

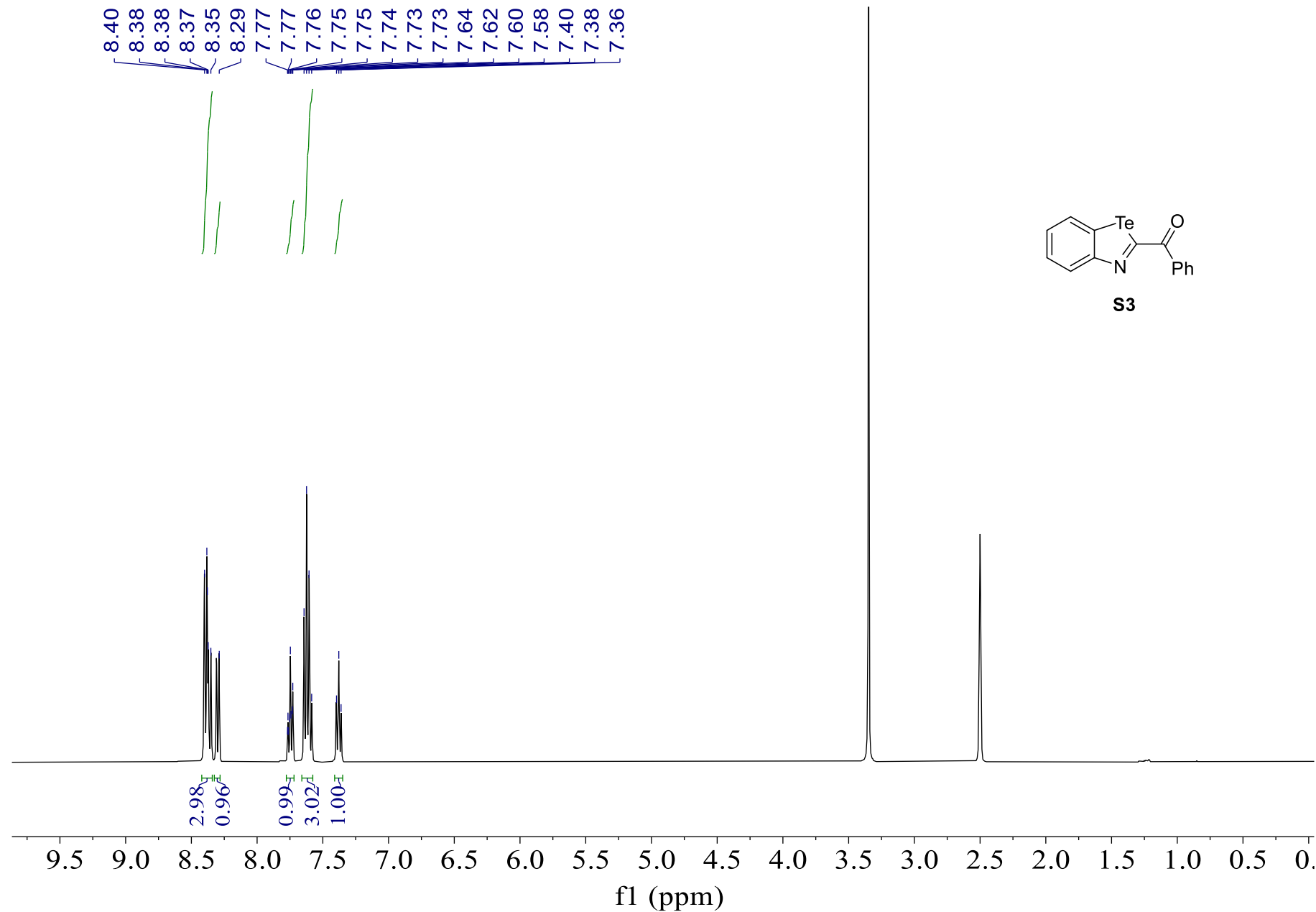


Figure S1. ^1H NMR spectrum (400 MHz, 25 °C) of **S3** in $\text{DMSO}-d_6$.

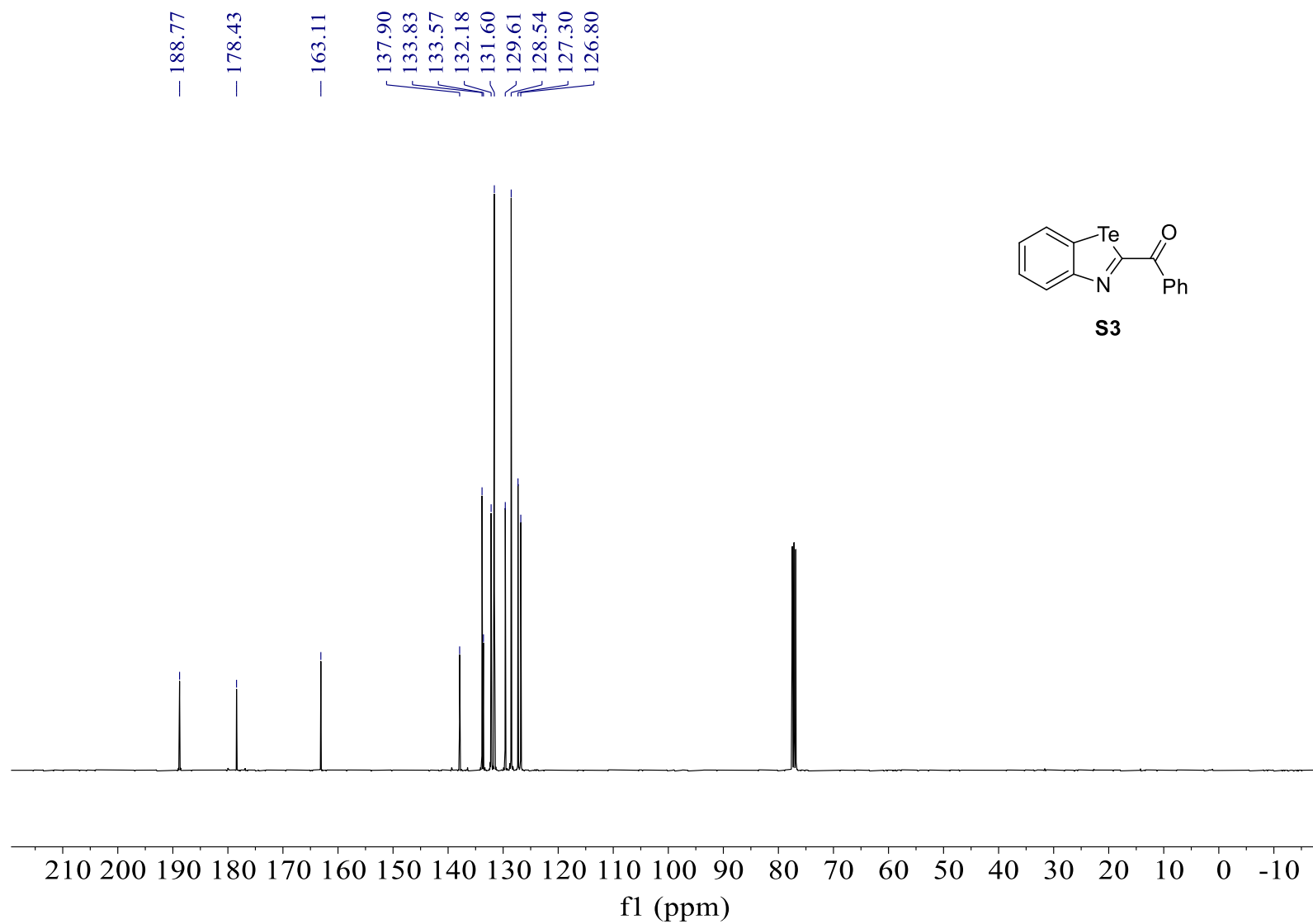


Figure S2. ^{13}C NMR spectrum (101 MHz, 25 °C) of **S3** in CDCl_3 .

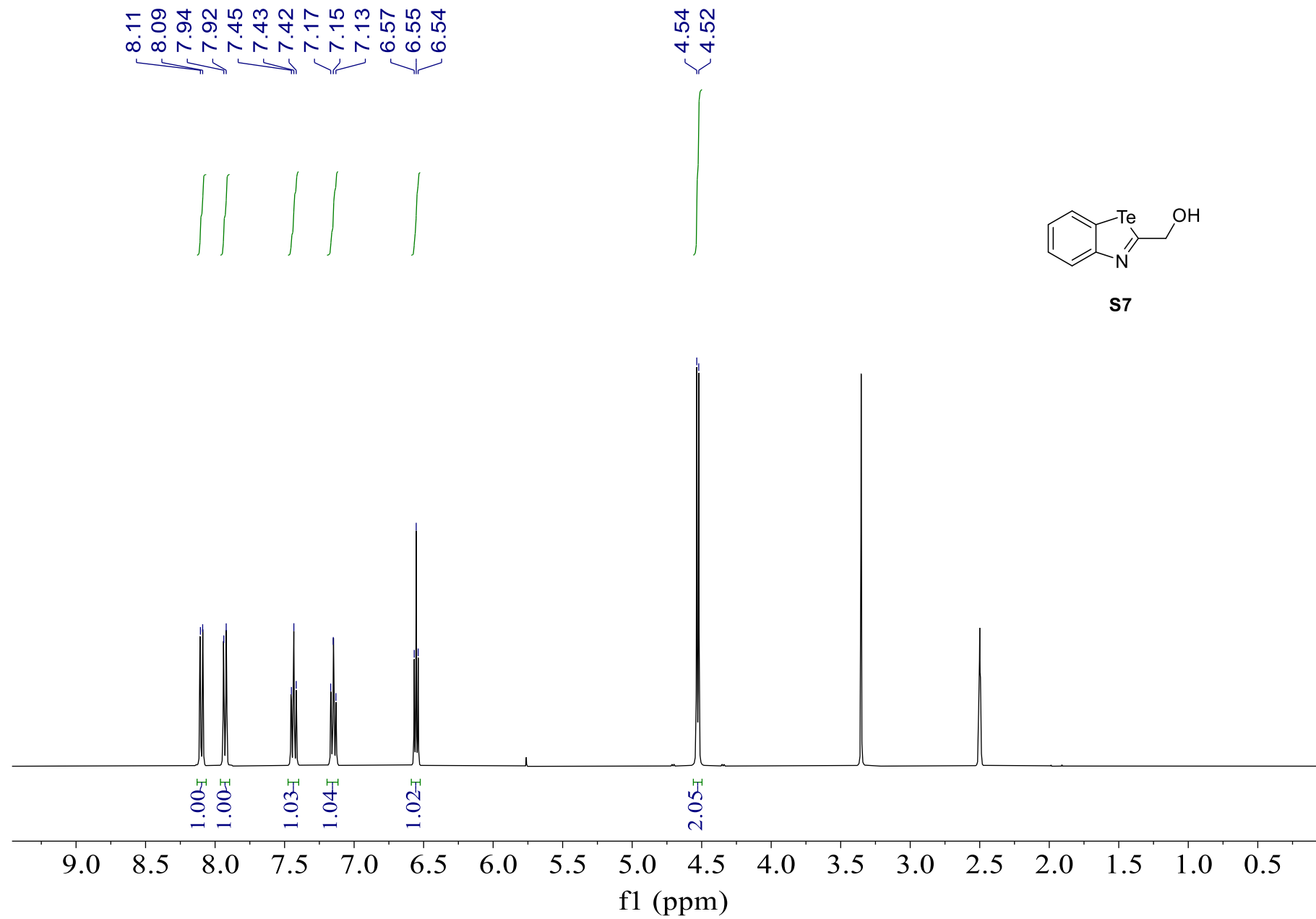


Figure S3. ¹H NMR spectrum (400 MHz, 25 °C) of **S7** in DMSO-*d*₆.

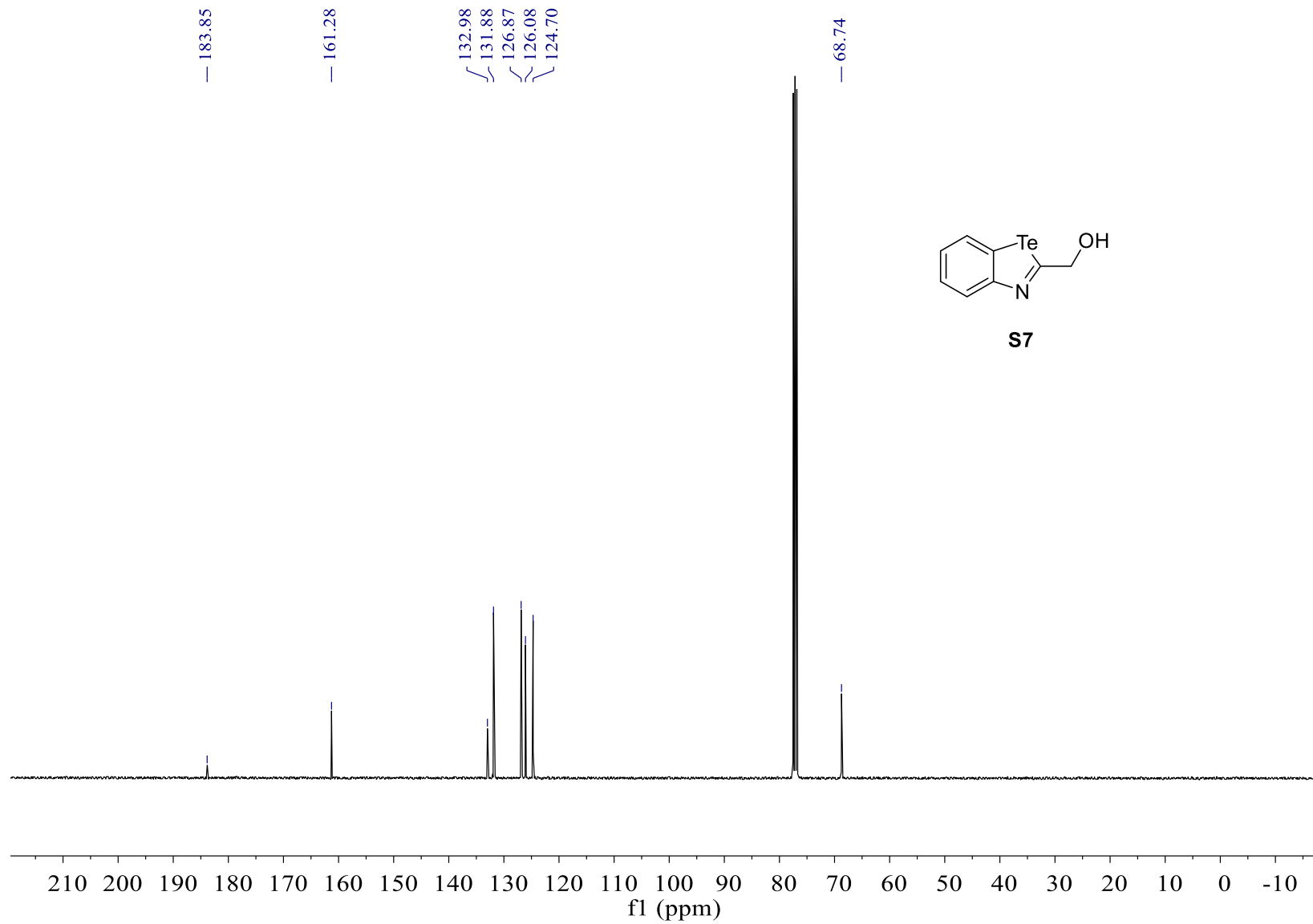


Figure S4. ^{13}C NMR spectrum (101 MHz, 25 °C) of **S7** in CDCl_3 .

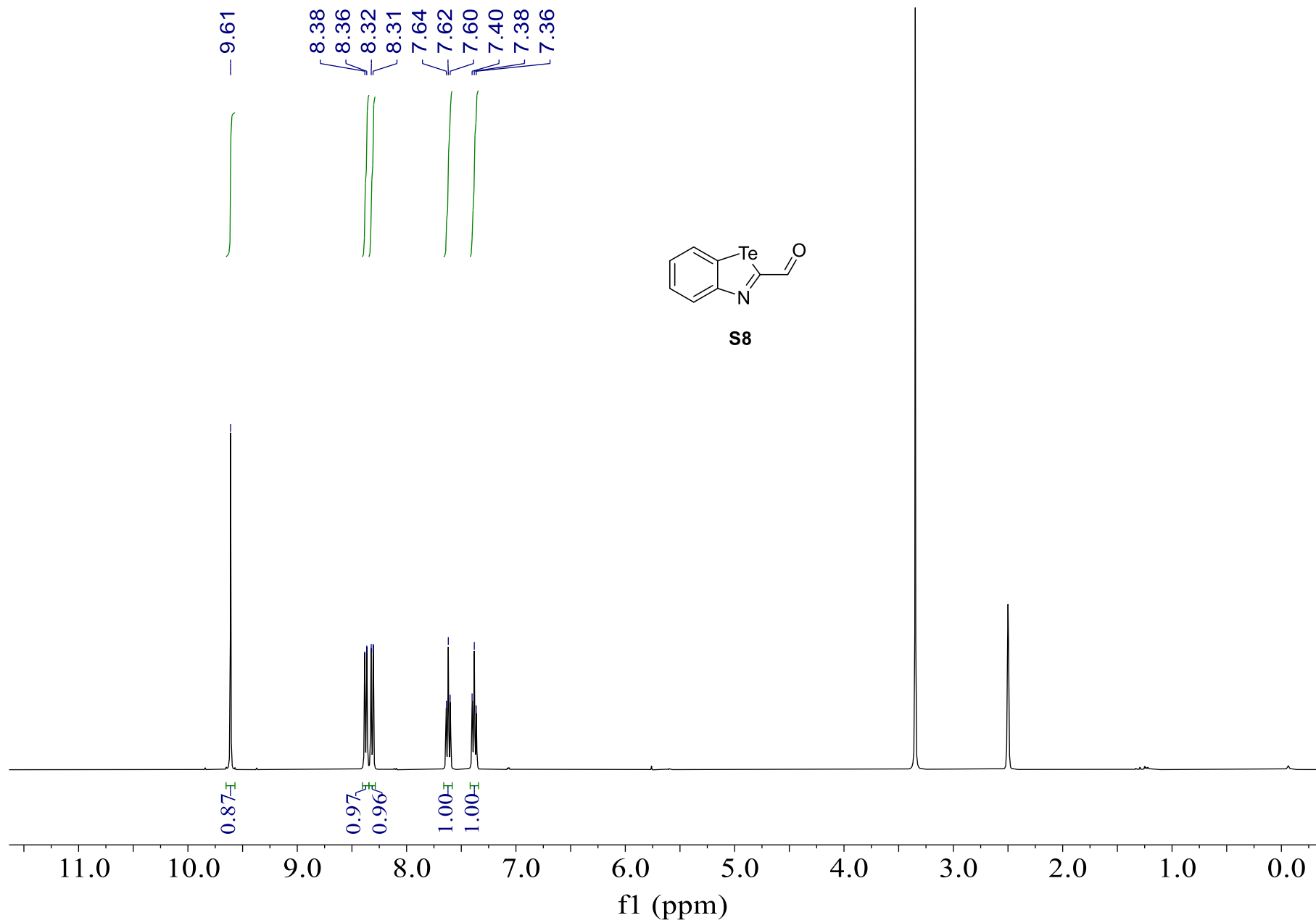


Figure S5. ^1H NMR spectrum (400 MHz, 25 °C) of **S8** in $\text{DMSO-}d_6$.

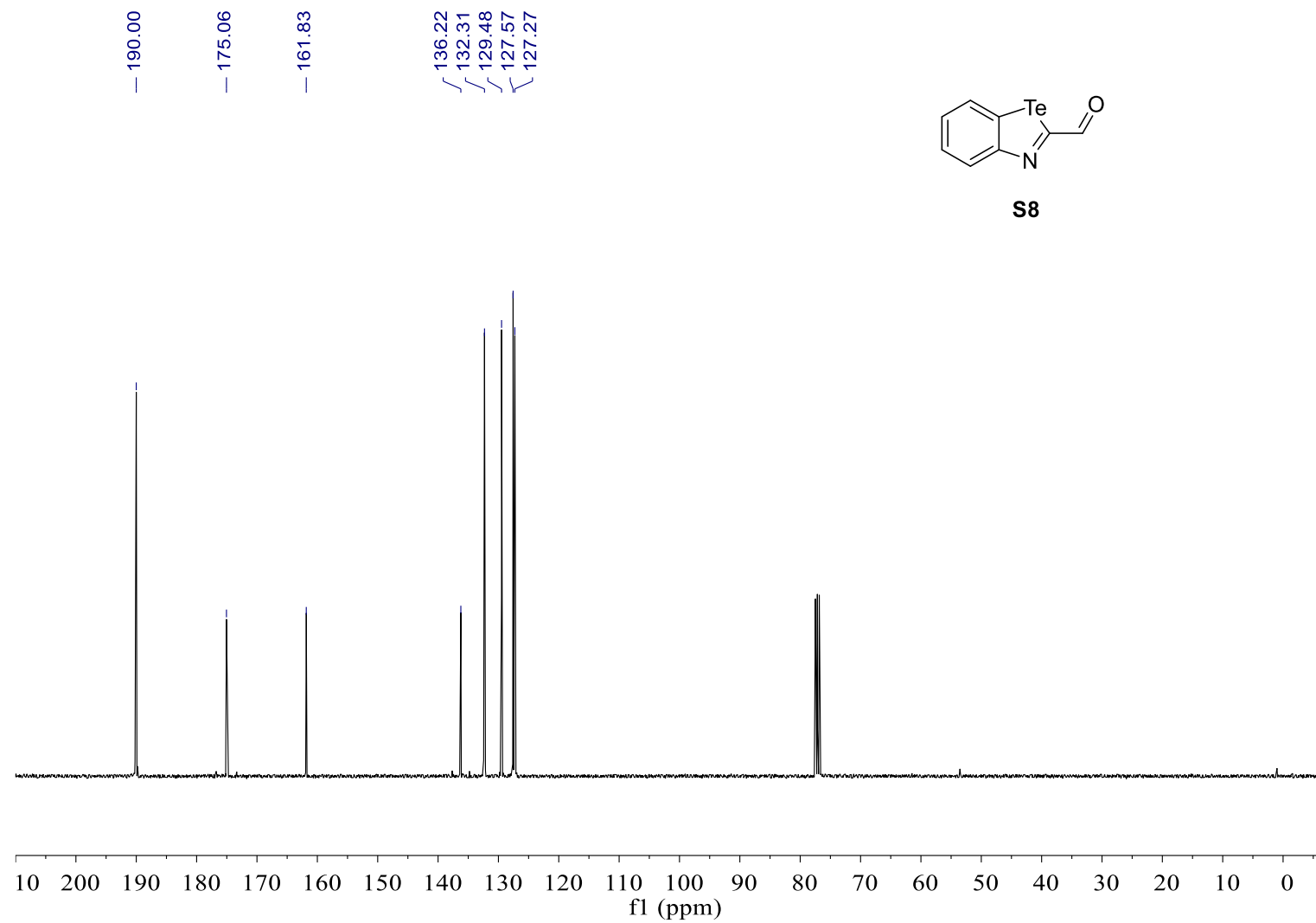


Figure S6. ^{13}C NMR spectrum (101 MHz, 25 °C) of **S8** in CDCl_3 .

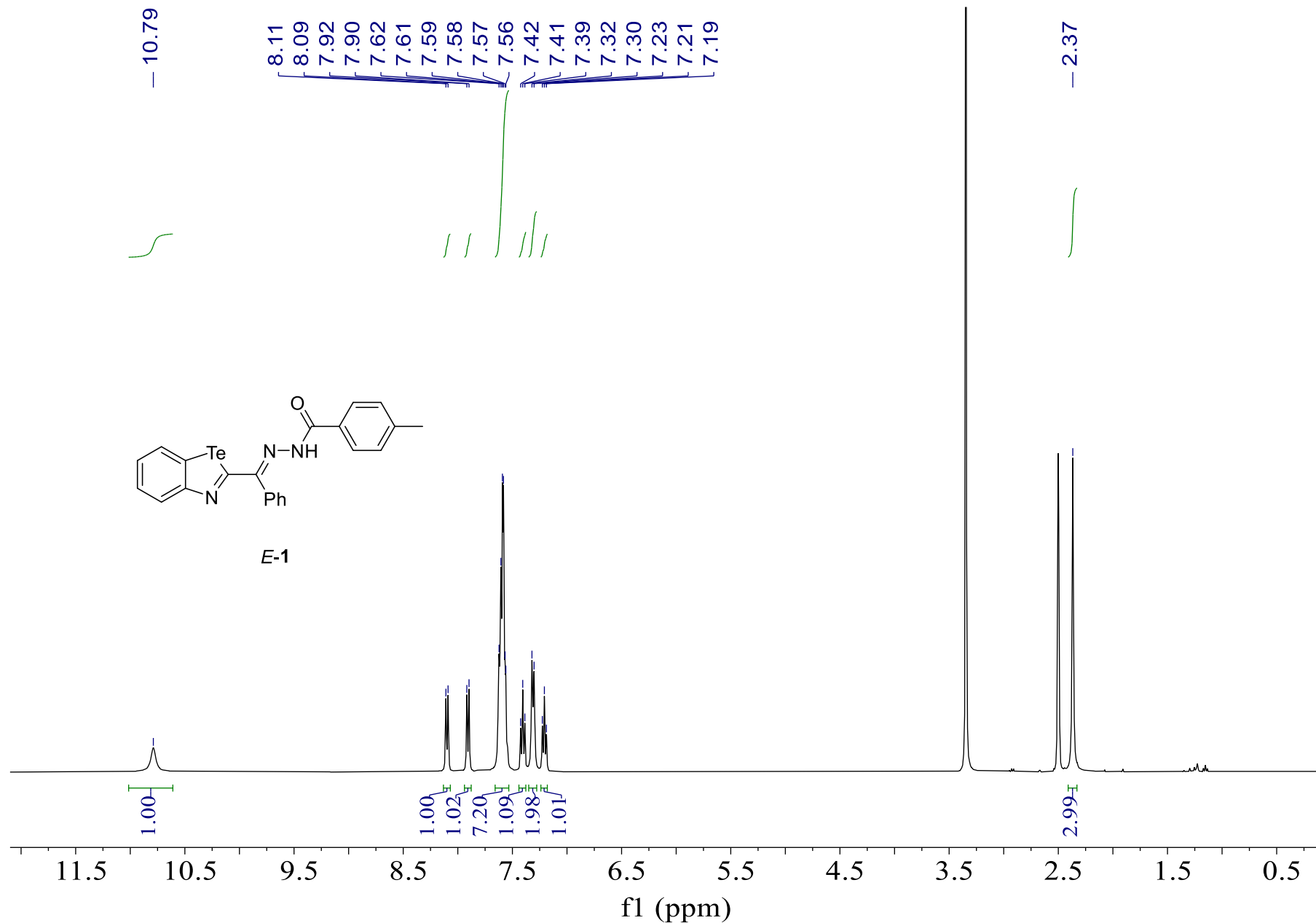


Figure S7. ¹H NMR spectrum (400 MHz, 25 °C) of *E-1* in DMSO-*d*₆.

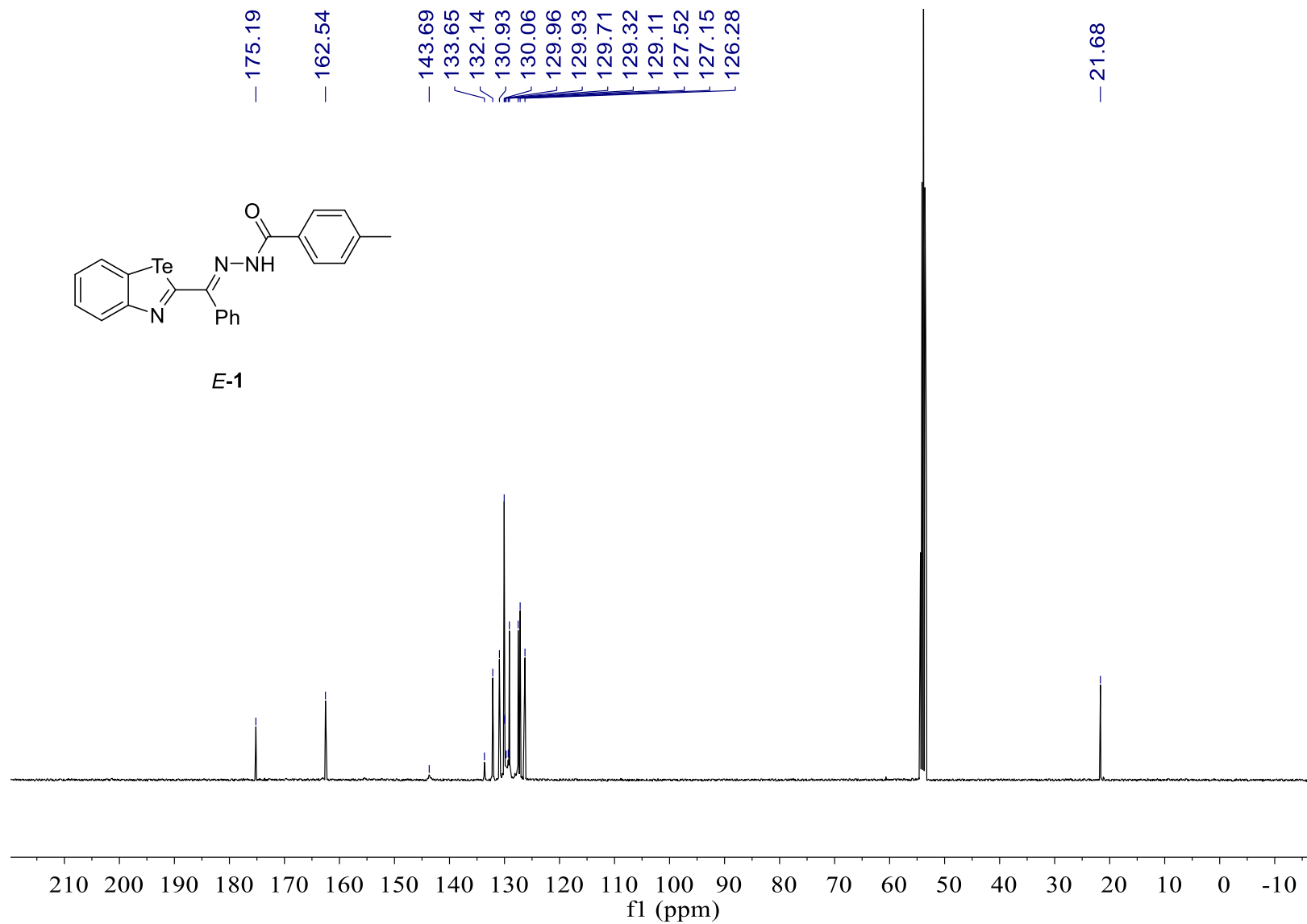


Figure S8. ^{13}C NMR spectrum (101 MHz, 25 °C) of *E*-1 in CD_2Cl_2 .

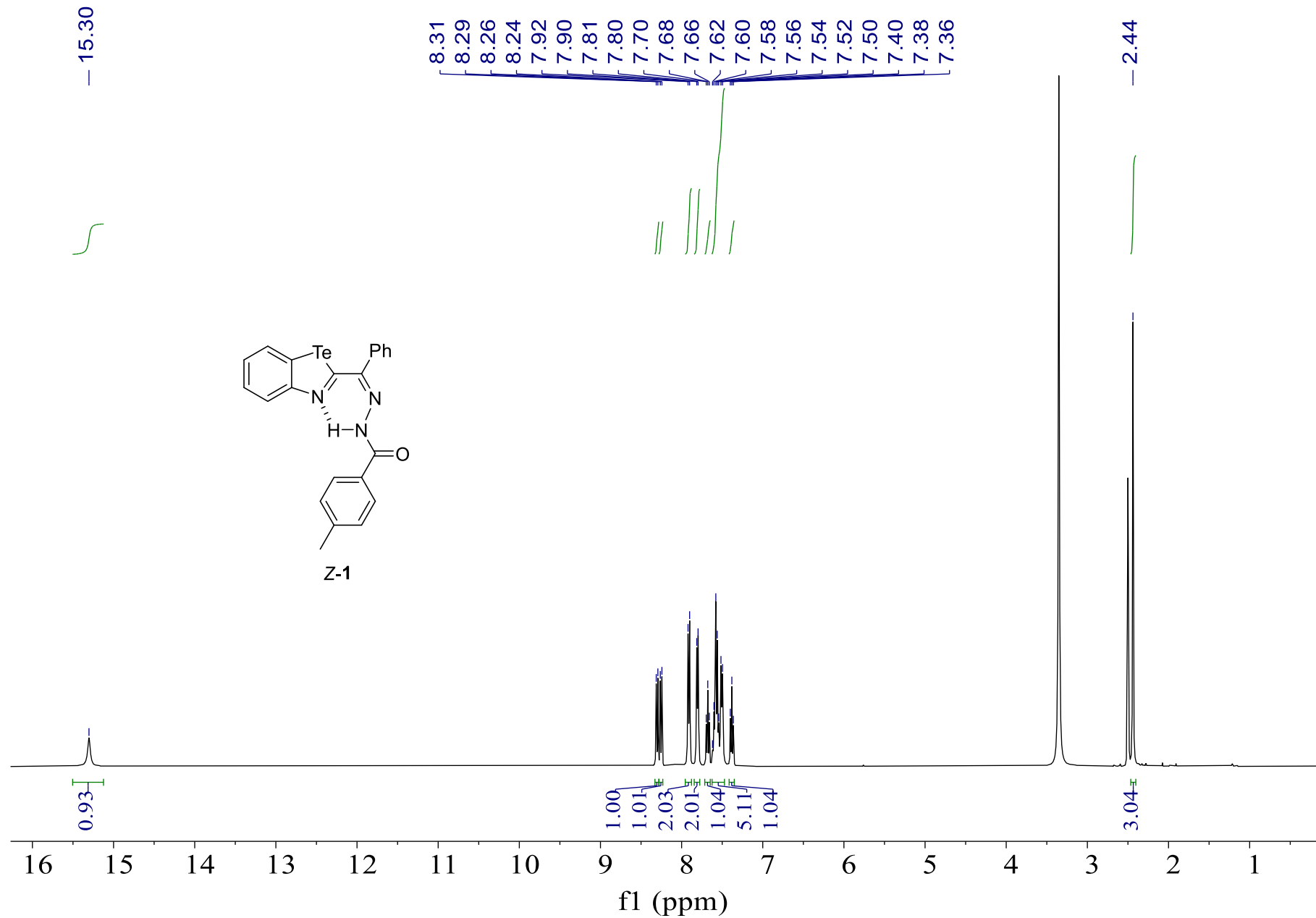


Figure S9. ¹H NMR spectrum (400 MHz, 25 °C) of **Z-1** in DMSO-*d*₆.

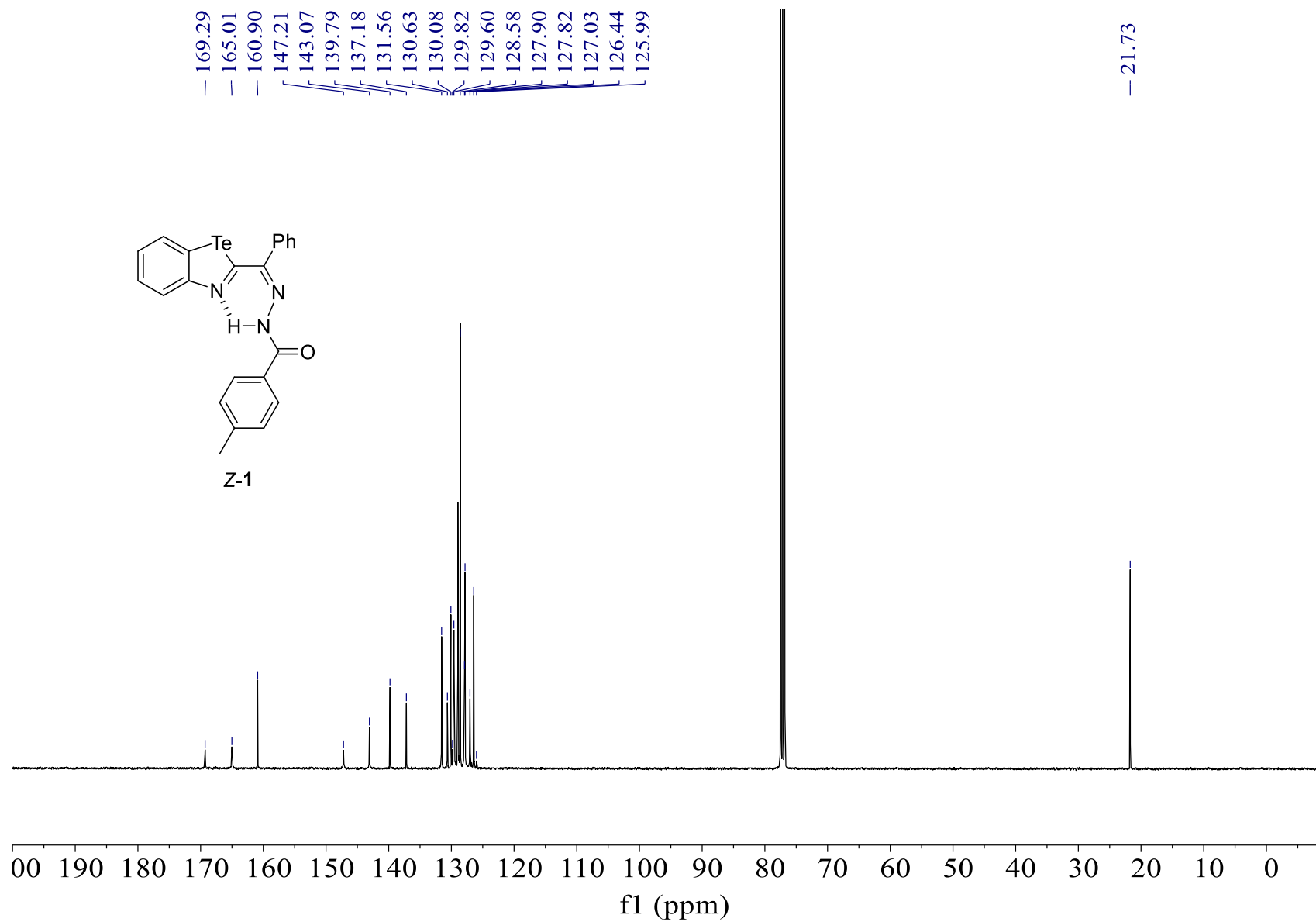


Figure S10. ¹³C NMR spectrum (101 MHz, 25 °C) of Z-1 in CDCl₃.

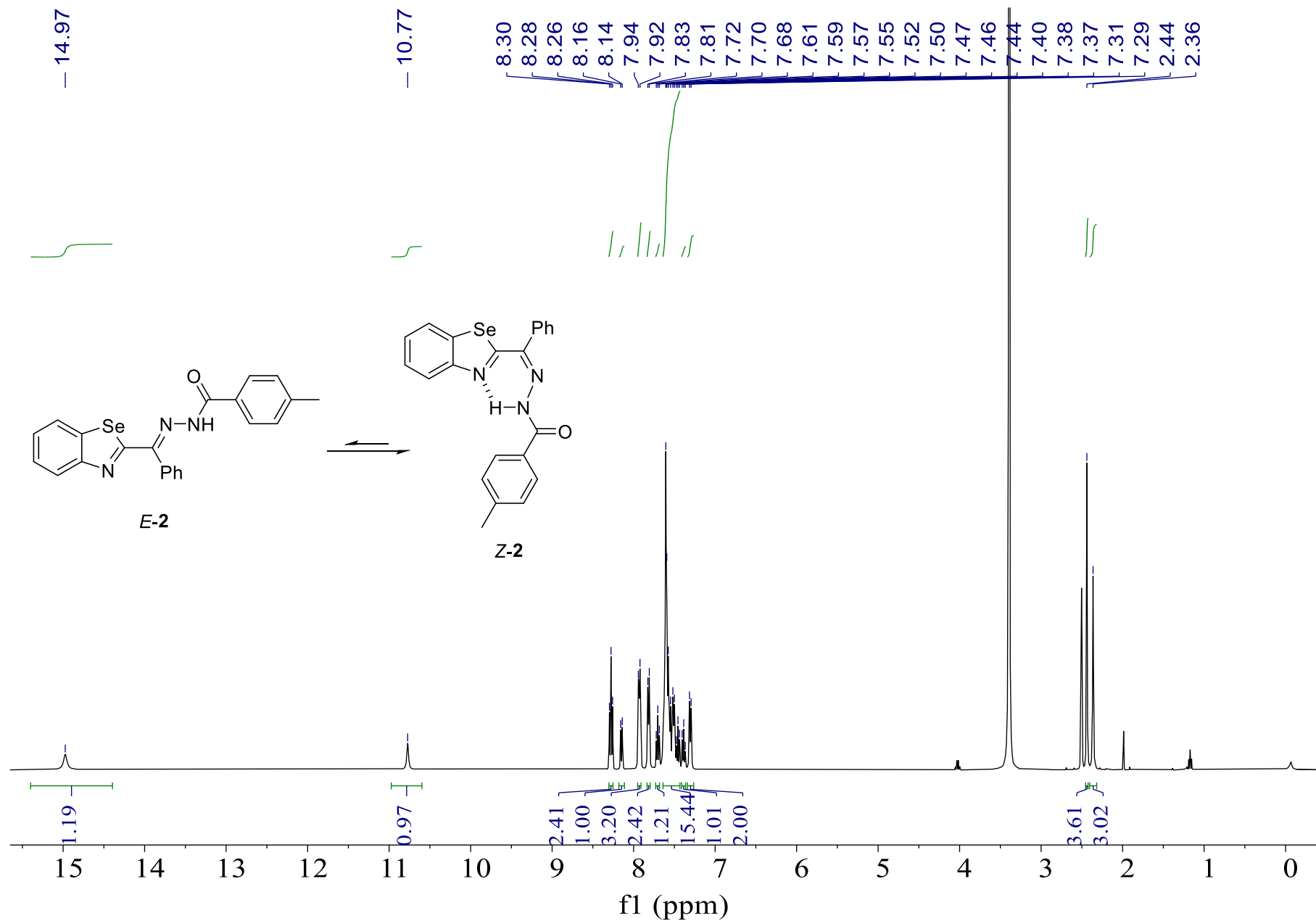


Figure S11. ^1H NMR spectrum (400 MHz, 25 °C) of *E*-2/*Z*-2 in $\text{DMSO}-d_6$. The ratio of *E*-2 and *Z*-2 is 45:55.

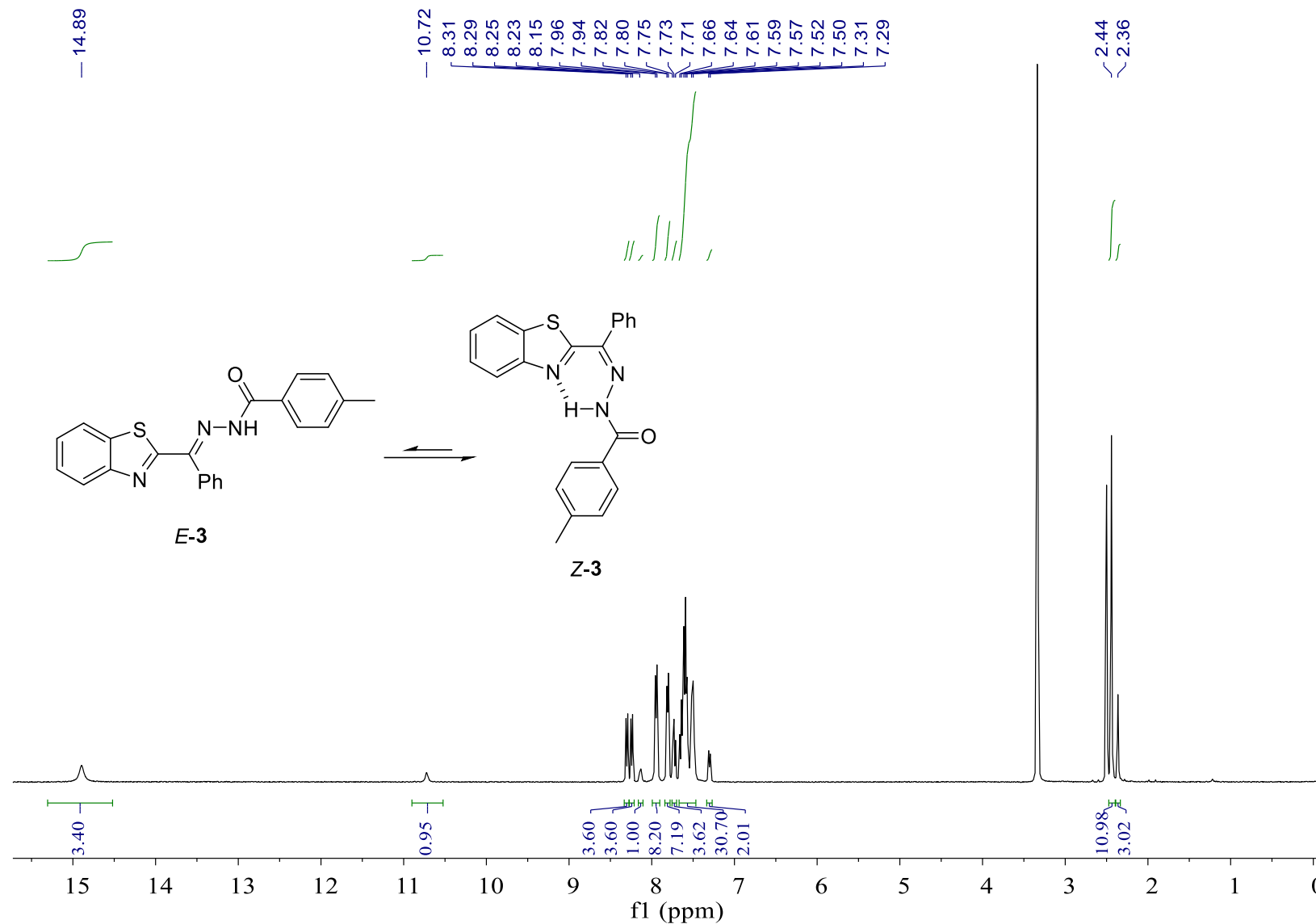


Figure S12. ^1H NMR spectrum (400 MHz, 25 °C) of E -3/ Z -3 in $\text{DMSO}-d_6$. The ratio of E -3 and Z -3 is 22:78.

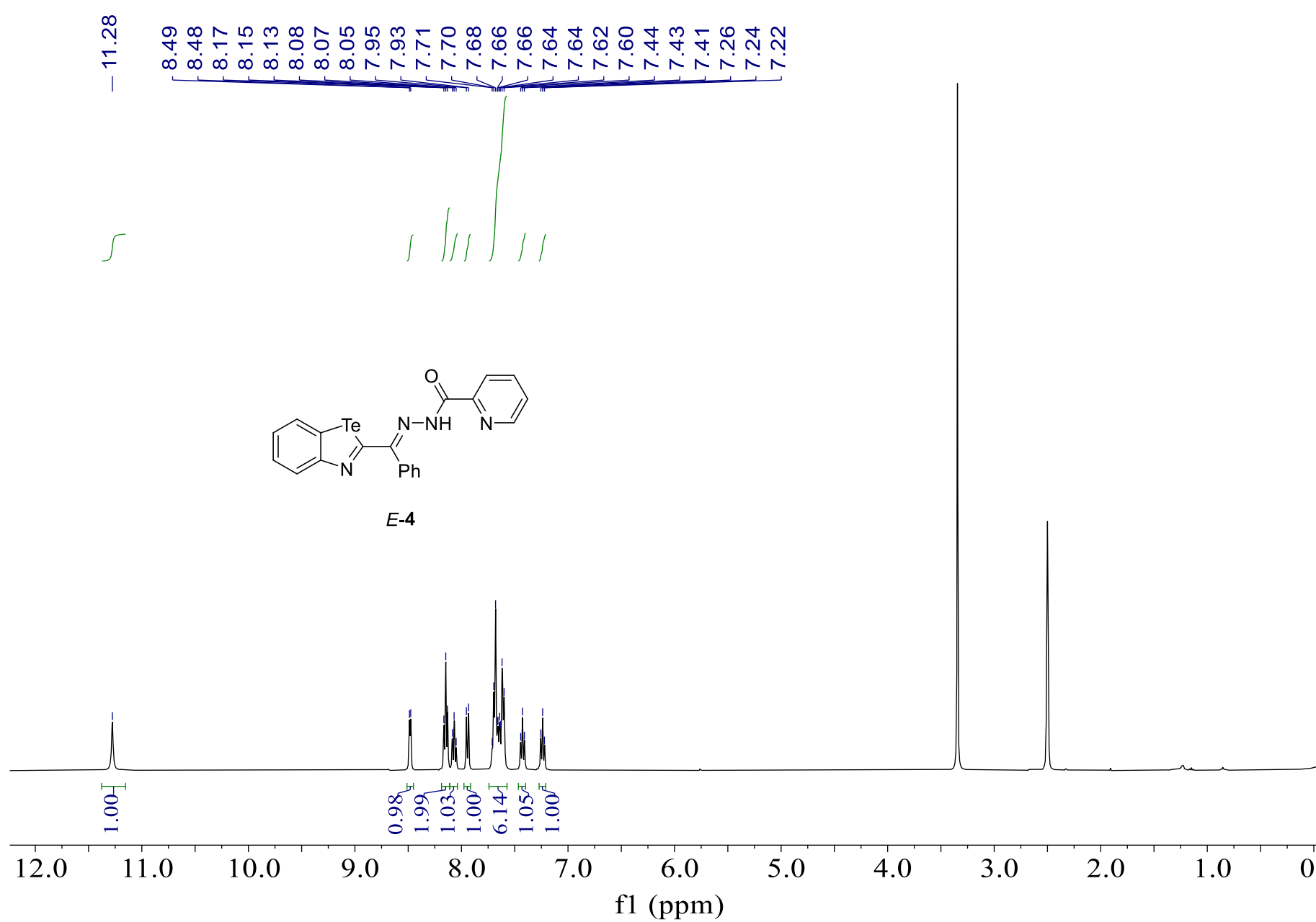


Figure S13. ^1H NMR spectrum (400 MHz, 25 °C) of **E-4** in $\text{DMSO}-d_6$.

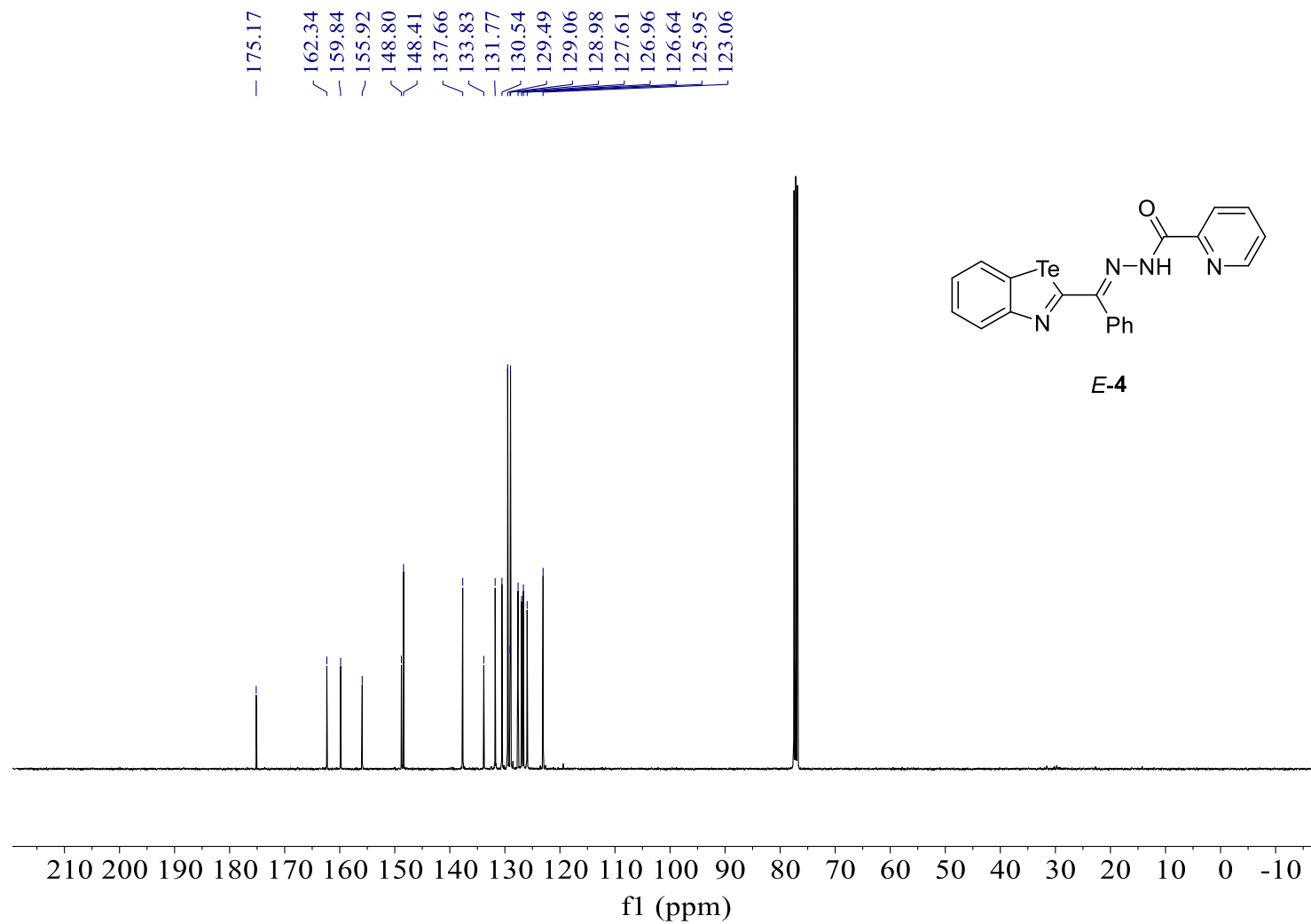


Figure S14. ^{13}C NMR spectrum (101 MHz, 25 °C) of *E-4* in CDCl_3 .

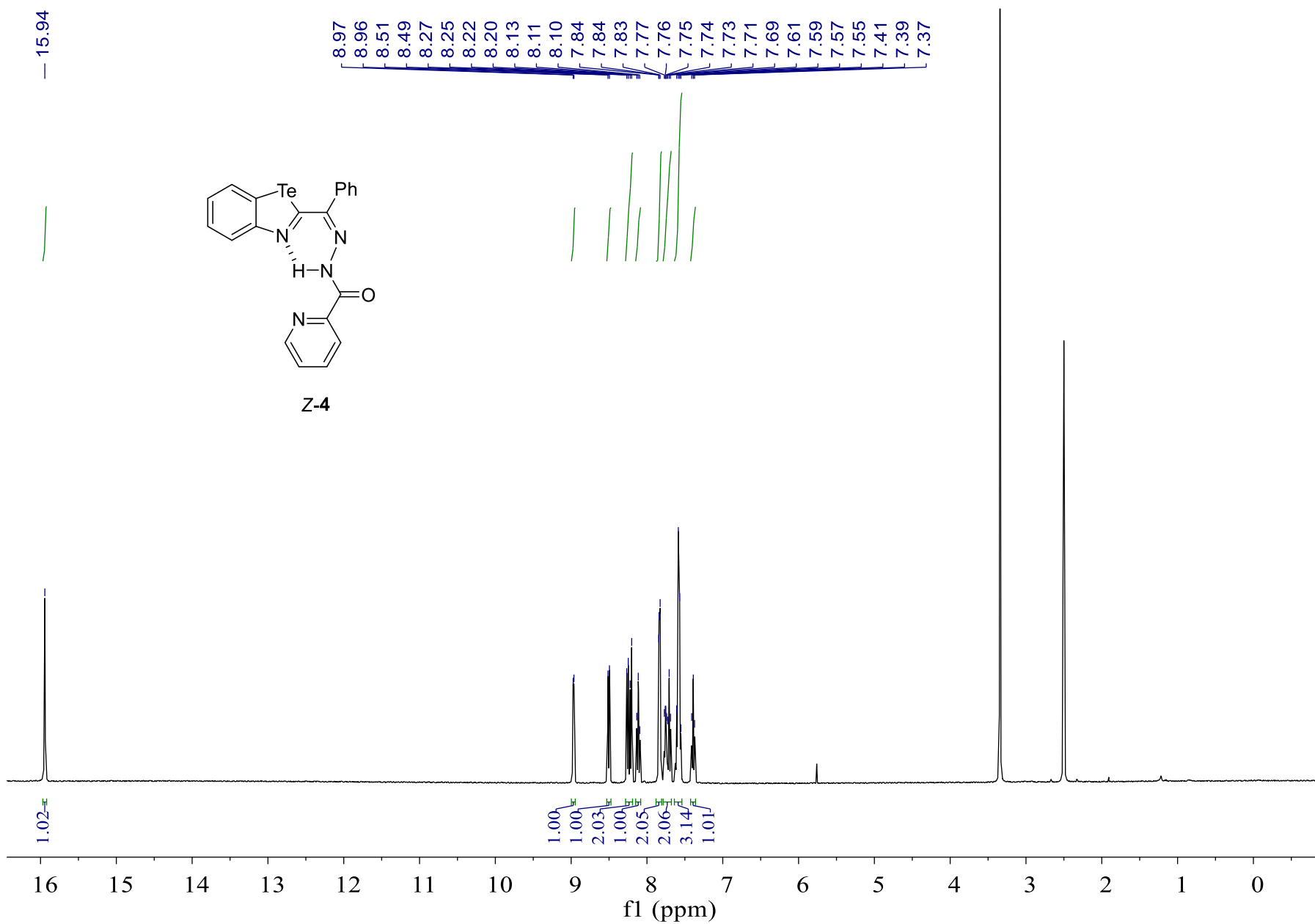


Figure S15. ^1H NMR spectrum (400 MHz, 25 °C) of **Z-4** in $\text{DMSO-}d_6$.

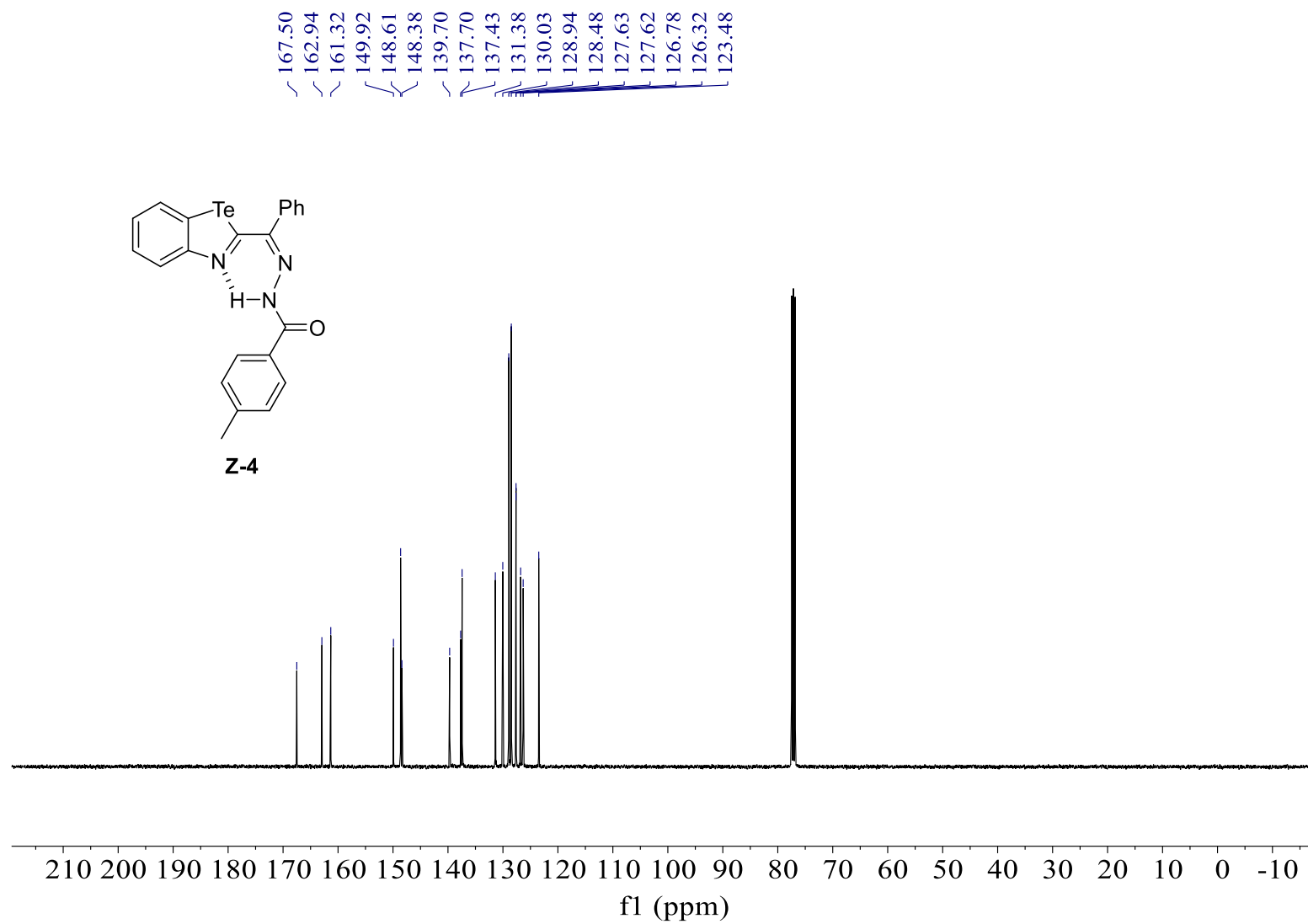


Figure S16. ^{13}C NMR spectrum (101 MHz, 25 °C) of **Z-4** in CDCl_3 .

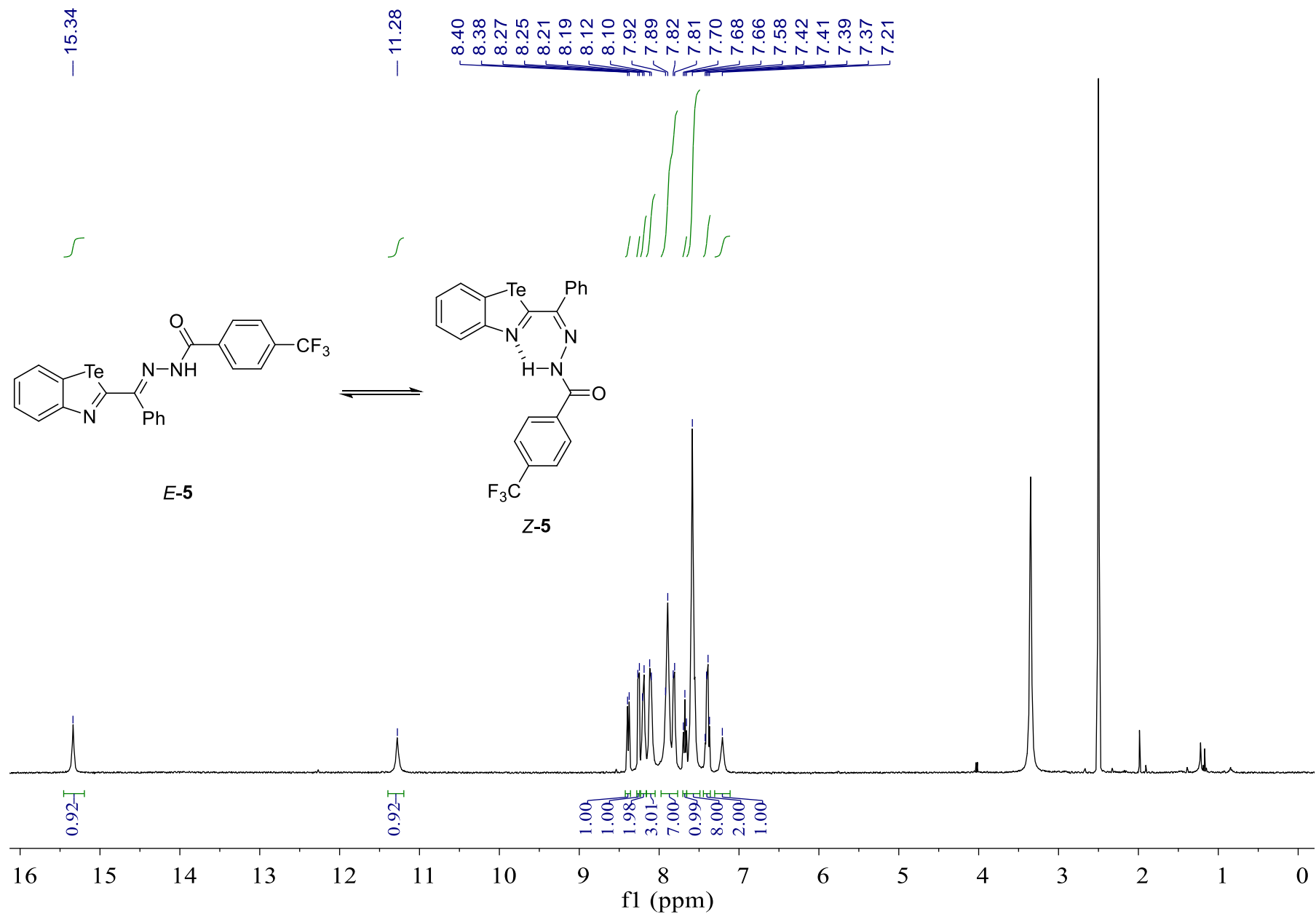


Figure S17. ^1H NMR spectrum (400 MHz, 25 °C) of *E*-5/*Z*-5 in $\text{DMSO-}d_6$. The ratio of *E*-5 and *Z*-5 is 50:50.

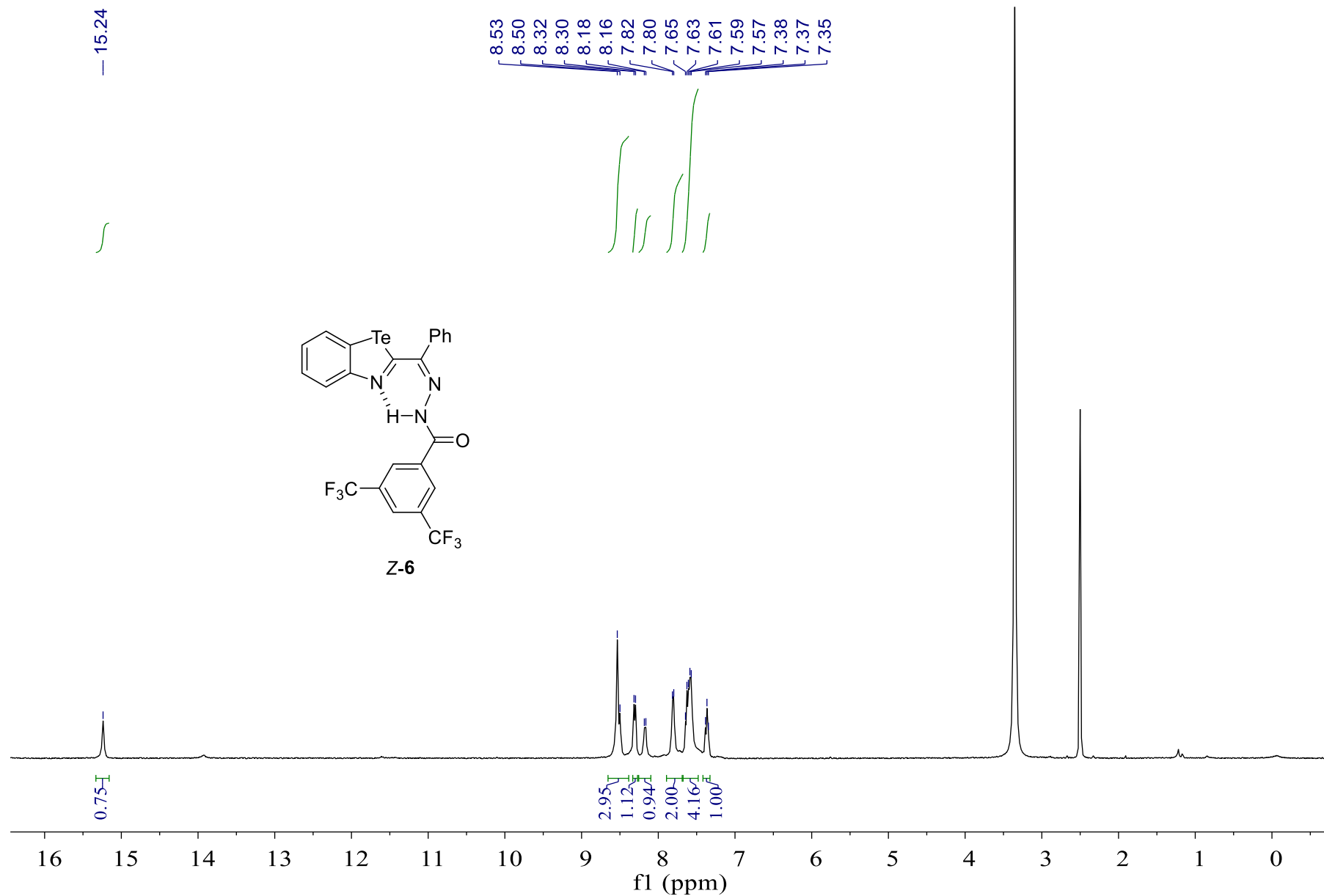


Figure S18. ^1H NMR spectrum (400 MHz, 25 °C) of **Z-6** in $\text{DMSO-}d_6$.

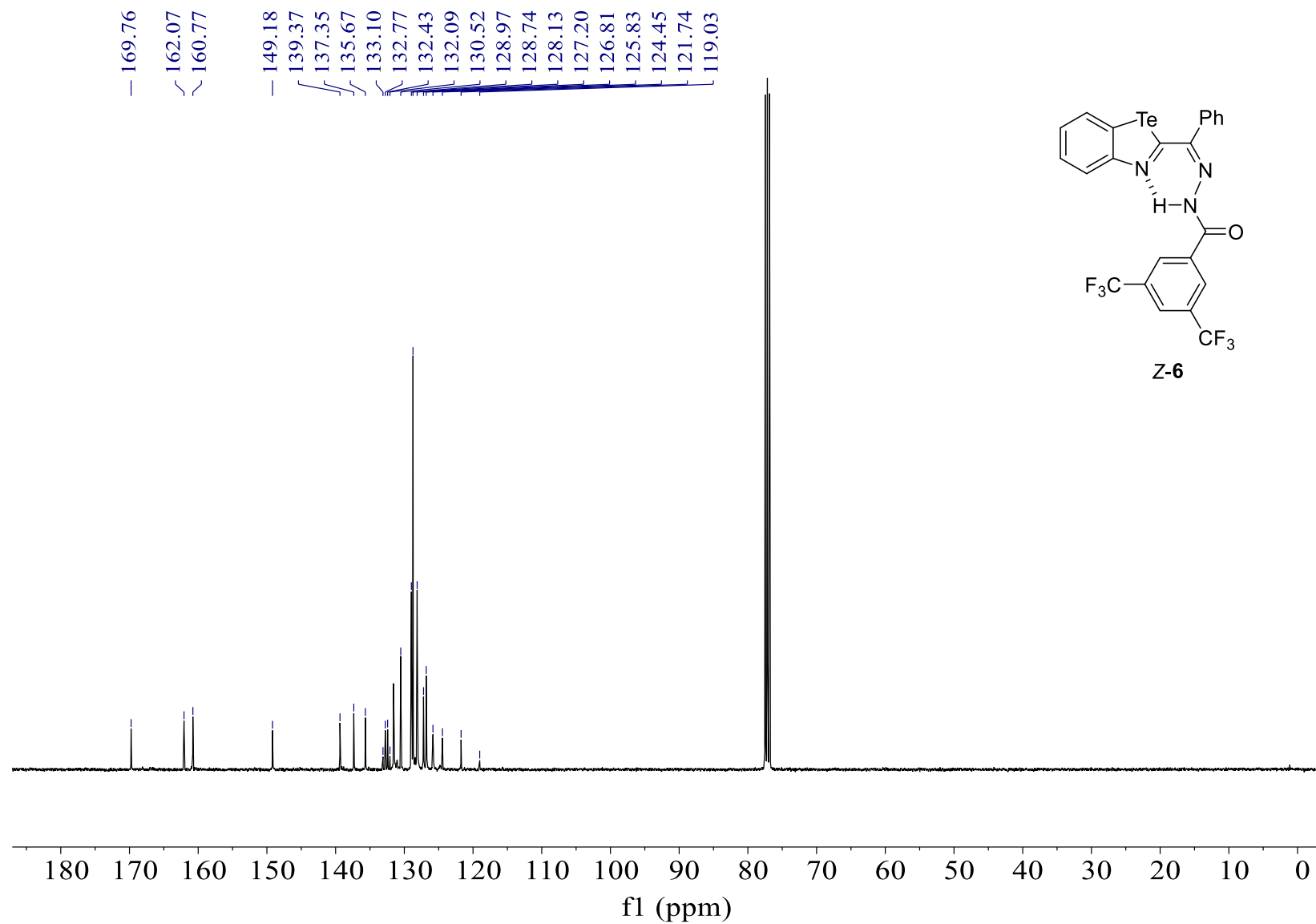


Figure S19. ¹³C NMR spectrum (101 MHz, 25 °C) of Z-6 in CDCl₃.

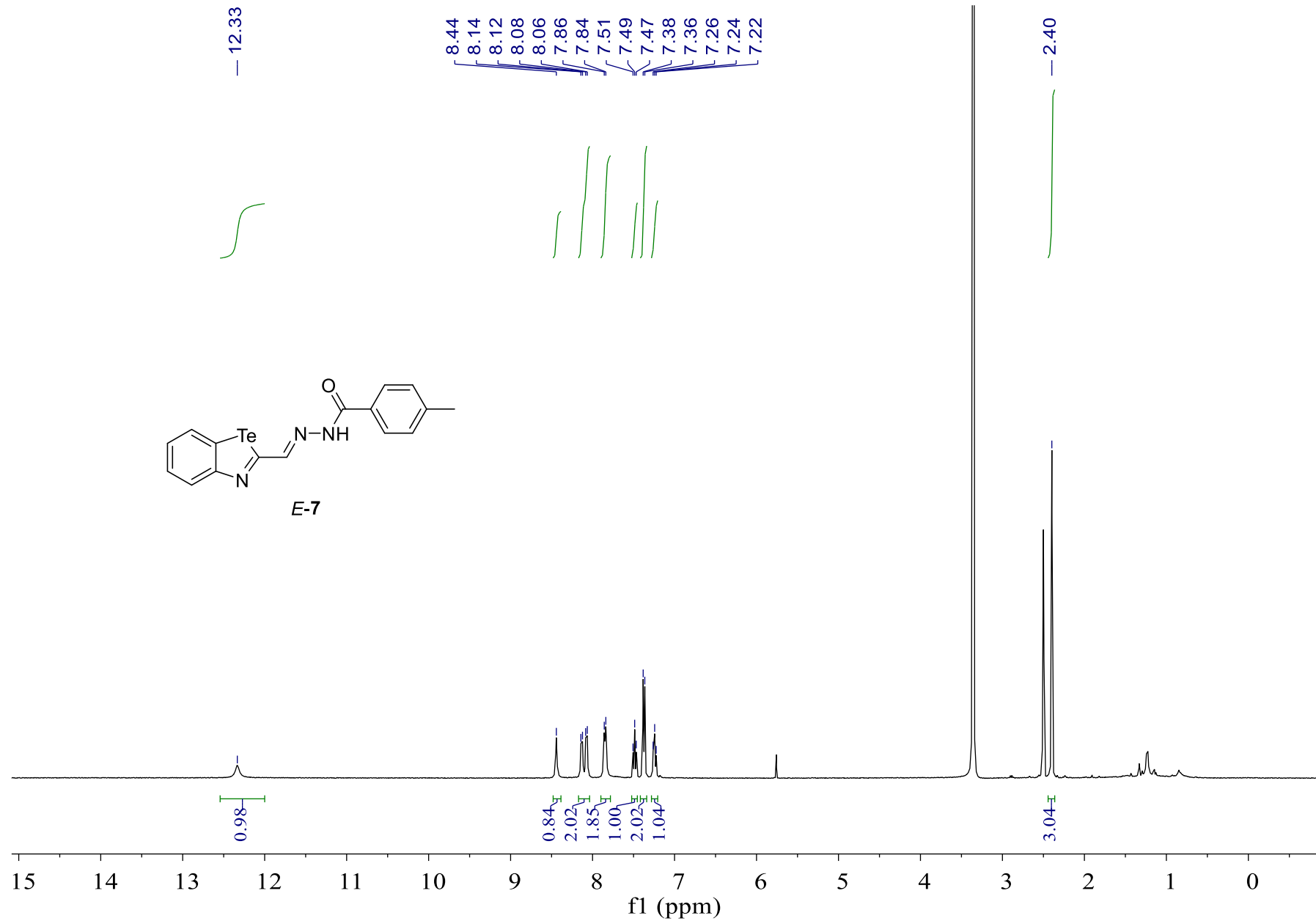


Figure S20. ^1H NMR spectrum (400 MHz, 25 °C) of *E-7* in $\text{DMSO-}d_6$.

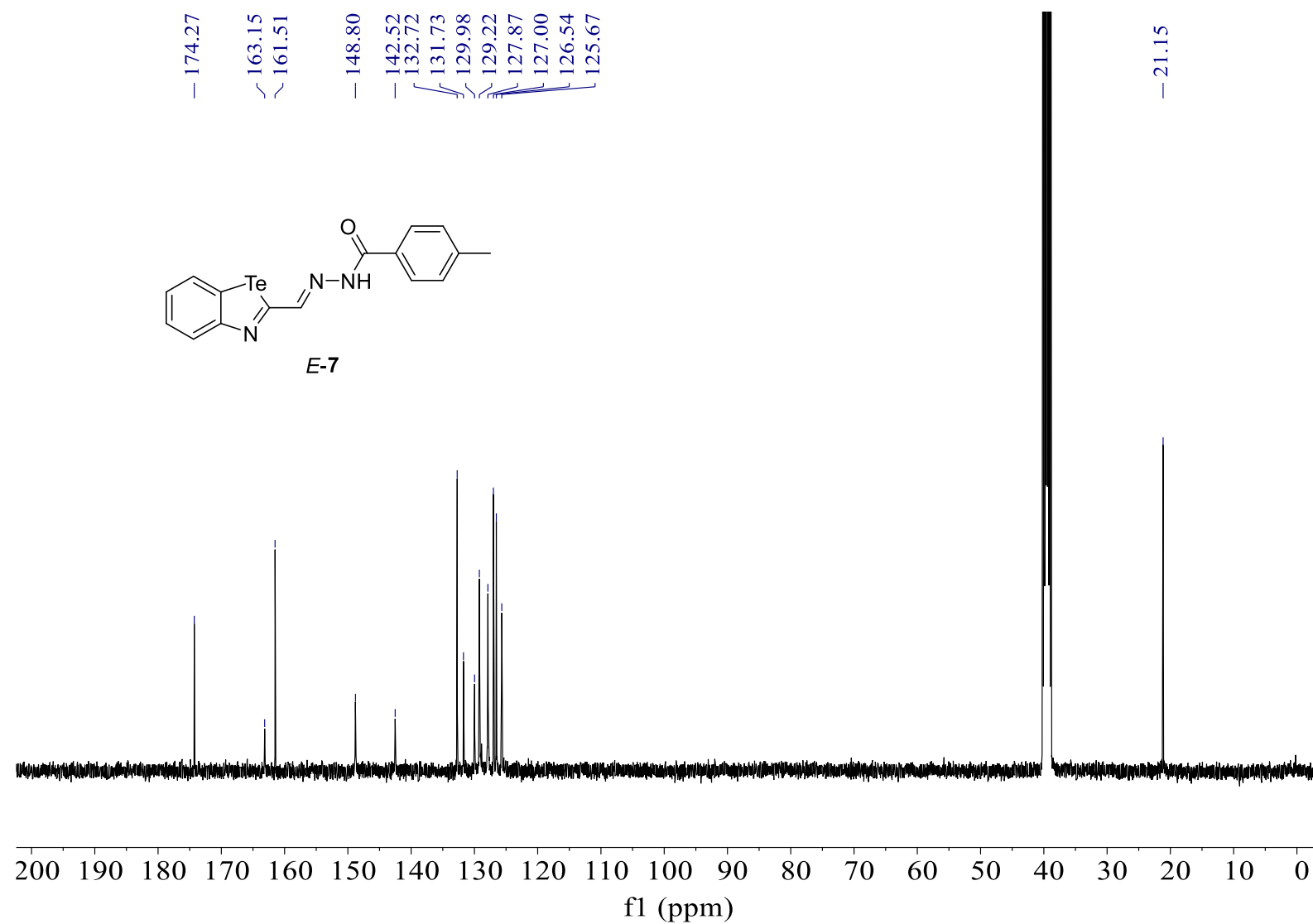


Figure S21. ^{13}C NMR spectrum (101 MHz, 25 °C) of *E-7* in $\text{DMSO-}d_6$.