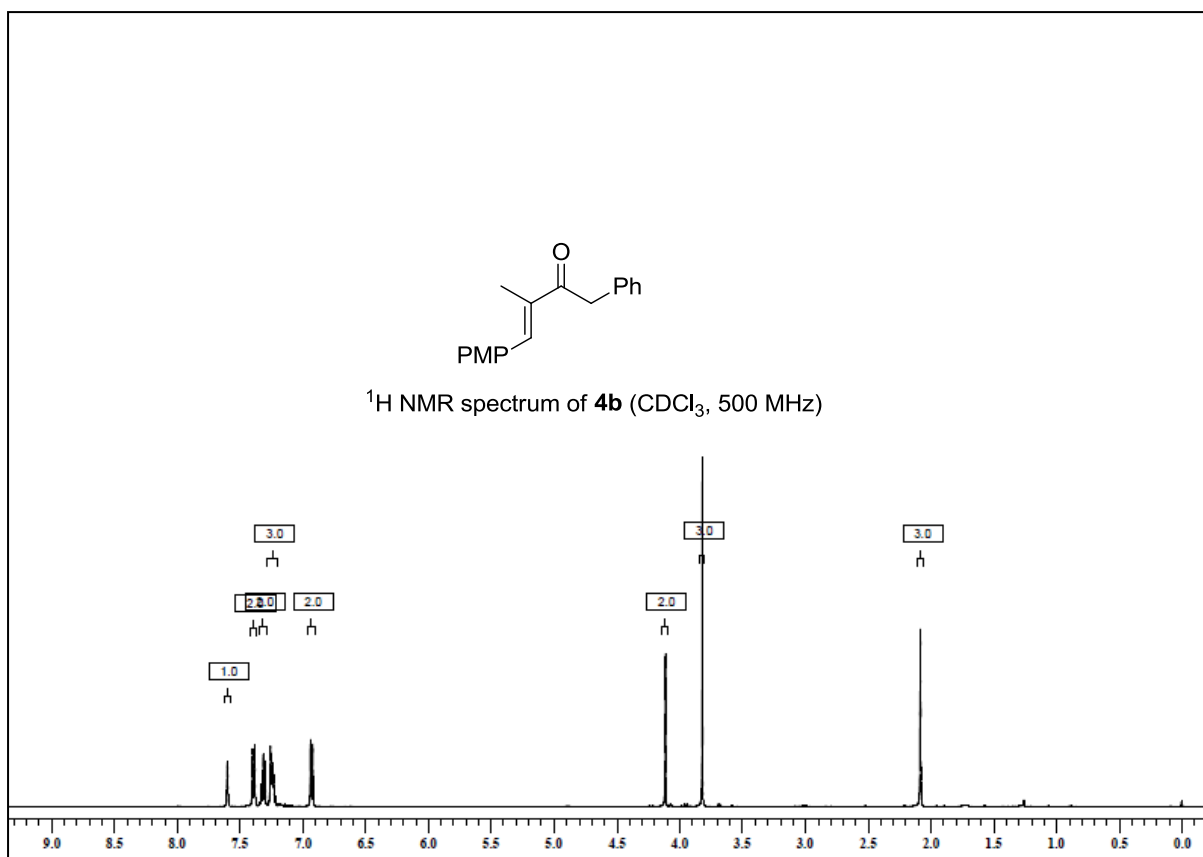


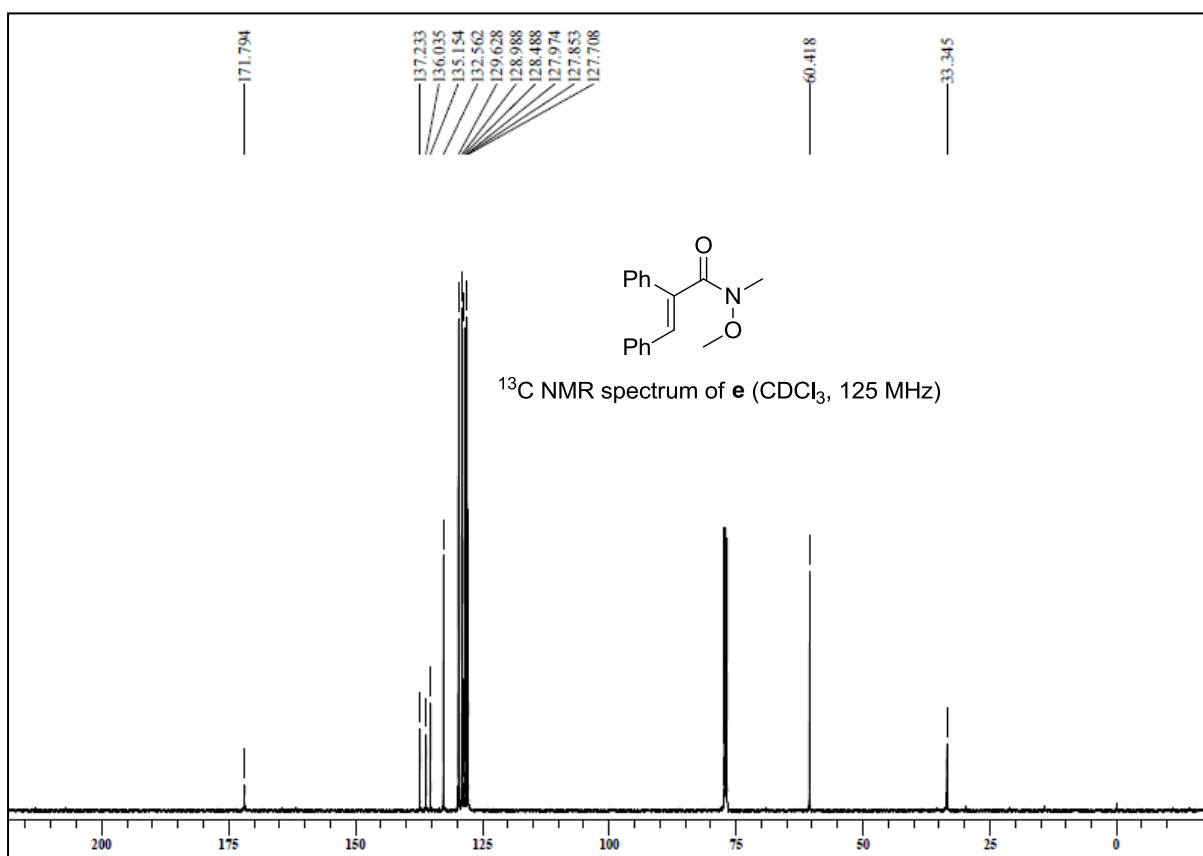
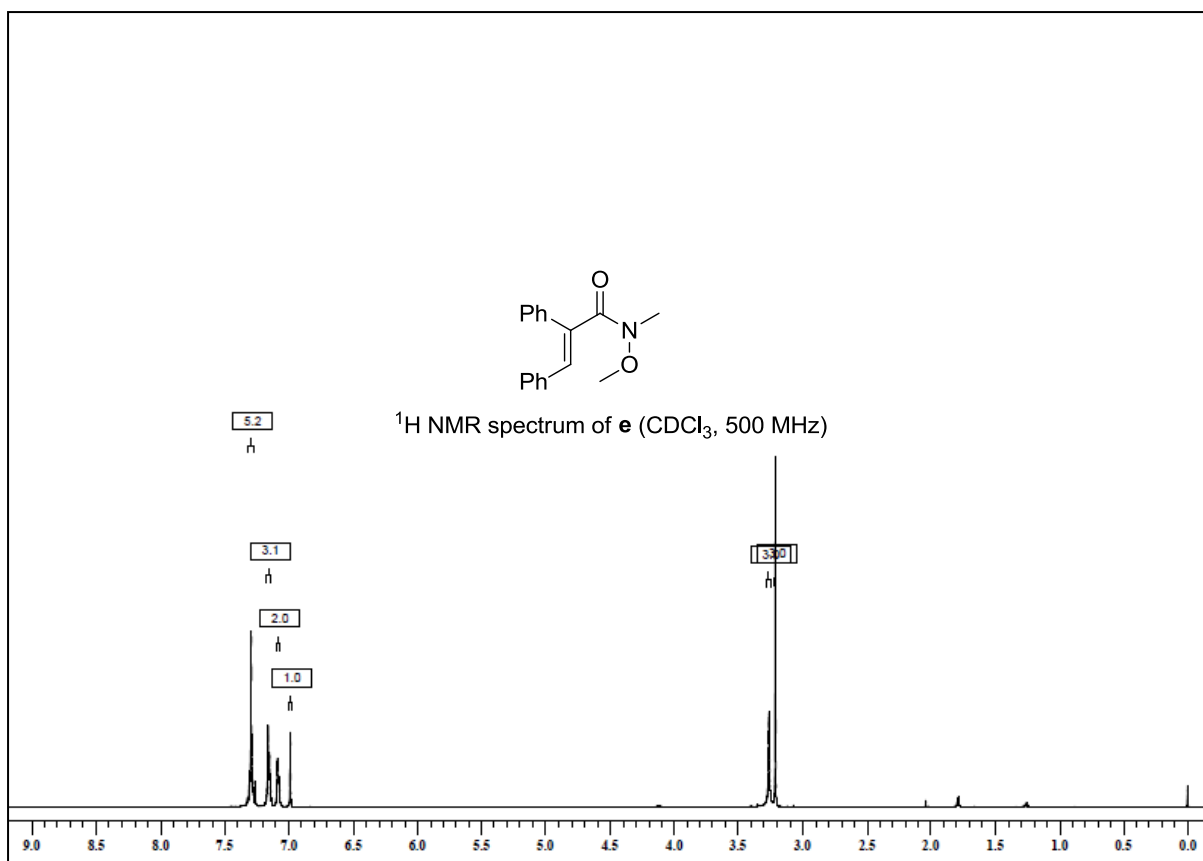
$^1\text{H}$  NMR spectrum of **b** ( $\text{CDCl}_3$ , 500 MHz)

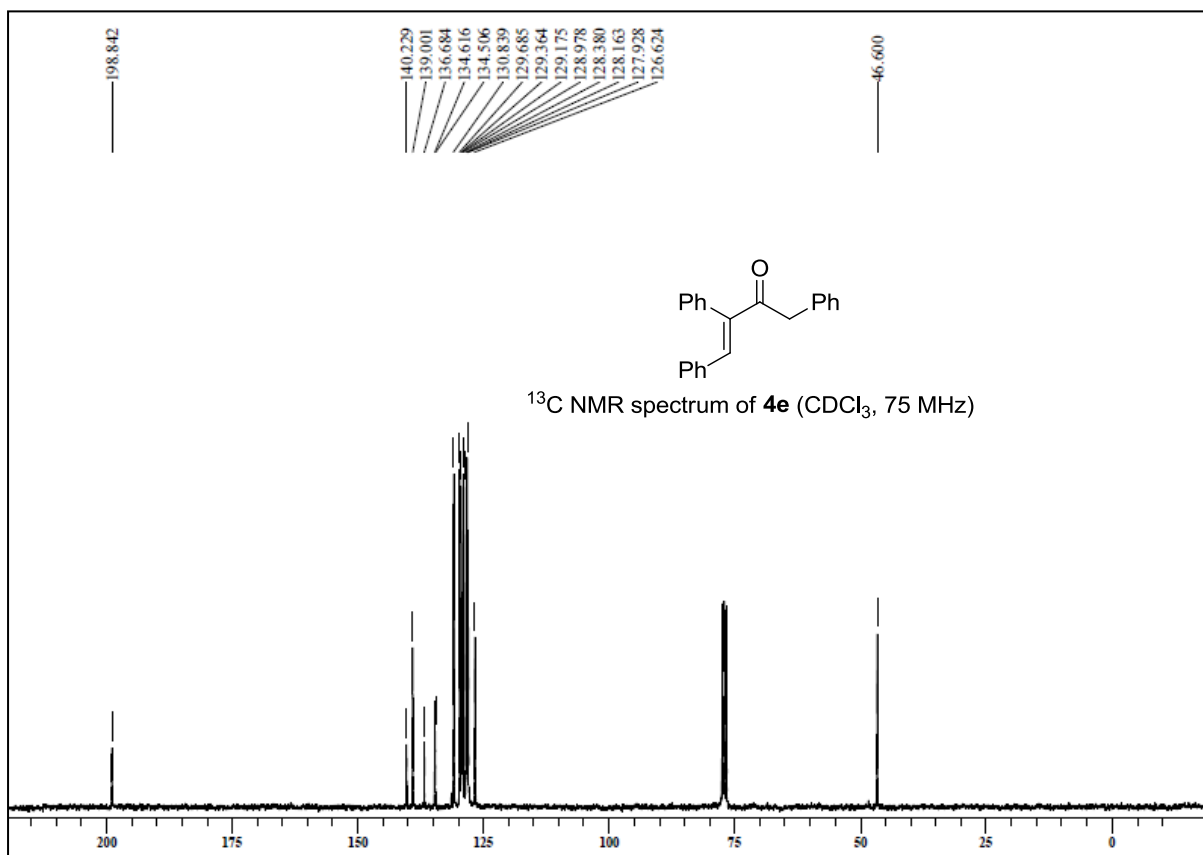
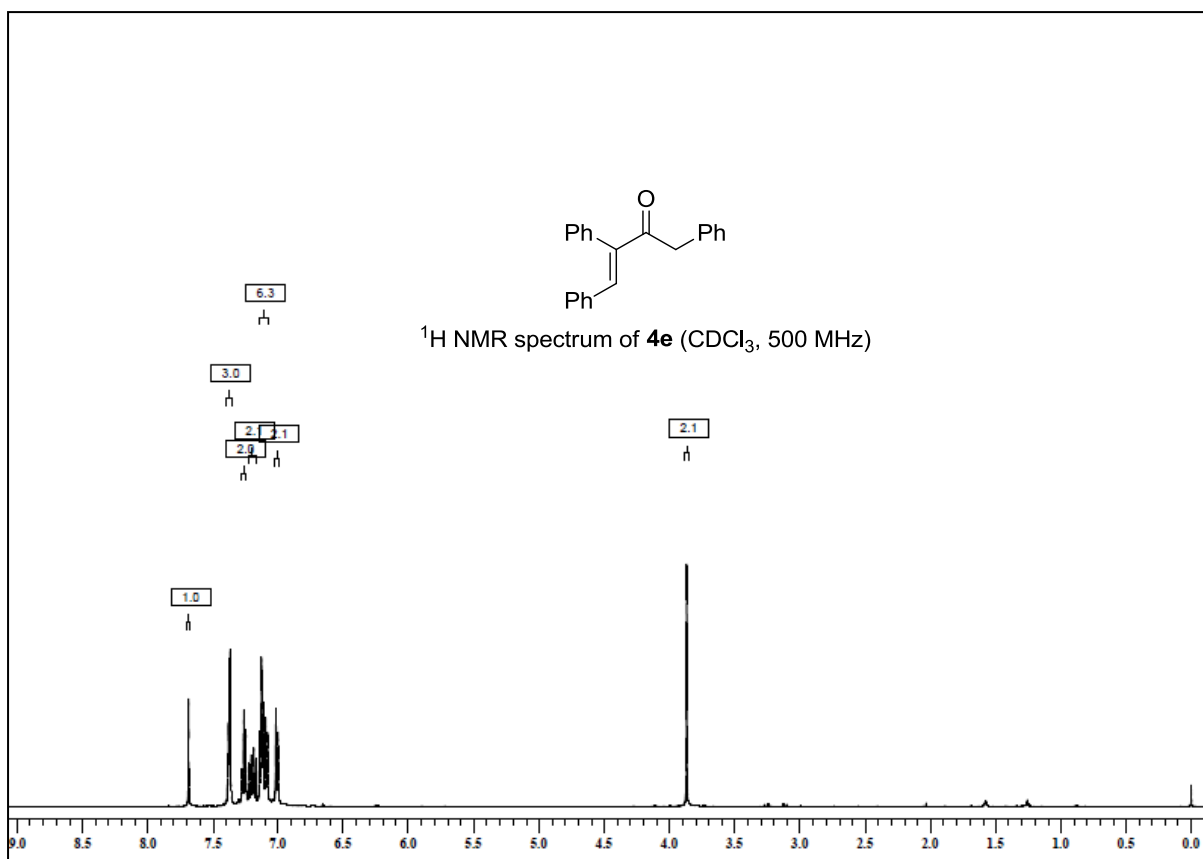


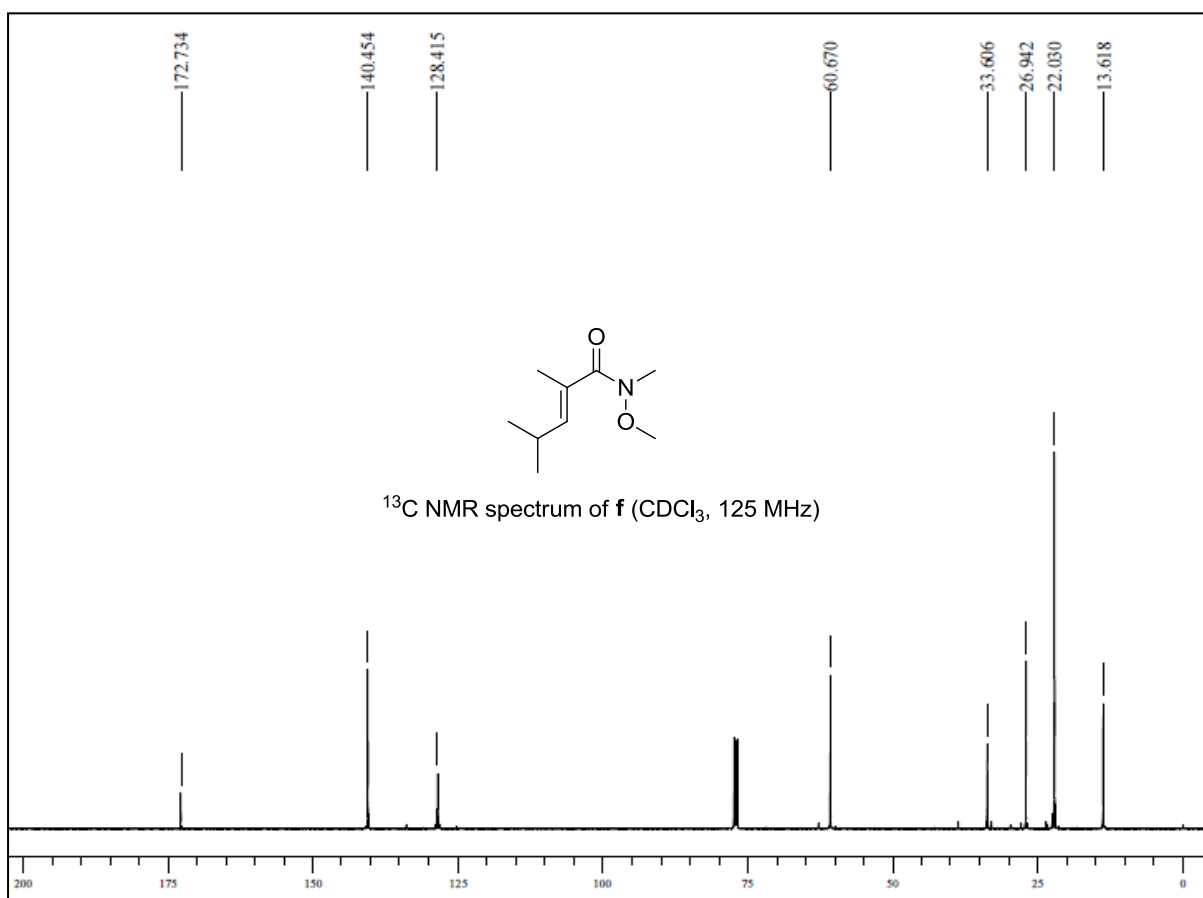
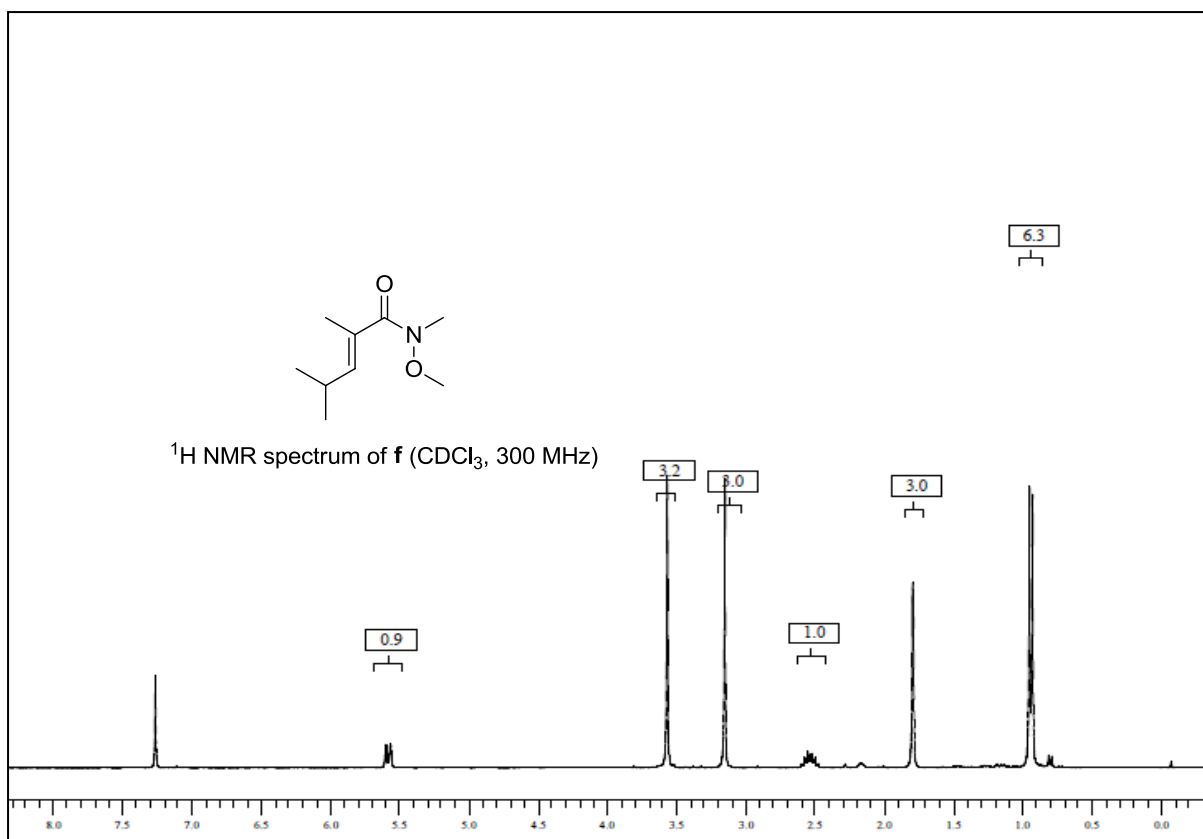
$^{13}\text{C}$  NMR spectrum of **b** ( $\text{CDCl}_3$ , 125 MHz)

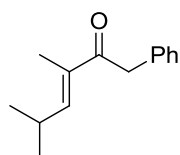




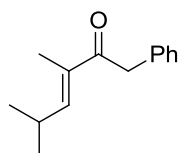
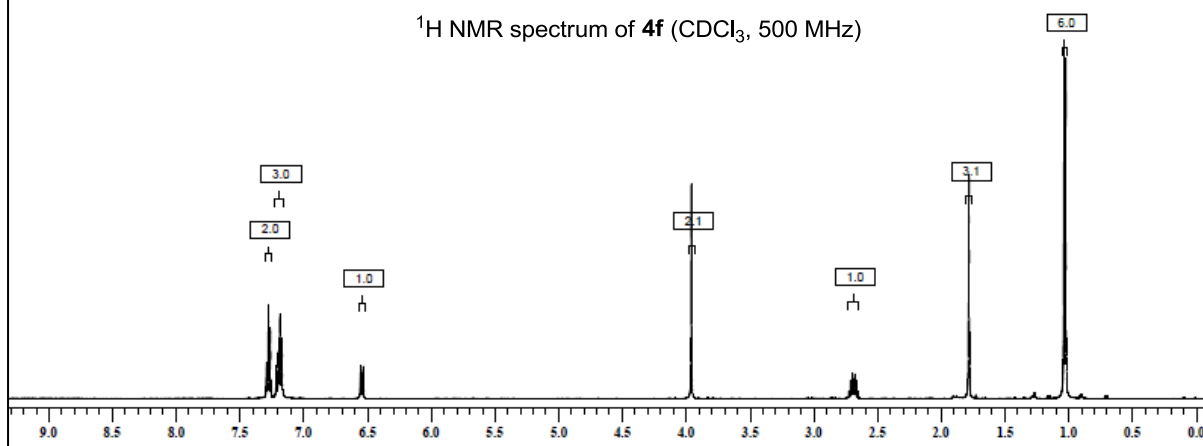




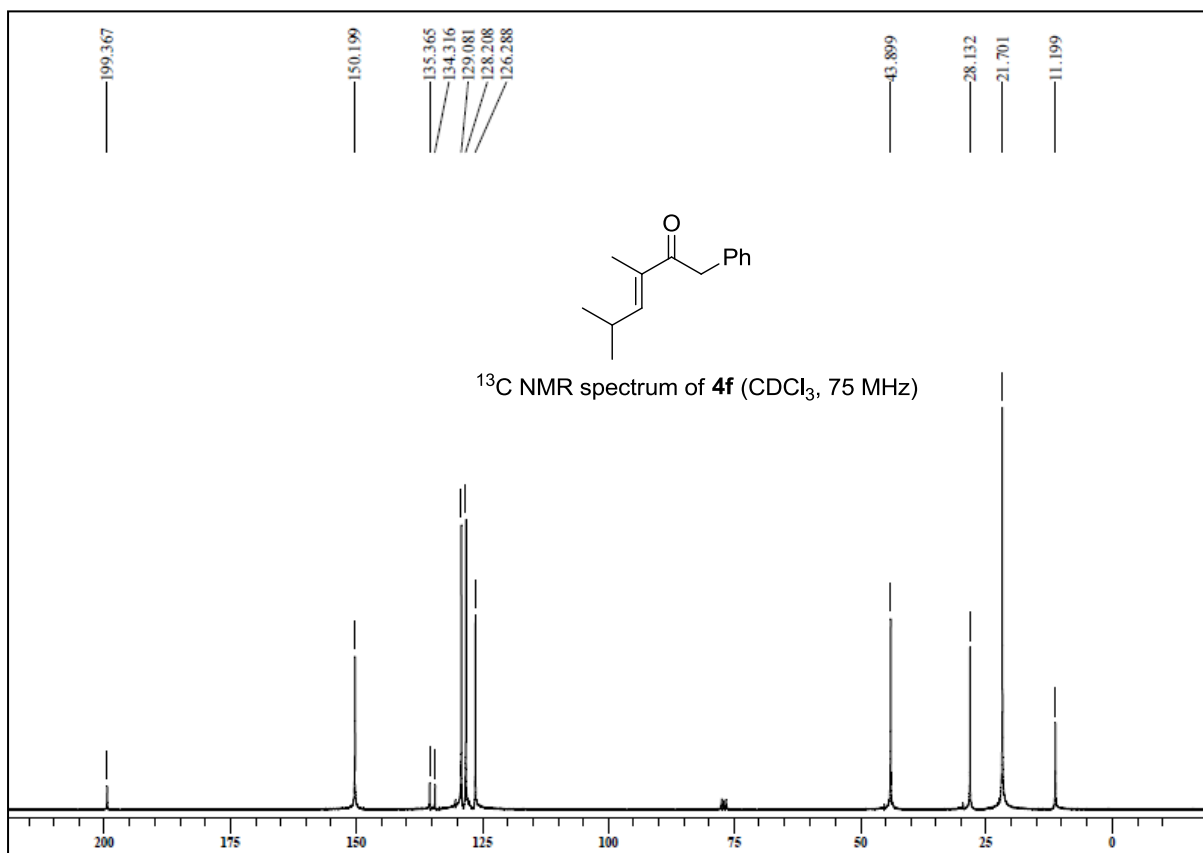


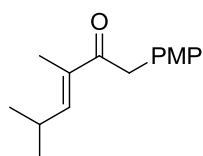


$^1\text{H}$  NMR spectrum of **4f** ( $\text{CDCl}_3$ , 500 MHz)

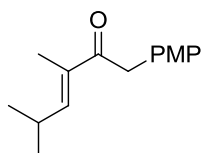
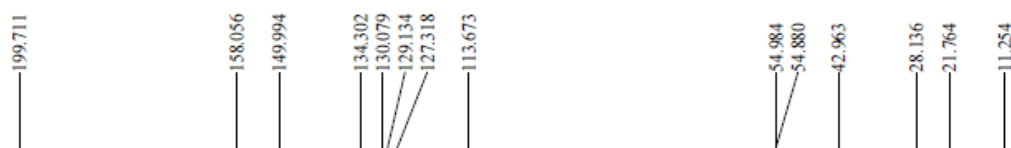
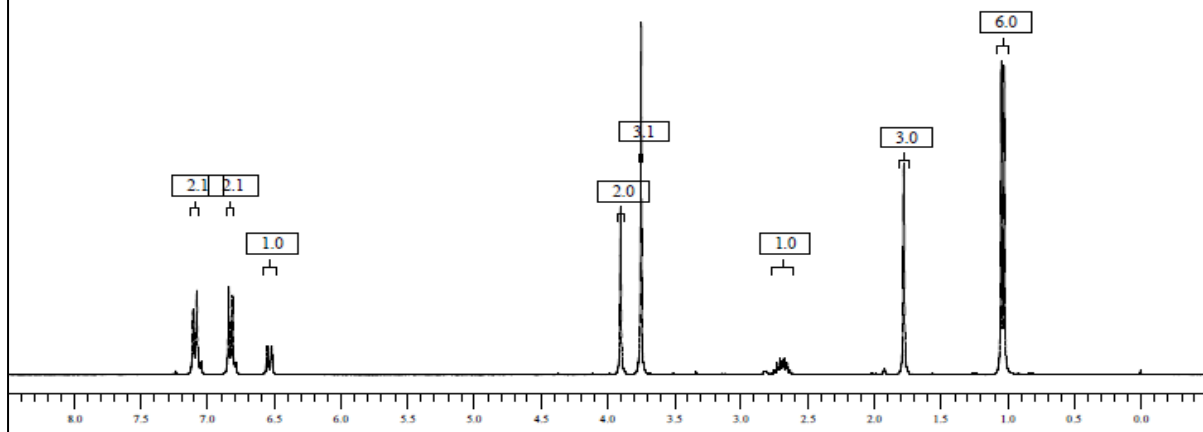


$^{13}\text{C}$  NMR spectrum of **4f** ( $\text{CDCl}_3$ , 75 MHz)

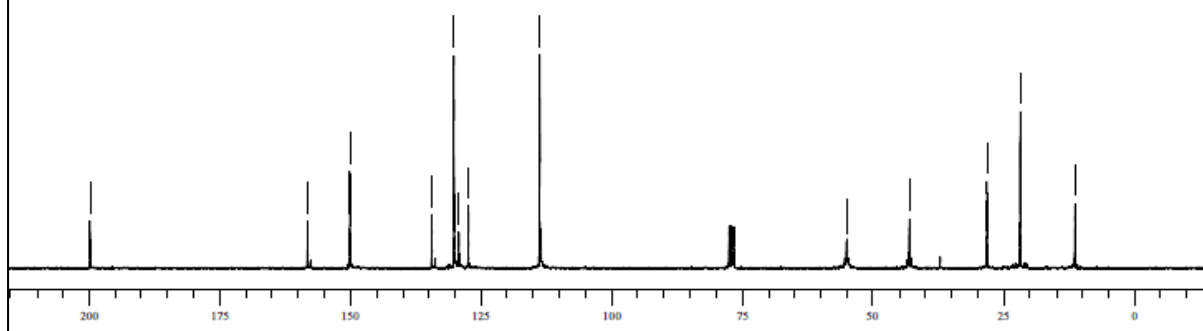


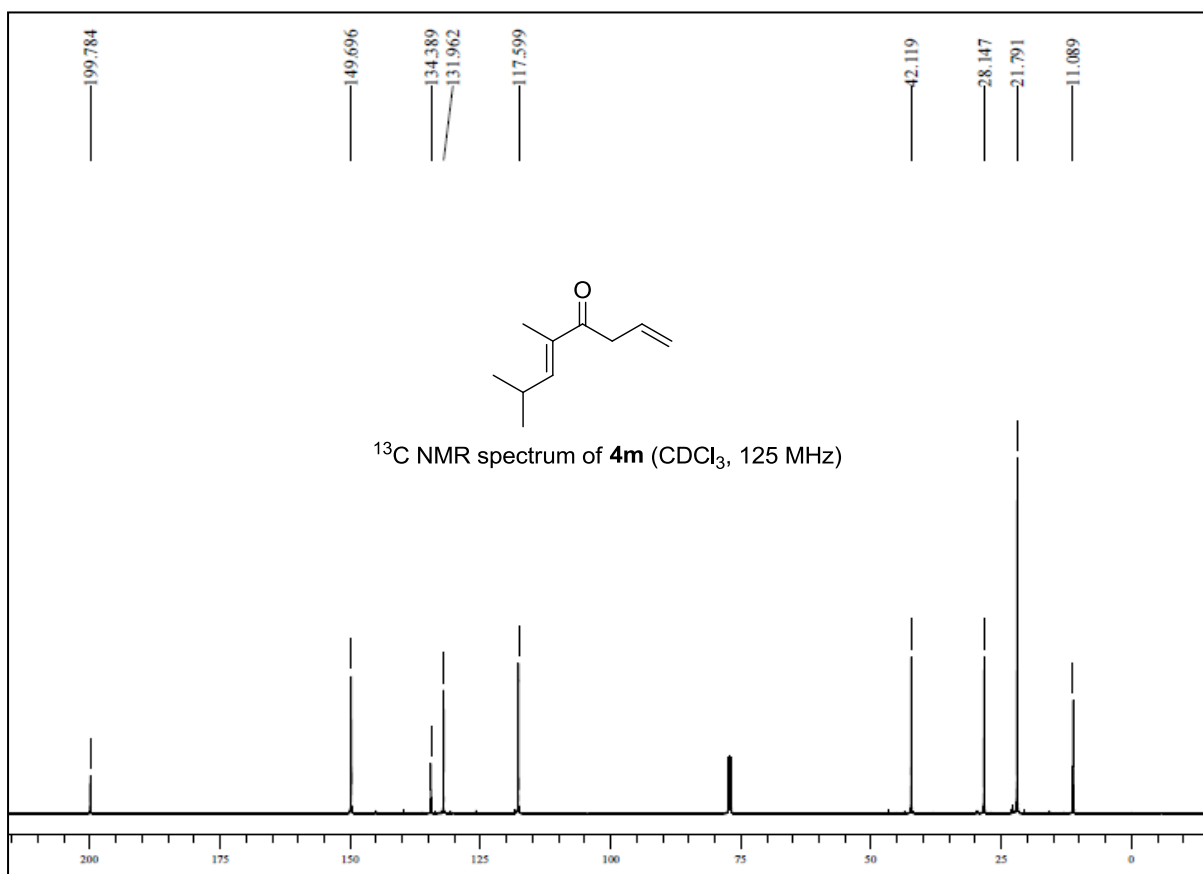
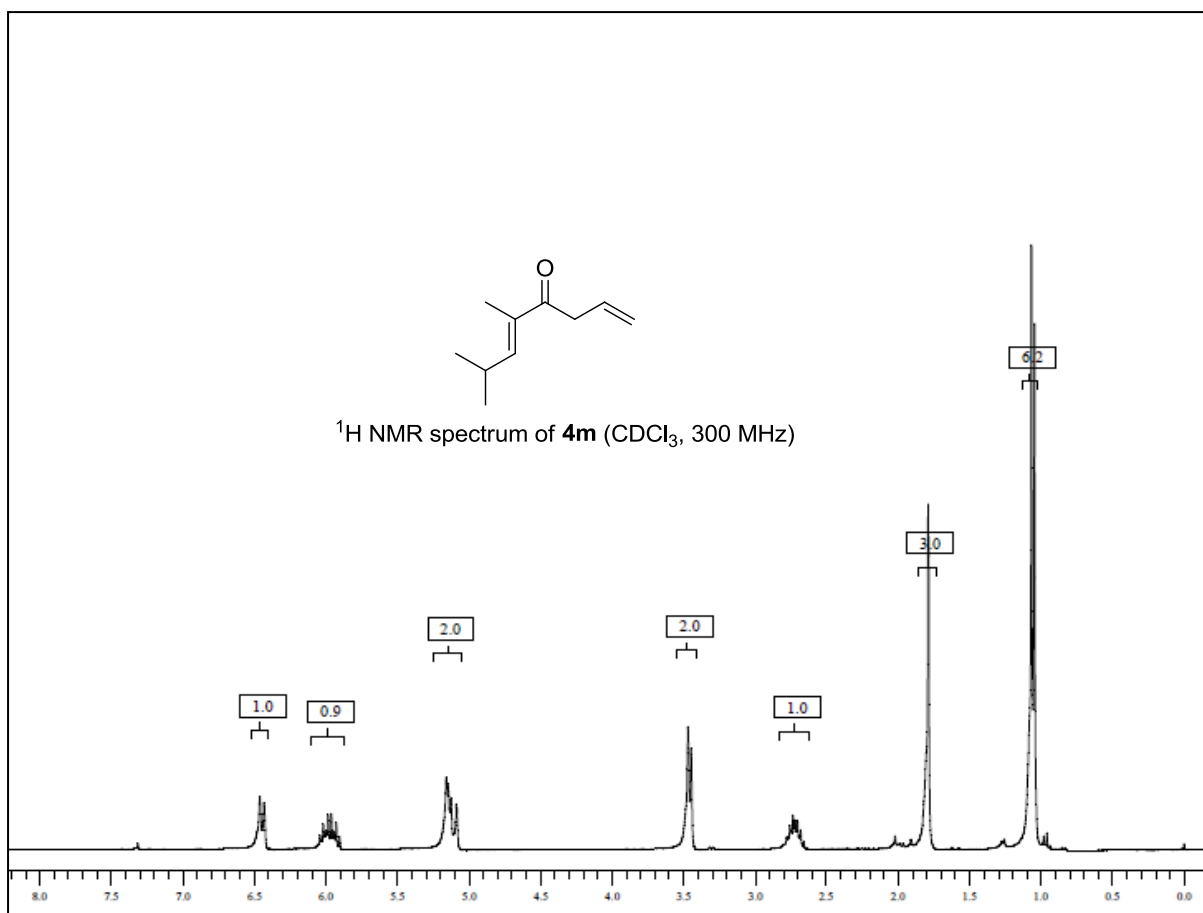


$^1\text{H}$  NMR spectrum of **4I** ( $\text{CDCl}_3$ , 300 MHz)

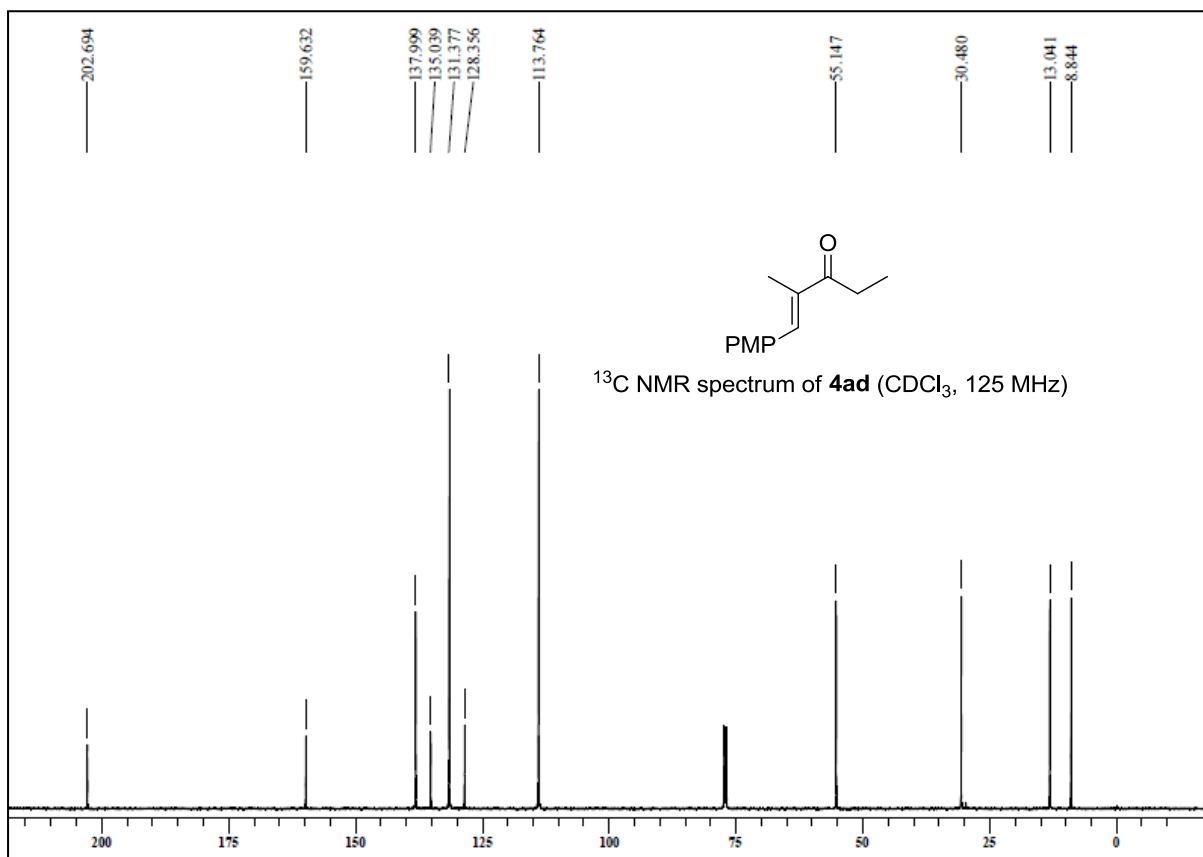
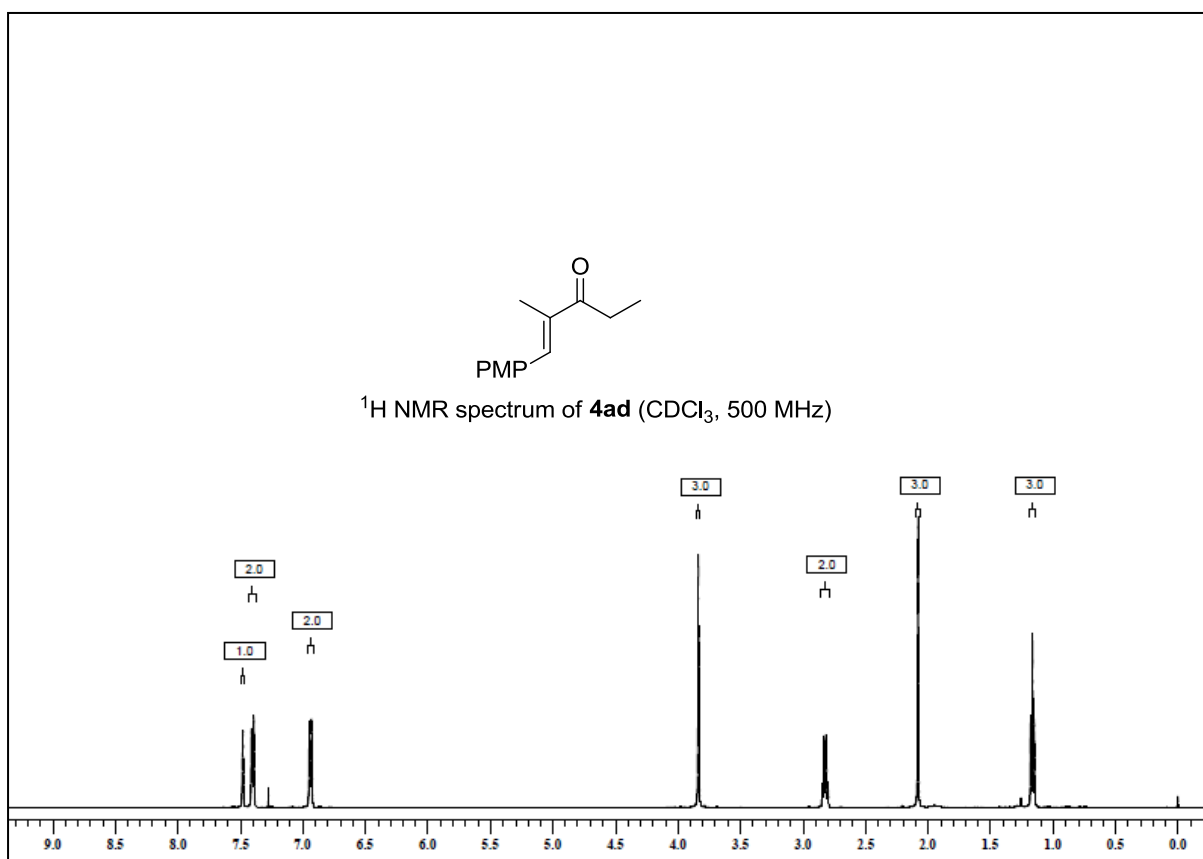


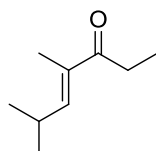
$^{13}\text{C}$  NMR spectrum of **4I** ( $\text{CDCl}_3$ , 75 MHz)



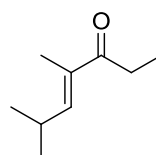
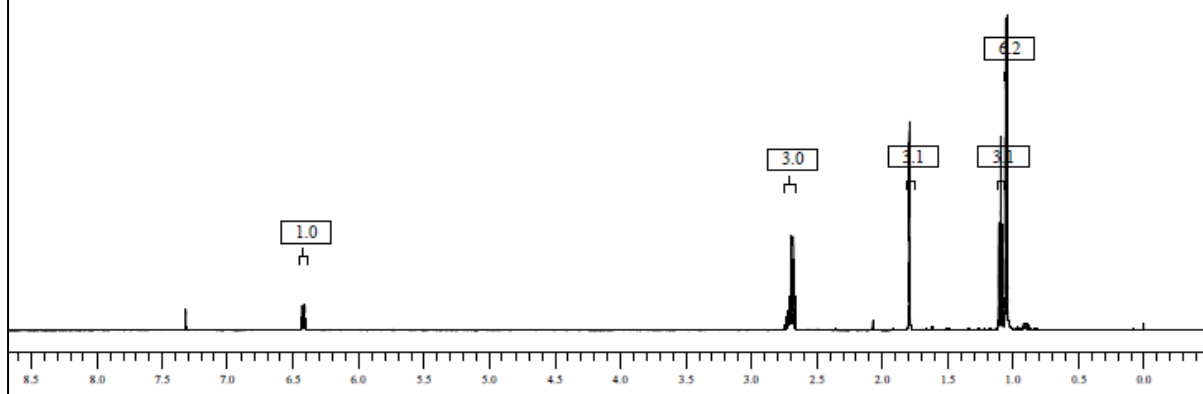




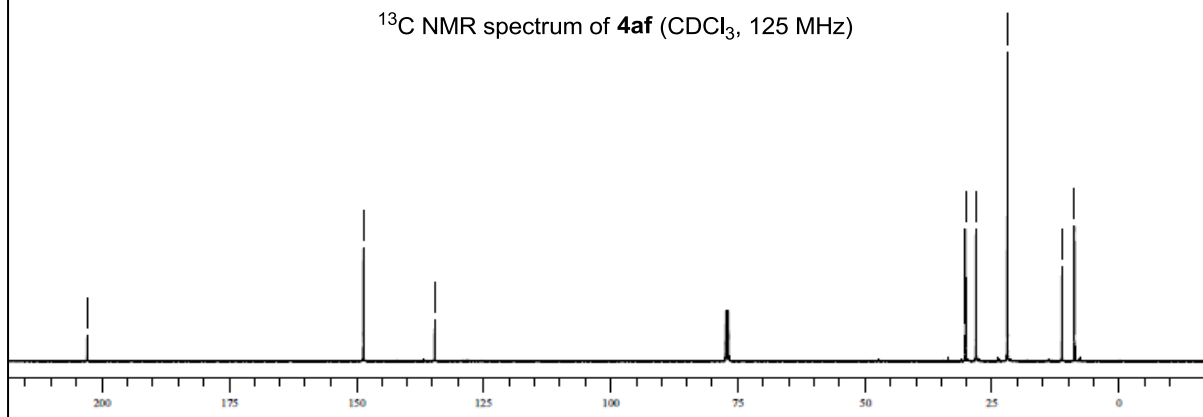


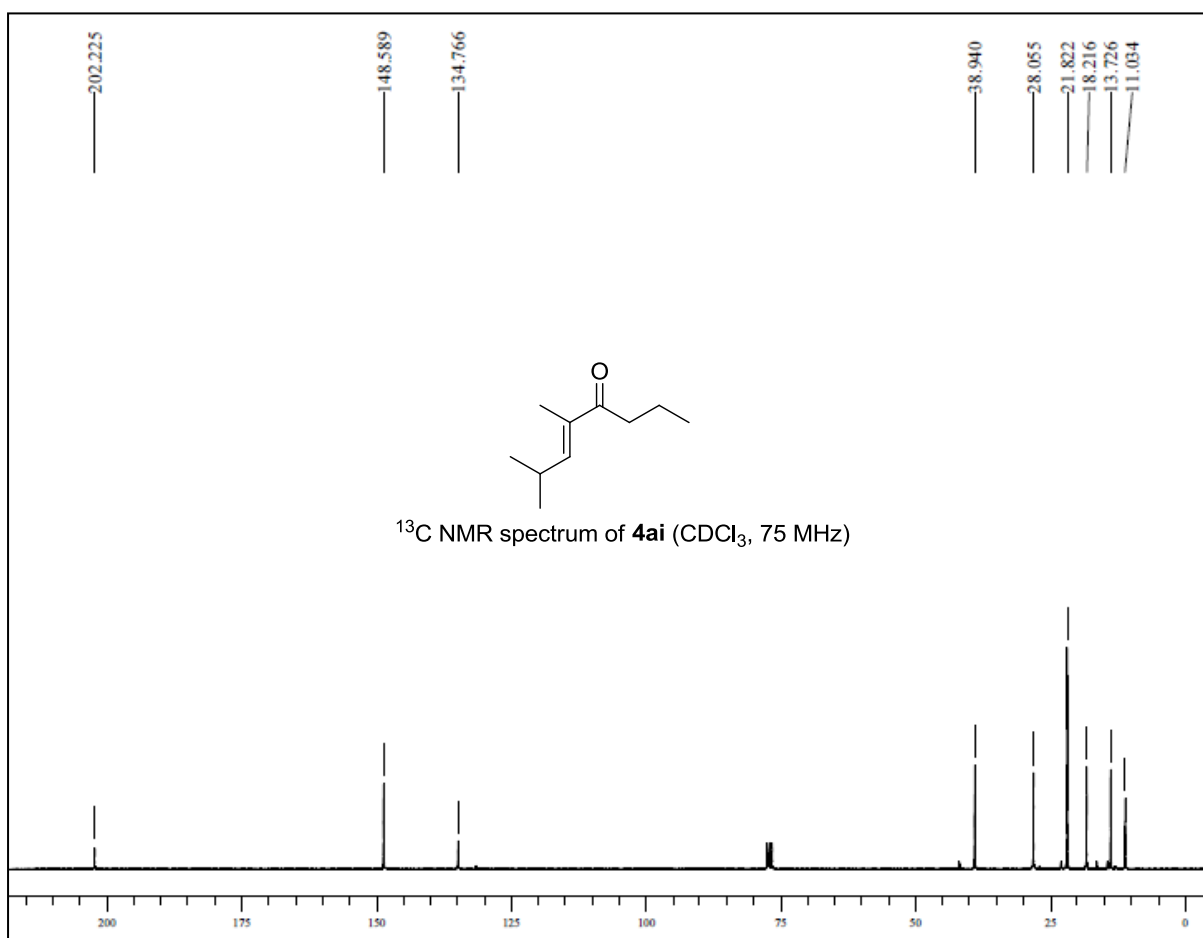
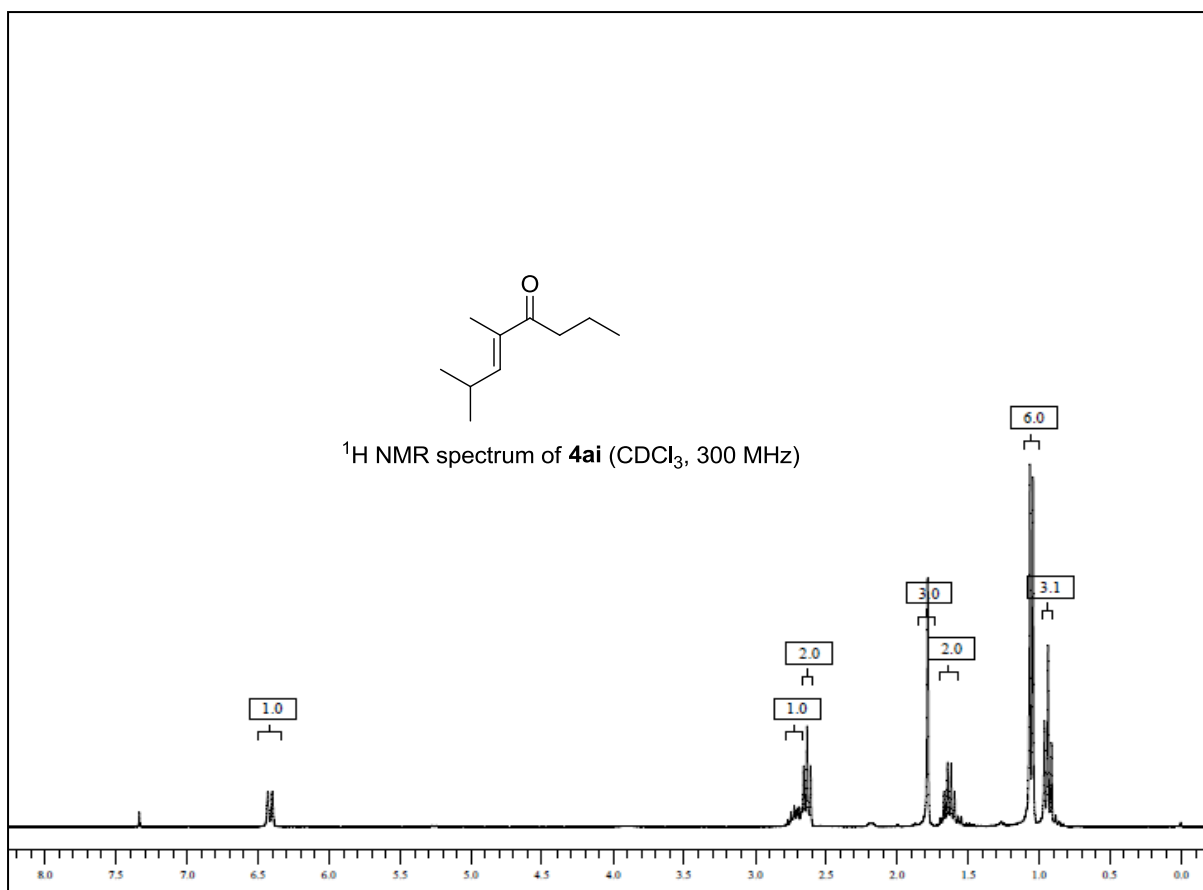


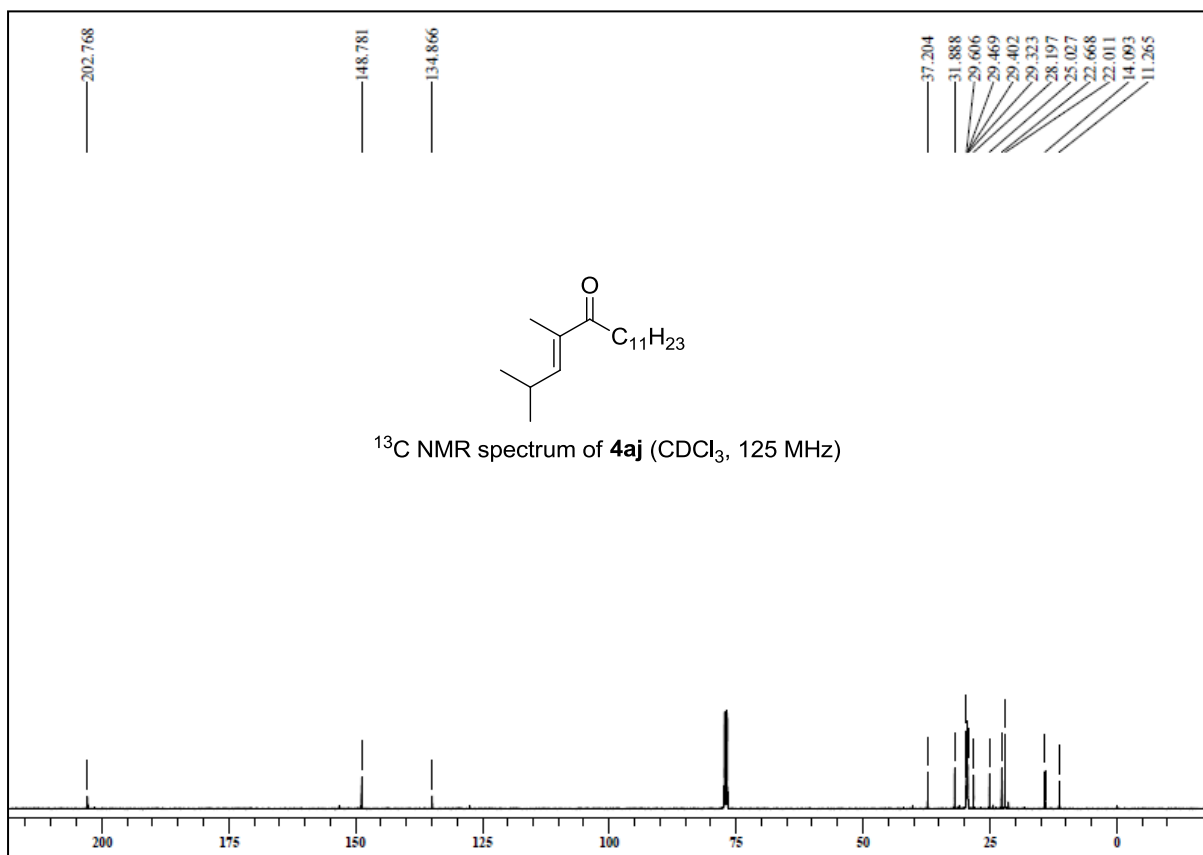
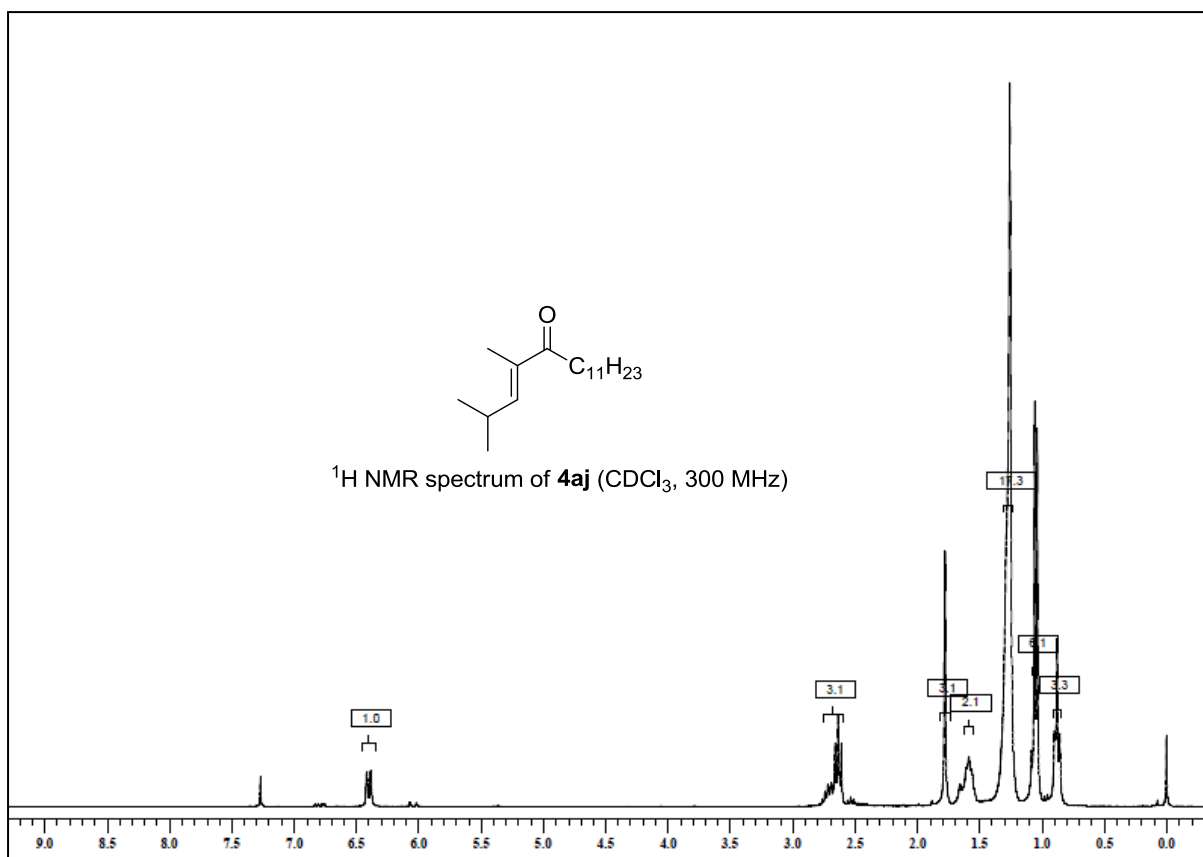
$^1\text{H}$  NMR spectrum of **4af** ( $\text{CDCl}_3$ , 500 MHz)

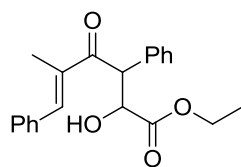


$^{13}\text{C}$  NMR spectrum of **4af** ( $\text{CDCl}_3$ , 125 MHz)

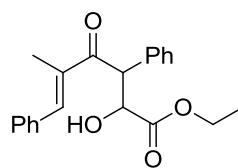
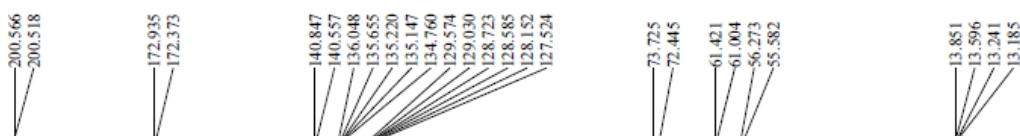
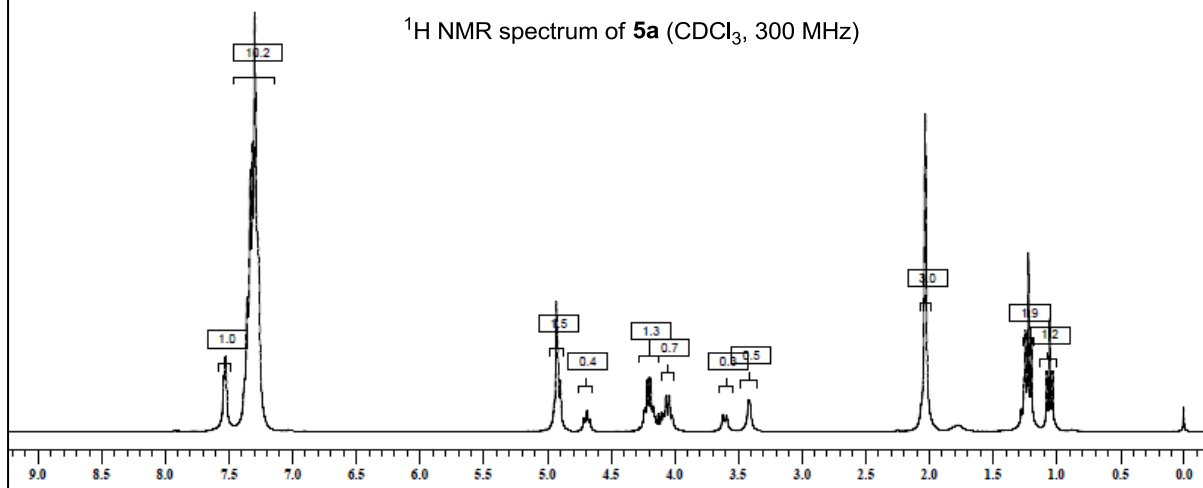




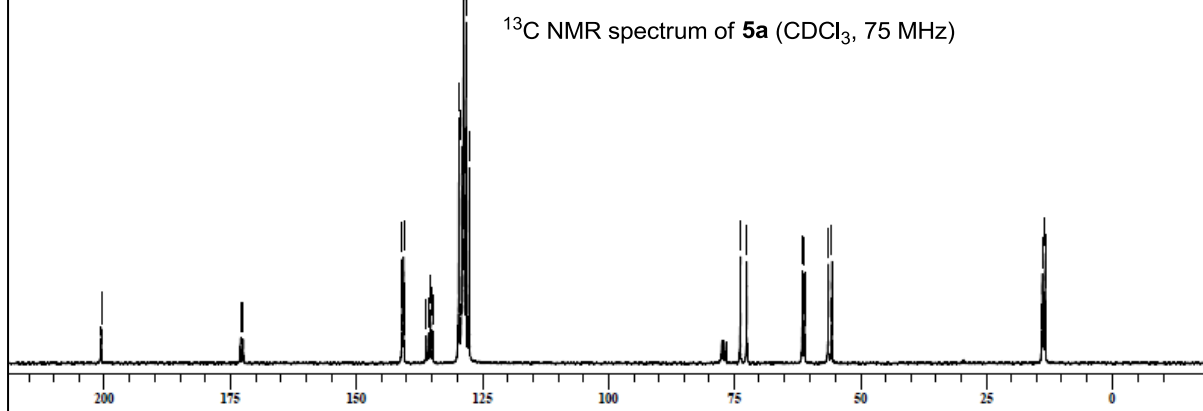


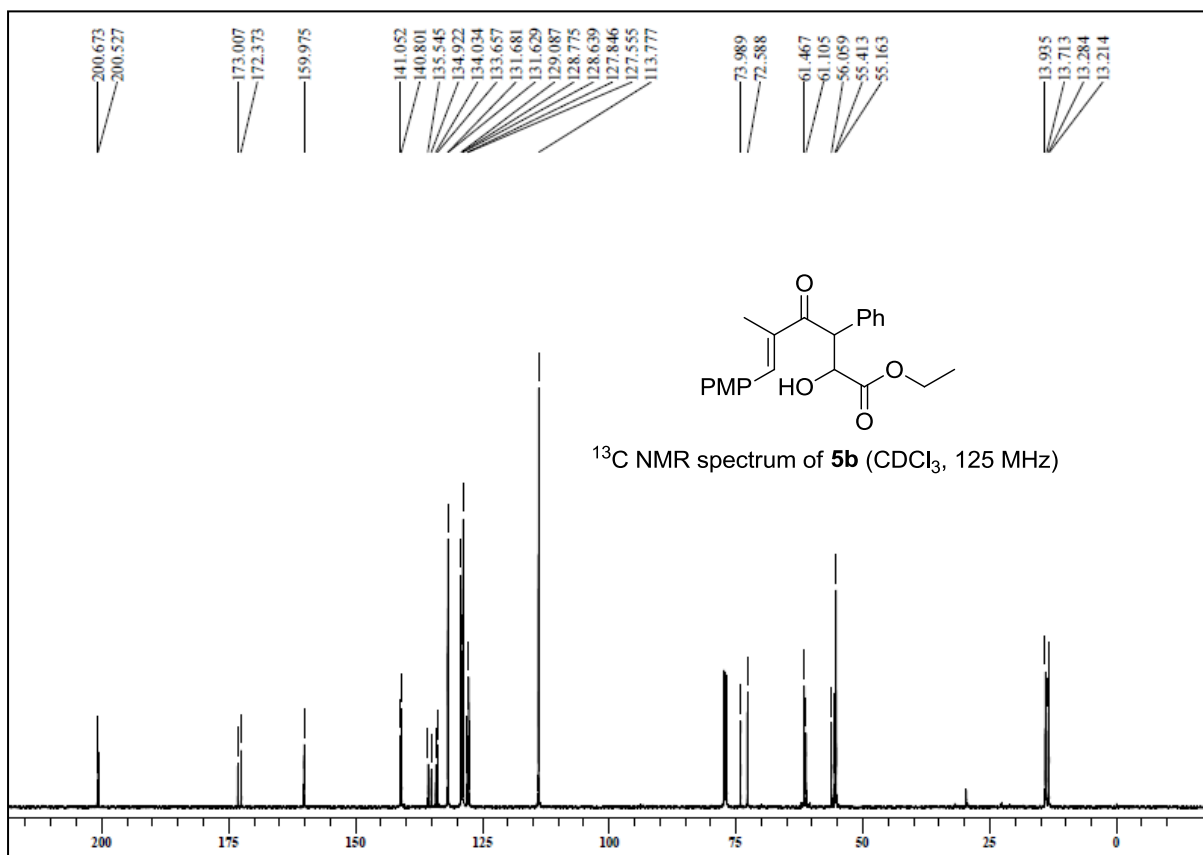
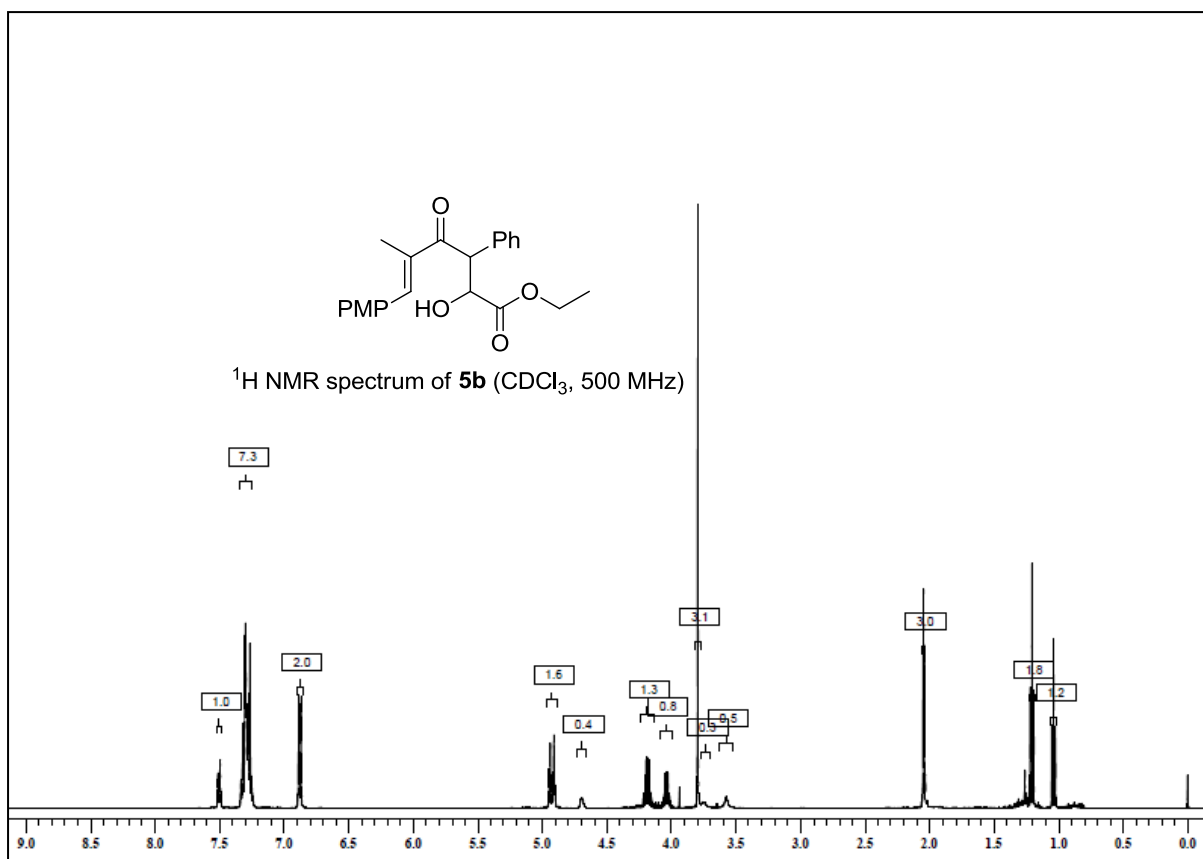


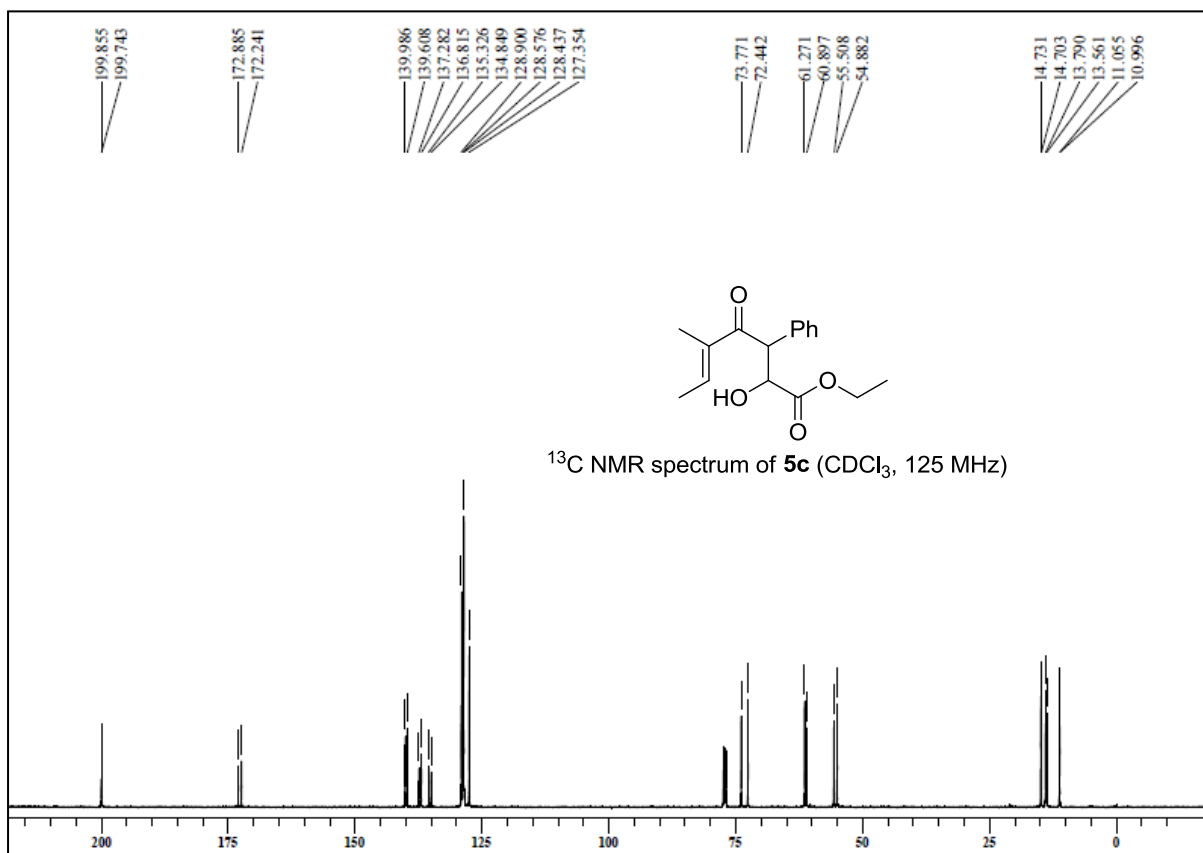
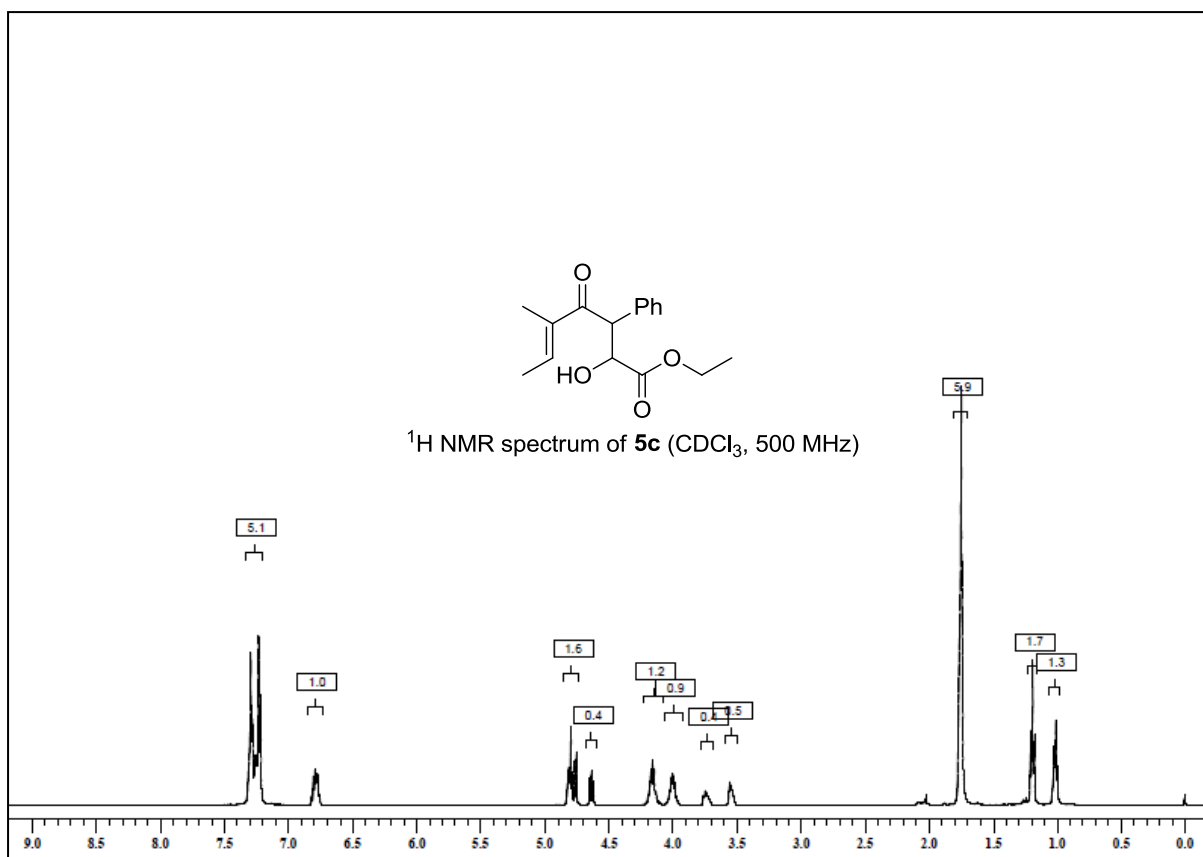
$^1\text{H}$  NMR spectrum of **5a** ( $\text{CDCl}_3$ , 300 MHz)

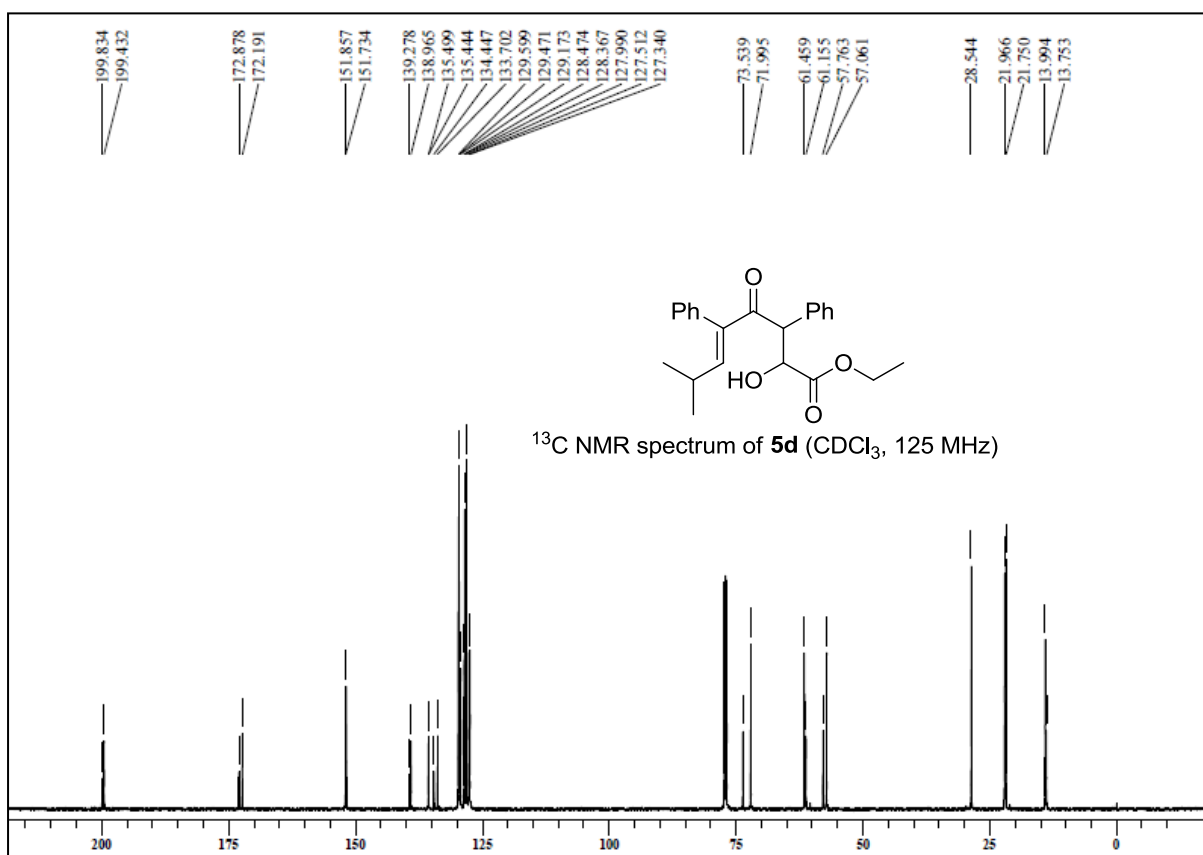
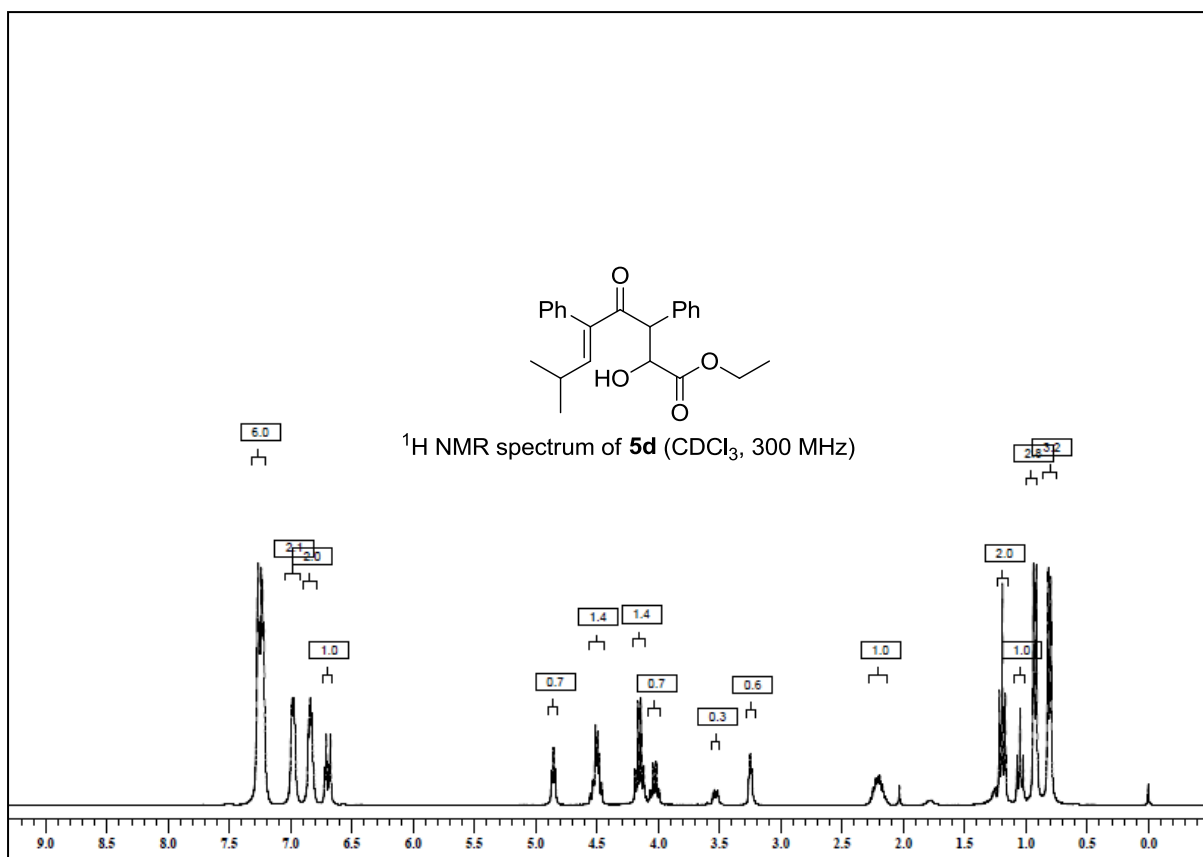


$^{13}\text{C}$  NMR spectrum of **5a** ( $\text{CDCl}_3$ , 75 MHz)

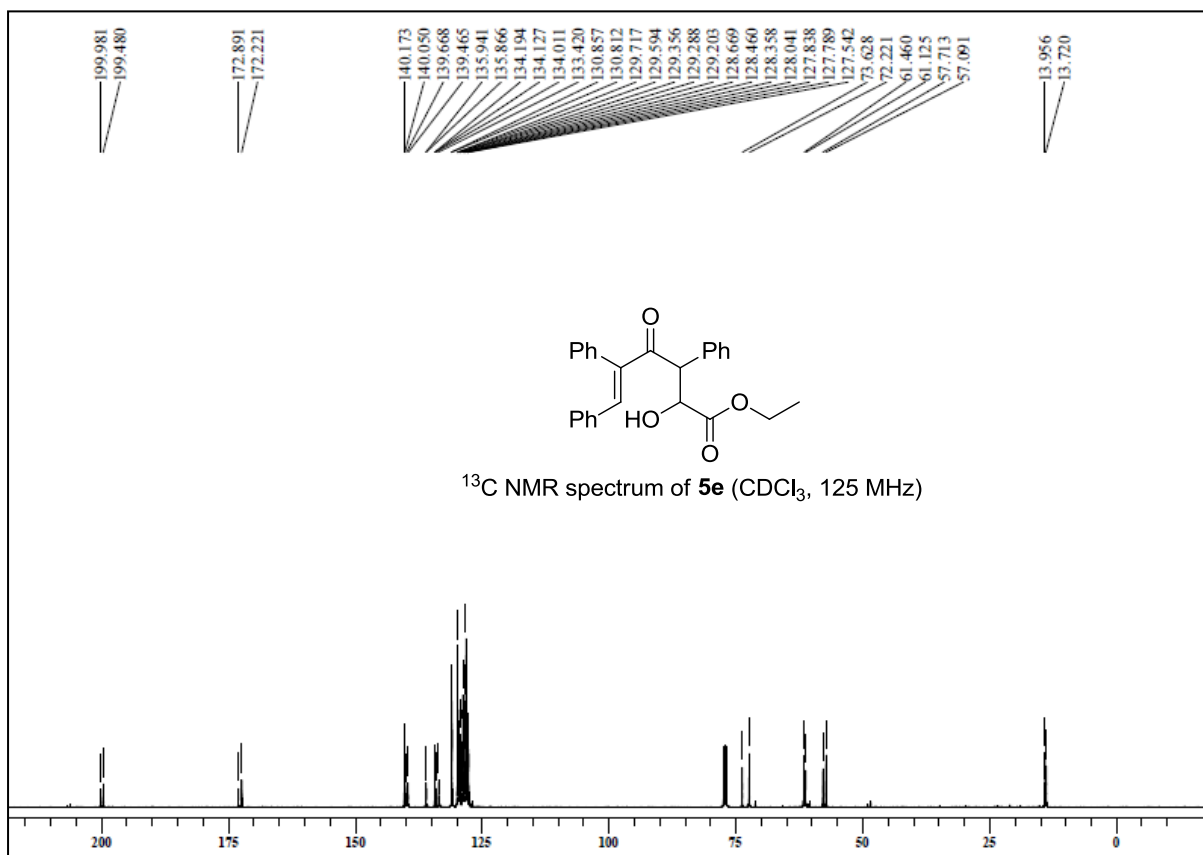
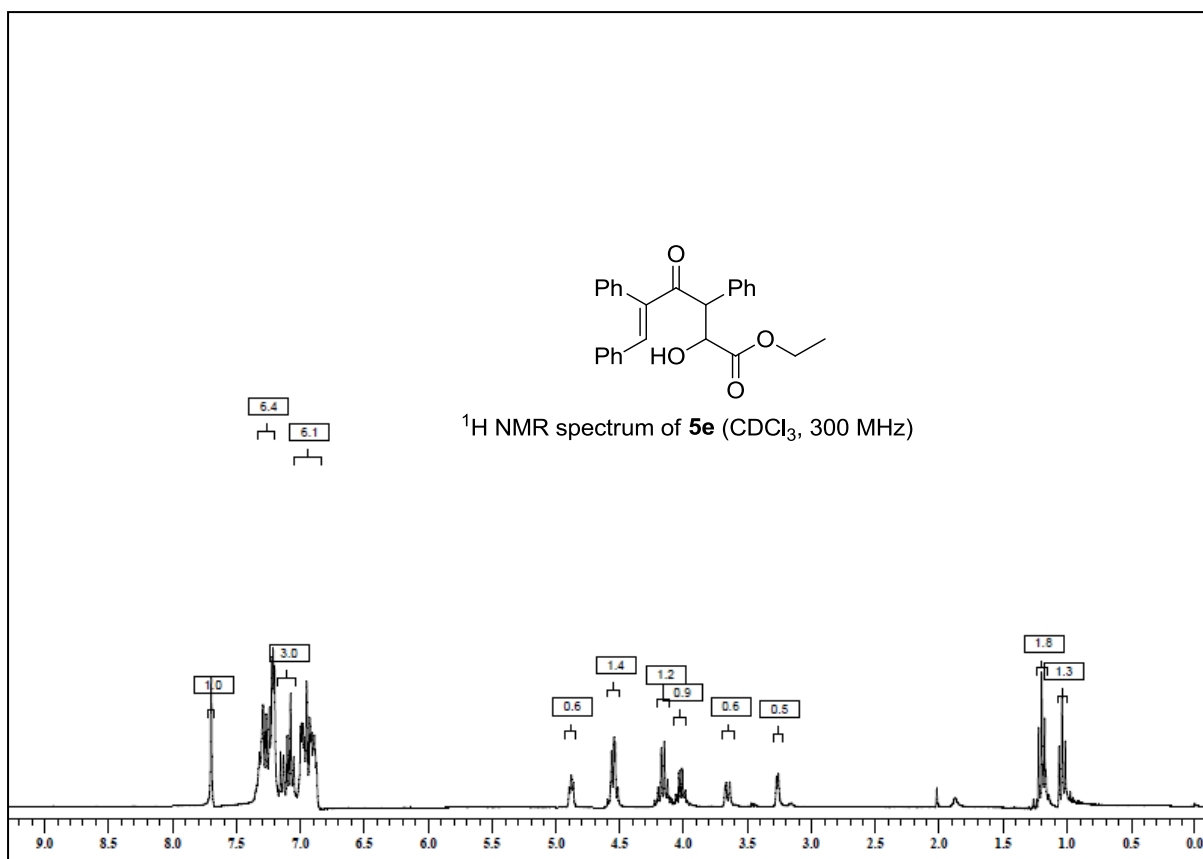


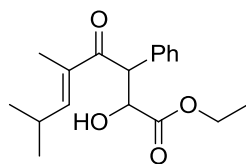




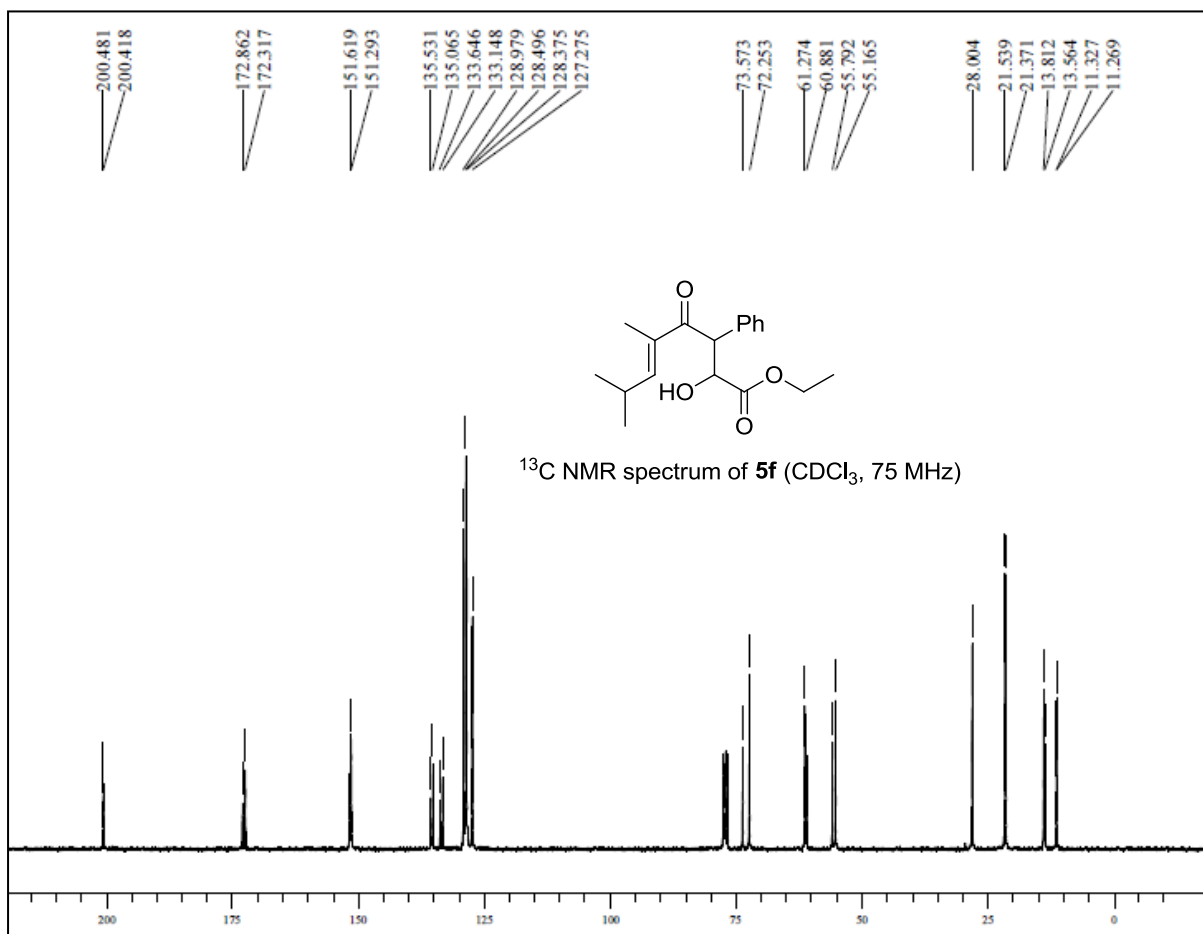
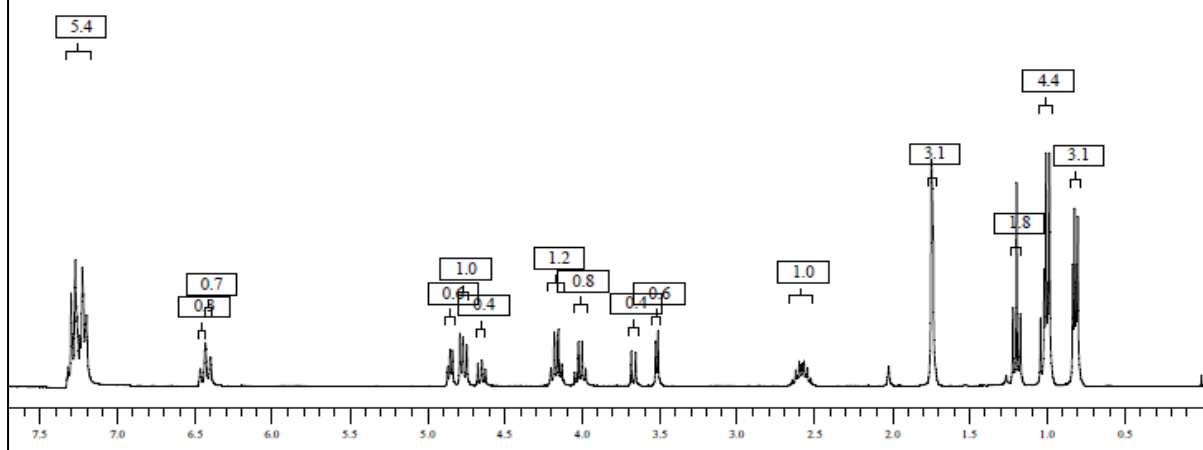


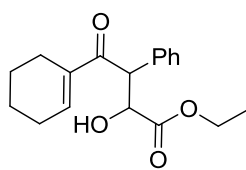




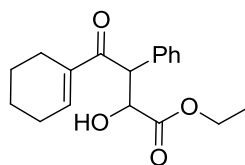
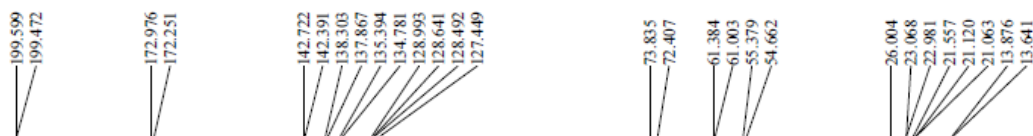
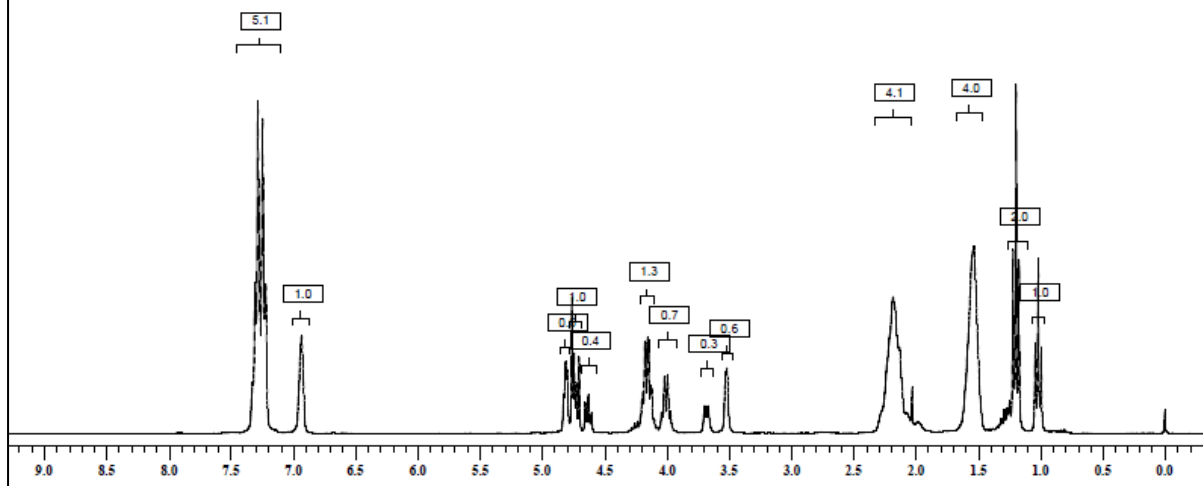


$^1\text{H}$  NMR spectrum of **5f** ( $\text{CDCl}_3$ , 300 MHz)

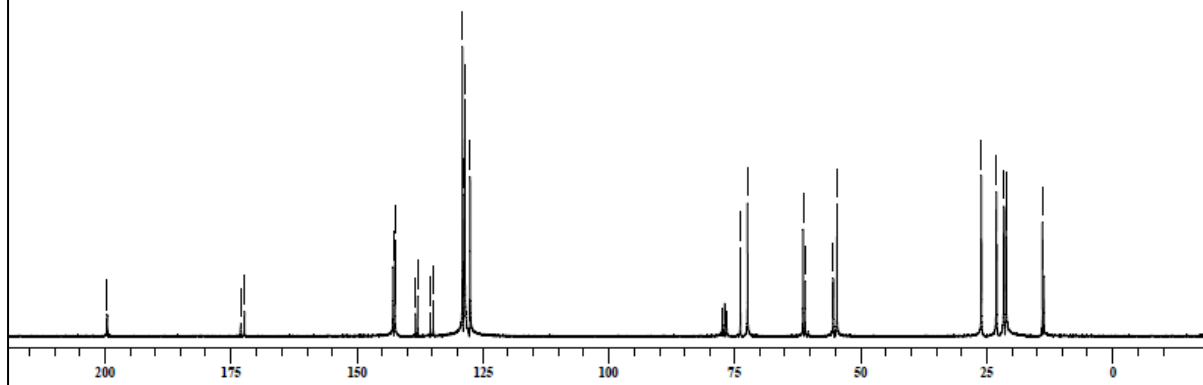


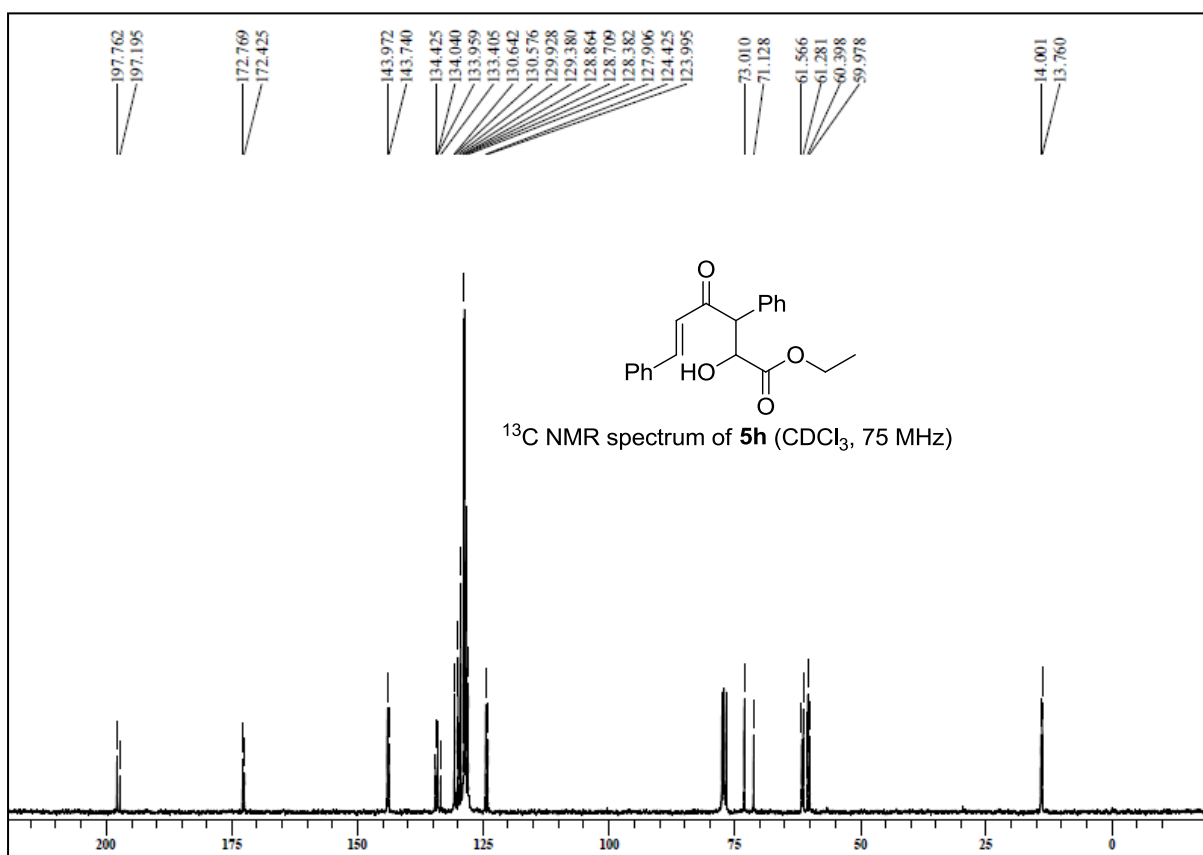
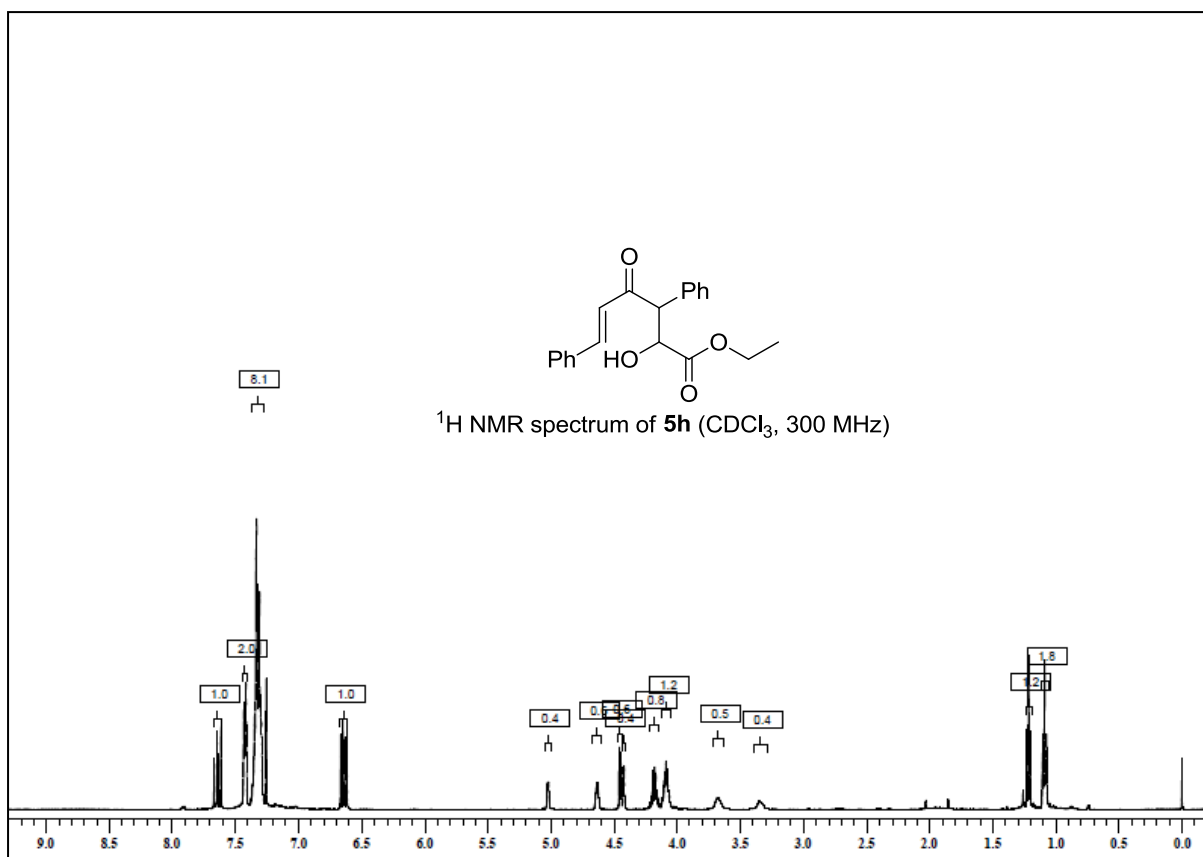


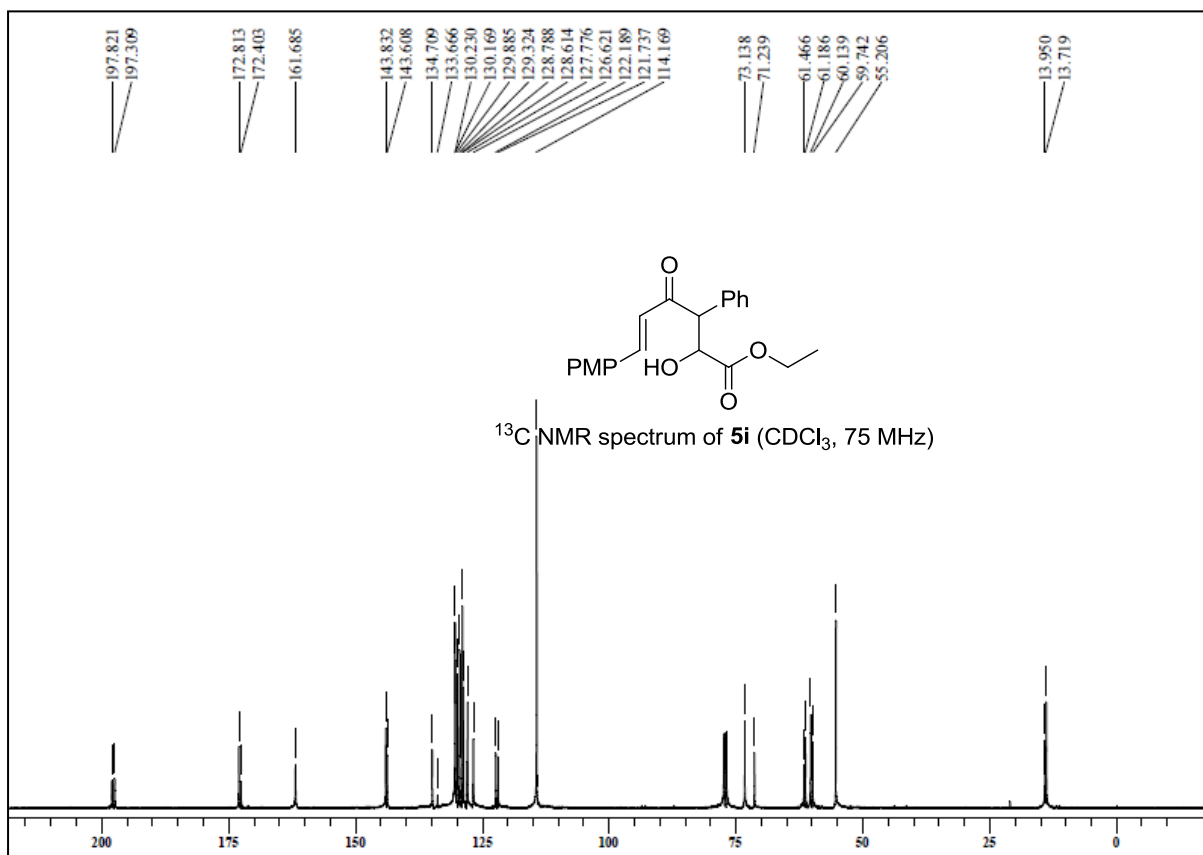
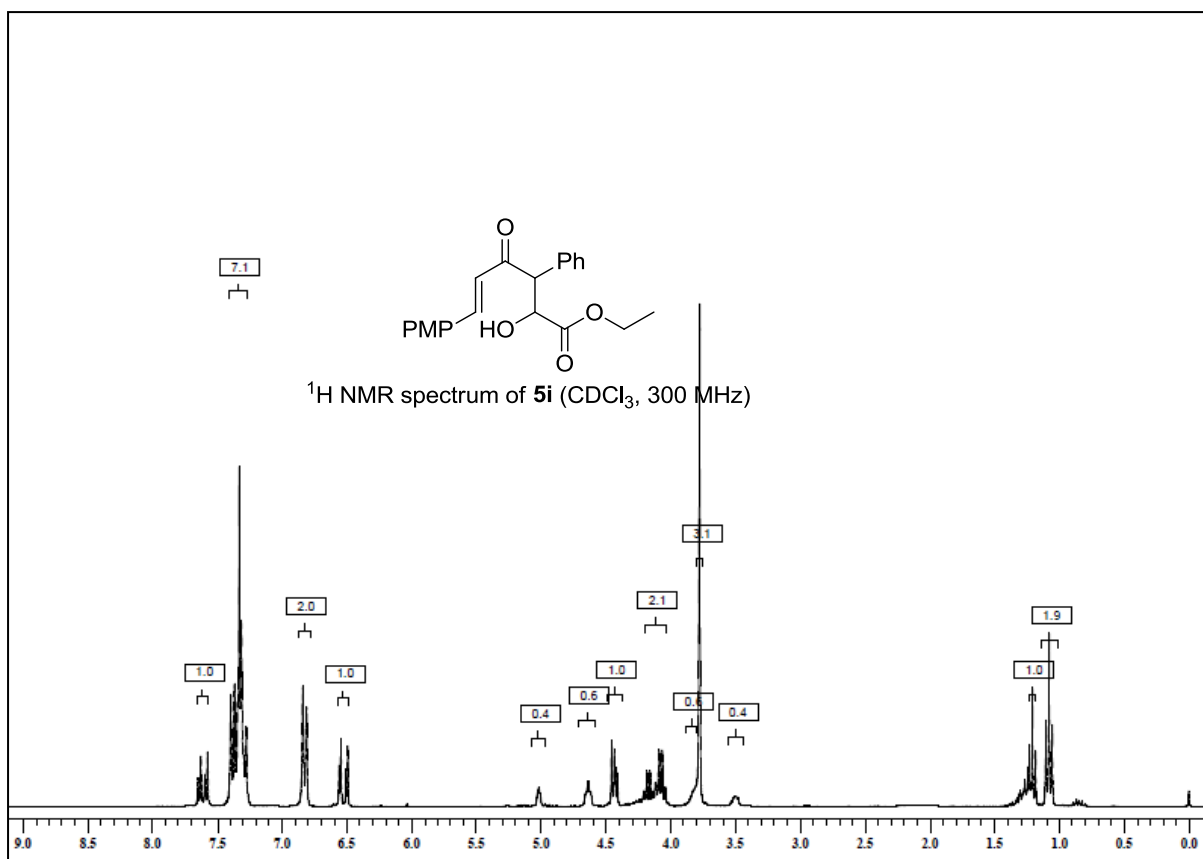
$^1\text{H}$  NMR spectrum of **5g** ( $\text{CDCl}_3$ , 300 MHz)

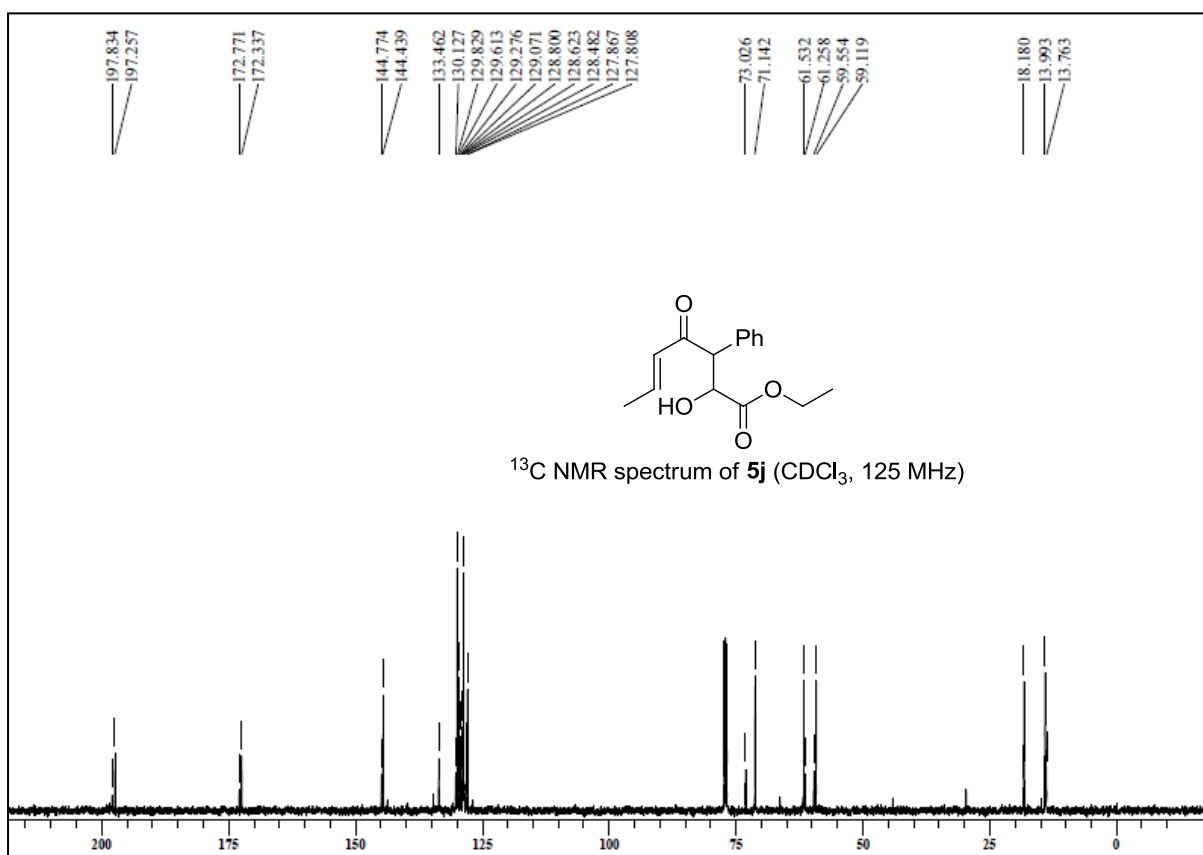
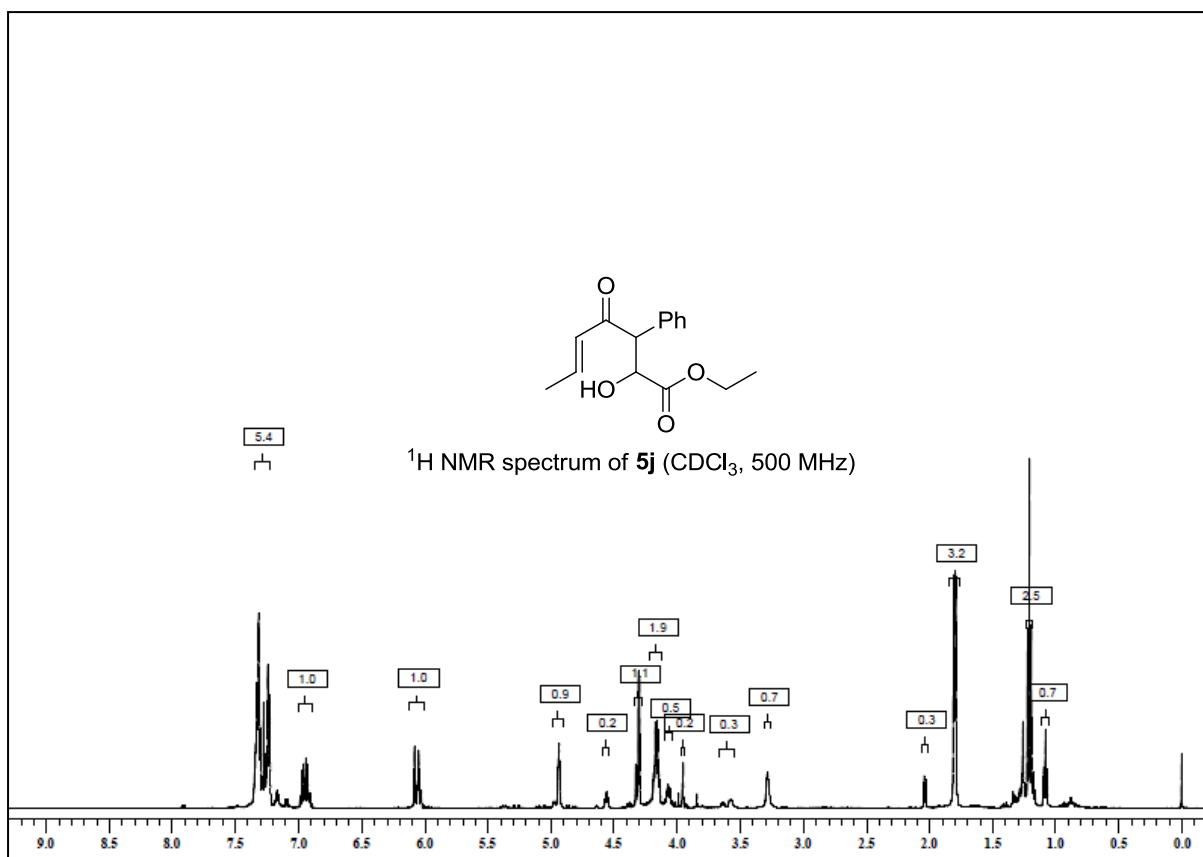


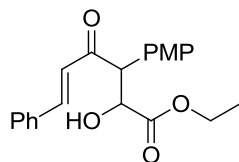
$^{13}\text{C}$  NMR spectrum of **5g** ( $\text{CDCl}_3$ , 75 MHz)



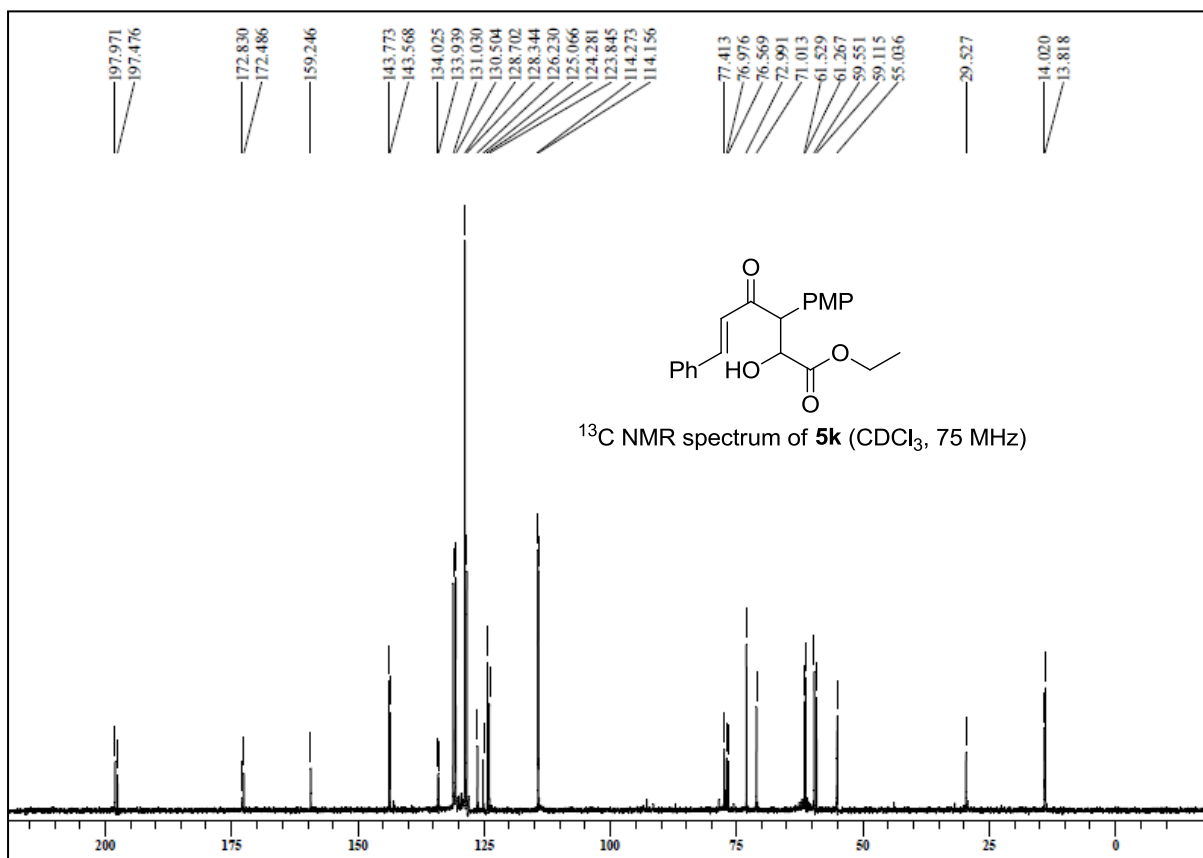
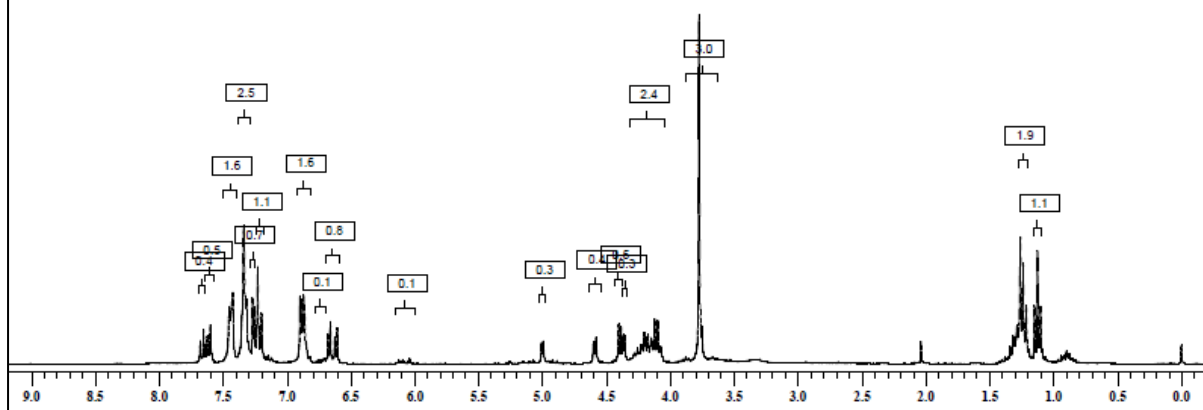


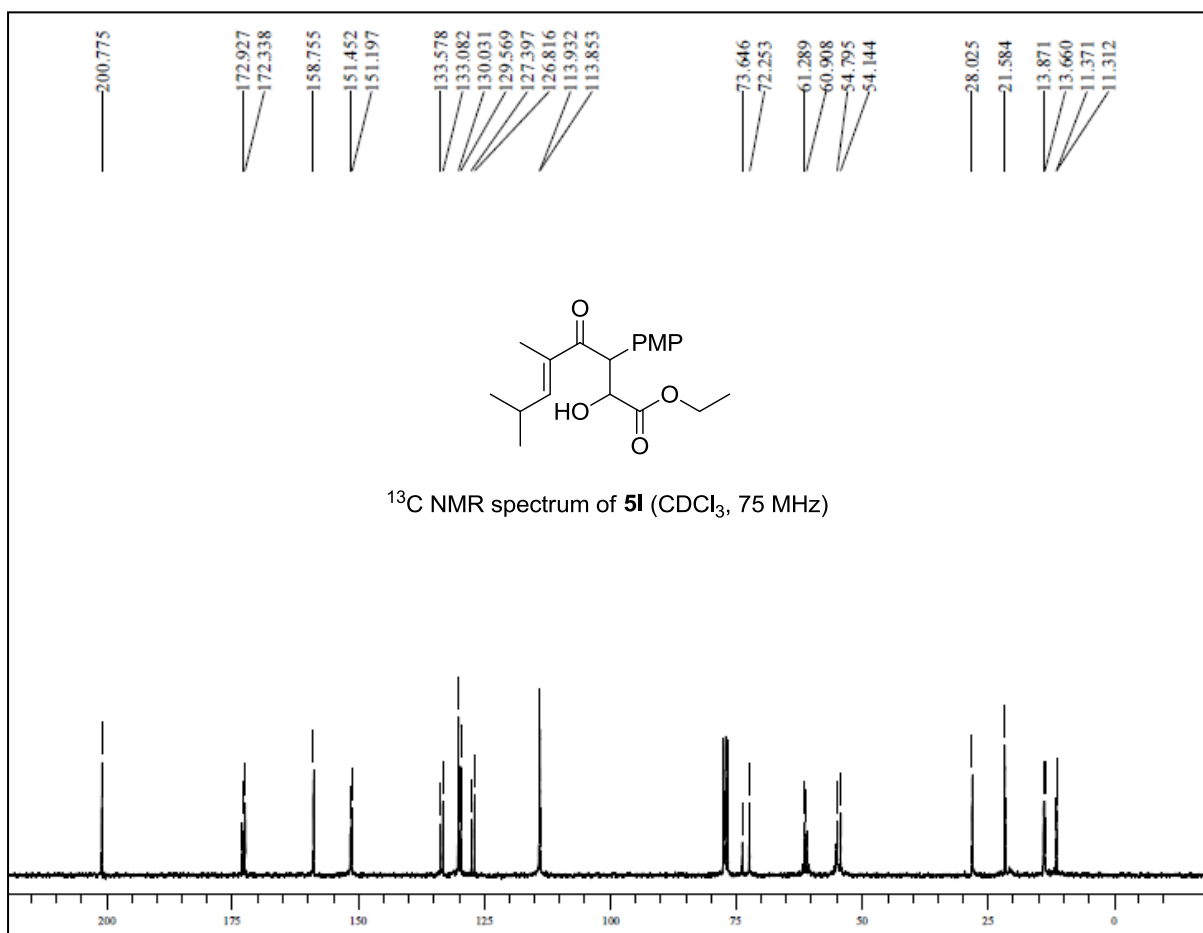
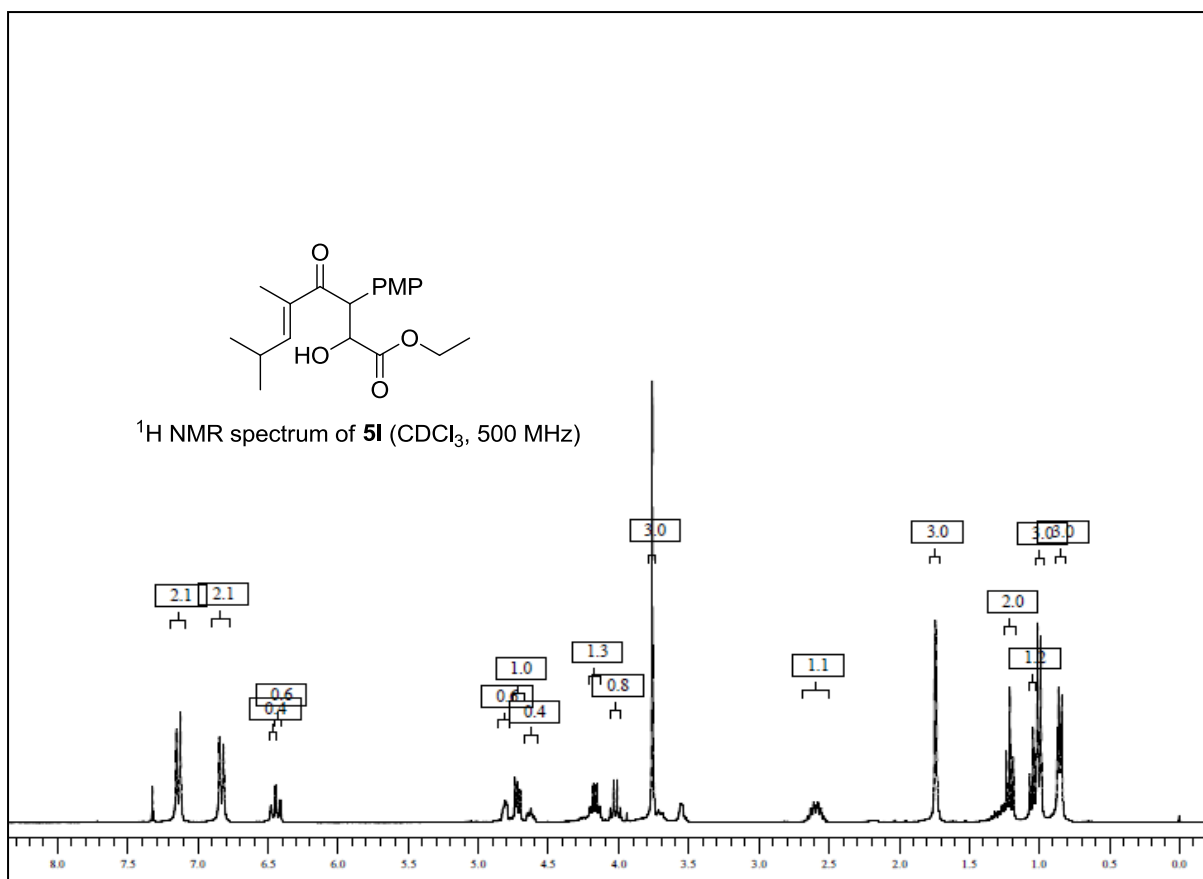




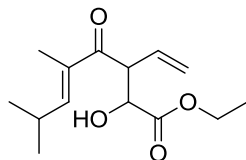


$^1\text{H}$  NMR spectrum of **5k** ( $\text{CDCl}_3$ , 300 MHz)

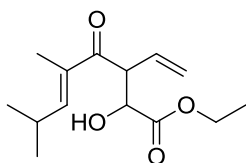
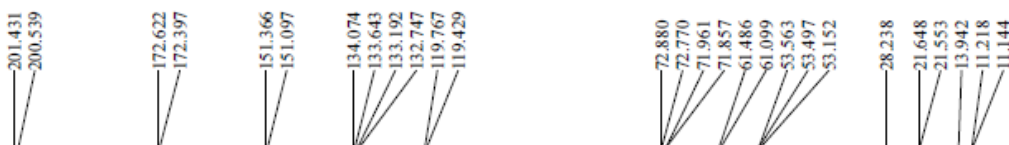
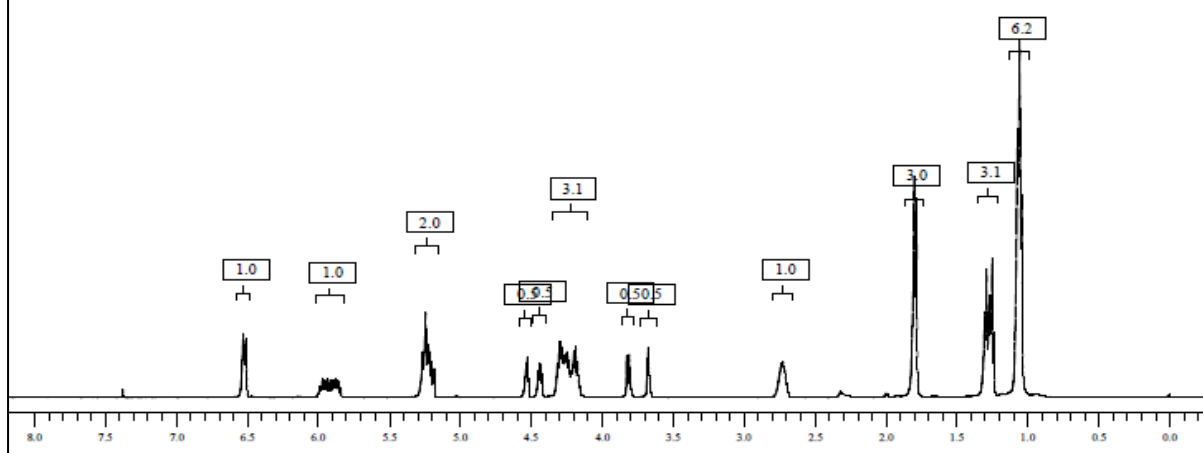




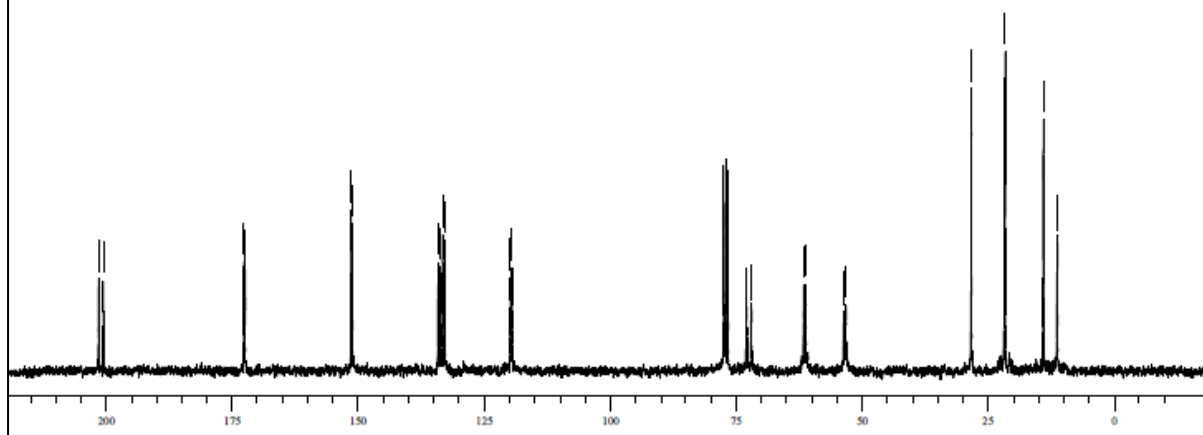


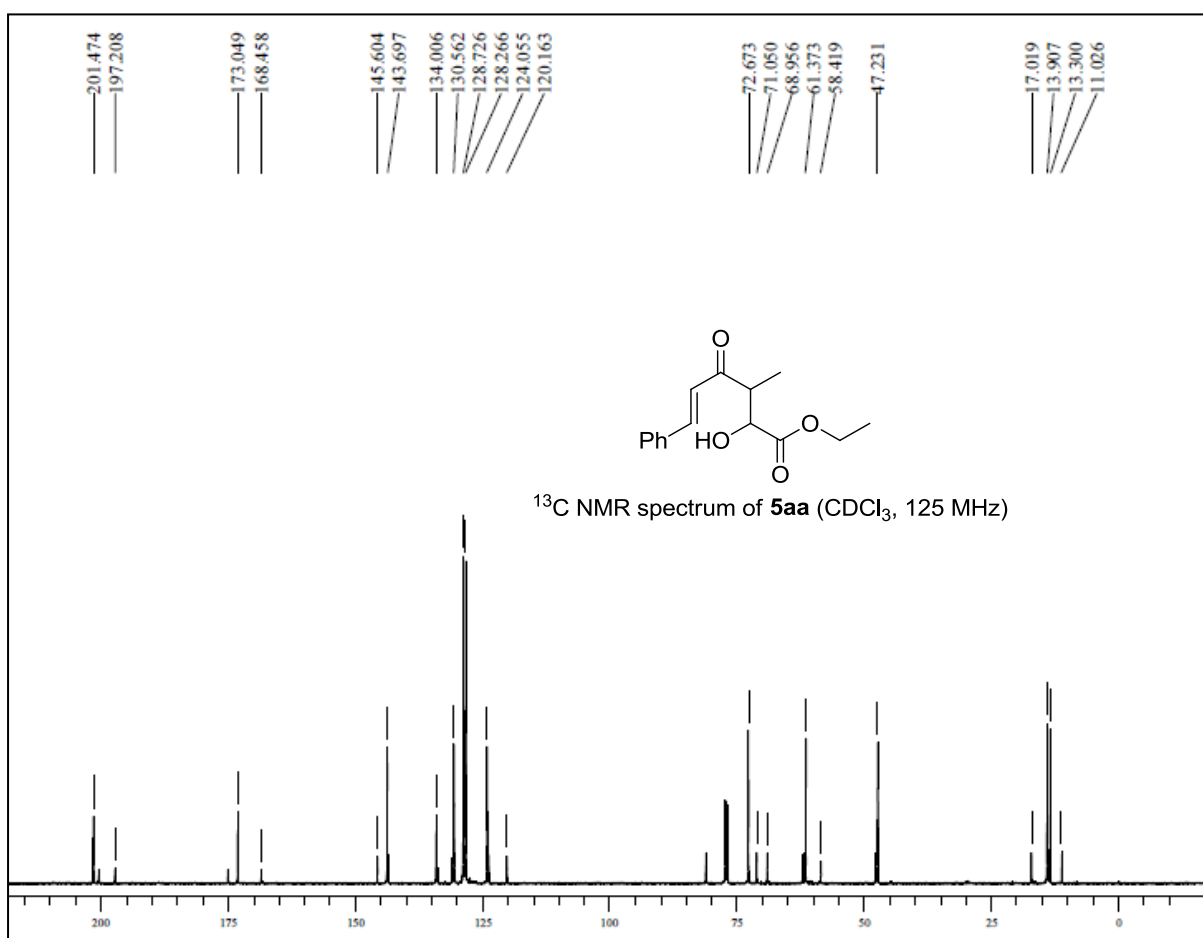
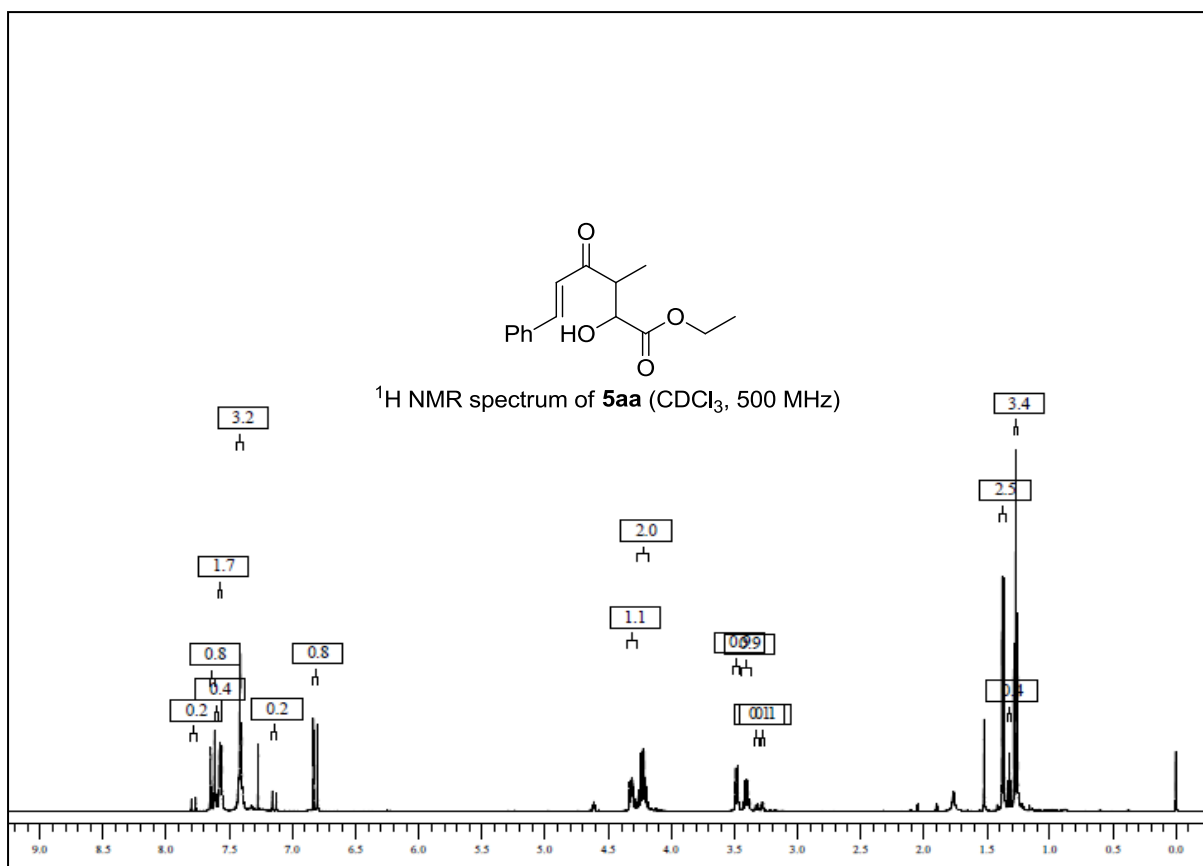


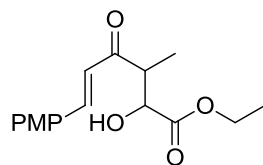
$^1\text{H}$  NMR spectrum of **5m** ( $\text{CDCl}_3$ , 500 MHz)



$^{13}\text{C}$  NMR spectrum of **5m** ( $\text{CDCl}_3$ , 75 MHz)

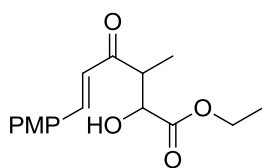
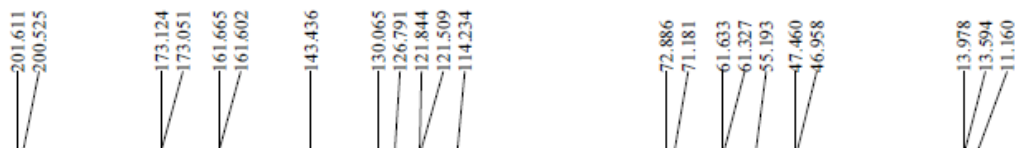
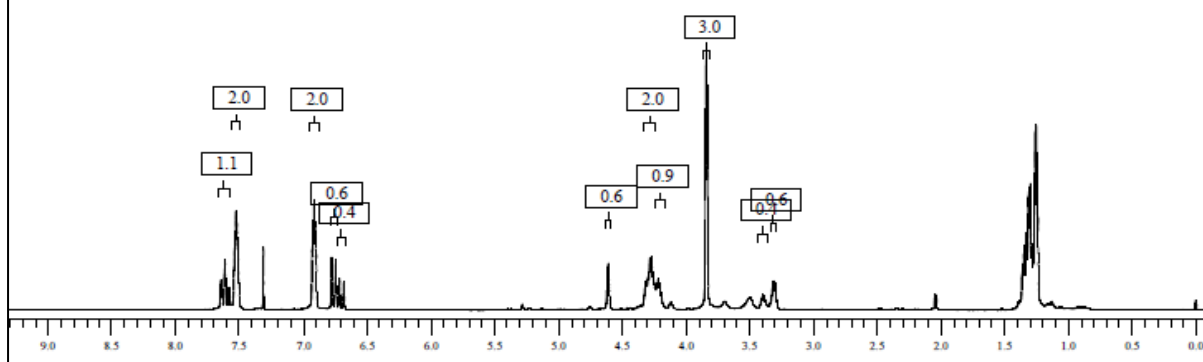




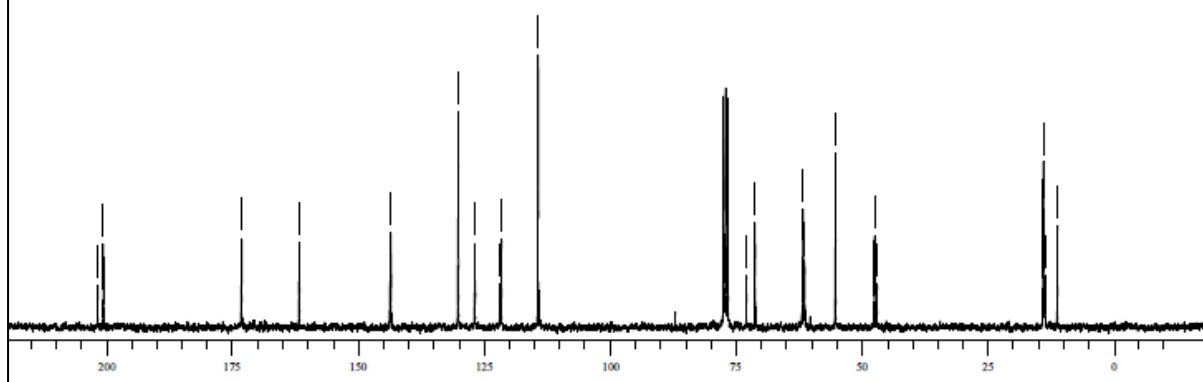


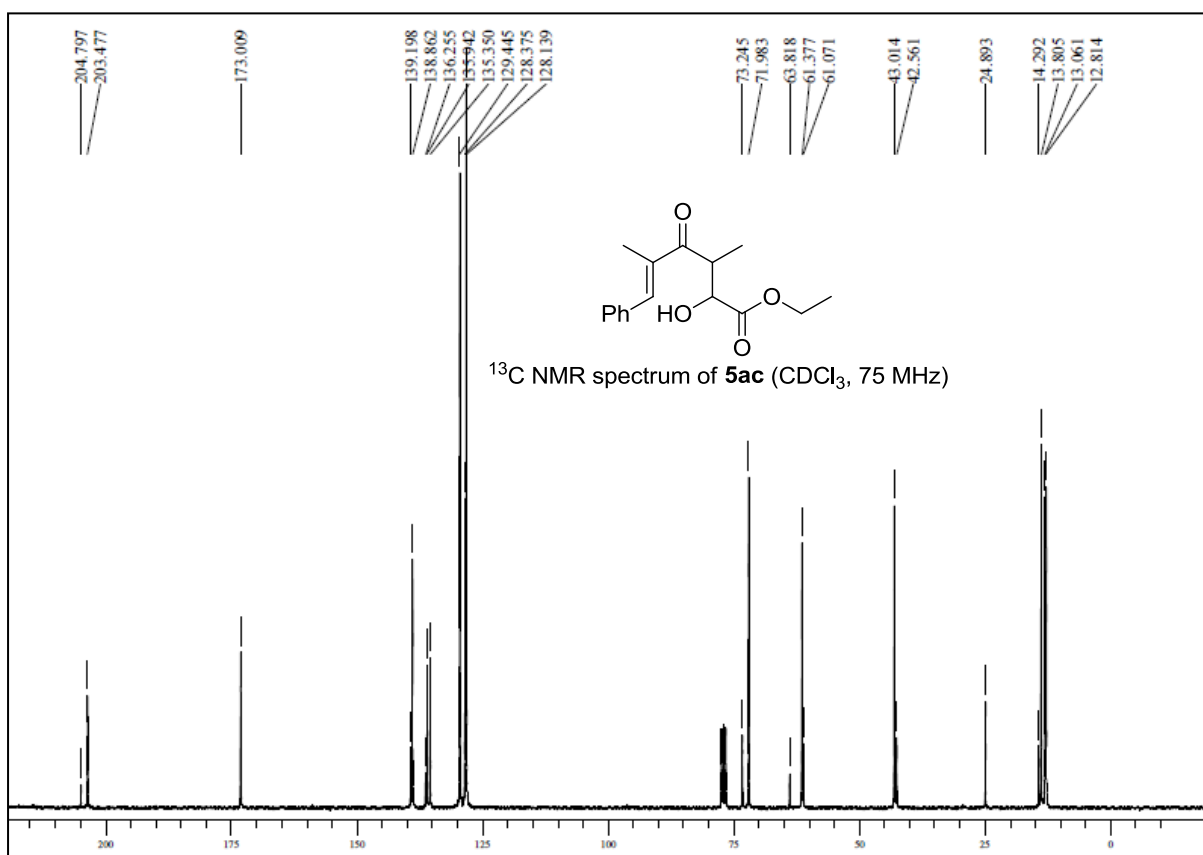
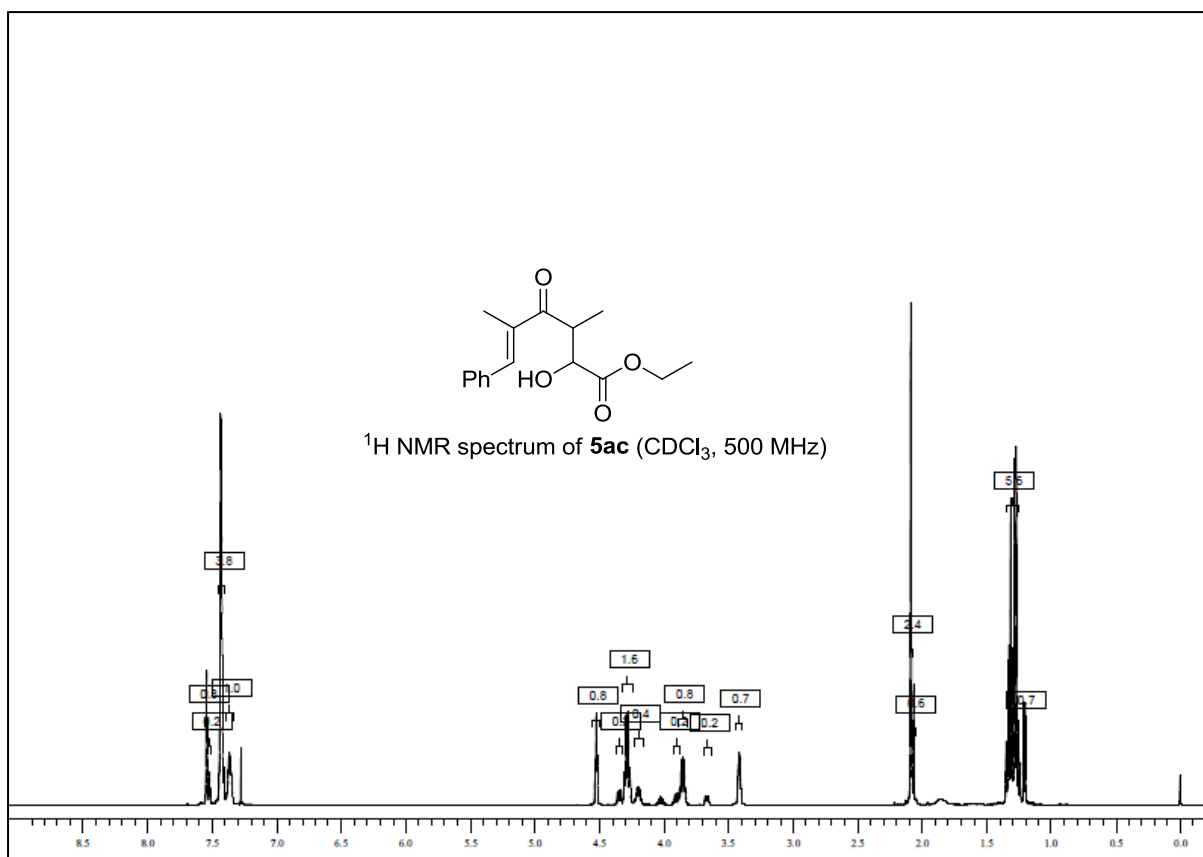
6.4

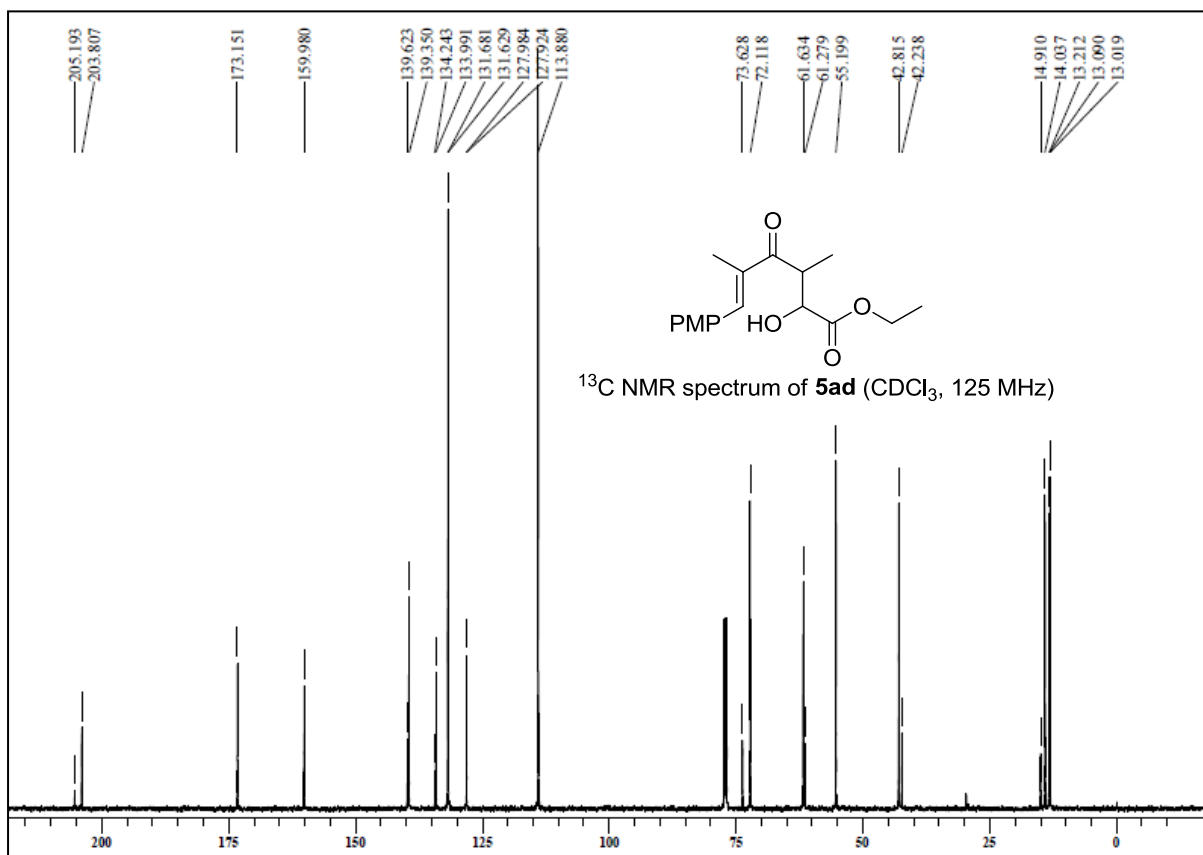
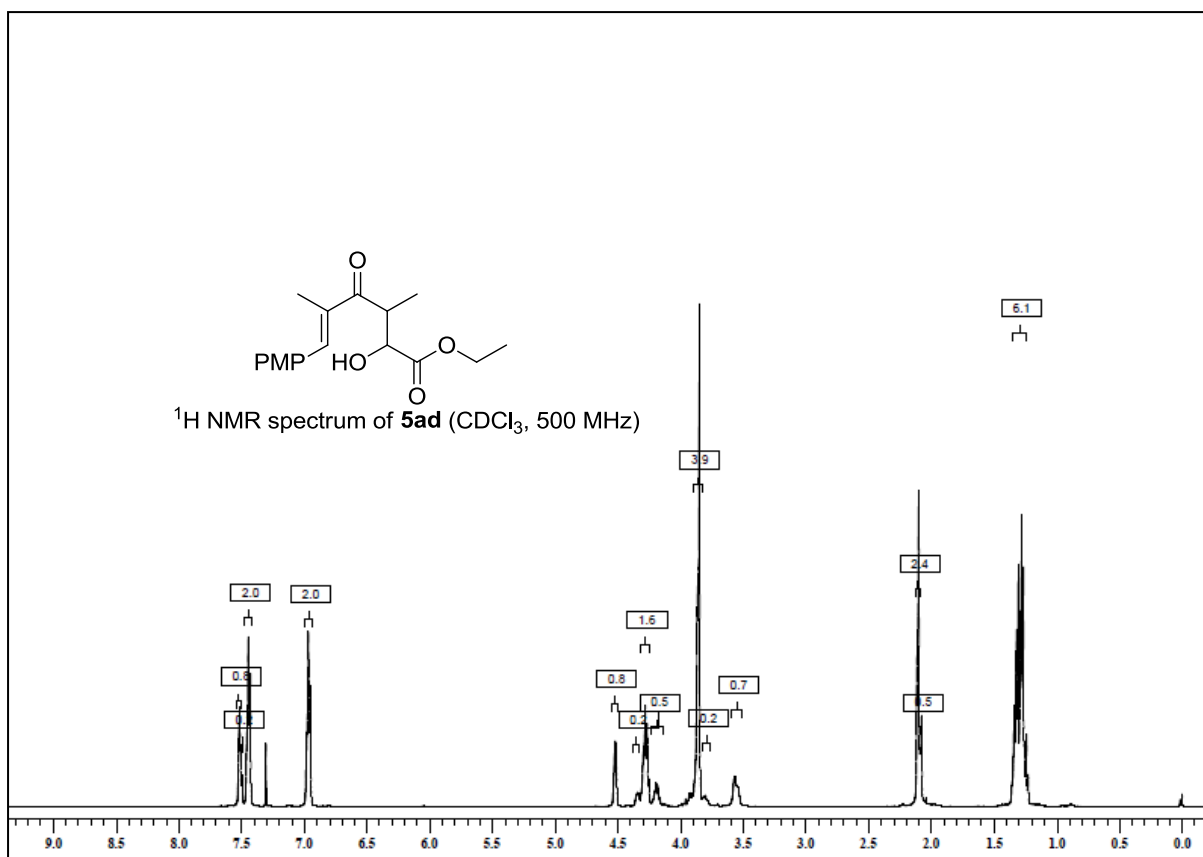
$^1\text{H}$  NMR spectrum of **5ab** ( $\text{CDCl}_3$ , 500 MHz)

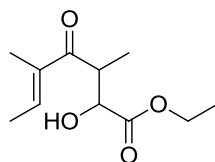


$^{13}\text{C}$  NMR spectrum of **5ab** ( $\text{CDCl}_3$ , 75 MHz)

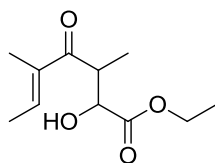
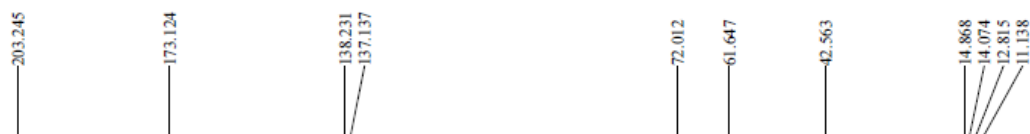
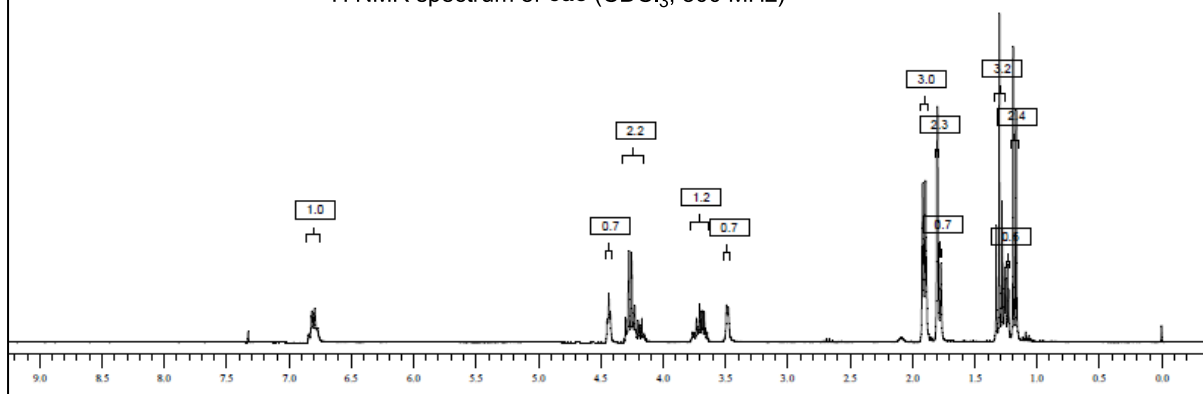




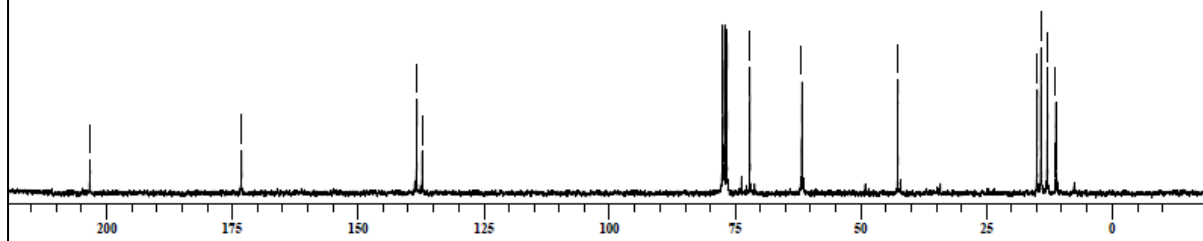


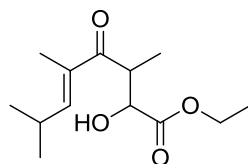


<sup>1</sup>H NMR spectrum of **5ae** (CDCl<sub>3</sub>, 300 MHz)

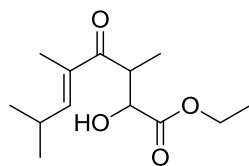
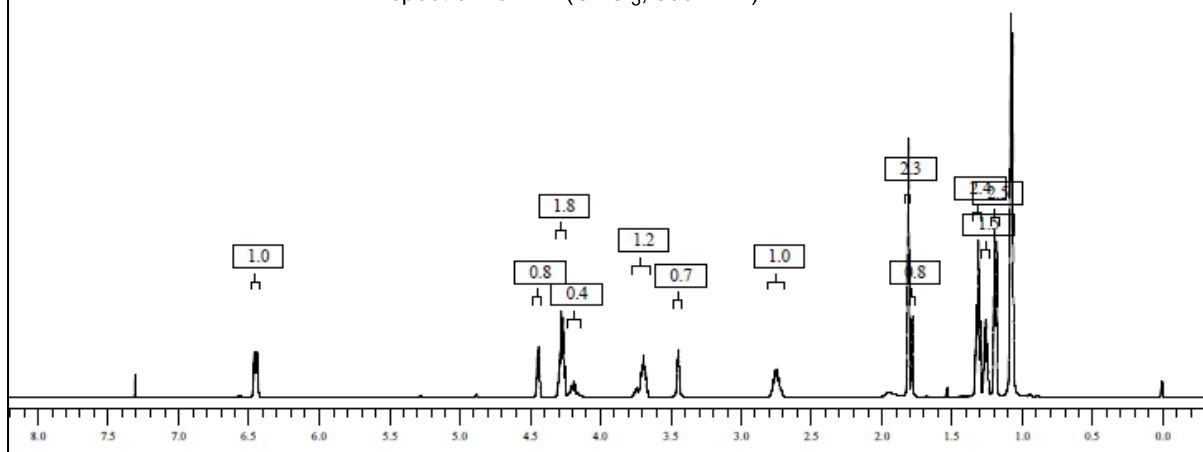


<sup>13</sup>C NMR spectrum of **5ae** (CDCl<sub>3</sub>, 75 MHz)

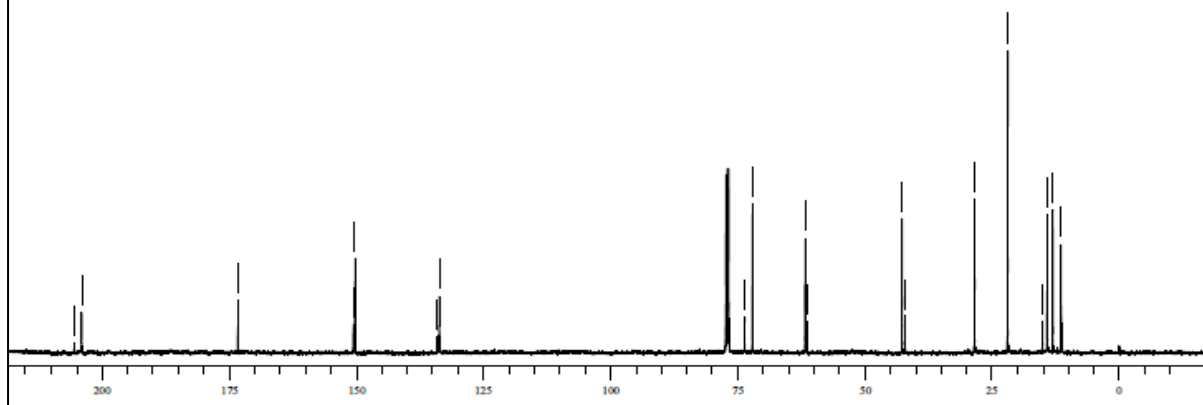


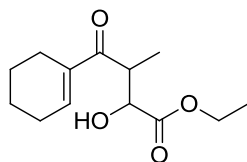


$^1\text{H}$  NMR spectrum of **5af** ( $\text{CDCl}_3$ , 500 MHz)

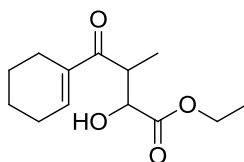
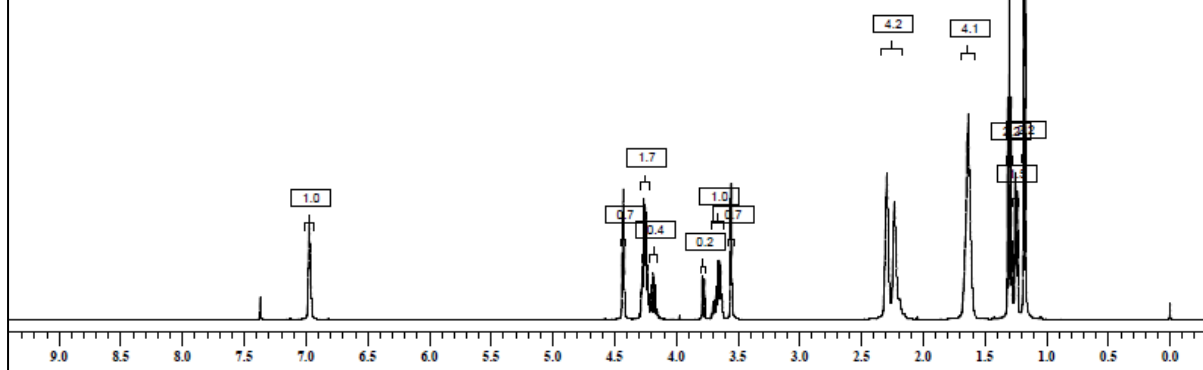


$^{13}\text{C}$  NMR spectrum of **5af** ( $\text{CDCl}_3$ , 125 MHz)

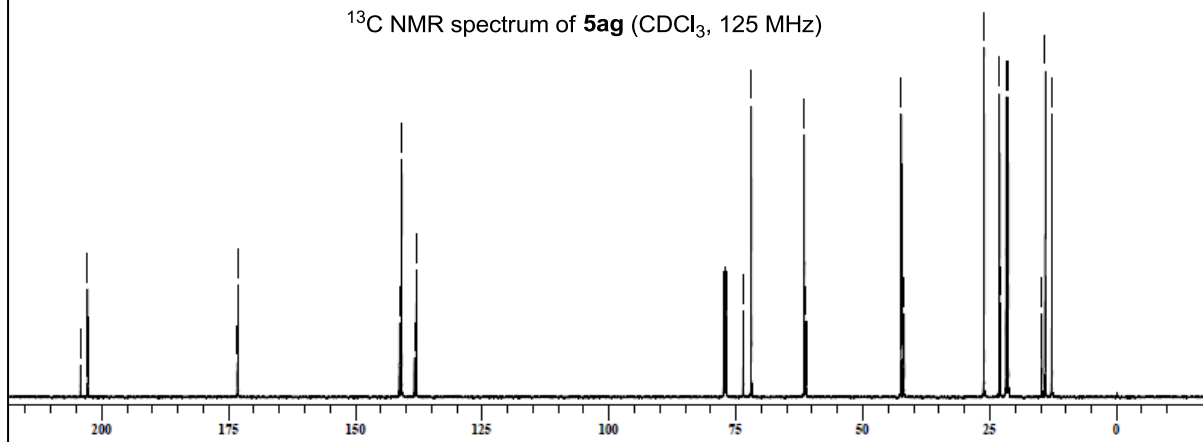




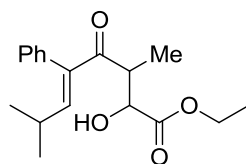
$^1\text{H}$  NMR spectrum of **5ag** ( $\text{CDCl}_3$ , 500 MHz)



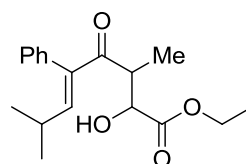
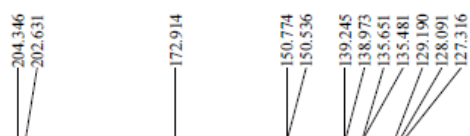
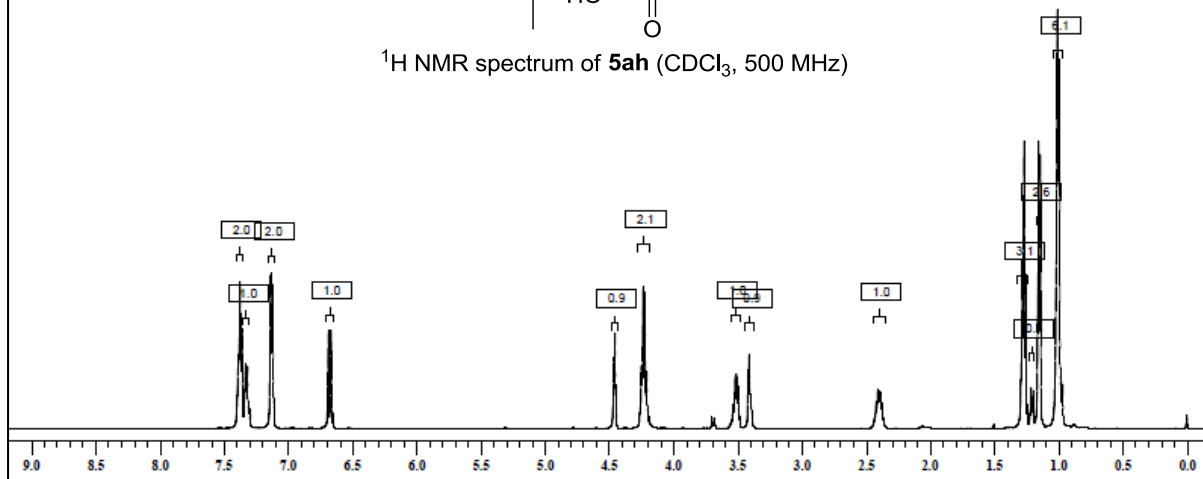
$^{13}\text{C}$  NMR spectrum of **5ag** ( $\text{CDCl}_3$ , 125 MHz)



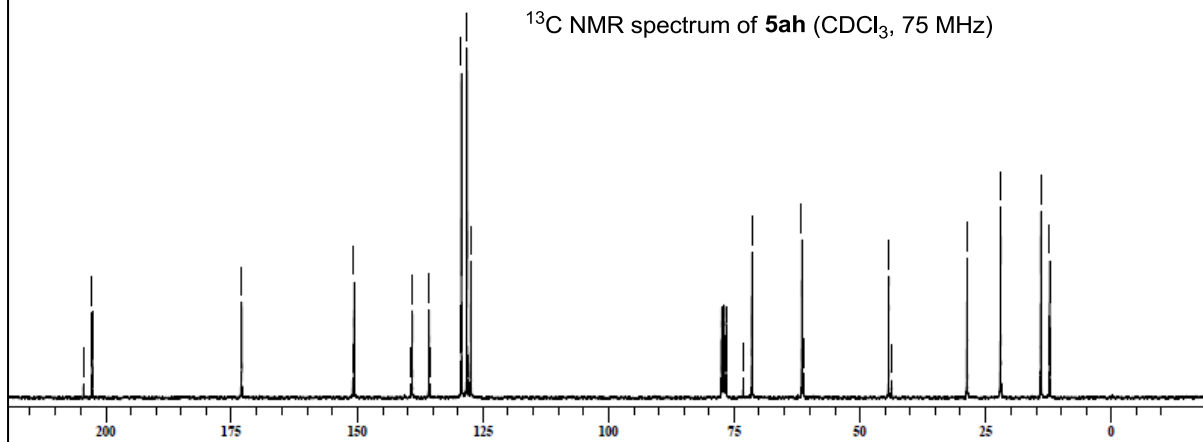


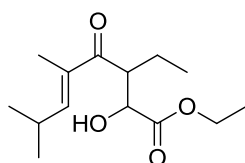


$^1\text{H}$  NMR spectrum of **5ah** ( $\text{CDCl}_3$ , 500 MHz)

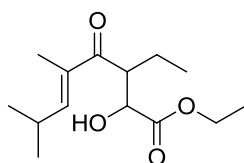
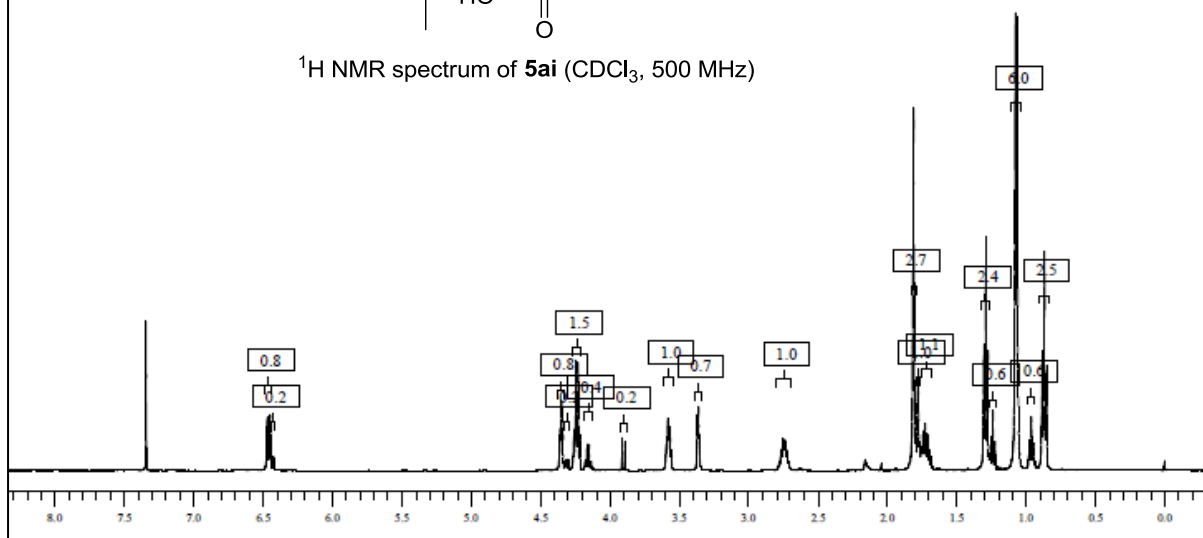


$^{13}\text{C}$  NMR spectrum of **5ah** ( $\text{CDCl}_3$ , 75 MHz)

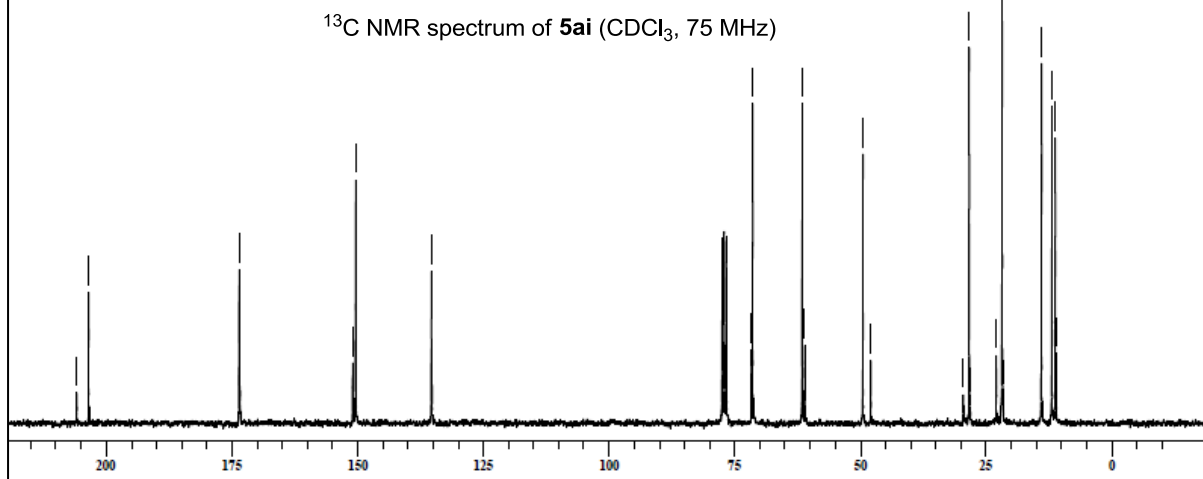


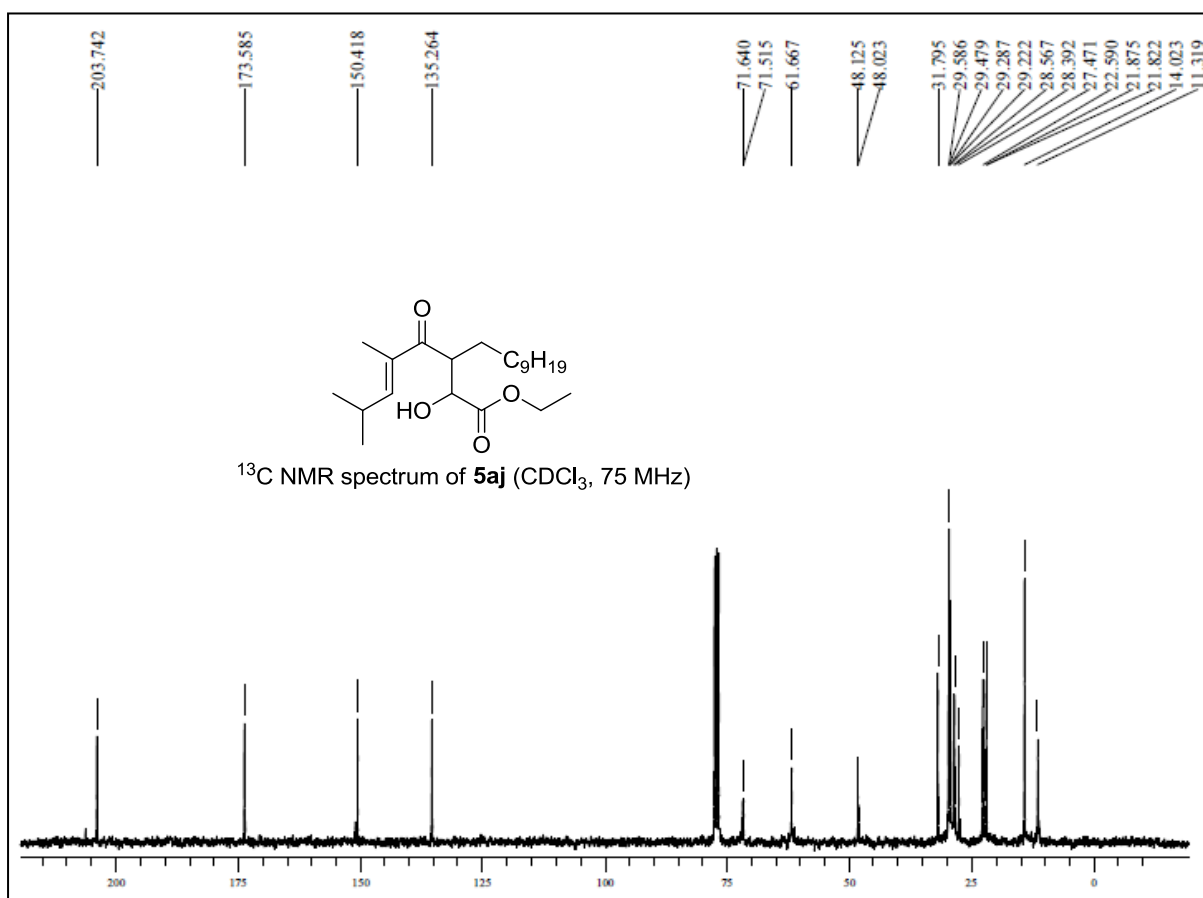
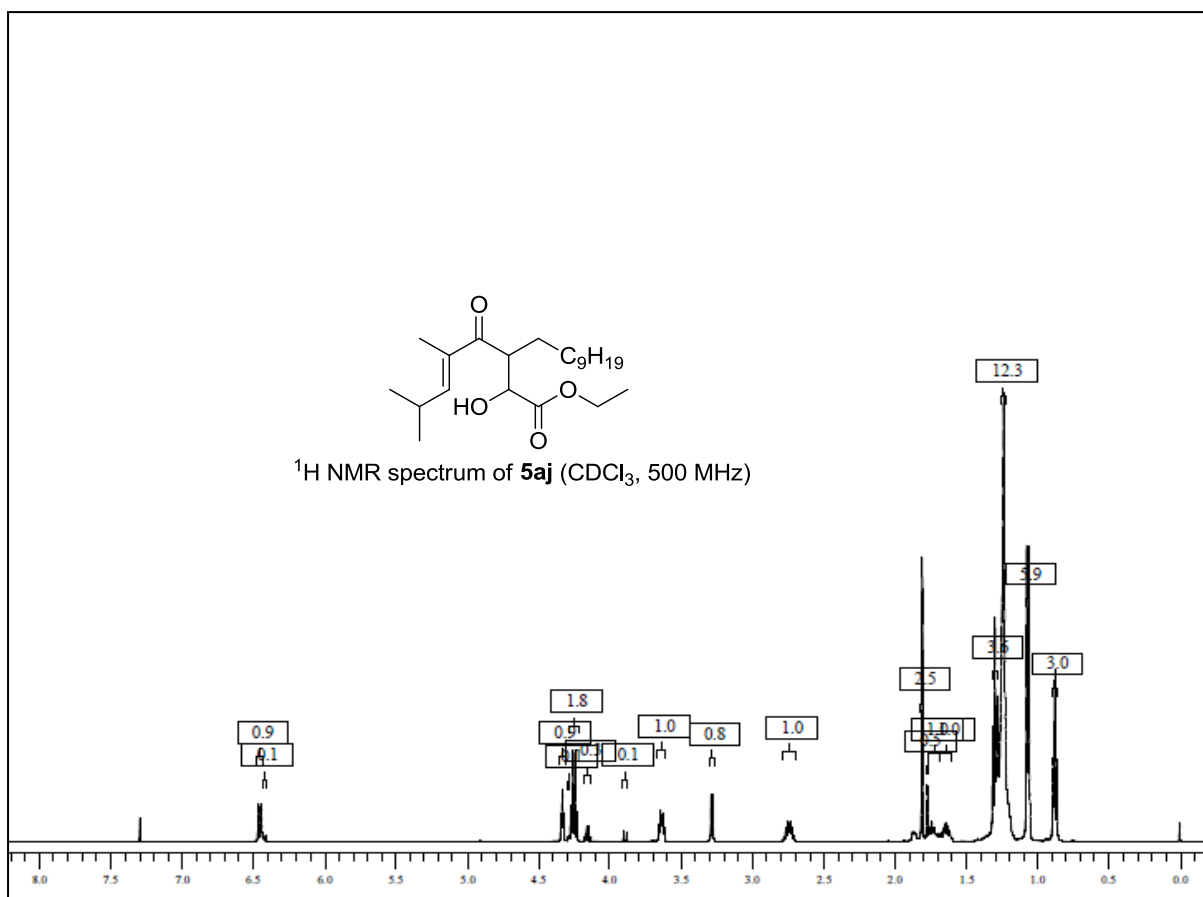


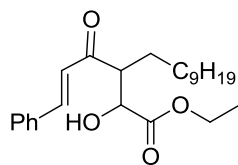
$^1\text{H}$  NMR spectrum of **5ai** ( $\text{CDCl}_3$ , 500 MHz)



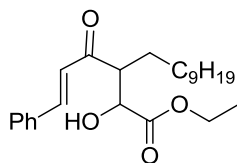
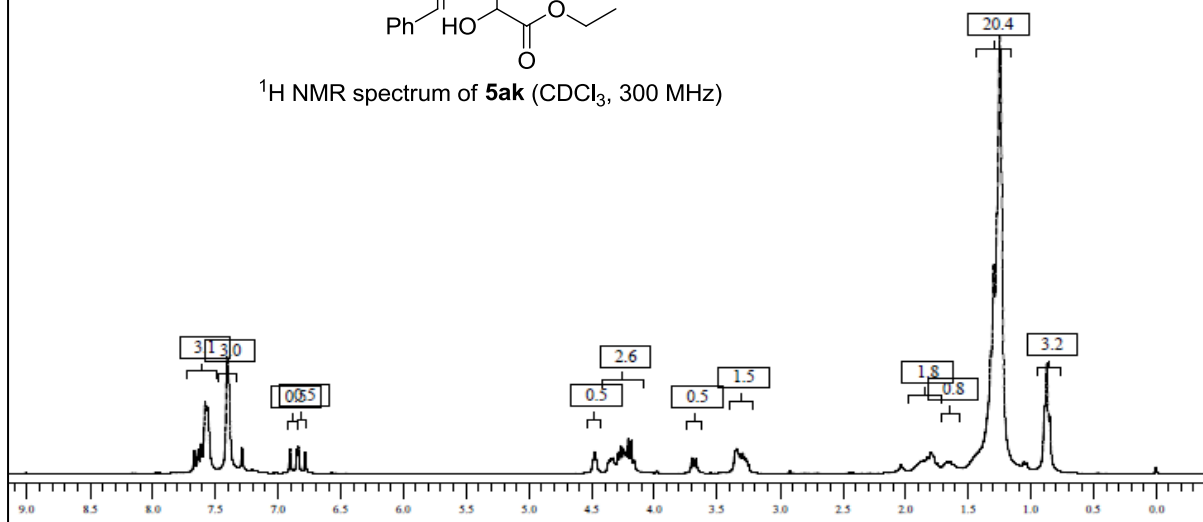
$^{13}\text{C}$  NMR spectrum of **5ai** ( $\text{CDCl}_3$ , 75 MHz)



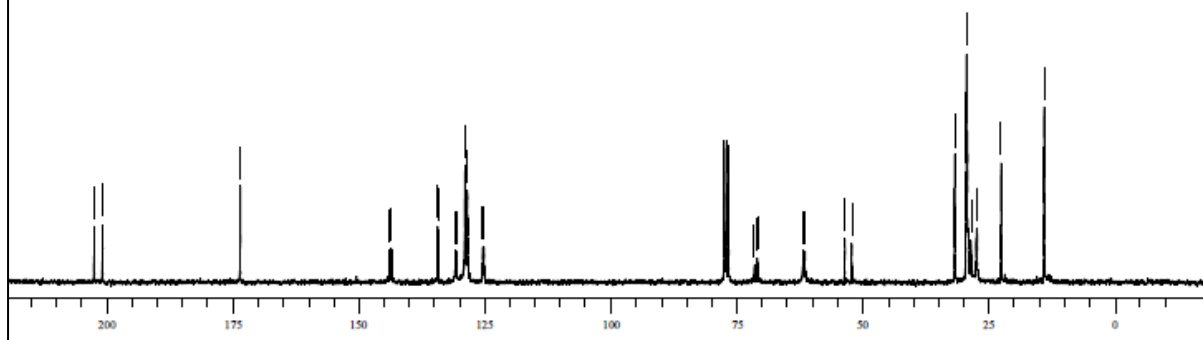


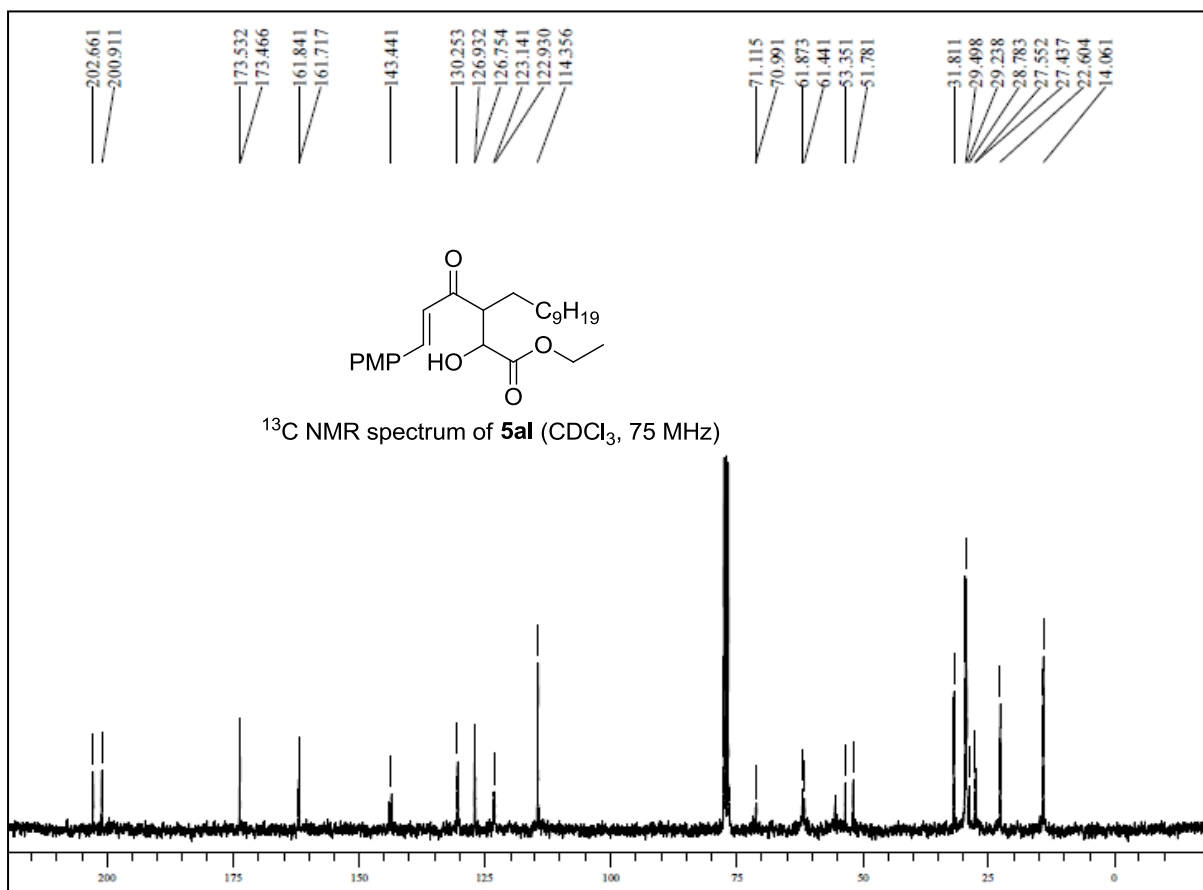
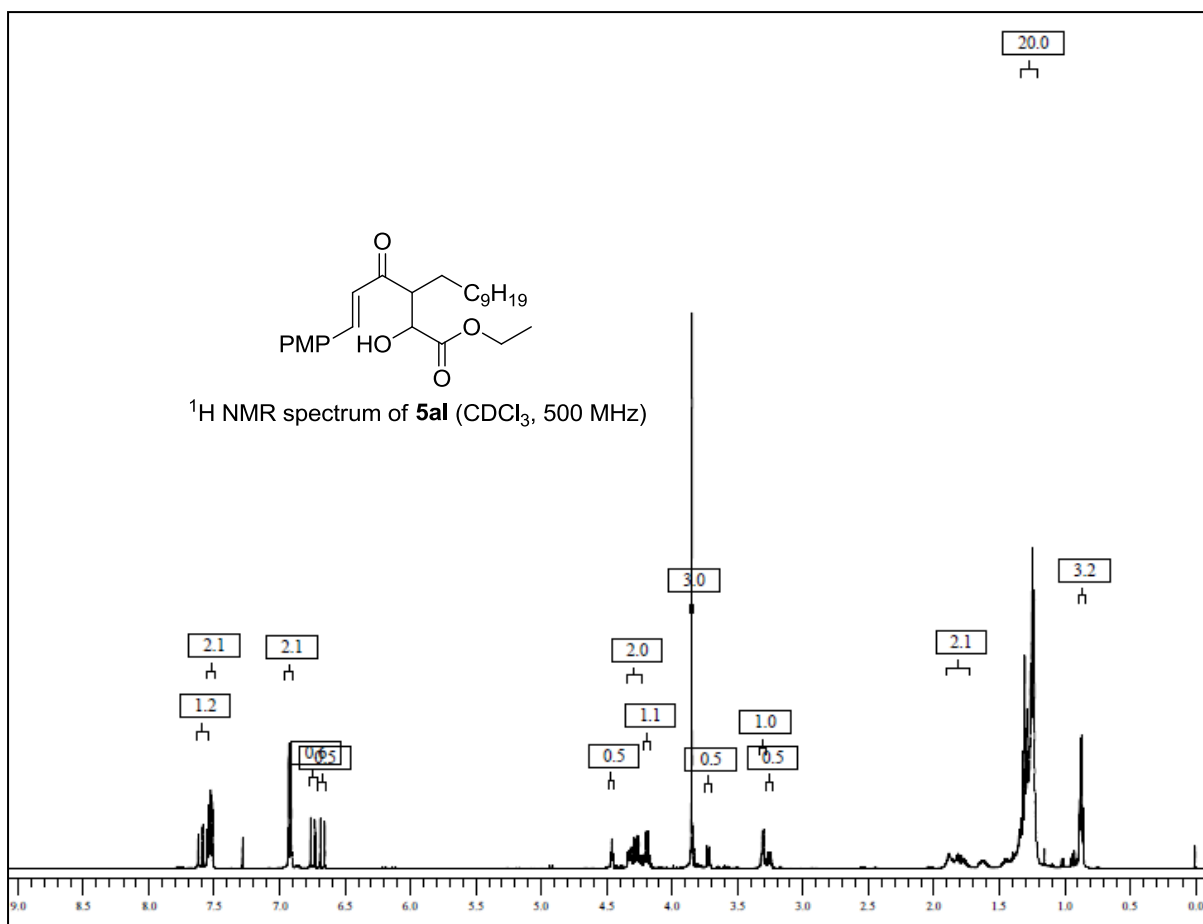


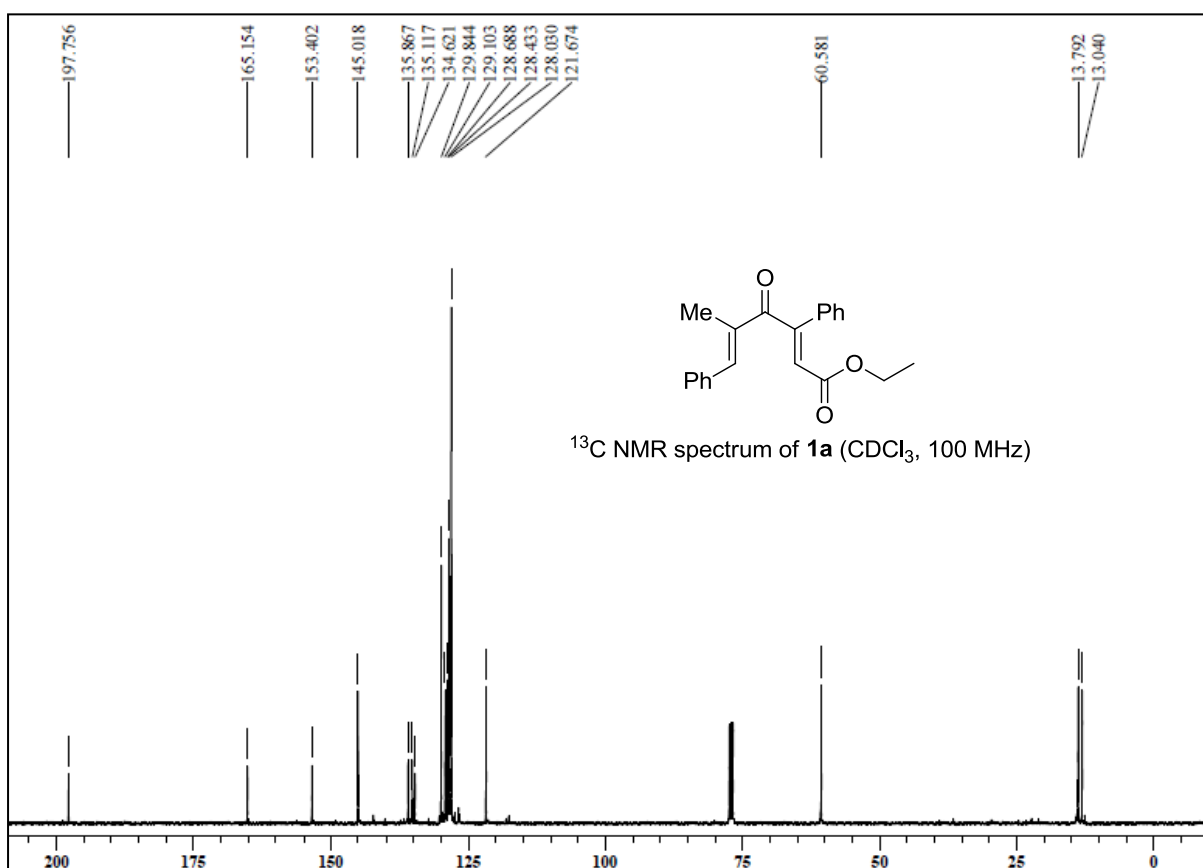
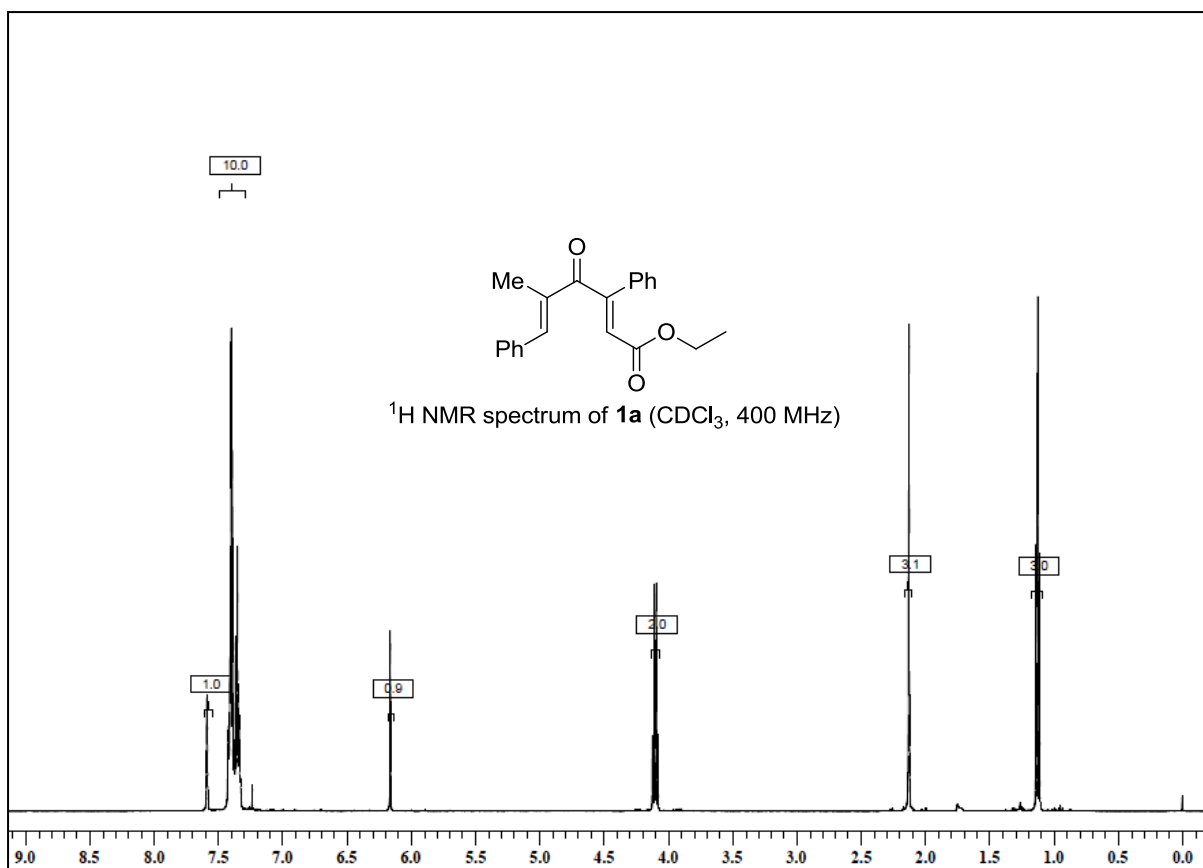
$^1\text{H}$  NMR spectrum of **5ak** ( $\text{CDCl}_3$ , 300 MHz)

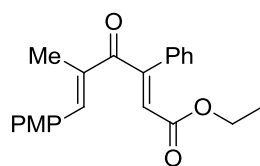


$^{13}\text{C}$  NMR spectrum of **5ak** ( $\text{CDCl}_3$ , 75 MHz)

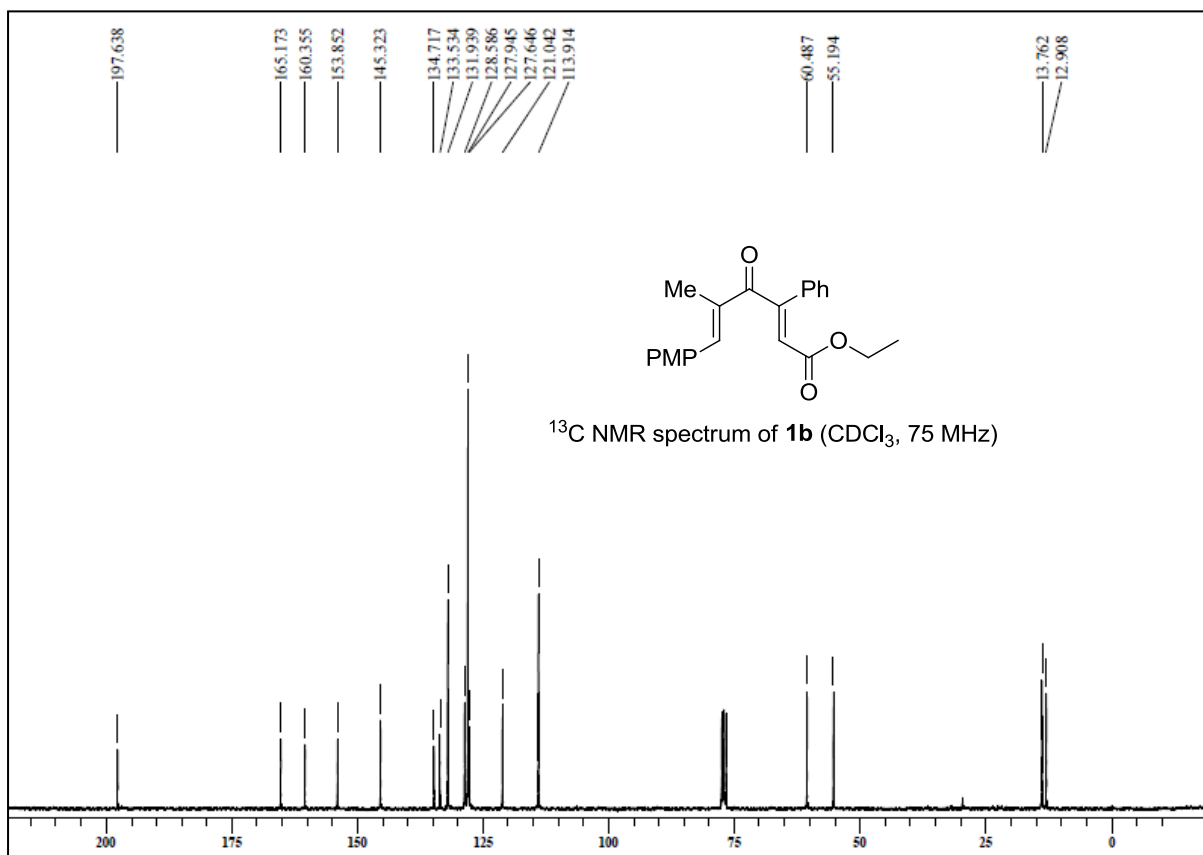
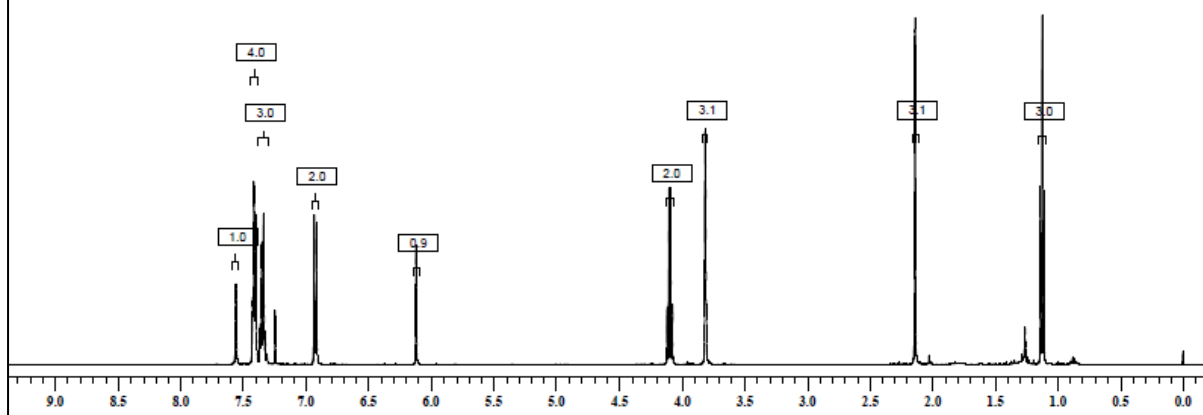


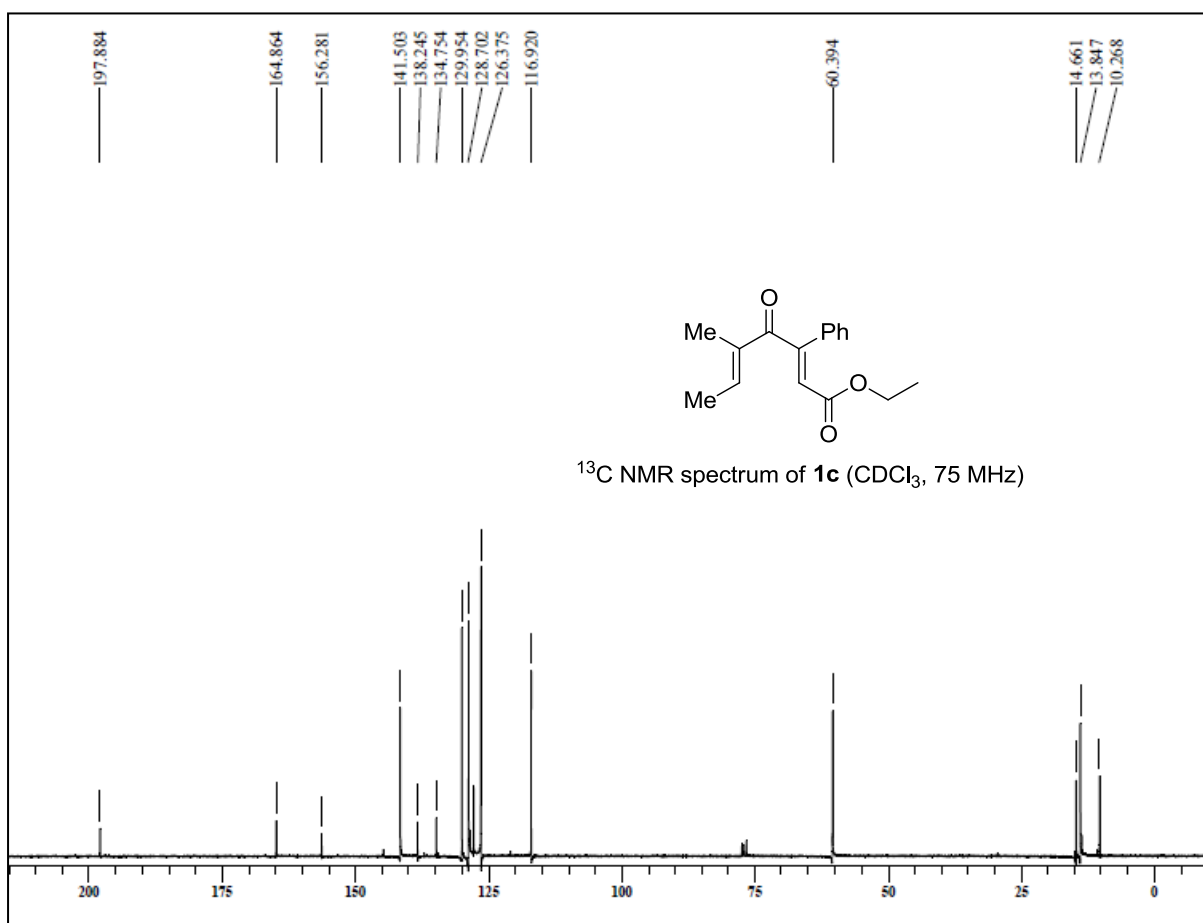
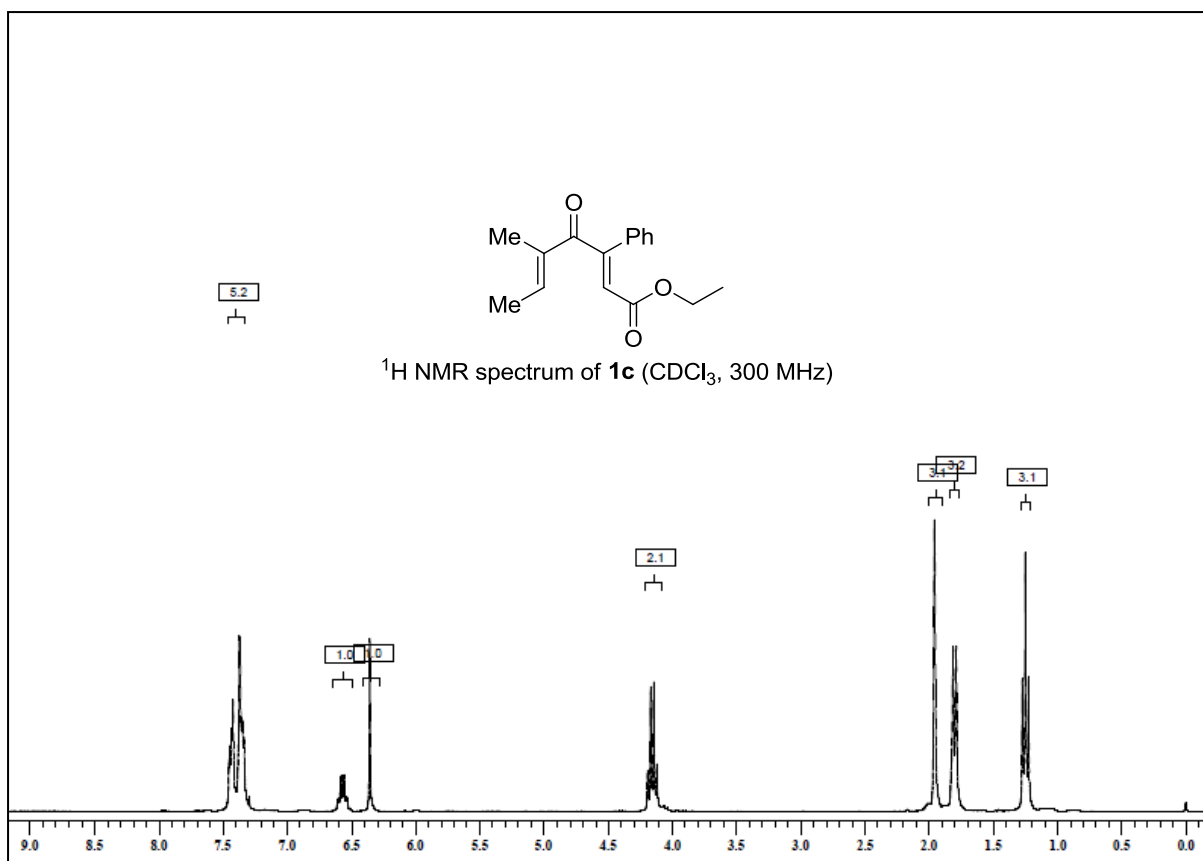




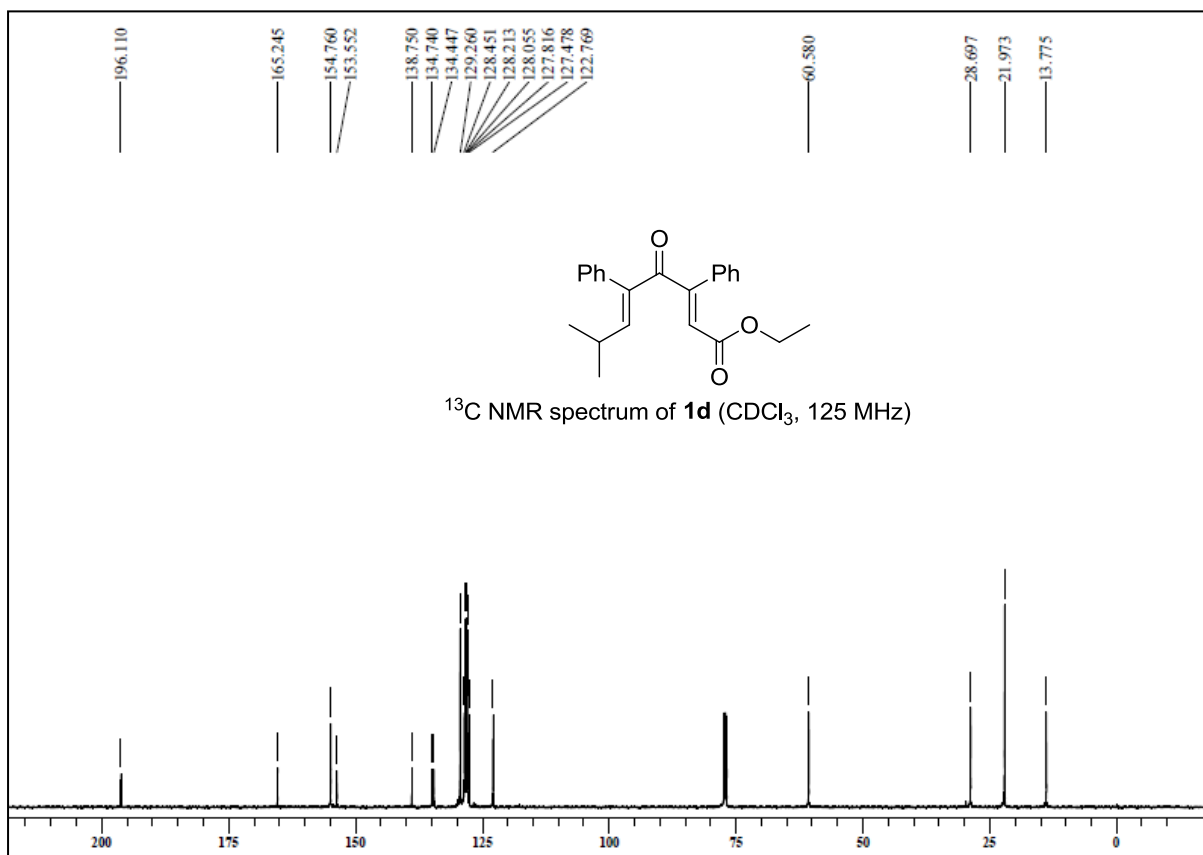
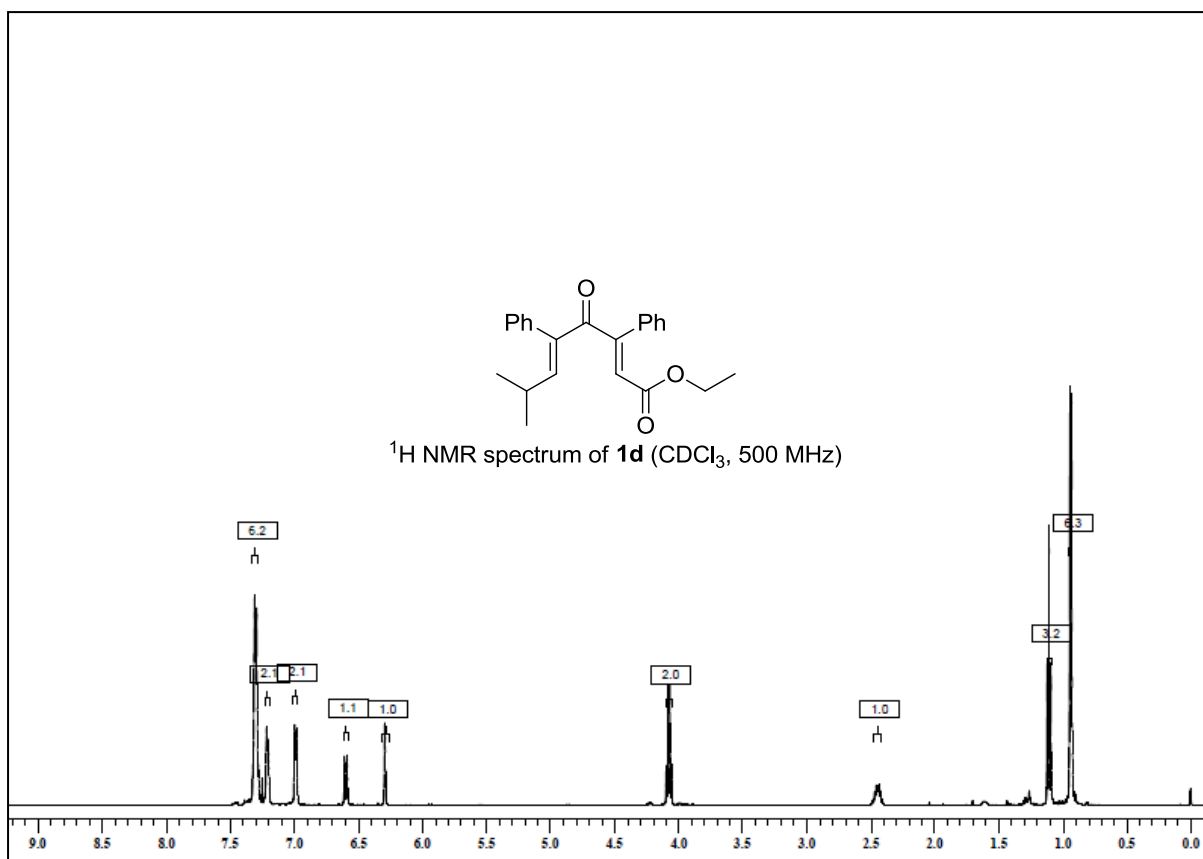


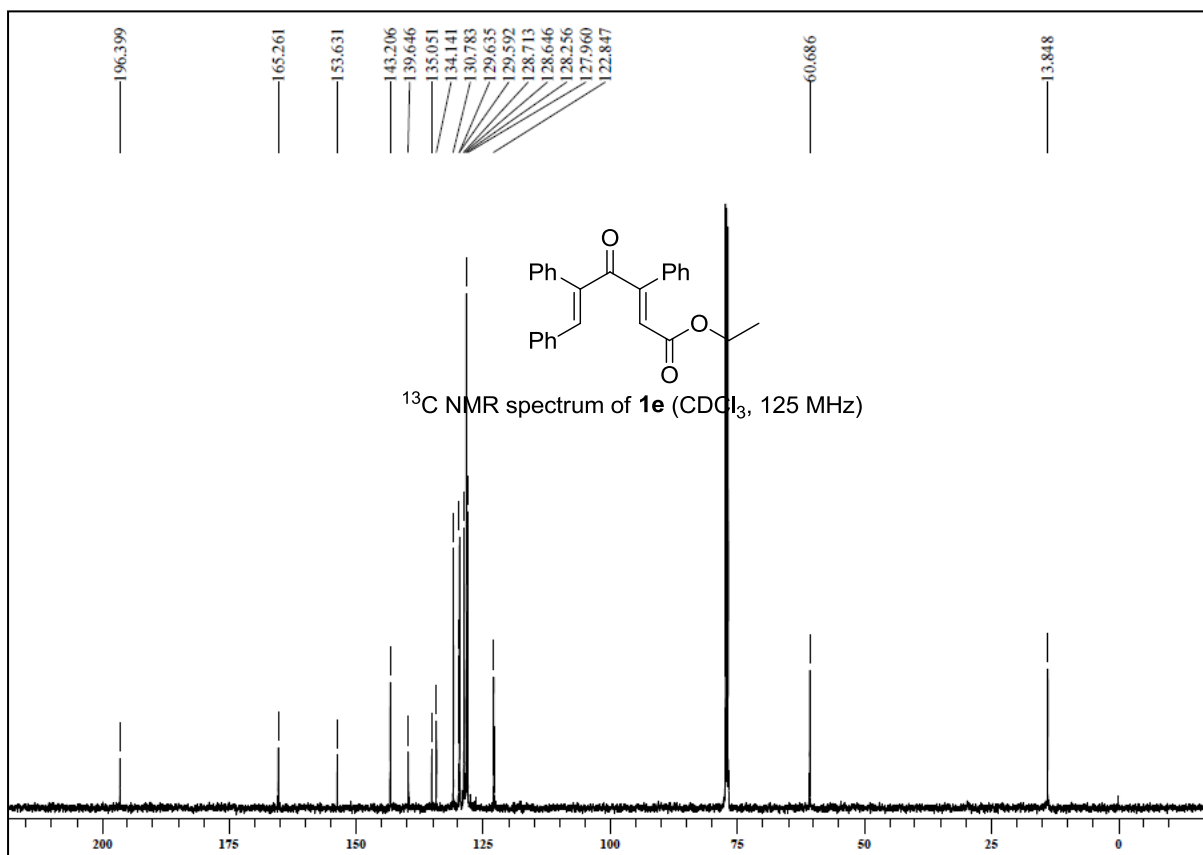
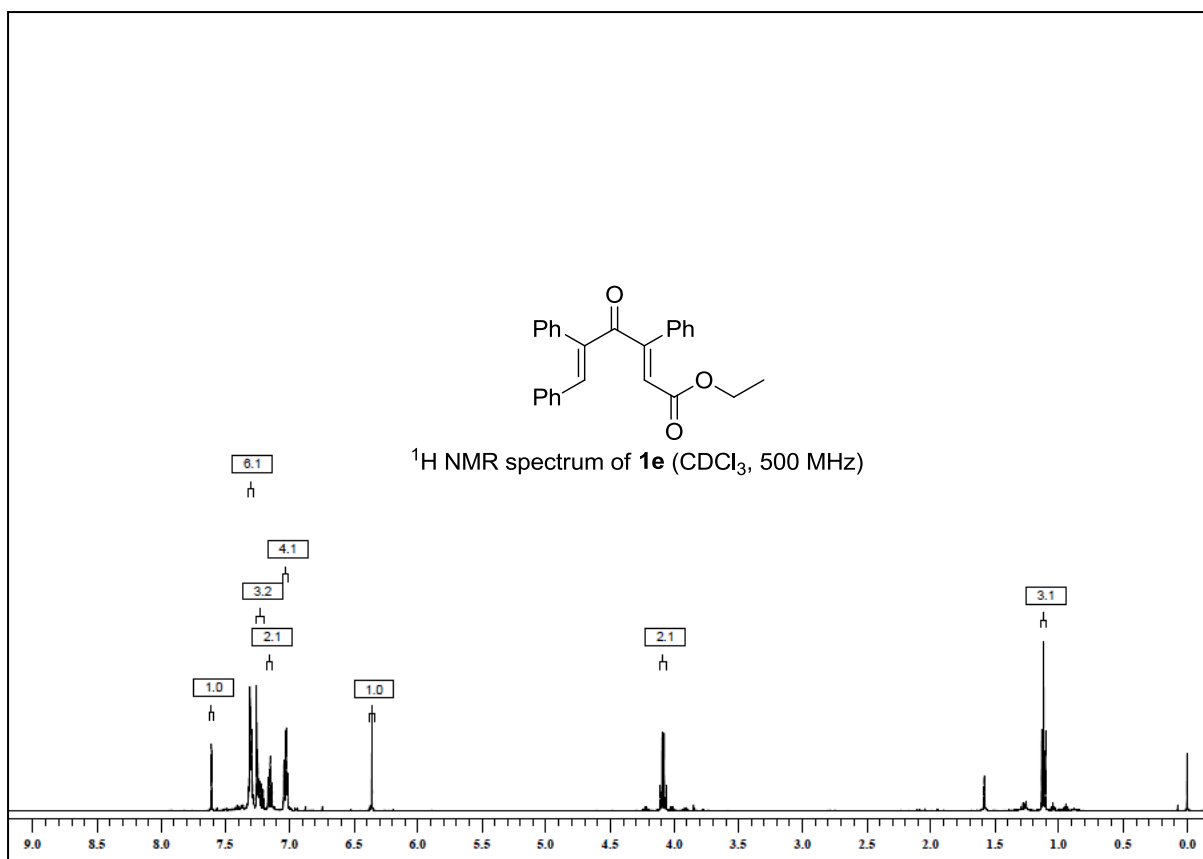
$^1\text{H}$  NMR spectrum of **1b** ( $\text{CDCl}_3$ , 500 MHz)

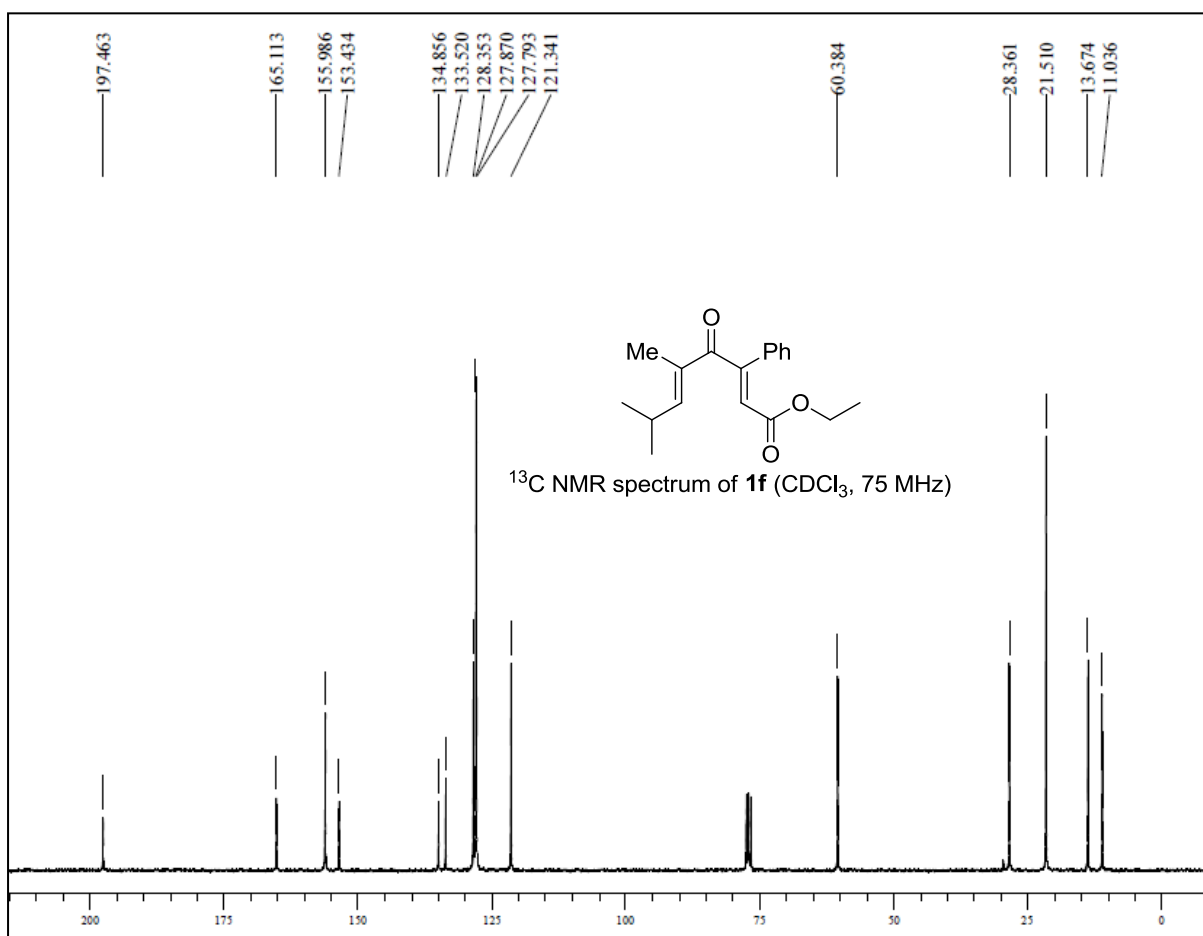
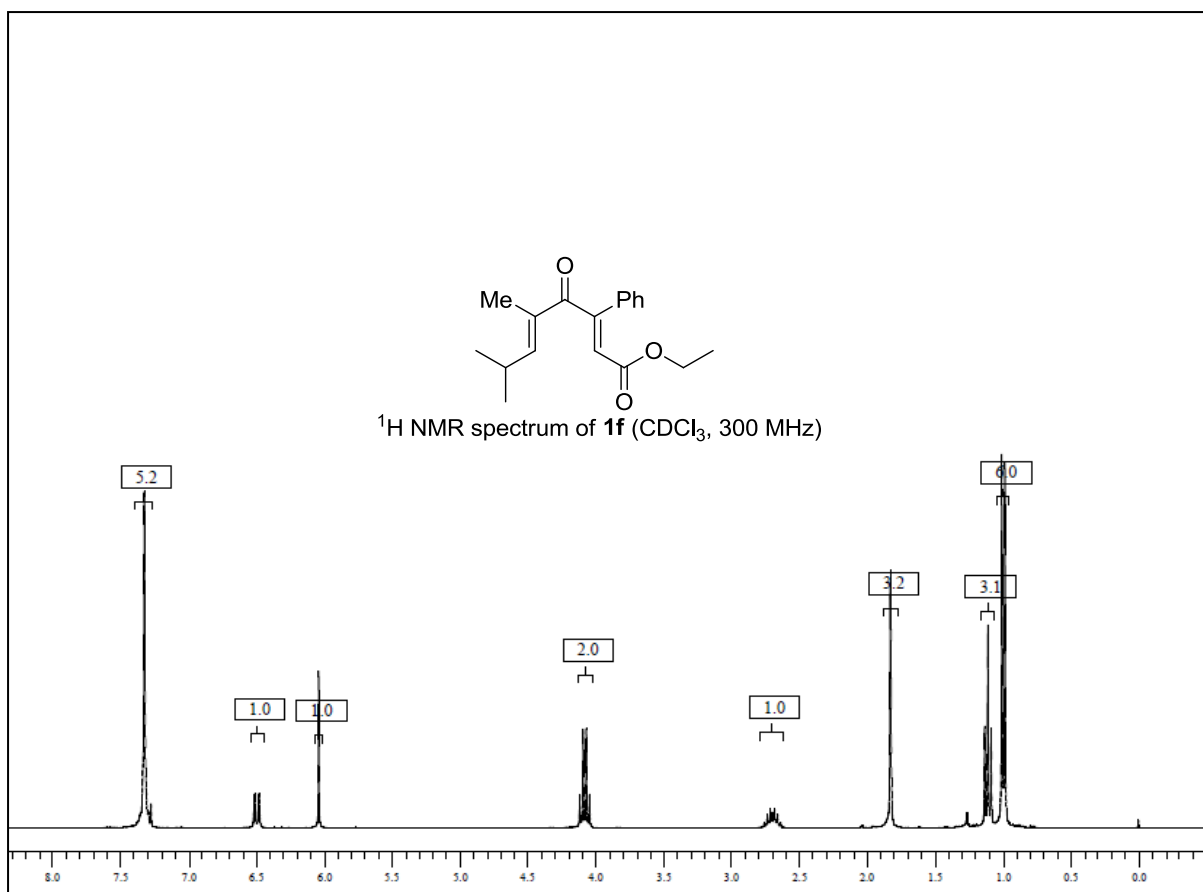


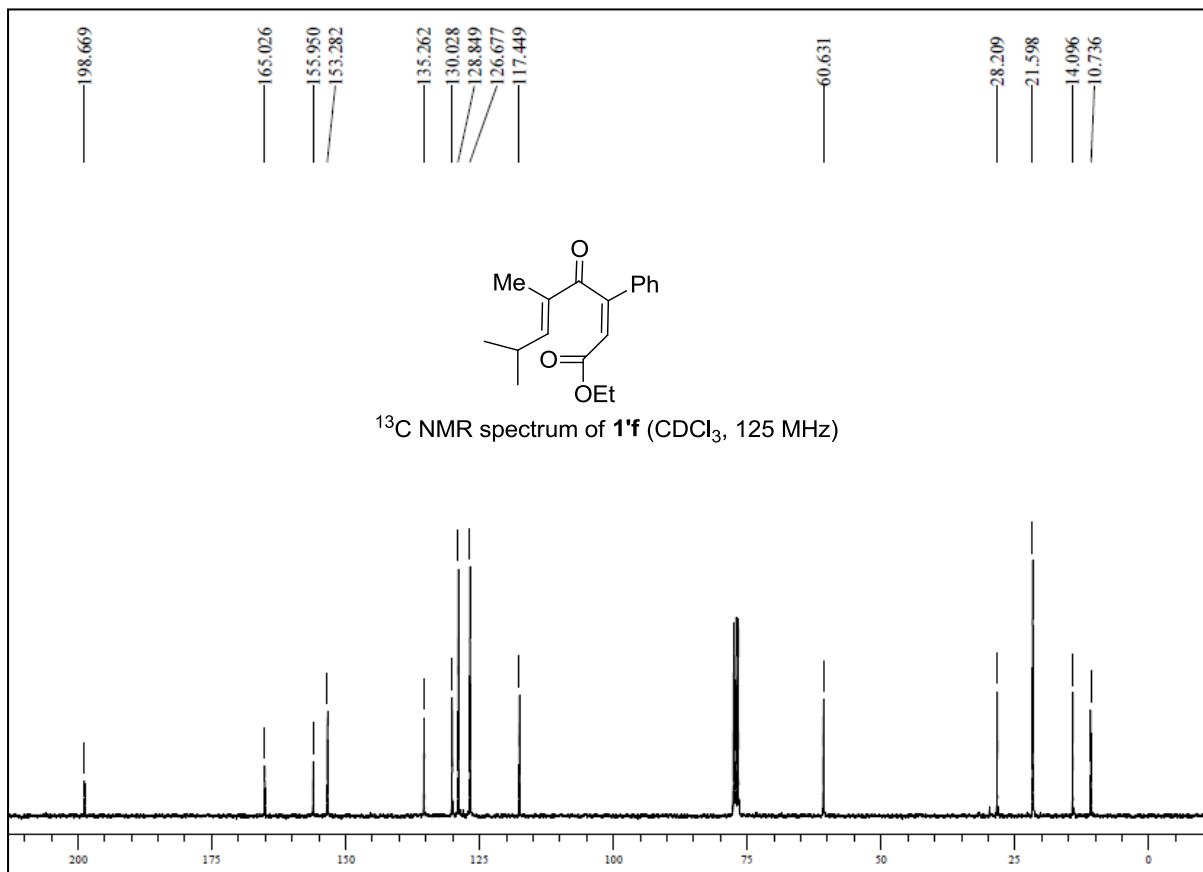
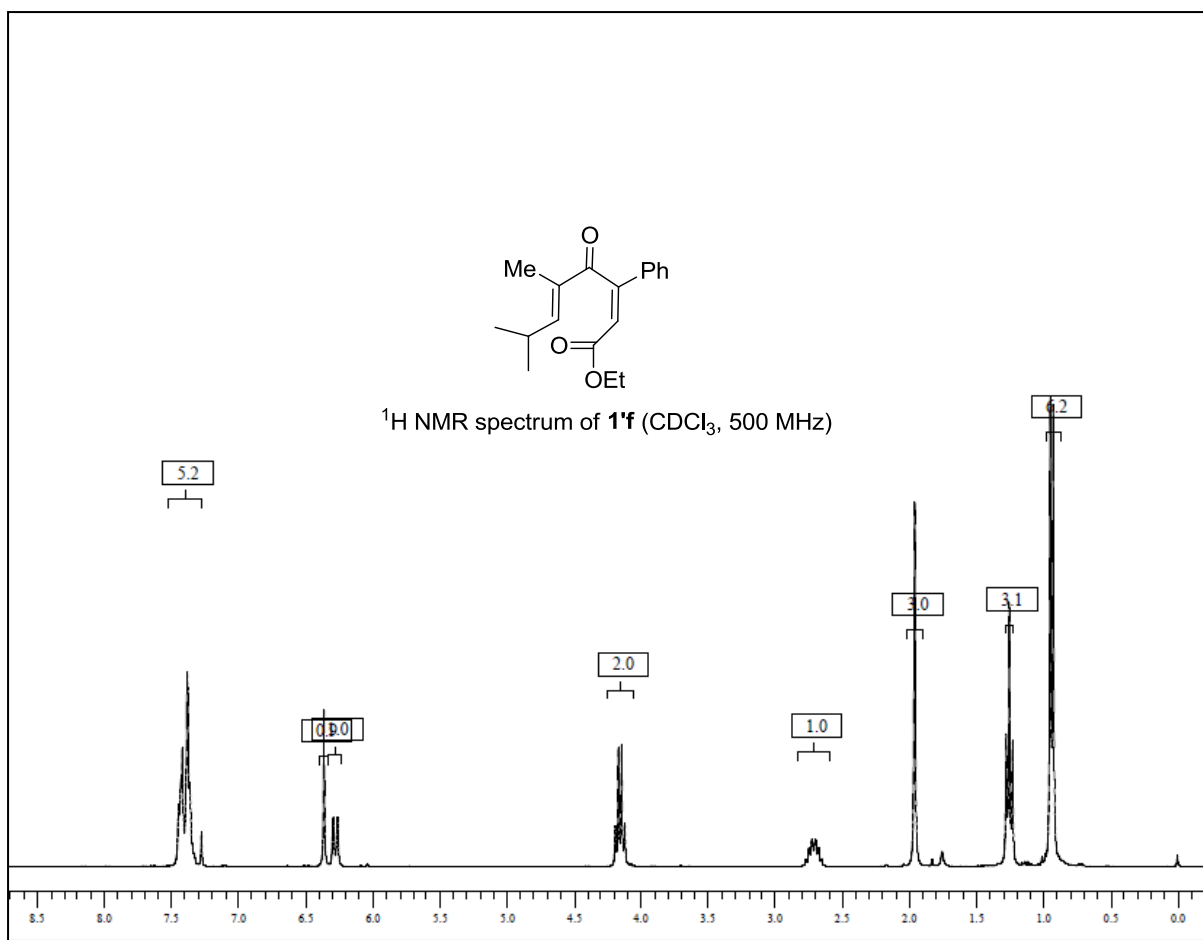


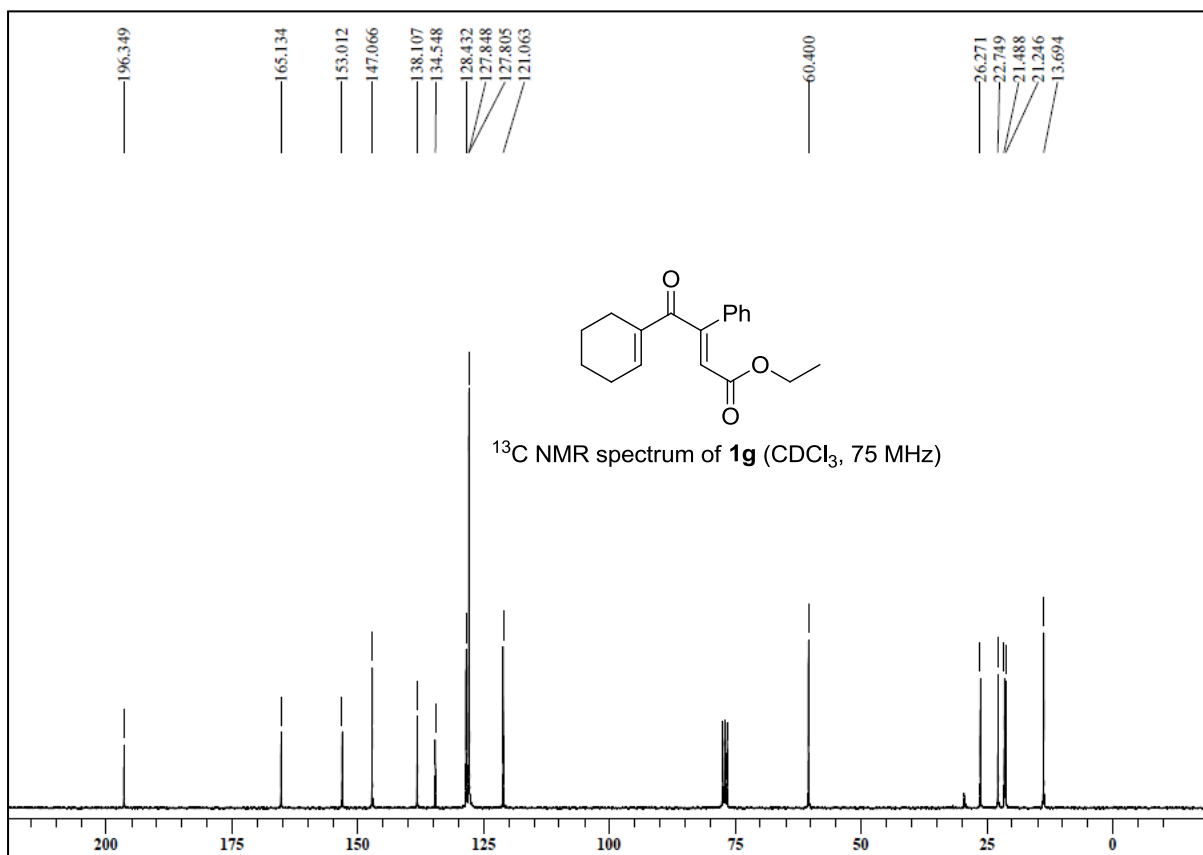
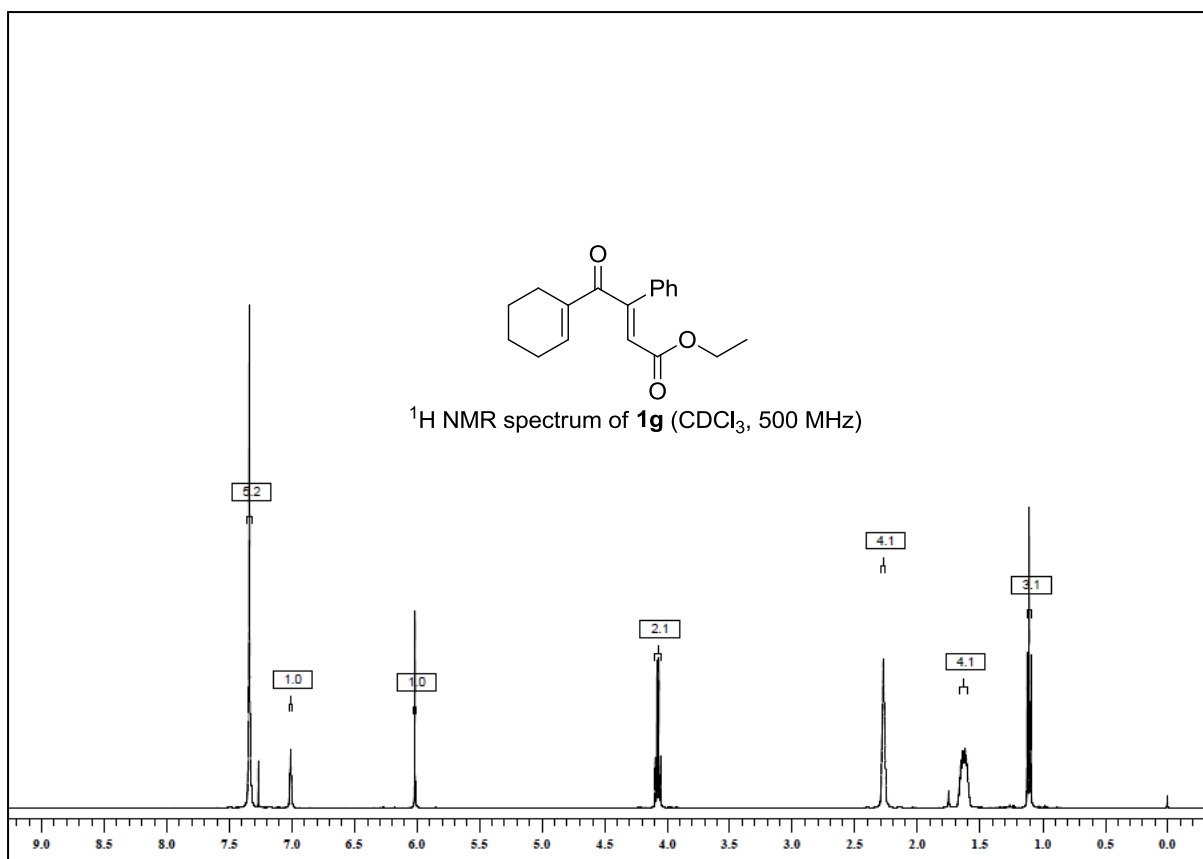


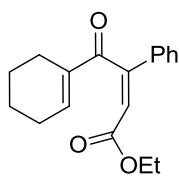




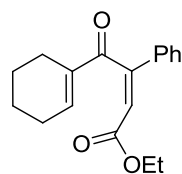
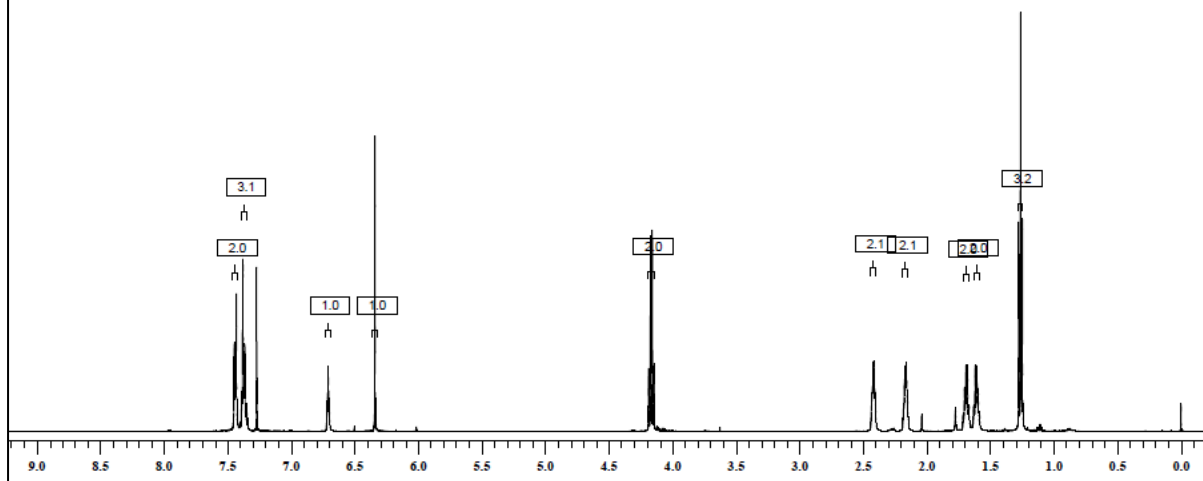




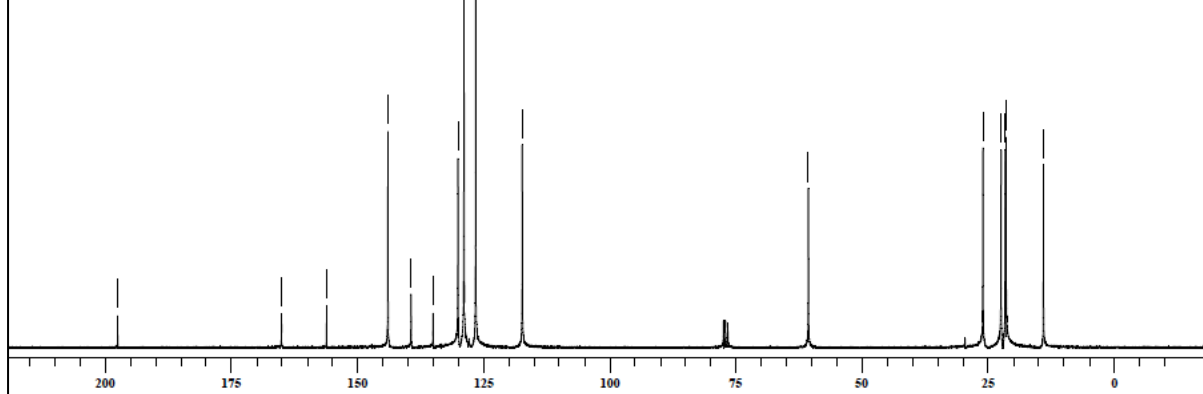


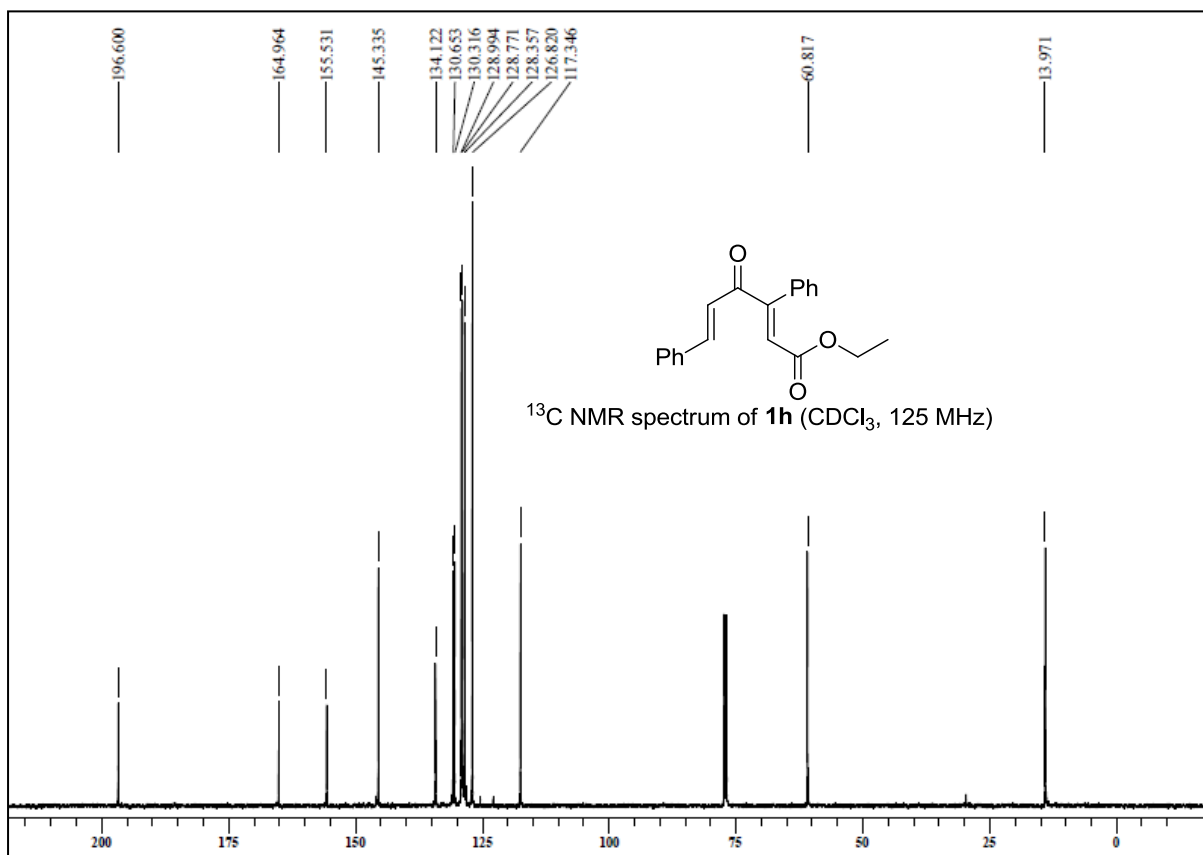
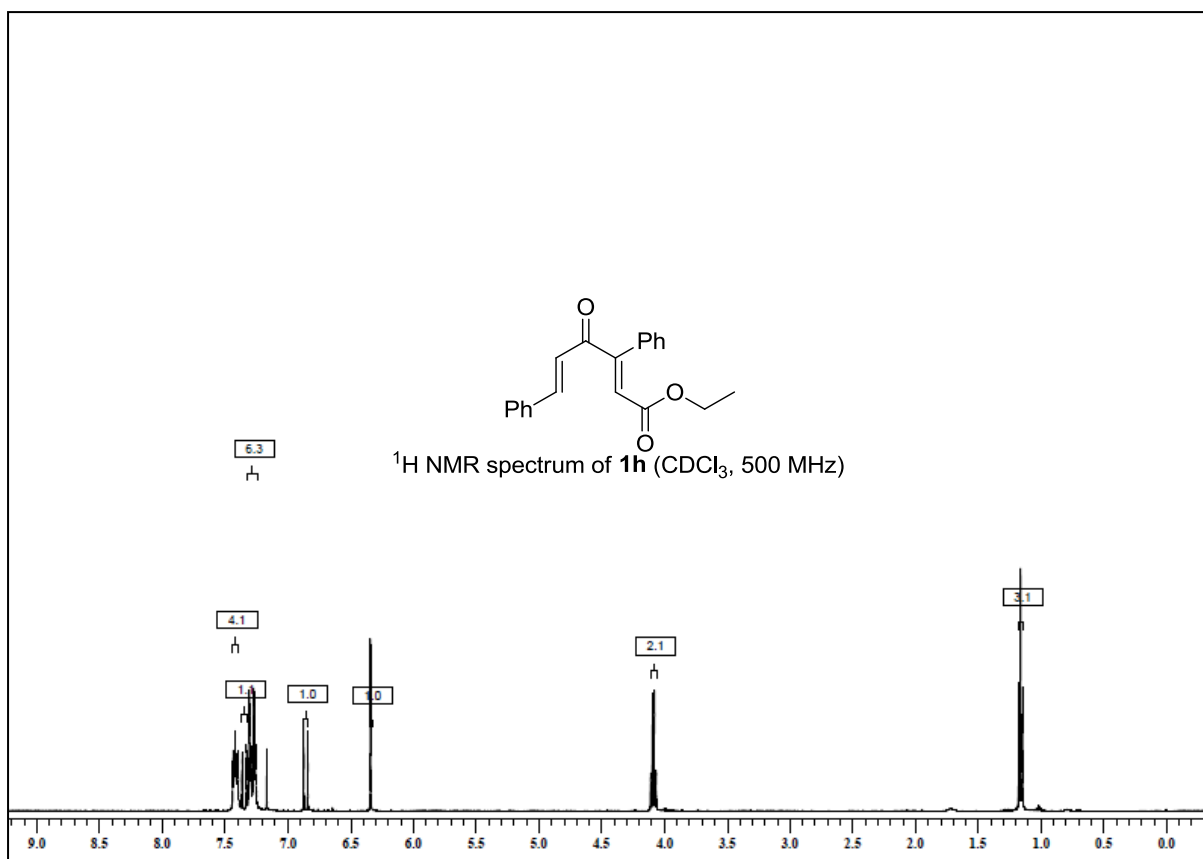


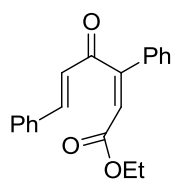
$^1\text{H}$  NMR spectrum of **1'g** ( $\text{CDCl}_3$ , 300 MHz)



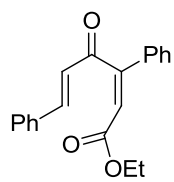
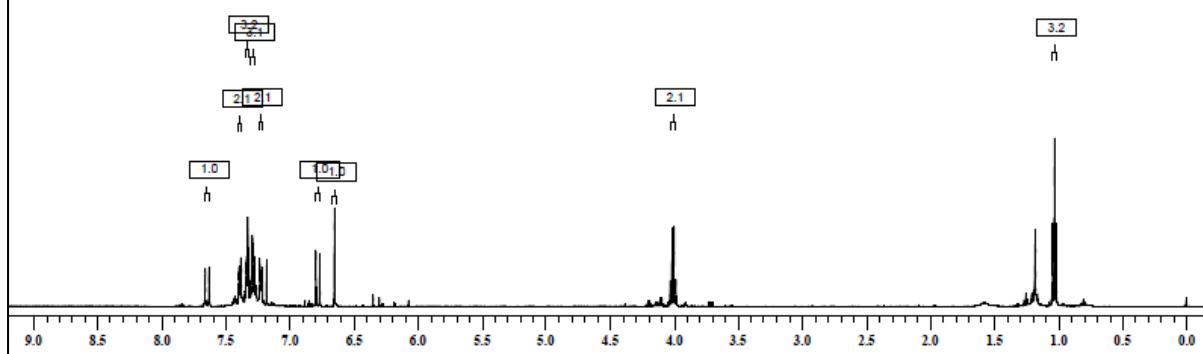
$^{13}\text{C}$  NMR spectrum of **1'g** ( $\text{CDCl}_3$ , 75 MHz)



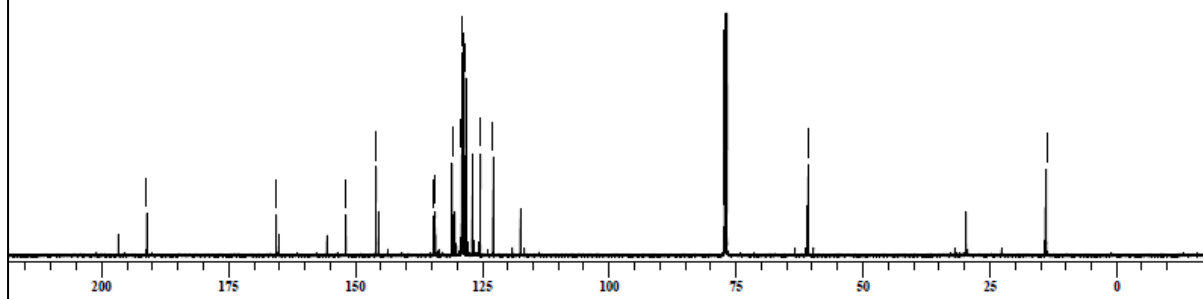




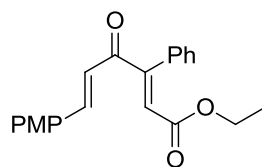
$^1\text{H}$  NMR spectrum of **1'h** ( $\text{CDCl}_3$ , 500 MHz)



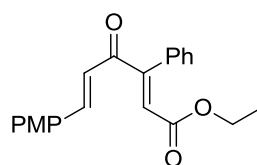
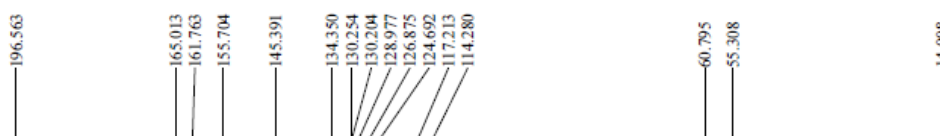
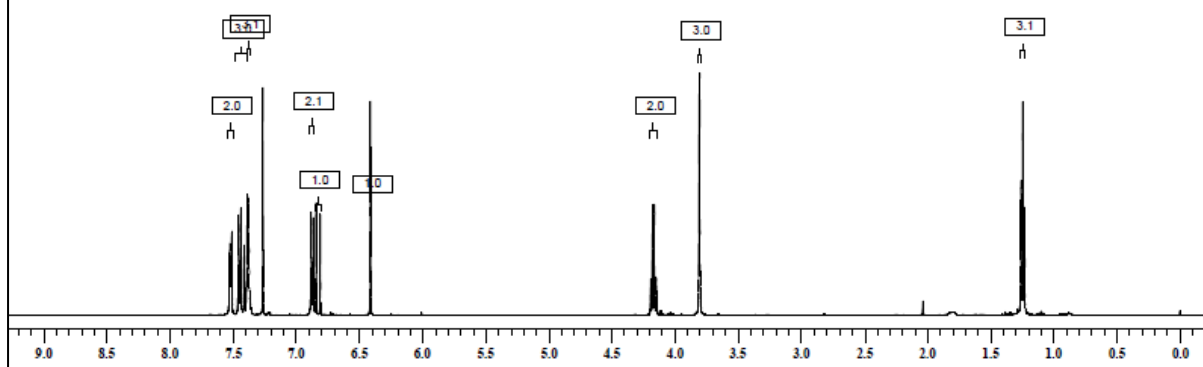
$^{13}\text{C}$  NMR spectrum of **1'h** ( $\text{CDCl}_3$ , 125 MHz)



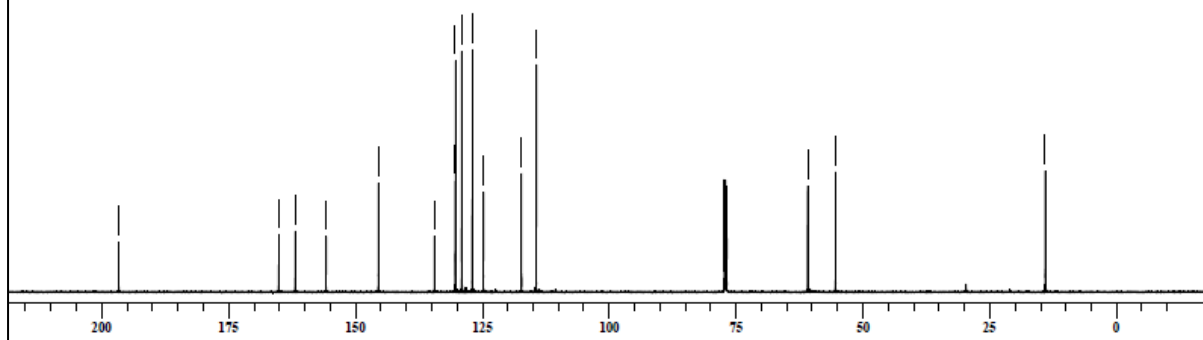


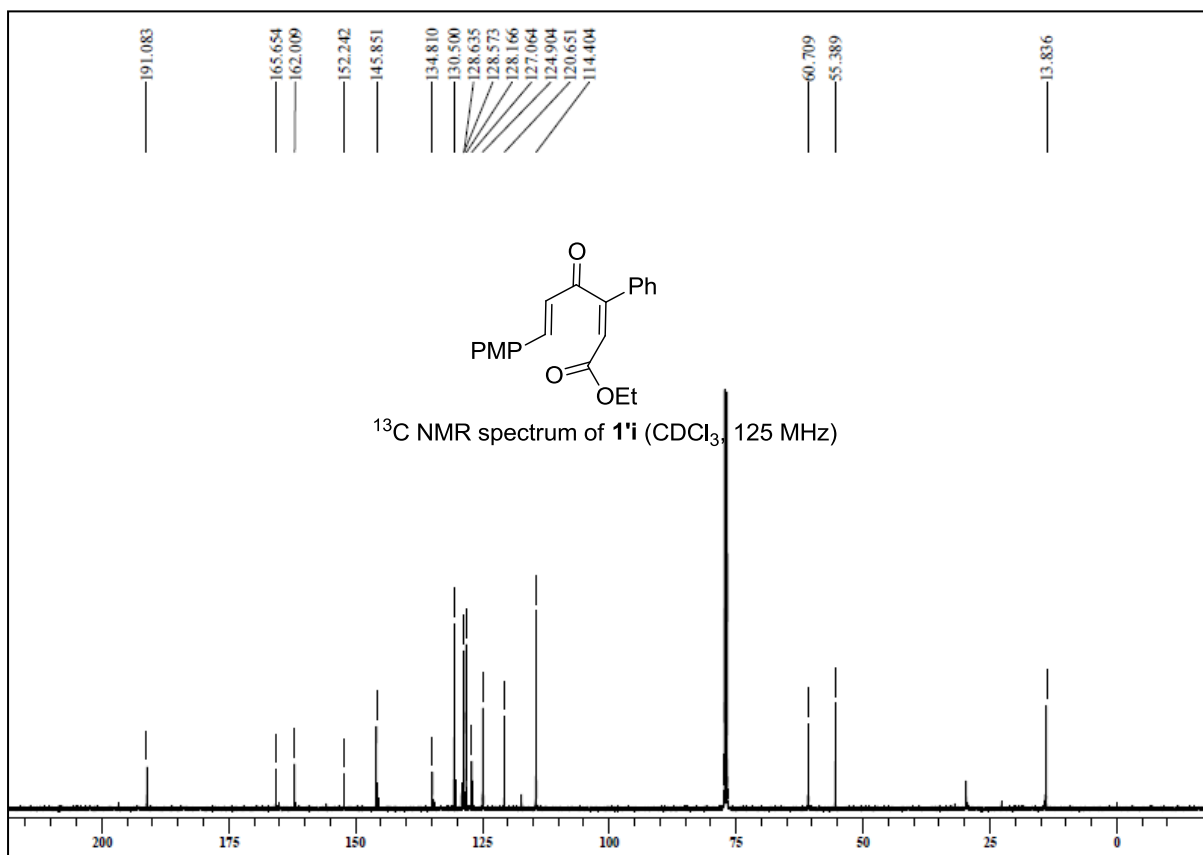
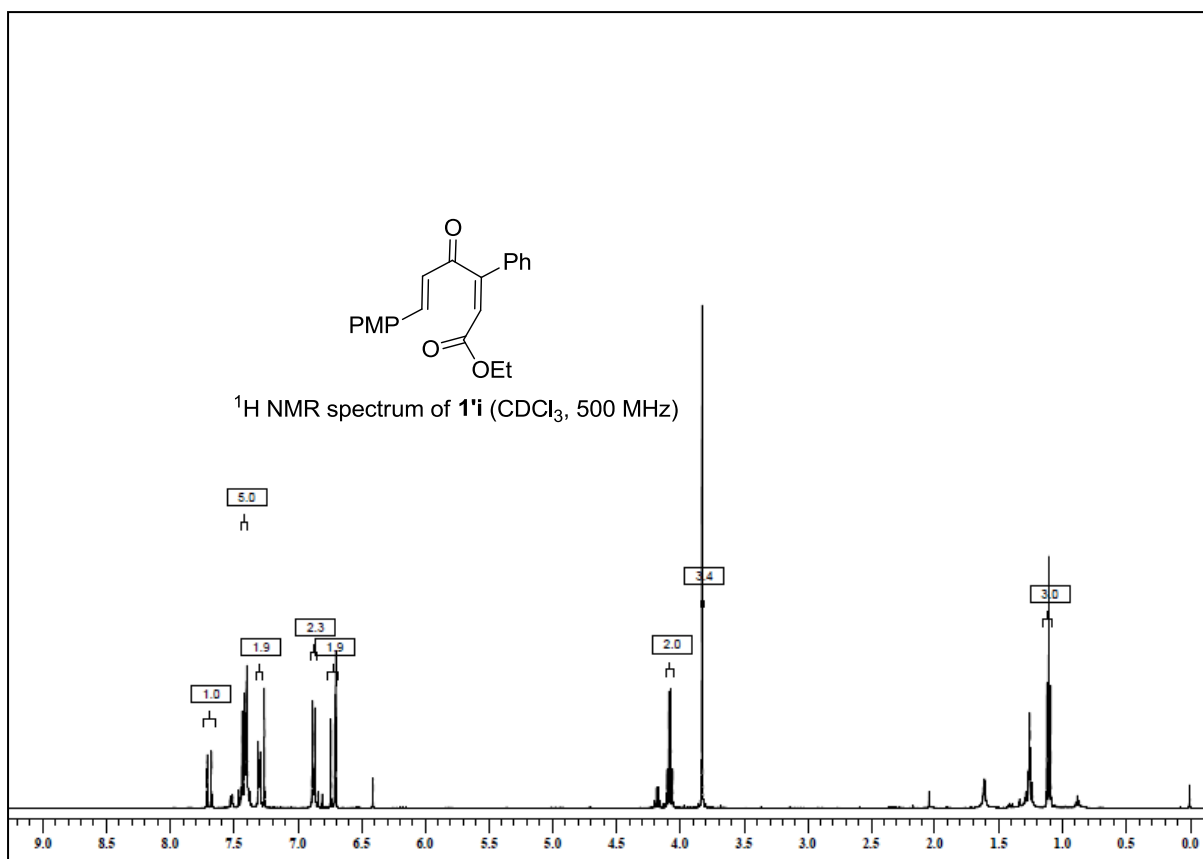


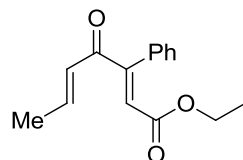
$^1\text{H}$  NMR spectrum of **1i** ( $\text{CDCl}_3$ , 500 MHz)



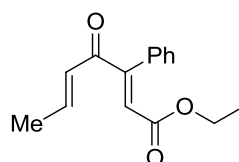
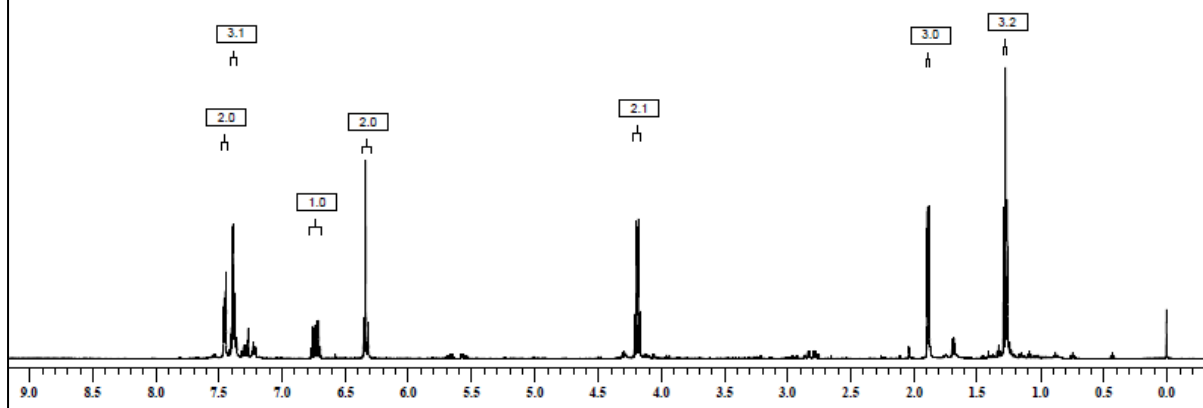
$^{13}\text{C}$  NMR spectrum of **1i** ( $\text{CDCl}_3$ , 125 MHz)



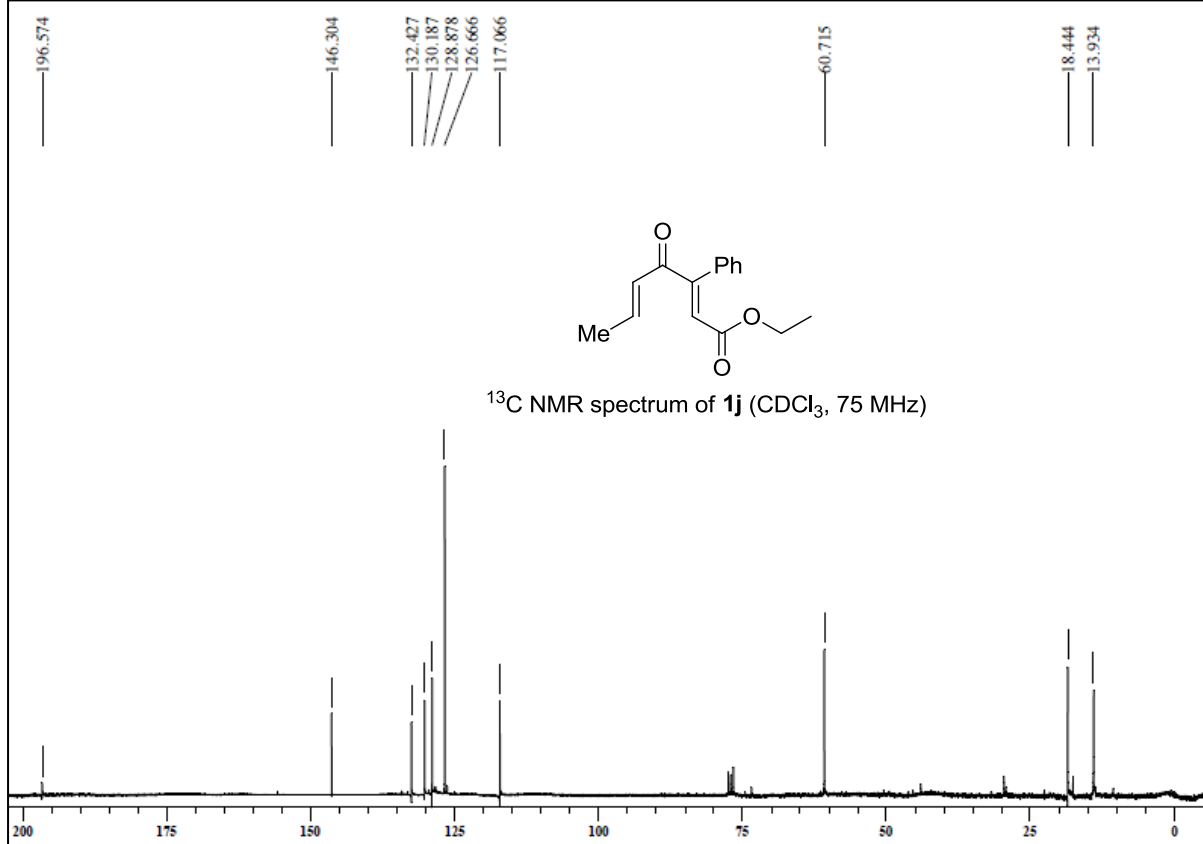


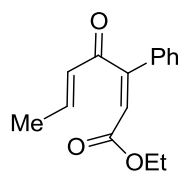


$^1\text{H}$  NMR spectrum of **1j** ( $\text{CDCl}_3$ , 500 MHz)

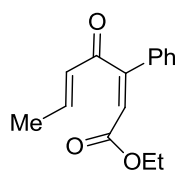
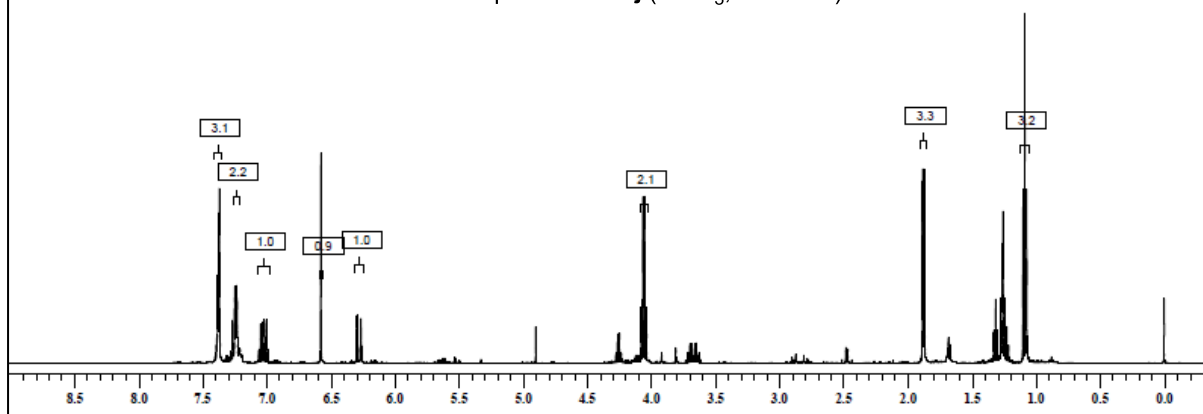


$^{13}\text{C}$  NMR spectrum of **1j** ( $\text{CDCl}_3$ , 75 MHz)

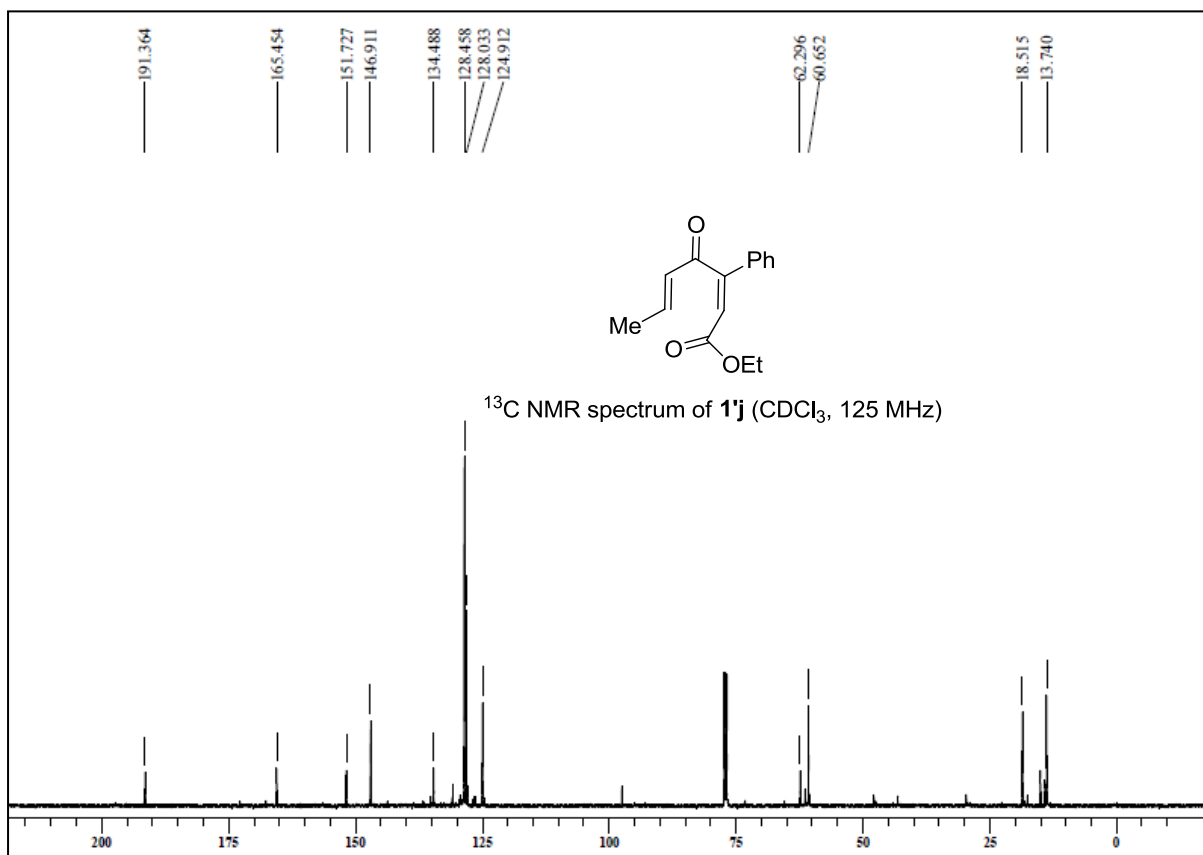


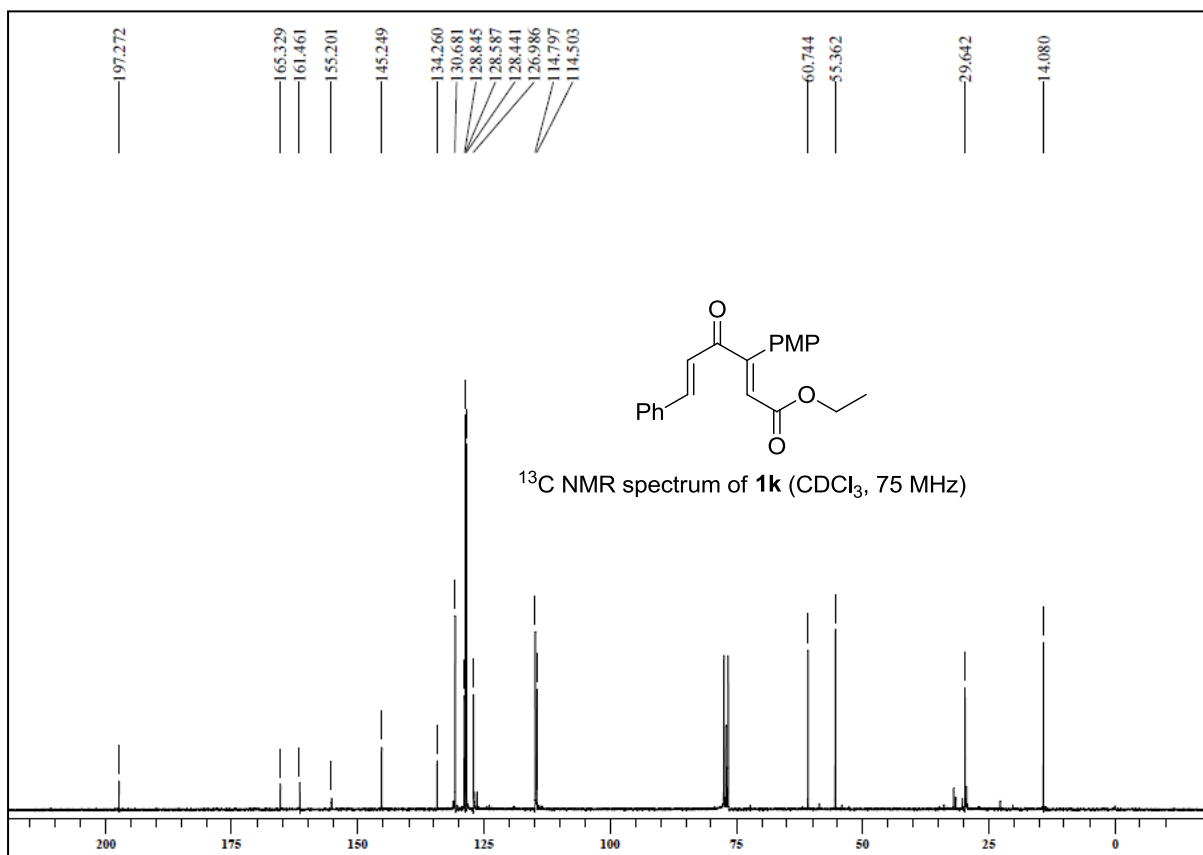
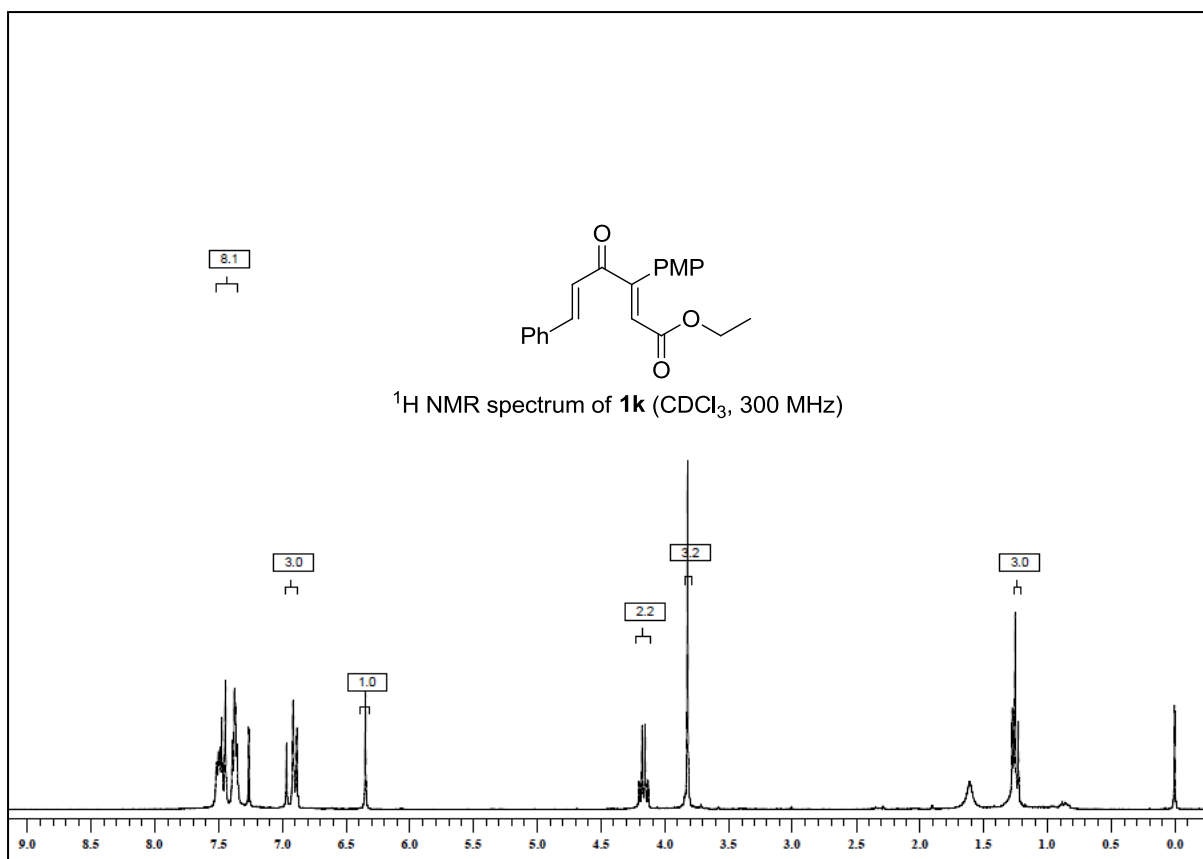


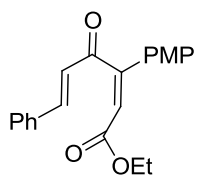
$^1\text{H}$  NMR spectrum of **1j** ( $\text{CDCl}_3$ , 500 MHz)



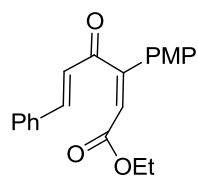
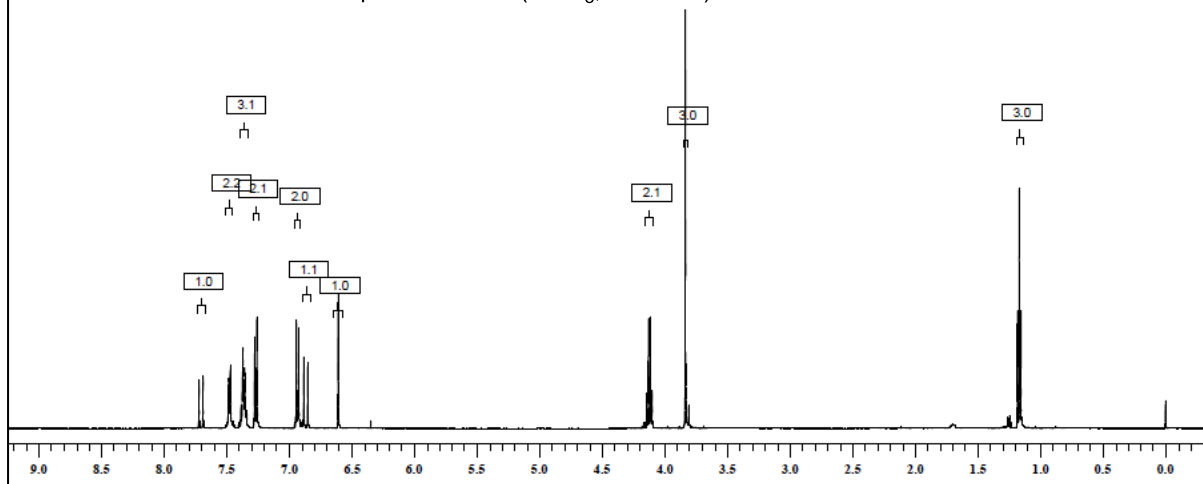
$^{13}\text{C}$  NMR spectrum of **1j** ( $\text{CDCl}_3$ , 125 MHz)



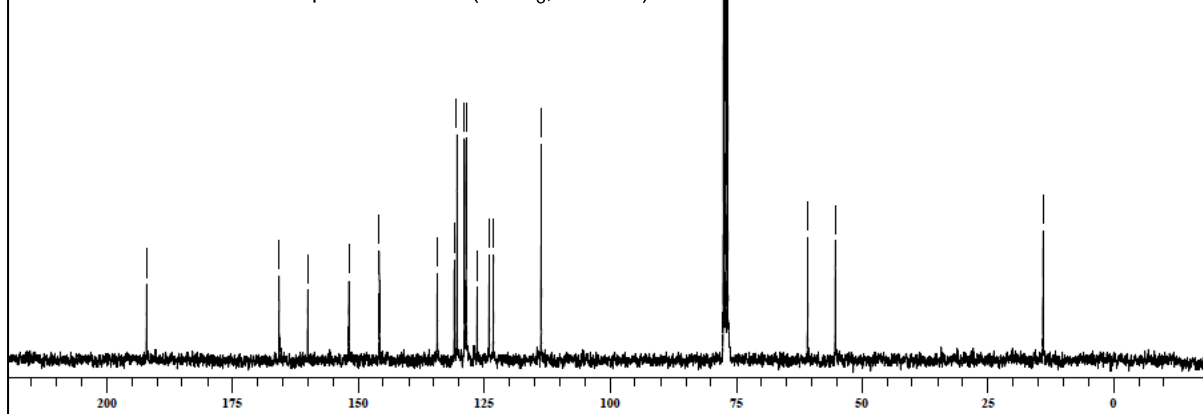


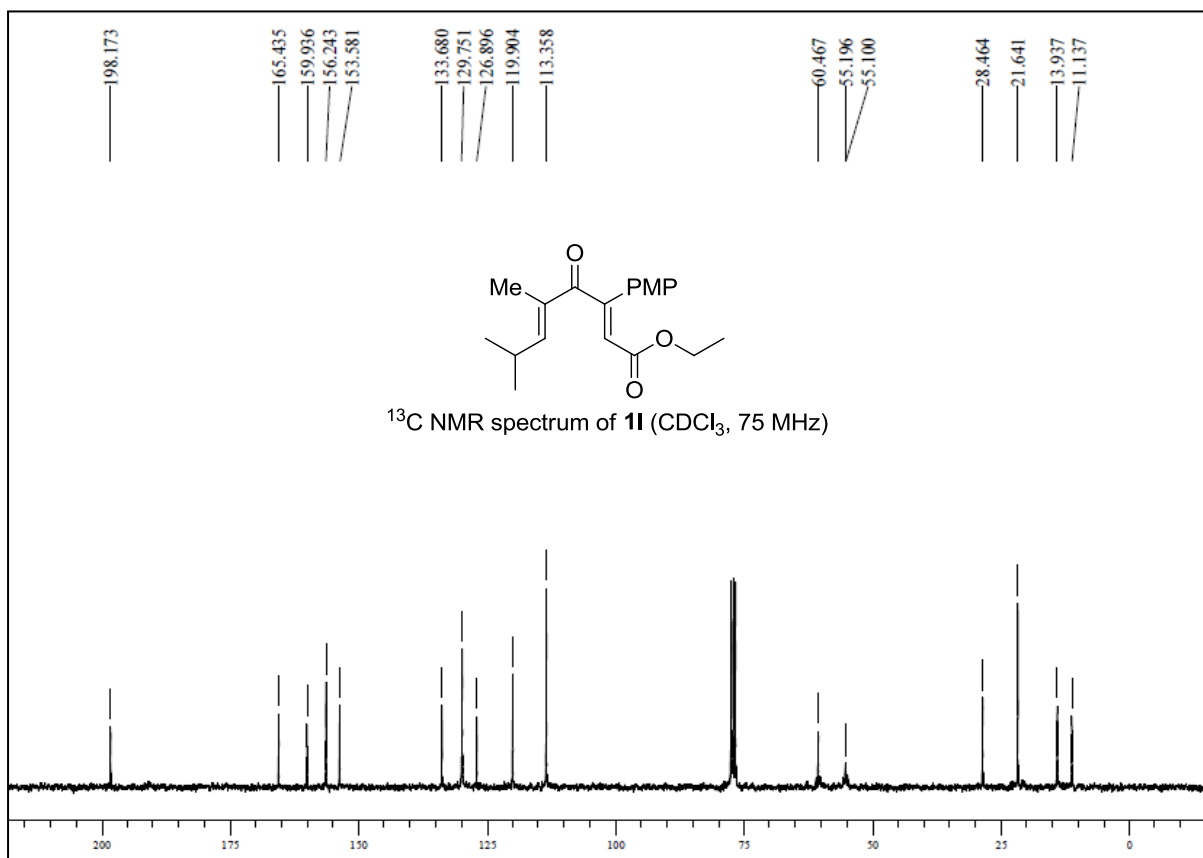
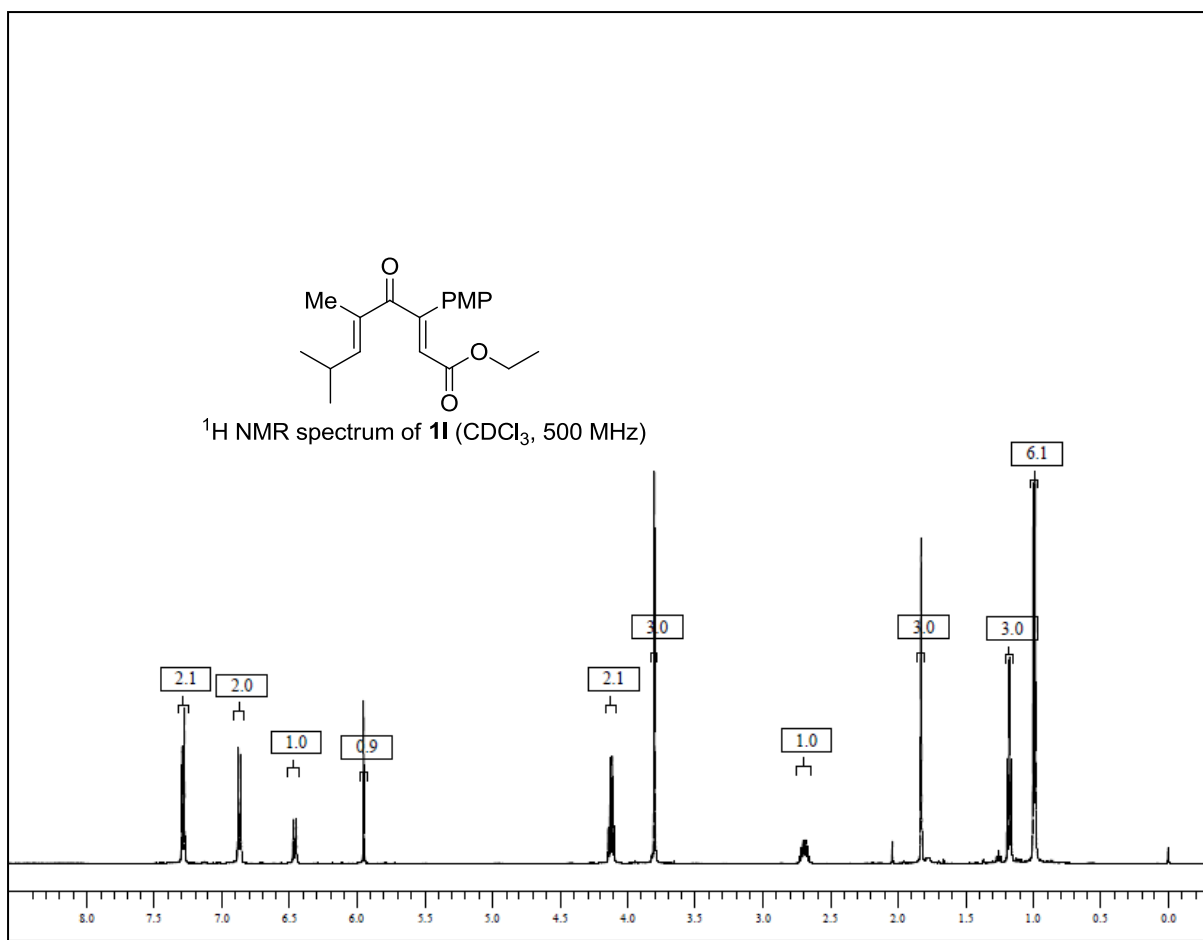


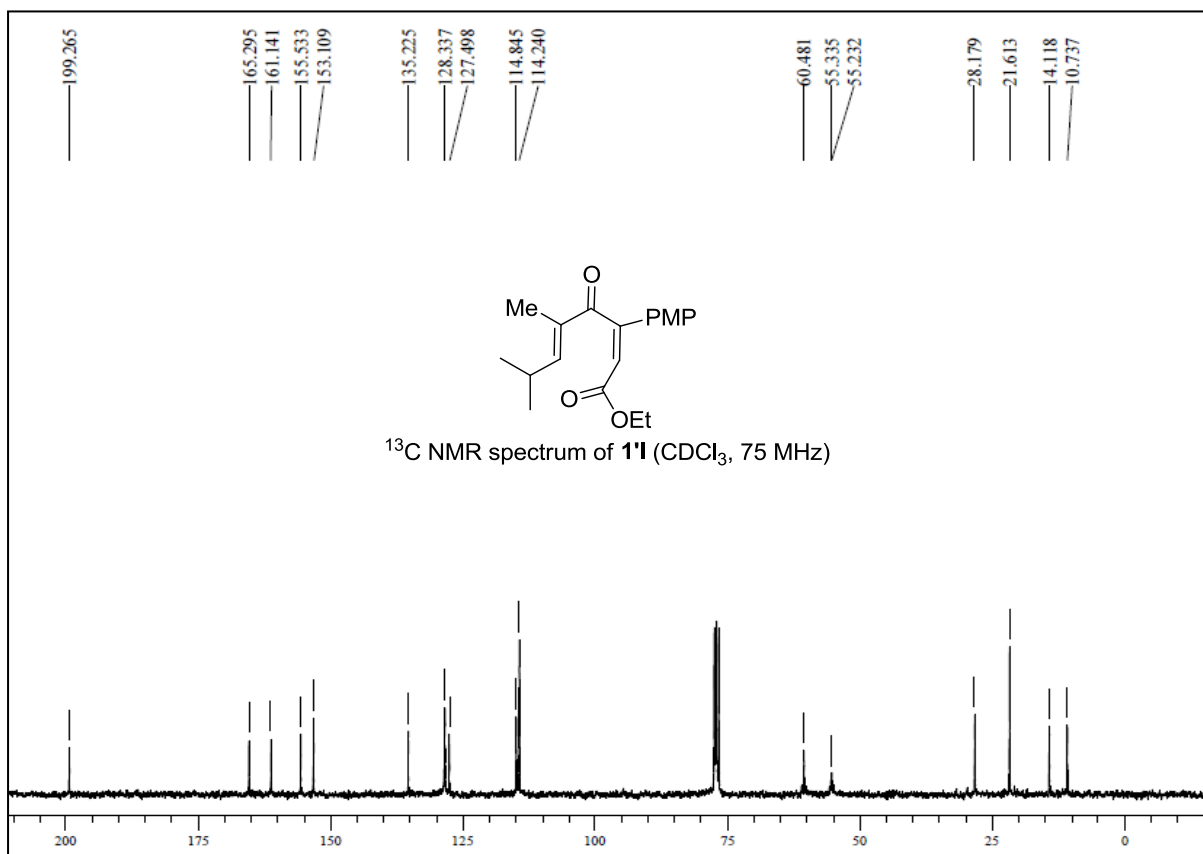
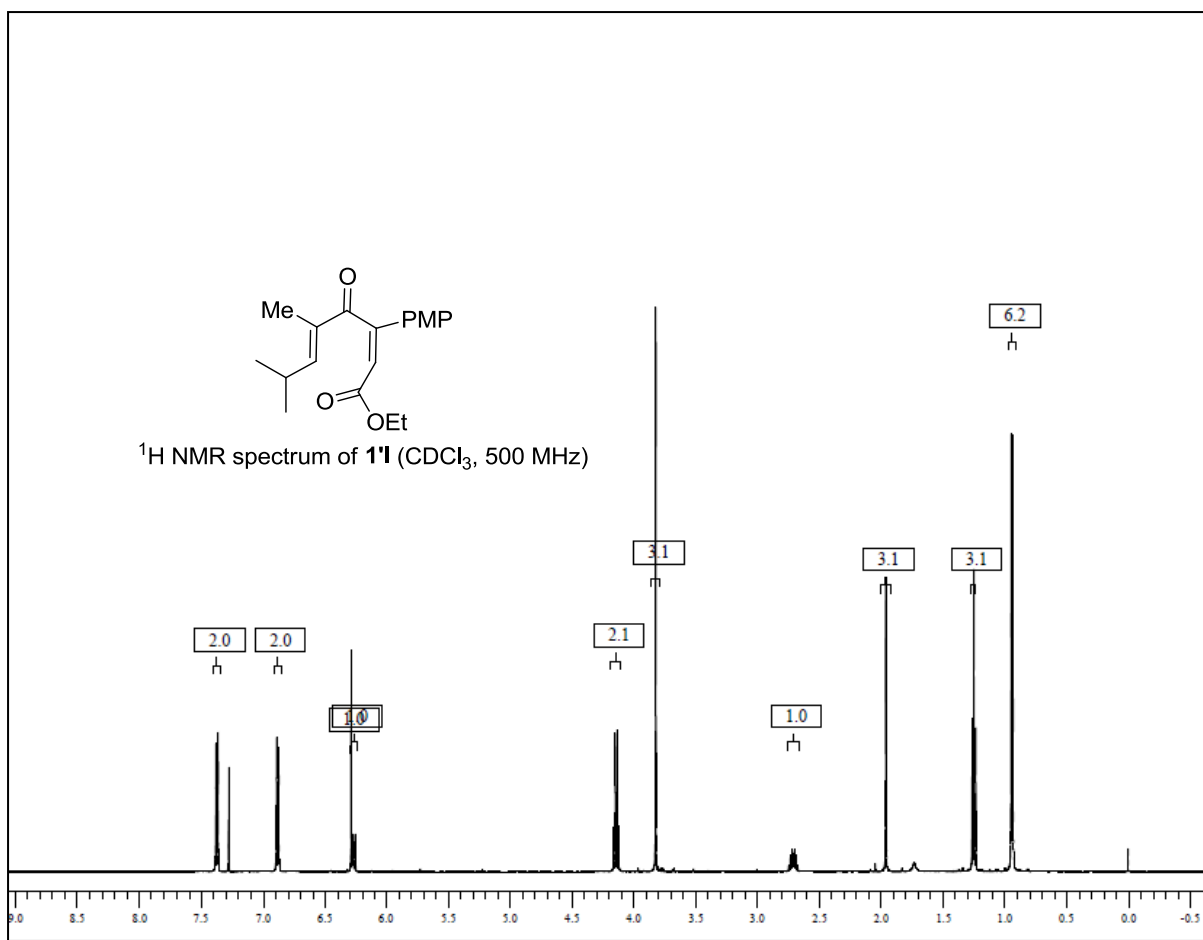
$^1\text{H}$  NMR spectrum of **1'k** ( $\text{CDCl}_3$ , 500 MHz)



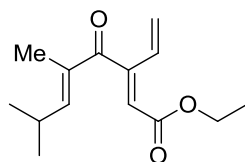
$^{13}\text{C}$  NMR spectrum of **1'k** ( $\text{CDCl}_3$ , 75 MHz)



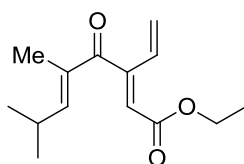
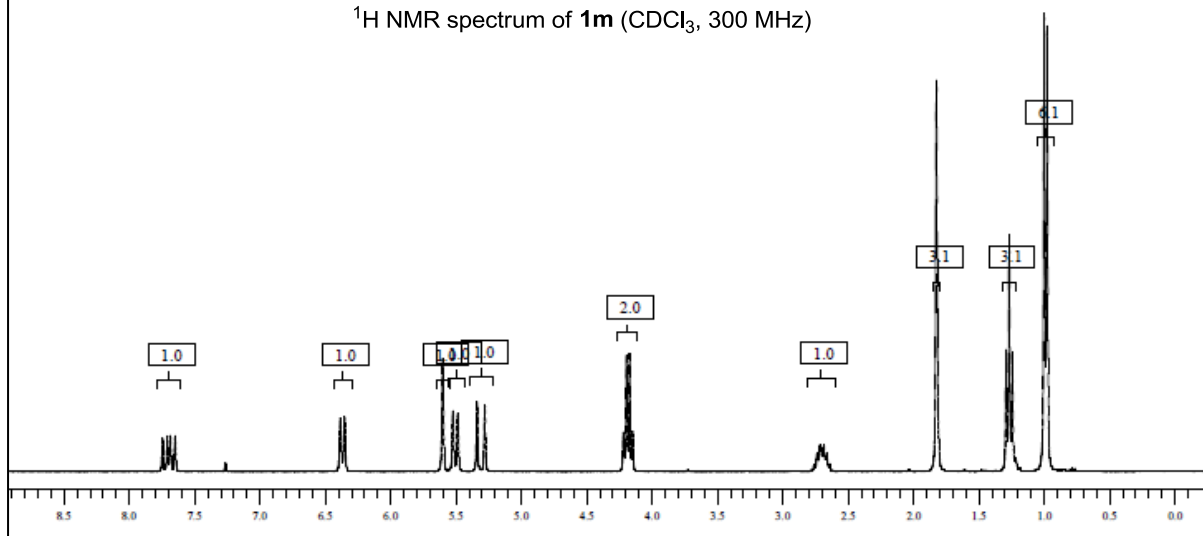




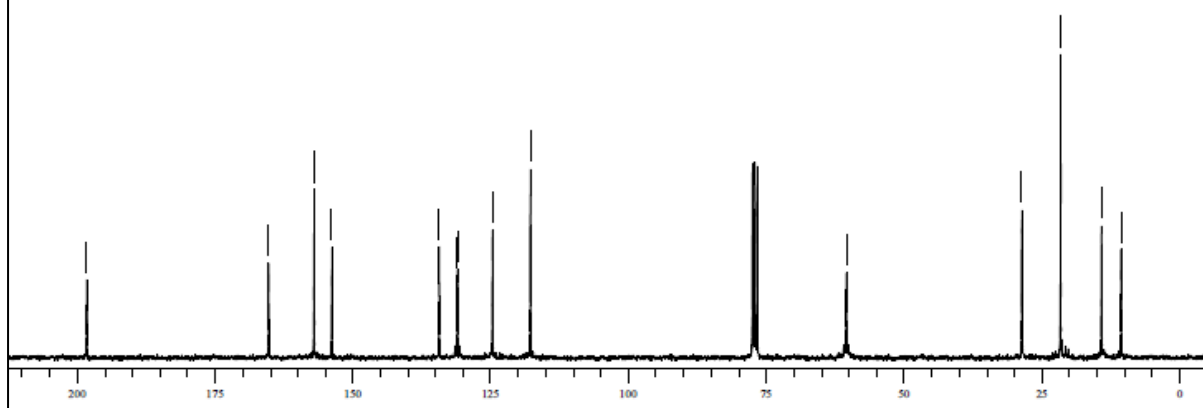


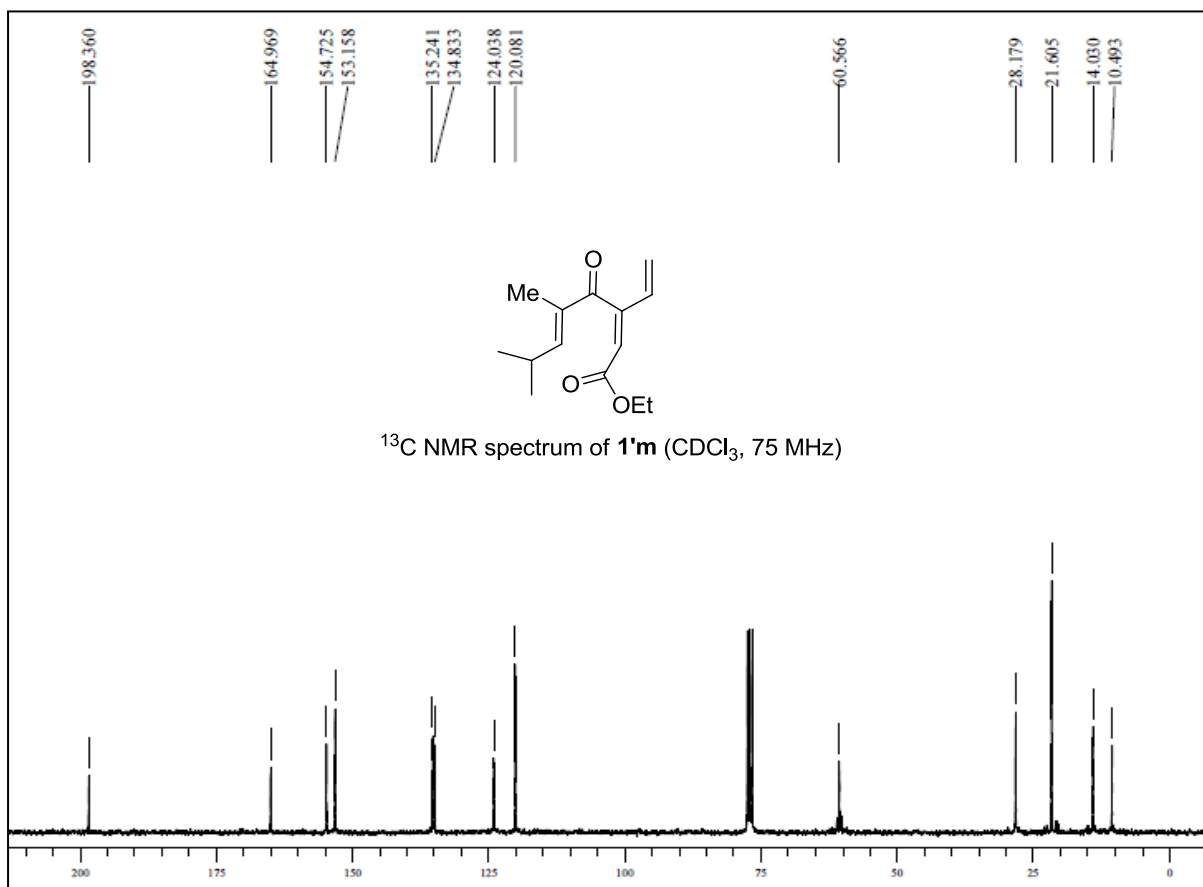
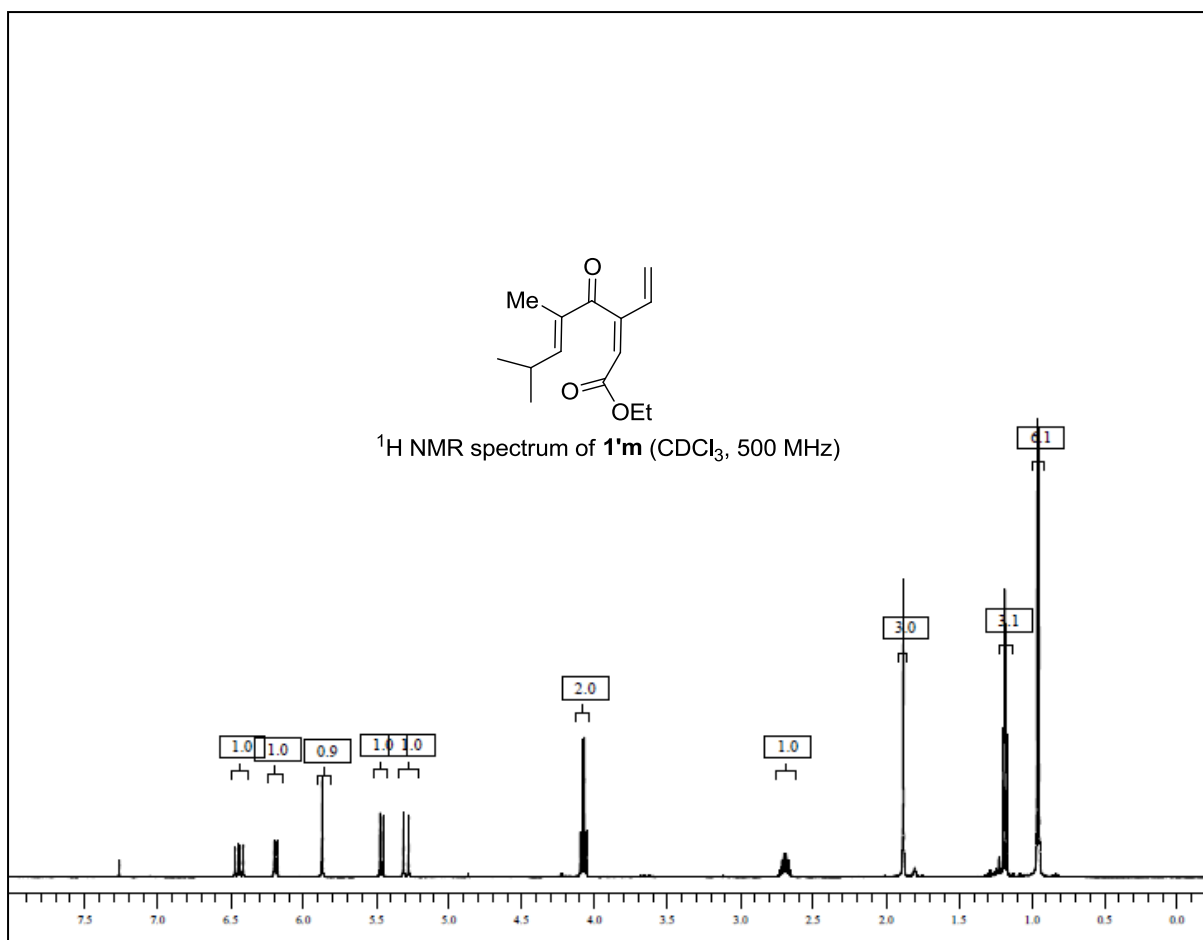


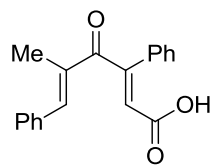
$^1\text{H}$  NMR spectrum of **1m** ( $\text{CDCl}_3$ , 300 MHz)



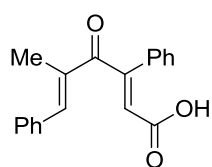
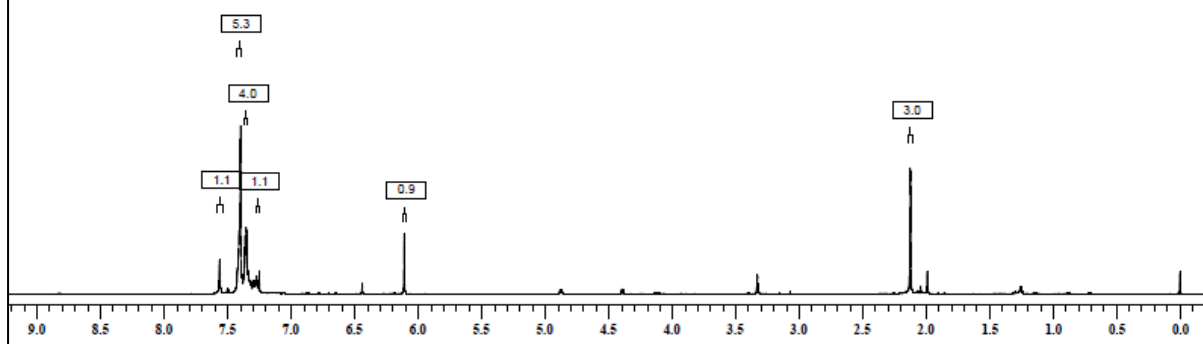
$^{13}\text{C}$  NMR spectrum of **1m** ( $\text{CDCl}_3$ , 75 MHz)



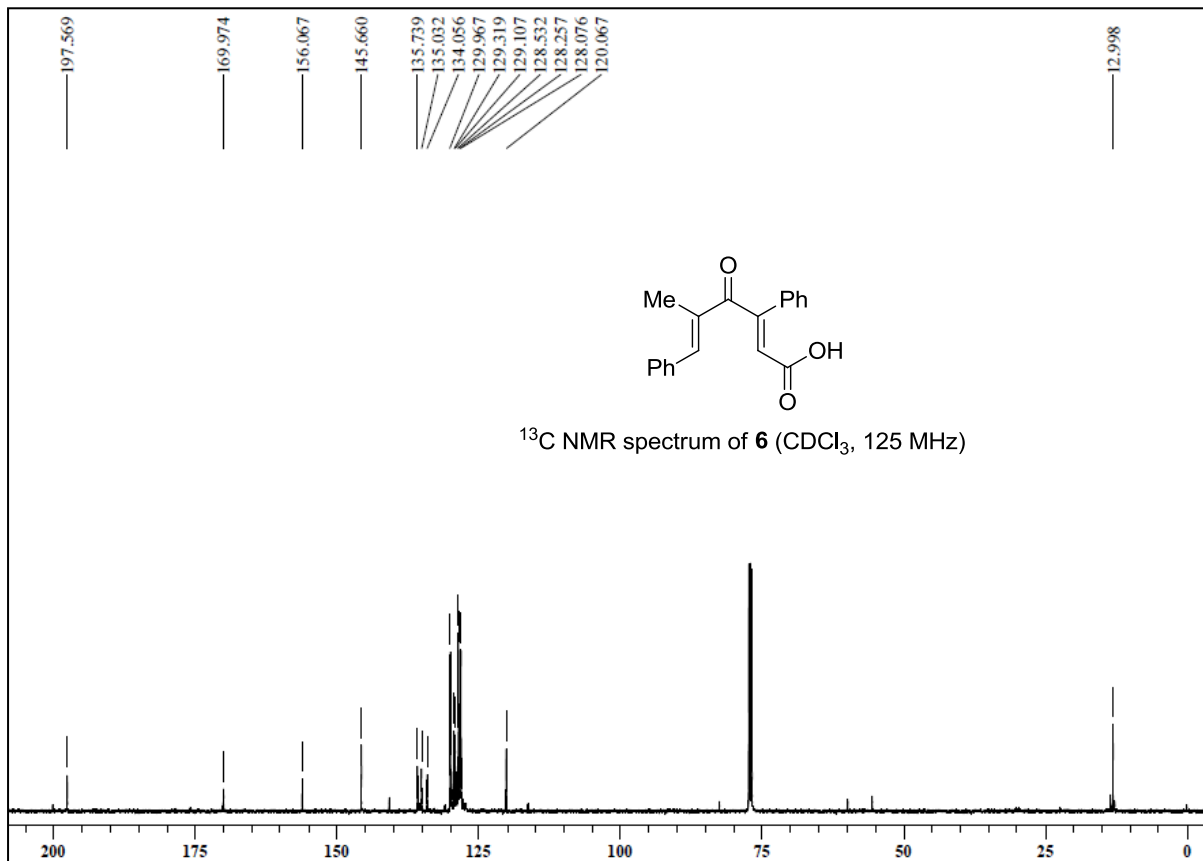


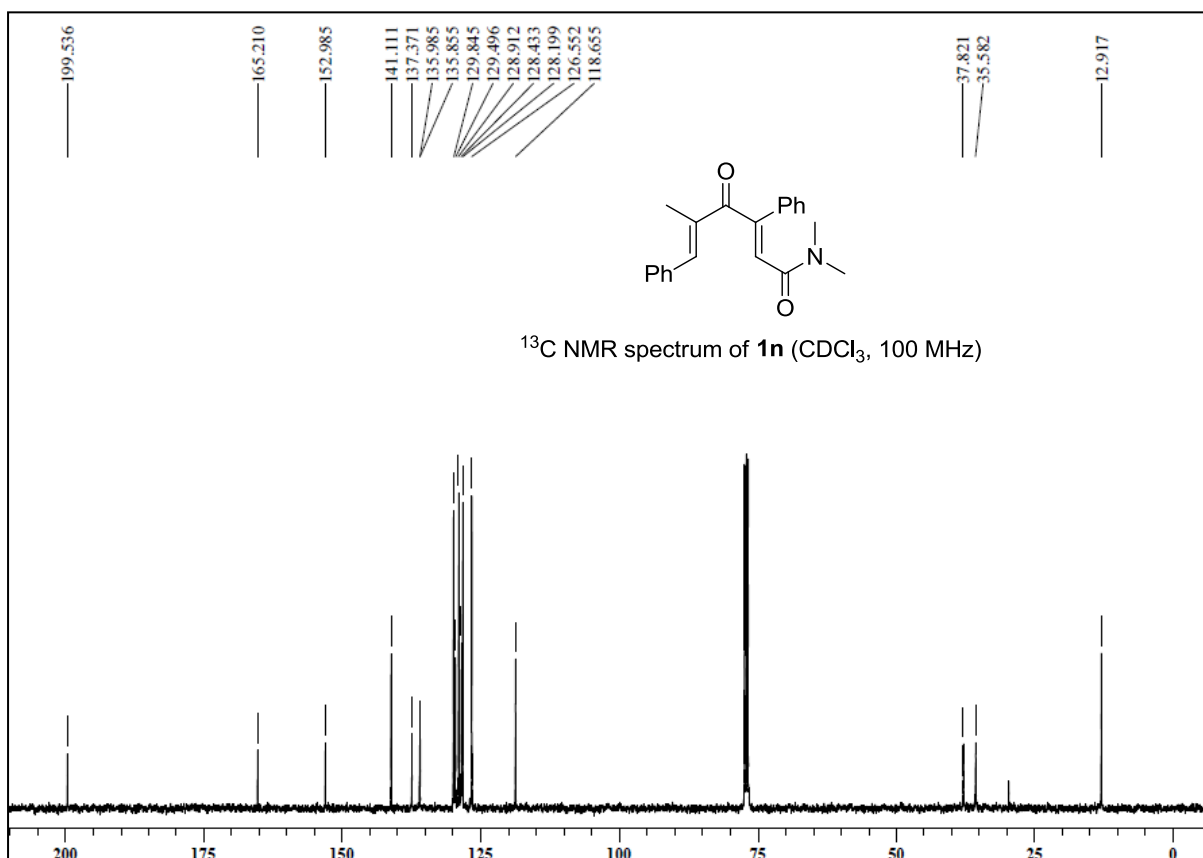
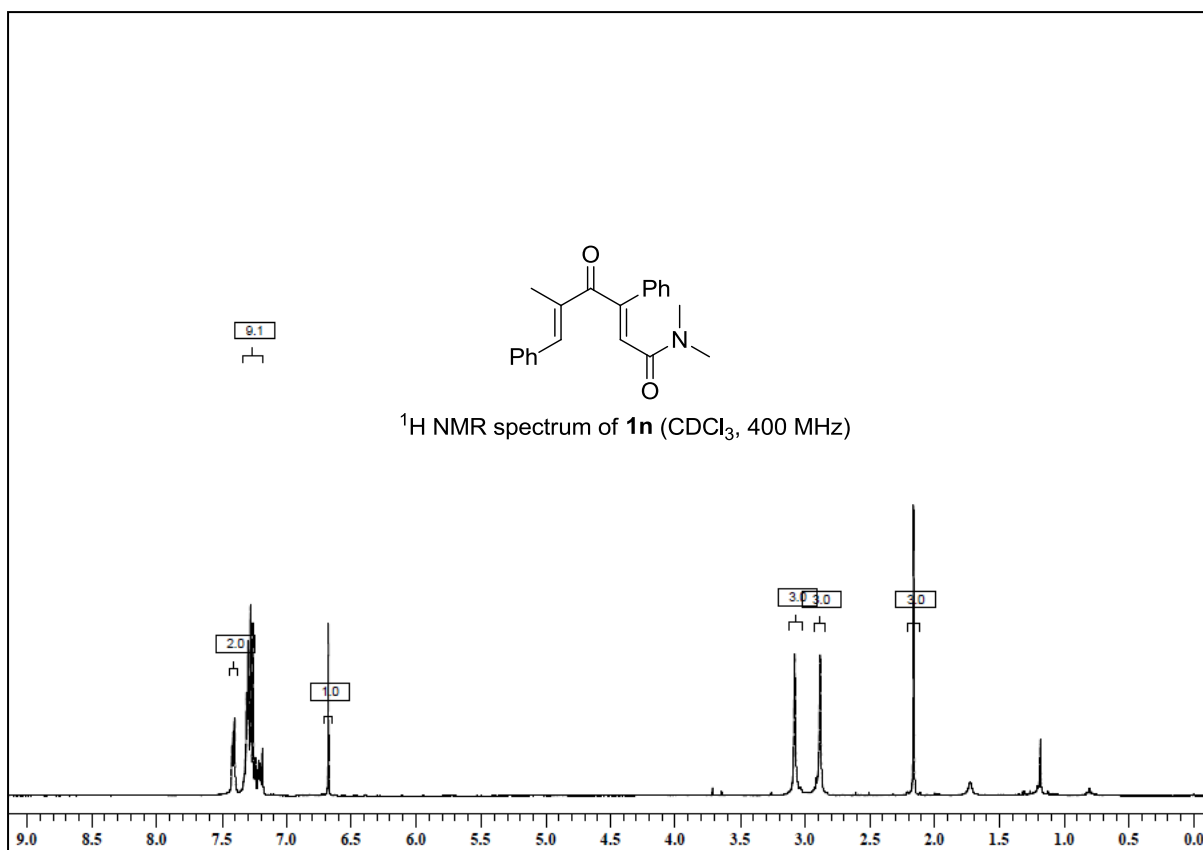


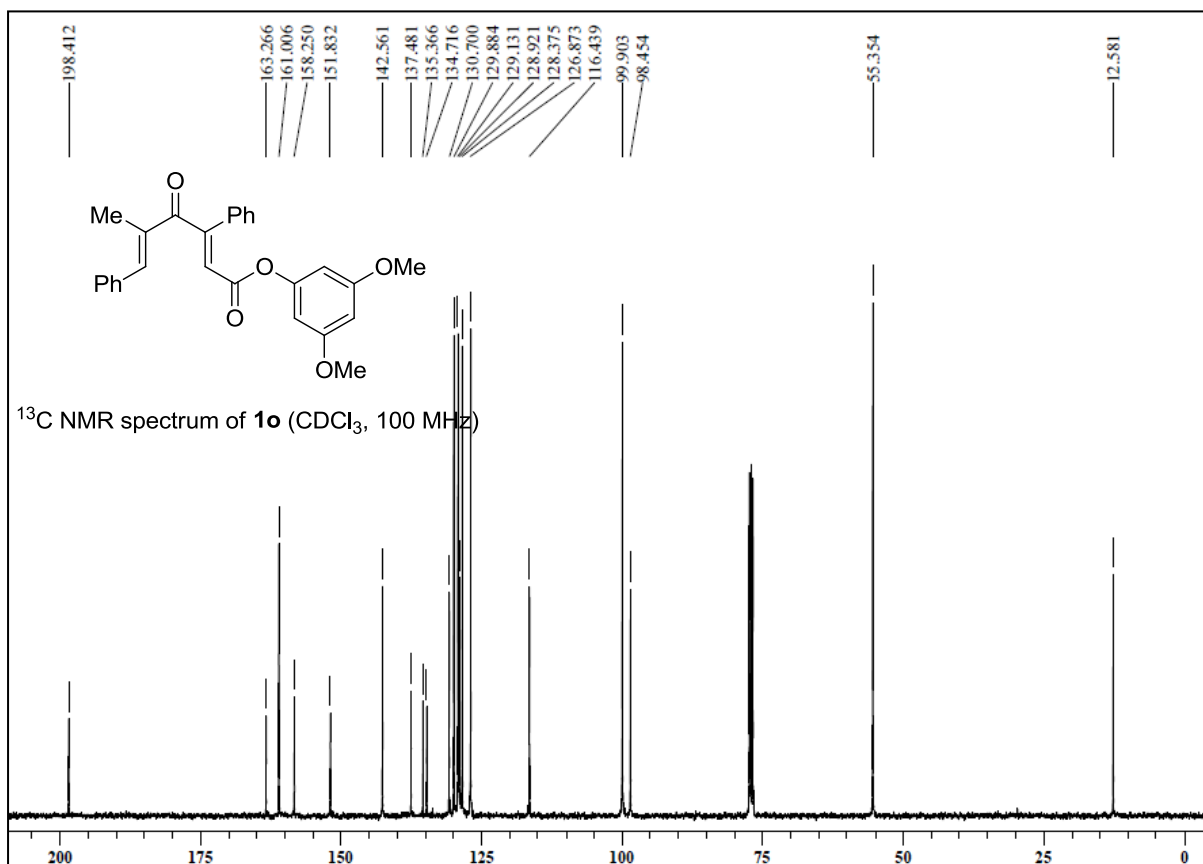
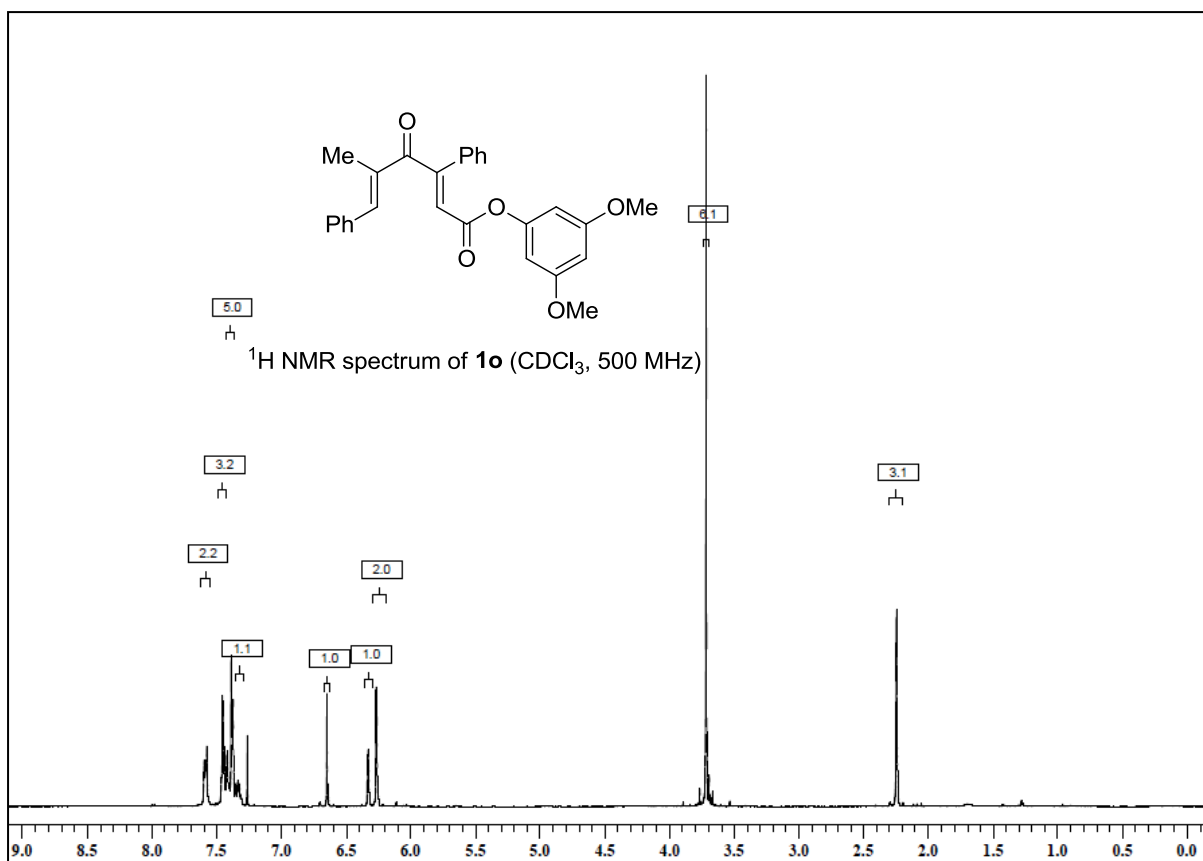
$^1\text{H}$  NMR spectrum of **6** ( $\text{CDCl}_3$ , 500 MHz)

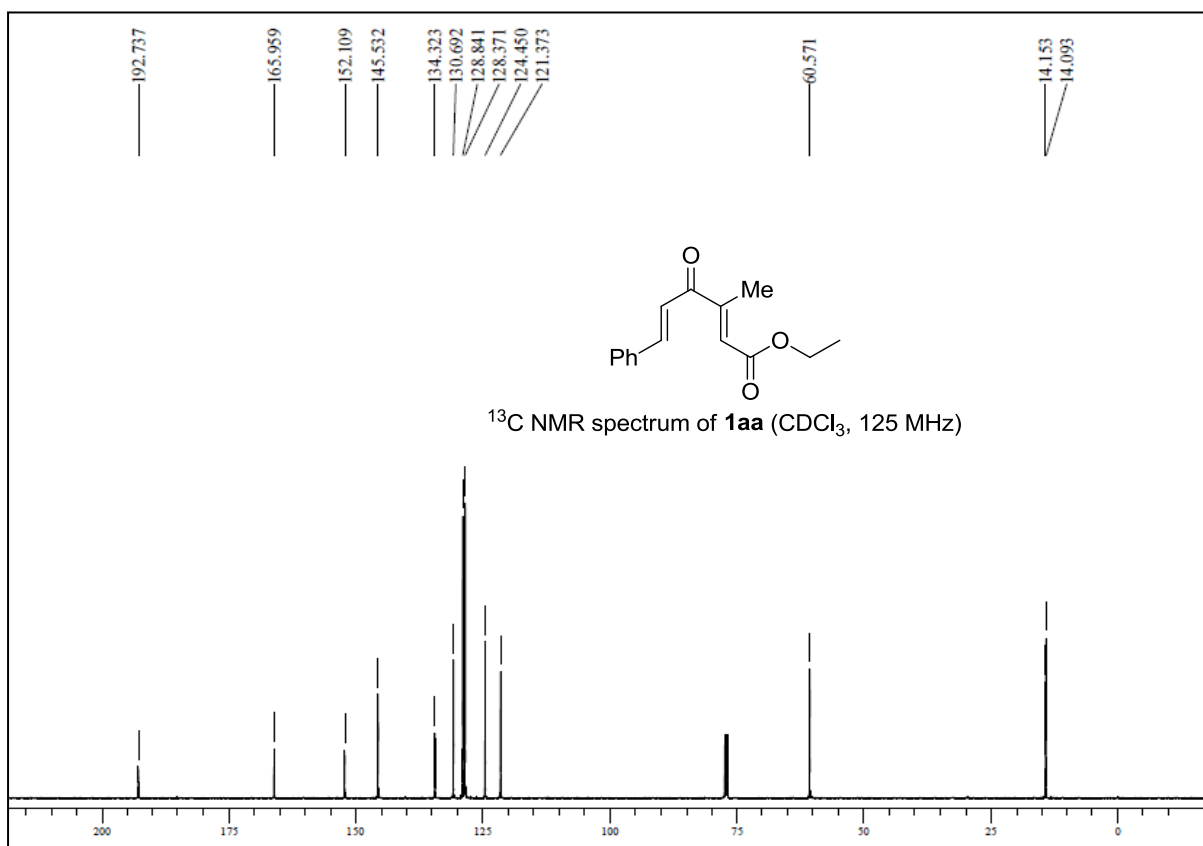
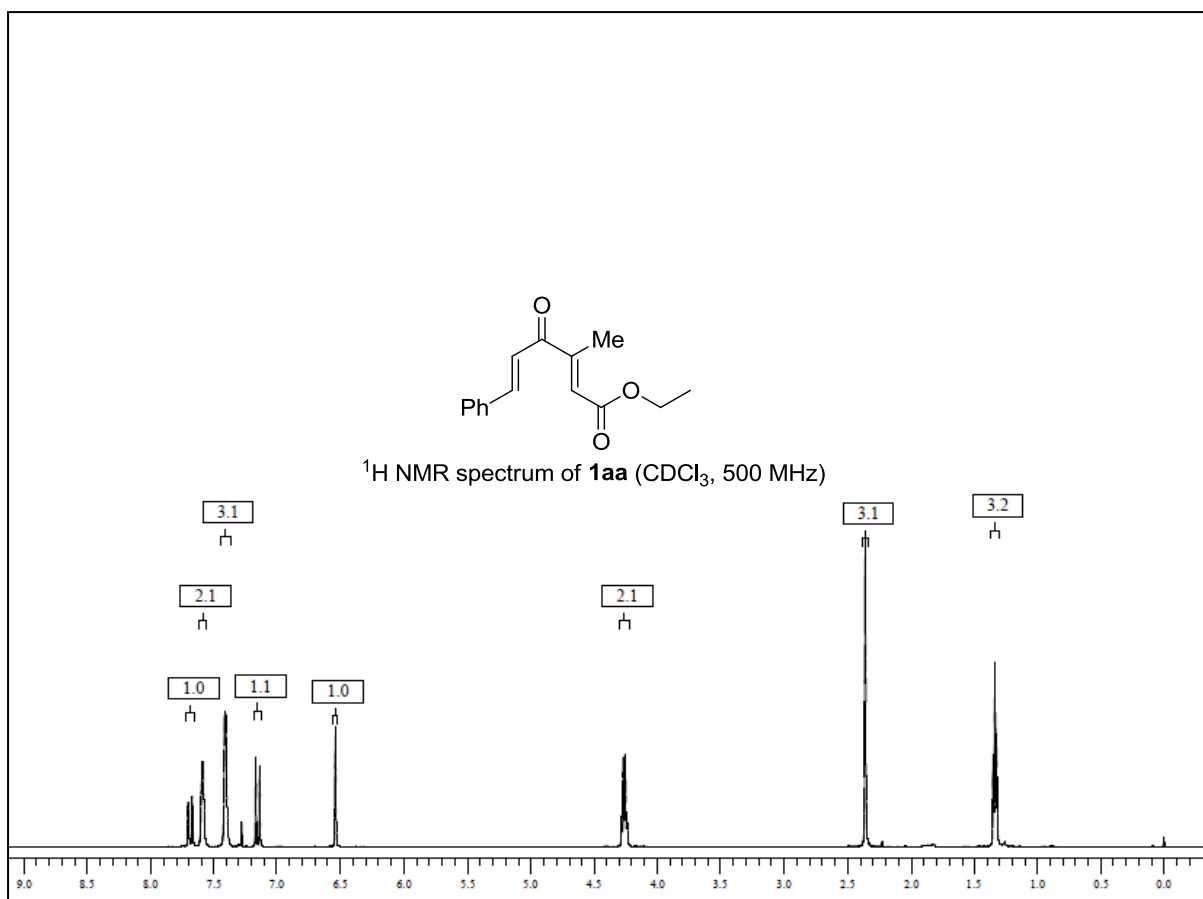


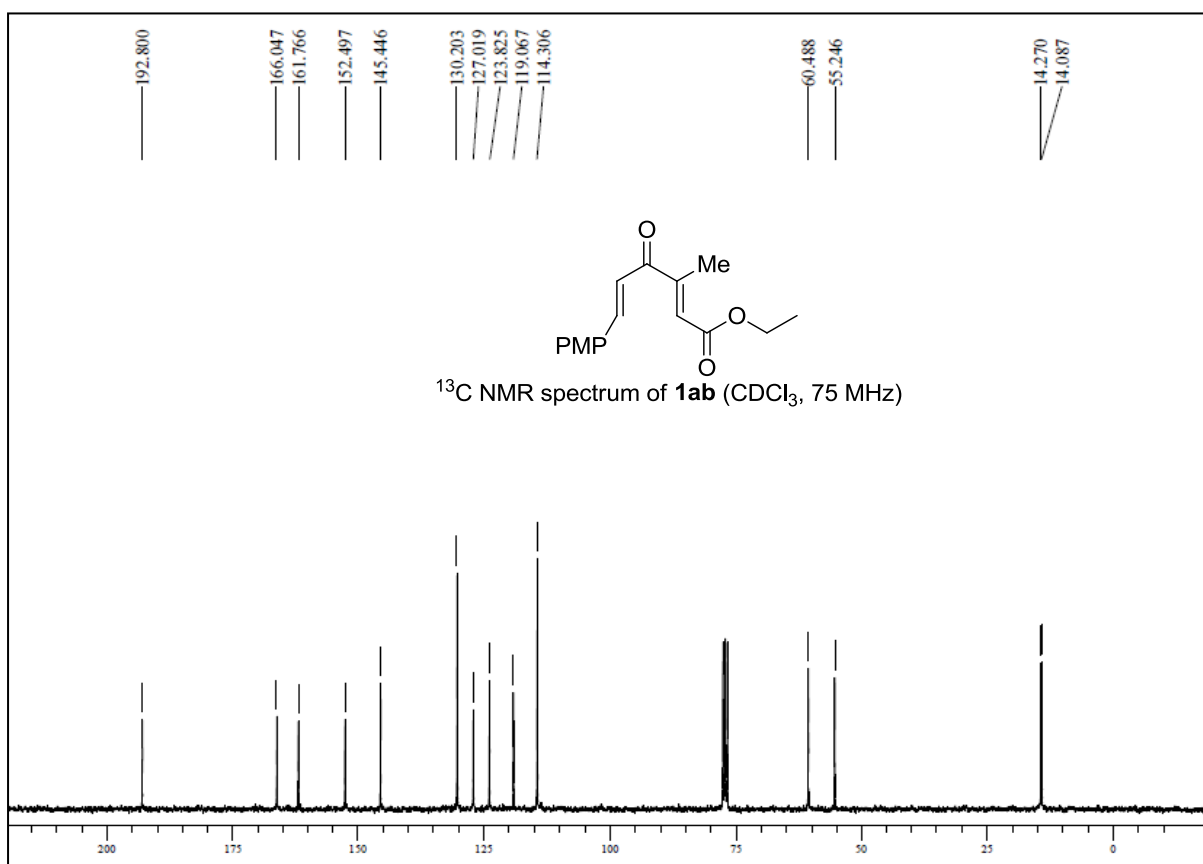
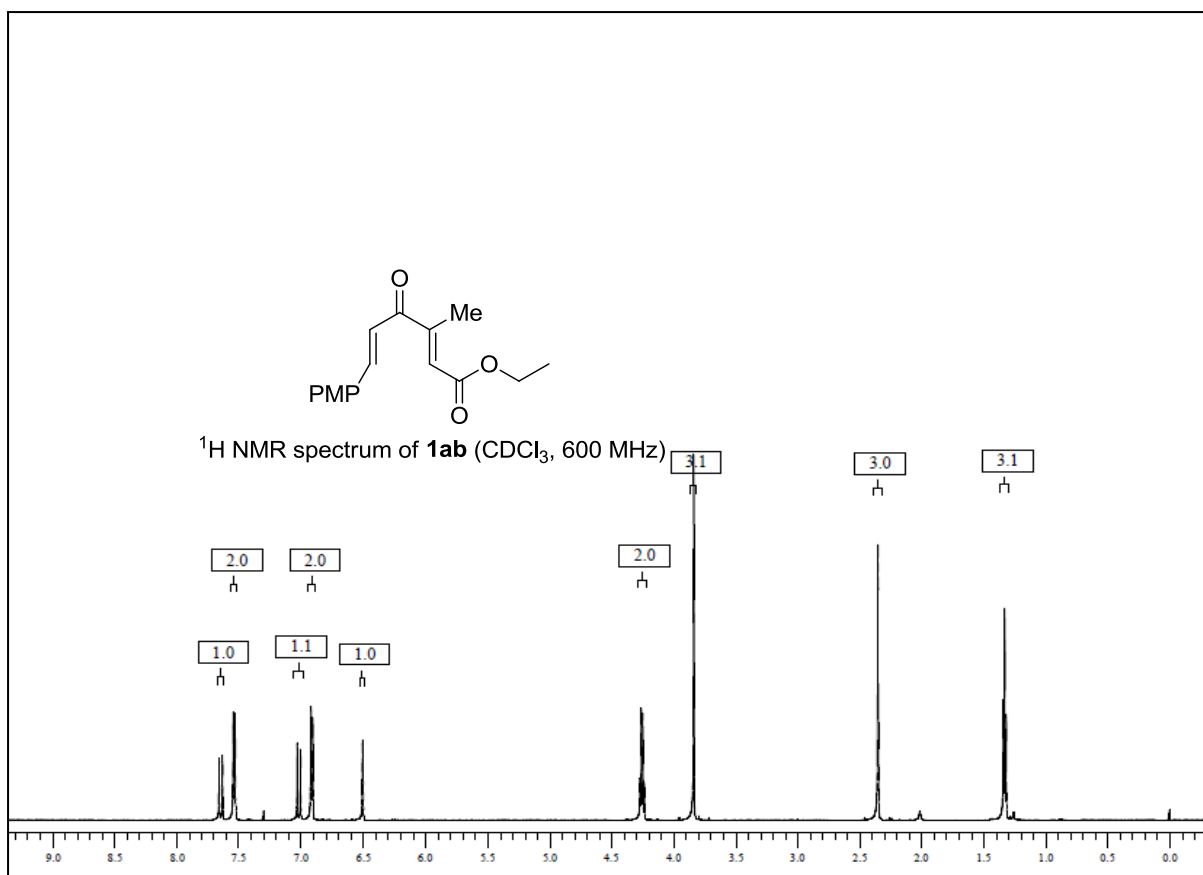
$^{13}\text{C}$  NMR spectrum of **6** ( $\text{CDCl}_3$ , 125 MHz)

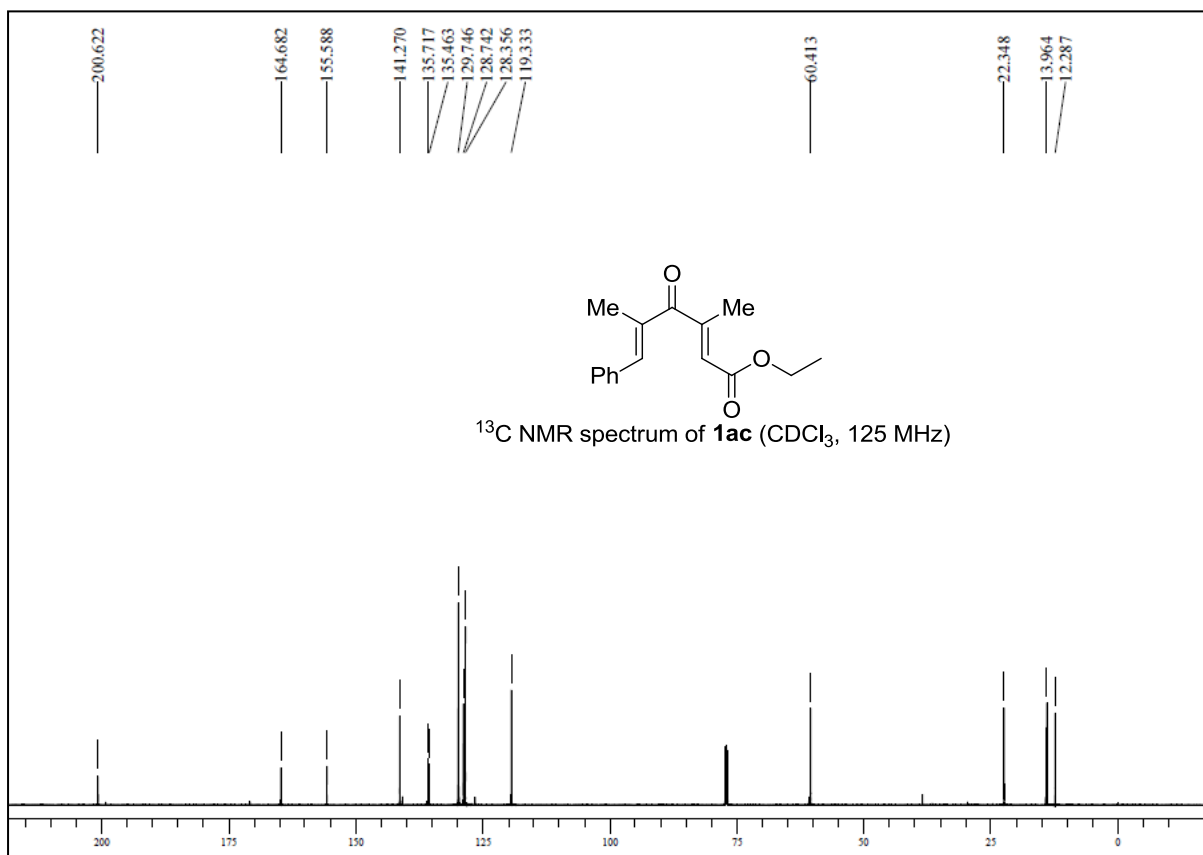
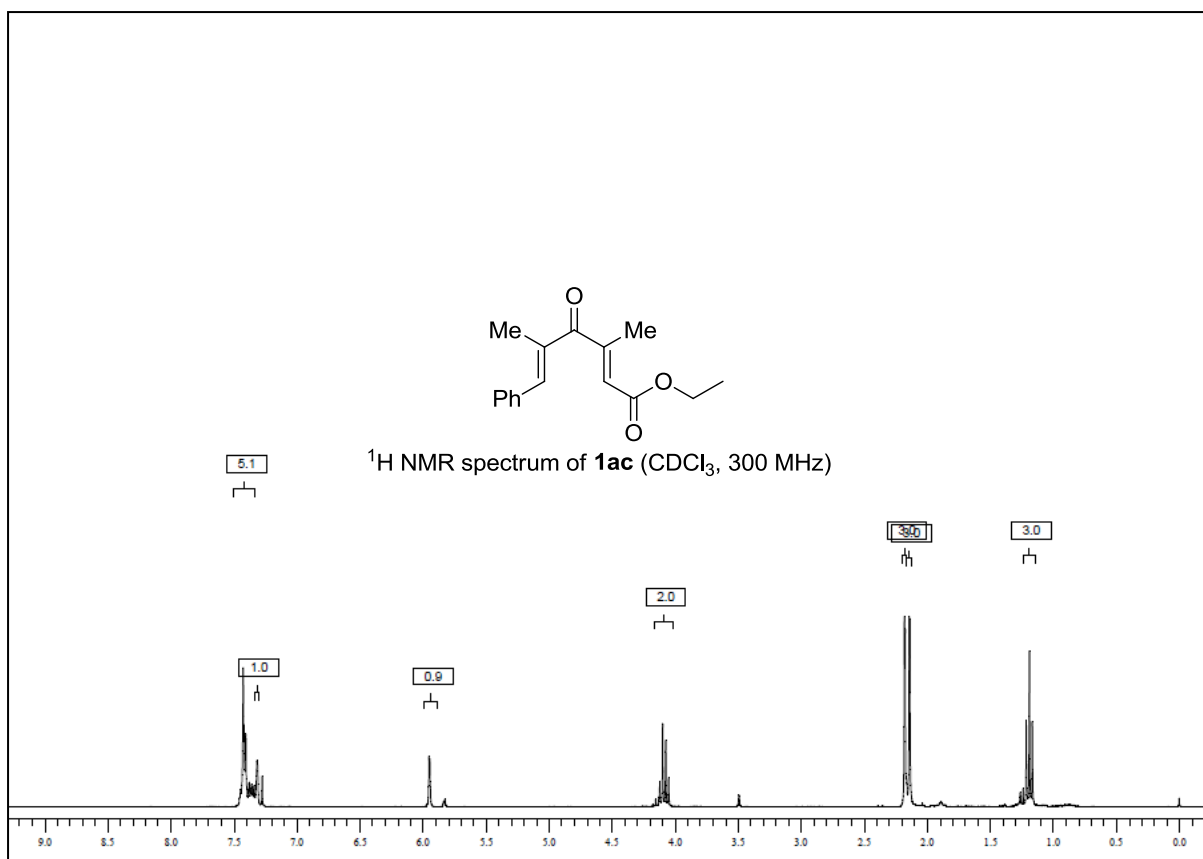




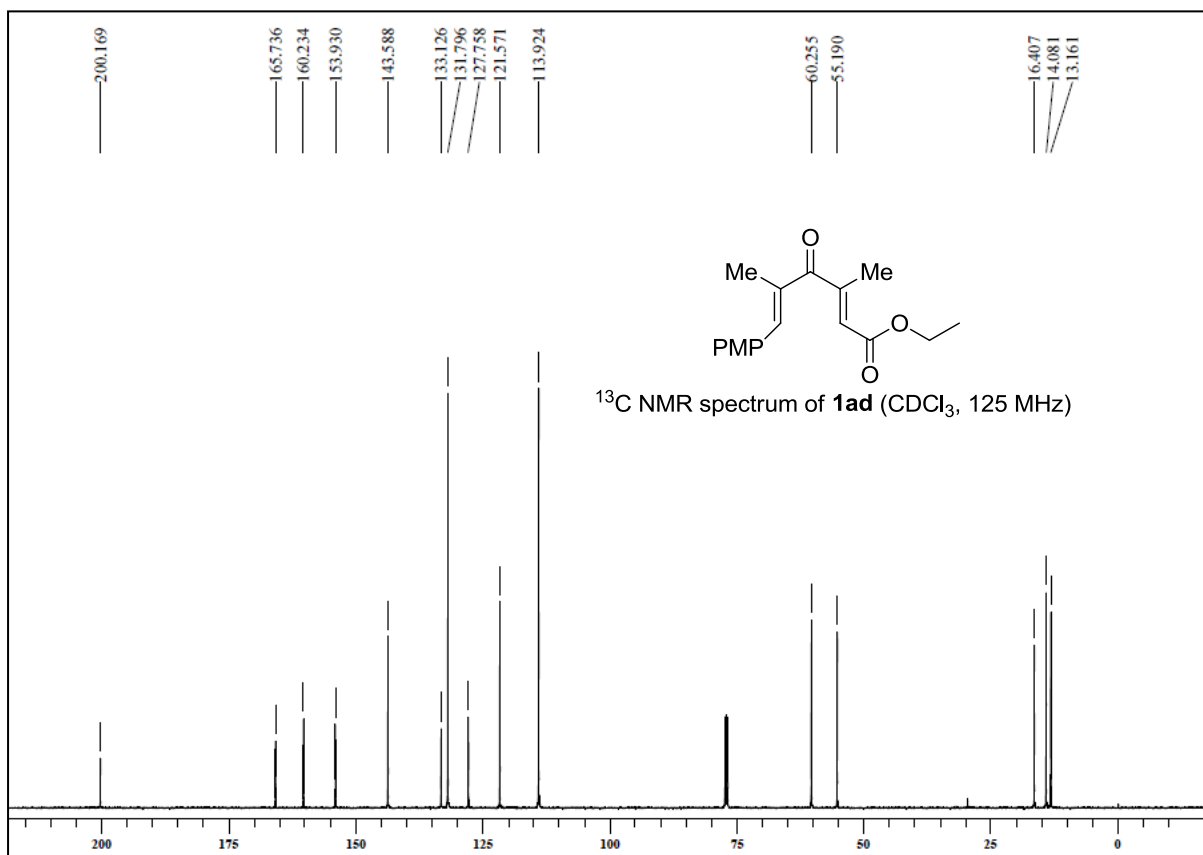
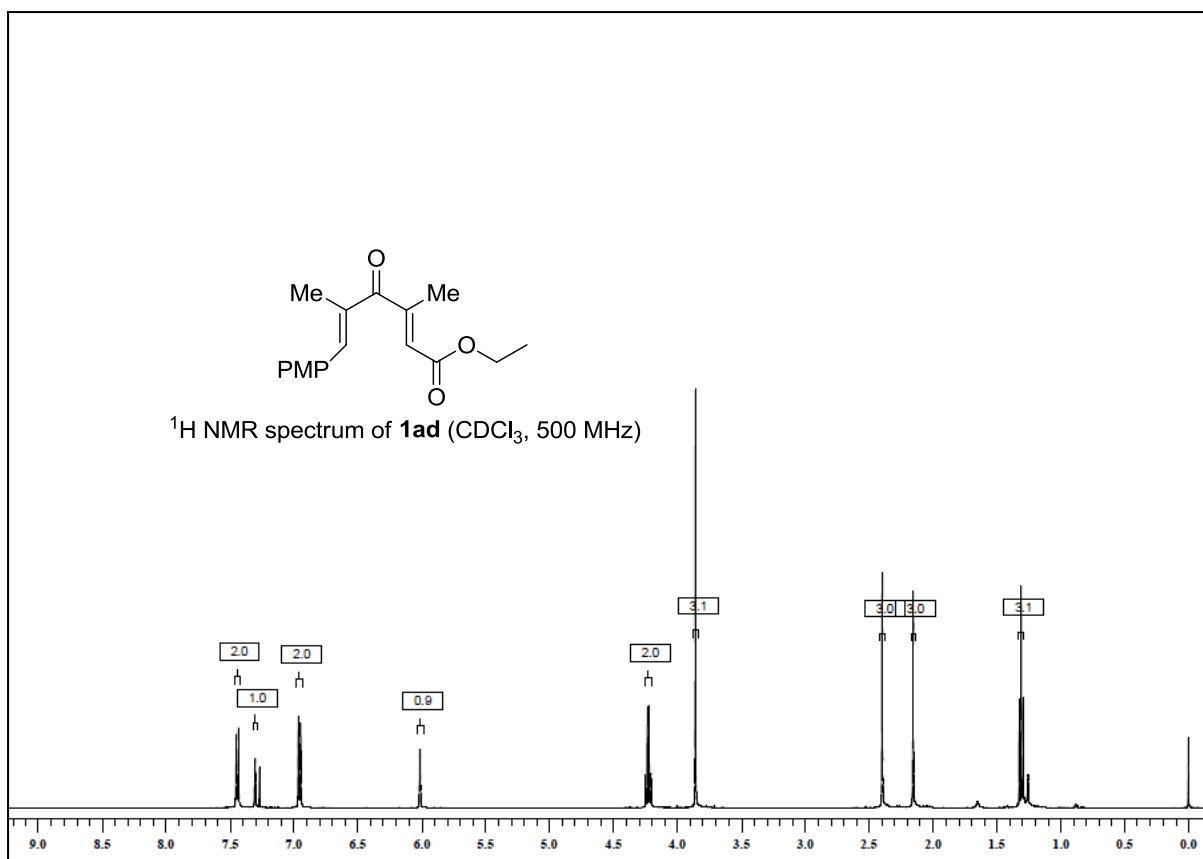


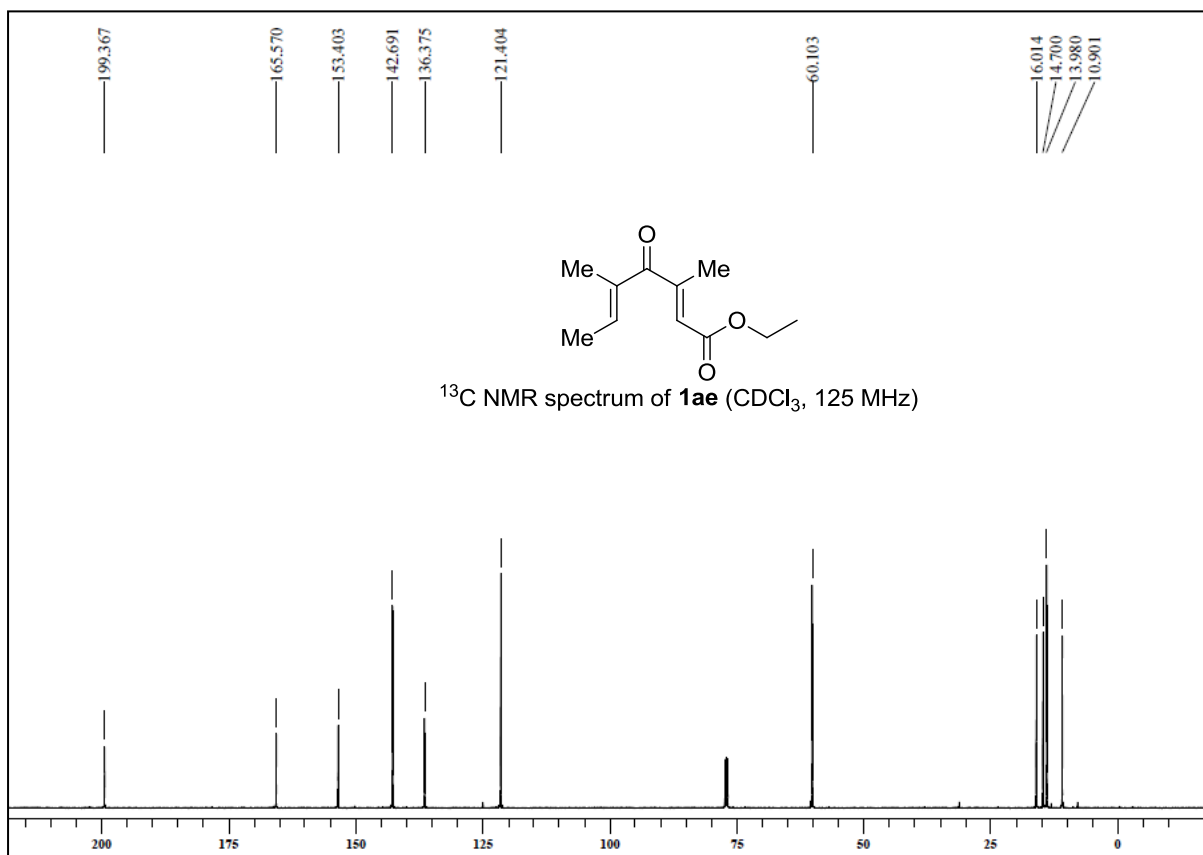
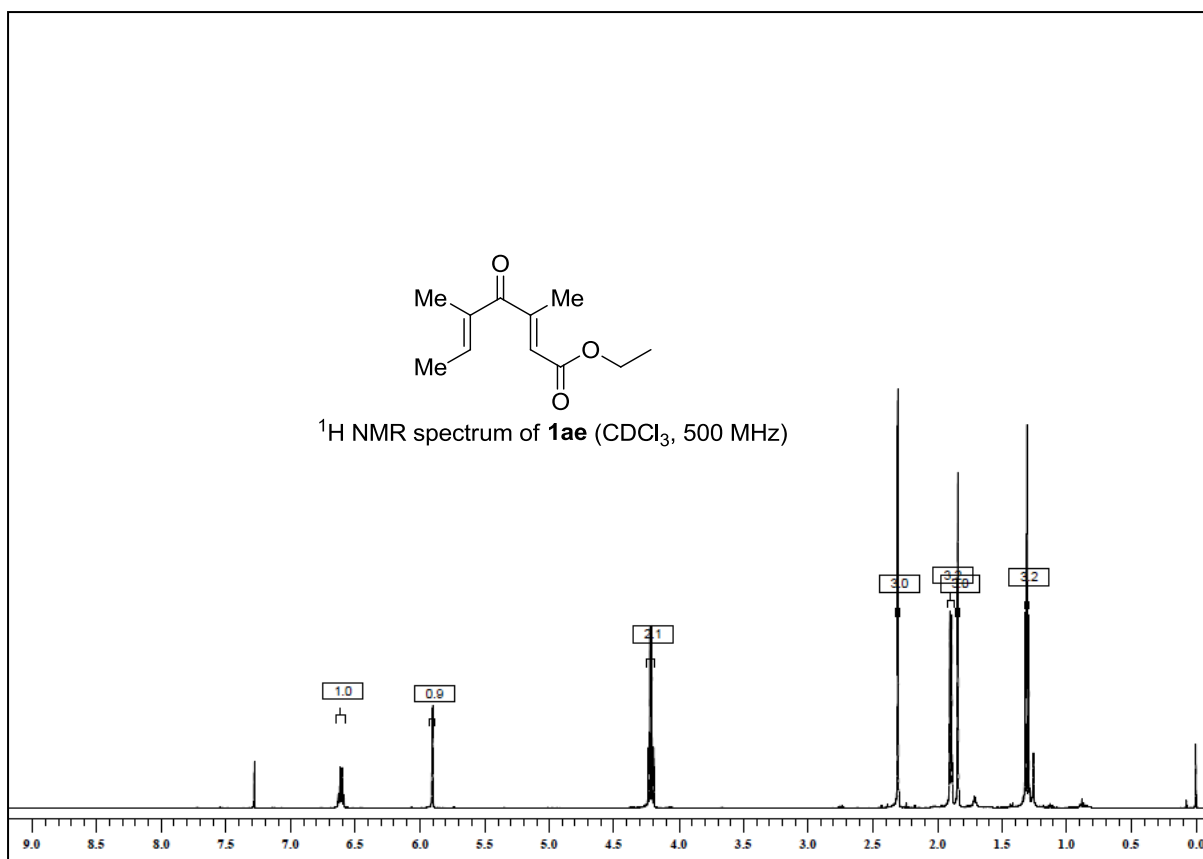


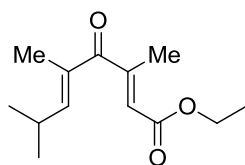




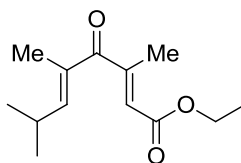
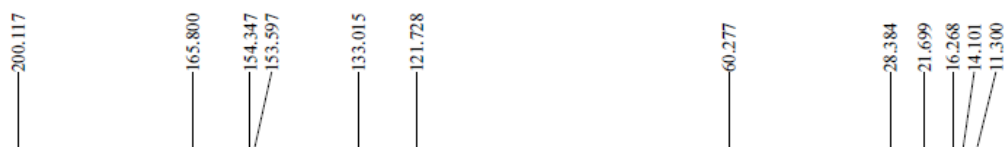
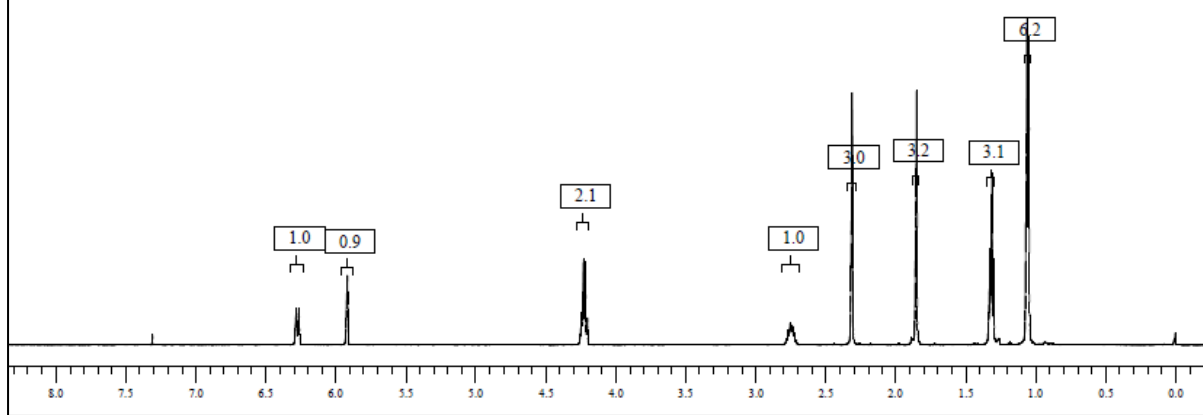




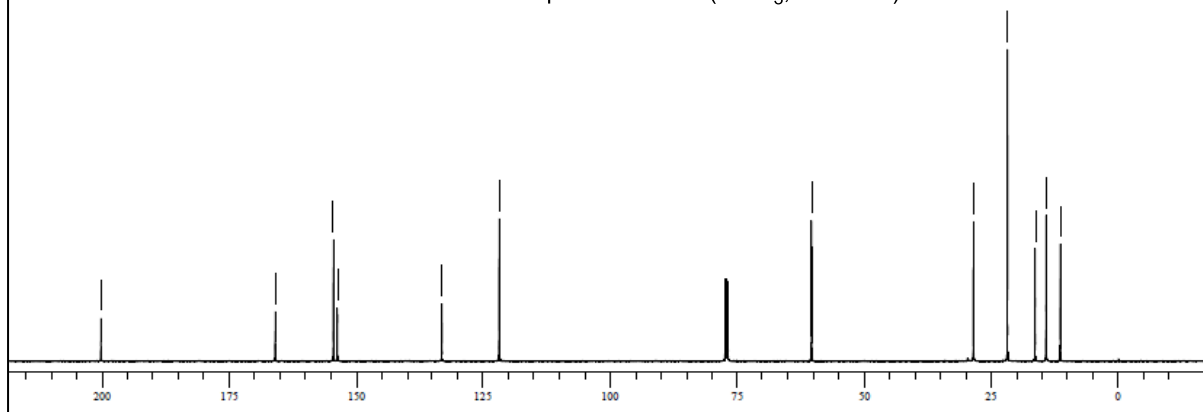


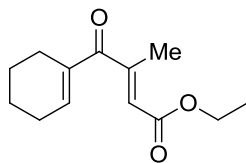


$^1\text{H}$  NMR spectrum of **1af** ( $\text{CDCl}_3$ , 500 MHz)

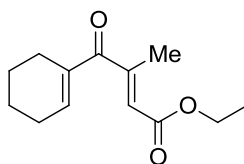
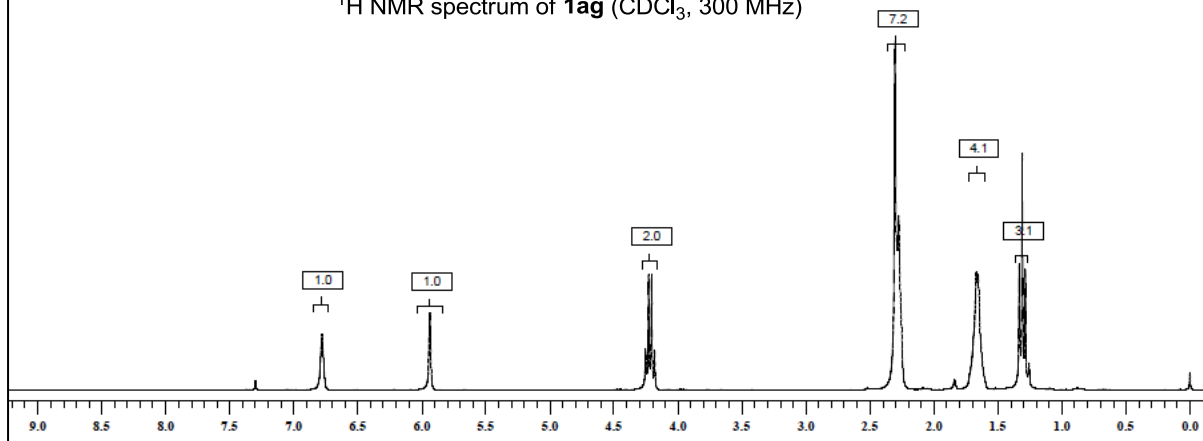


$^{13}\text{C}$  NMR spectrum of **1af** ( $\text{CDCl}_3$ , 125 MHz)

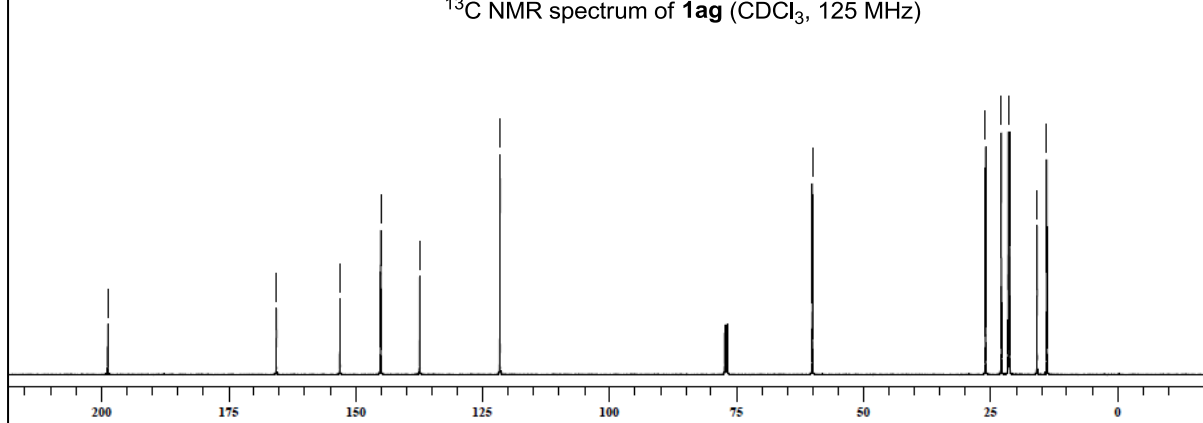


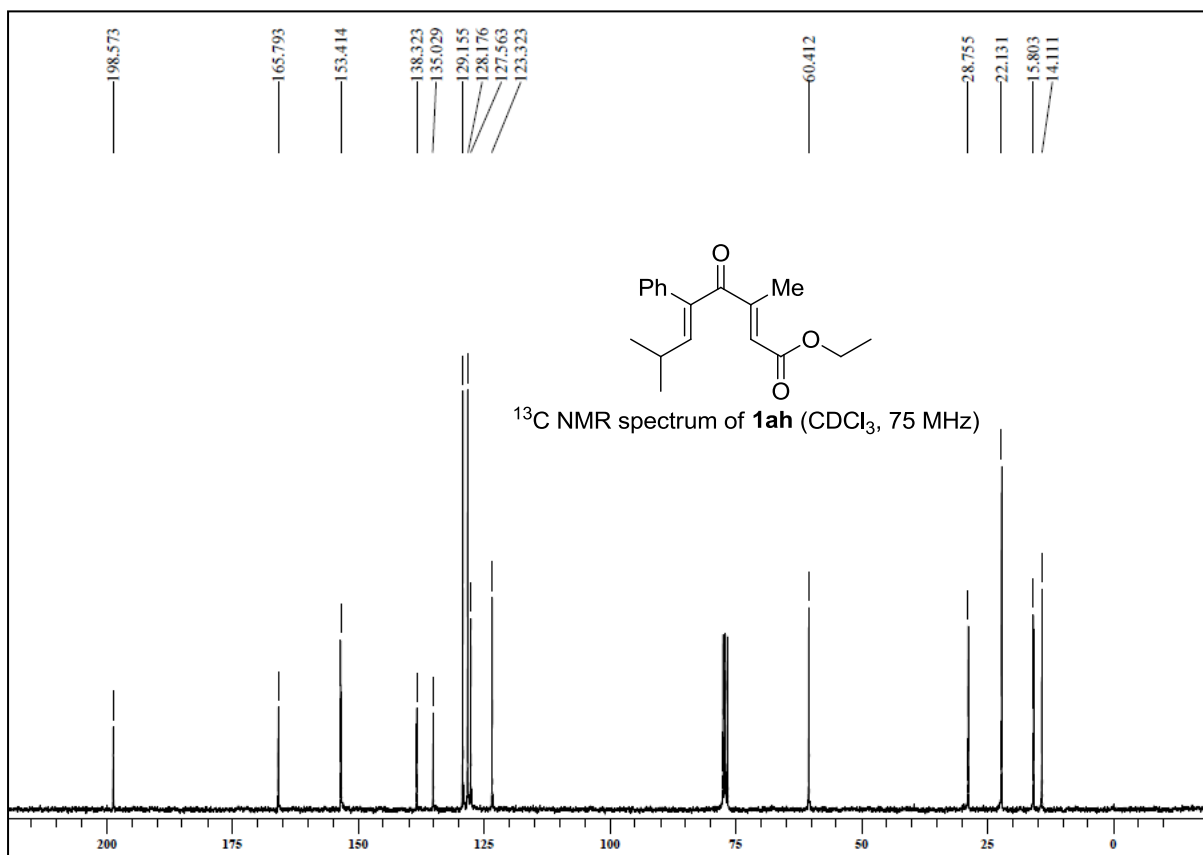
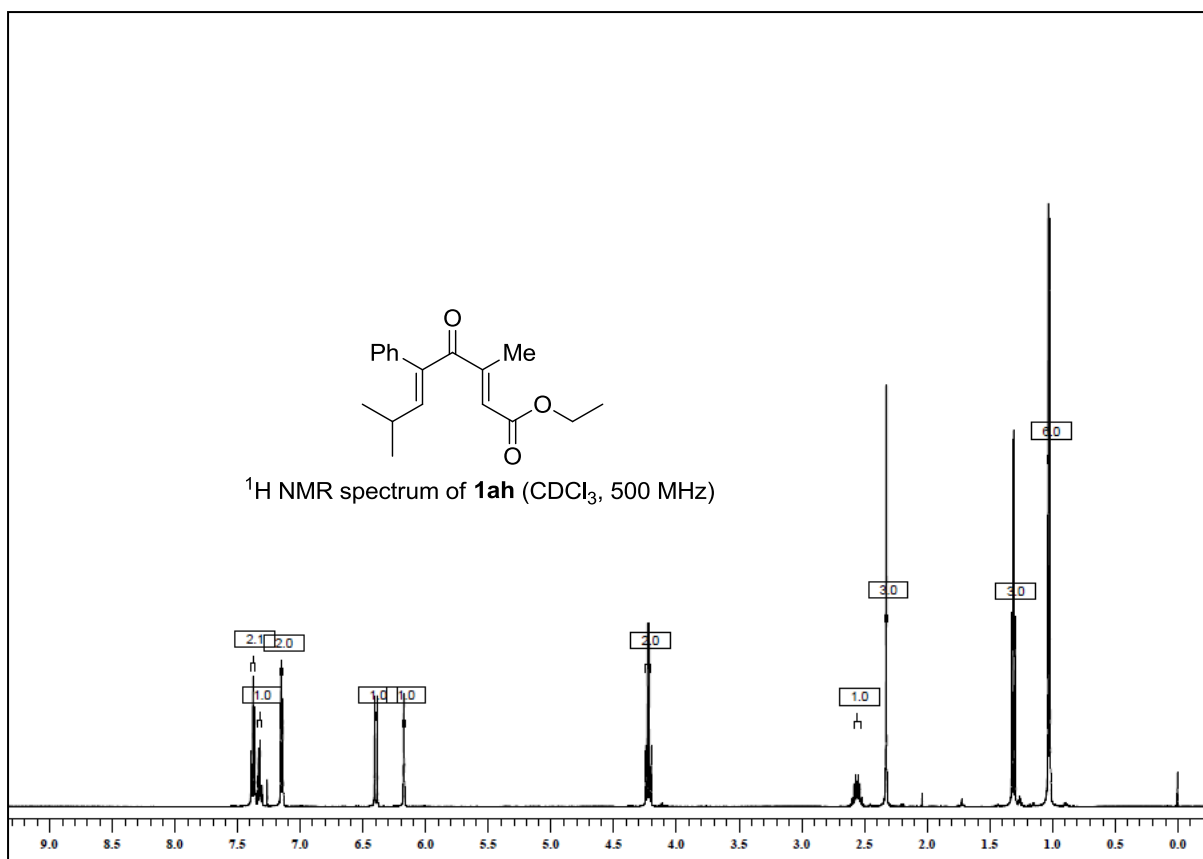


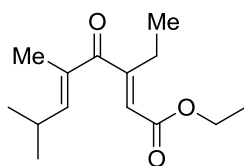
$^1\text{H}$  NMR spectrum of **1ag** ( $\text{CDCl}_3$ , 300 MHz)



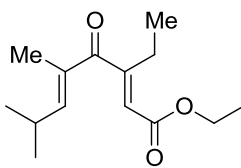
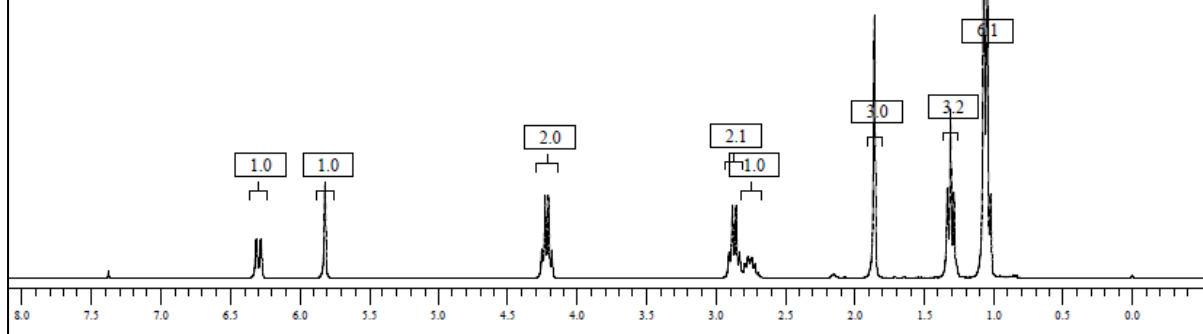
$^{13}\text{C}$  NMR spectrum of **1ag** ( $\text{CDCl}_3$ , 125 MHz)



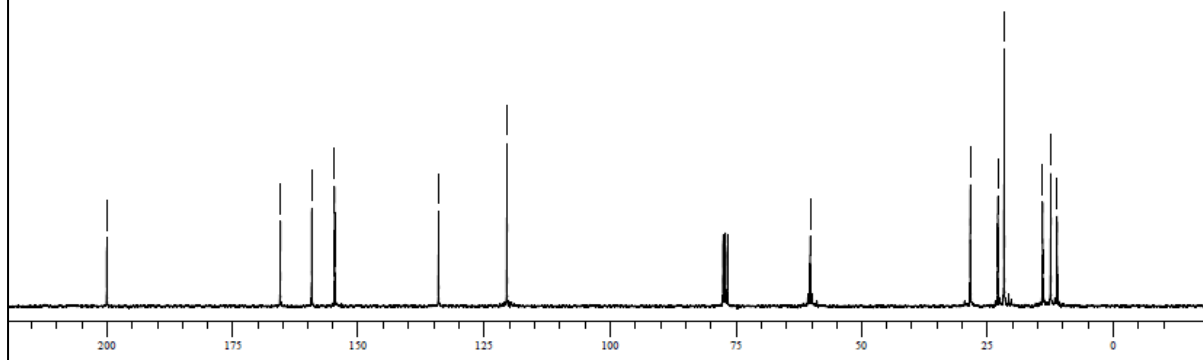


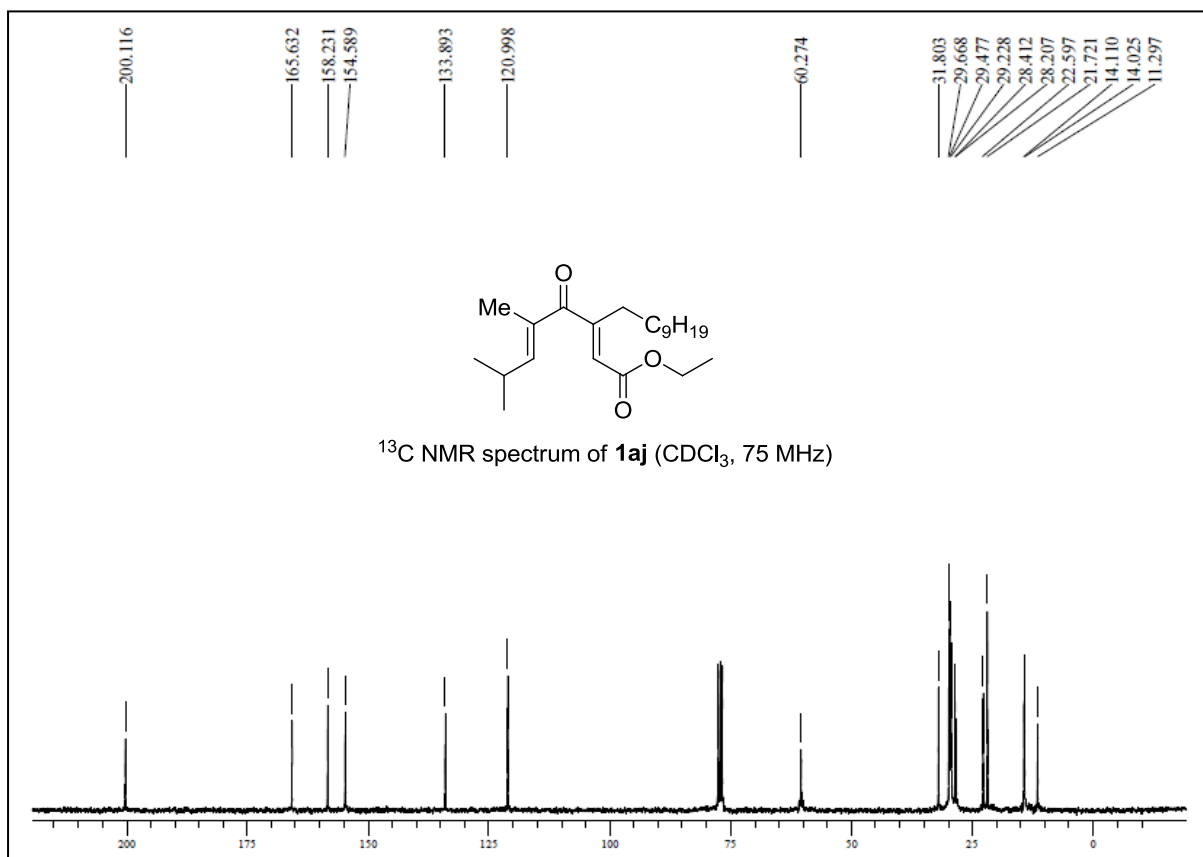
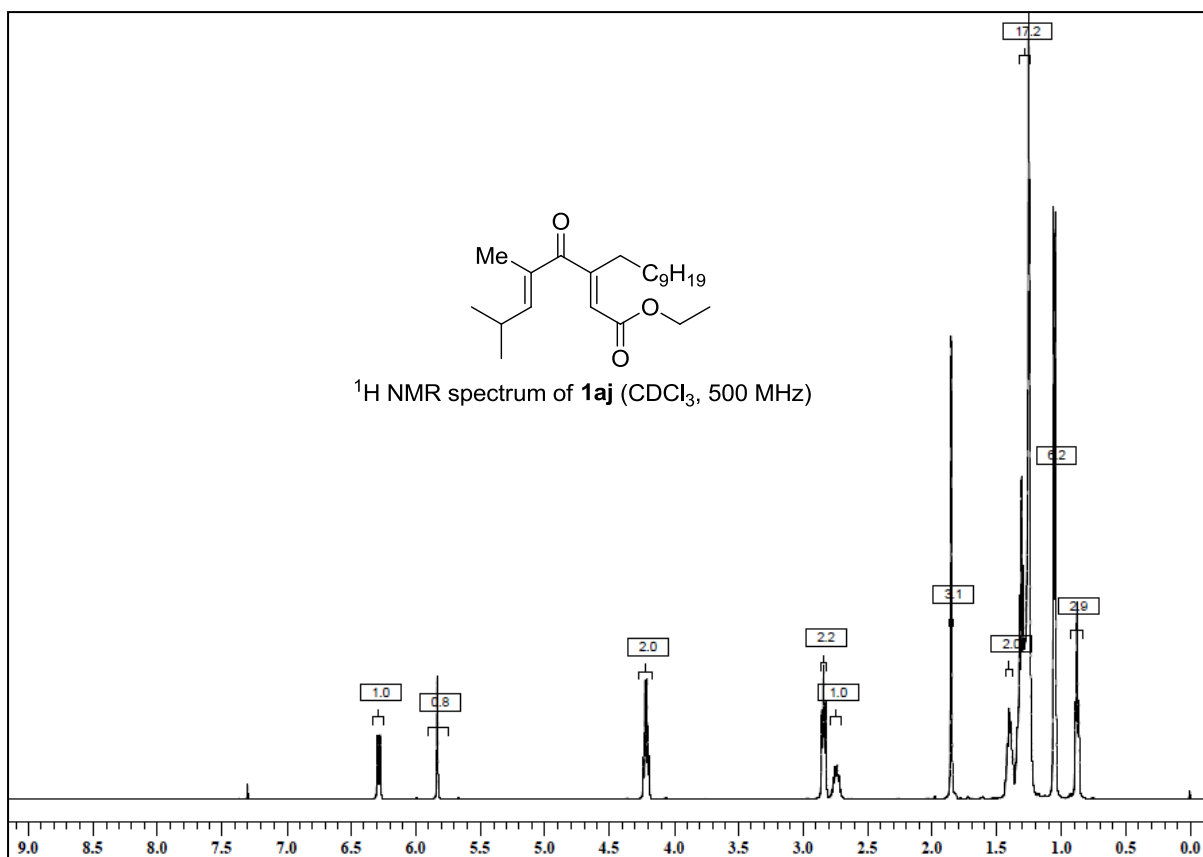


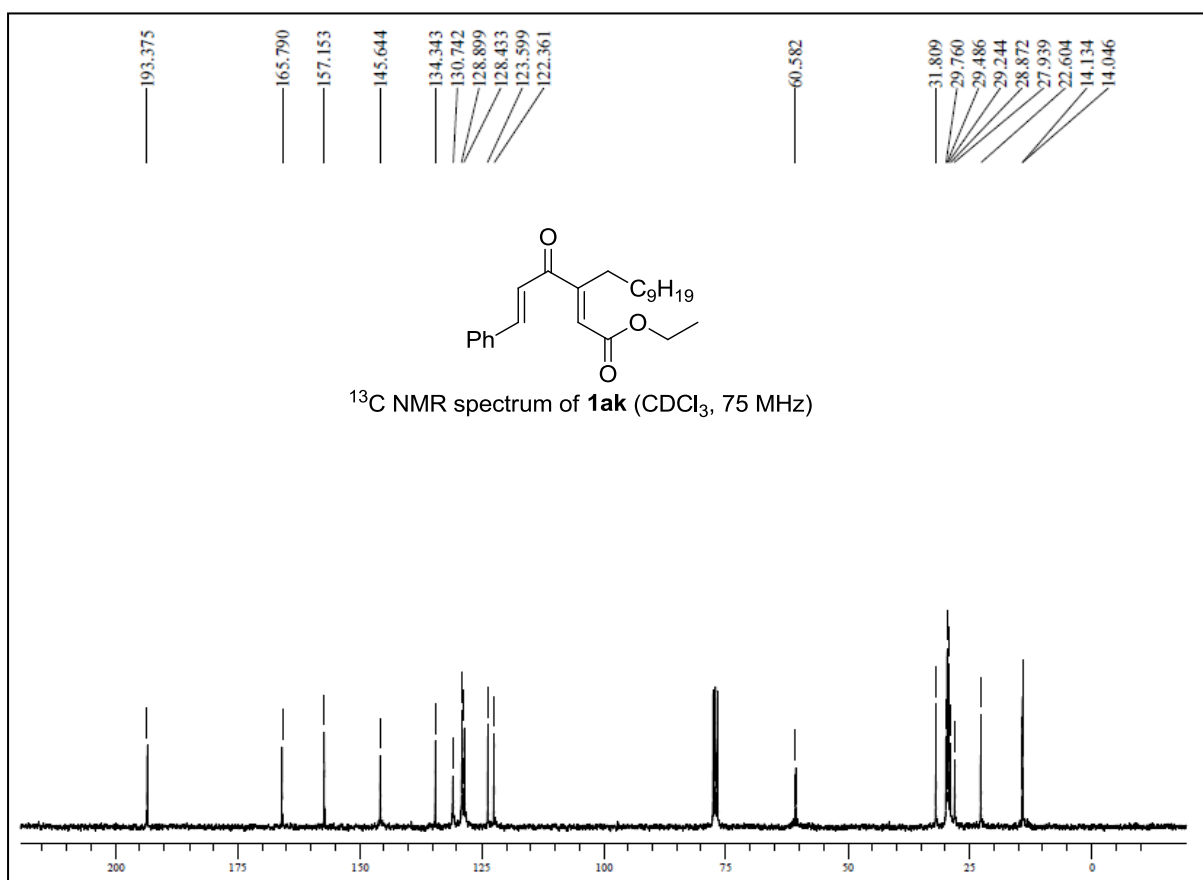
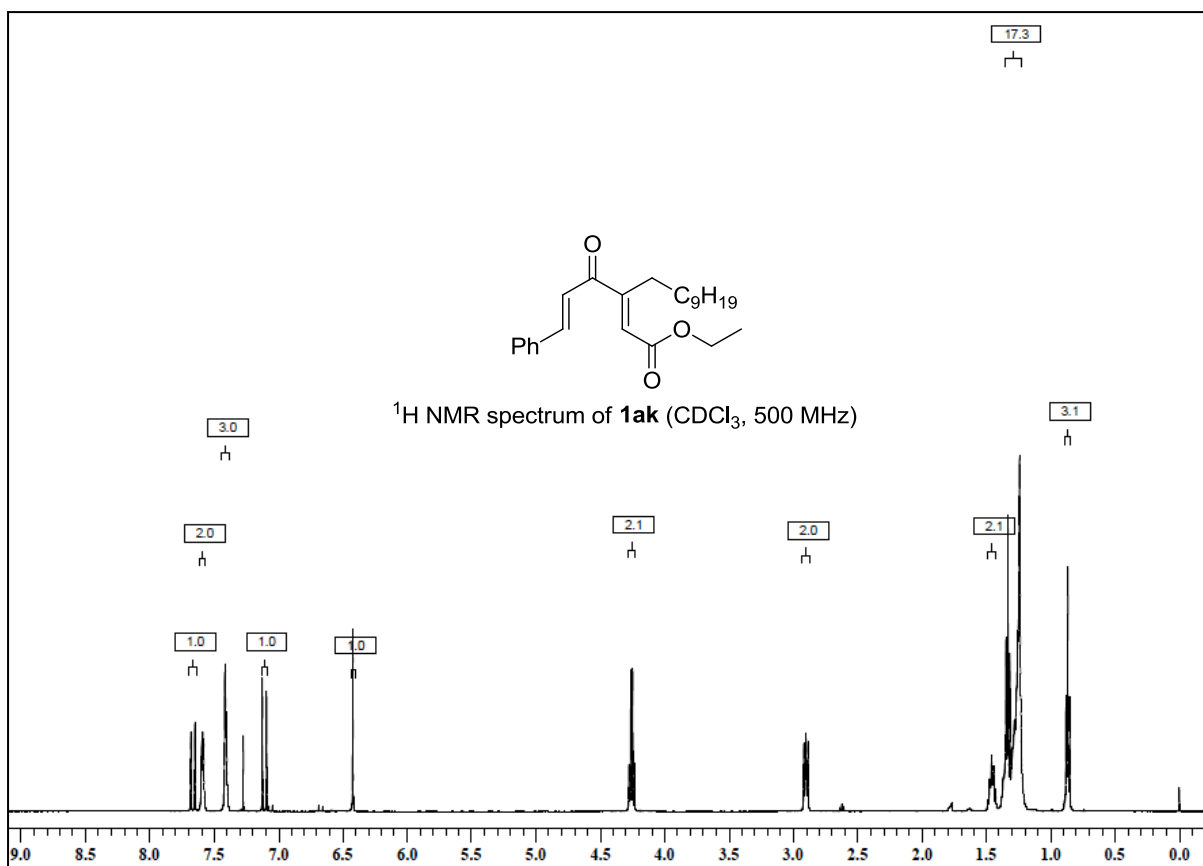
$^1\text{H}$  NMR spectrum of **1ai** ( $\text{CDCl}_3$ , 300 MHz)



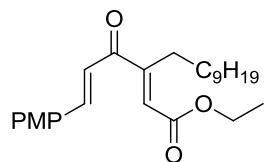
$^{13}\text{C}$  NMR spectrum of **1ai** ( $\text{CDCl}_3$ , 75 MHz)



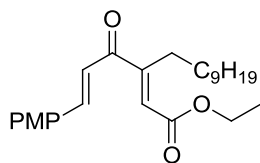
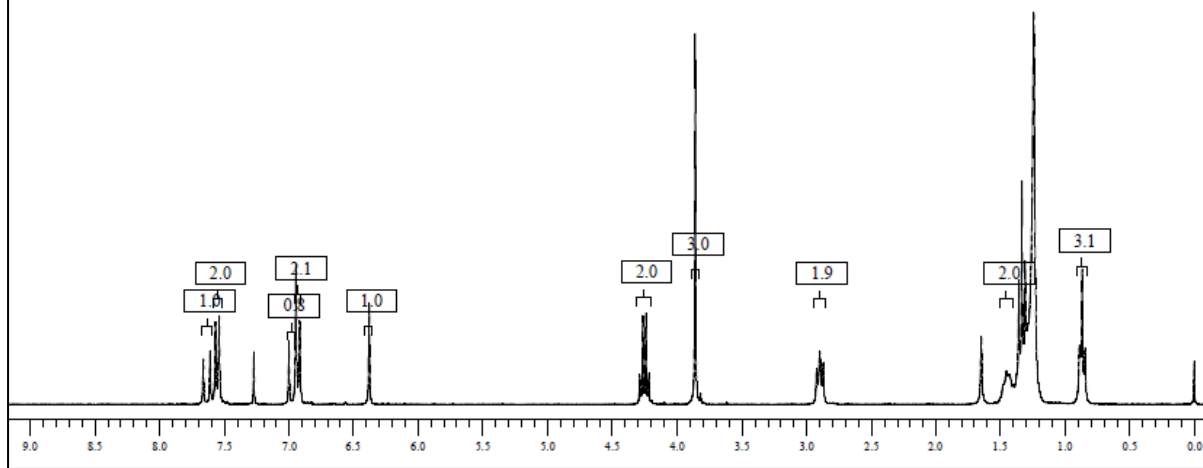




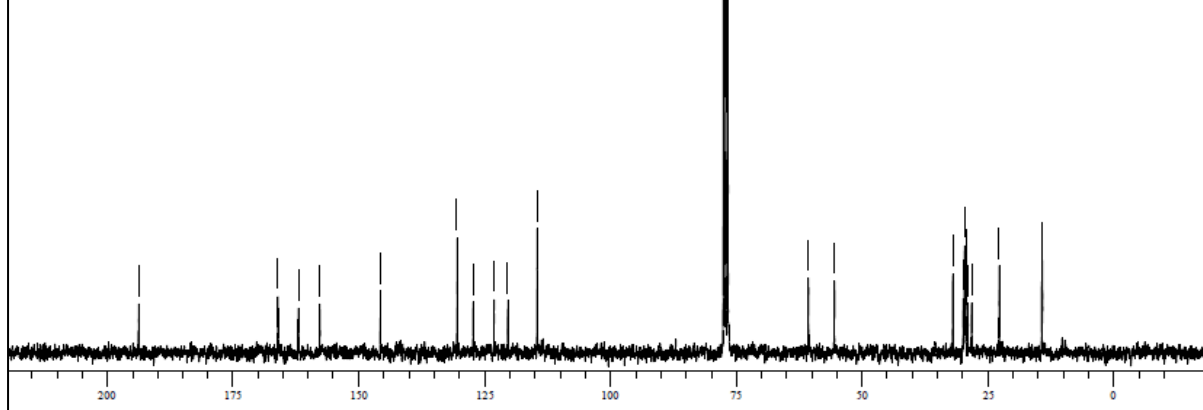


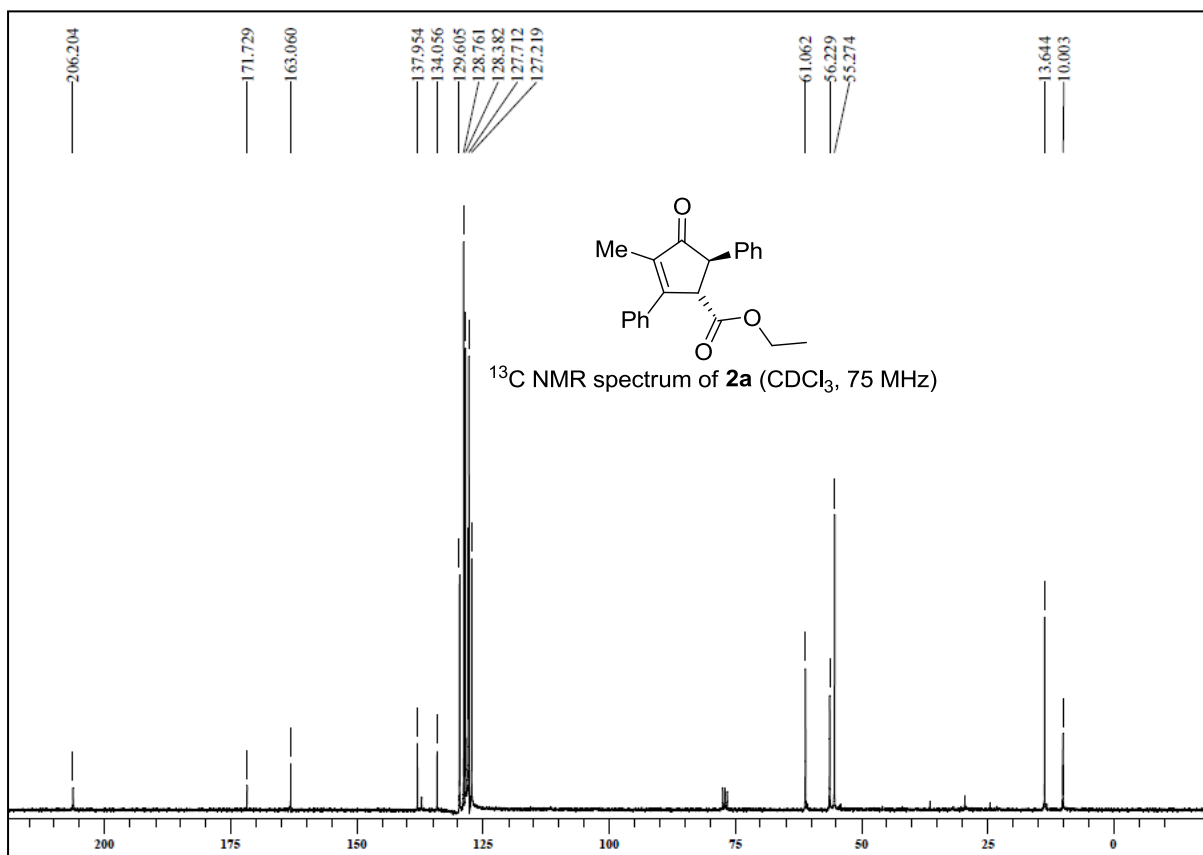
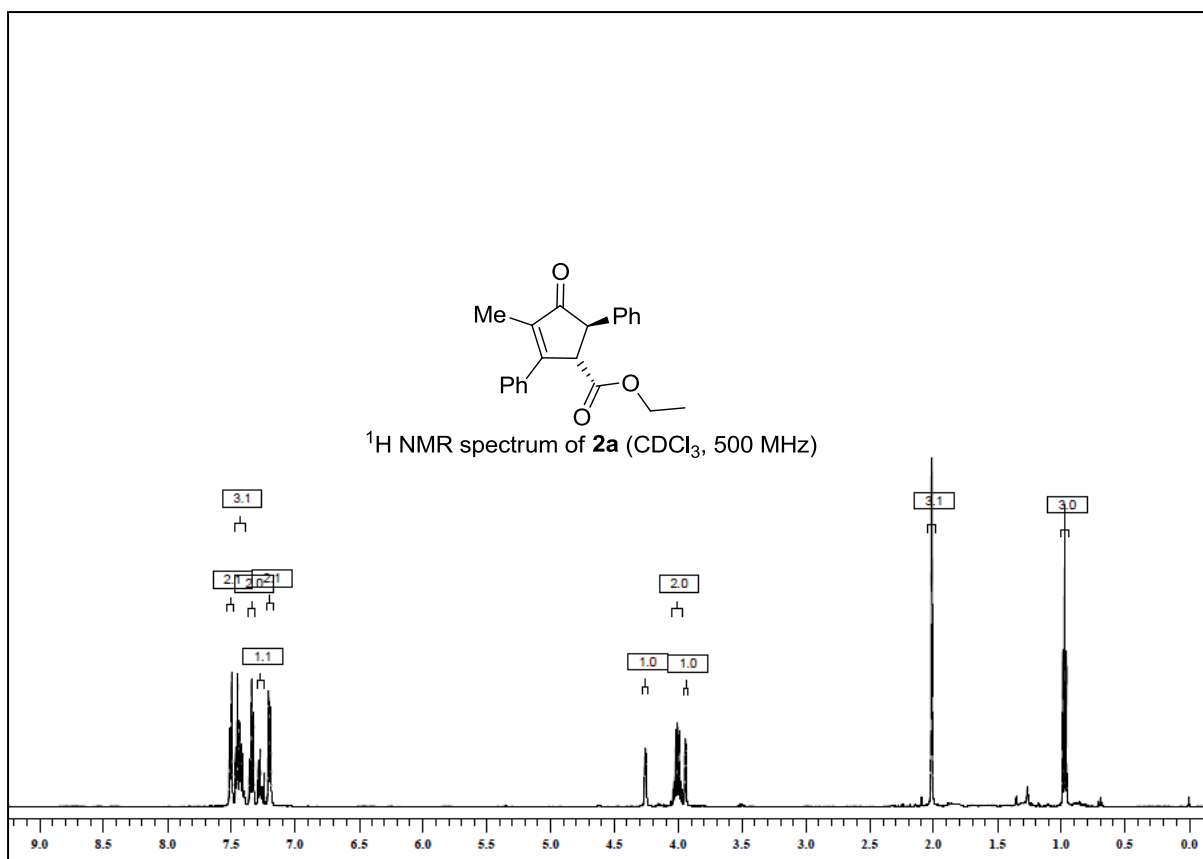


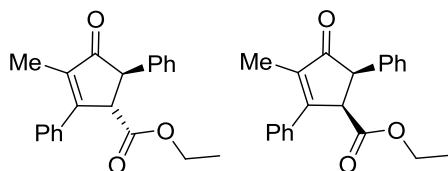
$^1\text{H}$  NMR spectrum of **1al** ( $\text{CDCl}_3$ , 300 MHz)



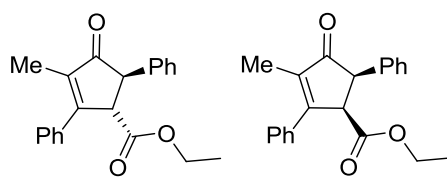
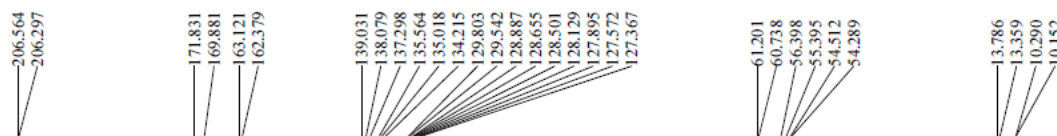
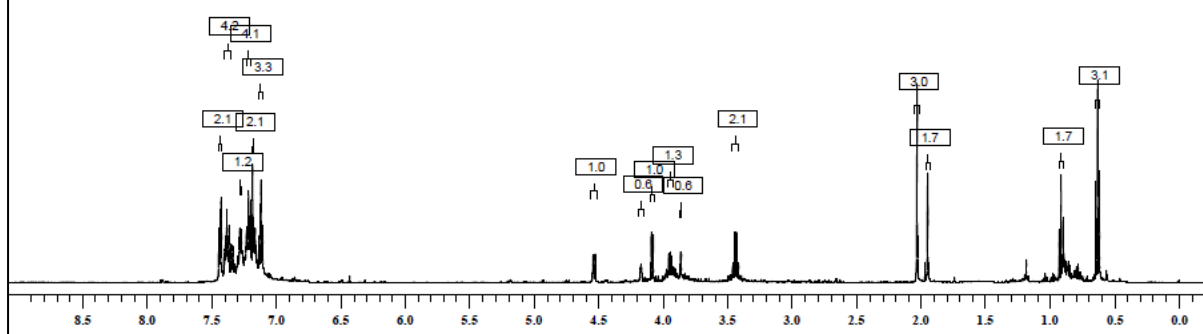
$^{13}\text{C}$  NMR spectrum of **1al** ( $\text{CDCl}_3$ , 75 MHz)



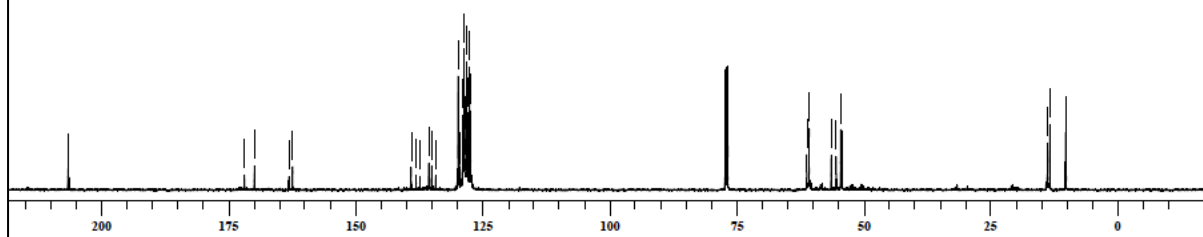


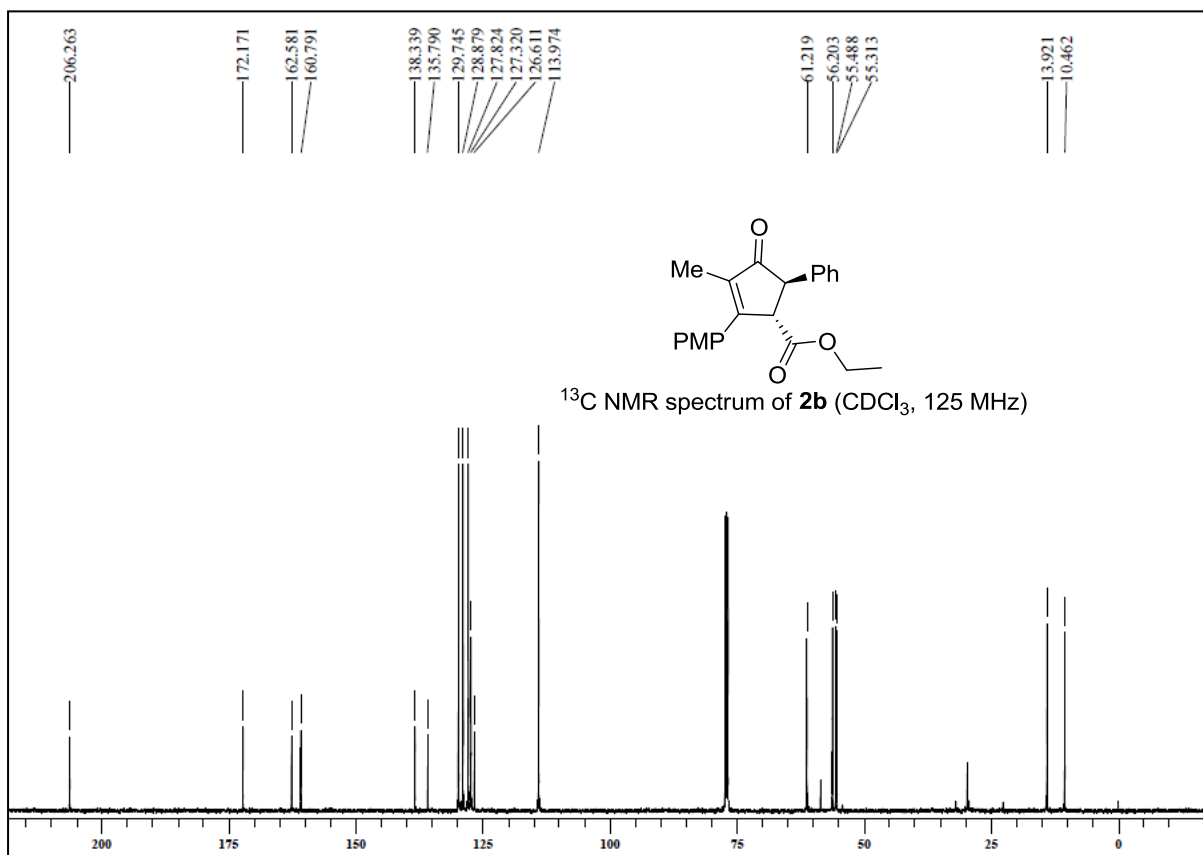
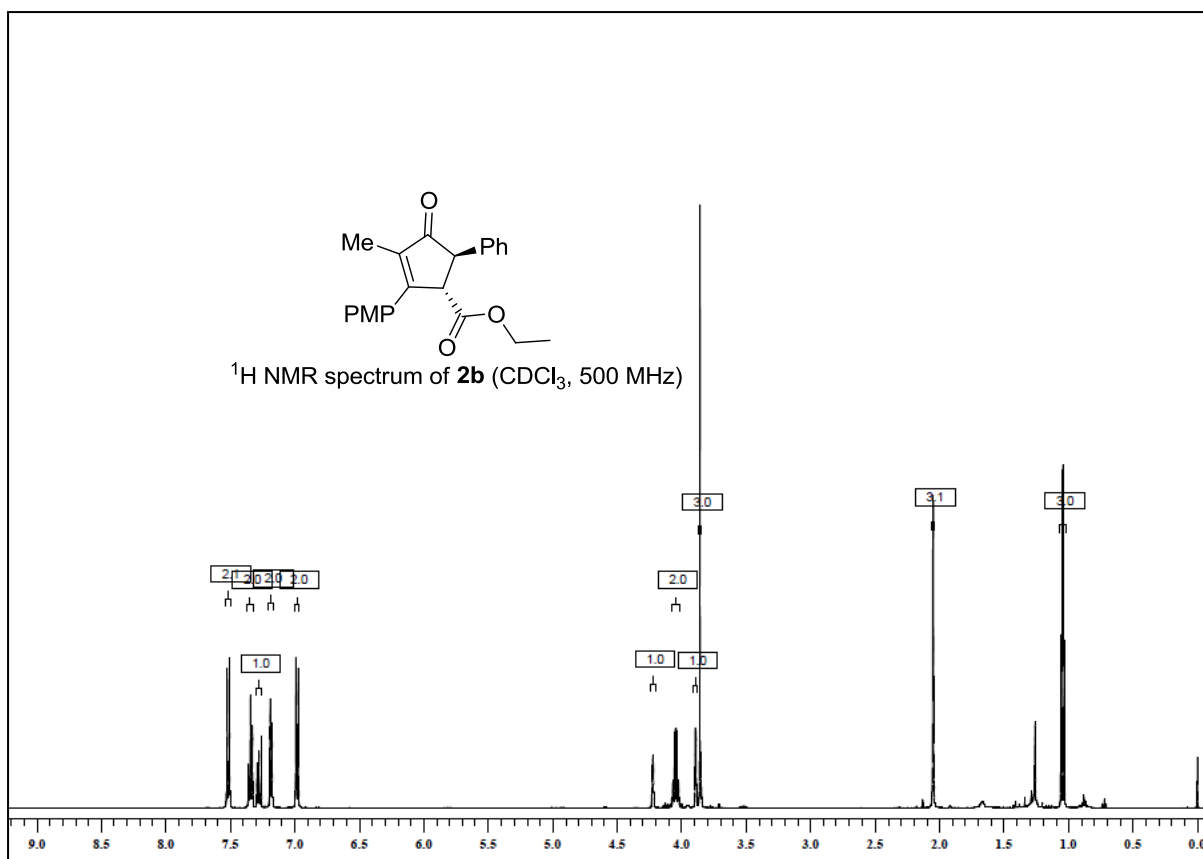


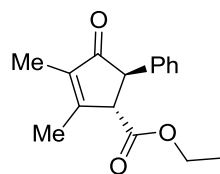
$^1\text{H}$  NMR spectrum of **2a** & **2'a** (0.6:1) ( $\text{CDCl}_3$ , 500 MHz)



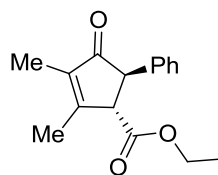
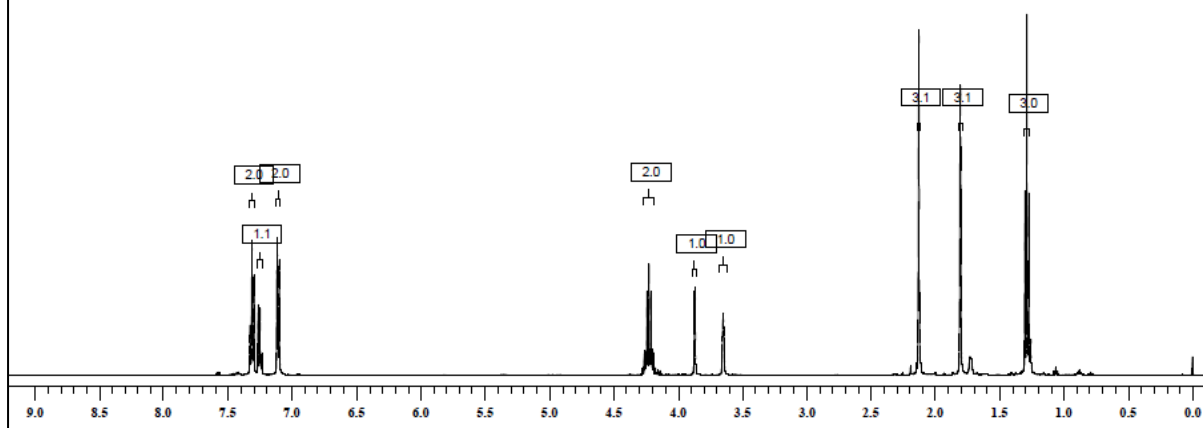
$^{13}\text{C}$  NMR spectrum of **2a** & **2'a** ( $\text{CDCl}_3$ , 125 MHz)



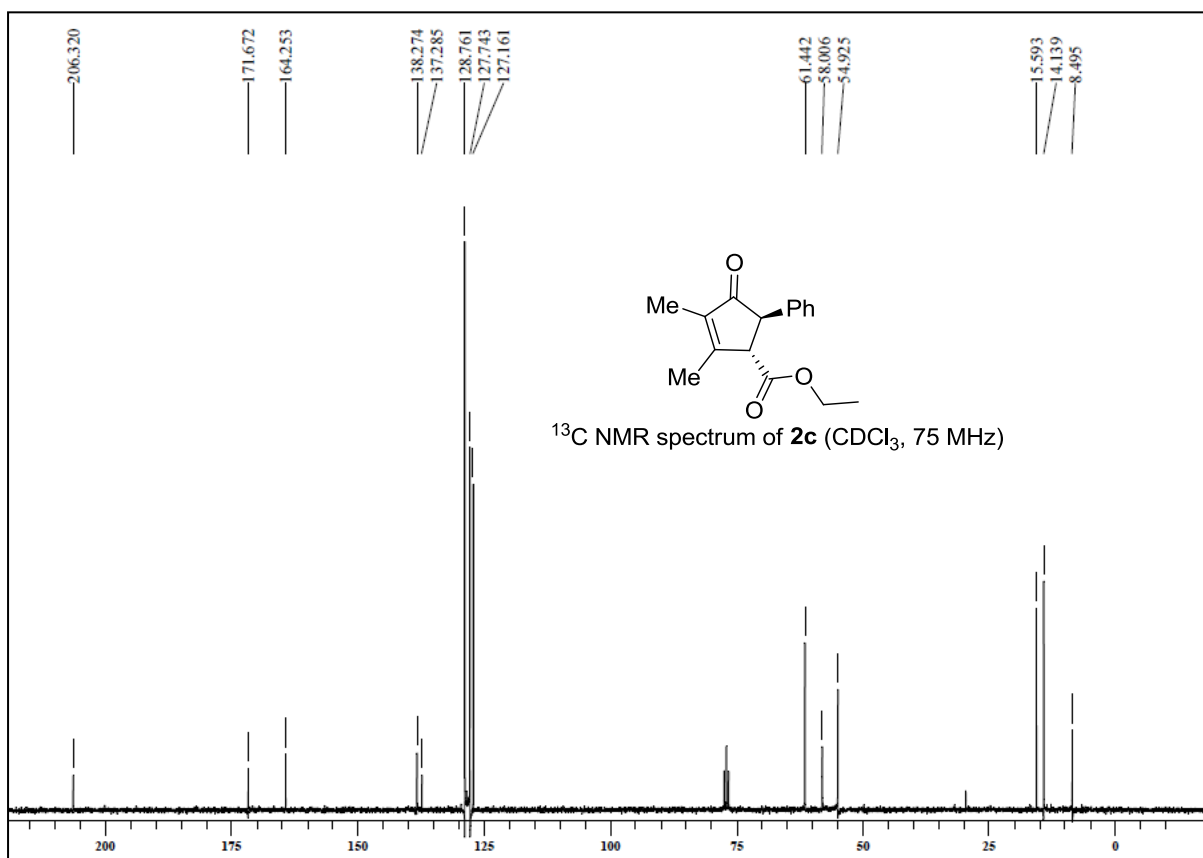


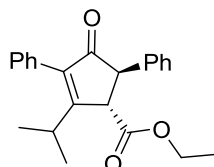


$^1\text{H}$  NMR spectrum of **2c** ( $\text{CDCl}_3$ , 500 MHz)

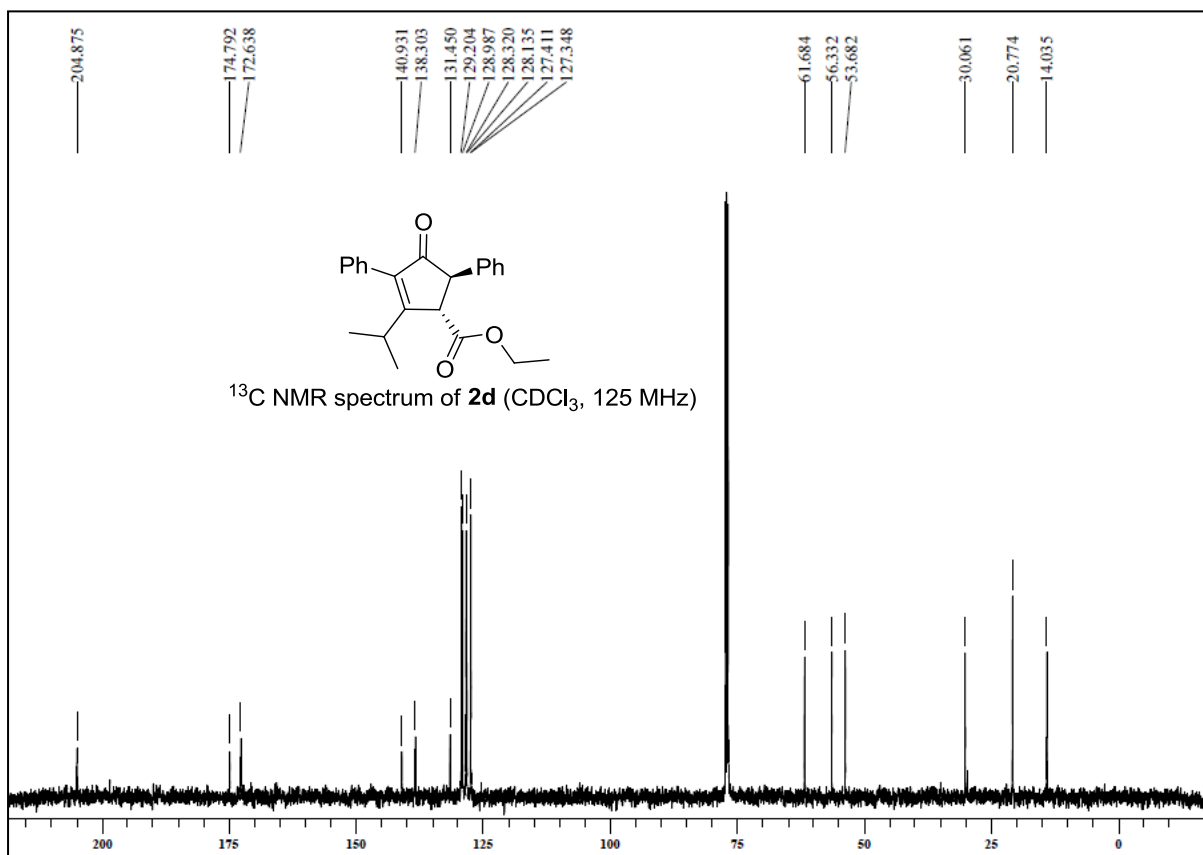
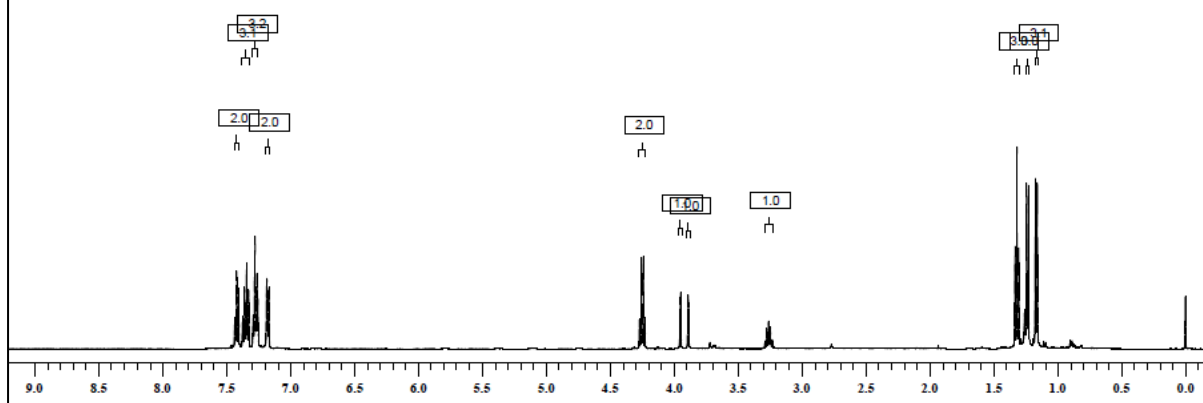


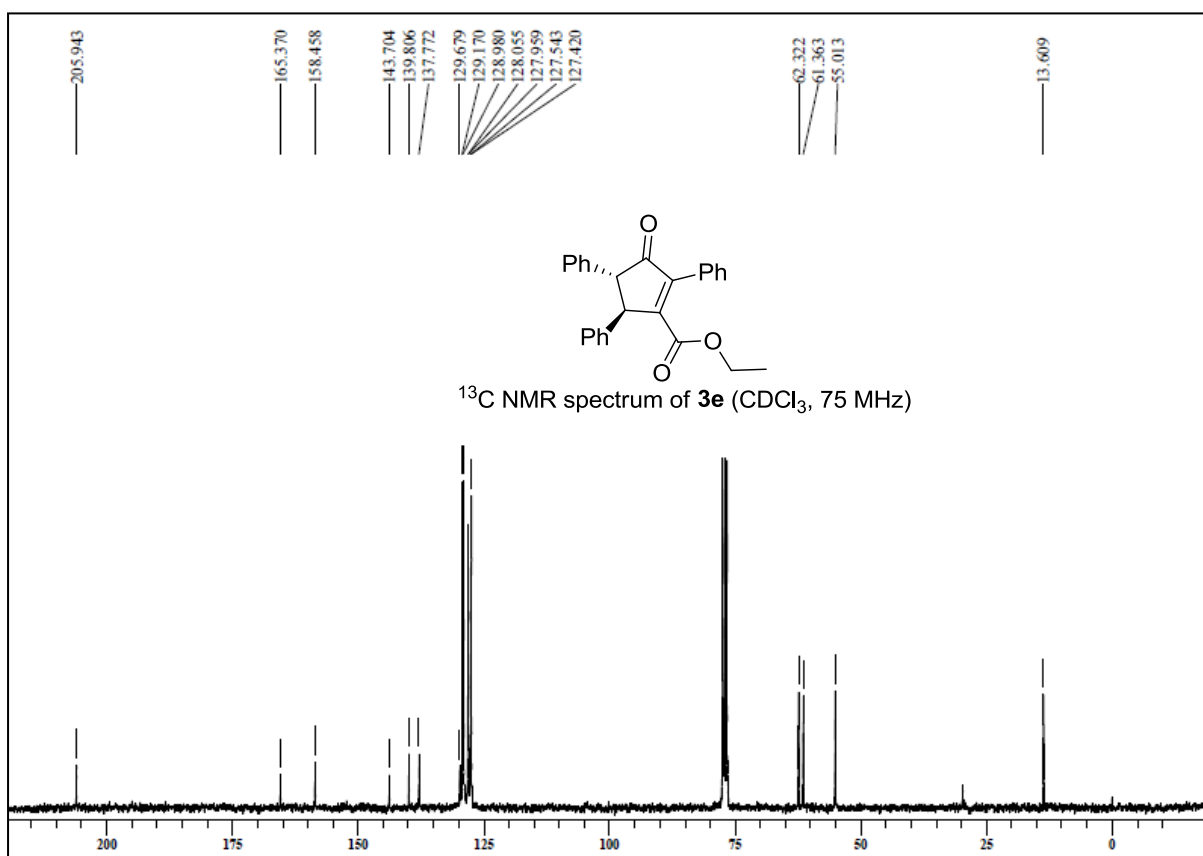
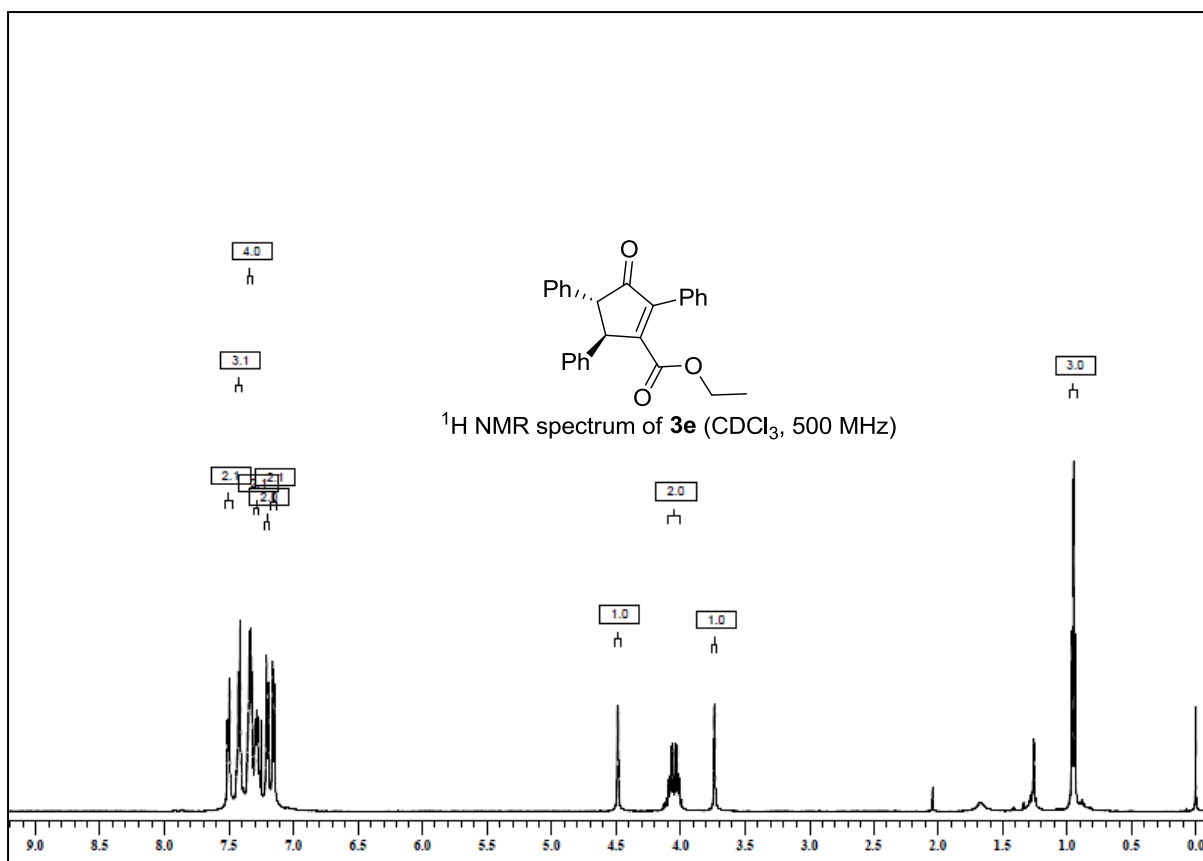
$^{13}\text{C}$  NMR spectrum of **2c** ( $\text{CDCl}_3$ , 75 MHz)

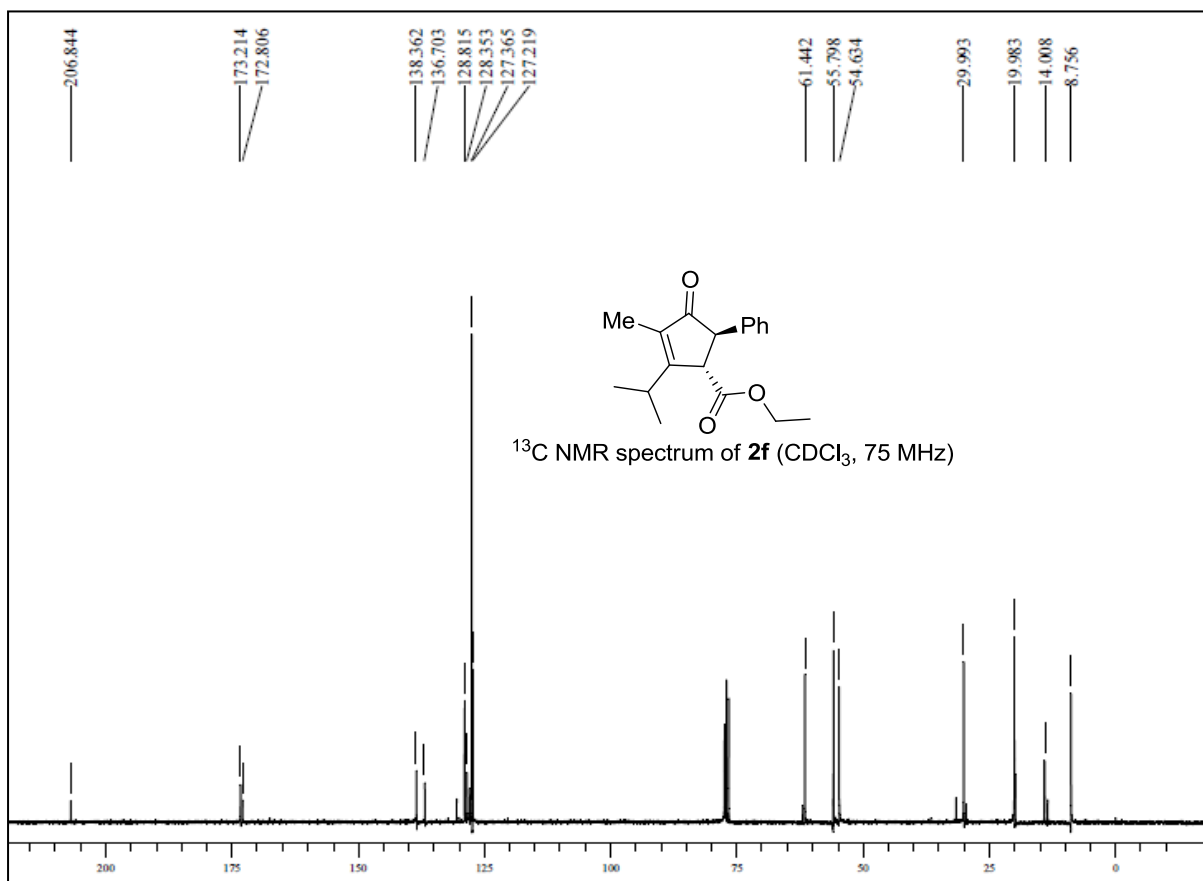
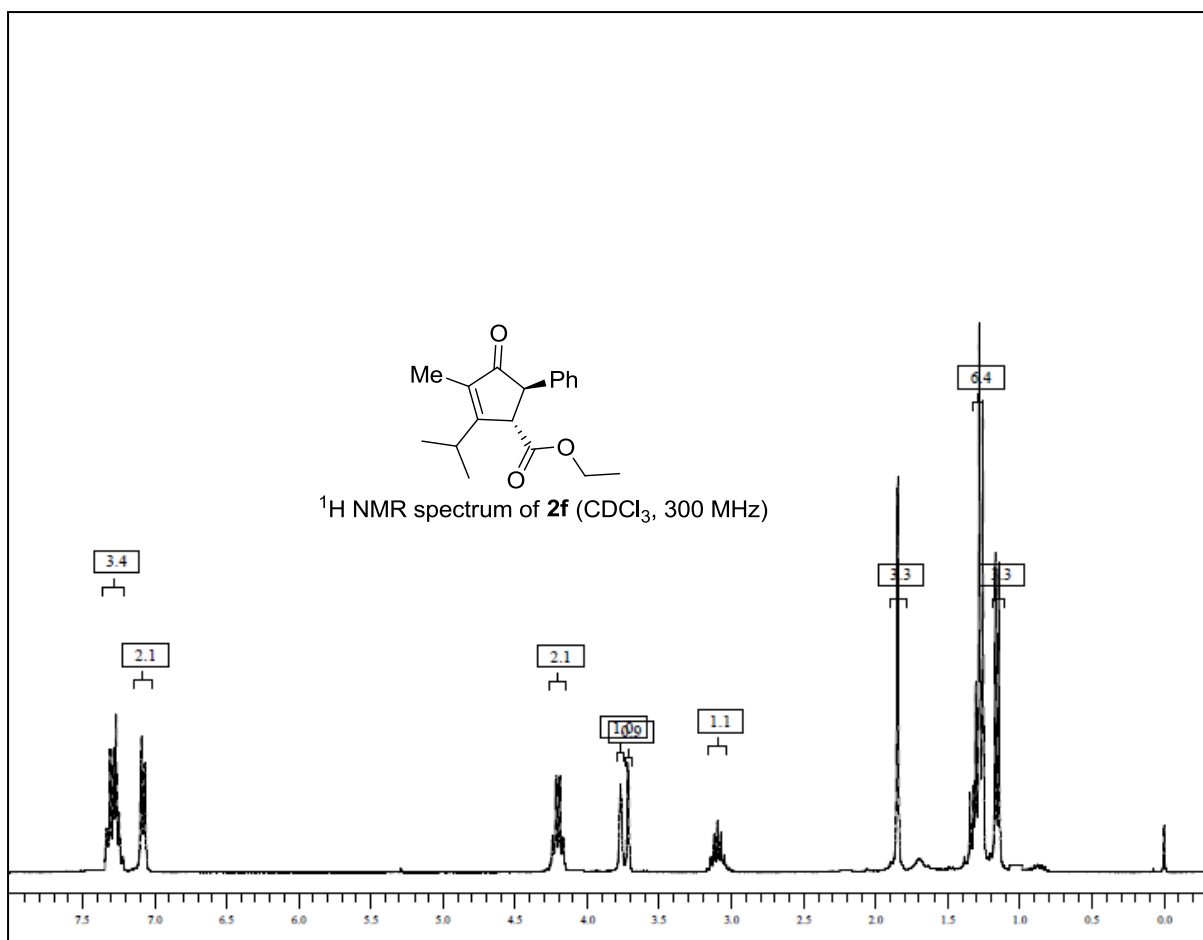




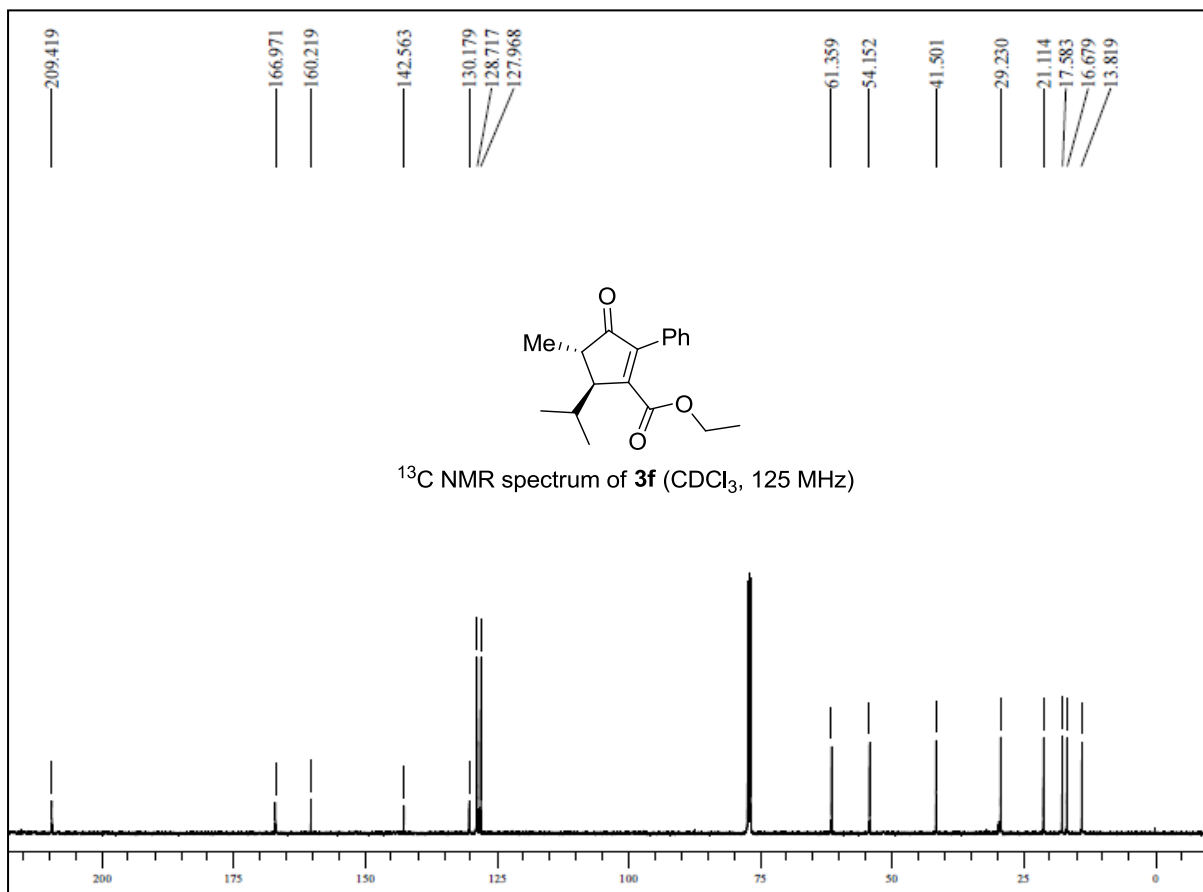
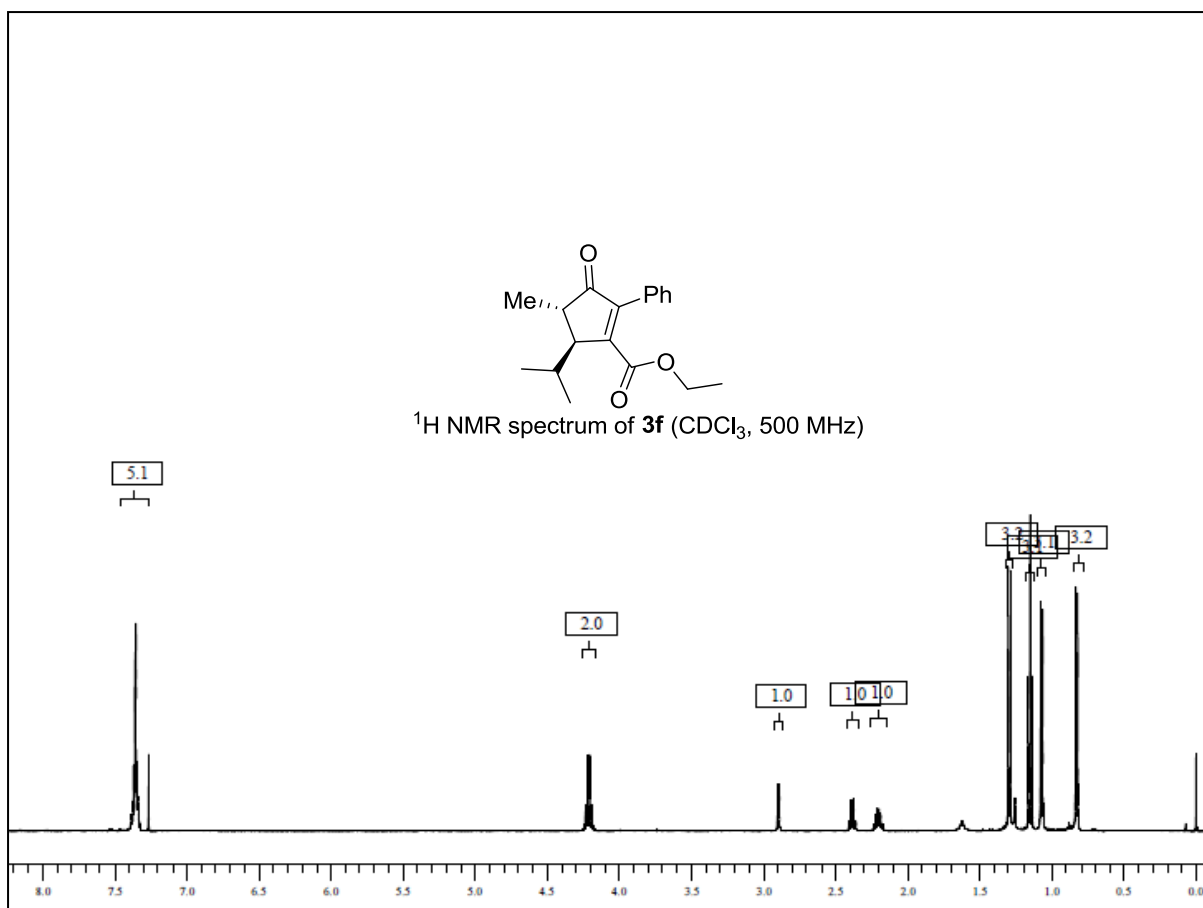
$^1\text{H}$  NMR spectrum of **2d** ( $\text{CDCl}_3$ , 500 MHz)

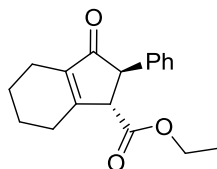




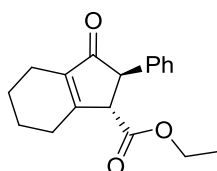
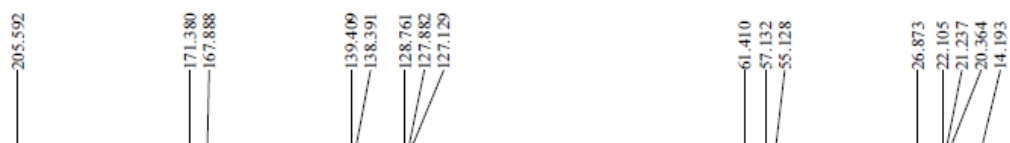
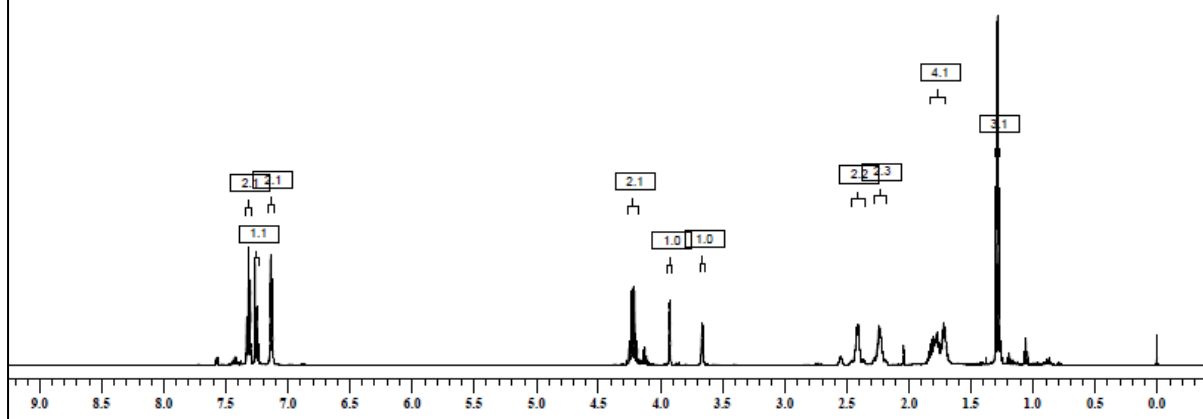




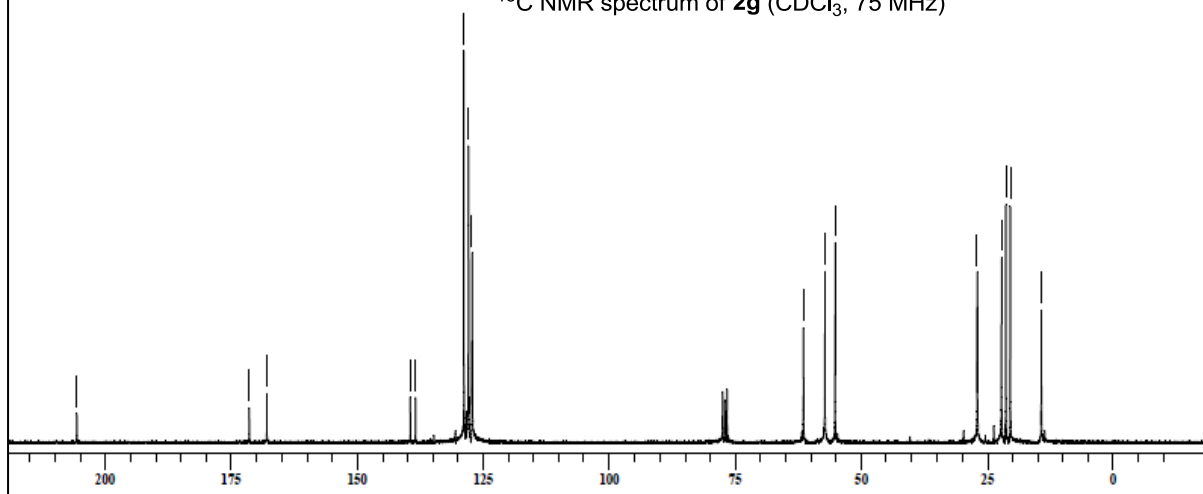


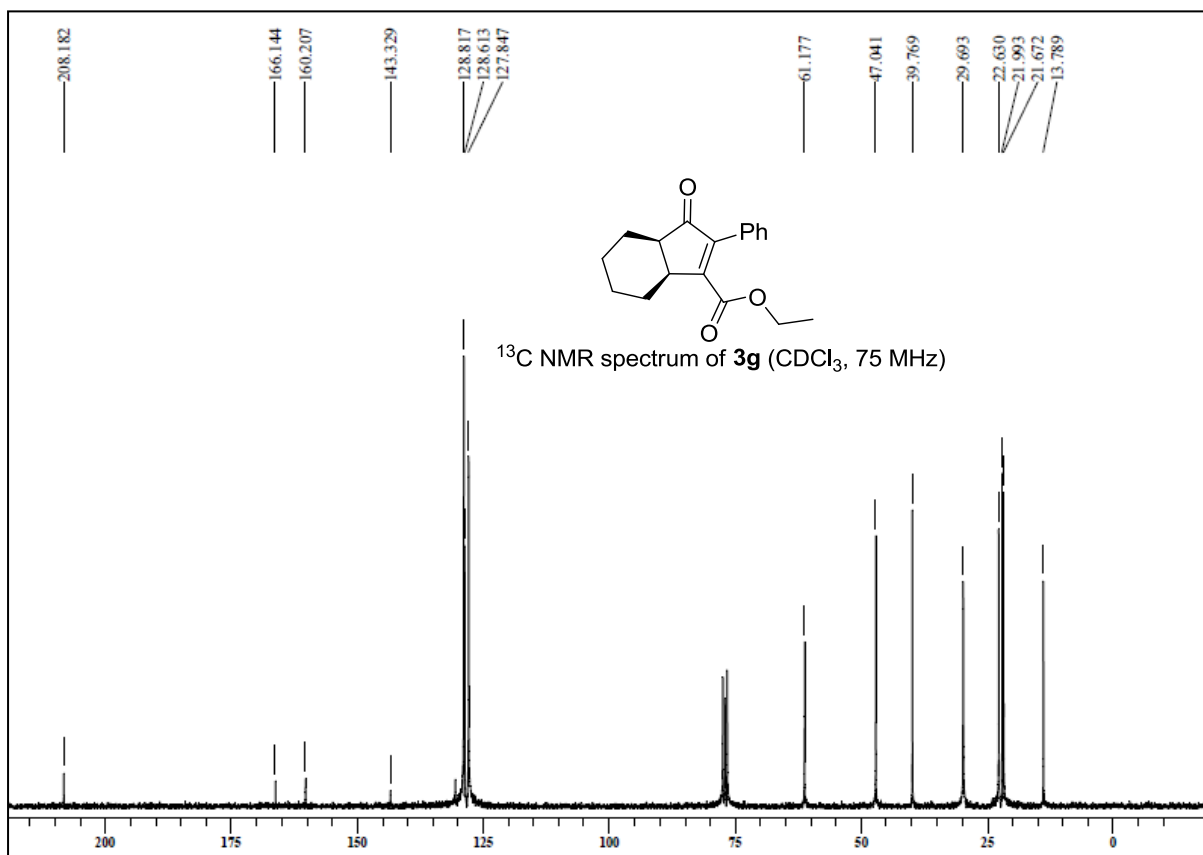
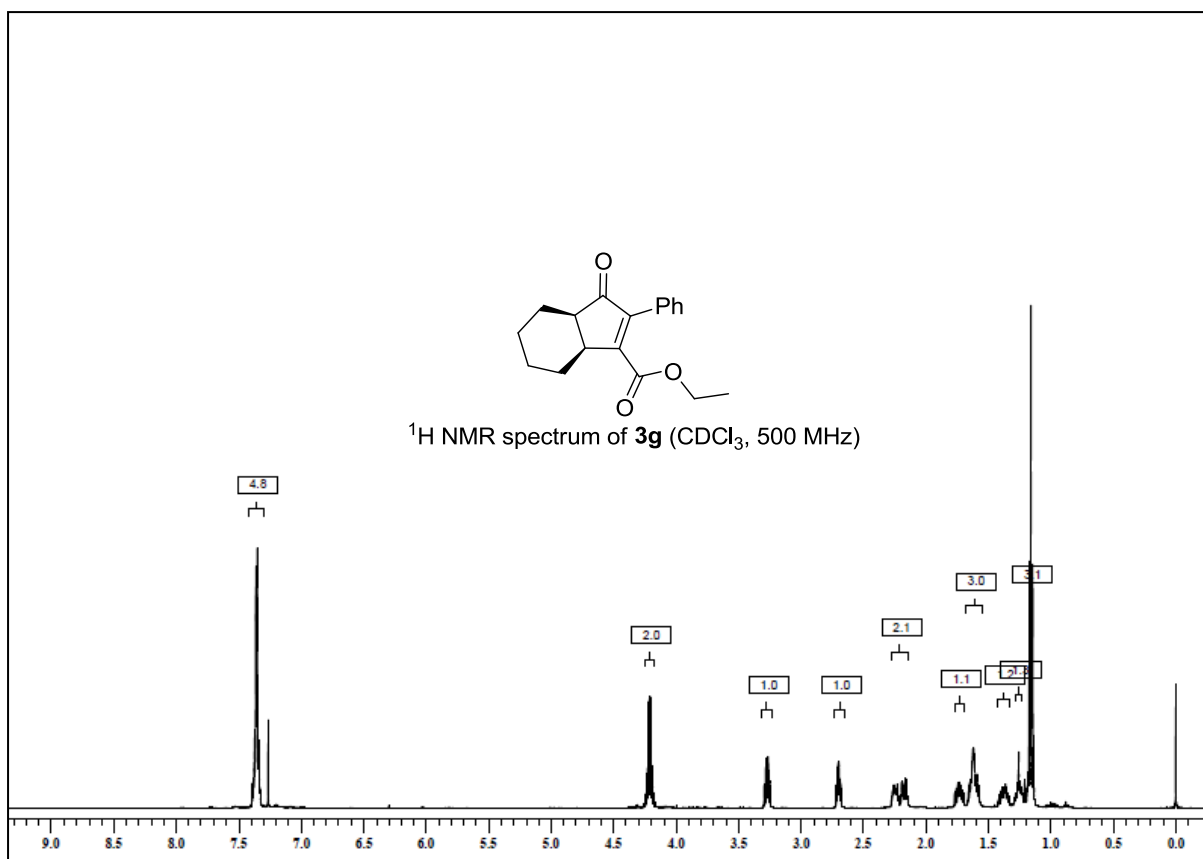


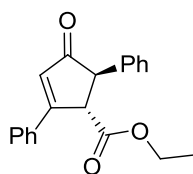
$^1\text{H}$  NMR spectrum of **2g** ( $\text{CDCl}_3$ , 500 MHz)



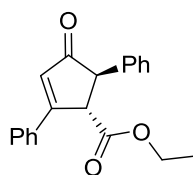
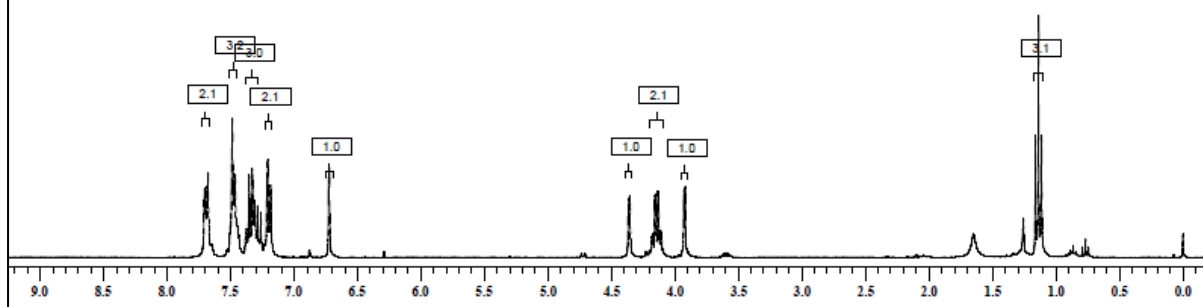
$^{13}\text{C}$  NMR spectrum of **2g** ( $\text{CDCl}_3$ , 75 MHz)



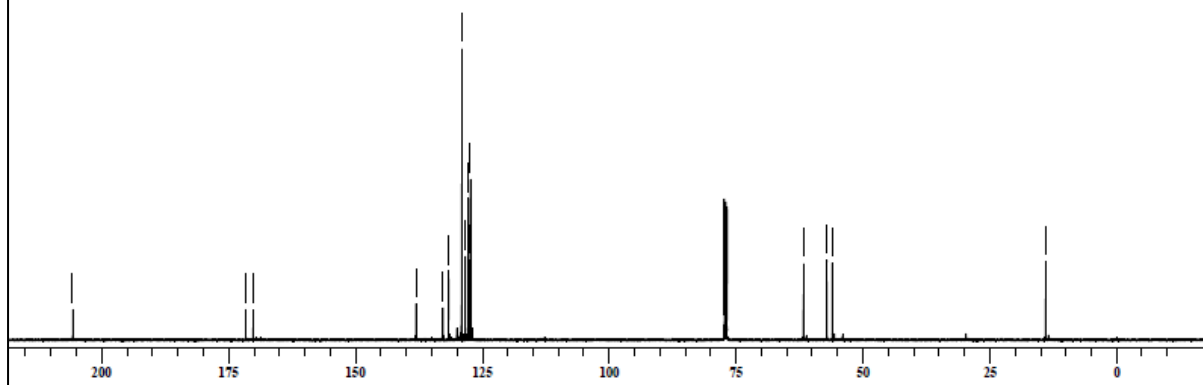


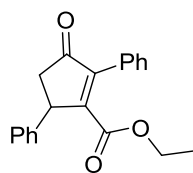


$^1\text{H}$  NMR spectrum of **2h** ( $\text{CDCl}_3$ , 300 MHz)

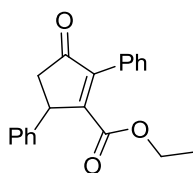
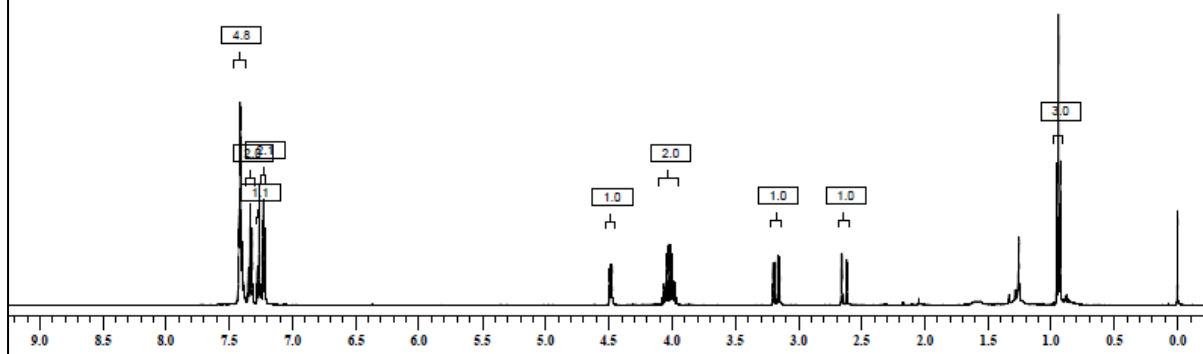


$^{13}\text{C}$  NMR spectrum of **2h** ( $\text{CDCl}_3$ , 125 MHz)

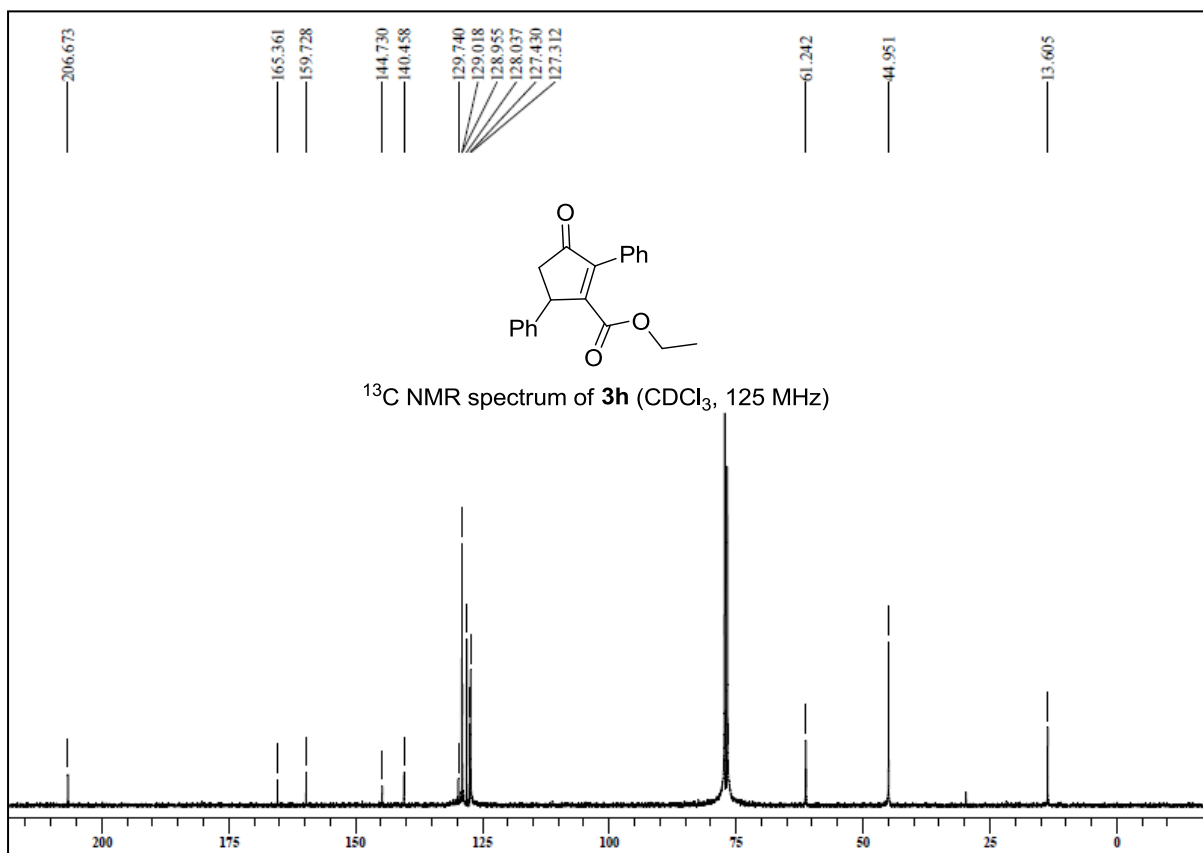


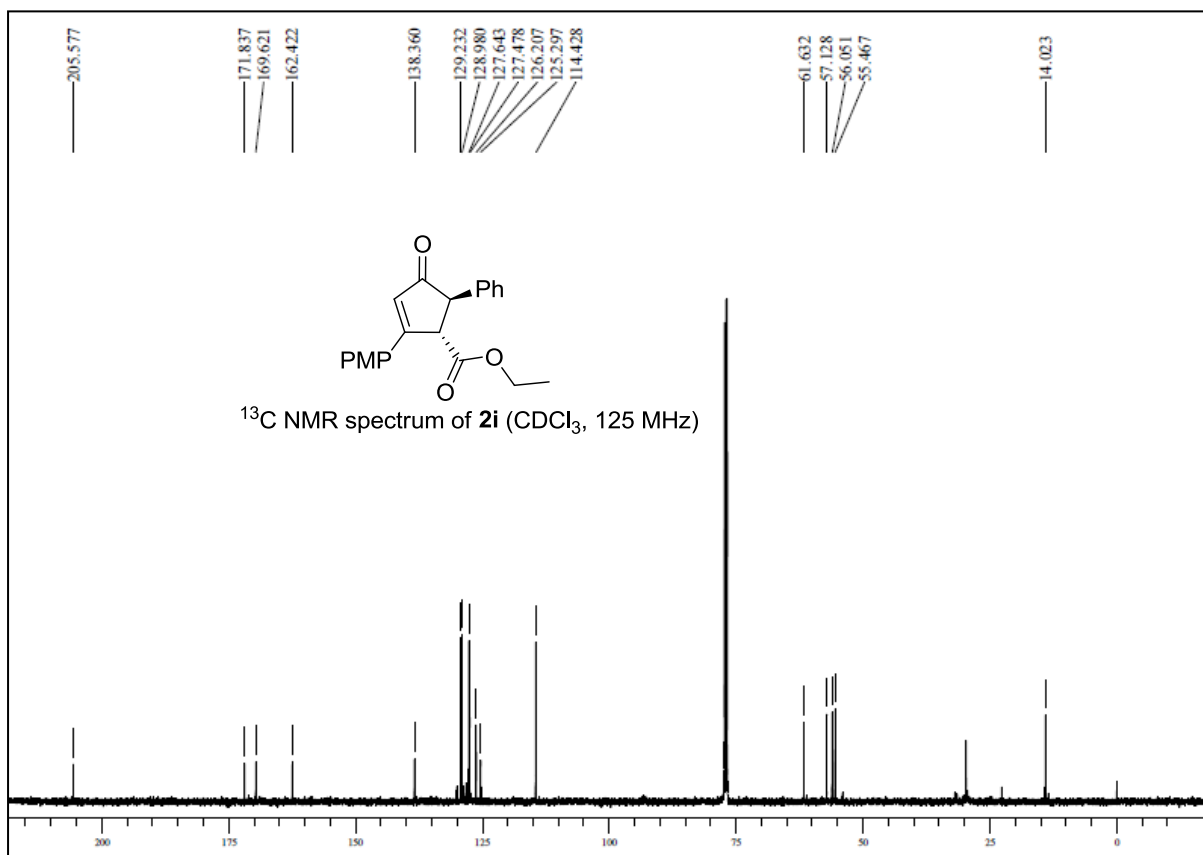
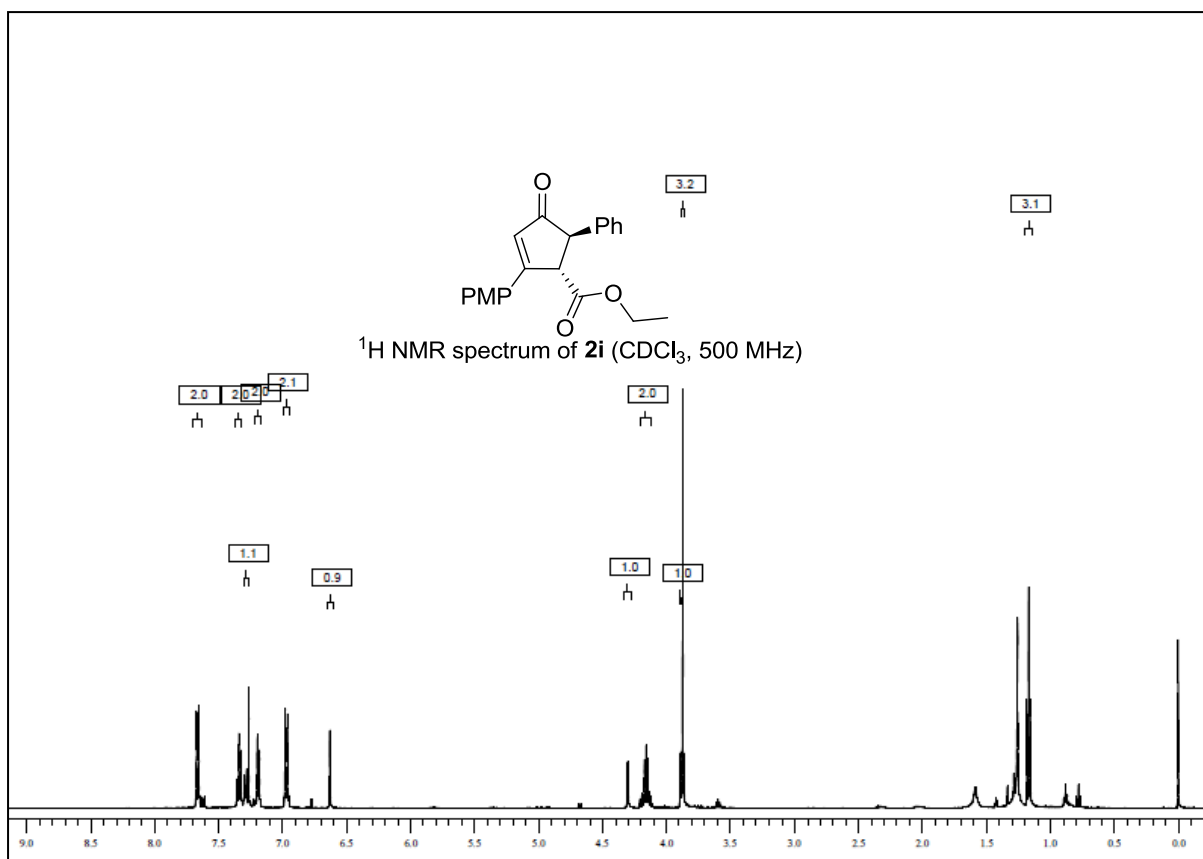


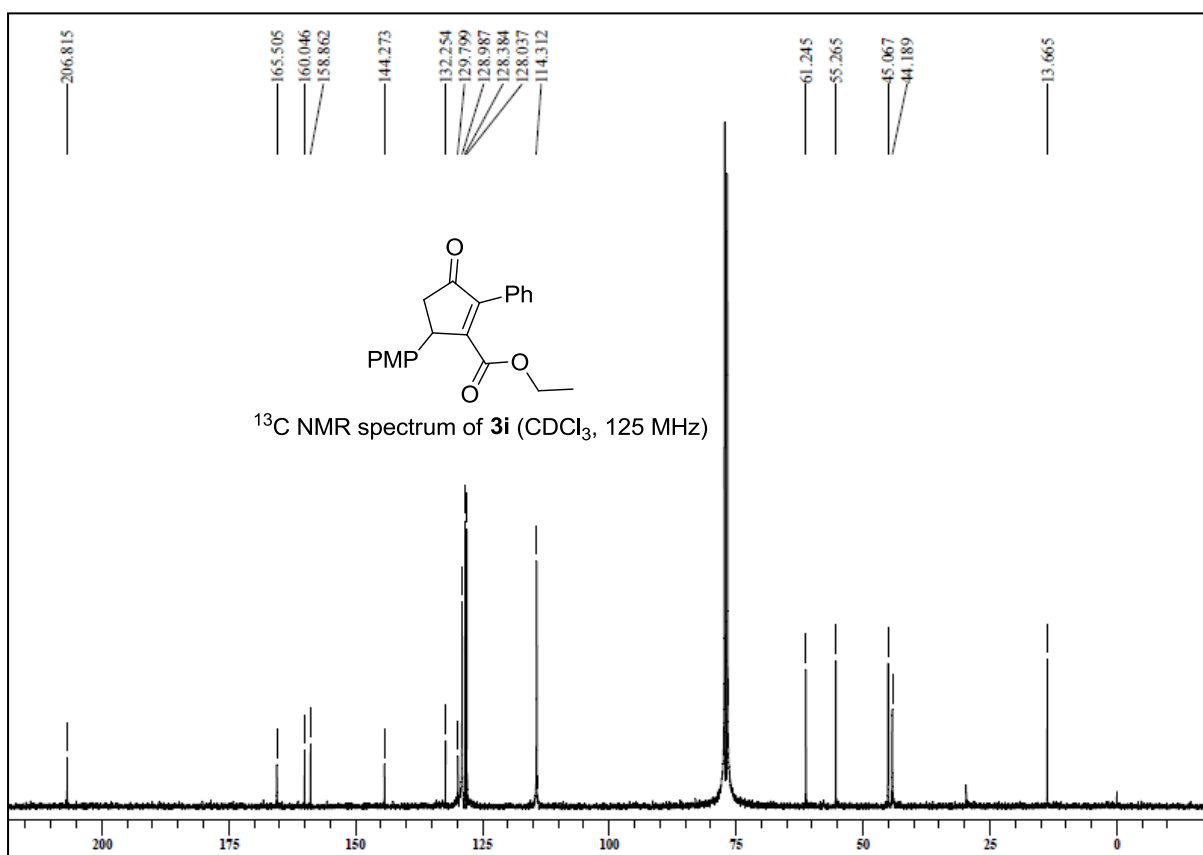
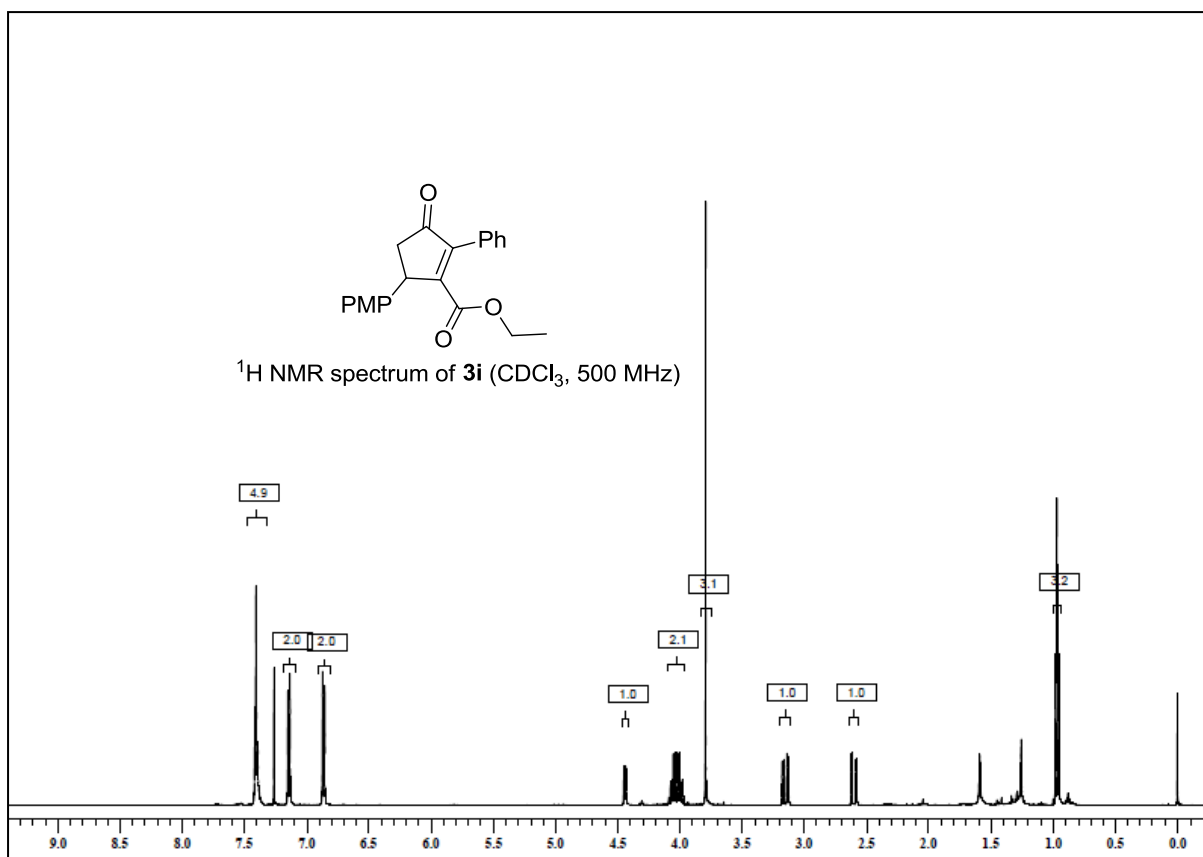
$^1\text{H}$  NMR spectrum of **3h** ( $\text{CDCl}_3$ , 500 MHz)

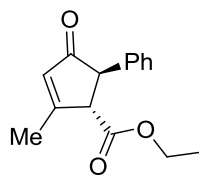


$^{13}\text{C}$  NMR spectrum of **3h** ( $\text{CDCl}_3$ , 125 MHz)

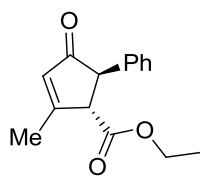
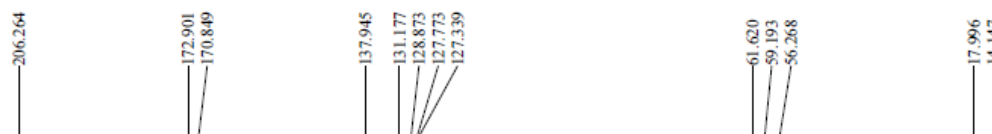
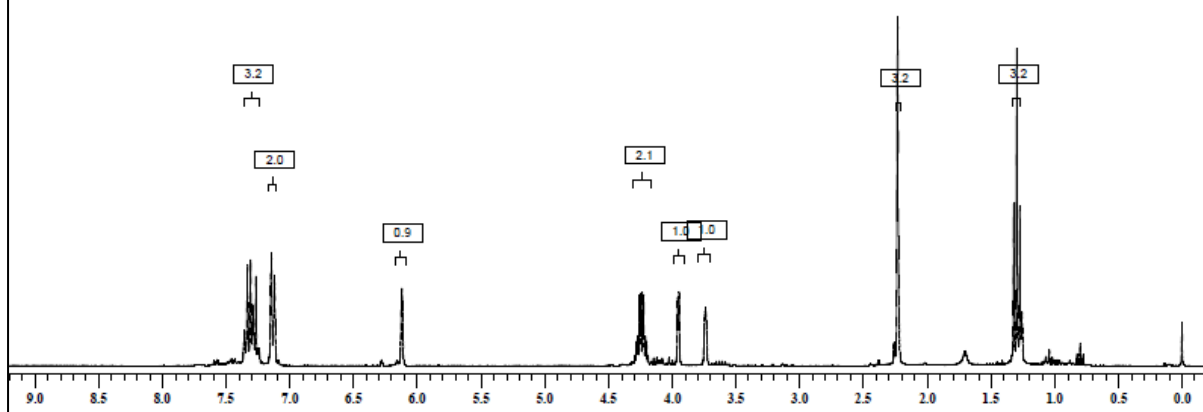




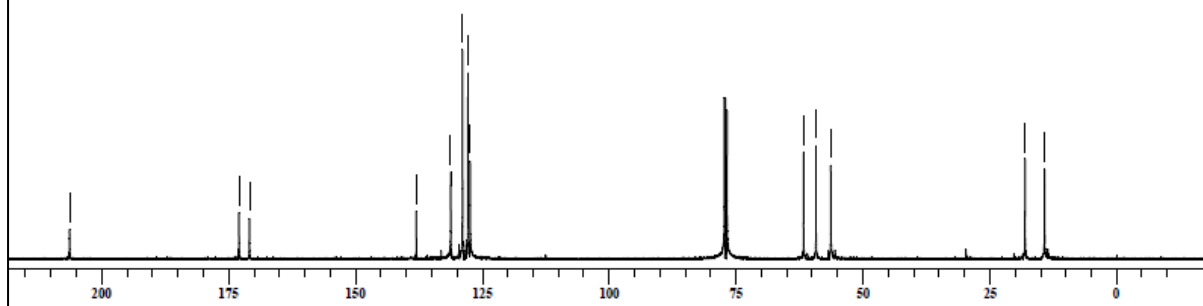




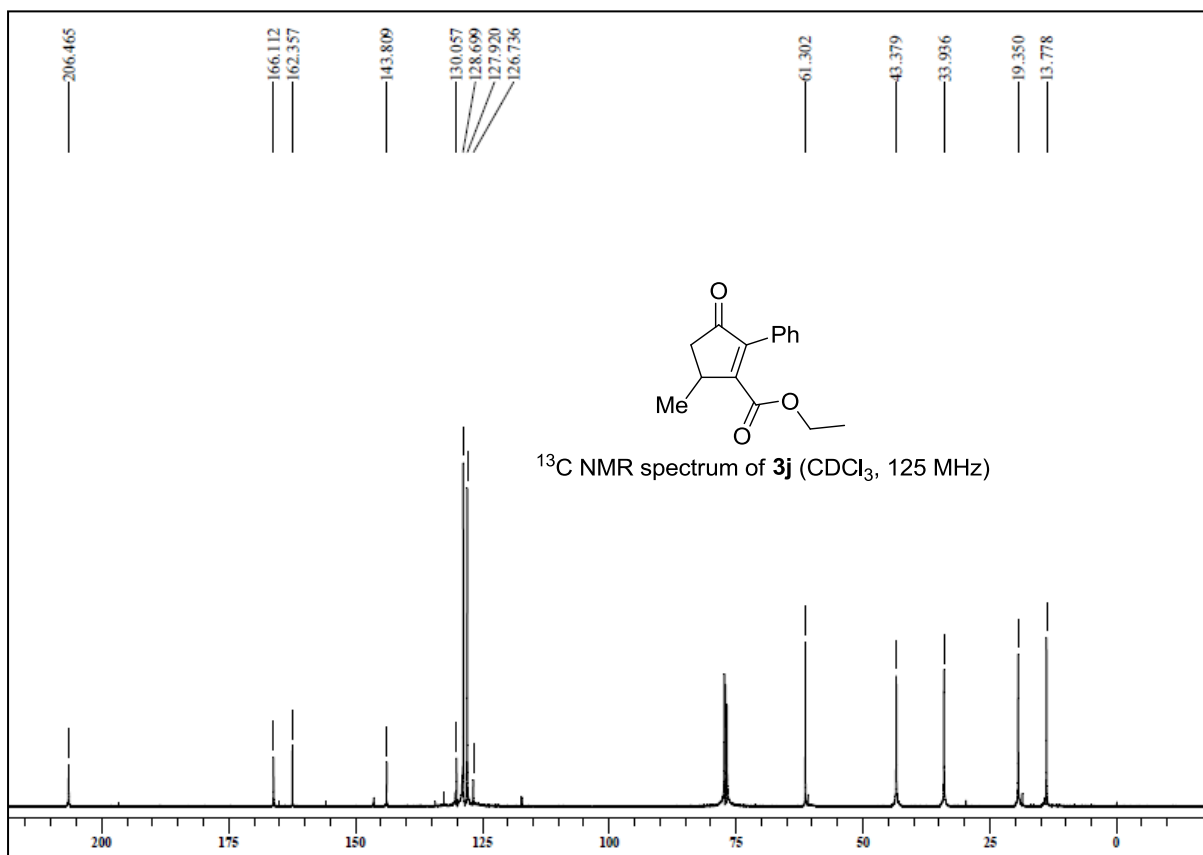
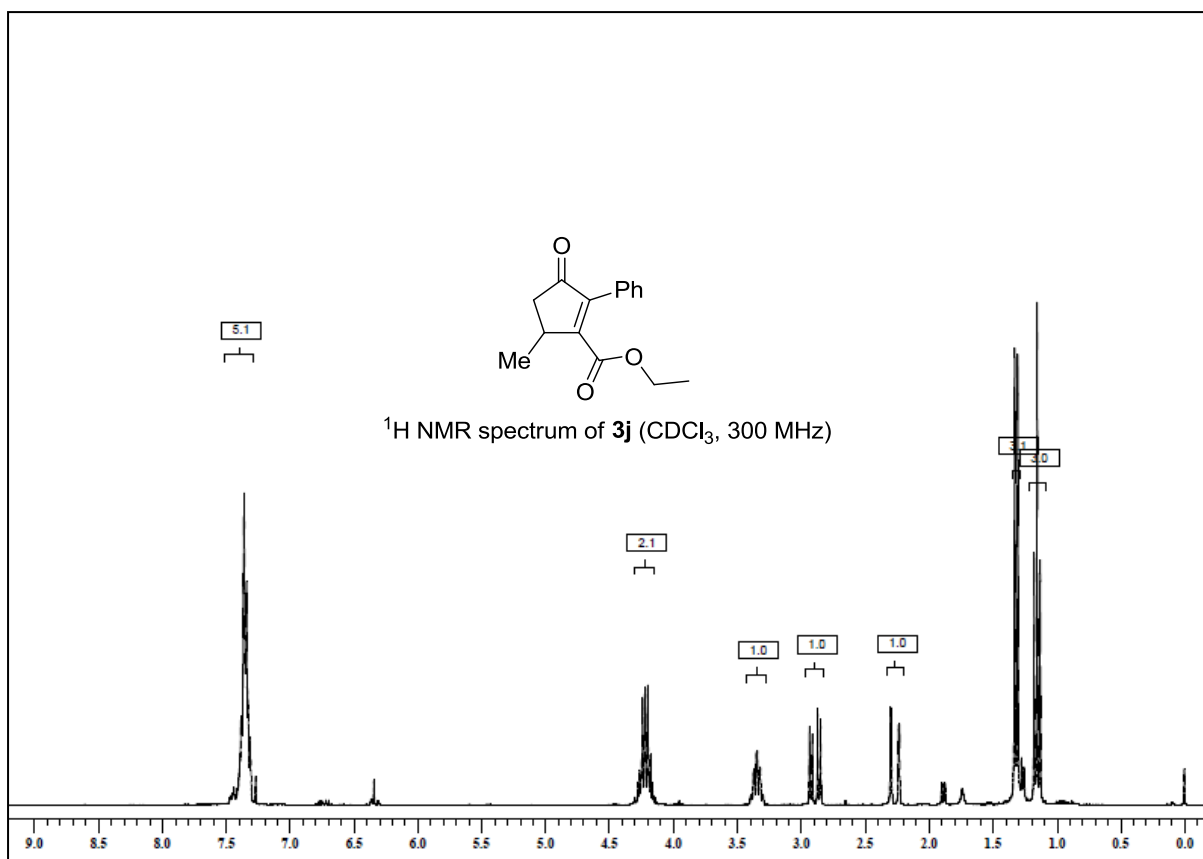
$^1\text{H}$  NMR spectrum of **2j** ( $\text{CDCl}_3$ , 300 MHz)

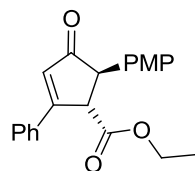


$^{13}\text{C}$  NMR spectrum of **2j** ( $\text{CDCl}_3$ , 125 MHz)

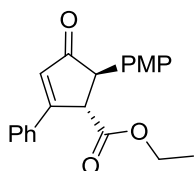
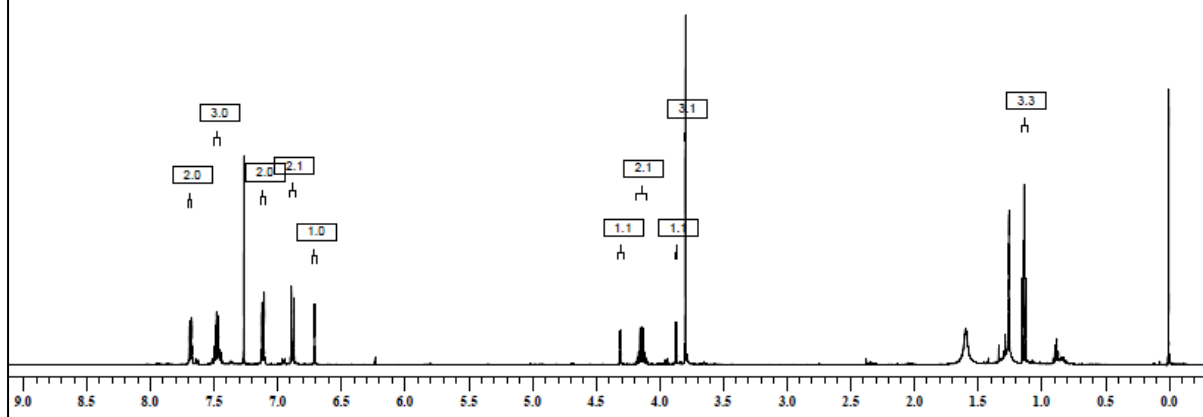




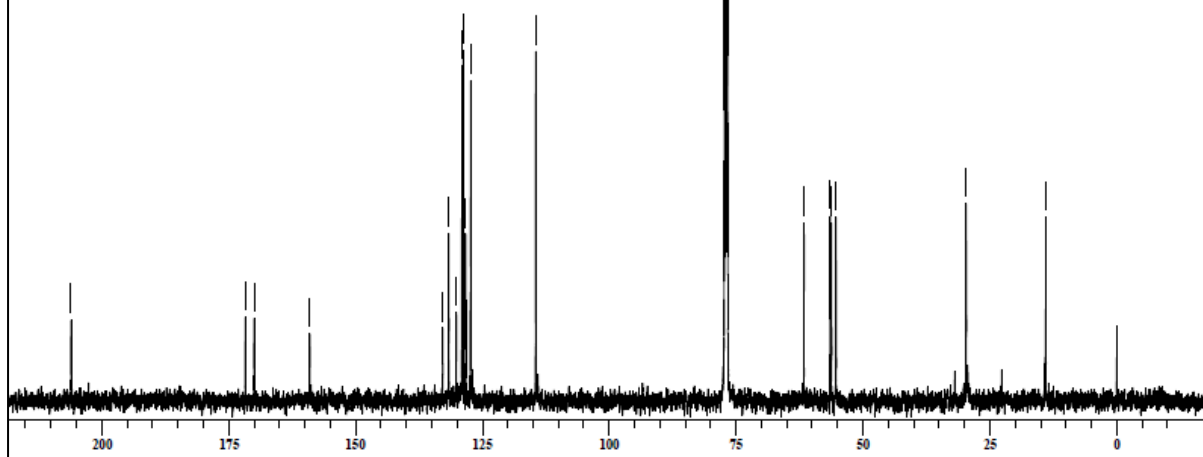


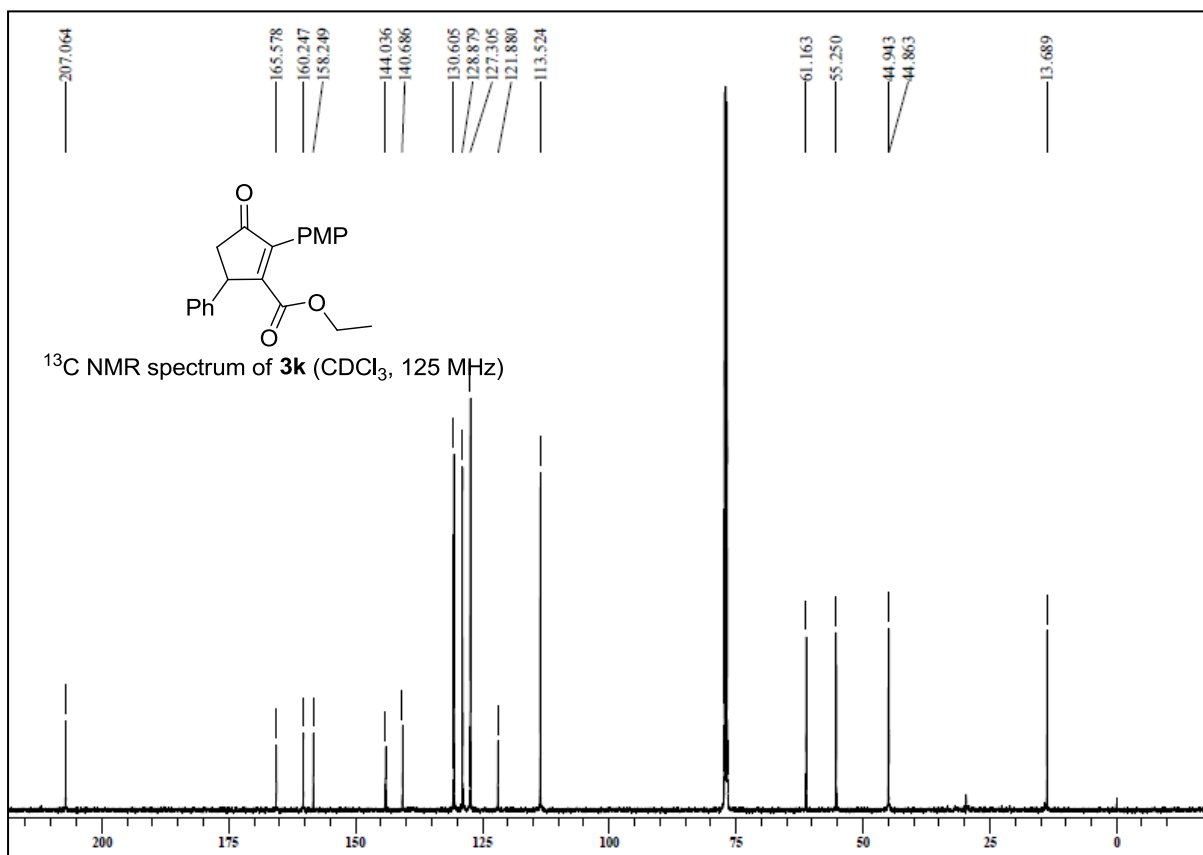
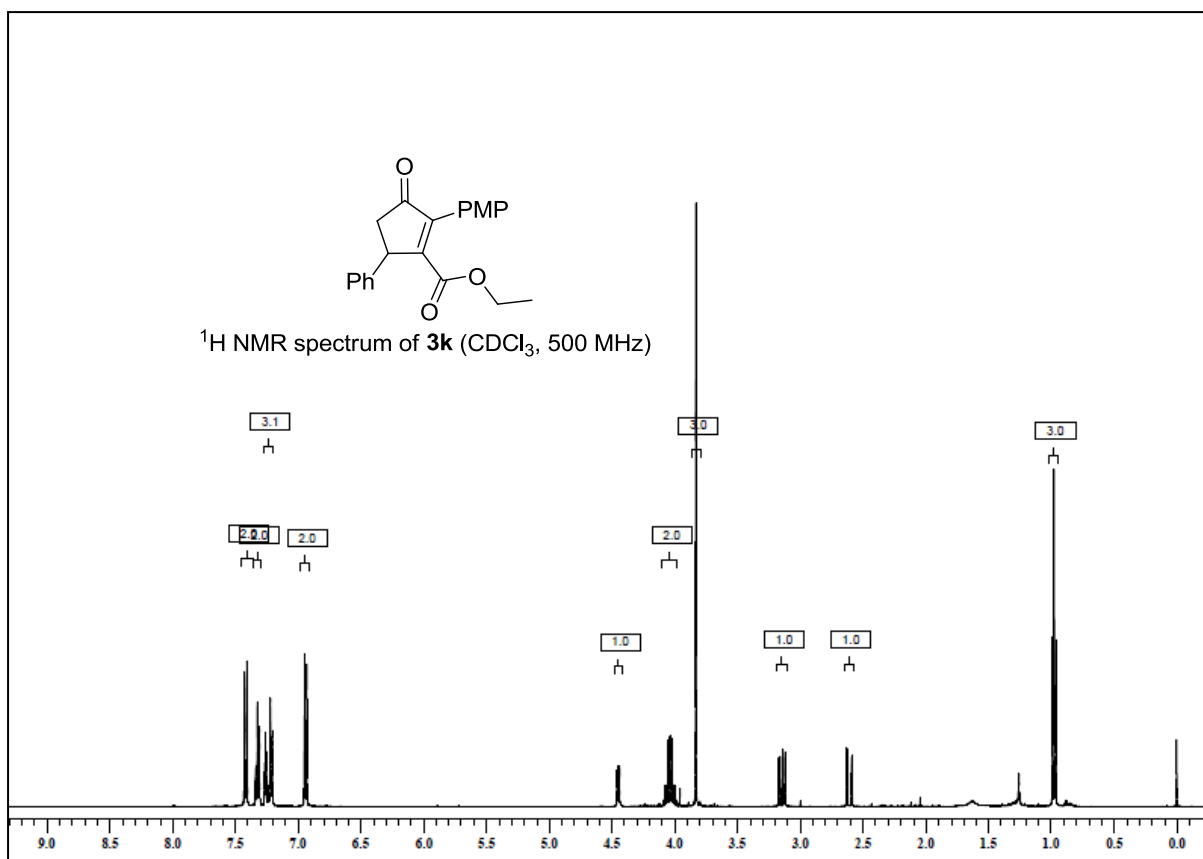


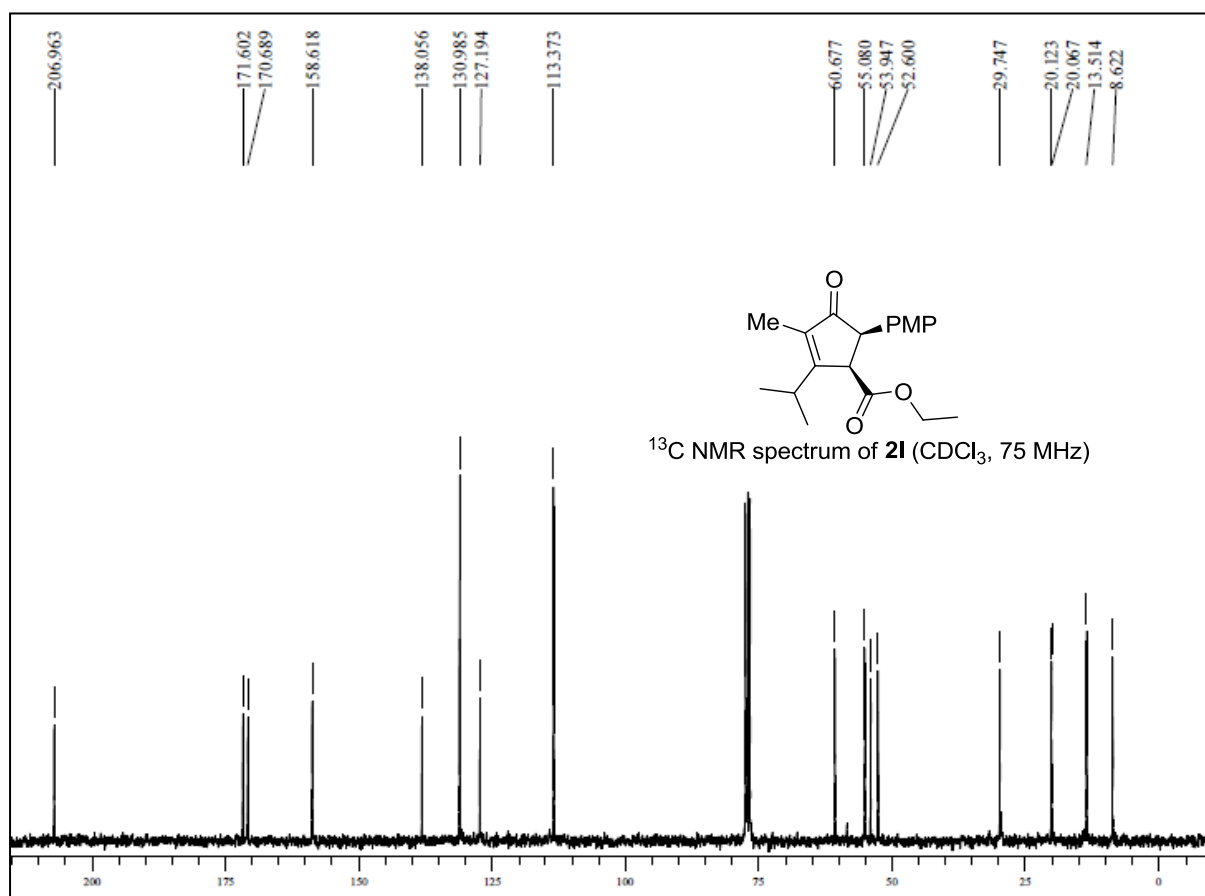
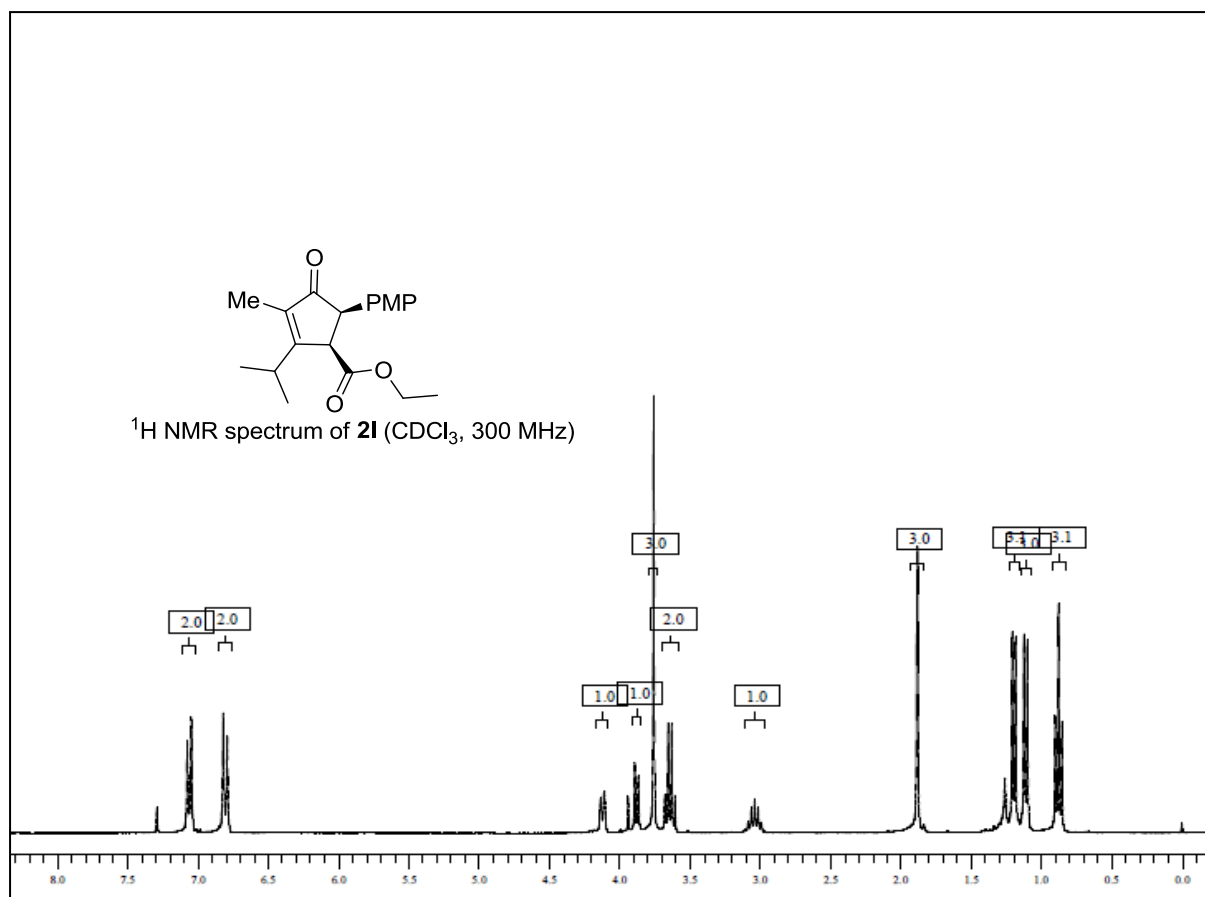
$^1\text{H}$  NMR spectrum of **2k** ( $\text{CDCl}_3$ , 500 MHz)

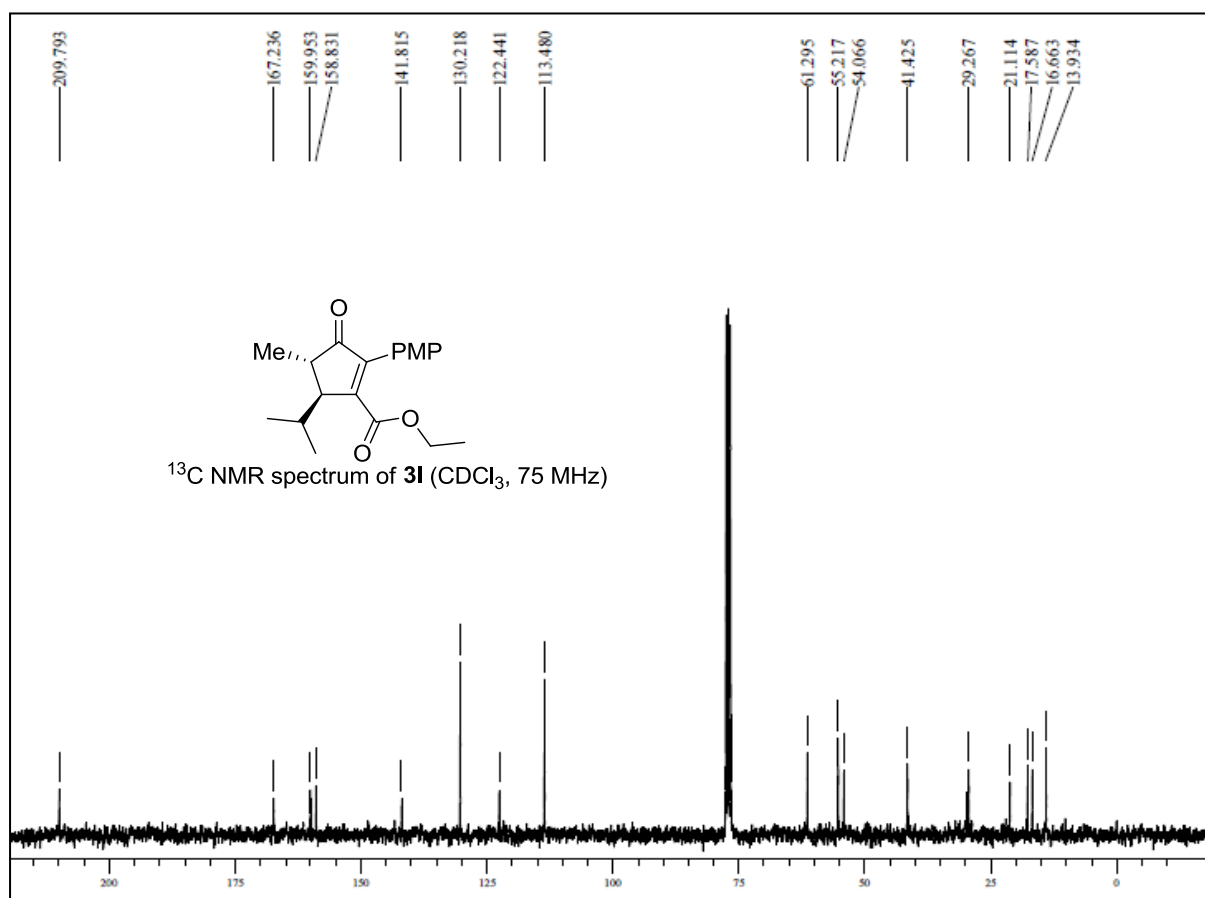
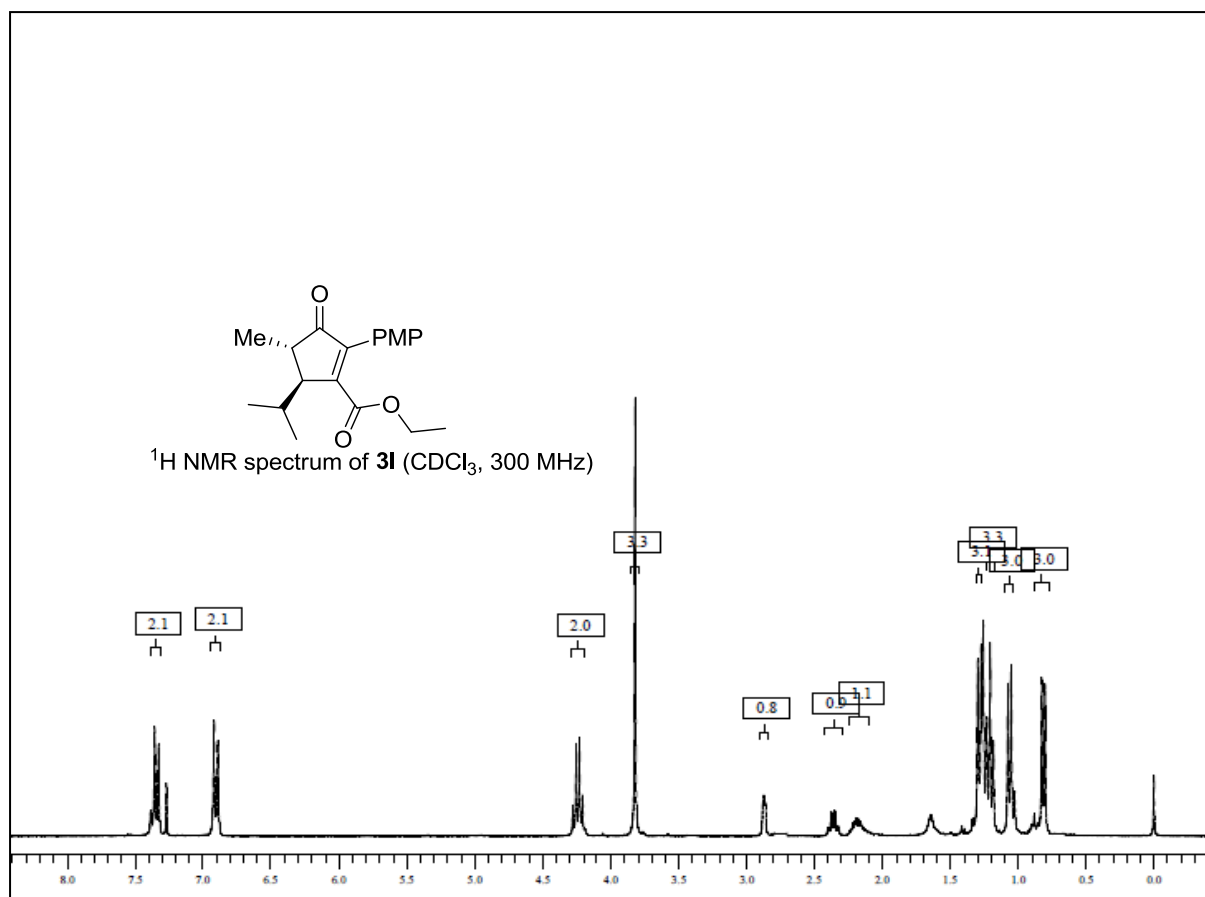


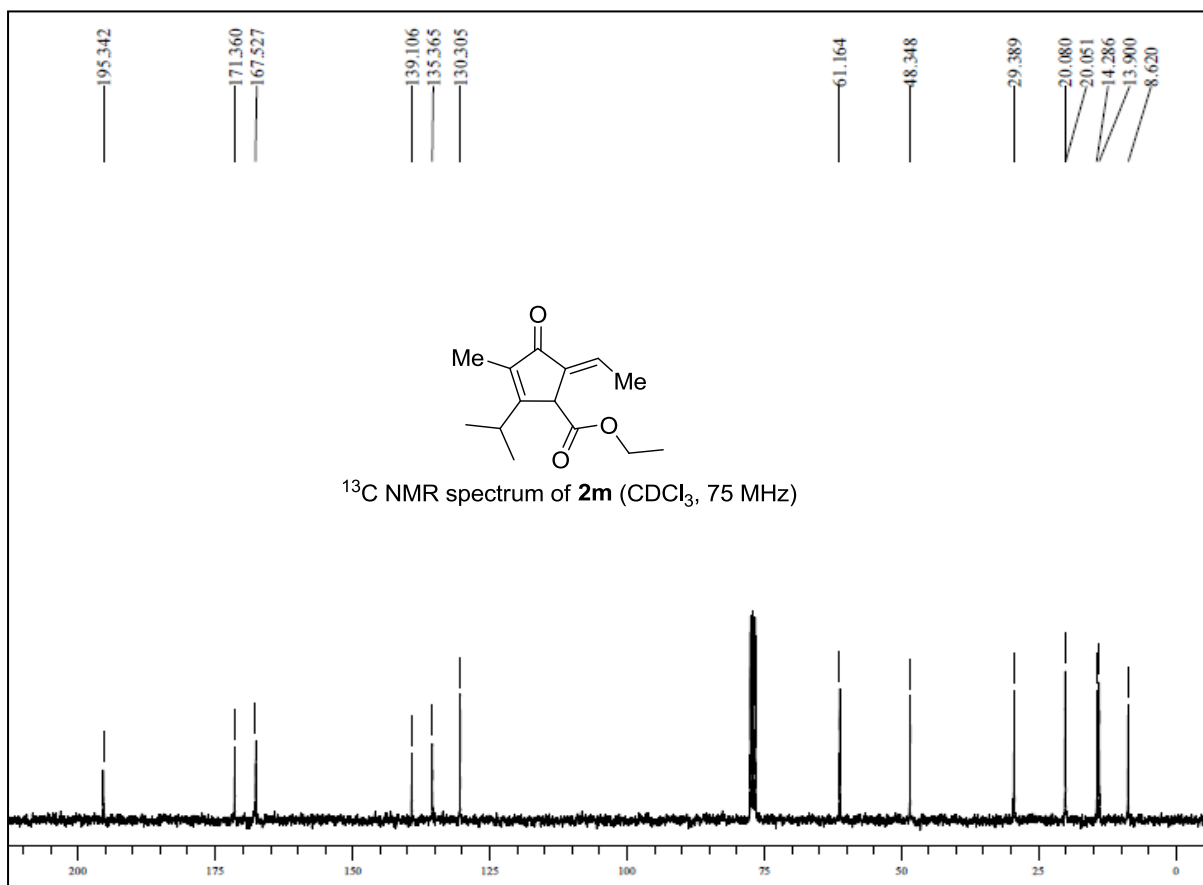
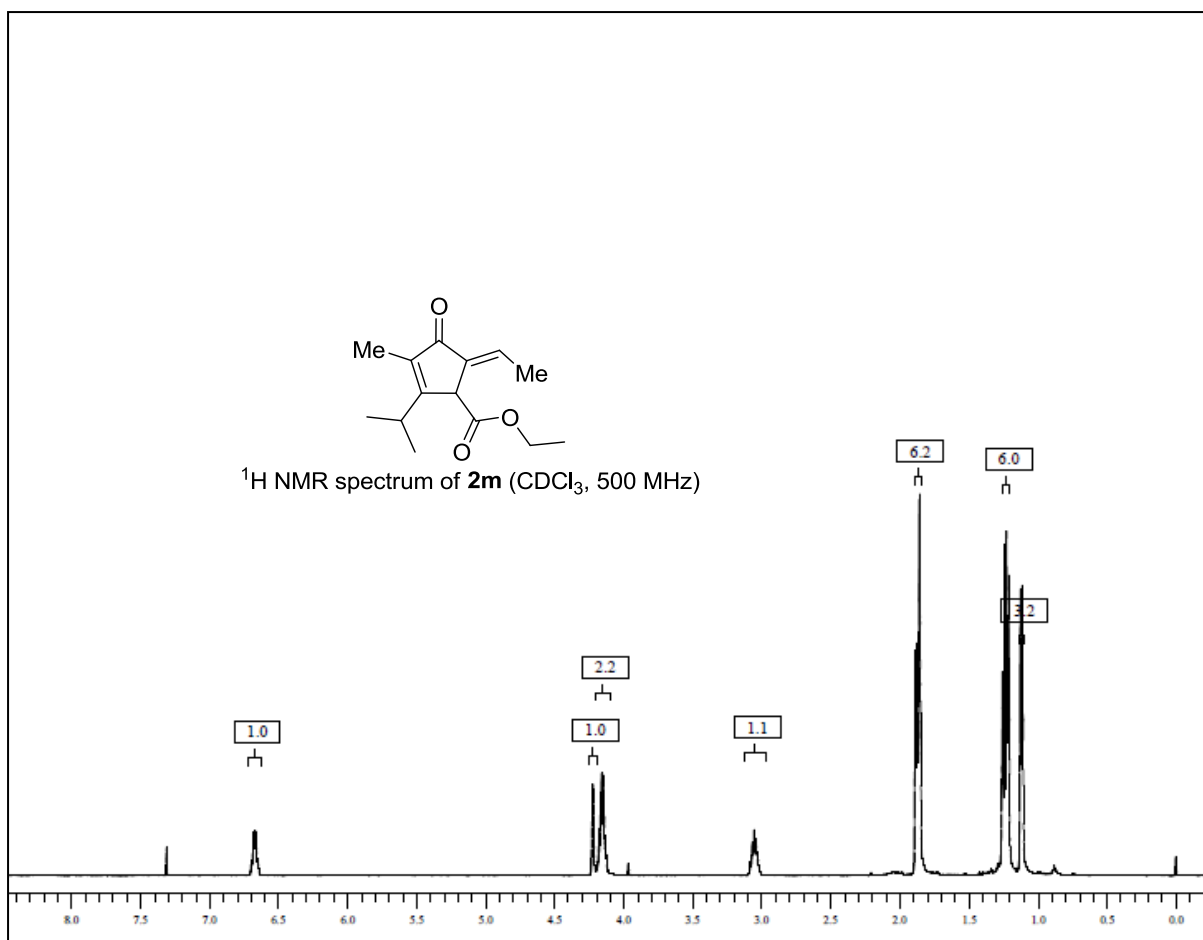
$^{13}\text{C}$  NMR spectrum of **2k** ( $\text{CDCl}_3$ , 125 MHz)

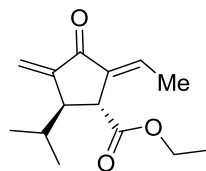




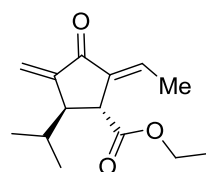
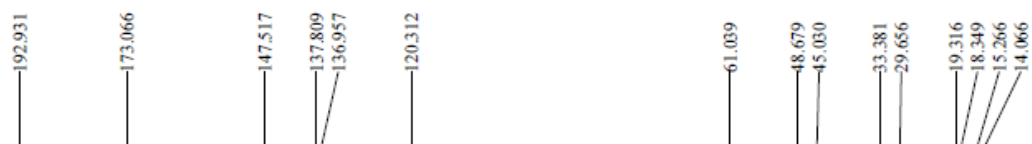
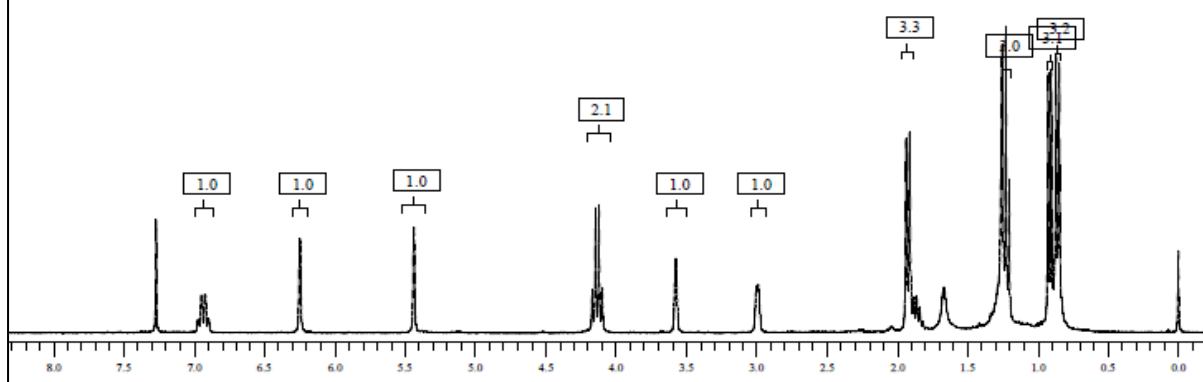




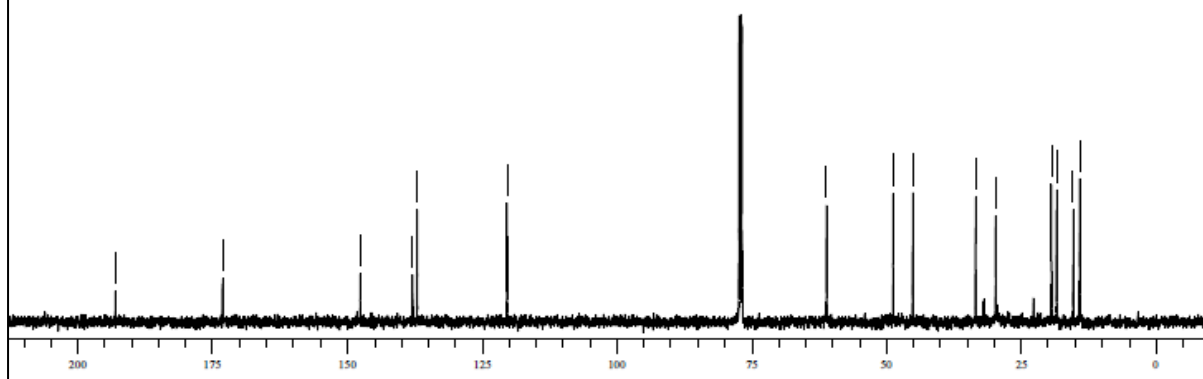


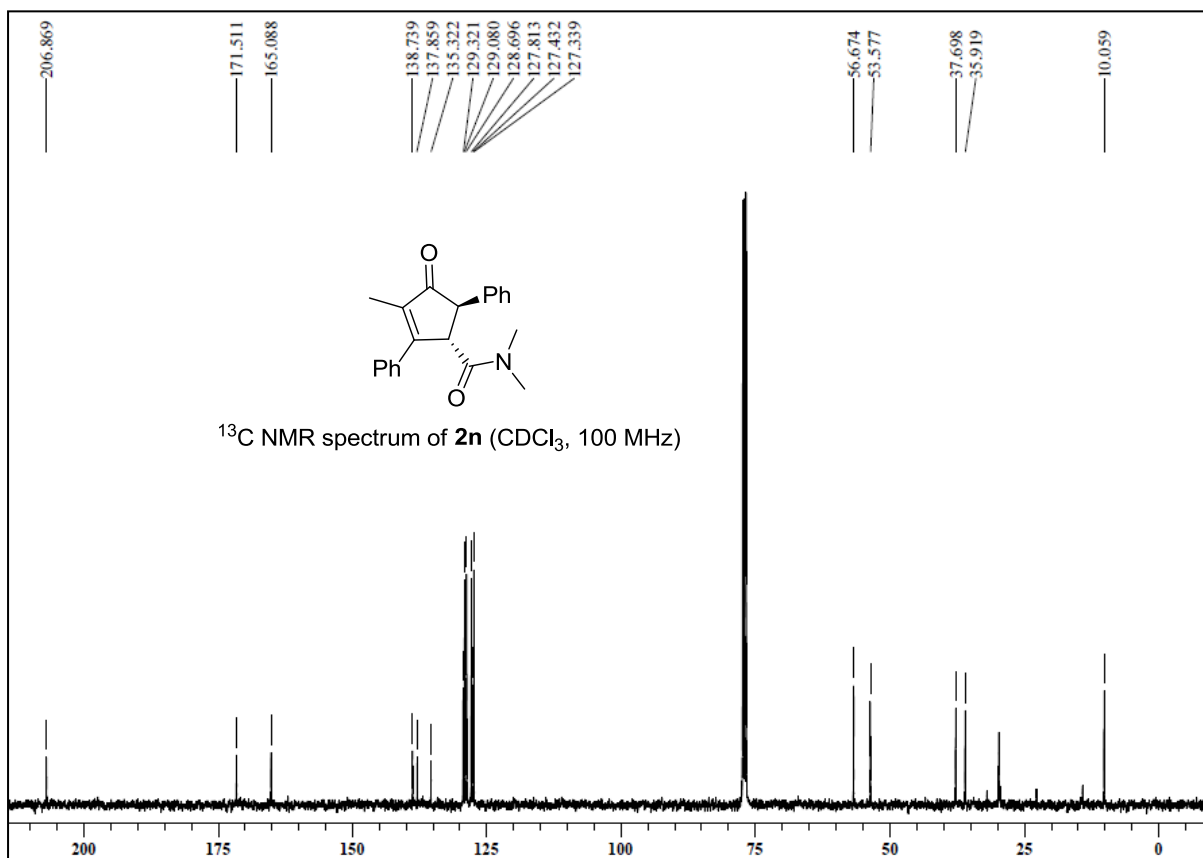
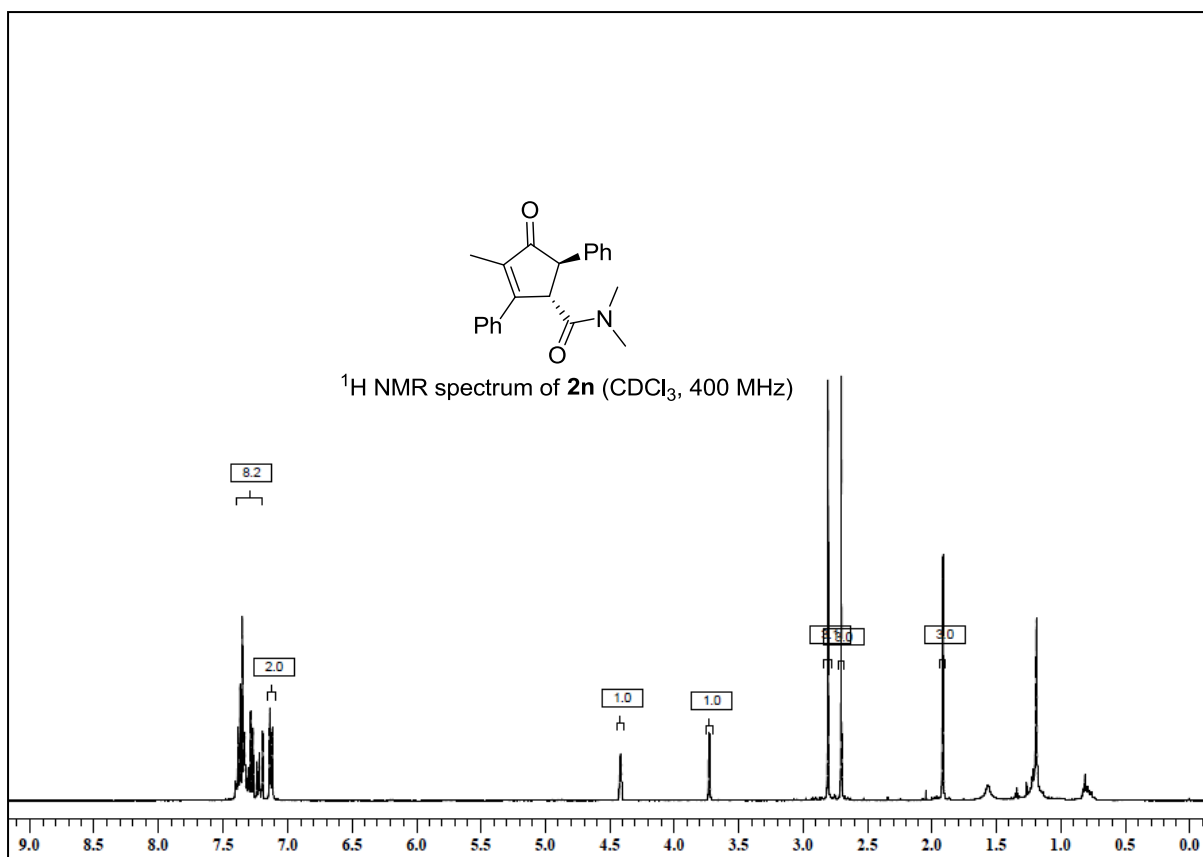


<sup>1</sup>H NMR spectrum of **2'm** (CDCl<sub>3</sub>, 300 MHz)

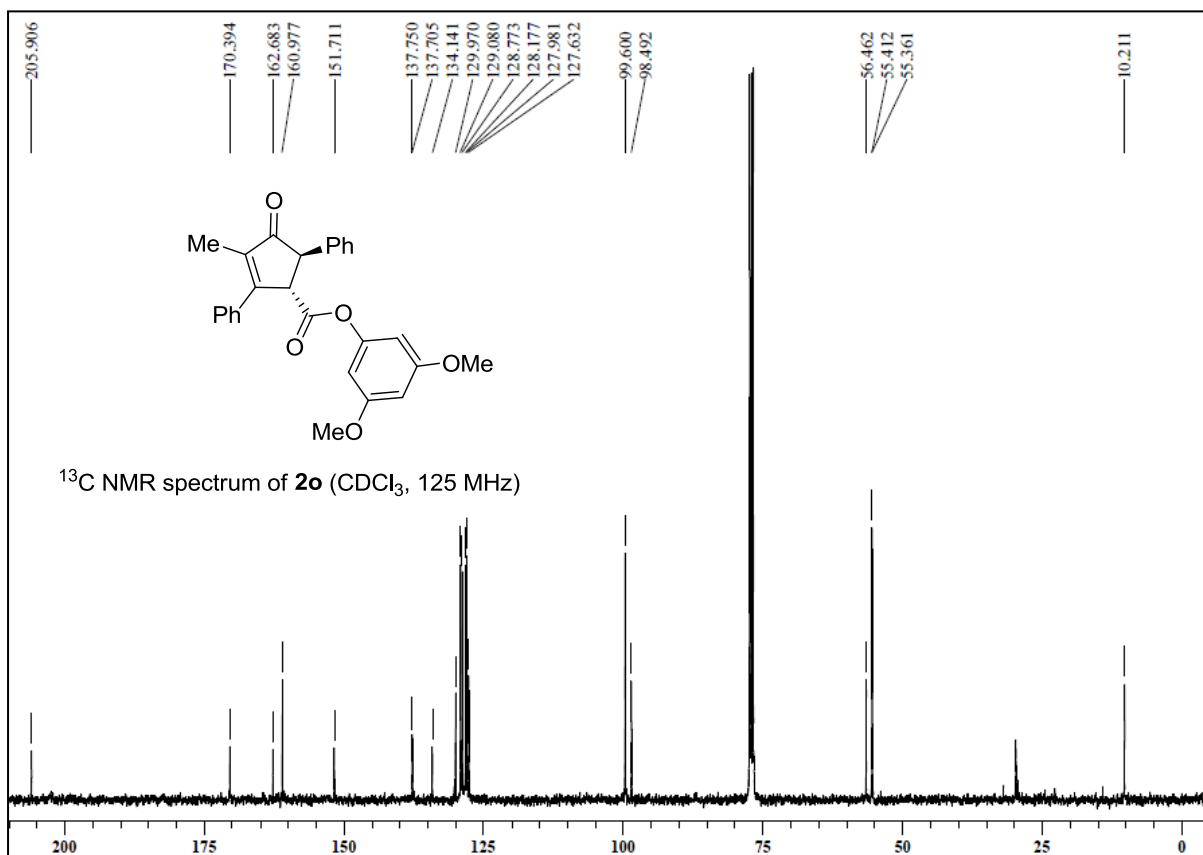
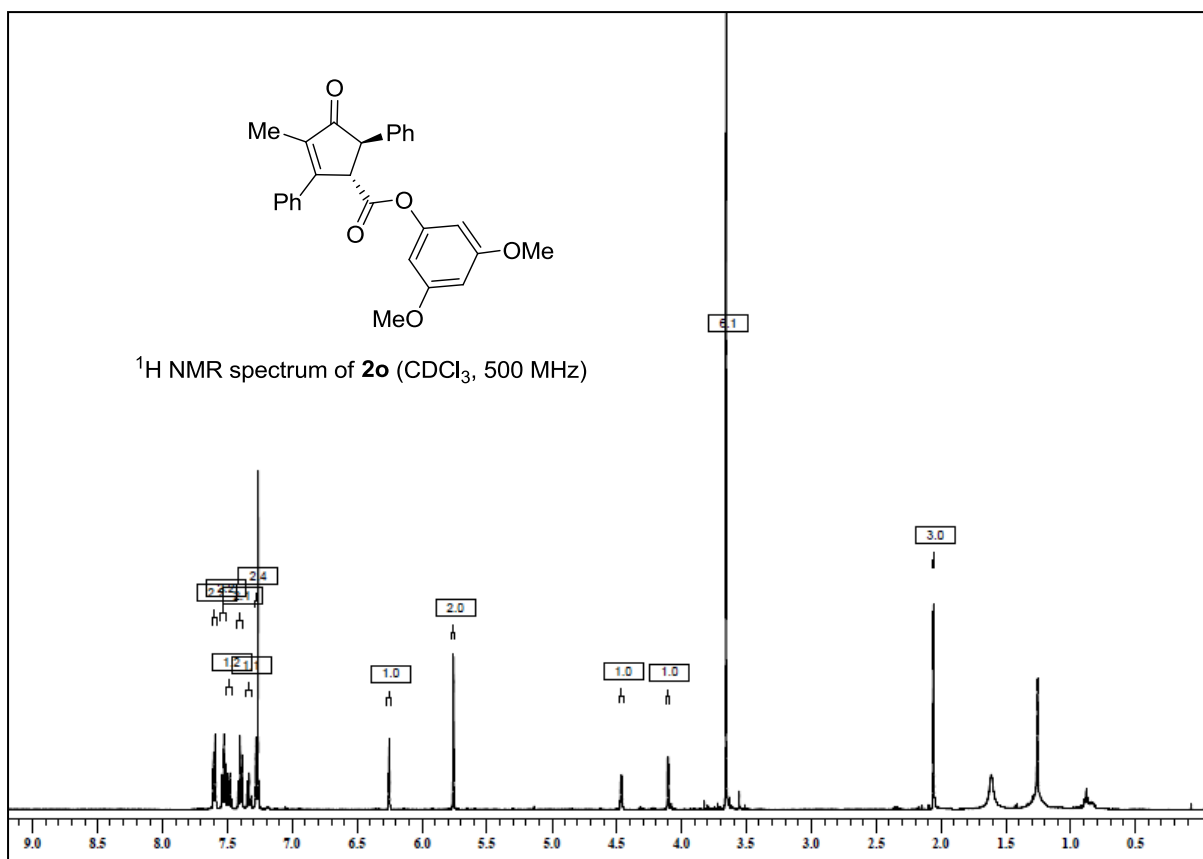


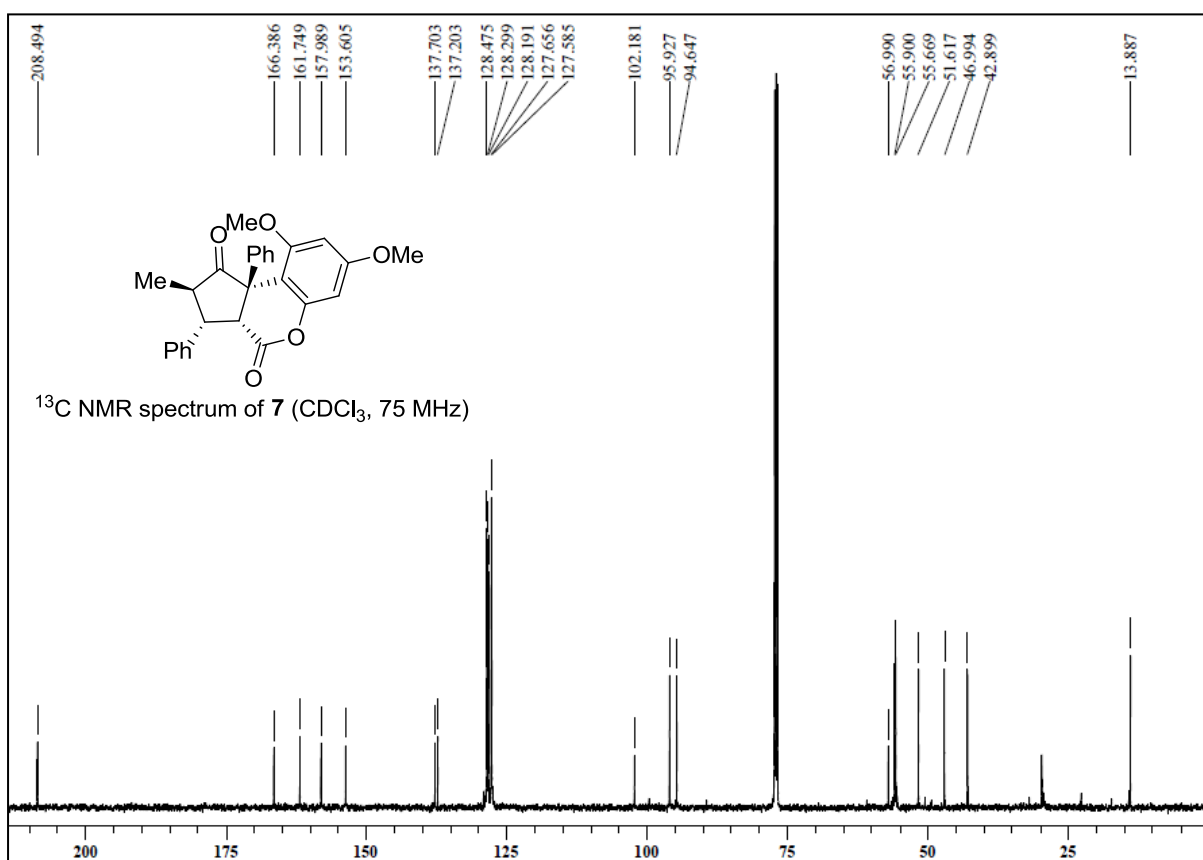
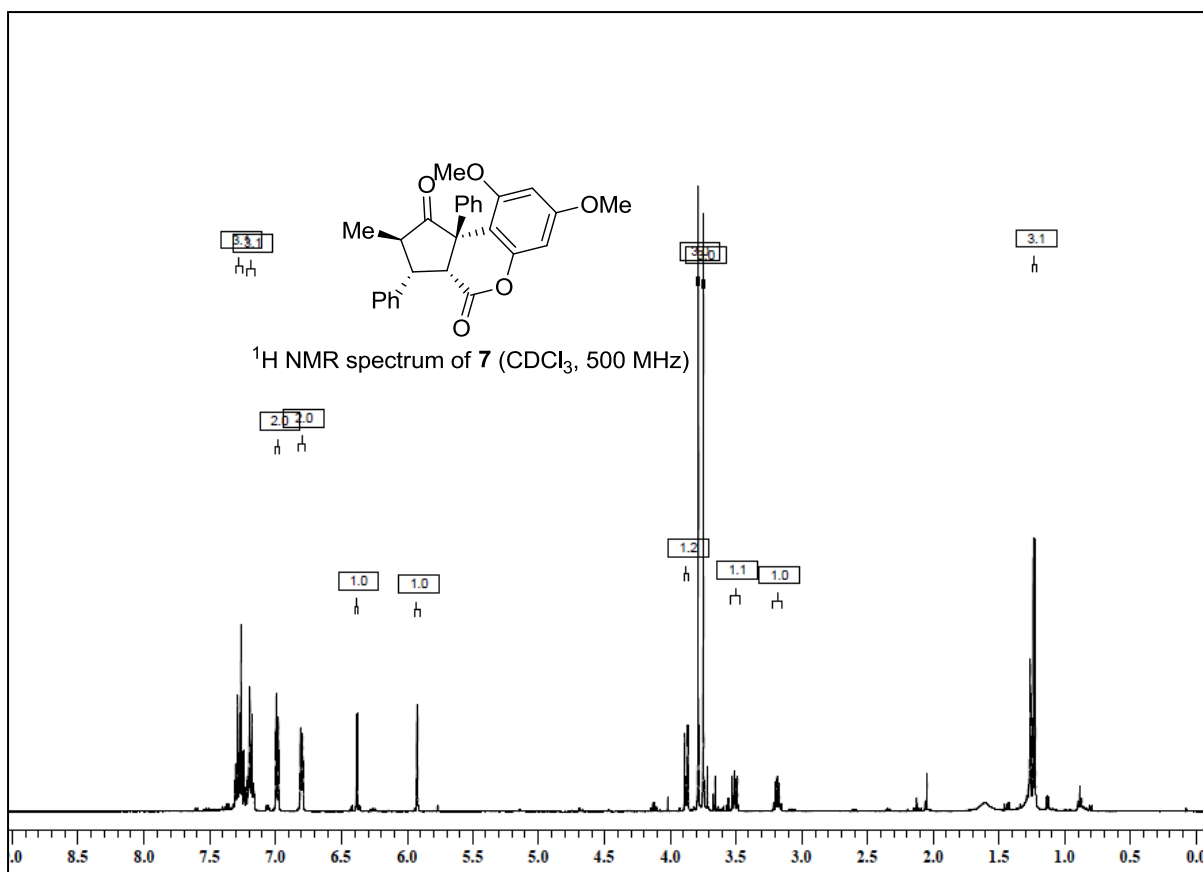
<sup>13</sup>C NMR spectrum of **2'm** (CDCl<sub>3</sub>, 125 MHz)

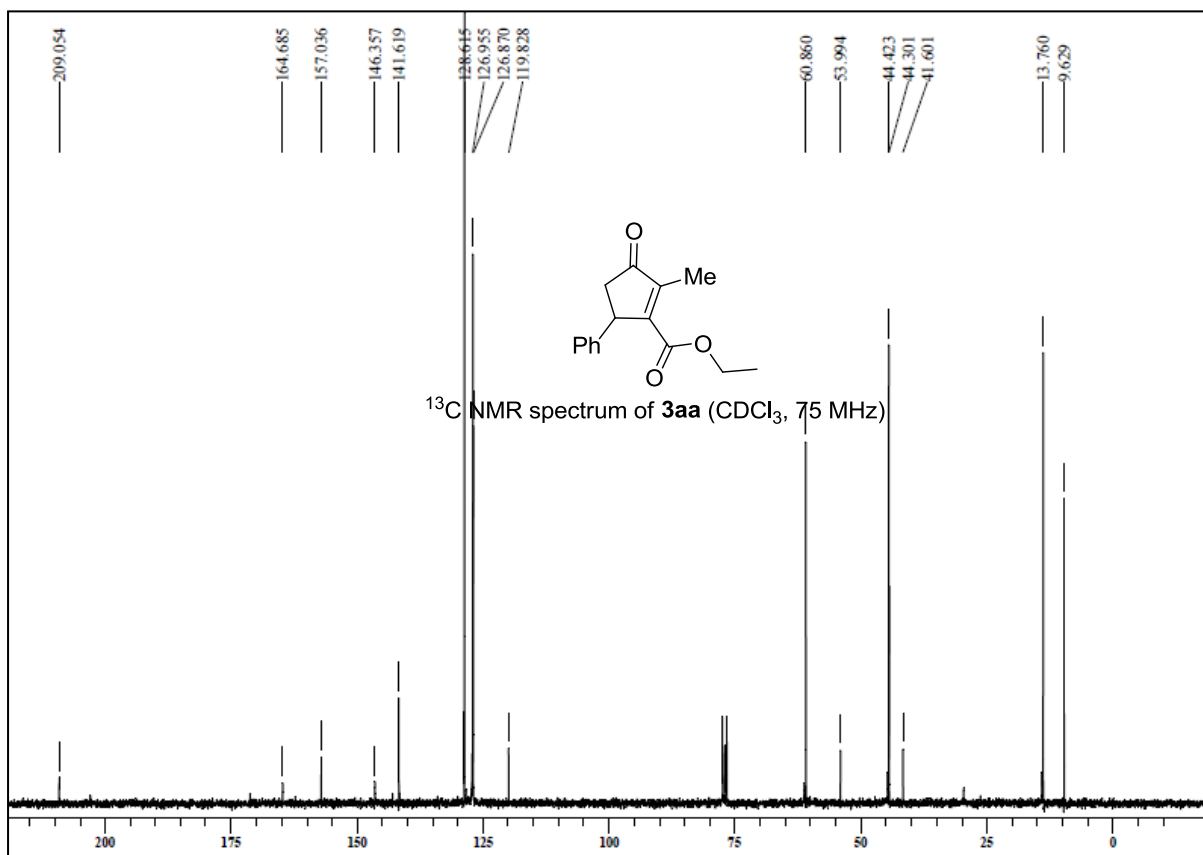
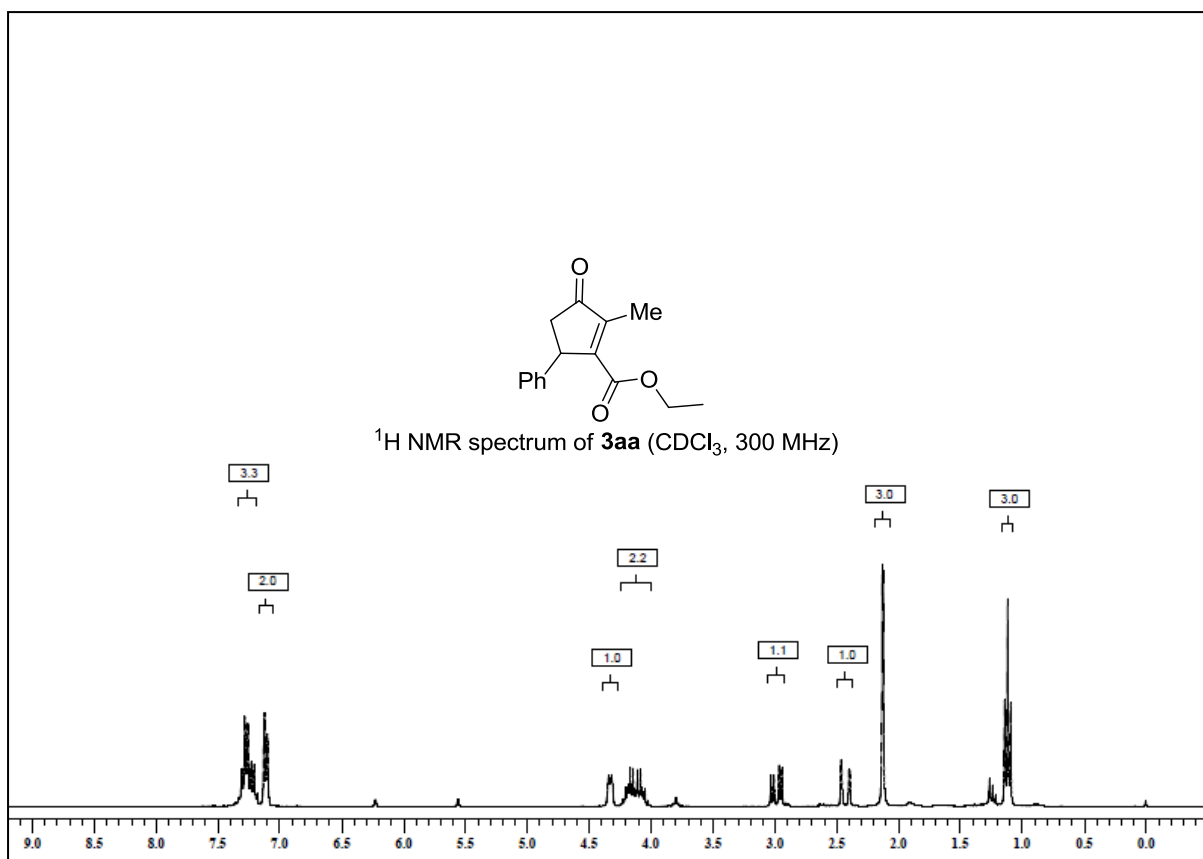


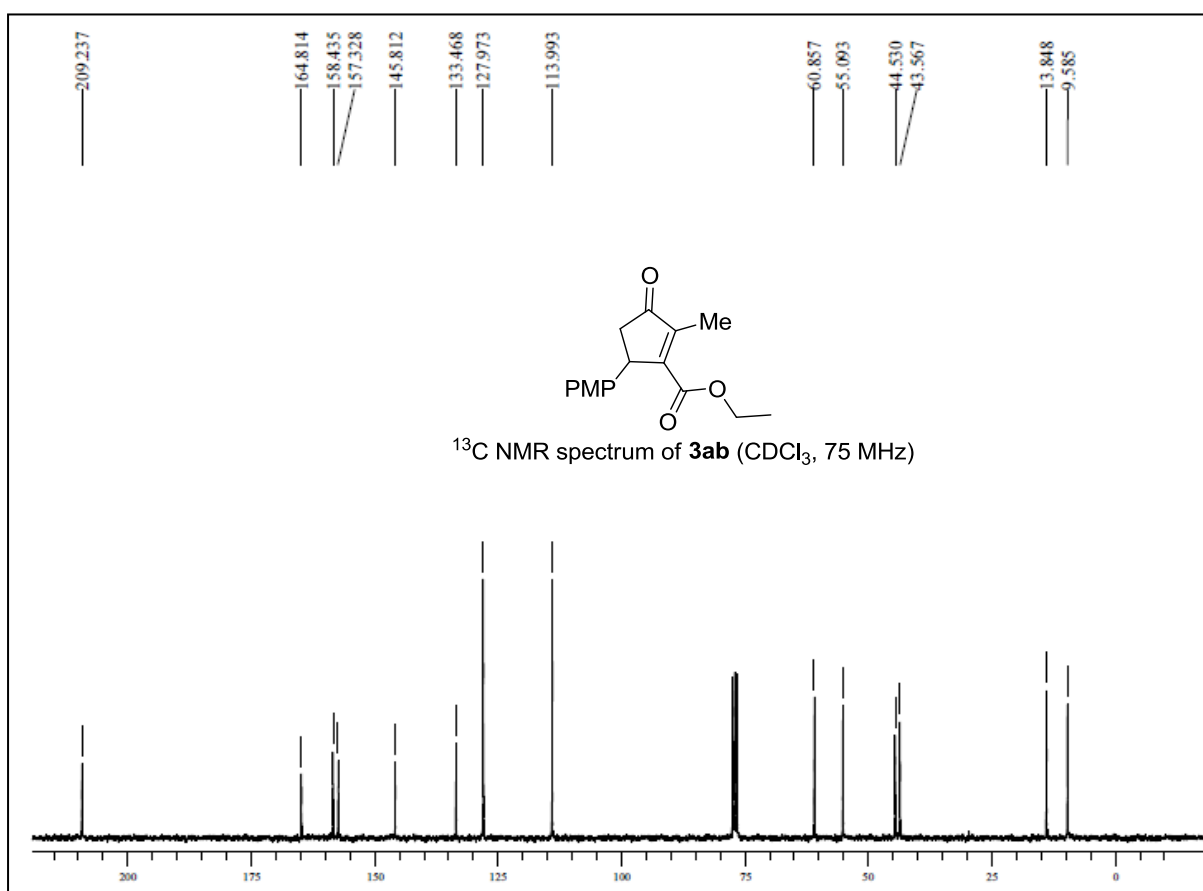
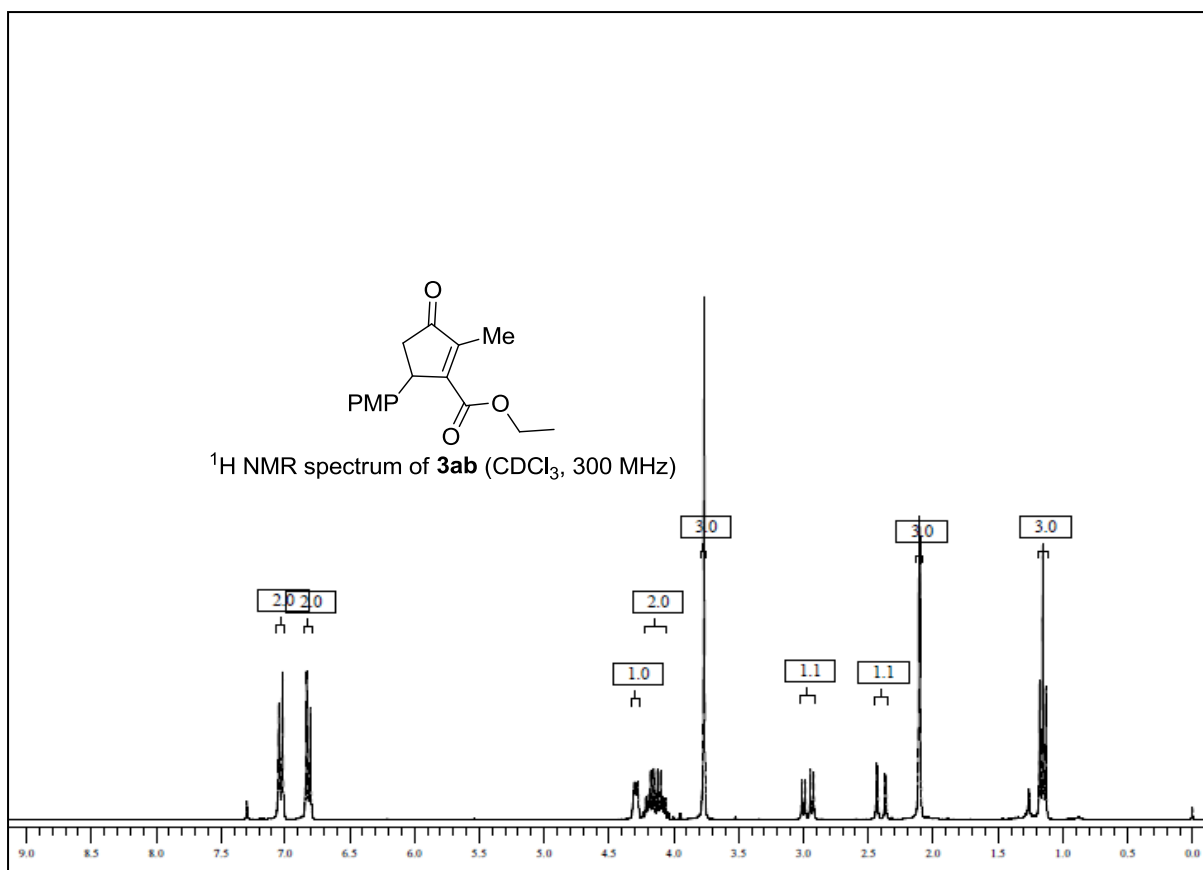


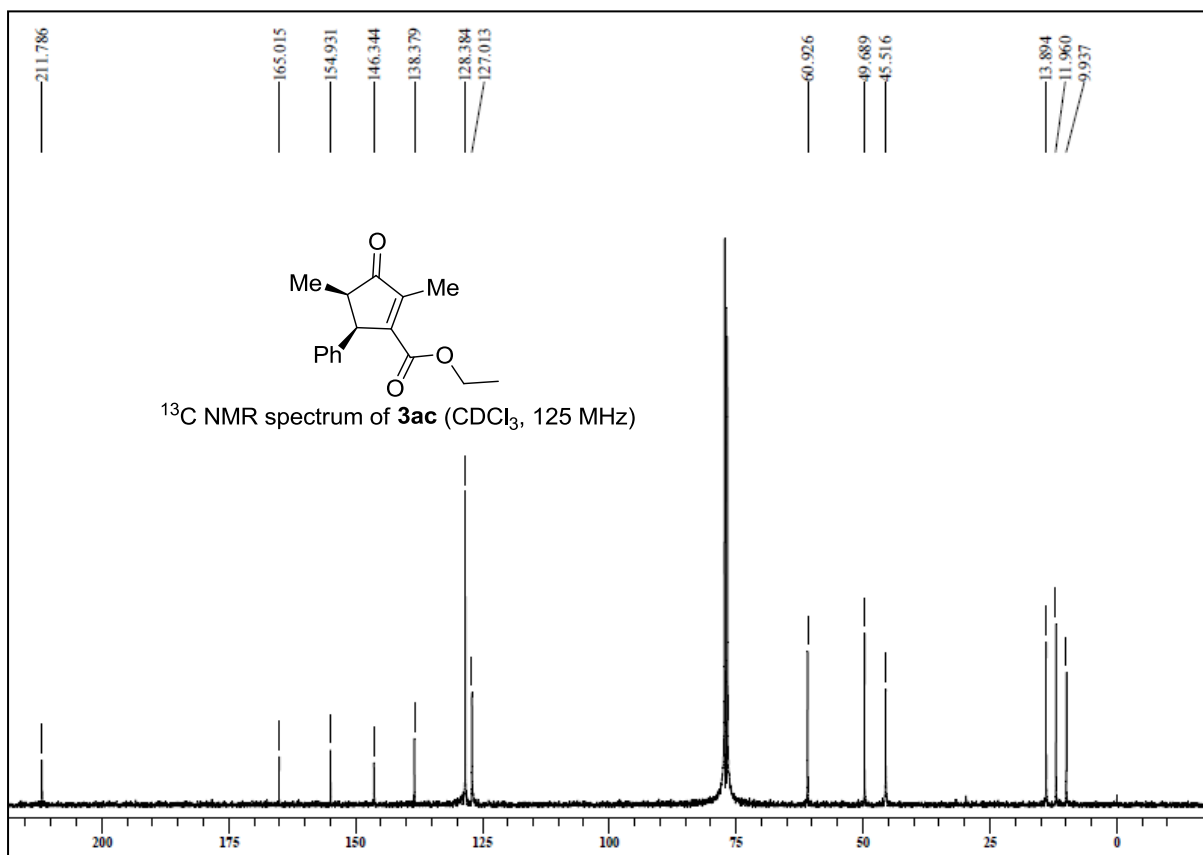
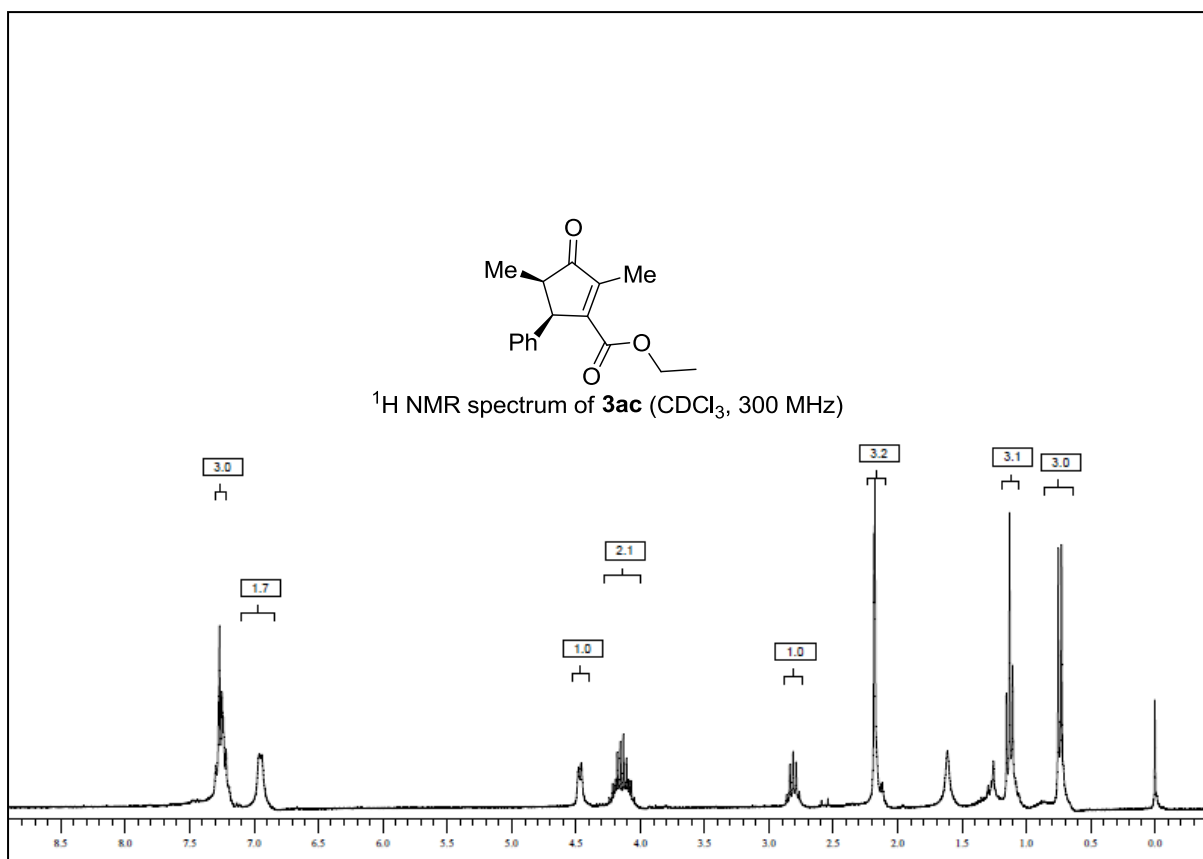


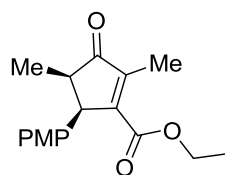




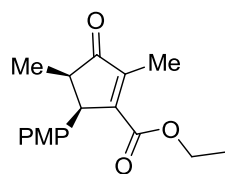
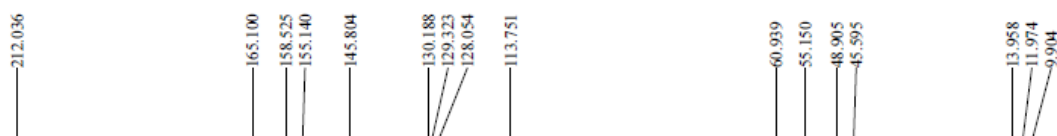
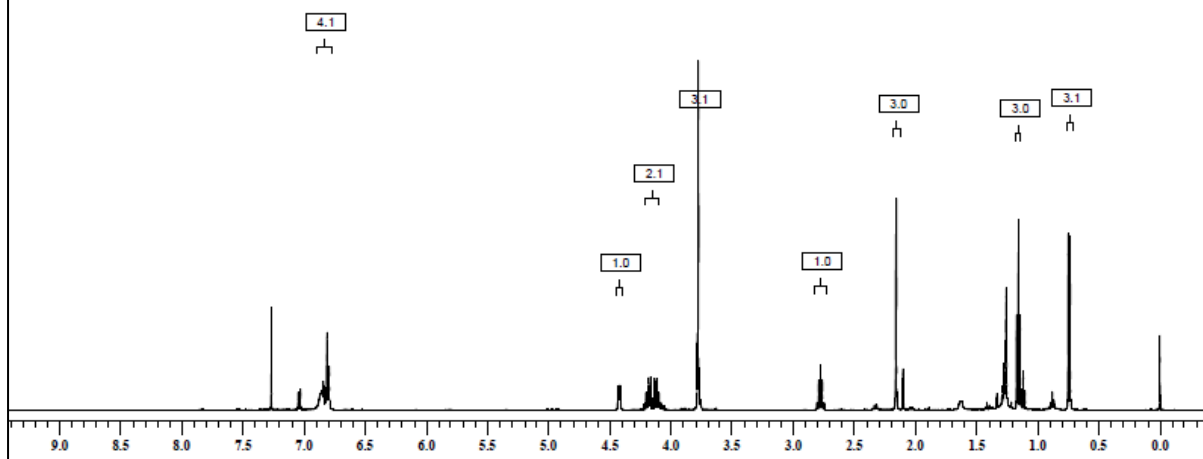




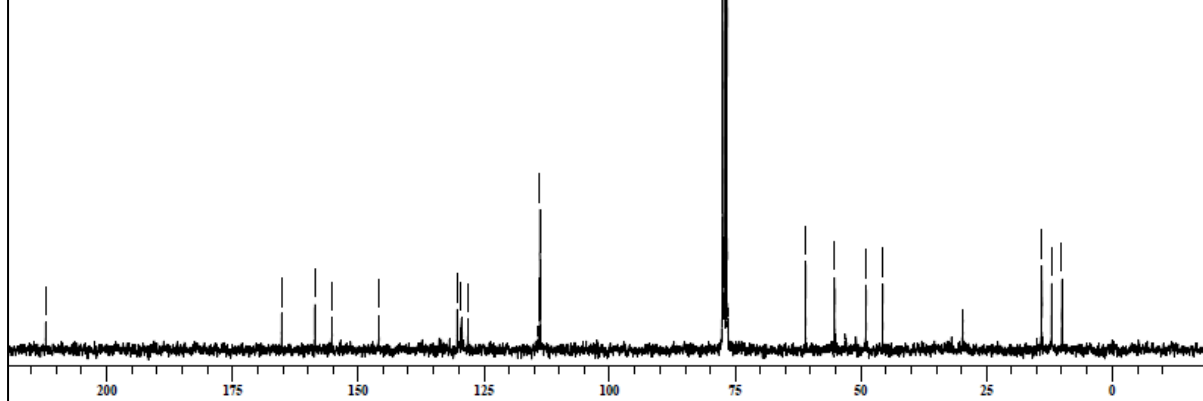


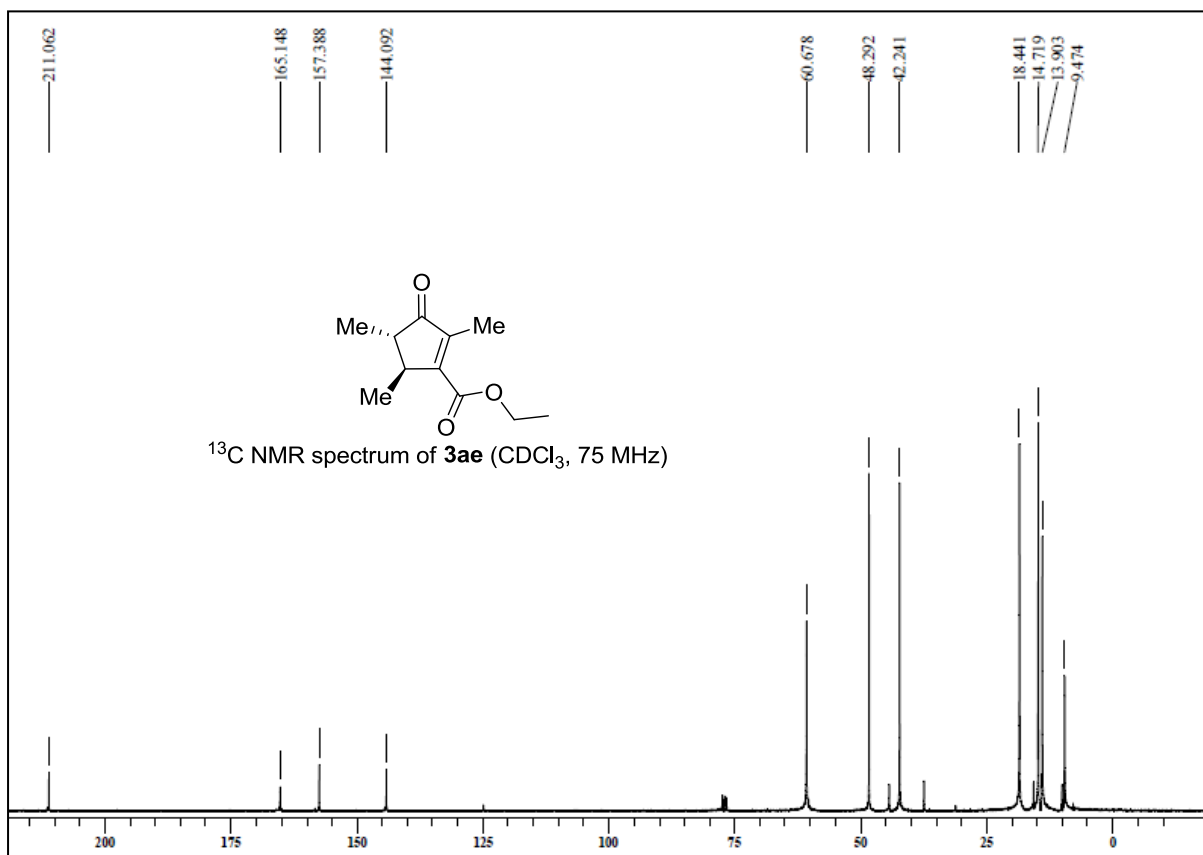
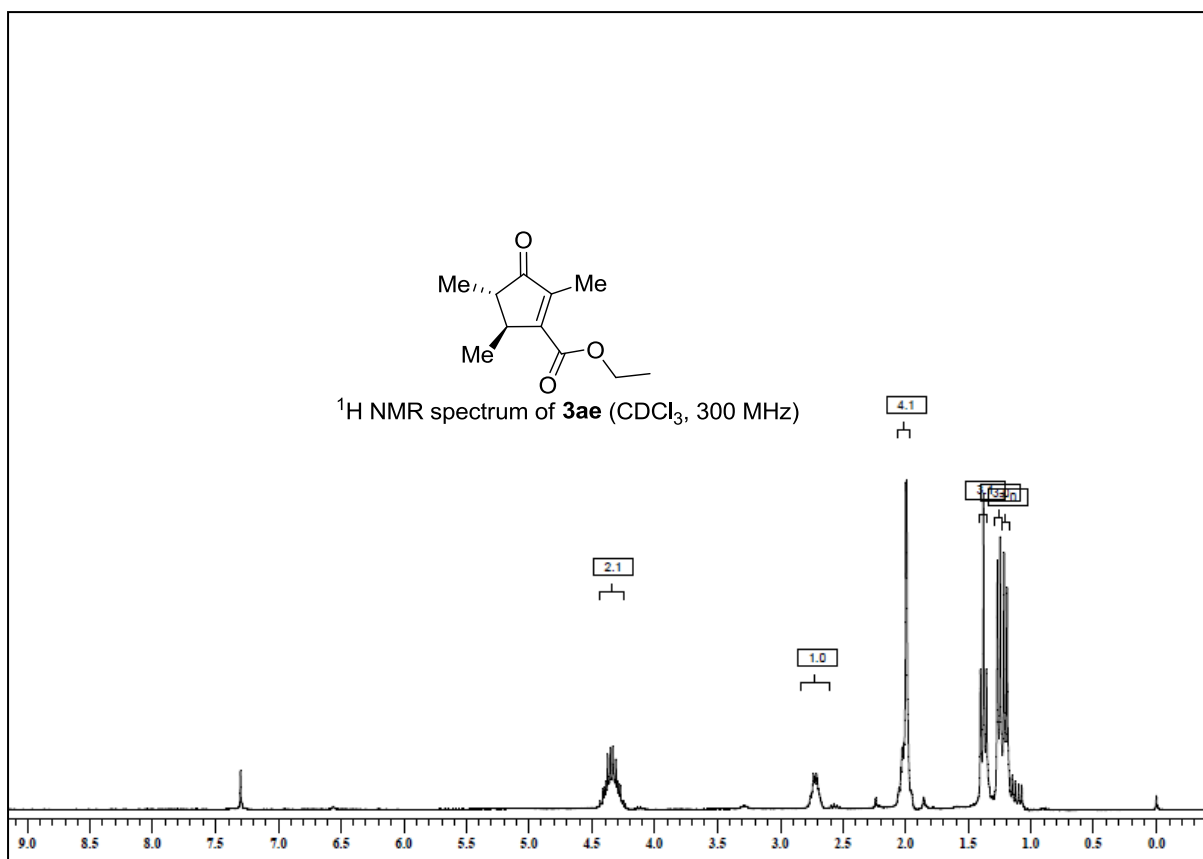


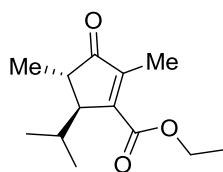
$^1\text{H}$  NMR spectrum of **3ad** ( $\text{CDCl}_3$ , 500 MHz)



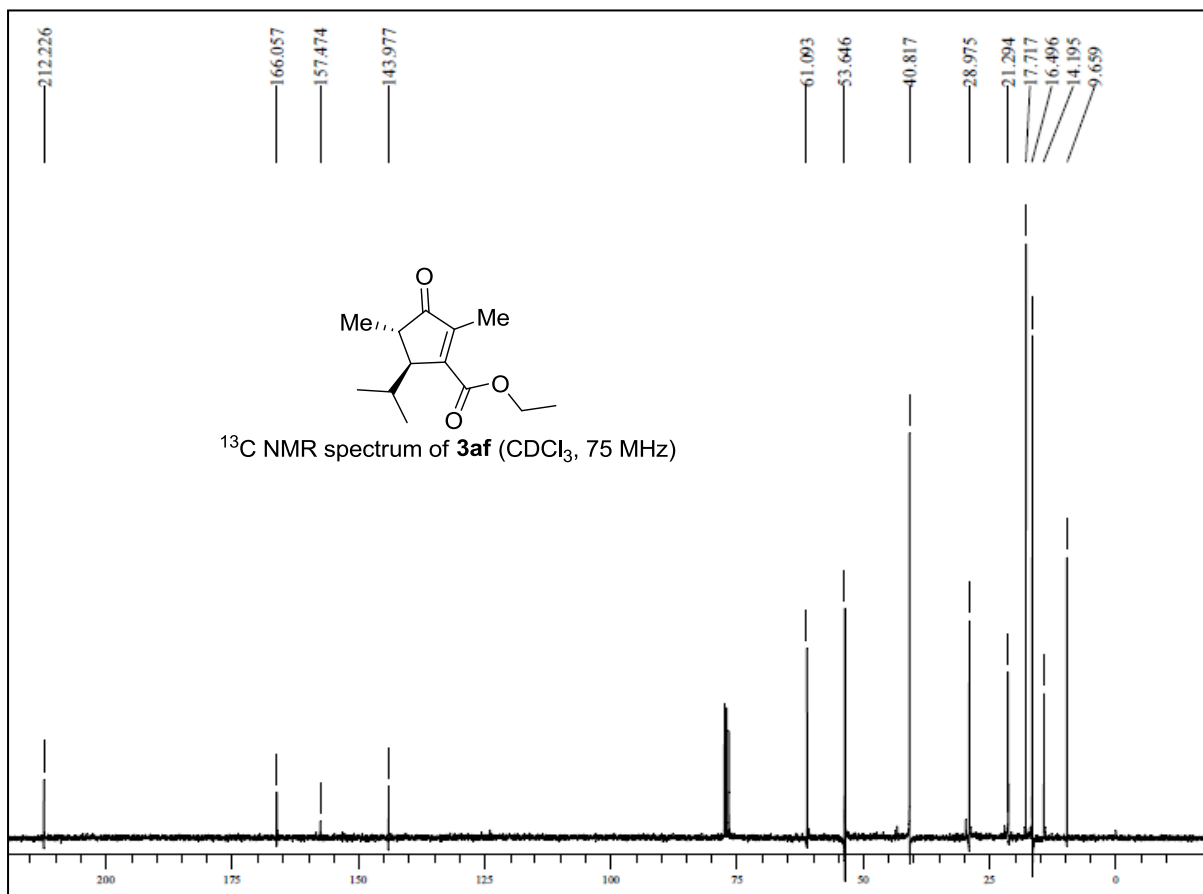
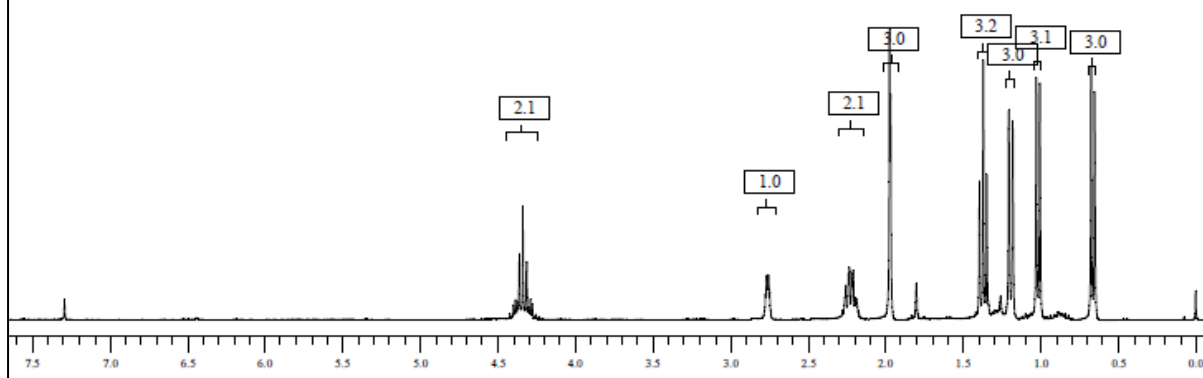
$^{13}\text{C}$  NMR spectrum of **3ad** ( $\text{CDCl}_3$ , 75 MHz)



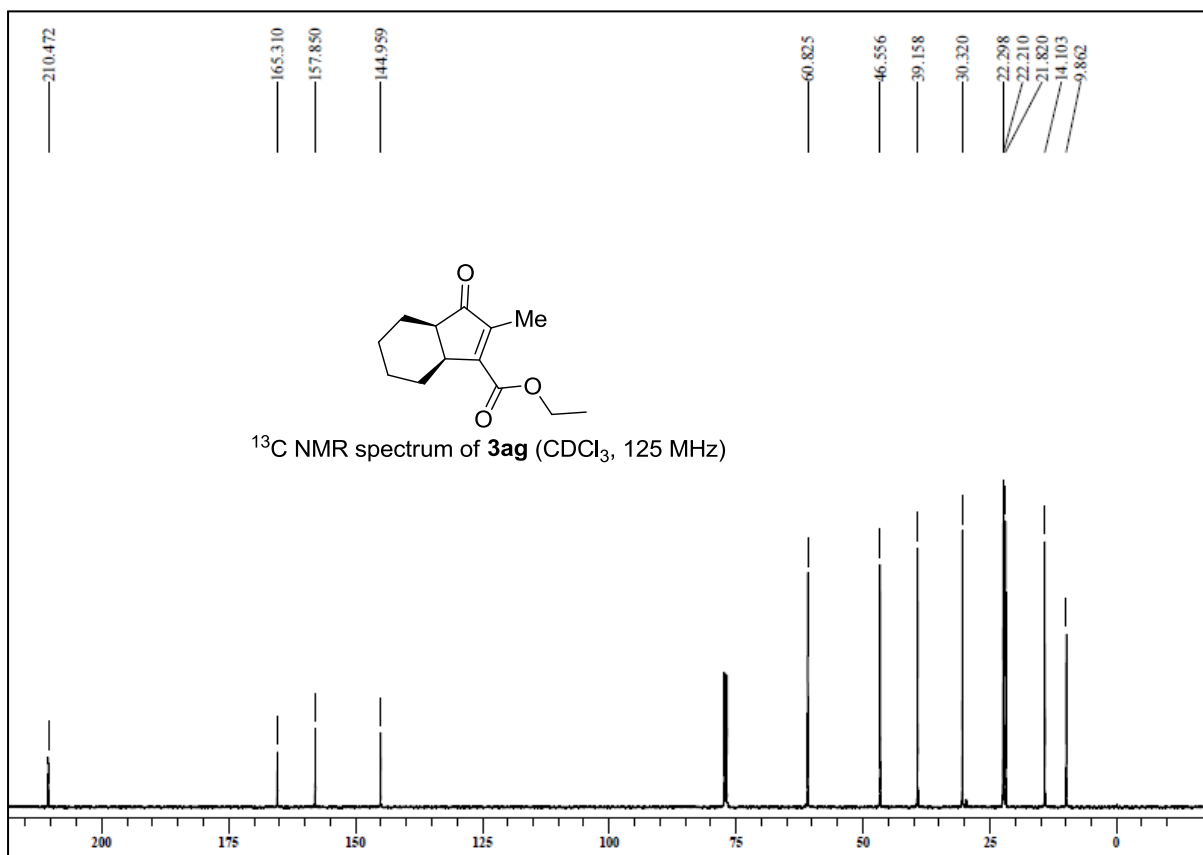
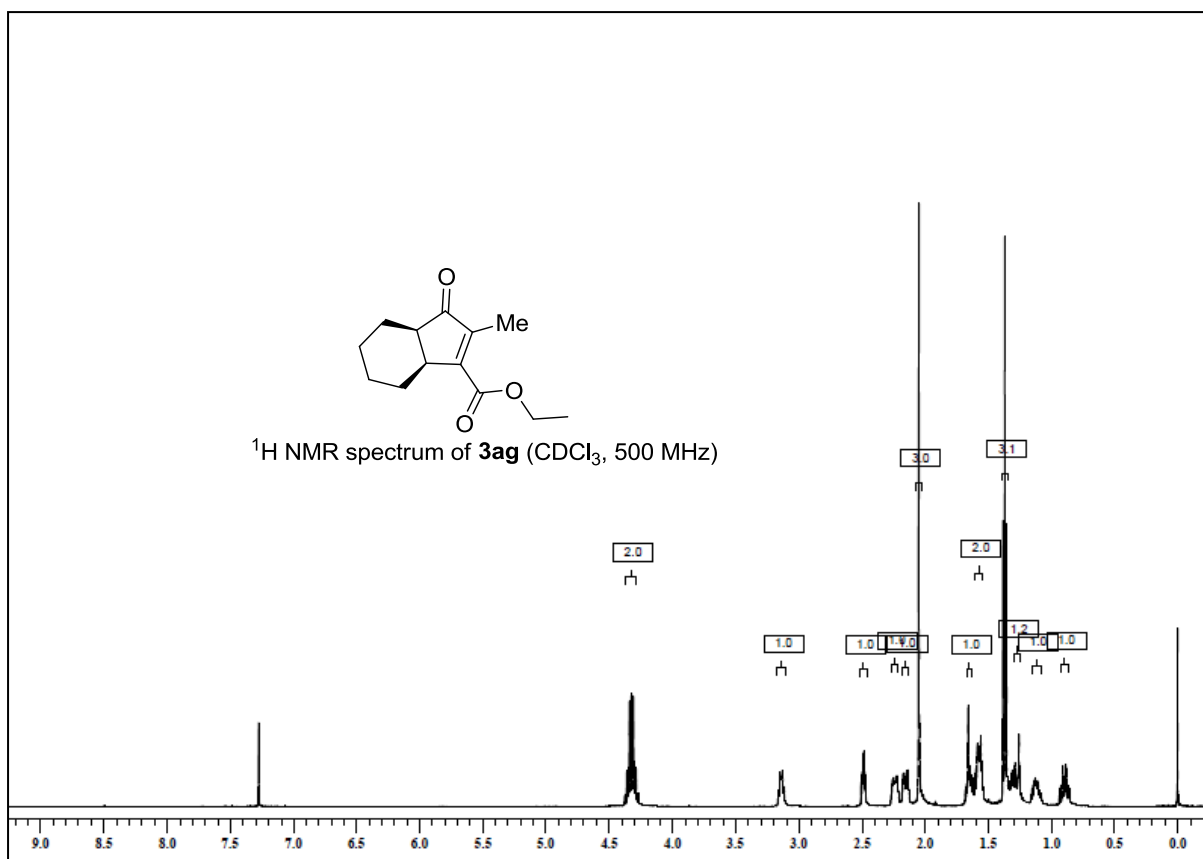


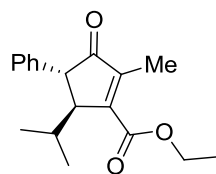


$^1\text{H}$  NMR spectrum of **3af** ( $\text{CDCl}_3$ , 300 MHz)

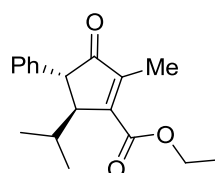
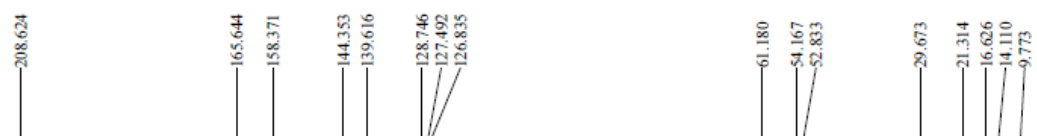
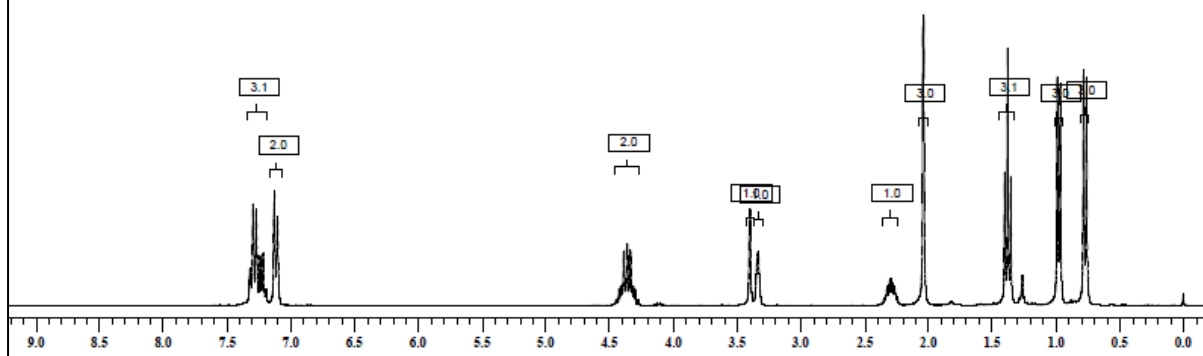








$^1\text{H}$  NMR spectrum of **3ah** ( $\text{CDCl}_3$ , 300 MHz)



$^{13}\text{C}$  NMR spectrum of **3ah** ( $\text{CDCl}_3$ , 75 MHz)

