

Supplementary Materials: An efficient one-pot catalyzed synthesis of 2,4-disubstituted 5-nitroimidazole displaying antiparasitic and antibacterial activities.

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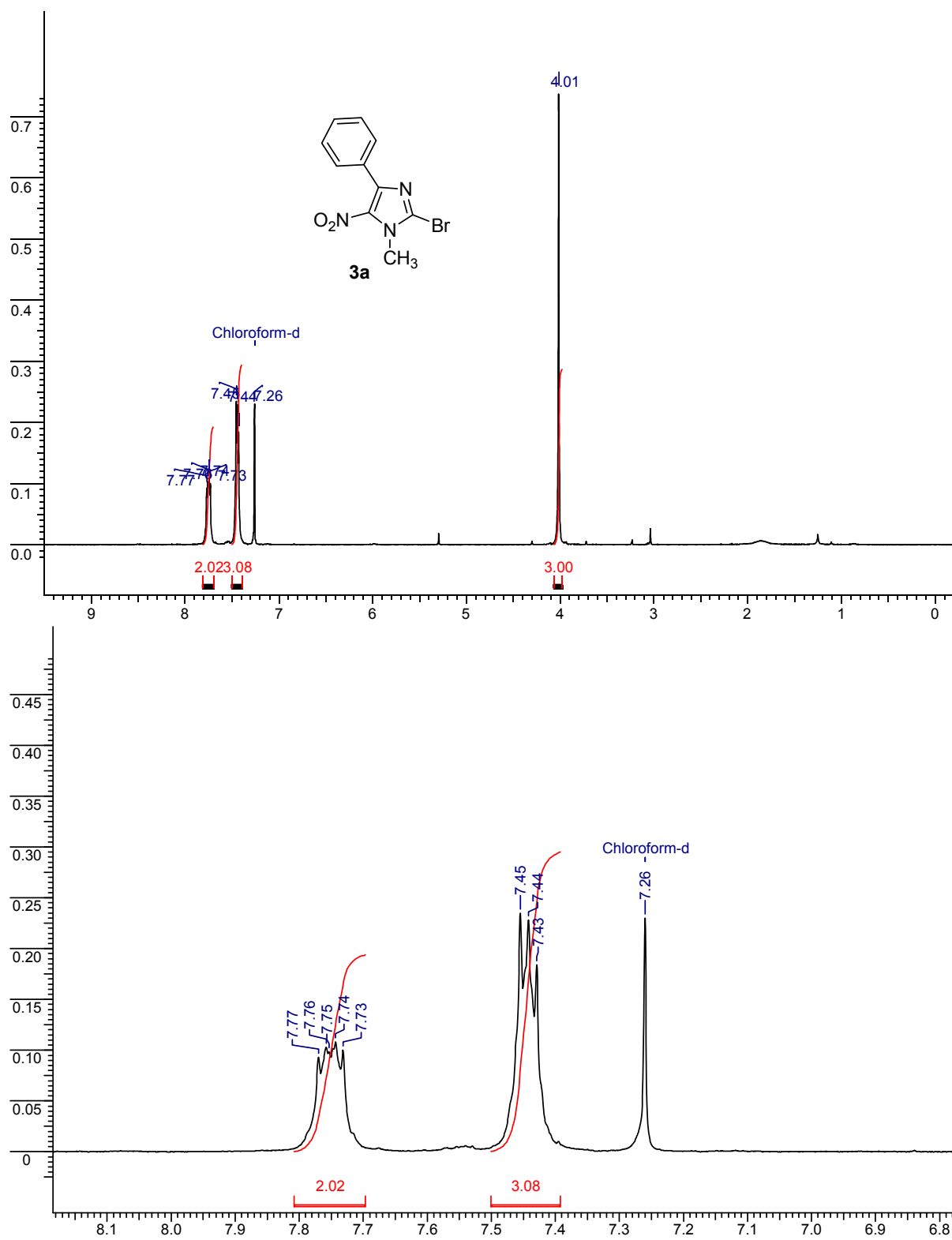


Figure S1. ¹H-NMR spectra of **3a**

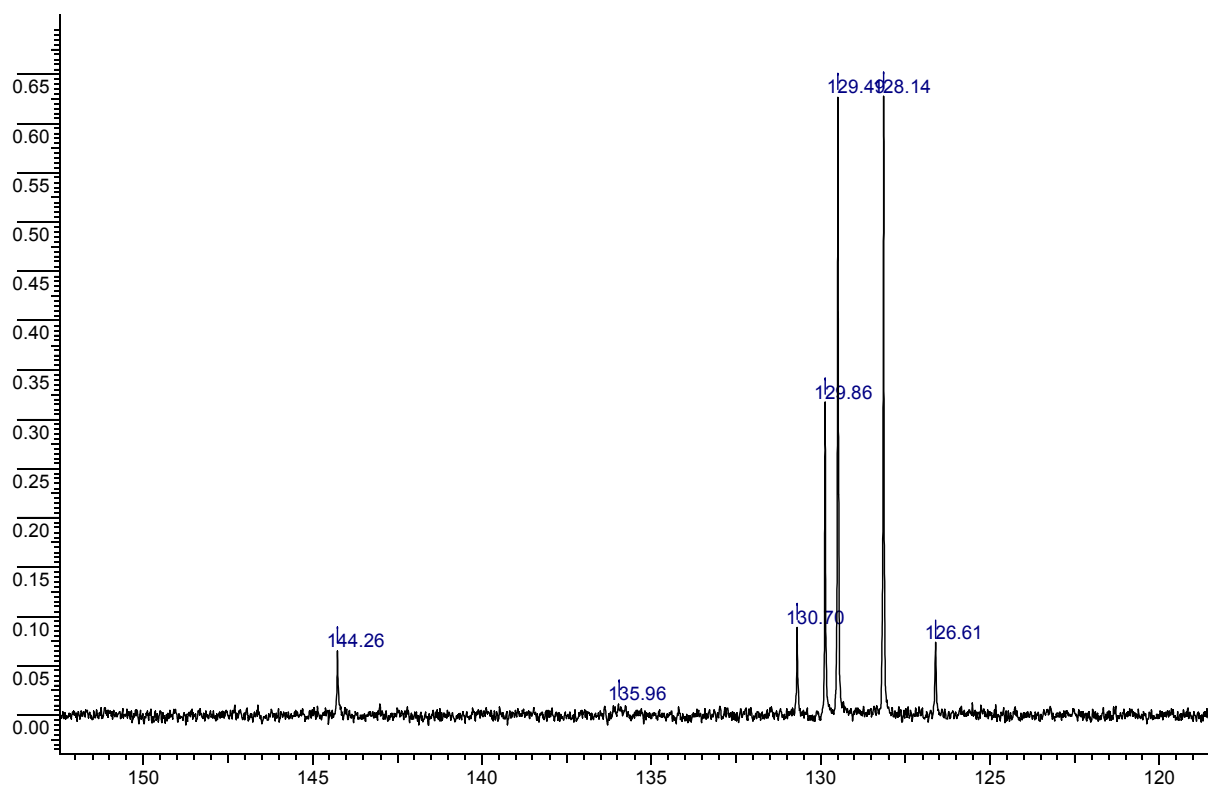
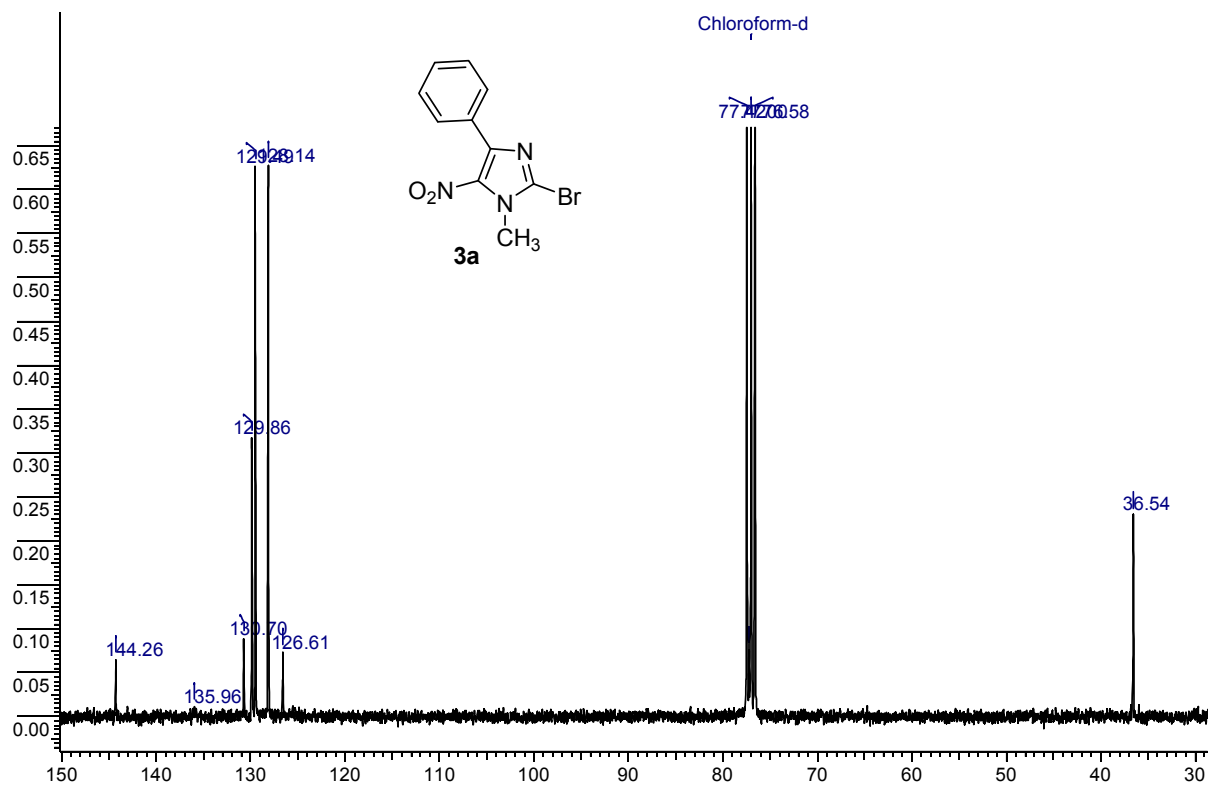


Figure S2. ¹³C-NMR spectra of **3a**

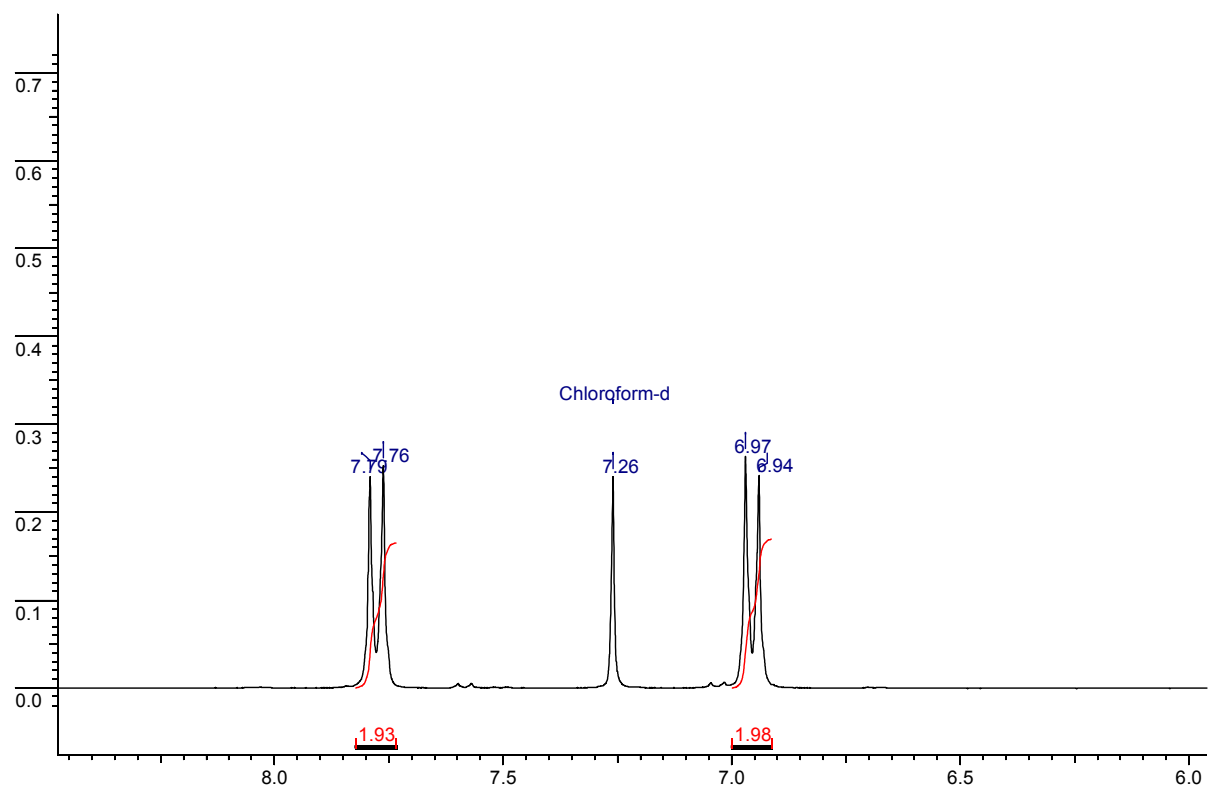
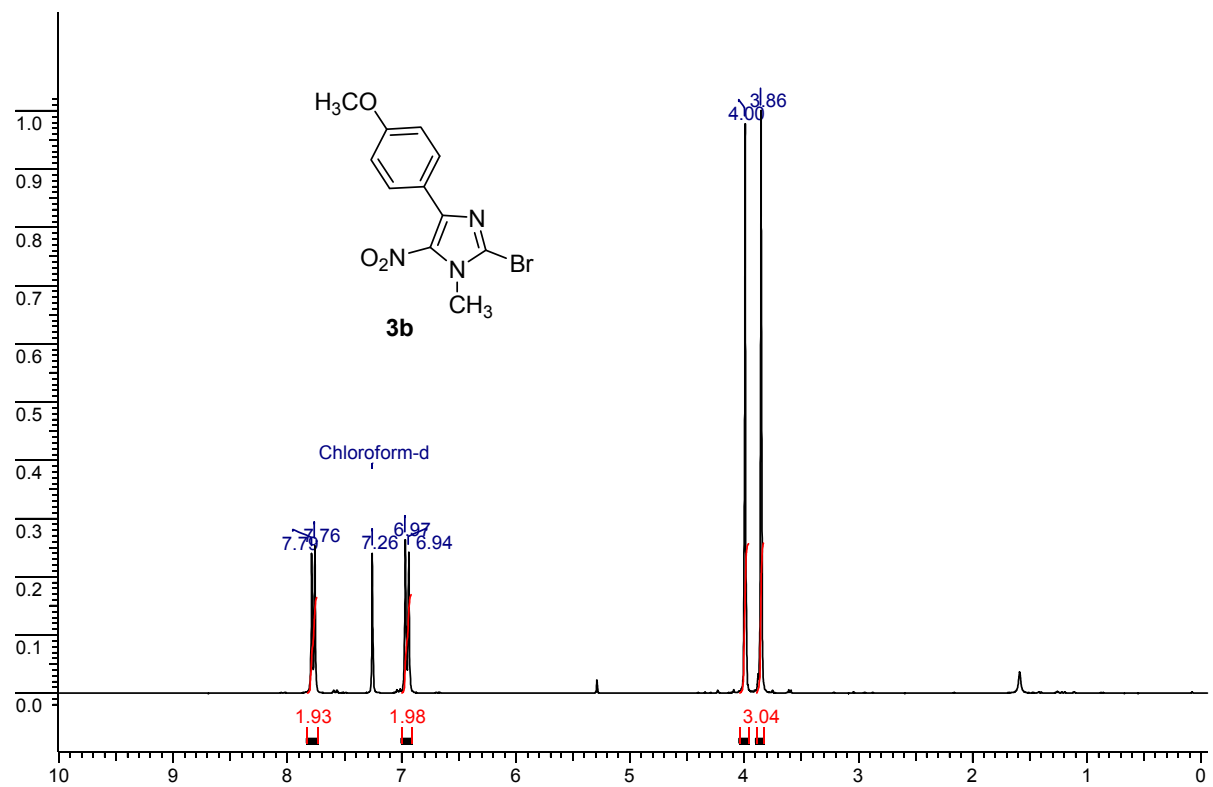


Figure S3. ¹H-NMR spectra of **3b**

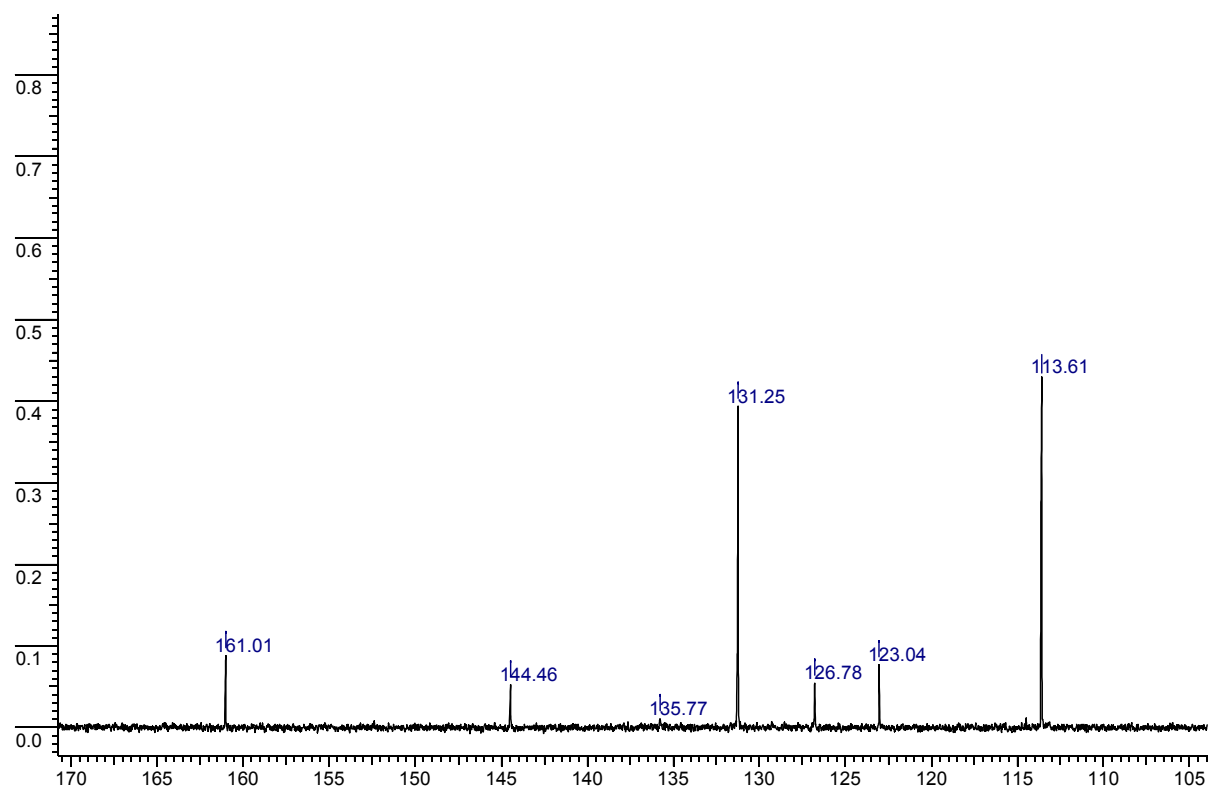
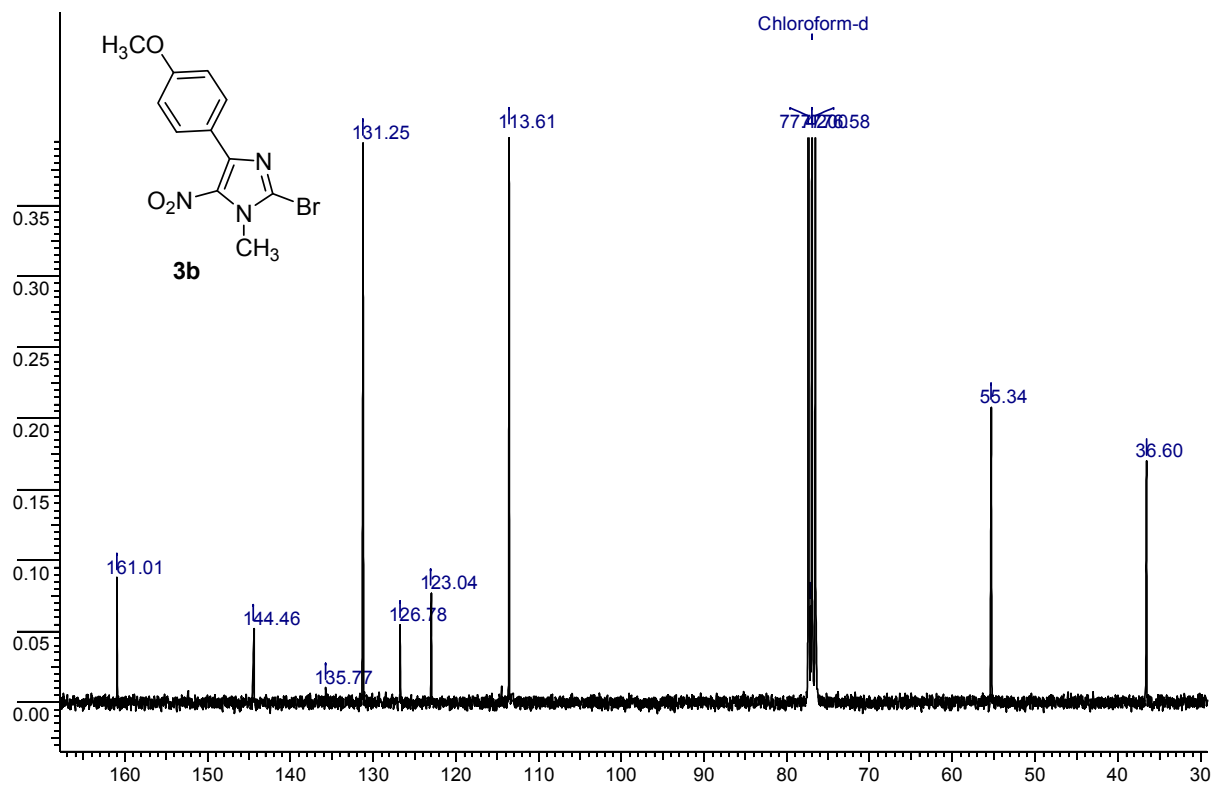


Figure S4. ^{13}C -NMR spectra of **3b**

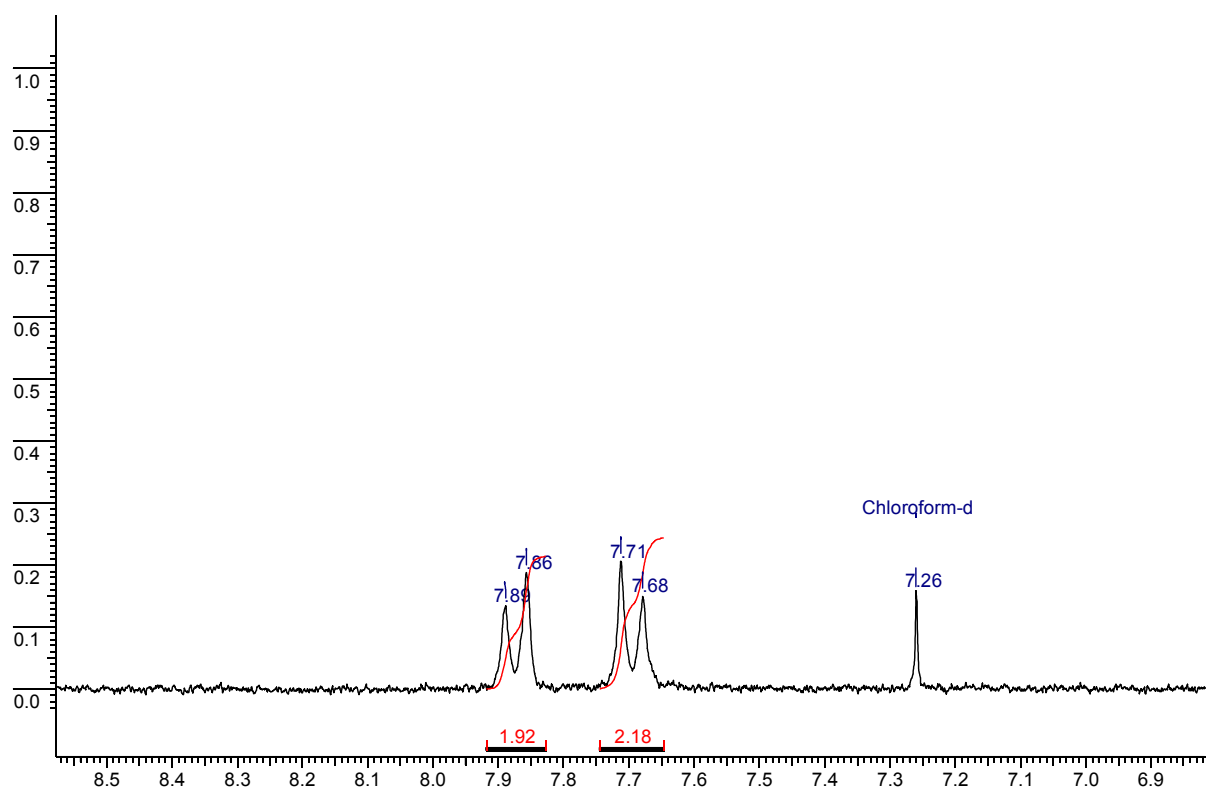
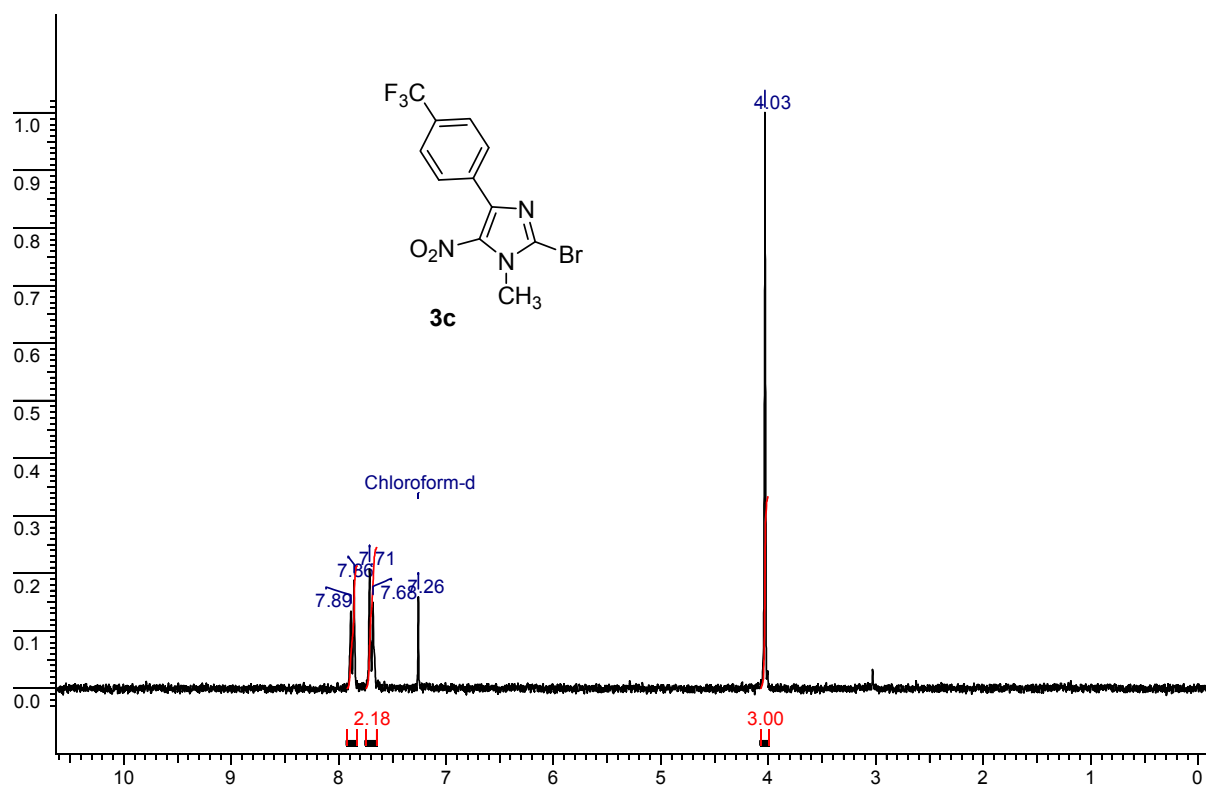


Figure S5. ¹H-NMR spectra of **3c**

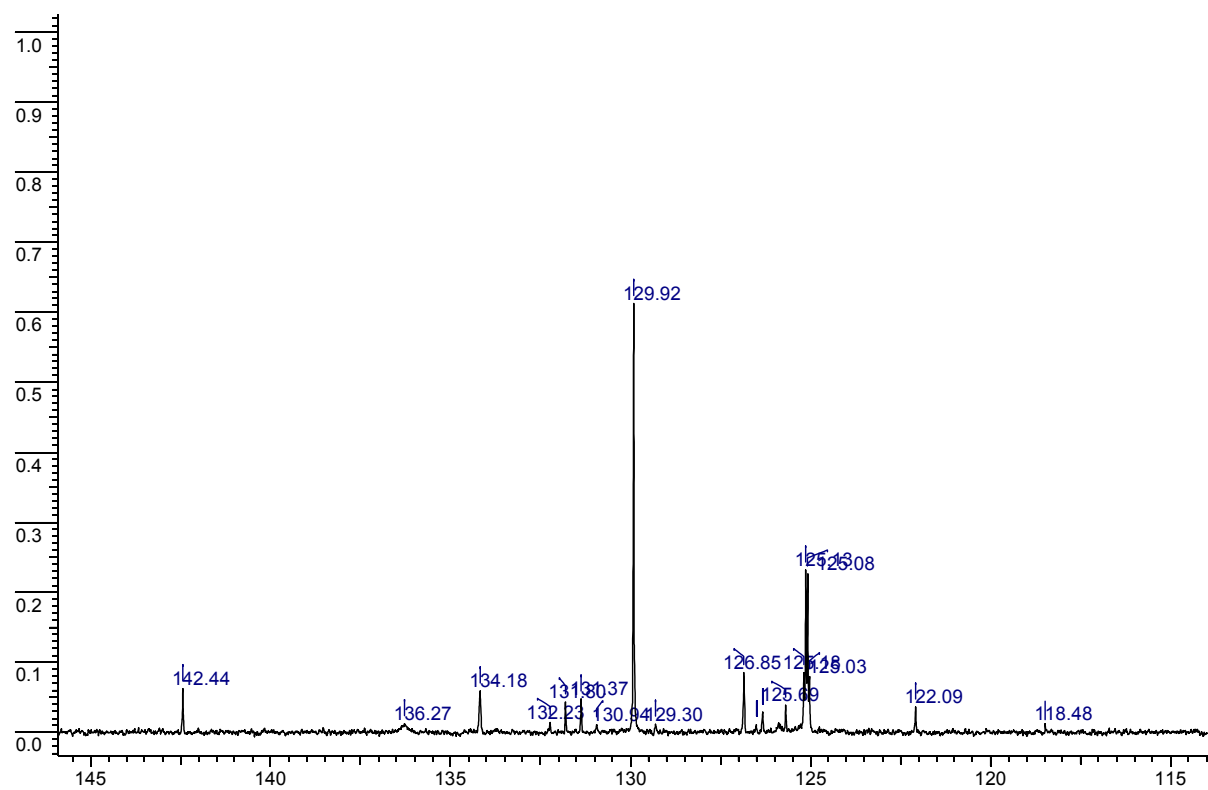
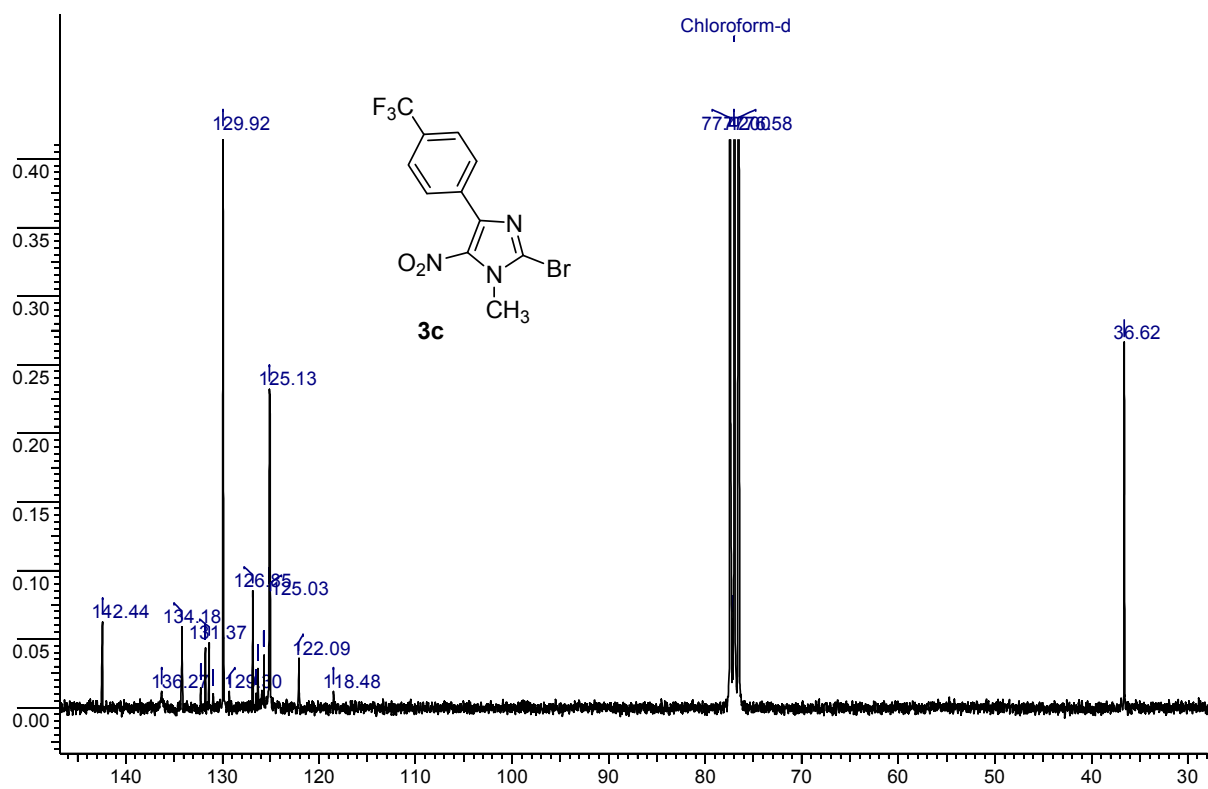


Figure S6. ^{13}C -NMR spectra of **3c**

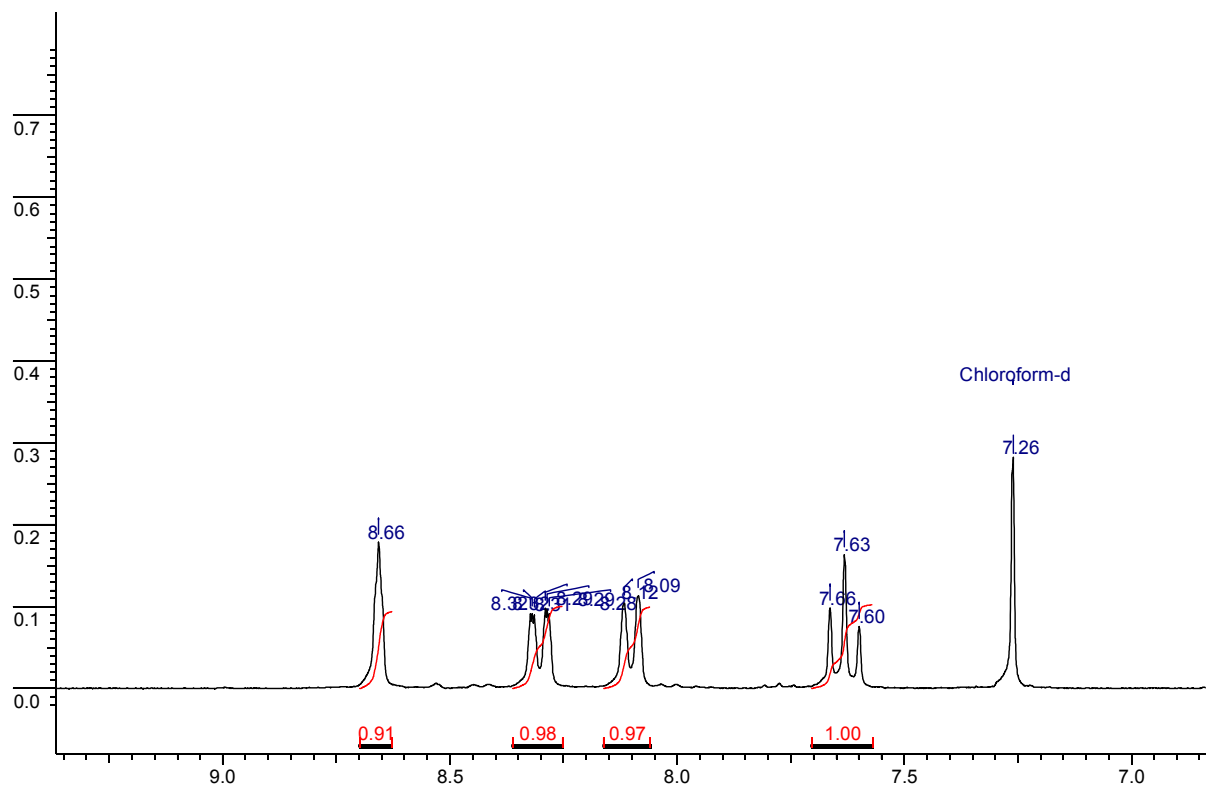
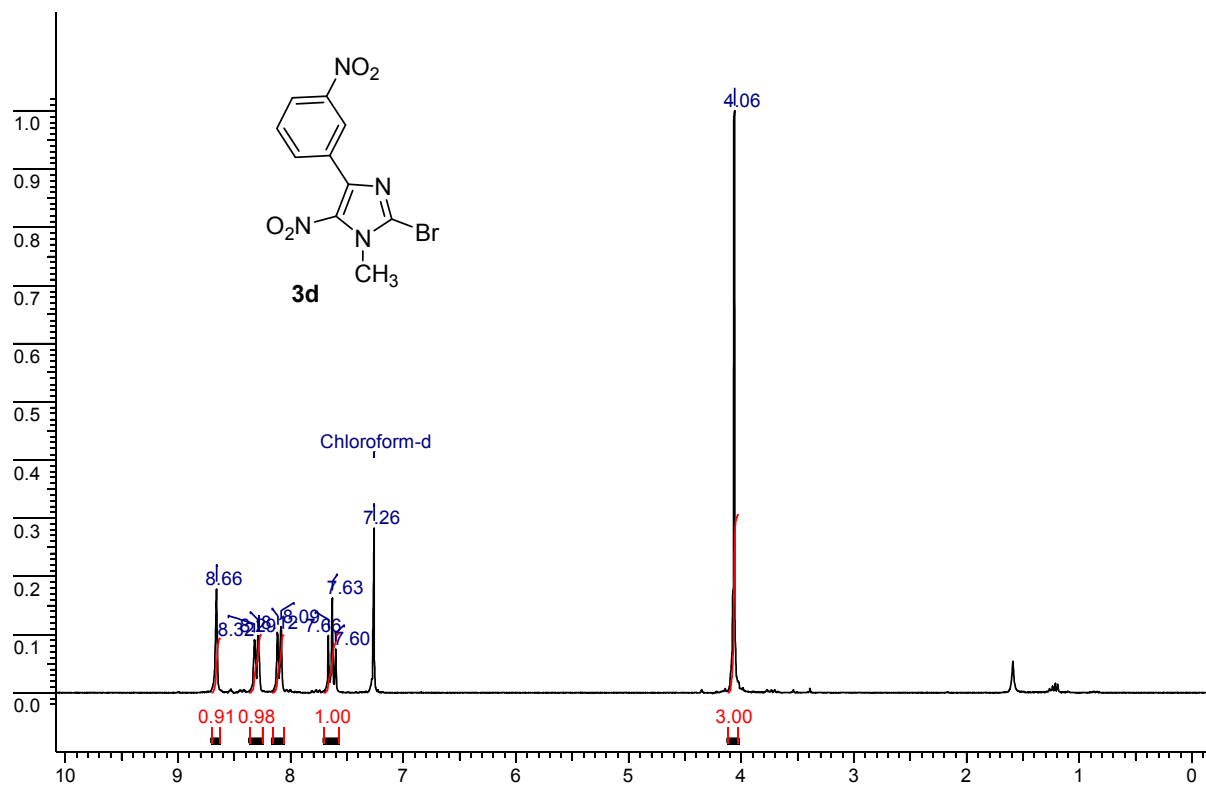


Figure S7. ¹H-NMR spectra of **3d**

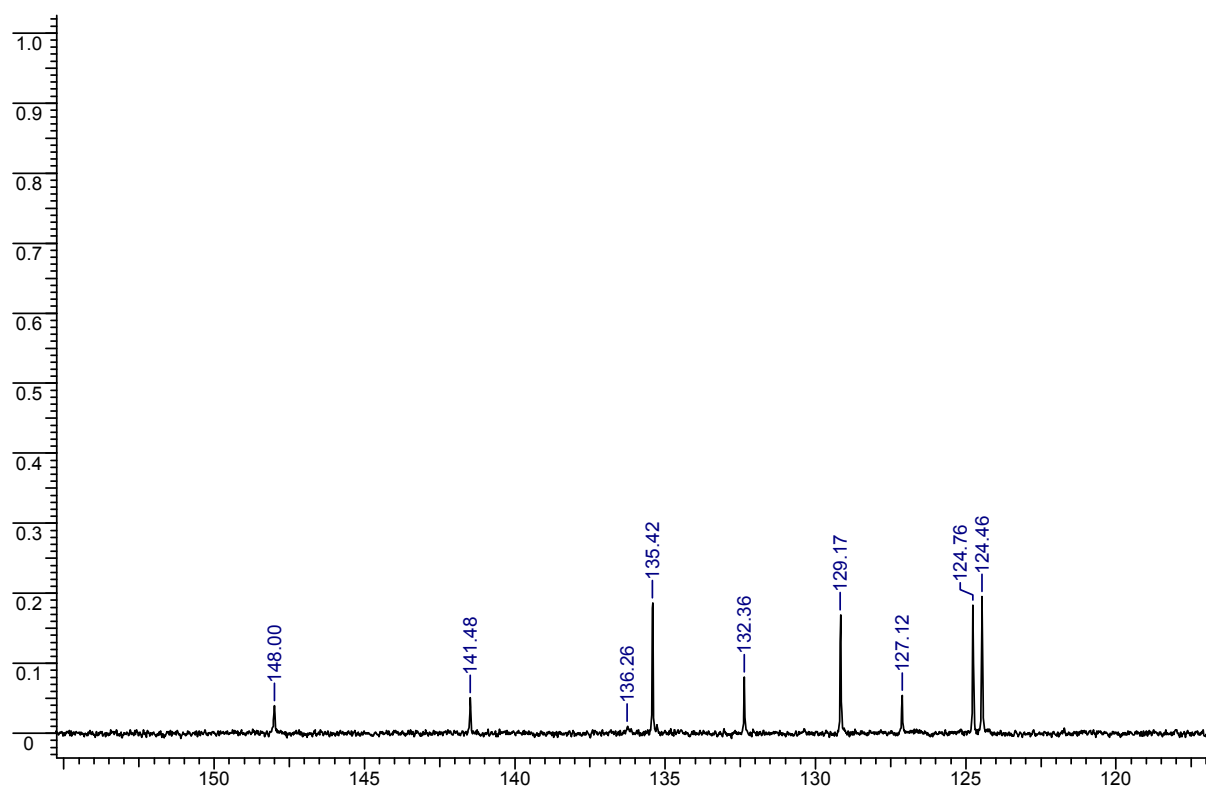
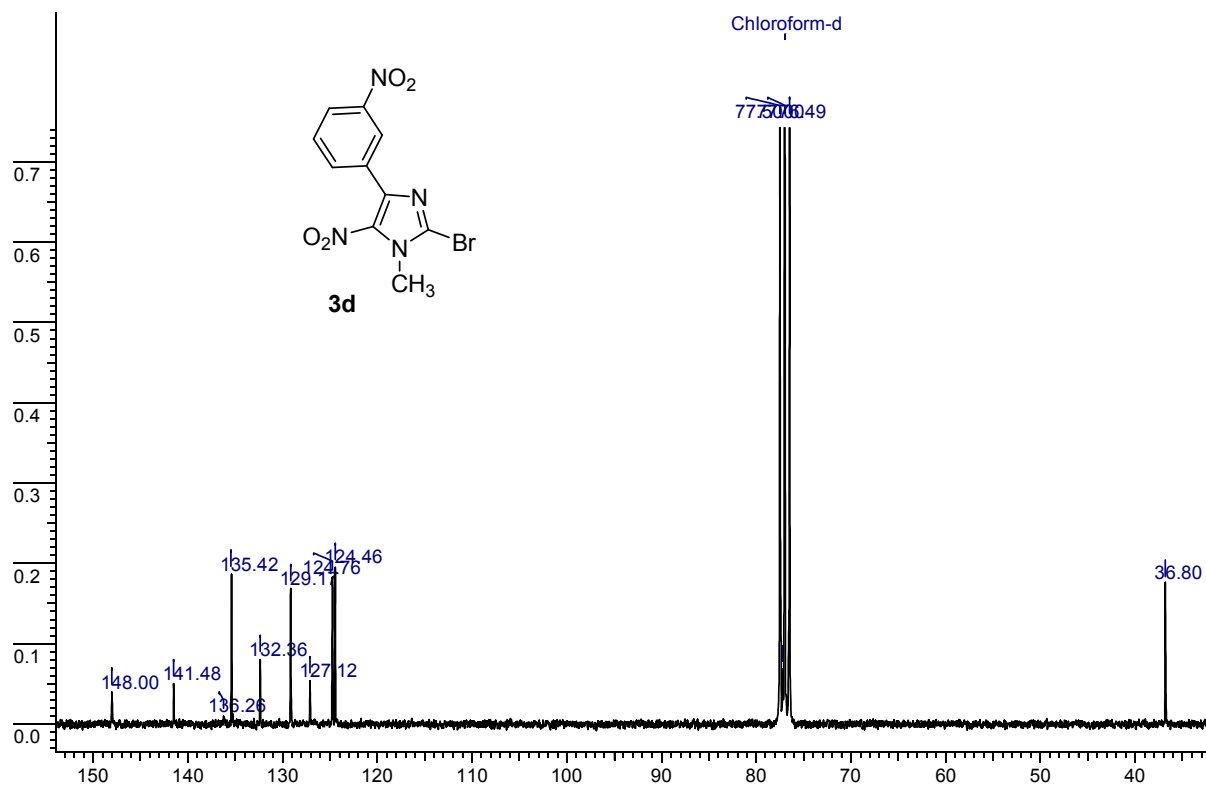


Figure S8. ^{13}C -NMR spectra of **3d**

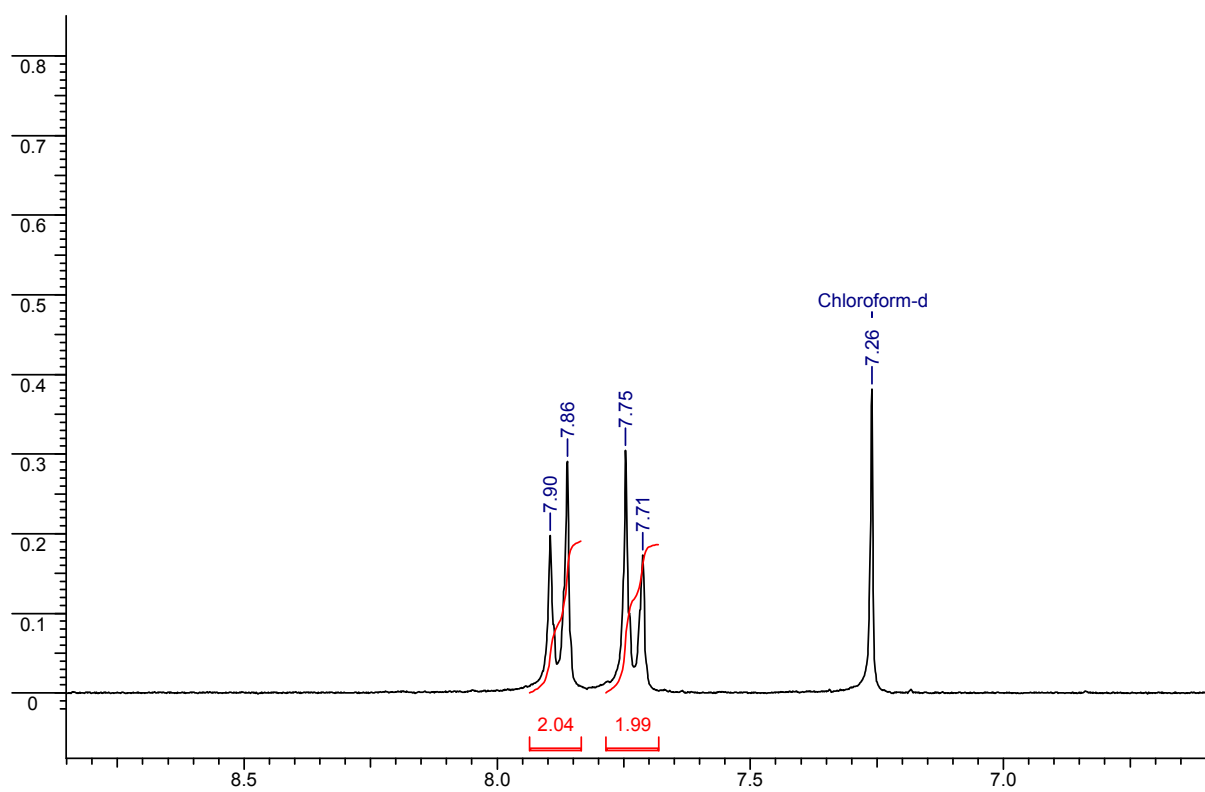
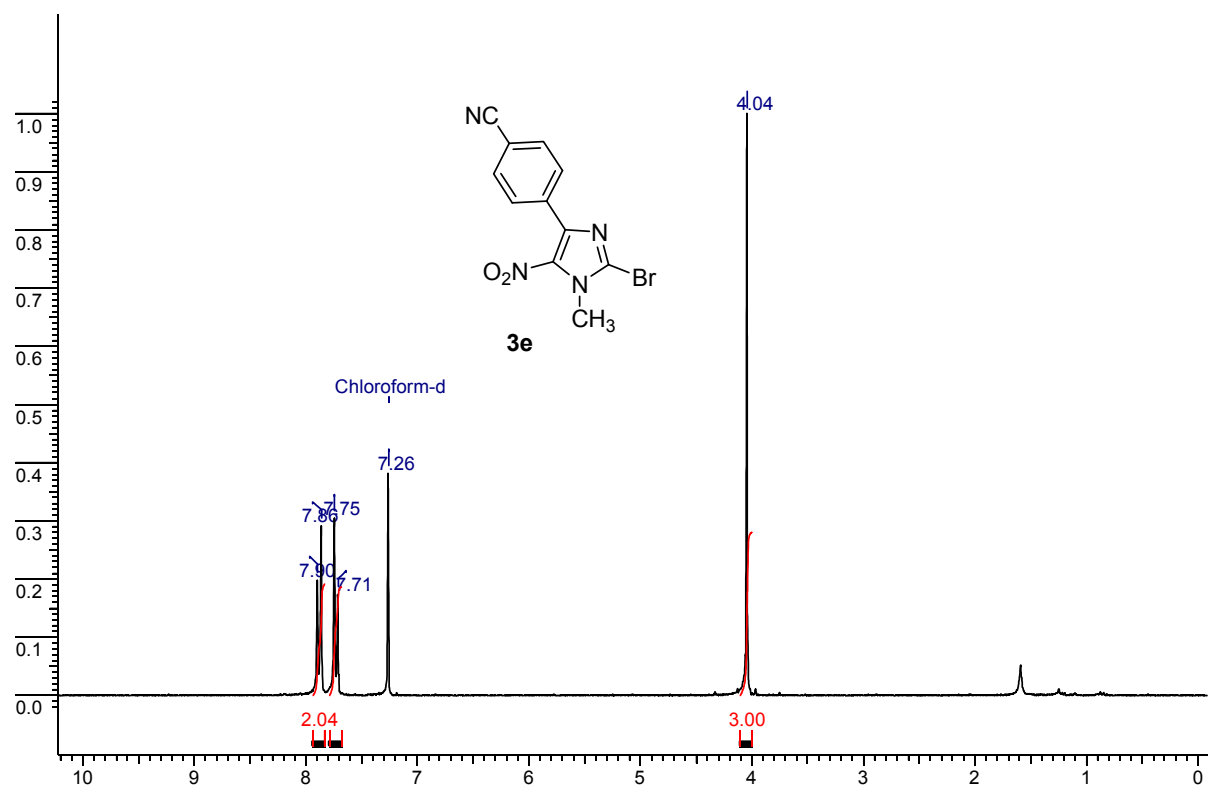


Figure S9. ¹H-NMR spectra of **3e**

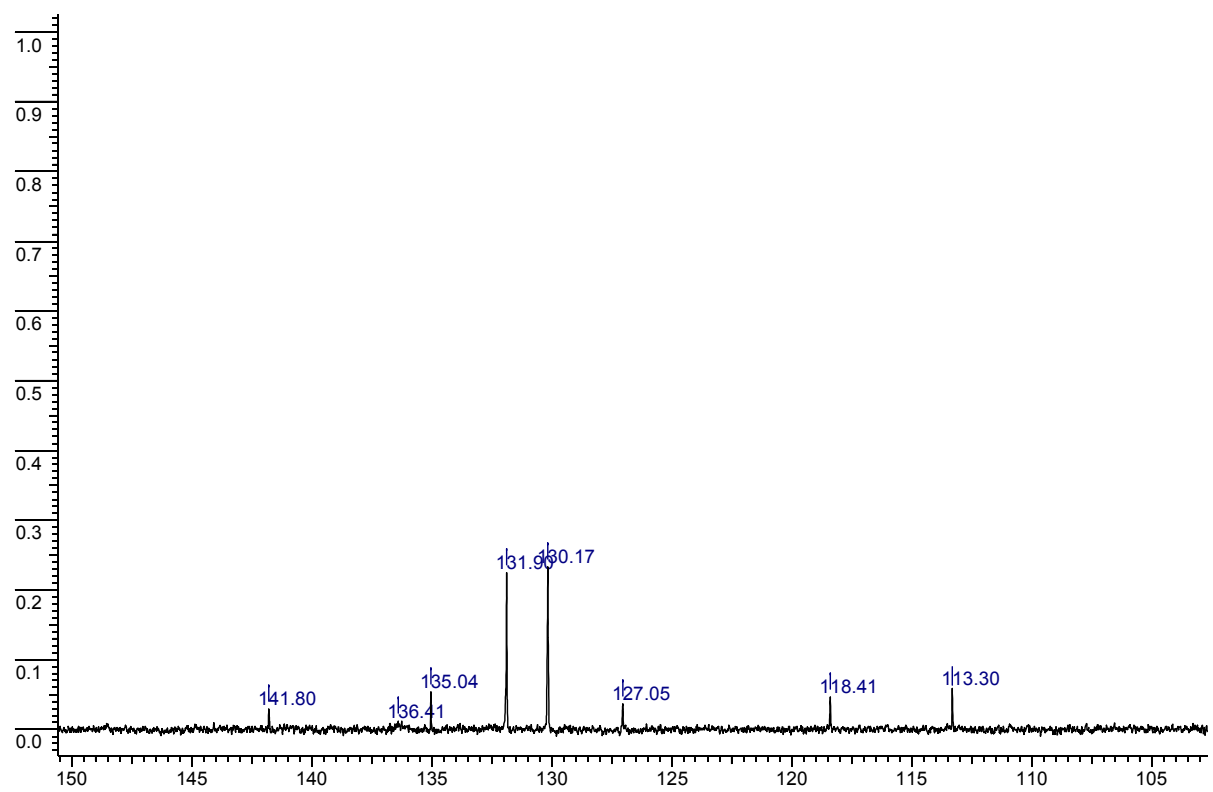
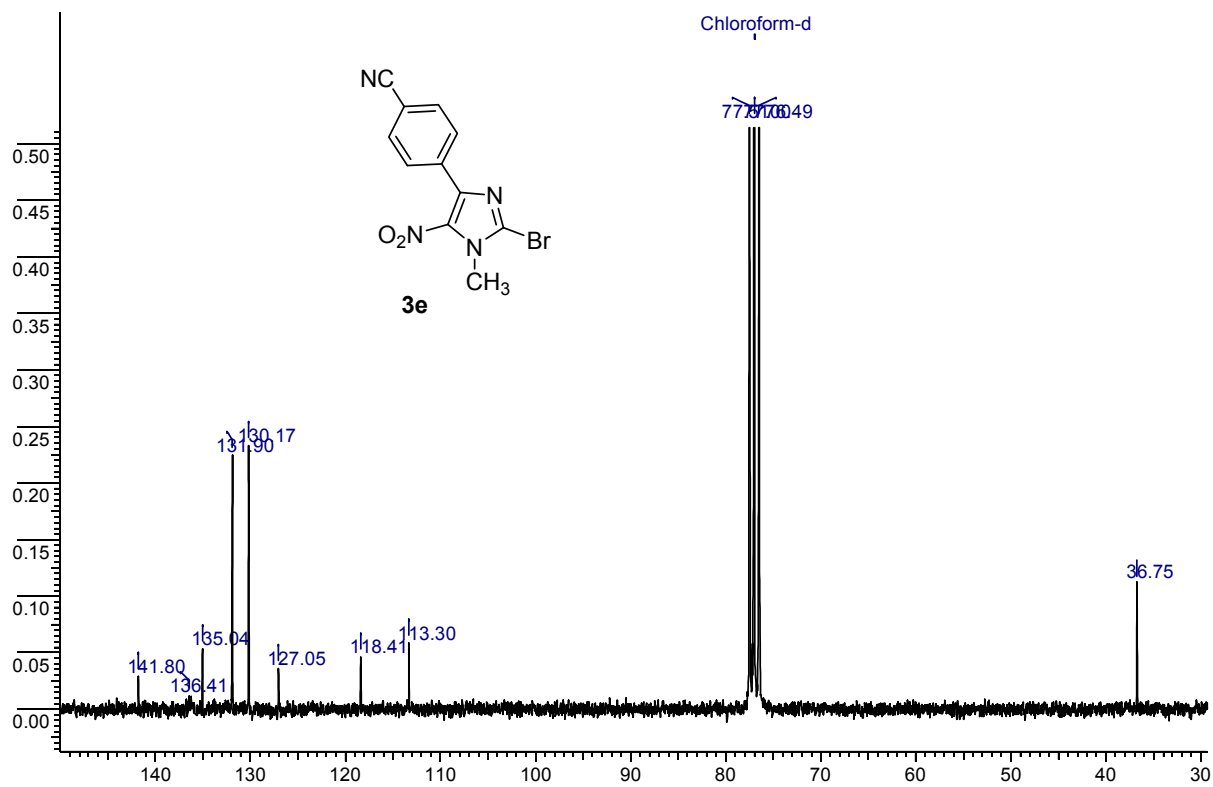


Figure S10. ^{13}C -NMR spectra of **3e**

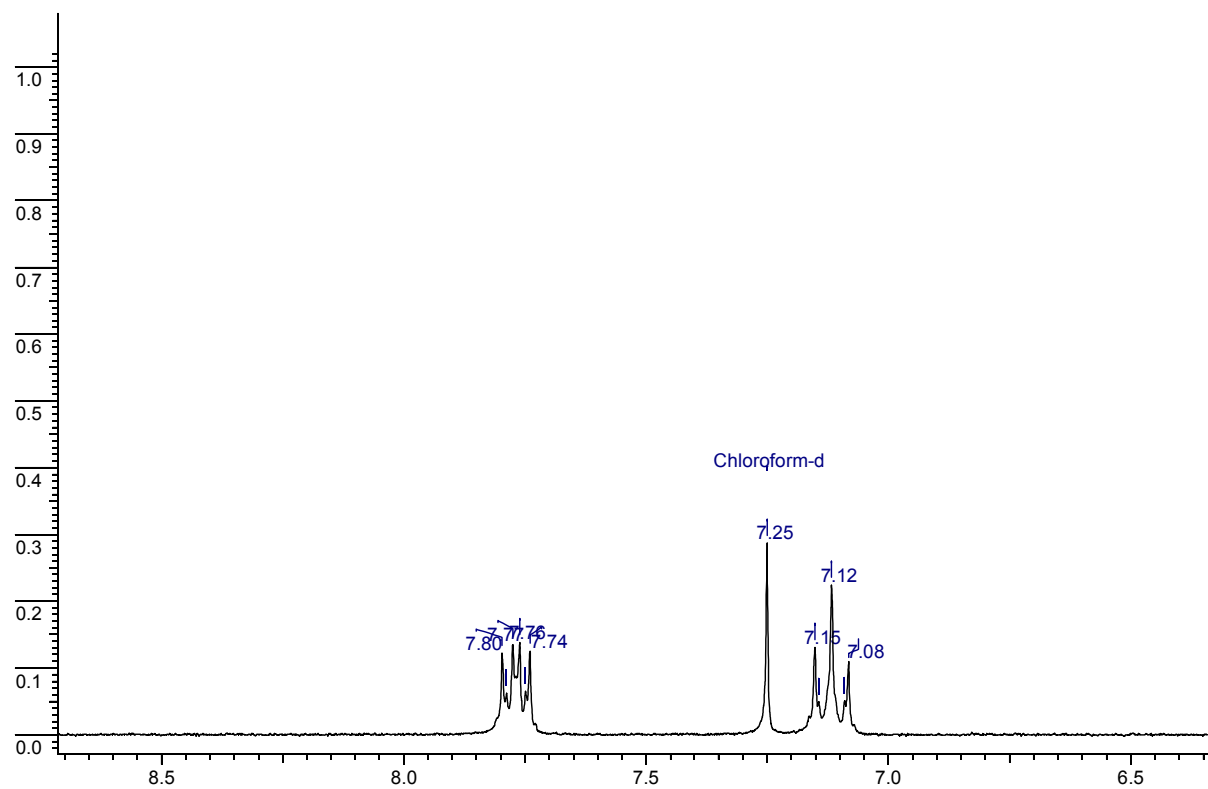
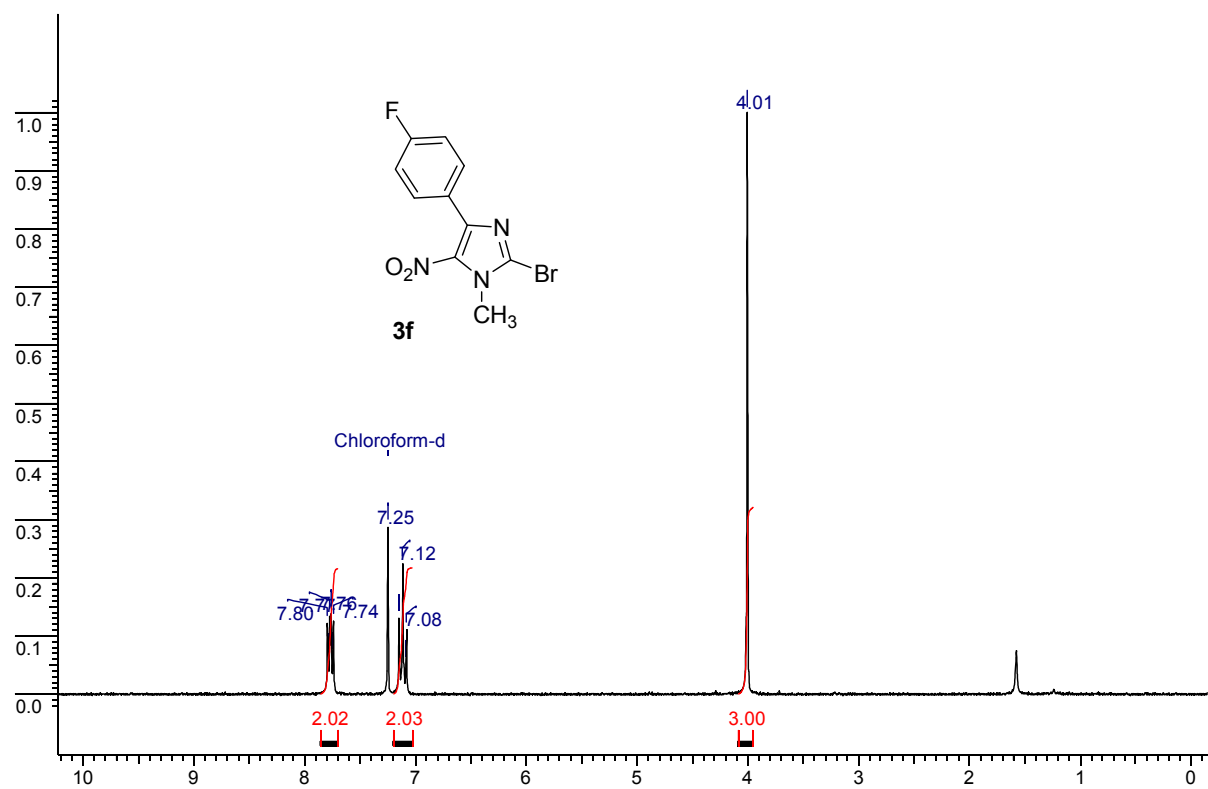


Figure S11. ¹H-NMR spectra of **3f**

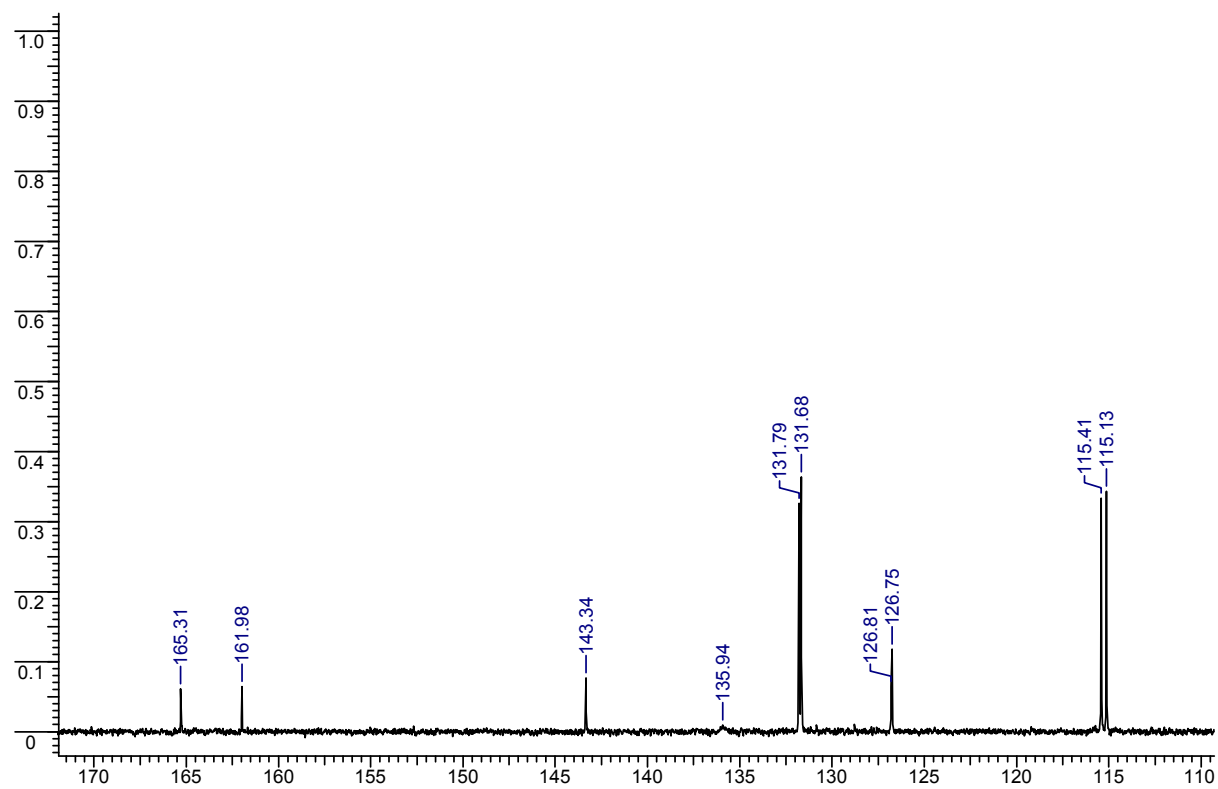
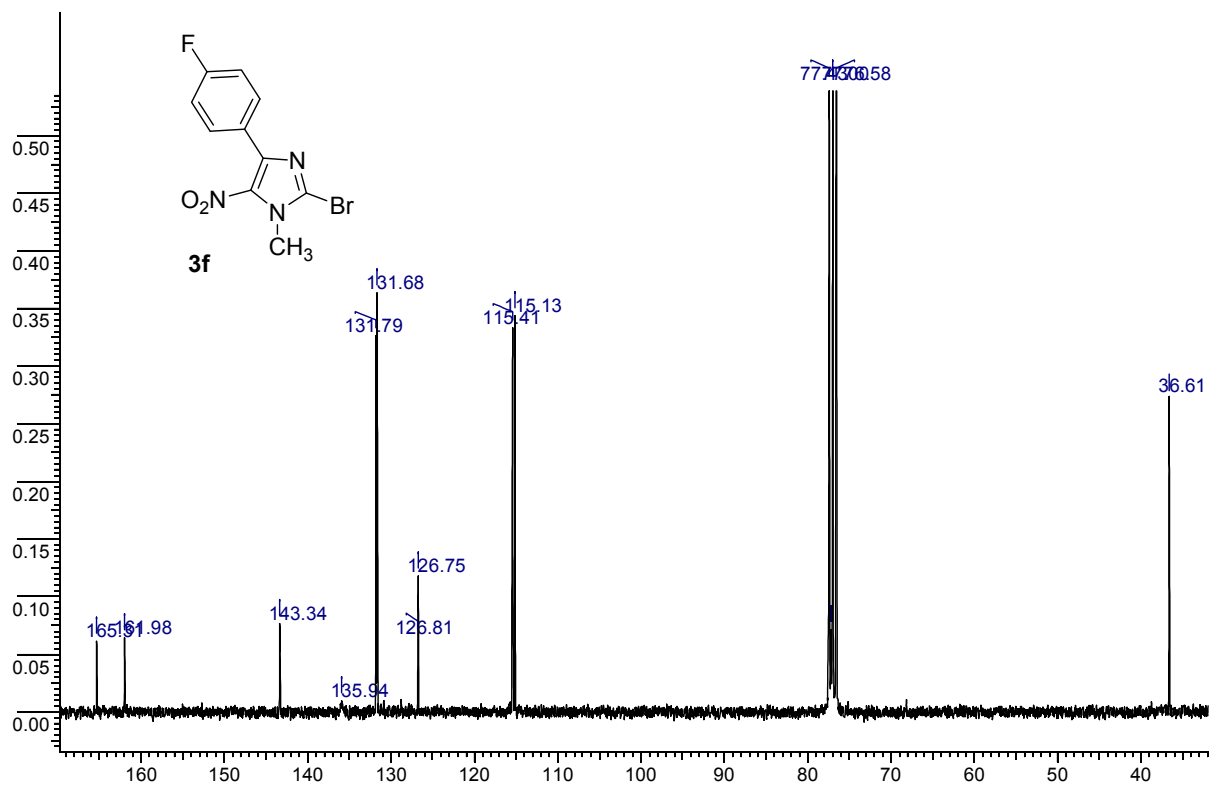


Figure S12. ^{13}C -NMR spectra of **3f**

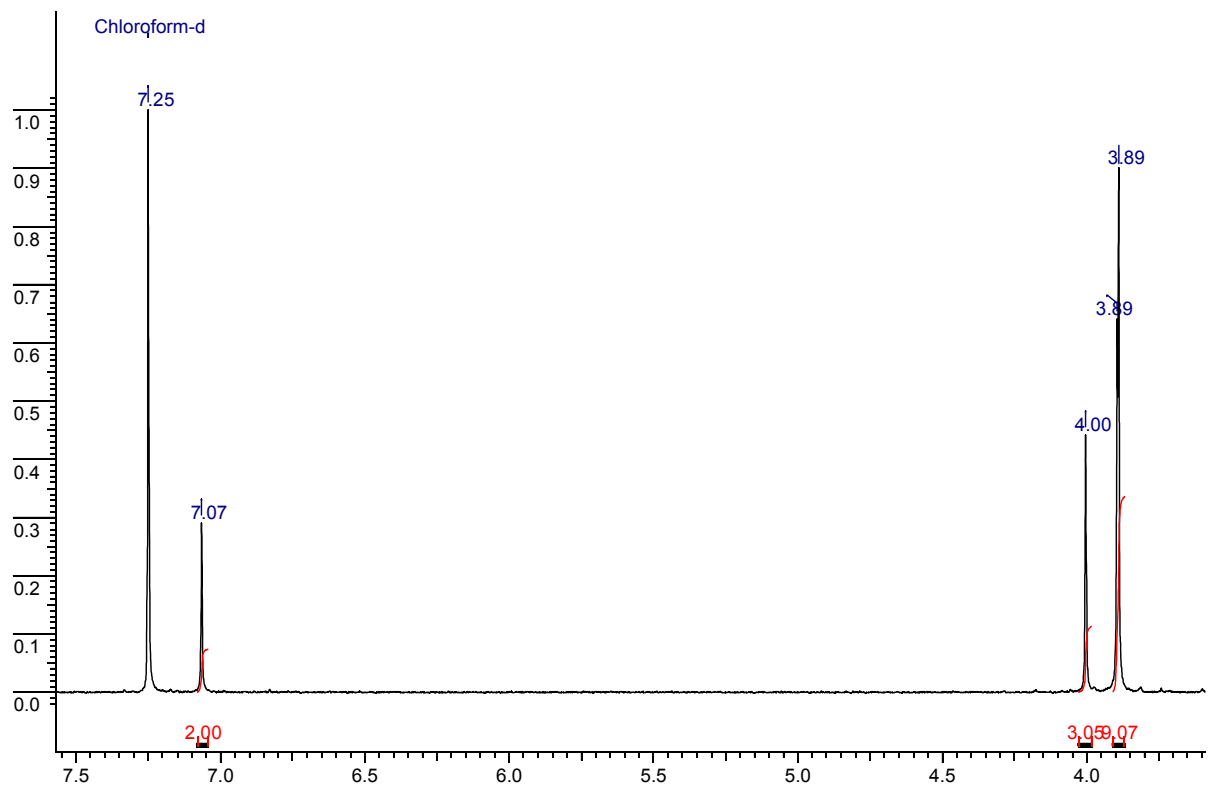
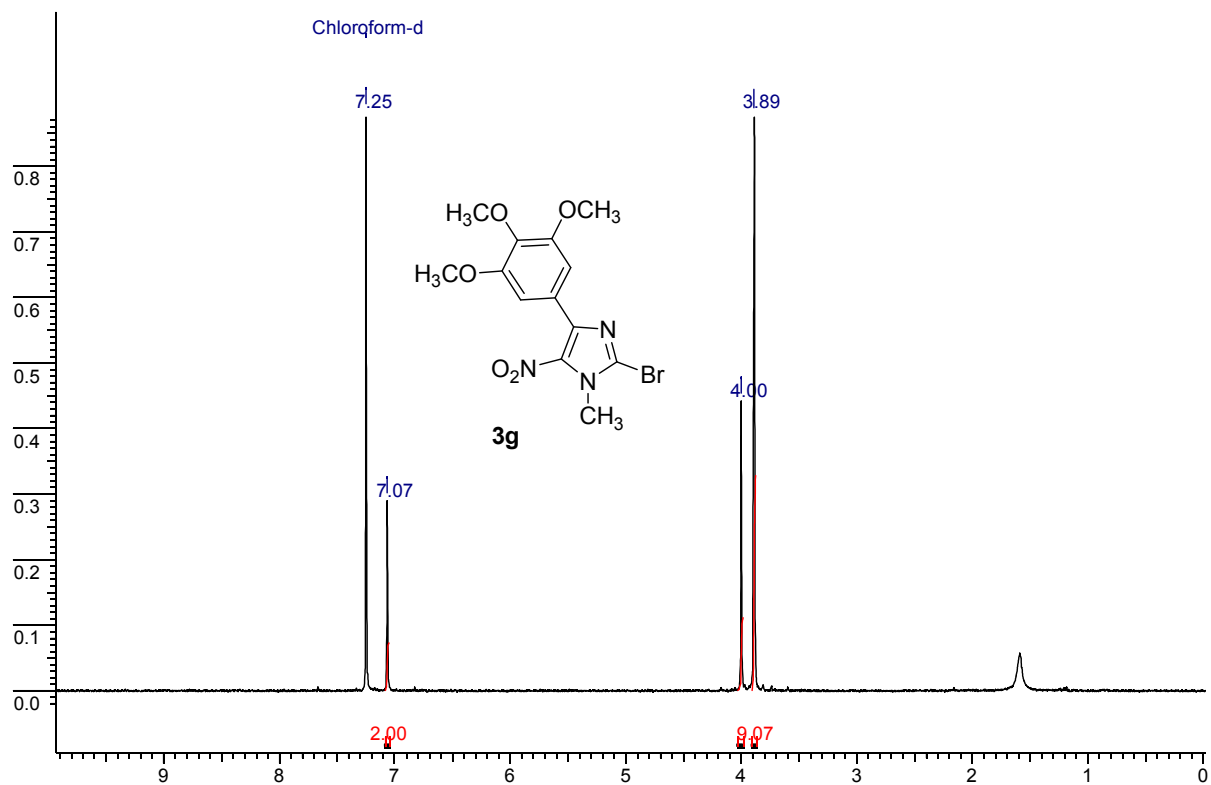


Figure S13. ¹H-NMR spectra of **3g**

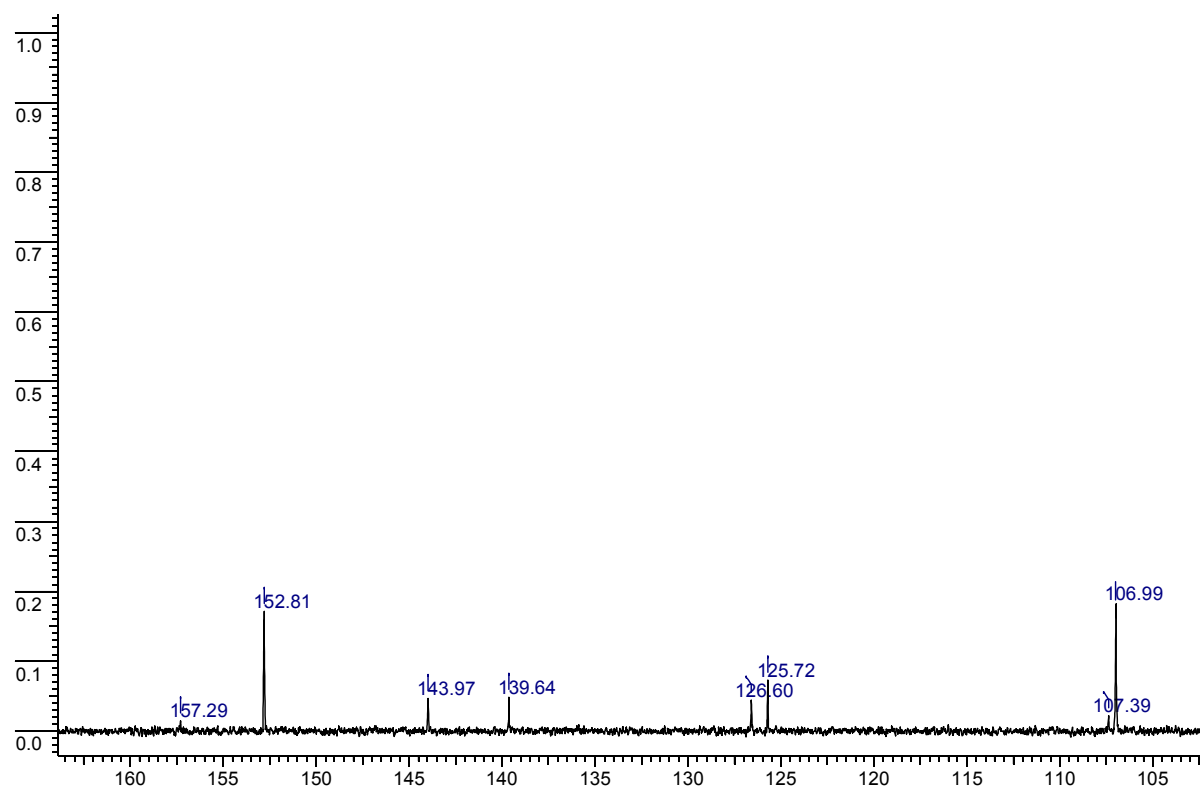
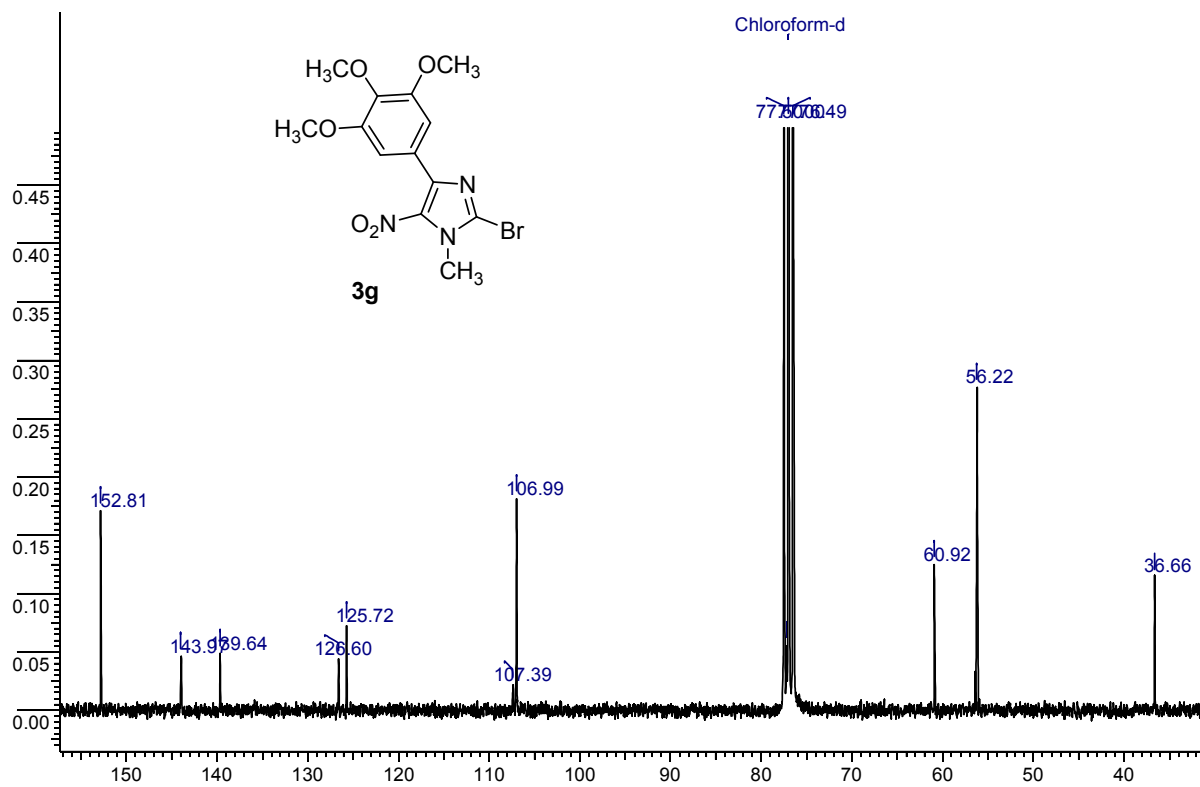


Figure S14. ¹³C-NMR spectra of **3g**

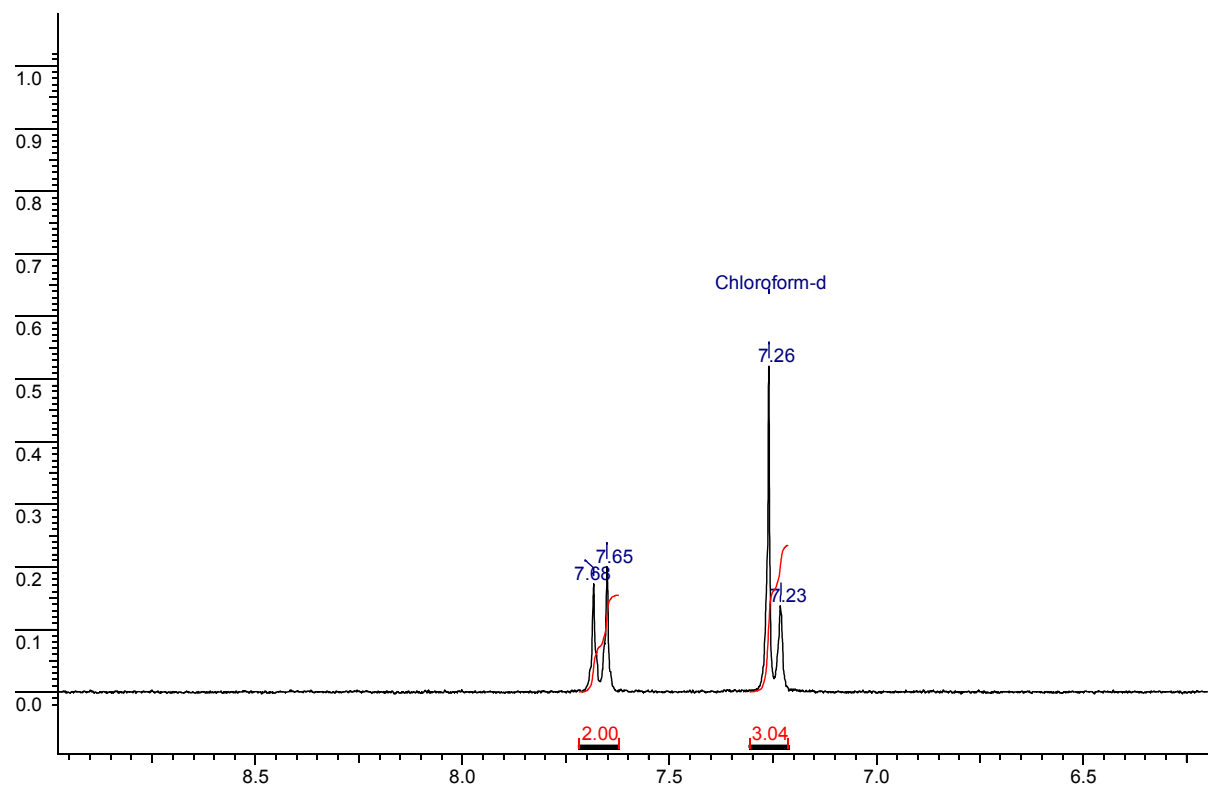
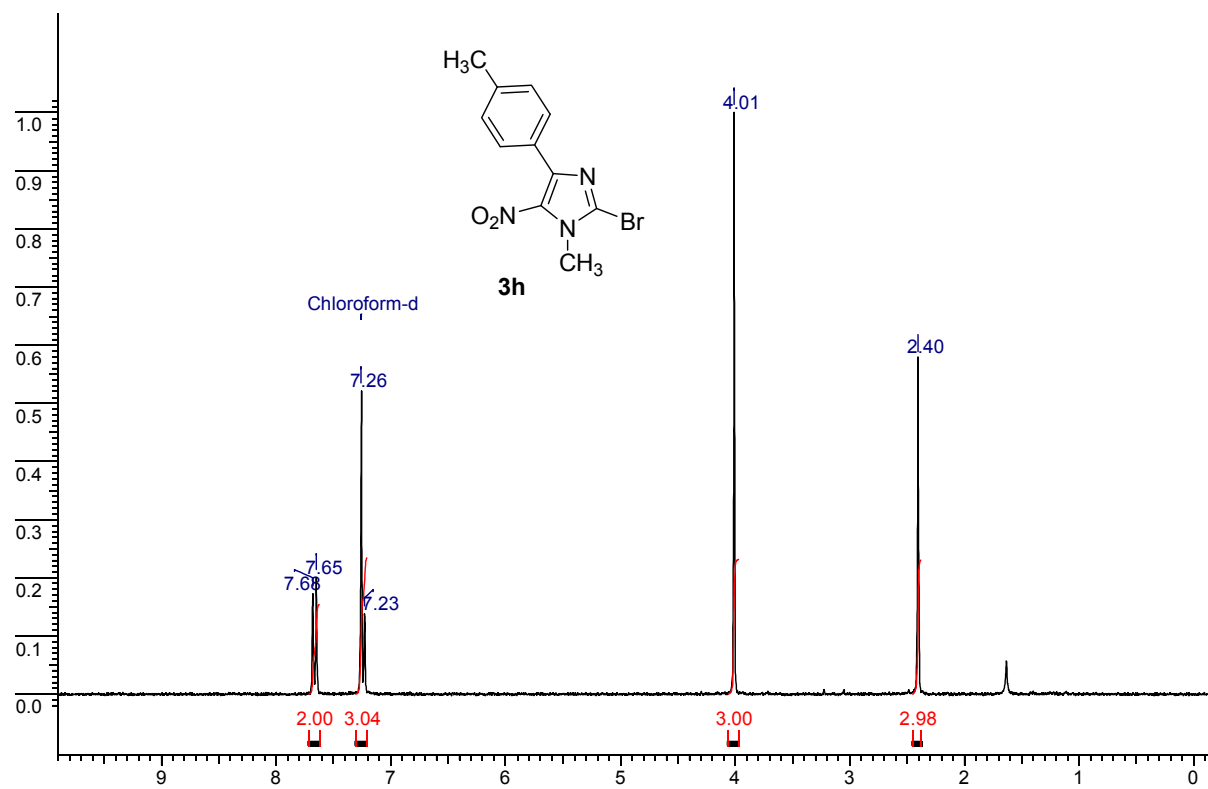


Figure S15. ¹H-NMR spectra of **3h**

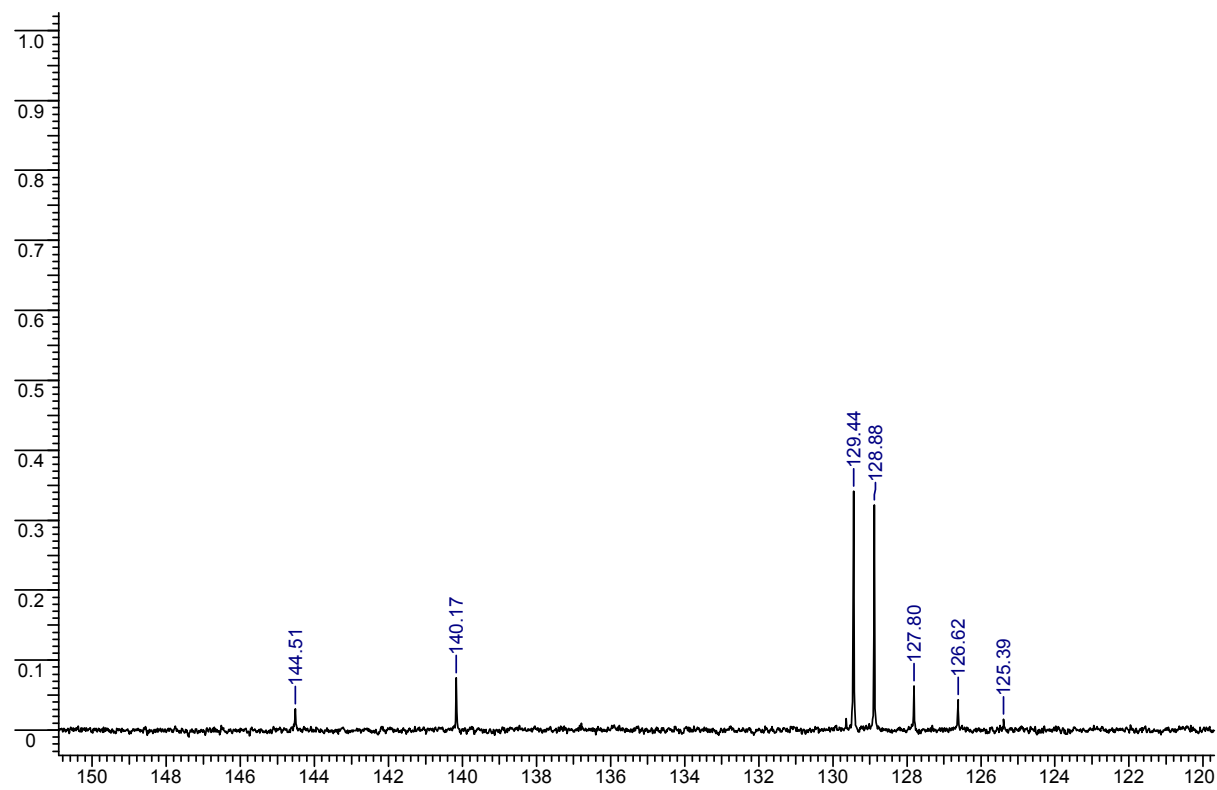
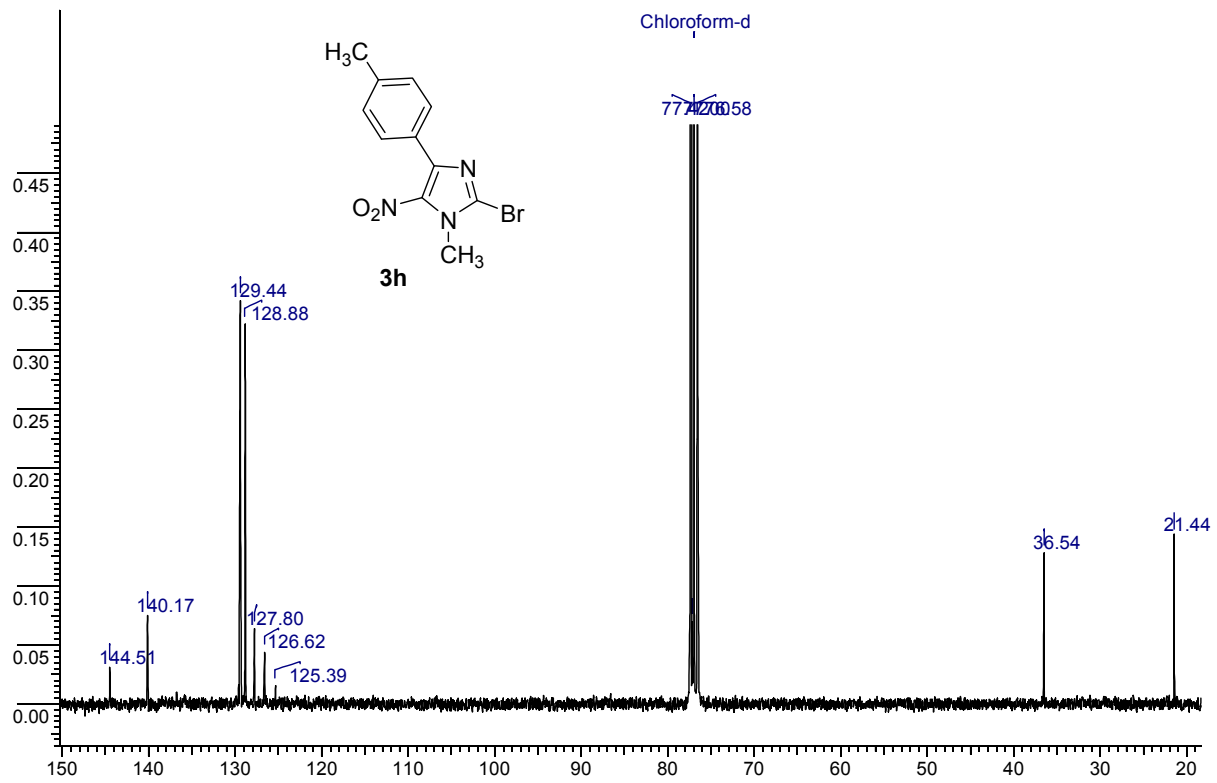


Figure S16. ^{13}C -NMR spectra of **3h**

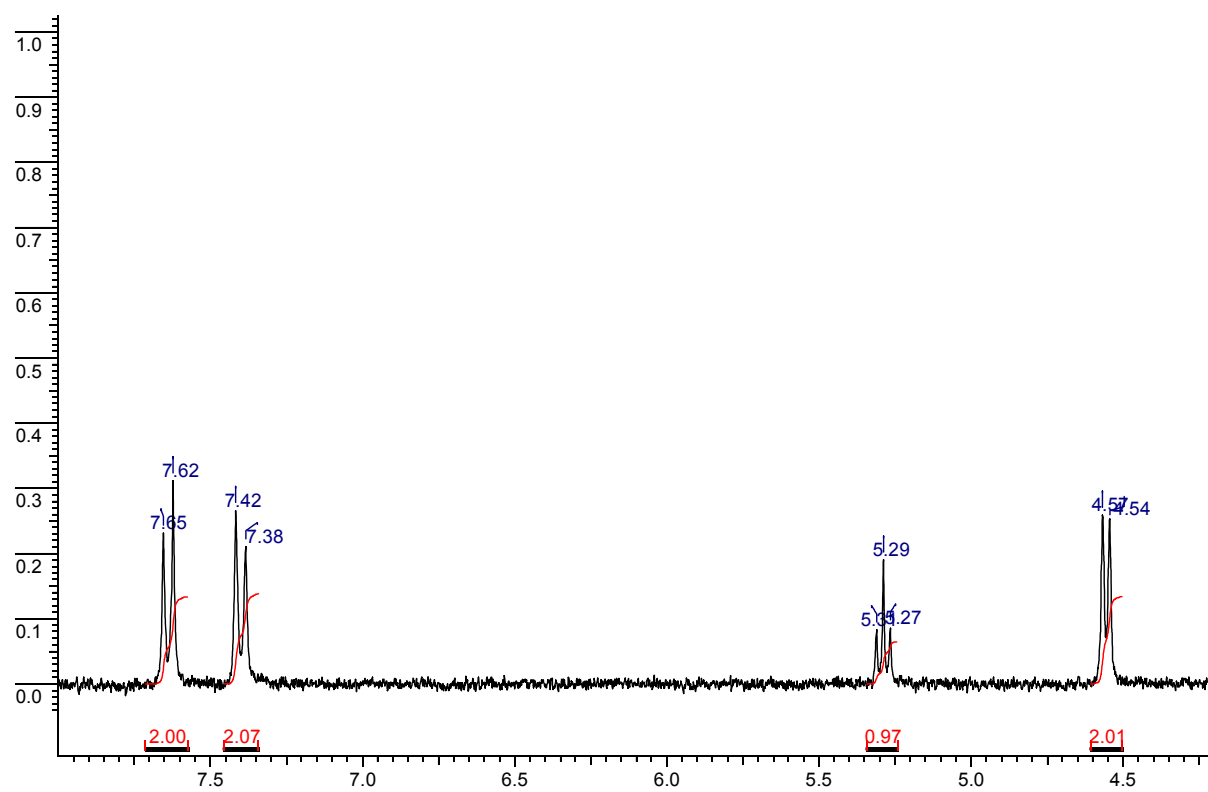
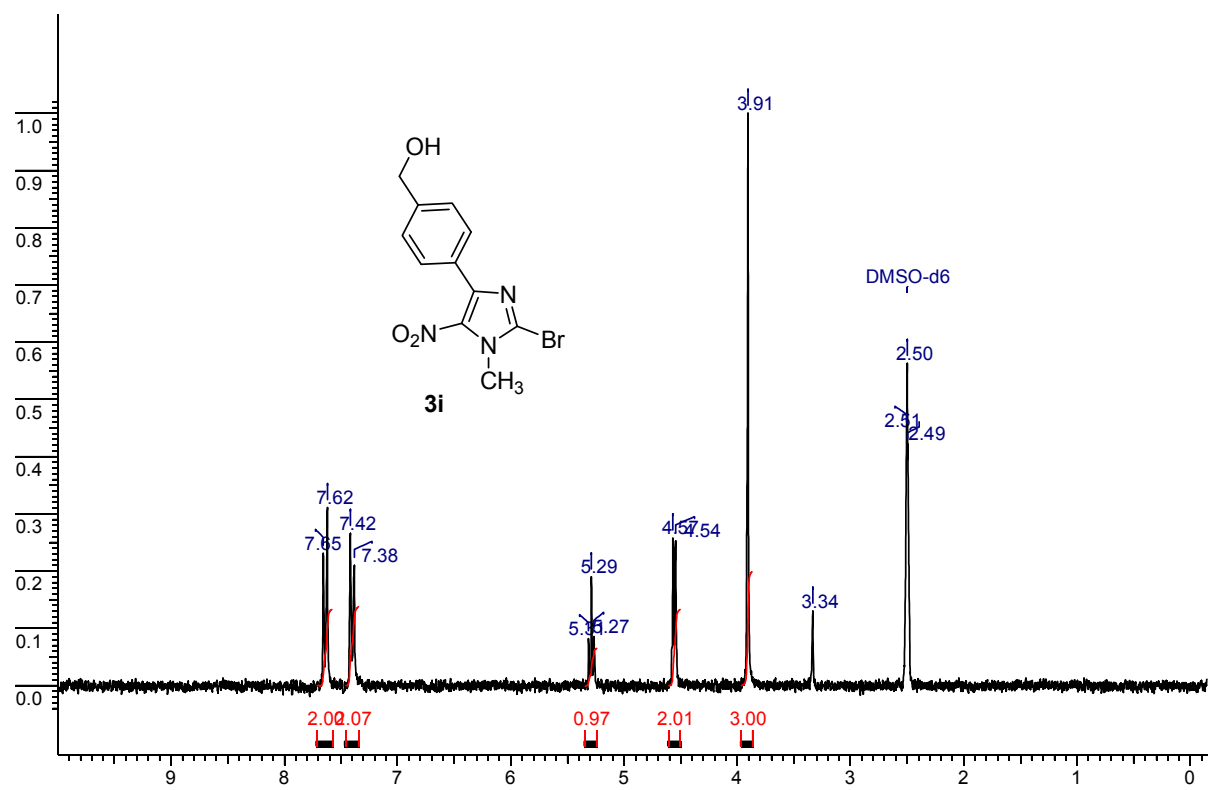


Figure S17. ¹H-NMR spectra of **3i**

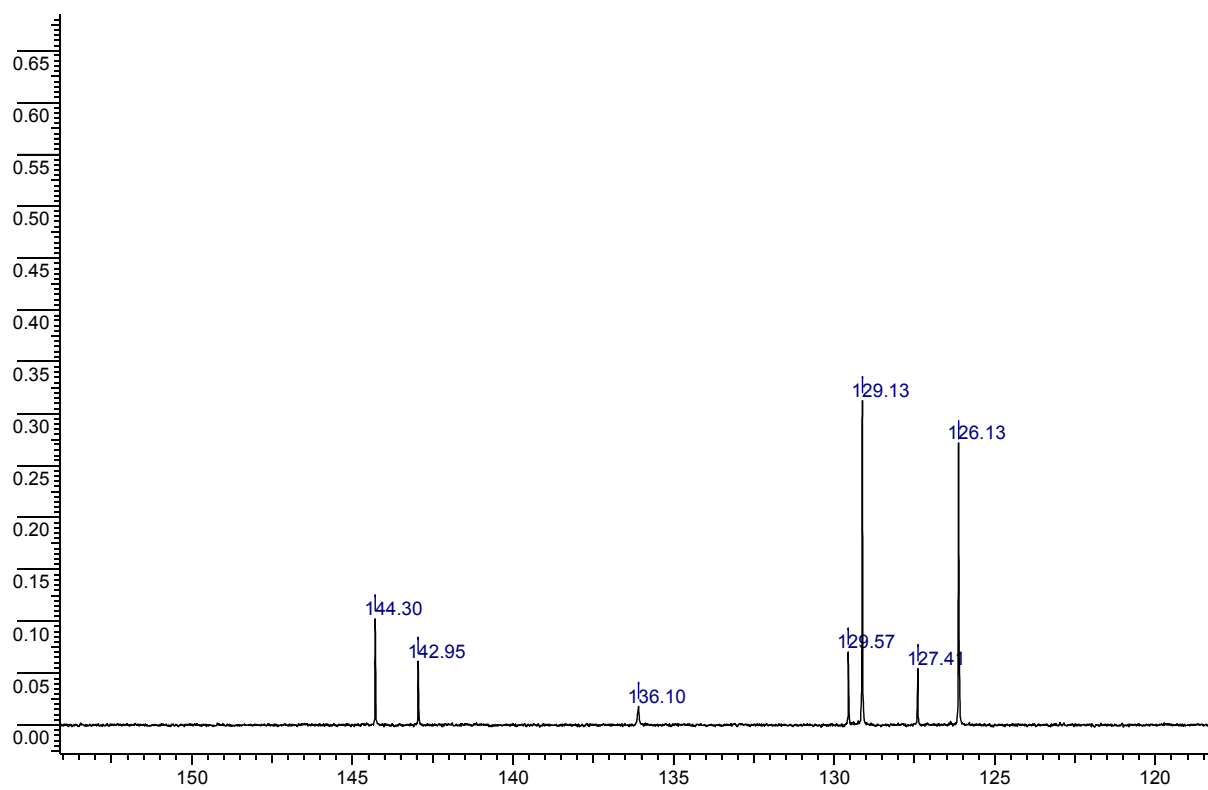
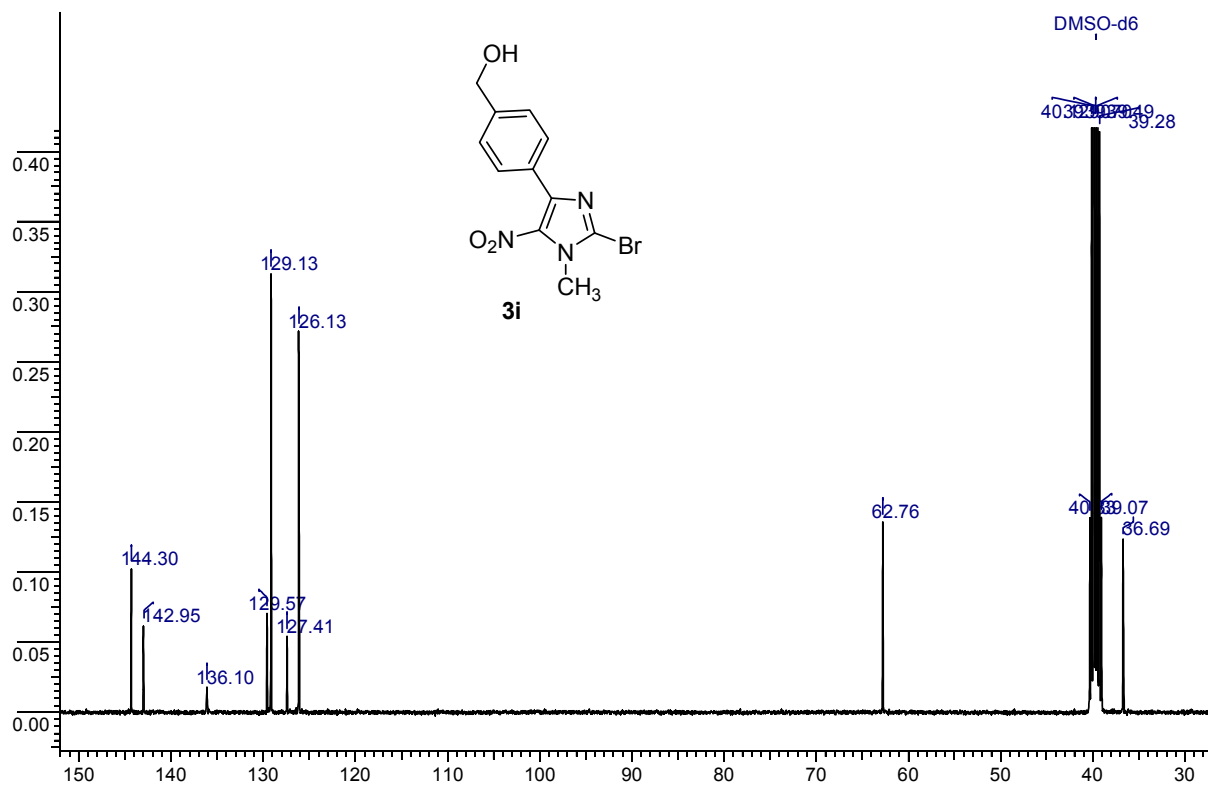


Figure S18. ¹³C-NMR spectra of **3i**

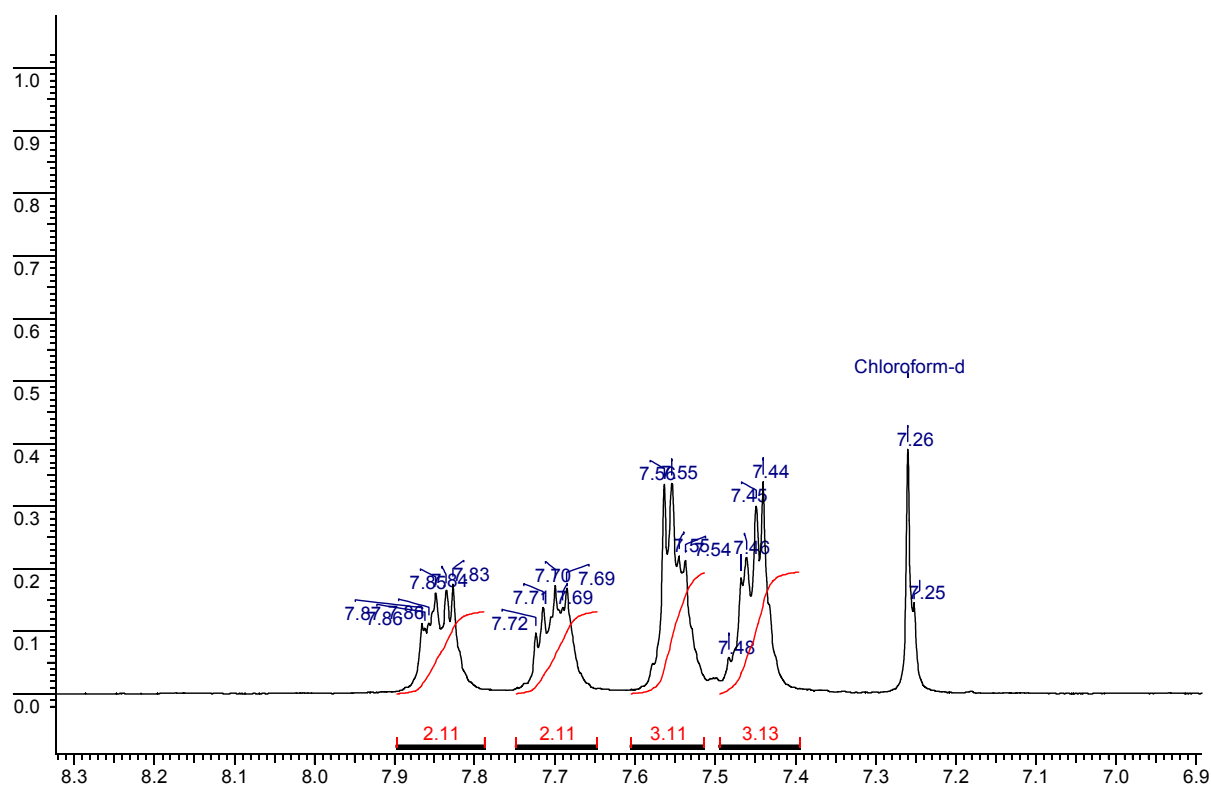
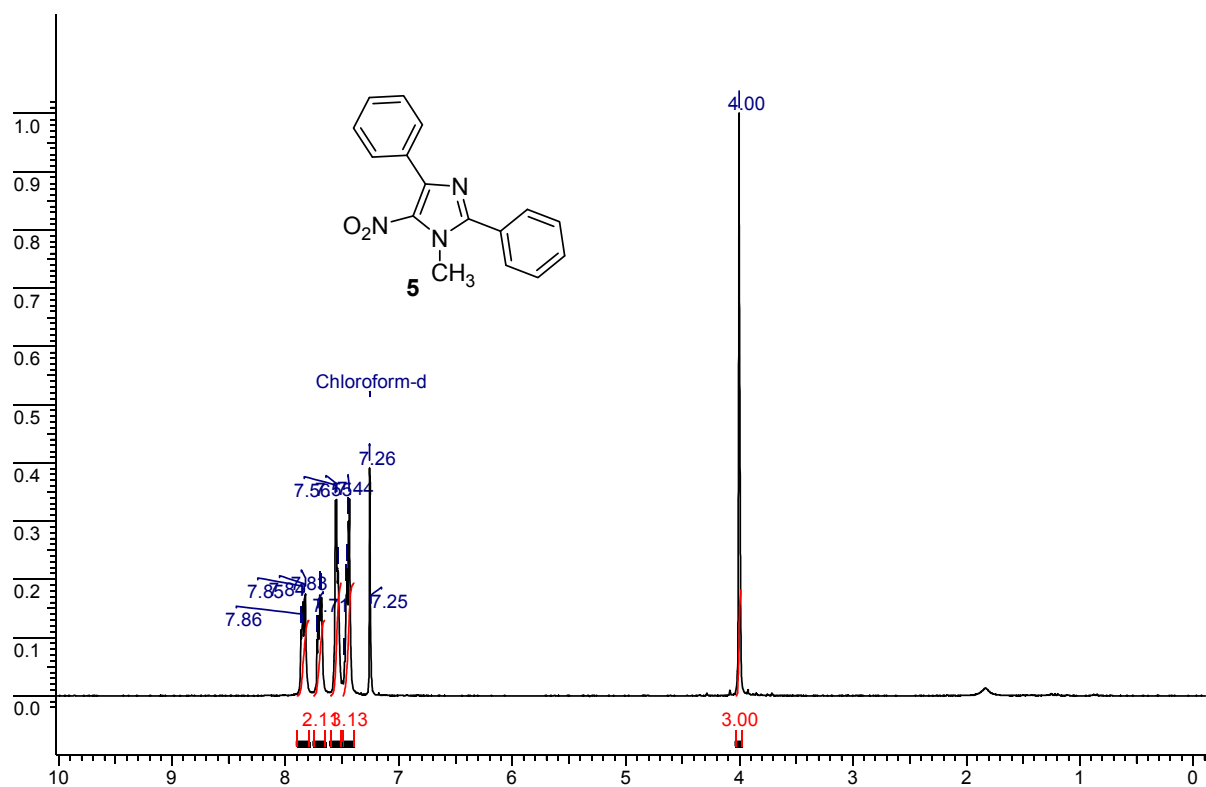


Figure S19. ¹H-NMR spectra of **5**

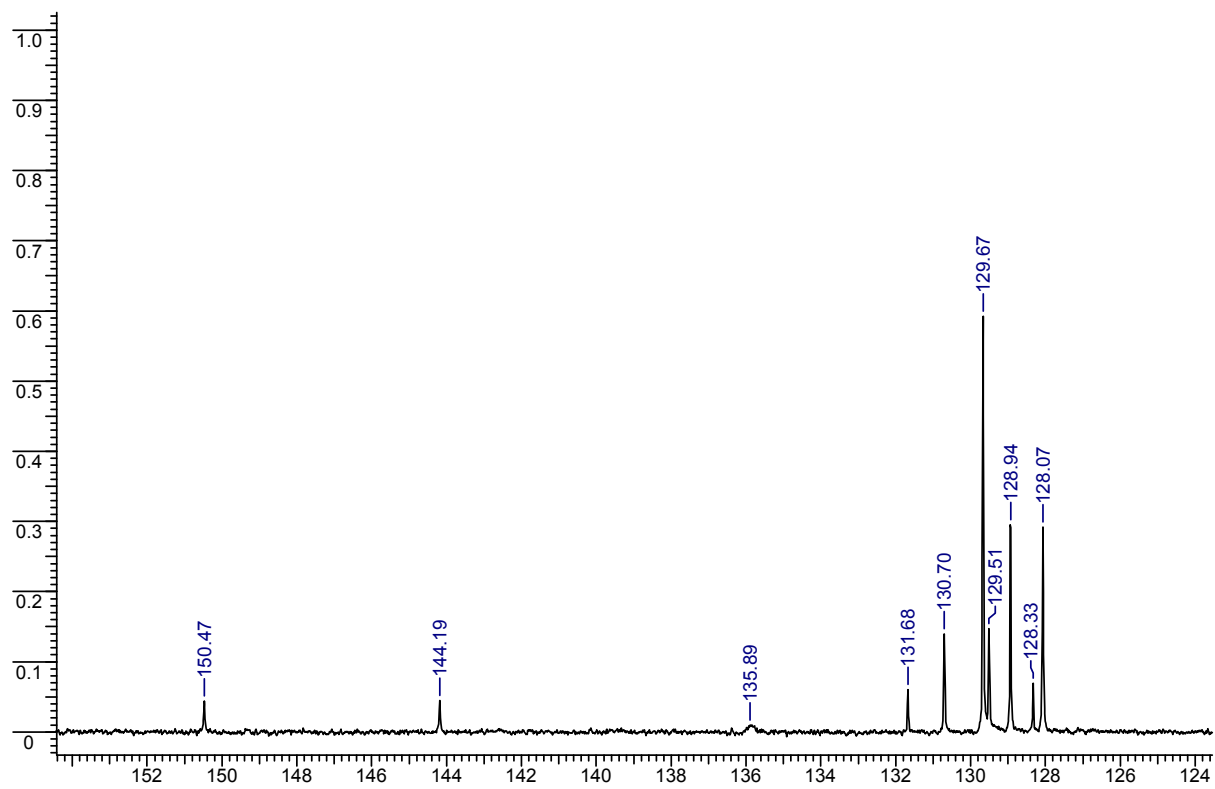
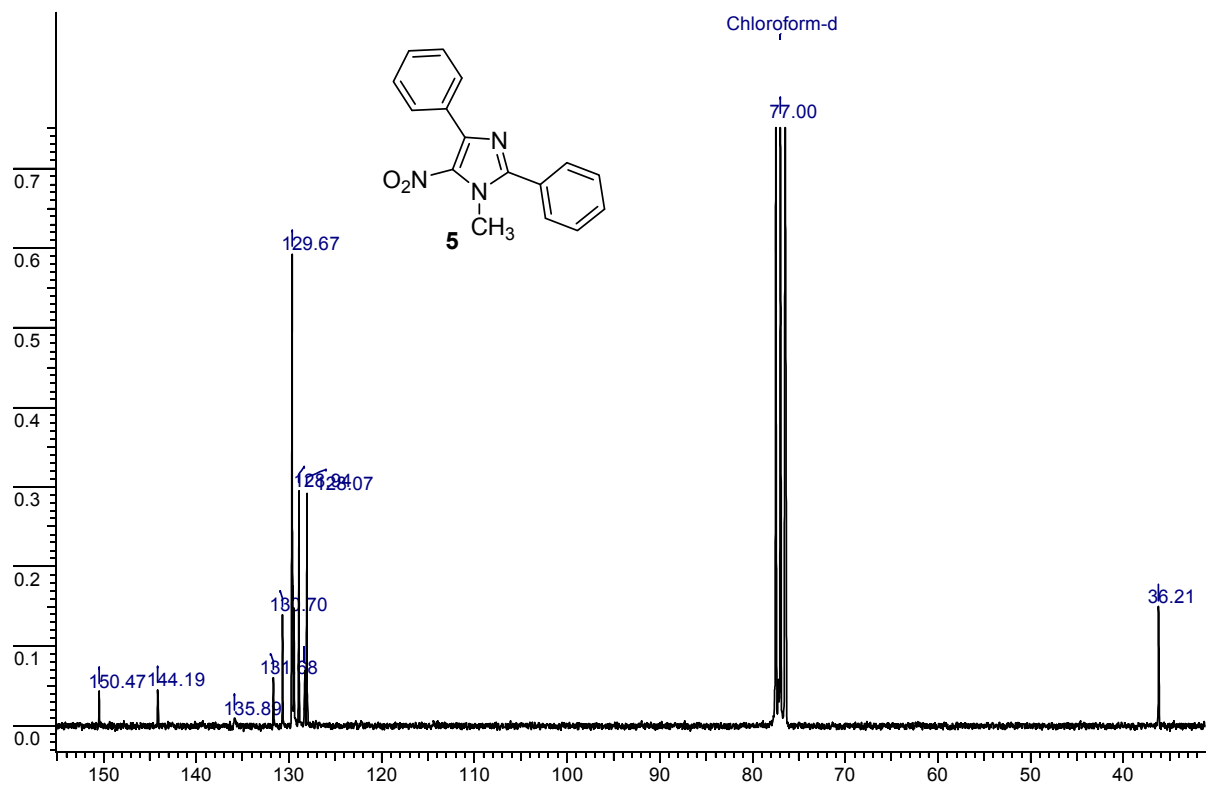


Figure S20. ^{13}C -NMR spectra of **5**

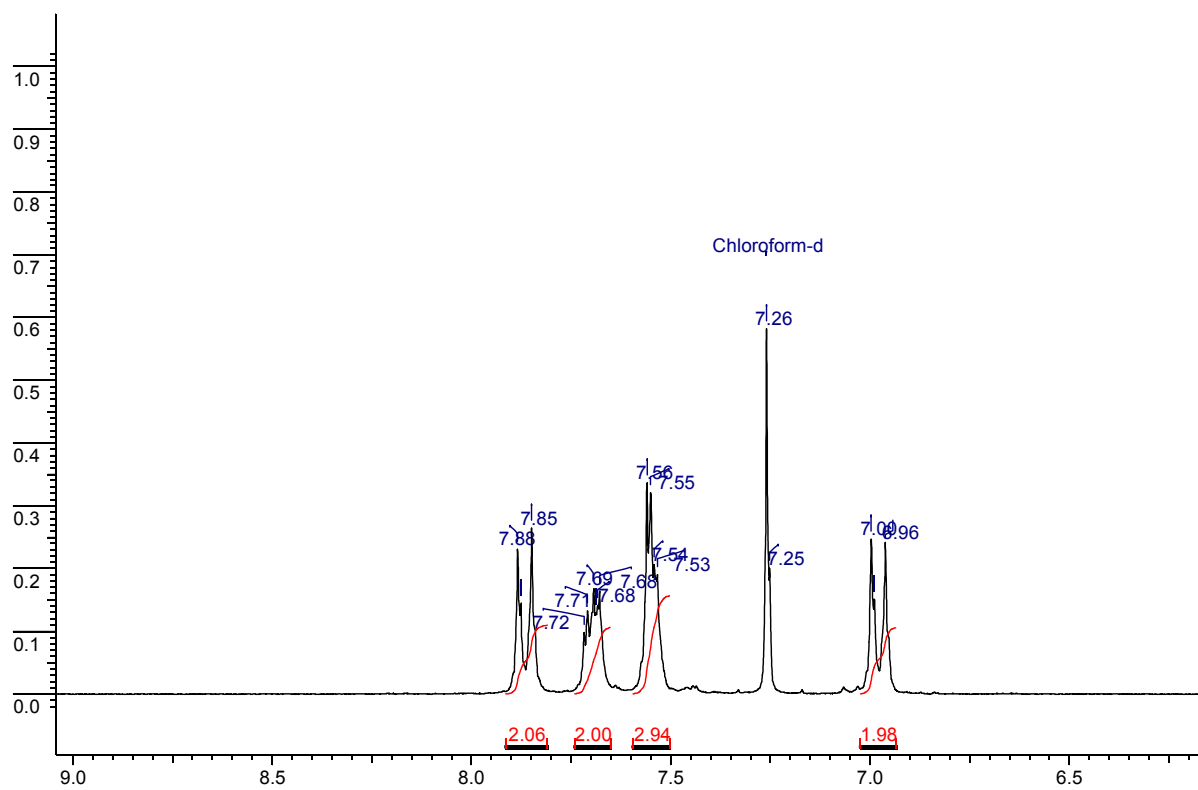
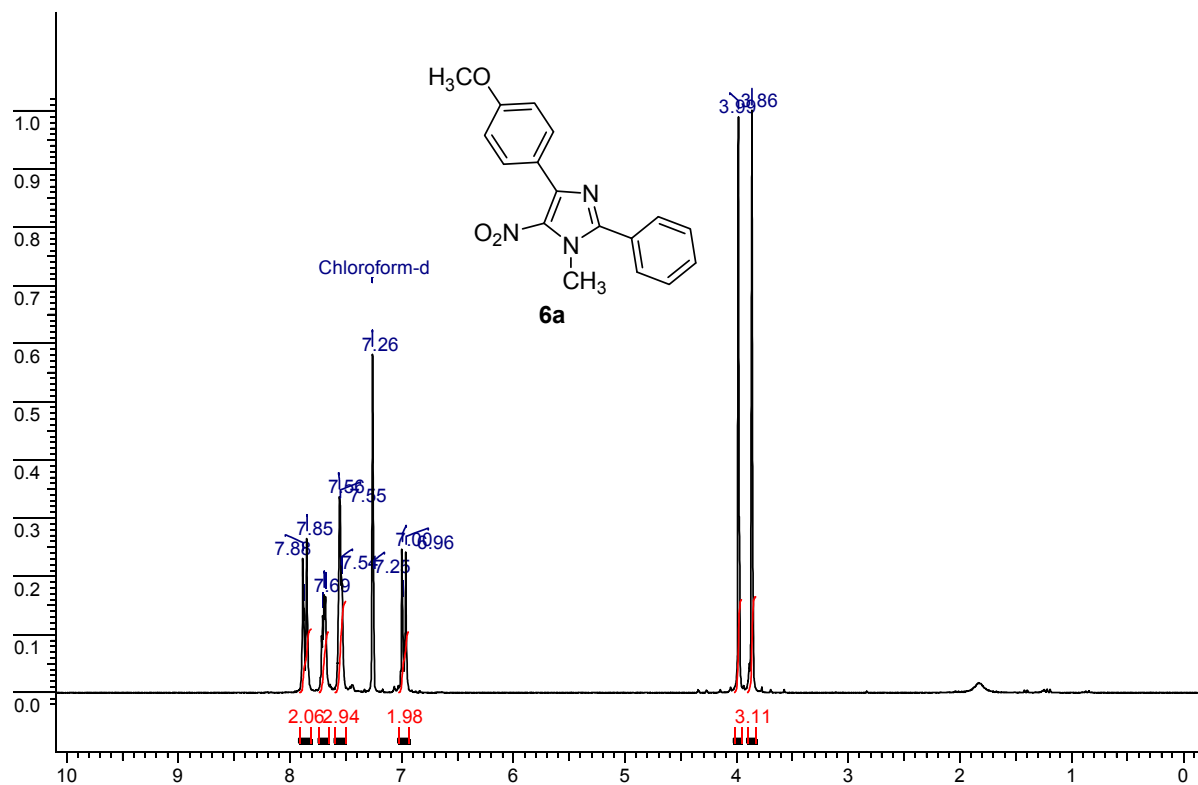


Figure S21. ¹H-NMR spectra of **6a**

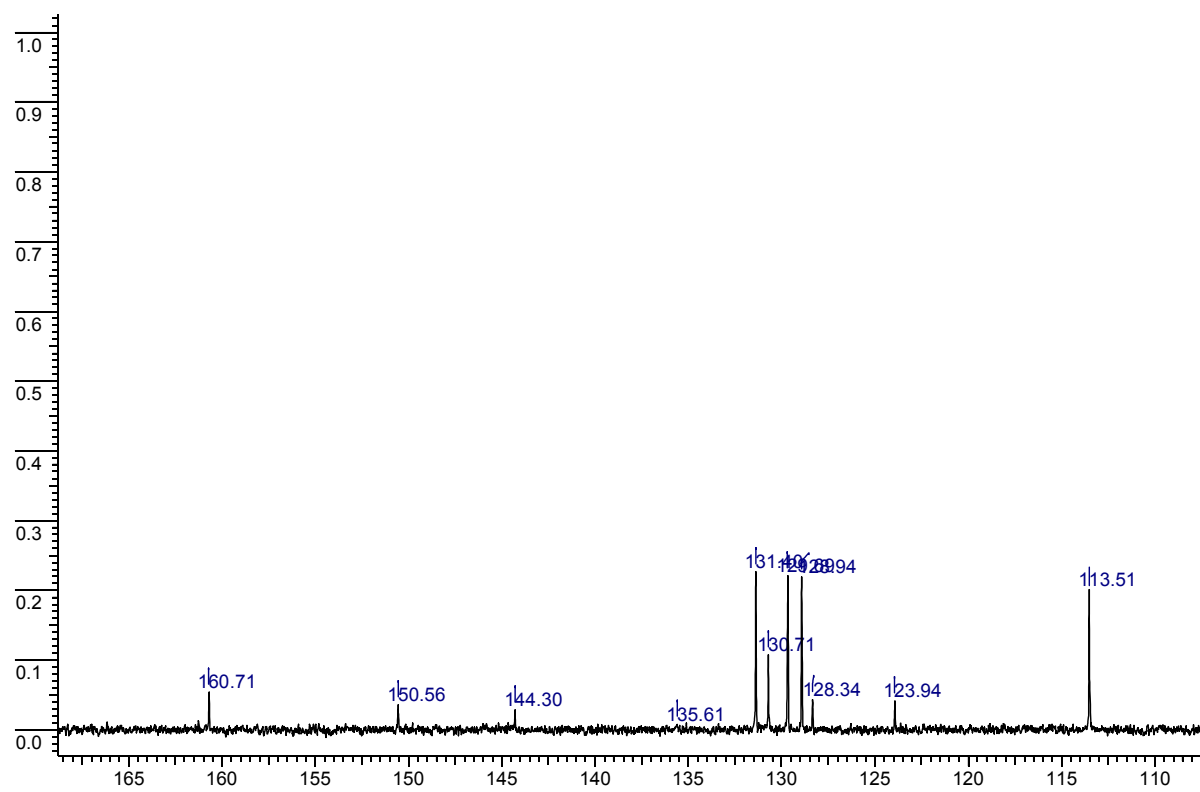
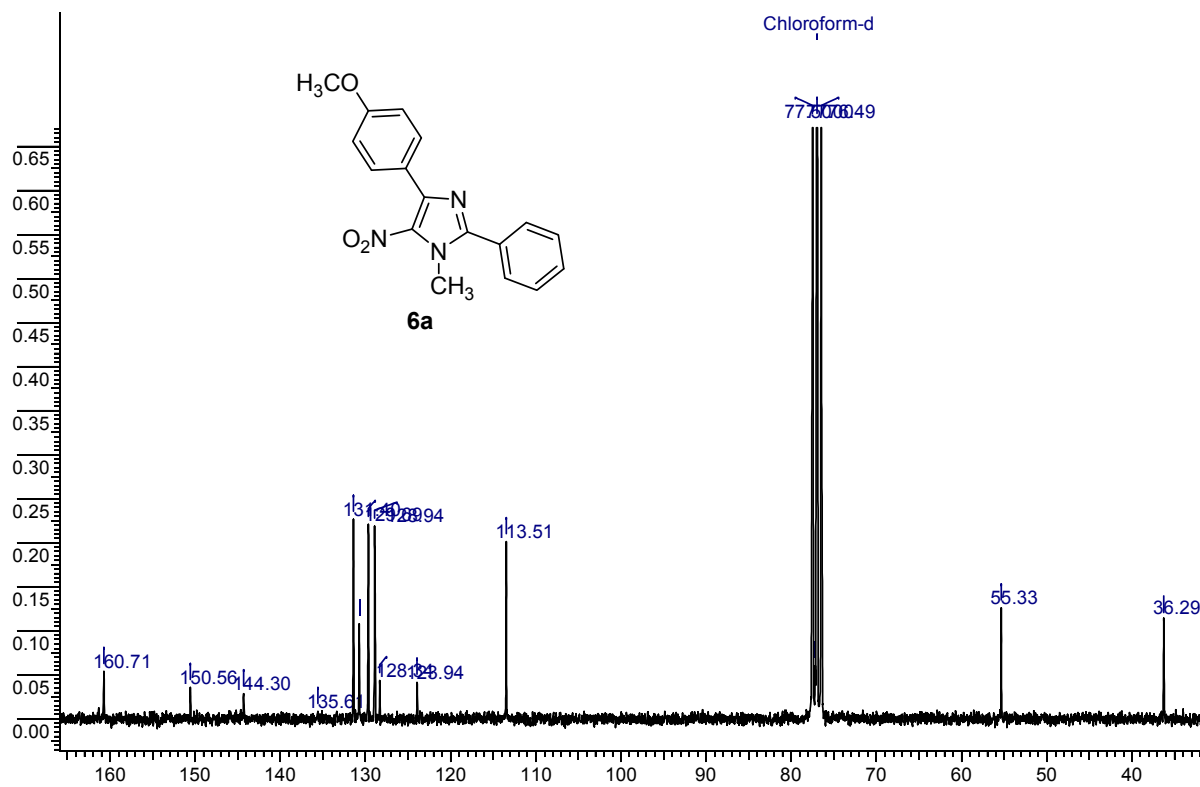


Figure S22. ¹³C-NMR spectra of **6a**

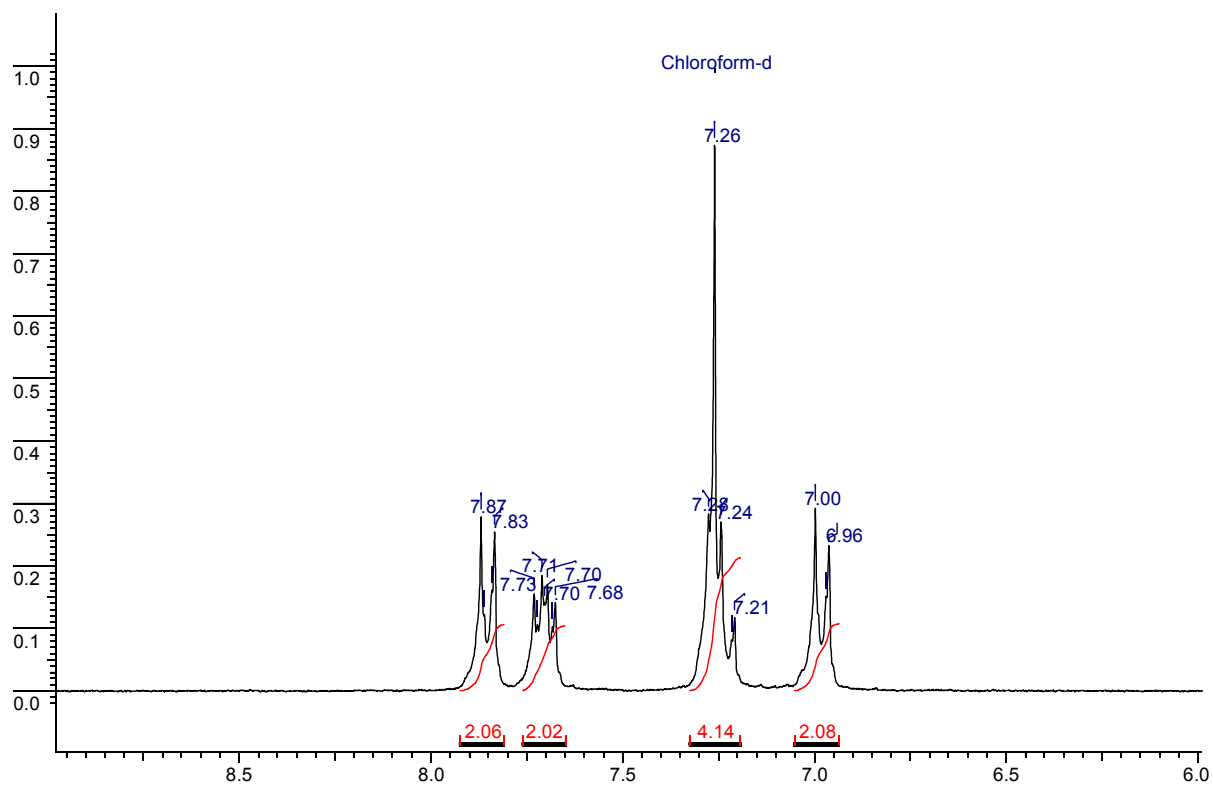
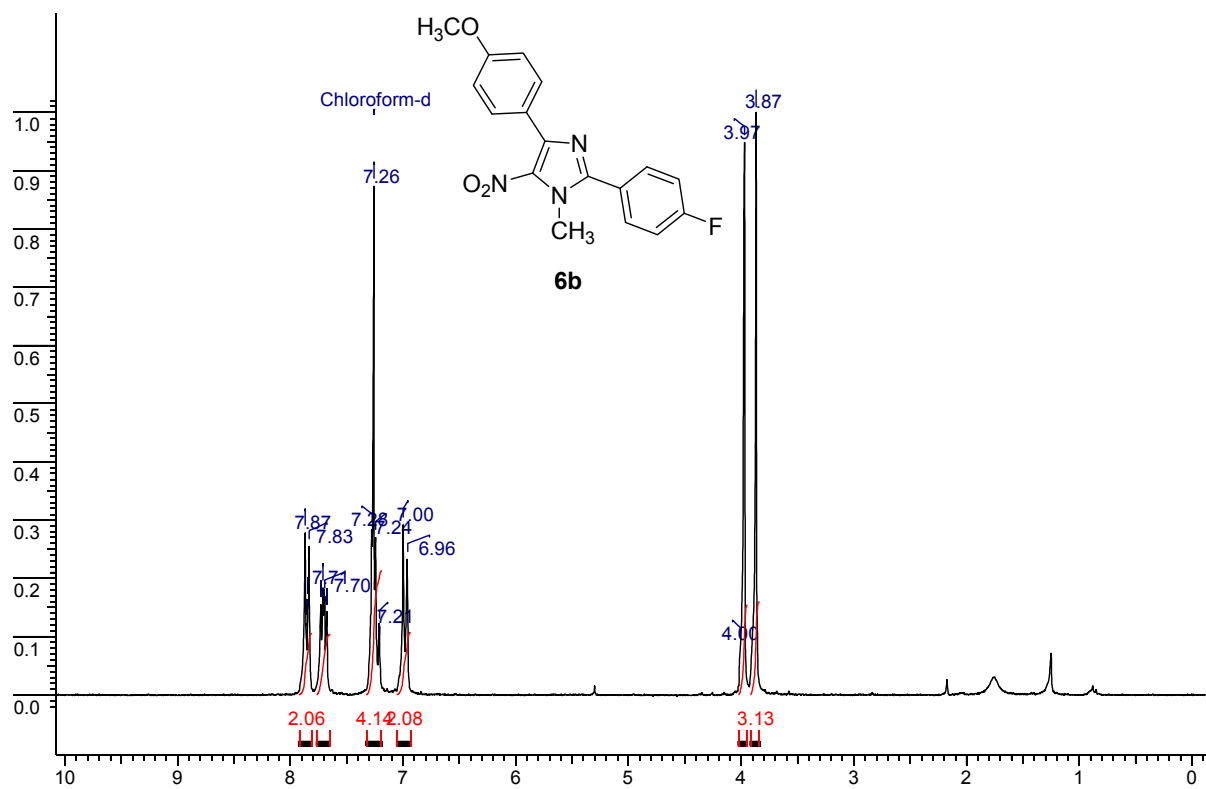


Figure S23. ¹H-NMR spectra of **6b**

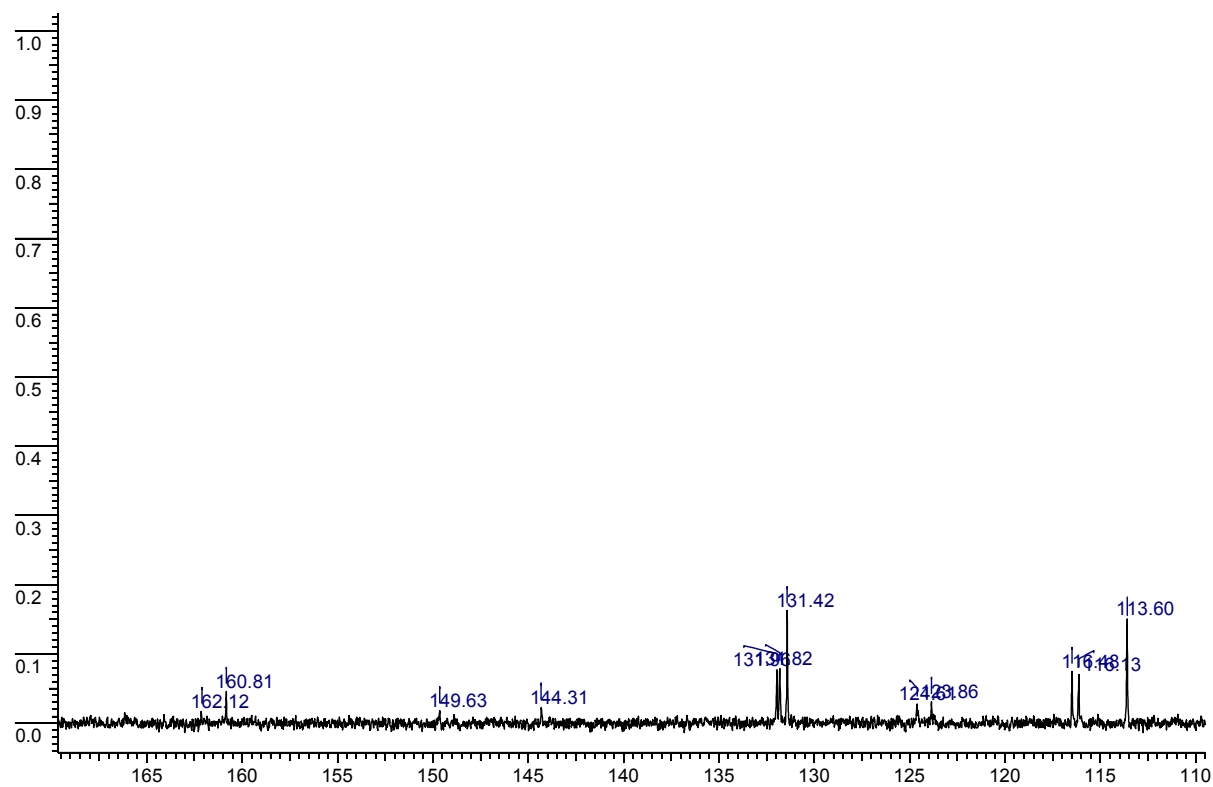
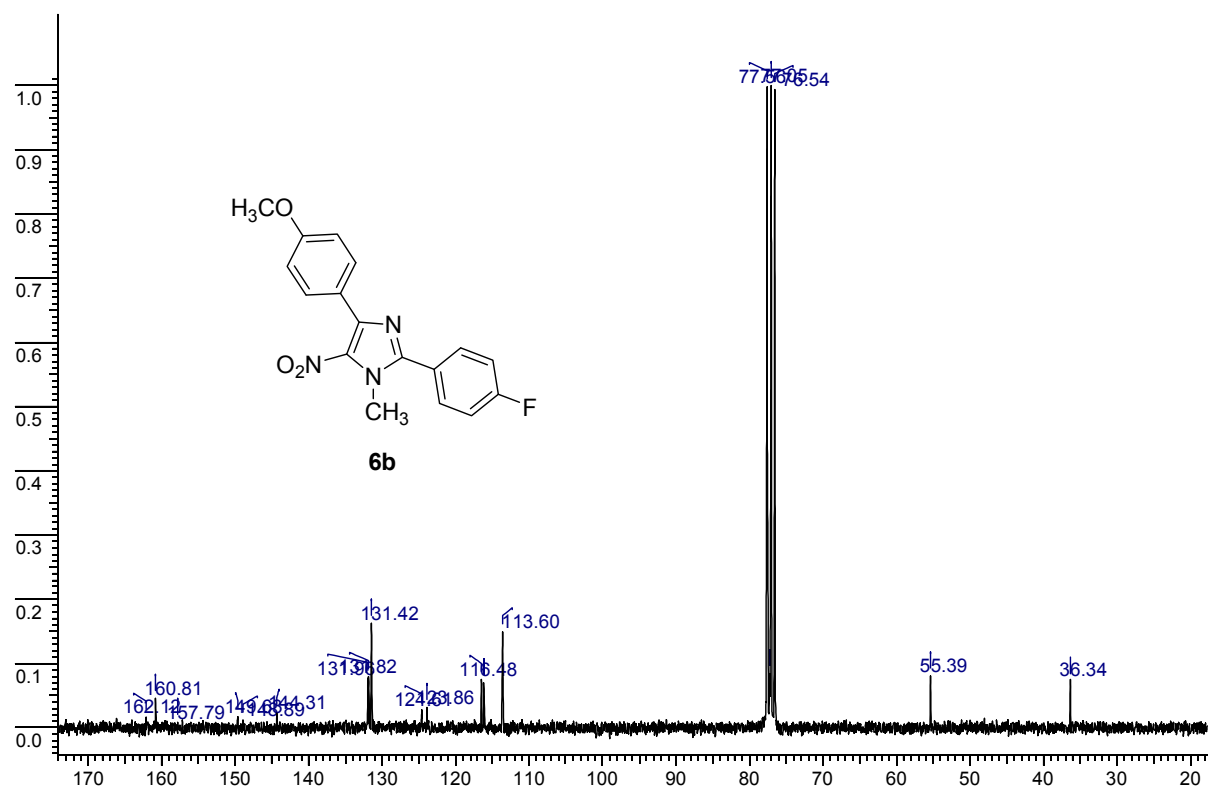


Figure S24. ^{13}C -NMR spectra of **6b**

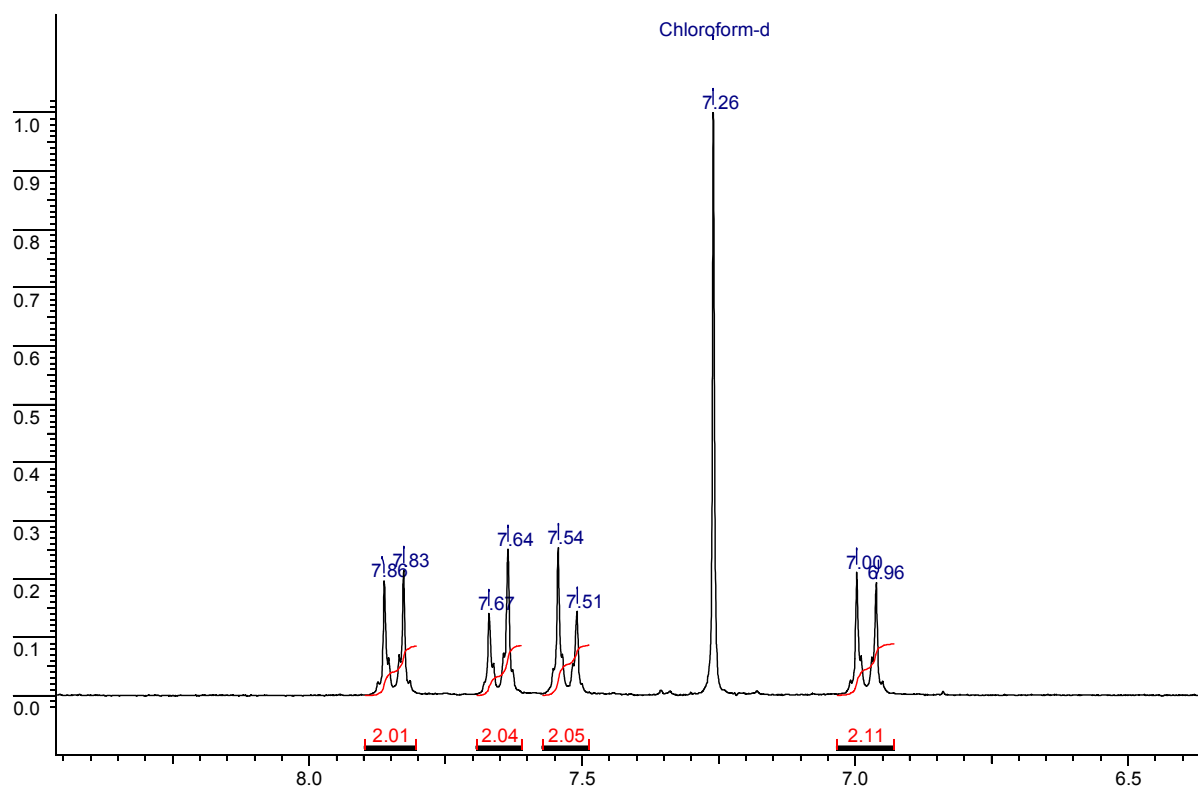
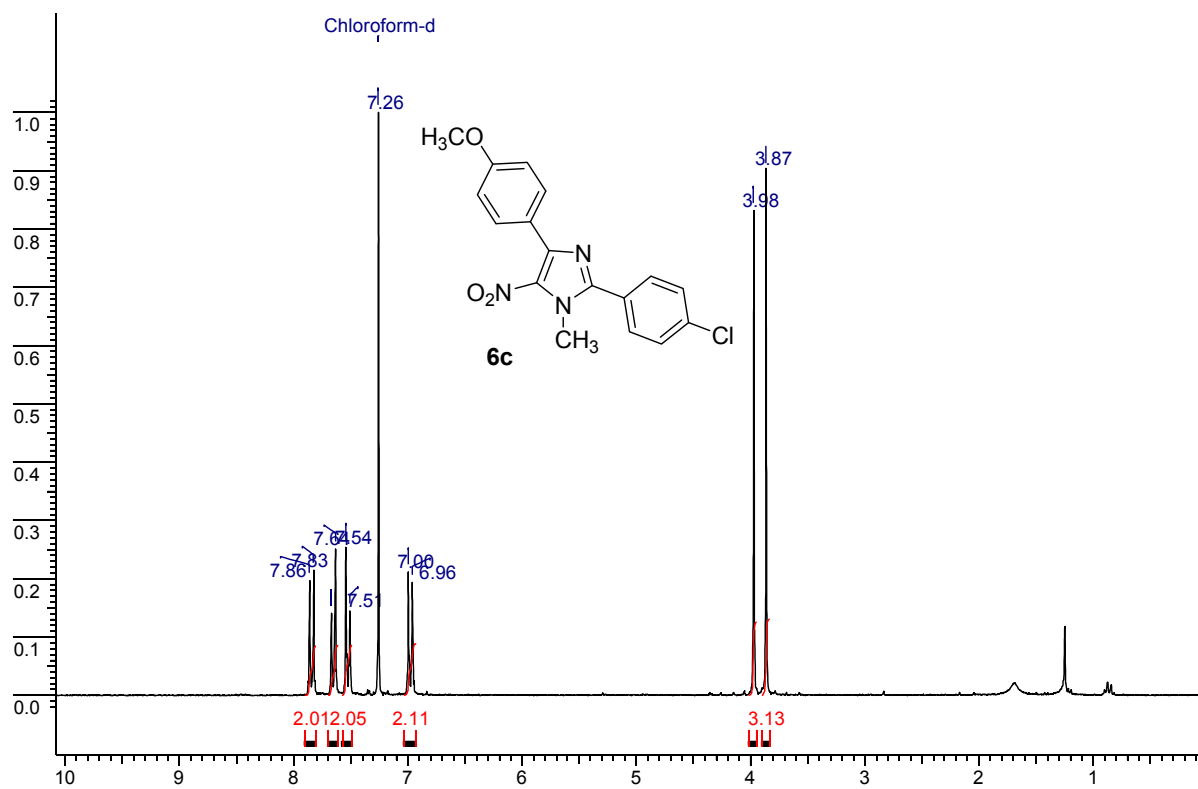


Figure S25. ¹H-NMR spectra of **6c**

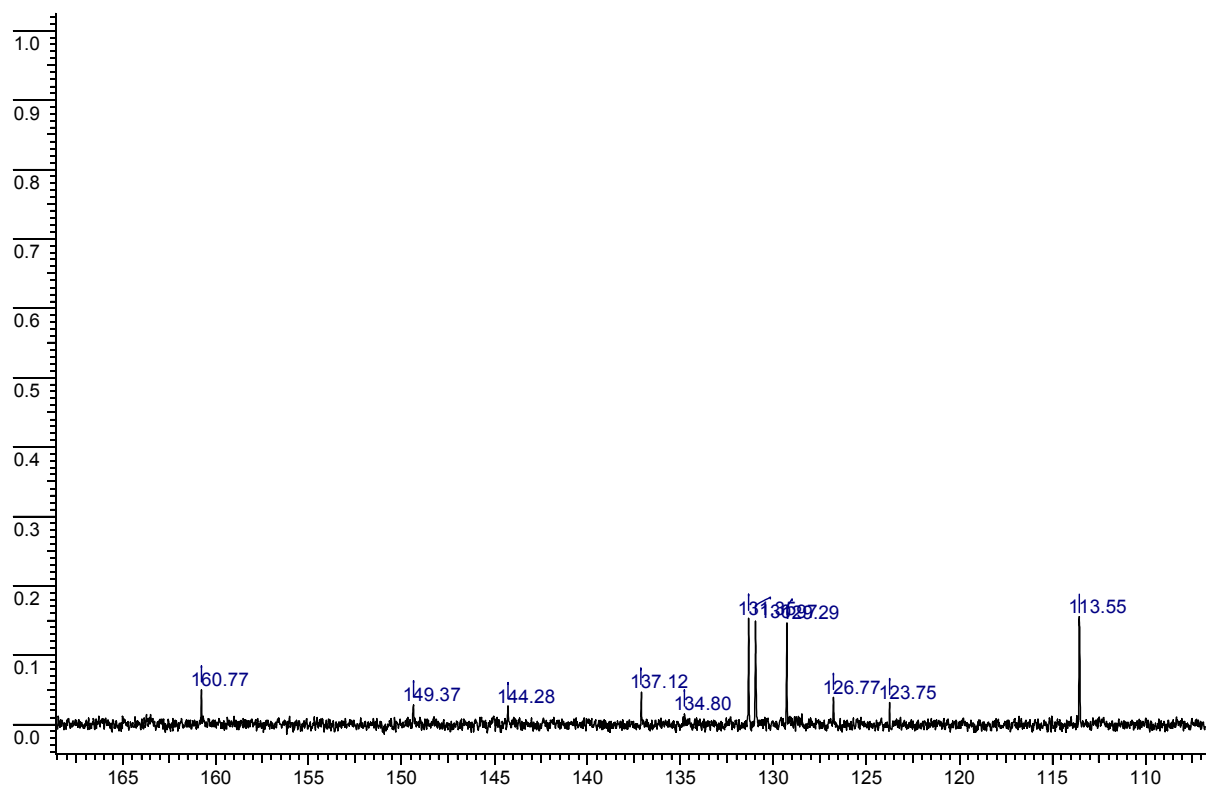
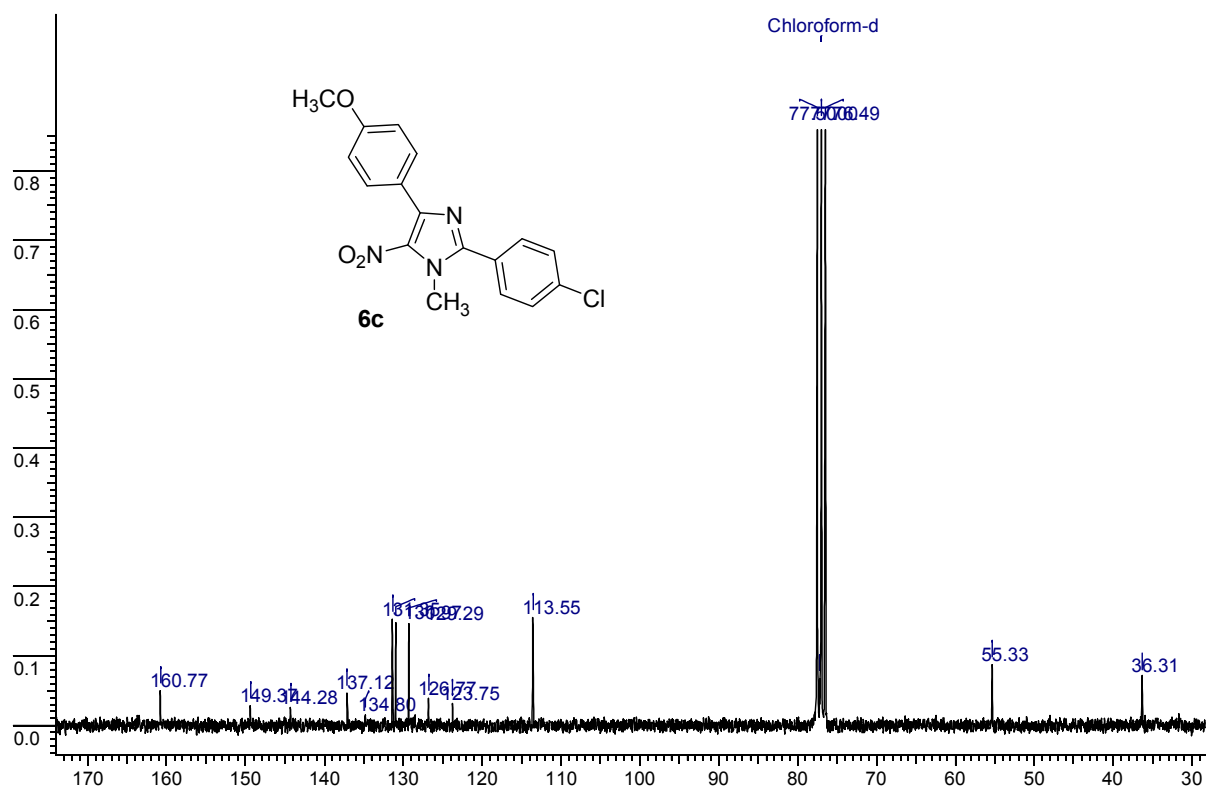


Figure S26. ¹³C-NMR spectra of **6c**

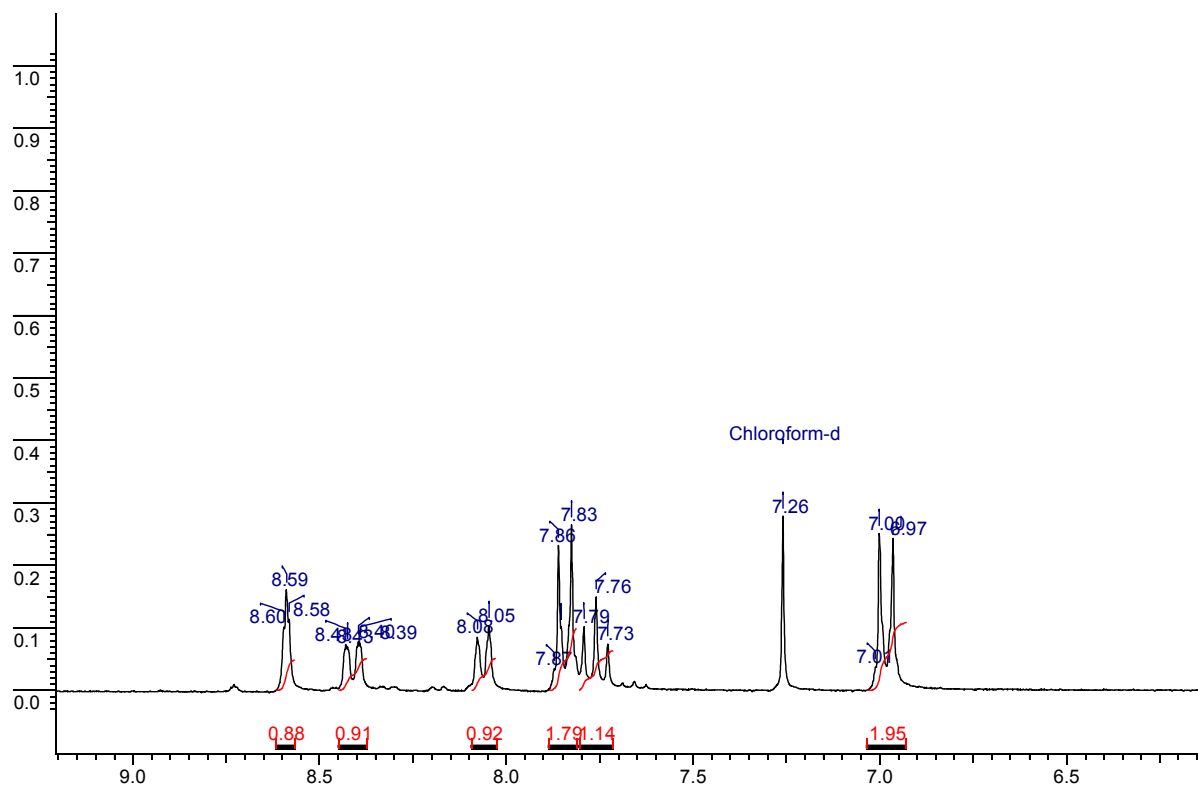
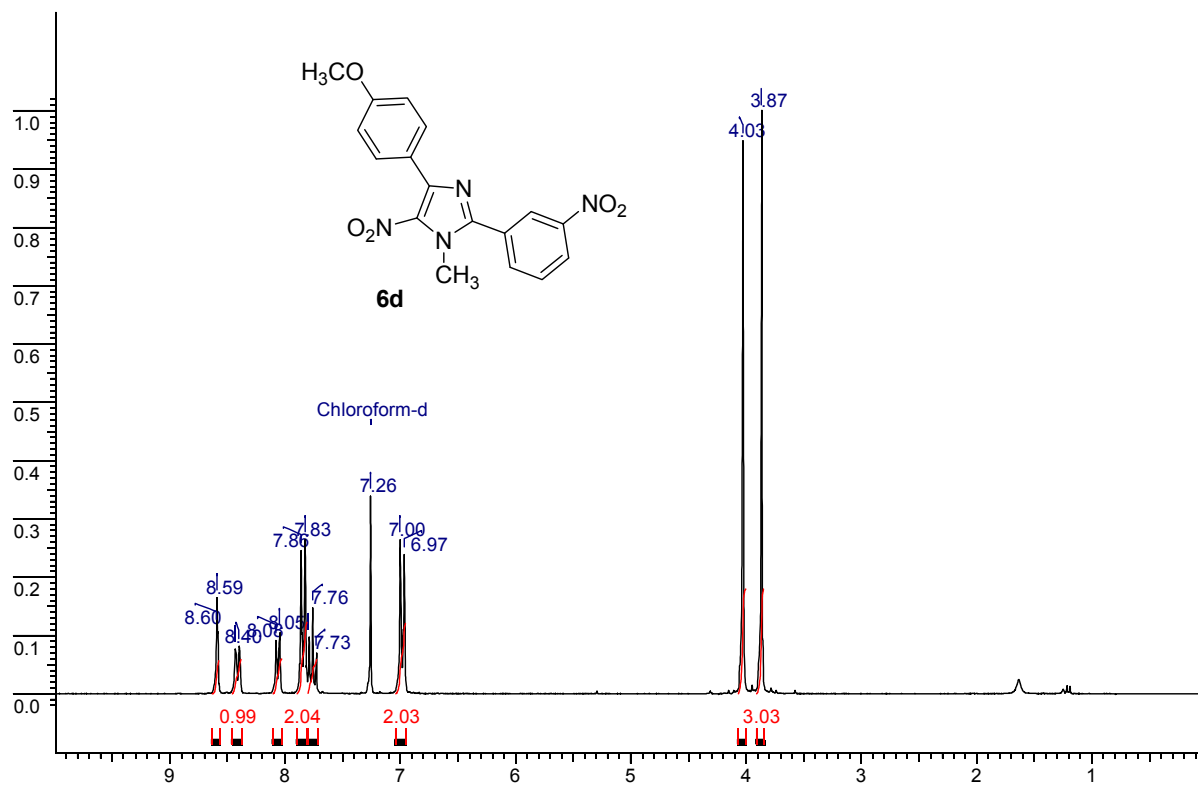


Figure S27. ¹H-NMR spectra of **6d**

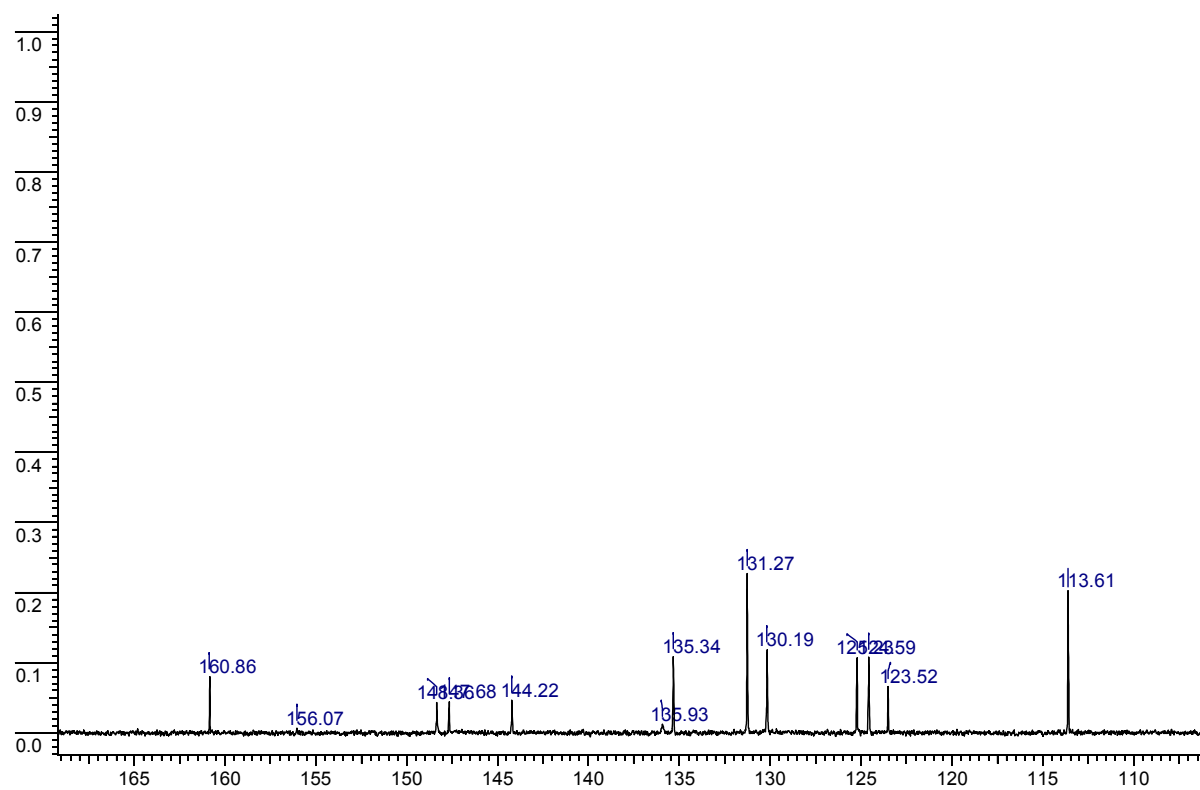
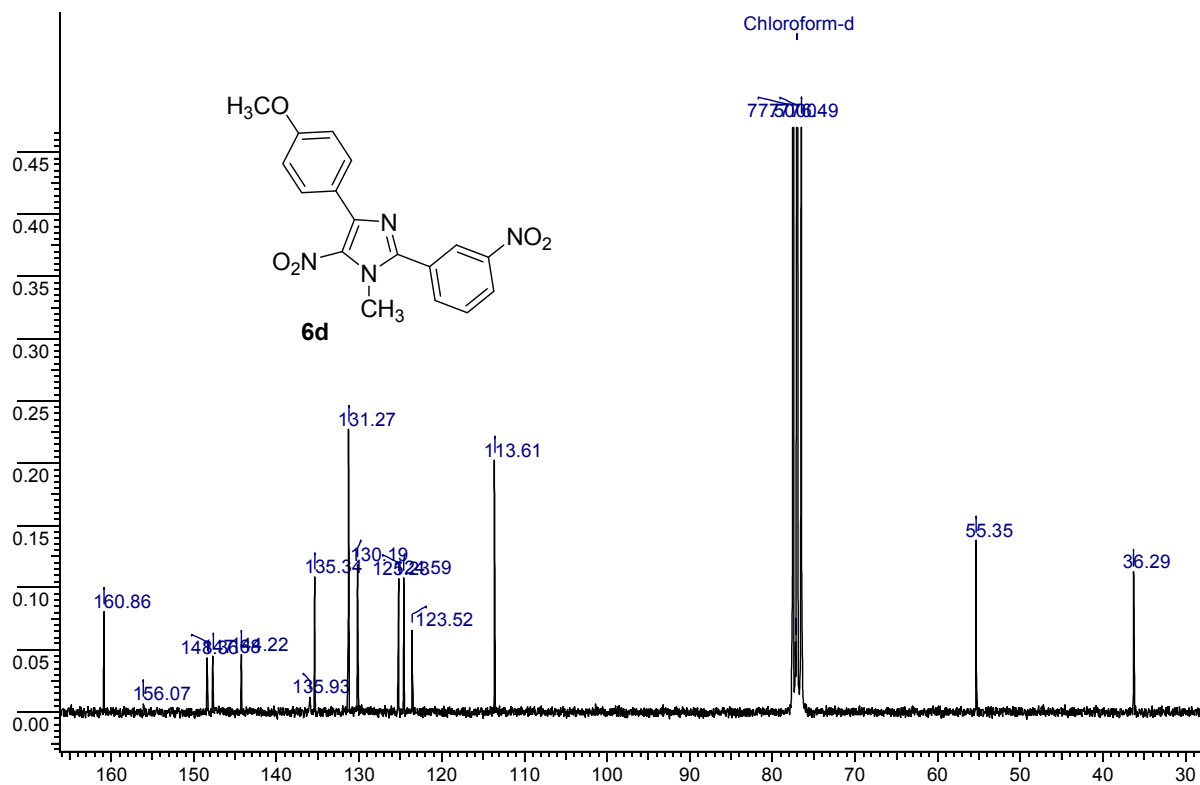


Figure S28. ^{13}C -NMR spectra of **6d**

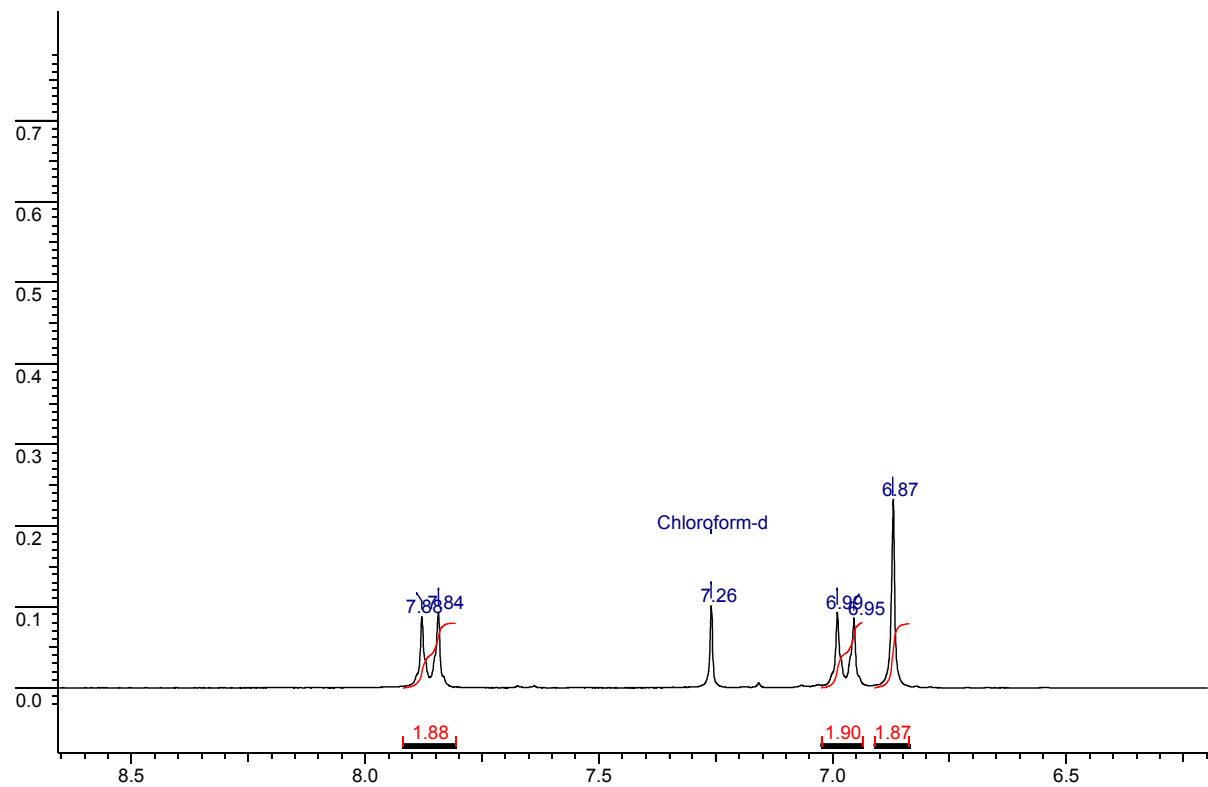
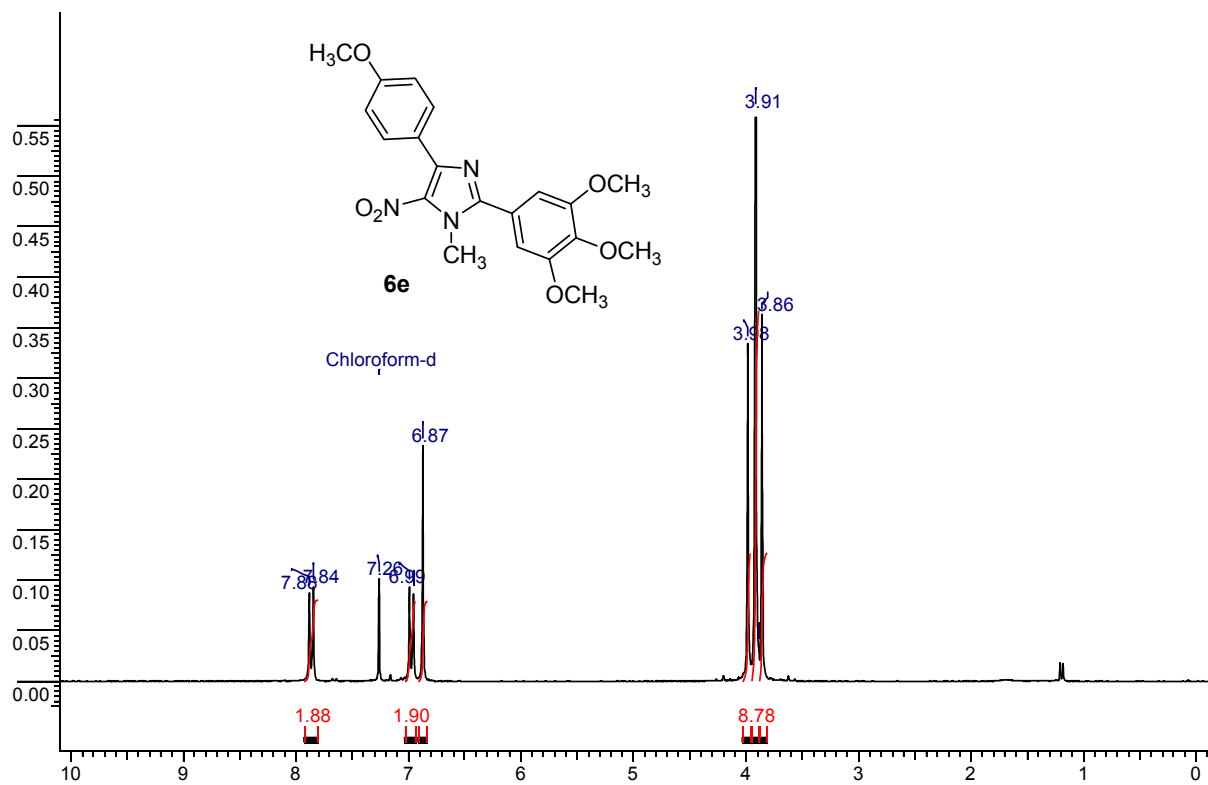


Figure S29. ¹H-NMR spectra of **6e**

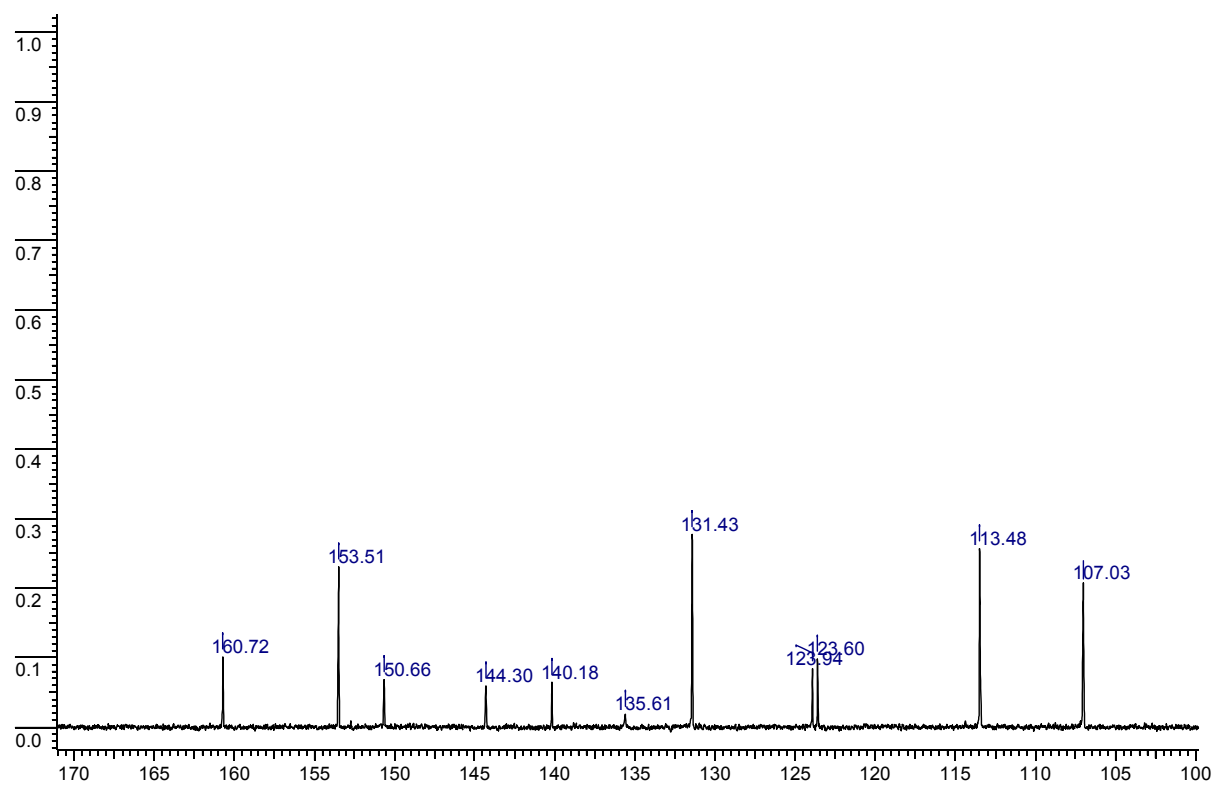
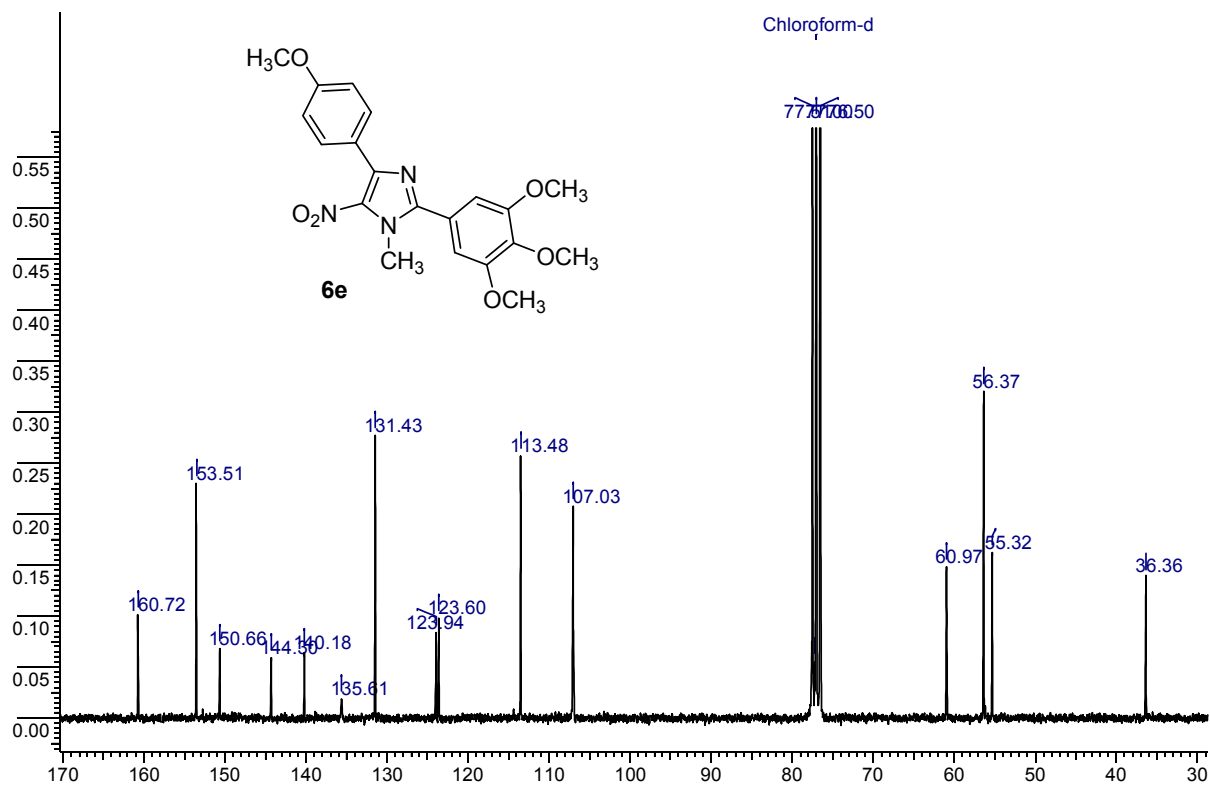


Figure S30. ^{13}C -NMR spectra of **6e**

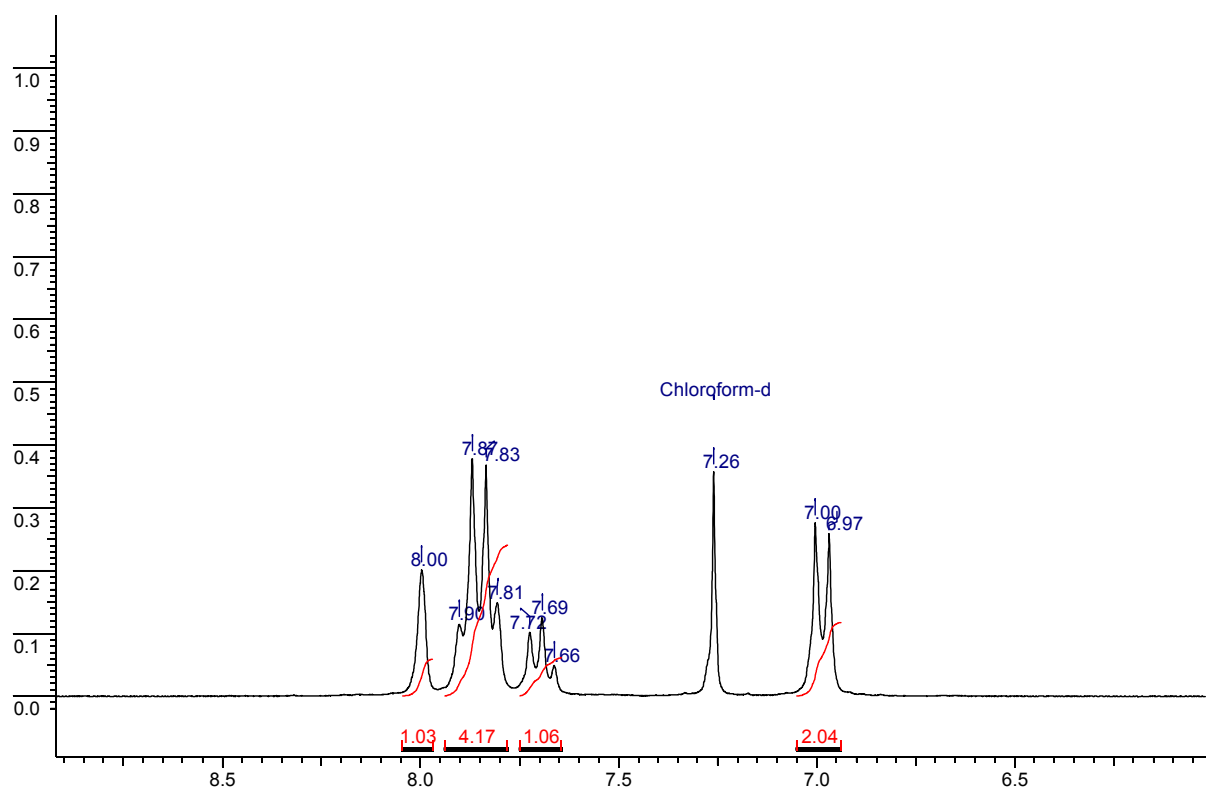
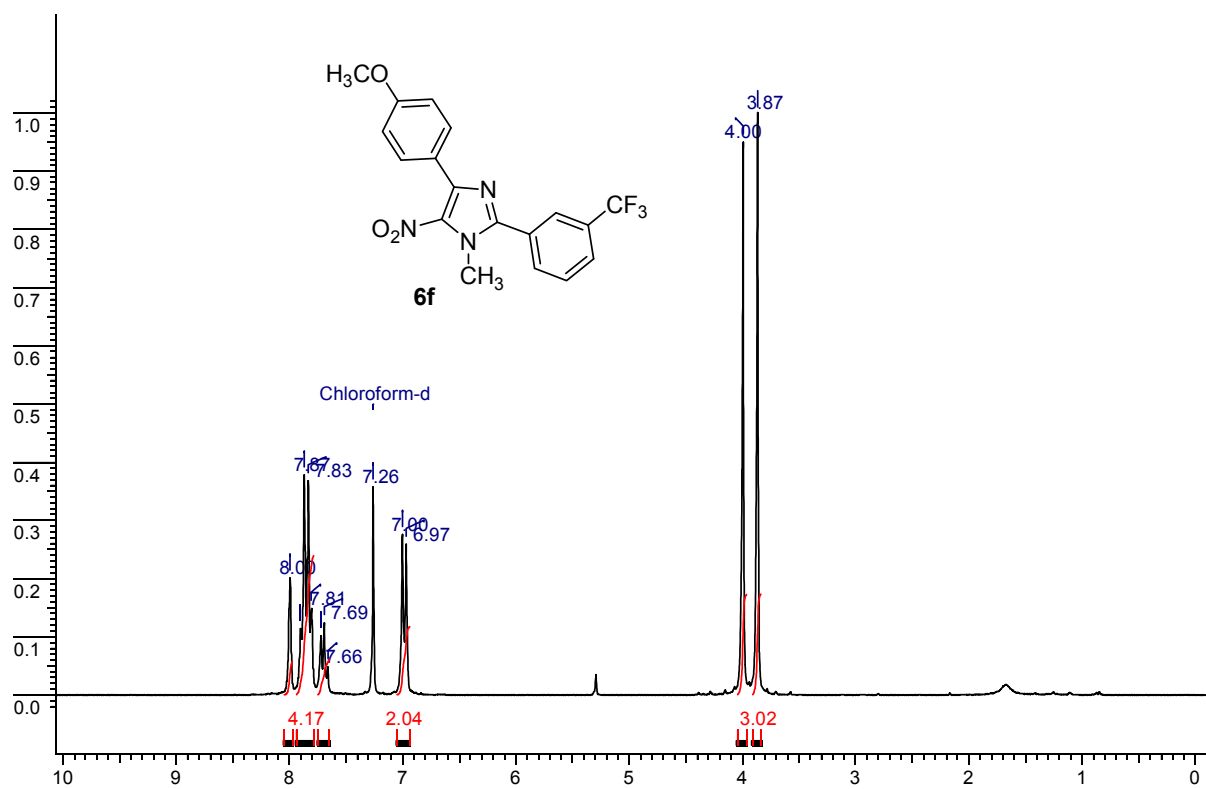


Figure S31. ¹H-NMR spectra of **6f**

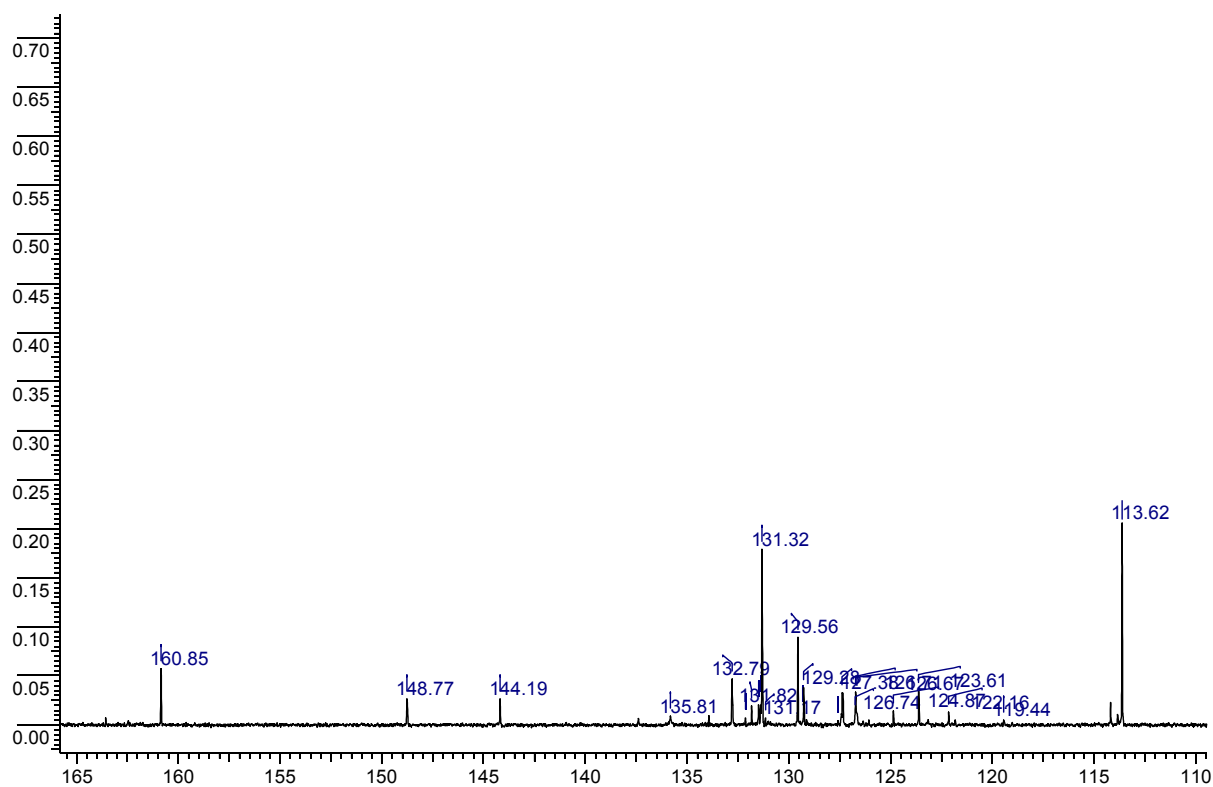
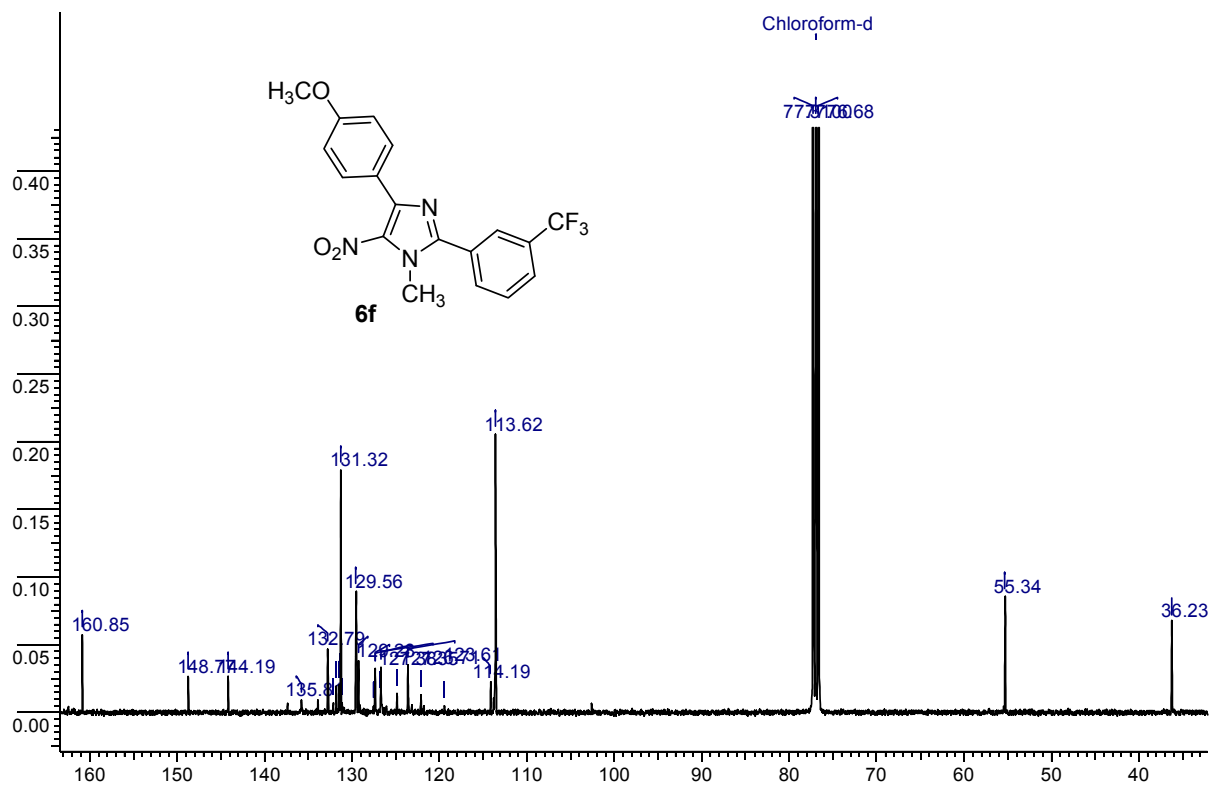


Figure S32. ^{13}C -NMR spectra of **6f**

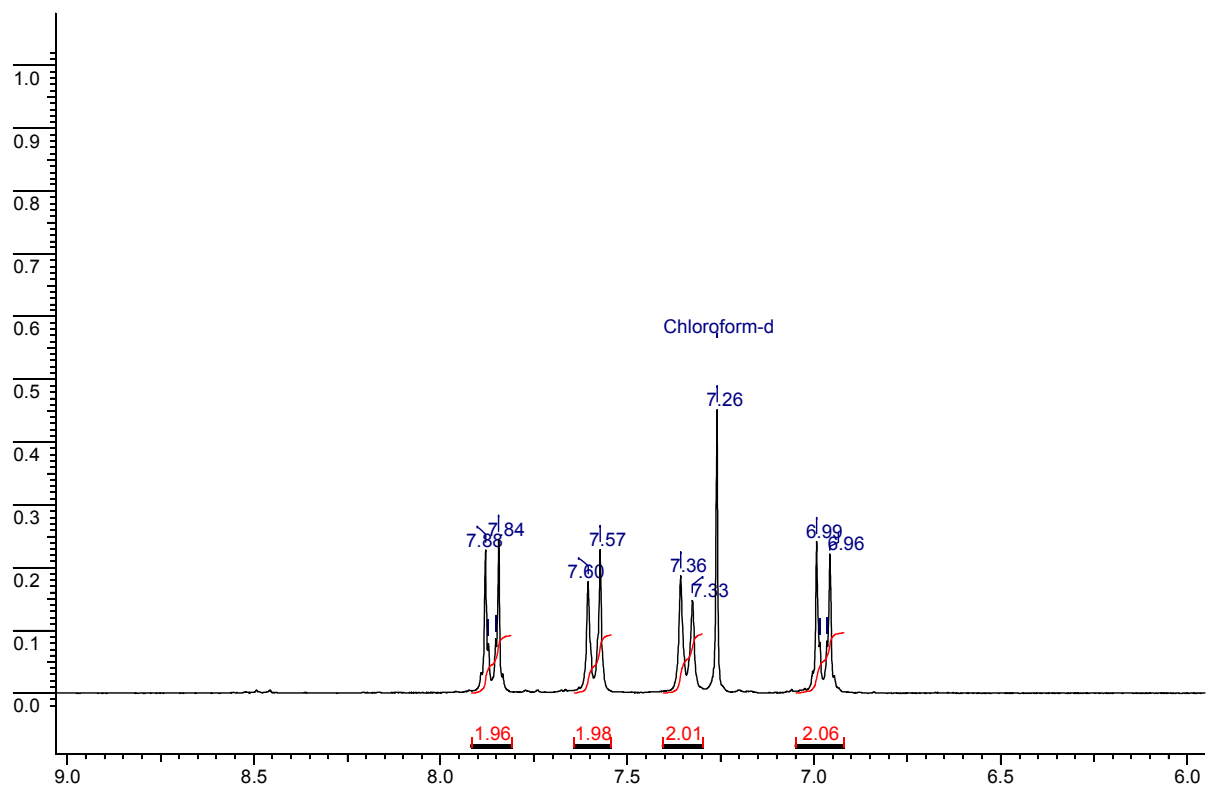
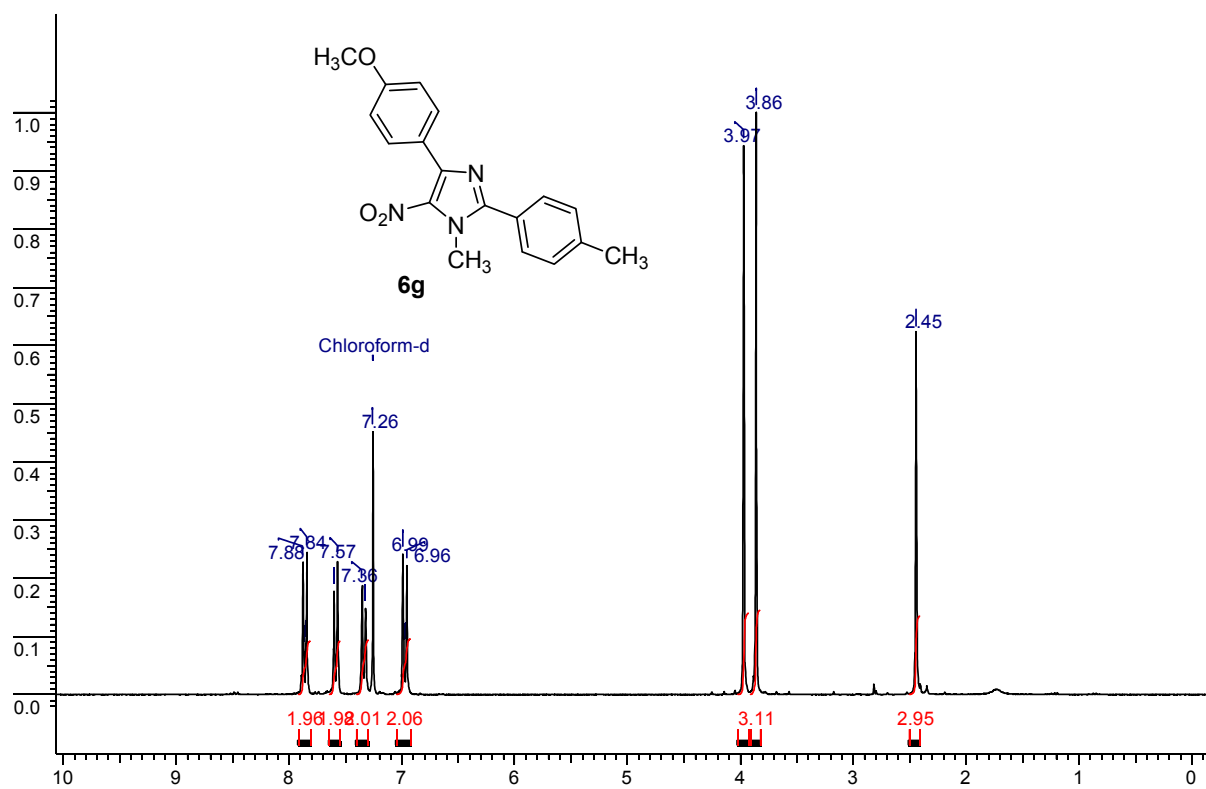


Figure S33. ¹H-NMR spectra of **6g**

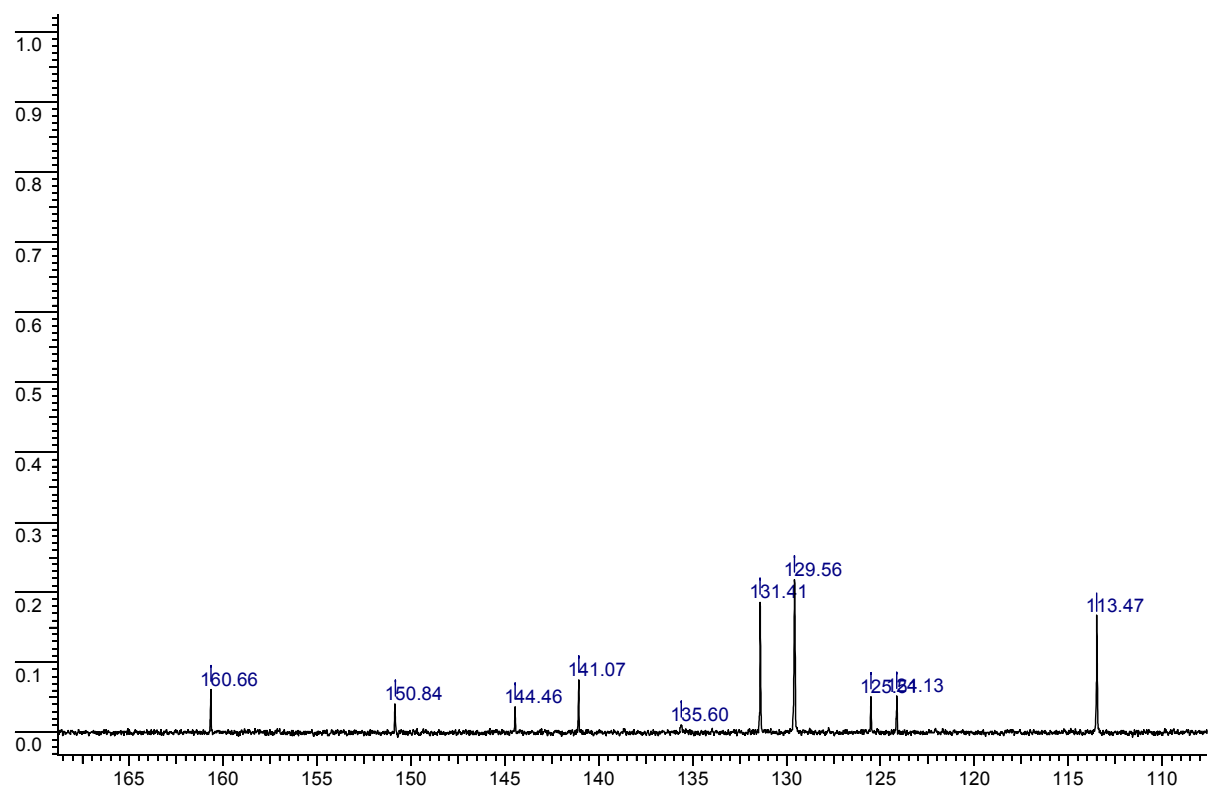
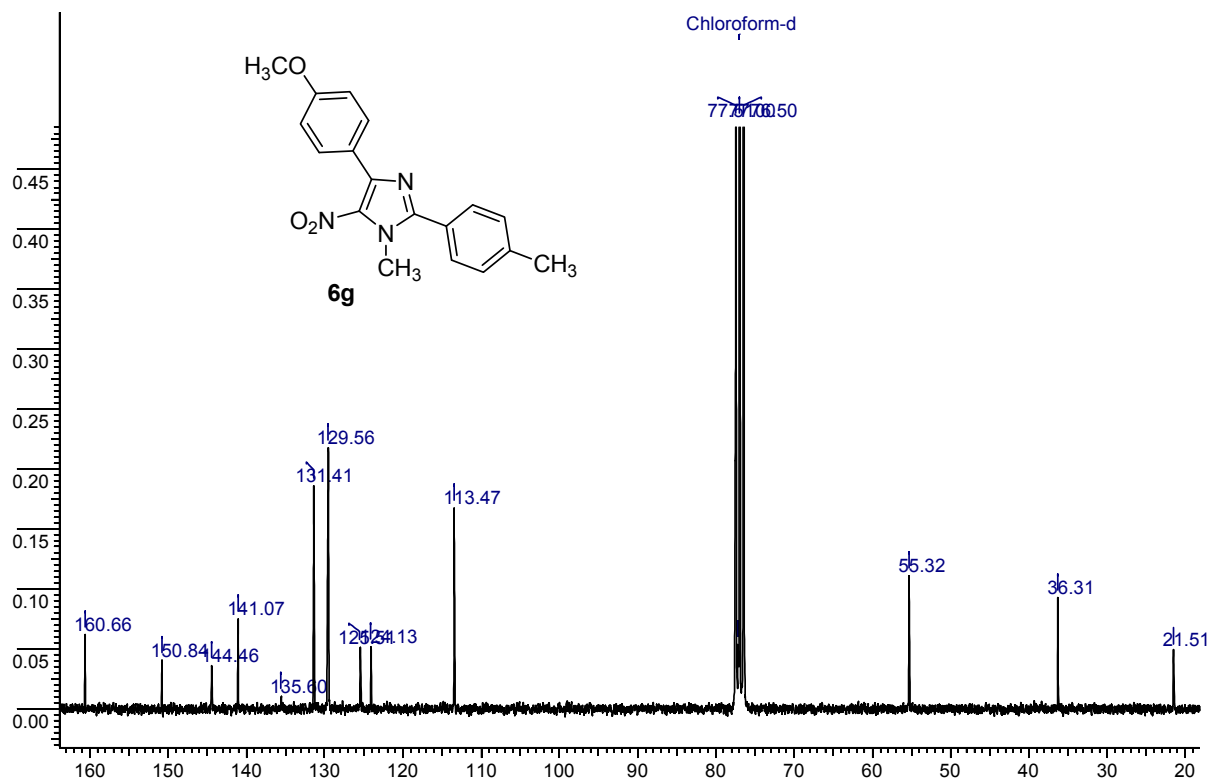


Figure S34. ¹³C-NMR spectra of **6g**

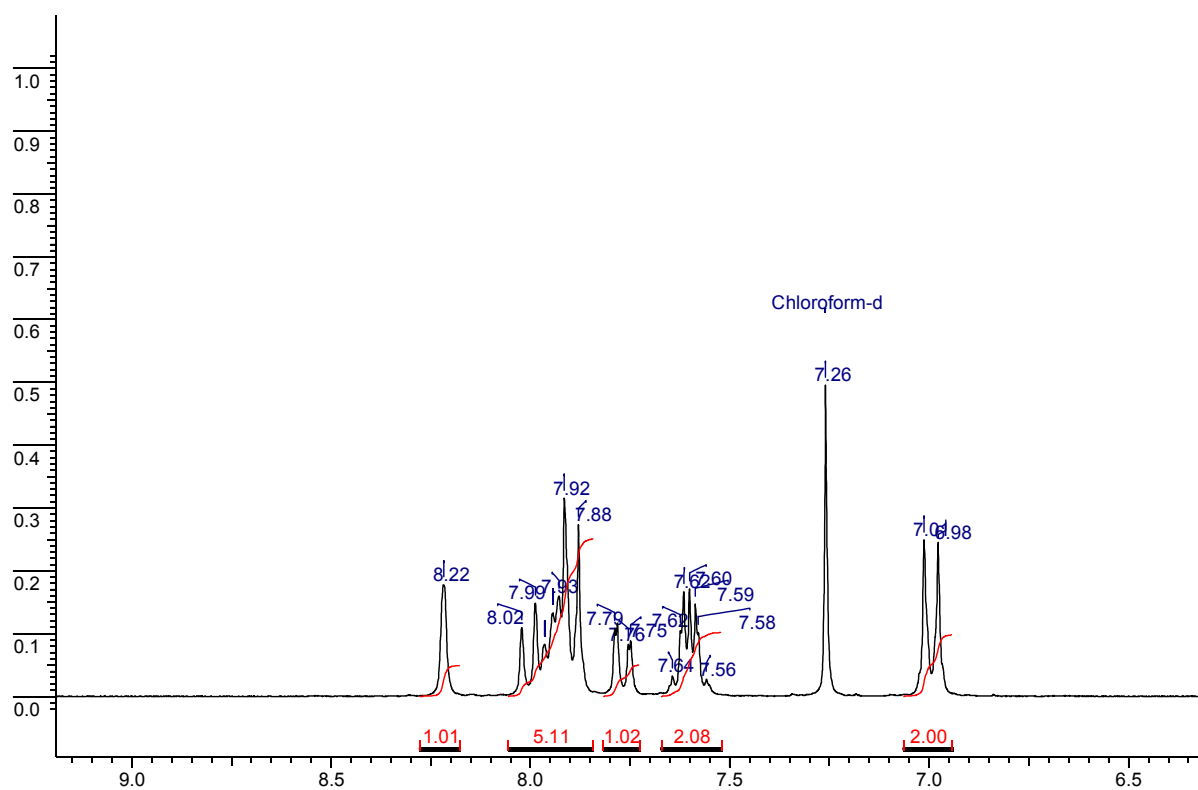
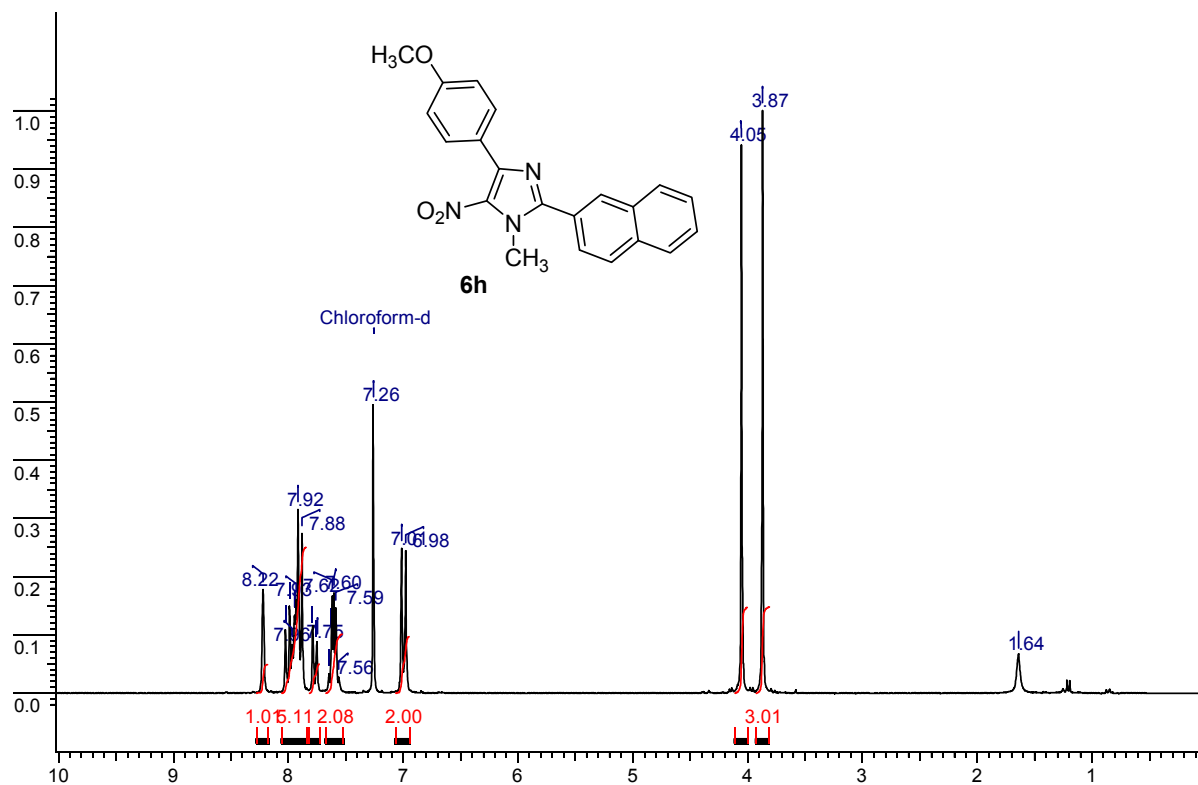


Figure S35. $^1\text{H-NMR}$ spectra of **6h**

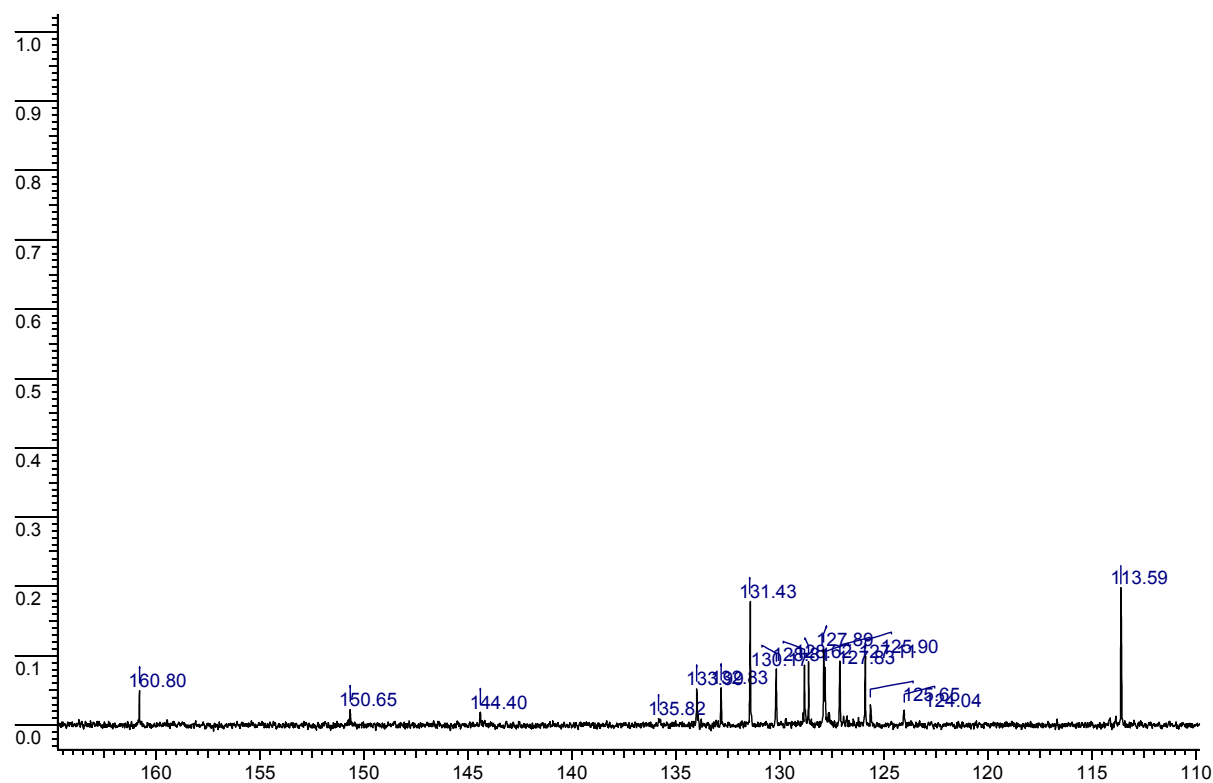
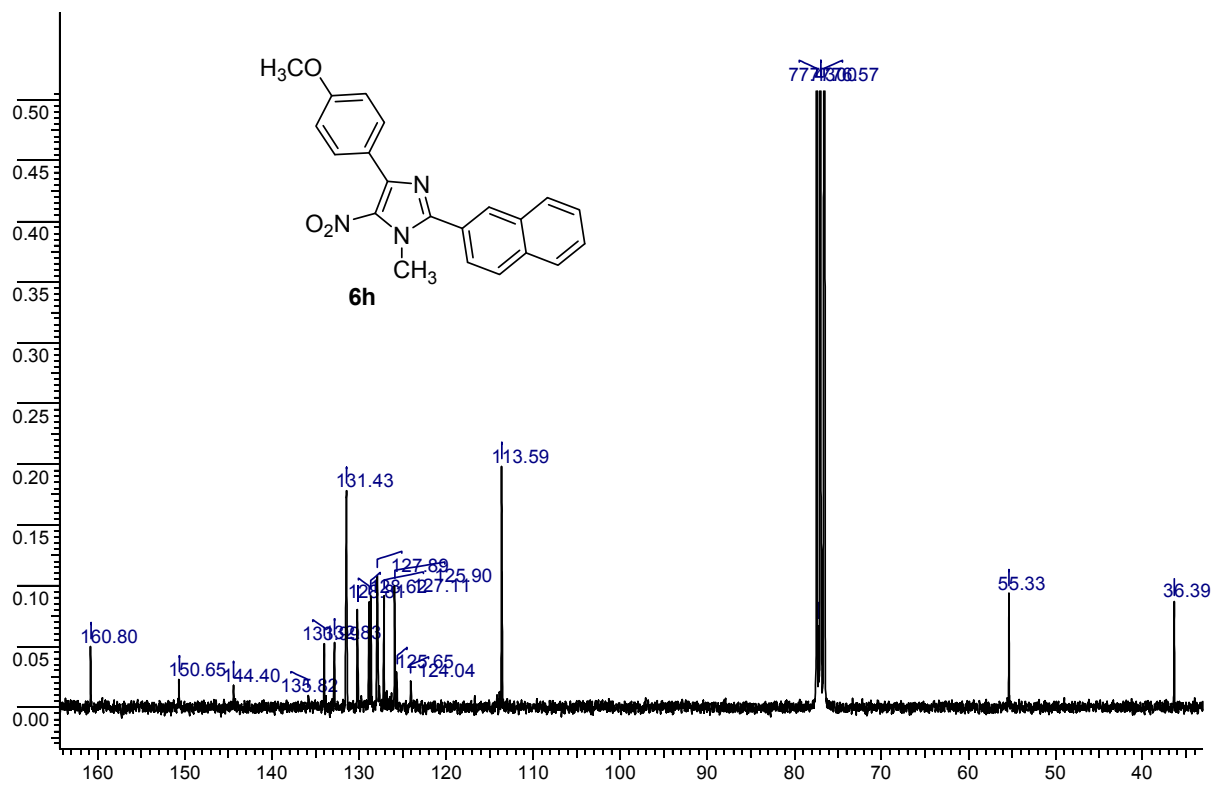


Figure S36. ^{13}C -NMR spectra of **6h**

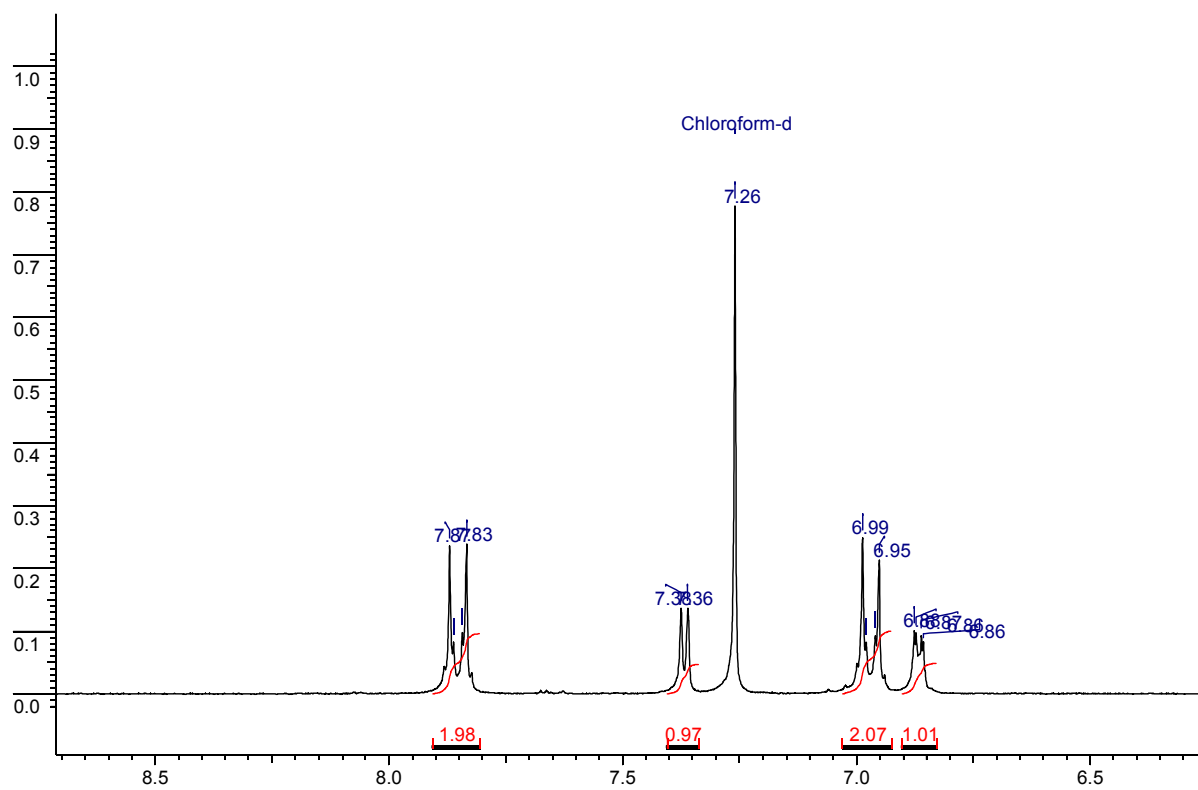
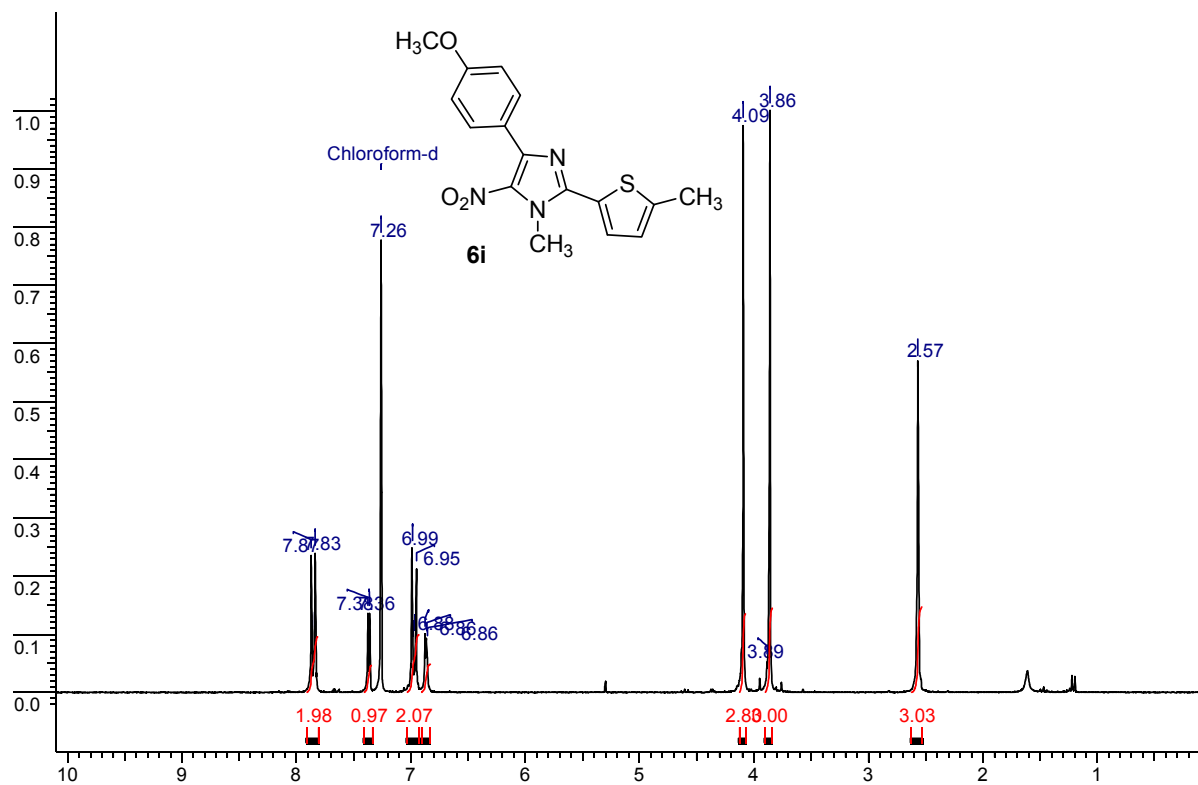


Figure S37. ¹H-NMR spectra of **6i**

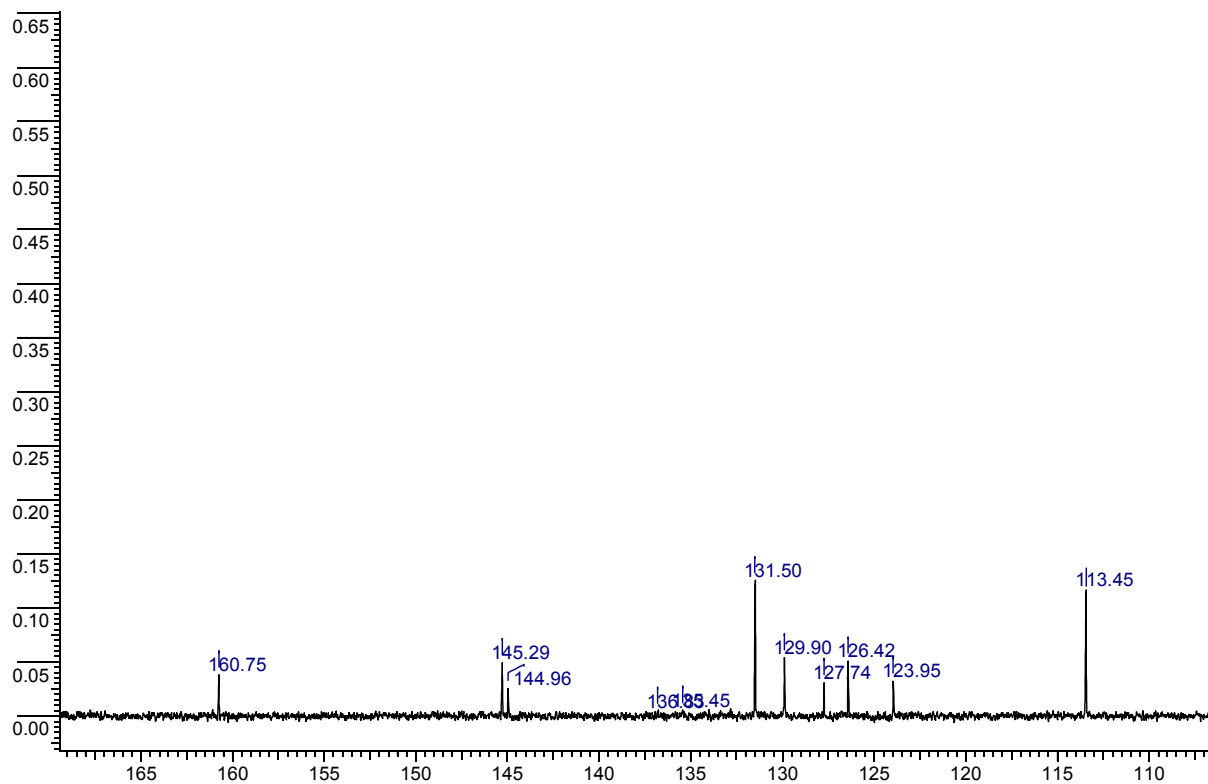
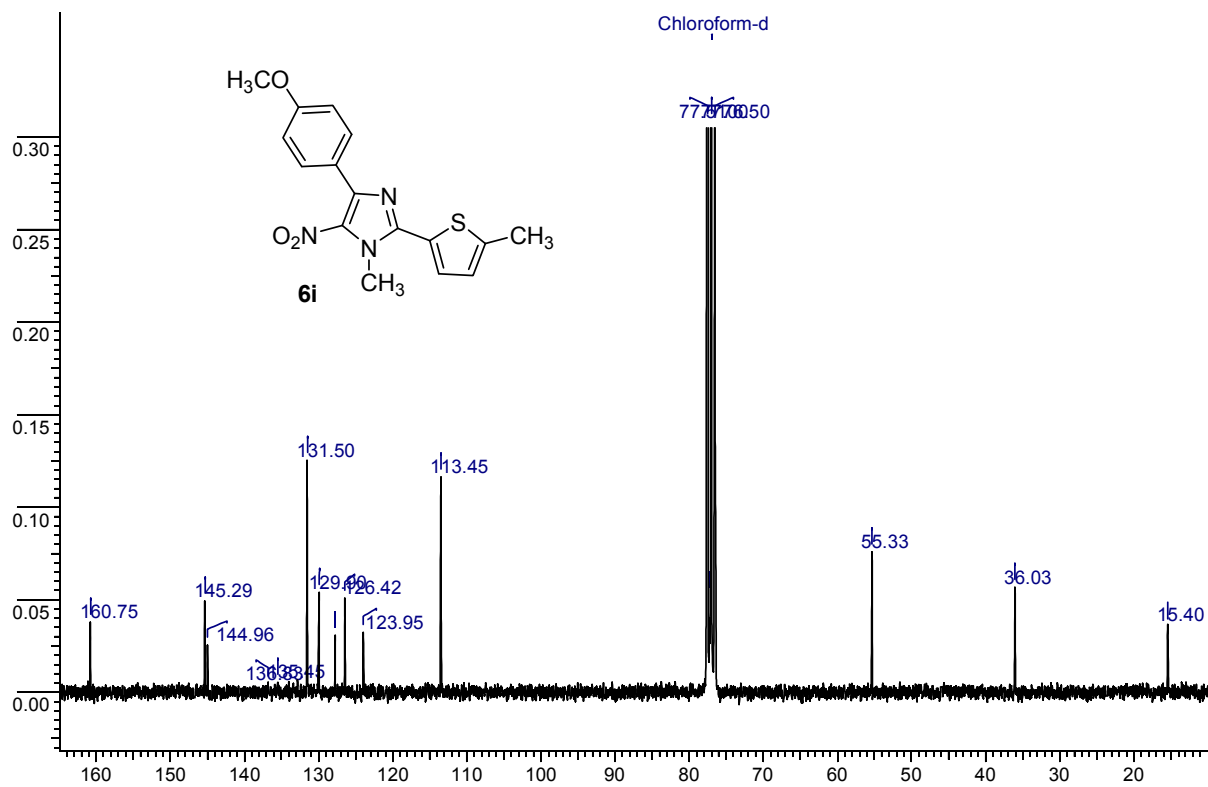


Figure S38. ¹³C-NMR spectra of **6i**

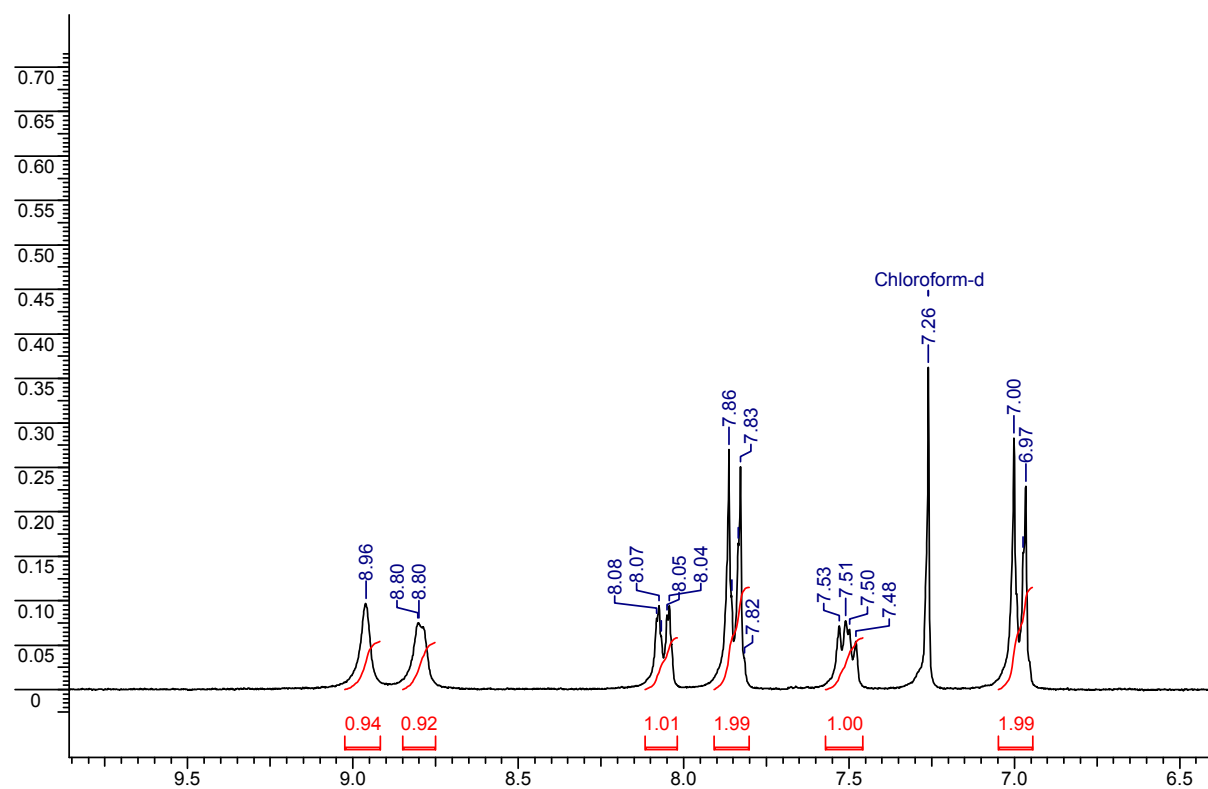
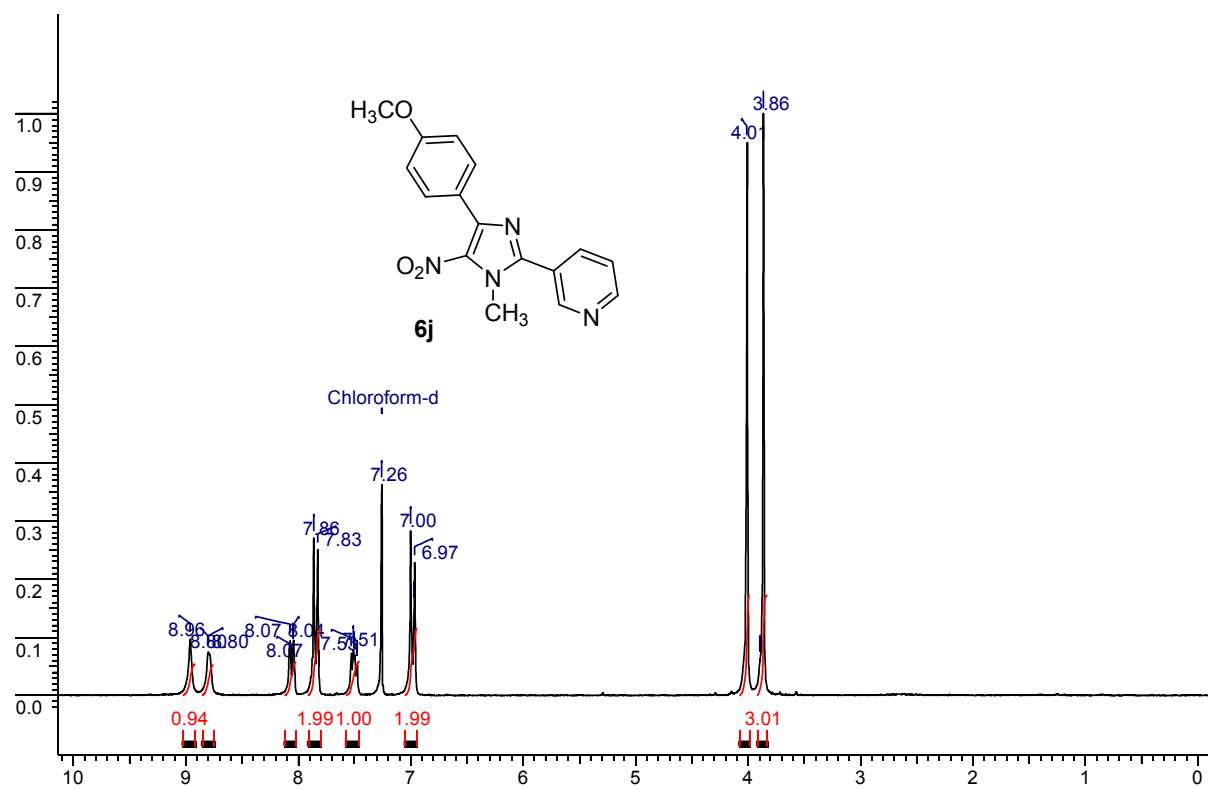


Figure S39. ¹H-NMR spectra of **6j**

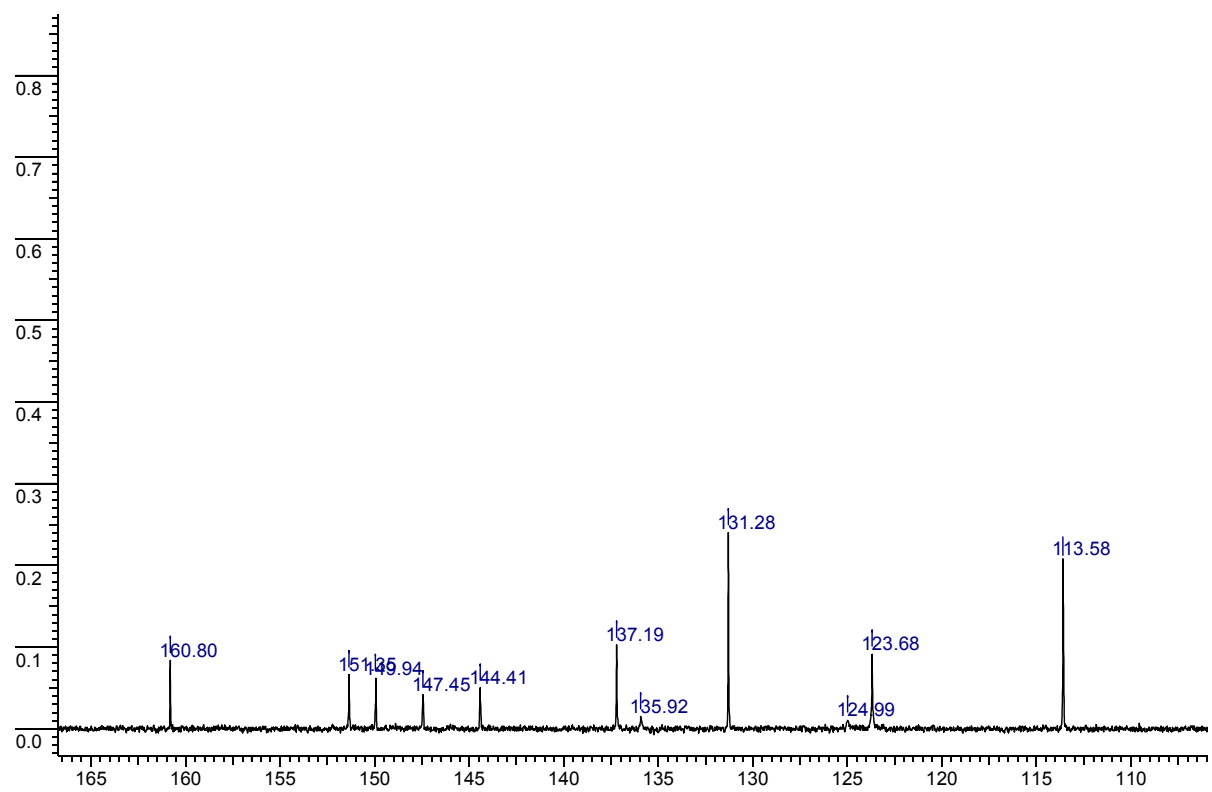
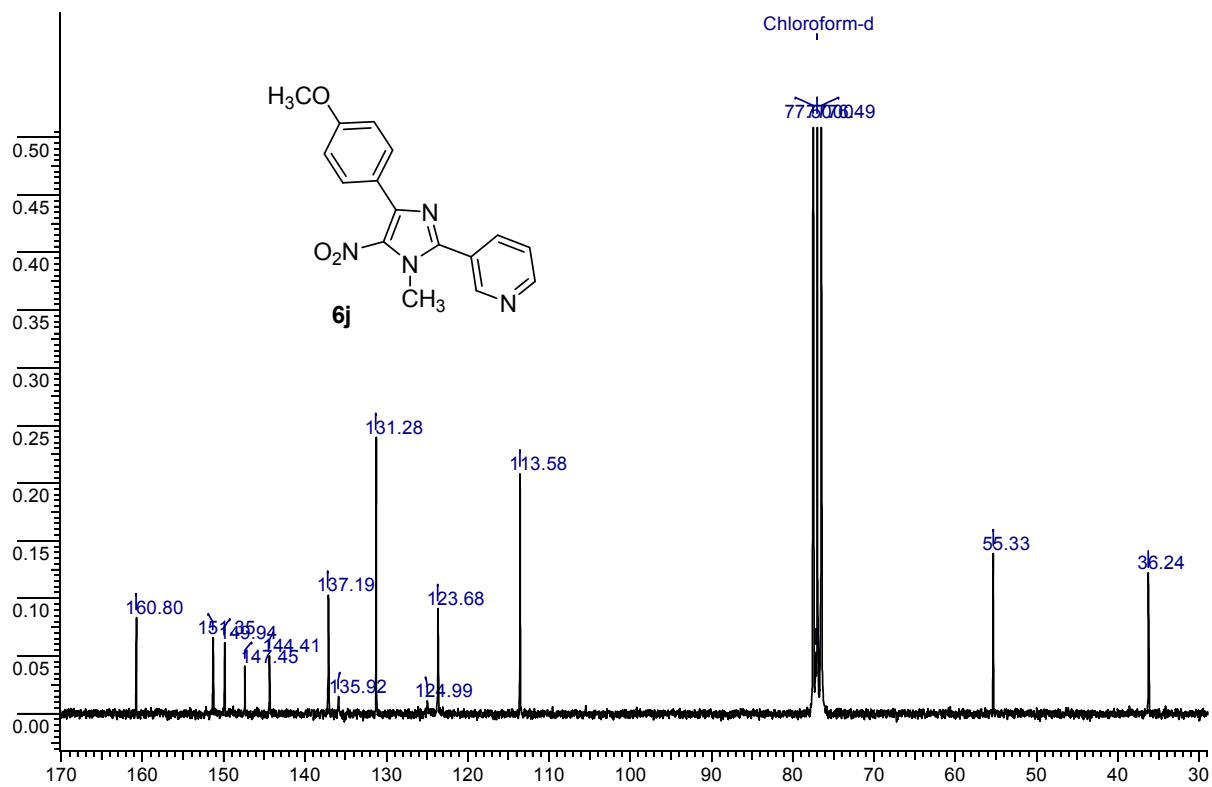


Figure S40. ¹³C-NMR spectra of **6j**

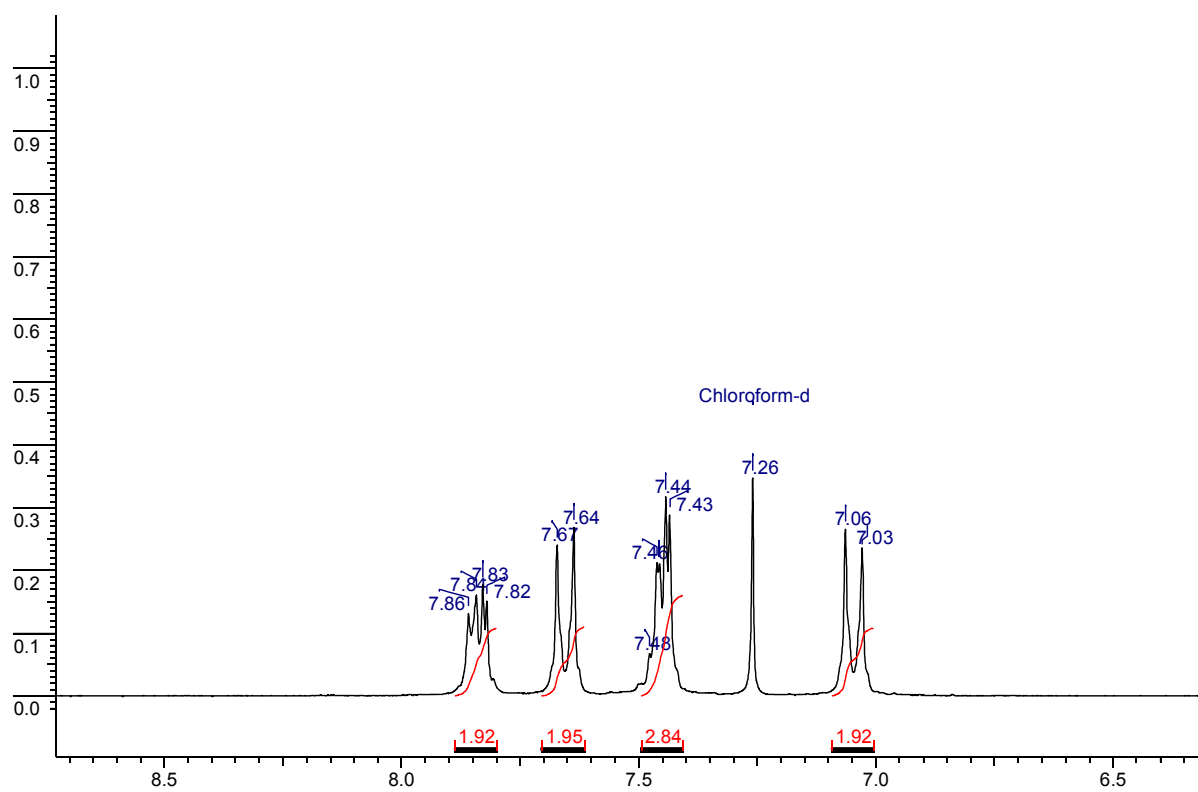
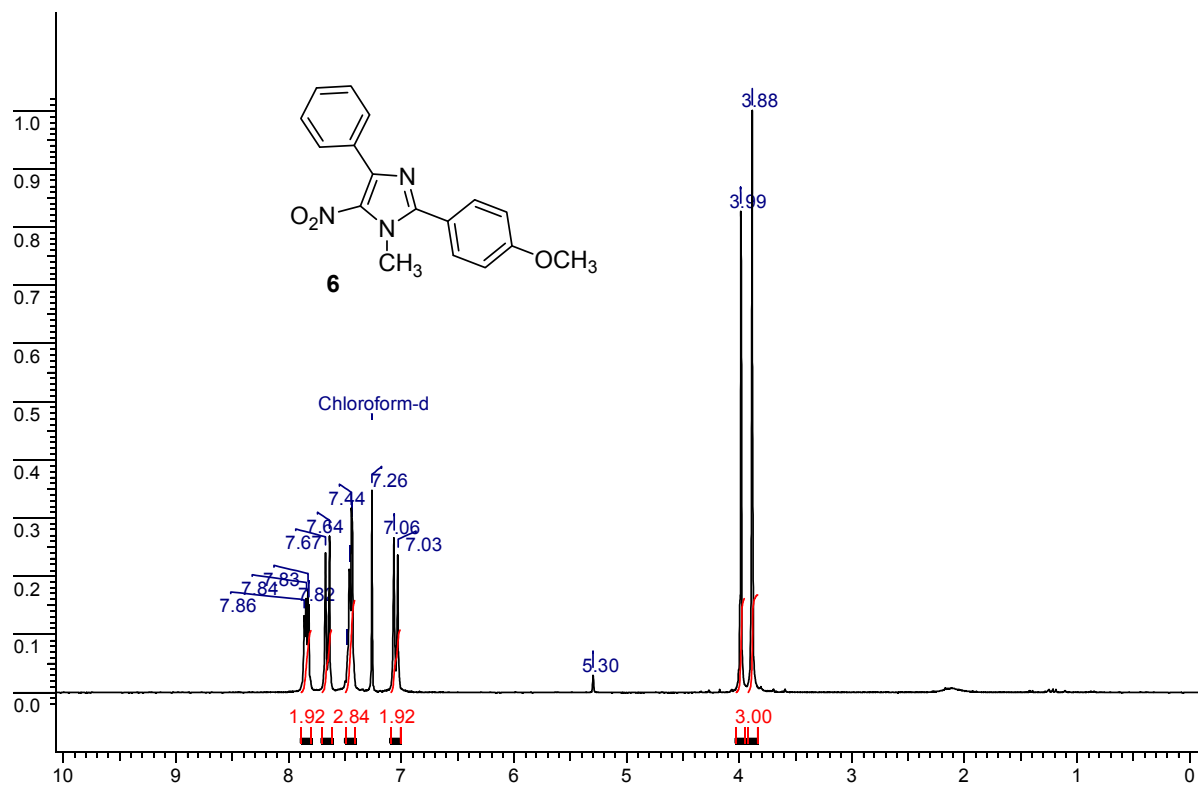


Figure S41. ¹H-NMR spectra of **6**

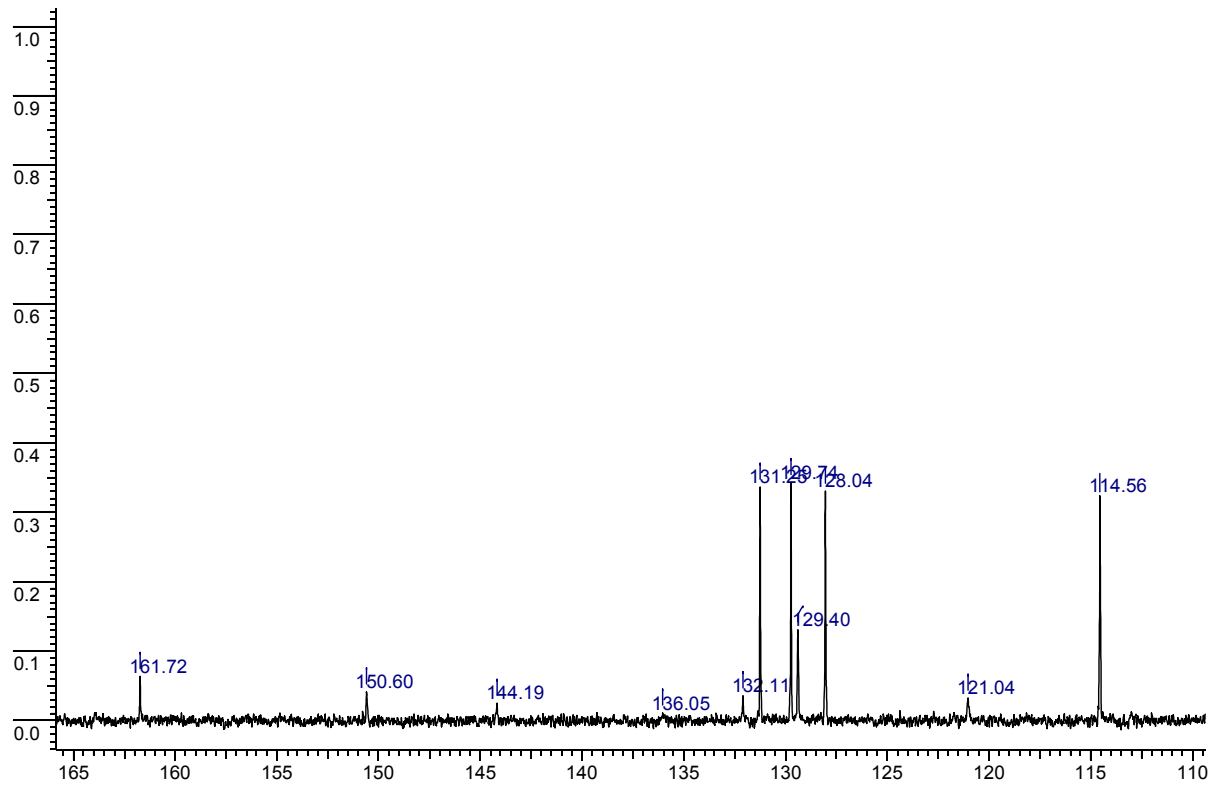
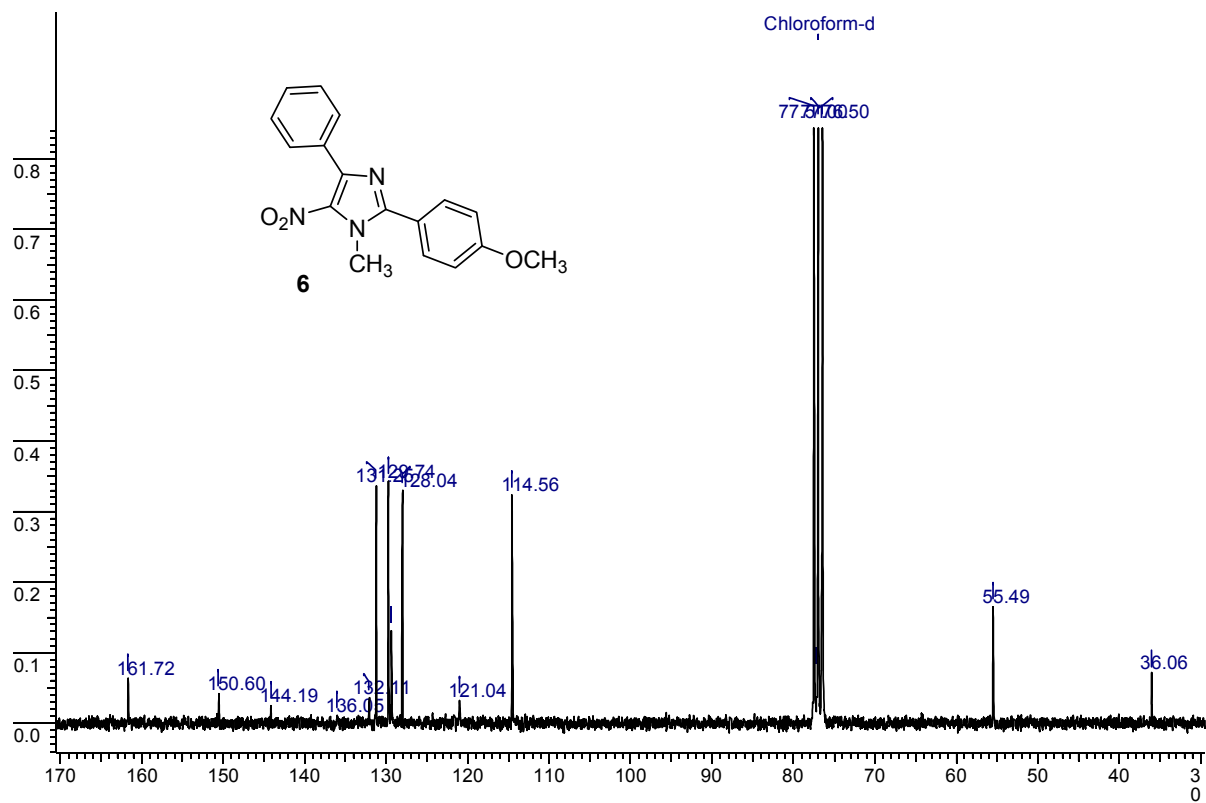


Figure S42. ^{13}C -NMR spectra of **6**

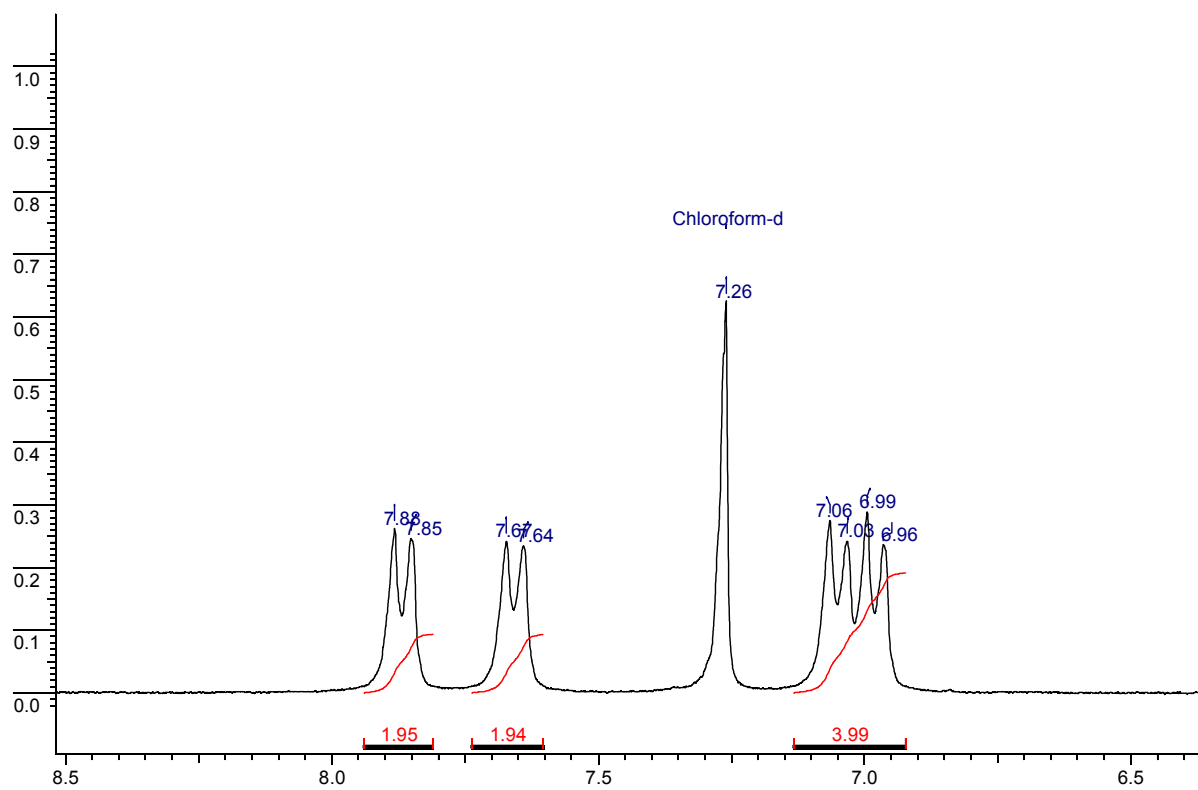
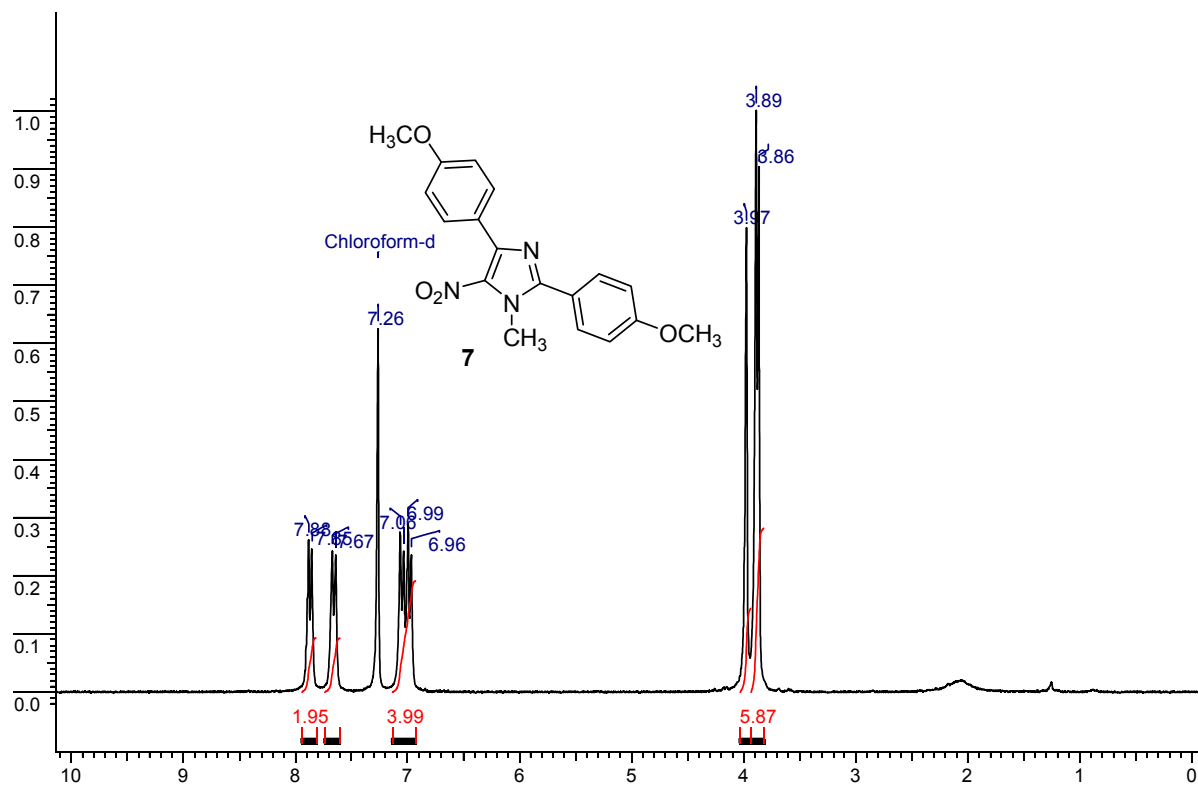


Figure S43. ¹H-NMR spectra of 7

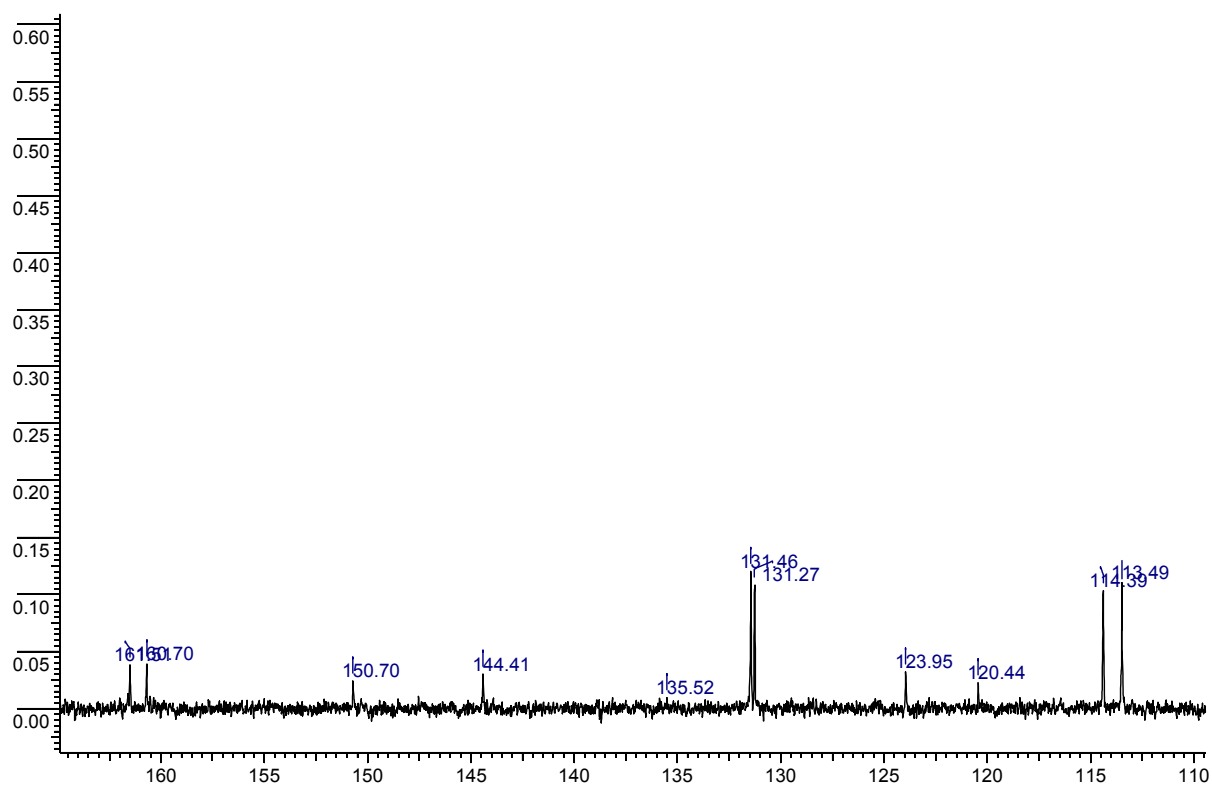
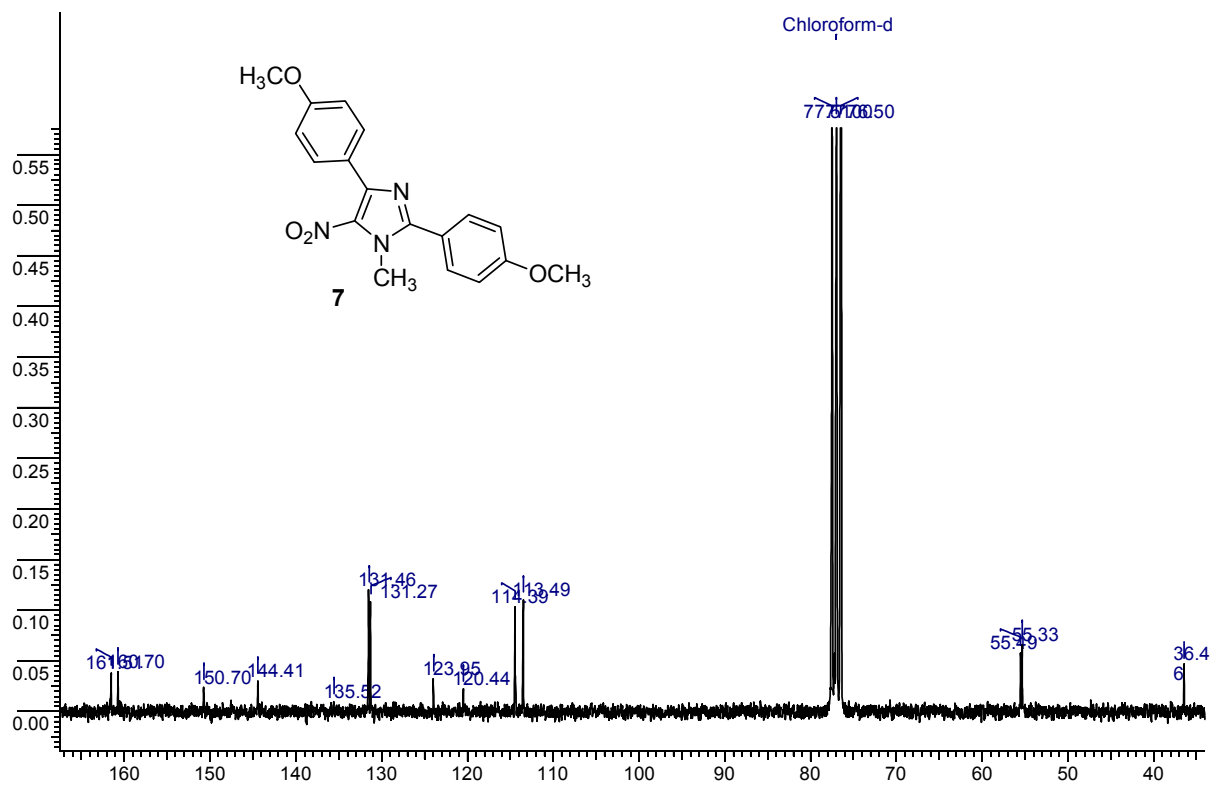


Figure S44. ¹³C-NMR spectra of 7

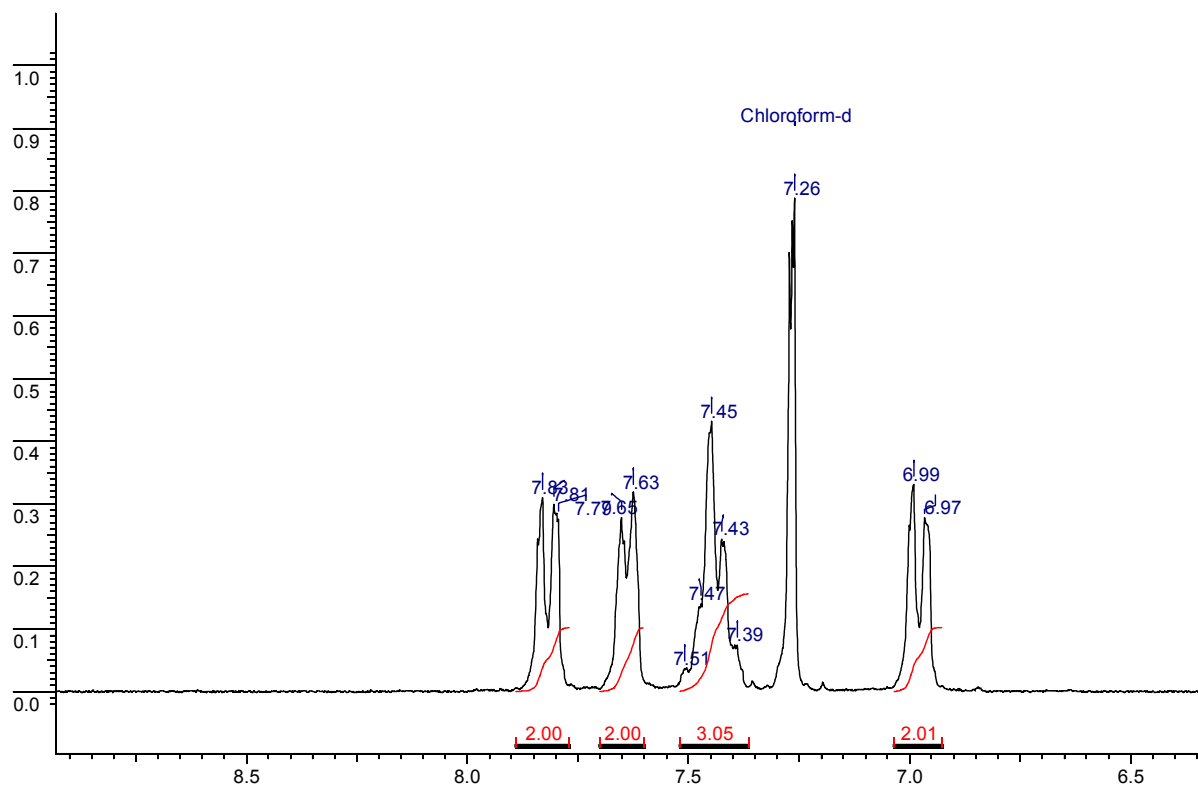
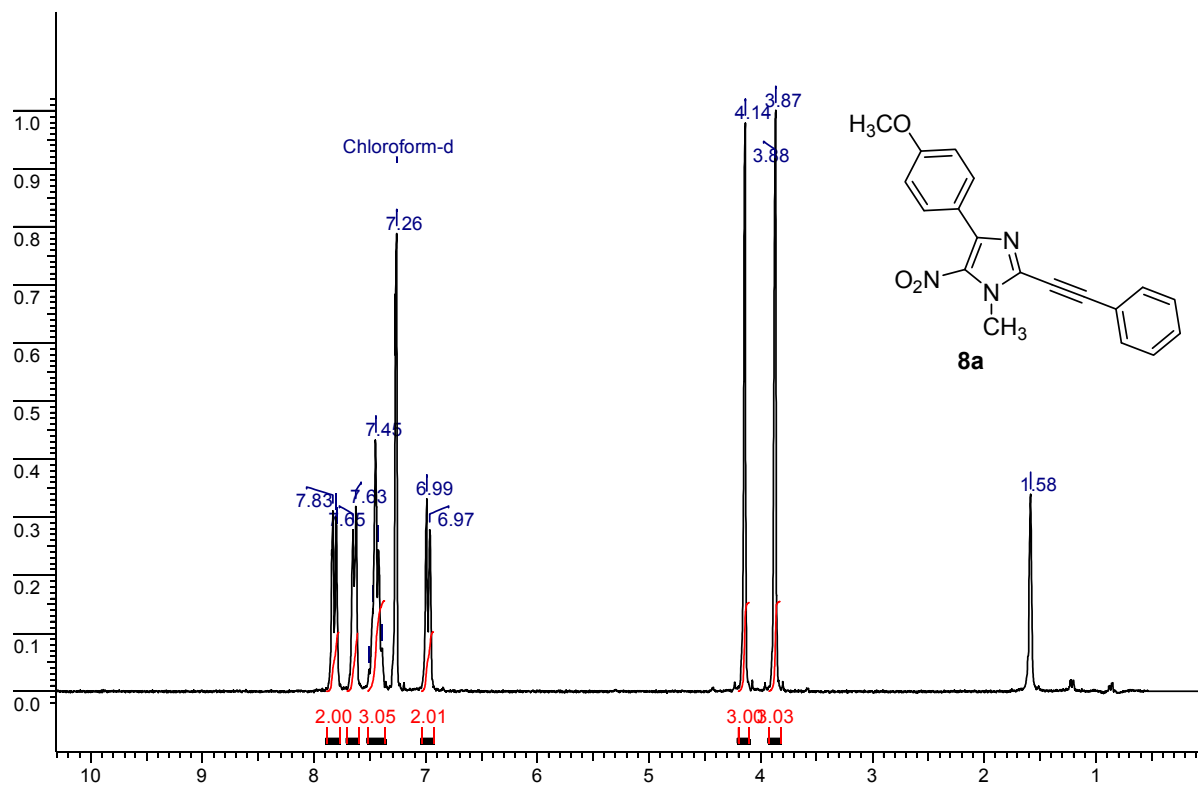


Figure S45. ¹H-NMR spectra of **8a**

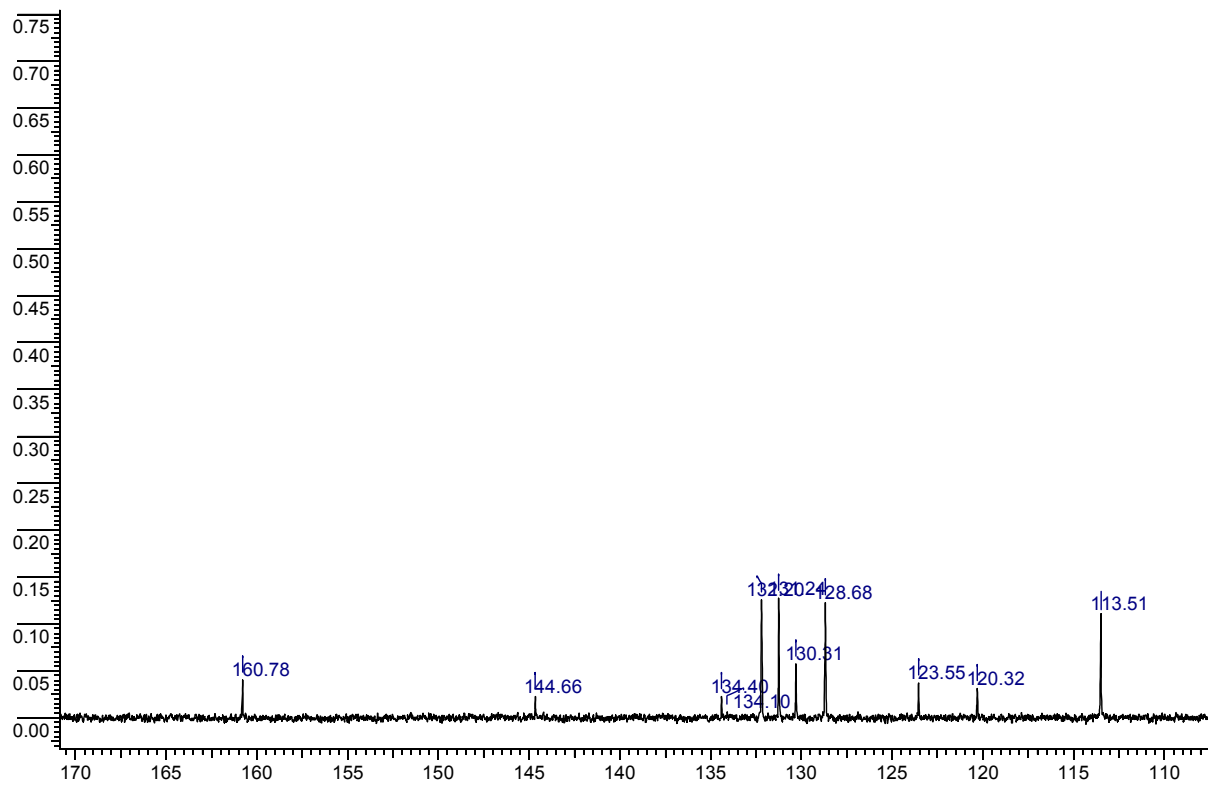
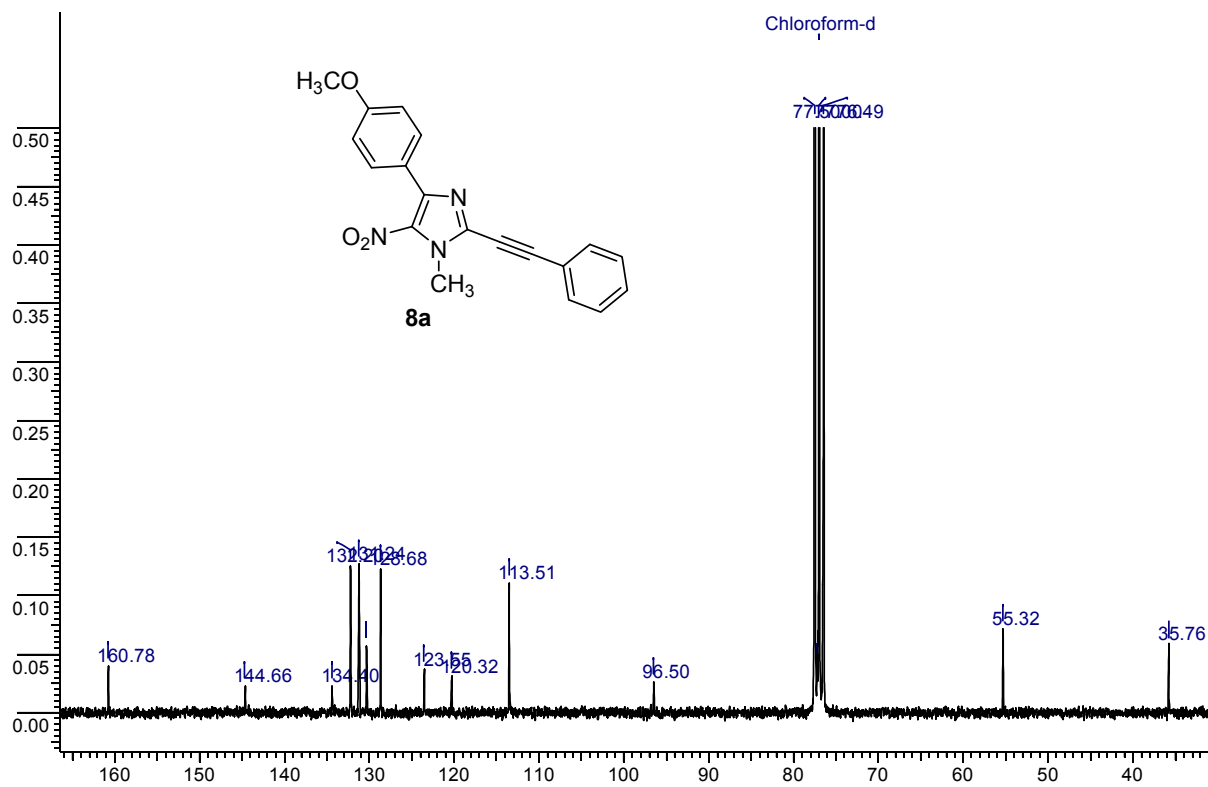


Figure S46. ^{13}C -NMR spectra of **8a**

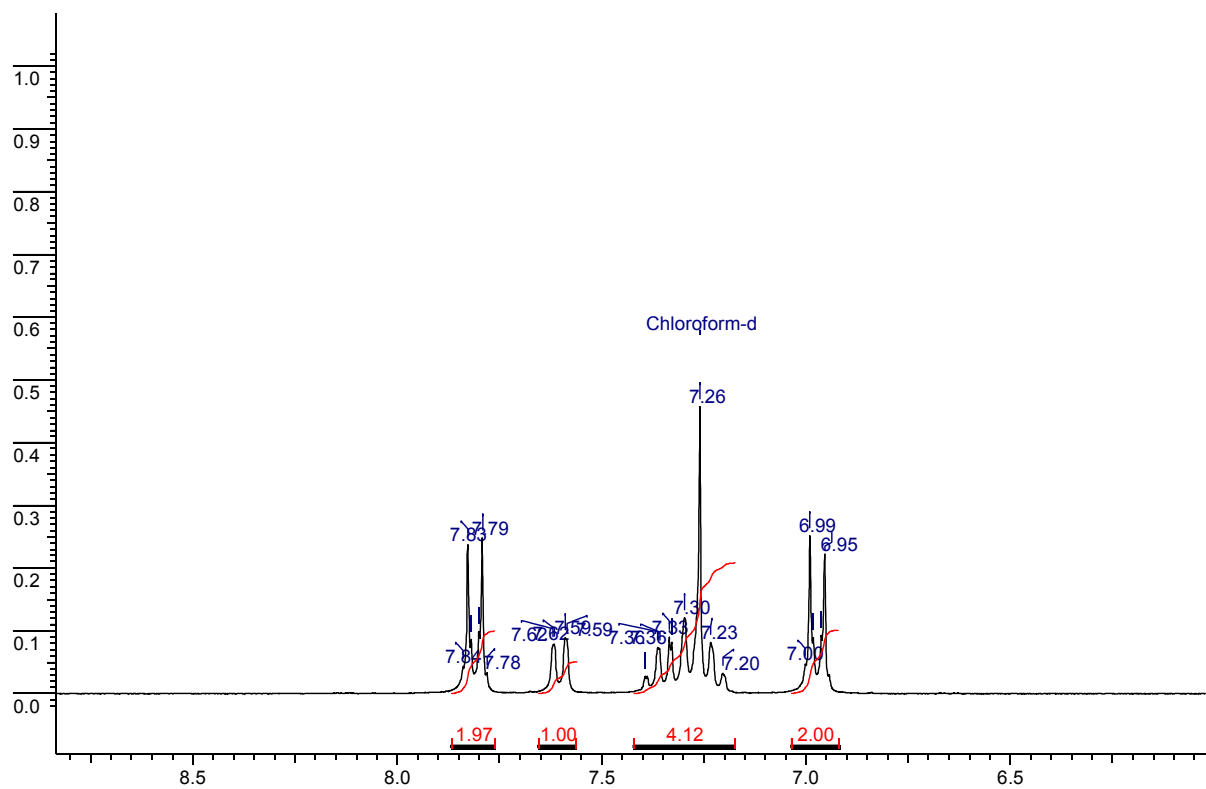
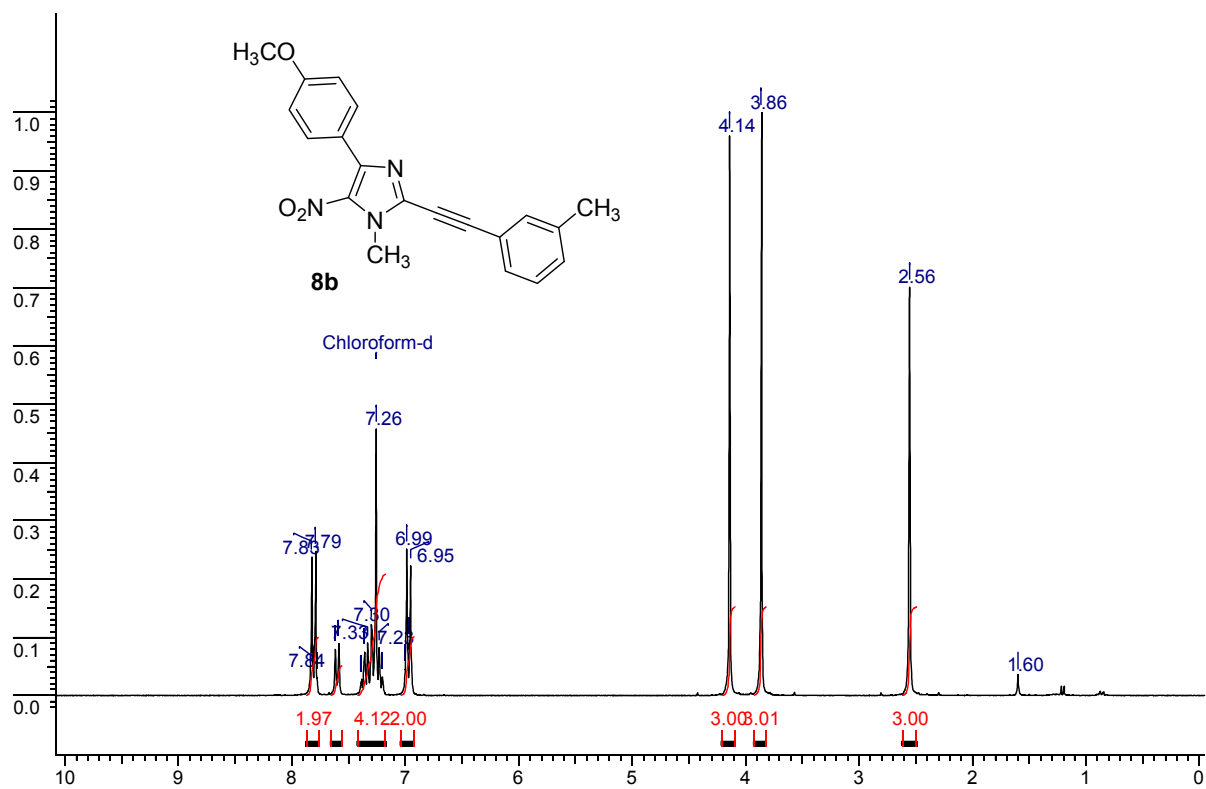


Figure S47. ¹H-NMR spectra of **8b**

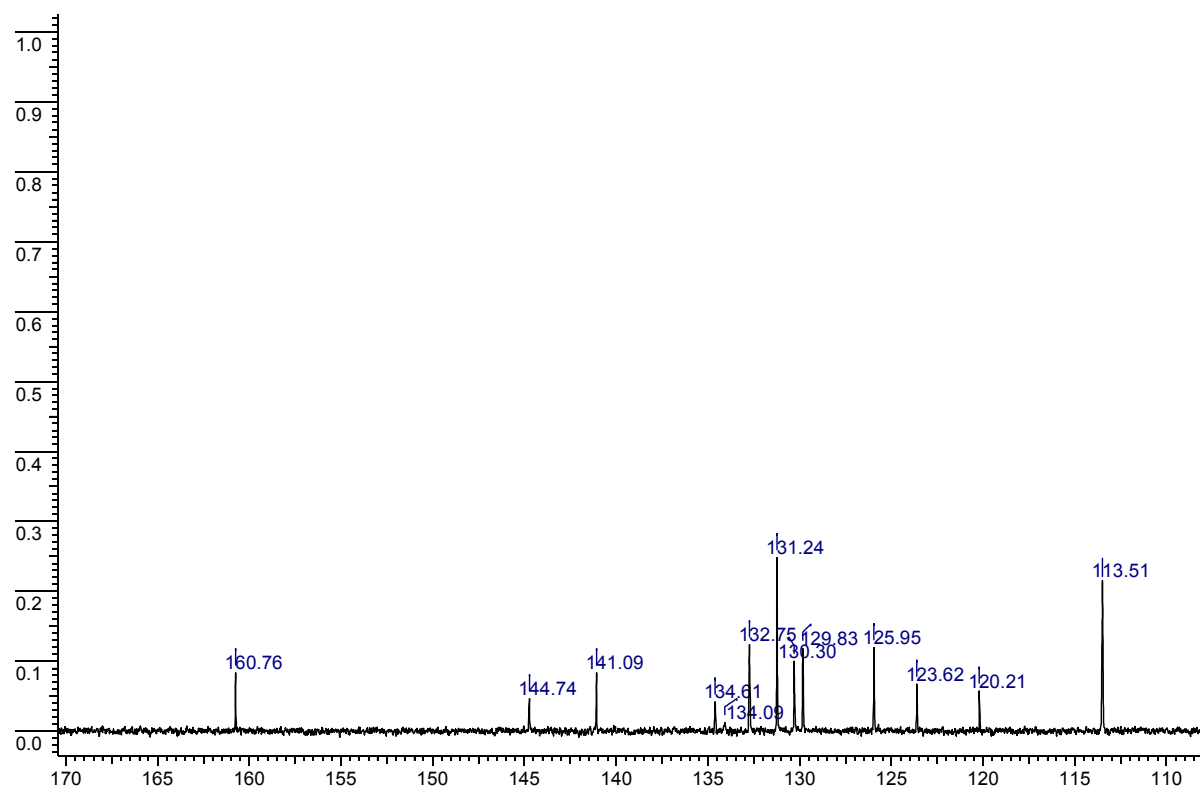
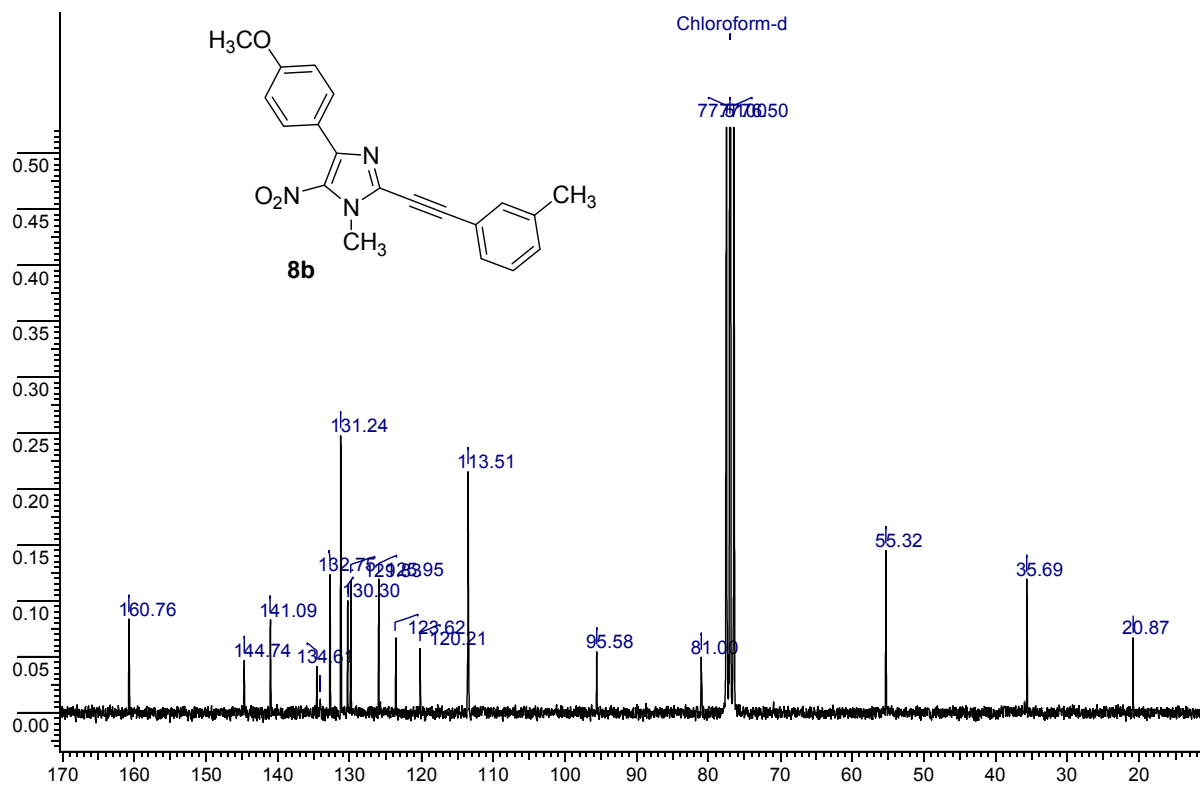


Figure S48. ^{13}C -NMR spectra of **8b**

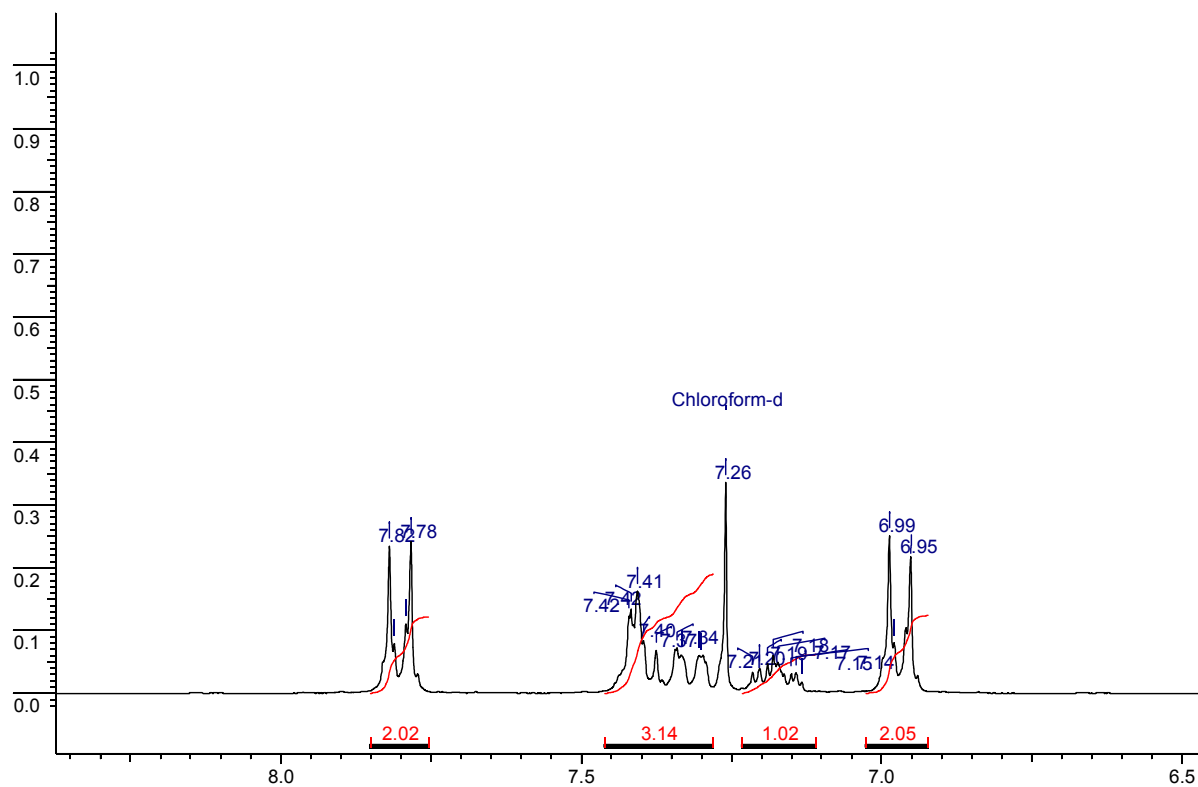
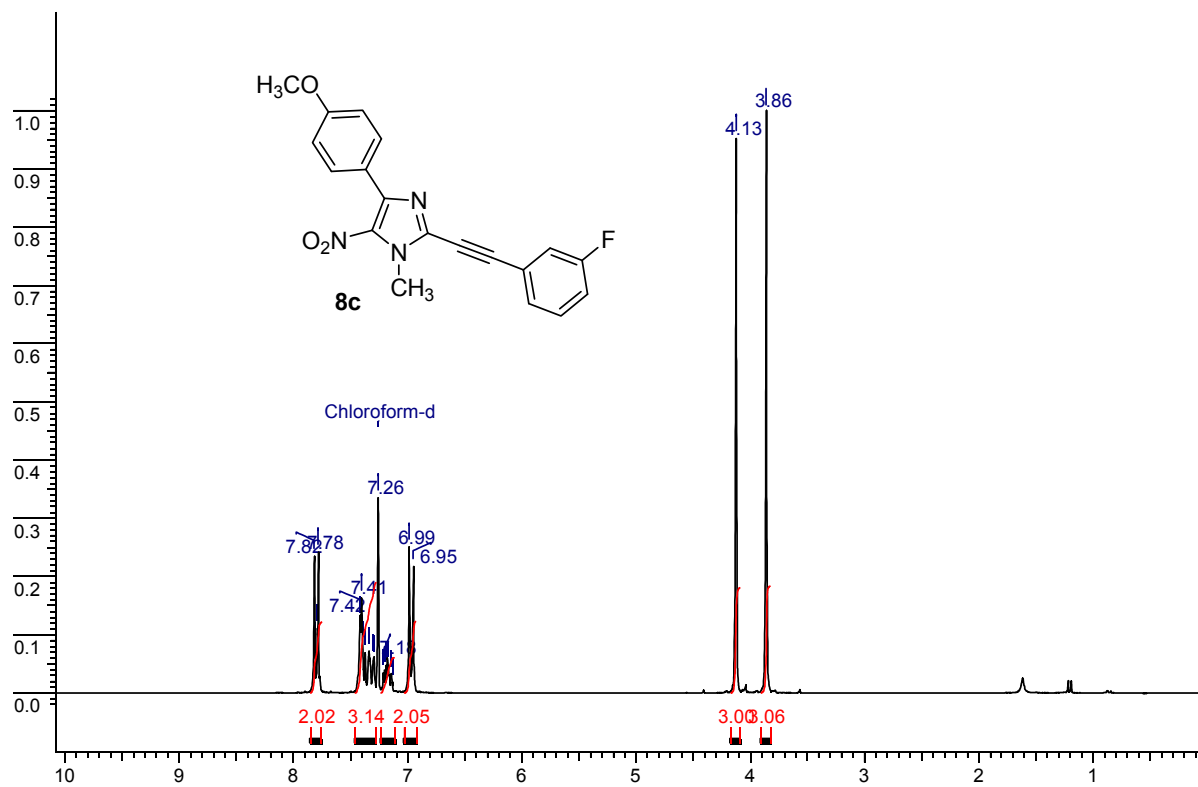


Figure S49. $^1\text{H-NMR}$ spectra of **8c**

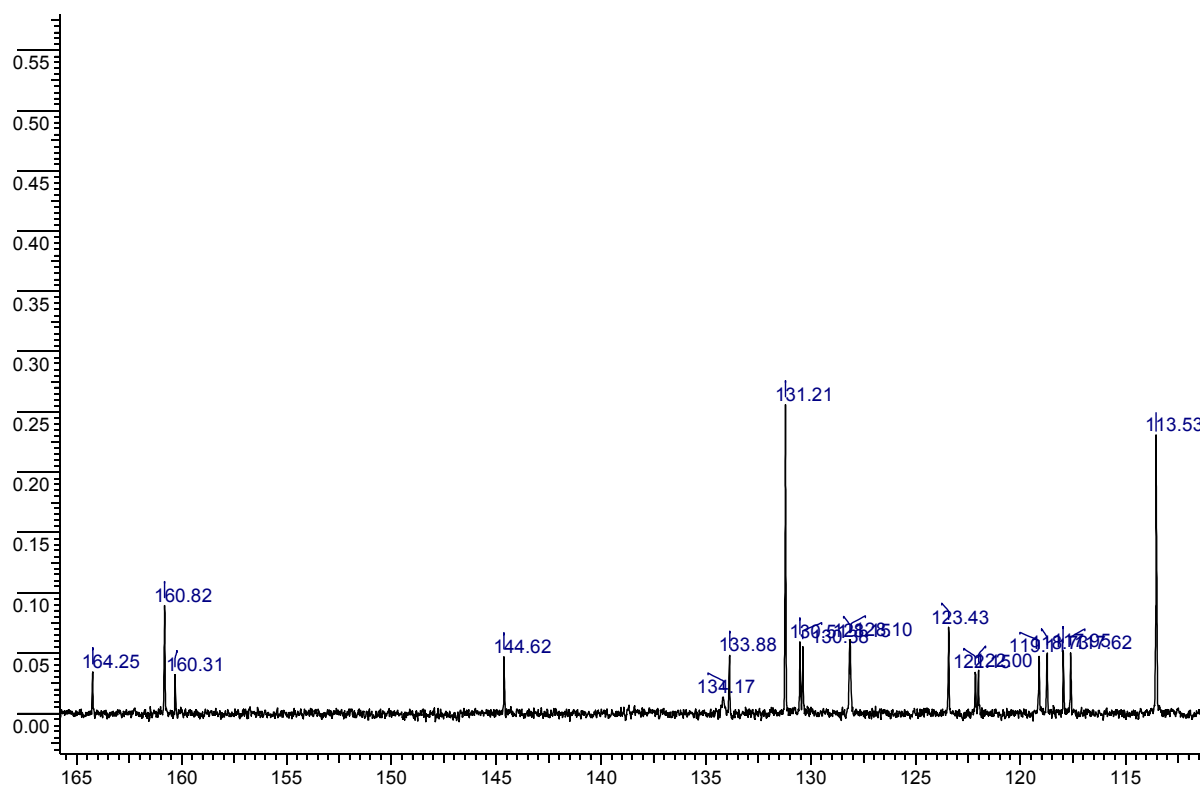
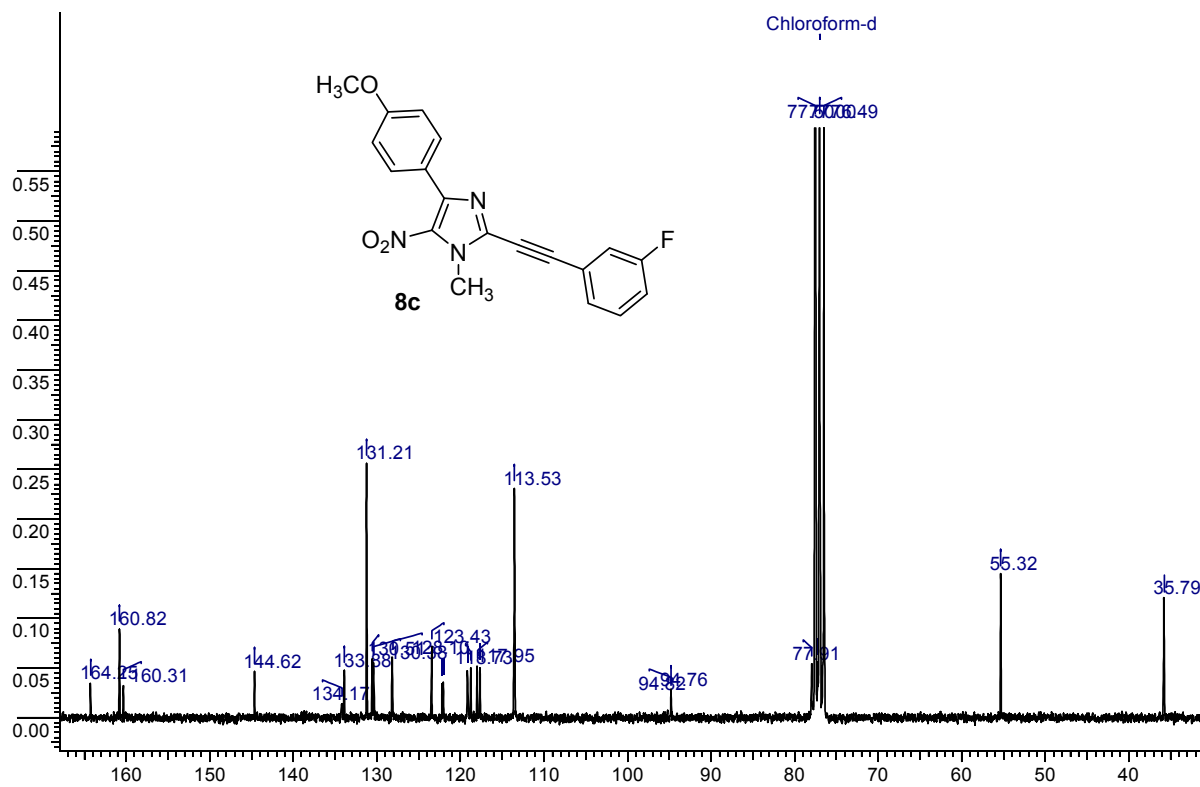


Figure S50. ¹³C-NMR spectra of **8c**

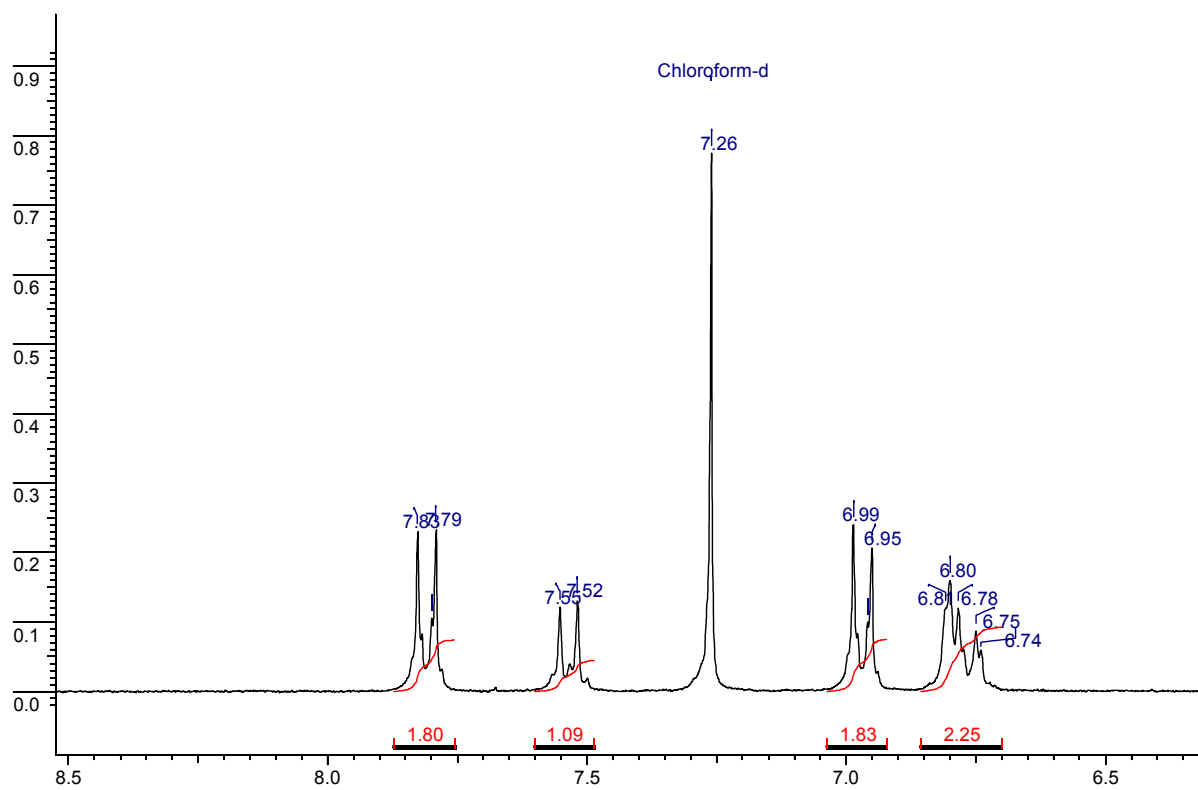
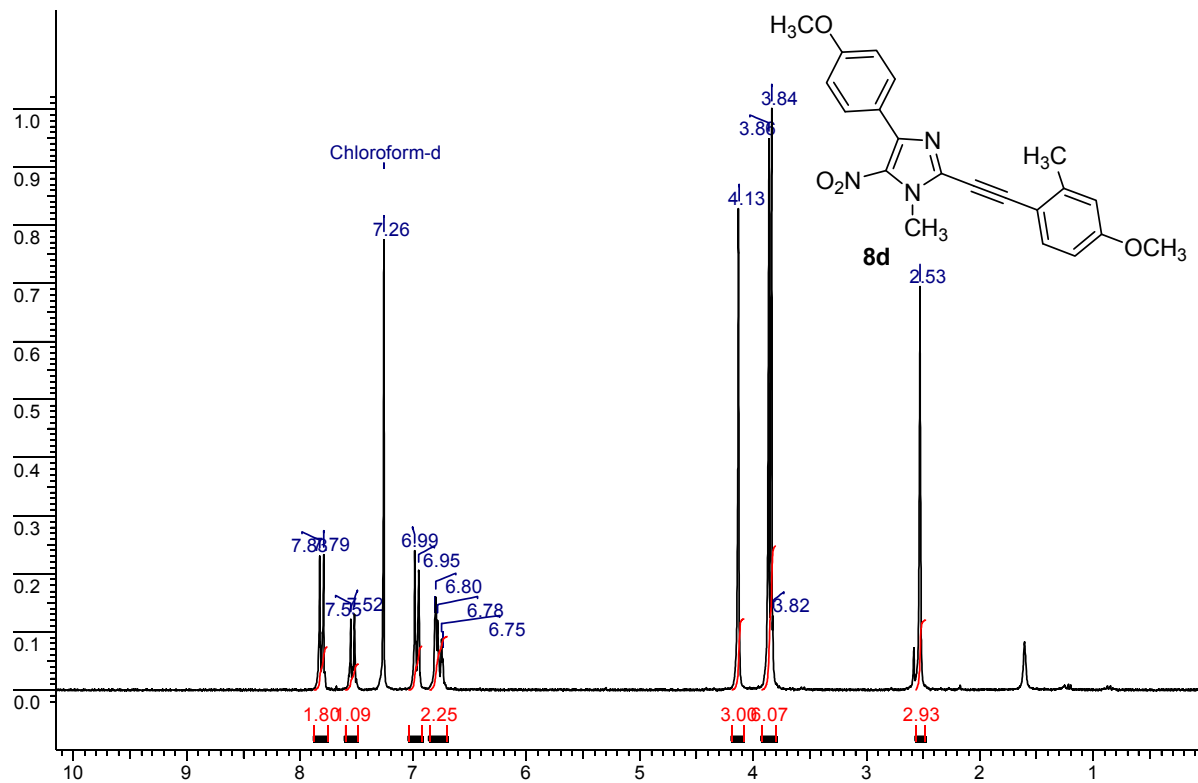


Figure S51. ¹H-NMR spectra of **8d**

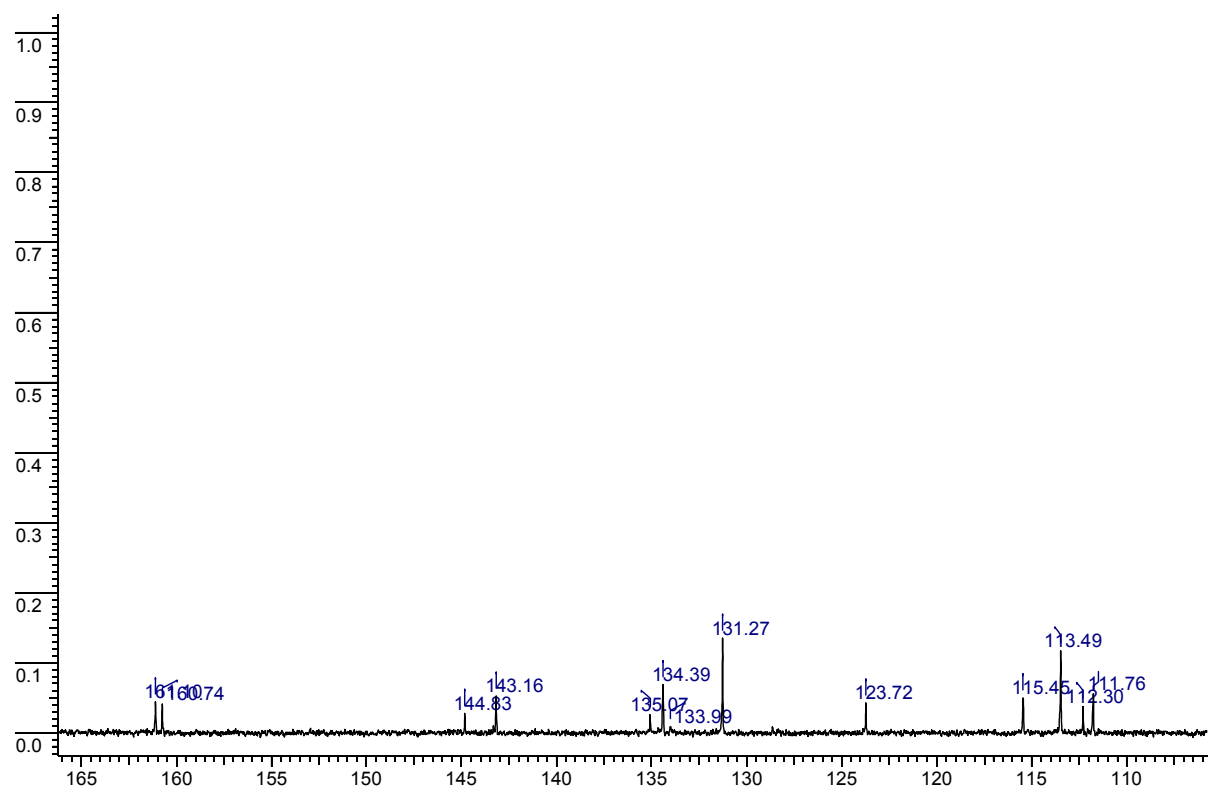
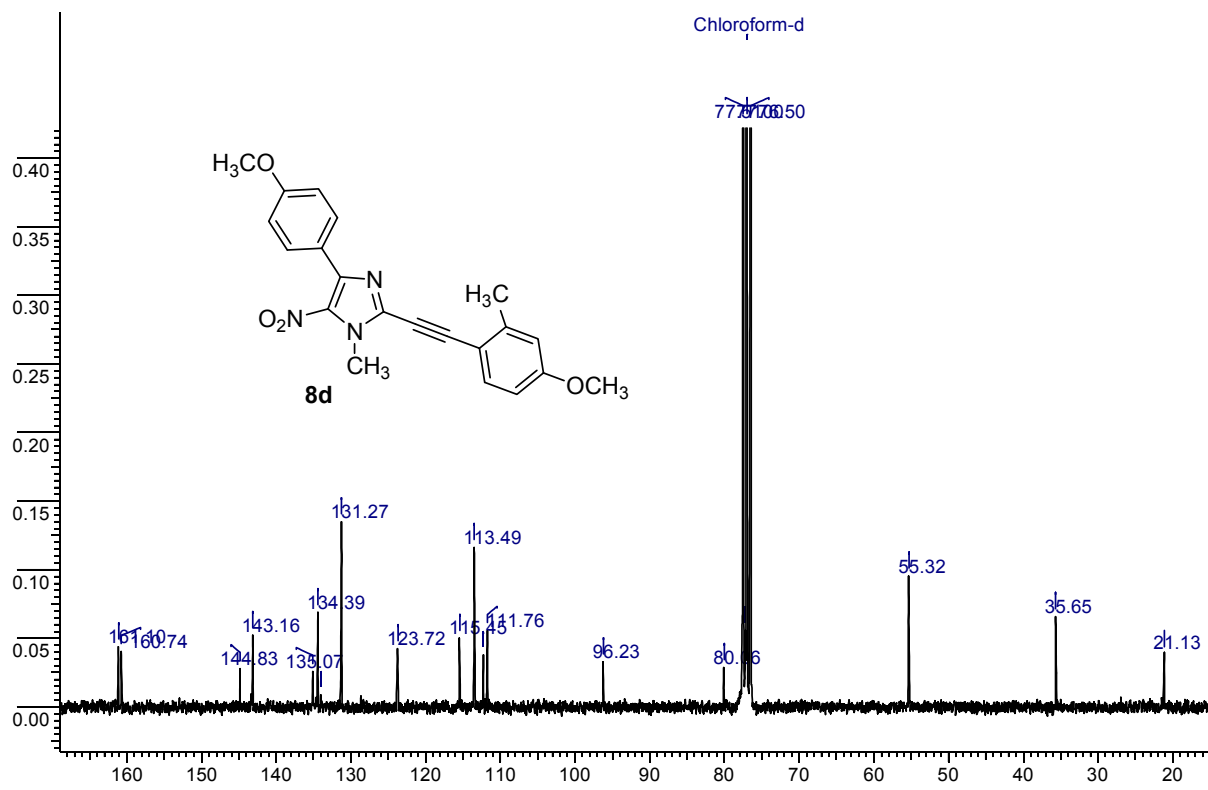


Figure S52. ¹³C-NMR spectra of **8d**

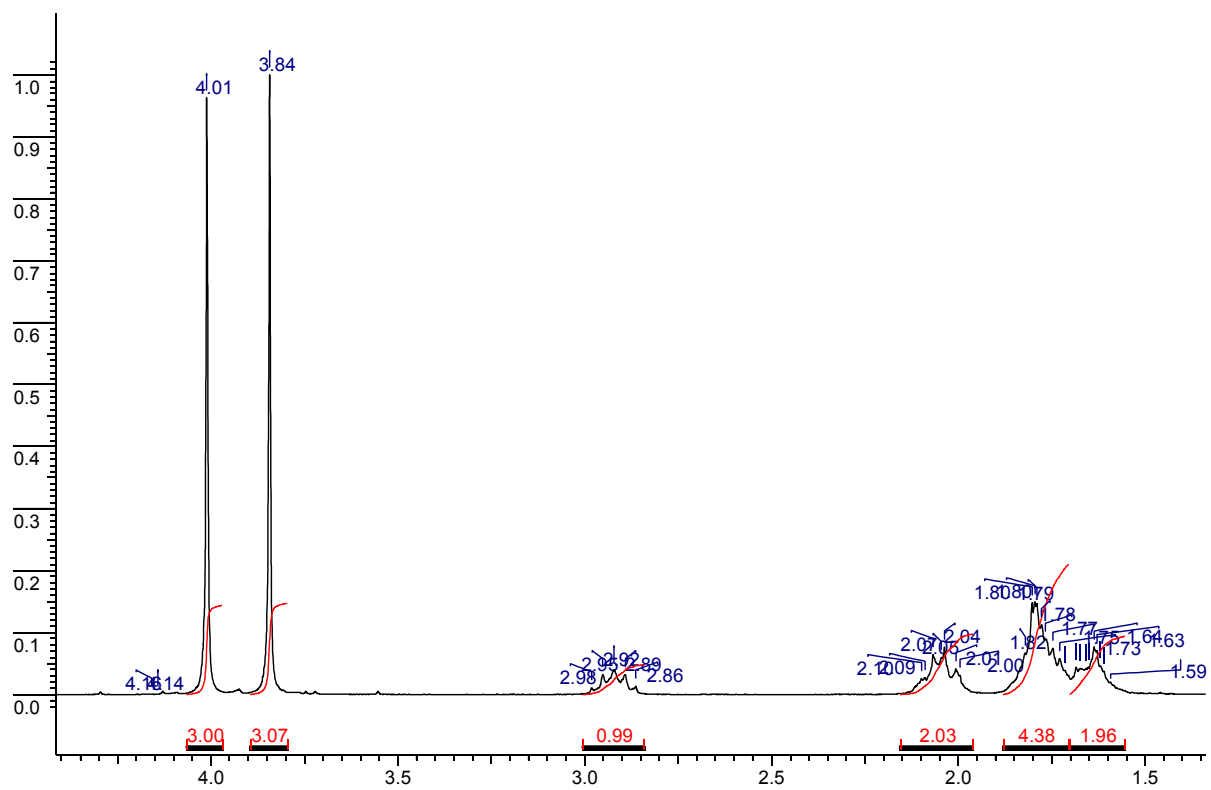
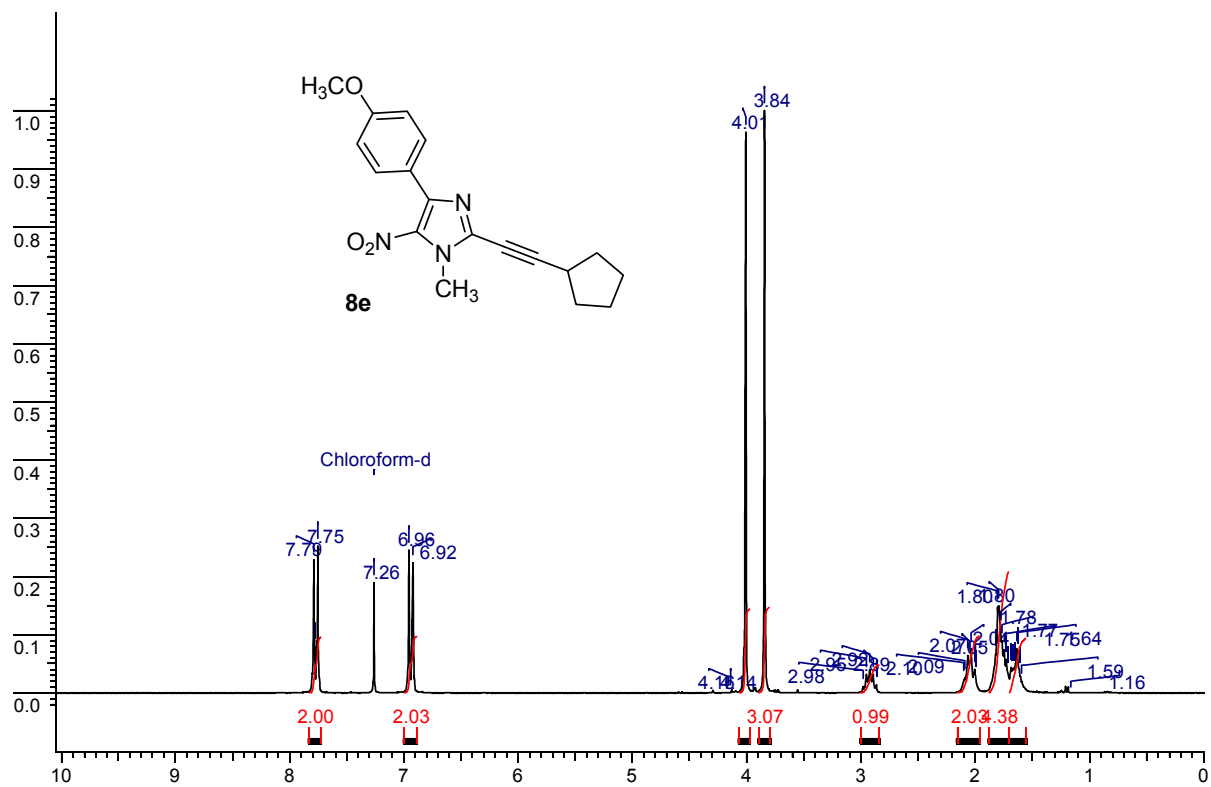


Figure S53. ¹H-NMR spectra of **8e**

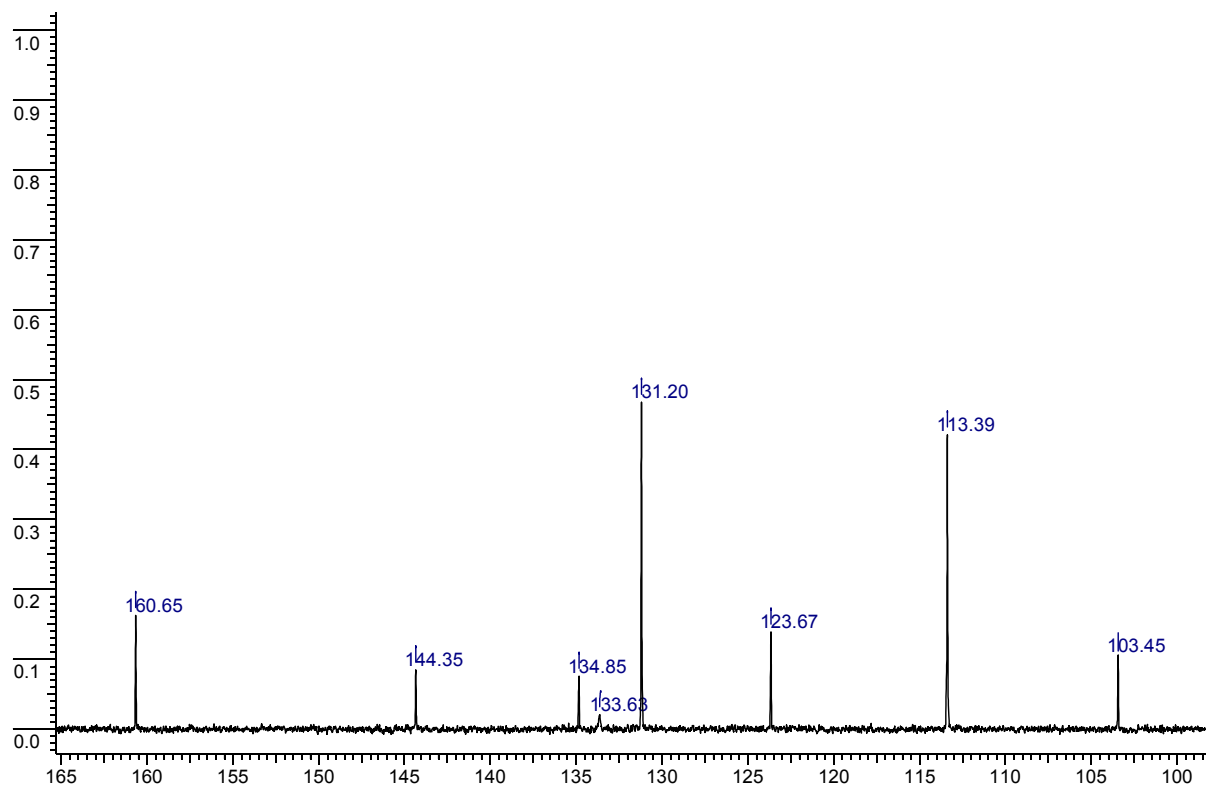
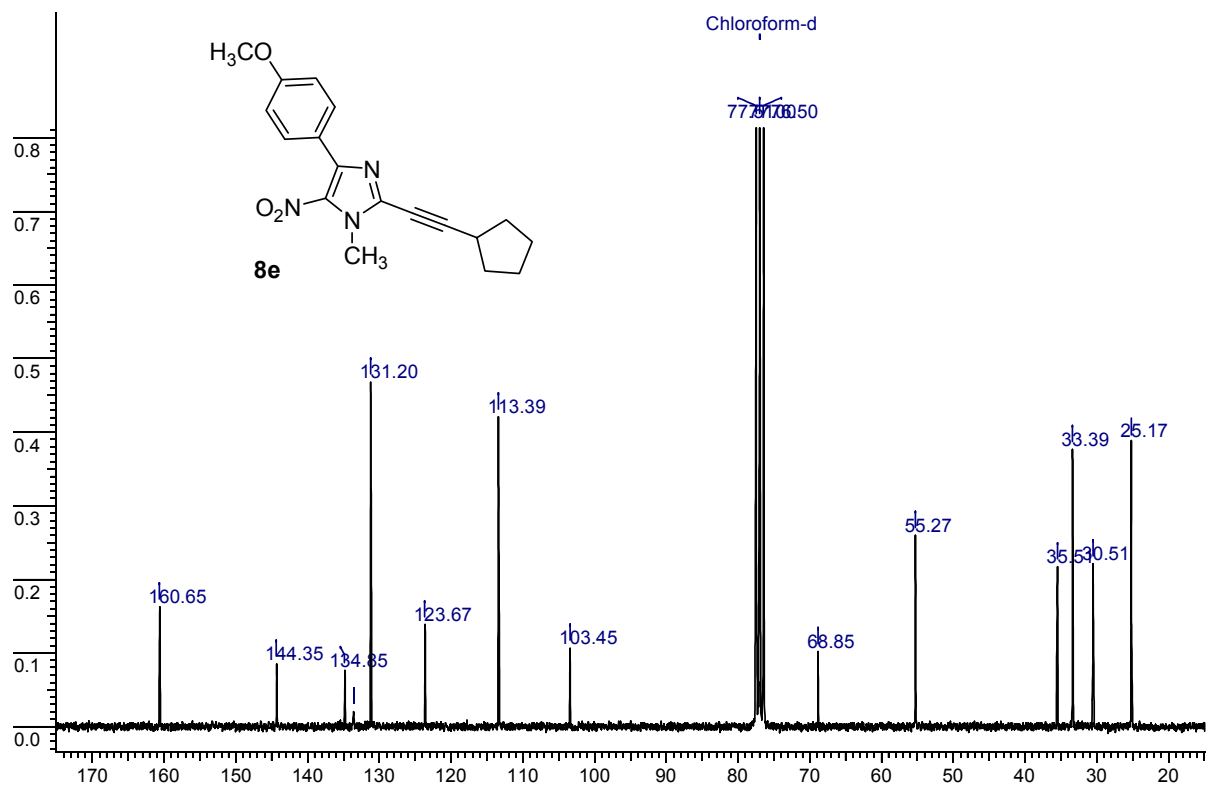


Figure S54. ¹³C-NMR spectra of **8e**

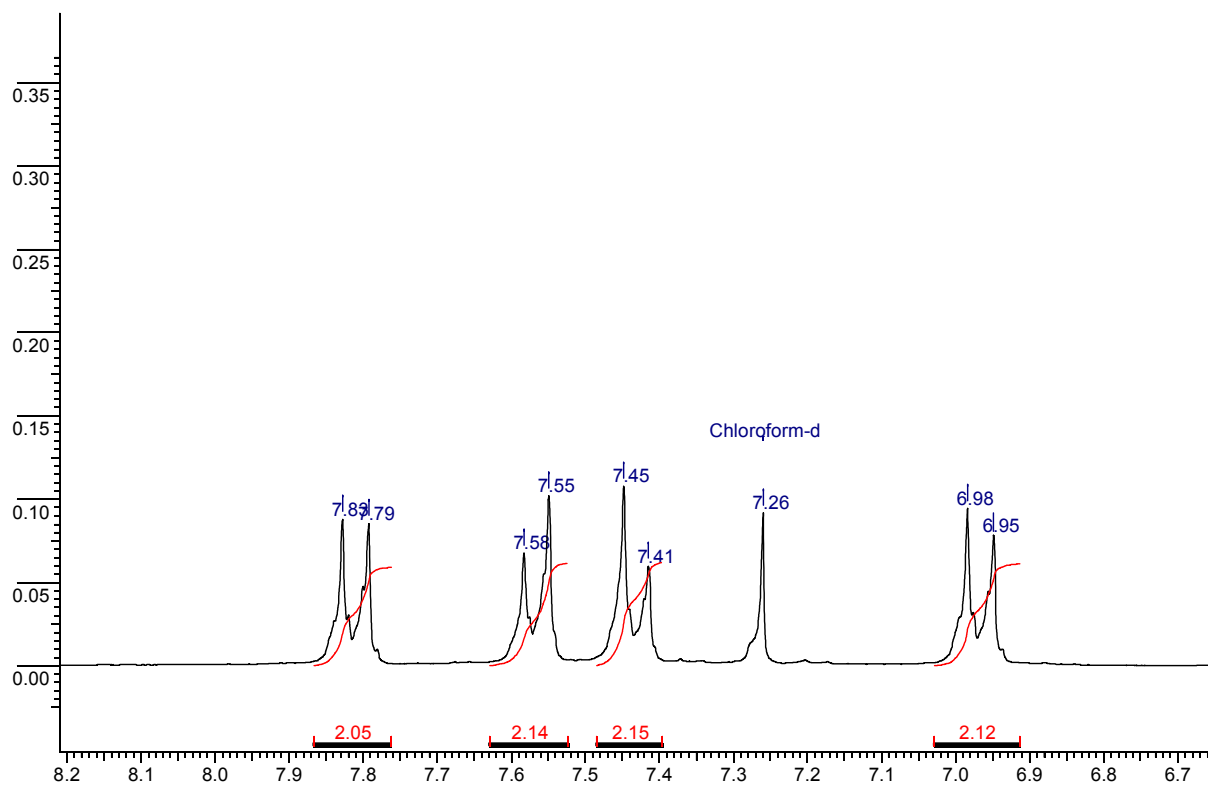
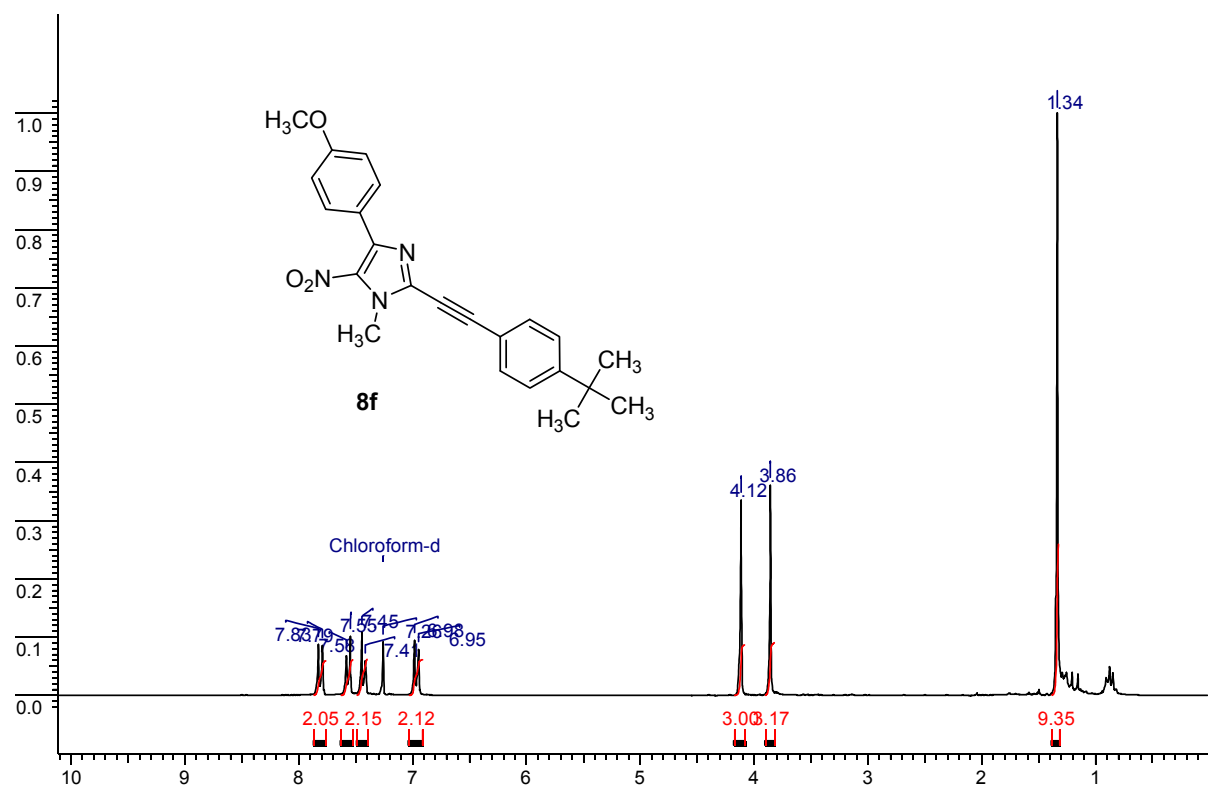


Figure S55. ¹H-NMR spectra of **8f**

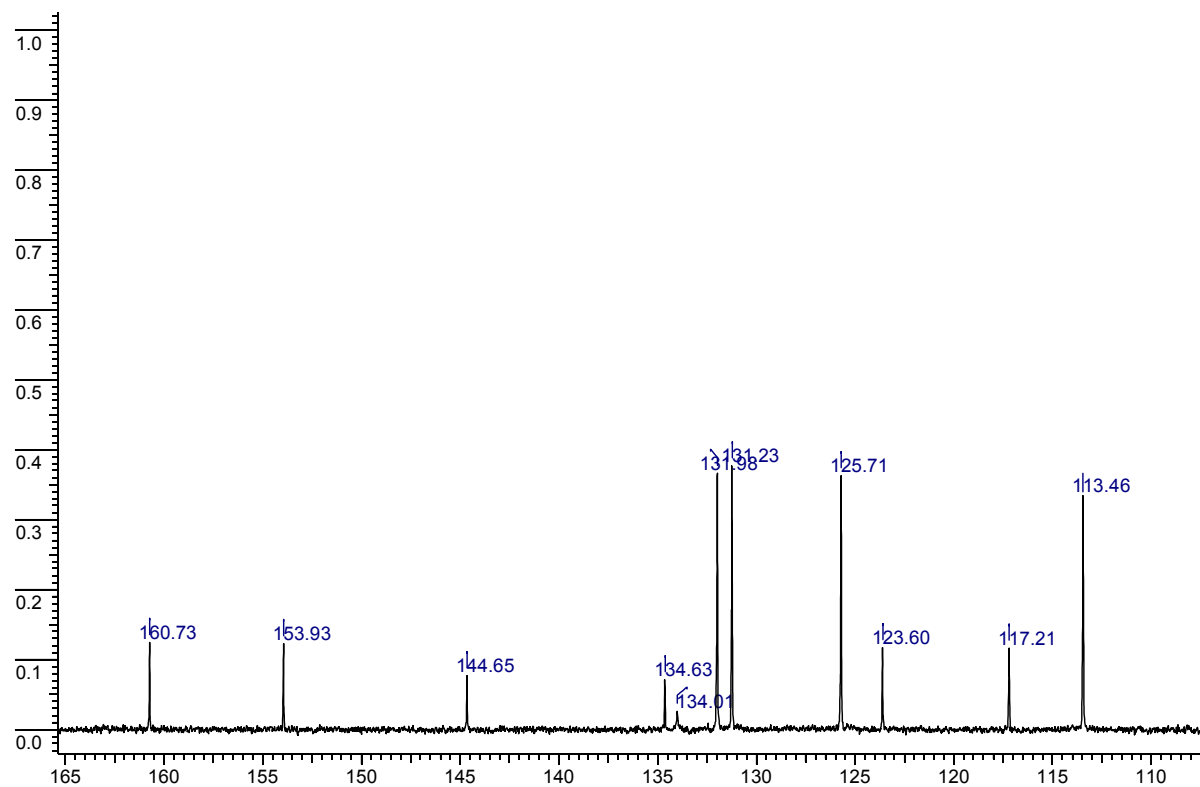
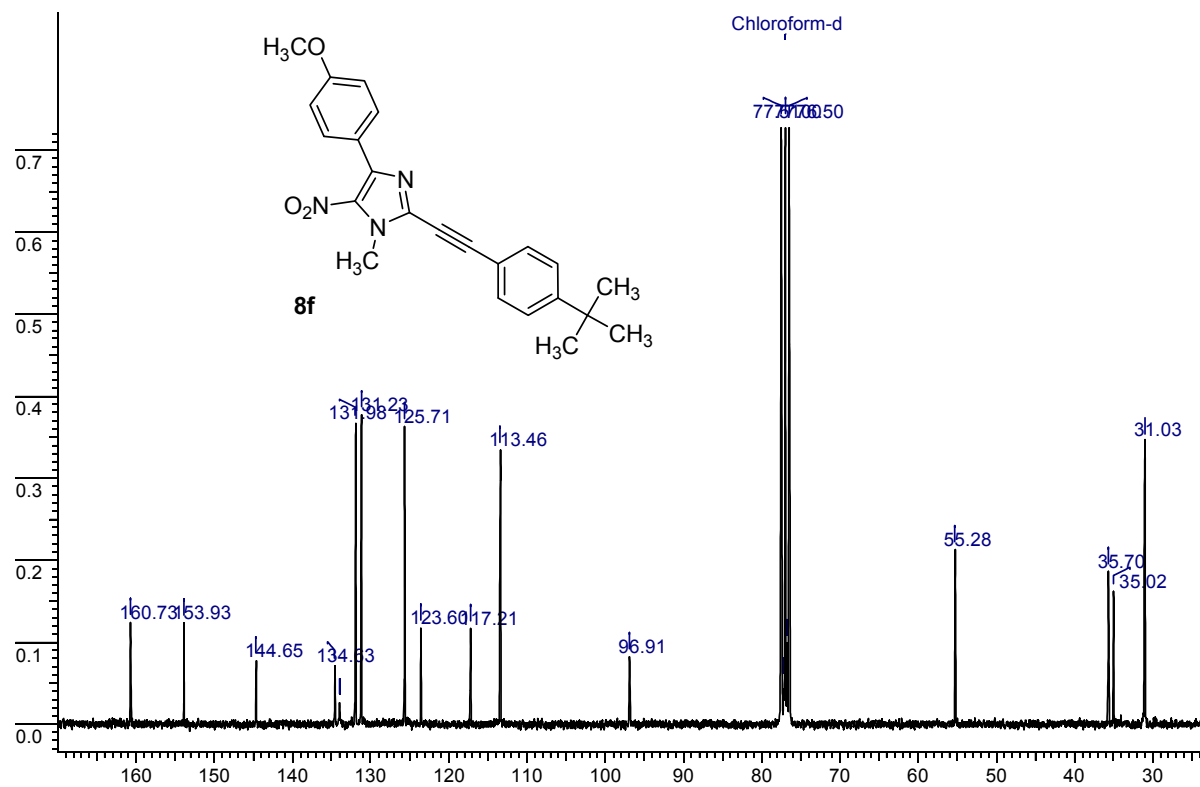


Figure S56. ^{13}C -NMR spectra of **8f**

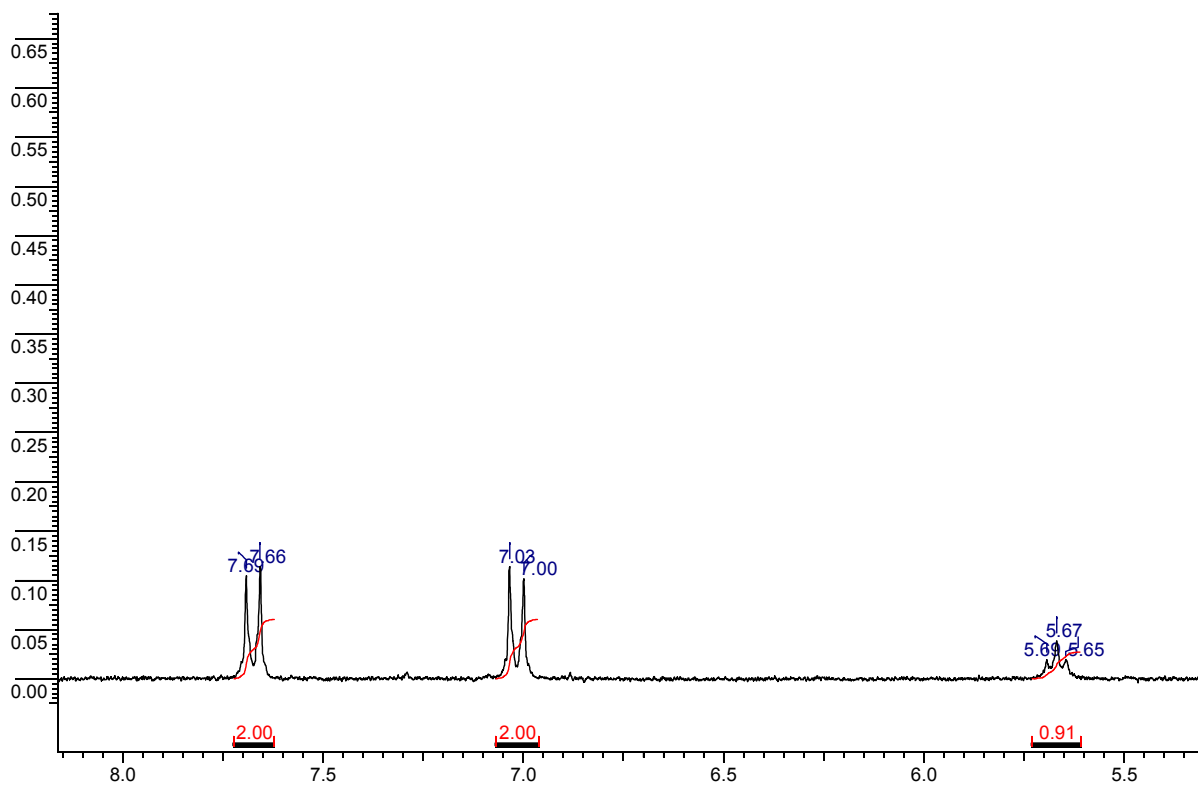
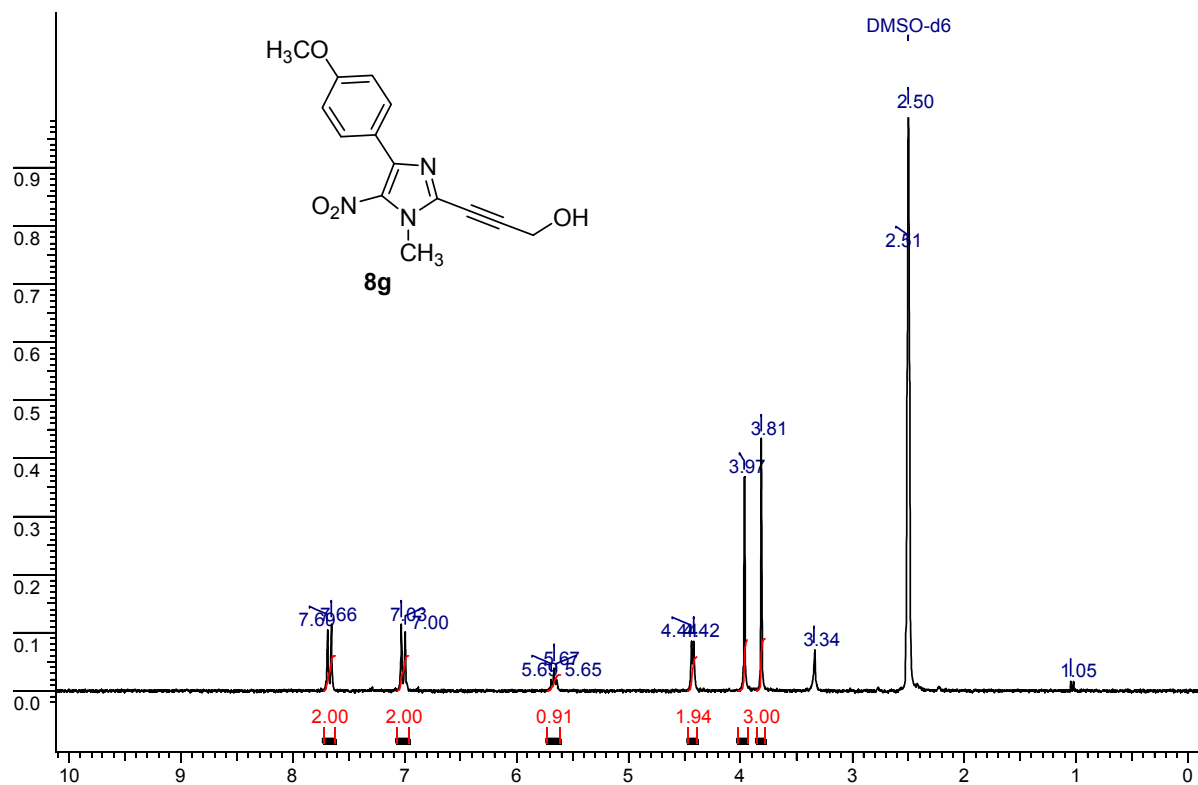


Figure S57. ¹H-NMR spectra of **8g**

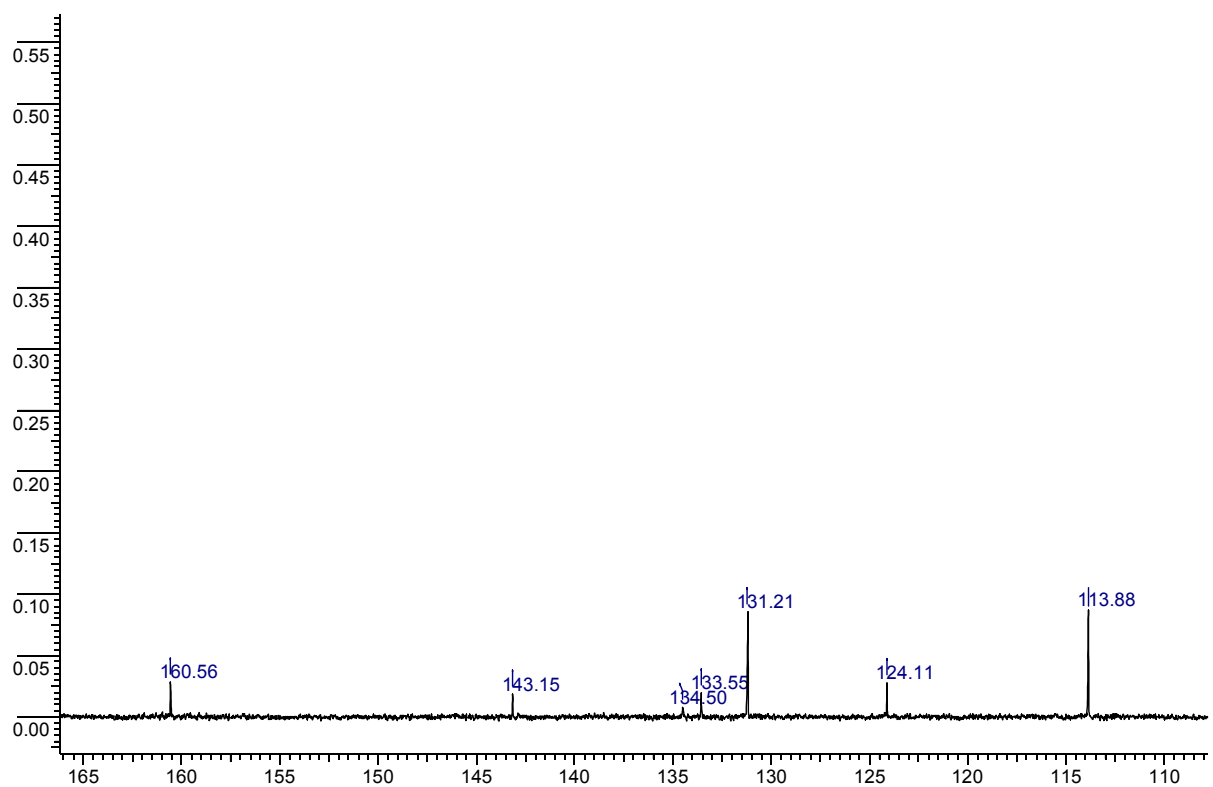
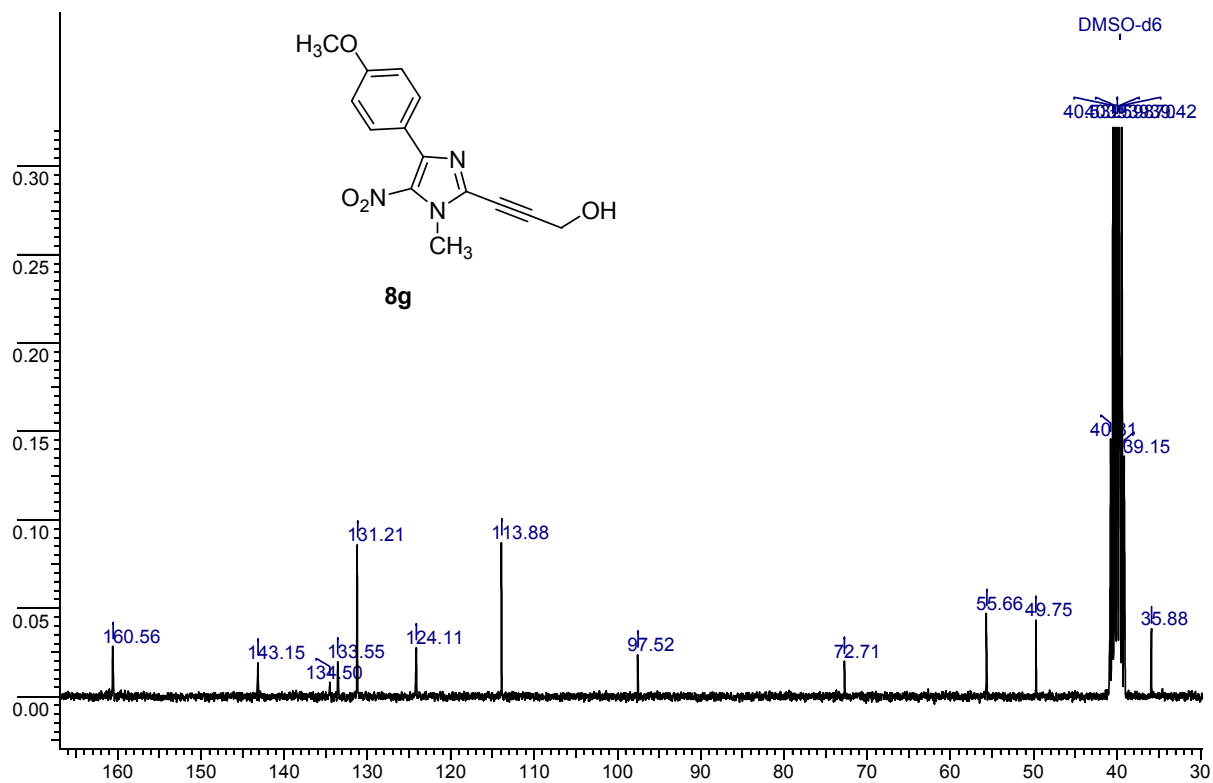


Figure S58. ^{13}C -NMR spectra of **8g**

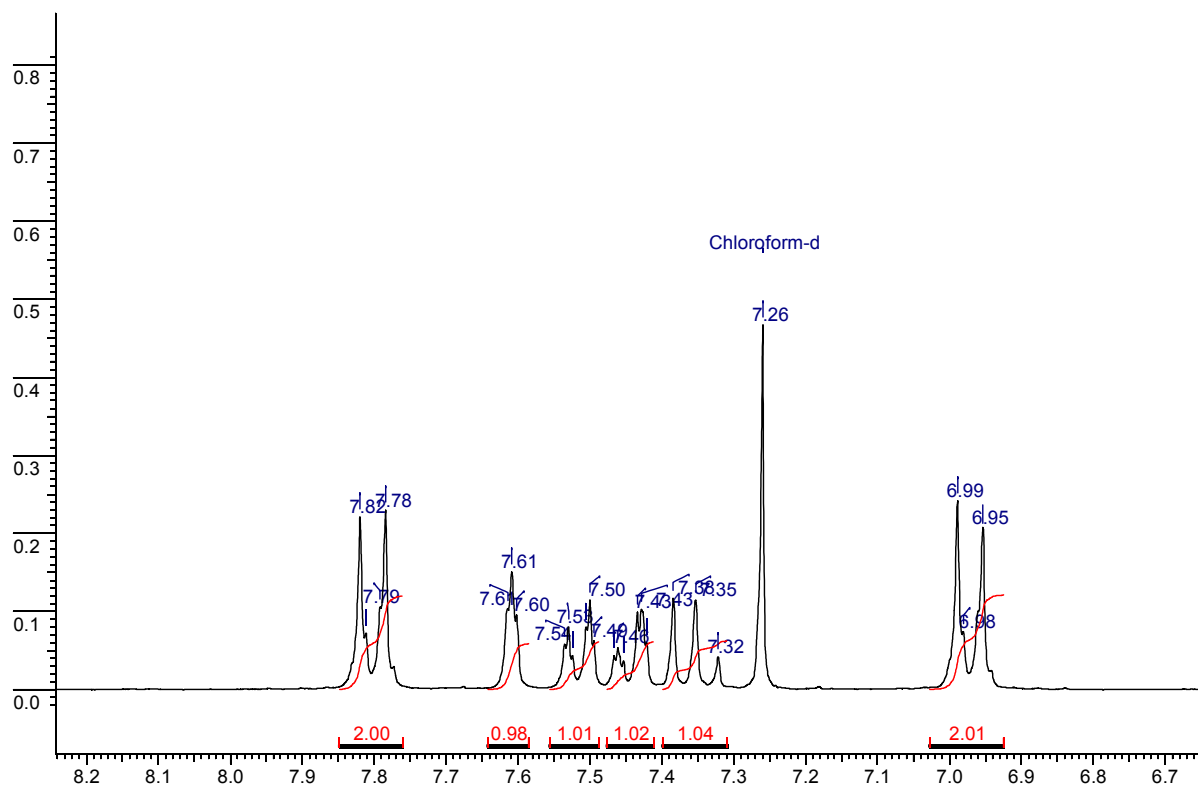
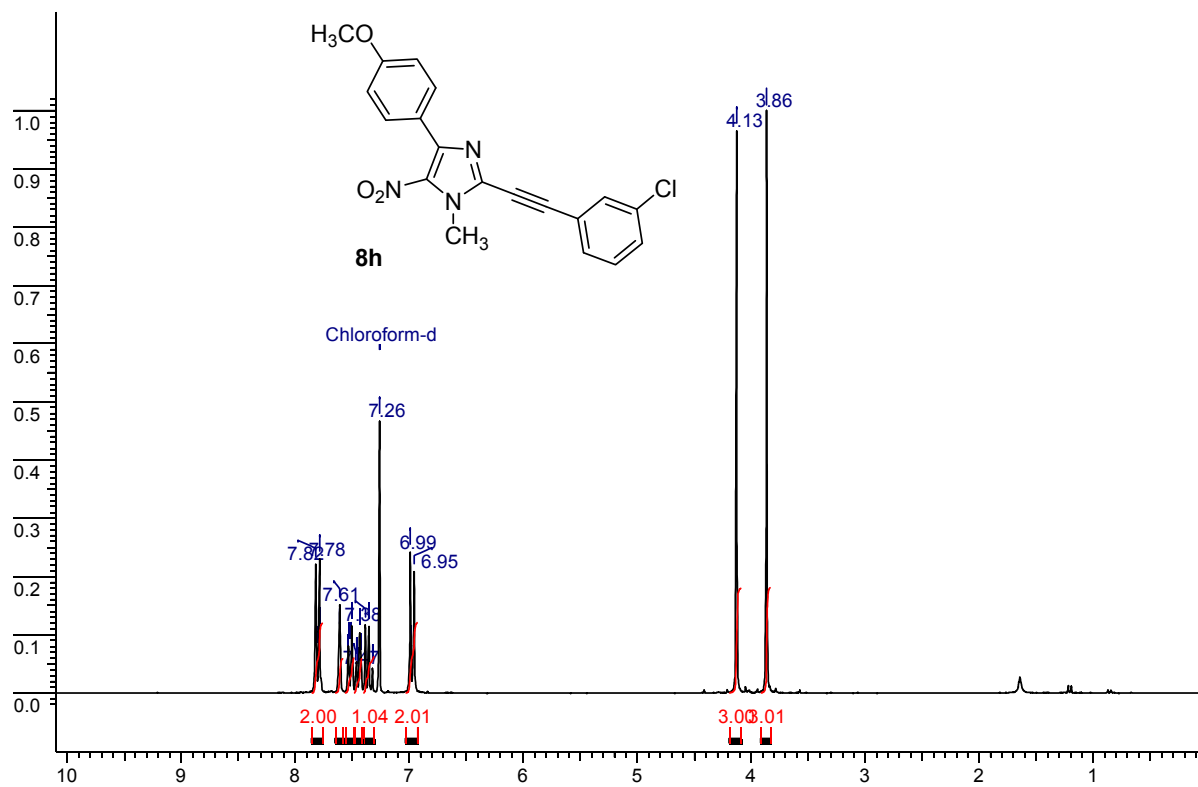


Figure S59. $^1\text{H-NMR}$ spectra of **8h**

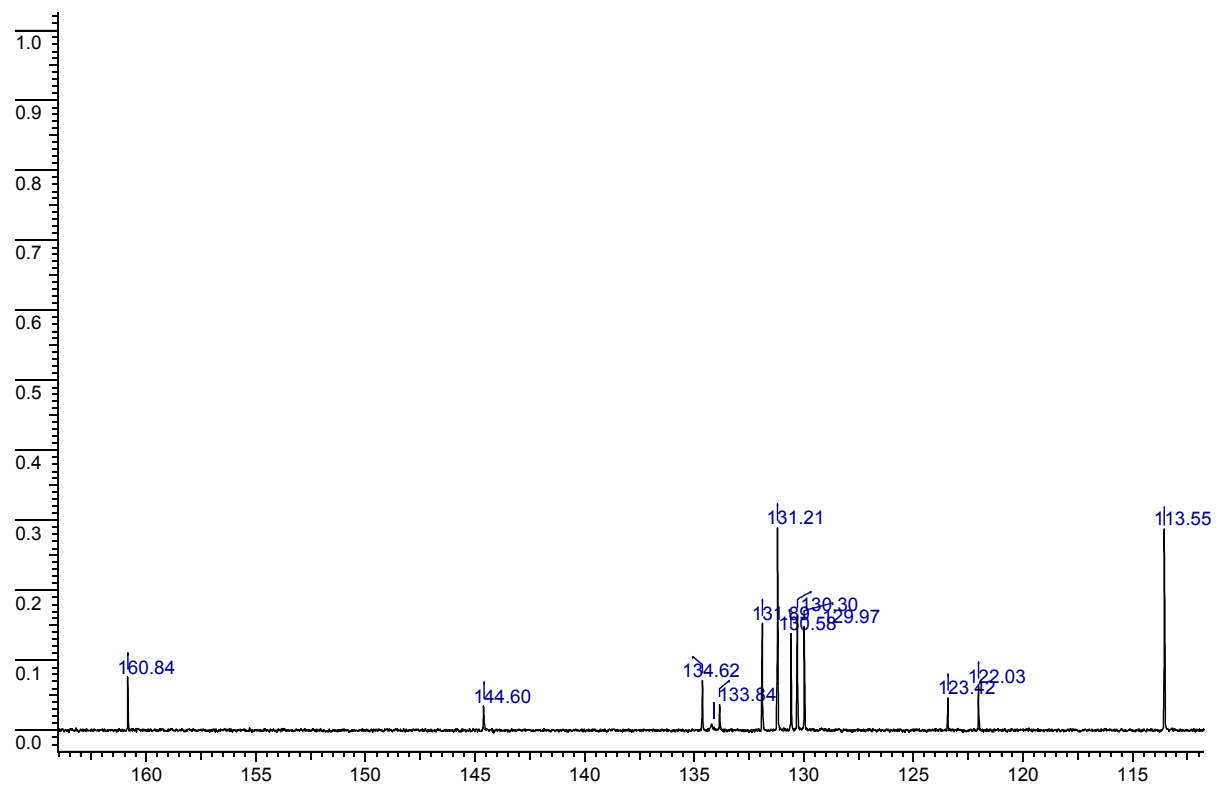
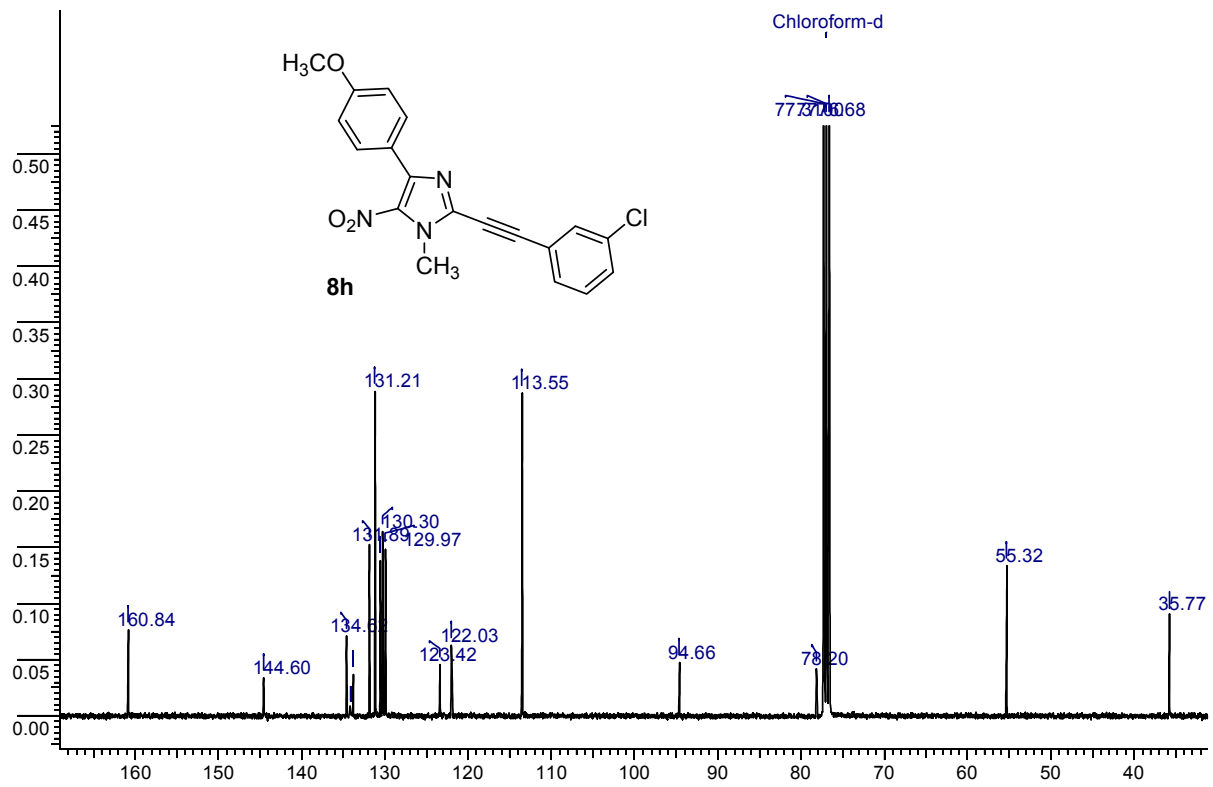


Figure S60. ¹³C-NMR spectra of **8h**

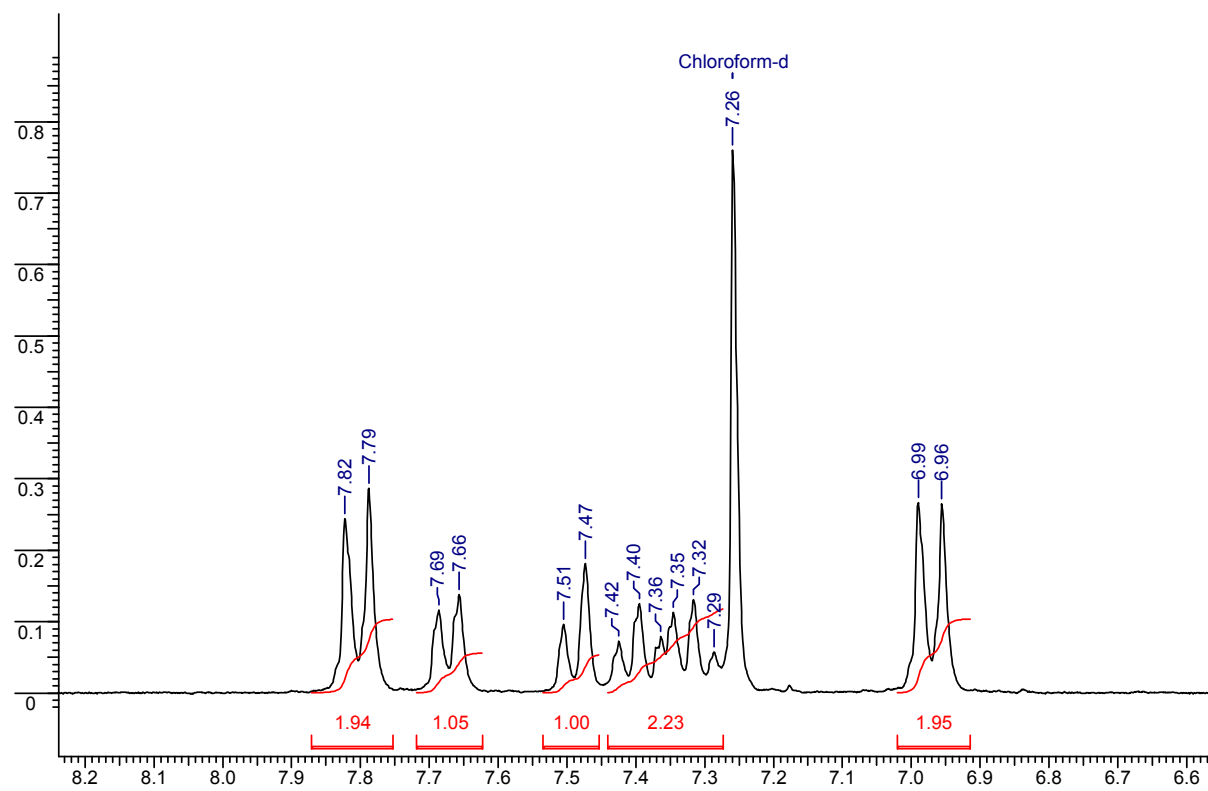
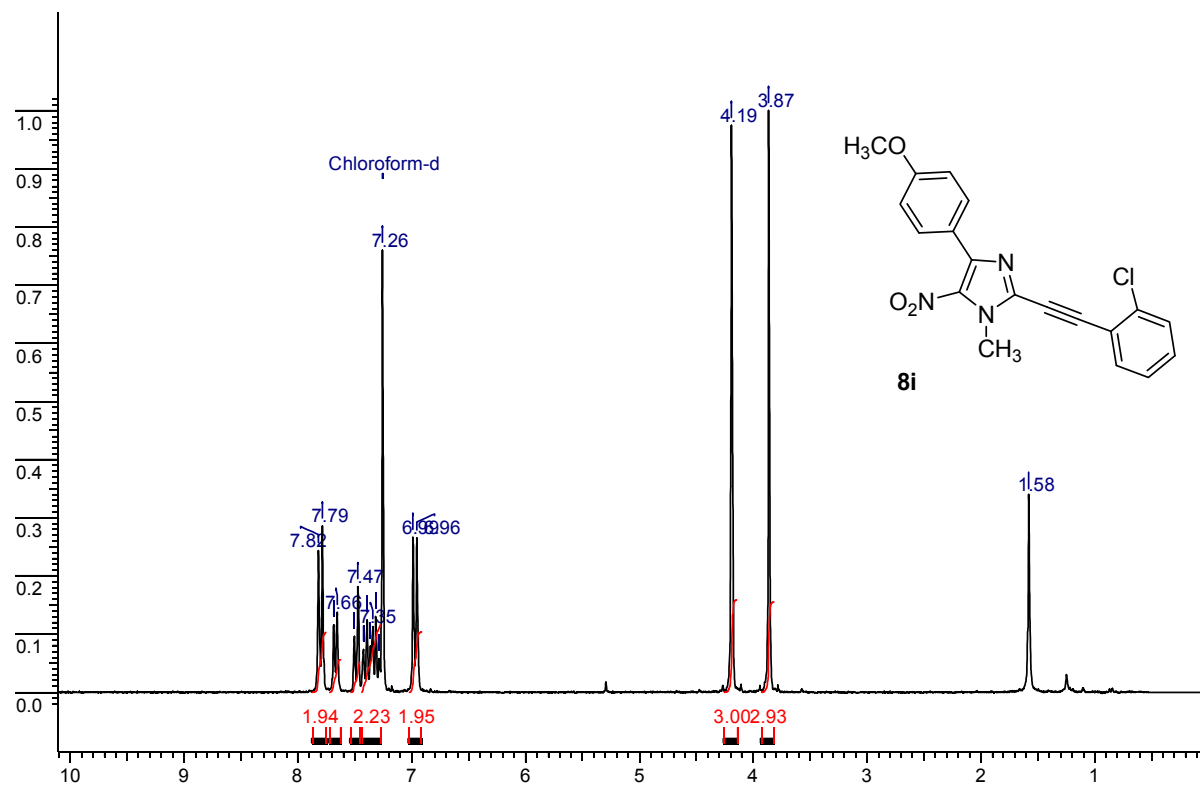


Figure S61. ¹H-NMR spectra of **8i**

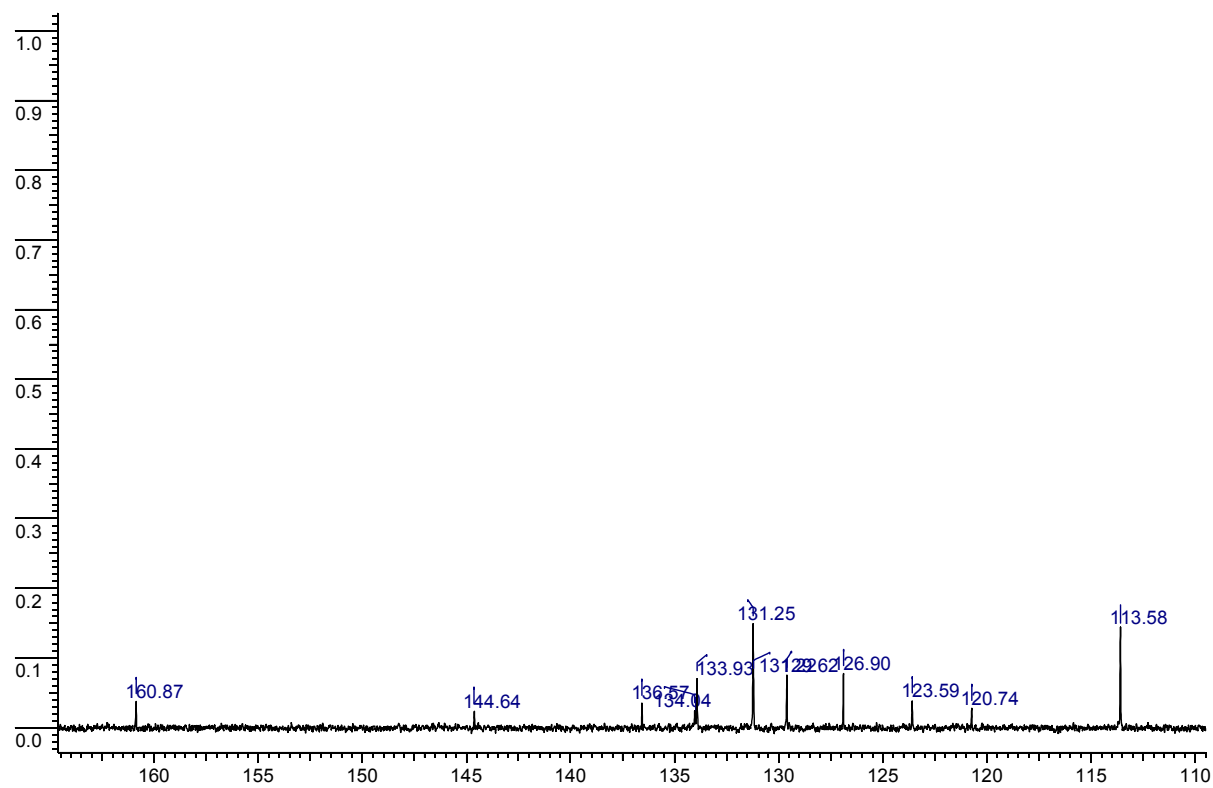
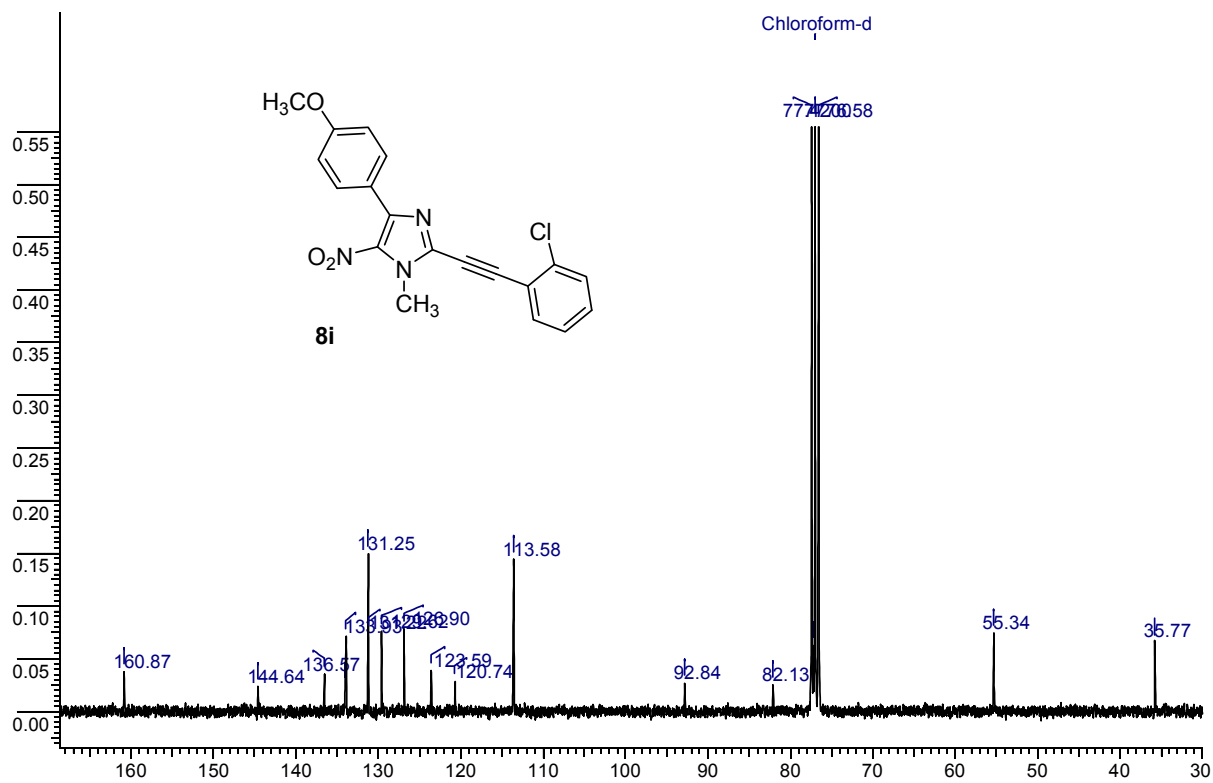


Figure S62. ^{13}C -NMR spectra of **8i**

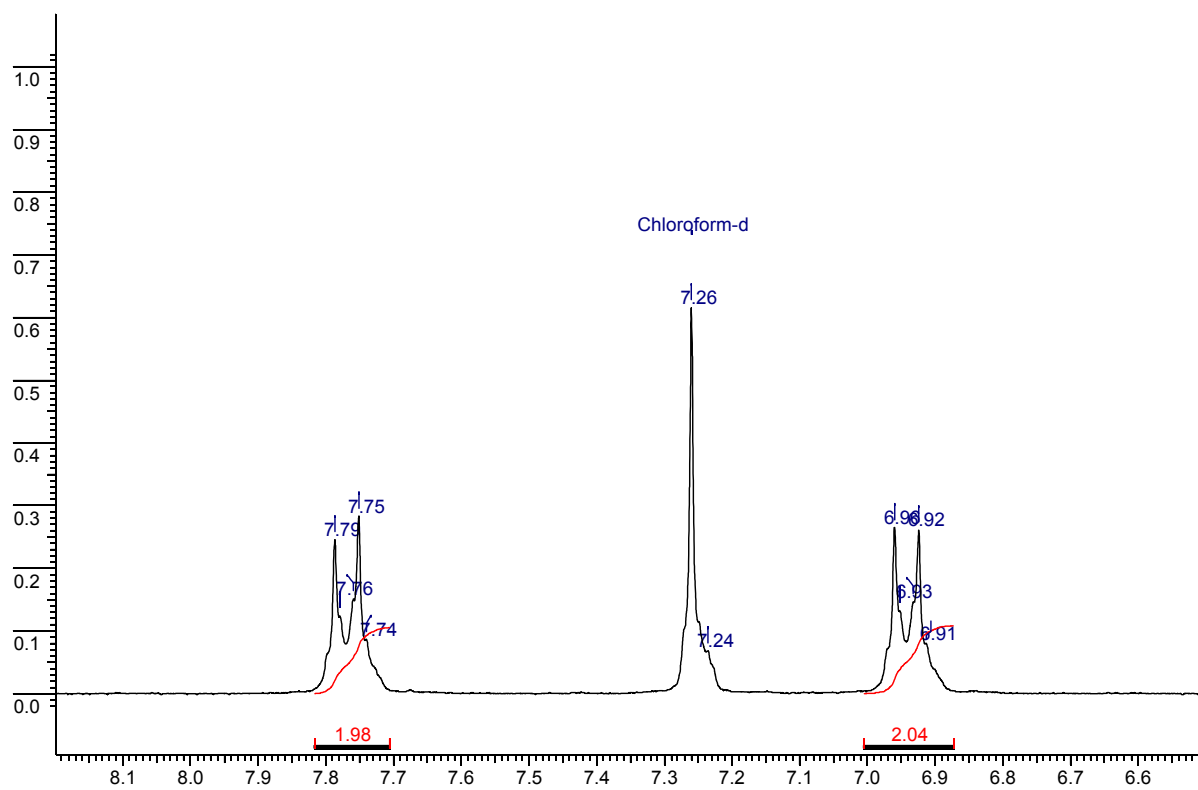
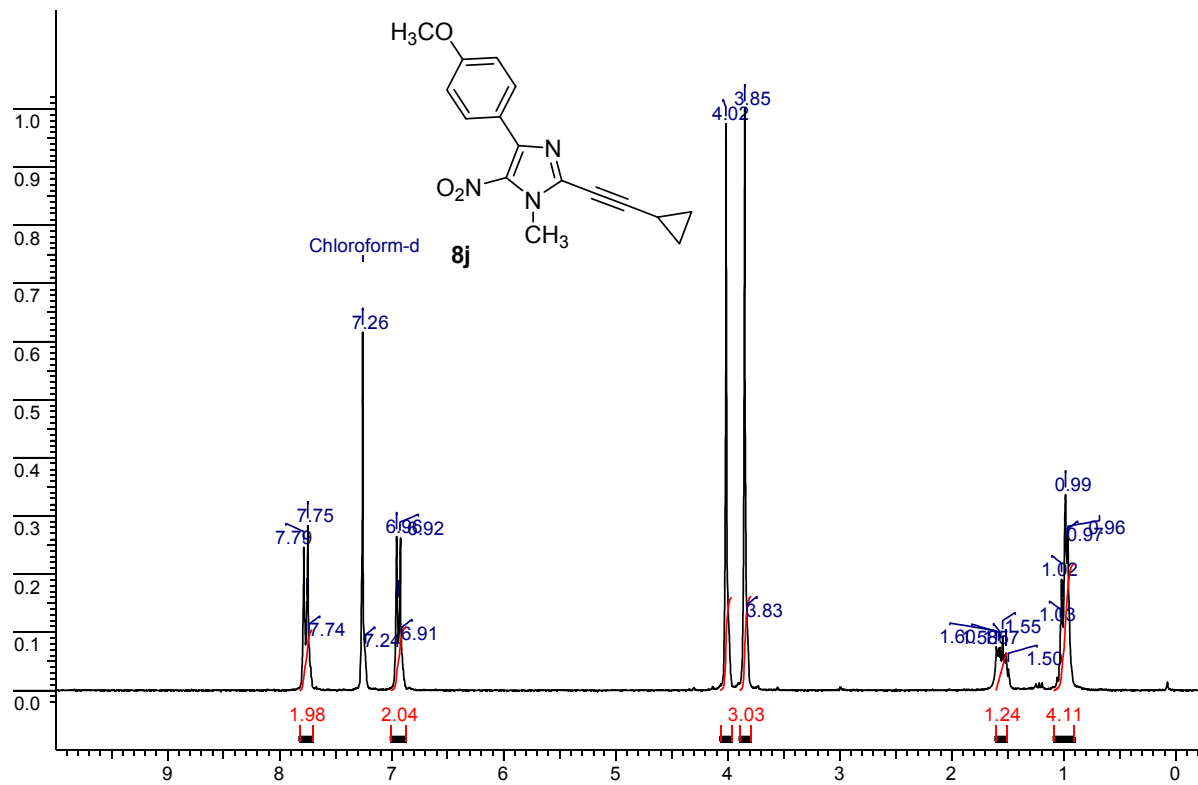


Figure S63. $^1\text{H-NMR}$ spectra of **8j**

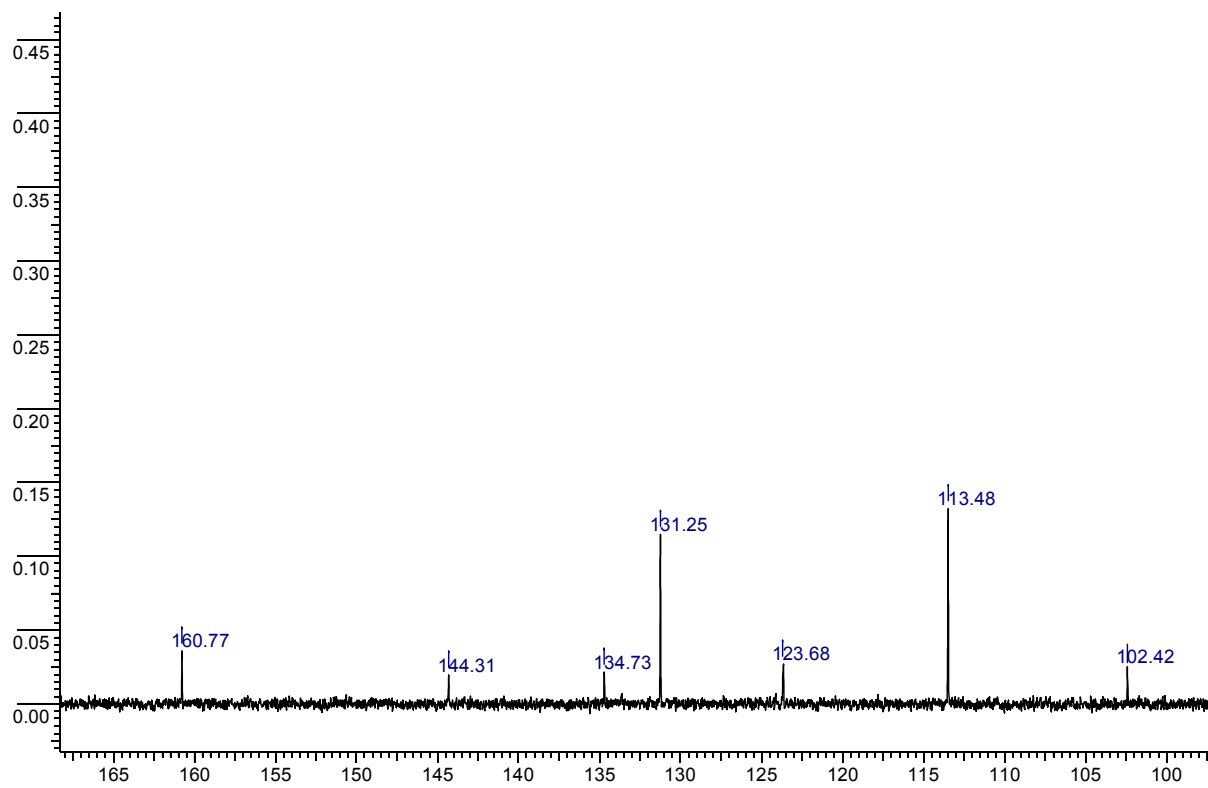
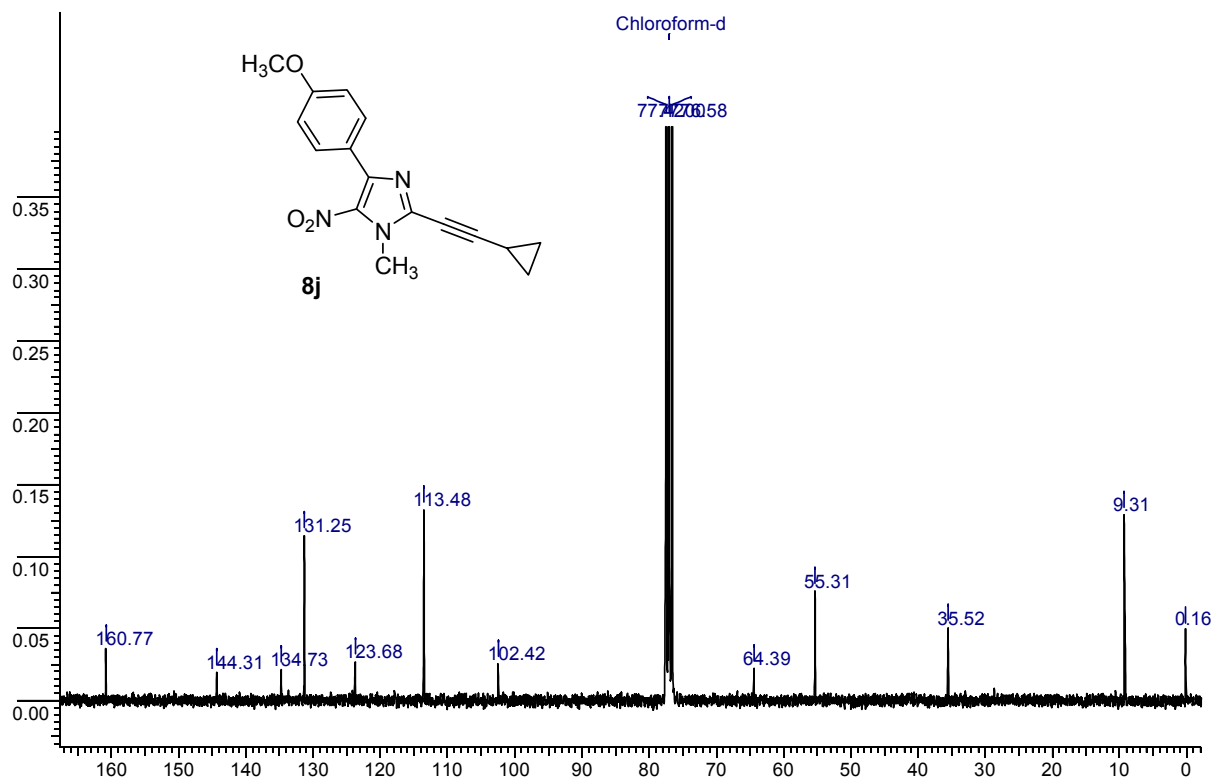


Figure S64. ^{13}C -NMR spectra of **8j**

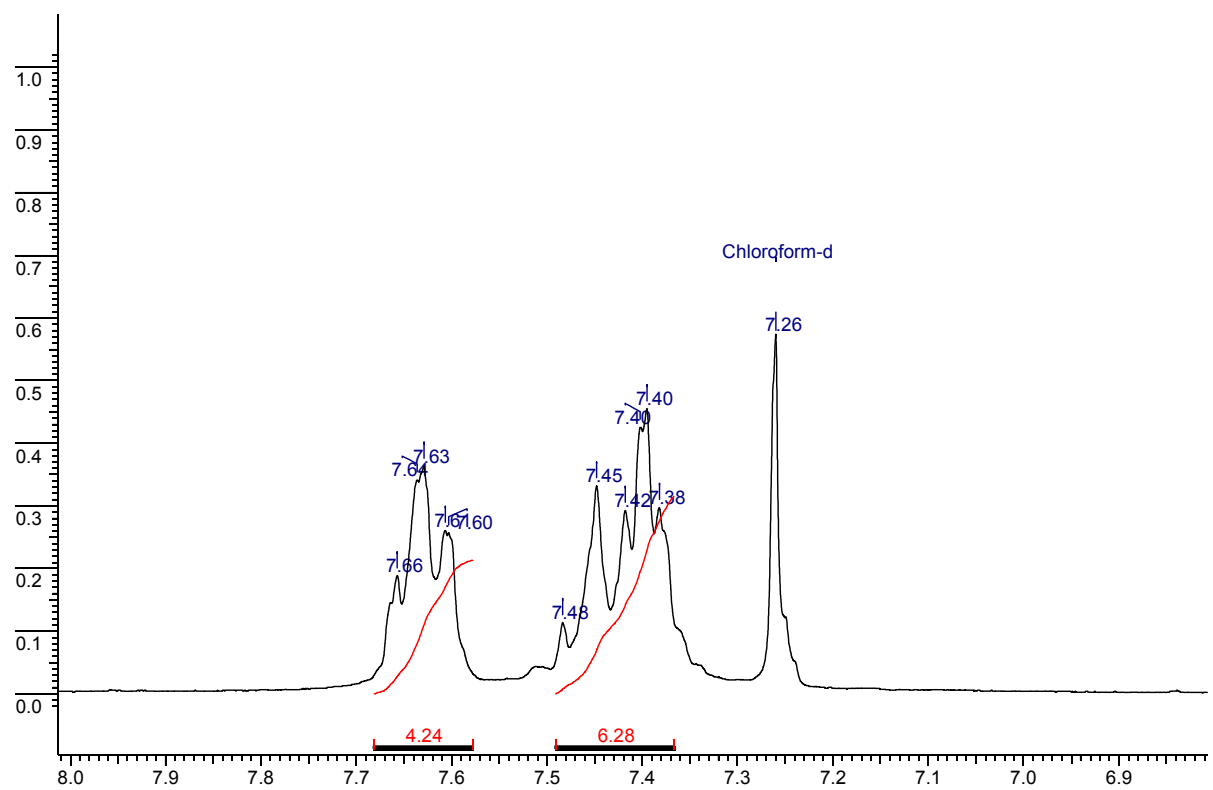
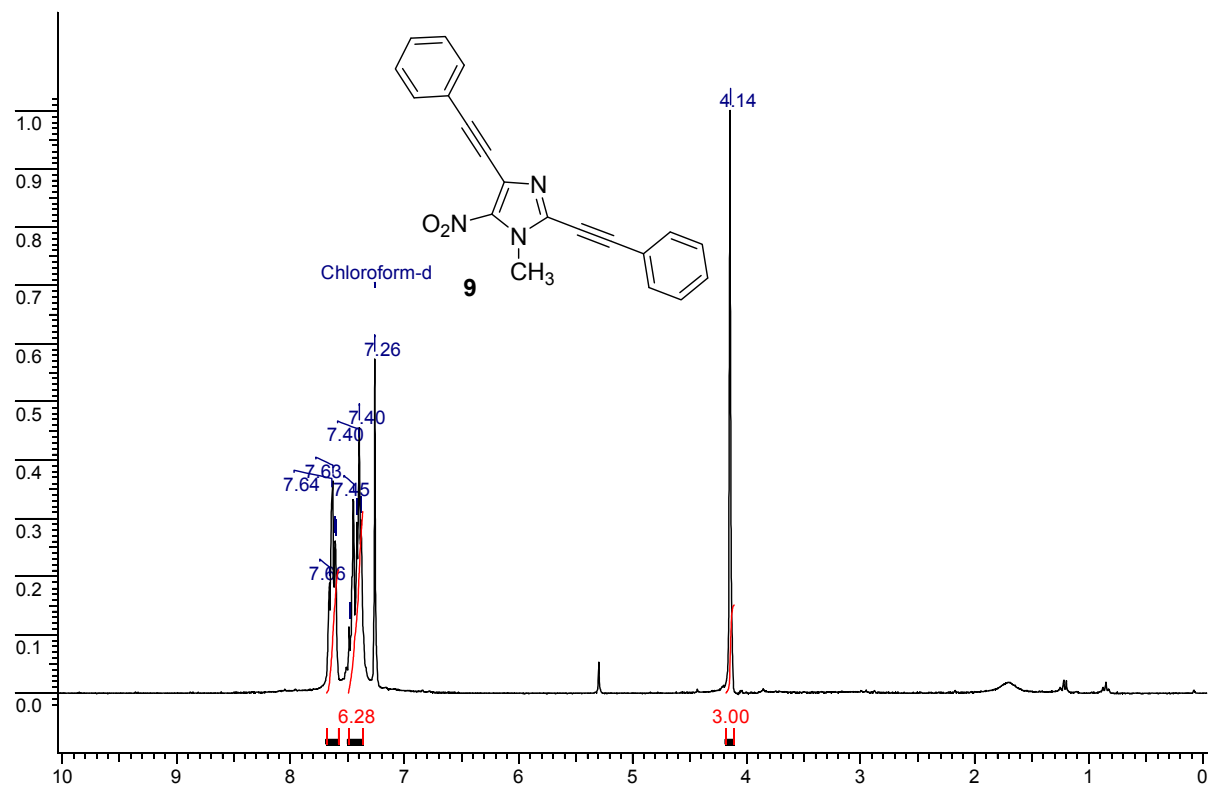


Figure S65. $^1\text{H-NMR}$ spectra of **9**

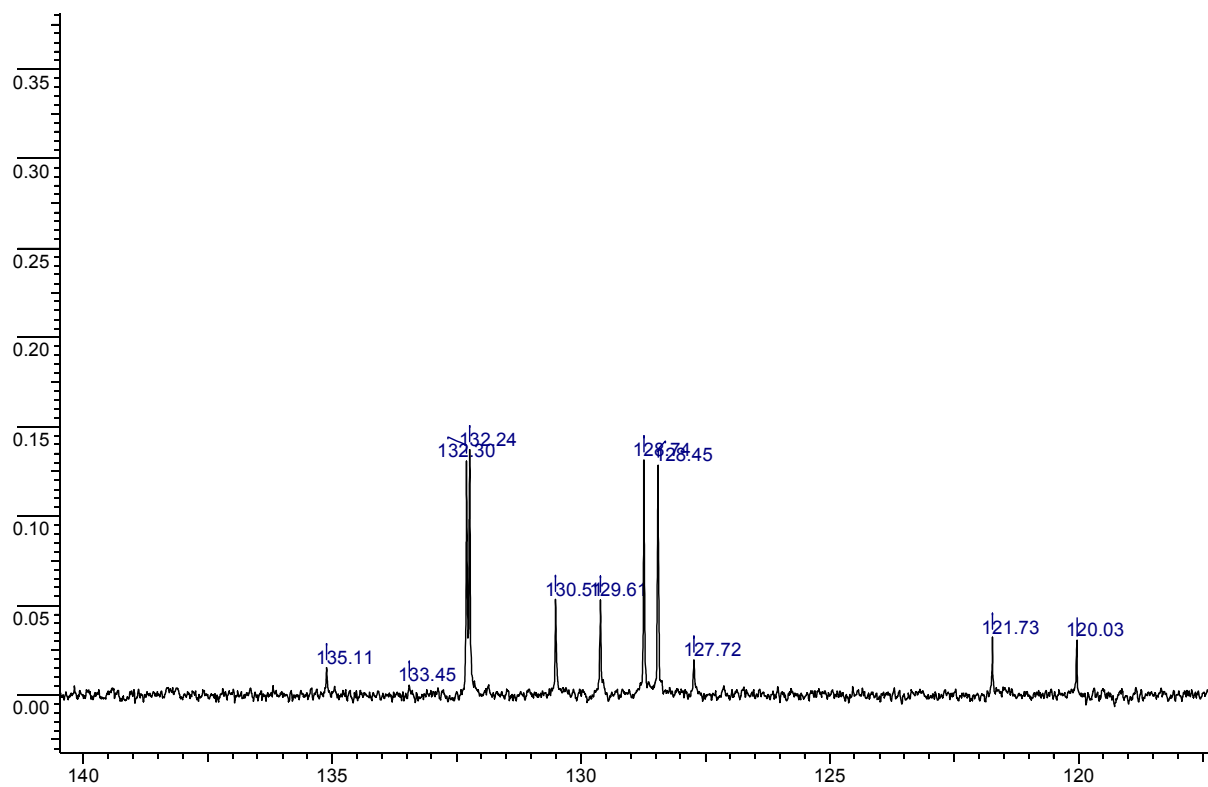
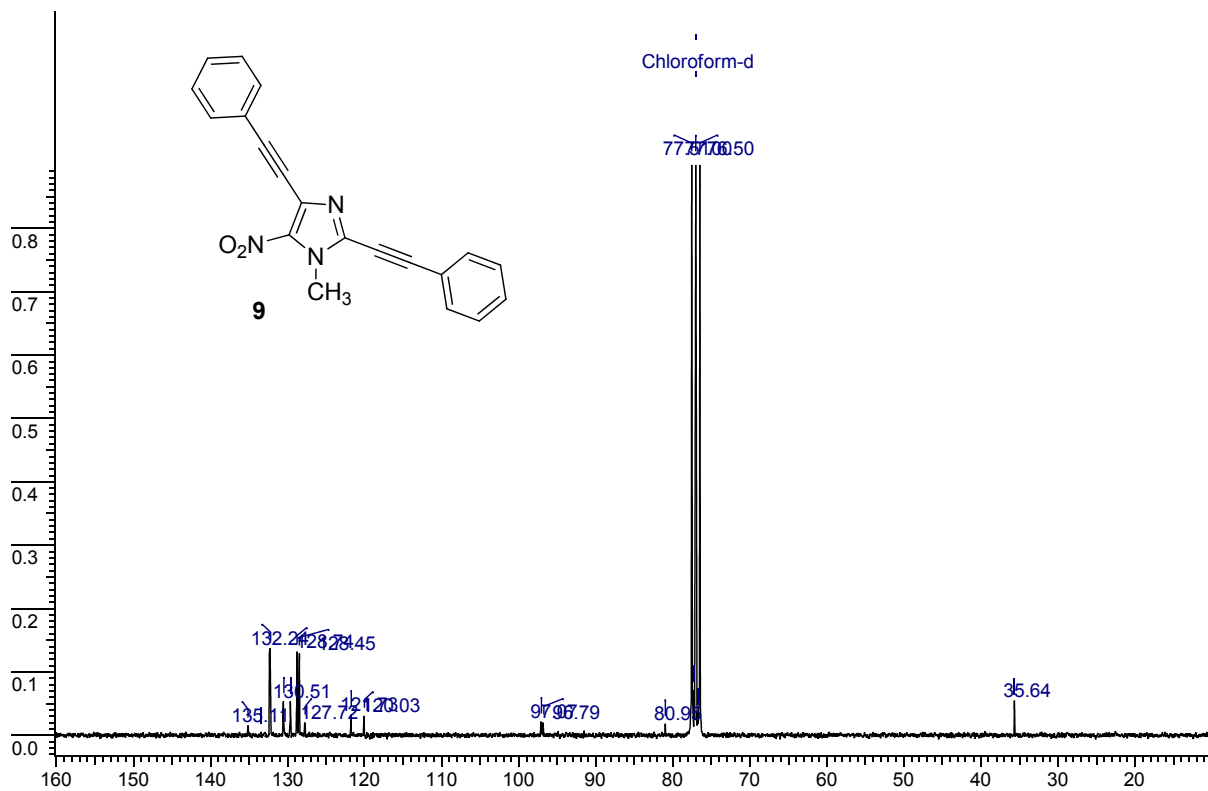


Figure S66. ¹³C-NMR spectra of **9**