

Supplementary Materials: Synthesis and Antibacterial Evaluation of New Sulfone Derivatives Containing 2-Aroxymethyl-1,3,4-Oxadiazole/Thiadiazole Moiety

Shihu Su, Xia Zhou, Guoping Liao, Puying Qi and Linhong Jin

^1H and ^{13}C NMR spectra of target compound 5.

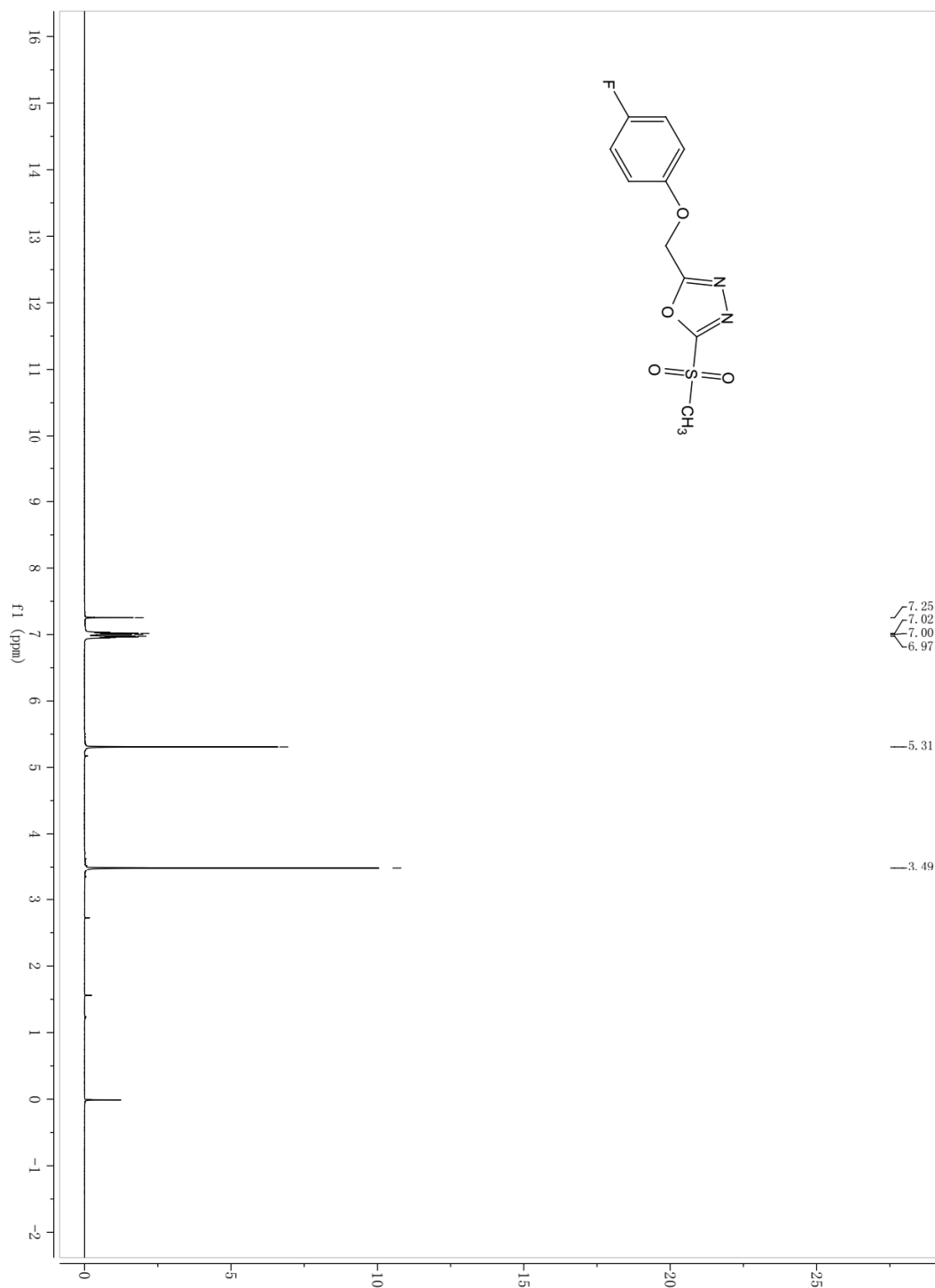
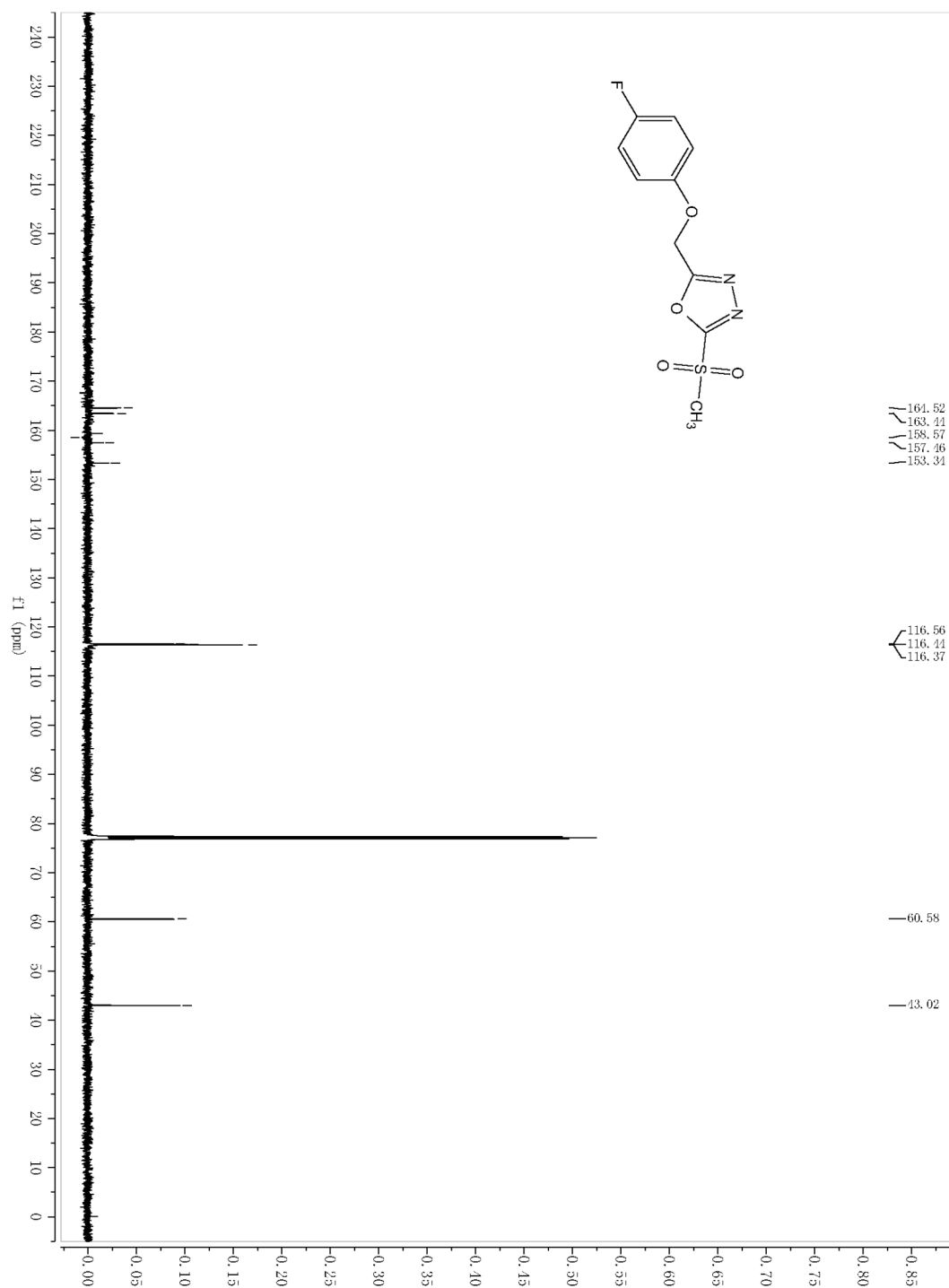
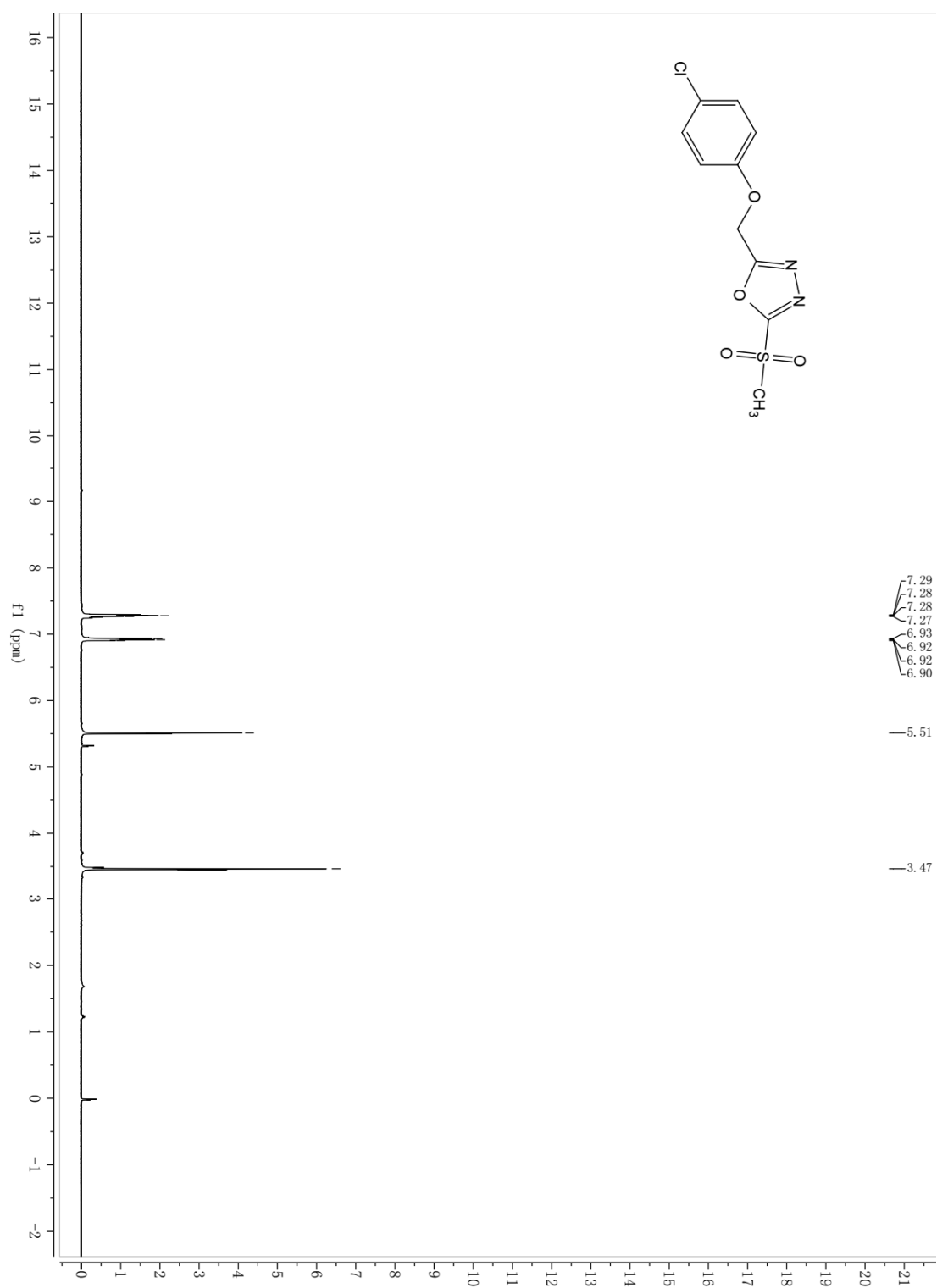
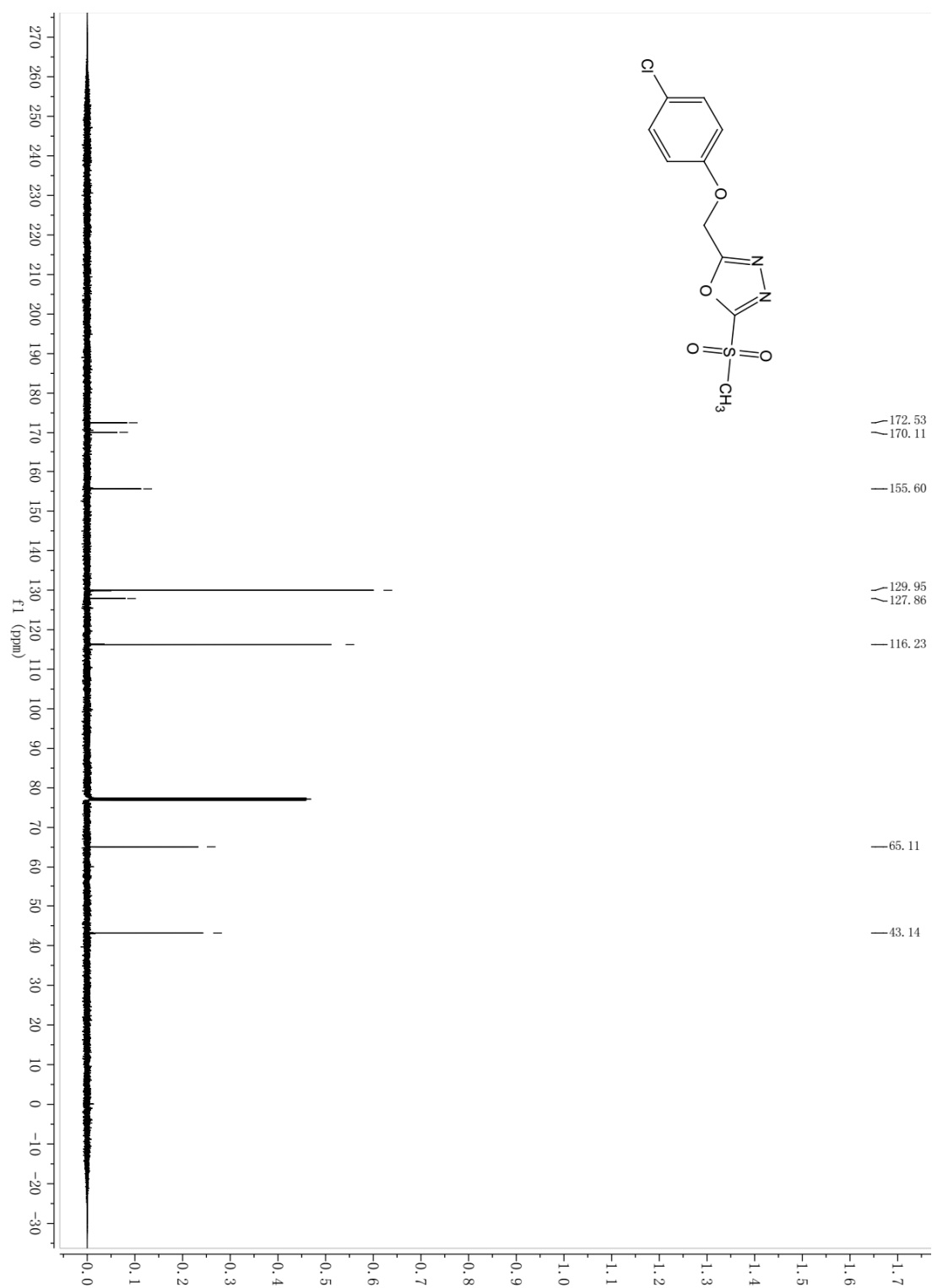
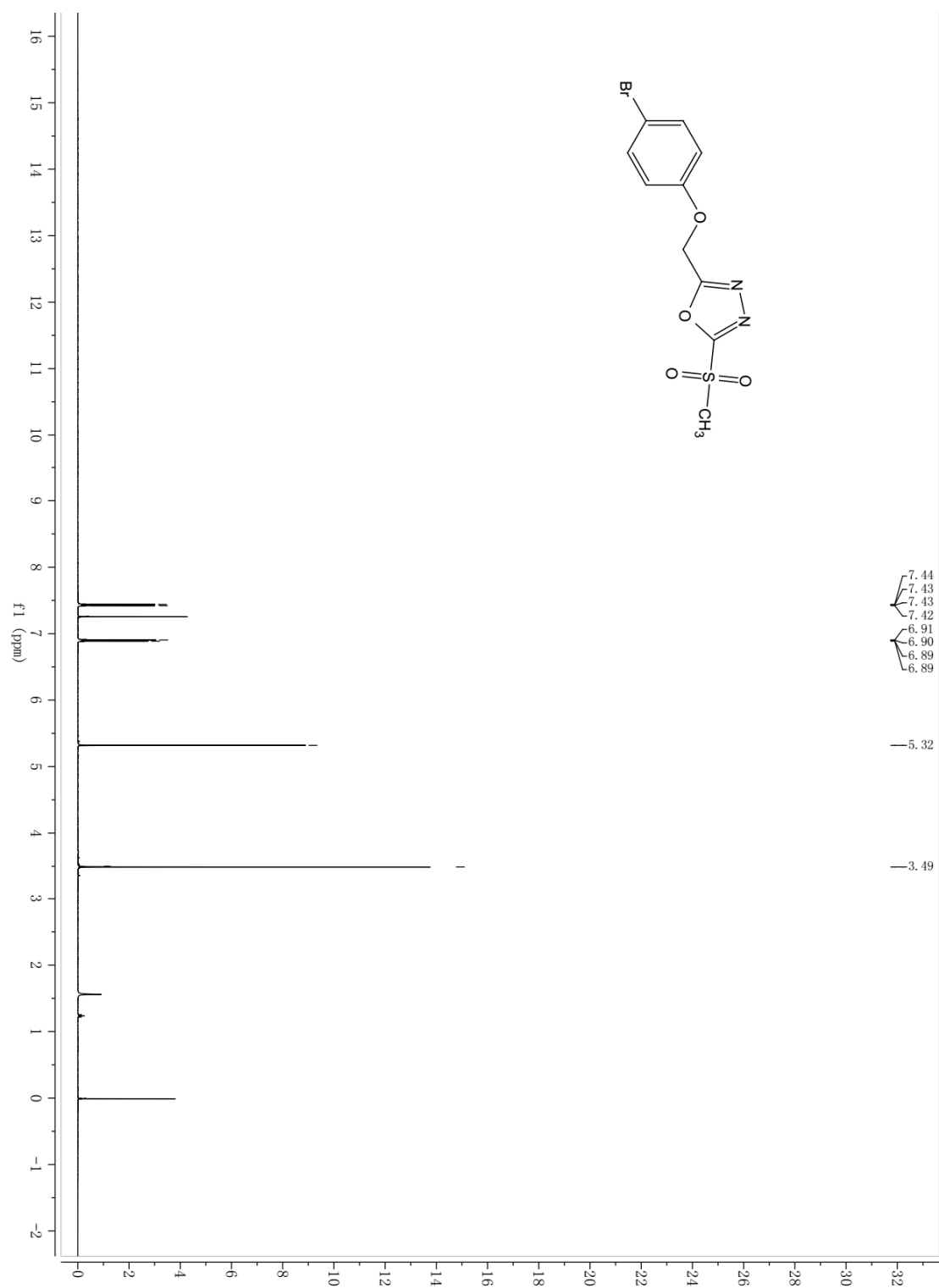


Figure S1. ^1H NMR spectrum of compound 5I-1.

**Figure S2.** ^{13}C NMR spectrum of compound 5I-1.

**Figure S3.** ¹H NMR spectrum of compound 5I-2.

**Figure S4.** ^{13}C NMR spectrum of compound 5I-2.

**Figure S5.** ¹H NMR spectrum of compound 5I-3.

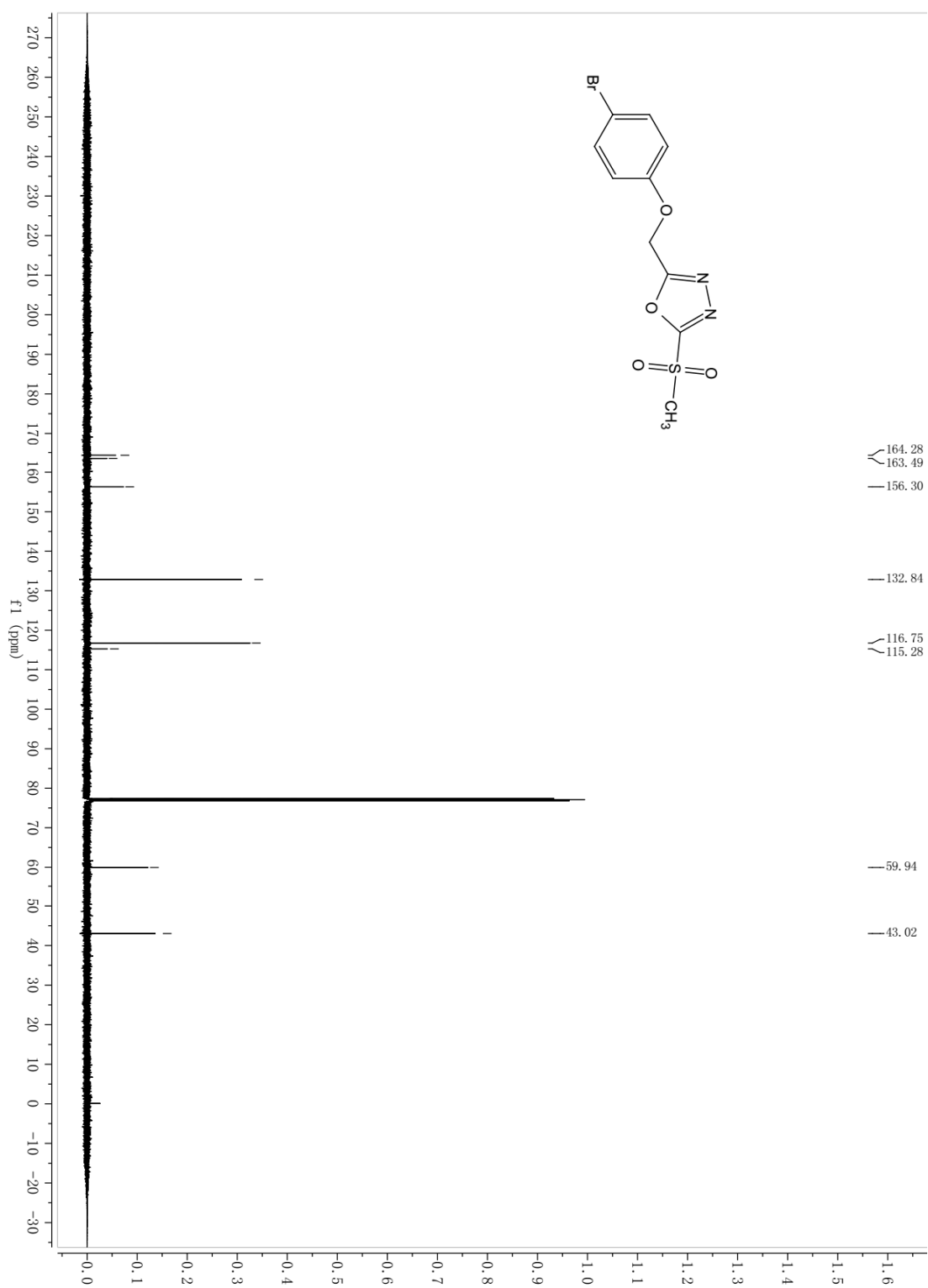
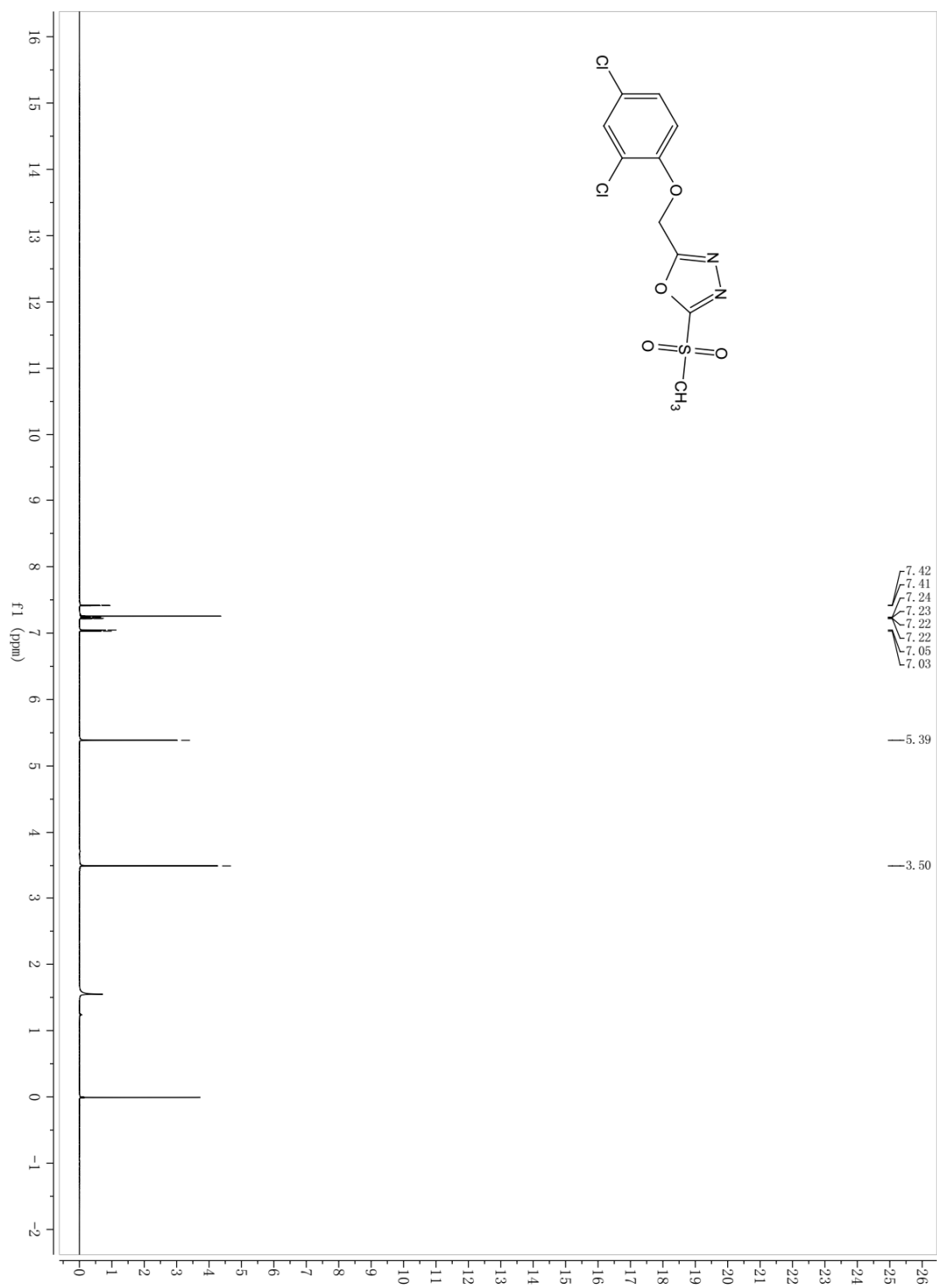


Figure S6. ^{13}C NMR spectrum of compound 5I-3.

**Figure S7.** ¹H NMR spectrum of compound 5I-4.

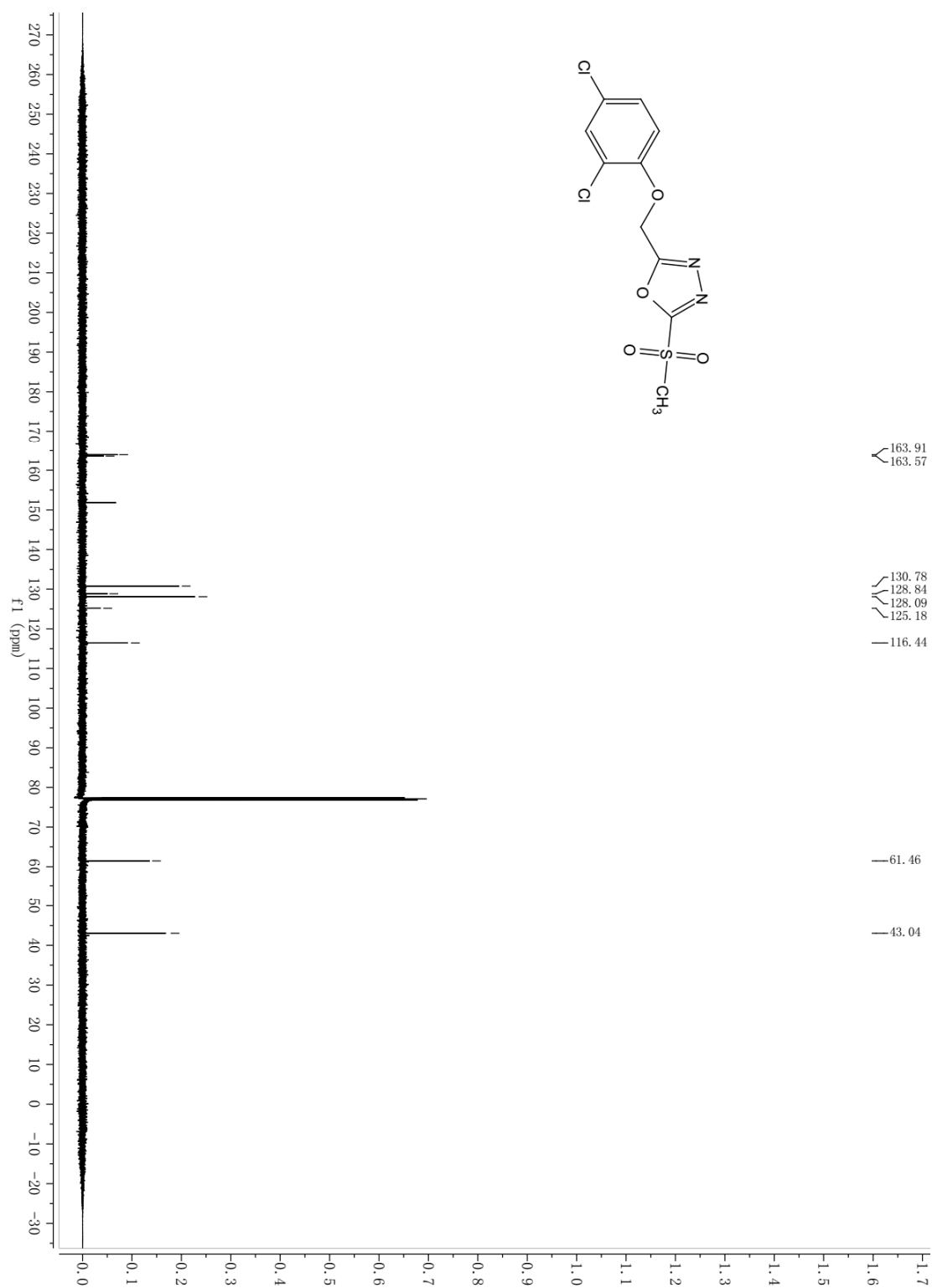
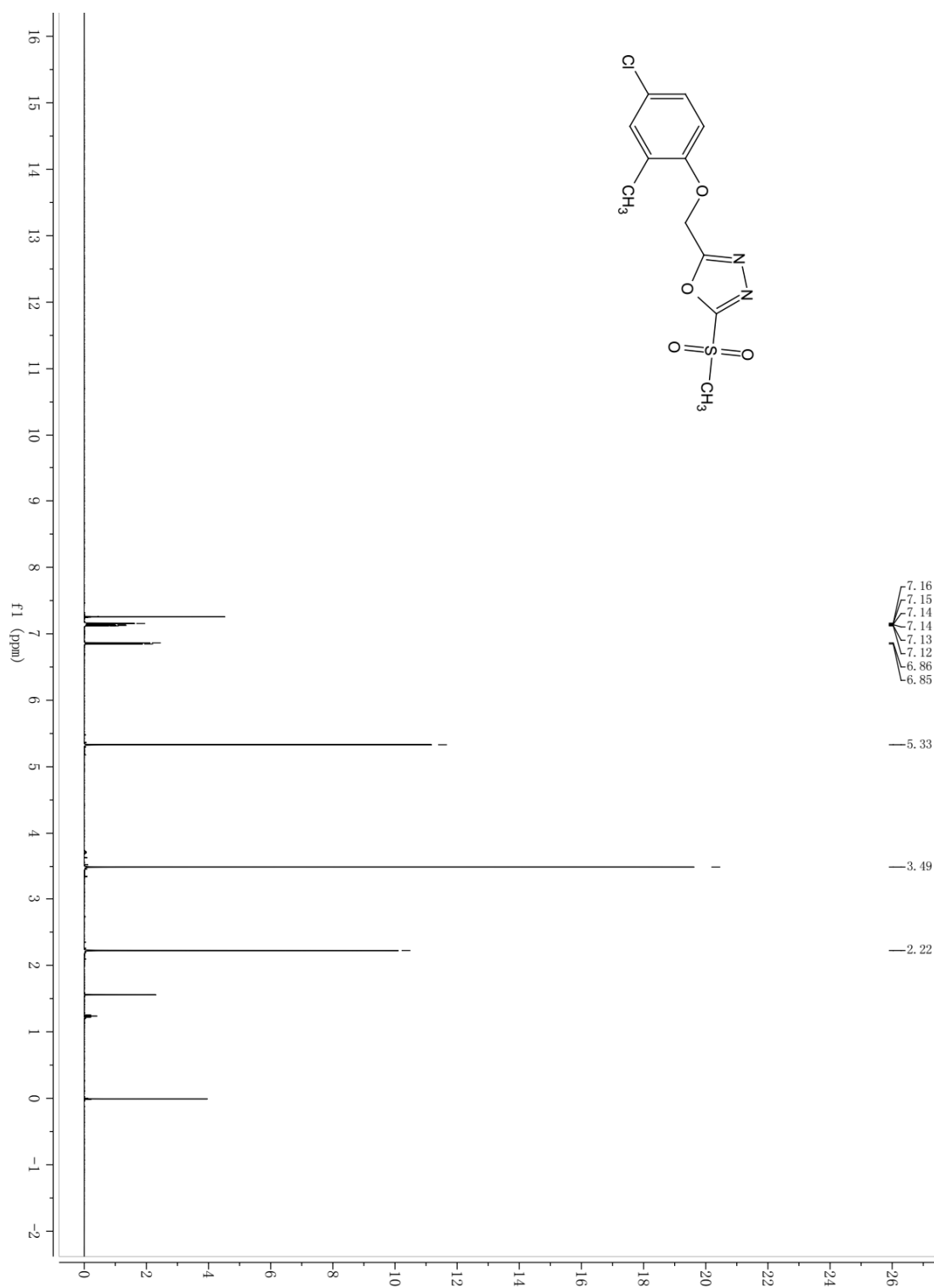
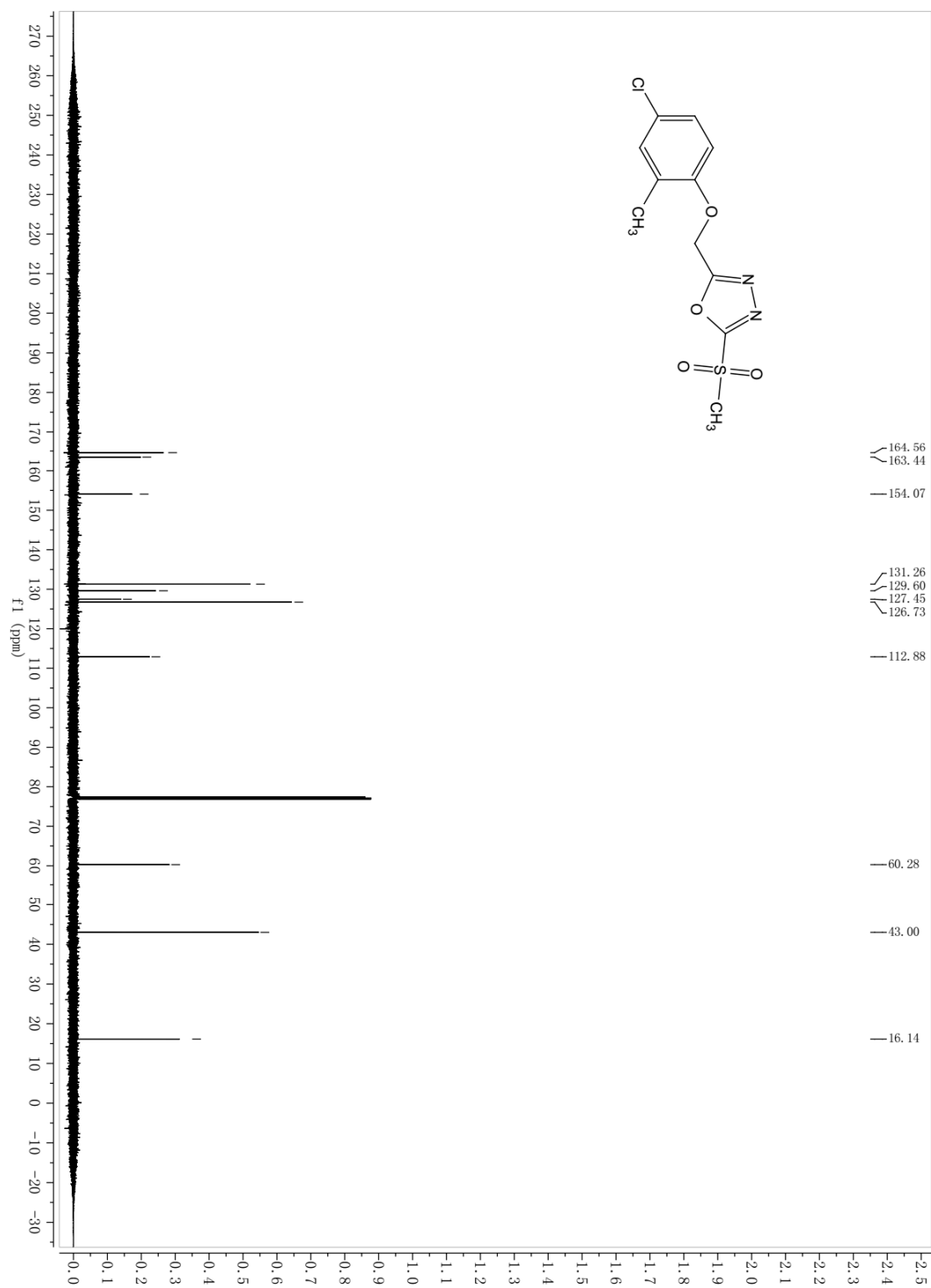
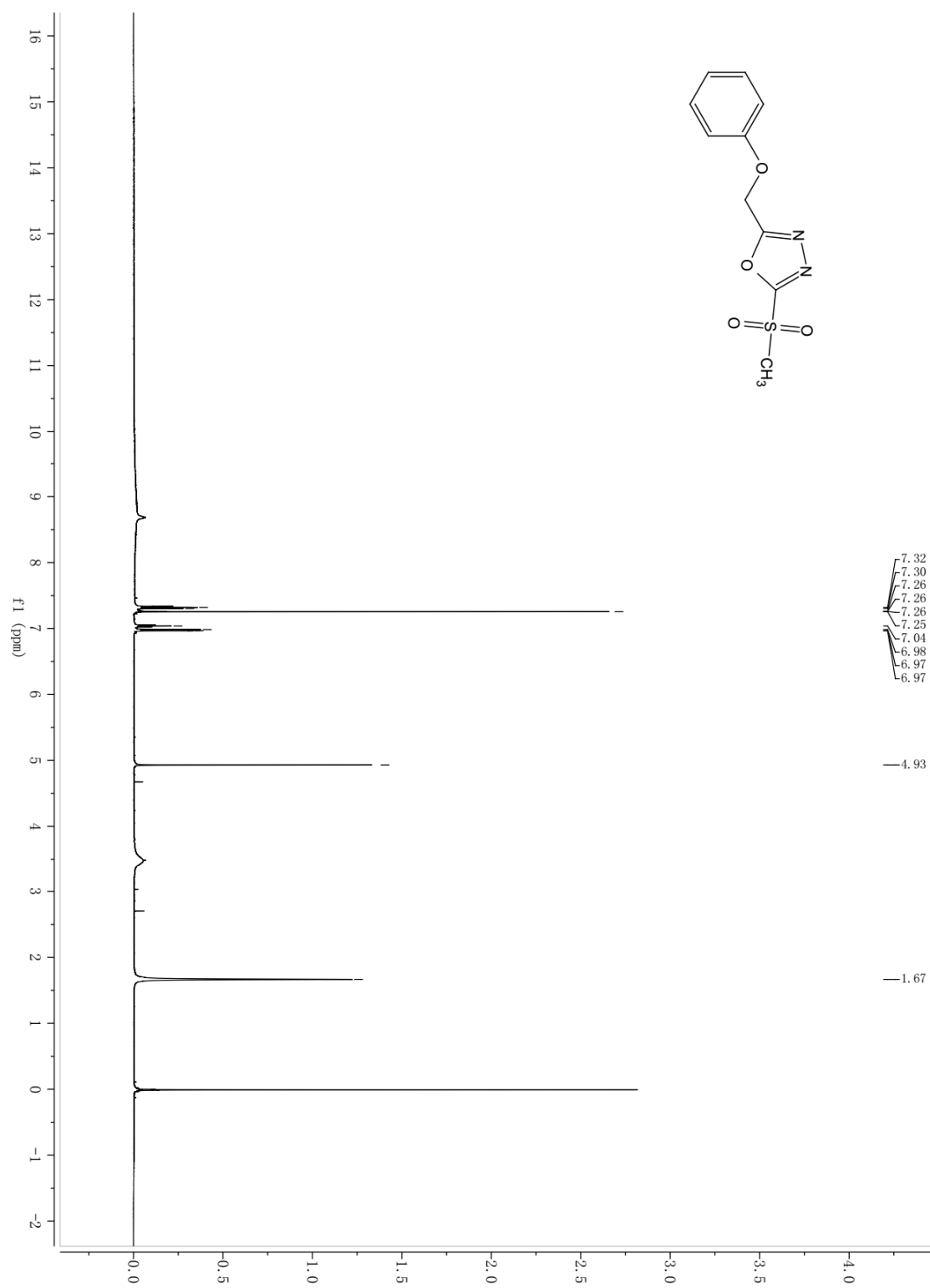


Figure S8. ¹³C NMR spectrum of compound 5I-4.

**Figure S9.** ¹H NMR spectrum of compound 5I-5.

Figure S10. ¹³C NMR spectrum of compound 5I-5.

Figure S11. ¹H NMR spectrum of compound 5I-6.

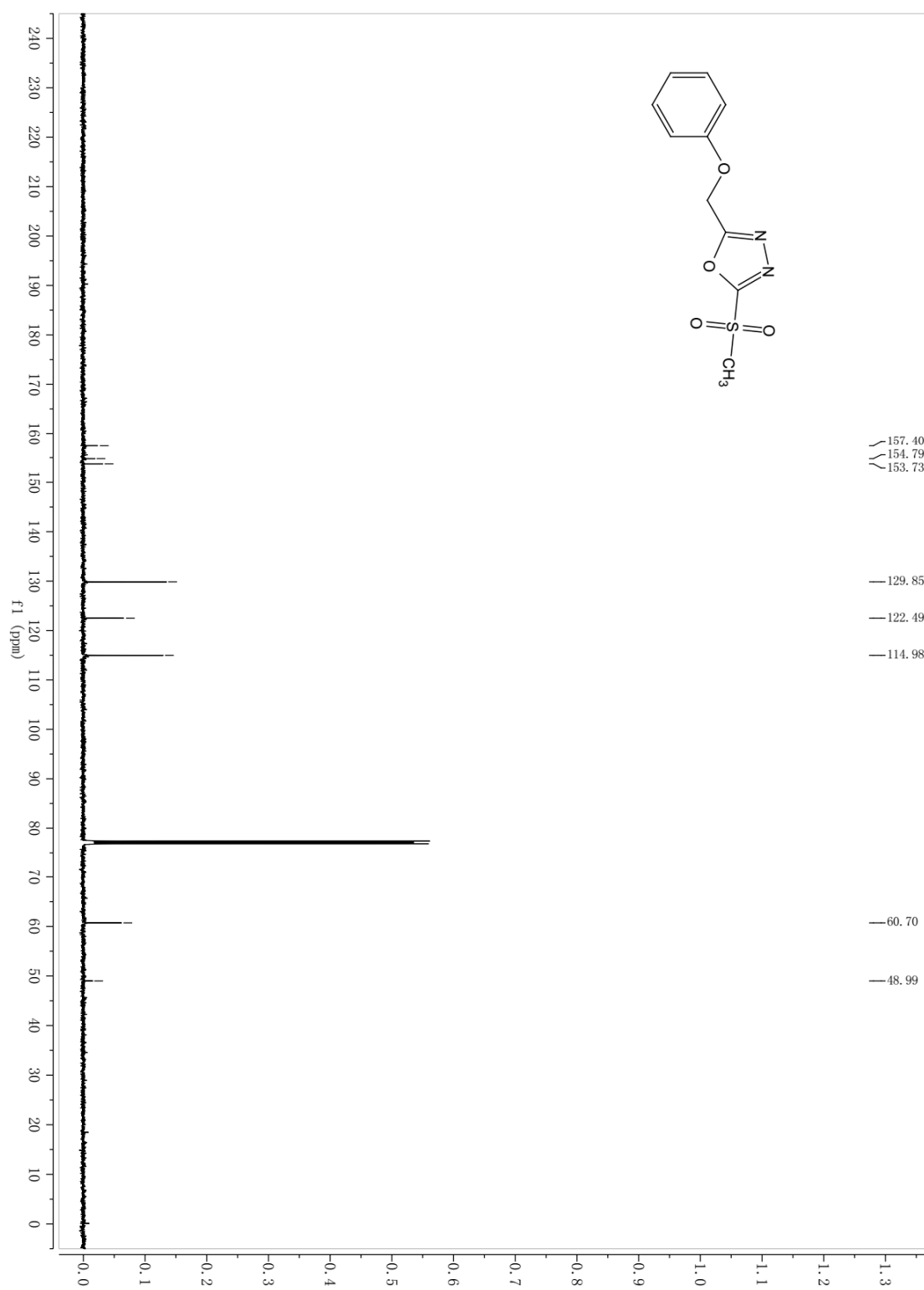
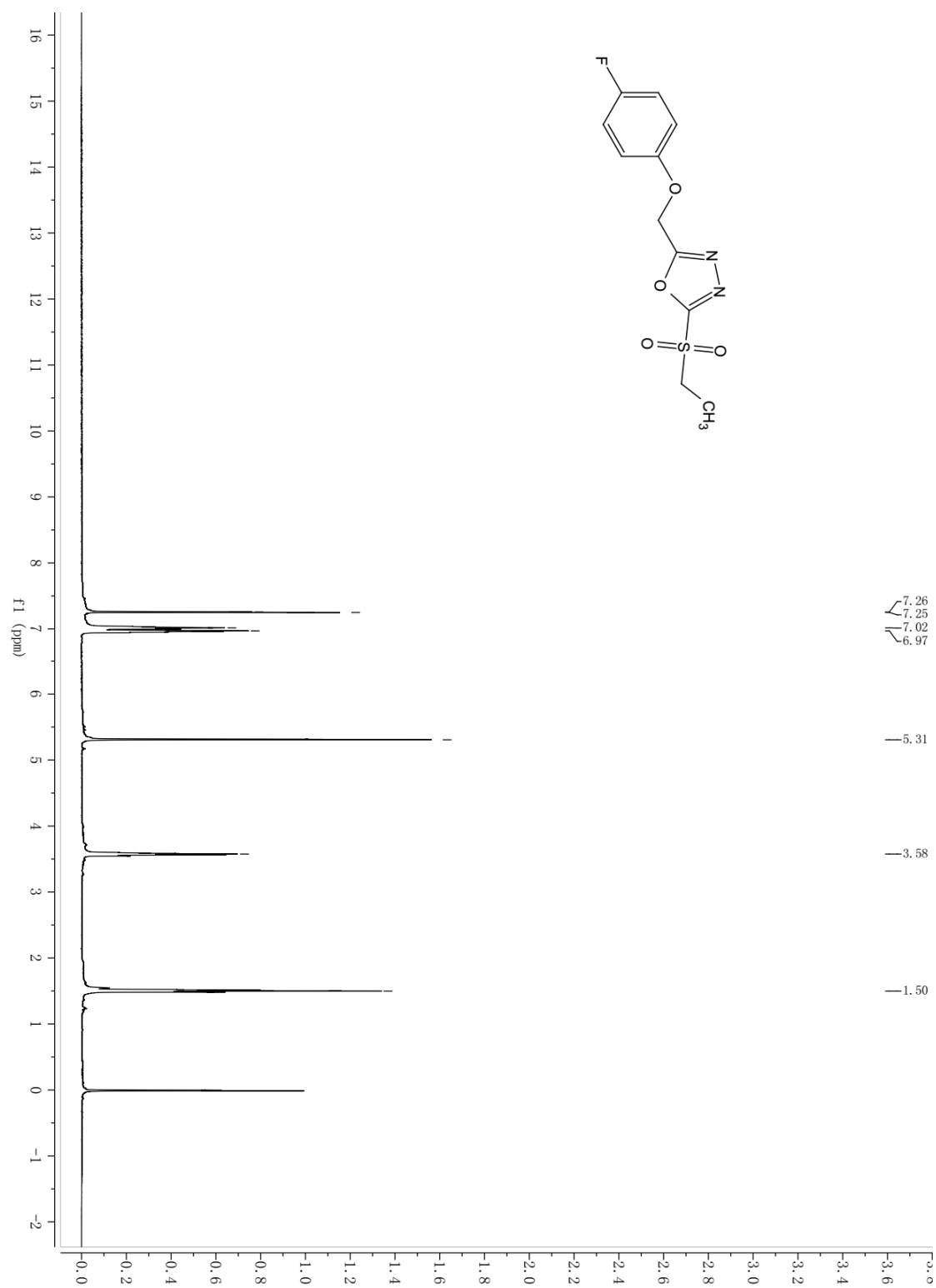
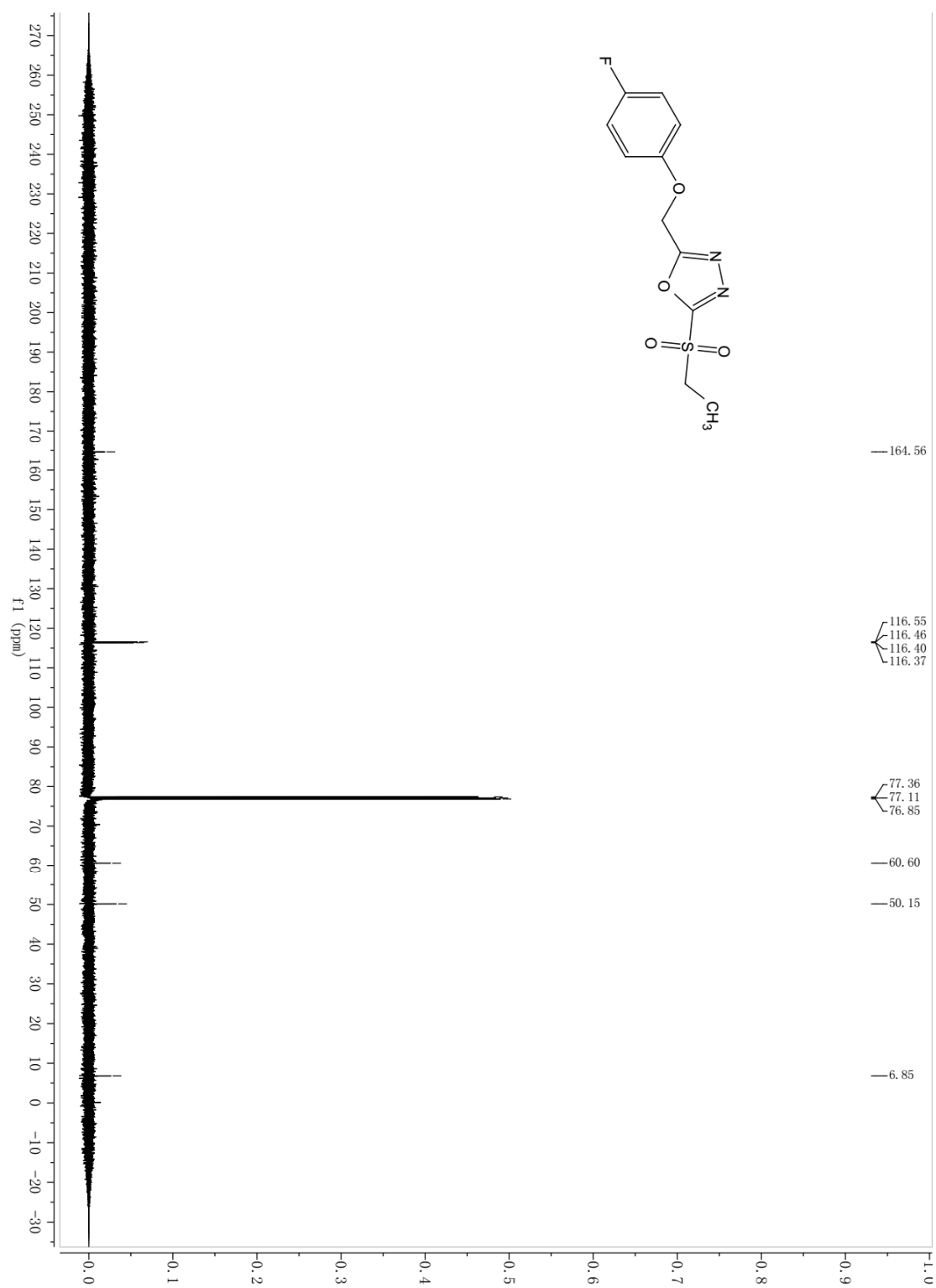
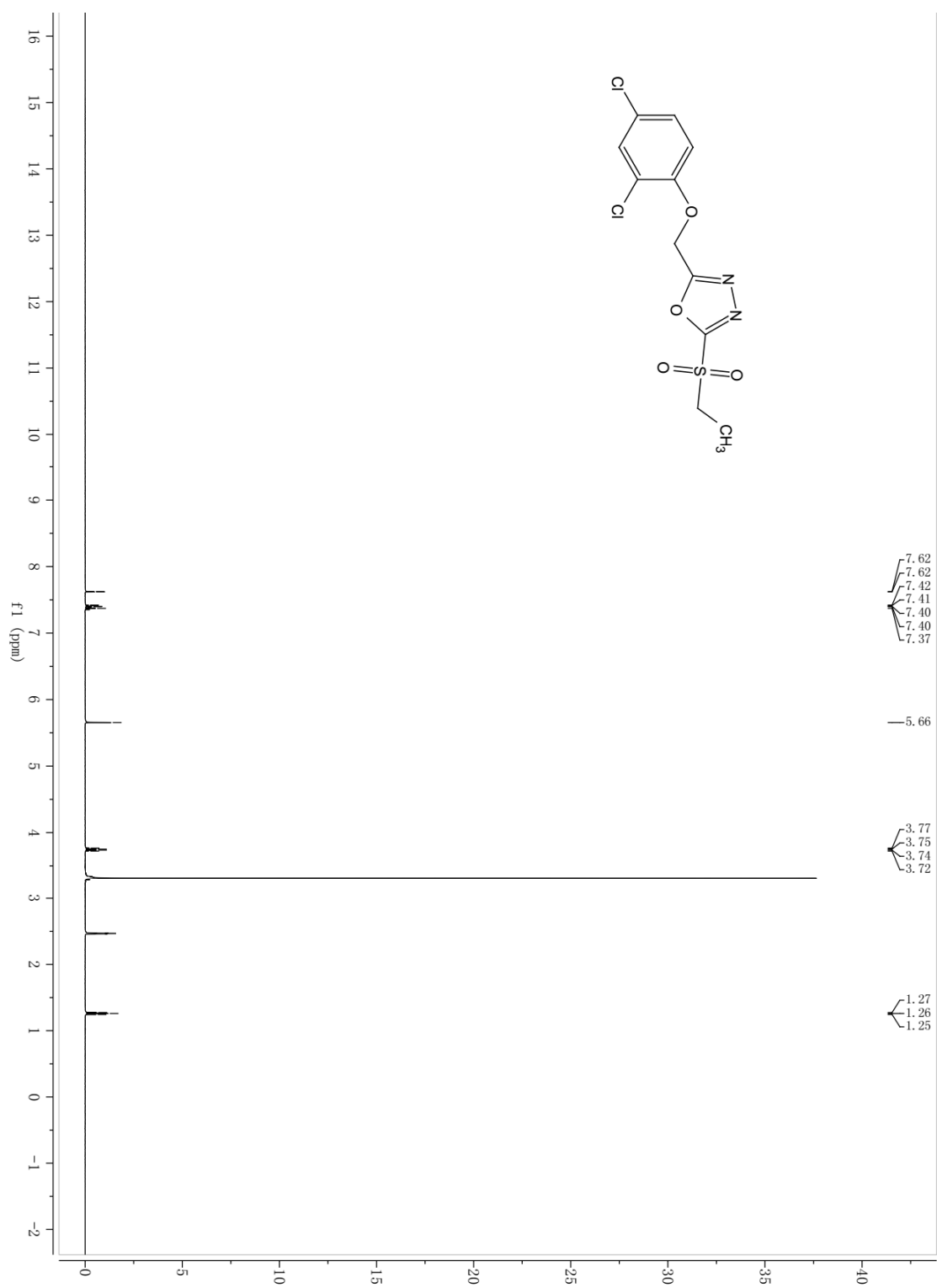
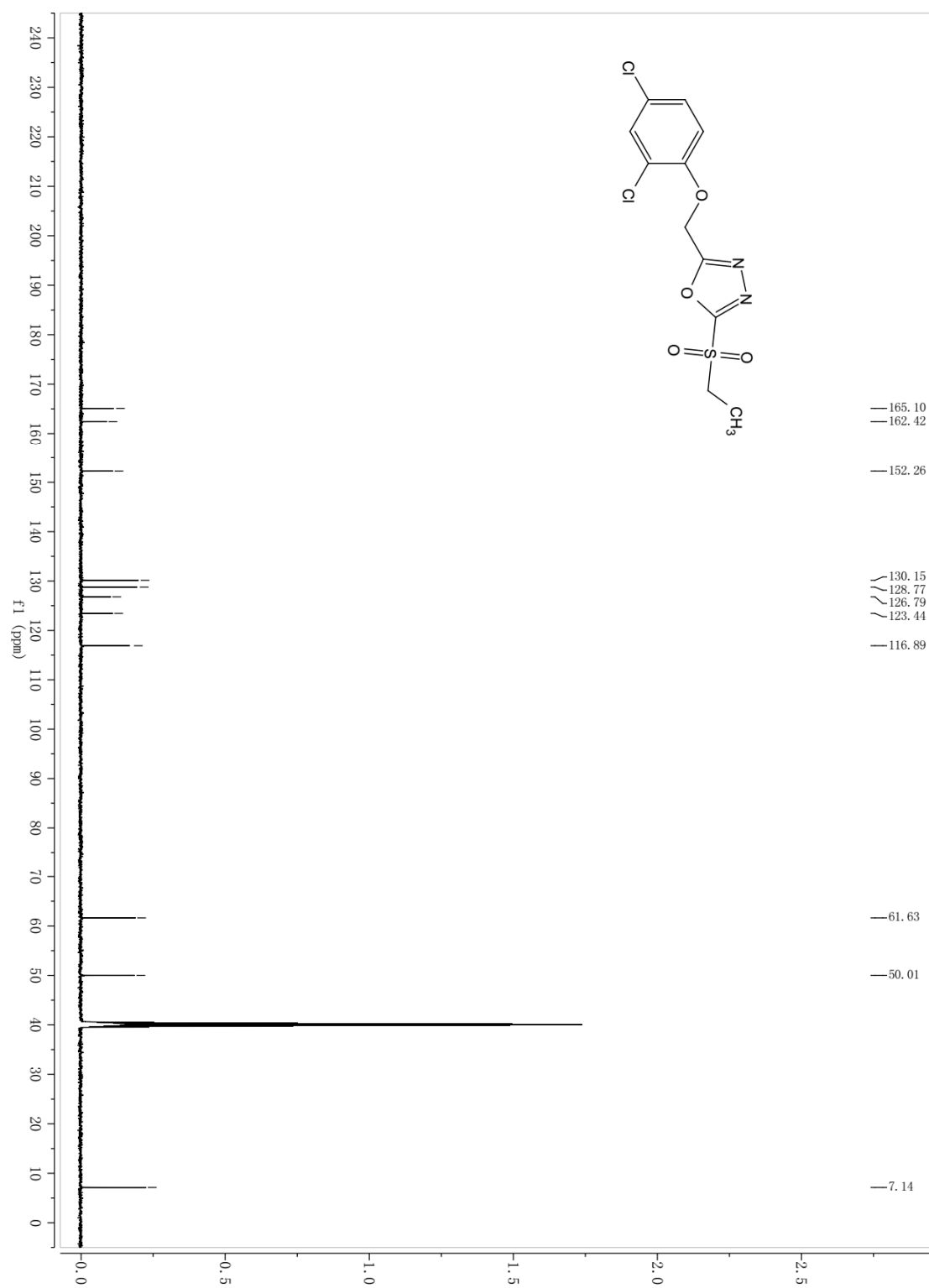


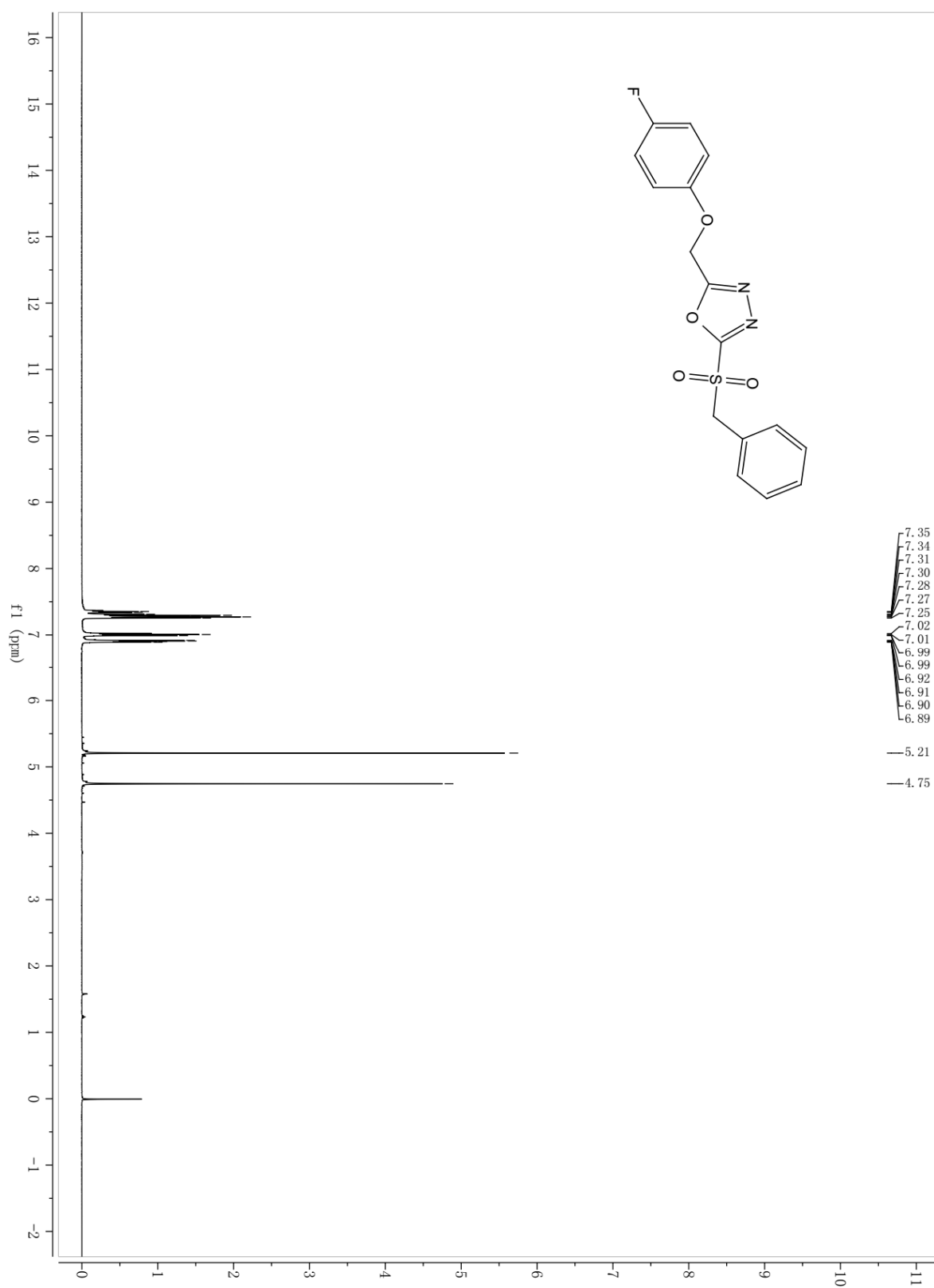
Figure S12. ^{13}C NMR spectrum of compound 5I-6.

Figure S13. ¹H NMR spectrum of compound 5I-7.

Figure S14. ^{13}C NMR spectrum of compound 5I-7.

**Figure S15.** ¹H NMR spectrum of compound 5I-8.

Figure S16. ¹³C NMR spectrum of compound 5I-8.

Figure S17. ¹H NMR spectrum of compound 5II-9.

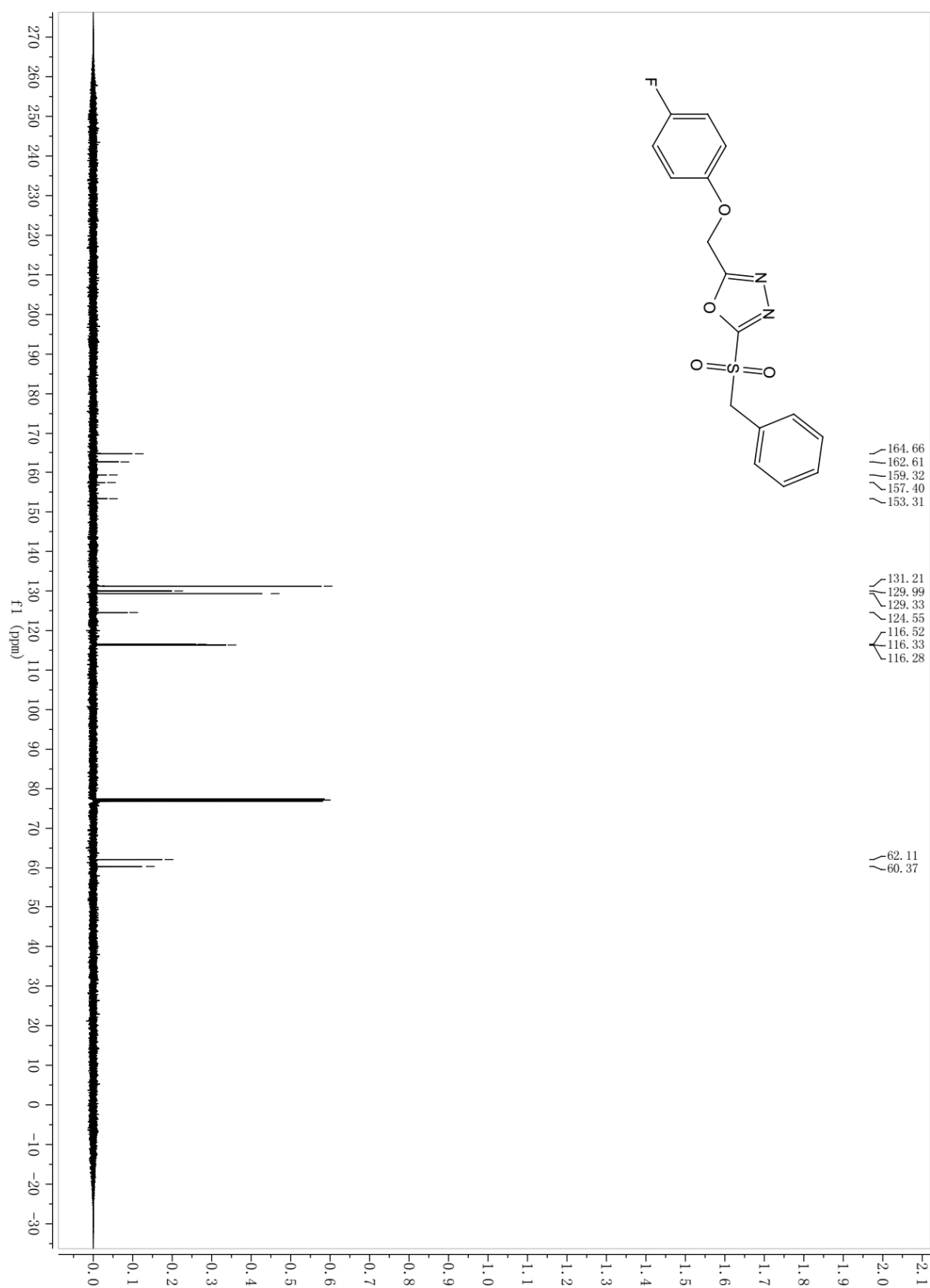


Figure S18. ¹³C NMR spectrum of compound 5II-9.

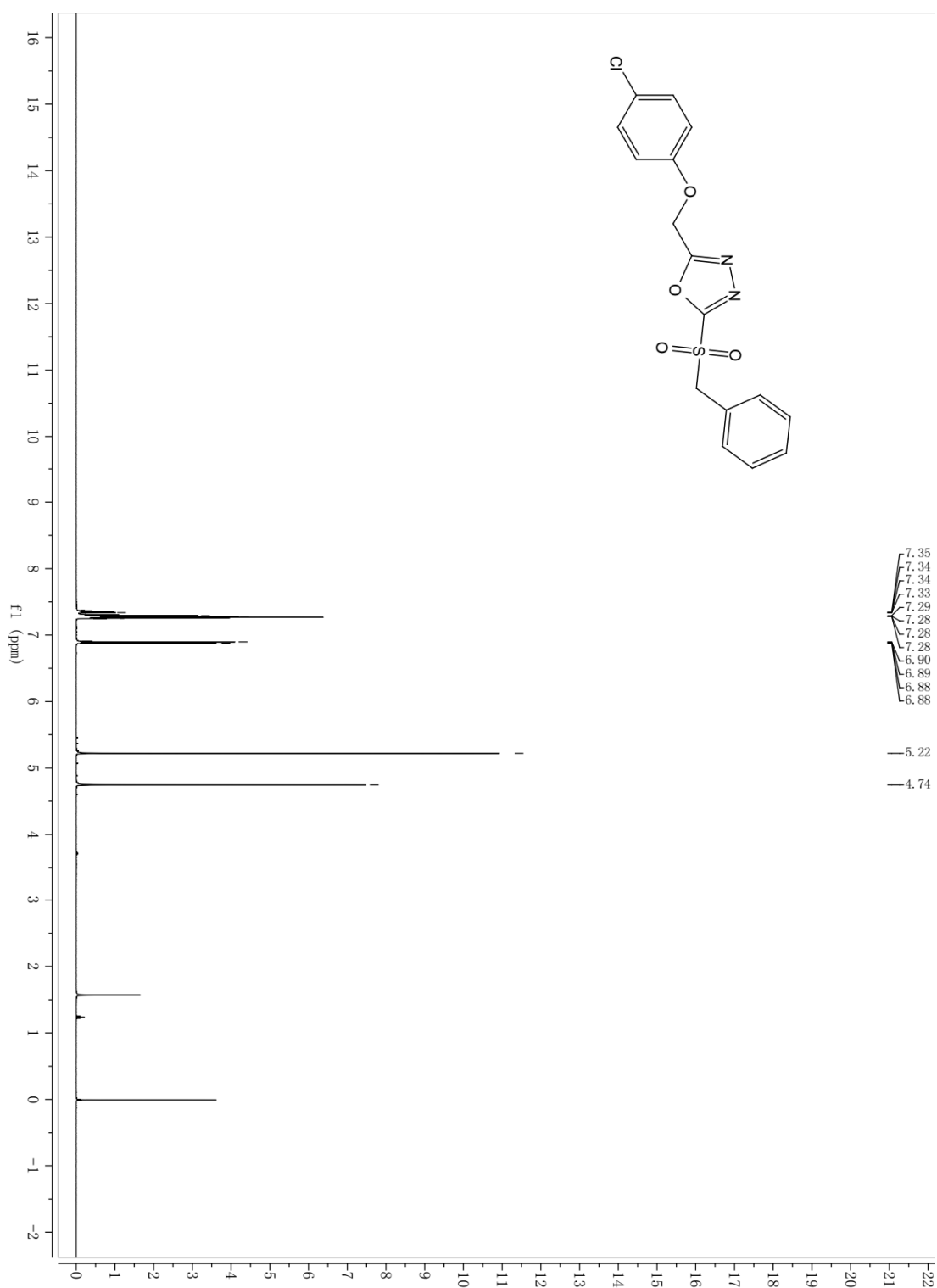


Figure S19. ¹H NMR spectrum of compound 5I-10.

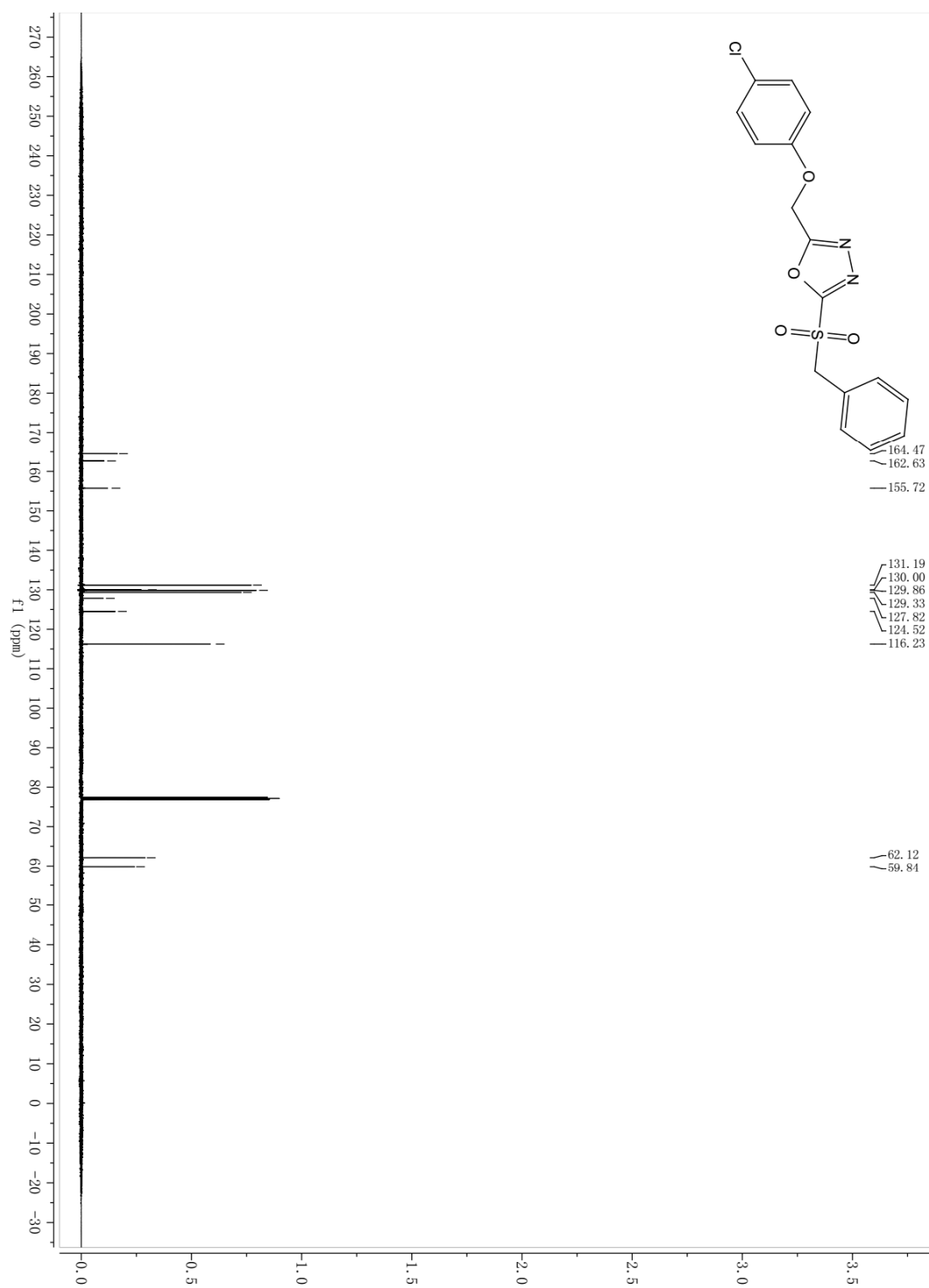


Figure S20. ^{13}C NMR spectrum of compound 5I-10.

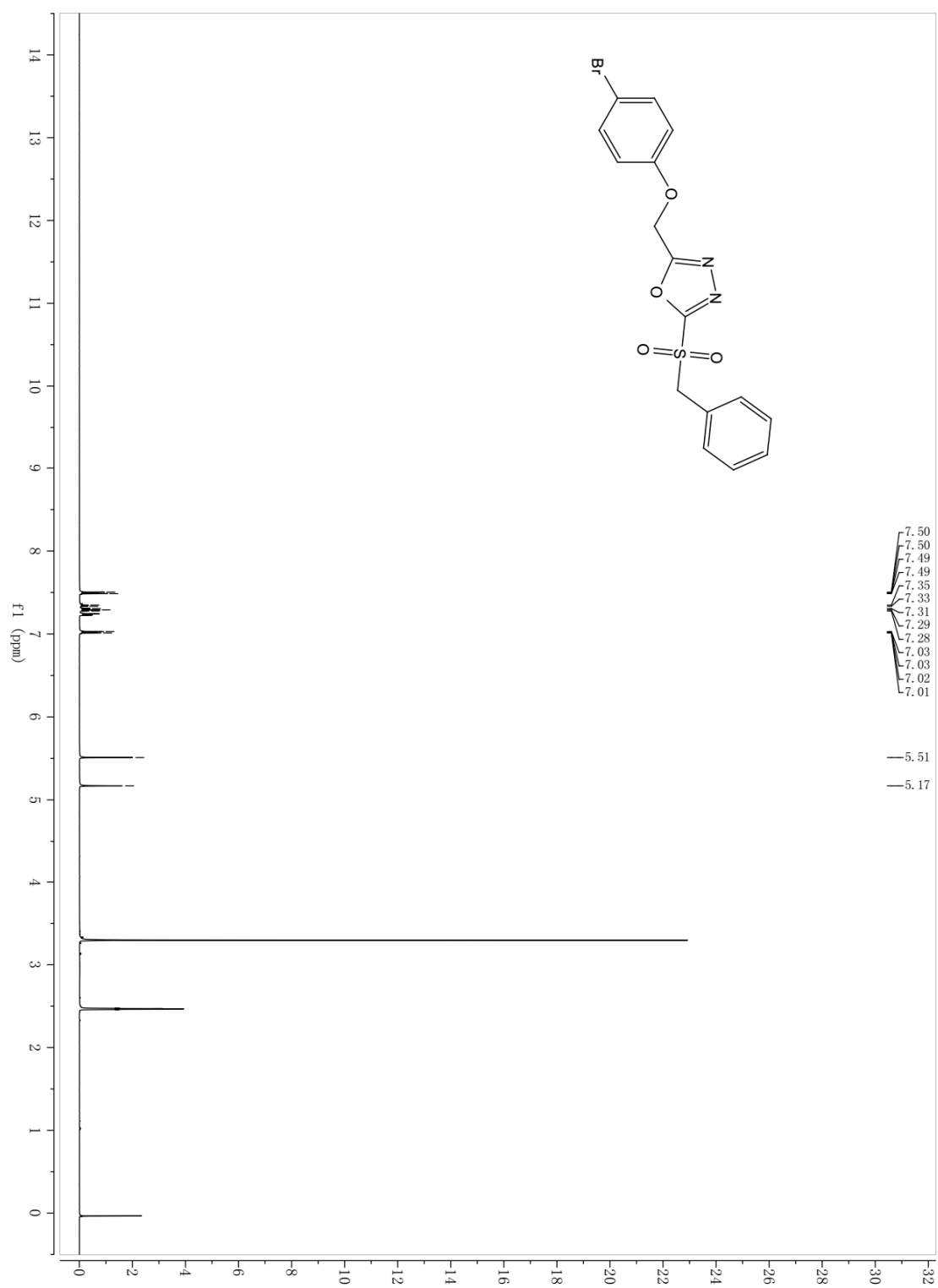
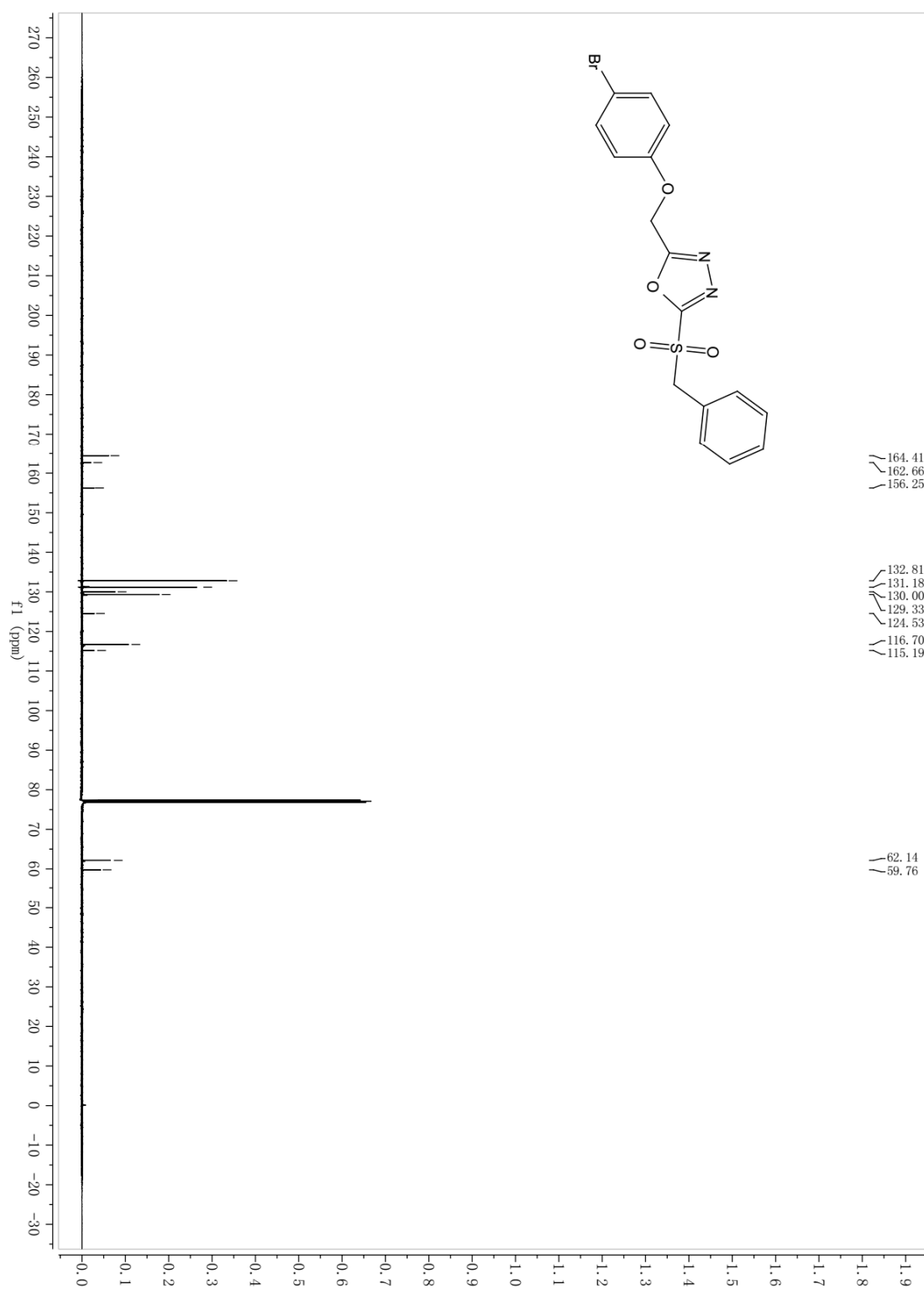
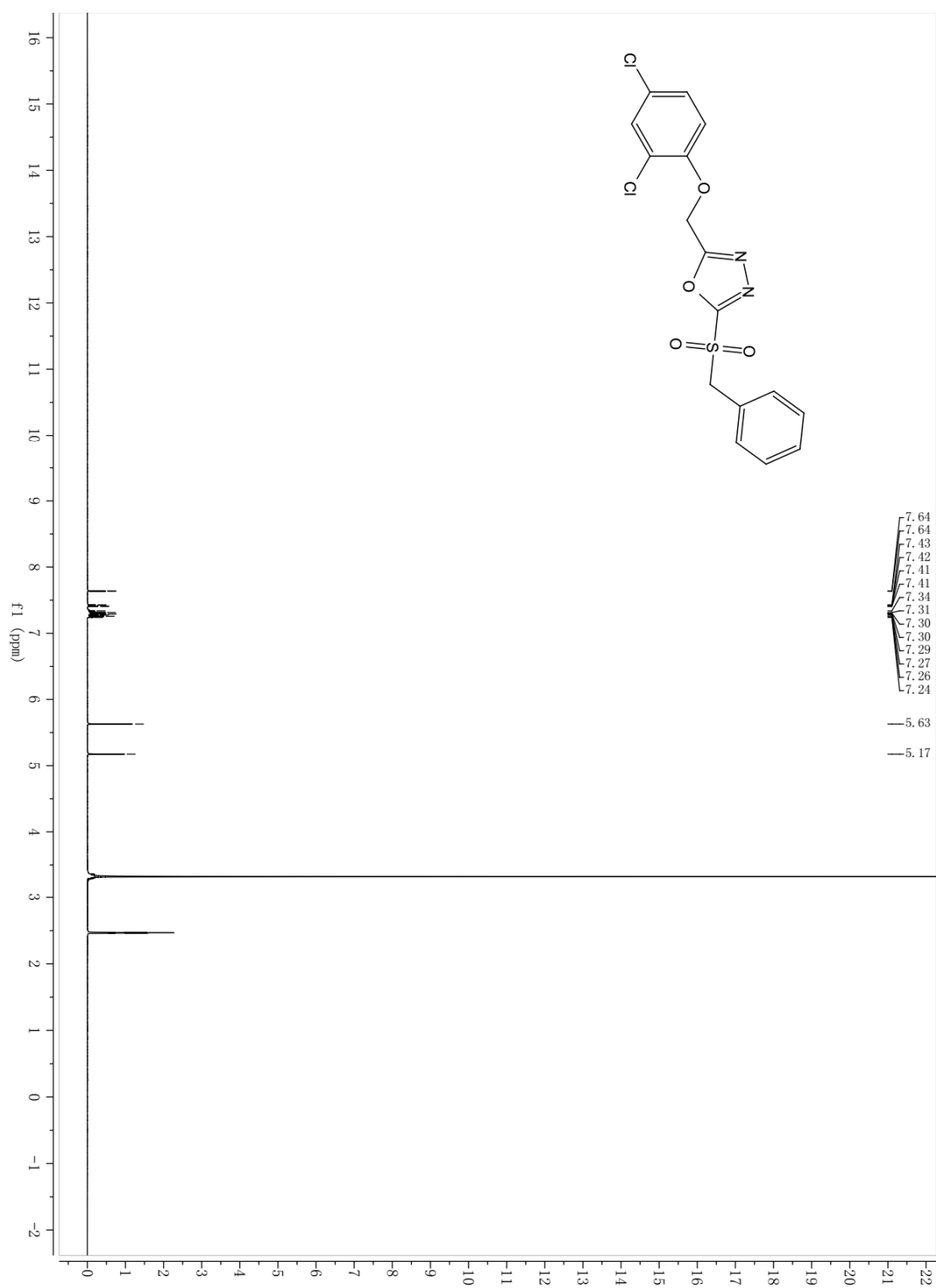


Figure S21. ^1H NMR spectrum of compound 5I-11.

**Figure S22.** ¹³C NMR spectrum of compound 5I-11.

Figure S23. ^1H NMR spectrum of compound 5I-12.

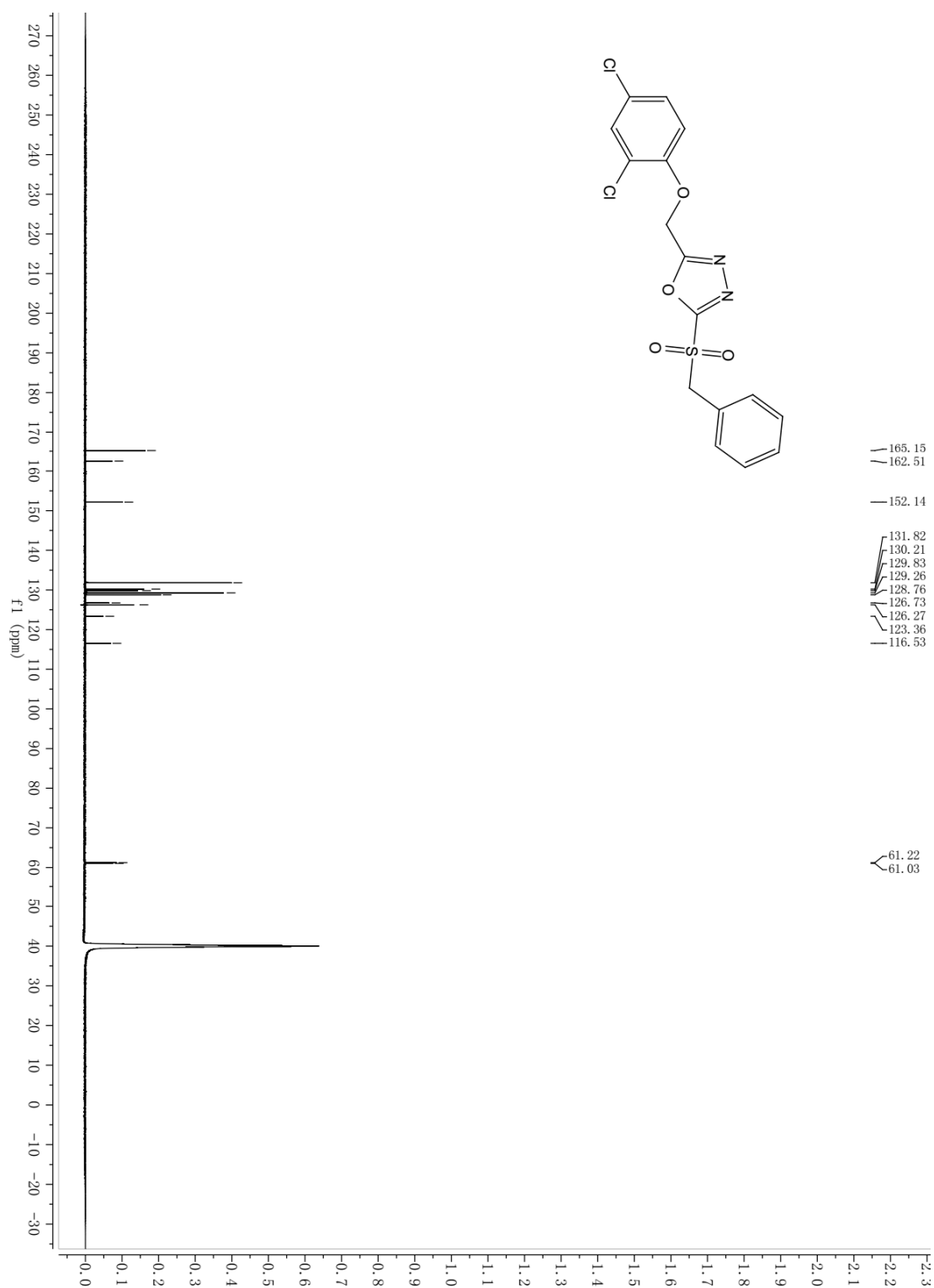
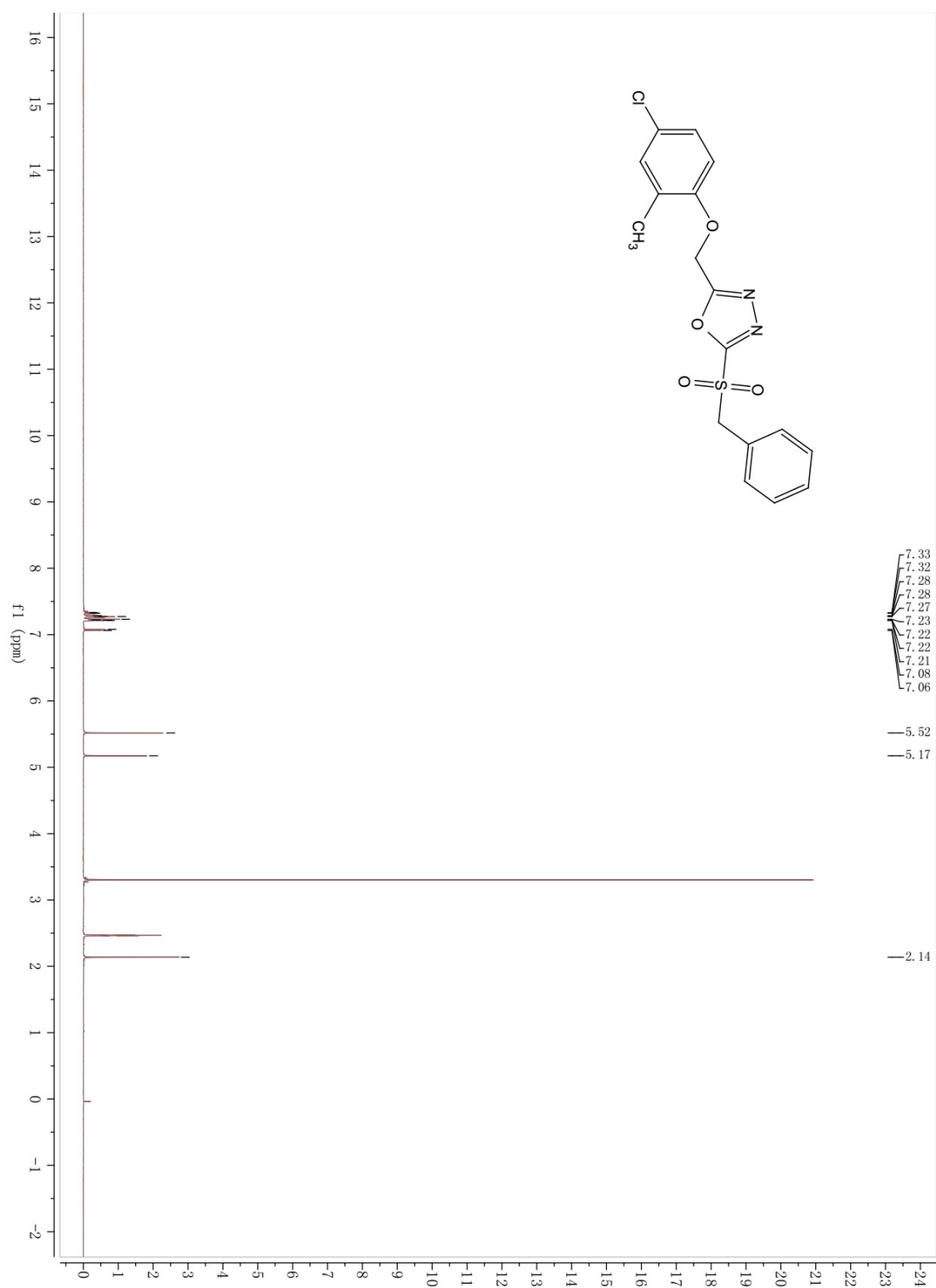


Figure S24. ¹³C NMR spectrum of compound 5I-12.

Figure S25. ¹H NMR spectrum of compound 5I-13.

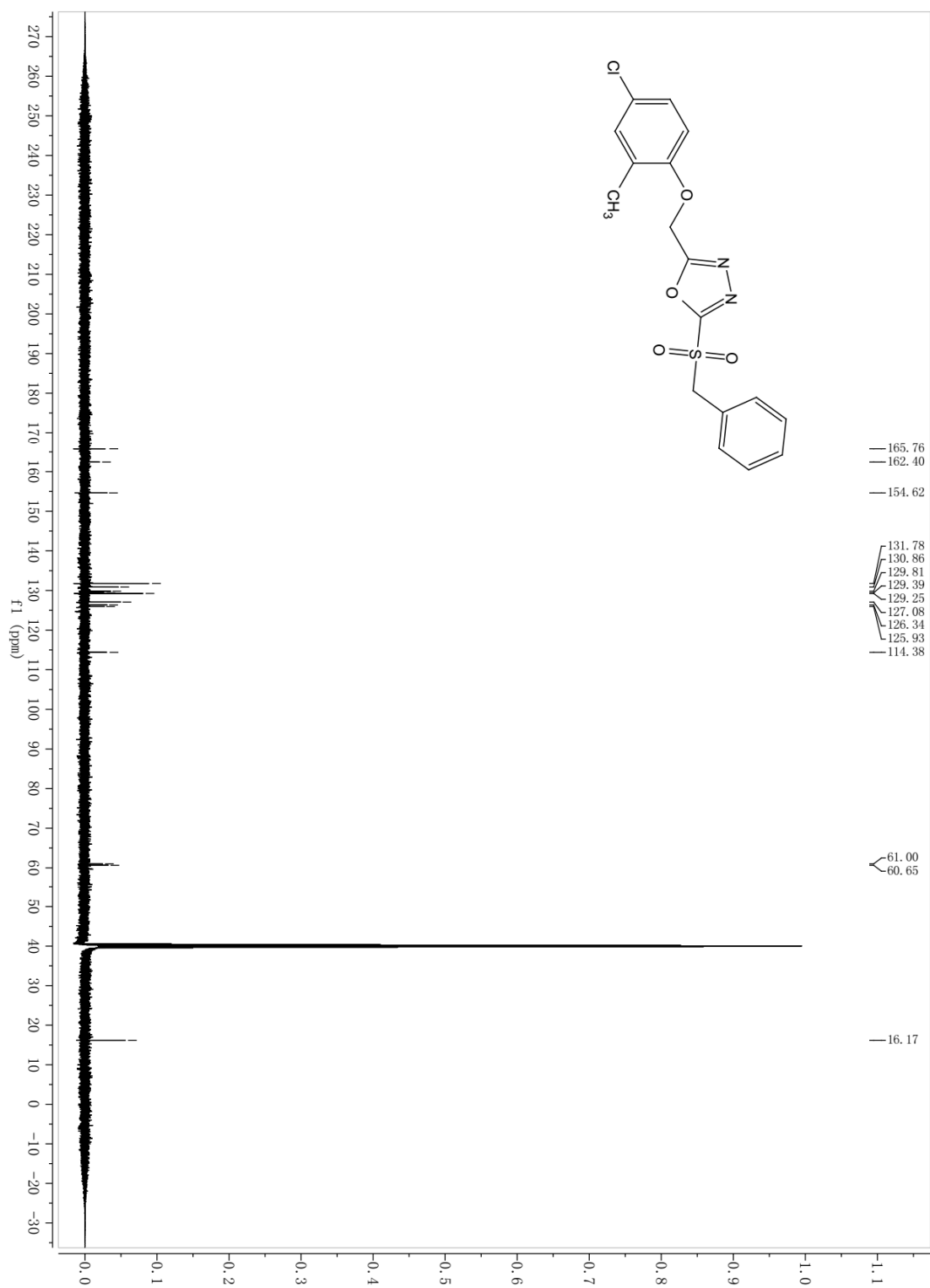


Figure S26. ¹³C NMR spectrum of compound 5I-13.

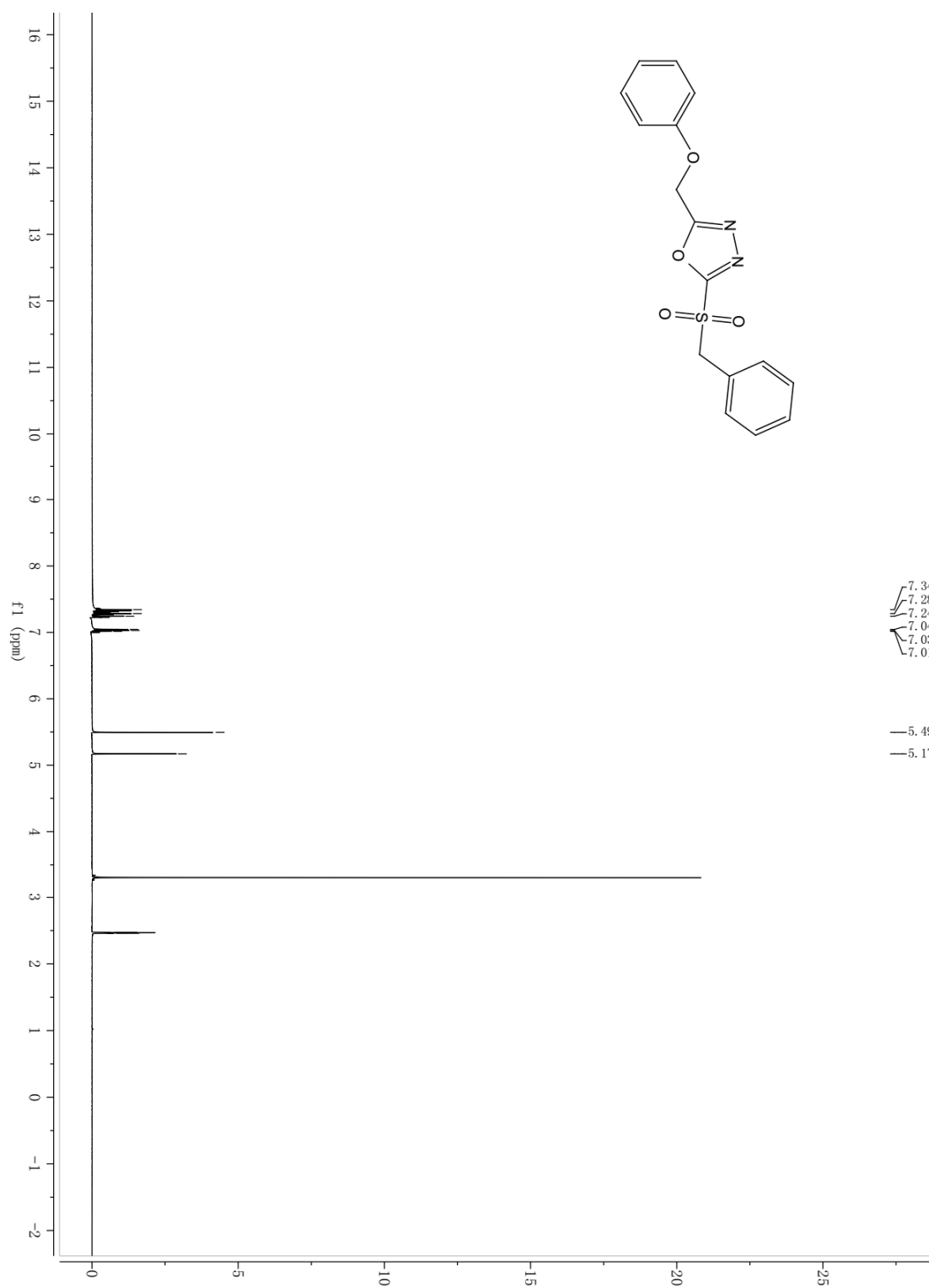


Figure S27. ^1H NMR spectrum of compound **5I-14**.

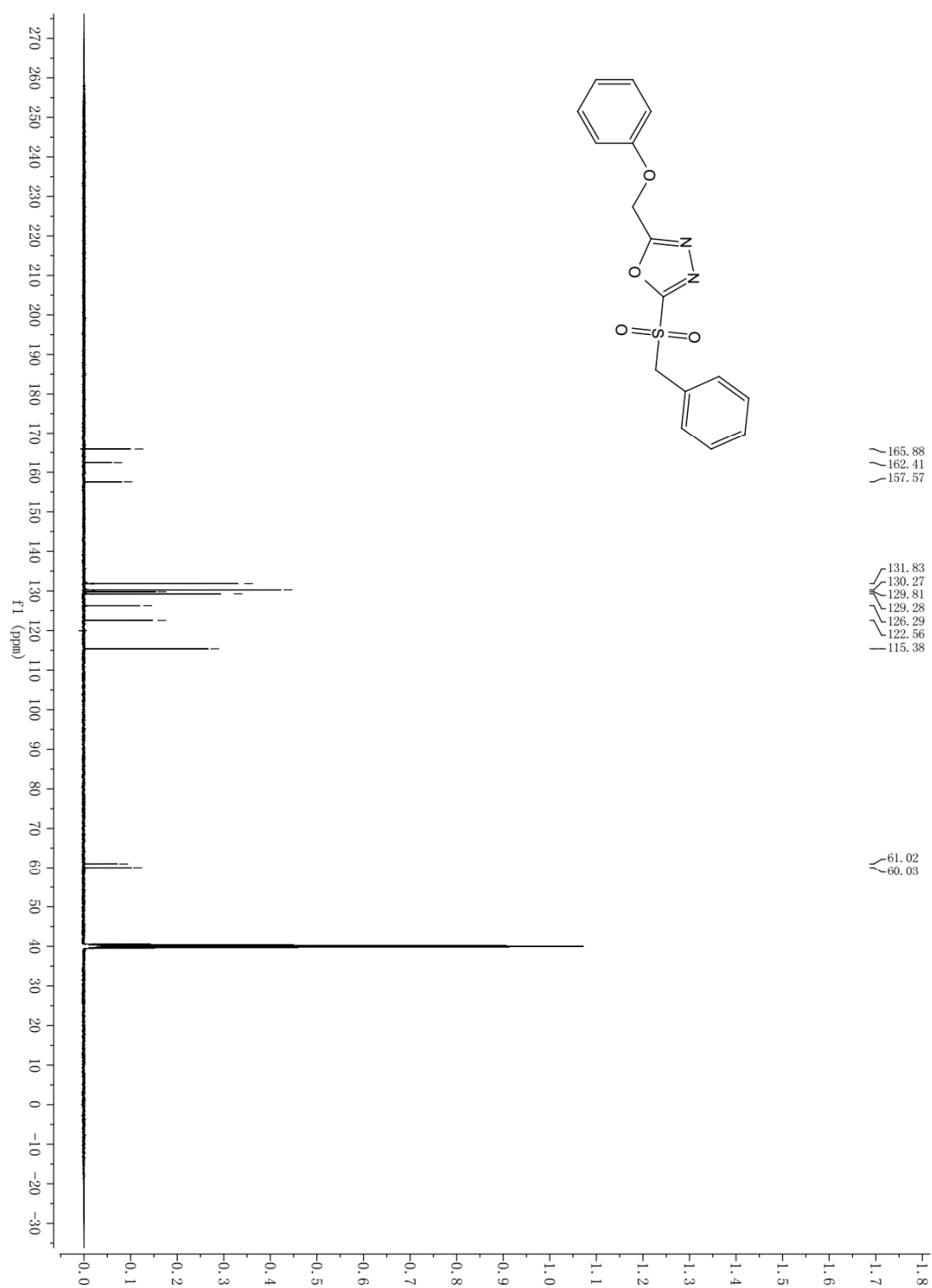
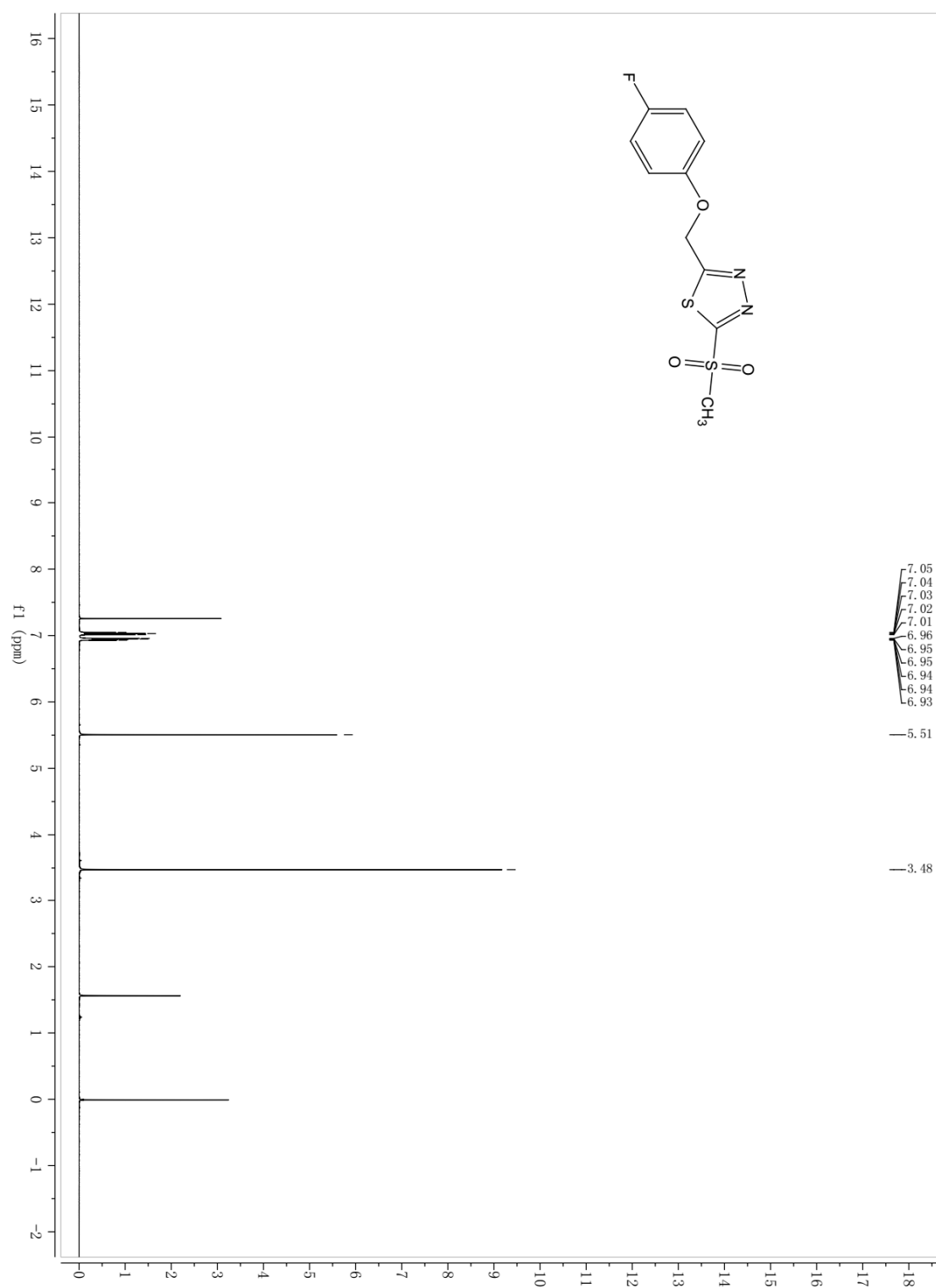
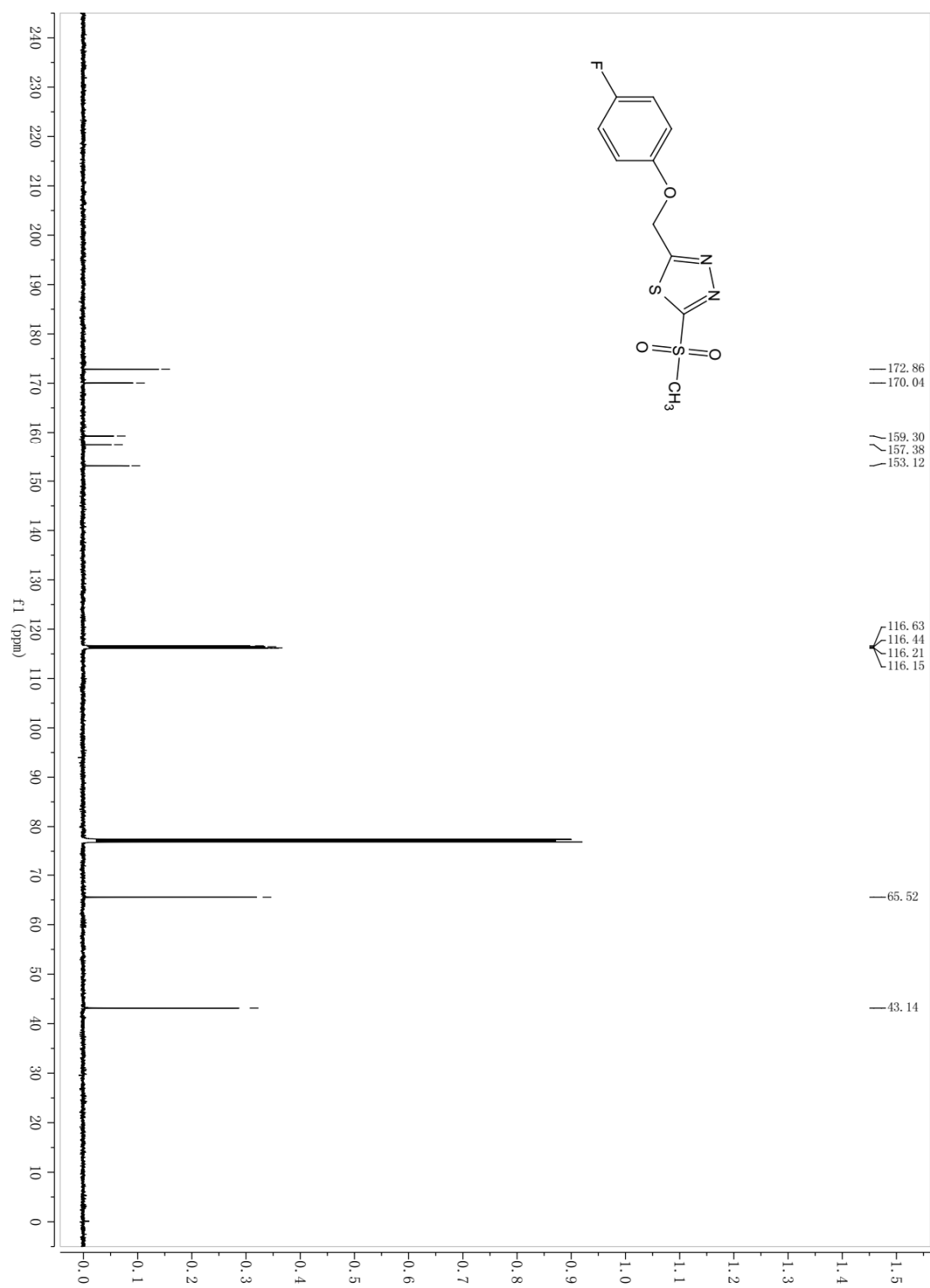
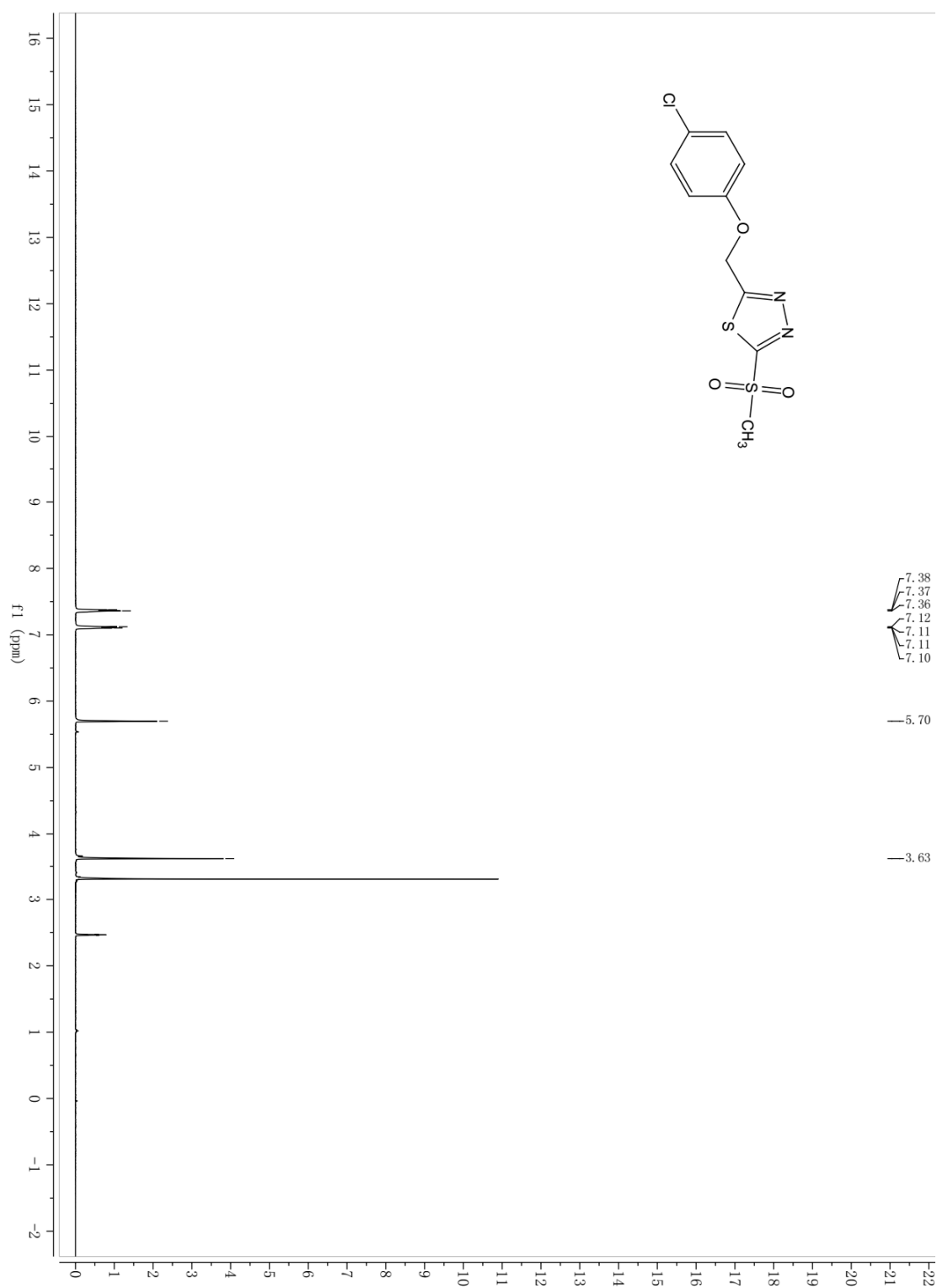


Figure S28. ¹³C NMR spectrum of compound 5I-14.

Figure S29. ¹H NMR spectrum of compound 5II-1.

Figure S30. ¹³C NMR spectrum of compound 5II-1.

Figure S31. ^1H NMR spectrum of compound 5II-2.

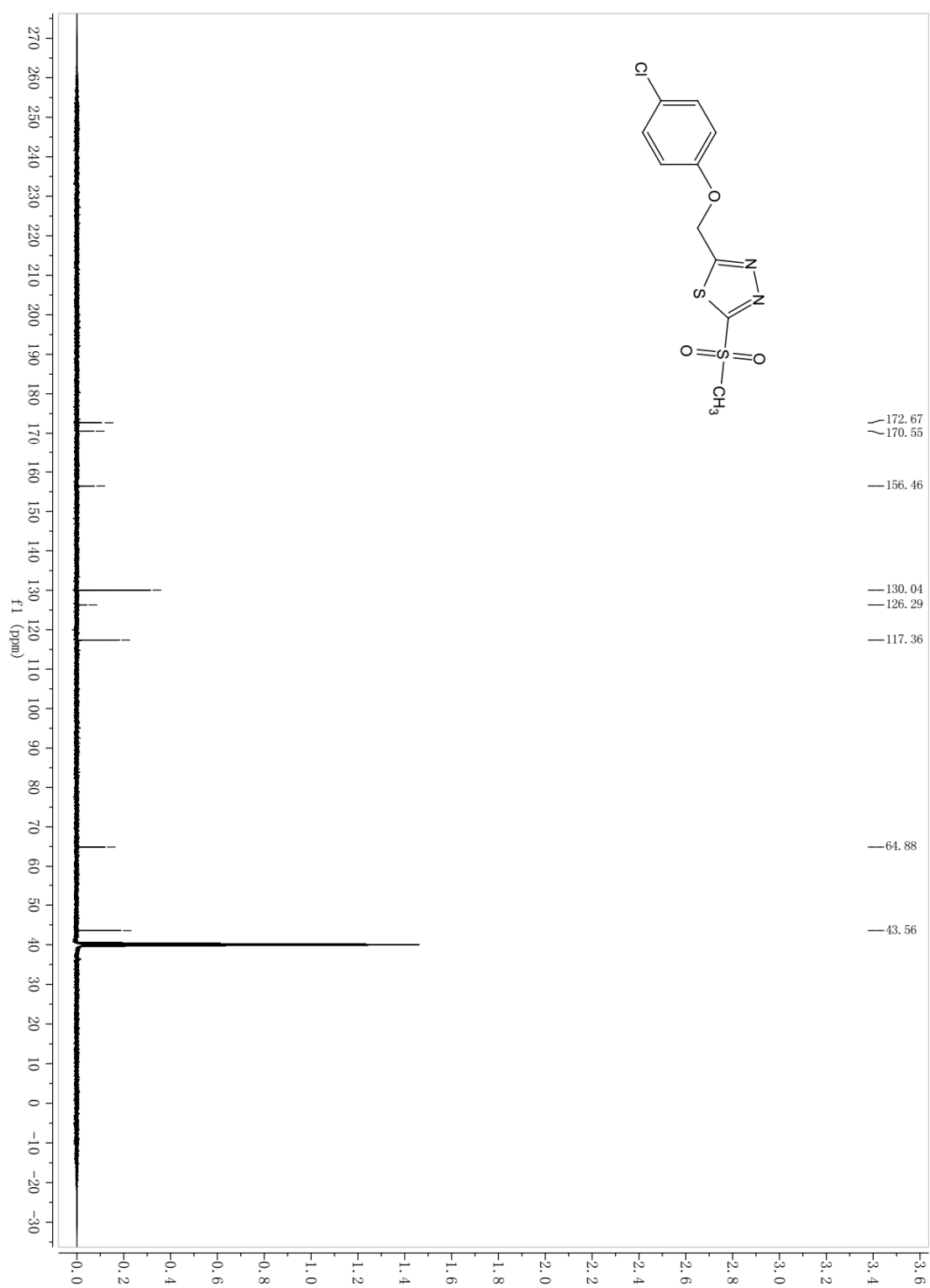
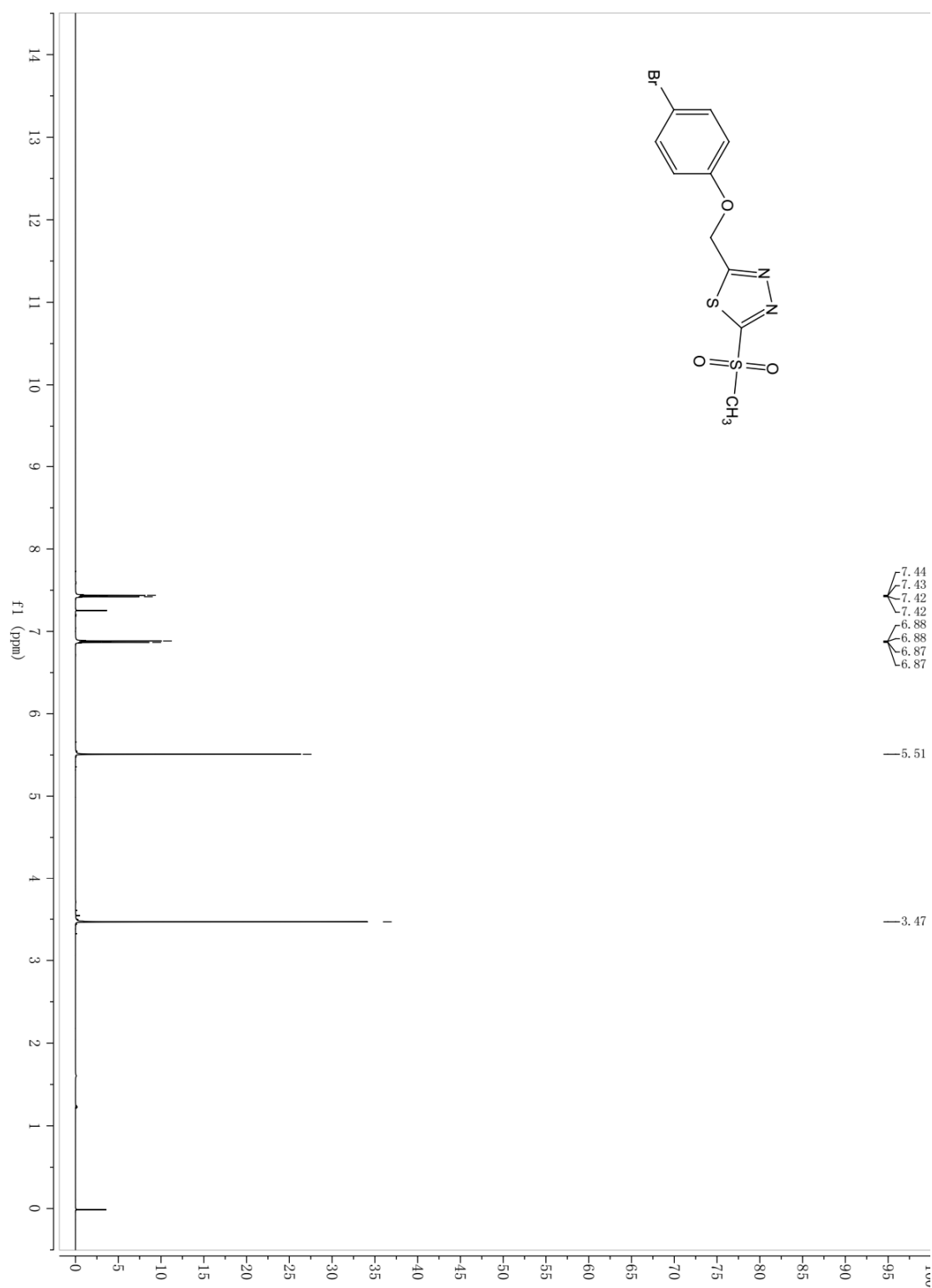


Figure S32. ^{13}C NMR spectrum of compound 5II-2.

Figure S33. ¹H NMR spectrum of compound 5II-3.

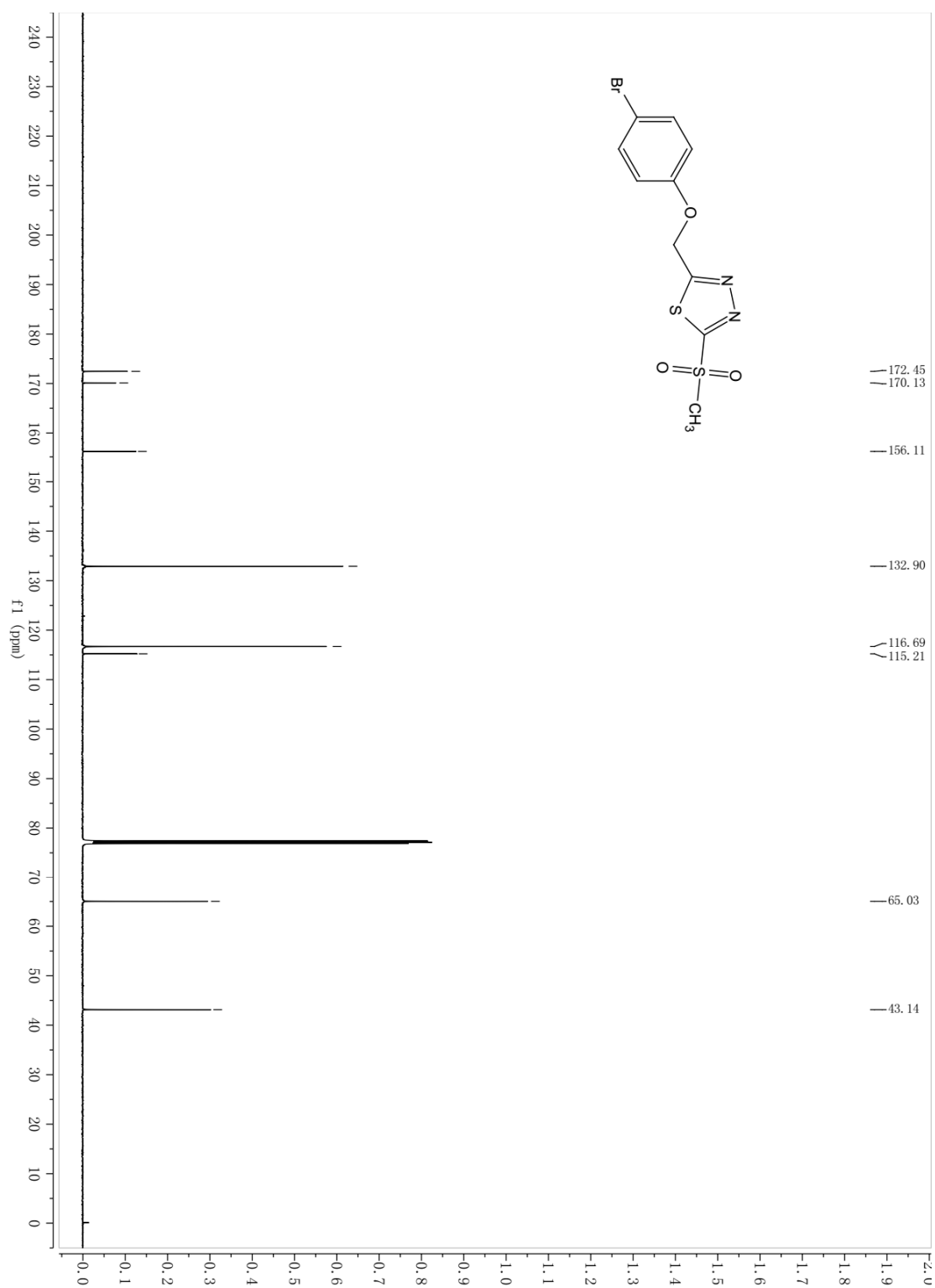
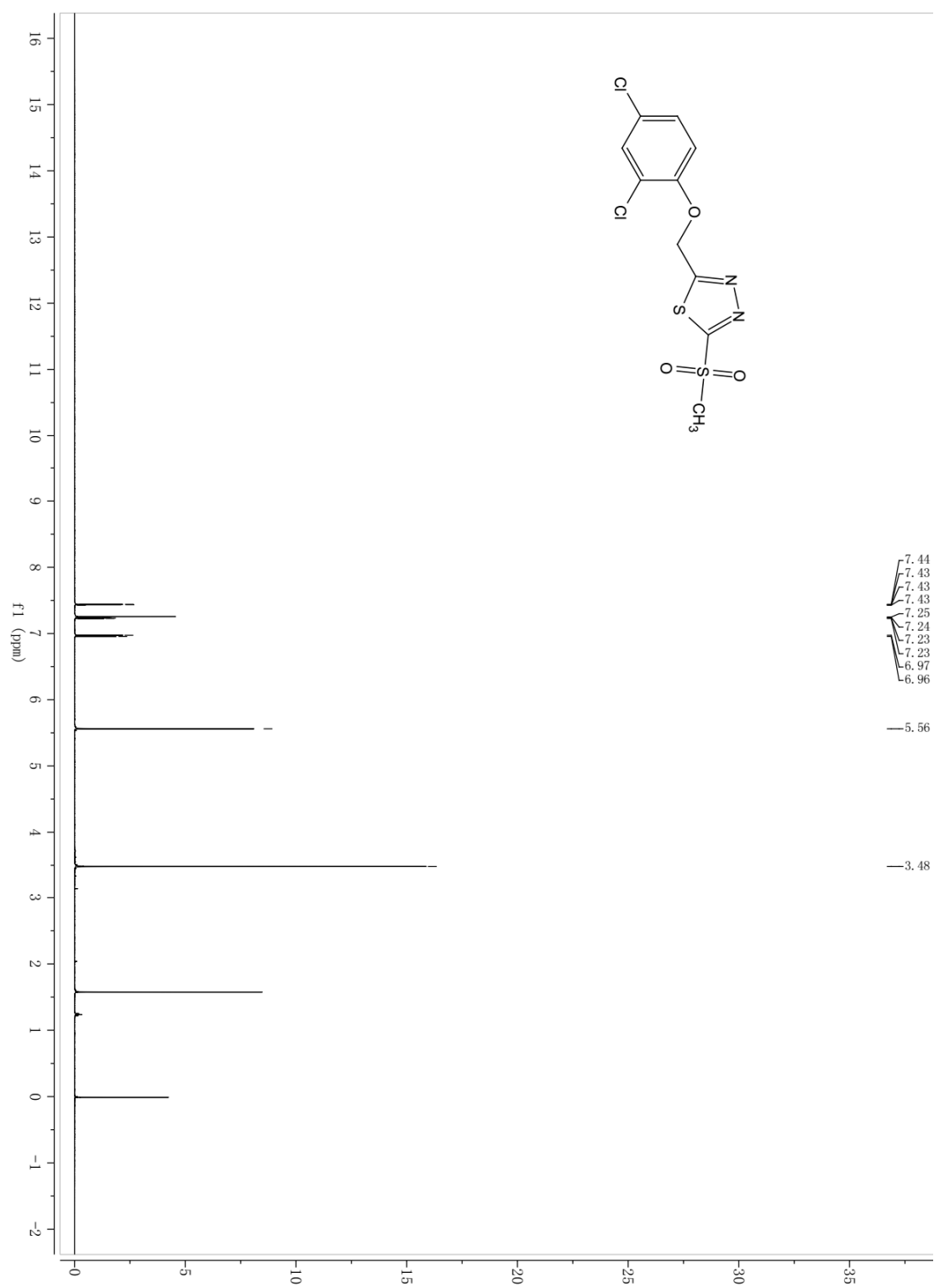


Figure S34. ^{13}C NMR spectrum of compound 5II-3.

Figure S35. ¹H NMR spectrum of compound 5II-4.

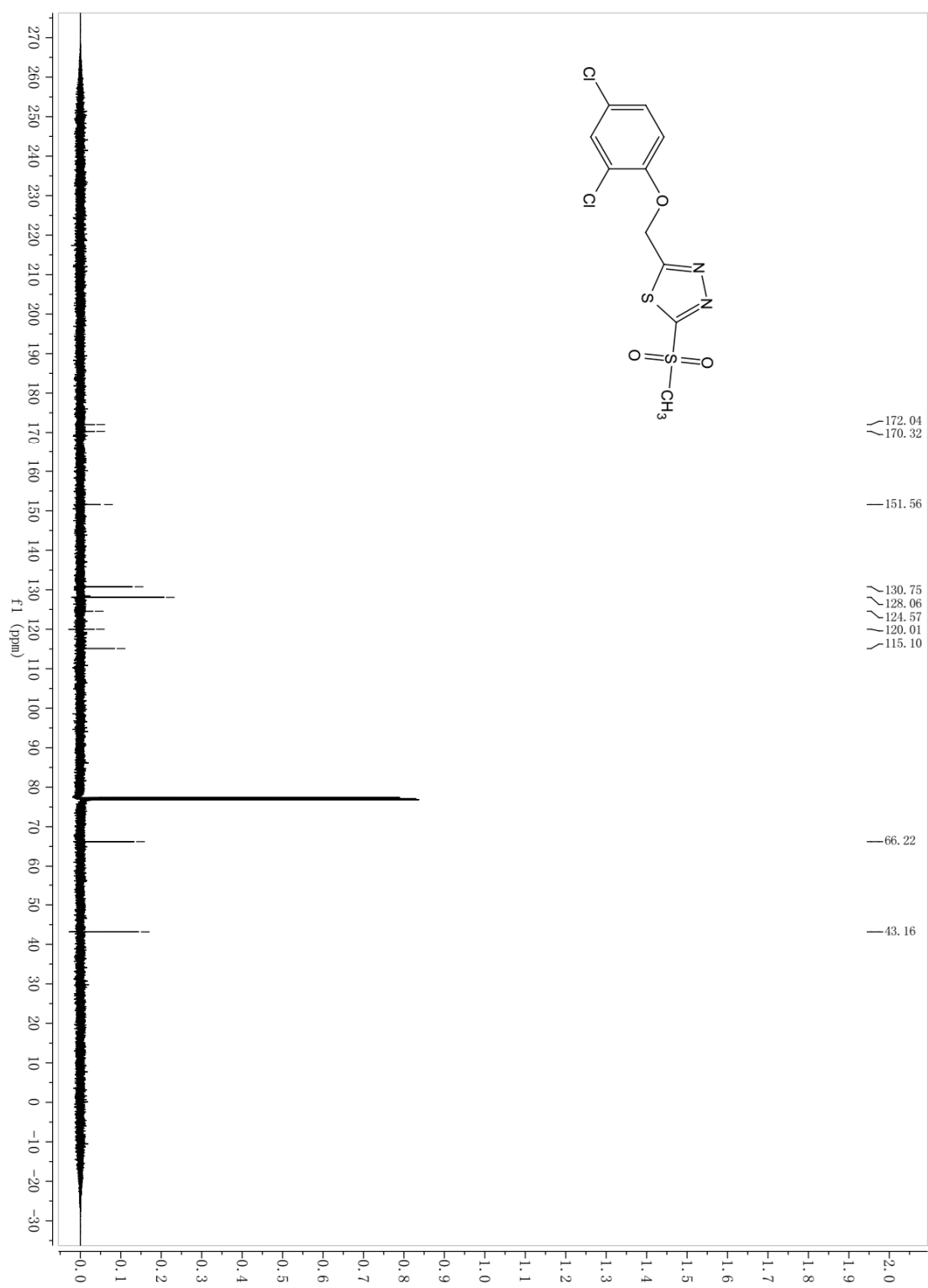


Figure S36. ¹³C NMR spectrum of compound 5II-4.

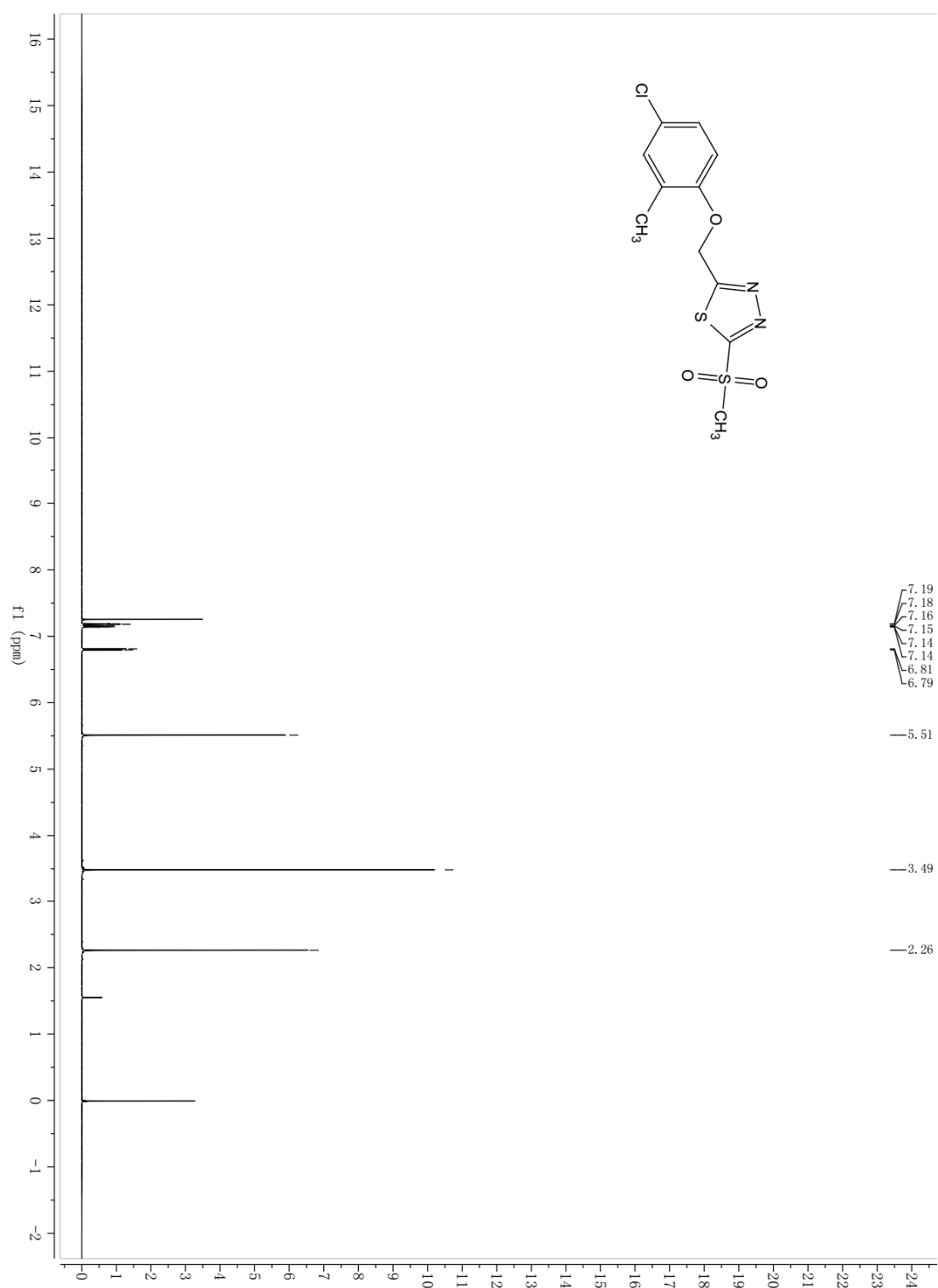


Figure S37. ^1H NMR spectrum of compound 5II-5.

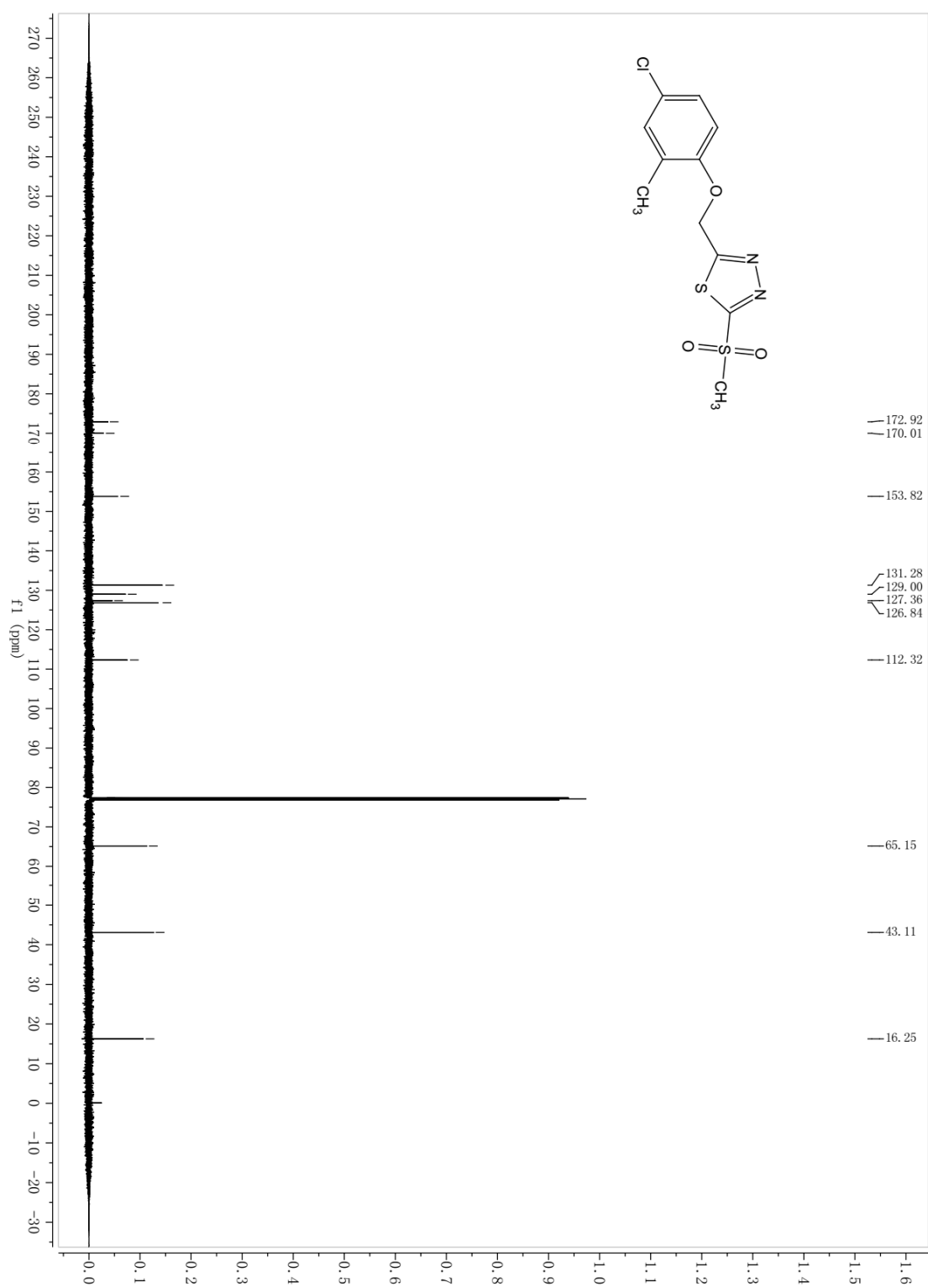
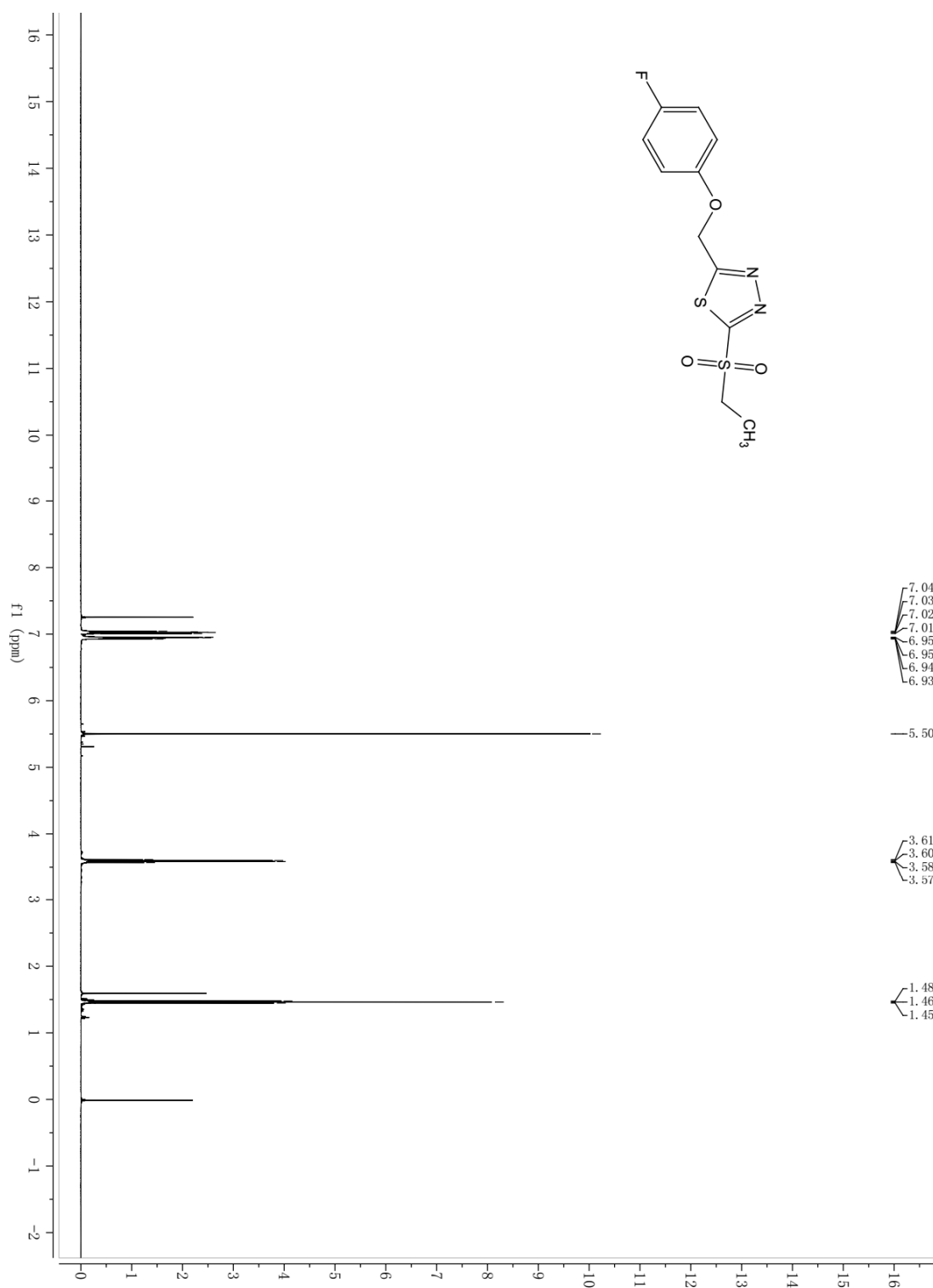
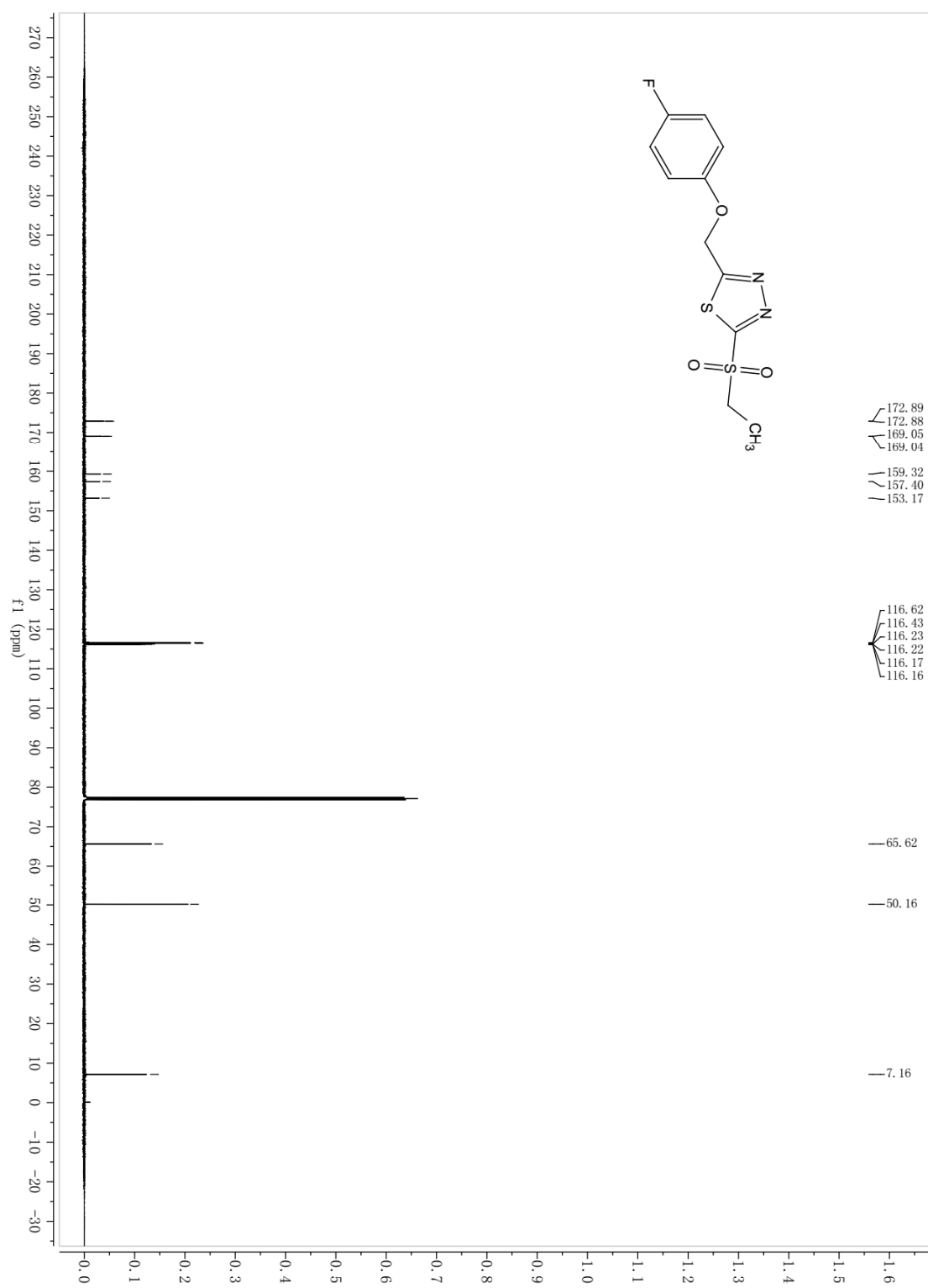
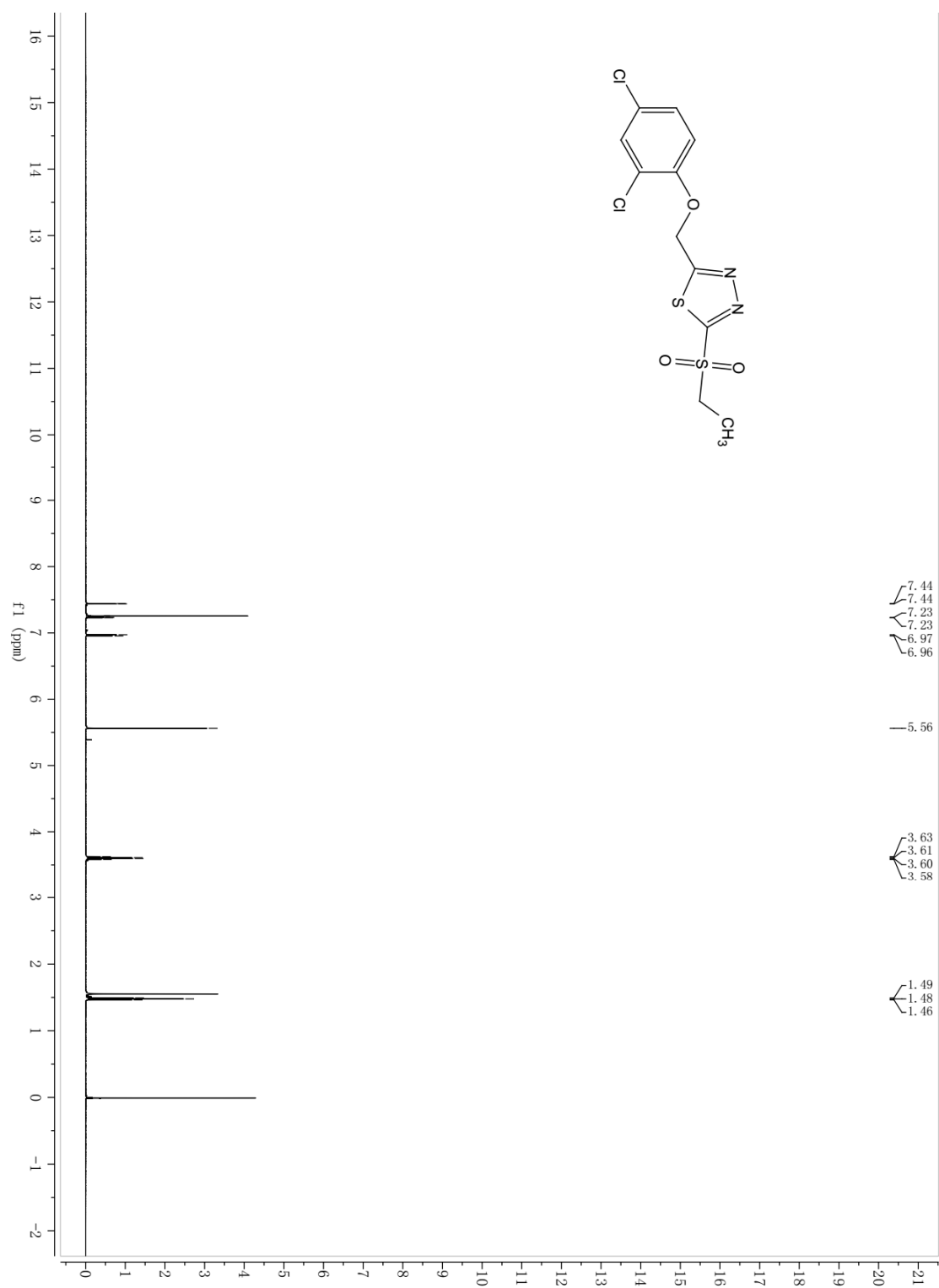
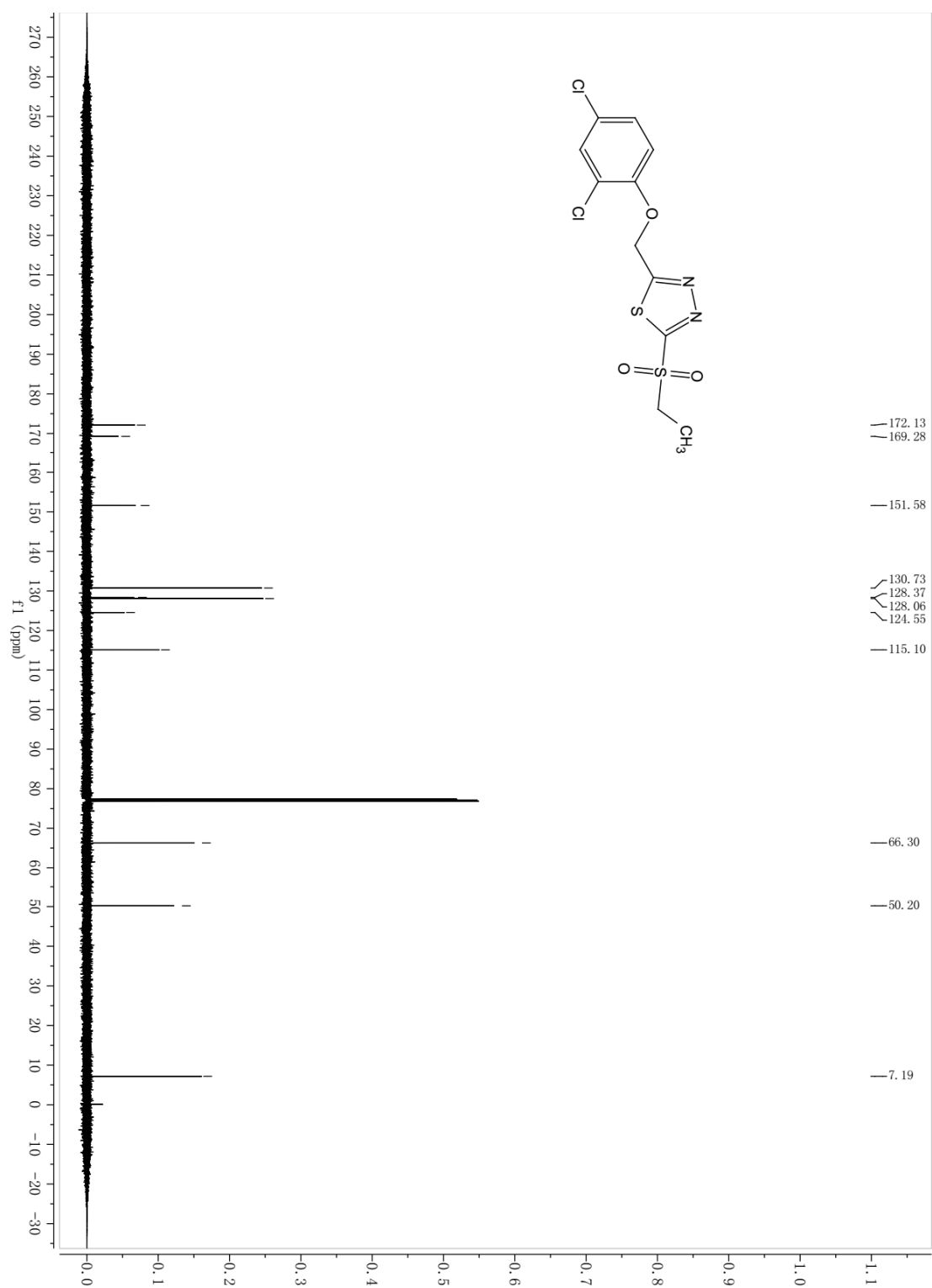


Figure S38. ^{13}C NMR spectrum of compound 5II-5.

Figure S39. ¹H NMR spectrum of compound 5II-6.

Figure S40. ¹³C NMR spectrum of compound 5II-6.

**Figure S41.** ¹H NMR spectrum of compound 5II-7.

Figure S42. ^{13}C NMR spectrum of compound 5II-7.

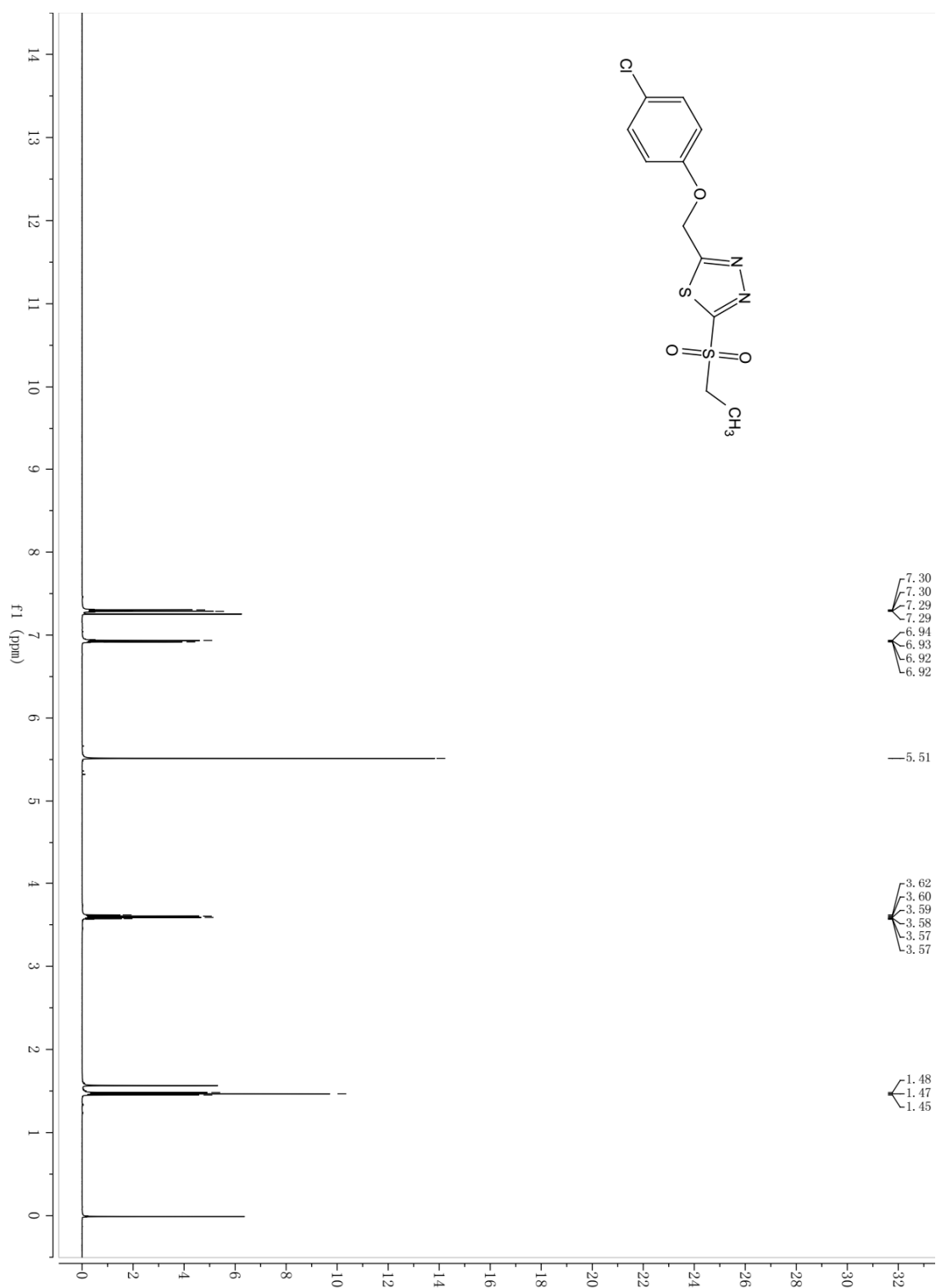
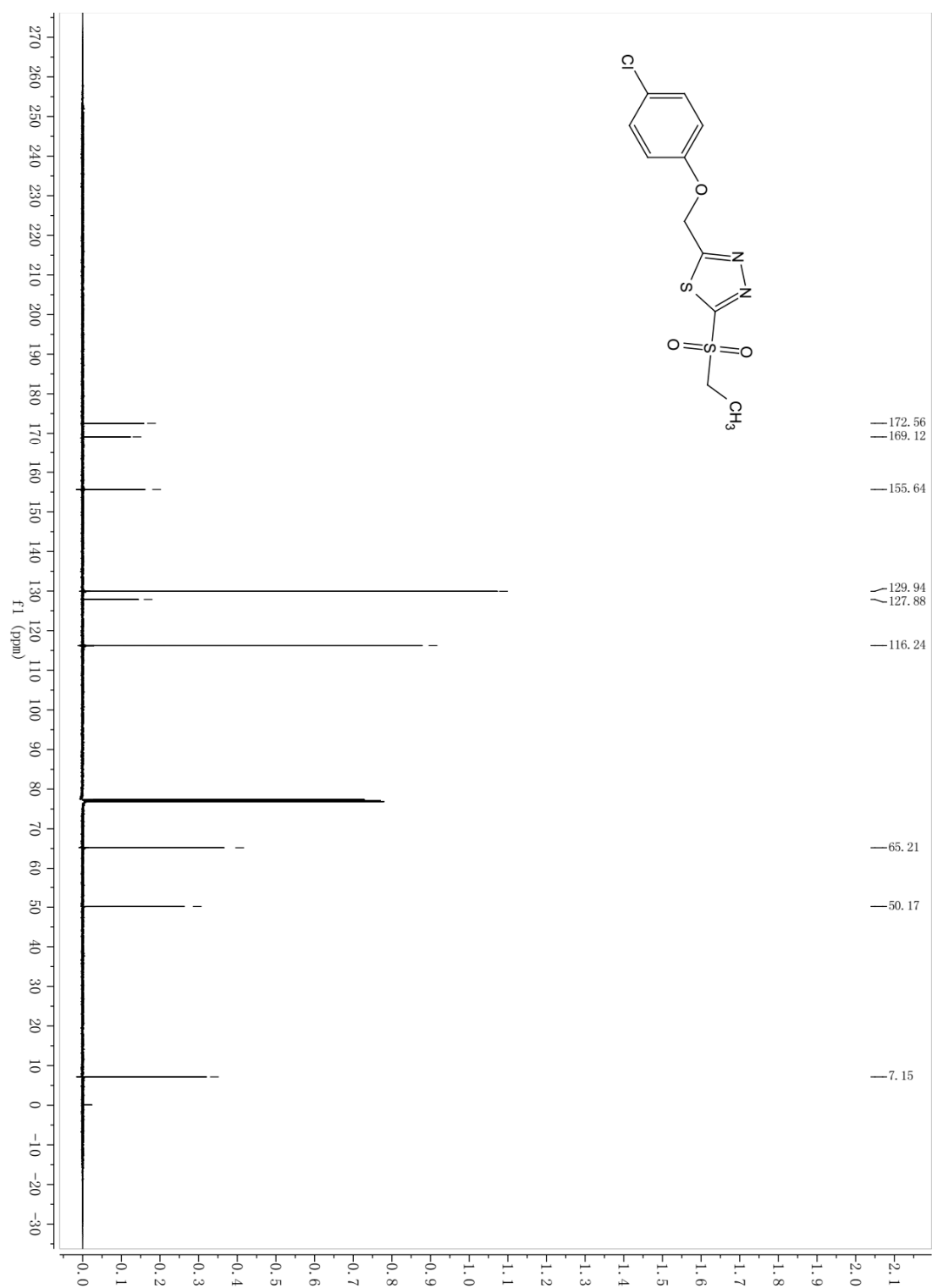
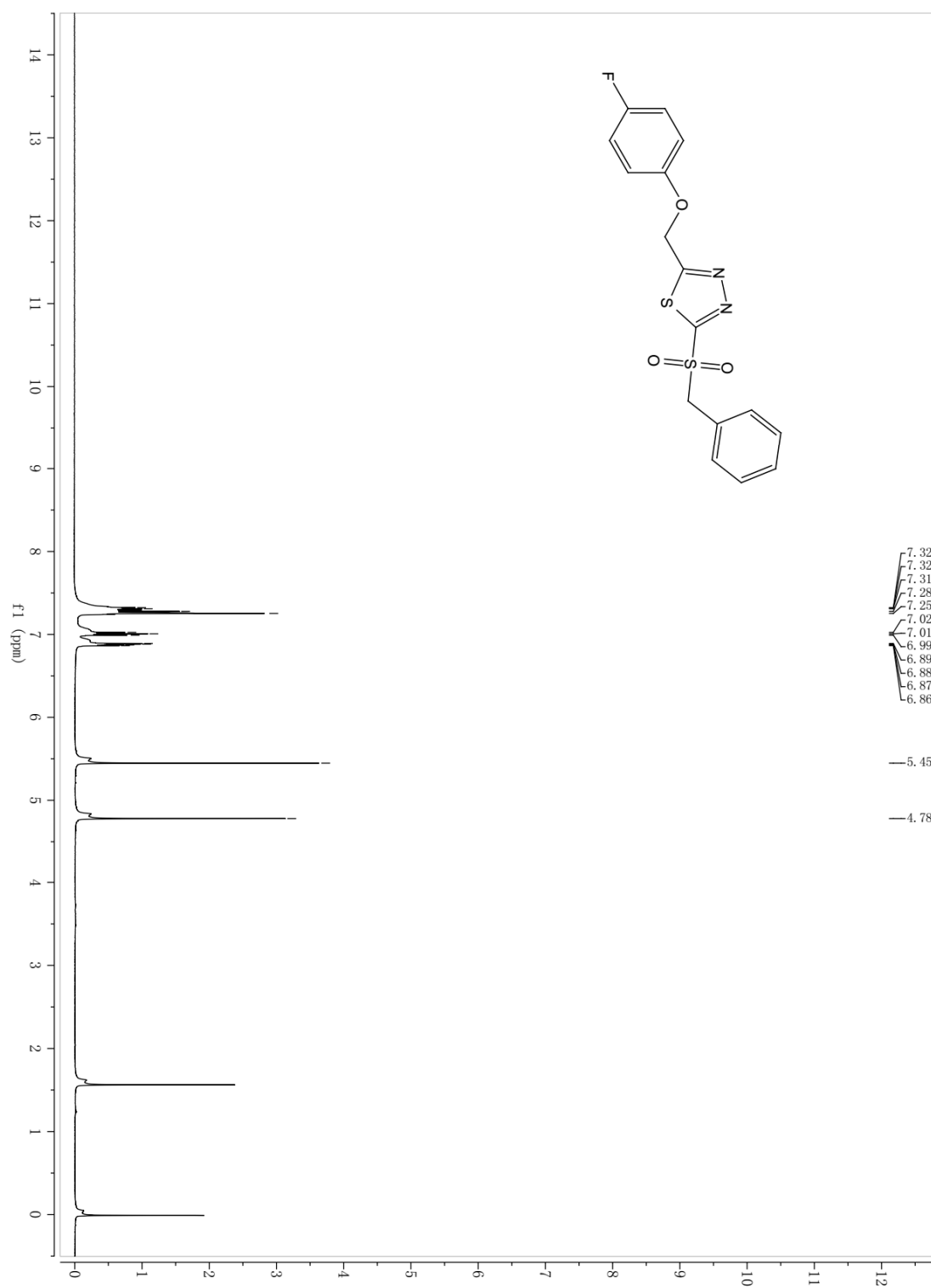
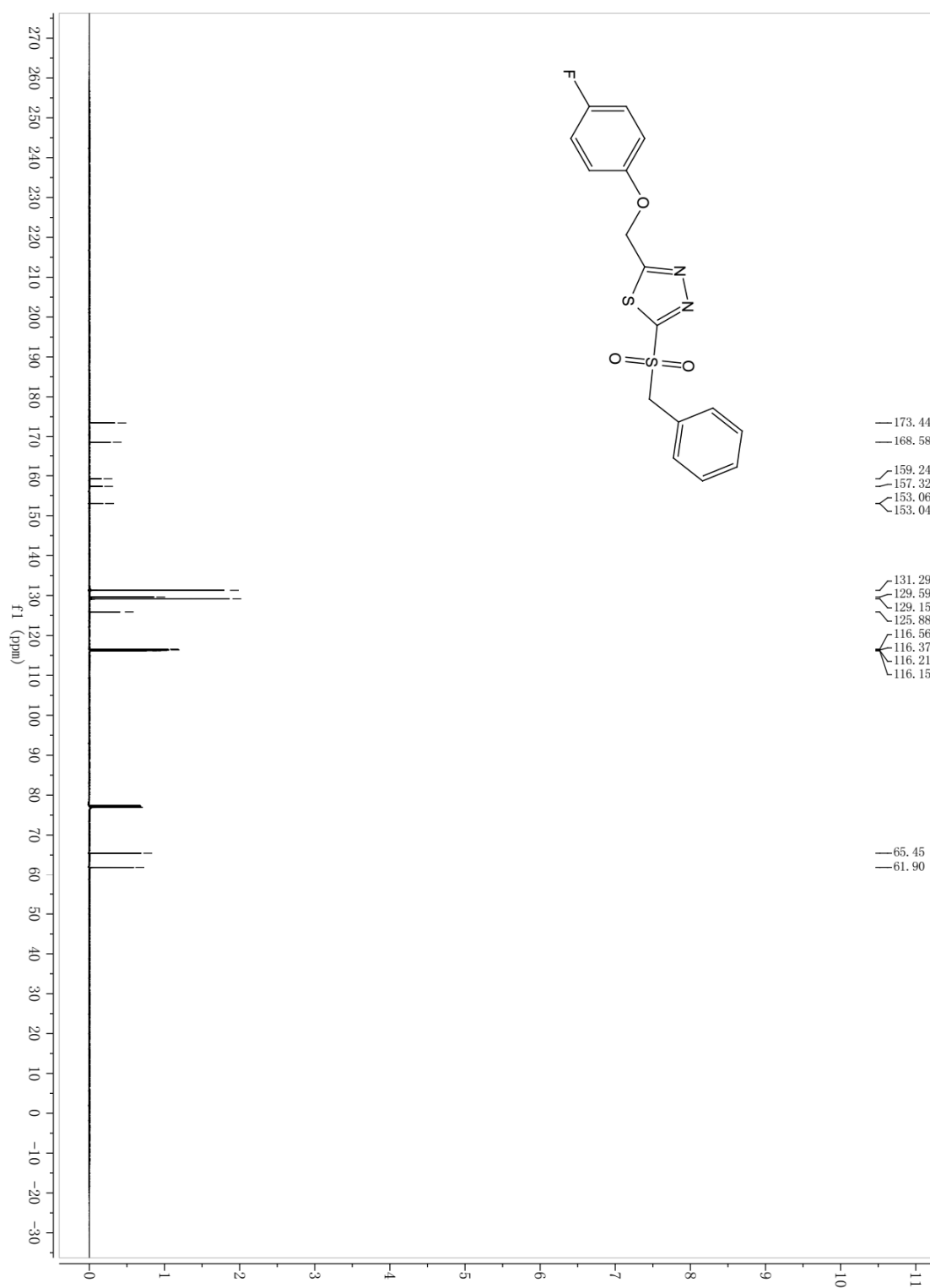


Figure S43. ¹H NMR spectrum of compound 5II-7.

Figure S44. ^{13}C NMR spectrum of compound 5II-7.

Figure S45. ¹H NMR spectrum of compound 5II-8.

Figure S46. ¹³C NMR spectrum of compound 5II-8.

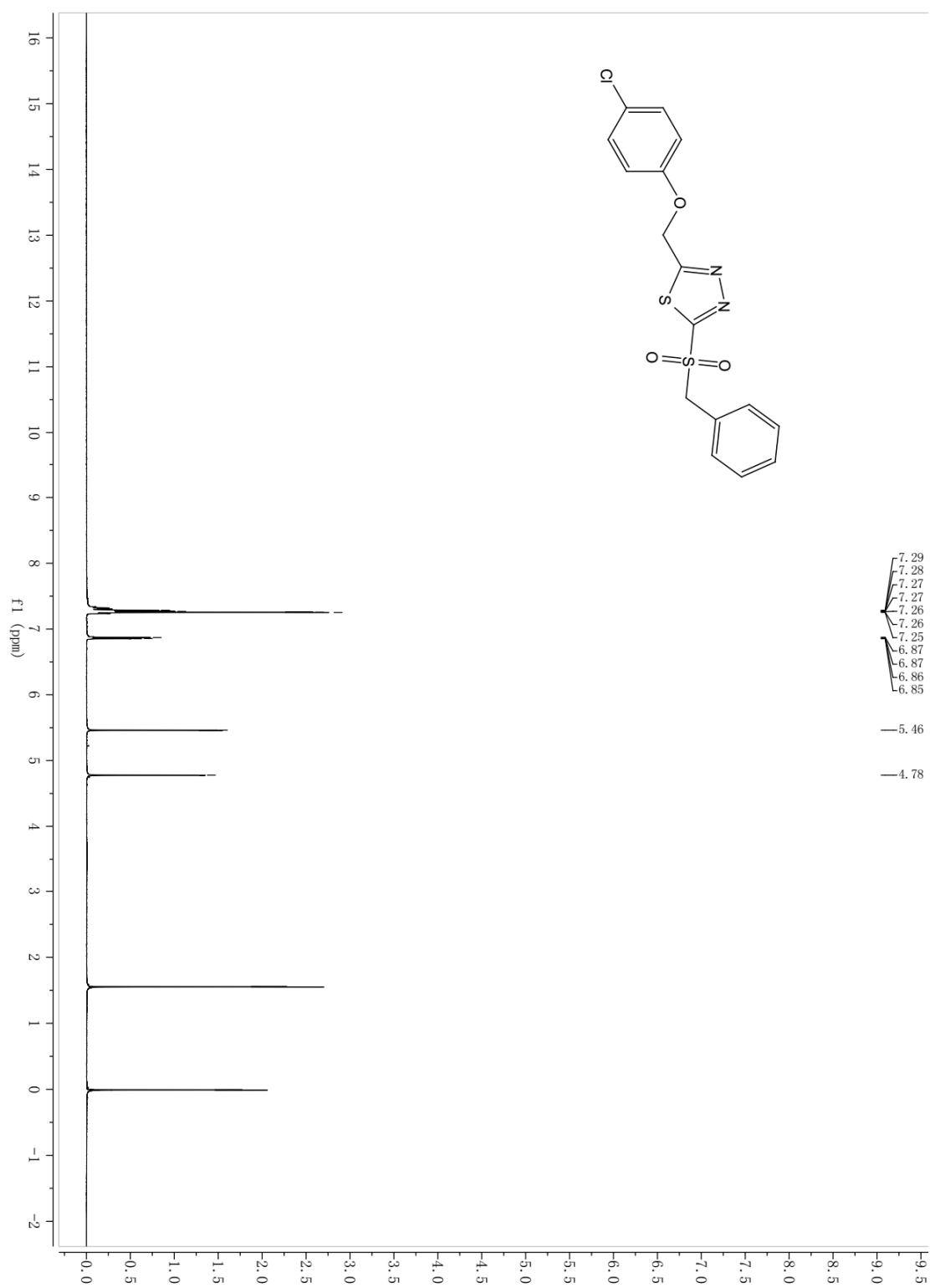
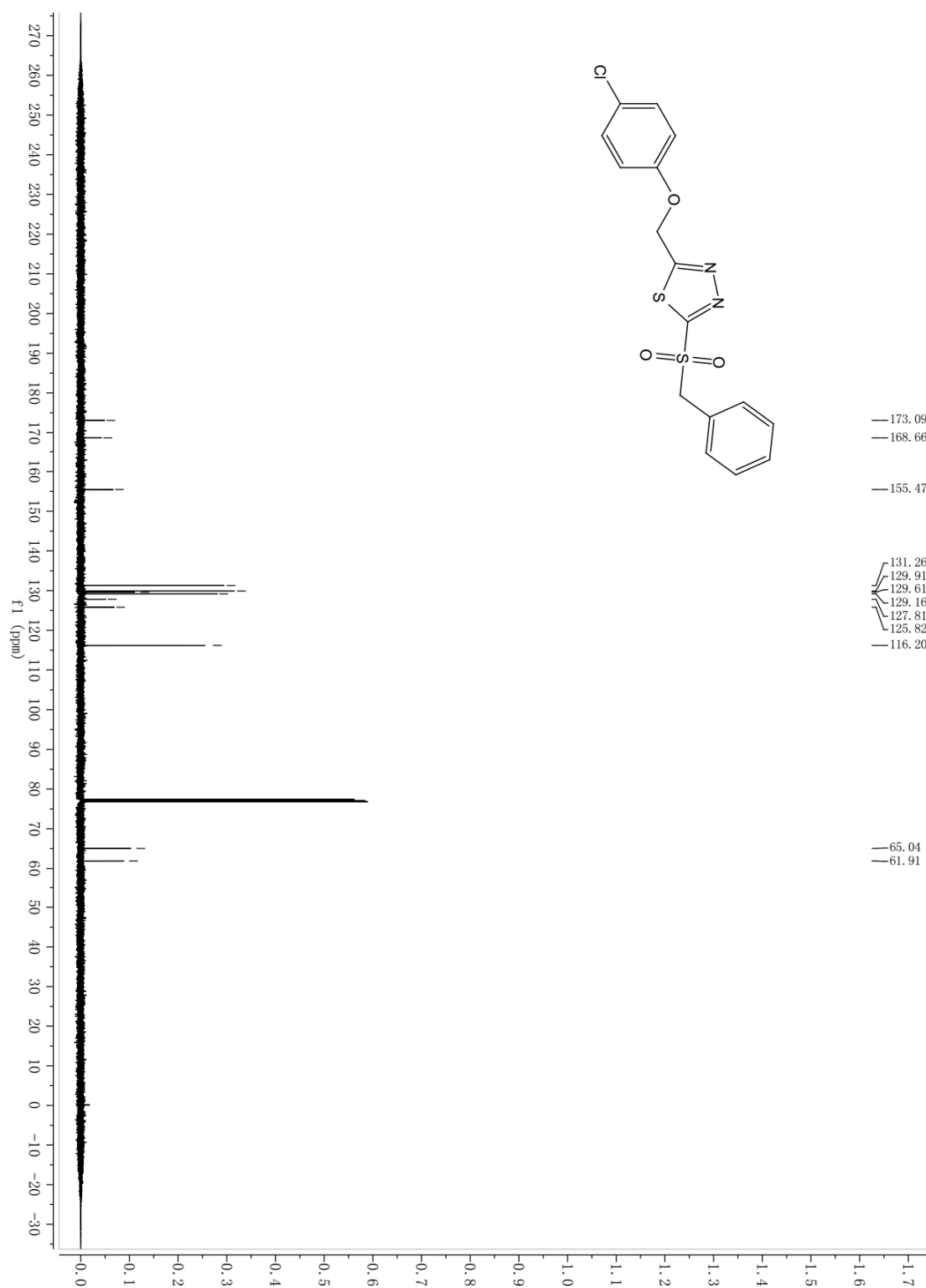
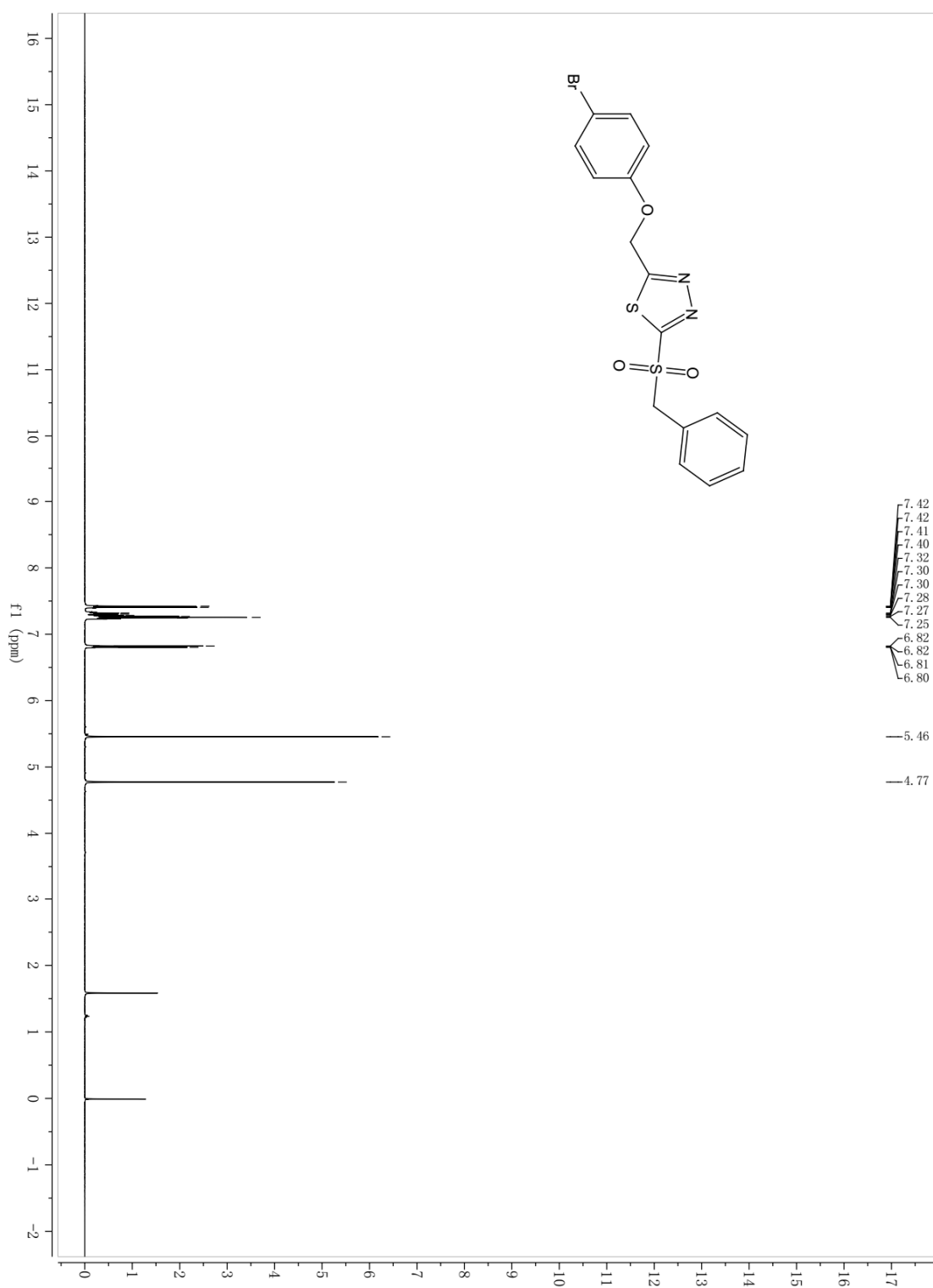
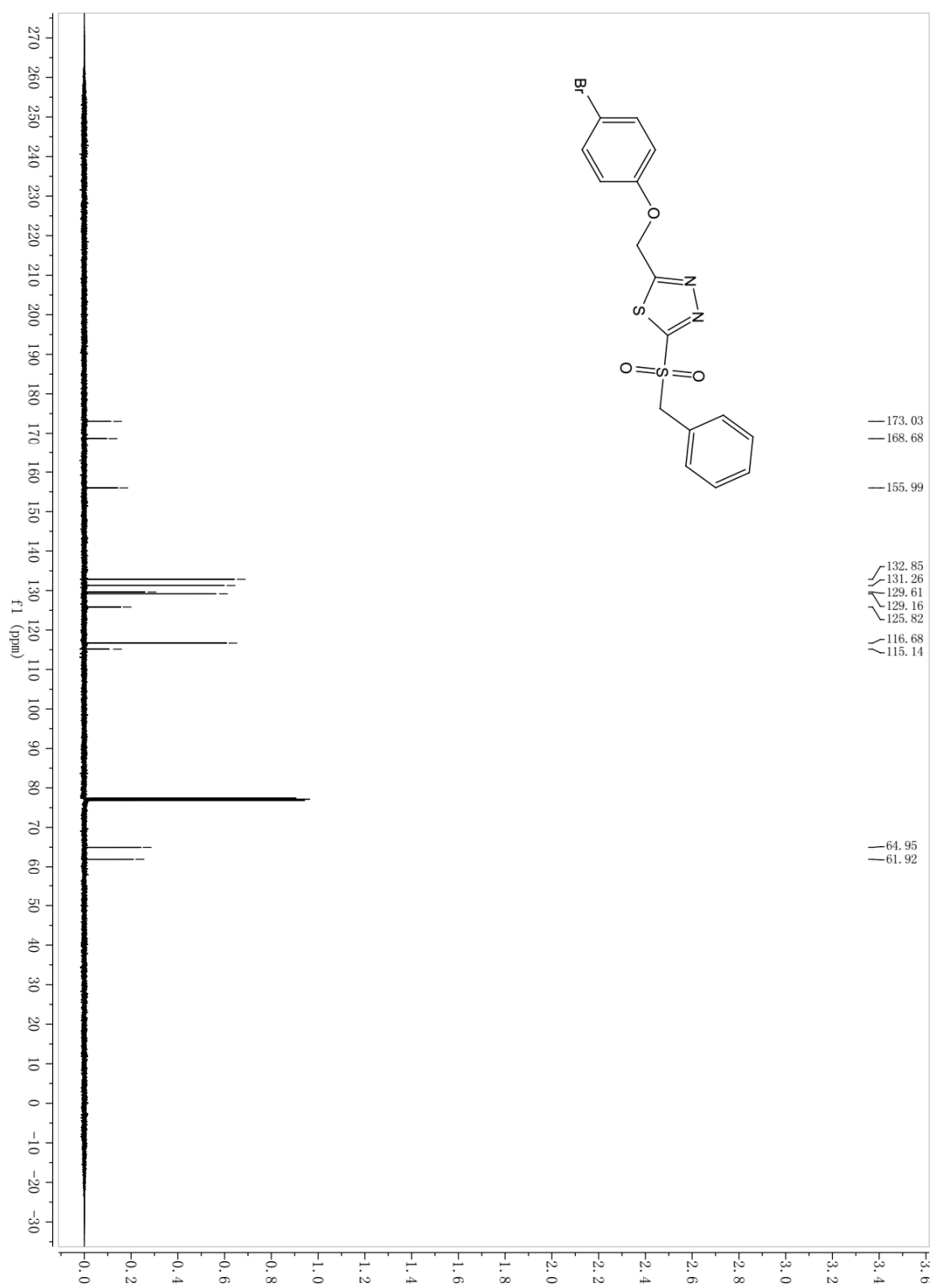


Figure S47. ¹H NMR spectrum of compound 5II-9.

Figure S48. ¹³C NMR spectrum of compound 5II-9.

Figure S49. ¹H NMR spectrum of compound 5II-10.

**Figure S50.** ^{13}C NMR spectrum of compound 5II-10.

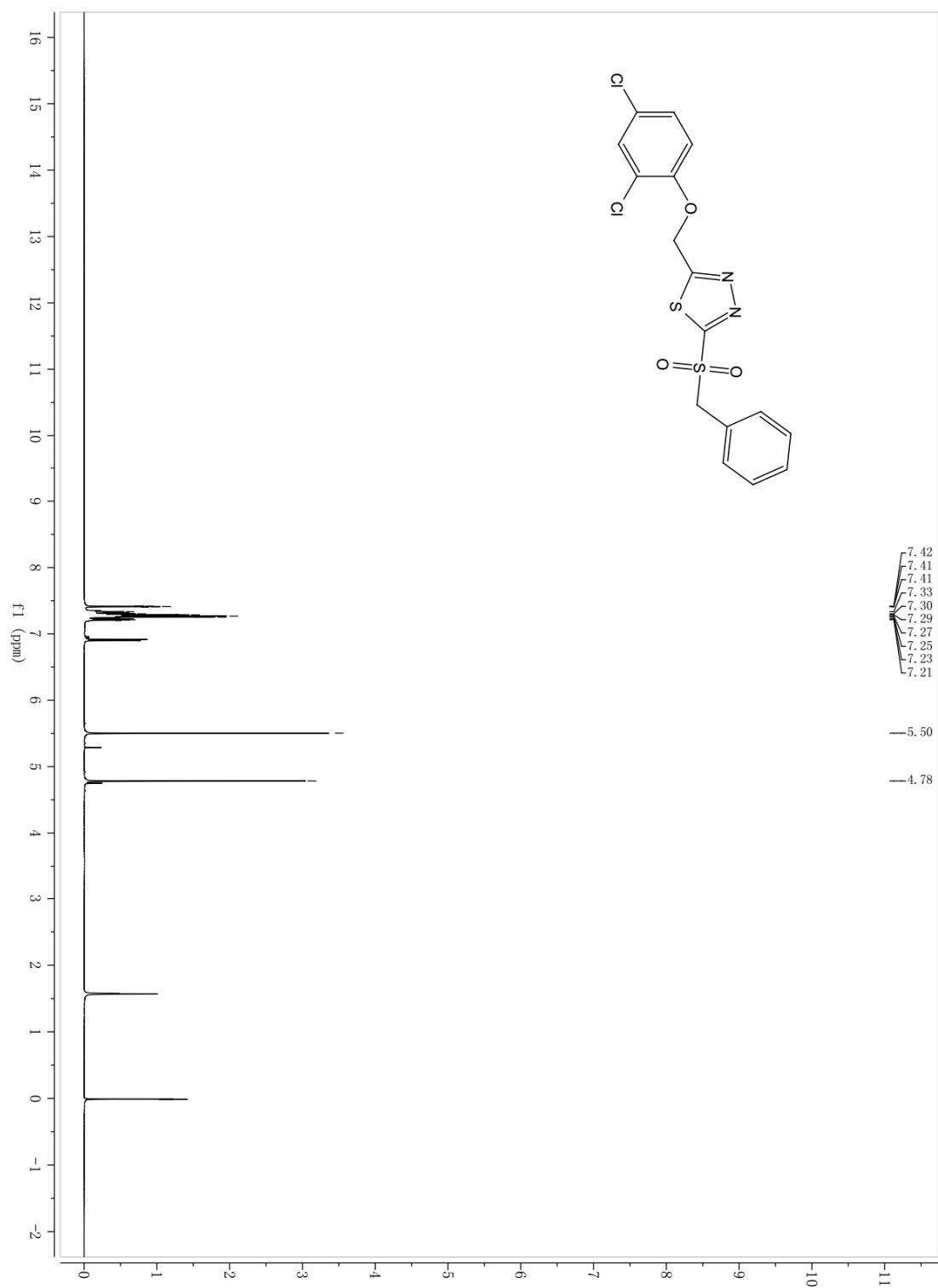


Figure S51. ¹H NMR spectrum of compound 5II-11.

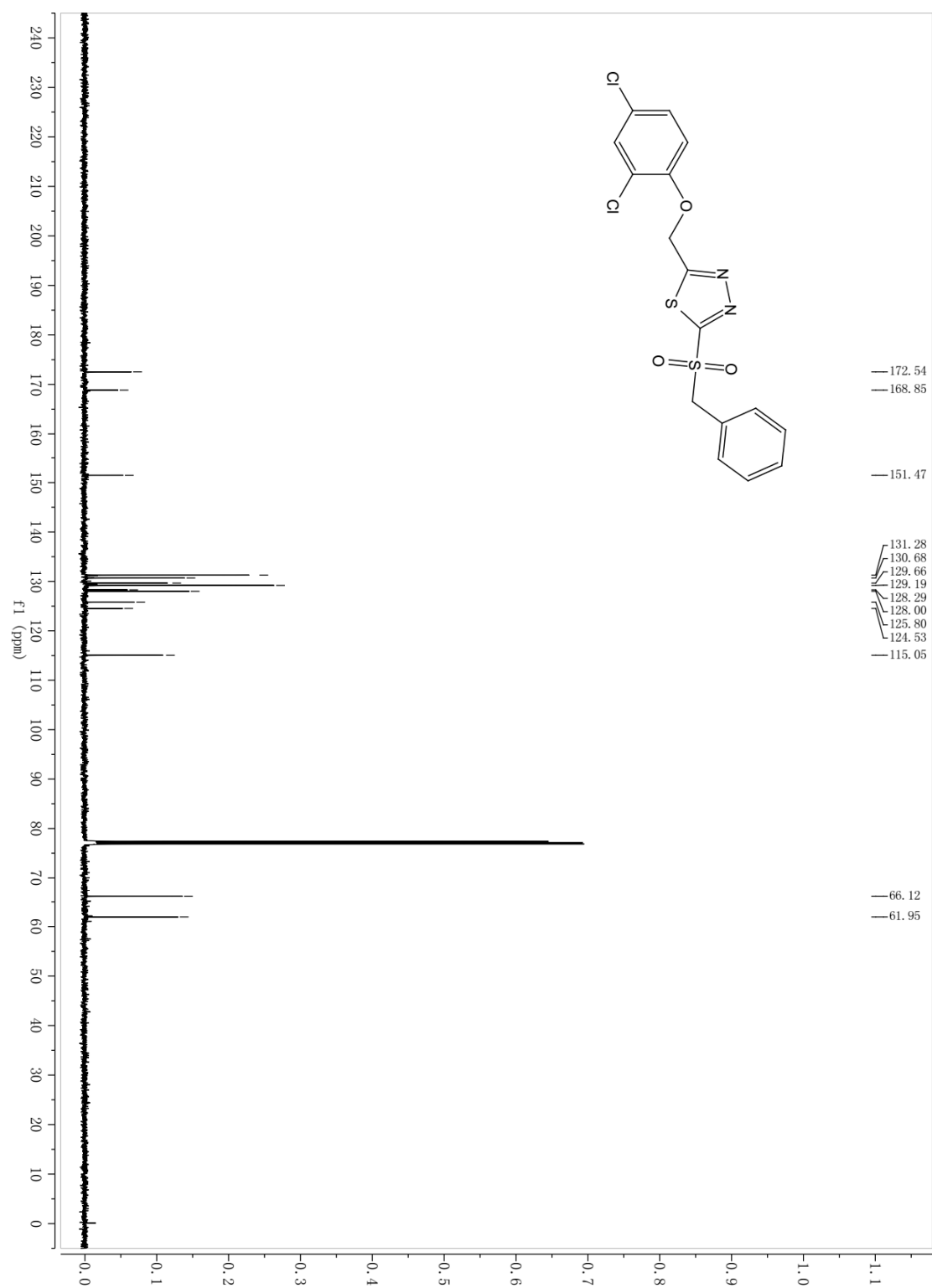
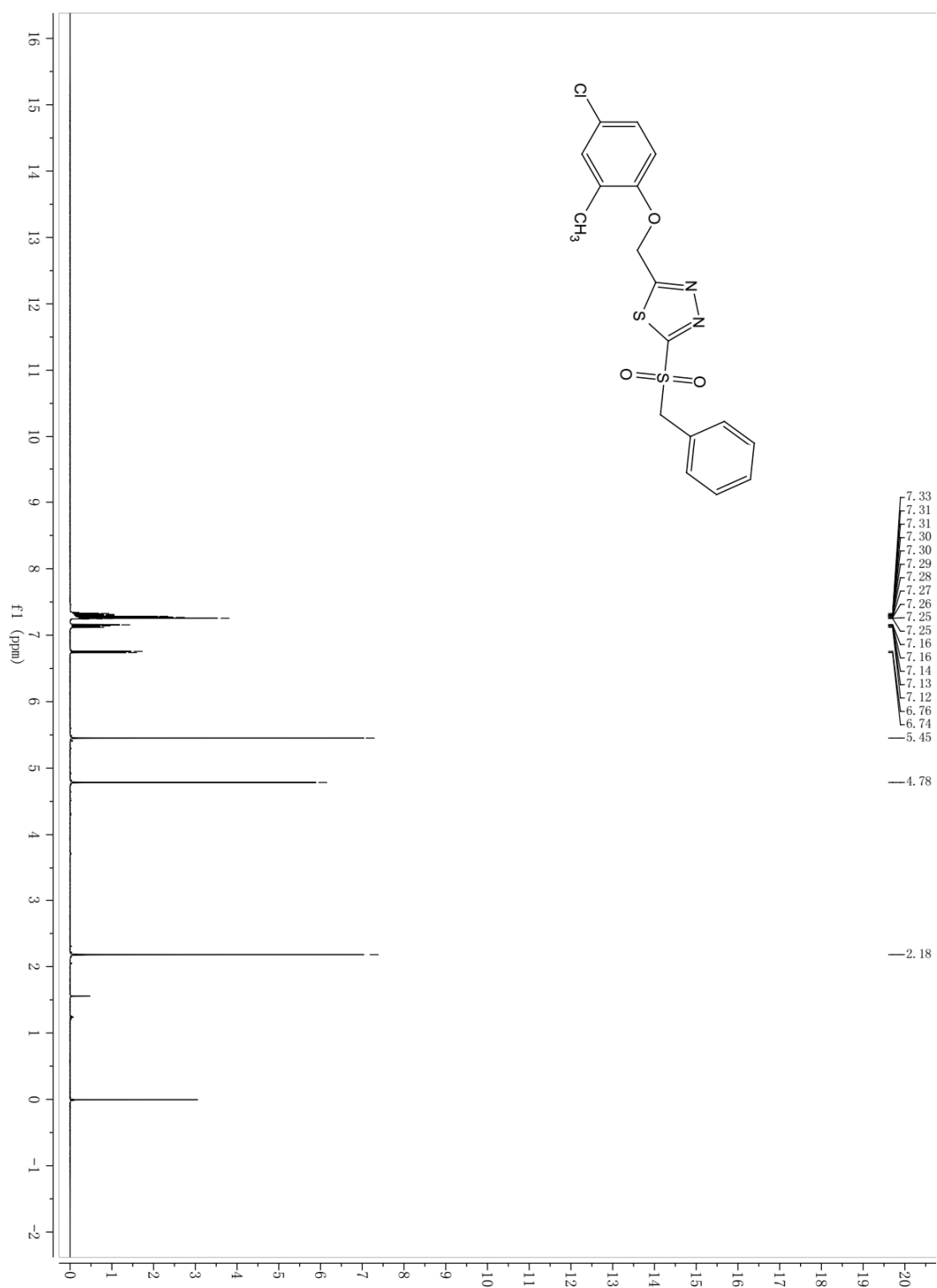
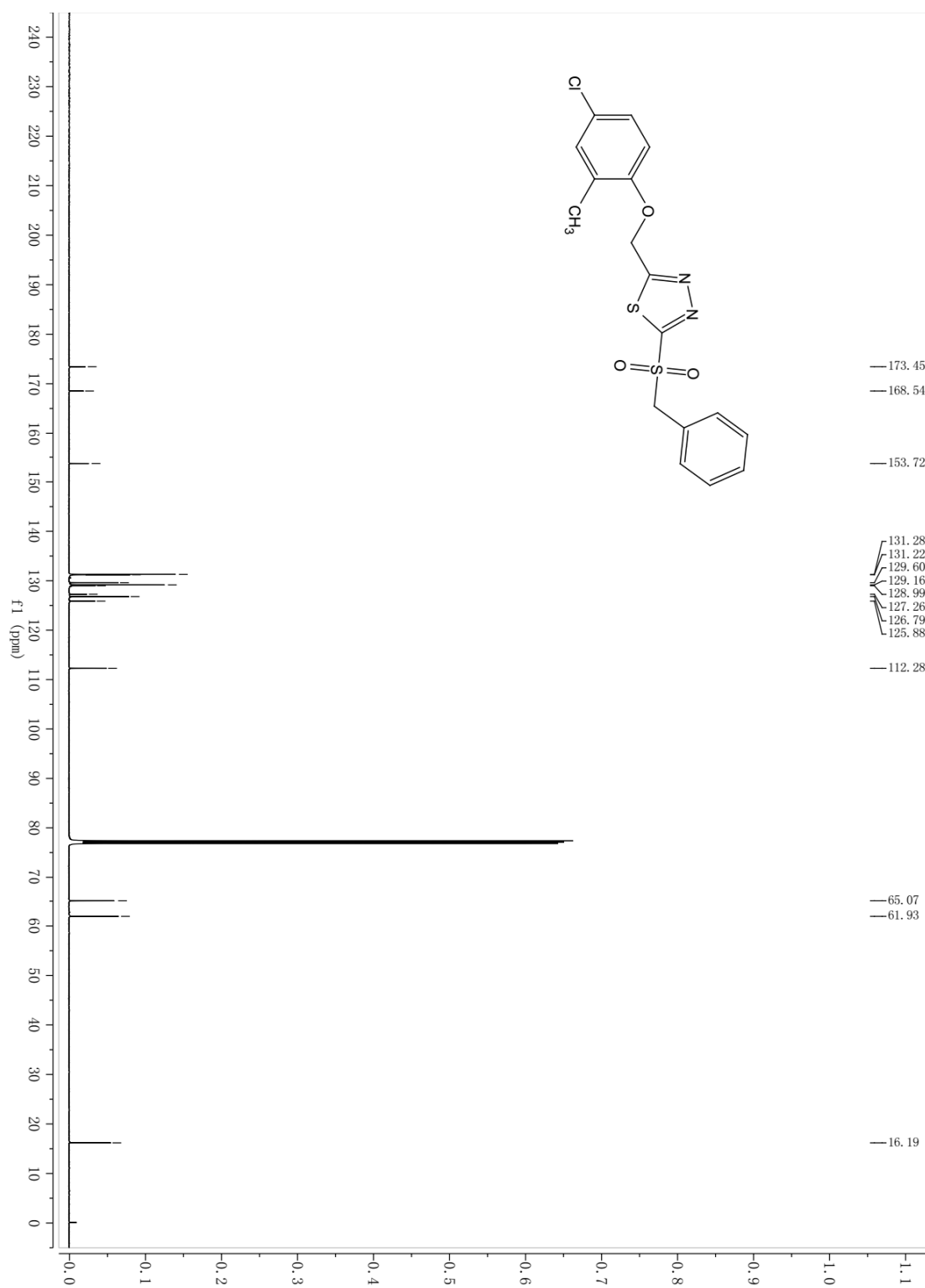


Figure S52. ^{13}C NMR spectrum of compound 5II-11.

Figure S53. ¹H NMR spectrum of compound 5II-12.

**Figure S54.** ¹³C NMR spectrum of compound 5II-12.