

Supplementary Information

Altenusin Derivatives from Mangrove Endophytic Fungus

***Alternaria* sp. SK6YW3L**

Yayue Liu ^{ab}, Yingnan Wu ^a, Rui Zhai ^a, Zhaoming Liu ^a, Xishan Huang ^{*a}, Zhigang She ^{*ac}

^a School of Chemistry and Chemical Engineering, Sun Yat-sen University, Guangzhou 510275, China. E-mail: huangxishan13@foxmail.com; cesshzhg@mail.sysu.edu.cn. Tel/Fax: +86 020 84113356.

^b College of Food Science and Technology, Guangdong Ocean University, Zhanjiang 524025, China

^c South China Sea Bio-Resource Exploitation and Utilization Collaborative Innovation Center, Guangzhou 510006, China.

Contents

Figure S1. HR-ESI-MS spectrum of compound 1	4
Figure S2. ¹ H NMR (500 MHz, CDCl ₃) spectrum of compound 1	4
Figure S3. ¹³ C NMR (500 MHz, CDCl ₃) spectrum of 1	5
Figure S4. ¹ H– ¹ H COSY spectrum of compound 1	5
Figure S5. HSQC spectrum of compound 1	6
Figure S6. HMBC spectrum of compound 1	6
Figure S7. HR-ESI-MS spectrum of compound 2	7
Figure S8. ¹ H NMR (500 MHz, Methanol- <i>d</i> ₄) spectrum of compound 2	7
Figure S9. ¹³ C NMR (500 MHz, Methanol- <i>d</i> ₄) and DEPT spectra of compound 2	8
Figure S10. ¹ H– ¹ H COSY spectrum of compound 2	8
Figure S11. HSQC spectrum of compound 2	9
Figure S12. HMBC spectrum of compound 2	9
Figure S13. HR-ESI-MS spectrum of compound 3	10
Figure S14. ¹ H NMR (500 MHz, Methanol- <i>d</i> ₄) spectrum of compound 3	10
Figure S15. ¹³ C NMR (500 MHz, Methanol- <i>d</i> ₄) and DEPT spectra of compound 3	11
Figure S16. ¹ H– ¹ H COSY spectrum of compound 3	11
Figure S17. HSQC spectrum of compound 3	12
Figure S18. HMBC spectrum of compound 3	12
Figure S19. NOESY spectrum of compound 3	13
Figure S20. HR-ESI-MS spectrum of compound 4	13
Figure S21. ¹ H NMR (500 MHz, Methanol- <i>d</i> ₄) spectrum of compound 4	14
Figure S22. ¹³ C NMR (500 MHz, Methanol- <i>d</i> ₄) and DEPT spectra of compound 4 ...14	
Figure S23. ¹ H– ¹ H COSY spectrum of compound 4	15
Figure S24. HSQC spectrum of compound 4	15
Figure S25. HMBC spectrum of compound 4	16
Figure S26. HR-ESI-MS spectrum of compound 5	16
Figure S27. ¹ H NMR (500 MHz, Methanol- <i>d</i> ₄) spectrum of compound 5	17
Figure S28. ¹³ C NMR (500 MHz, Methanol- <i>d</i> ₄) and DEPT spectra of 5	17

Figure S29. ^1H – ^1H COSY spectrum of compound 5	18
Figure S30. HSQC spectrum of compound 5	18
Figure S31. HMBC spectrum of compound 5	19
Figure S32. NOESY spectrum of compound 5	19

Figure S1. HR-ESI-MS spectrum of compound **1**

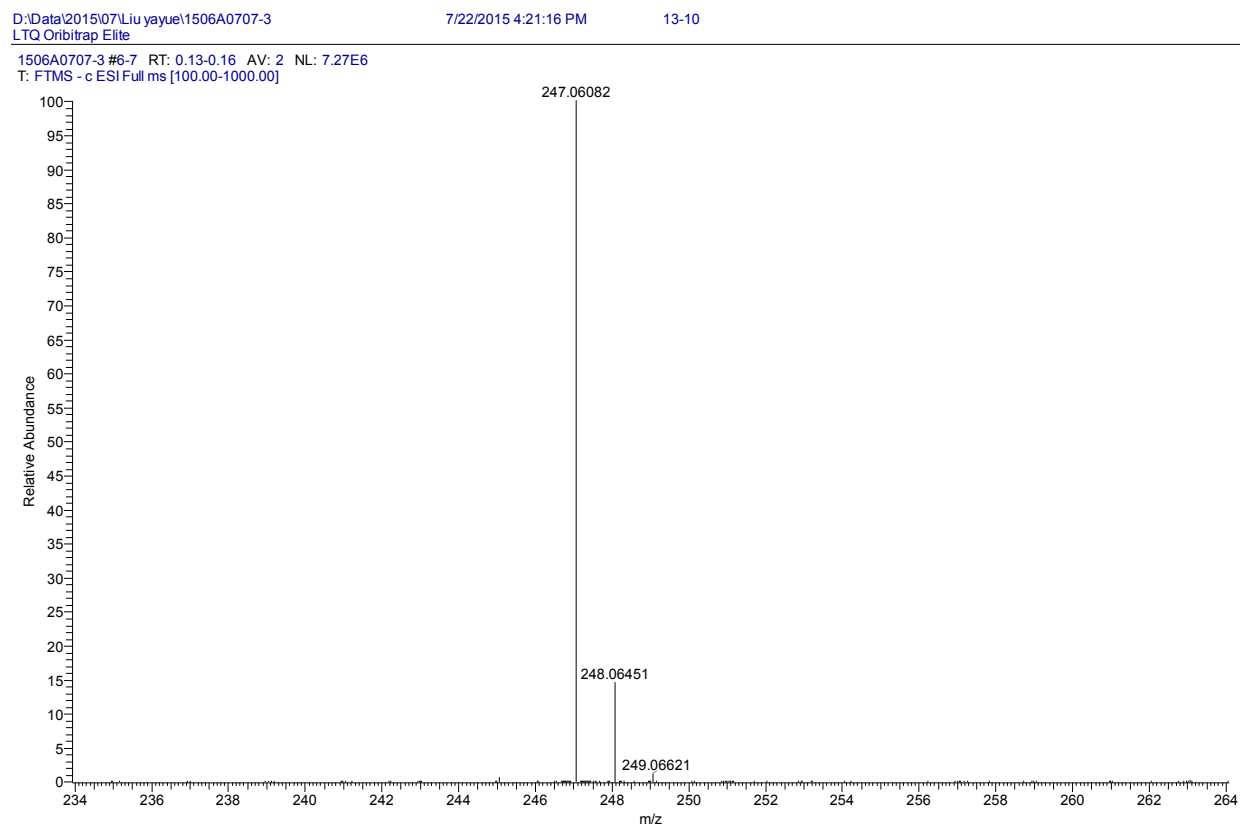


Figure S2. ^1H NMR (500 MHz, CDCl_3) spectrum of compound **1**

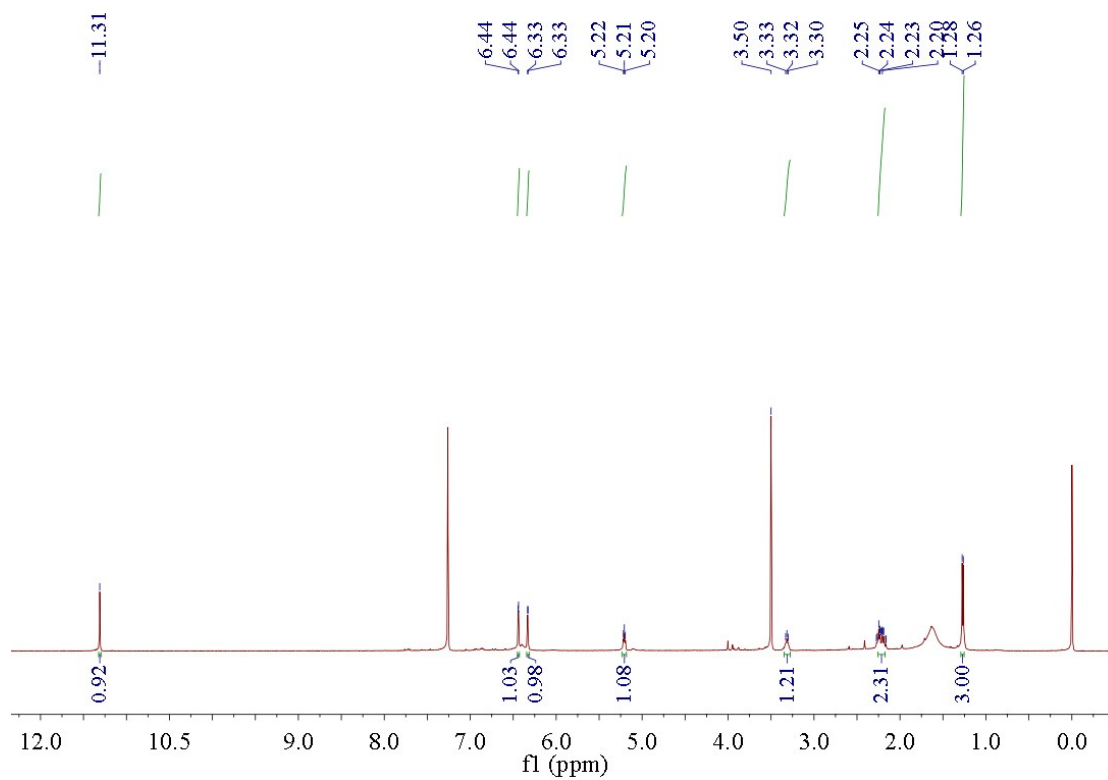


Figure S3. ^{13}C NMR (500 MHz, CDCl_3) spectrum of **1**

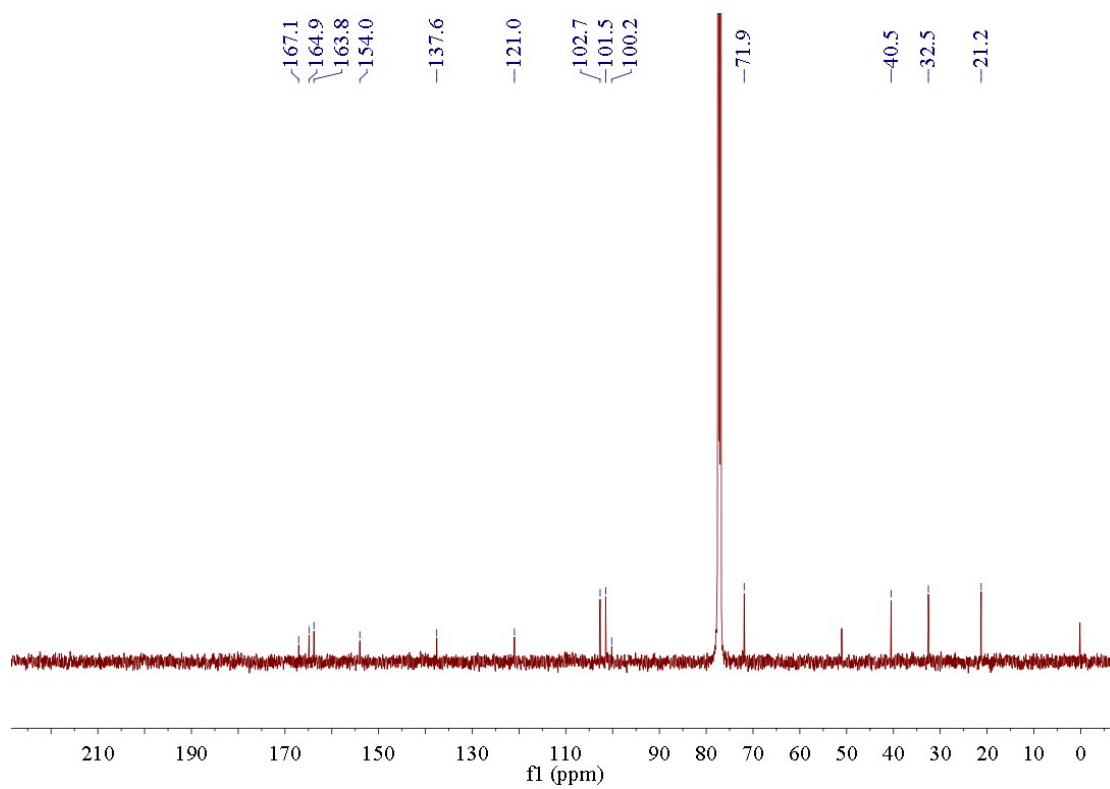


Figure S4. ^1H - ^1H COSY spectrum of compound **1**

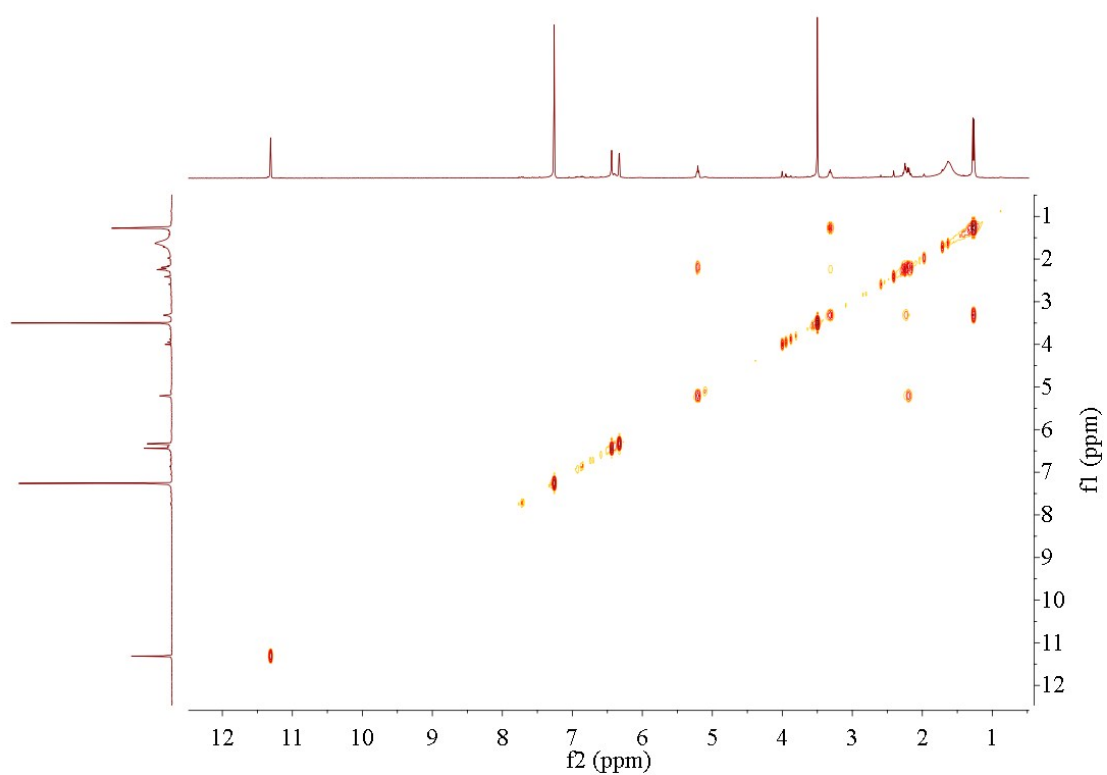


Figure S5. HSQC spectrum of compound **1**

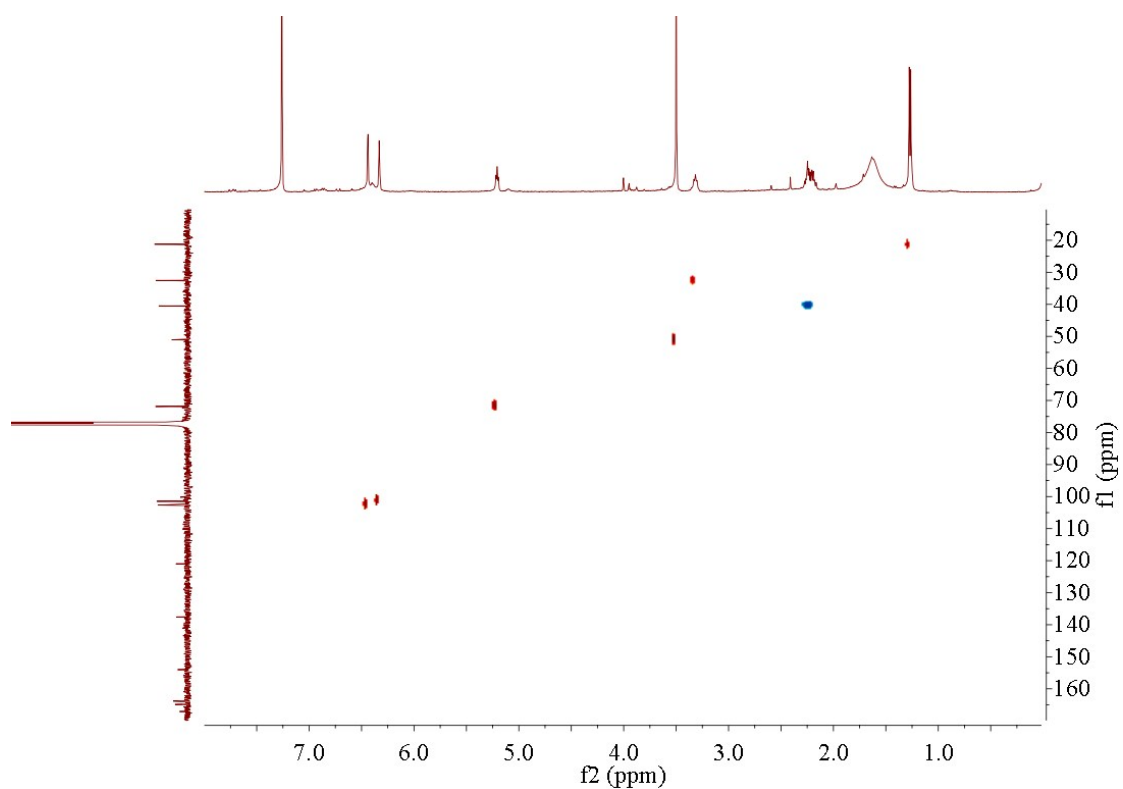


Figure S6. HMBC spectrum of compound **1**

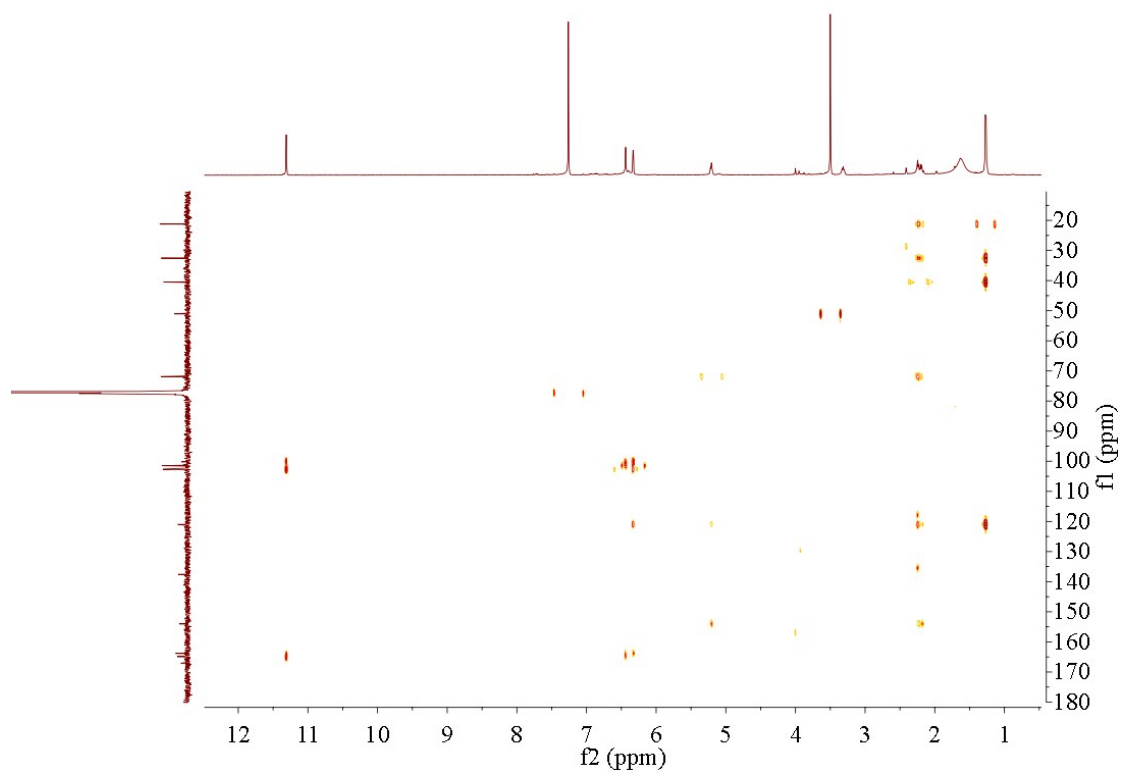


Figure S7. HR-ESI-MS spectrum of compound **2**

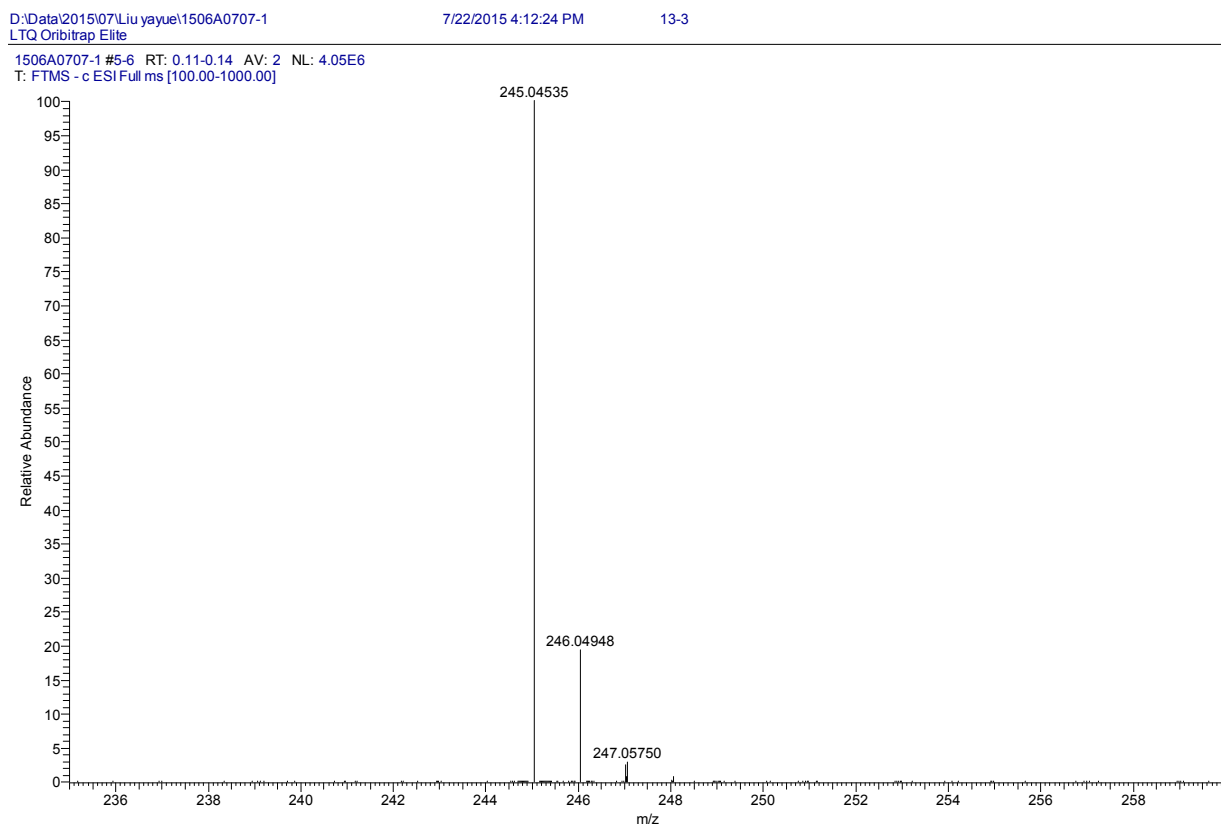


Figure S8. ^1H NMR (500 MHz, Methanol- d_4) spectrum of compound **2**

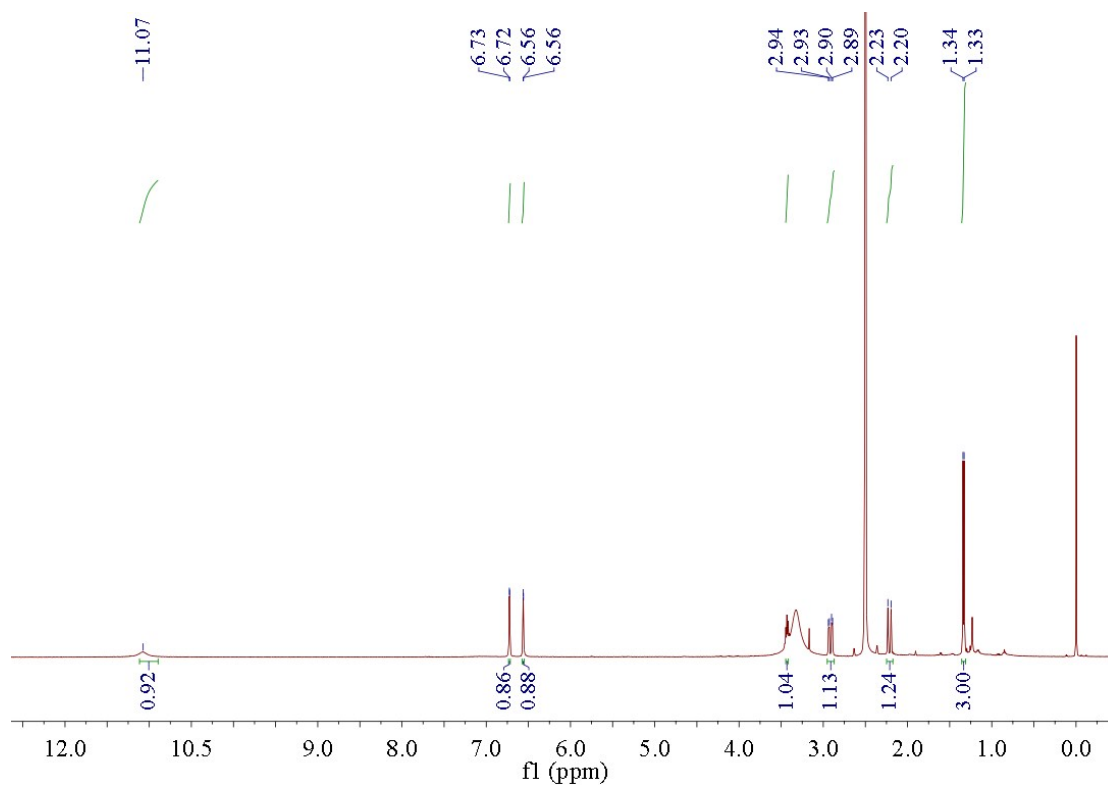


Figure S9. ^{13}C NMR (500 MHz, Methanol- d_4) and DEPT spectra of compound **2**

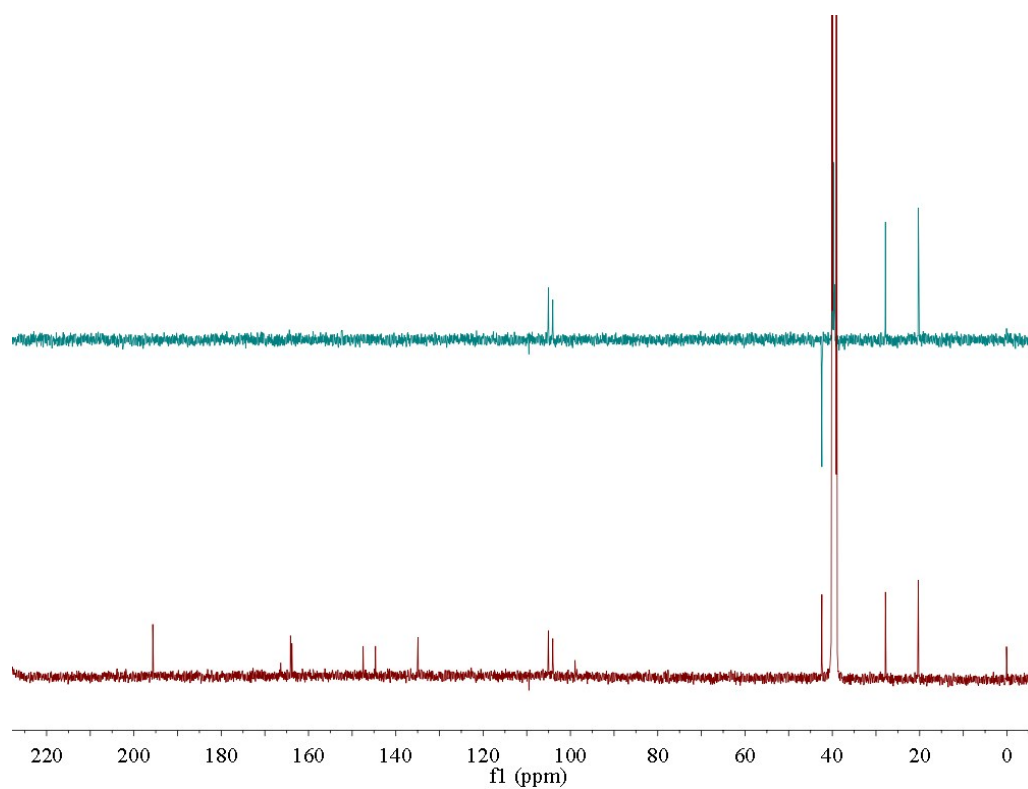


Figure S10. ^1H - ^1H COSY spectrum of compound **2**

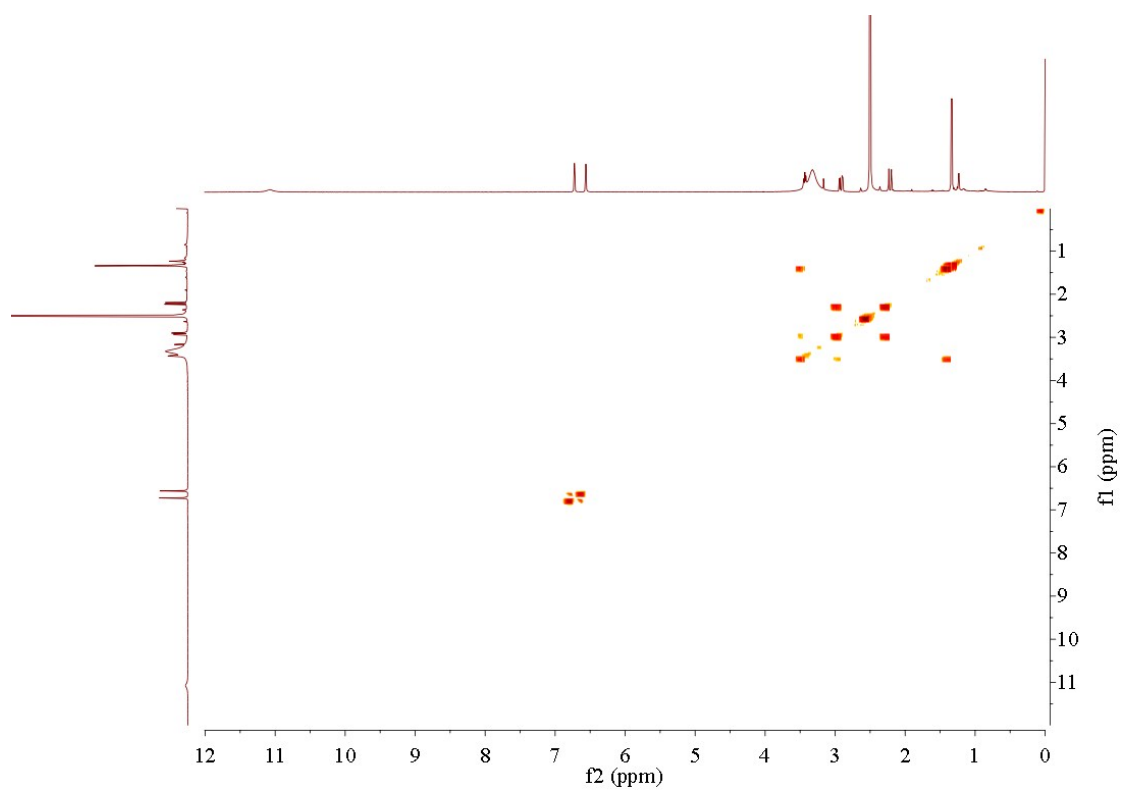


Figure S11. HSQC spectrum of compound **2**

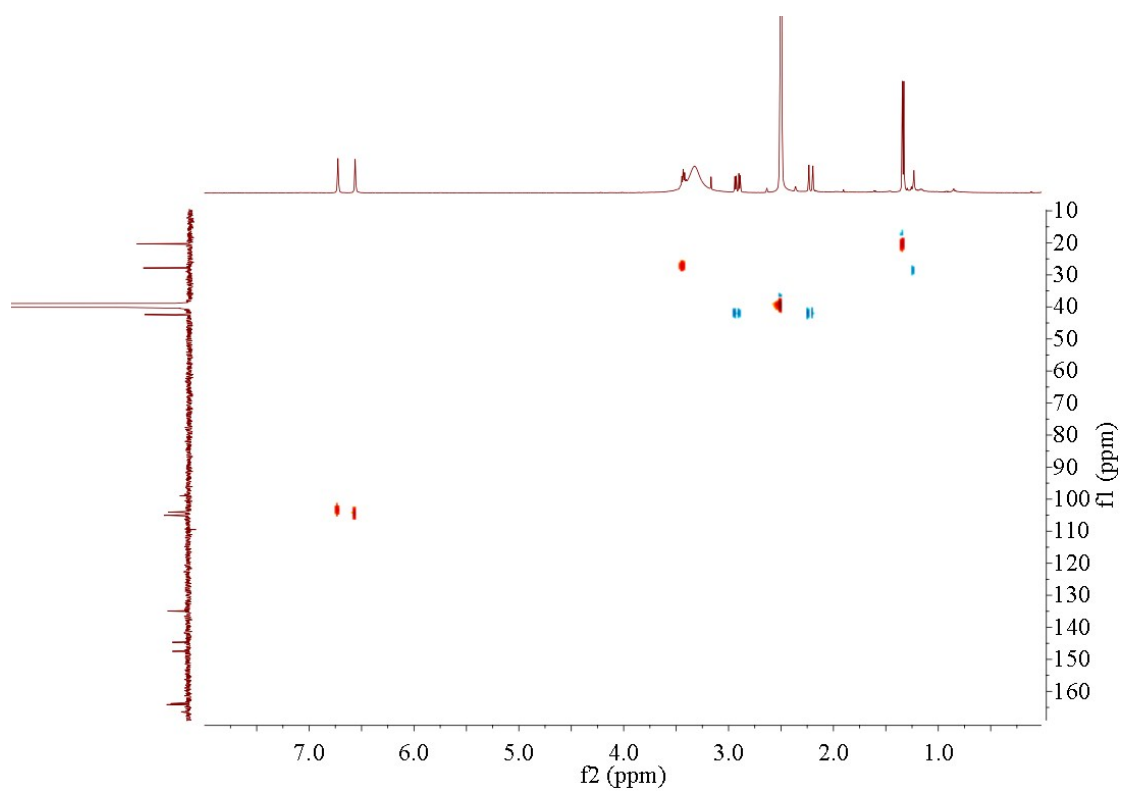


Figure S12. HMBC spectrum of compound **2**

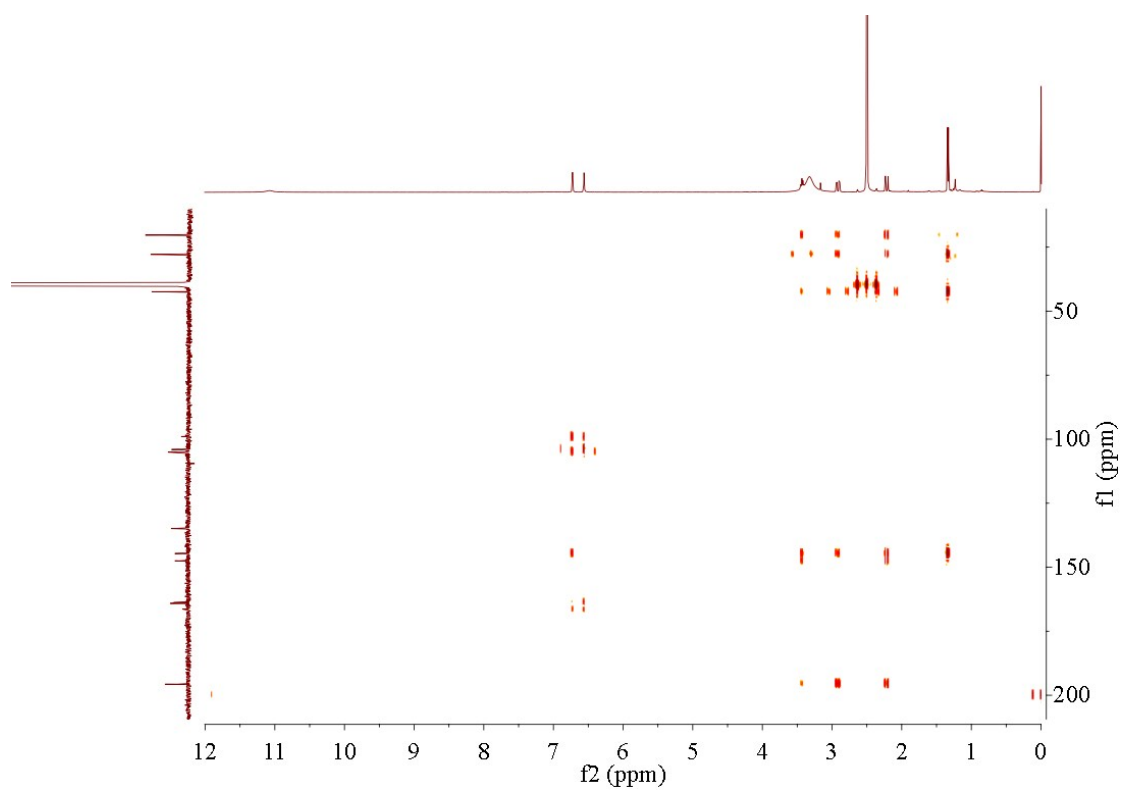


Figure S13. HR-ESI-MS spectrum of compound **3**

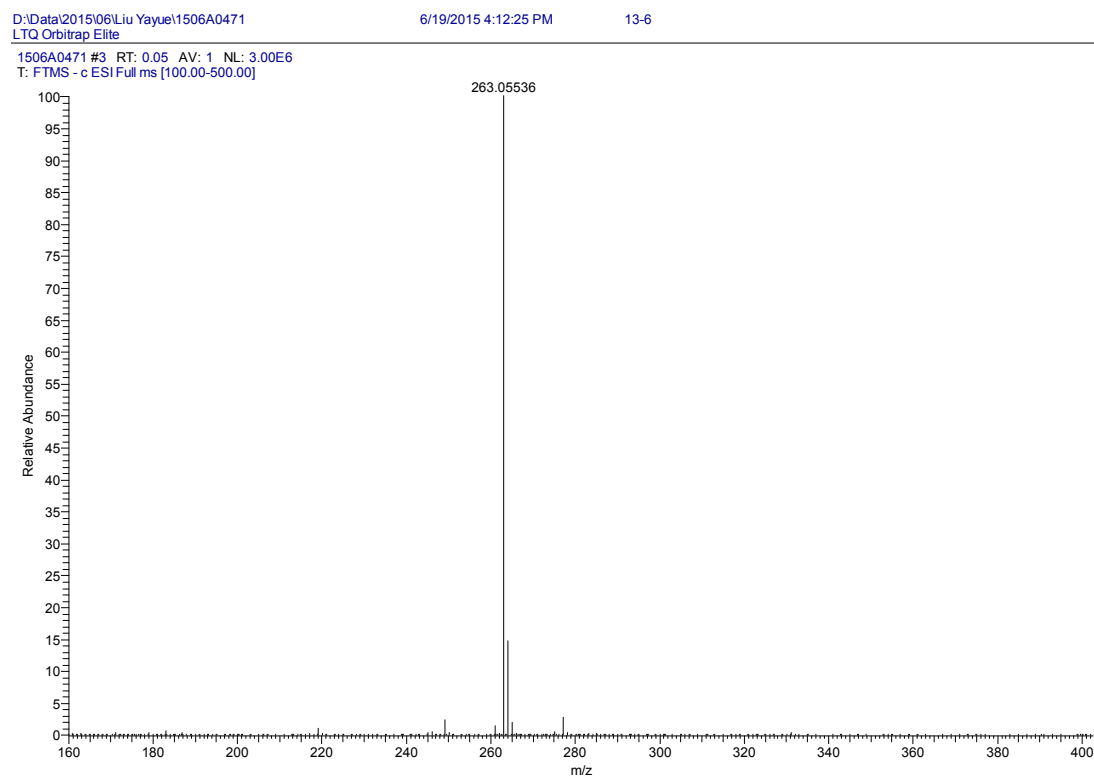


Figure S14. ^1H NMR (500 MHz, Methanol- d_4) spectrum of compound **3**

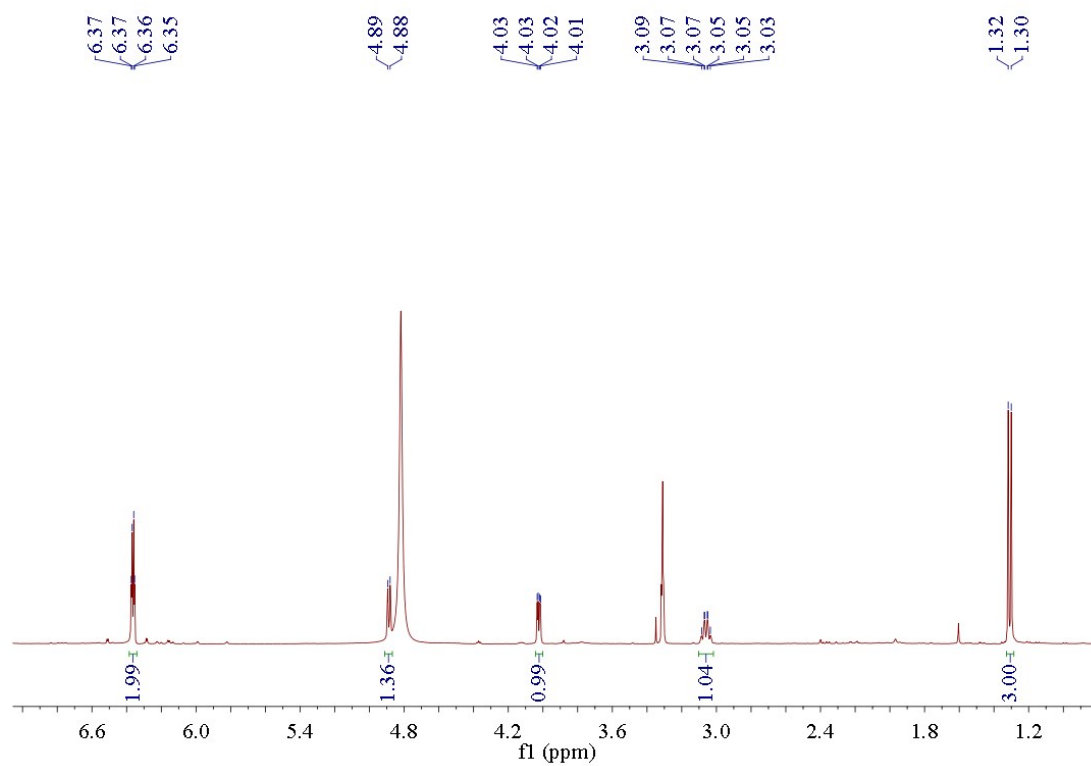


Figure S15. ^{13}C NMR (500 MHz, Methanol- d_4) and DEPT spectra of compound **3**

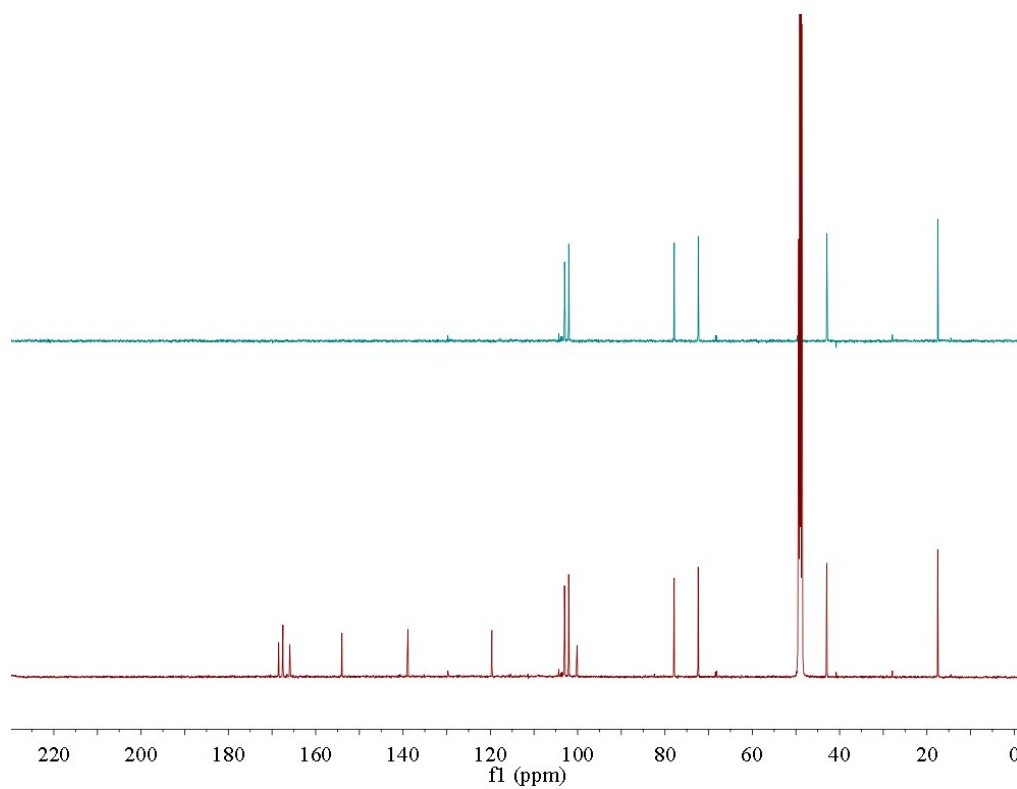


Figure S16. ^1H - ^1H COSY spectrum of compound **3**

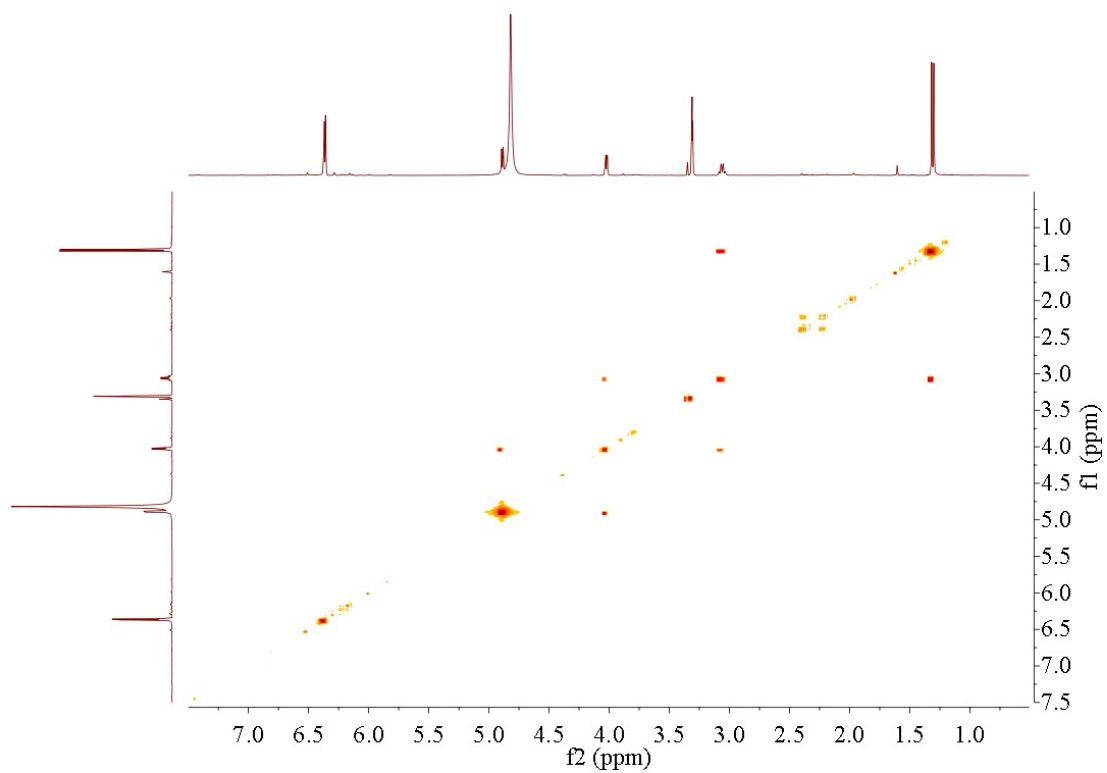


Figure S17. HSQC spectrum of compound **3**

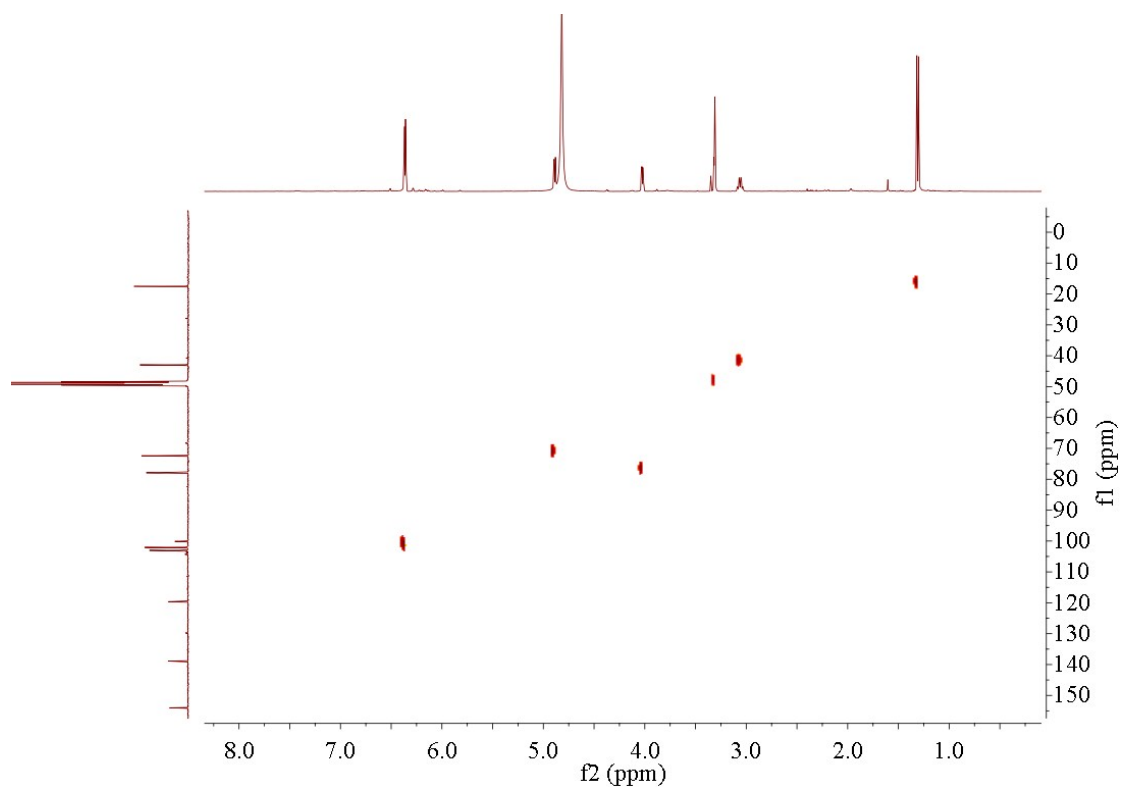


Figure S18. HMBC spectrum of compound **3**

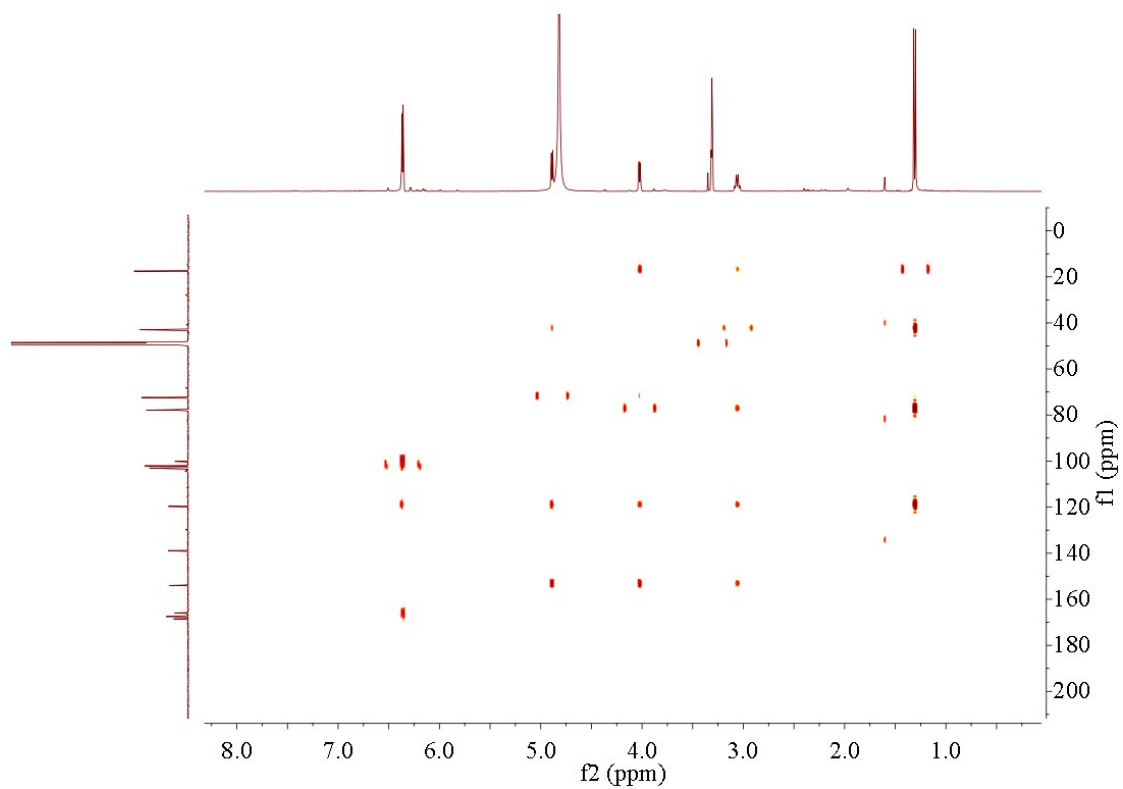


Figure S19. NOESY spectrum of compound **3**

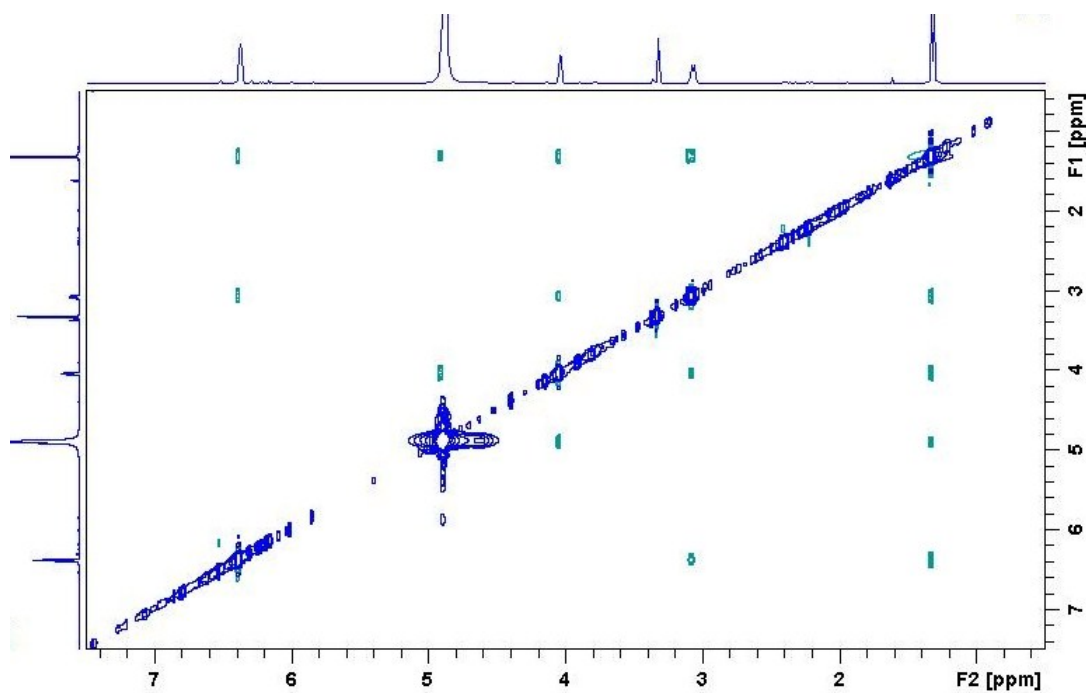


Figure S20. HR-ESI-MS spectrum of compound **4**

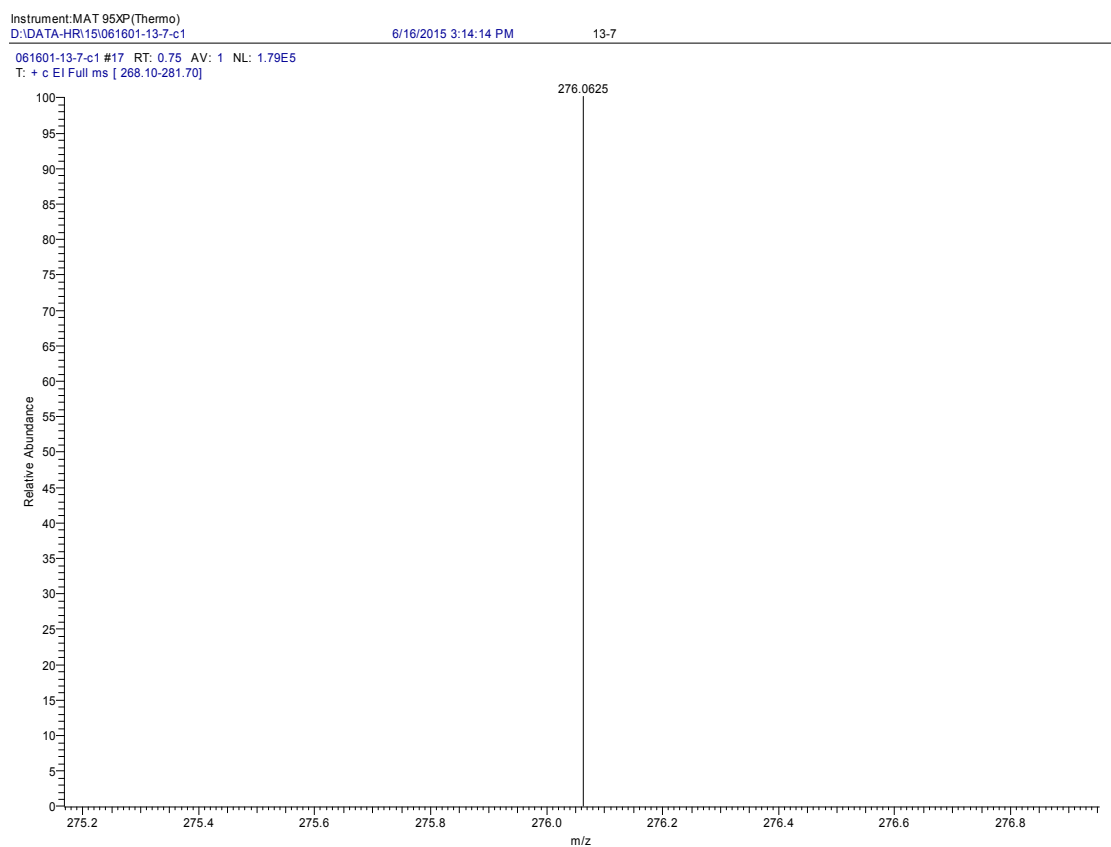


Figure S21. ^1H NMR (500 MHz, Methanol- d_4) spectrum of compound **4**

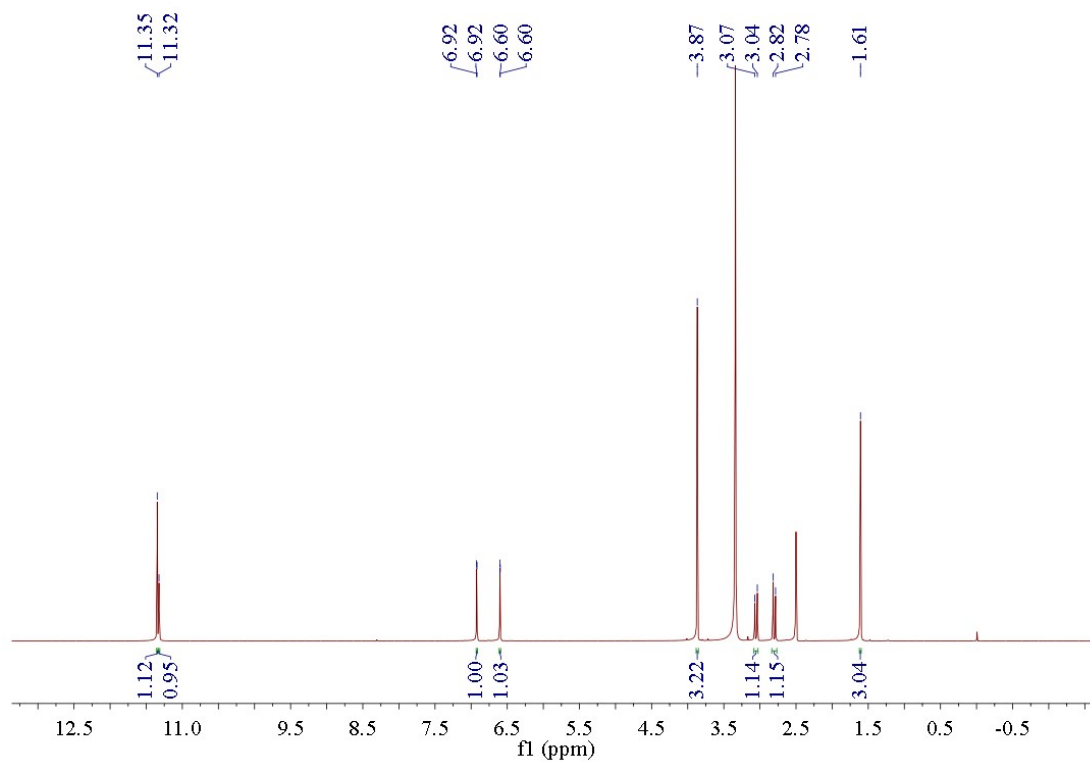


Figure S22. ^{13}C NMR (500 MHz, Methanol- d_4) and DEPT spectra of compound **4**

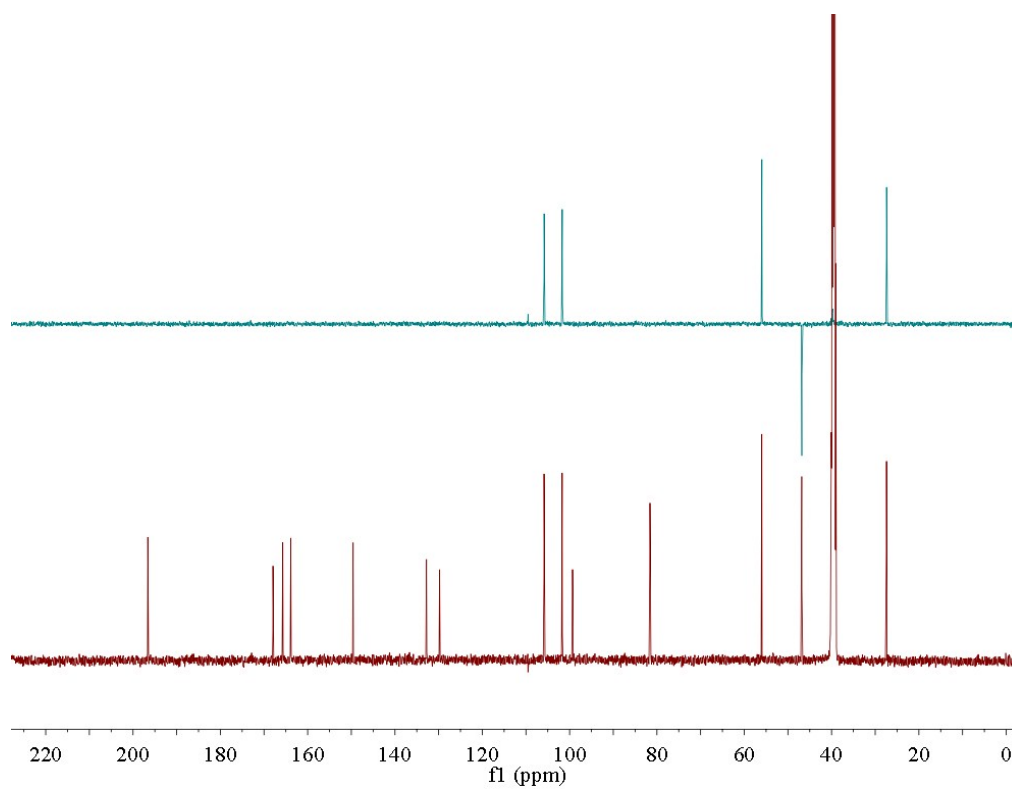


Figure S23. ^1H - ^1H COSY spectrum of compound **4**

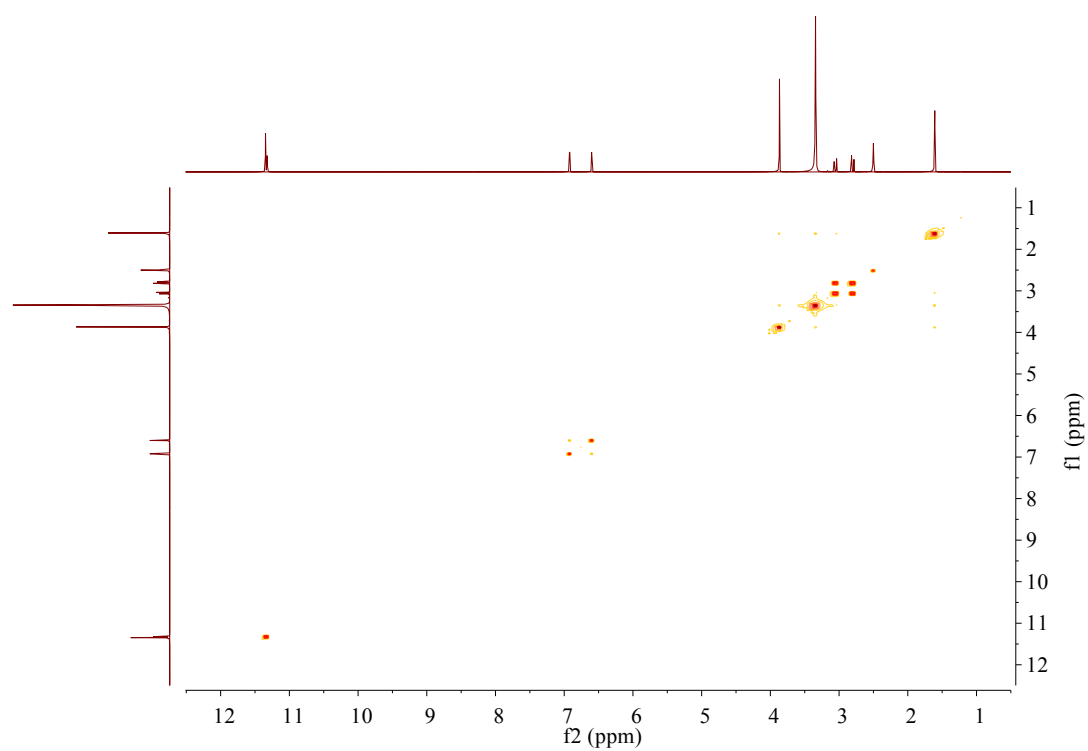


Figure S24. HSQC spectrum of compound **4**

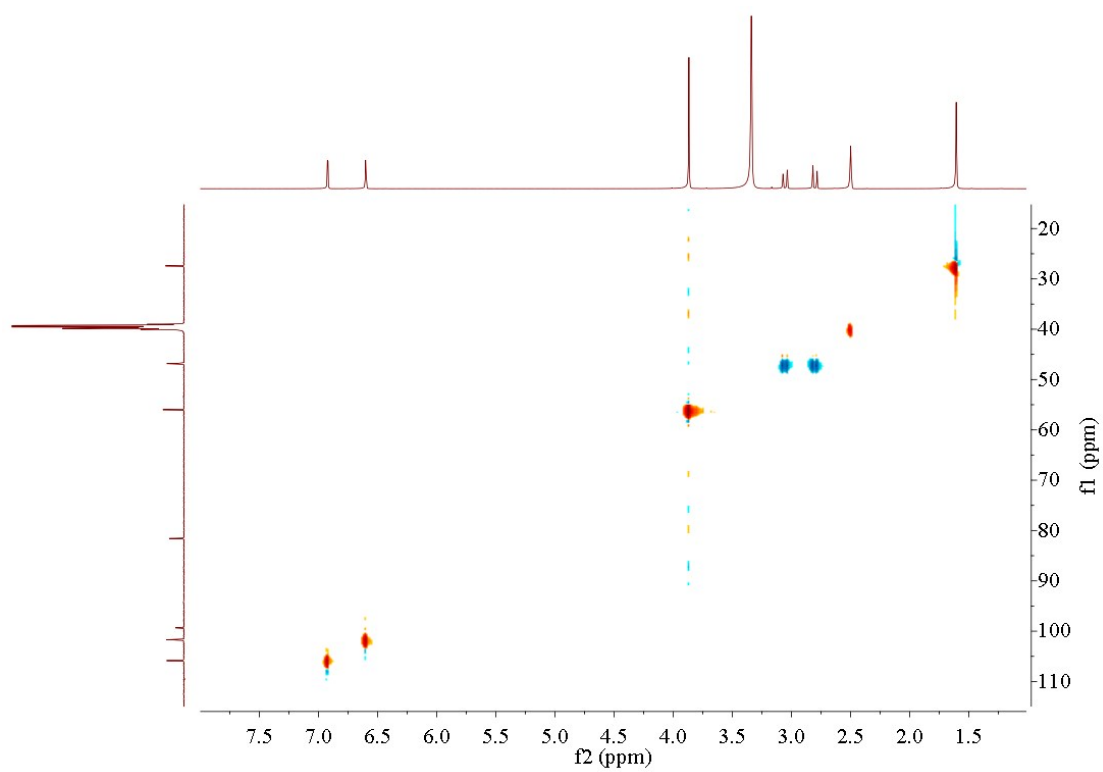


Figure S25. HMBC spectrum of compound **4**

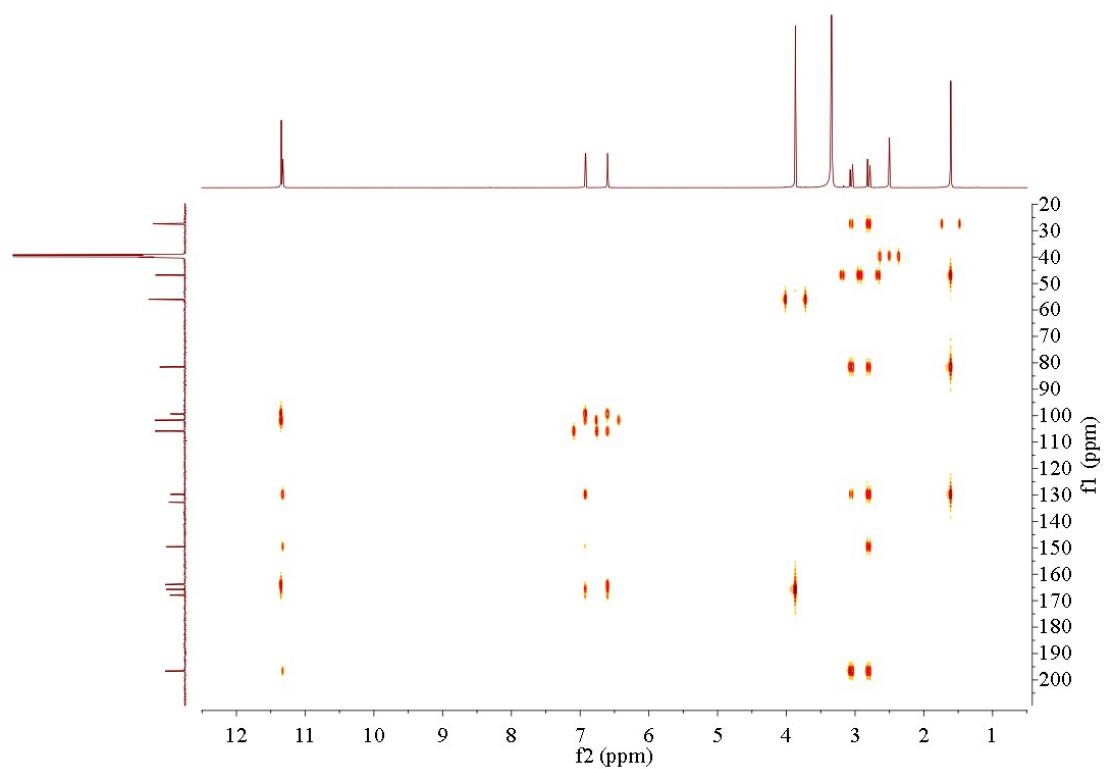


Figure S26. HR-ESI-MS spectrum of compound **5**

D:\Data\2015\07\Liu yayue\1506A0707-2
LTQ Orbitrap Elite

7/22/2015 4:19:30 PM

13-5

1506A0707-2 #6 RT: 0.14 AV: 1 NL: 1.61E6
T: FTMS - c ESI Full ms [100.00-1000.00]

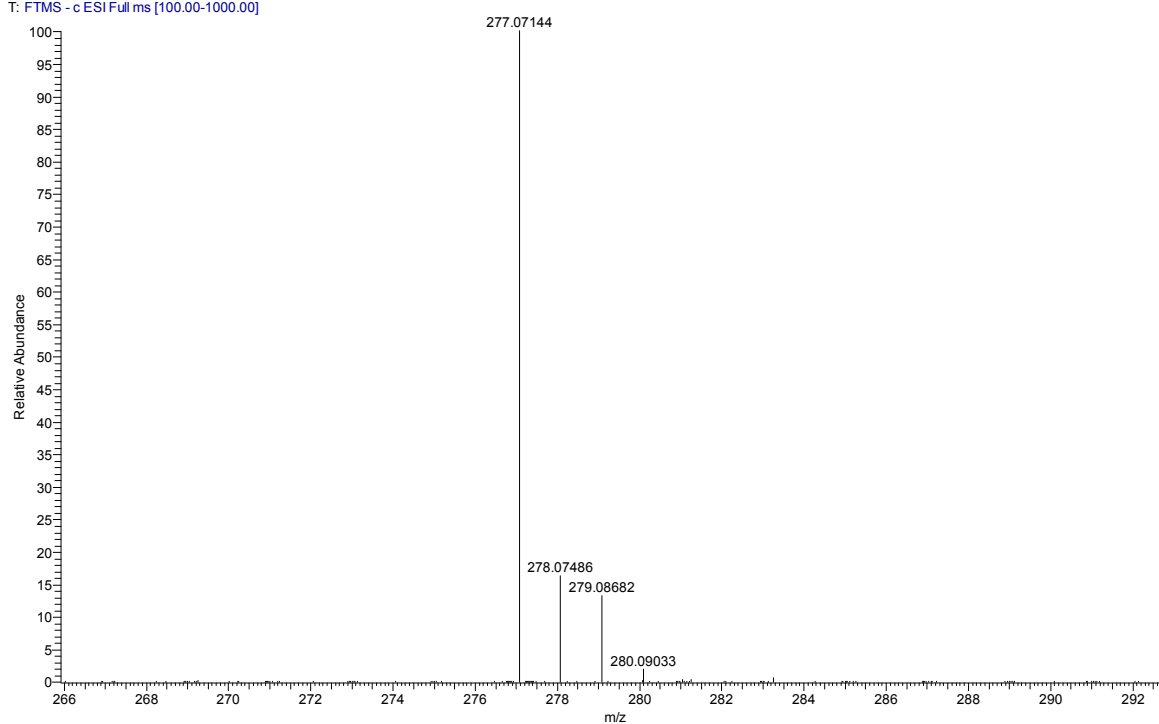


Figure S27. ^1H NMR (500 MHz, Methanol- d_4) spectrum of compound **5**

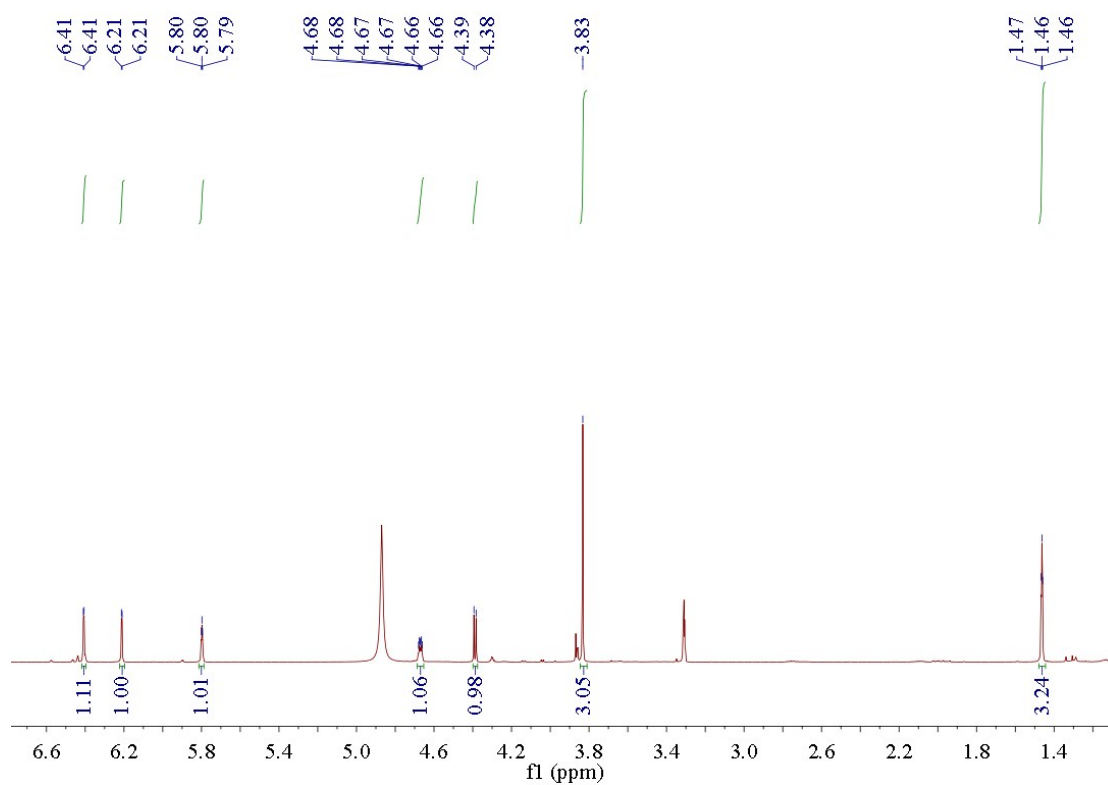


Figure S28. ^{13}C NMR (500 MHz, Methanol- d_4) and DEPT spectra of **5**

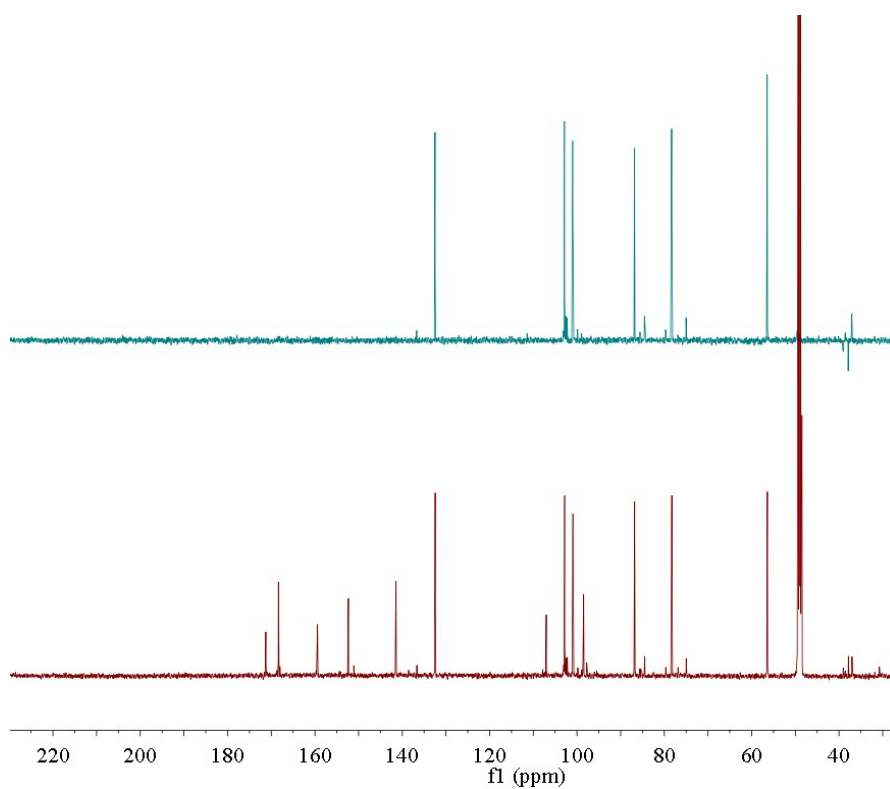


Figure S29. ^1H - ^1H COSY spectrum of compound **5**

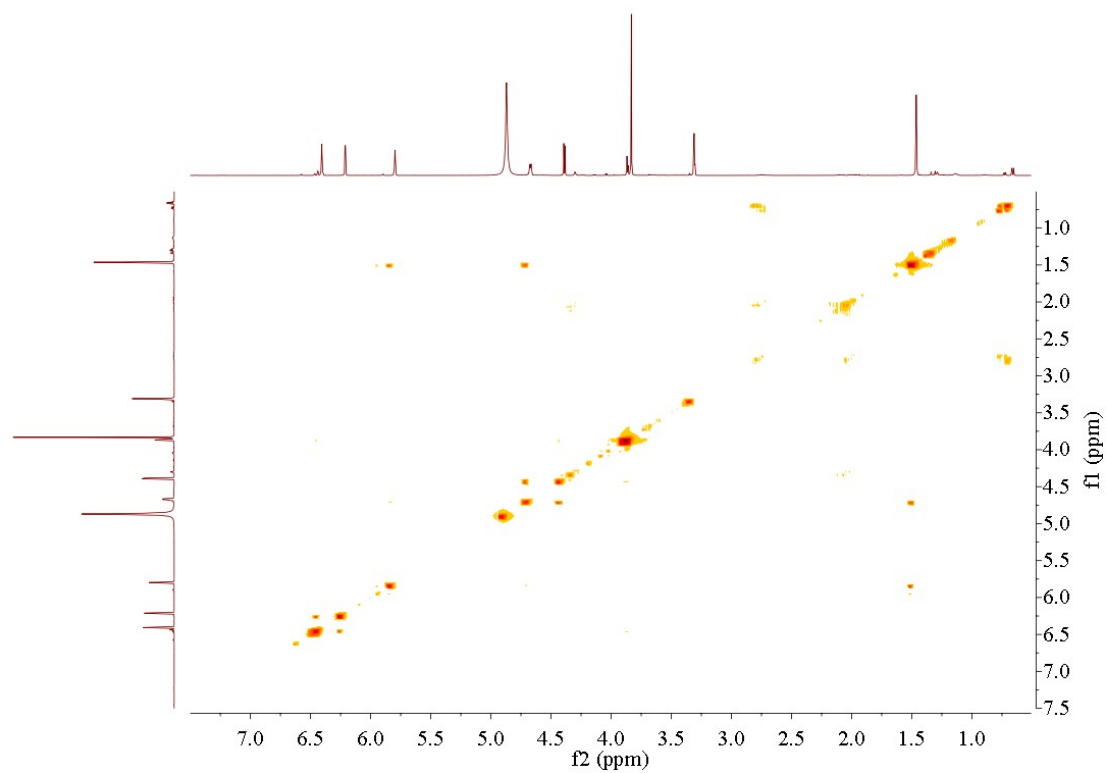


Figure S30. HSQC spectrum of compound **5**

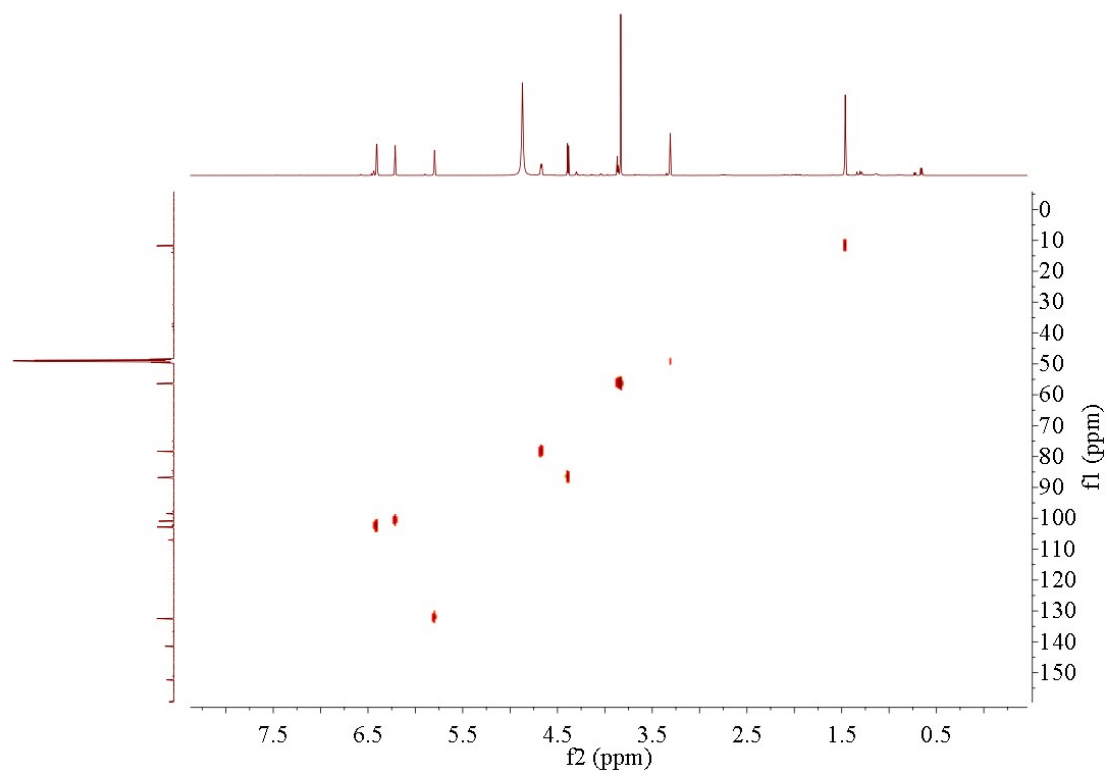


Figure S31. HMBC spectrum of compound **5**

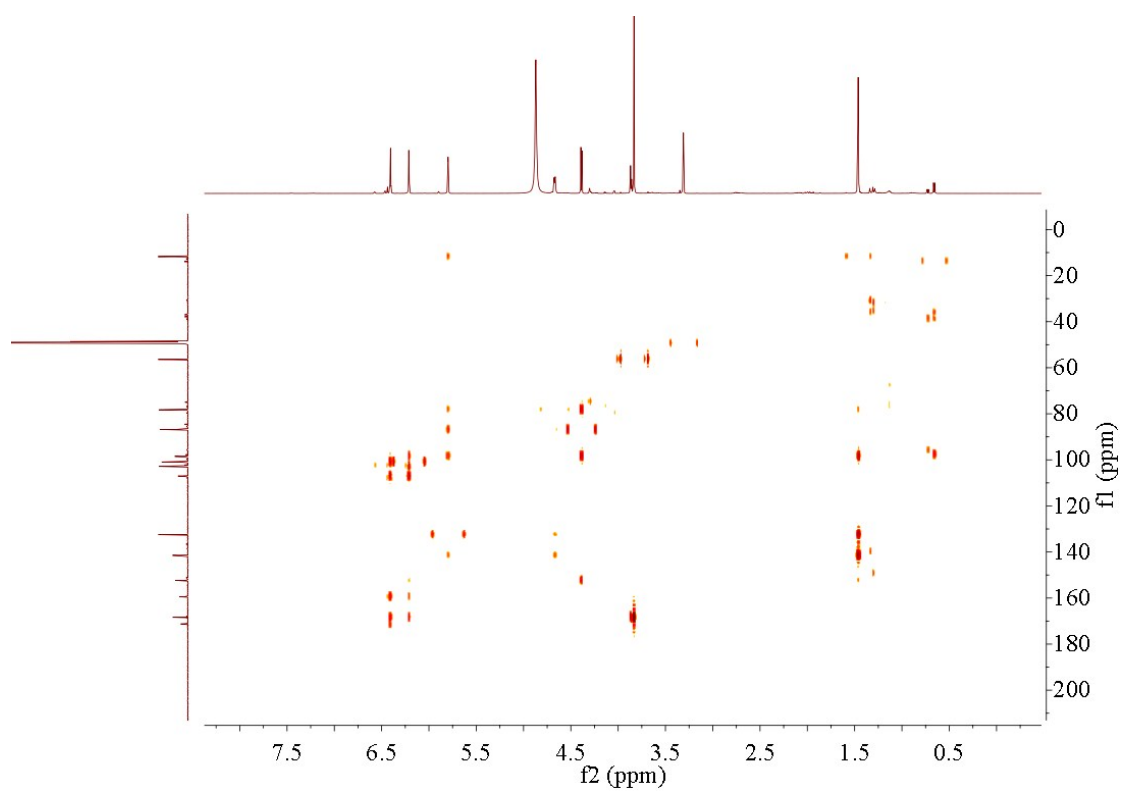


Figure S32. NOESY spectrum of compound **5**

