

Supplementary Materials

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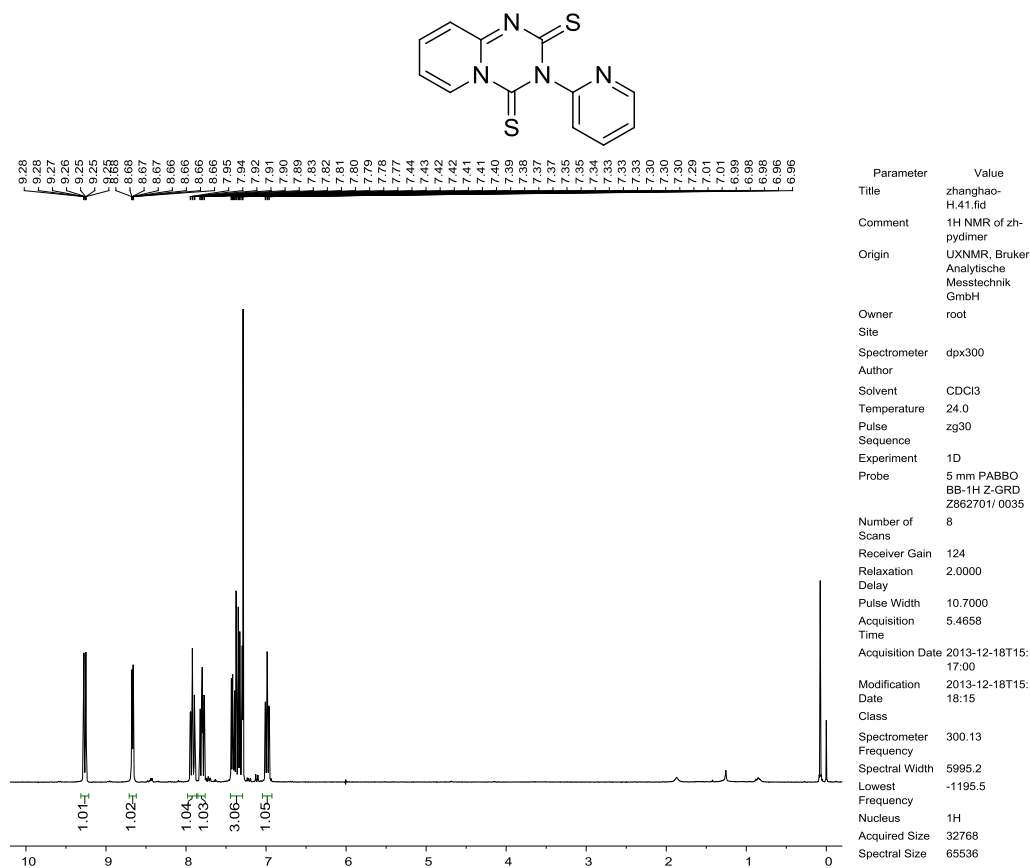
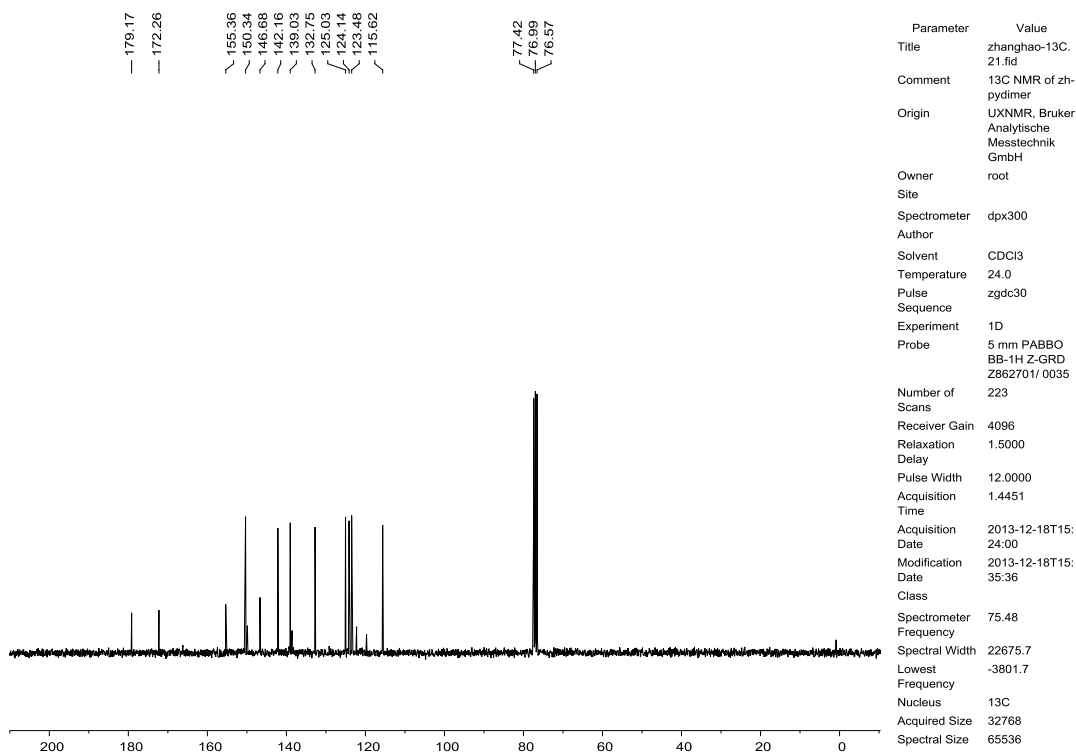
Figure S1. ¹H-NMR spectra of compound 4a.Figure S2. ¹³C-NMR spectra of compound 4a.

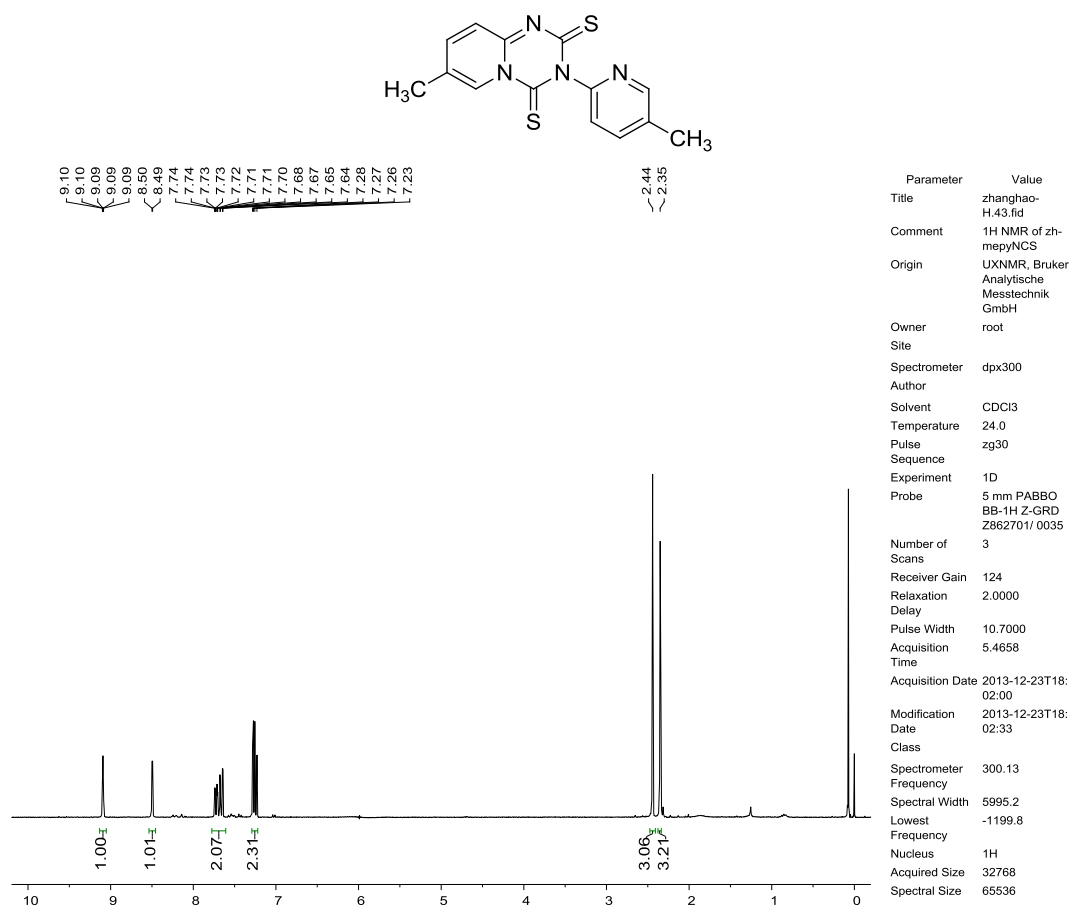
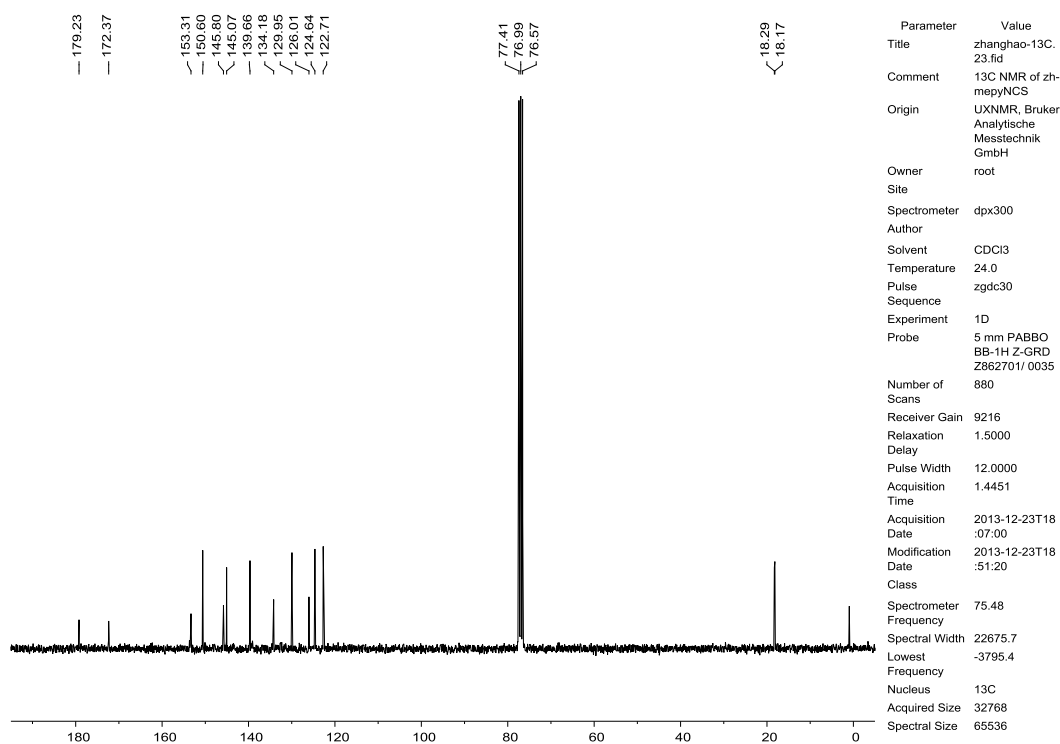
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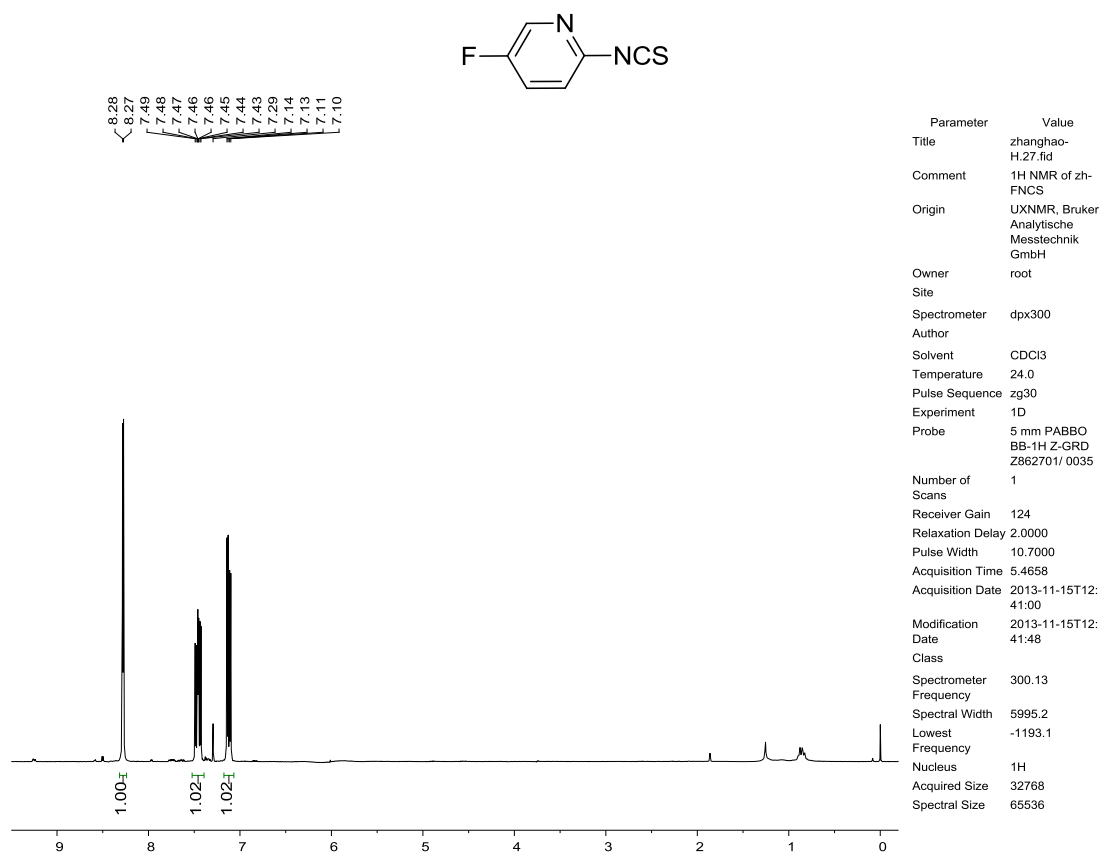
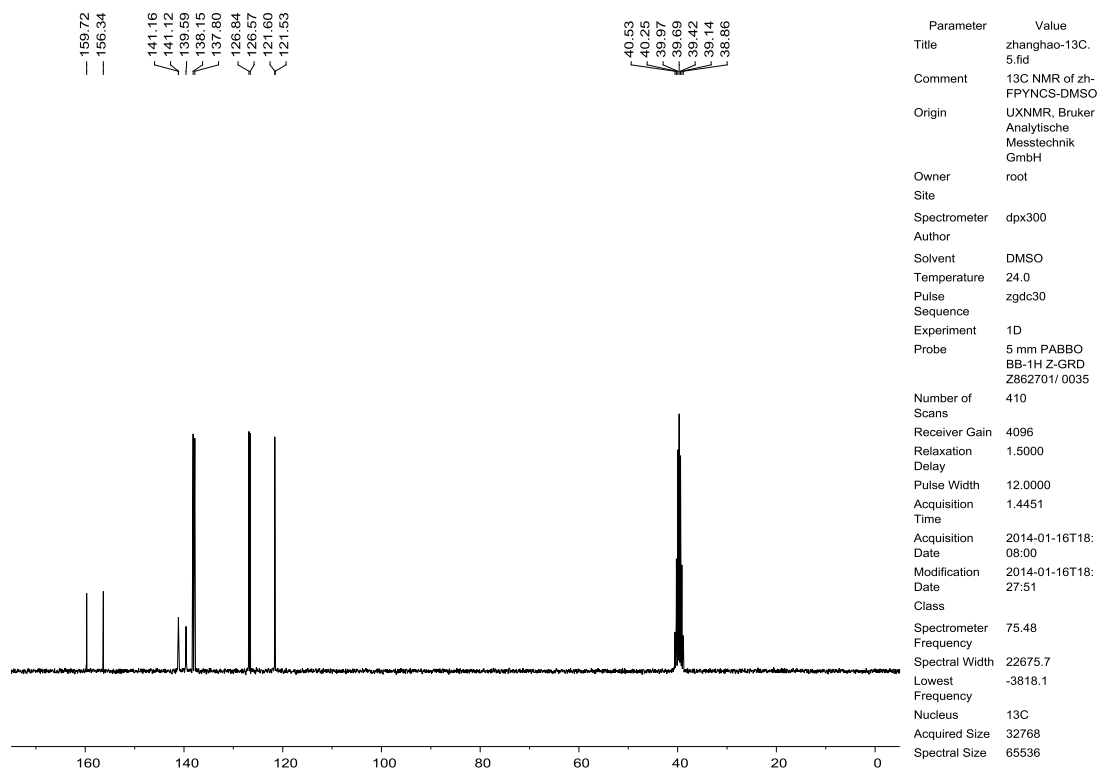
Figure S5. ^1H -NMR spectra of compound **4c**.Figure S6. ^{13}C -NMR spectra of compound **4c**.

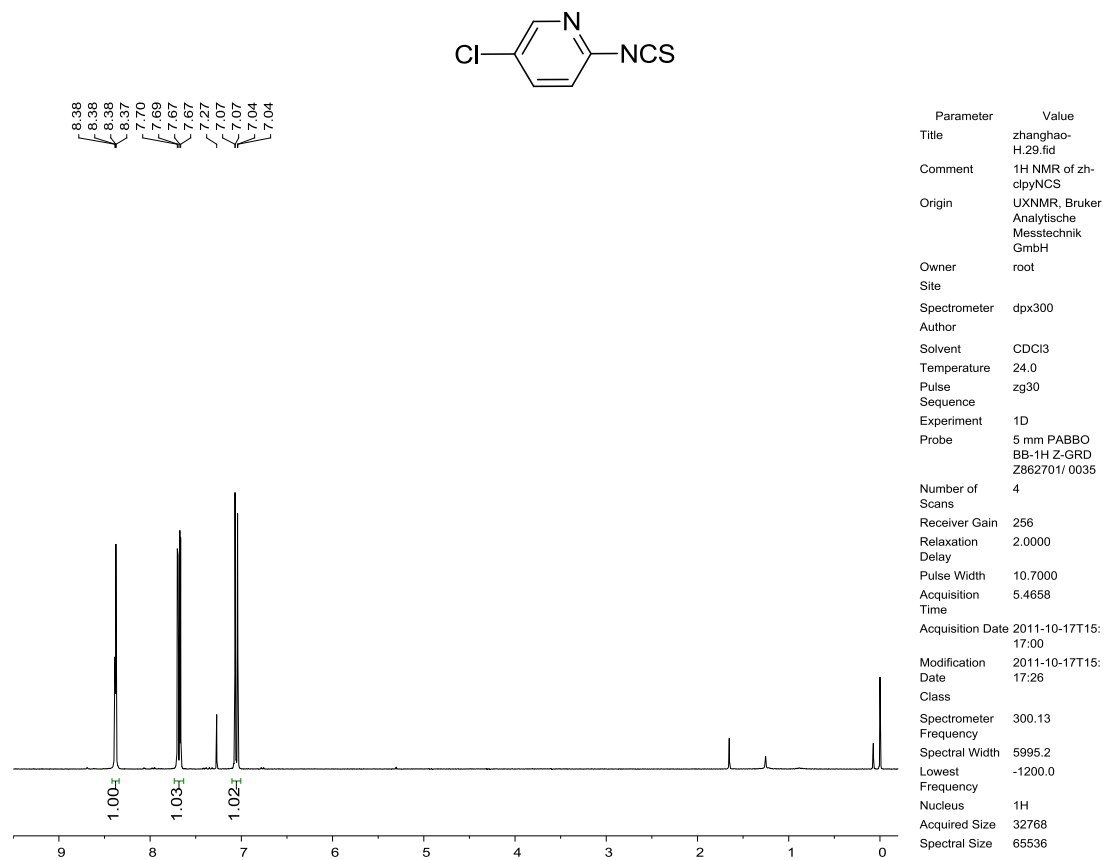
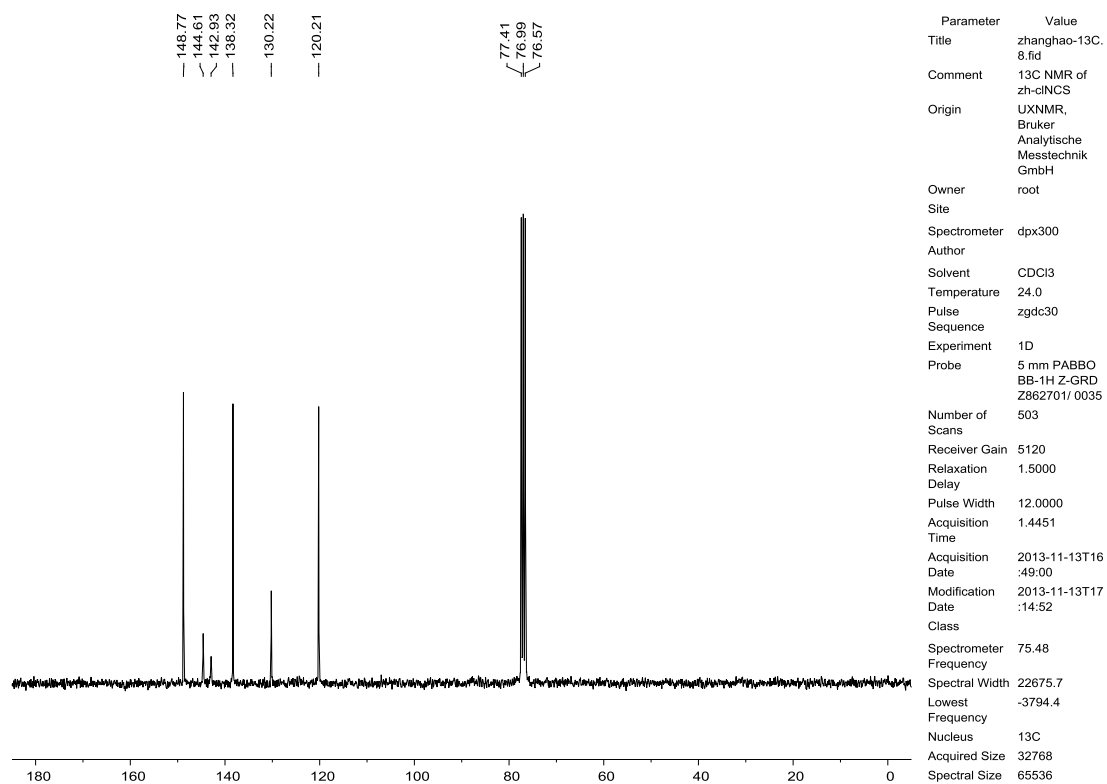
Figure S7. ^1H -NMR spectra of compound **4d**.Figure S8. ^{13}C -NMR spectra of compound **4d**.

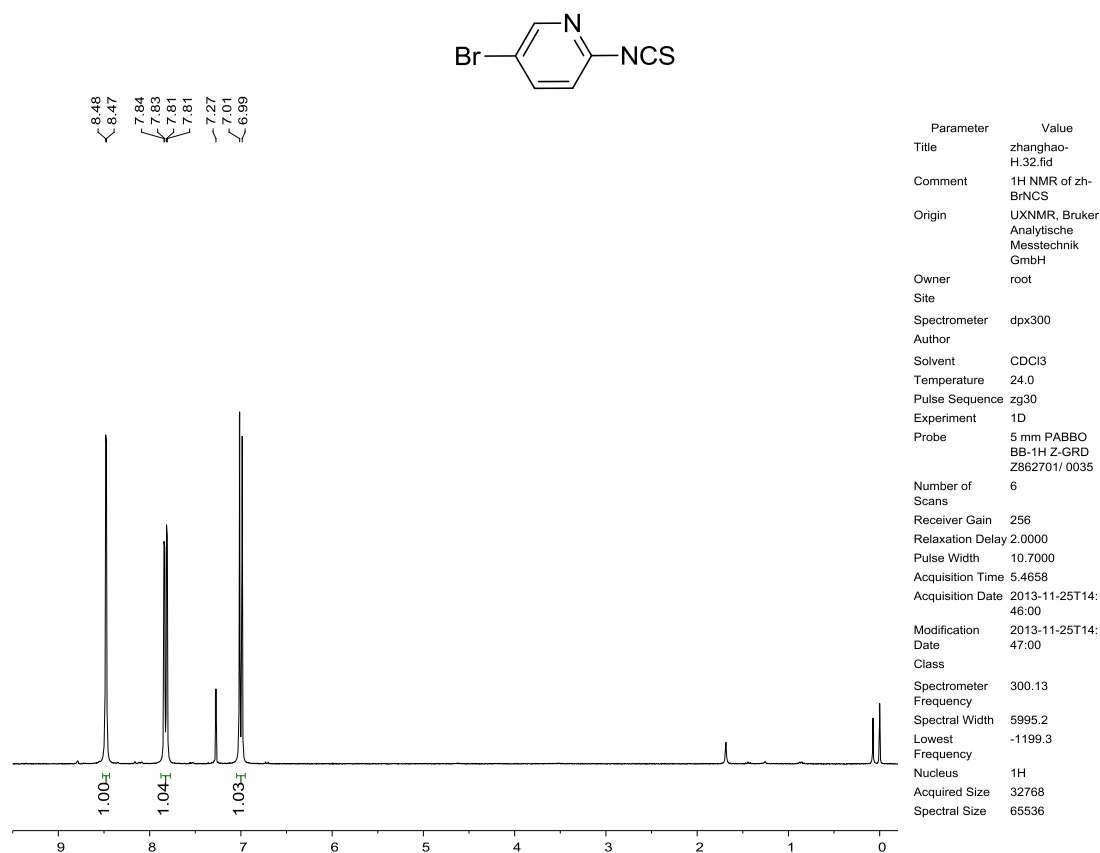
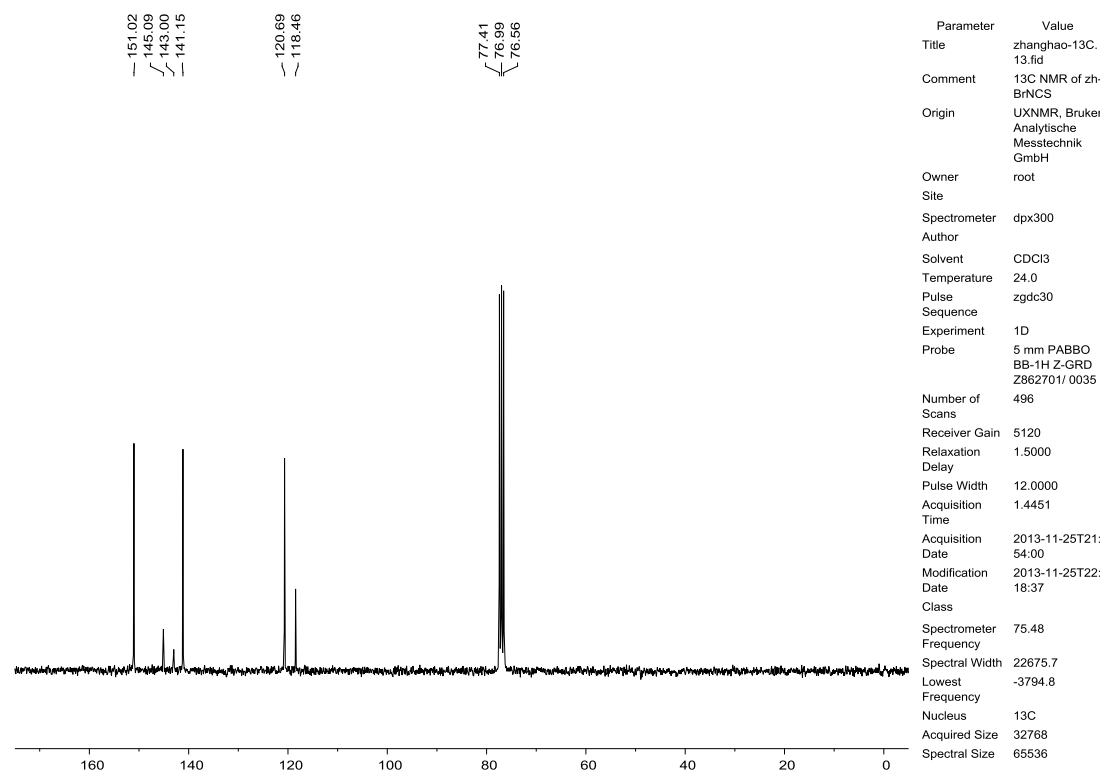
Figure S9. ¹H-NMR spectra of compound 4e.Figure S10. ¹³C-NMR spectra of compound 4e.

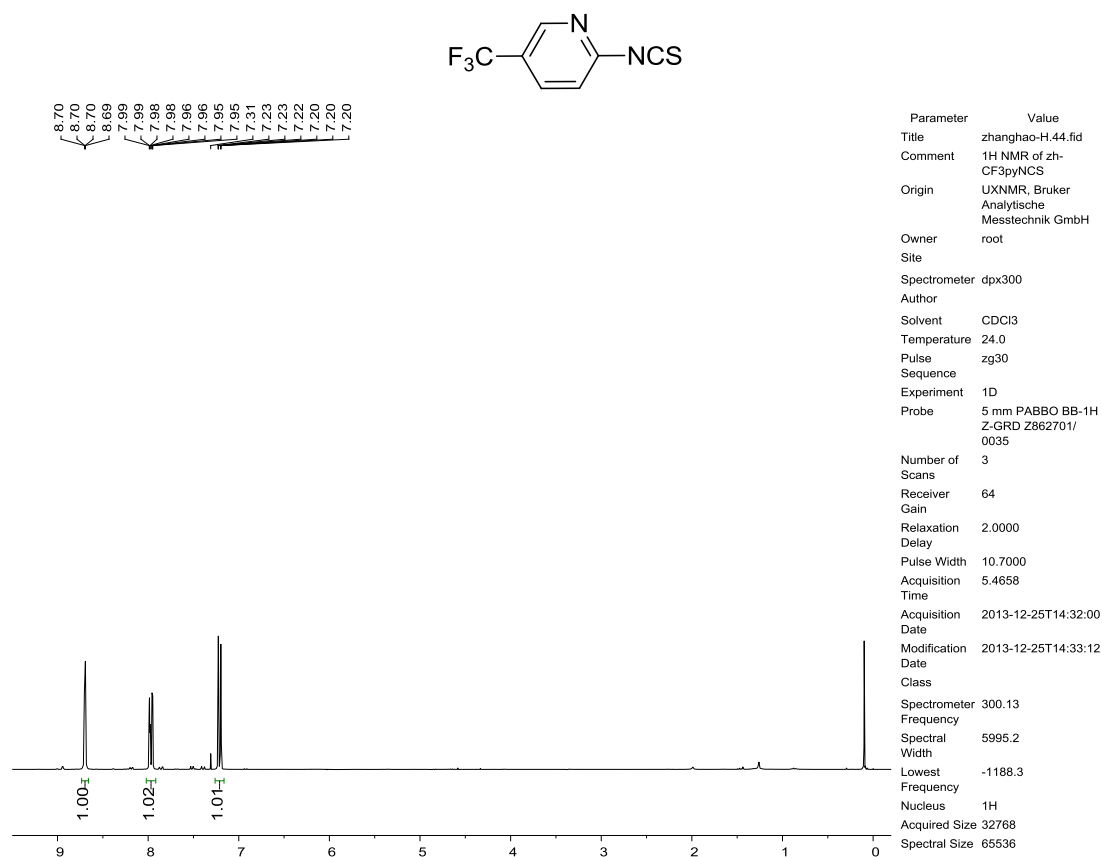
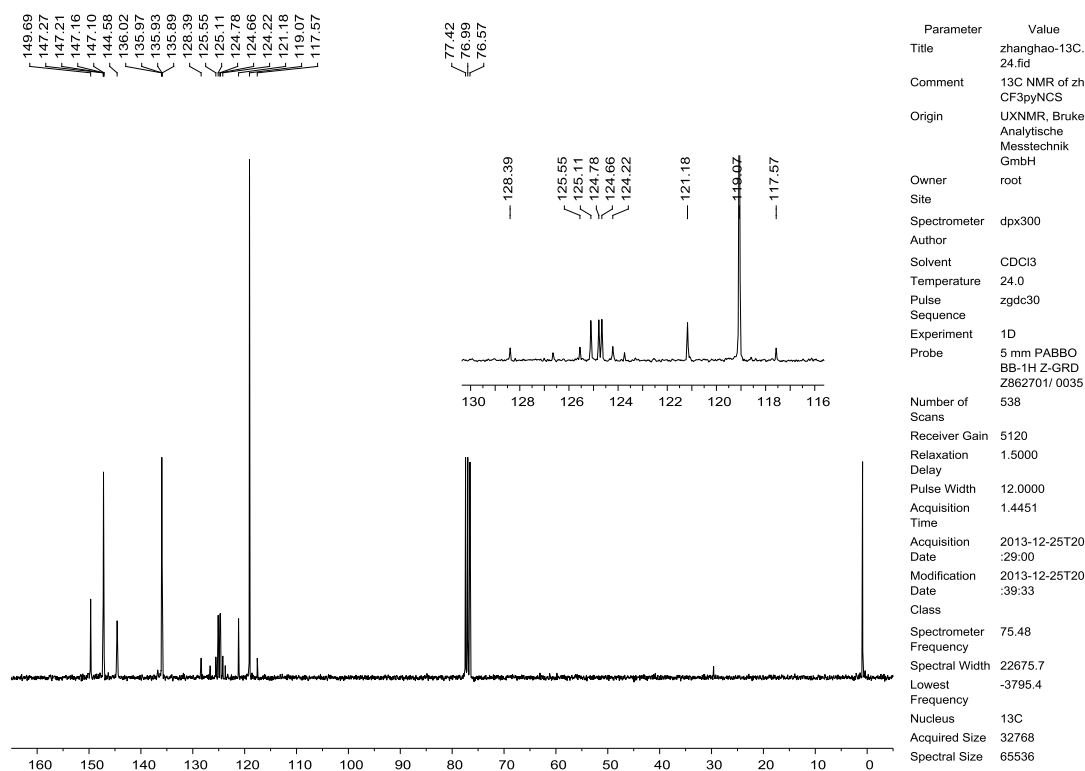
Figure S11. ^1H -NMR spectra of compound 4f.Figure S12. ^{13}C -NMR spectra of compound 4f.

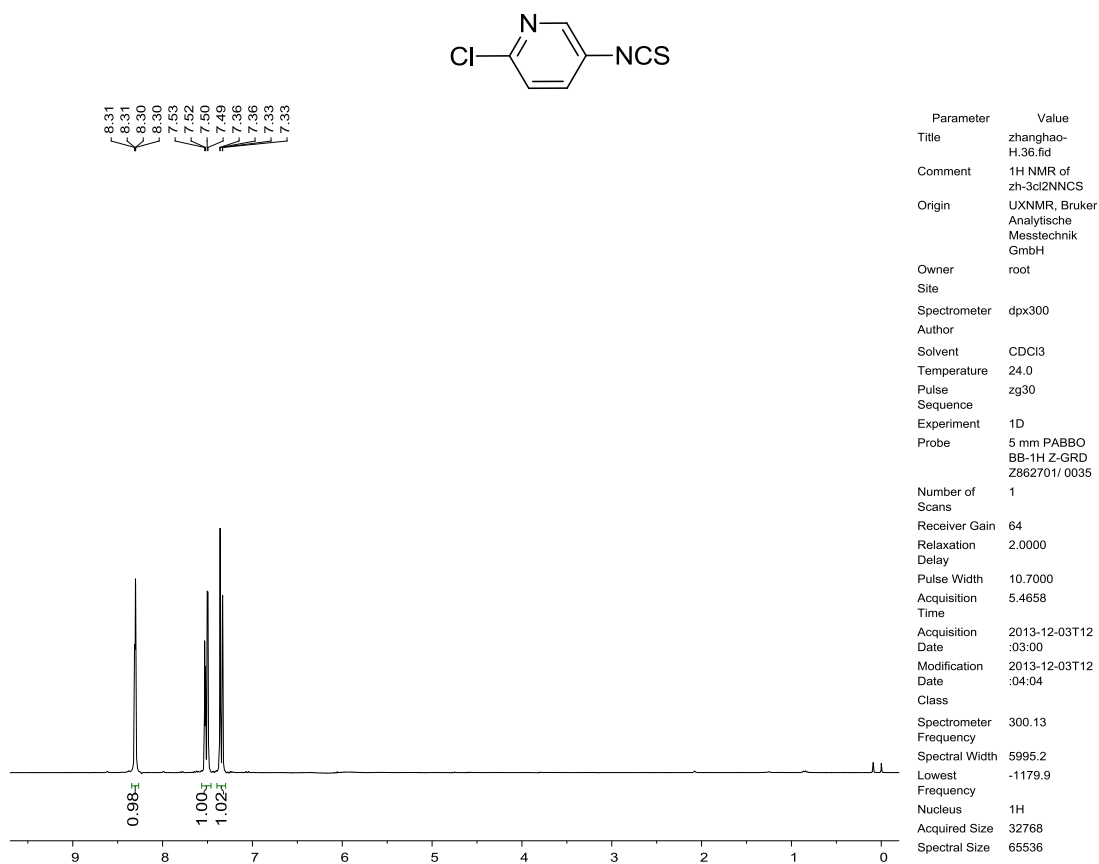
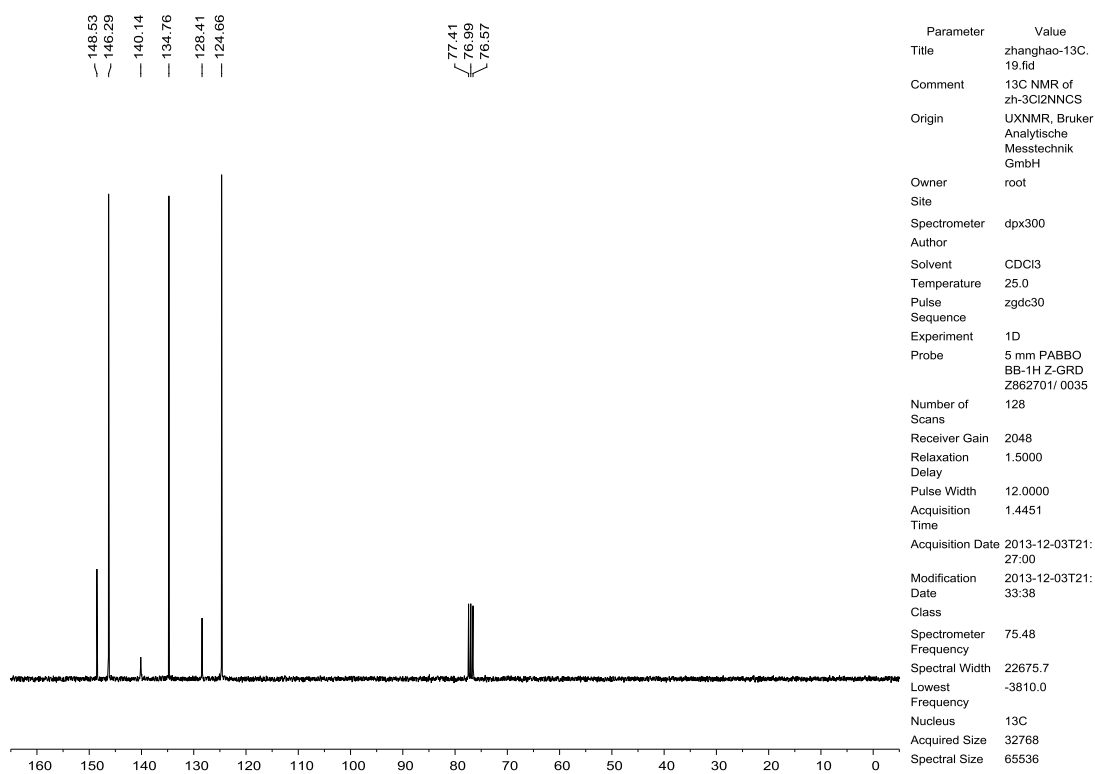
Figure S13. ^1H -NMR spectra of compound **4g**.Figure S14. ^{13}C -NMR spectra of compound **4g**.

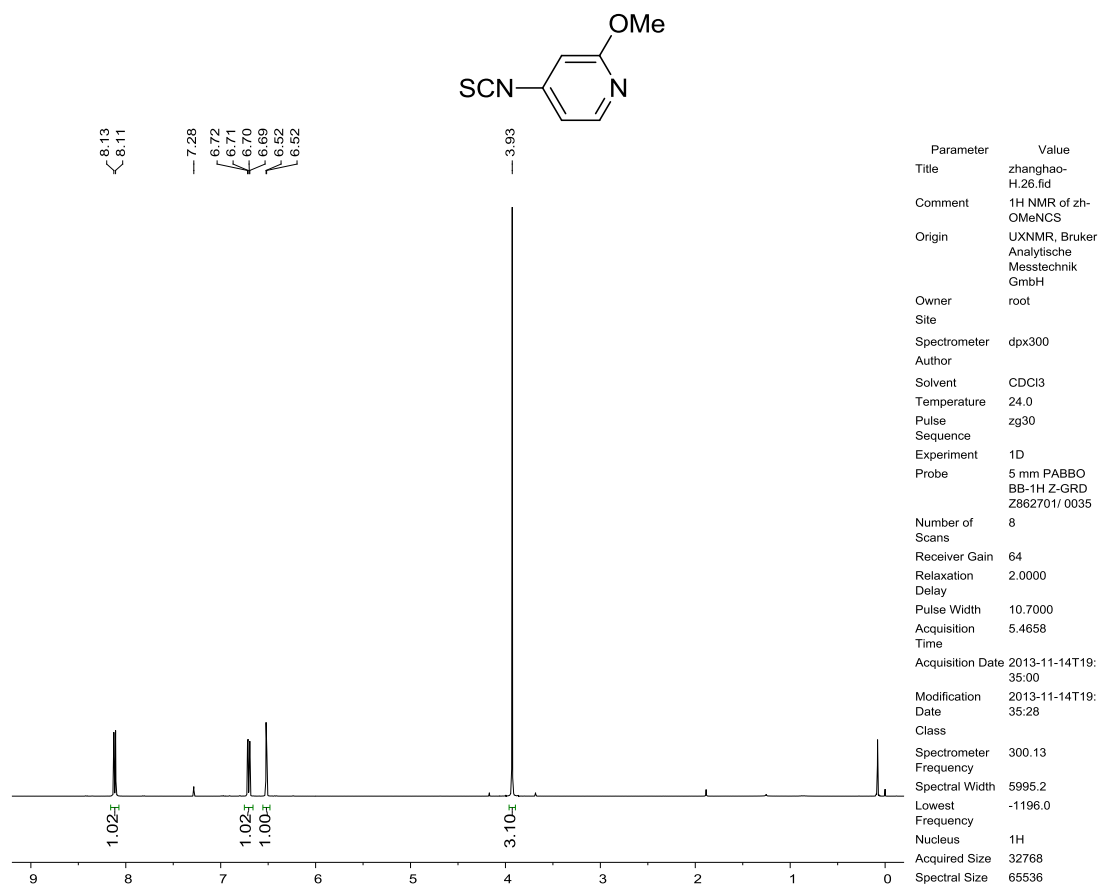
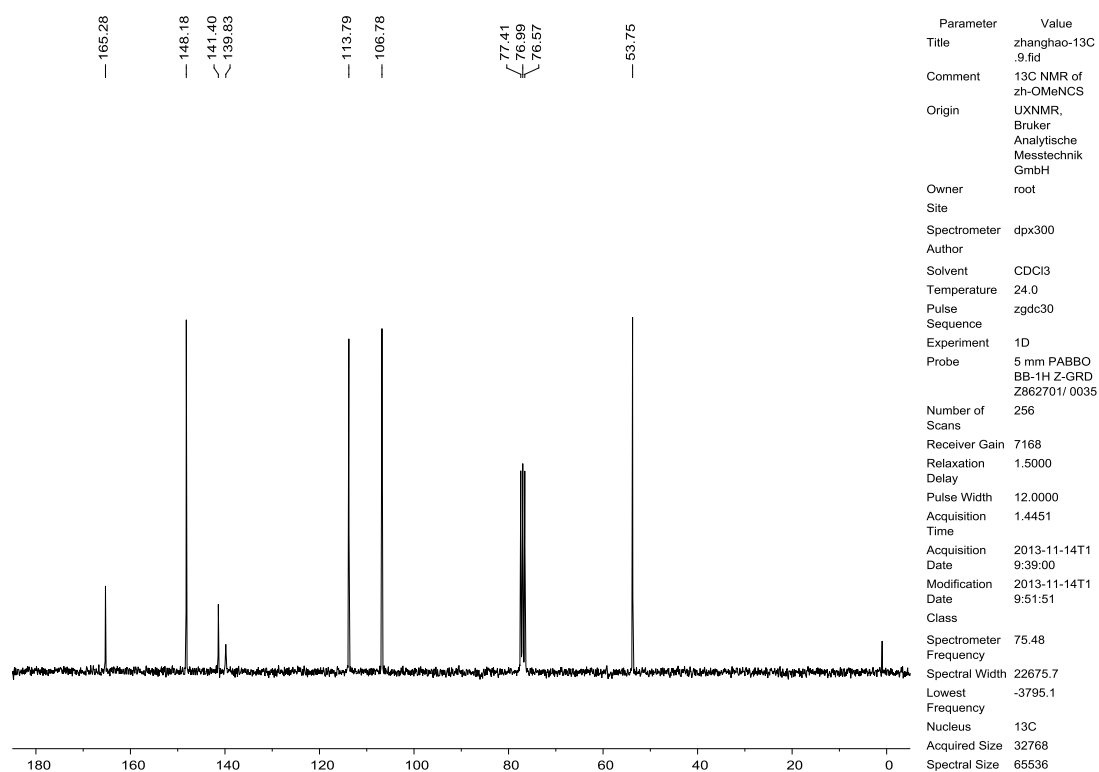
Figure S15. ^1H -NMR spectra of compound **4h**.Figure S16. ^{13}C -NMR spectra of compound **4h**.

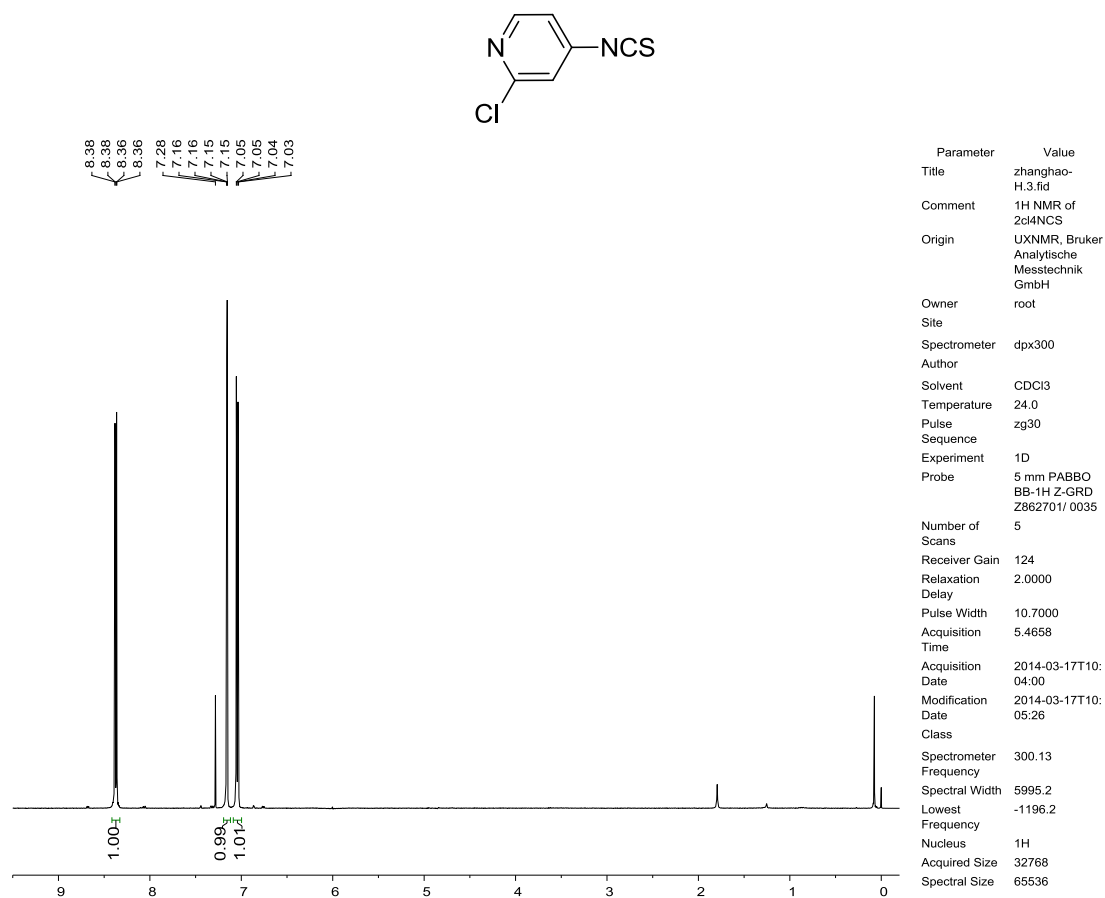
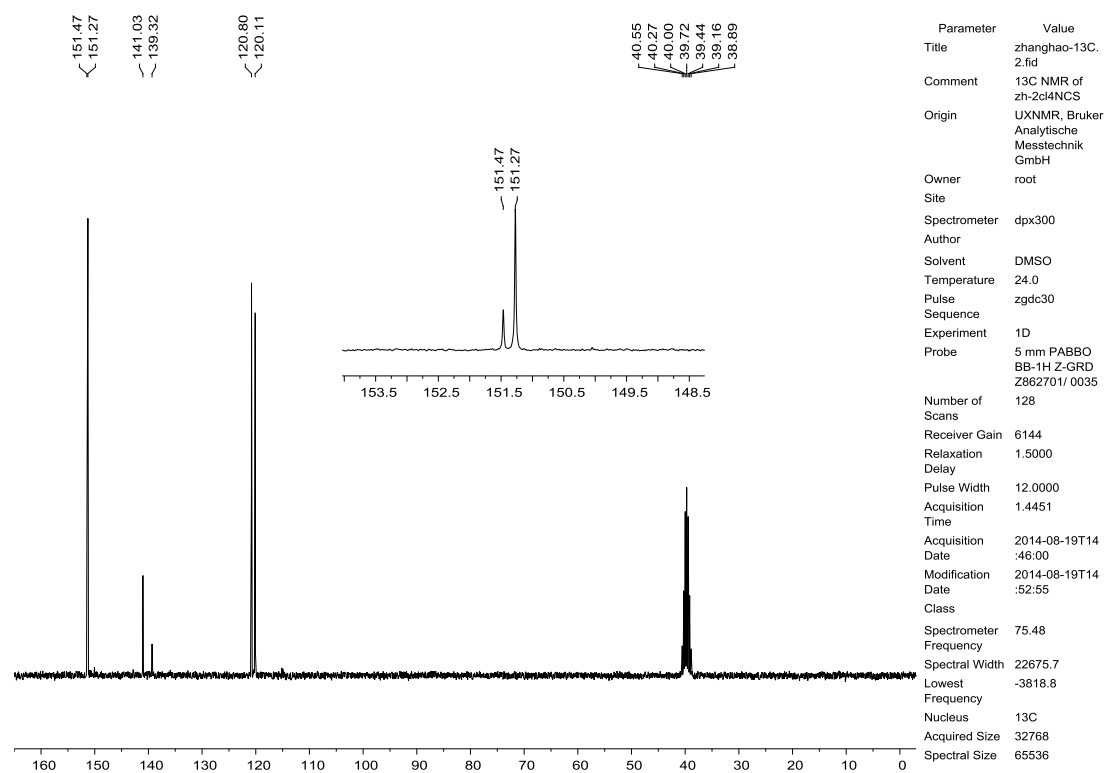
Figure S17. ^1H -NMR spectra of compound **4i**.Figure S18. ^{13}C -NMR spectra of compound **4i**.

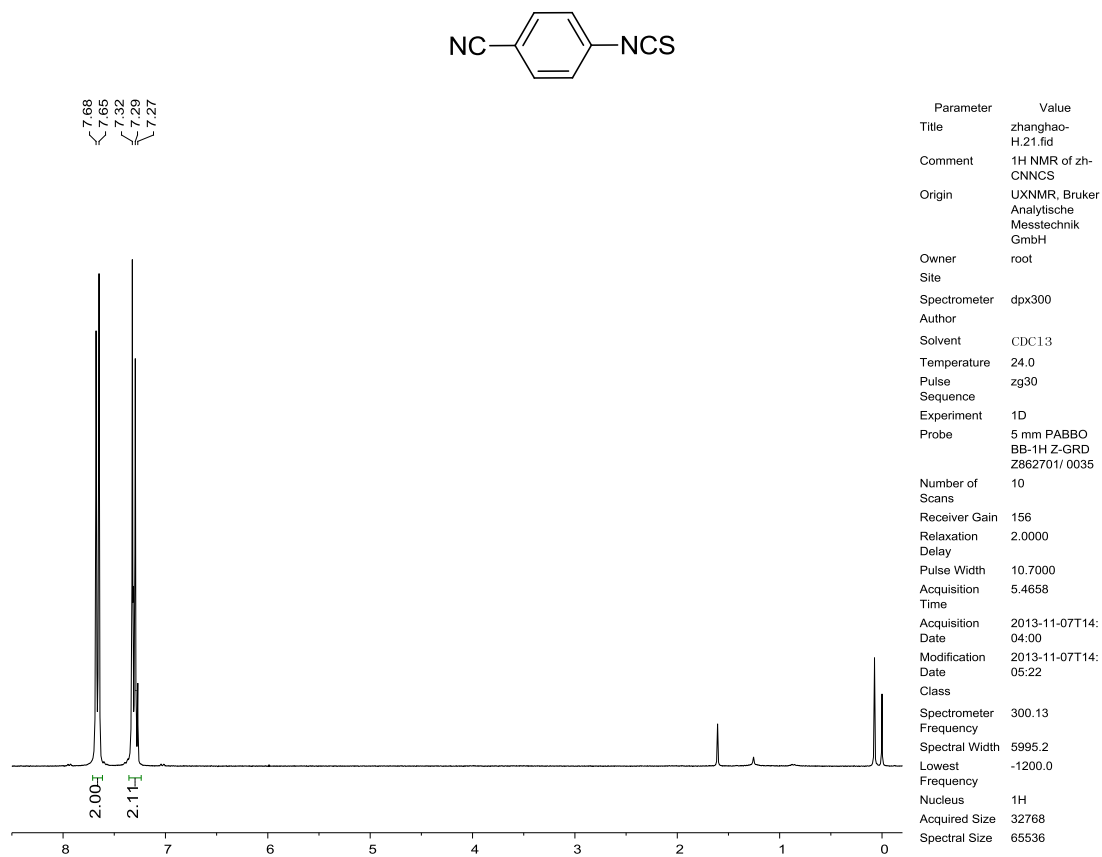
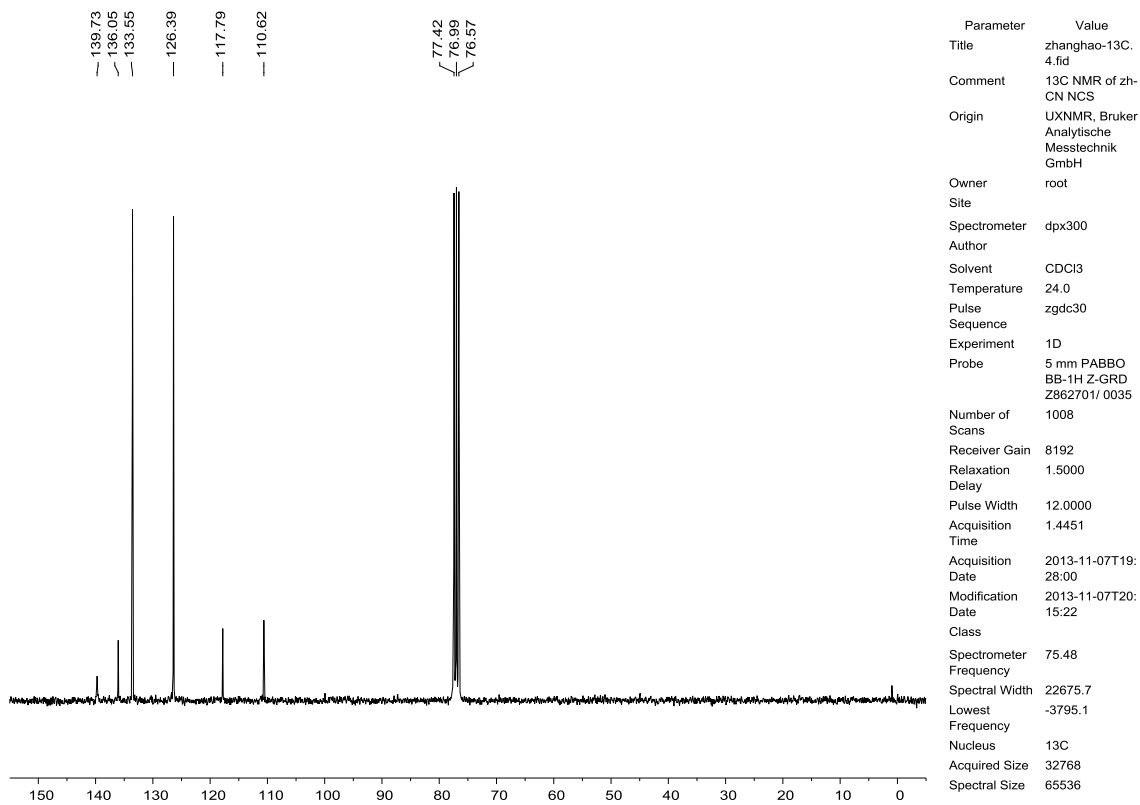
Figure S19. ¹H-NMR spectra of compound 4j.Figure S20. ¹³C-NMR spectra of compound 4j.

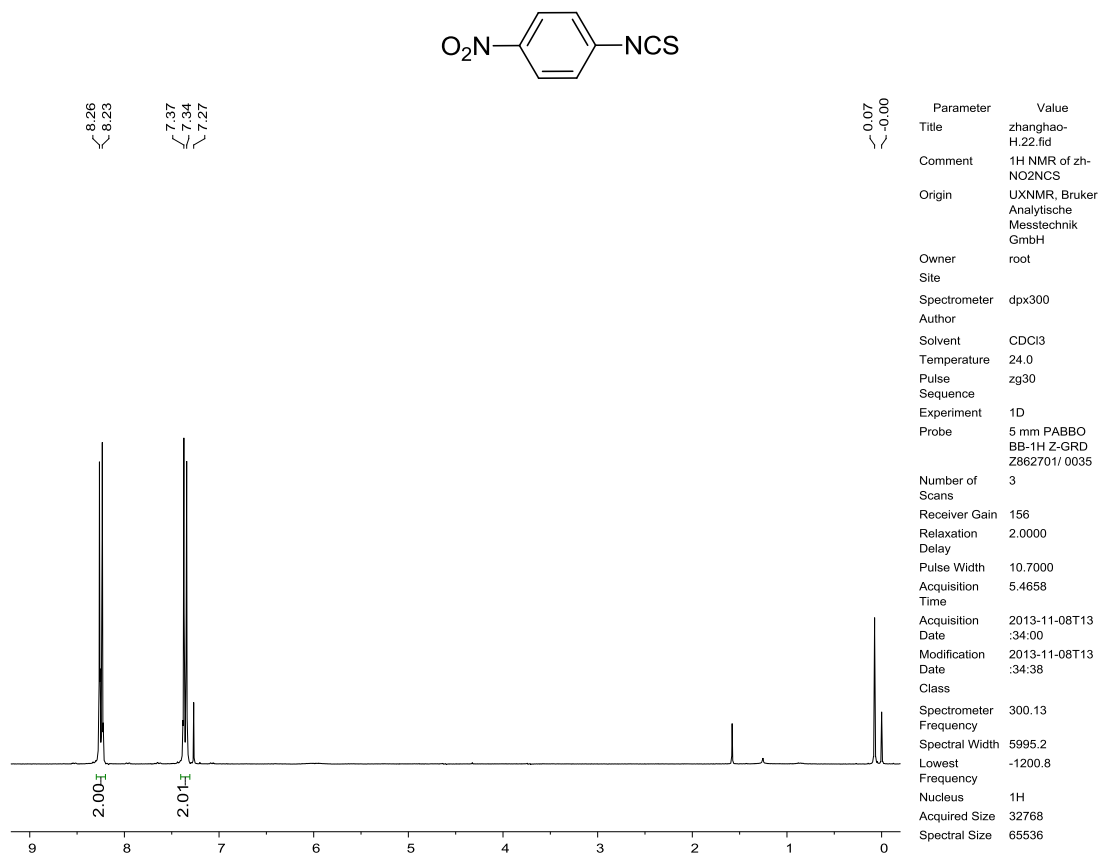
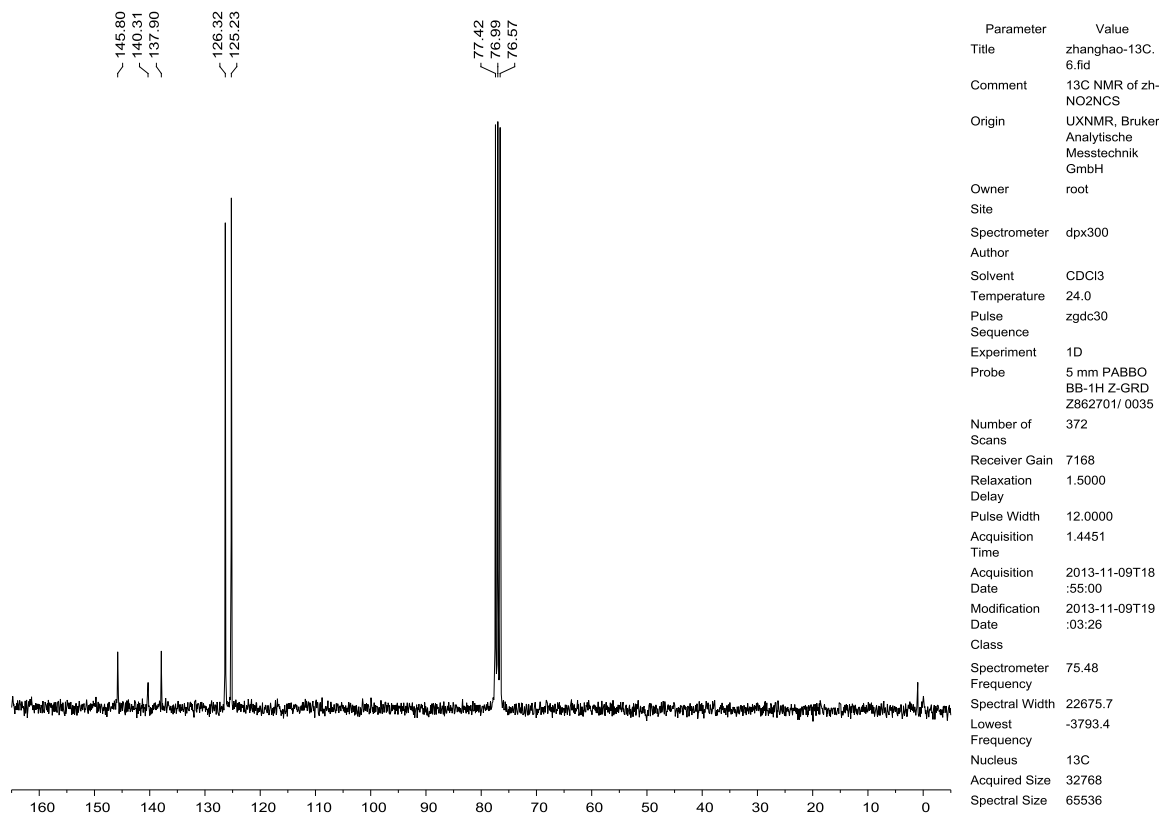
Figure S21. ^1H -NMR spectra of compound 4k.Figure S22. ^{13}C -NMR spectra of compound 4k.

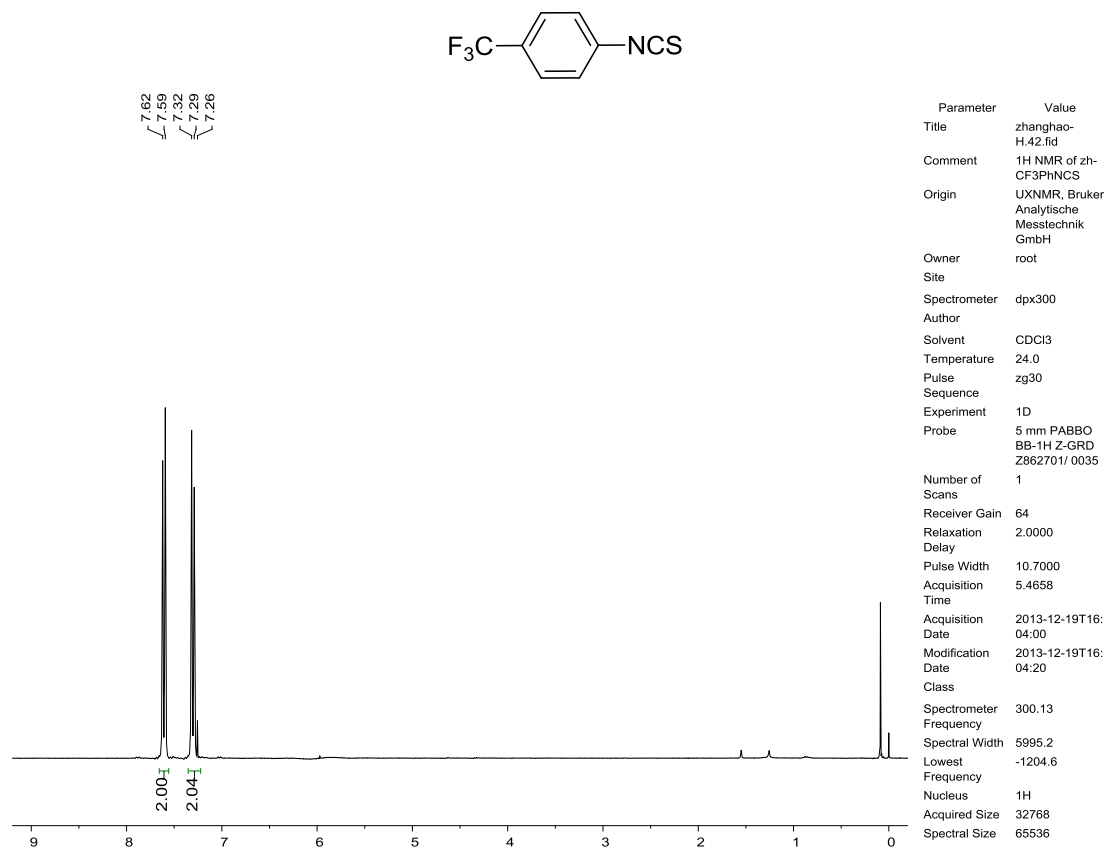
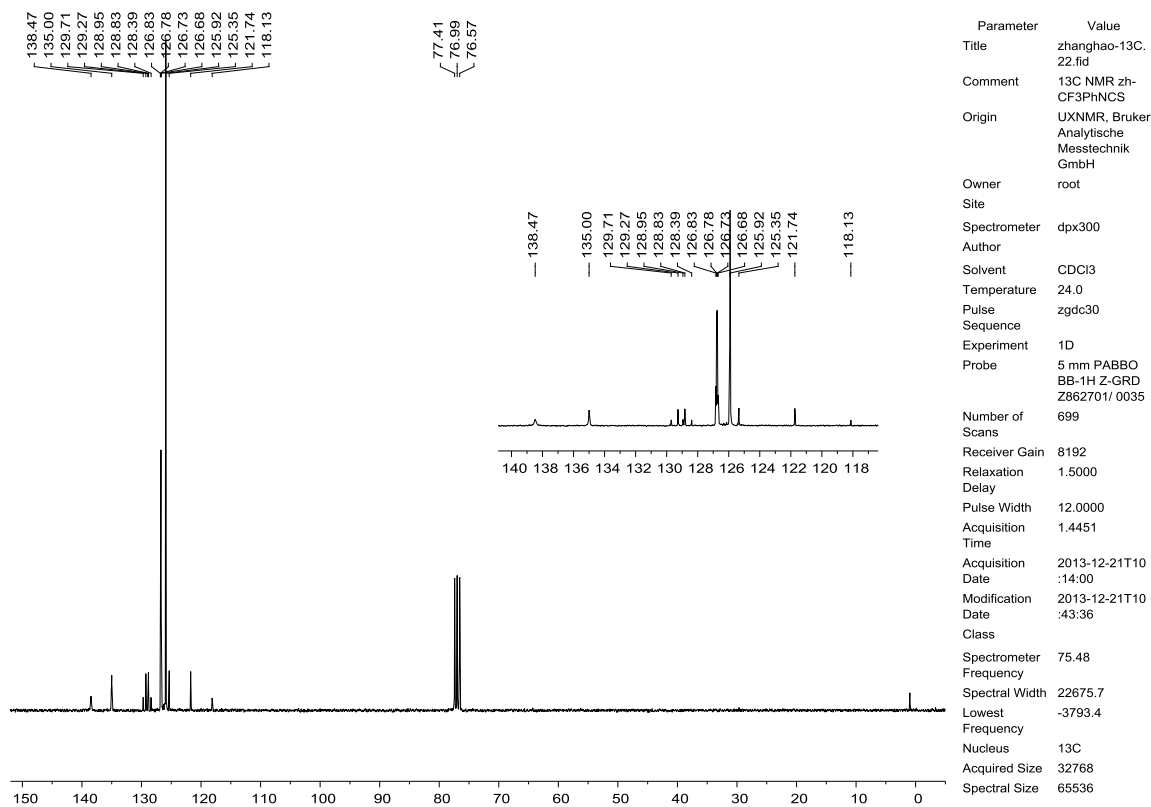
Figure S23. ^1H -NMR spectra of compound 4I.Figure S24. ^{13}C -NMR spectra of compound 4I.

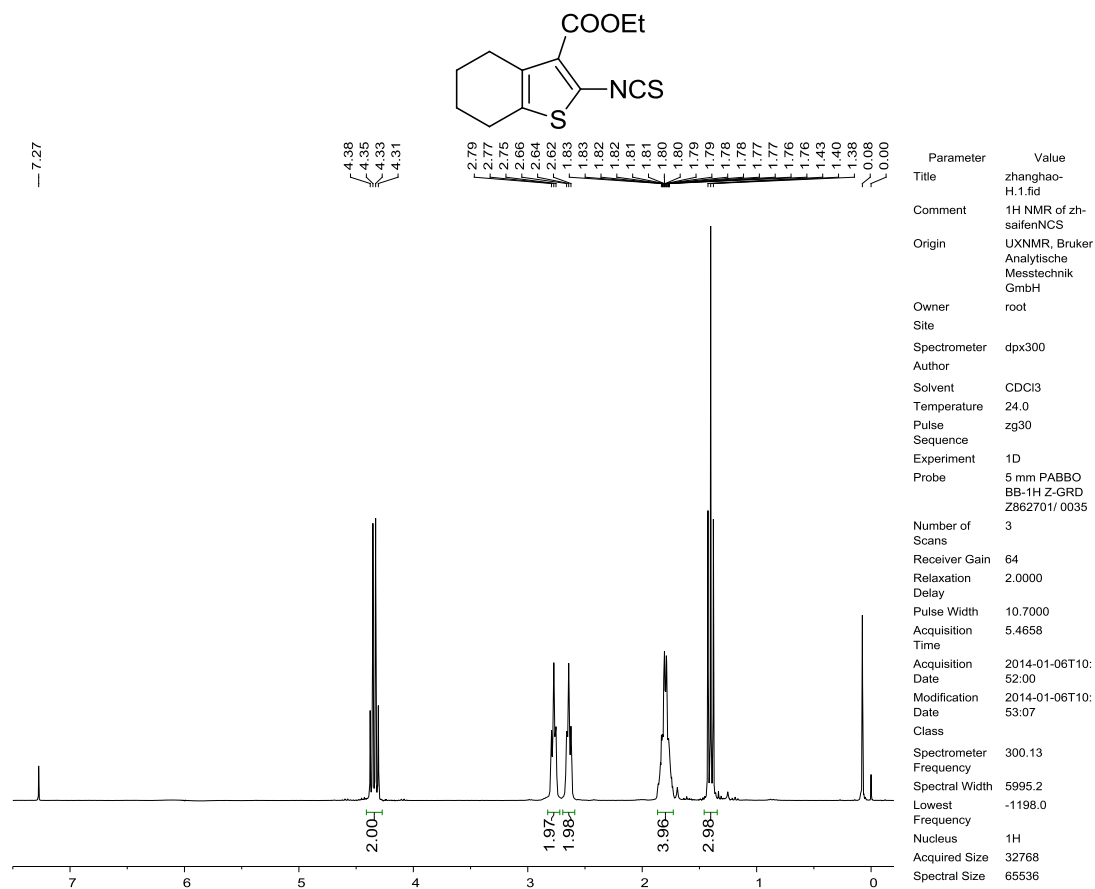
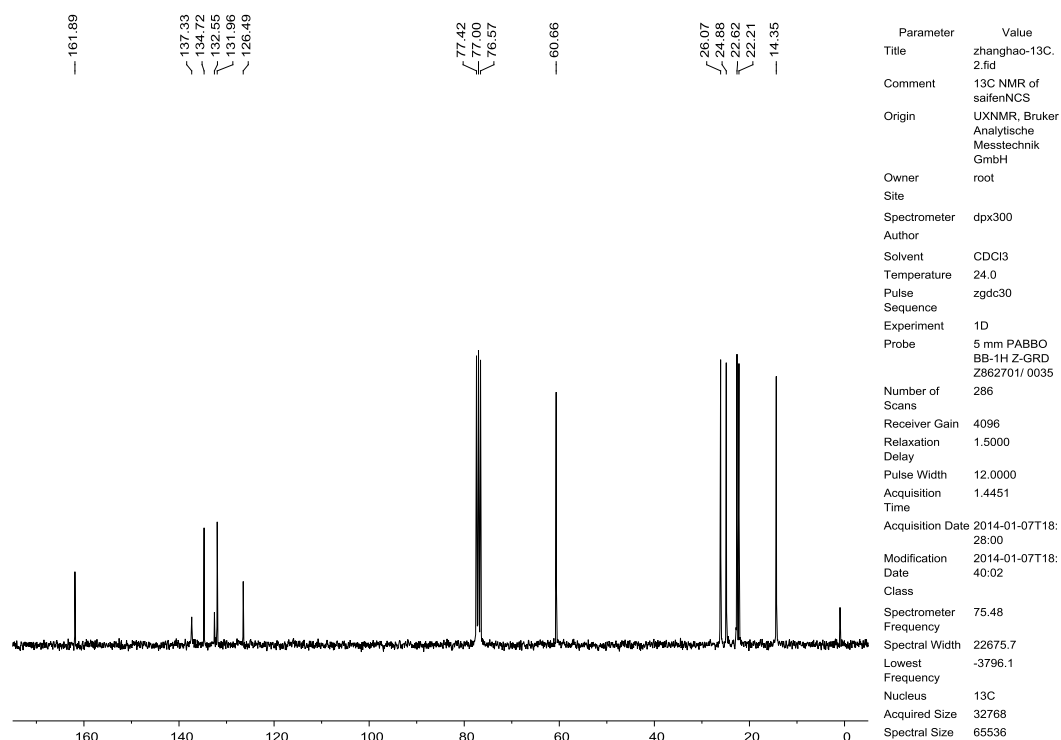
Figure S25. ^1H -NMR spectra of compound **4m**.Figure S26. ^{13}C -NMR spectra of compound **4m**.

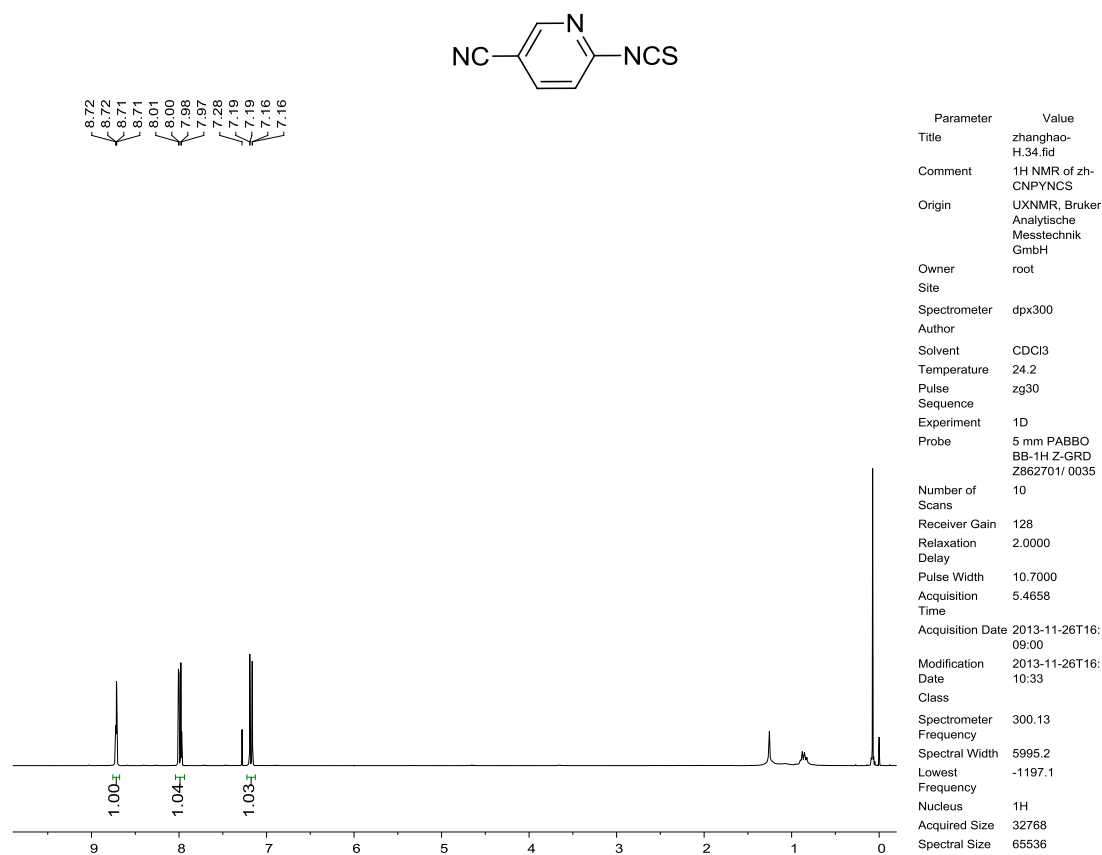
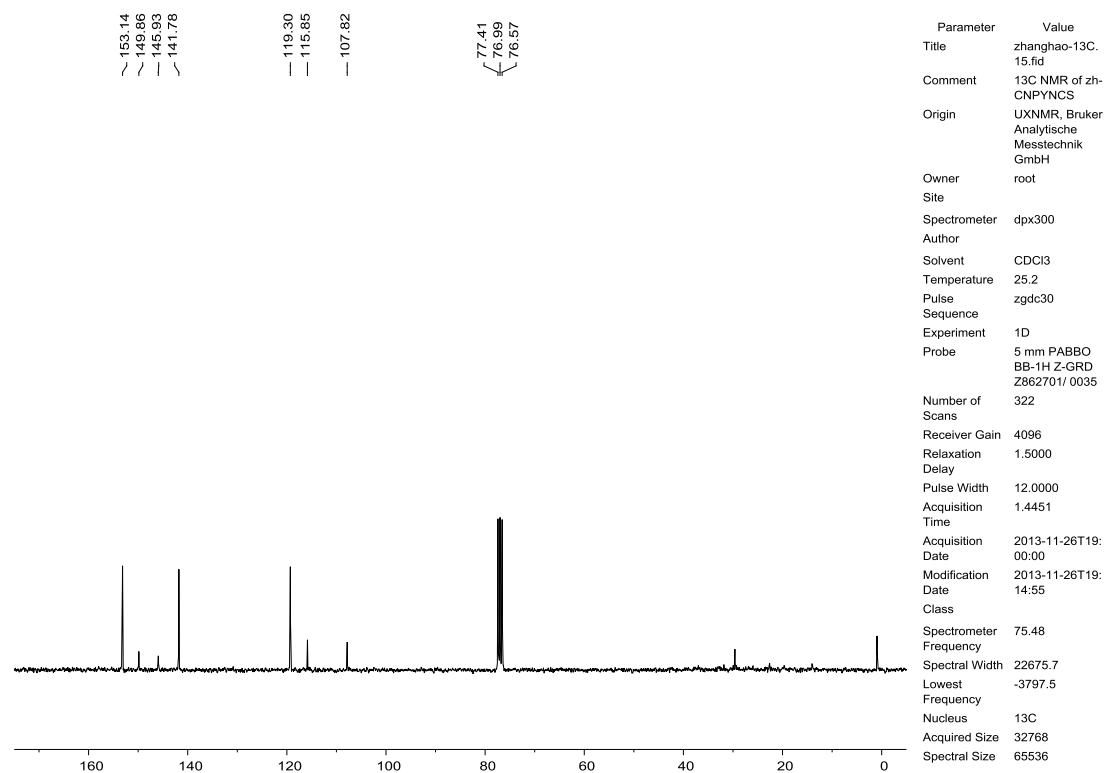
Figure S27. ^1H -NMR spectra of compound **4n**.Figure S28. ^{13}C -NMR spectra of compound **4n**.

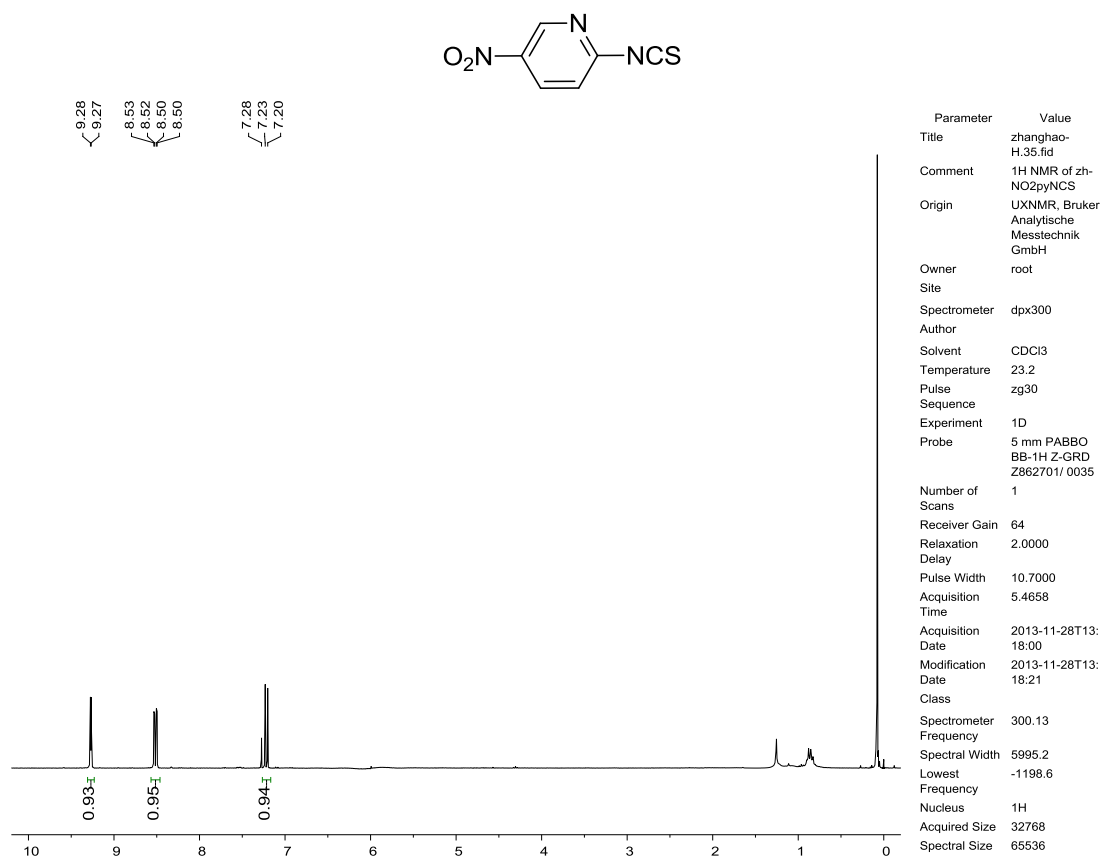
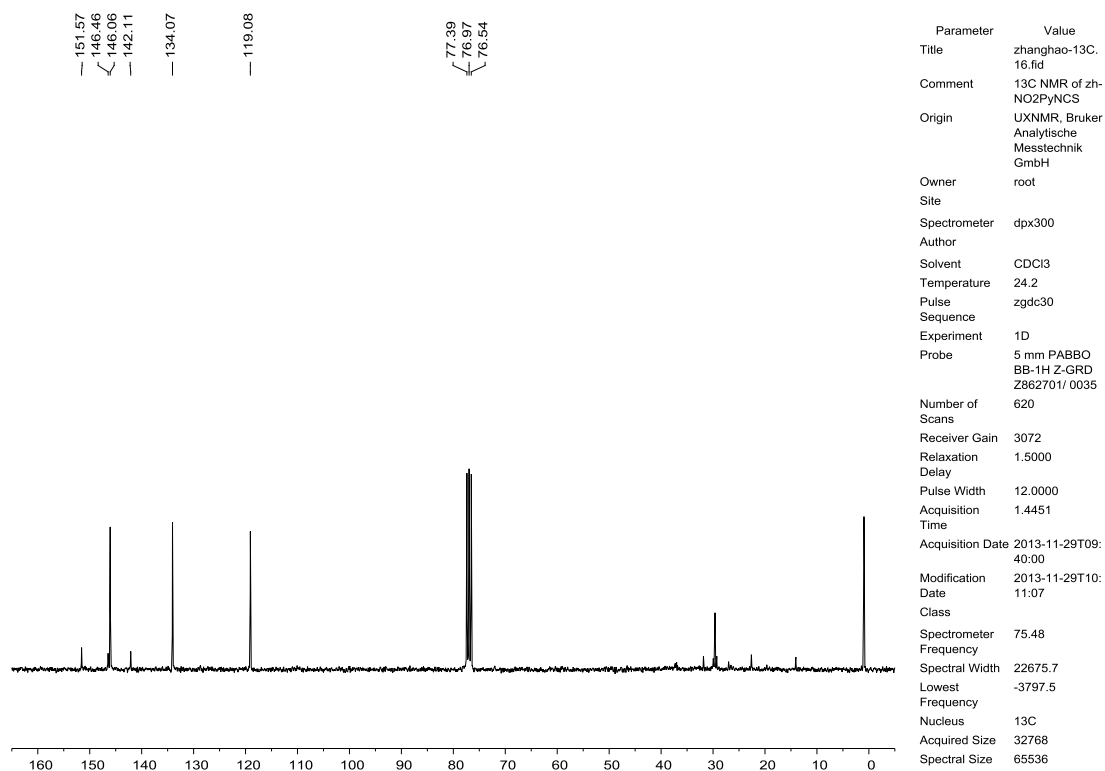
Figure S29. ^1H -NMR spectra of compound **4o**.Figure S30. ^{13}C -NMR spectra of compound **4o**.

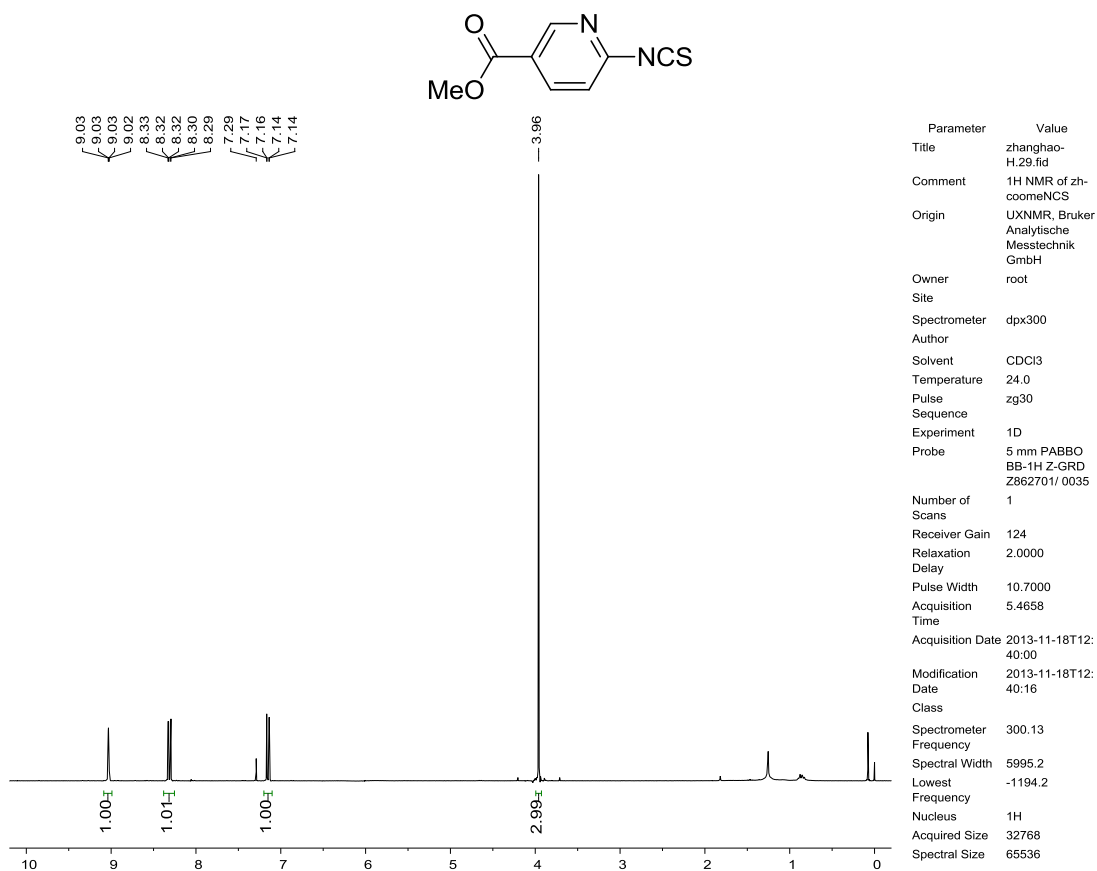
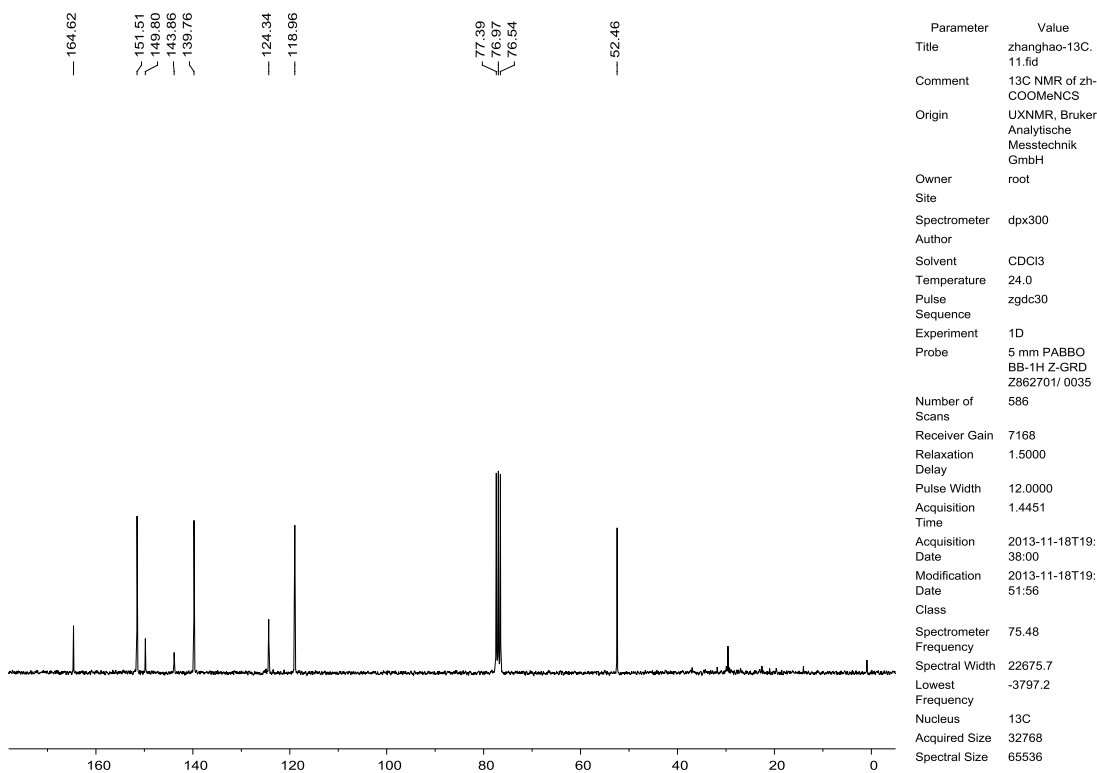
Figure S31. ¹H-NMR spectra of compound 4p.Figure S32. ¹³C-NMR spectra of compound 4p.

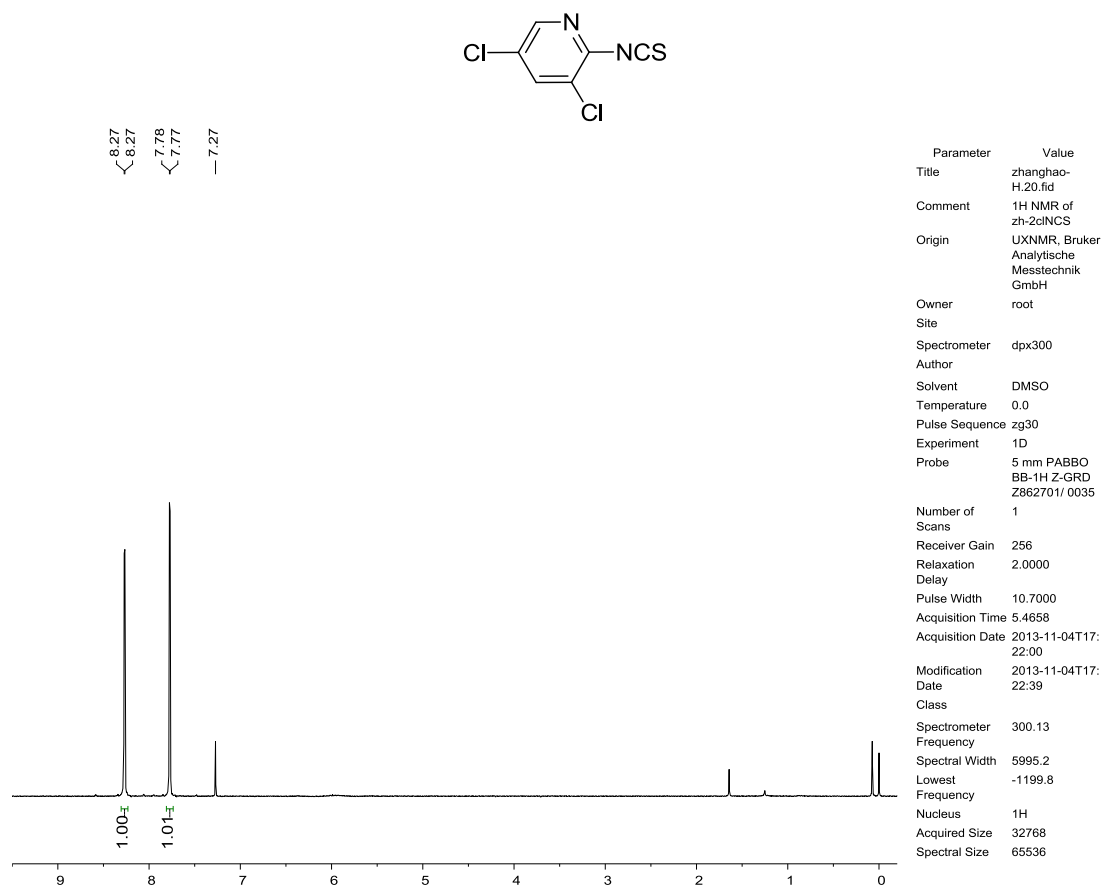
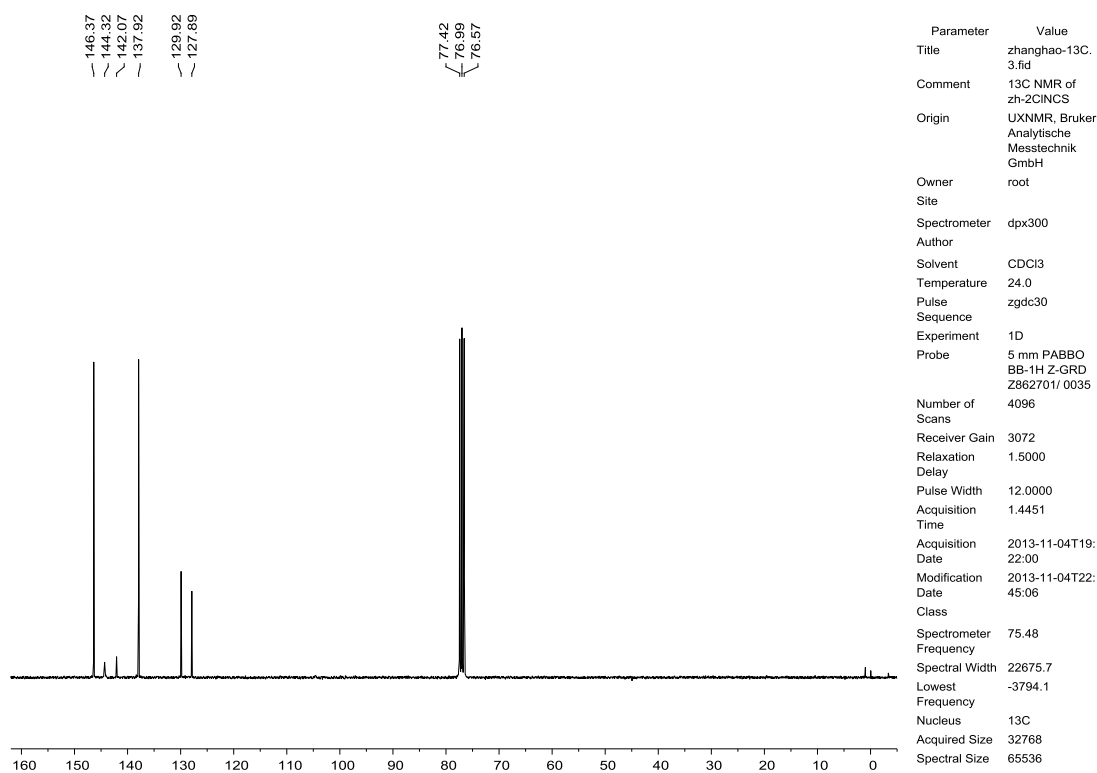
Figure S33. ^1H -NMR spectra of compound **4q**.Figure S34. ^{13}C -NMR spectra of compound **4q**.

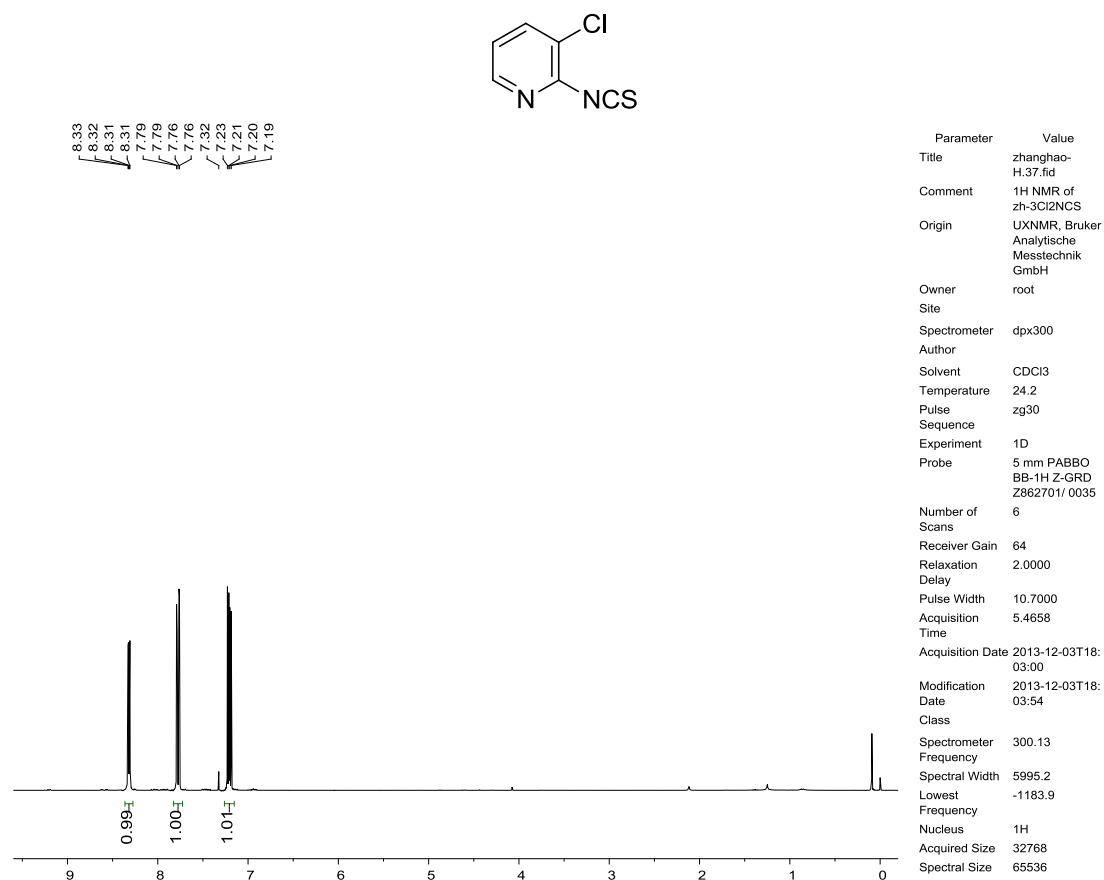
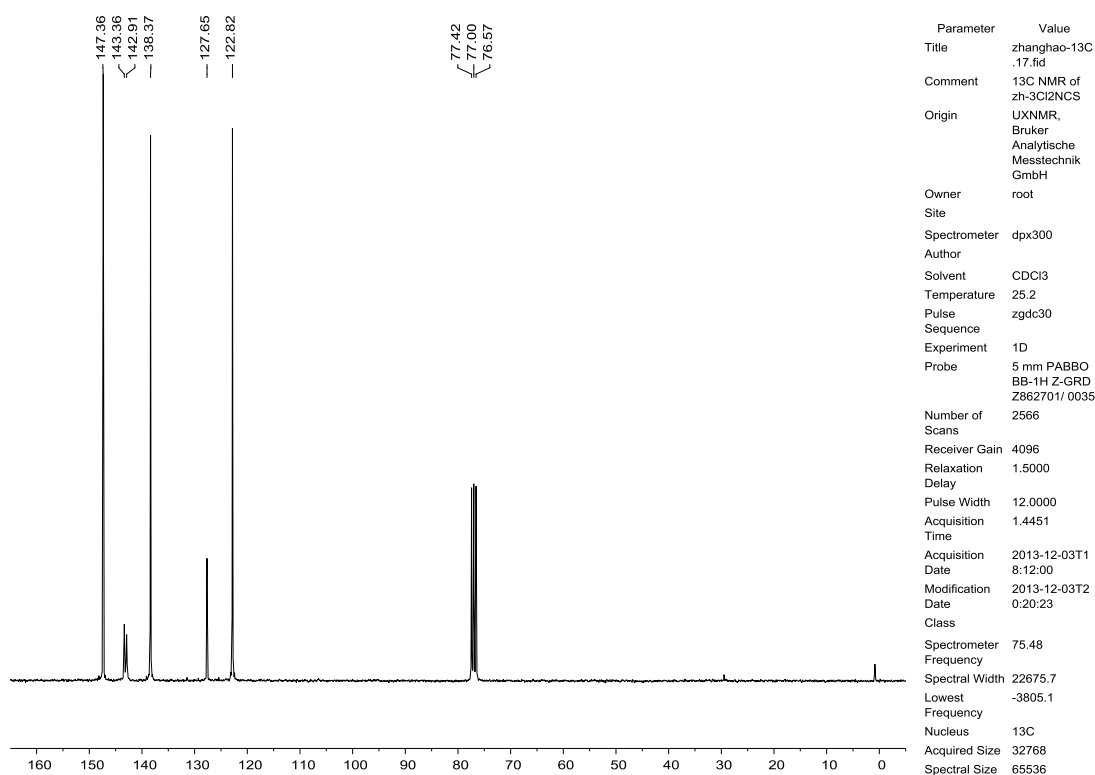
Figure S35. ^1H -NMR spectra of compound **4r**.Figure S36. ^{13}C -NMR spectra of compound **4r**.

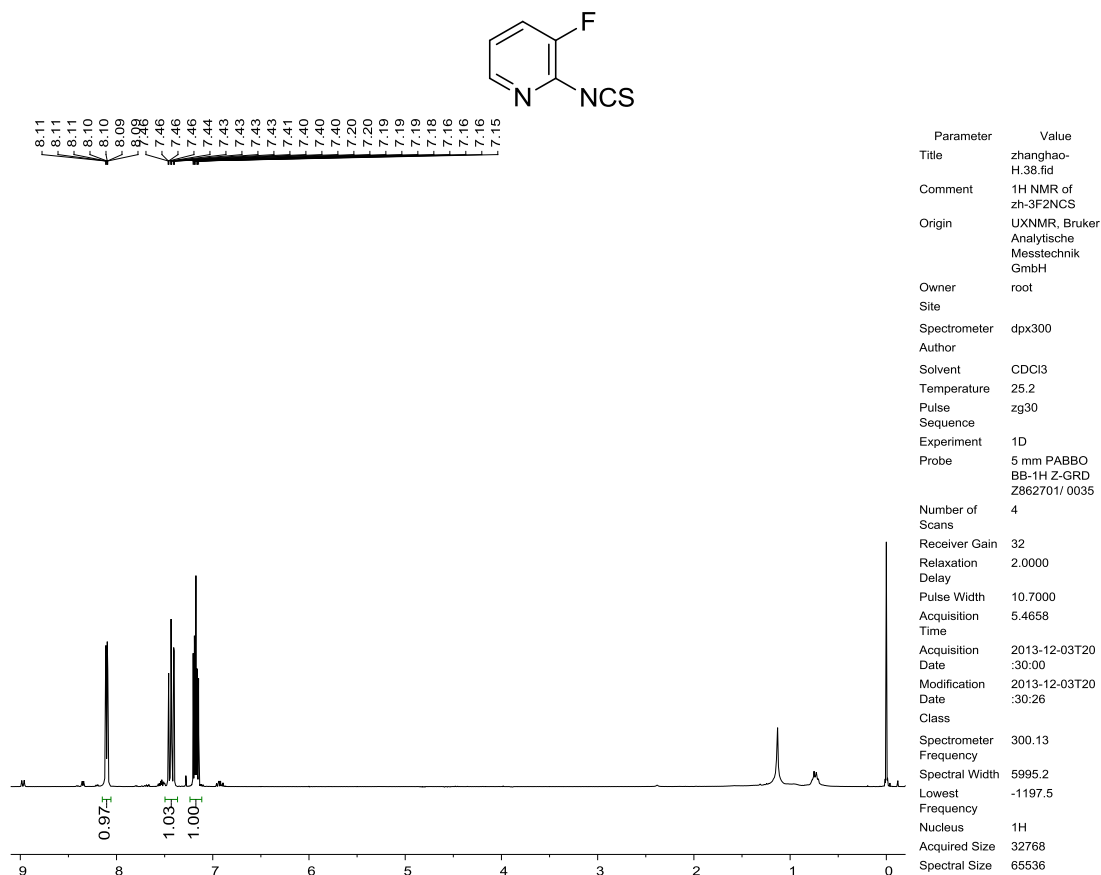
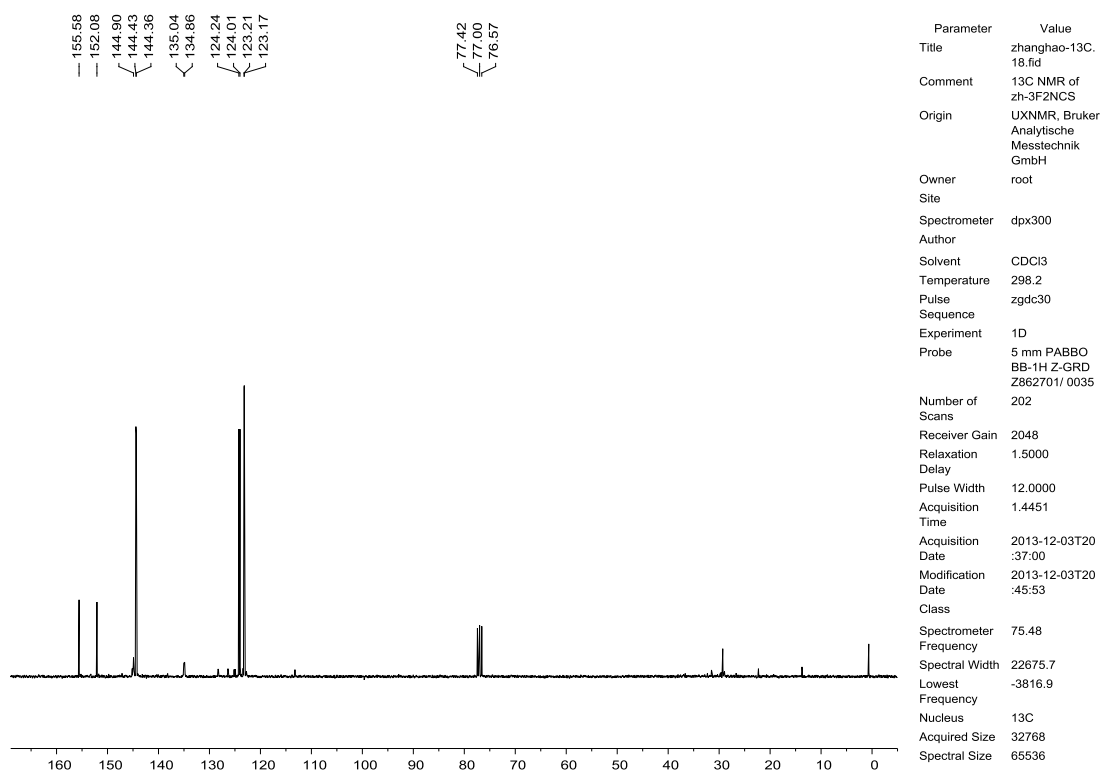
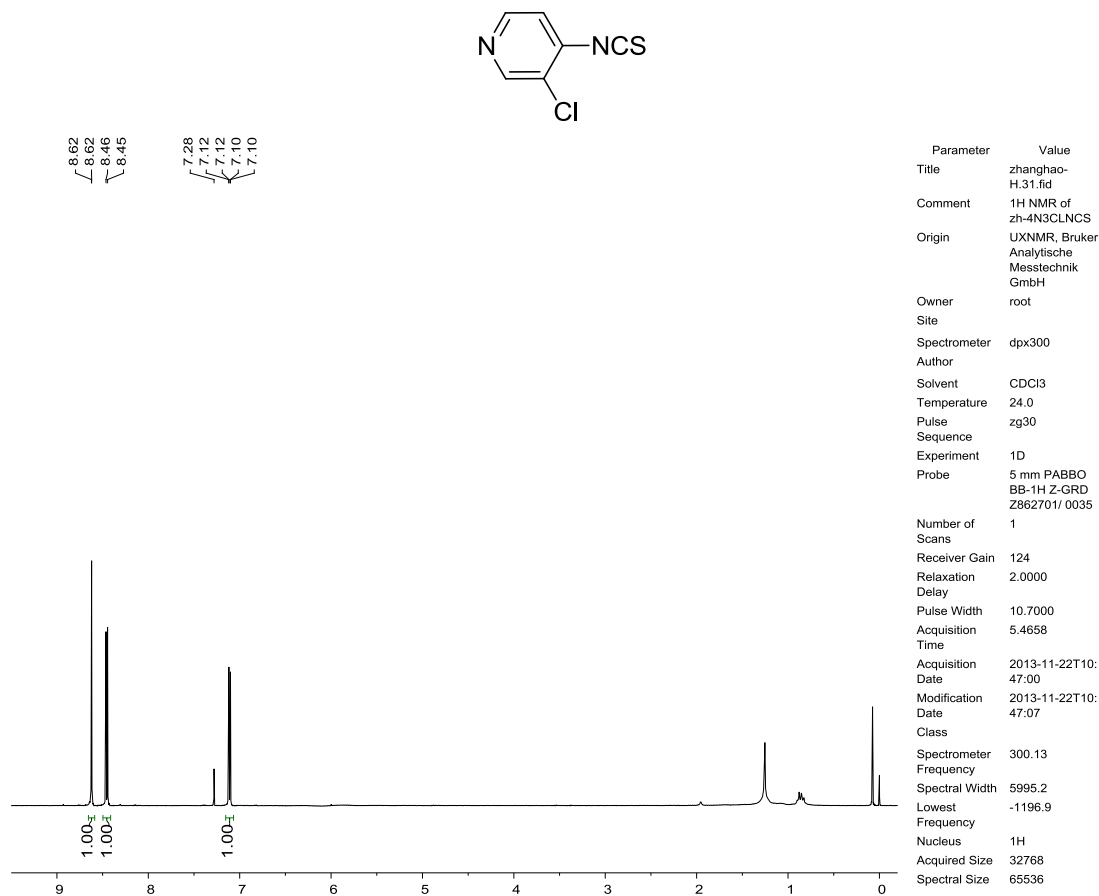
Figure S37. ^1H -NMR spectra of compound 4s.Figure S38. ^{13}C -NMR spectra of compound 4s.

Figure S39. ^1H -NMR spectra of compound 4t.Figure S40. ^{13}C -NMR spectra of compound 4t.