

Supplementary Information

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Table S1. ^1H and ^{13}C -NMR Data of 3–5 (δ in ppm, J in Hz).

Position	Spoxazomicin A (3)		Spoxazomicin B (4)		Spoxazomicin C (5)
	δ_{C}	δ_{H}	δ_{C}	δ_{H}	δ_{H}
1	110.3	—	110.4	—	
2	159.7	—	159.6	—	
3	116.1	6.95 (d; 8.4)	116.1	6.95 (d; 8.4)	6.93 (d; 8.0)
4	133.2	7.39 (dd; 8.4,7.8)	133.2	7.40 (dd; 8.4,7.8)	7.41 (dd; 8.0,8.0)
5	118.4	6.89 (dd; 7.8,7.8)	118.4	6.89 (dd; 7.8,7.8)	6.88 (dd; 7.6,7.6)
6	127.7	7.66 (d; 7.8)	127.8	7.66 (d; 7.8)	7.63 (d; 7.6)
7	166.3	—	166.3	—	
8	69.4	4.42 (dd; 7.2,8.4)	69.2	4.3 (dd; 8.4,8.4)	4.4 (m)
		4.54 (dd; 8.4,9.6)		4.51 (dd; 9.0,9.0)	4.51 (m)
9	71.3	4.65 (m)	68.3	4.73 (m)	4.44 (m)
10	76.5	4.20 (d; 5.4)	77	4.49 (d; 7.2)	3.72 (m)
11	33.3	2.87 (dd; 8.4,10.8)	31.9	2.74 (dd; 5.4,10.2)	
		2.99 (dd; 5.4,10.8)		3.04 (dd; 5.4,10.2)	
12	71.4	3.13 (m)	67.7	3.58 (m)	
13	41.2	3.21 (dd; 6.6,13.8)	38	3.36 (dd; 7.8,13.8)	
		3.48 (dd; 4.2,13.8)		3.48 (dd; 7.8,13.8)	
14	172.1	—	172	—	
15	21.2	1.99 (s)	21.1	1.95 (s)	
16	41.6	2.52 (s)	35.4	2.50 (s)	

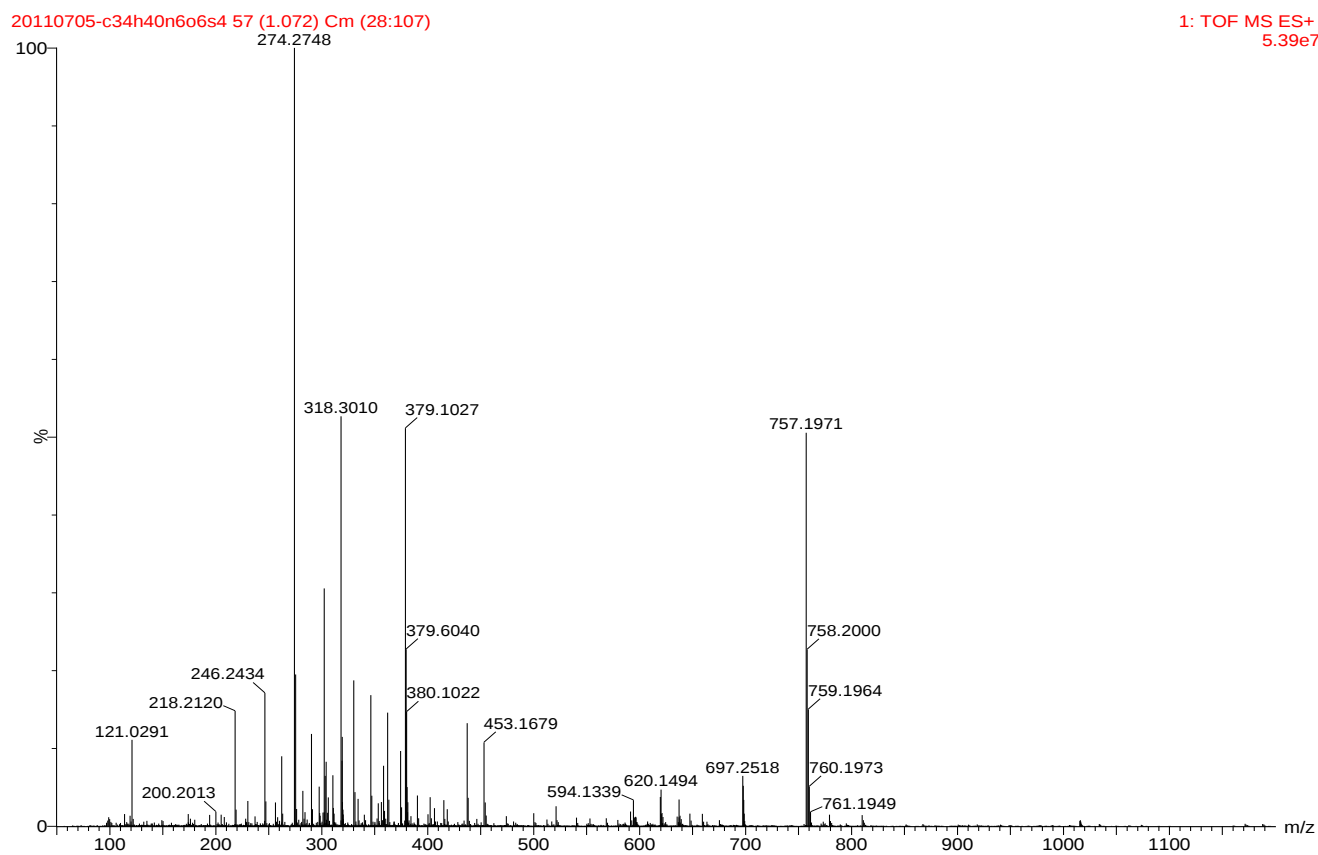
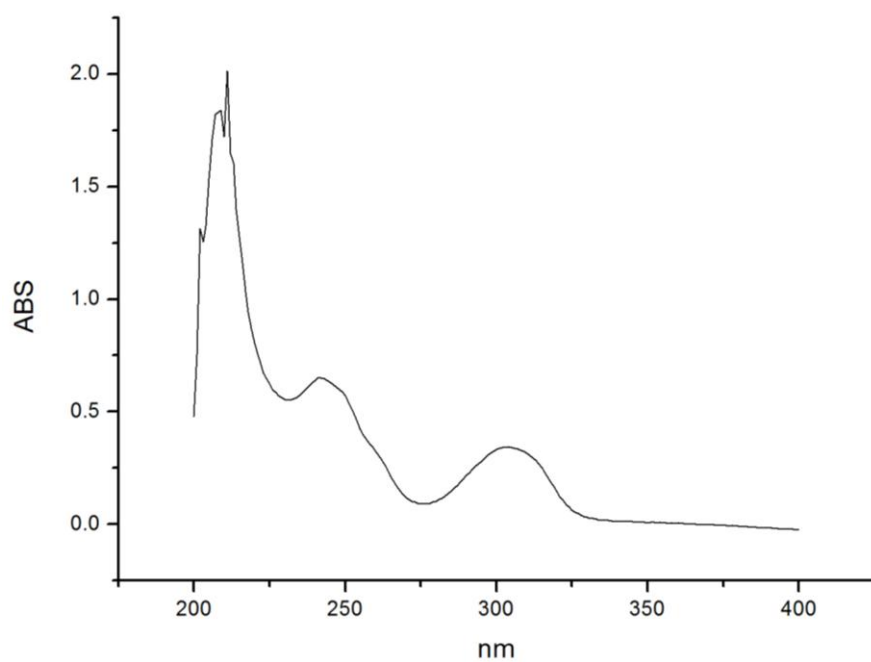
Figure S1. HR-ESI-MS spectrum of **1**.**Figure S2.** UV spectrum of **1**.

Figure S3. IR spectrum of 1.

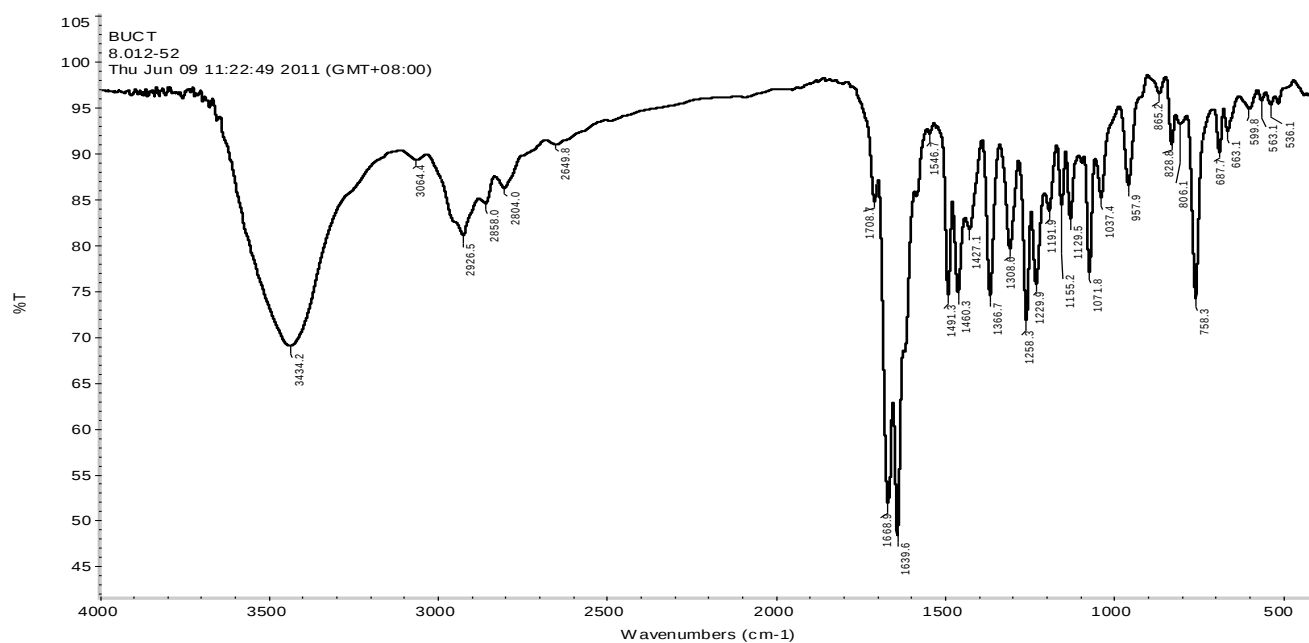
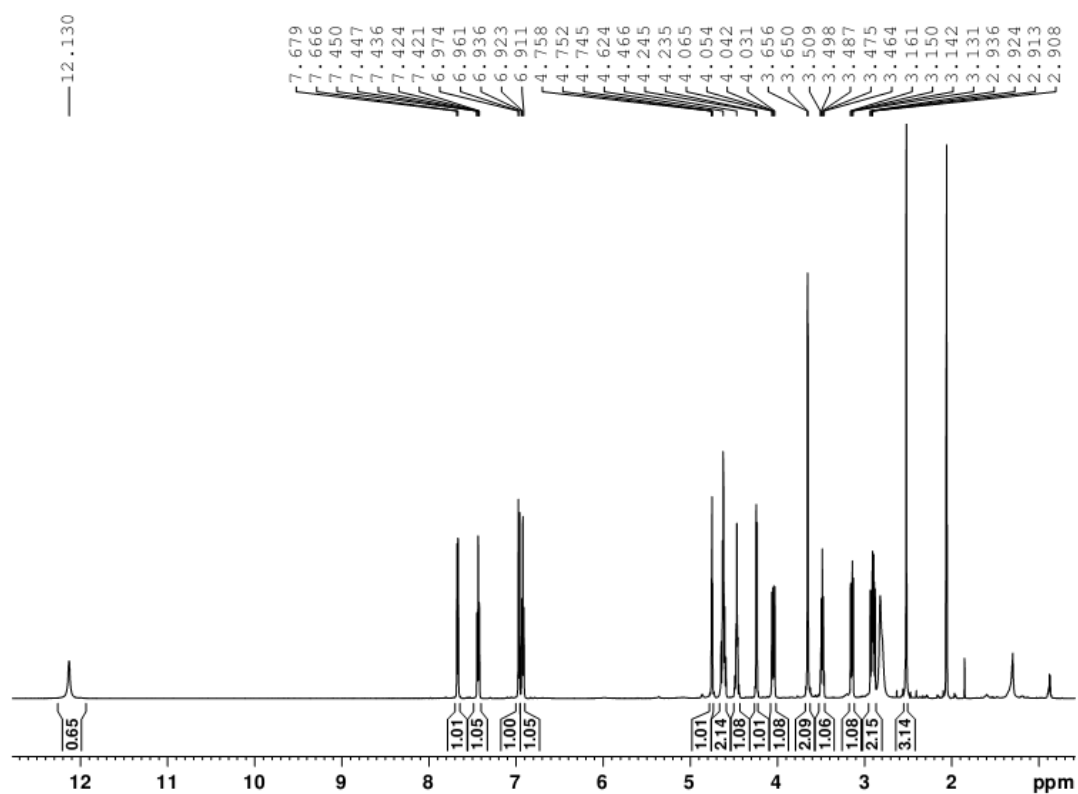
Figure S4. ¹H-NMR spectrum (600 MHz, Acetone-*d*₆) of 1.

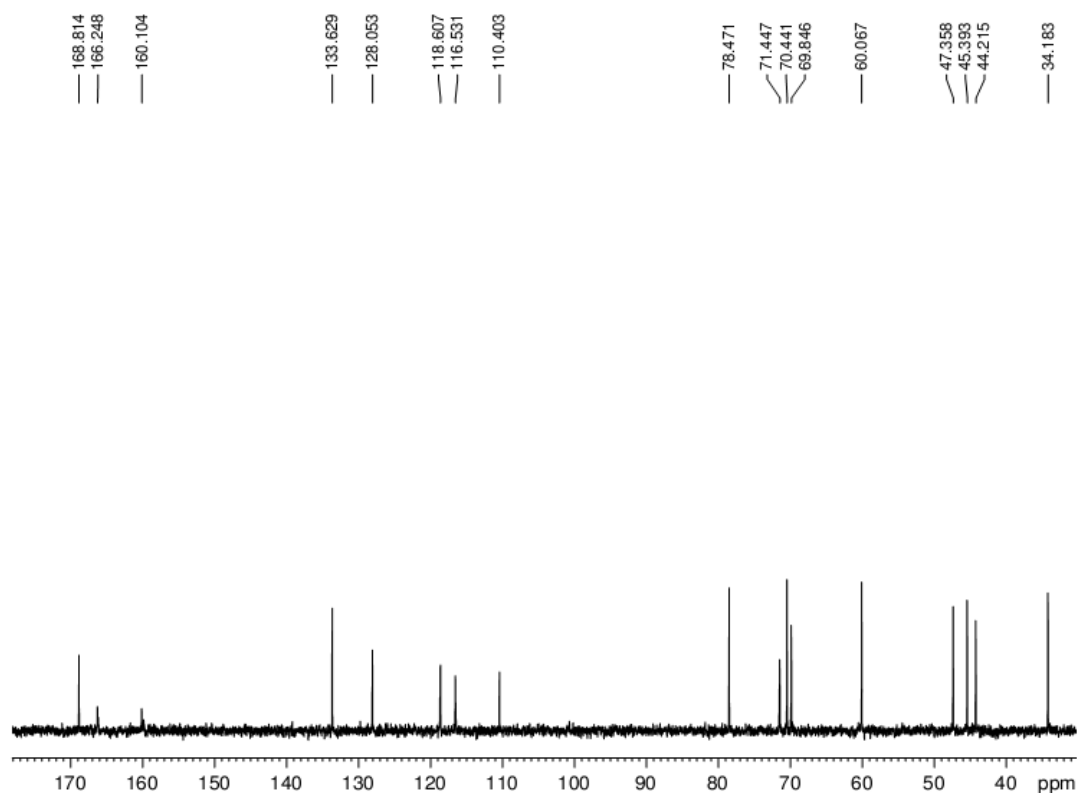
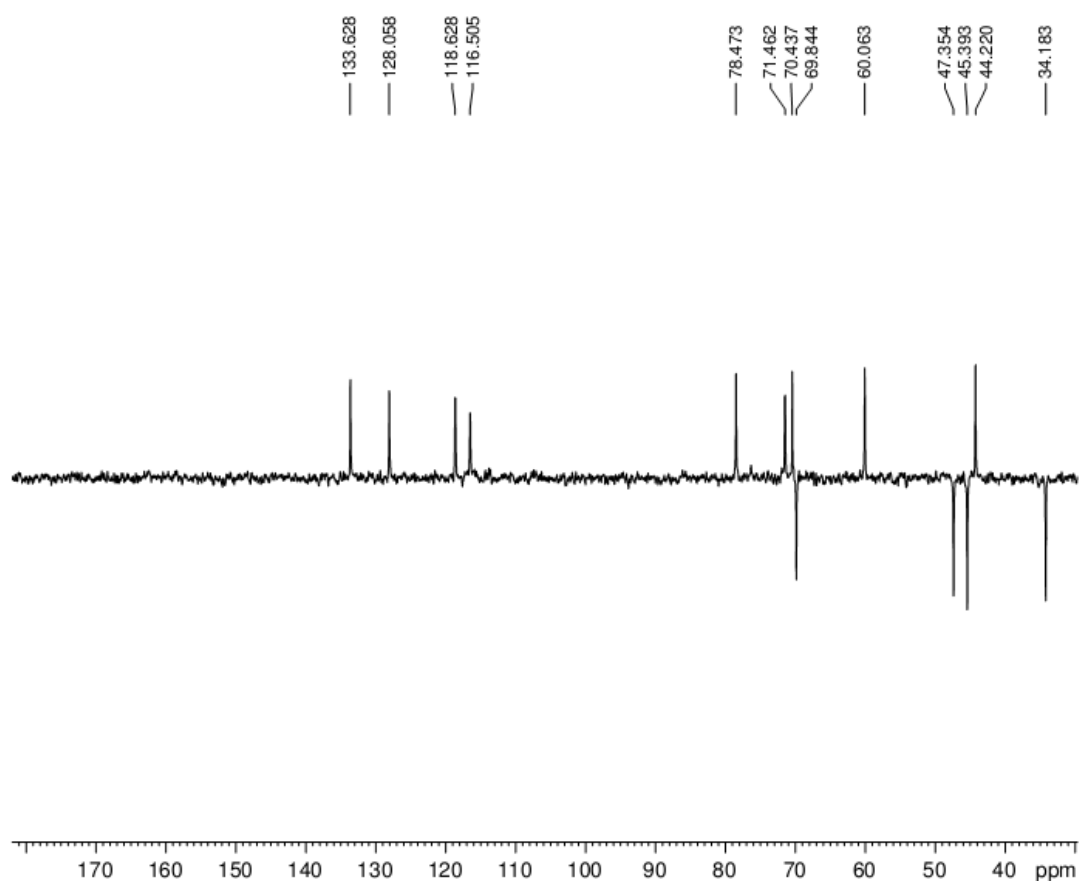
Figure S5. ^{13}C -NMR spectrum (150 MHz, Acetone- d_6) of **1**.**Figure S6.** DEPT135 spectrum (150 MHz, Acetone- d_6) of **1**.

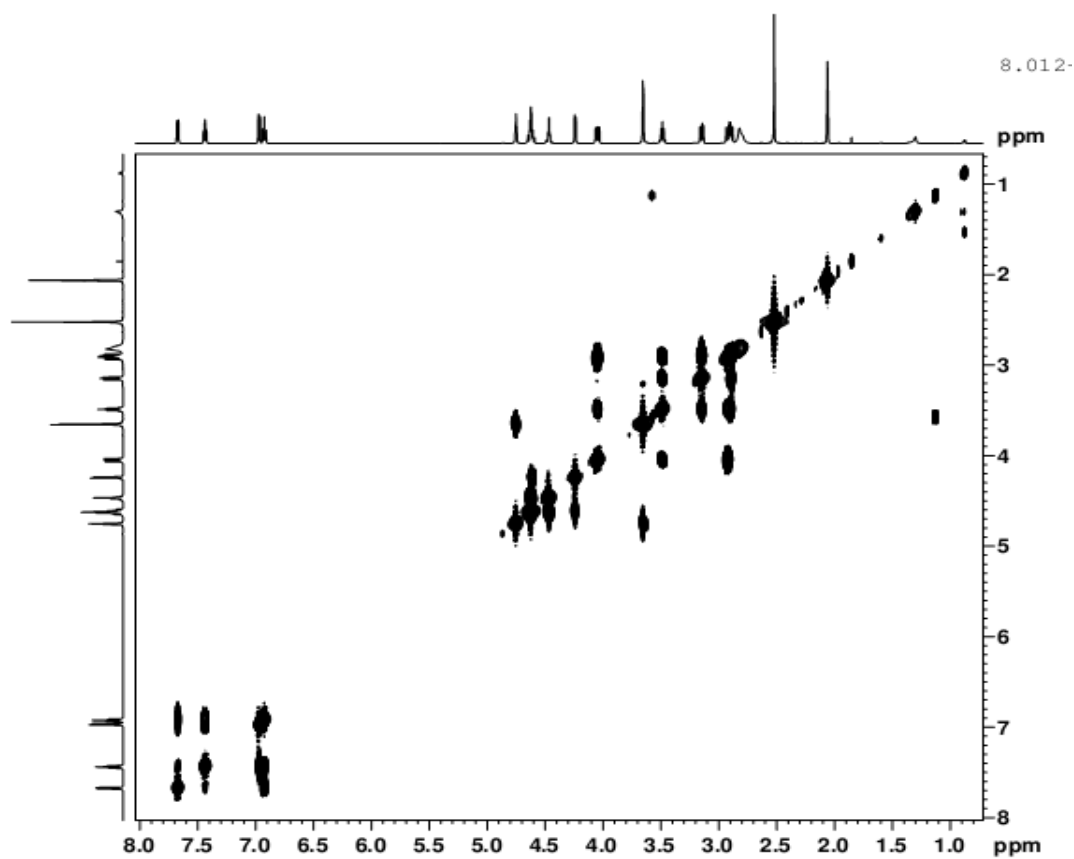
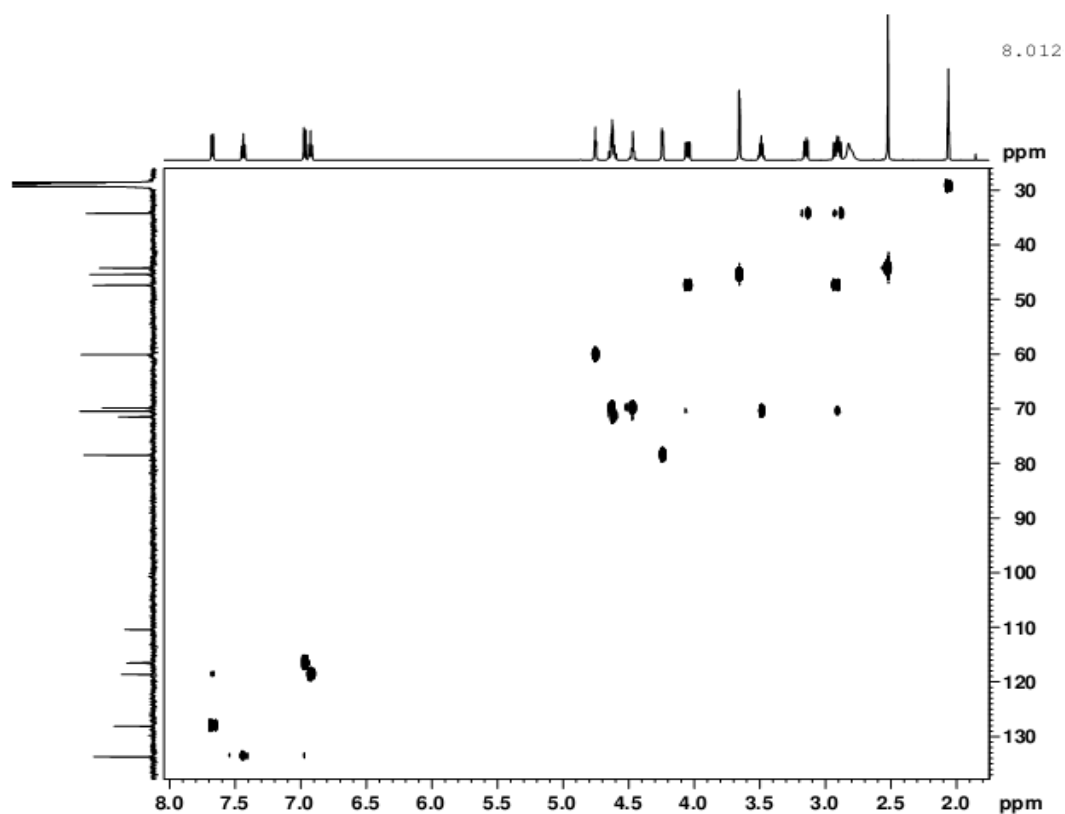
Figure S7. ^1H - ^1H -COSY spectrum (600×600 MHz, Acetone- d_6) of **1**.**Figure S8.** ^1H - ^{13}C -HSQC spectrum (600×150 MHz, Acetone- d_6) of **1**.

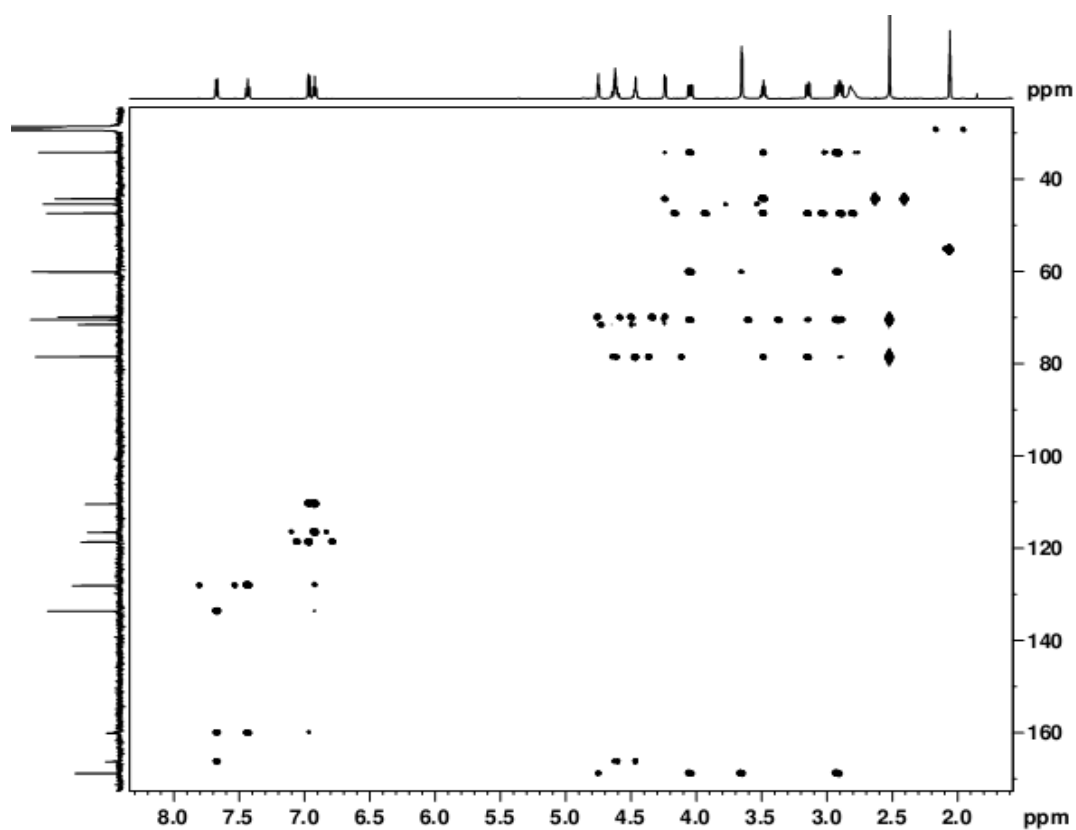
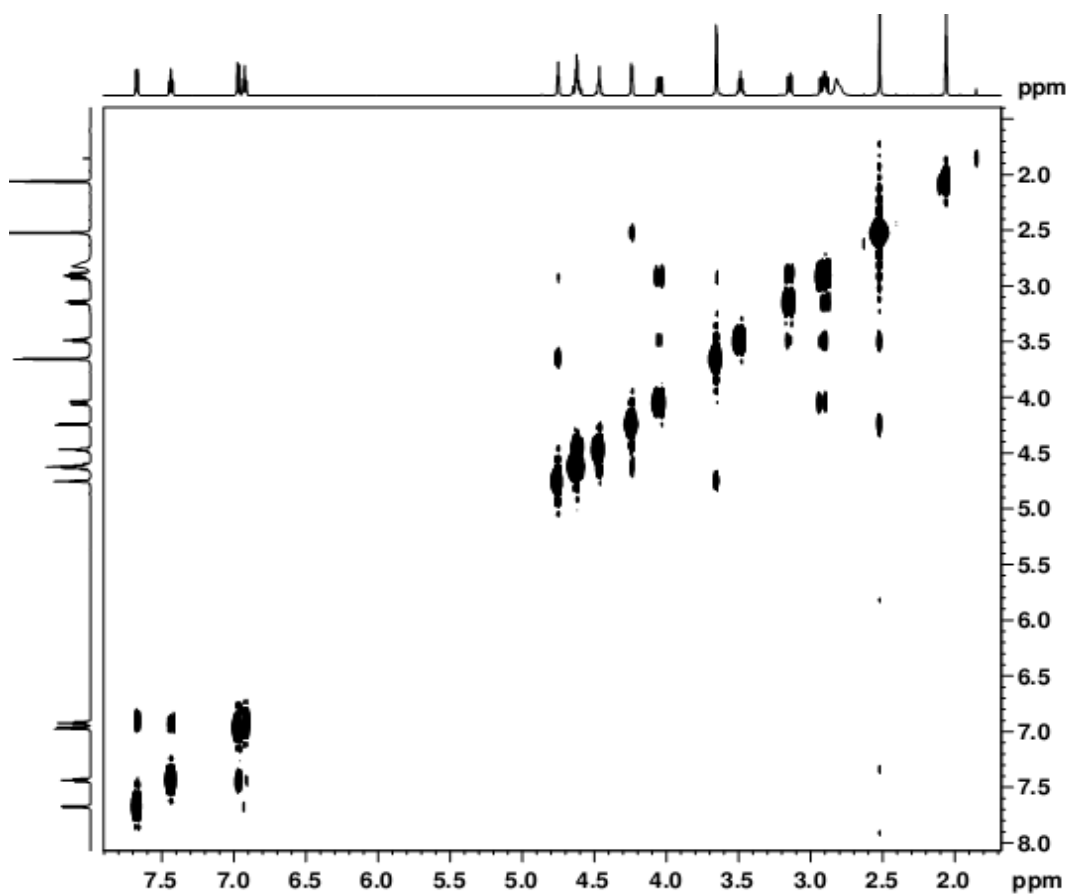
Figure S9. ^1H - ^{13}C -HMBC spectrum (600×150 MHz, Acetone- d_6) of **1**.**Figure S10.** ^1H - ^1H -ROESY spectrum (600×600 MHz, Acetone- d_6) of **1**.

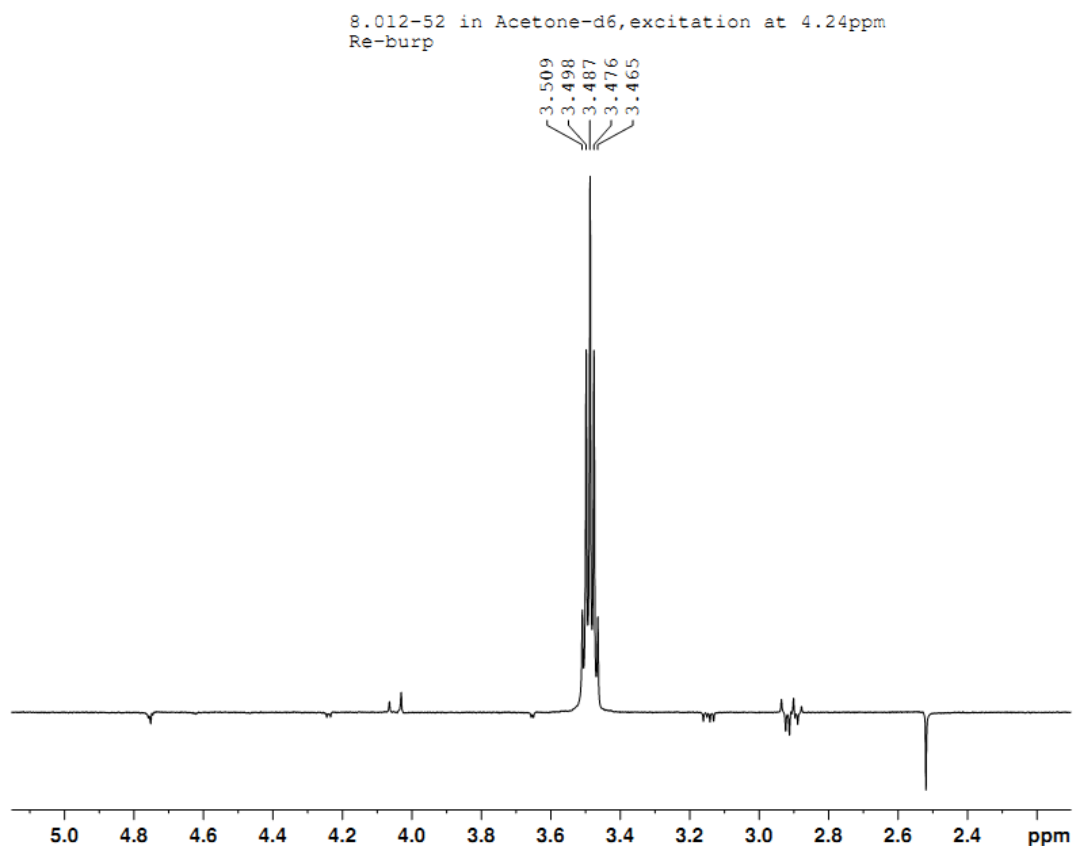
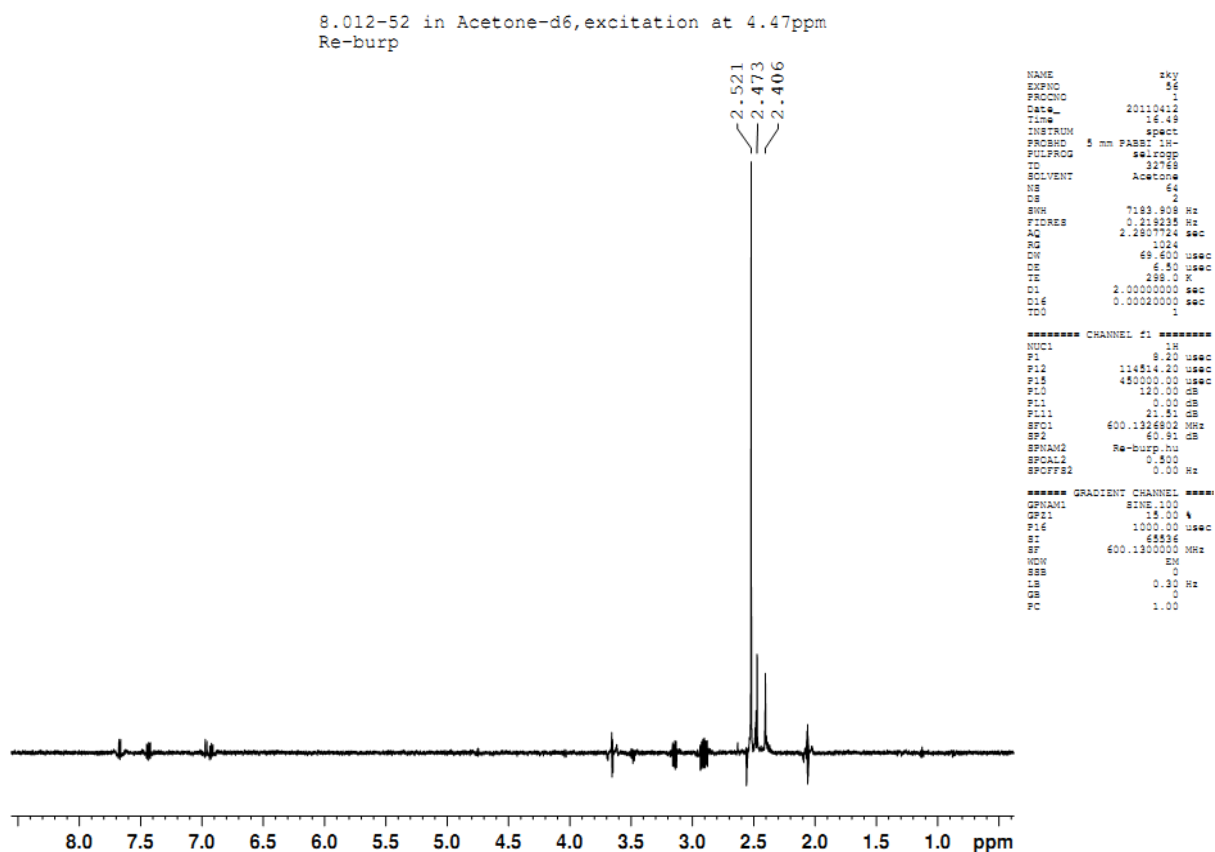
Figure S11. NOE difference spectrum (H-10 irradiated) (600 MHz, Acetone- d_6) of **1**.**Figure S12.** NOE difference spectrum (H-8a irradiated) (600 MHz, Acetone- d_6) of **1**.

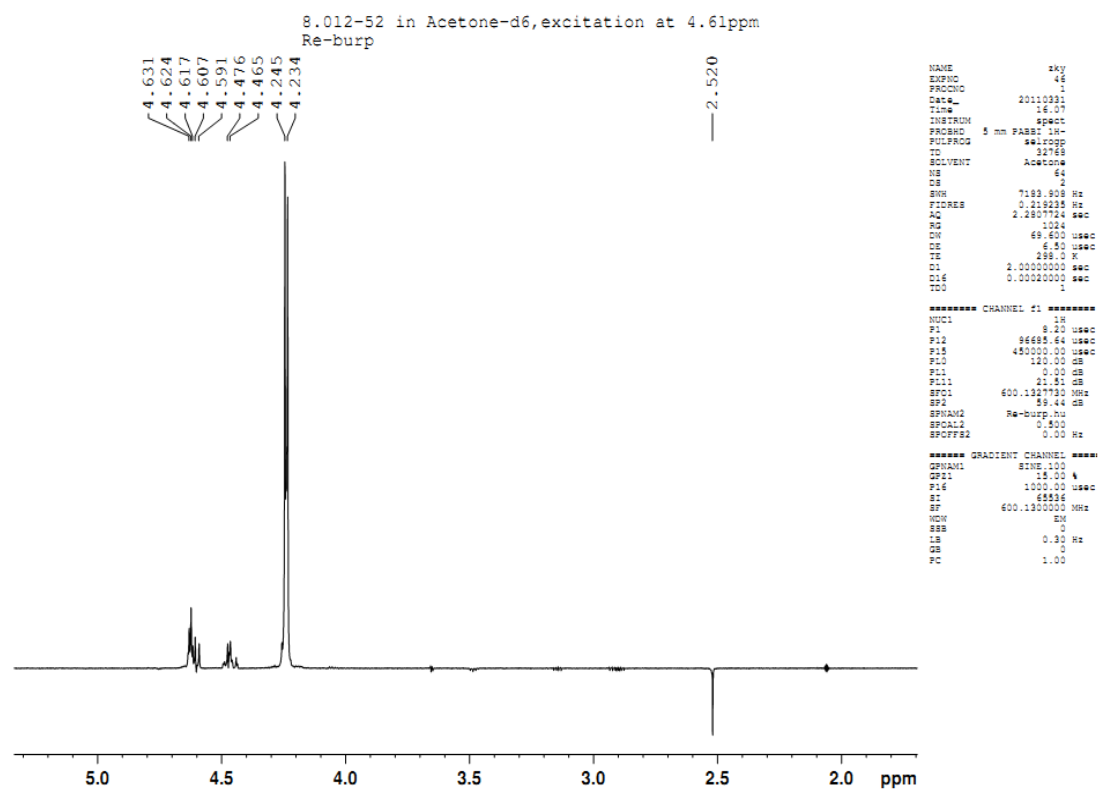
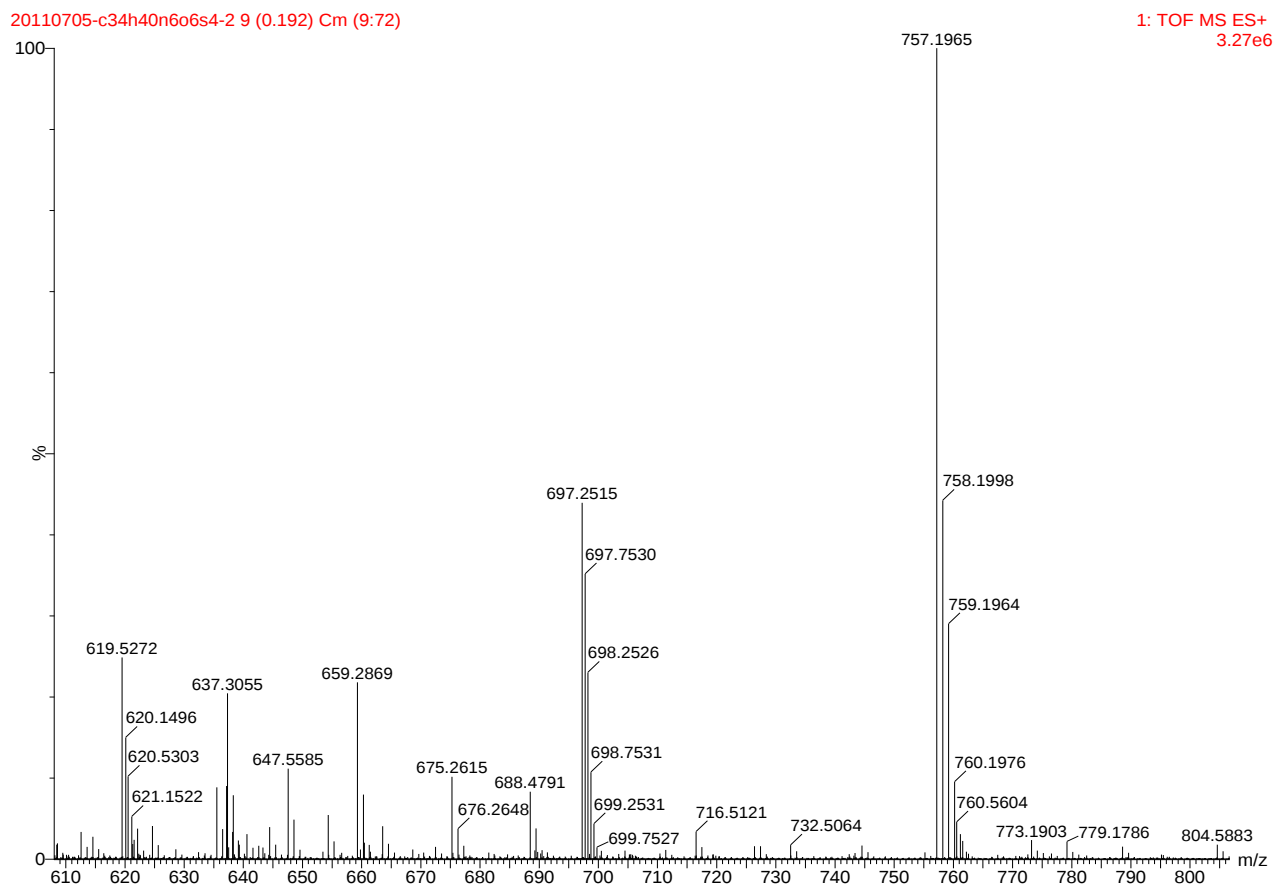
Figure S13. NOE difference spectrum (H-8b irradiated) (600 MHz, Acetone- d_6) of **1**.**Figure S14.** HR-ESI-MS spectrum of **2**.

Figure S15. UV spectrum of 2.

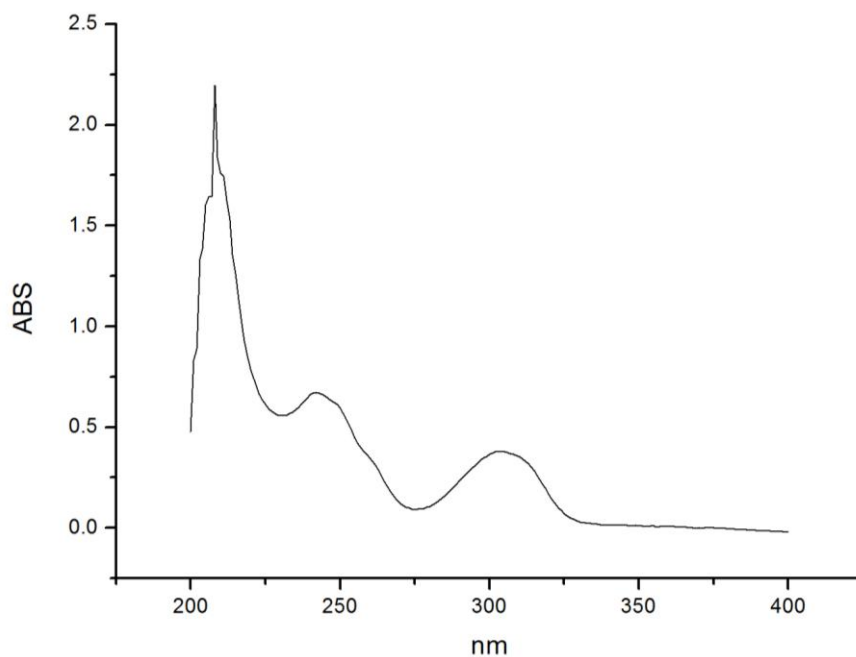


Figure S16. IR spectrum of 2.

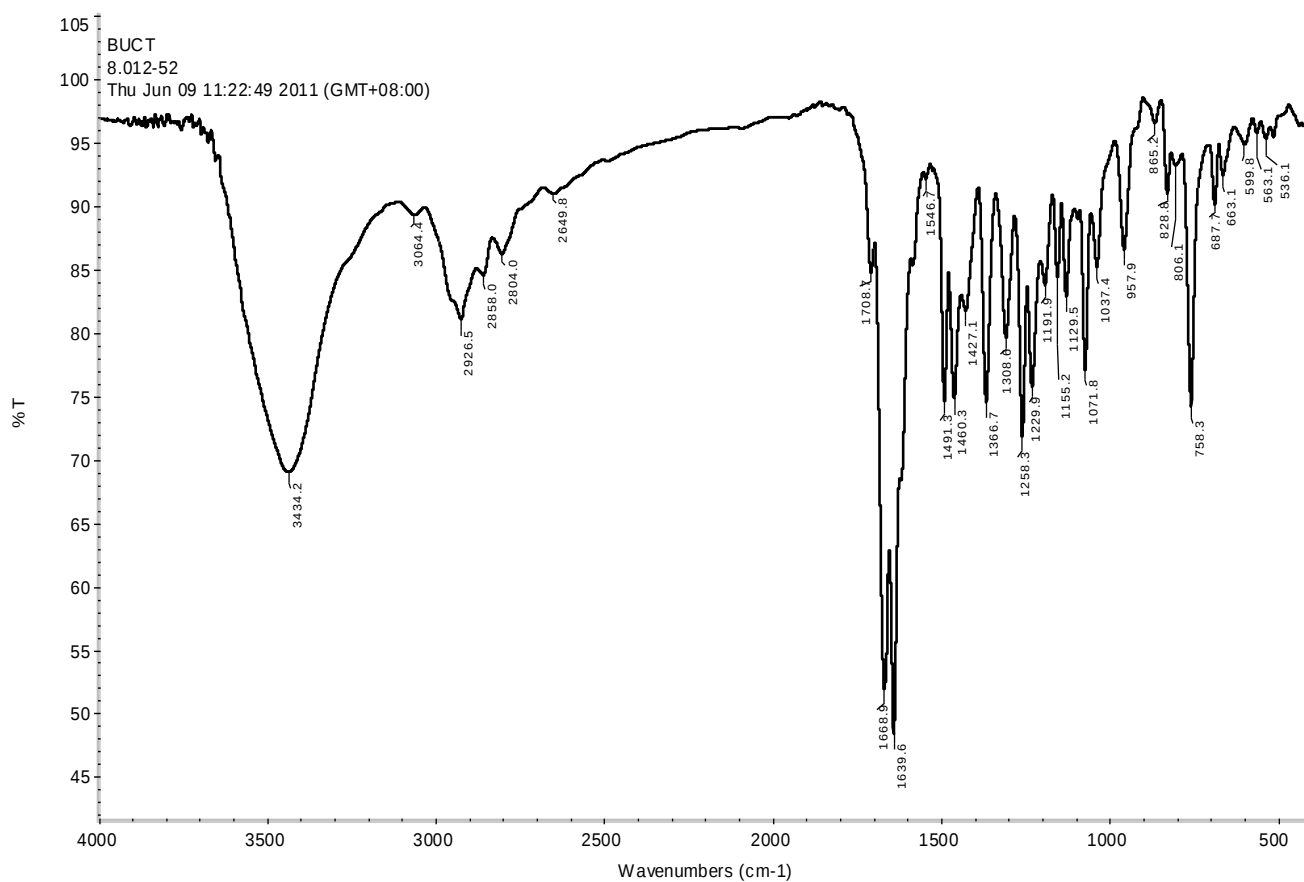


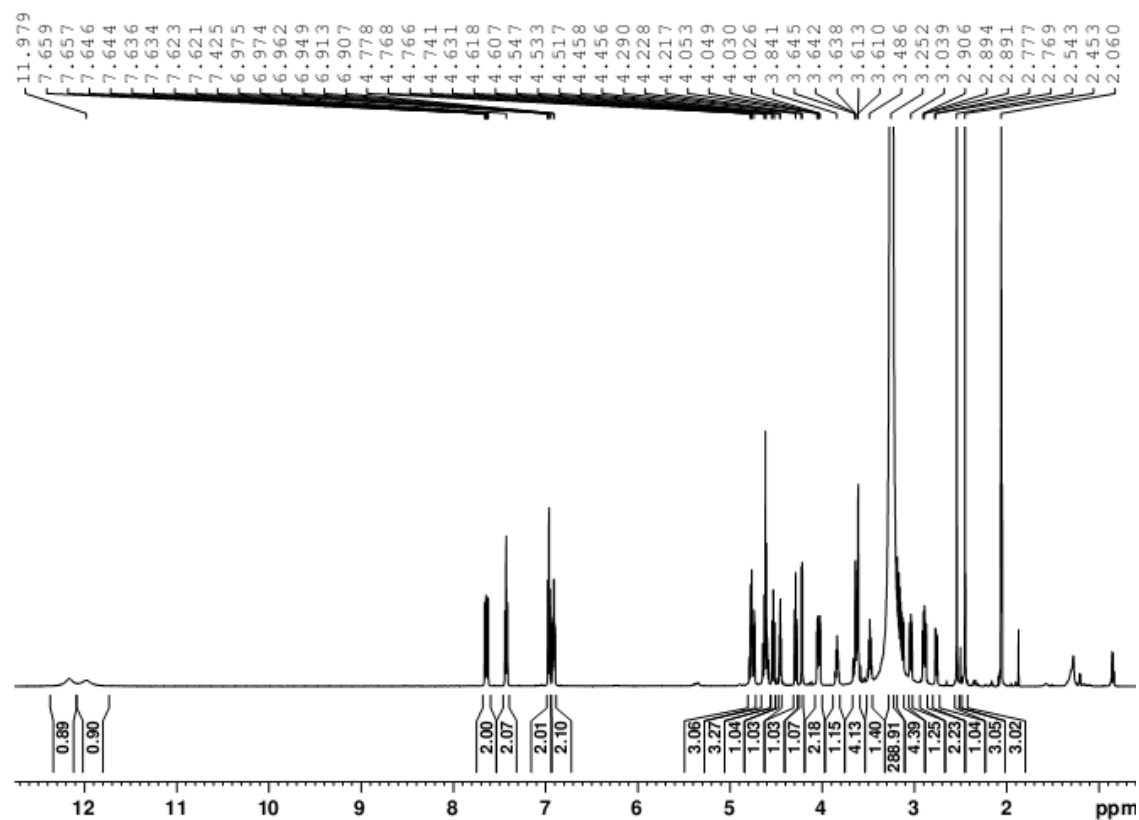
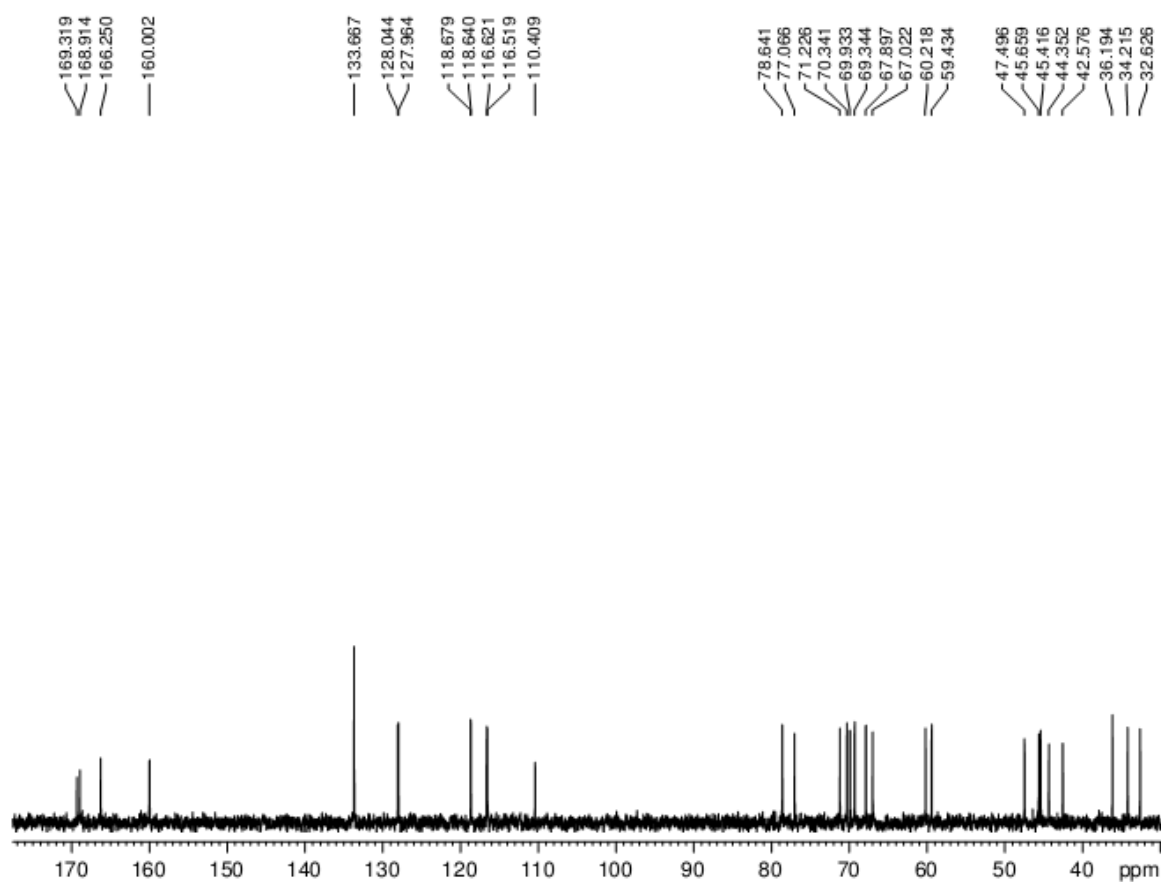
Figure S17. ^1H -NMR spectrum (600 MHz, Acetone- d_6) of 2.**Figure S18.** ^{13}C -NMR spectrum (150 MHz, Acetone- d_6) of 2.

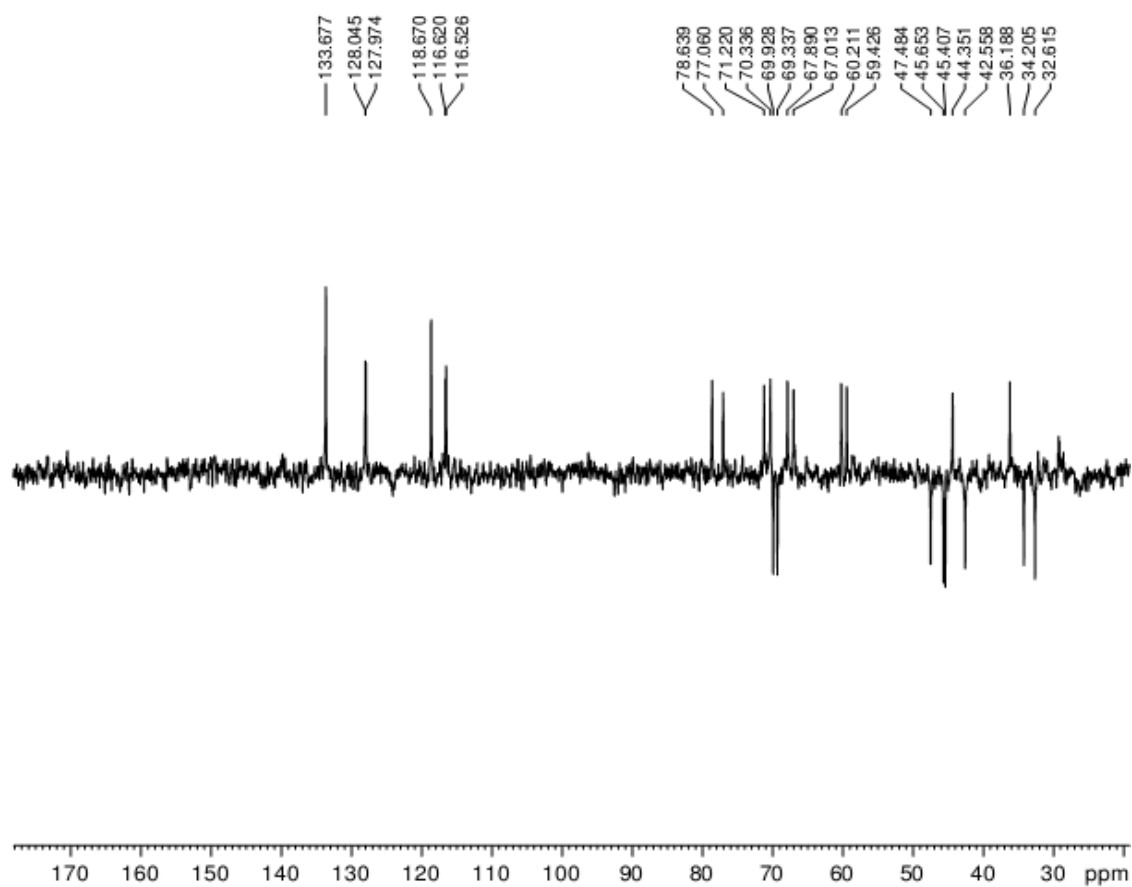
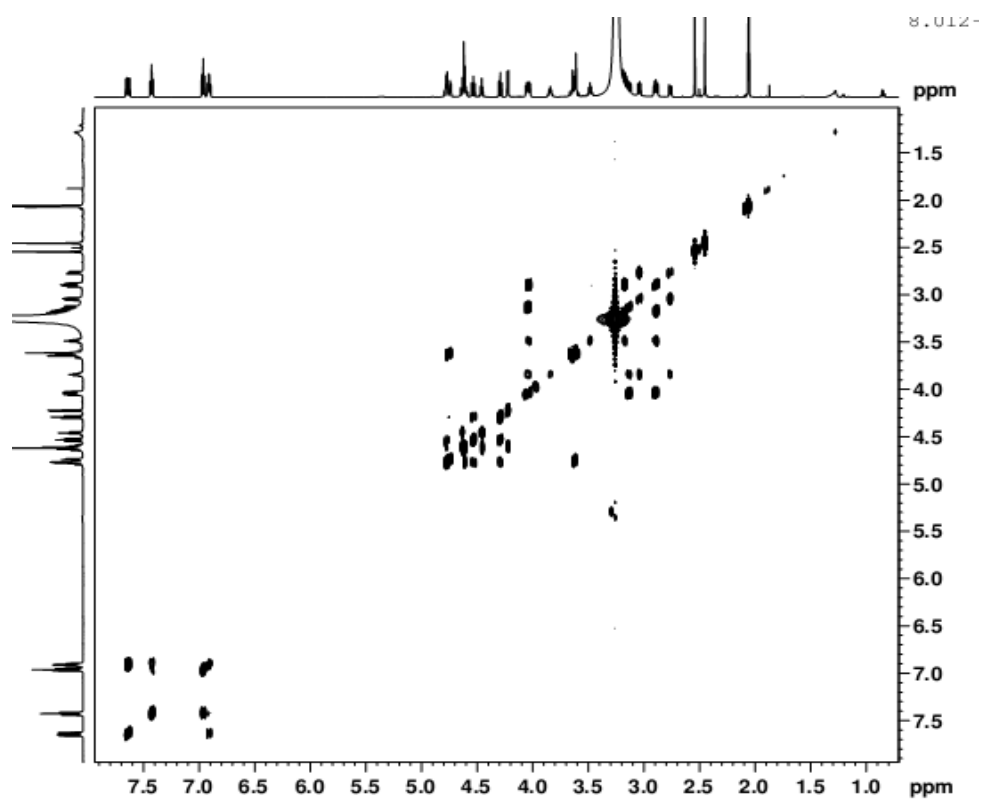
Figure S19. DEPT135 spectrum (150 MHz, Acetone- d_6) of **2**.**Figure S20.** ^1H - ^1H -COSY spectrum (600 $\times$ 600 MHz, Acetone- d_6) of **2**.

Figure S21. ^1H - ^{13}C -HSQC spectrum (600 $\times$ 150 MHz, Acetone- d_6) of **2**.

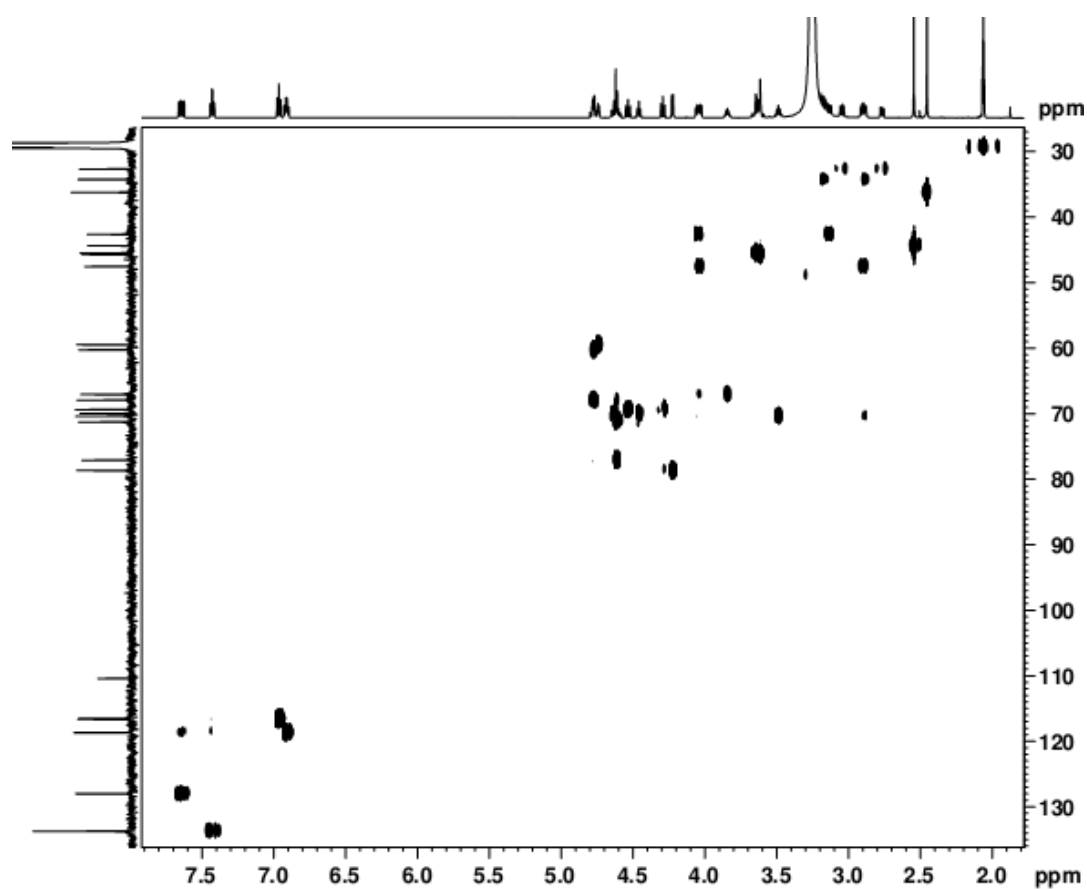


Figure S22. ^1H - ^{13}C -HMBC spectrum (600 $\times$ 150 MHz, Acetone- d_6) of **2**.

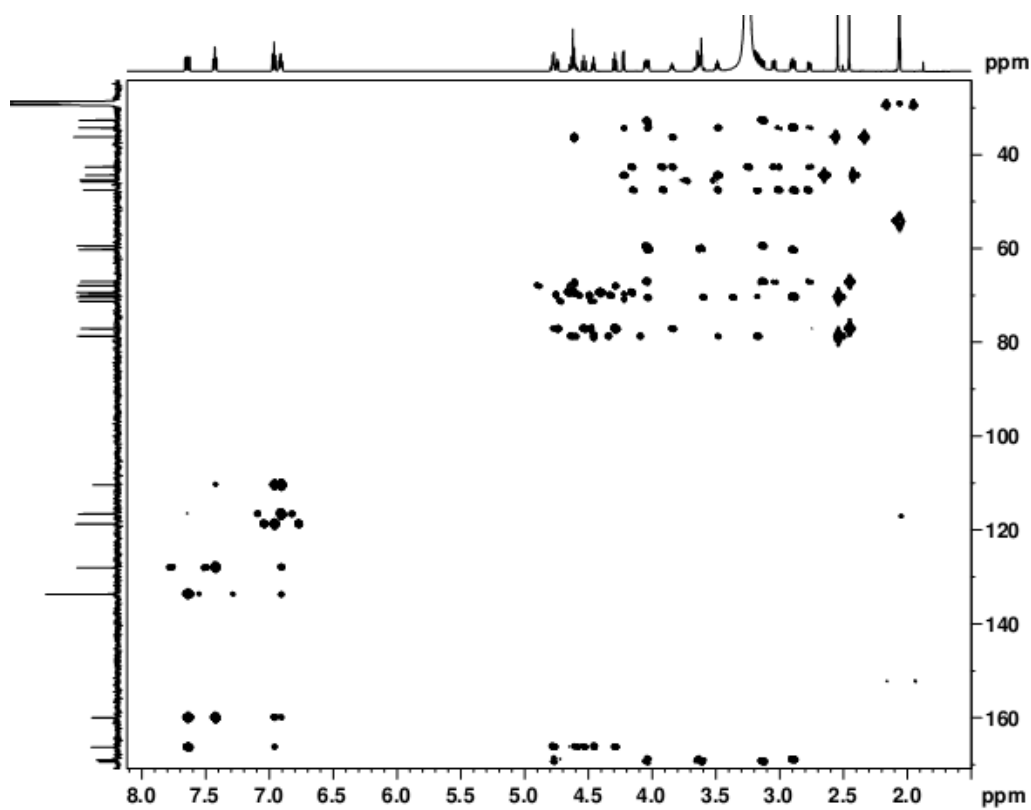


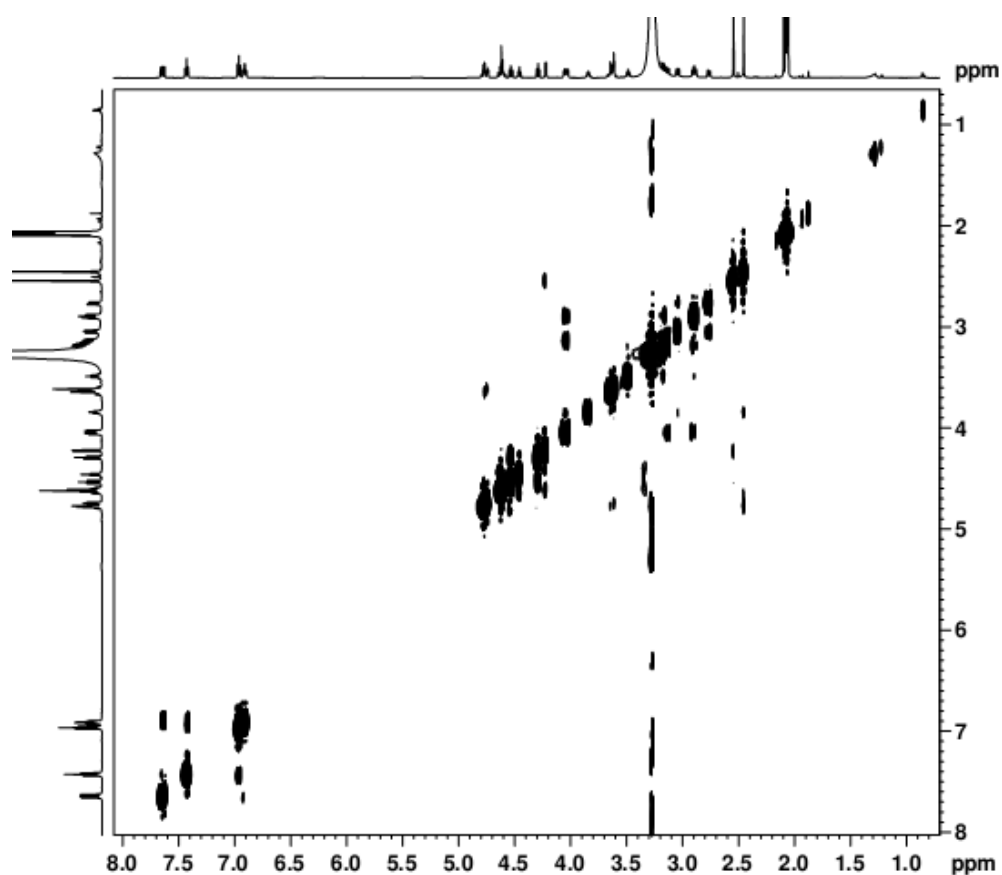
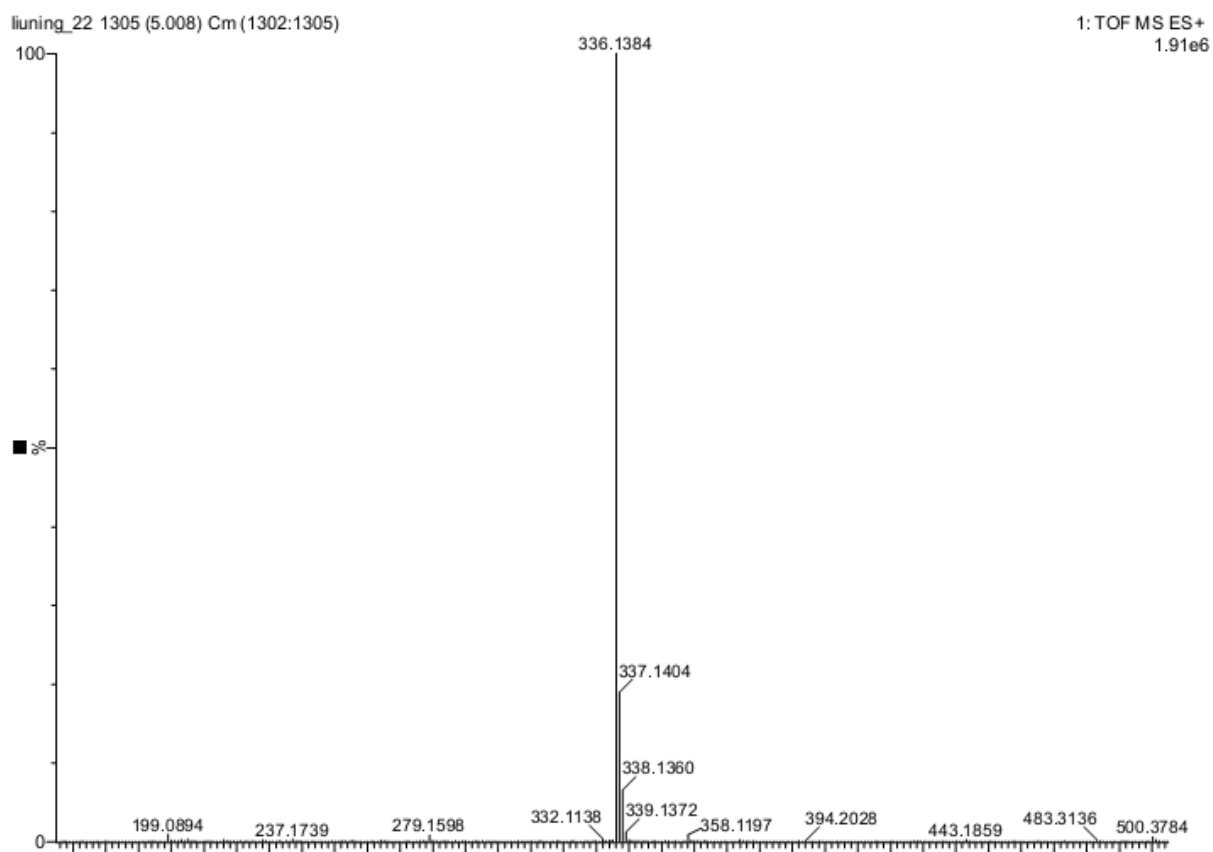
Figure S23. ^1H - ^1H -ROESY spectrum (600 $\times$ 600 MHz, Acetone- d_6) of **2**.**Figure S24.** HR-ESI-MS spectrum of **3**.

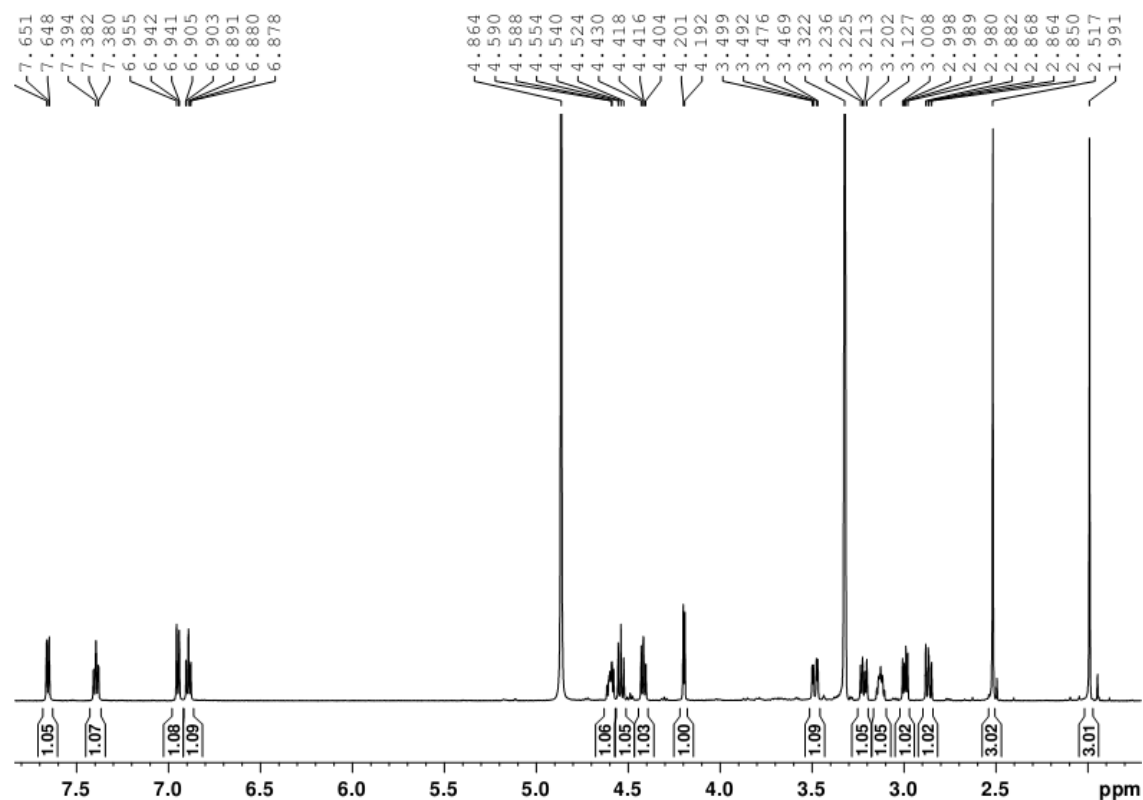
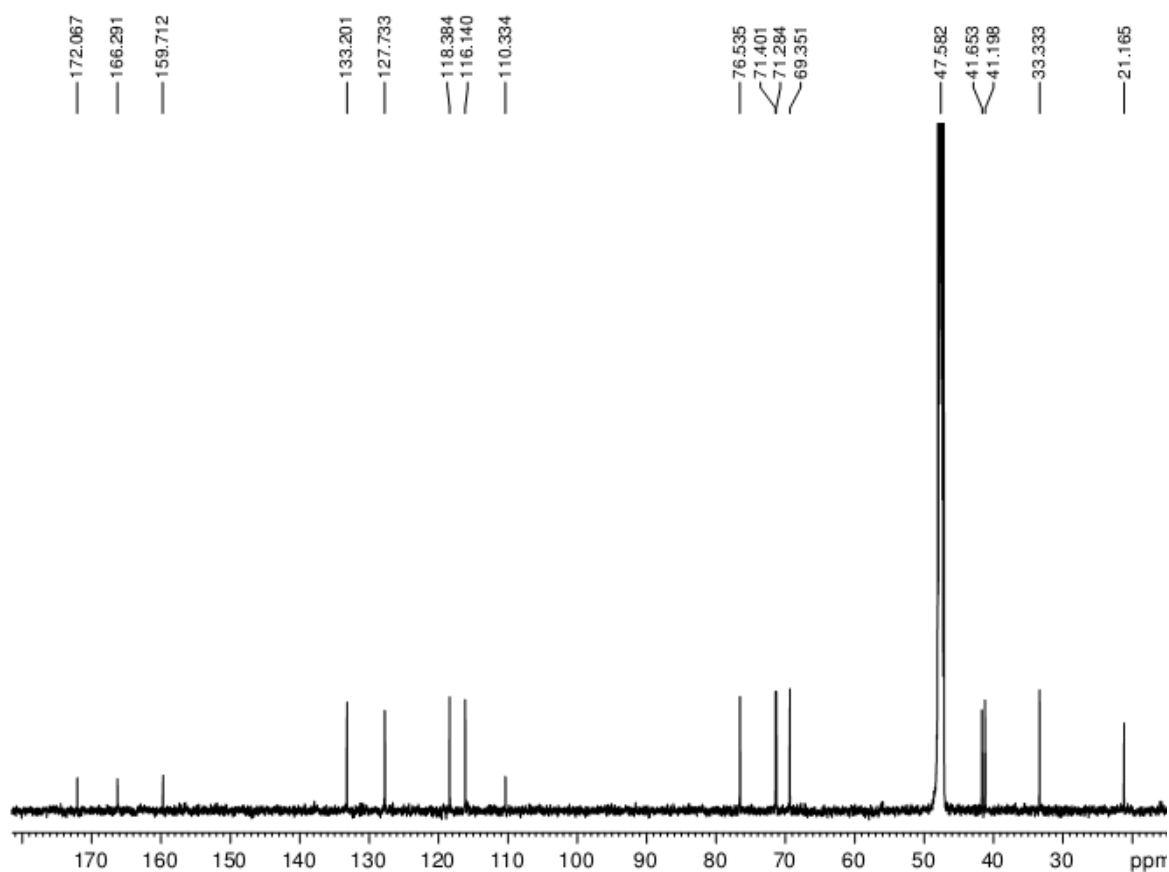
Figure S25. ^1H -NMR spectrum (600 MHz, CD_3OD) of **3**.**Figure S26.** ^{13}C -NMR spectrum (150 MHz, CD_3OD) of **3**.

Figure S27. HR-ESI-MS spectrum of 4.

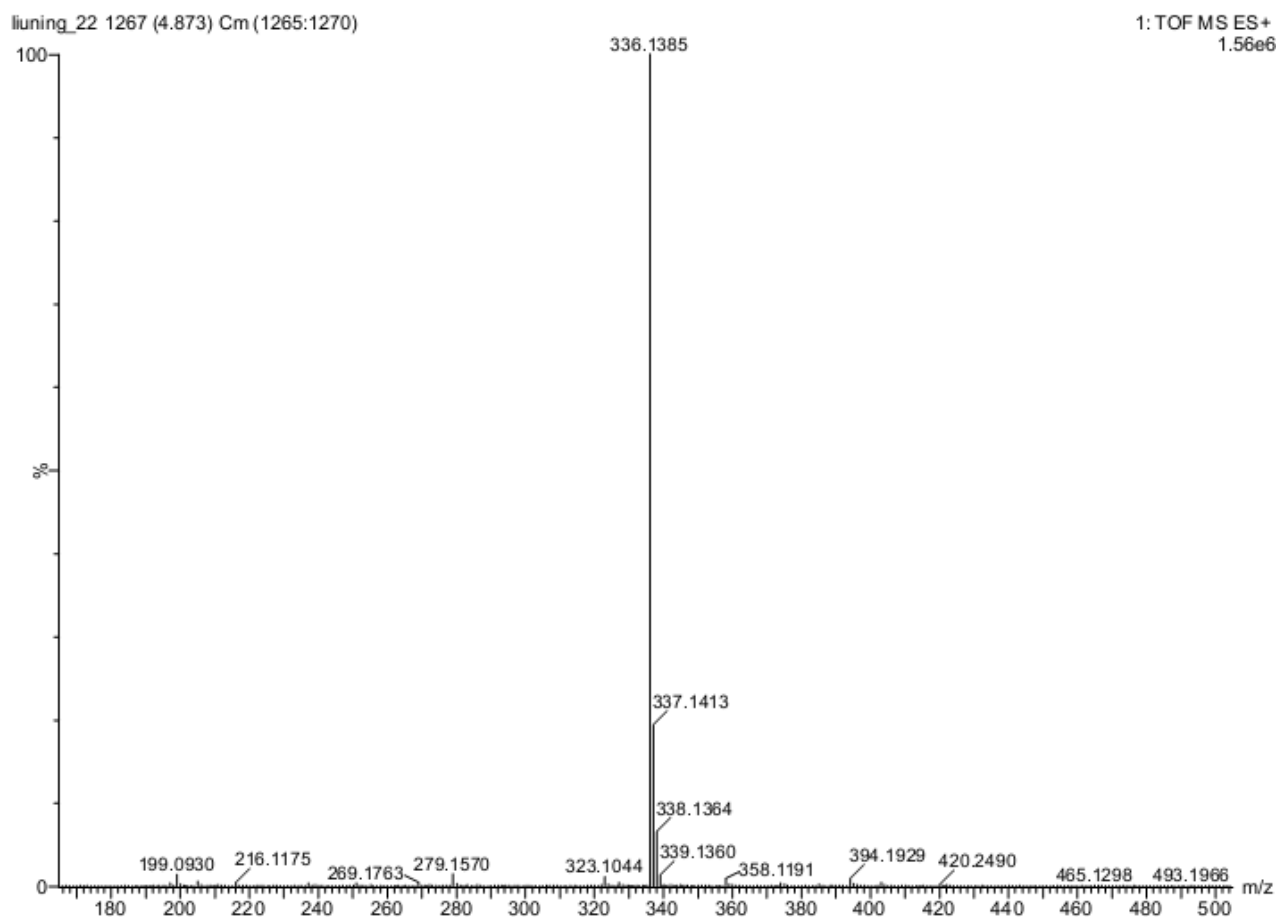
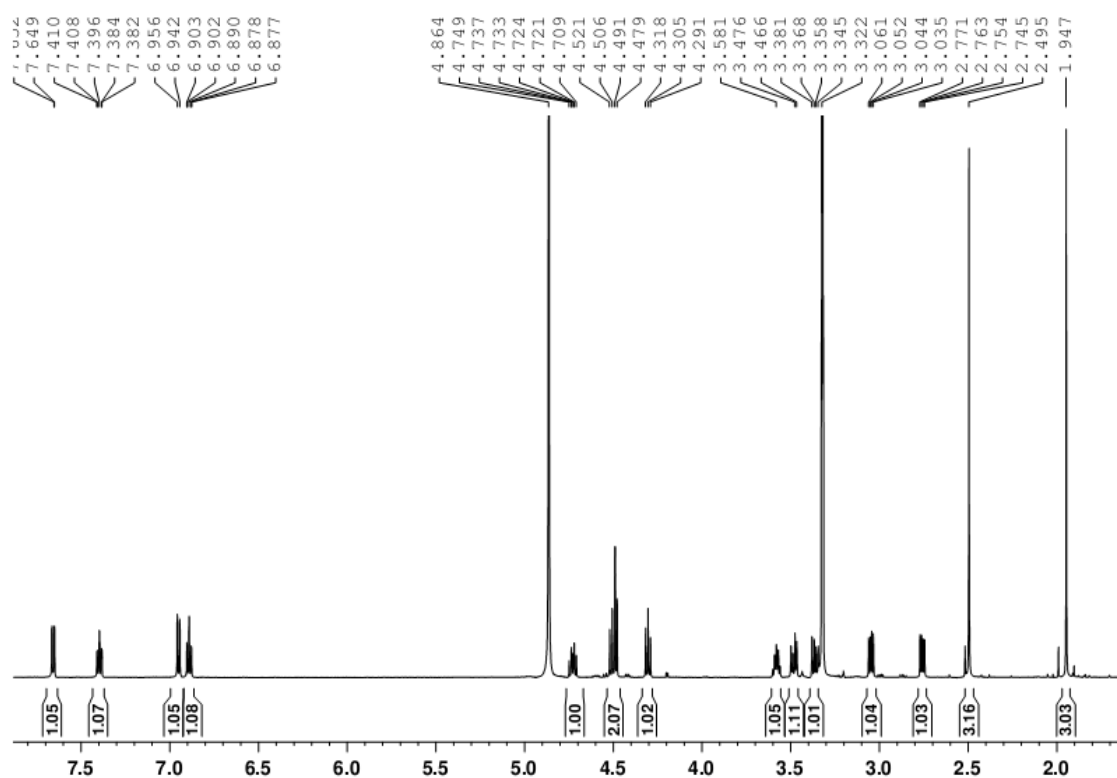
Figure S28. ^1H -NMR spectrum (600 MHz, CD_3OD) of 4.

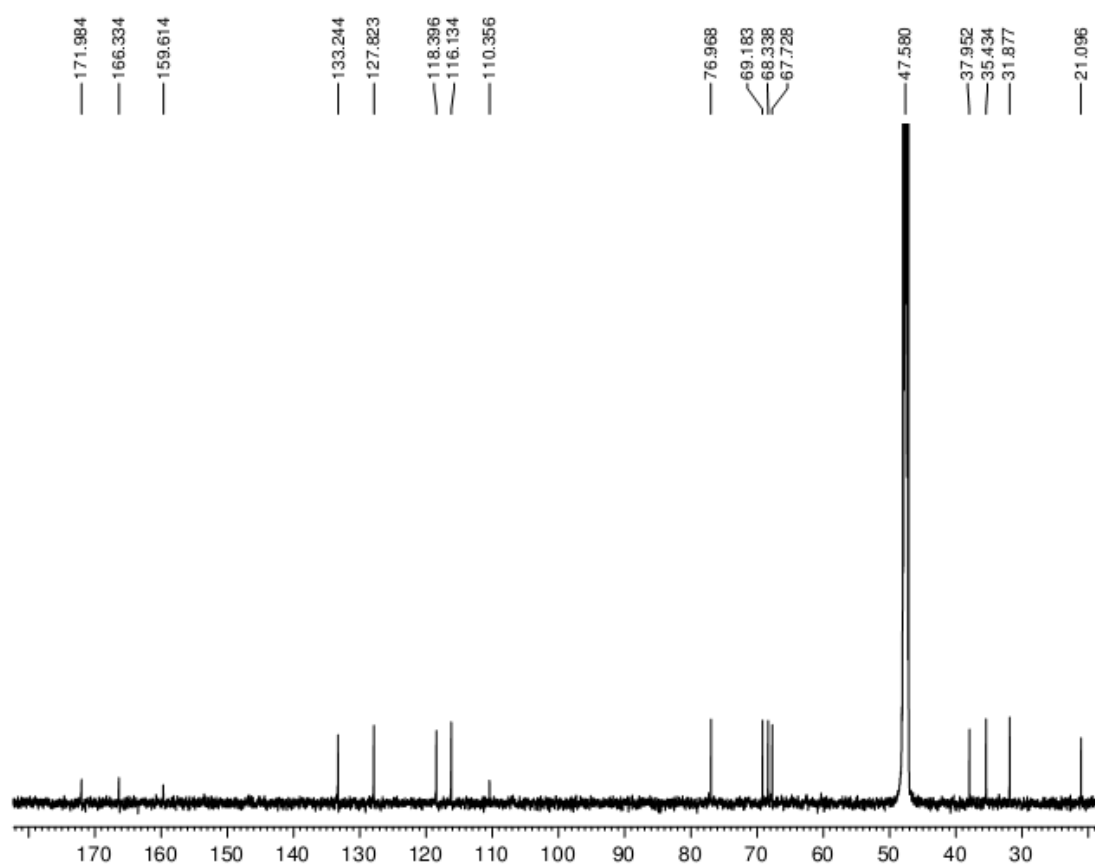
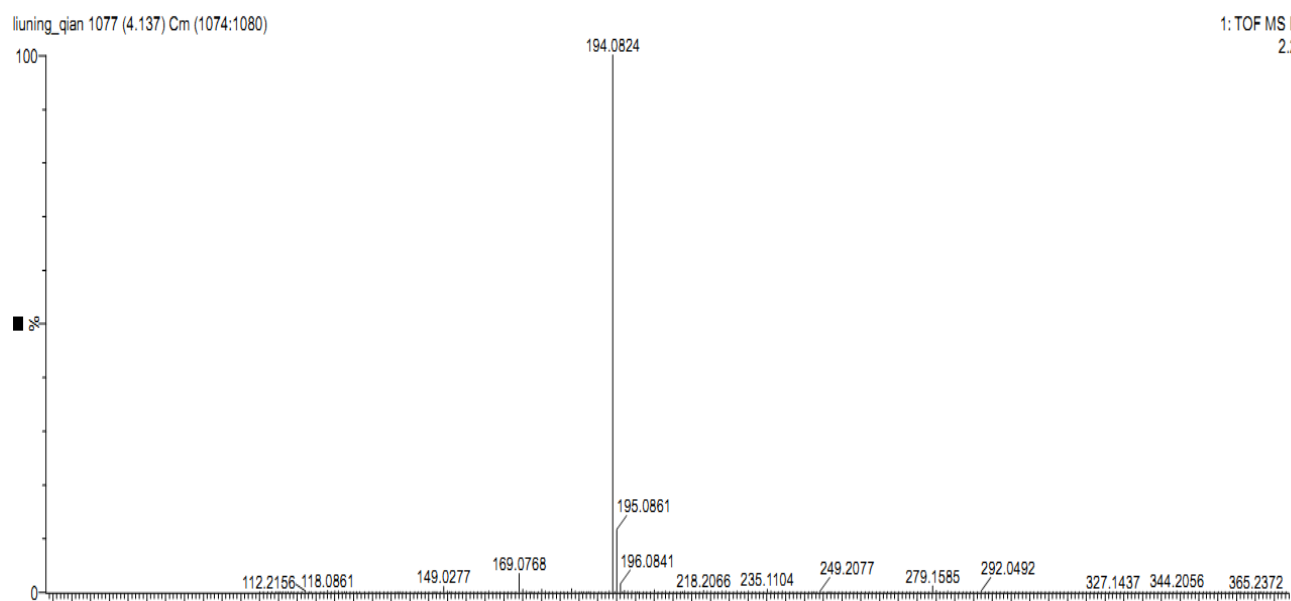
Figure S29. ^{13}C -NMR spectrum (150 MHz, CD_3OD) of **4**.**Figure S30.** HR-ESI-MS spectrum of **5**.

Figure S31. ^1H -NMR spectrum (400 MHz, Acetone- d_6) of 5.