Adding Diversity to Diiron Aminocarbyne Complexes with Amine Ligands

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Supporting Information

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Figure S1. ^{1}H NMR spectrum (401 MHz, acetone-d6) of **2a** (integration refers to the major isomer)

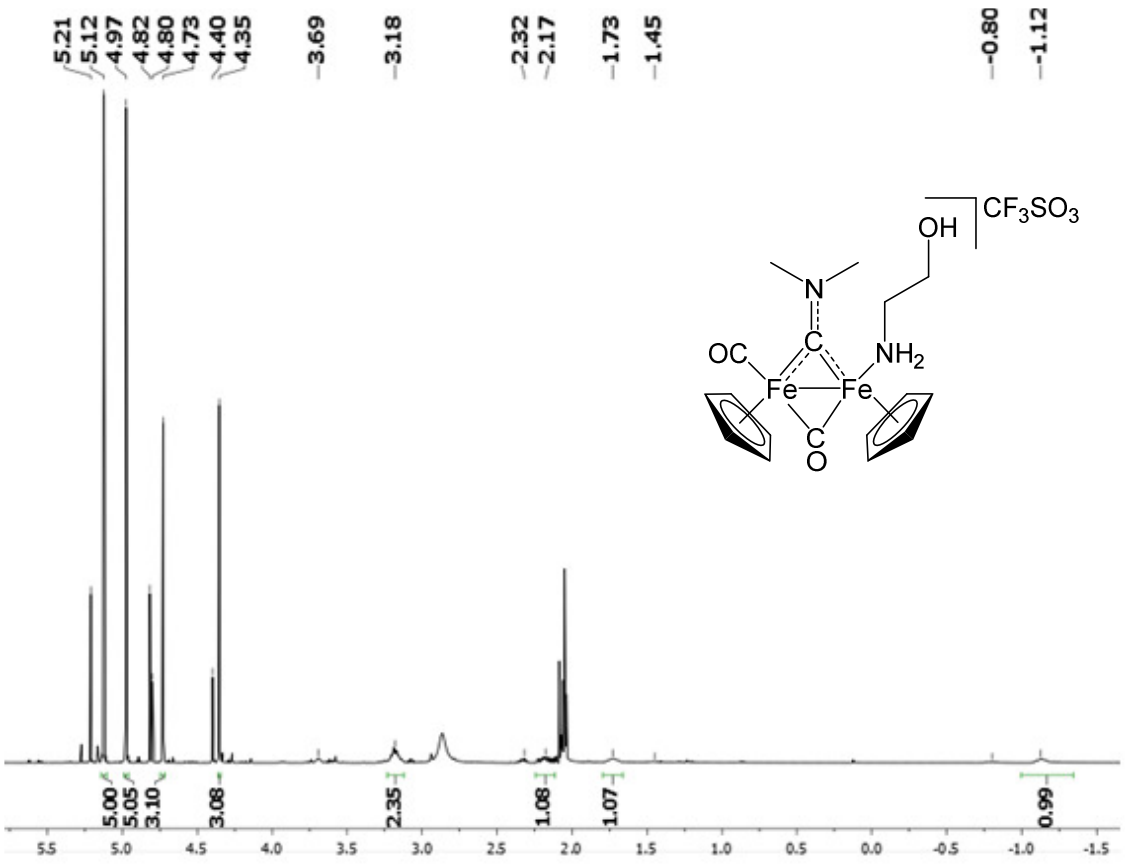

Figure S2. $^{13}C\{^{1}H\}$ NMR spectrum (101 MHz, acetone-d6) of **2a**

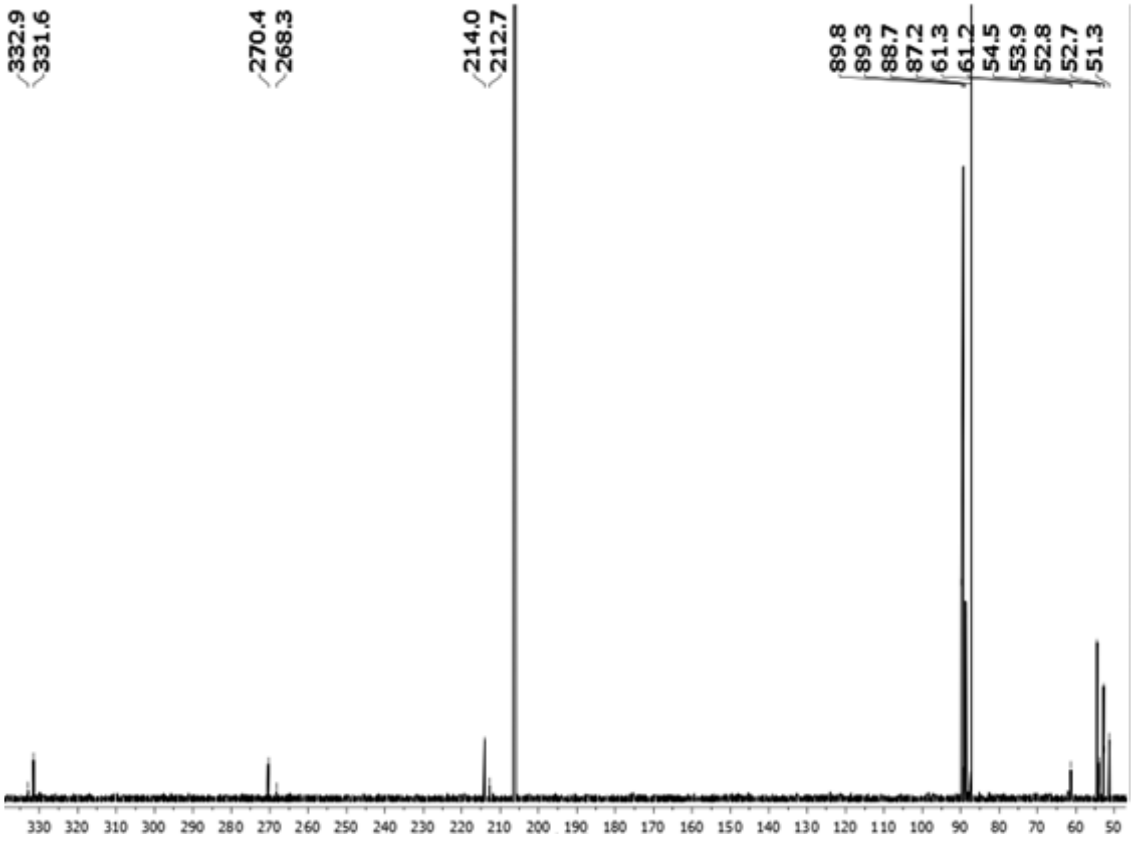

Figure S3. ^{1}H NMR spectrum (401 MHz, $CDCl_3$) of **2b** (integration refers to the major isomer)

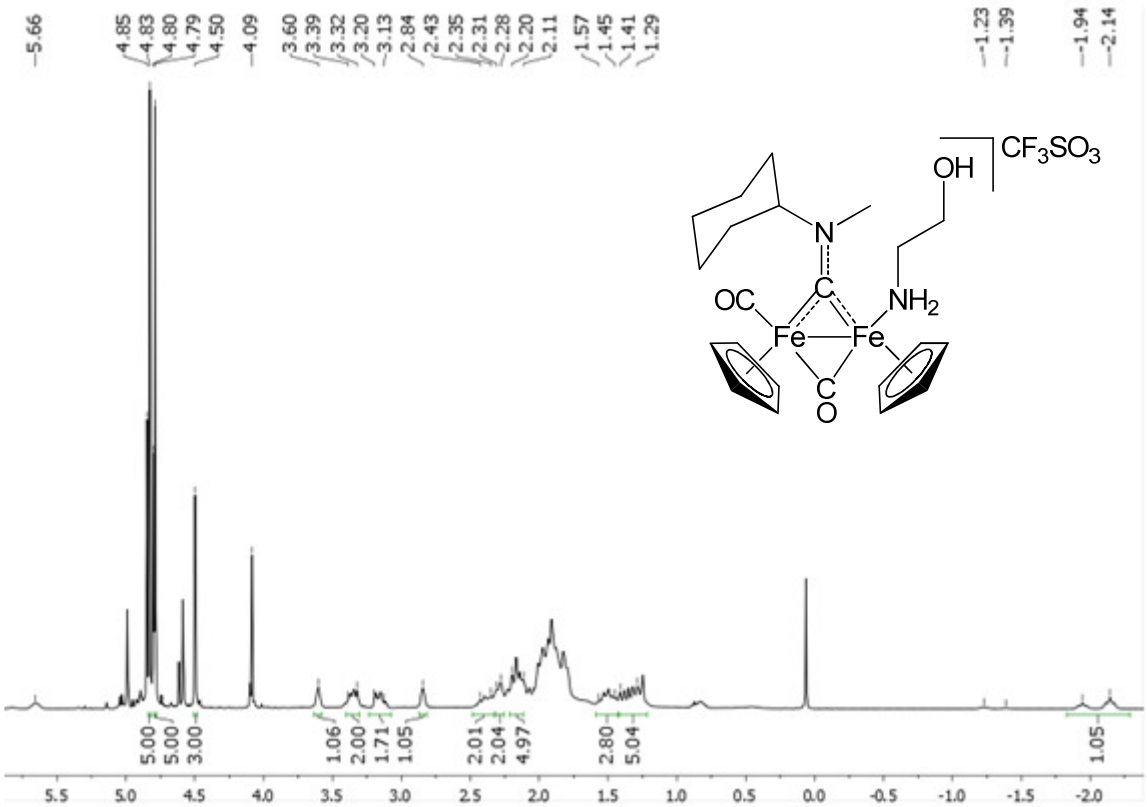

Figure S4. $^{13}C\{^{1}H\}$ NMR spectrum (101 MHz, $CDCl_3$) of **2b**

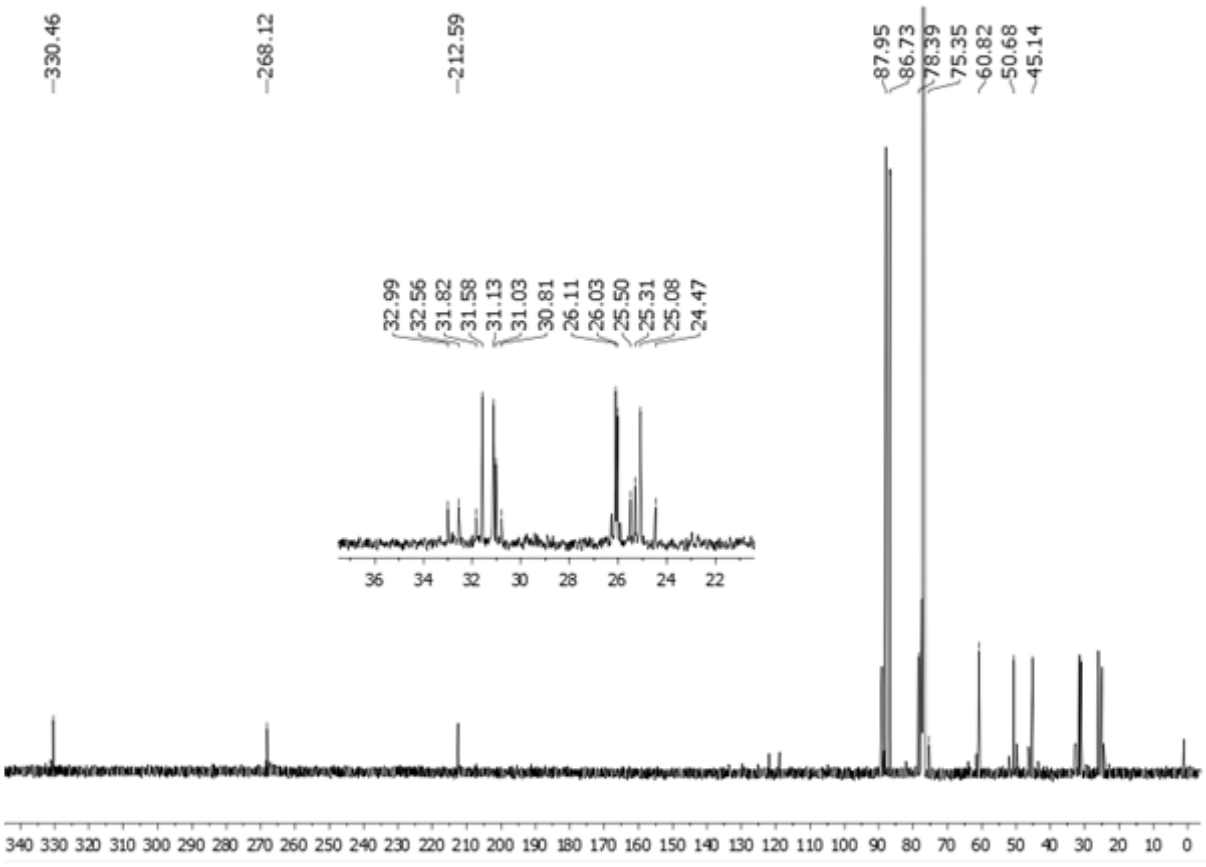

Figure S5. ^{1}H NMR spectrum (401 MHz, $CDCl_3$) of **2c** (integration refers to the major isomer)

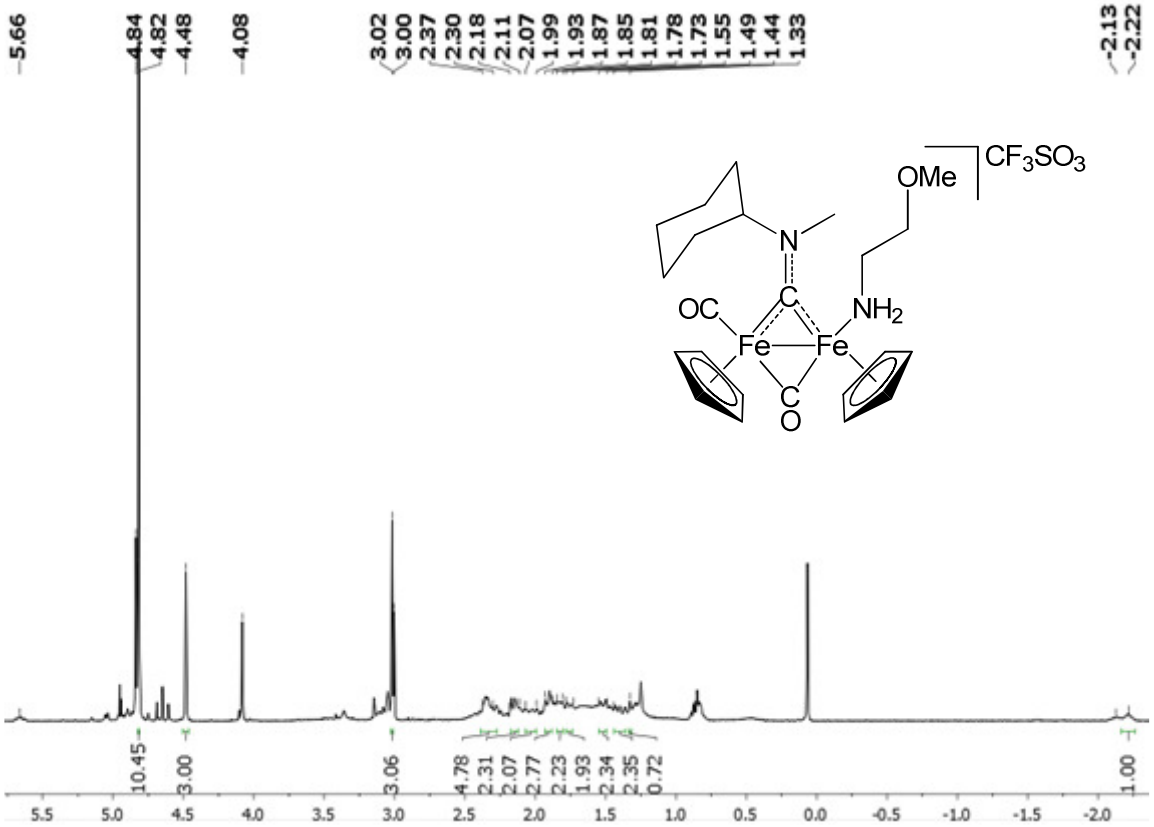

Figure S6. $^{13}C\{^{1}H\}$ NMR spectrum (101 MHz, $CDCl_3$) of **2c**

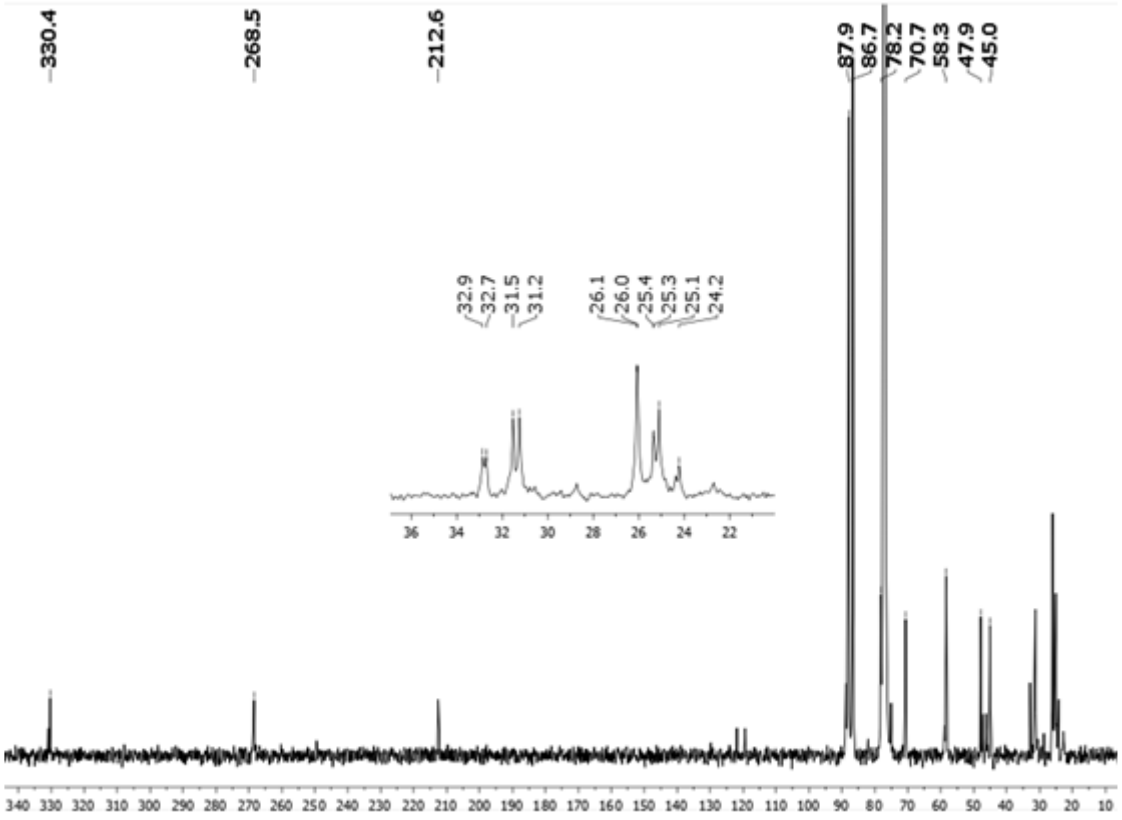

Figure S7. ^{1}H NMR spectrum (401 MHz, $CDCl_3$) of $\mathbf{NH_2^{ox}}$

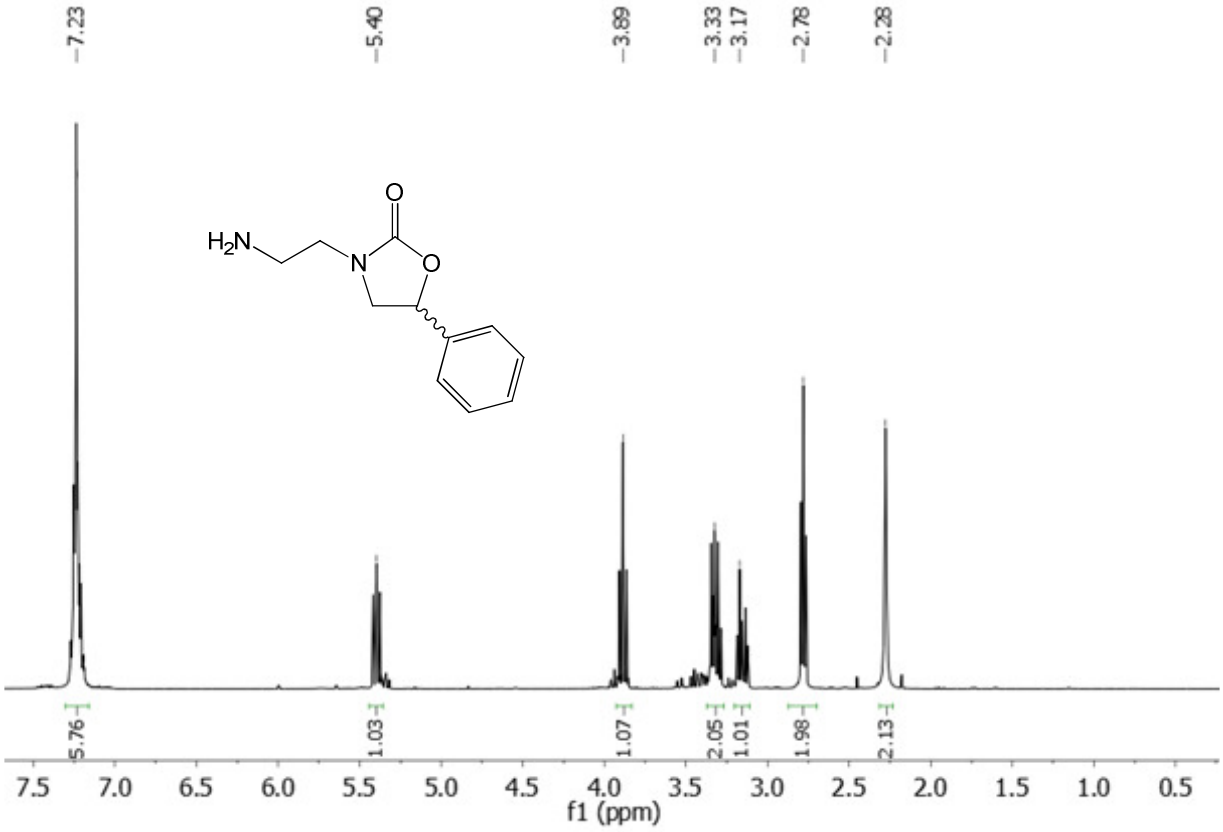

Figure S8. ^{1}H NMR spectrum (401 MHz, acetone-d6) of **3**

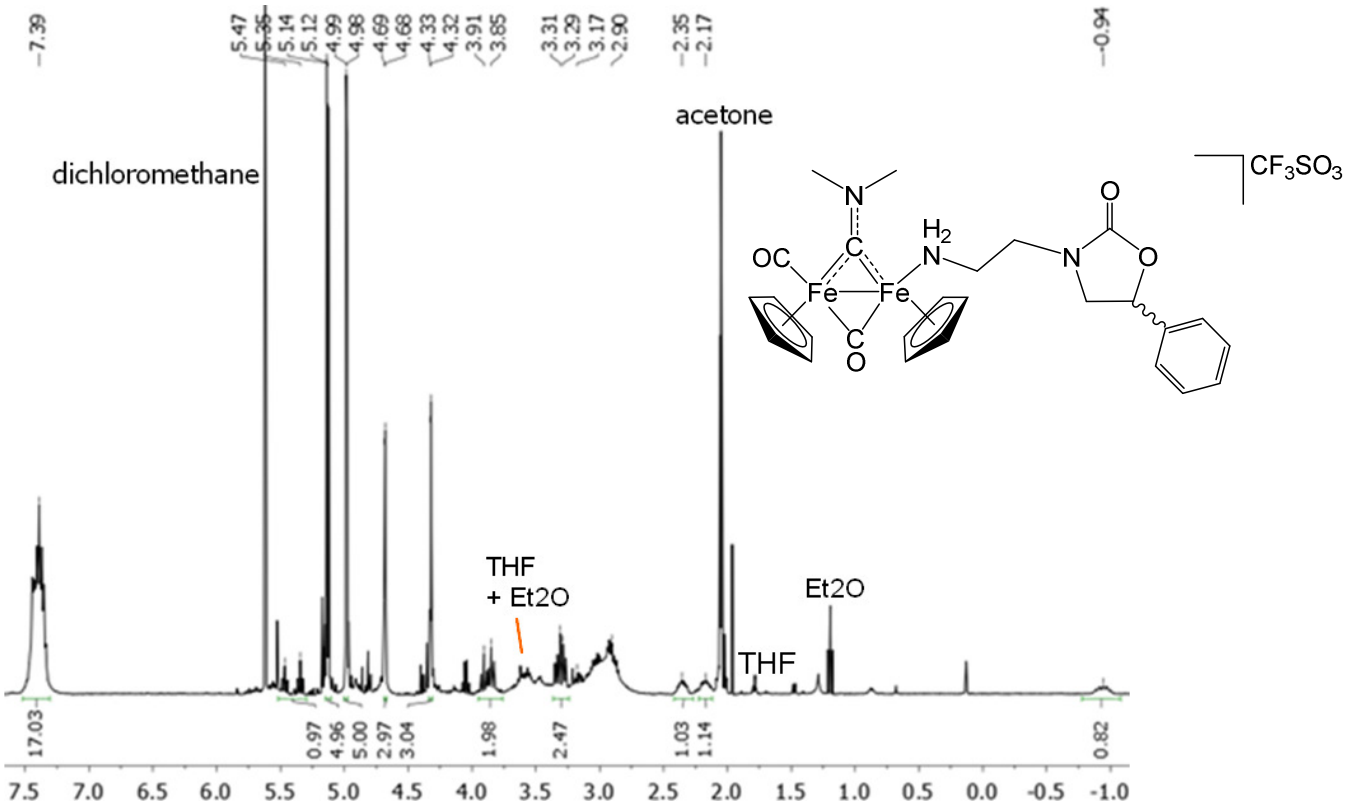

Figure S9. $^{13}C\{^{1}H\}$ NMR spectrum (101 MHz, acetone-d6) of **3**

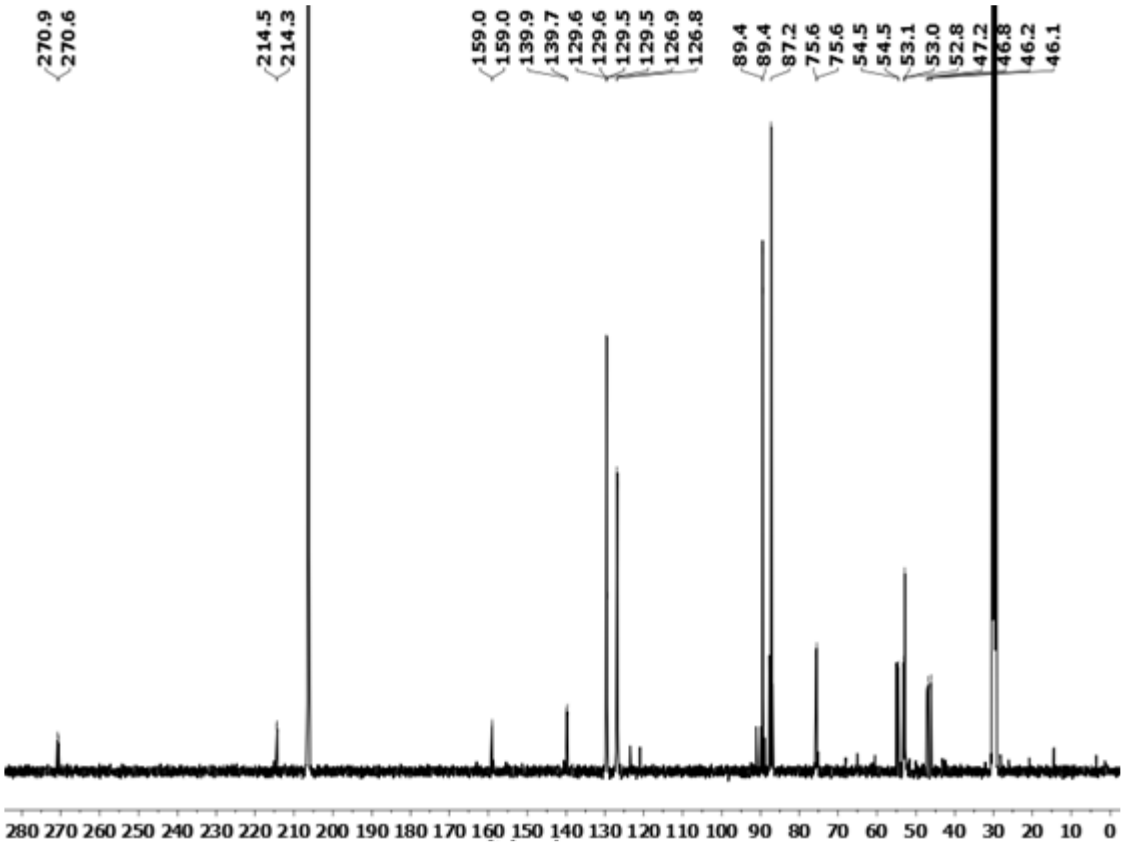

Figure S10. ^{1}H NMR spectrum (401 MHz, acetone-d6) of **4a** (integration refers to the major isomer)

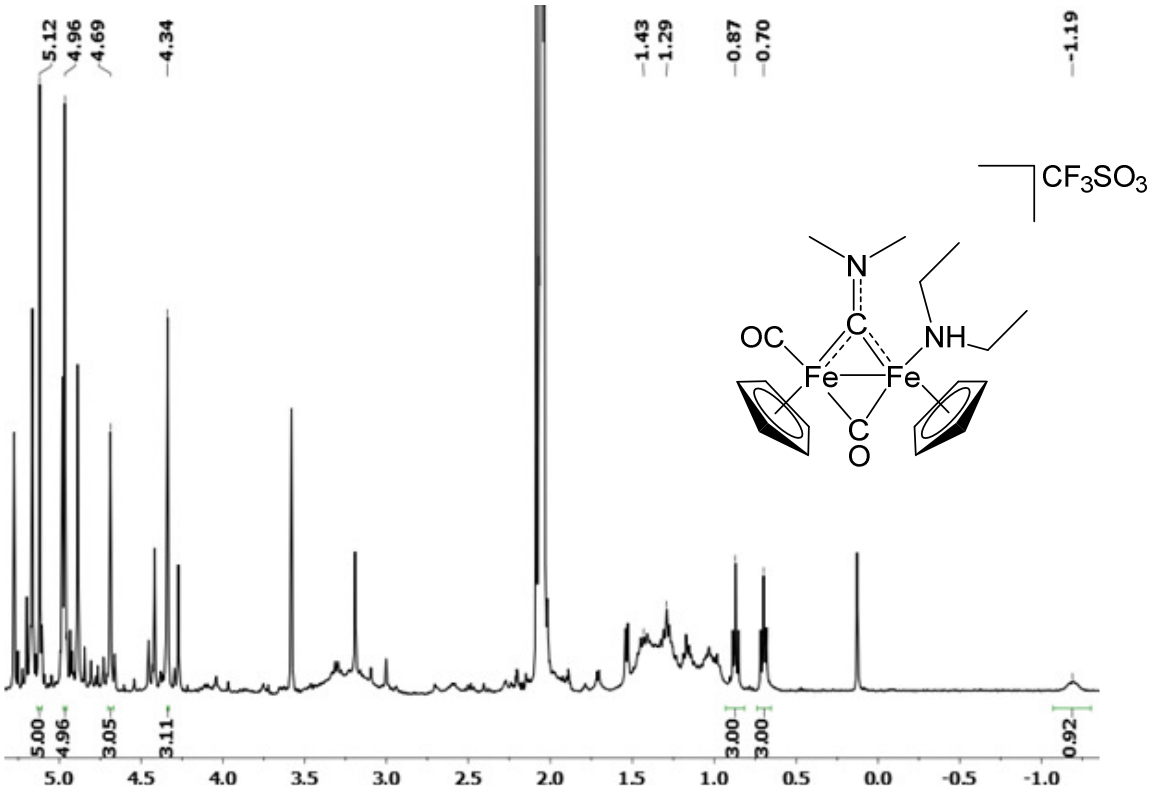

Figure S11. ^{1}H NMR spectrum (401 MHz, $CDCl_3$) of **4b** (integration refers to the major isomer)