

Synthesis and *in Vitro* Biological Evaluation of Novel Diaminothiophene Scaffold as Antitumor and Anti-Influenza Virus Agents. Part 2

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¹H NMR and ¹³C NMR Spectra for compounds **2j**, **3a-p**, **4a-d** and **5a-c**

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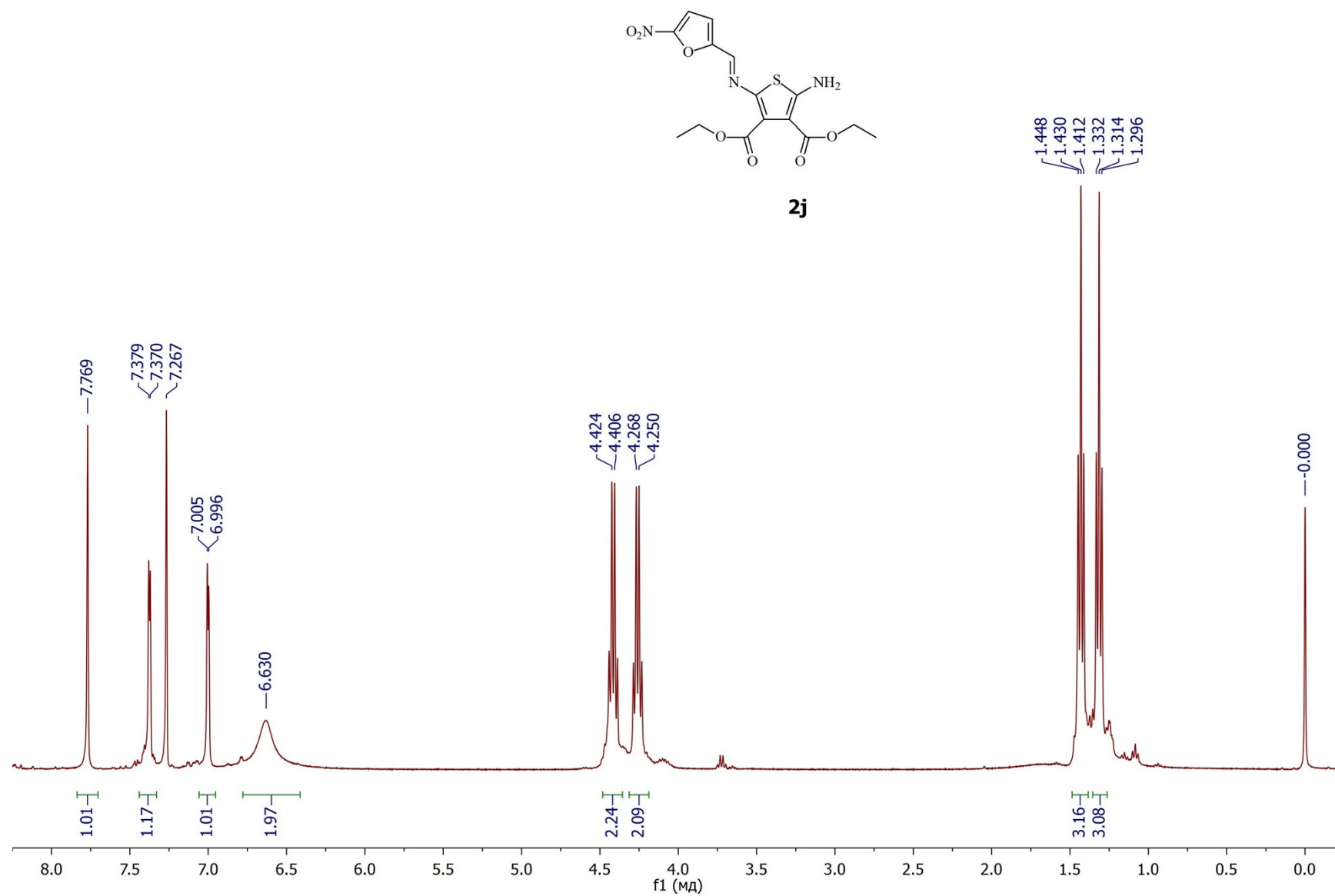


Figure SM-1. ¹H NMR spectrum of 2j

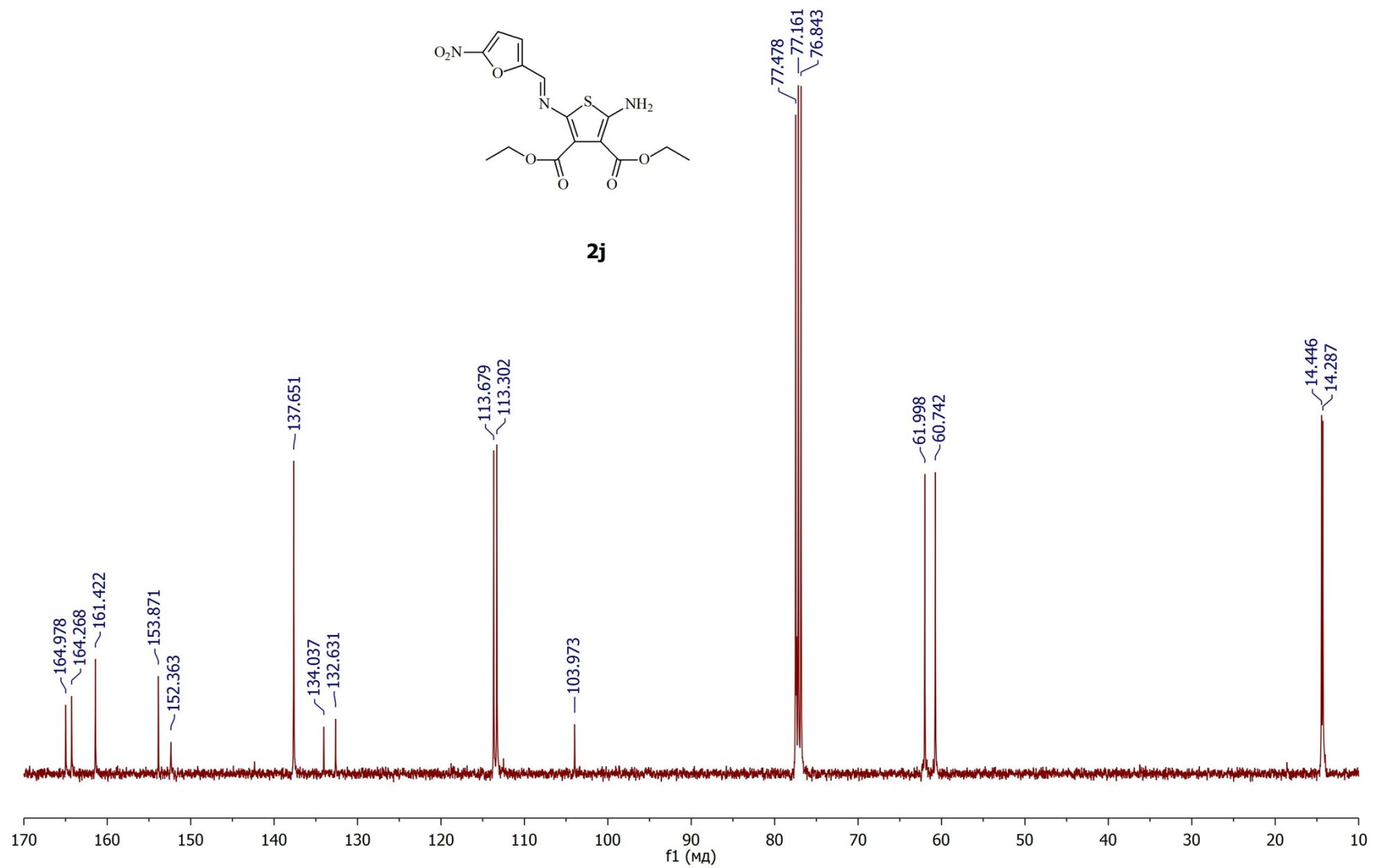


Figure SM-2. ^{13}C NMR spectrum of 2j

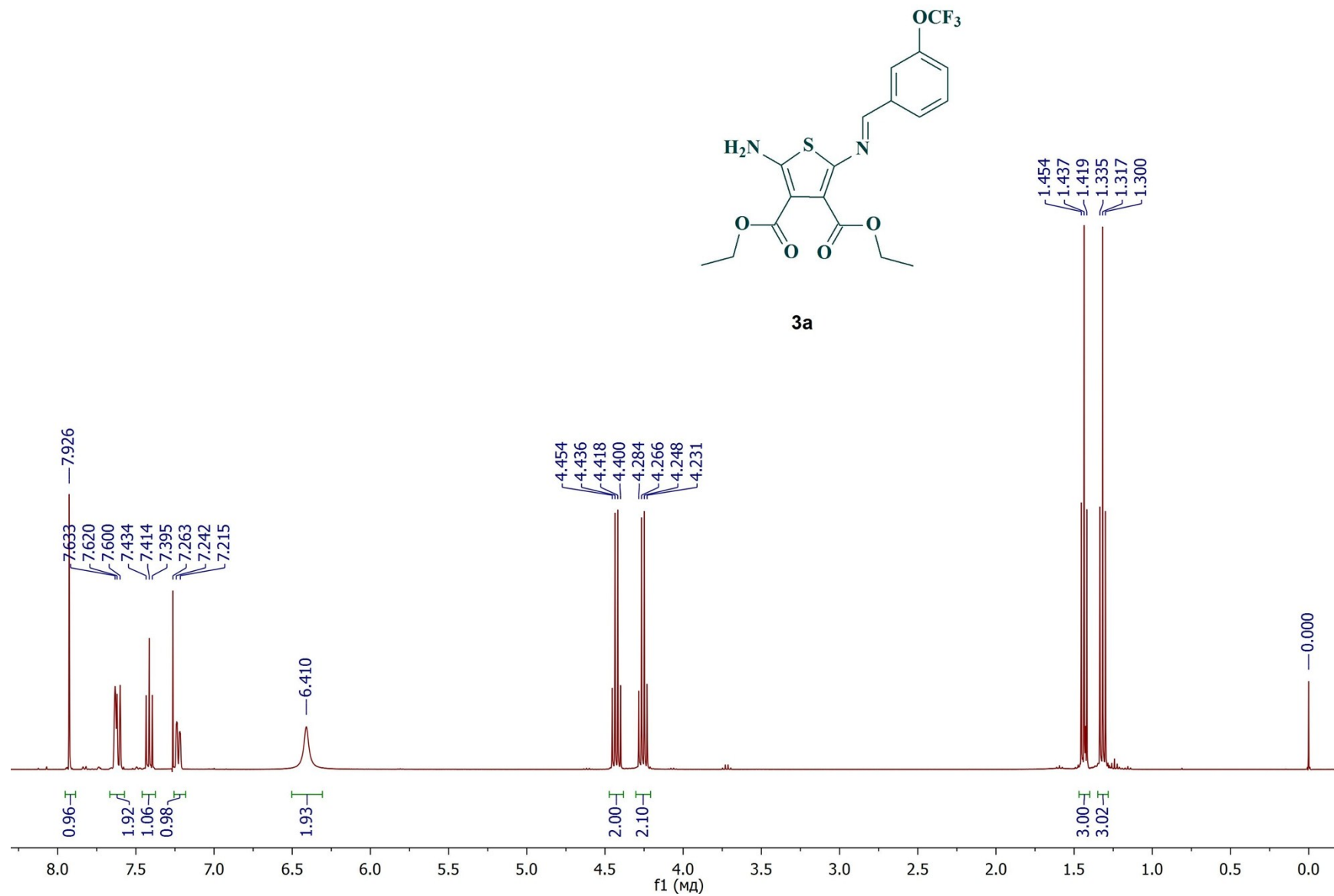


Figure SM-3. ^1H NMR spectrum of 3a

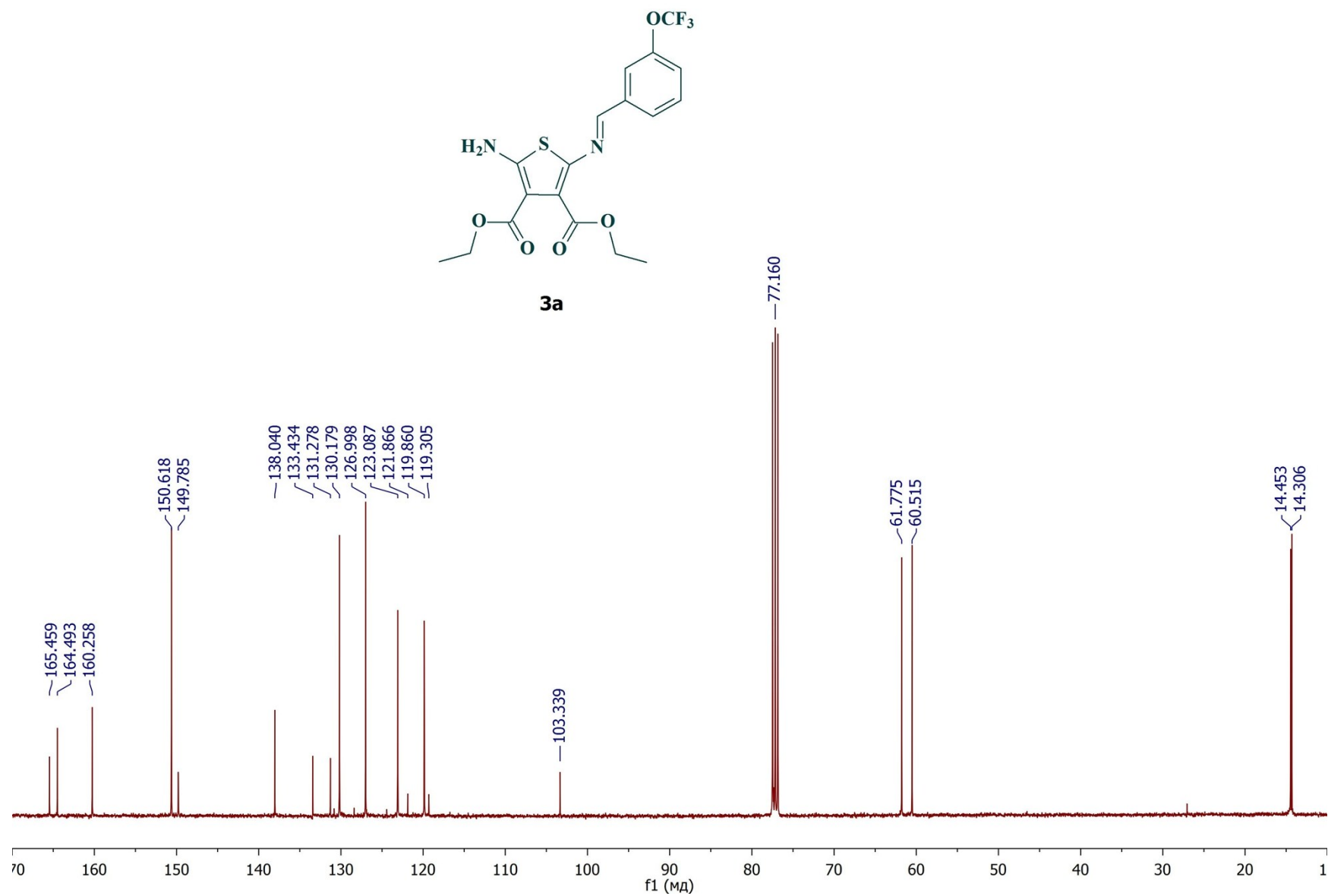


Figure SM-4. ^{13}C NMR spectrum of 3a

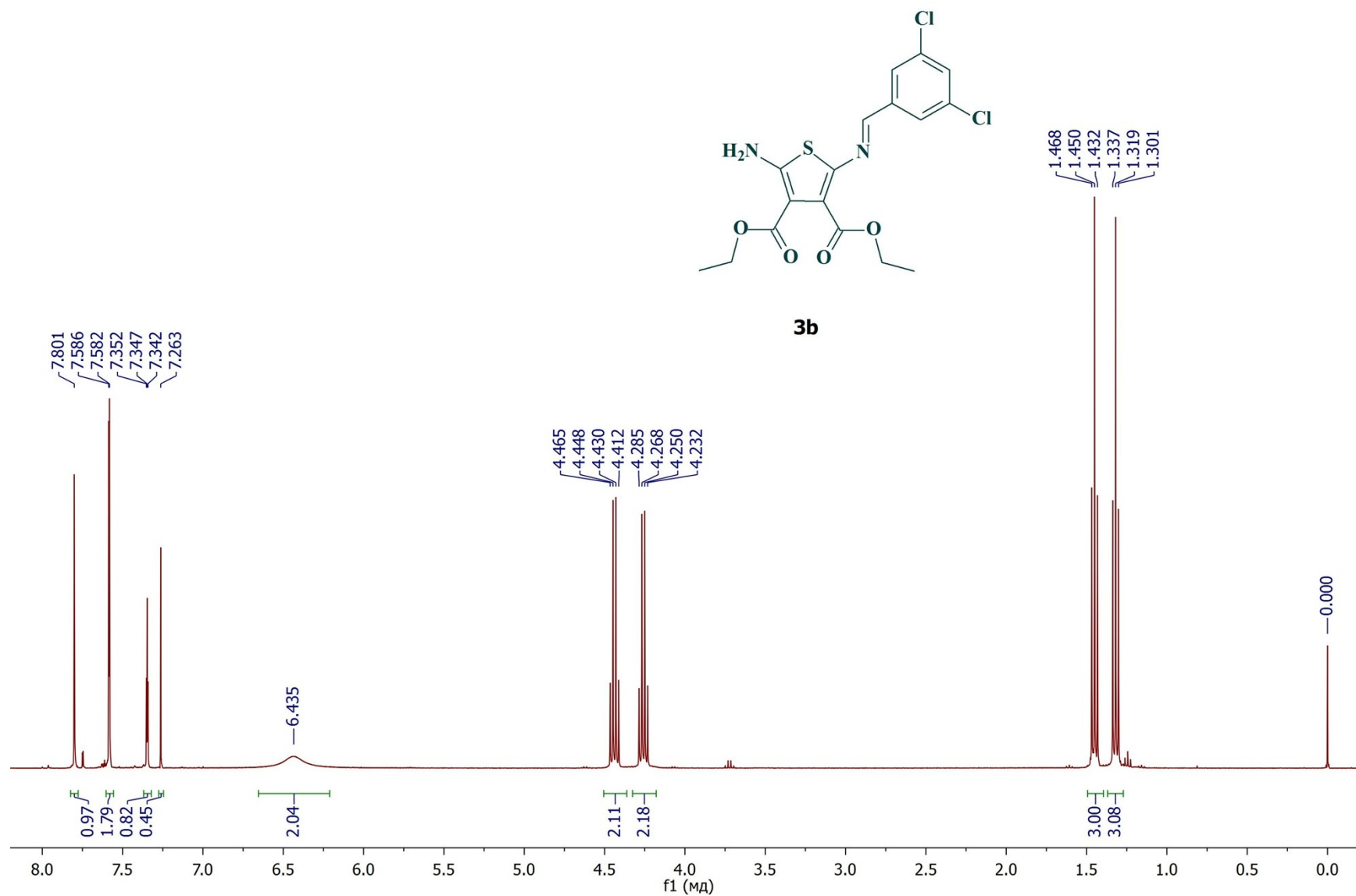


Figure SM-5. ¹H NMR spectrum of **3b**

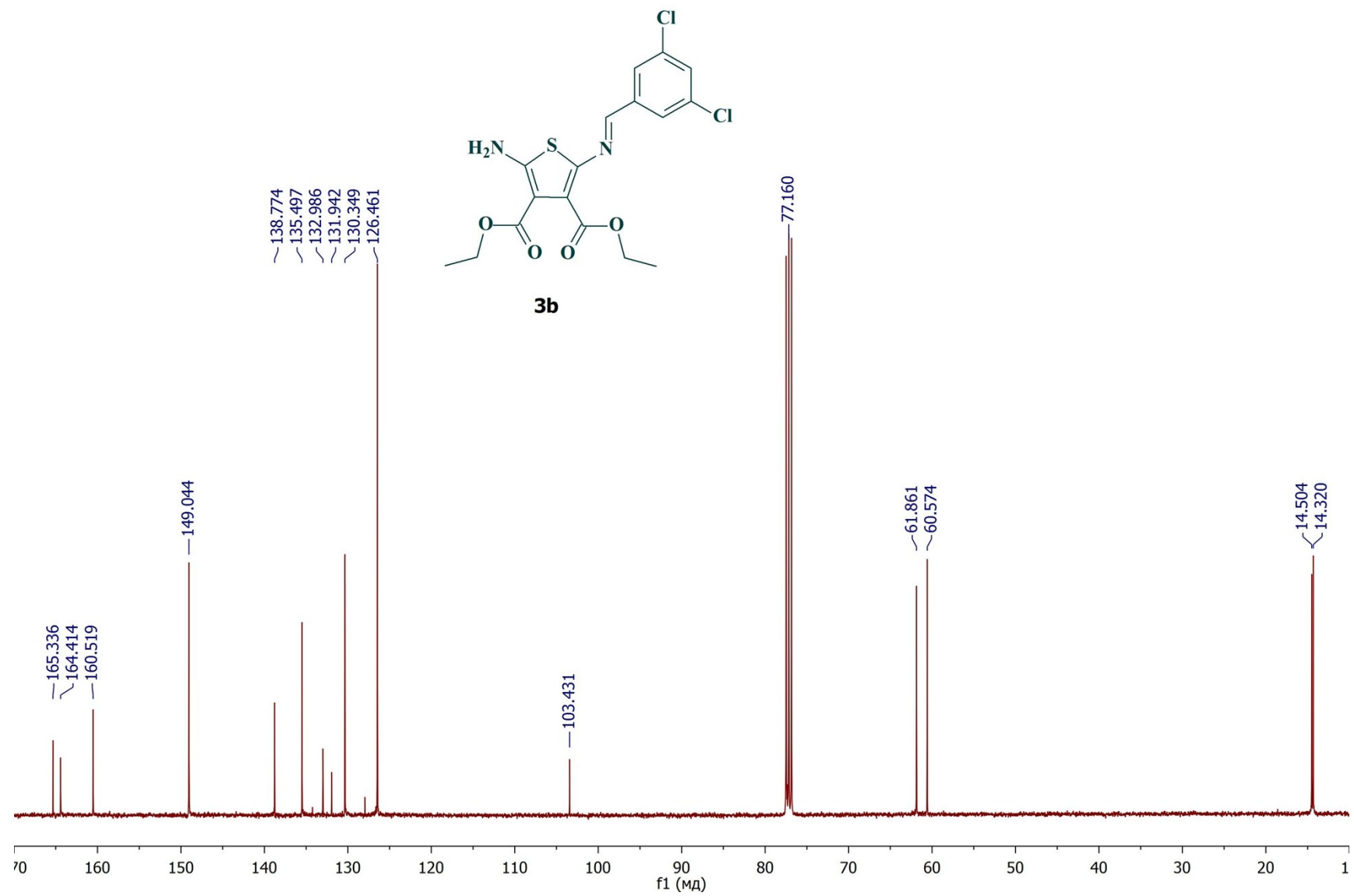


Figure SM-6. ^{13}C NMR spectrum of **3b**

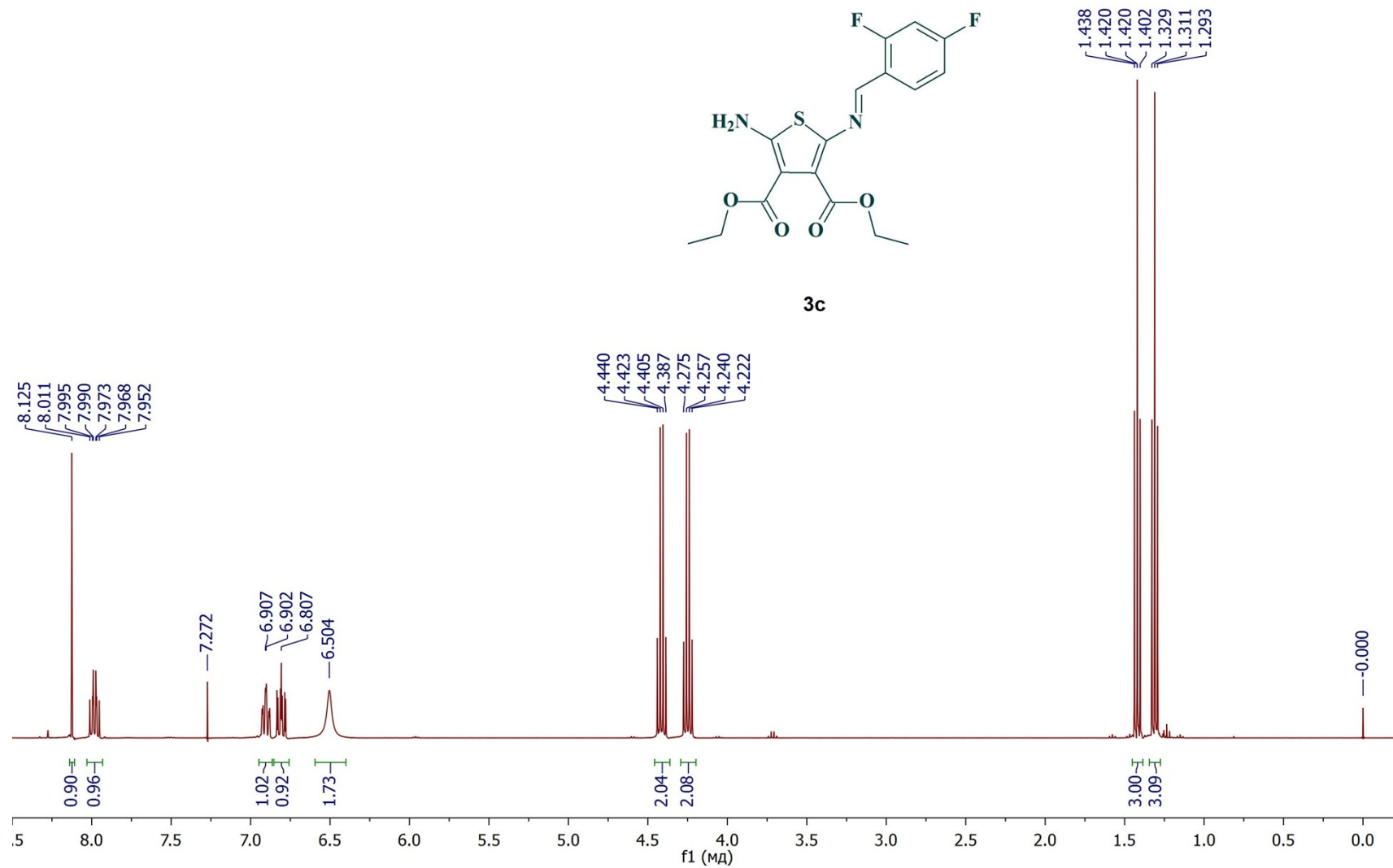


Figure SM-7. ¹H NMR spectrum of 3c

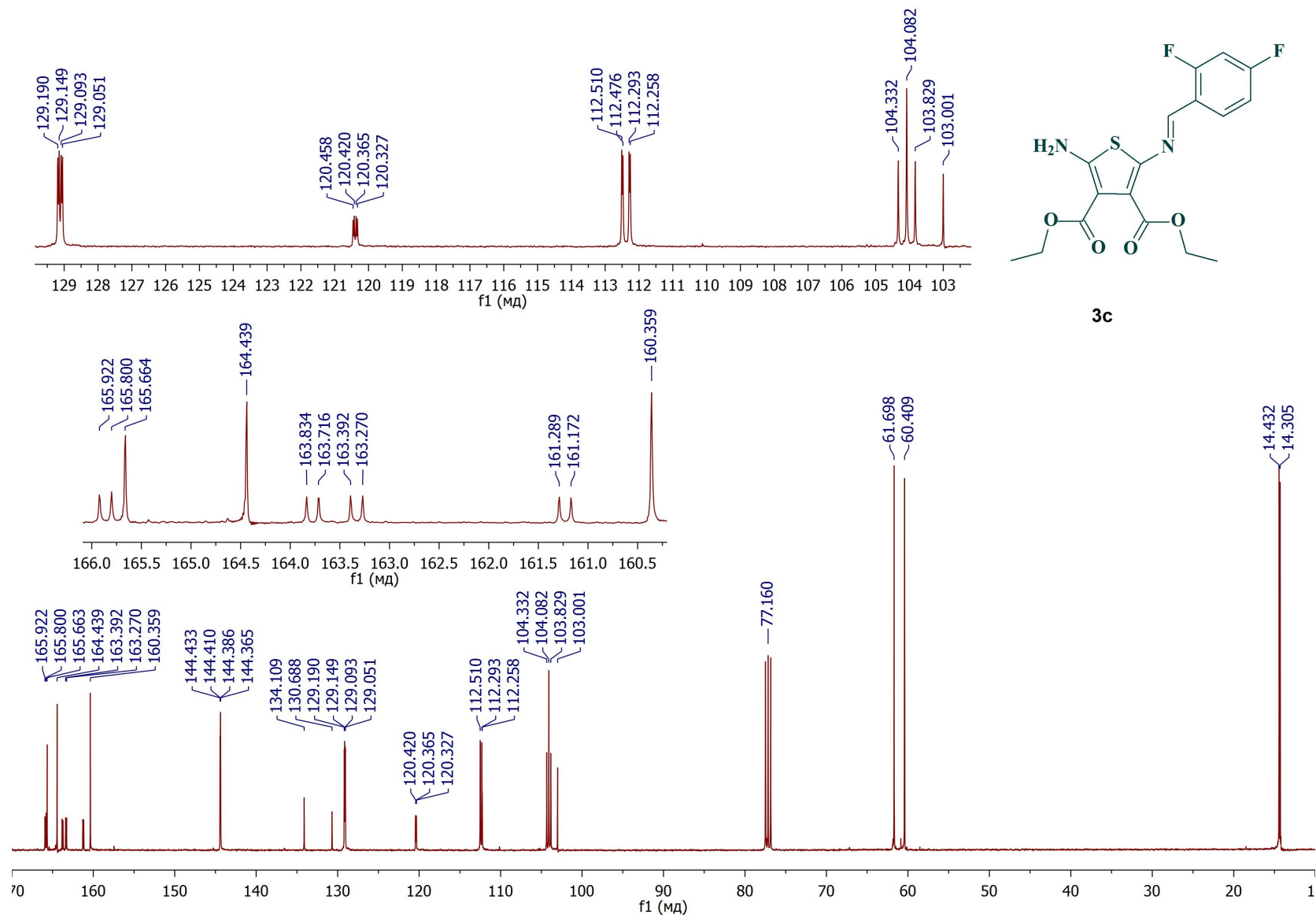


Figure SM-8. ^{13}C NMR spectrum of **3c**

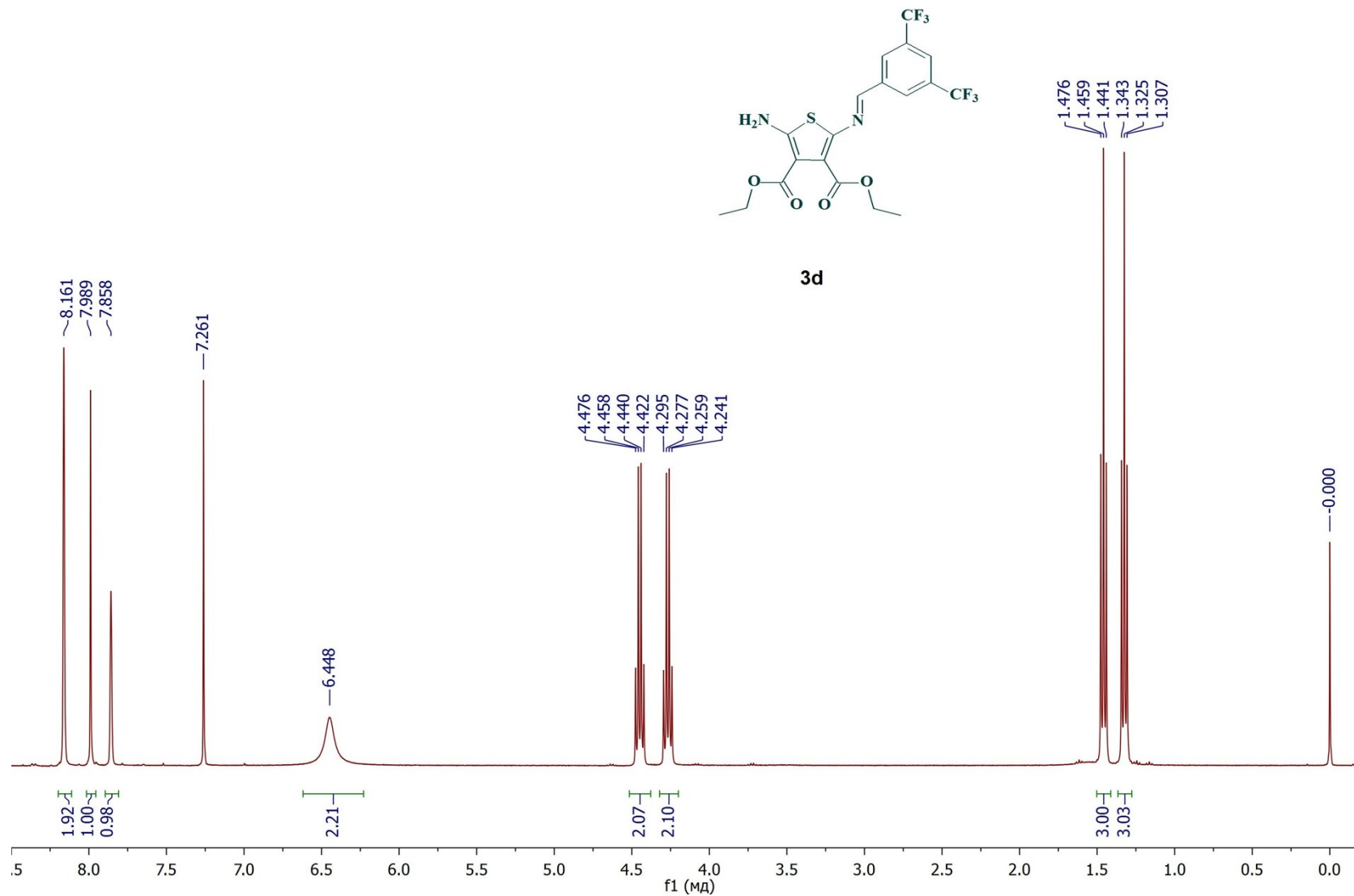


Figure SM-9. ^1H NMR spectrum of **3d**

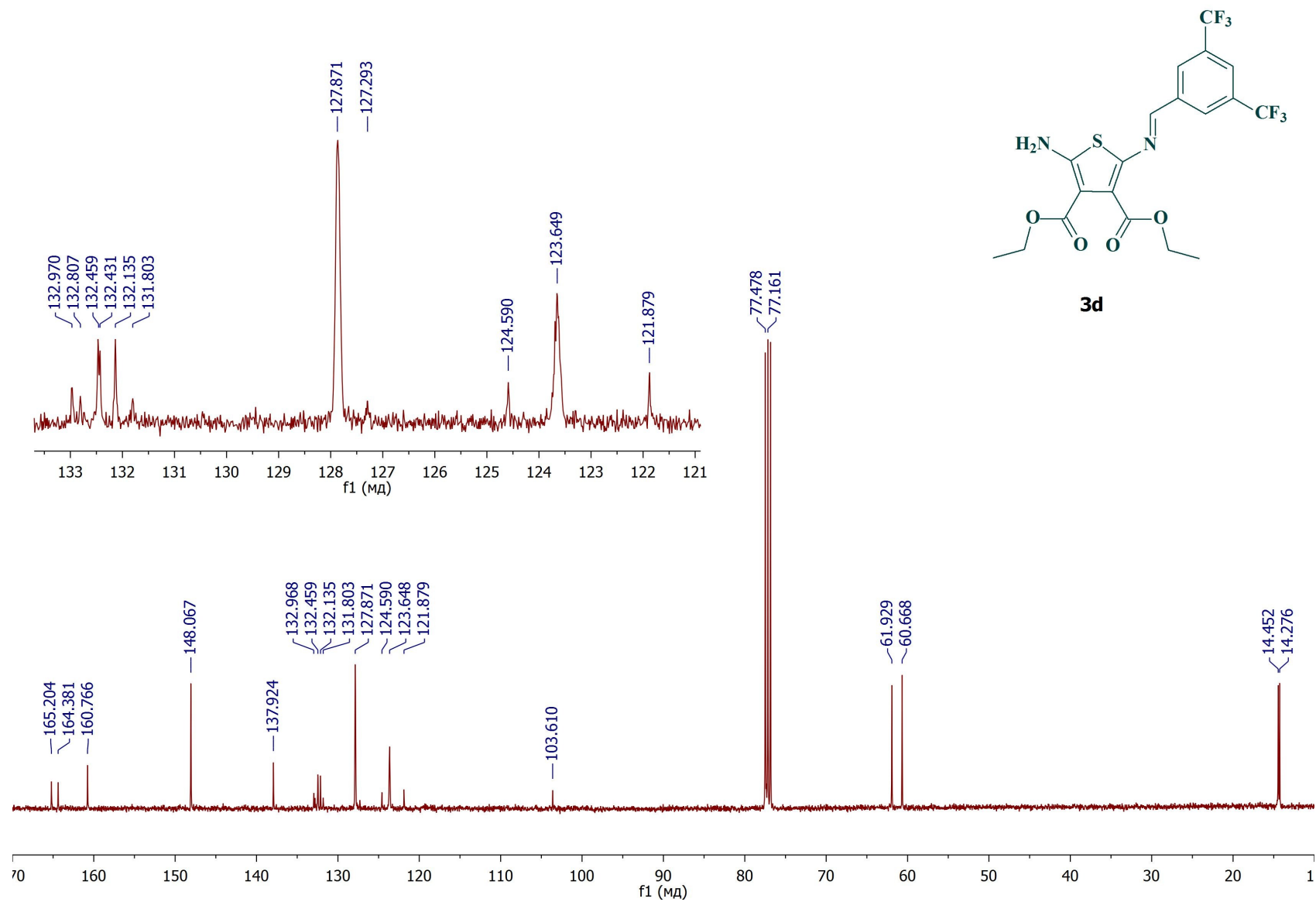


Figure SM-10. ^{13}C NMR spectrum of **3d**

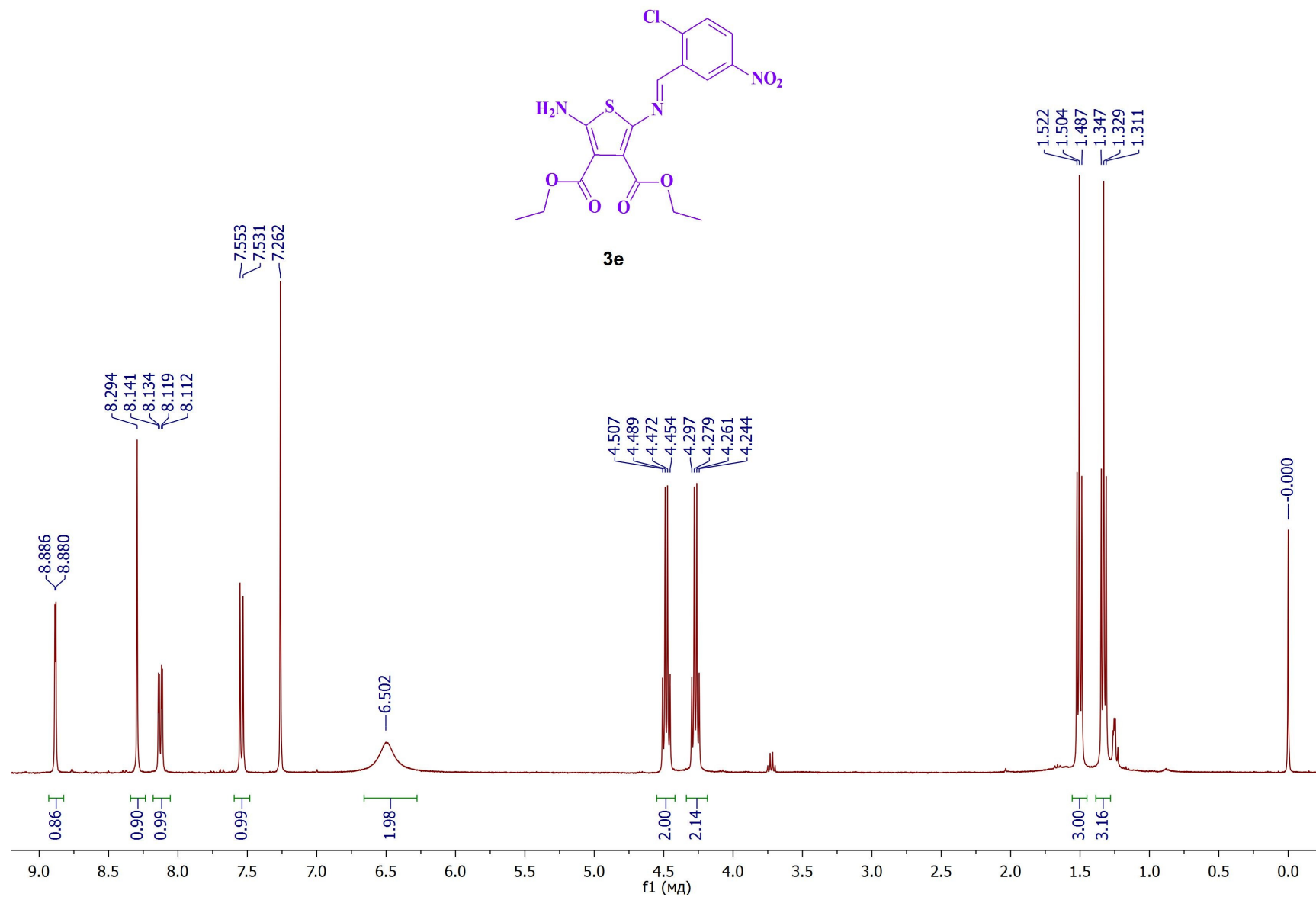


Figure SM-11. ^1H NMR spectrum of 3e

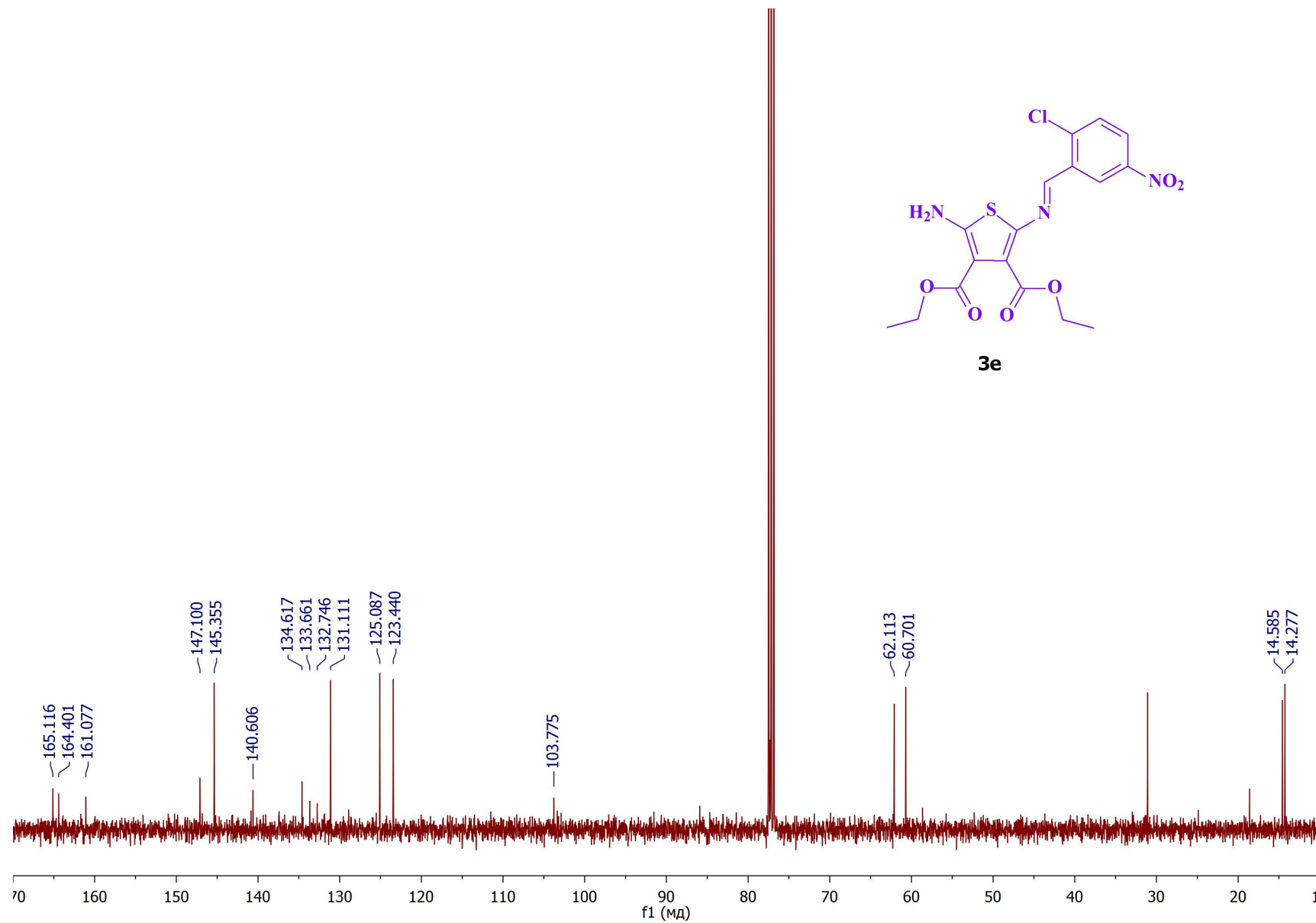


Figure SM-12. ^{13}C NMR spectrum of **3e**

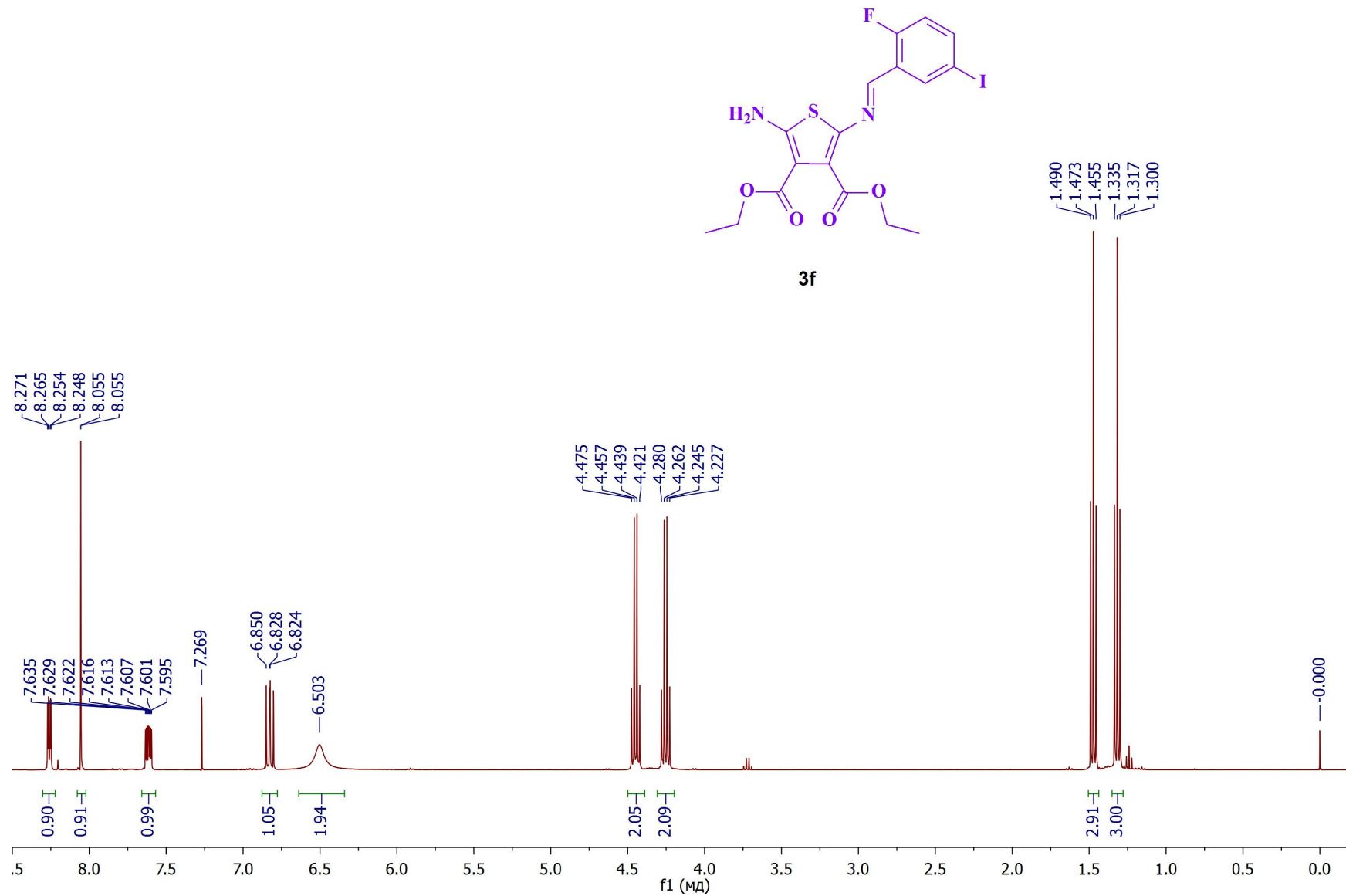


Figure SM-13. ^1H NMR spectrum of **3f**

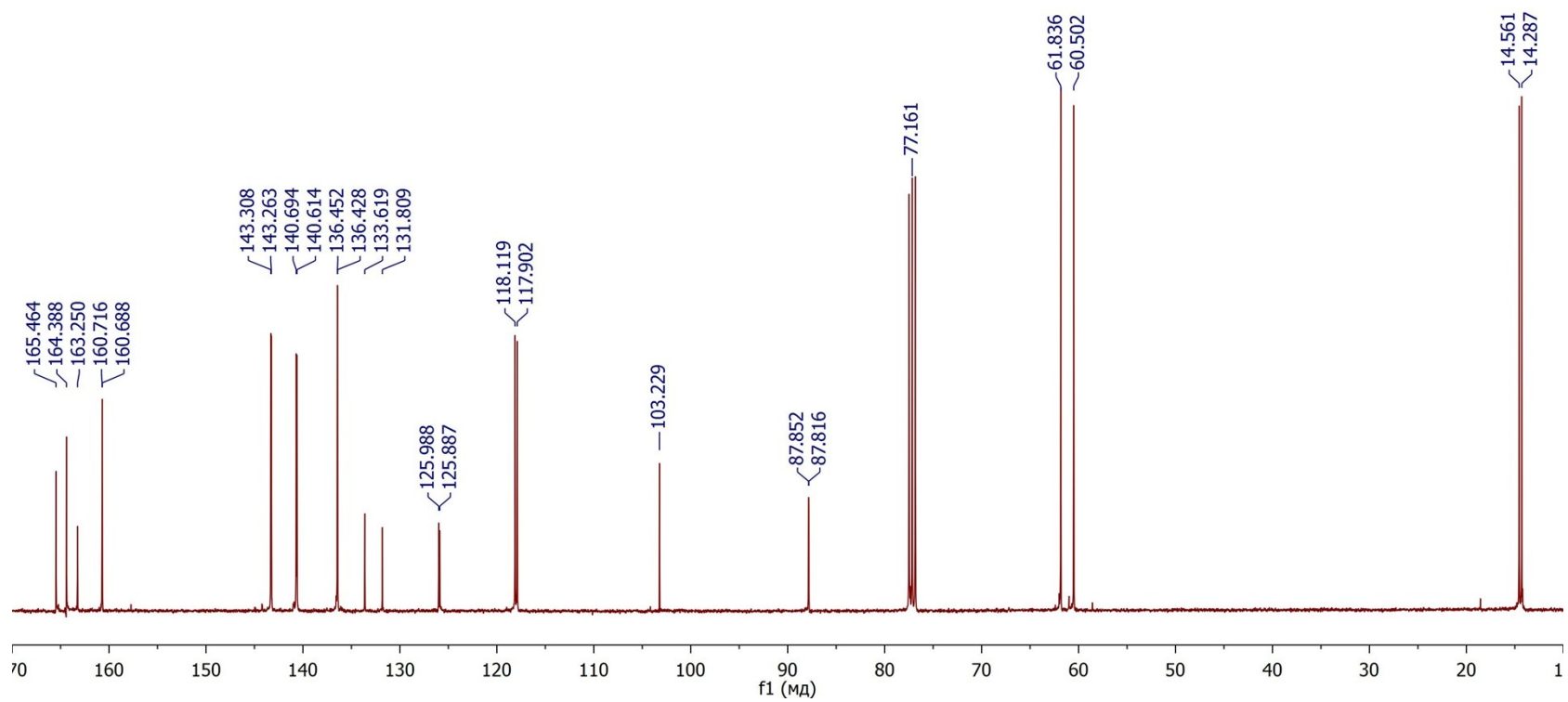
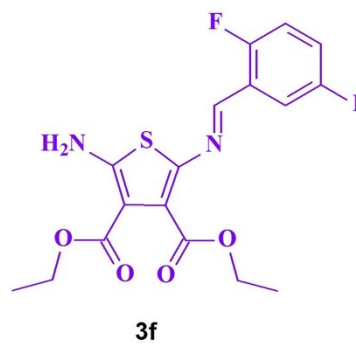


Figure SM-14. ^{13}C NMR spectrum of **3f**

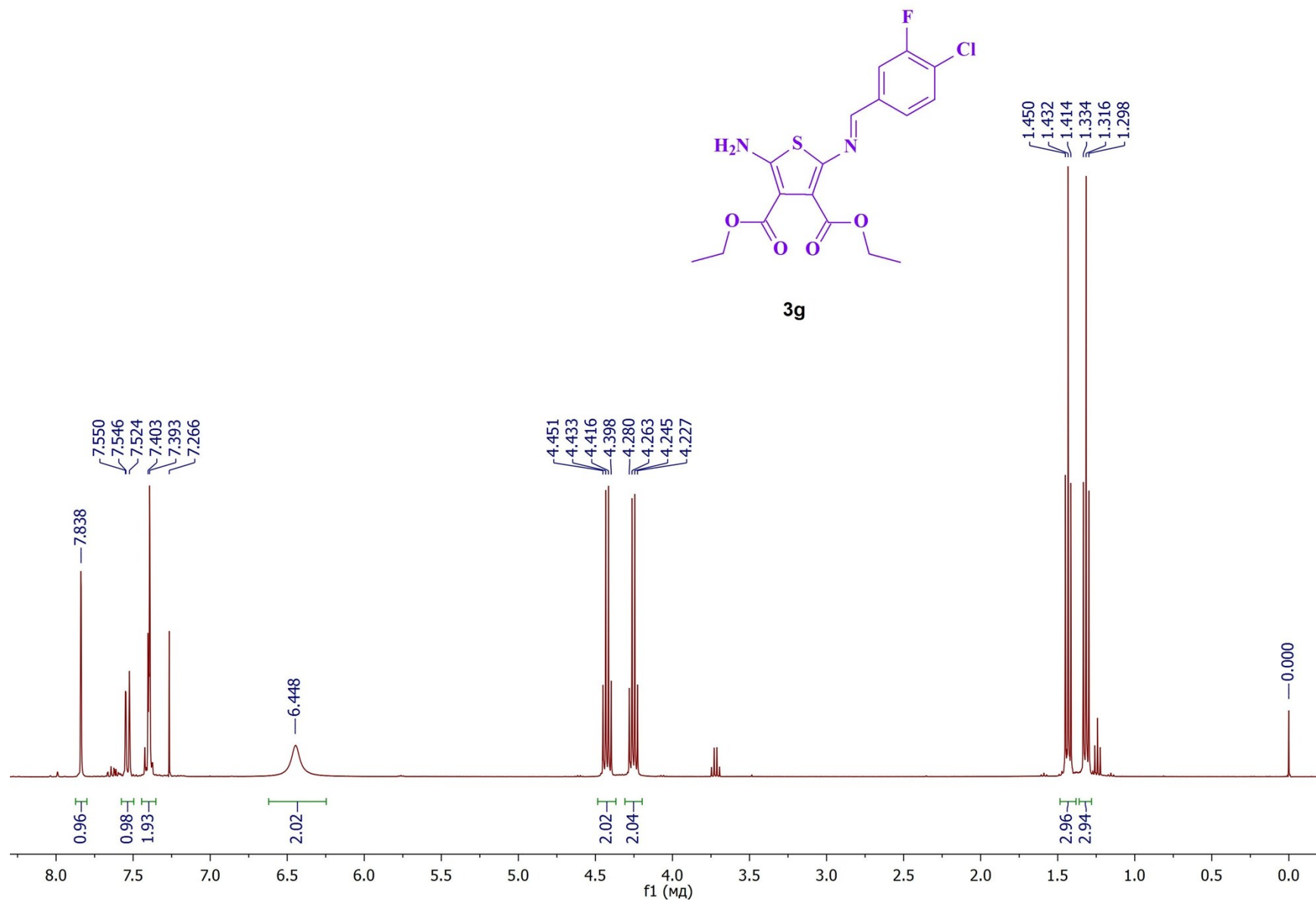
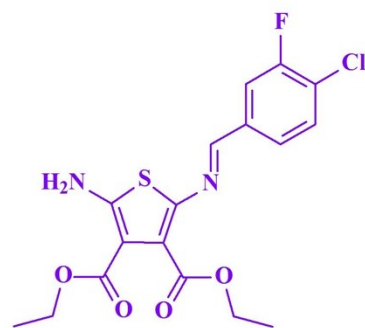
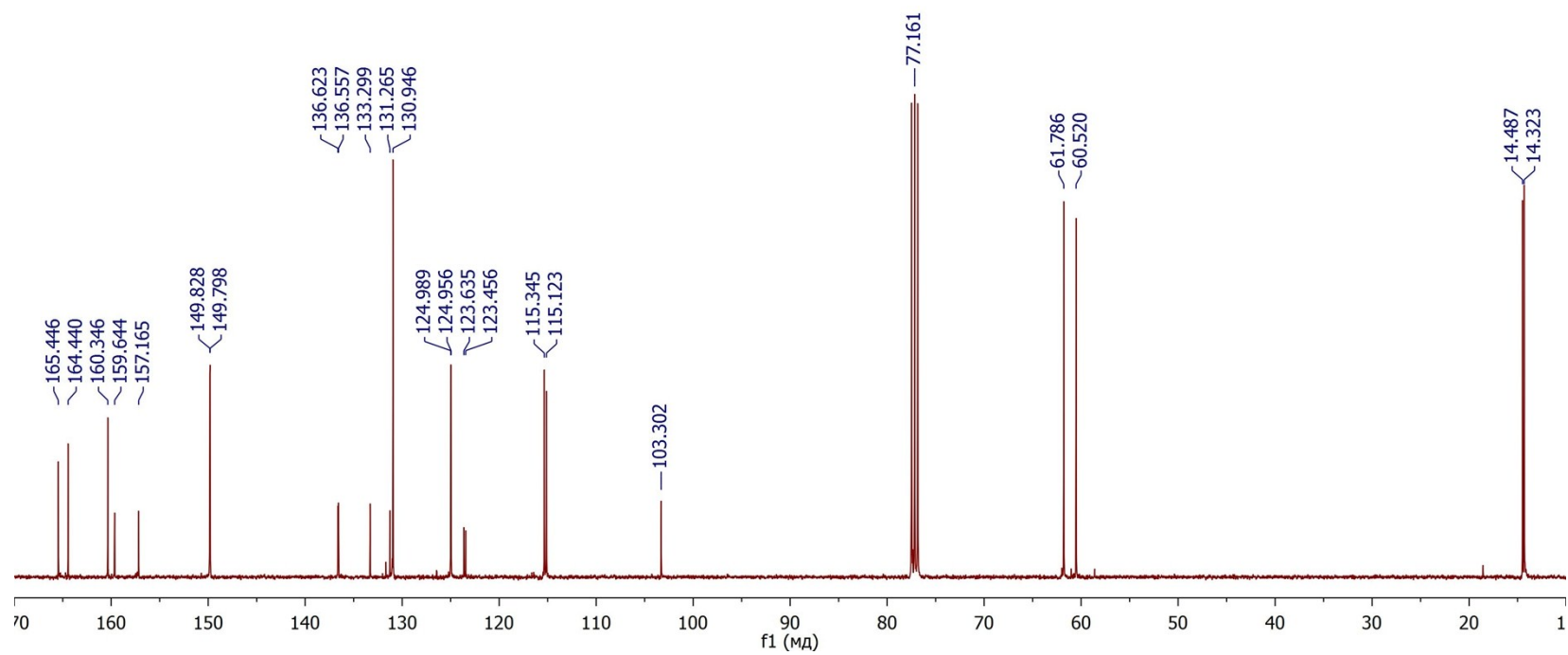
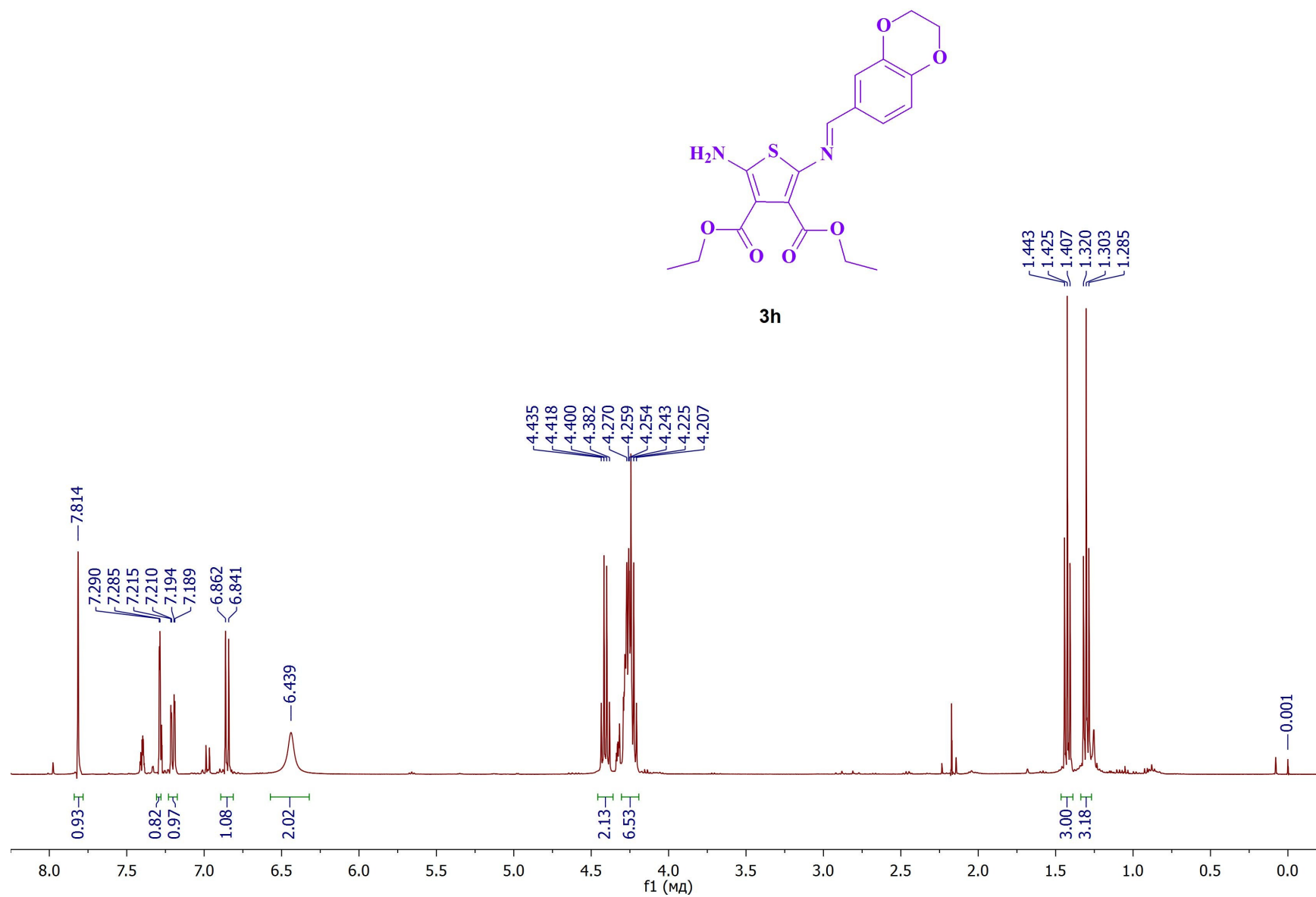
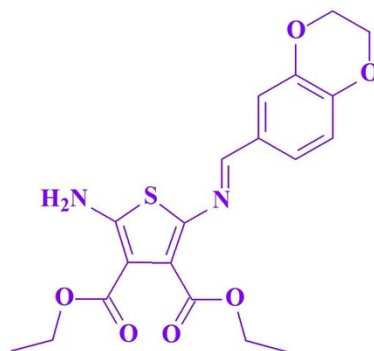


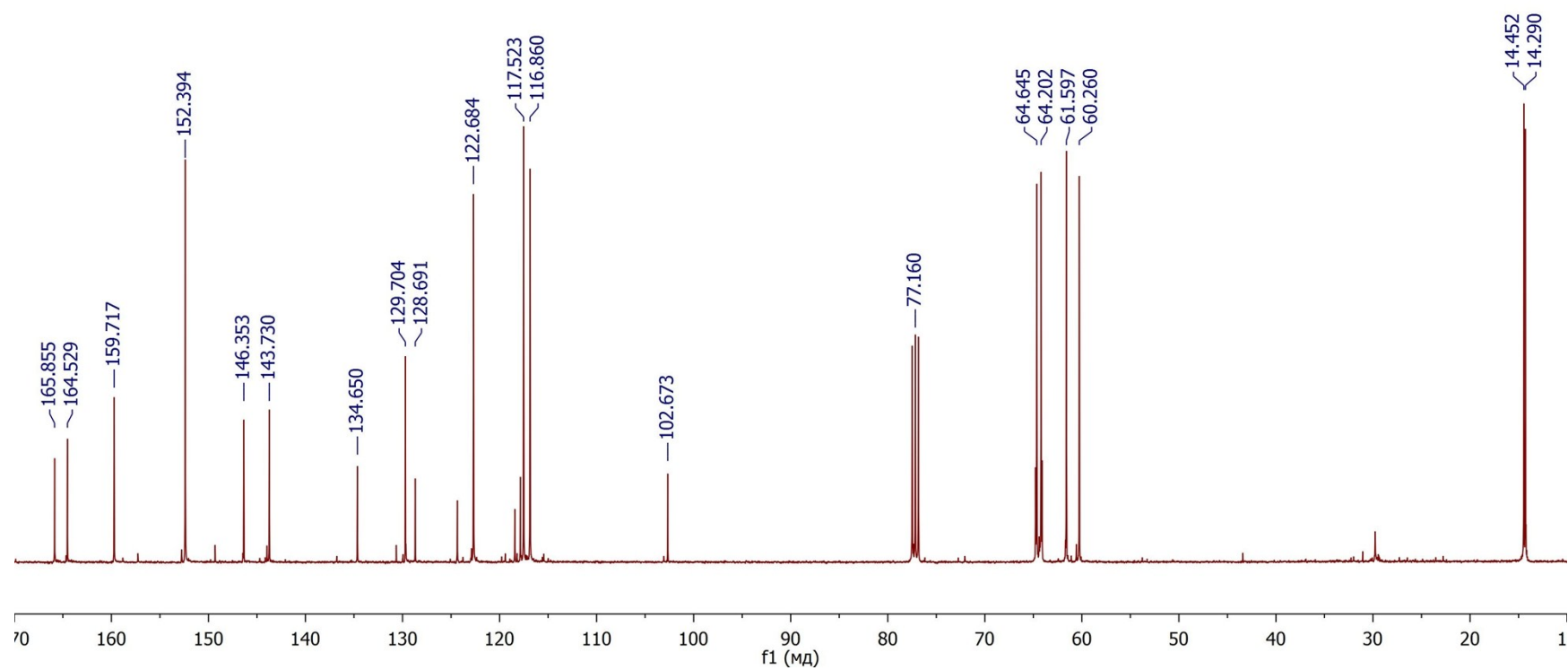
Figure SM-15. ^1H NMR spectrum of 3g

**3g****Figure SM-16.** ¹³C NMR spectrum of 3g

Figure SM-17. ¹H NMR spectrum of 3h



3h

Figure SM-18. ¹³C NMR spectrum of 3h

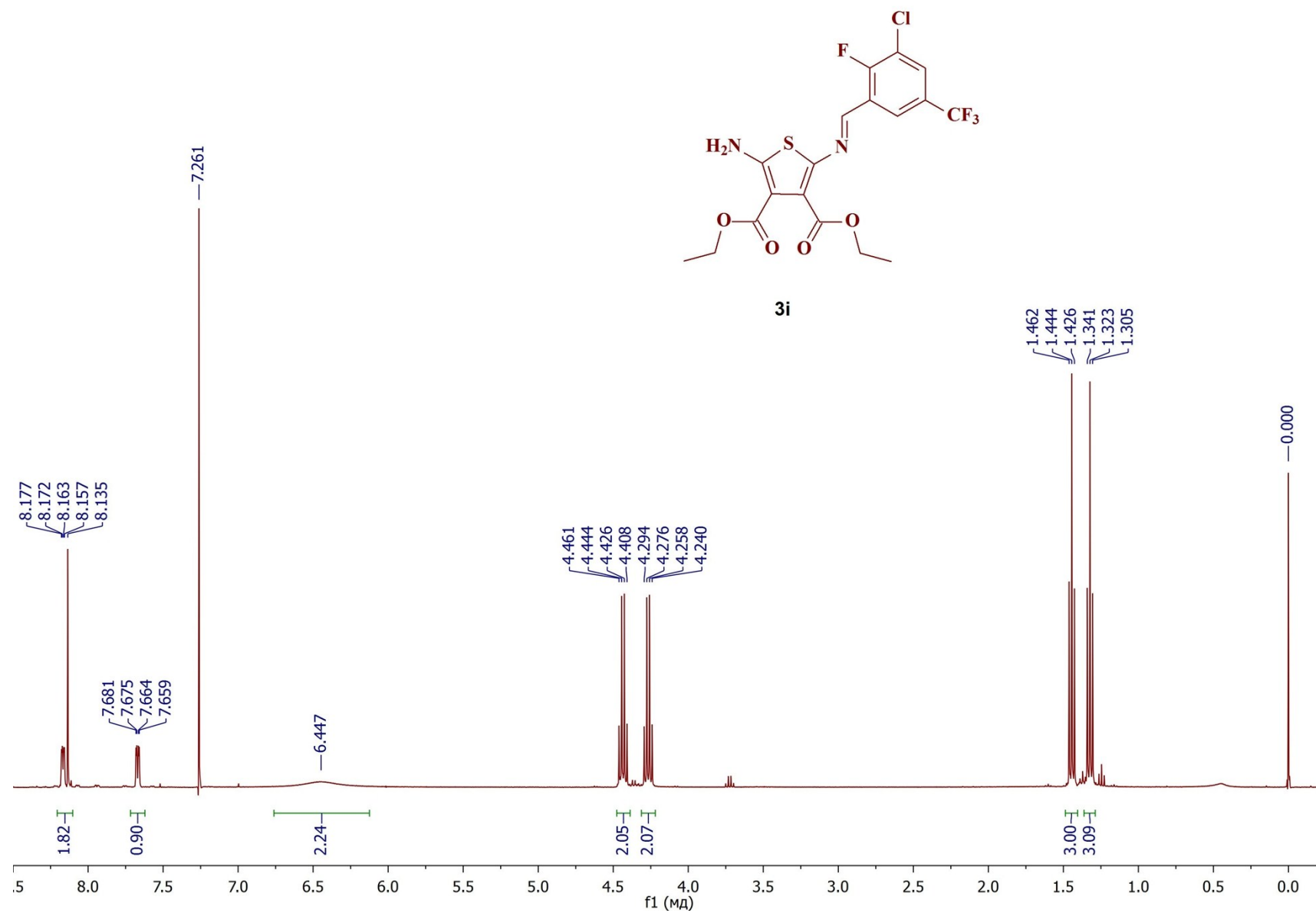


Figure SM-19. ^1H NMR spectrum of **3i**

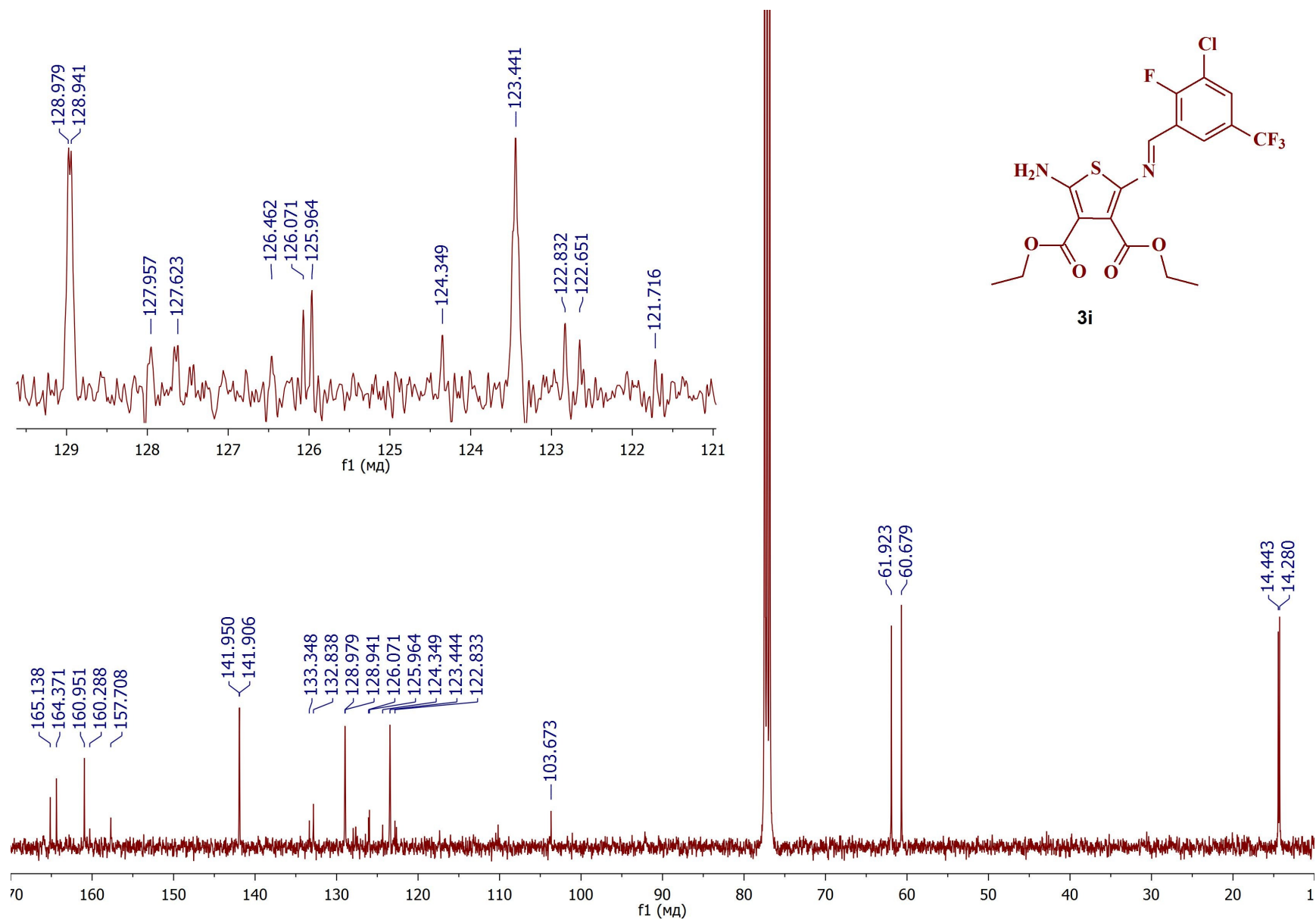


Figure SM-20. ^{13}C NMR spectrum of **3i**

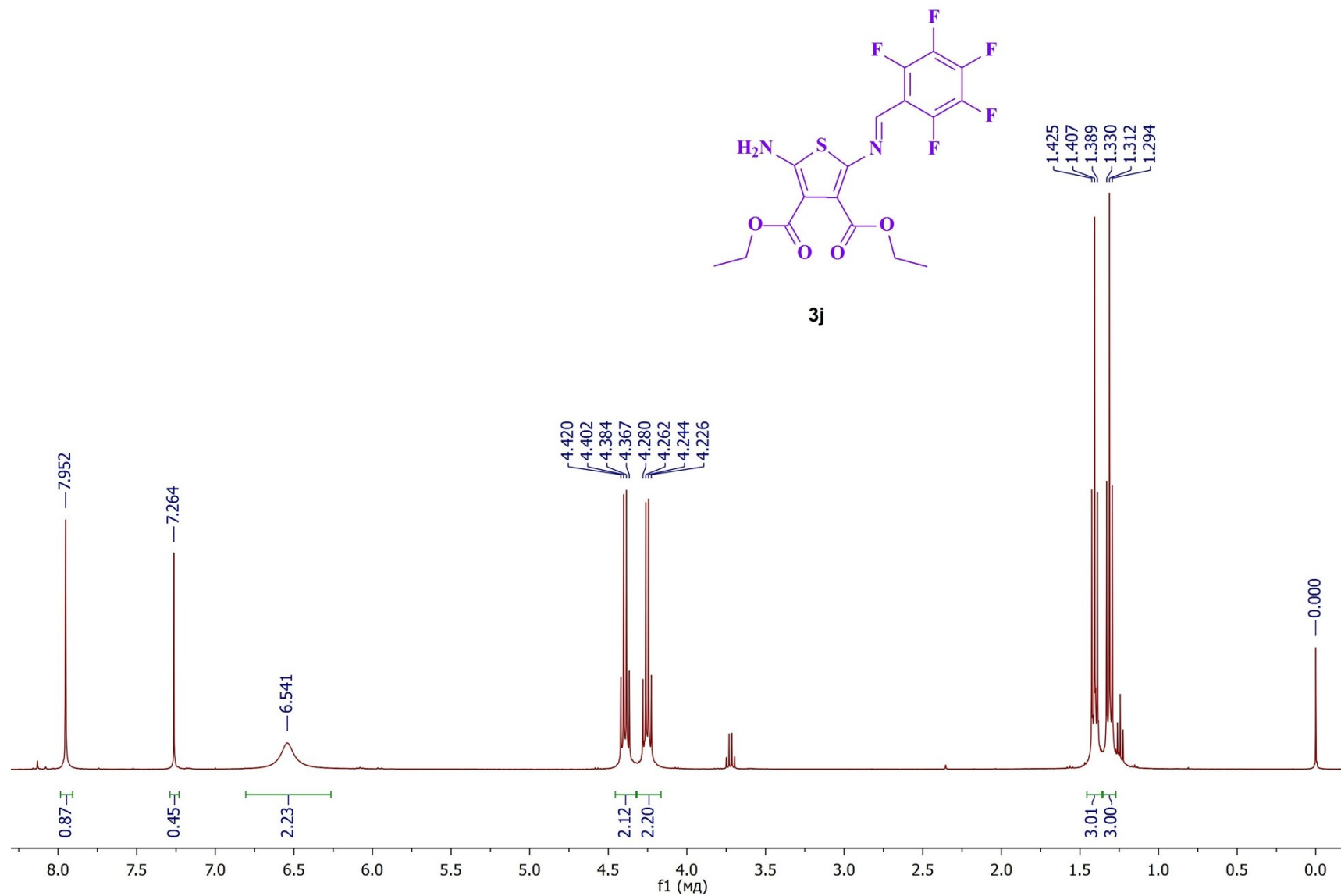


Figure SM-21. ¹H NMR spectrum of 3j

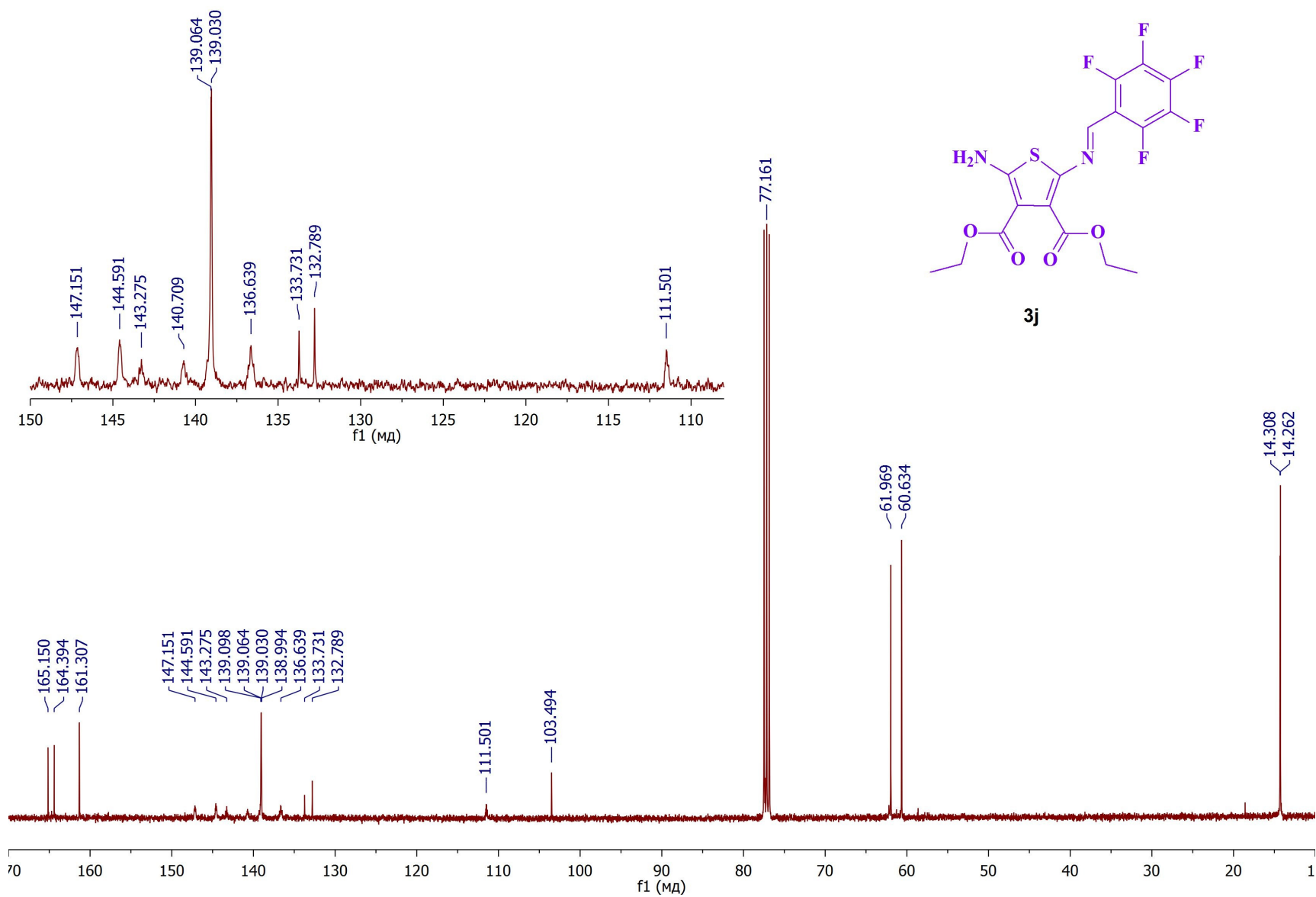


Figure SM-22. ^{13}C NMR spectrum of **3j**

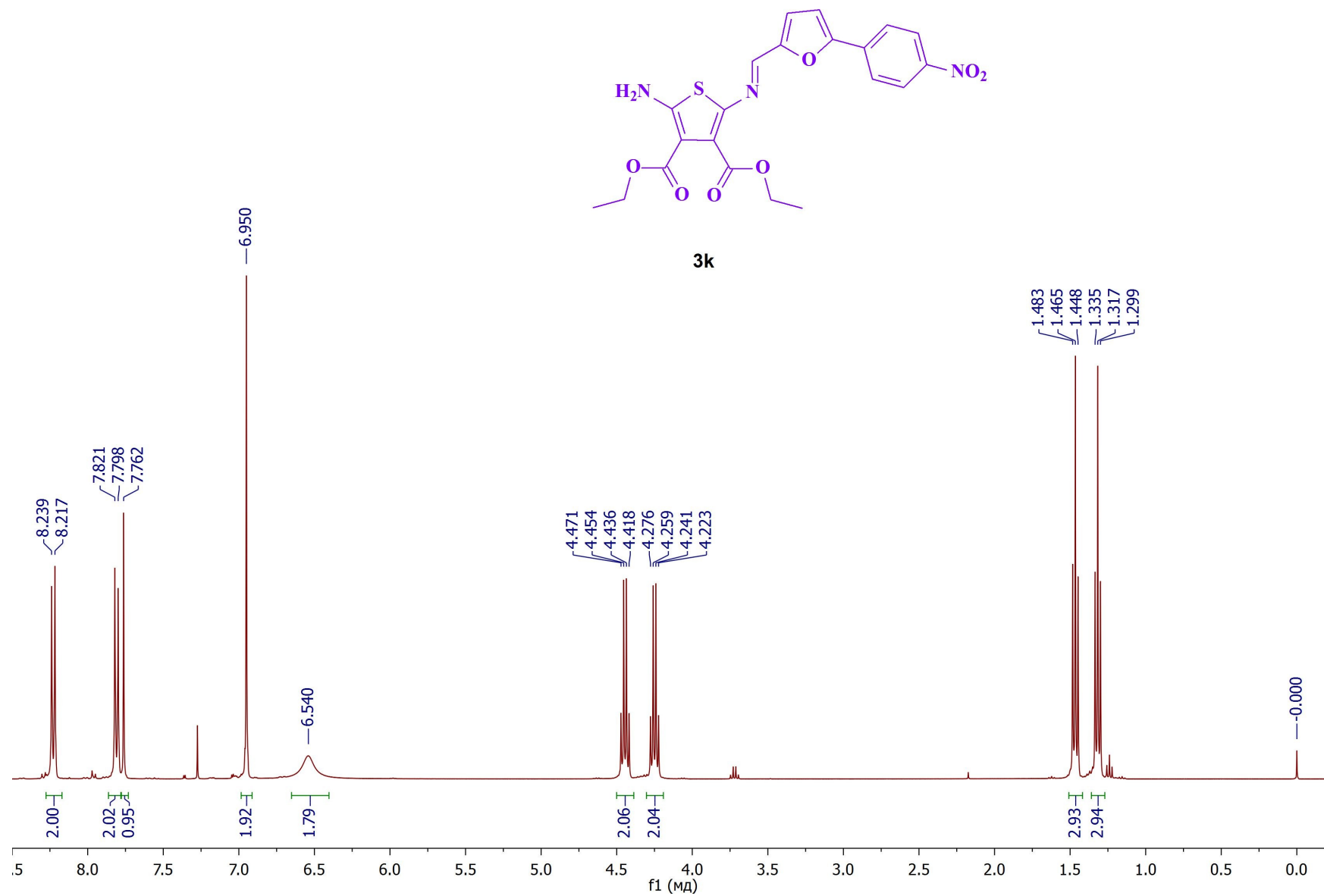


Figure SM-23. ¹H NMR spectrum of 3k

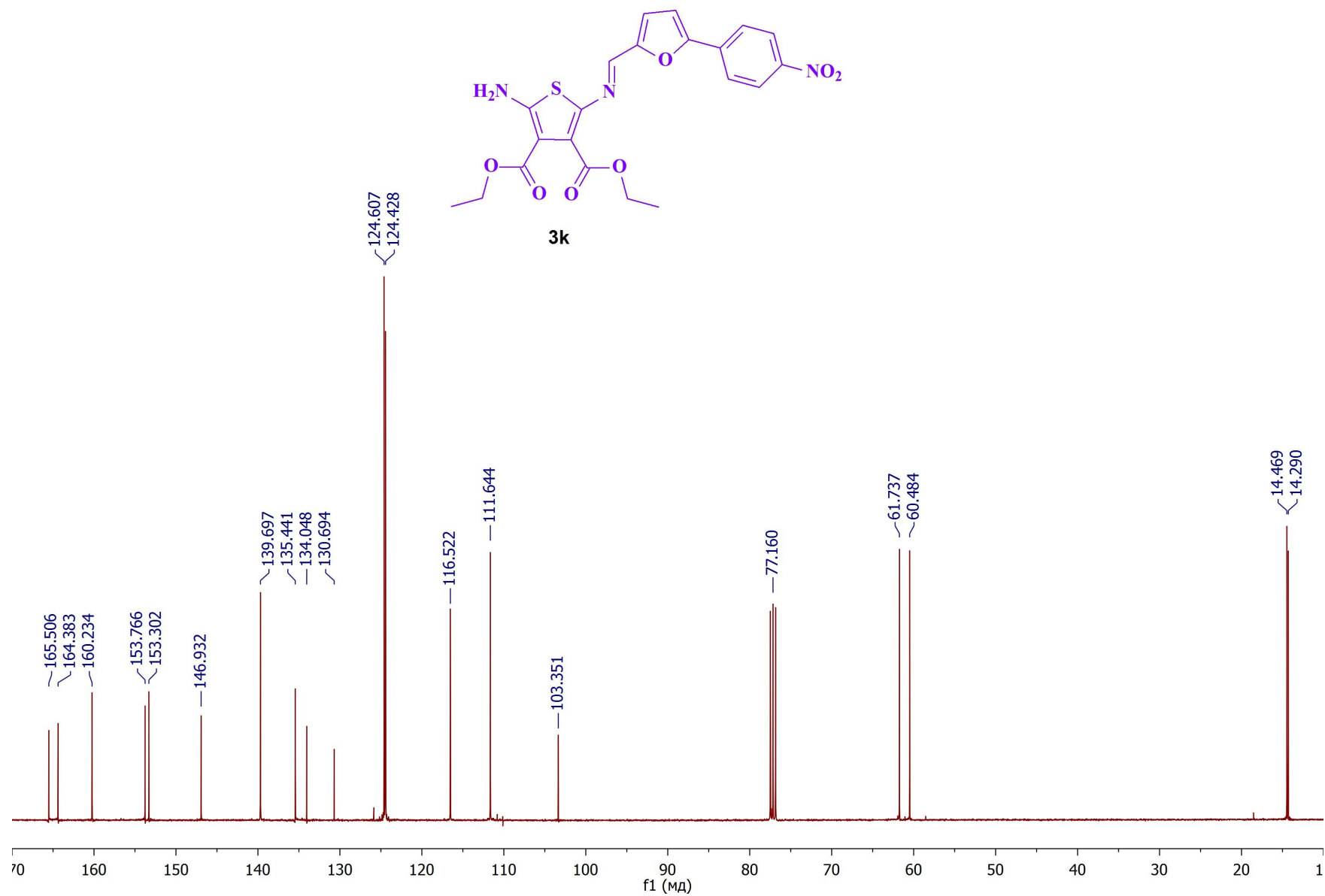


Figure SM-24. ^{13}C NMR spectrum of 3k

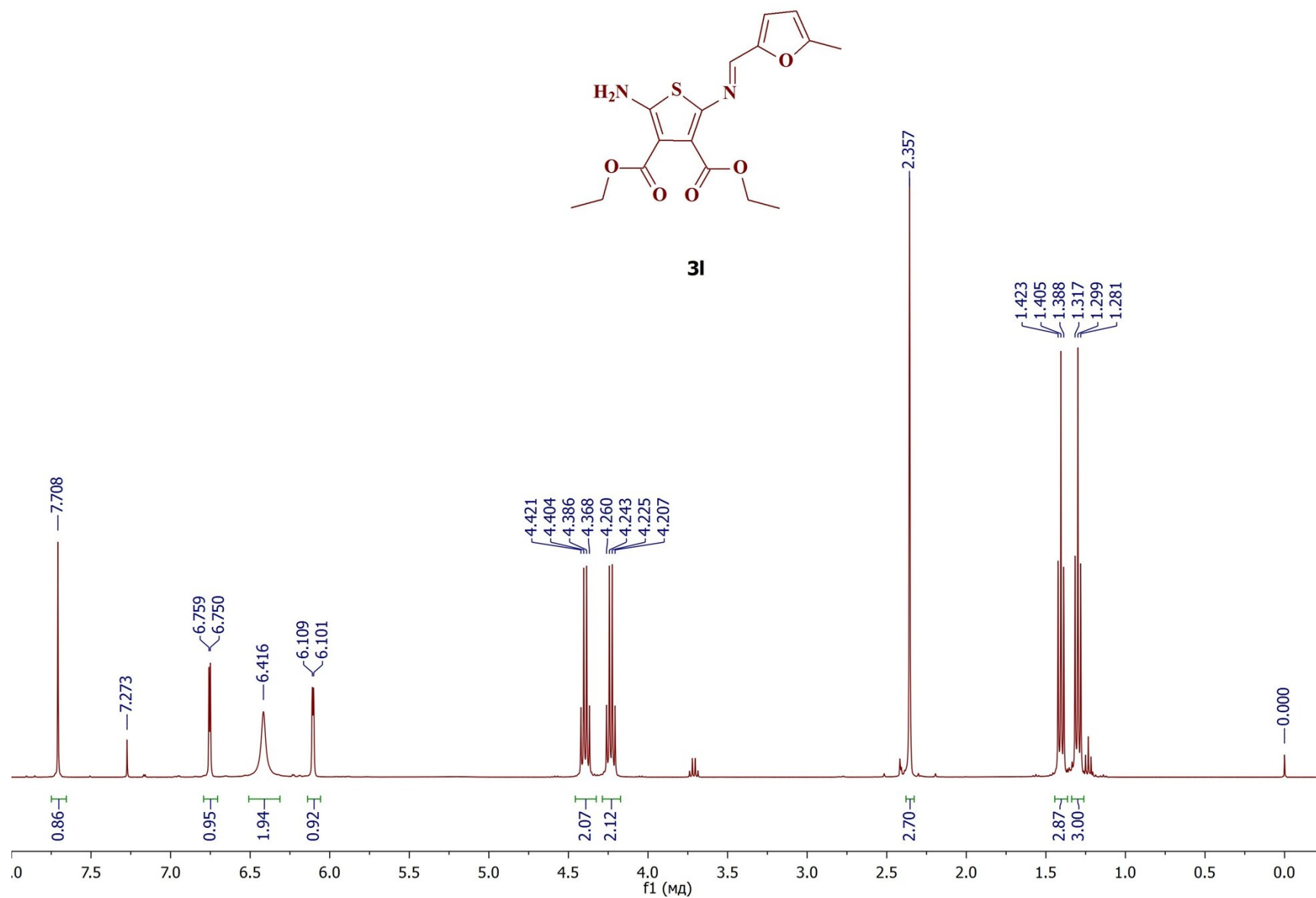


Figure SM-25. ¹H NMR spectrum of 31

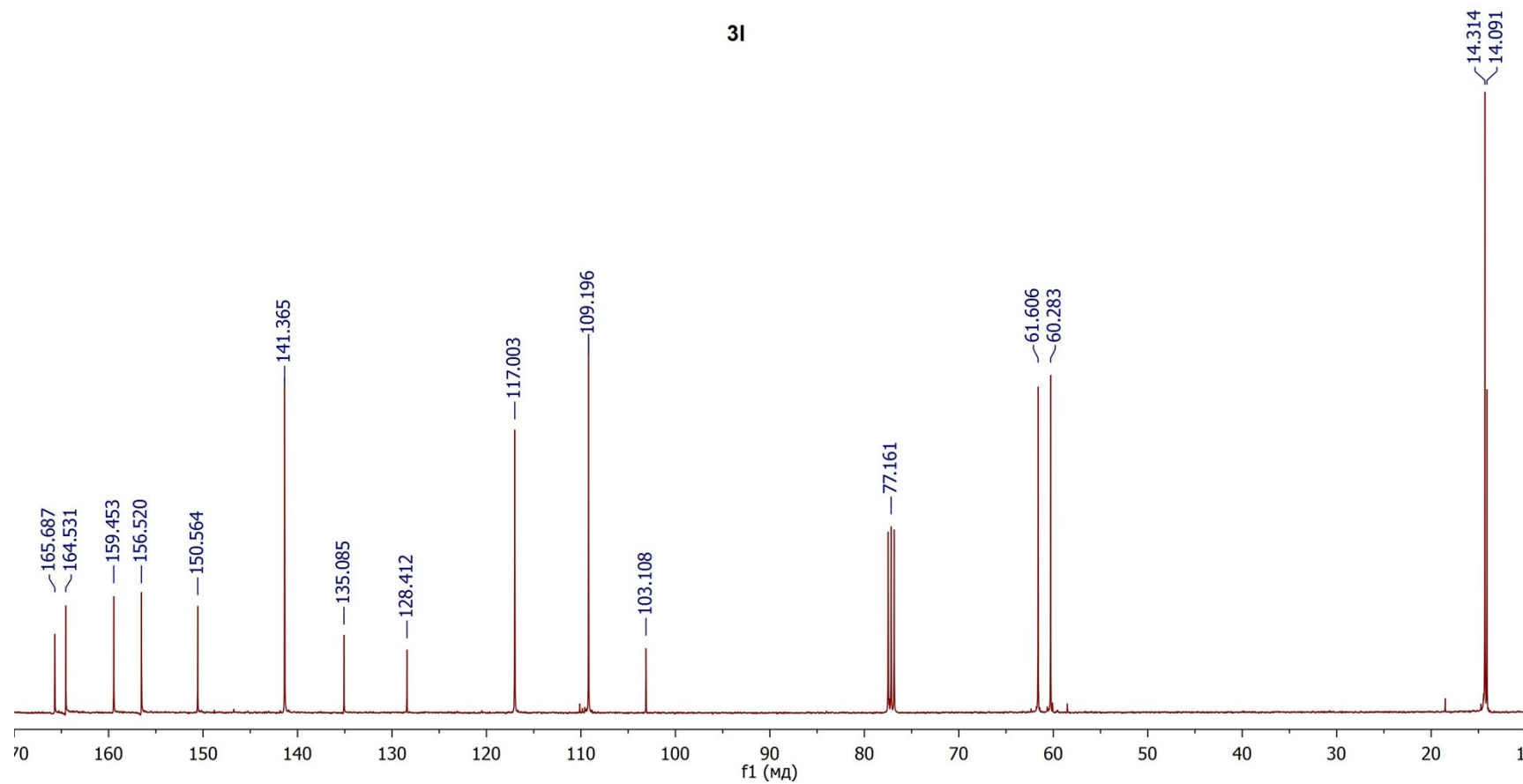
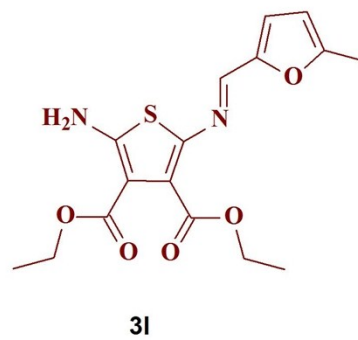


Figure SM-26. ^{13}C NMR spectrum of **31**

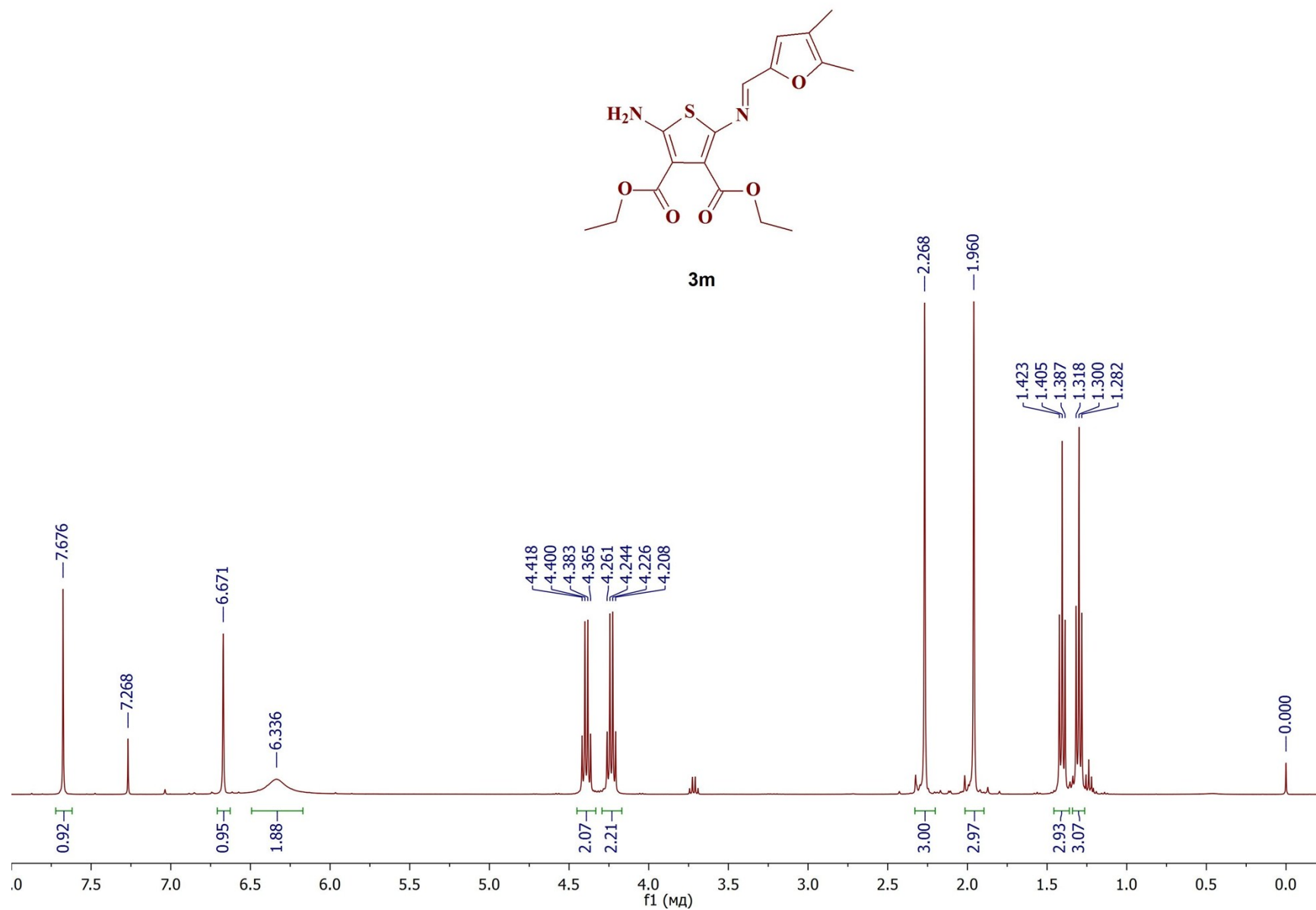


Figure SM-27. ¹H NMR spectrum of 3m

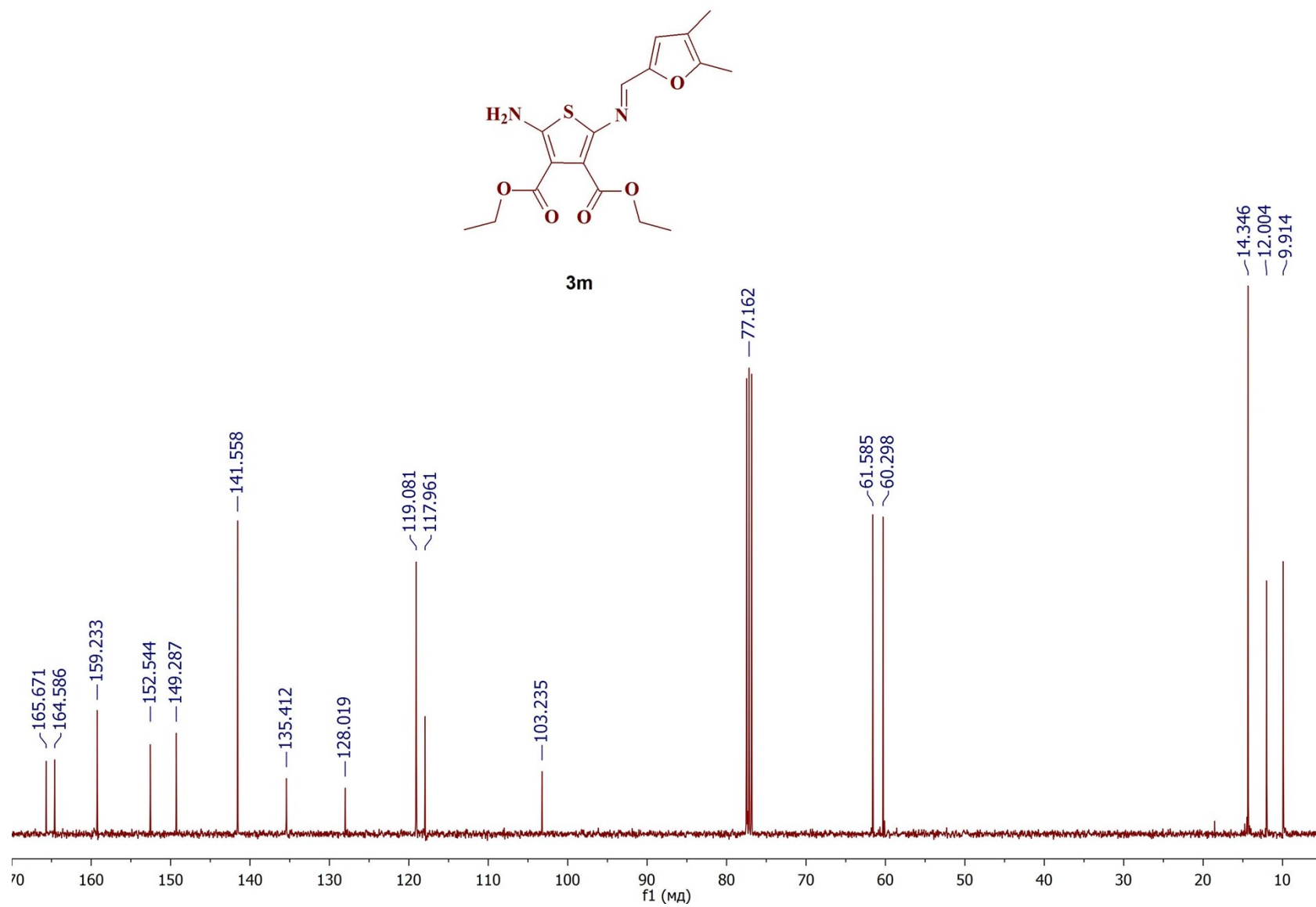


Figure SM-28. ^{13}C NMR spectrum of 3m

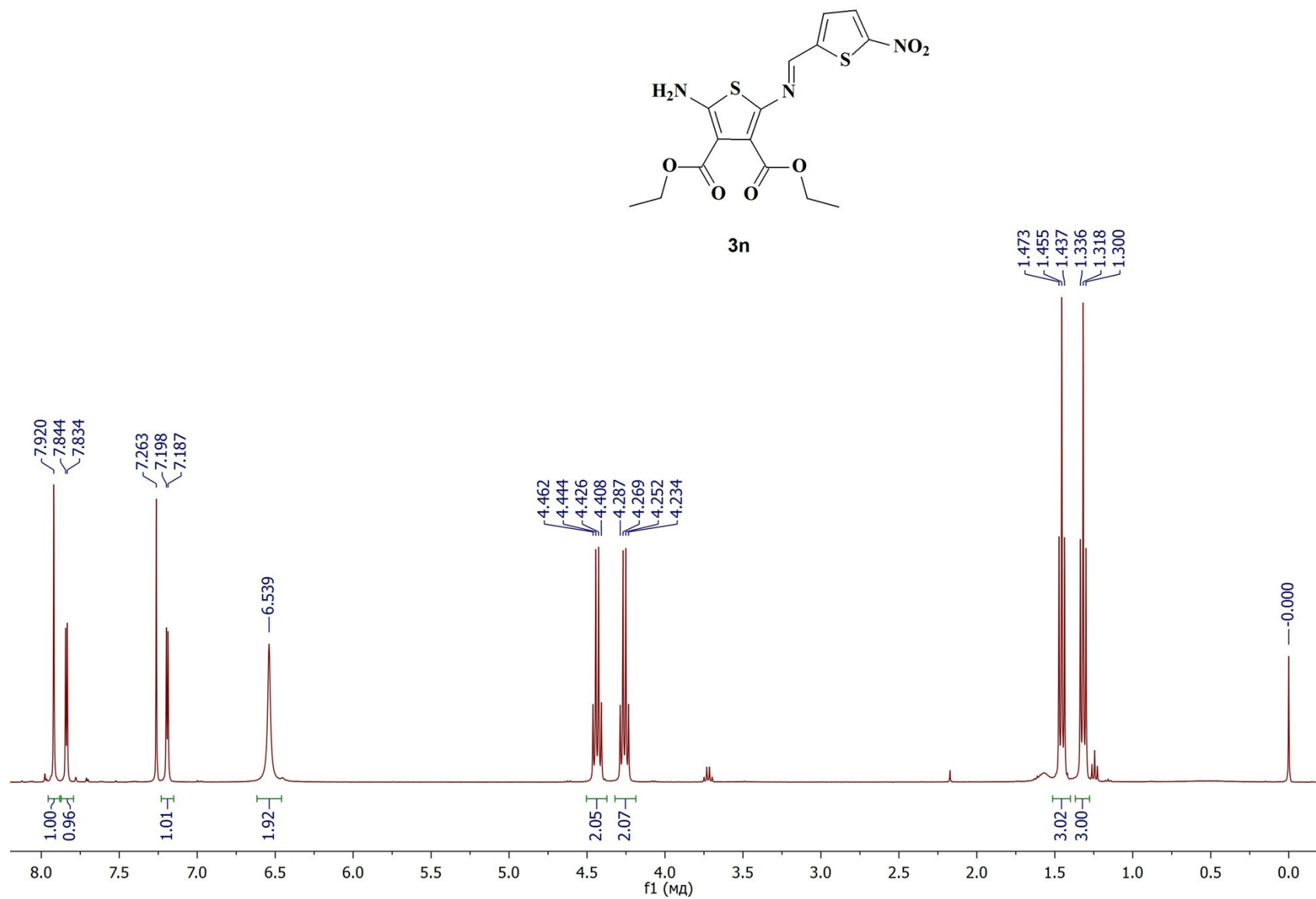


Figure SM-29. ^1H NMR spectrum of 3n

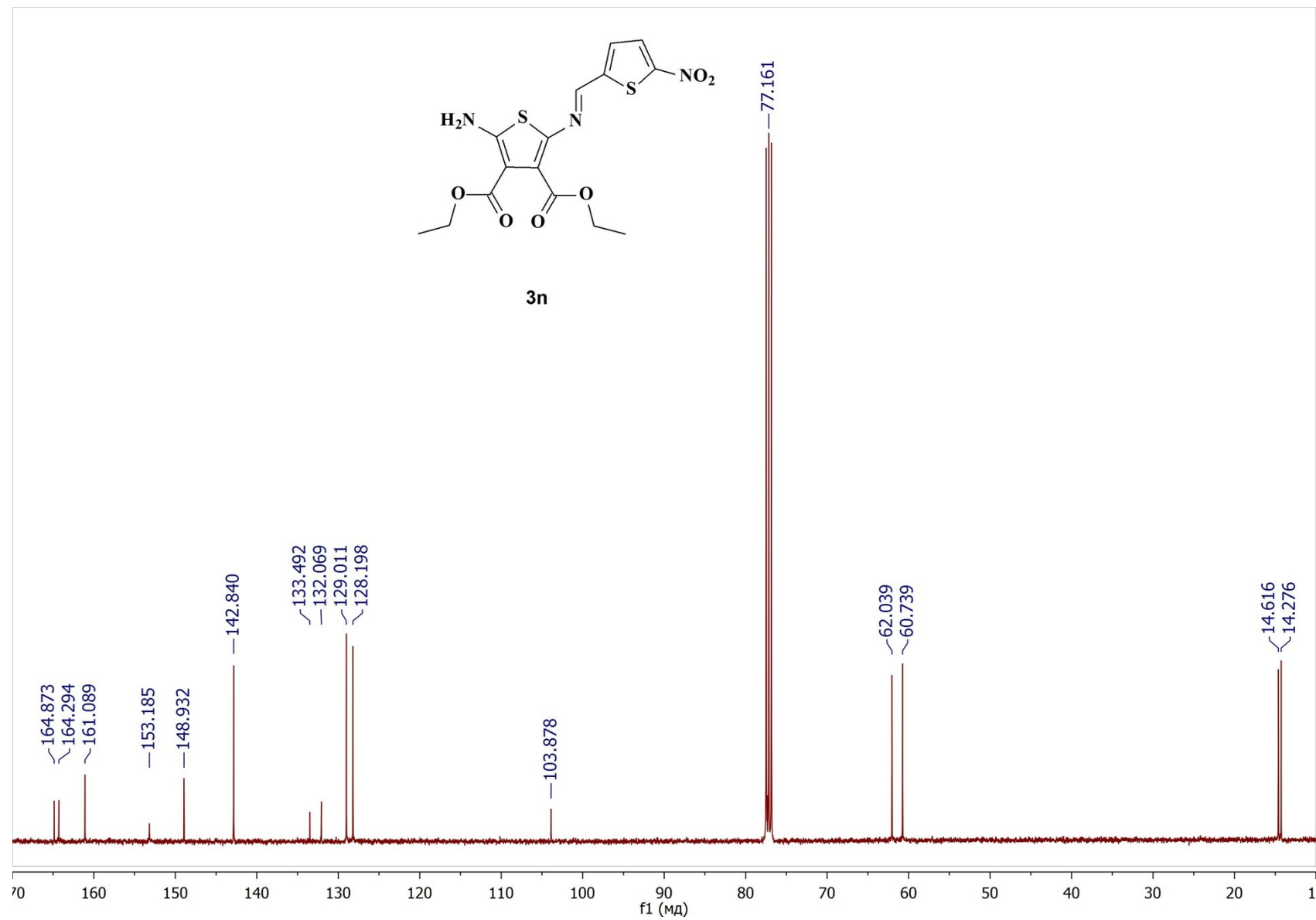


Figure SM-30. ^{13}C NMR spectrum of **3n**

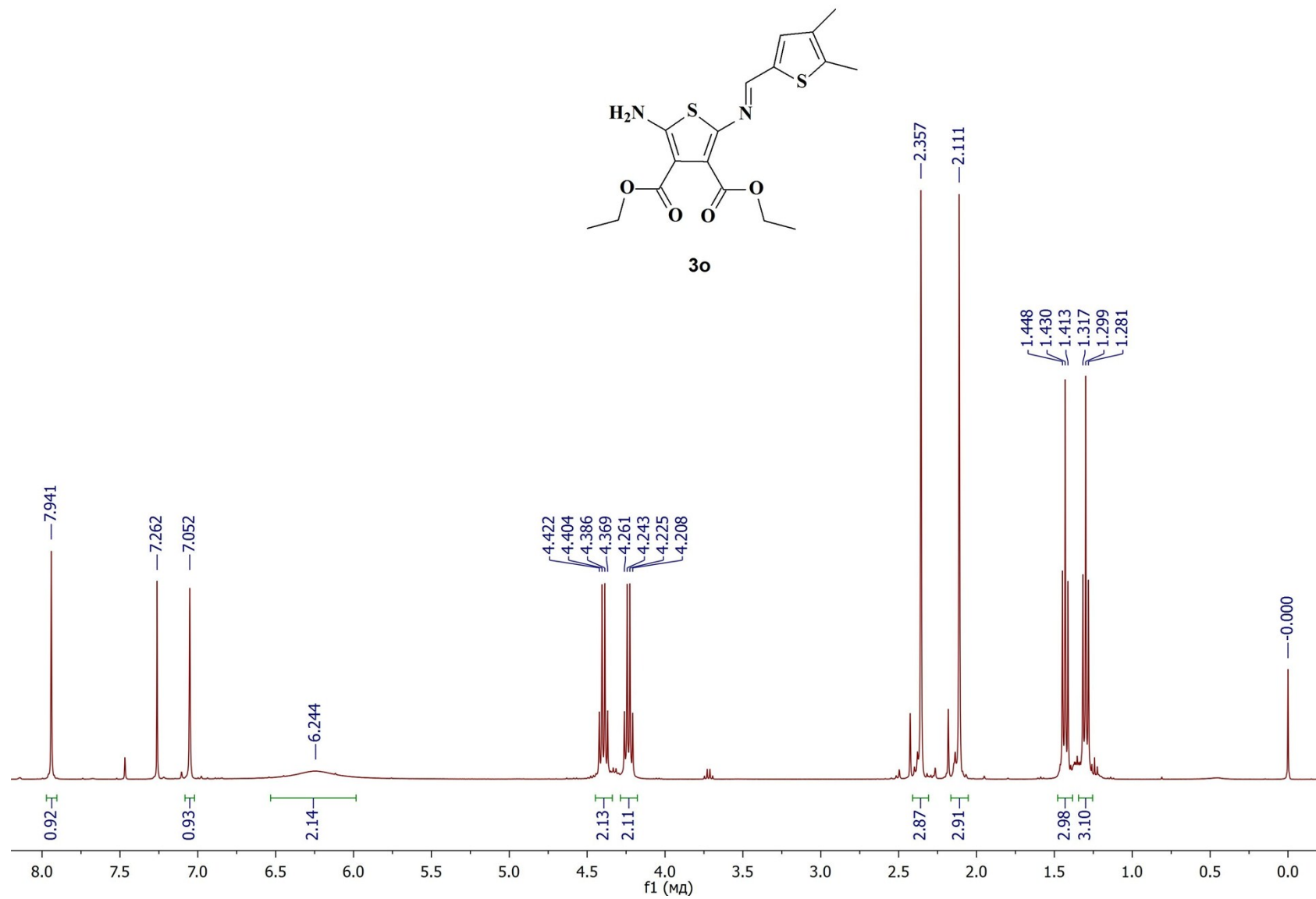


Figure SM-31. ¹H NMR spectrum of **3o**

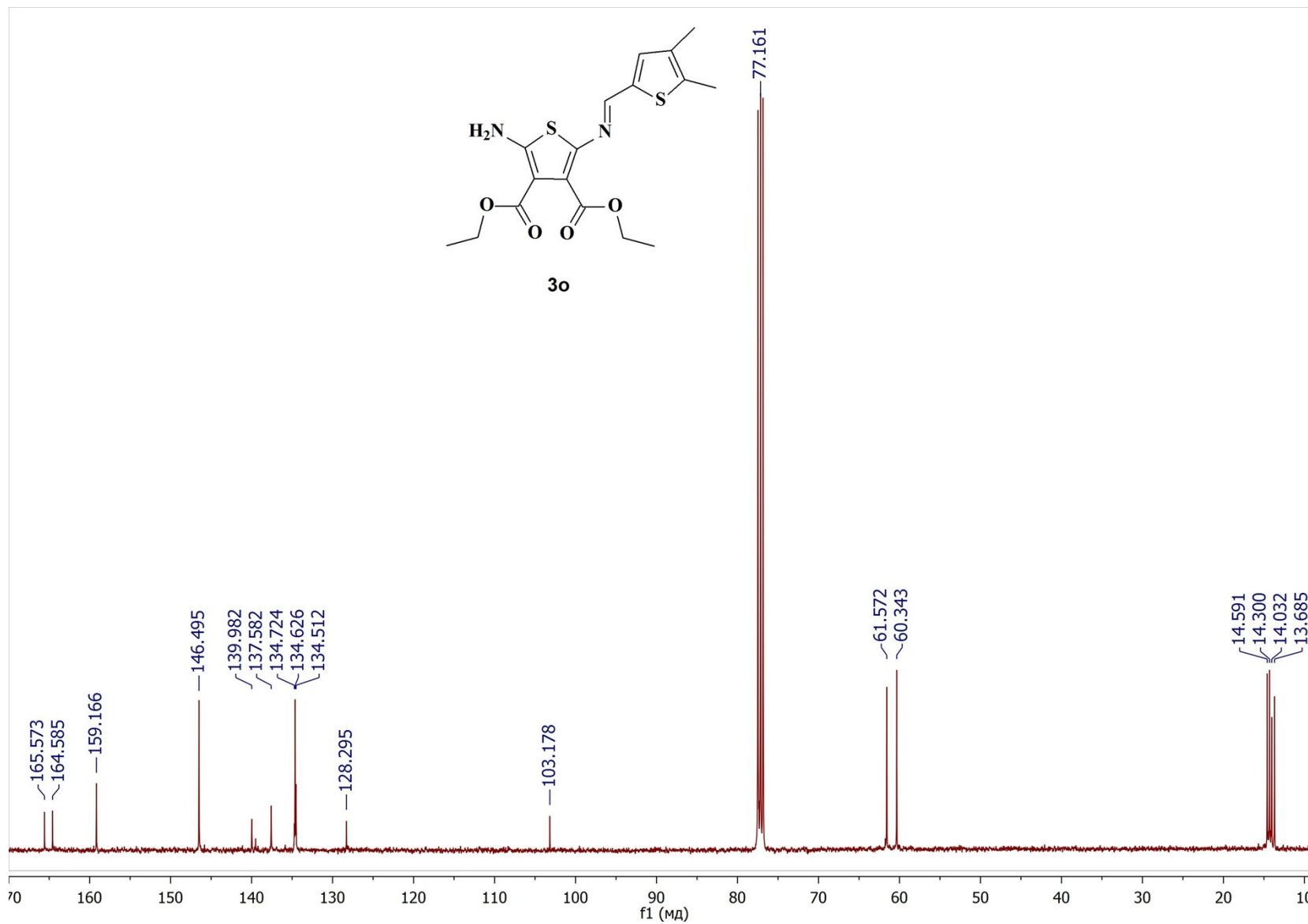


Figure SM-32. ^{13}C NMR spectrum of **3o**

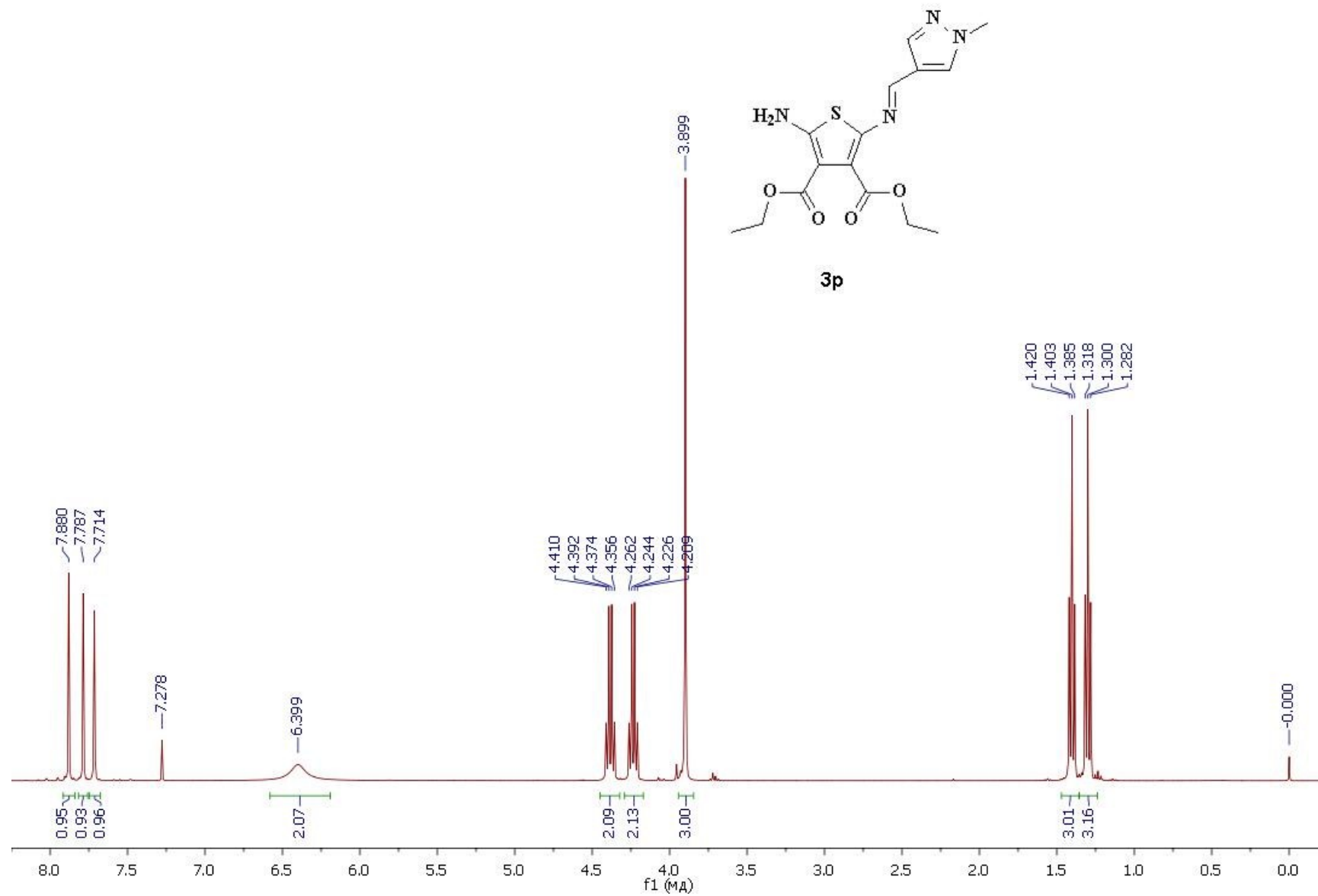


Figure SM-33. ¹H NMR spectrum of 3p

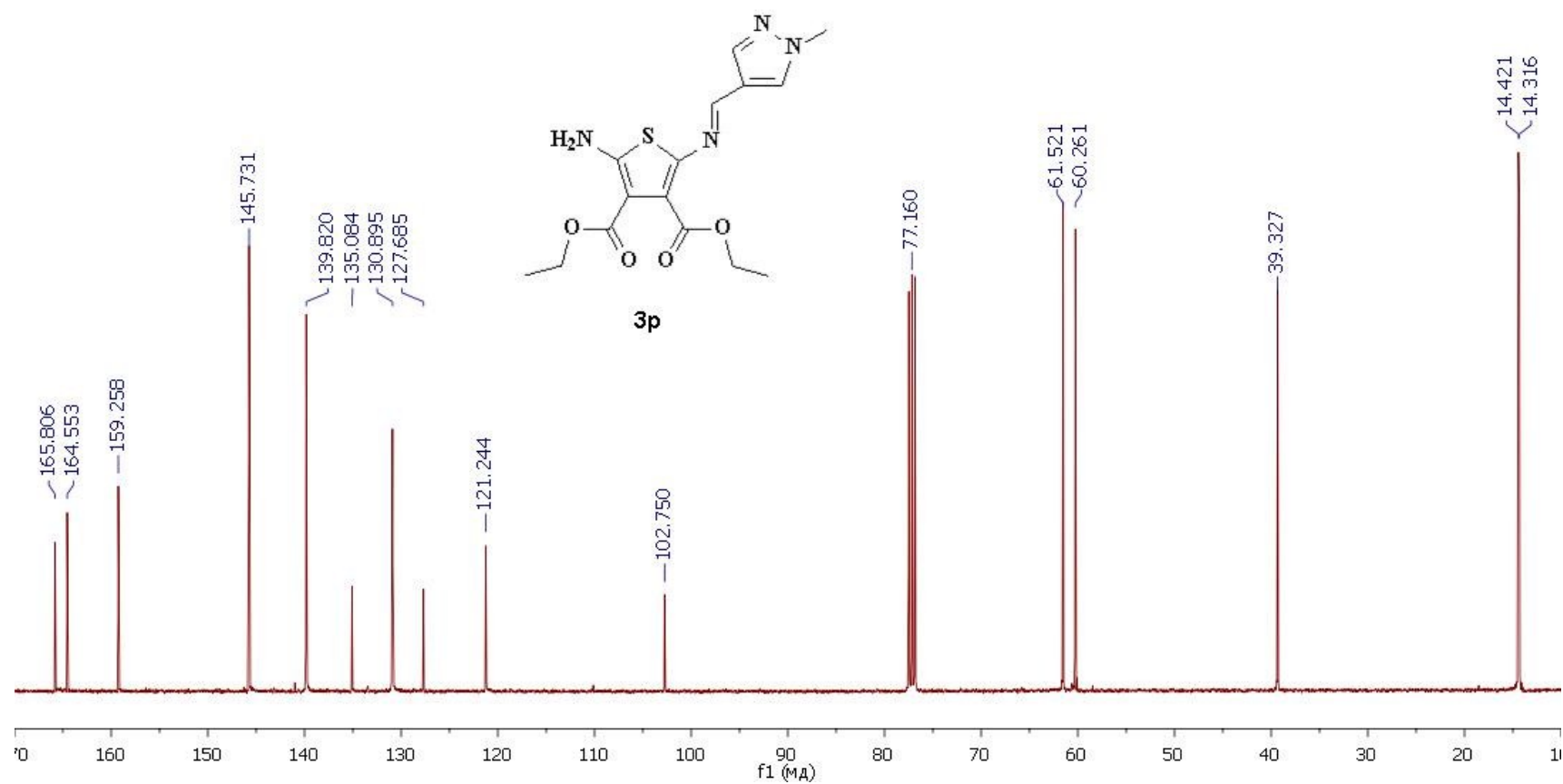
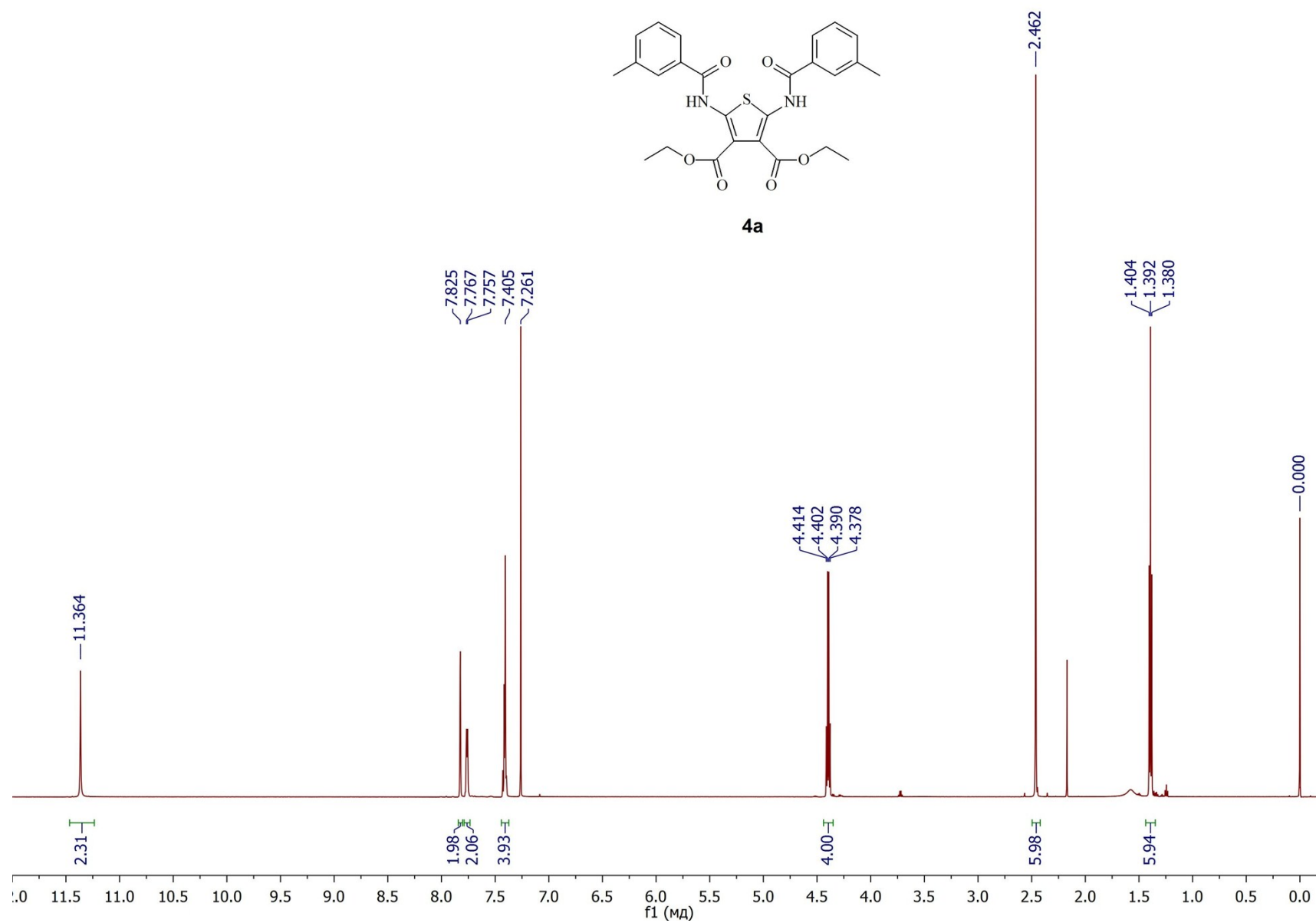


Figure SM-34. ^{13}C NMR spectrum of **3p**

Figure SM-35. ^1H NMR spectrum of 4a

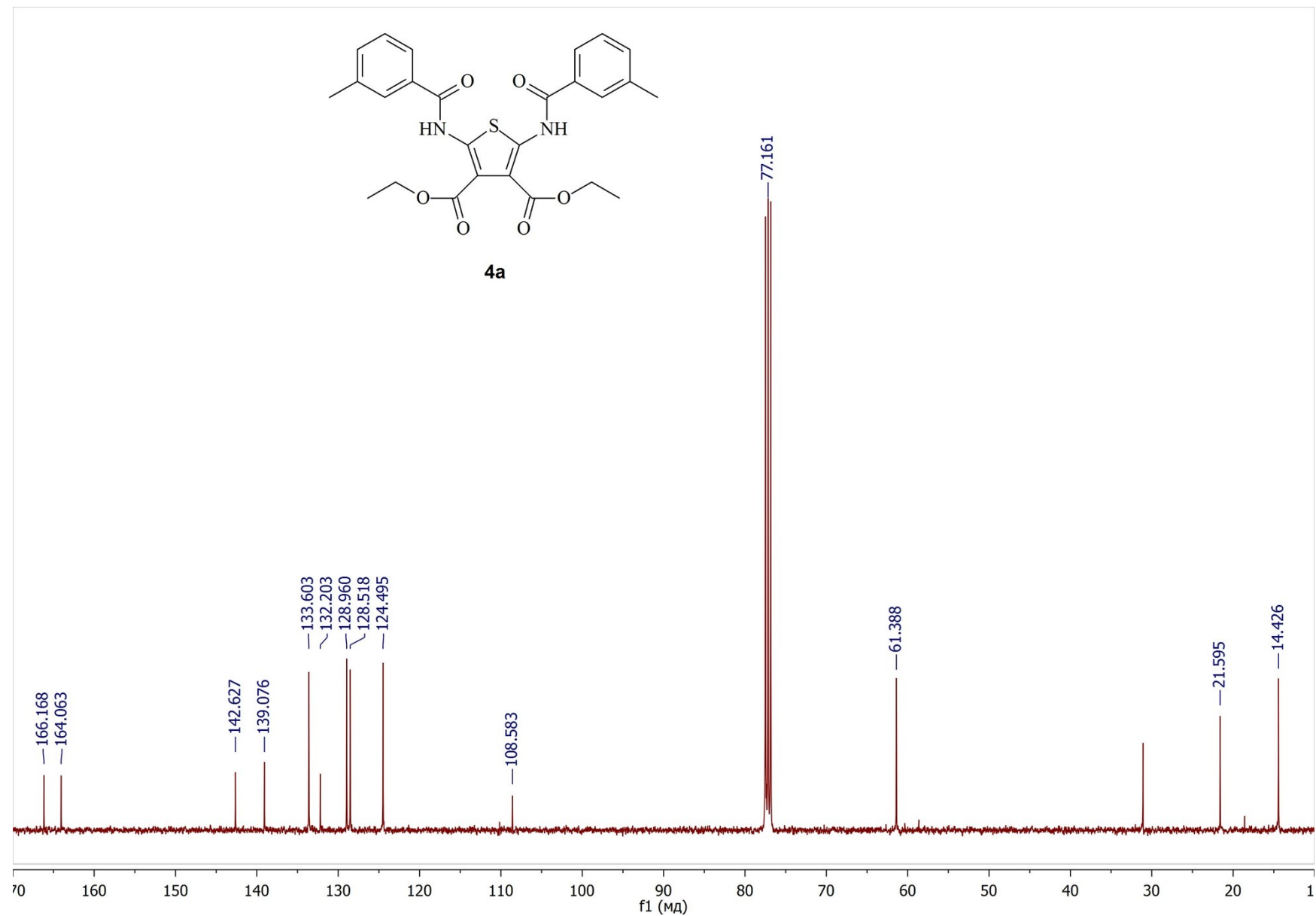
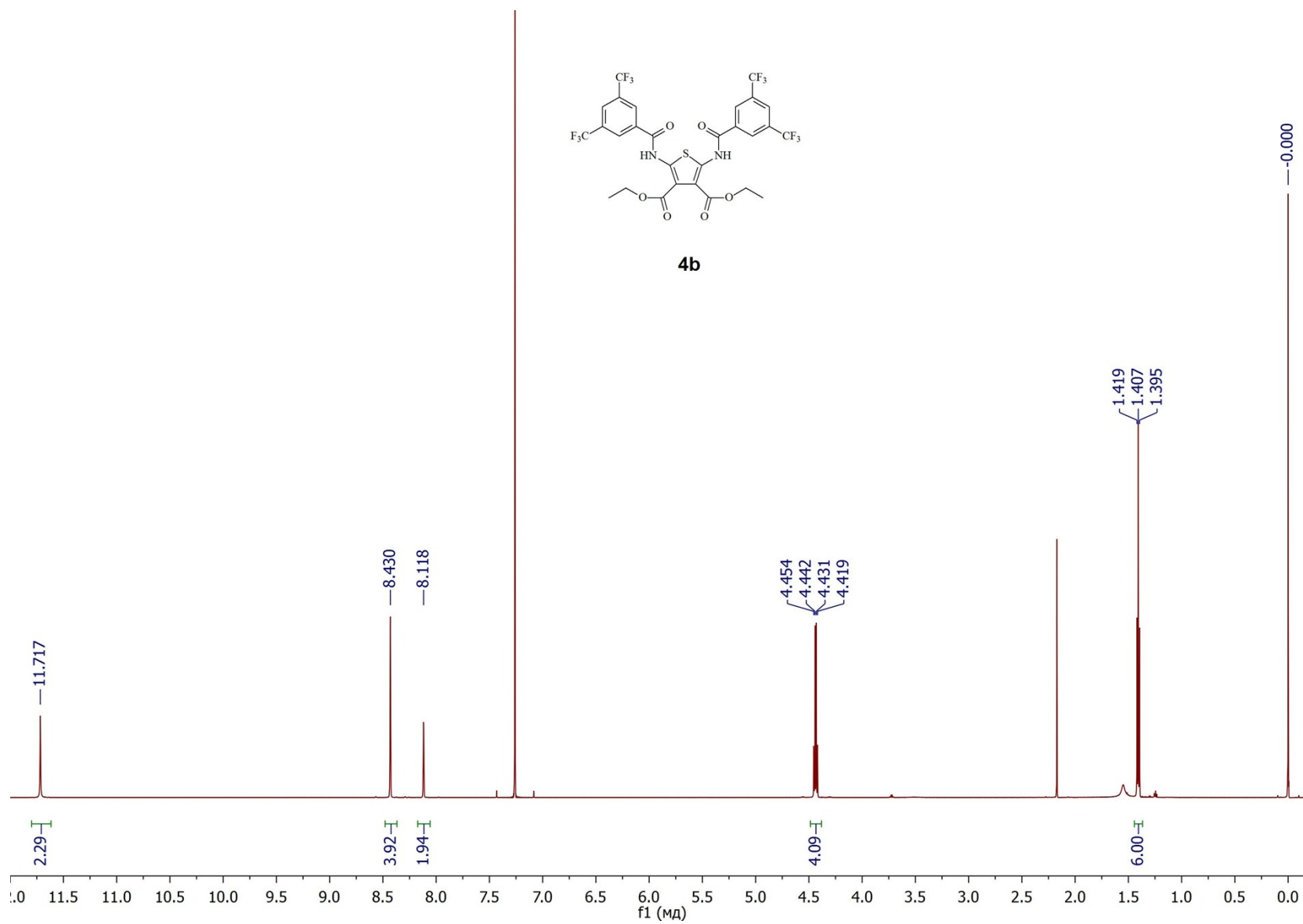
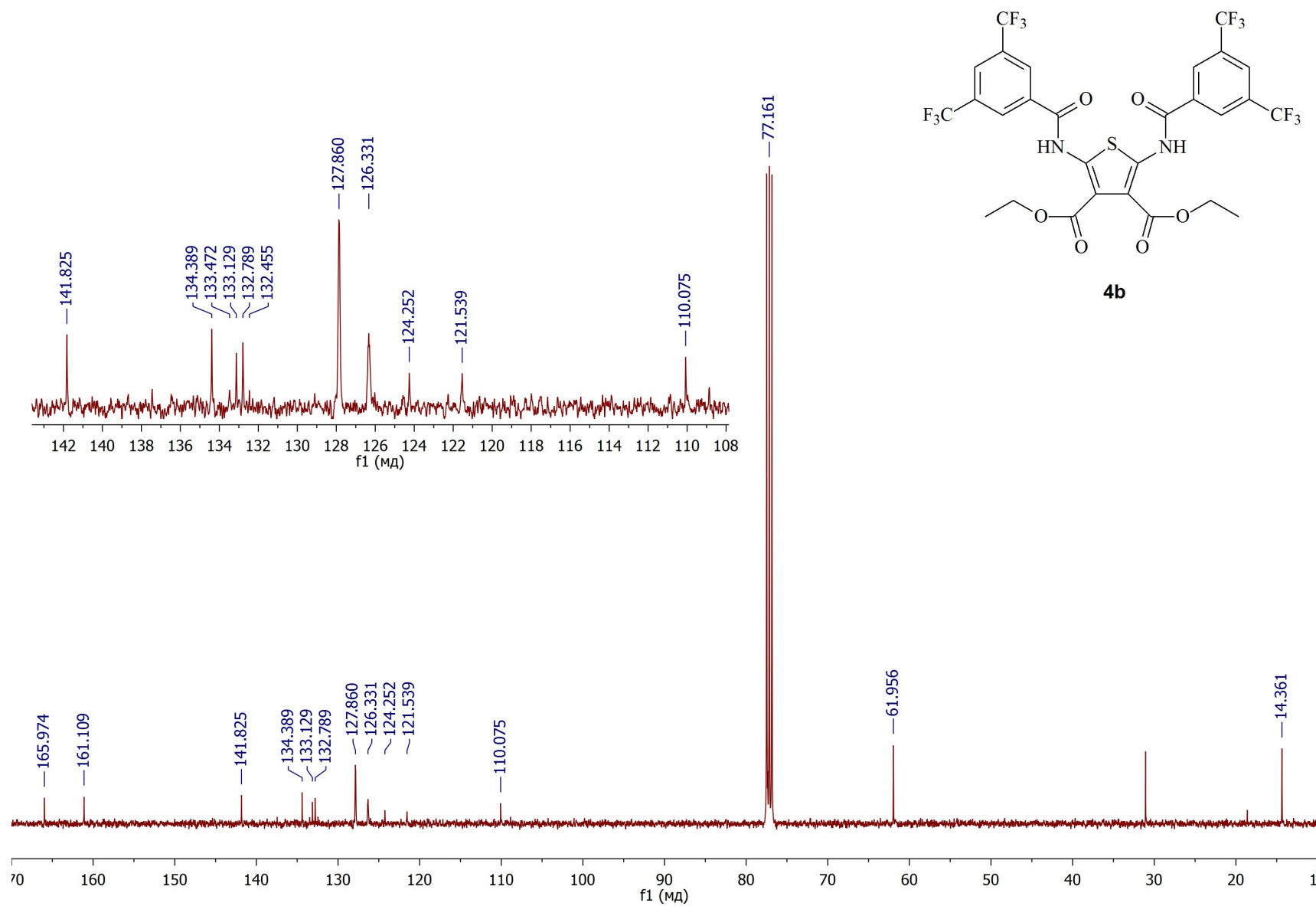


Figure SM-36. ^{13}C NMR spectrum of **4a**

Figure SM-37. ¹H NMR spectrum of 4b

Figure SM-38. ^{13}C NMR spectrum of **4b**

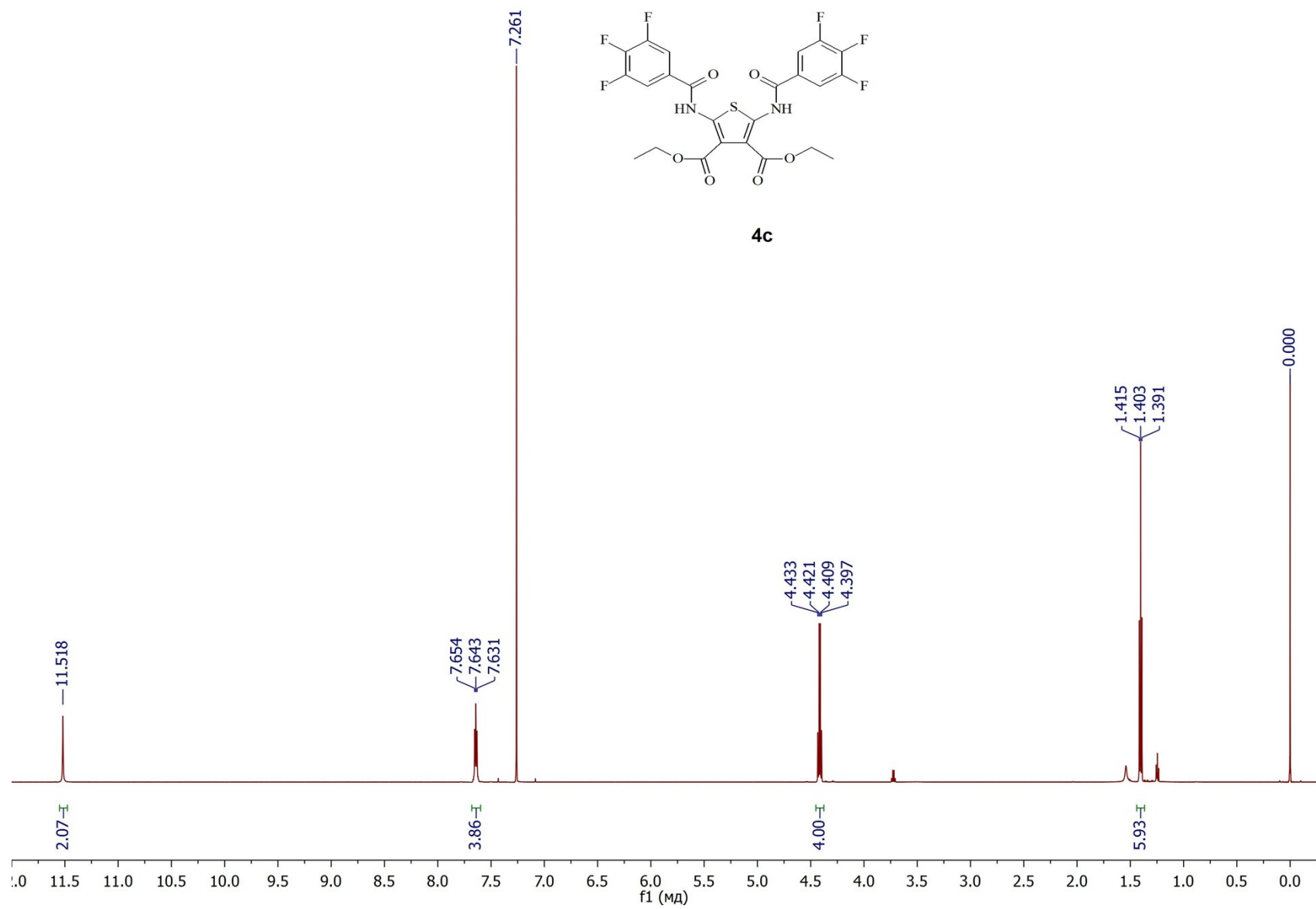


Figure SM-39. ¹H NMR spectrum of 4c

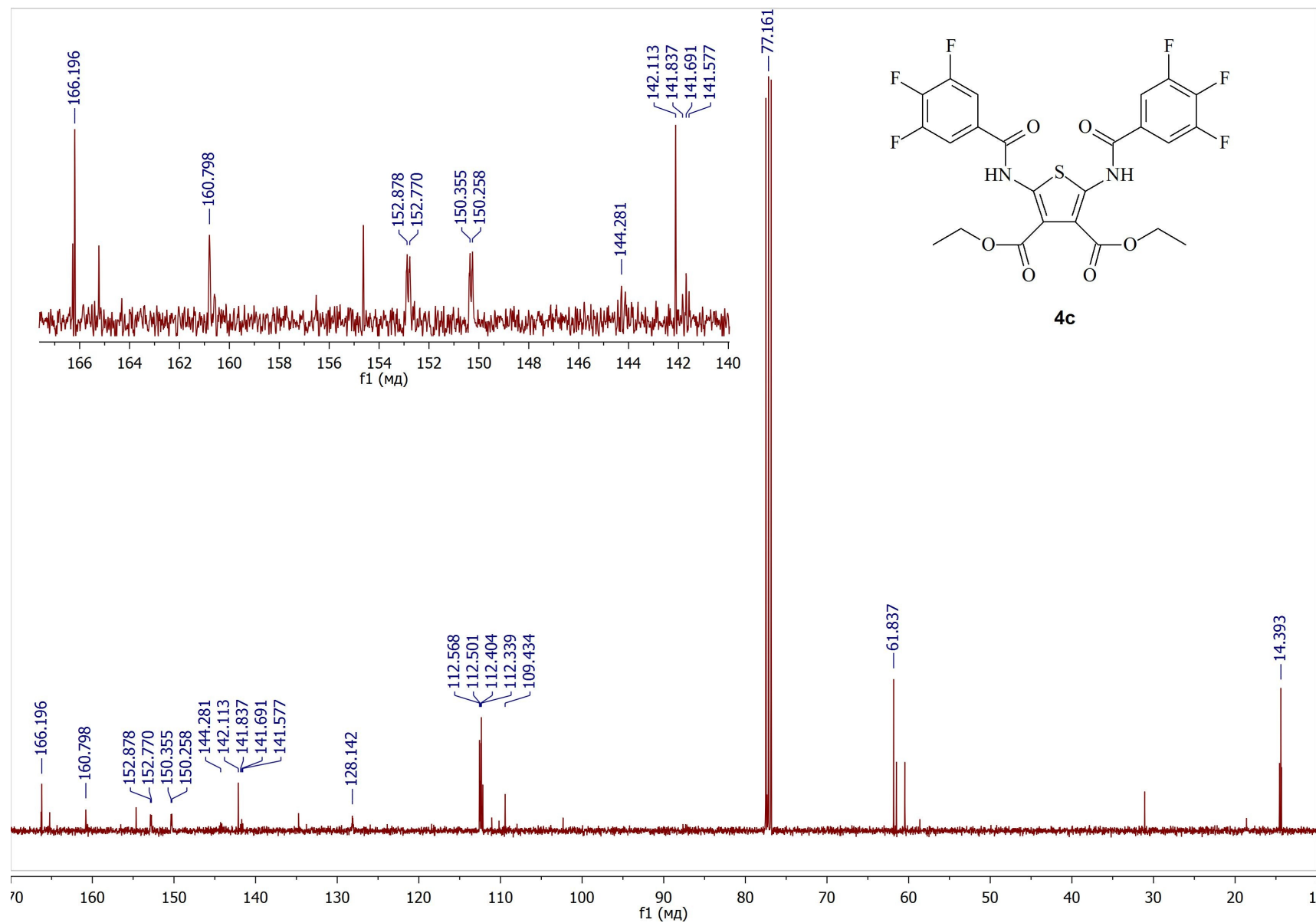


Figure SM-40. ^{13}C NMR spectrum of **4c**

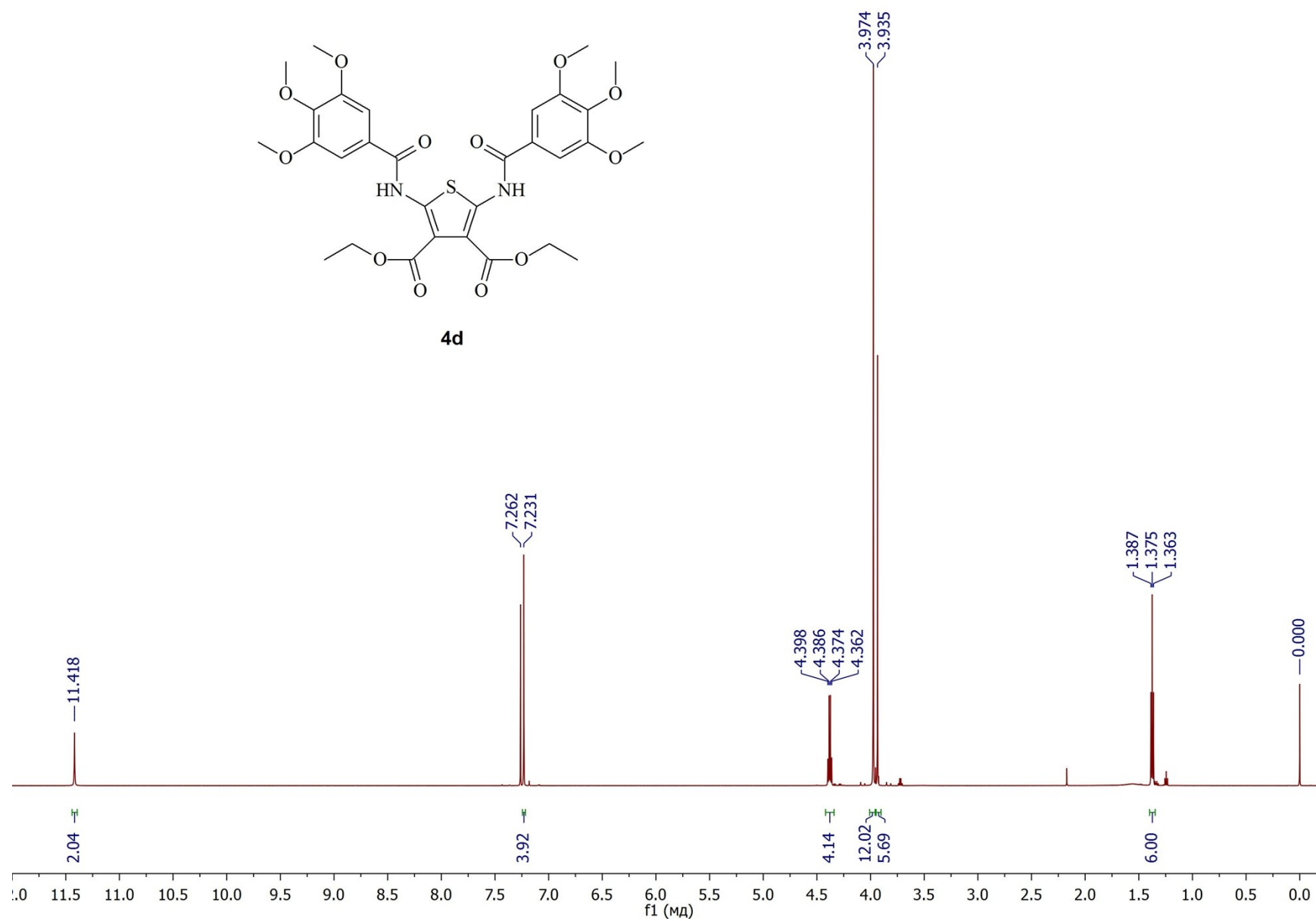


Figure SM-41. ^1H NMR spectrum of 4d

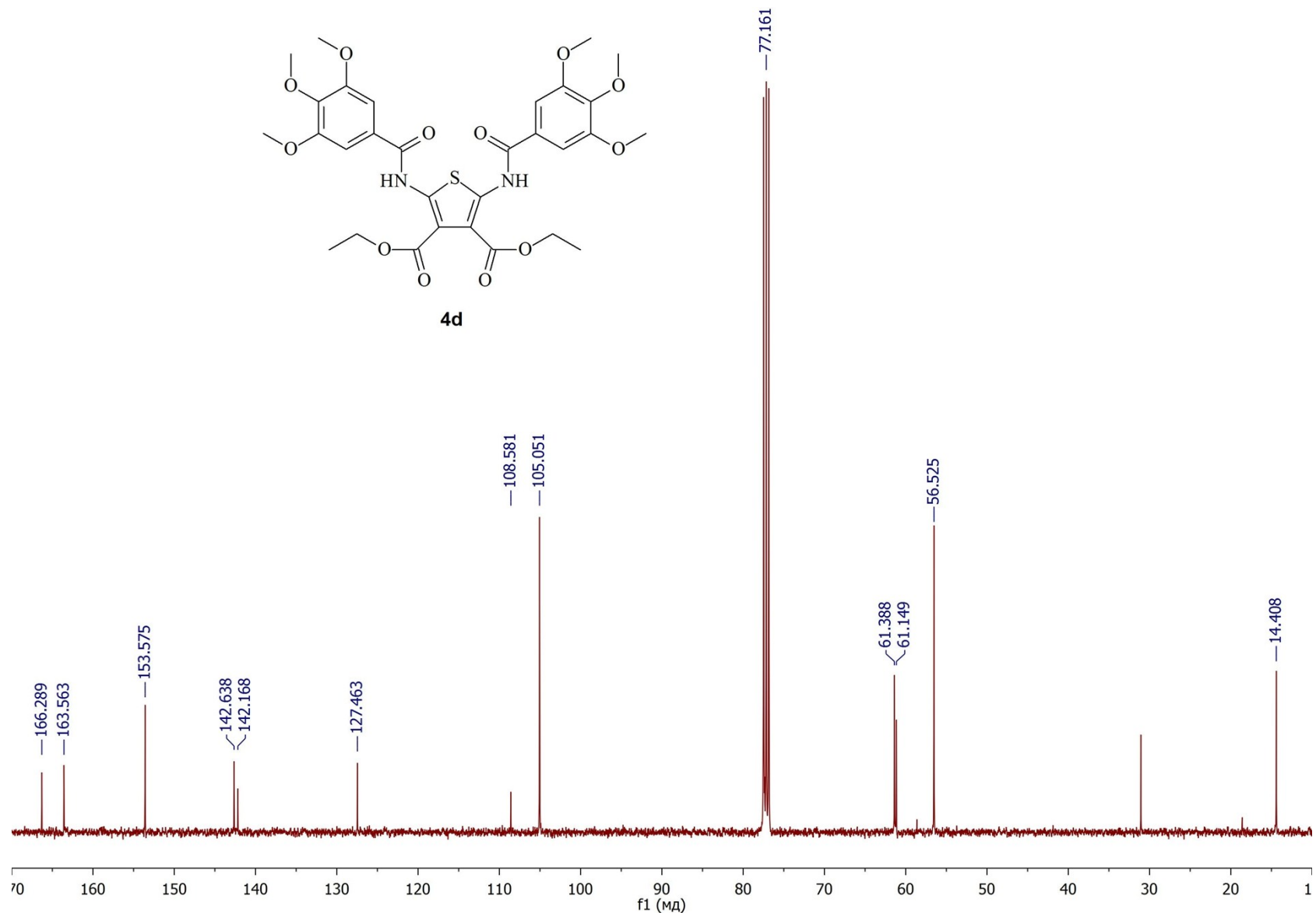
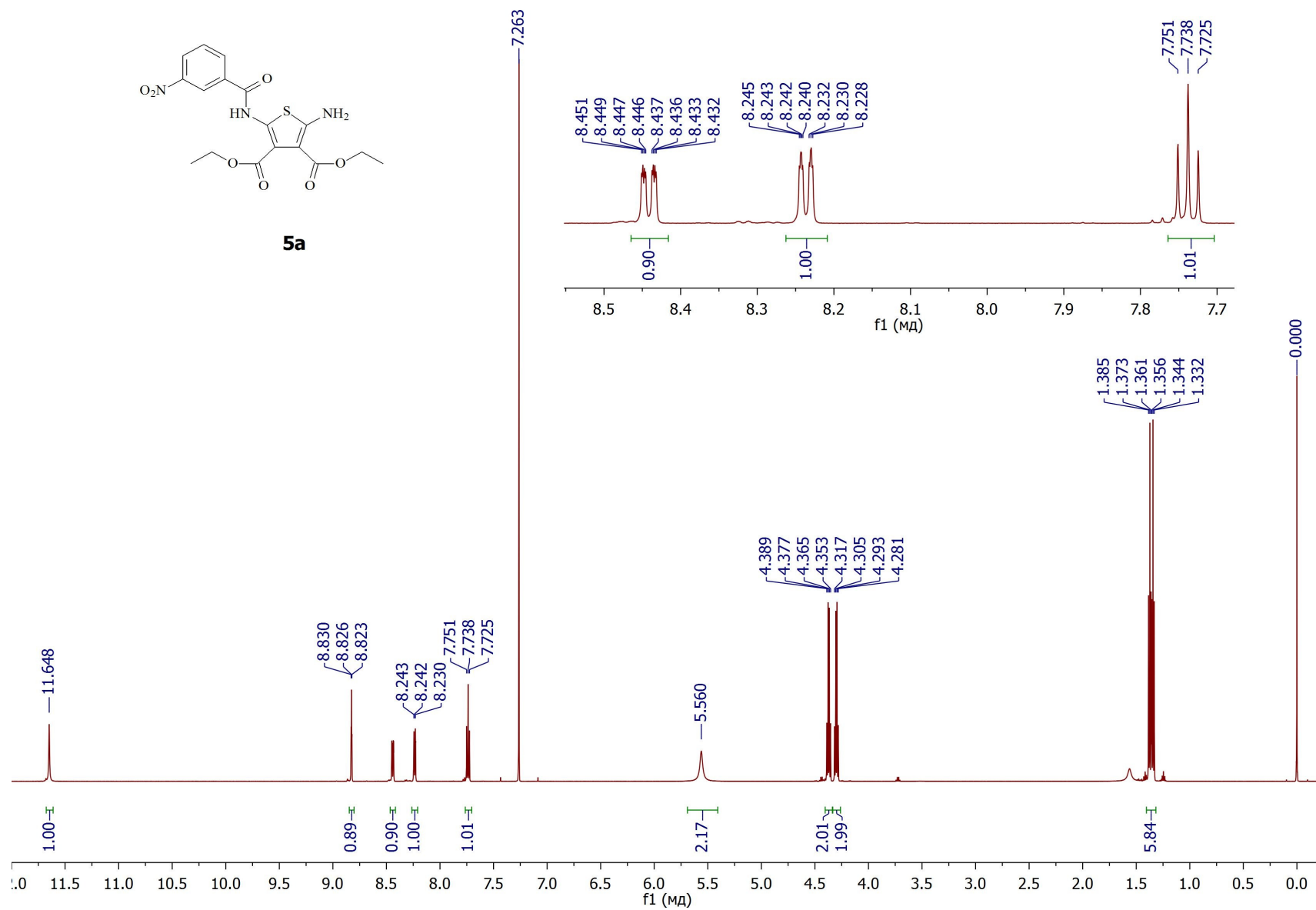


Figure SM-42. ¹³C NMR spectrum of 4d

Figure SM-43. ¹H NMR spectrum of 5a

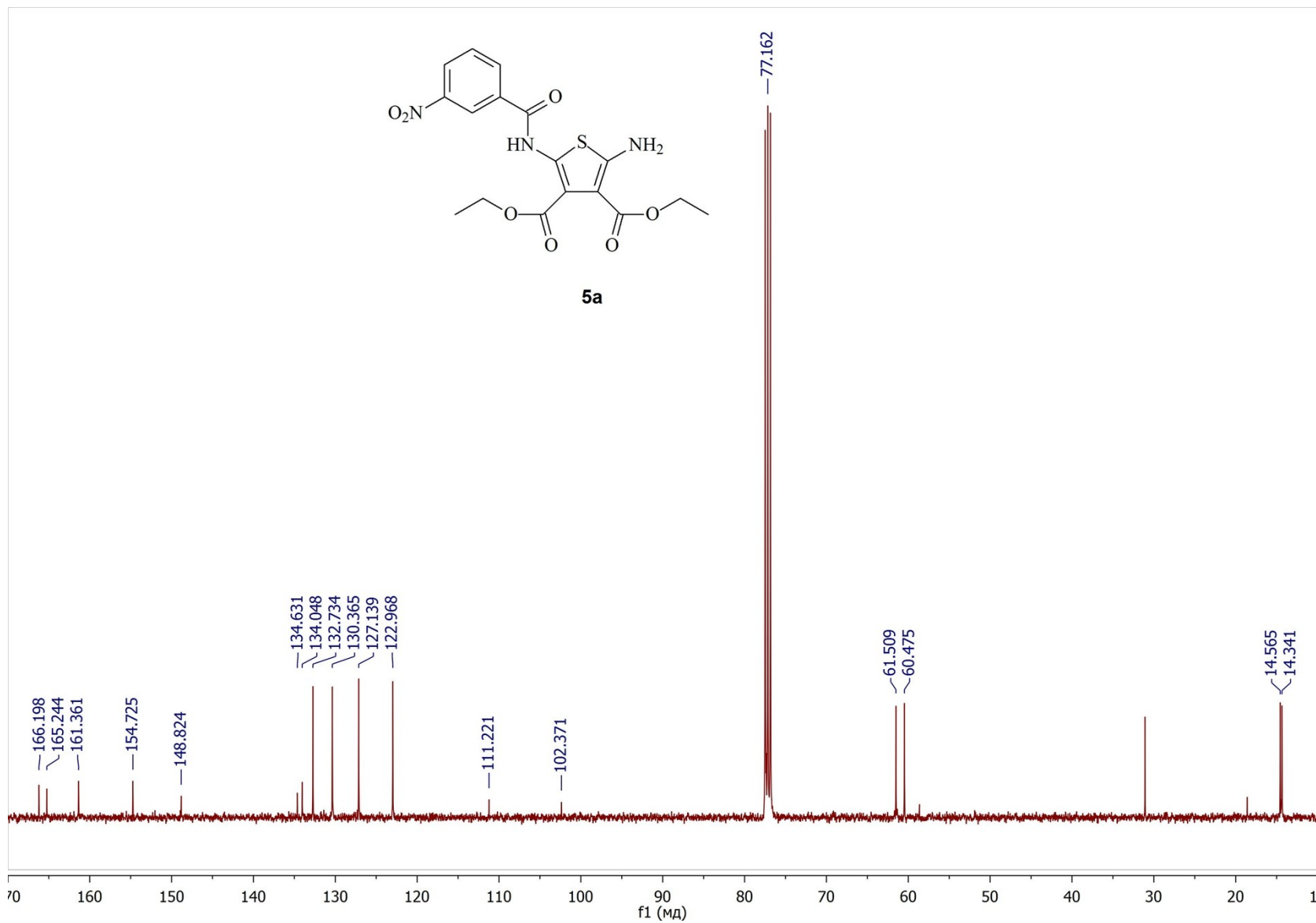


Figure SM-44. ^{13}C NMR spectrum of **5a**

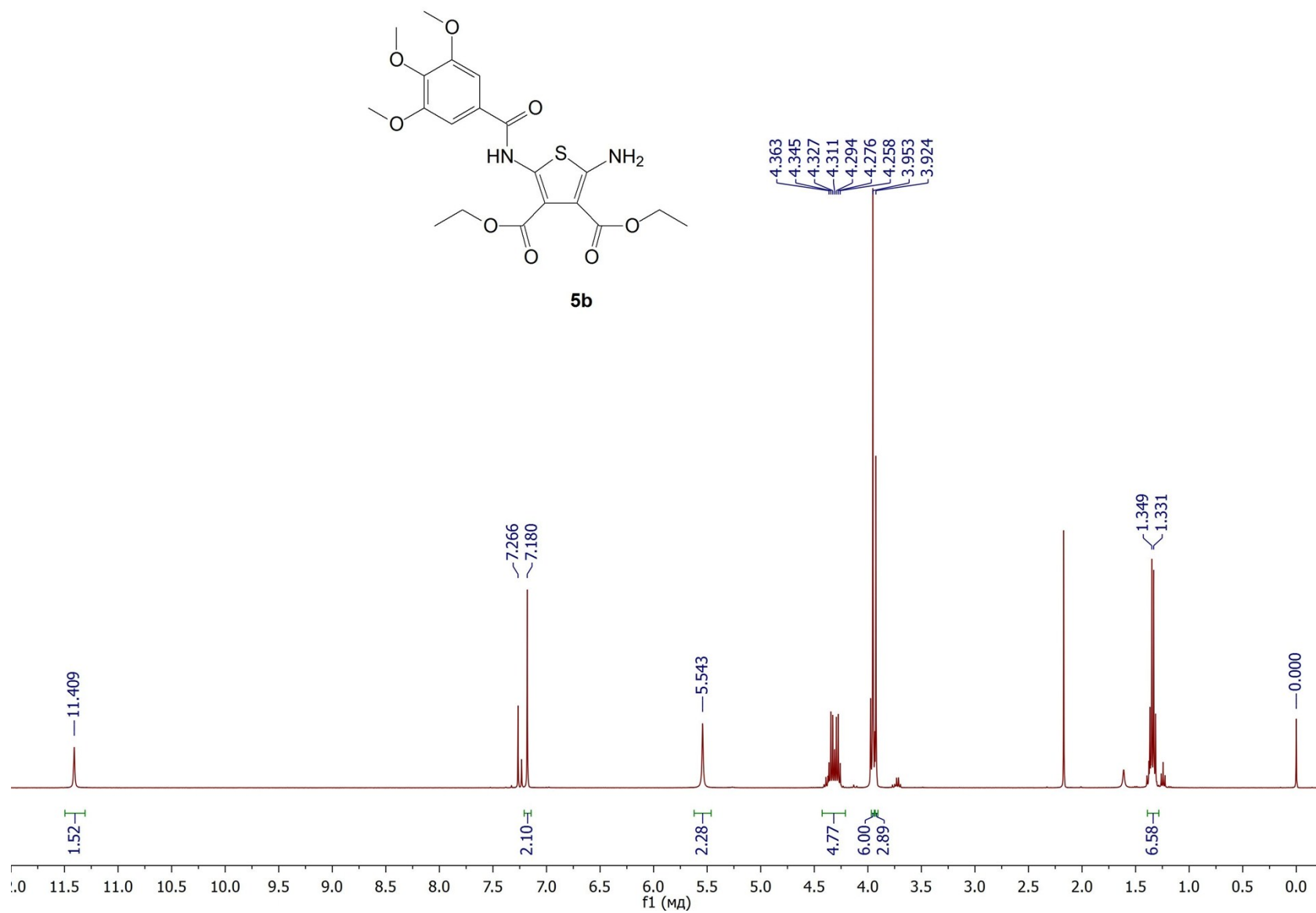


Figure SM-45. ¹H NMR spectrum of 5b

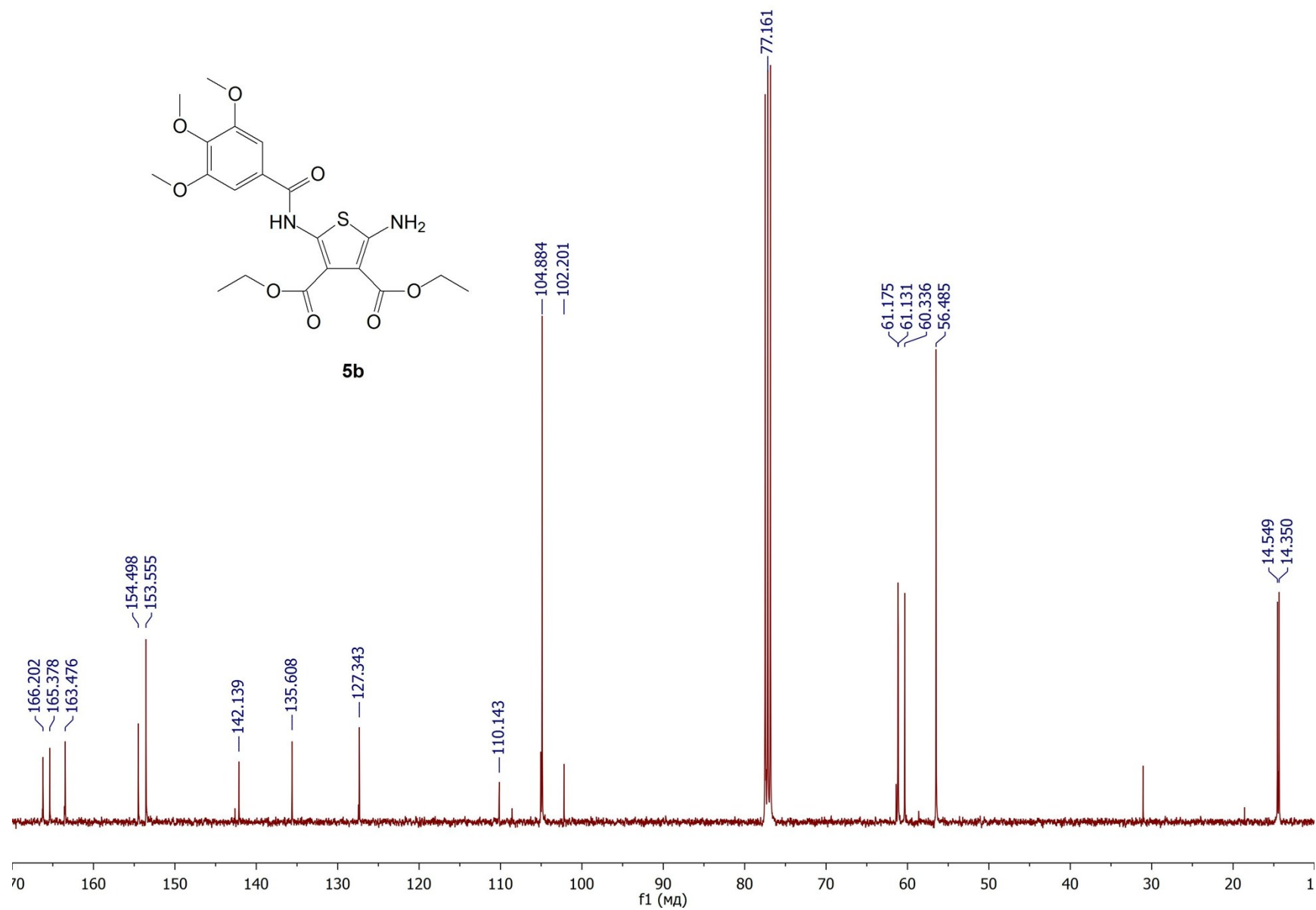


Figure SM-46. ^{13}C NMR spectrum of **5b**

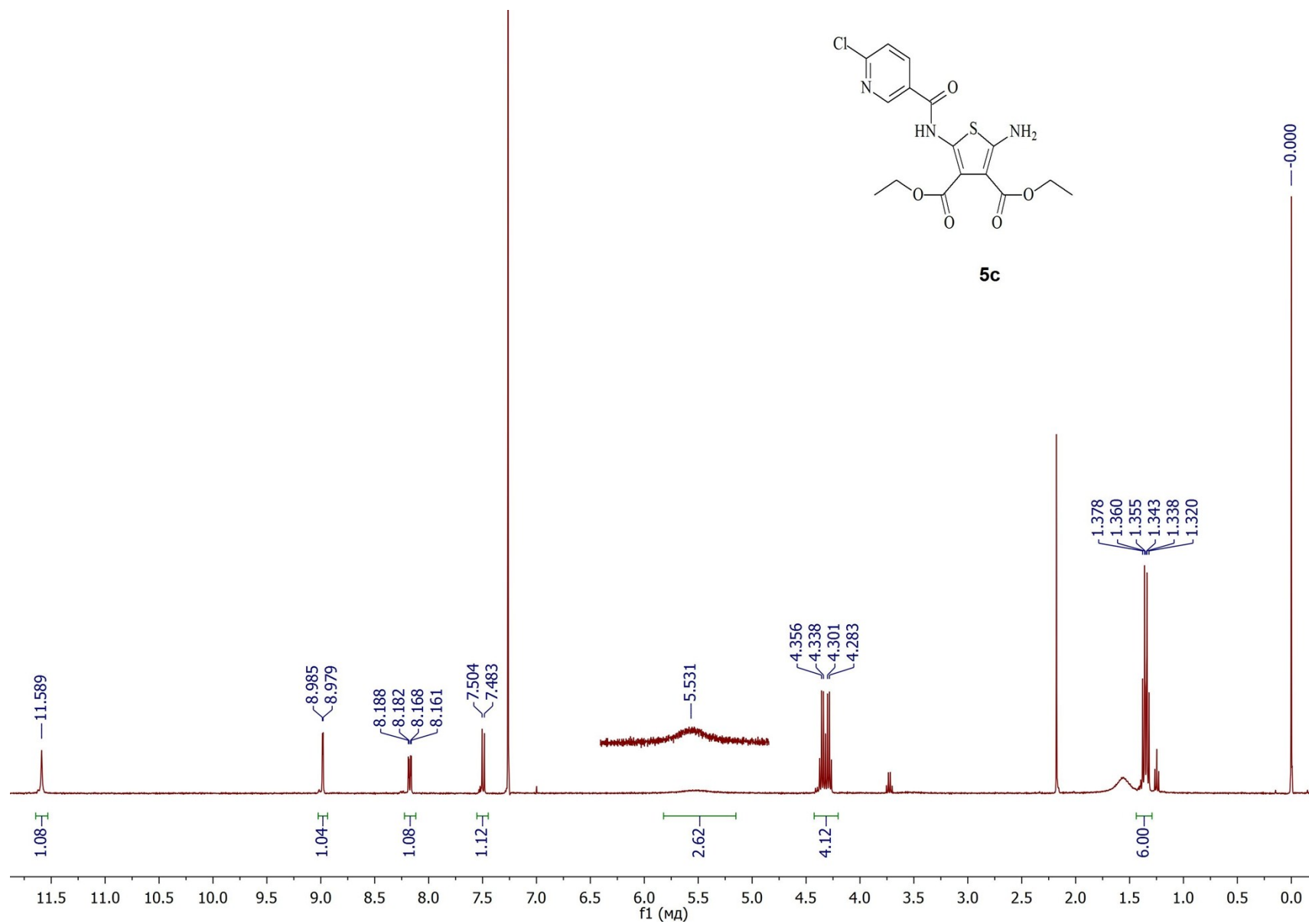


Figure SM-47. ¹H NMR spectrum of 5c

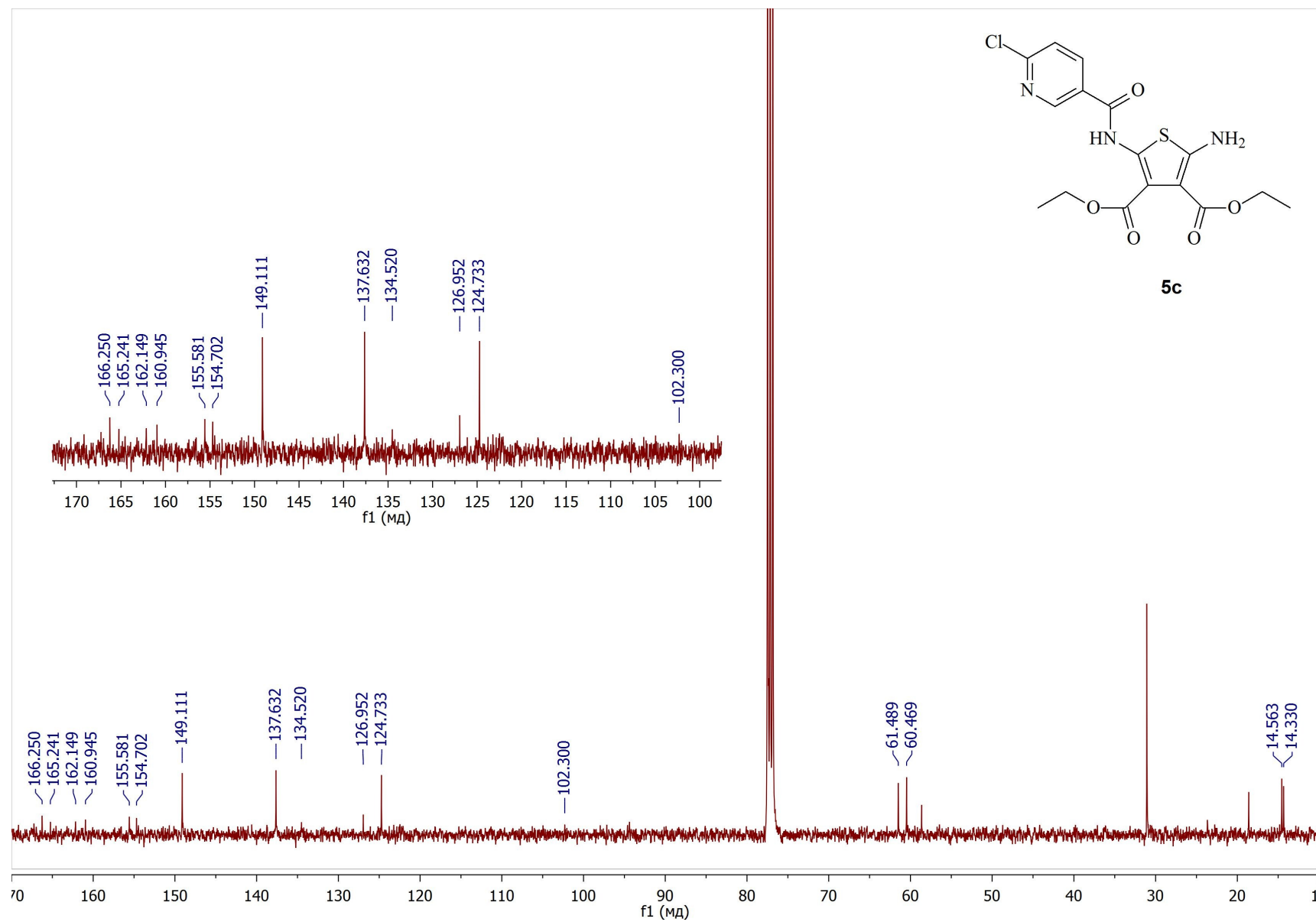


Figure SM-48. ^{13}C NMR spectrum of **5c**