

Supplementary Information

Brazoides A-D, New Alkaloids from *Justicia gendarussa* Burm. F. Species

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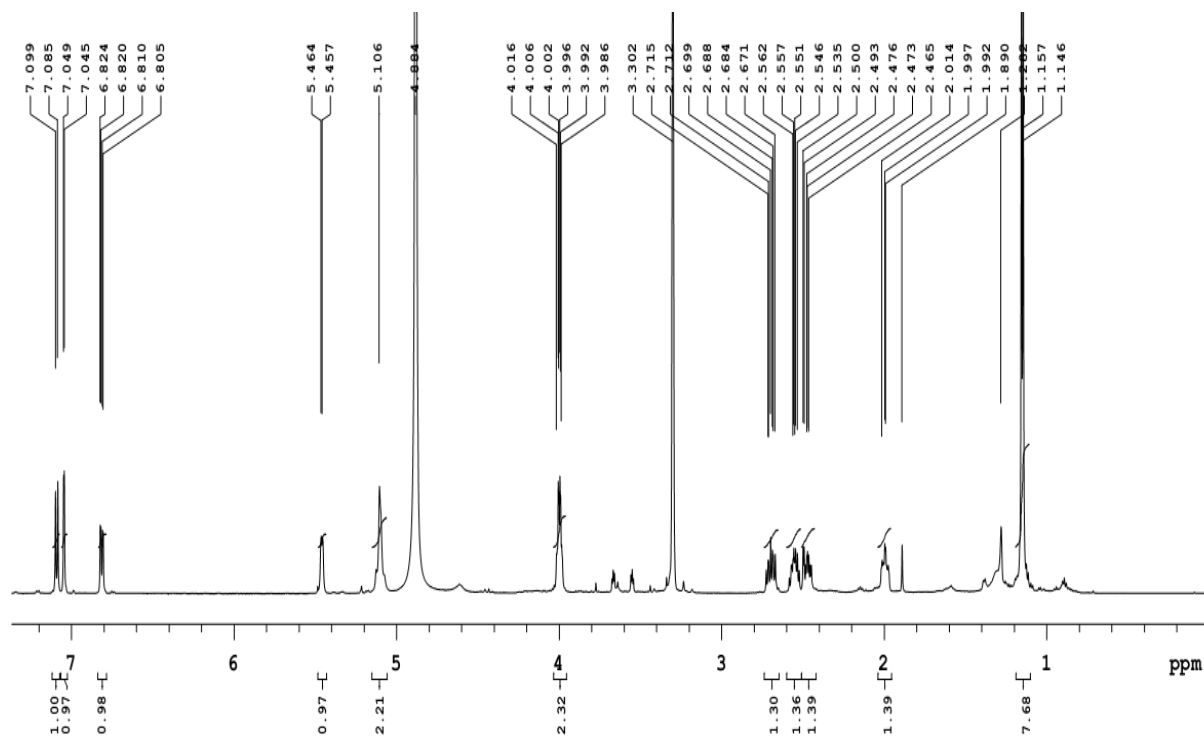


Figure S1. ^1H NMR (600 MHz, MeOD) spectrum of compound **1**.

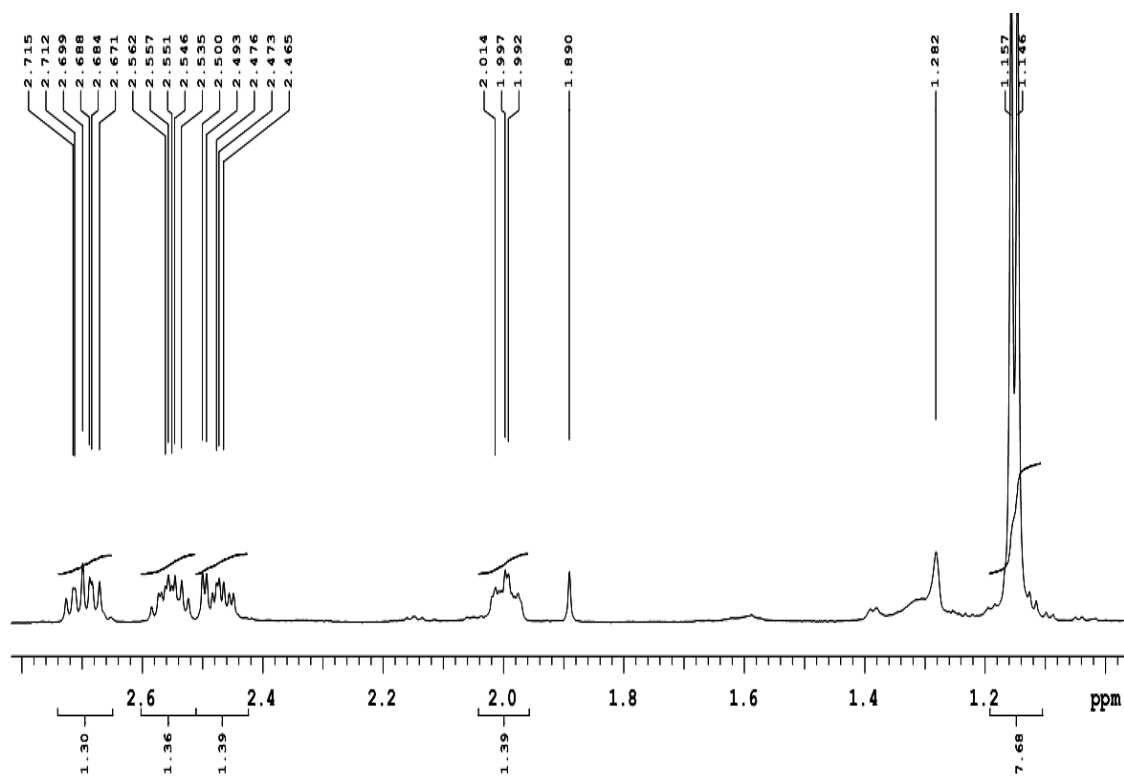


Figure S2. ^1H NMR (600 MHz, MeOD) spectrum, from 0.9 to 2.8 ppm, of compound **1**.

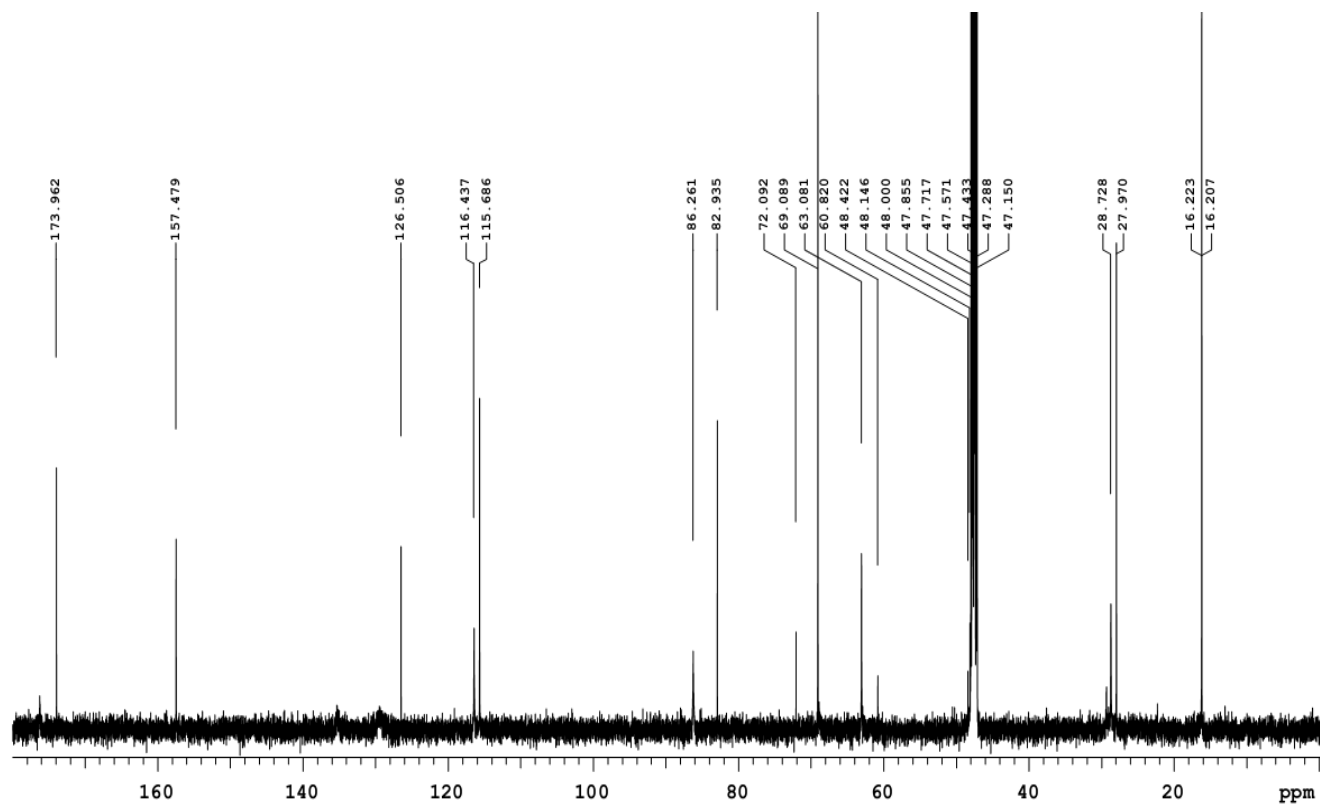


Figure S3. ^{13}C NMR (150 MHz, MeOD) spectrum of compound **1**.

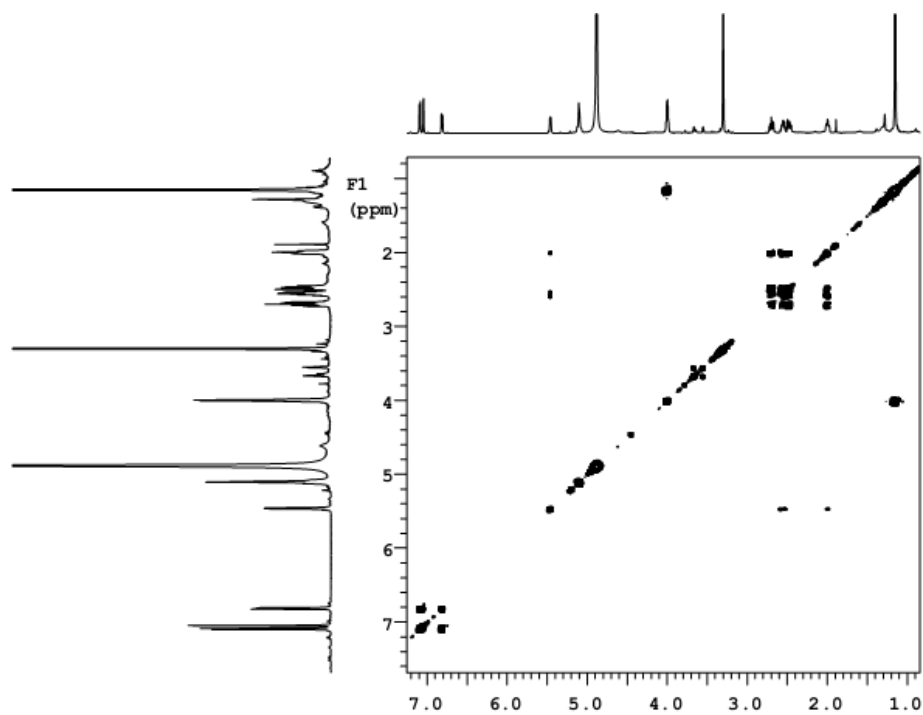


Figure S4. COSY (600 MHz, MeOD) spectrum of compound **1**.

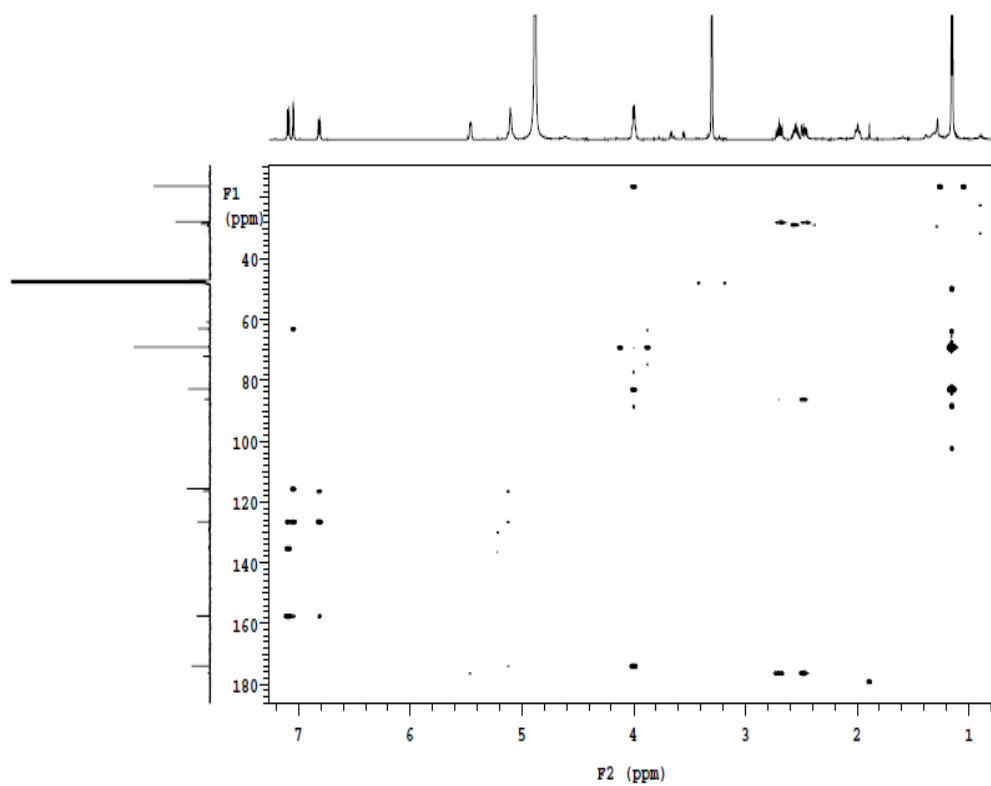


Figure S7. HMBC (600 MHz, MeOD) spectrum of compound **1**.

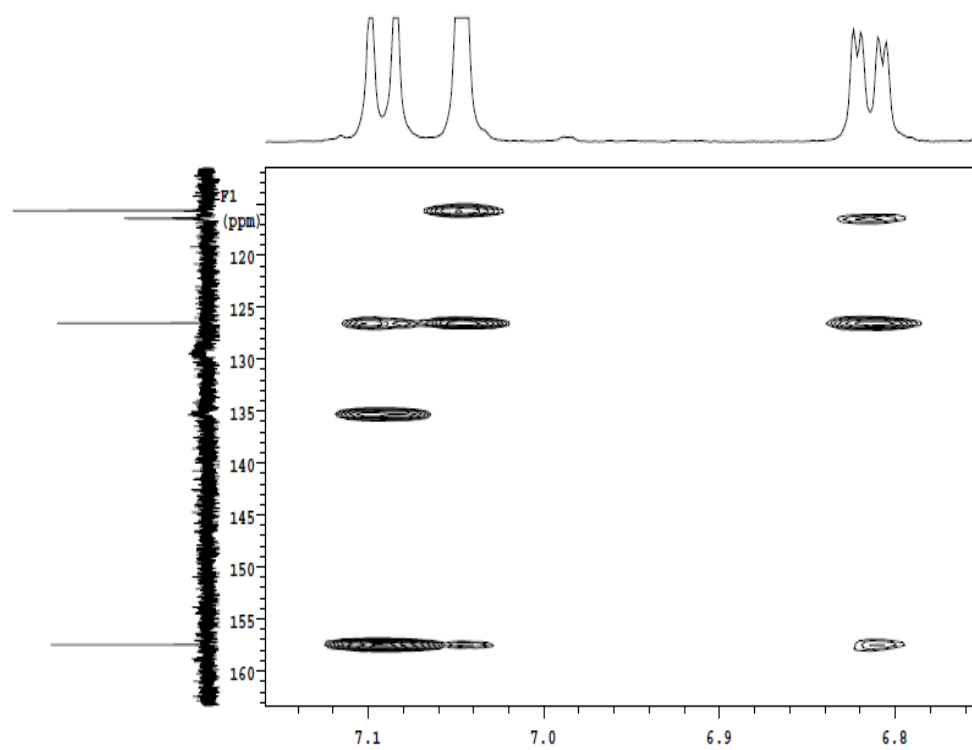


Figure S8. HMBC (600 MHz, MeOD) spectrum, from 6.74 to 7.16 ppm, of compound **1**.

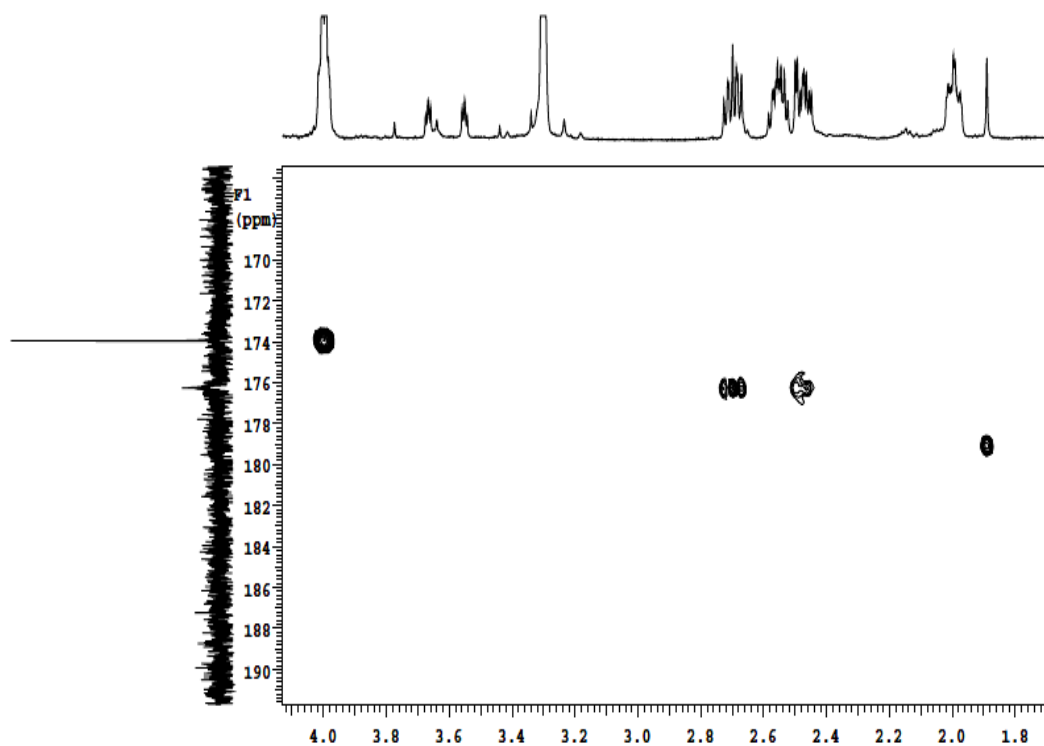


Figure S9. HMBC (600 MHz, MeOD) spectrum, from 1.7 to 4.1 ppm, of compound **1**.

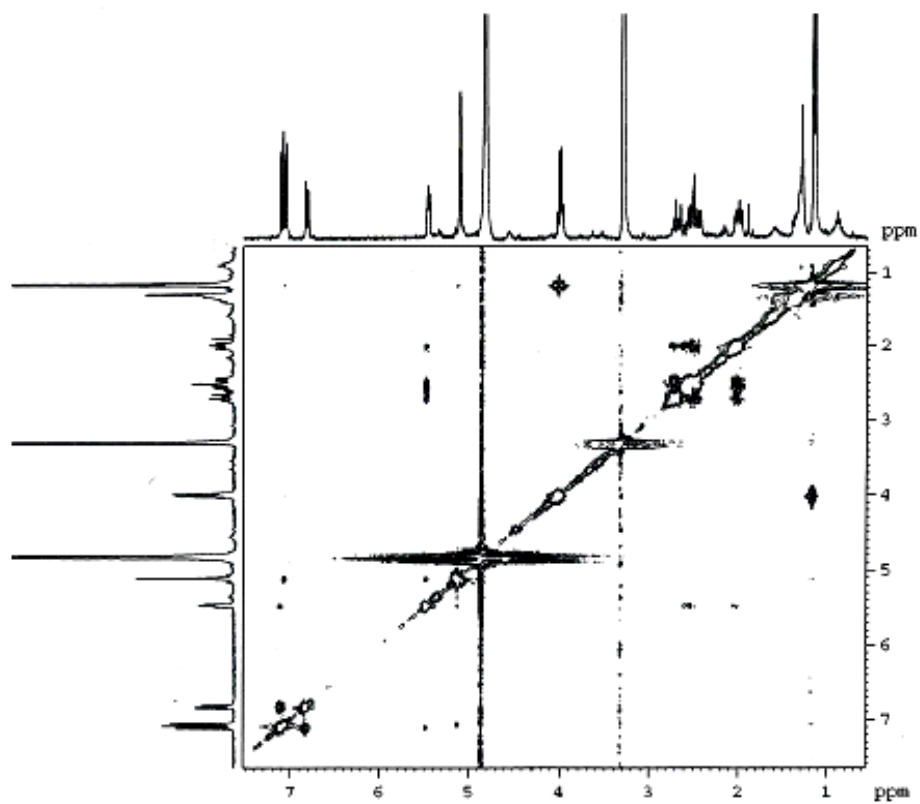


Figure S10. NOESY (300 MHz, MeOD) spectrum of compound **1**.

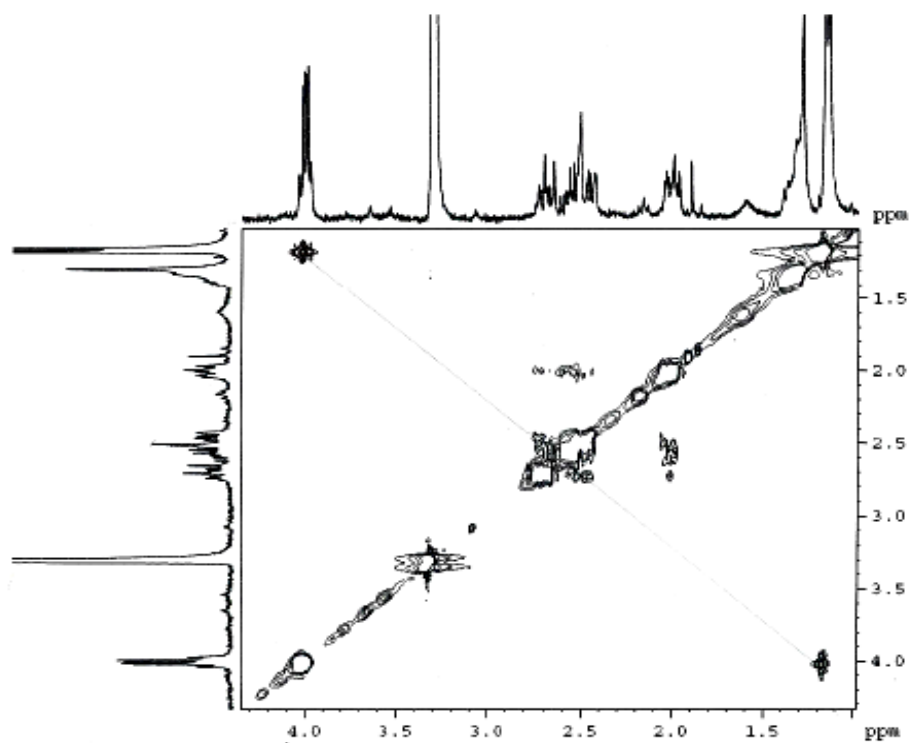


Figure S11. NOESY (300 MHz, MeOD) spectrum, from 1.0 to 4.5 ppm, of compound **1**.

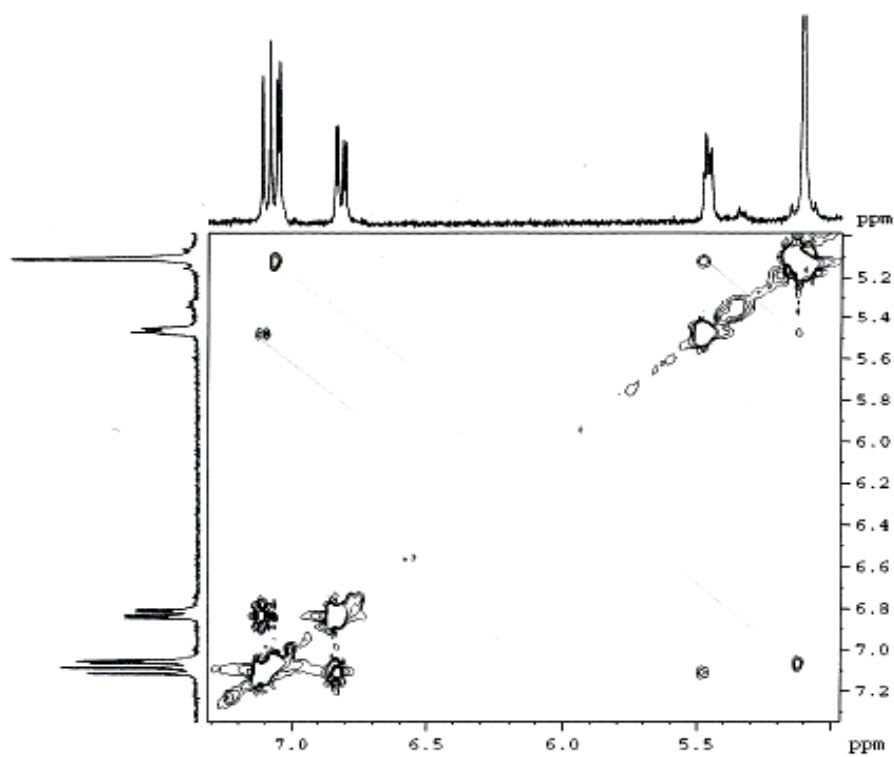


Figure S12. NOESY (300 MHz, MeOD) spectrum, from 5.0 to 7.8 ppm, of compound **1**.

MSMS: Precursor m/z — /+ Base Peak 392.13(651966)

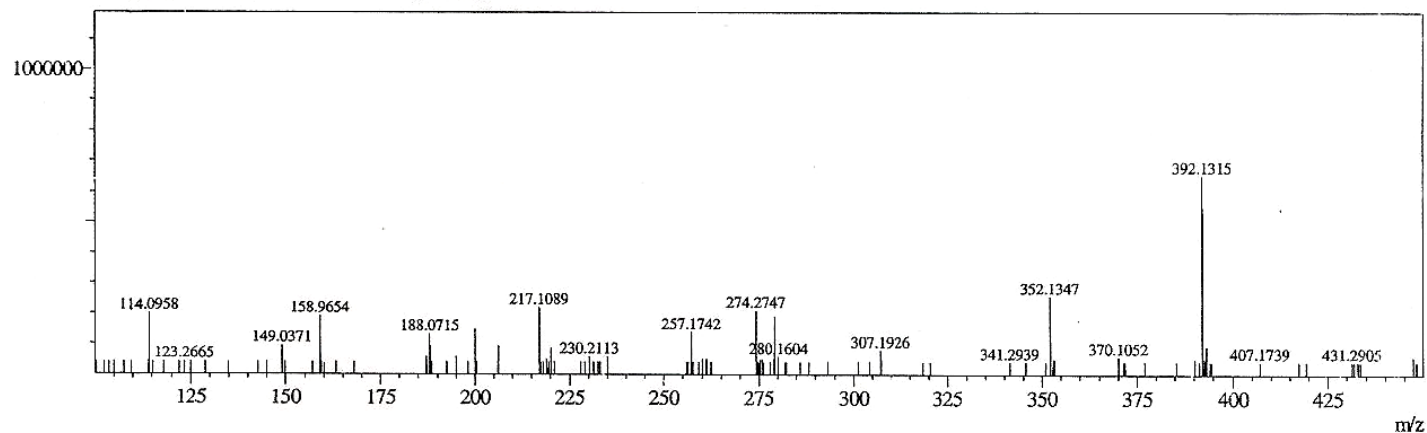


Figure S13. HRESIMS (positive mode) spectrum of compound 1.

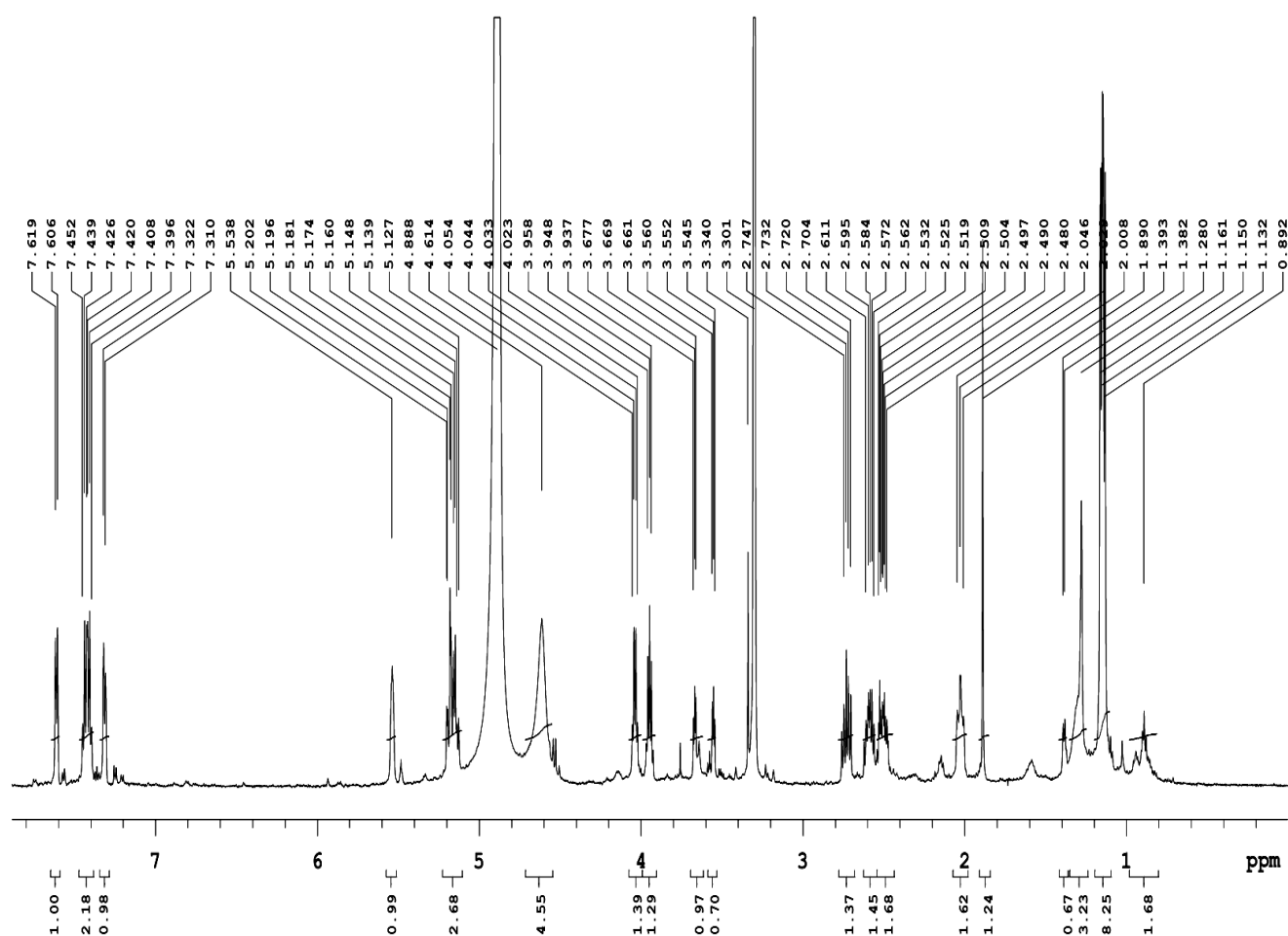


Figure S14. ¹H NMR (600 MHz, MeOD) spectrum of compound 2.

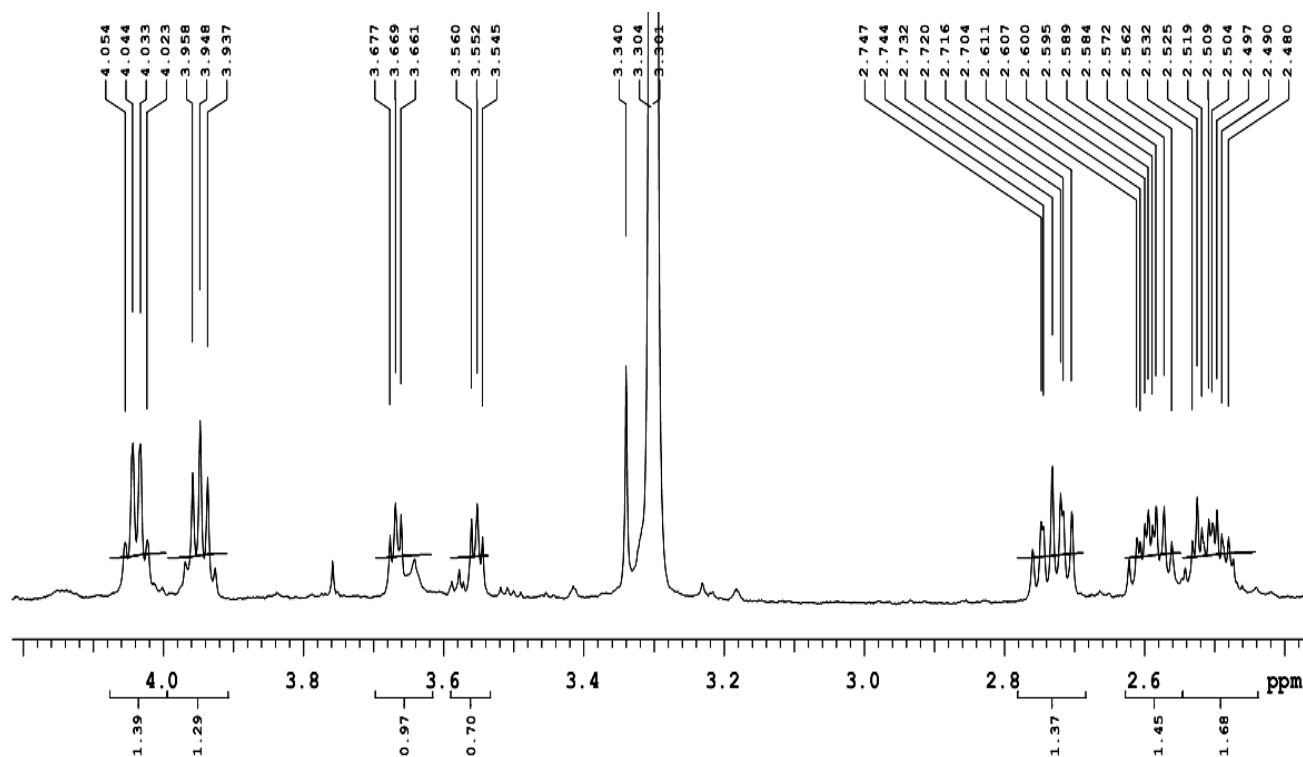


Figure S15. ^1H NMR (600 MHz, MeOD) spectrum, from 2.4 to 4.2 ppm, of compound **2**.

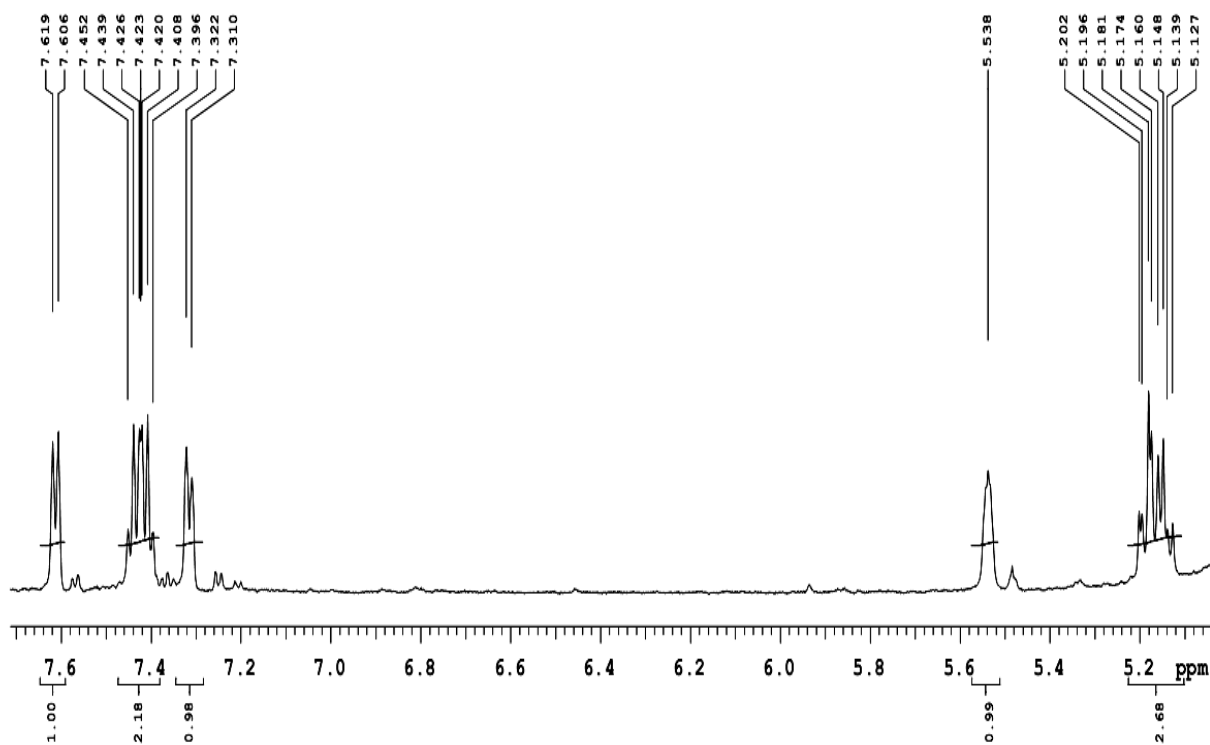


Figure S16. ^1H NMR (600 MHz, MeOD) spectrum, from 5.1 to 7.7 ppm, of compound **2**.

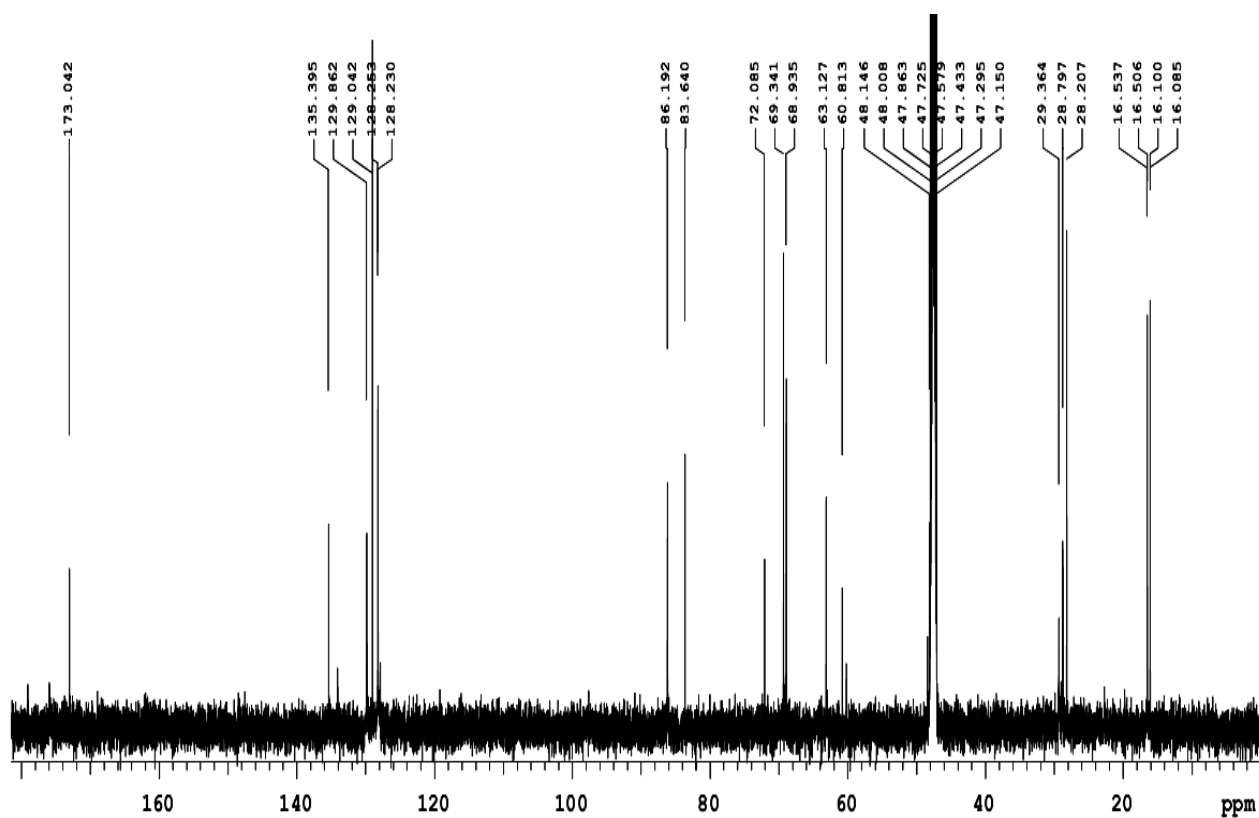


Figure S17. ^{13}C NMR (600 MHz, MeOD) spectrum of compound **2**.

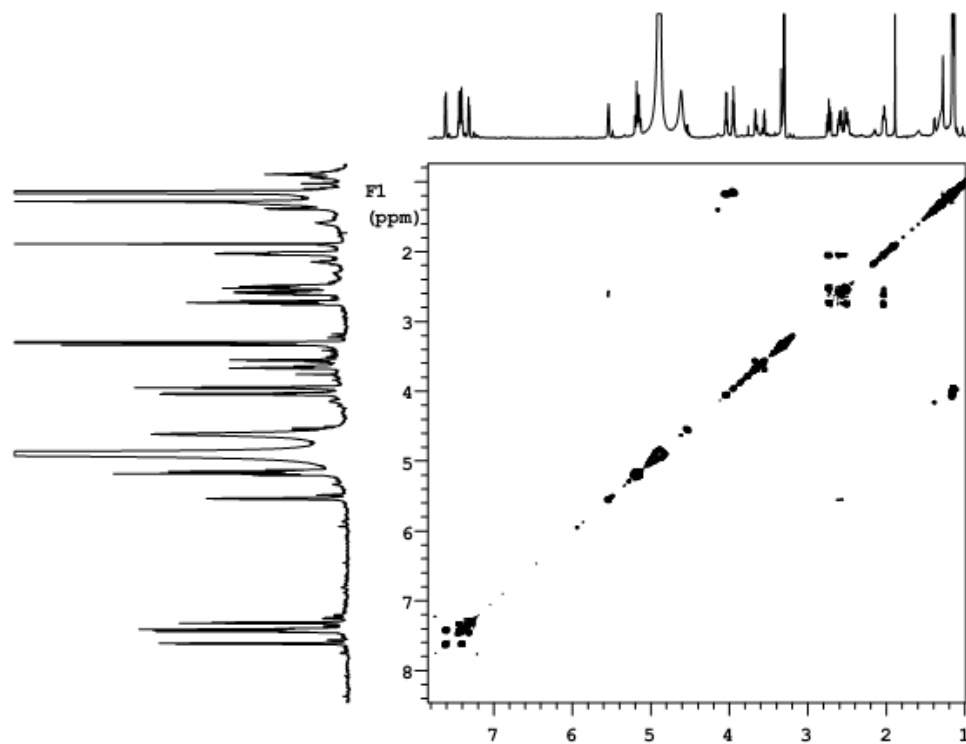


Figure S18. COSY (600 MHz, MeOD) spectrum of compound **2**.

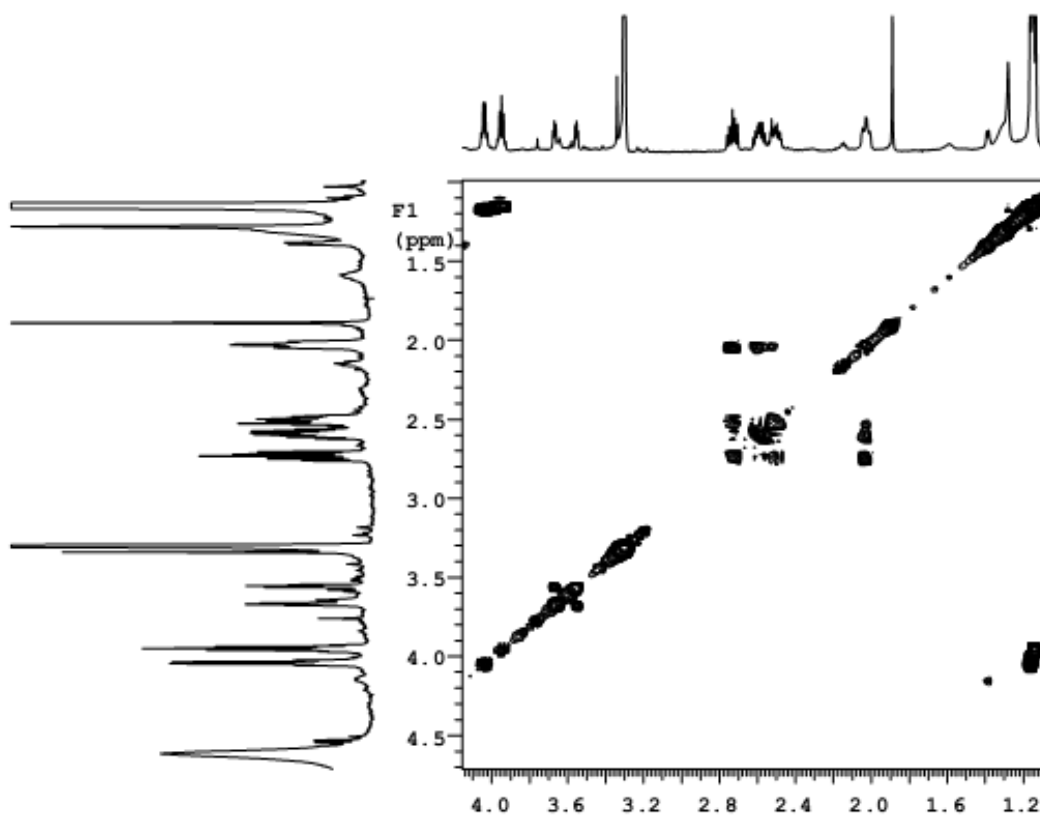


Figure S19. COSY (600 MHz, MeOD) spectrum, from 1.2 to 4.1 ppm, of compound **2**.

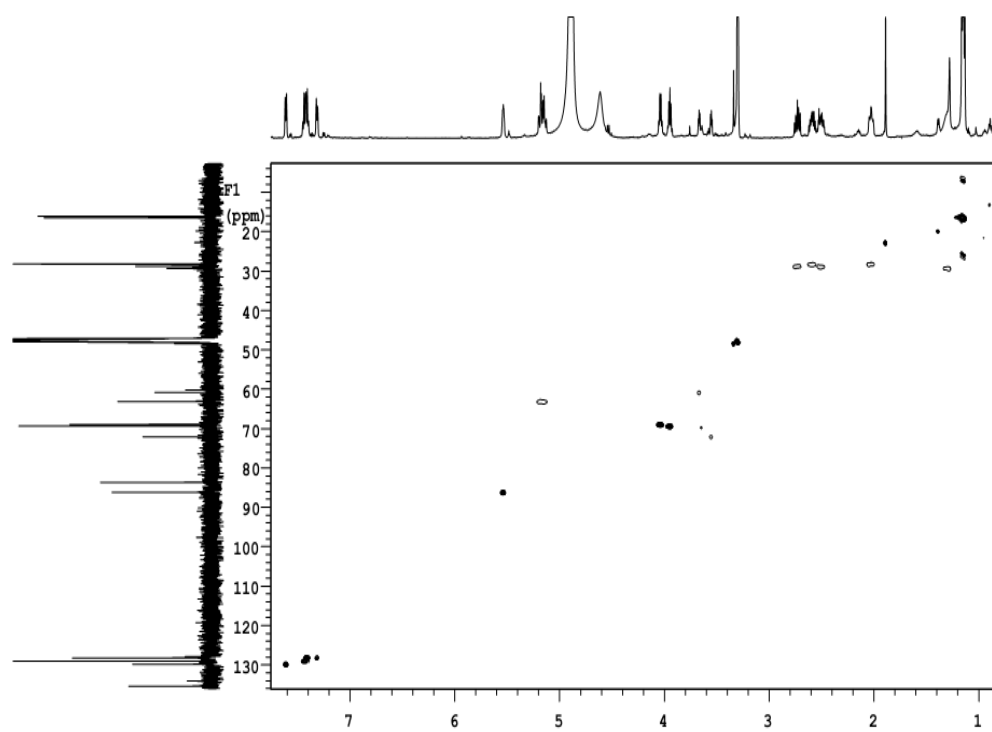


Figure S20. HSQC (600 MHz, MeOD) spectrum of compound **2**.

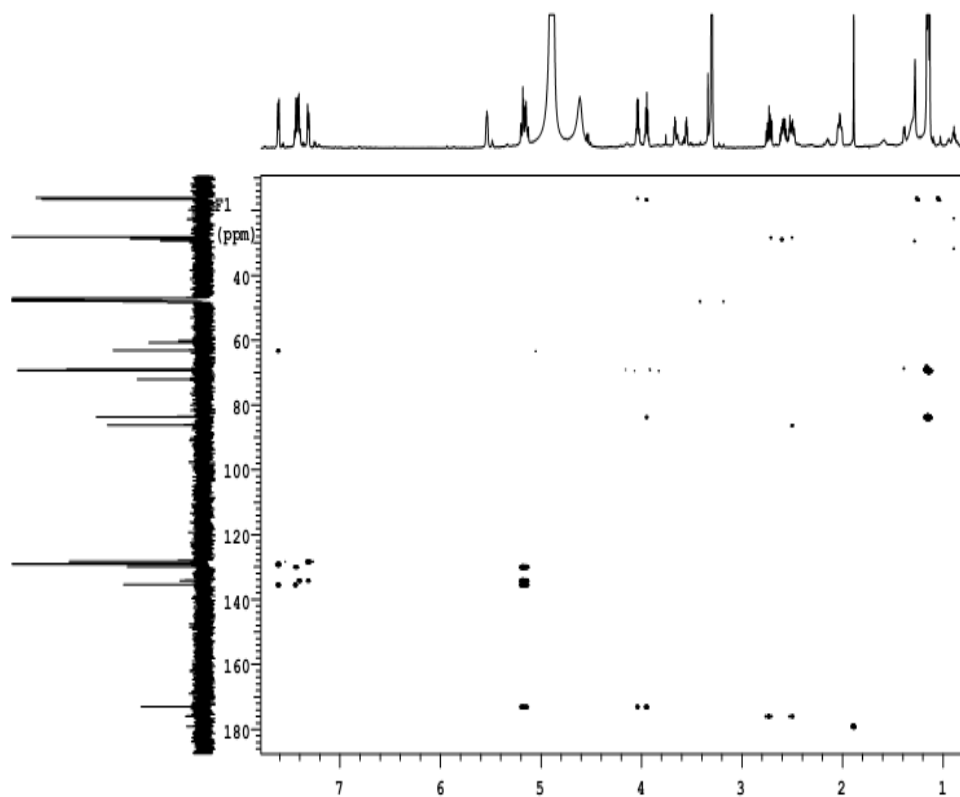


Figure S21. HMBC (600 MHz, MeOD) spectrum of compound **2**.

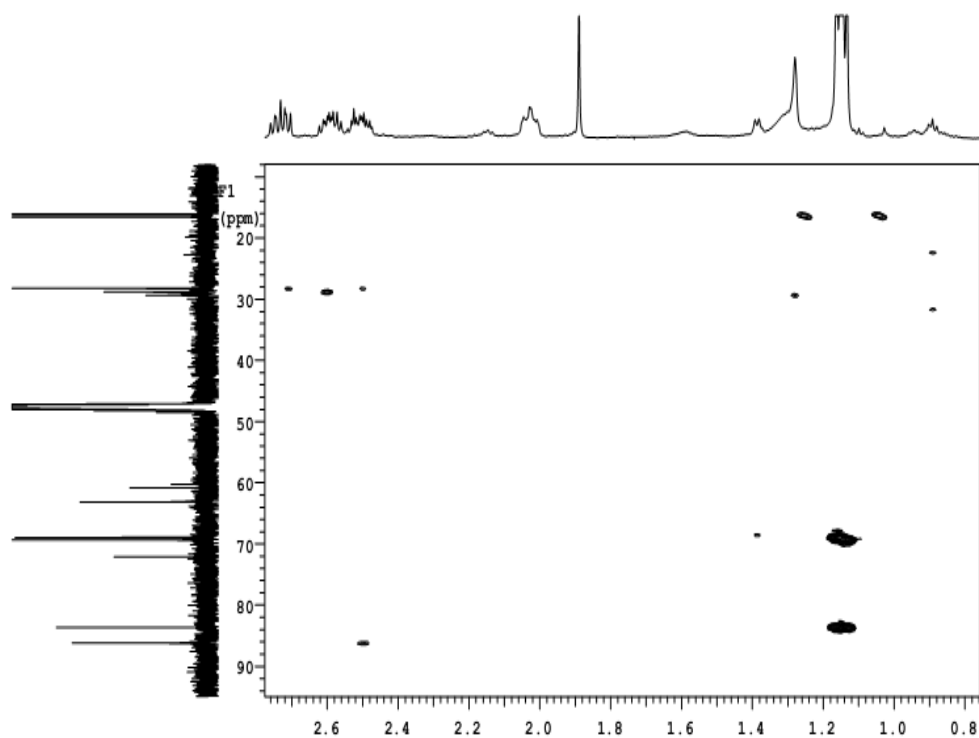


Figure S22. HMBC (600 MHz, MeOD) spectrum, from 0.8 to 2.8 ppm, of compound **2**.

MSMS: Precursor m/z ---- /+ Base Peak 376.14(3580214)

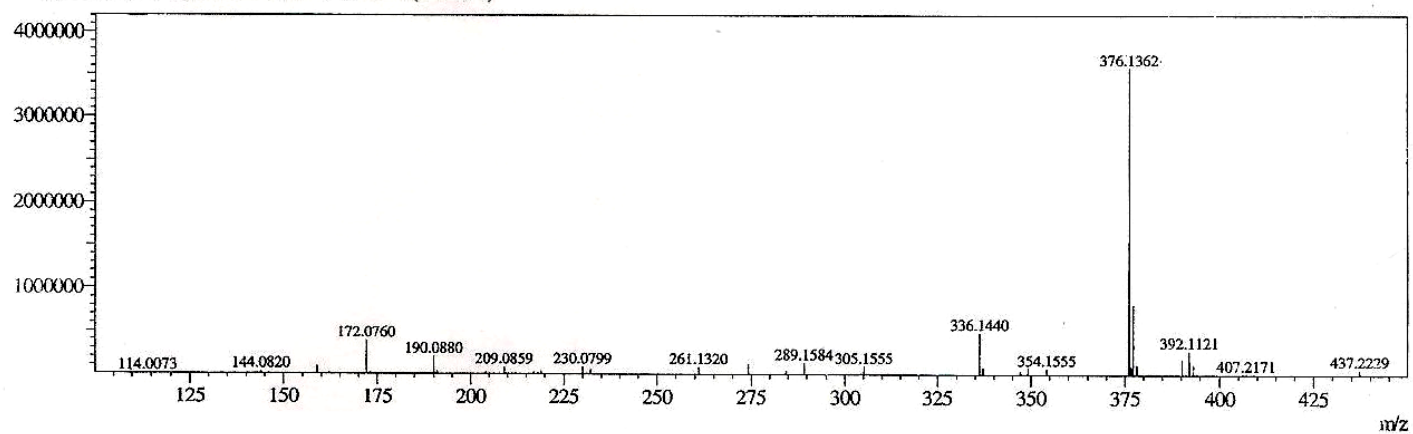


Figure S23. HRESIMS spectrum (positive mode) of compound **2**.

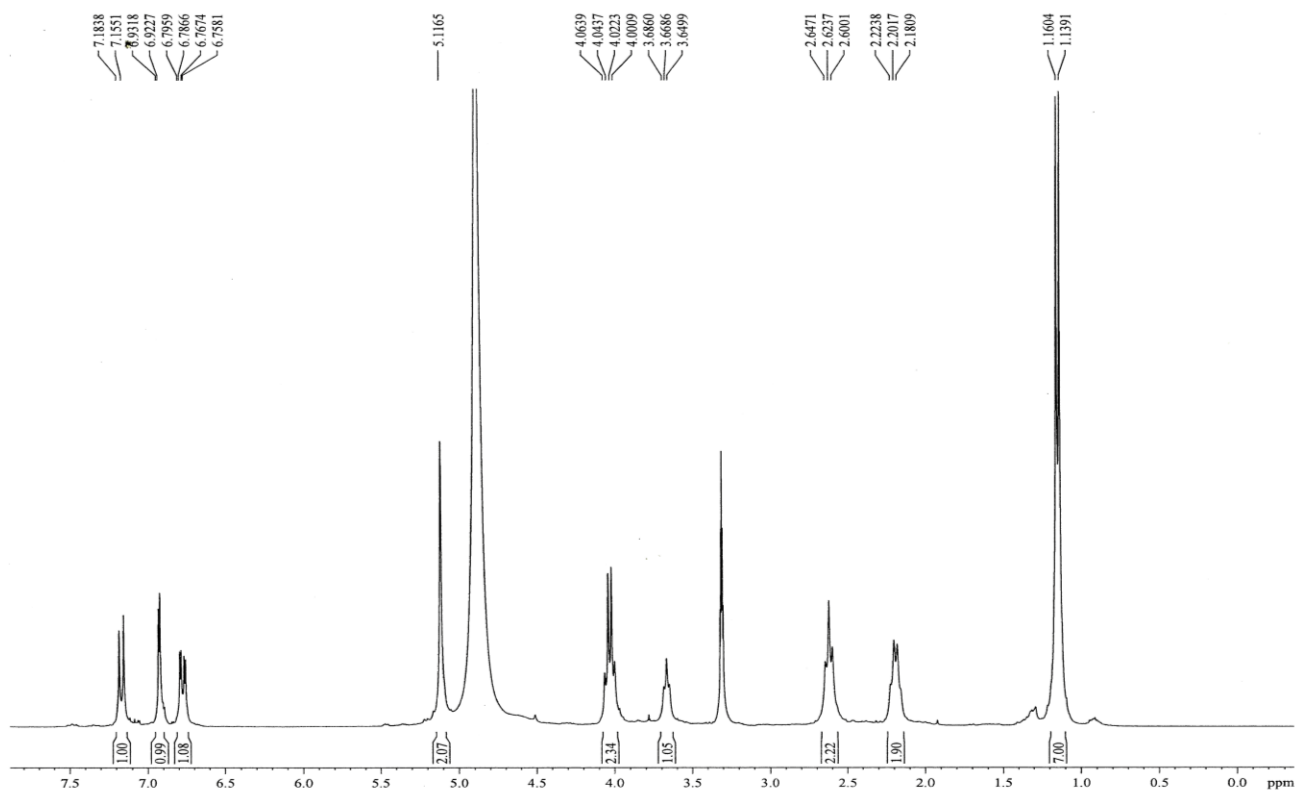


Figure S24. ¹H NMR (500 MHz, MeOD) spectrum of compound **3**.

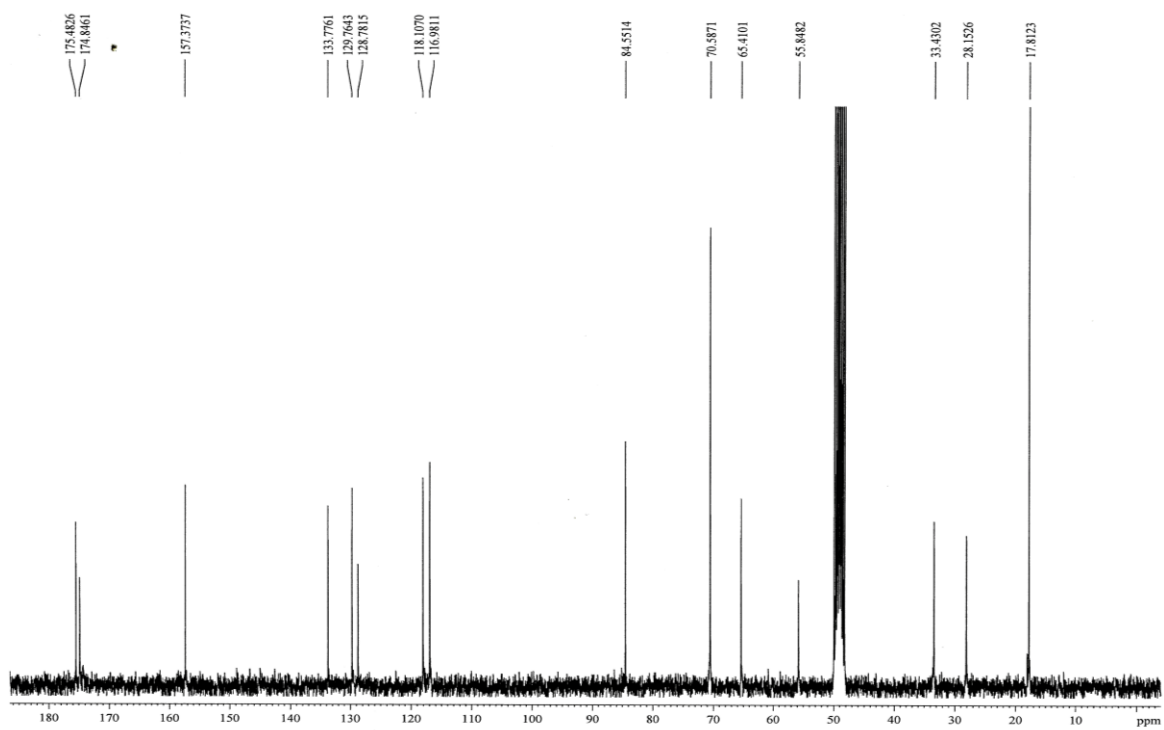


Figure S25. ^{13}C NMR (125 MHz, MeOD) spectrum of compound **3**.

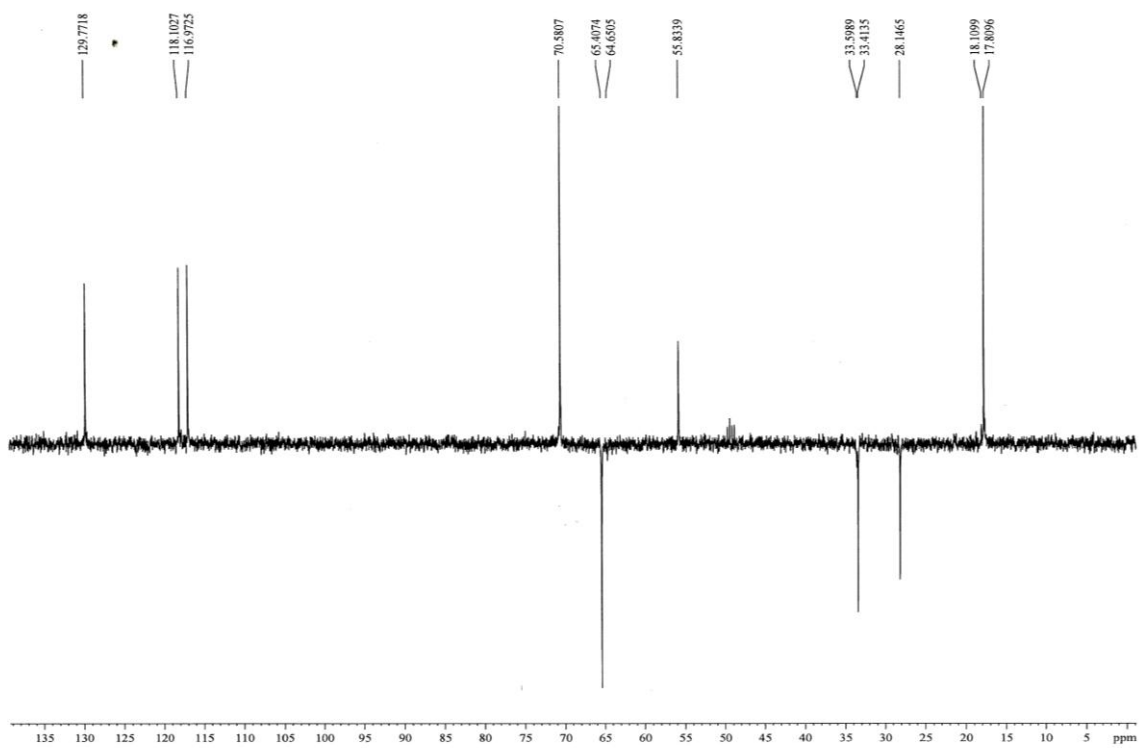


Figure S26. ^{13}C DEPT 135° (125 MHz, MeOD) spectrum of compound **3**.

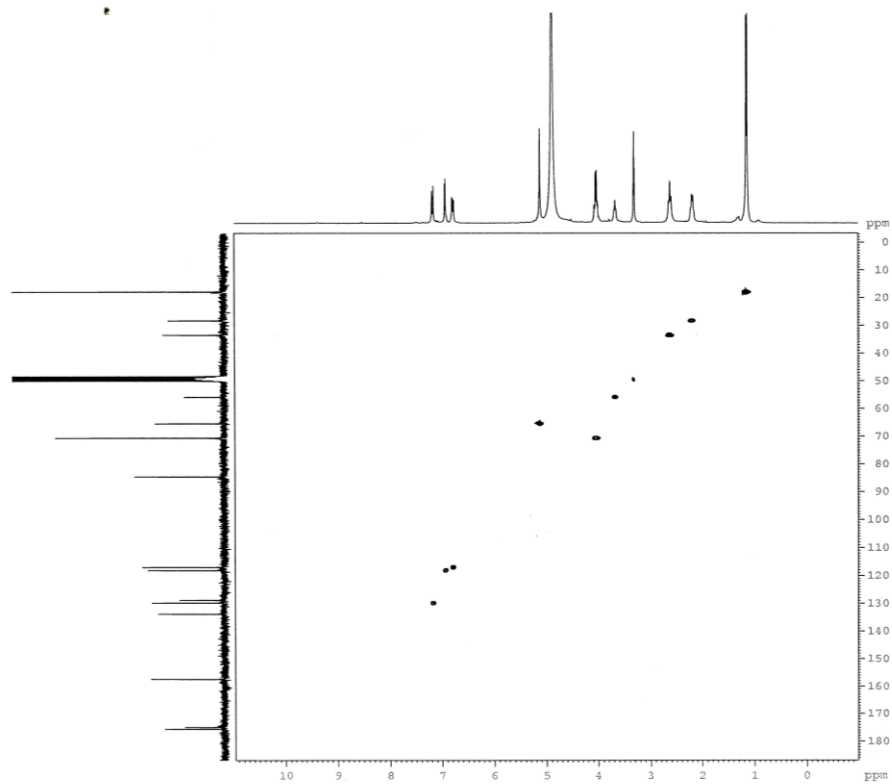


Figure S27. HSQC (500 MHz, MeOD) spectrum of compound **3**.

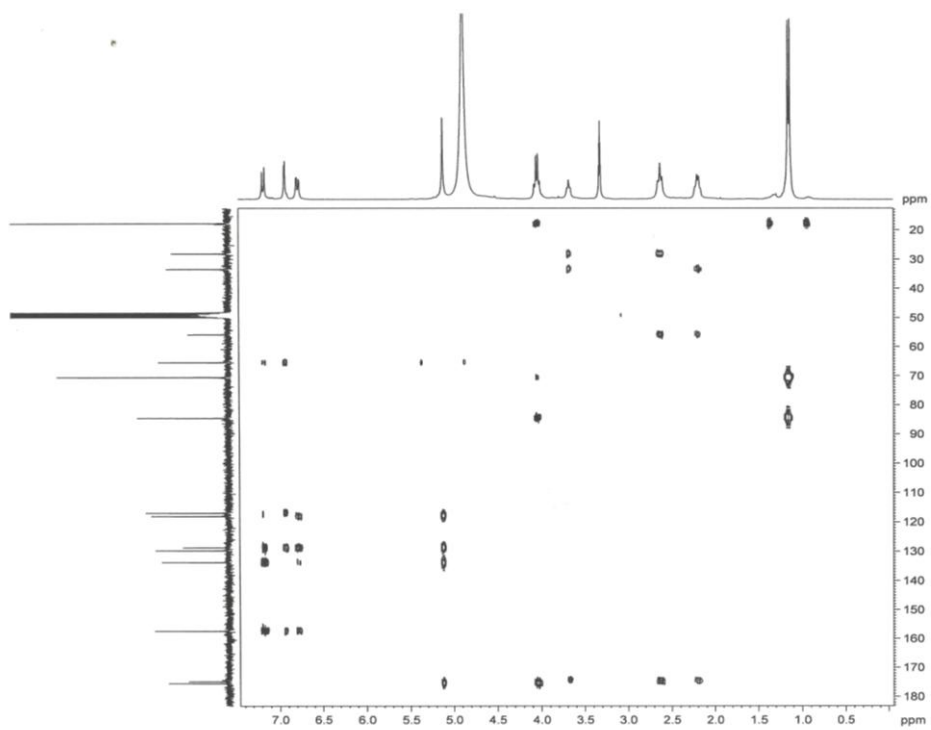


Figure S28. HMBC (500 MHz, MeOD) spectrum of compound **3**.

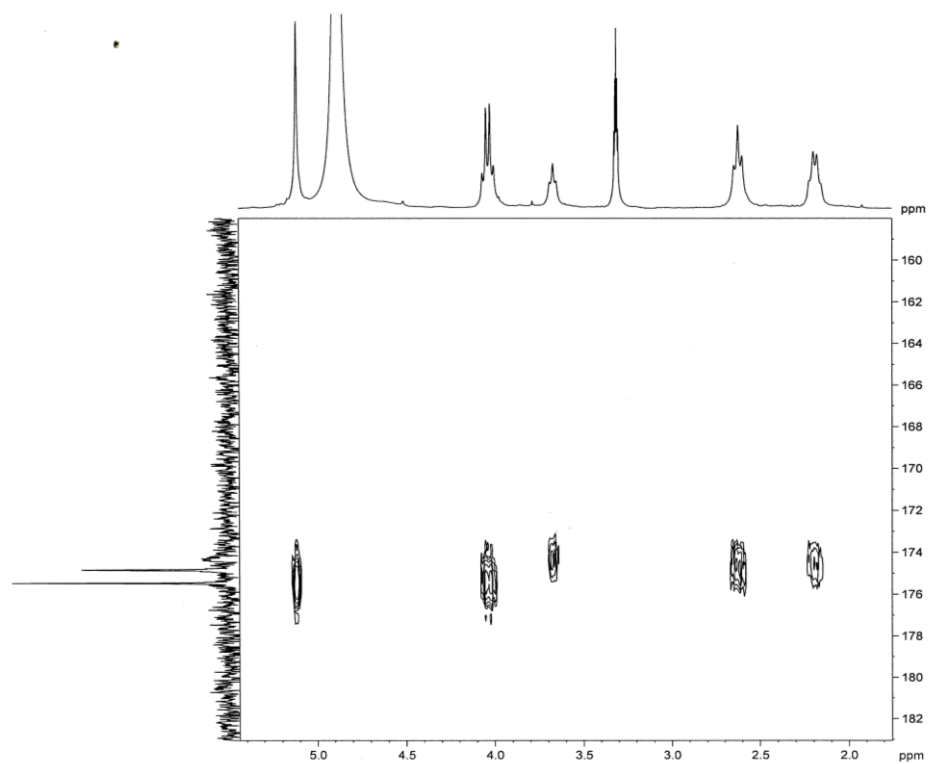


Figure S29. HMBC (500 MHz, MeOD) spectrum, from 1.8 to 5.4 ppm, of compound **3**.

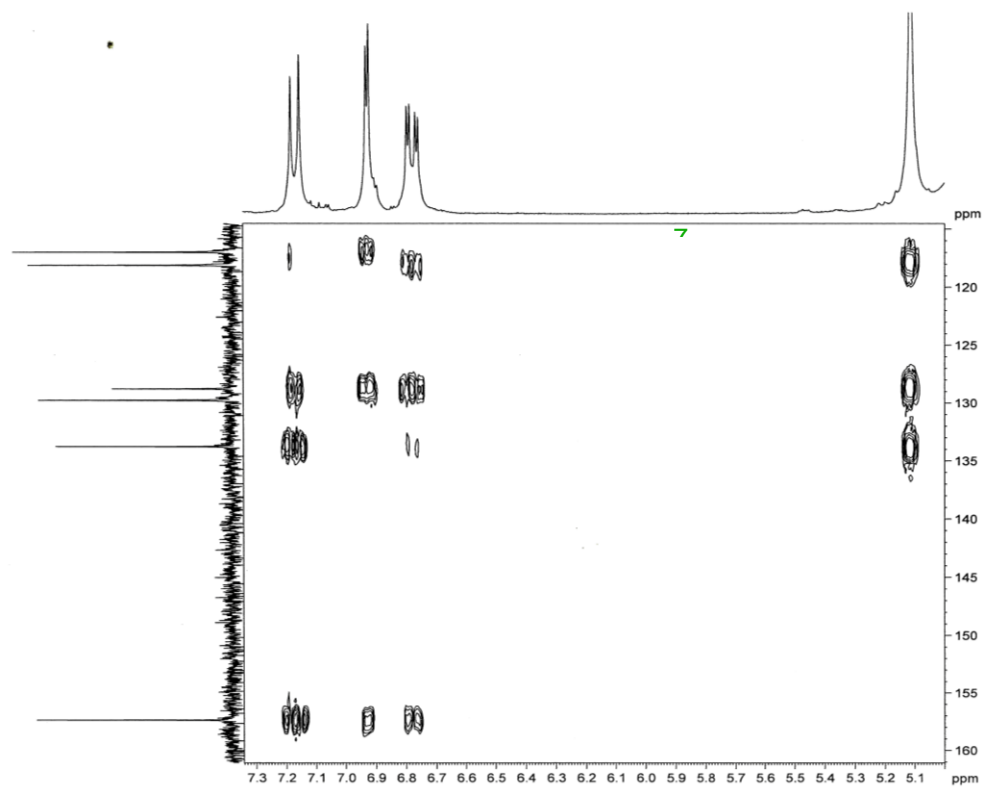
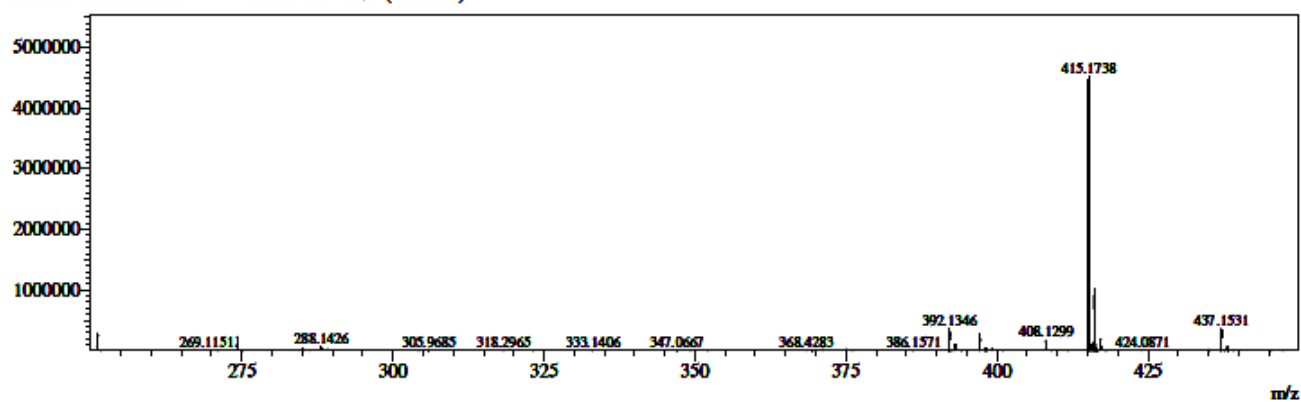


Figure S30. HMBC (500 MHz, MeOD) spectrum, from 5.0 to 7.3 ppm, of compound **3**.

MSMS: Precursor m/z — /+ Base Peak 415.17(4520823)



MSMS: Precursor m/z — /- Base Peak 413.16(3092256)

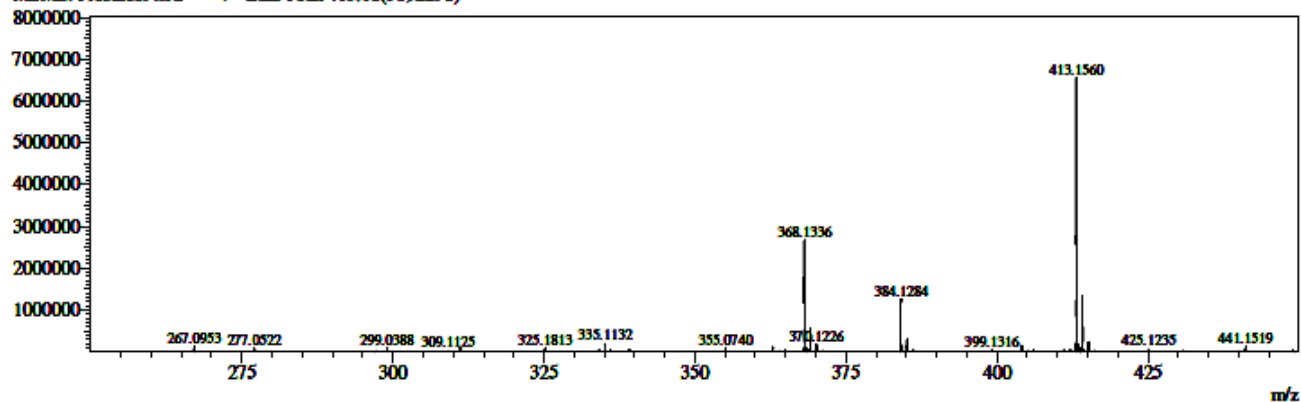


Figure S31. HRESIMS spectrum (positive and negative mode) of compound 3.

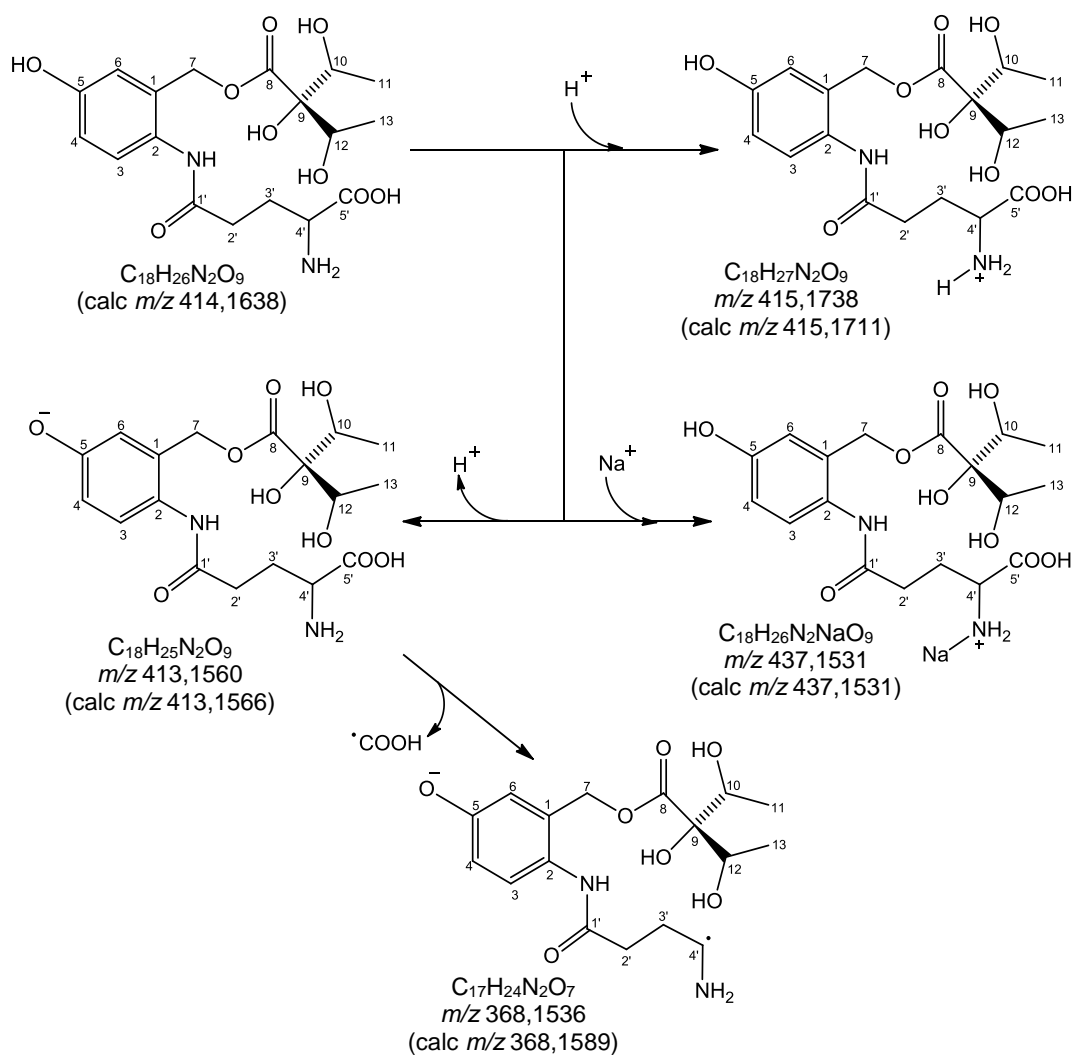


Figure S32. Proposed fragmentation of compound **3**.

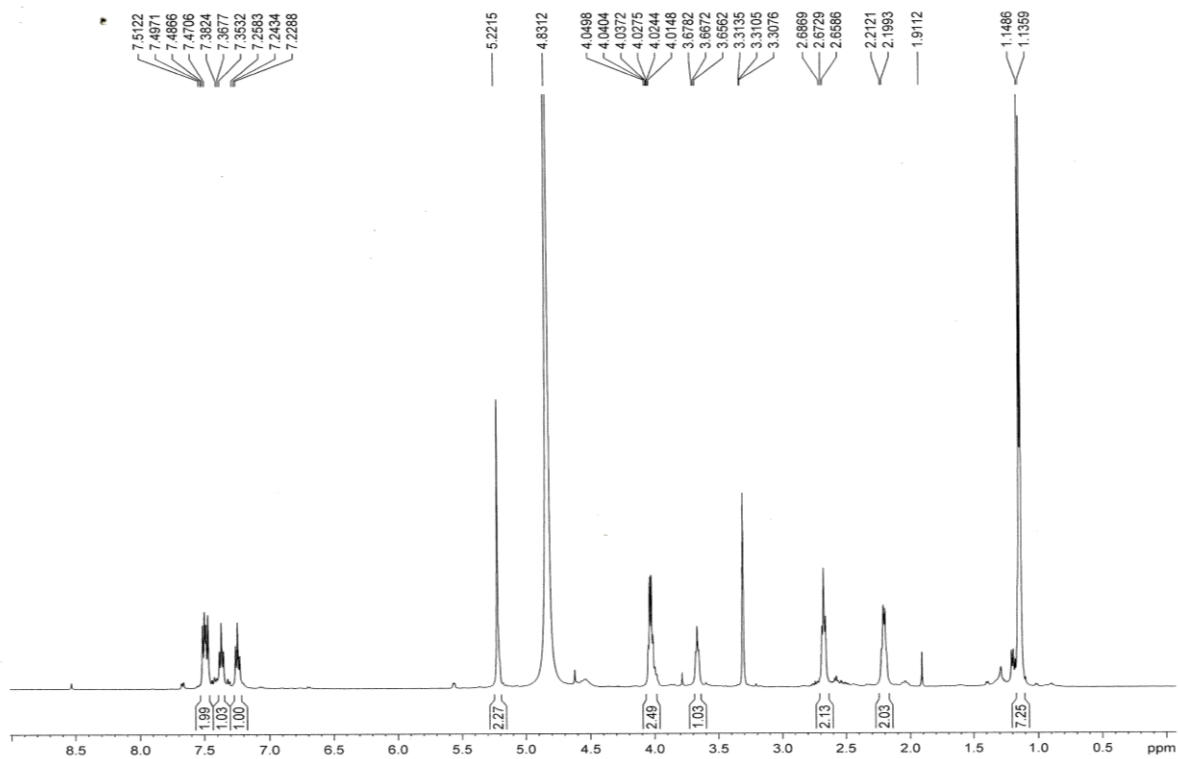


Figure S33. ¹H NMR (500 MHz, MeOD) spectrum of compound 4.

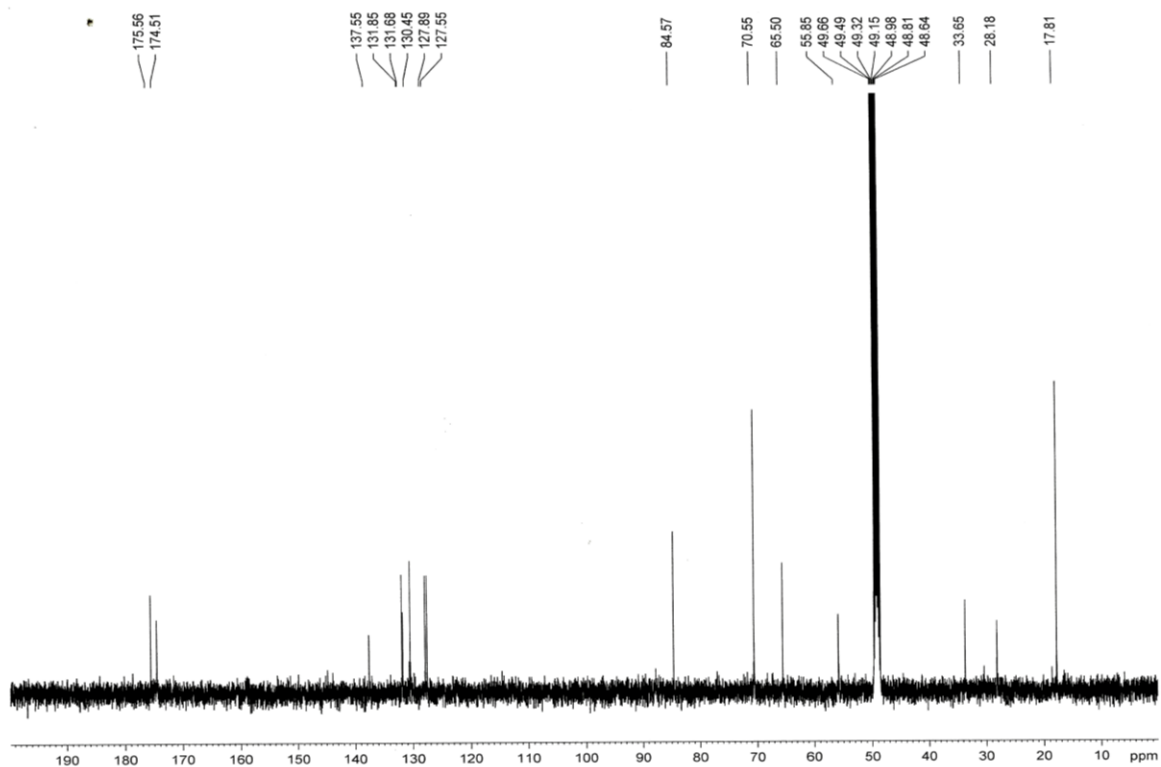


Figure S34. ¹³C NMR (125 MHz, MeOD) spectrum of compound 4.

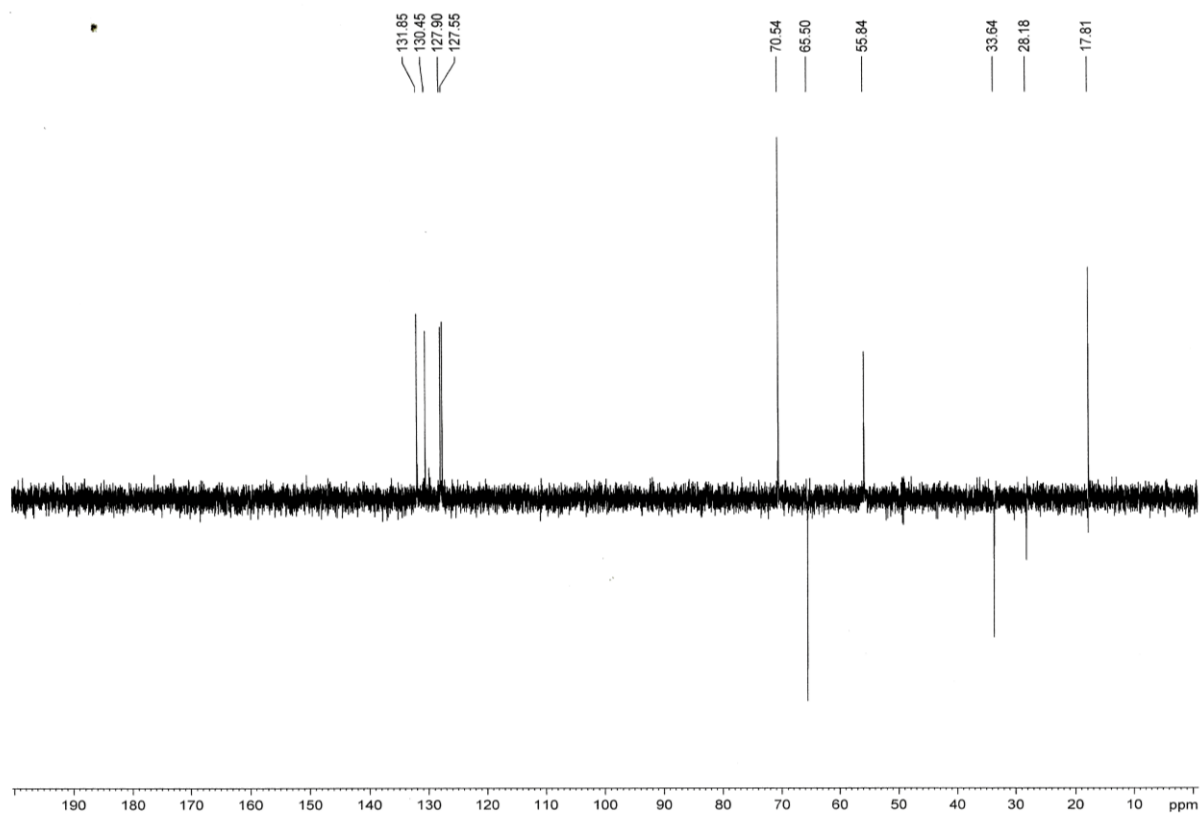


Figure S35. ^{13}C DEPT 135° (125 MHz, MeOD) spectrum of compound **4**.

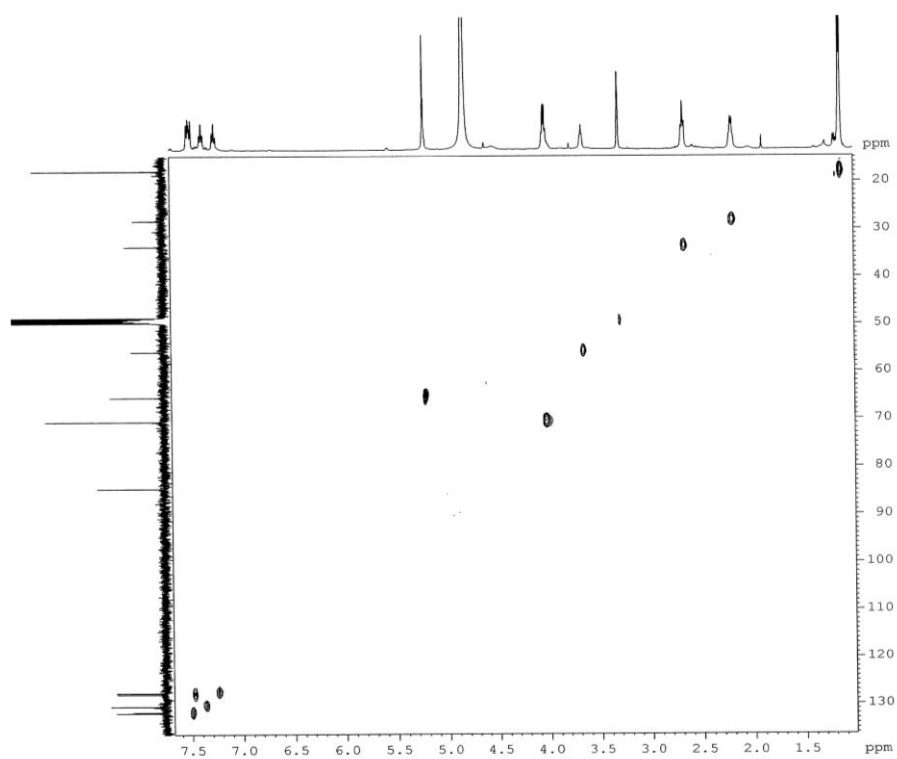


Figure S36. HSQC (500 MHz, MeOD) spectrum of compound **4**.

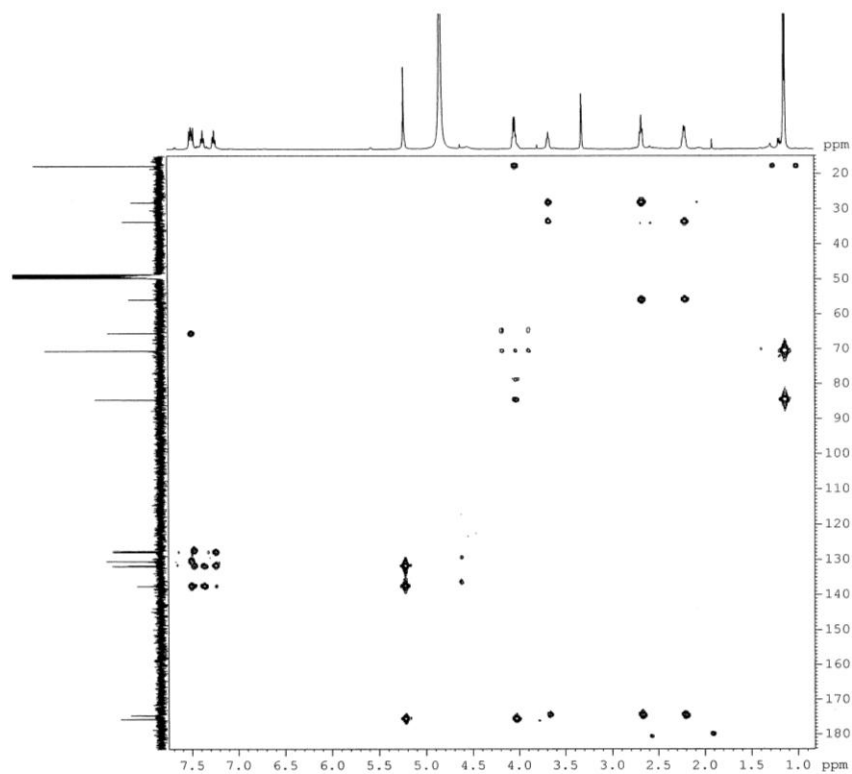


Figure S37. HMBC (500 MHz, MeOD) spectrum of compound **4**.

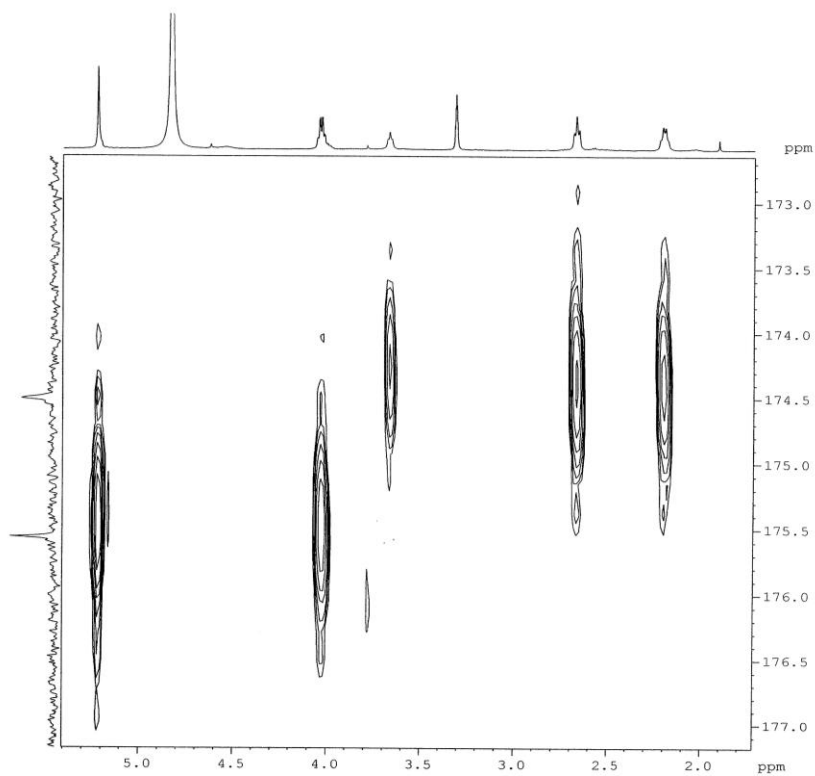


Figure S38. HMBC (500 MHz, MeOD) spectrum, from 1.8 to 5.3 ppm, of compound **4**.

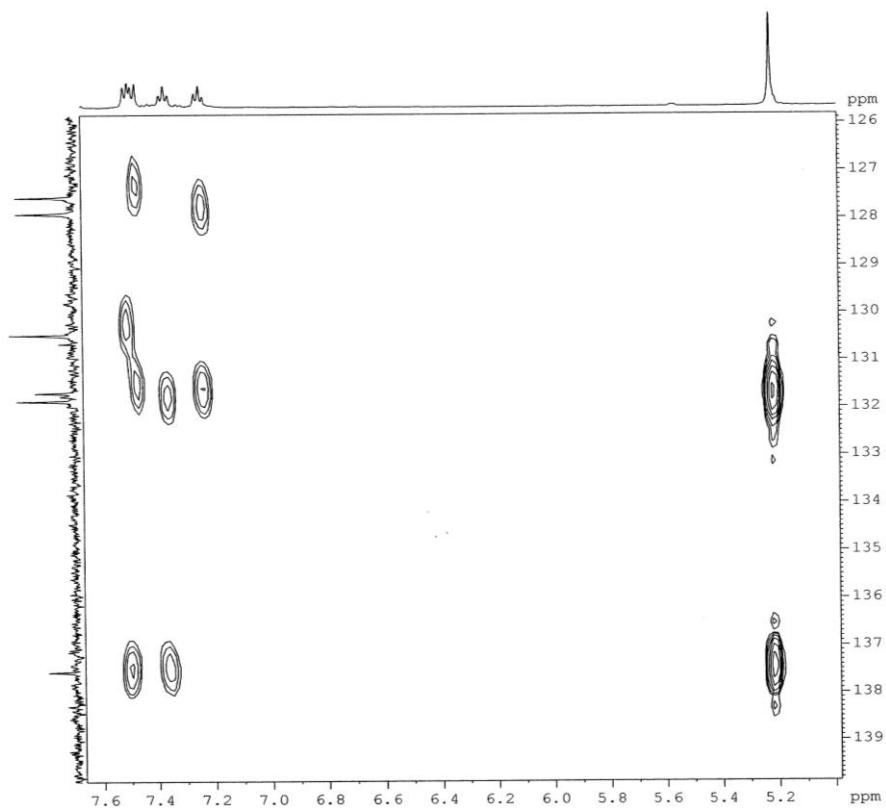


Figure S39. HMBC (500 MHz, MeOD) spectrum, from 5.0 to 7.6 ppm, of compound **4**.

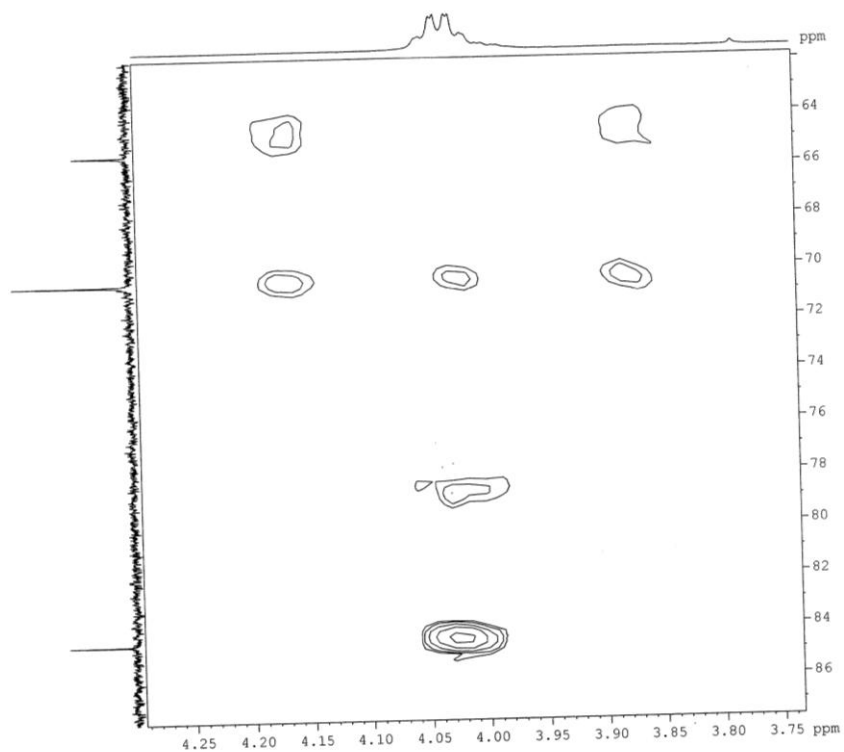
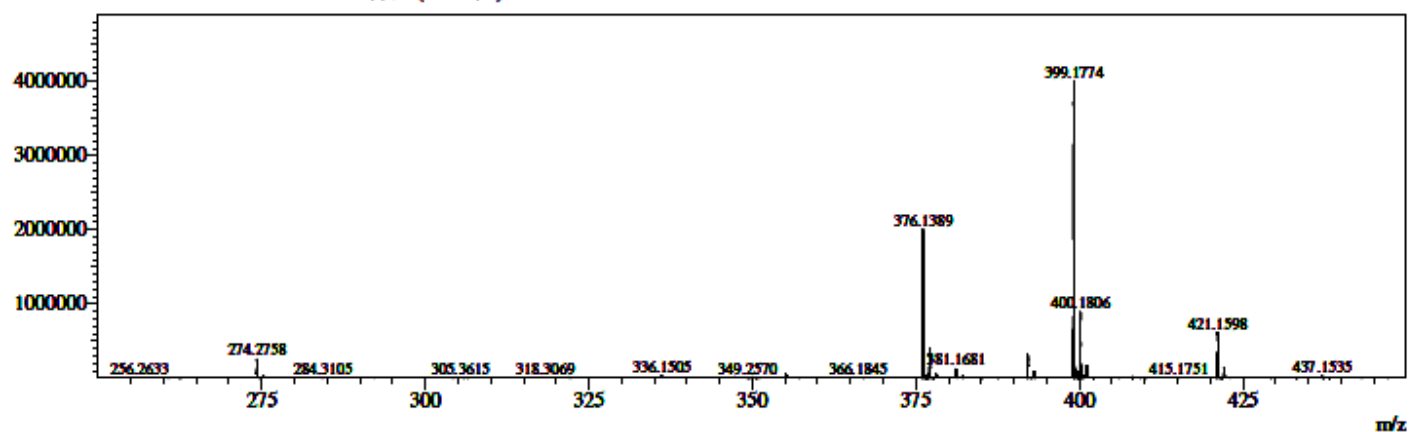


Figure S40. HMBC (500 MHz, MeOD) spectrum, from 3.75 to 4.25 ppm, of compound **4**.

MSMS: Precursor m/z — /+ Base Peak 399.18(4002498)



MSMS: Precursor m/z — /- Base Peak 397.16(3759052)

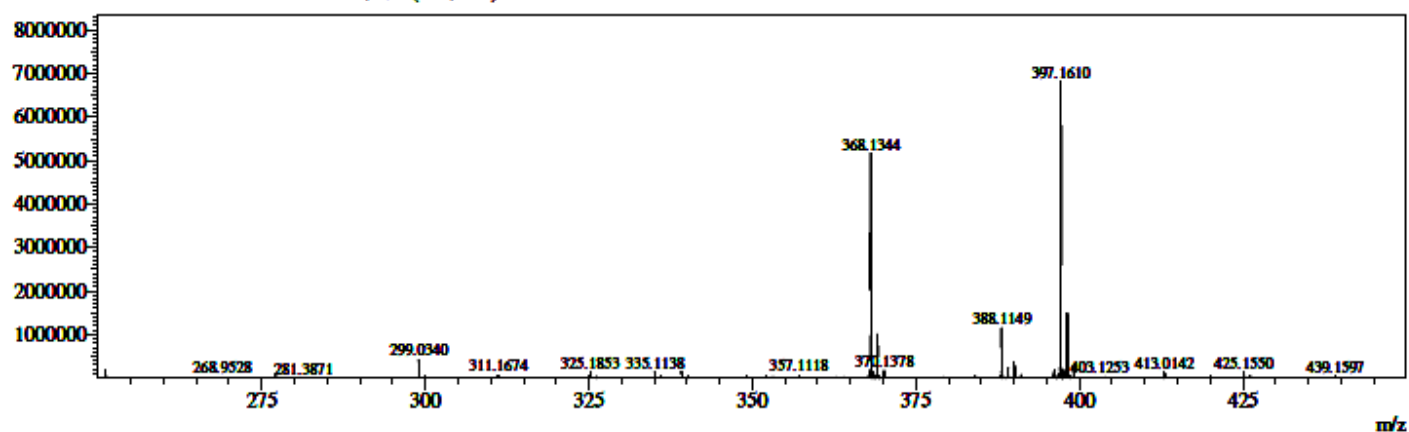


Figure S41. HRESIMS spectrum (positive and negative mode) of compound 4.

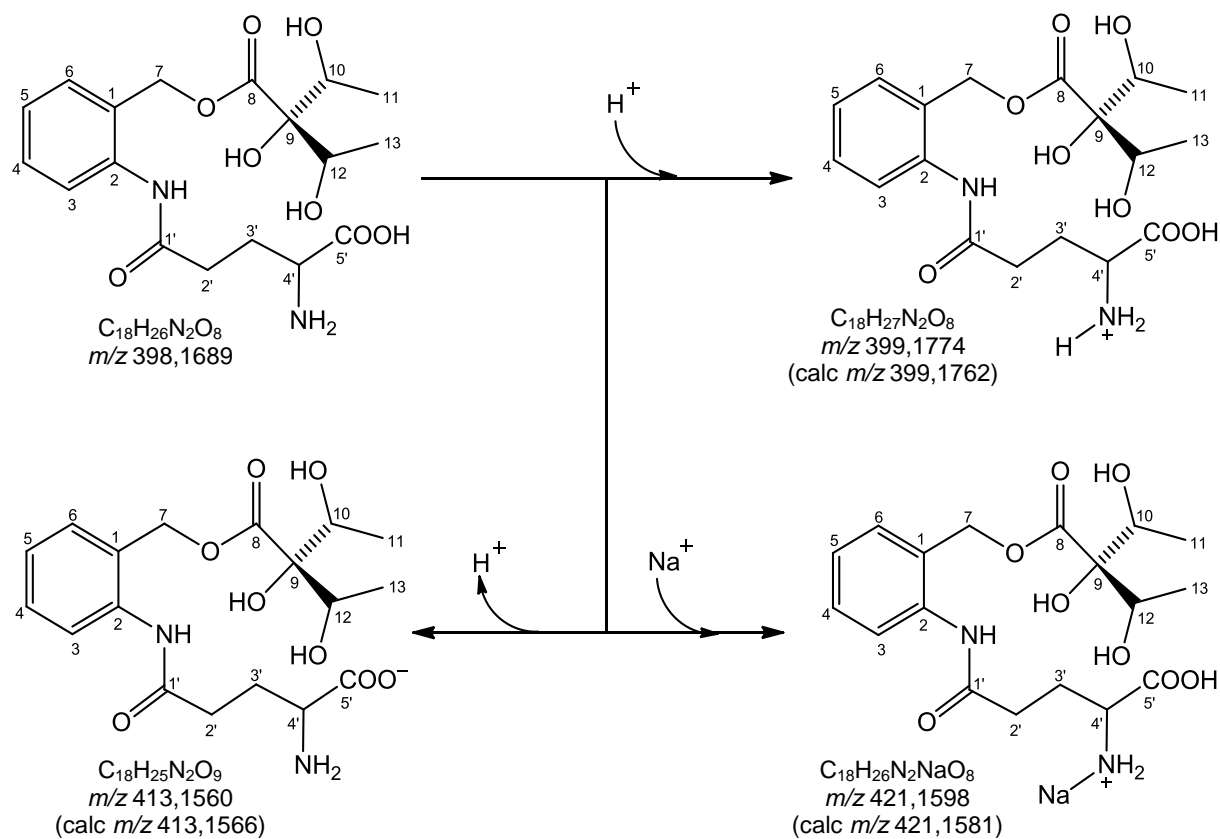


Figure S42. Proposed fragmentation of compound 4.