

***De Novo Protecting-Group-Free Total Synthesis of (+)-
Muricadienin (+)-Ancepsenolide and (+)-3-Hexadesyl-5-
methylofuran-2(5H)-one***

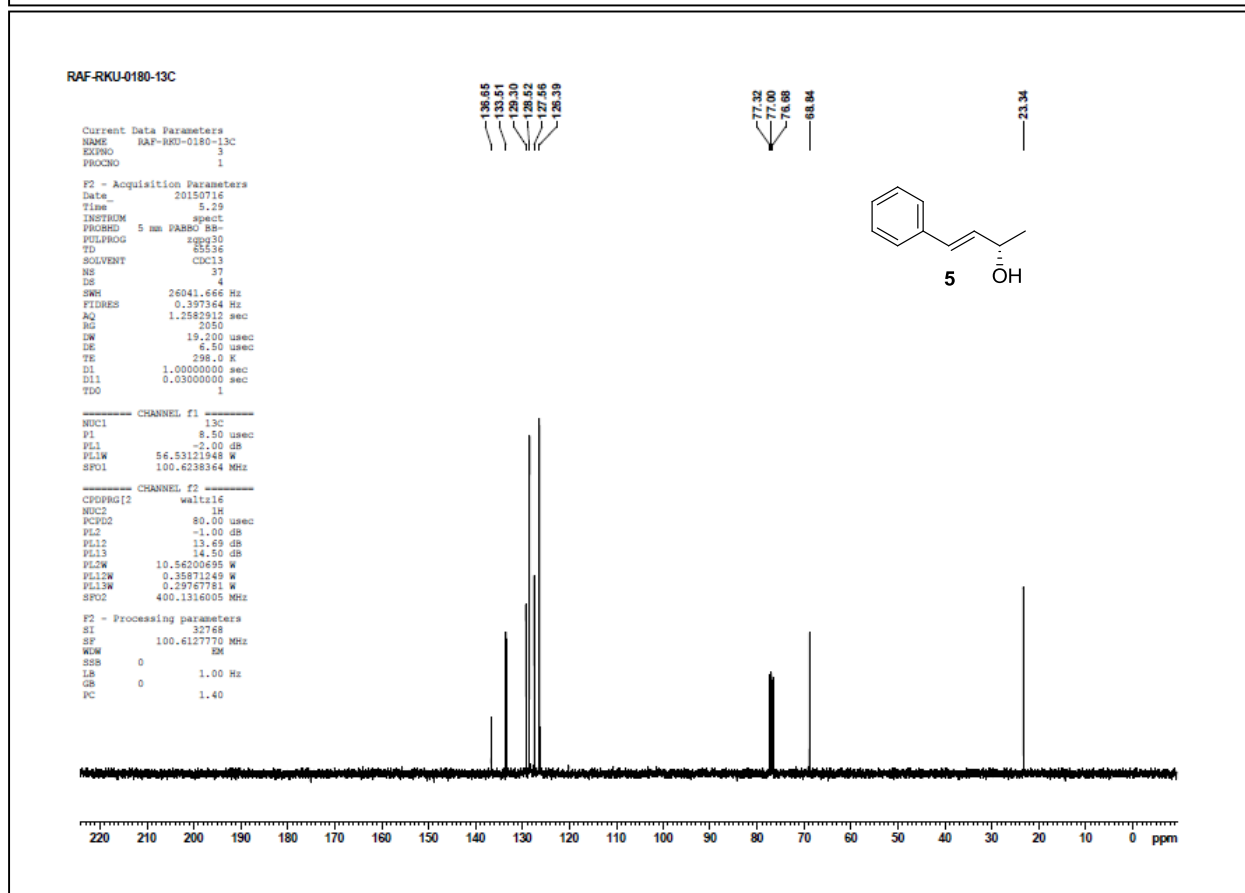
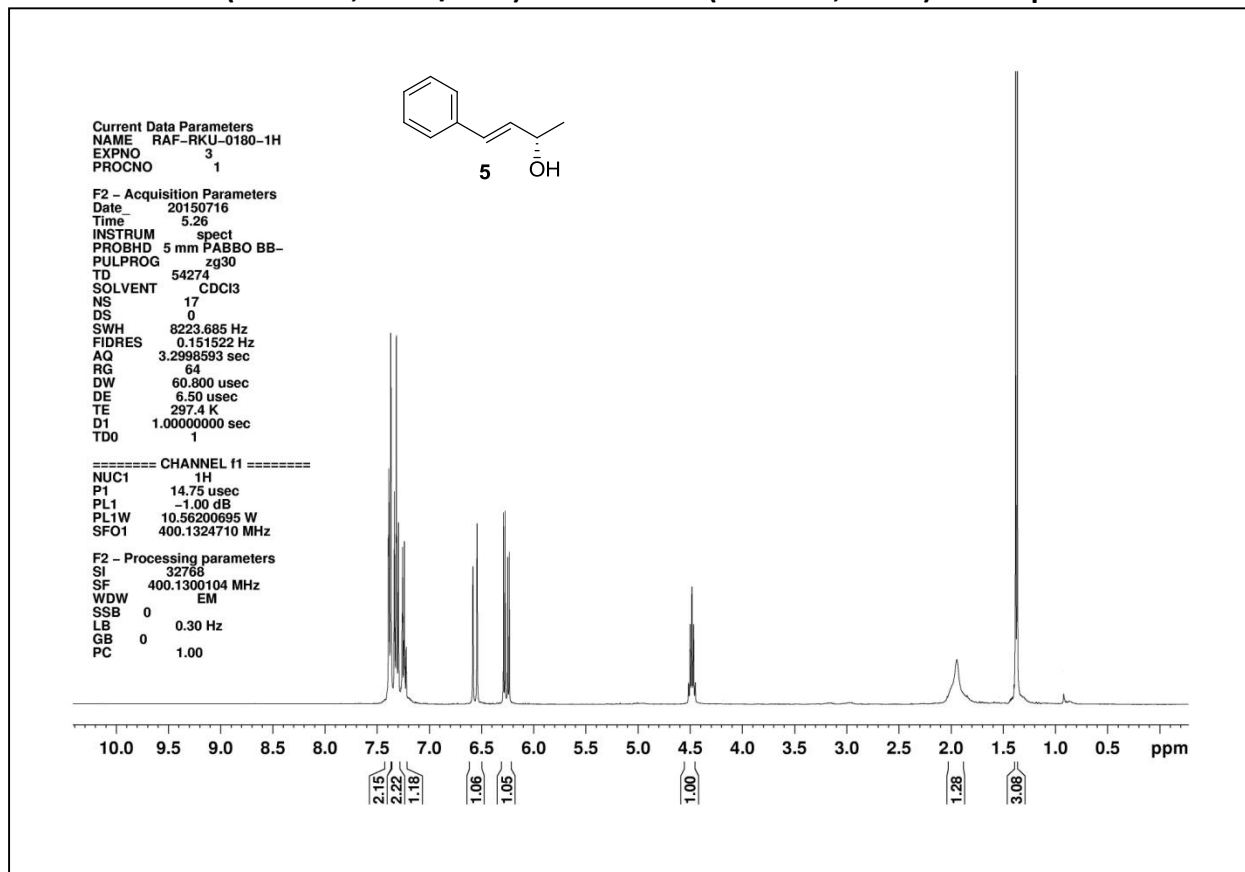
Rupesh A. Kunkalkar, Debasish Laha and Rodney A. Fernandes*

Department of Chemistry, Indian Institute of Technology Bombay
Powai, Mumbai 400 076, Maharashtra (India)
E-mail: rfernand@chem.iitb.ac.in

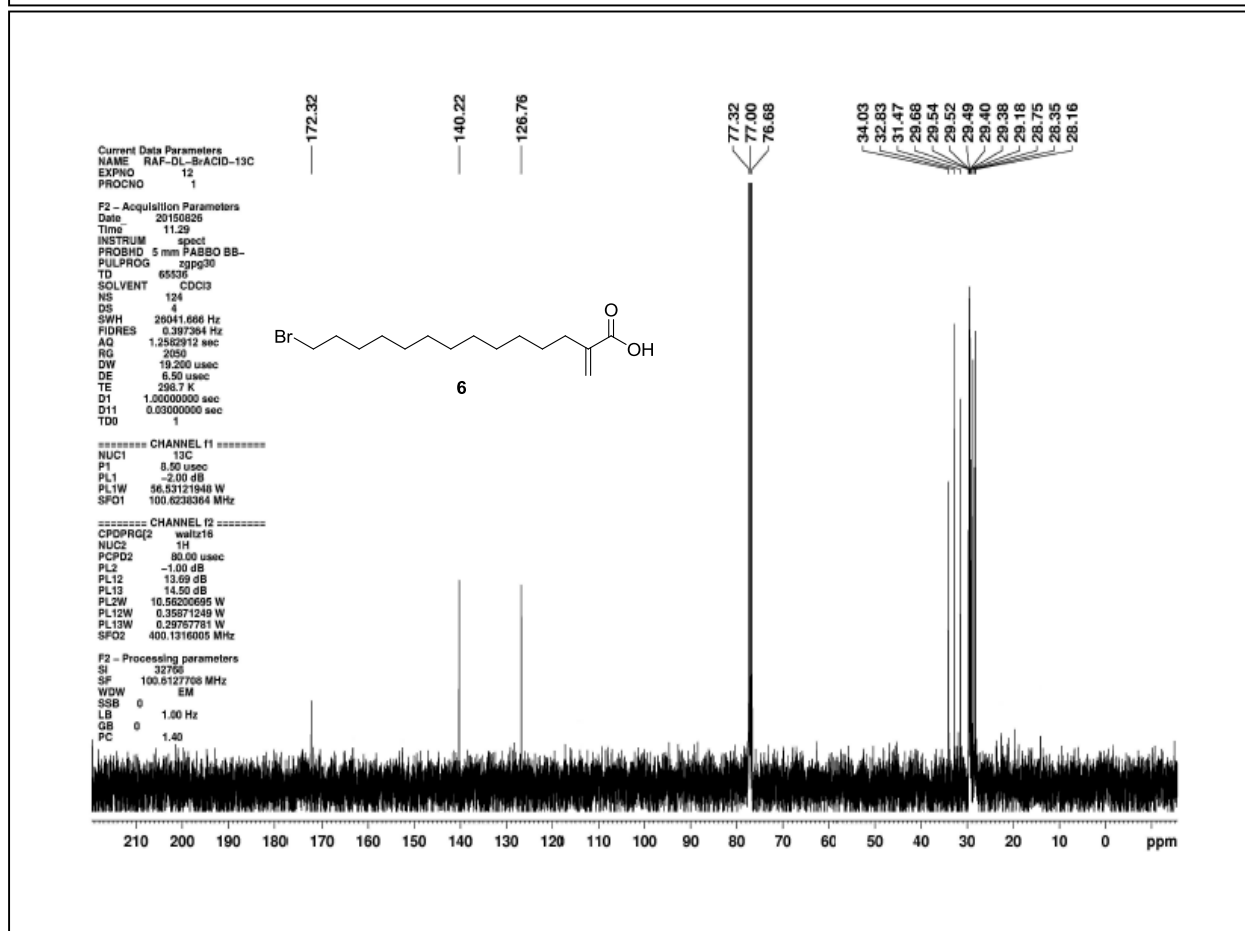
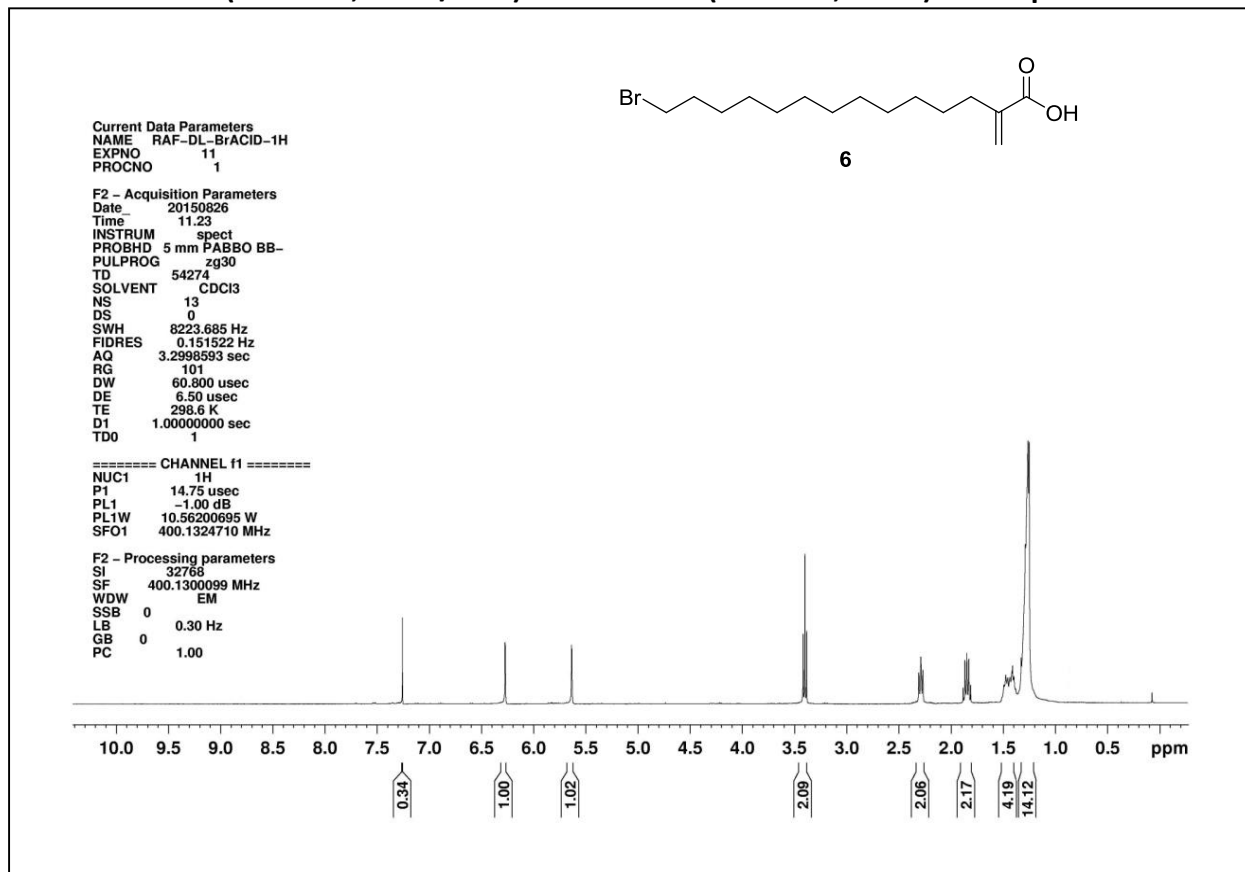
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¹H NMR, ¹³C NMR of all compounds S2-S17

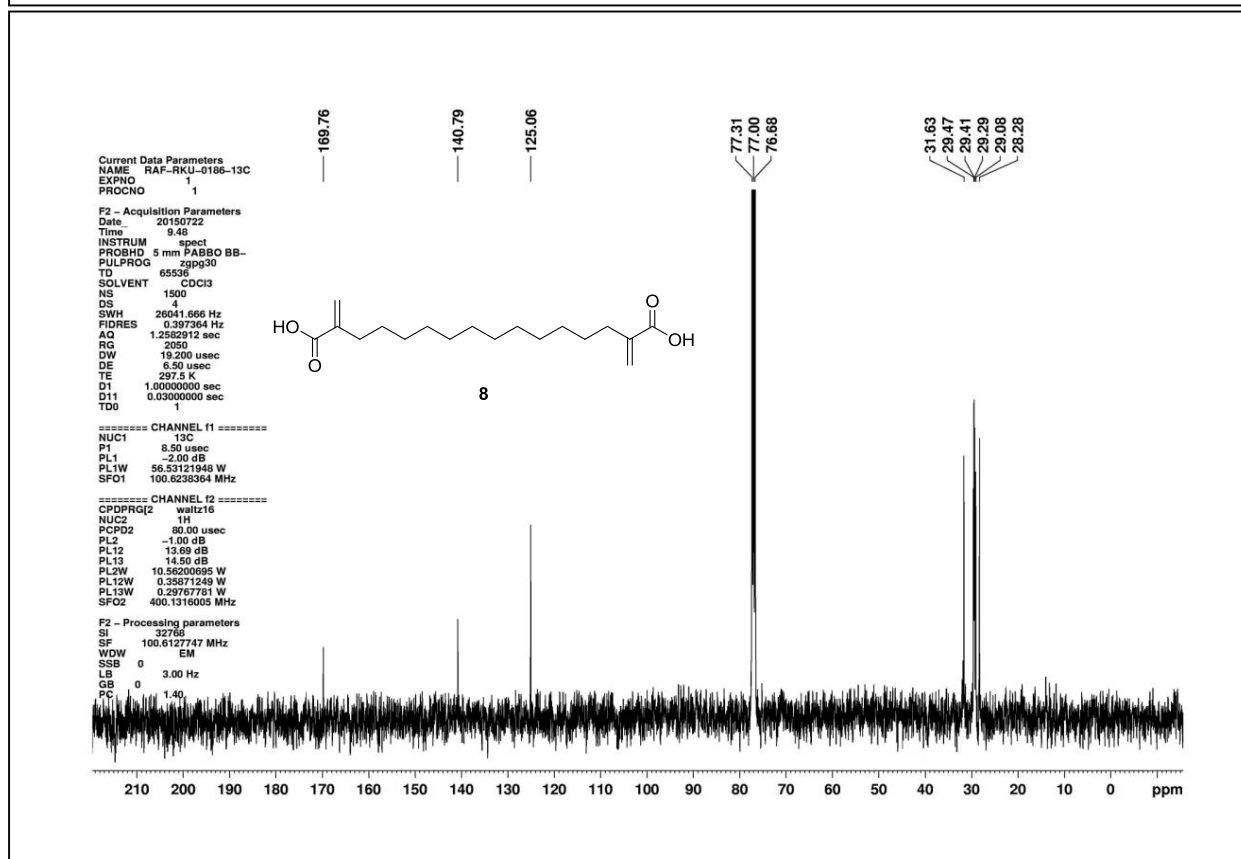
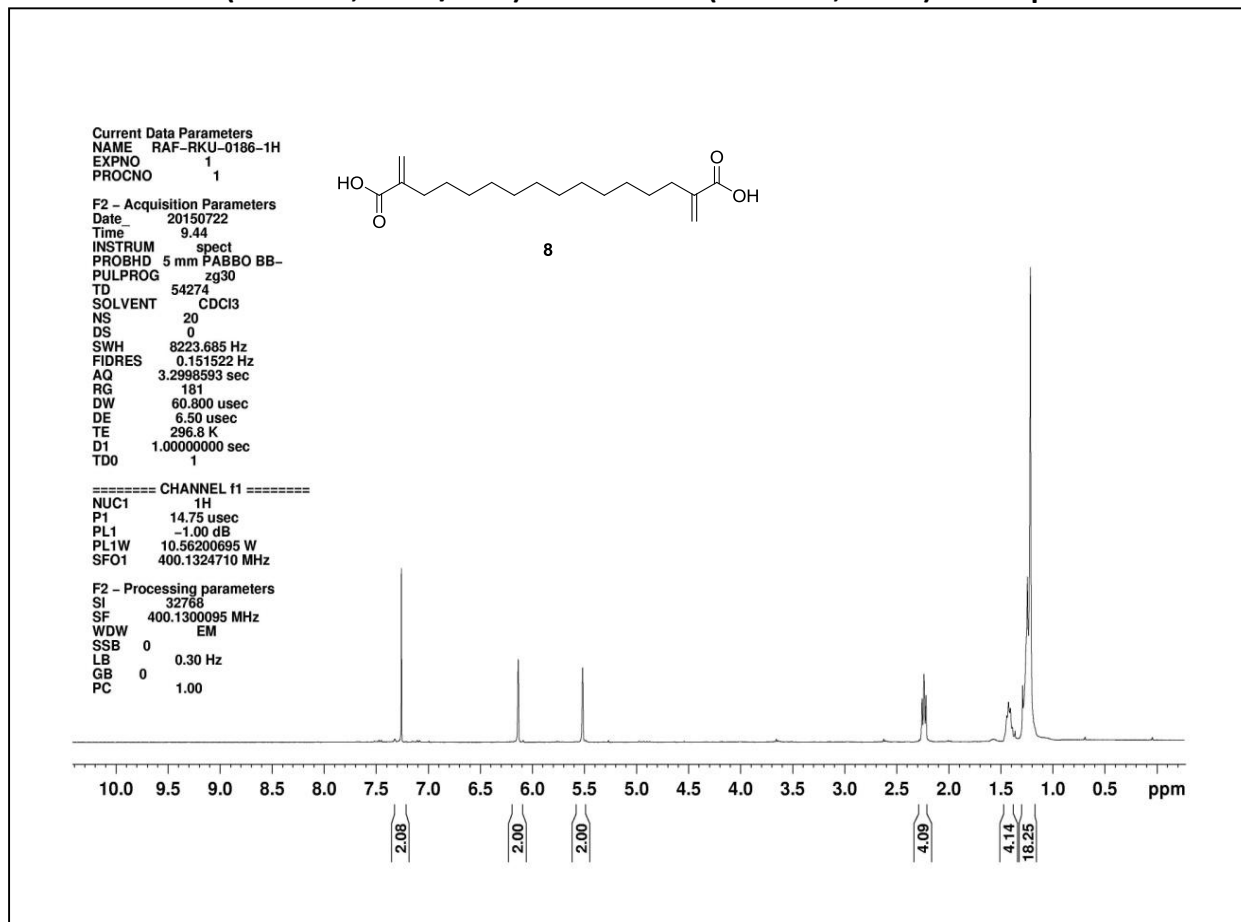
¹H NMR (400 MHz, CDCl₃/TMS) and ¹³C NMR (100 MHz, CDCl₃) of compound 5



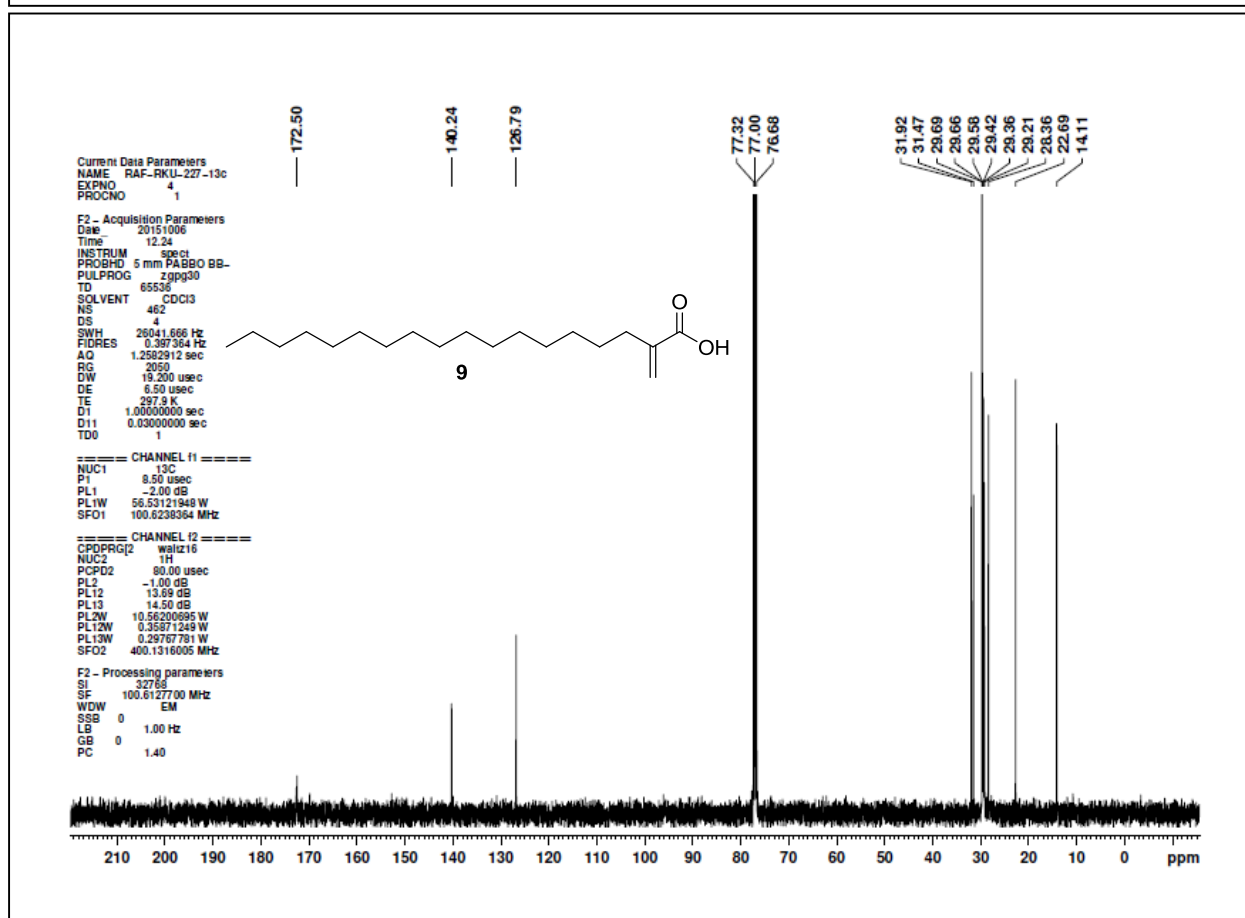
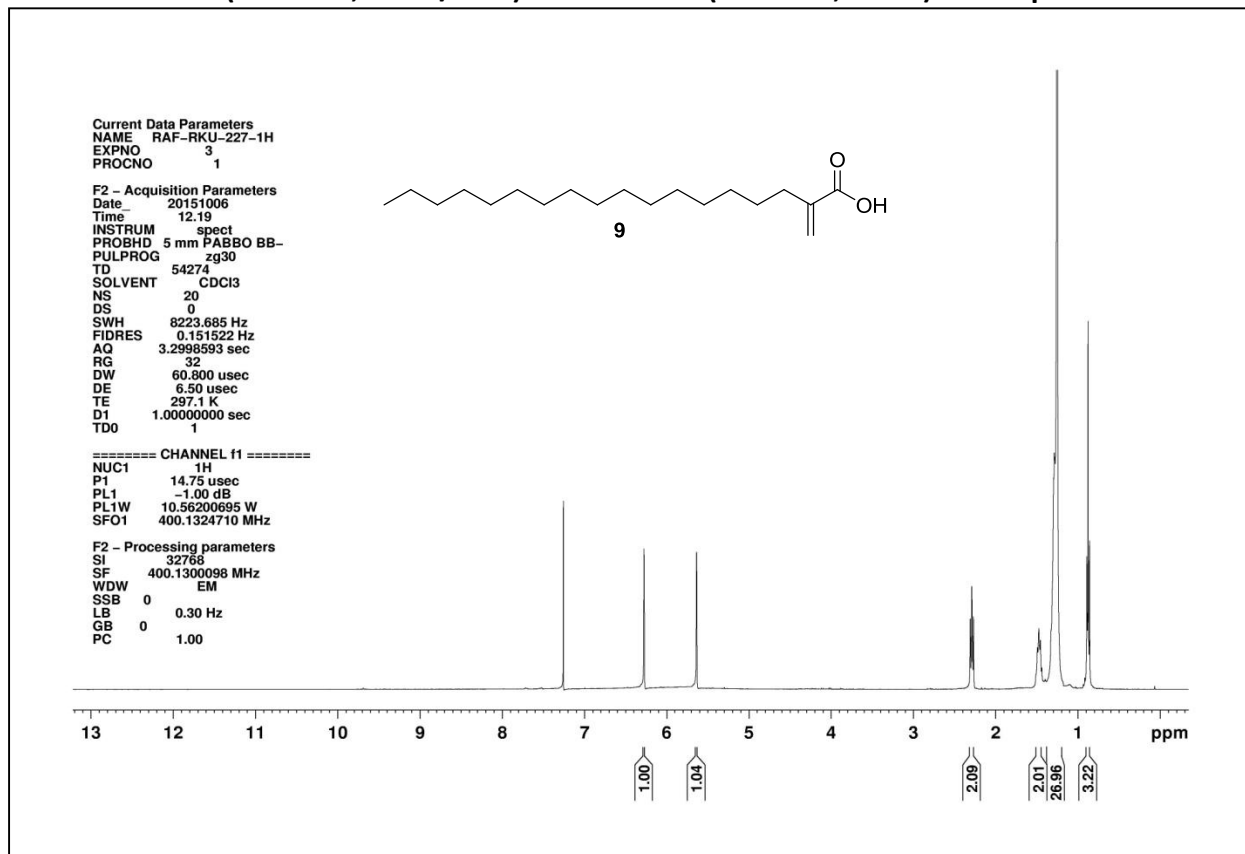
¹H NMR (400 MHz, CDCl₃/TMS) and ¹³C NMR (100 MHz, CDCl₃) of compound 6



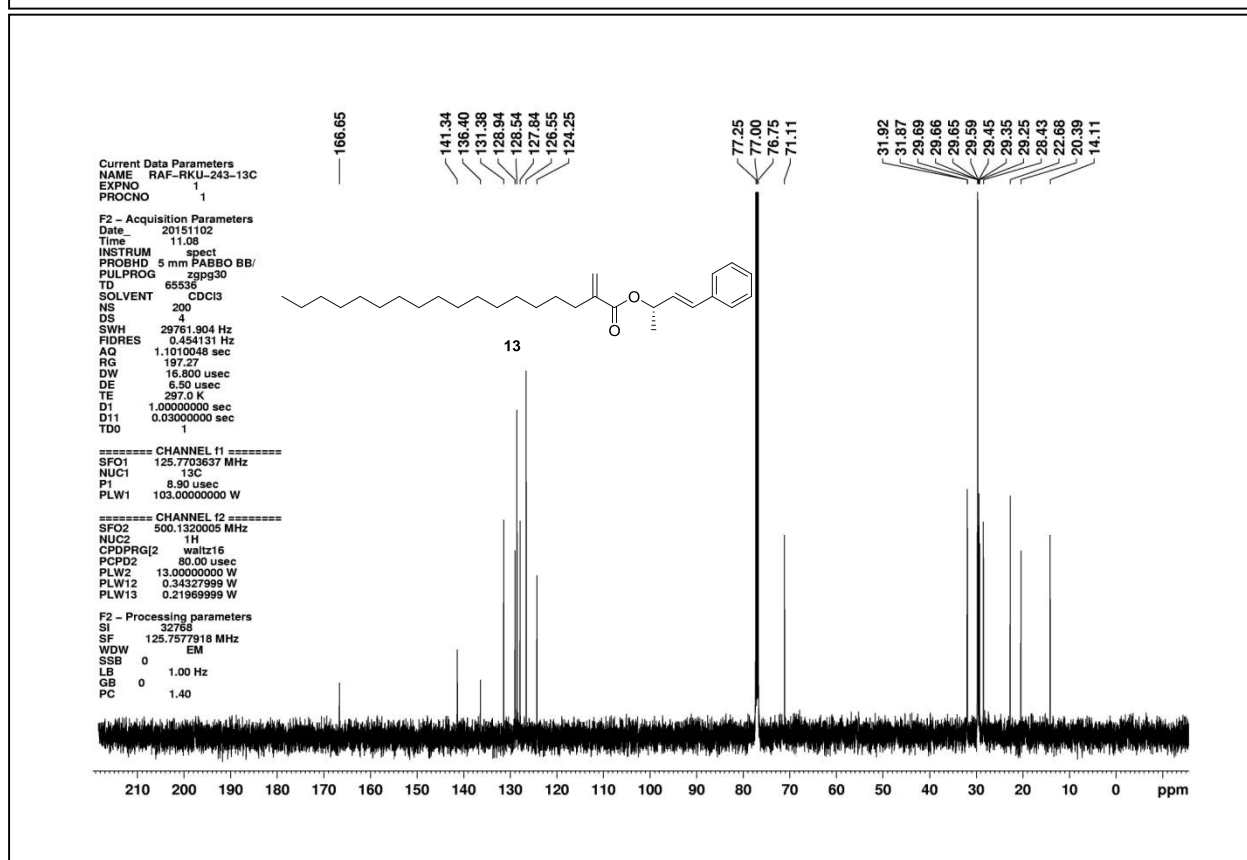
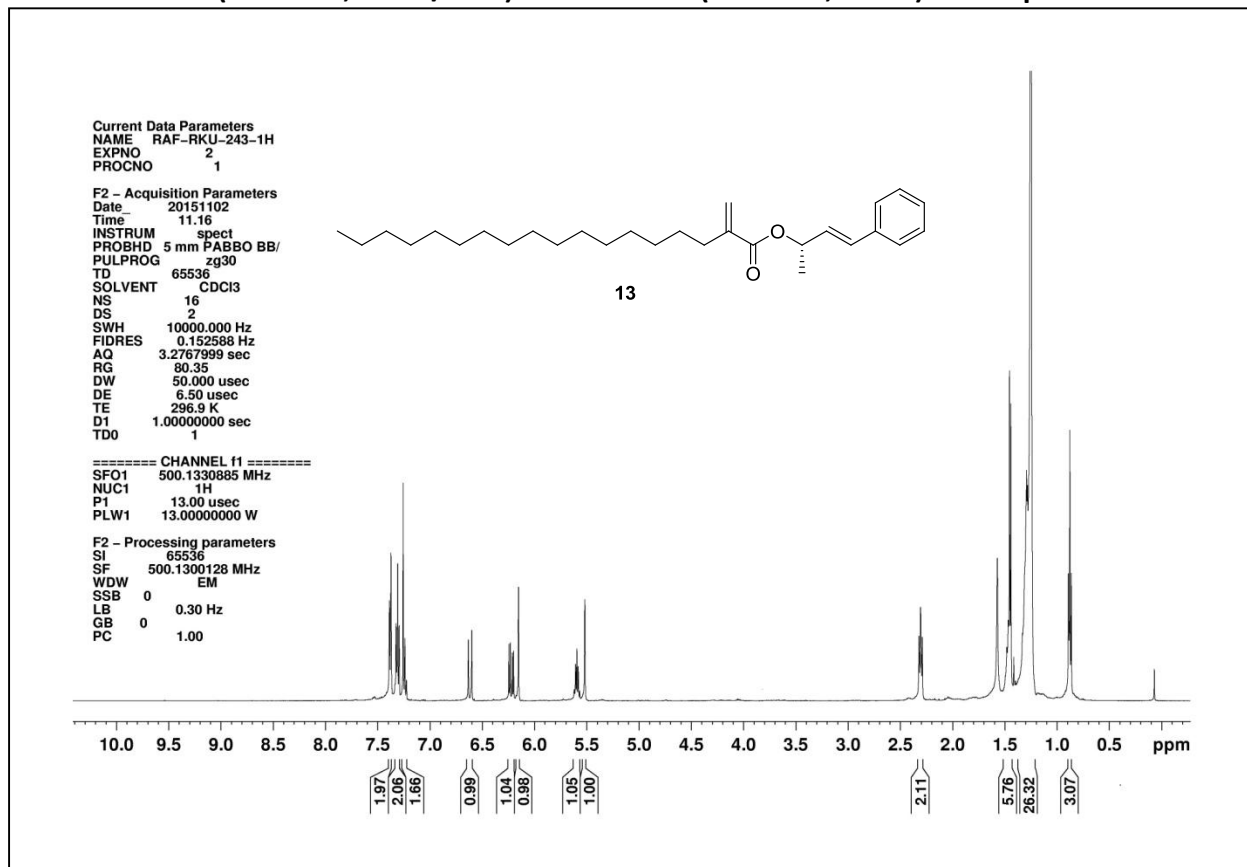
¹H NMR (400 MHz, CDCl₃/TMS) and ¹³C NMR (100 MHz, CDCl₃) of compound 8



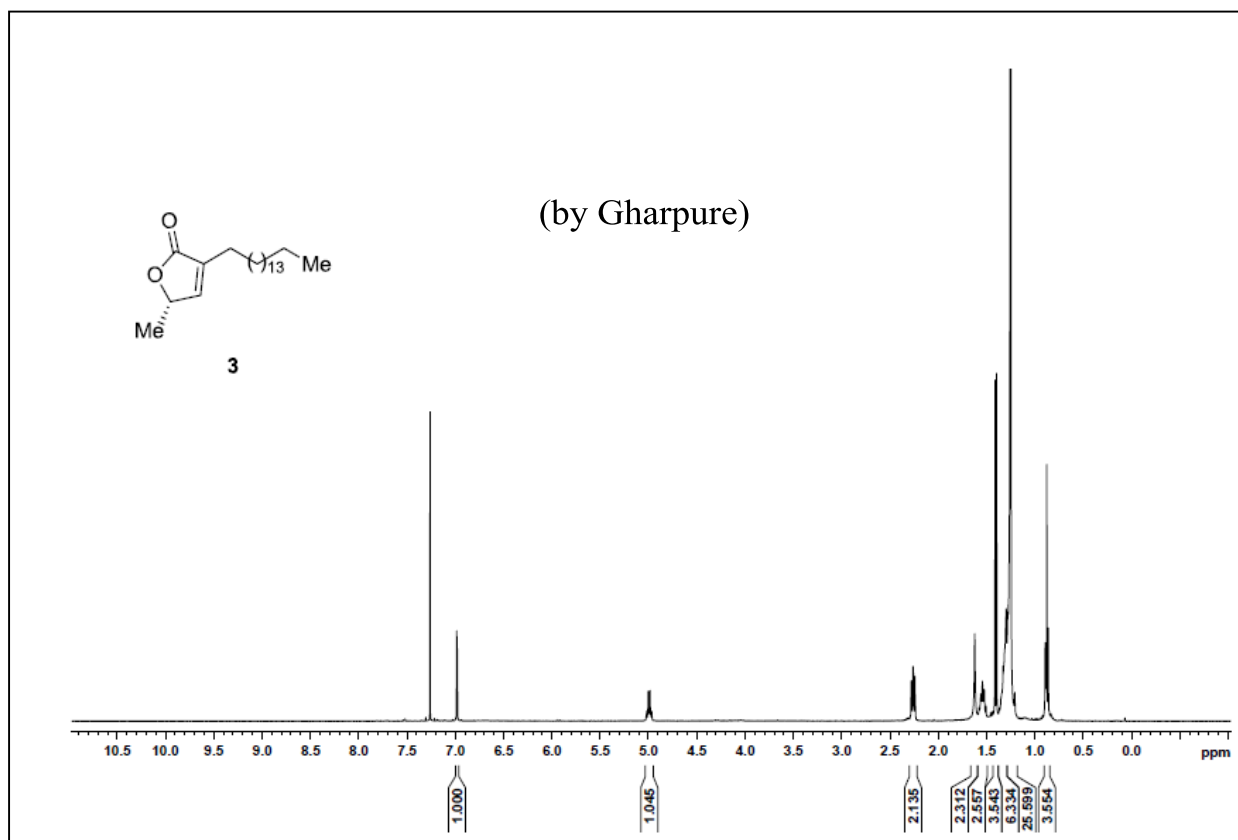
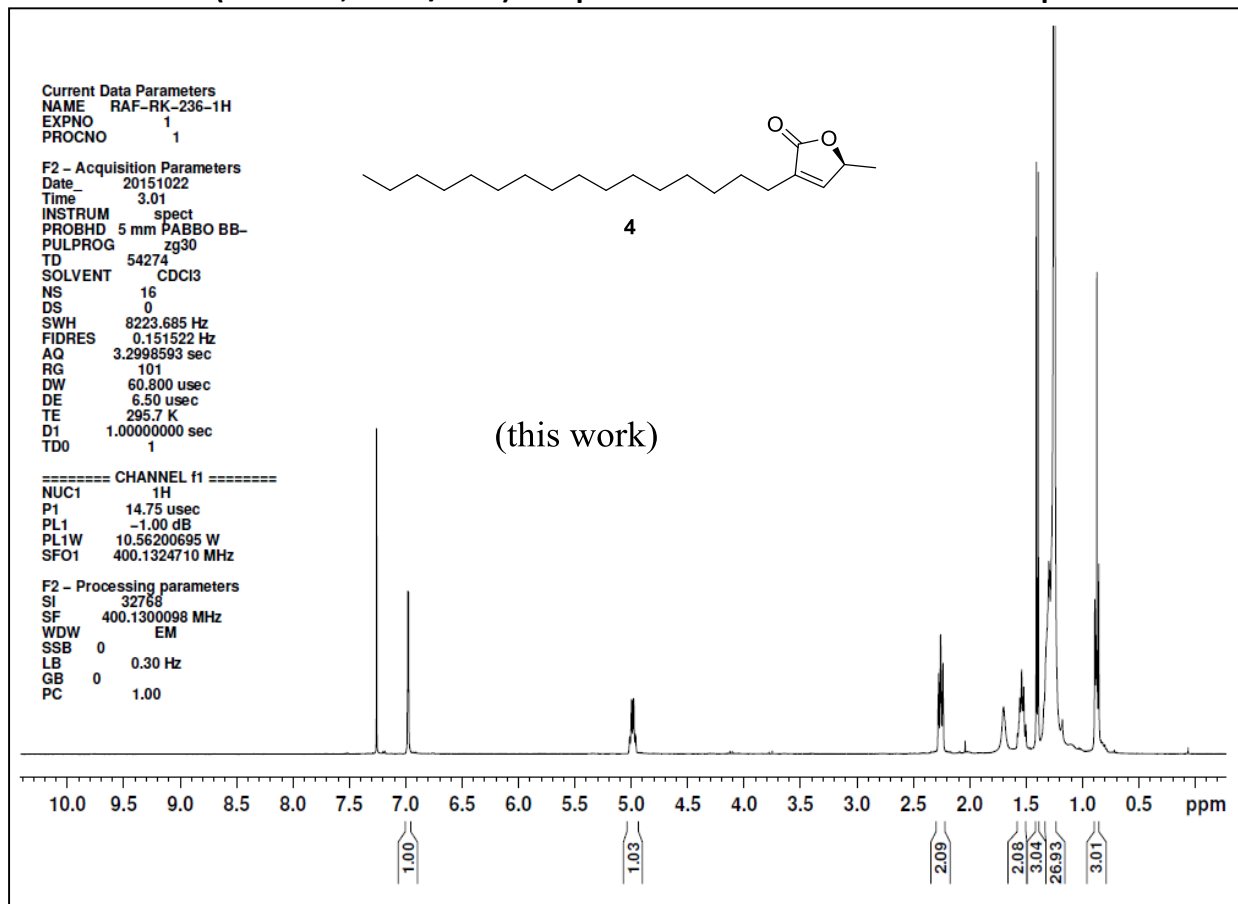
¹H NMR (400 MHz, CDCl₃/TMS) and ¹³C NMR (100 MHz, CDCl₃) of compound 9



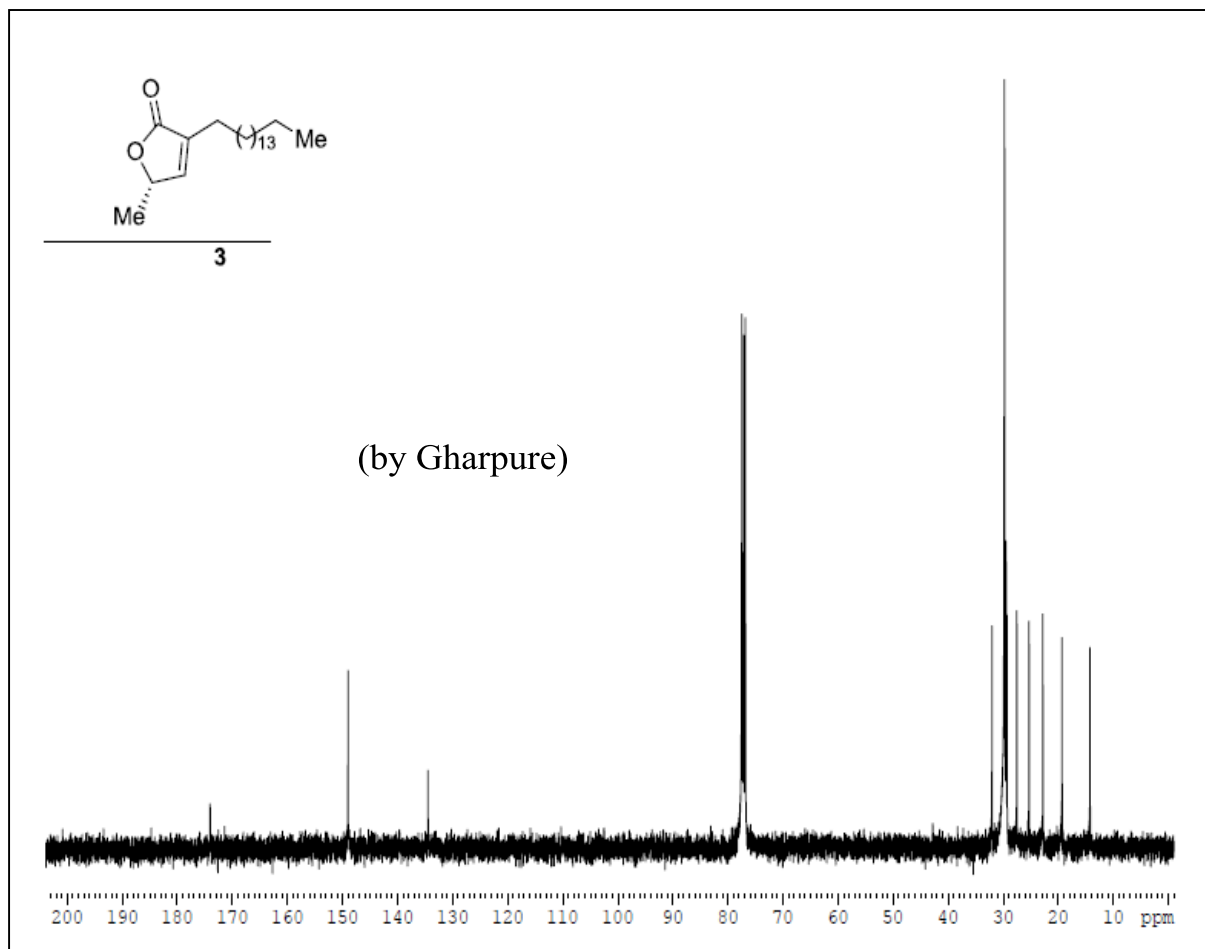
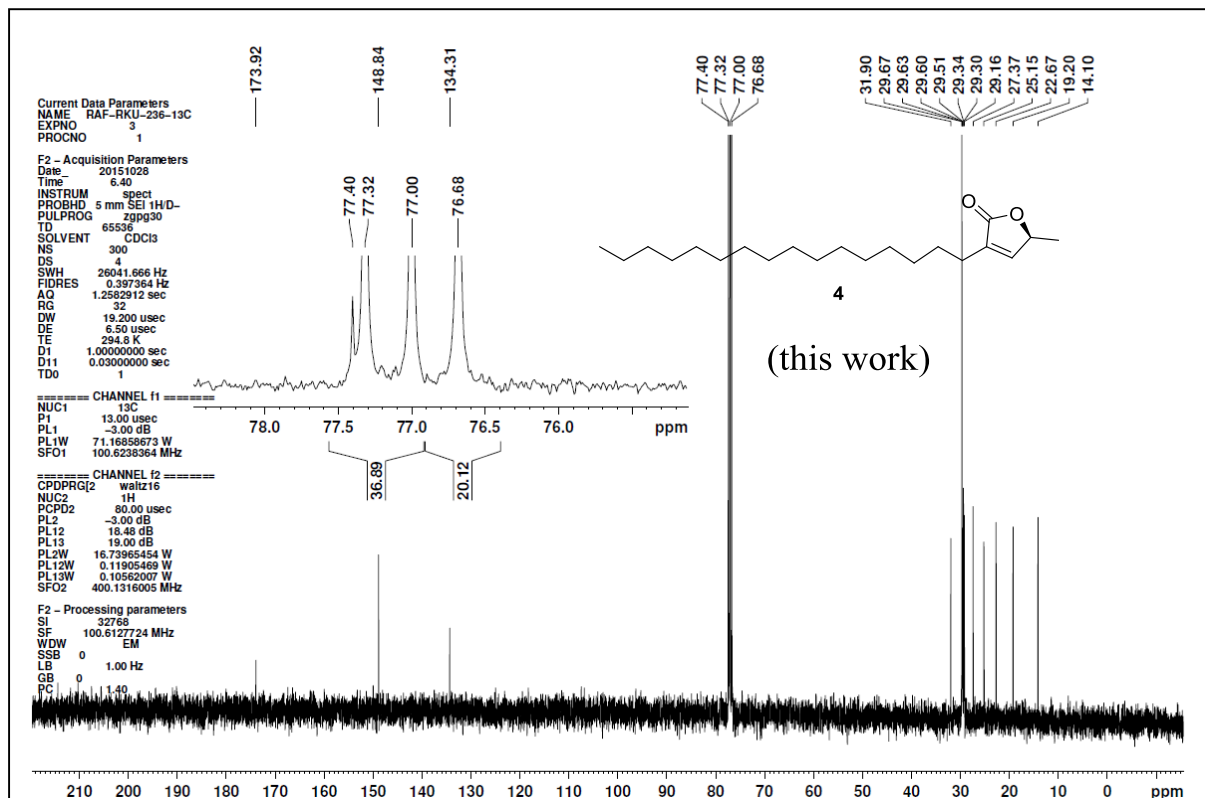
¹H NMR (500 MHz, CDCl₃/TMS) and ¹³C NMR (125 MHz, CDCl₃) of compound 13



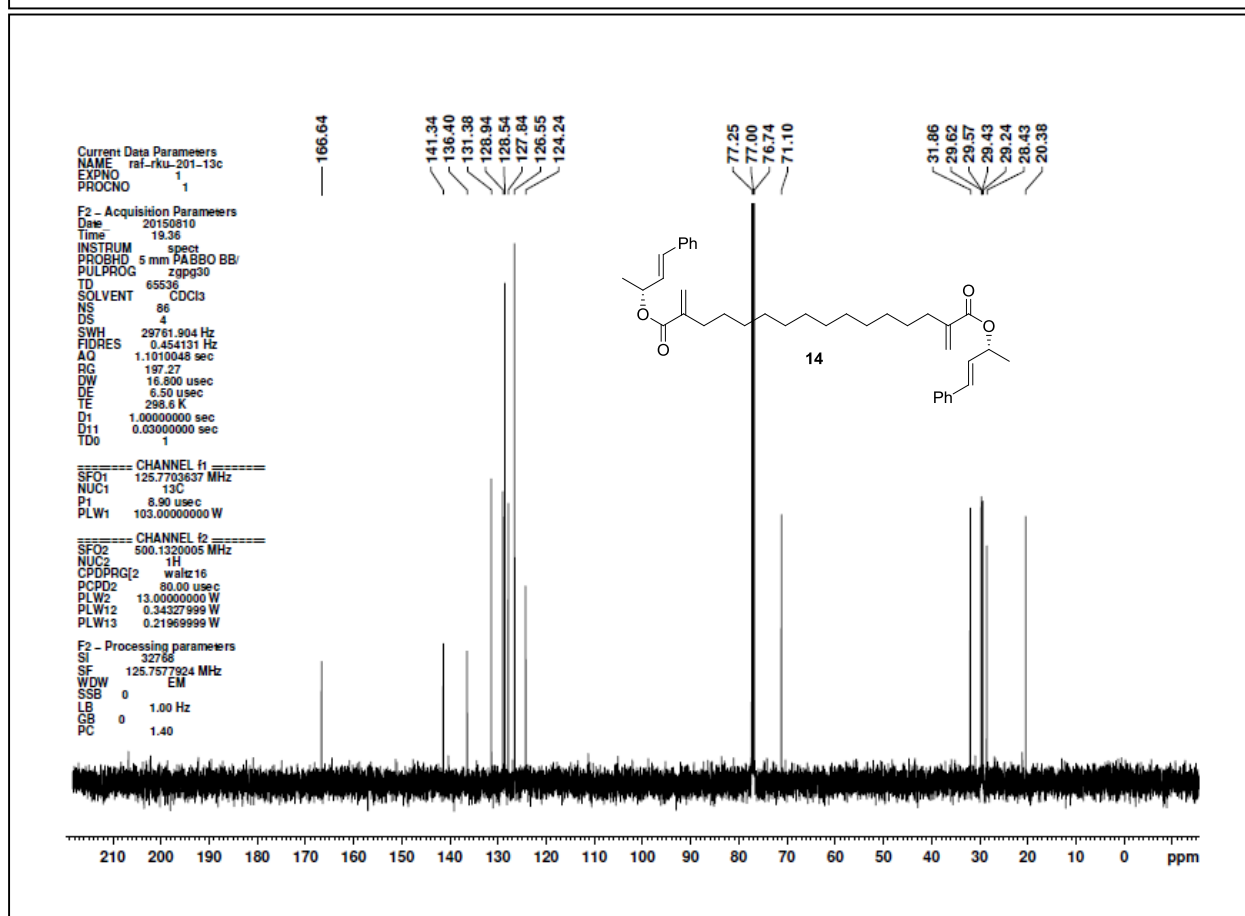
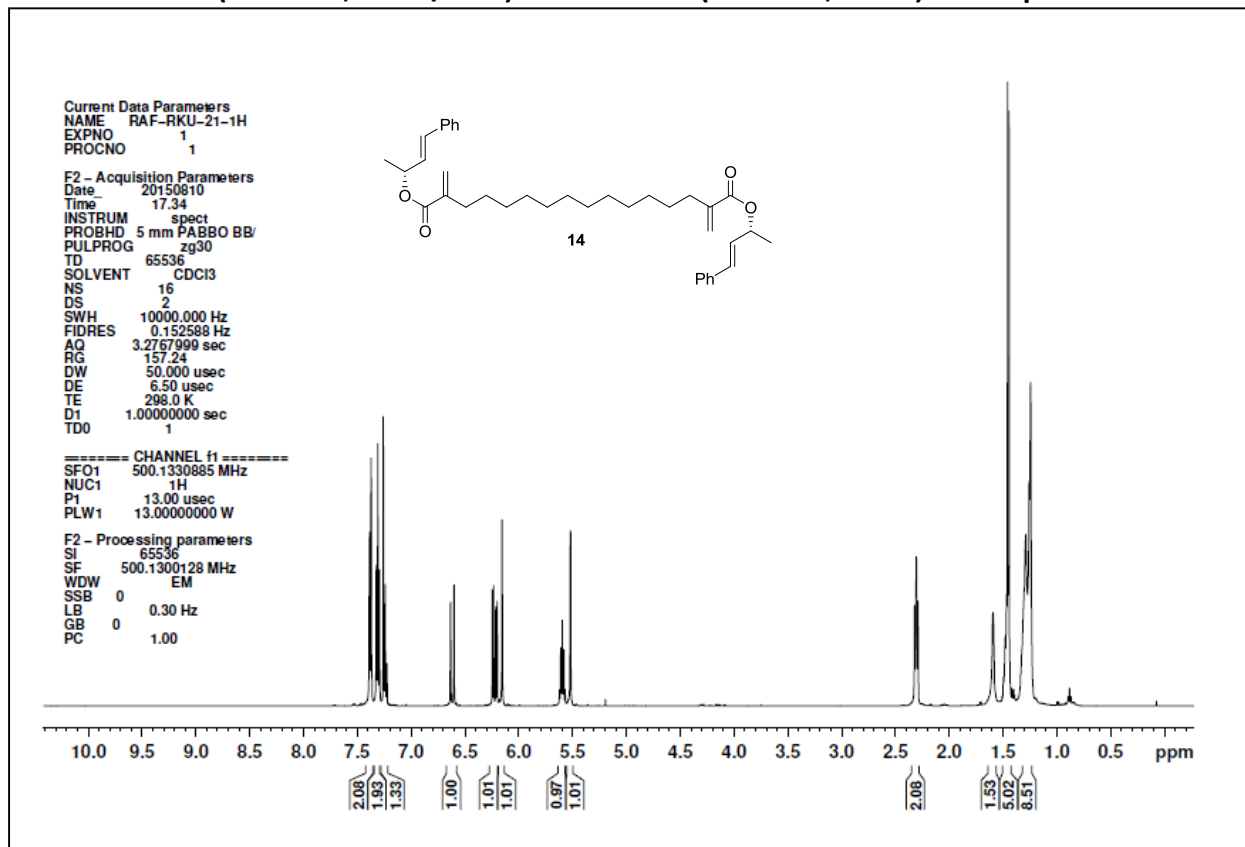
¹H NMR (400 MHz, CDCl₃/TMS) comparison with literature data of compound 4



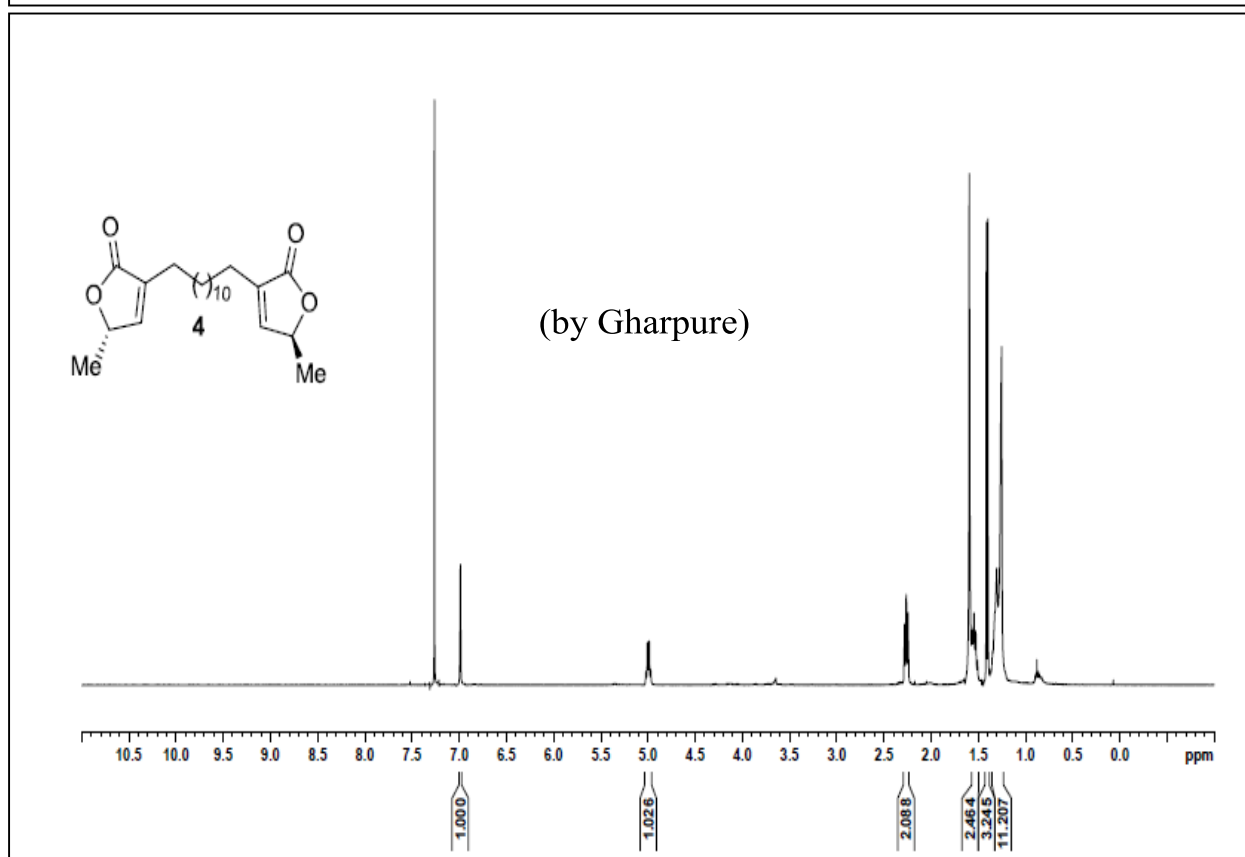
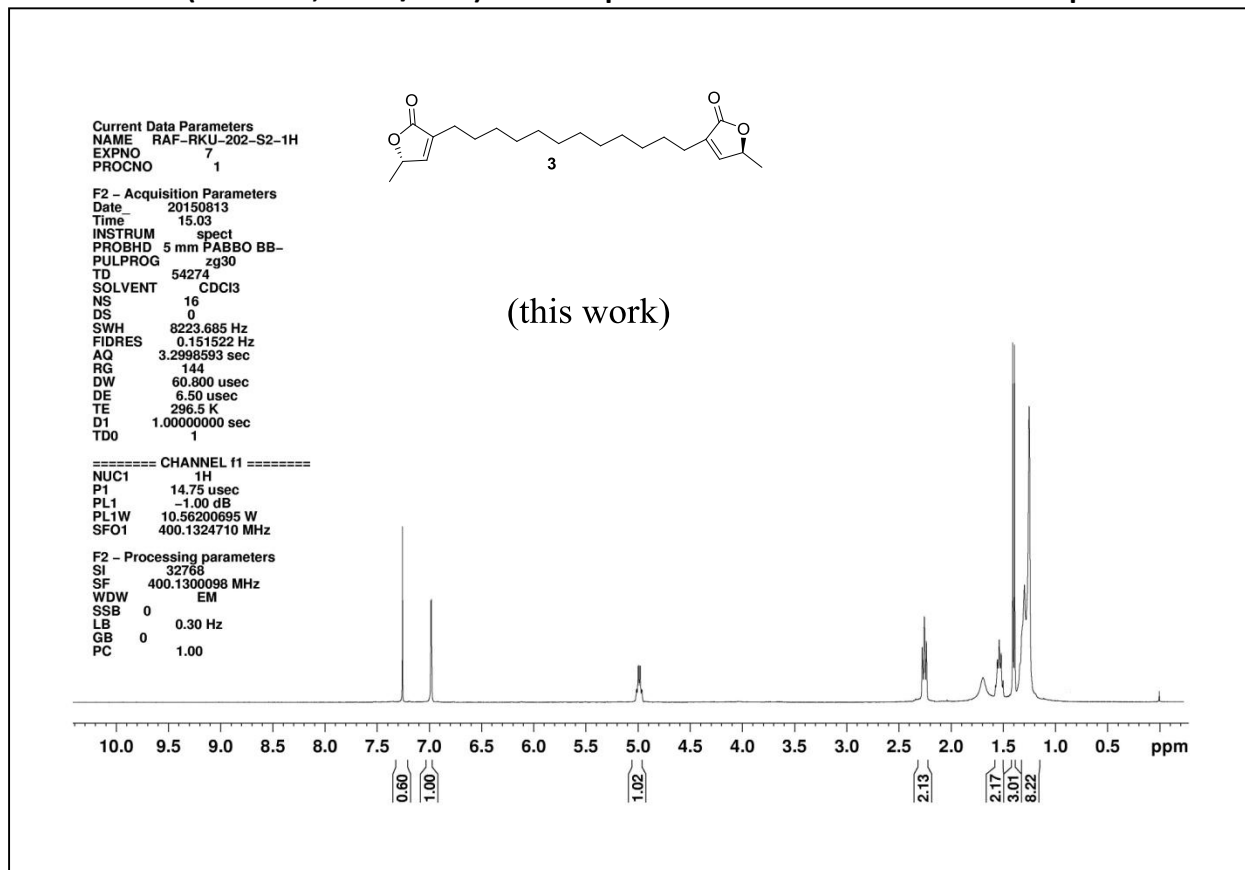
¹³C NMR (100 MHz, CDCl₃) and comparison with literature data of compound 4



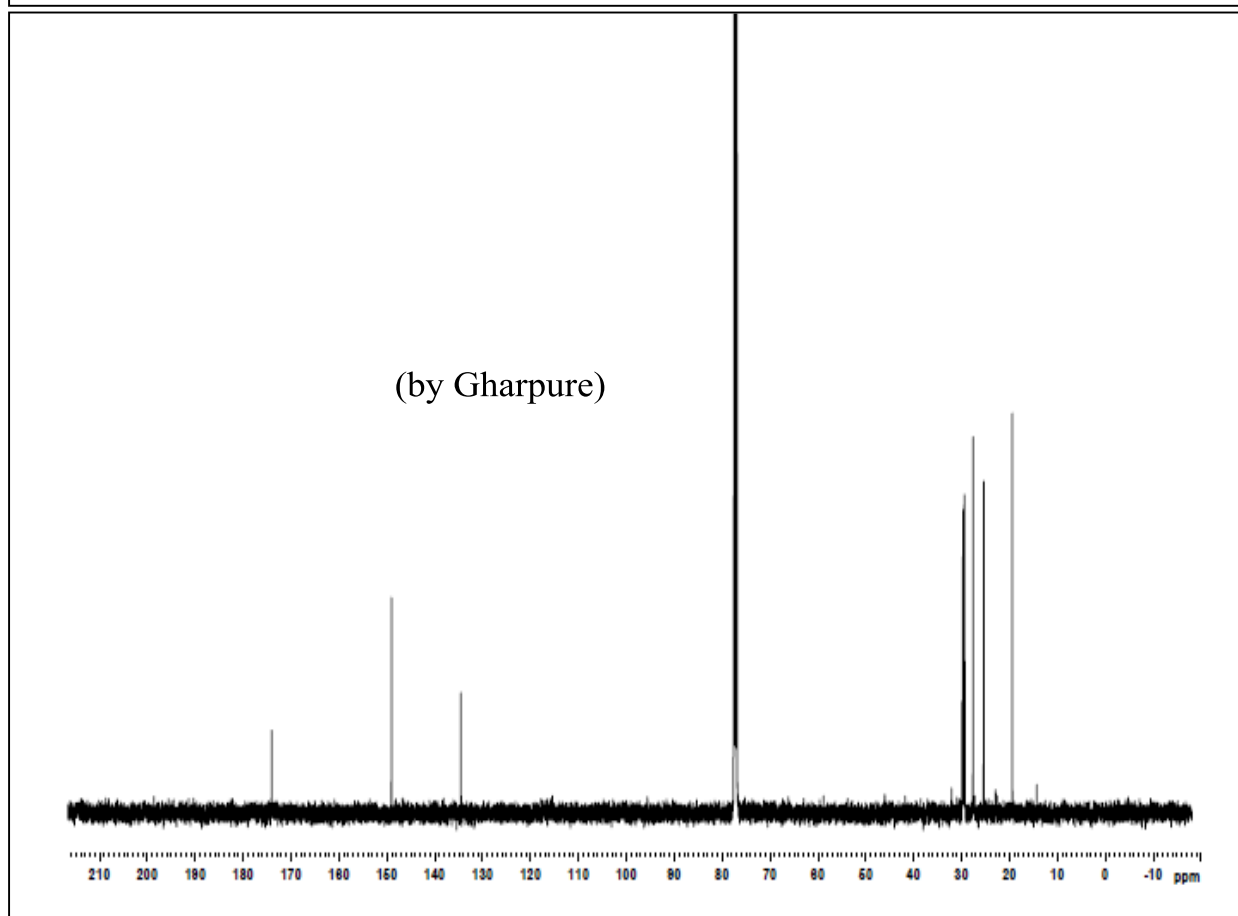
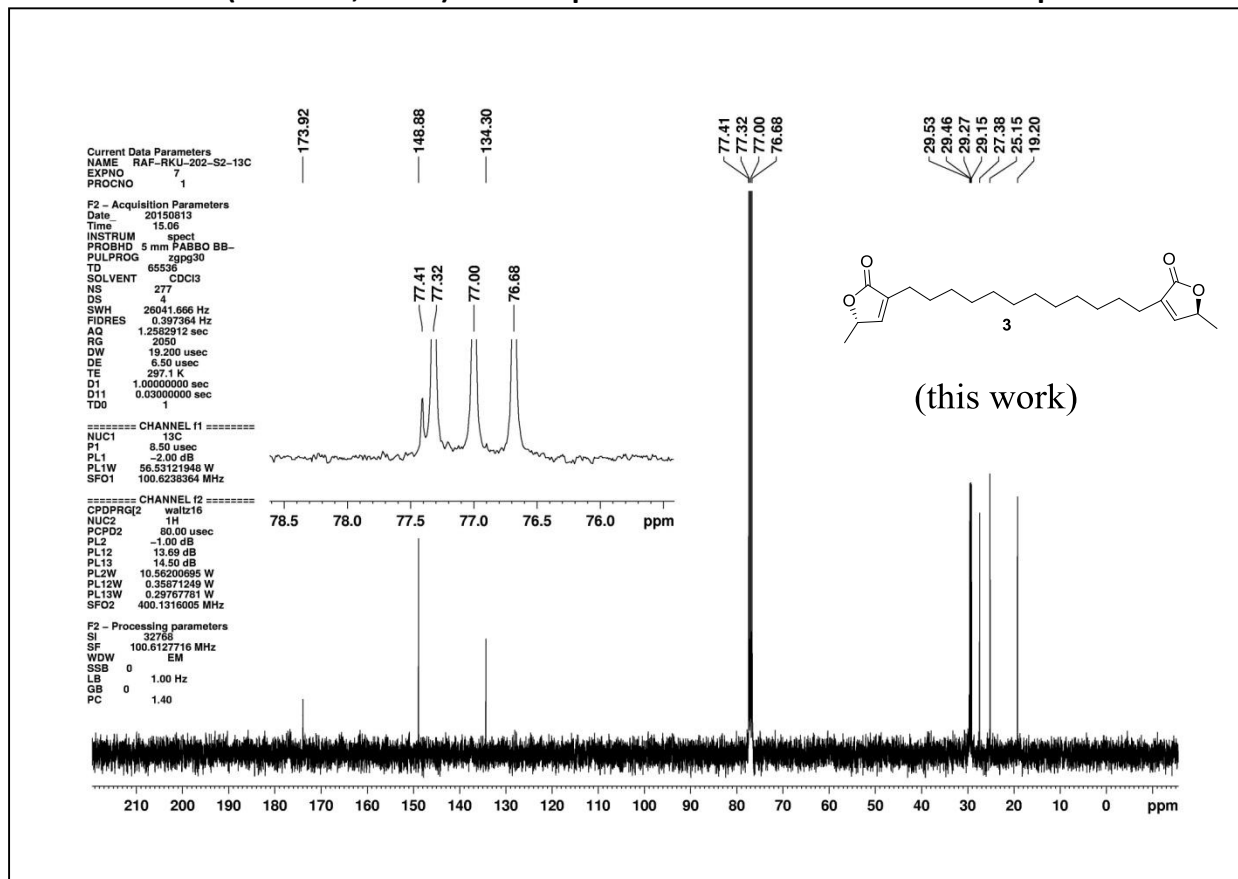
¹H NMR (500 MHz, CDCl₃/TMS) and ¹³C NMR (125 MHz, CDCl₃) of compound 14



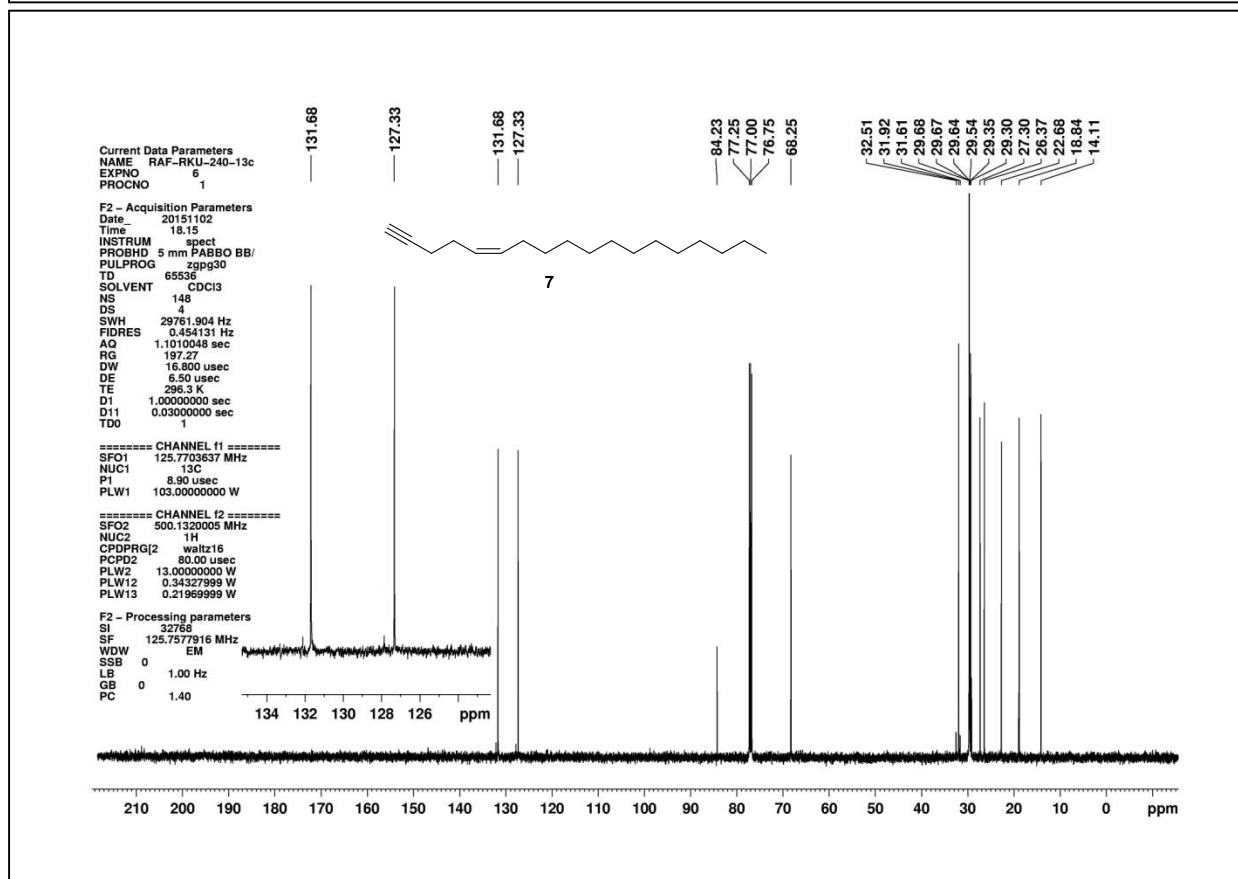
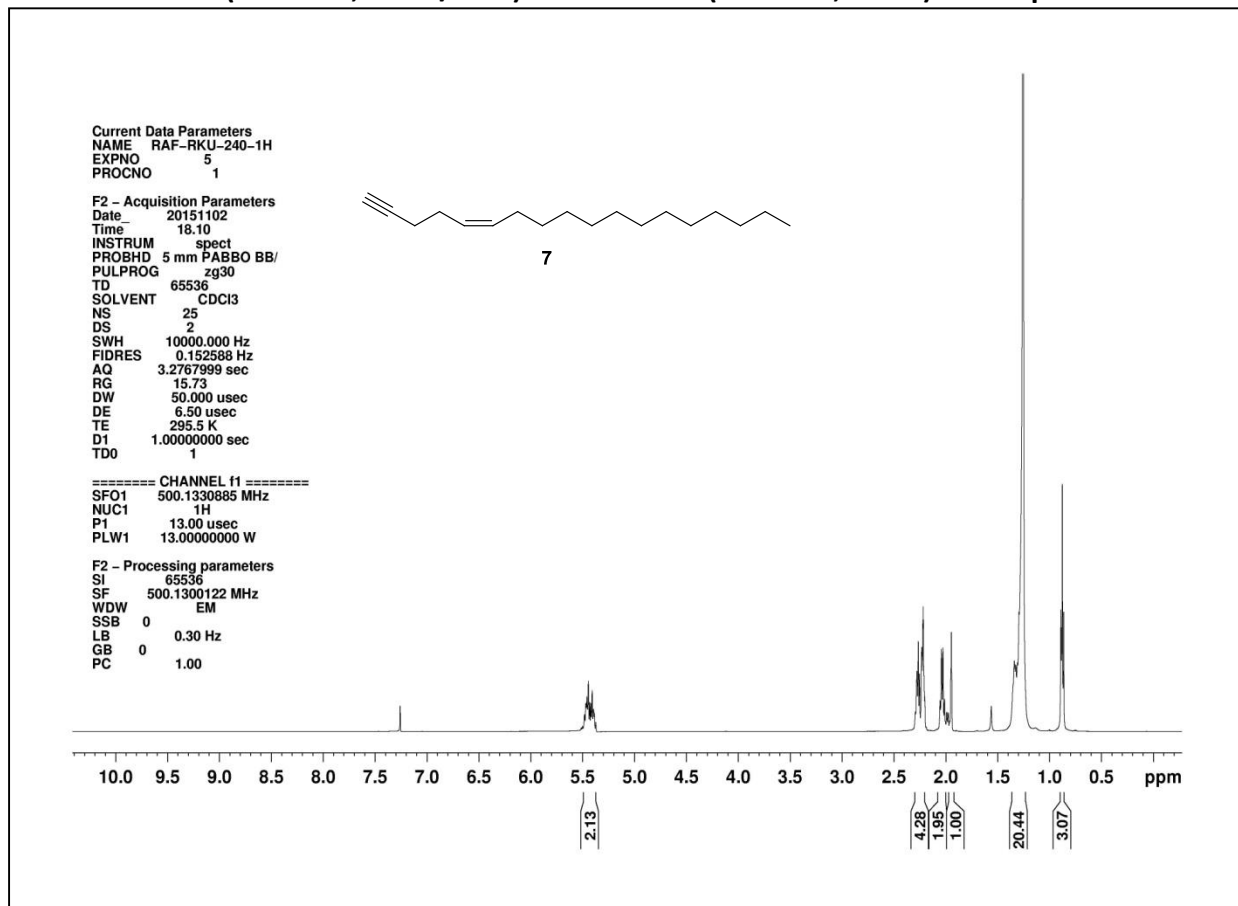
¹H NMR (400 MHz, CDCl₃/TMS) and comparison with literature data of compound 3



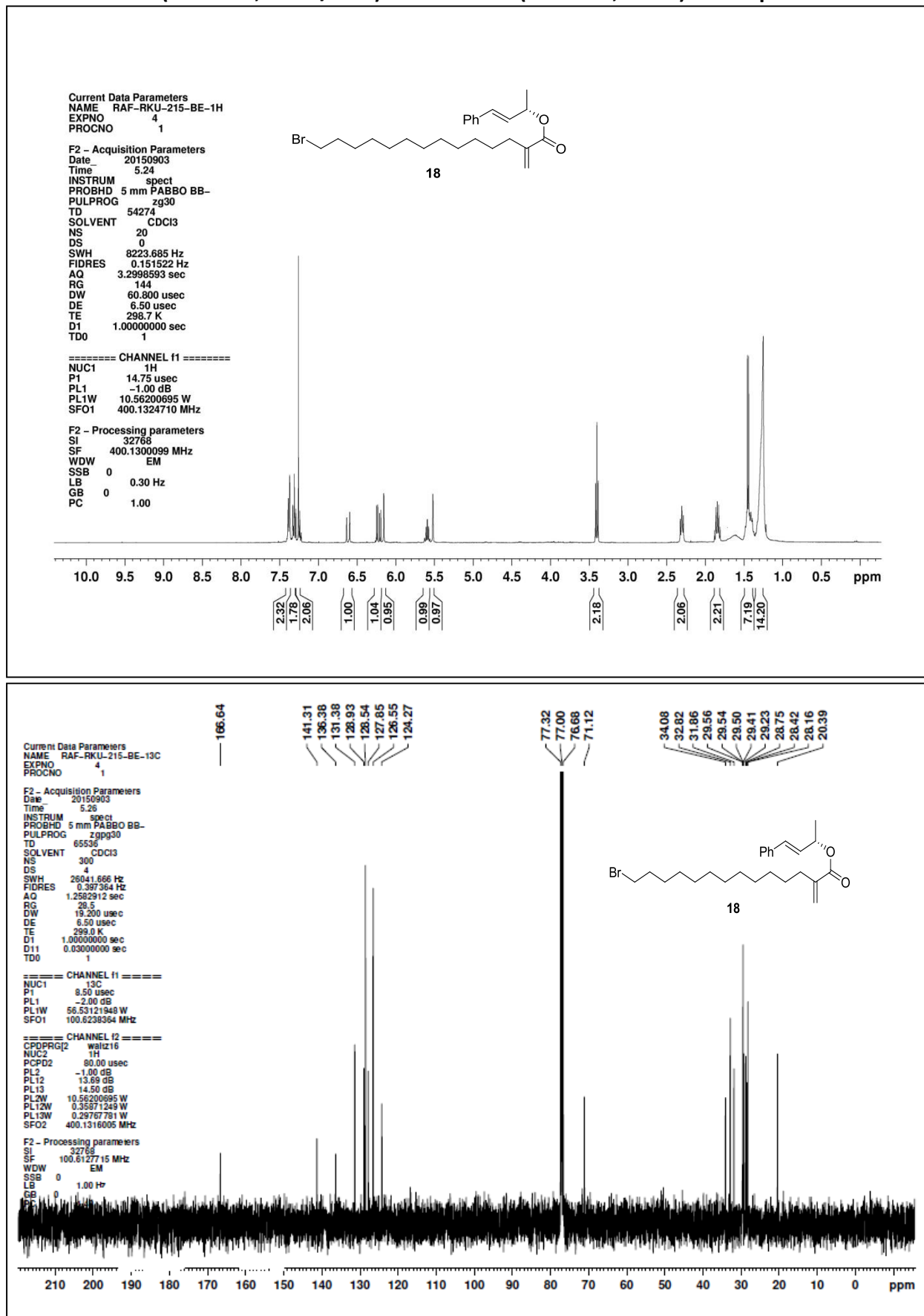
¹³C NMR (100 MHz, CDCl₃) and comparison with literature data of compound 3



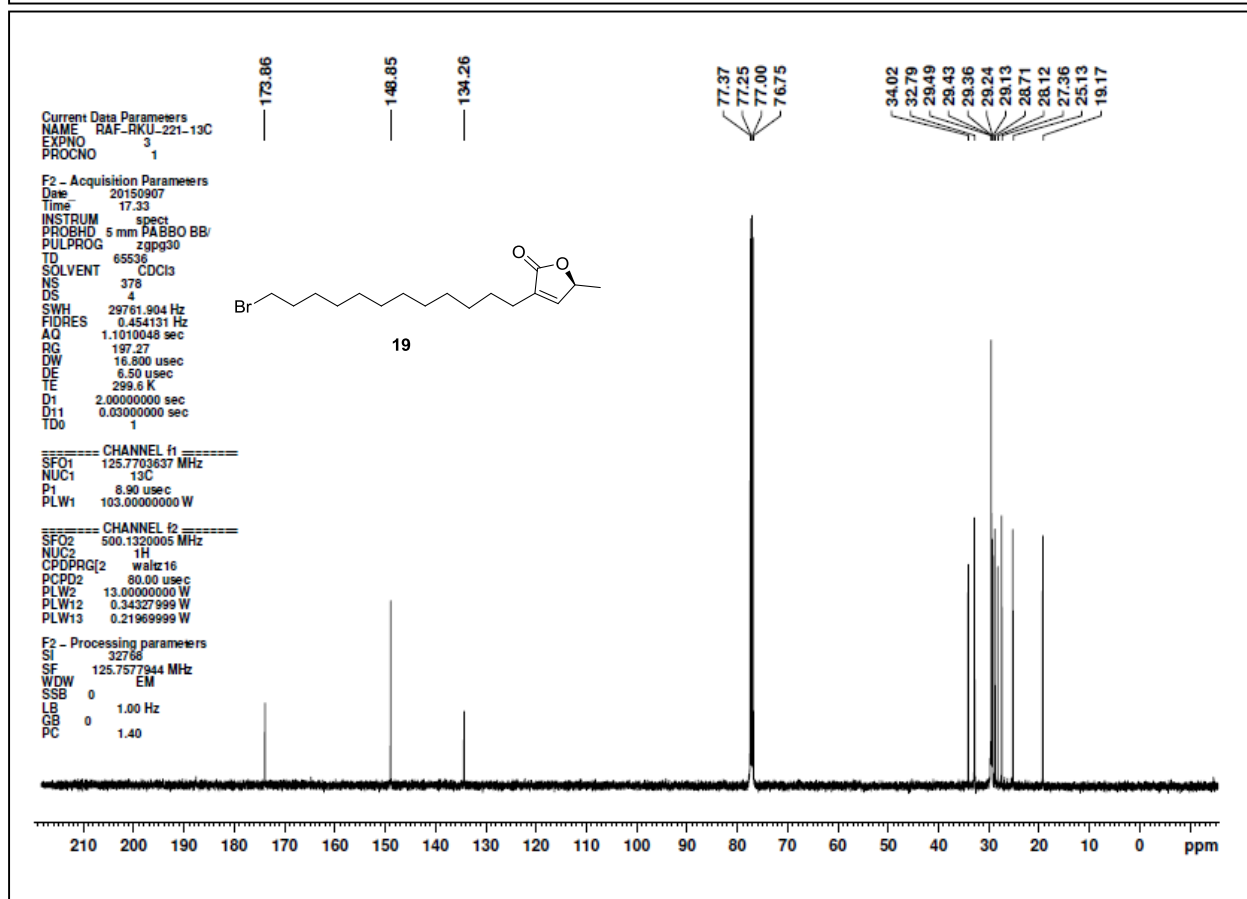
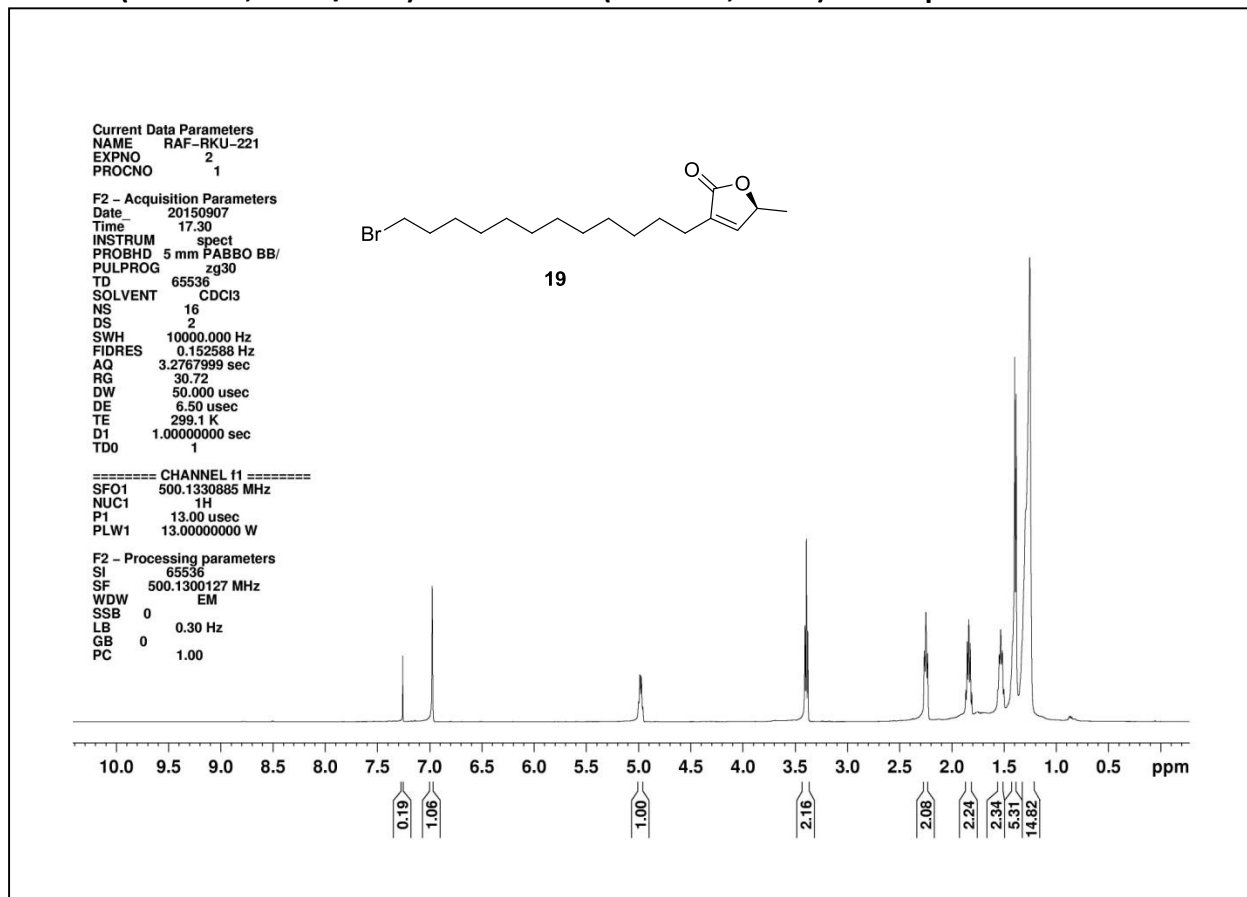
¹H NMR (500 MHz, CDCl₃/TMS) and ¹³C NMR (125 MHz, CDCl₃) of compound 7



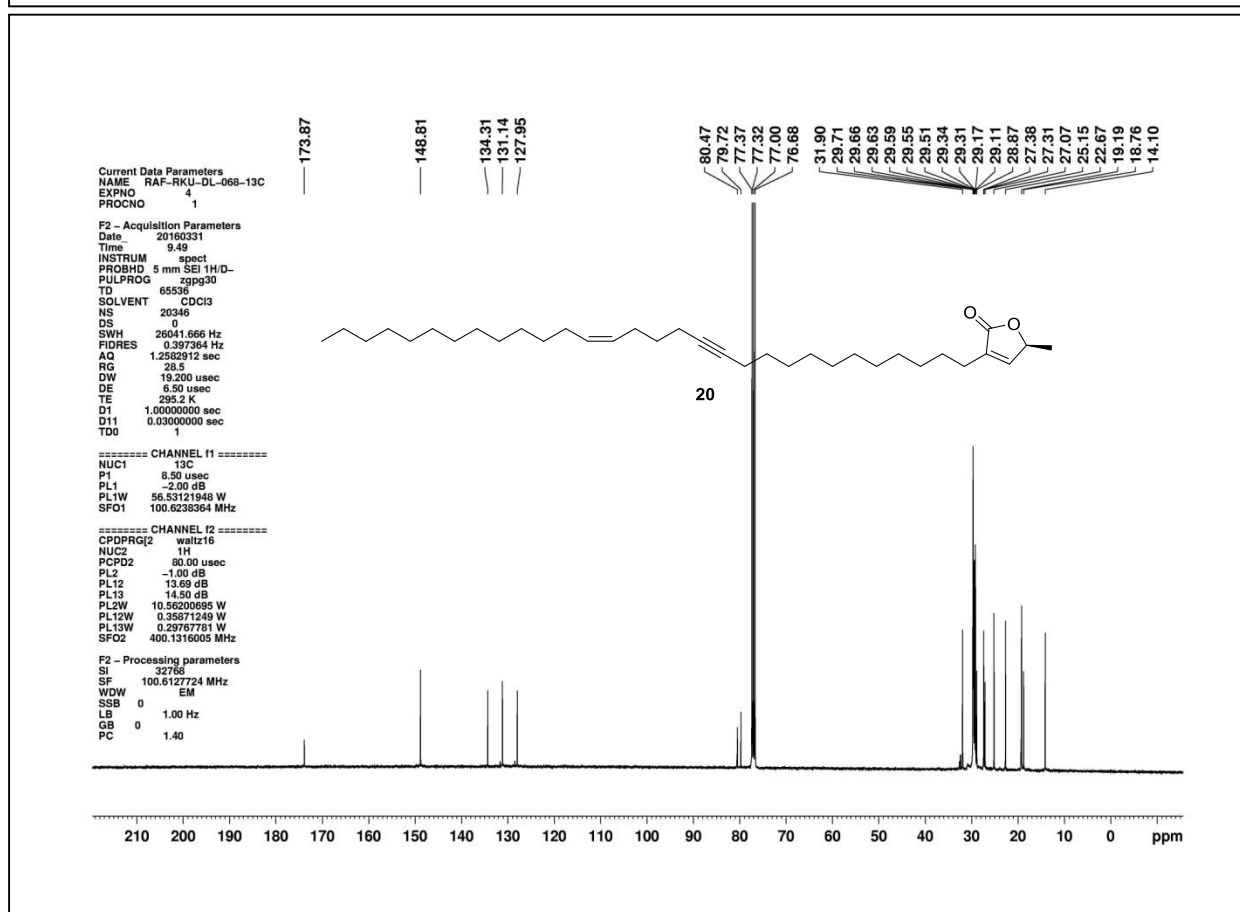
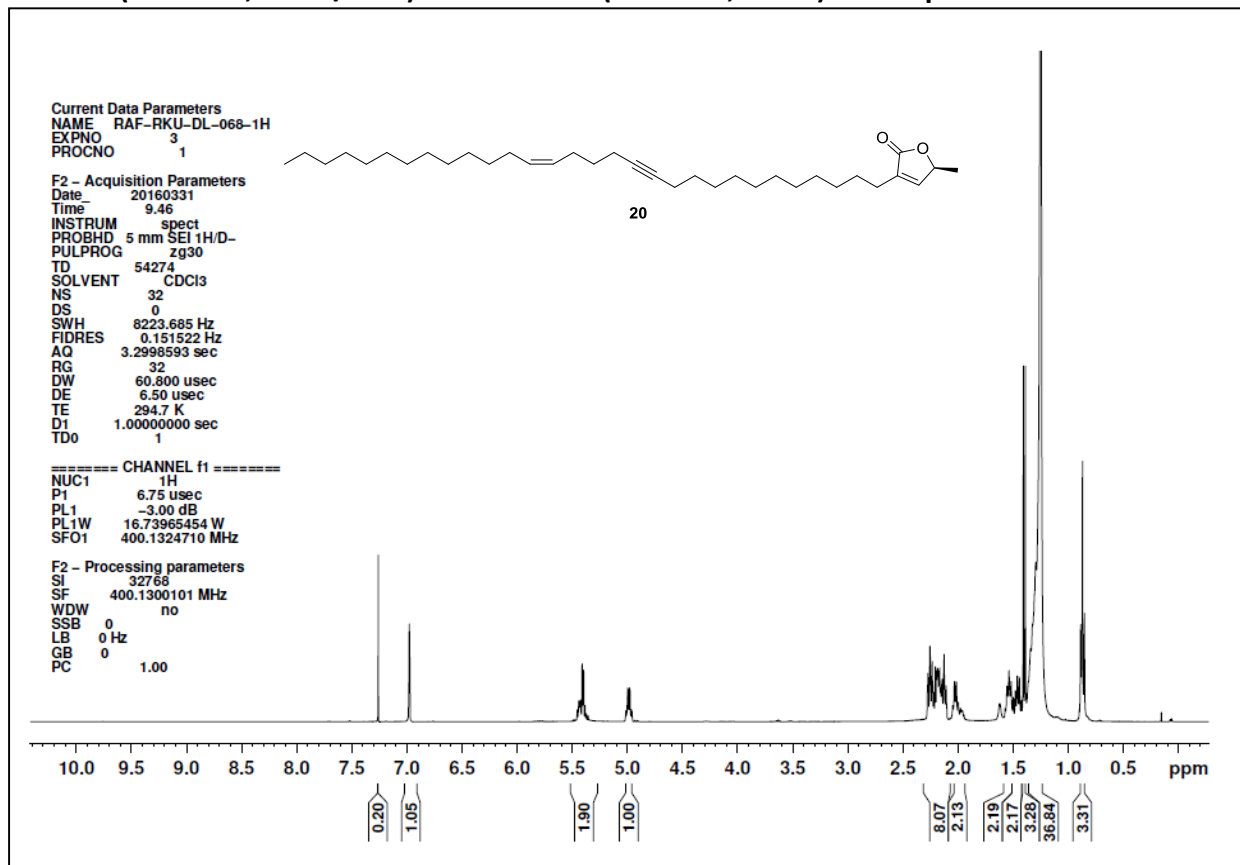
¹H NMR (400 MHz, CDCl₃/TMS) and ¹³C NMR (100 MHz, CDCl₃) of compound 18



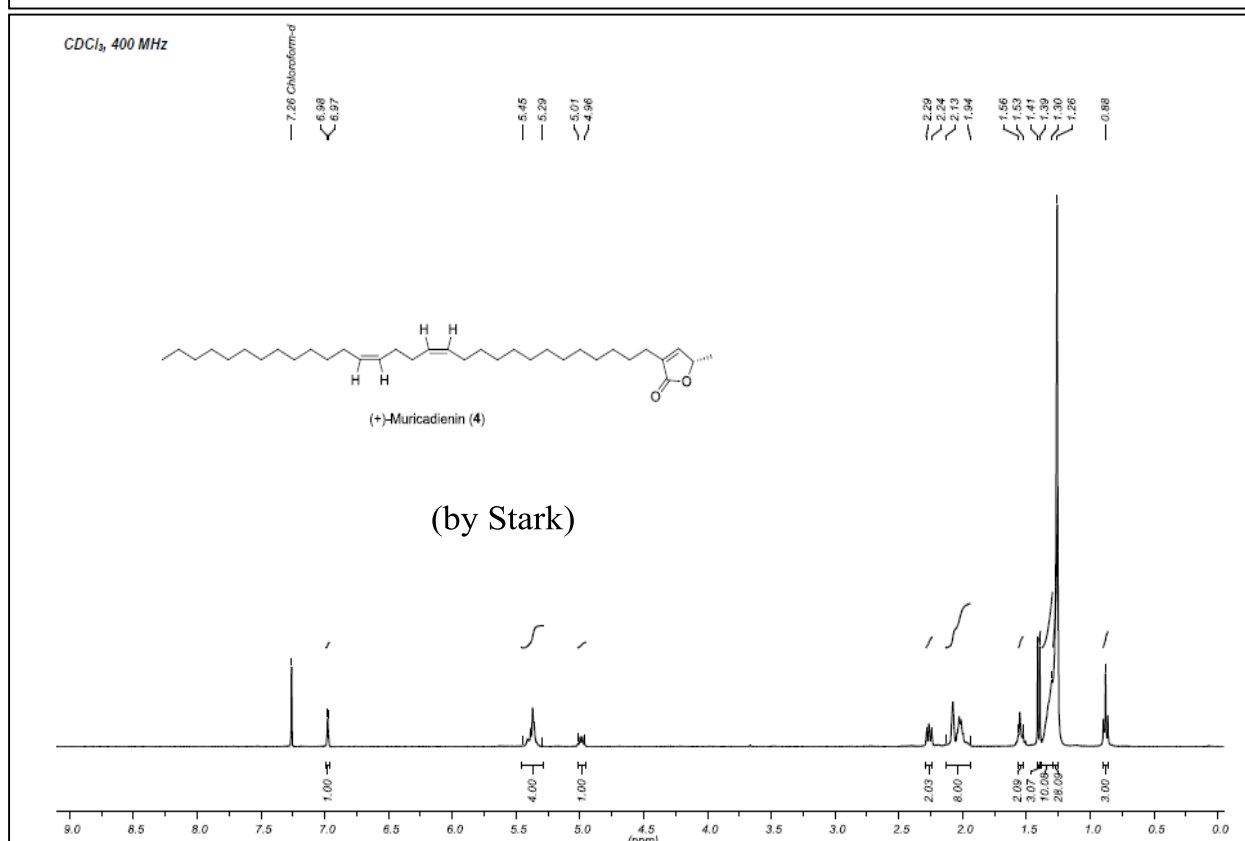
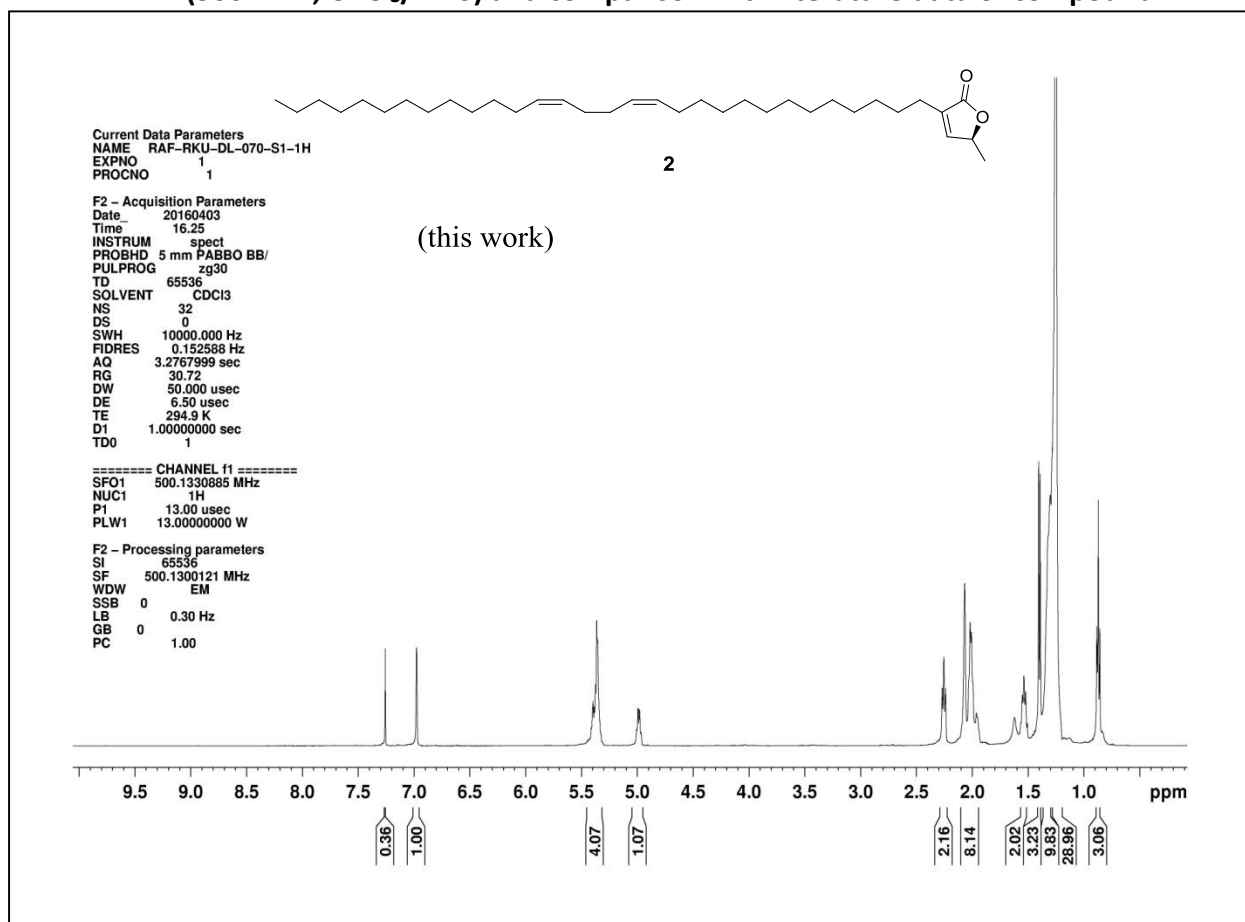
^1H NMR (500 MHz, CDCl_3/TMS) and ^{13}C NMR (125 MHz, CDCl_3) of compound 19



^1H NMR (400 MHz, CDCl_3/TMS) and ^{13}C NMR (100 MHz, CDCl_3) of compound 20



¹H NMR (500 MHz, CDCl₃/TMS) and comparison with literature data of compound 2



¹³C NMR (100 MHz, CDCl₃) and comparison with literature data of compound 2

