



Supporting Information

for

Two antibacterial and PPAR α / γ -agonistic unsaturated keto fatty acids from a coral-associated actinomycete of the genus *Micrococcus*

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ESIMS-TOF, UV, IR, 1D, and 2D NMR spectra of 1 and 2

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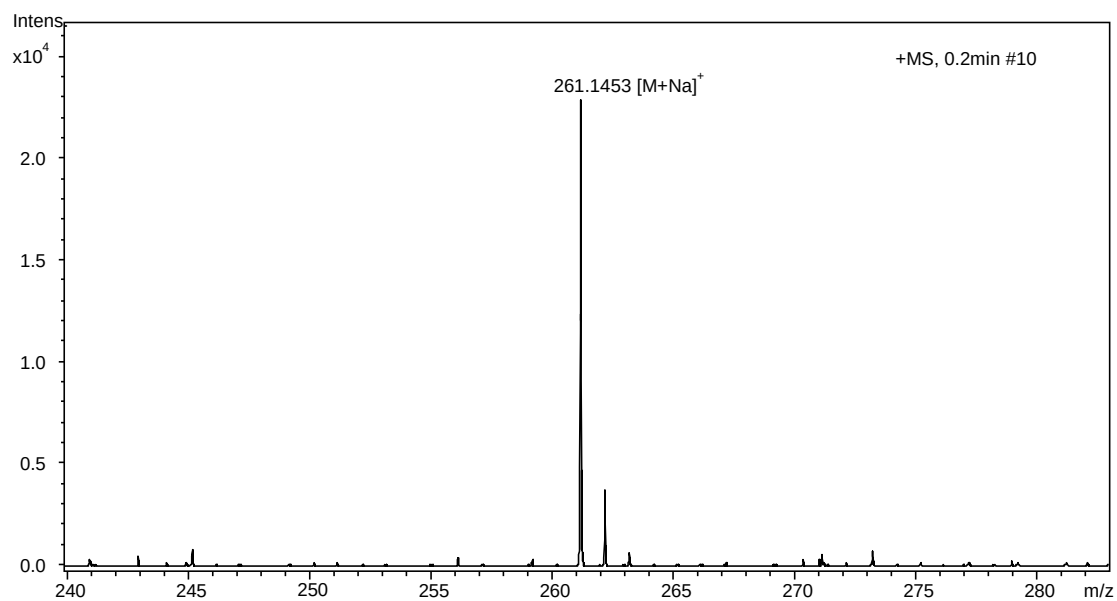
Figure S12: DEPT135 spectrum of **2** (125 MHz, CDCl_3)

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(a)



(b)

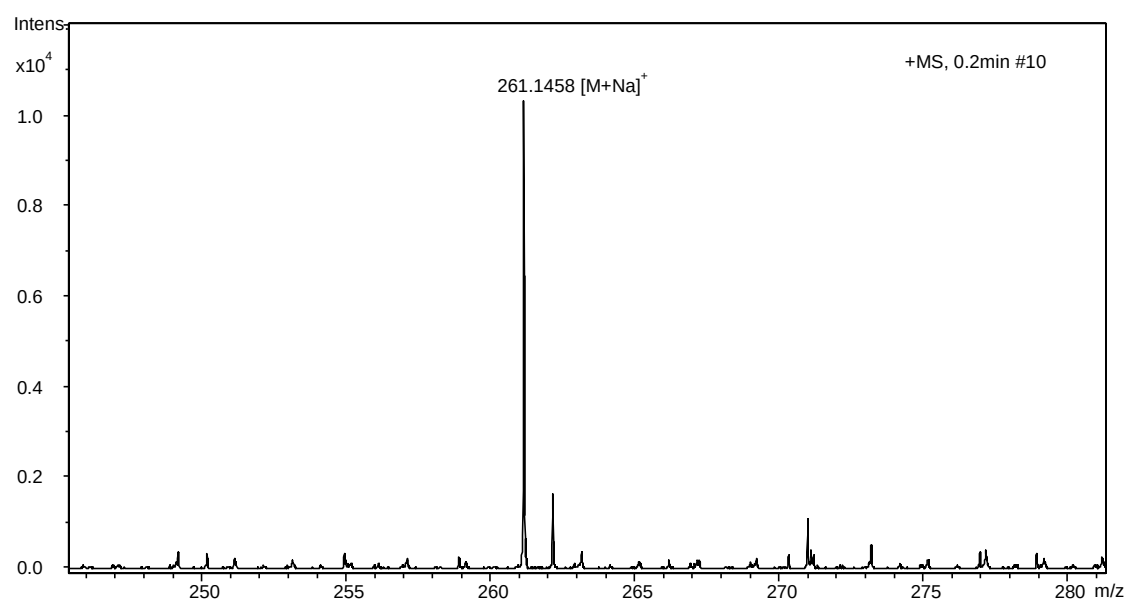
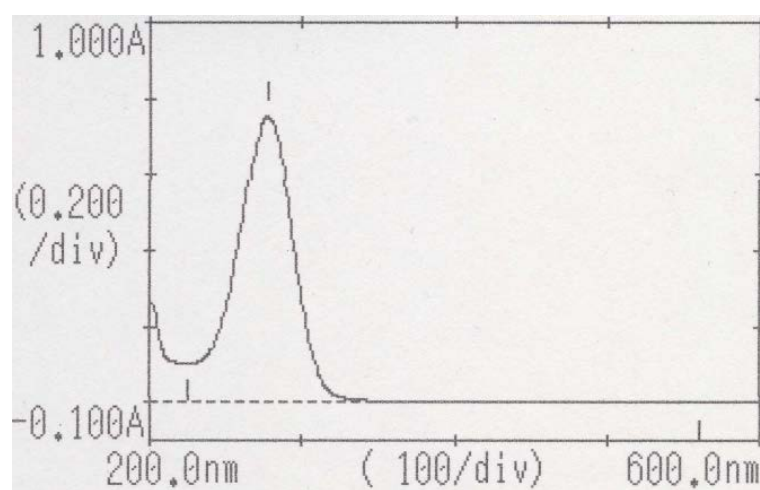


Figure S1: High resolution ESI-TOF mass spectra of (a) (6*E*,8*Z*)-5-oxo-6,8-tetradecadienoic acid (**1**) and (b) (6*E*,8*E*)-5-oxo-6,8-tetradecadienoic acid (**2**).

(a) **(1)** (MeOH)



(b) **(2)** MeOH

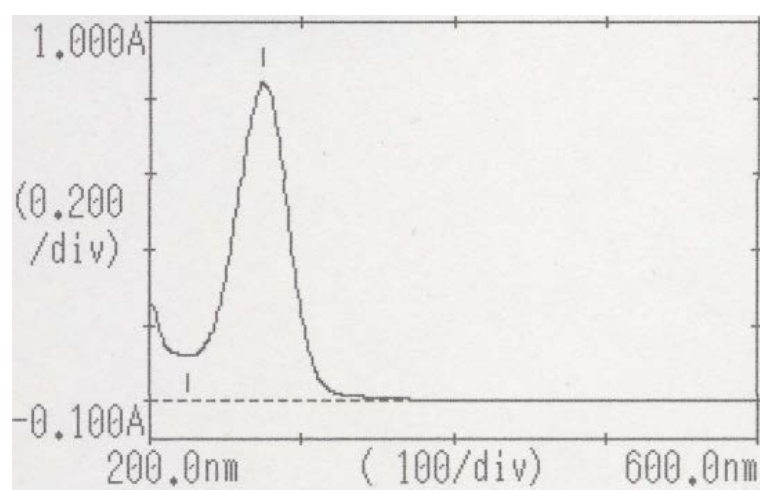
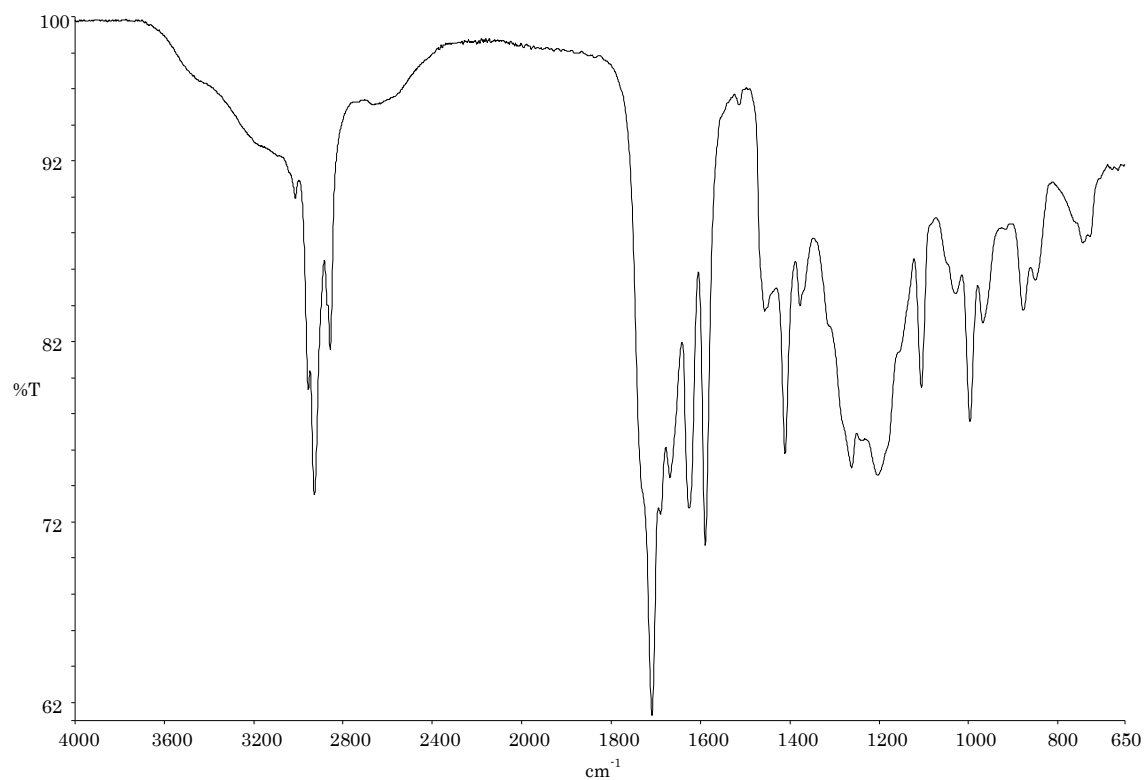


Figure S2: UV spectra of **1** and **2**.

(a) **1** (ATR)



(b) **2** (ATR)

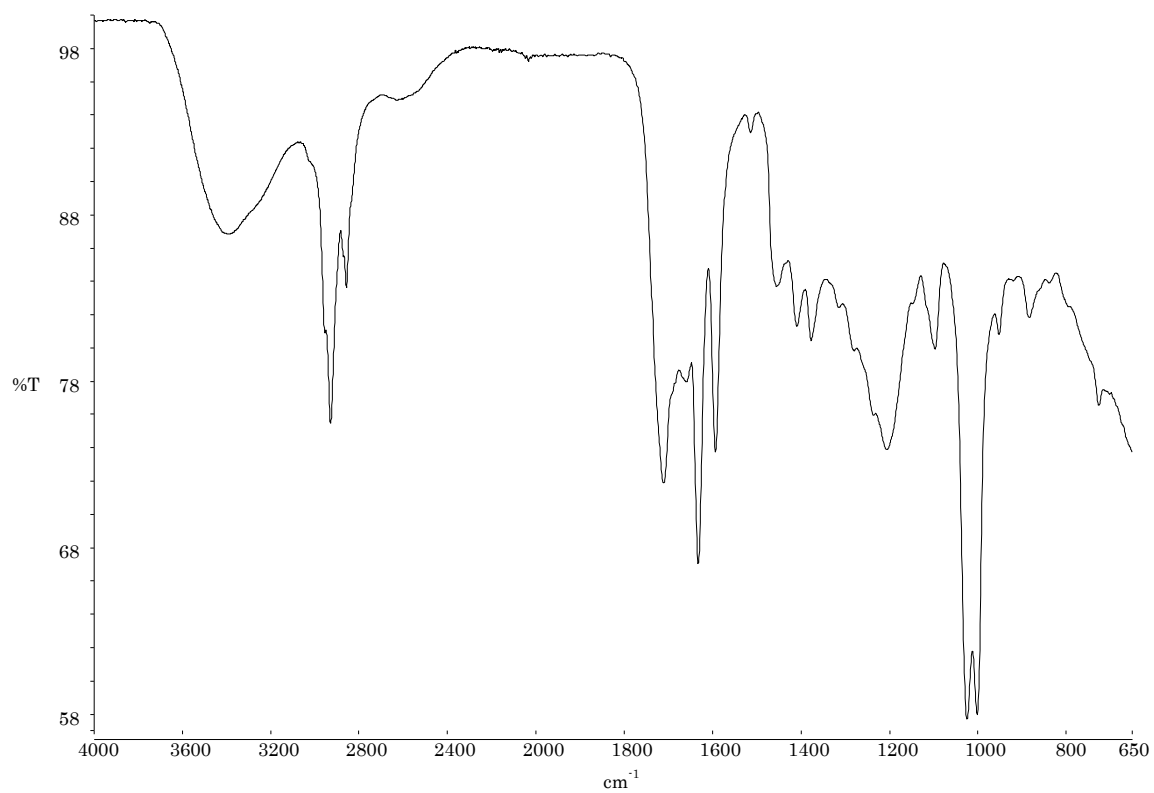


Figure S3: IR spectra of **1** and **2**.

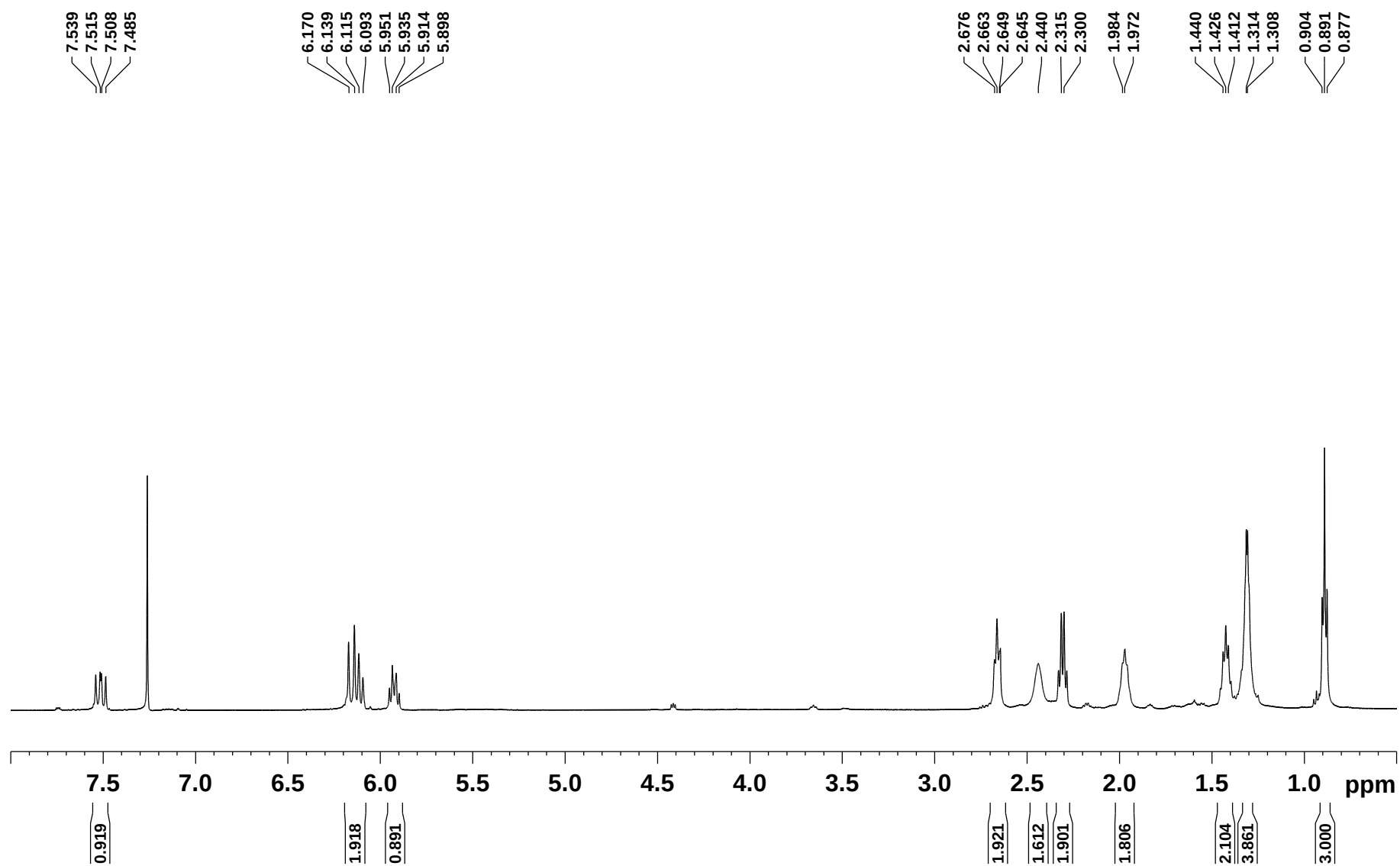


Figure S4: ^1H NMR spectrum of **1** (500 MHz, CDCl_3).

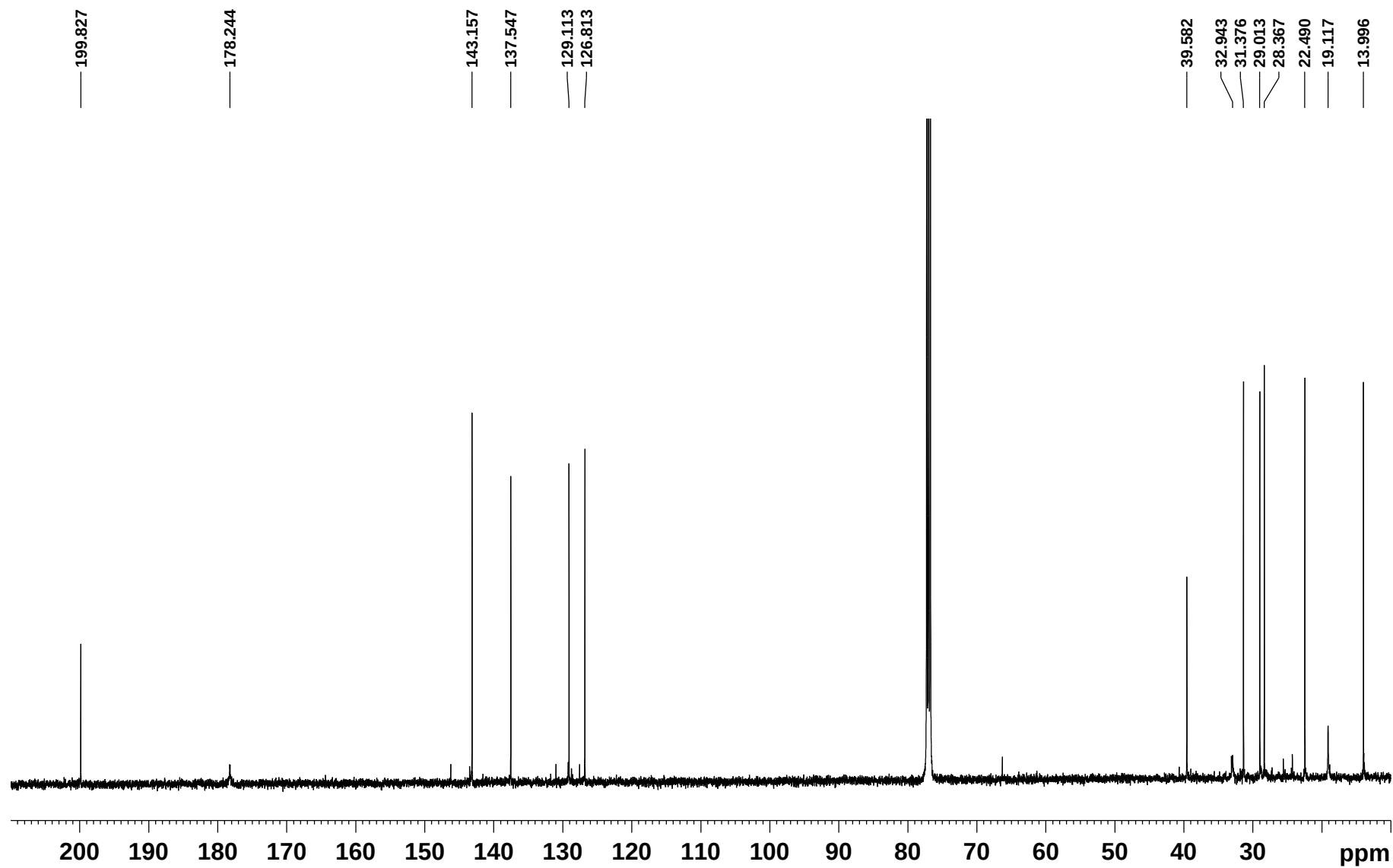


Figure S5: ^{13}C NMR spectrum of **1** (125 MHz, CDCl_3).

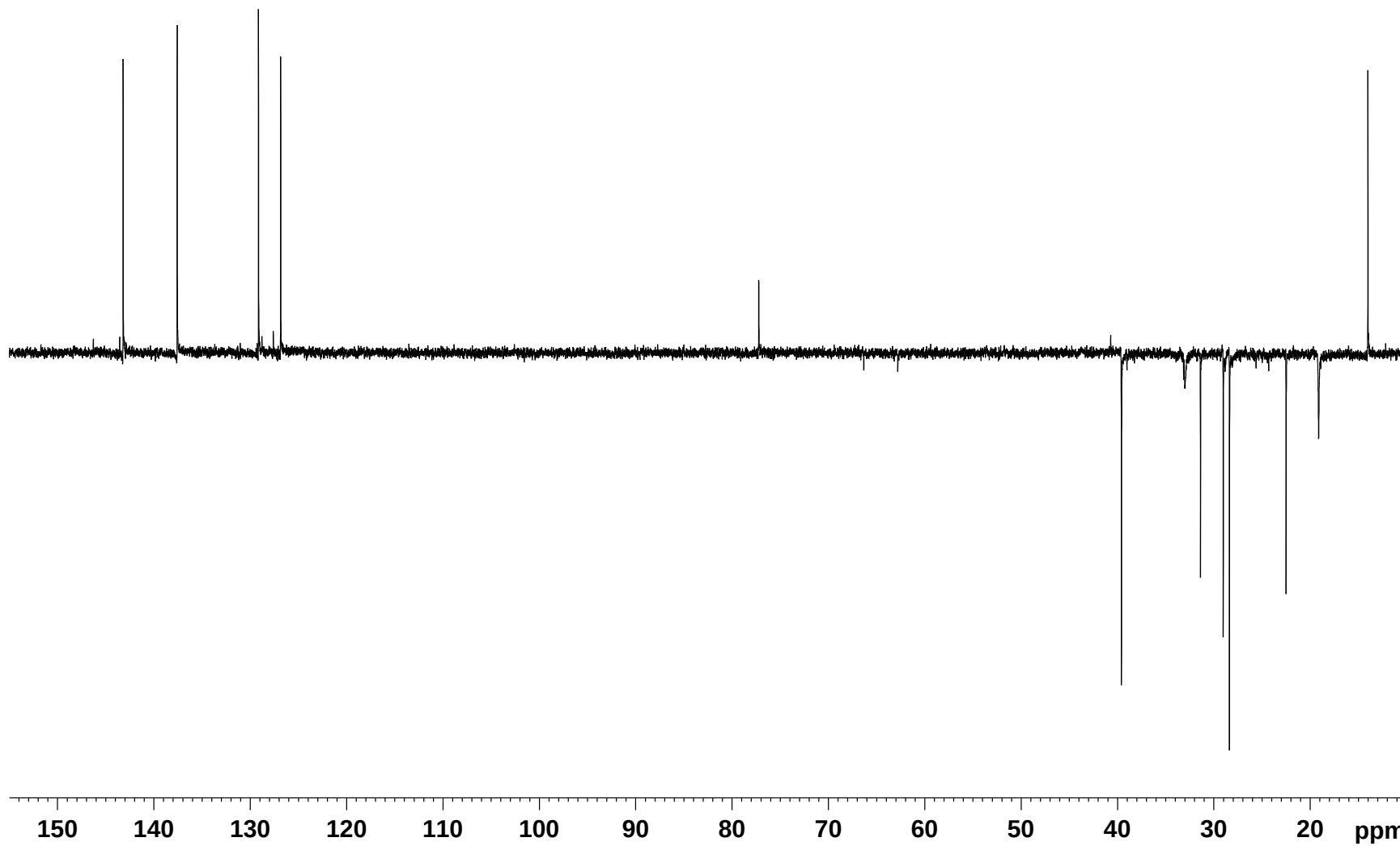


Figure S6: DEPT135 spectrum of **1** (125 MHz, CDCl₃).

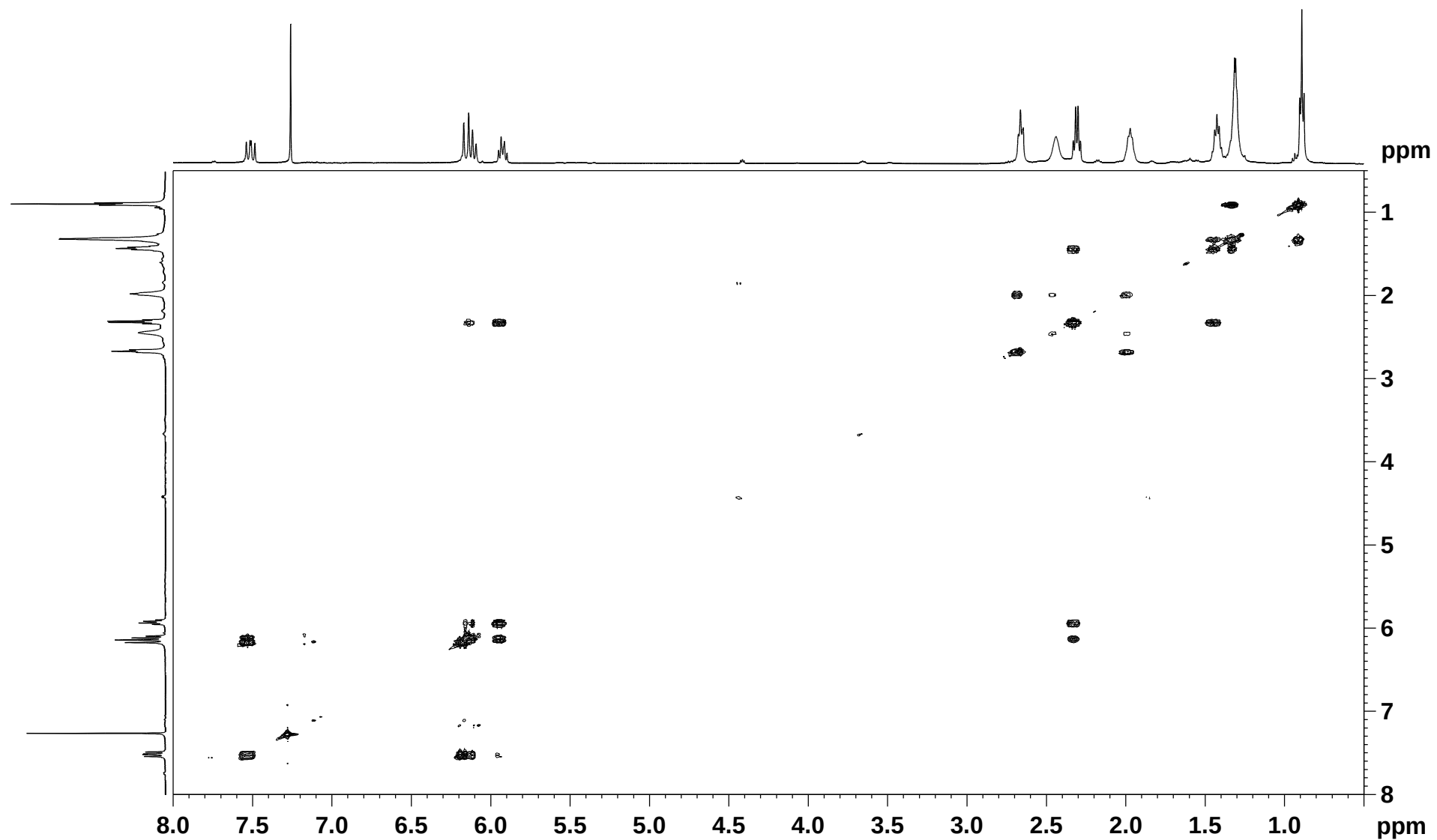


Figure S7: COSY spectrum of **1** (500 MHz, CDCl₃).

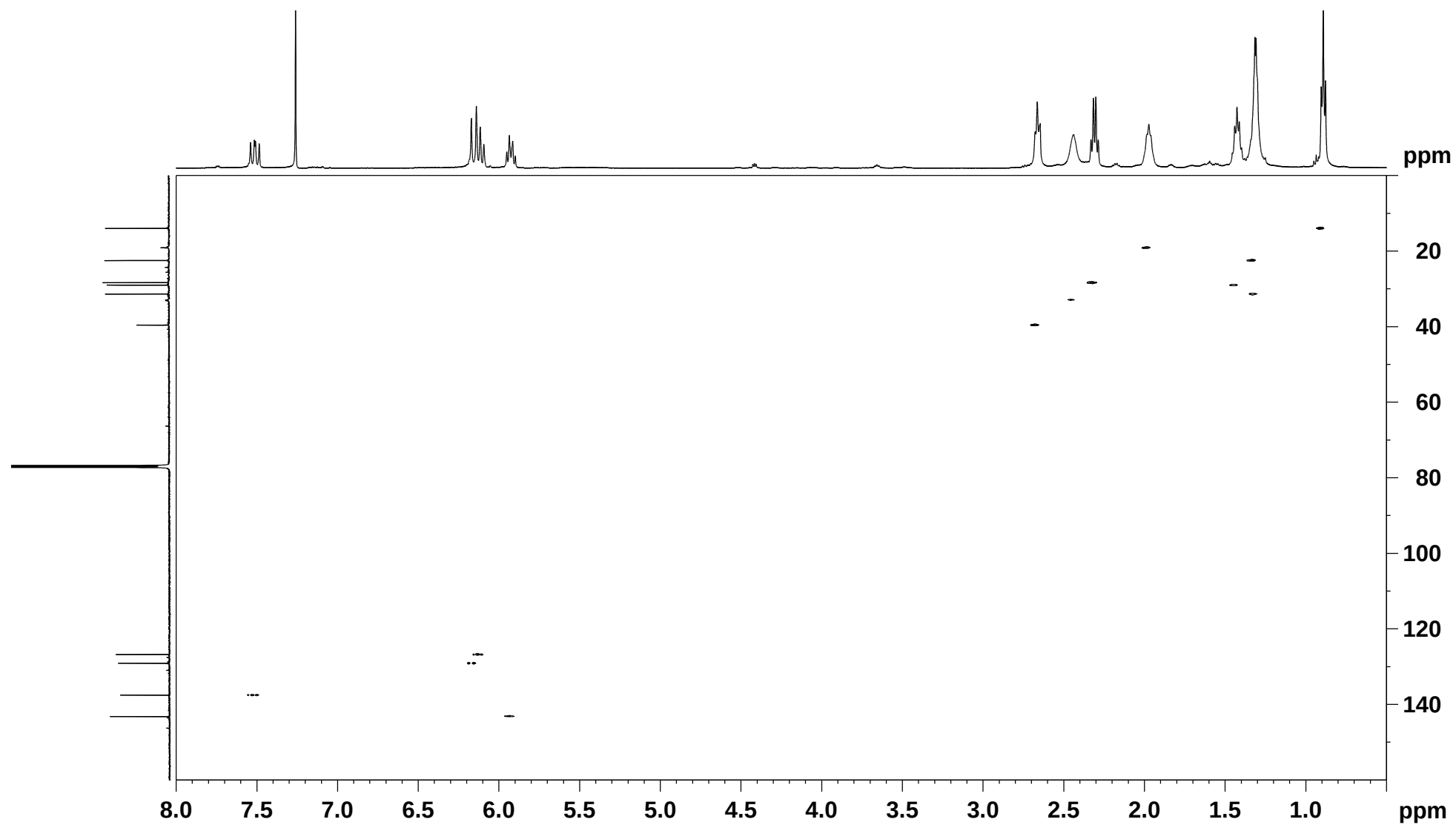


Figure S8: HSQC spectrum of **1** (500 MHz, CDCl_3).

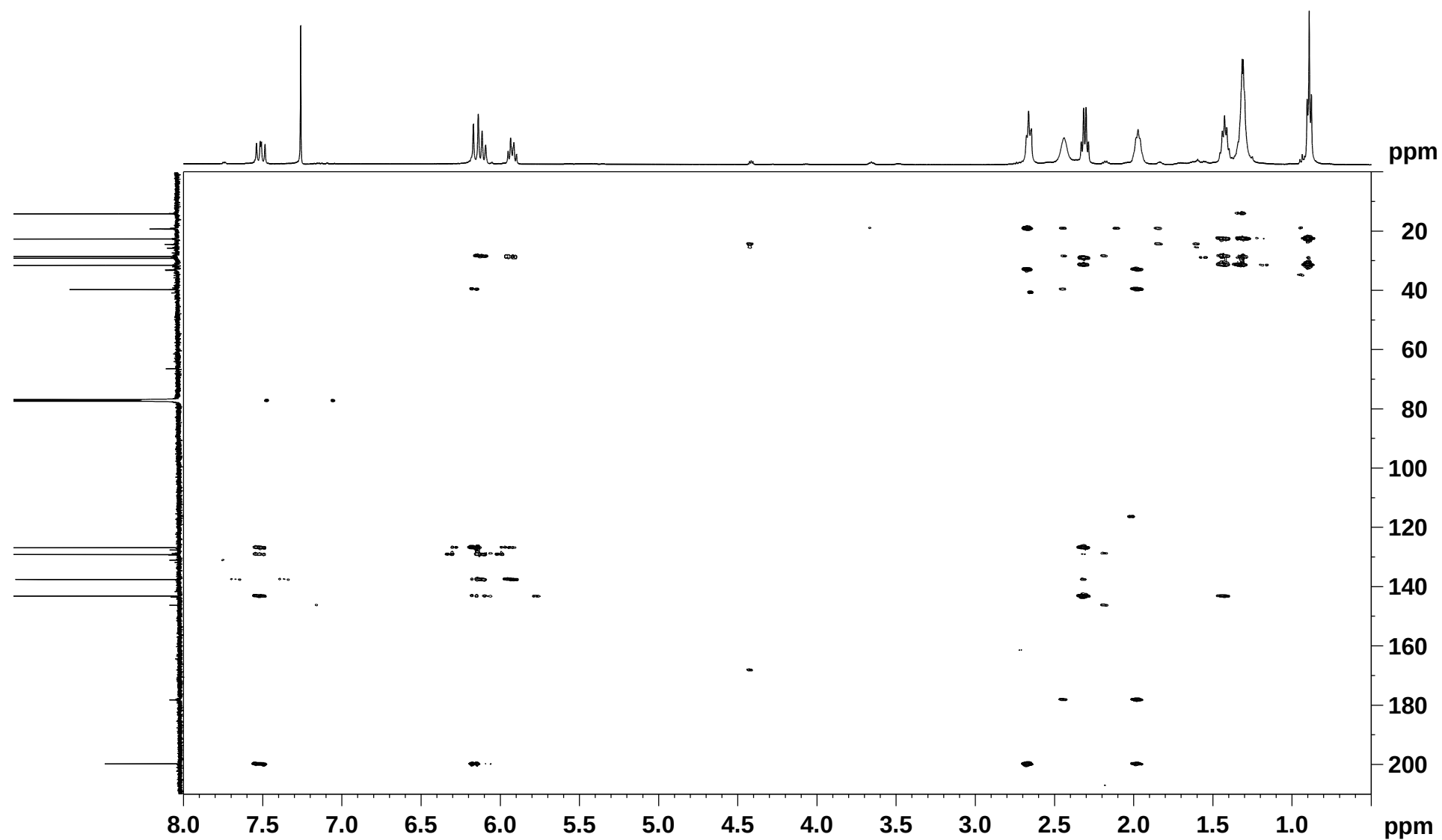


Figure S9: HMBC spectrum of **1** (500 MHz, CDCl_3).

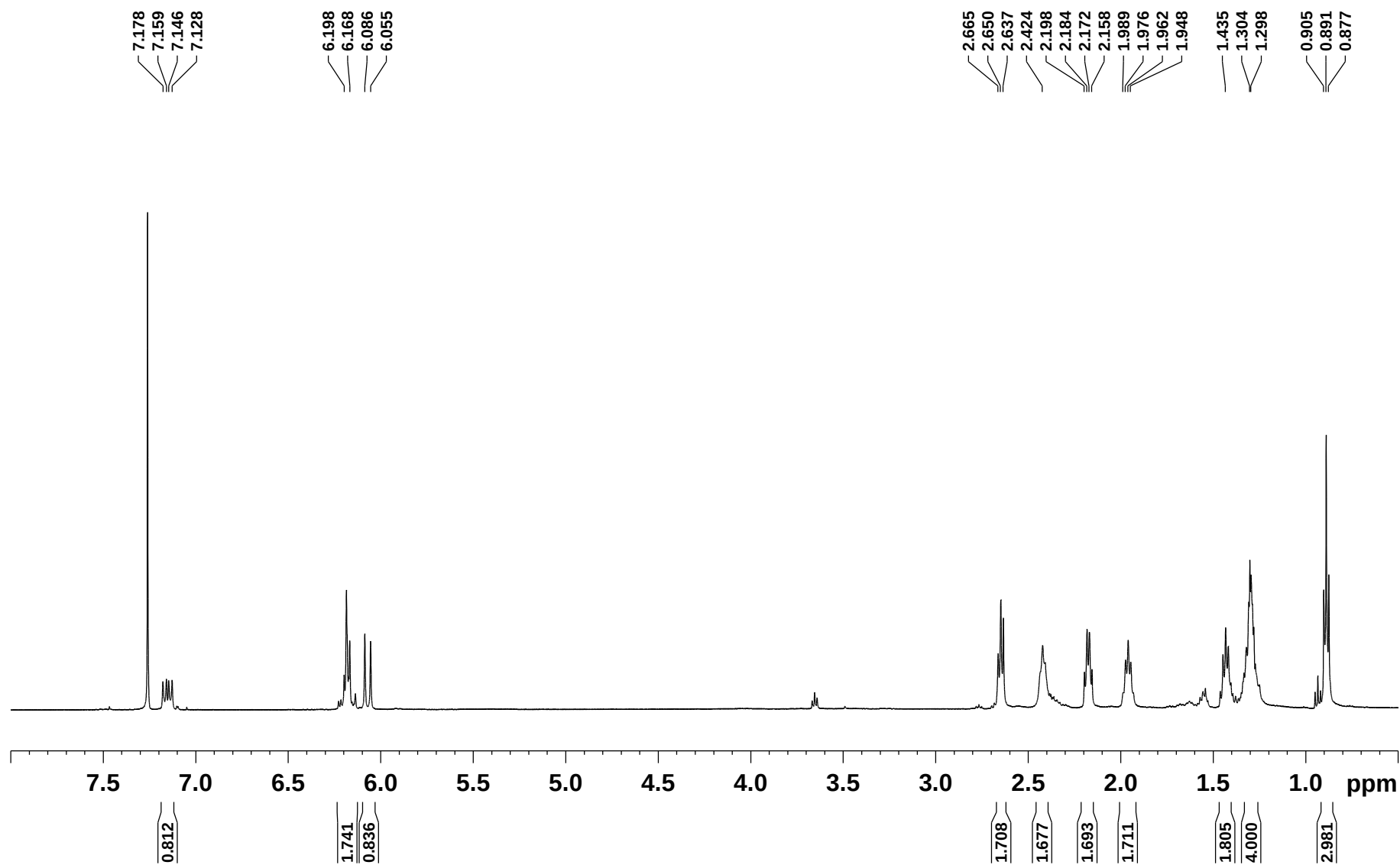


Figure S10: ^1H NMR spectrum of **2** (500 MHz, CDCl_3).

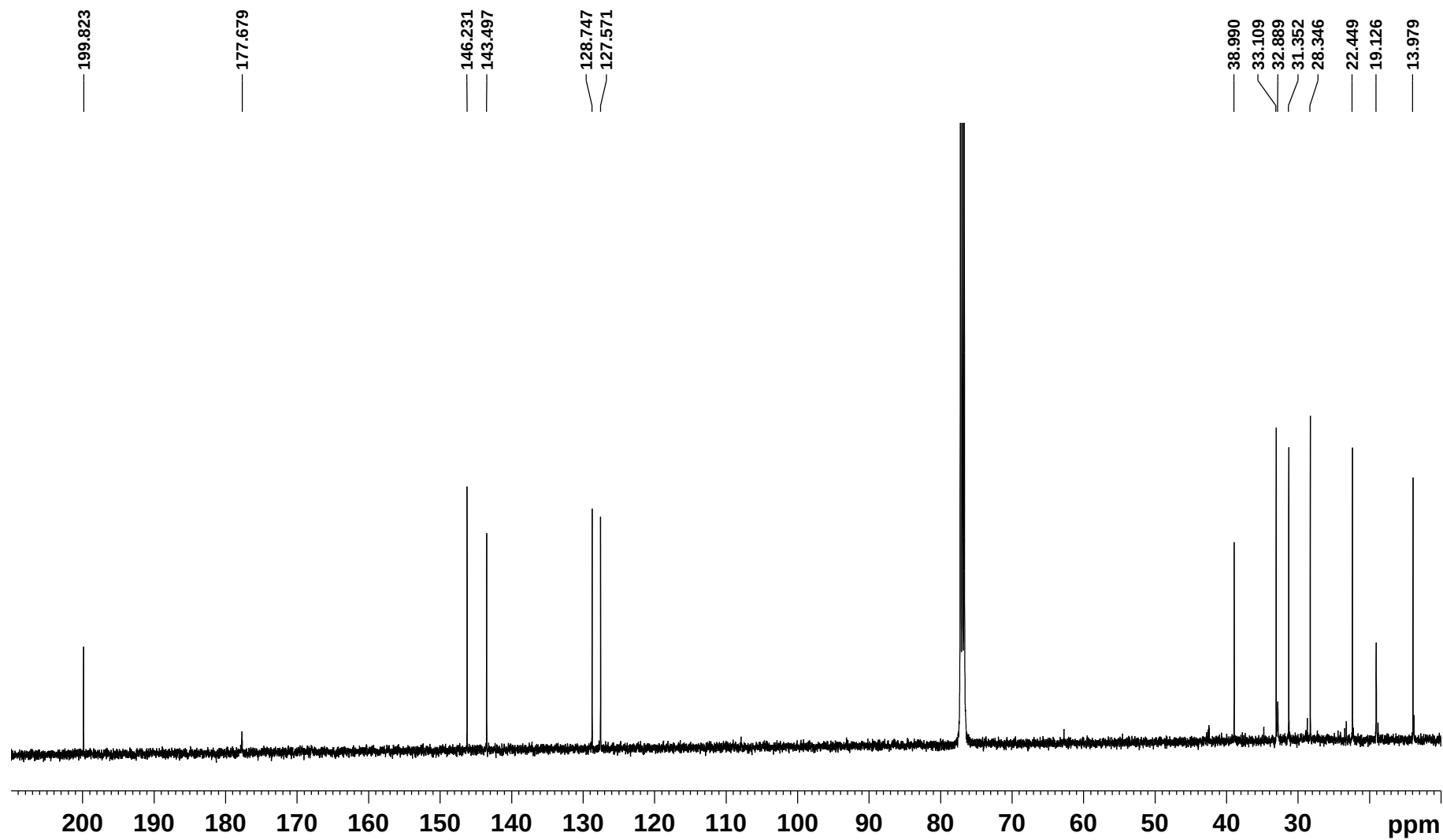


Figure S11: ^{13}C NMR spectrum of 2 (125 MHz, CDCl_3).

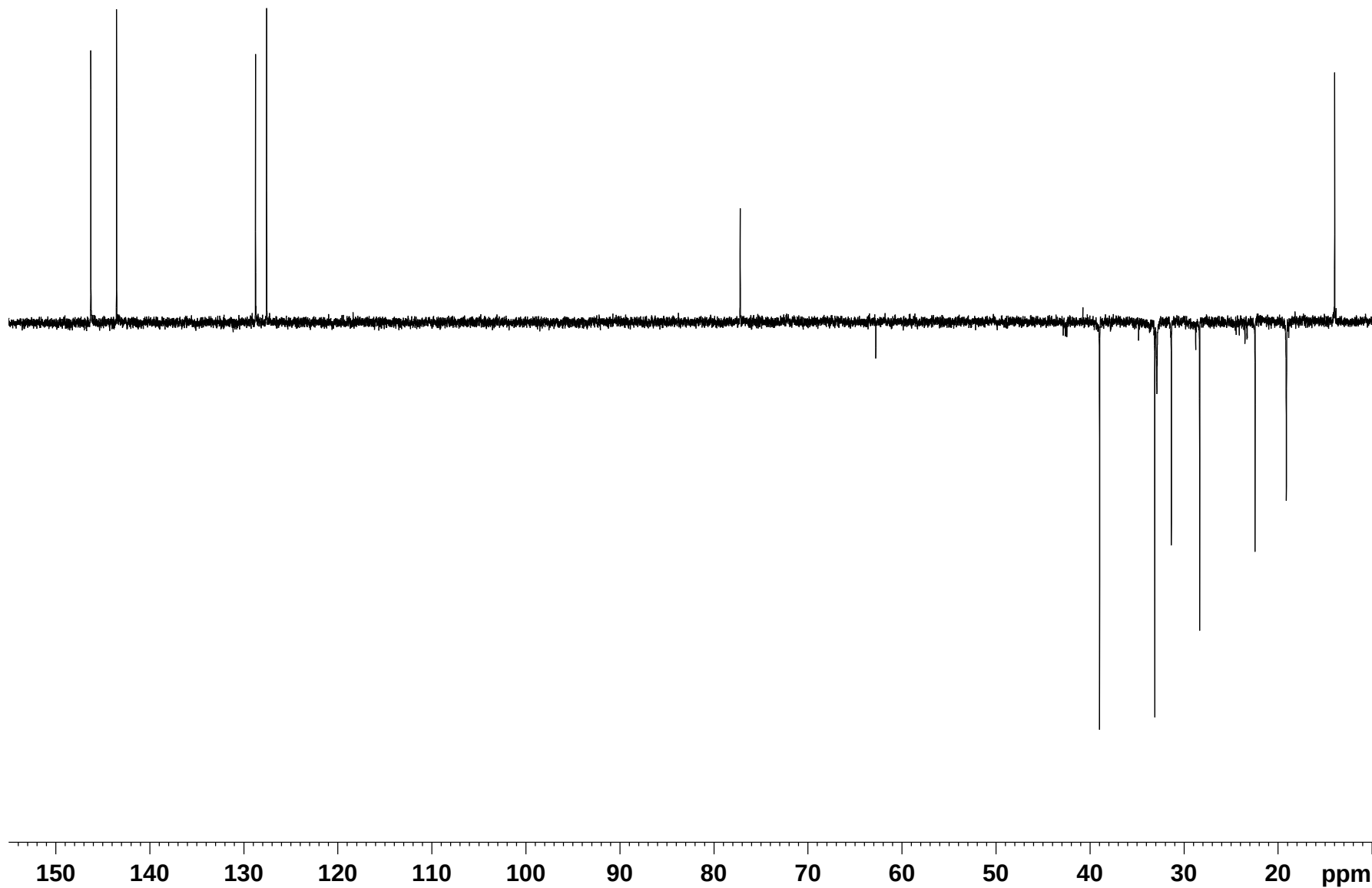


Figure S12: DEPT135 spectrum of **2** (125 MHz, CDCl₃).

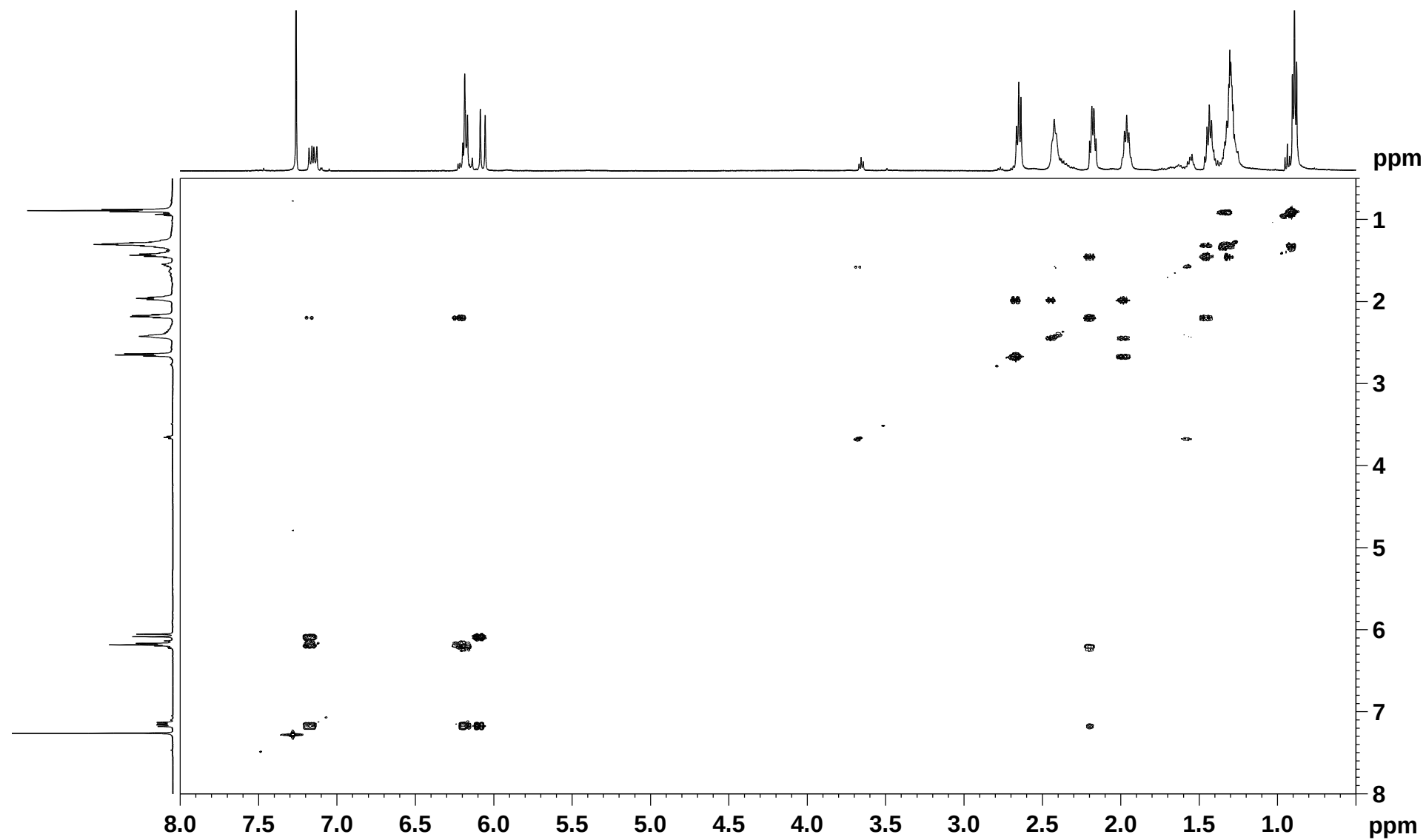


Figure S13: COSY spectrum of **2** (500 MHz, CDCl₃).

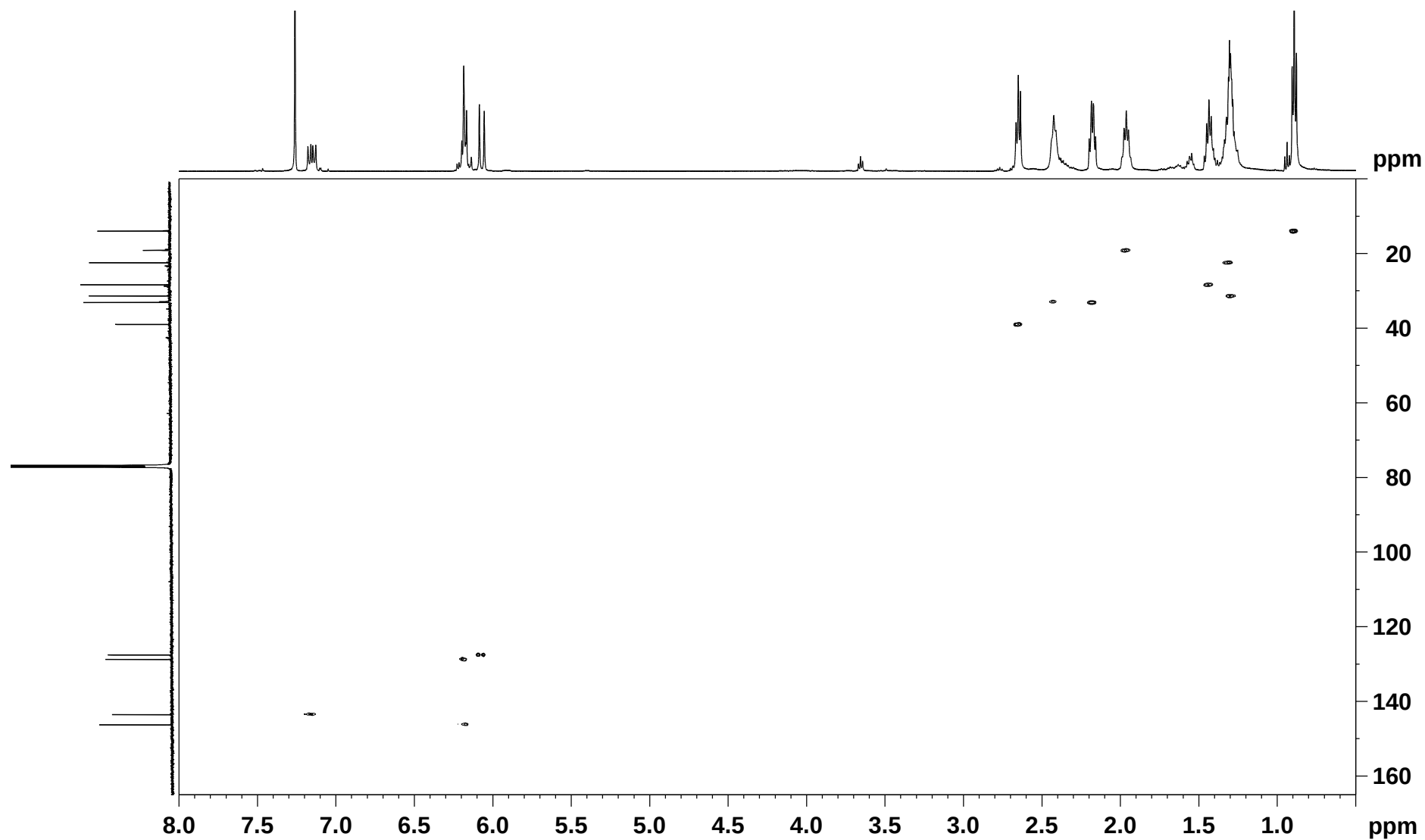


Figure S14: HSQC spectrum of **2** (500 MHz, CDCl_3).

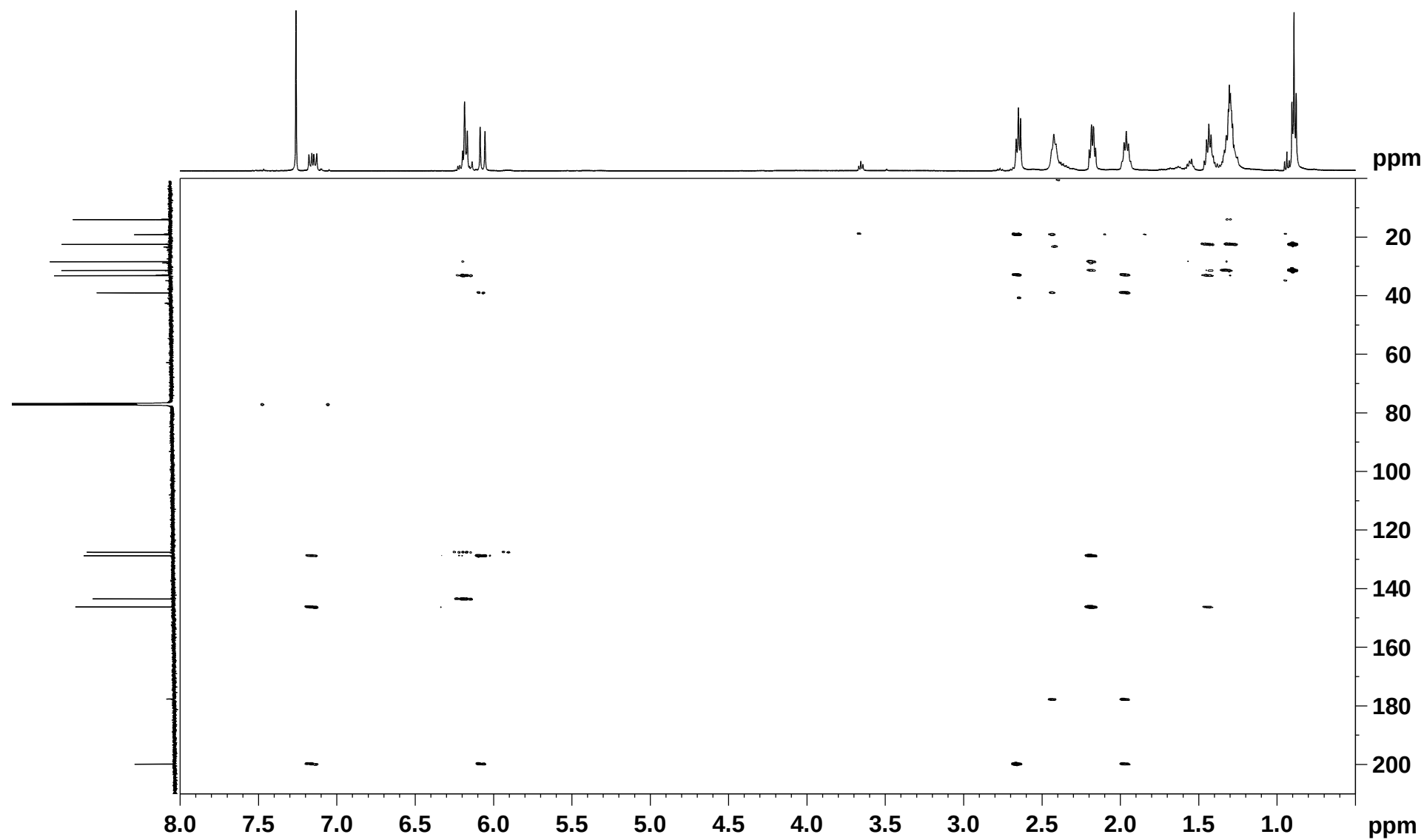


Figure S15: HMBC spectrum of **2** (500 MHz, CDCl_3).