

Synthesis of 2,3-Dihydro-4-pyridones and 4-Pyridones by the Cyclization Reaction of Ester-Tethered Enaminones

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^a University of Belgrade, Institute of Chemistry, Technology and Metallurgy - Center for Chemistry, Njegoševa 12, P.O.Box 473, 11000 Belgrade, Serbia

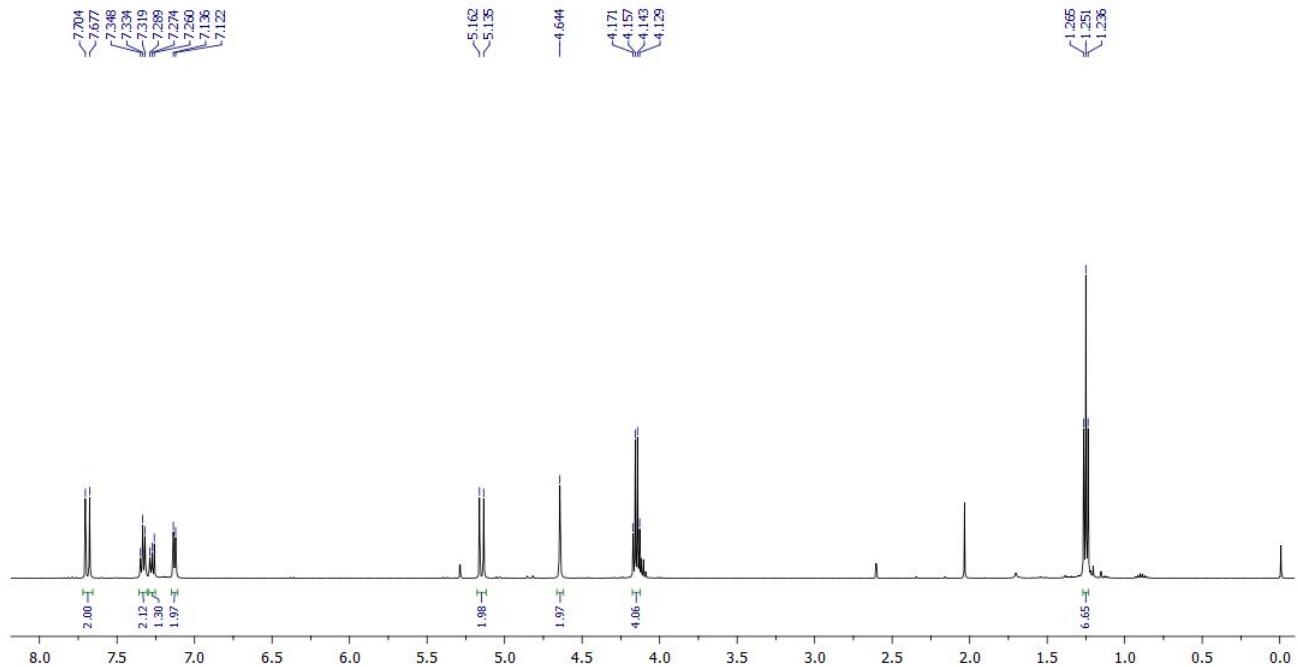
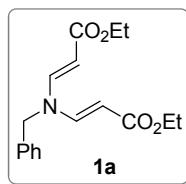
^b University of Belgrade - Faculty of Chemistry, Studentski trg 12-16, P.O.Box 158, 11000 Belgrade, Serbia

Supporting Information

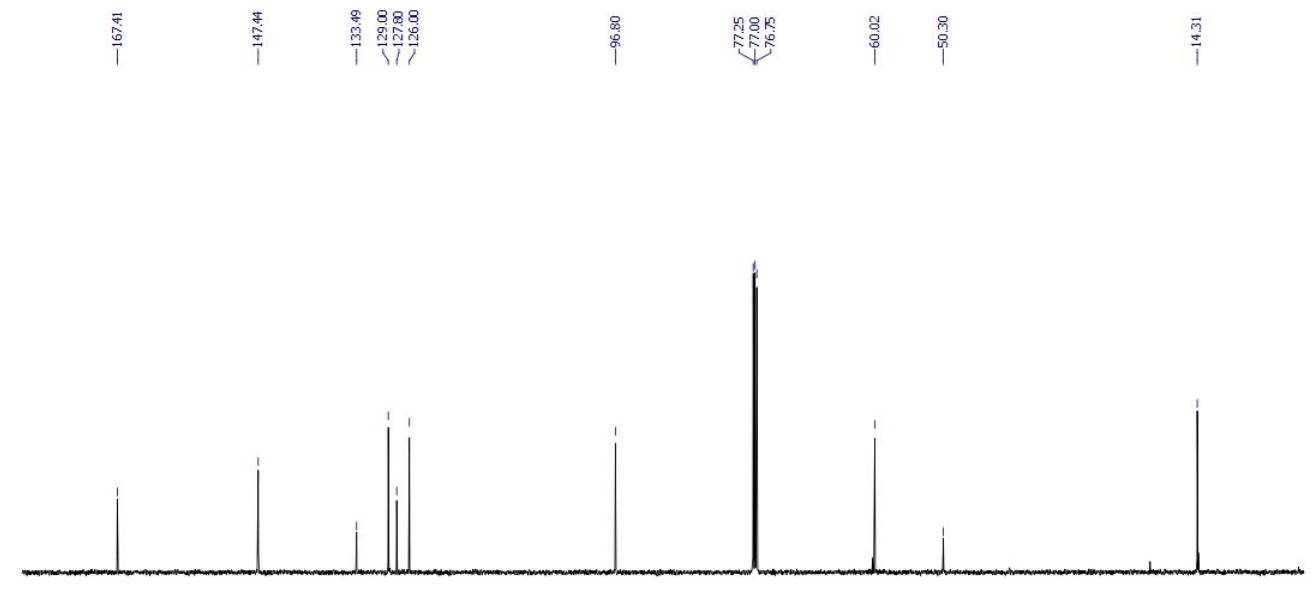
Copies of ¹H NMR and ¹³C NMR Spectra of Synthesized Compounds

Dialkenyl Amines 1	S2
Compounds 2	S9
Compounds 6	S30
2,3-Dihydro-4-pyridones 9	S33
4-Pyridones 10	S51

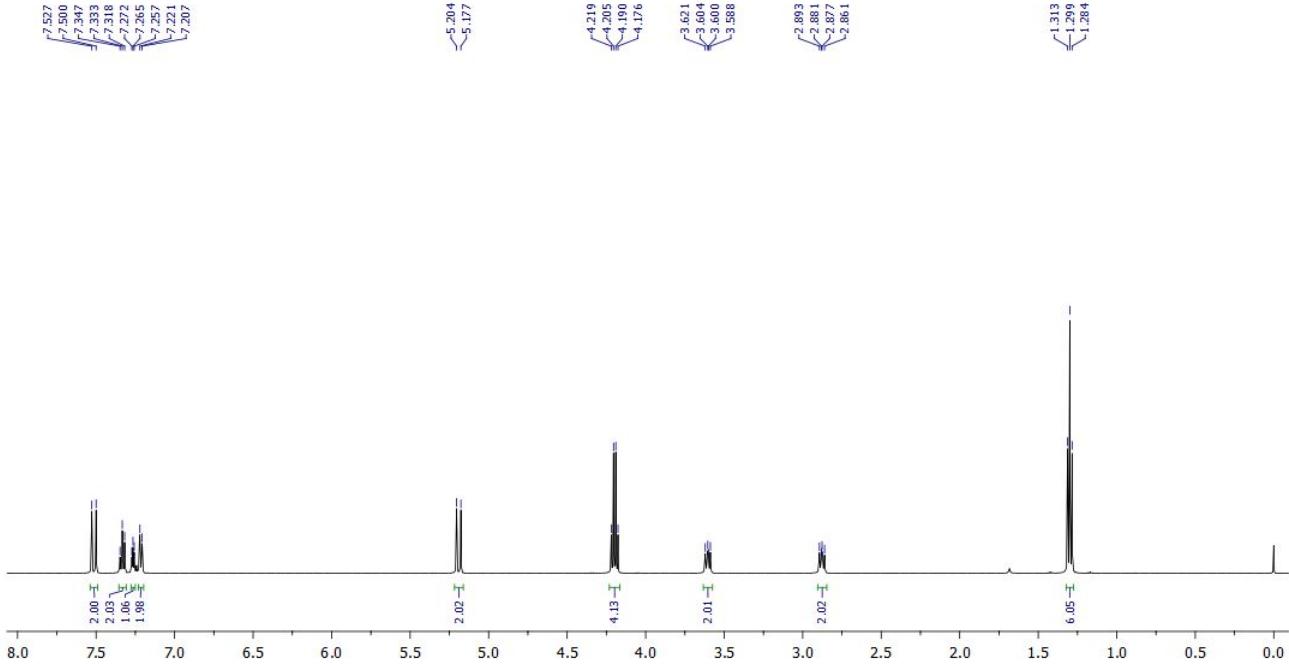
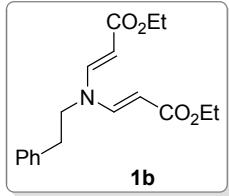
Dialkenyl Amines 1



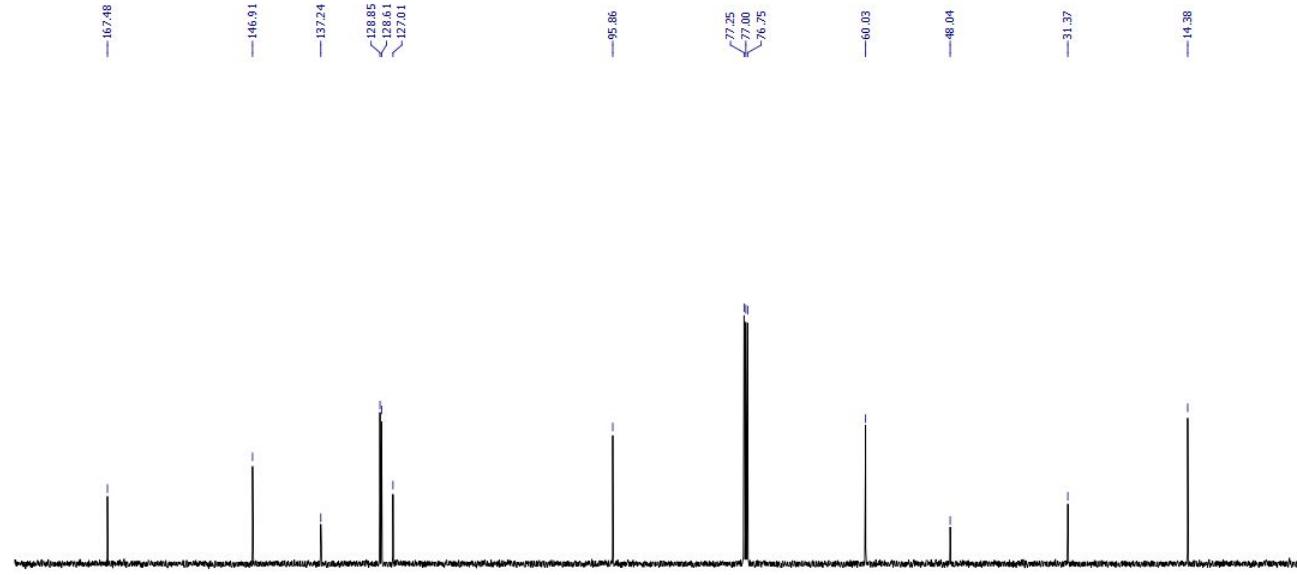
¹H NMR (500.3 MHz, CDCl_3)



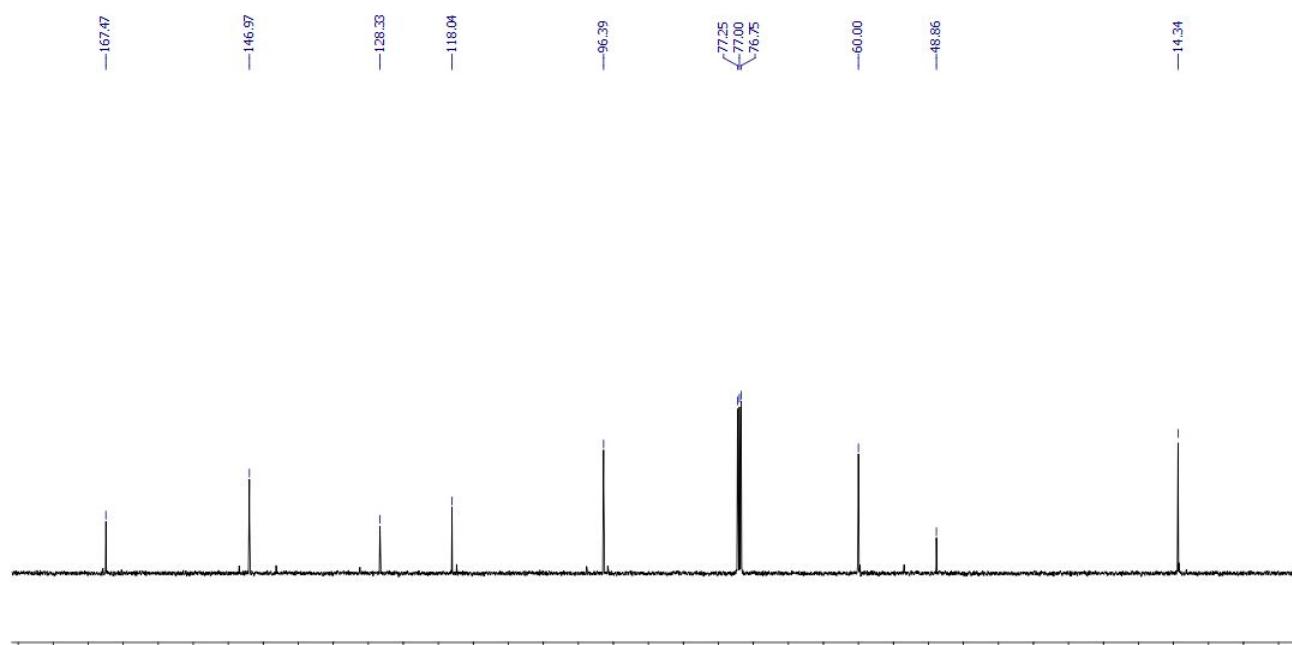
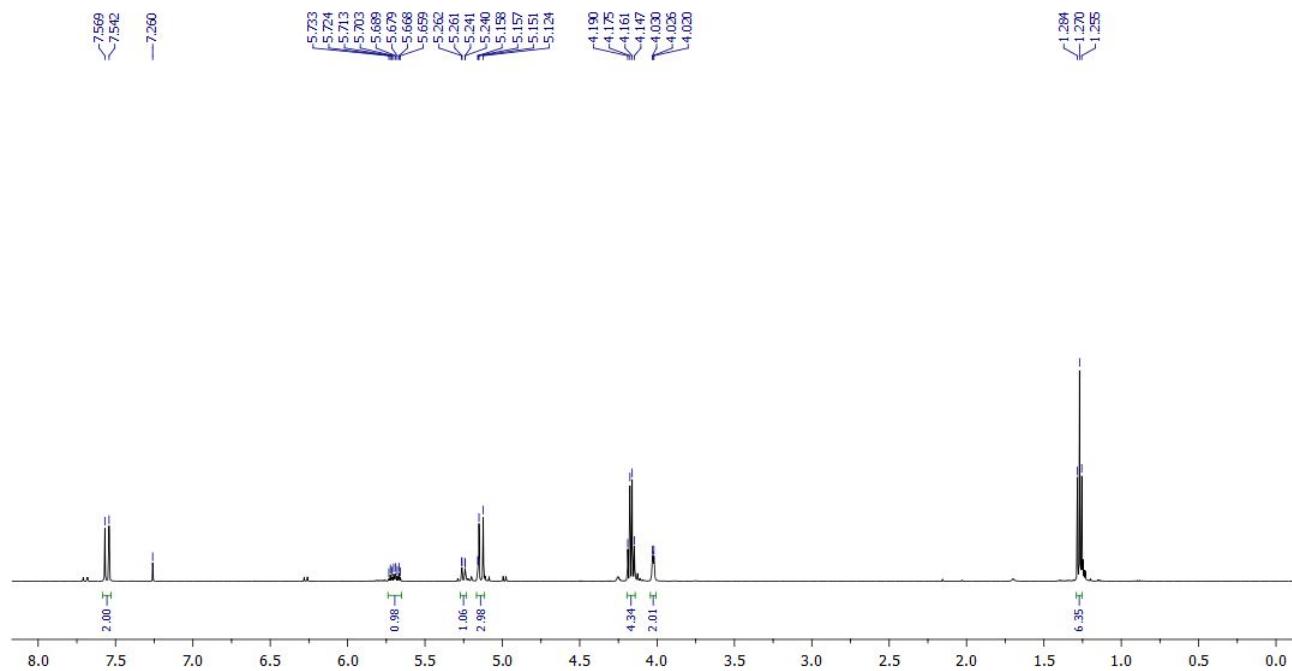
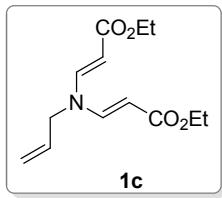
¹³C NMR (125.8 MHz, CDCl_3)

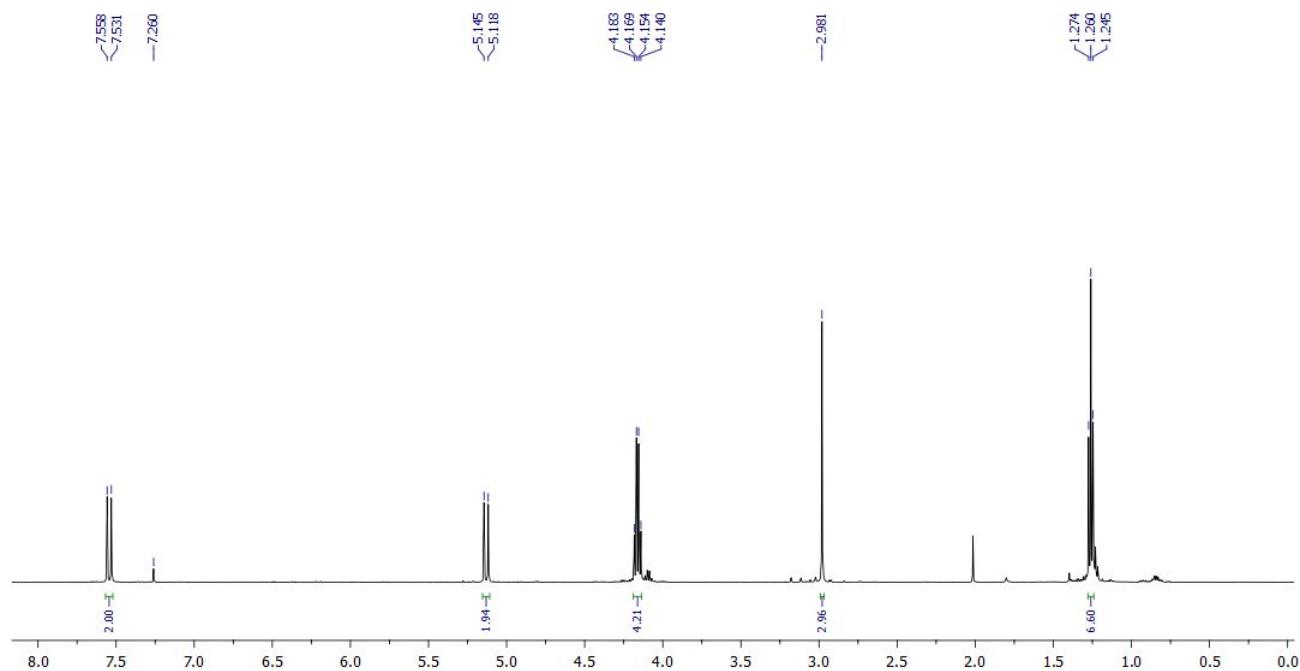
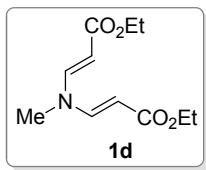


¹H NMR (500.3 MHz, CDCl₃)

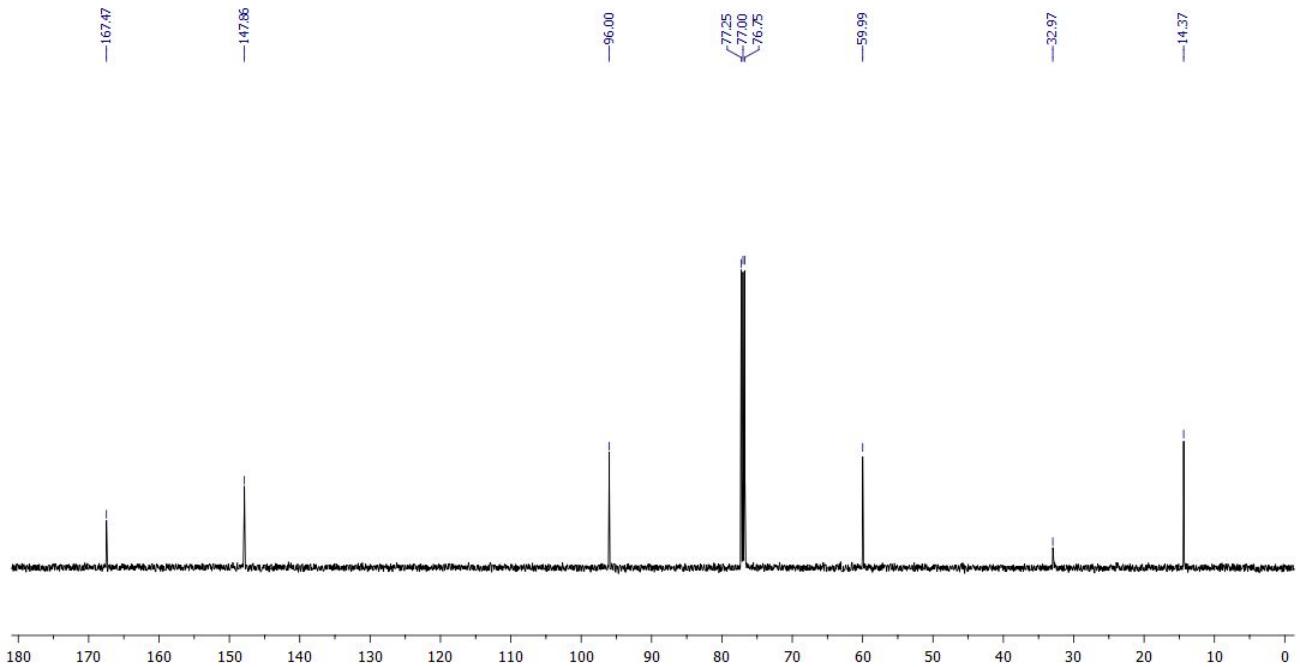


¹³C NMR (125.8 MHz, CDCl₃)

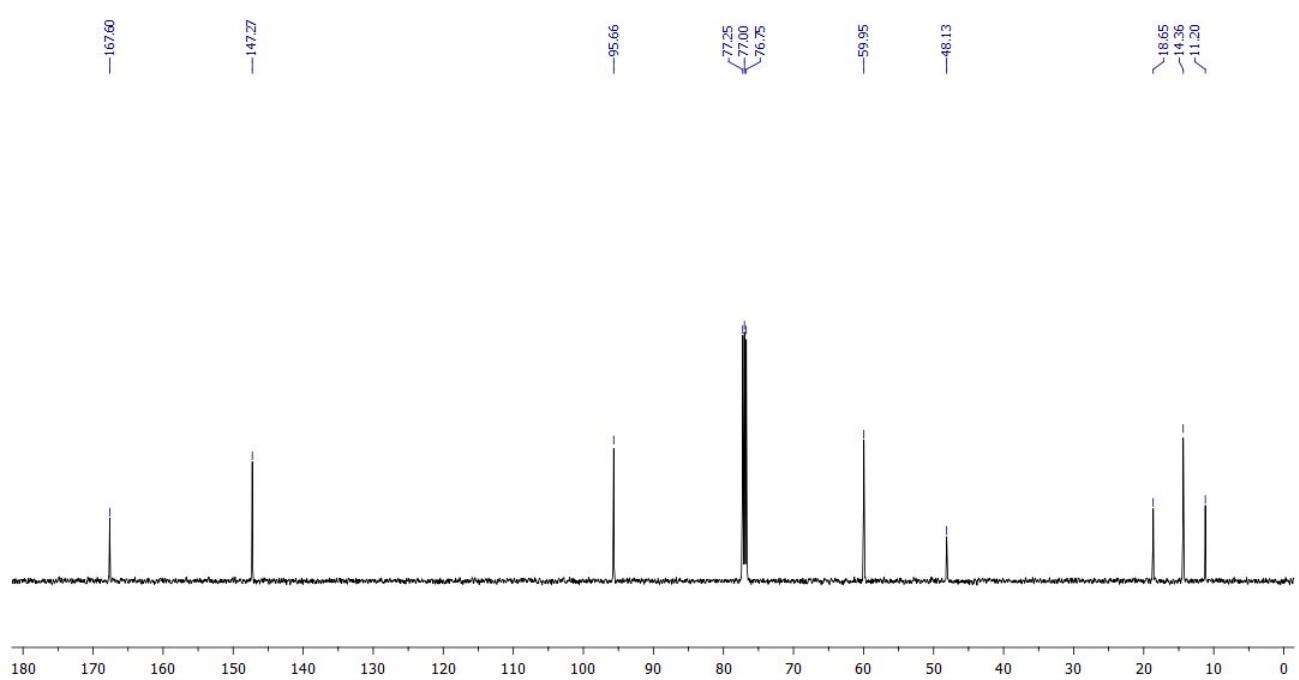
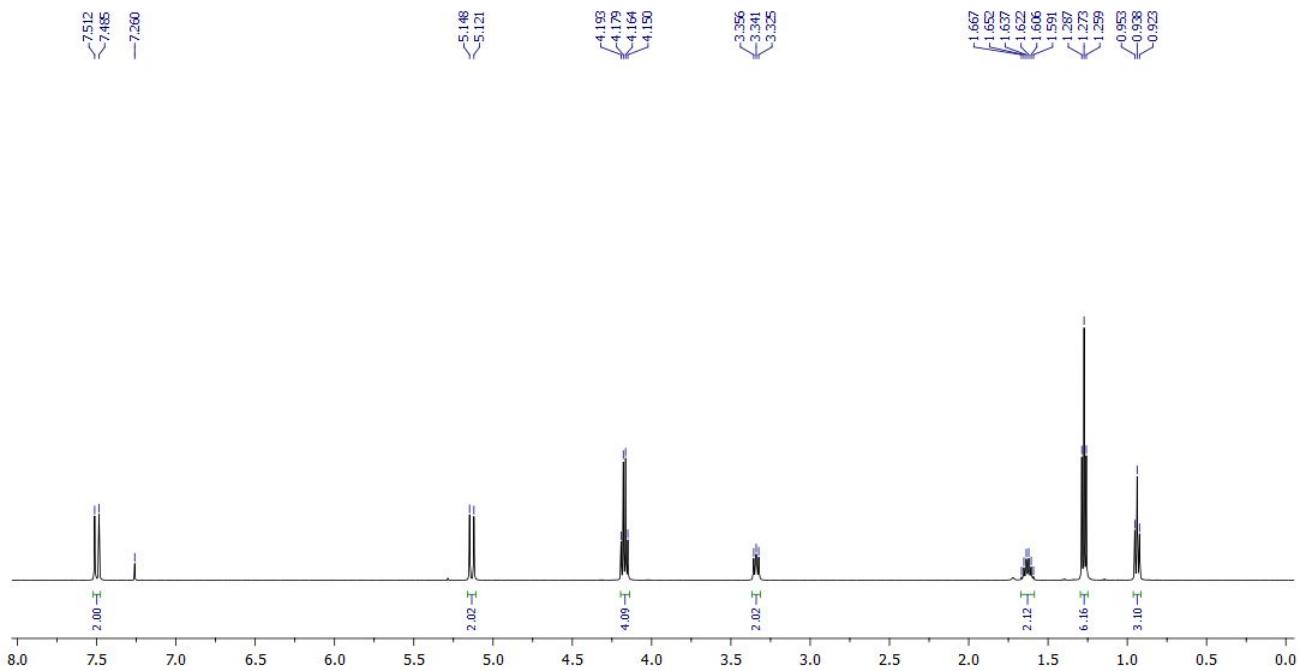
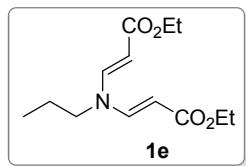


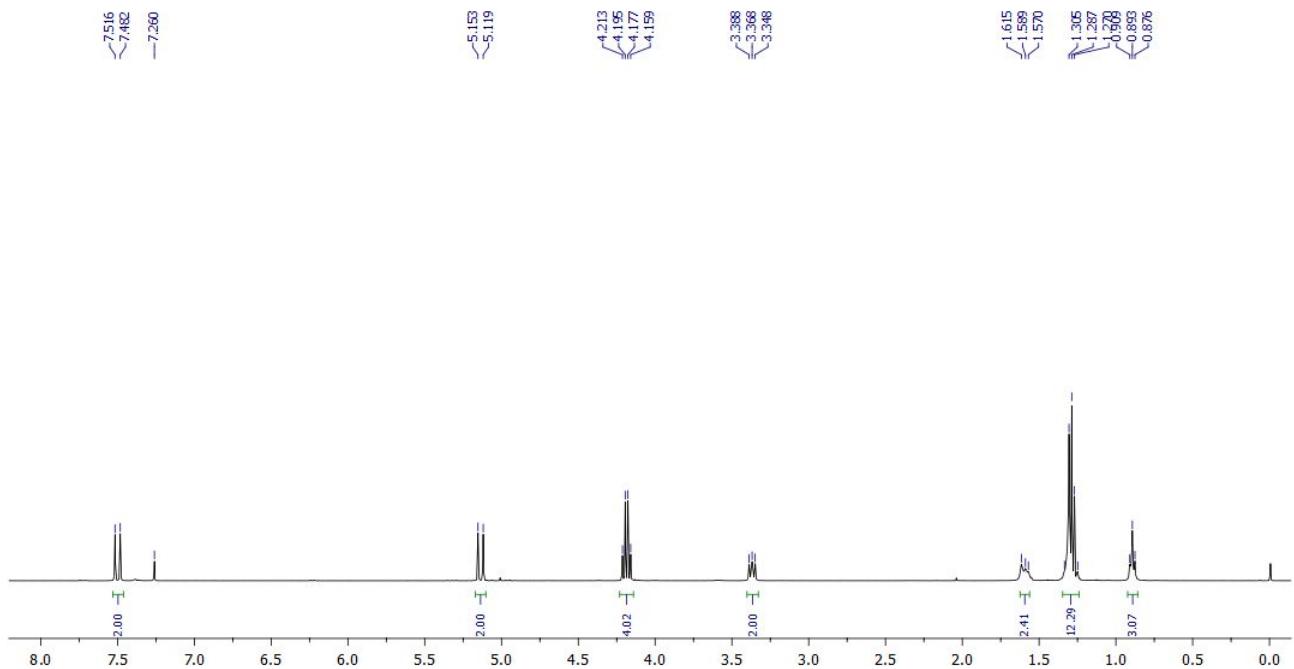
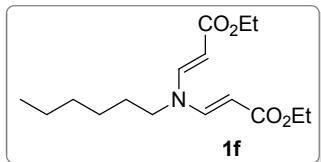


¹H NMR (500.3 MHz, CDCl₃)

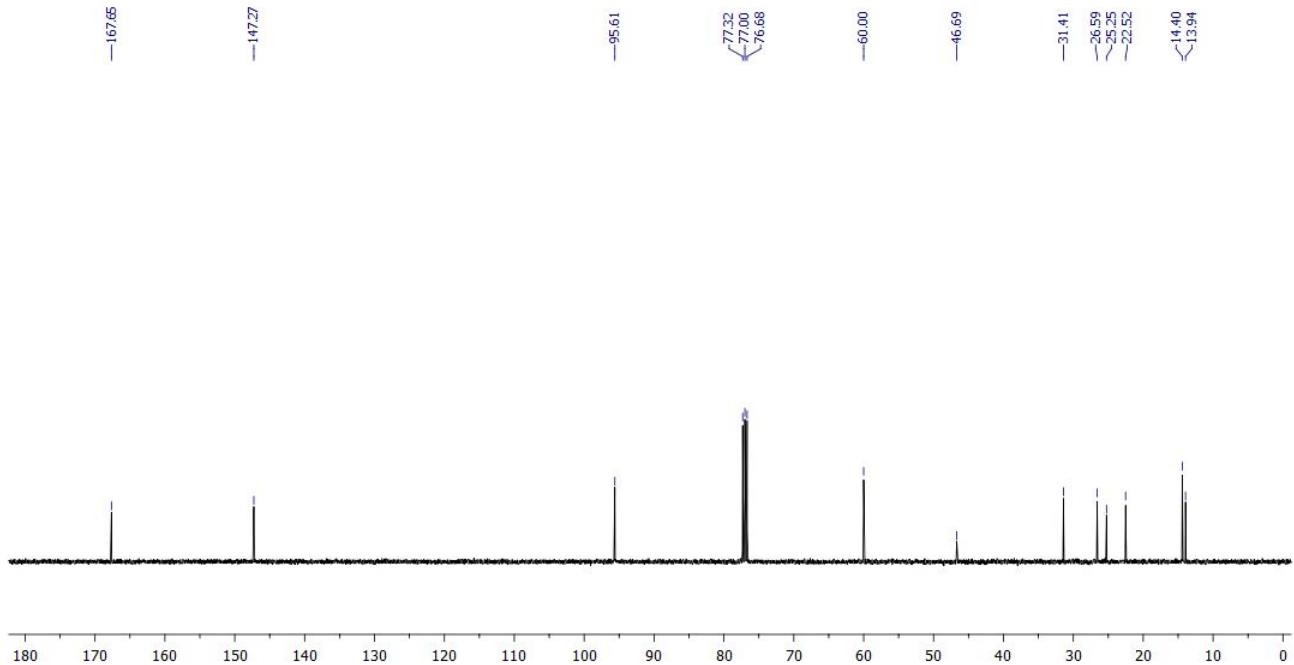


¹³C NMR (125.8 MHz, CDCl₃)

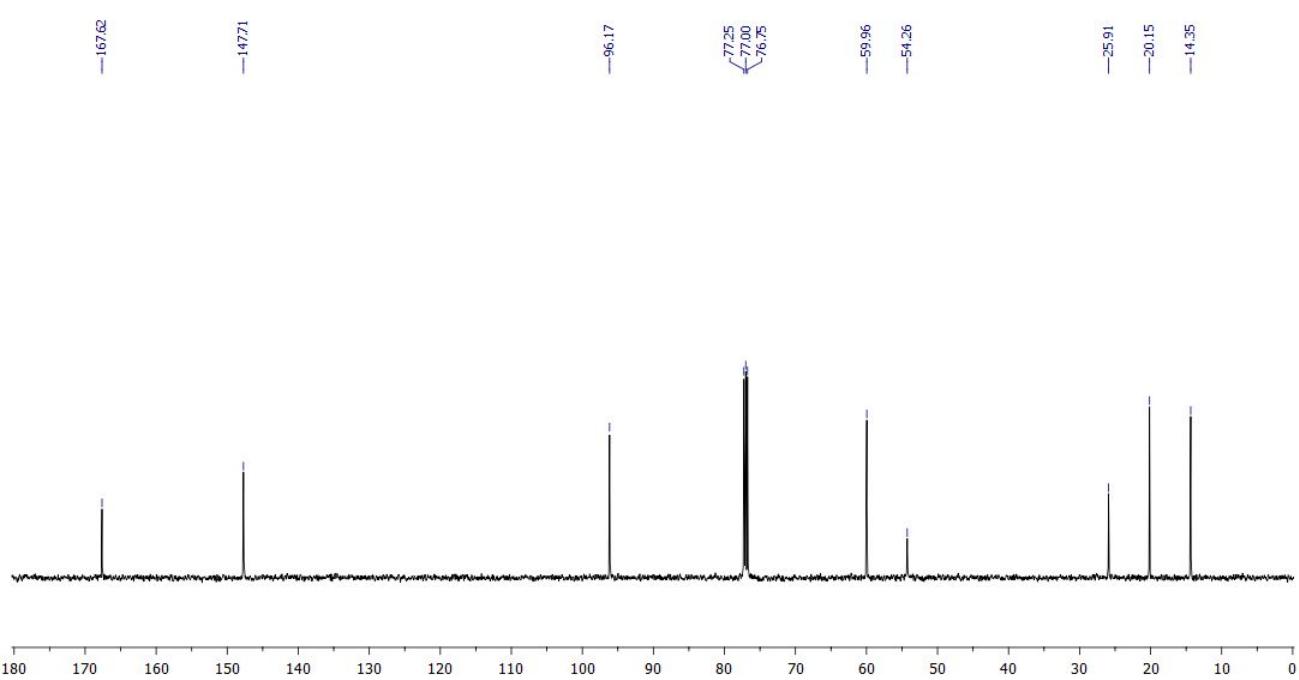
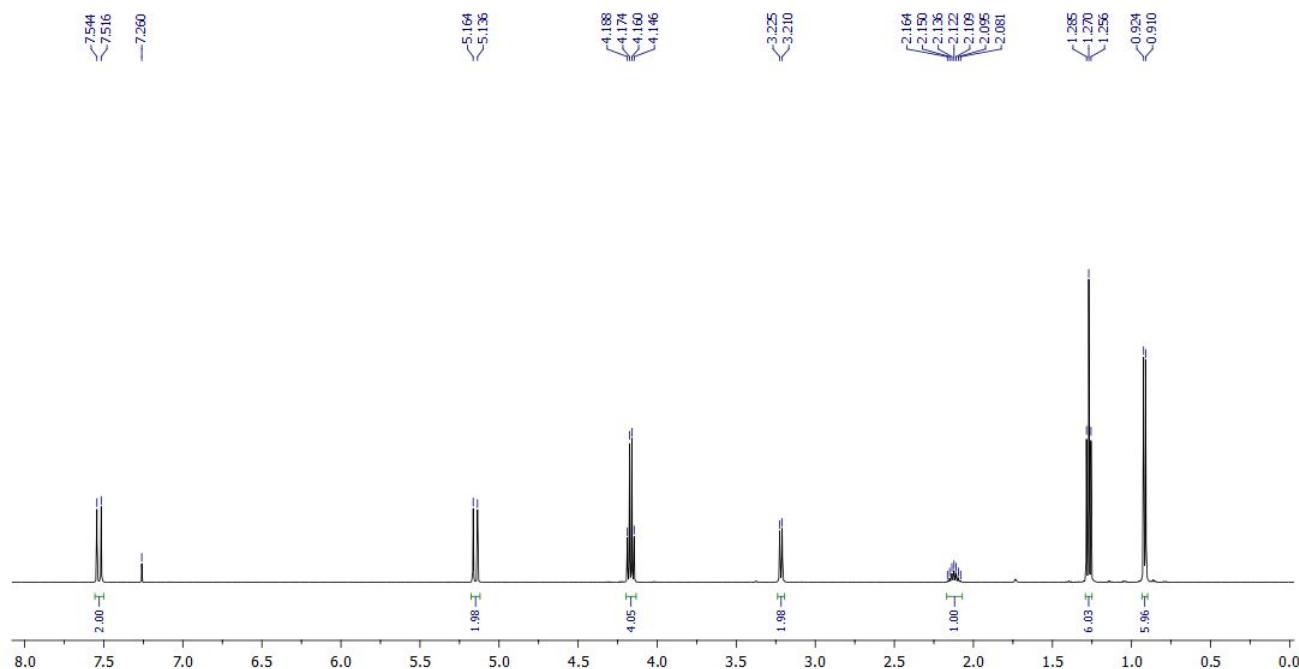
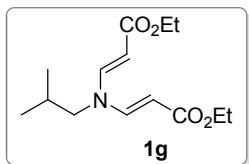




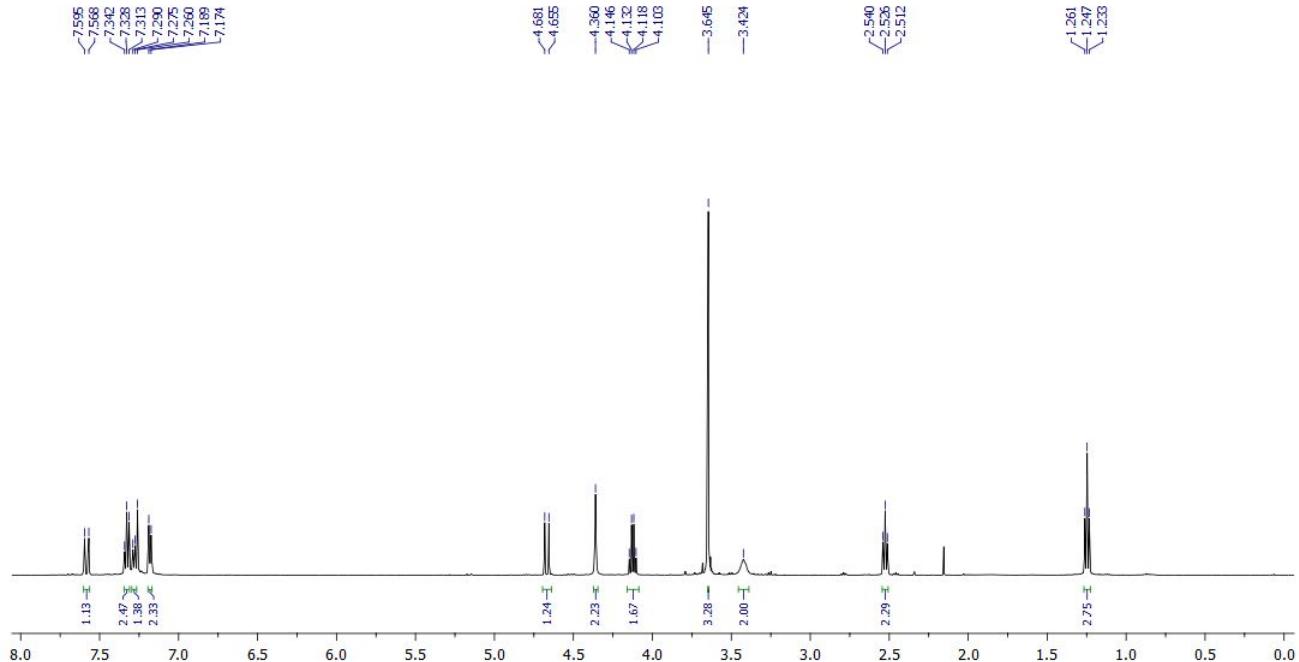
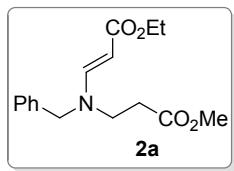
¹H NMR (400.1 MHz, CDCl₃)



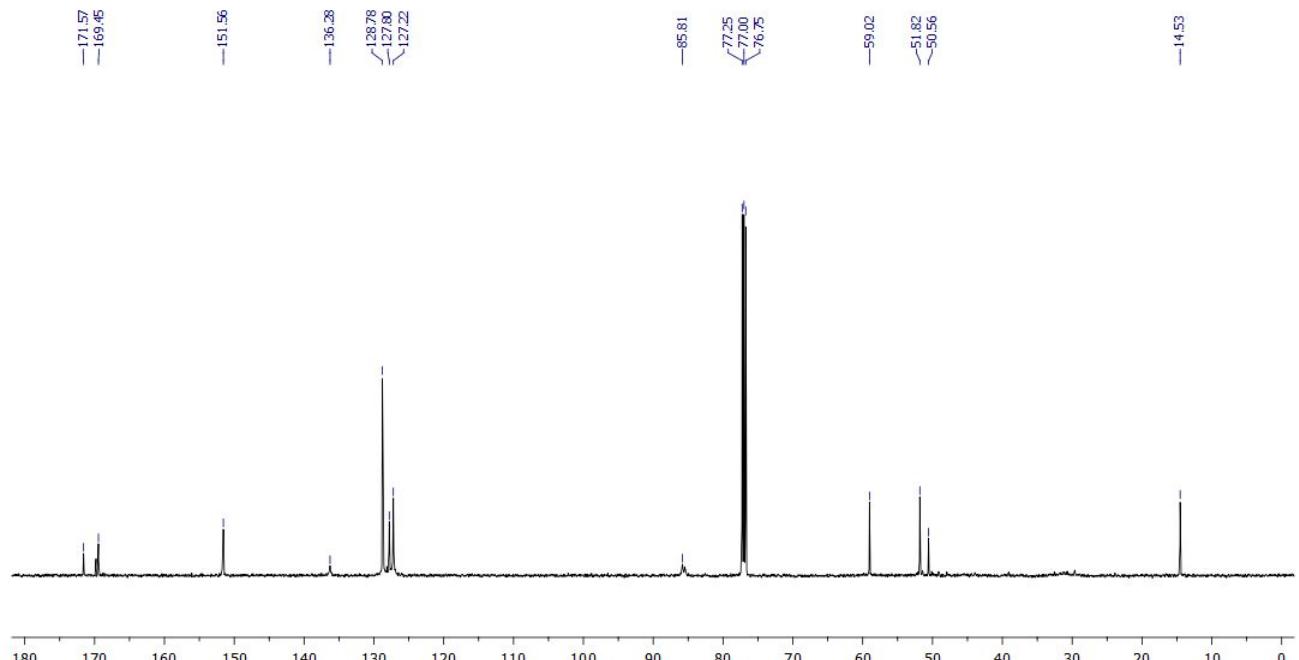
¹³C NMR (100.6 MHz, CDCl₃)



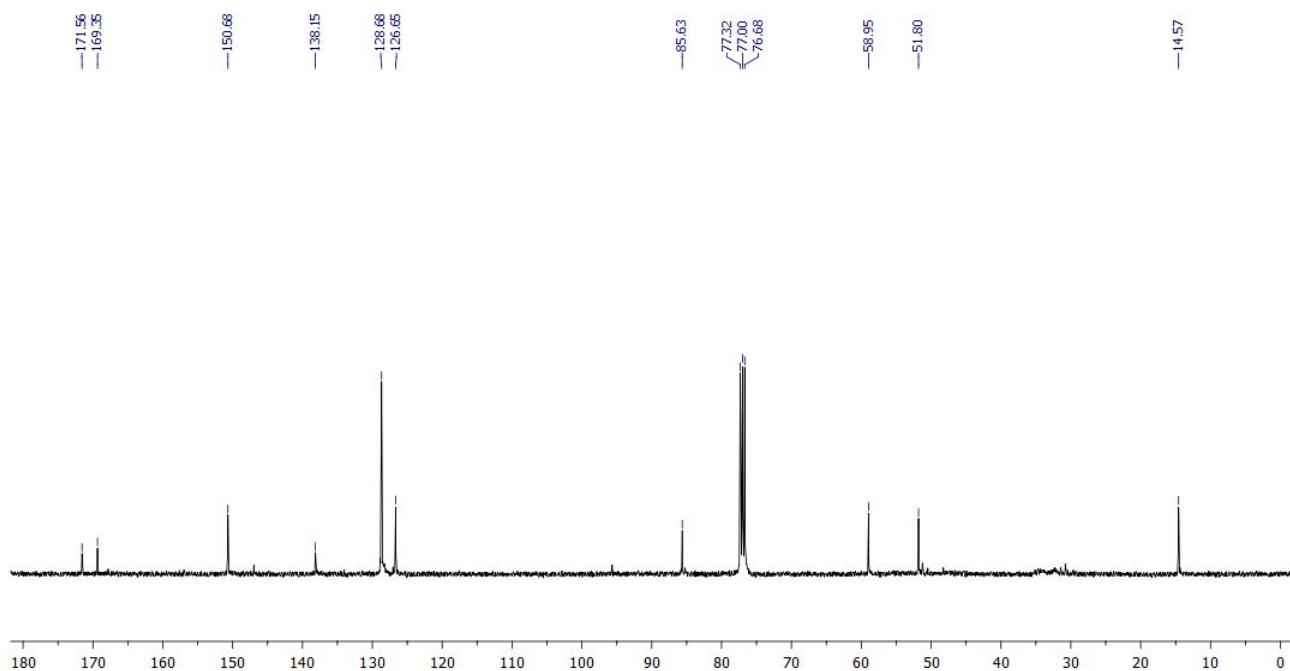
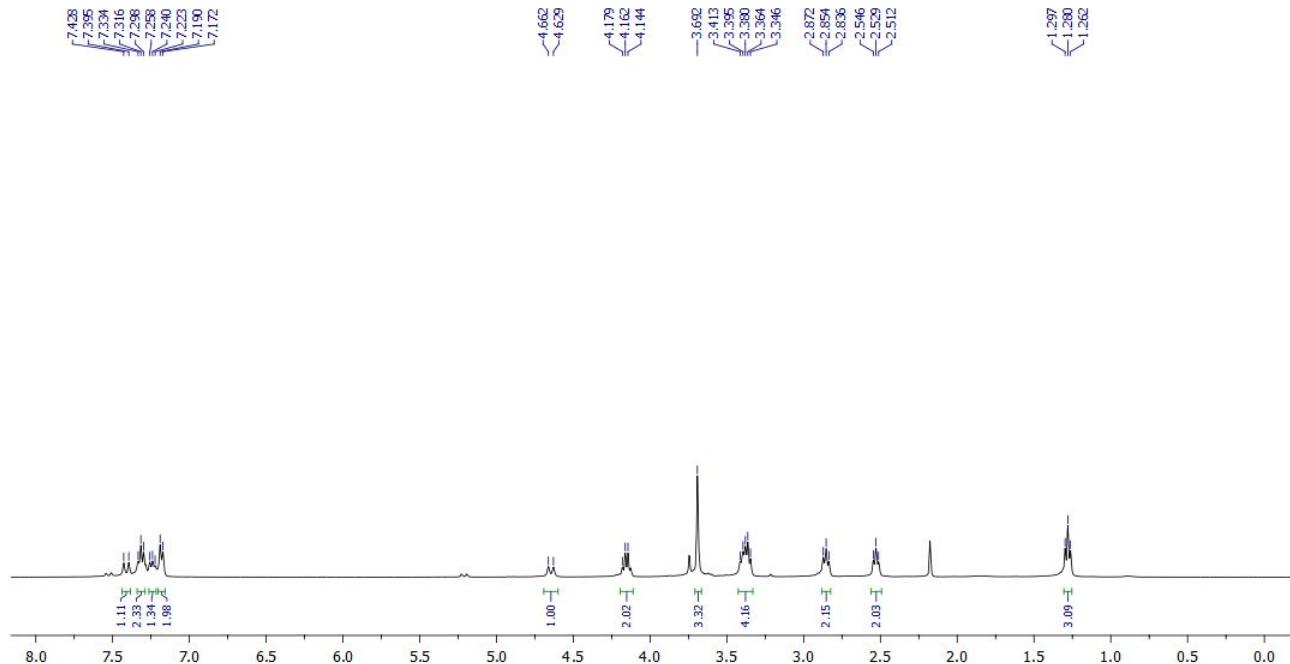
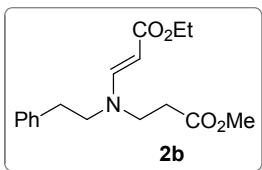
Compounds 2

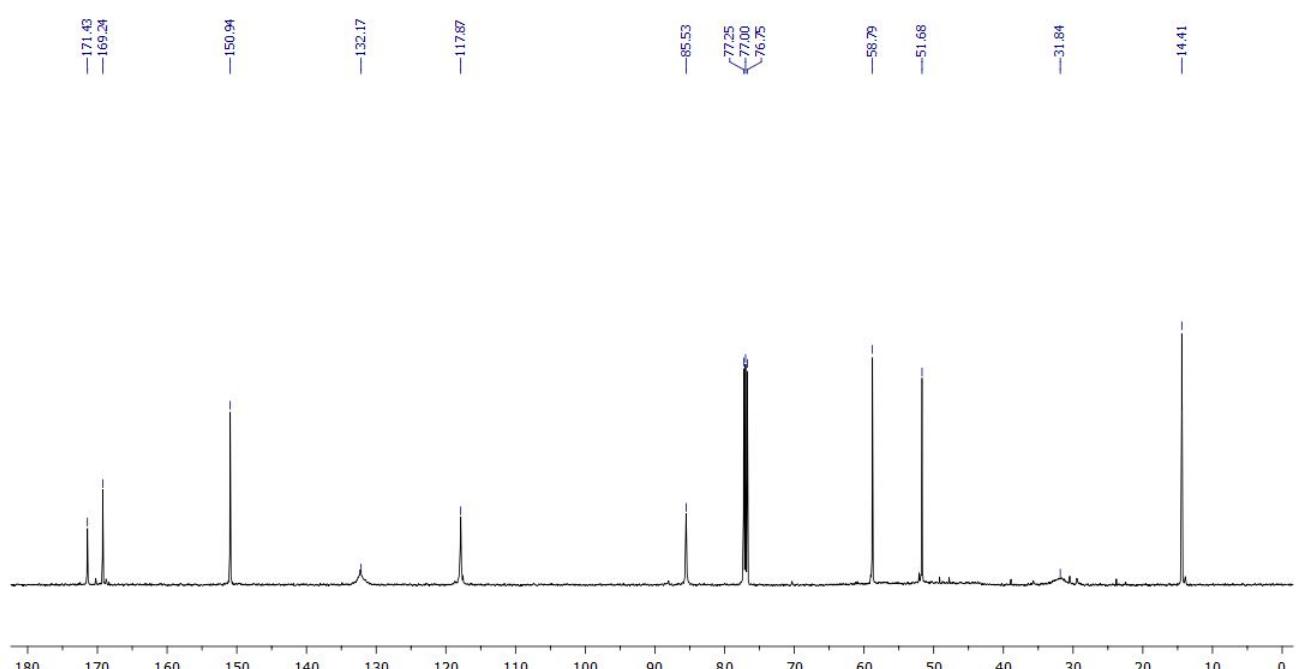
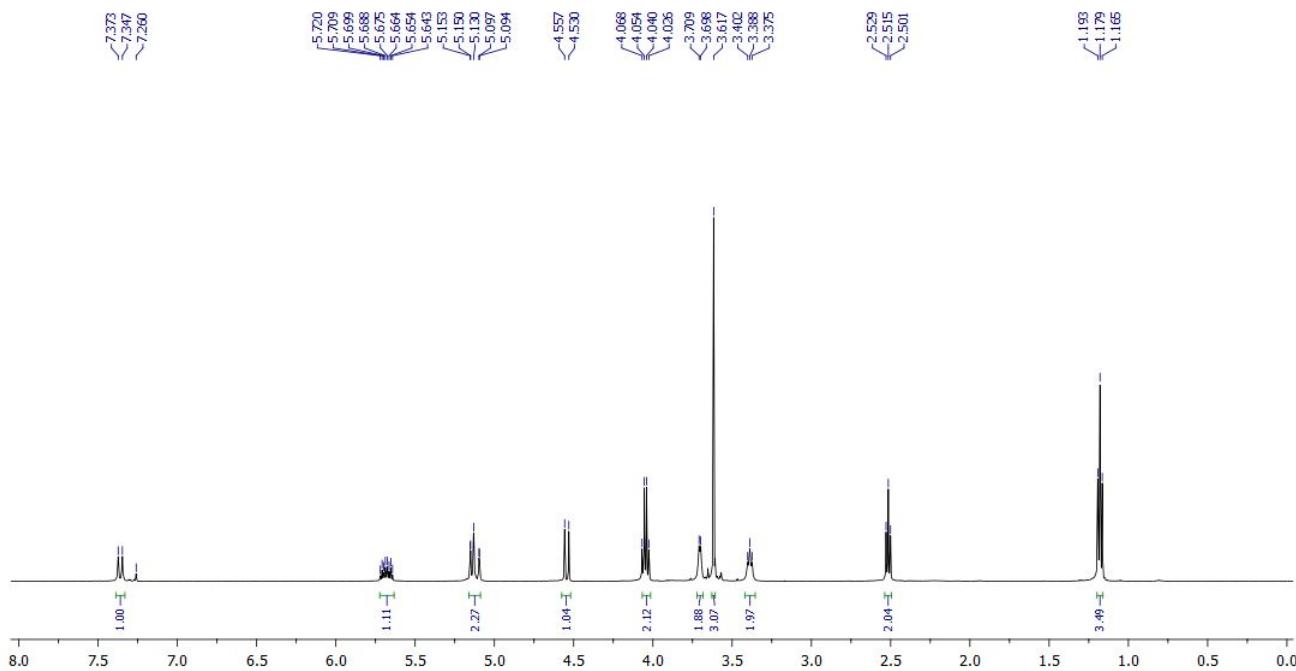
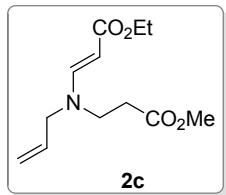


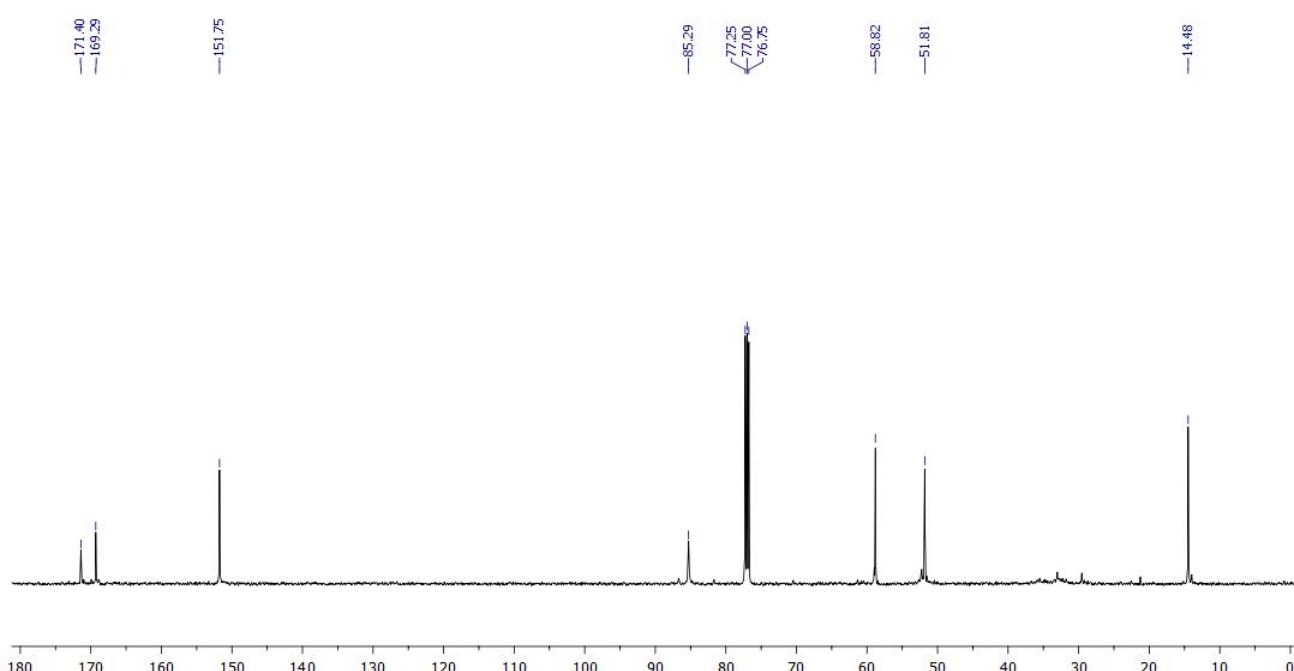
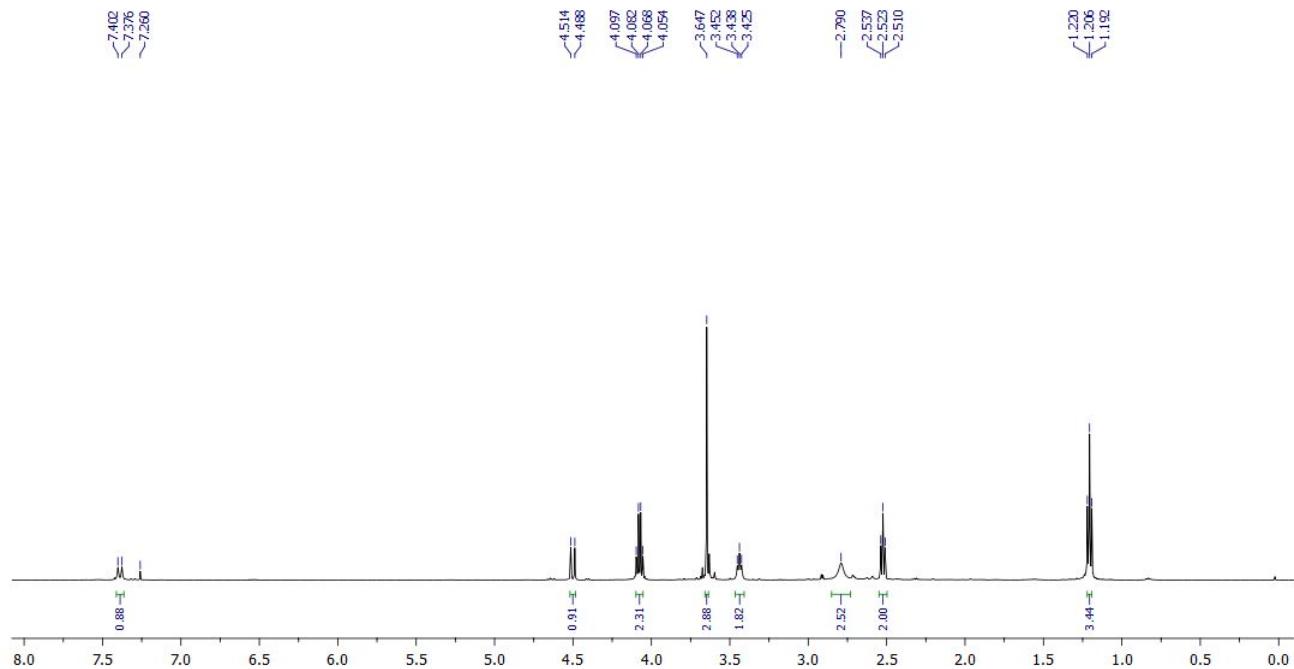
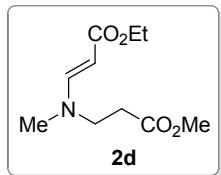
¹H NMR (500.3 MHz, CDCl₃)

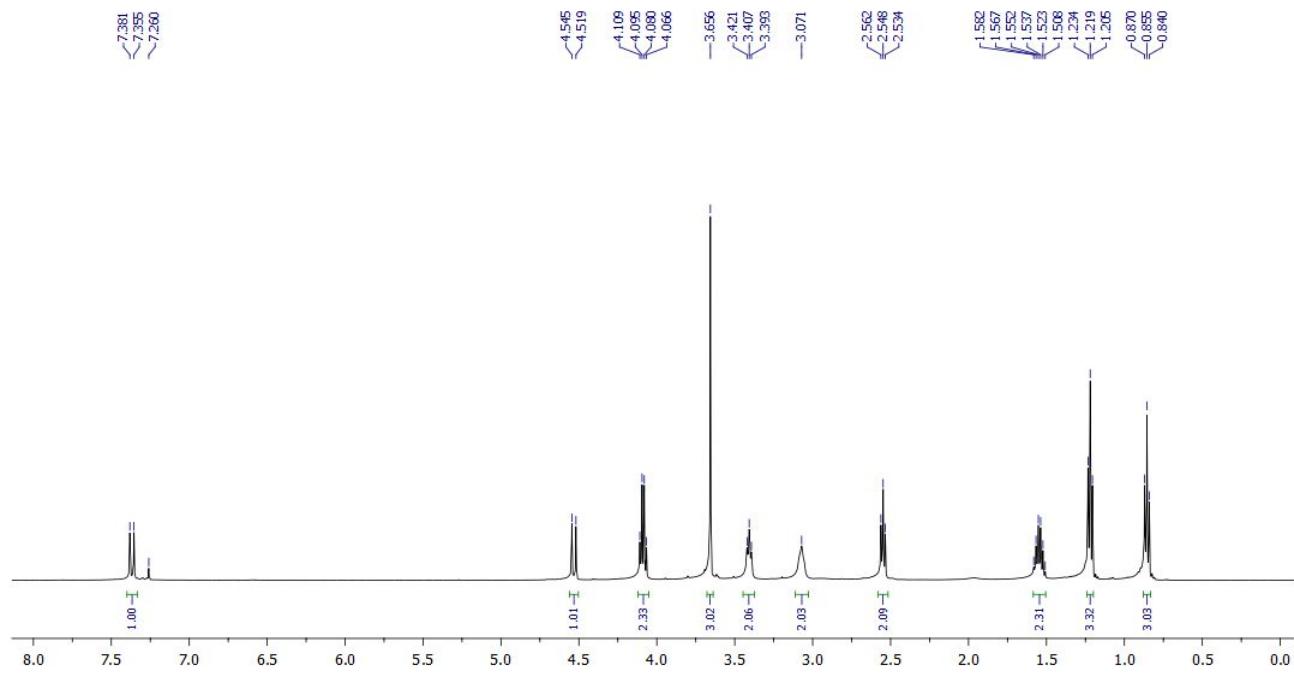
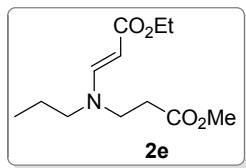


¹³C NMR (125.8 MHz, CDCl₃)

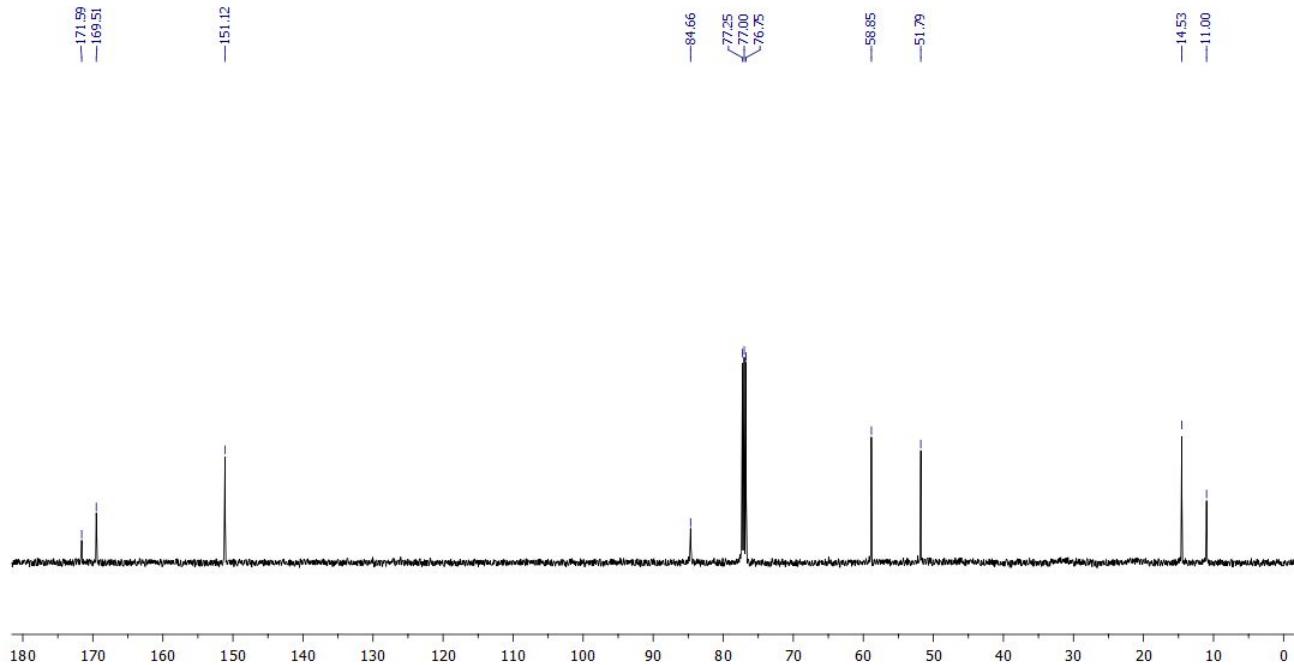




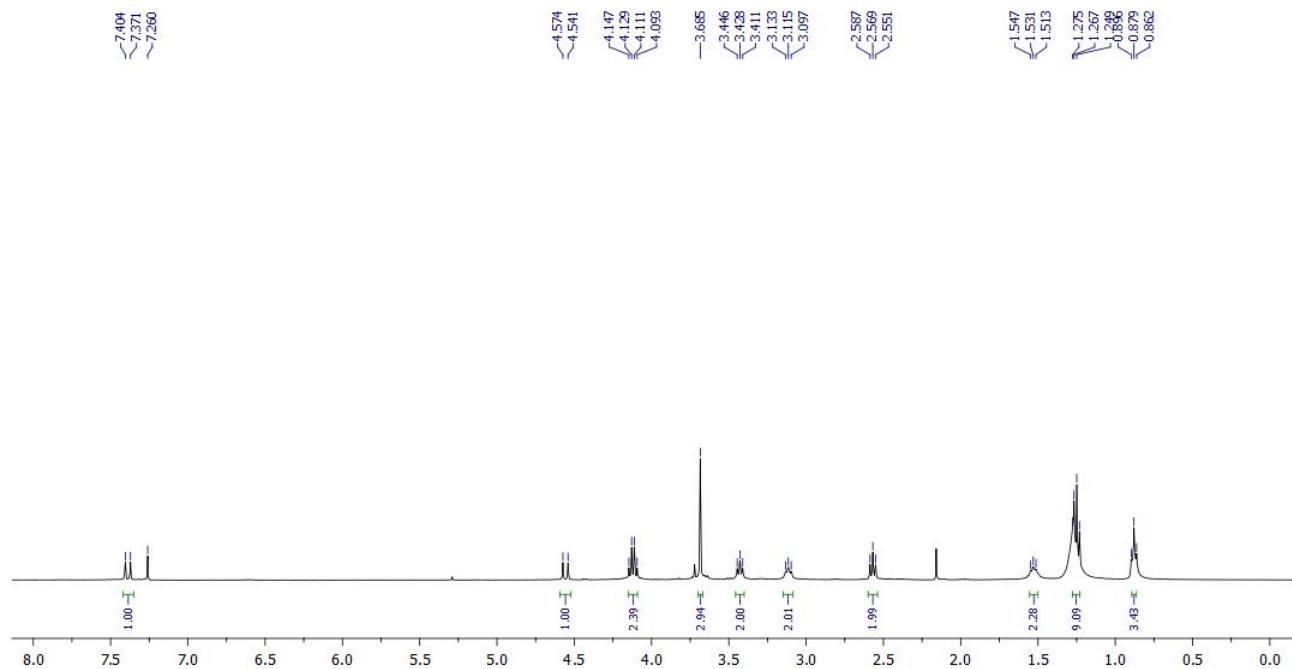
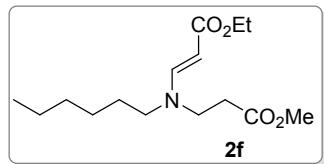




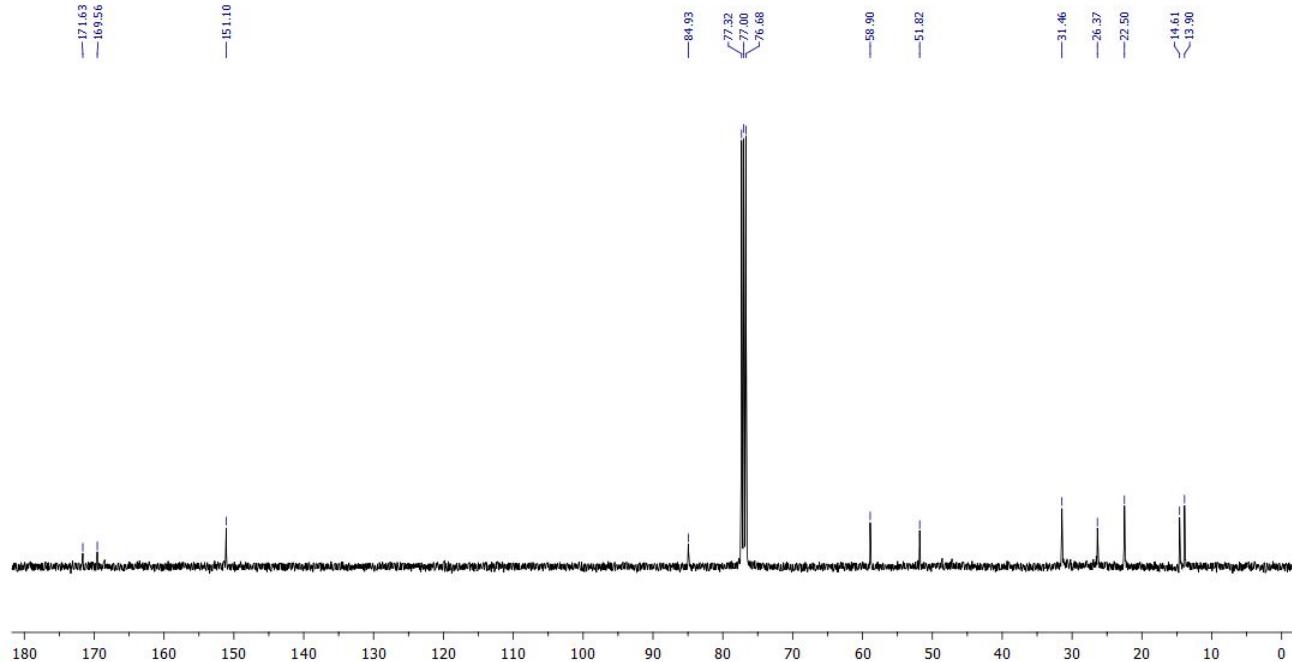
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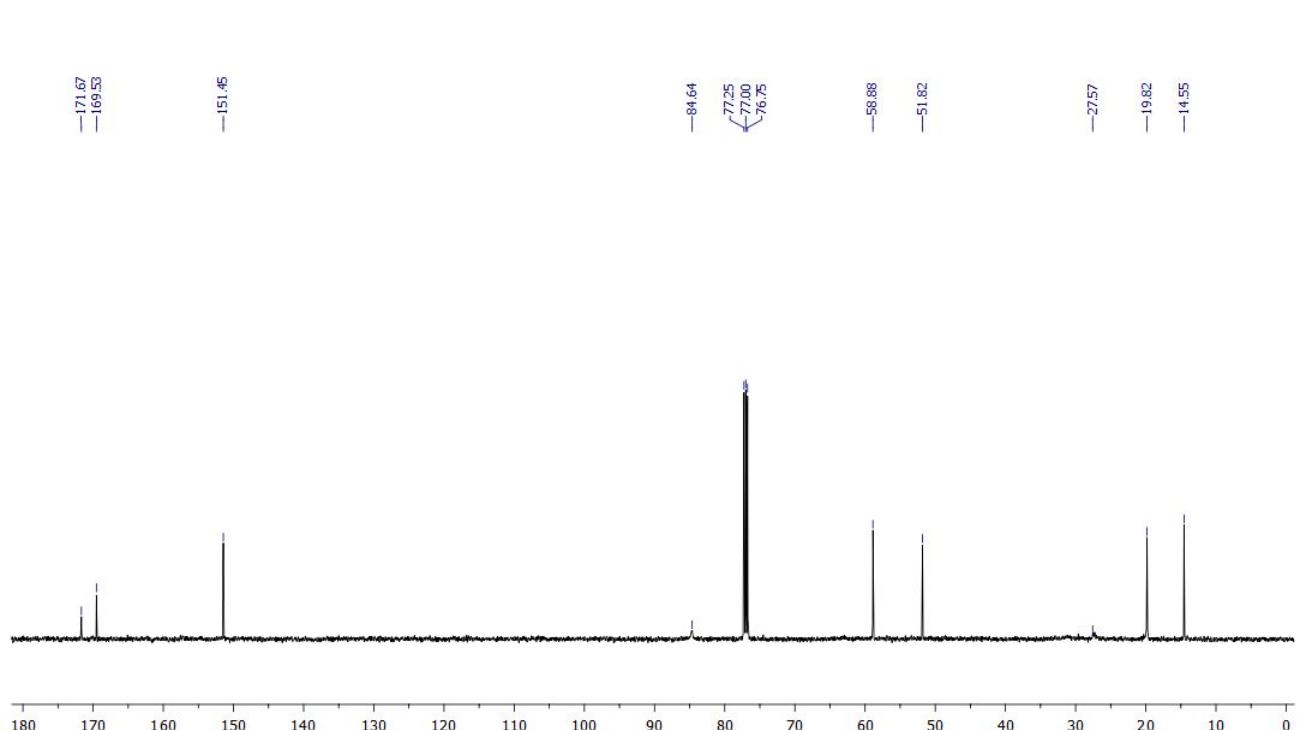
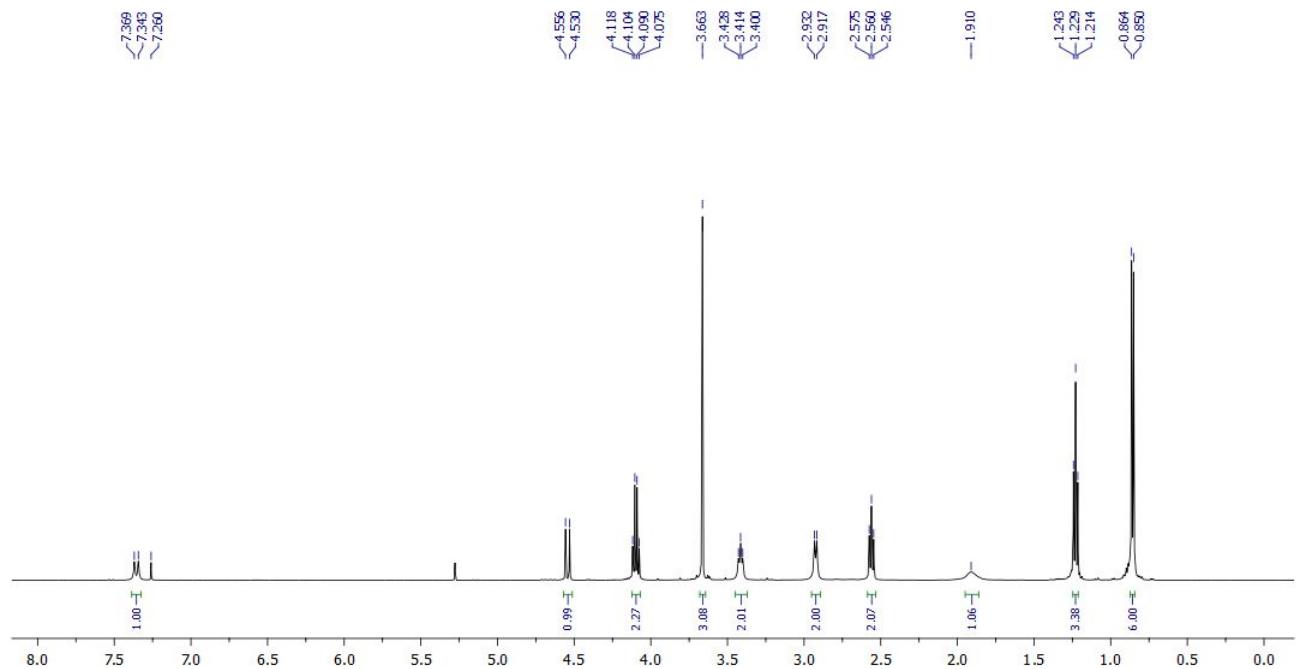
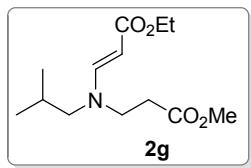
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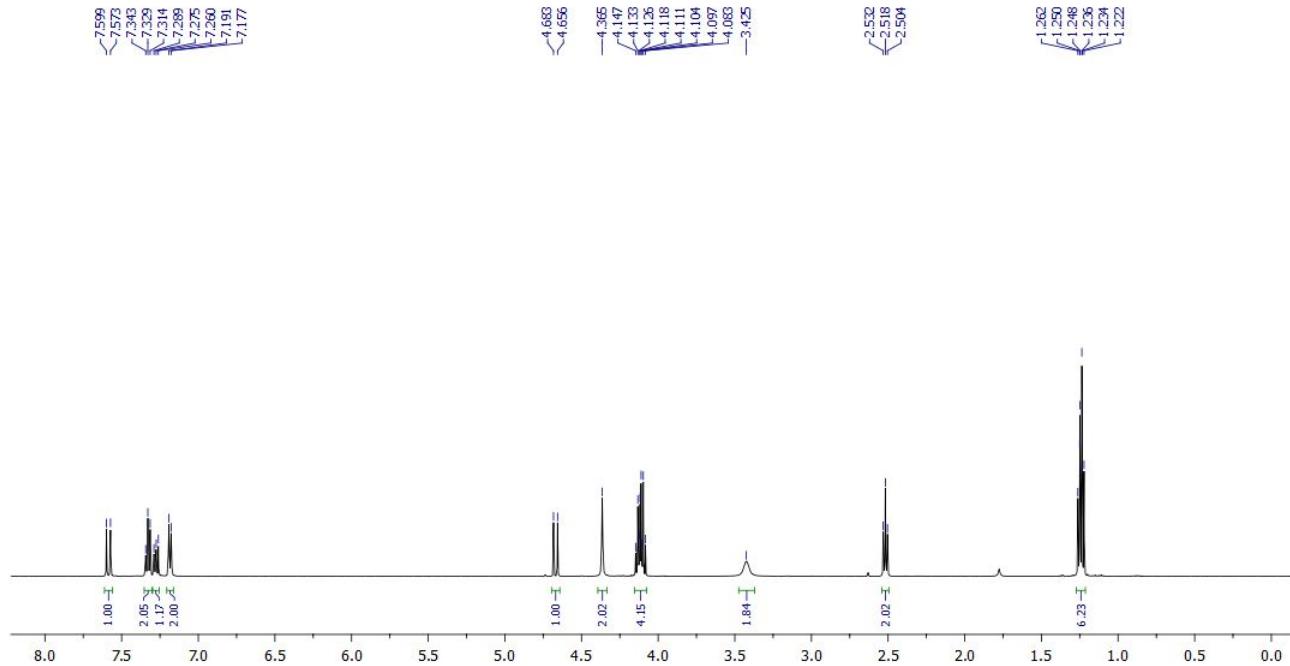
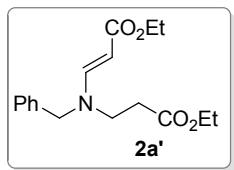


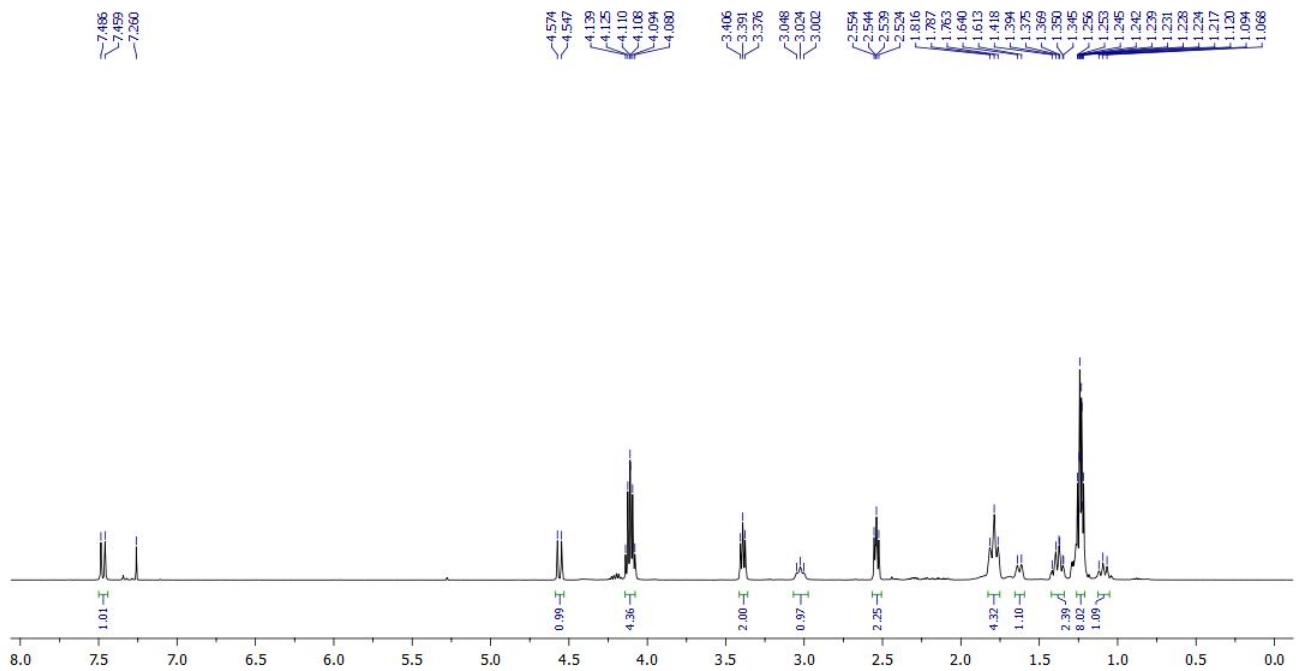
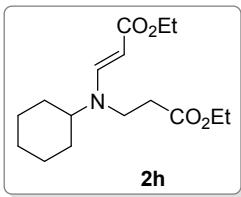
¹H NMR (400.1 MHz, CDCl₃)



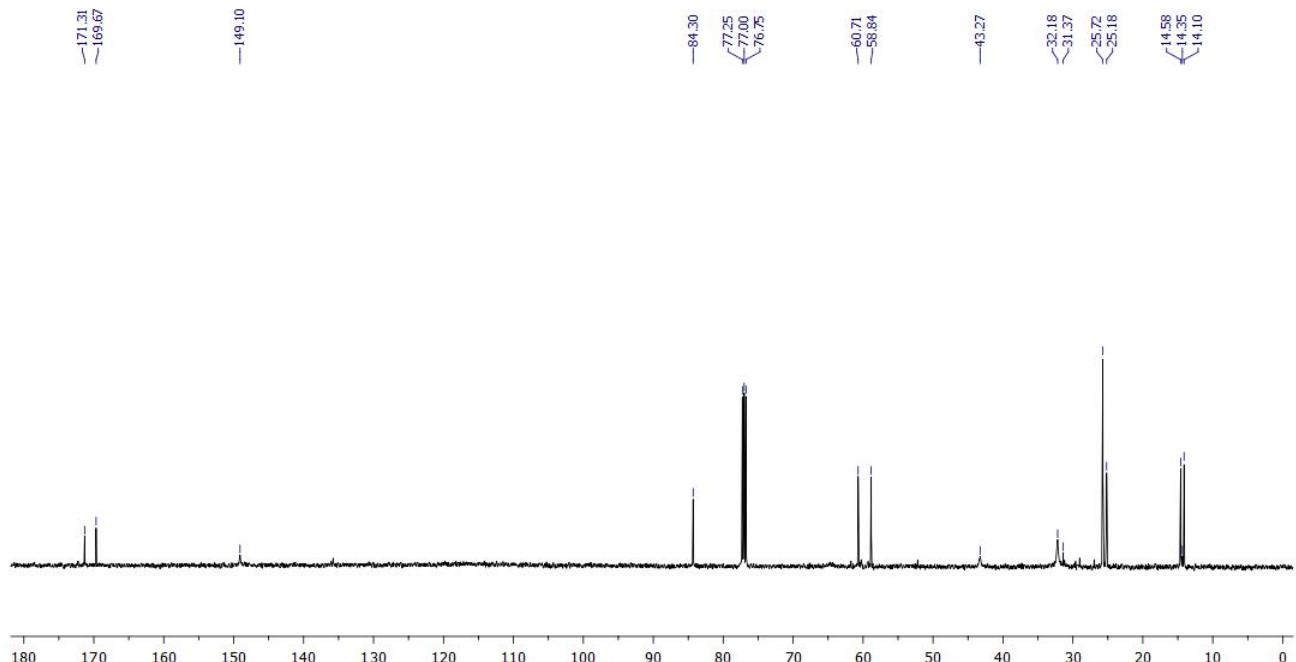
¹³C NMR (100.6 MHz, CDCl₃)



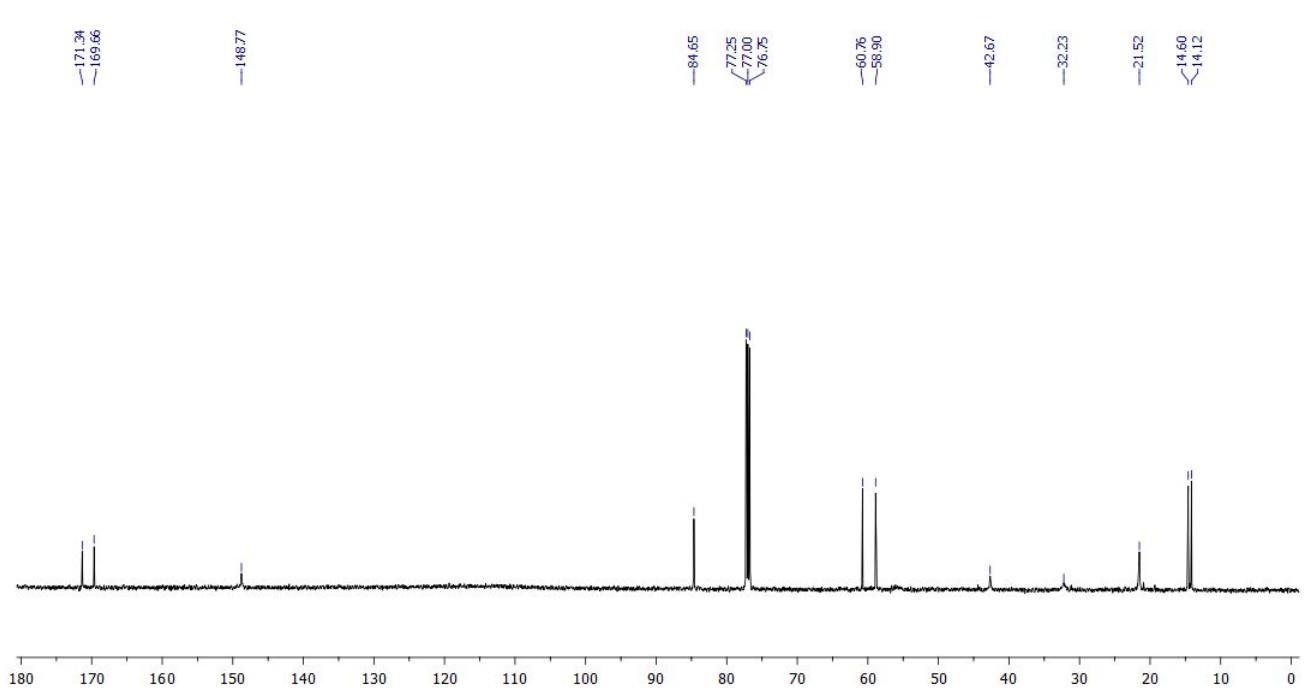
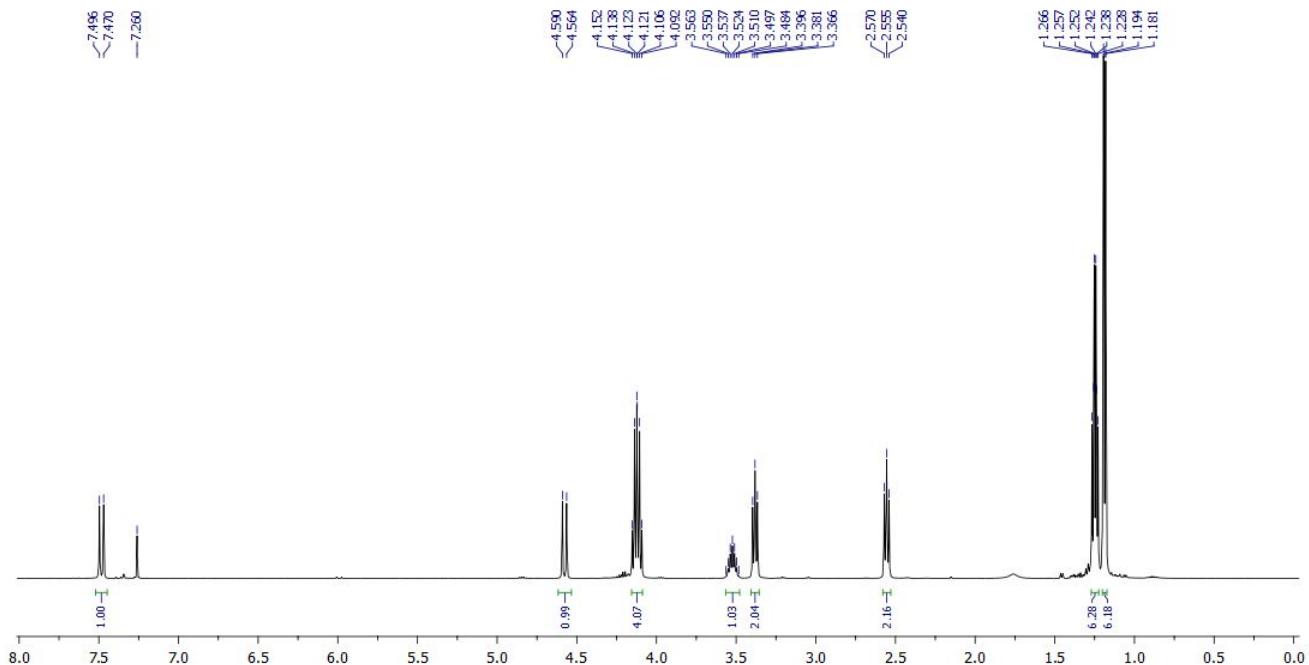
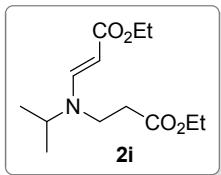


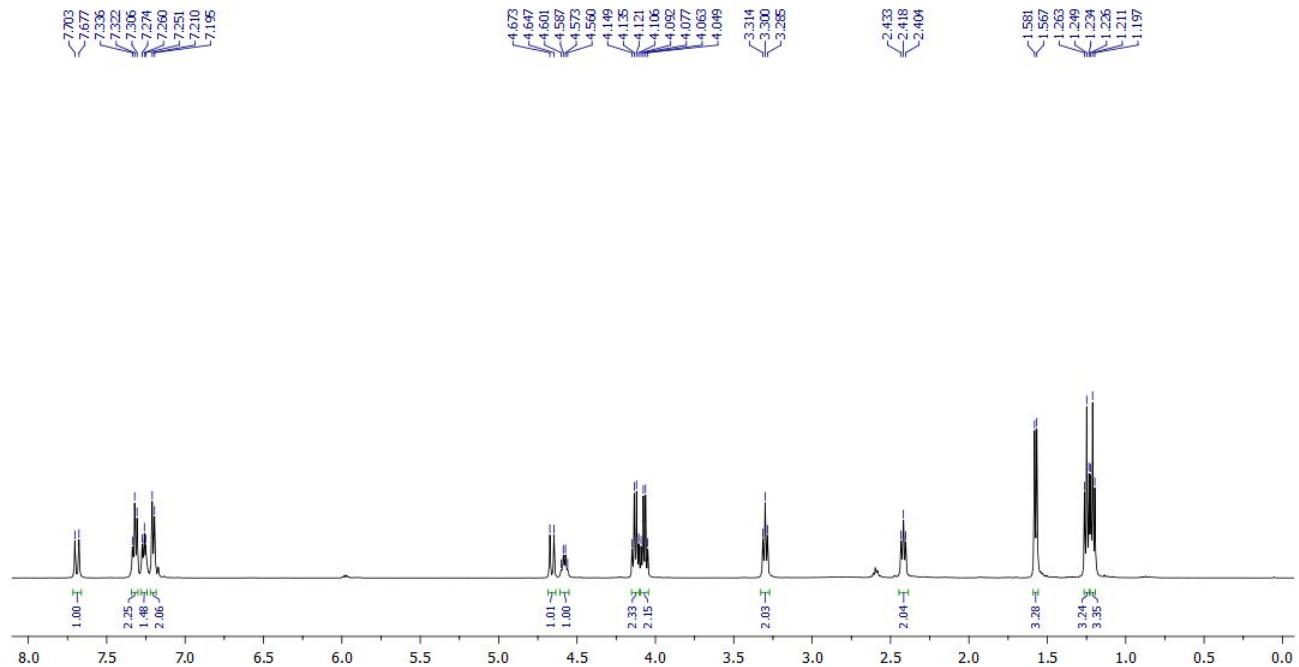
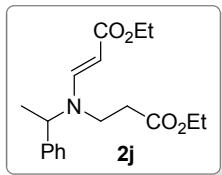


¹H NMR (500.3 MHz, CDCl₃)

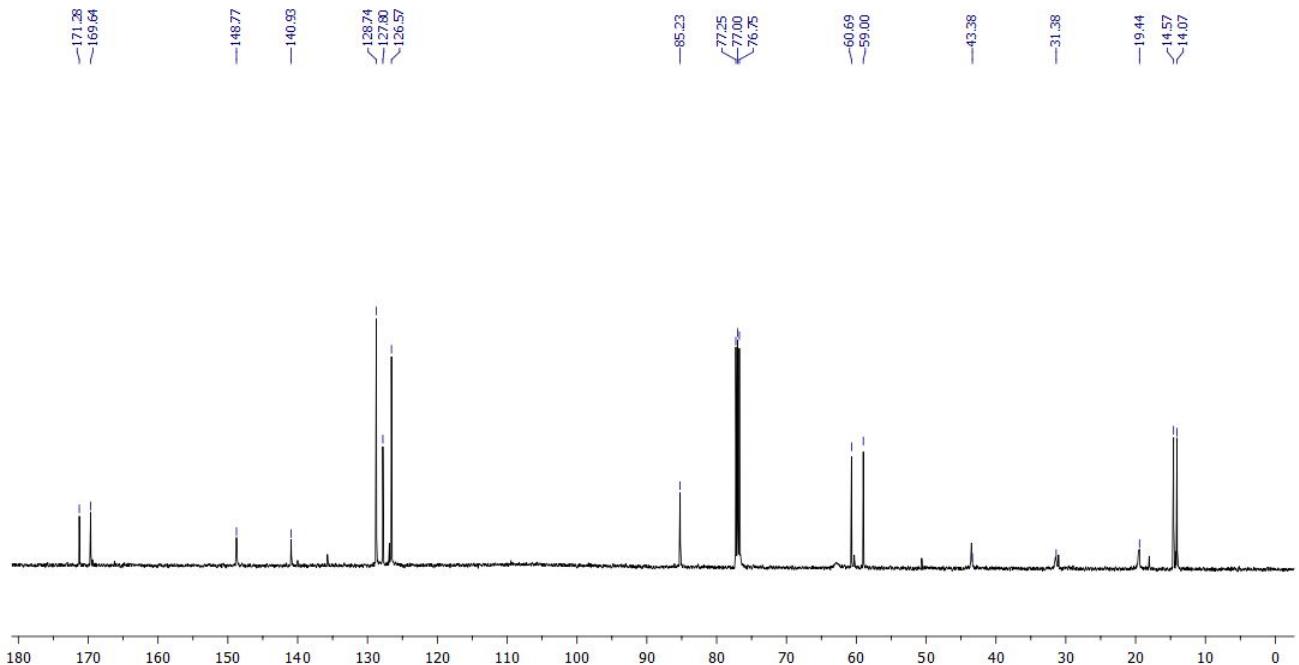


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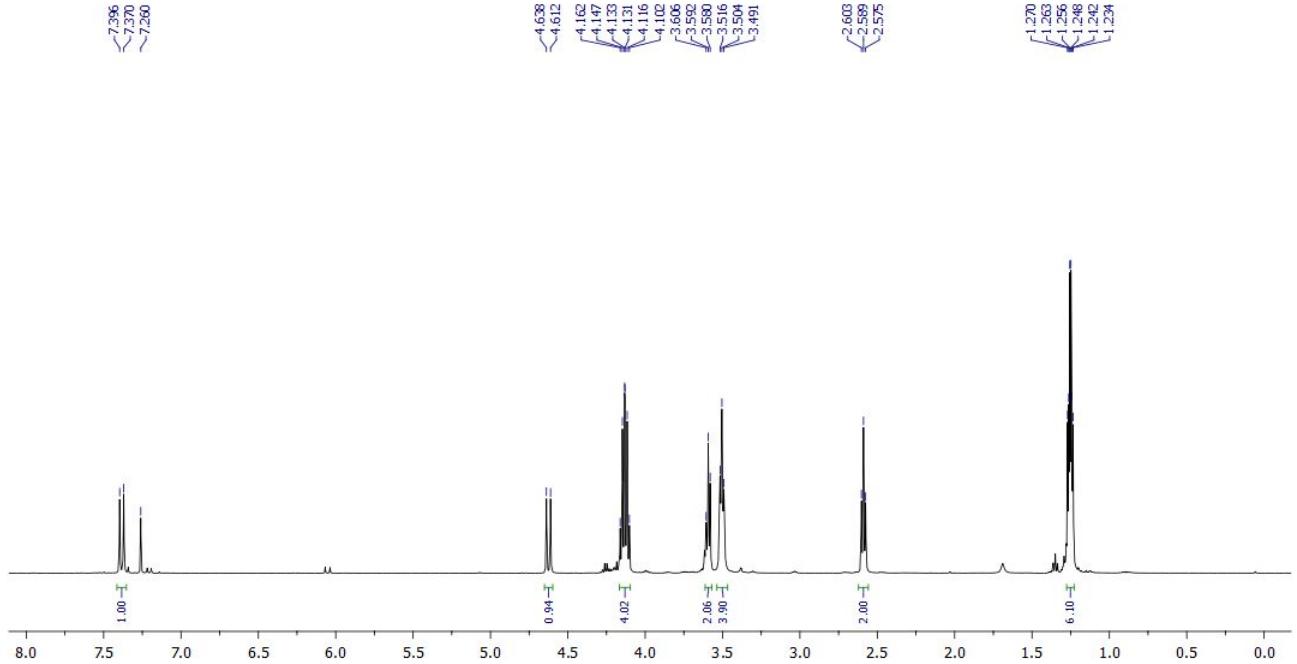
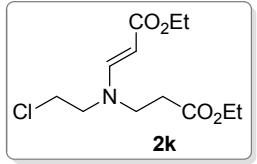




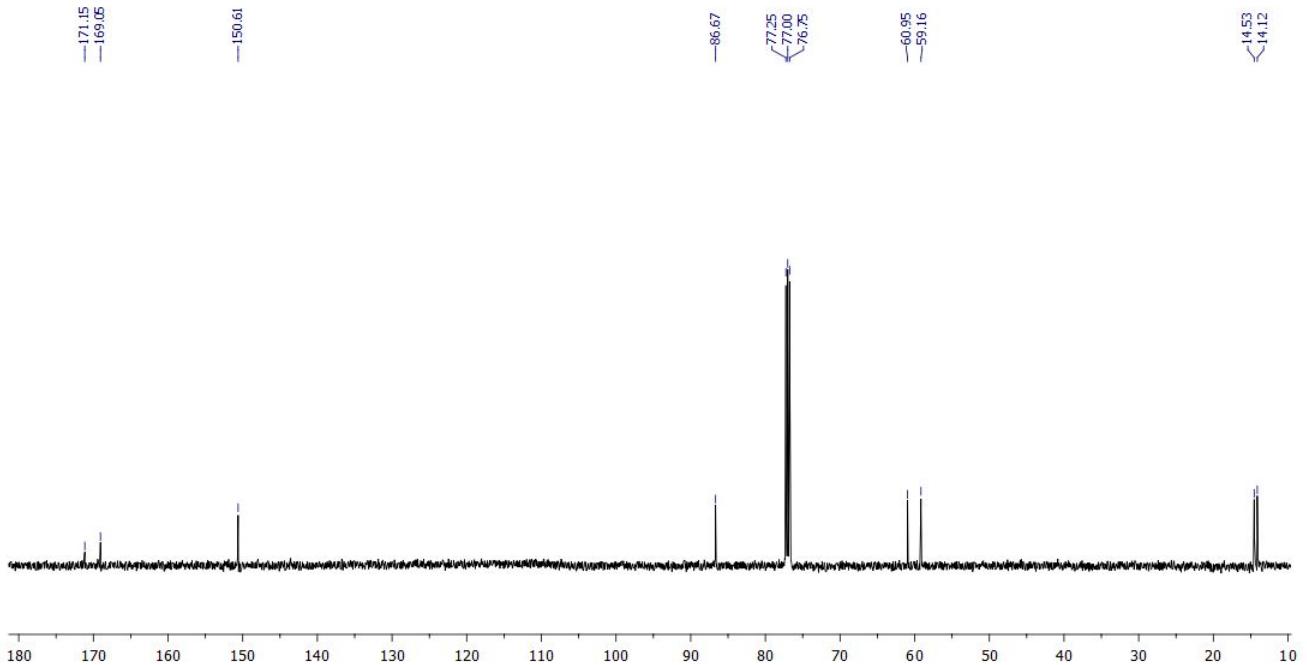
¹H NMR (500.3 MHz, CDCl₃)



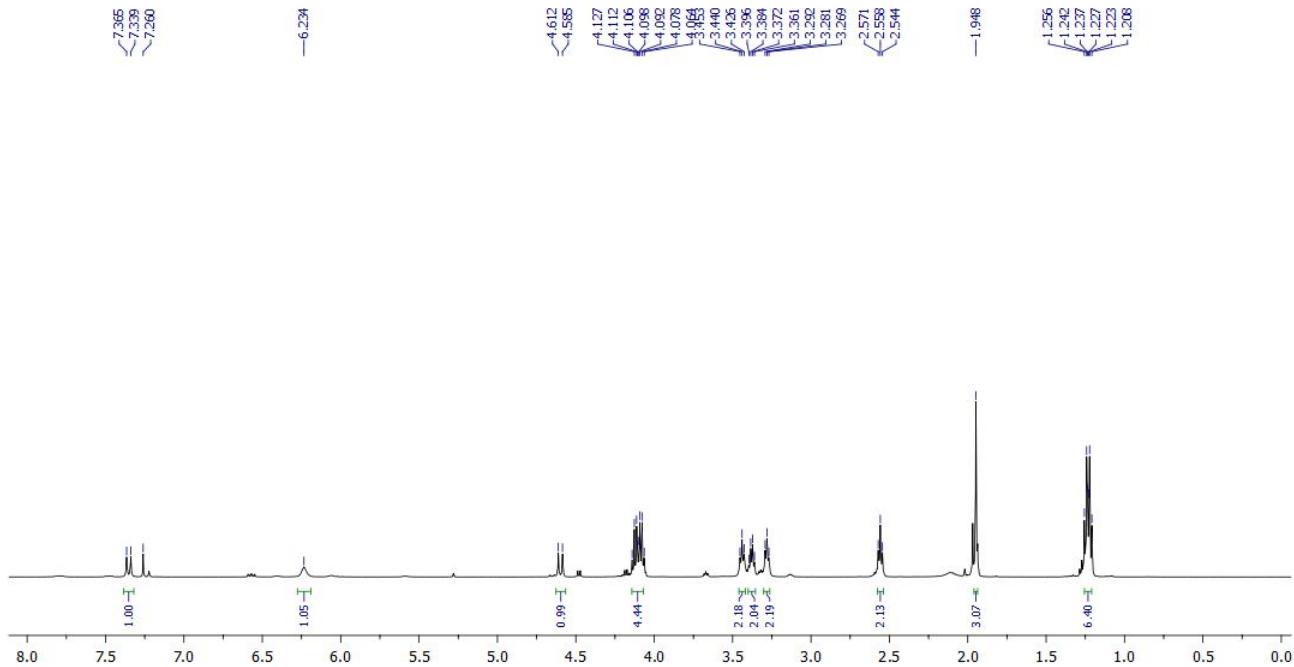
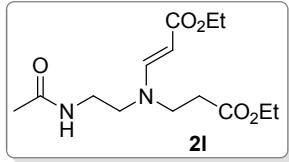
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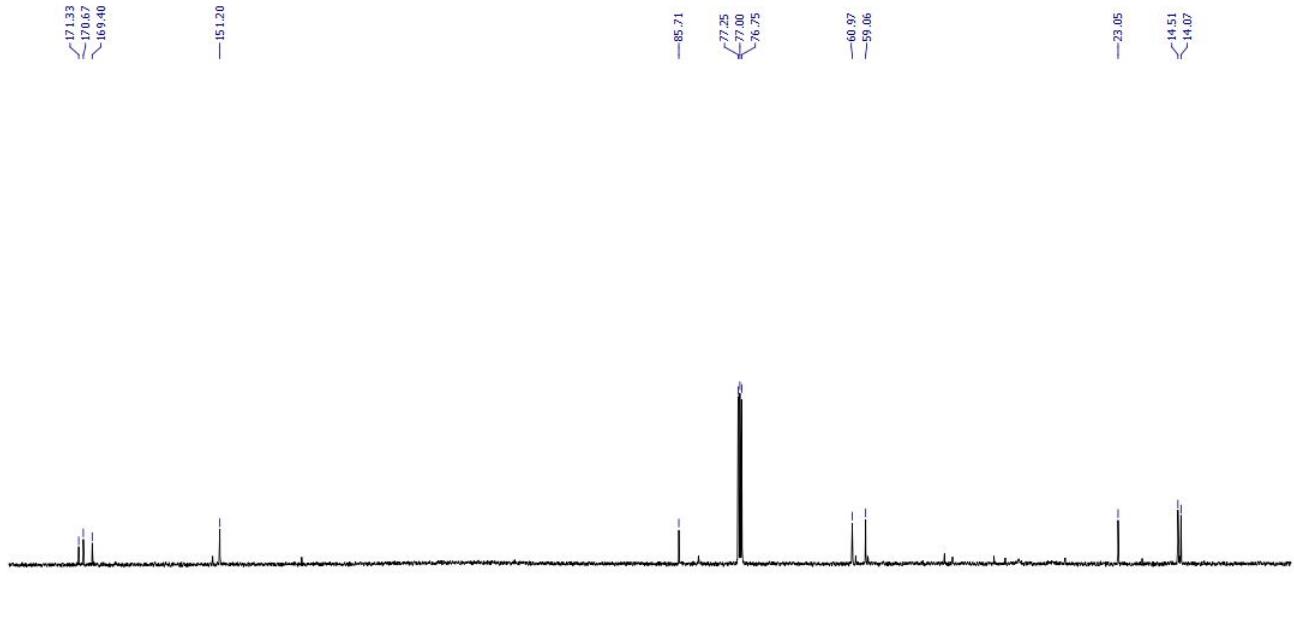
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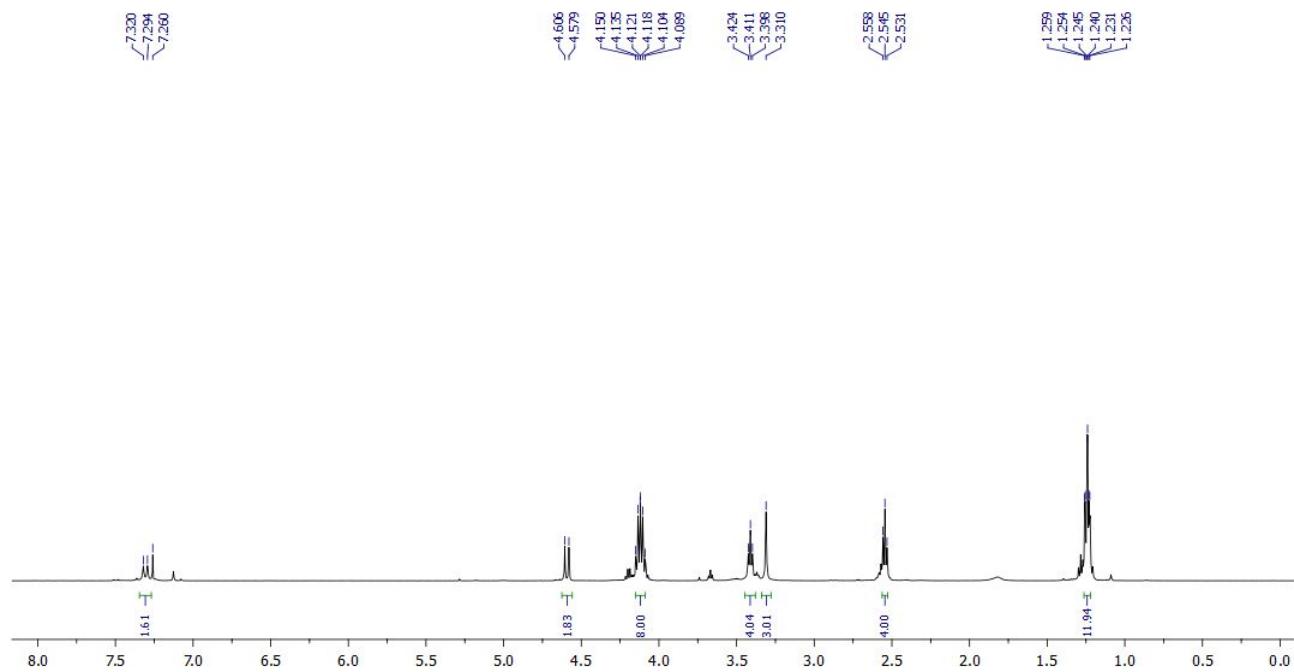
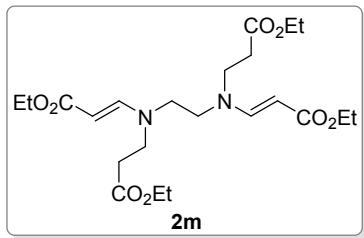
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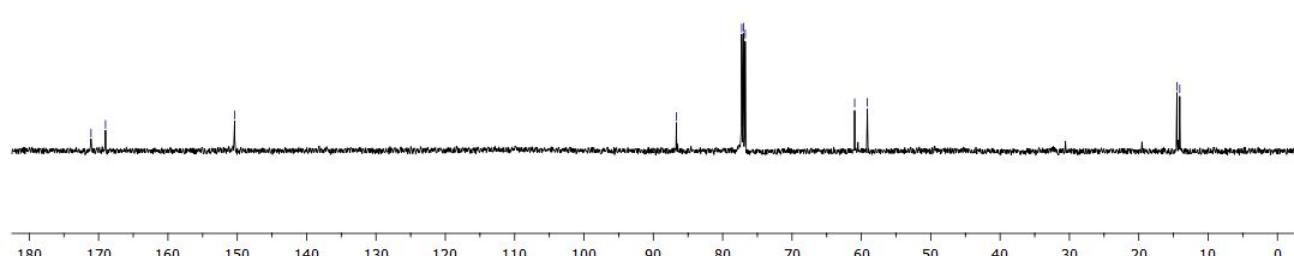
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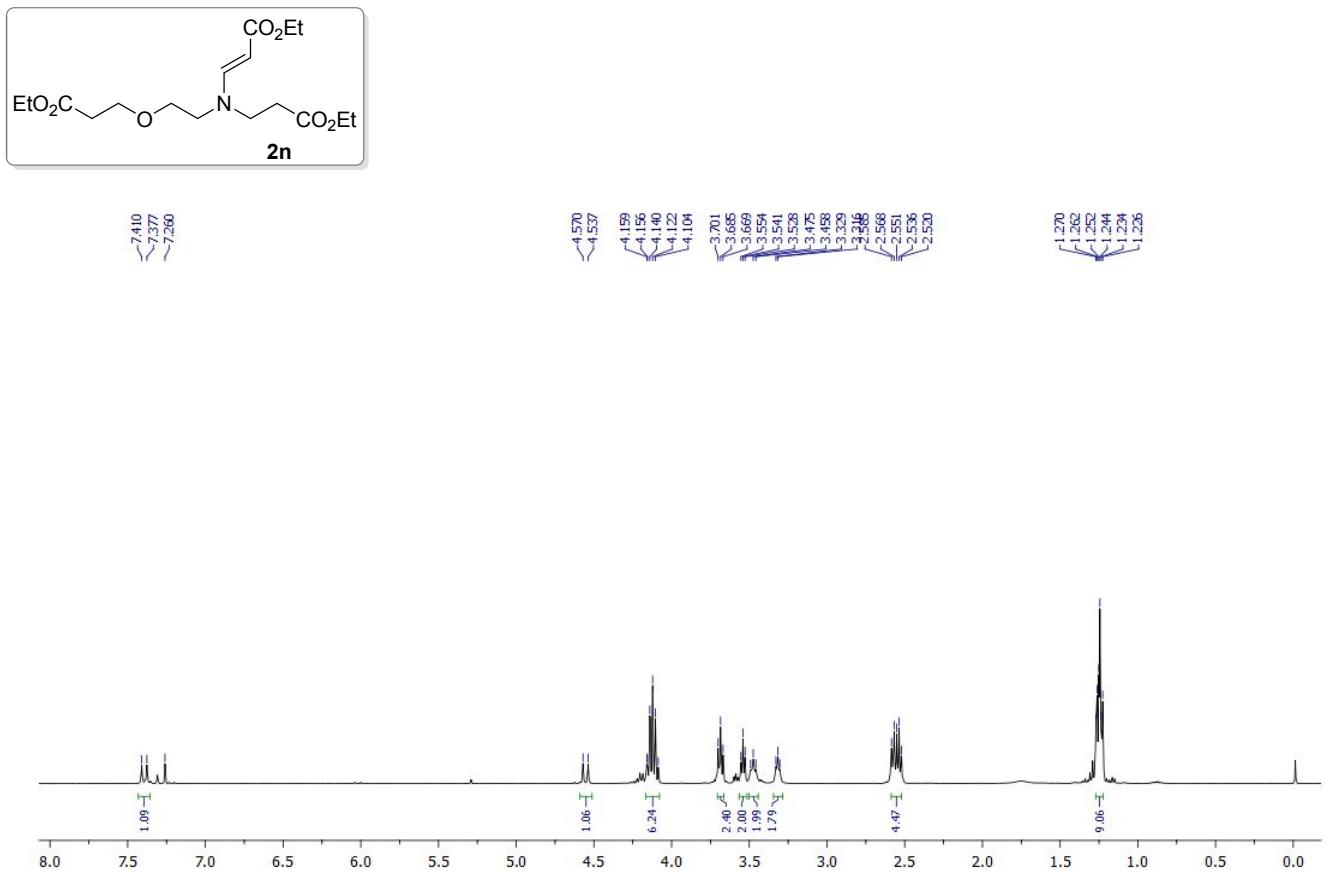
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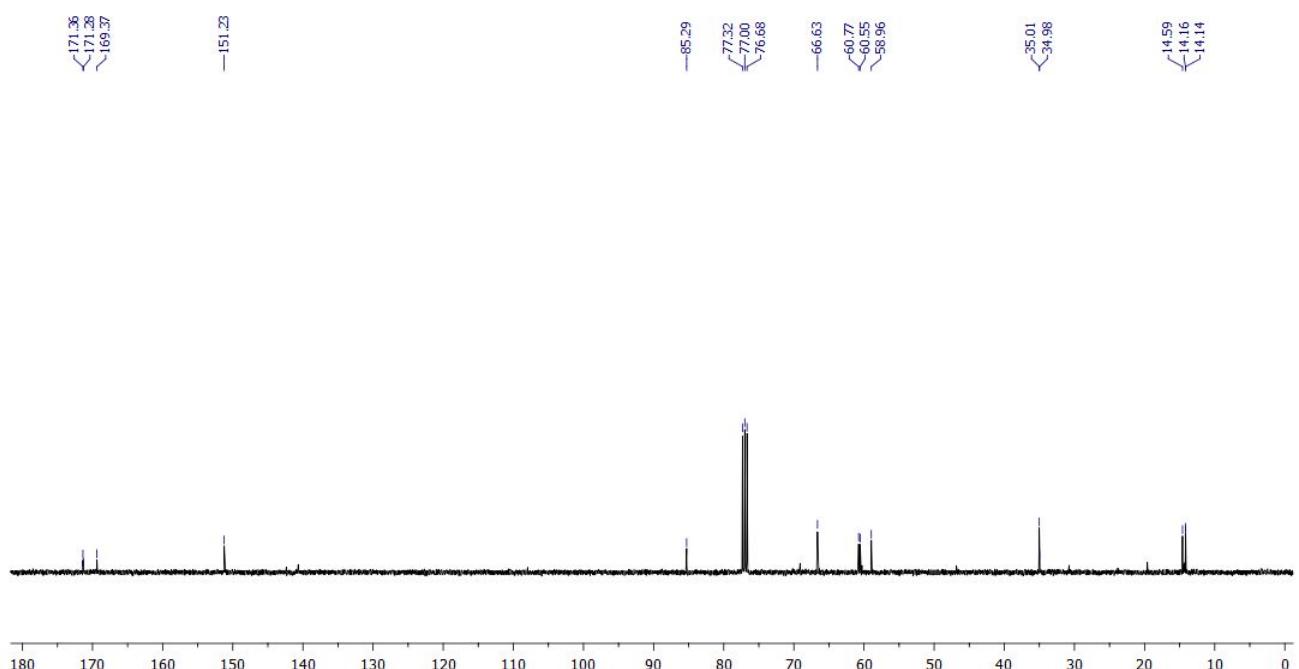
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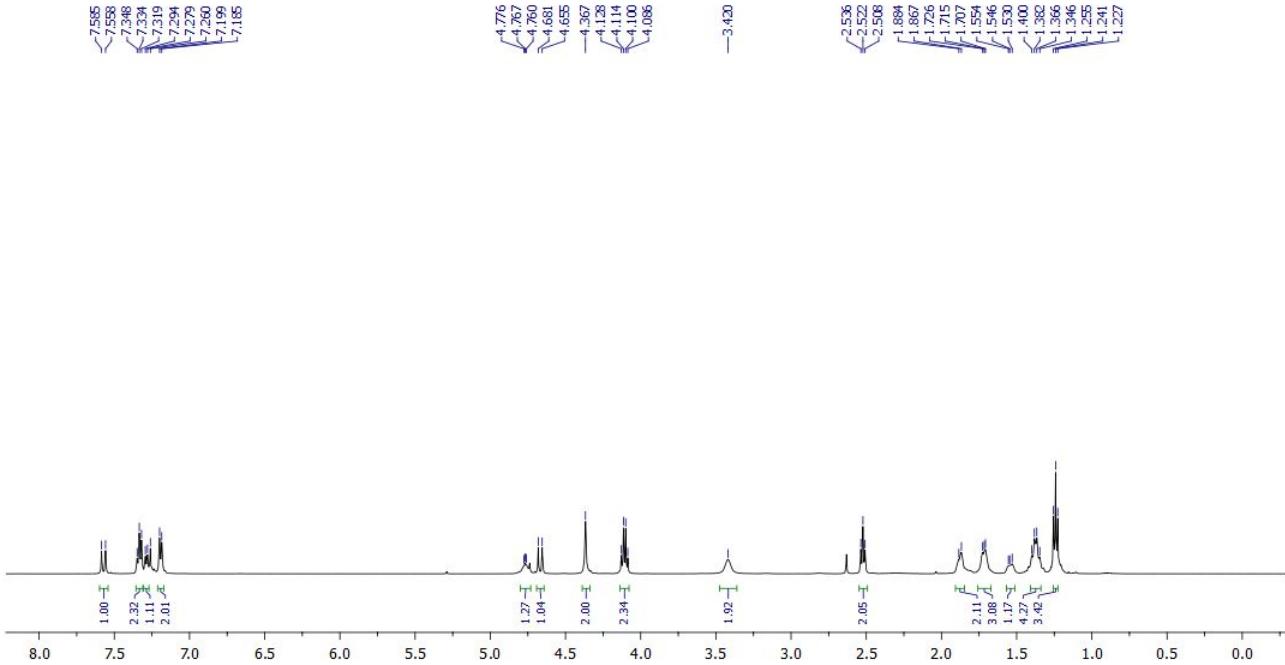
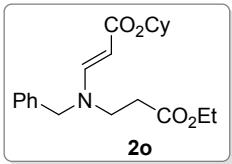
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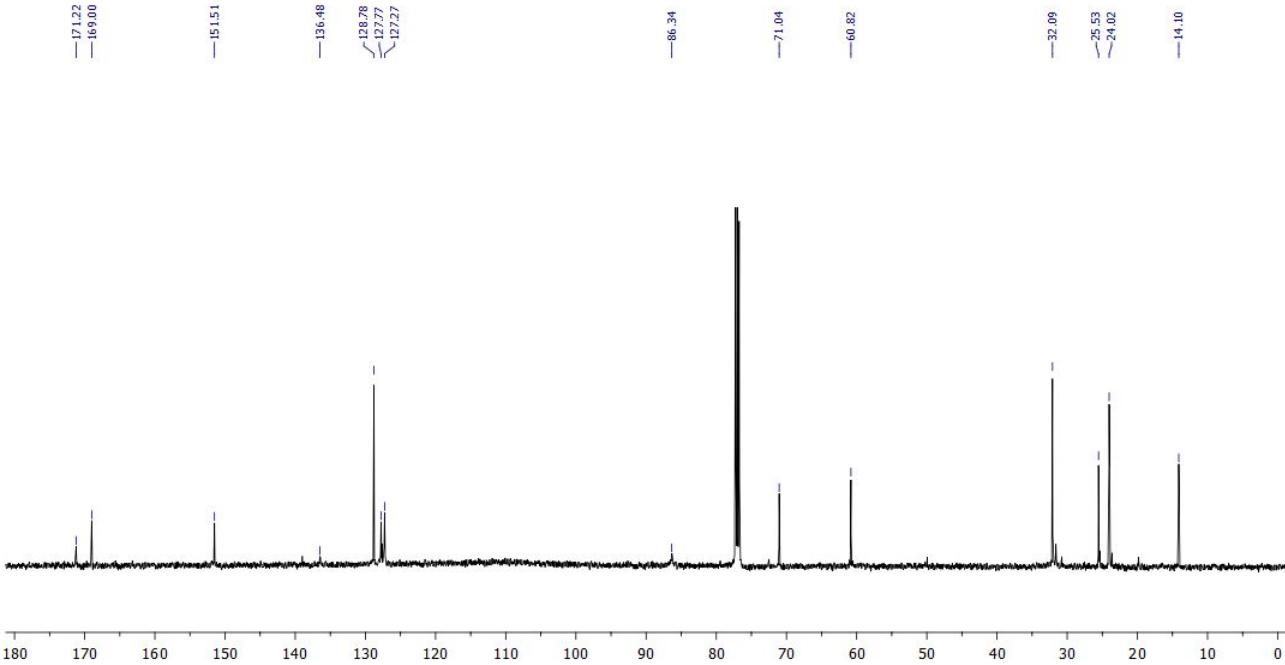
¹H NMR (400.1 MHz, CDCl₃)



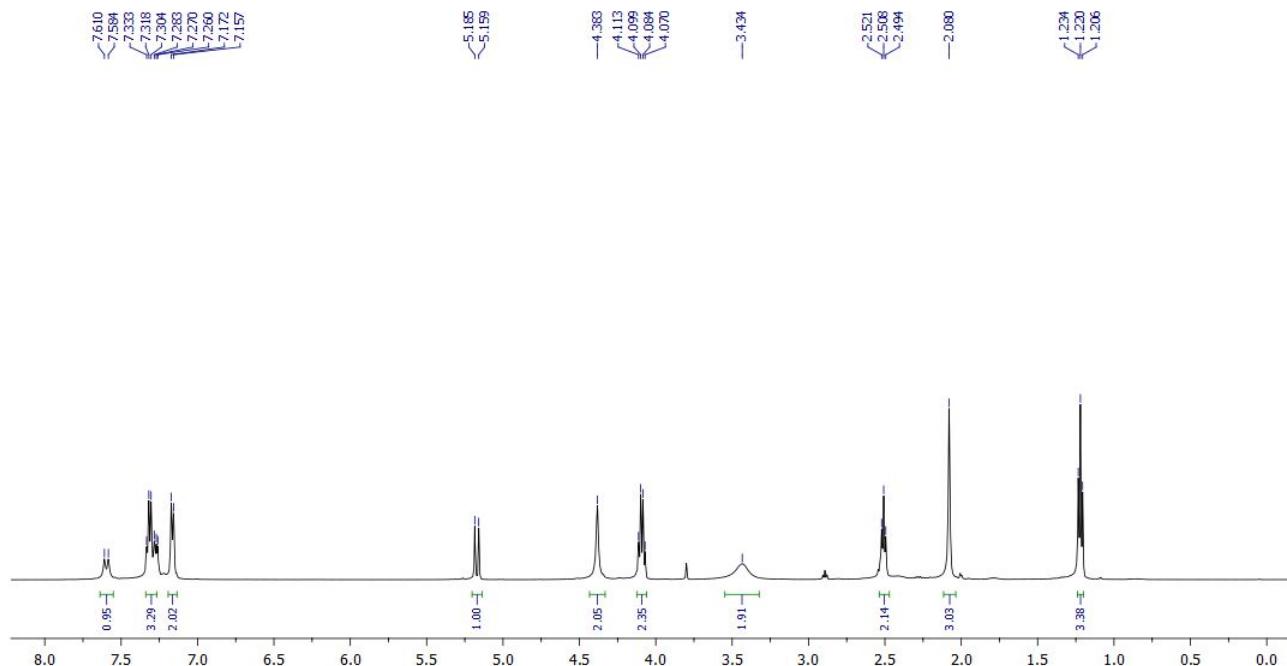
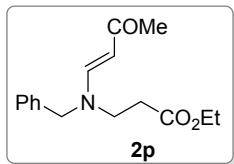
¹³C NMR (100.6 MHz, CDCl₃)



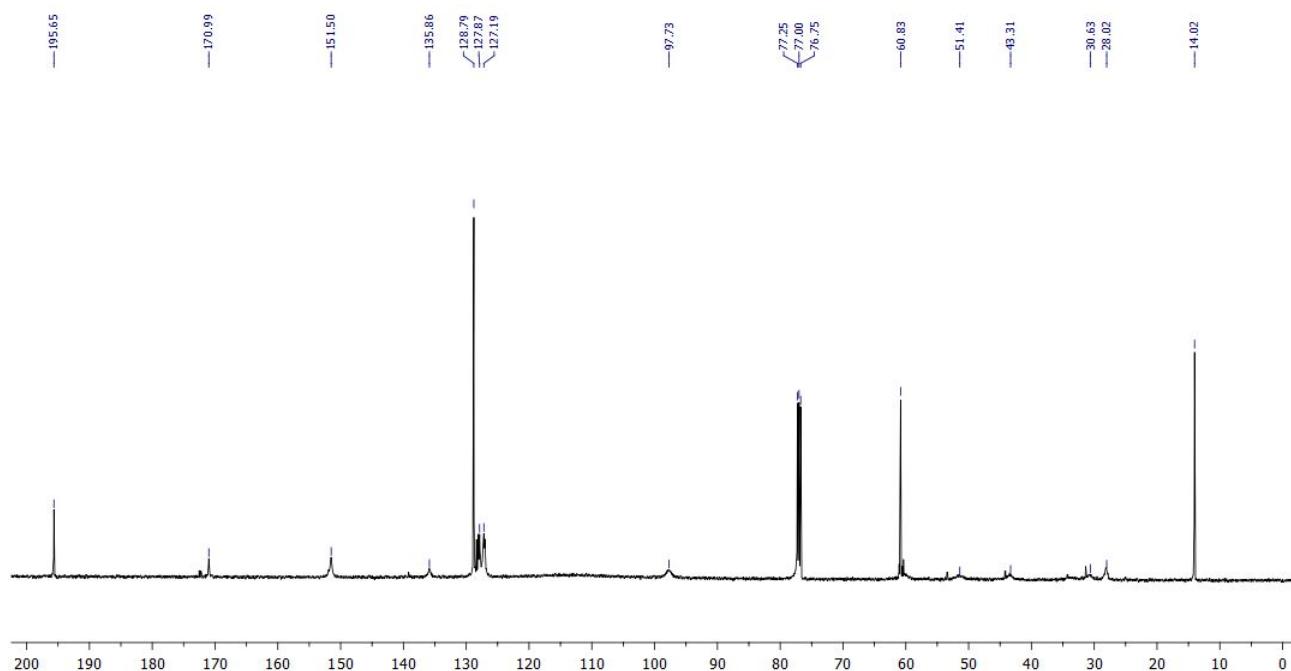
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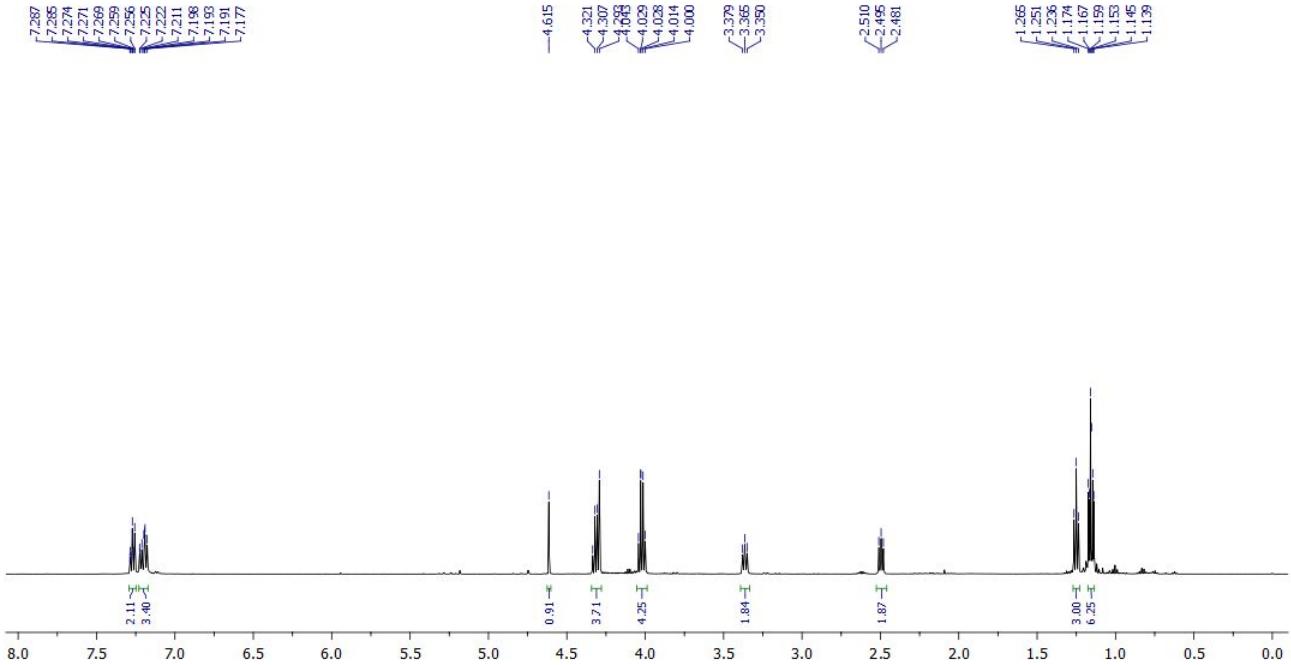
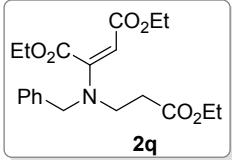
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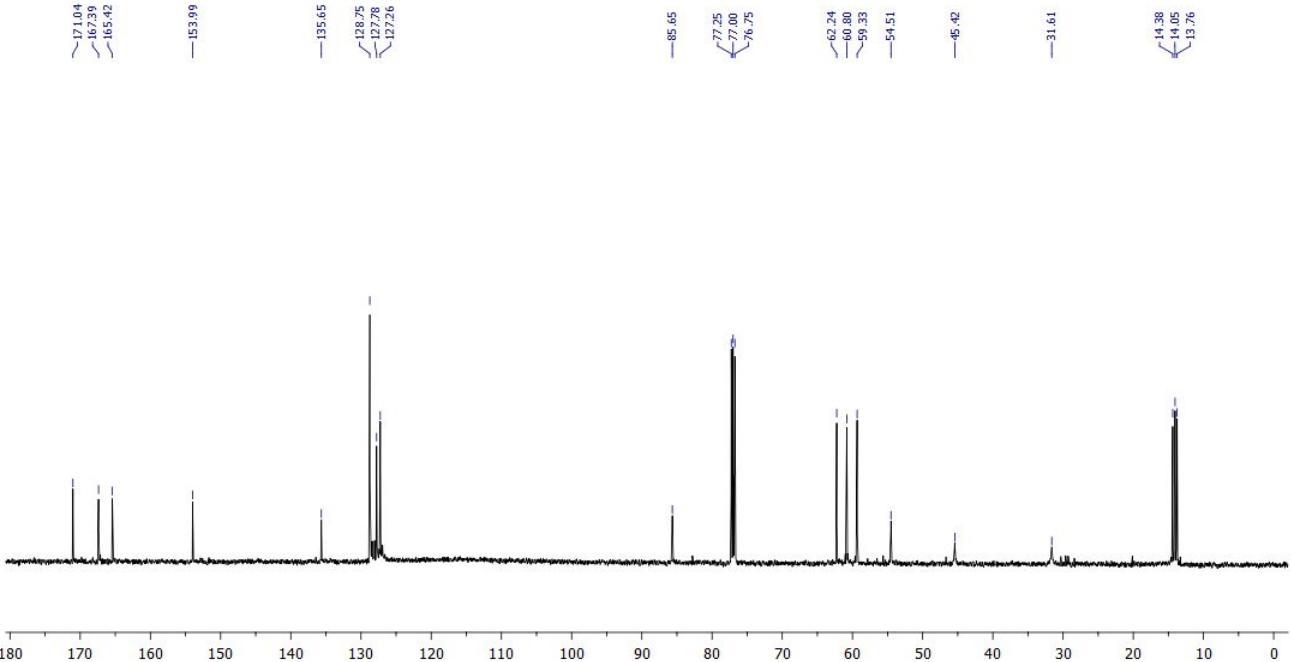
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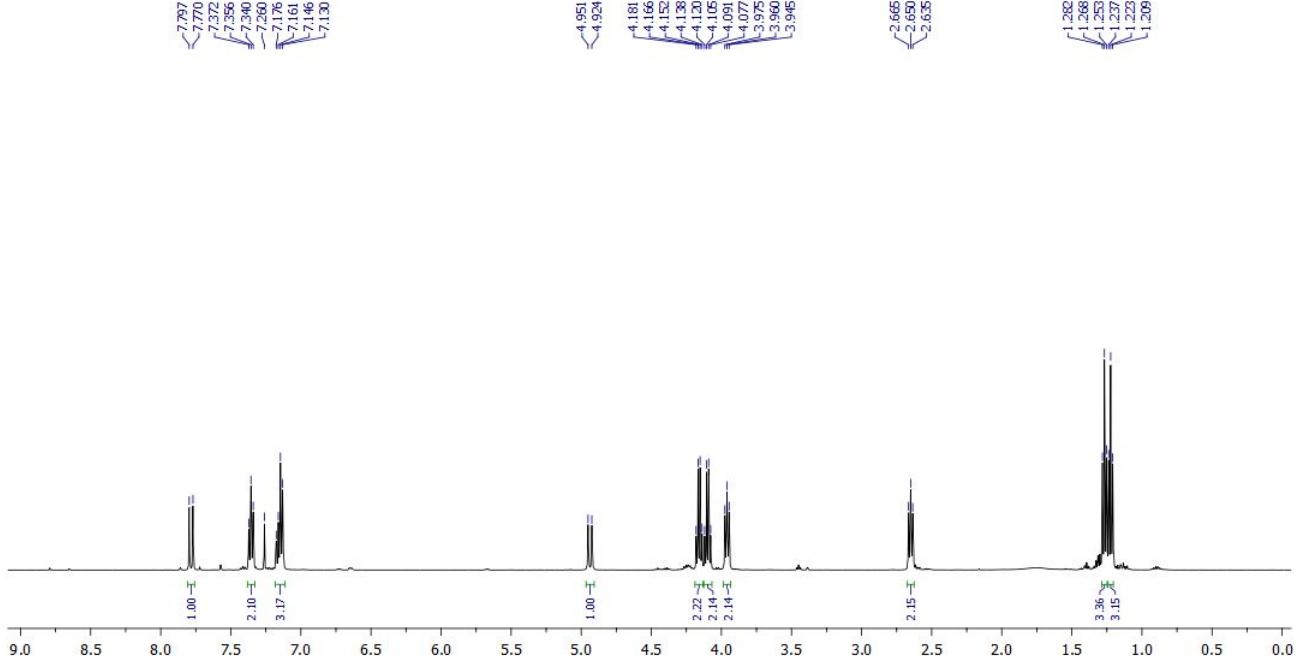
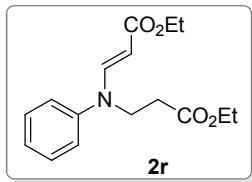
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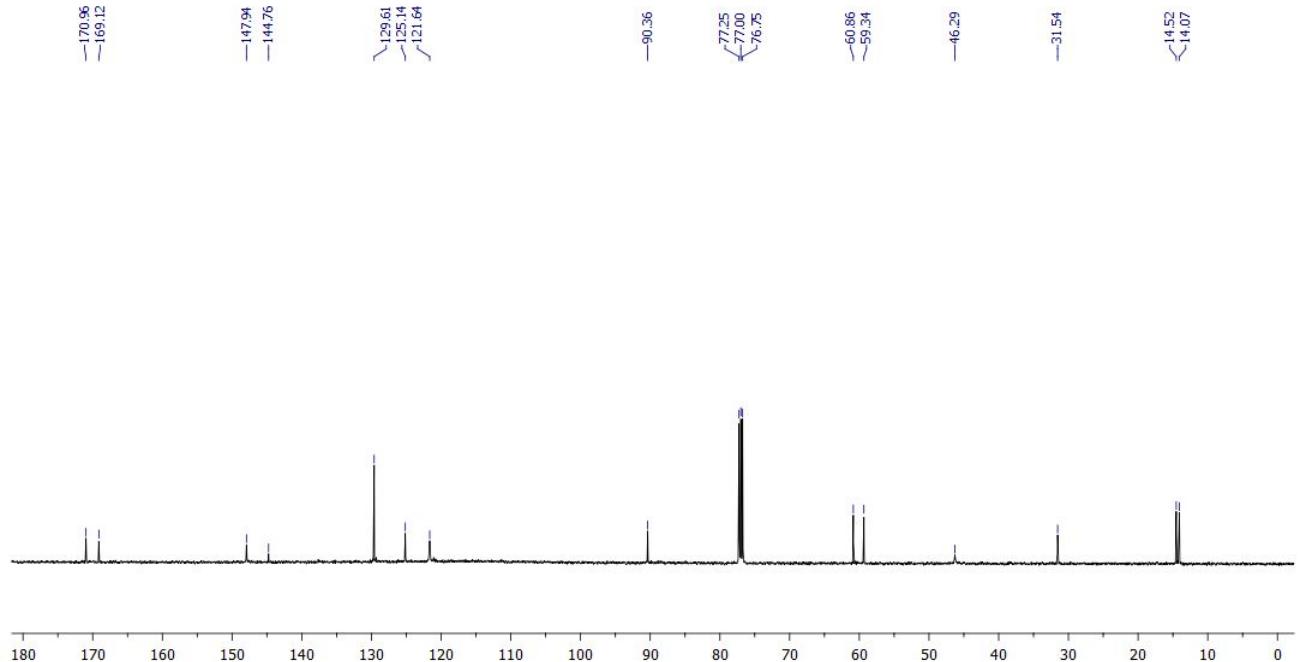
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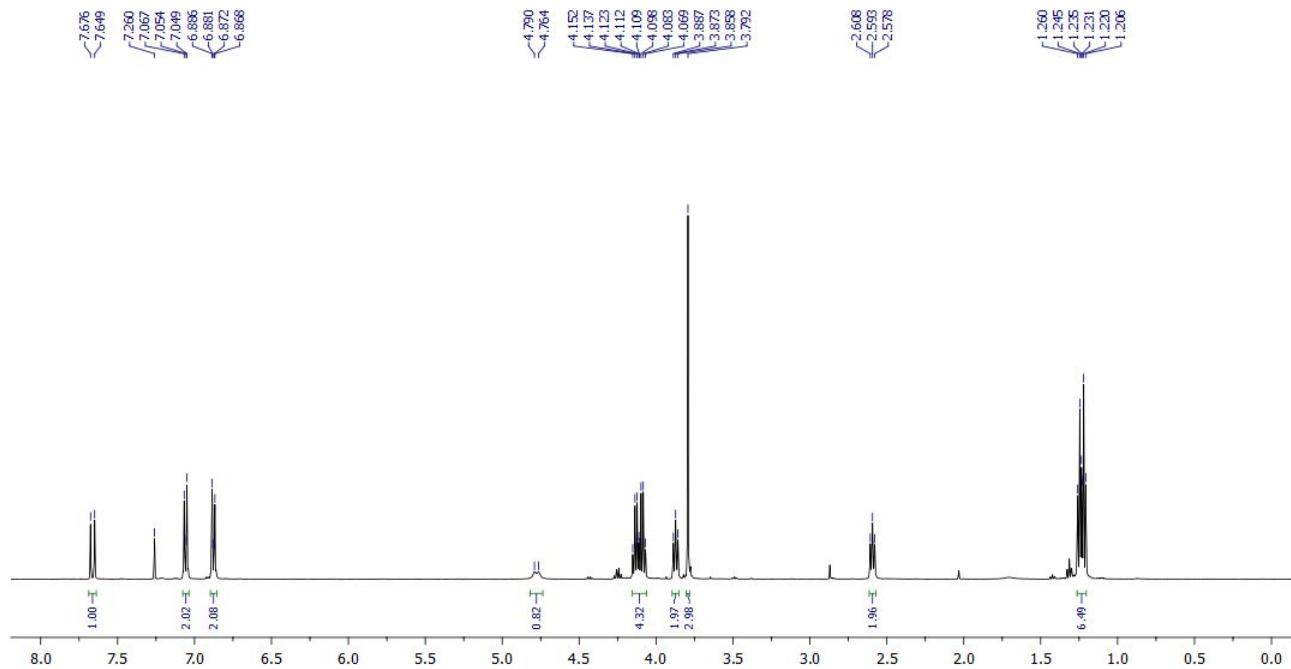
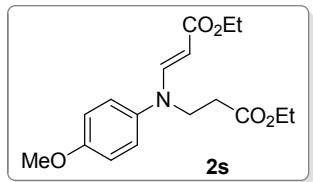
¹³C NMR (125.8 MHz, CDCl₃)



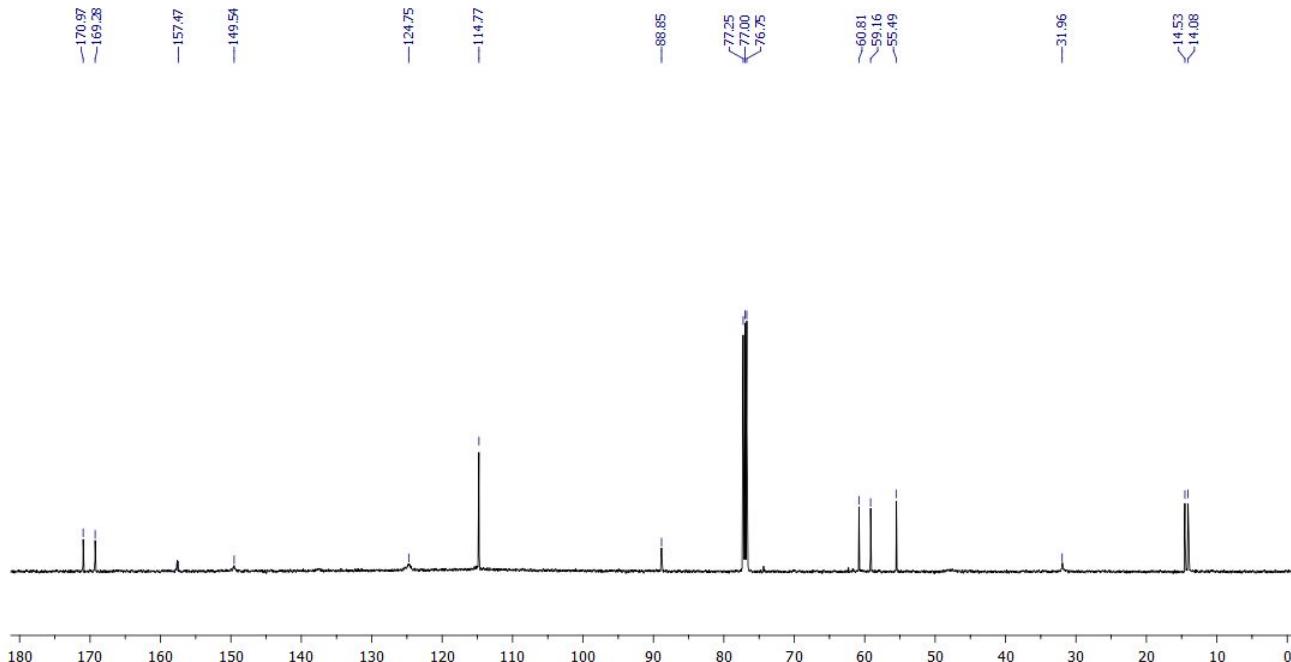
¹H NMR (500.3 MHz, CDCl₃)



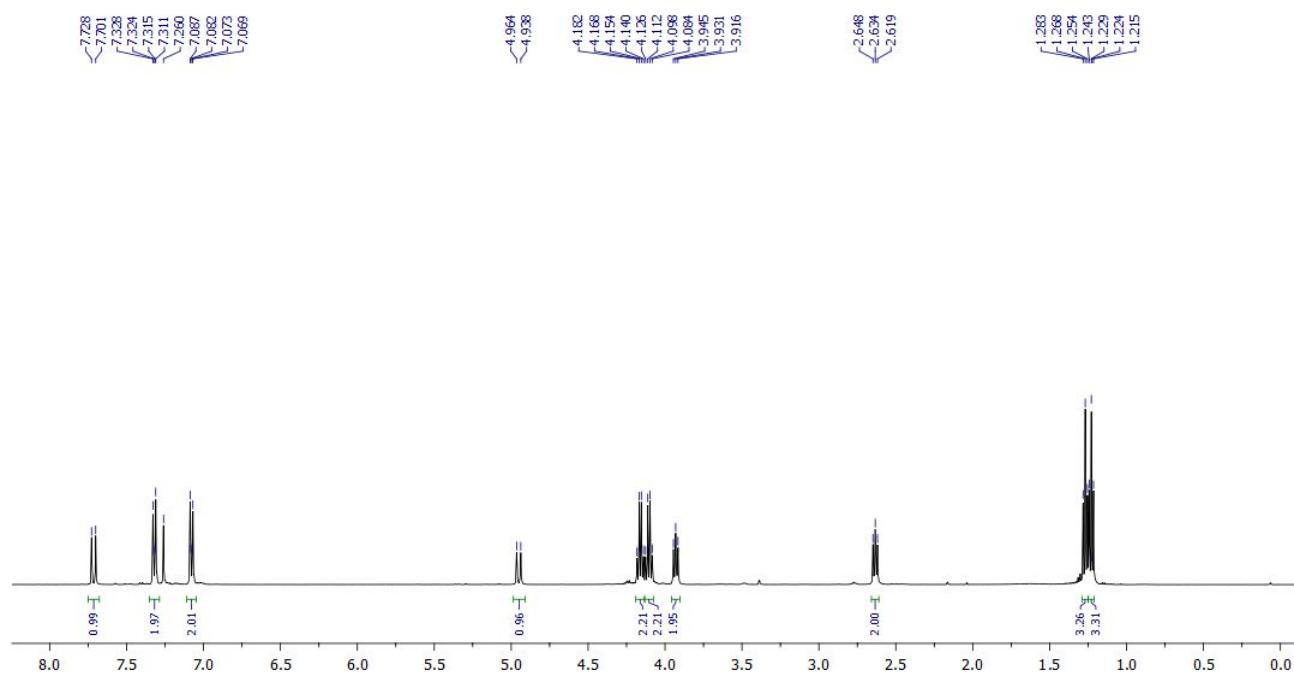
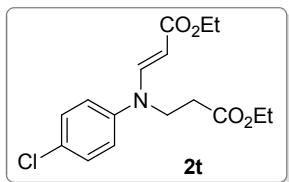
¹³C NMR (125.8 MHz, CDCl₃)



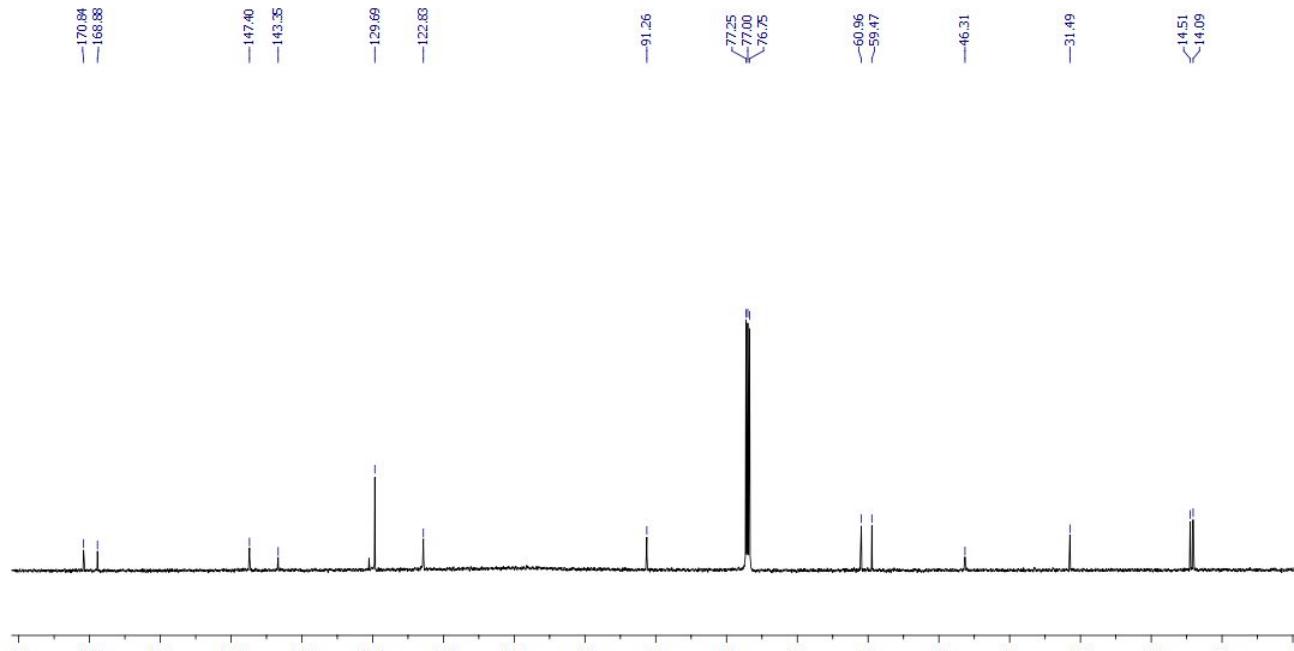
¹H NMR (500.3 MHz, CDCl_3)



¹³C NMR (125.8 MHz, CDCl_3)

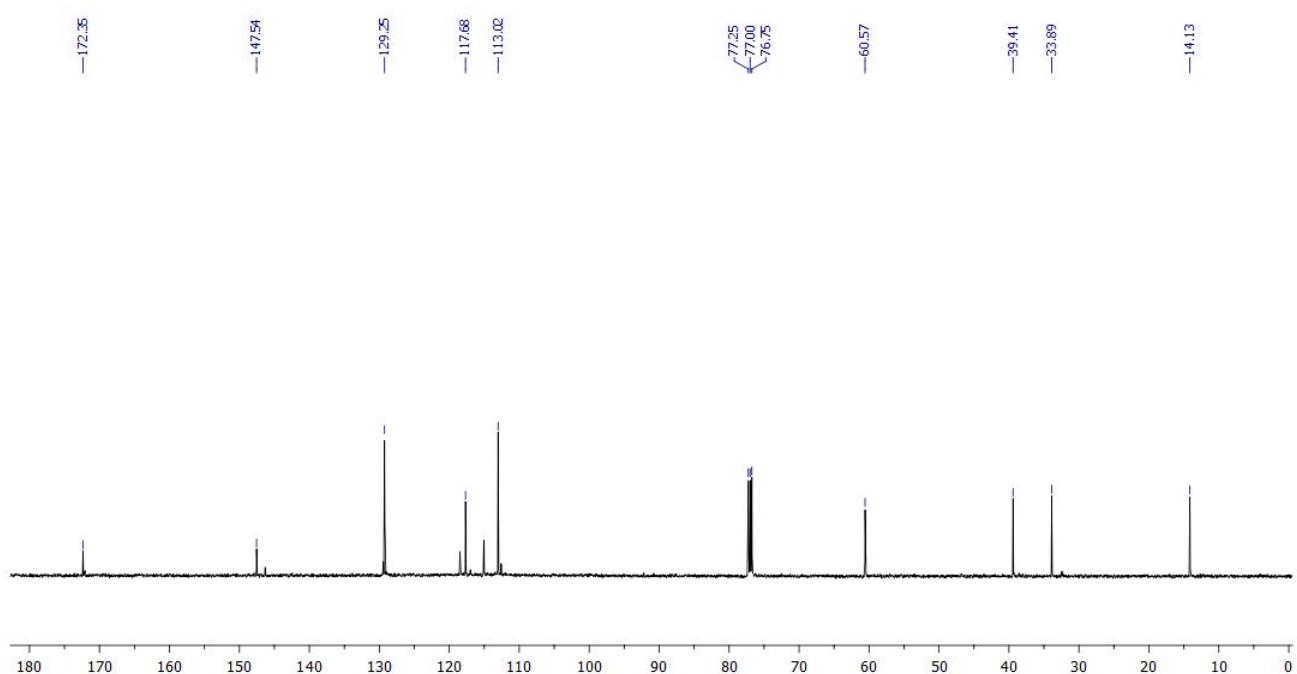
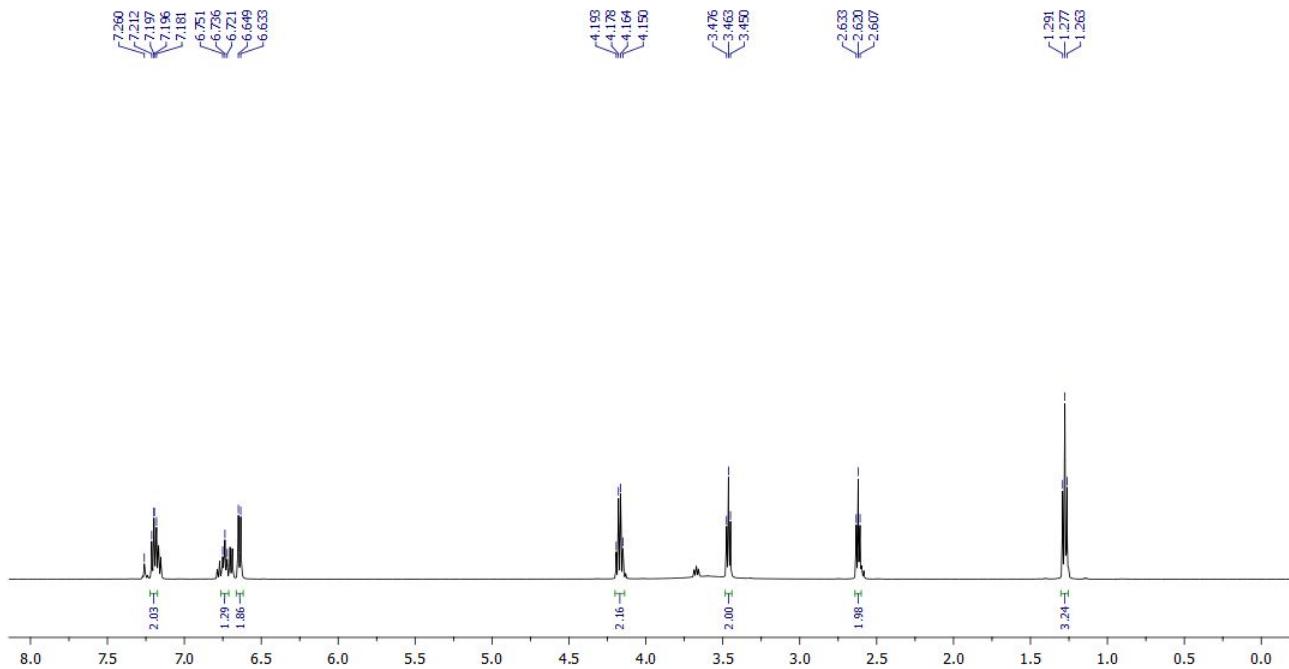
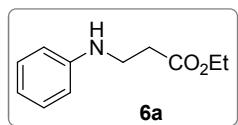


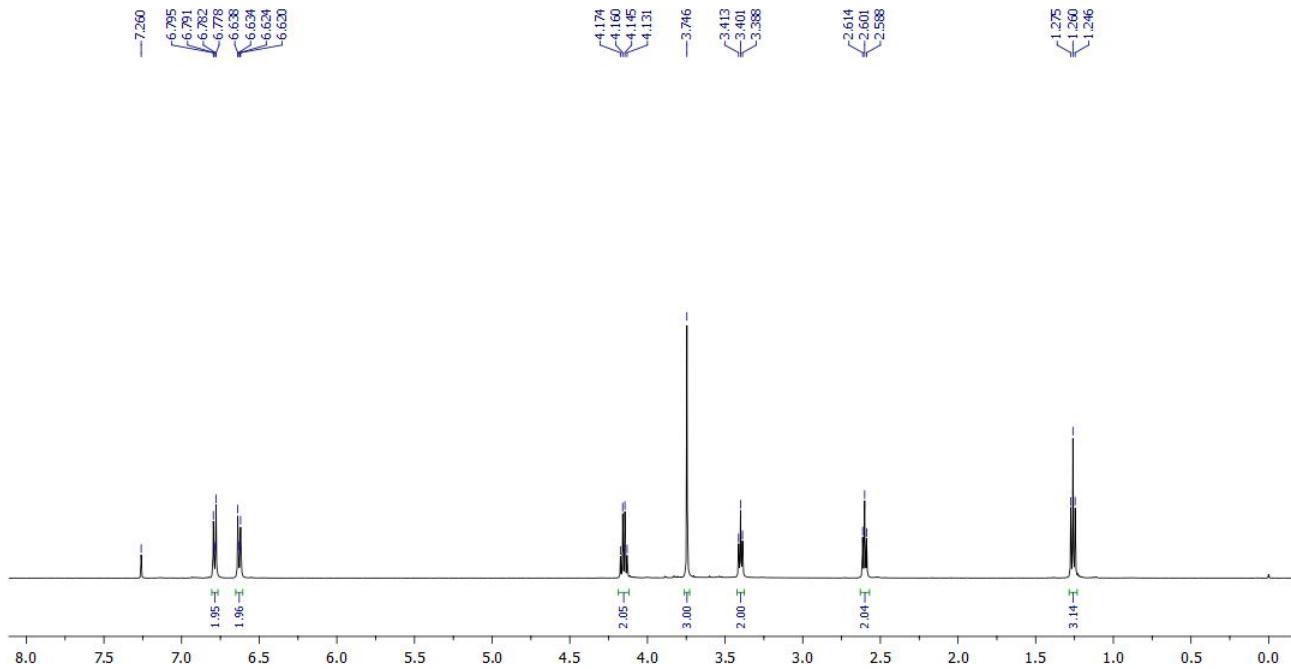
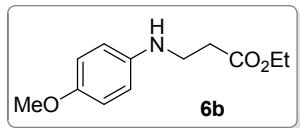
¹H NMR (500.3 MHz, CDCl₃)



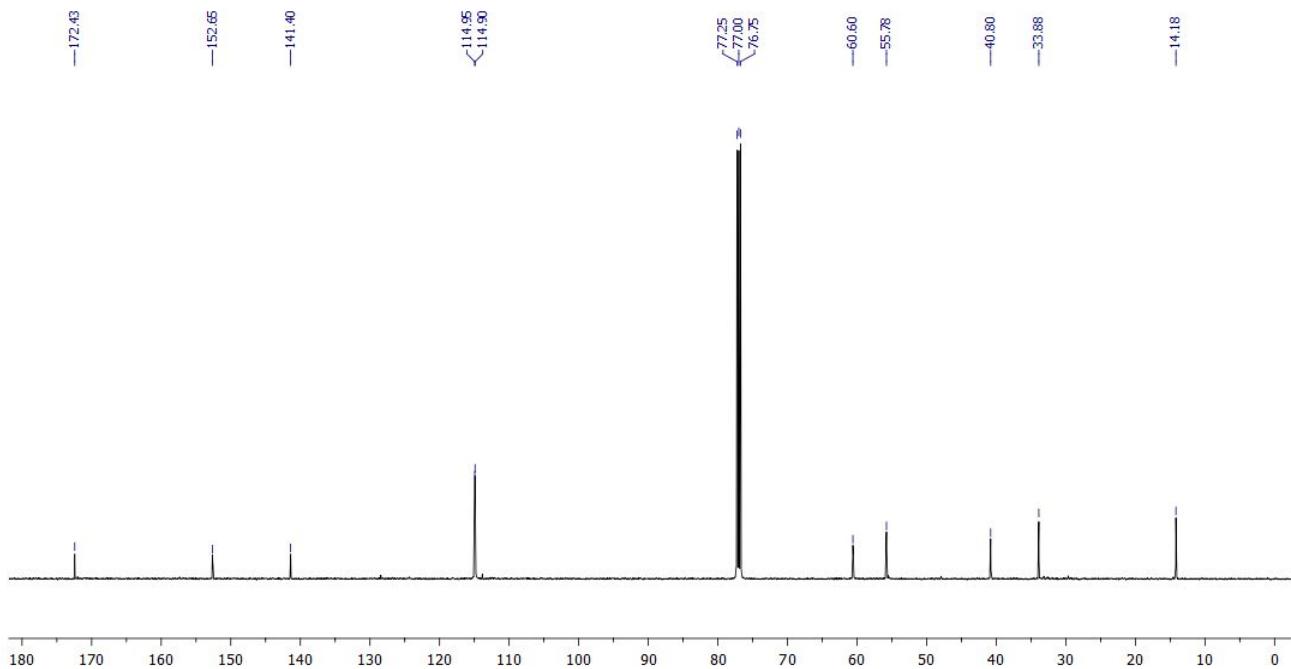
¹³C NMR (125.8 MHz, CDCl₃)

Compounds 6

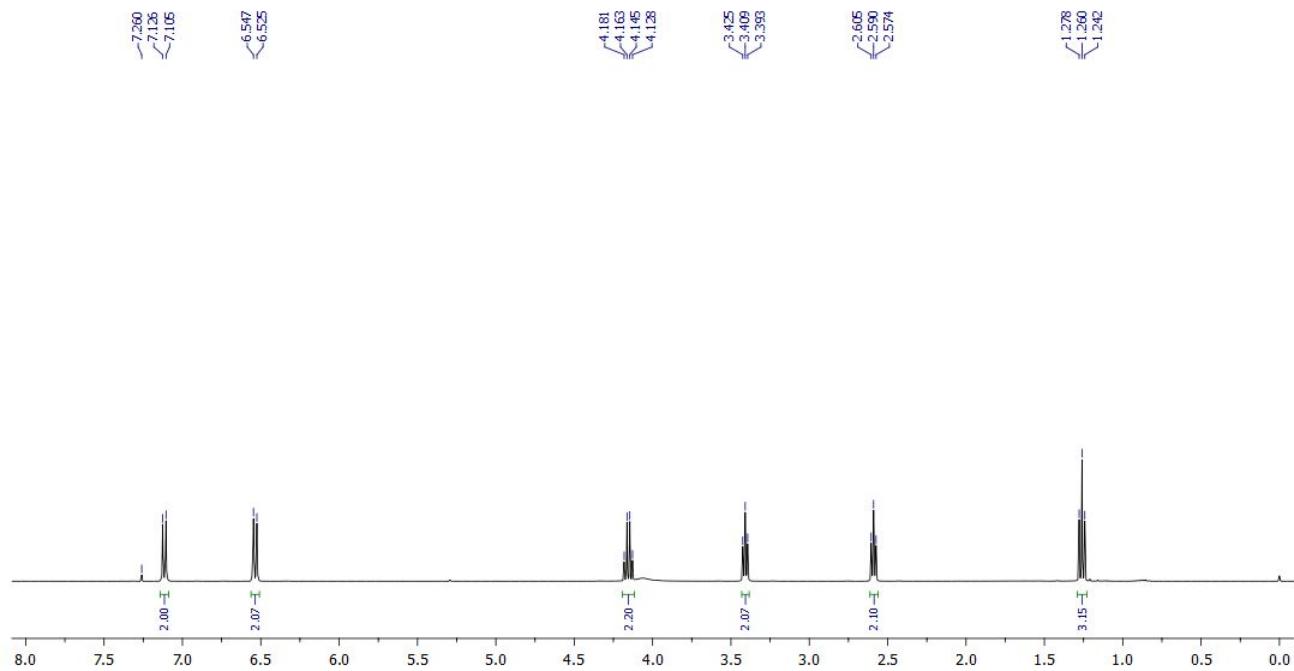
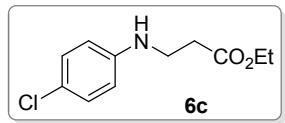




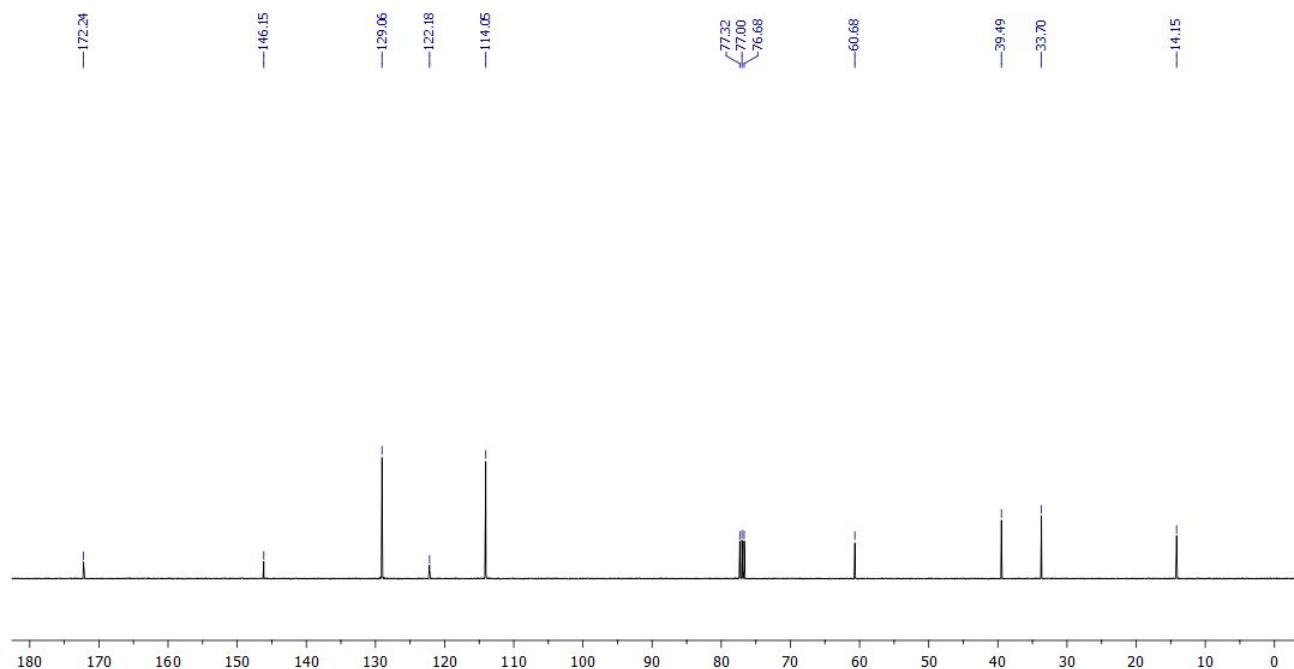
¹H NMR (500.3 MHz, CDCl₃)



¹³C NMR (125.8 MHz, CDCl₃)

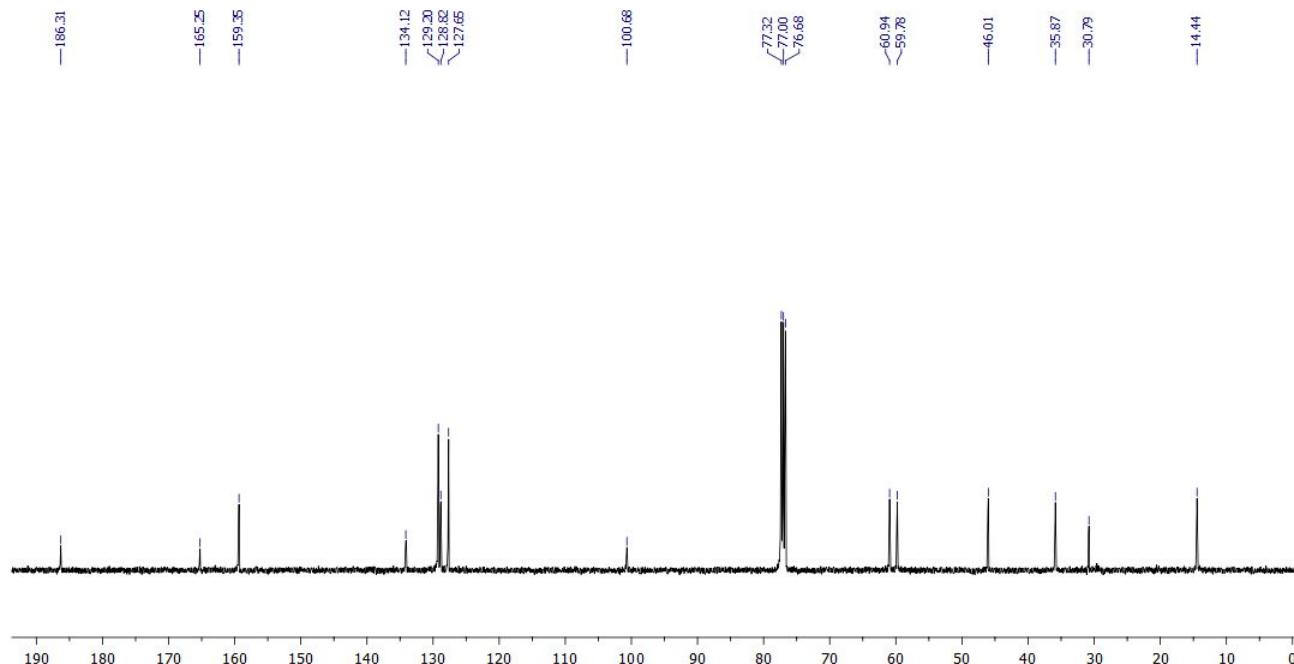
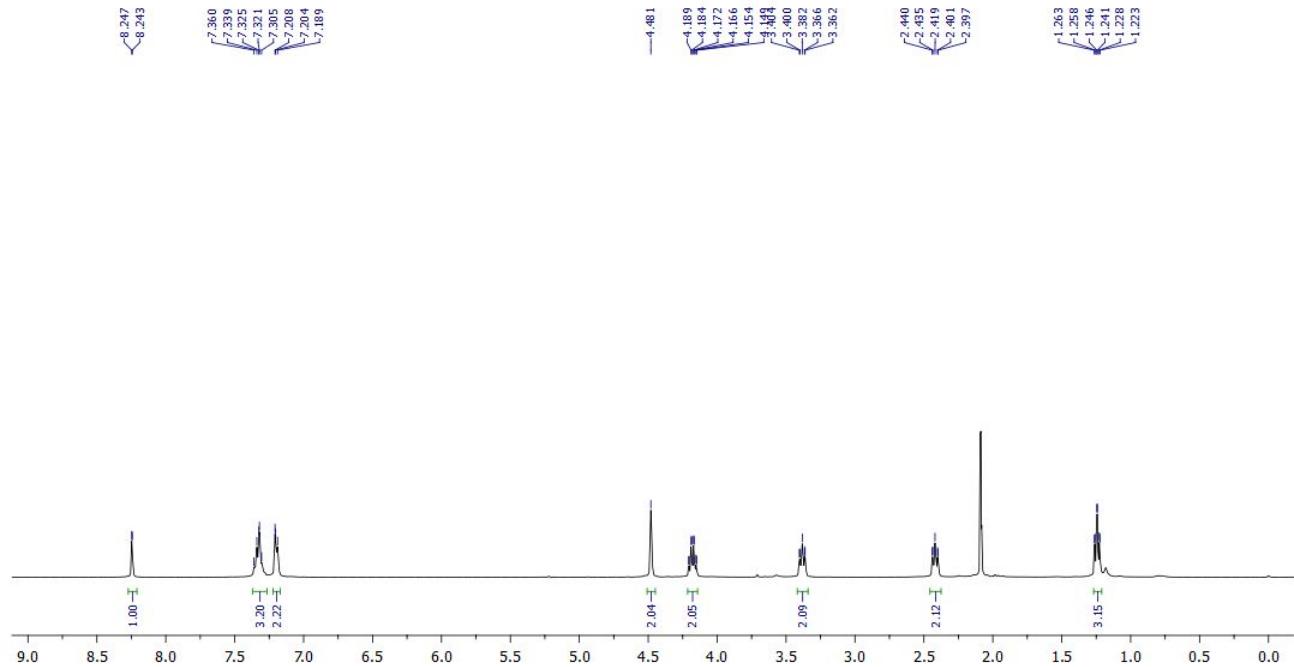
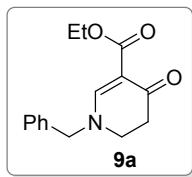


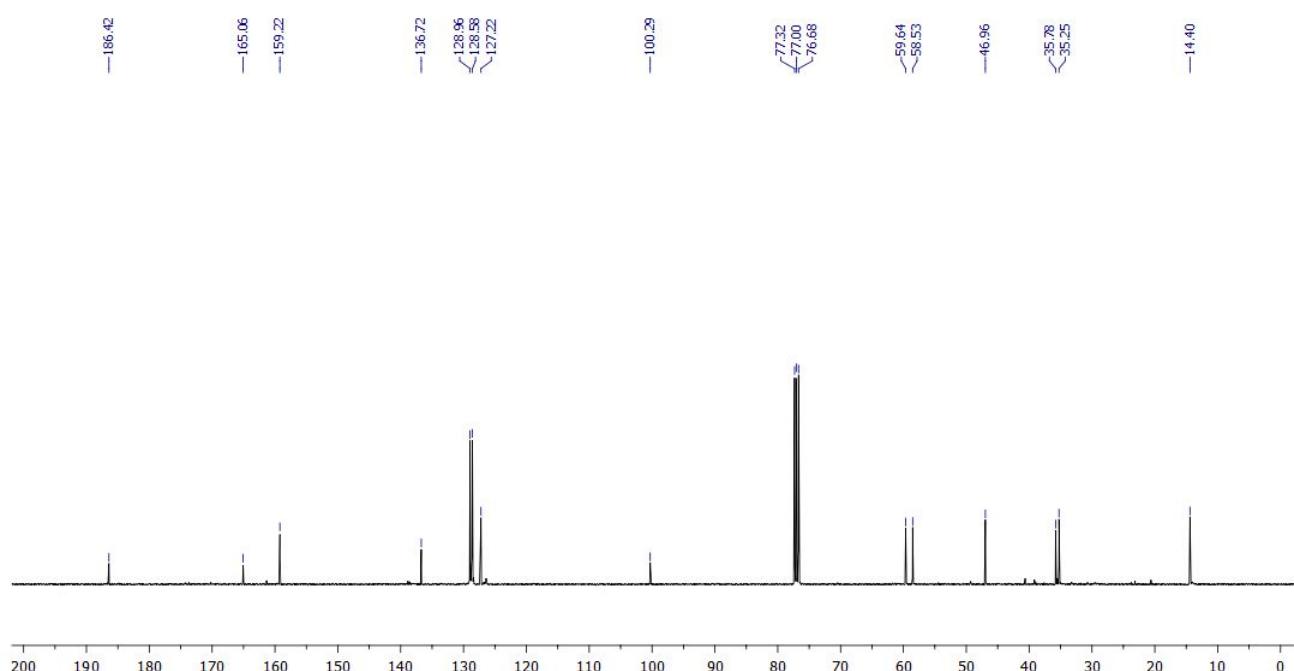
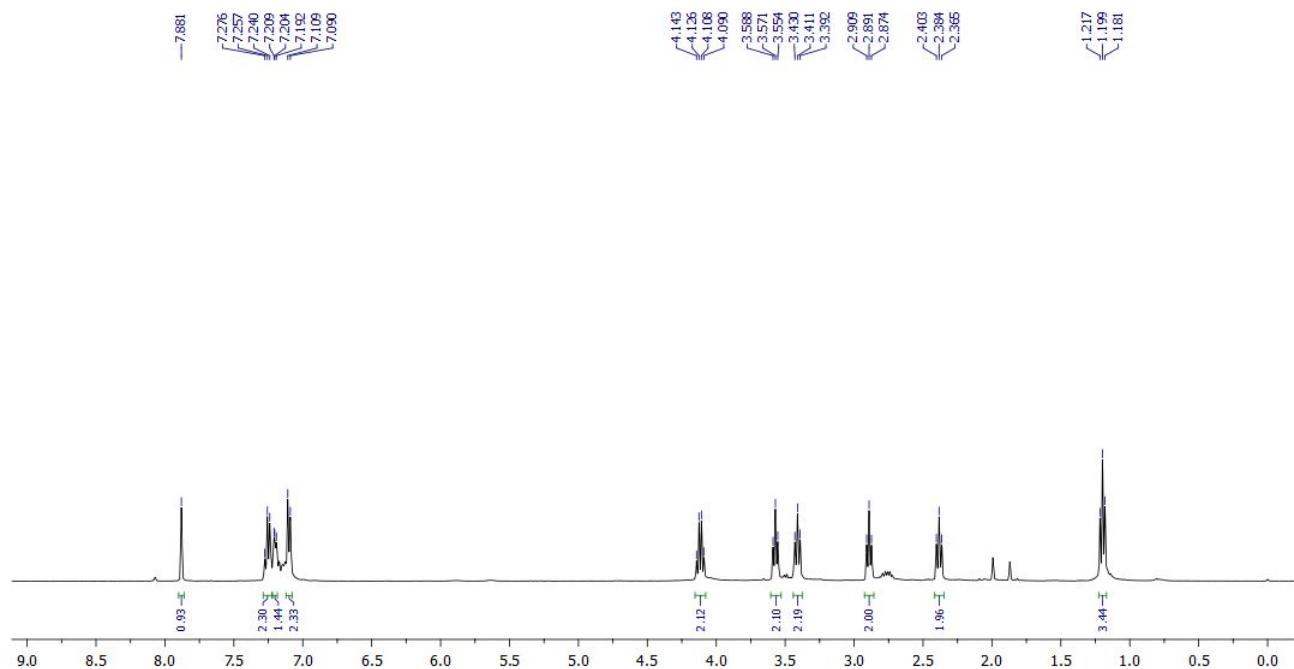
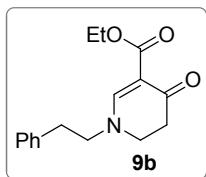
¹H NMR (400.1 MHz, CDCl₃)

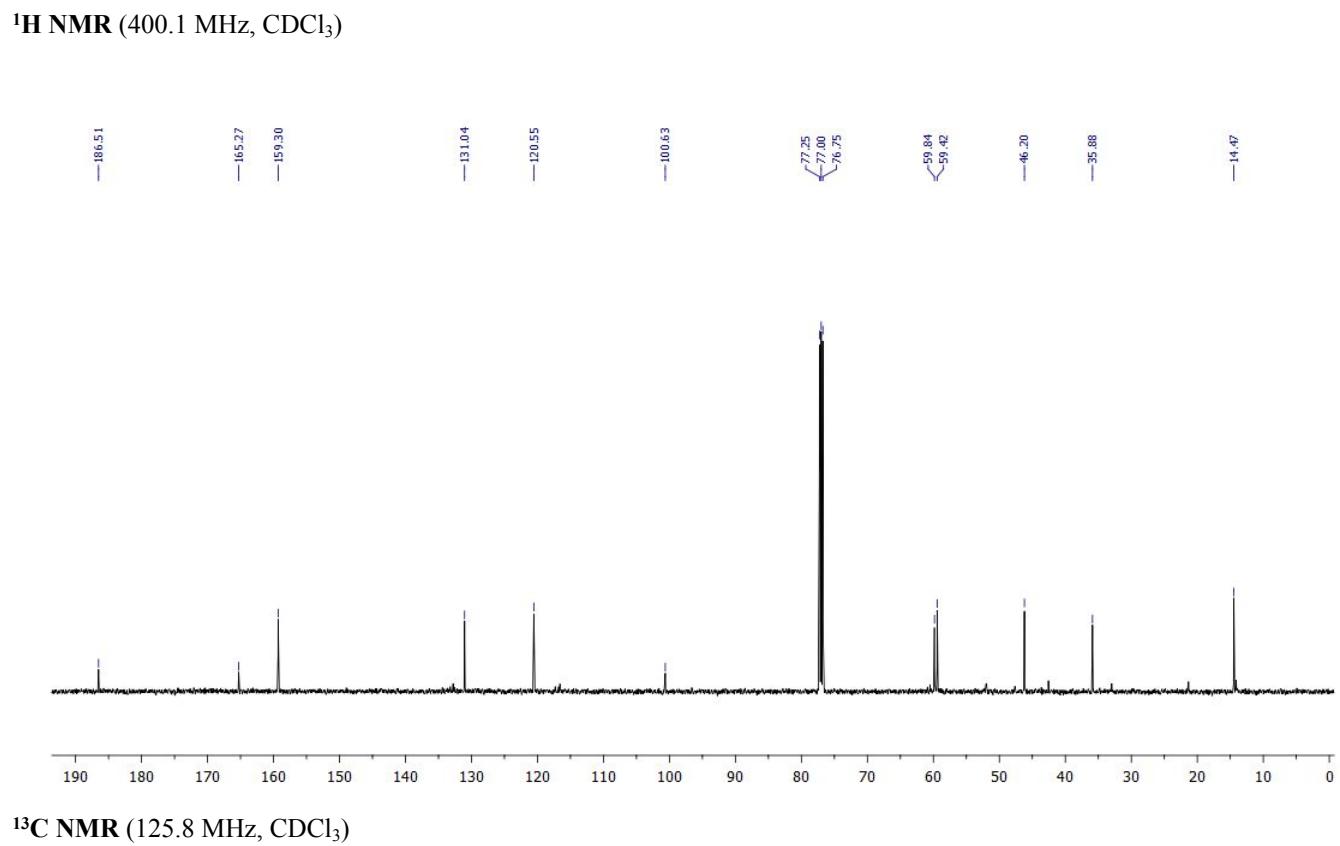
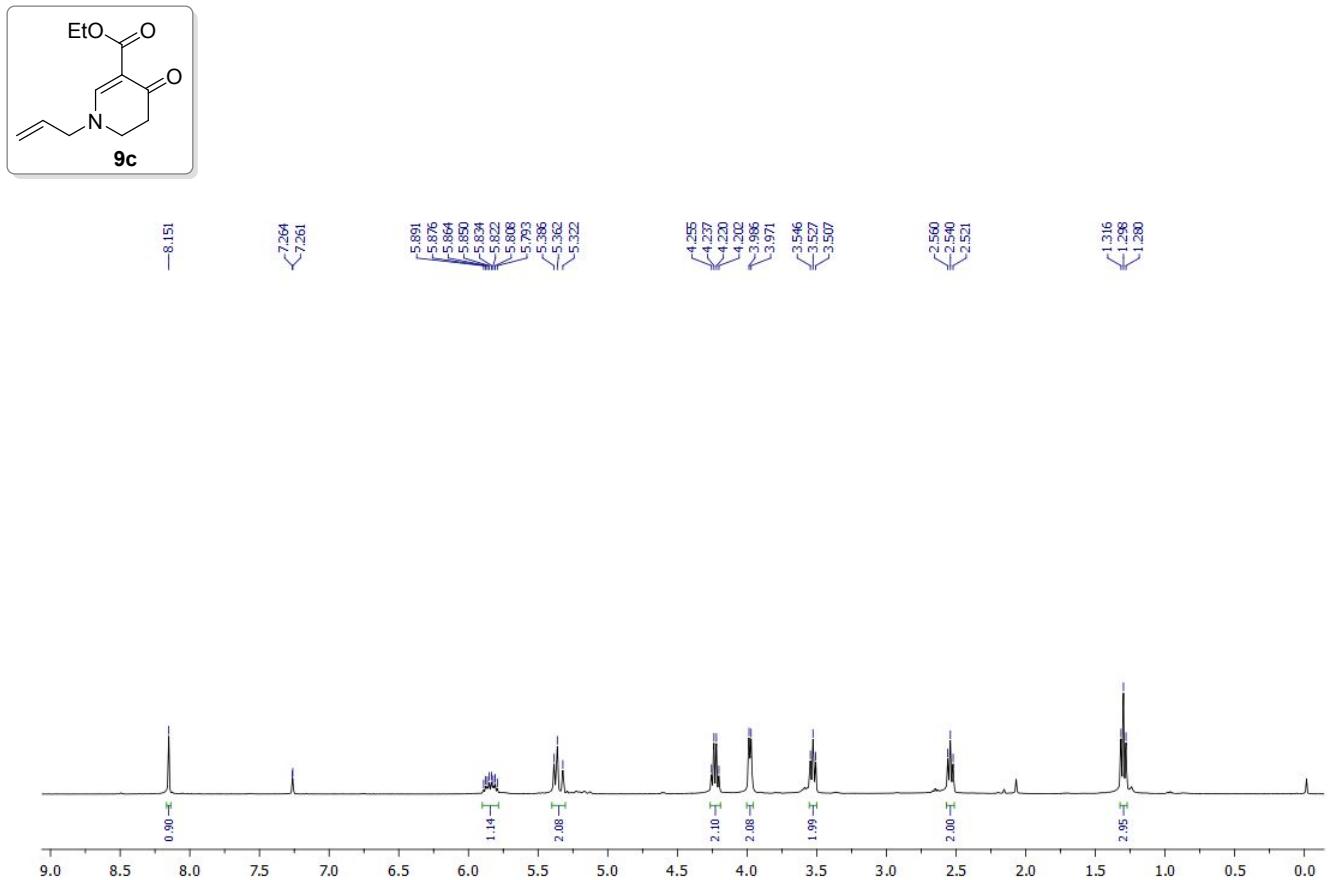


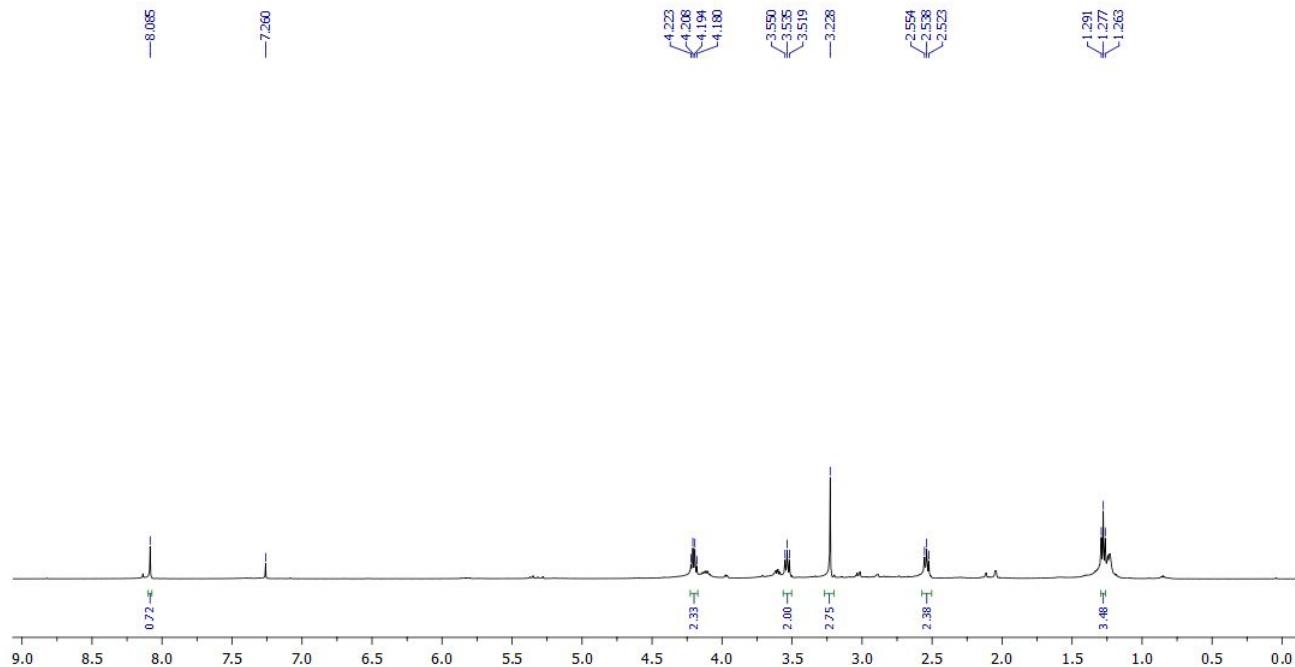
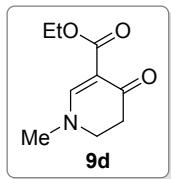
¹³C NMR (100.6 MHz, CDCl₃)

2,3-Dihydro-4-pyridones 9

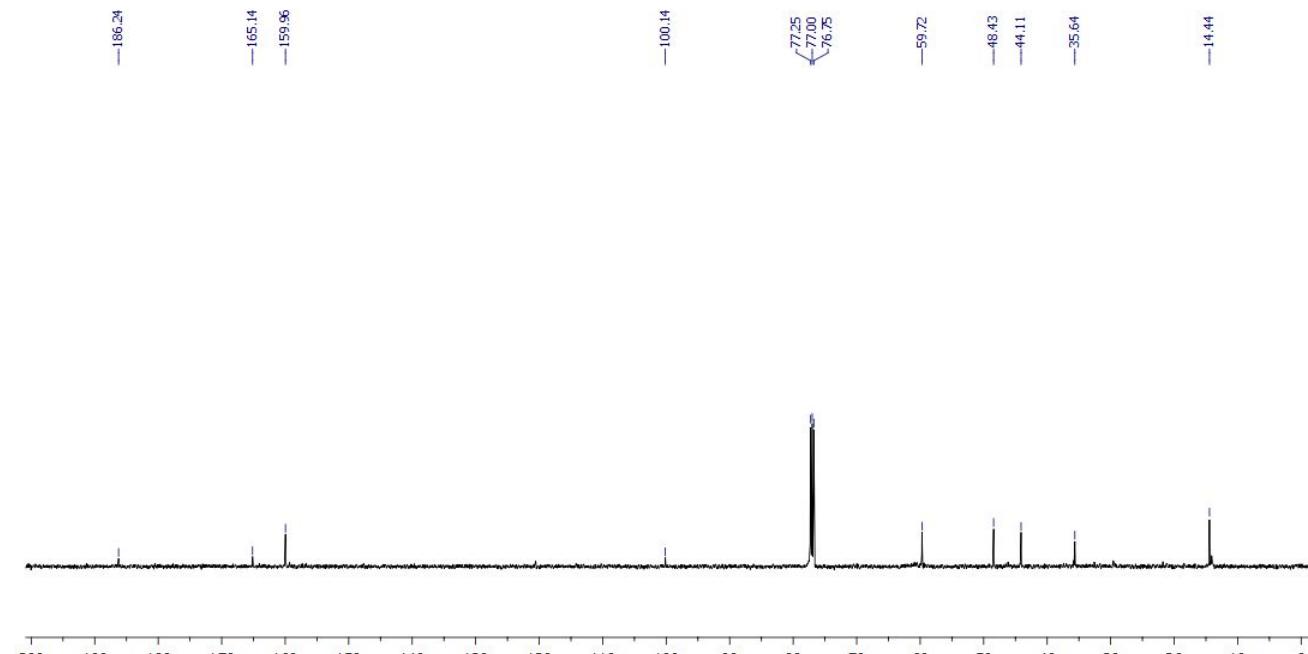




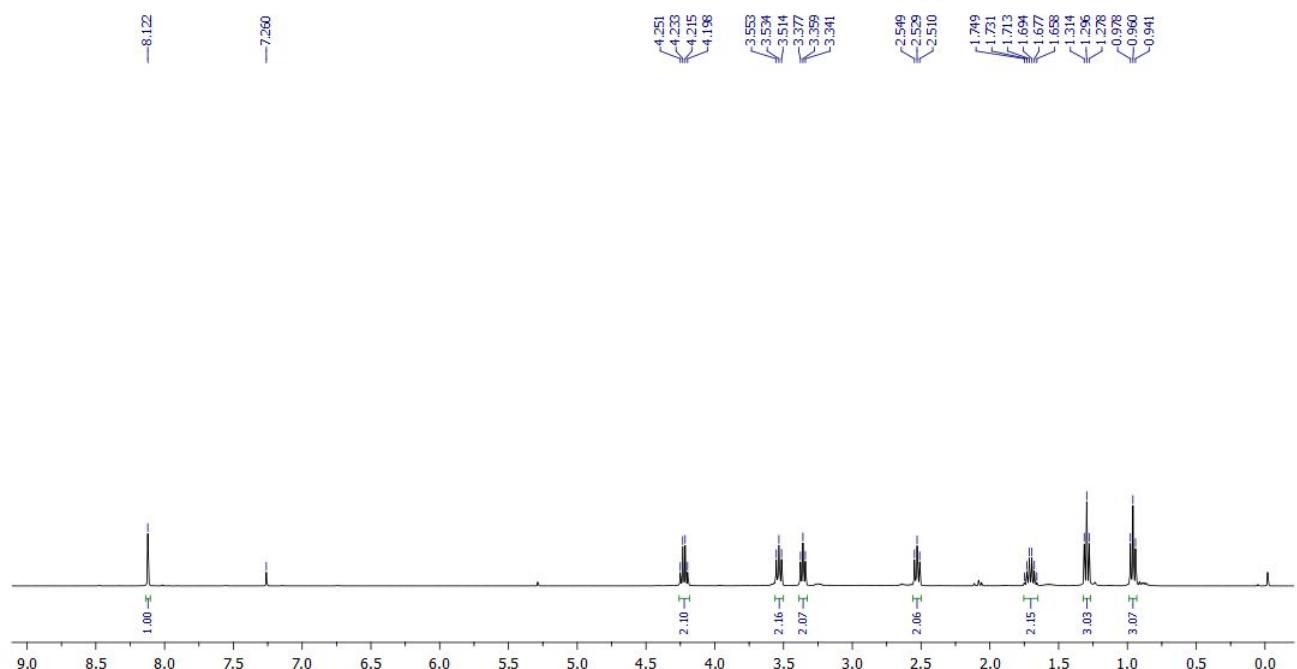
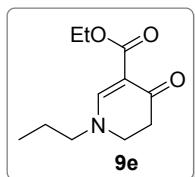




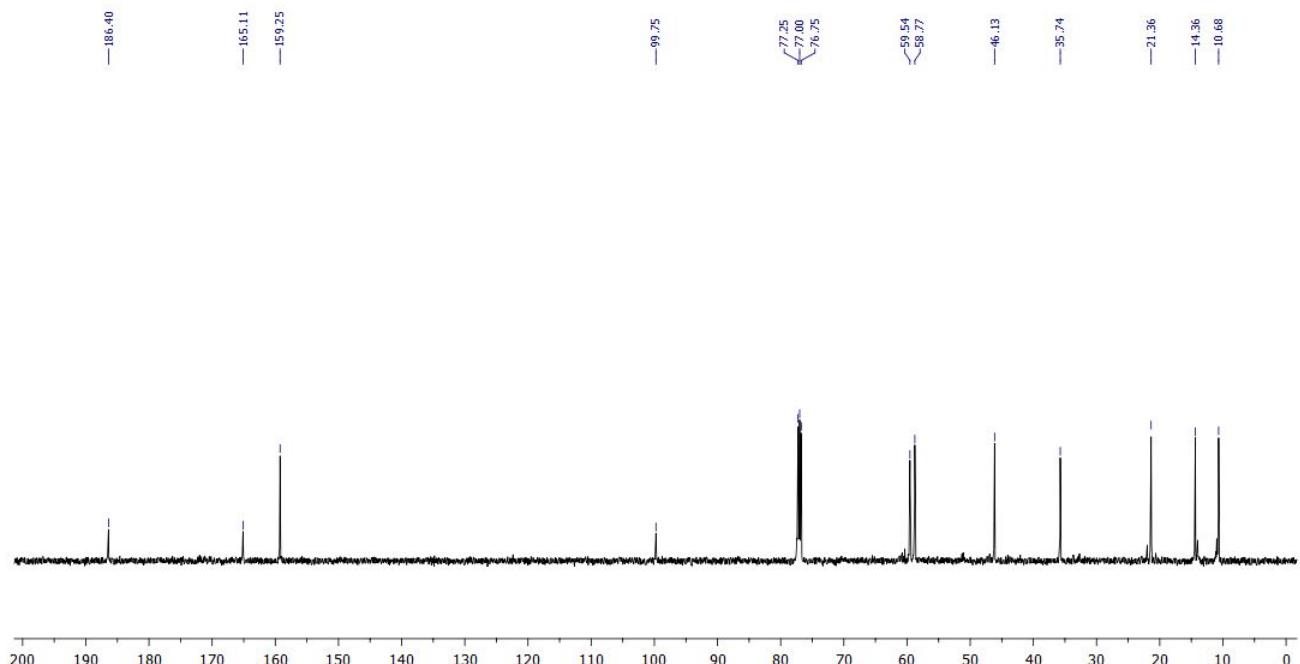
¹H NMR (500.3 MHz, CDCl₃)



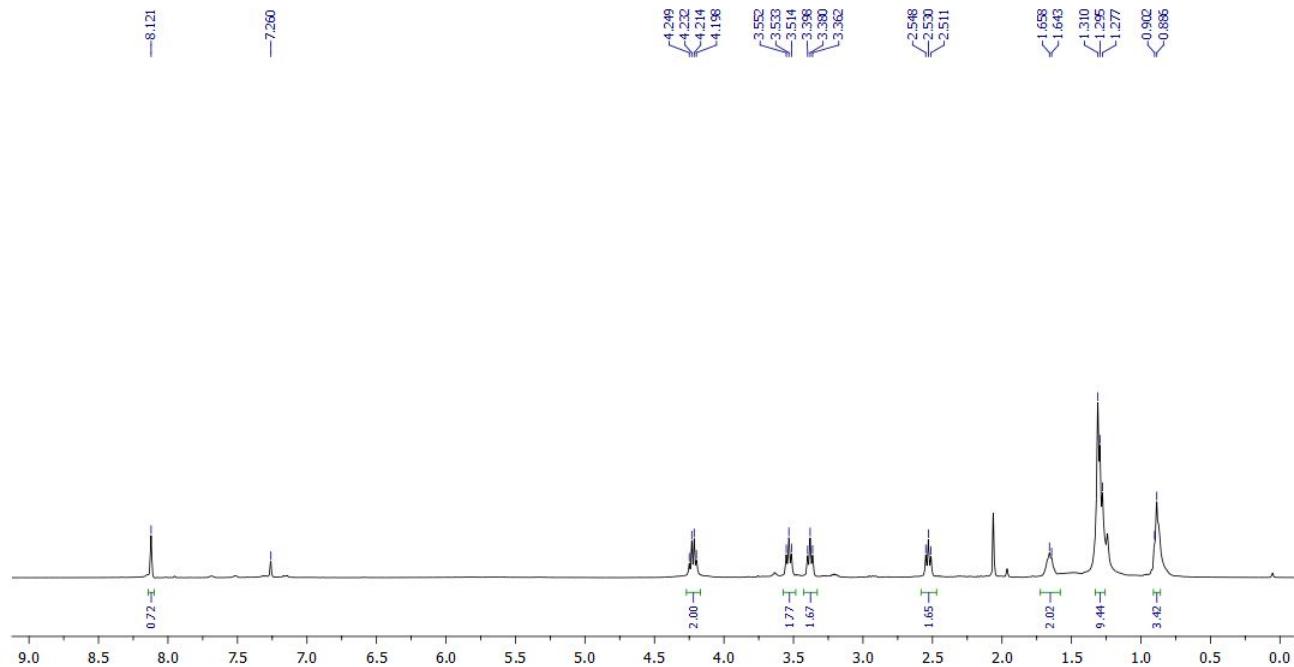
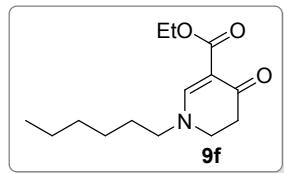
¹³C NMR (125.8 MHz, CDCl₃)



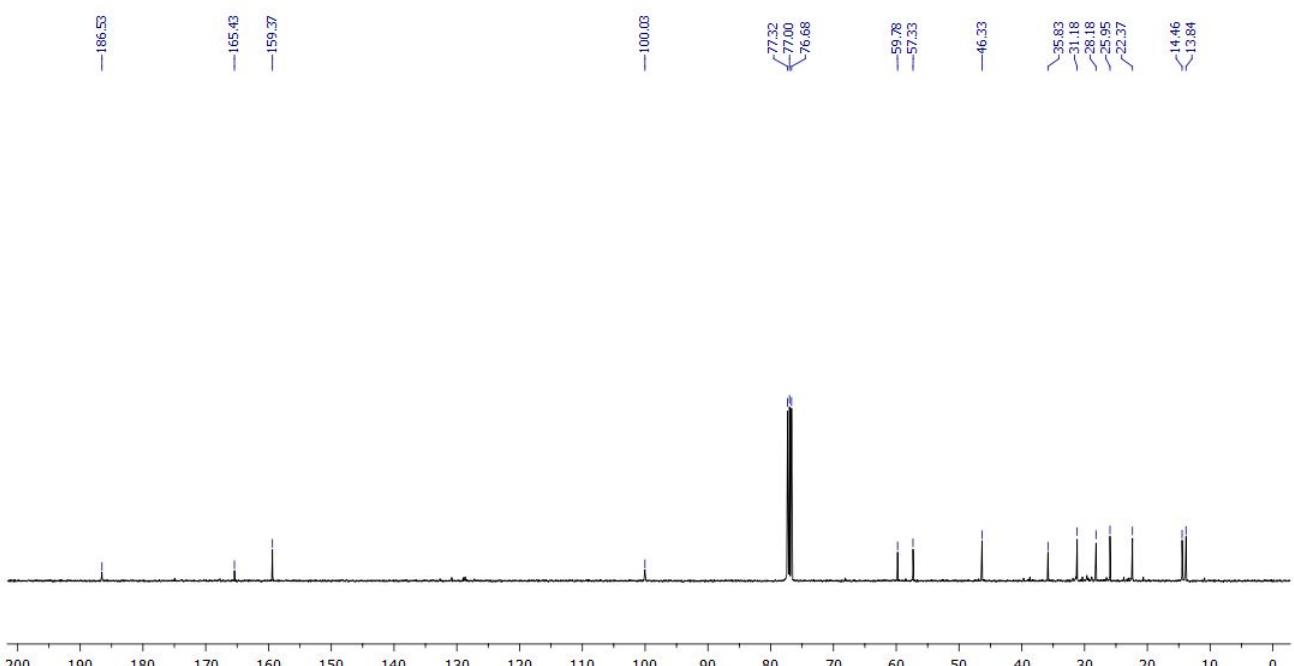
¹H NMR (400.1 MHz, CDCl₃)



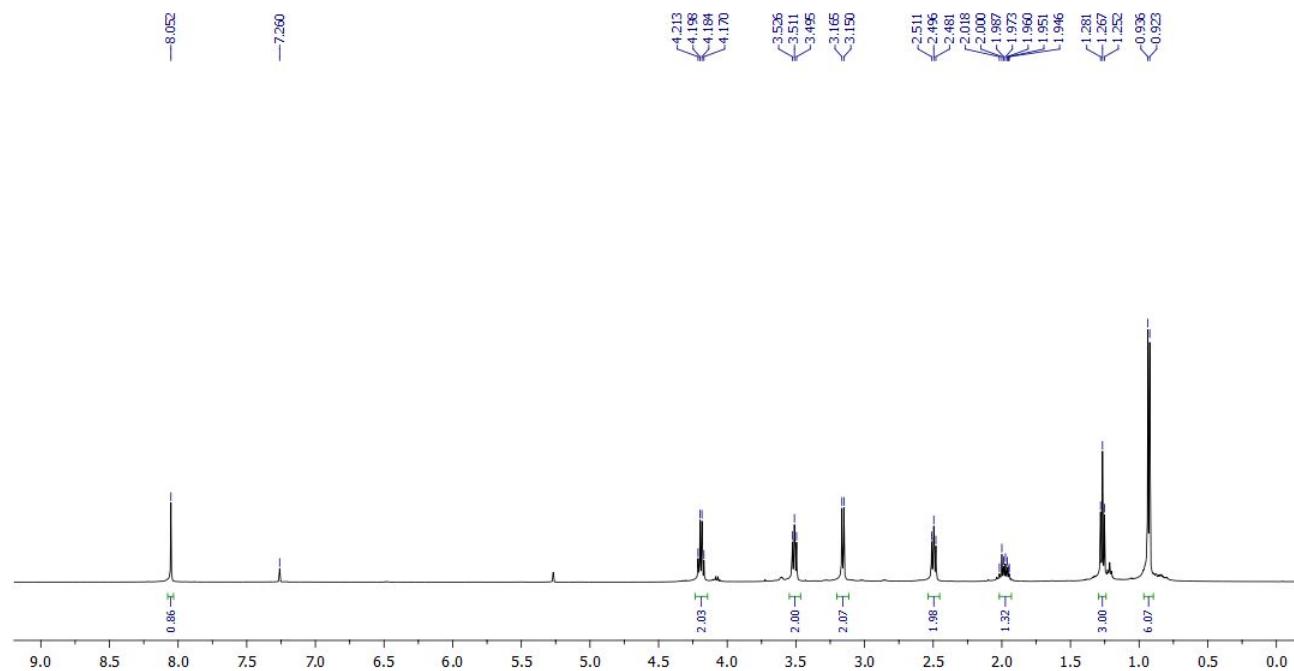
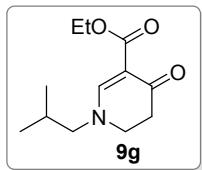
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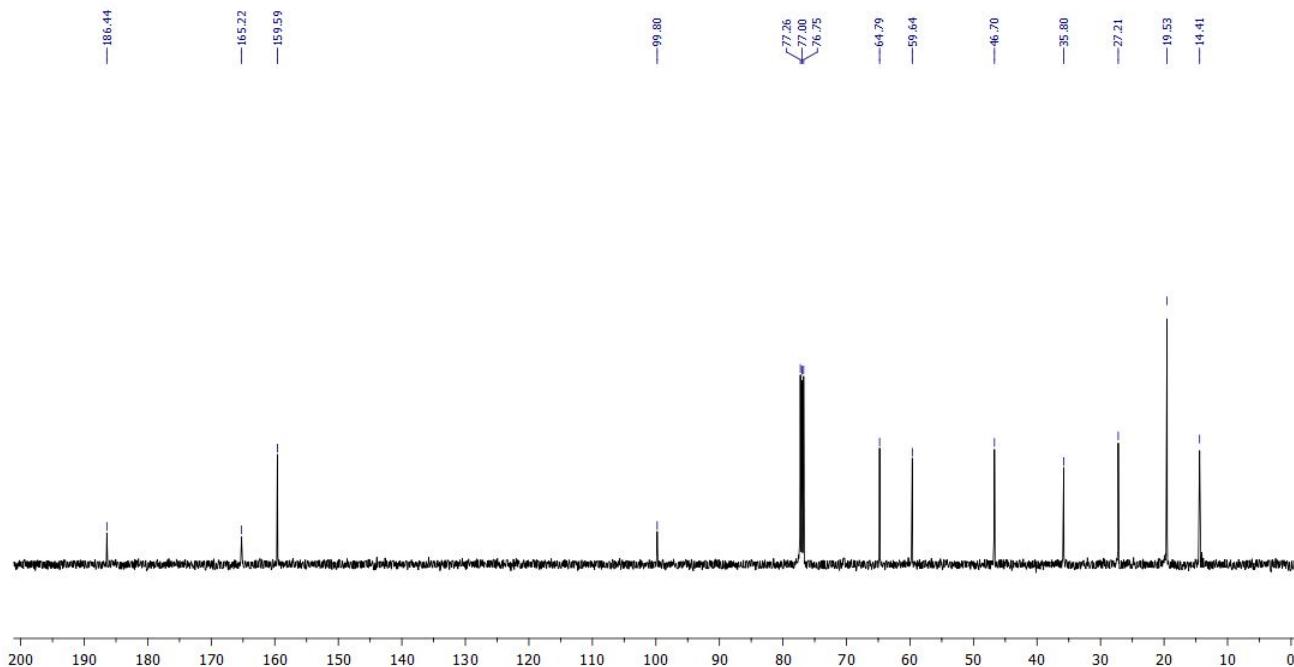
¹H NMR (400.1 MHz, CDCl₃)



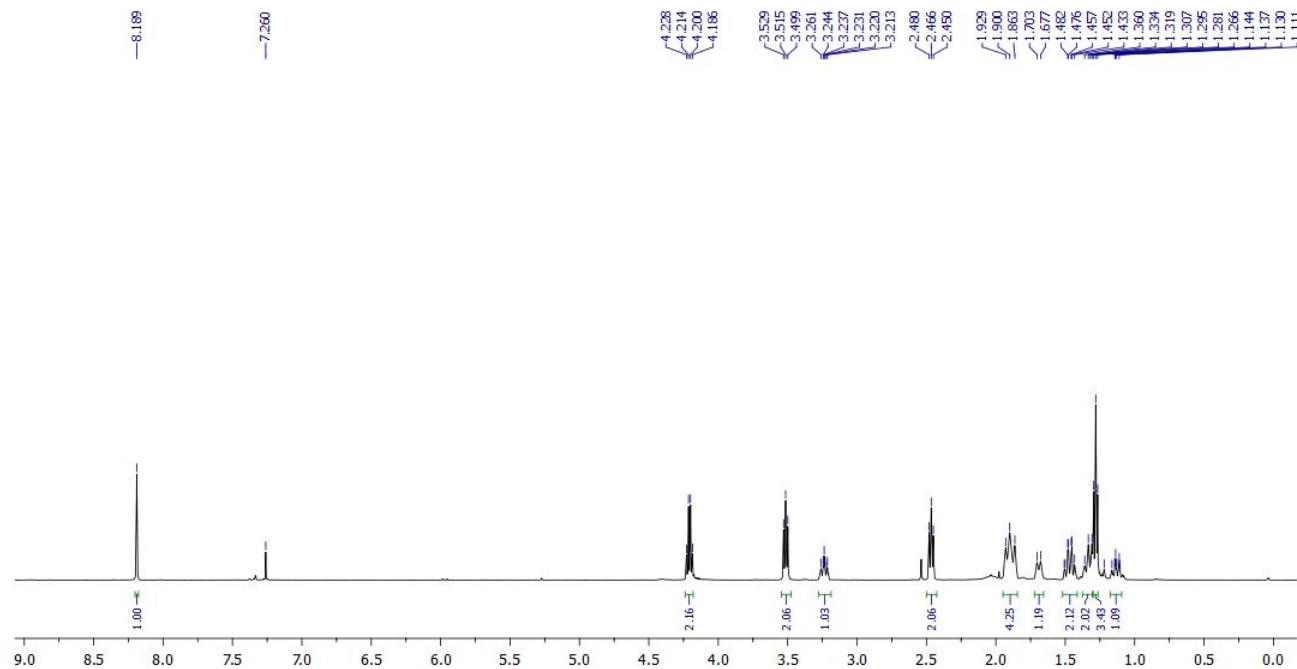
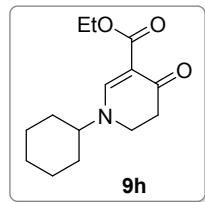
¹³C NMR (100.6 MHz, CDCl₃)



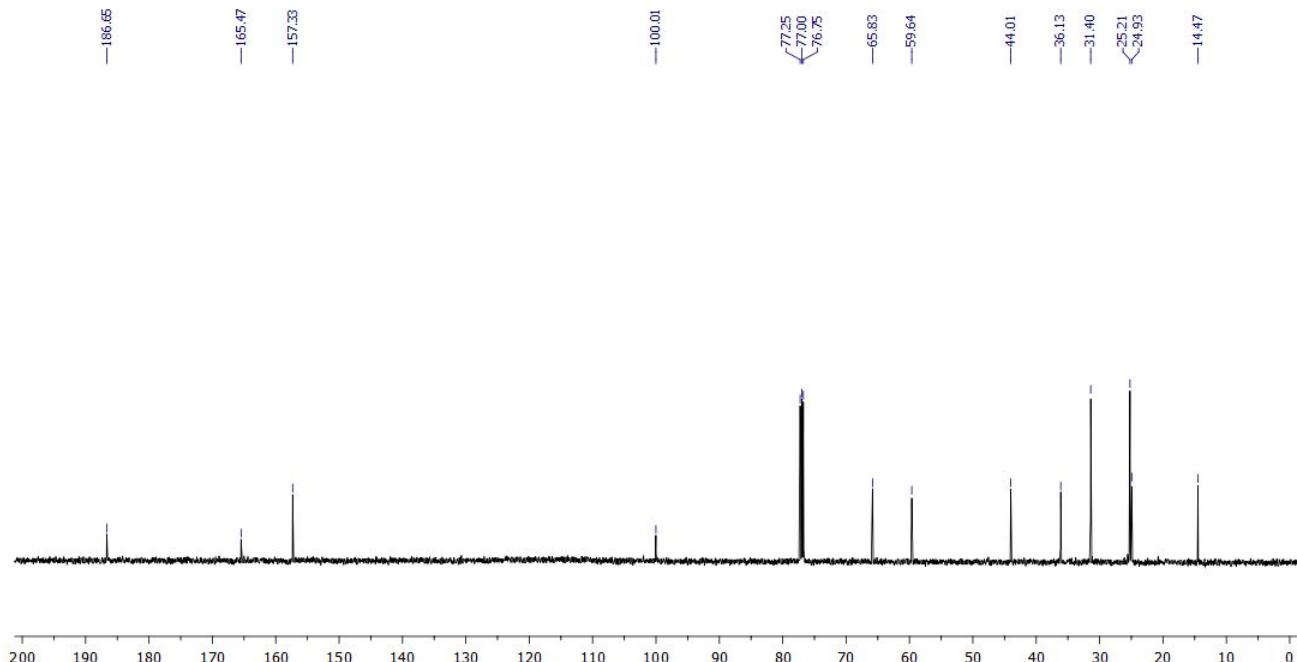
¹H NMR (500.3 MHz, CDCl₃)



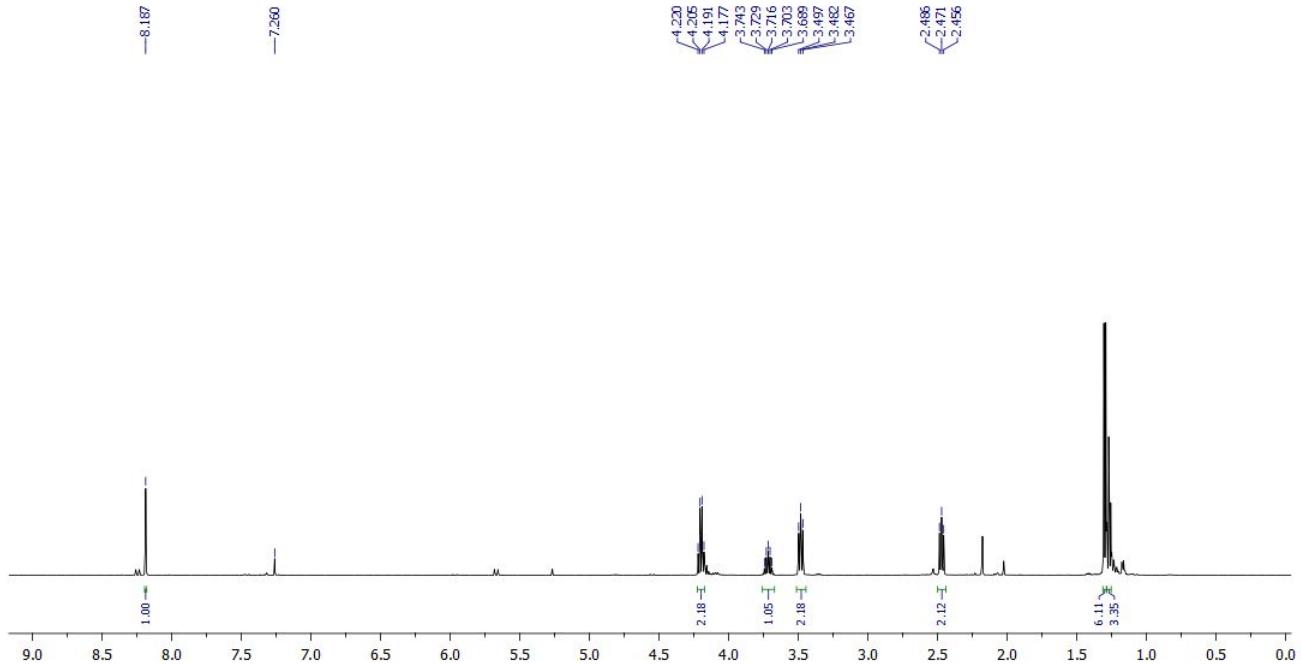
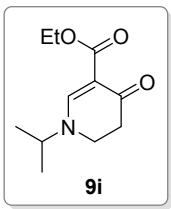
¹³C NMR (125.8 MHz, CDCl₃)



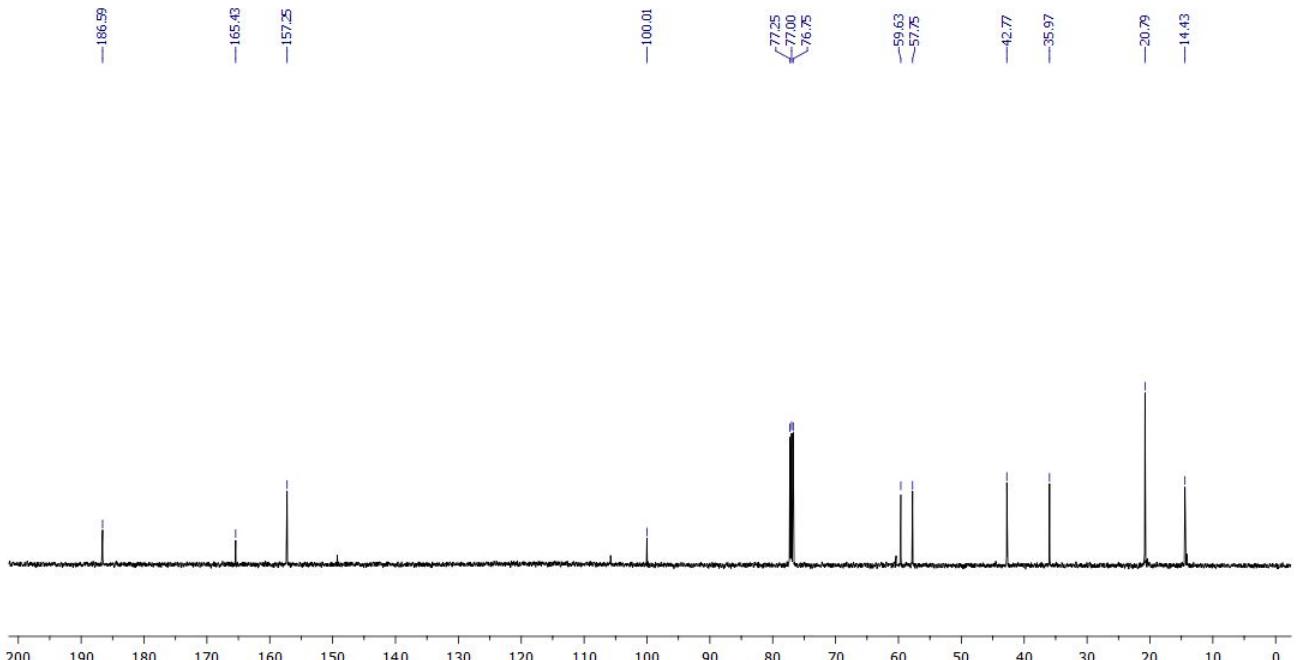
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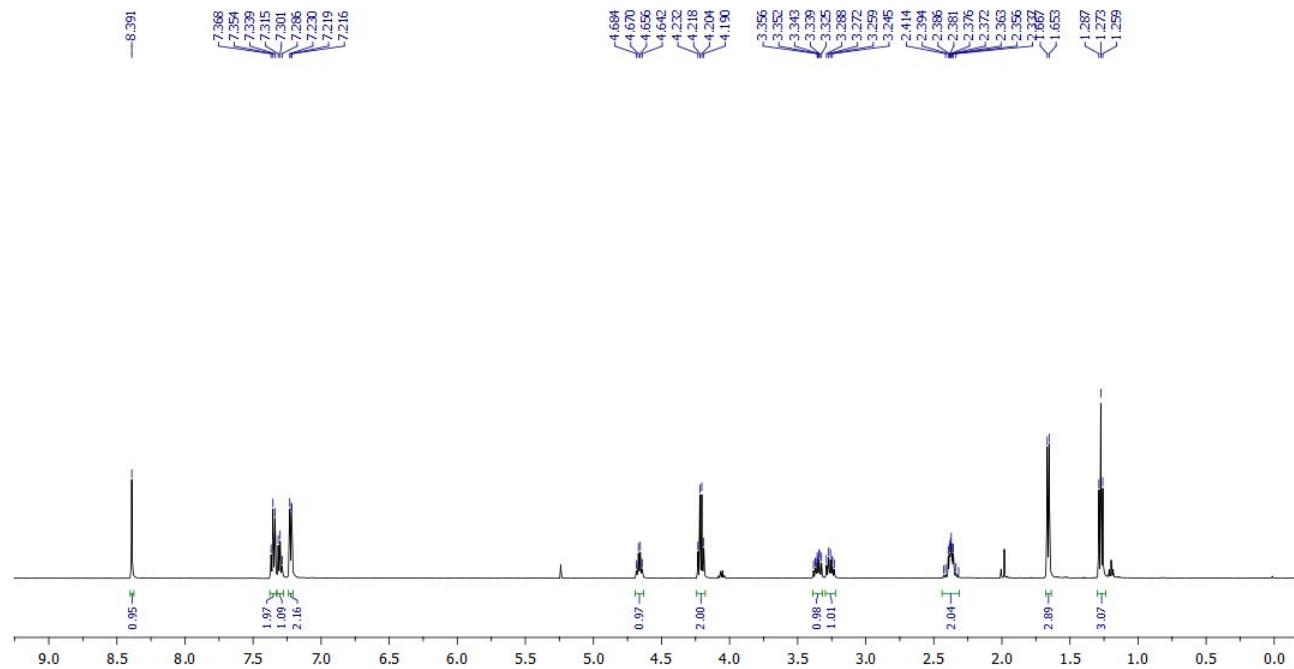
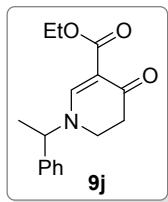
¹³C NMR (125.8 MHz, CDCl₃)



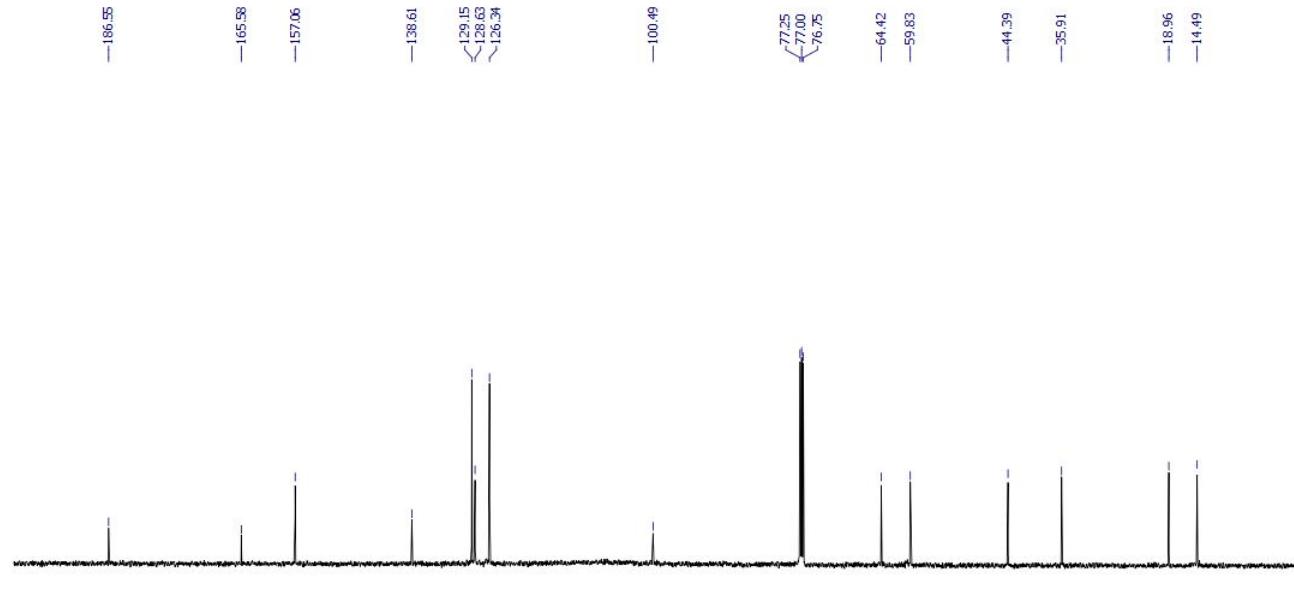
¹H NMR (500.3 MHz, CDCl₃)



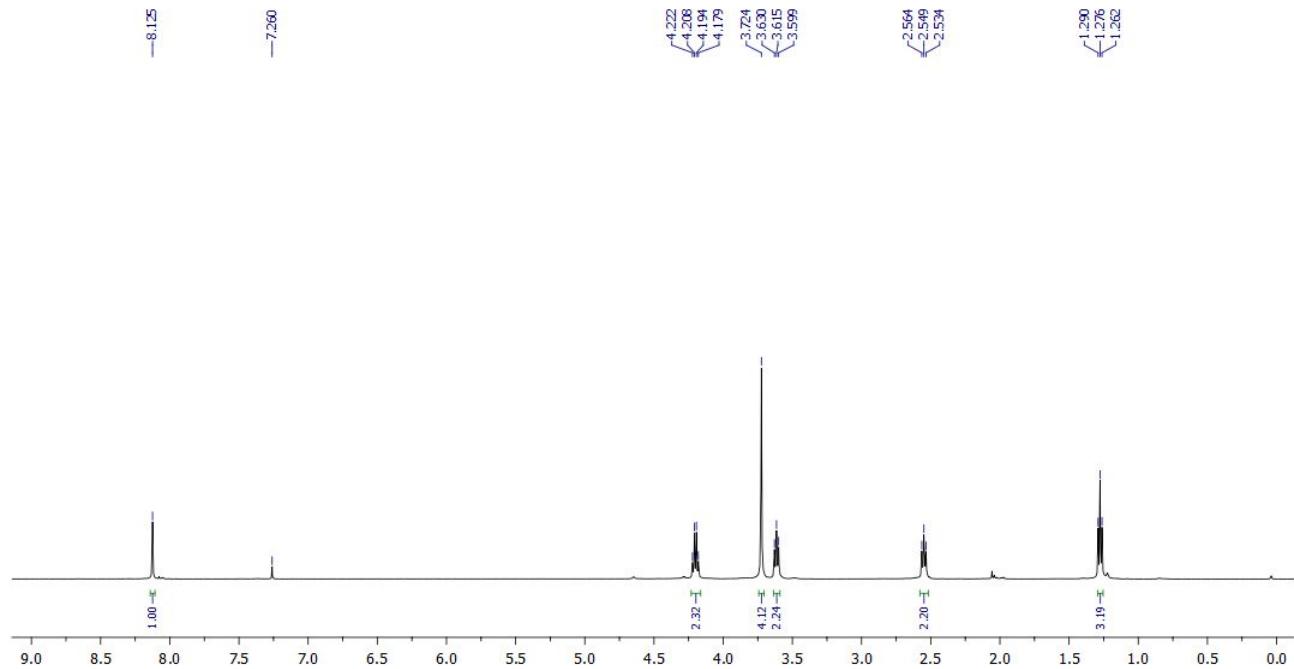
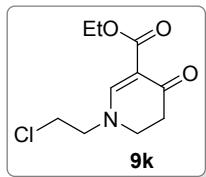
¹³C NMR (125.8 MHz, CDCl₃)



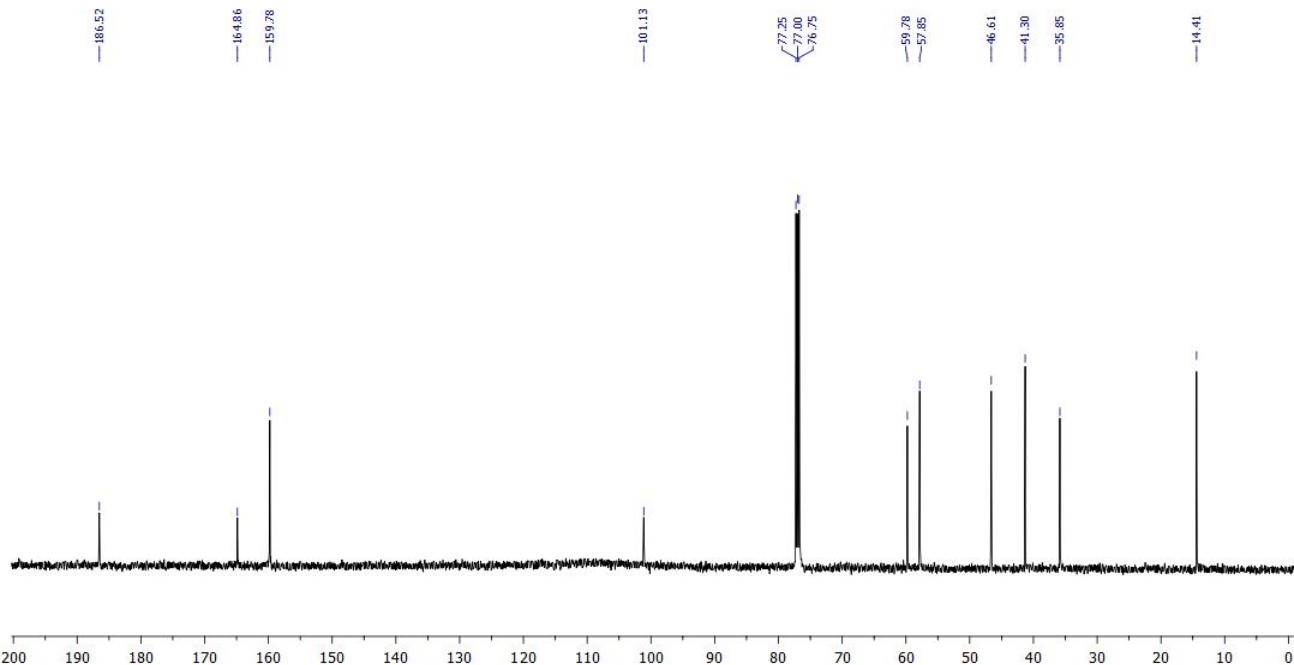
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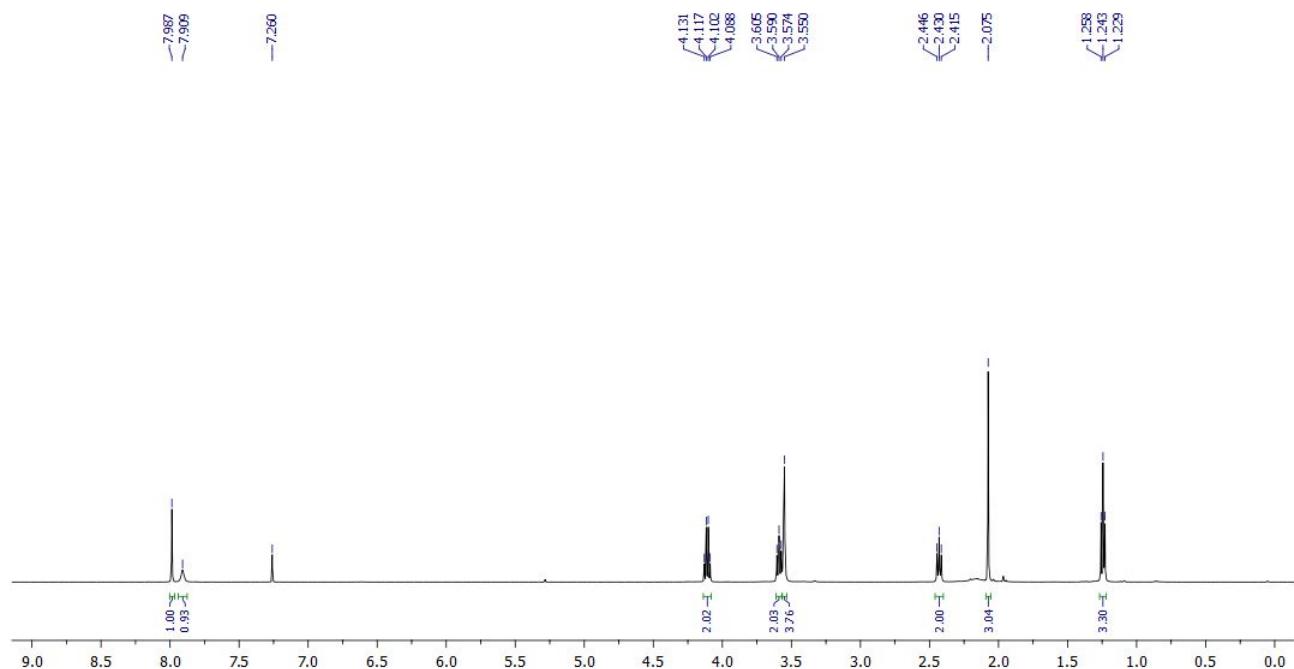
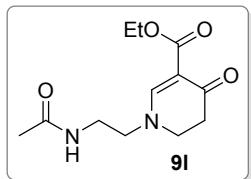
¹³C NMR (125.8 MHz, CDCl₃)



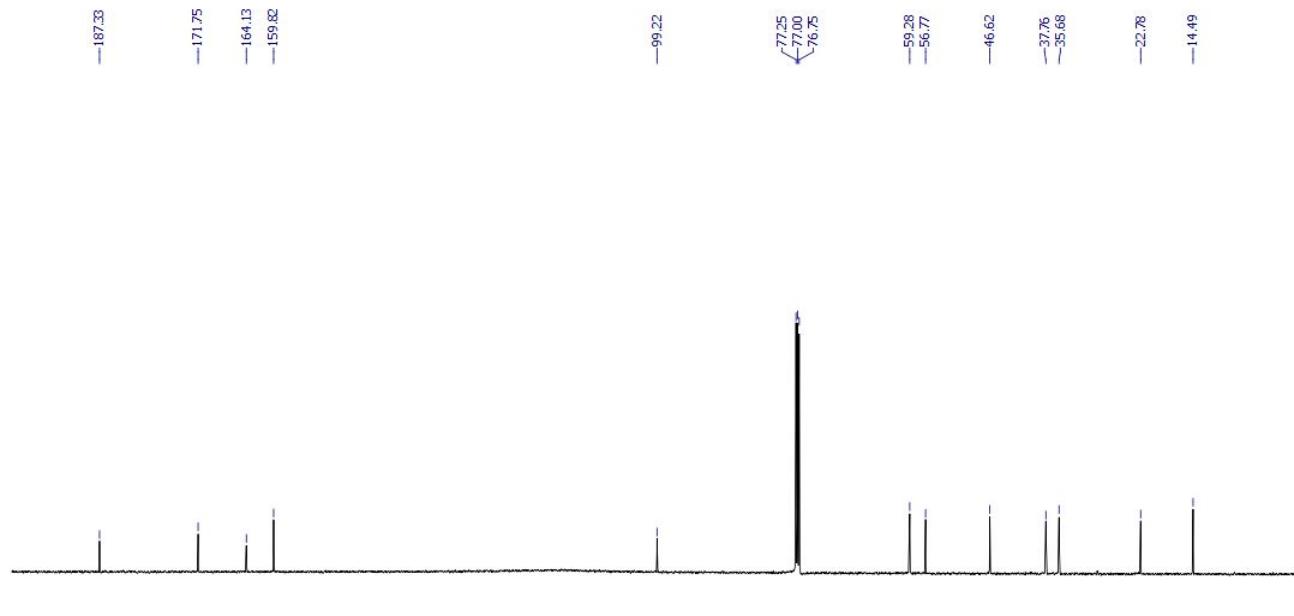
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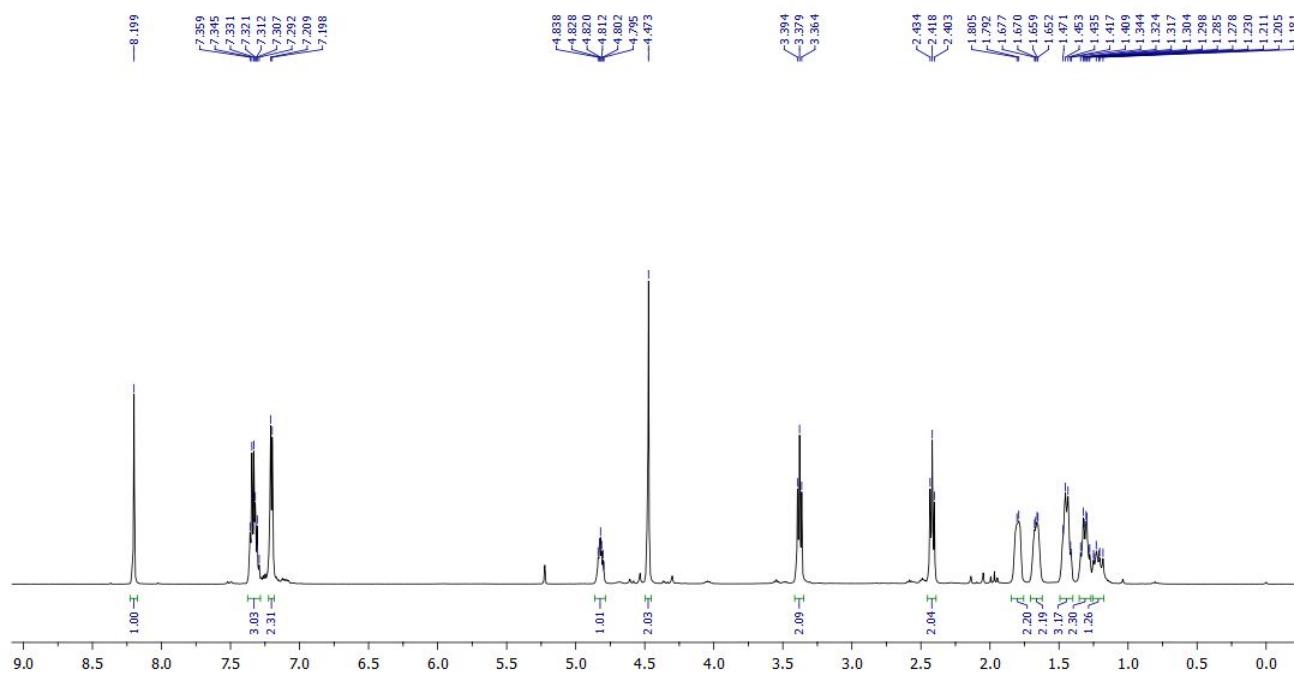
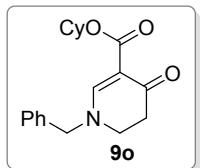
¹³C NMR (125.8 MHz, CDCl₃)



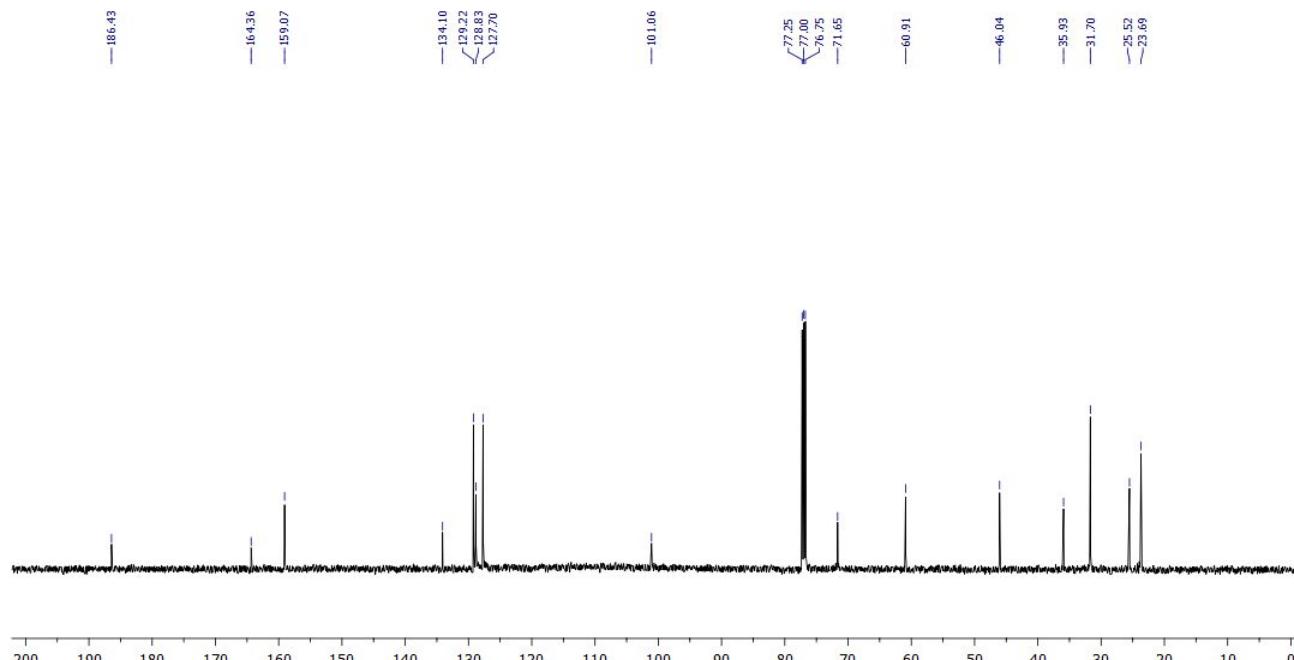
¹H NMR (500.3 MHz, CDCl_3)



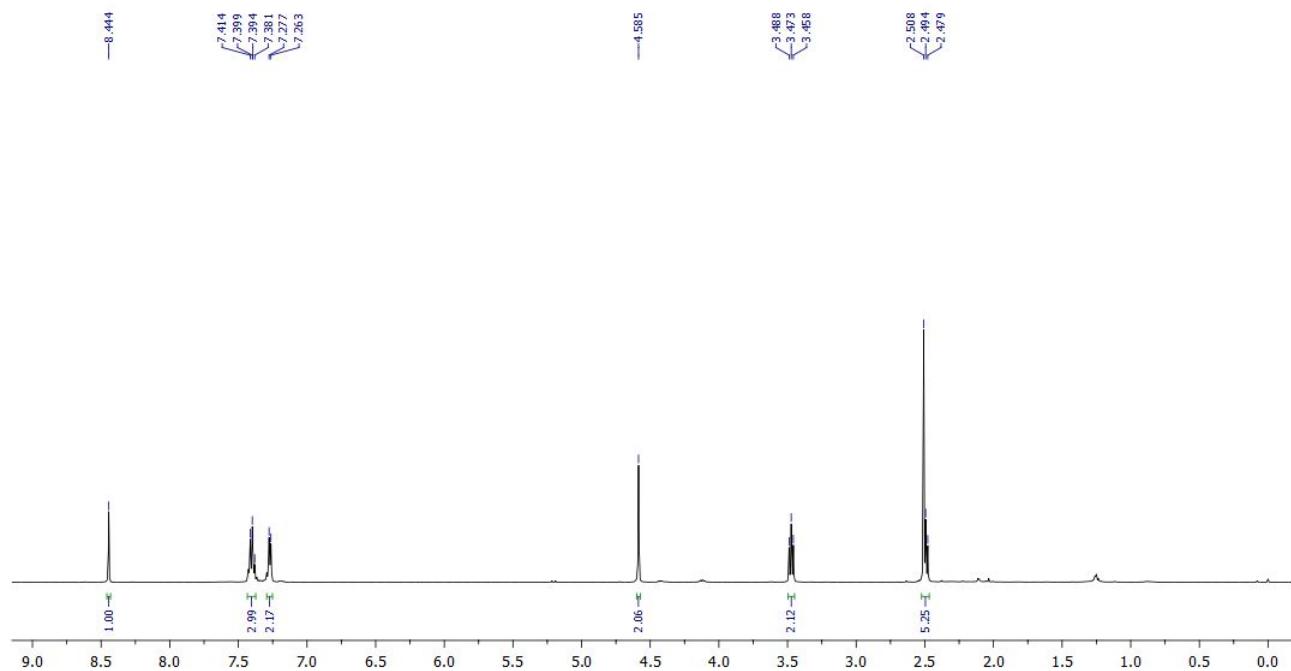
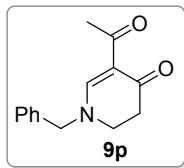
¹³C NMR (125.8 MHz, CDCl_3)



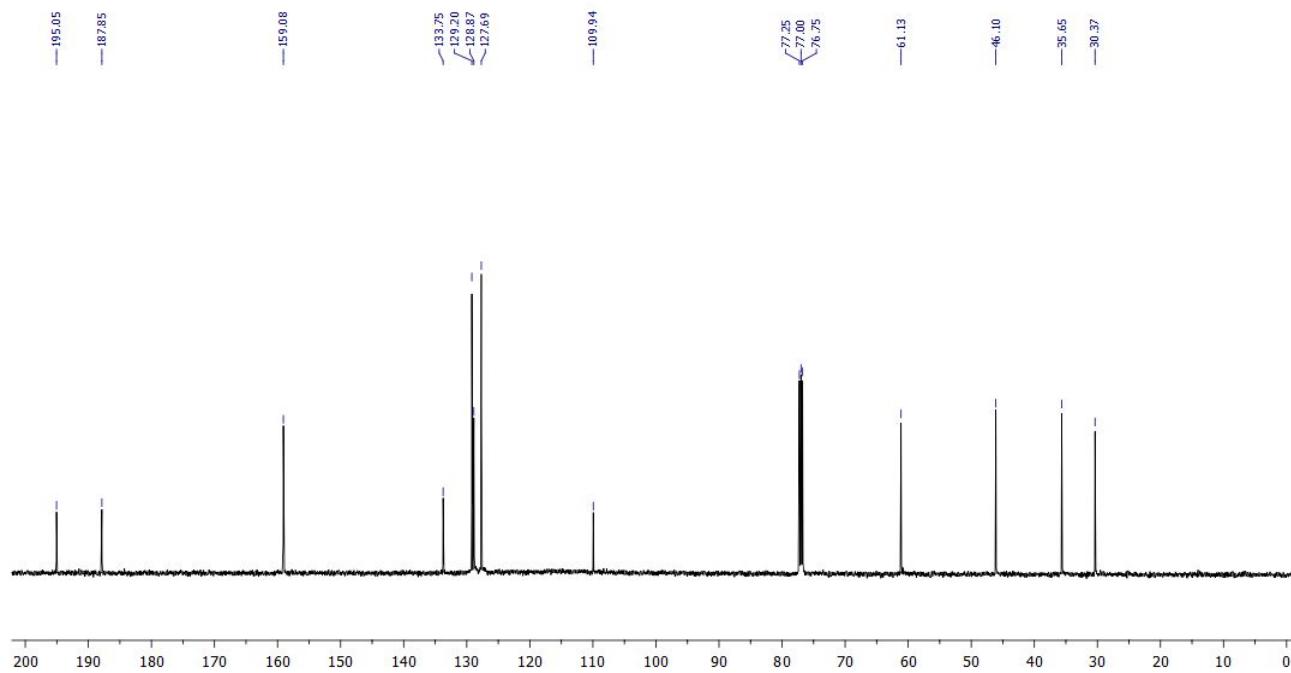
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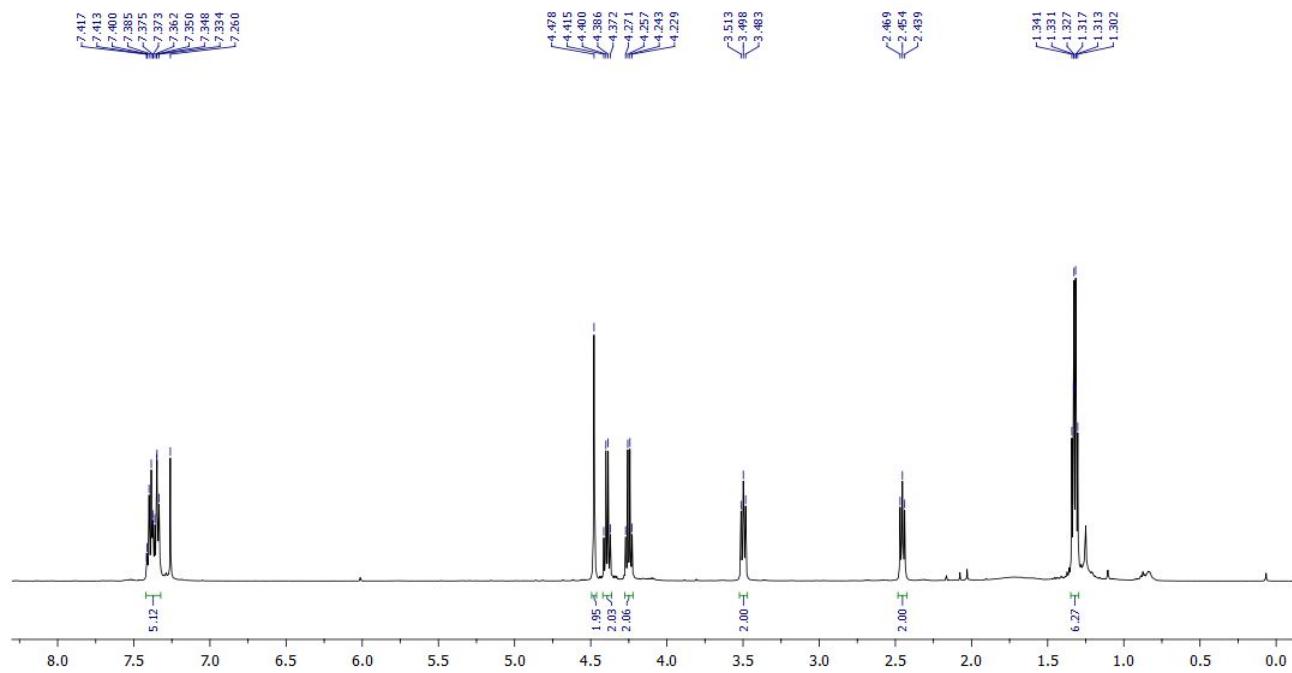
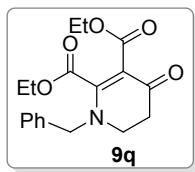
¹³C NMR (125.8 MHz, CDCl₃)



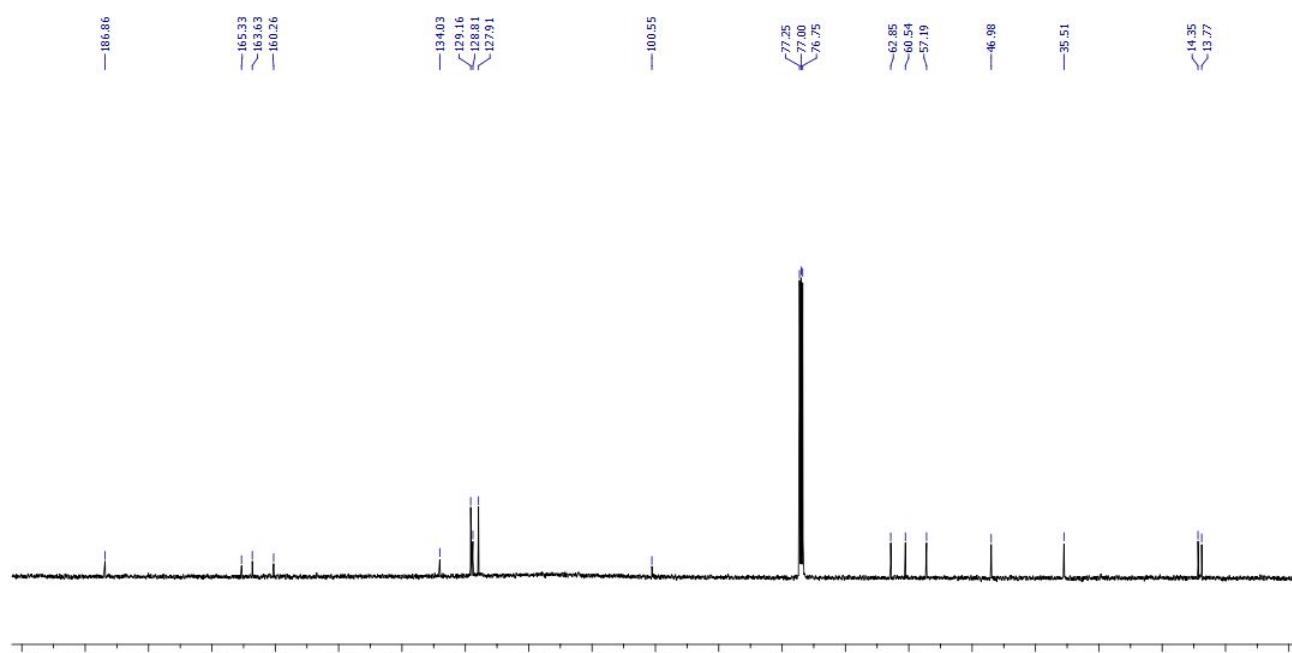
¹H NMR (500.3 MHz, CDCl₃)



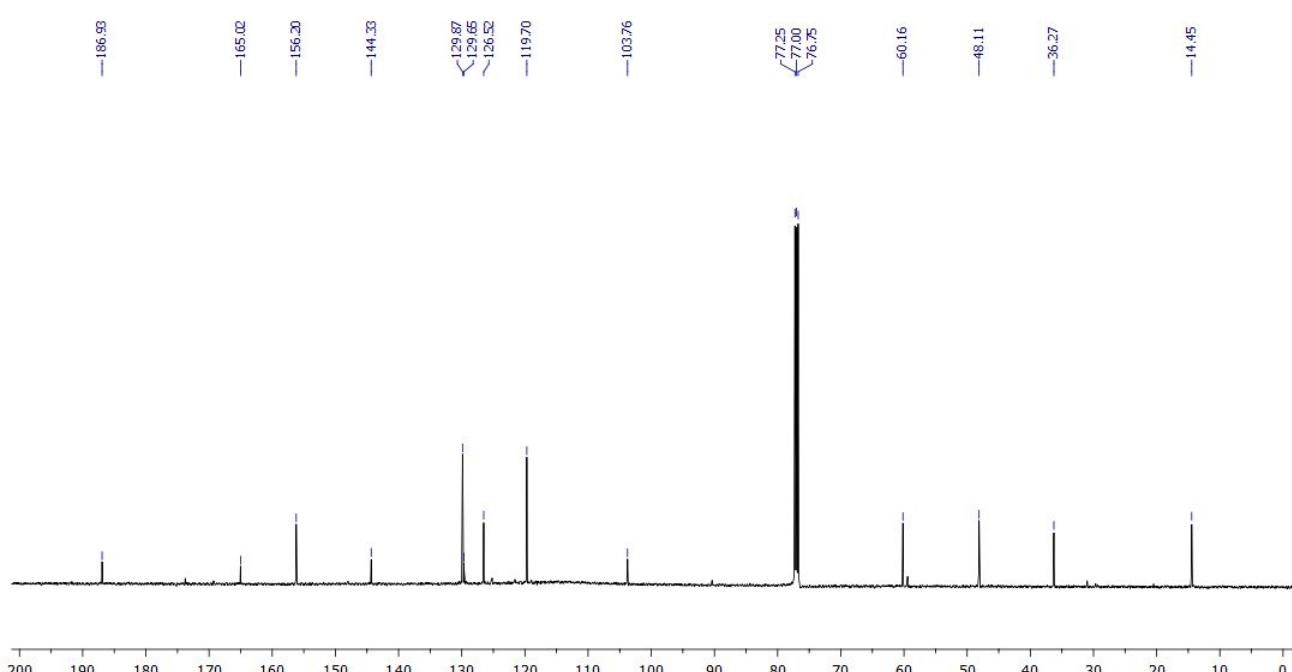
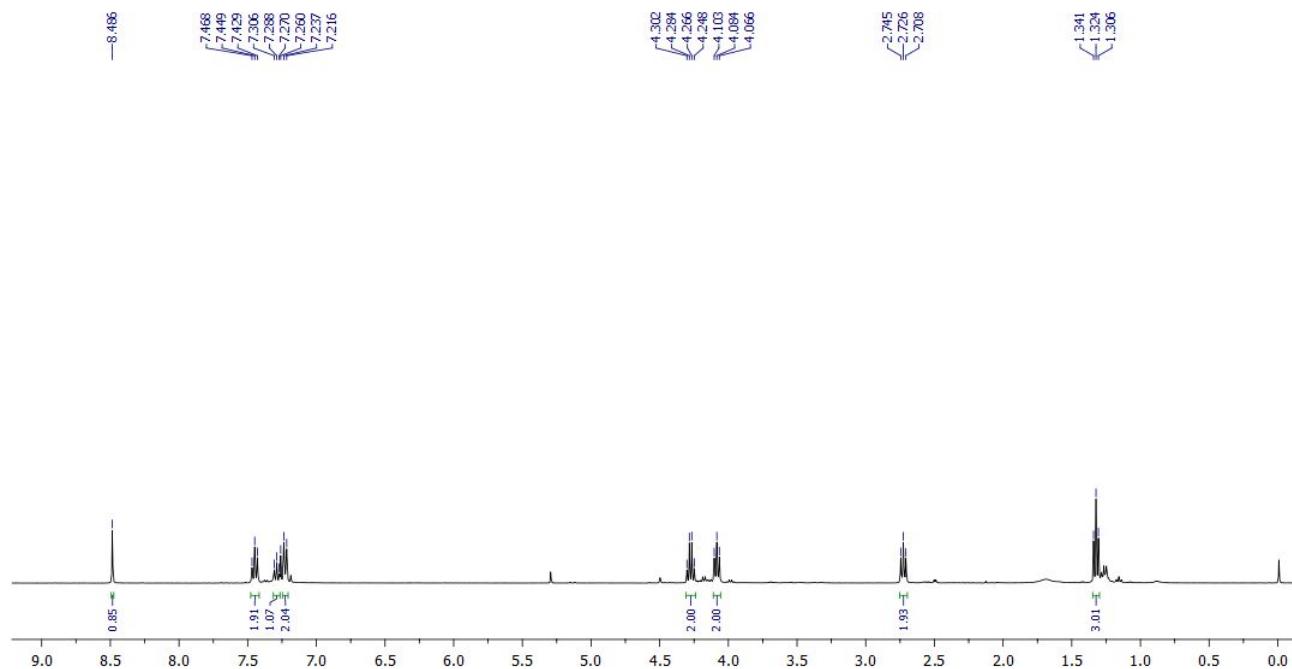
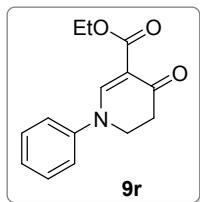
¹³C NMR (125.8 MHz, CDCl₃)

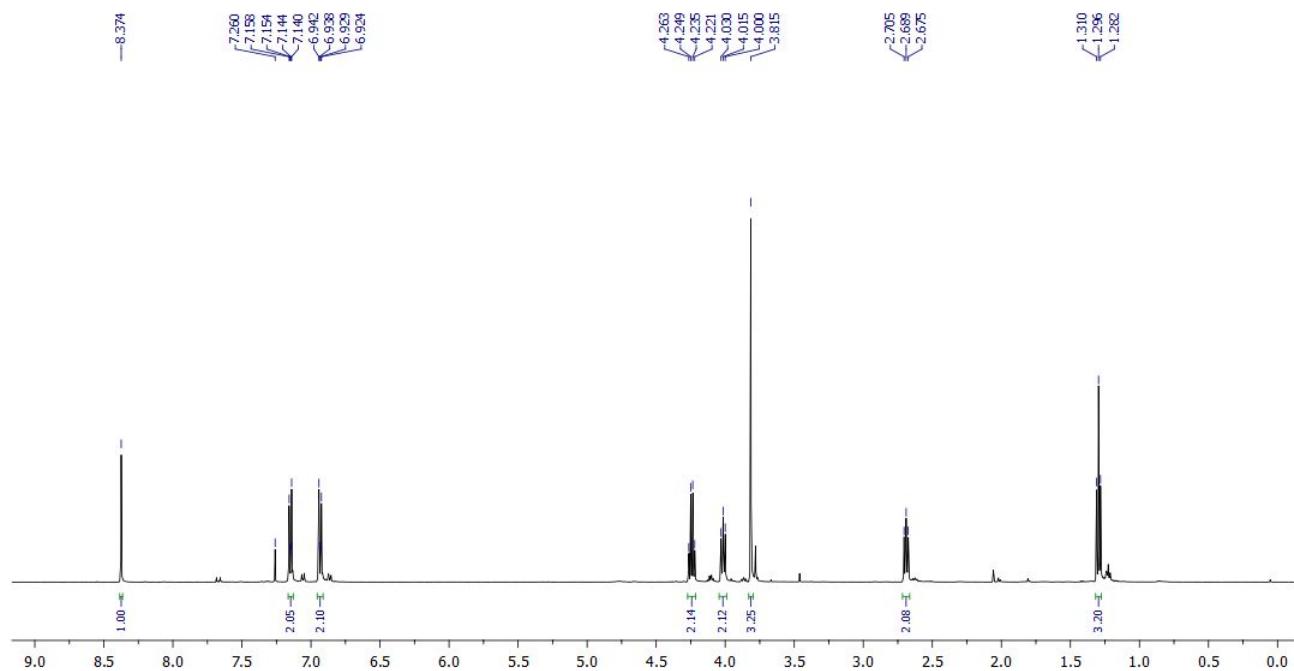
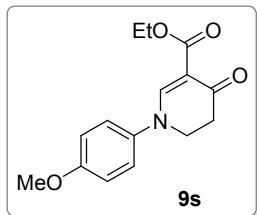


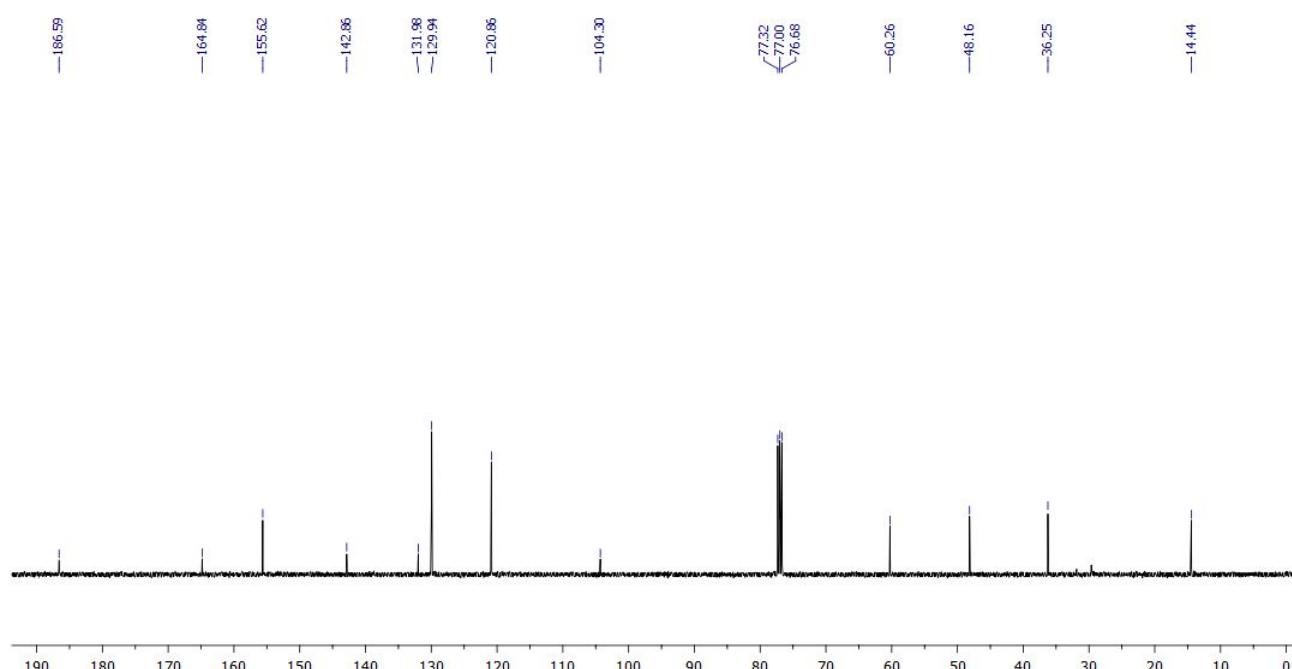
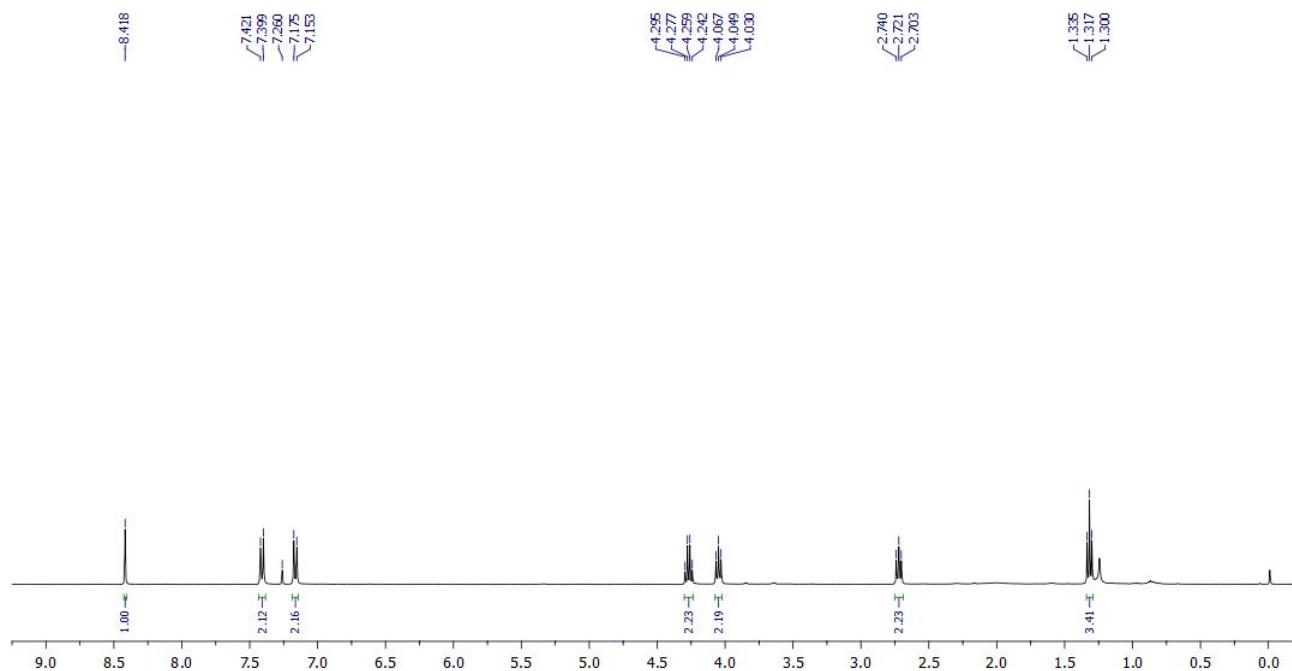
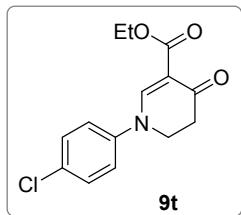
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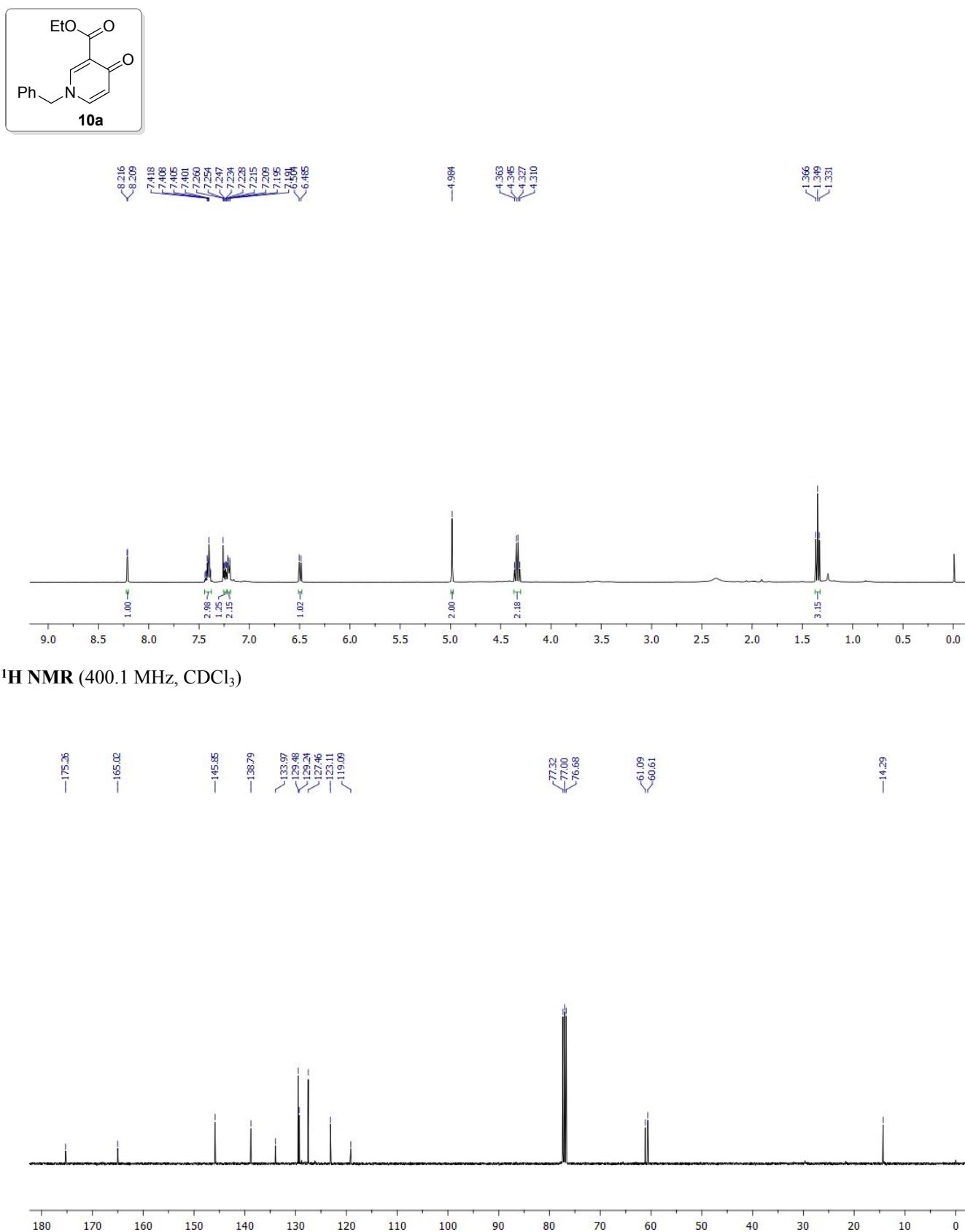
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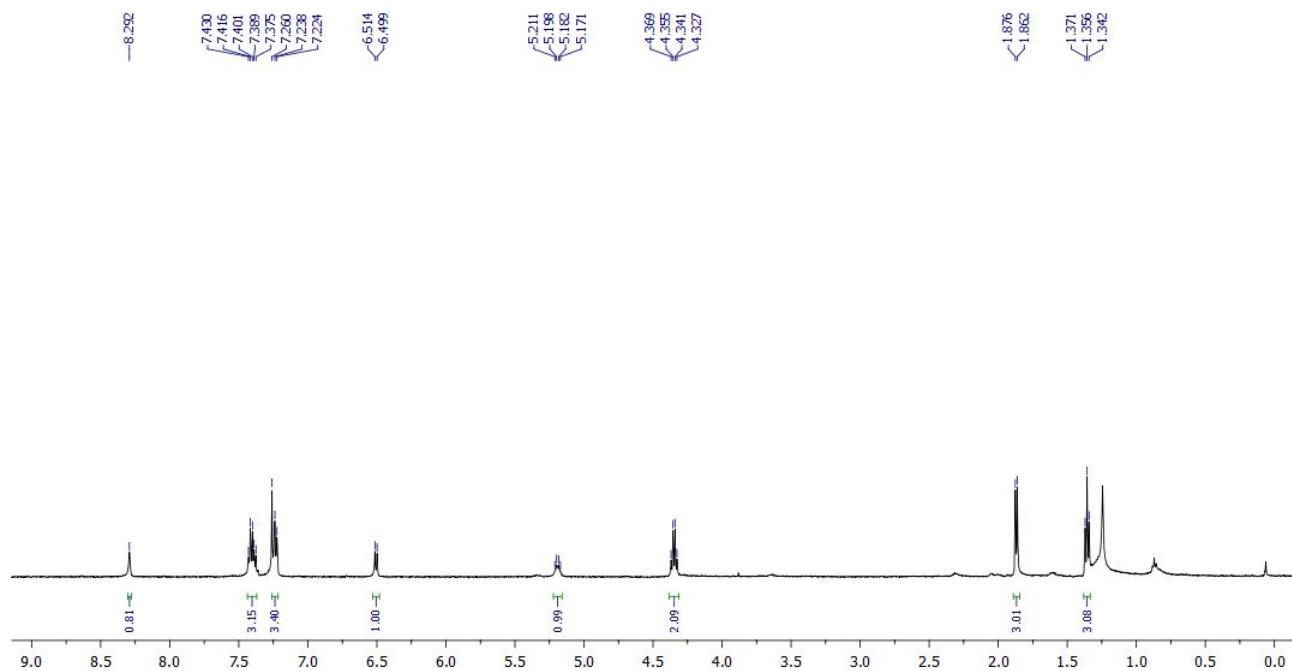
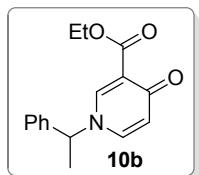




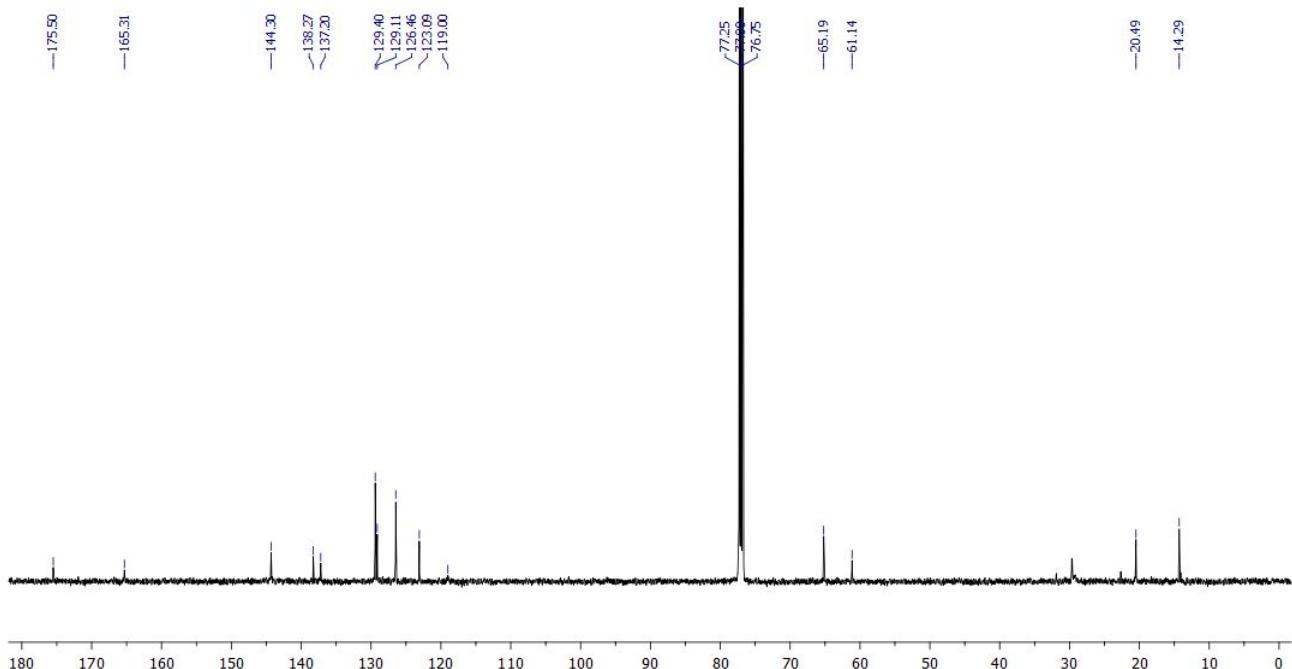


4-Pyridones 10

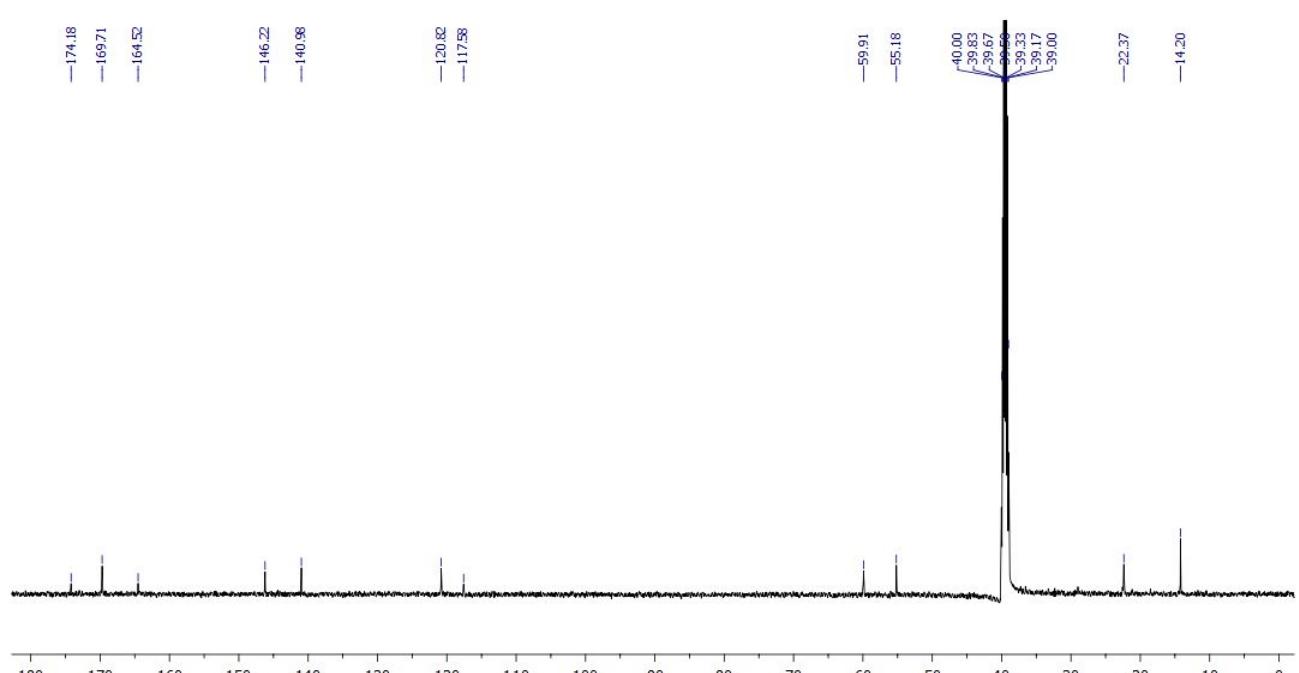
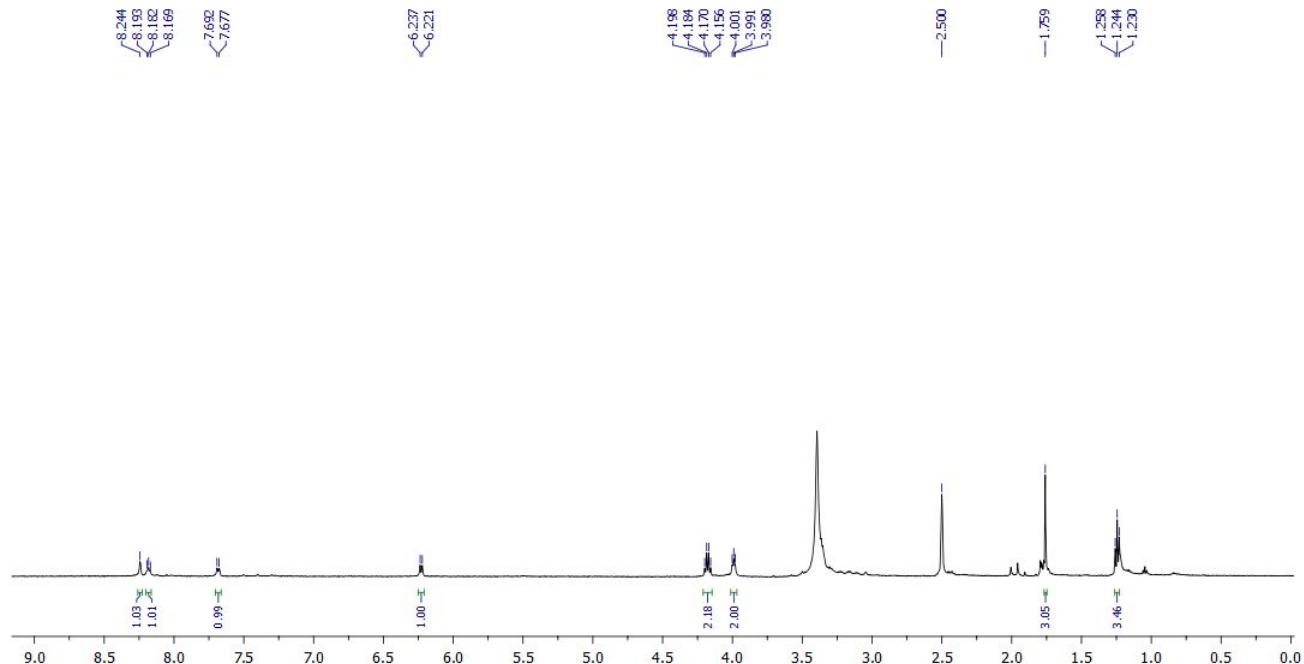
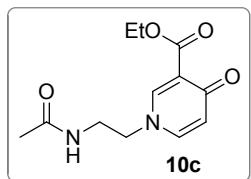


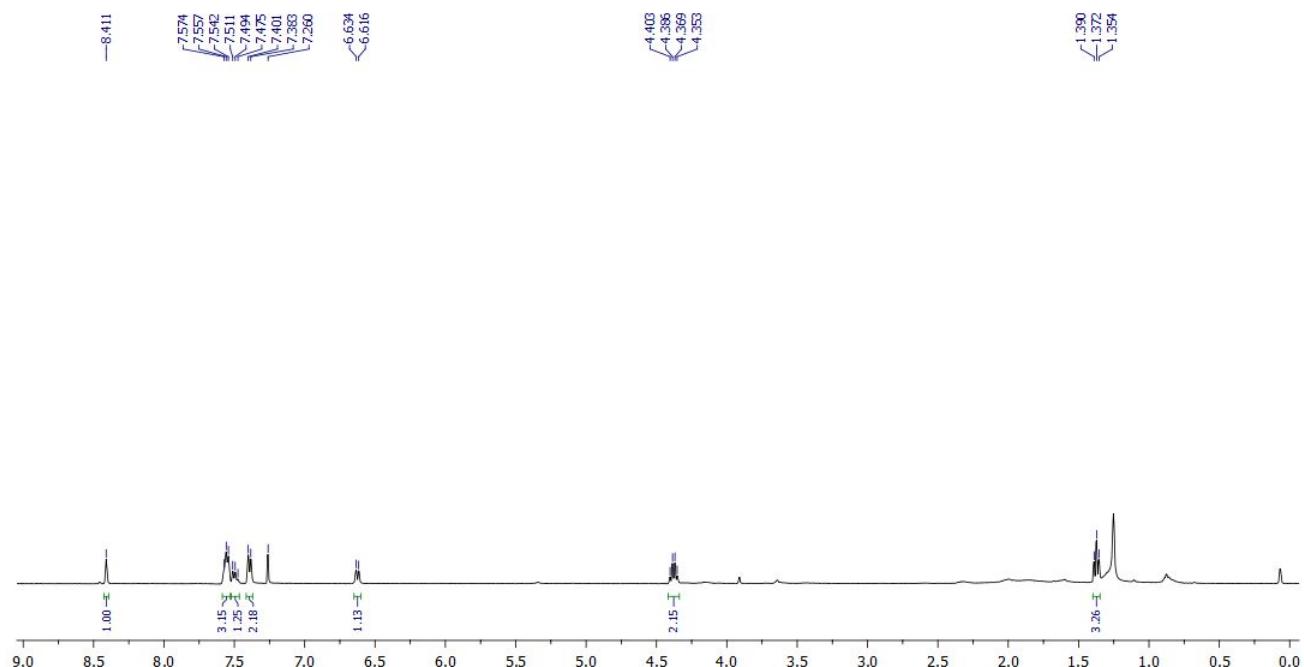
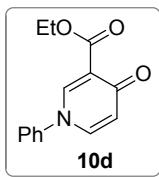


¹H NMR (500.3 MHz, CDCl₃)

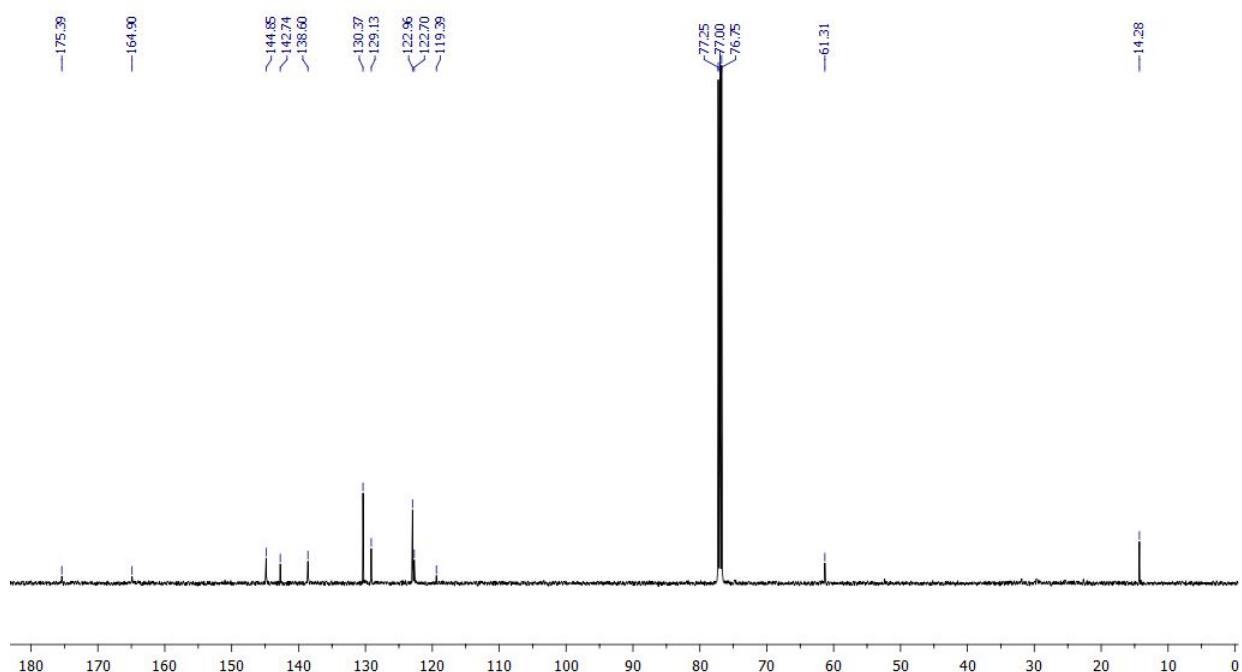


¹³C NMR (125.8 MHz, CDCl₃)





¹H NMR (400.1 MHz, CDCl₃)



¹³C NMR (125.8 MHz, CDCl₃)