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1. Spectroscopic Data For compound (1)

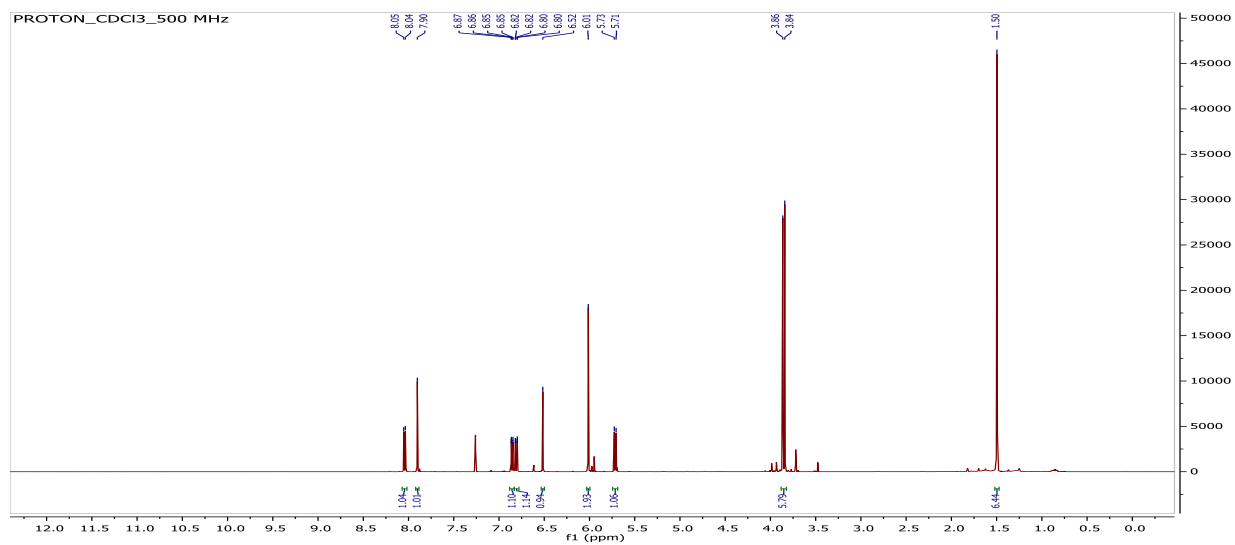


Figure S1 ^1H NMR spectrum of (1) observed at 500 MHz for CDCl_3 solvent at 25°C .

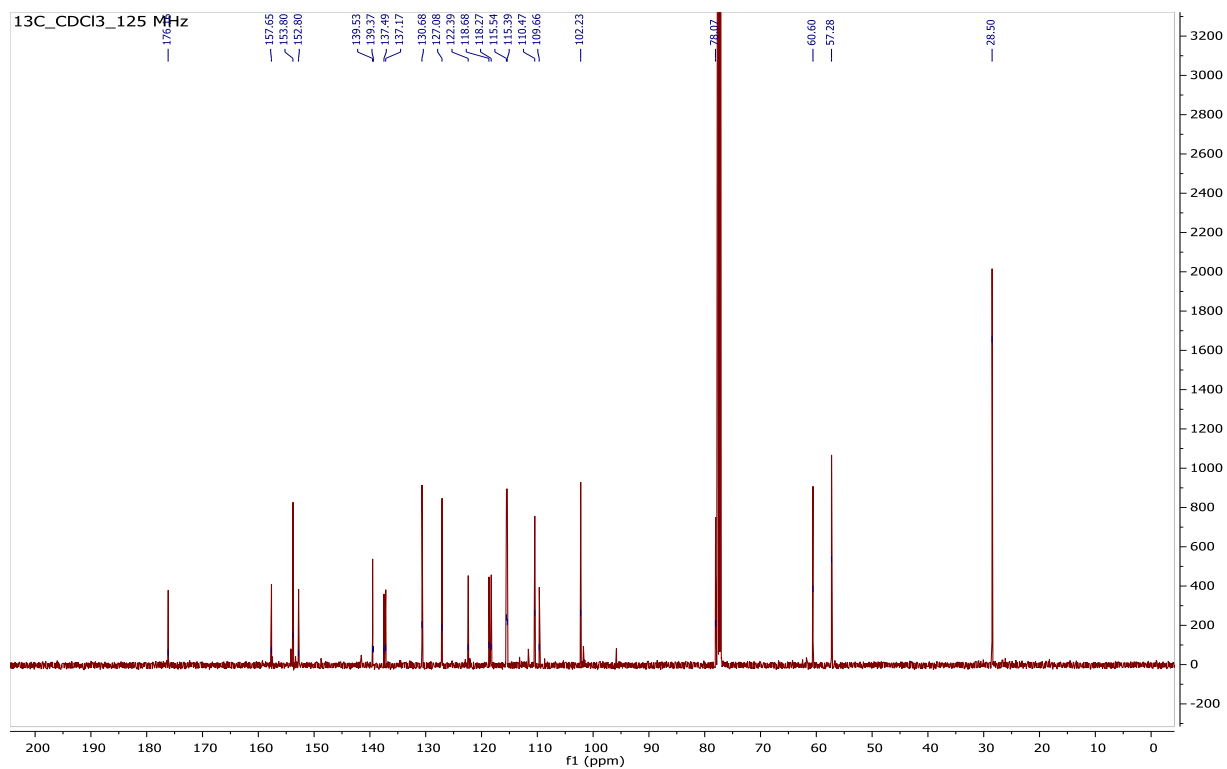


Figure S2 ^{13}C NMR spectrum of (1) observed at 125 MHz for CDCl_3 solvent at 25°C .

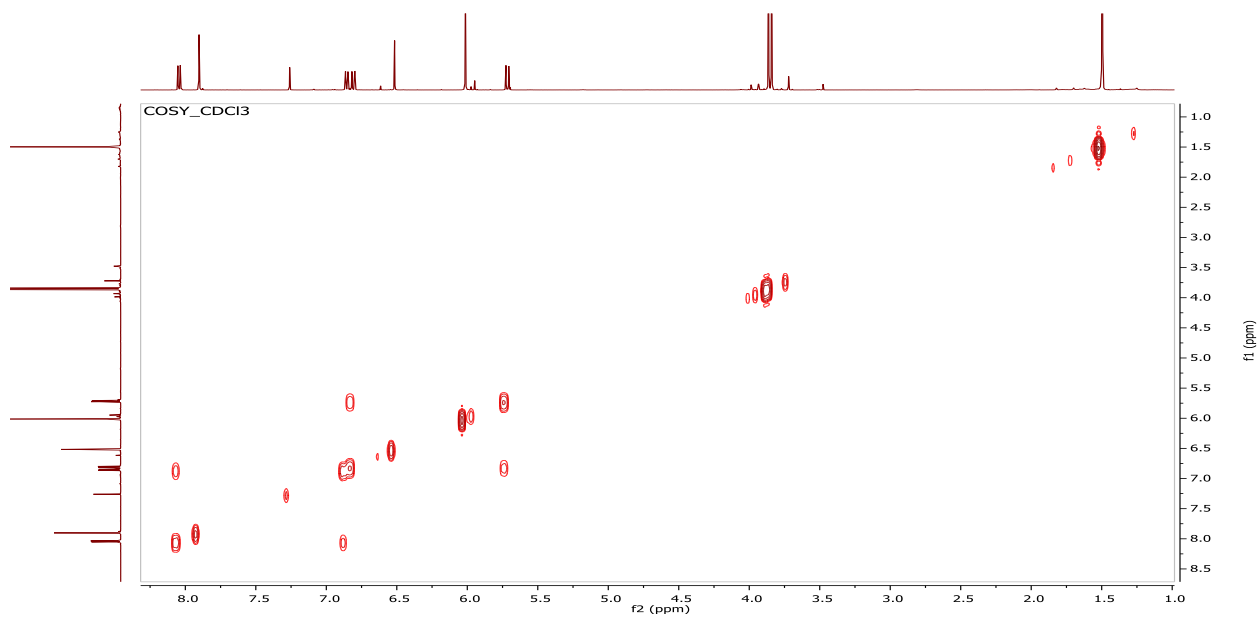


Figure S3 COSY (1) observed at 500 MHz for CDCl_3 solvent at 25°C

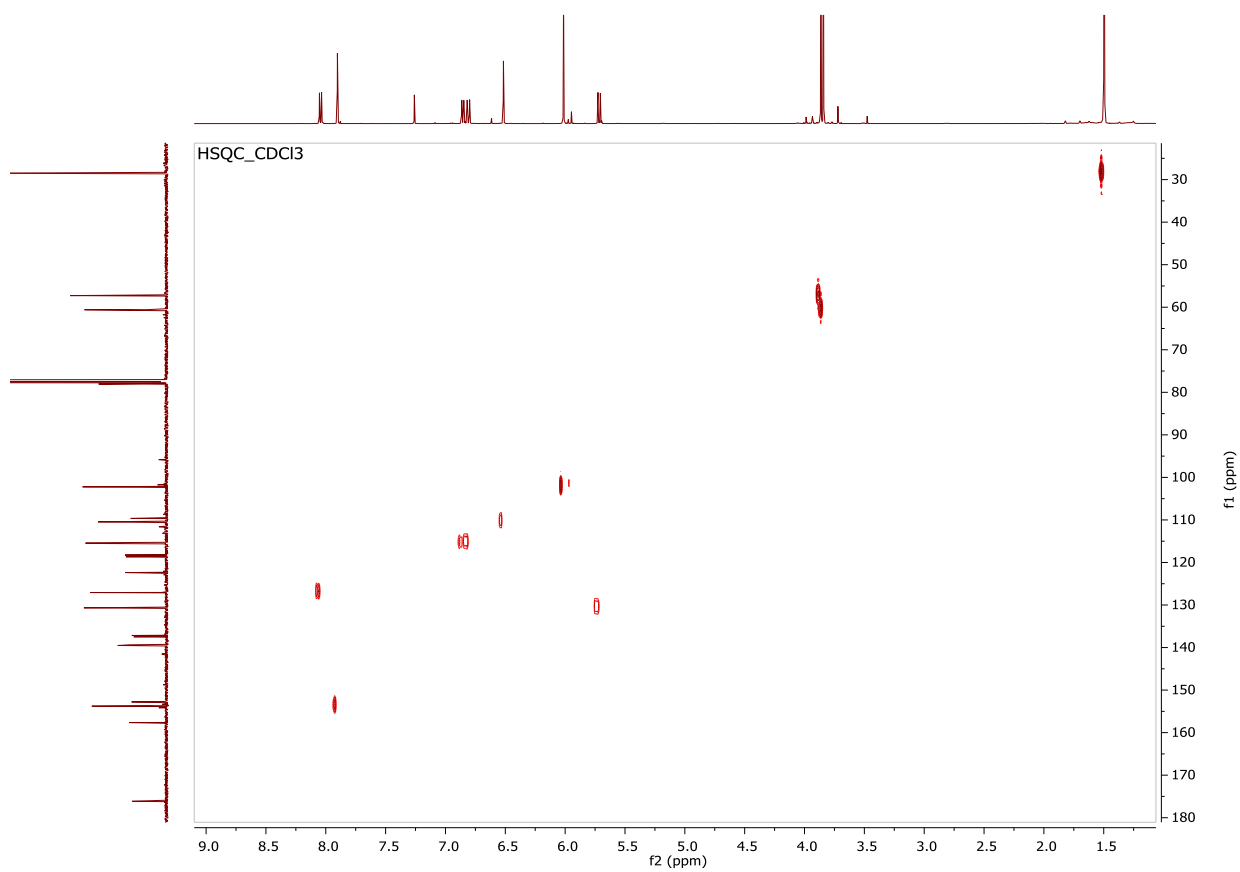


Figure S4 HSQC spectrum of (1) observed at 500 MHz and 125 MHz for CDCl₃ solvent at 25⁰C.

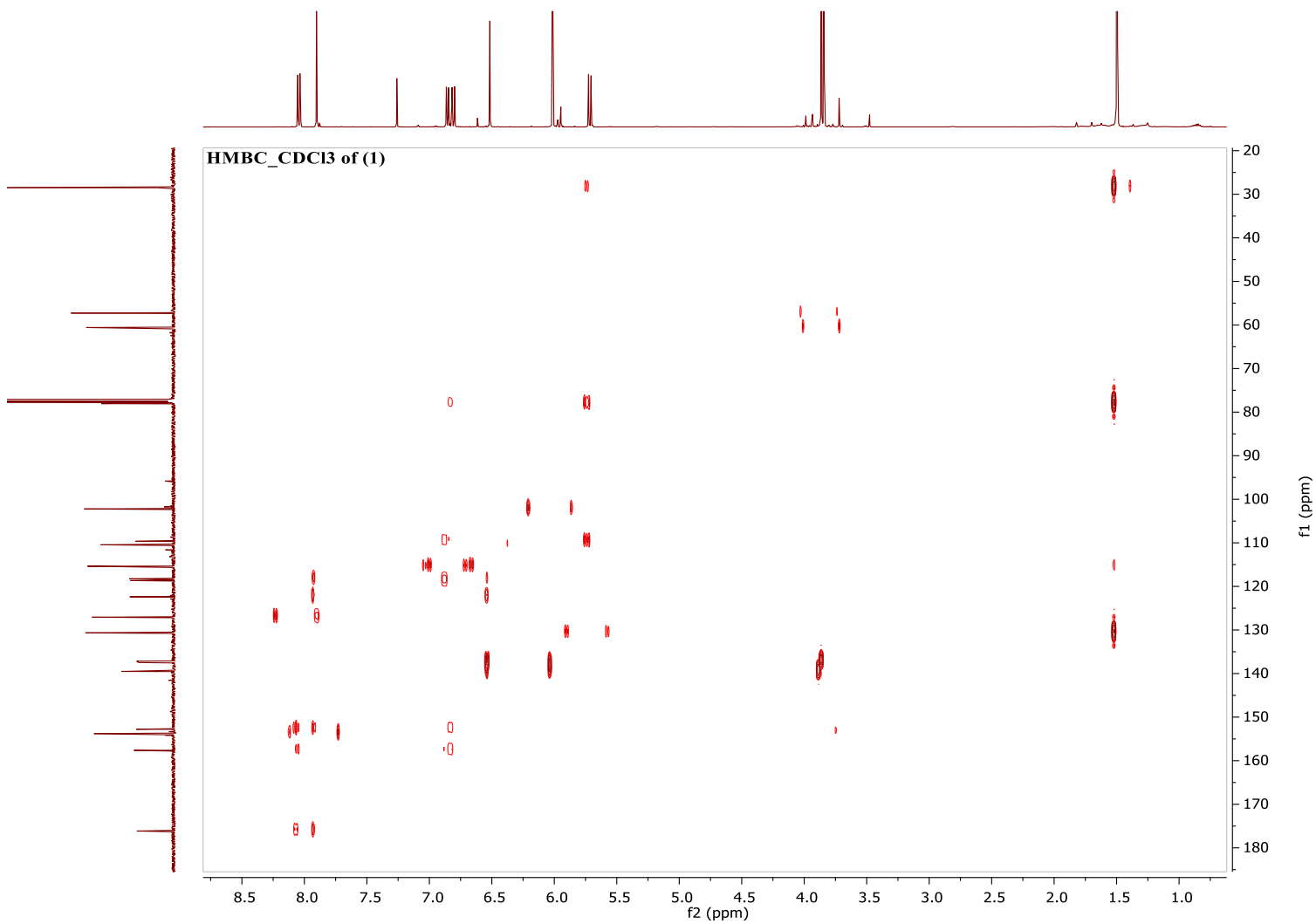


Figure S5 HMBC spectrum of (1) observed at 500 MHz and 125 MHz for CDCl₃ solvent at 25^oC

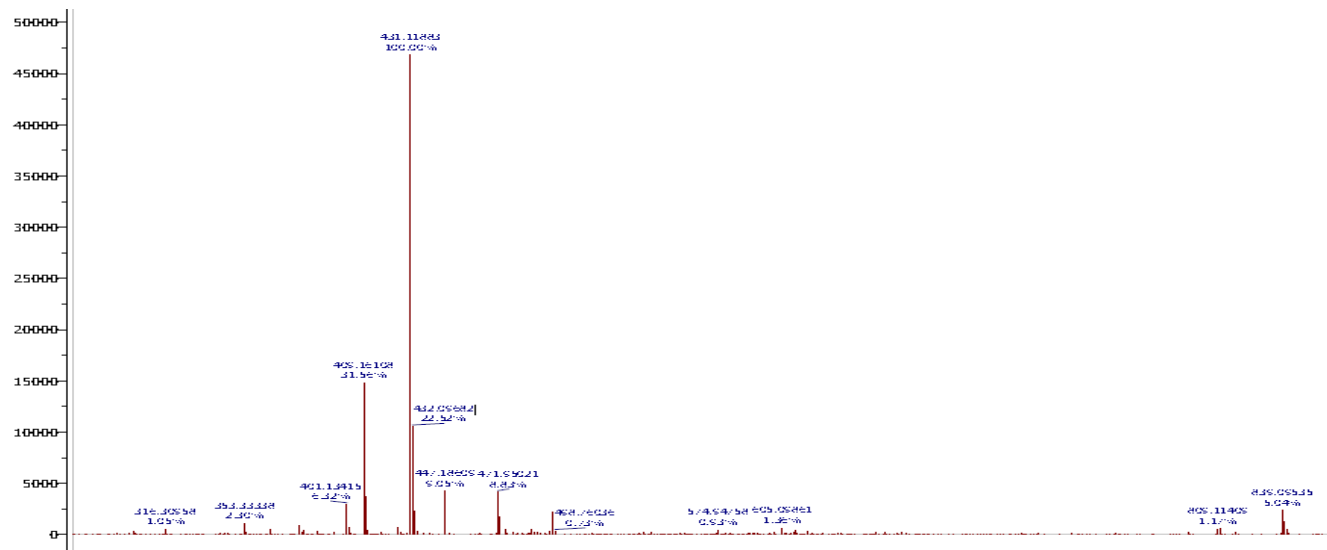


Figure S6 The HR-ESI-MS Spectrum of (1)

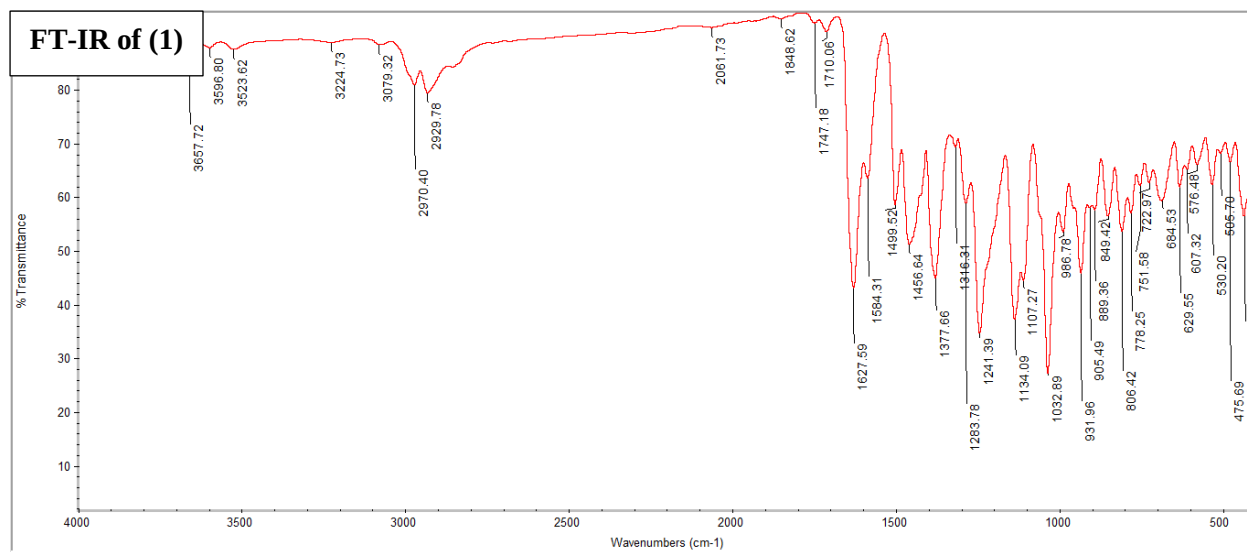


Figure S7 FT-IR spectra of compound (1)

2. Spectroscopic Data For Compound (2)

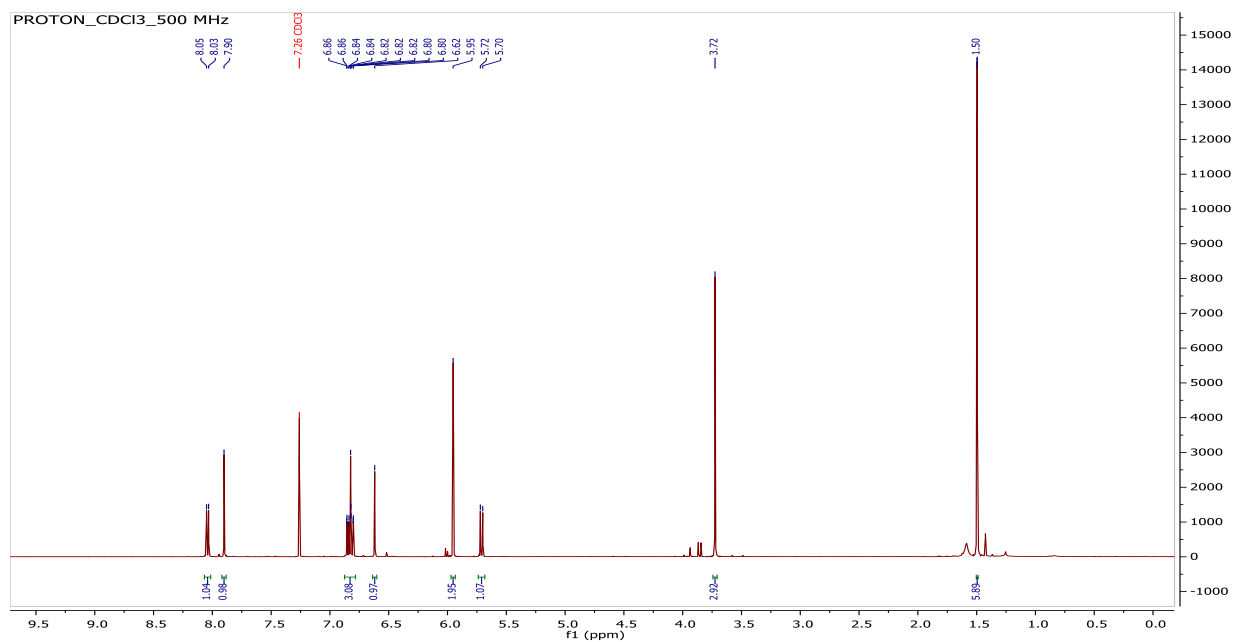


Figure S8 ¹H NMR spectrum of (2) observed at 500 MHz for CDCl₃ solvent at 25⁰C.

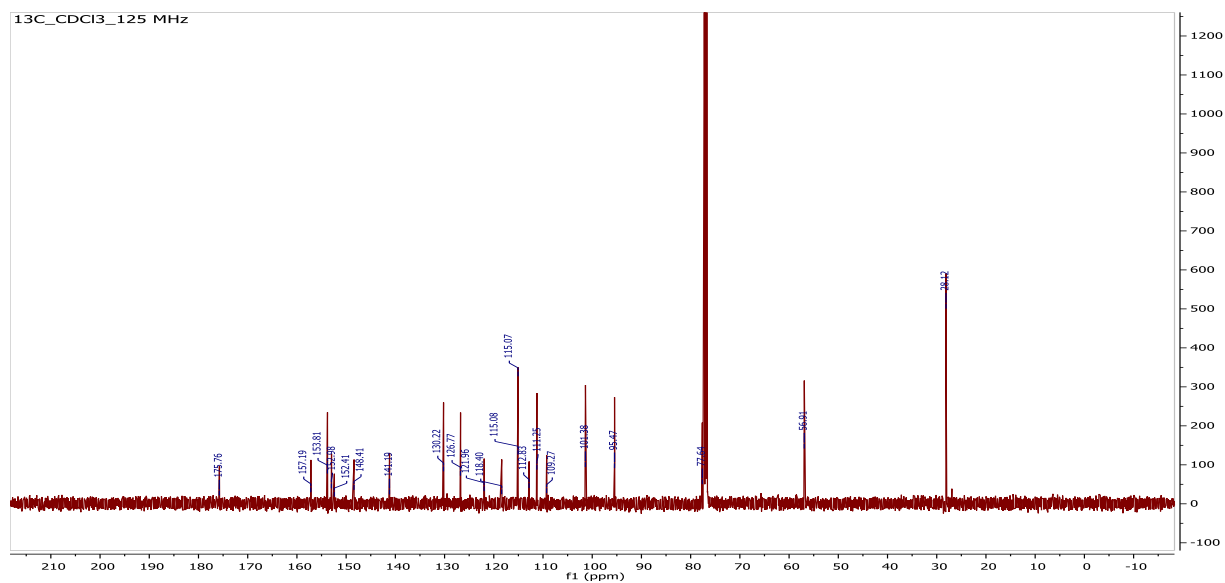


Figure S9 ¹³C NMR spectrum (2) observed at 125 MHz for CDCl₃ solvent at 25⁰C

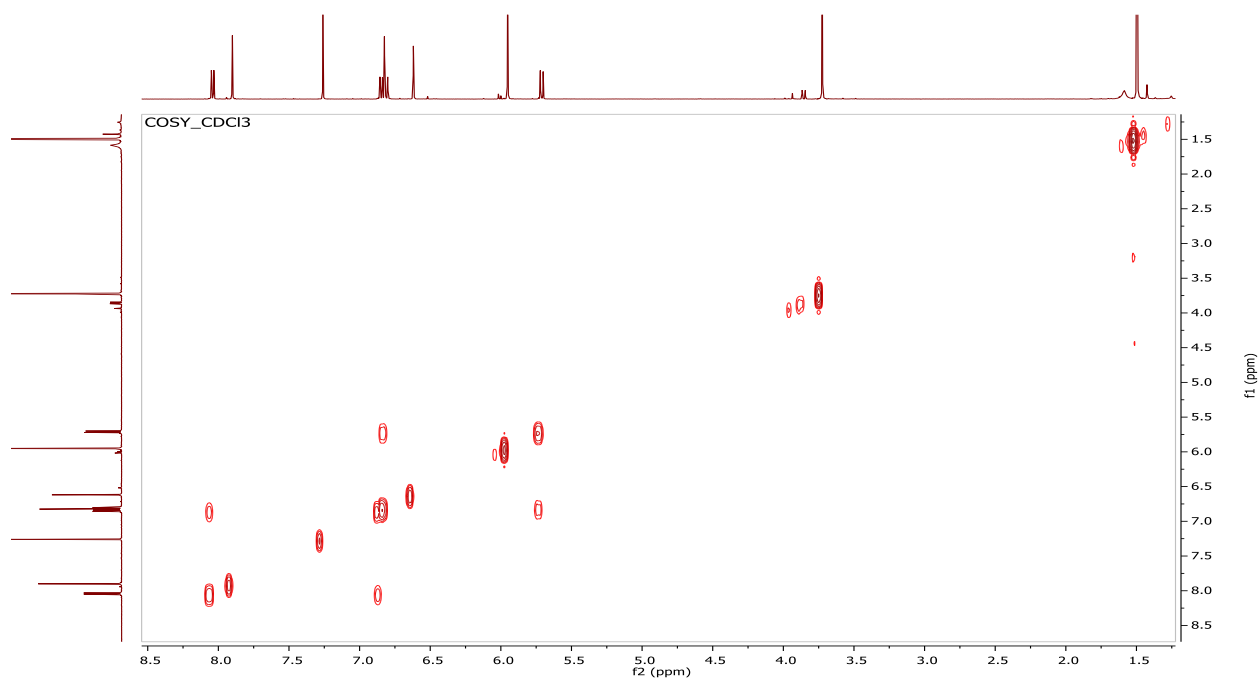


Figure S10 COSY (2) observed at 500 MHz for CDCl_3 solvent at 25°C .

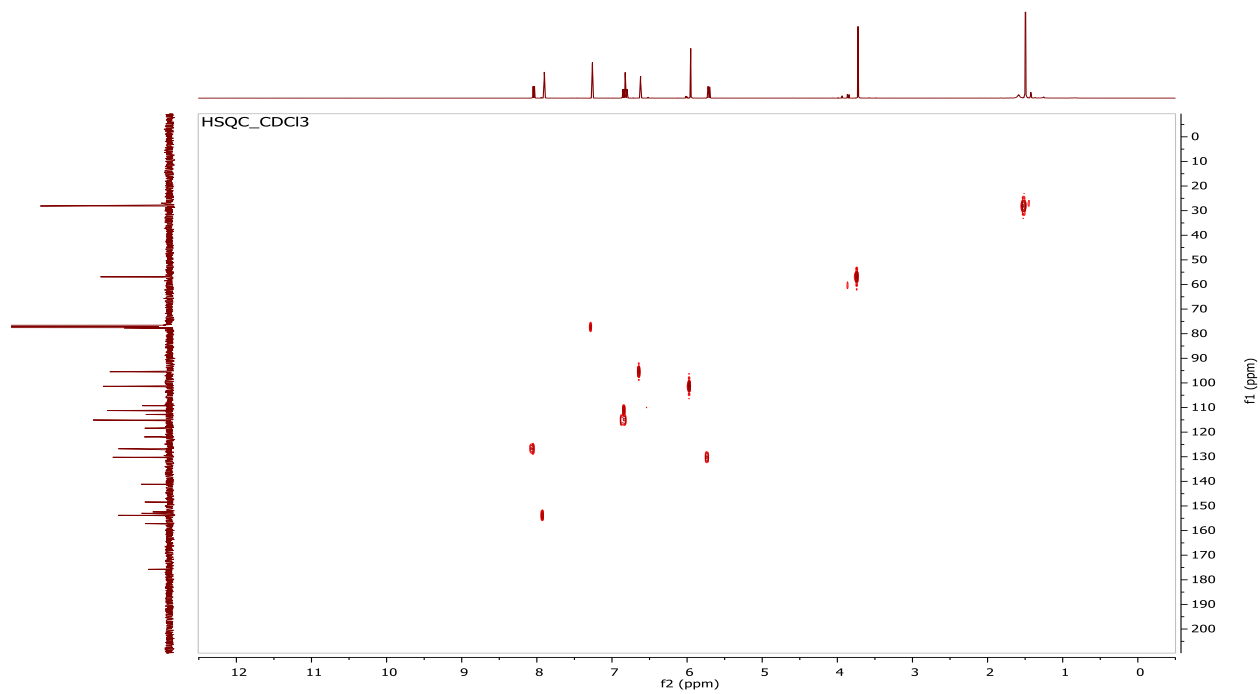


Figure S11 HSQC spectrum of (2) observed at 500 MHz and 125MHz for CDCl_3 solvent at 25°C .

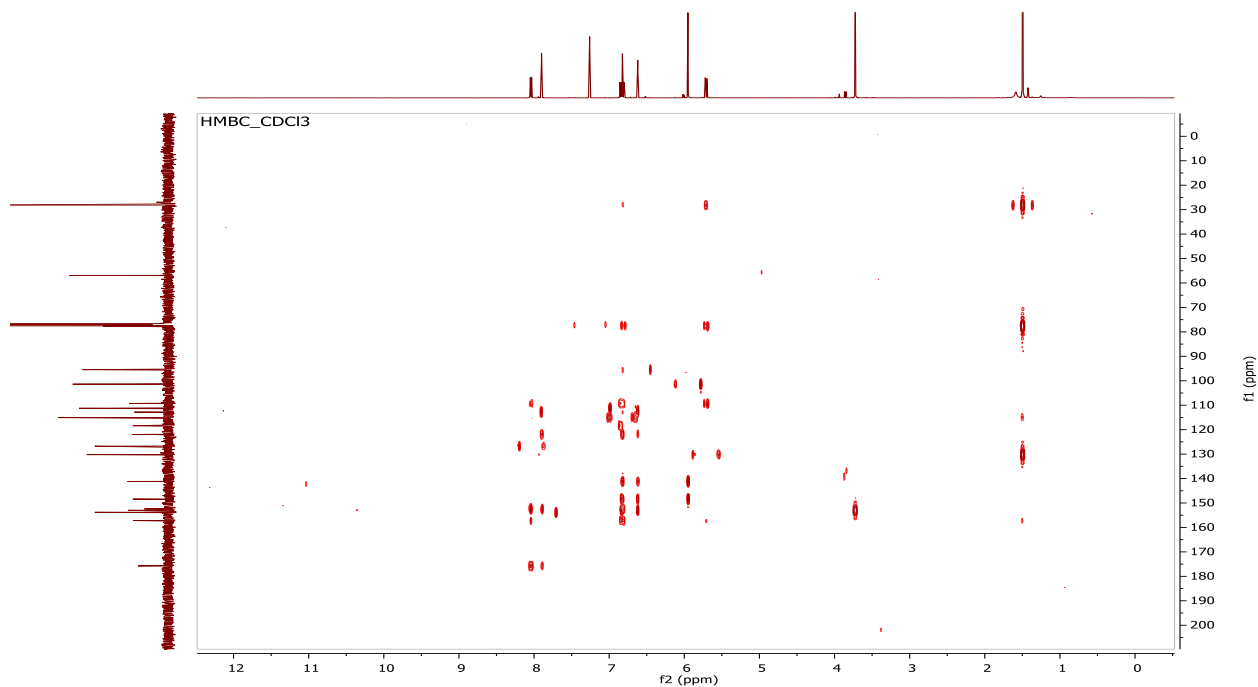


Figure S12 HMBC spectrum of (2) observed at 500 MHz and 125MHz for CDCl_3 solvent at 25°C .

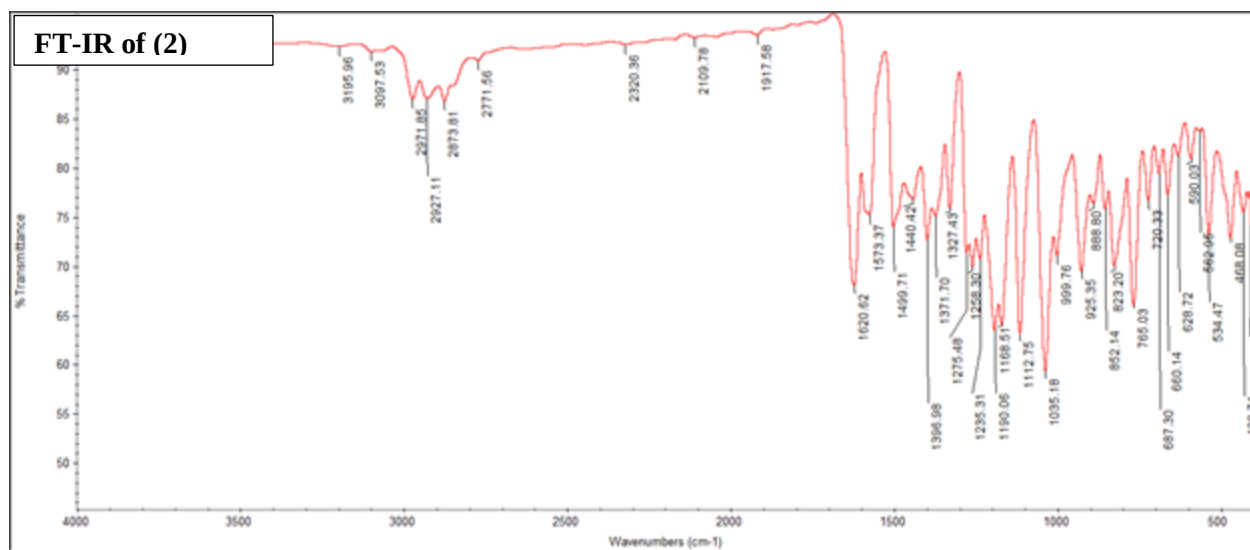


Figure S13 FT-IR spectra of compound (2)

3. Spectra Data of Compound 3

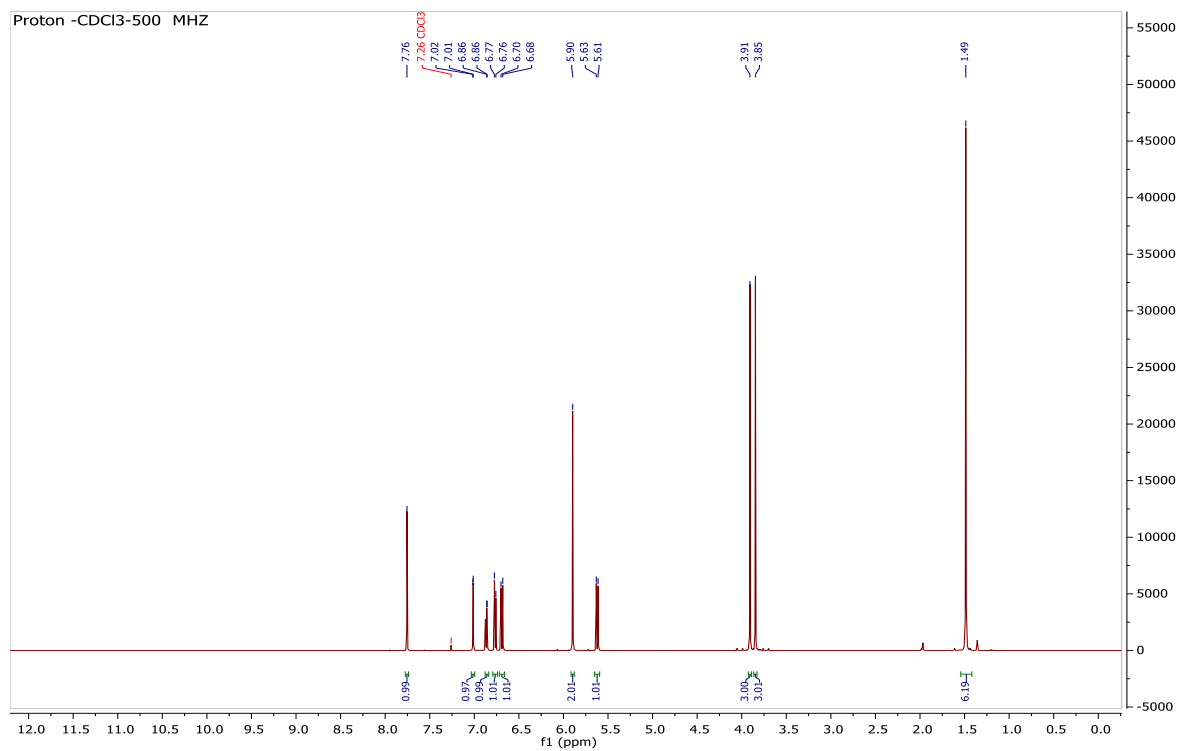


Figure S14 ¹H NMR spectrum of (3) observed at 500 MHz for CDCl₃ solvent at 25⁰C.

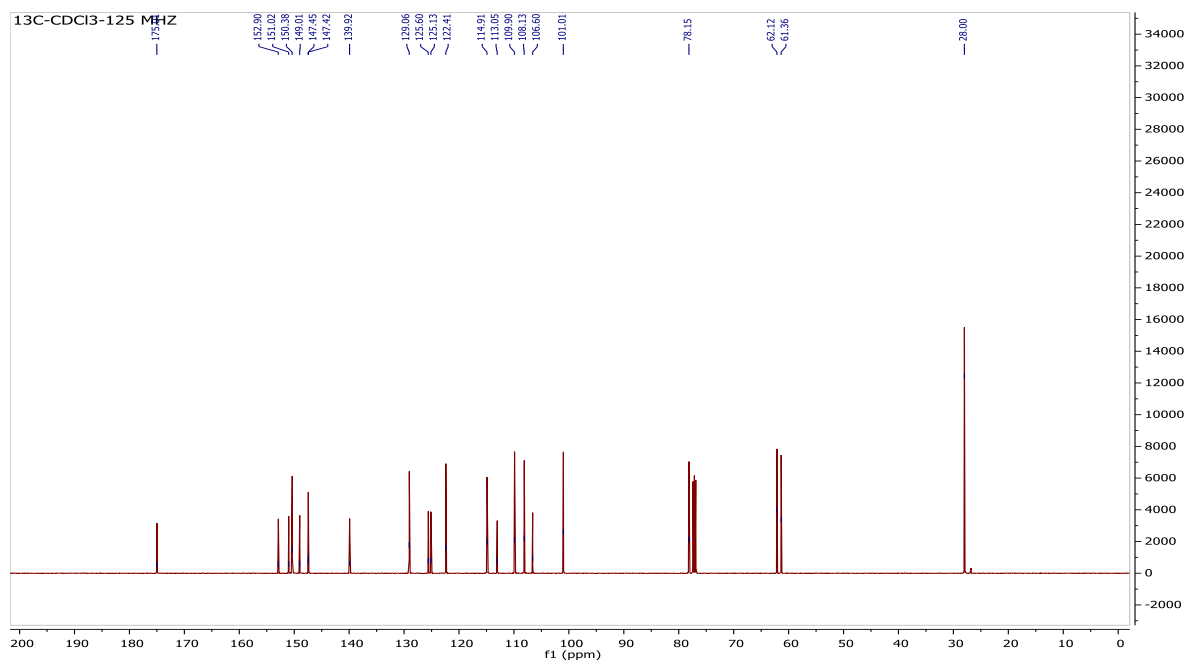


Figure S15 ^{13}C NMR spectrum of (3) observed at 125 MHz, CDCl_3 solvent at 250C.

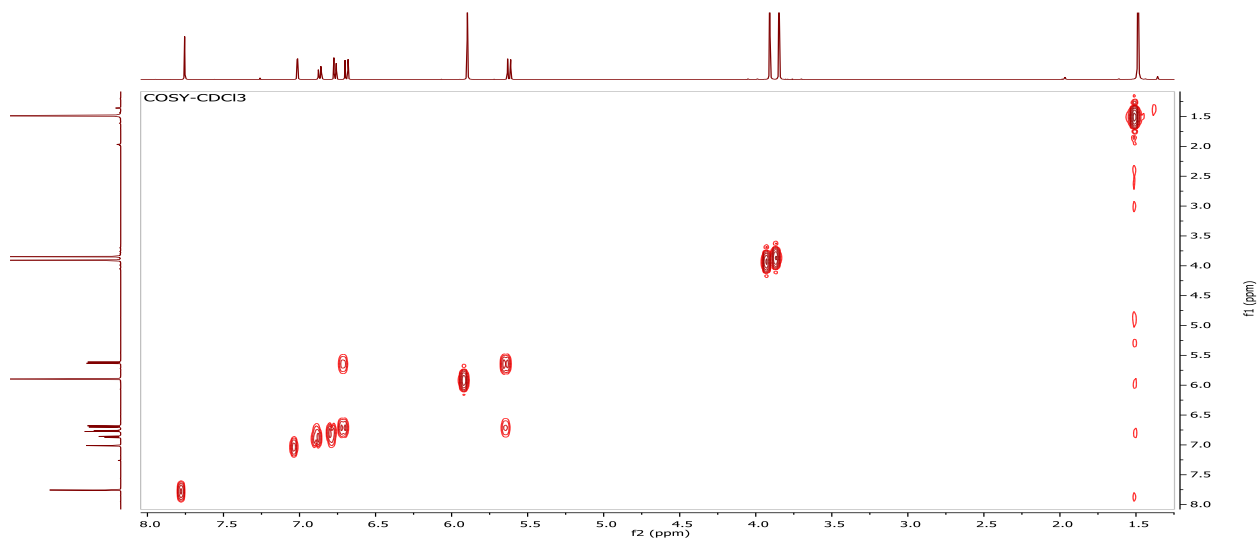


Figure S16 COSY (3) observed at 500 MHz for CDCl_3 solvent at 25 $^{\circ}\text{C}$

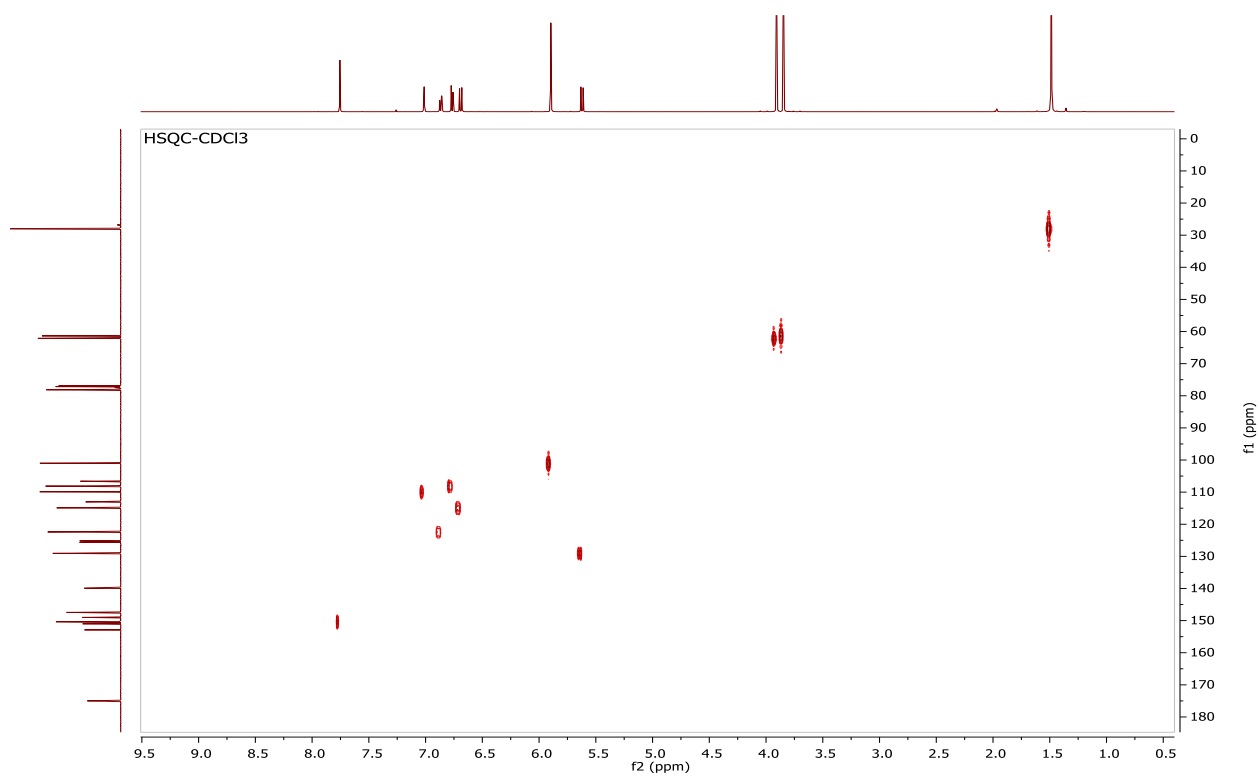


Figure S17 HSQC spectrum of (3) observed at 500 MHz and 125 MHz for CDCl_3 solvent at 25°C .

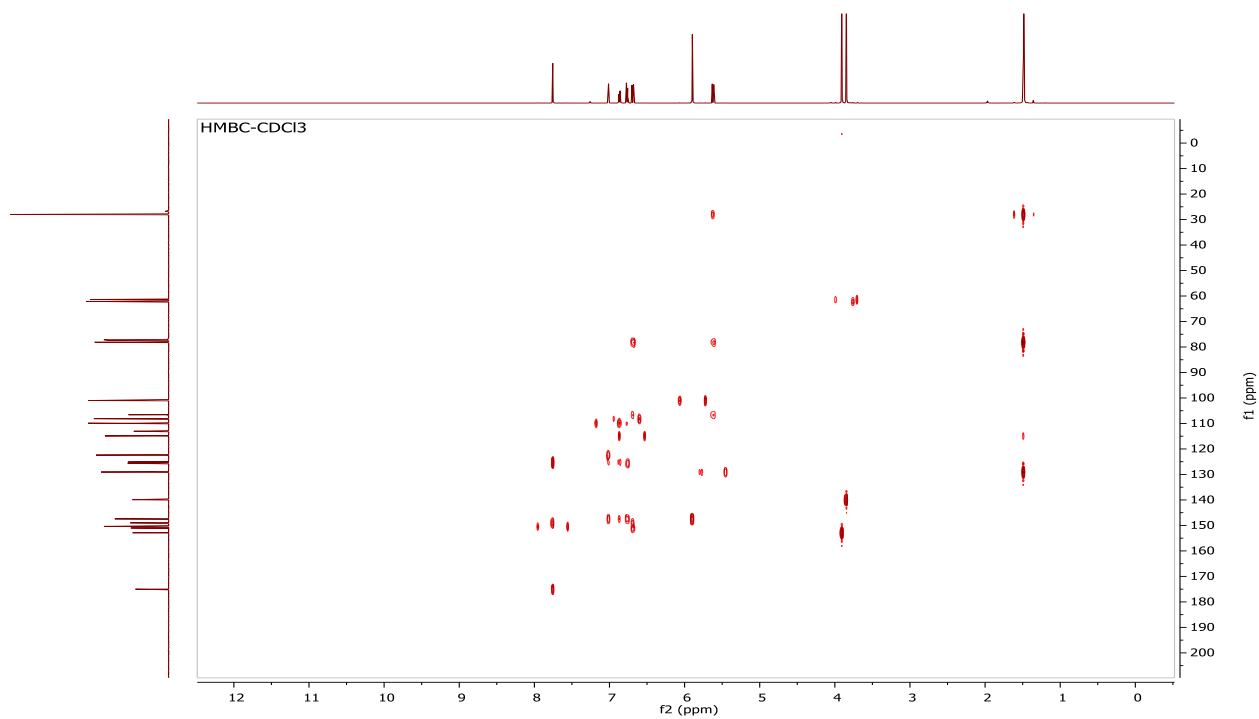


Figure S18 HMBC spectrum of (3) observed at 500 MHz and 125 MHz for CDCl_3 solvent at 25°C .

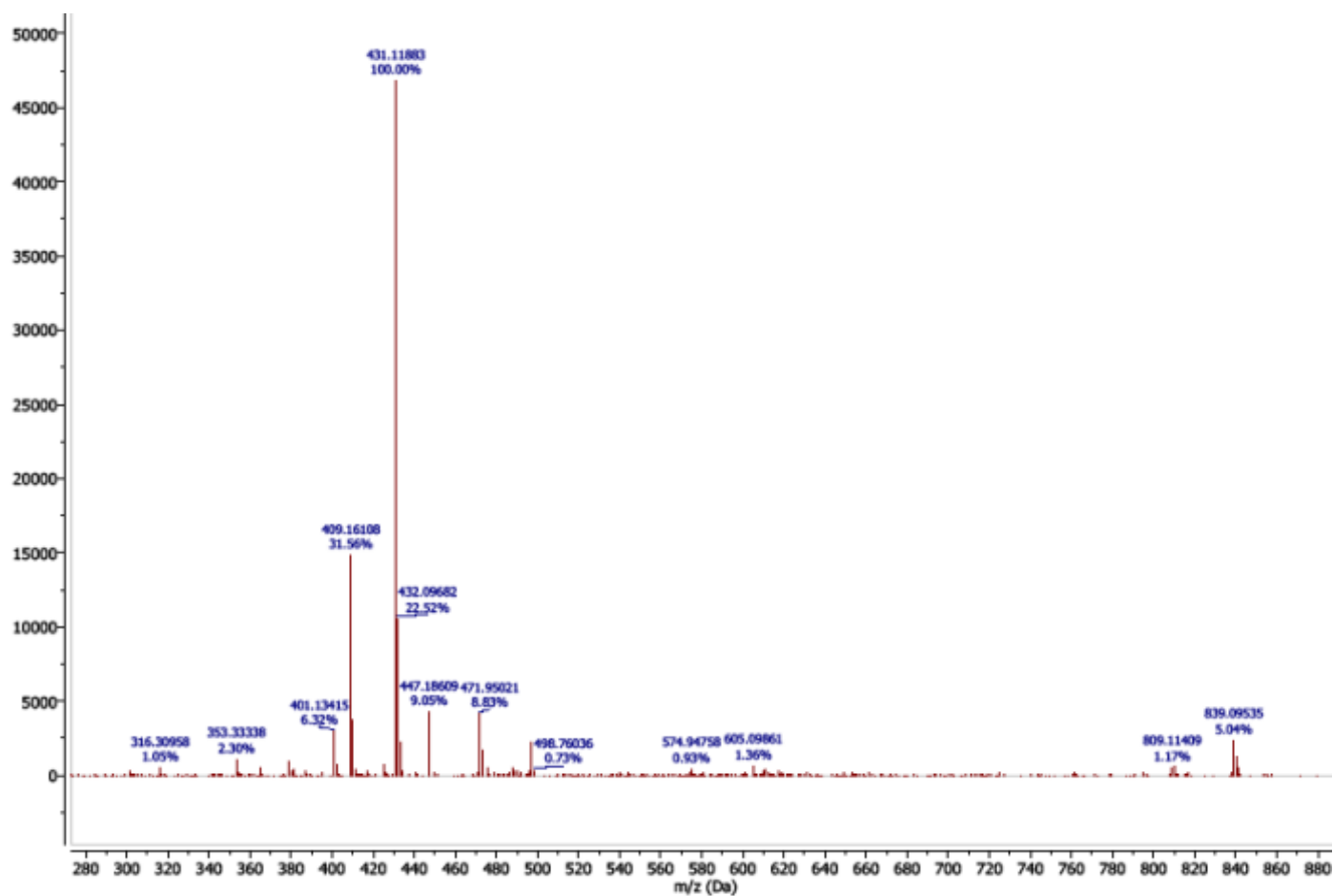


Figure S19 The ESI-MS Spectrum of (3)

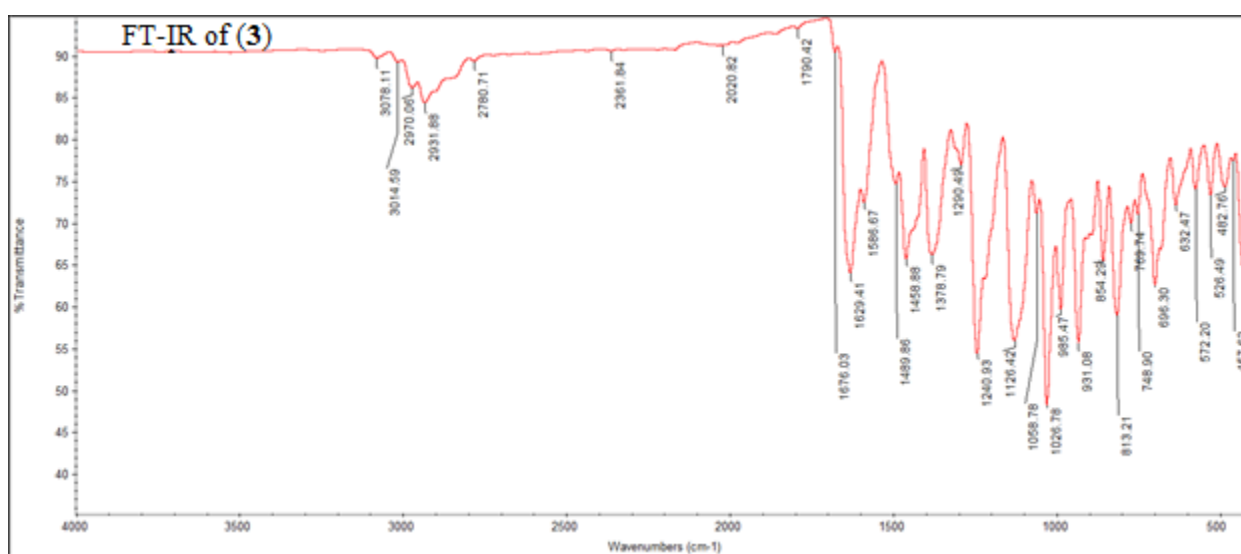


Figure S20 FT-IR spectra of compound (3)

4. Spectra Data of Compound 4

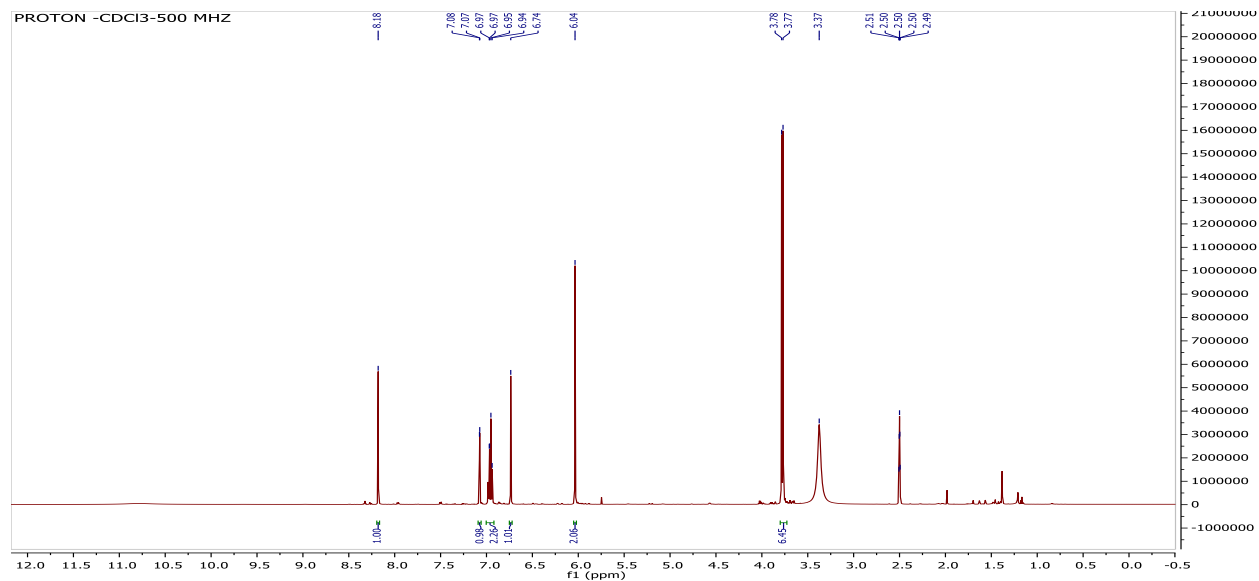


Figure S21 ¹H NMR spectrum of (4) observed at 500 MHz for CDCl₃ solvent at 25 °C

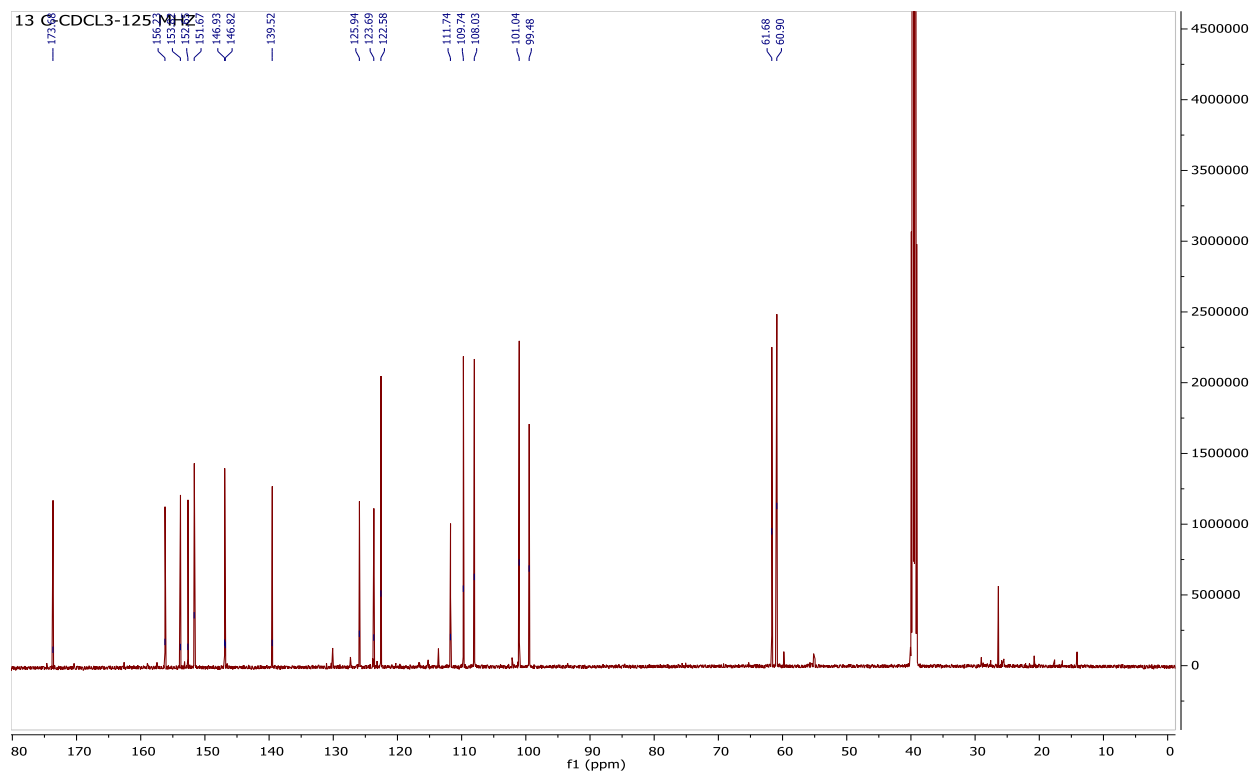


Figure S22 ^{13}C NMR spectrum of (4) observed at 125 MHz for CDCl_3 solvent at 25°C .

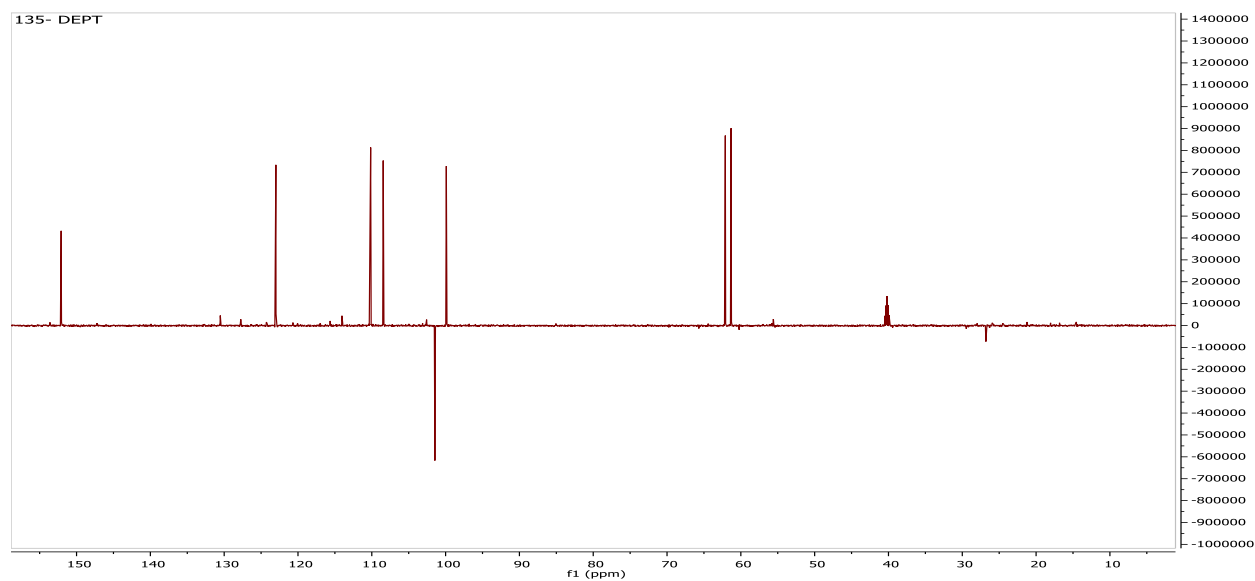


Figure S23 $^{135}\text{DEPT}$ (4) observed at 125 MHz for CDCl_3 solvent at 25°C .

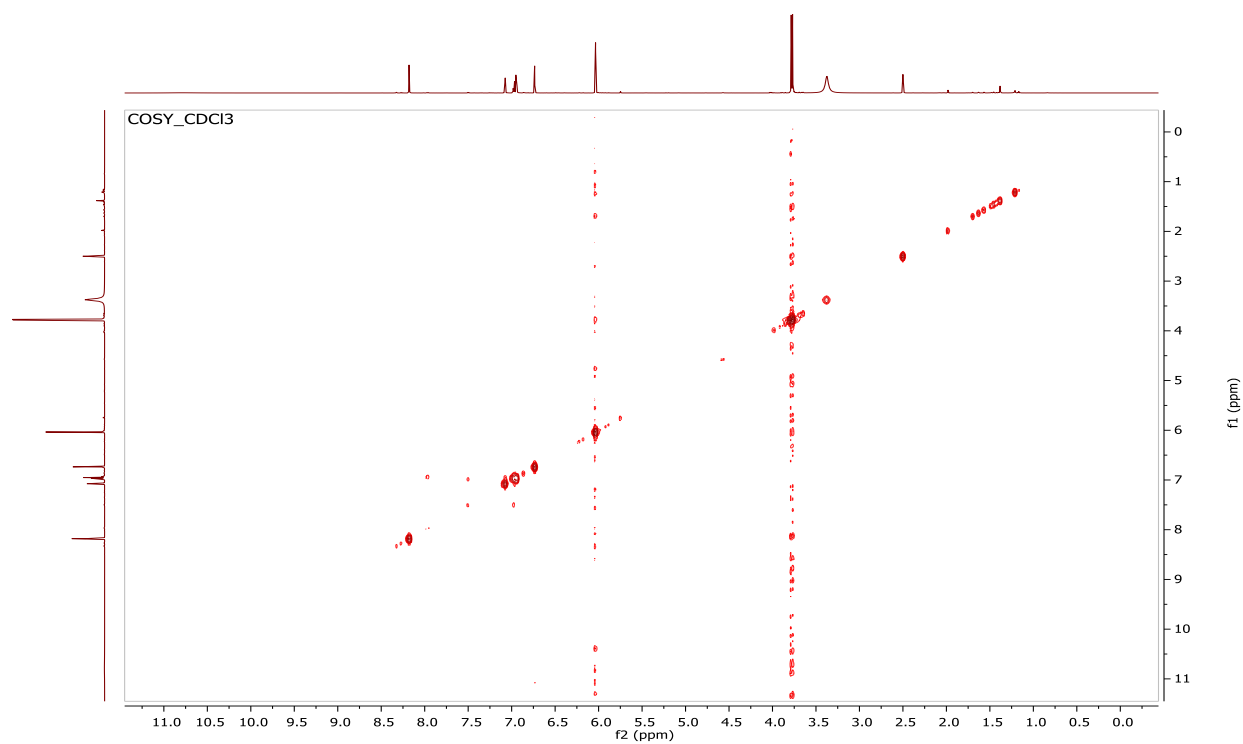


Figure S24 COSY spectrum of (4) observed at 500 MHz for CDCl₃ solvent at 25⁰C.

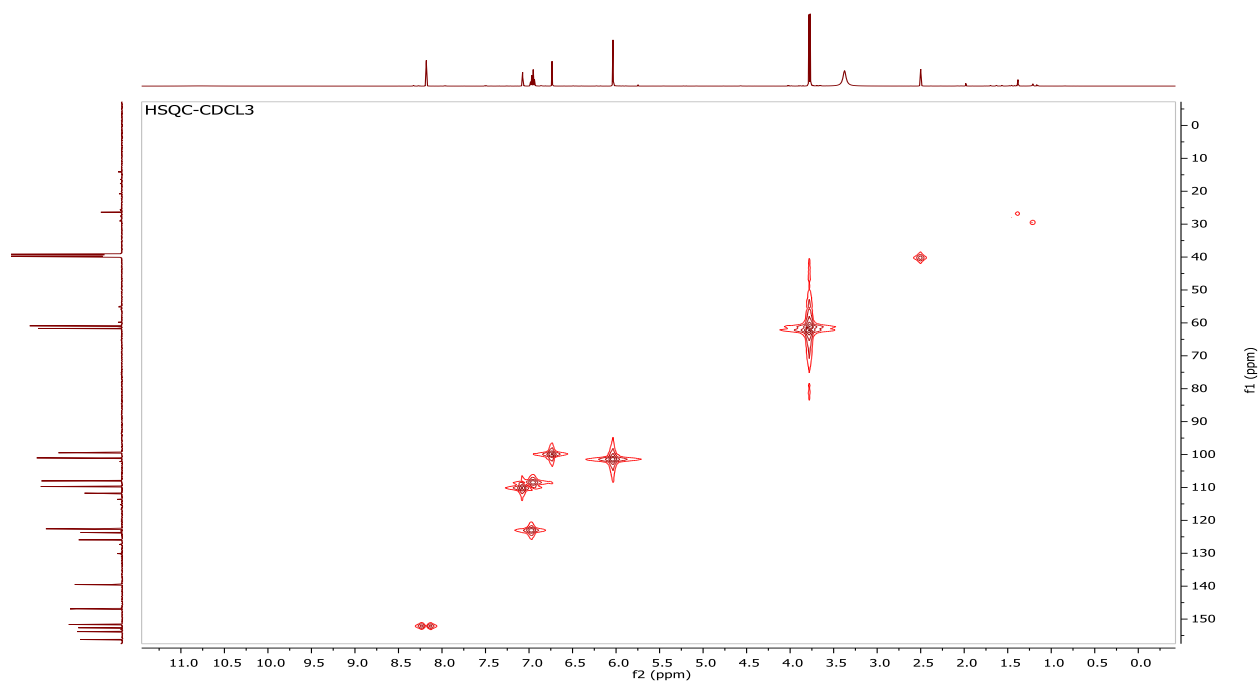


Figure S25 HSQC spectrum of (4) observed at 500 MHz and 125MHz for CDCl₃ solvent

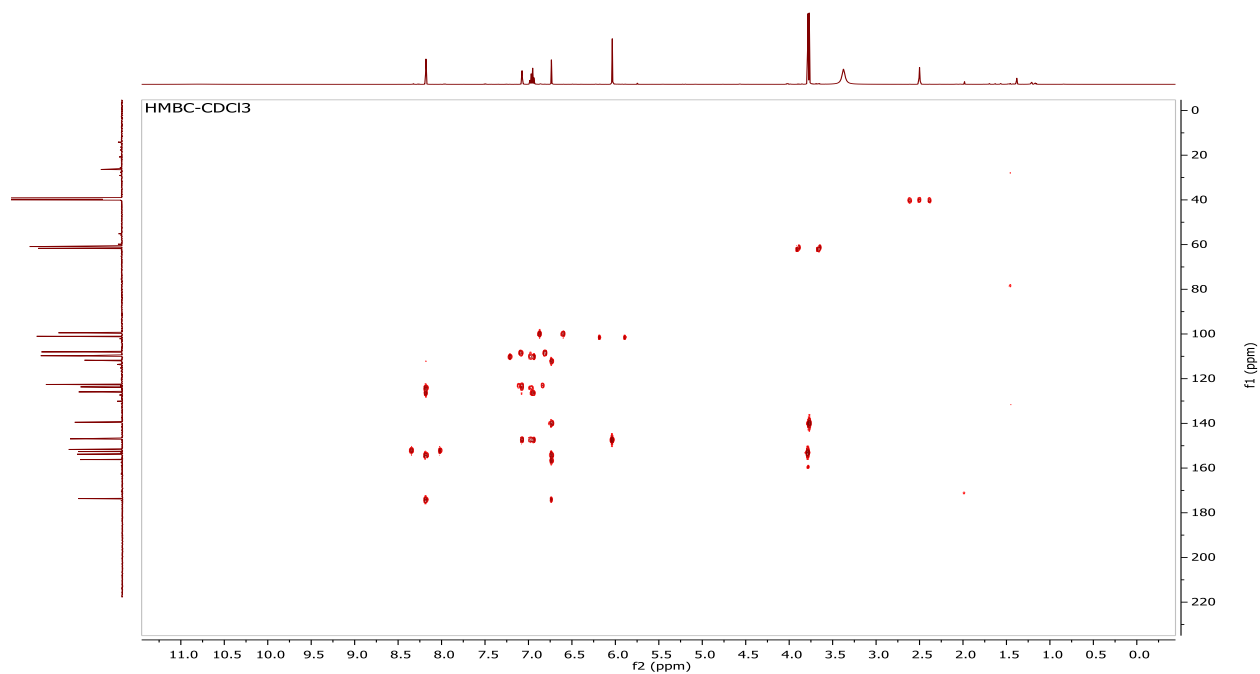


Figure S26 HMBC spectrum of (4) observed at 500 MHz and 125MHz for CDCl₃ solvent

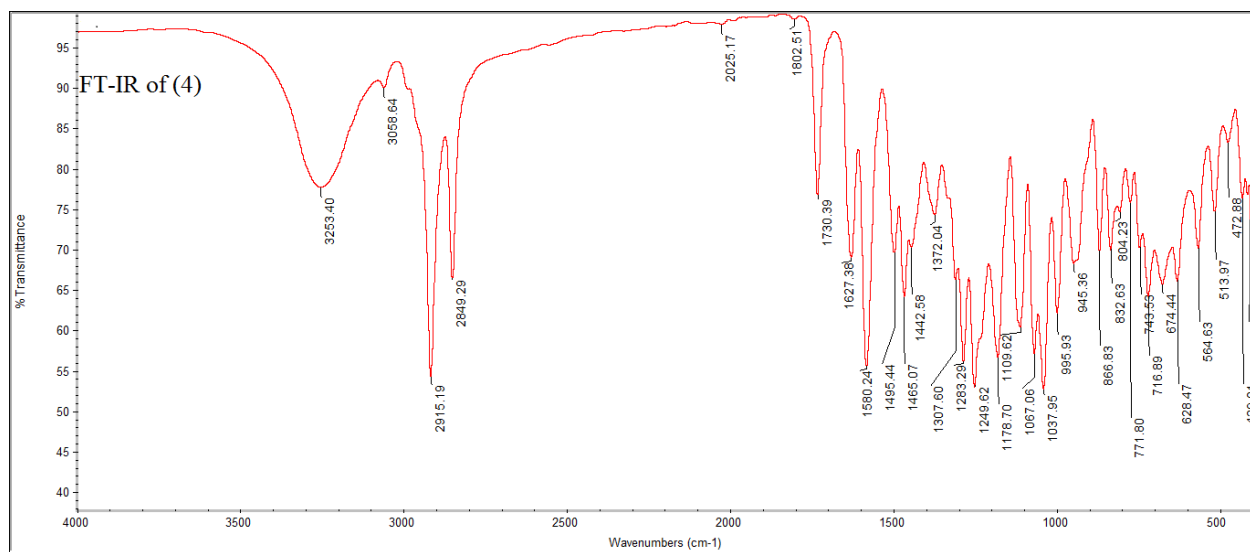


Figure S27 FT-IR spectra of compound of (4)

5. Spectroscopic Data For compounds 5

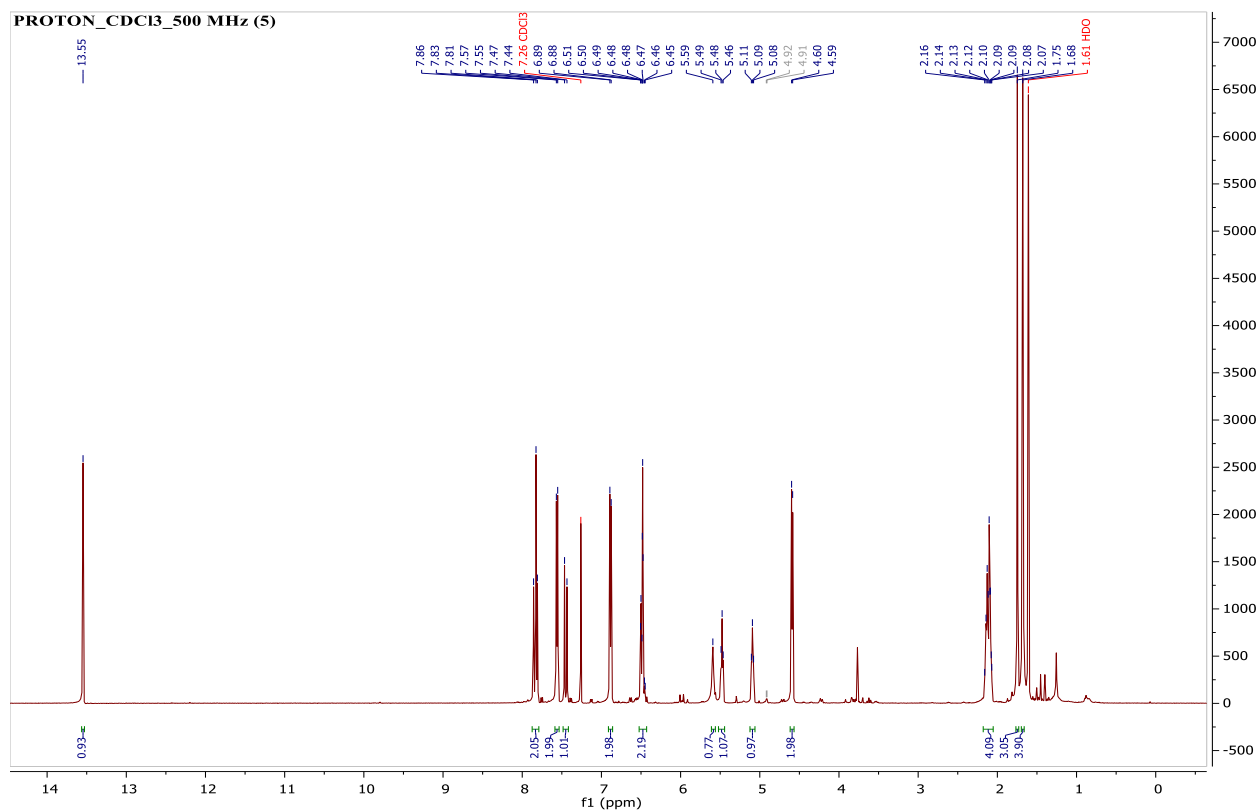


Figure S28 ¹H NMR spectrum of (5) observed at 500 MHz for CDCl₃ solvent at 25⁰C.

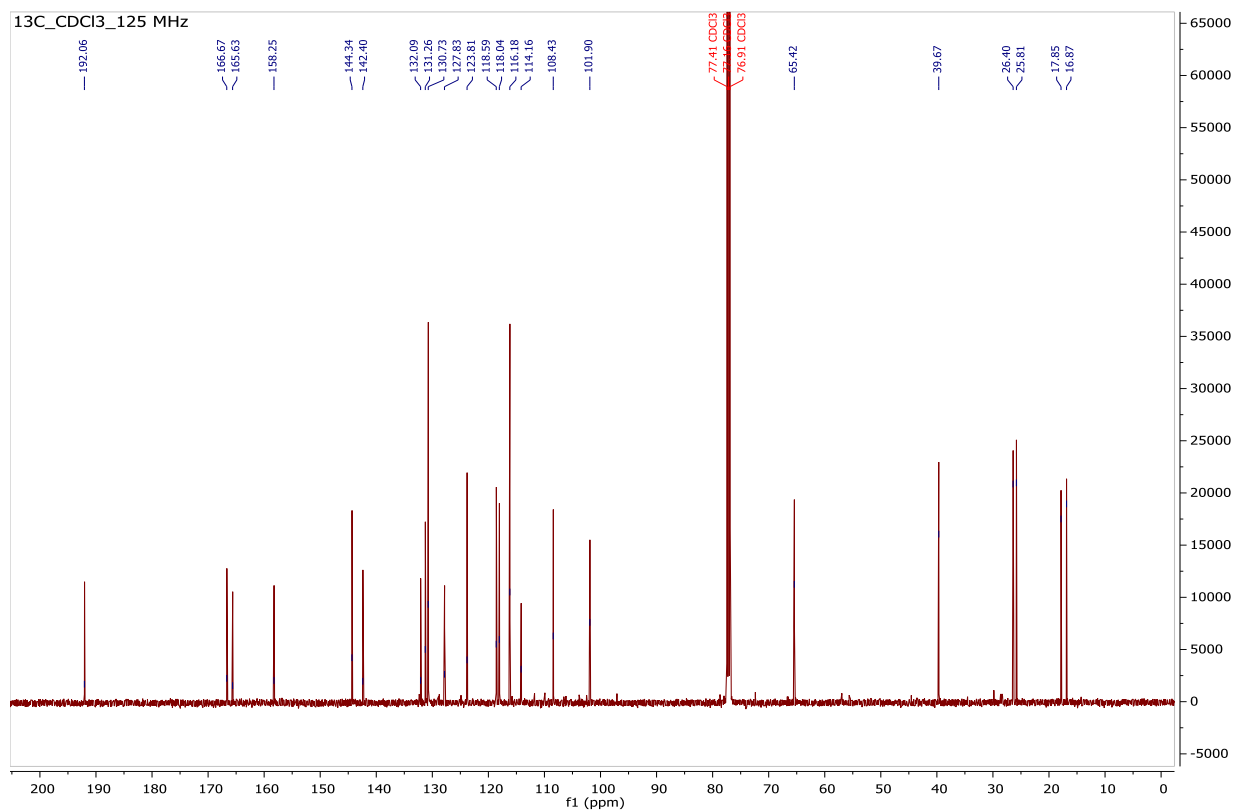


Figure S29 ¹³C NMR spectrum of (5) observed at 125 MHz for CDCl₃ solvent at 25⁰C .

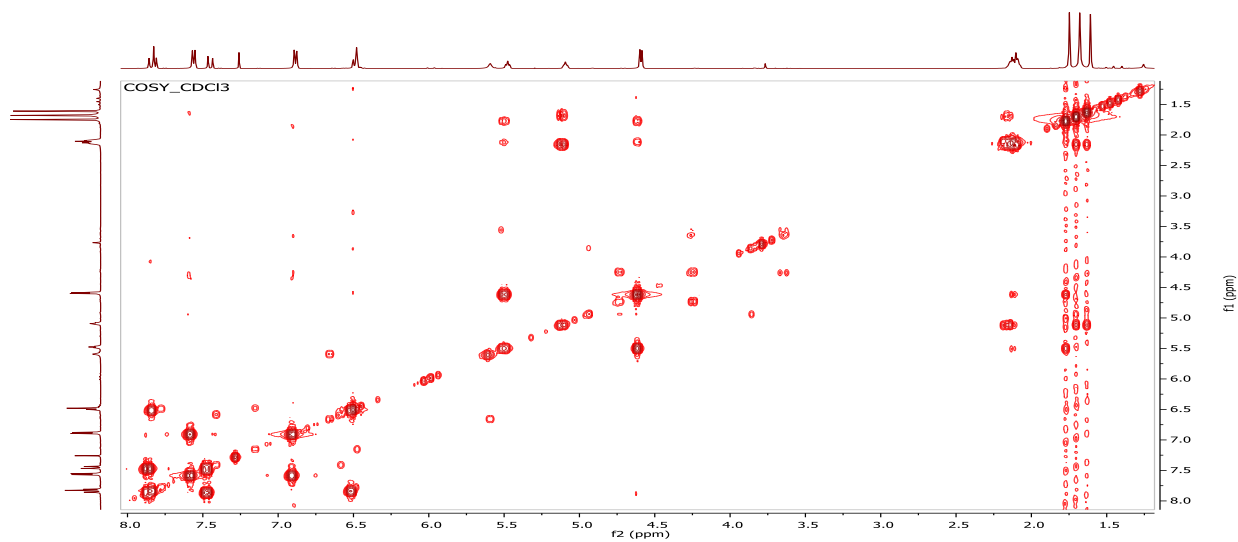


Figure S30 COSY spectrum of (5) observed at 500 MHz for CDCl₃ solvent at 25⁰C.

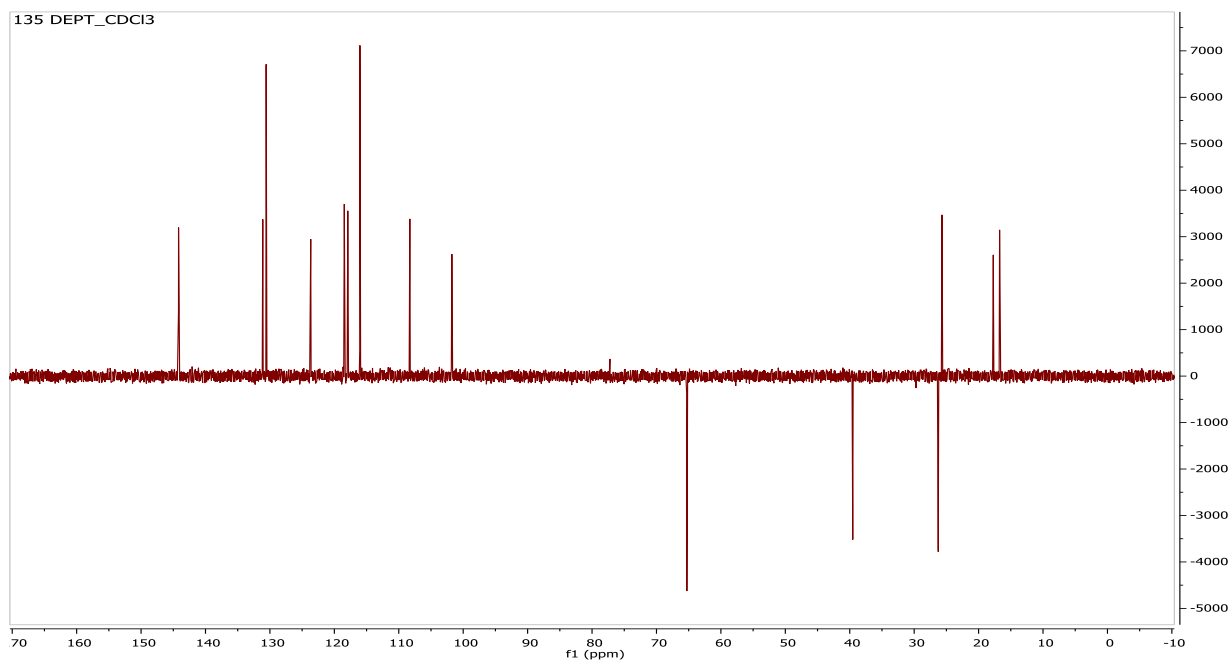


Figure S31 135 DEPT (5) observed at 125 MHz for CDCl_3 solvent at 25°C .

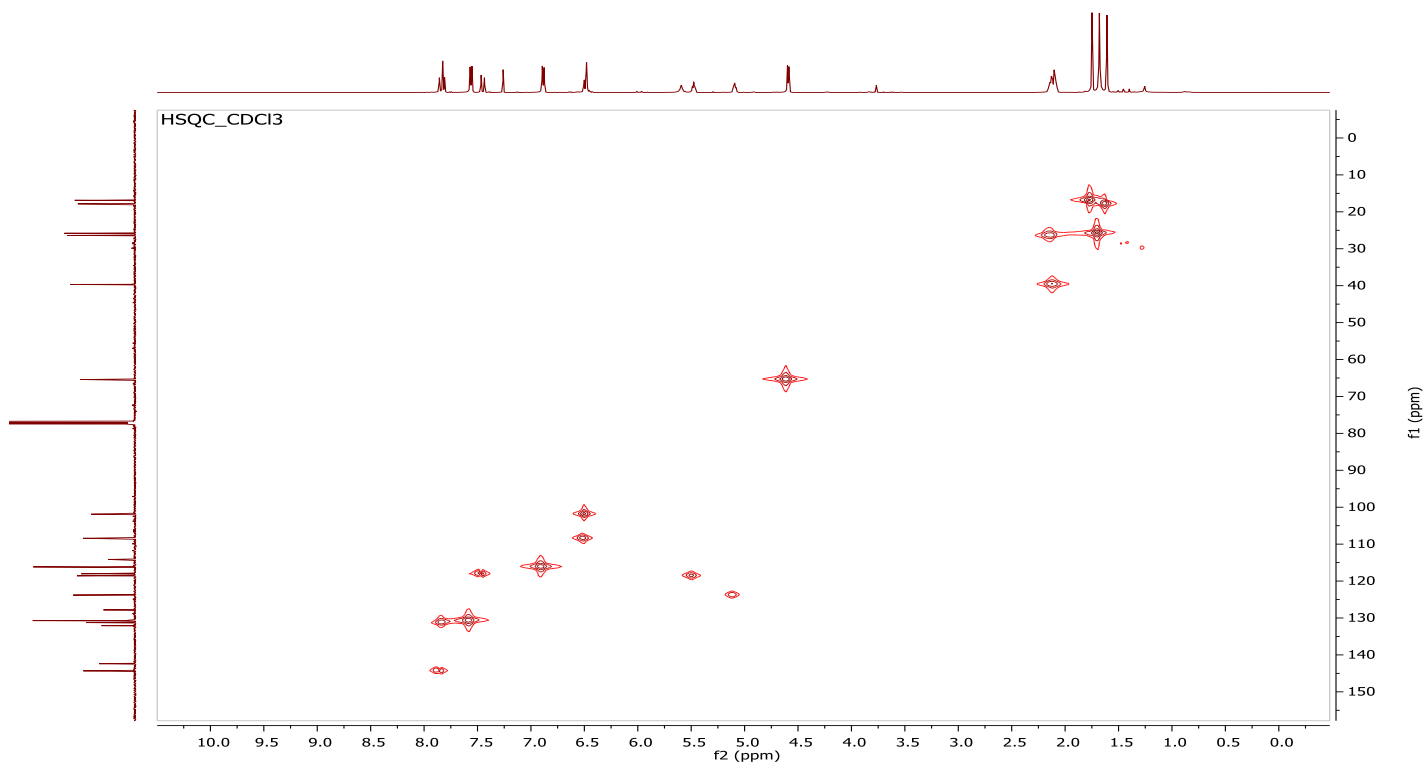


Figure S32 HSQC spectrum of (5) observed at 500 MHz and 125MHz for CDCl_3 solvent at 25°C .

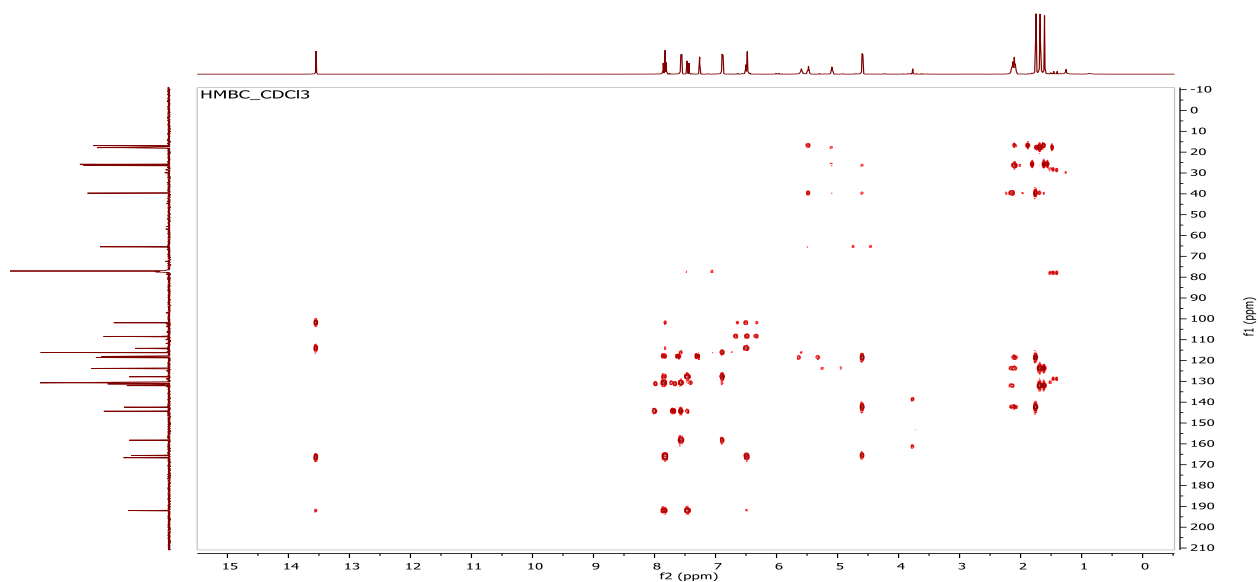


Figure S33 HMBC spectrum of (5) observed at 500 MHz and 125 MHz for CDCl_3 solvent

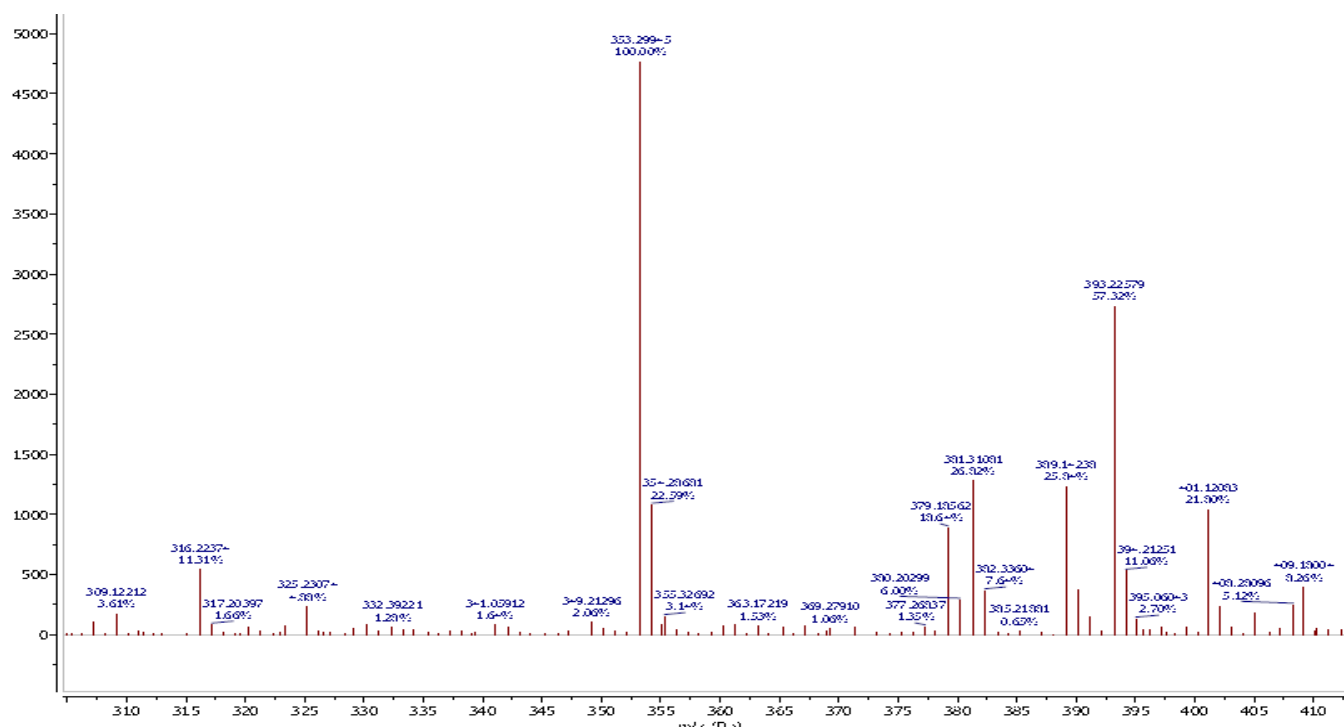


Figure S34 The ESI-MS Spectrum of (5)

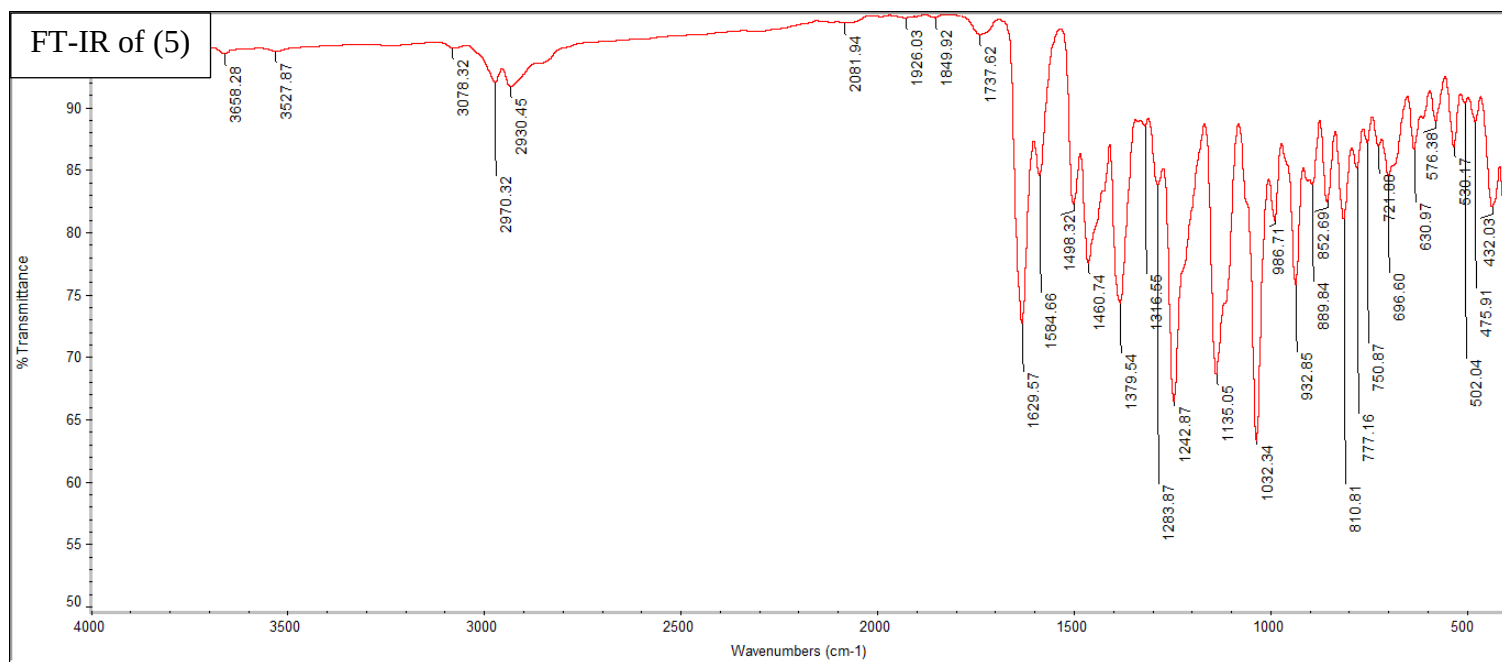


Figure S35 FT-IR spectra of compound of (5)

6. Spectra Data of Compound 6

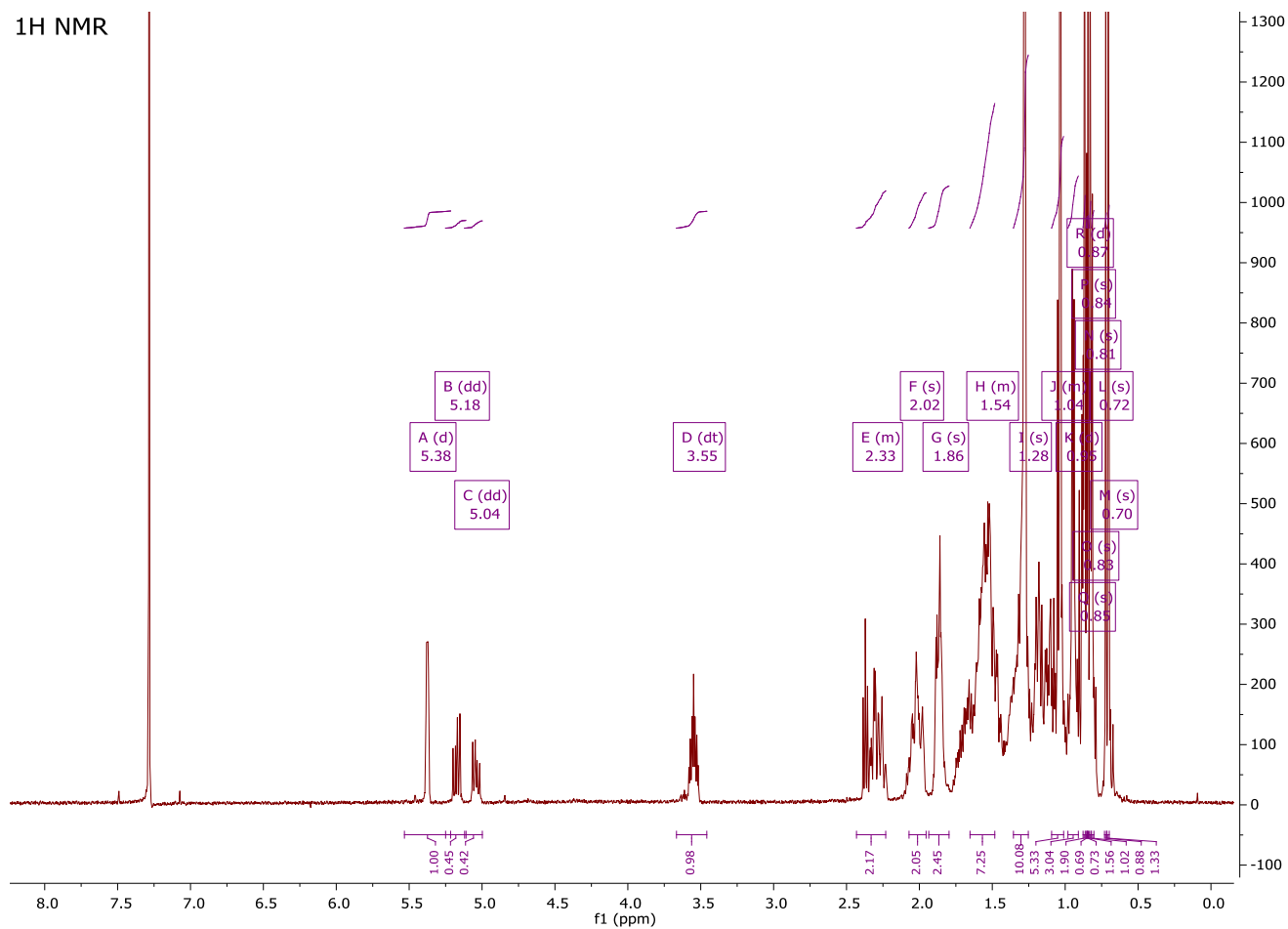


Figure S36 ¹H NMR spectrum of (6) observed at 500 MHz for CDCl₃ solvent at 25⁰C.

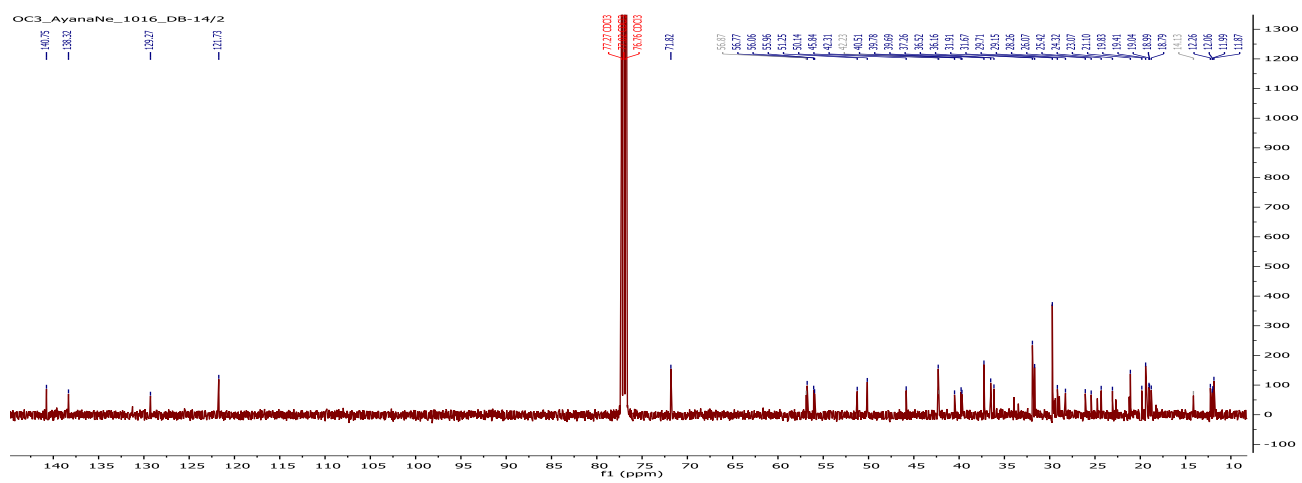


Figure S37 ¹³C NMR spectrum of (6) observed at 125 MHz for CDCl₃ solvent at 25⁰C.

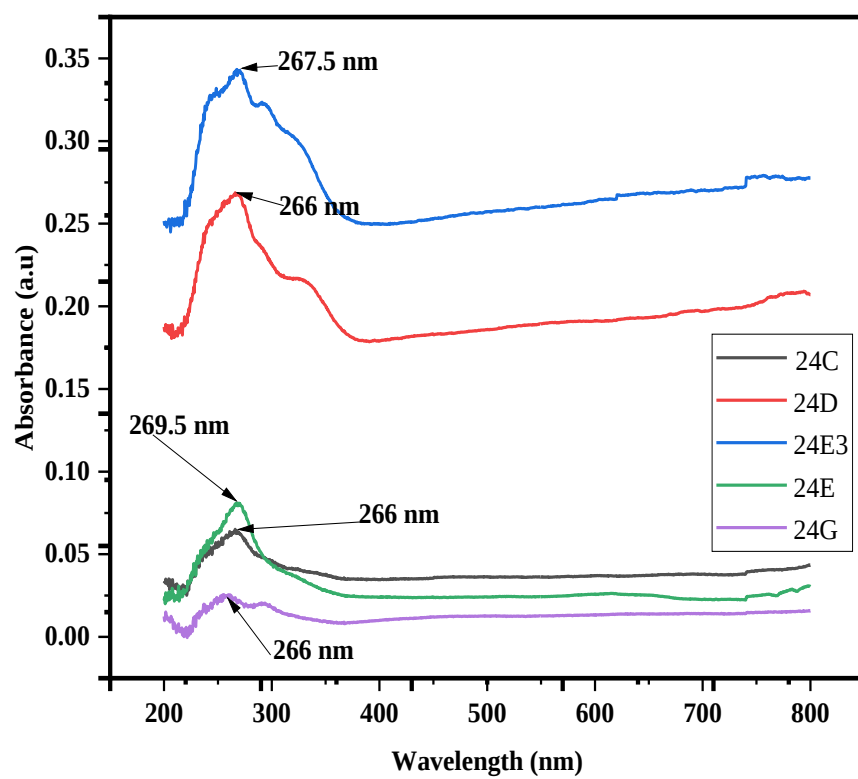


Figure S38 UV spectra of compound of (1-5)