

Synthesis of Fluorinated 3-Aminobenzofurans via a Tandem S_NAr-Cyclocondensation Strategy

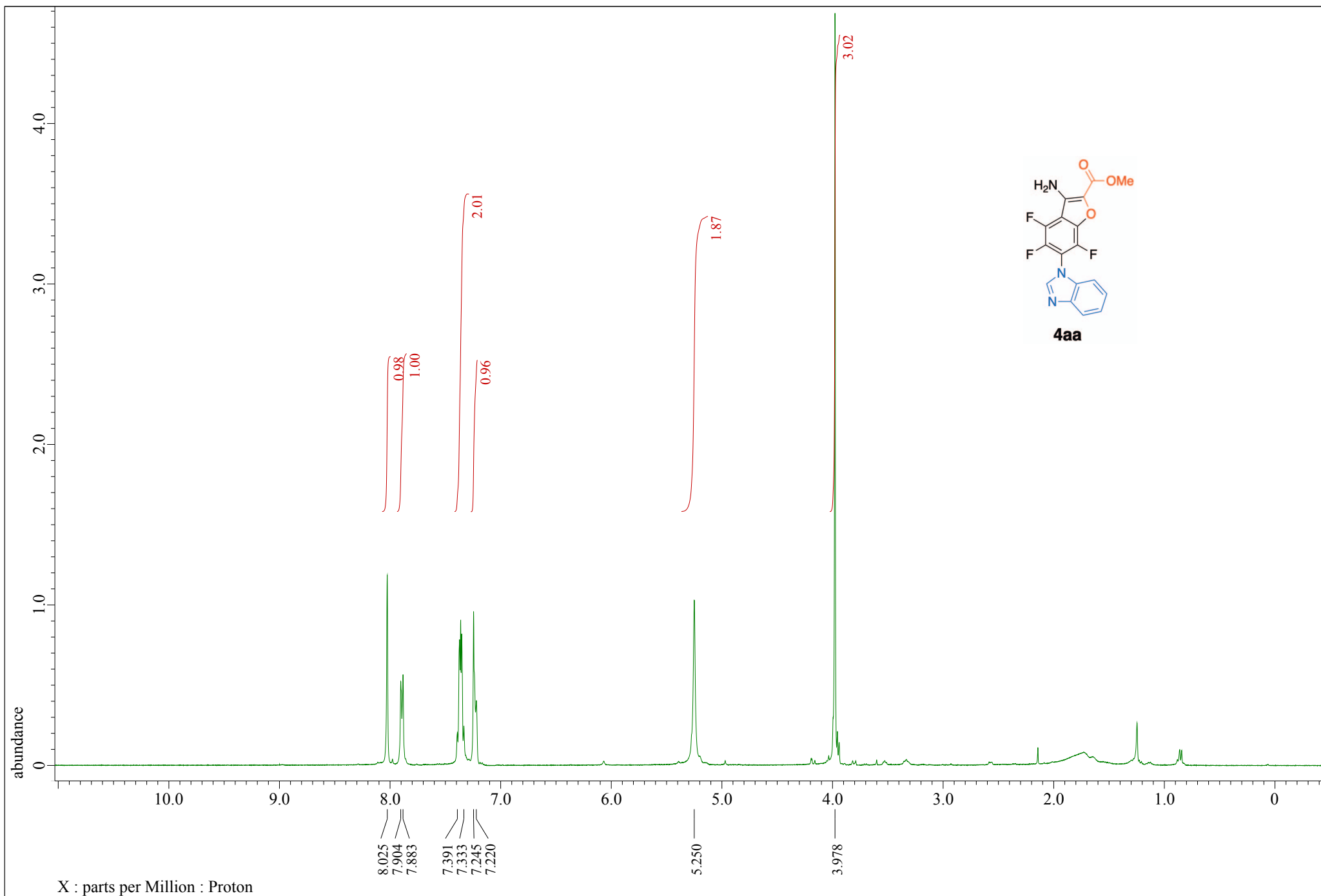
Supplementary Information

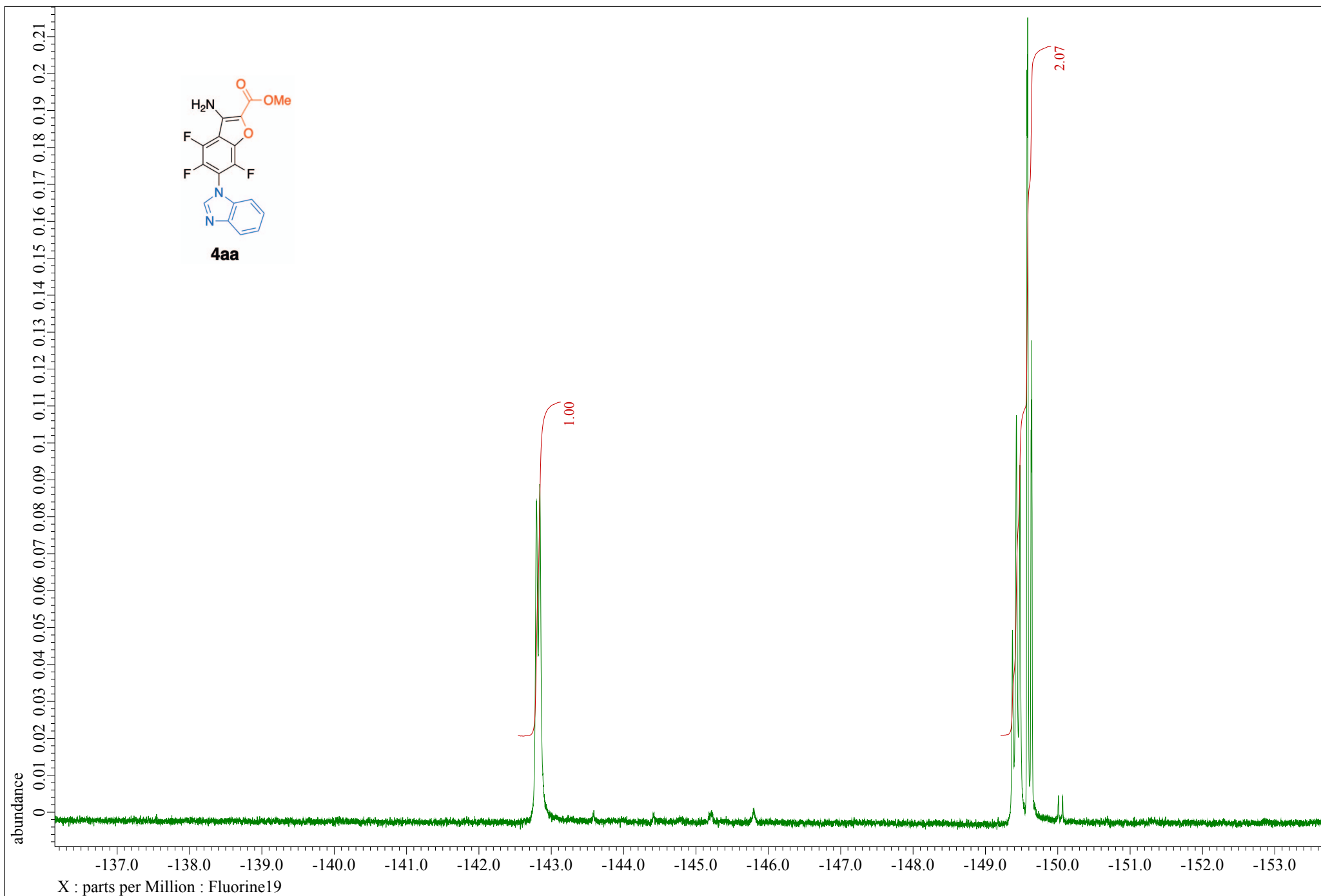
Hugh W. Tawell,¹ William Robinson,² Yuqi Li,¹ Graham J. Tizzard,³ Simon J. Coles,³ Avninder S. Bhambra,² Mark Edgar¹ and George W. Weaver^{1*}

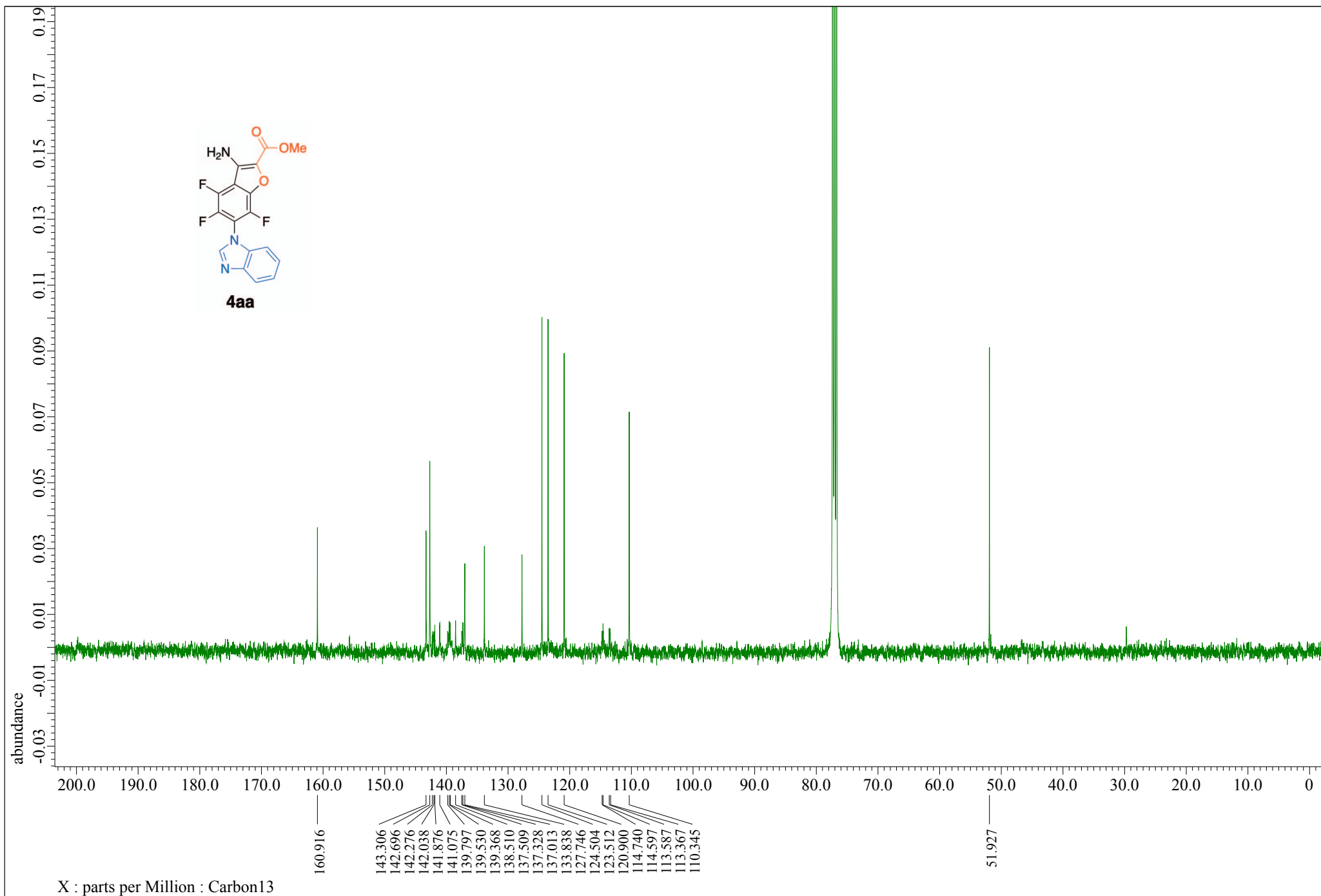
- 1 Department of Chemistry, Loughborough University, Epinal Way, Loughborough, Leicestershire, United Kingdom LE11 3TU
- 2 School of Allied Health Sciences, De Montfort University, The Gateway, Leicester, United Kingdom, LE1 9BH
- 3 UK National Crystallography Service, Chemistry, University of Southampton, University Road, Southampton, SO17 1BJ

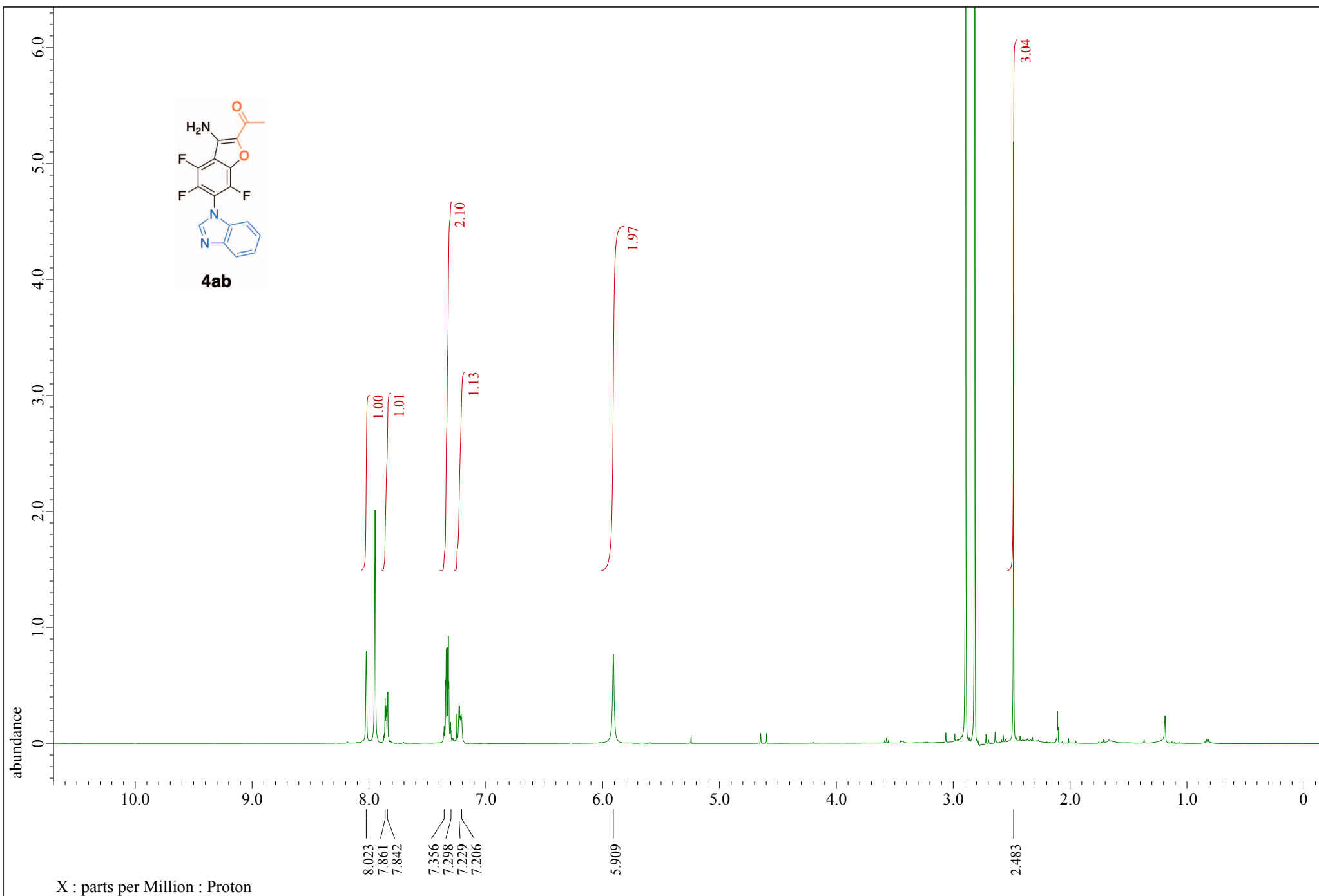
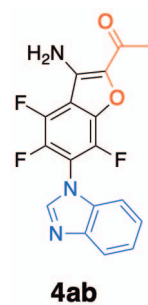
Copies of ¹H, ¹⁹F and ¹³C NMR spectra

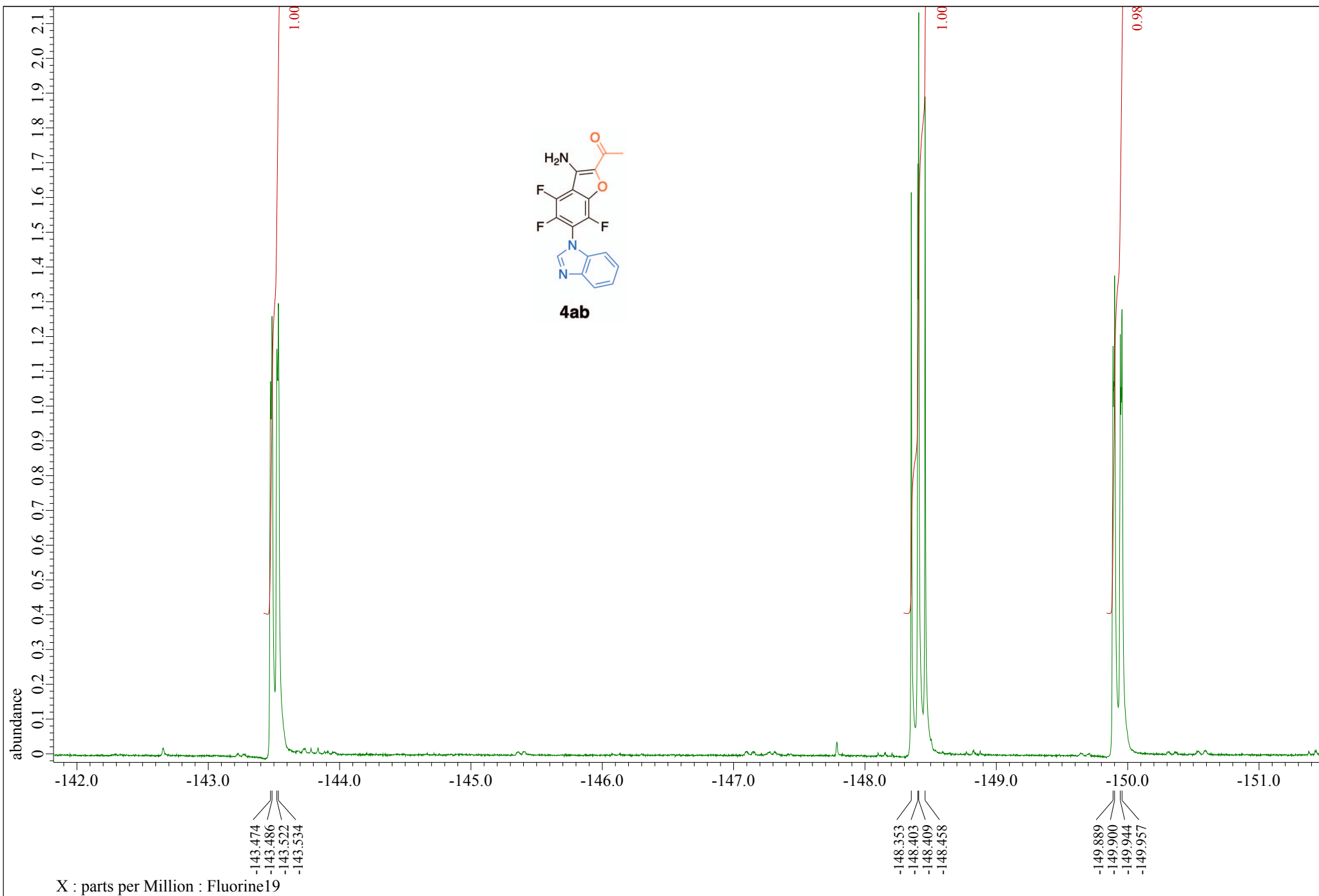
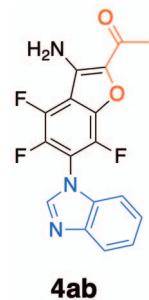
NMR spectra were recorded on JEOL ECS400 or JEOL ESZ500 spectrometers with ¹H spectra recorded at 400 or 500 MHz, ¹⁹F Spectra at 376 or 470 MHz and ¹³C spectra at 100 or 125 MHz respectively.

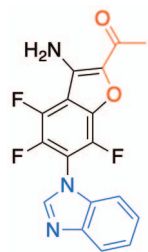




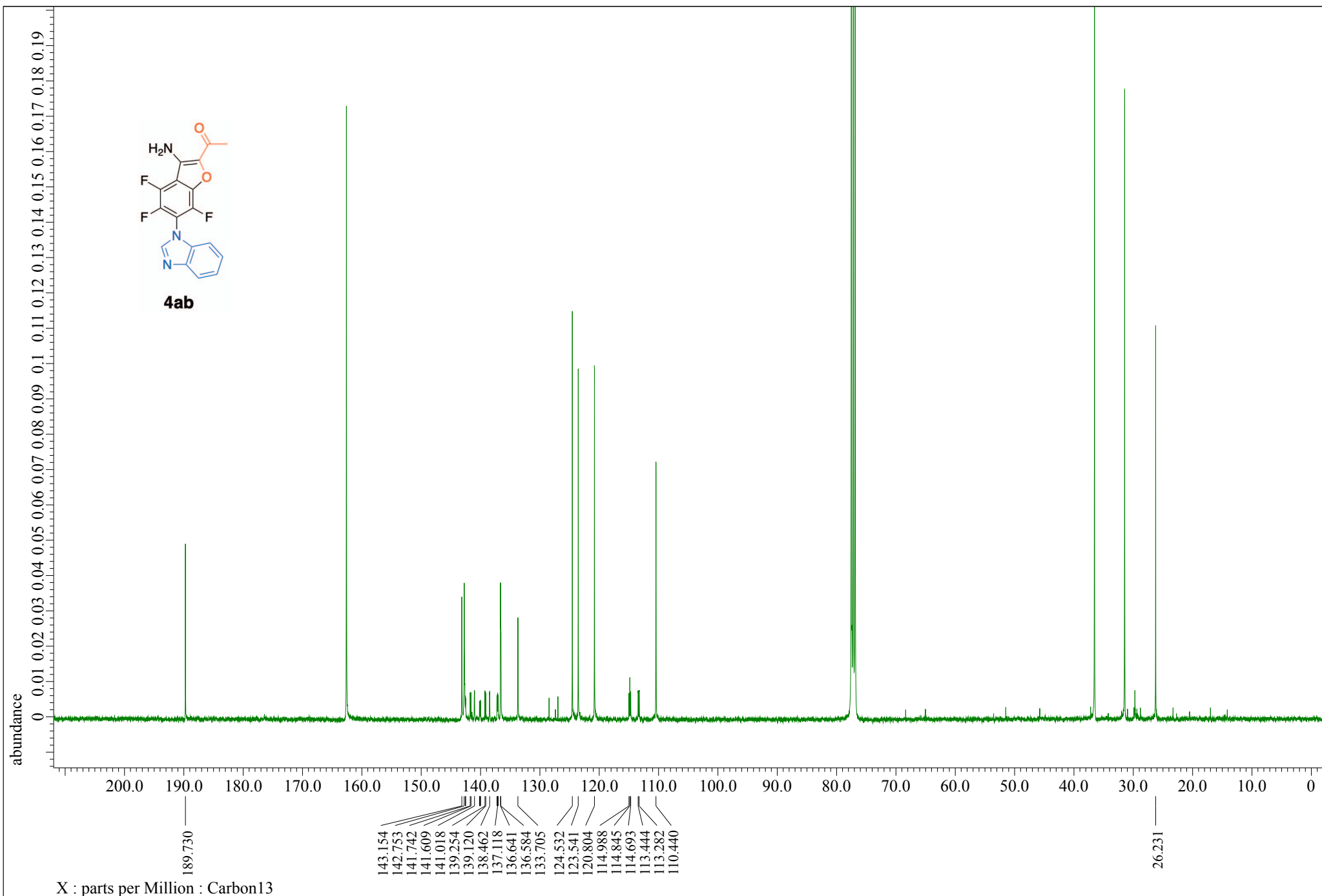


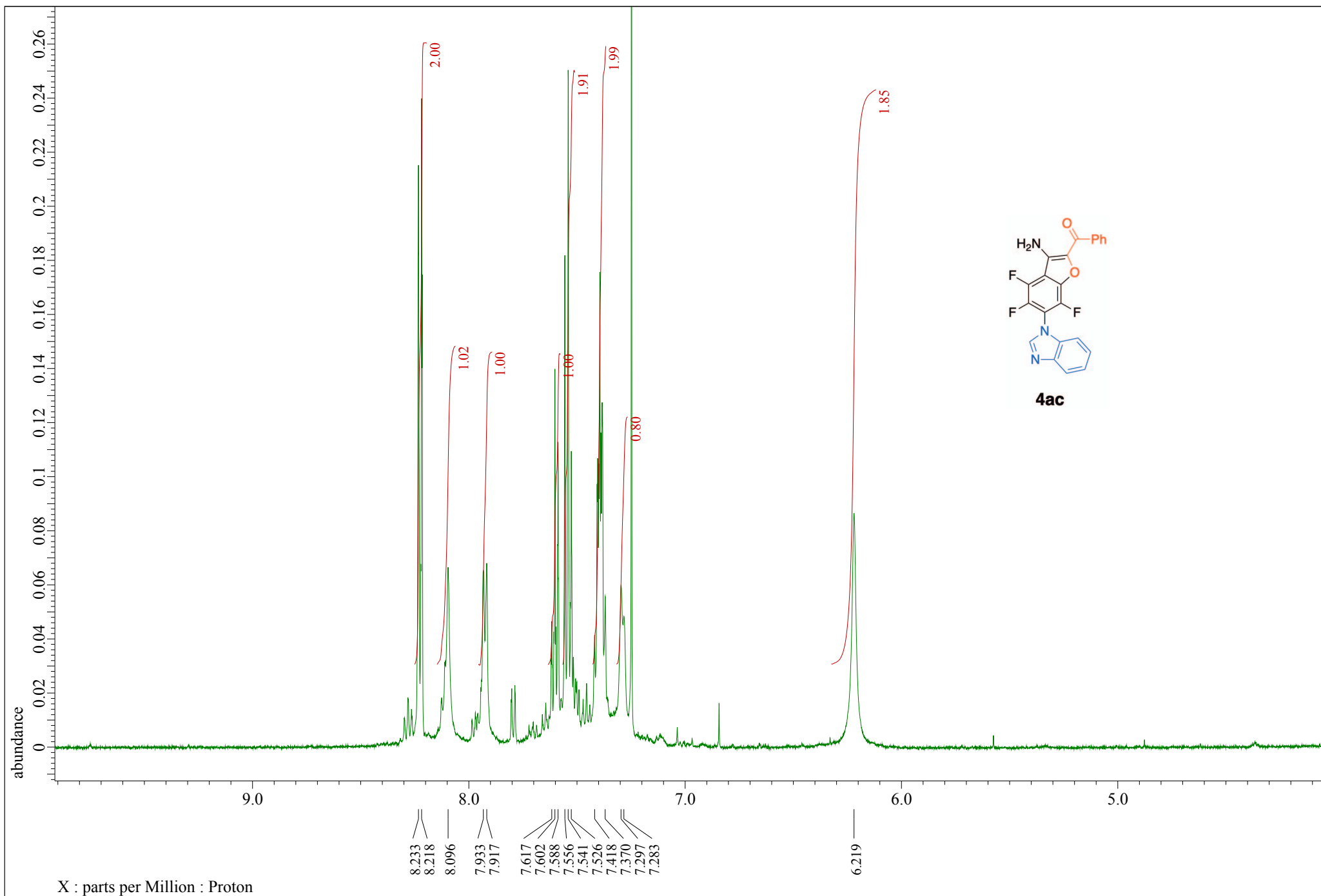


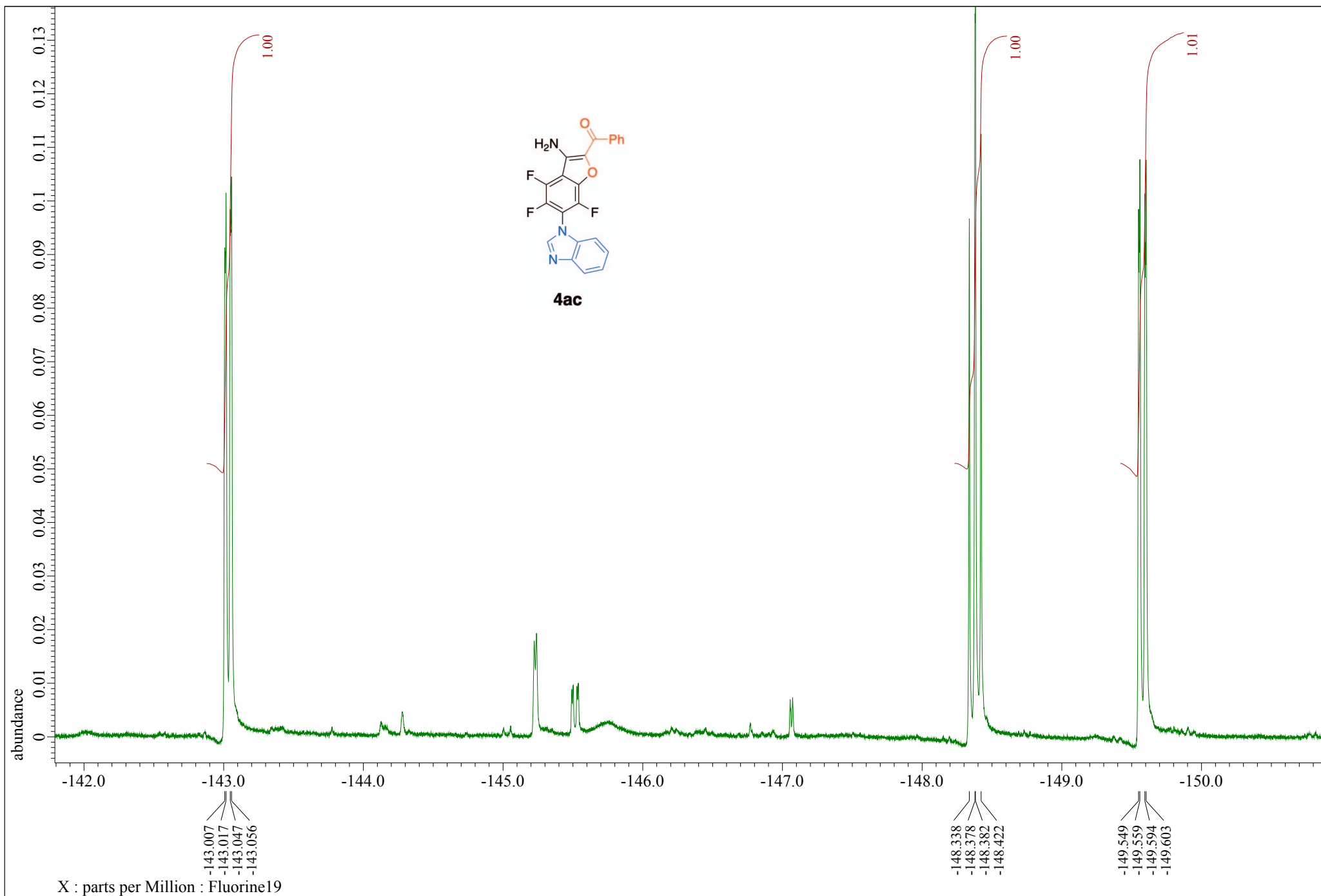


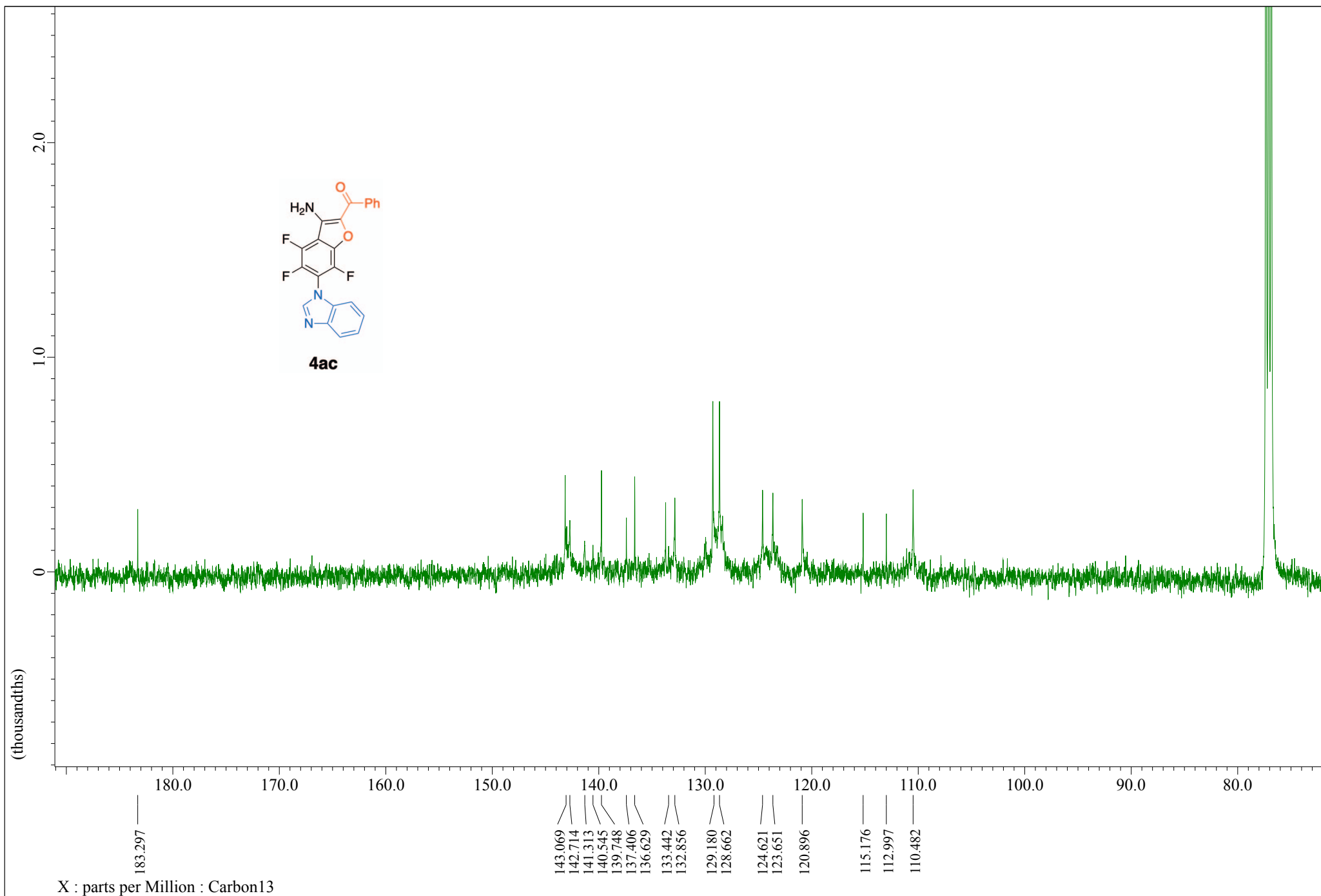


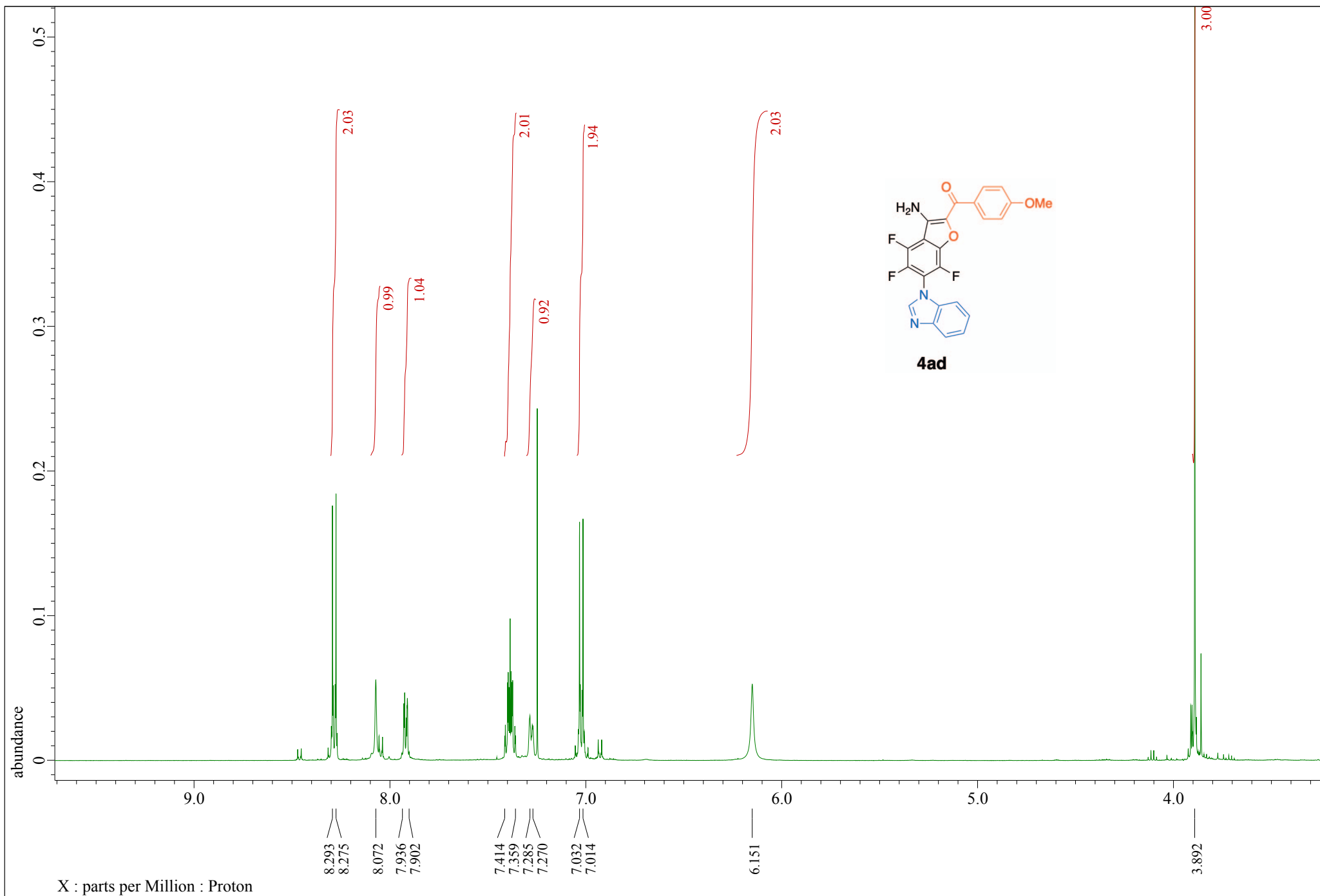
4ab

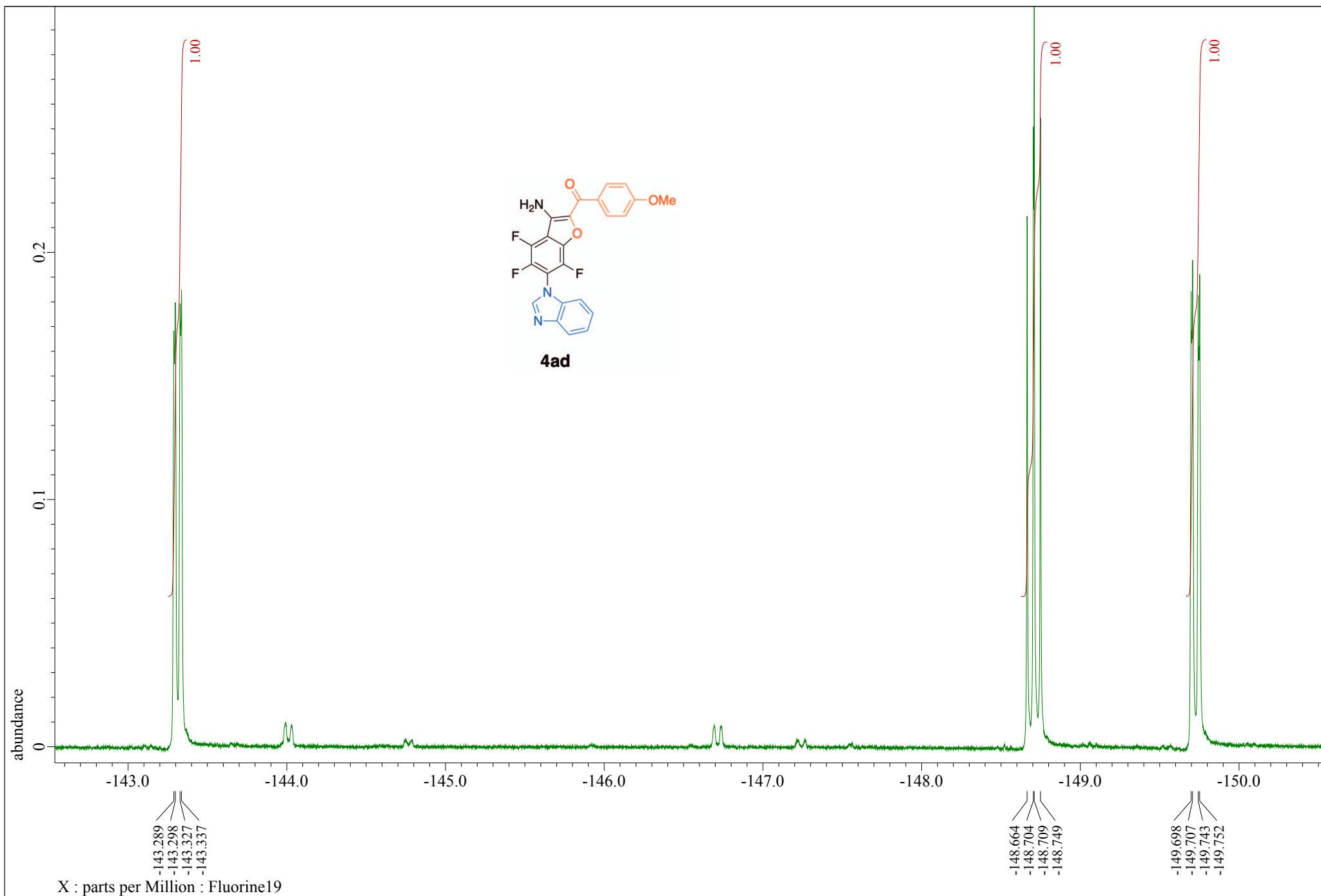


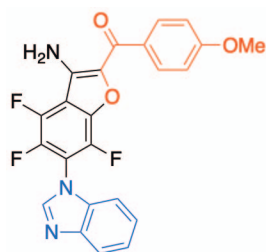




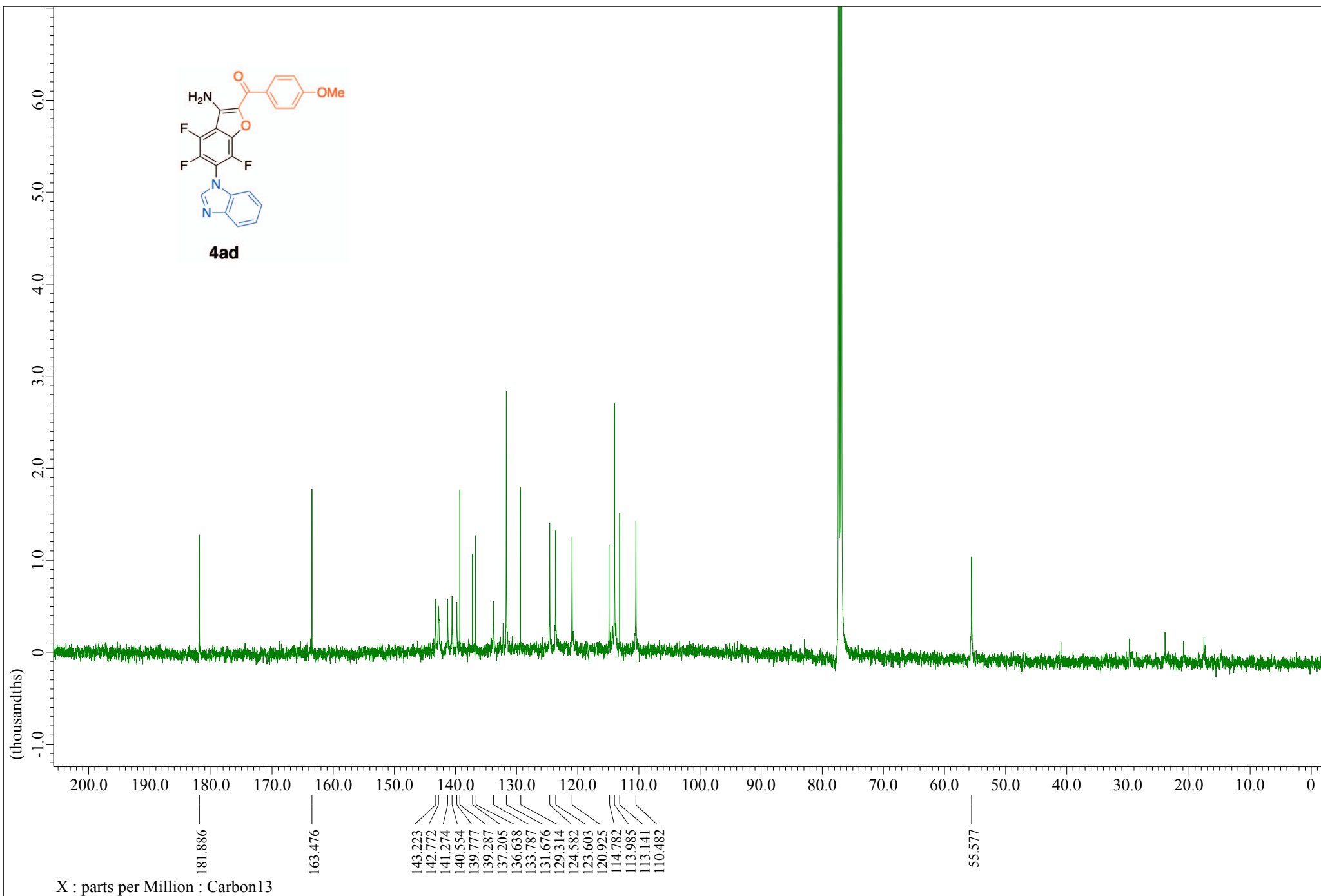


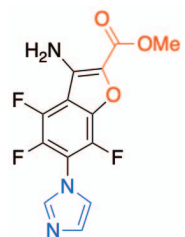




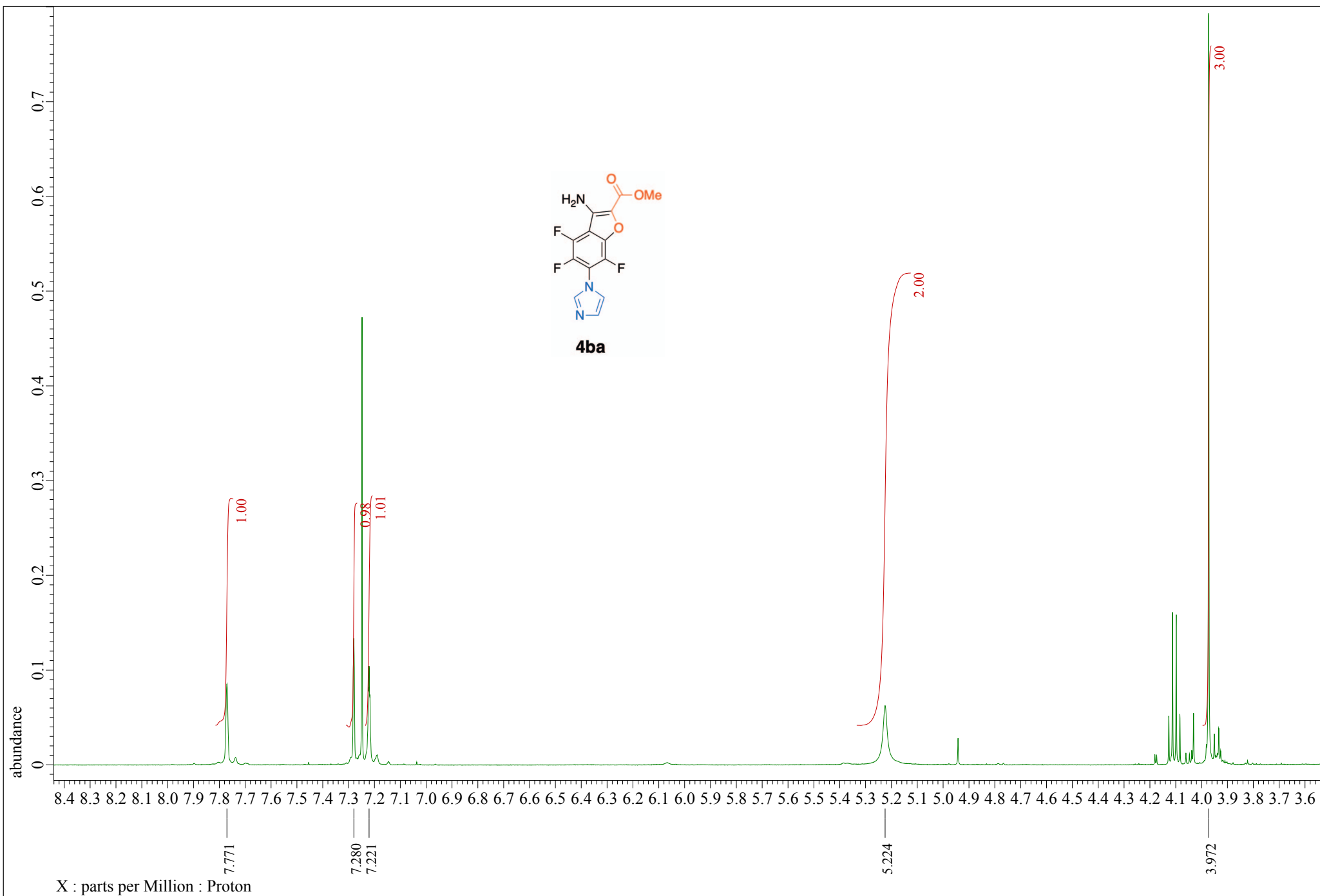


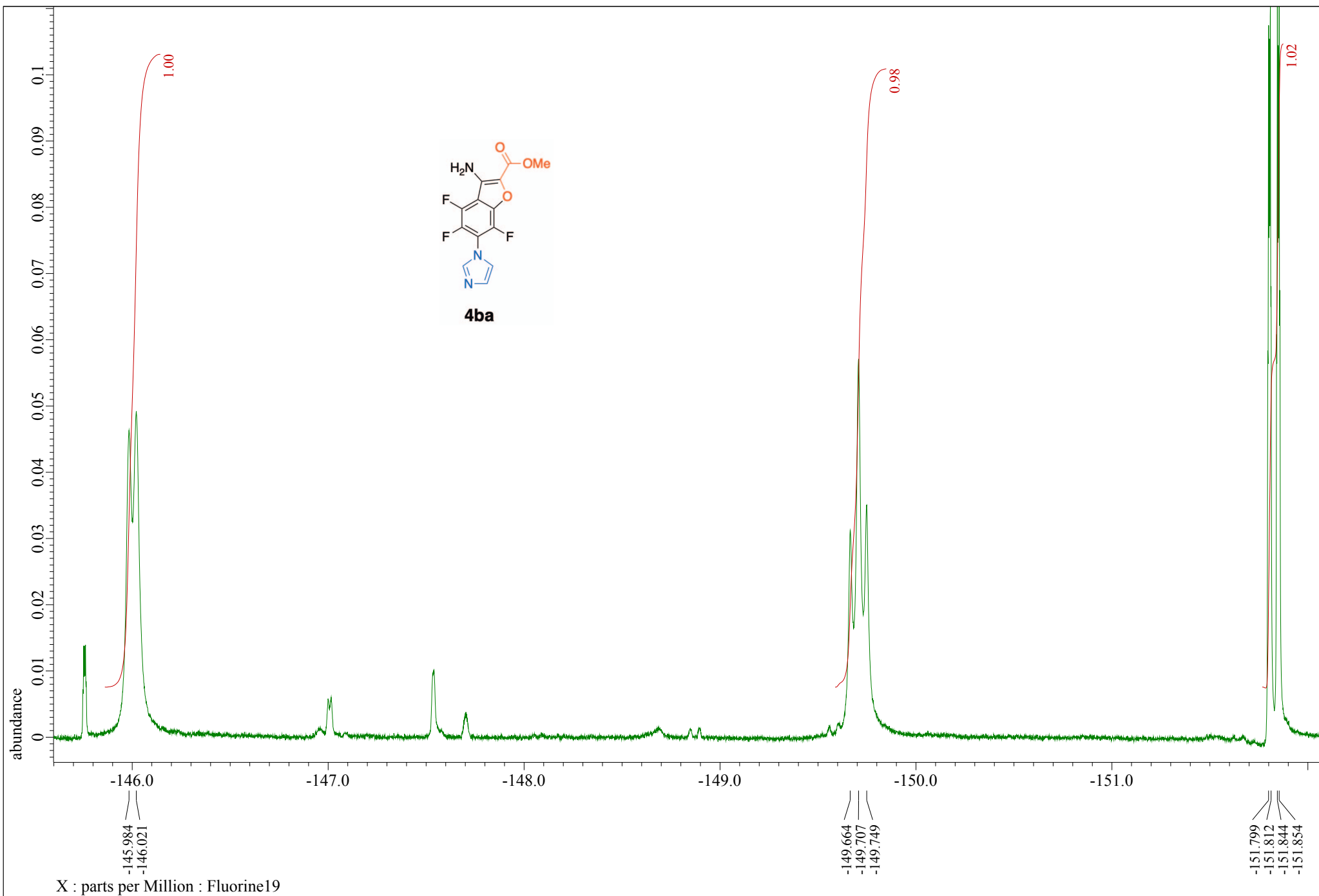
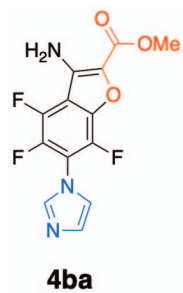
4ad

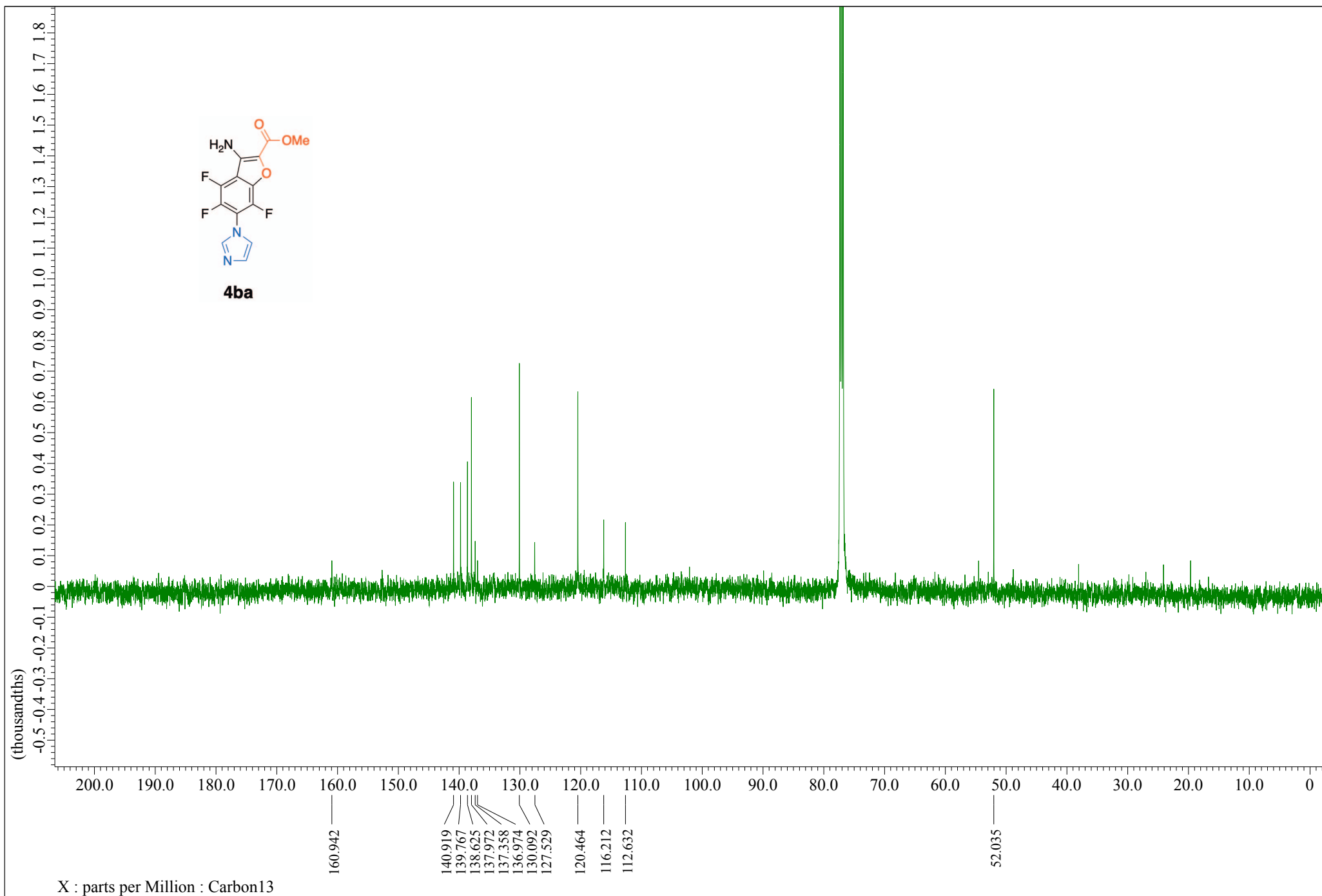


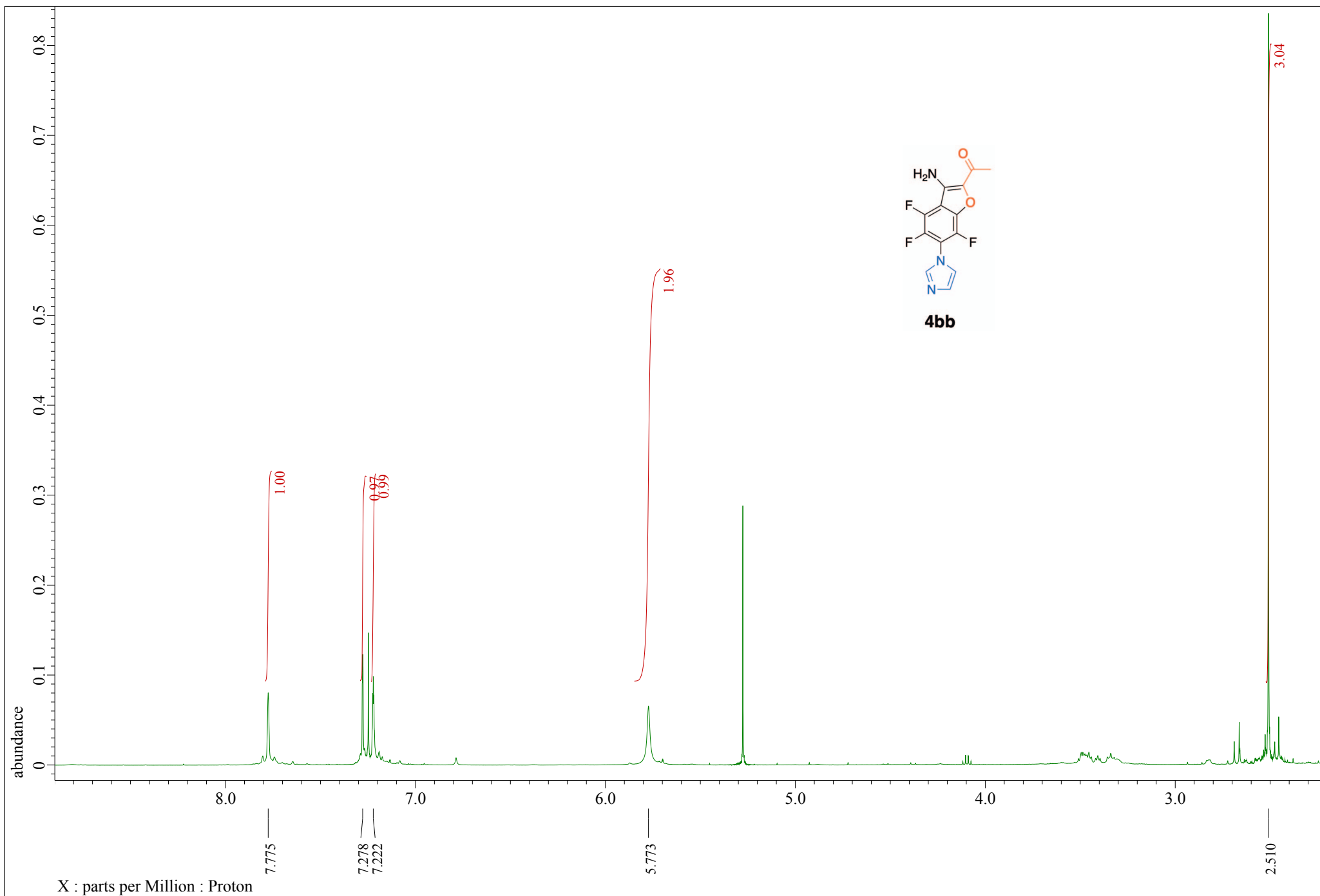


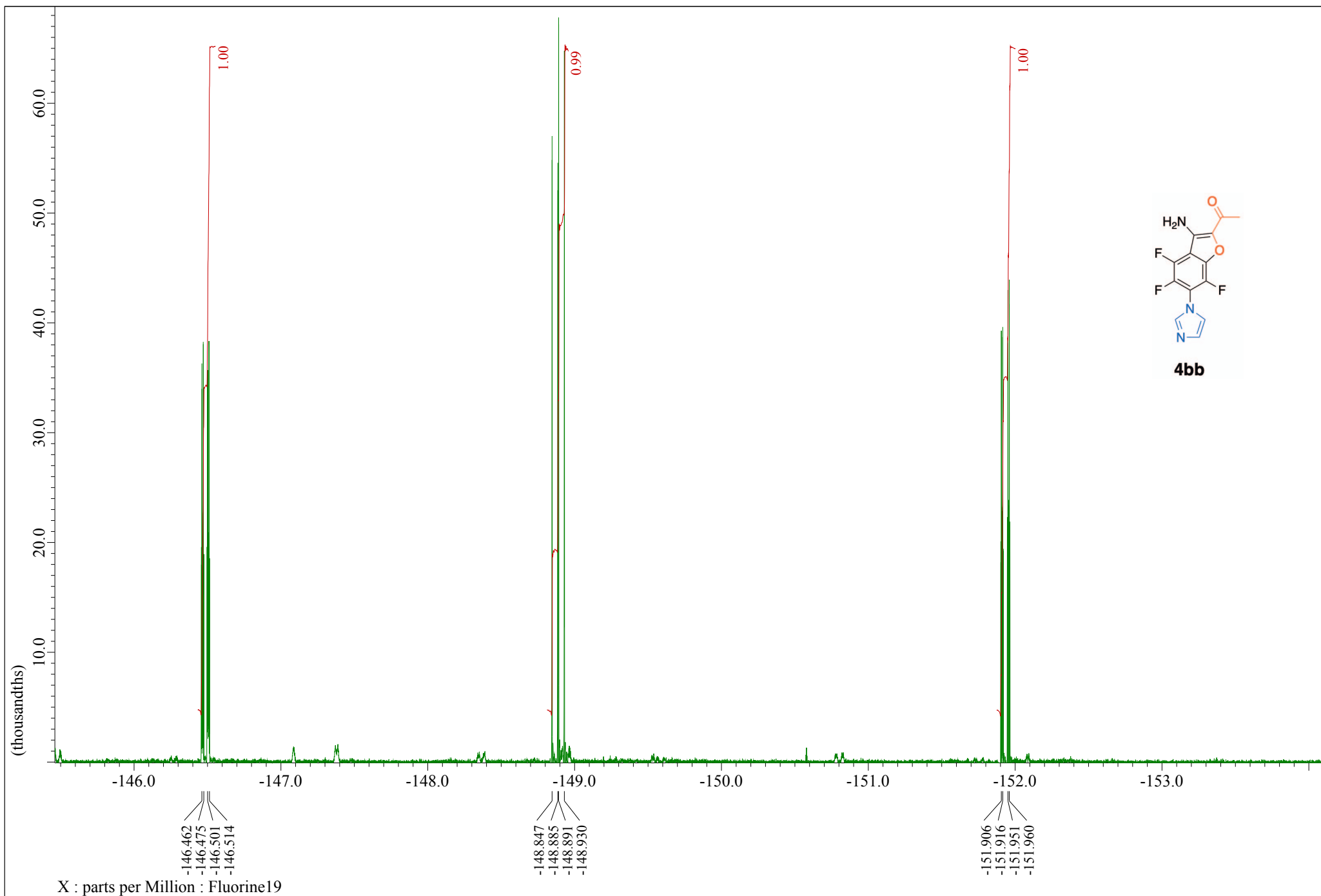
4ba

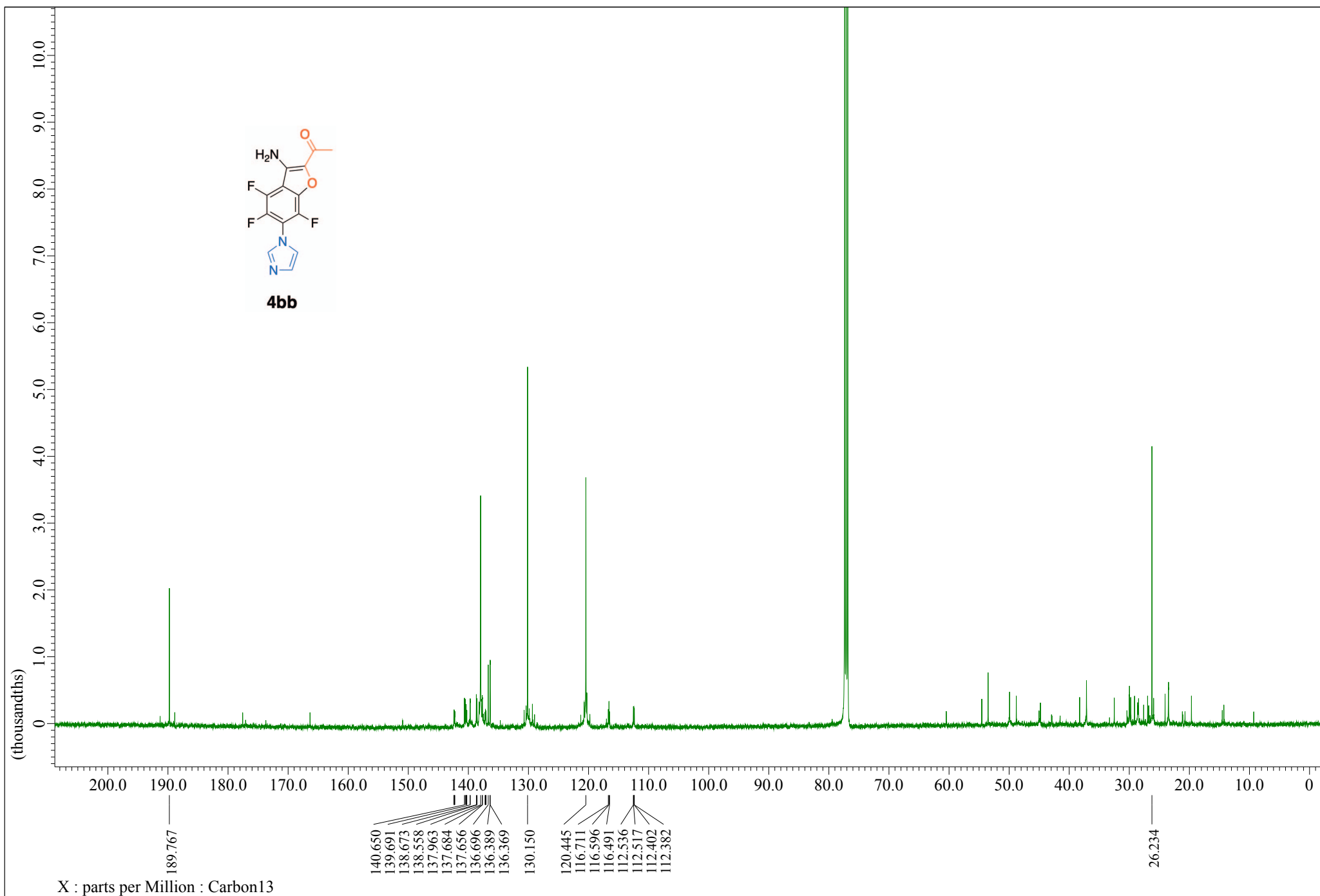
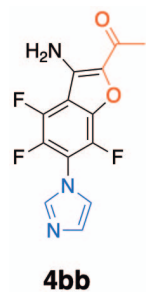


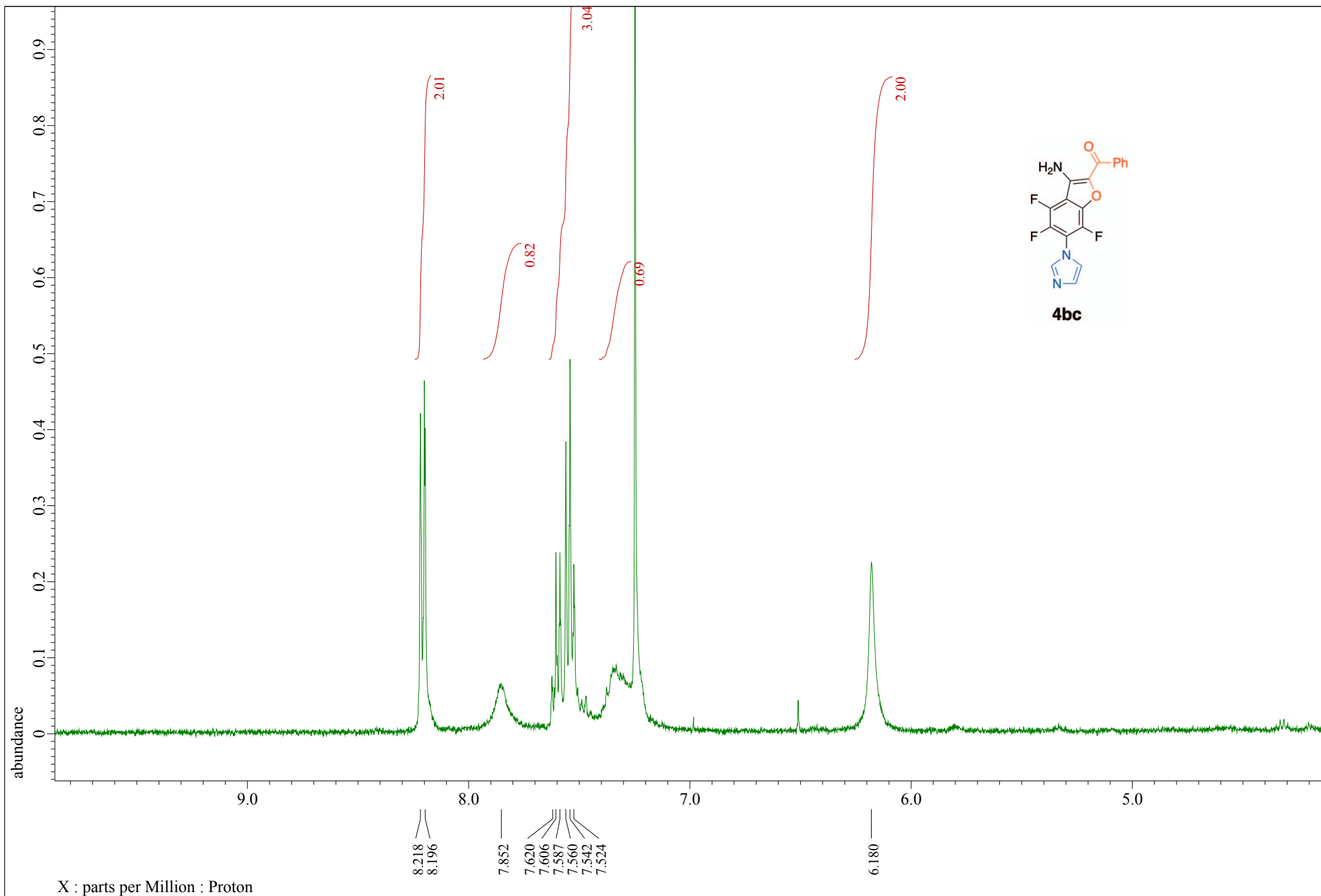


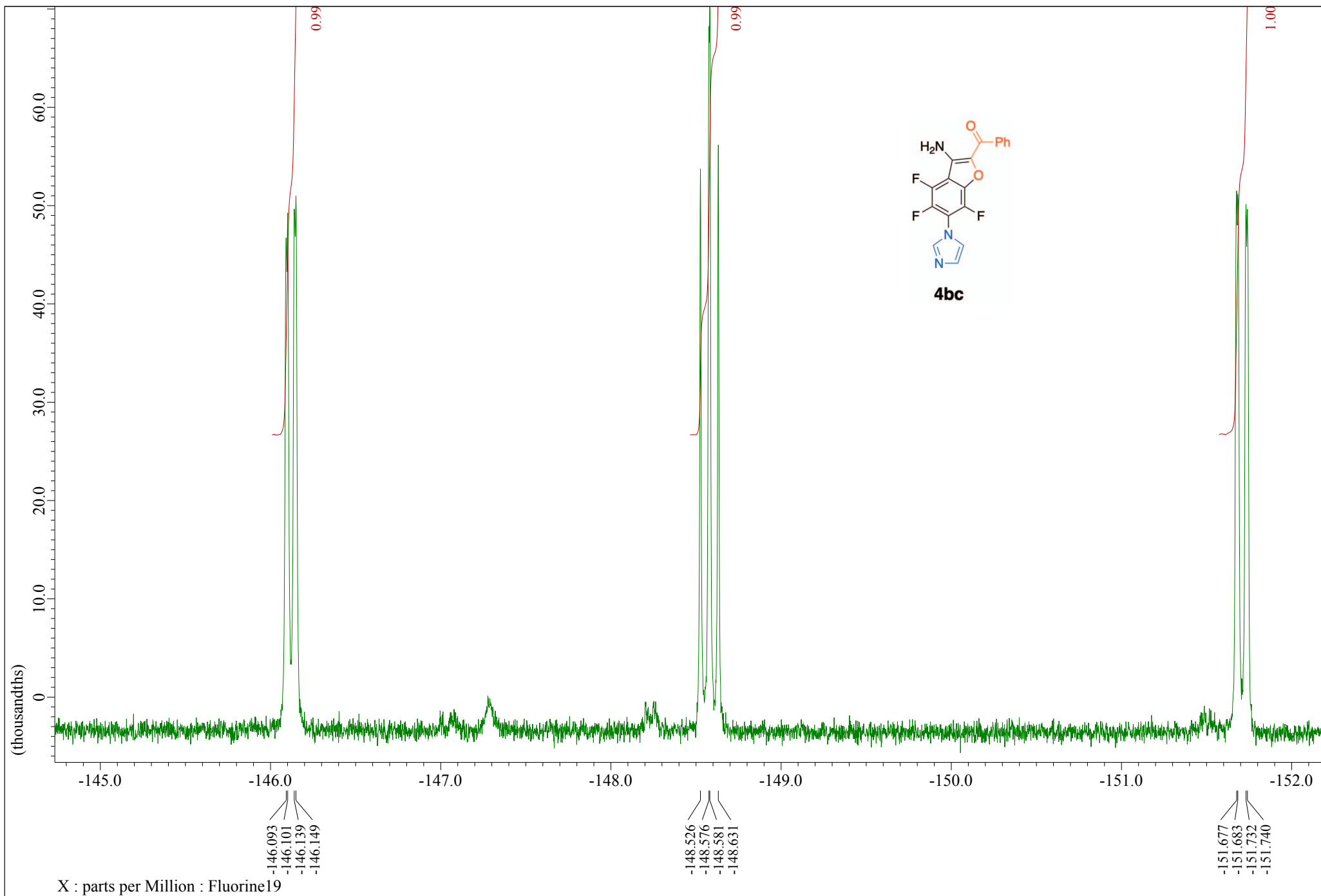


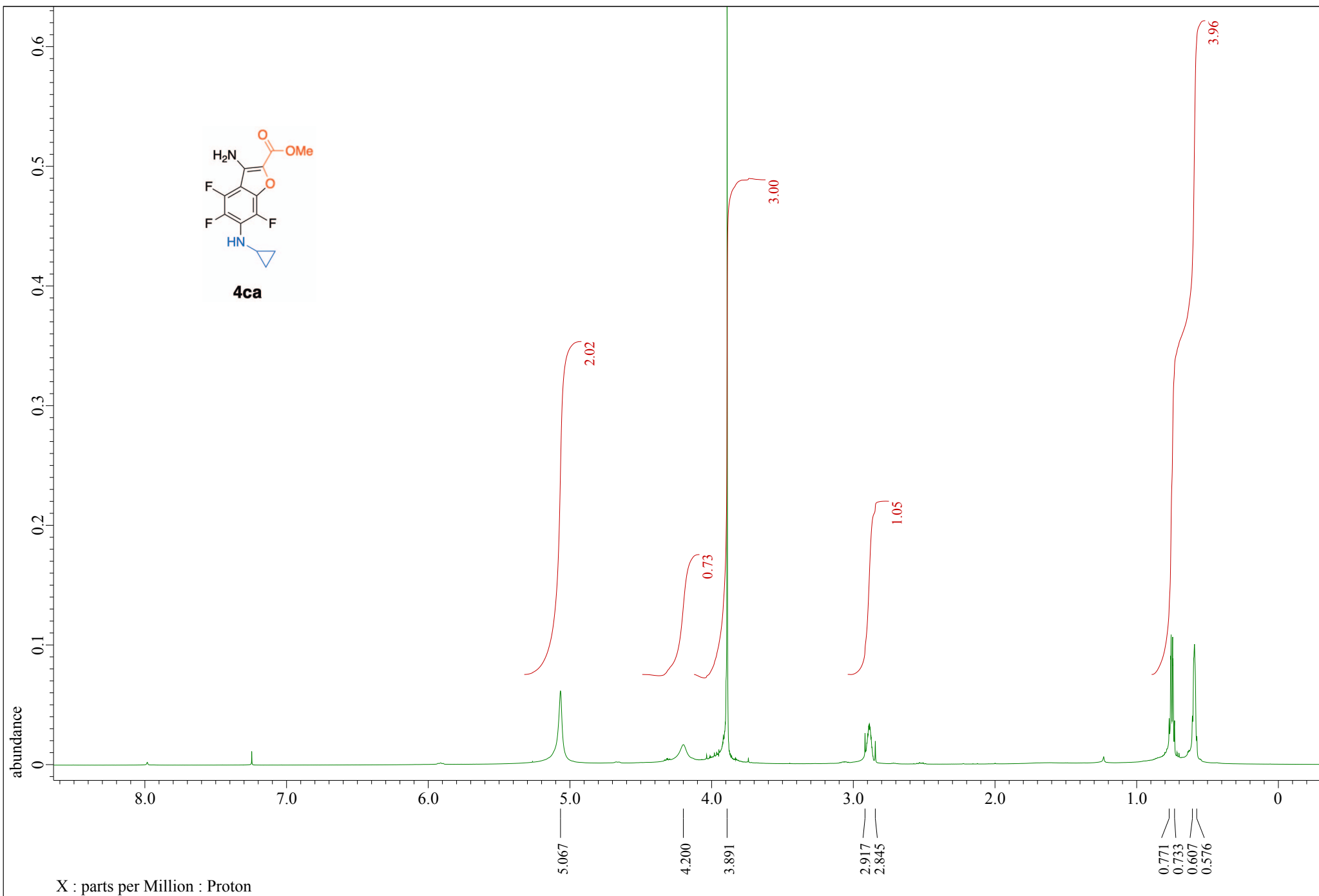
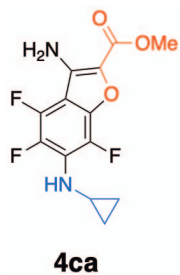


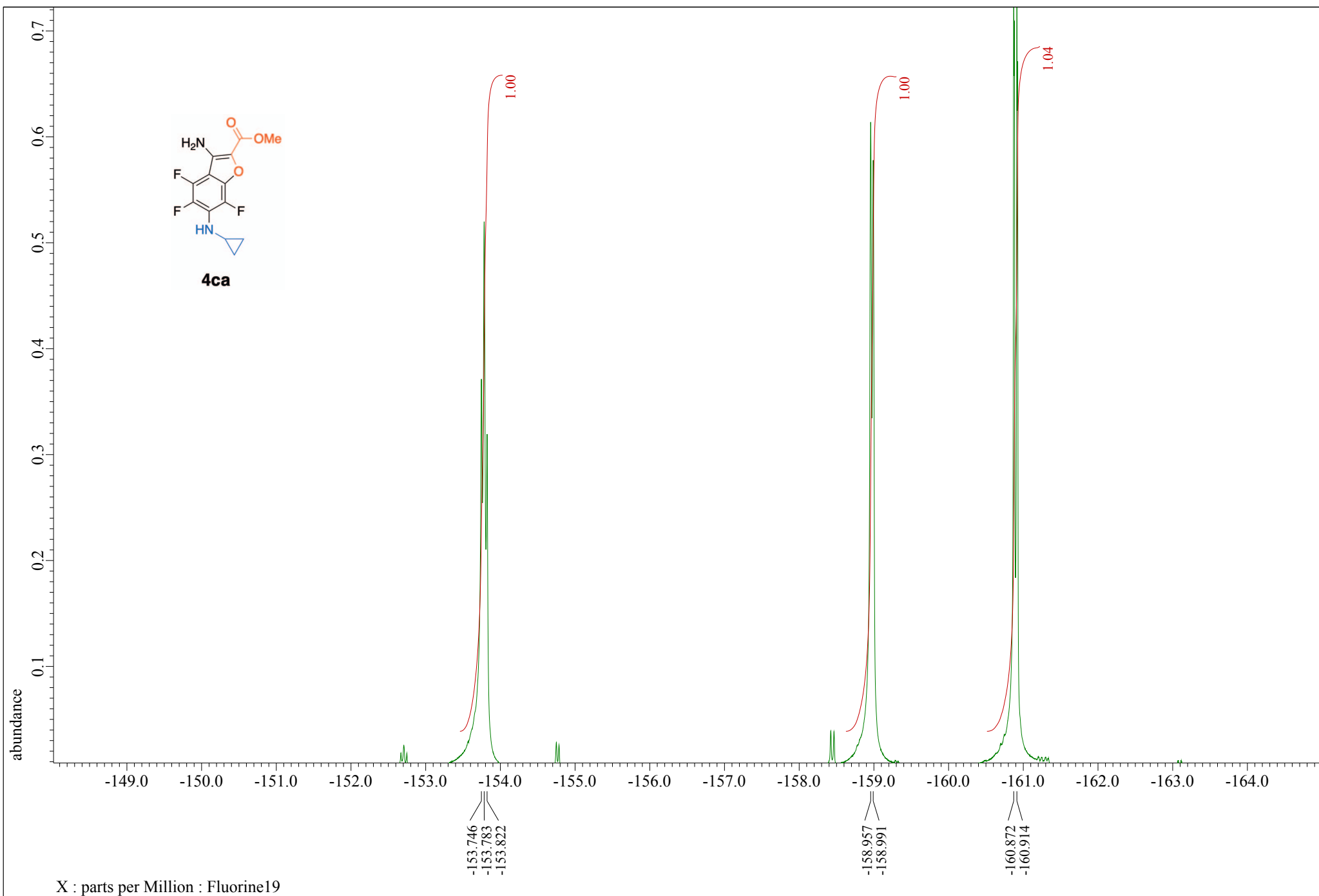
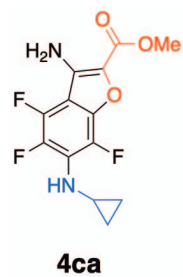




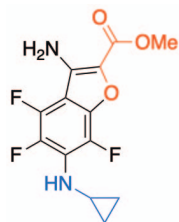




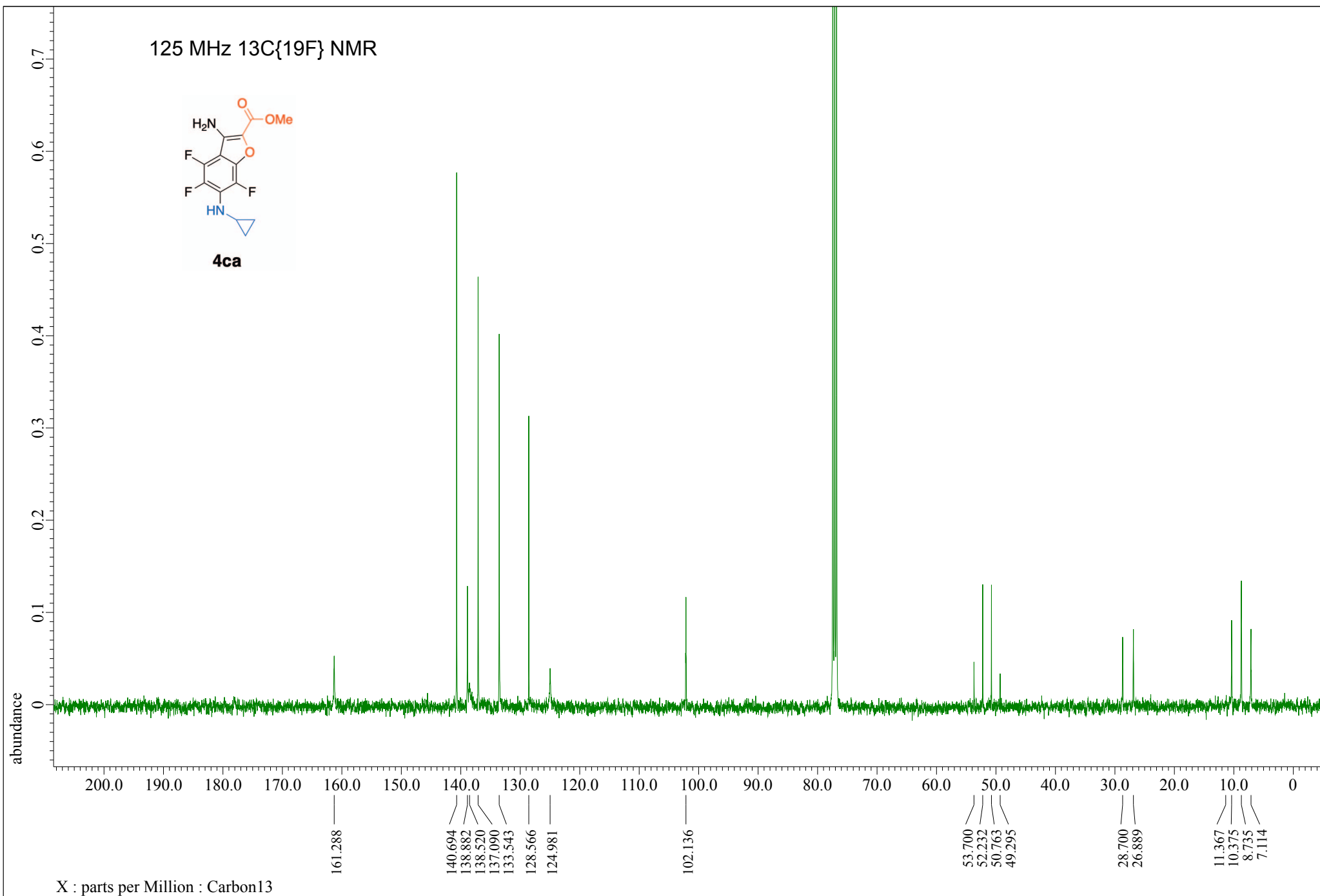


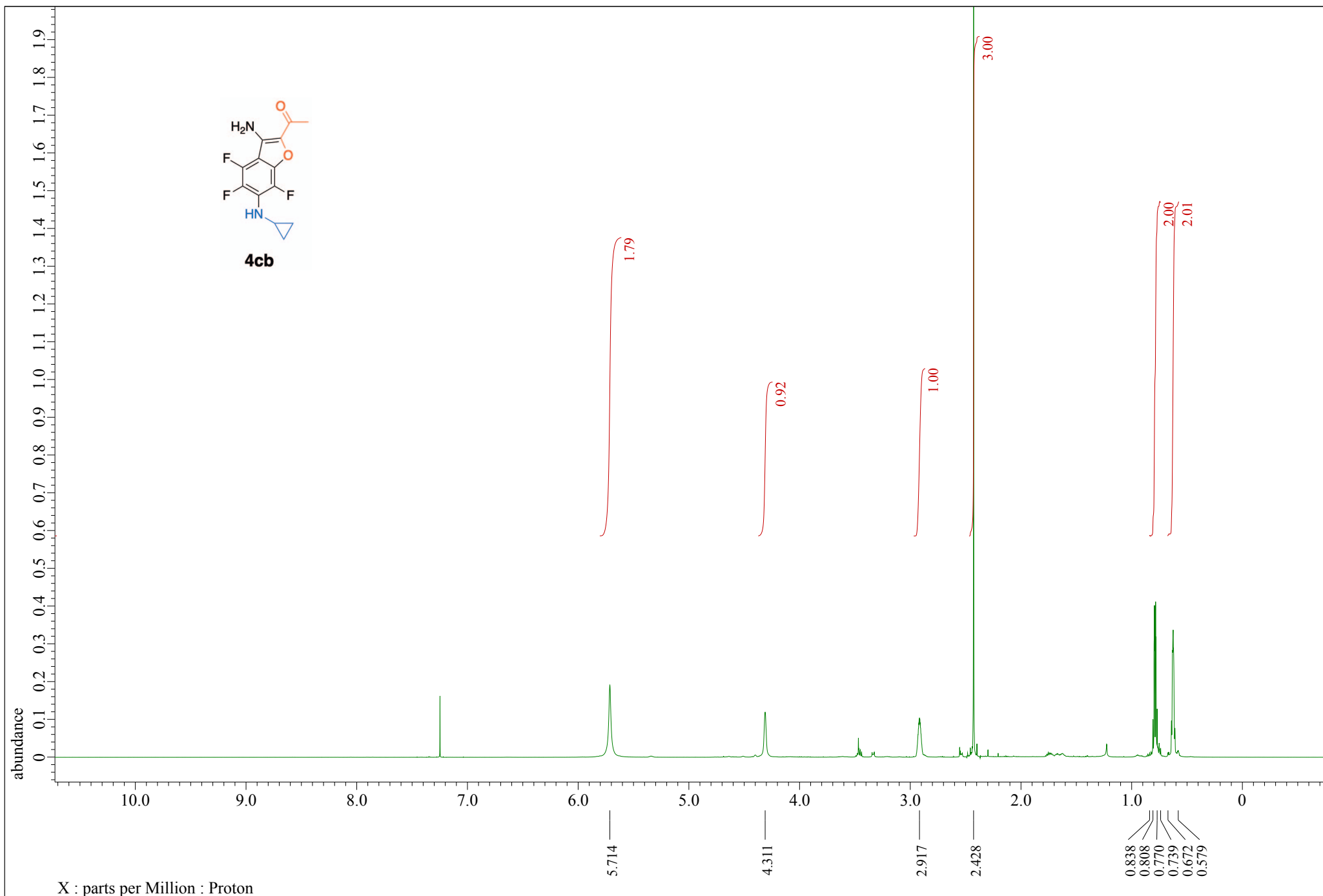


125 MHz $^{13}\text{C}\{^{19}\text{F}\}$ NMR

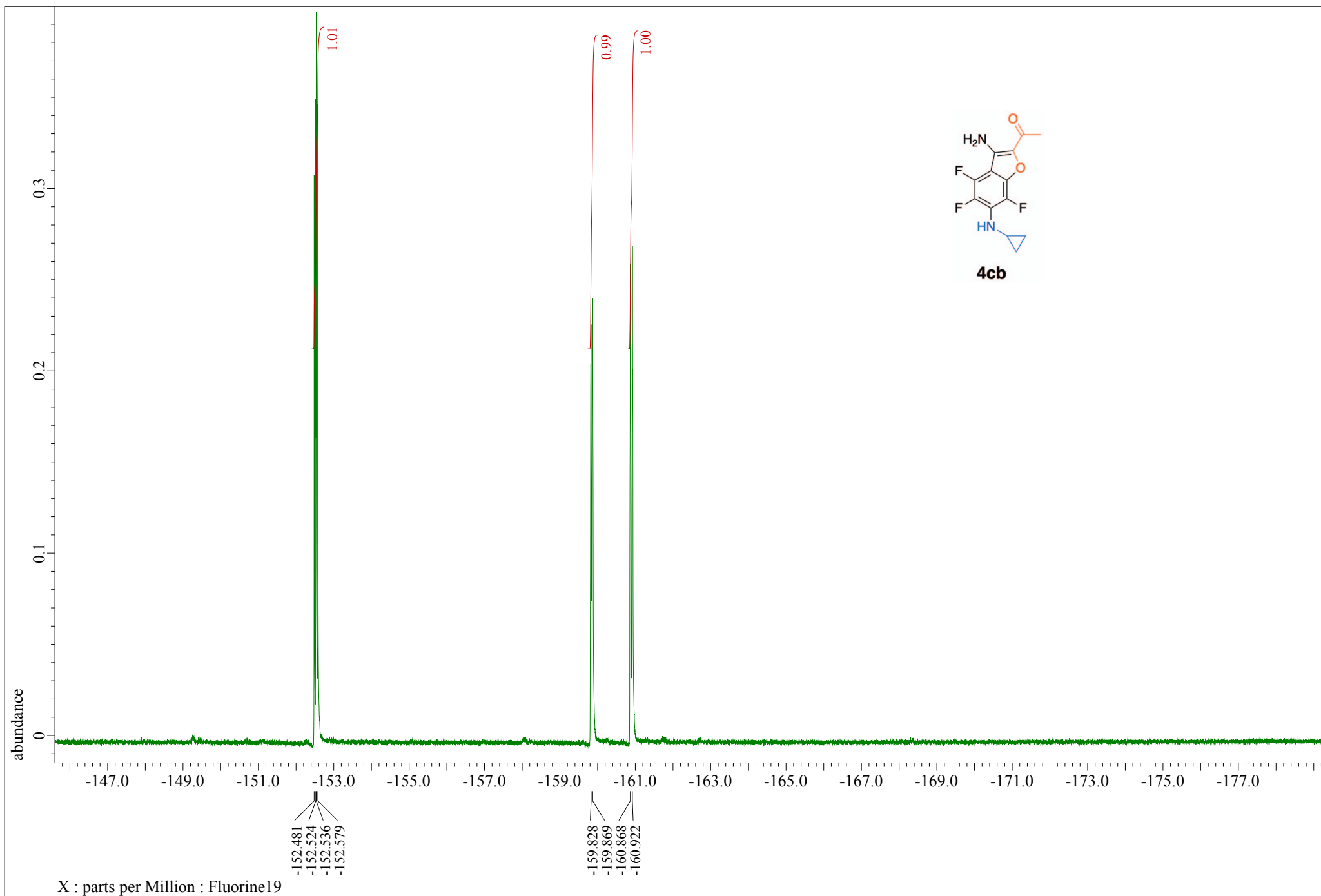


4ca

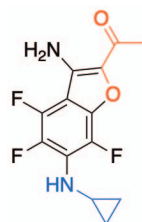




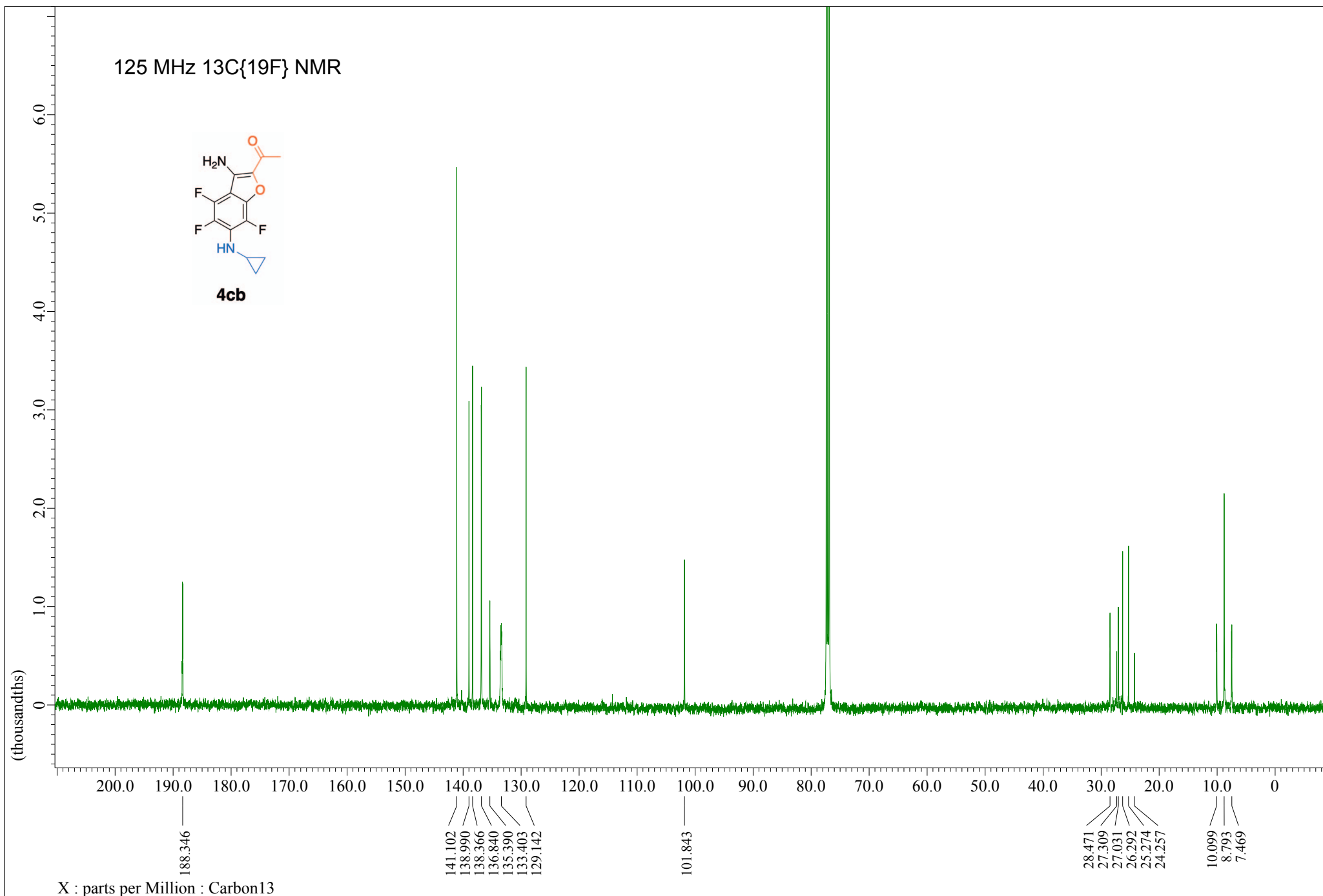
X : parts per Million : Proton

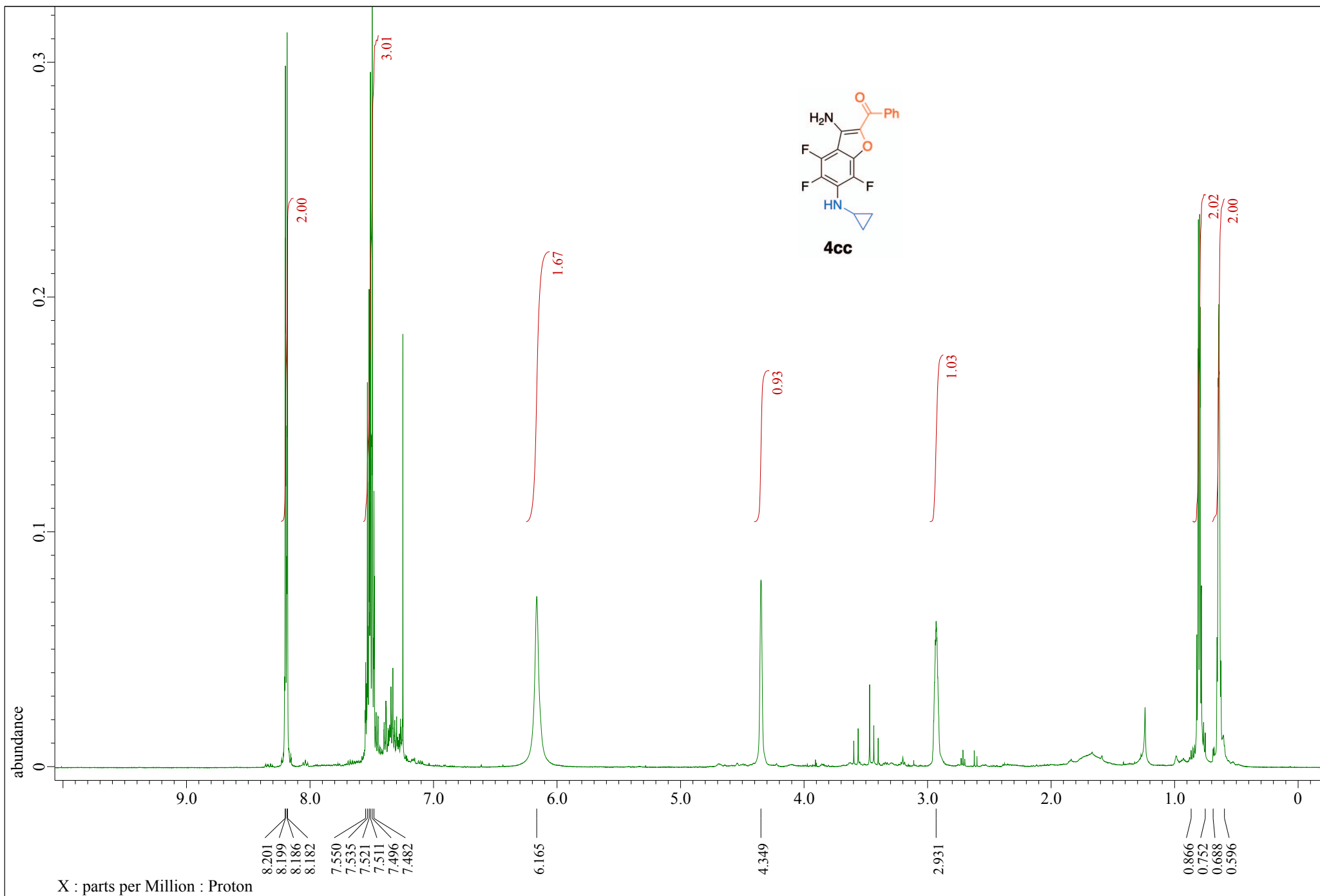


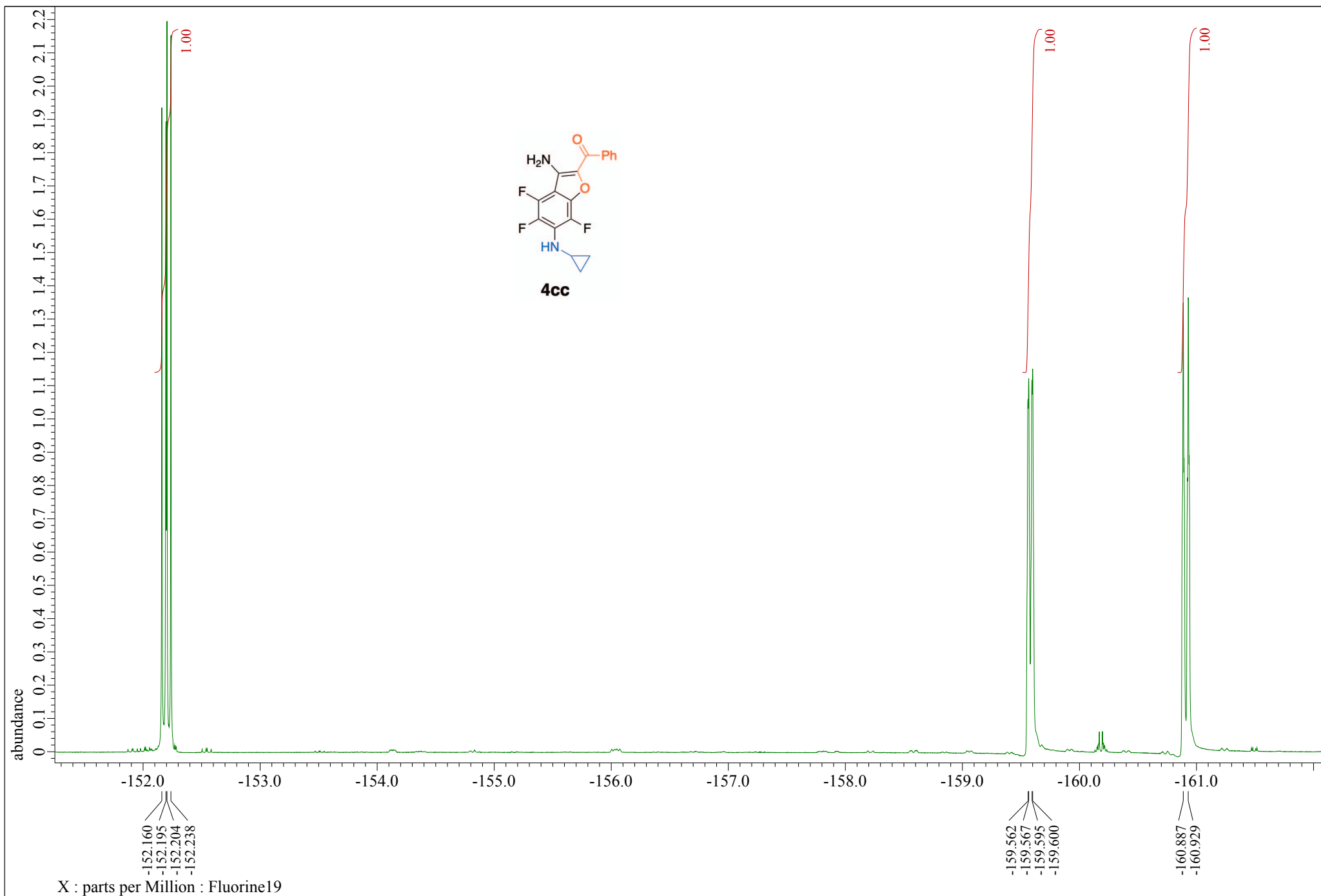
125 MHz $^{13}\text{C}\{^{19}\text{F}\}$ NMR



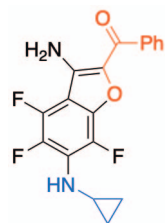
4cb



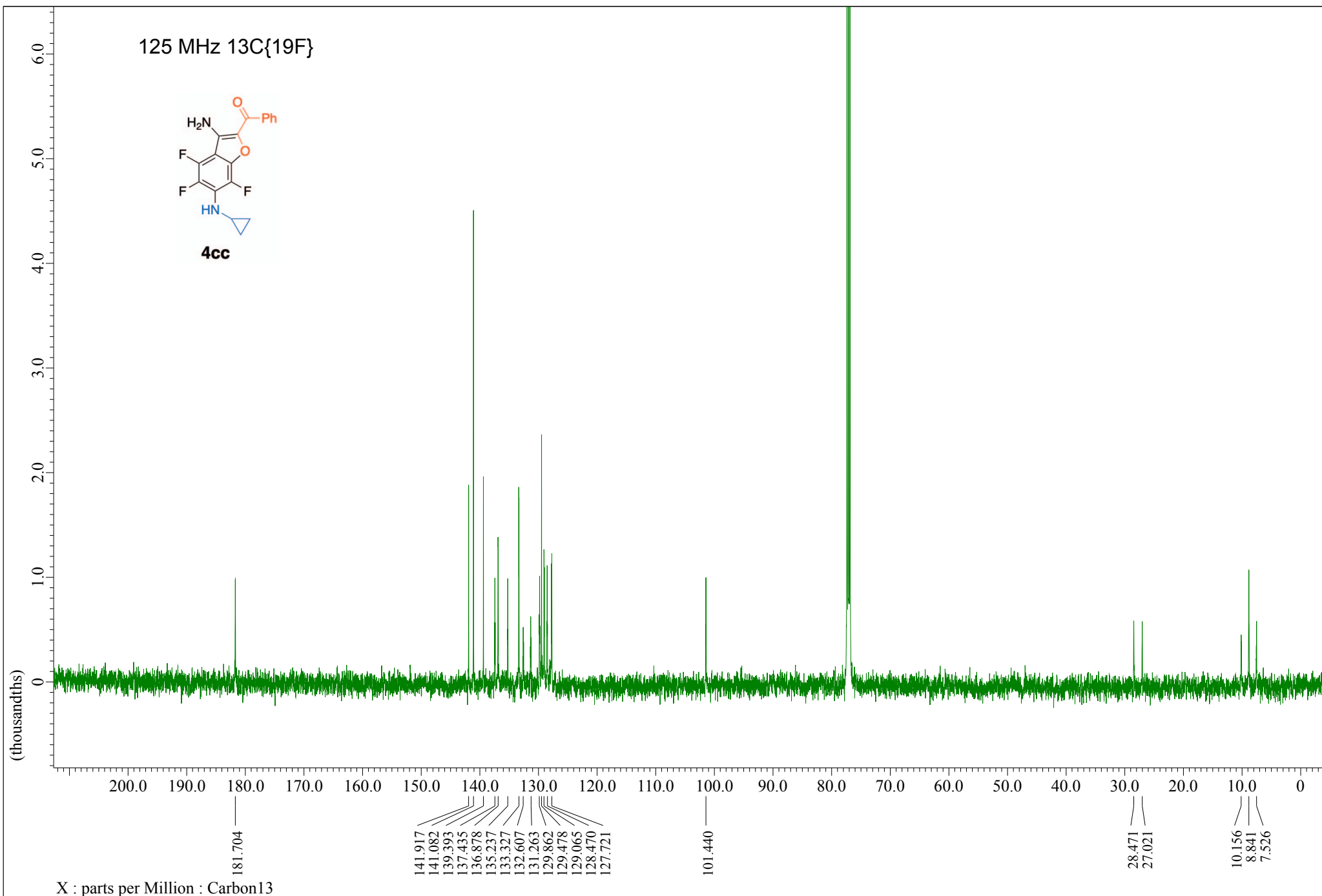


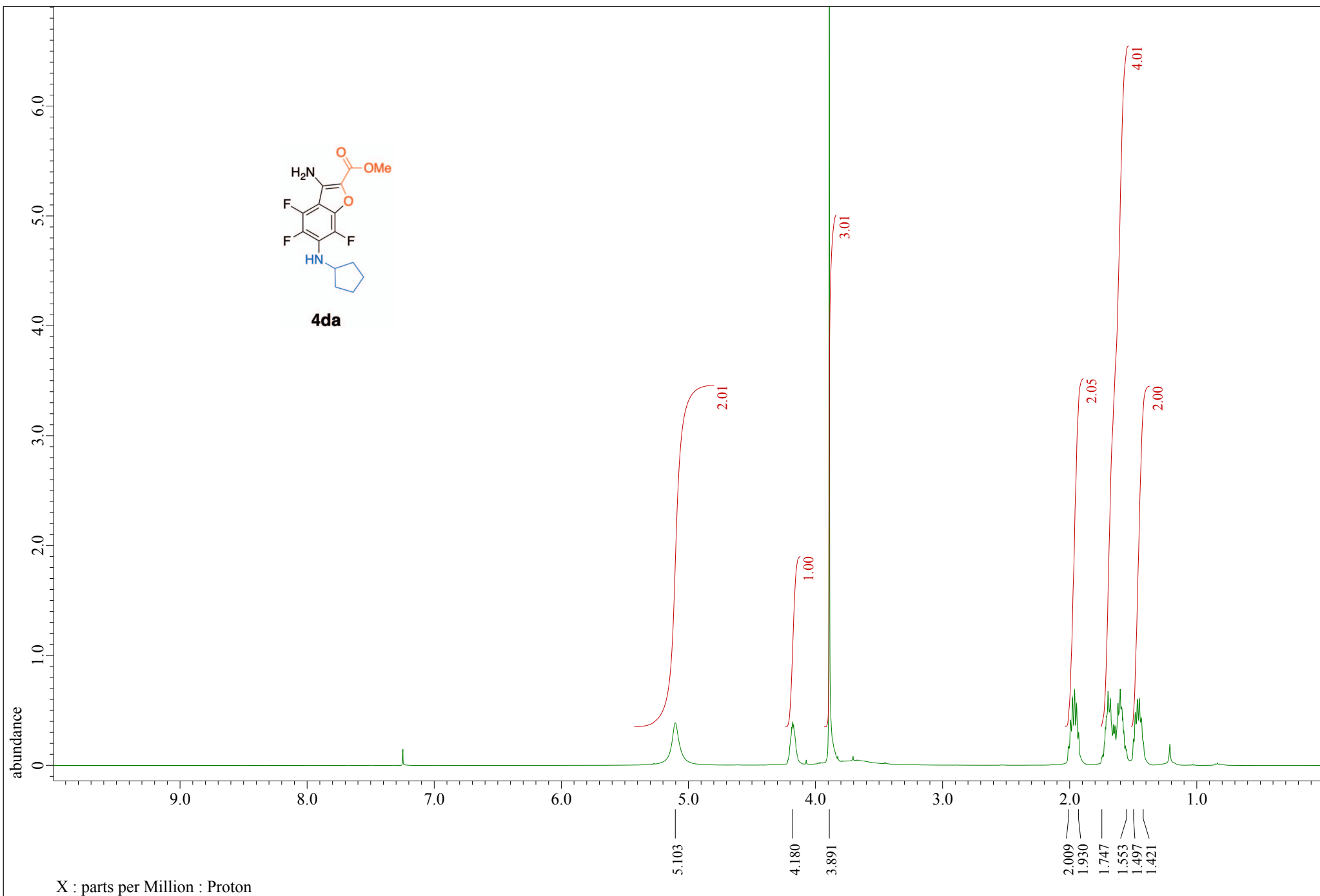
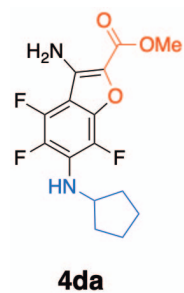


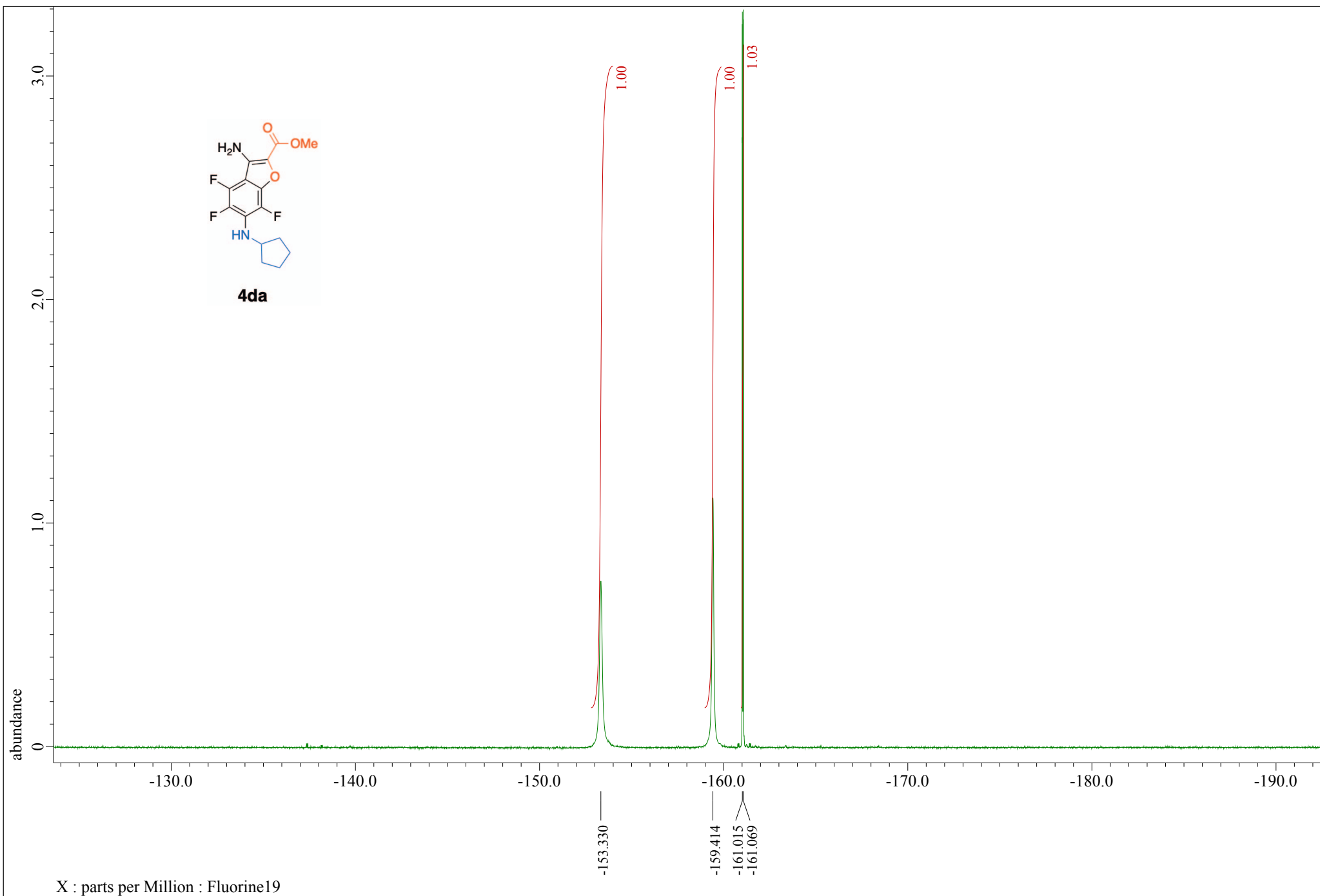
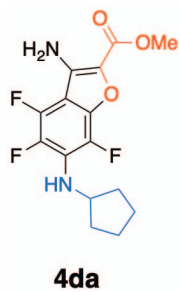
125 MHz $^{13}\text{C}\{^{19}\text{F}\}$

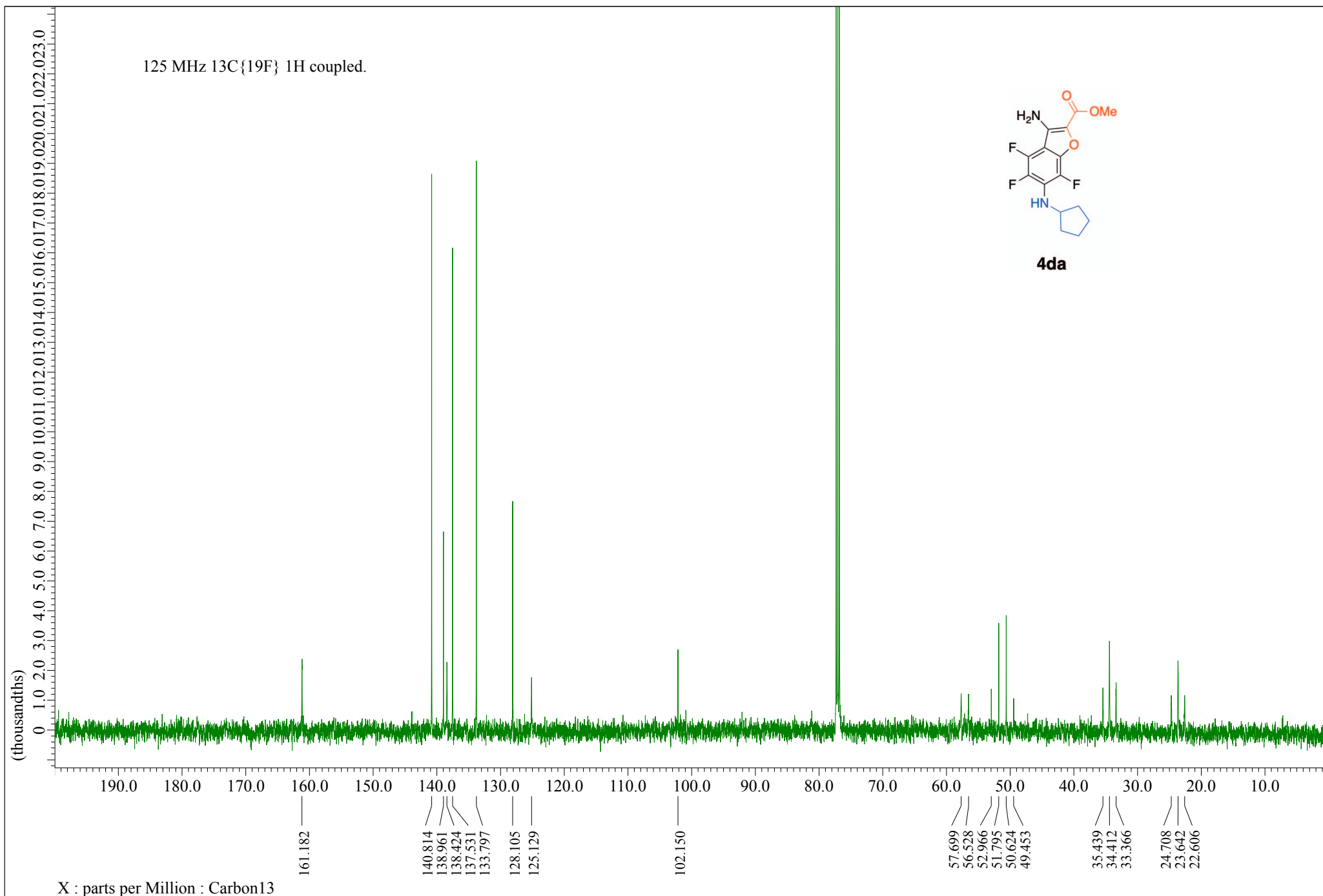


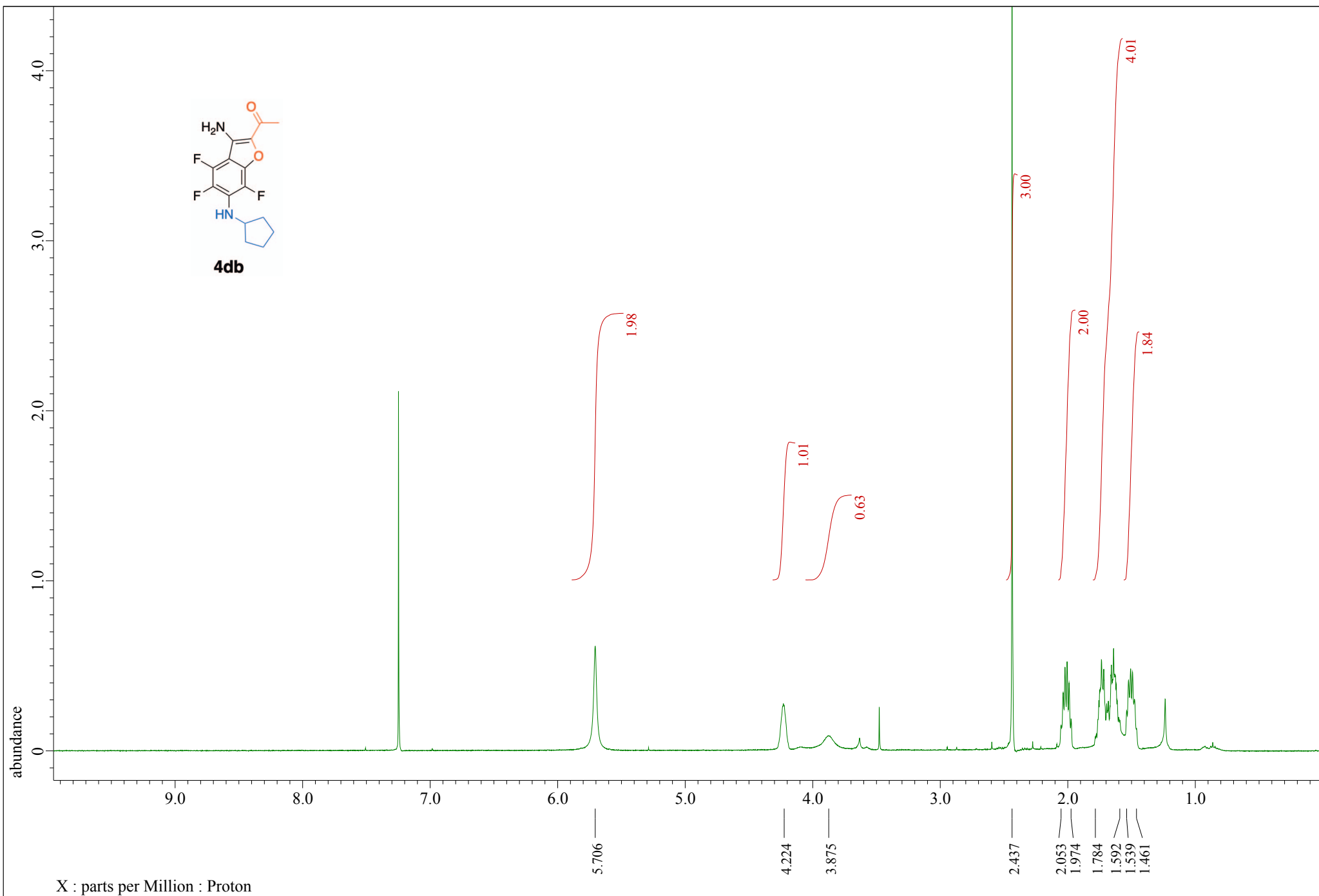
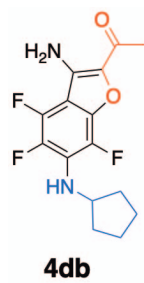
4cc

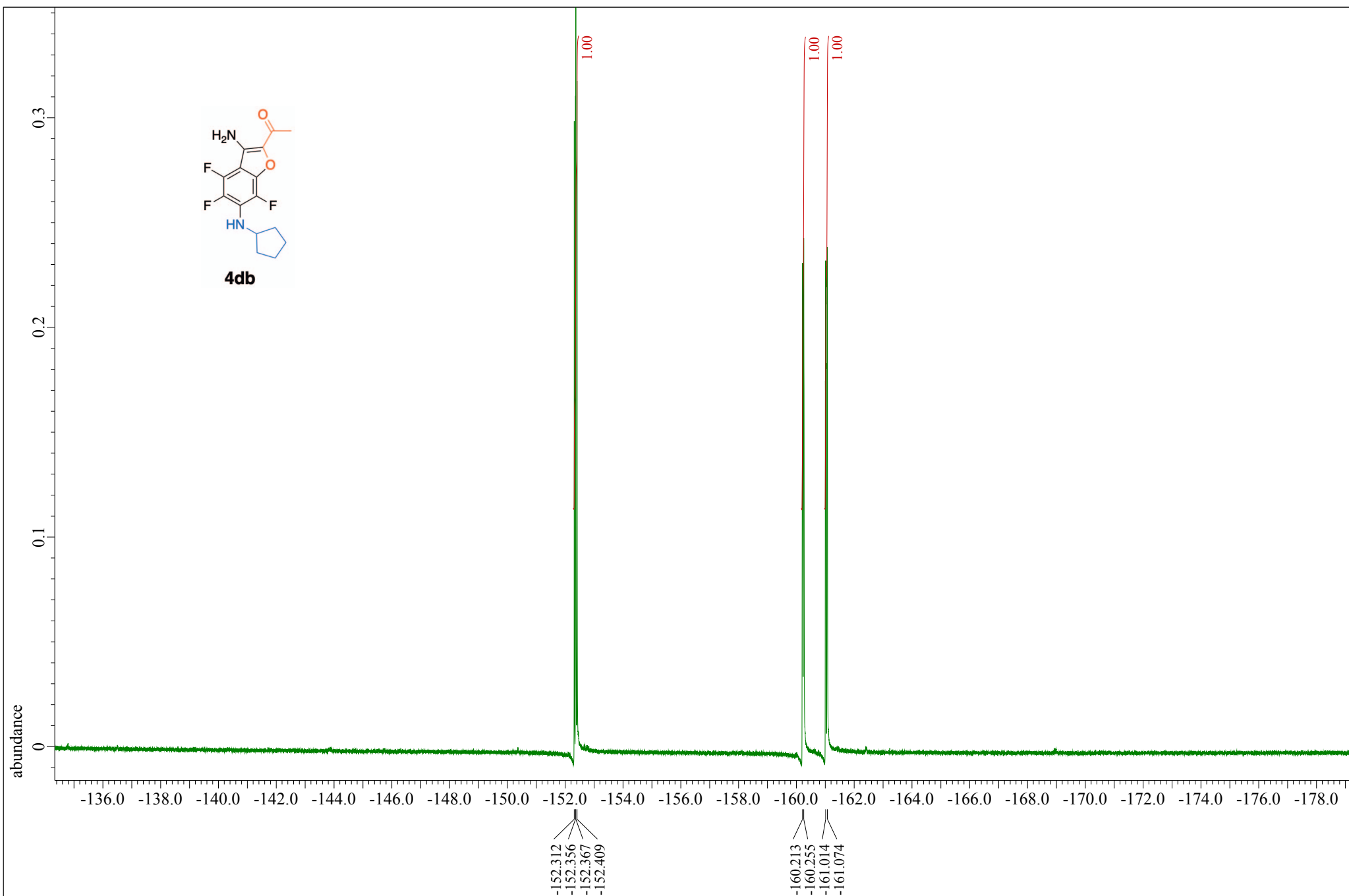


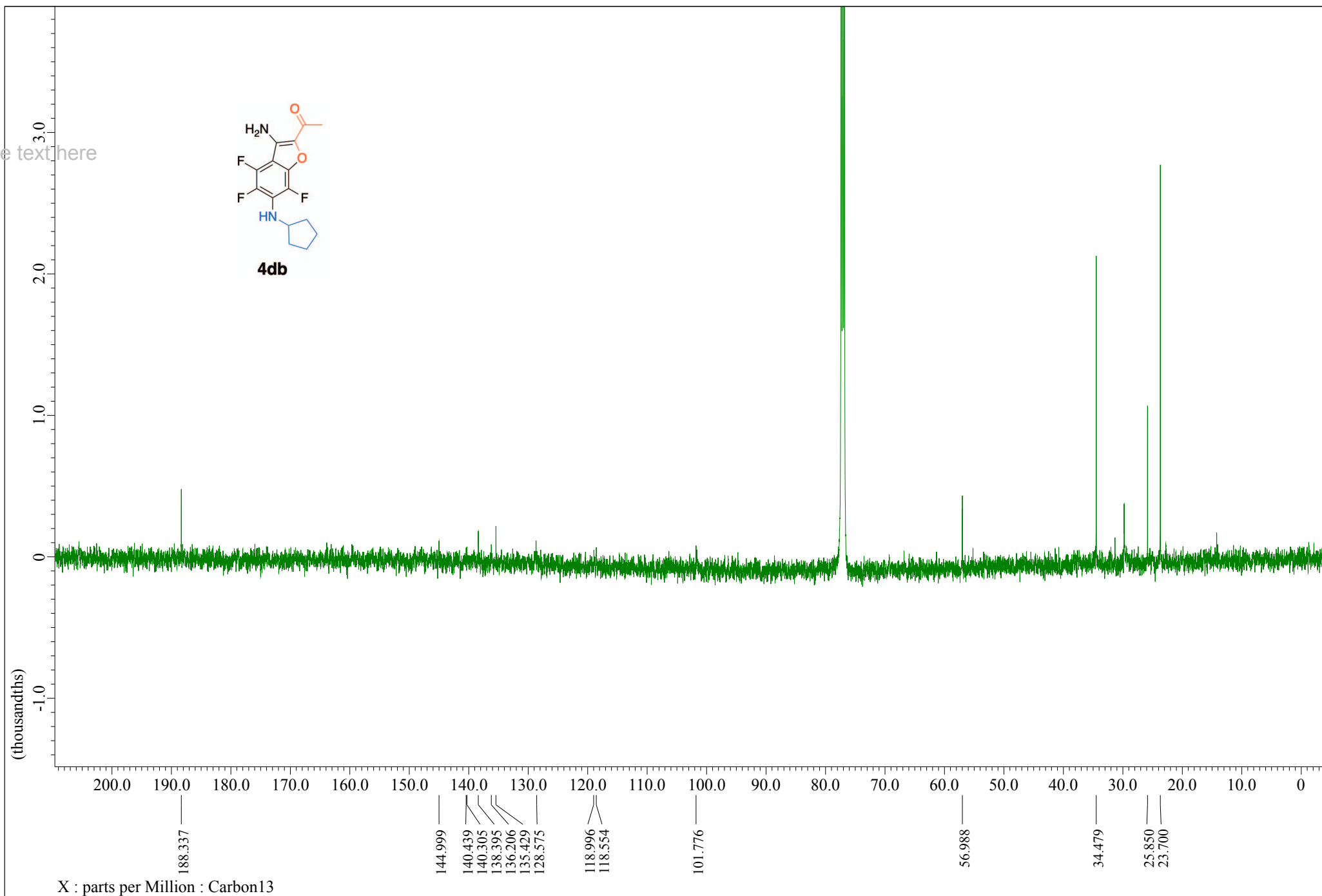
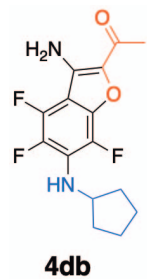


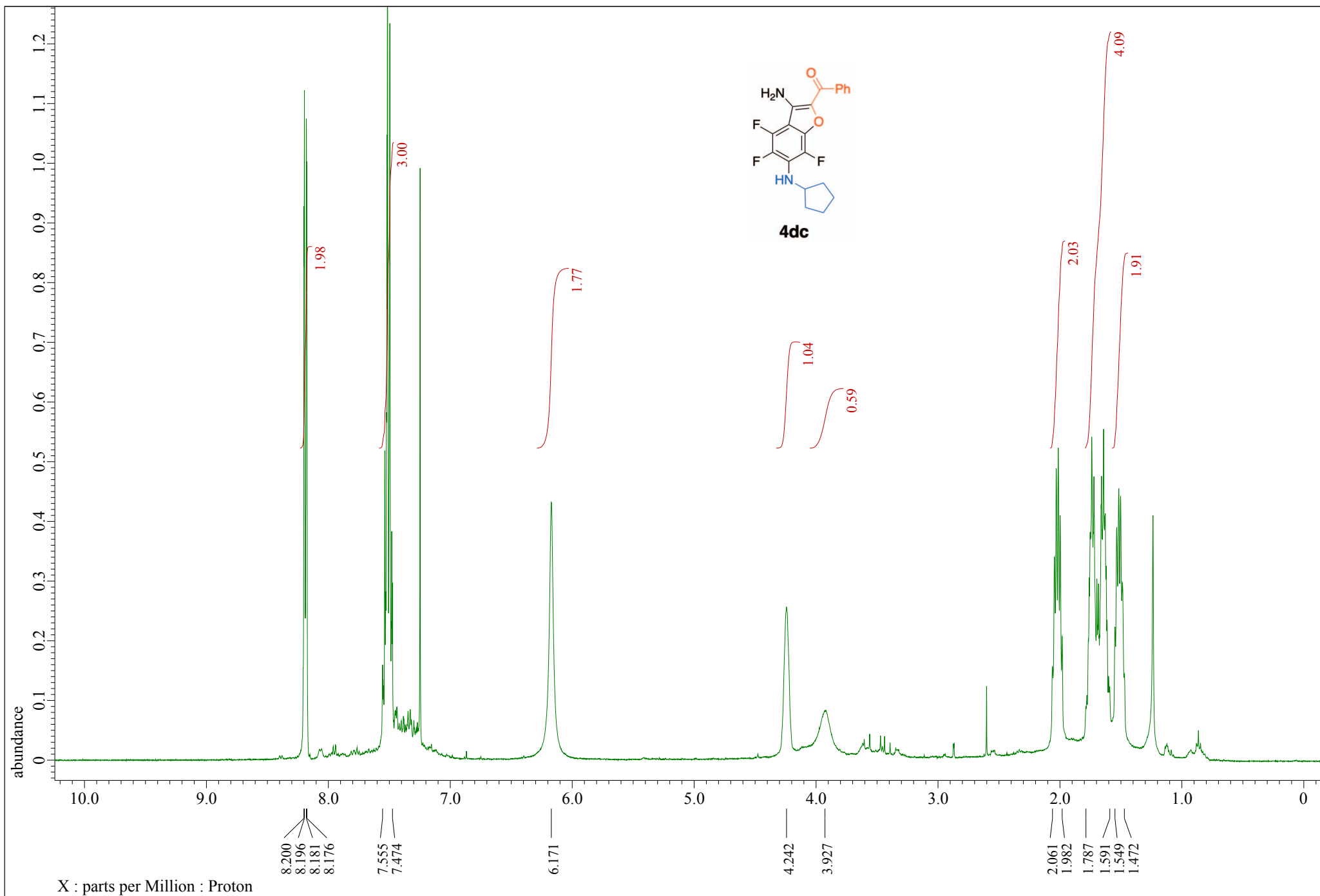


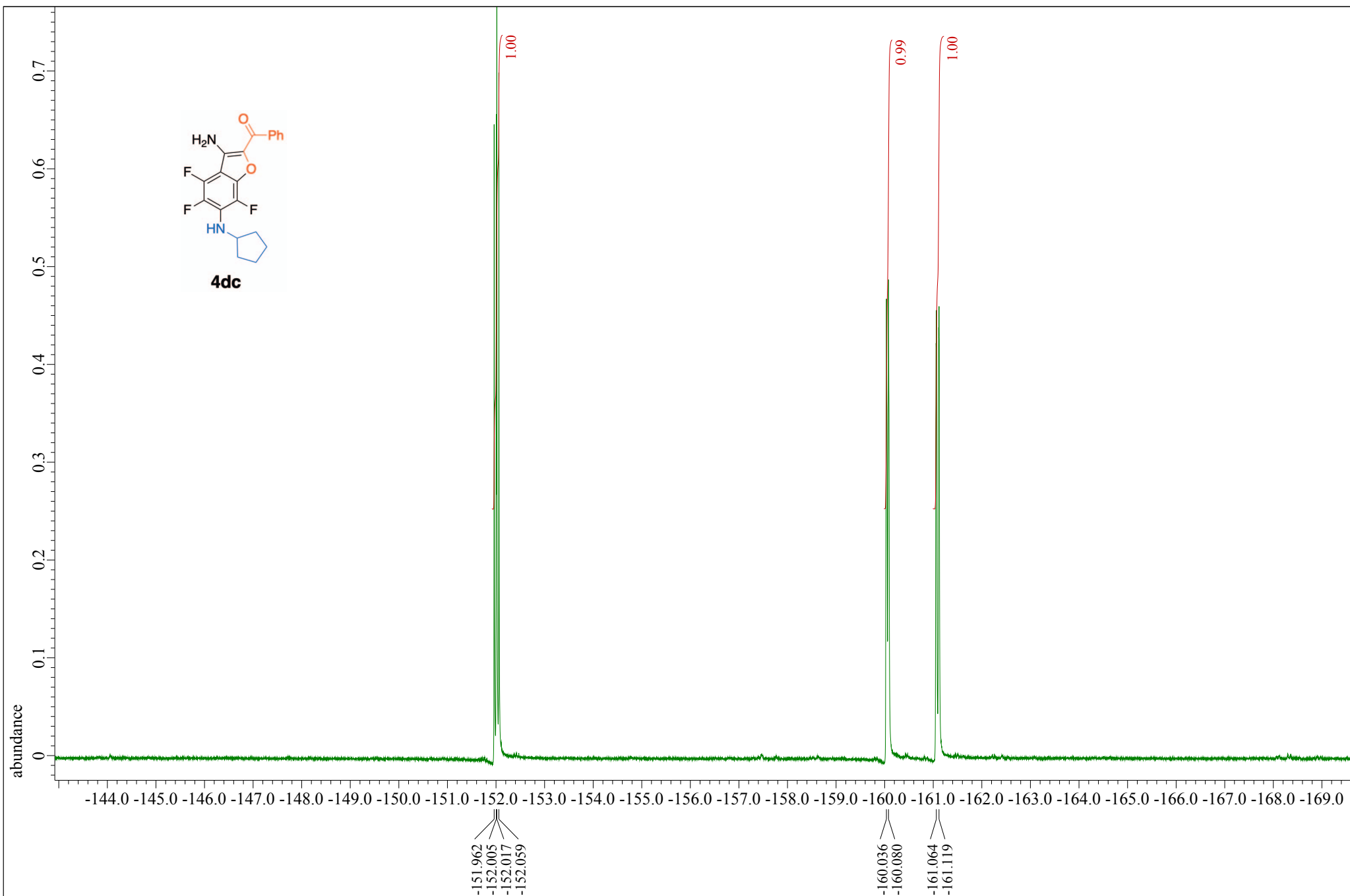
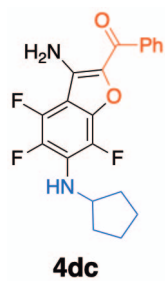


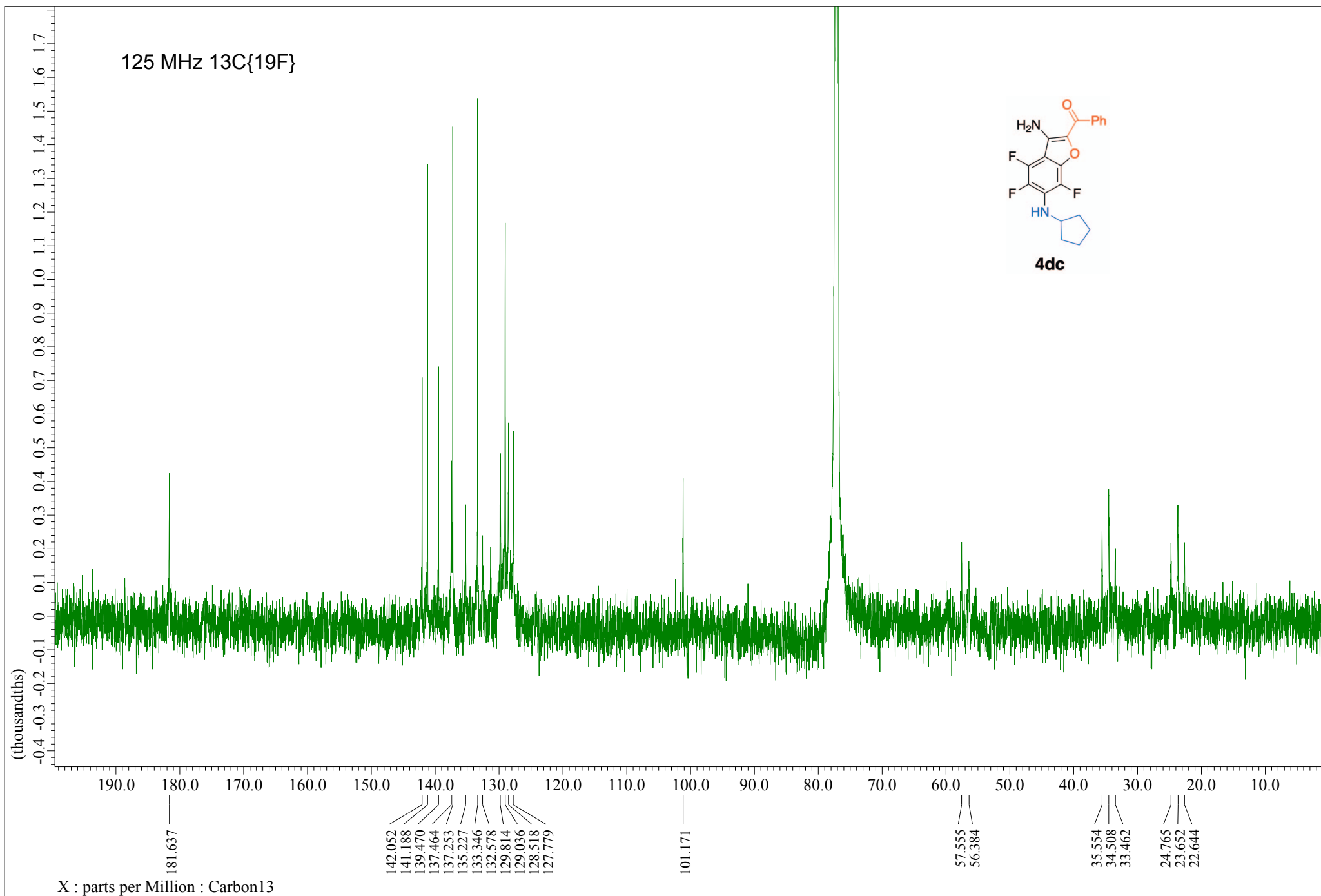


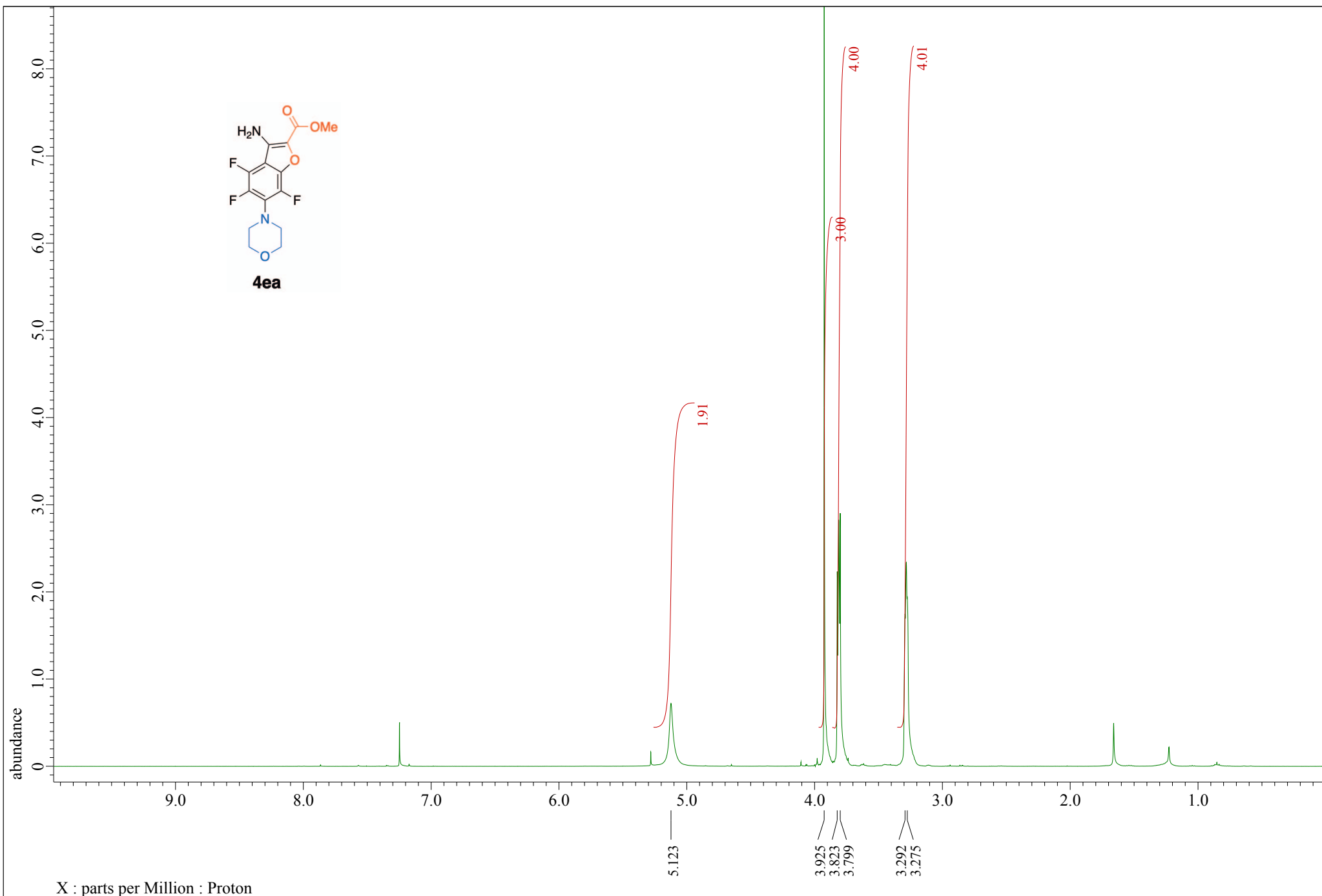
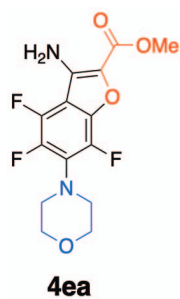


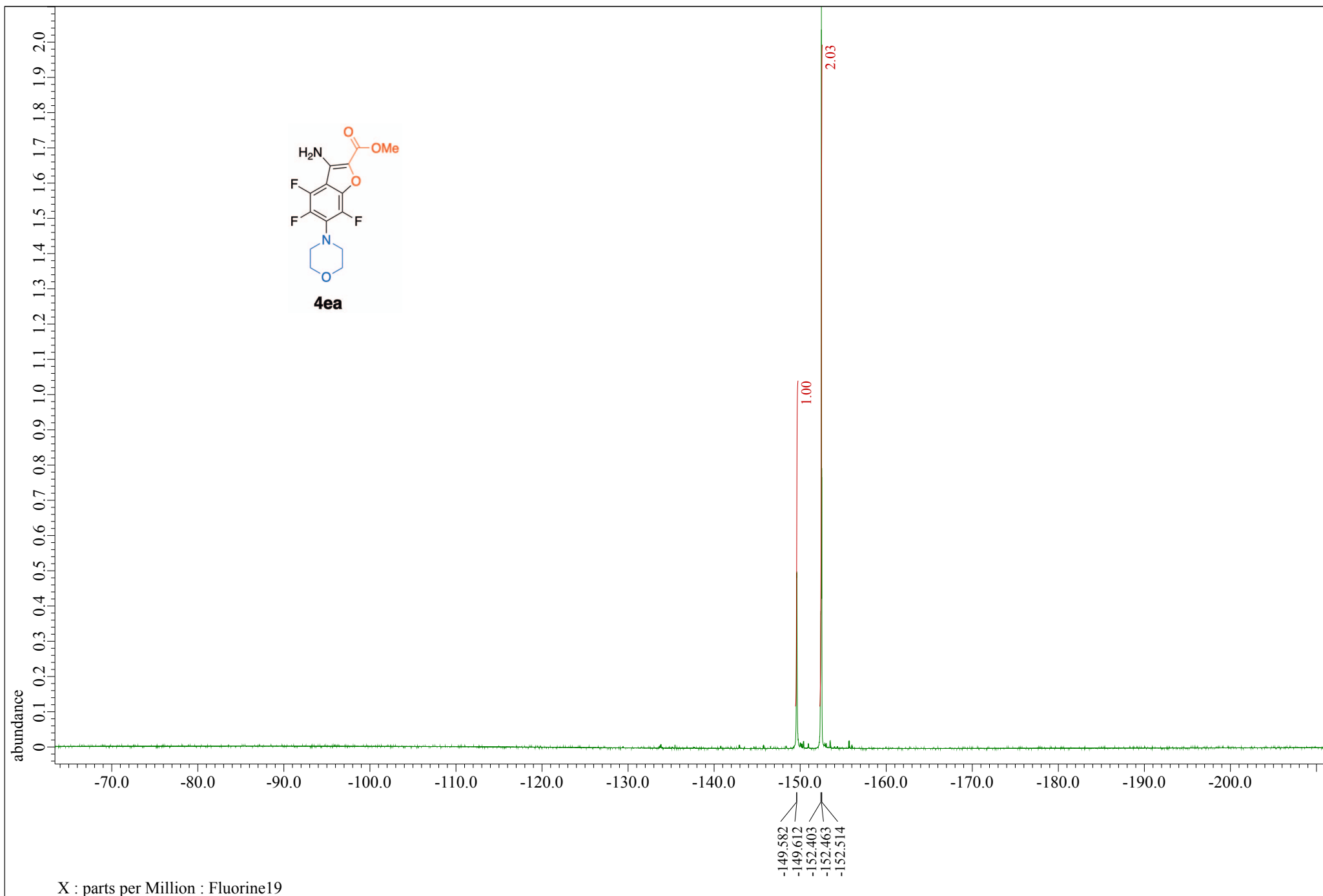


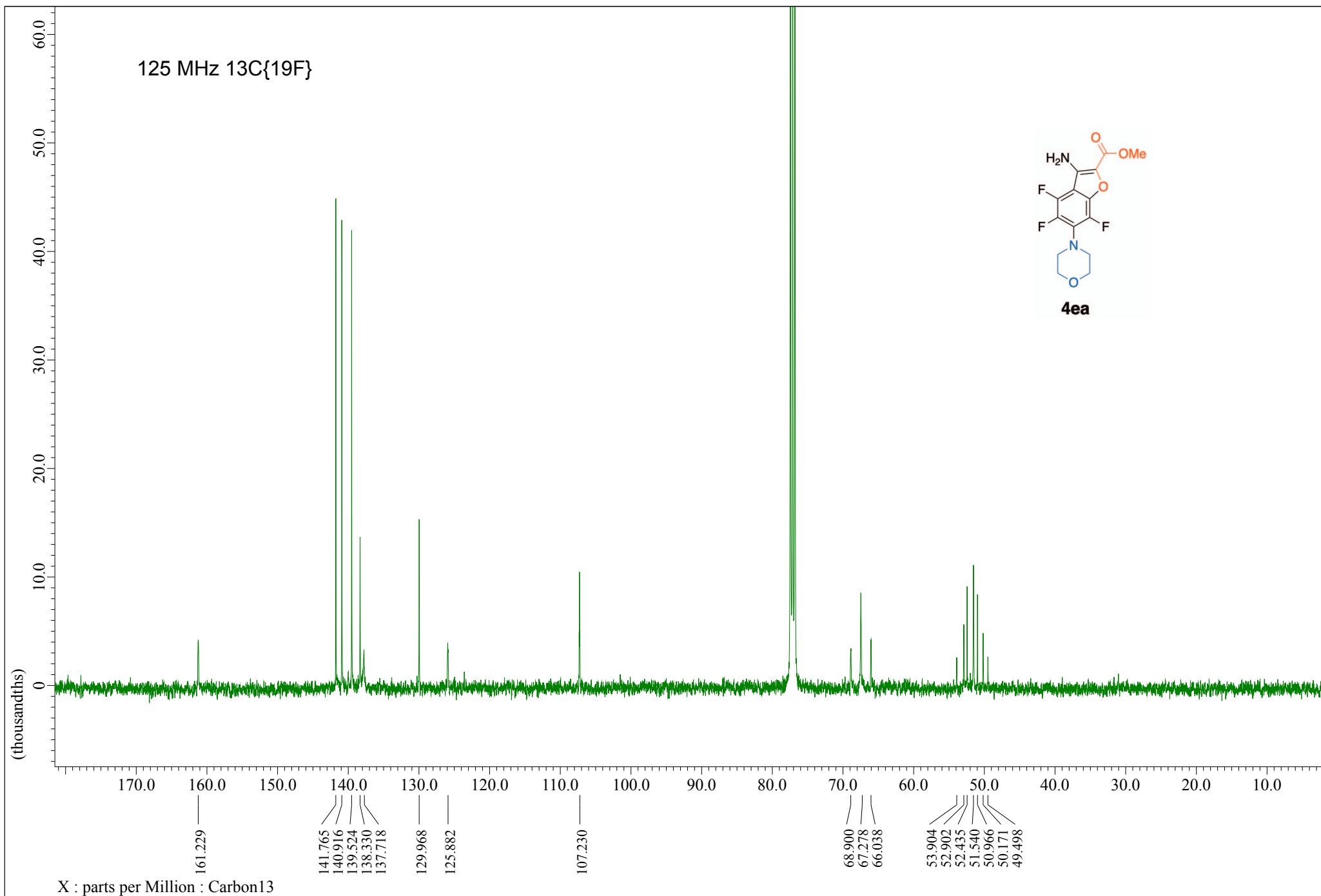


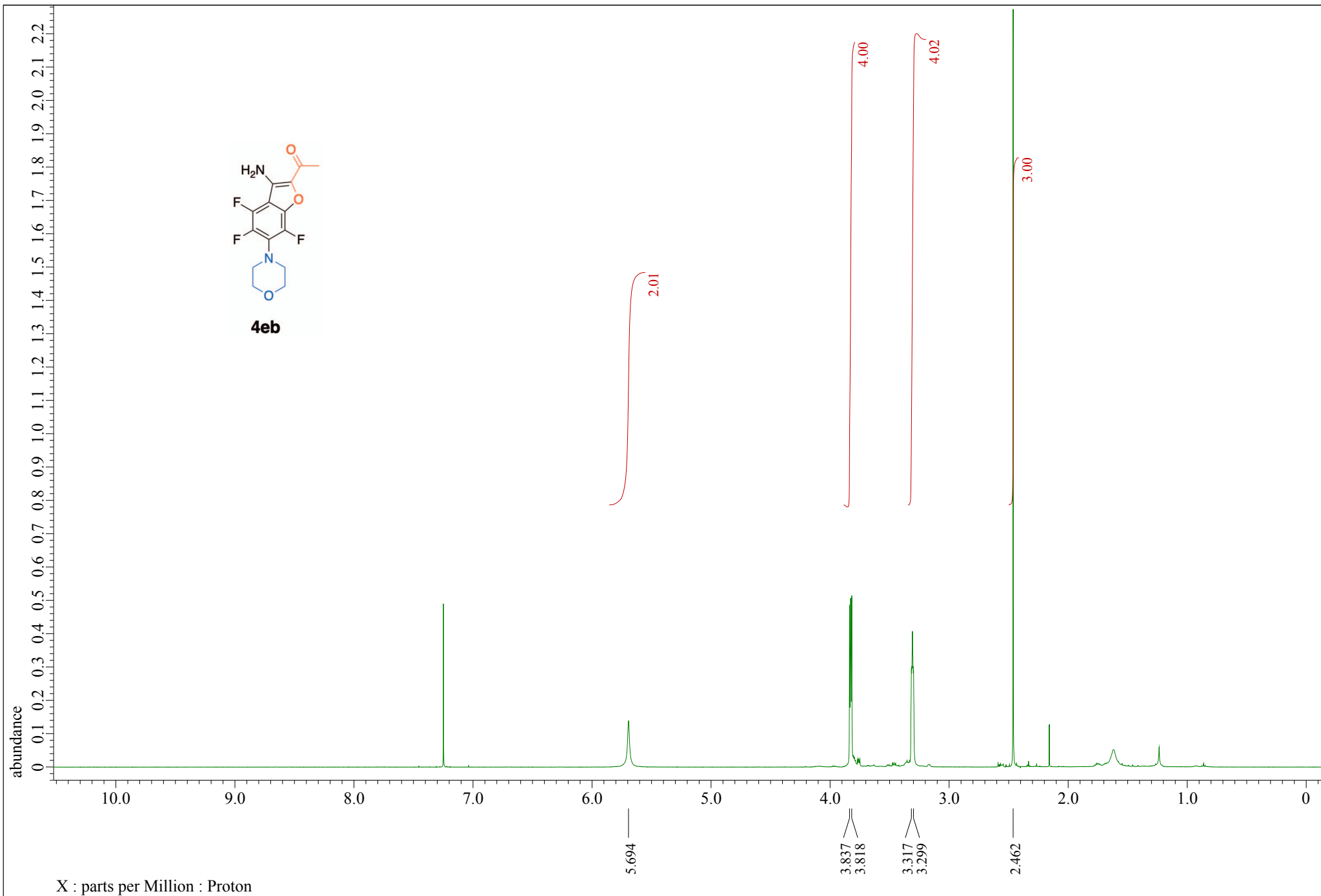
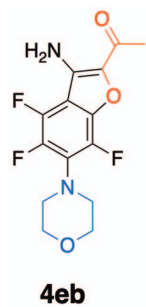


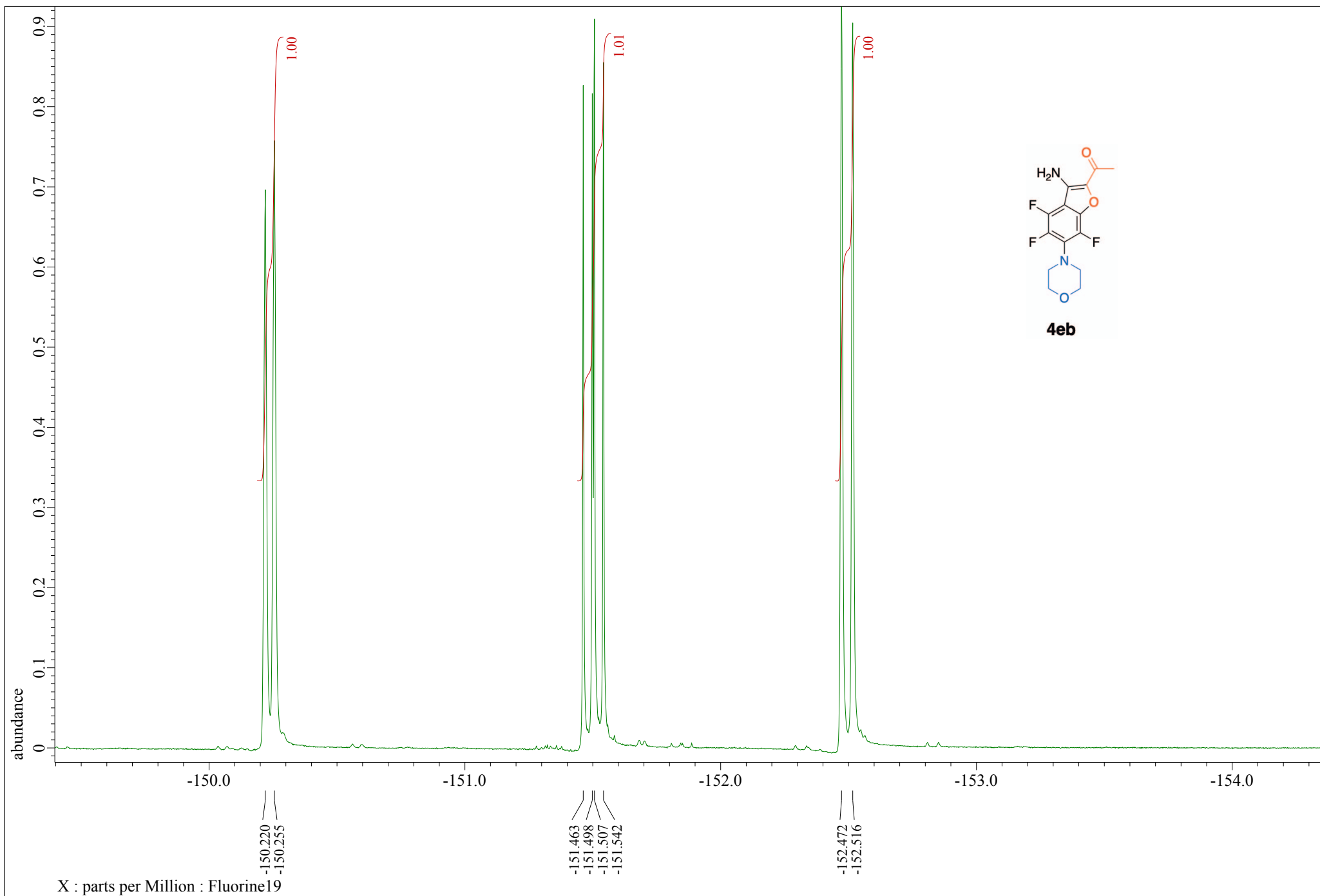


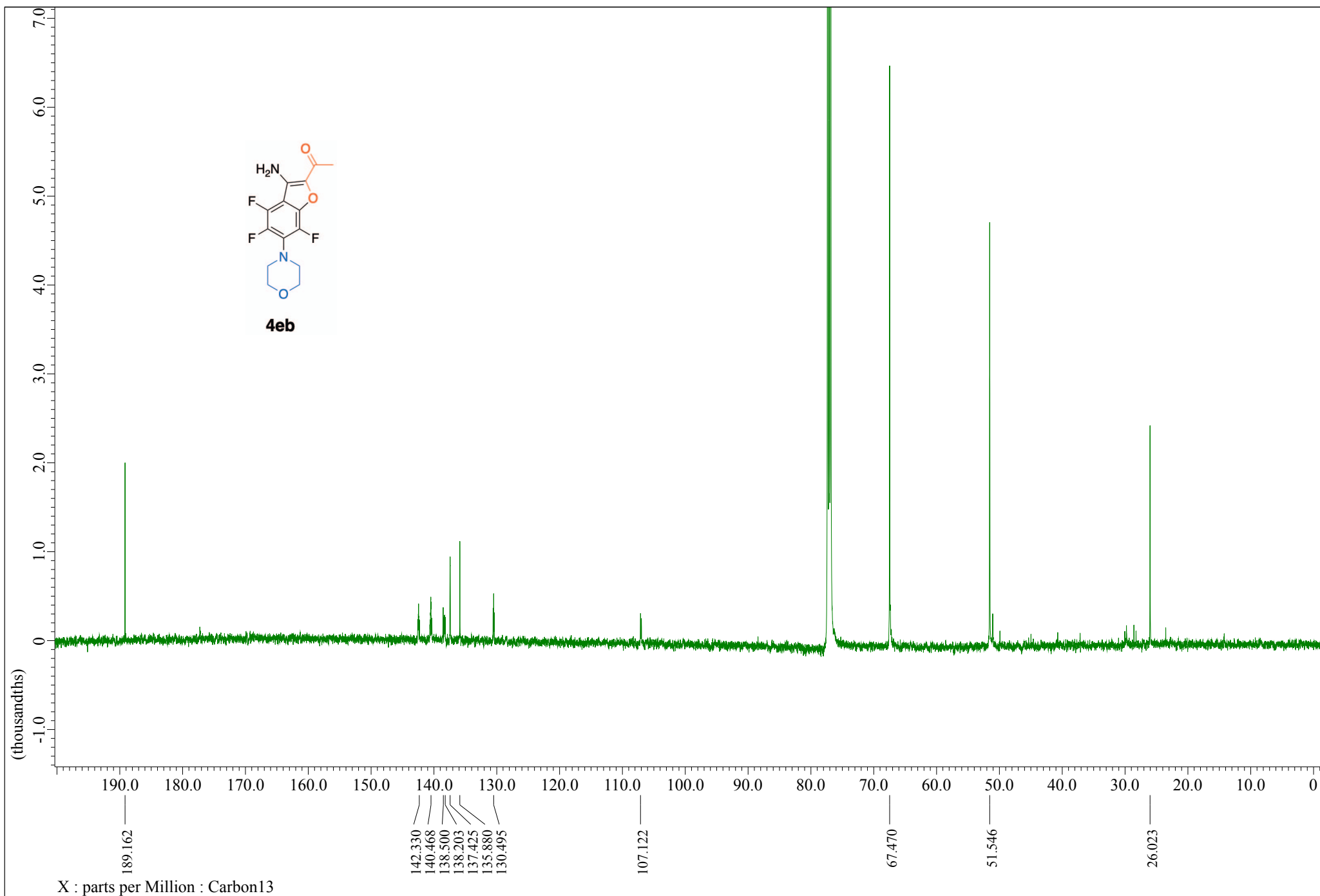
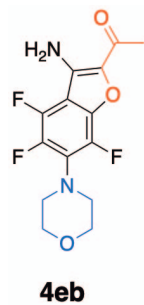




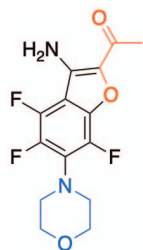




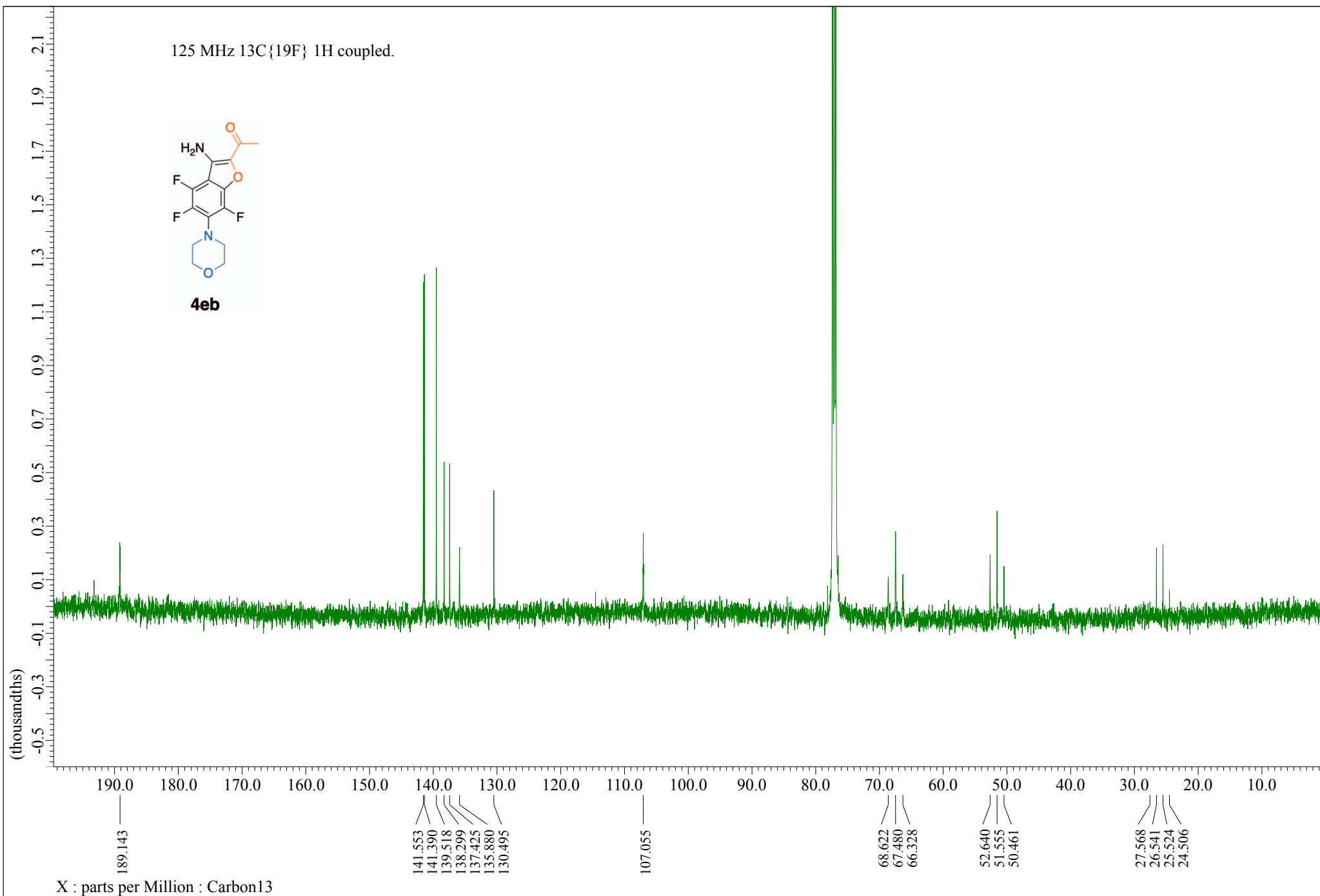


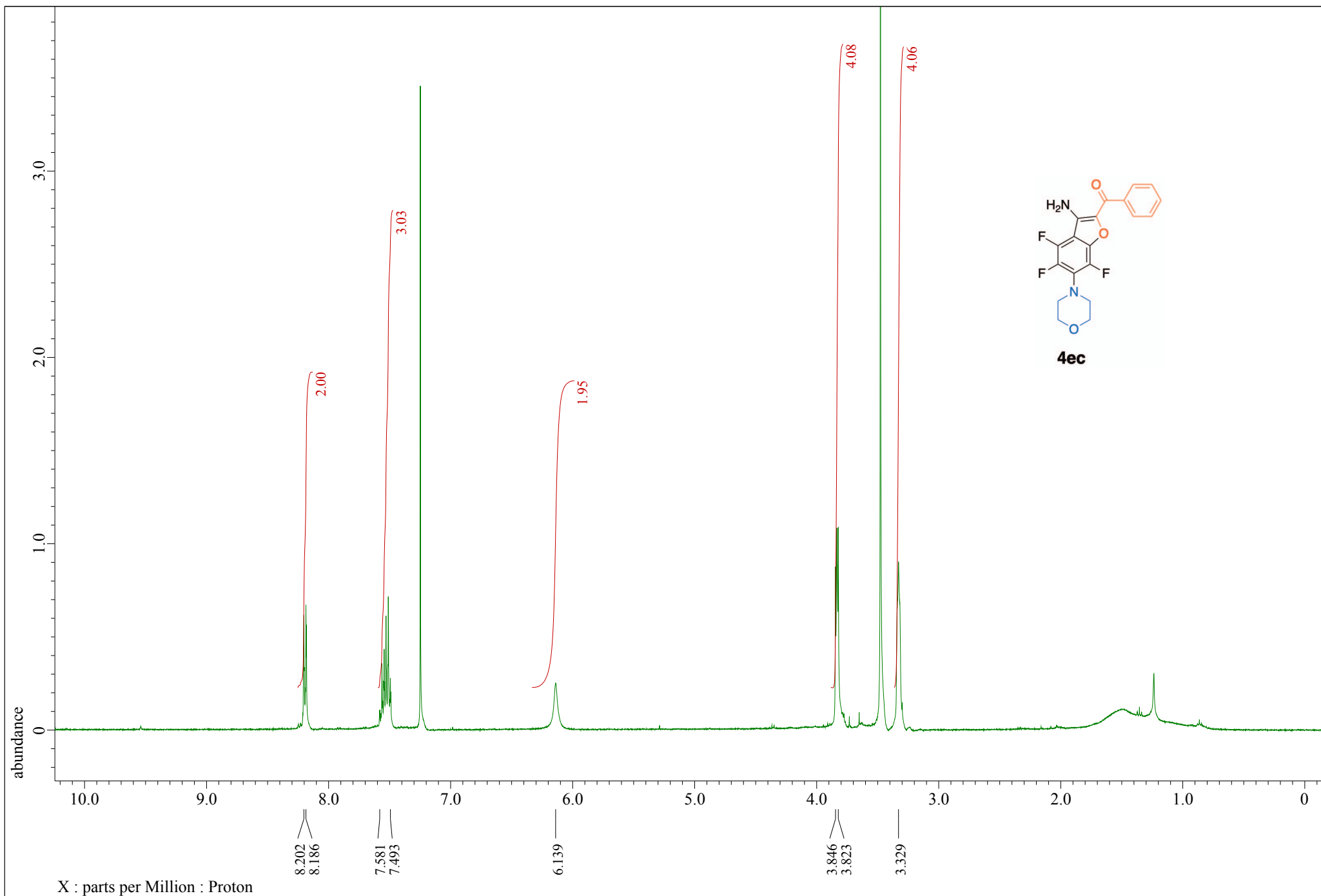


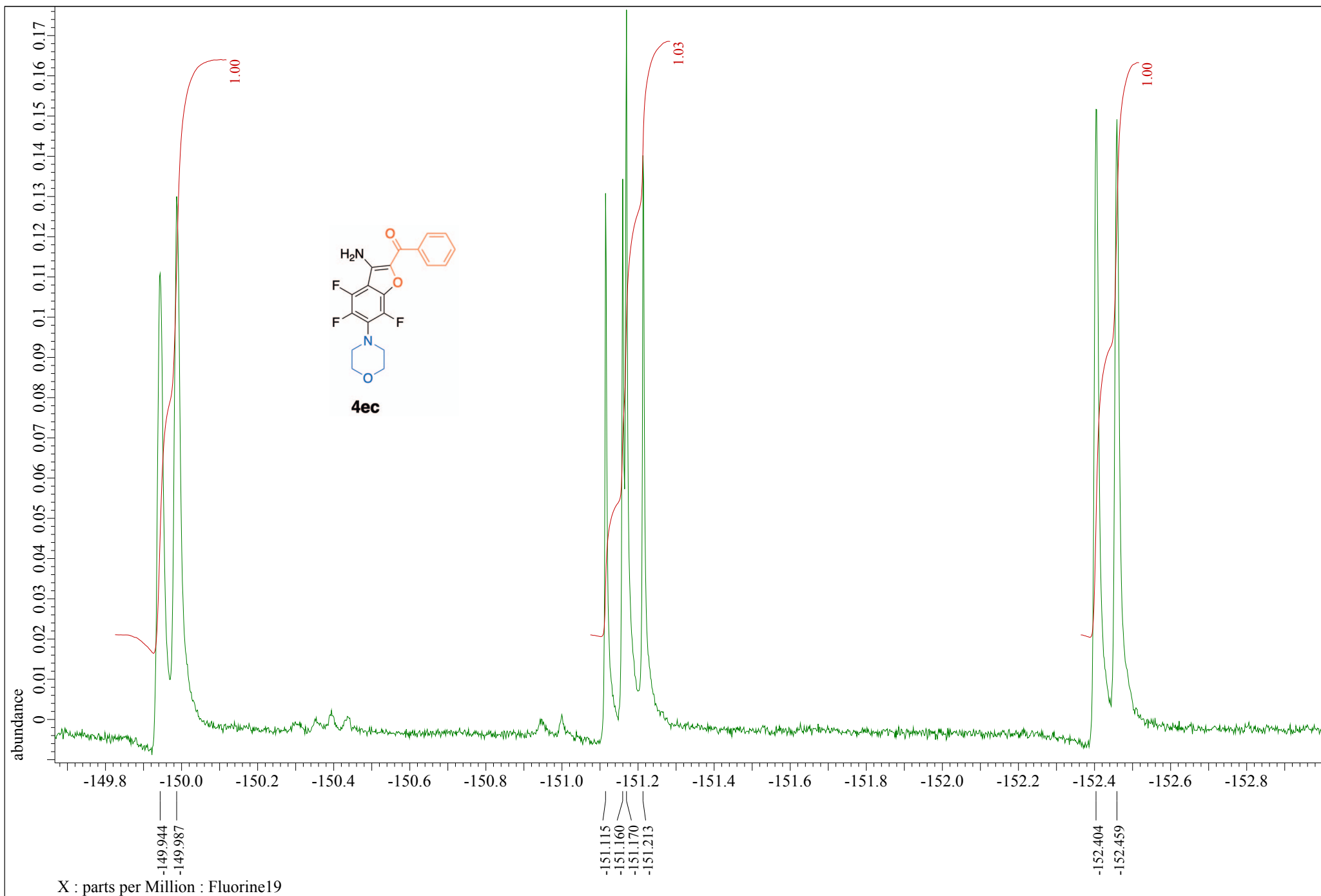
125 MHz $^{13}\text{C}\{^{19}\text{F}\}$ 1H coupled.



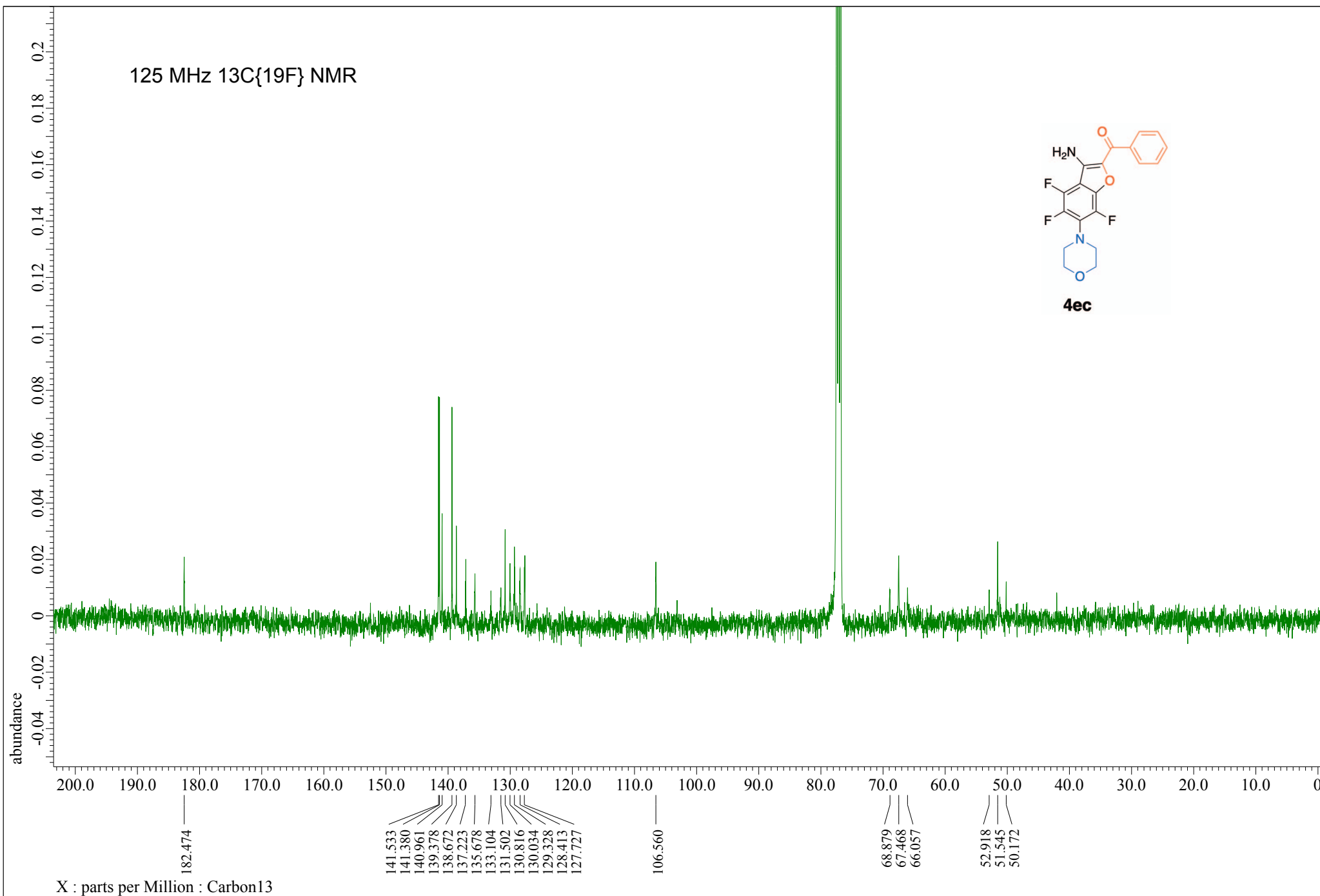
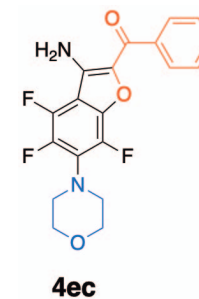
4eb

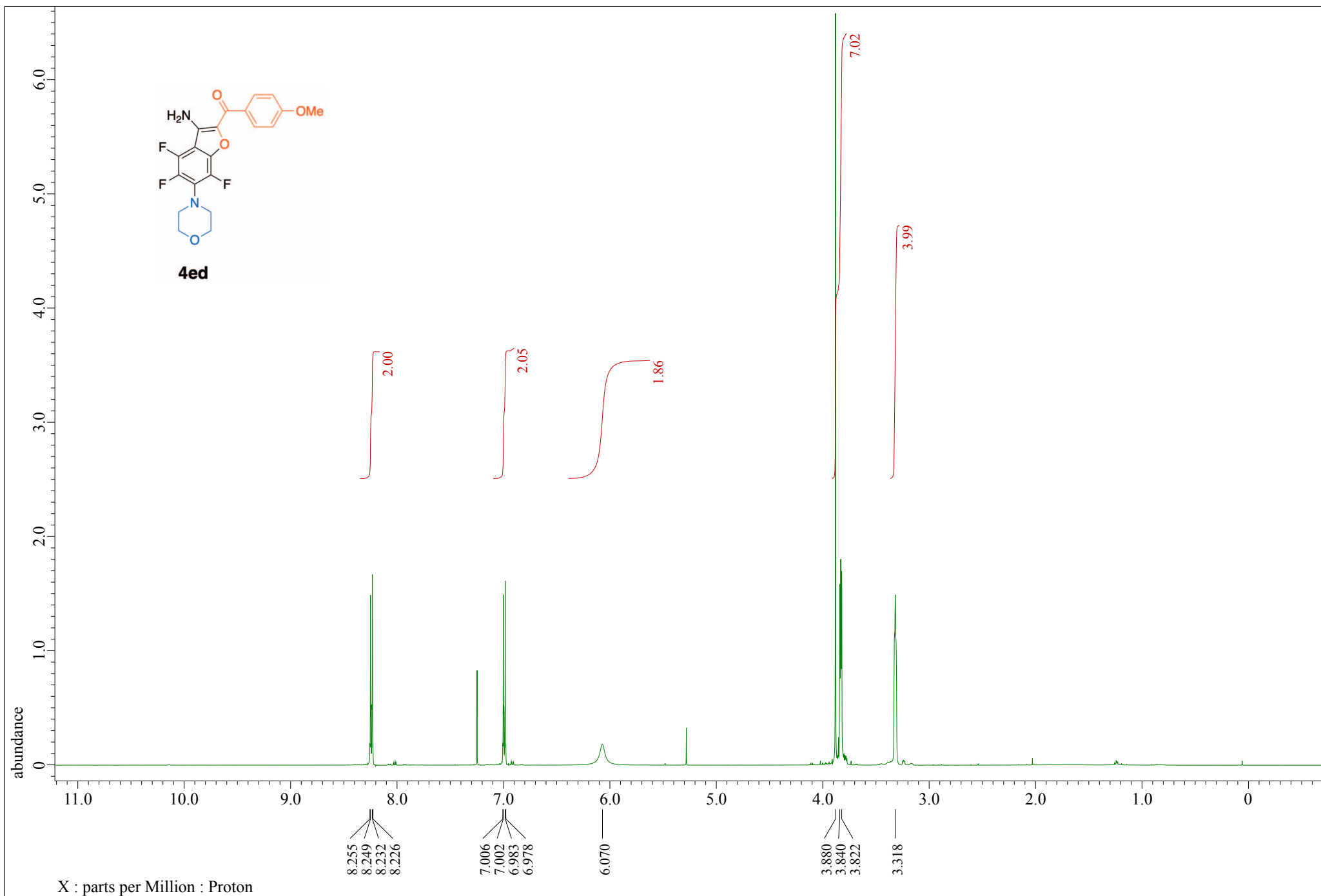


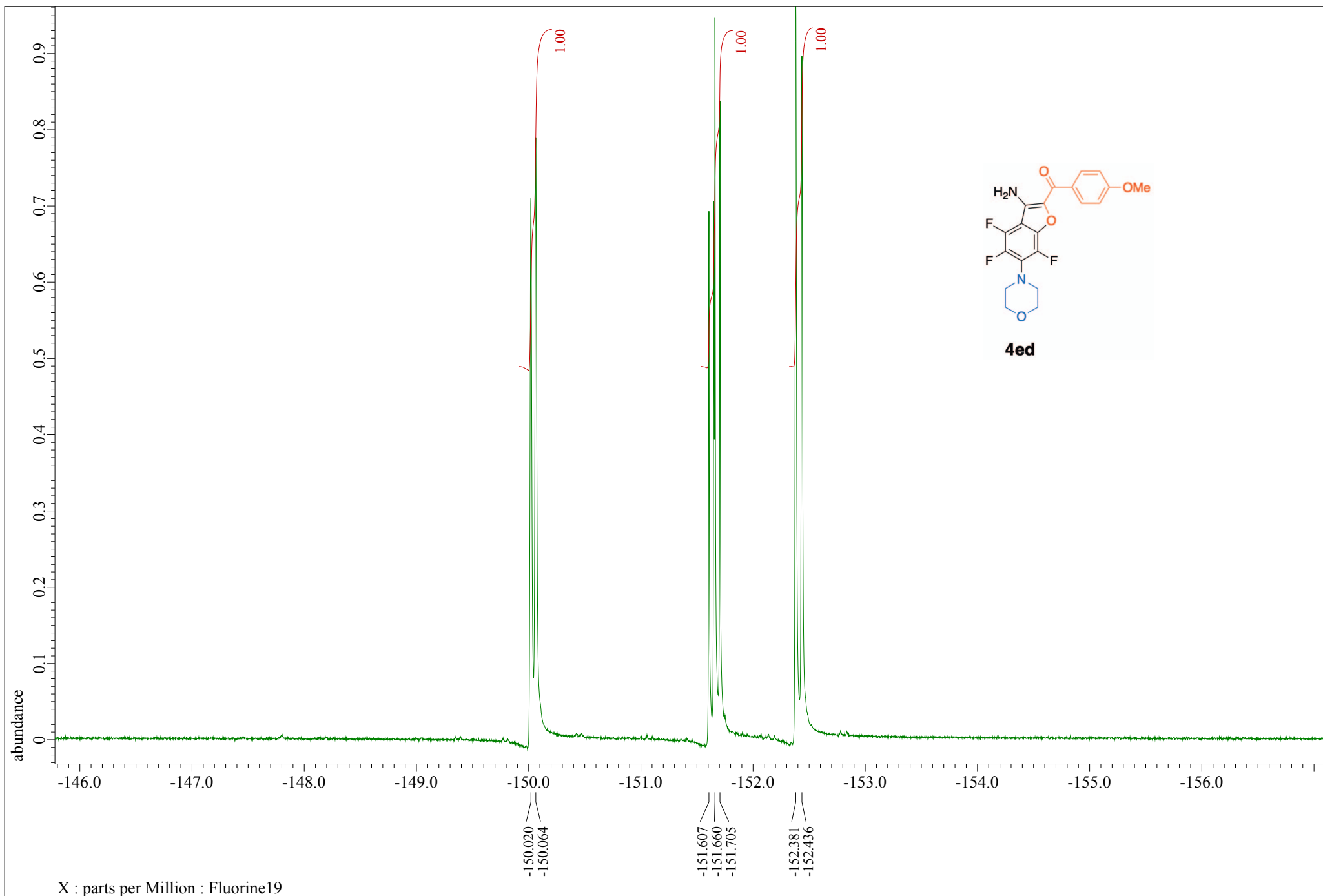


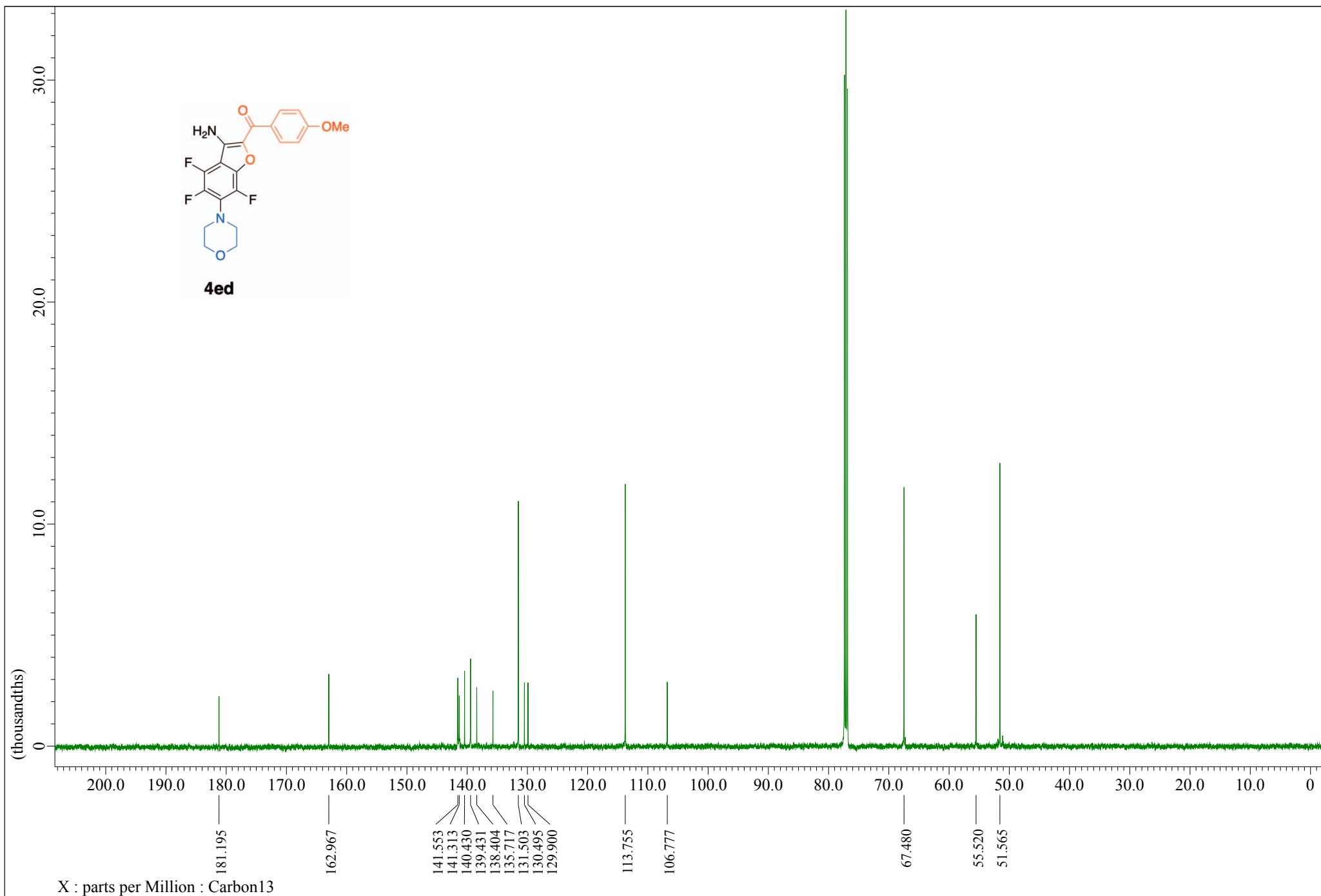
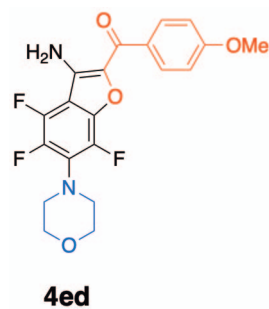


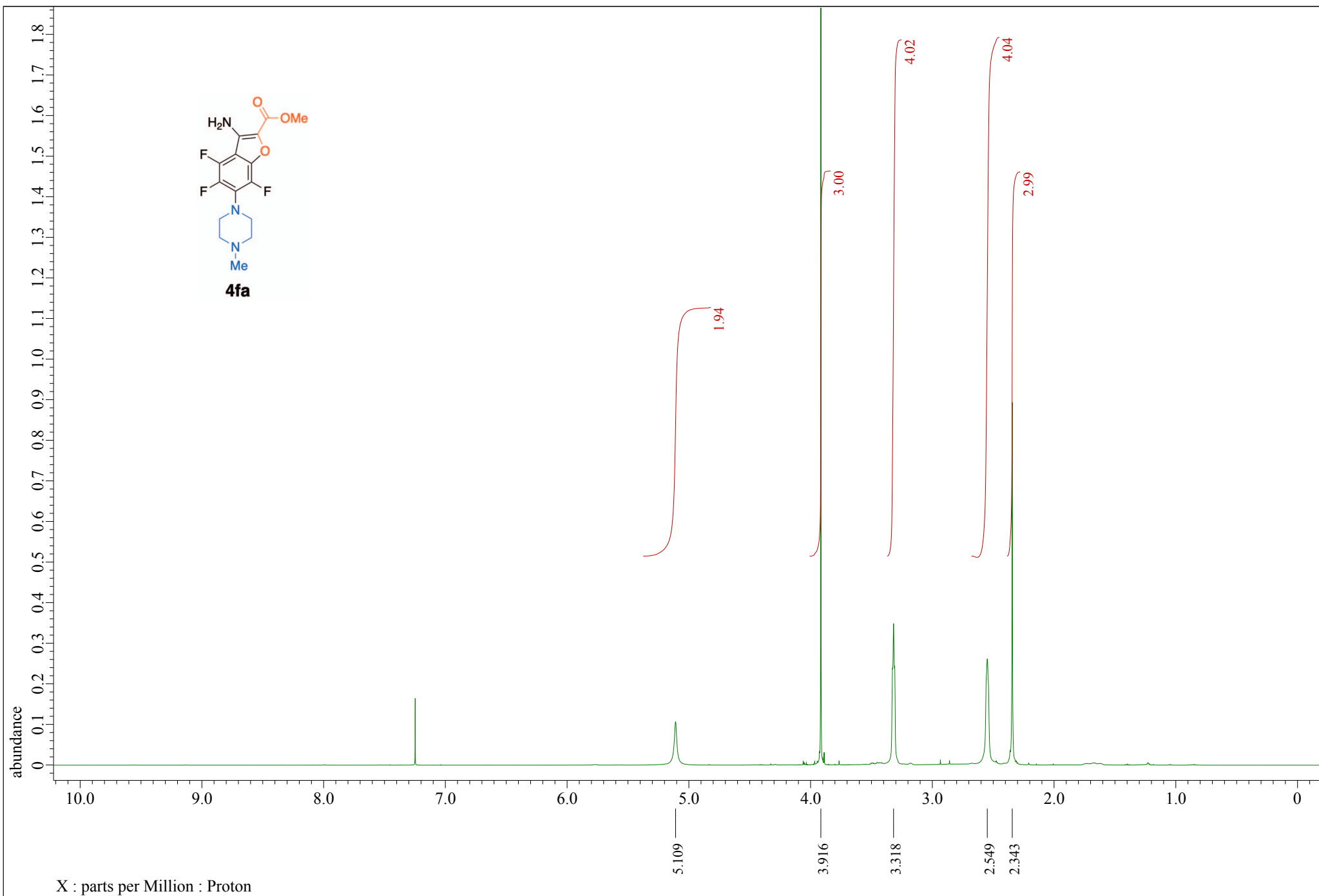
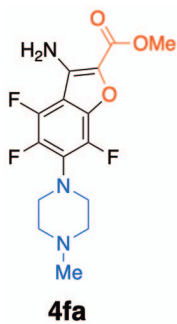
125 MHz $^{13}\text{C}\{^{19}\text{F}\}$ NMR

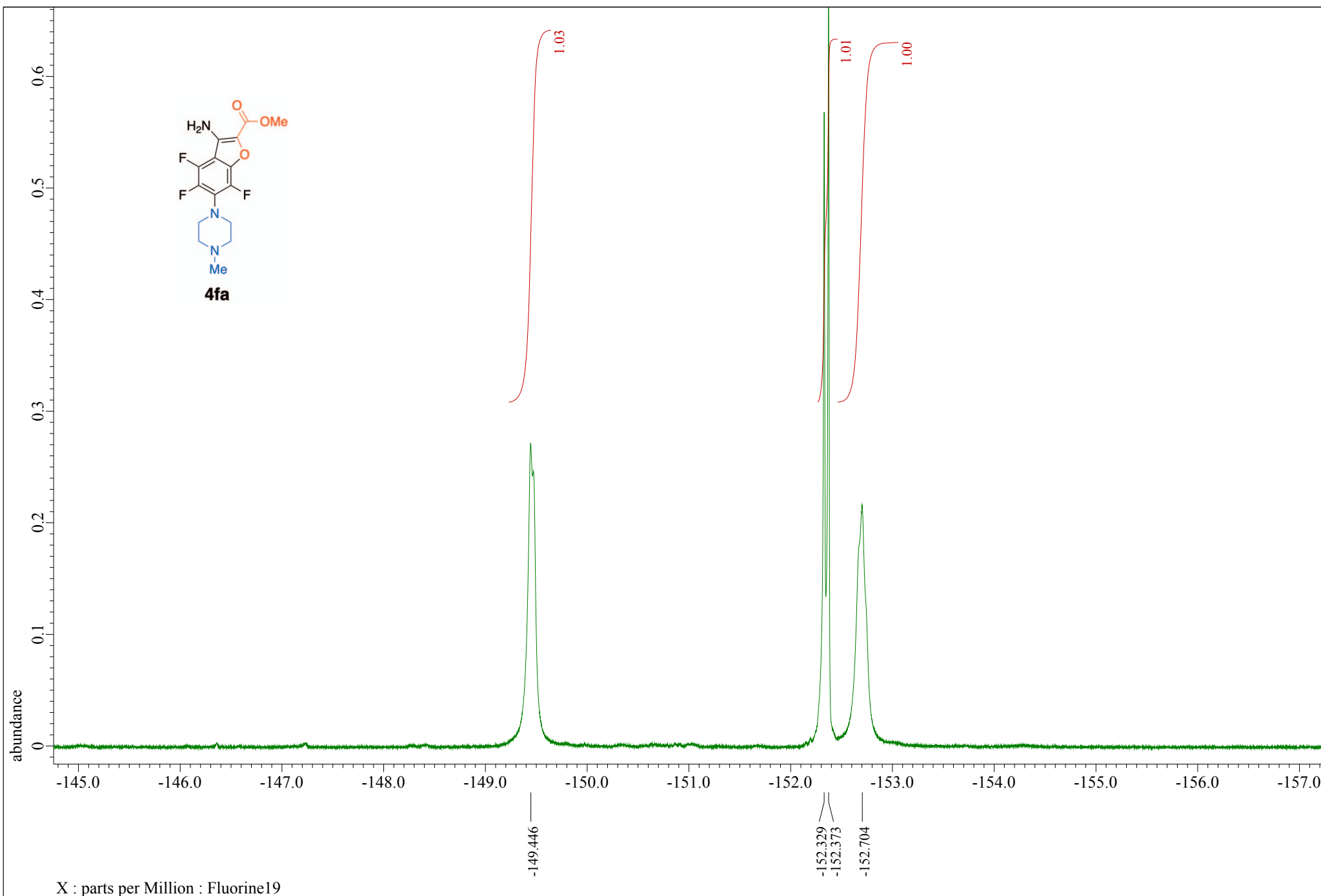
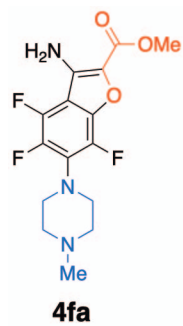


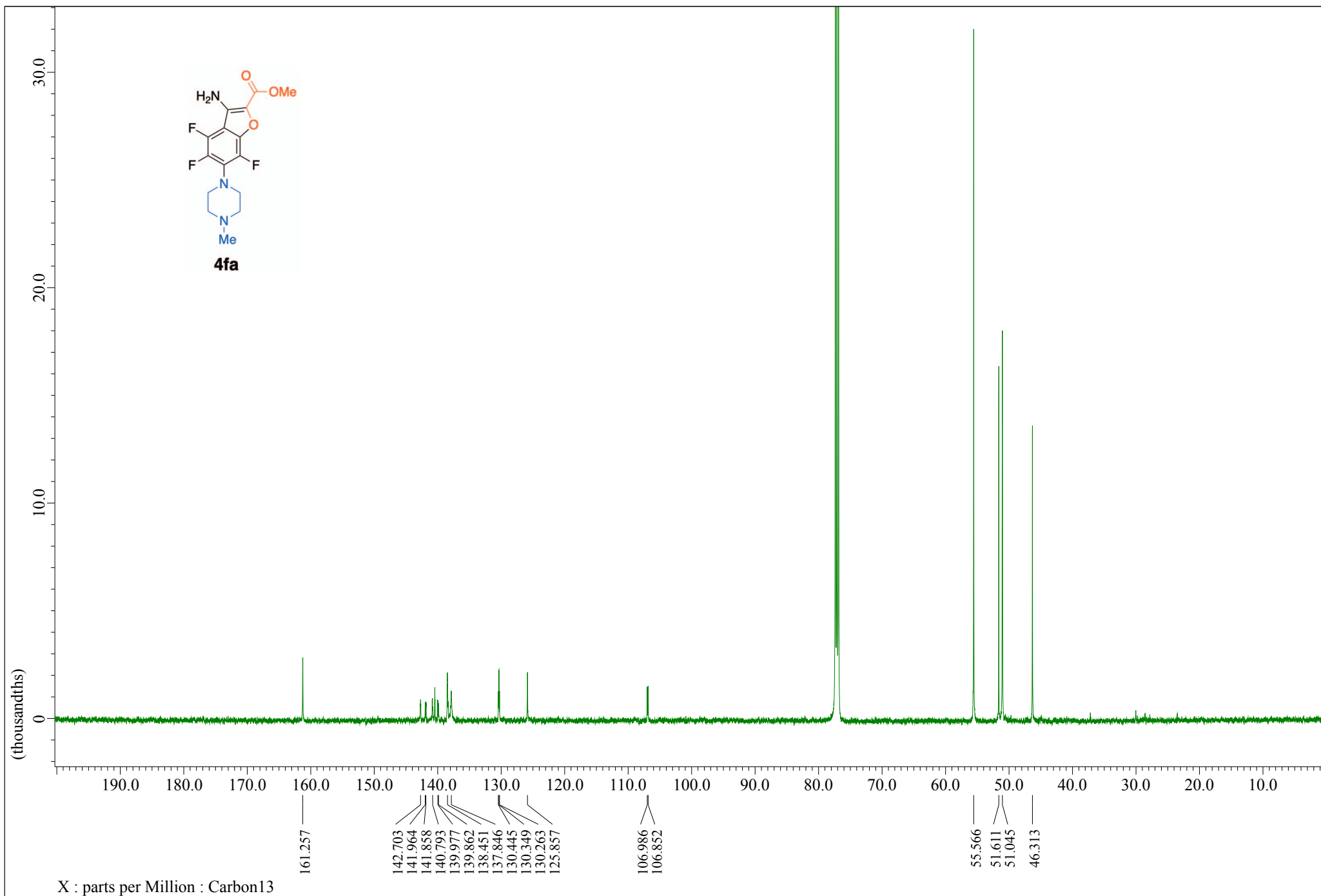
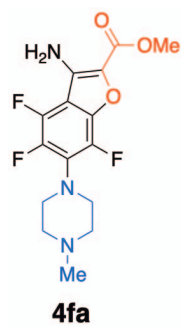


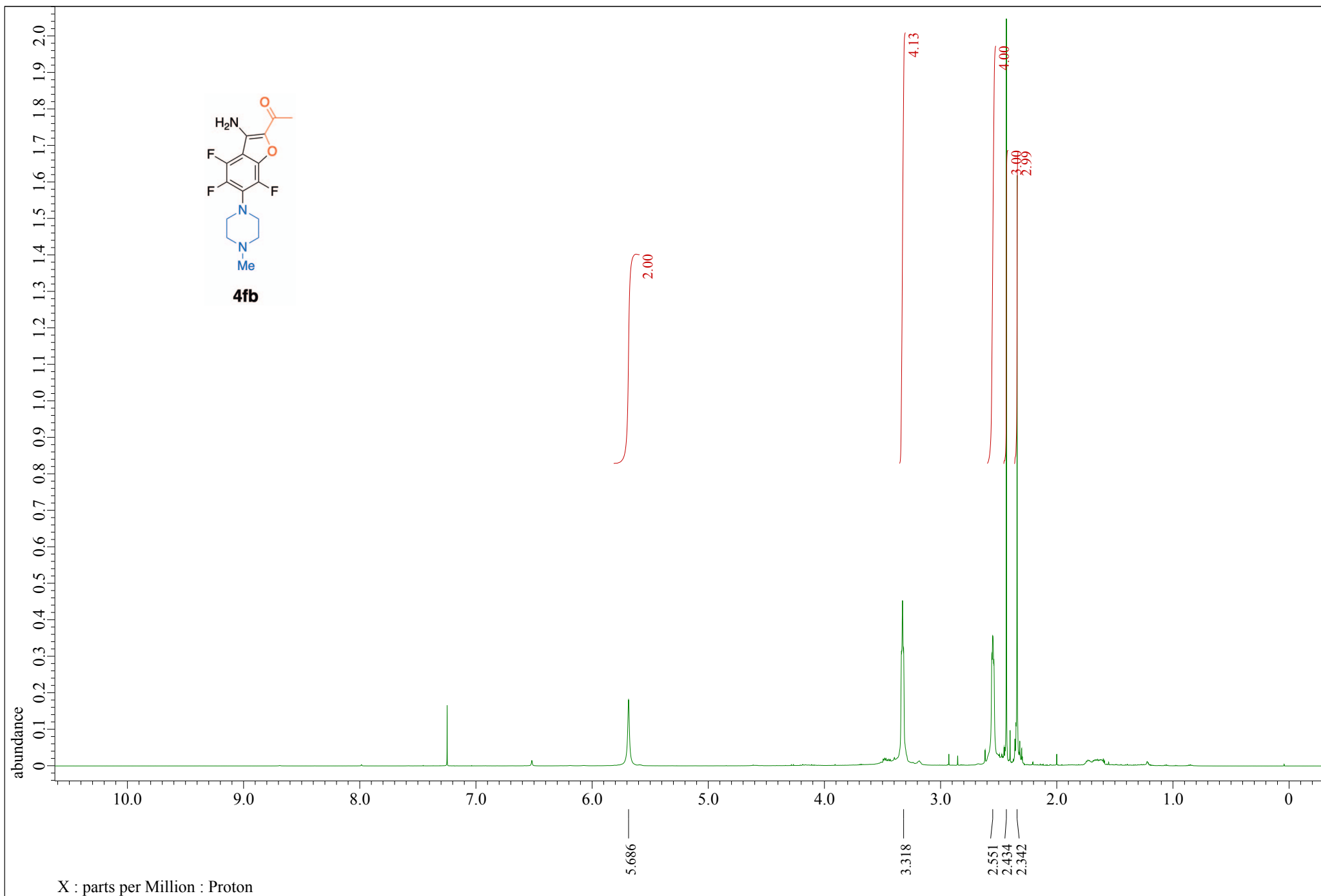


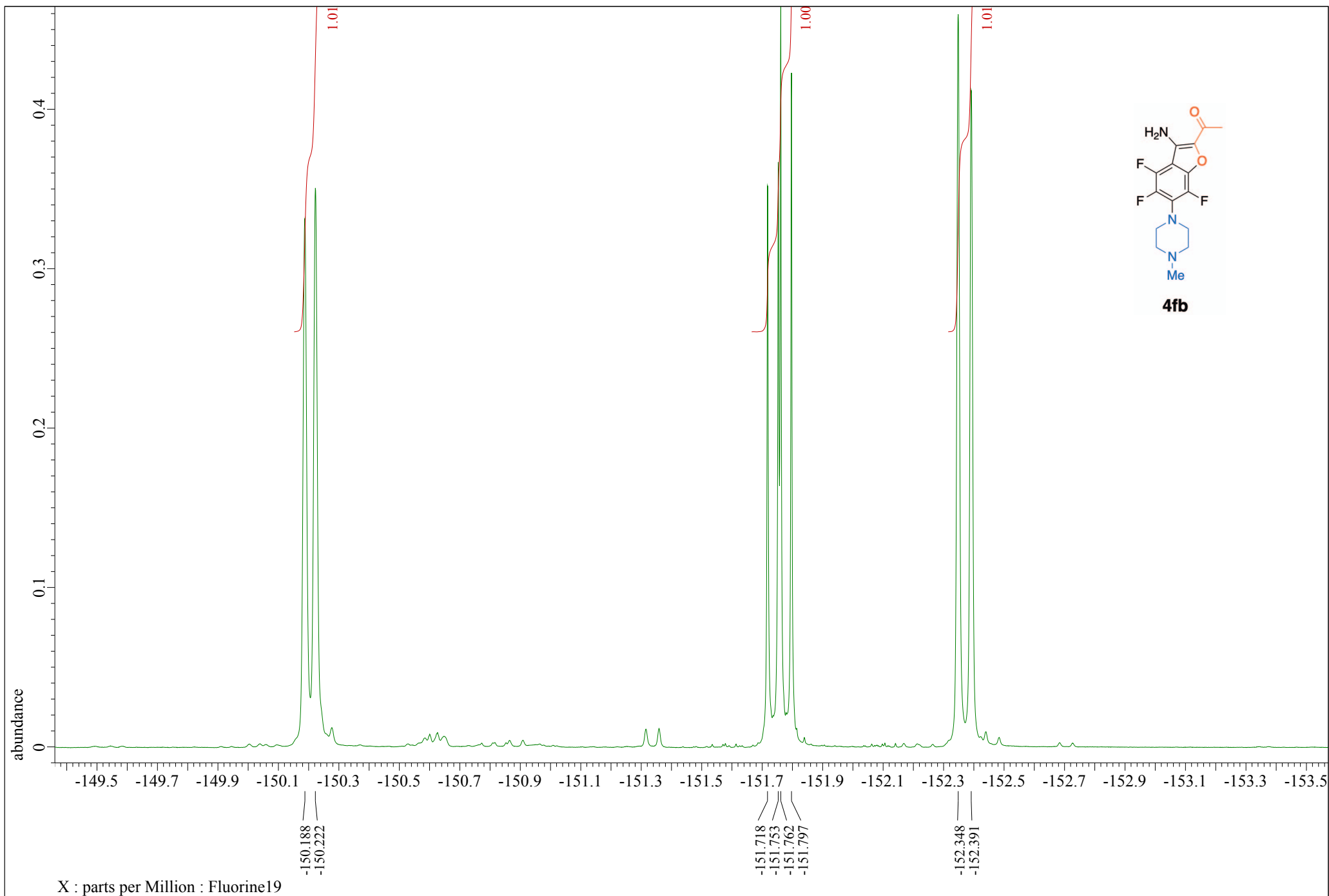


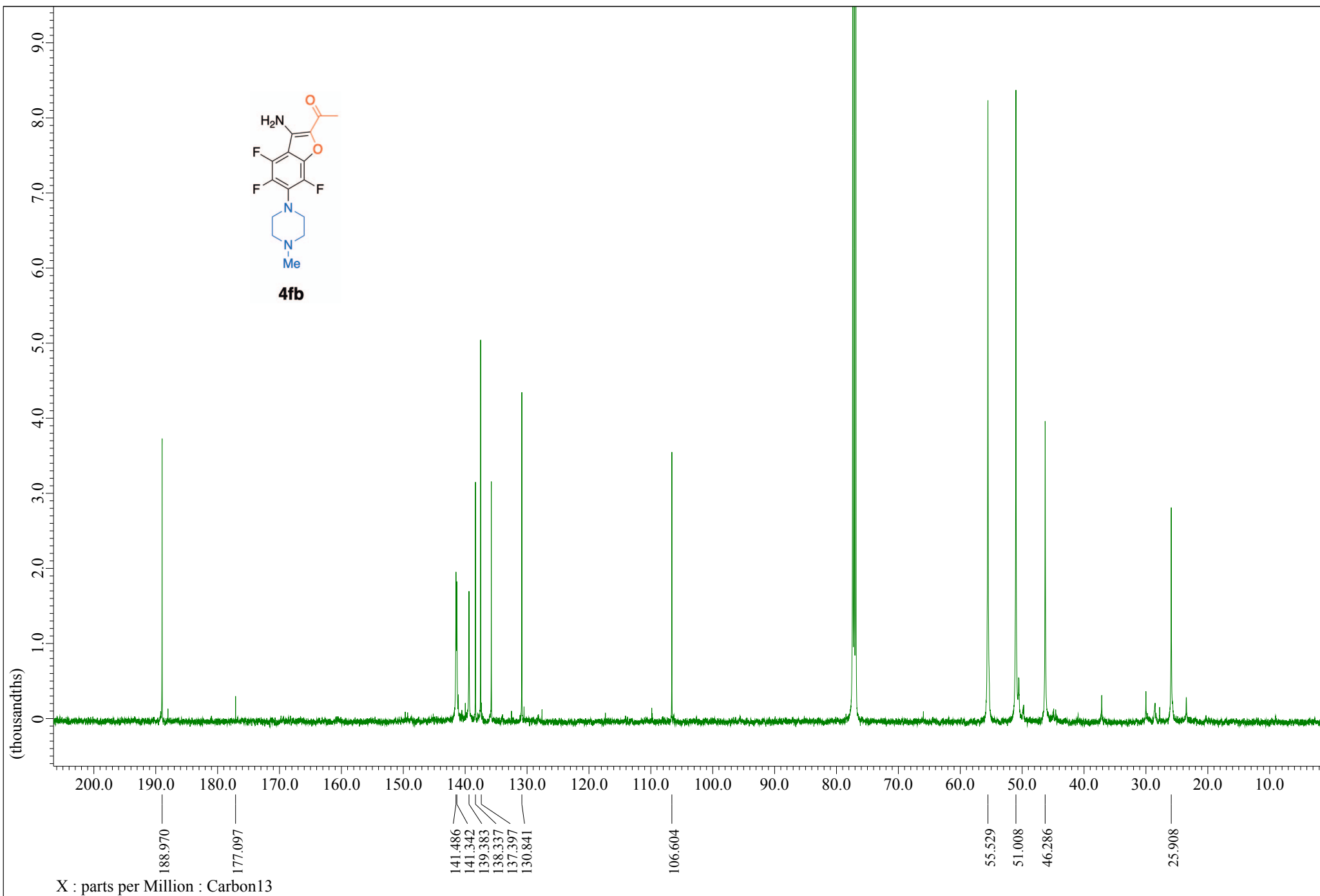
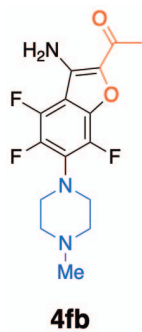


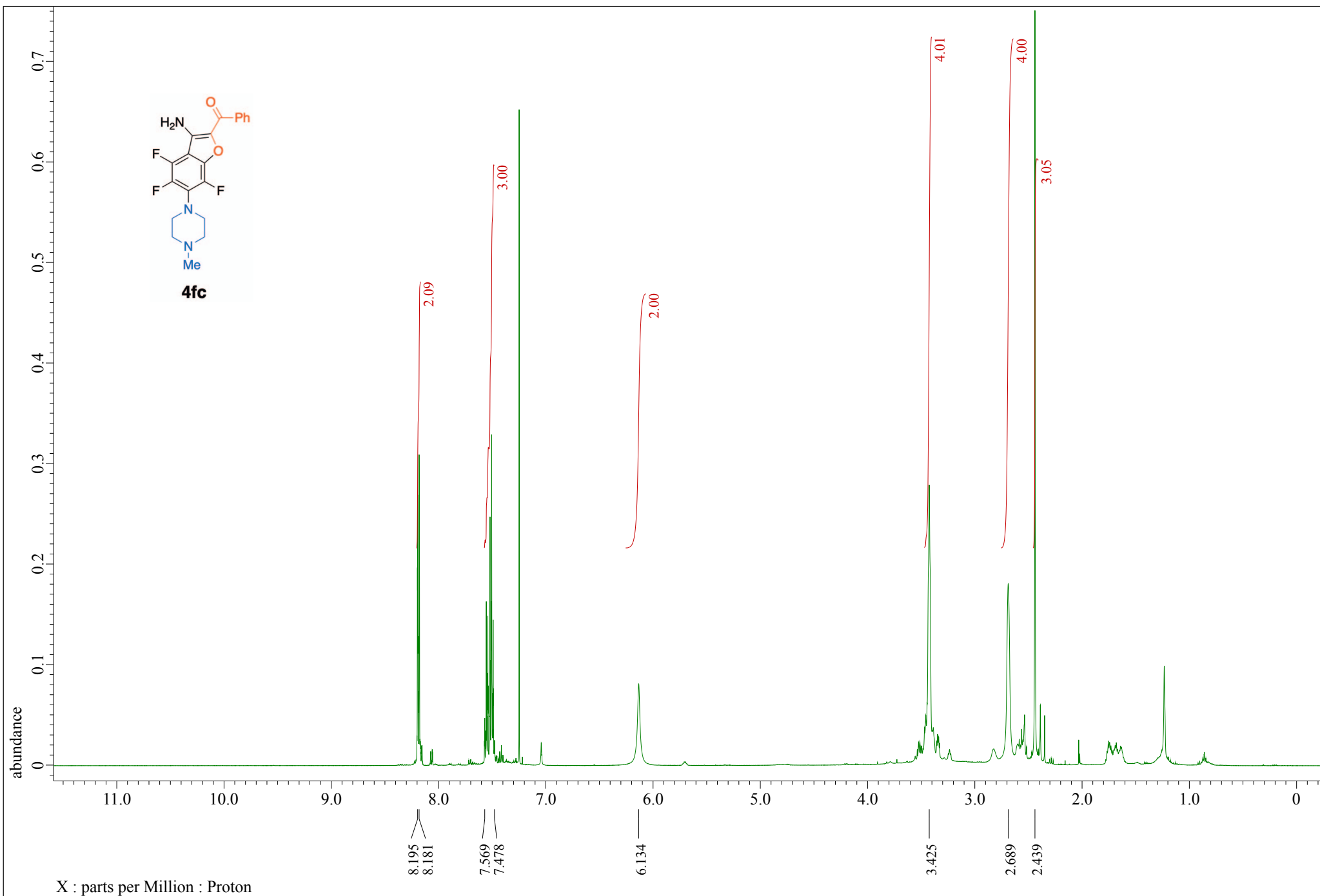
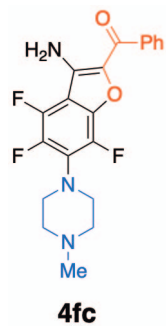


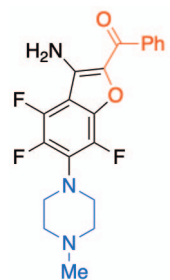




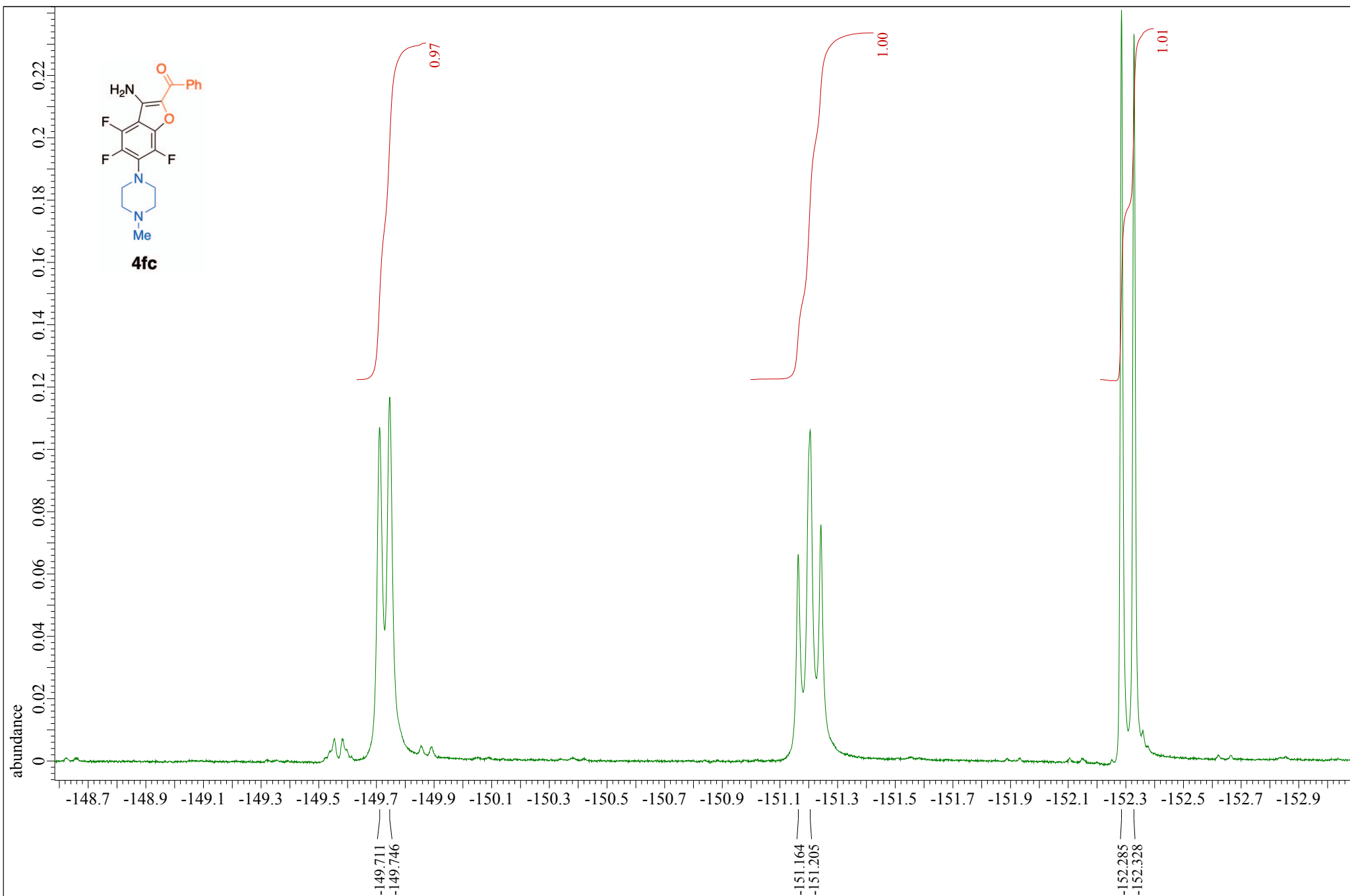




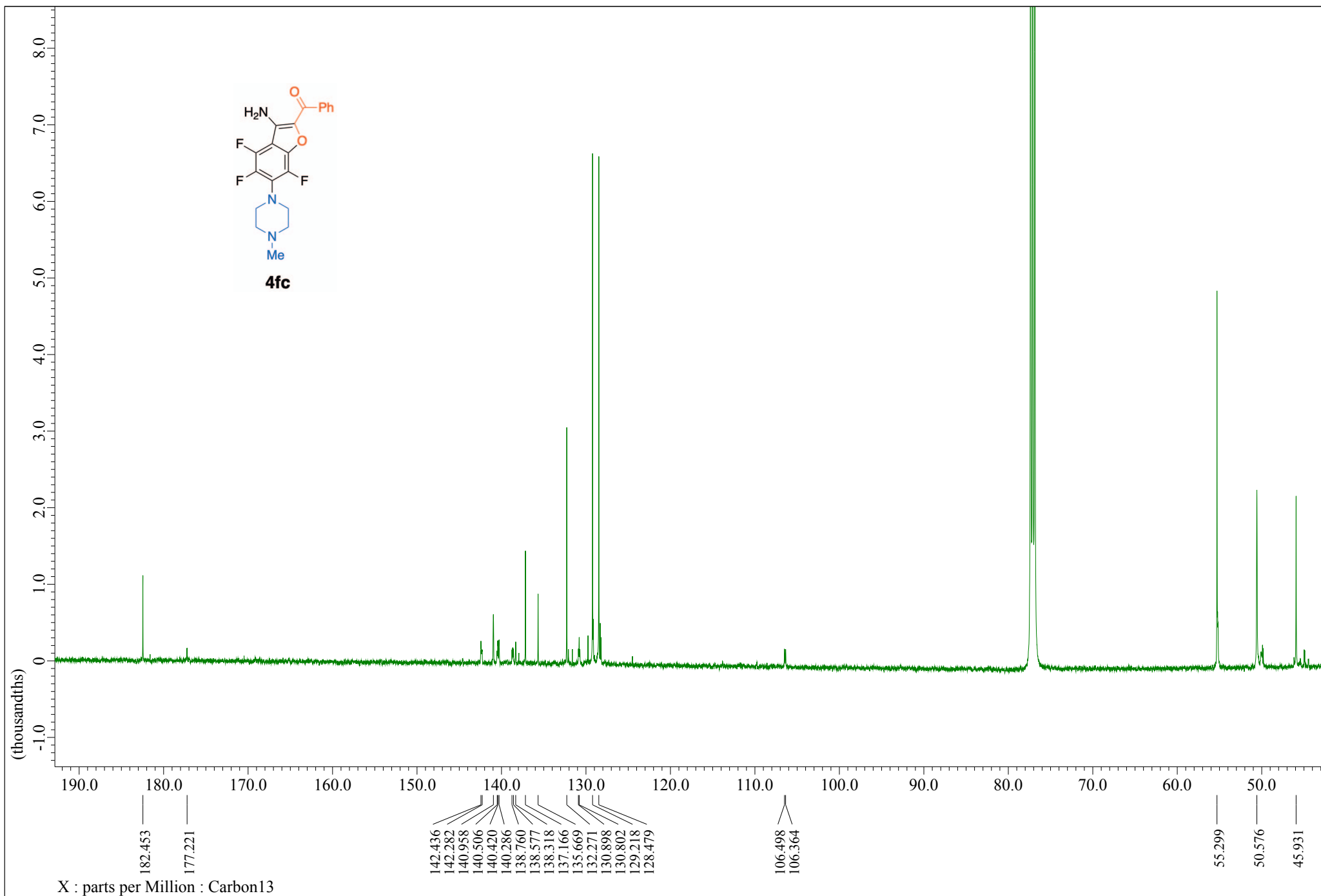


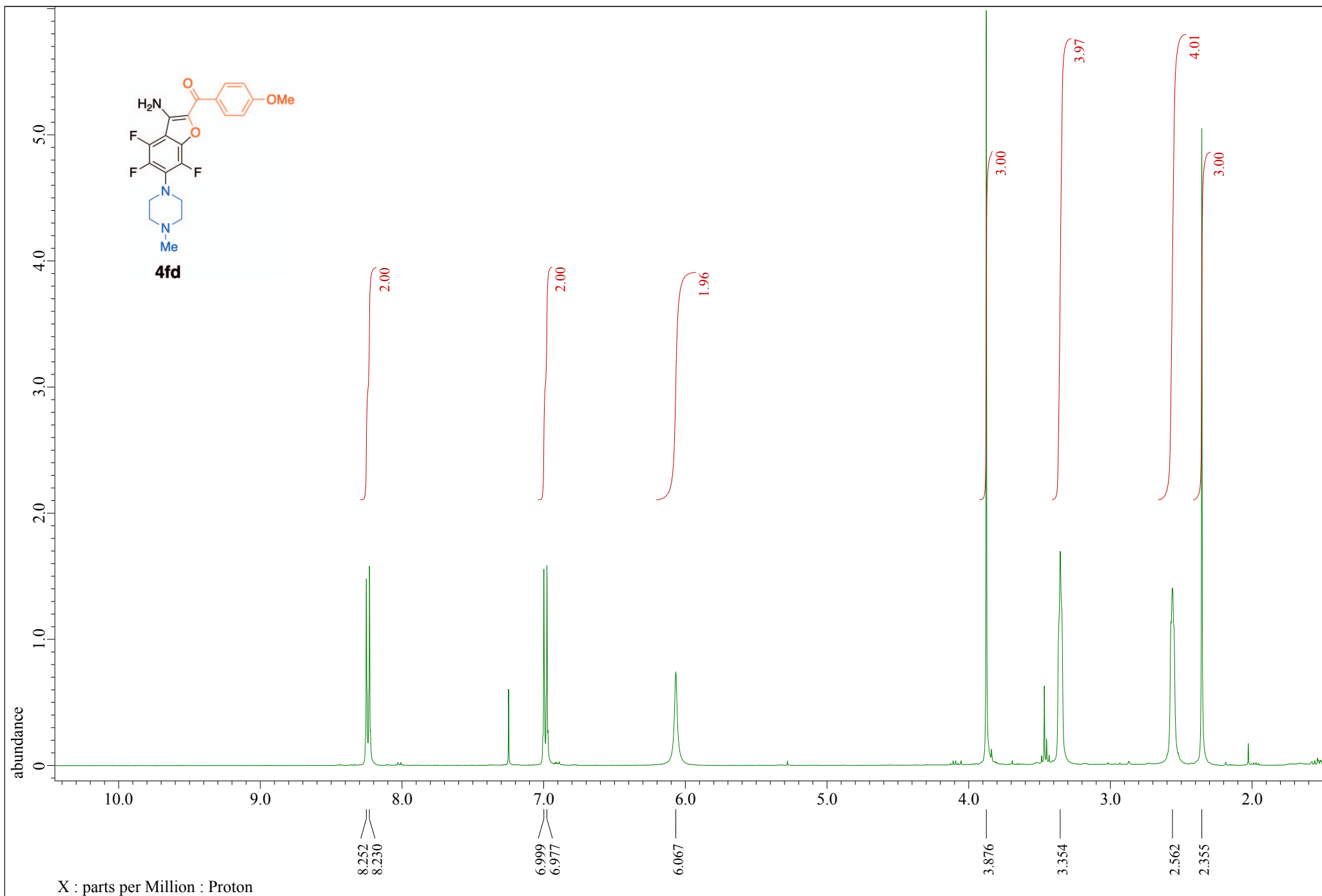


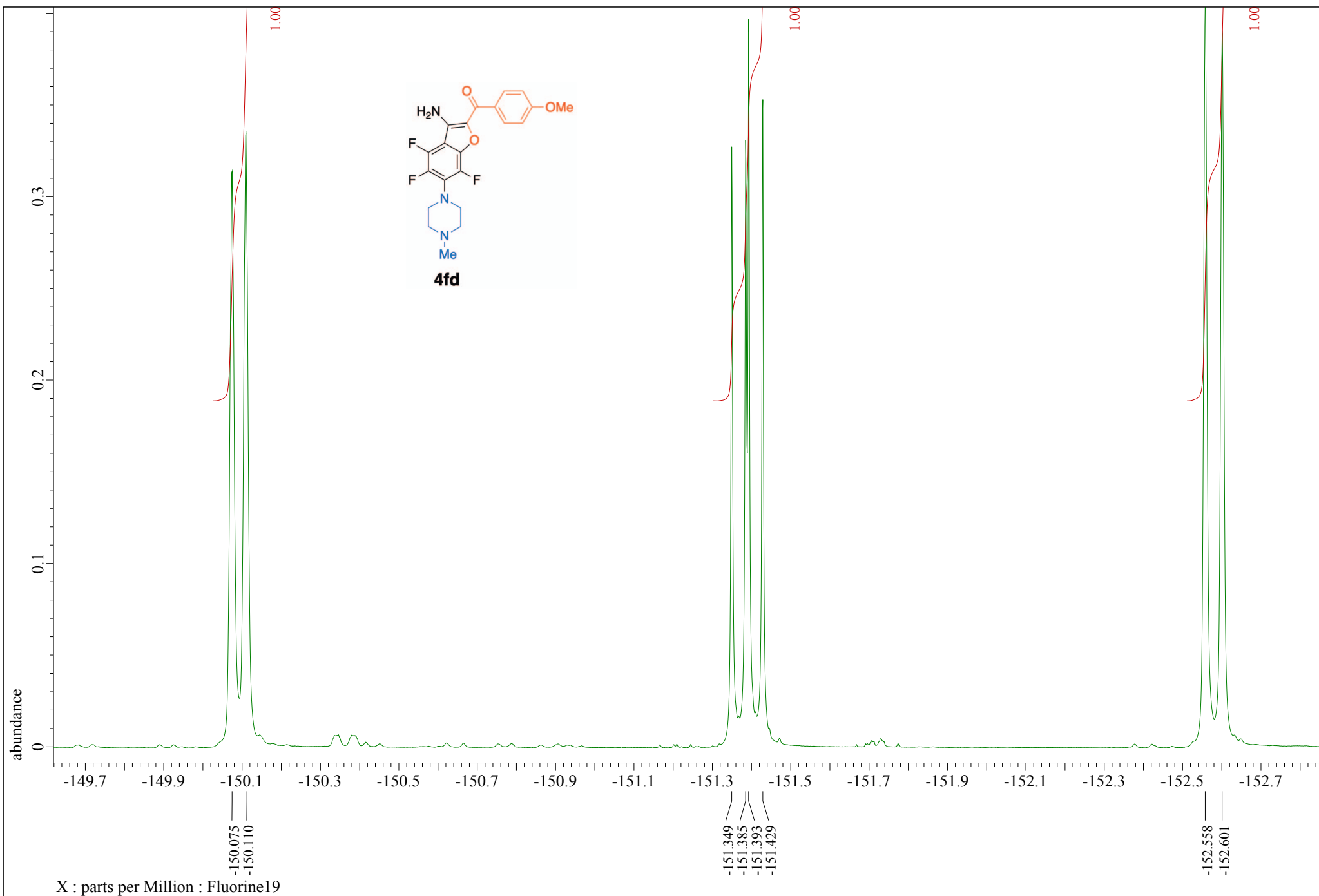
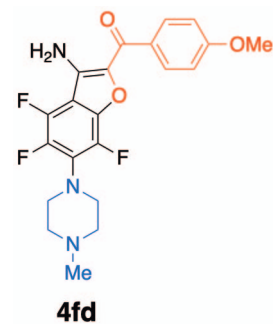
4fc

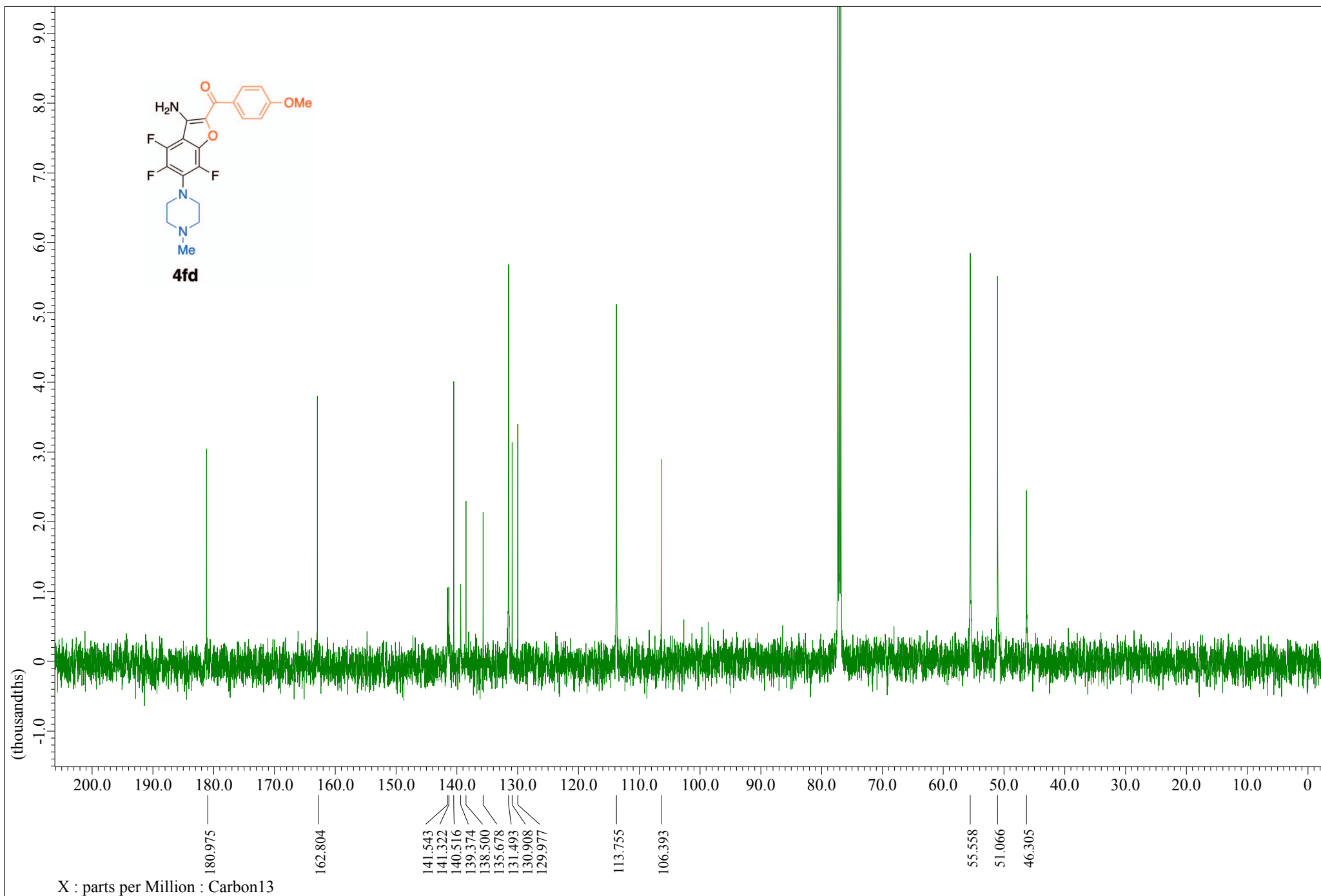


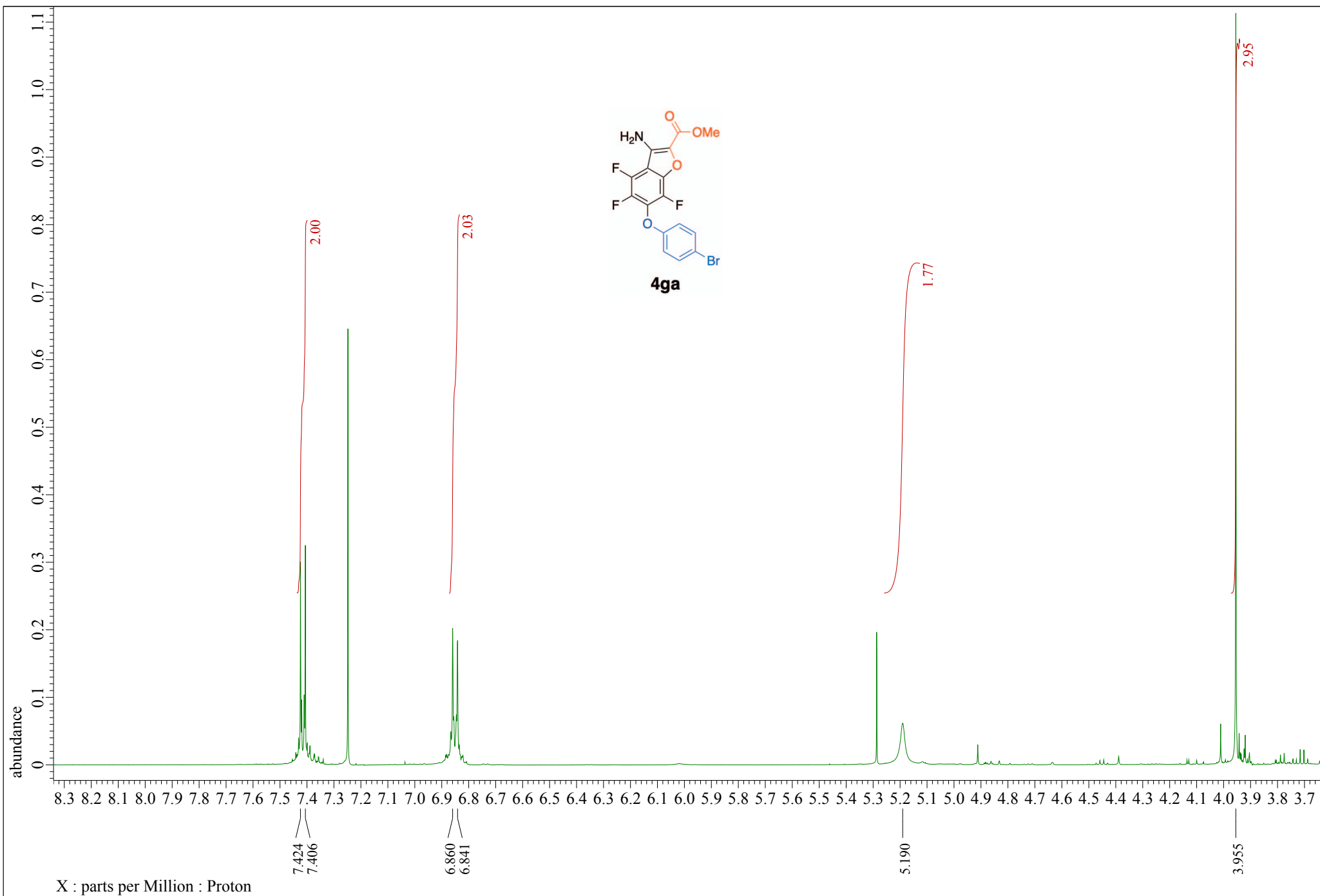
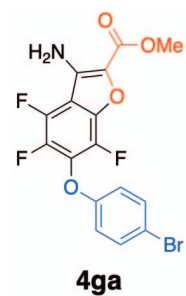
X : parts per Million : Fluorine19

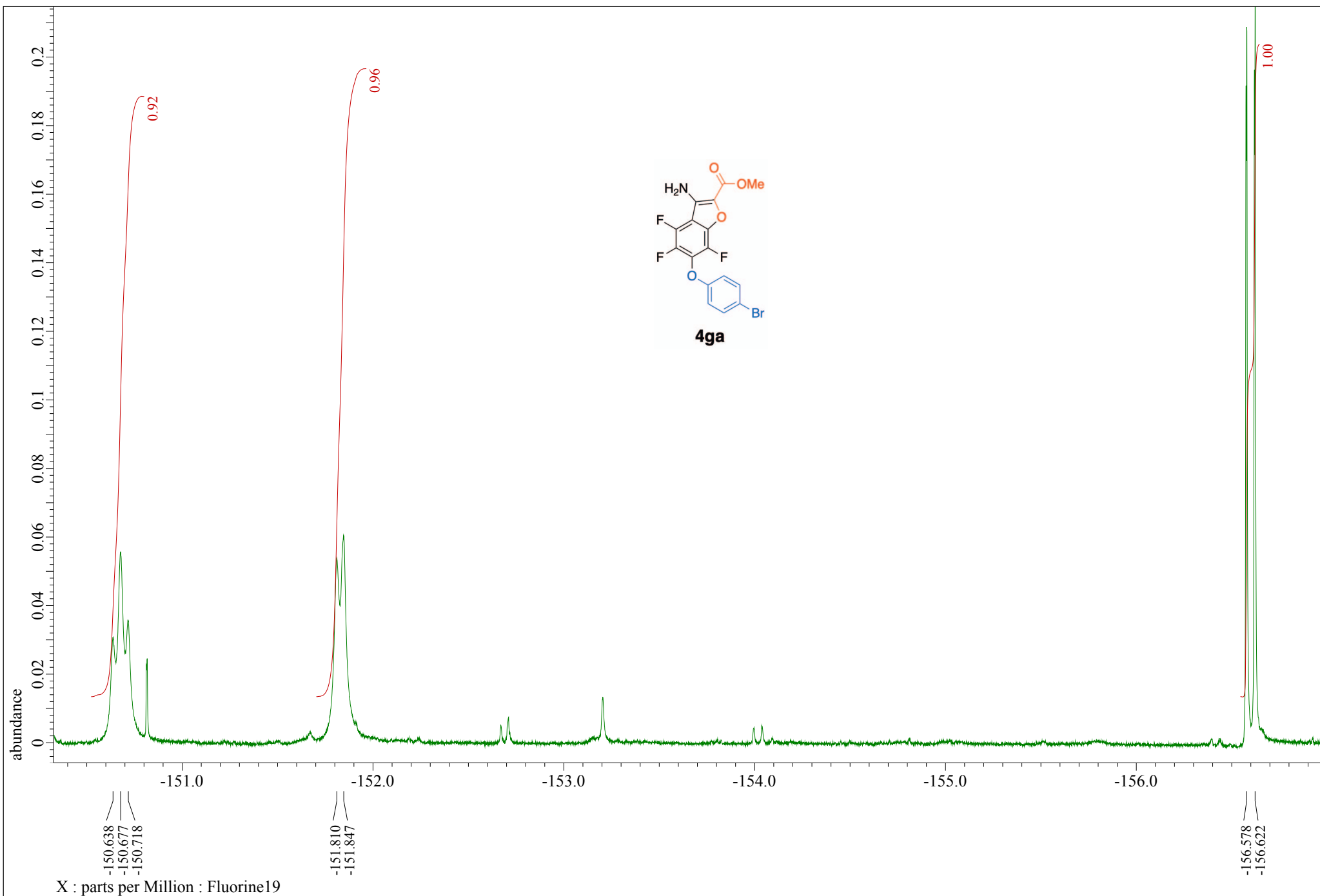
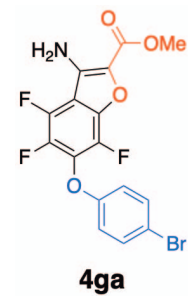


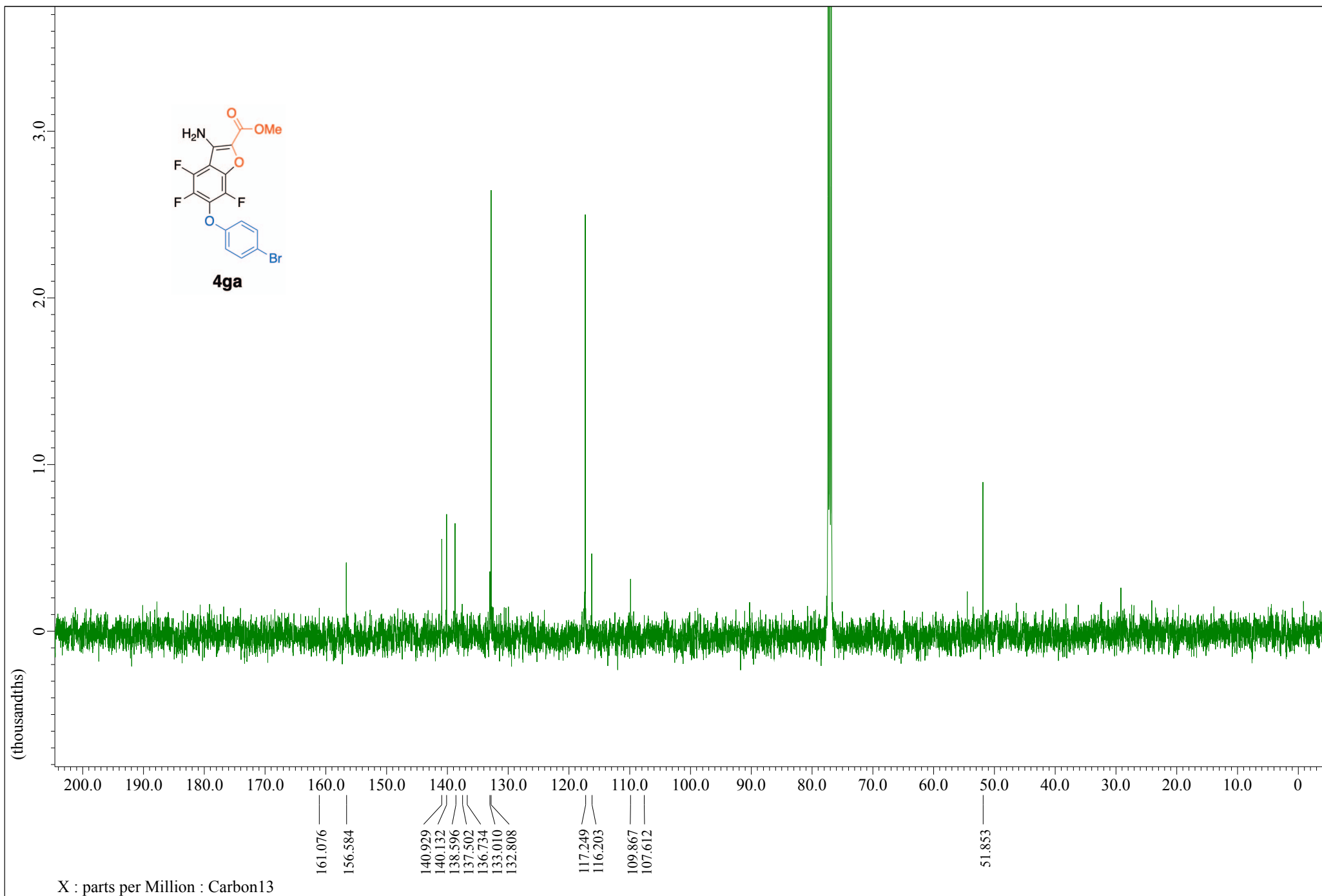
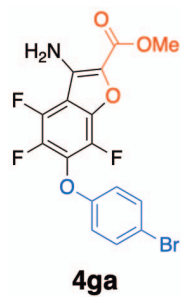


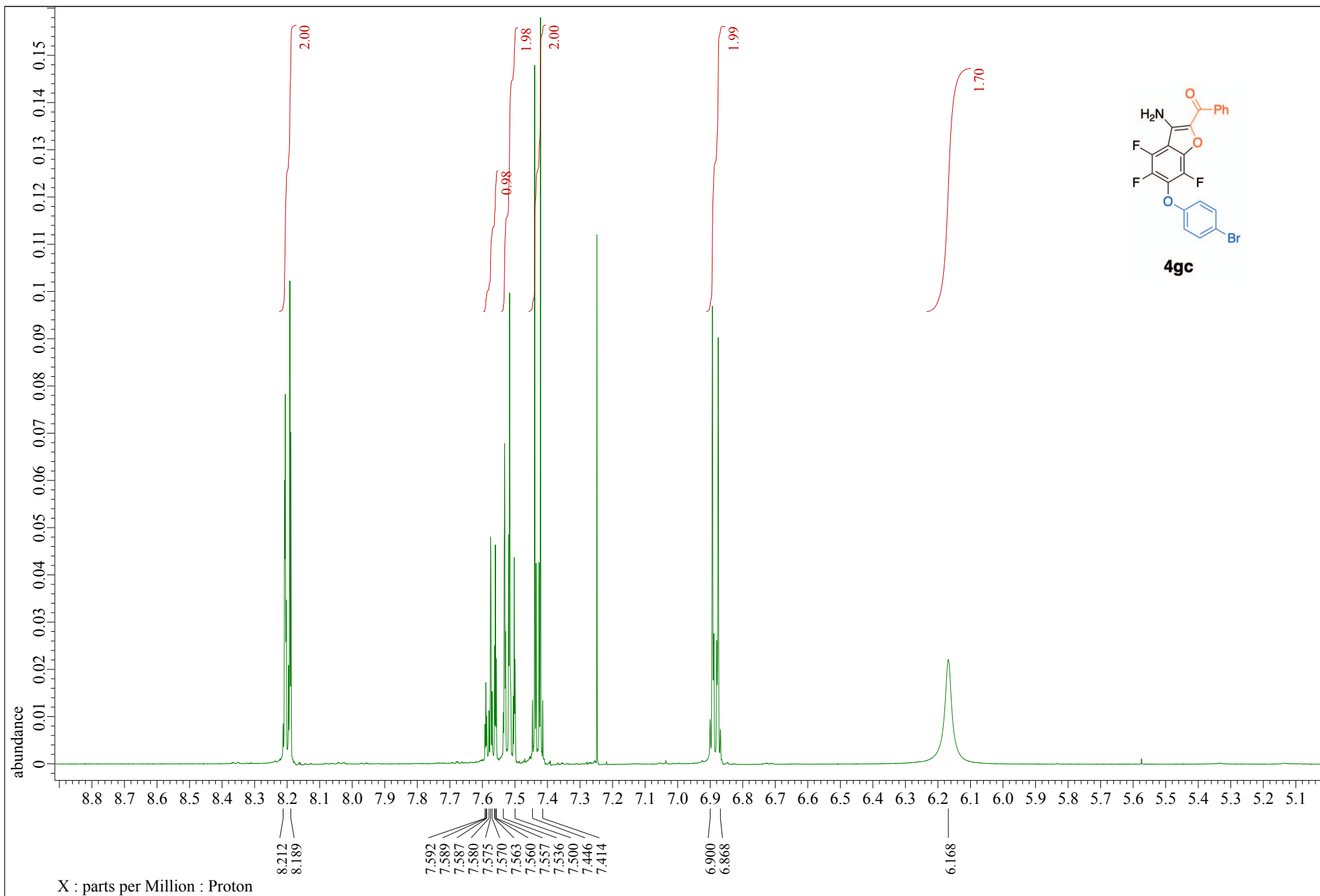


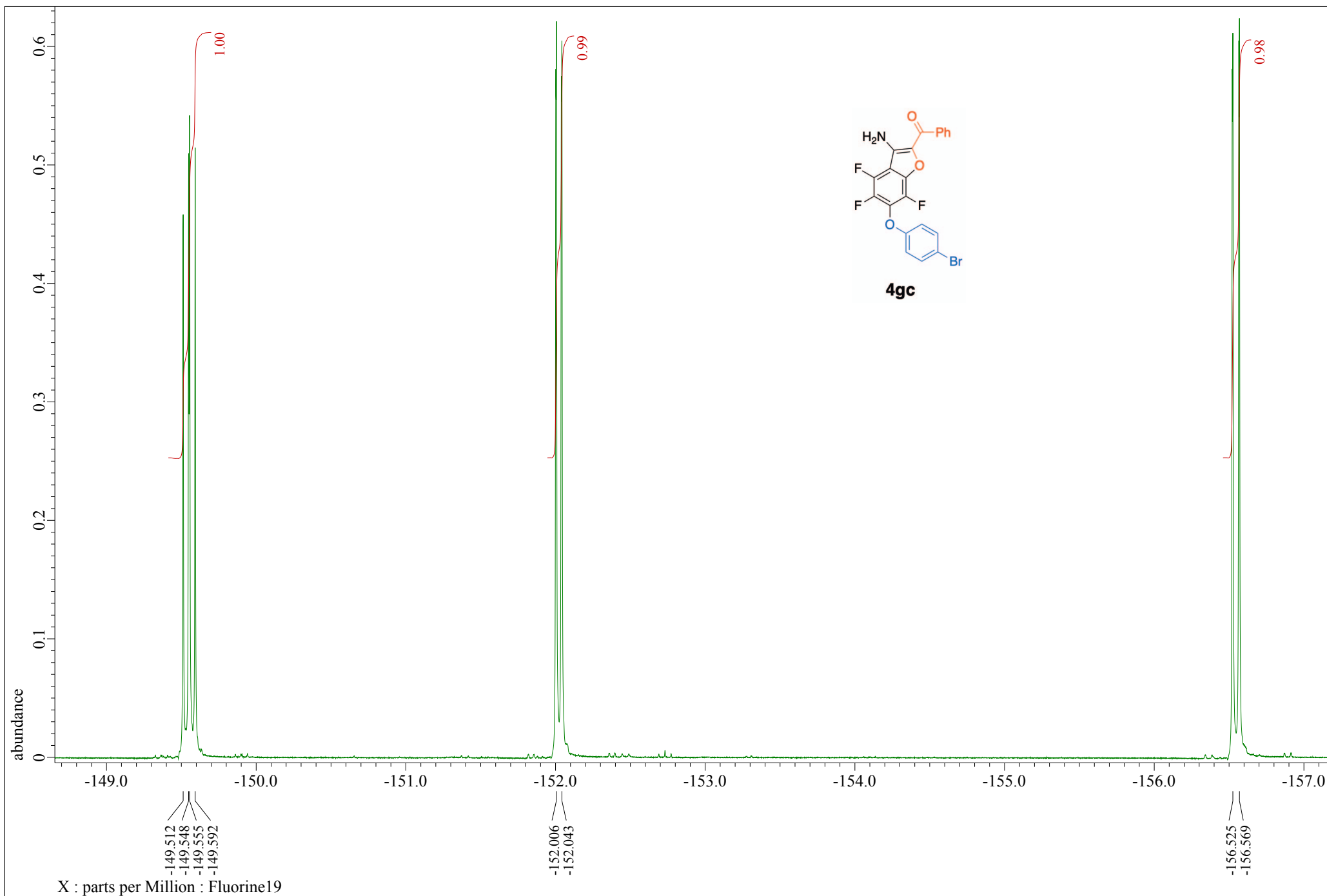


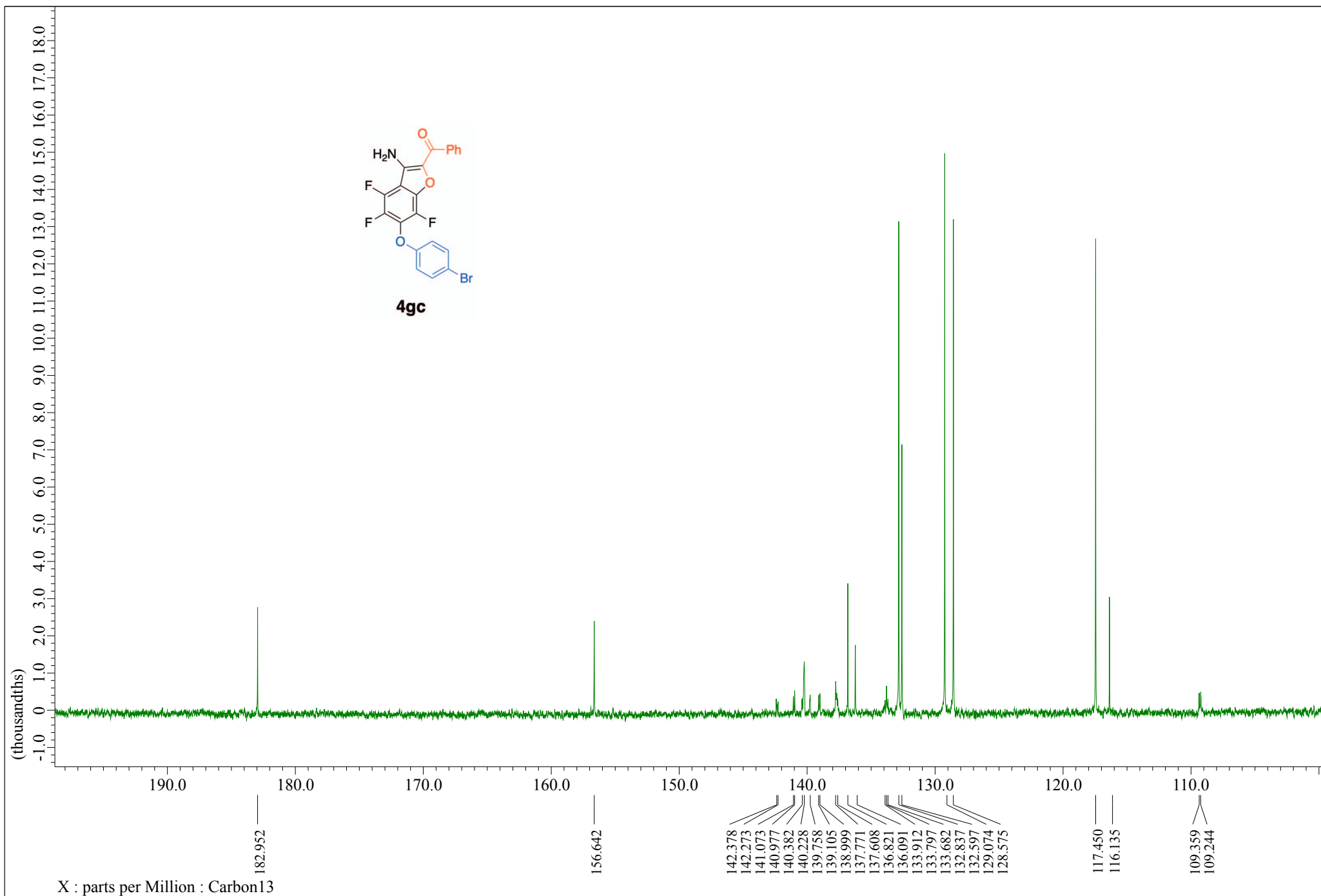


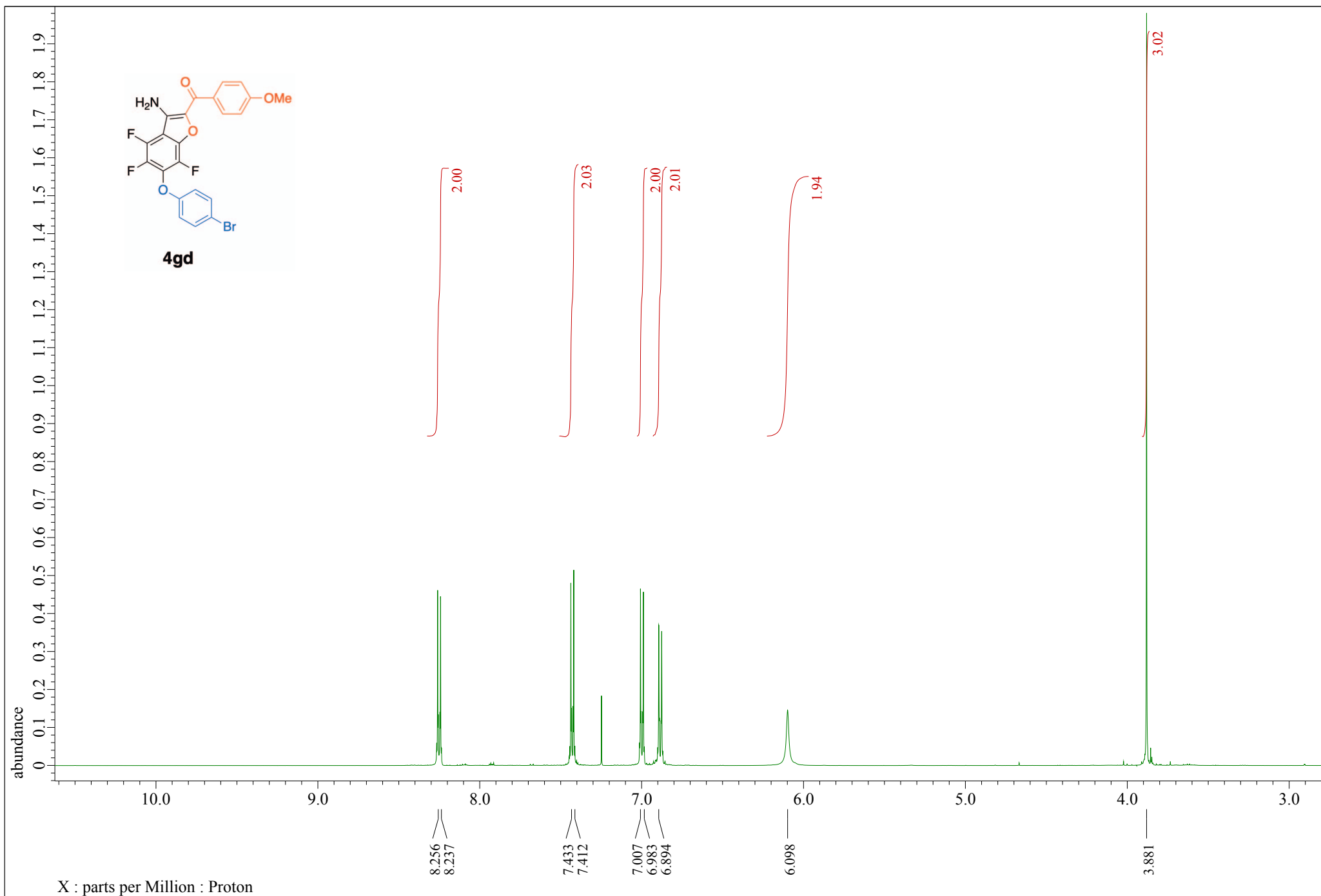


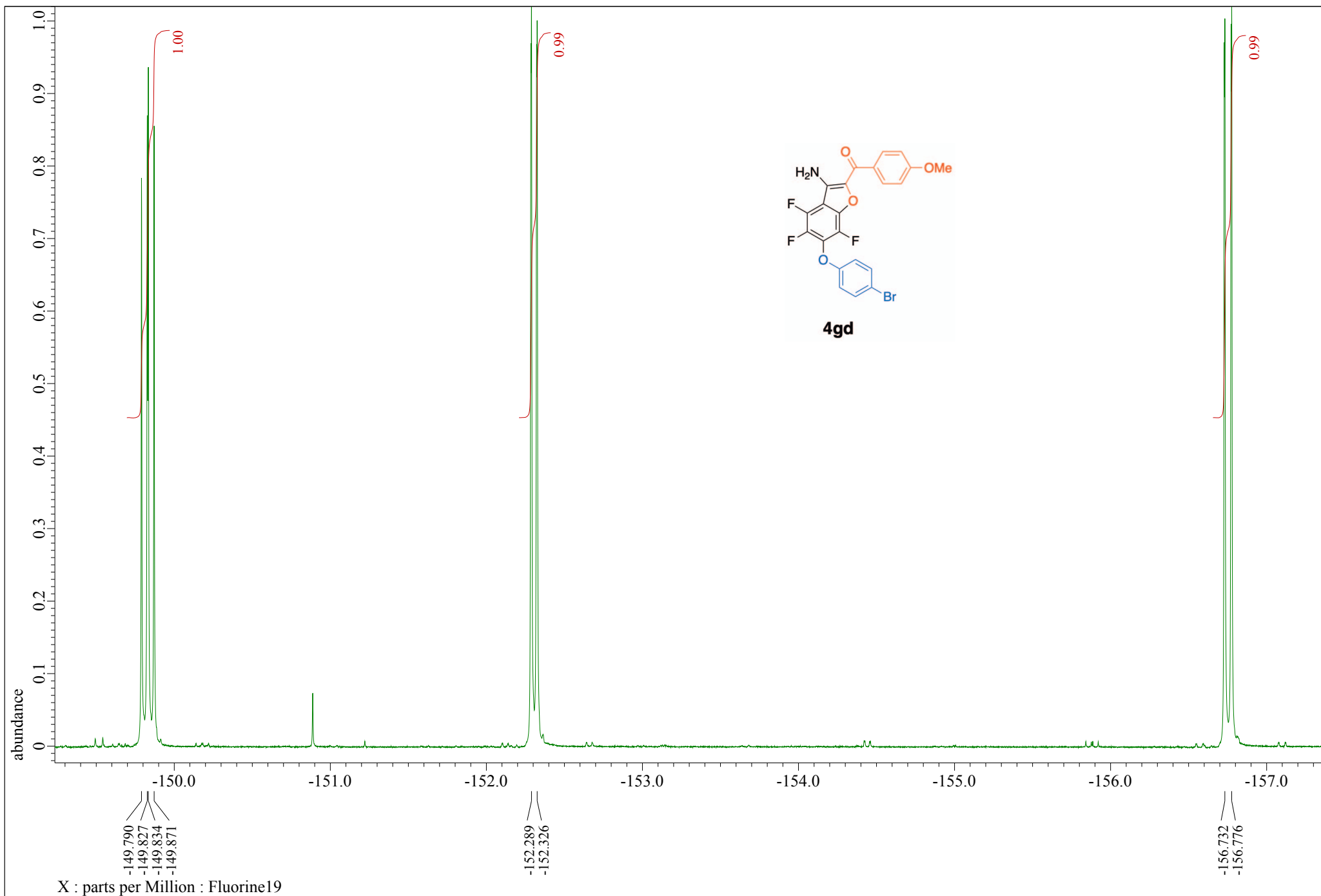


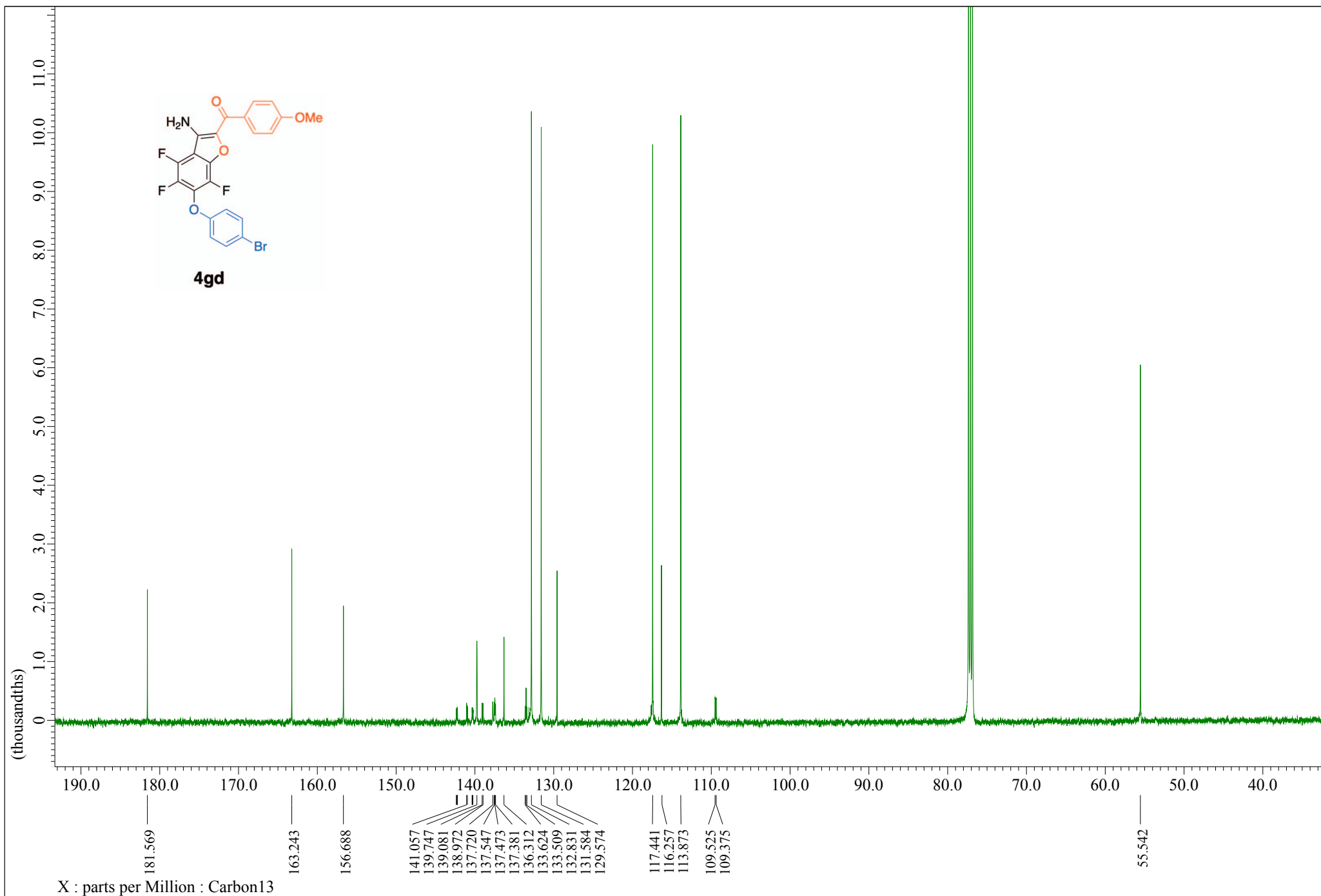


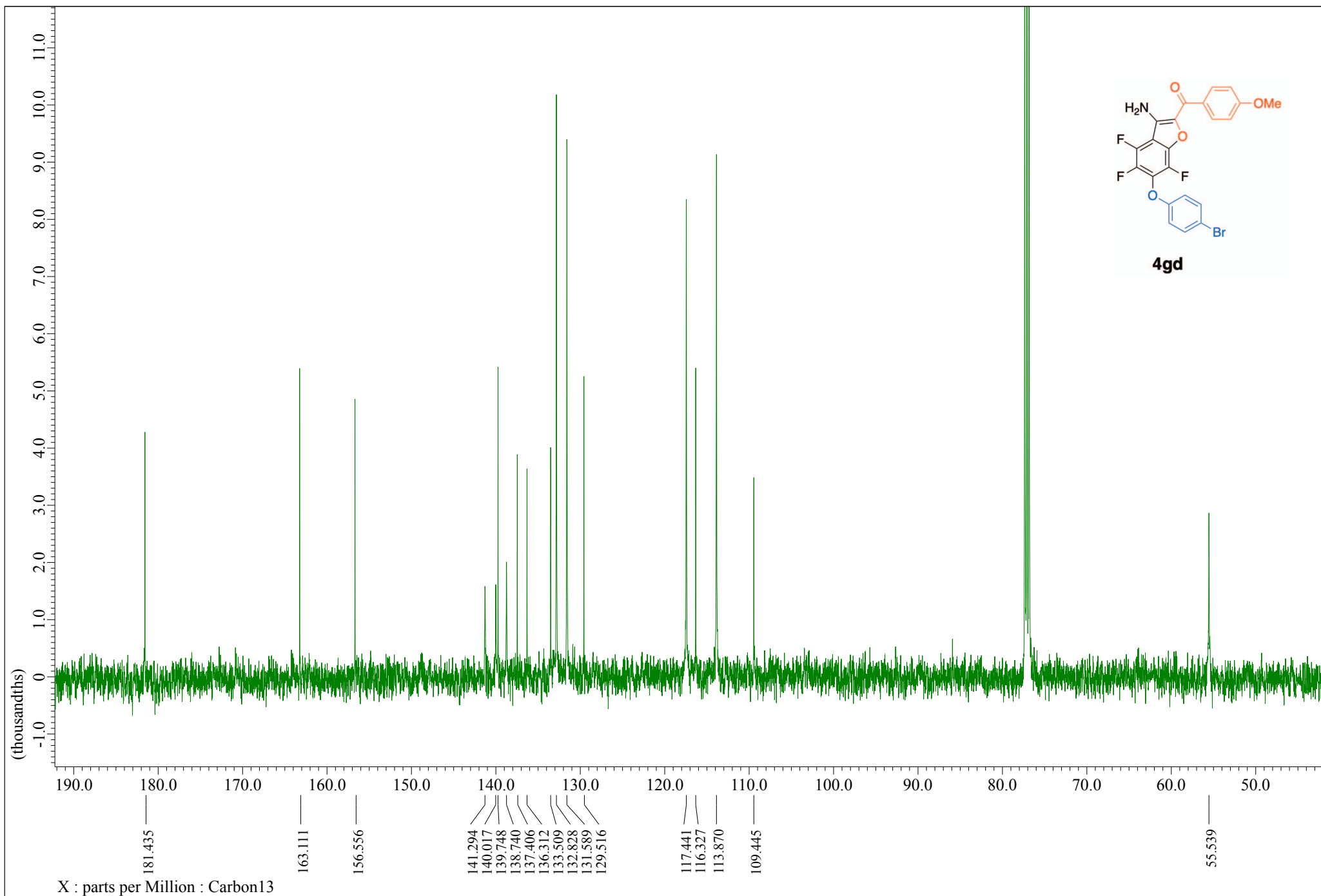


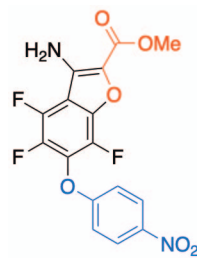




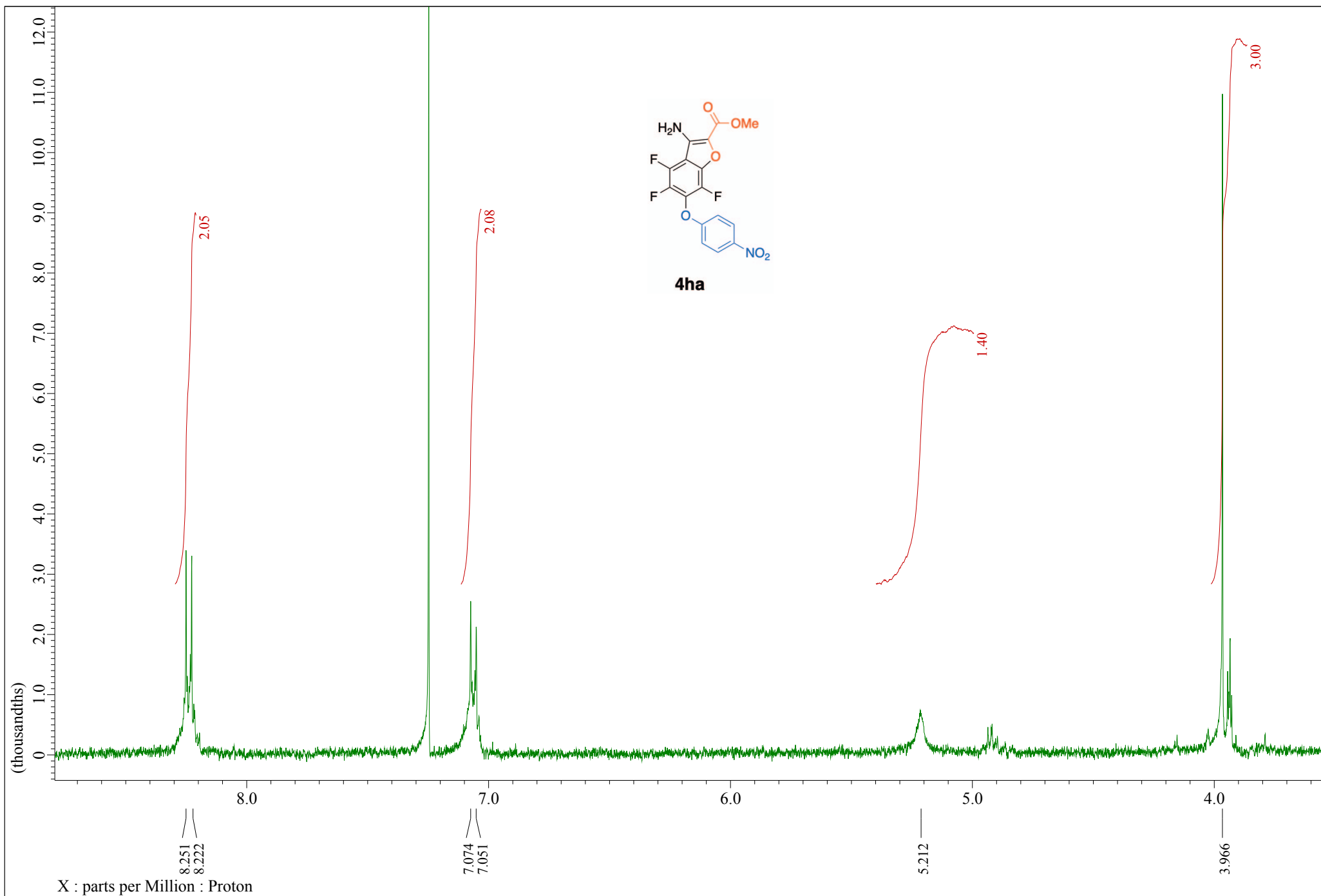




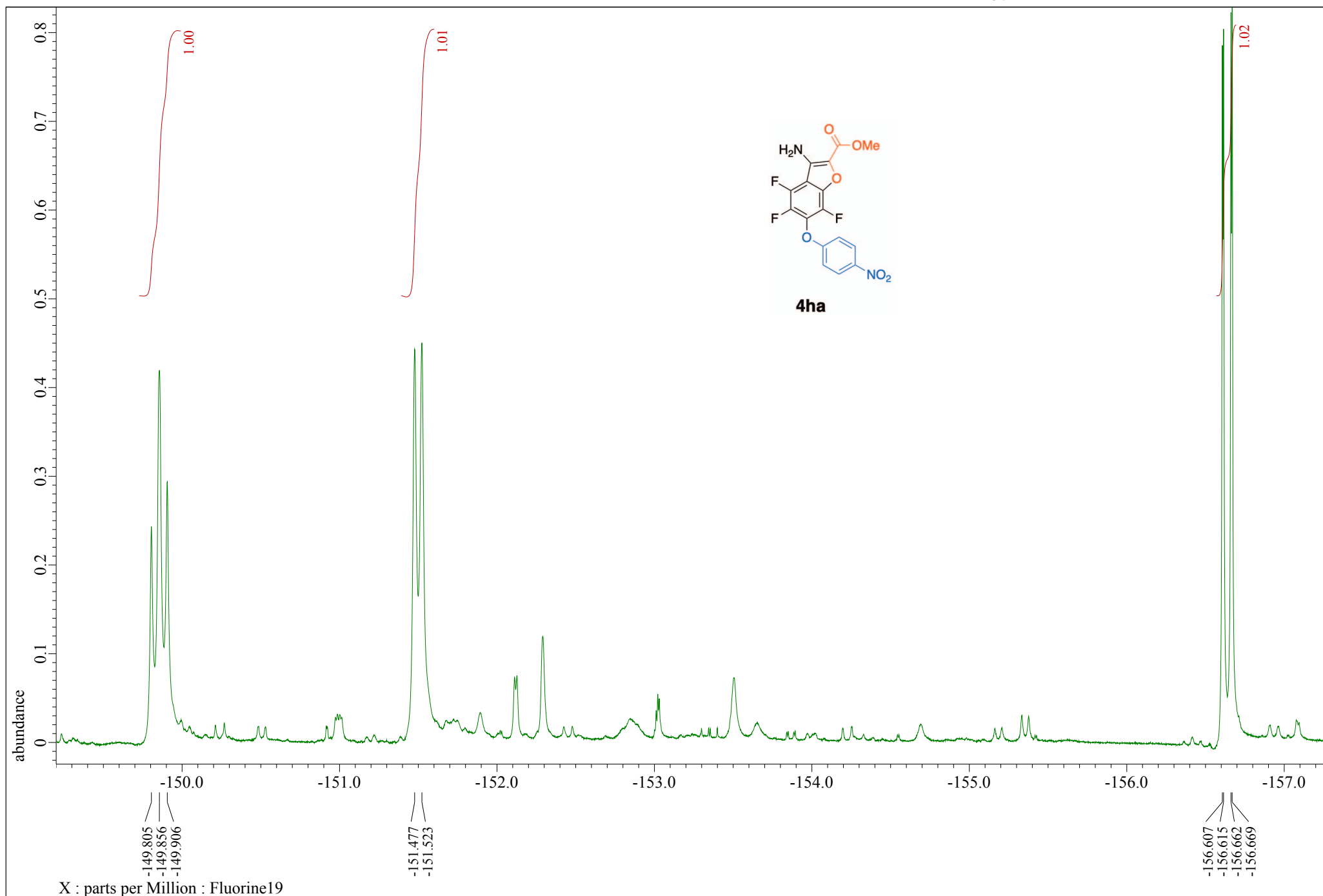


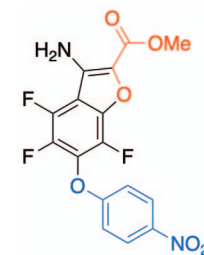
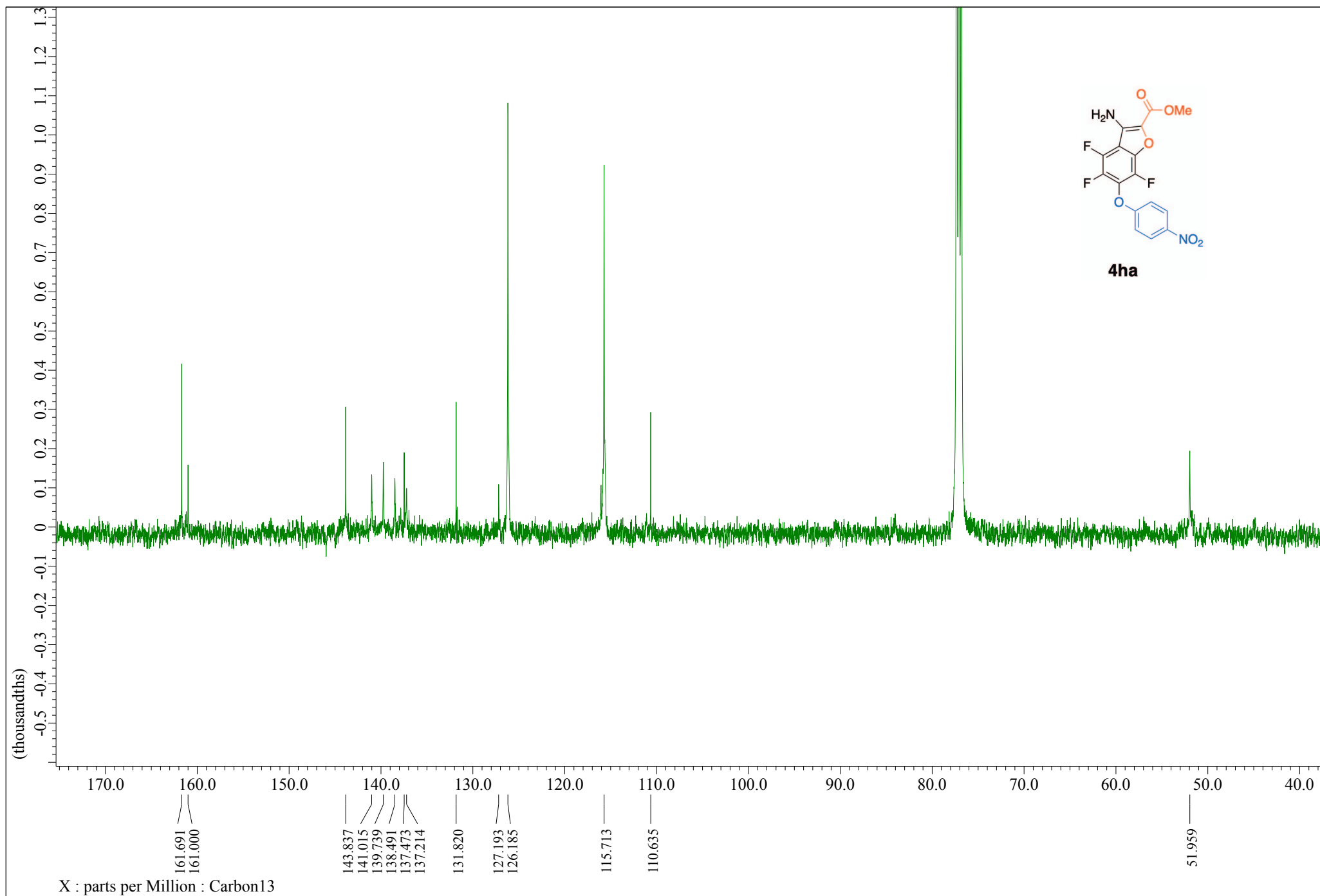


4ha

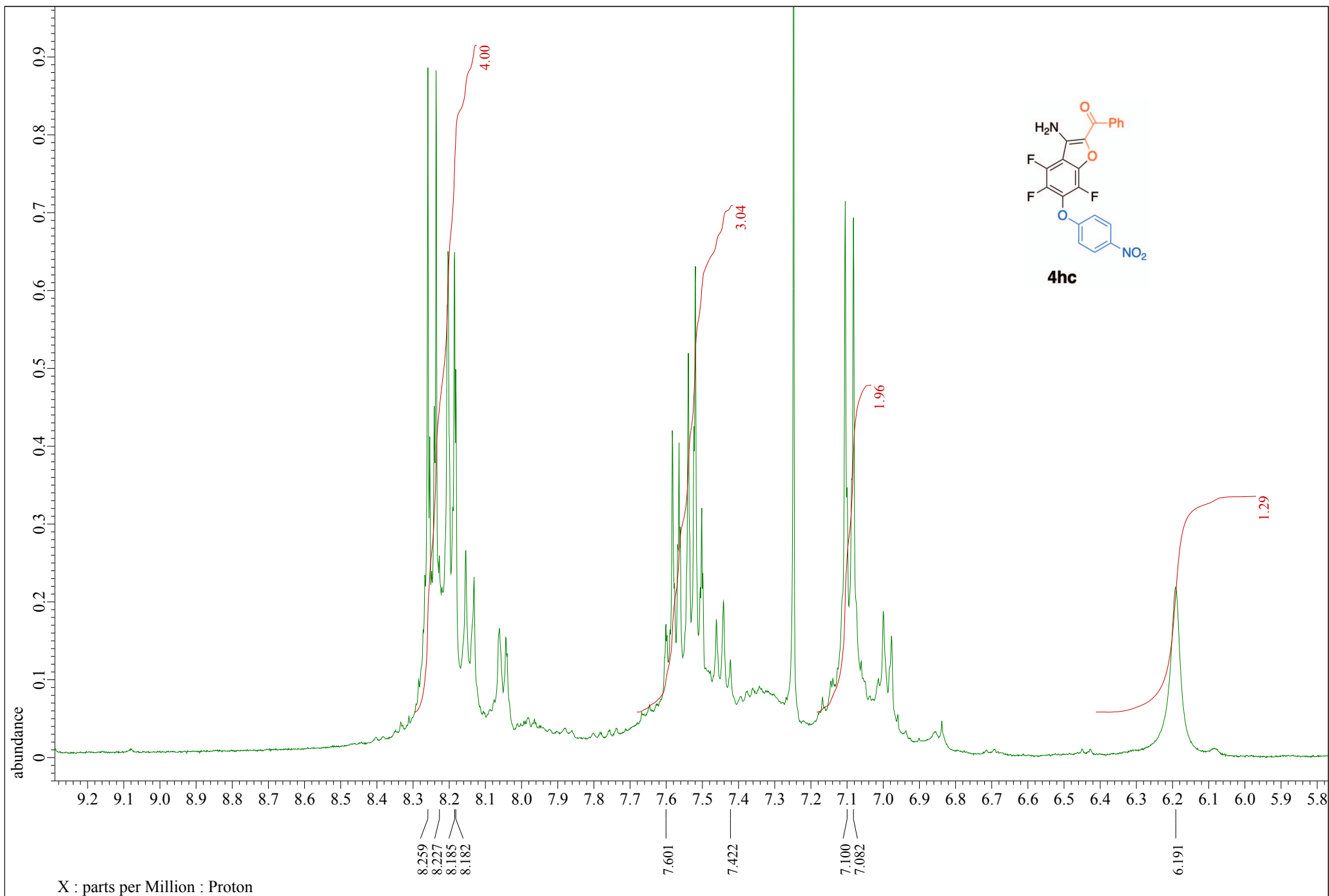


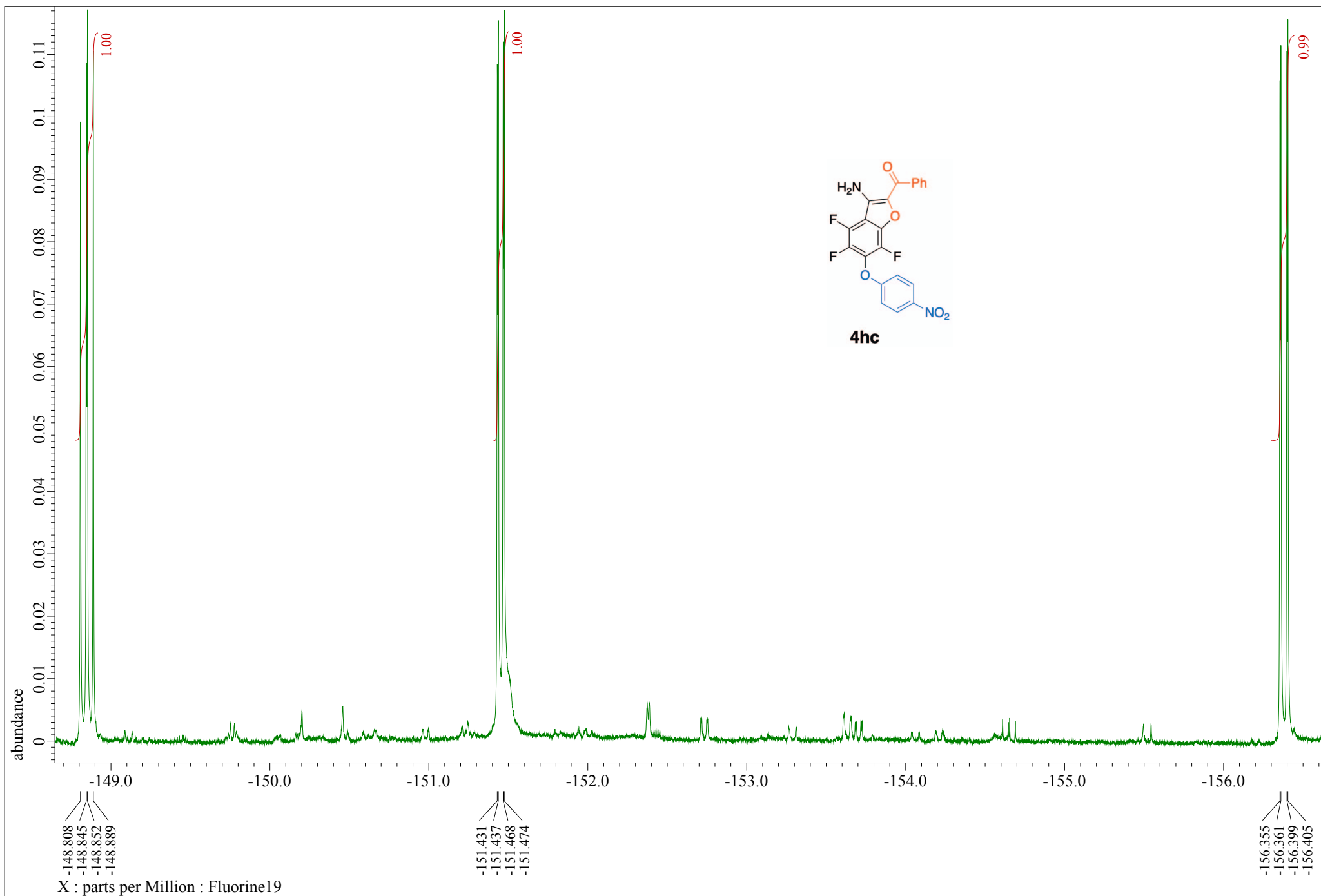
Type text here

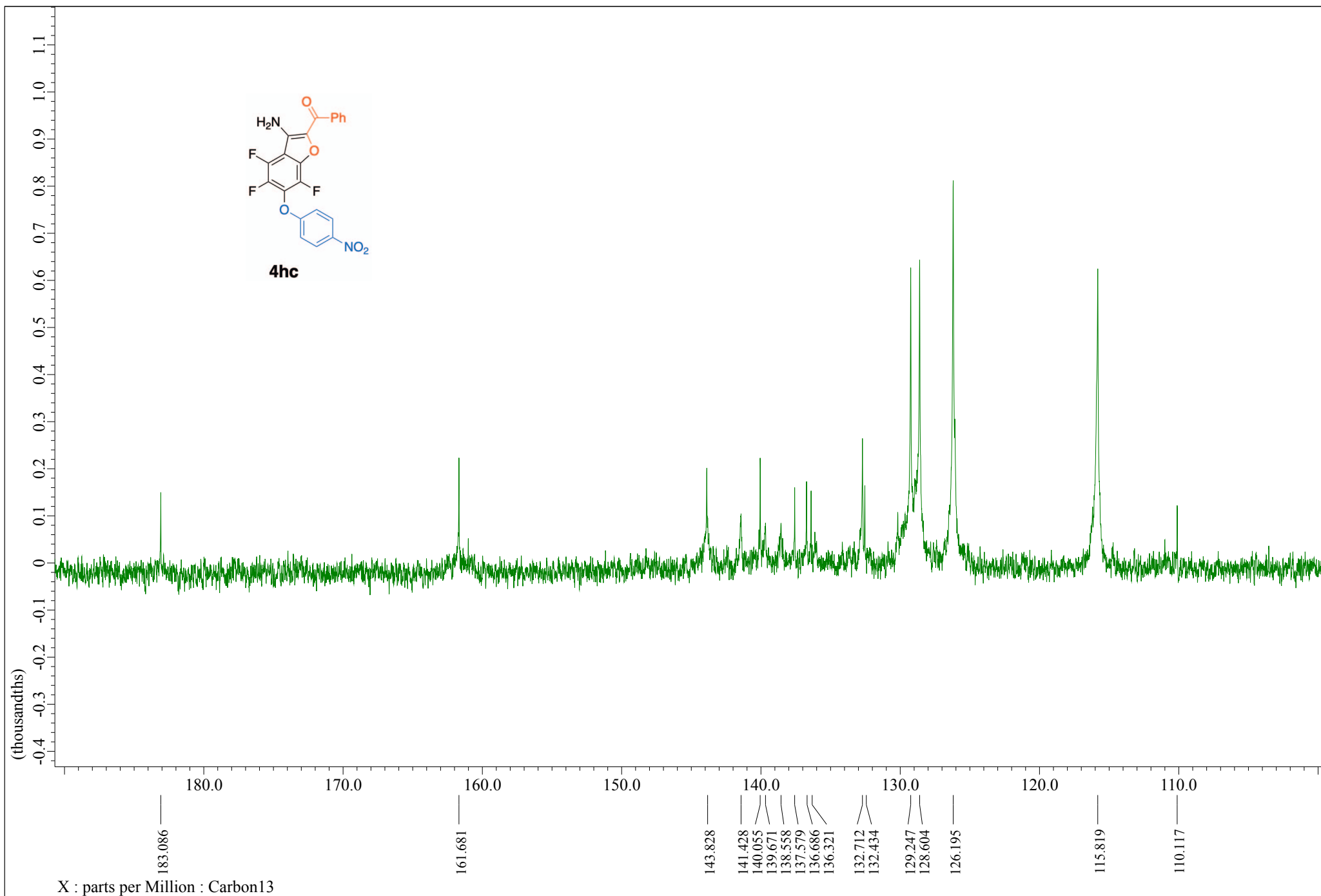


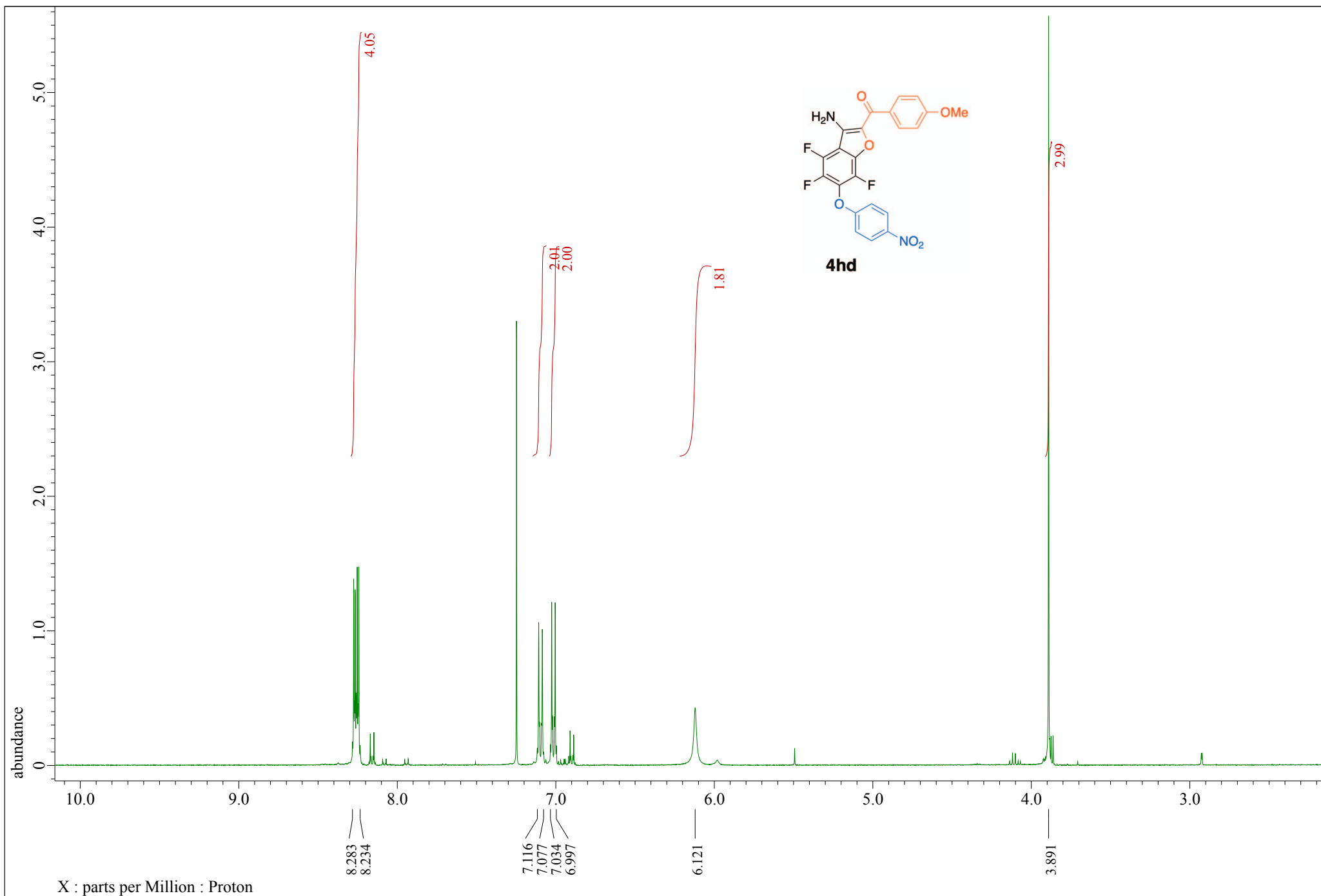


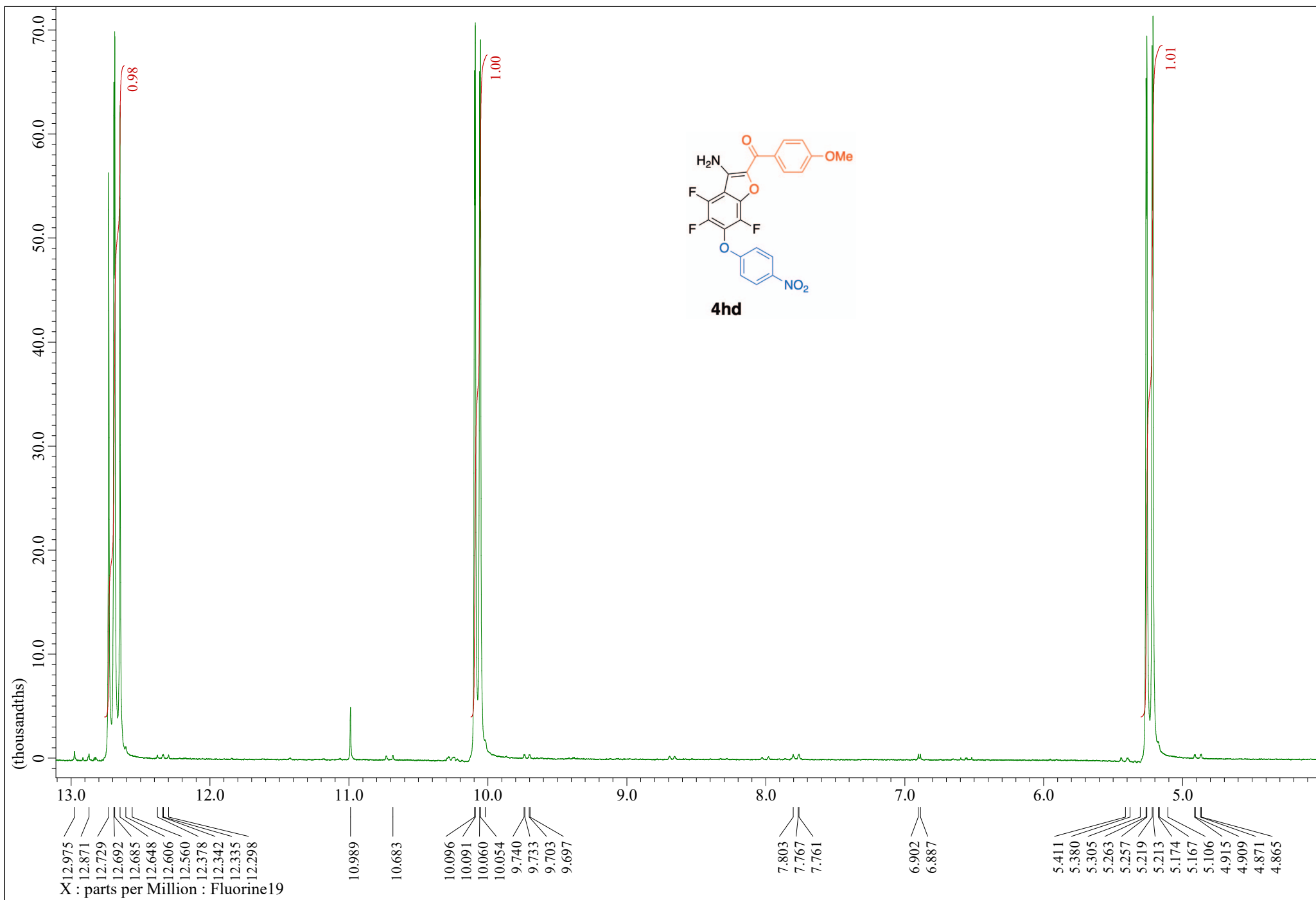
4ha











Type text here

