

Supporting Information

Synthesis of Novel Pyrazole Derivatives Containing Phenylpyridine Moieties with Herbicidal Activity

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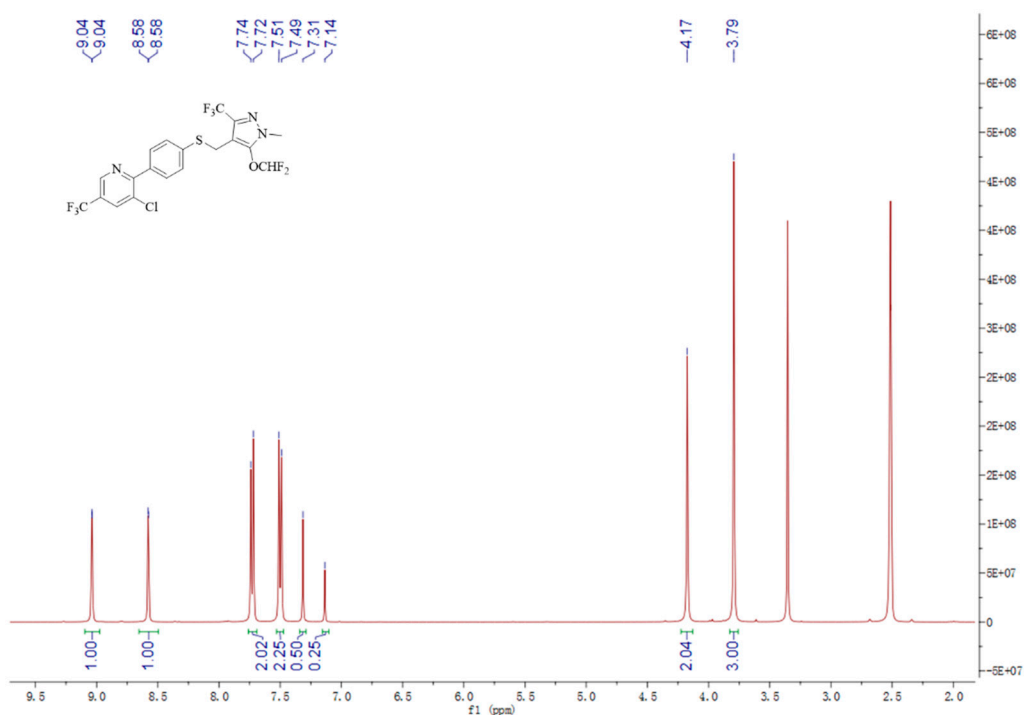
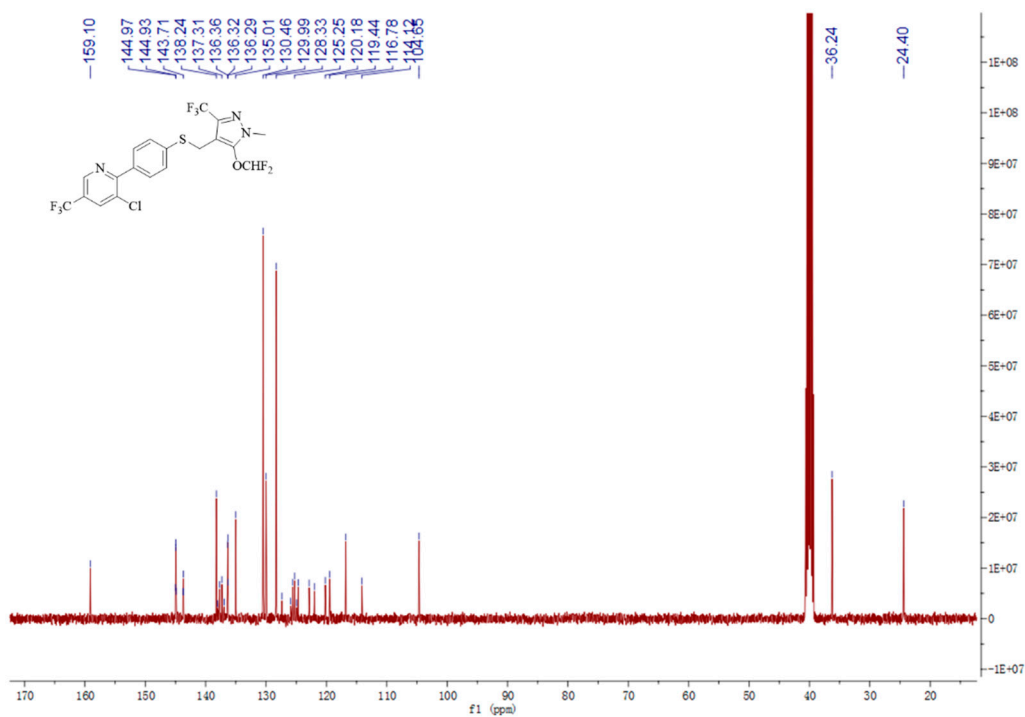
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1. ^1H NMR, ^{13}C NMR and HRMS spectra of target compounds 6a–6e and 7a–7eFigure S1. ^1H NMR of compound 6a.Figure S2. ^{13}C NMR of compound 6a.

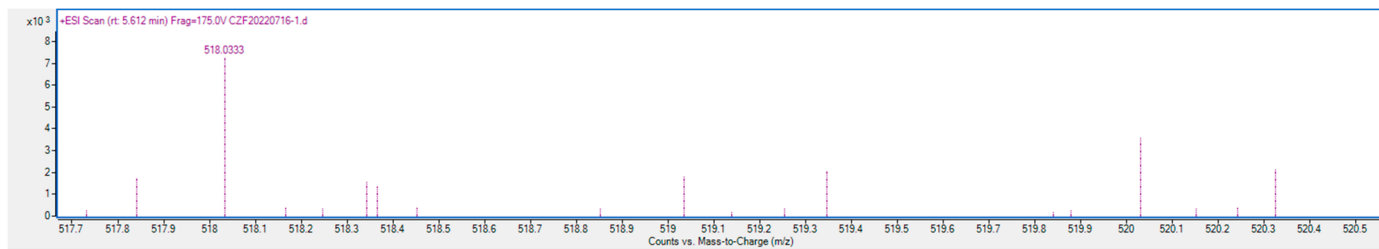
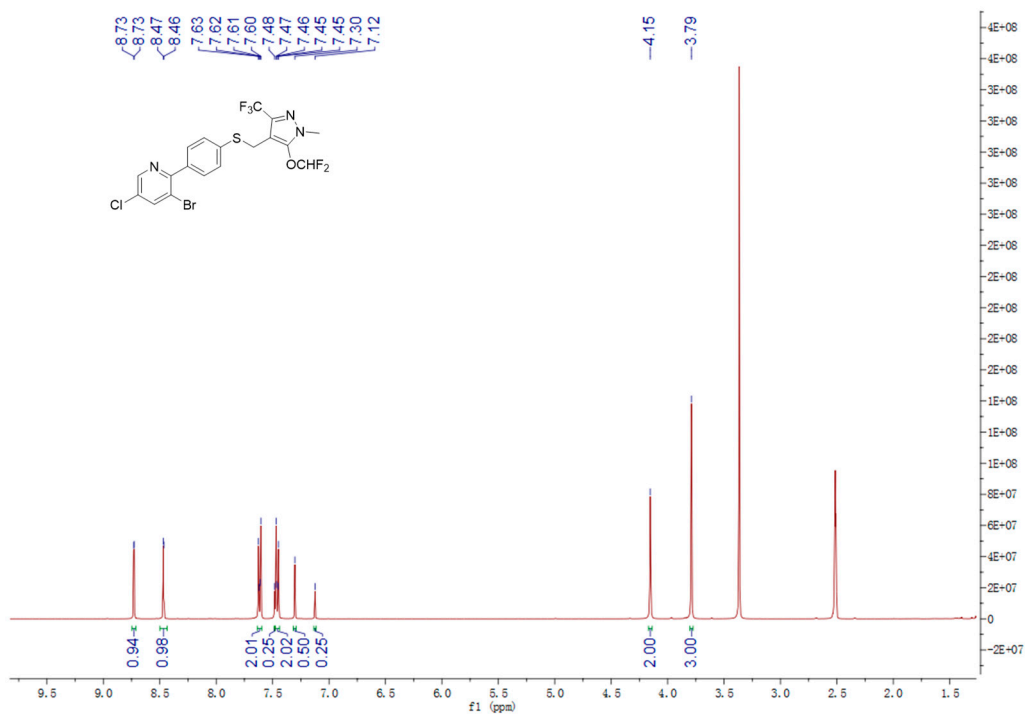
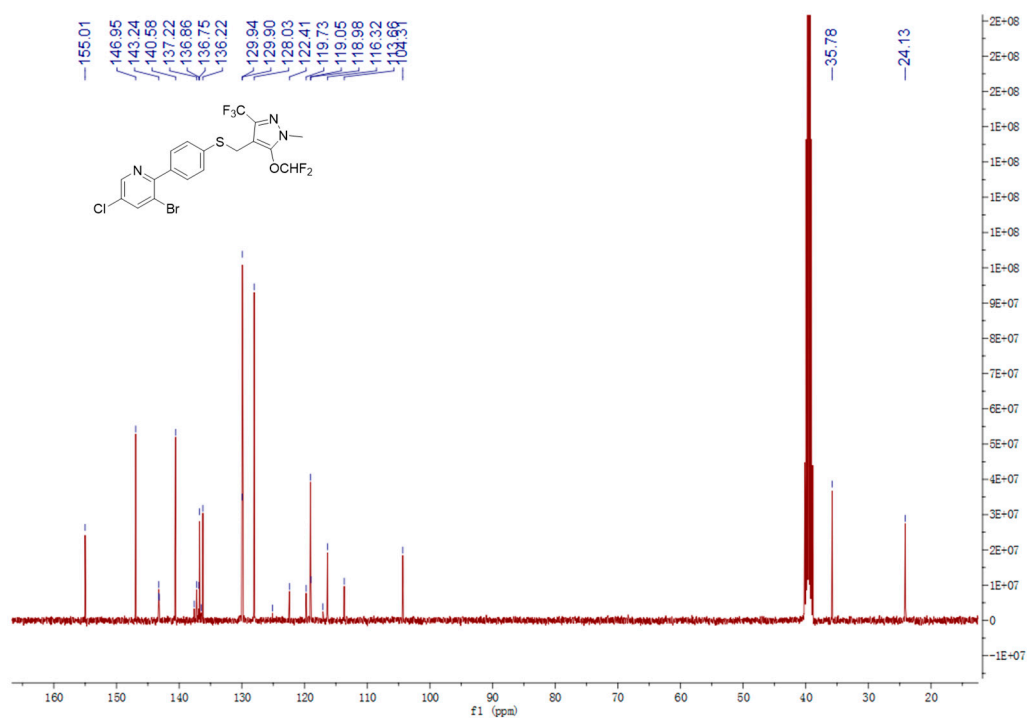
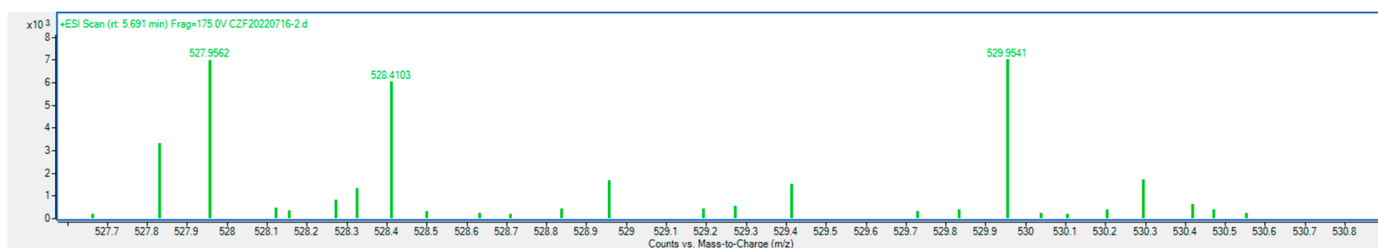
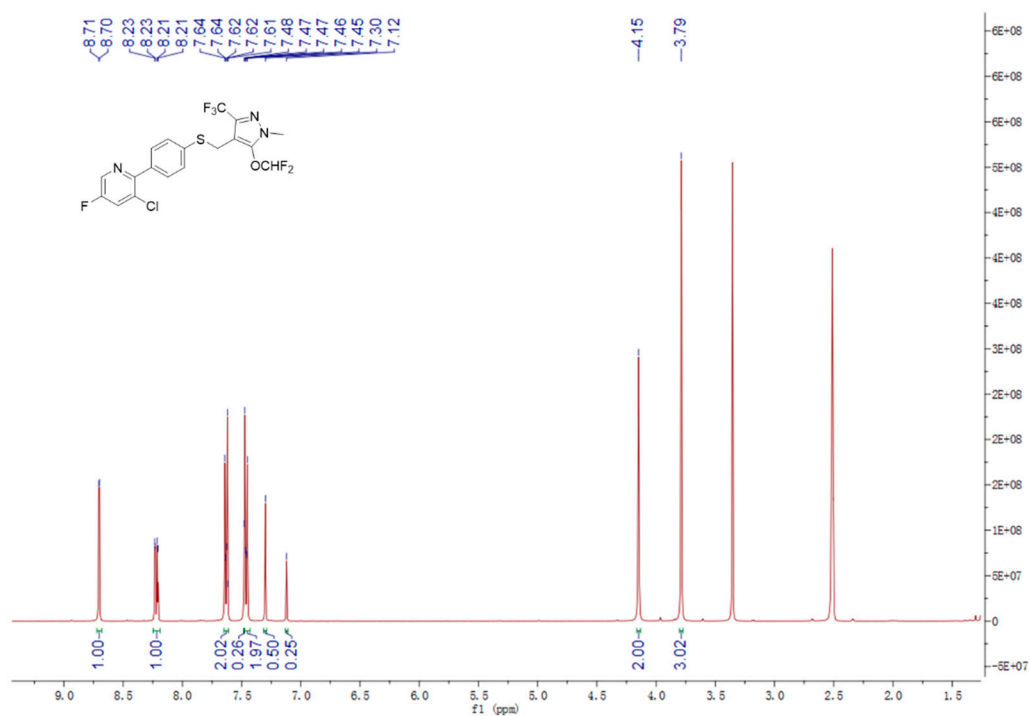
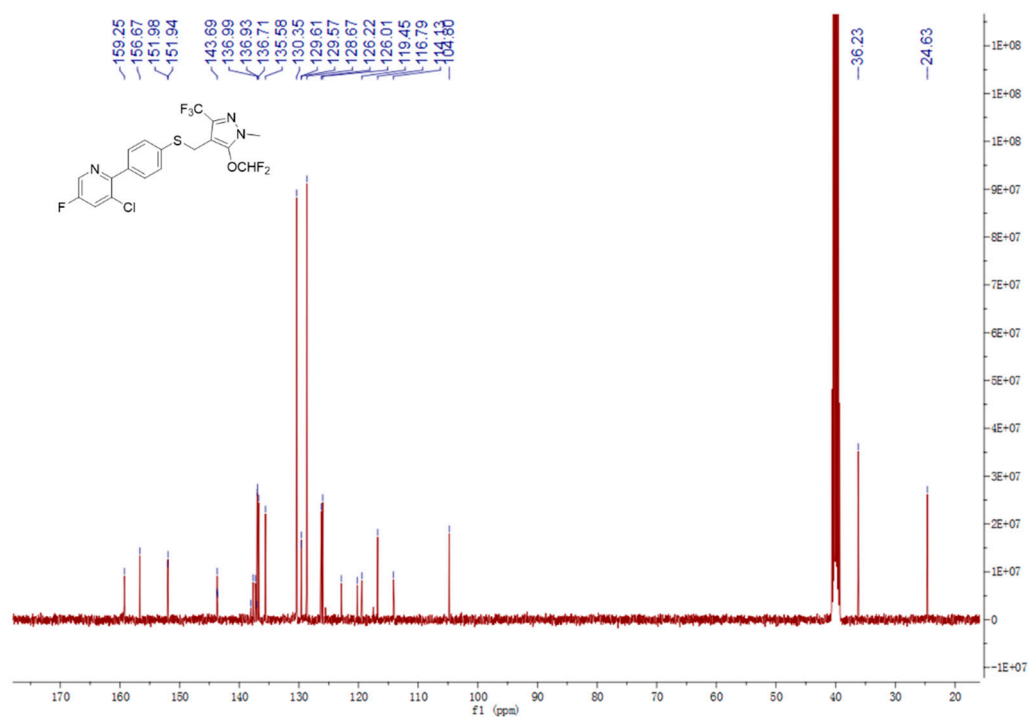


Figure S3. HRMS of compound 6a.

Figure S4. ^1H NMR of compound 6b.

Figure S5. ¹³C NMR of compound **6b**.Figure S6. HRMS of compound **6b**.

Figure S7. ¹H NMR of compound 6c.Figure S8. ¹³C NMR of compound 6c.

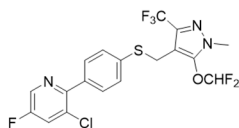
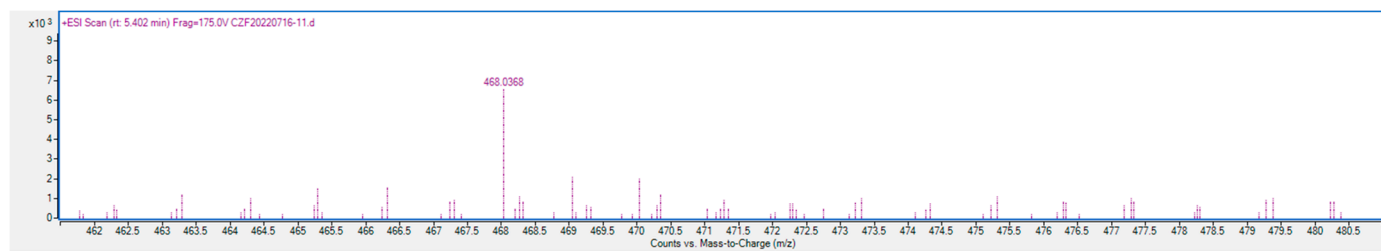
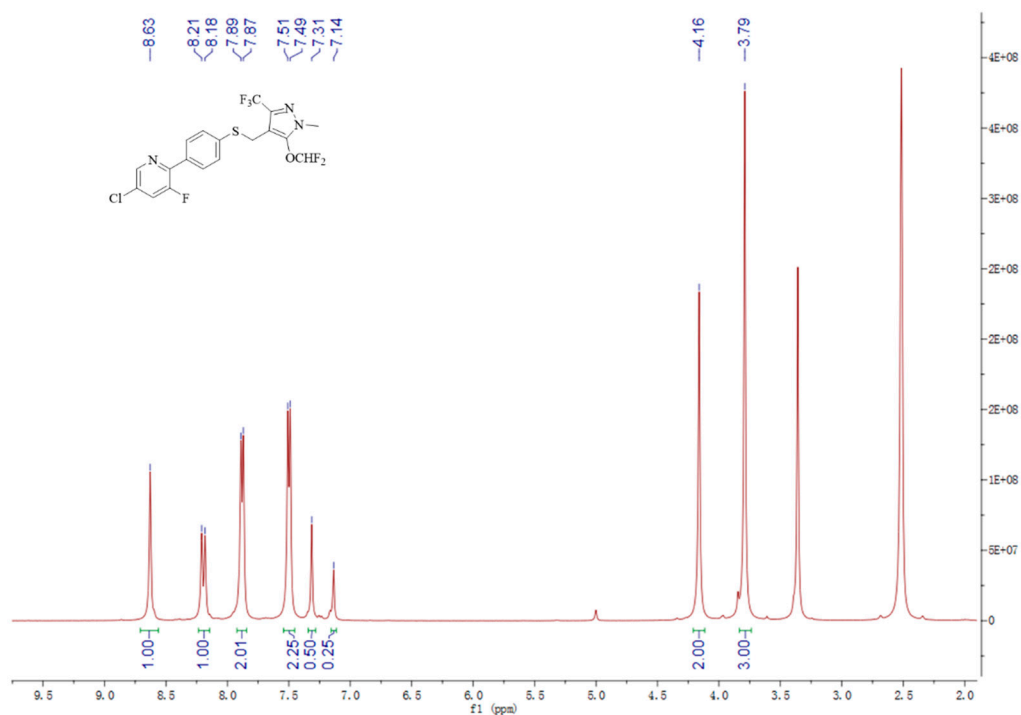


Figure S9. HRMS of compound 6c.

Figure S10. ¹H NMR of compound 6d.

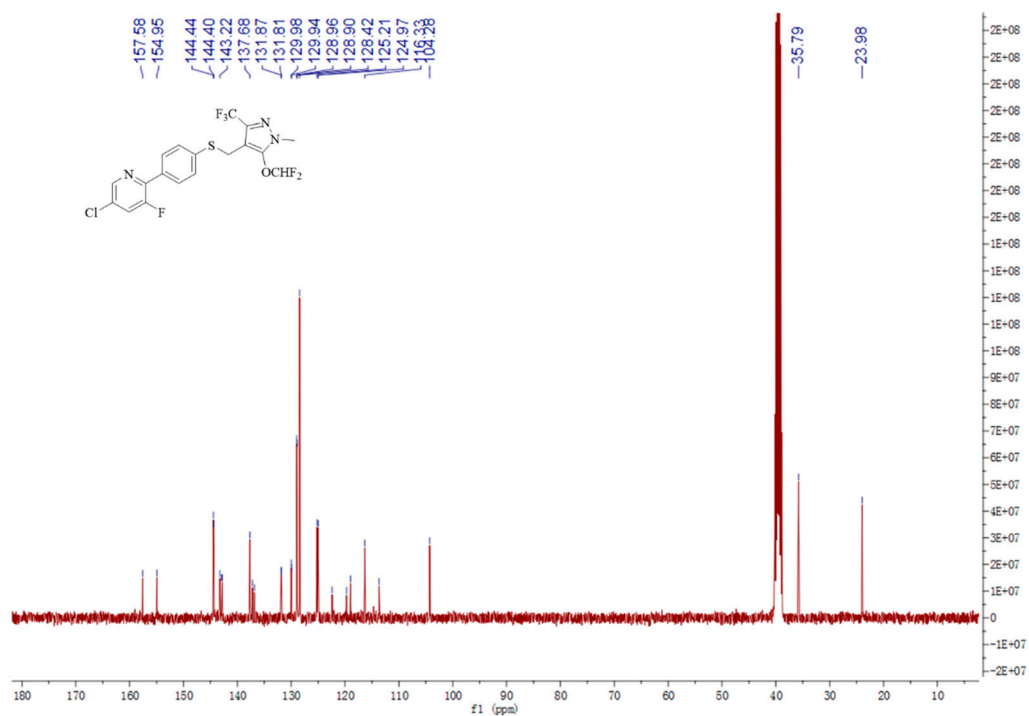
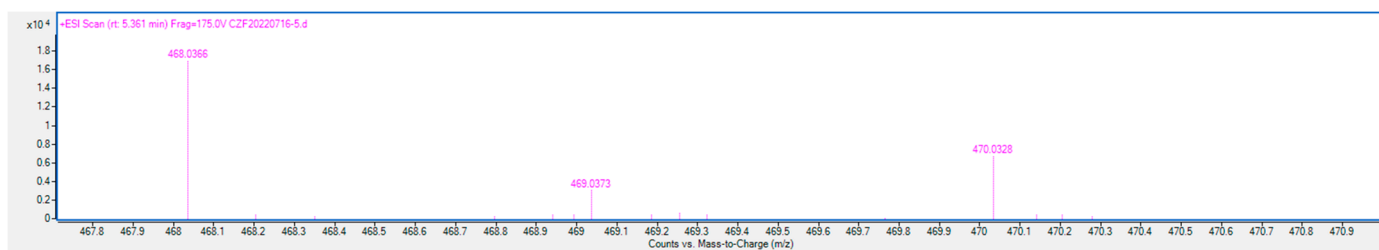
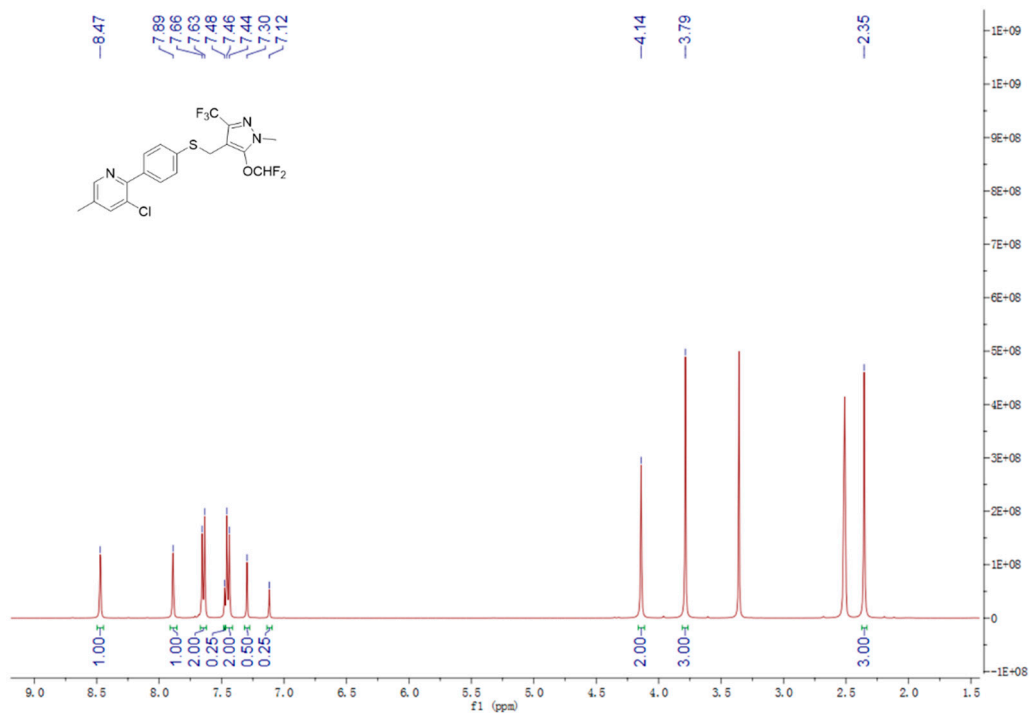
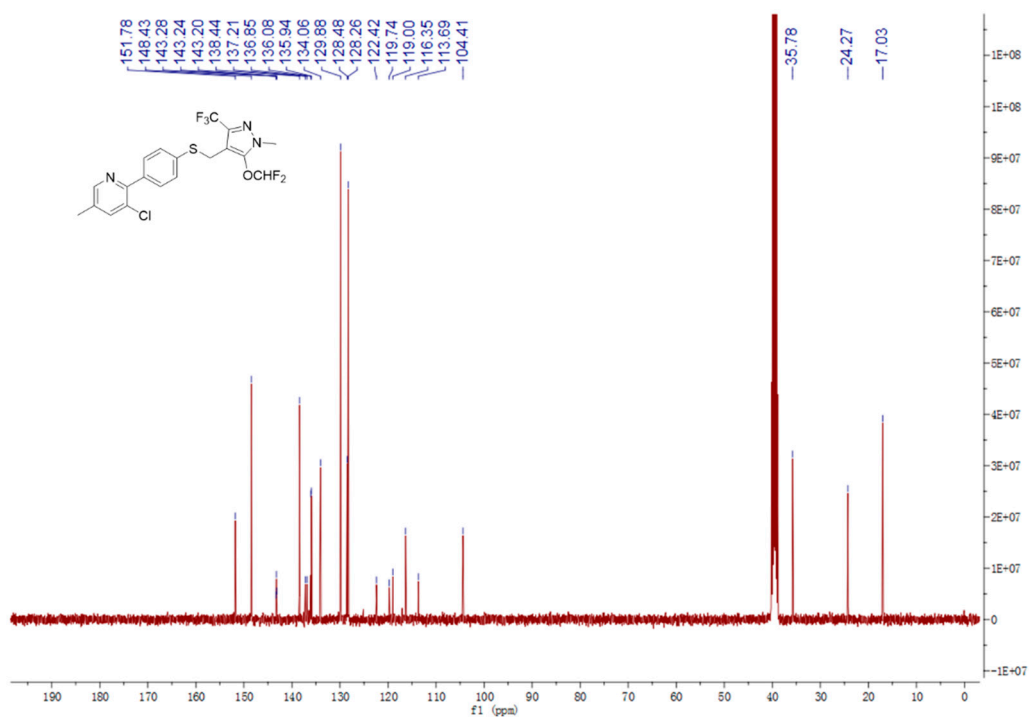
Figure S11. ¹³C NMR of compound 6d.

Figure S12. HRMS of compound 6d.

Figure S13. ¹H NMR of compound **6e**.Figure S14. ¹³C NMR of compound **6e**.

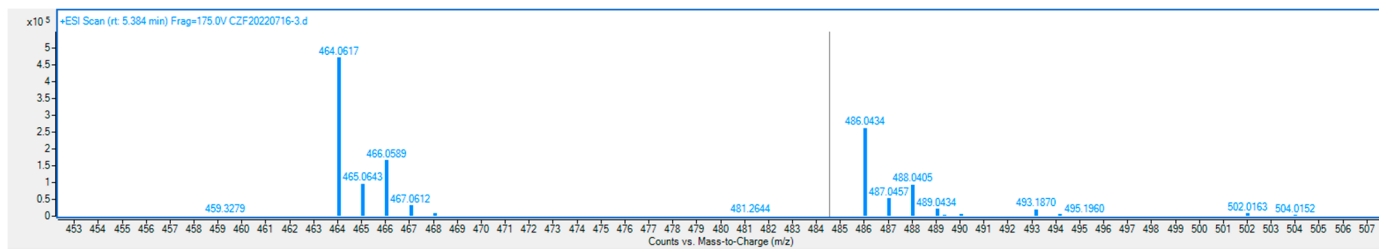
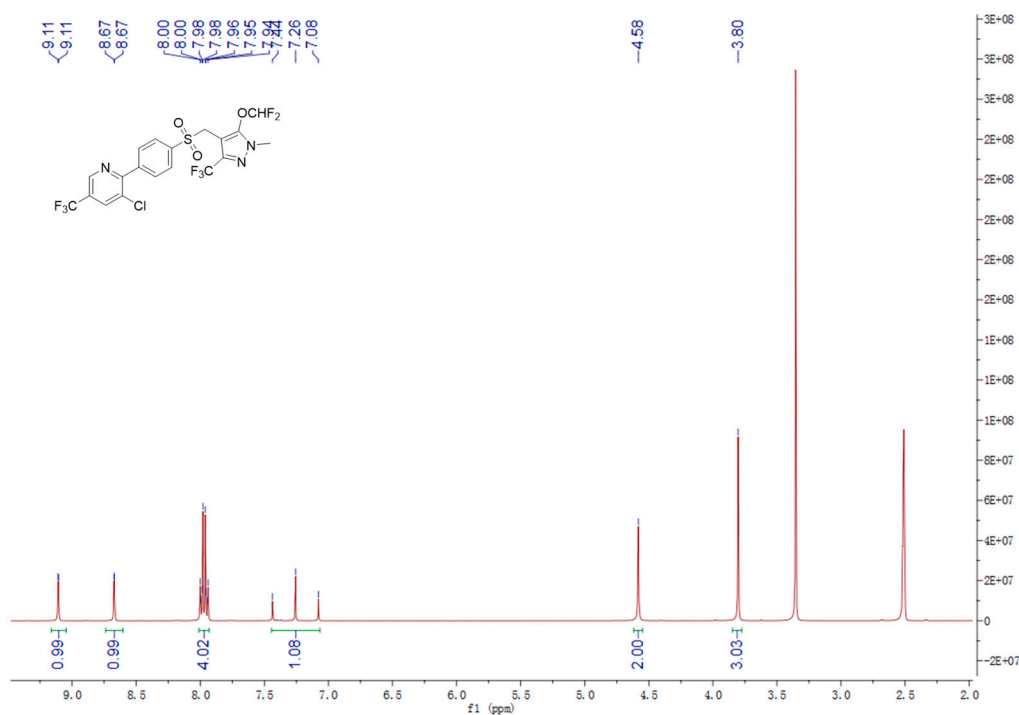


Figure S15. HRMS of compound 6e.

Figure S16. ¹H NMR of compound 7a.

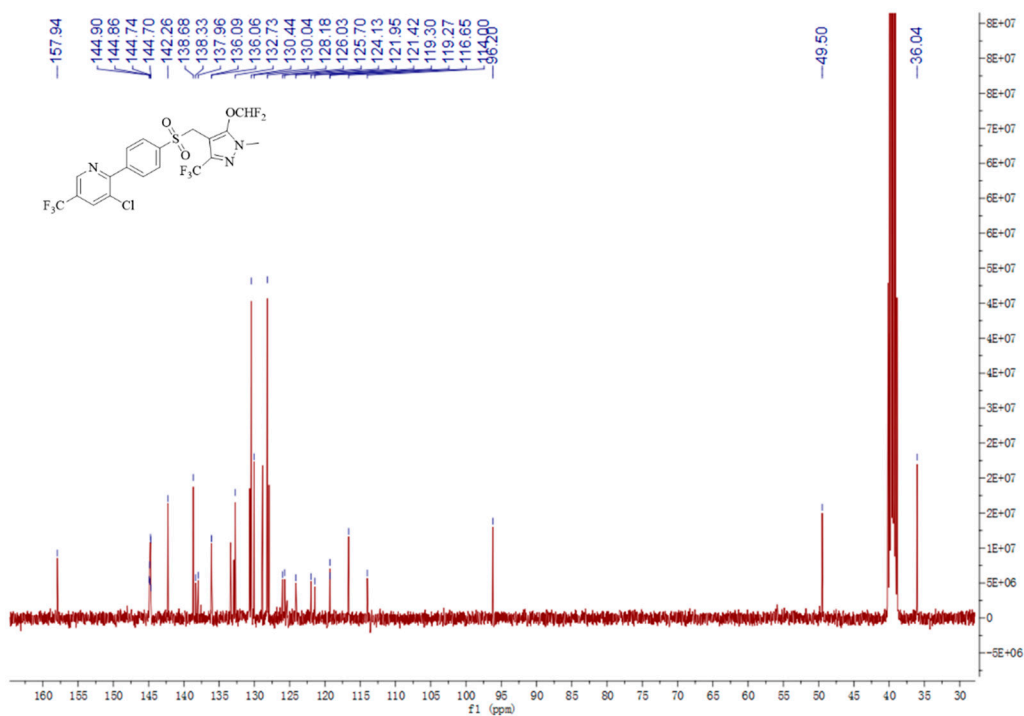
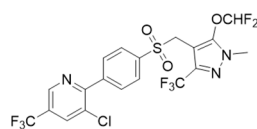
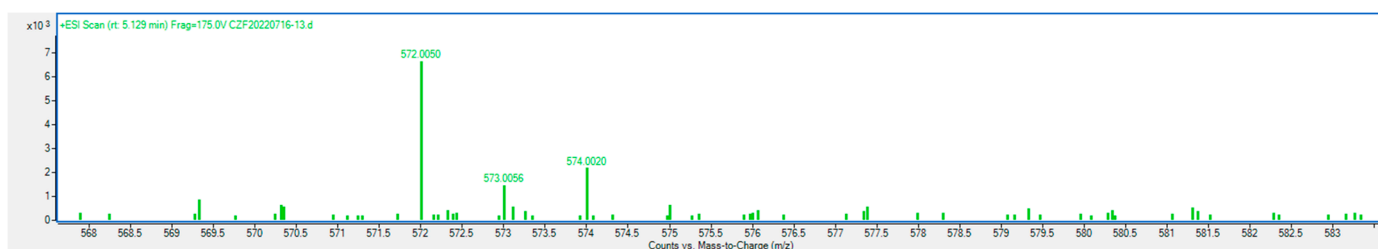
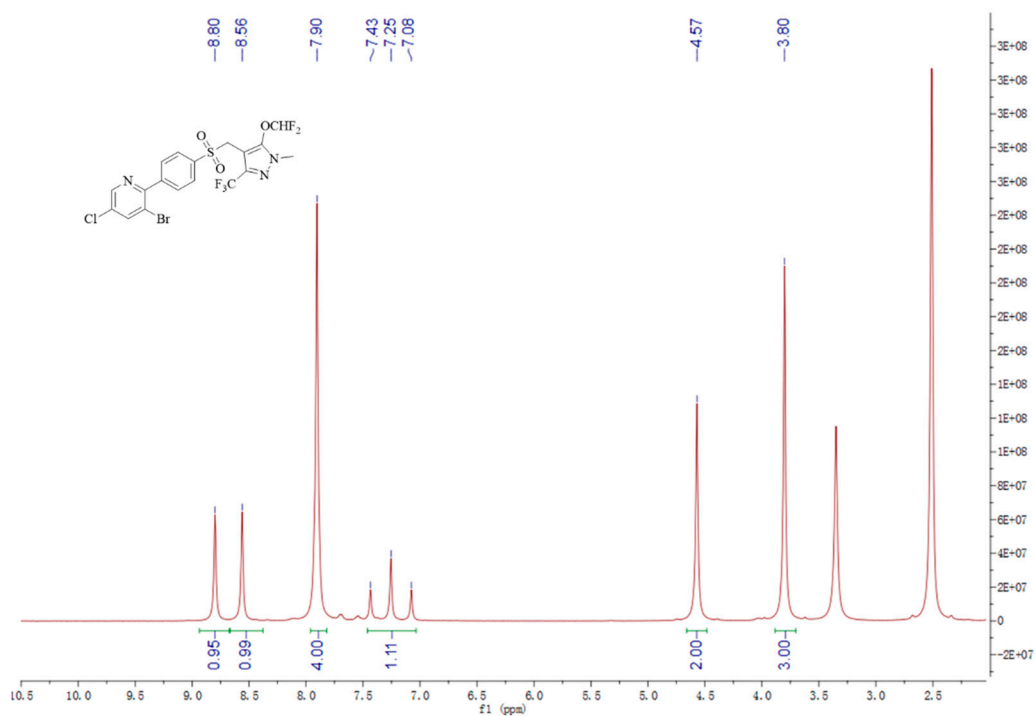
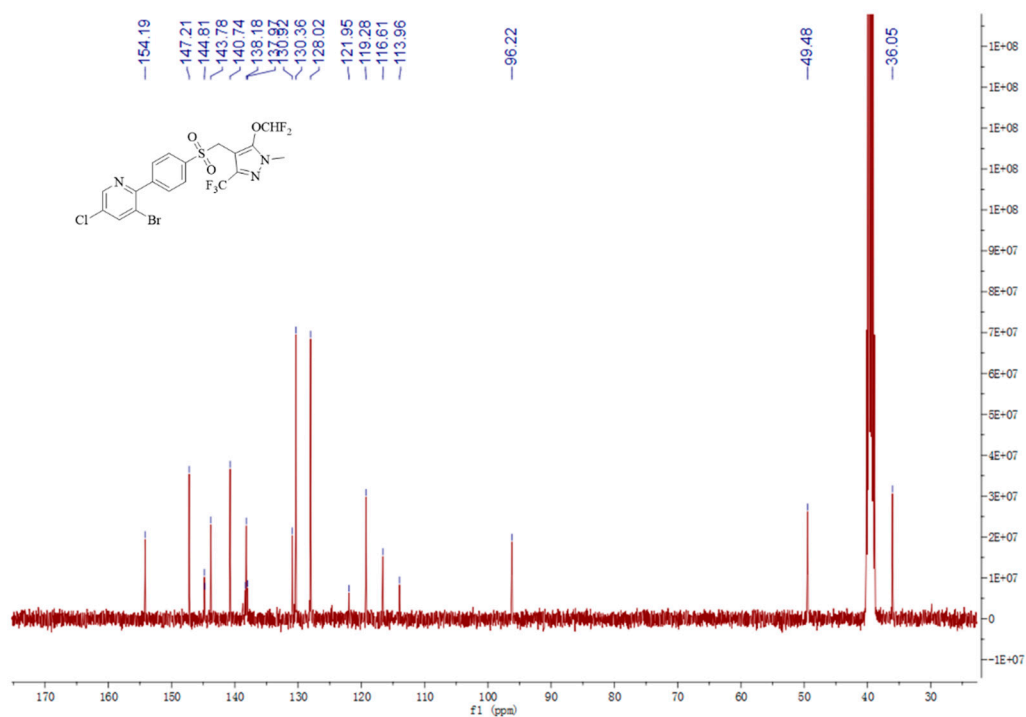
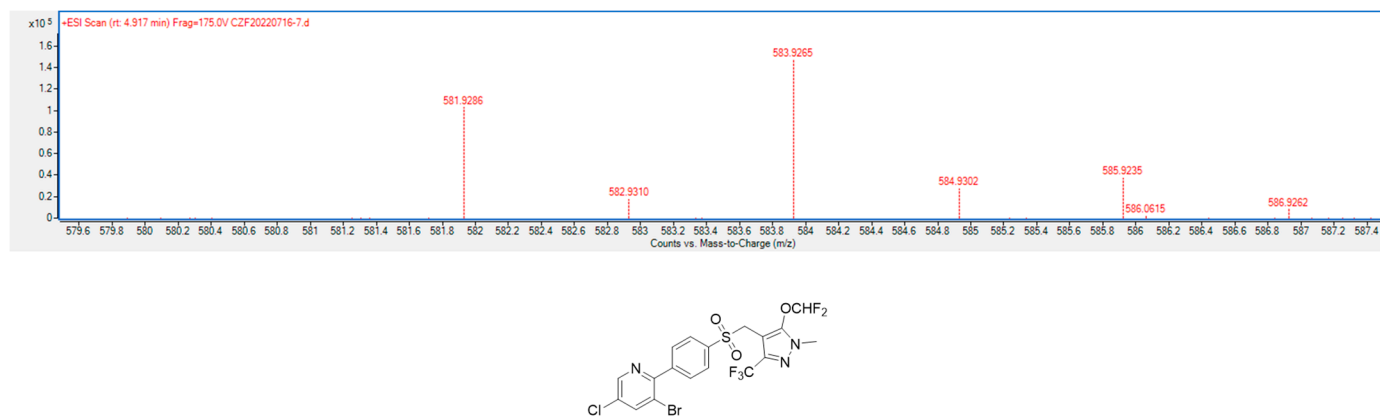
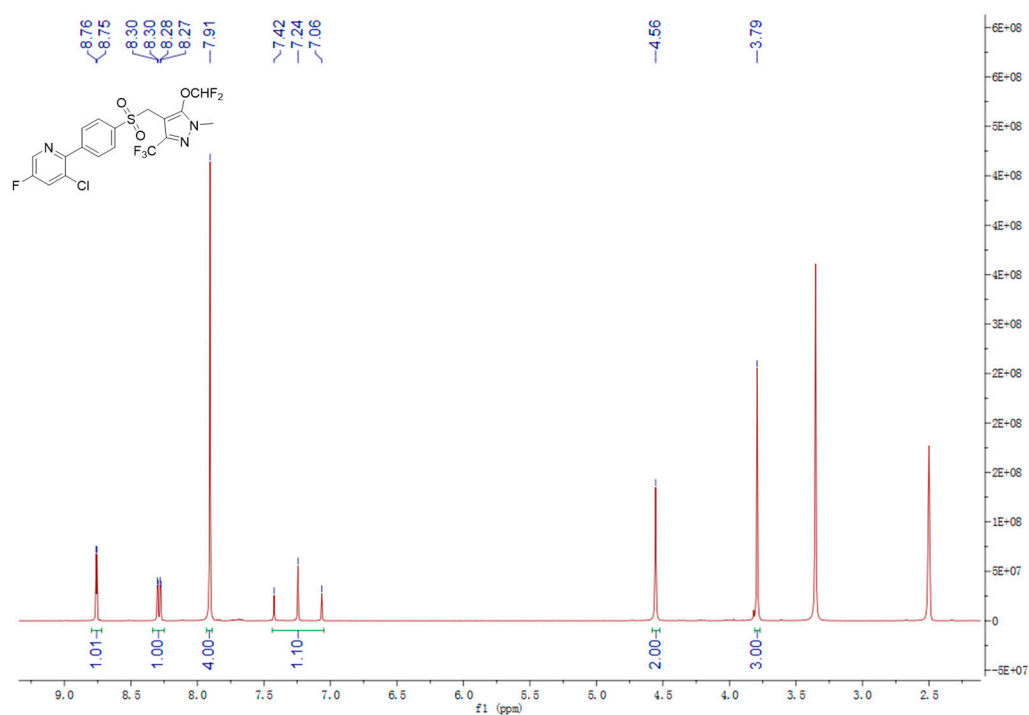
Figure S17. ¹³C NMR of compound 7a.

Figure S18. HRMS of compound 7a.

Figure S19. ¹H NMR of compound **7b**.Figure S20. ¹³C NMR of compound **7b**.

Figure S21. HRMS of compound **7b**.Figure S22. ¹H NMR of compound **7c**.

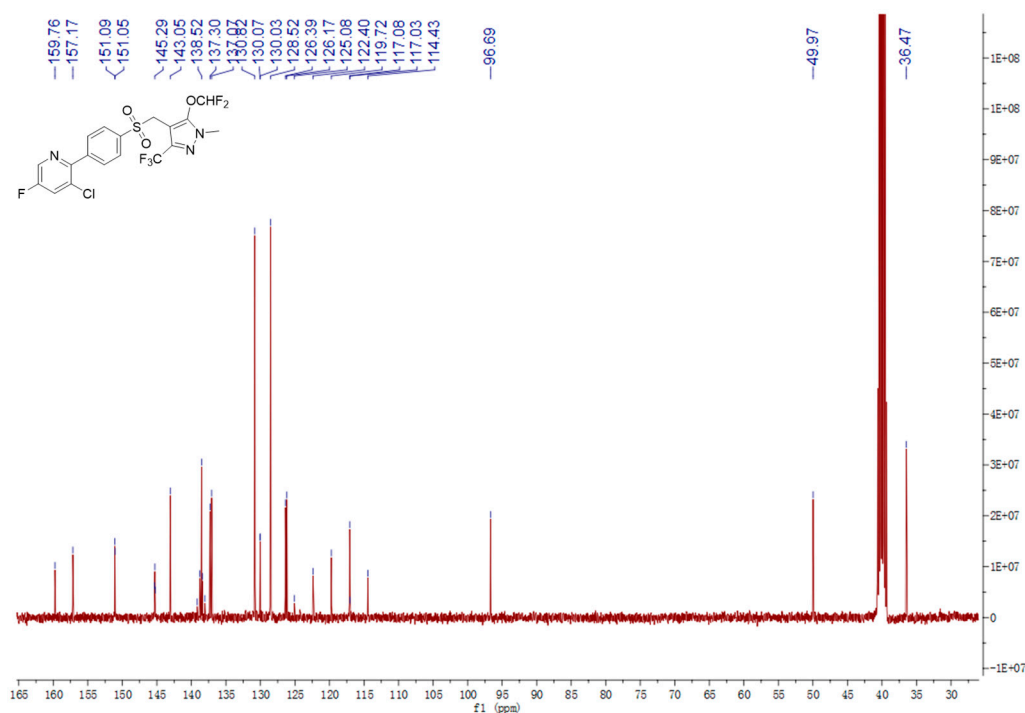
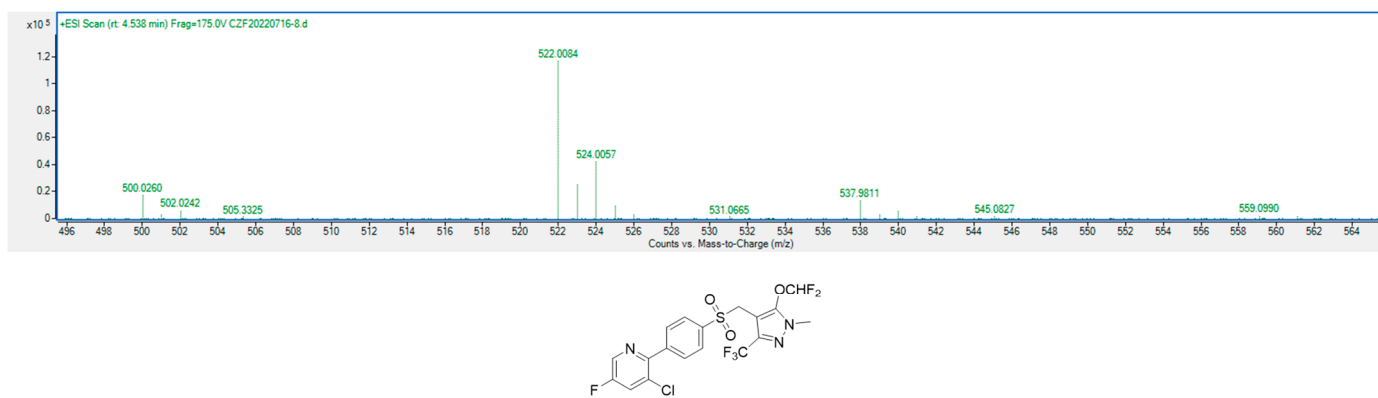
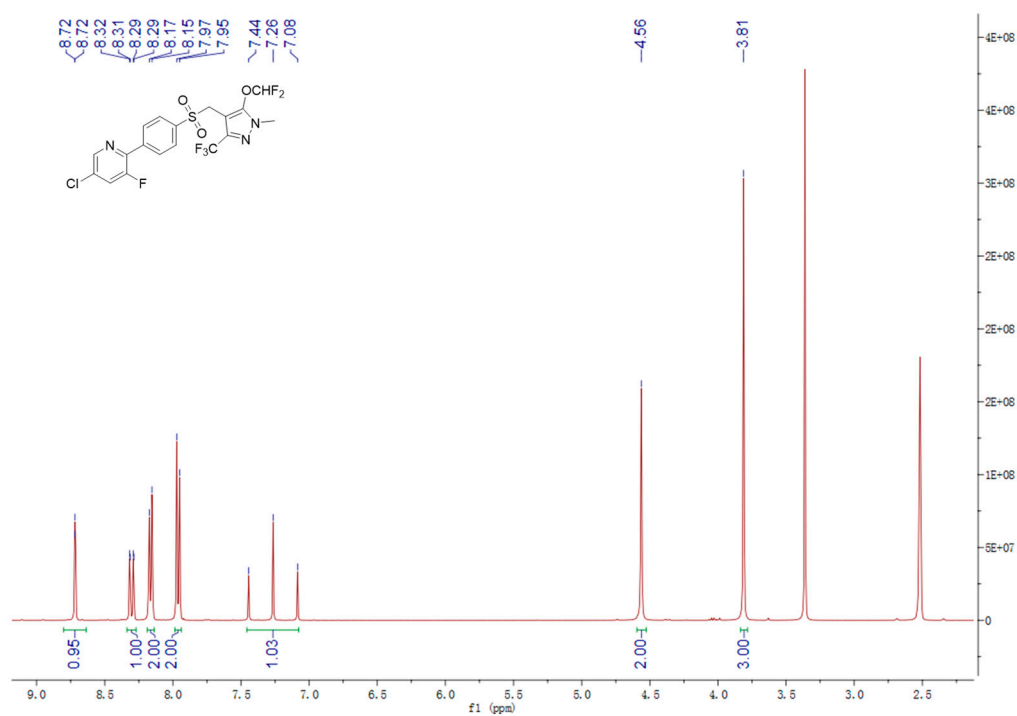
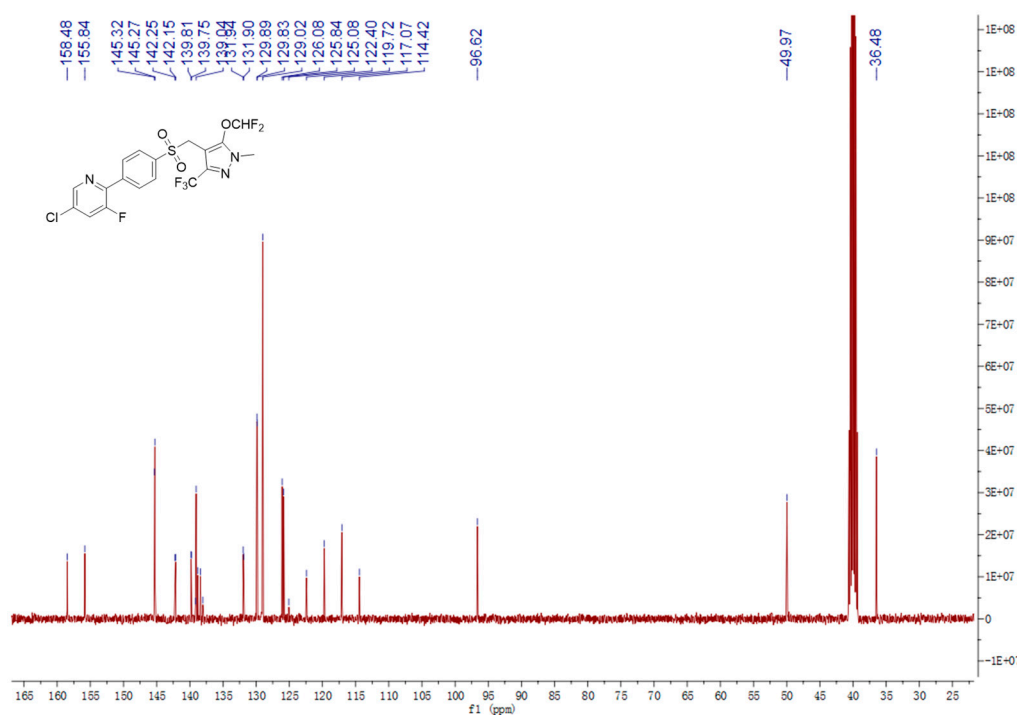
Figure S23. ¹³C NMR of compound 7c.

Figure S24. HRMS of compound 7c.

Figure S25. ¹H NMR of compound 7d.Figure S26. ¹³C NMR of compound 7d.

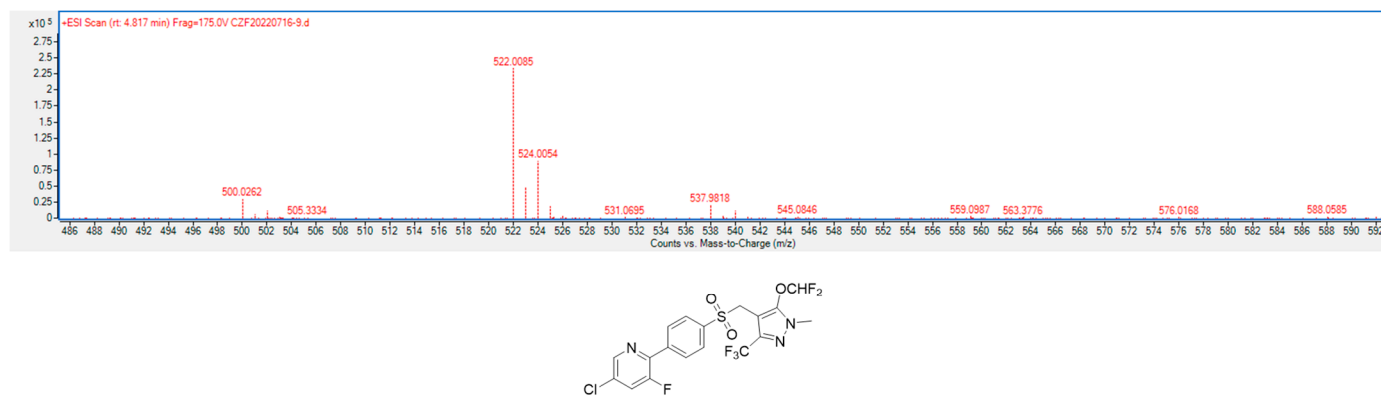
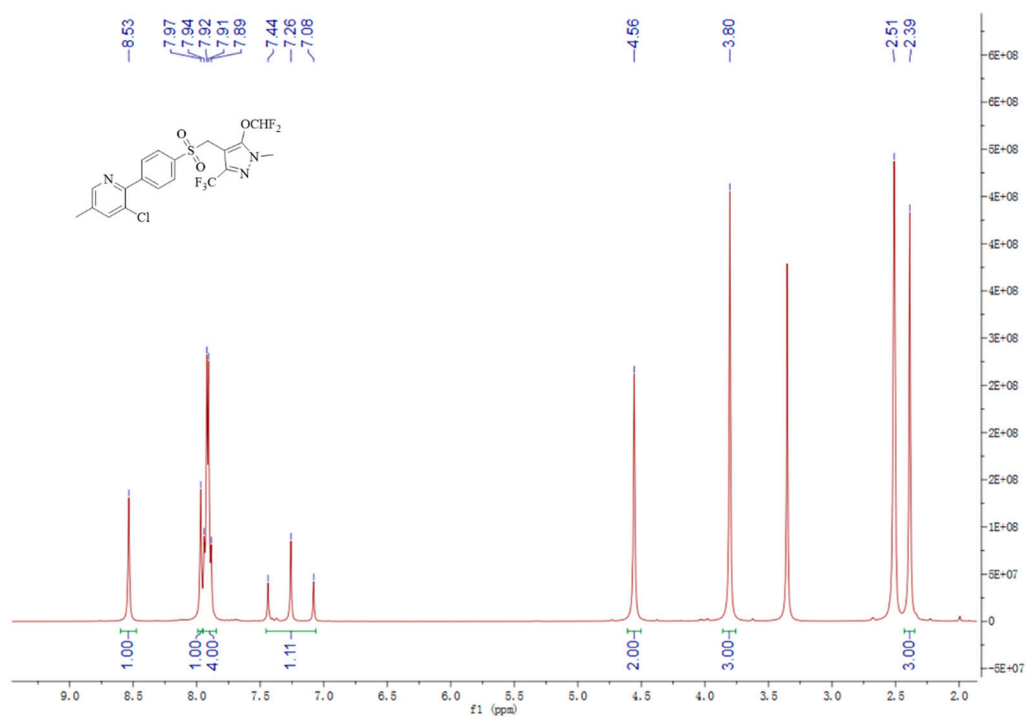


Figure S27. HRMS of compound 7d.

Figure S28. ^1H NMR of compound 7e.

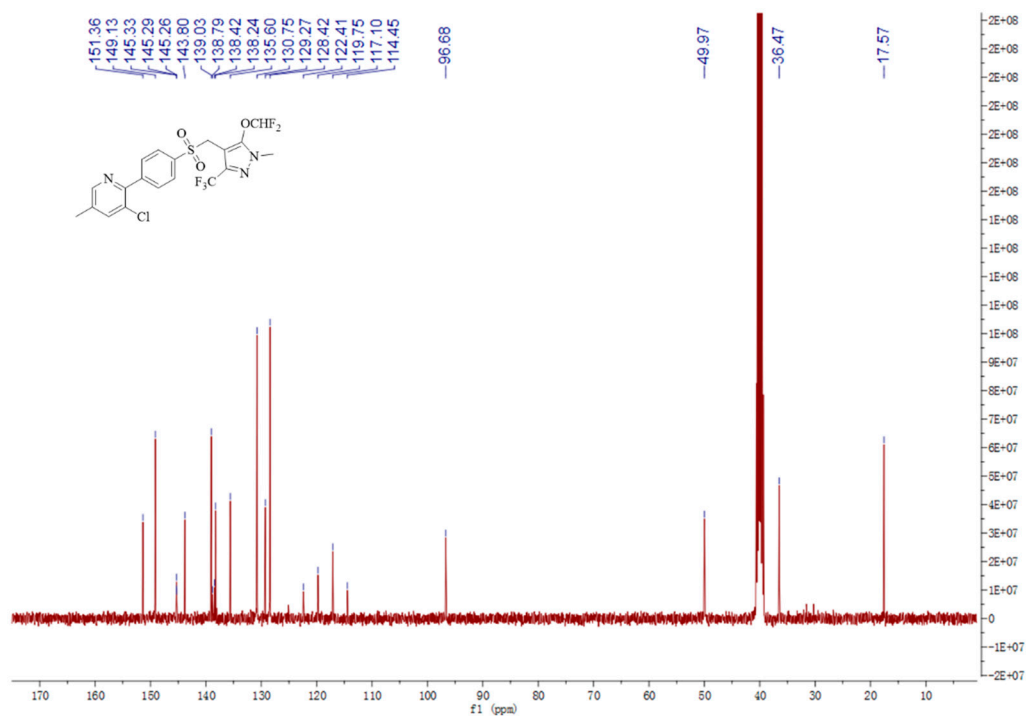
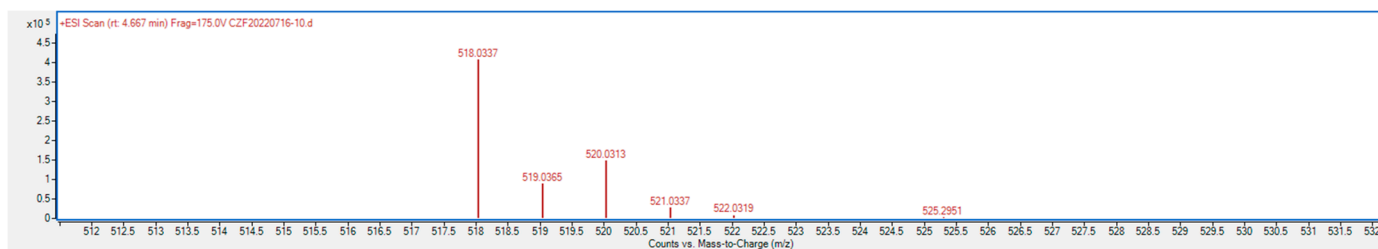
Figure S29. ¹³C NMR of compound 7e.

Figure S30. HRMS of compound 7e.