

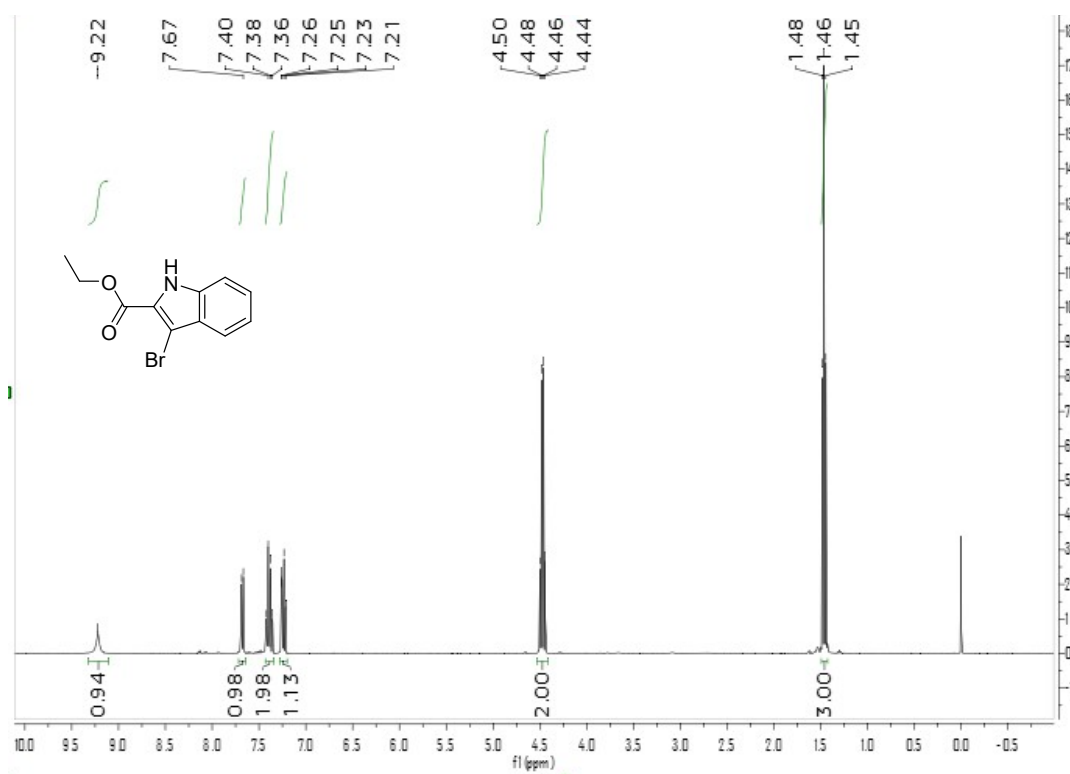
Design, synthesis and biological evaluation of indole-2-carboxylic acid derivatives as novel HIV-1 integrase strand transfer inhibitors

Rong-Hong Zhang, Guo-Qi Chen, Weilin Wang, Yu-Chan Wang, Wen-Li Zhang, Ting Chen, Qian-Qian Xiong, Yong-Long Zhao, Shang-Gao Liao, Yong-Jun Li, Guo-Yi Yan and Meng Zhou

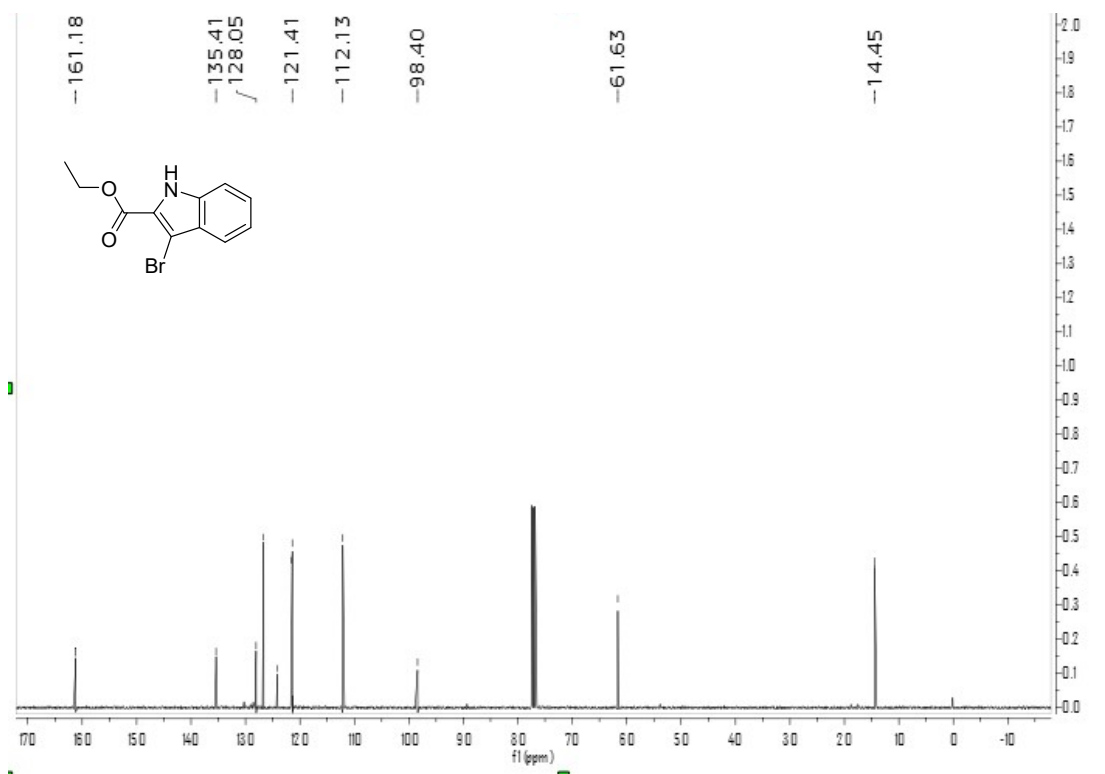
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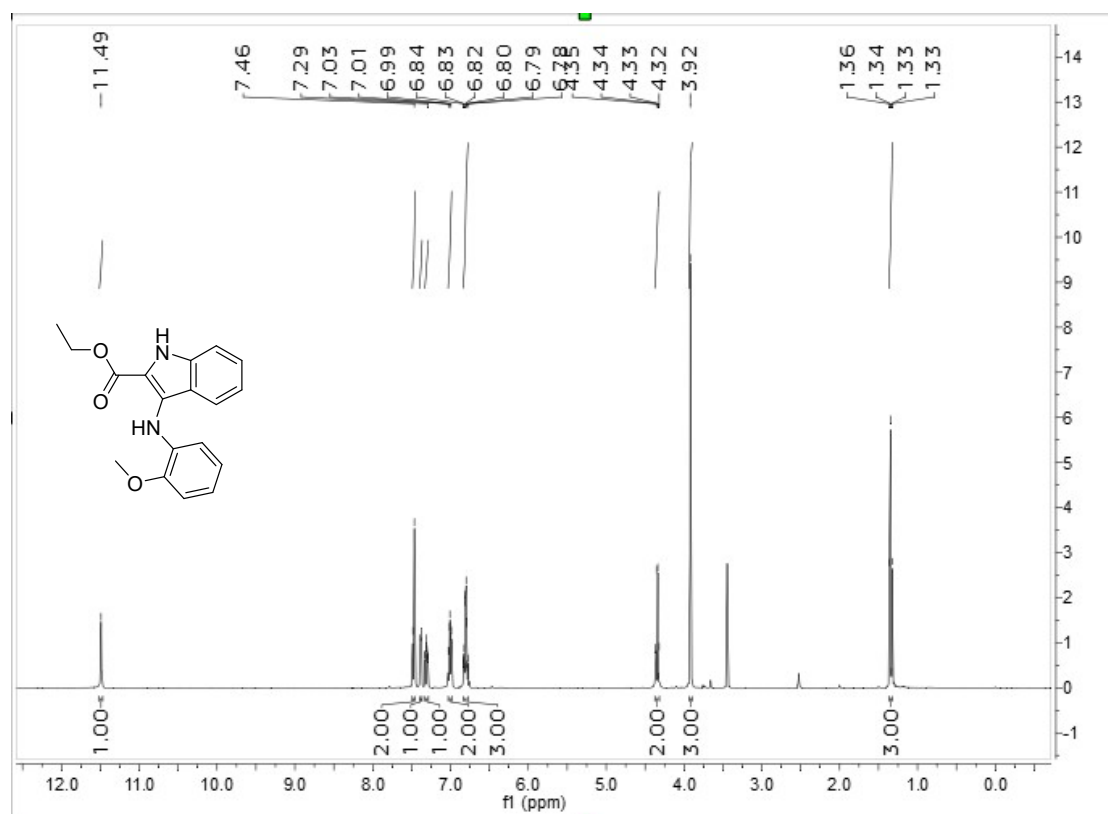
Spectral copies of ^1H NMR and ^{13}C NMR of compounds



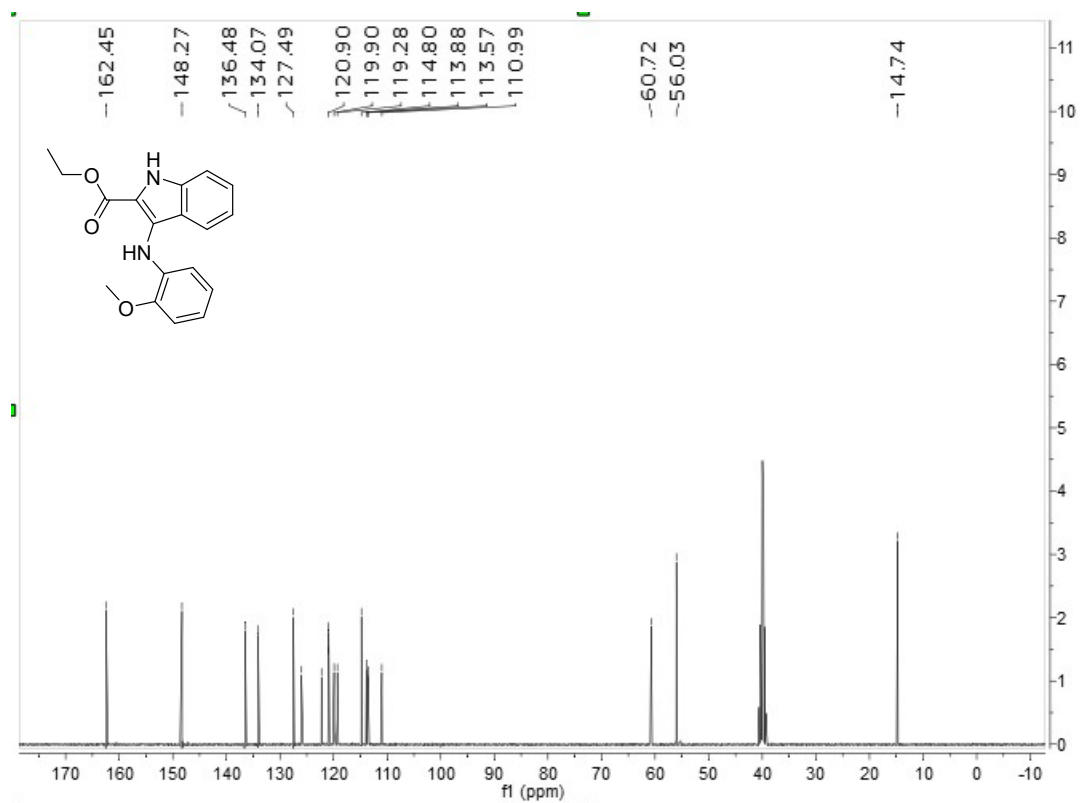
^1H NMR spectrum of **3**



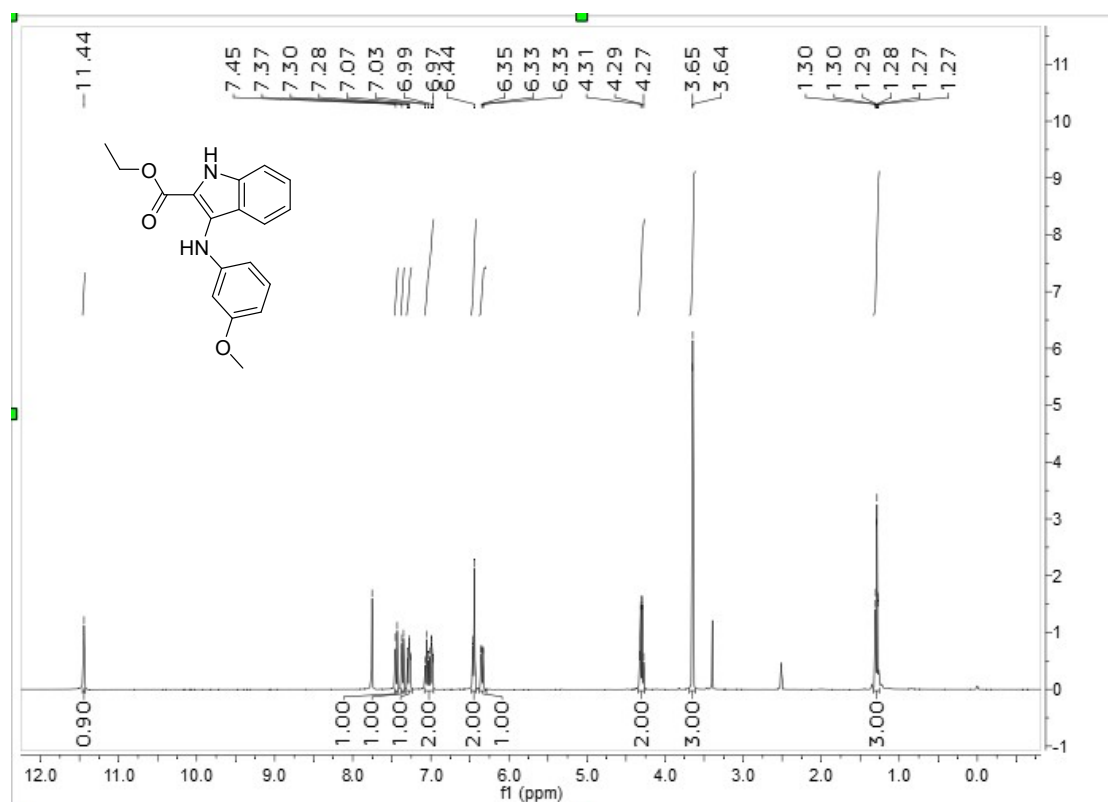
^{13}C NMR spectrum of **3**



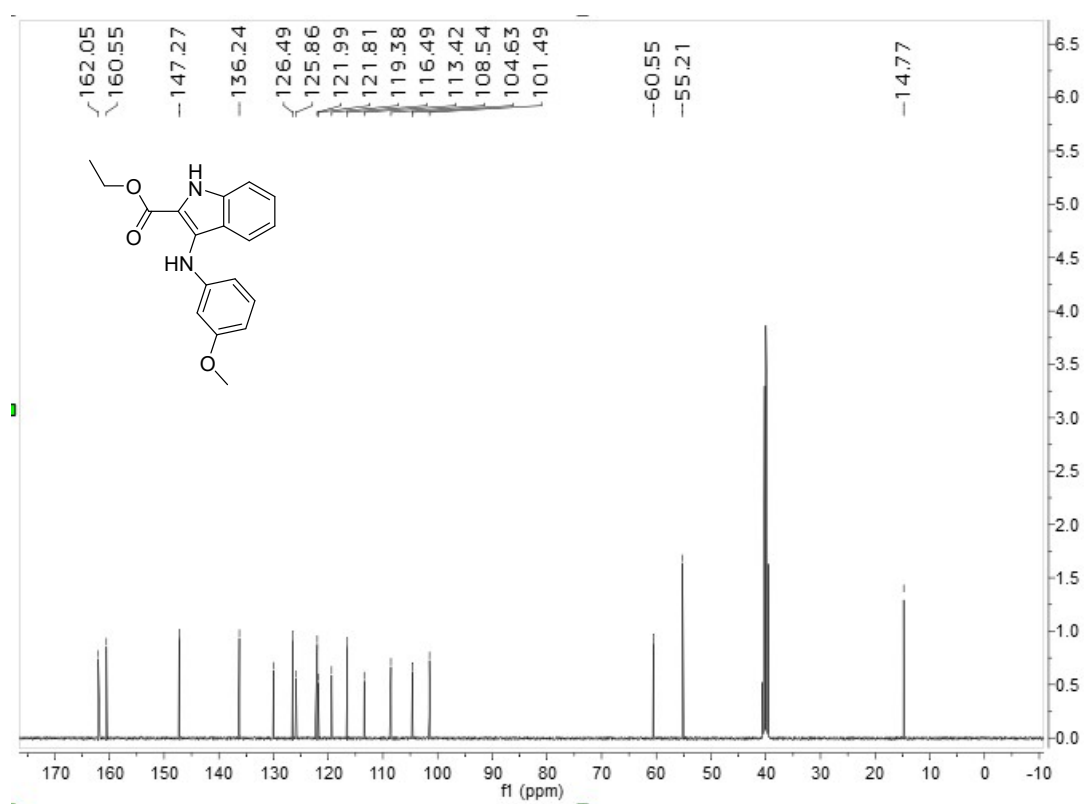
¹H NMR spectrum of **4a**



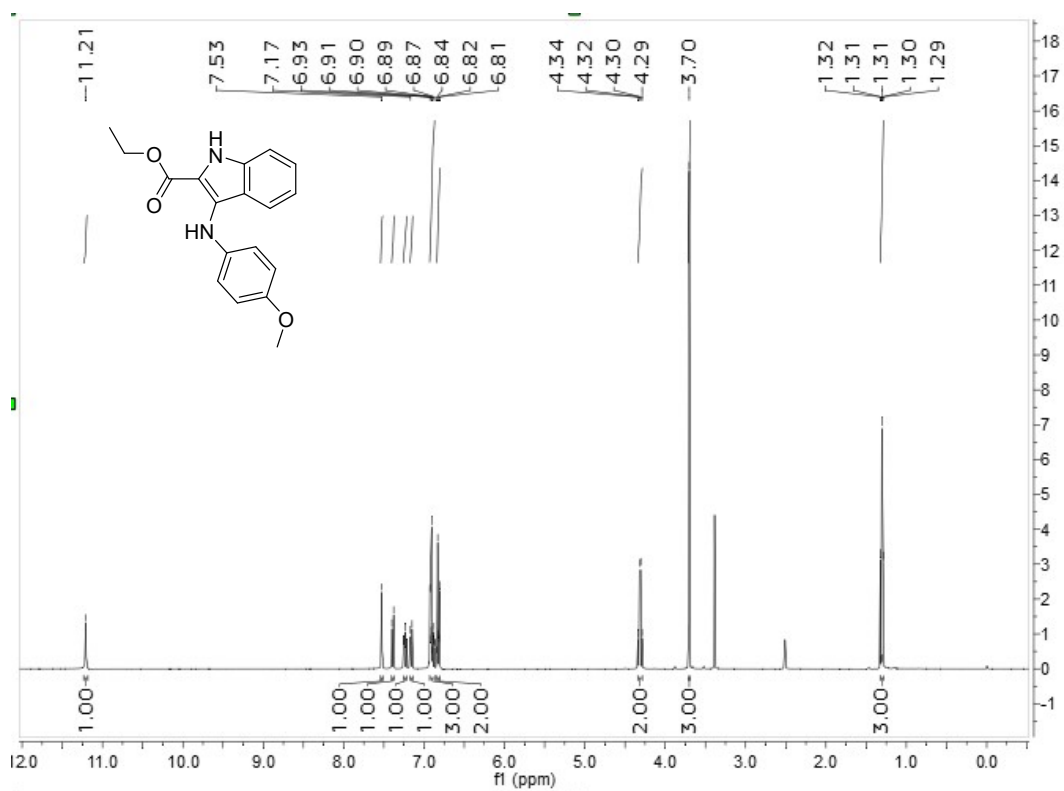
¹³C NMR spectrum of **4a**



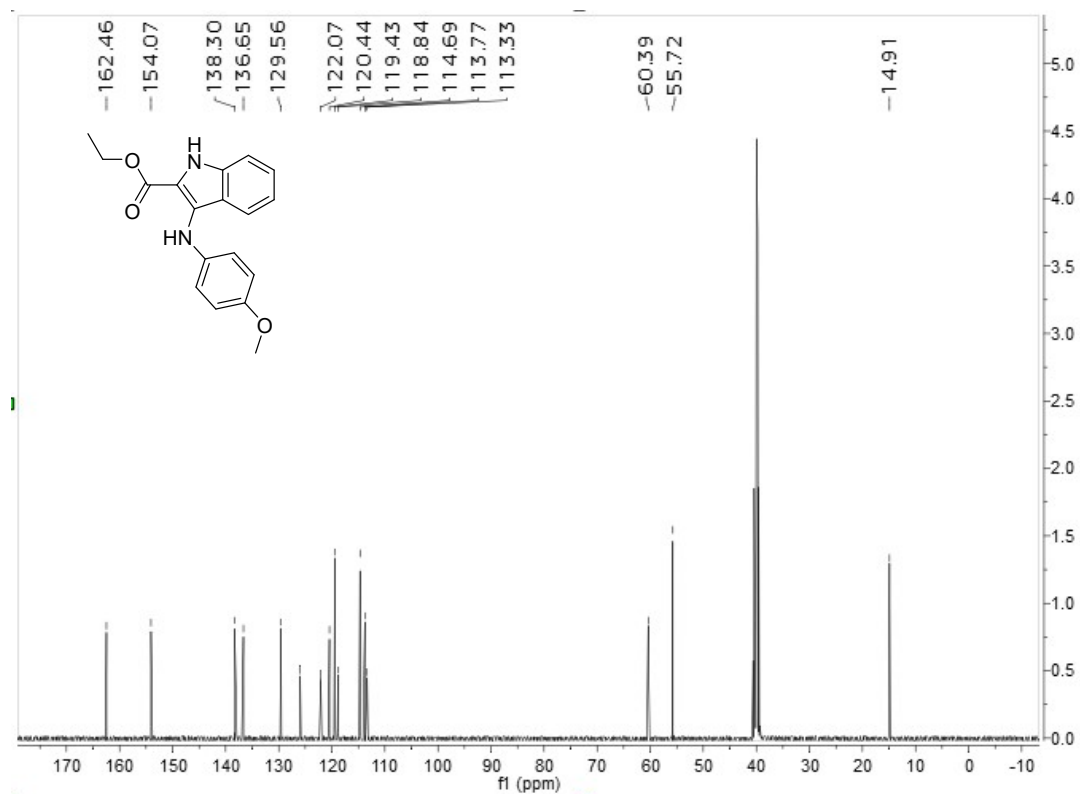
¹H NMR spectrum of **4b**



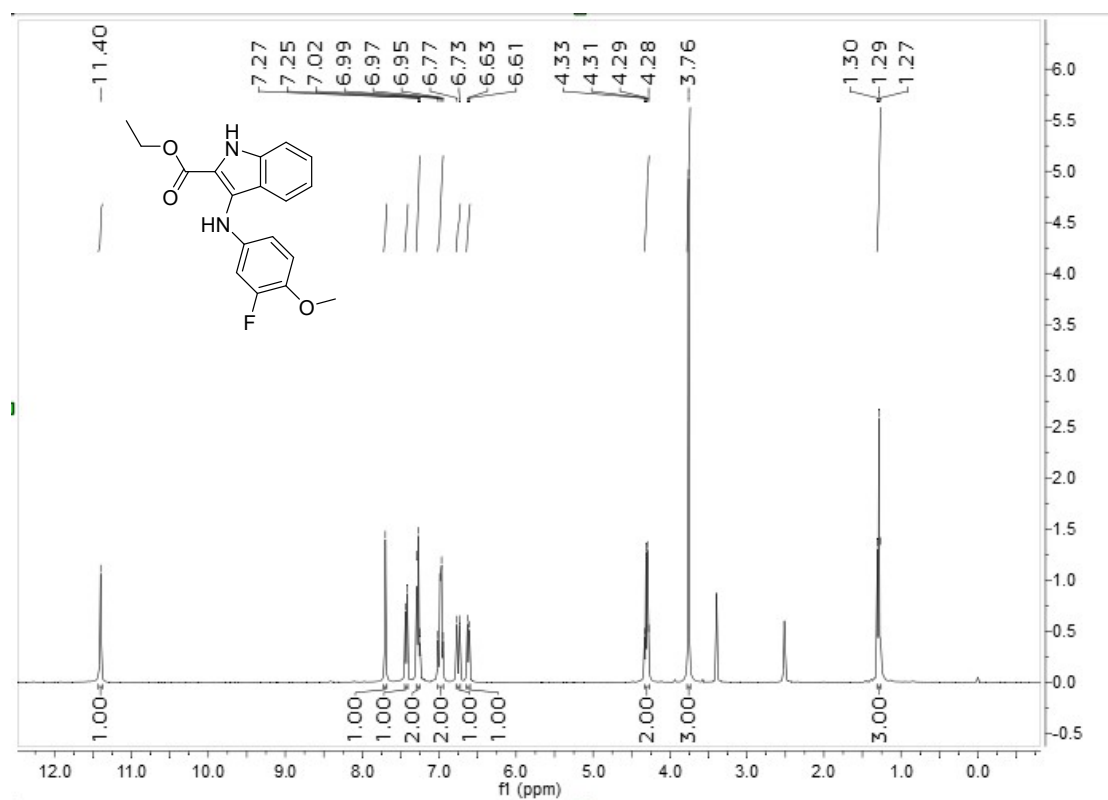
¹³C NMR spectrum of **4b**



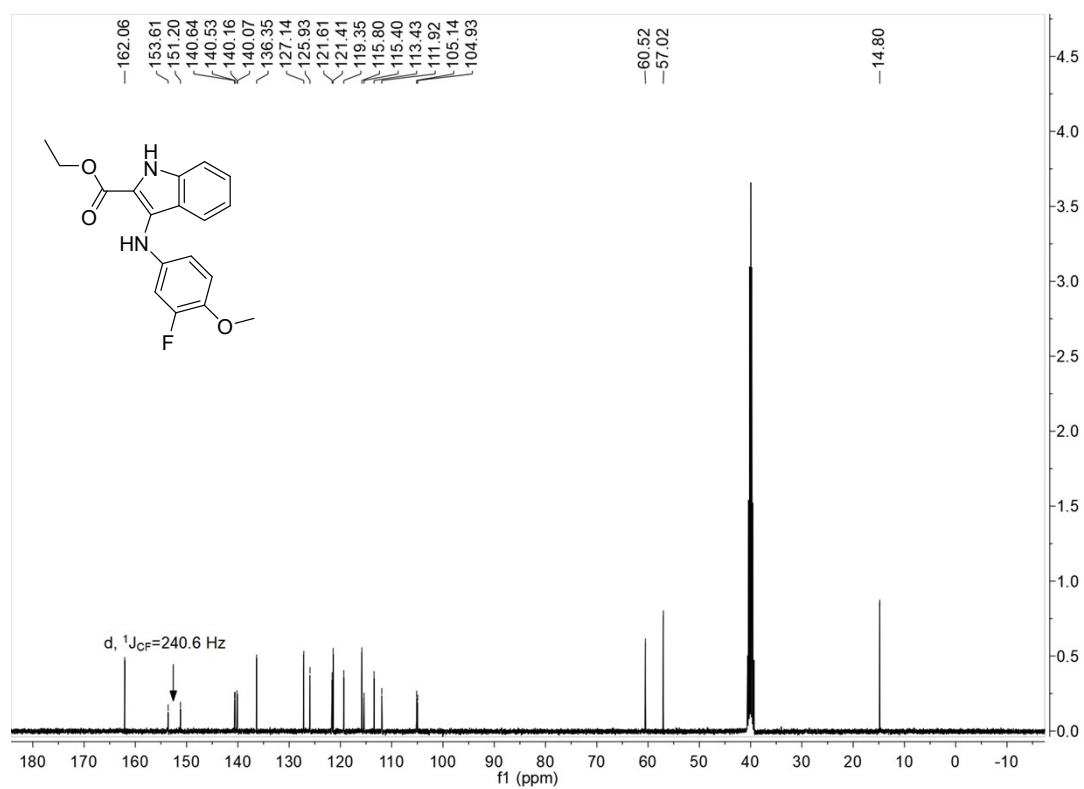
¹H NMR spectrum of **4c**



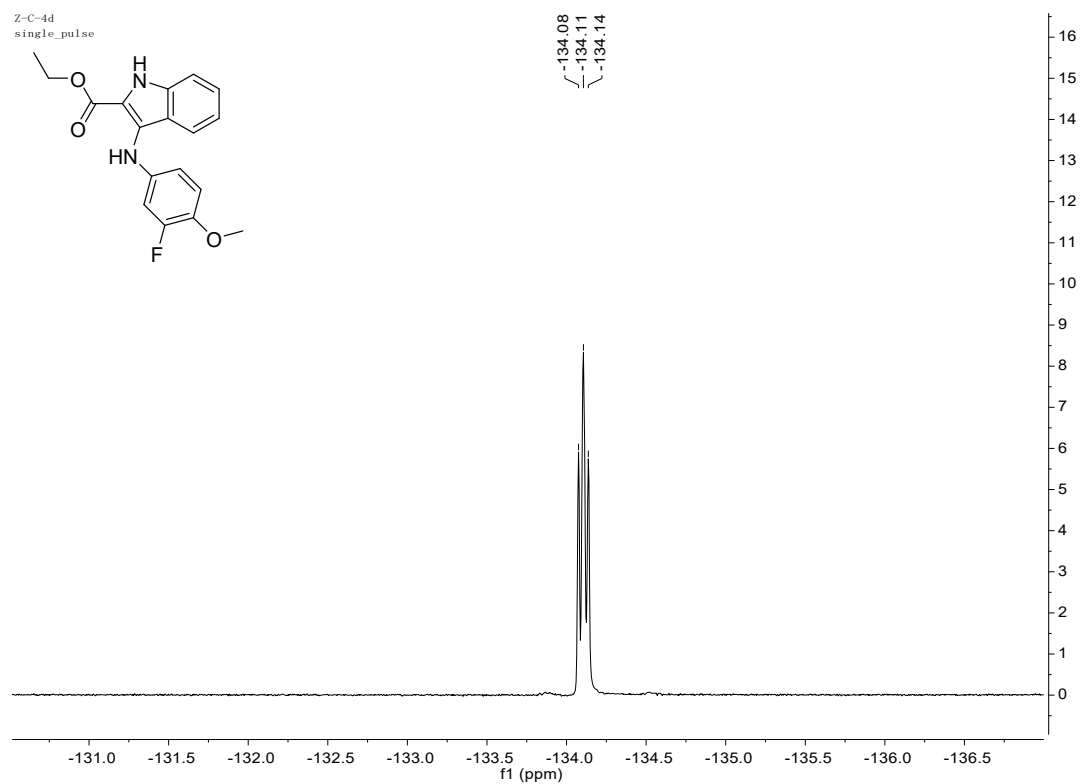
¹³C NMR spectrum of **4c**



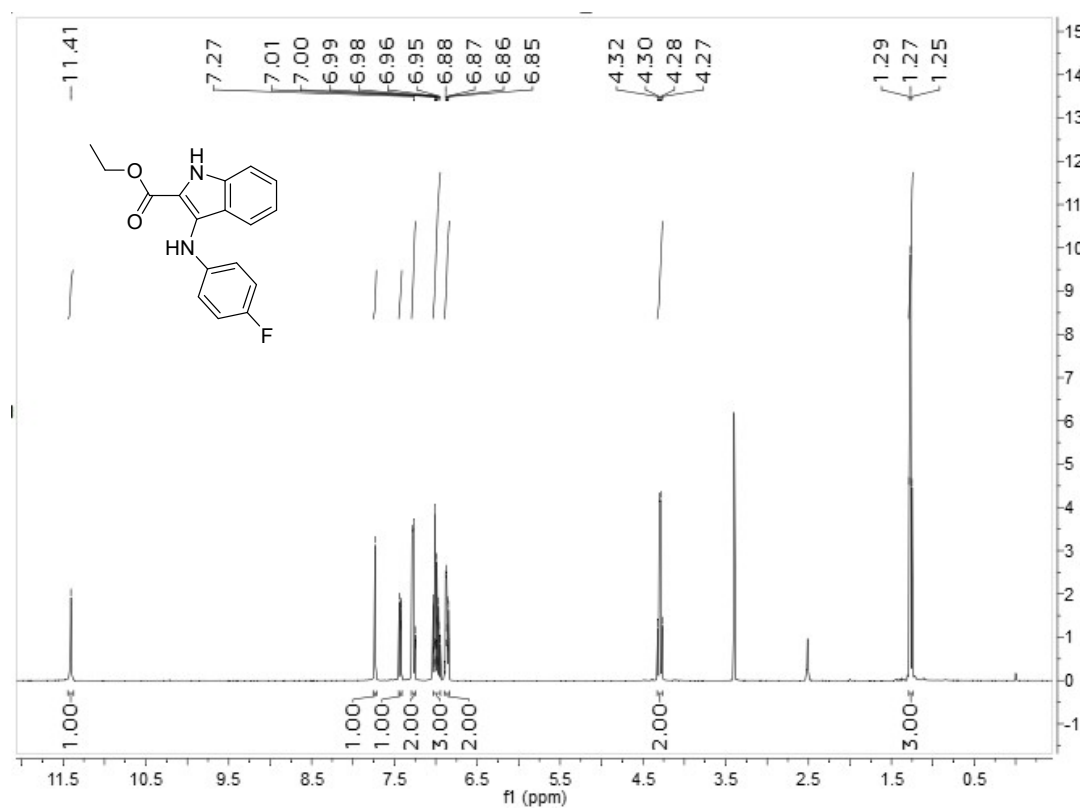
¹H NMR spectrum of **4d**



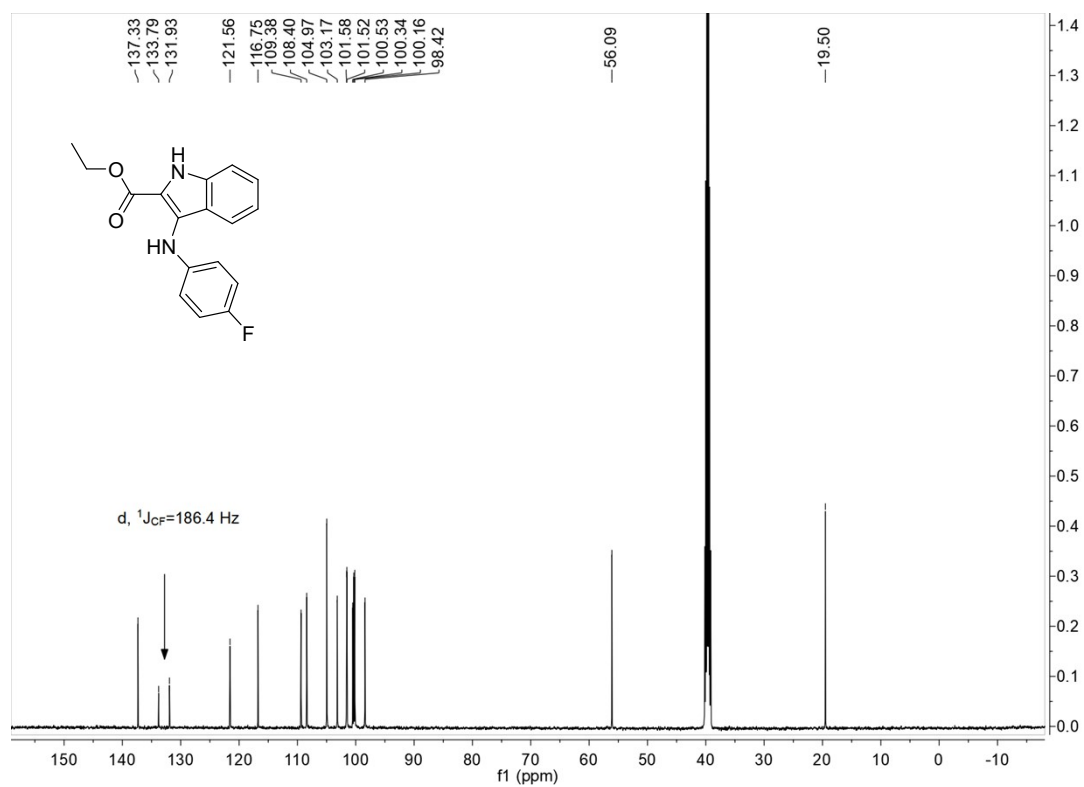
¹³C NMR spectrum of **4d**



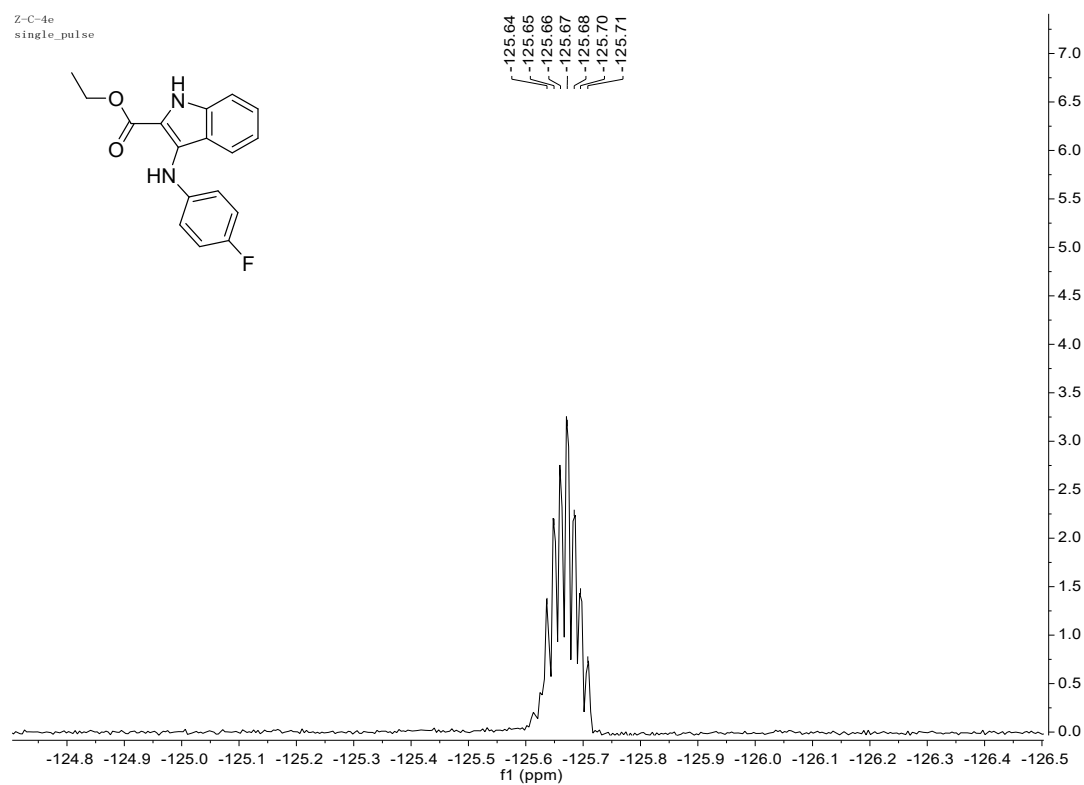
^{19}F NMR spectrum of **4d**



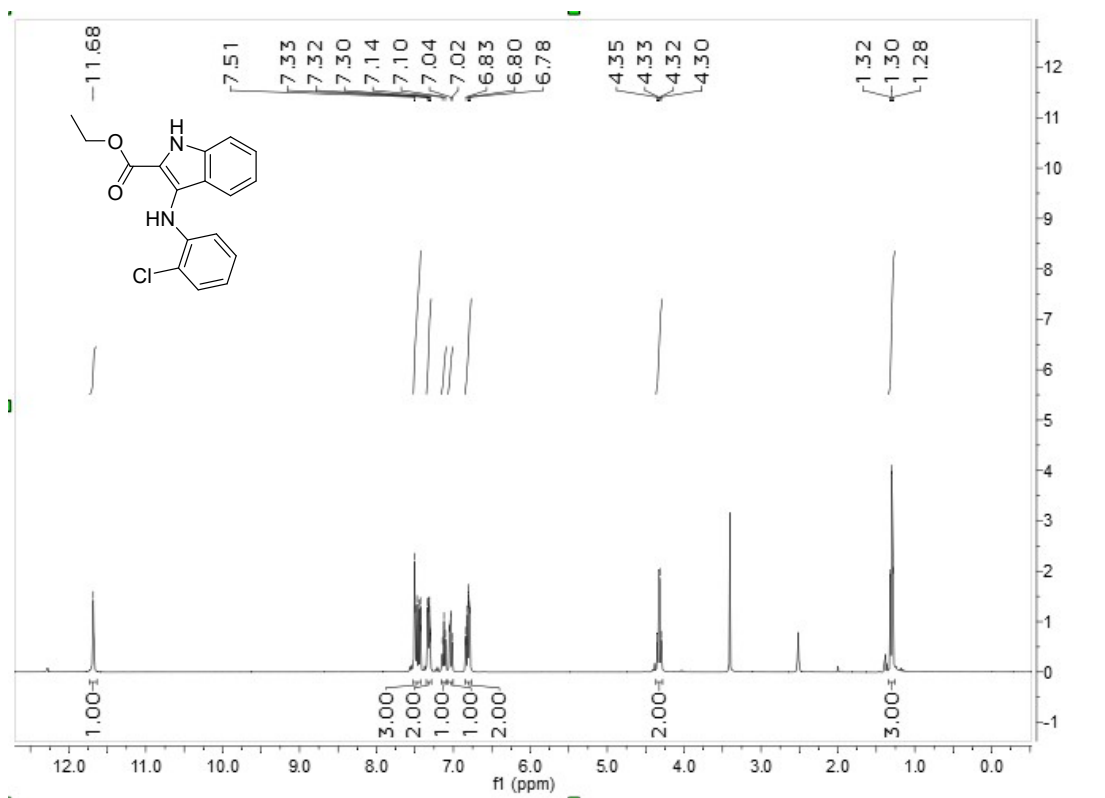
^1H NMR spectrum of **4e**



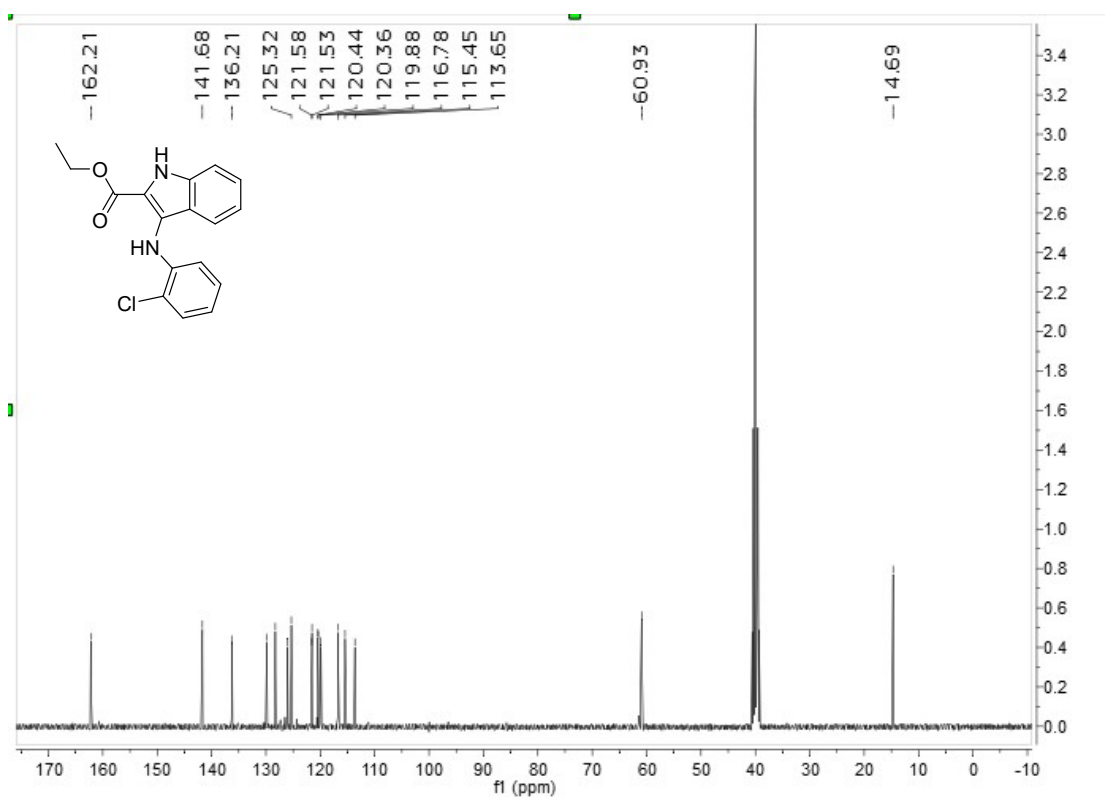
^{13}C NMR spectrum of **4e**



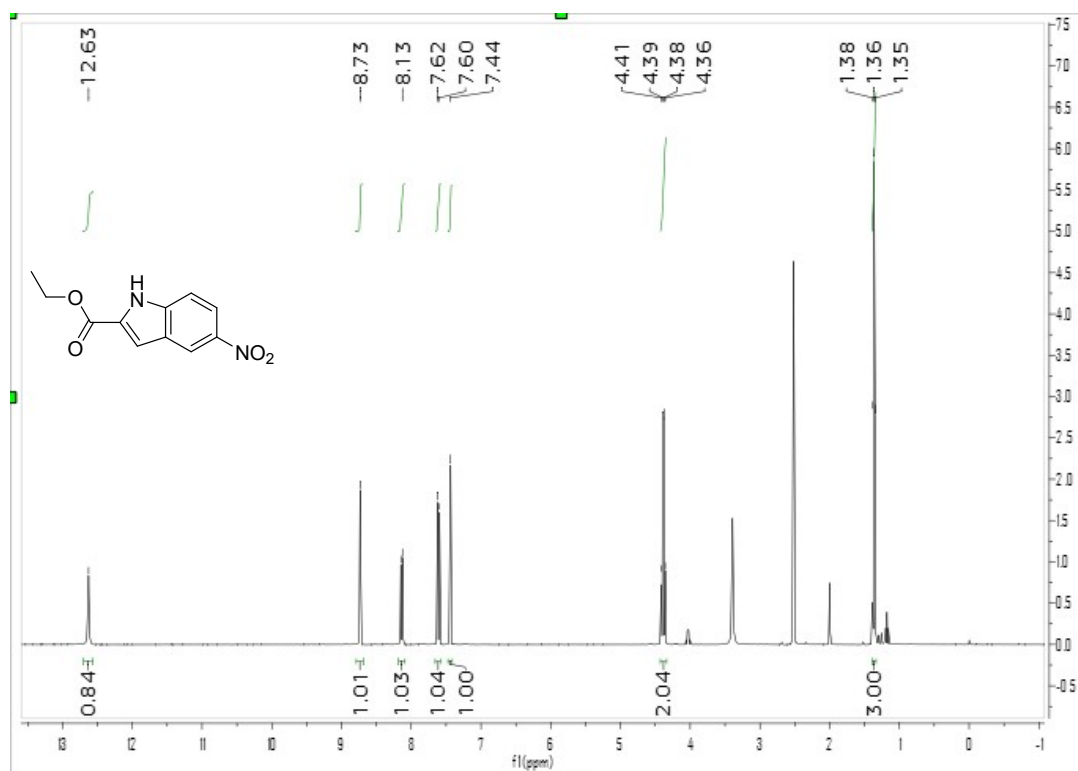
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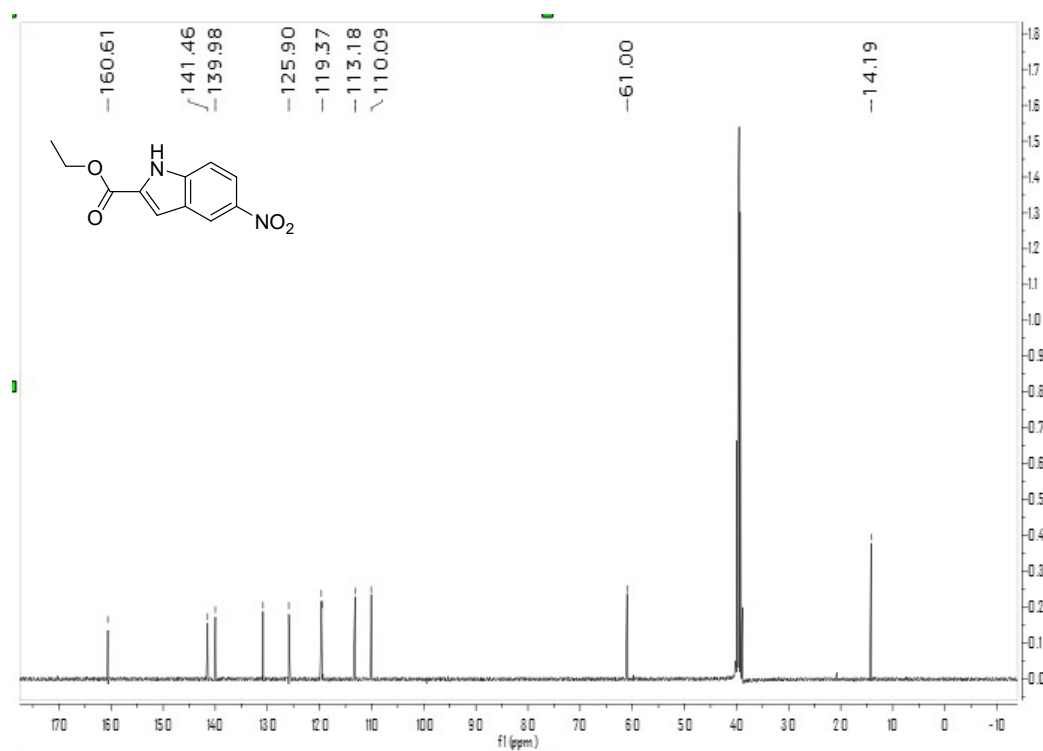
¹H NMR spectrum of **4f**



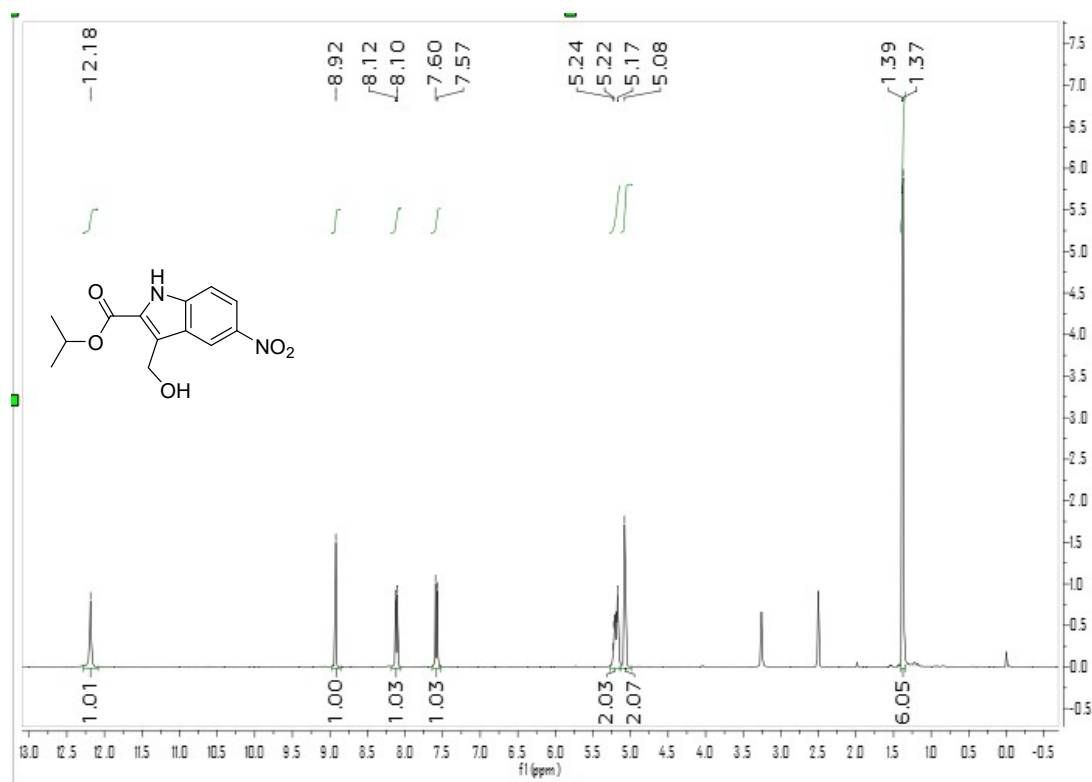
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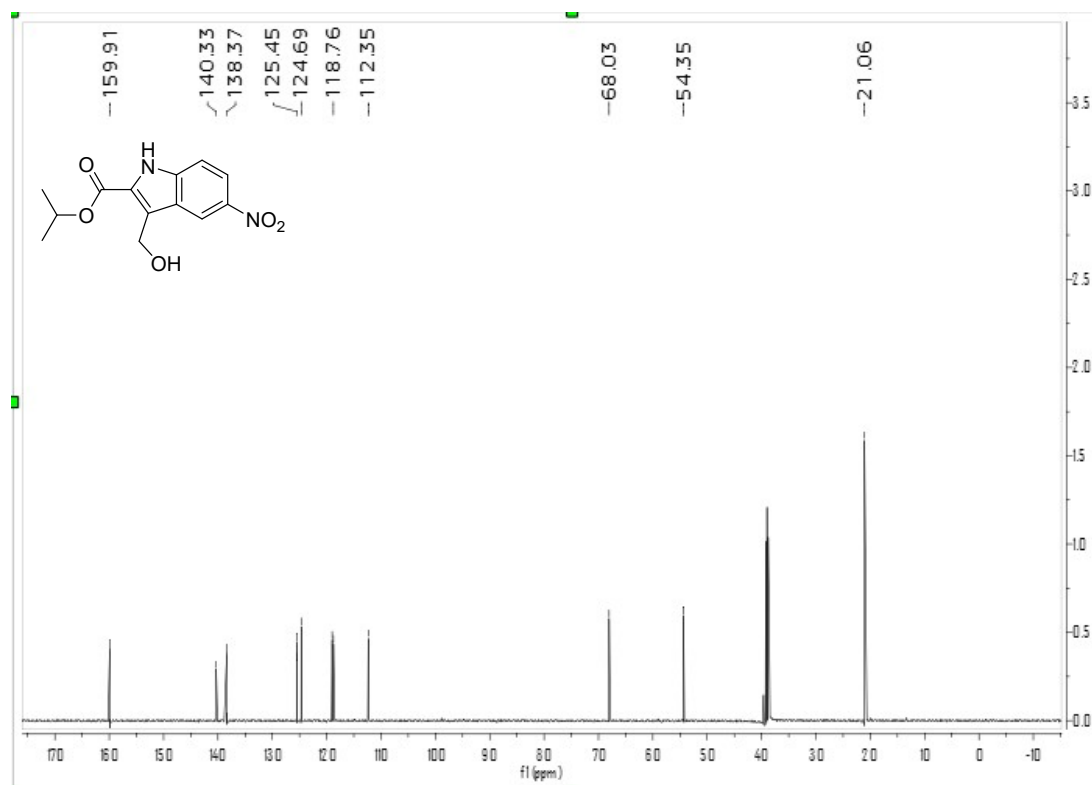
^1H NMR spectrum of **6**



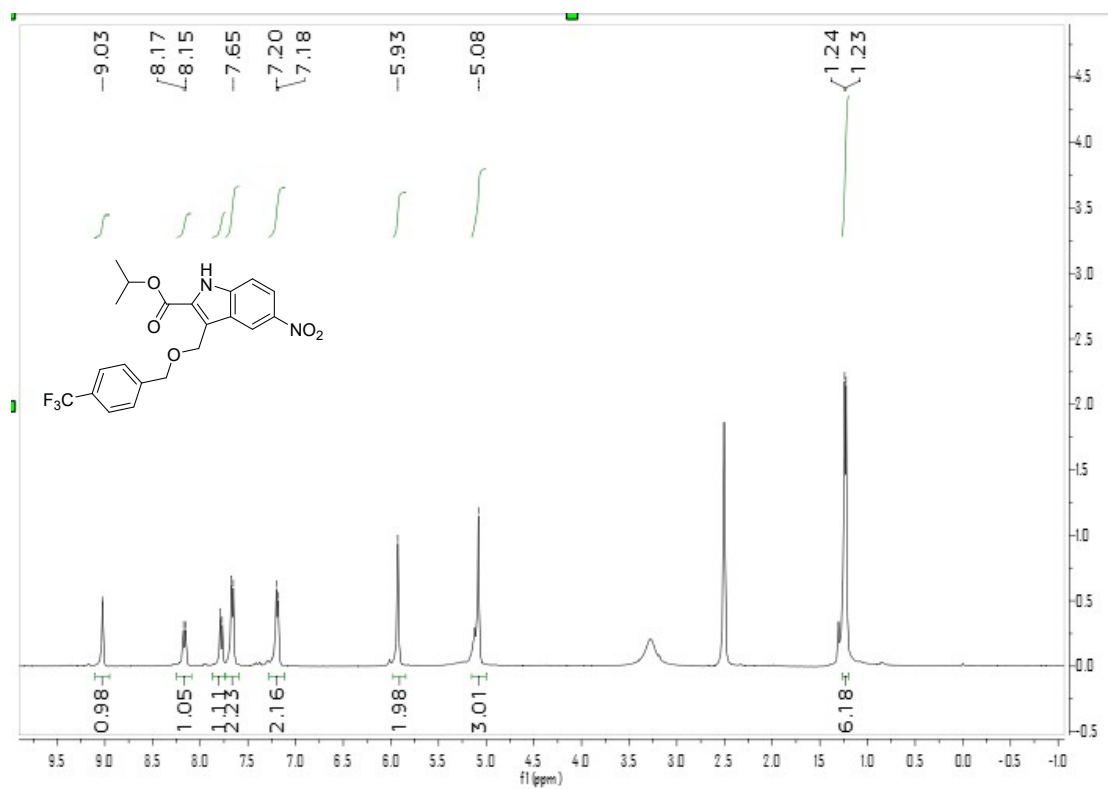
^{13}C NMR spectrum of **6**



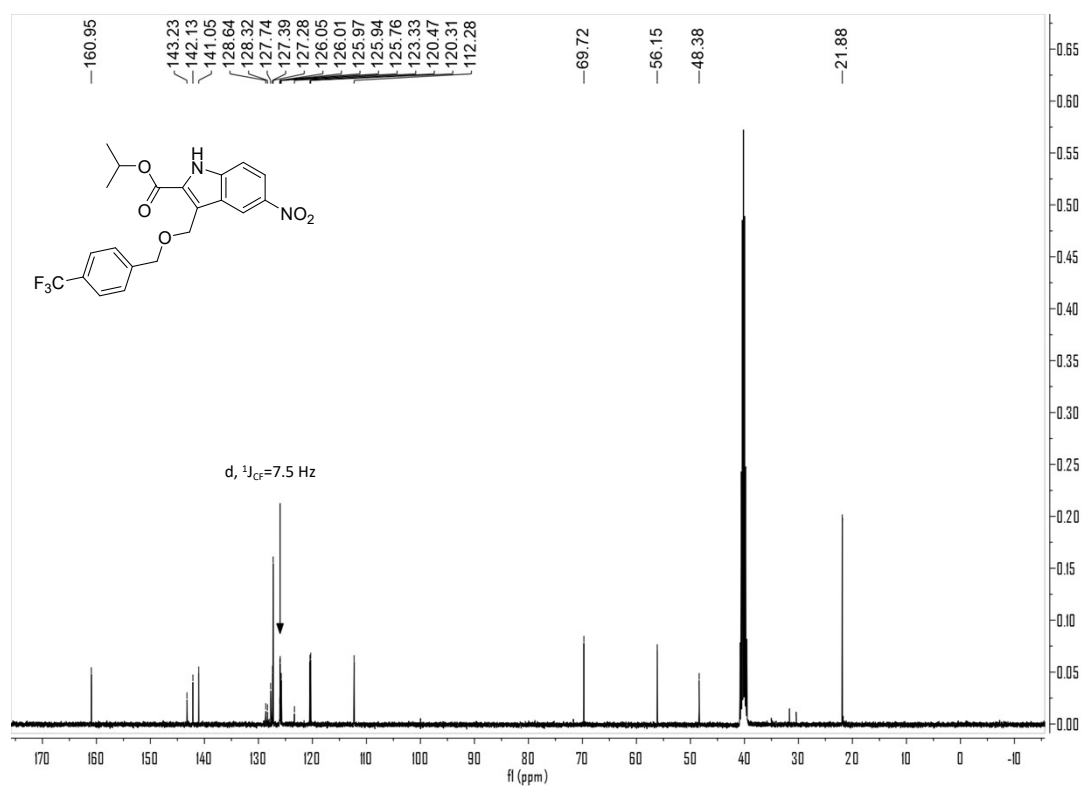
¹H NMR spectrum of **8**



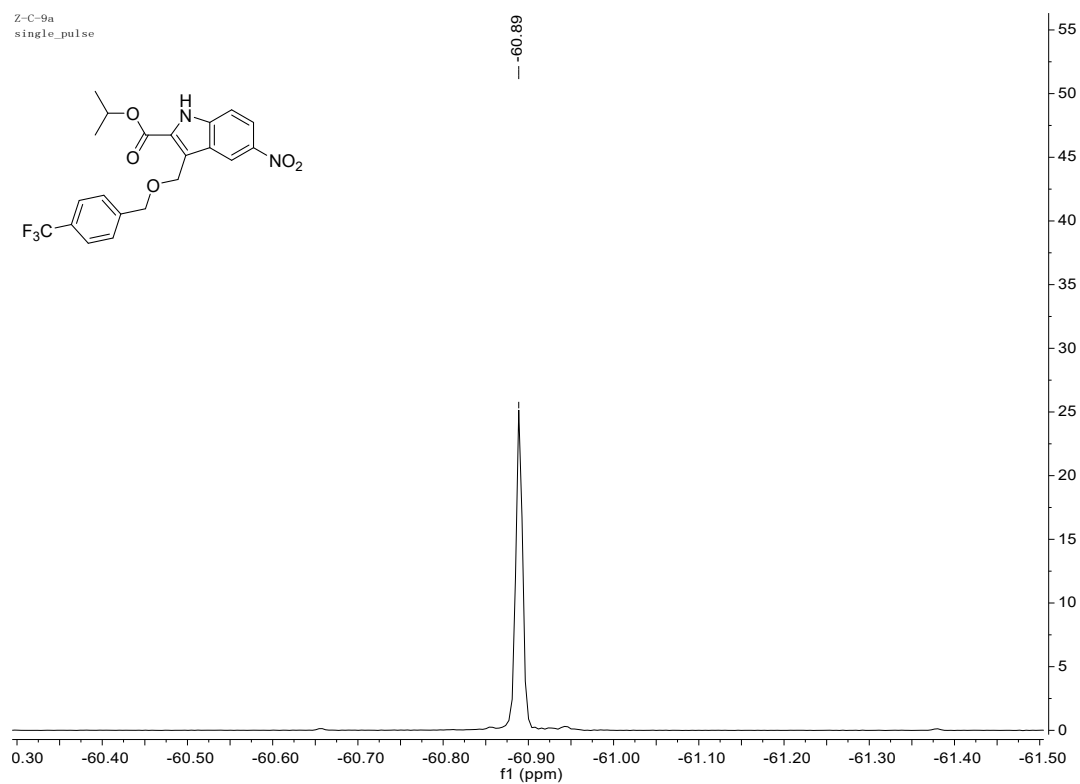
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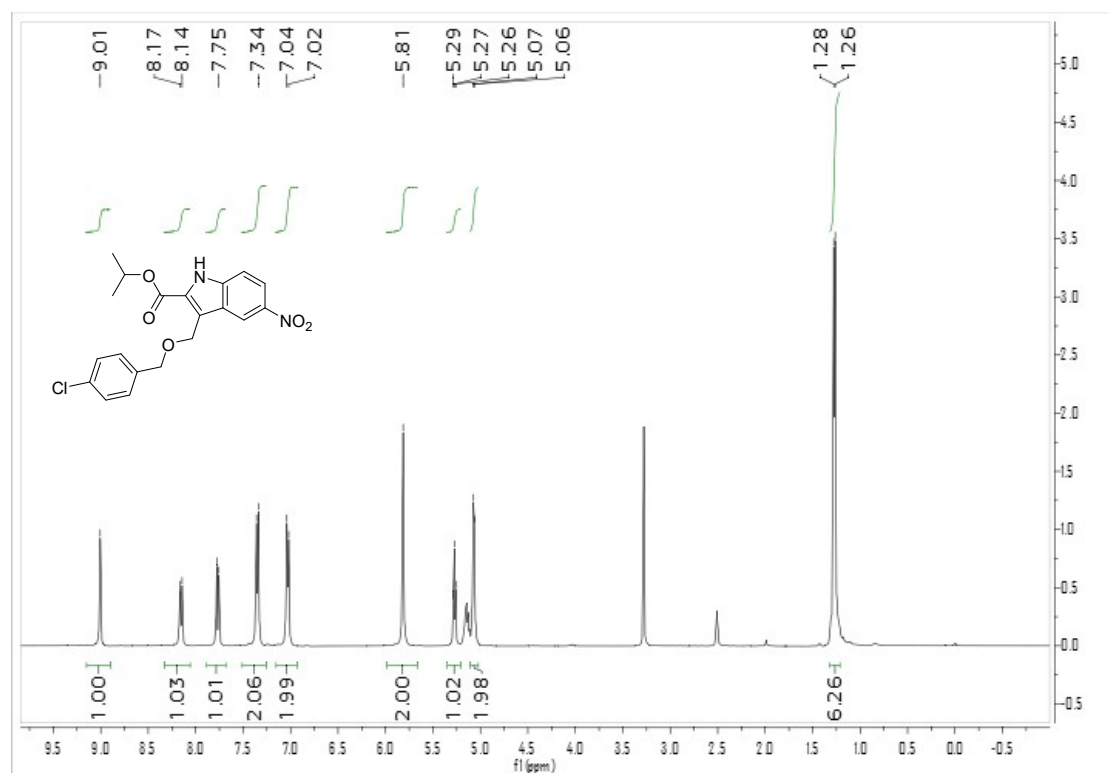
¹H NMR spectrum of 9a



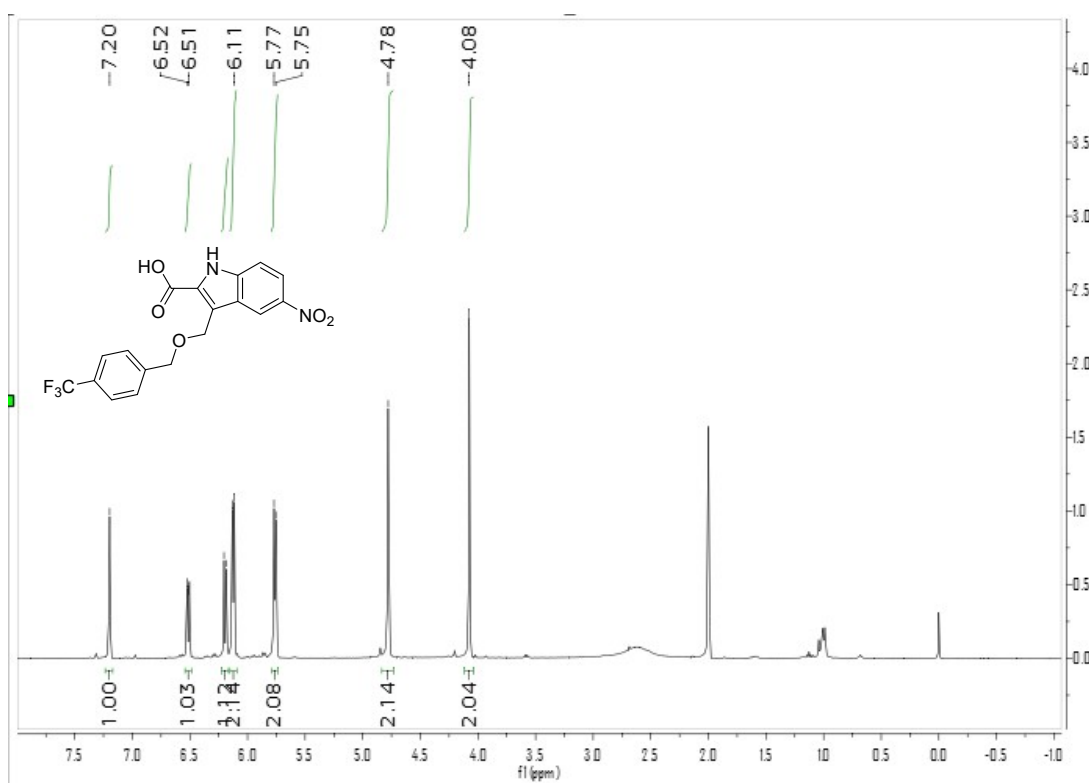
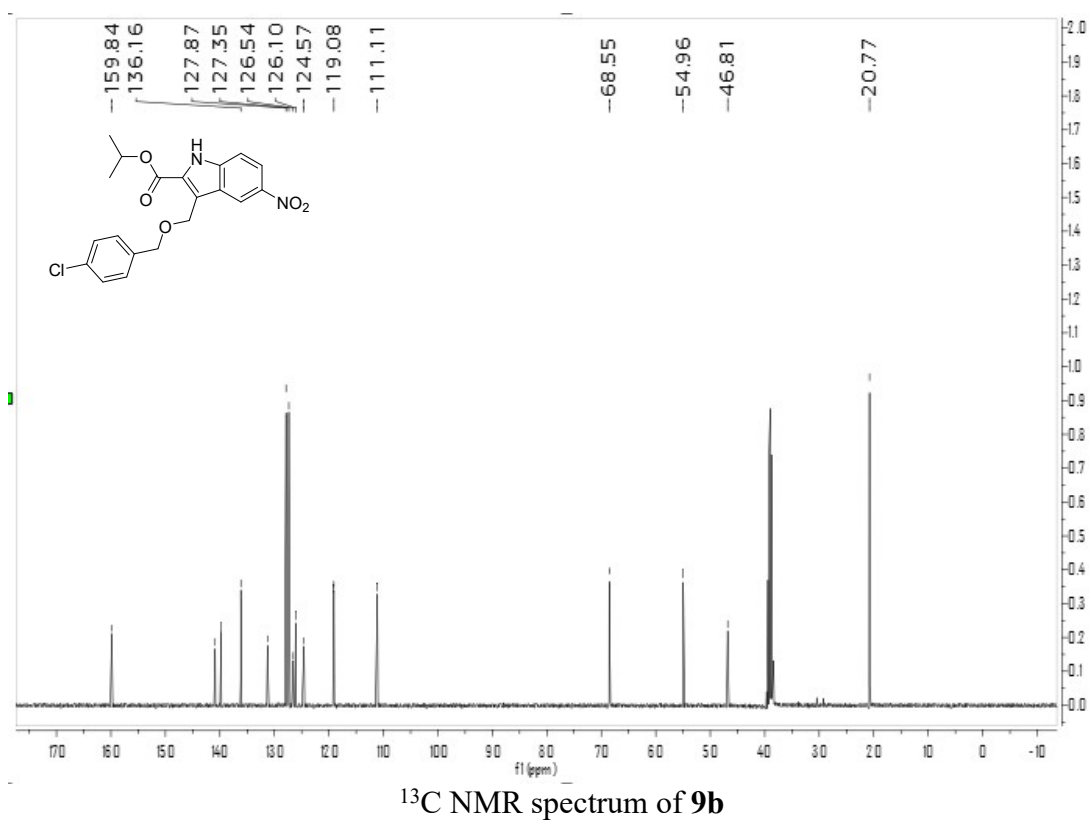
¹³C NMR spectrum of 9a

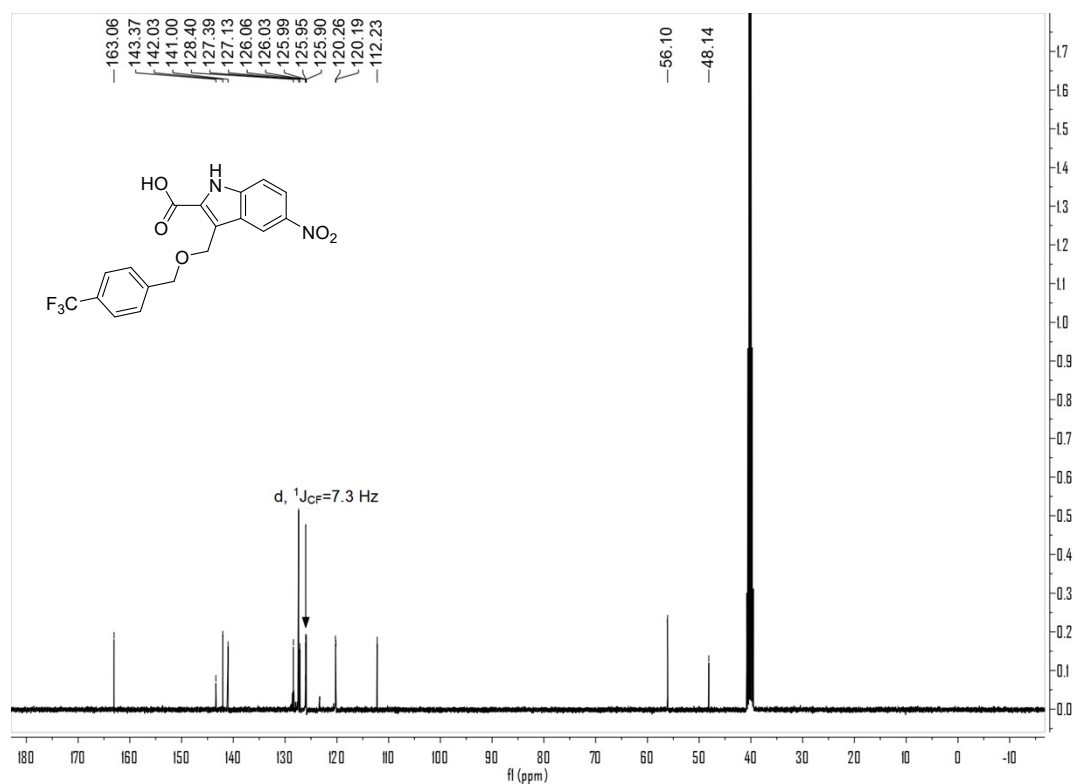


^{19}F NMR spectrum of **9a**

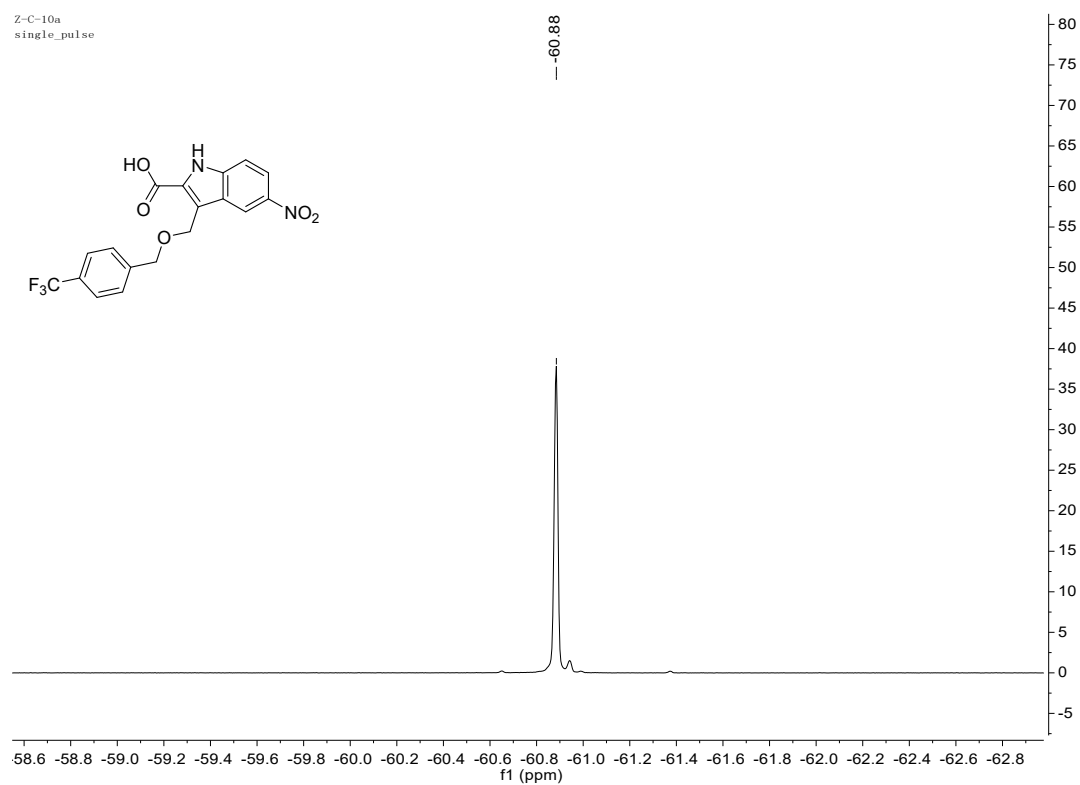


^1H NMR spectrum of **9b**

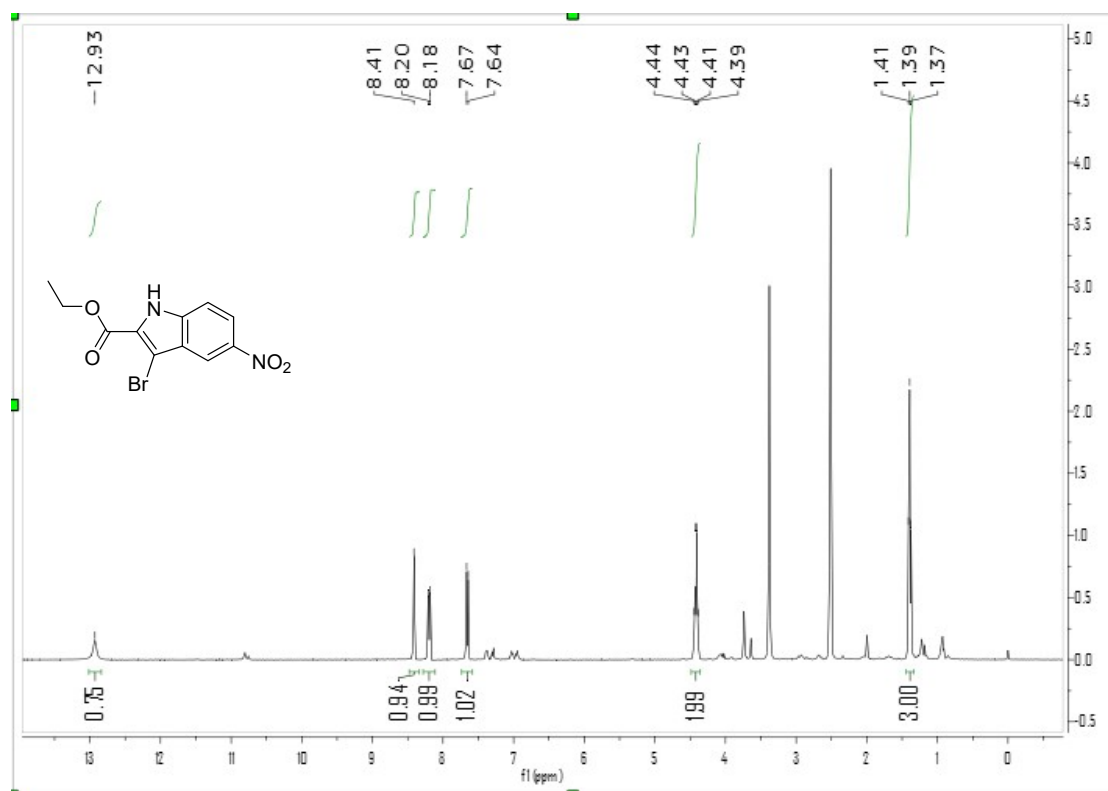




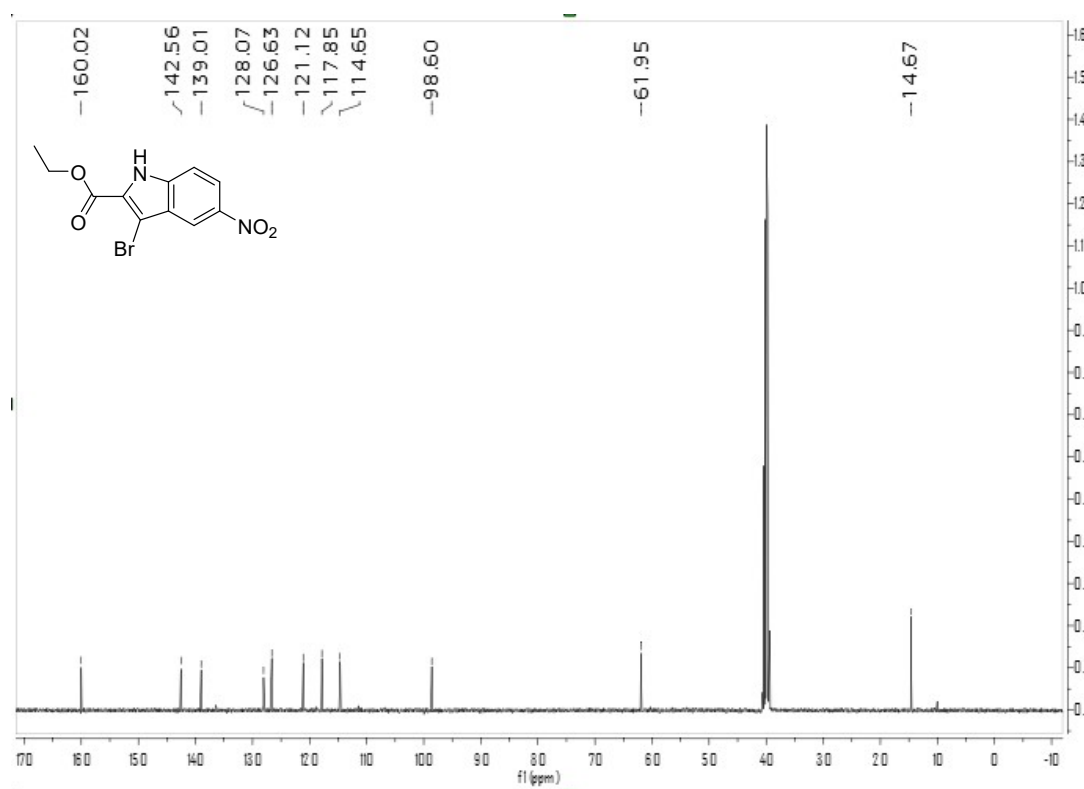
^{13}C NMR spectrum of **10a**



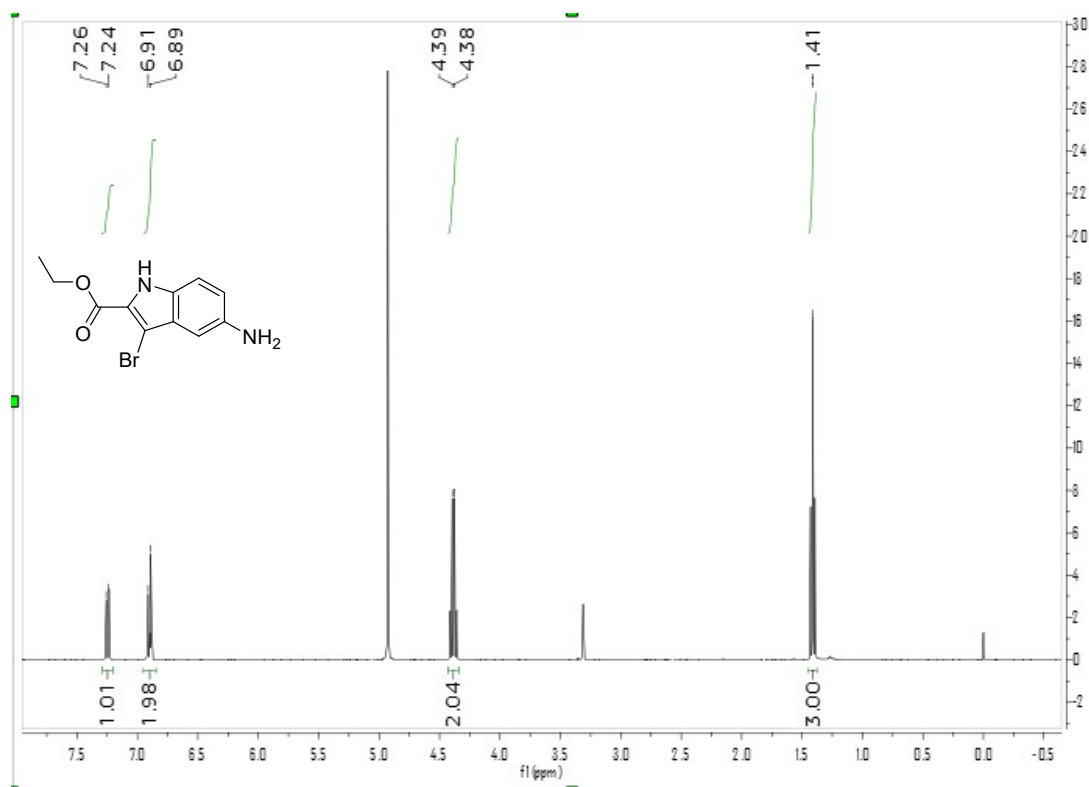
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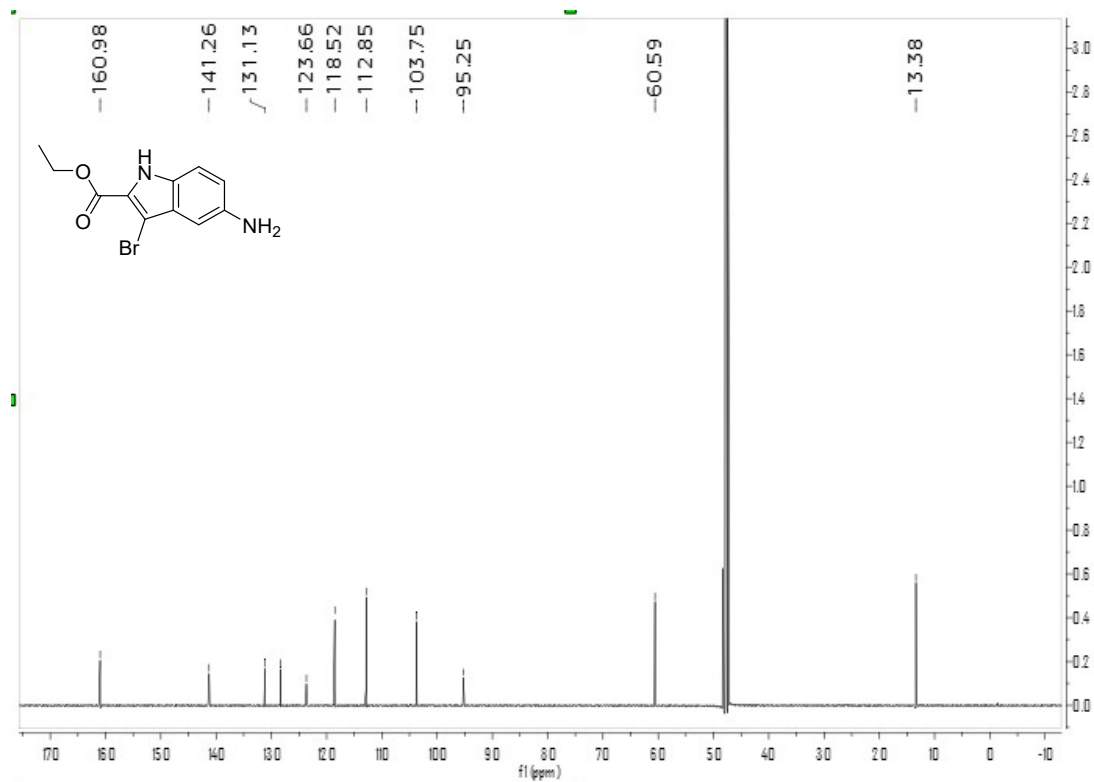
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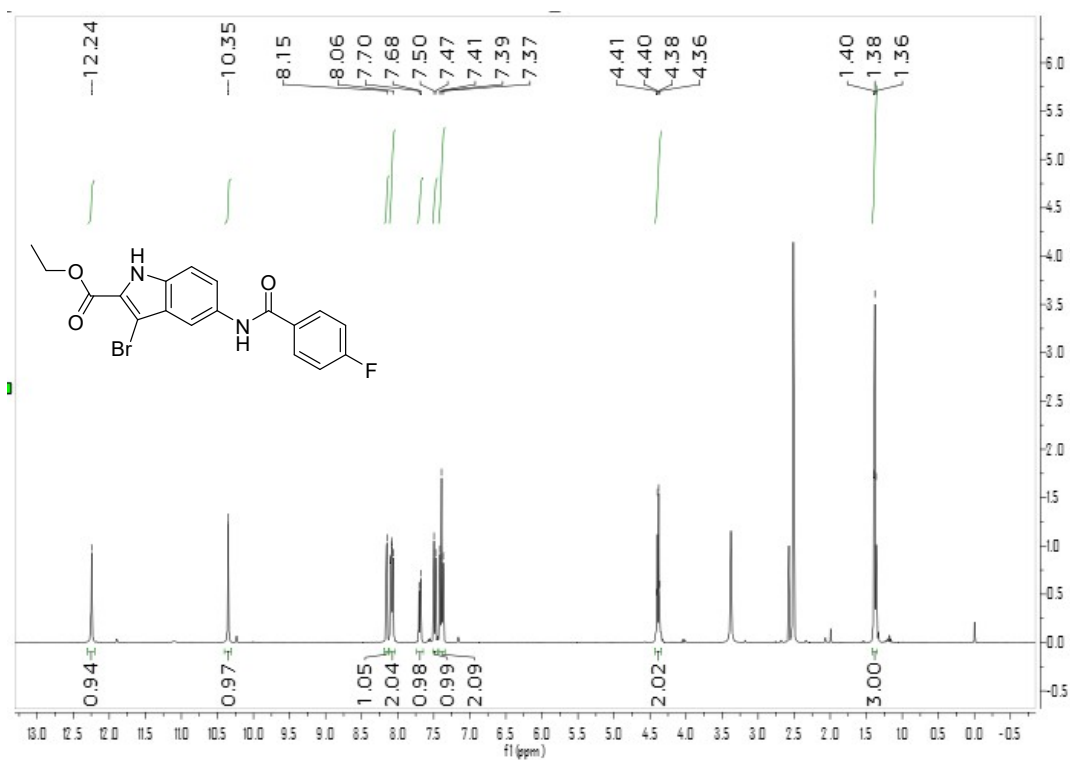
¹³C NMR spectrum of **11**



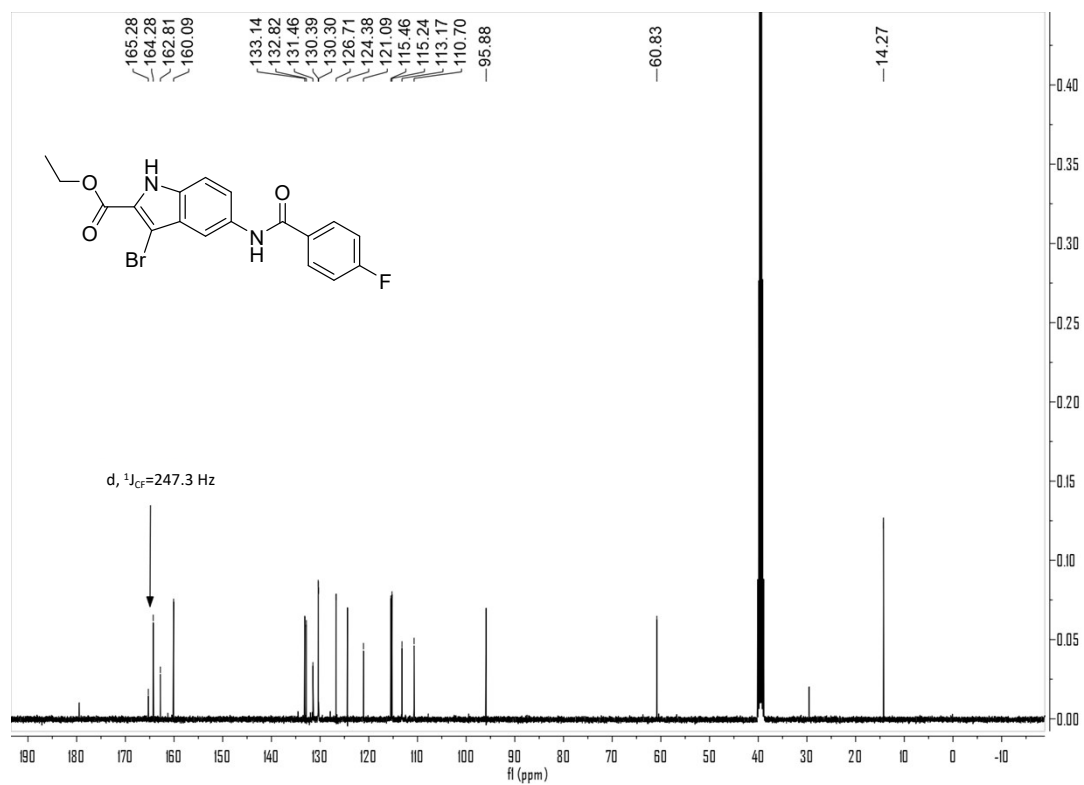
¹H NMR spectrum of **12**



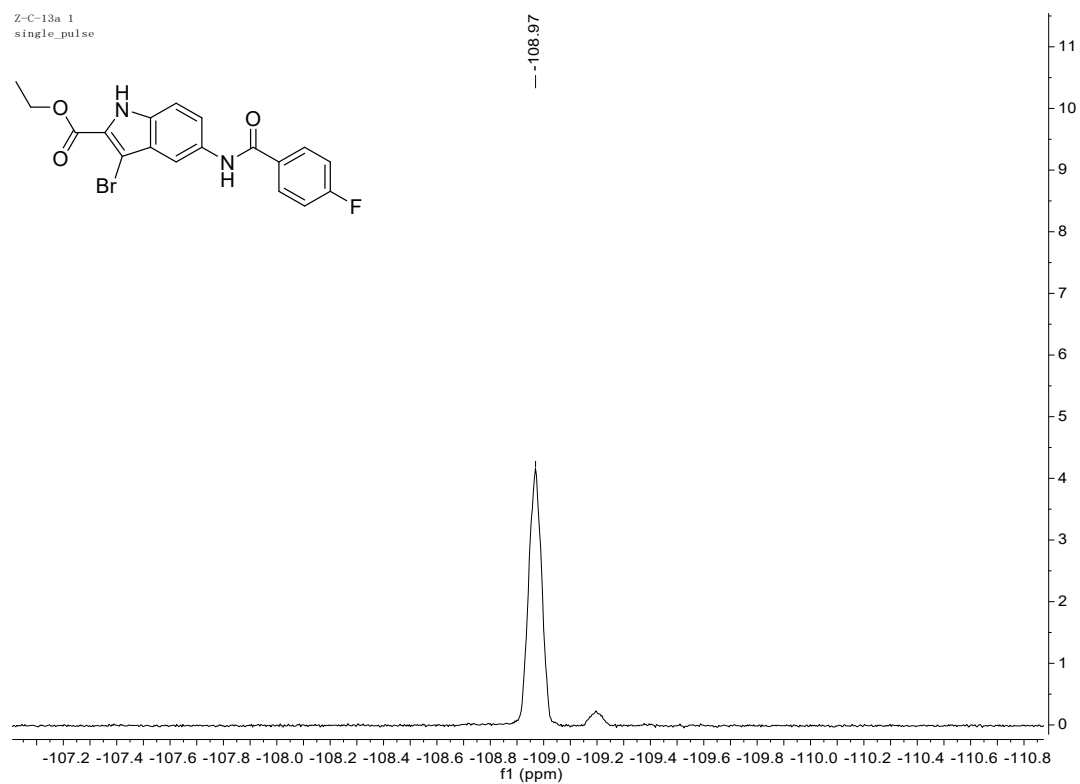
¹³C NMR spectrum of **12**



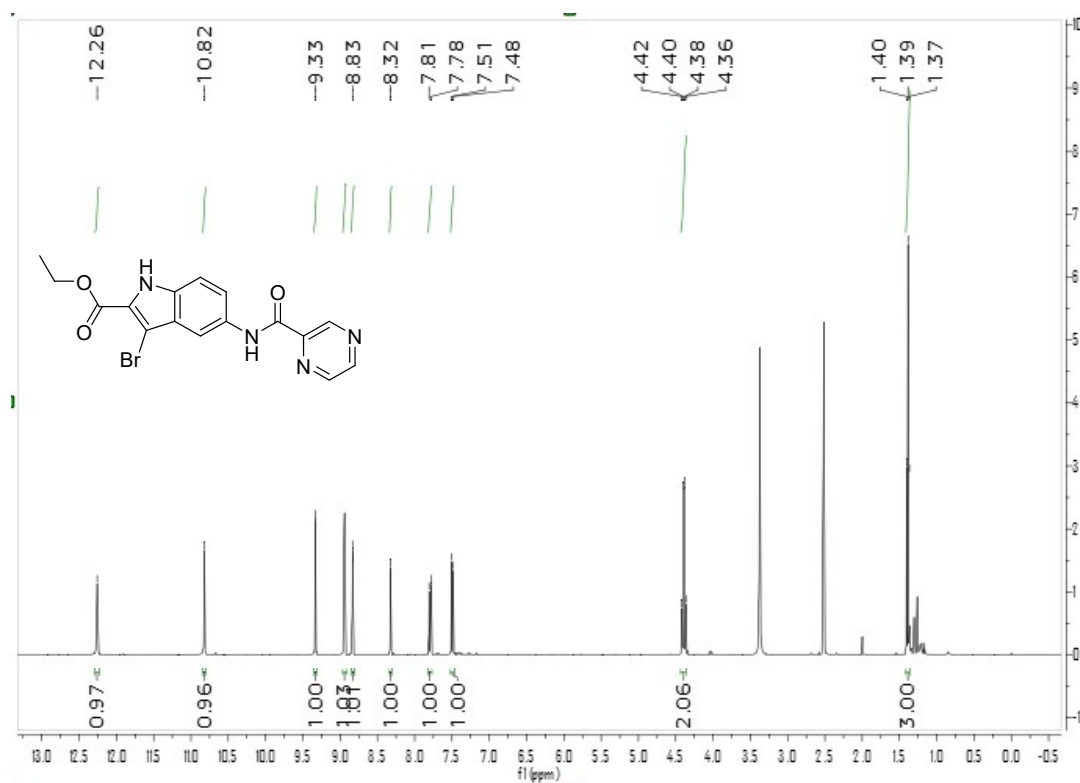
¹H NMR spectrum of **13a**



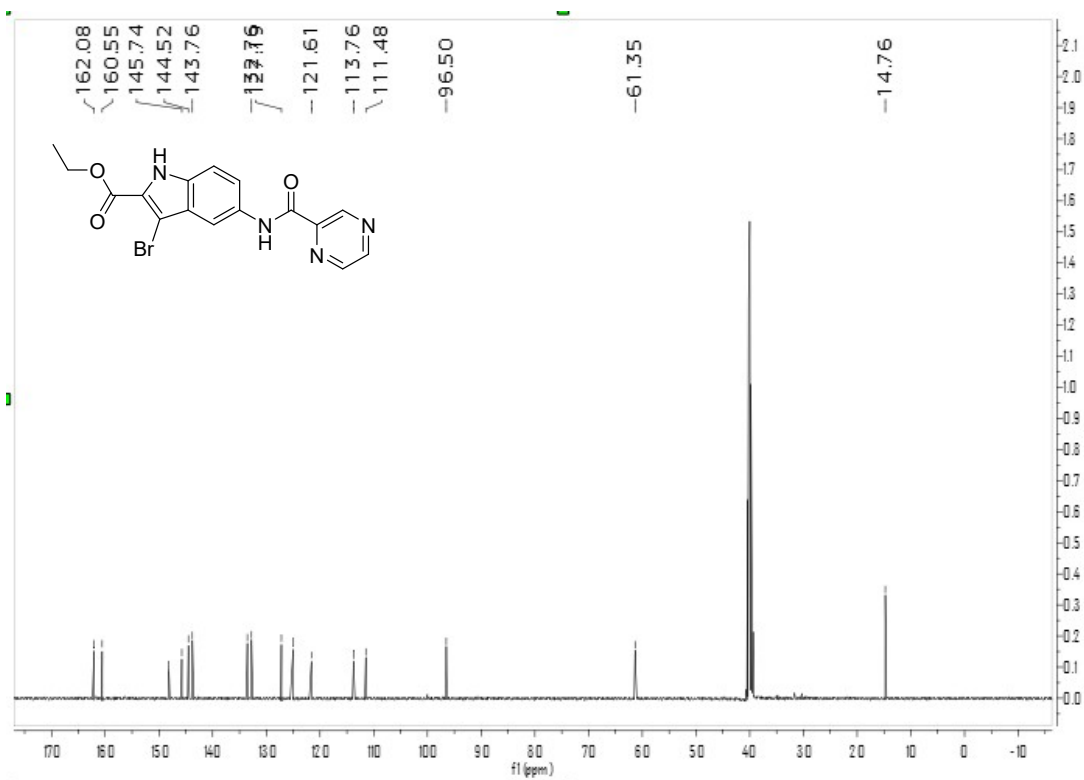
¹³C NMR spectrum of **13a**



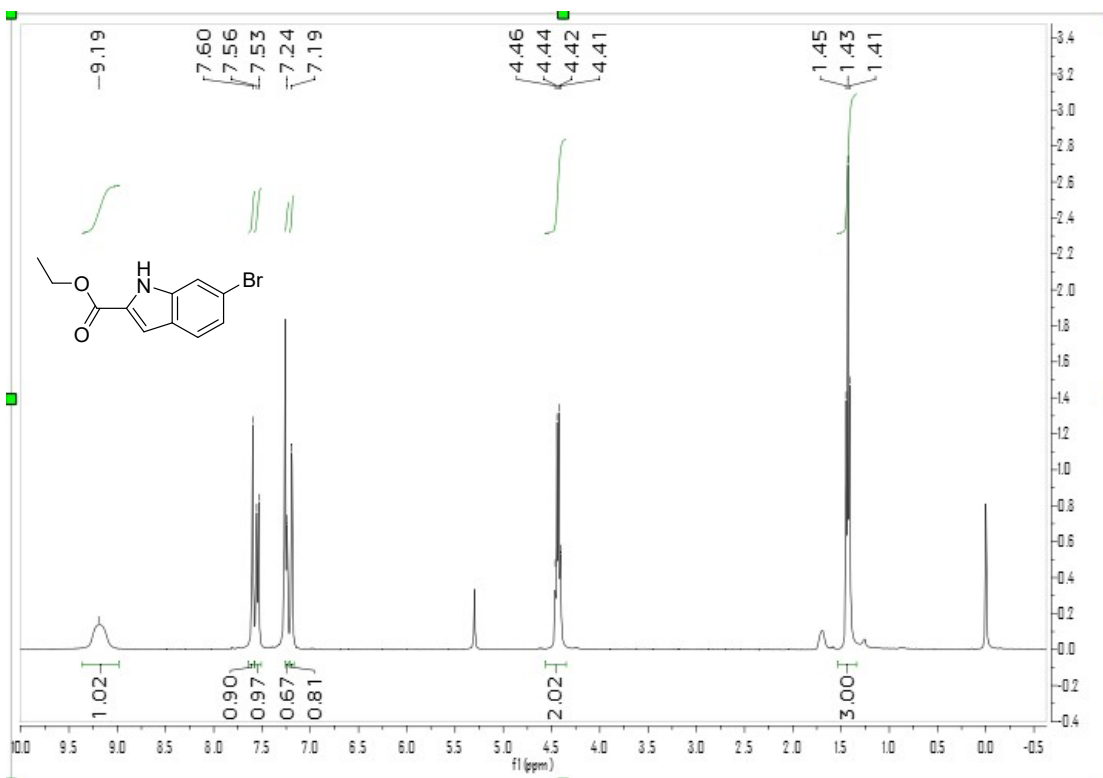
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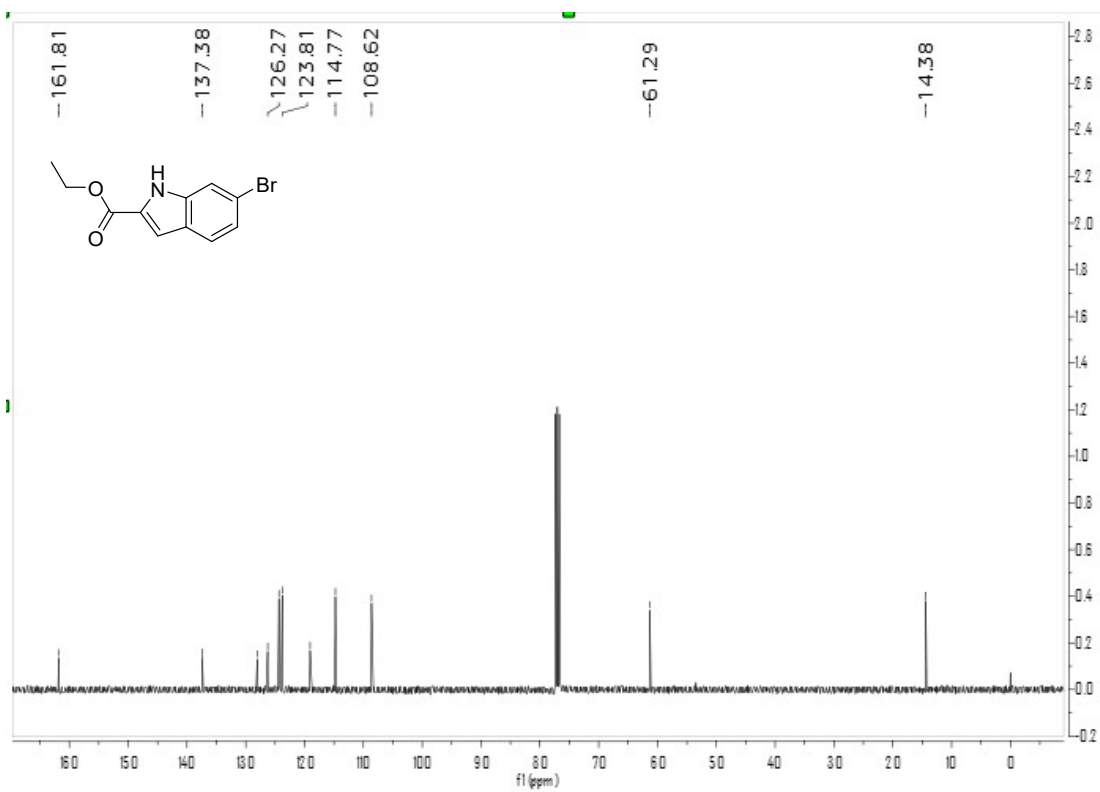
^1H NMR spectrum of **13b**



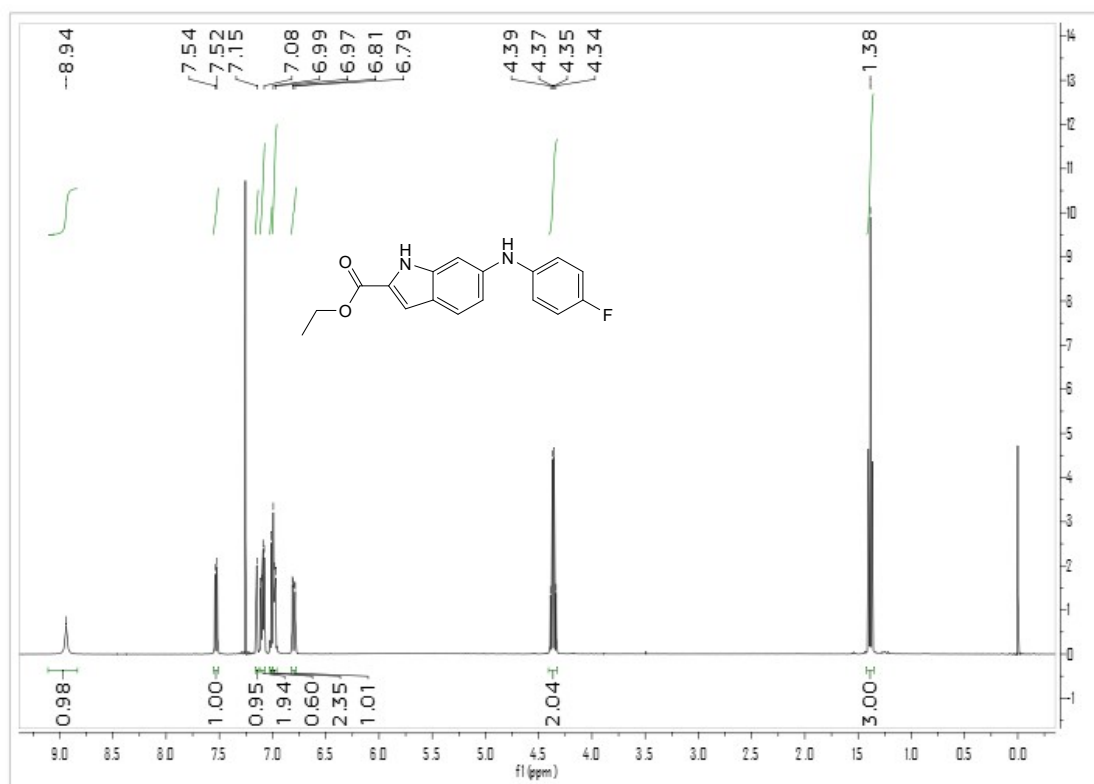
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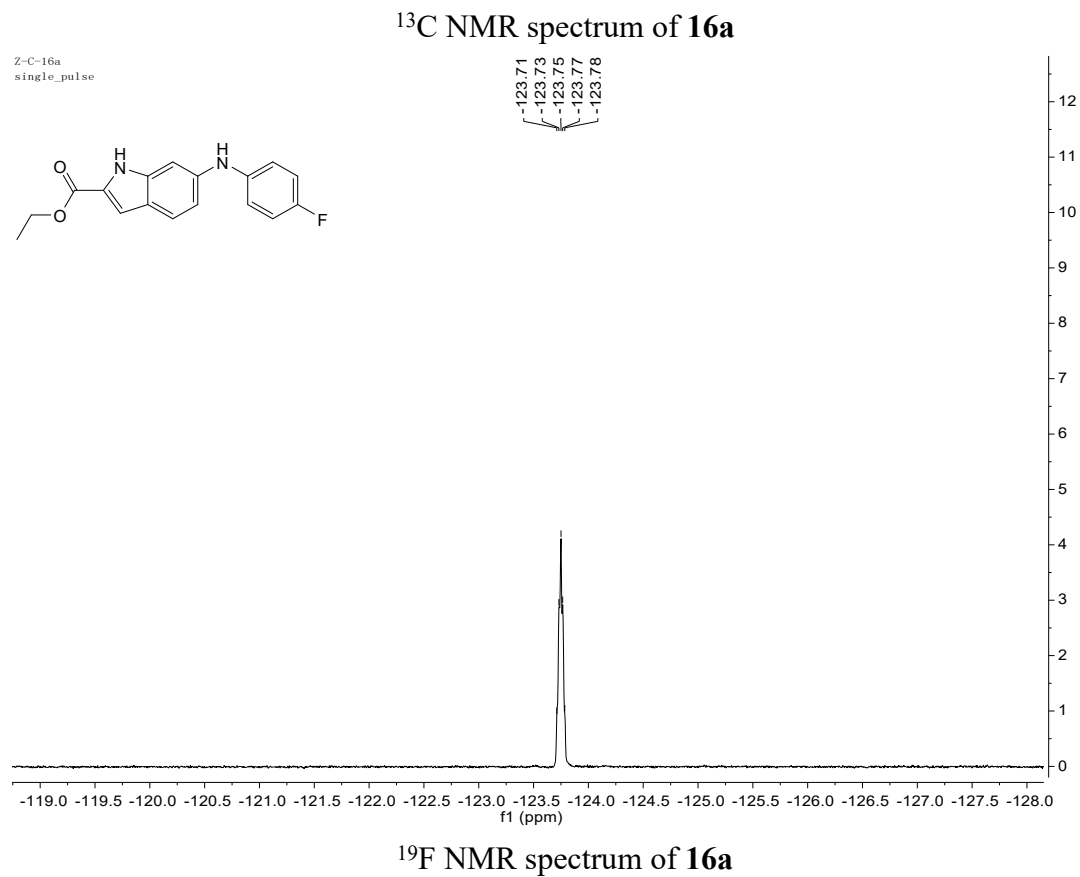
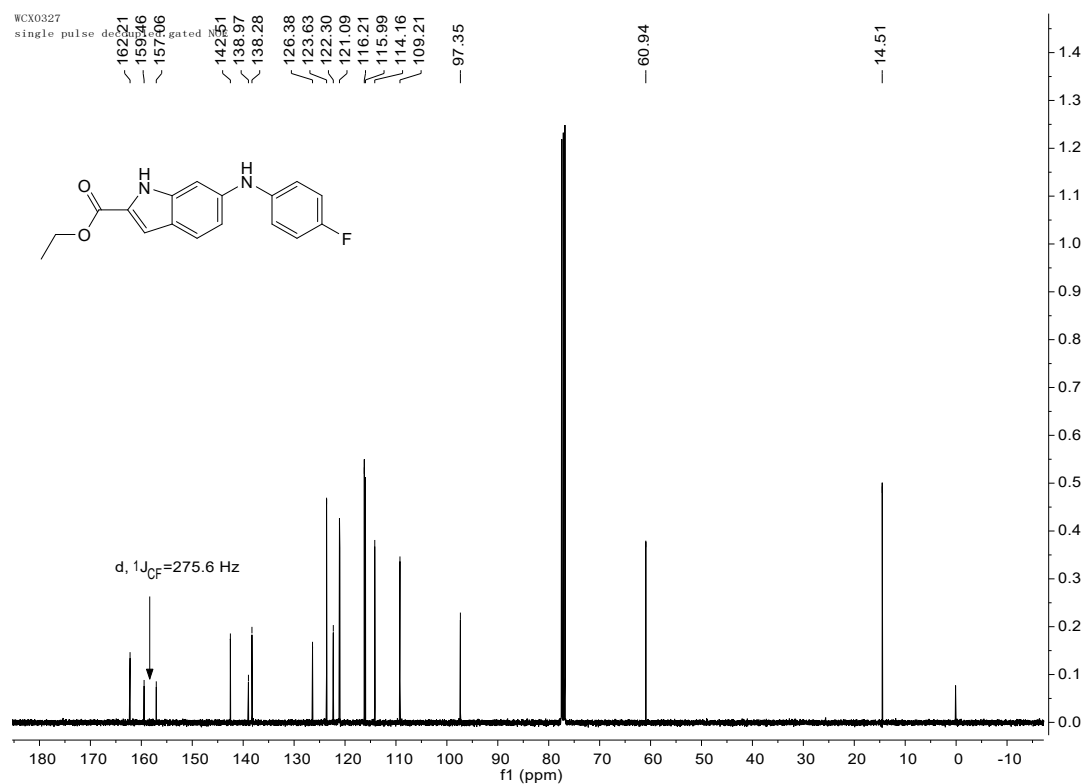
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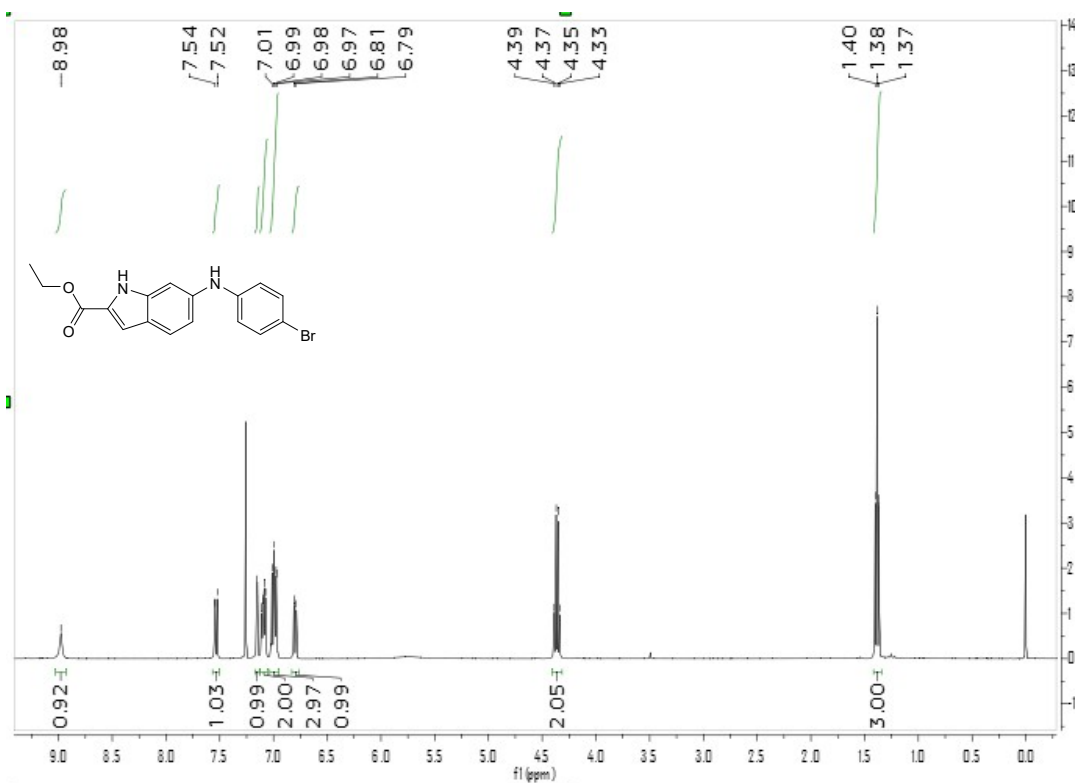


¹³C NMR spectrum of **15**

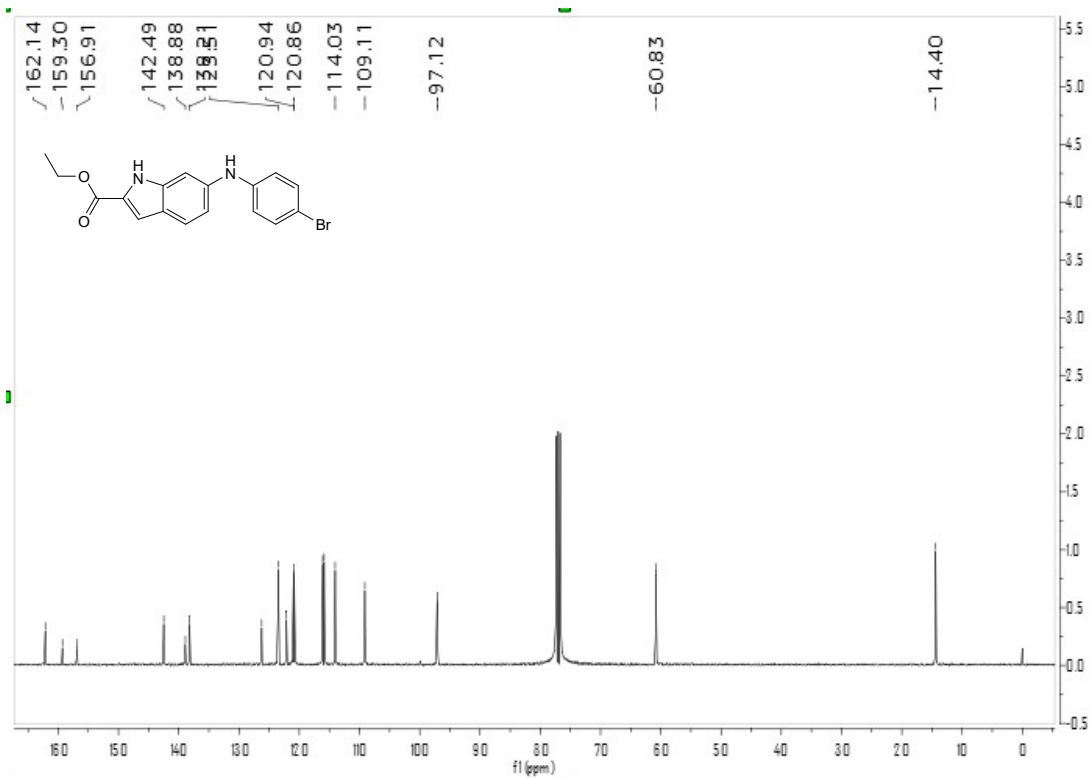


¹H NMR spectrum of **16a**

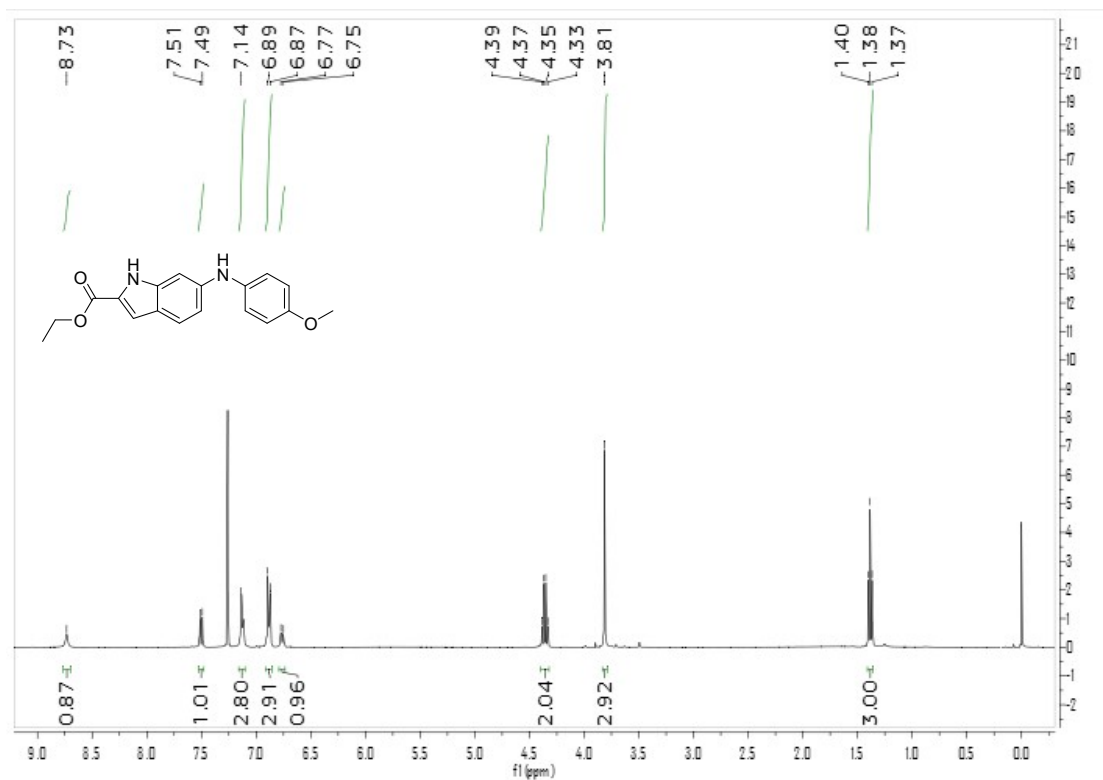




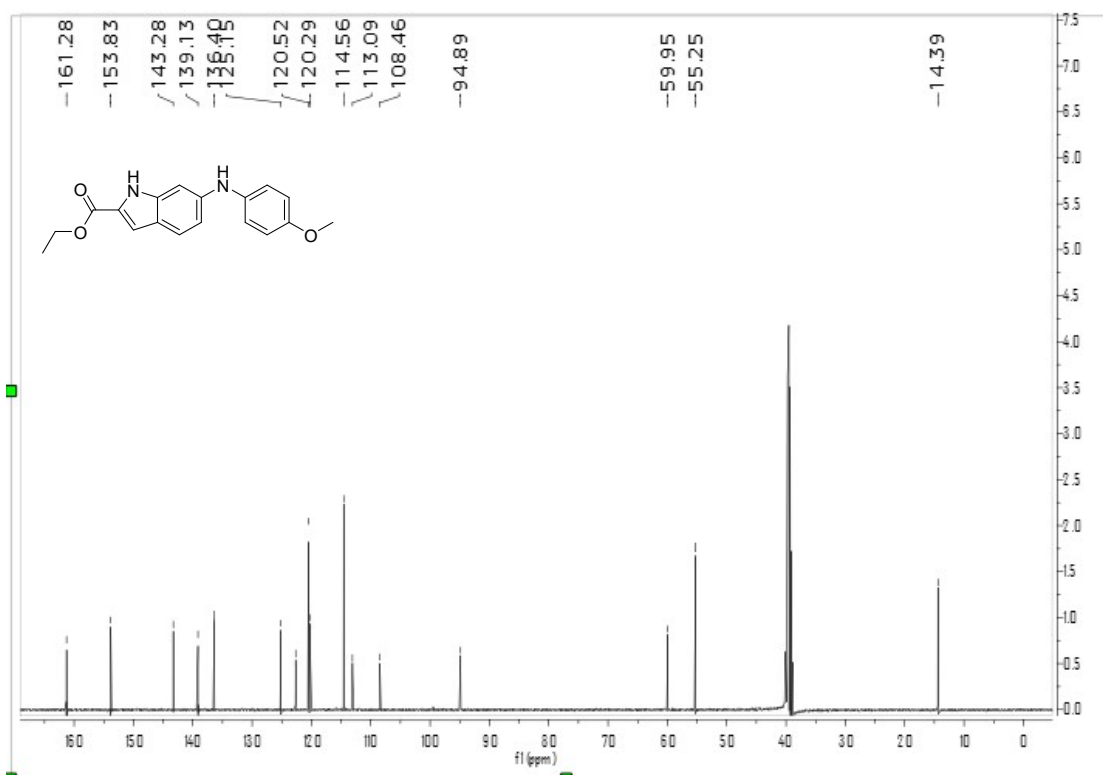
¹H NMR spectrum of **16b**



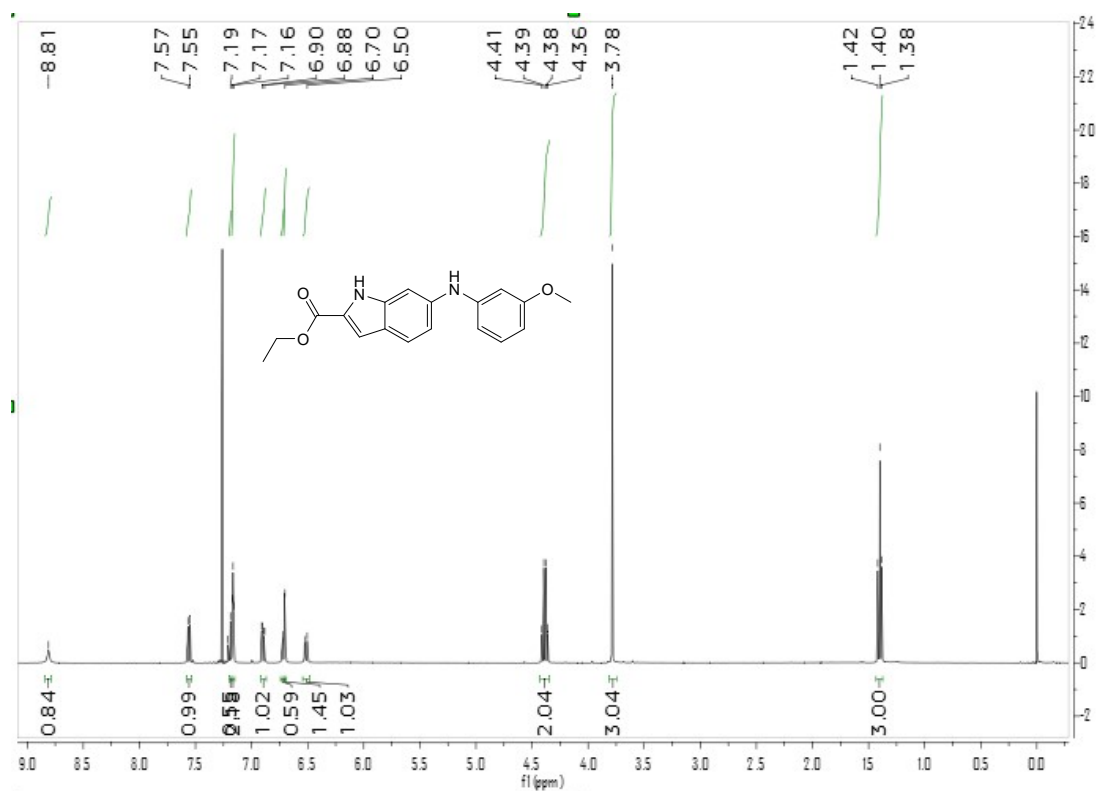
¹³C NMR spectrum of **16b**



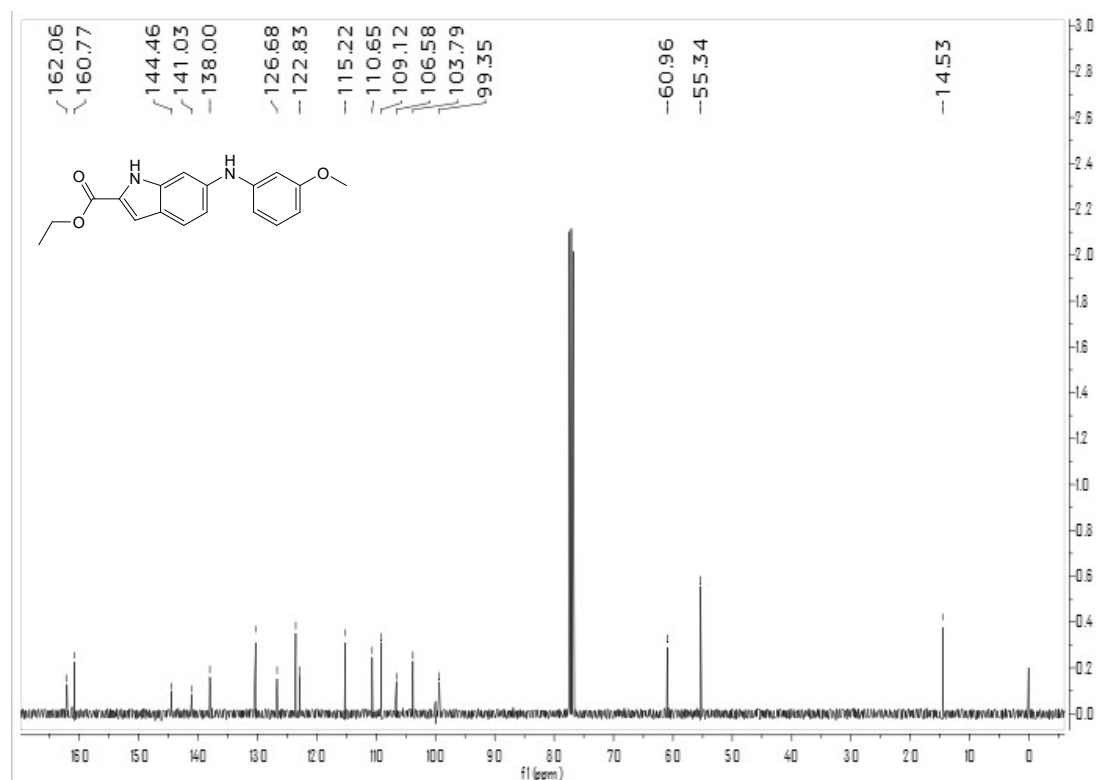
¹H NMR spectrum of 16c



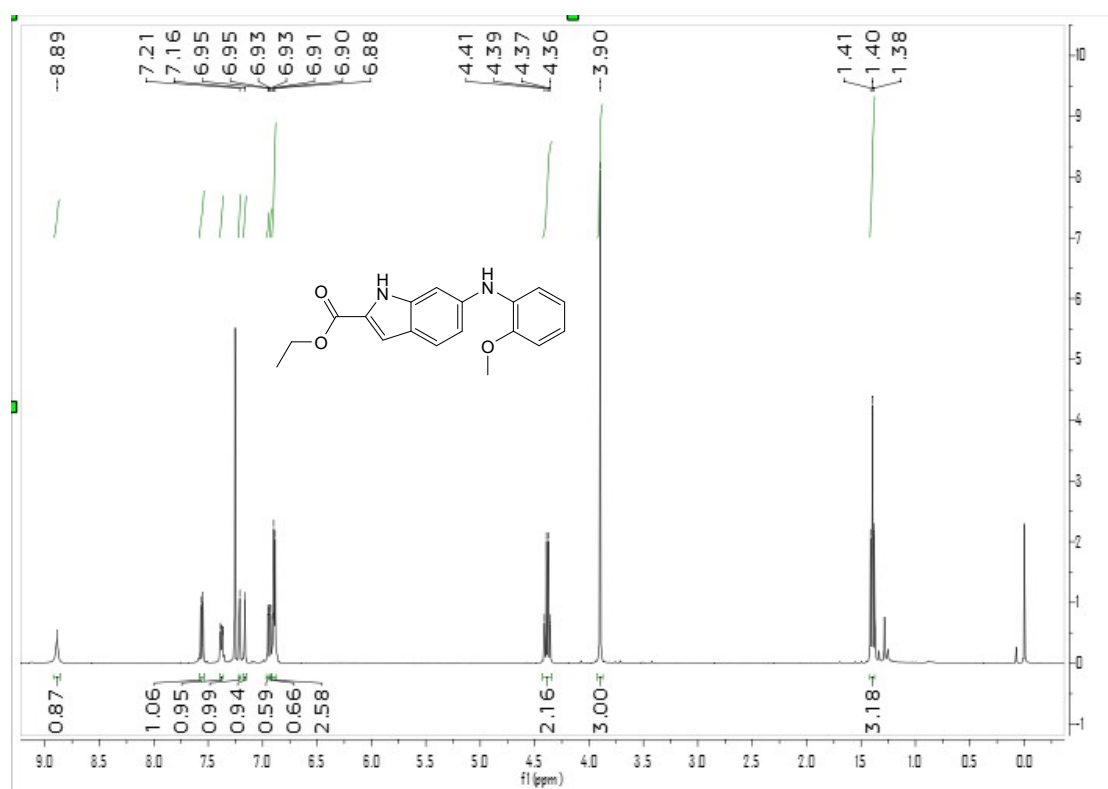
¹³C NMR spectrum of 16c



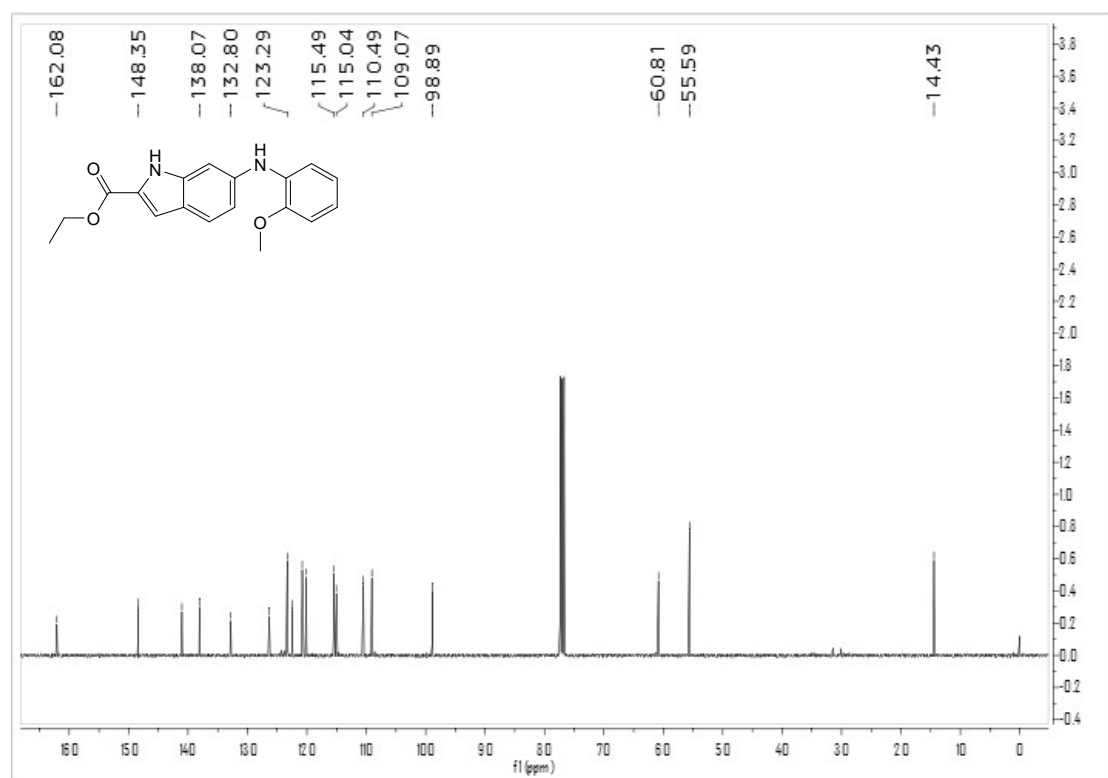
¹H NMR spectrum of 16d



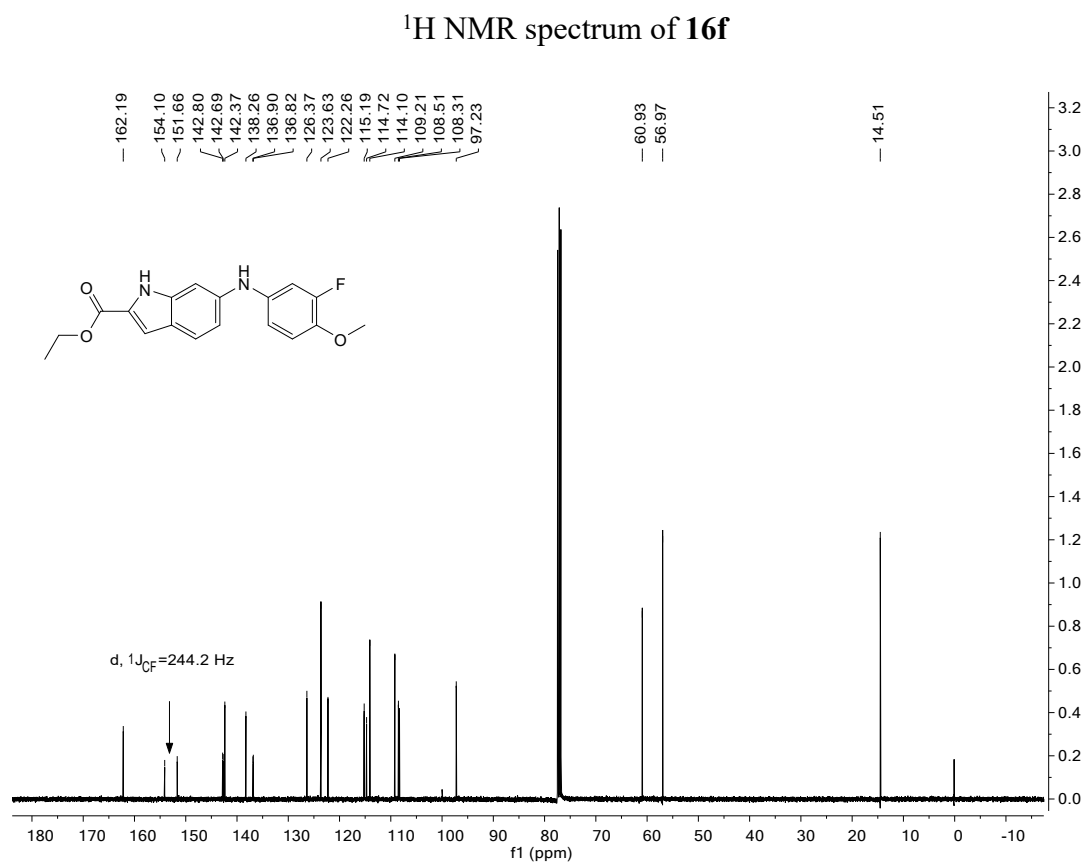
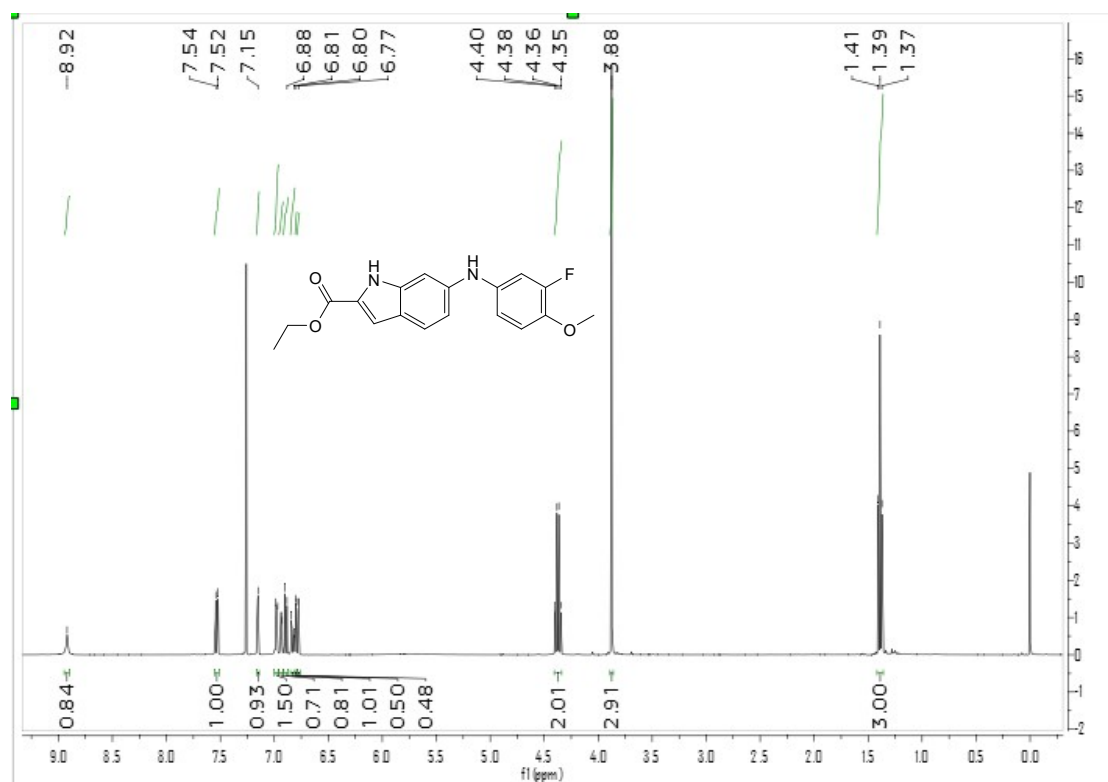
¹³C NMR spectrum of 16d

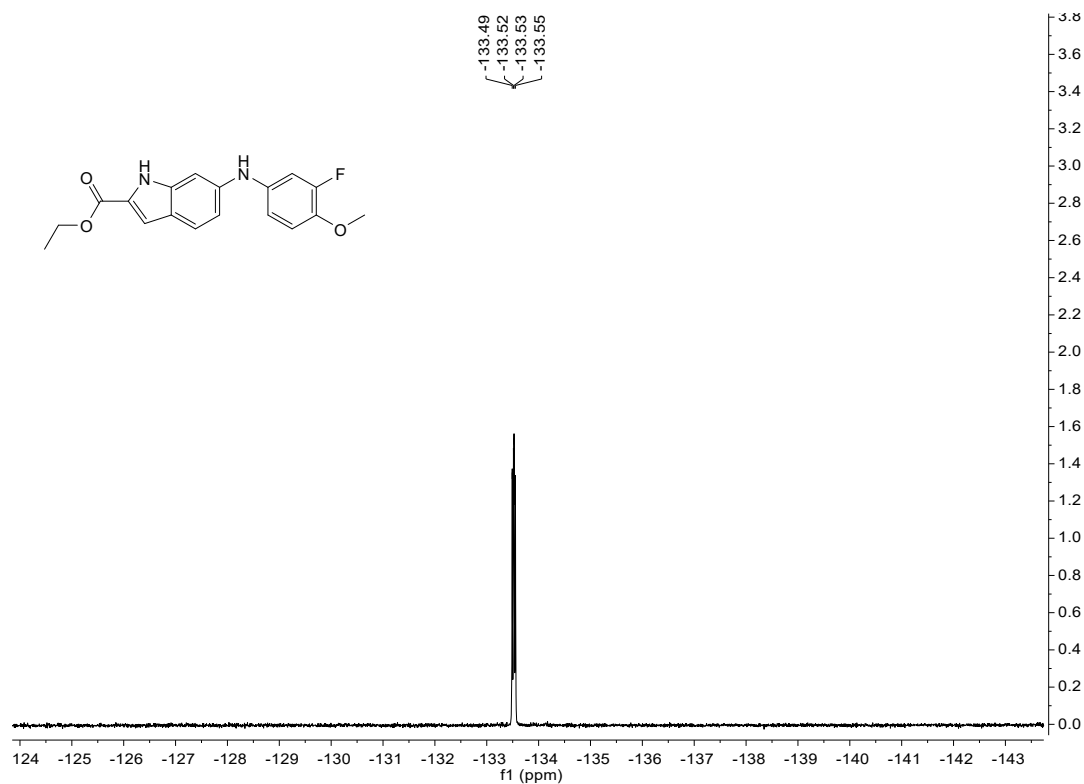


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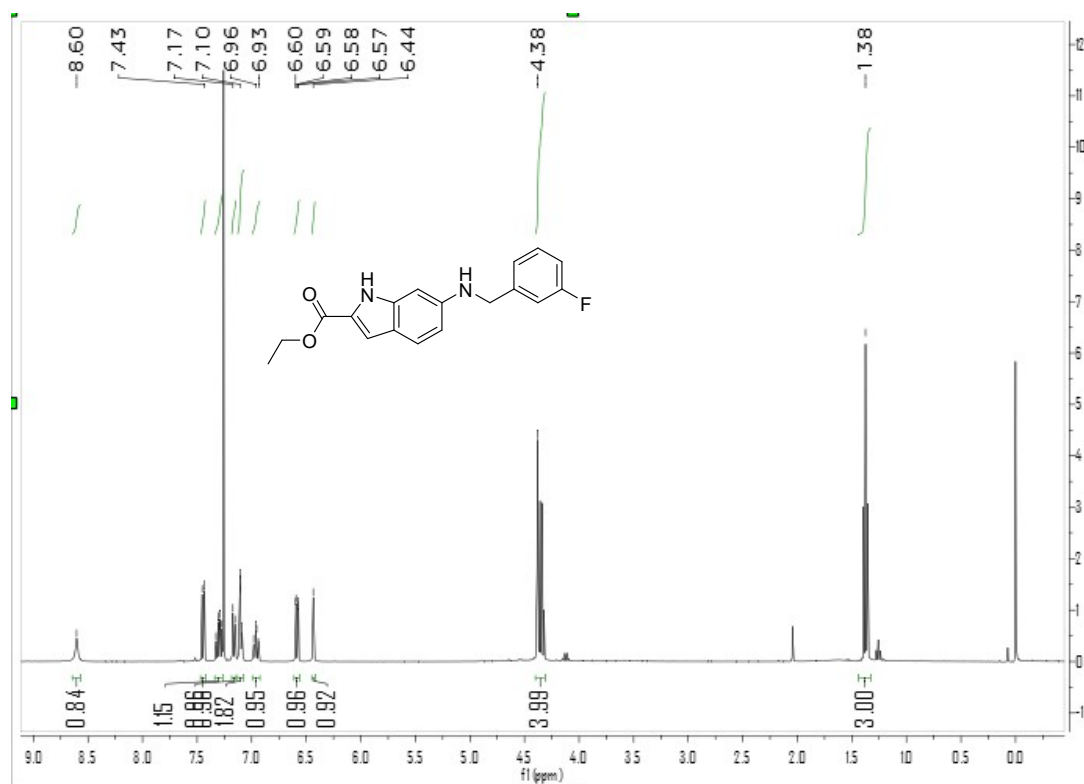


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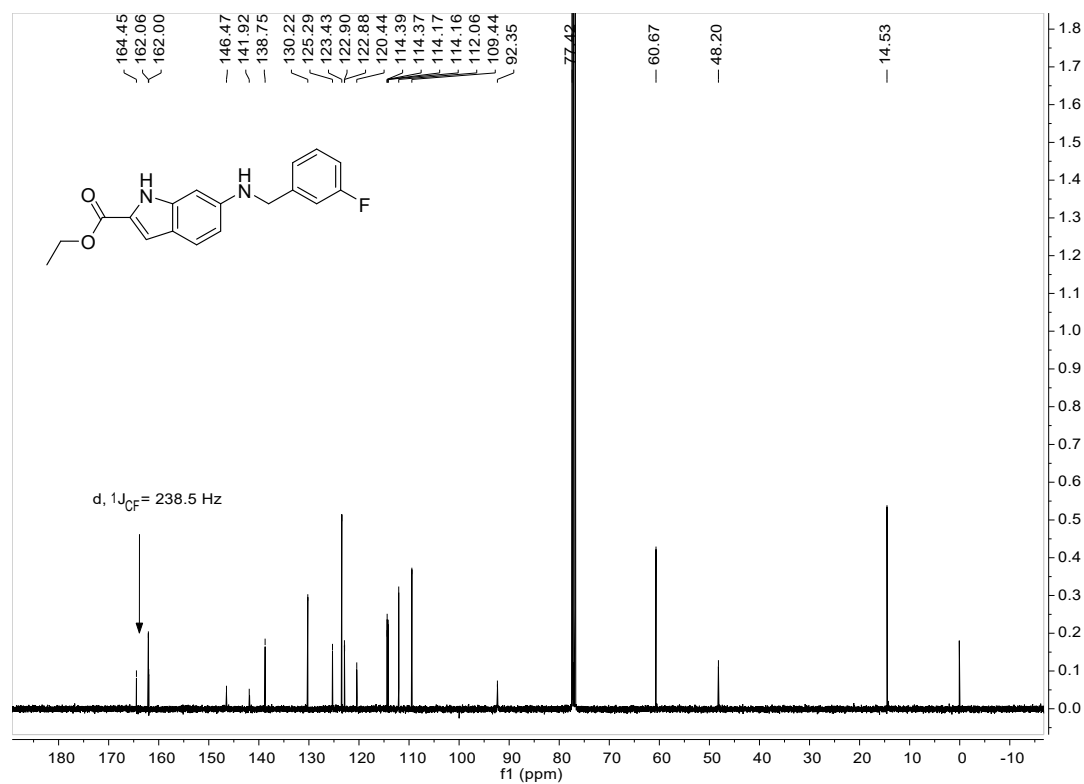




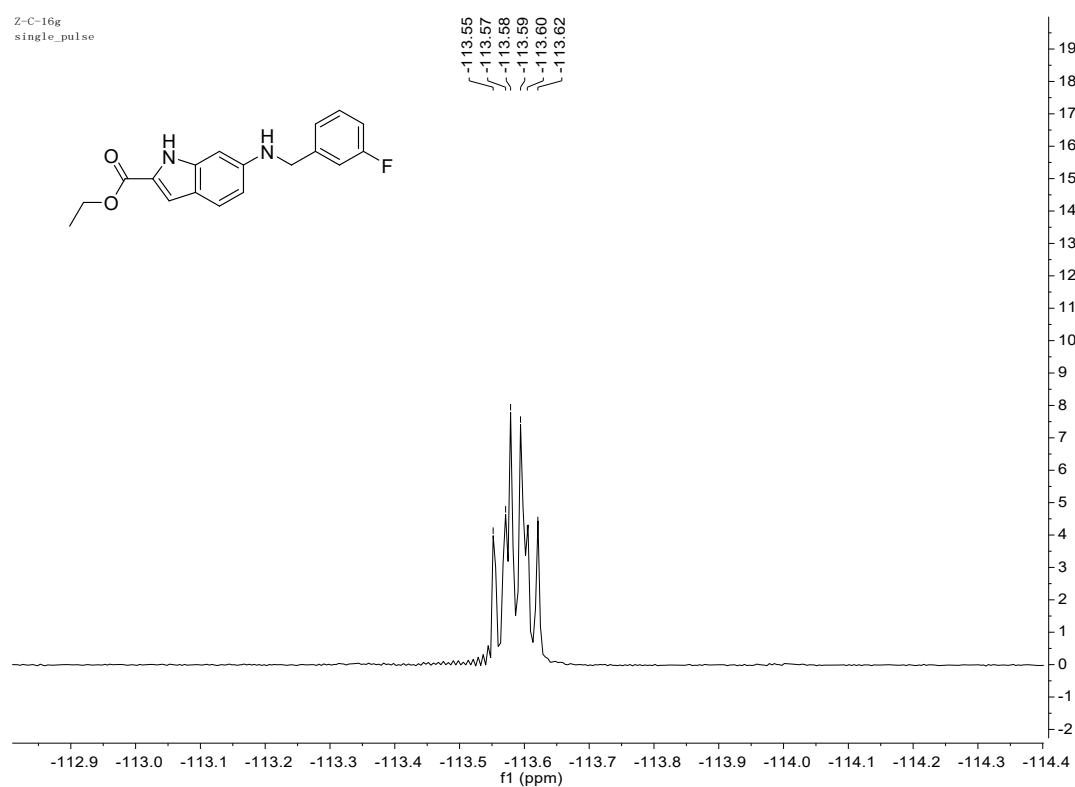
^{19}F NMR spectrum of **16f**



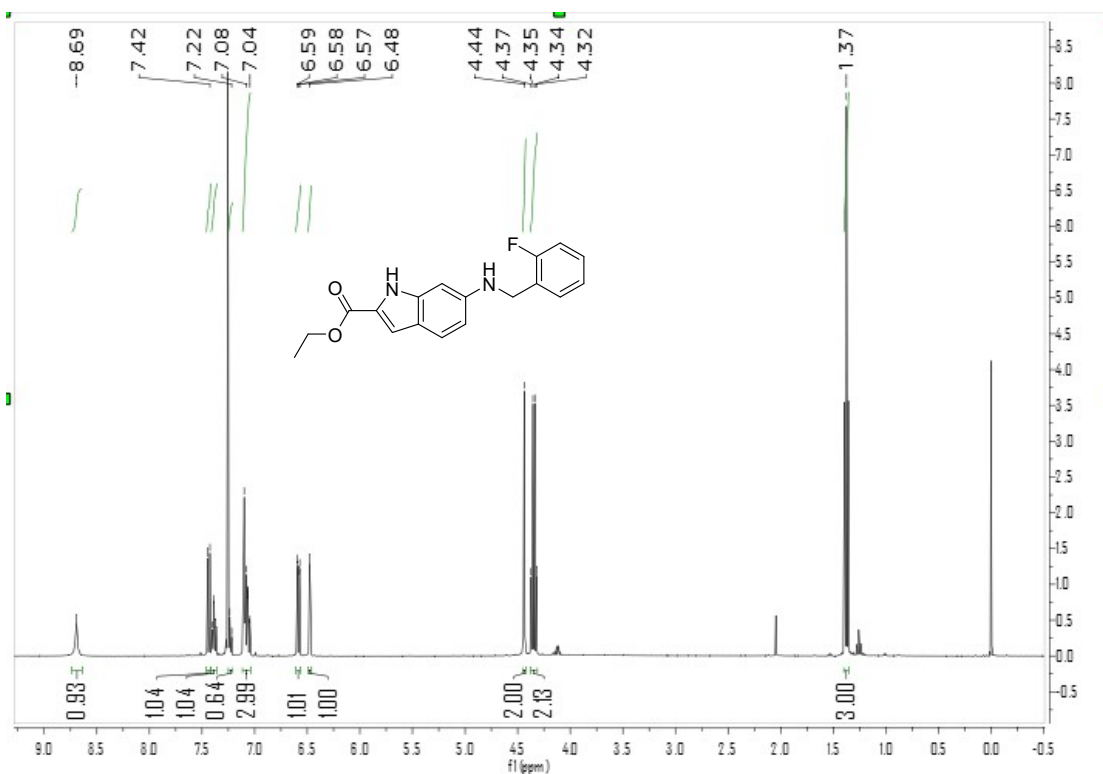
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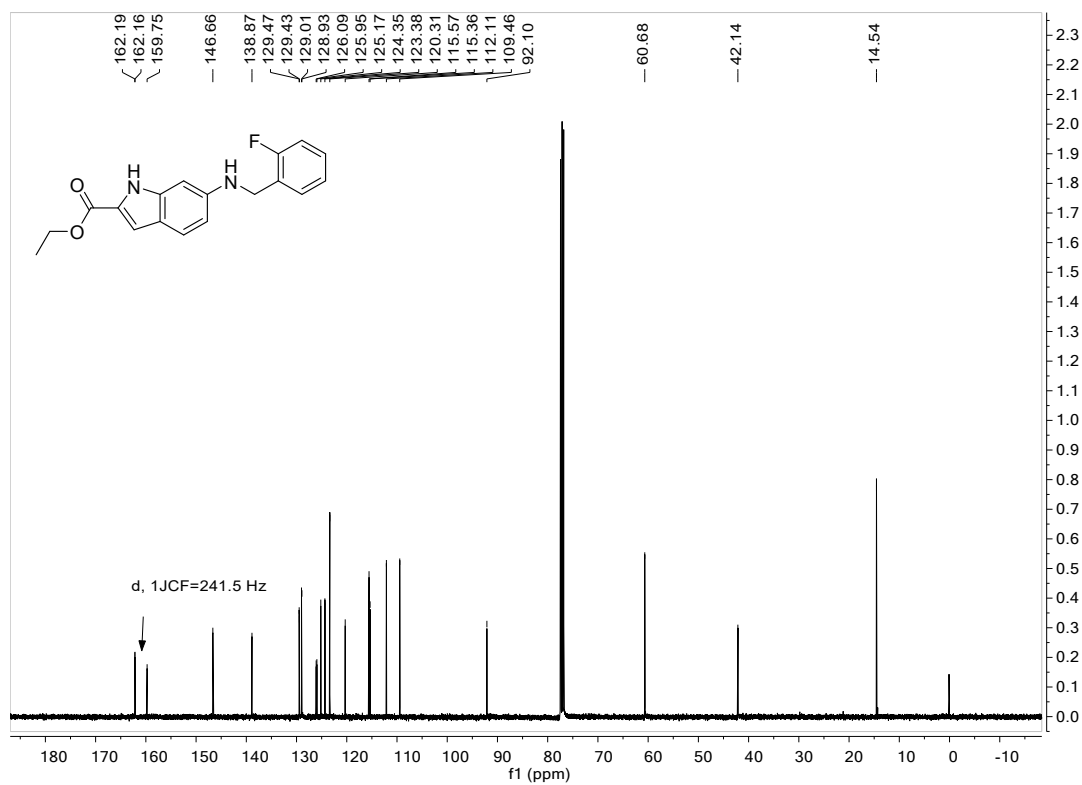
^{13}C NMR spectrum of **16g**



^{19}F NMR spectrum of **16g**



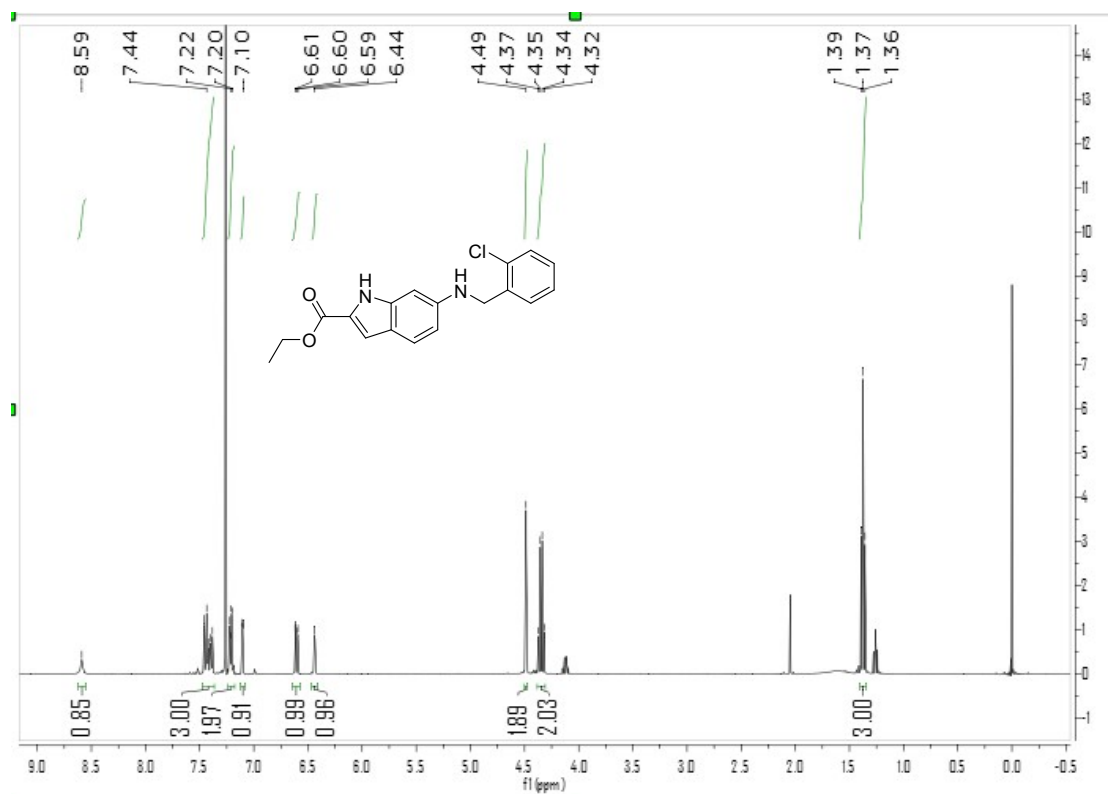
¹H NMR spectrum of **16h**



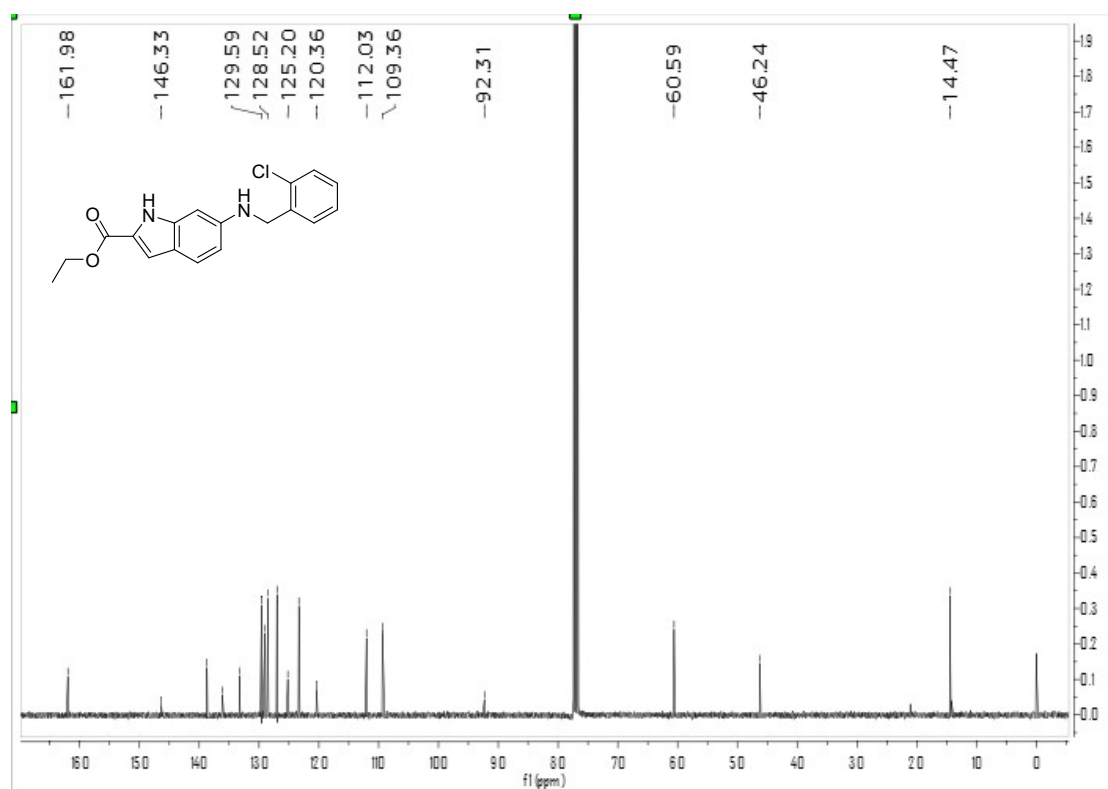
¹³C NMR spectrum of **16h**



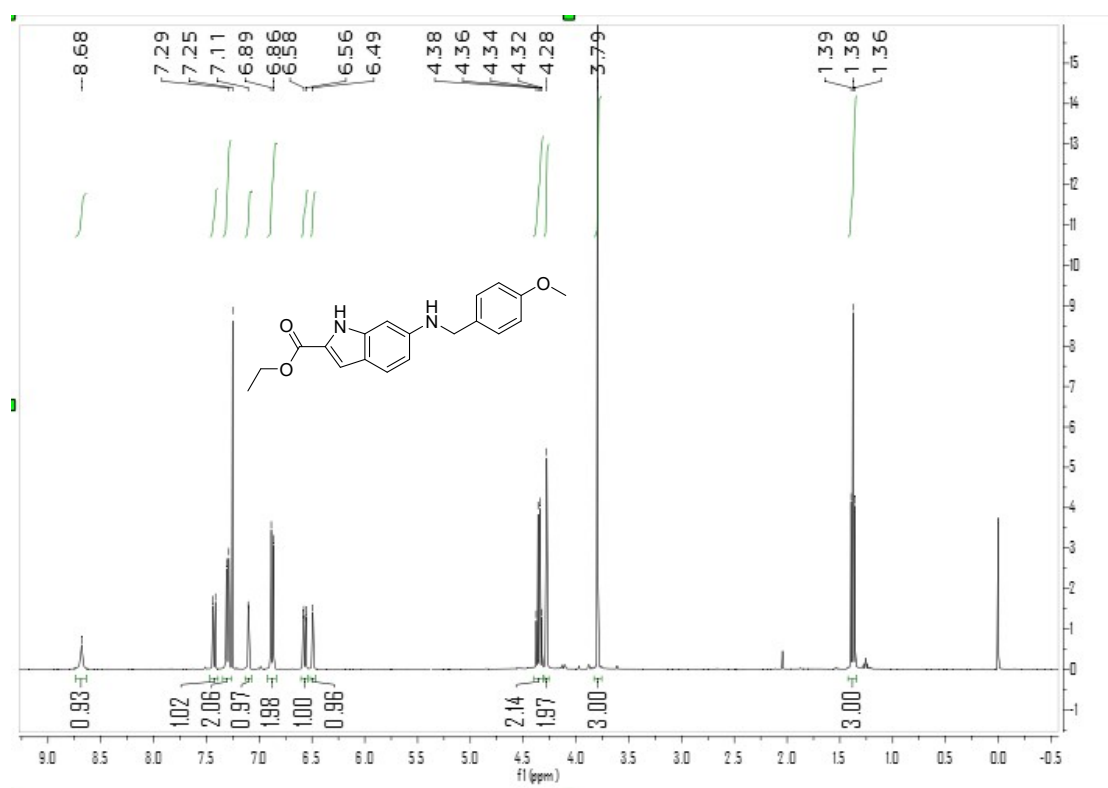
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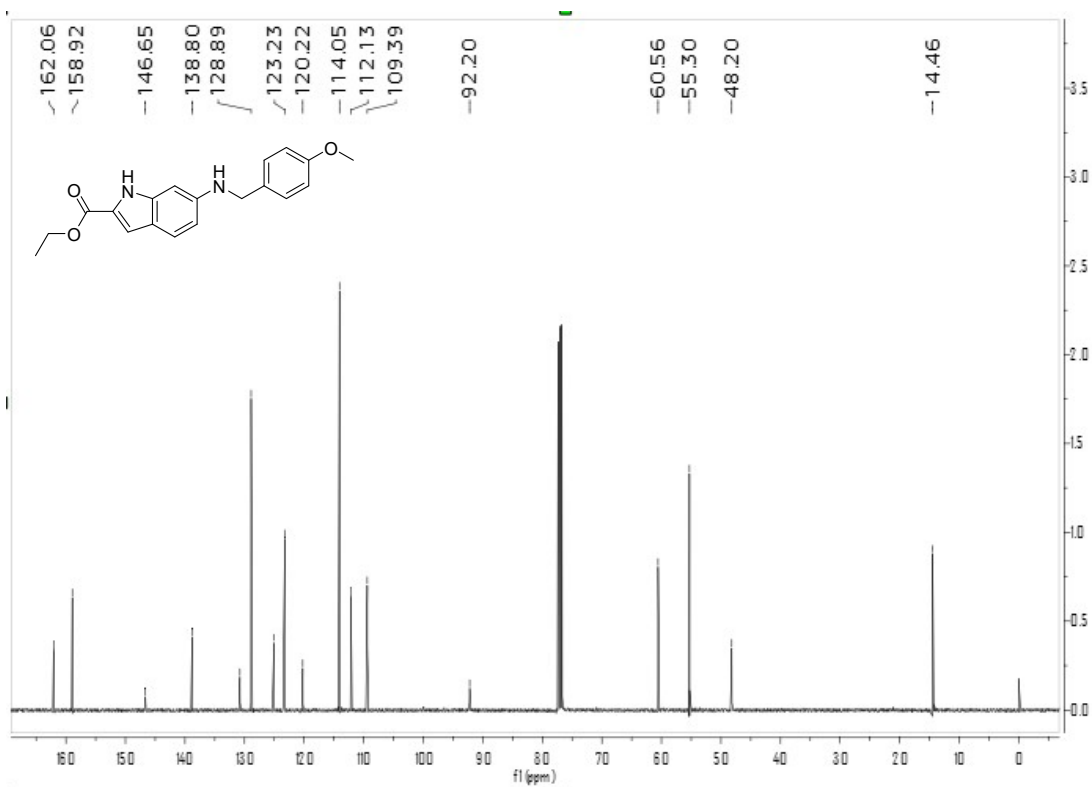
^1H NMR spectrum of **16i**



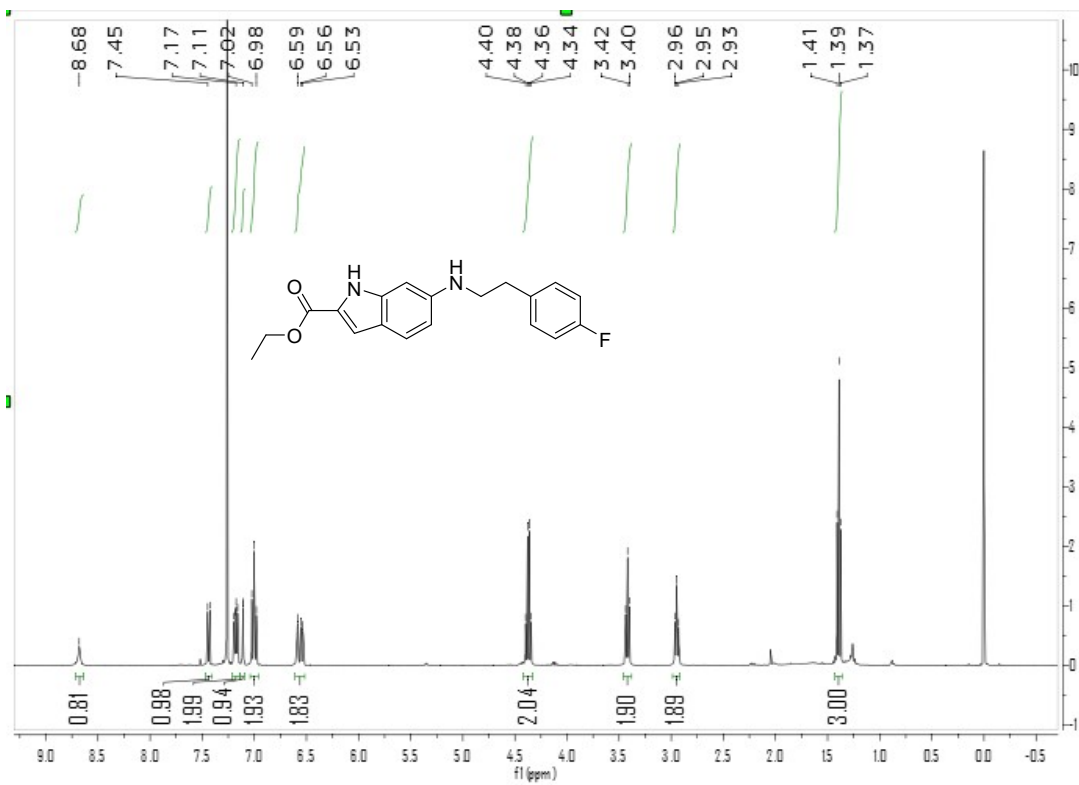
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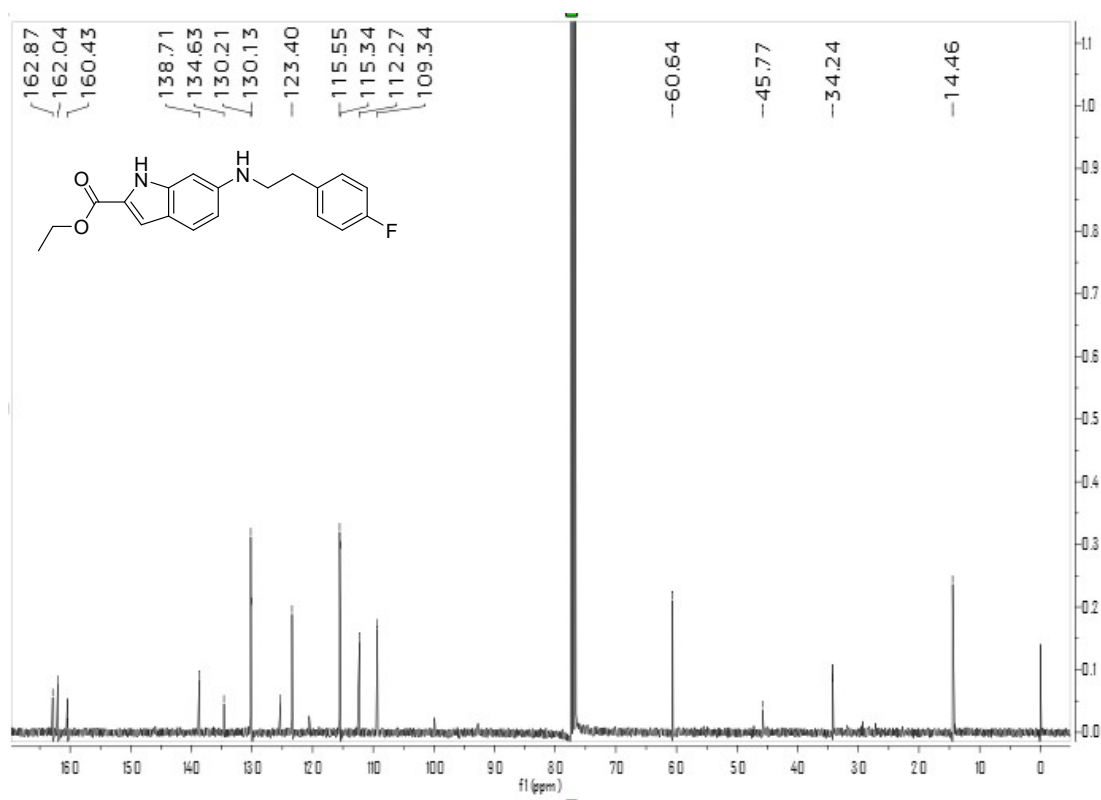
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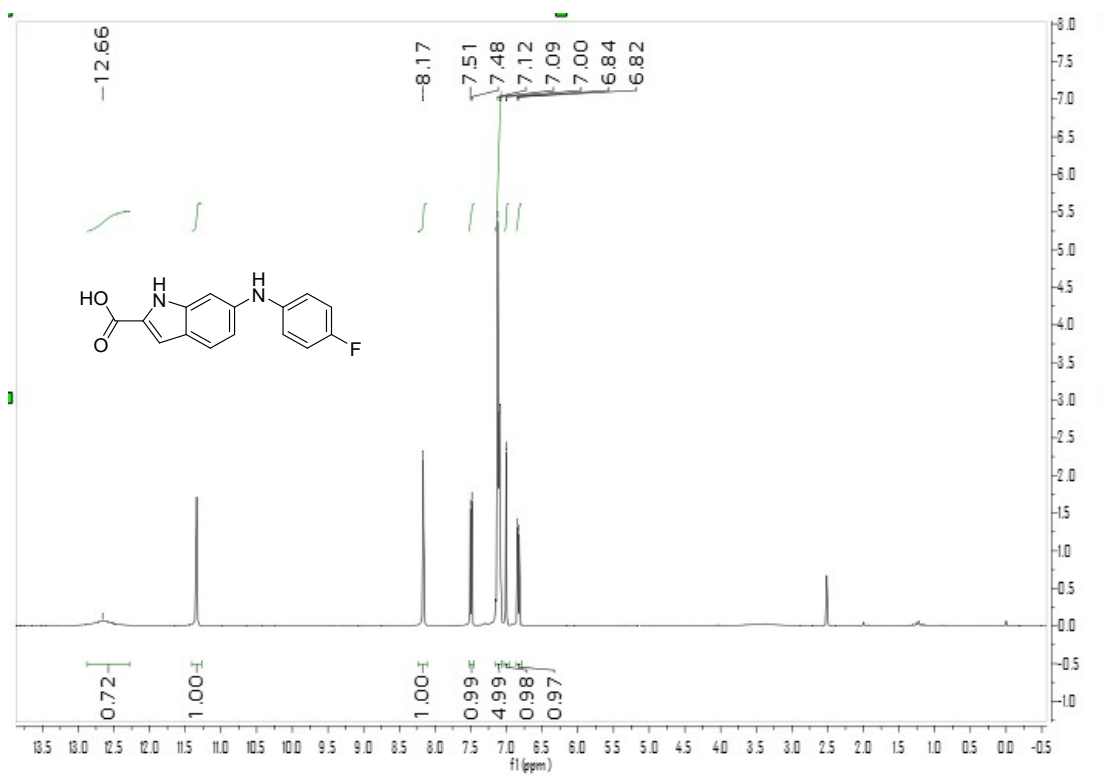
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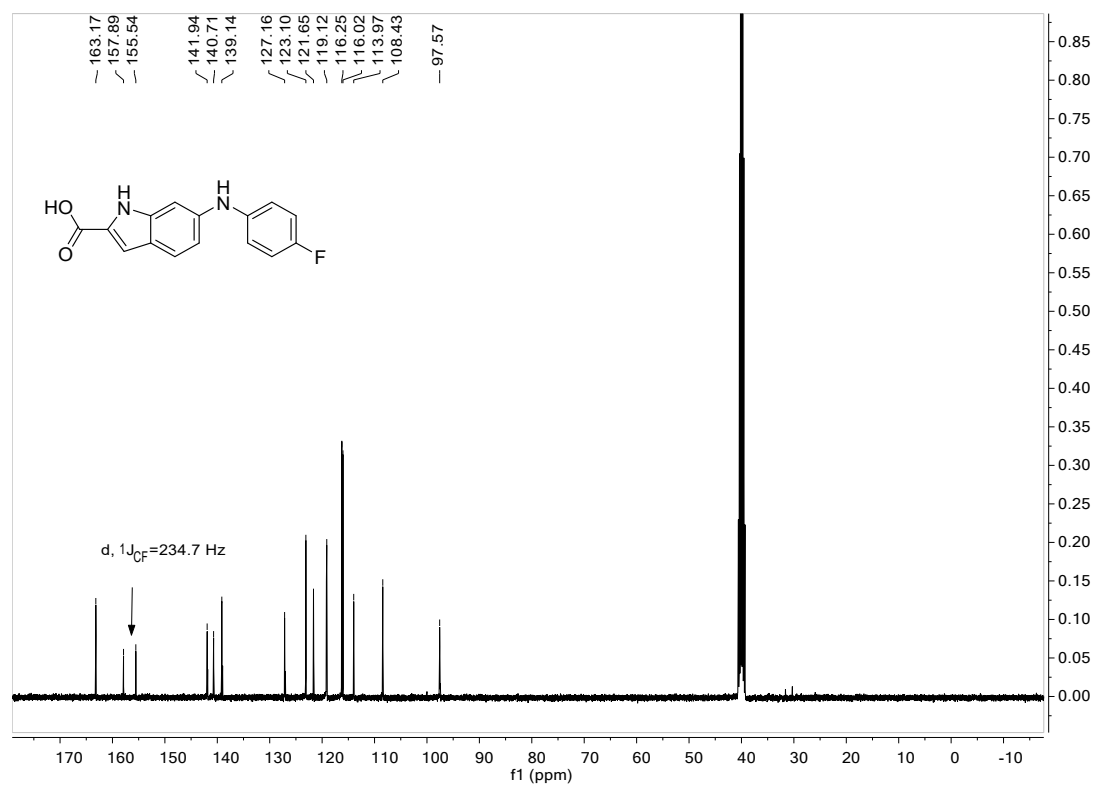
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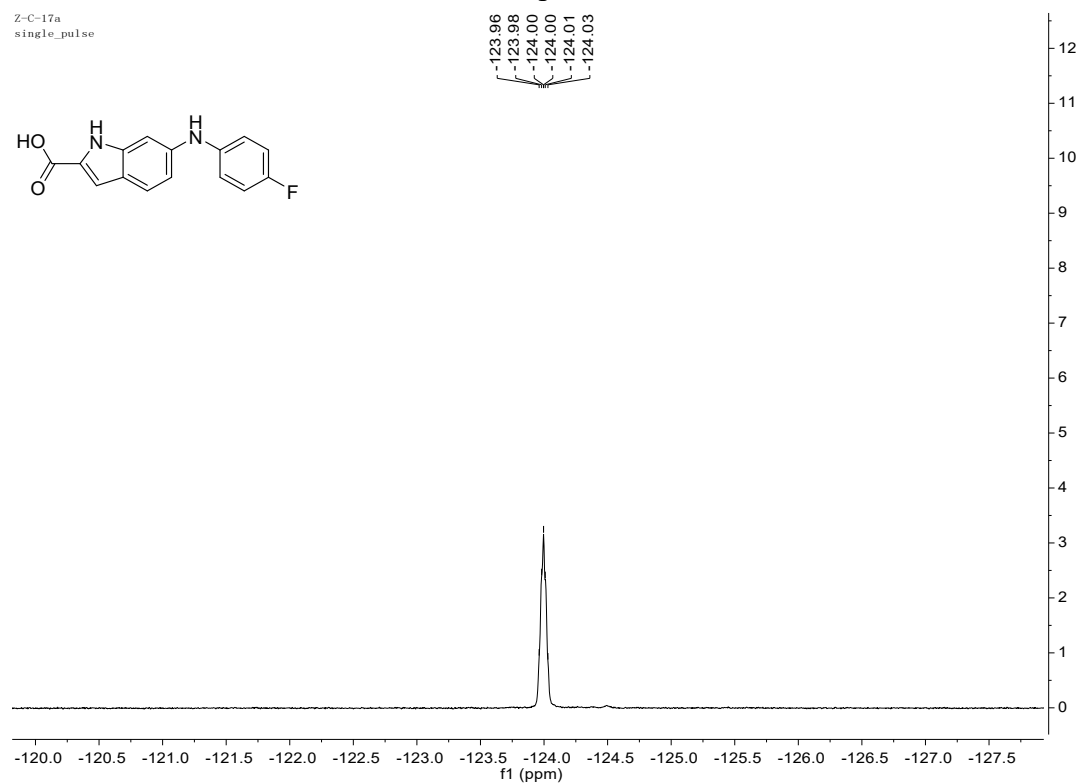
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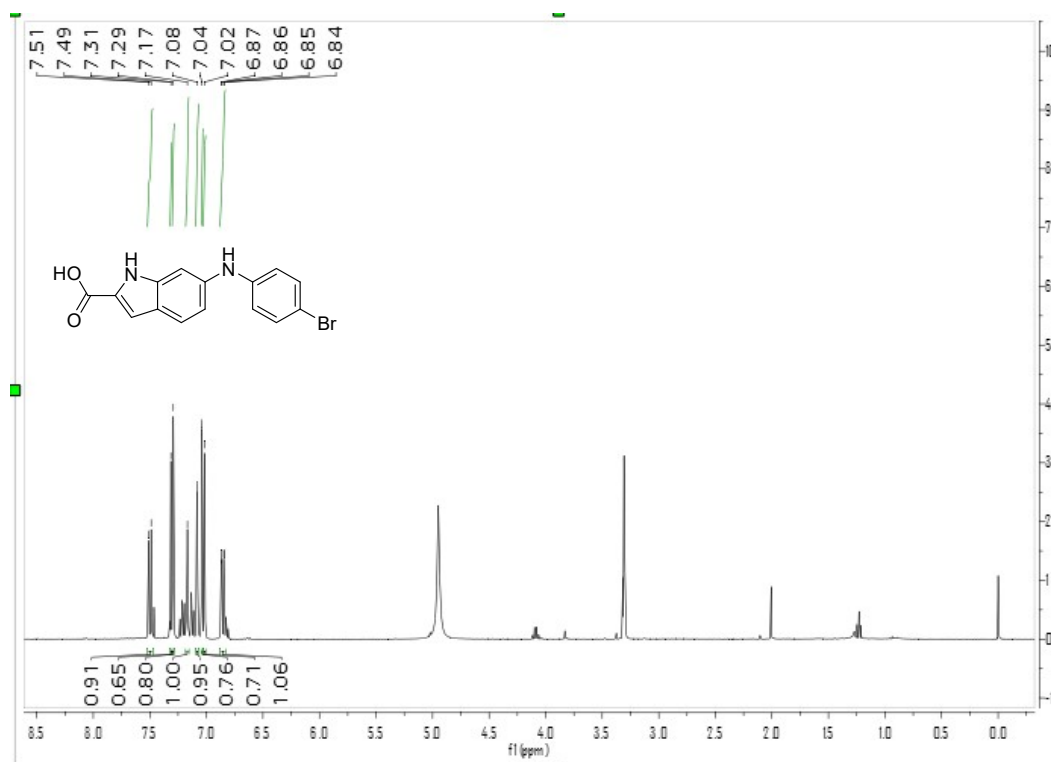
¹H NMR spectrum of **17a**



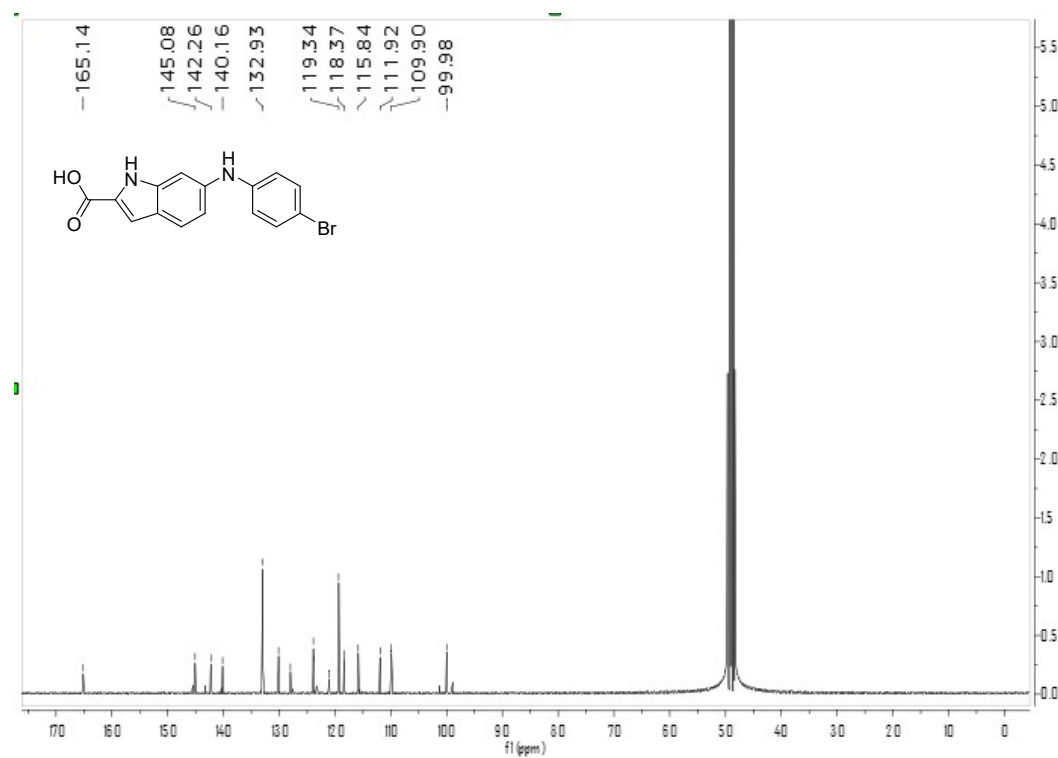
^{13}C NMR spectrum of **17a**



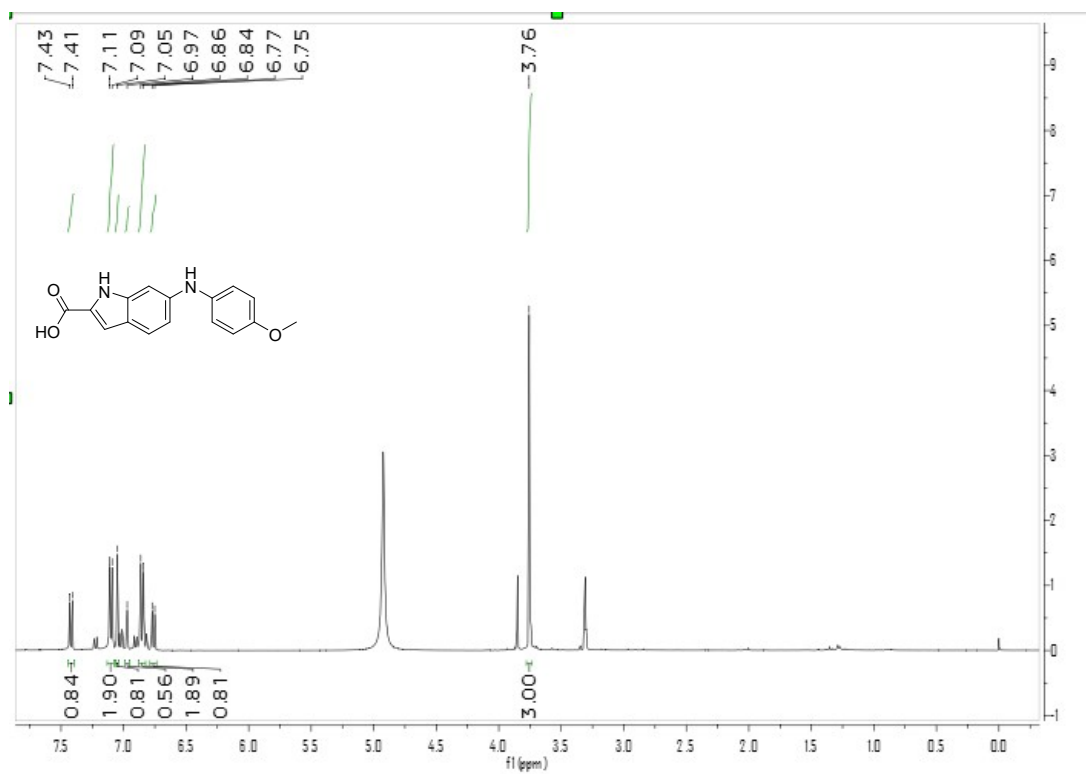
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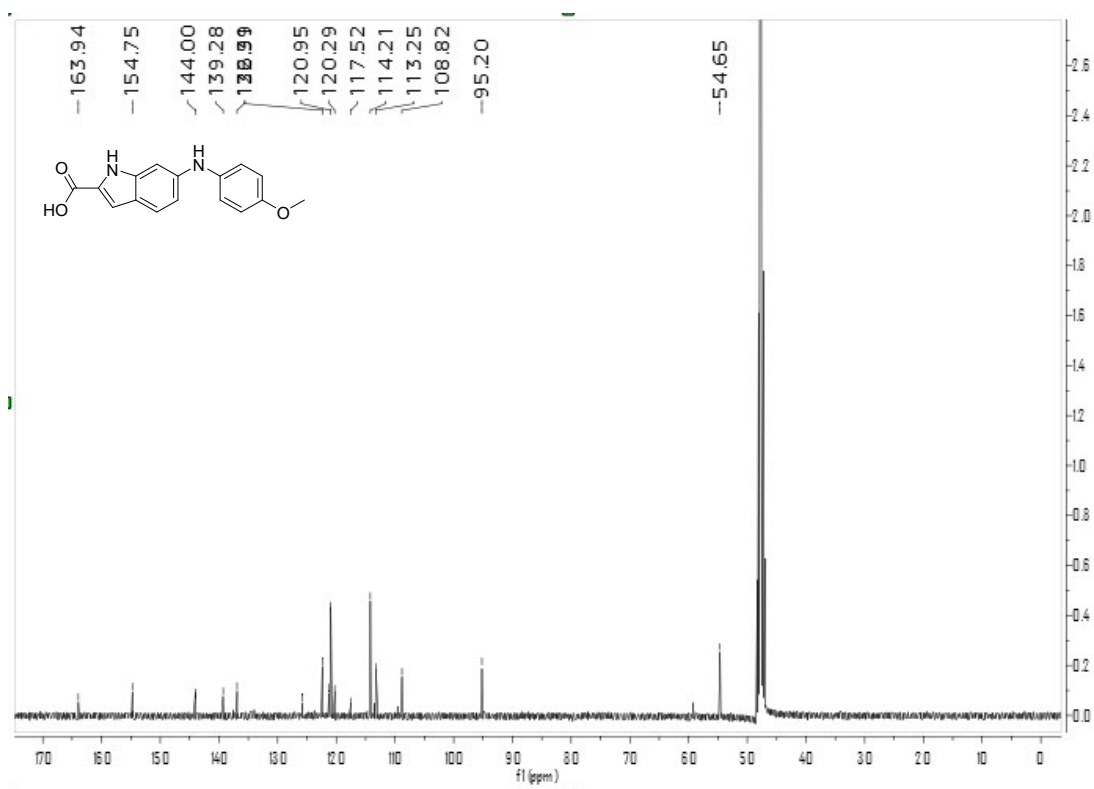
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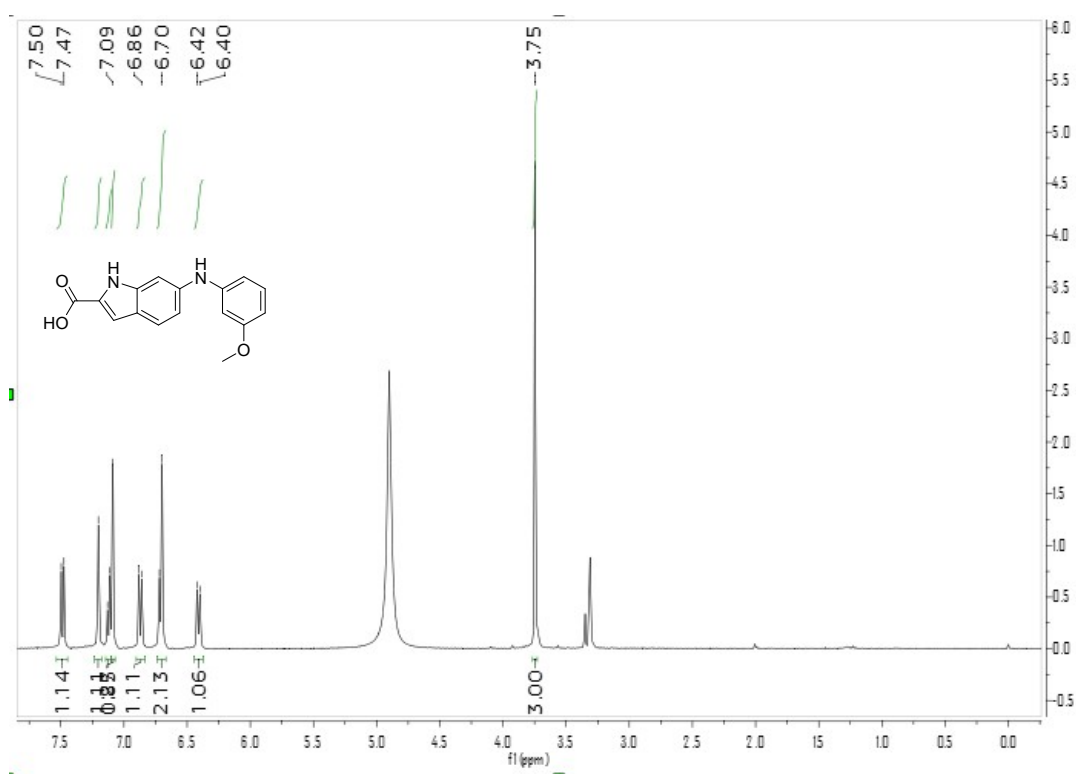
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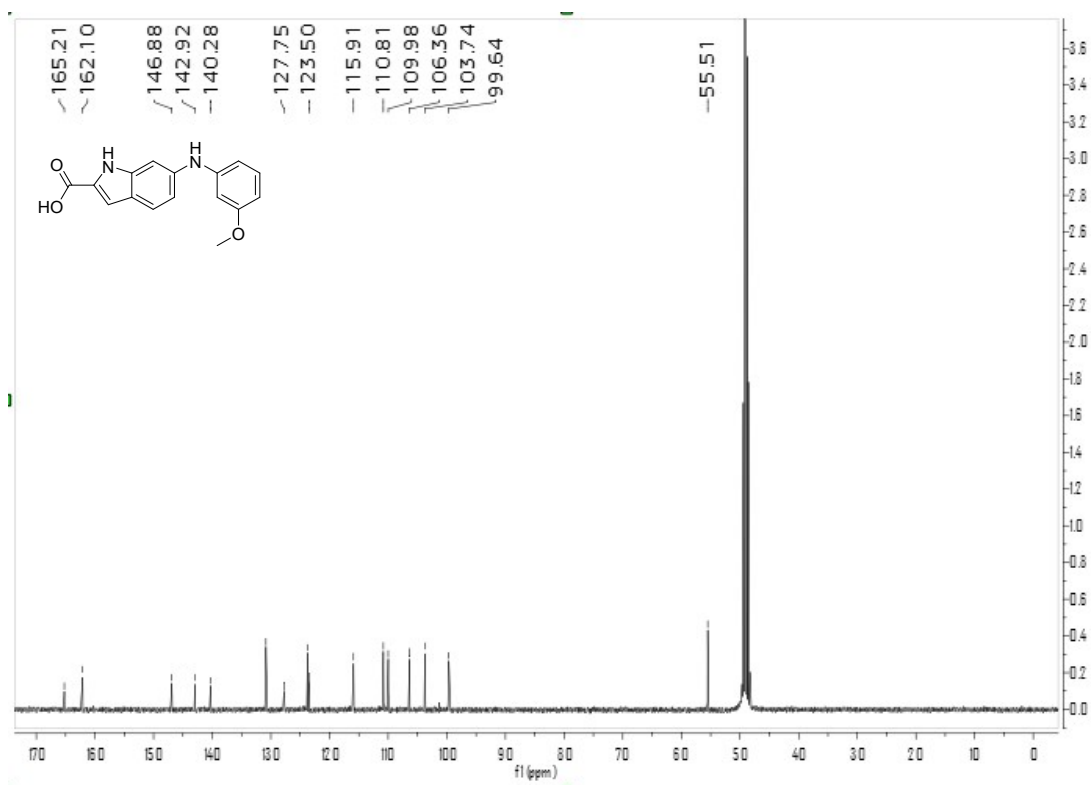
¹H NMR spectrum of **17c**



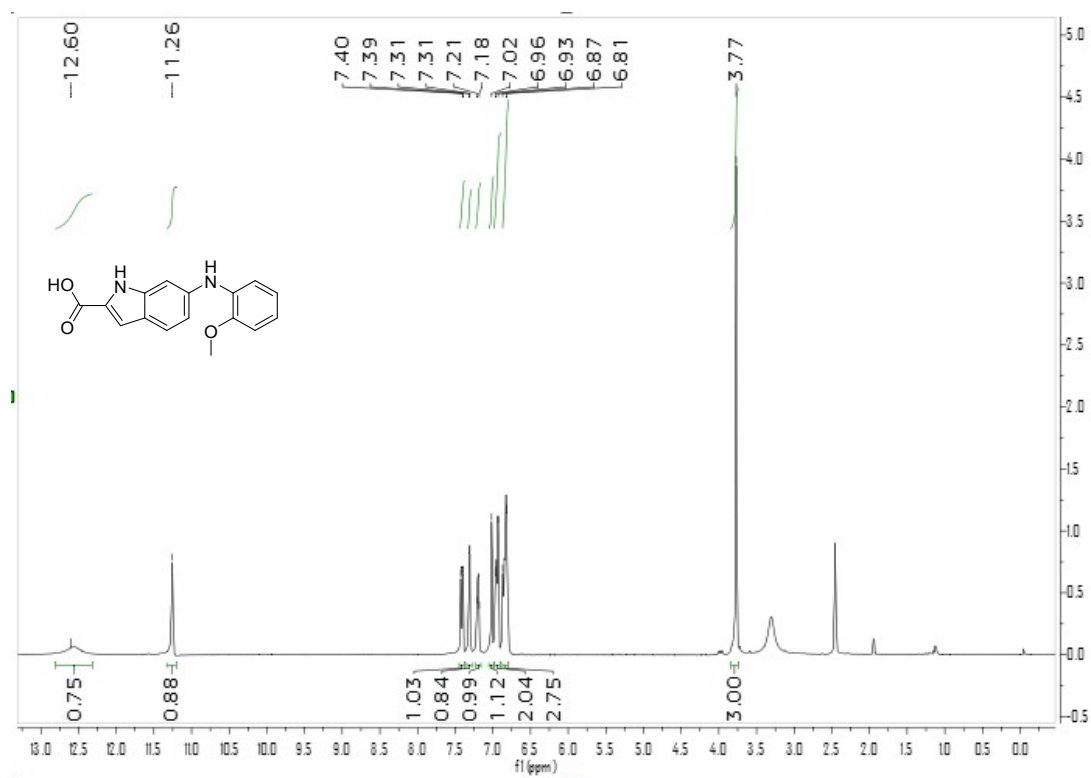
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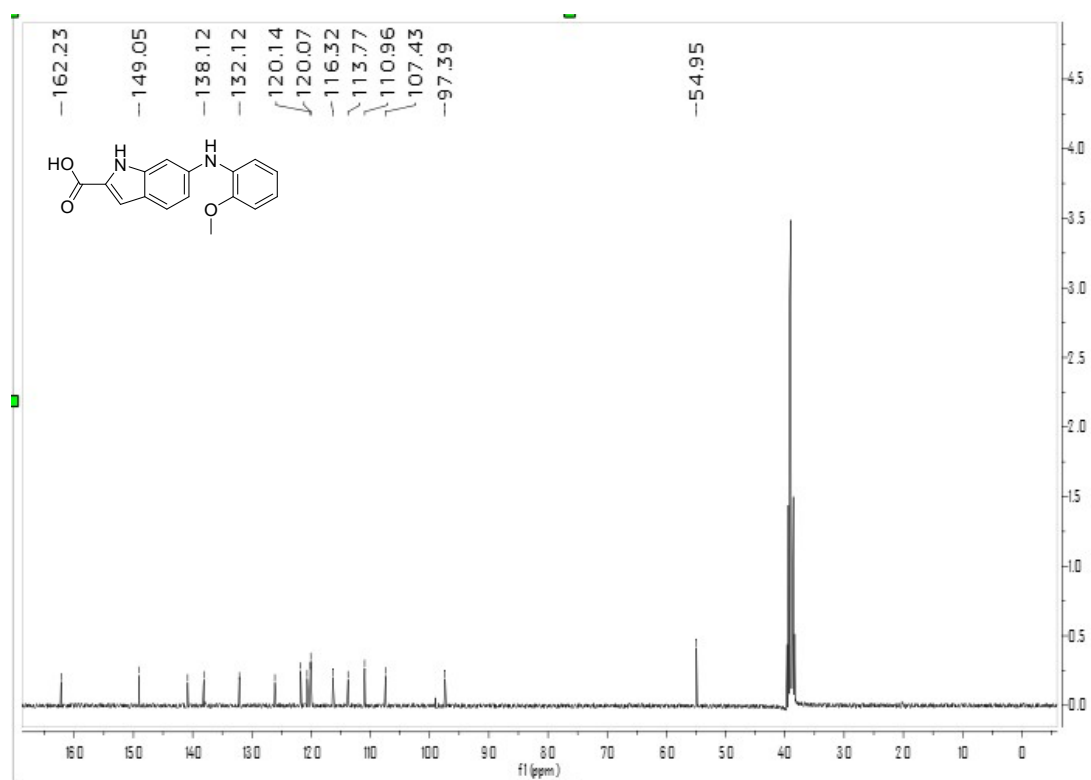
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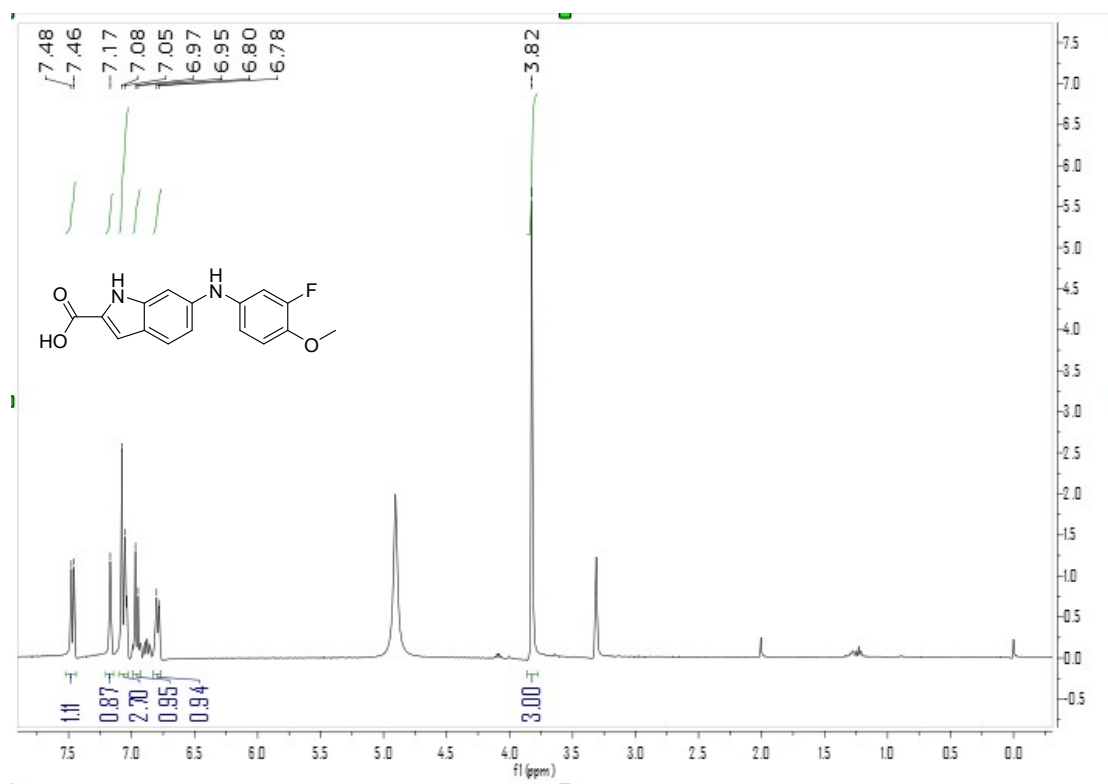
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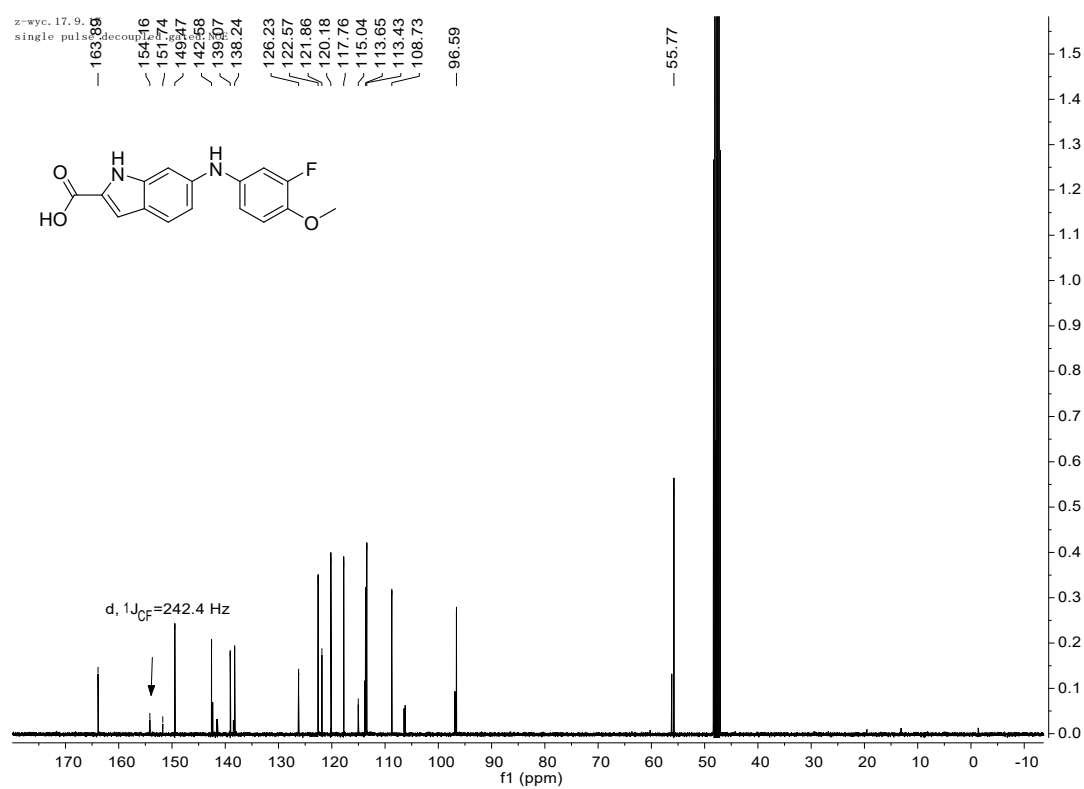
¹H NMR spectrum of **17e**



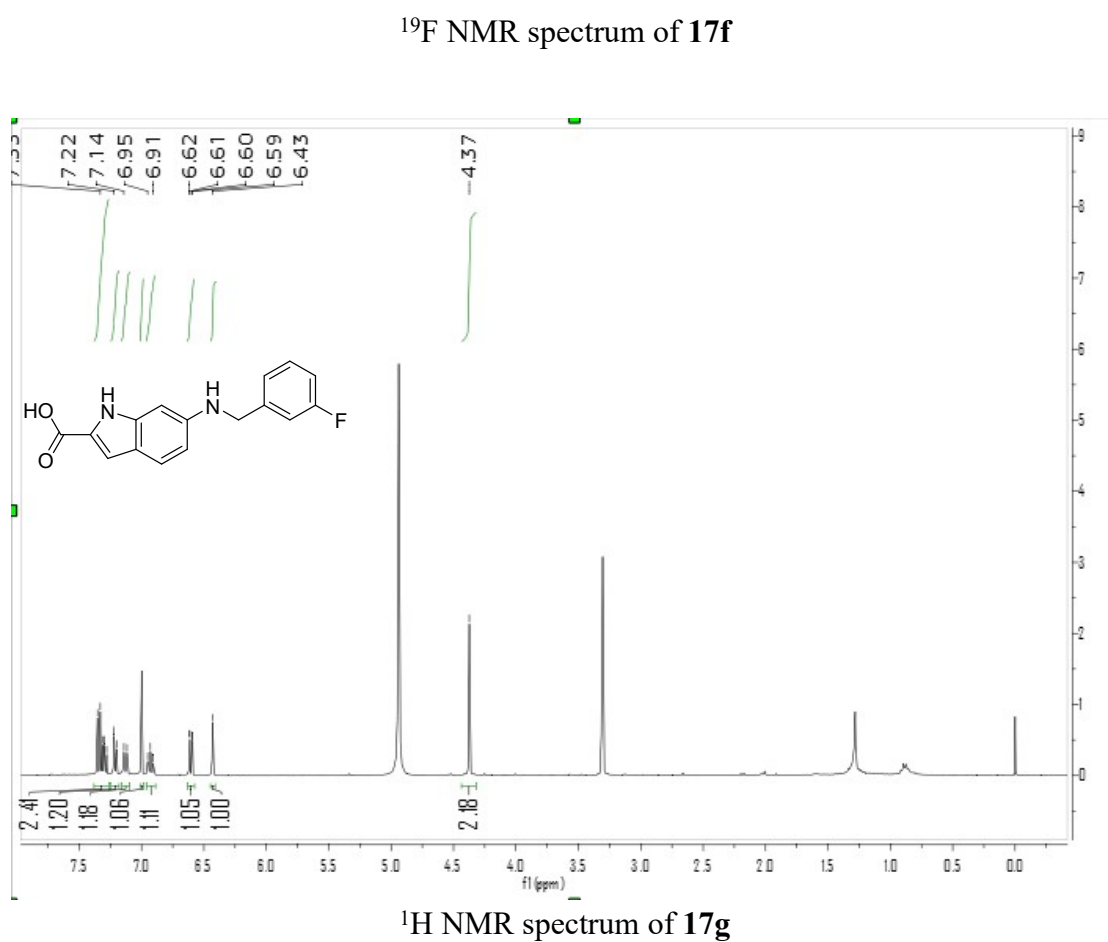
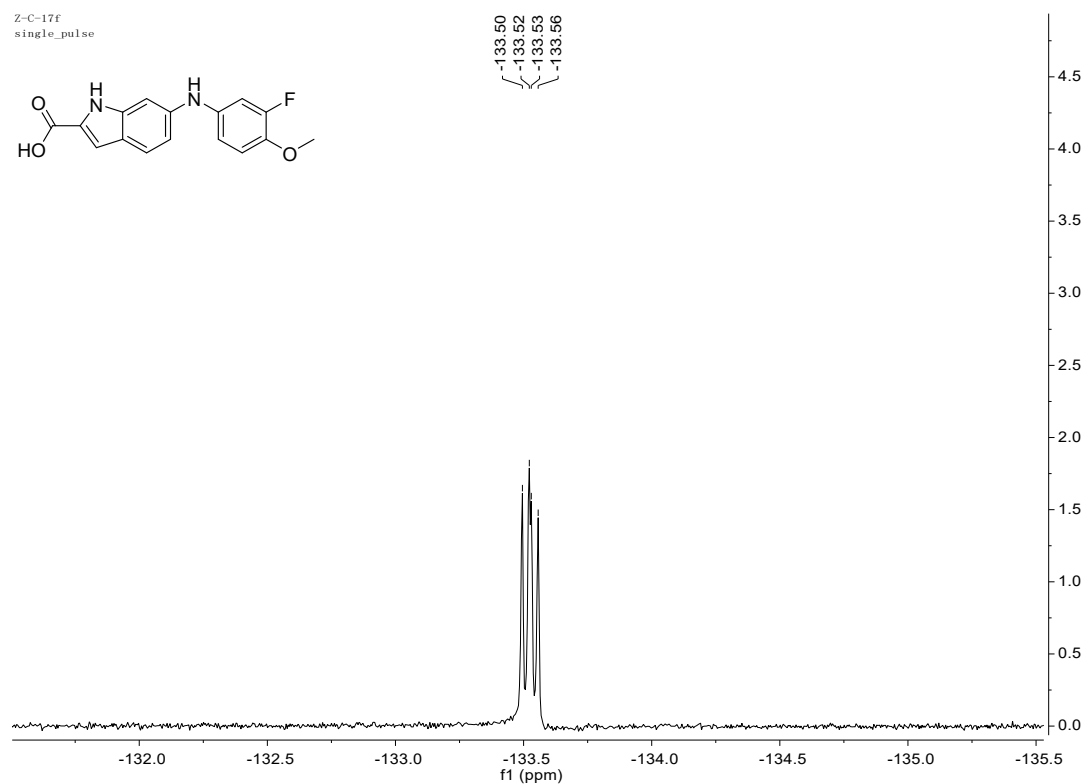
¹³C NMR spectrum of **17e**

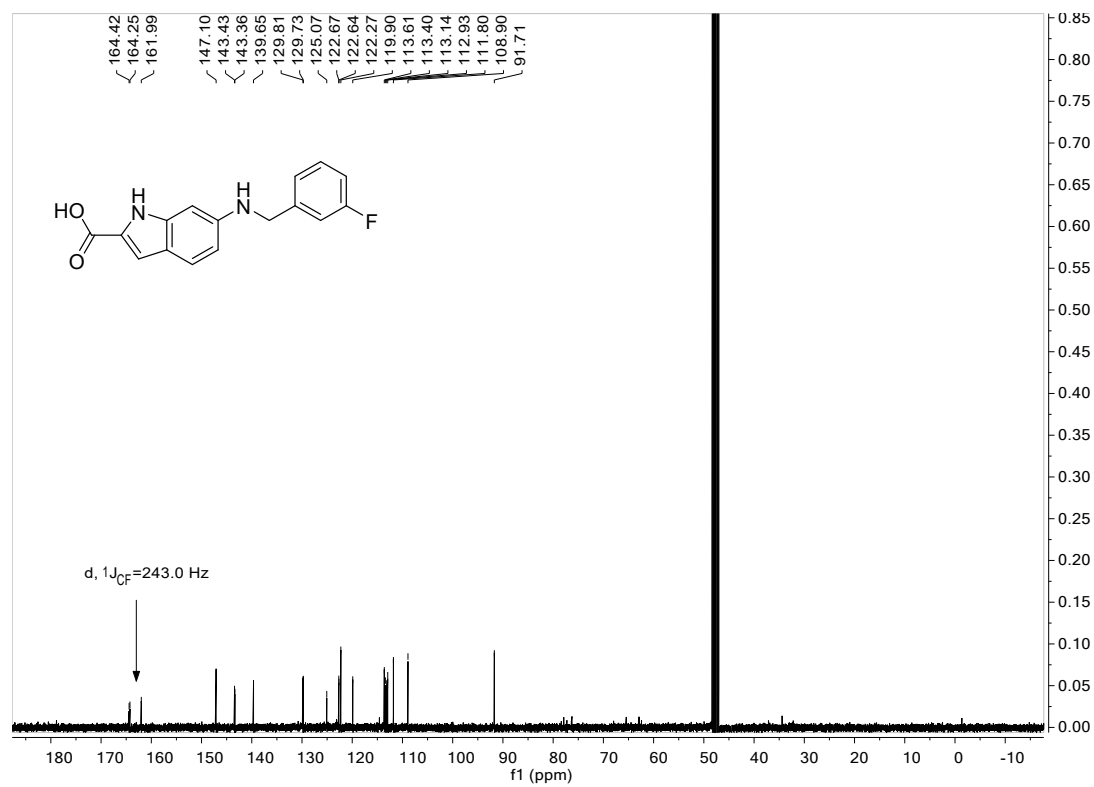


¹H NMR spectrum of **17f**

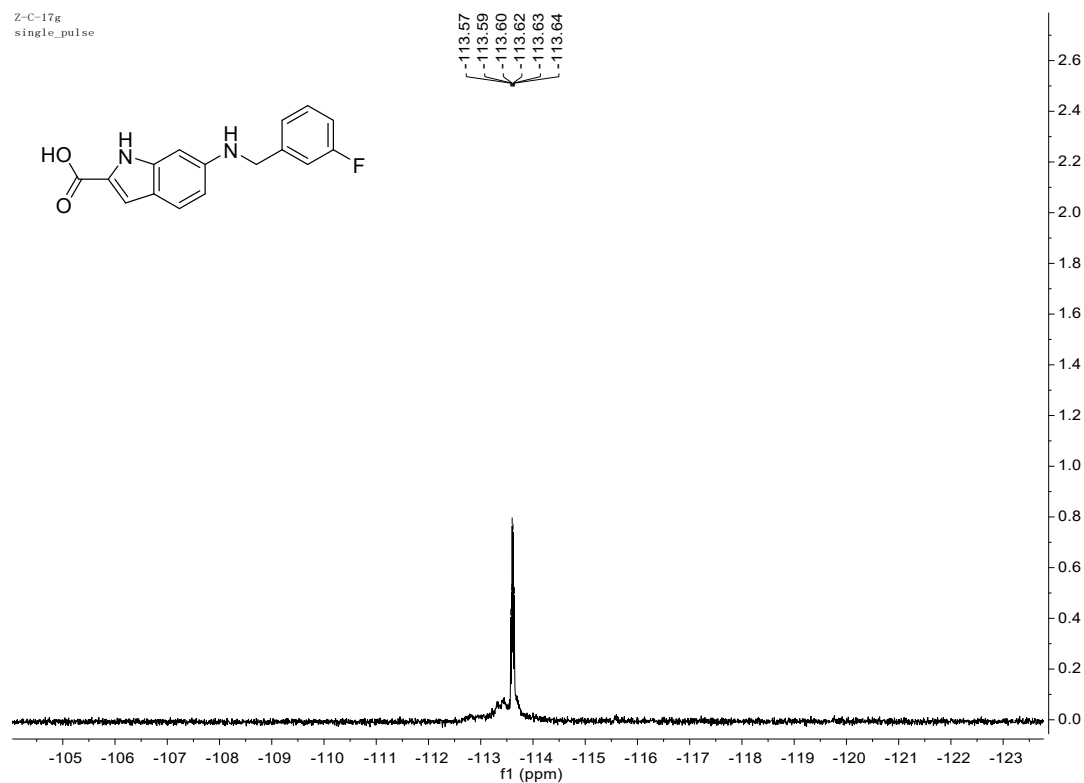


¹³C NMR spectrum of **17f**





^{13}C NMR spectrum of **17g**



^{17}F NMR spectrum of **17g**