

Supplementary Material

Reactions of 4-substituted-1-[(difluoromethyl)sulfinyl]polyfluorobenzenes with phenolate anion

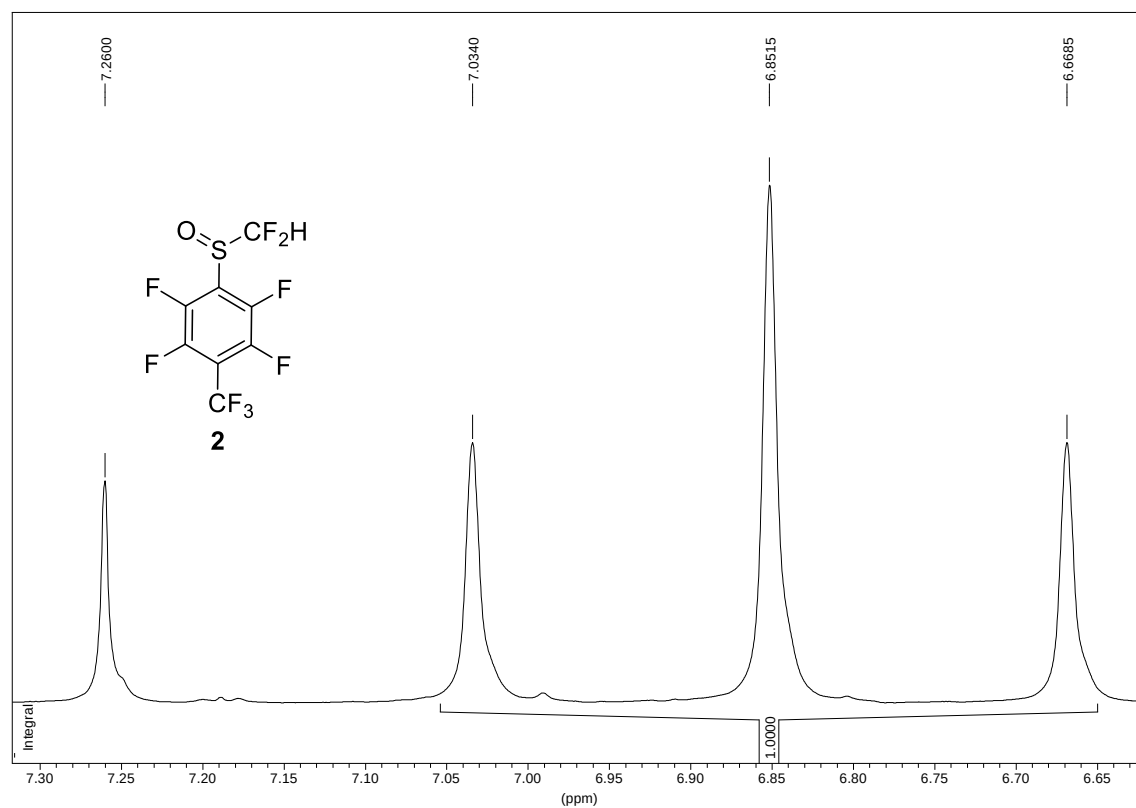
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1. ^1H , ^{13}C and ^{19}F NMR Spectra of select compounds**Figure S1.** ^1H NMR (300.13 MHz, CDCl_3) spectrum of compound **2**

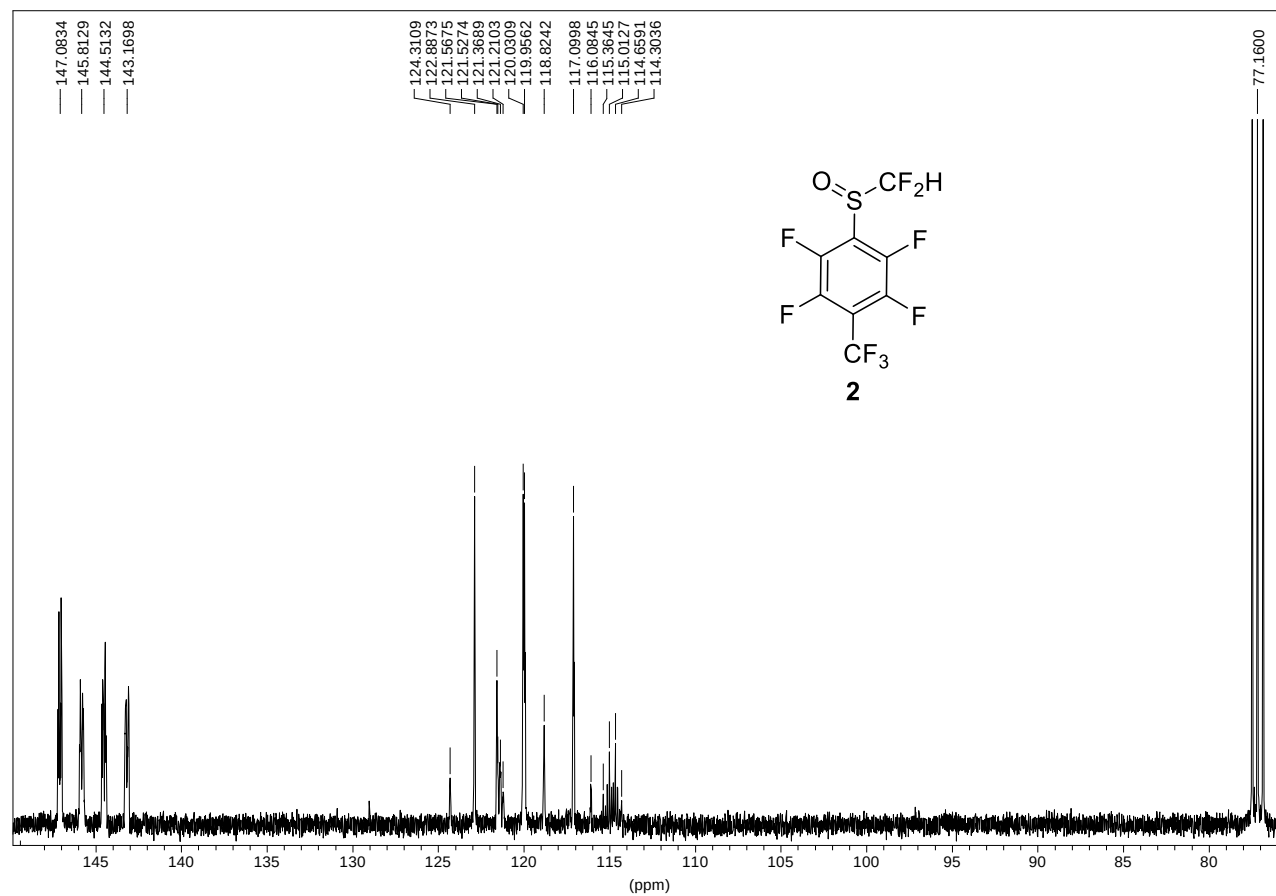


Figure S2. ^{13}C NMR (100.61 MHz, CDCl_3) spectrum of compound **2**

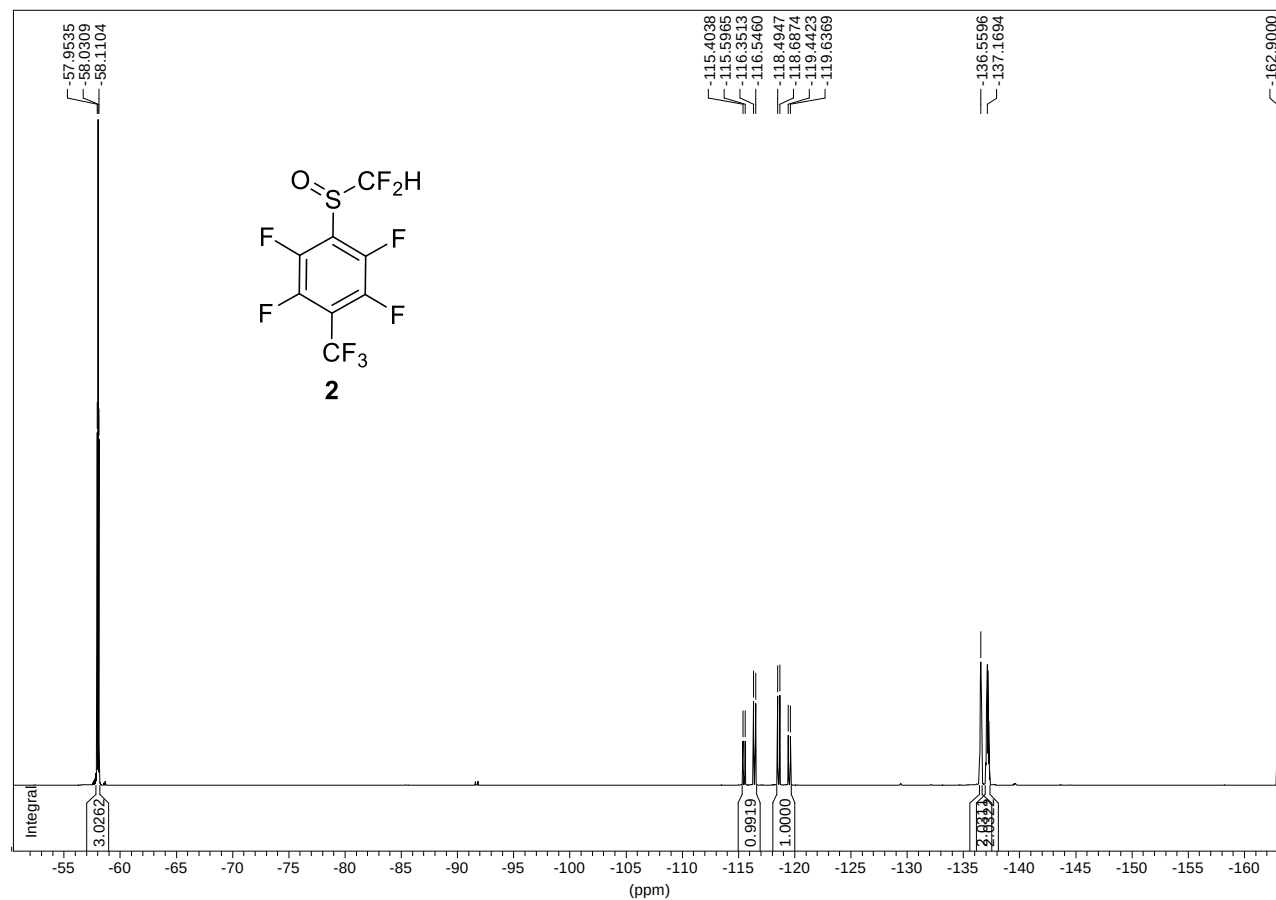


Figure S3. ¹⁹F NMR (282.40 MHz, CCl₄, CDCl₃) spectrum of compound **2**

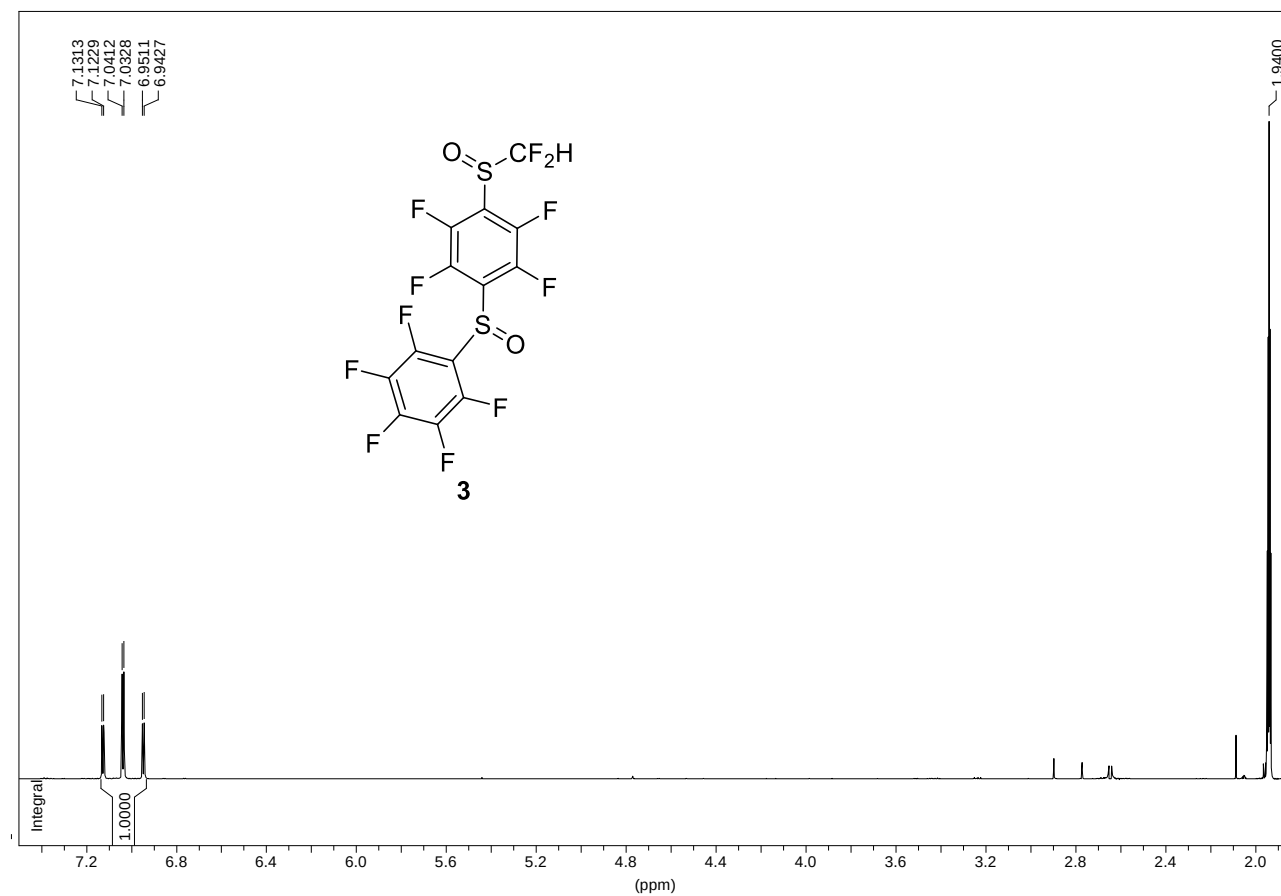


Figure S4. ^1H NMR (600.30 MHz, CD_3CN) spectrum of compound **3**

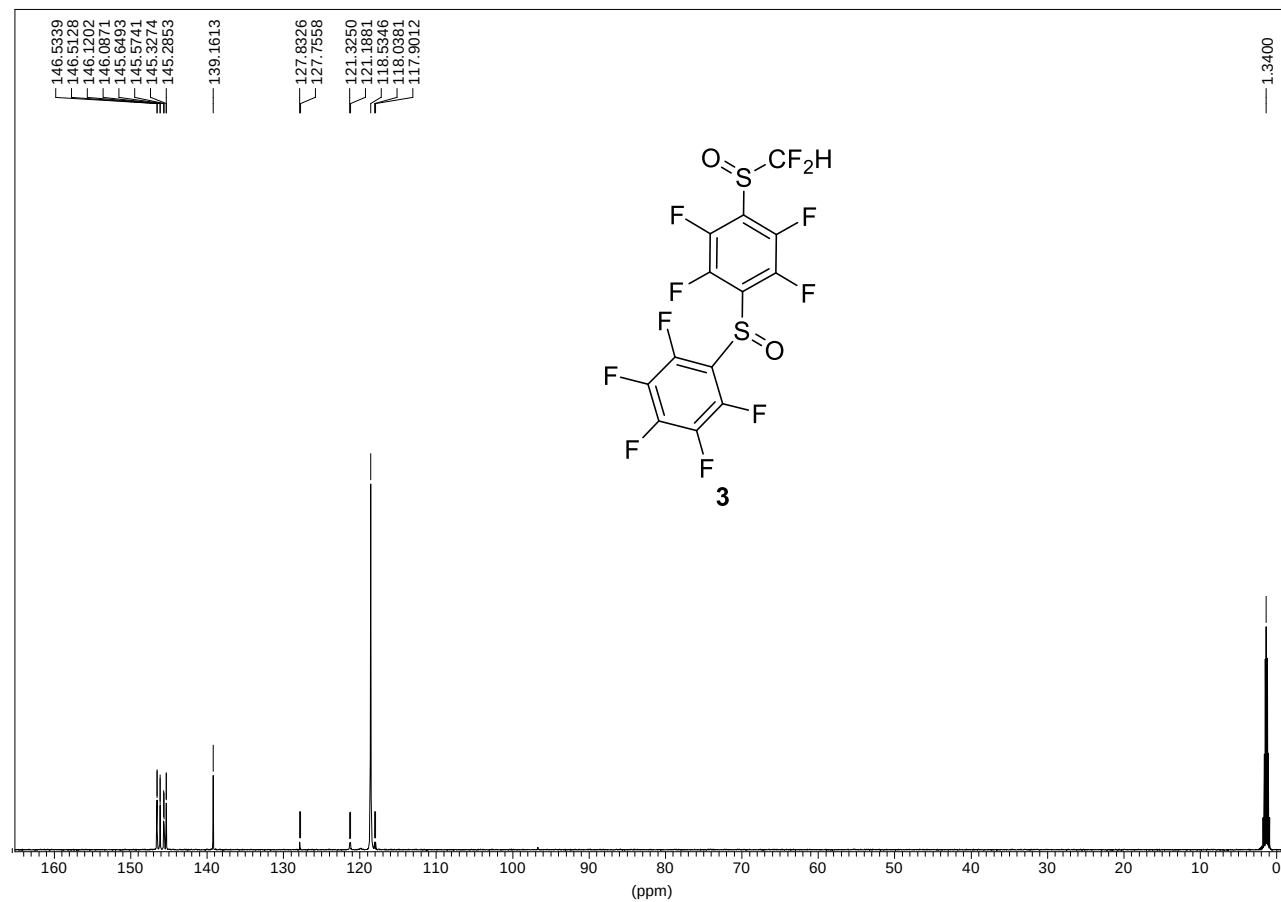


Figure S5. $^{13}\text{C}\{^{19}\text{F}\}$ NMR (150.95 MHz, CD_3CN) spectrum of compound **3**

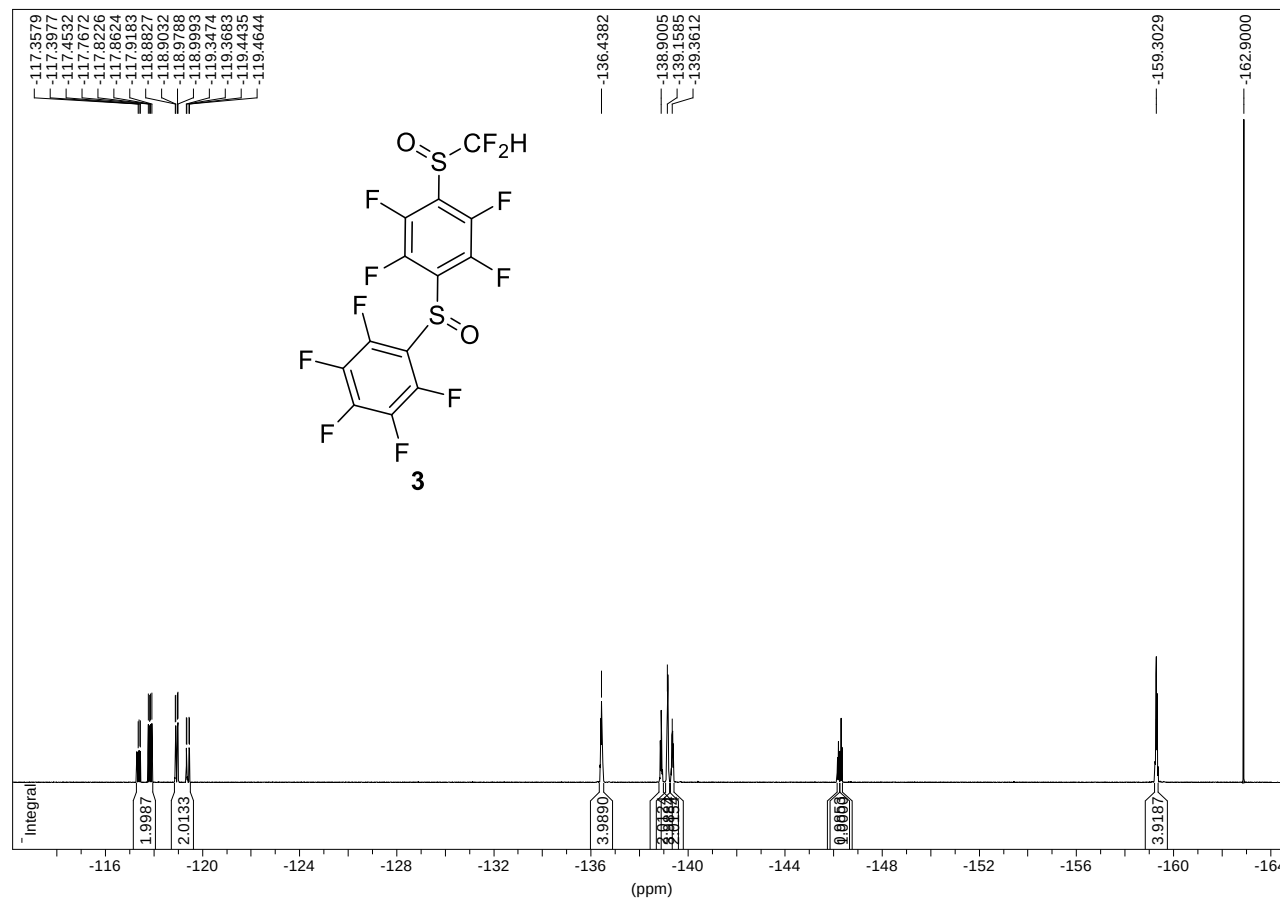


Figure S6. ¹⁹F NMR (564.84 MHz, CD₃CN) spectrum of compound **3**

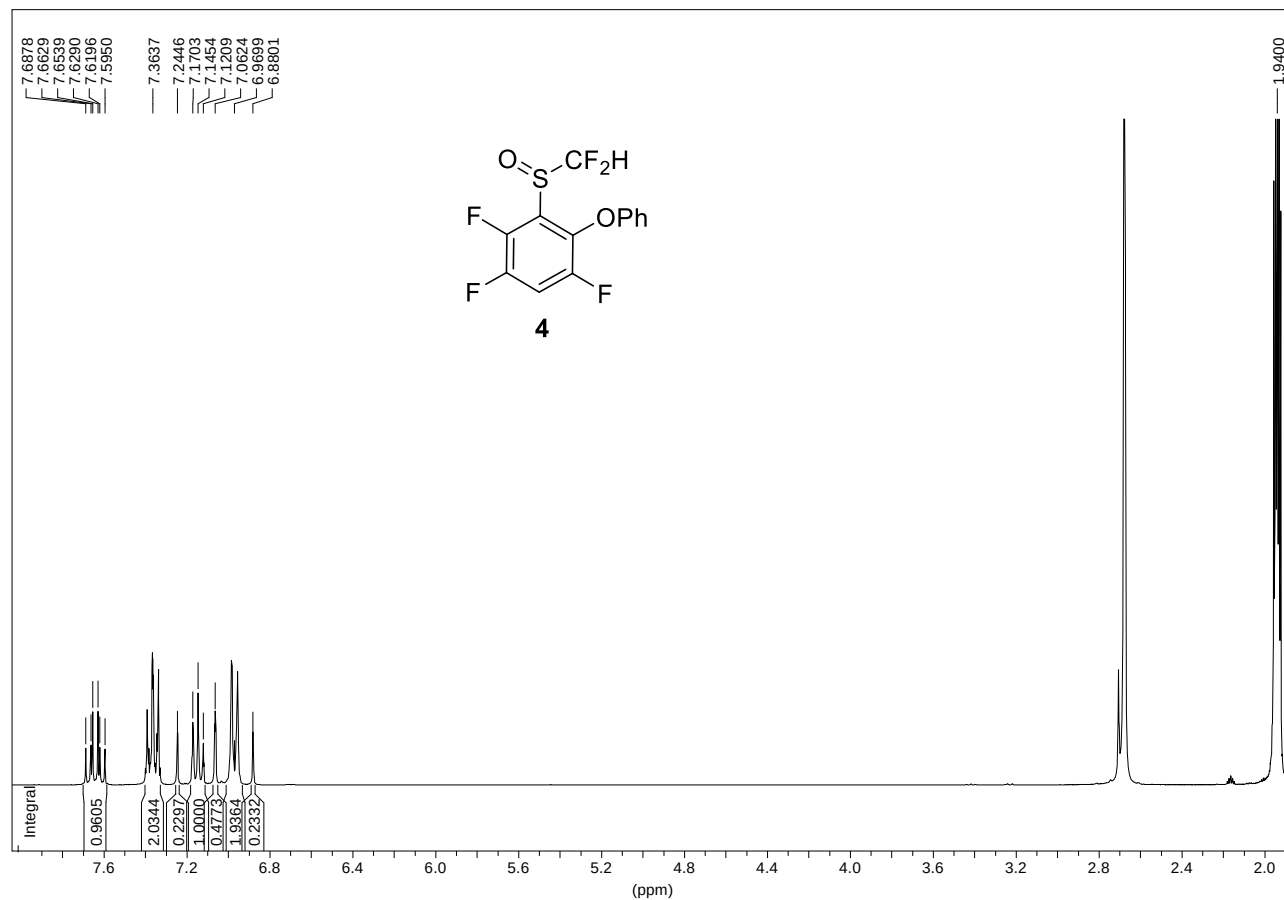


Figure S7. ¹H NMR (400.13 MHz, CD₃CN) spectrum of compound **4**

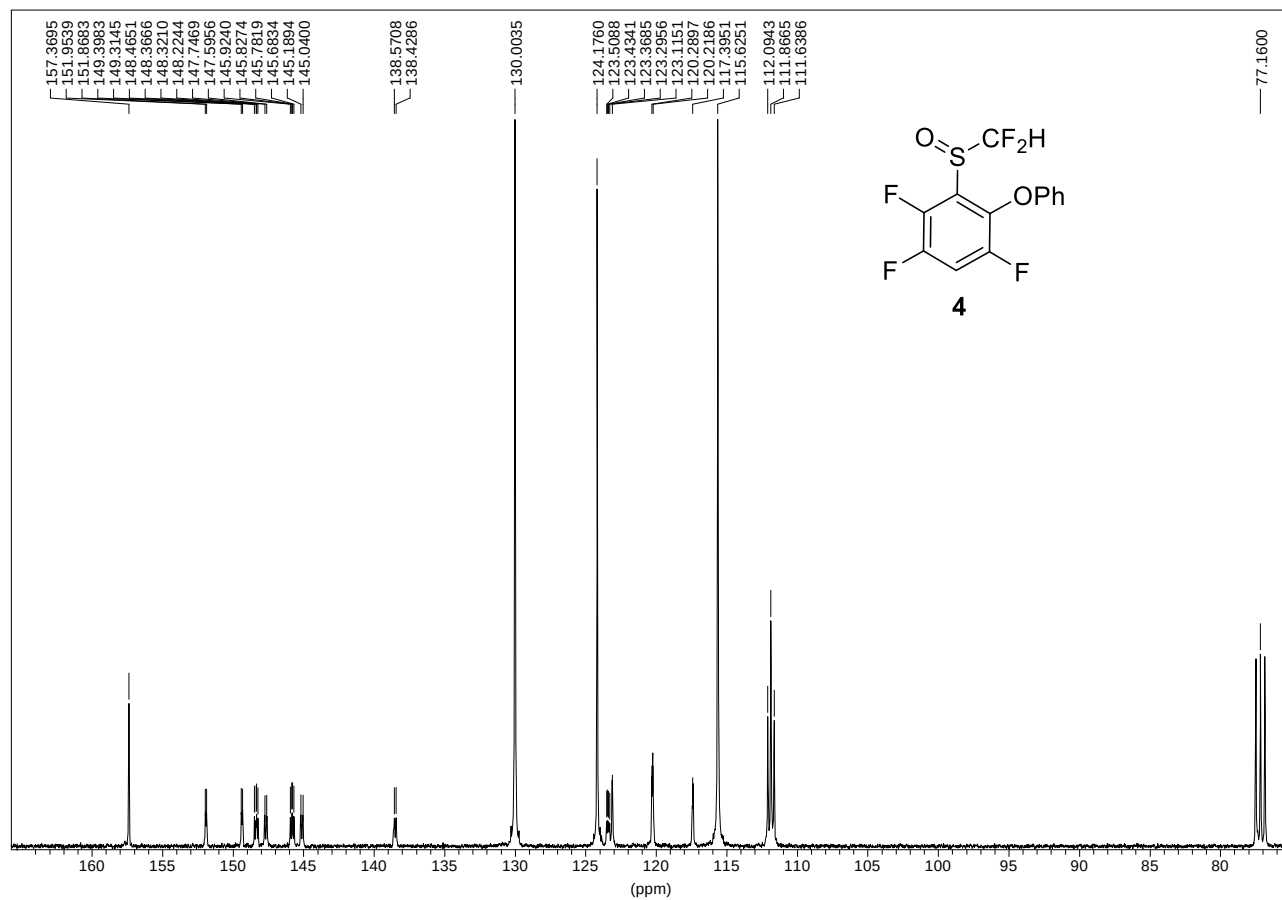


Figure S8. ^{13}C NMR (100.61 MHz, CDCl_3) spectrum of compound **4**

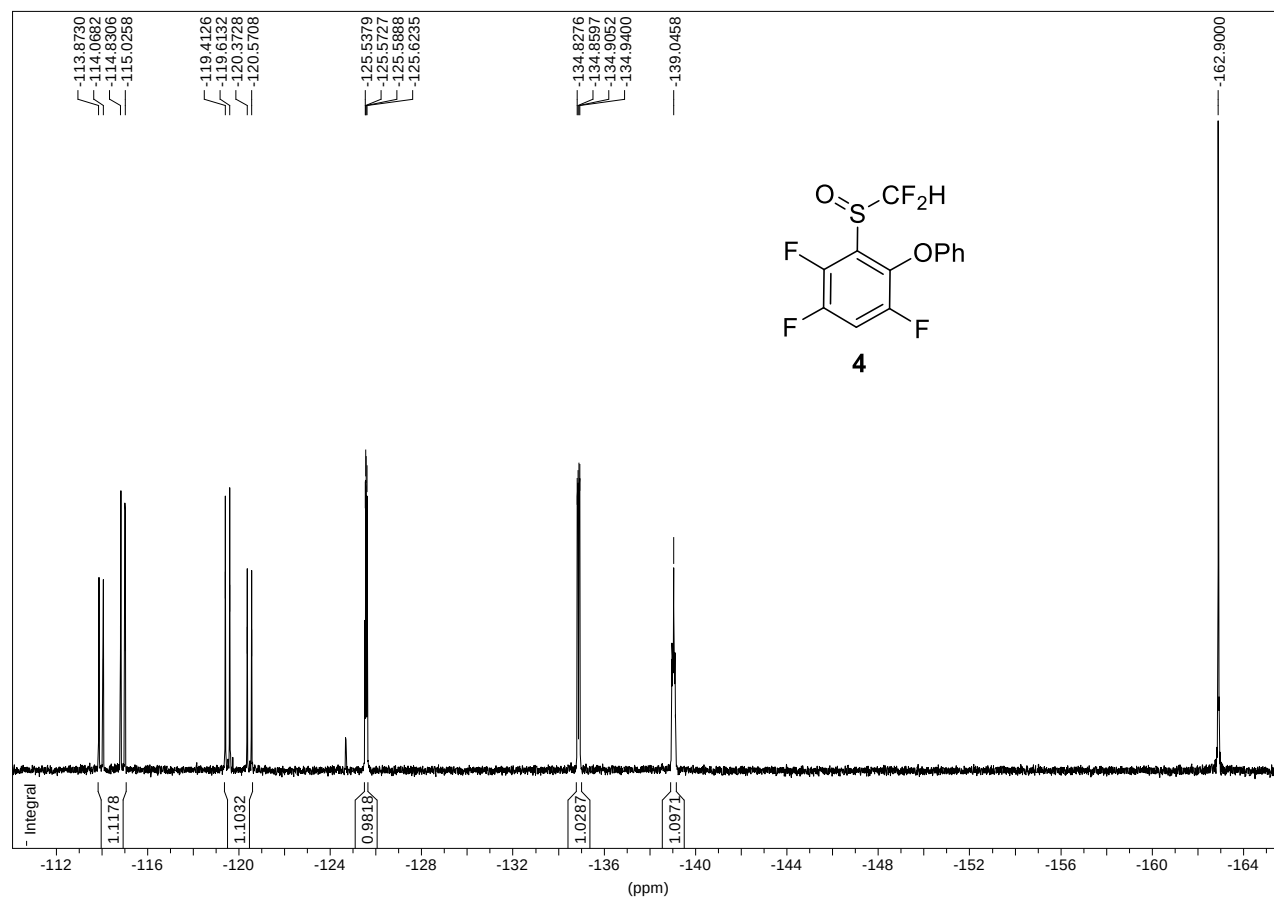


Figure S9. ¹⁹F NMR (282.40 MHz, CCl₄, CDCl₃) spectrum of compound **4**

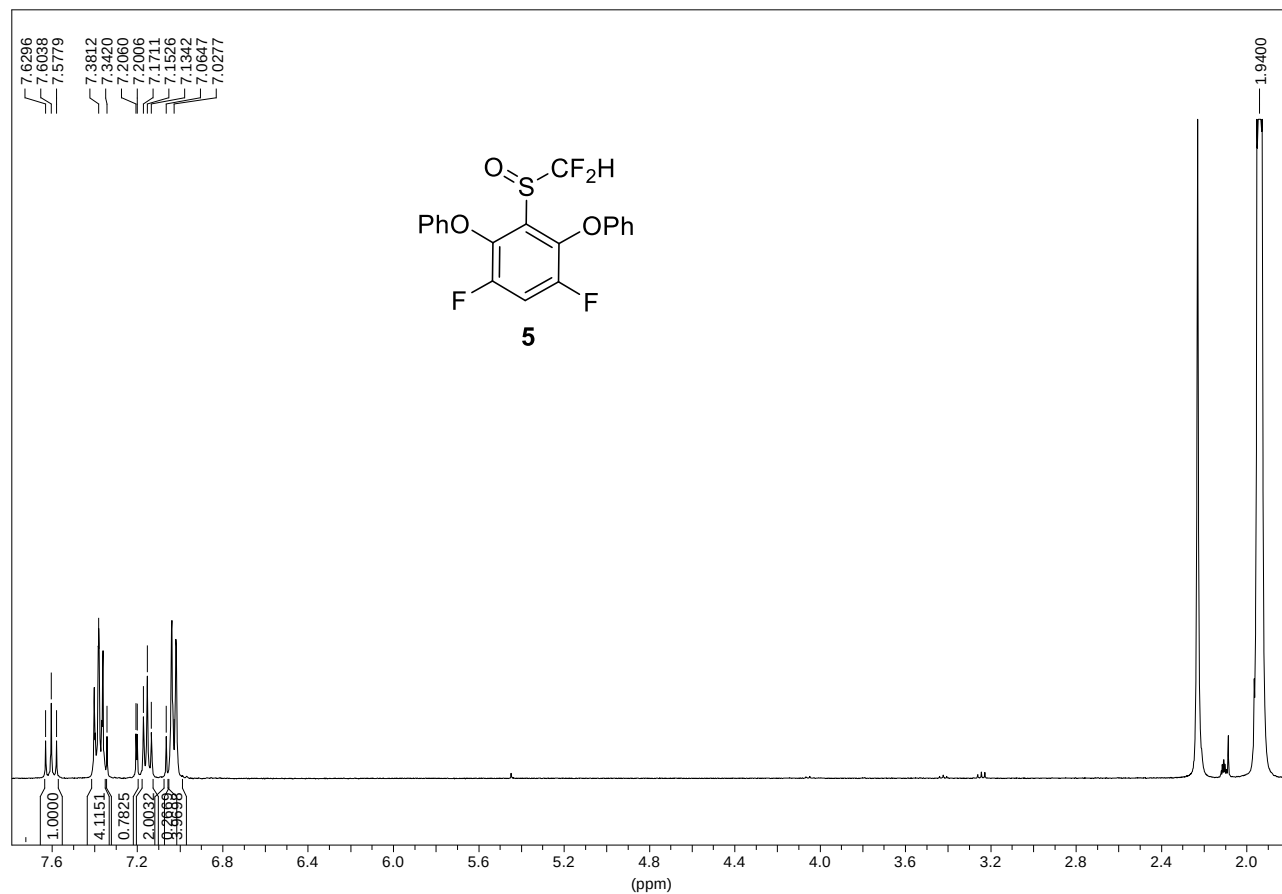


Figure S10. ¹H NMR (400.13 MHz, CD₃CN) spectrum of compound **5**

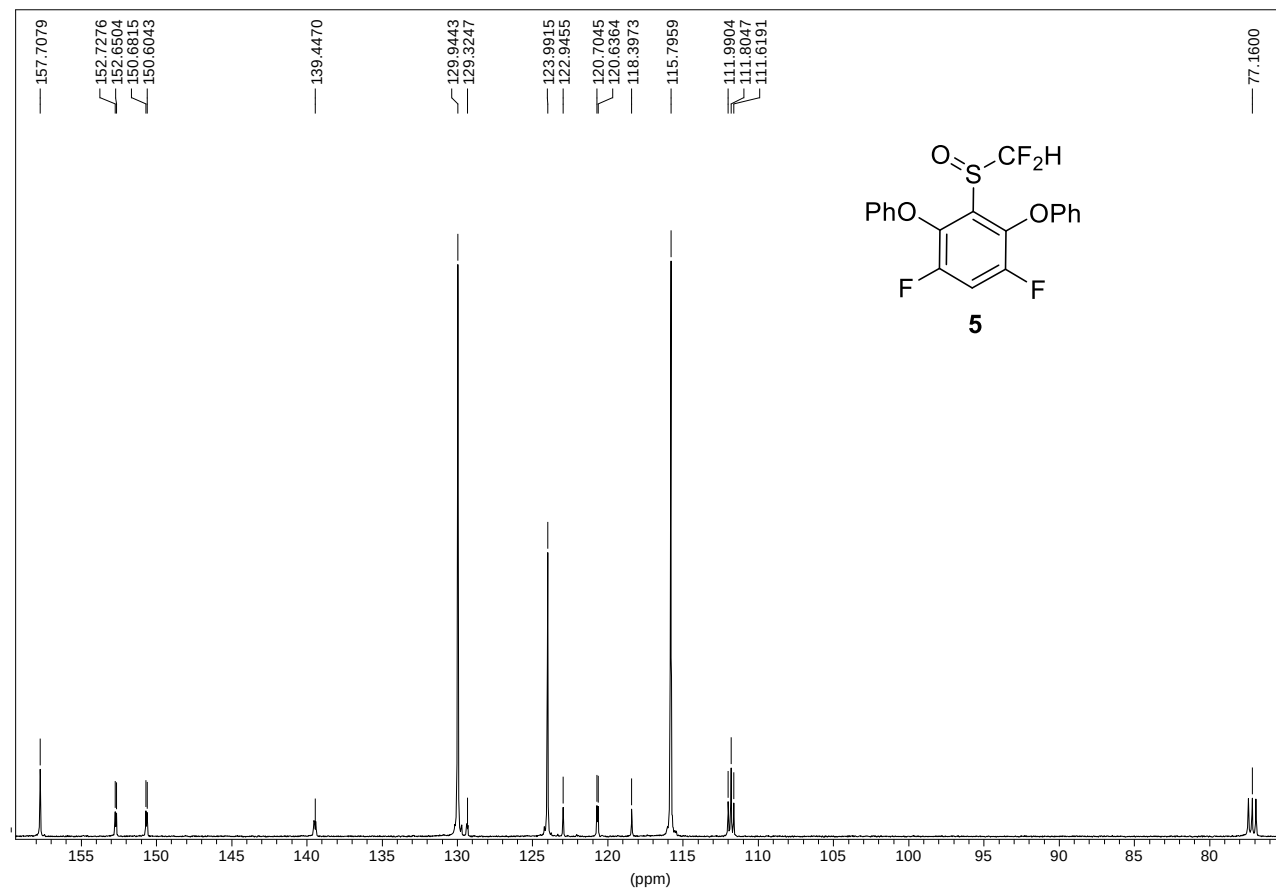


Figure S11. ^{13}C NMR (125.76 MHz, CDCl_3) spectrum of compound **5**

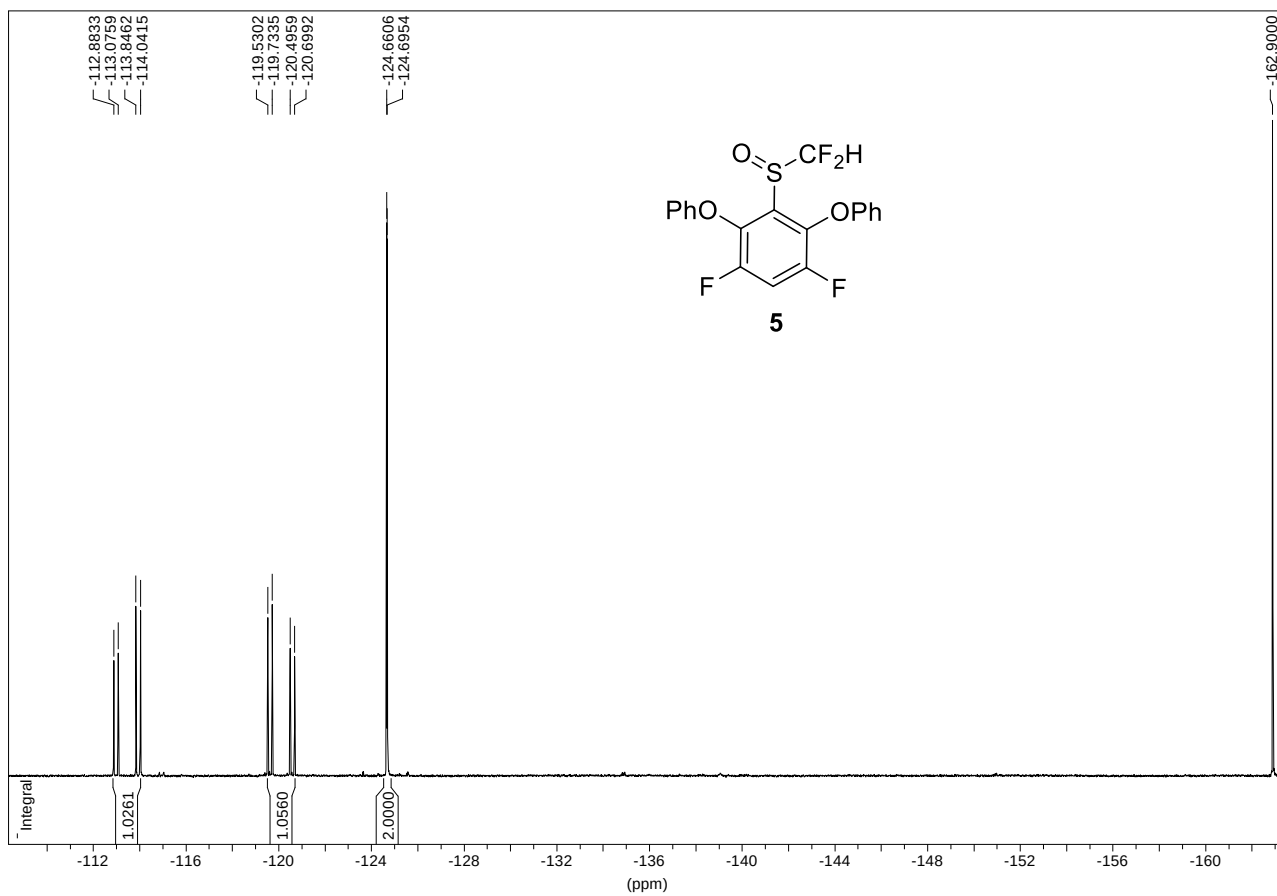


Figure S12. ¹⁹F NMR (282.40 MHz, CCl₄, CDCl₃) spectrum of compound **5**

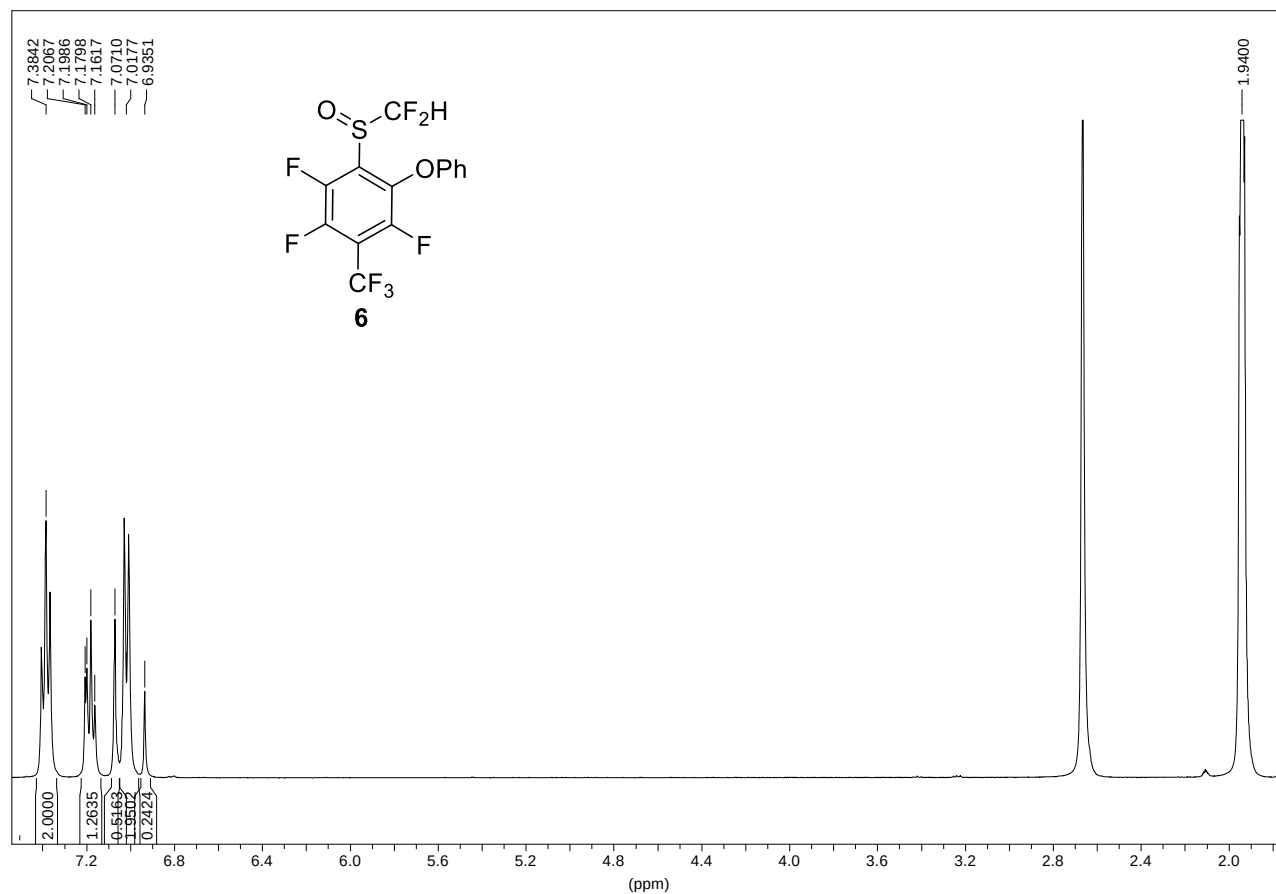


Figure S13. ¹H NMR (400.13 MHz, CD₃CN) spectrum of compound **6**

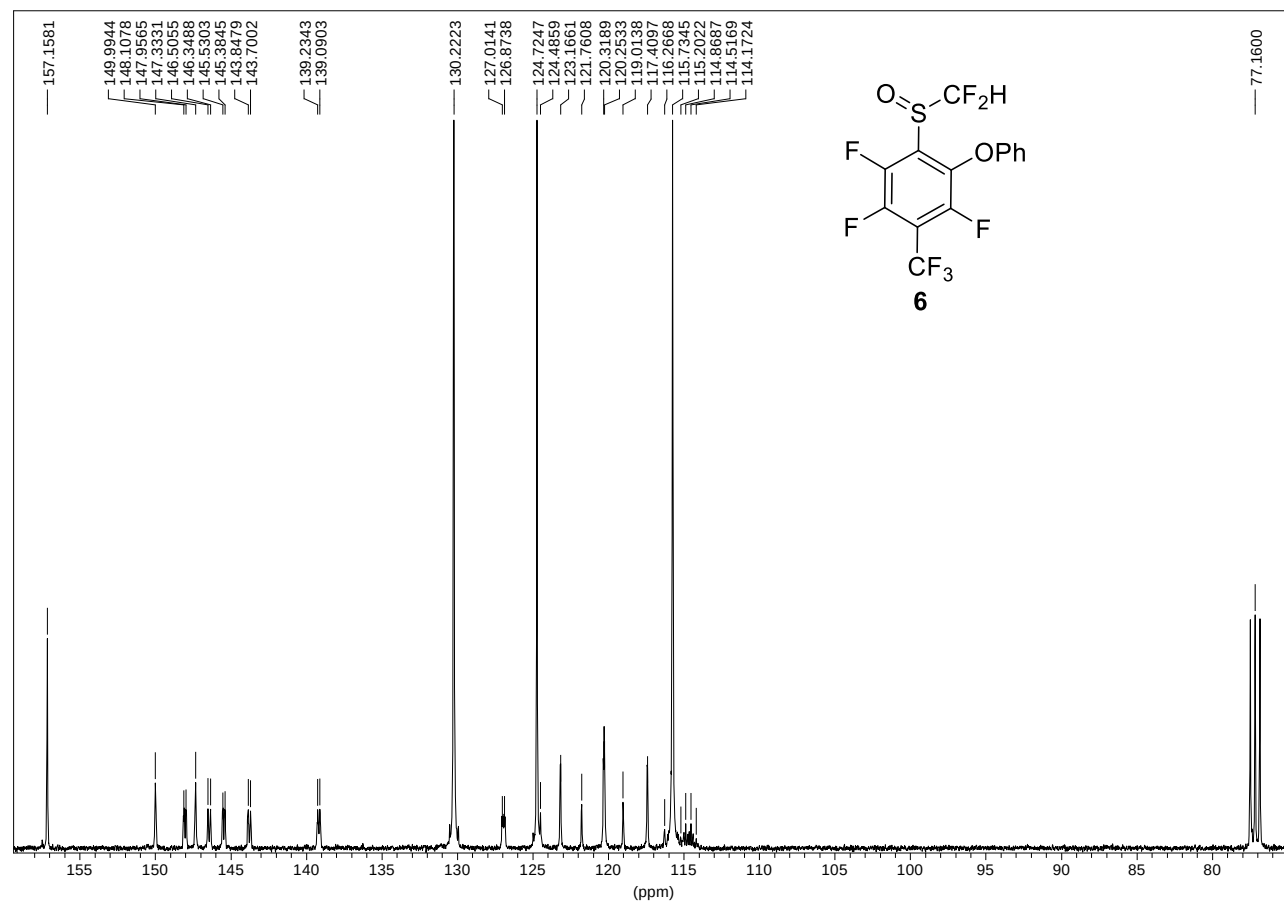


Figure S14. ¹³C NMR (100.61 MHz, CDCl₃) spectrum of compound **6**

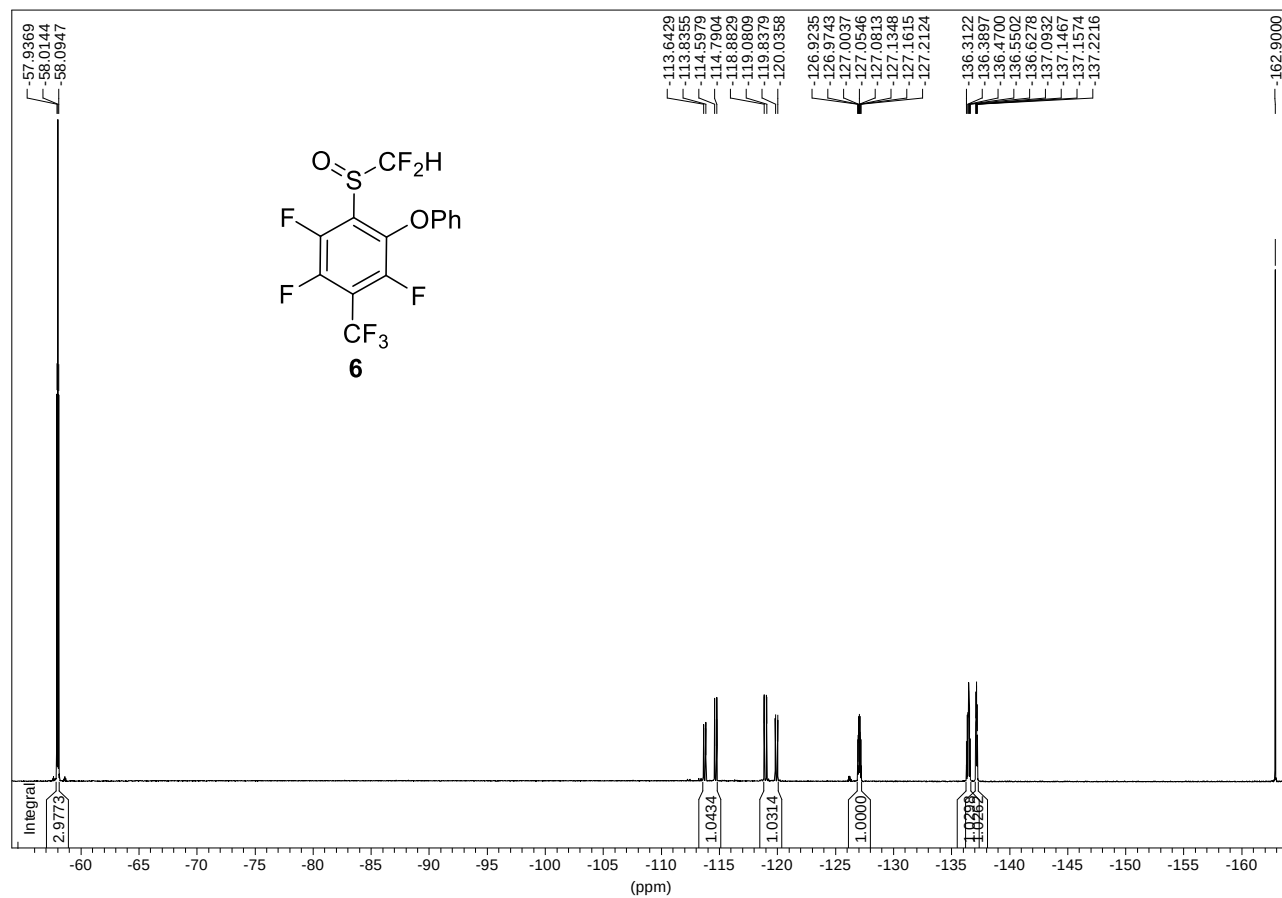


Figure S15. ¹⁹F NMR (282.40 MHz, CCl₄, CDCl₃) spectrum of compound **6**

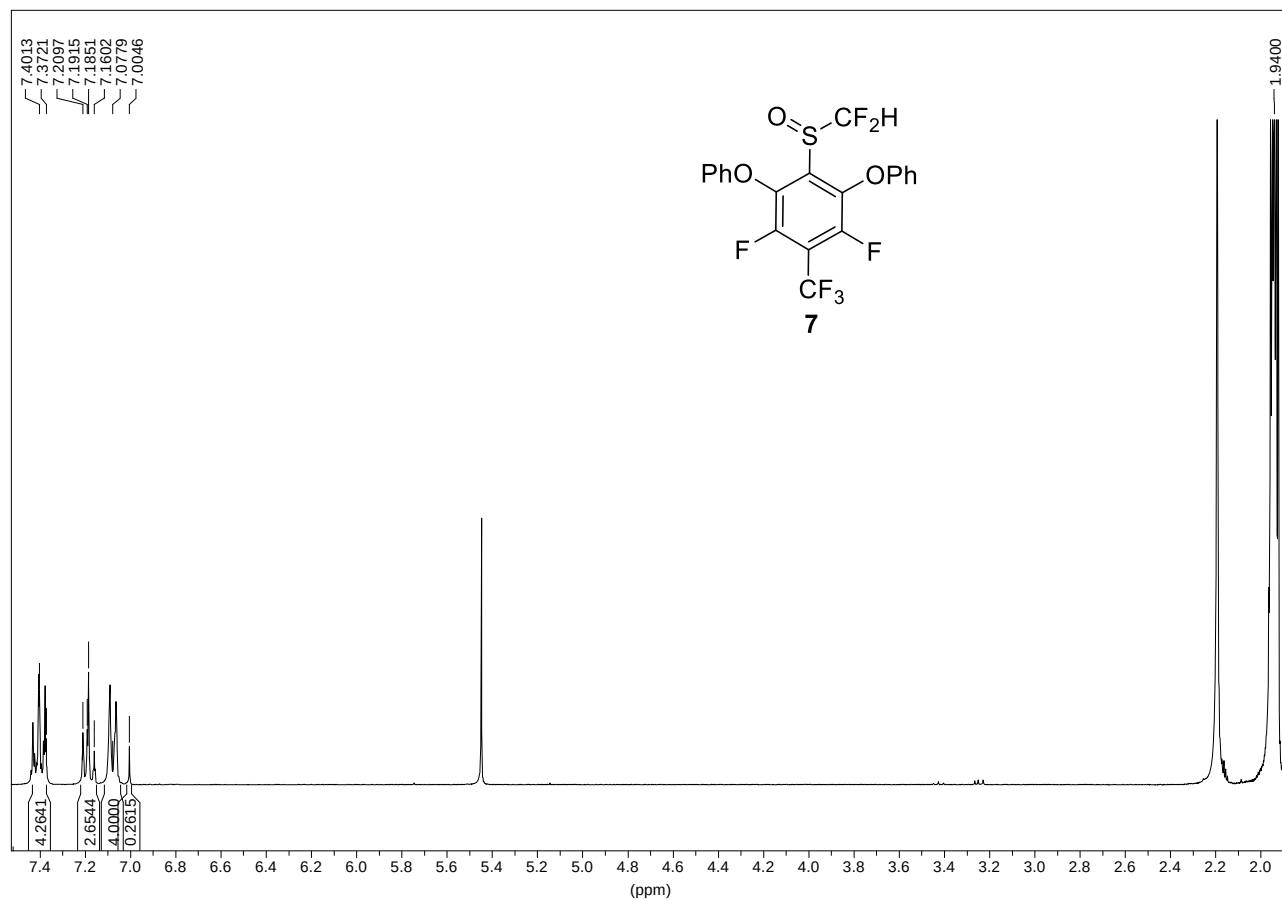


Figure S16. ¹H NMR (300.13 MHz, CD₃CN) spectrum of compound **7**

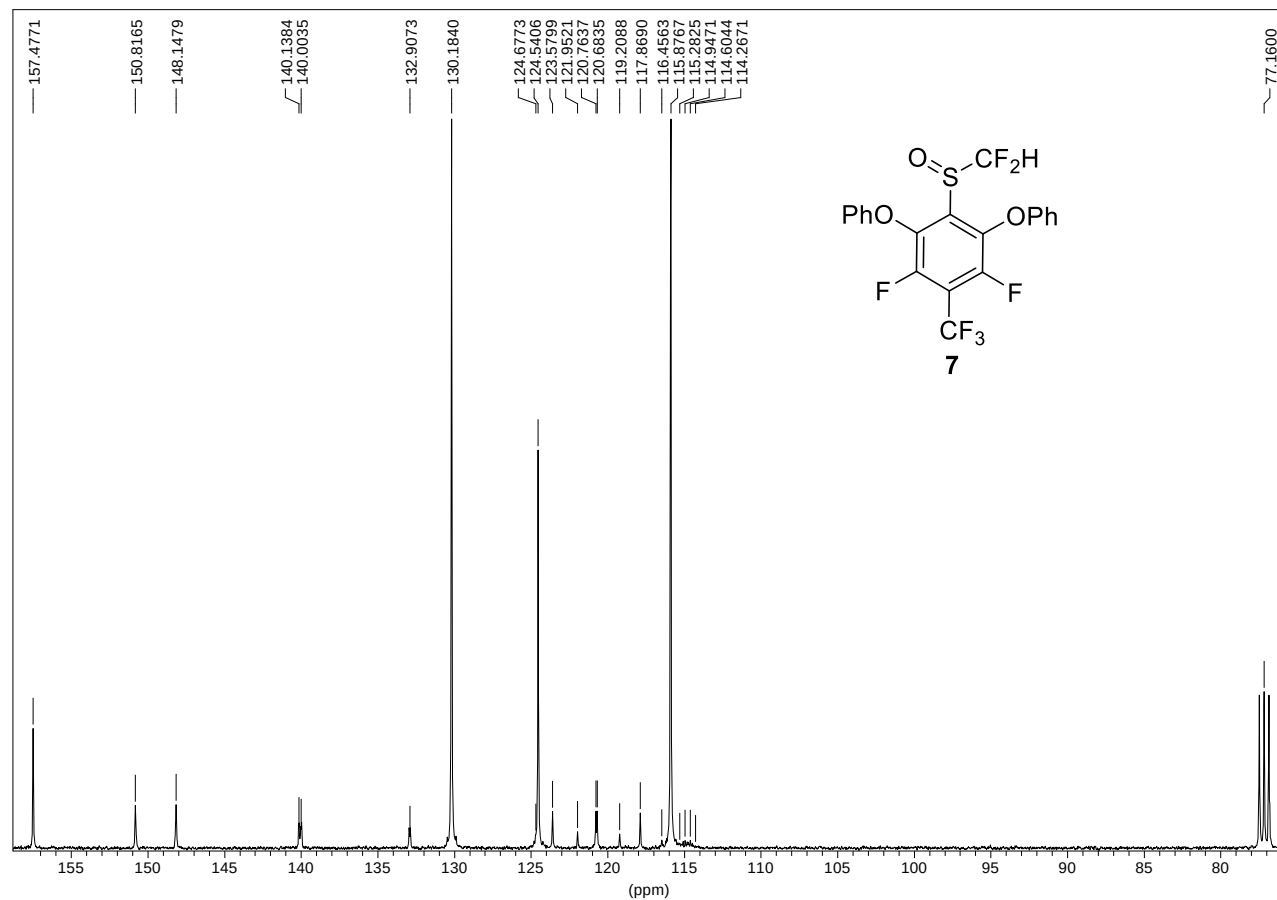


Figure S17. ^{13}C NMR (100.61 MHz, CDCl_3) spectrum of compound **7**

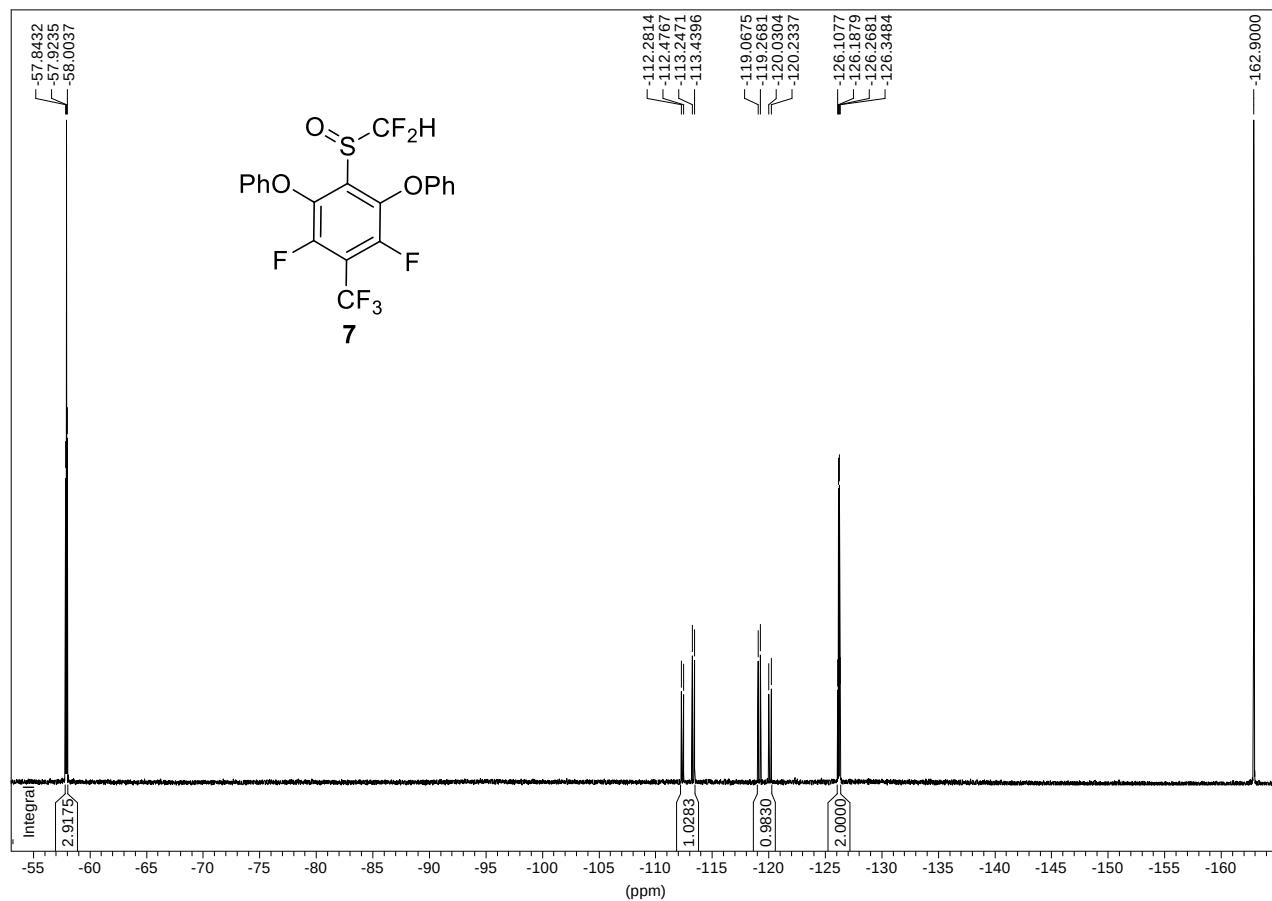


Figure S18. ¹⁹F NMR (282.40 MHz, CCl₄, CDCl₃) spectrum of compound **7**

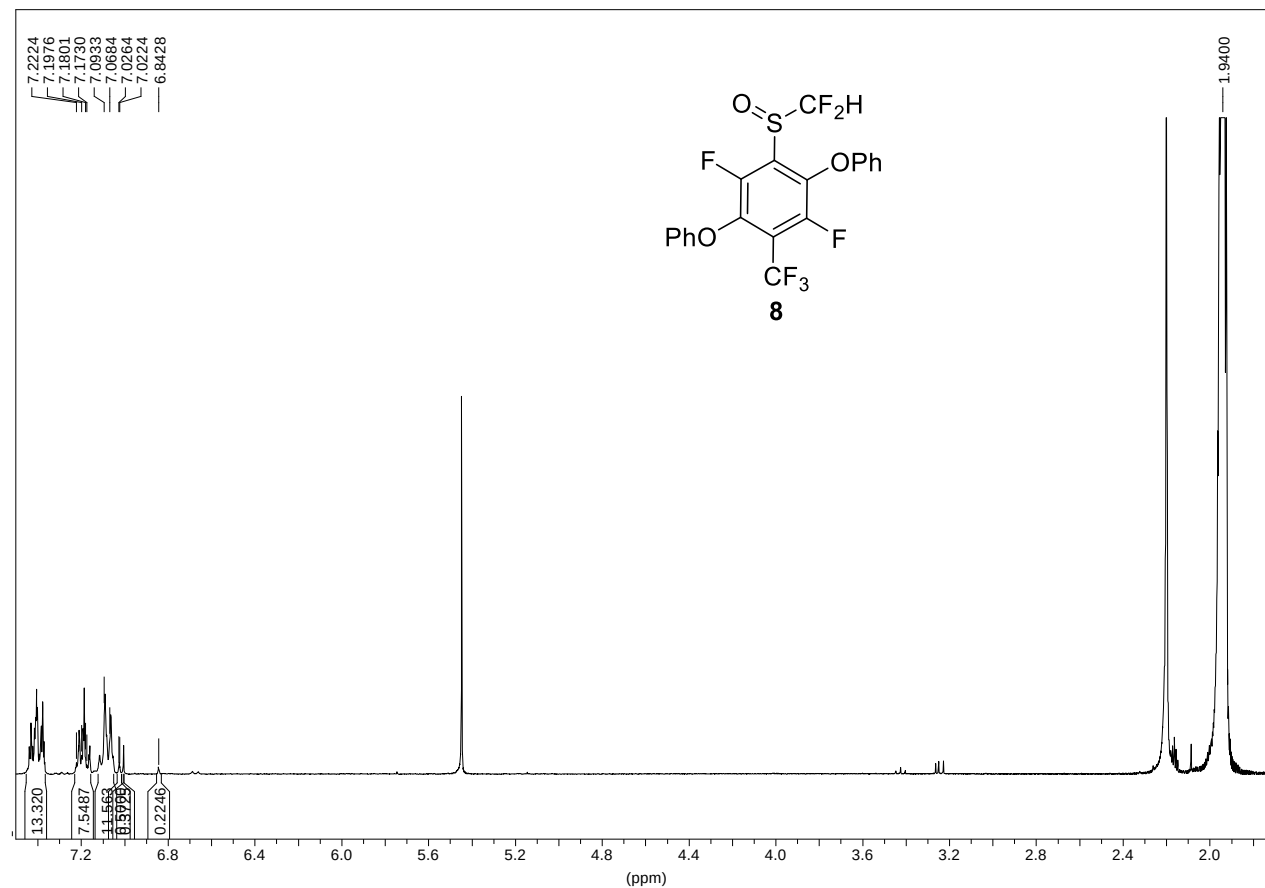


Figure S19. ¹H NMR (300.13 MHz, CD₃CN) spectrum of compound **8** (in mixture with **7**)

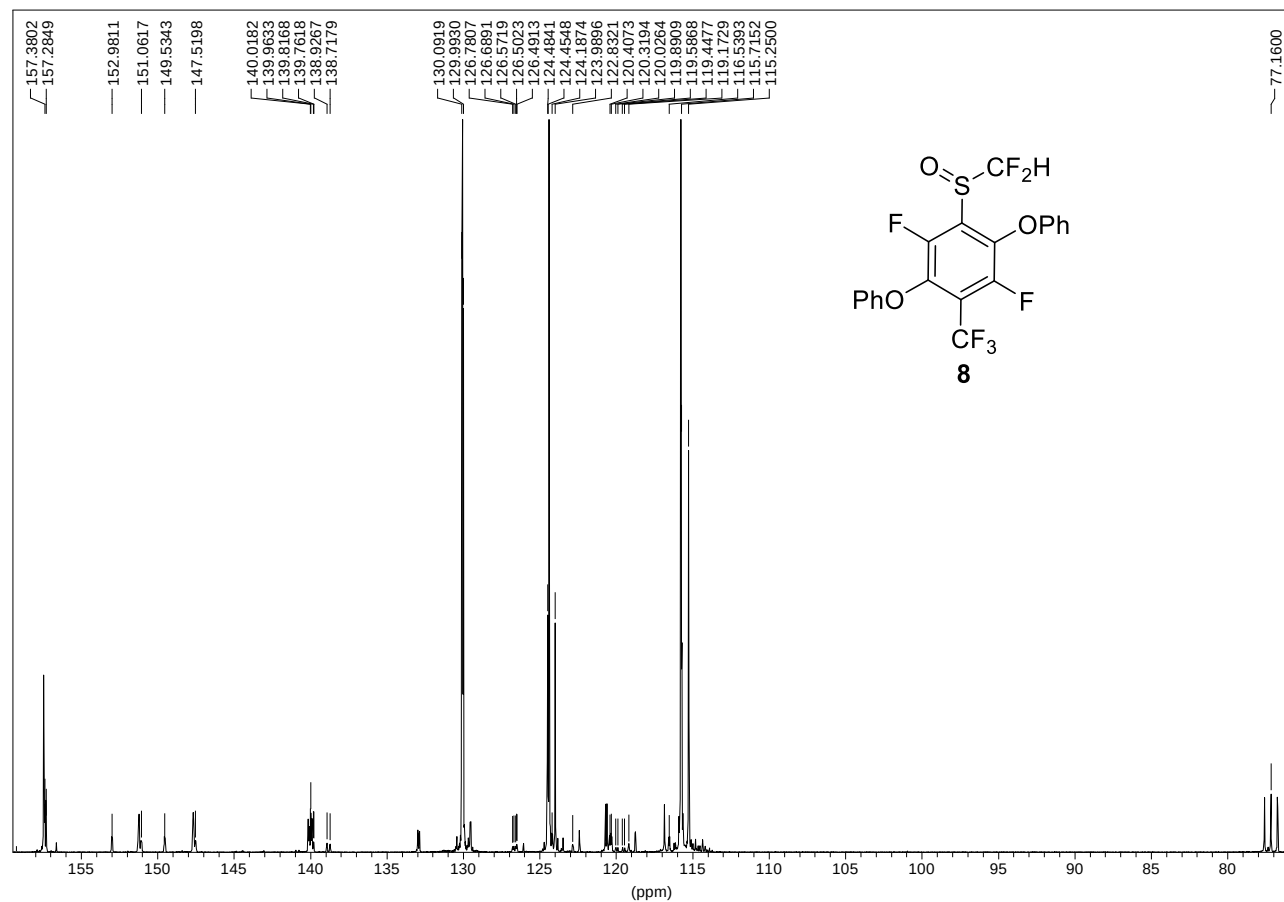


Figure S20. ^{13}C NMR (75.47 MHz, CDCl_3) spectrum of compound **8** (in mixture with **7**)

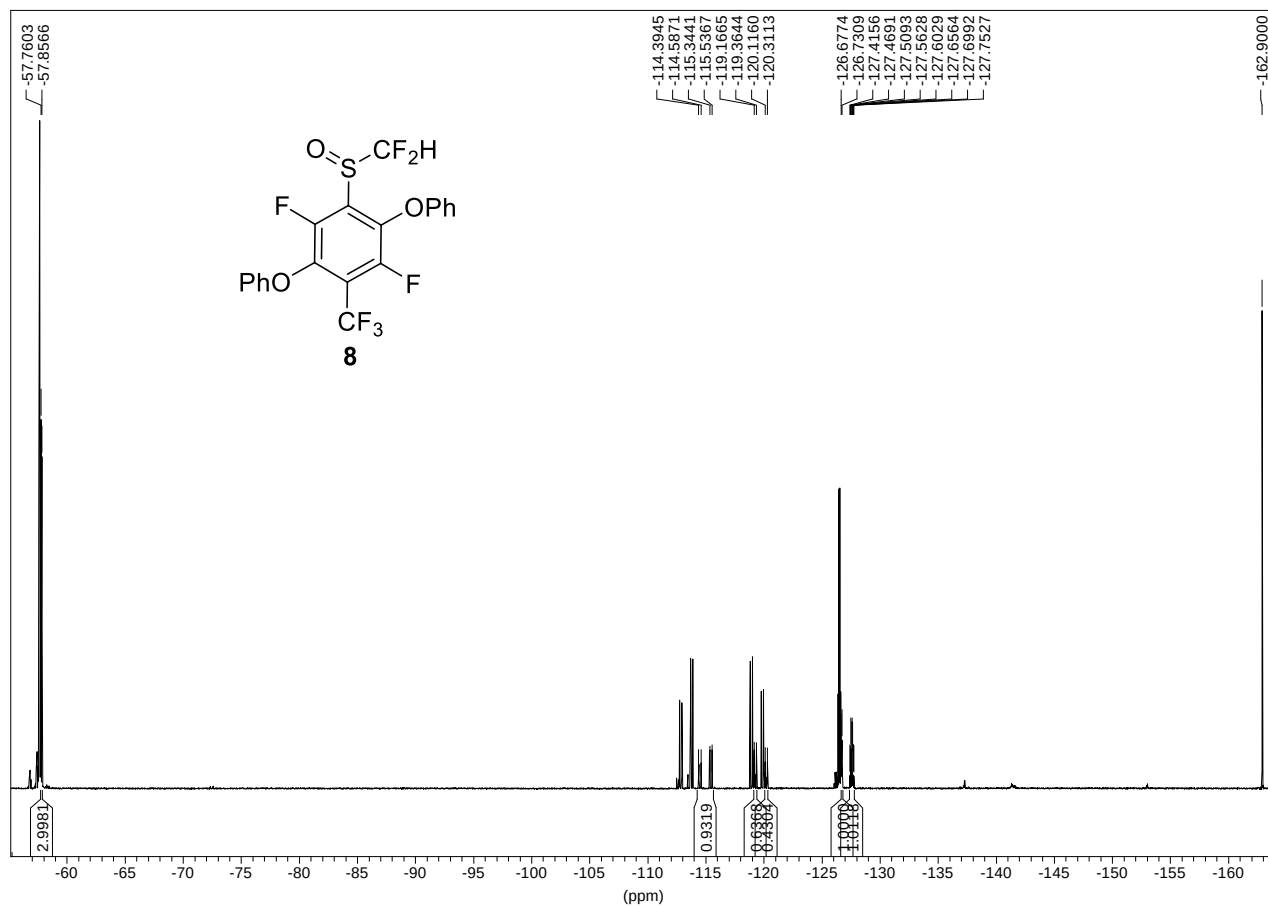


Figure S21. ^{19}F NMR (282.40 MHz, CCl_4 , CDCl_3) spectrum of compound **8** (in mixture with **7**)

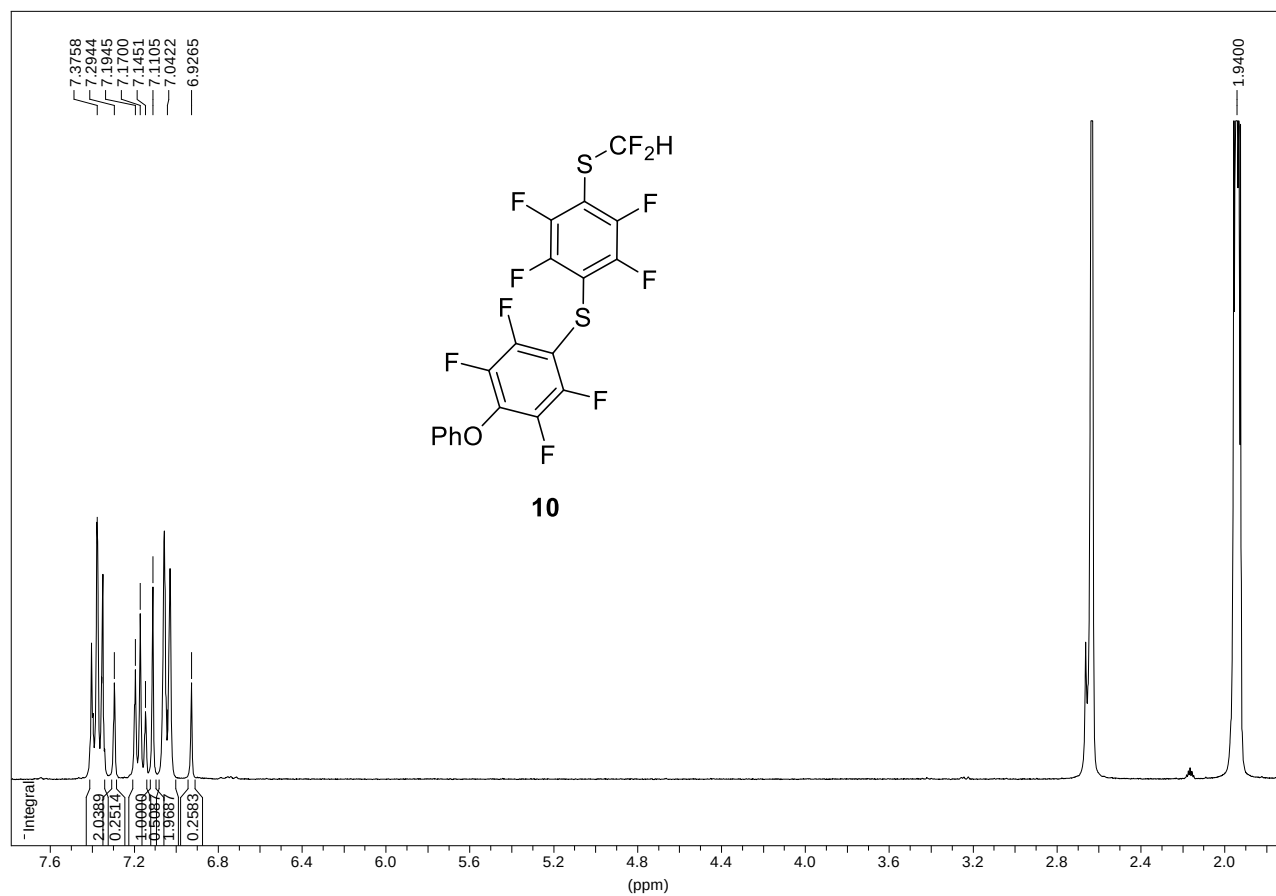


Figure S22. ¹H NMR (300.13 MHz, CD₃CN) spectrum of compound **10**

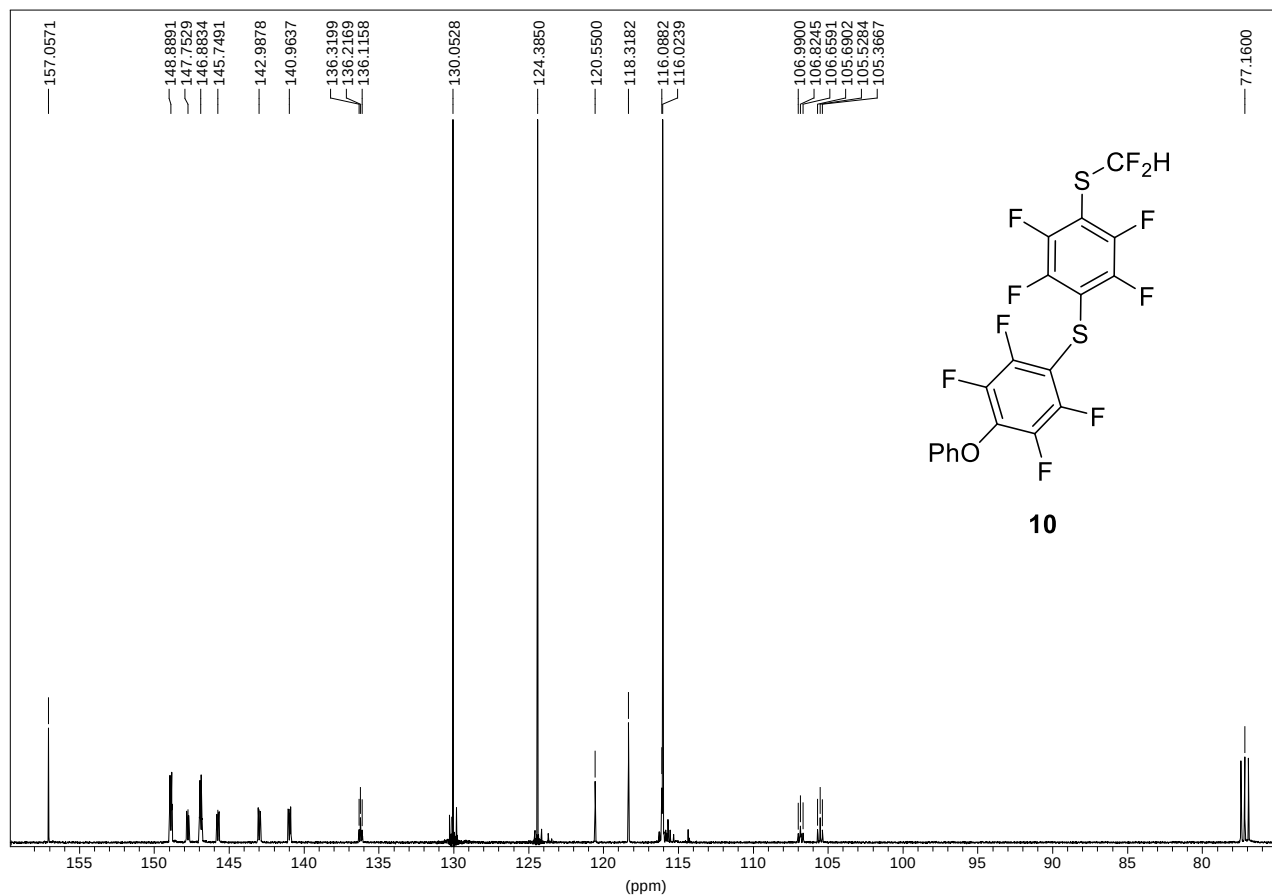


Figure S23. ¹³C NMR (125.76 MHz, CDCl₃) spectrum of compound **10**

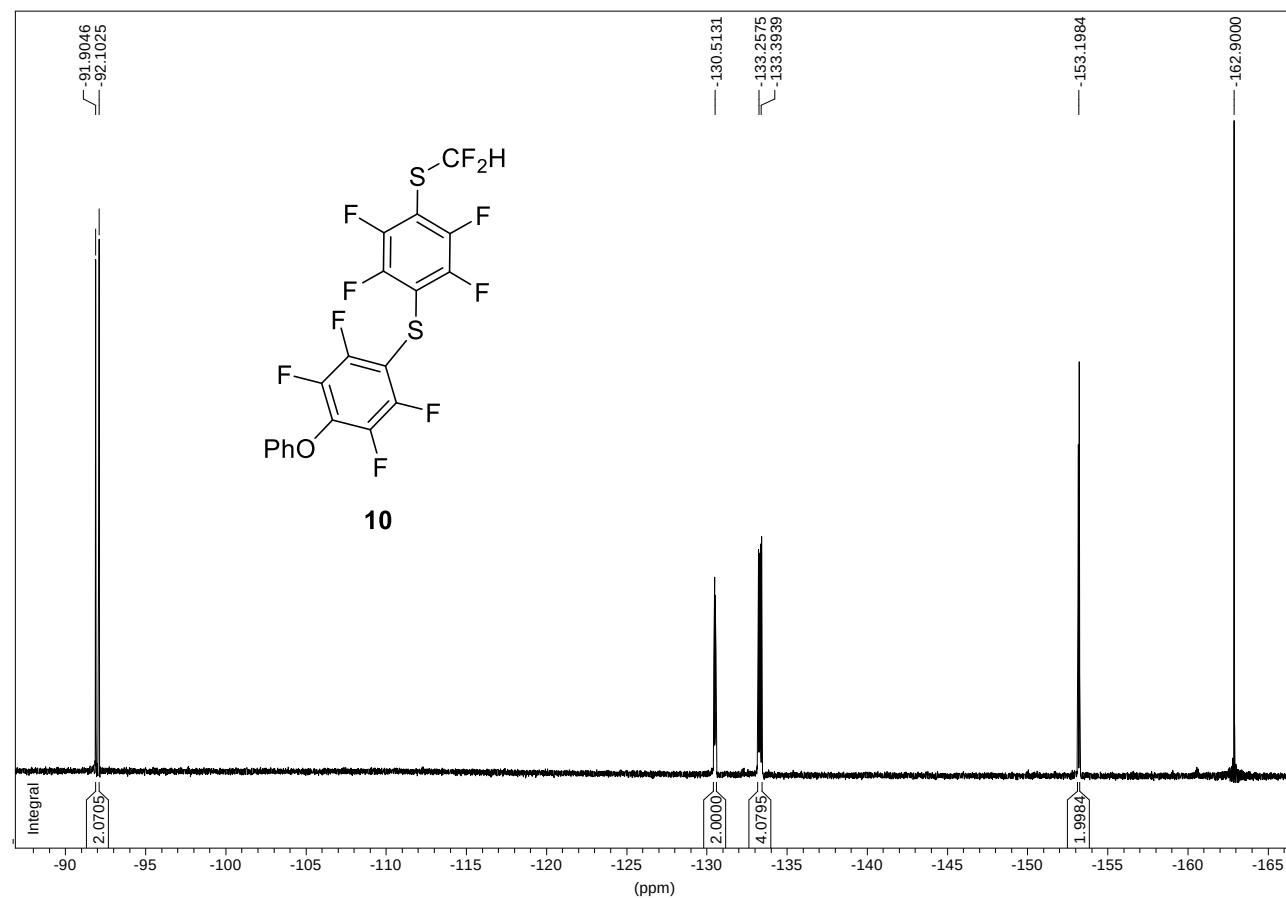


Figure S24. ^{19}F NMR (282.40 MHz, CCl_4 , CDCl_3) spectrum of compound **10**

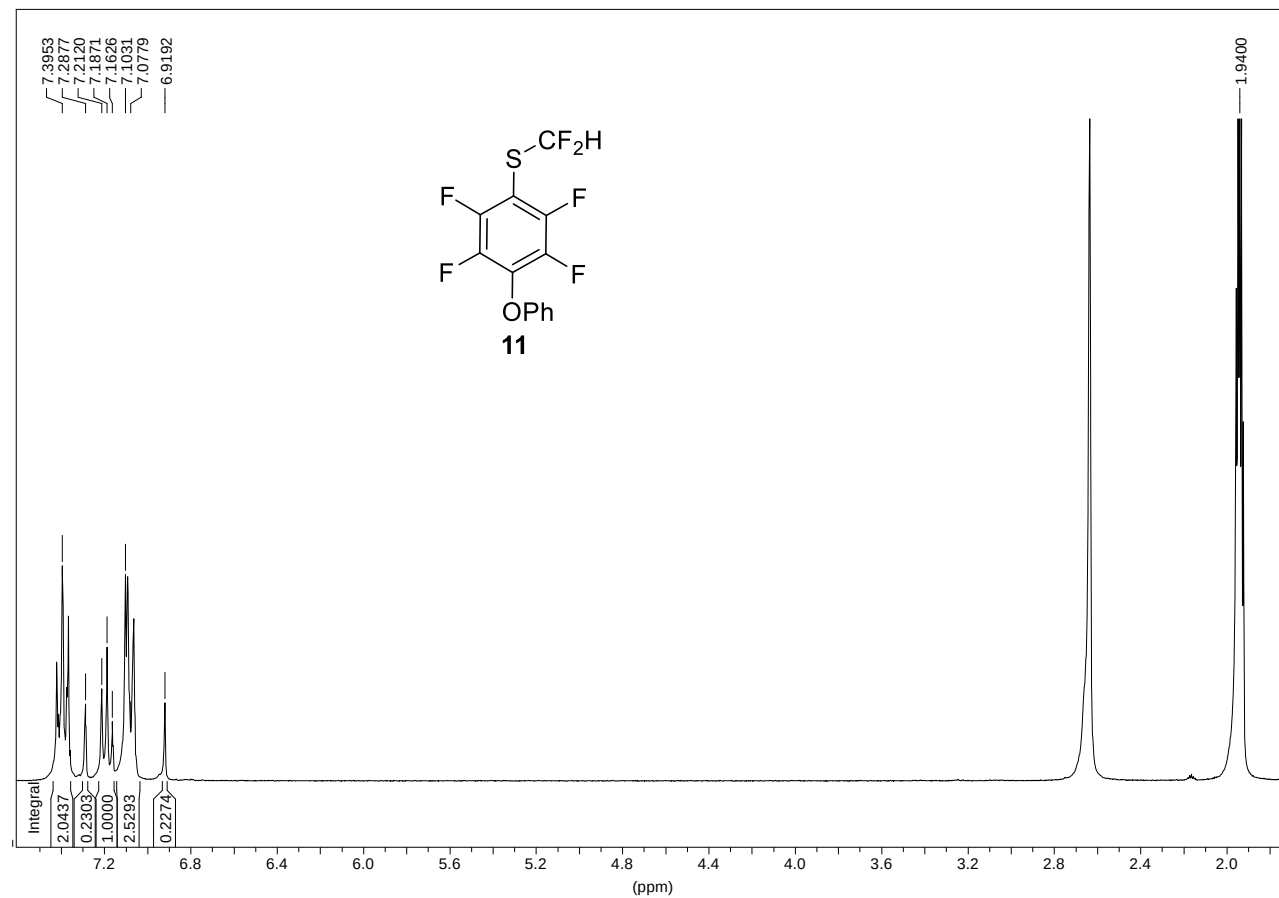


Figure S25. ¹H NMR (300.13 MHz, CD₃CN) spectrum of compound **11**

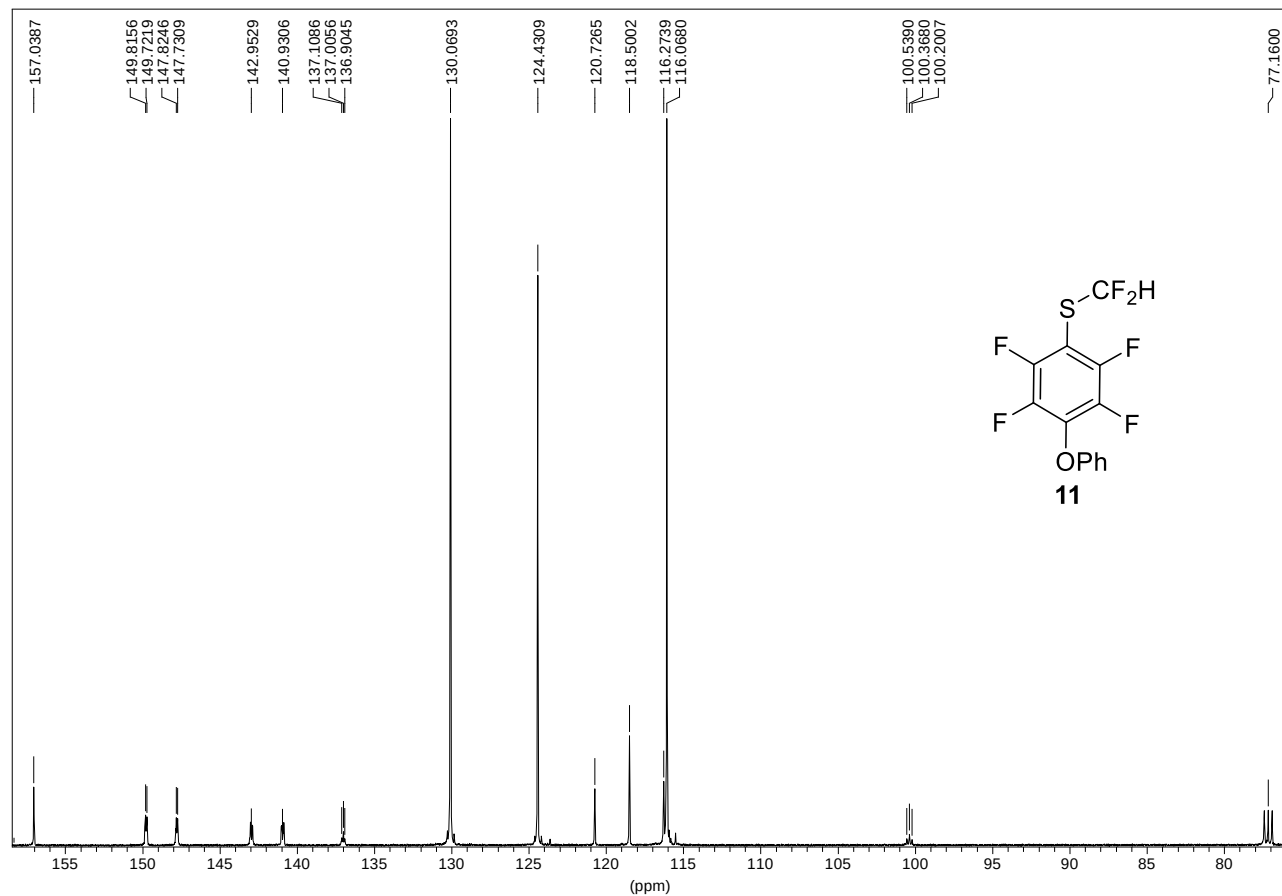


Figure S26. ¹³C NMR (125.76 MHz, CDCl₃) spectrum of compound **11**

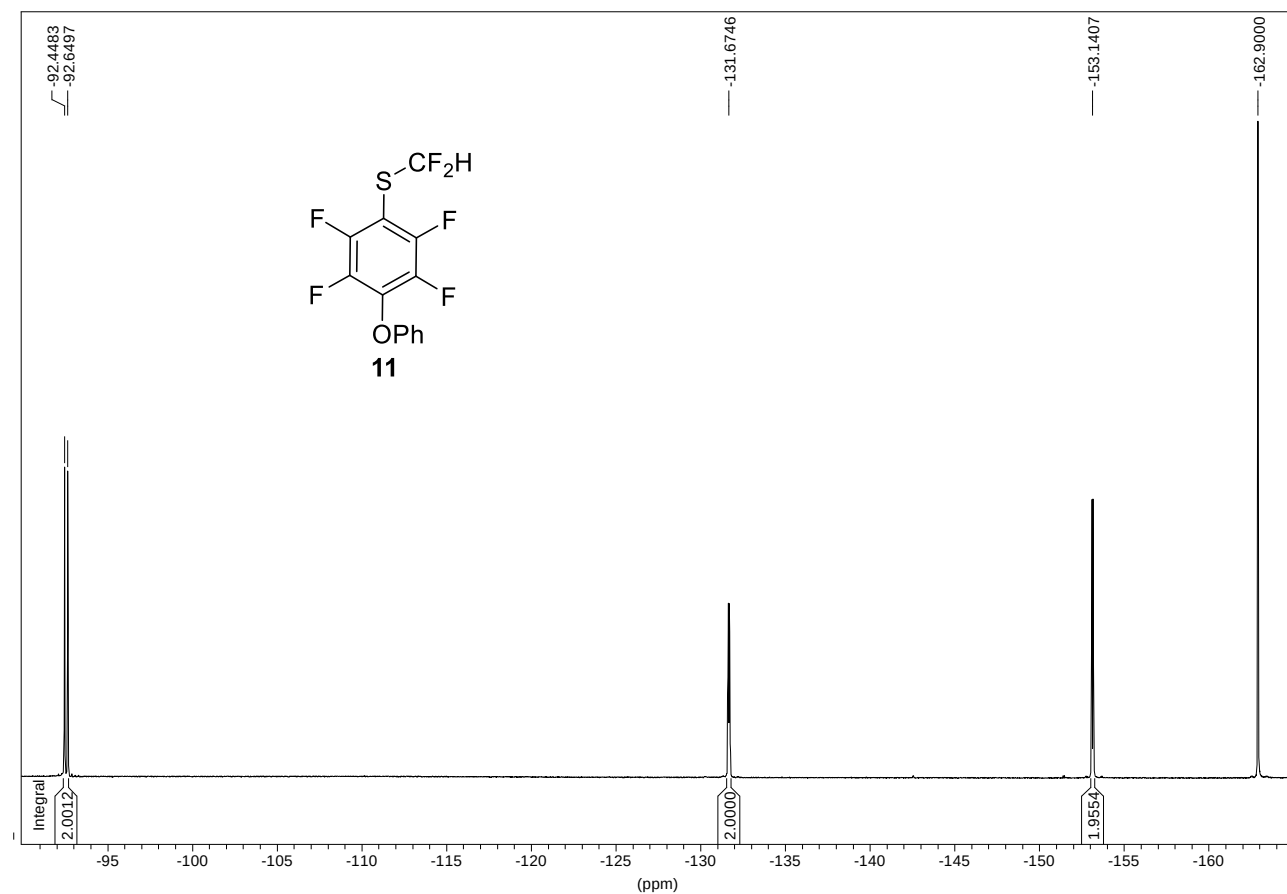


Figure S27. ¹⁹F NMR (282.40 MHz, CCl₄, CDCl₃) spectrum of compound **11**

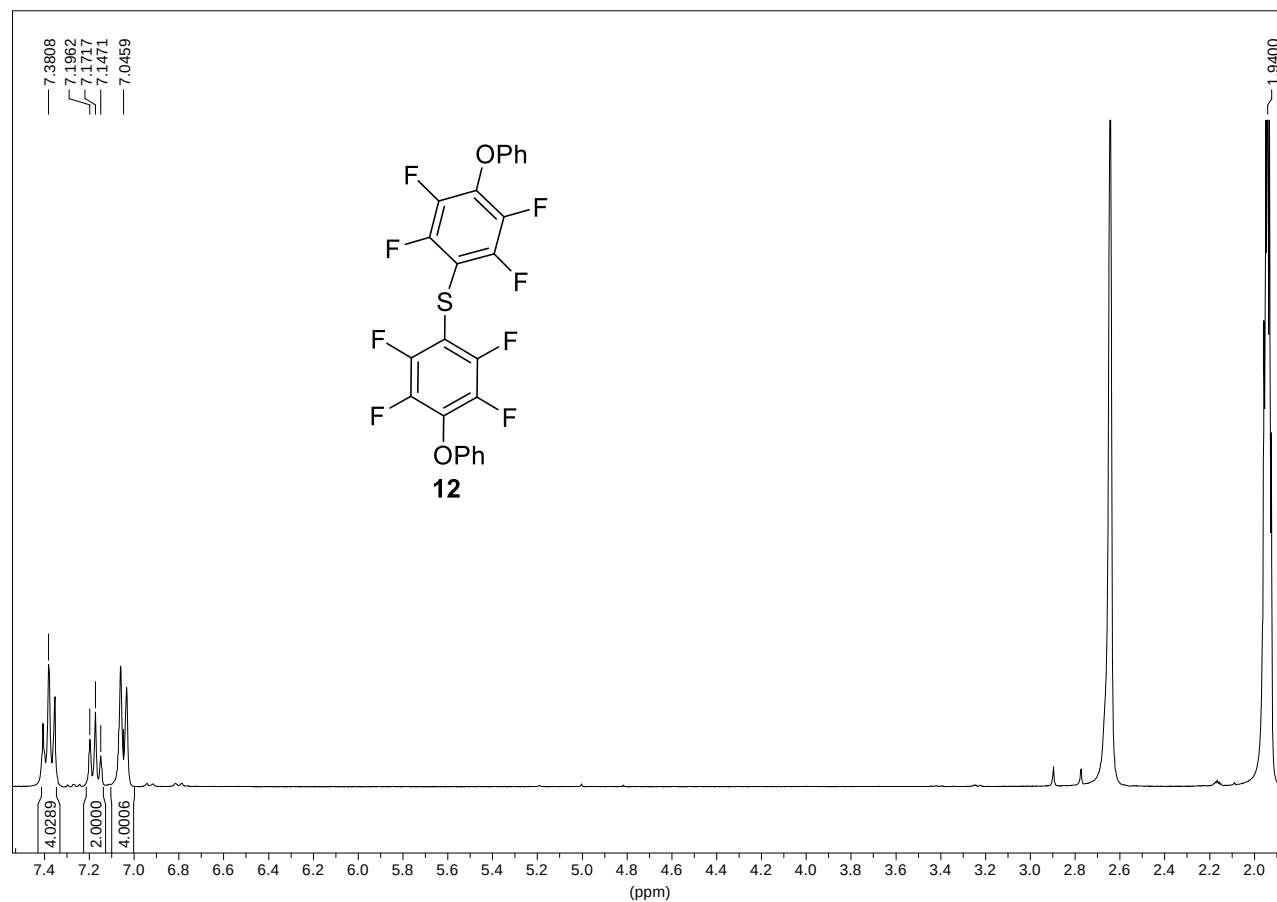


Figure S28. ¹H NMR (300.13 MHz, CD₃CN) spectrum of compound **12**

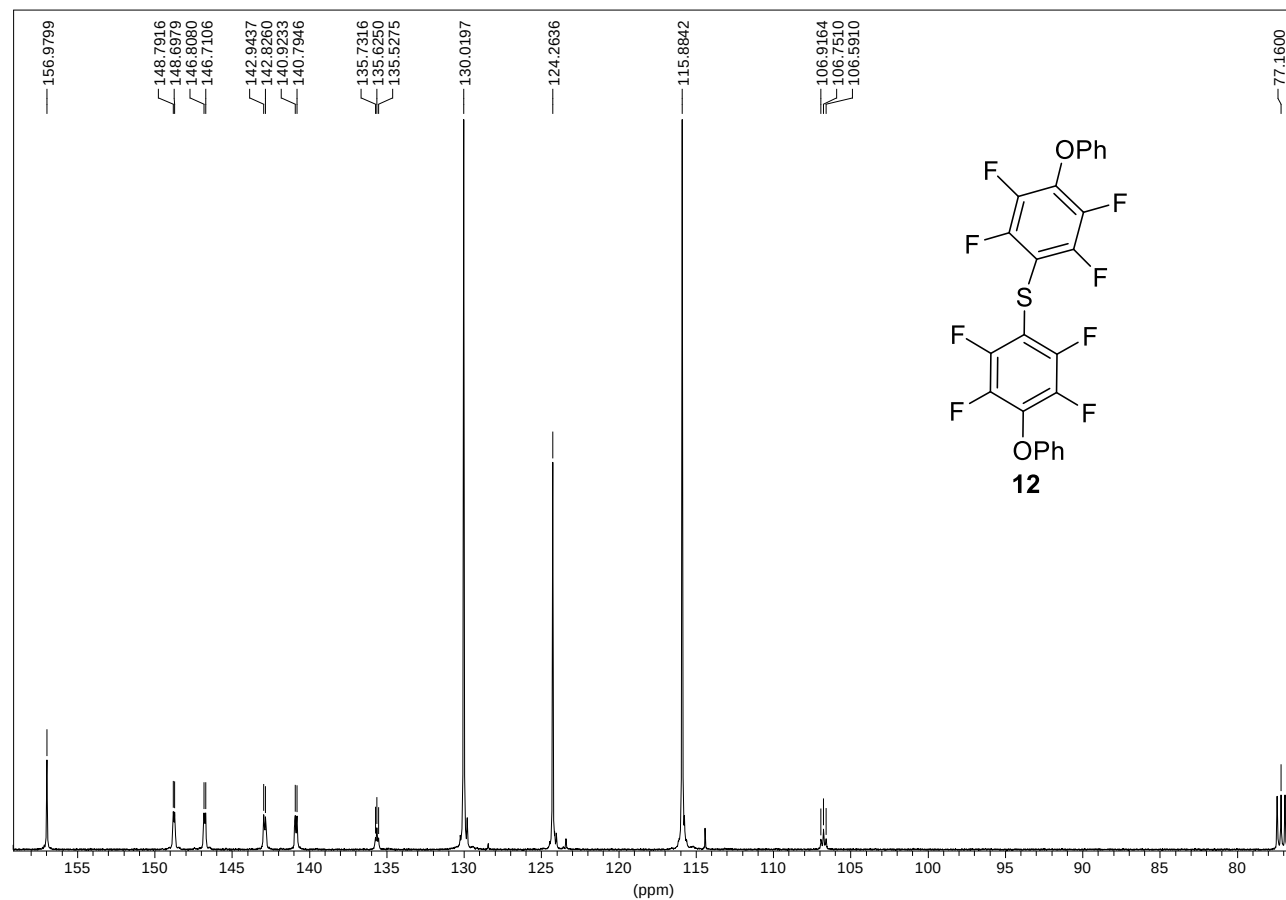


Figure S29. ^{13}C NMR (125.76 MHz, CDCl_3) spectrum of compound **12**

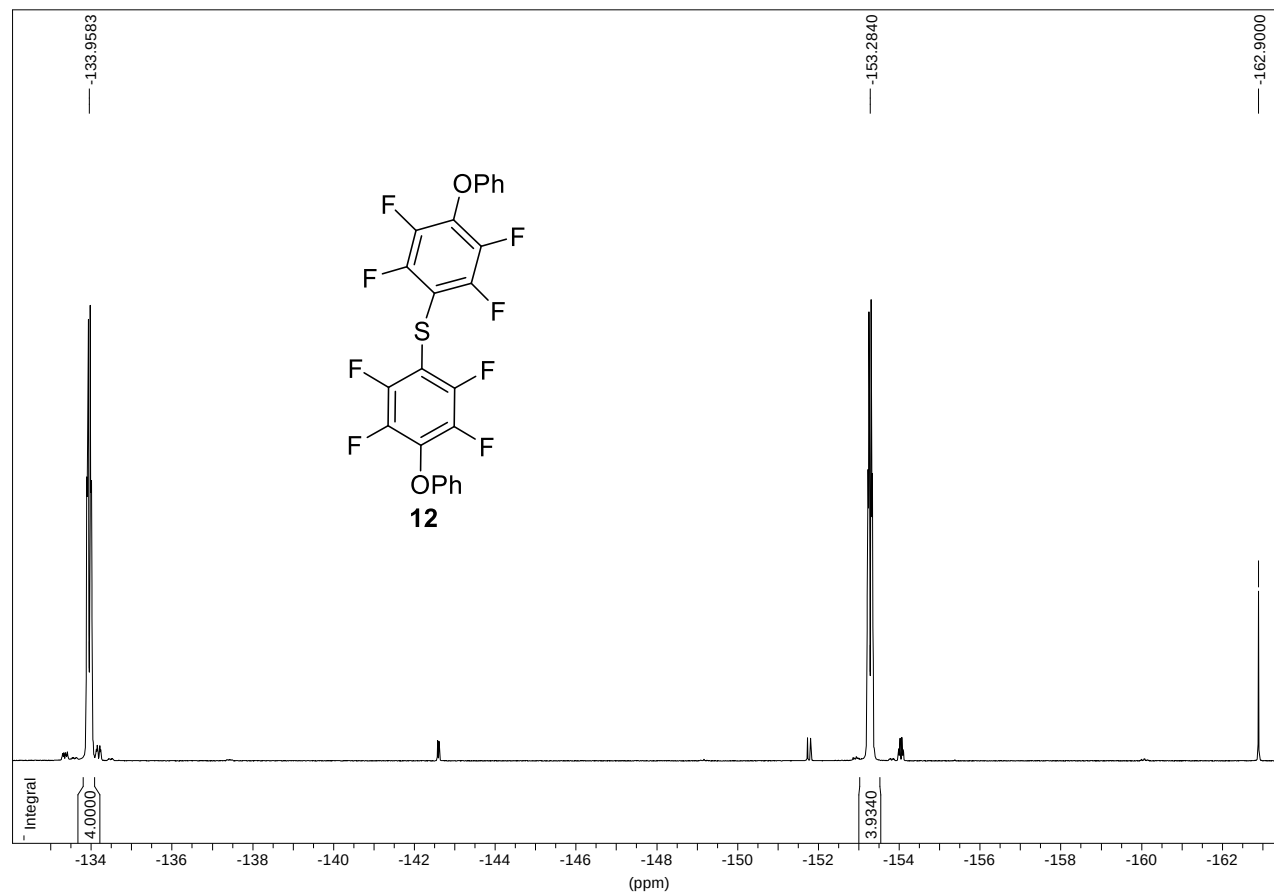


Figure S30. ^{19}F NMR (282.40 MHz, CCl_4 , CDCl_3) spectrum of compound **12**

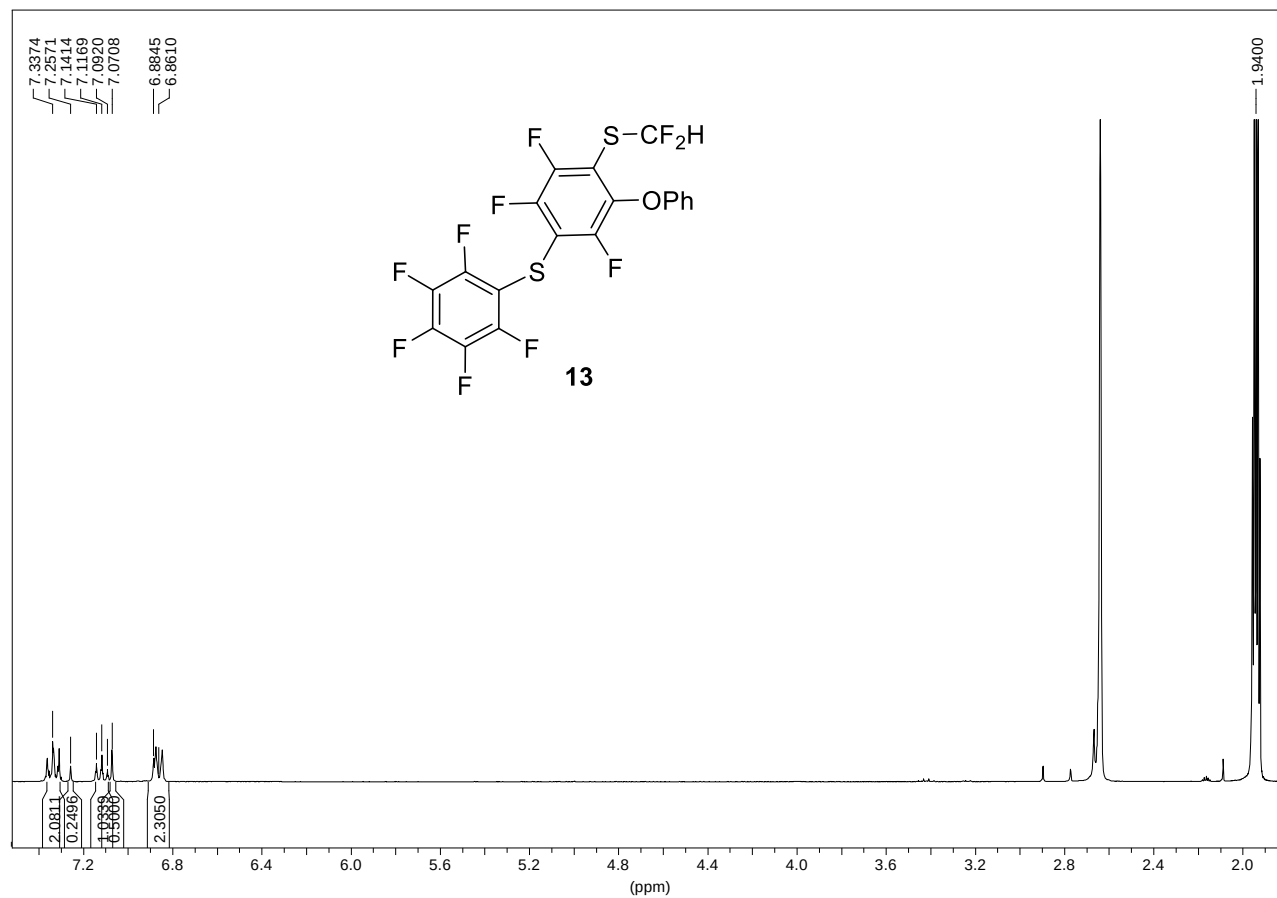


Figure S31. ¹H NMR (400.13 MHz, CD₃CN) spectrum of compound **13**

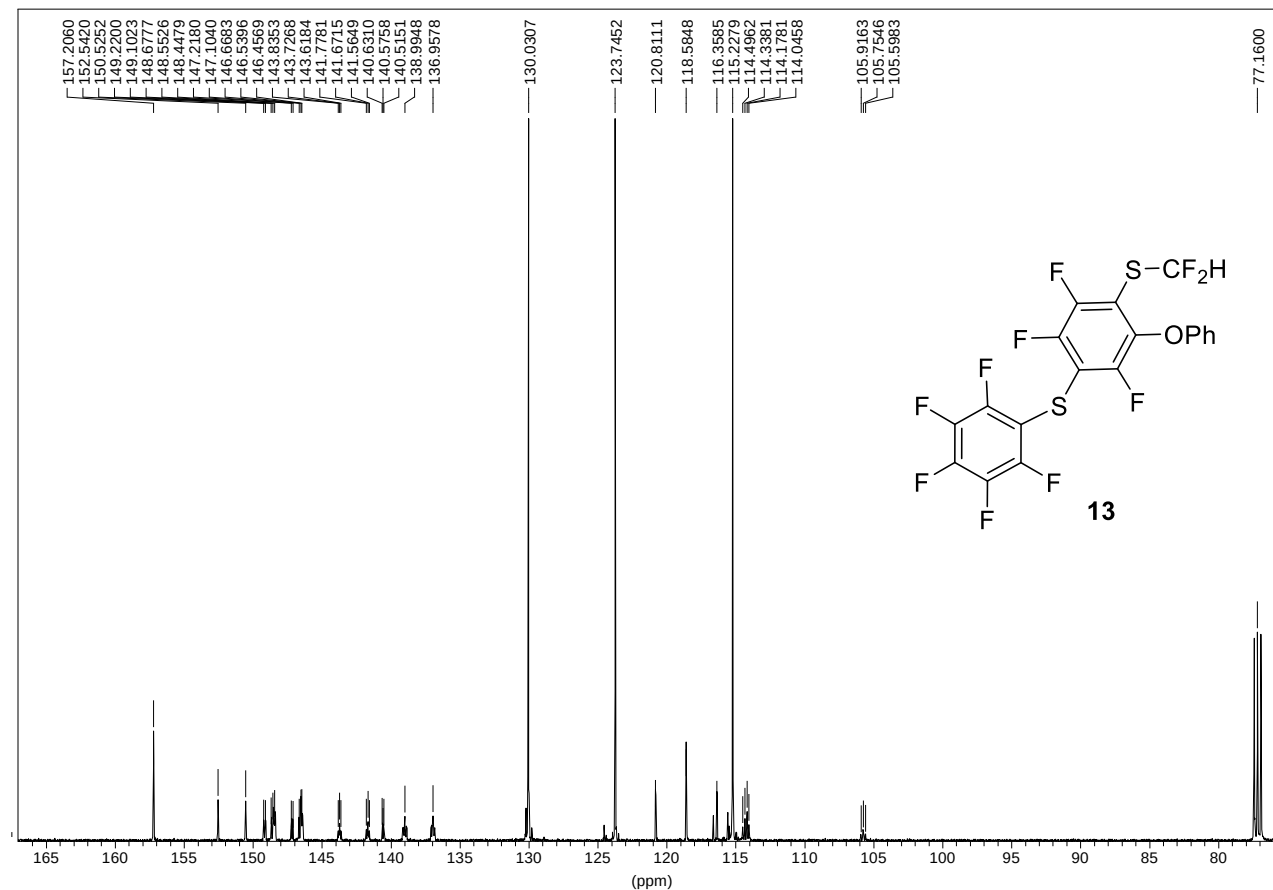


Figure S32. ^{13}C NMR (125.76 MHz, CDCl_3) spectrum of compound **13**

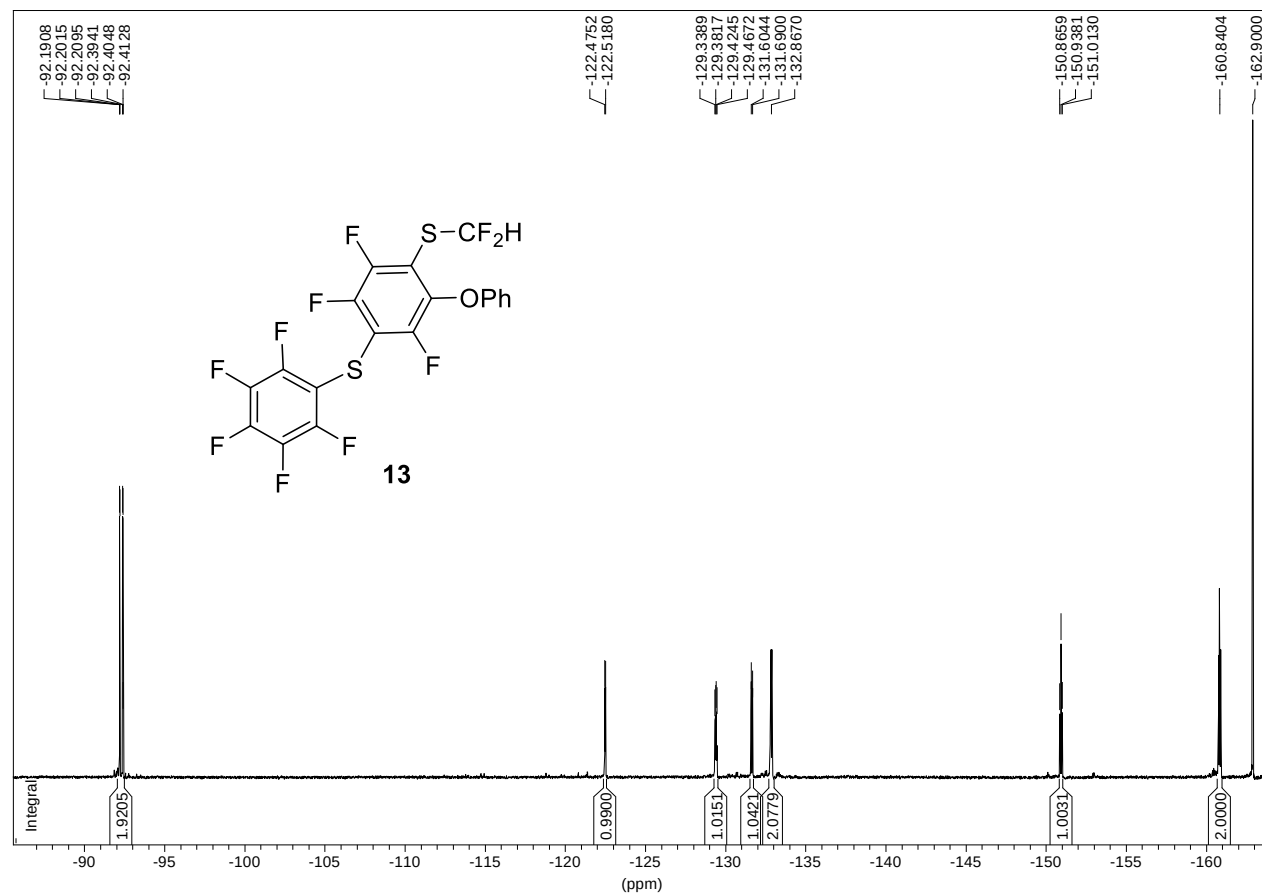


Figure S33. ¹⁹F NMR (282.40 MHz, CCl₄, CDCl₃) spectrum of compound **13**

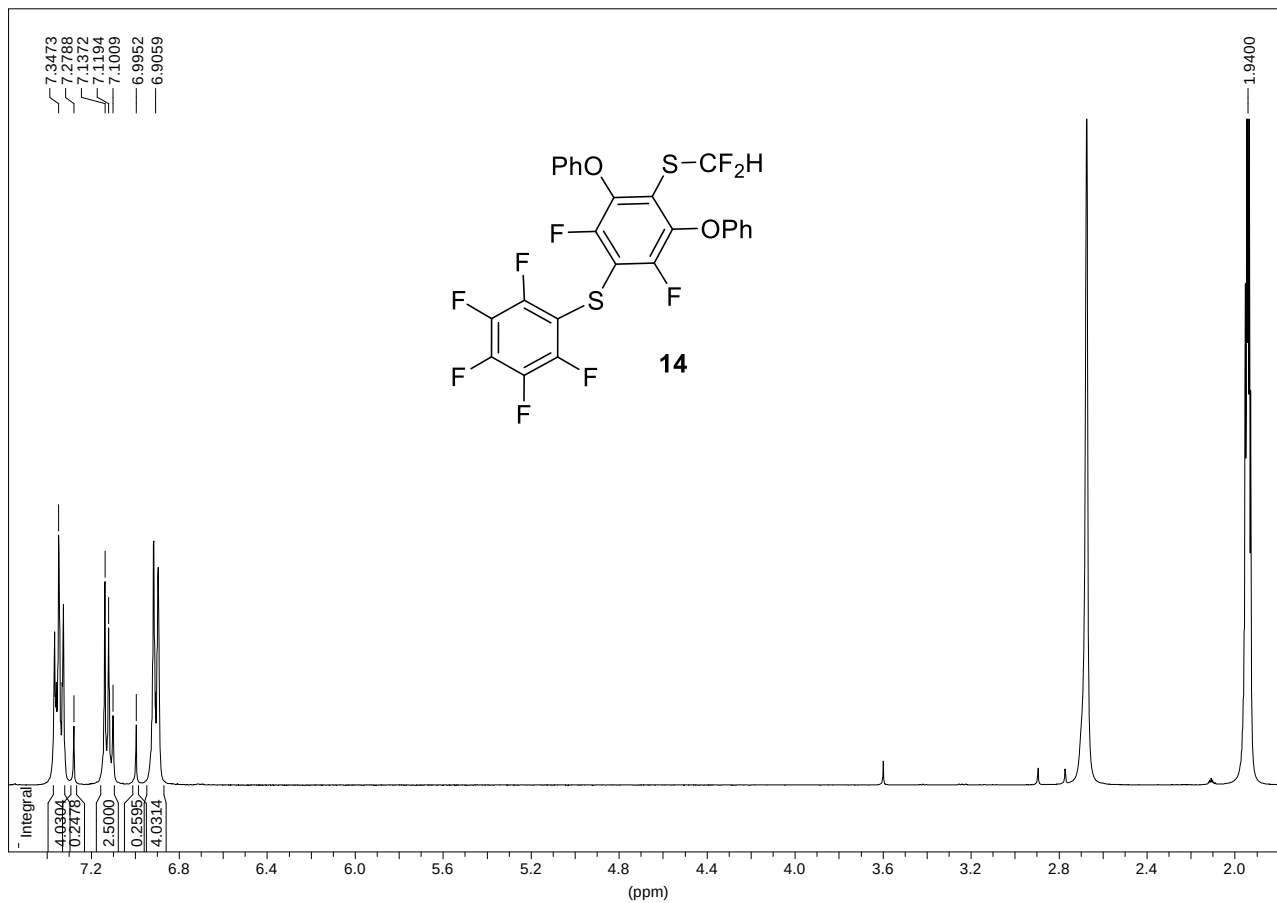


Figure S34. ¹H NMR (400.13 MHz, CD₃CN) spectrum of compound **14**

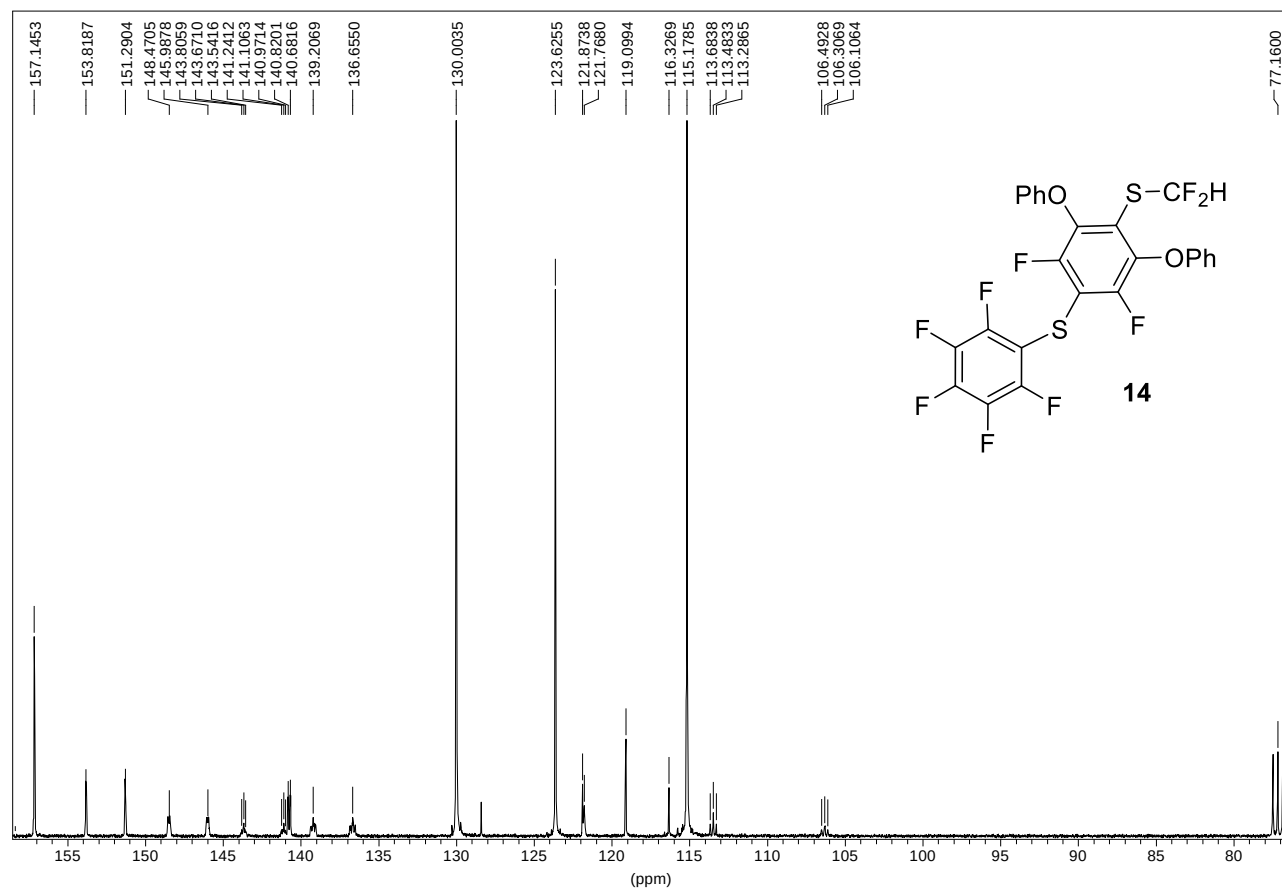


Figure S35. ^{13}C NMR (100.61 MHz, CDCl_3) spectrum of compound **14**

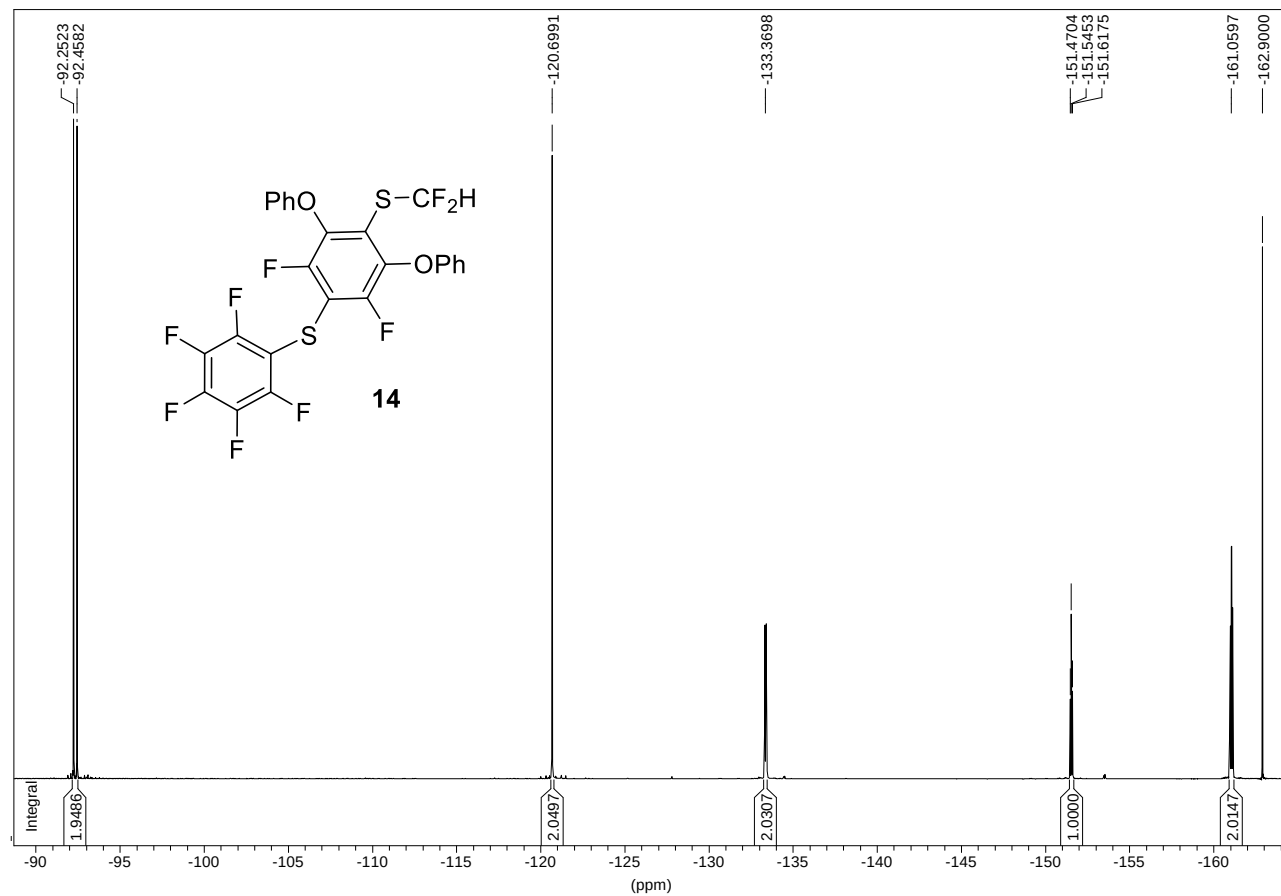


Figure S36. ¹⁹F NMR (282.40 MHz, CCl₄, CDCl₃) spectrum of compound **14**

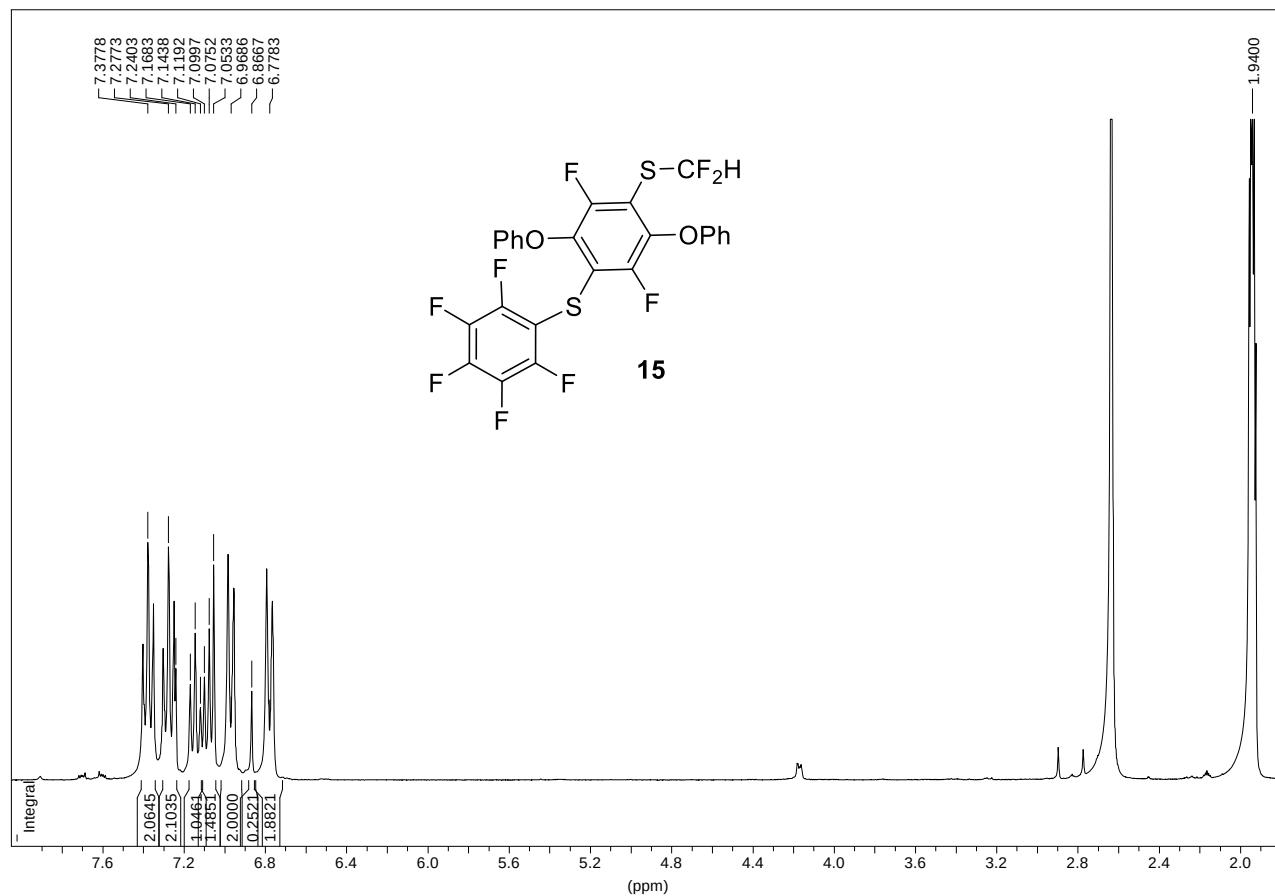


Figure S37. ^1H NMR (300.13 MHz, CD_3CN) spectrum of compound **15**

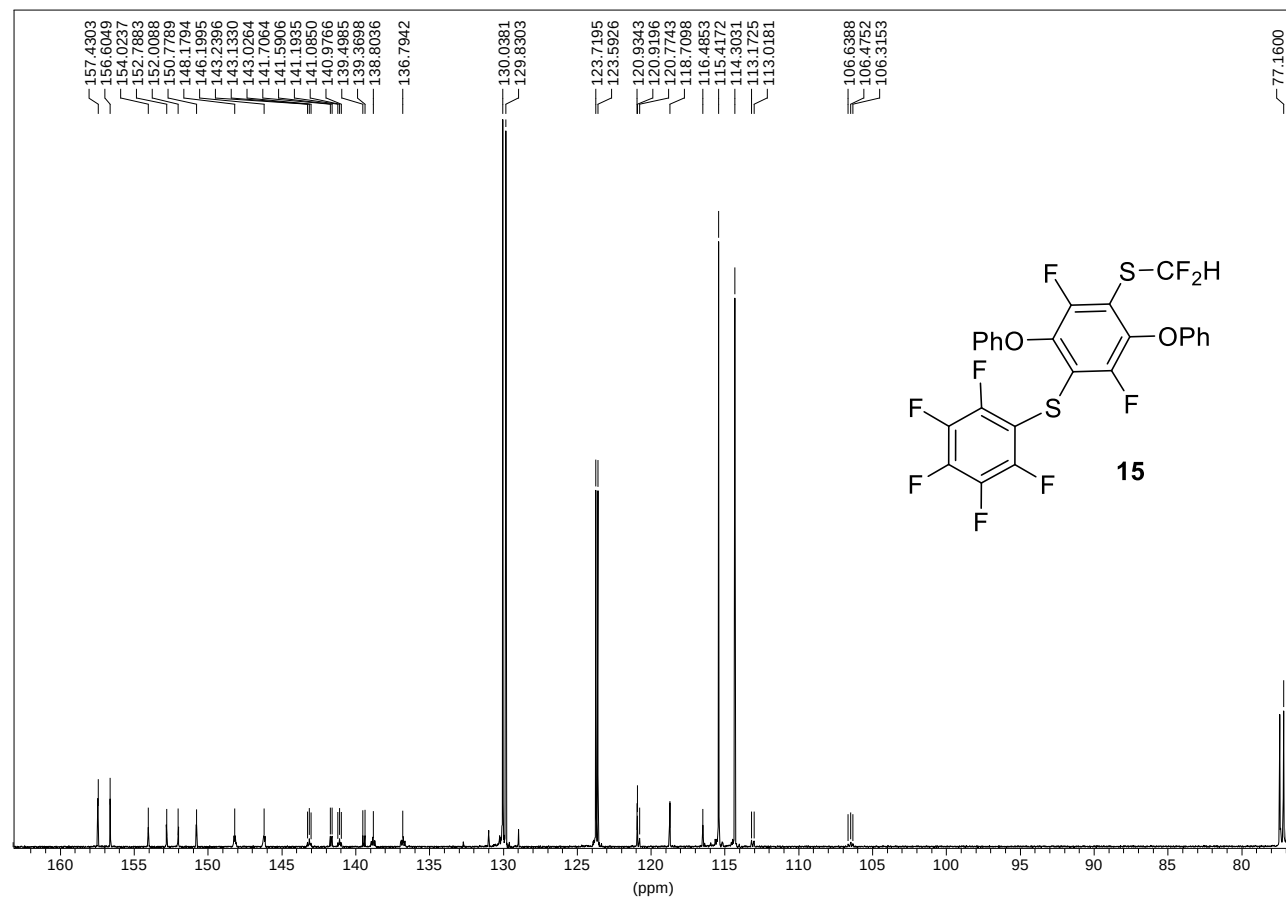


Figure S38. ¹³C NMR (125.76 MHz, CDCl₃) spectrum of compound **15**

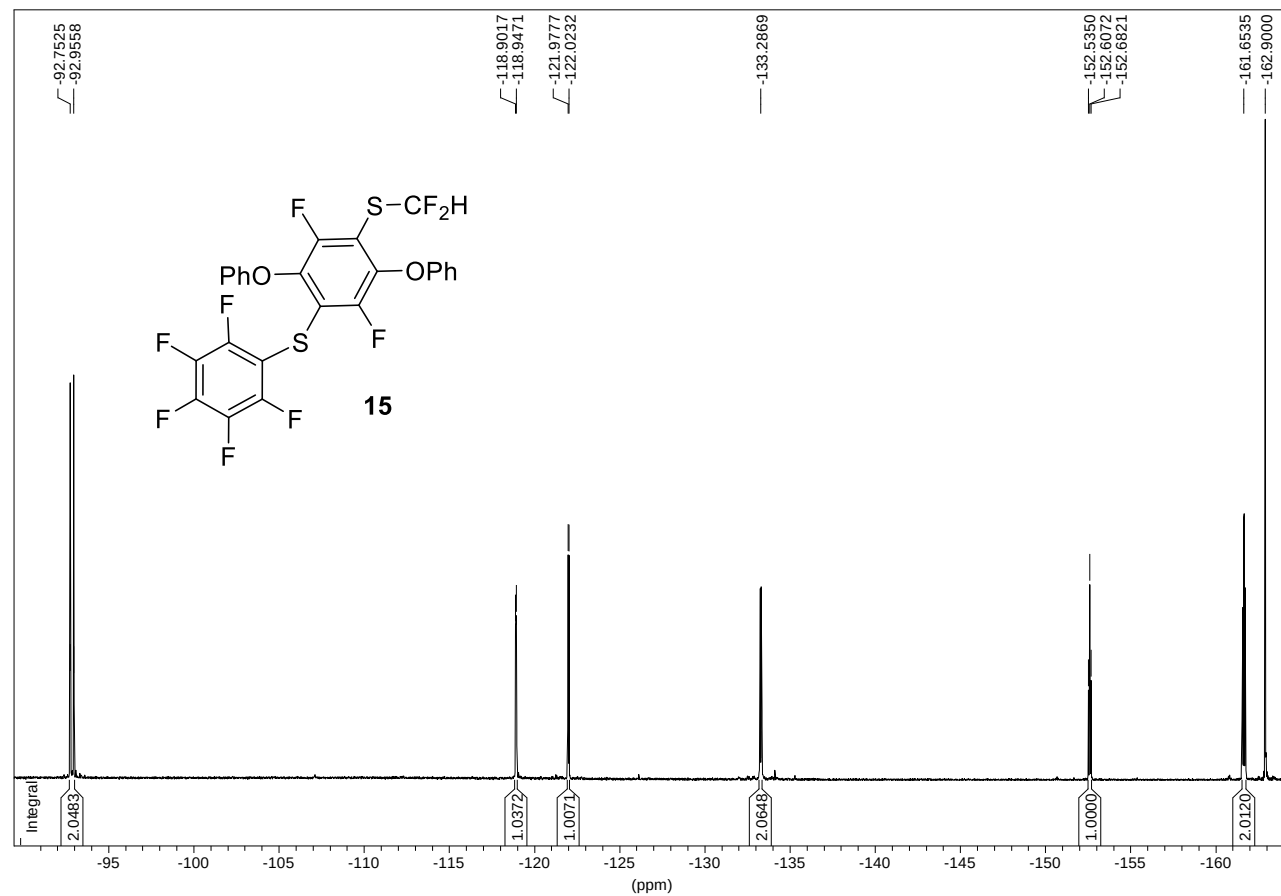


Figure S39. ¹⁹F NMR (282.40 MHz, CCl₄, CDCl₃) spectrum of compound **15**