

Electronic Supplementary Information (ESI)

New α -Pyrones from an Endophytic Fungus, *Hypoxylon investiens* J2

Chao Yuan,^a Hong-Xia Yang,^b Yu-Hua Guo,^c Lin Fan,^d Ying-Bo Zhang,^a Gang Li^{b,*}

^aTropical Crops Genetic Resources Institute, Chinese Academy of Tropical Agricultural Sciences CATAS, Haikou 571101, People's Republic of China.

^bDepartment of Natural Medicinal Chemistry and Pharmacognosy, School of Pharmacy, Qingdao University, Qingdao 266021, People's Republic of China.

^cShandong Drug and Food Vocational College, Weihai, Shandong 264210, People's Republic of China.

^dWeihai Vocational College, Weihai 264210, People's Republic of China.

*Corresponding Author:

Tel: +86-532-82991172; E-mail: gang.li@qdu.edu.cn

Table of Contents	Pages
Figure S1. ^1H NMR spectrum of compound 1 (500 MHz, CD_3OD).	3
Figure S2. ^{13}C NMR spectrum of compound 1 (125 MHz, CD_3OD).	4
Figure S3. HSQC spectrum of compound 1 (500 MHz, CD_3OD).	5
Figure S4. HMBC spectrum of compound 1 (500 MHz, CD_3OD).	6
Figure S5. NOSEY spectrum of compound 1 (500 MHz, CD_3OD).	7
Figure S6. Positive ESI-HRMS spectrum of compound 1 .	8
Figure S7. ^1H NMR spectrum of compound 2 (500 MHz, CD_3OD).	9
Figure S8. ^{13}C NMR spectrum of compound 2 (125 MHz, CD_3OD).	10
Figure S9. HSQC spectrum of compound 2 (500 MHz, CD_3OD).	11
Figure S10. HMBC spectrum of compound 2 (500 MHz, CD_3OD).	12
Figure S11. Positive ESI-HRMS spectrum of compound 2 .	13
Figure S12. ^1H NMR spectrum of compound 3 (500 MHz, CD_3OD).	14
Figure S13. ^{13}C NMR spectrum of compound 3 (125 MHz, CD_3OD).	15
Figure S14. HSQC spectrum of compound 3 (500 MHz, CD_3OD).	16
Figure S15. HMBC spectrum of compound 3 (500 MHz, CD_3OD).	17
Figure S16. Positive ESI-HRMS spectrum of compound 3 .	18
Figure S17. ^1H NMR spectrum of compound 4 (500 MHz, CD_3OD).	19
Figure S18. ^{13}C NMR spectrum of compound 4 (125 MHz, CD_3OD).	20
Figure S19. HSQC spectrum of compound 4 (500 MHz, CD_3OD).	21
Figure S20. HMBC spectrum of compound 4 (500 MHz, CD_3OD).	22
Figure S21. Positive ESI-HRMS spectrum of compound 4 .	23

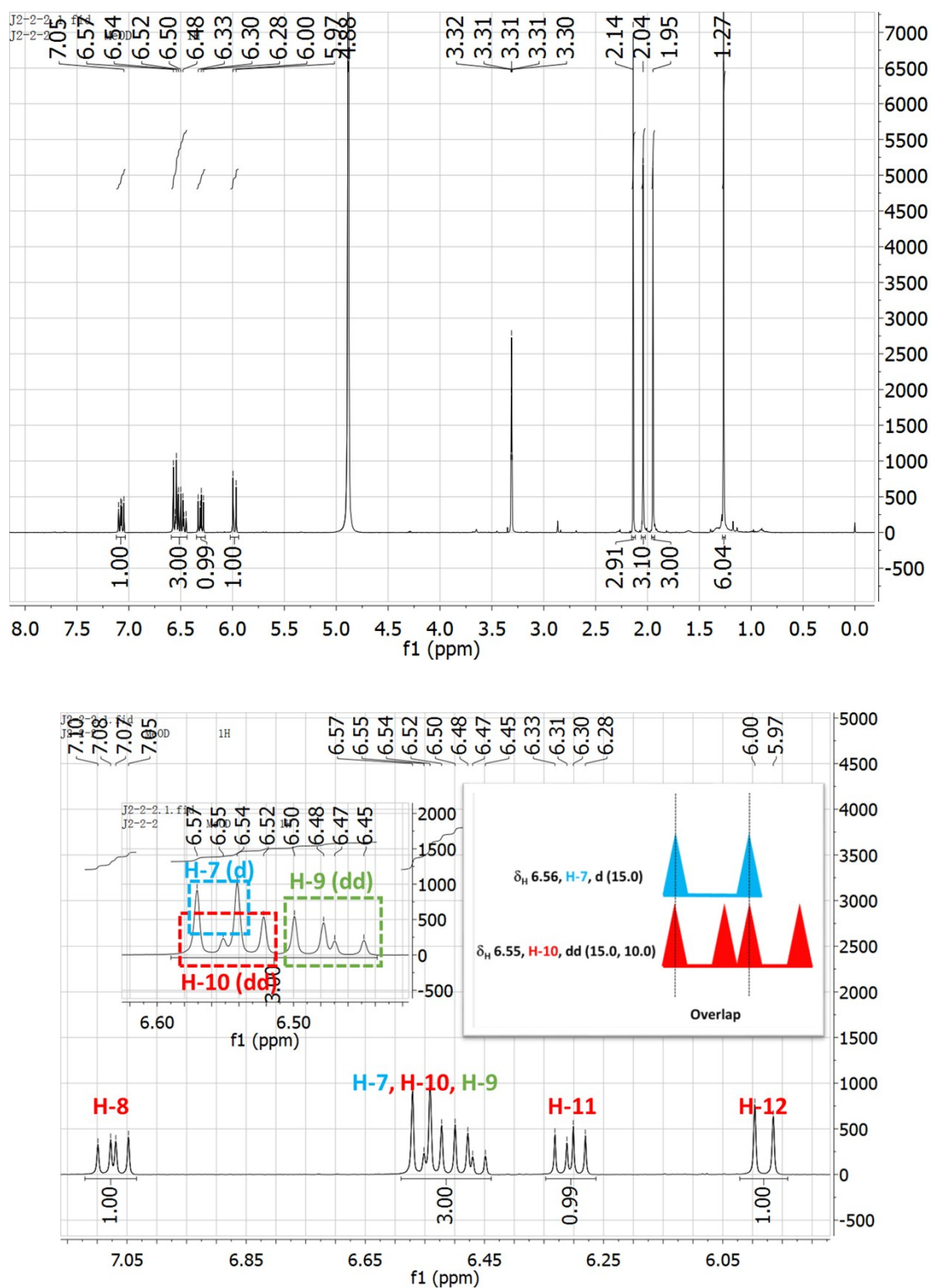


Figure S1. ^1H NMR spectrum of compound **1** (500 MHz, CD_3OD).

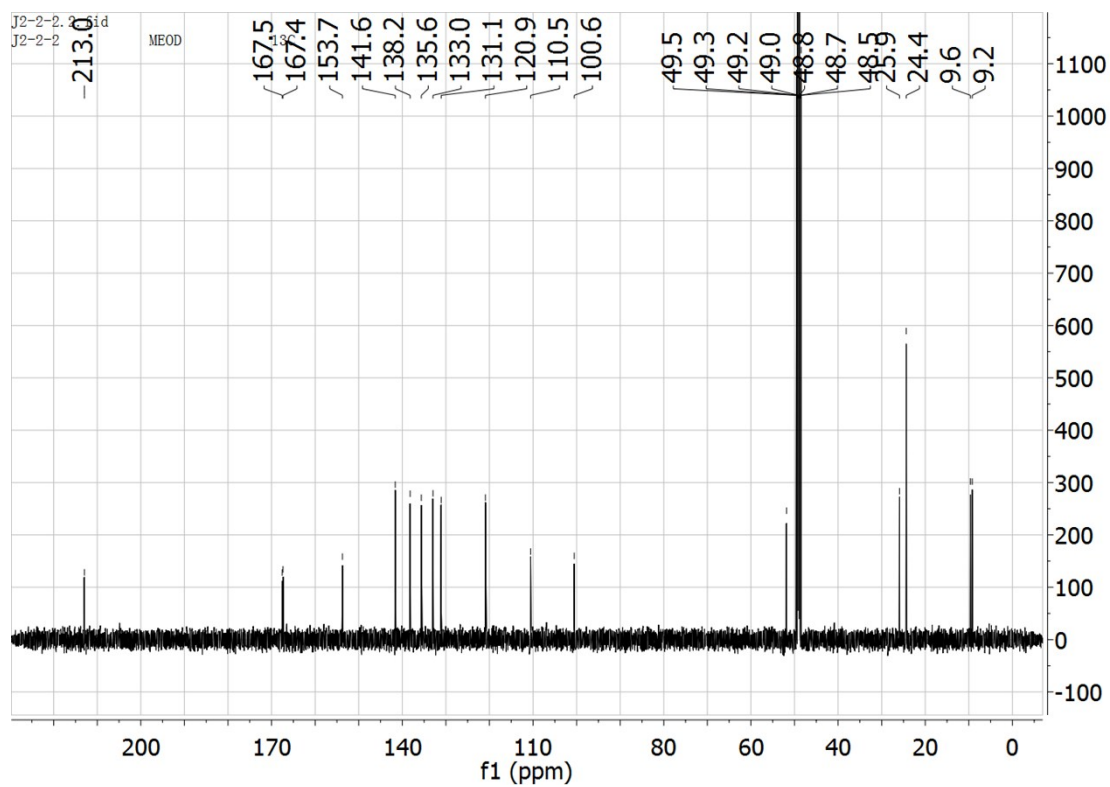


Figure S2. ¹³C NMR spectrum of compound **1** (125 MHz, CD₃OD).

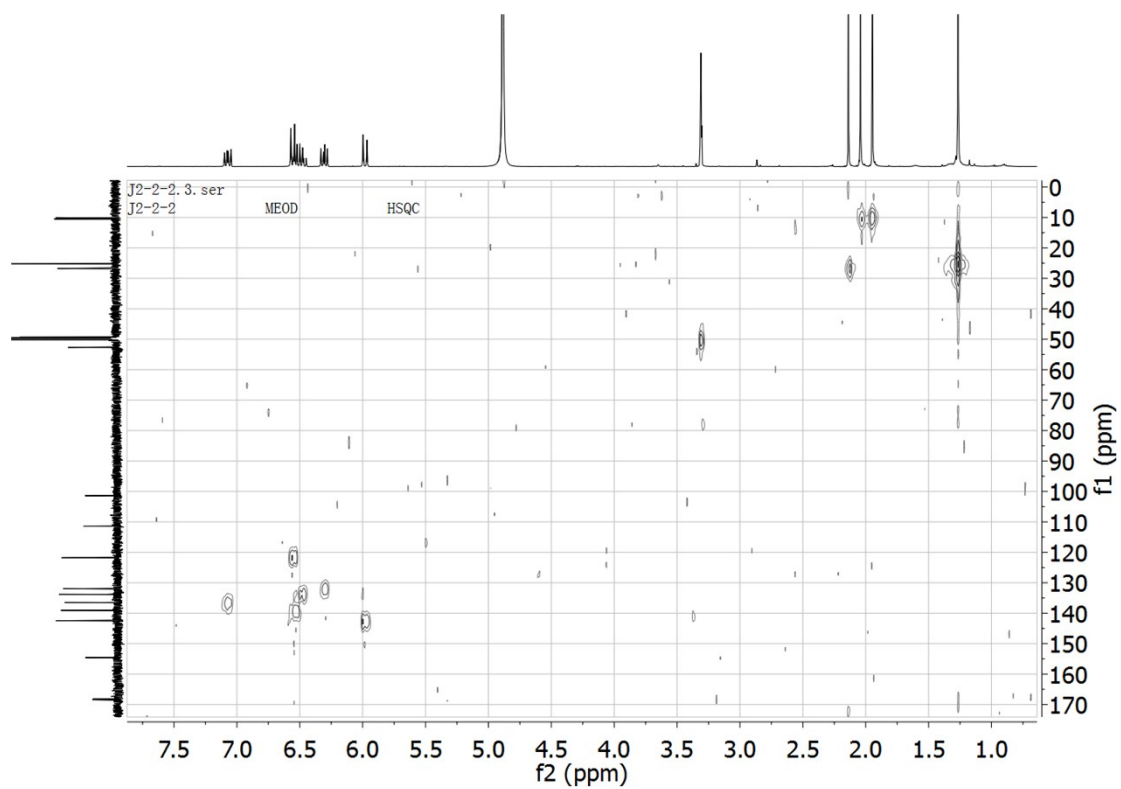
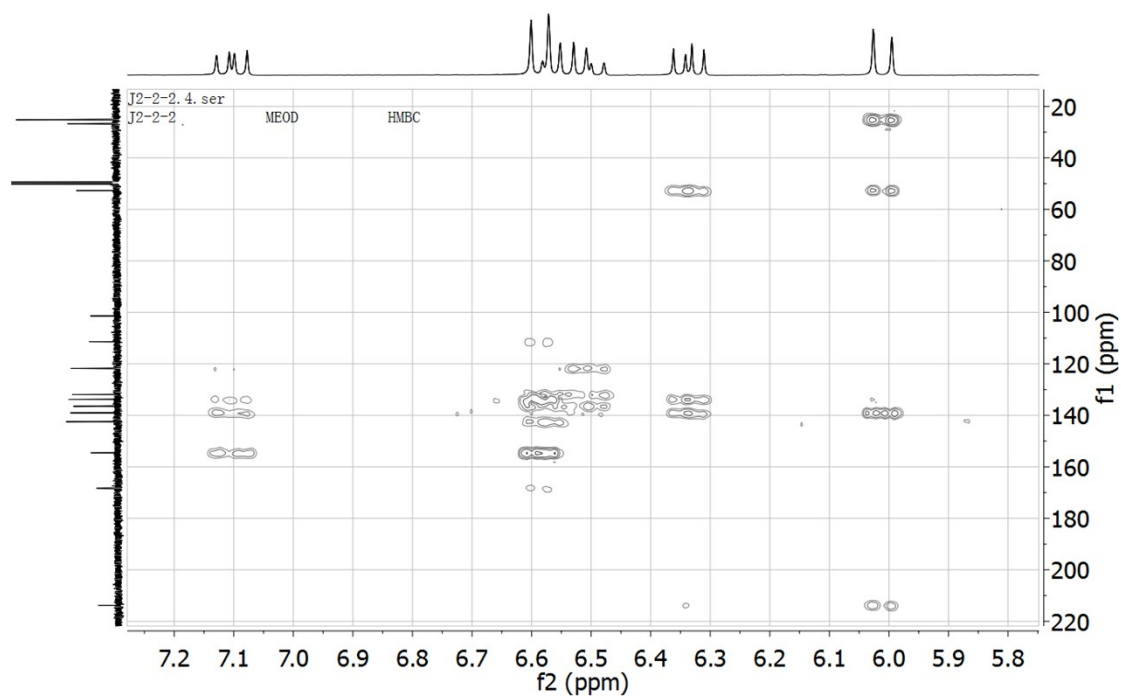
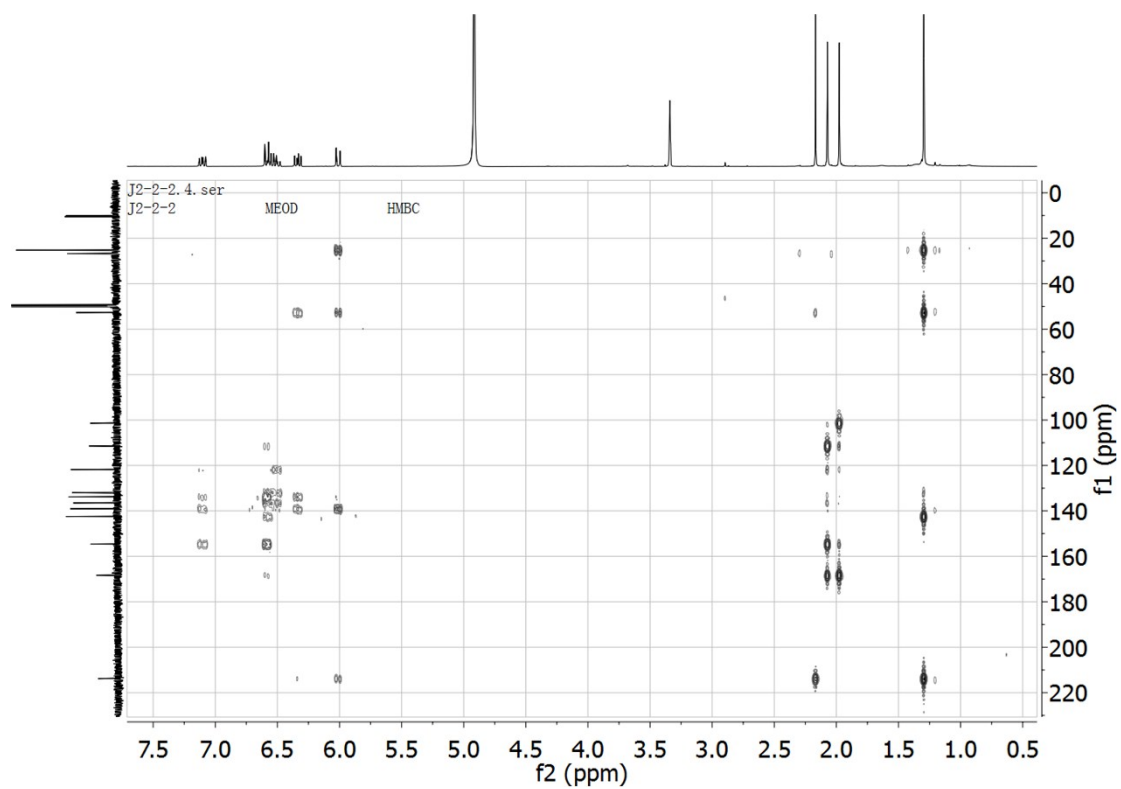


Figure S3. HSQC spectrum of compound **1** (500 MHz, CD₃OD).



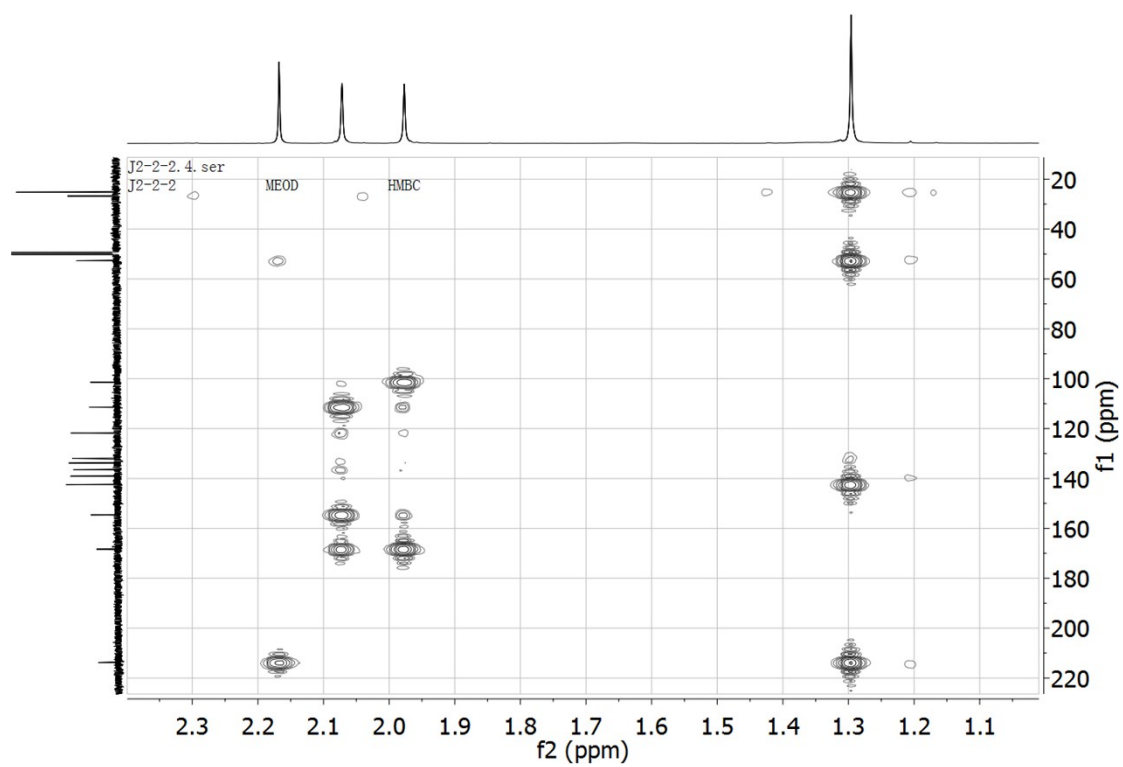


Figure S4. HMBC spectrum of compound **1** (500 MHz, CD₃OD).

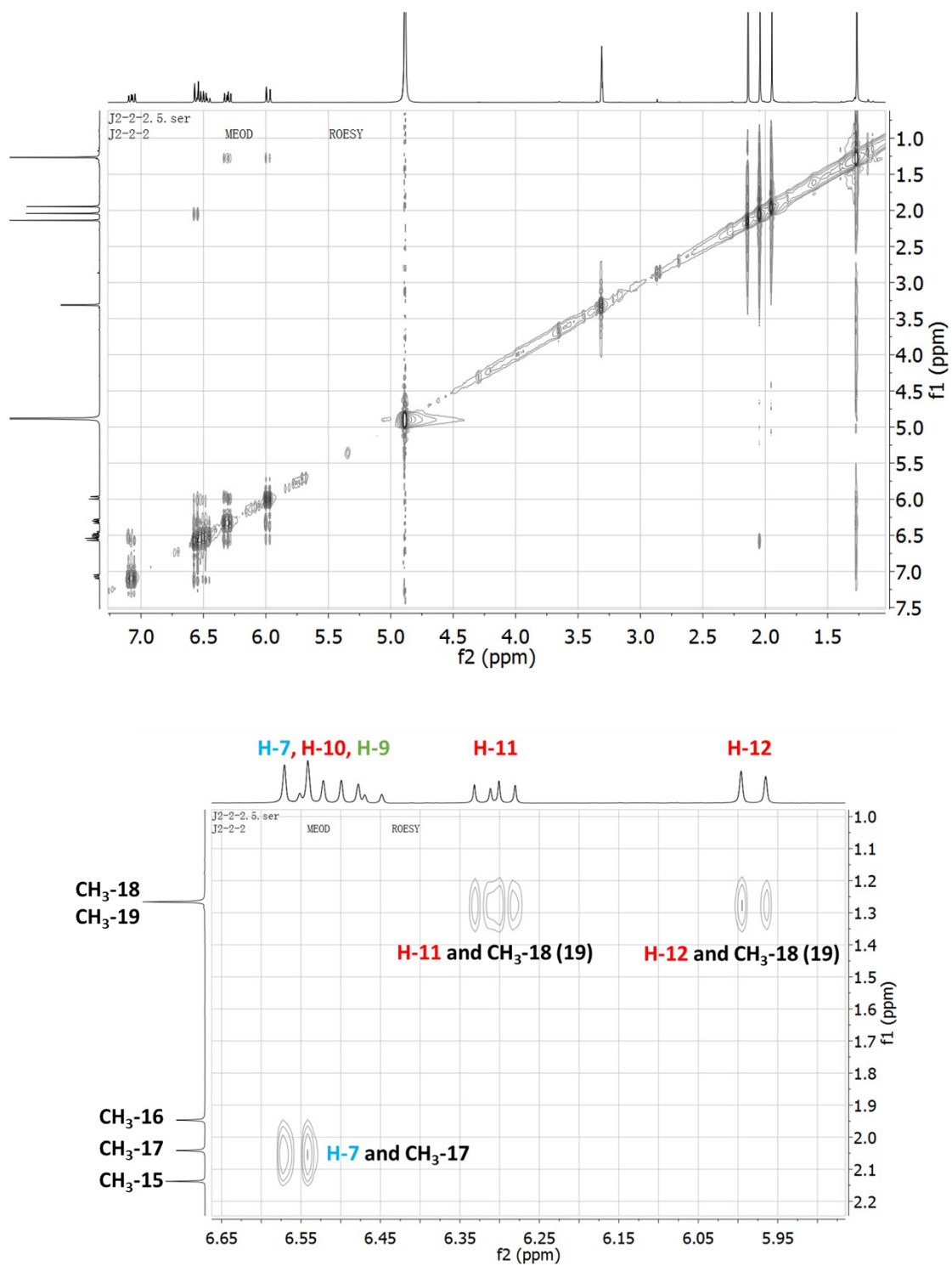


Figure S5. NOSEY spectrum of compound **1** (500 MHz, CD₃OD).

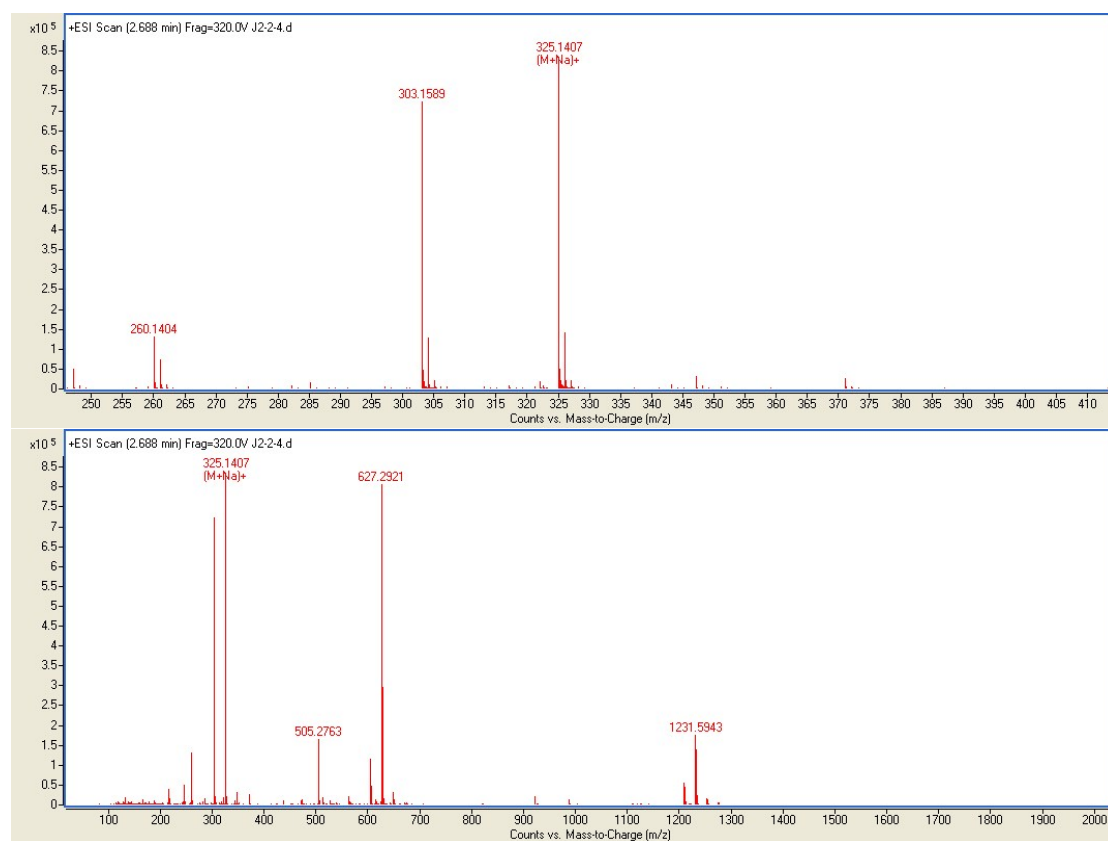


Figure S6. Positive ESI-HRMS spectrum of compound **1**.

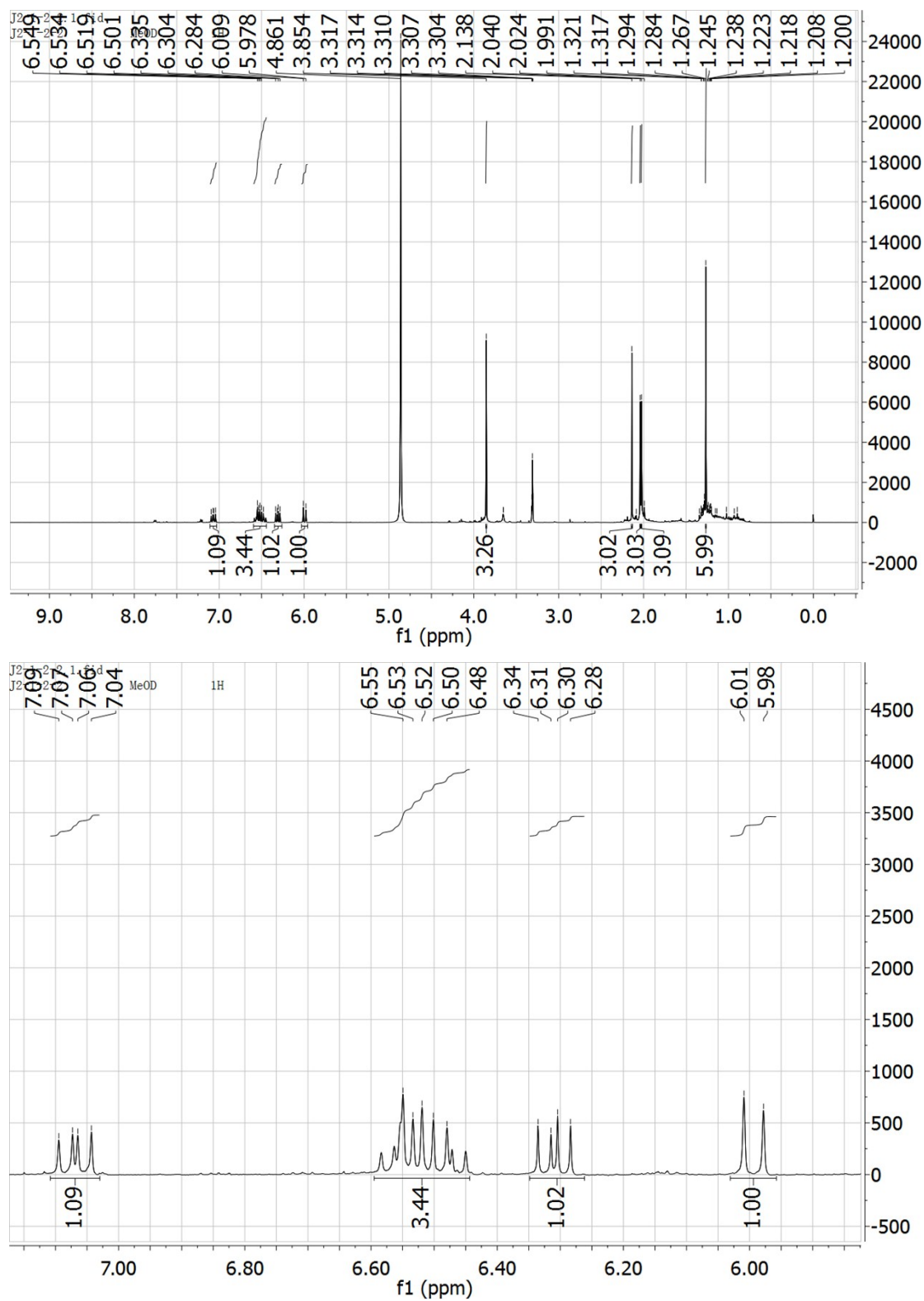


Figure S7. ^1H NMR spectrum of compound **2** (500 MHz, CD_3OD).

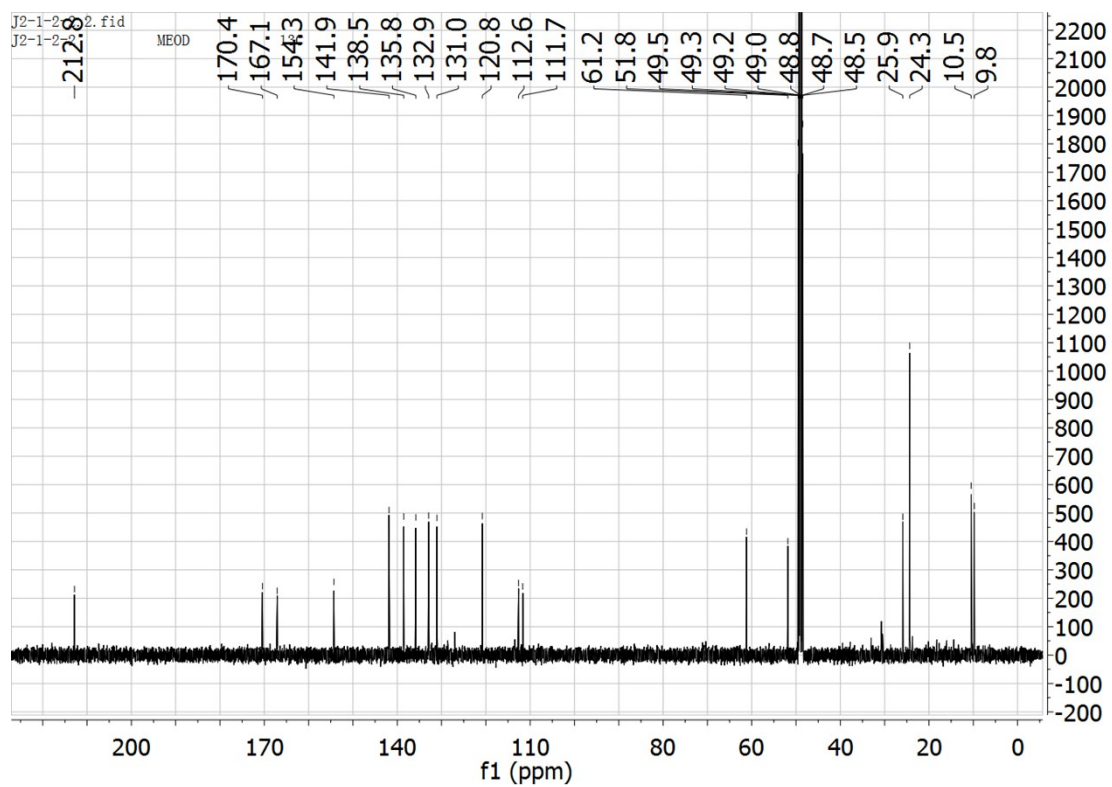


Figure S8. ¹³C NMR spectrum of compound **2** (125 MHz, CD₃OD).

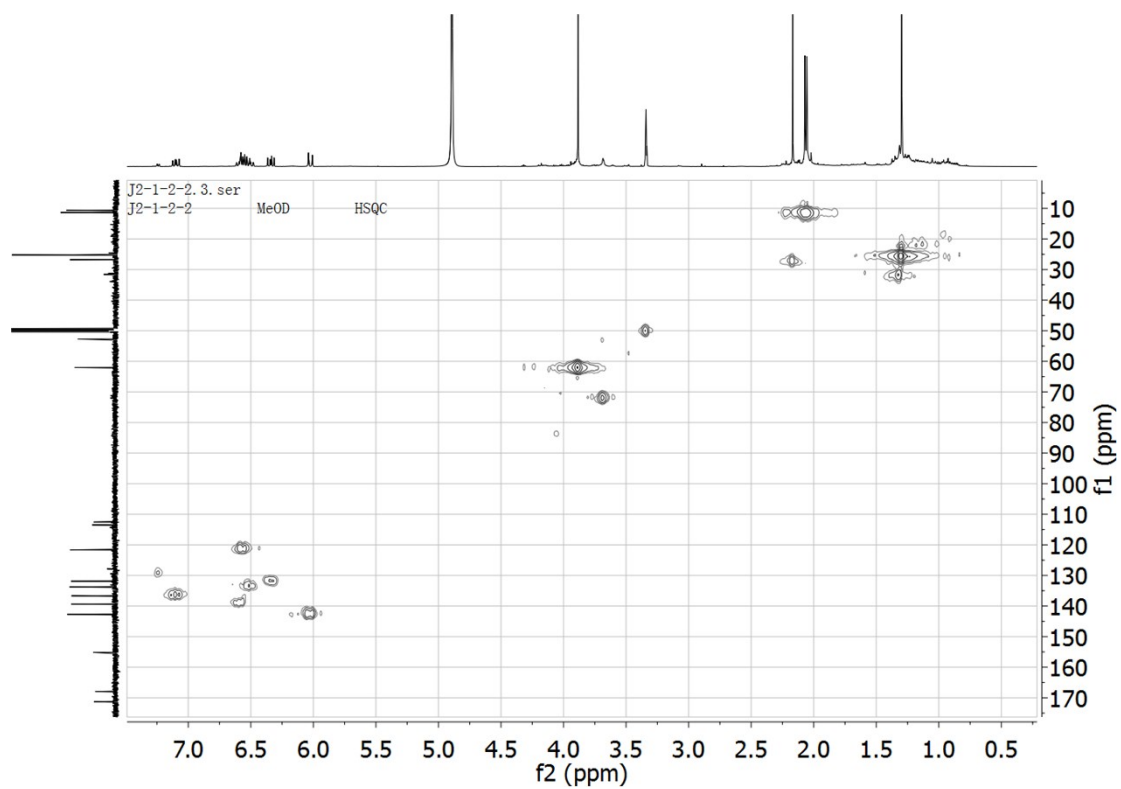


Figure S9. HSQC spectrum of compound **2** (500 MHz, CD₃OD).

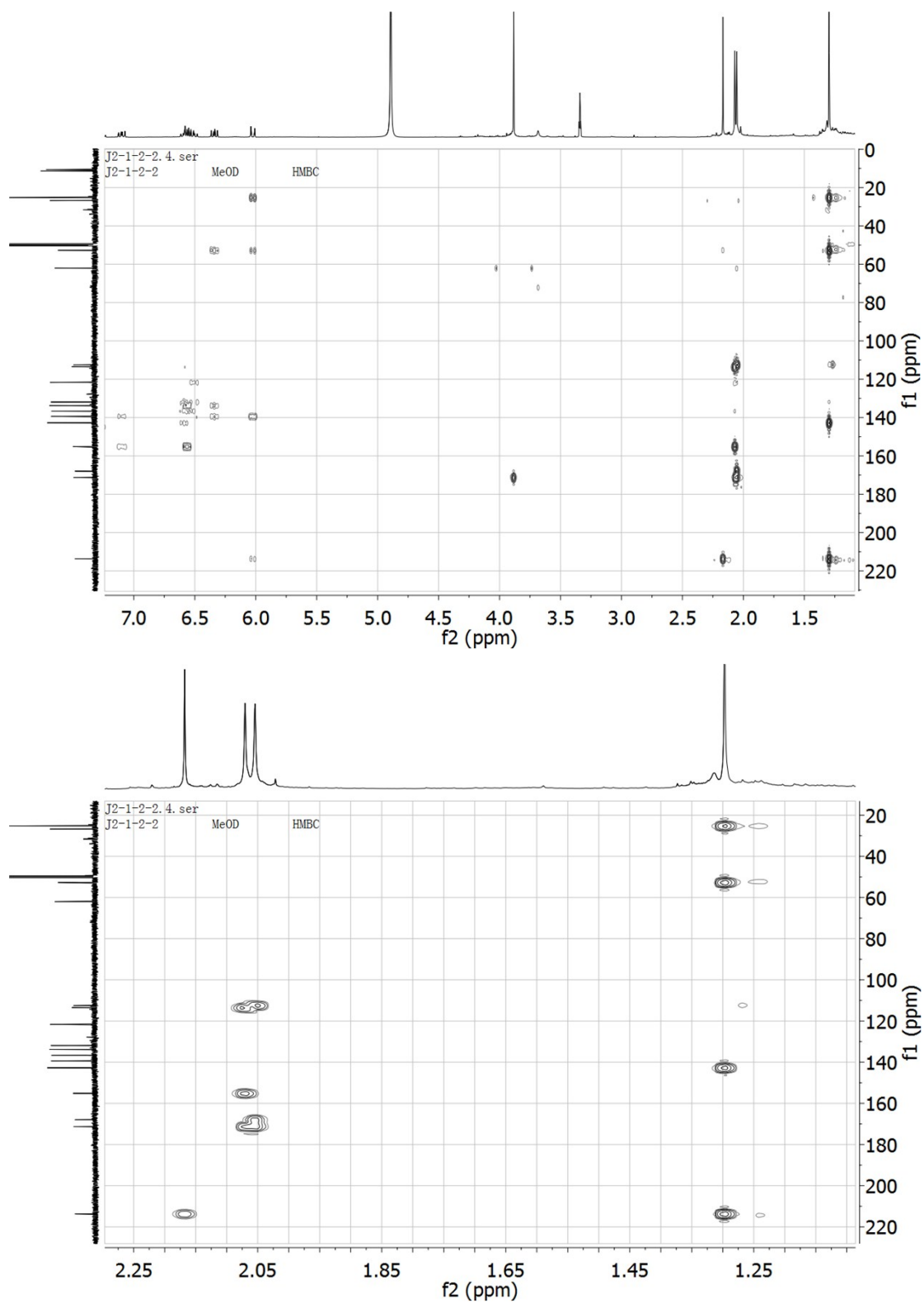


Figure S10. HMBC spectrum of compound **2** (500 MHz, CD₃OD).

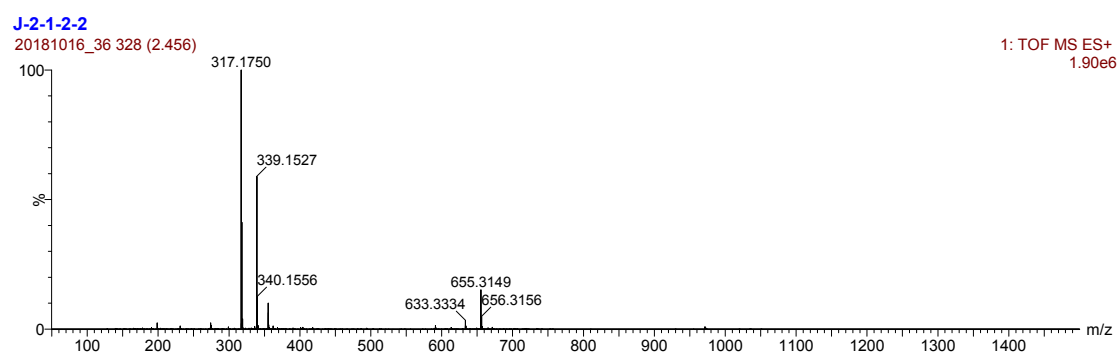


Figure S11. Positive ESI-HRMS spectrum of compound **2**.

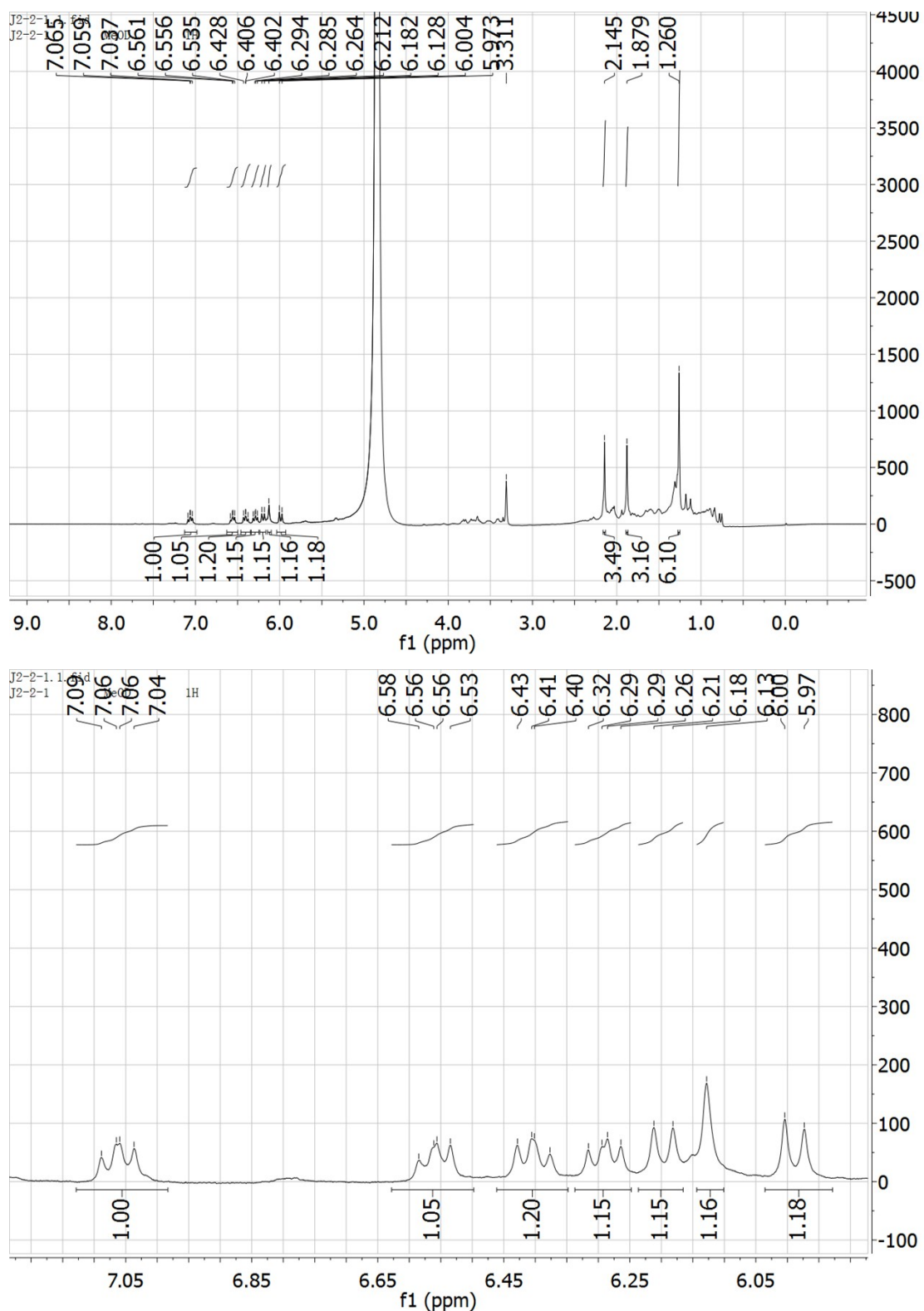


Figure S12. ^1H NMR spectrum of compound **3** (500 MHz, CD_3OD).

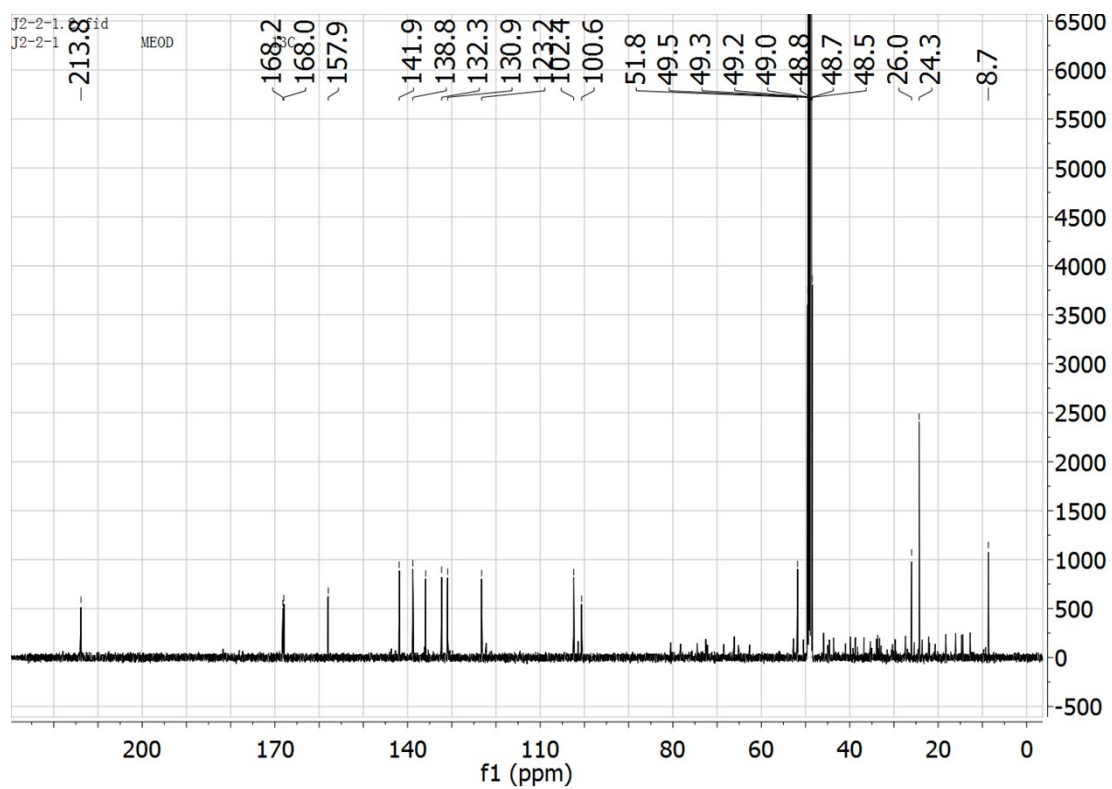


Figure S13. ¹³C NMR spectrum of compound **3** (125 MHz, CD₃OD).

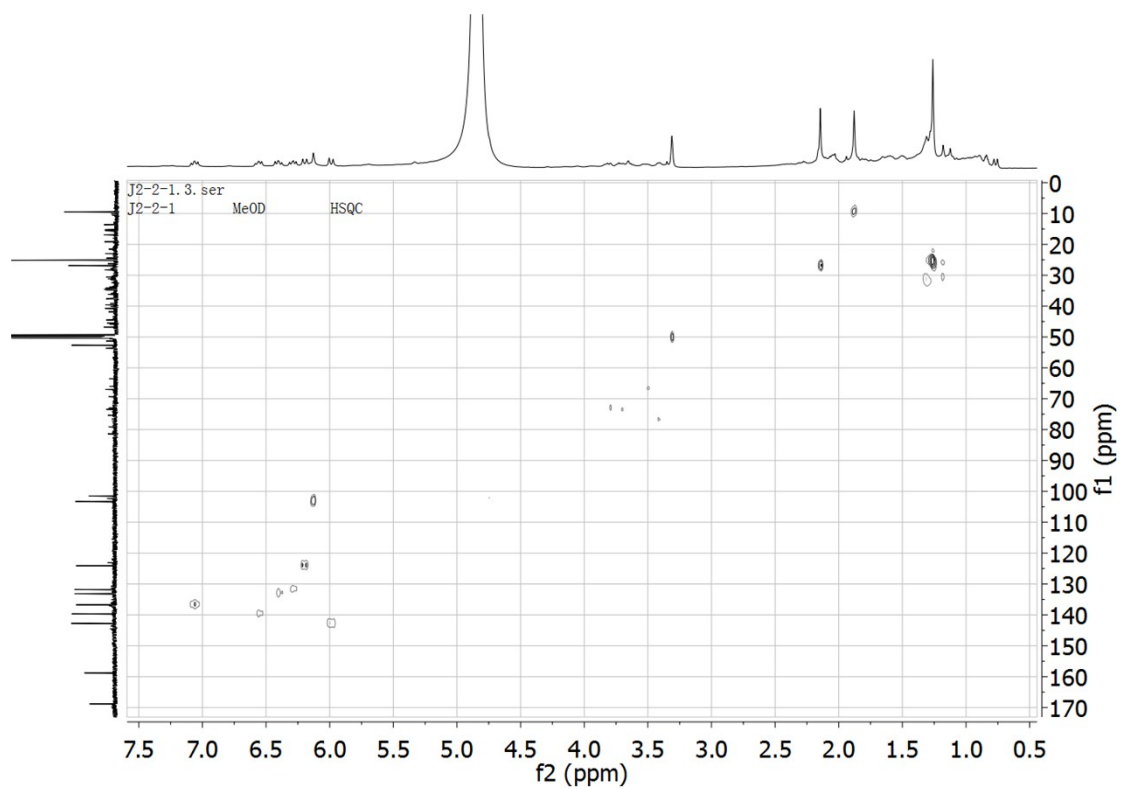


Figure S14. HSQC spectrum of compound **3** (500 MHz, CD₃OD).

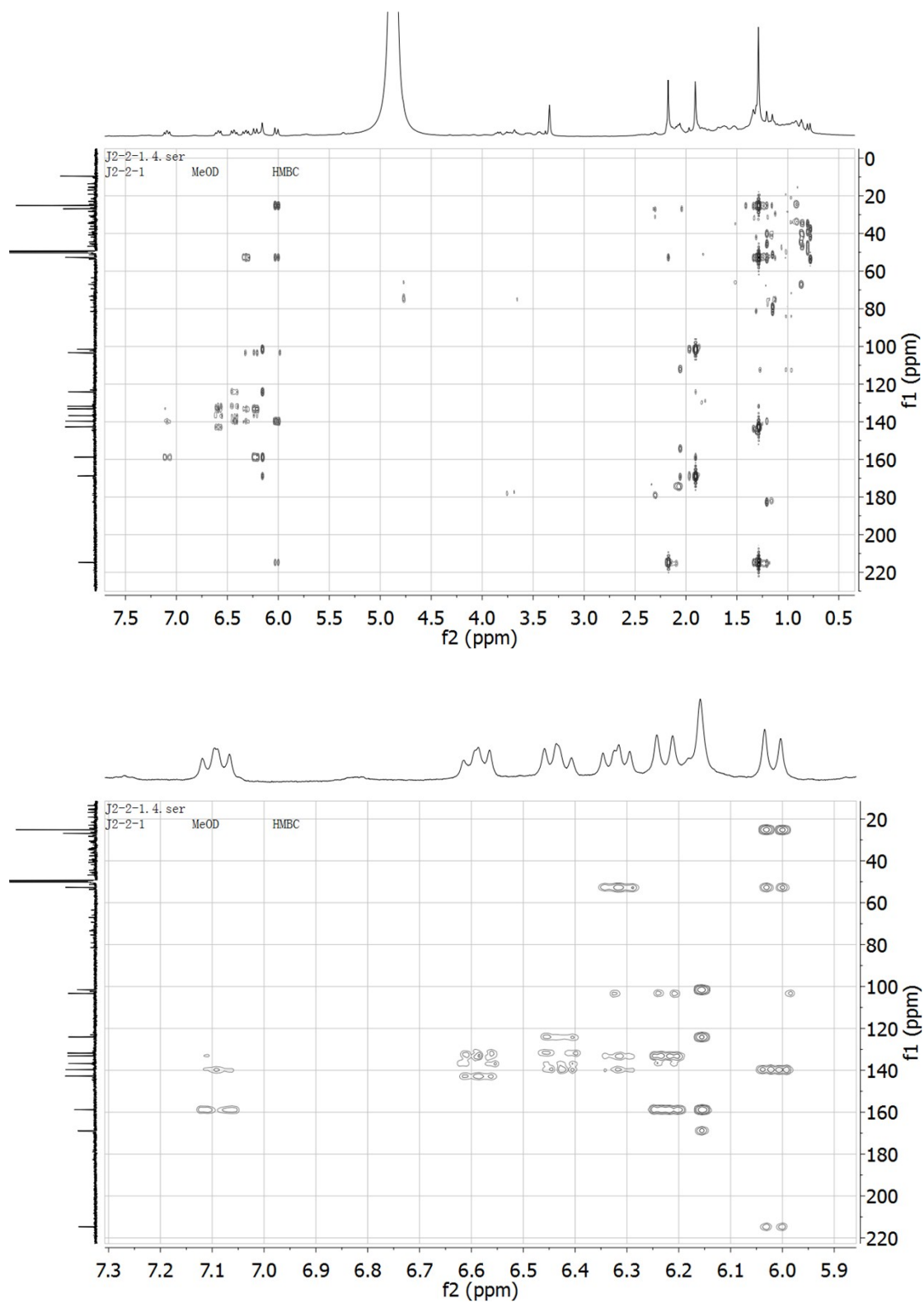


Figure S15. HMBC spectrum of compound **3** (500 MHz, CD_3OD).

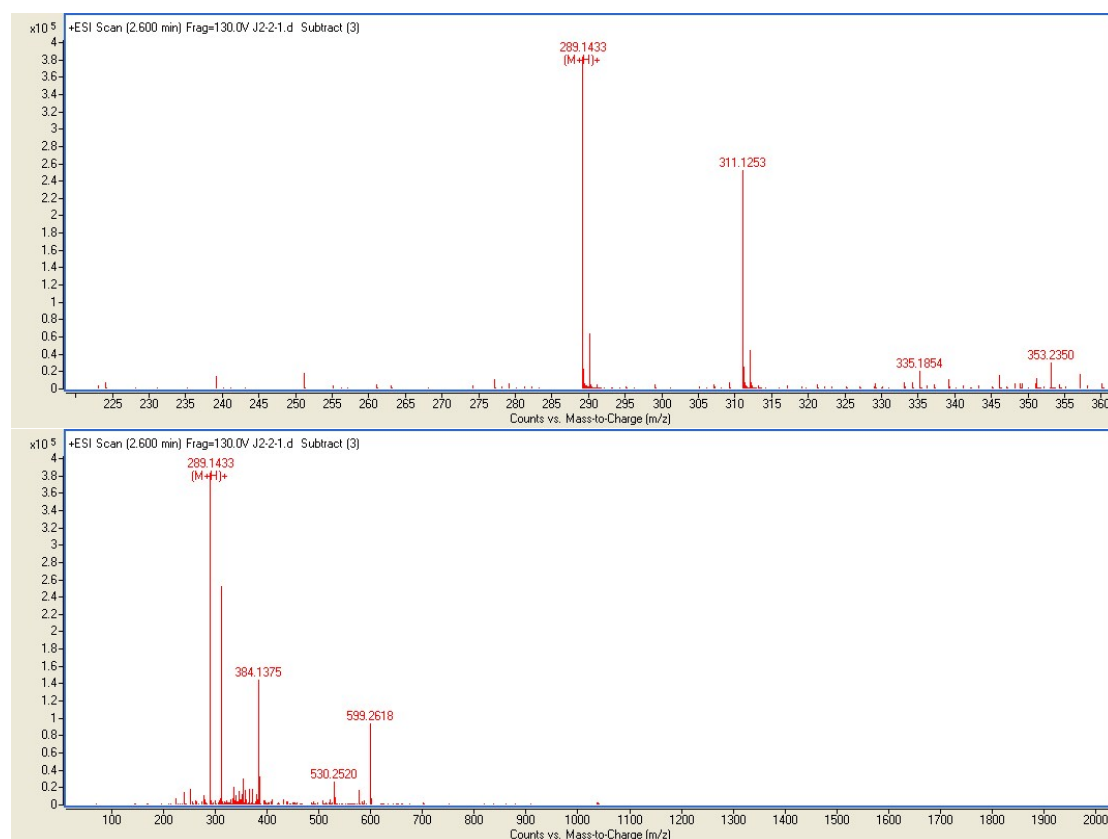


Figure S16. Positive ESI-HRMS spectrum of compound **3**.

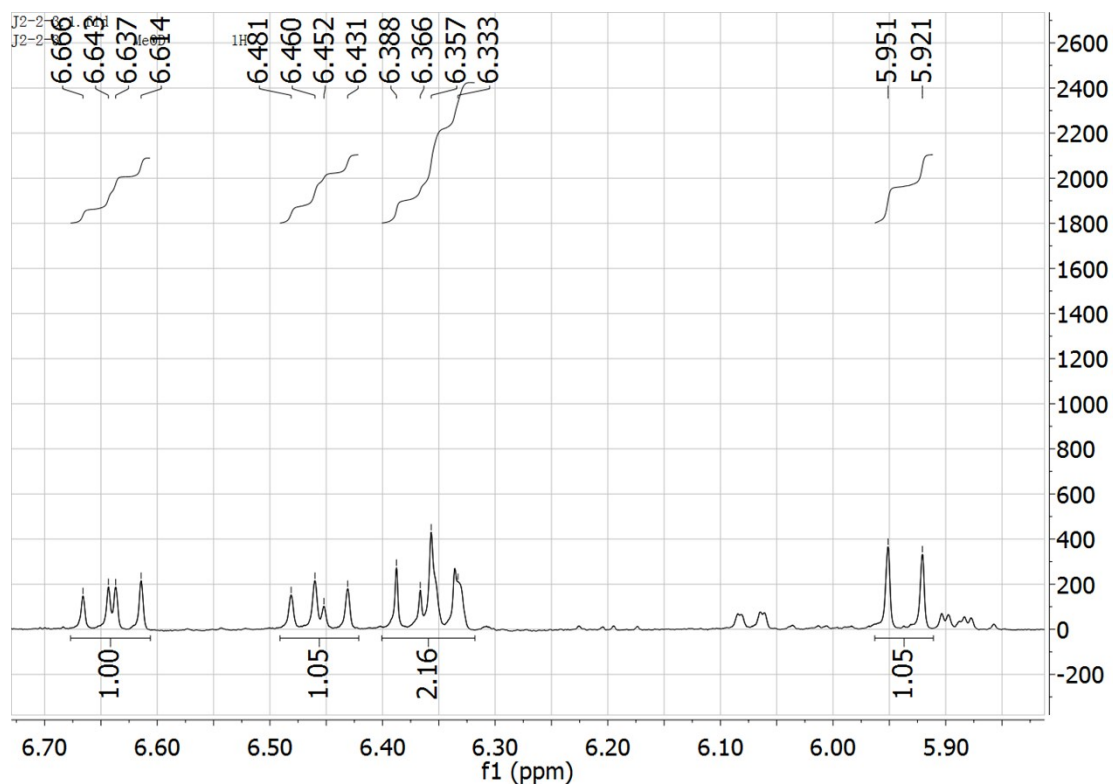
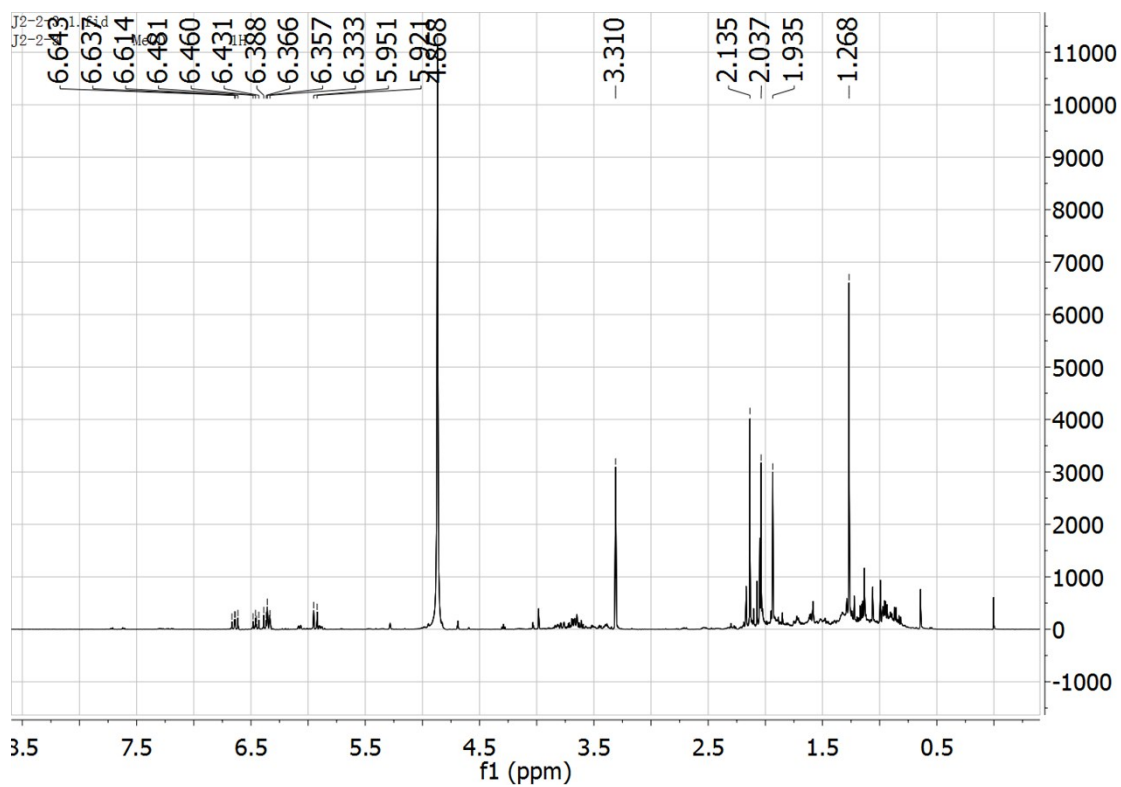


Figure S17. ¹H NMR spectrum of compound 4 (500 MHz, CD₃OD).

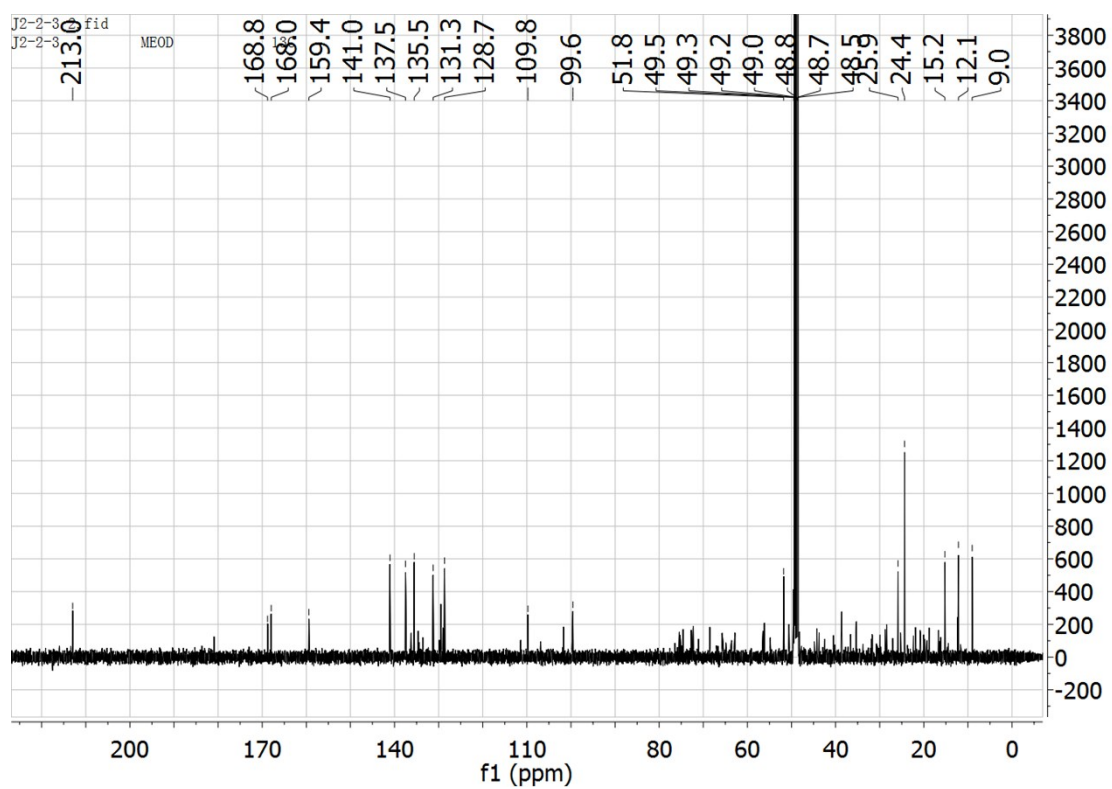


Figure S18. ¹³C NMR spectrum of compound **4** (125 MHz, CD₃OD).

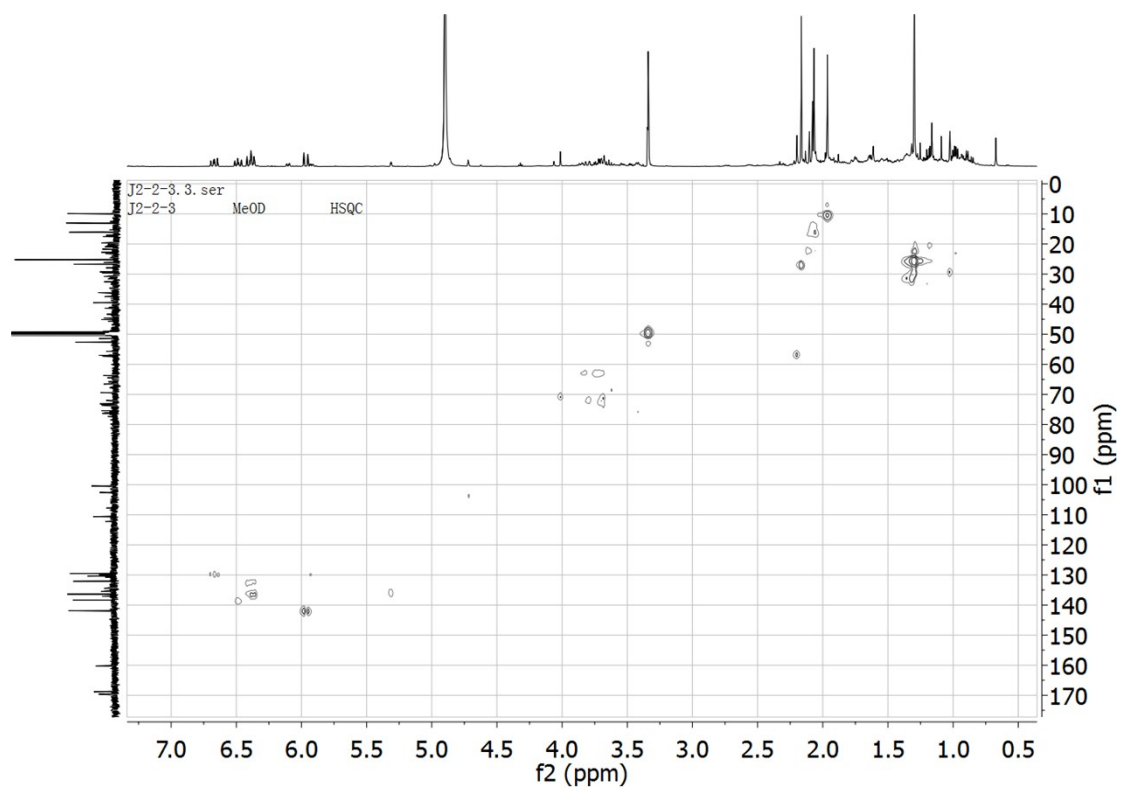


Figure S19. HSQC spectrum of compound **4** (500 MHz, CD₃OD).

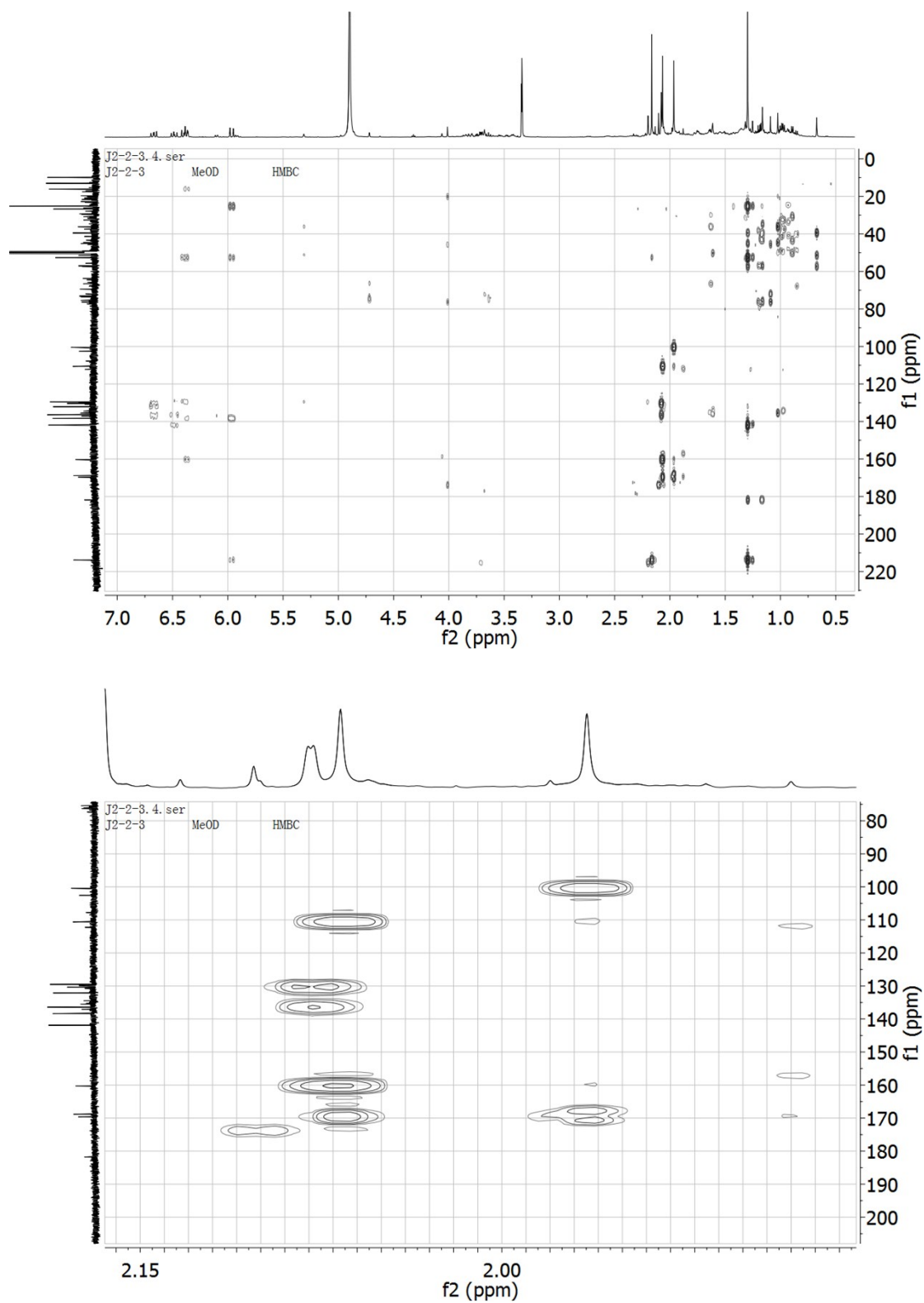


Figure S20. HMBC spectrum of compound **4** (500 MHz, CD₃OD).

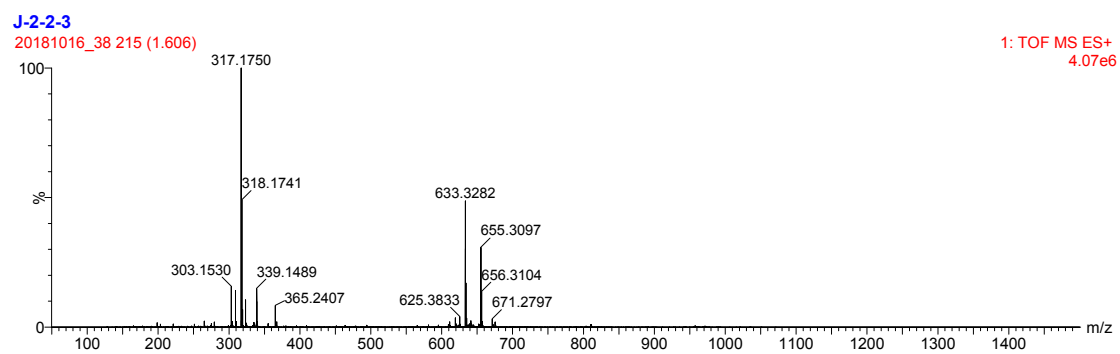


Figure S21. Positive ESI-HRMS spectrum of compound **4**.