

Supporting Information belonging to Manuscript

Benzannulated N-heterocyclic germylenes and stannylenes with sterically demanding N,N' -substituents

Sergei Krupski, Rainer Pöttgen, Inga Schellenberg and F. Ekkehardt Hahn*

*Institut für Anorganische und Analytische Chemie, Westfälische Wilhelms-Universität
Münster, Corrensstraße 30, D-48149 Münster, Germany*

NMR spectra of germylenes 2a–d and stannylenes 3a, 3c and 3d.

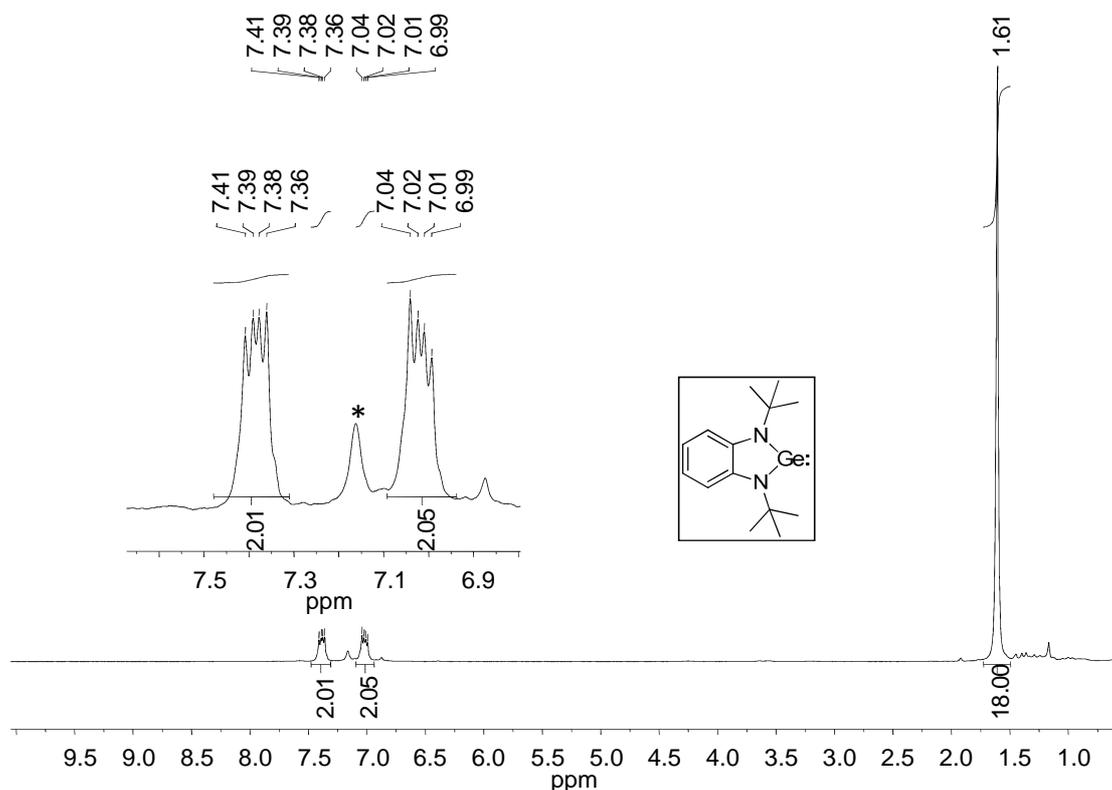


Figure S1. ^1H NMR spectrum of germylene **2a** in C_6D_6 .

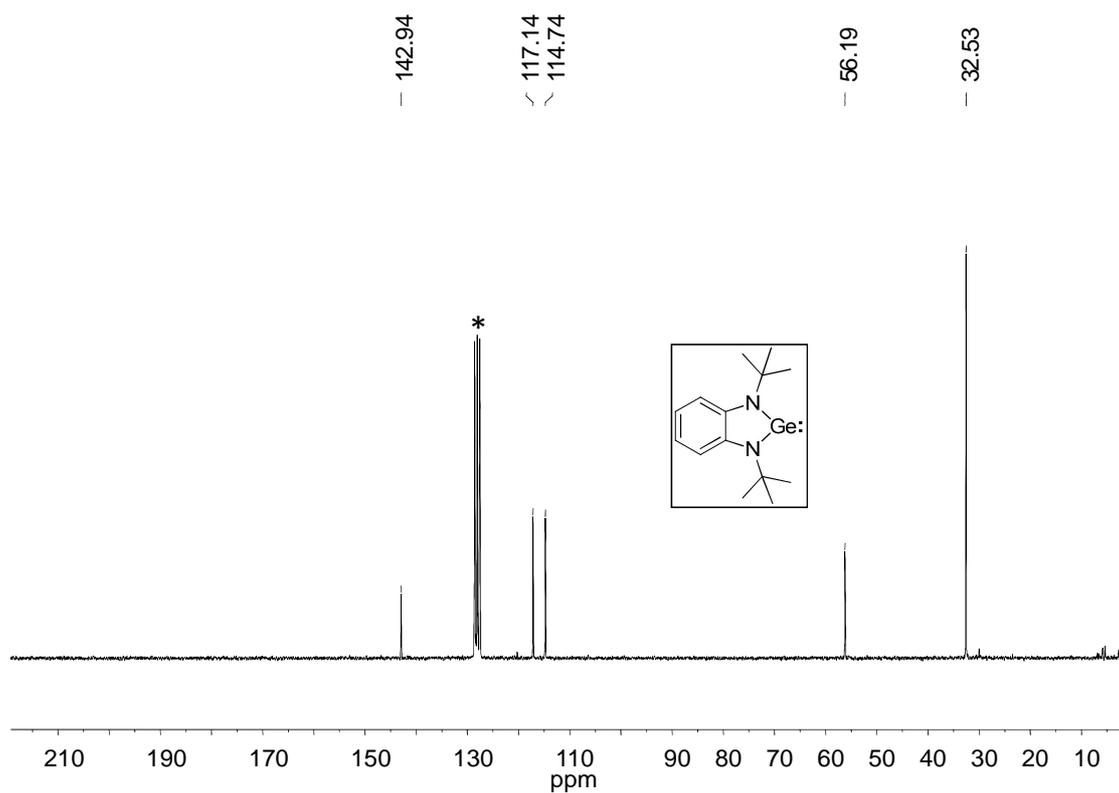


Figure S2. ^{13}C NMR spectrum of germylene **2a** in C_6D_6 .

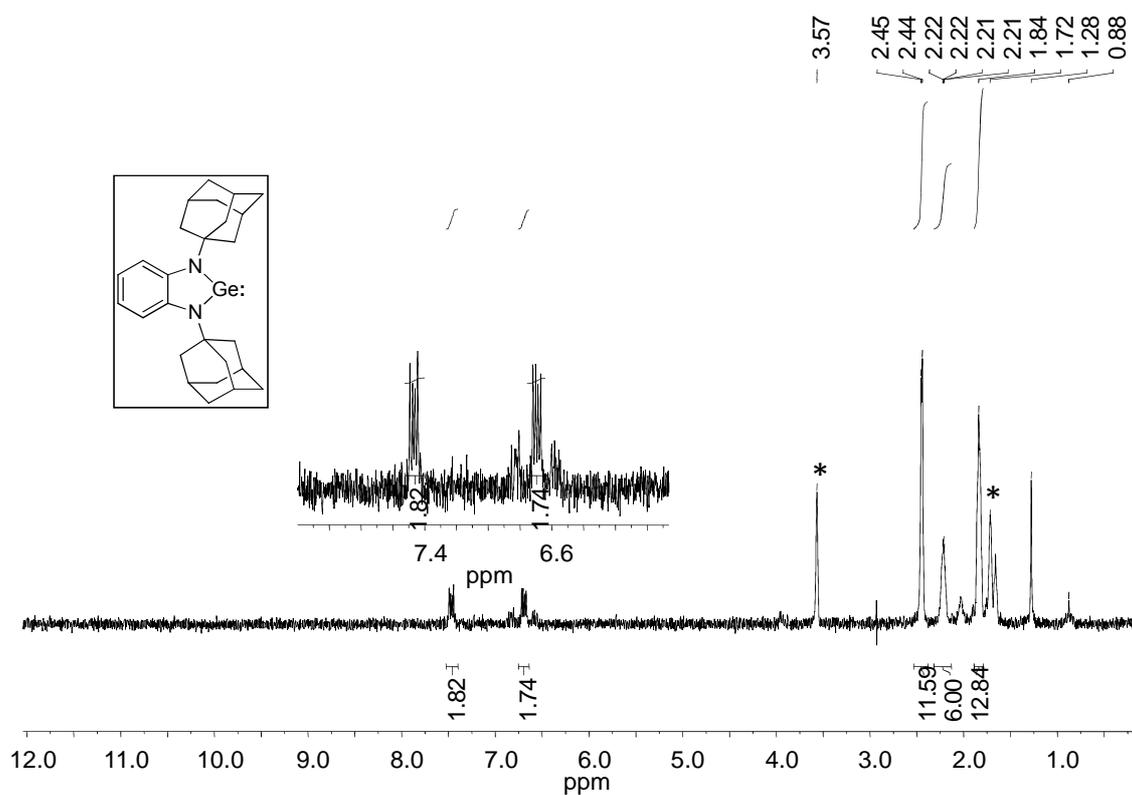


Figure S3. ^1H NMR spectrum of germylene **2b** in $\text{THF-}d_8$.

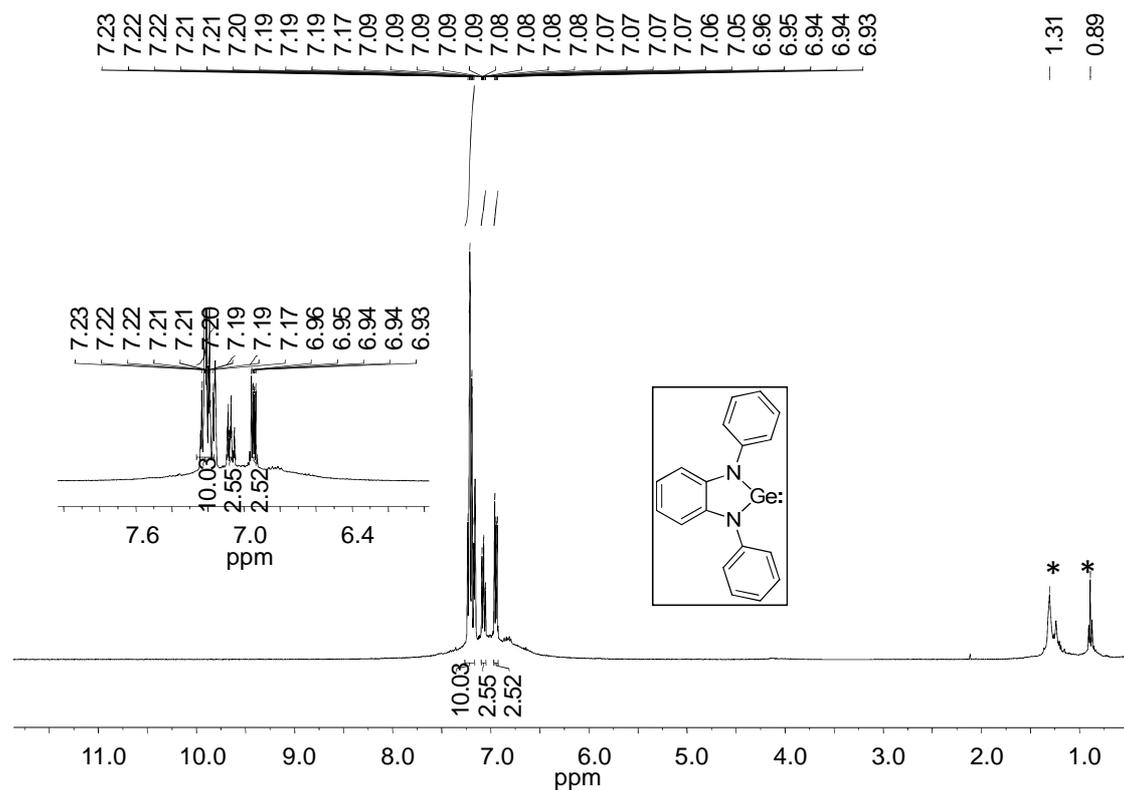


Figure S4. ¹H NMR spectrum of germylene **2c** in C₆D₆.

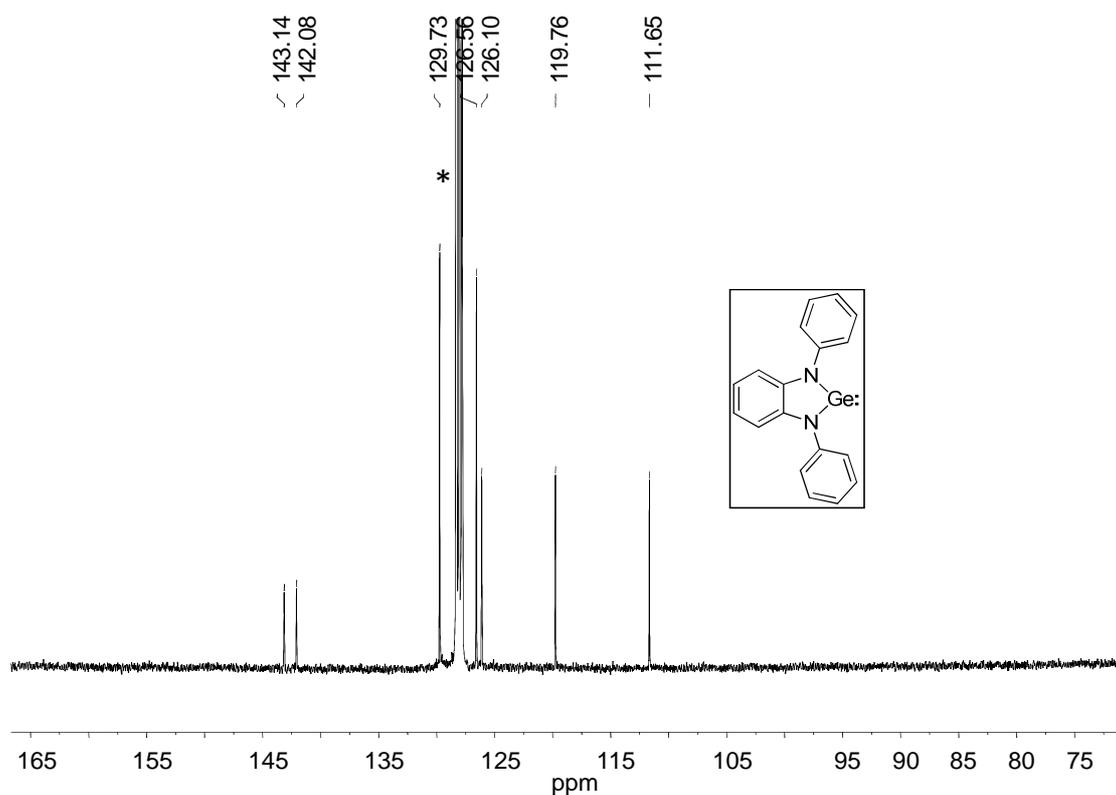


Figure S5. ¹³C NMR spectrum of germylene **2c** in C₆D₆.

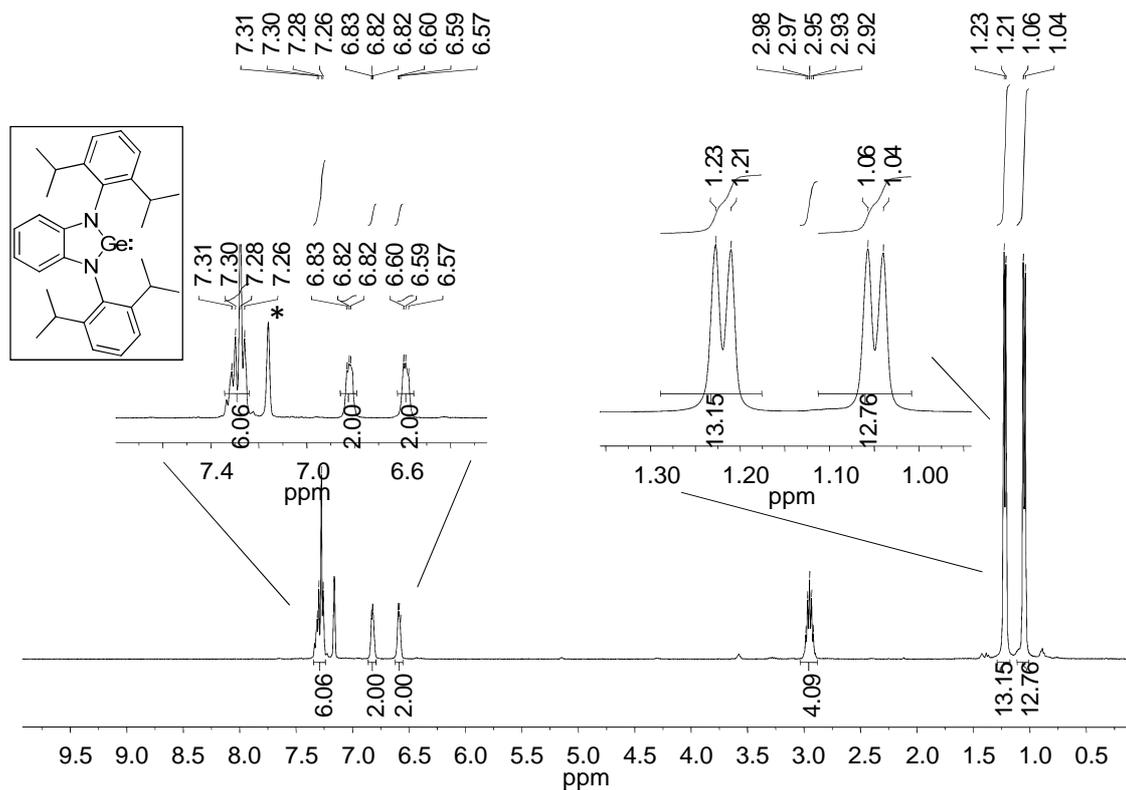


Figure S6. ^1H NMR spectrum of germylene **2d** in C_6D_6 .

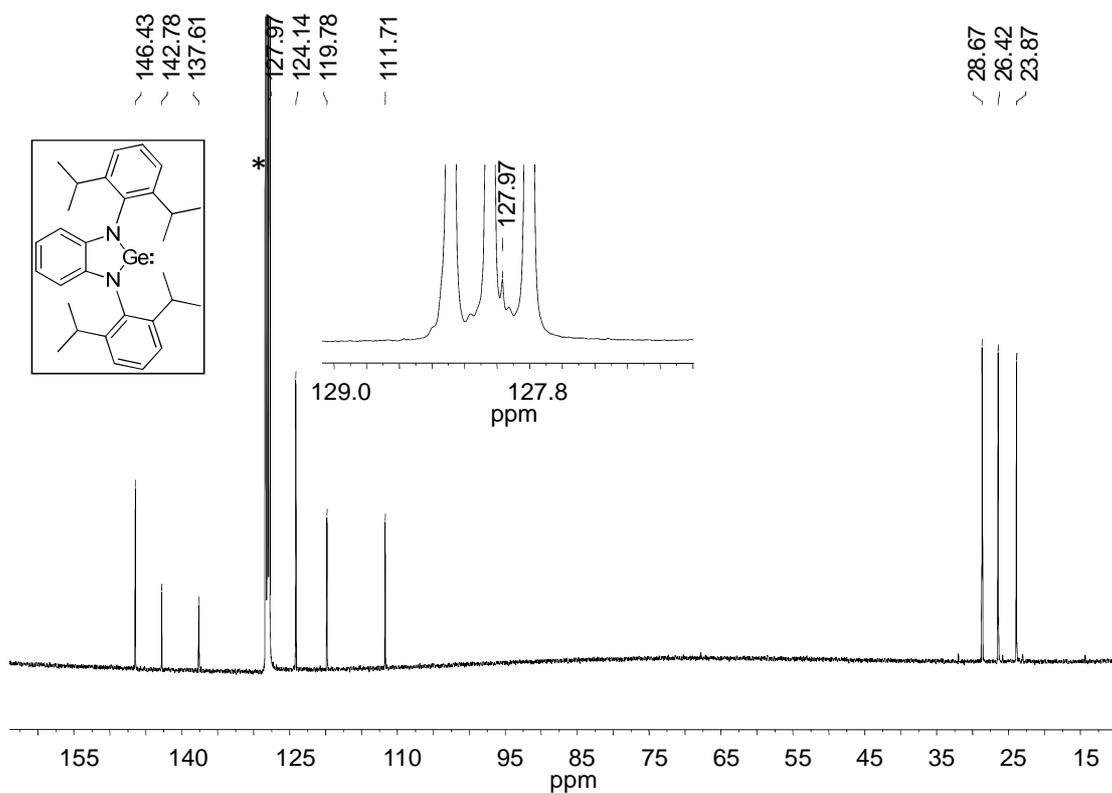


Figure S7. ^{13}C NMR spectrum of germylene **2d** in C_6D_6 .

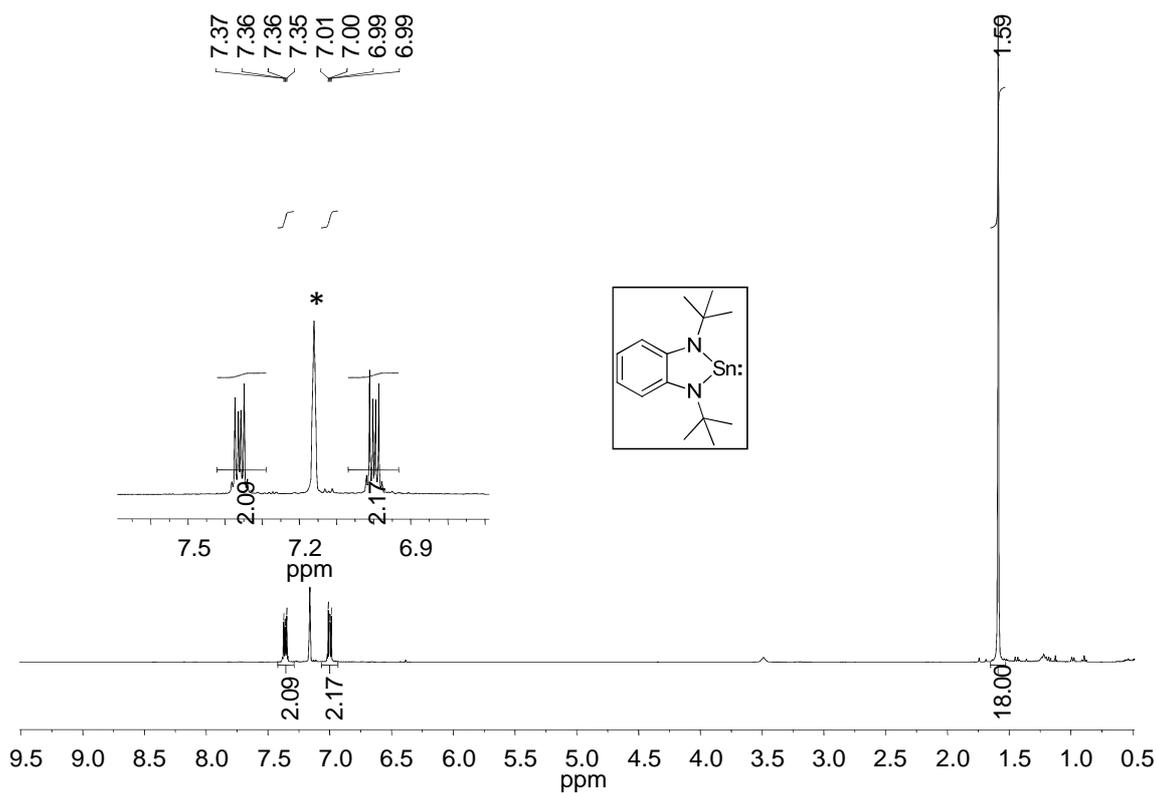


Figure S8. ¹H NMR spectrum of stannylene **3a** in C₆D₆.

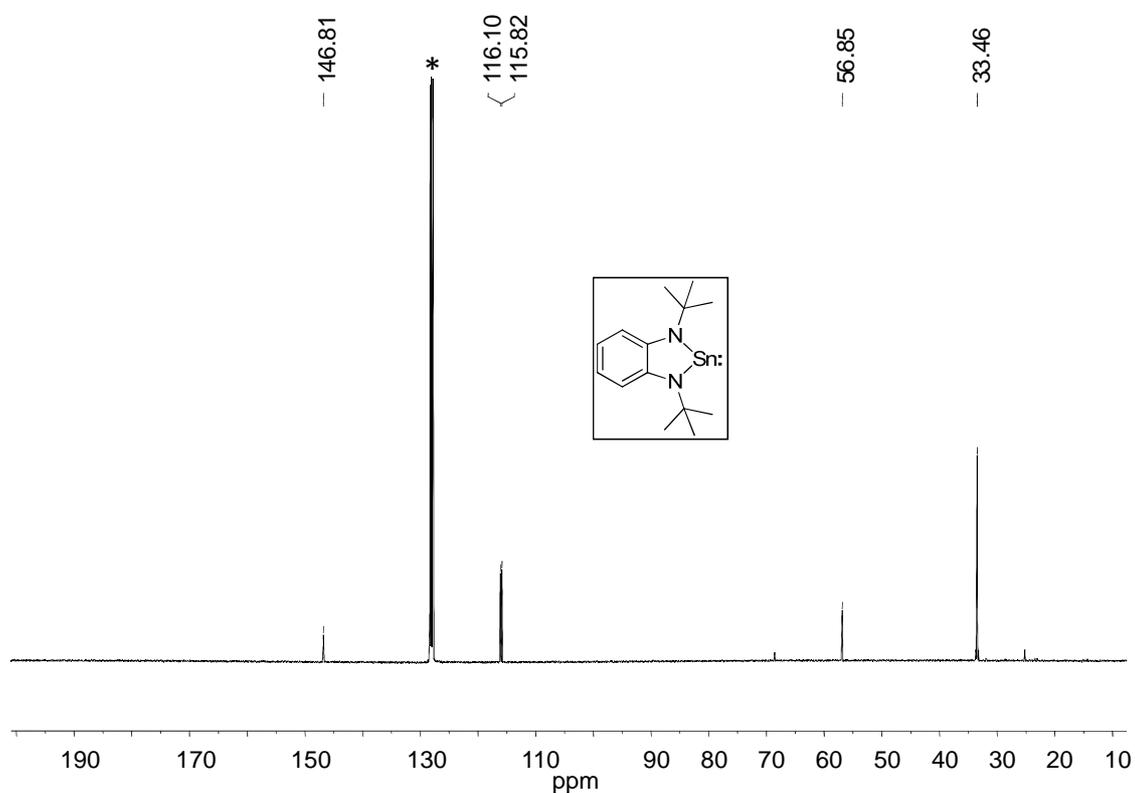


Figure S9. ¹³C NMR spectrum of stannylene **3a** in C₆D₆.

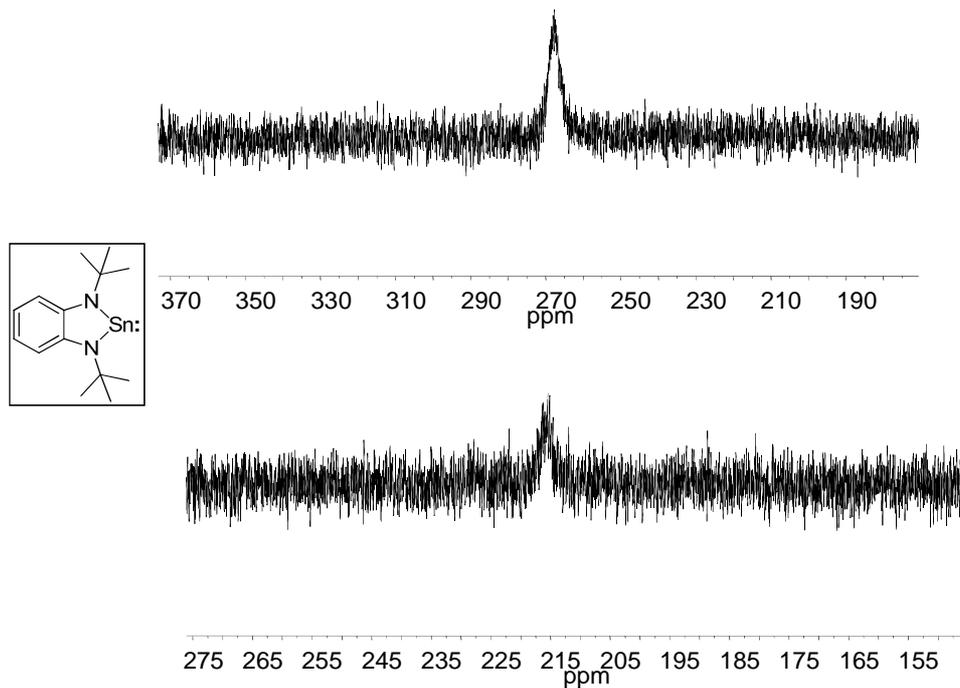


Figure S10. ^{119}Sn NMR spectra of stannylene **3a** in C_6D_6 (top) and in $\text{THF-}d_8$ (bottom).

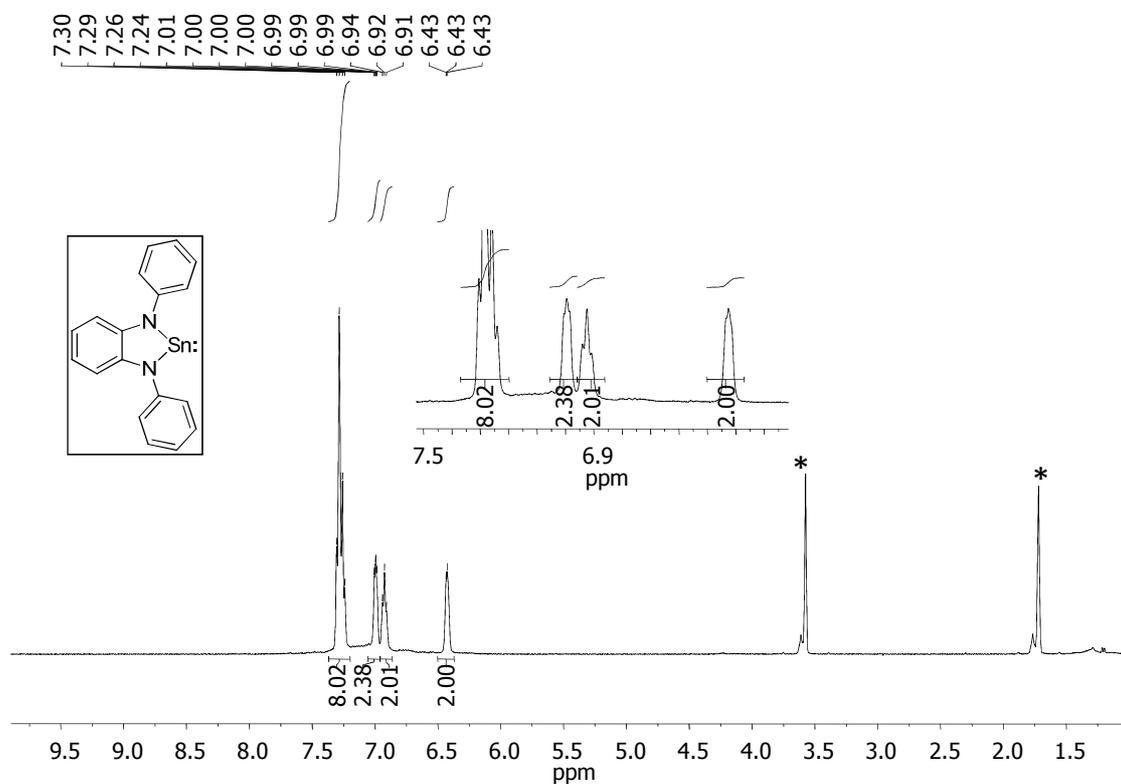


Figure S11. ^1H NMR spectrum of stannylene **3c** in $\text{THF-}d_8$.

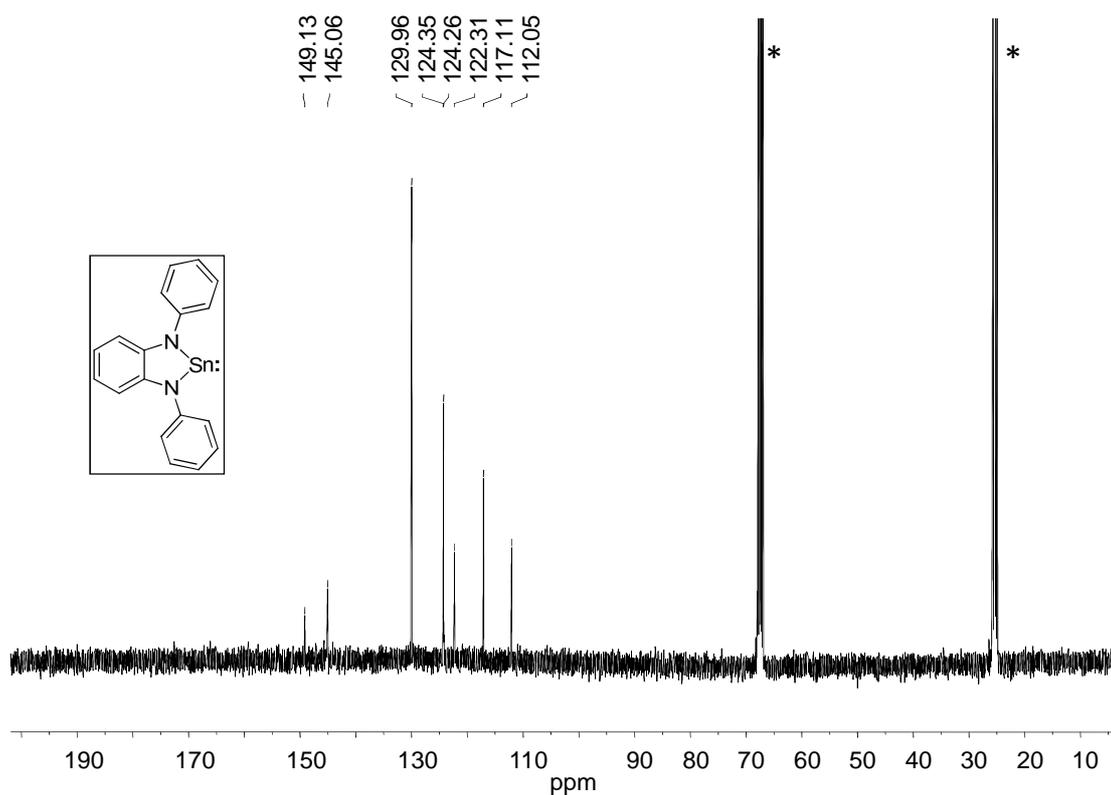


Figure S12. ^{13}C NMR spectrum of stannylene **3c** in $\text{THF-}d_8$.

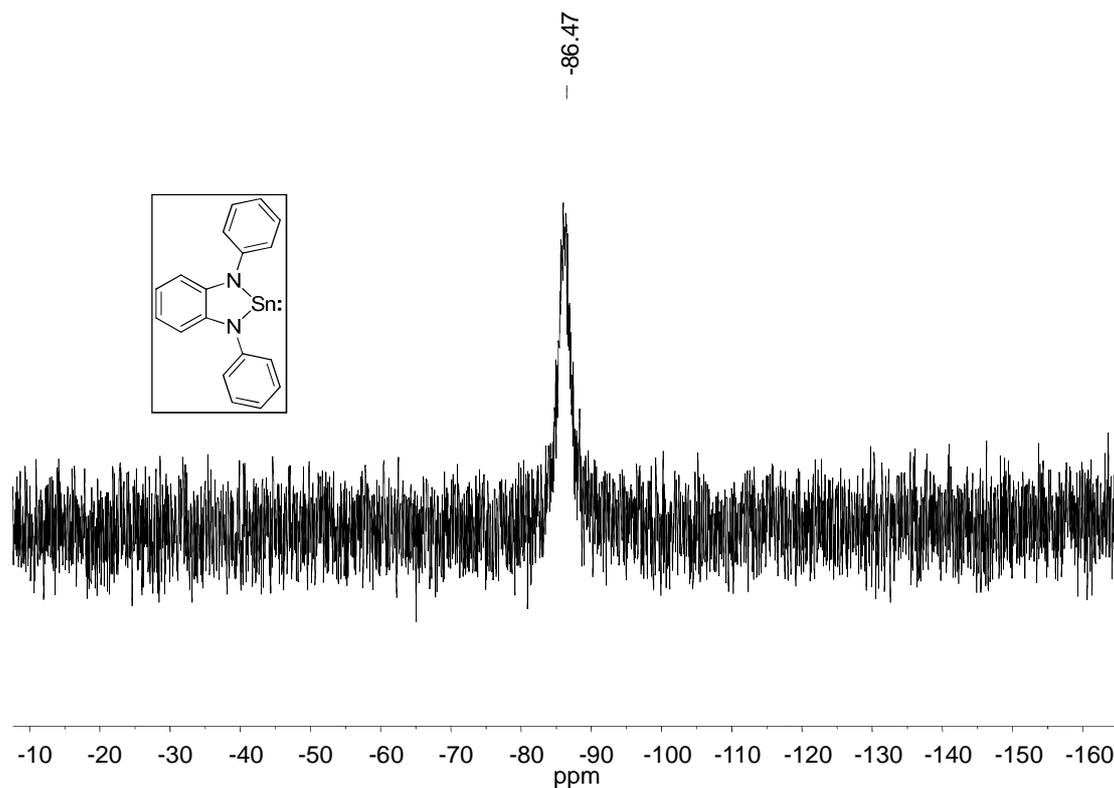


Figure S13. ^{119}Sn NMR spectrum of stannylene **3c** in $\text{THF-}d_8$.

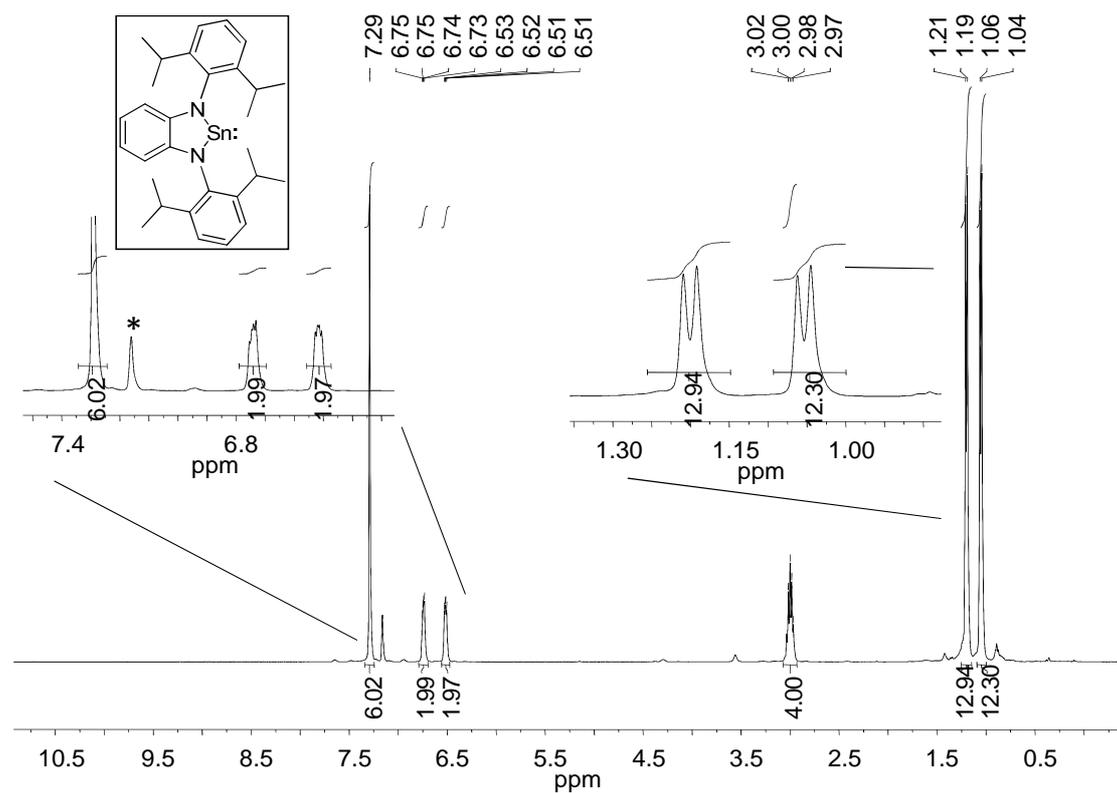


Figure S14. ^1H NMR spectrum of stannylene **3d** in C_6D_6 .

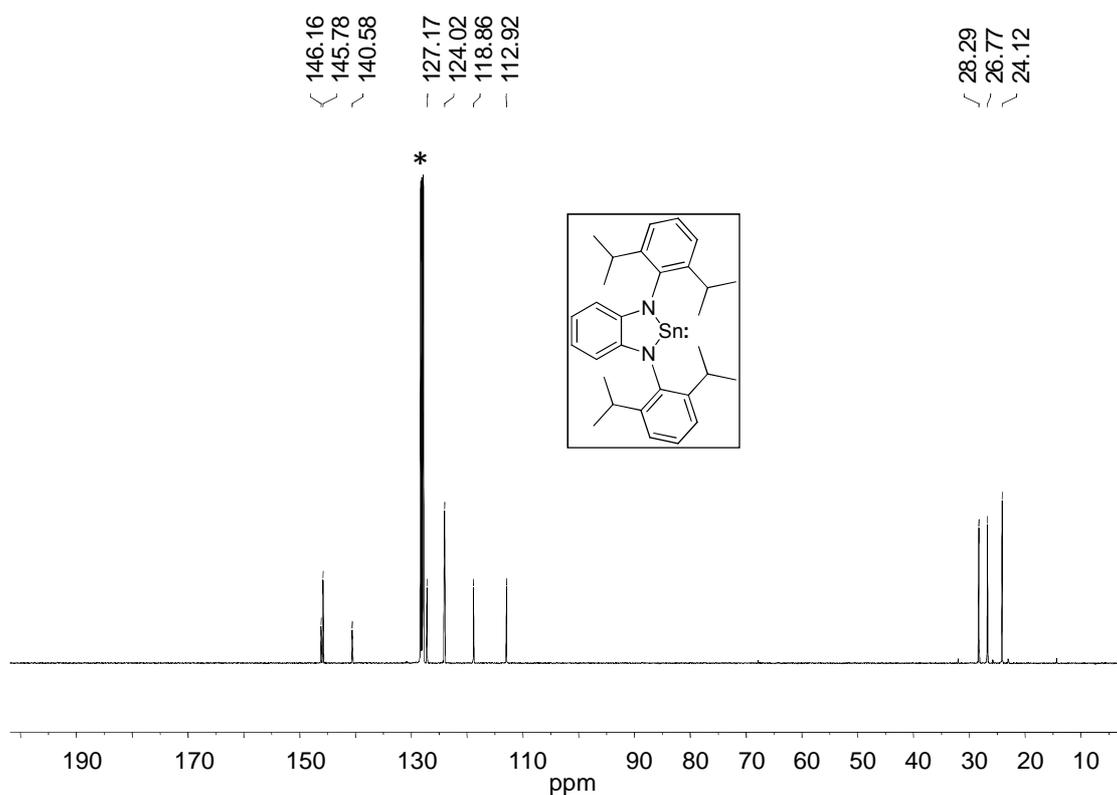


Figure S15. ^{13}C NMR spectrum of stannylene **3d** in C_6D_6 .

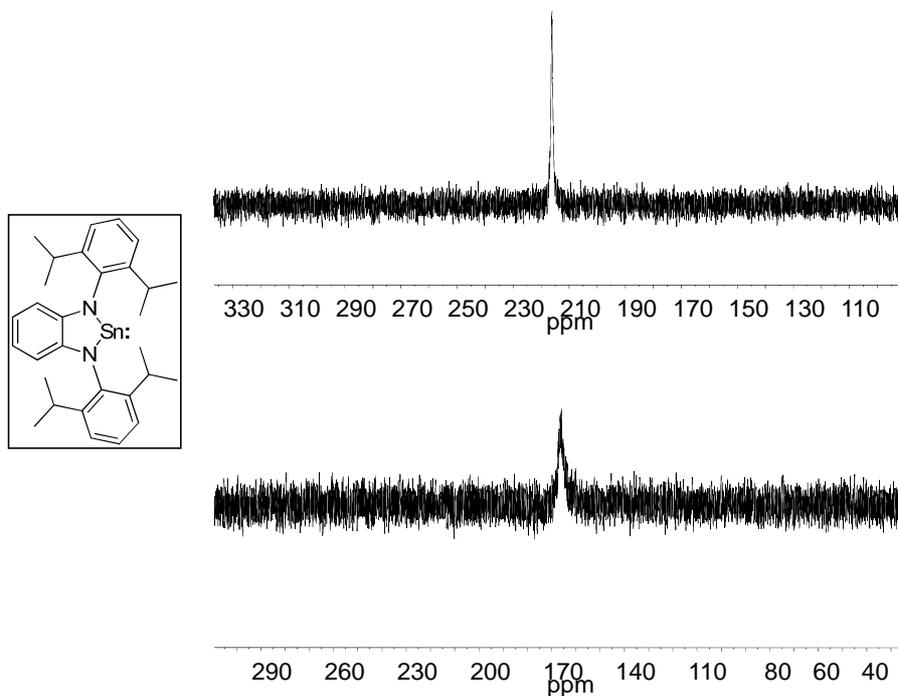


Figure S16. ^{119}Sn NMR spectra of stannylene **3d** in C_6D_6 (top) and in THF-d_8 (bottom).

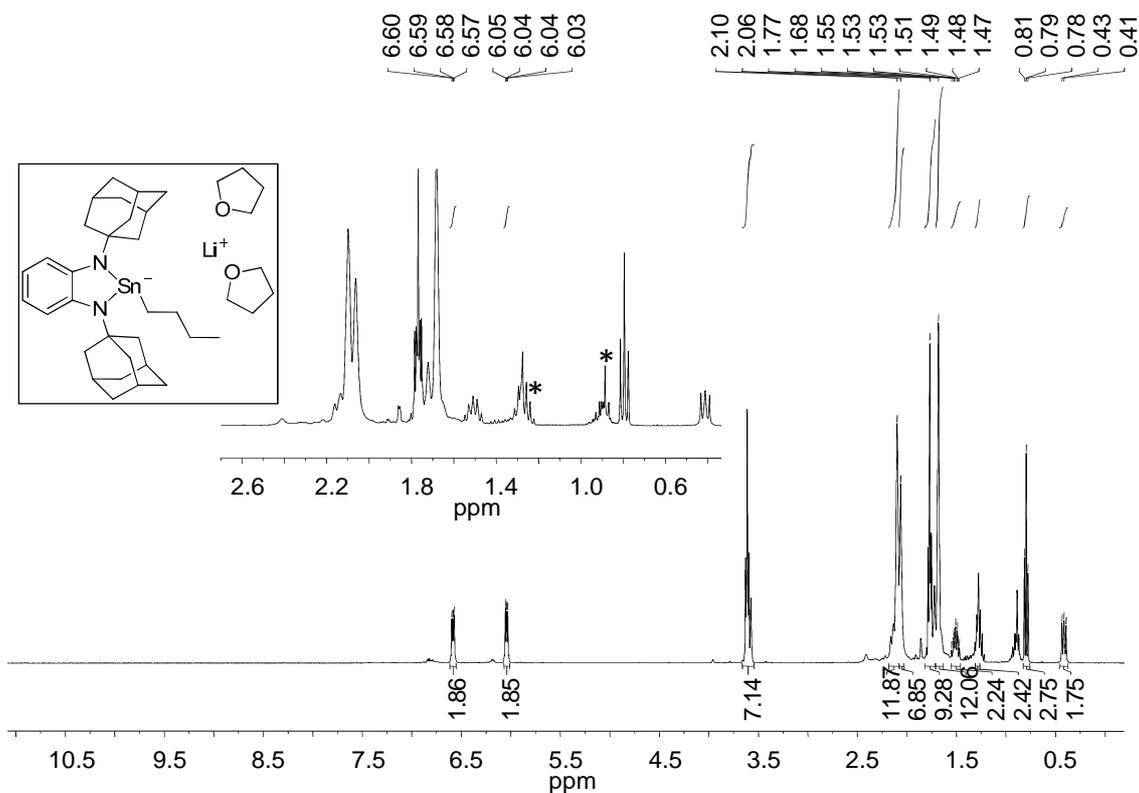


Figure S17. ^1H NMR spectrum of stannylene **Li[4]** in THF-d_8 .

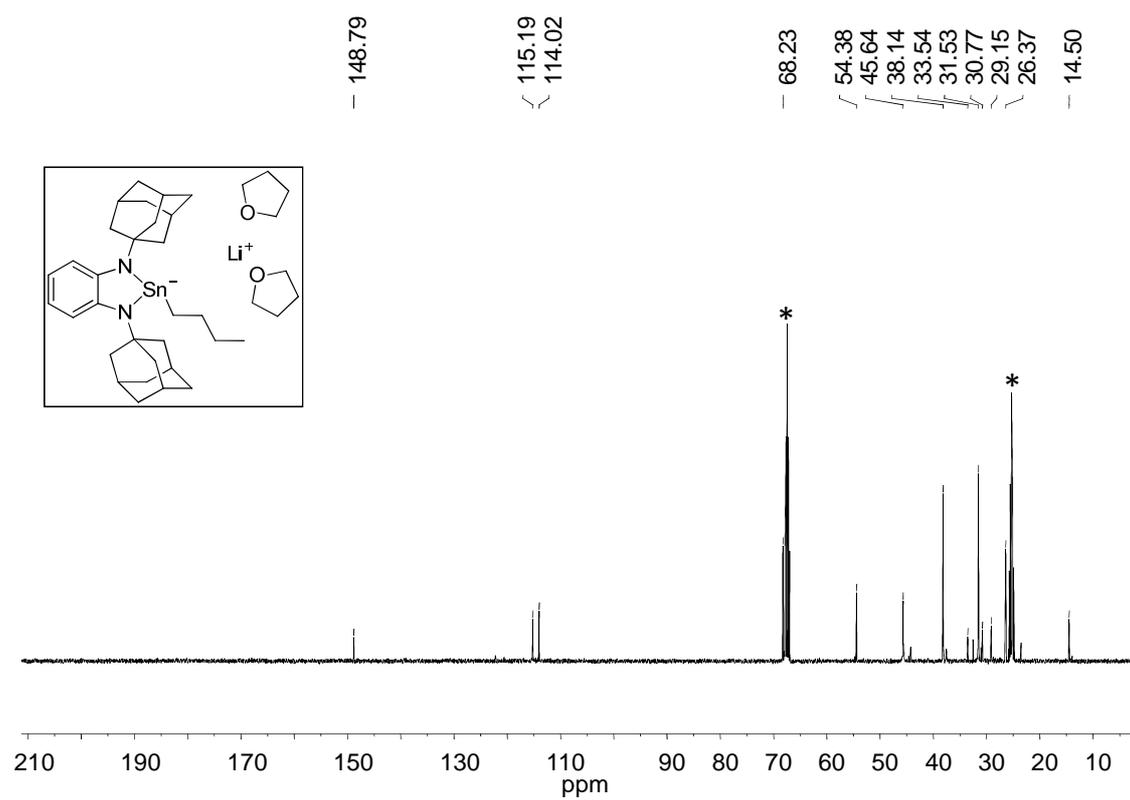


Figure S18. ^{13}C NMR spectrum of stannyleneat Li[4] in $\text{THF-}d_8$.