

Synthesis, Structure and Cytotoxicity of Cyclic (Alkyl)(Amino) Carbene and Acyclic Carbene Complexes of Group 11 metals

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SUPPORTING INFORMATION

NMR spectra

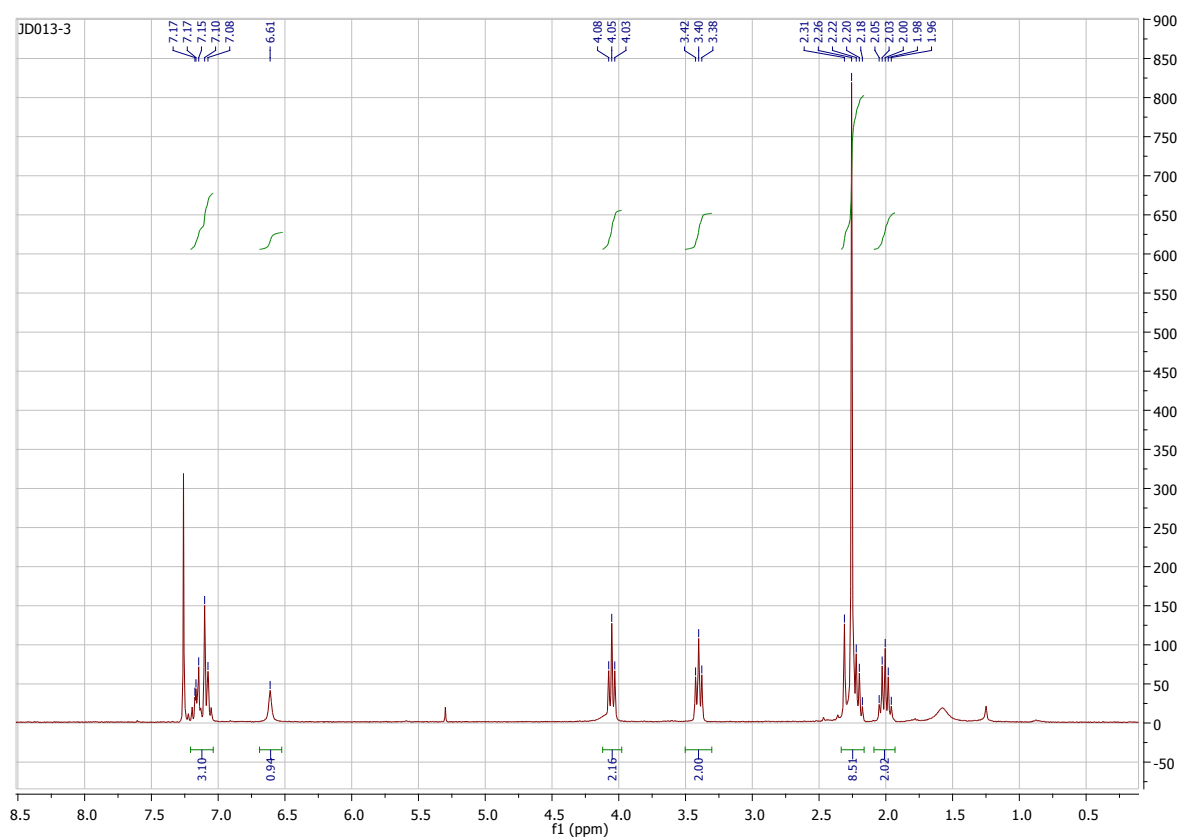


Figure S1: ¹H NMR spectrum of compound **9a** in CDCl₃

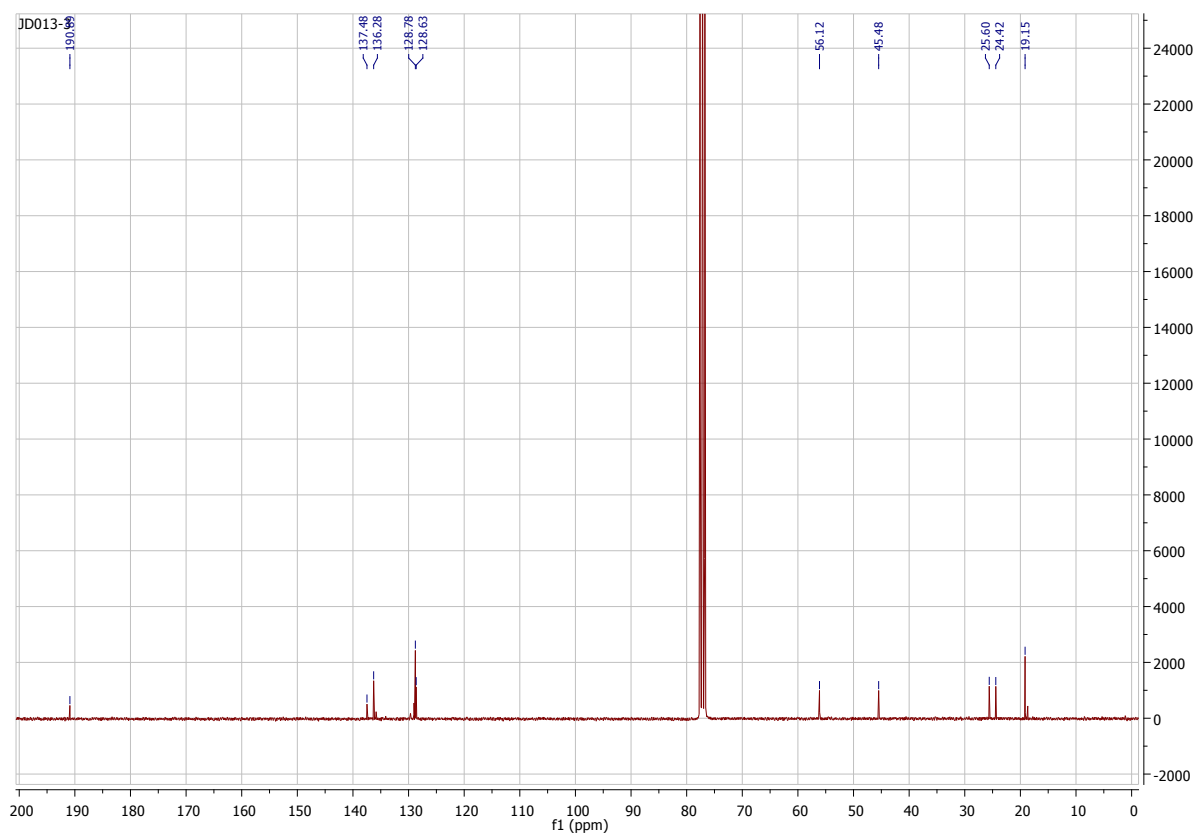


Figure S2: $\{^1\text{H}\}^{13}\text{C}$ NMR spectrum of compound **9a** in CDCl_3

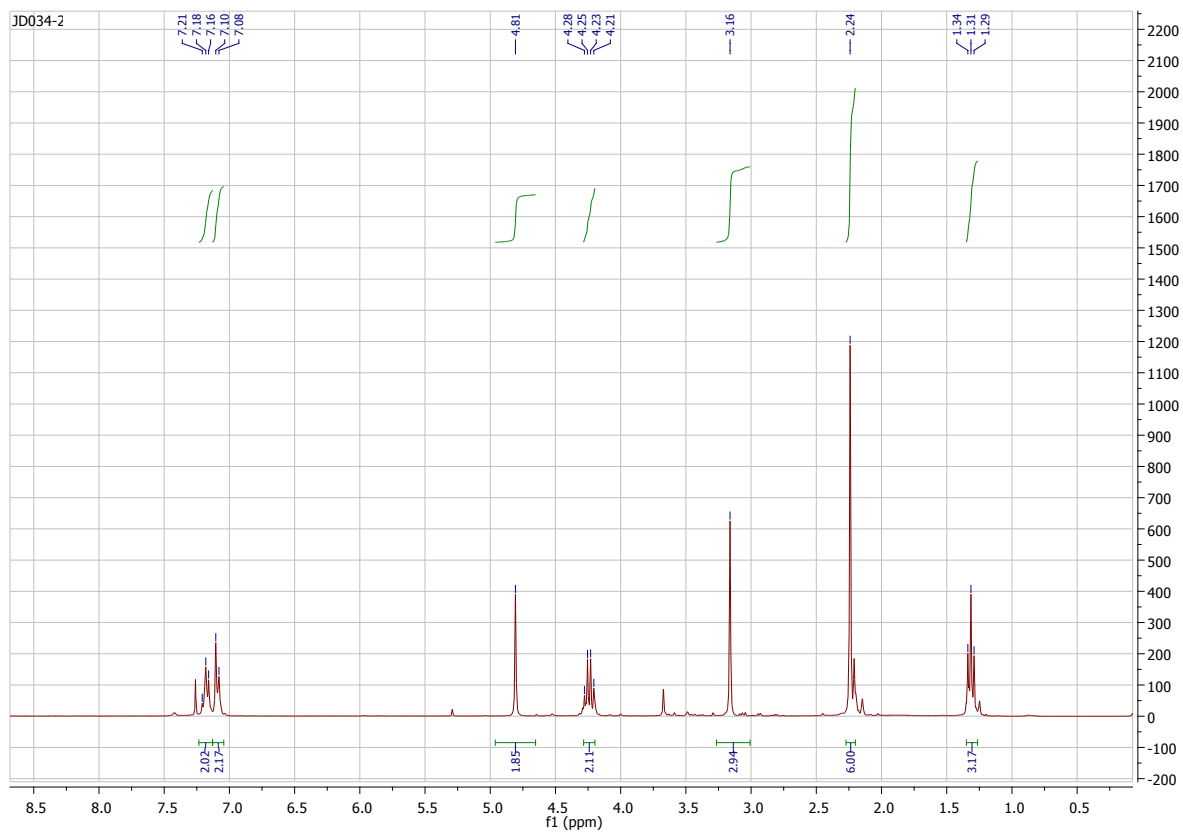


Figure S3: ^1H NMR spectrum of compound **10a** in CDCl_3

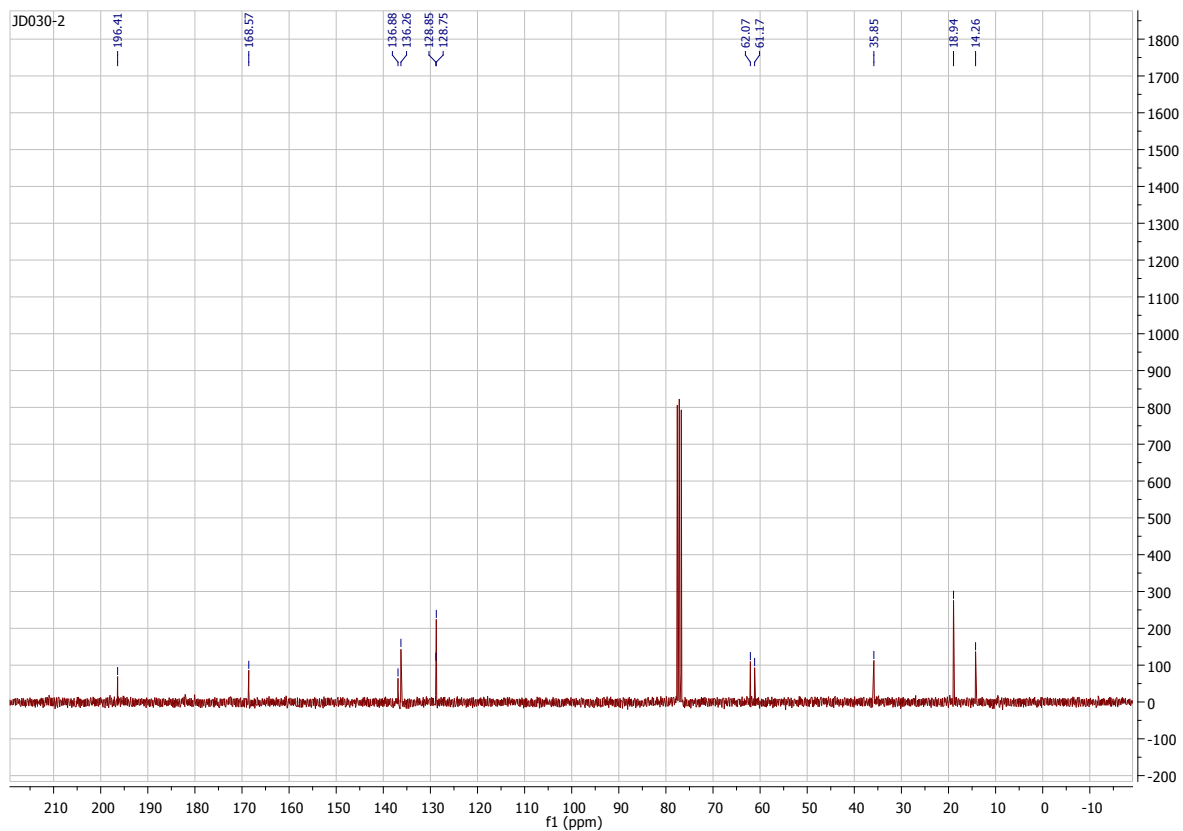


Figure S4: $\{^1\text{H}\}^{13}\text{C}$ NMR spectrum of compound **10a** in CDCl_3

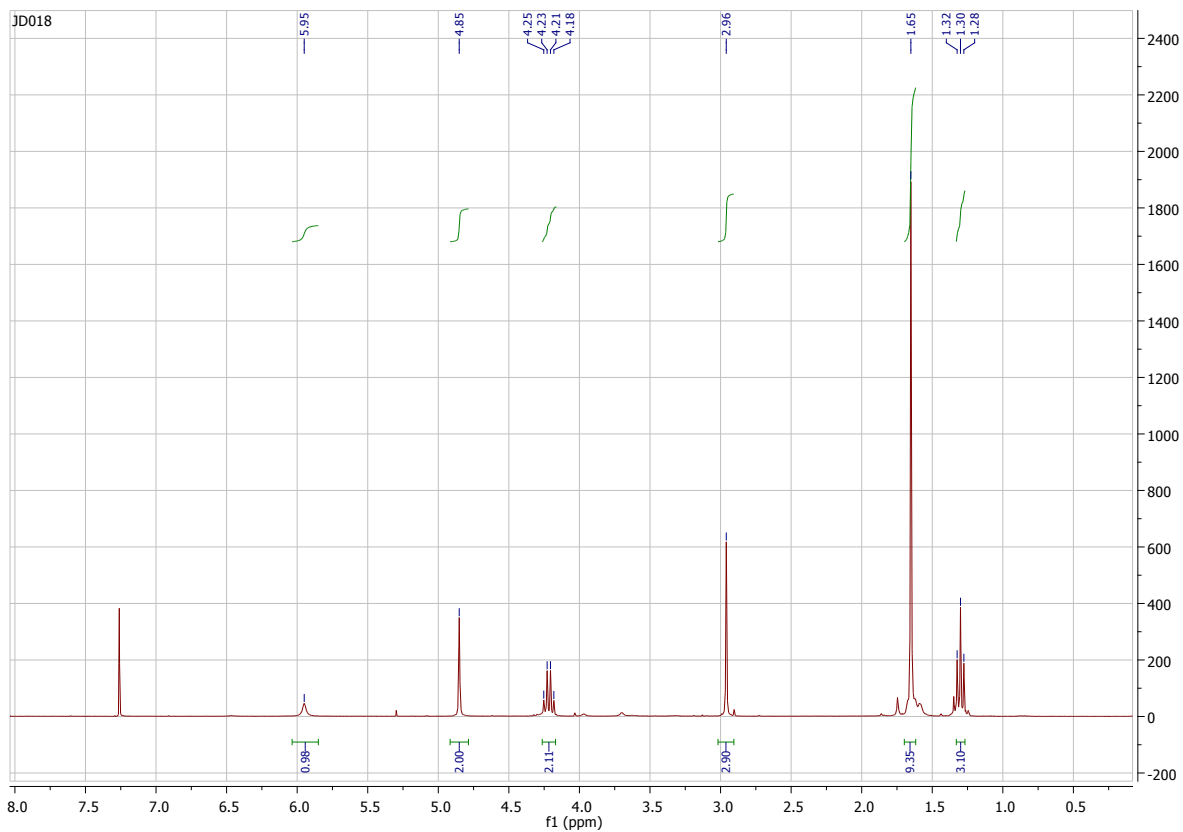


Figure S5: ^1H NMR spectrum of compound **10b** in CDCl_3

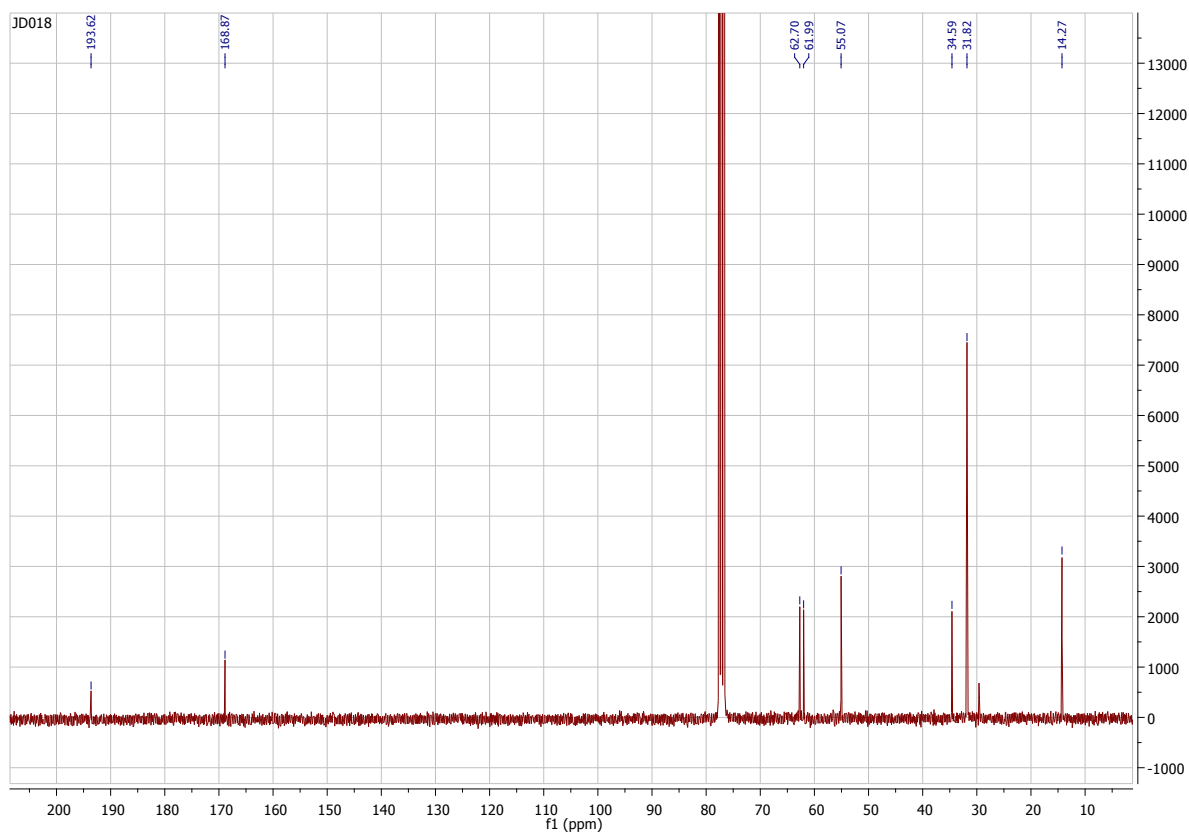


Figure S6: $\{^1\text{H}\}^{13}\text{C}$ NMR spectrum of compound **10b** in CDCl_3

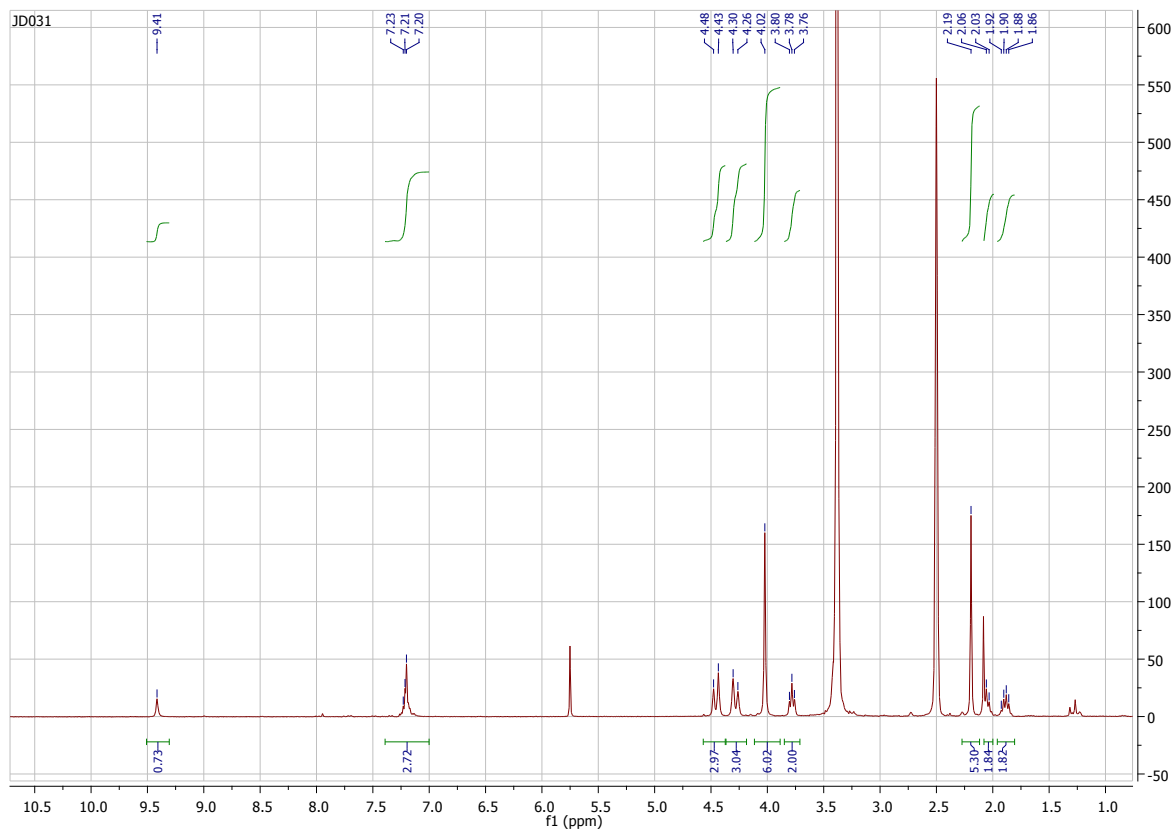


Figure S7: ^1H NMR spectrum of compound **11a** in $\text{DMSO}-d_6$

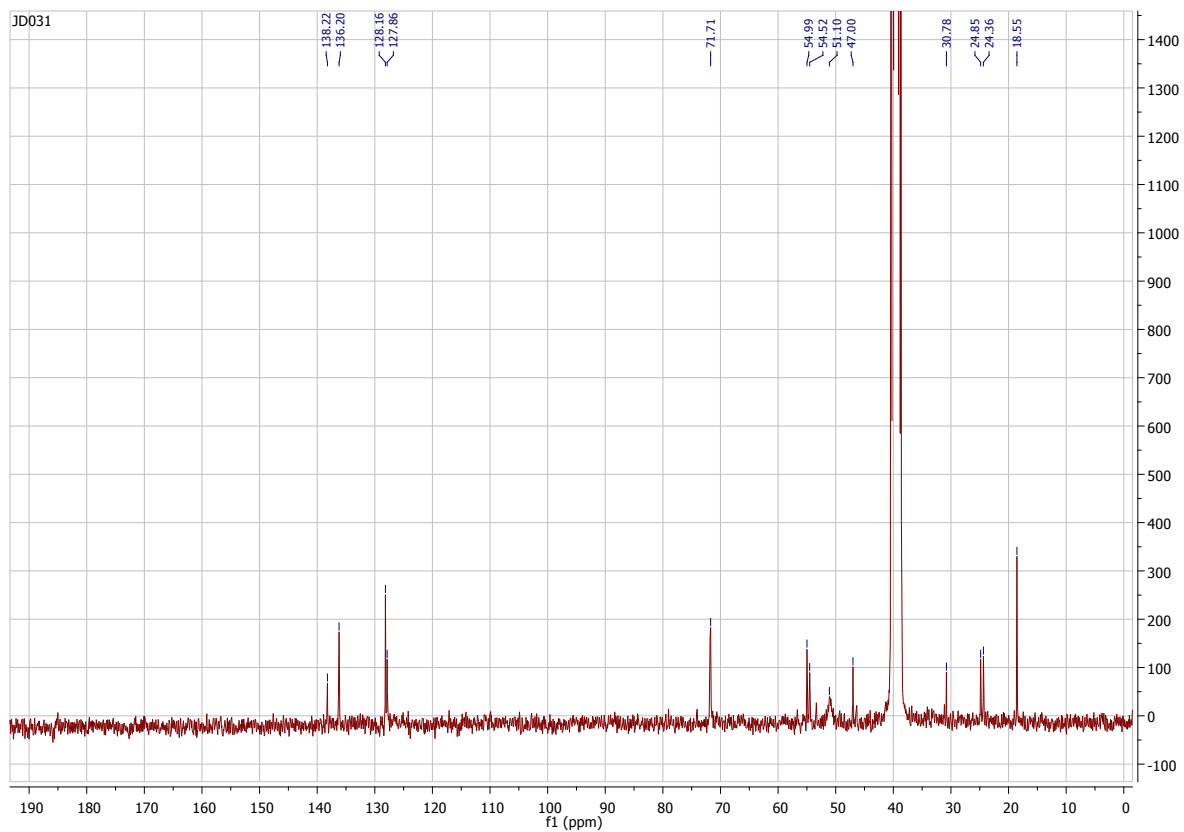


Figure S8: $\{^1\text{H}\}^{13}\text{C}$ NMR spectrum of compound **11a** in DMSO- d_6

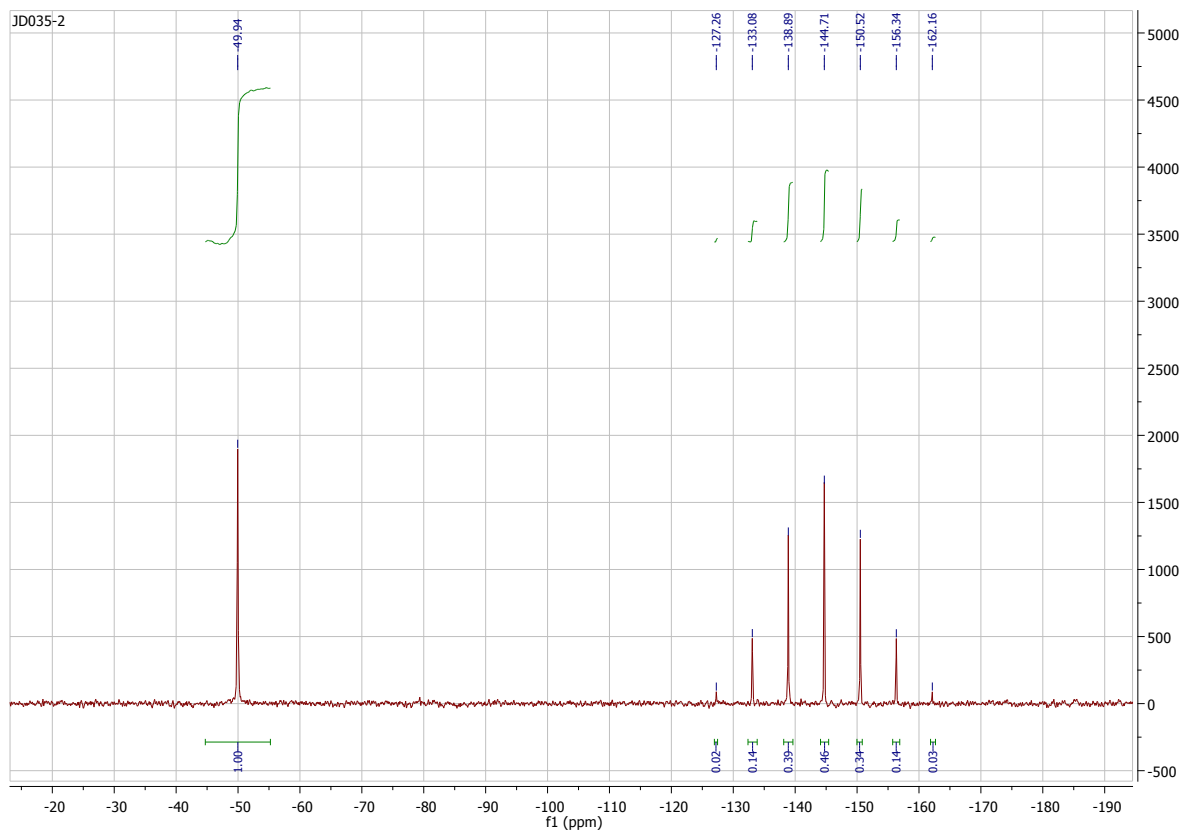


Figure S9: $\{^1\text{H}\}^{31}\text{P}$ NMR spectrum of compound **11a** in DMSO- d_6

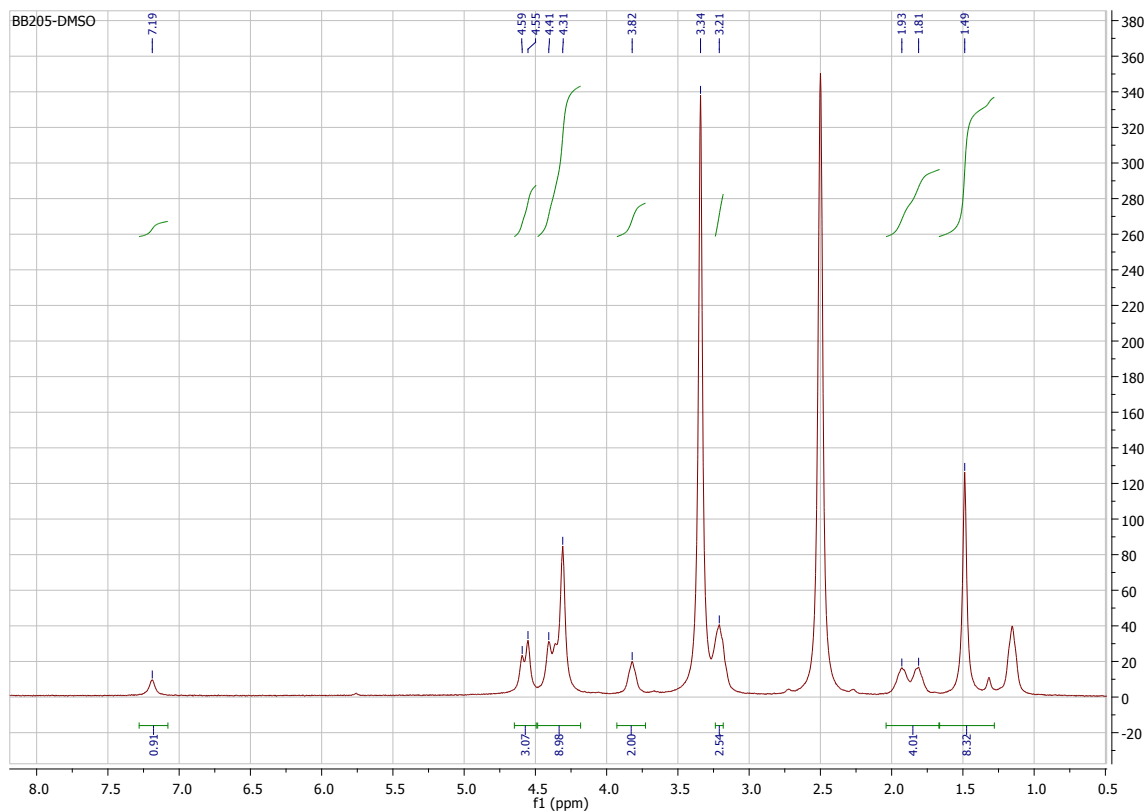


Figure S10: ^1H NMR spectrum of compound **11b** in DMSO-6d

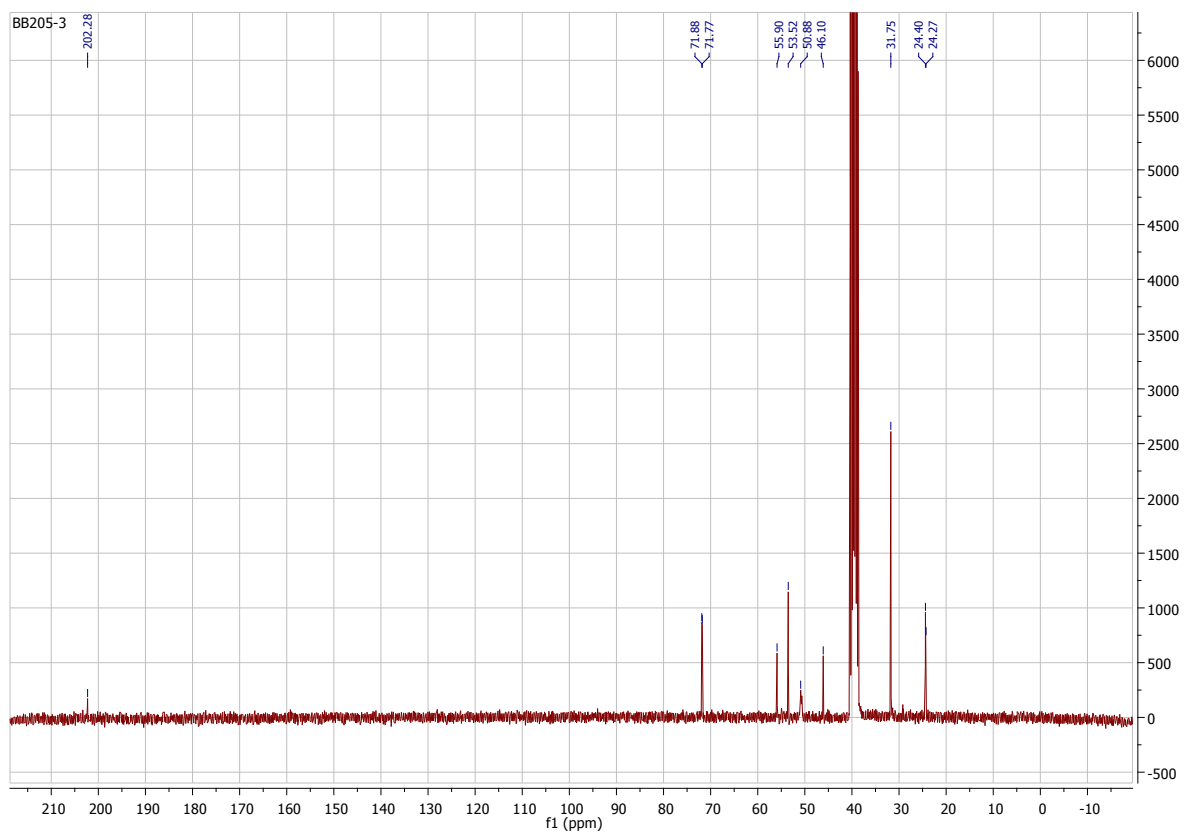


Figure S11: $\{^1\text{H}\}^{13}\text{C}$ NMR spectrum of compound **11b** in DMSO-6d

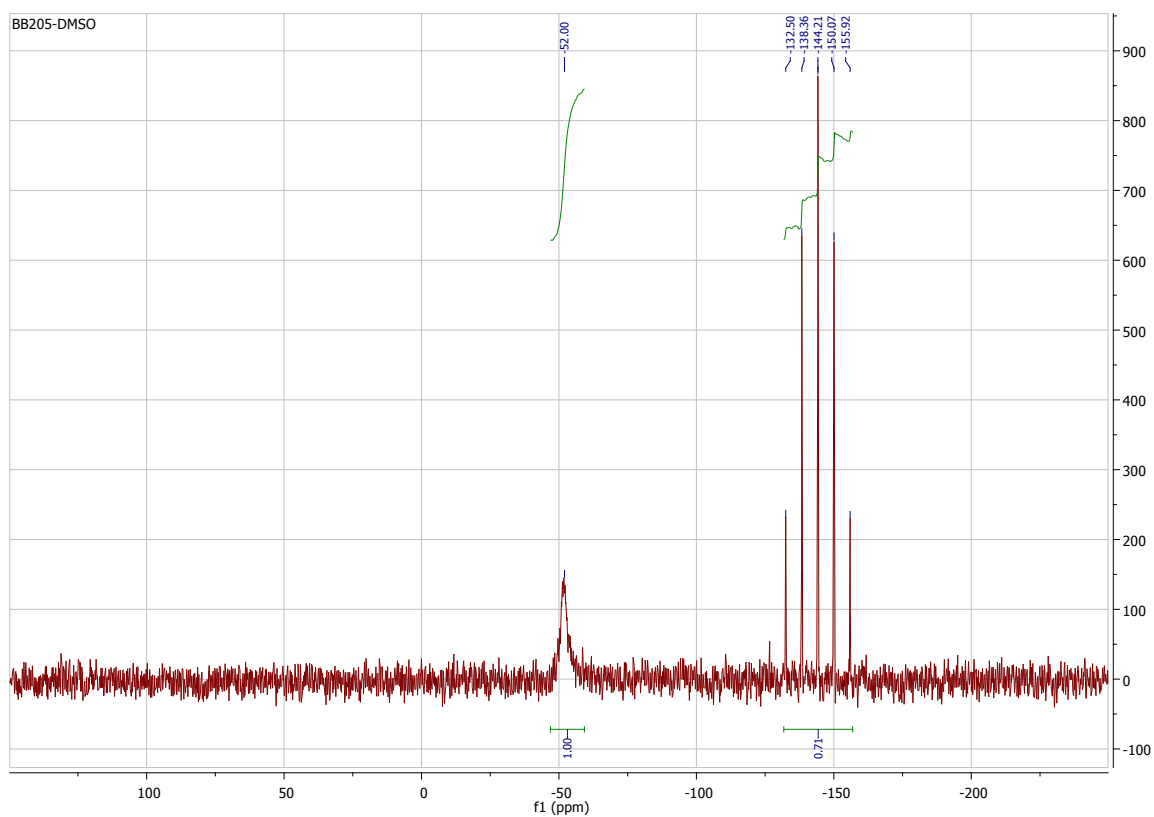


Figure S12: $\{^1\text{H}\}^{31}\text{P}$ NMR spectrum of compound **11b** in DMSO- d_6

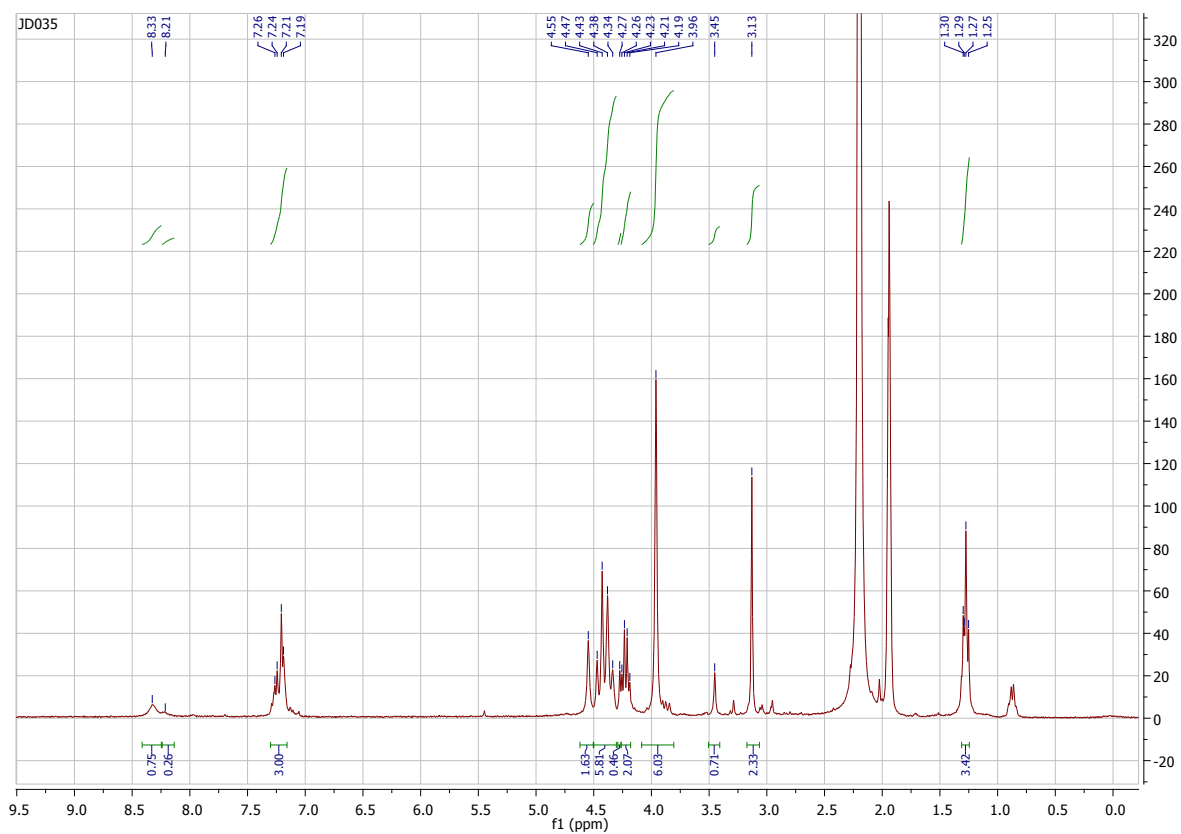


Figure S13: ^1H NMR spectrum of compound **12a** in CD_3CN

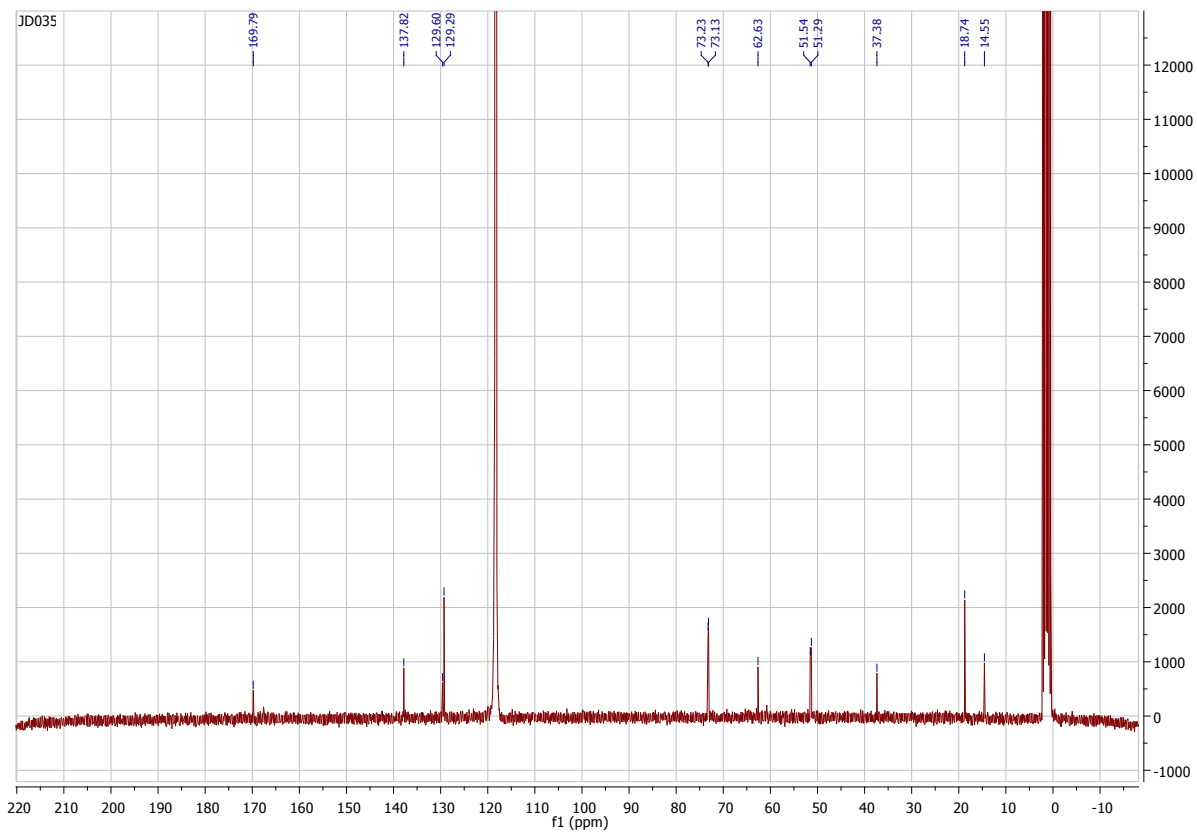


Figure S14: $\{^1\text{H}\}^{13}\text{C}$ NMR spectrum of compound **12a** in CD_3CN

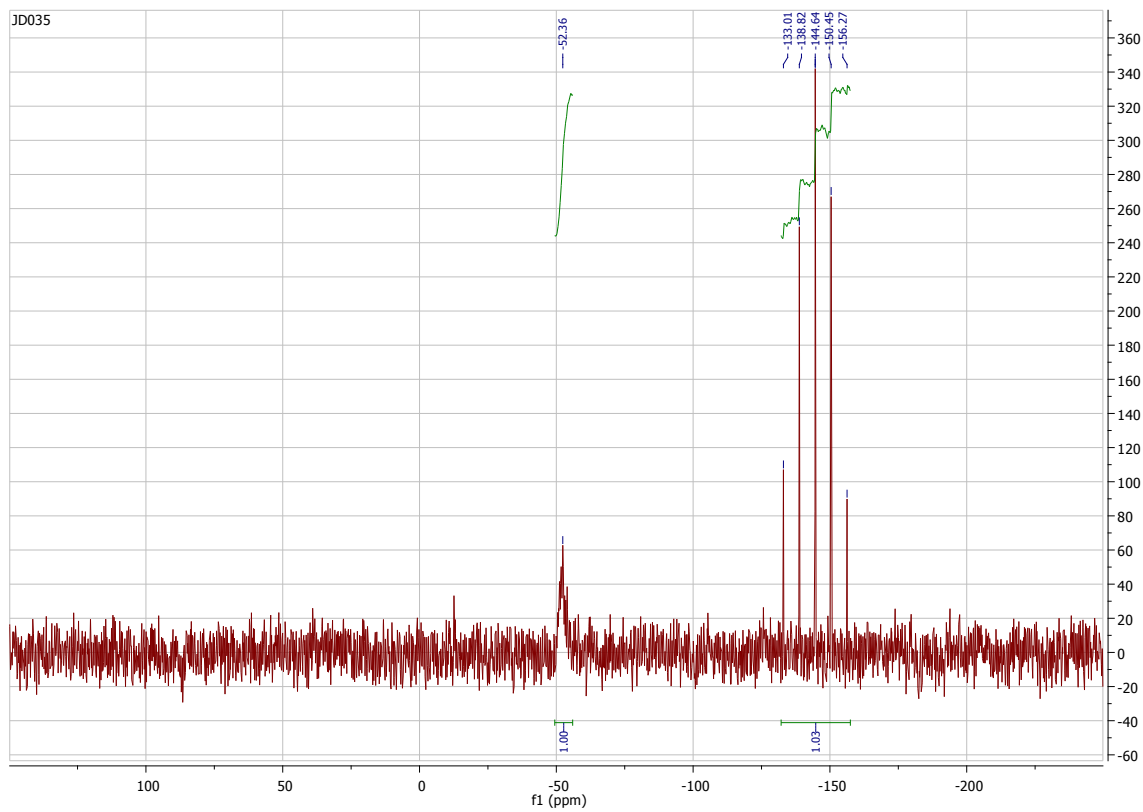


Figure S15: $\{^1\text{H}\}^{31}\text{P}$ NMR spectrum of compound **12a** in CD_3CN

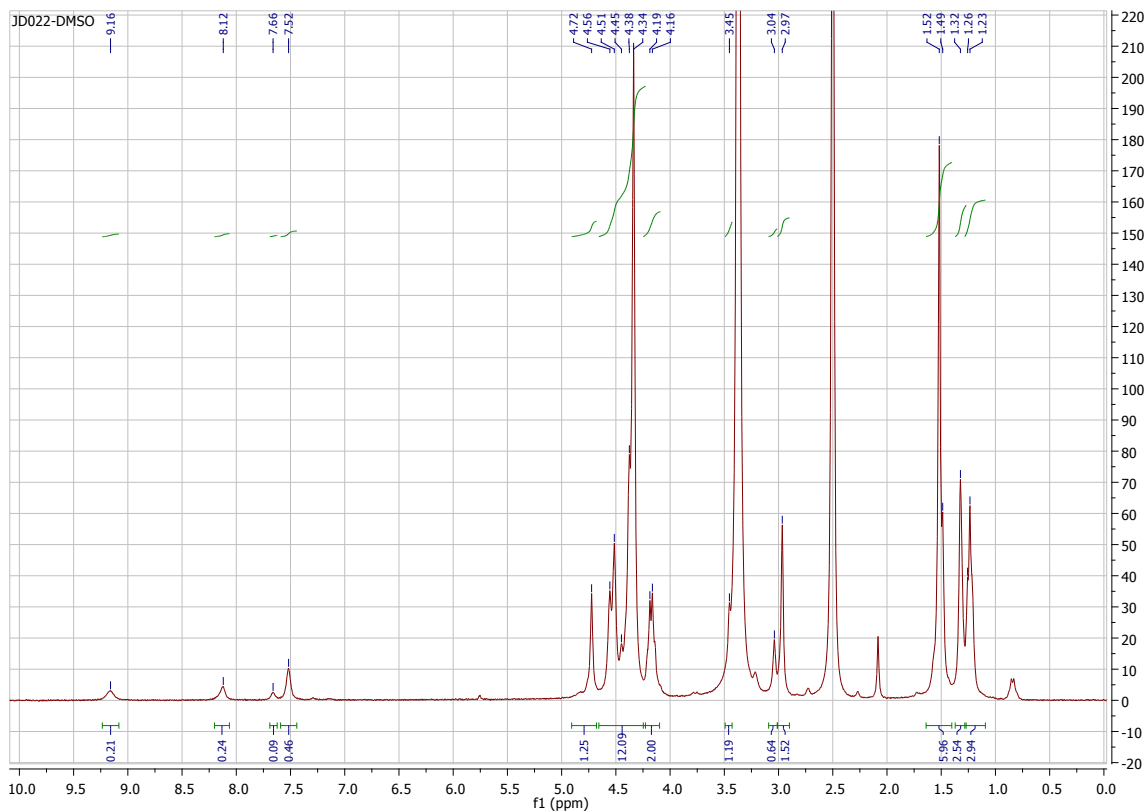


Figure S16: ^1H NMR spectrum of compound **12b** in DMSO- d_6

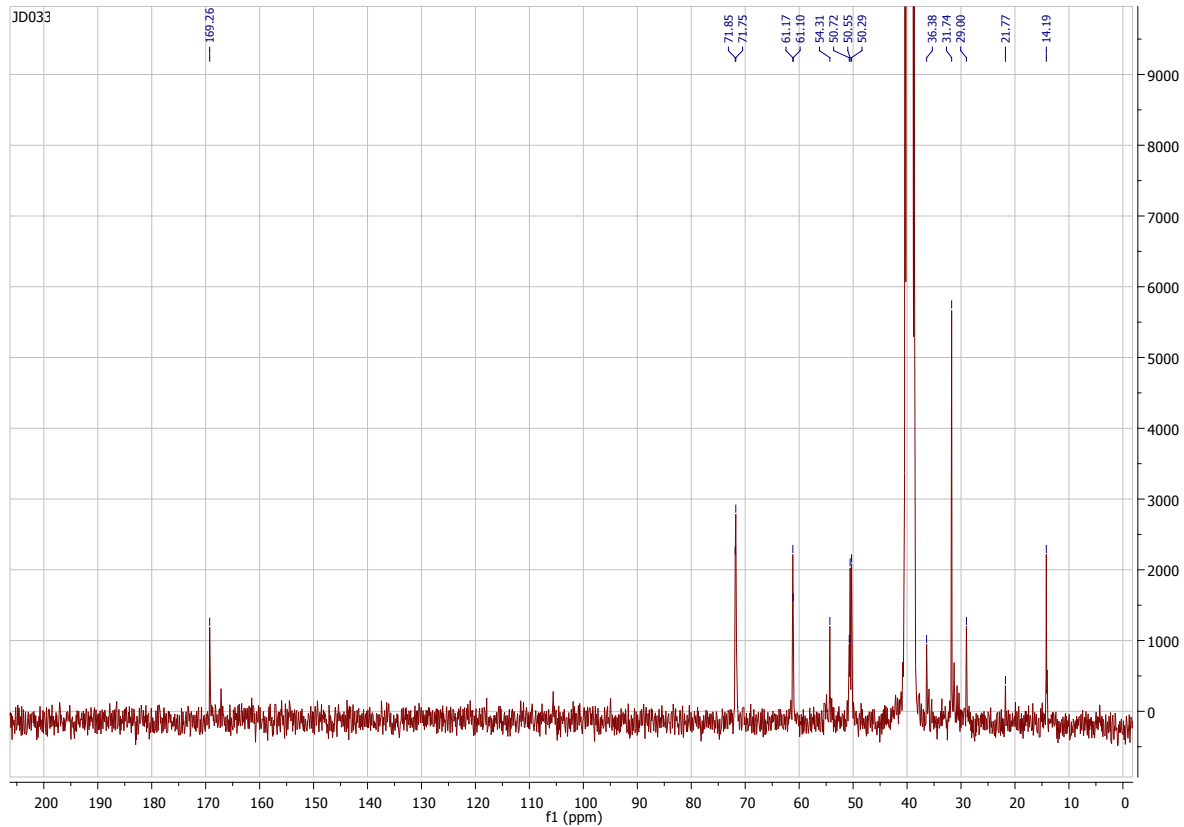


Figure S17: $\{^1\text{H}\}^{13}\text{C}$ NMR spectrum of compound **12b** in DMSO- d_6

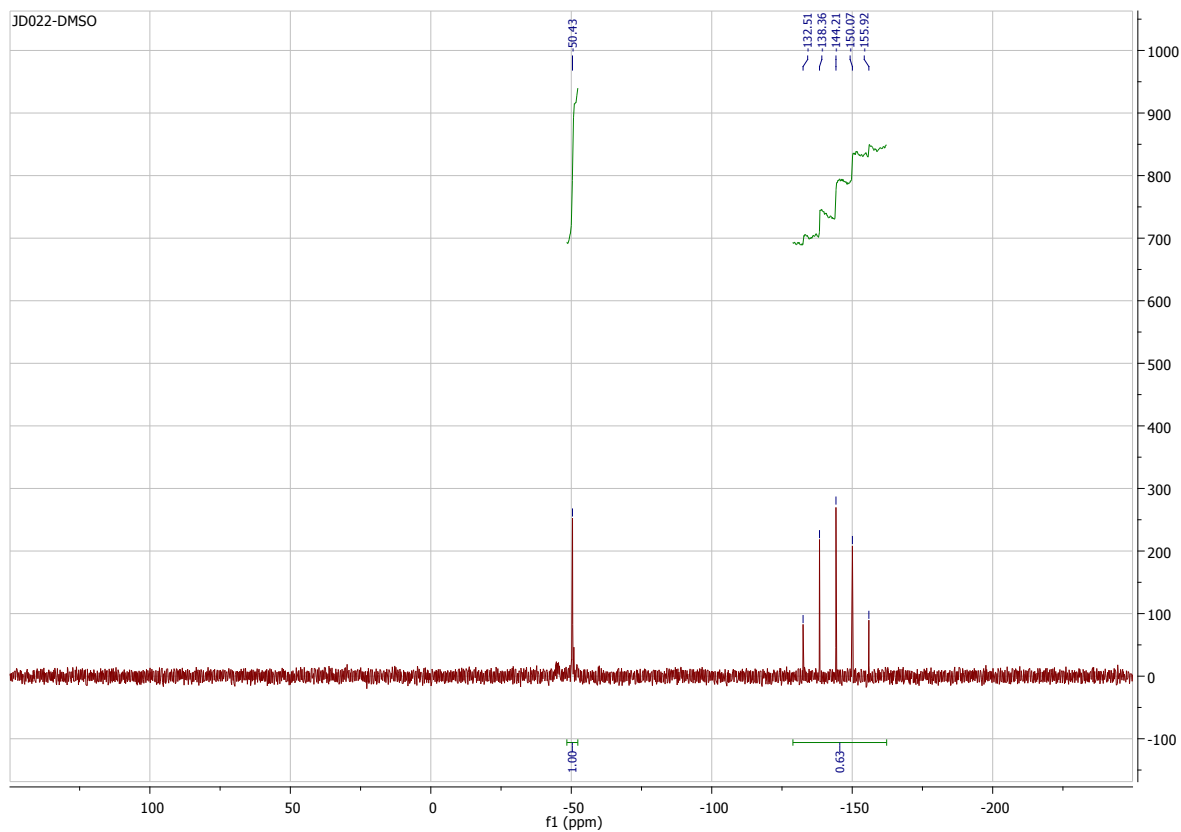


Figure S18: $\{^1\text{H}\}^{31}\text{P}$ NMR spectrum of compound **12b** in DMSO- d_6

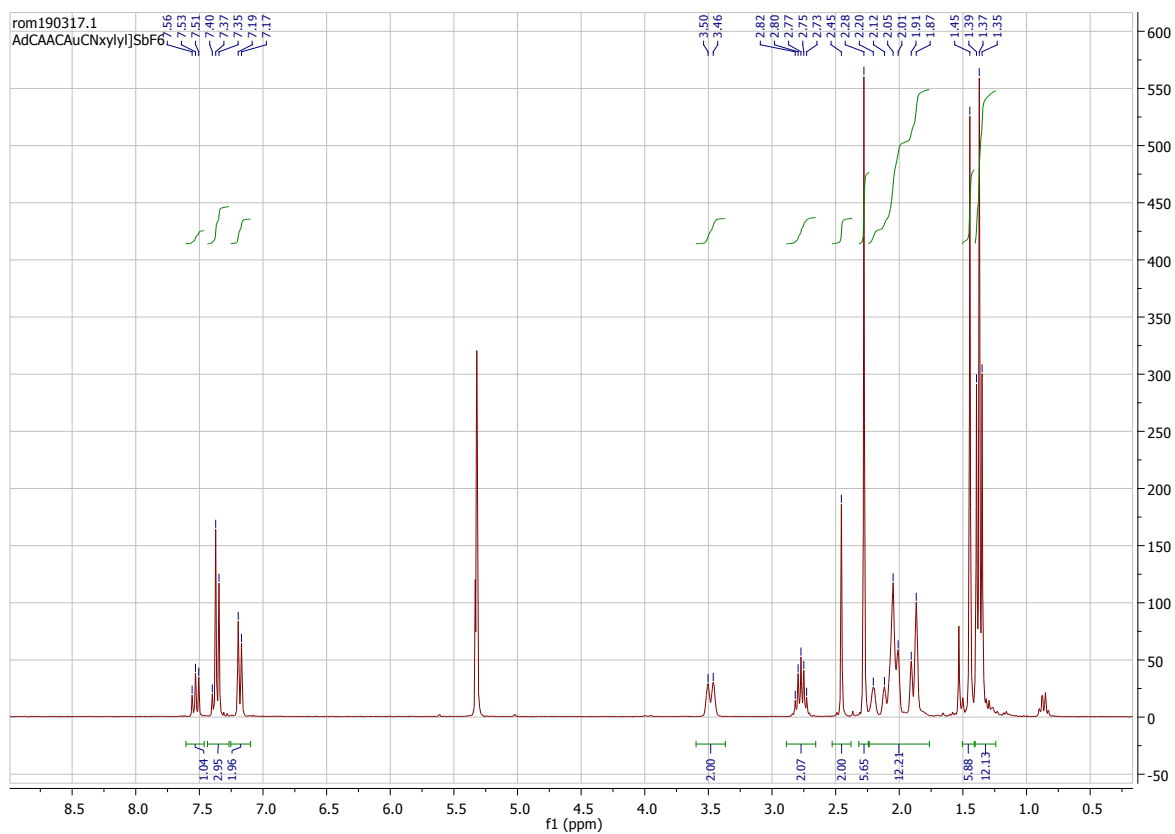


Figure S19: ^1H NMR spectrum of compound **13a** in CD_2Cl_2

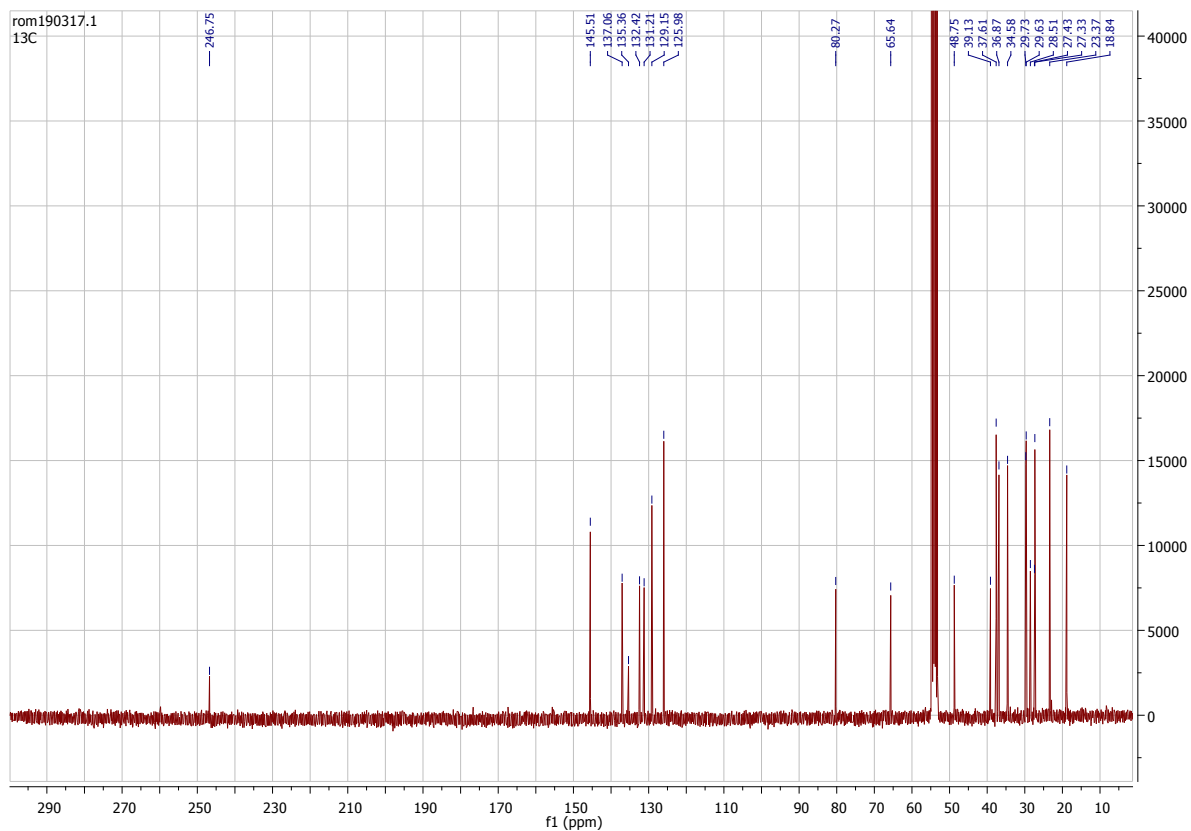


Figure S20: $\{^1\text{H}\}^{13}\text{C}$ NMR spectrum of compound **13a** in CD_2Cl_2

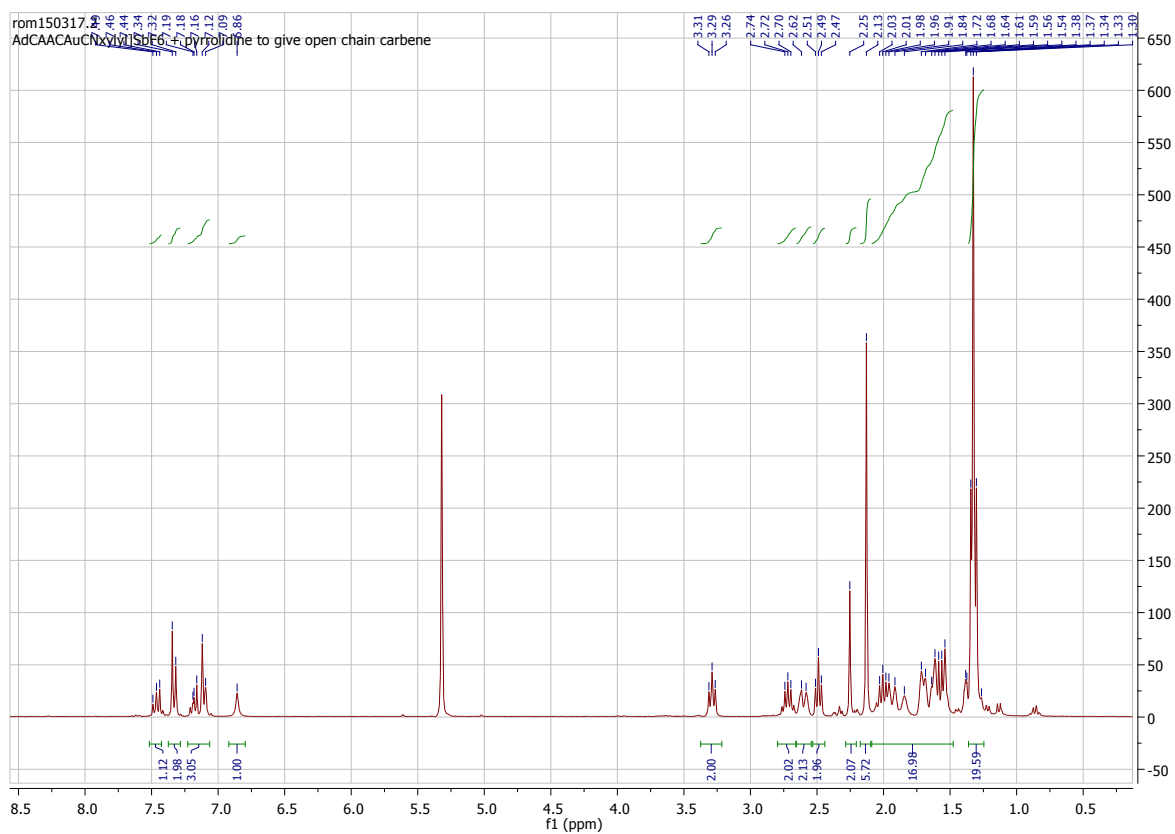


Figure S21: ^1H NMR spectrum of compound **14a** in CD_2Cl_2

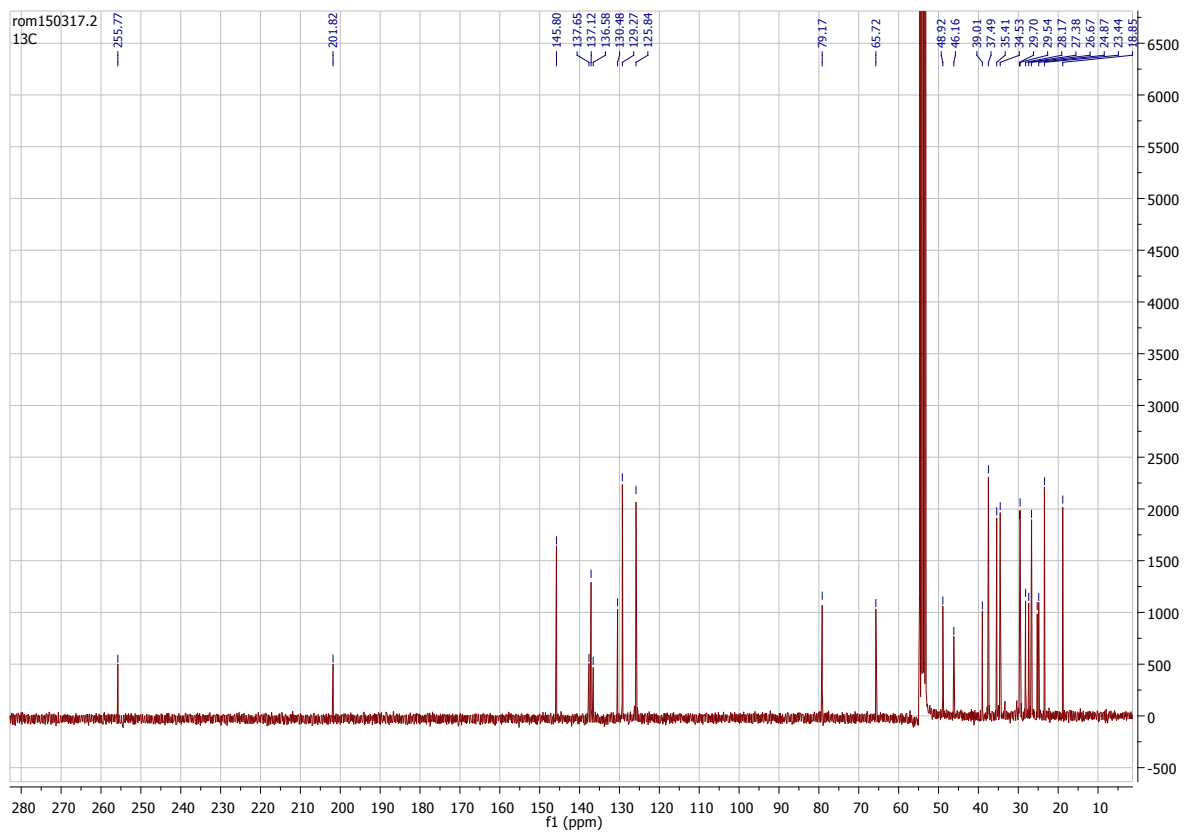


Figure S22: $\{^1\text{H}\}^{13}\text{C}$ NMR spectrum of compound **14a** in CD_2Cl_2