

Supplementary materials for

Anti-inflammatory cembrane-type diterpenoids and prostaglandins from soft coral *Lobophytum sarcophytoides*

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Figure S1. HR-ESIMS of 1	4
Figure S2. IR spectrum of 1	4
Figure S3. ¹ H (400 MHz) NMR spectrum of 1 in acetone- <i>d</i> ₆	5
Figure S4. ¹³ C NMR spectrum of 1 in acetone- <i>d</i> ₆	5
Figure S5. ¹ H- ¹ H COSY spectrum of 1 in acetone- <i>d</i> ₆	6
Figure S6. HSQC spectrum of 1 in acetone- <i>d</i> ₆	6
Figure S7. HMBC spectrum of 1 in acetone- <i>d</i> ₆	7
Figure S8. NOESY spectrum of 1 in acetone- <i>d</i> ₆	8
Figure S9. HR-ESIMS of 3	8
Figure S10. IR spectrum of 3	9
Figure S11. ¹ H (400 MHz) NMR spectrum of 3 in CDCl ₃	9
Figure S12. ¹³ C NMR spectrum of 3 in CDCl ₃	10
Figure S13. ¹ H- ¹ H COSY spectrum of 3 in CDCl ₃	10
Figure S14. HSQC spectrum of 3 in CDCl ₃	11
Figure S15. HMBC spectrum of 3 in CDCl ₃	11
Figure S16. NOESY spectrum of 3 in CDCl ₃	12
Figure S17. HR-ESIMS of 10	12
Figure S18. IR spectrum of 10	13
Figure S19. ¹ H (400 MHz) NMR spectrum of 10 in MeOH- <i>d</i> ₄	13
Figure S20. ¹³ C NMR spectrum of 10 in MeOH- <i>d</i> ₄	14
Figure S21. ¹ H- ¹ H COSY spectrum of 10 in MeOH- <i>d</i> ₄	14
Figure S22. HSQC spectrum of 10 in MeOH- <i>d</i> ₄	15
Figure S23. HMBC spectrum of 10 in MeOH- <i>d</i> ₄	16
Figure S24. NOESY spectrum of 10 in MeOH- <i>d</i> ₄	16
Figure S25. HR-ESIMS of 11	17
Figure S26. IR spectrum of 11	17
Figure S27. ¹ H (400 MHz) NMR spectrum of 11 in MeOH- <i>d</i> ₄	18
Figure S28. ¹³ C NMR spectrum of 11 in MeOH- <i>d</i> ₄	18
Figure S29. ¹ H- ¹ H COSY spectrum of 11 in MeOH- <i>d</i> ₄	19
Figure S30. HSQC spectrum of 11 in MeOH- <i>d</i> ₄	19
Figure S31. HMBC spectrum of 11 in MeOH- <i>d</i> ₄	20

Figure S32. HR-ESIMS of 12	21
Figure S33. IR spectrum of 12	21
Figure S34. ^1H (400 MHz) NMR spectrum of 12 in $\text{MeOH-}d_4$	22
Figure S35. ^{13}C NMR spectrum of 11 in $\text{MeOH-}d_4$	22
Figure S36. $^1\text{H-}^1\text{H}$ COSY spectrum of 12 in $\text{MeOH-}d_4$	23
Figure S37. HSQC spectrum of 12 in $\text{MeOH-}d_4$	23
Figure S38. HMBC spectrum of 12 in $\text{MeOH-}d_4$	24
Figure S39. NOESY spectrum of 12 in $\text{MeOH-}d_4$	24
Figure S40. HR-ESIMS of 13	25
Figure S41. IR spectrum of 13	25
Figure S42. ^1H (400 MHz) NMR spectrum of 13 in $\text{acetone-}d_6$	26
Figure S43. ^{13}C NMR spectrum of 13 in $\text{acetone-}d_6$	26
Figure S44. $^1\text{H-}^1\text{H}$ COSY spectrum of 13 in $\text{acetone-}d_6$	27
Figure S45. HSQC spectrum of 13 in $\text{acetone-}d_6$	27
Figure S46. HMBC spectrum of 13 in $\text{acetone-}d_6$	28
Figure S47. ^1H (400 MHz) NMR spectrum of 10a in $\text{pyridine-}d_5$	28
Figure S48. ^1H (400 MHz) NMR spectrum of 10b in $\text{pyridine-}d_5$	29
Figure S49. ^1H (400 MHz) NMR spectrum of 15a in $\text{pyridine-}d_5$	29
Figure S50. $^1\text{H-}^1\text{H}$ COSY spectrum of 15a in $\text{pyridine-}d_5$	30
Figure S51. ^1H (400 MHz) NMR spectrum of 15b in $\text{pyridine-}d_5$	30
Figure S52. $^1\text{H-}^1\text{H}$ COSY spectrum of 15b in $\text{pyridine-}d_5$	31

Figure S1. HR-ESIMS of 1.

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1901A1037-40-2-3-2-3-35-neg 21 (0.135) Cm (18:24)

1: TOF MS ES-
2.02e6

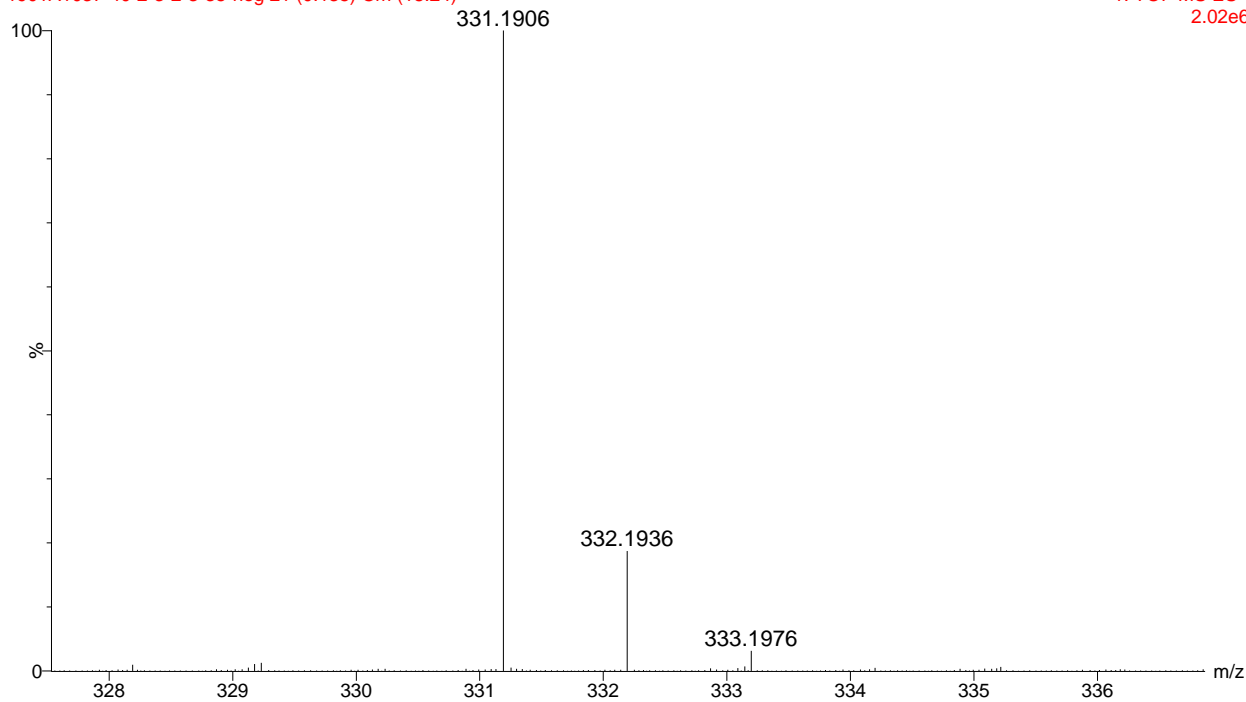


Figure S2. IR spectrum of 1.

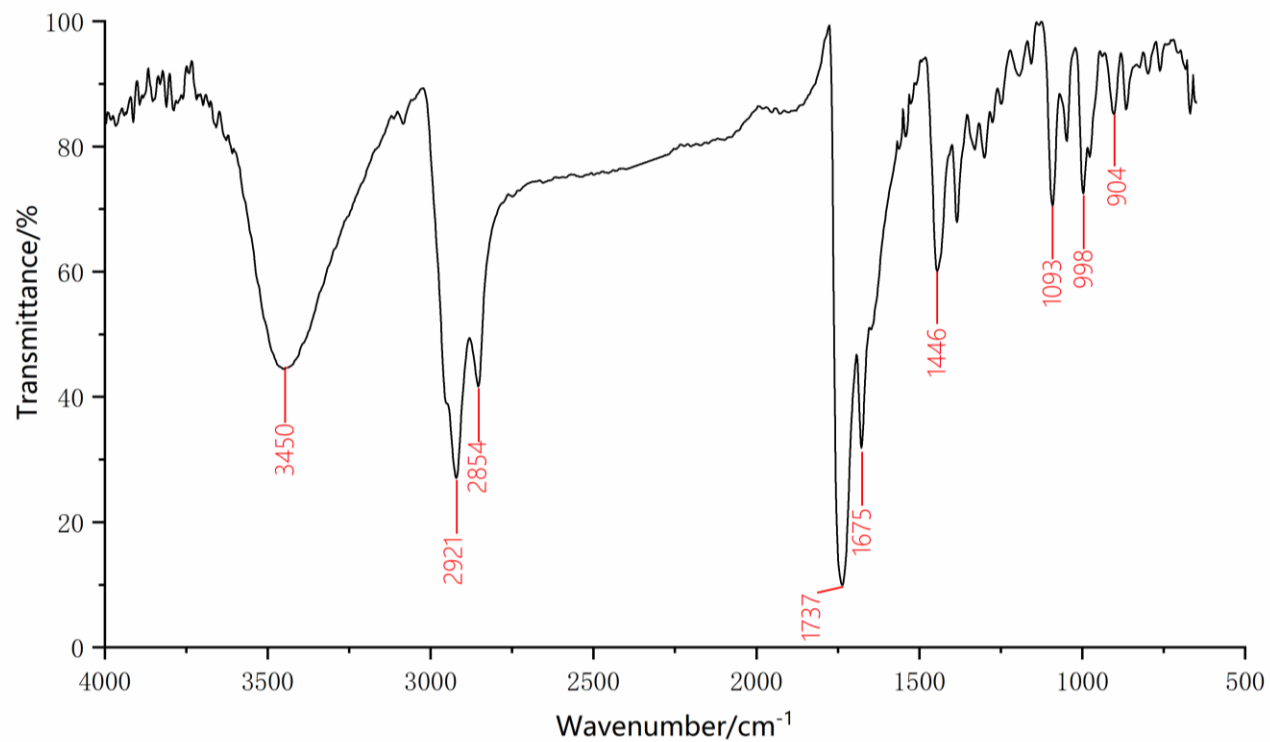


Figure S3. ^1H (400 MHz) NMR spectrum of **1** in acetone- d_6 .

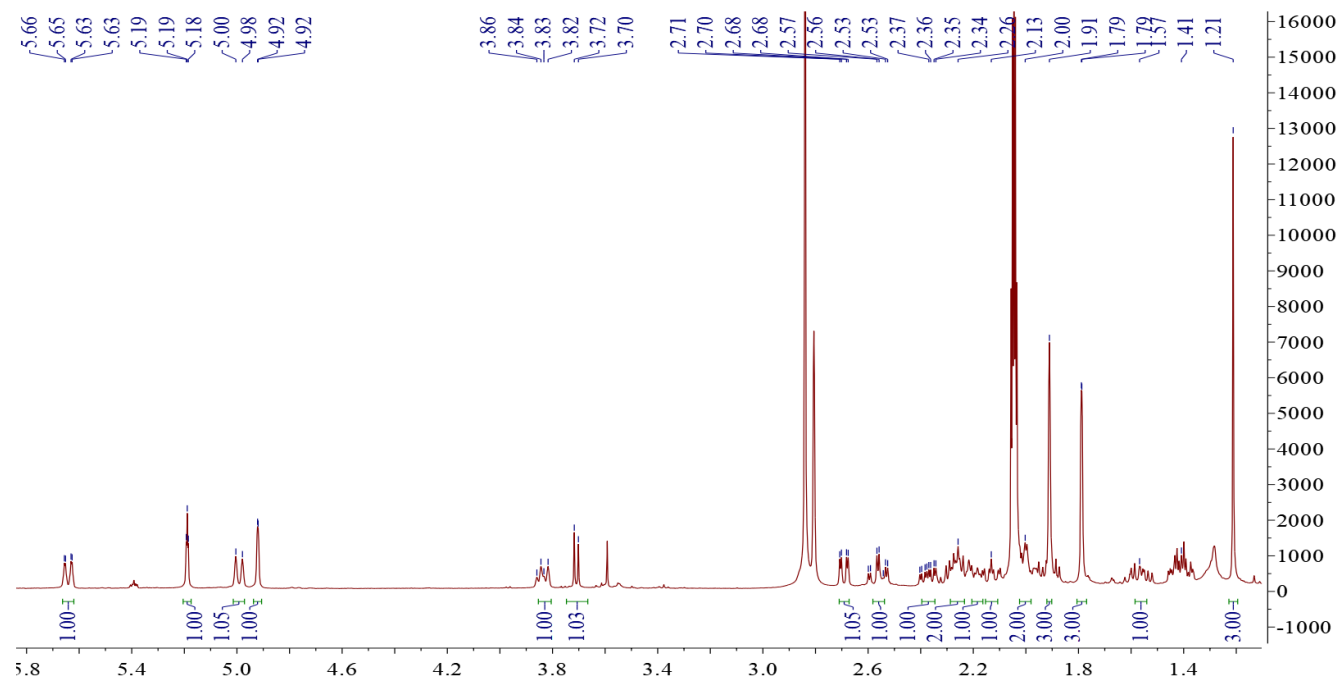


Figure S4. ^{13}C NMR spectrum of **1** in acetone- d_6 .

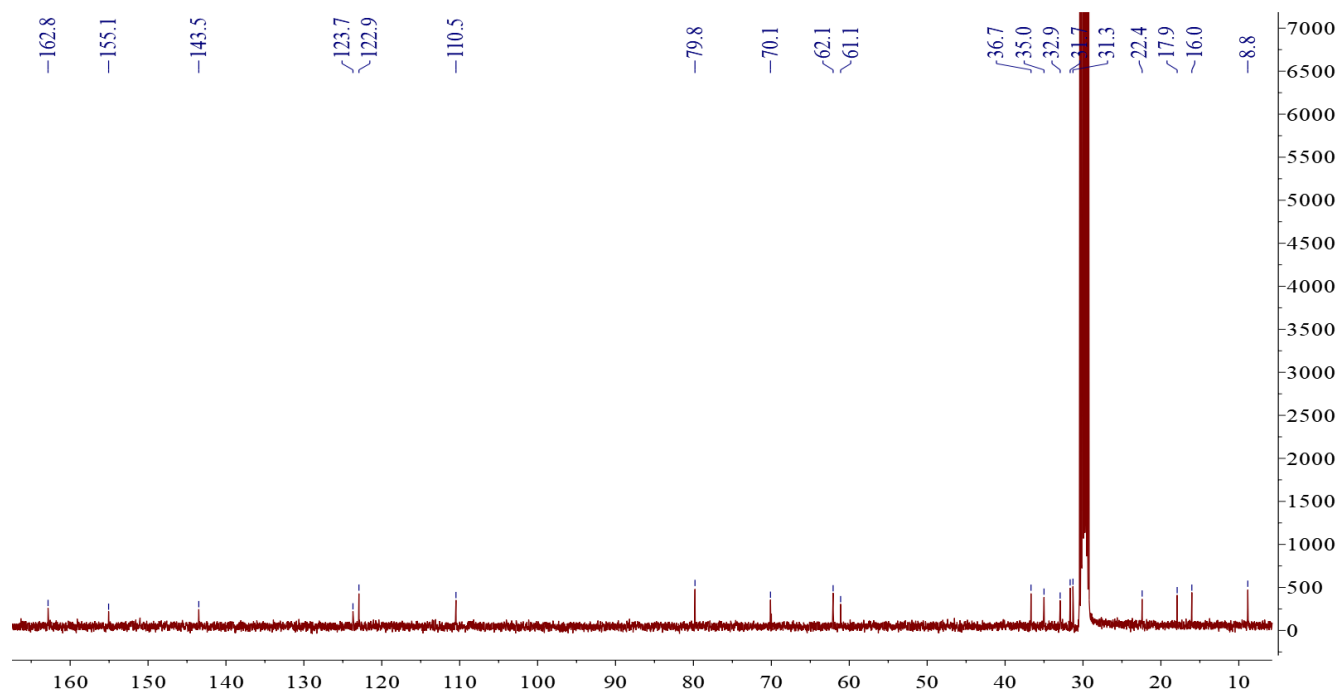


Figure S5. ^1H - ^1H COSY spectrum of **1** in acetone- d_6 .

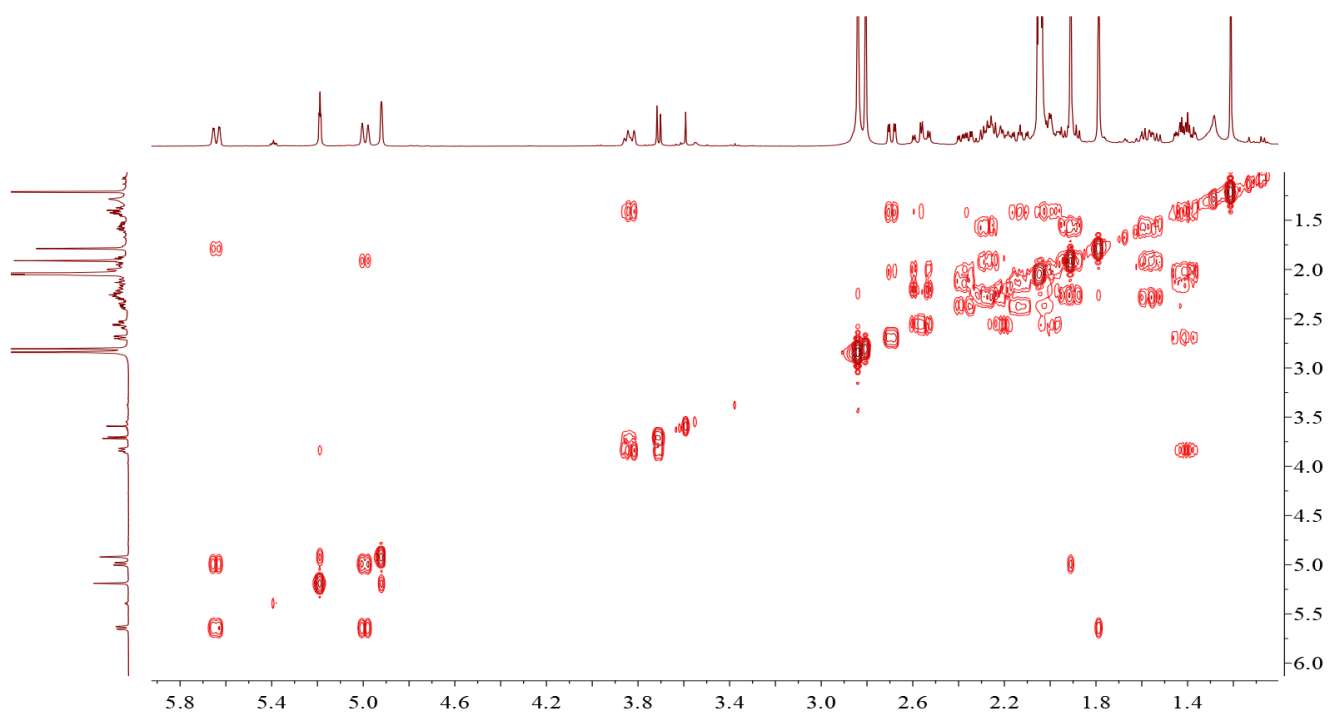


Figure S6. HSQC spectrum of **1** in acetone- d_6 .

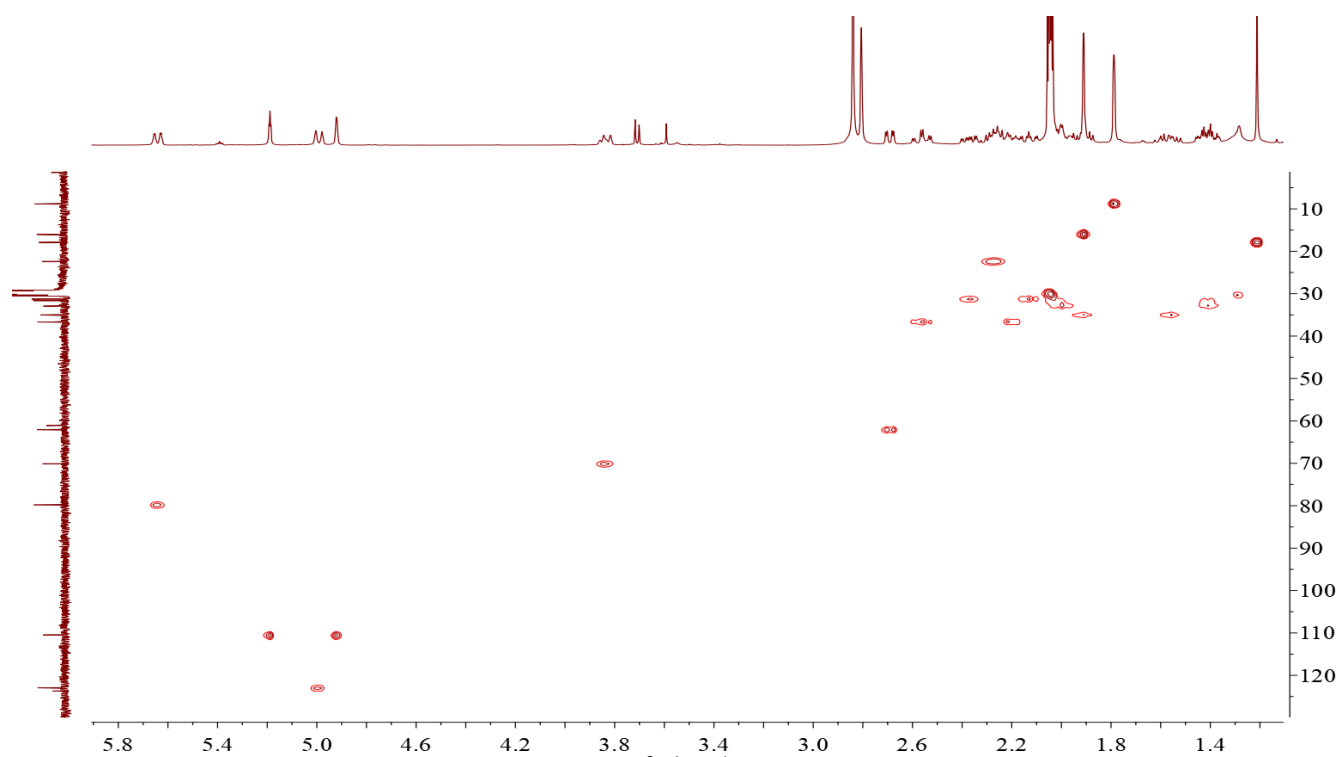


Figure S7. HMBC spectrum of **1** in acetone-*d*₆.

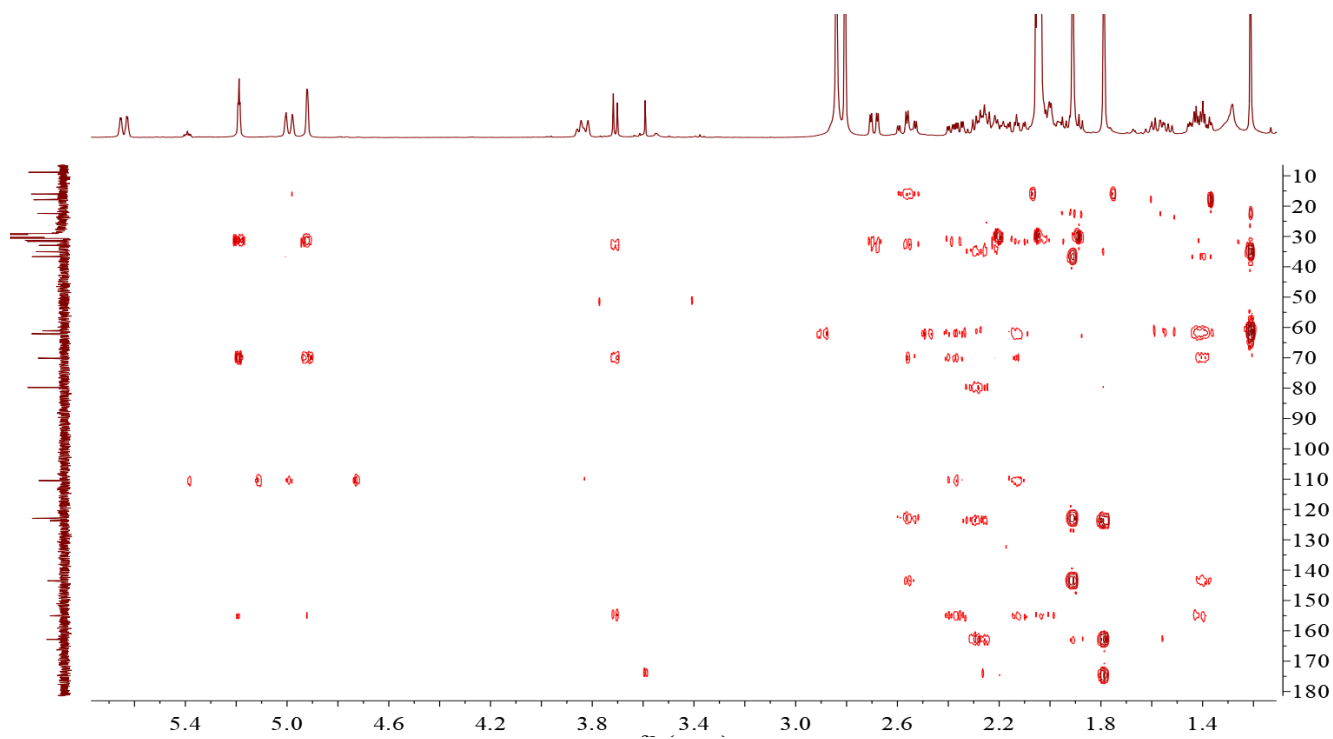


Figure S8. NOESY spectrum of **1** in acetone-*d*₆.

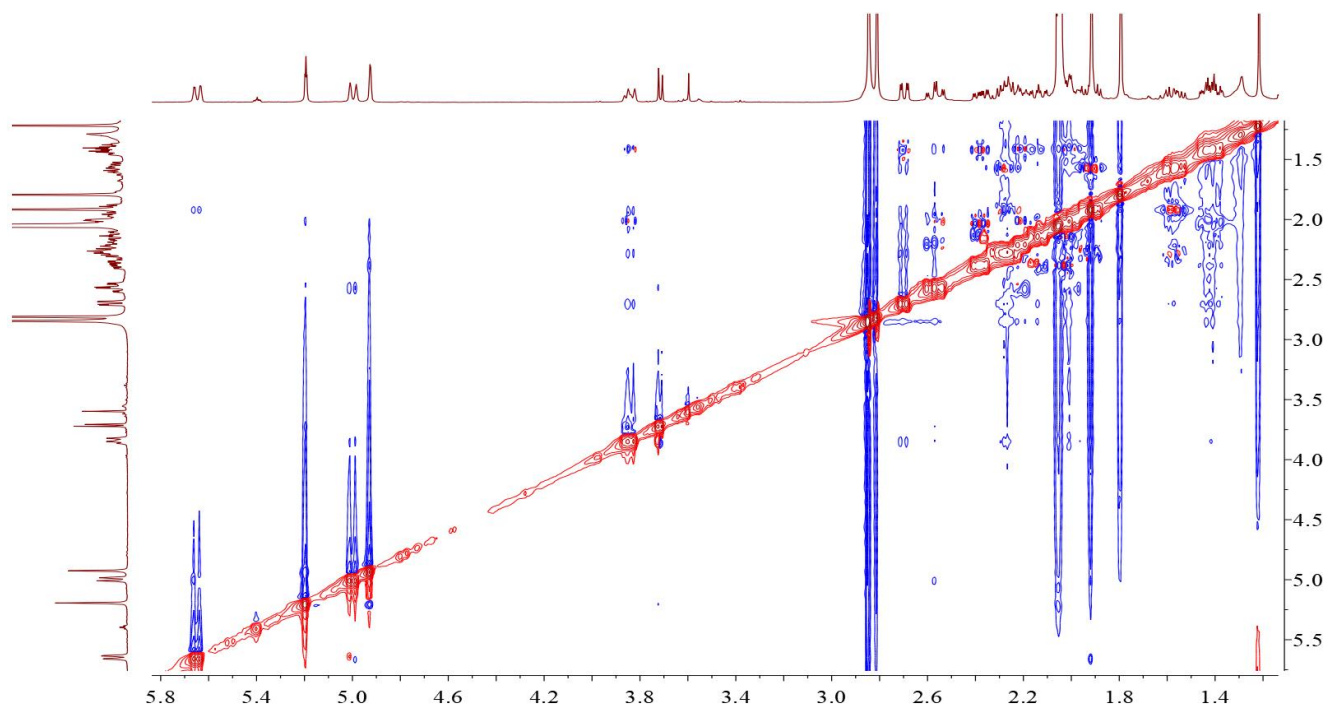


Figure S9. HR-ESIMS of **3**

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LTQ Orbitrap Elite

6/6/2019 6:08:39 PM

B-17-3-10-2

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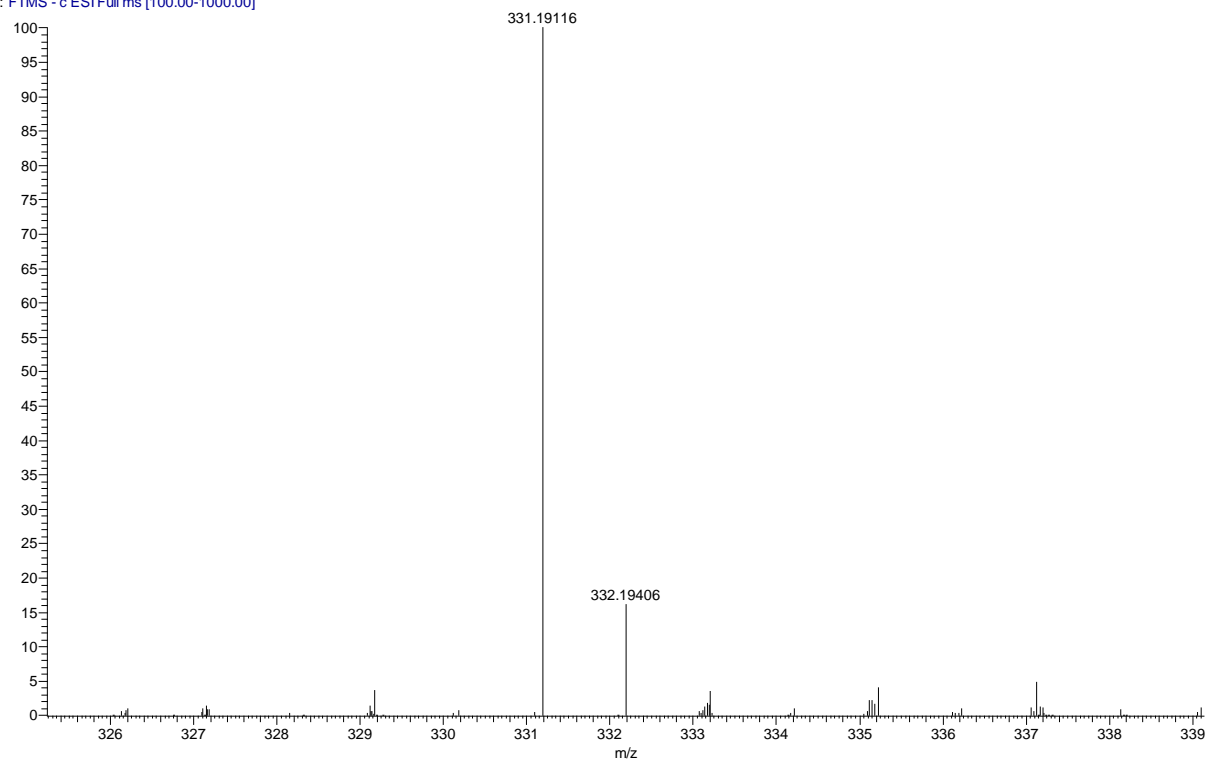


Figure S10. IR spectrum of **3**

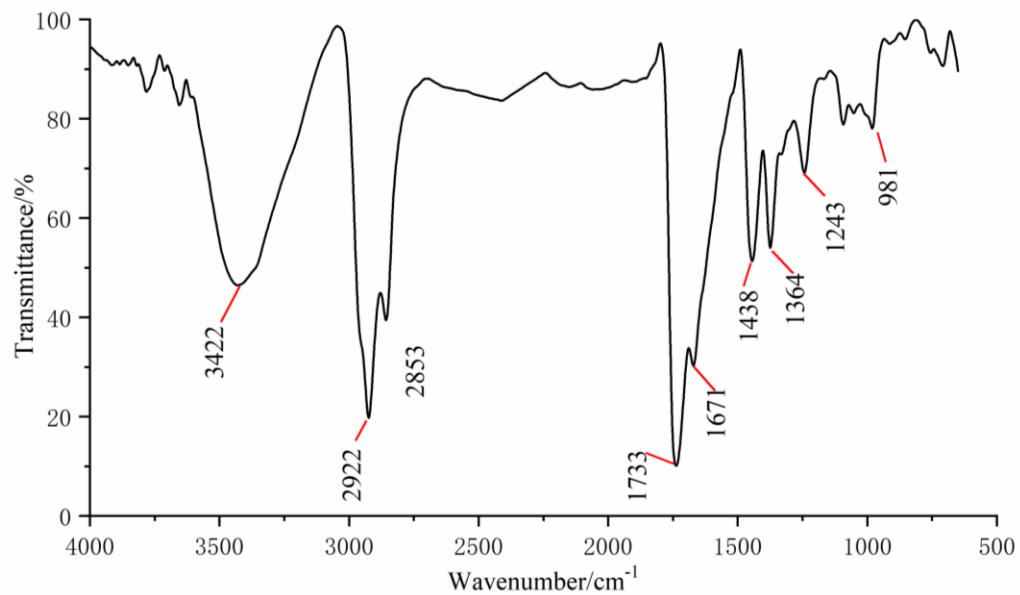


Figure S11. ¹H (400 MHz) NMR spectrum of **3** in CDCl₃

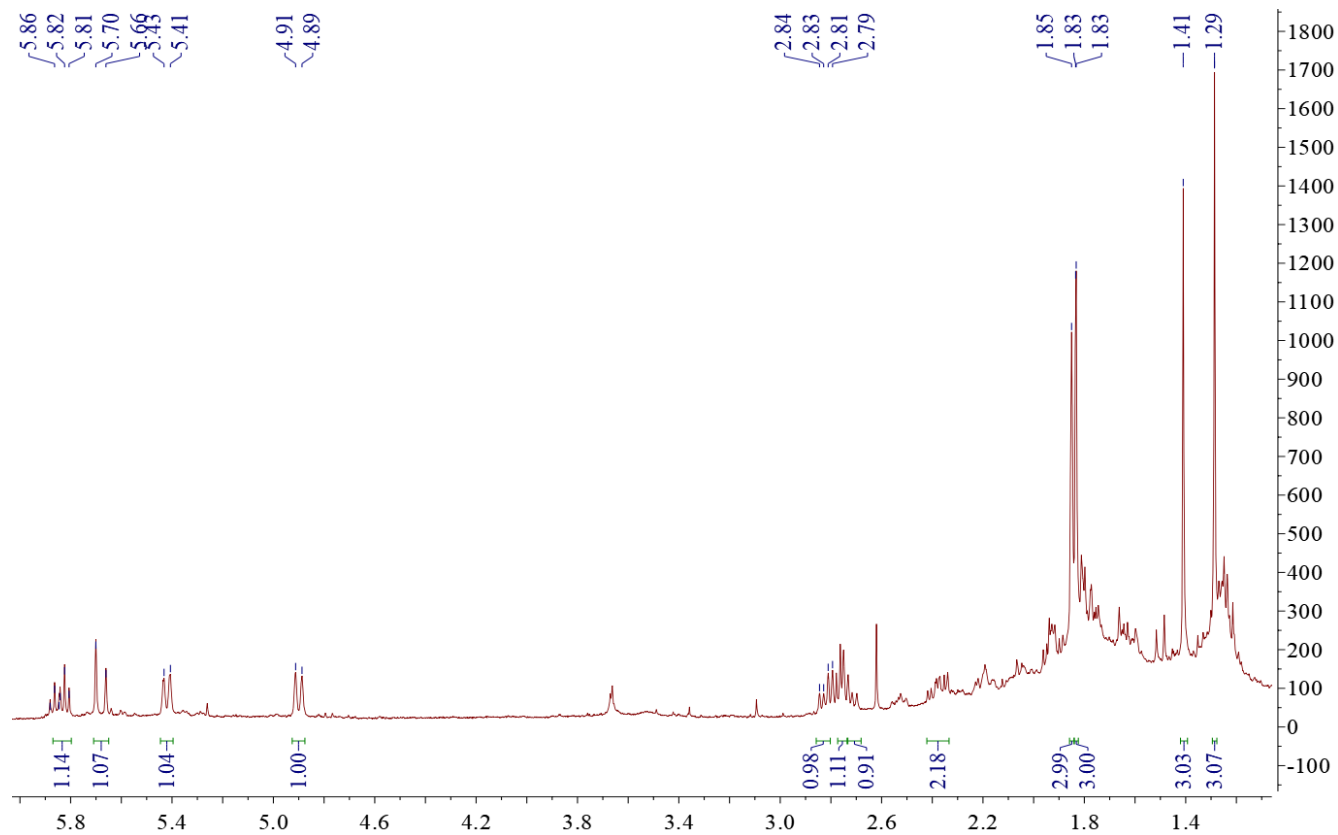


Figure S12. ^{13}C NMR spectrum of **3** in CDCl_3

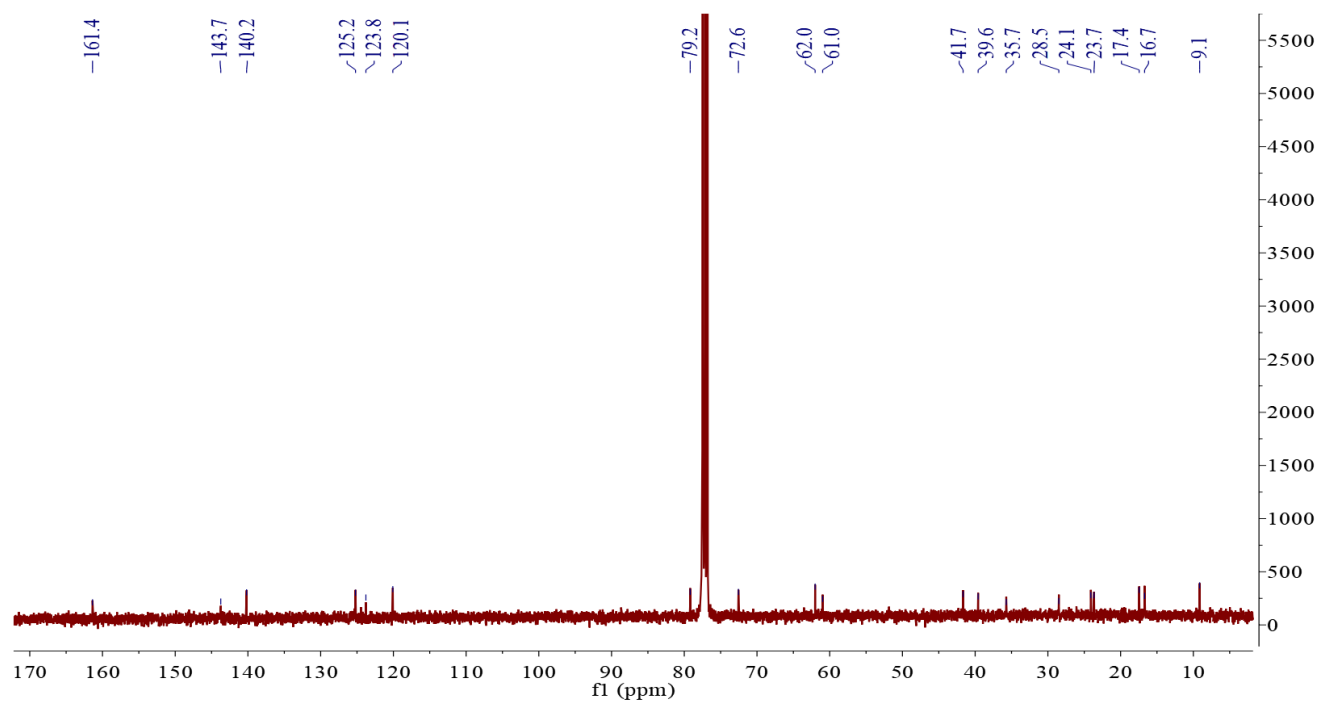


Figure S13. ^1H - ^1H COSY spectrum of **3** in CDCl_3

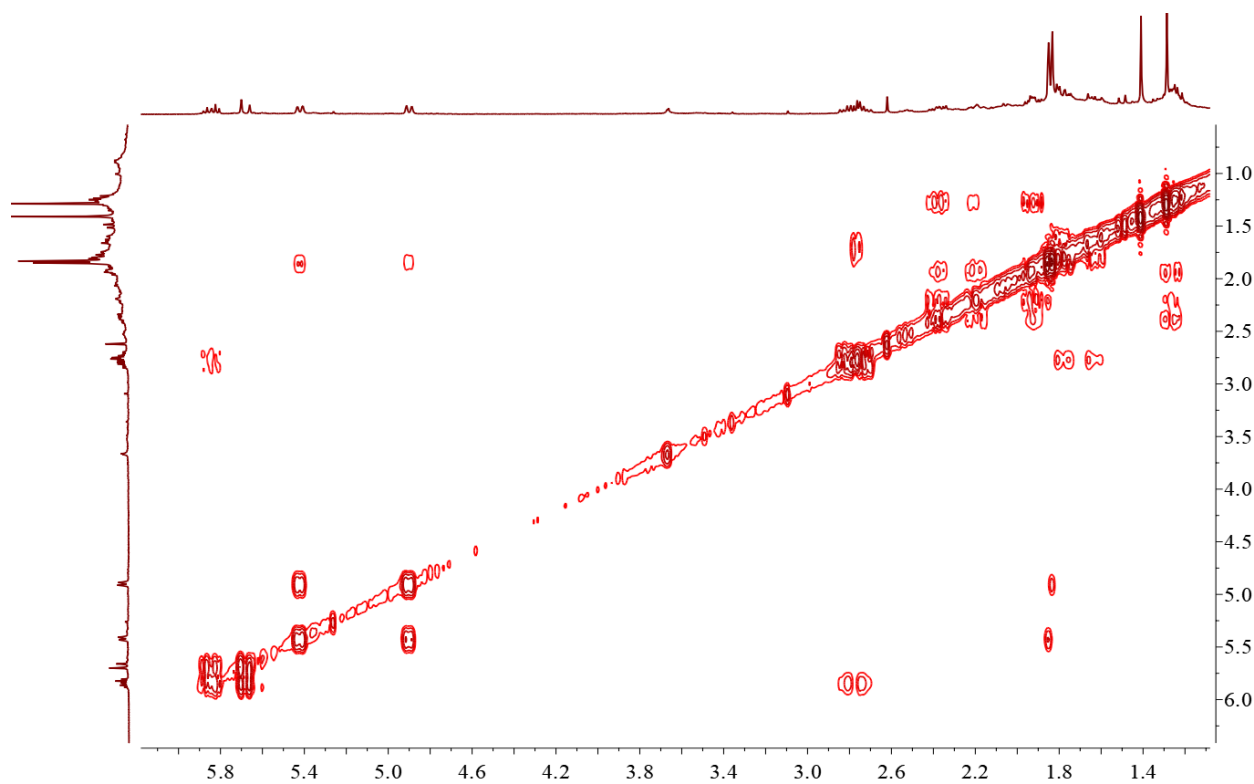


Figure S14. HSQC spectrum of **3** in CDCl₃

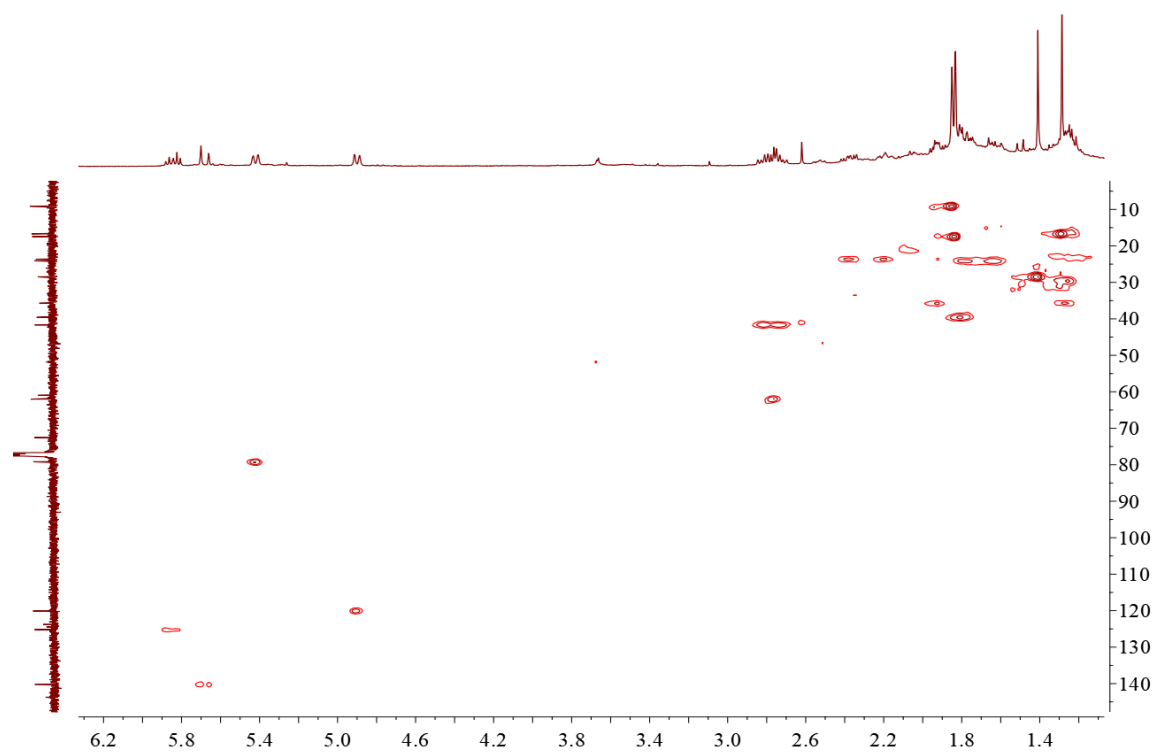


Figure S15. HMBC spectrum of **3** in CDCl₃

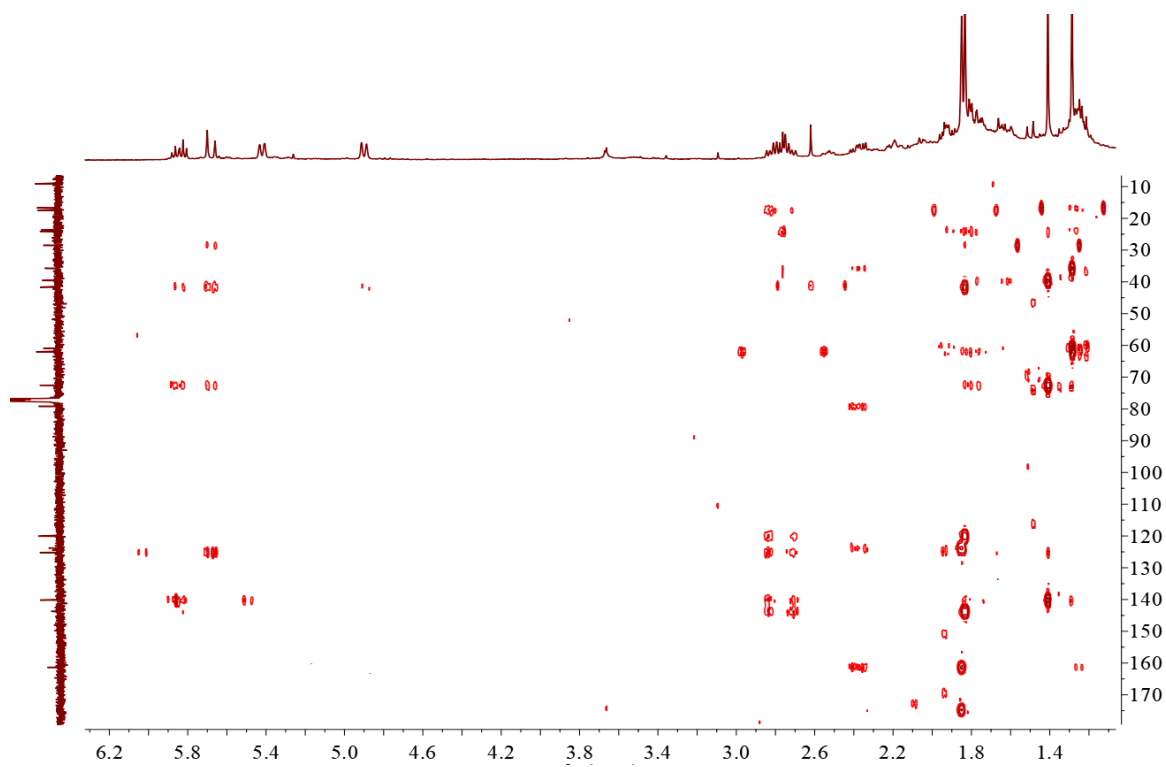


Figure S16. NOESY spectrum of **3** in CDCl₃.

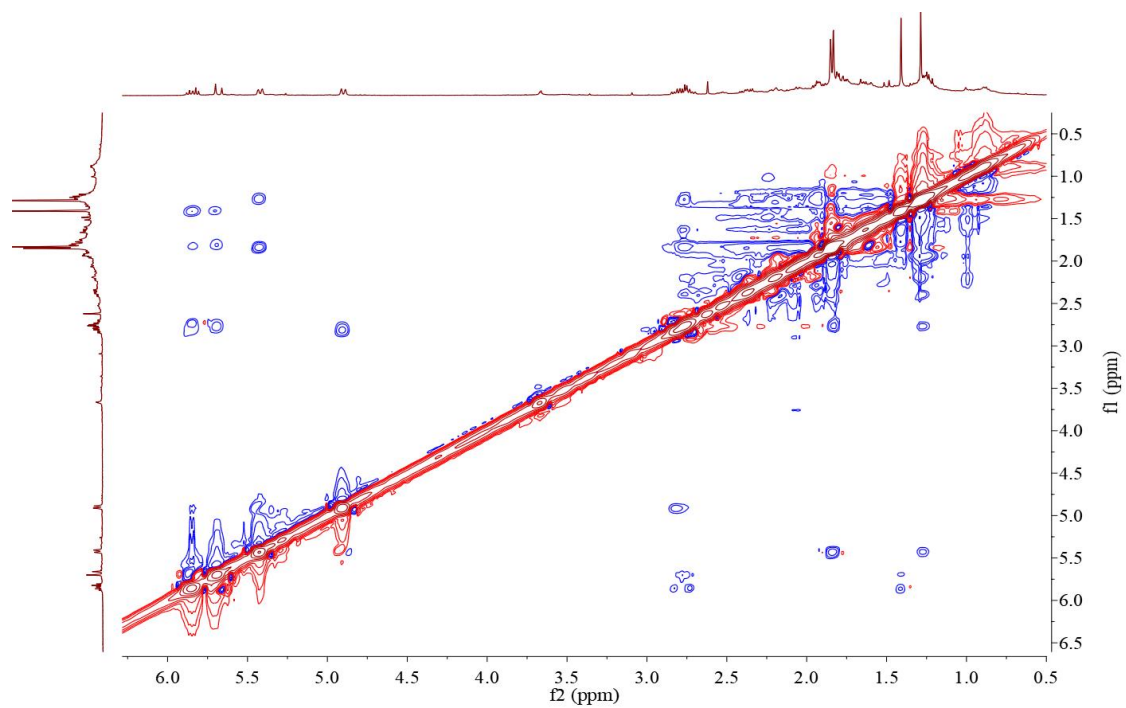


Figure S17. HR-ESIMS of **10**

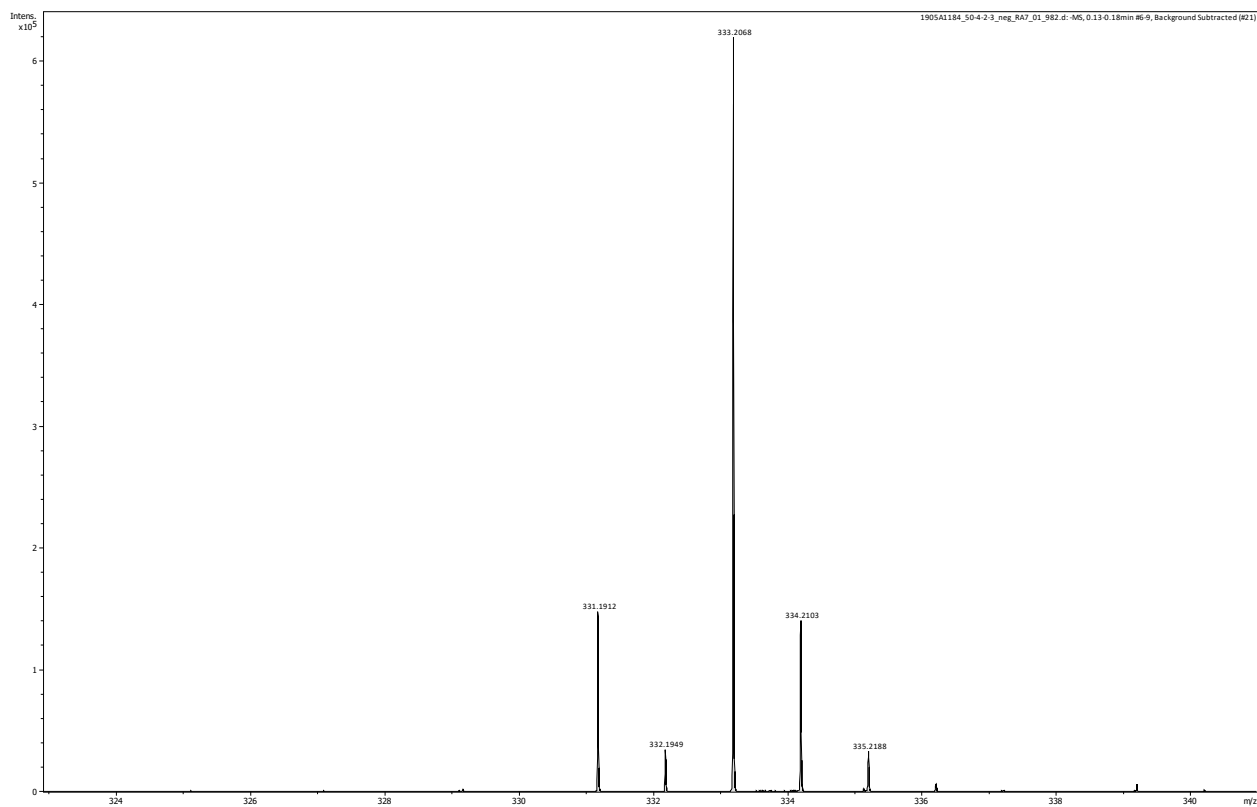


Figure S18. IR spectrum of **10**

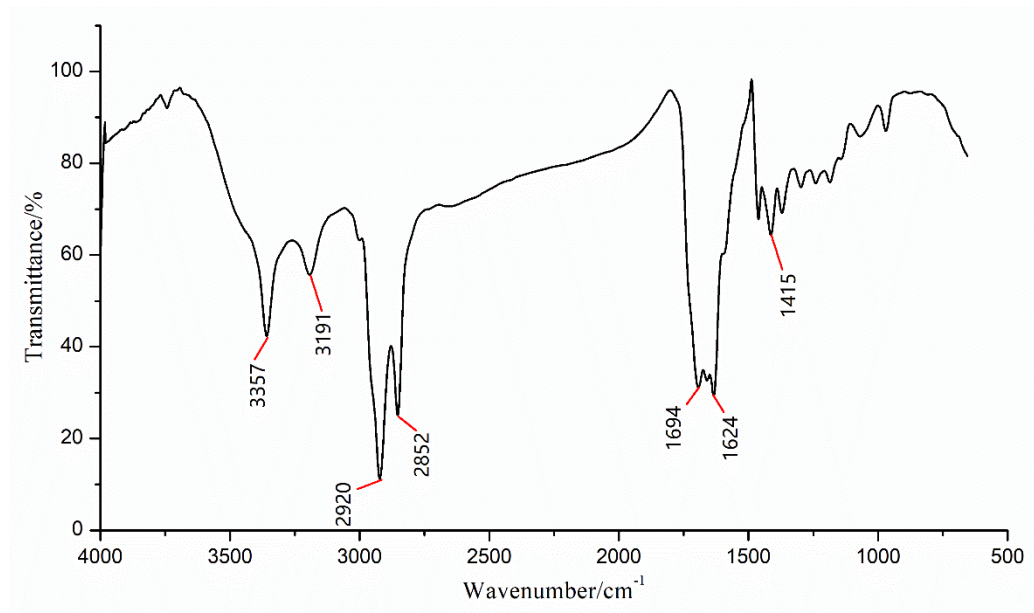


Figure S19. ¹H (400 MHz) NMR spectrum of **10** in MeOH-*d*₄.

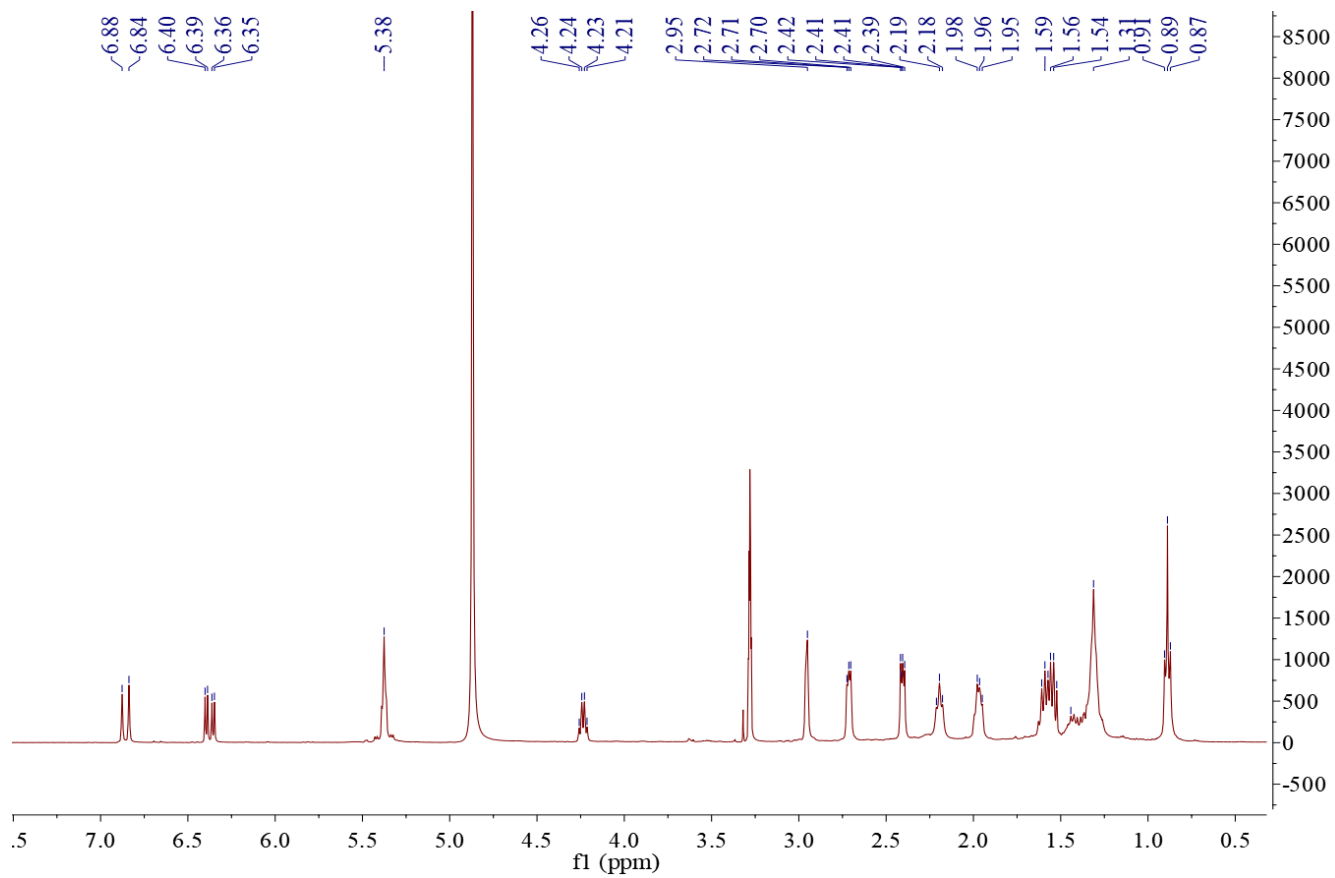


Figure S20. ^{13}C NMR spectrum of **10** in $\text{MeOH-}d_4$.

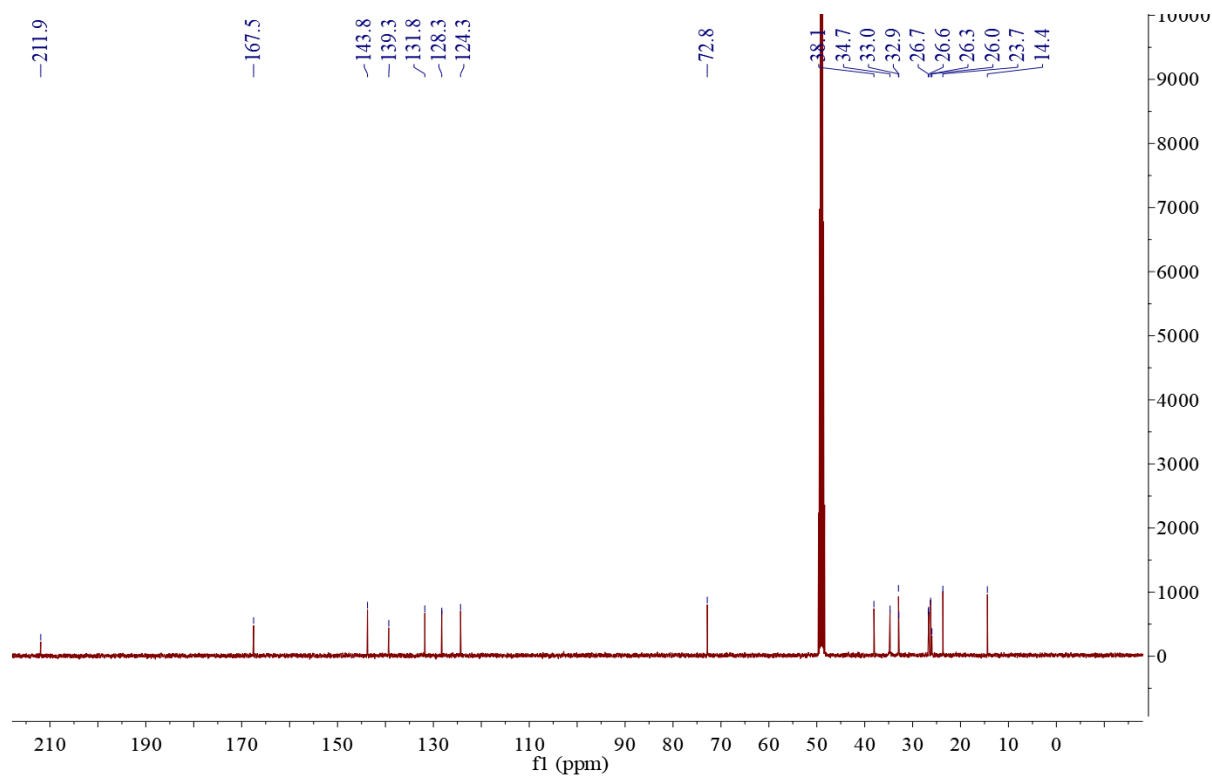


Figure S21. $^1\text{H-}^1\text{H}$ COSY spectrum of **10** in $\text{MeOH-}d_4$.

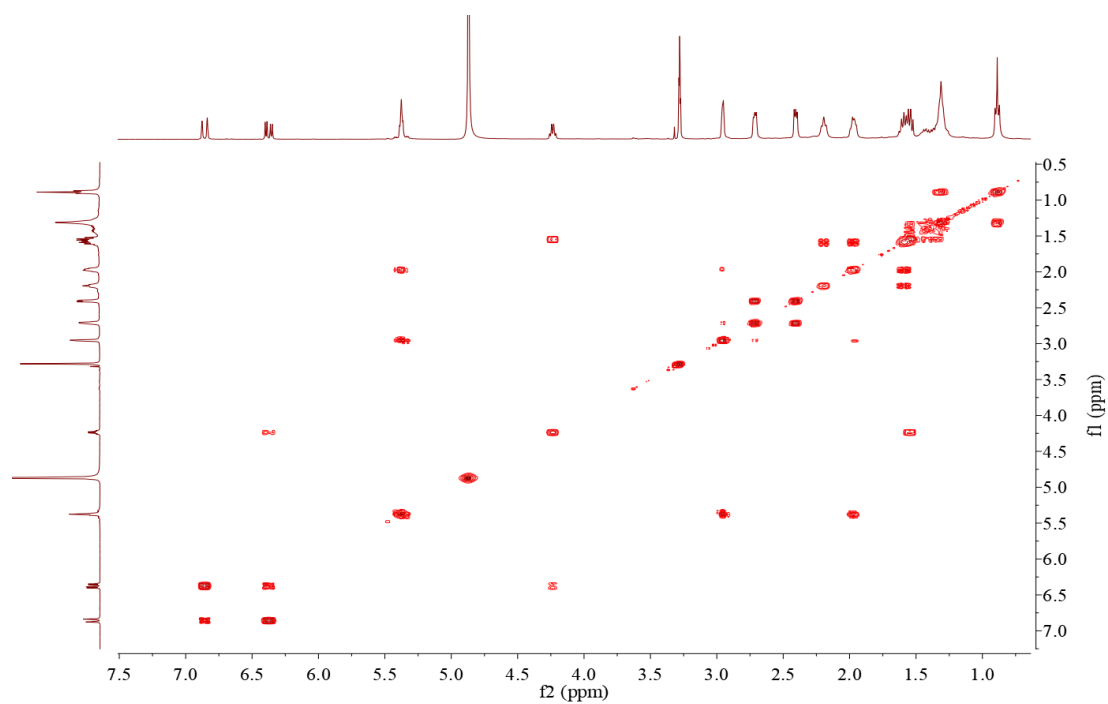


Figure S22. HSQC spectrum of **10** in MeOH-*d*₄.

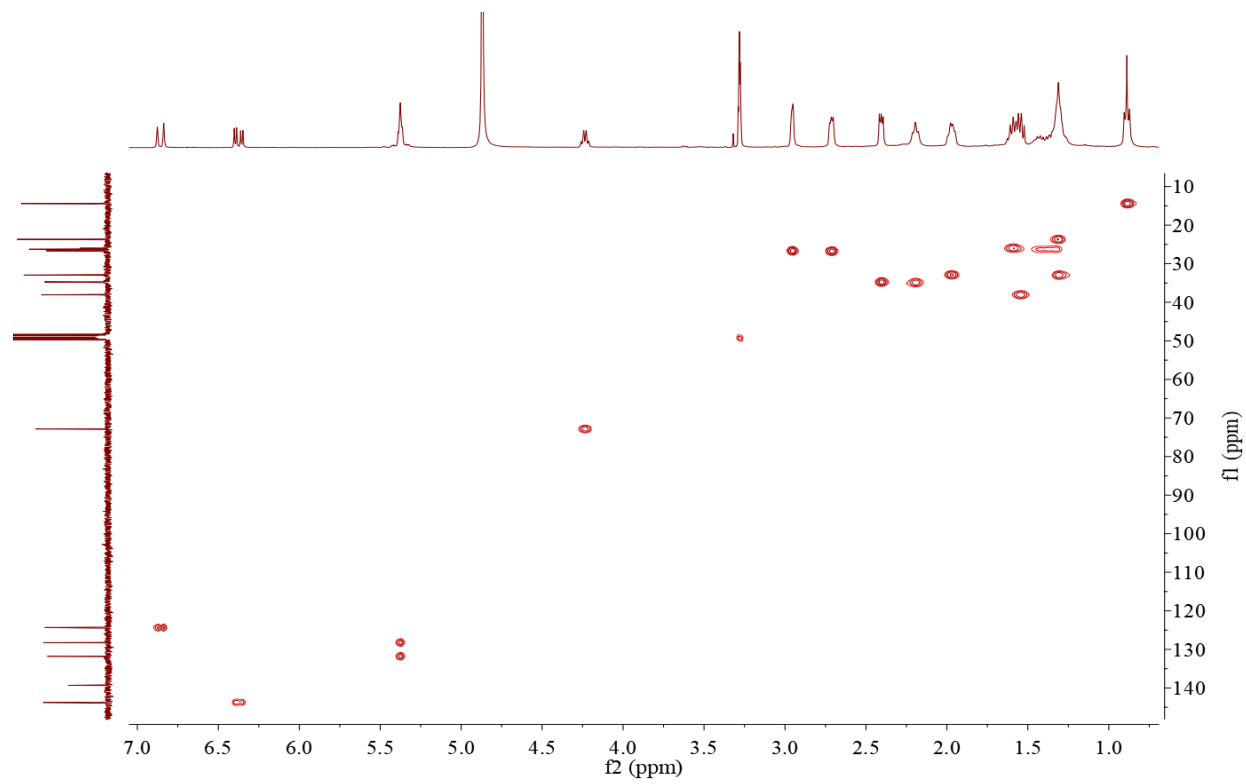


Figure S23. HMBC spectrum of **10** in MeOH-*d*₄

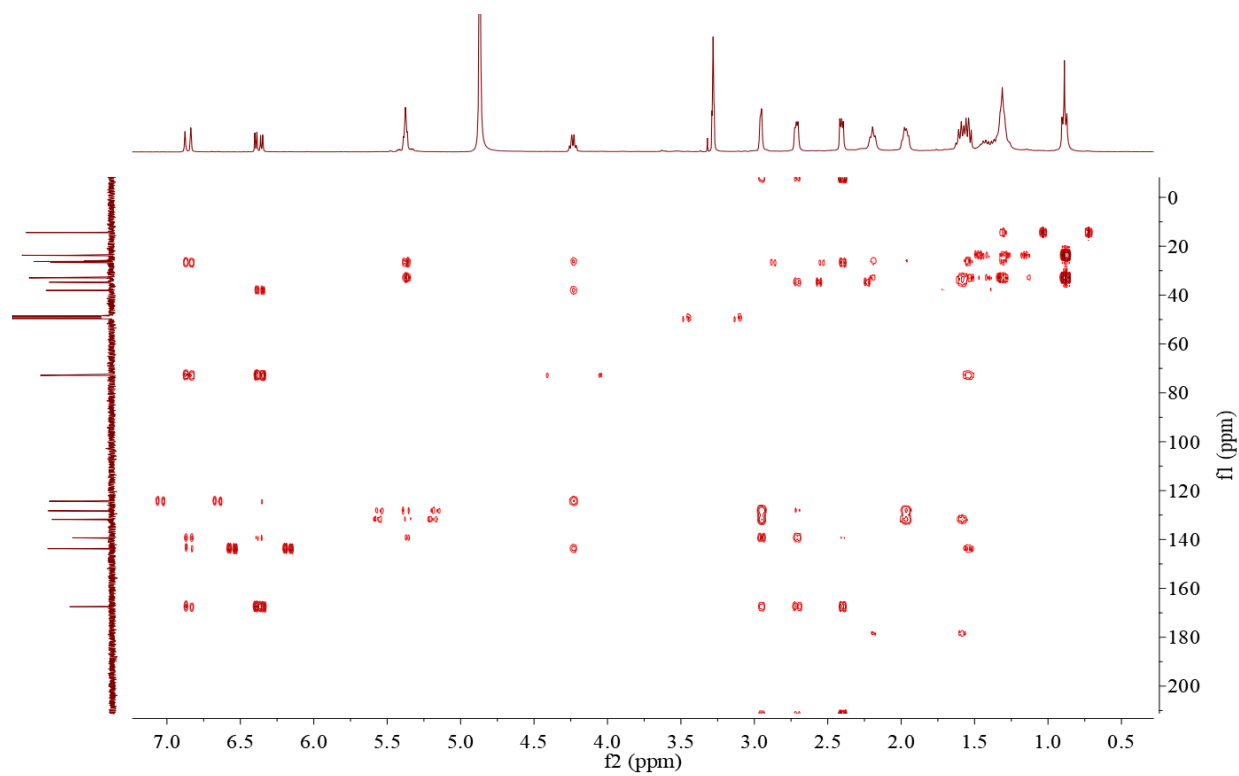


Figure S24. NOESY spectrum of **10** in MeOH-*d*₄

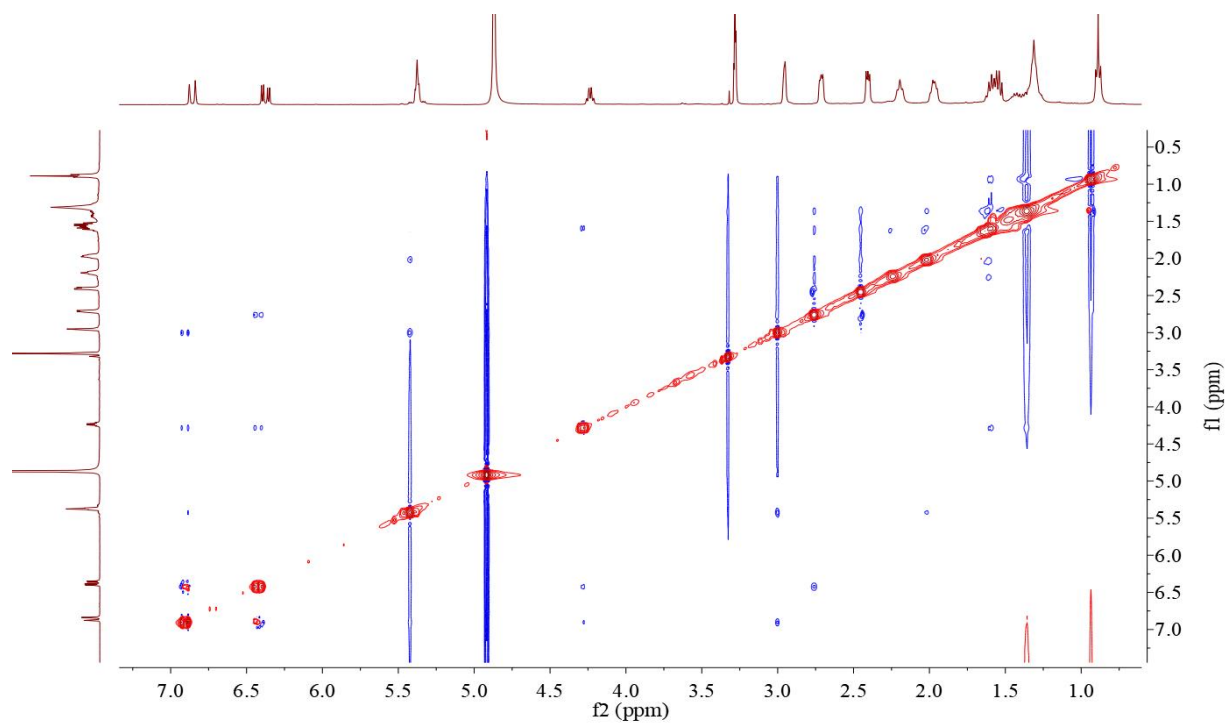


Figure S25. HR-ESIMS of **11**

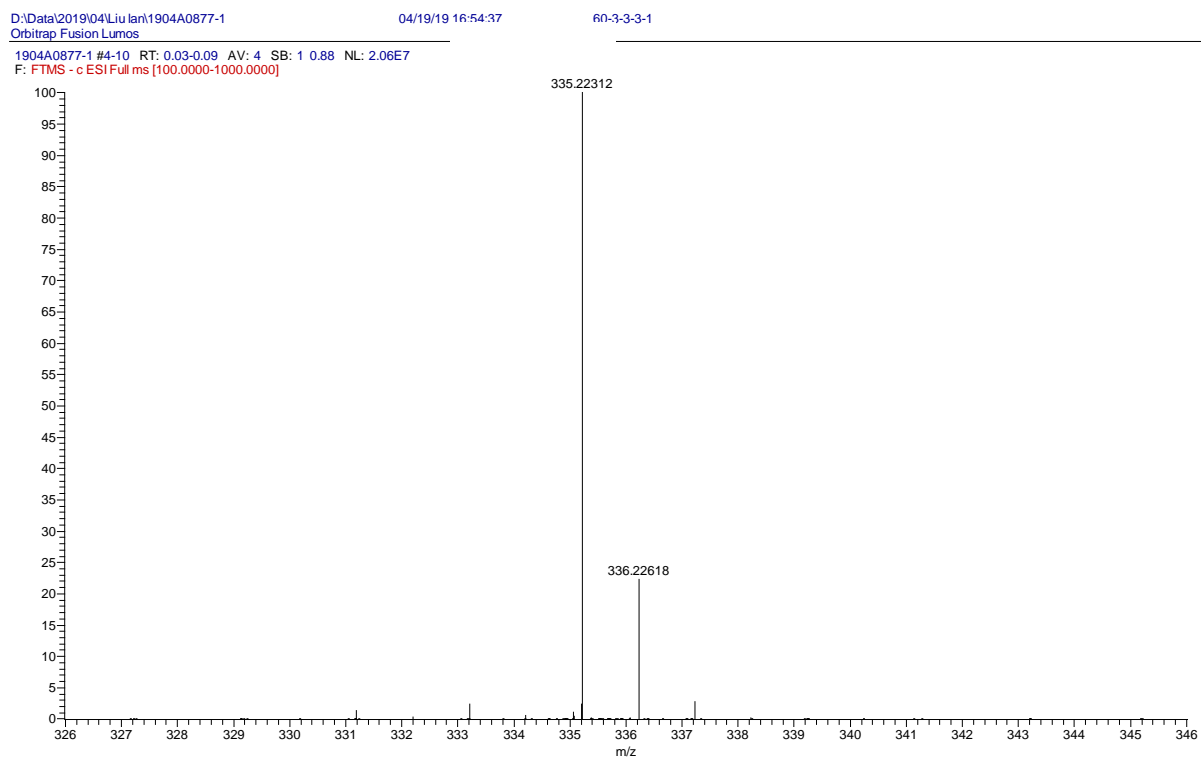


Figure S26. IR spectrum of **11**

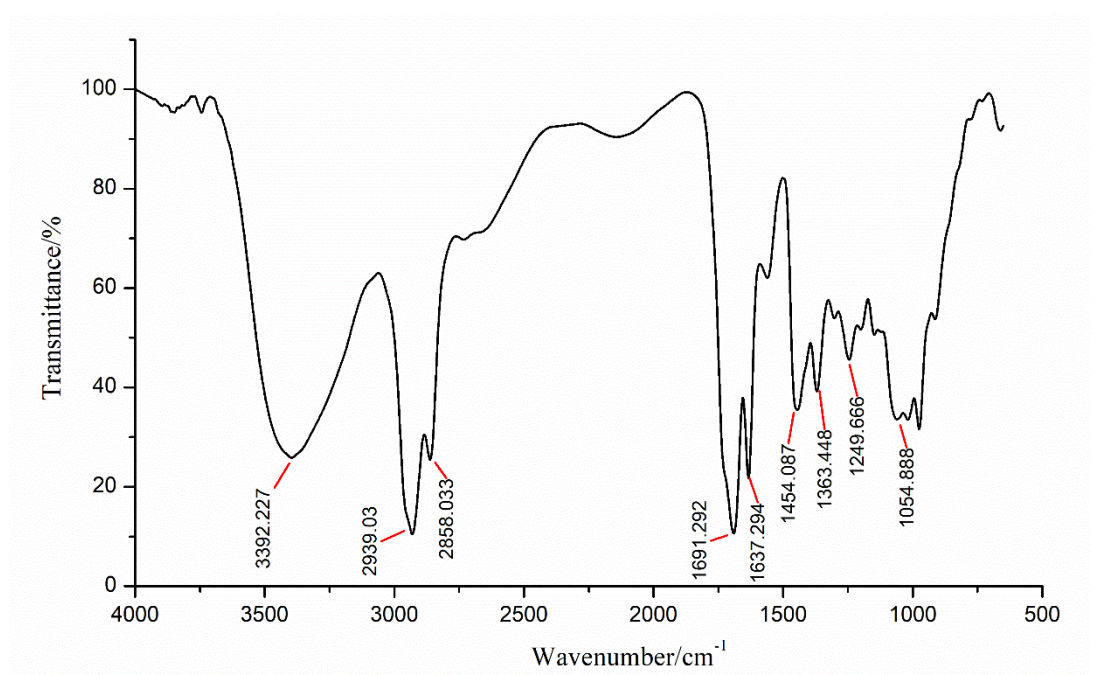


Figure S27. ^1H (400 MHz) NMR spectrum of **11** in $\text{MeOH-}d_4$

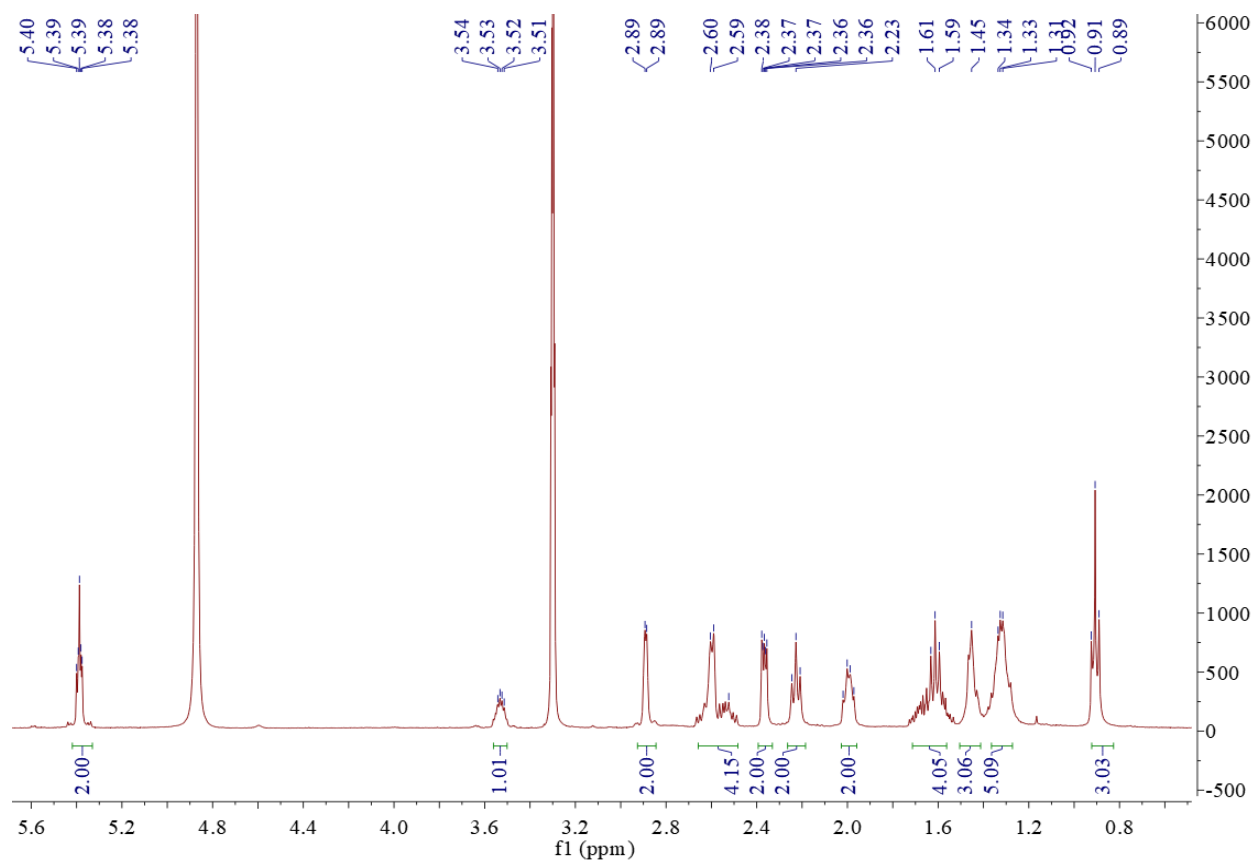


Figure S28. ^{13}C NMR spectrum of **11** in $\text{MeOH-}d_4$

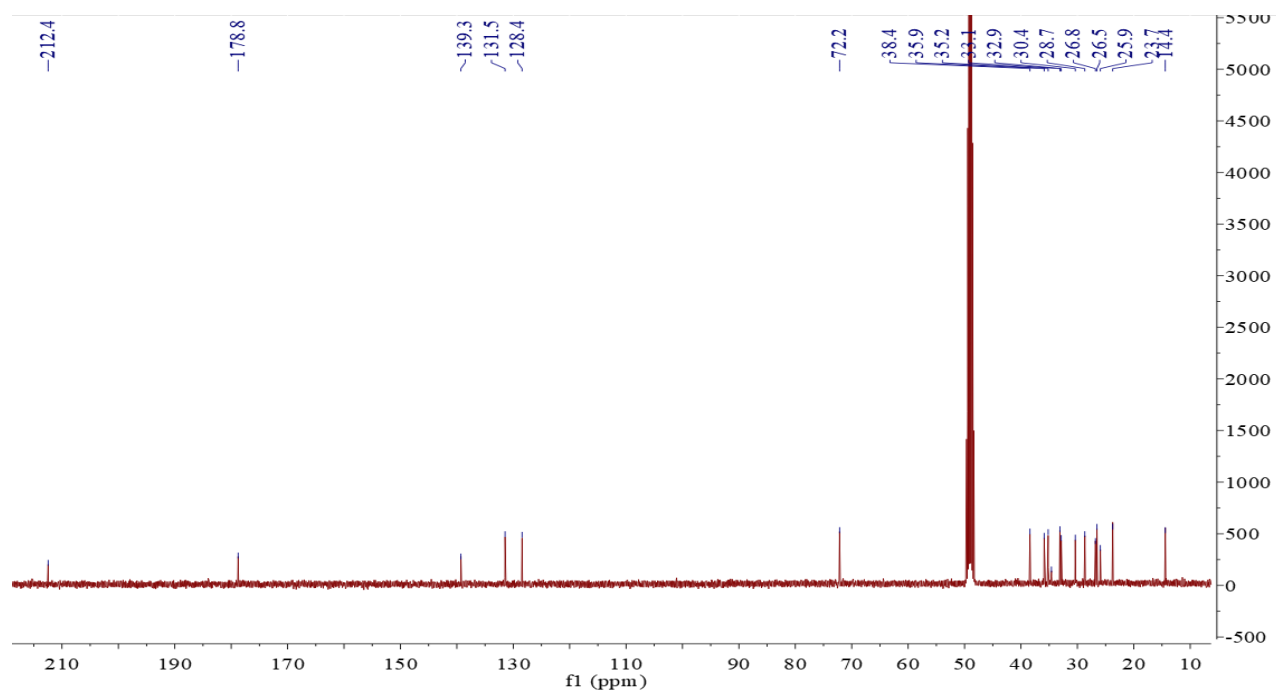


Figure S29. ^1H - ^1H COSY spectrum of **11** in $\text{MeOH-}d_4$.

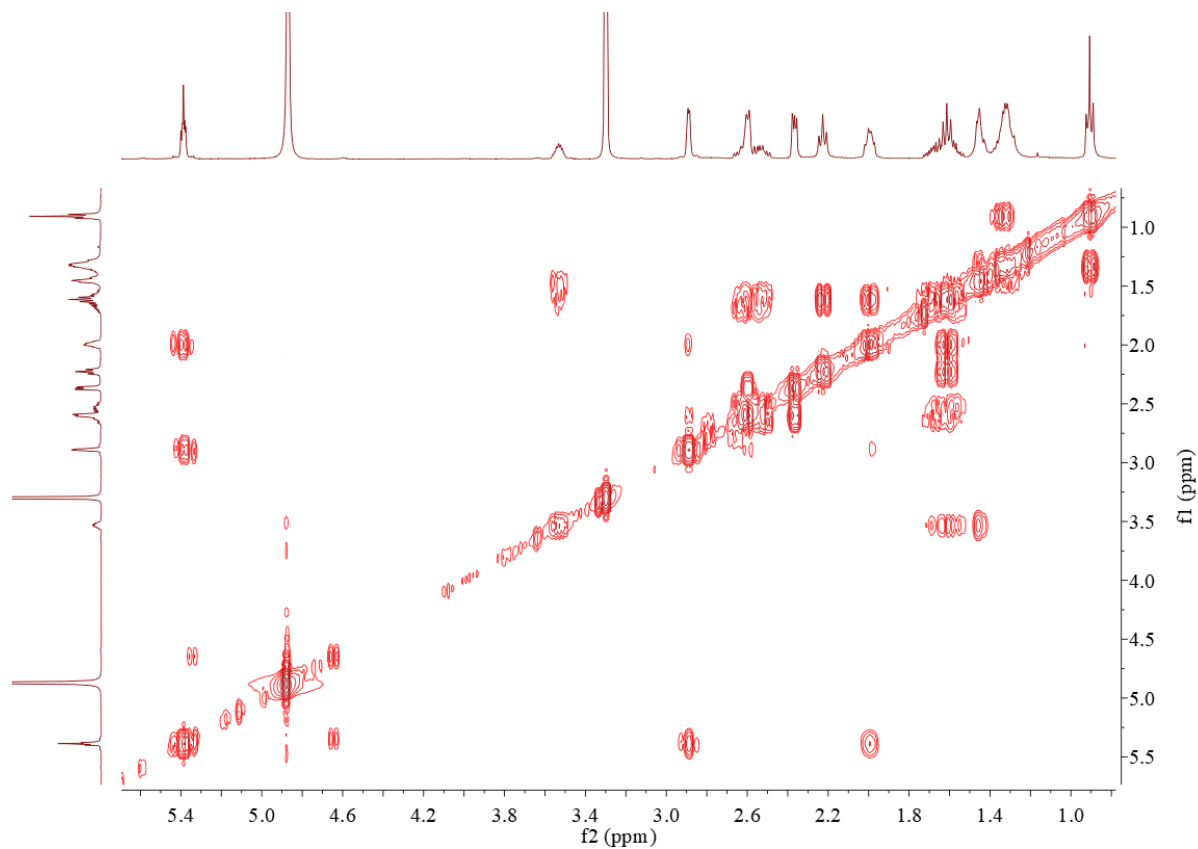


Figure S30. HSQC spectrum of **11** in $\text{MeOH-}d_4$.

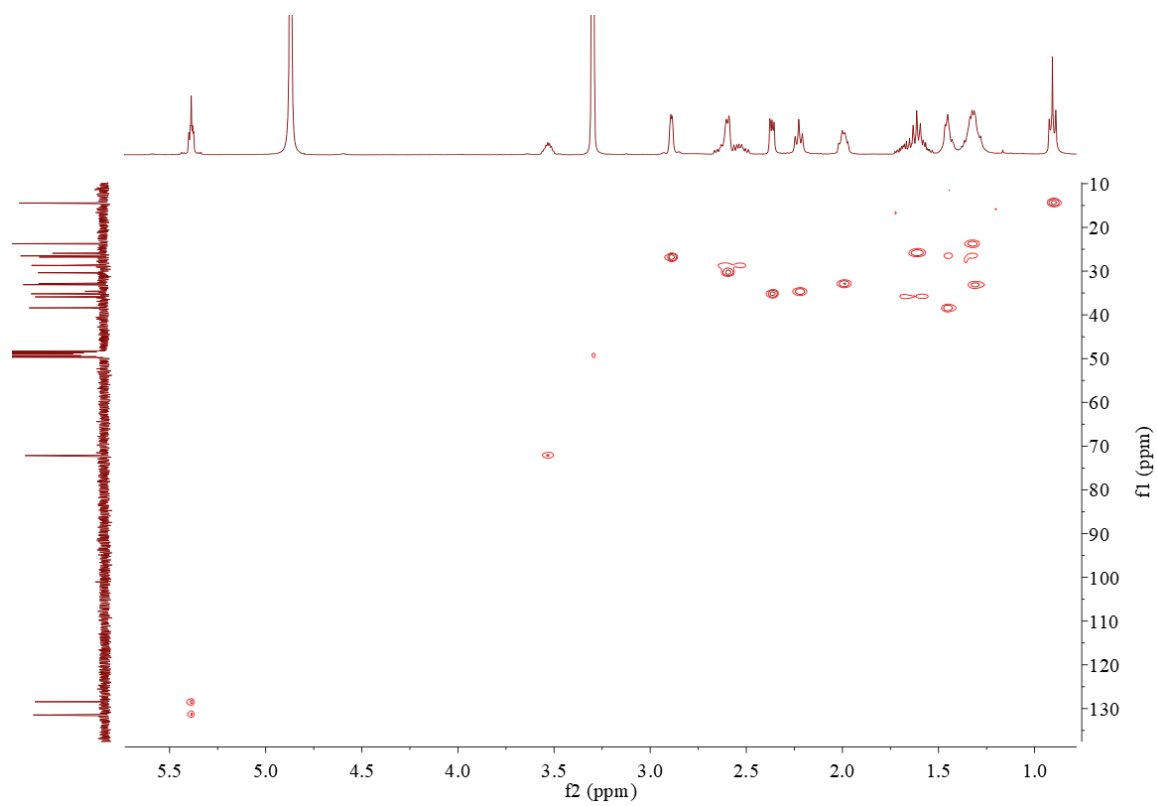


Figure S31. HMBC spectrum of **11** in MeOH-*d*₄

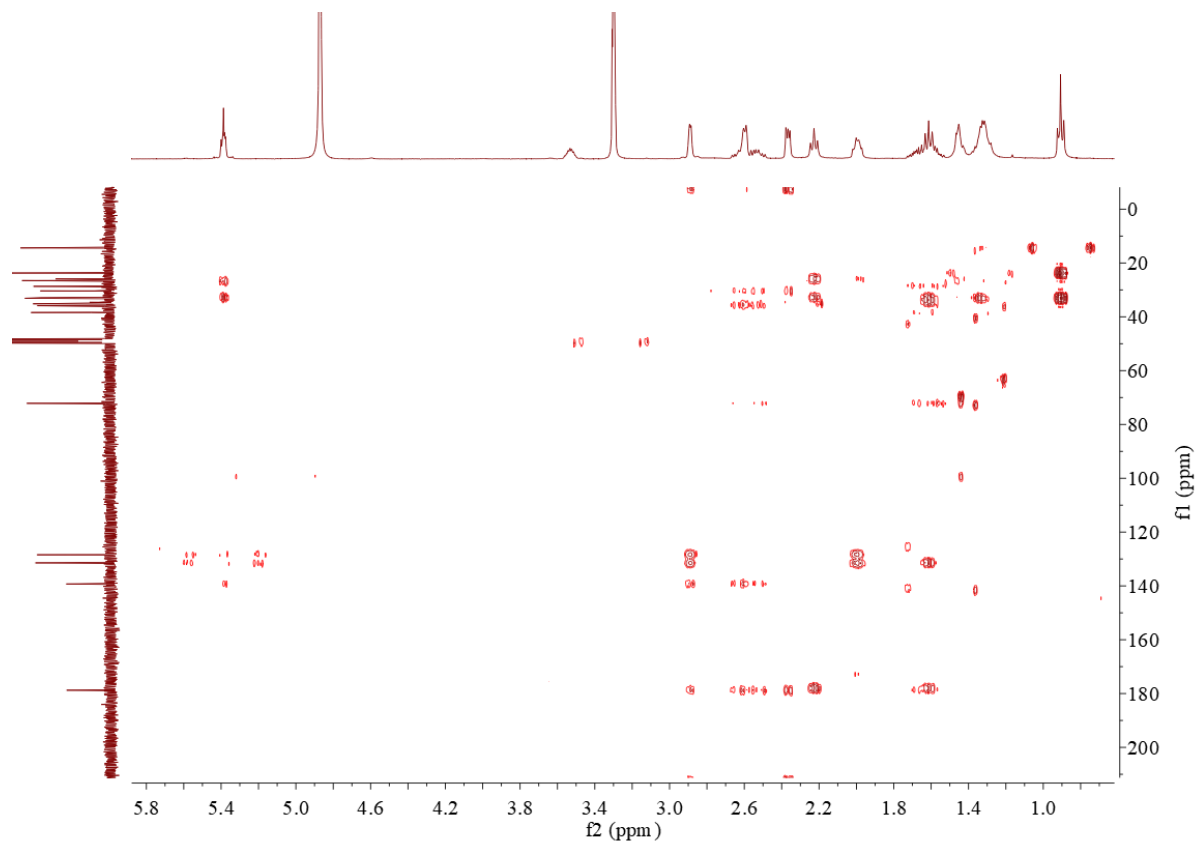


Figure S32. HR-ESIMS of **12**

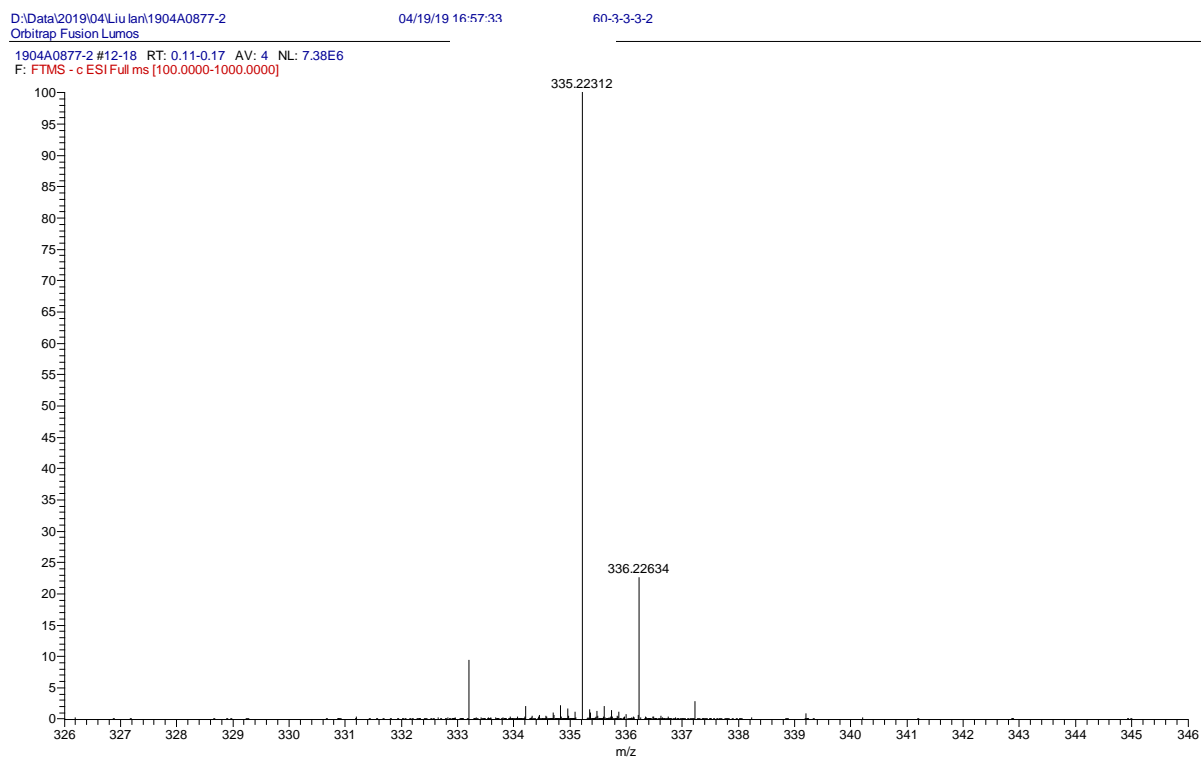


Figure S33. IR spectrum of **12**

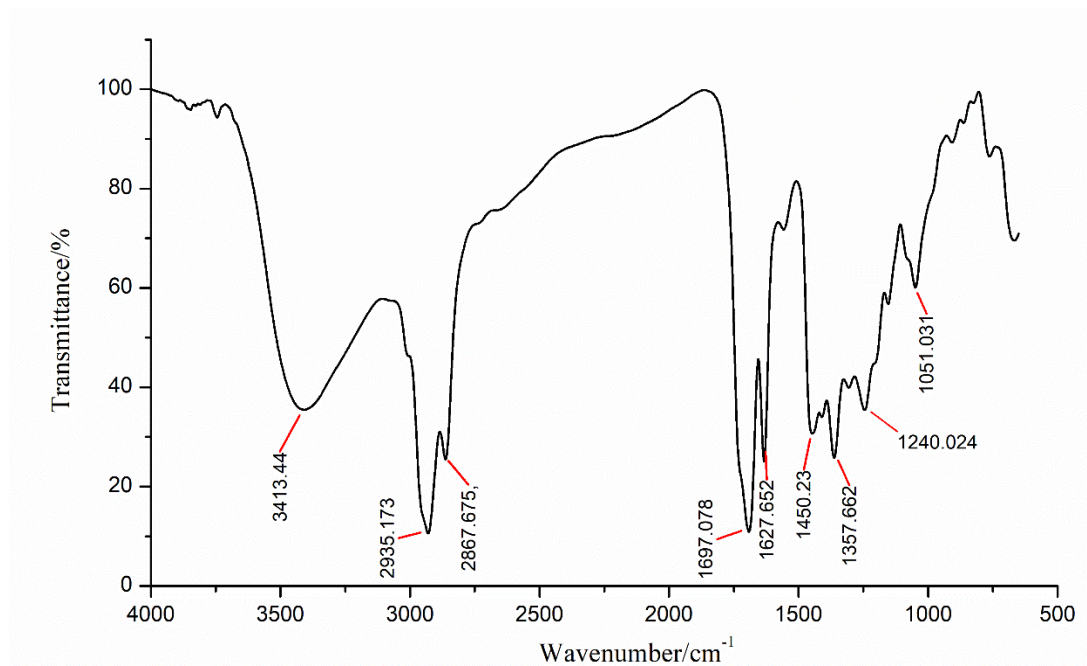


Figure S34. ^1H (400 MHz) NMR spectrum of **12** in $\text{MeOH-}d_4$

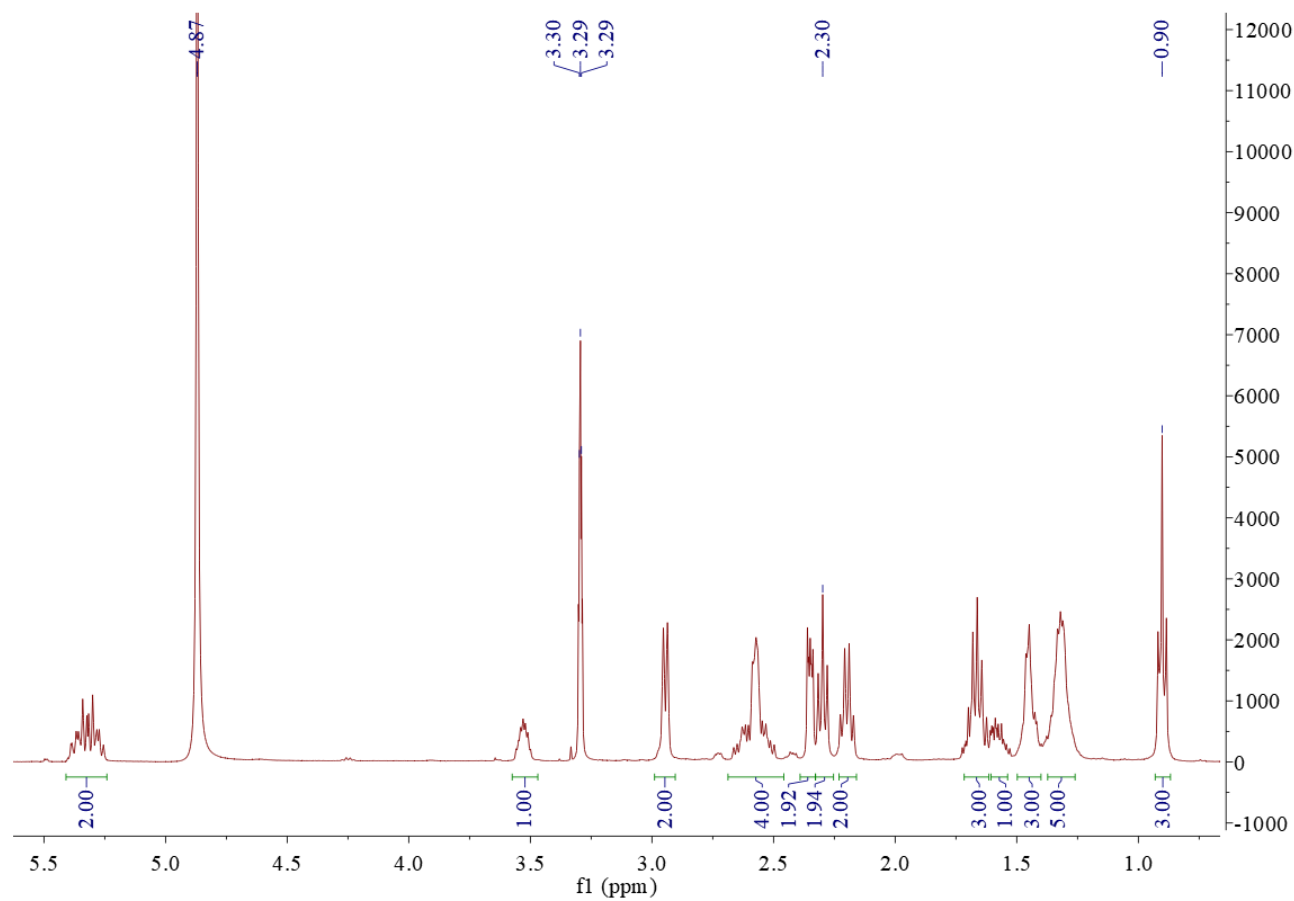


Figure S35. ^{13}C NMR spectrum of **11** in $\text{MeOH-}d_4$

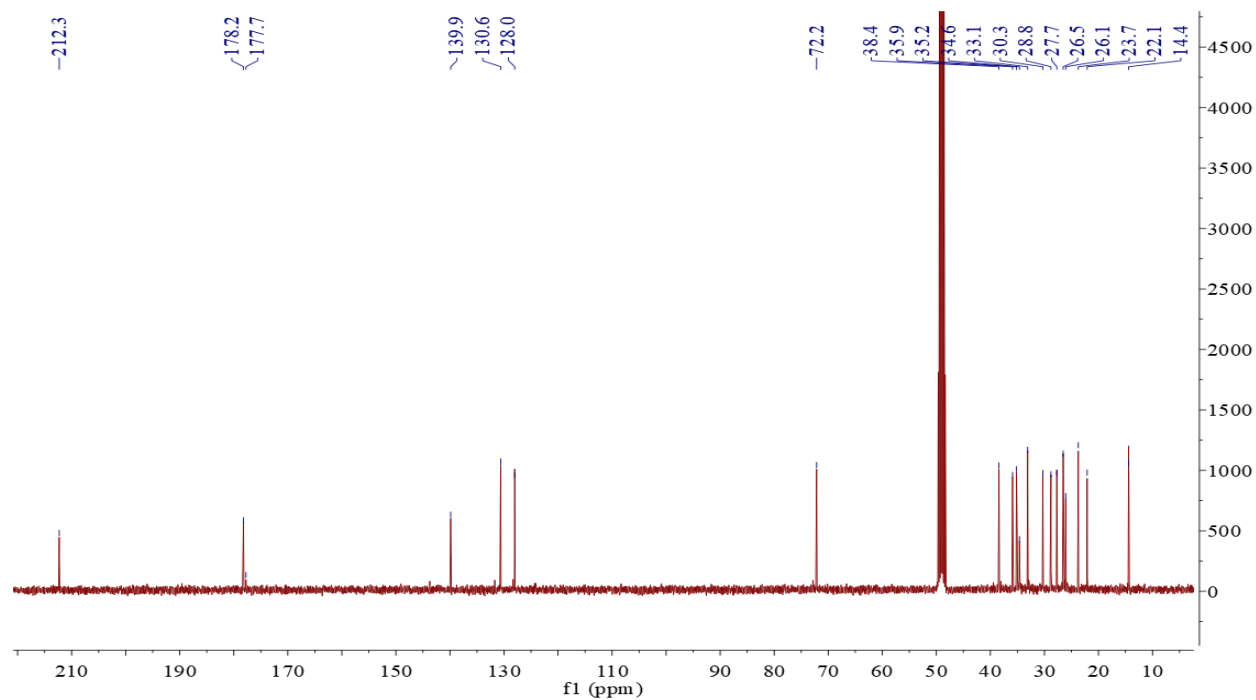


Figure S36. ^1H - ^1H COSY spectrum of **12** in $\text{MeOH-}d_4$

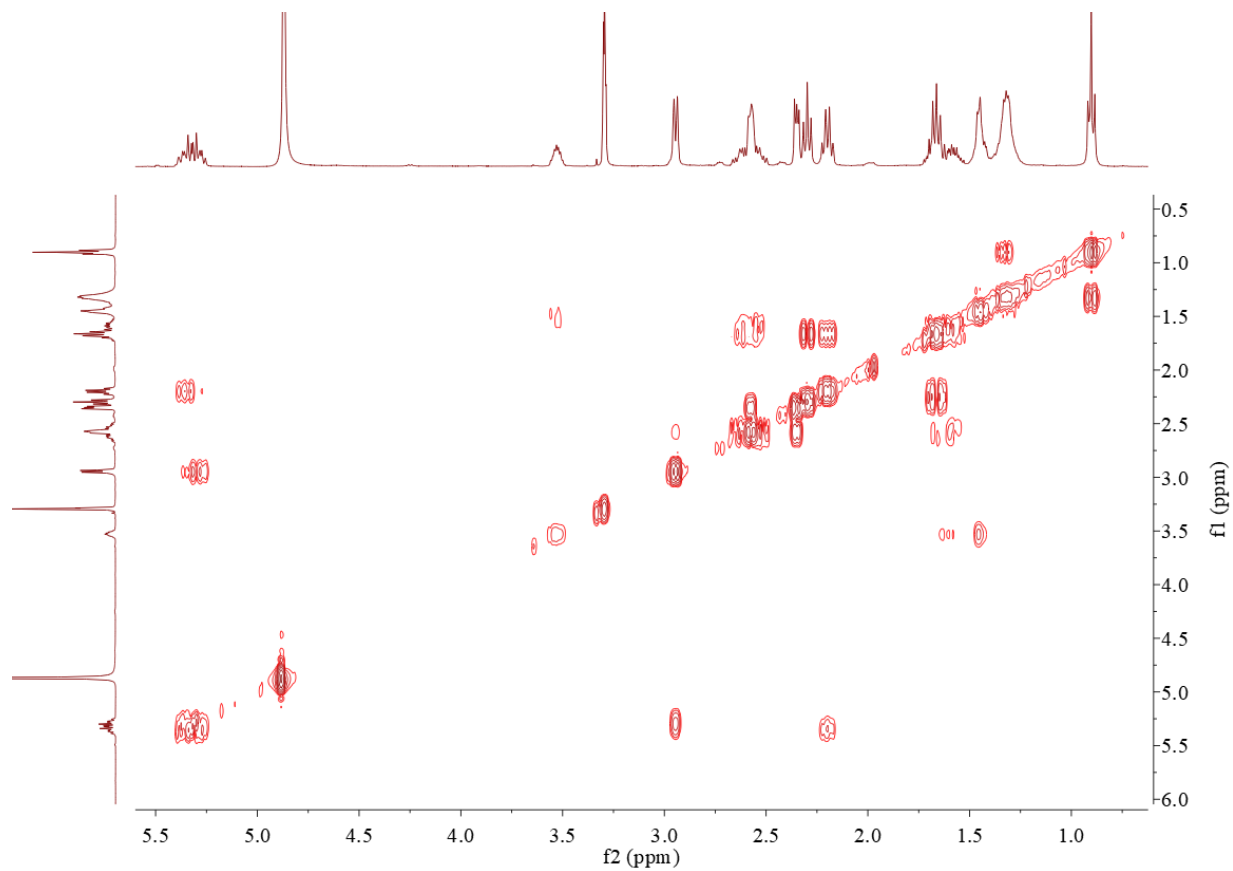


Figure S37. HSQC spectrum of **12** in $\text{MeOH-}d_4$

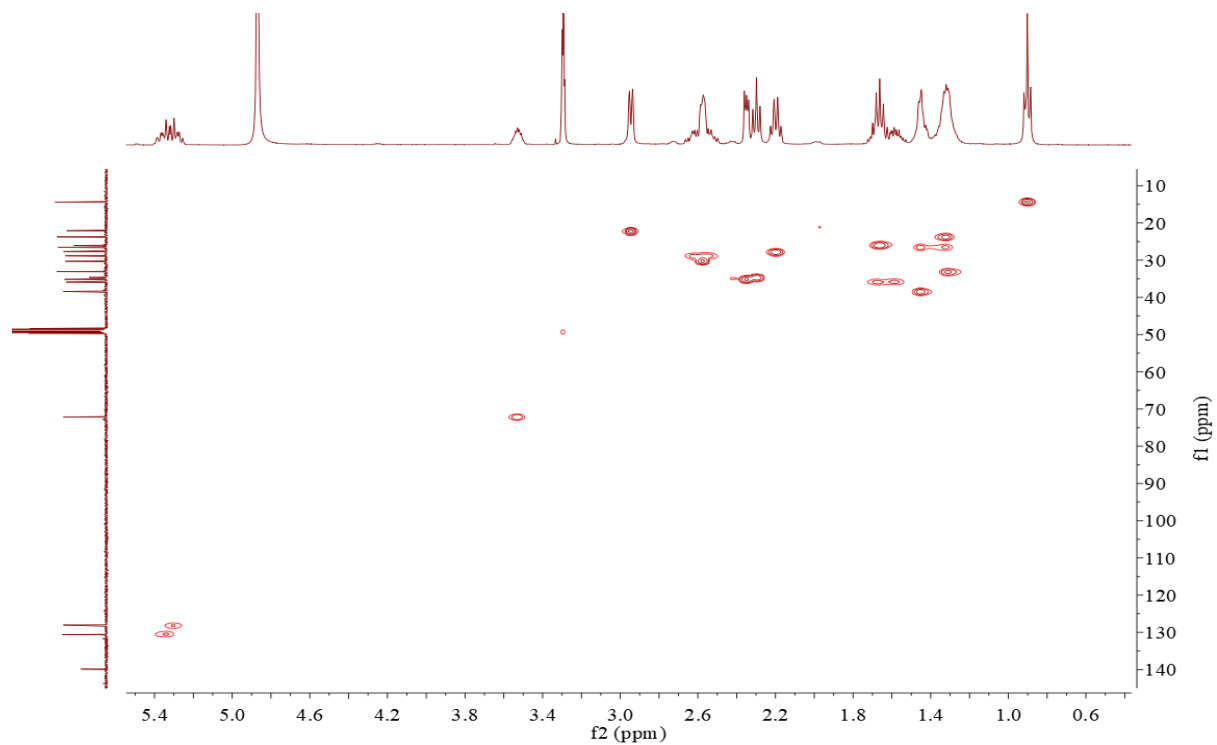


Figure S38. HMBC spectrum of **12** in MeOH-*d*₄

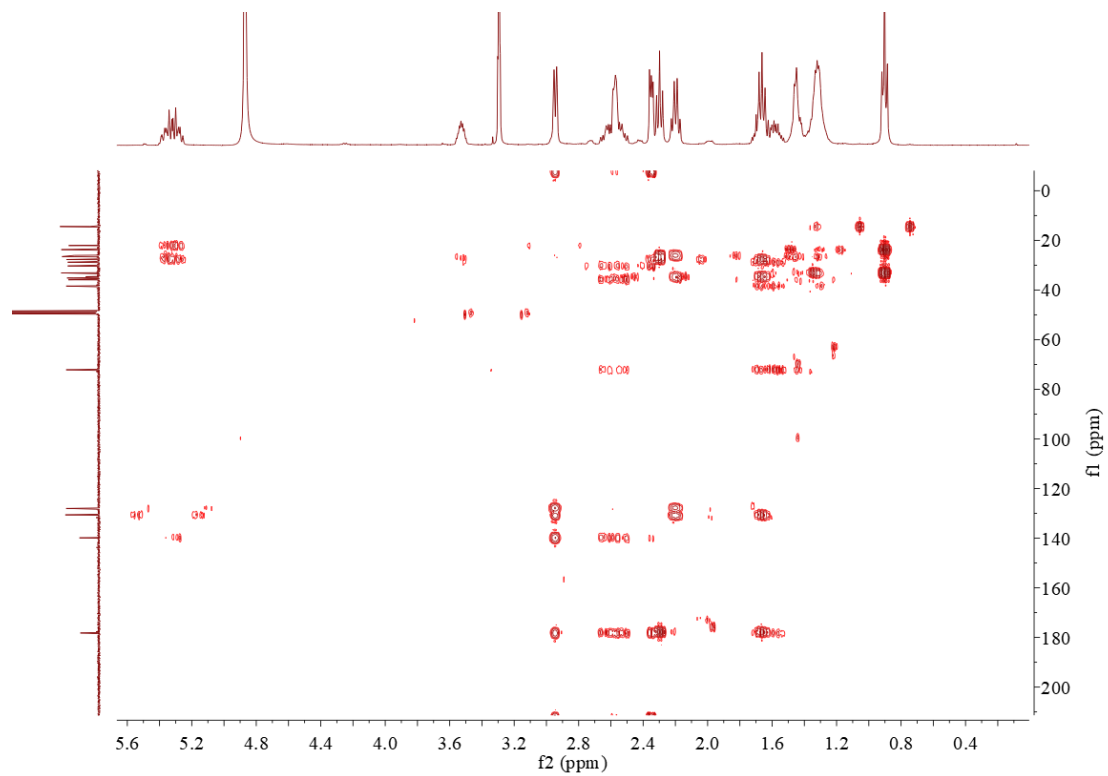


Figure S39. NOESY spectrum of **12** in MeOH-*d*₄

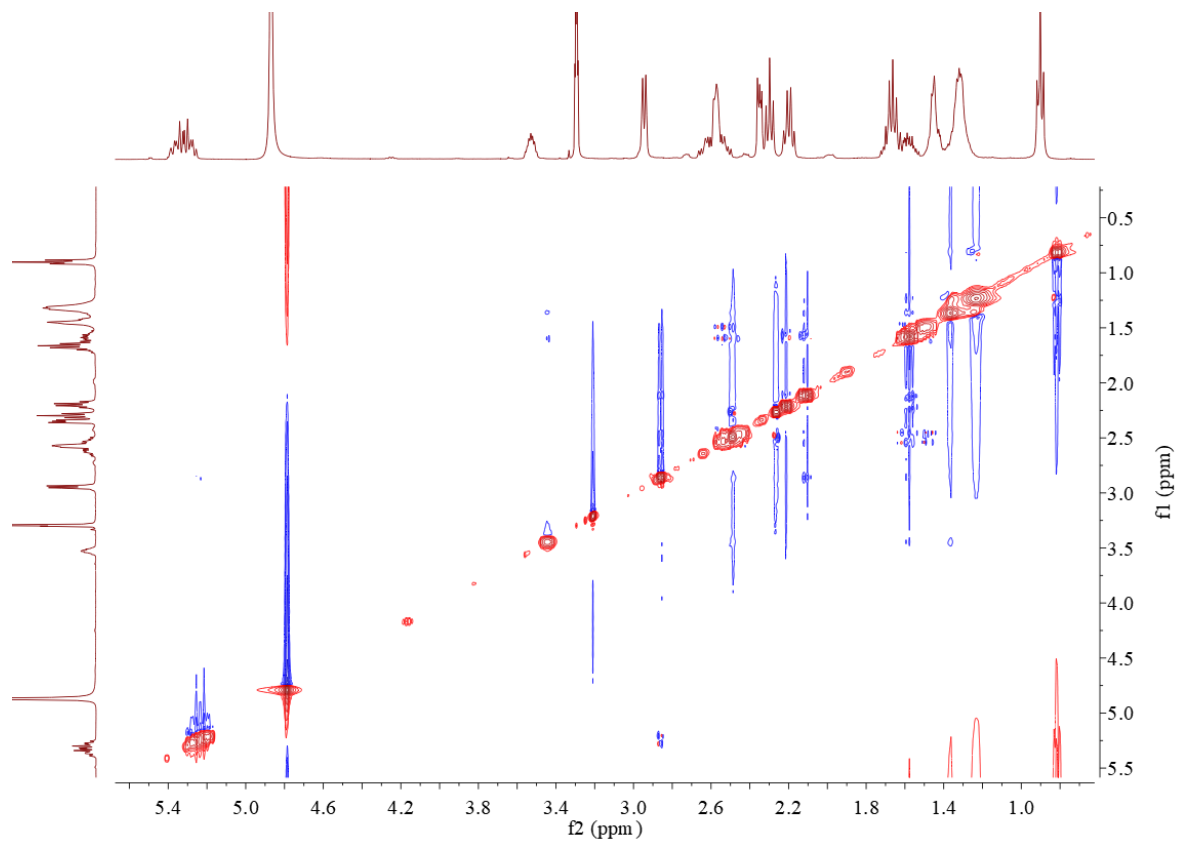


Figure S40. HR-ESIMS of 13

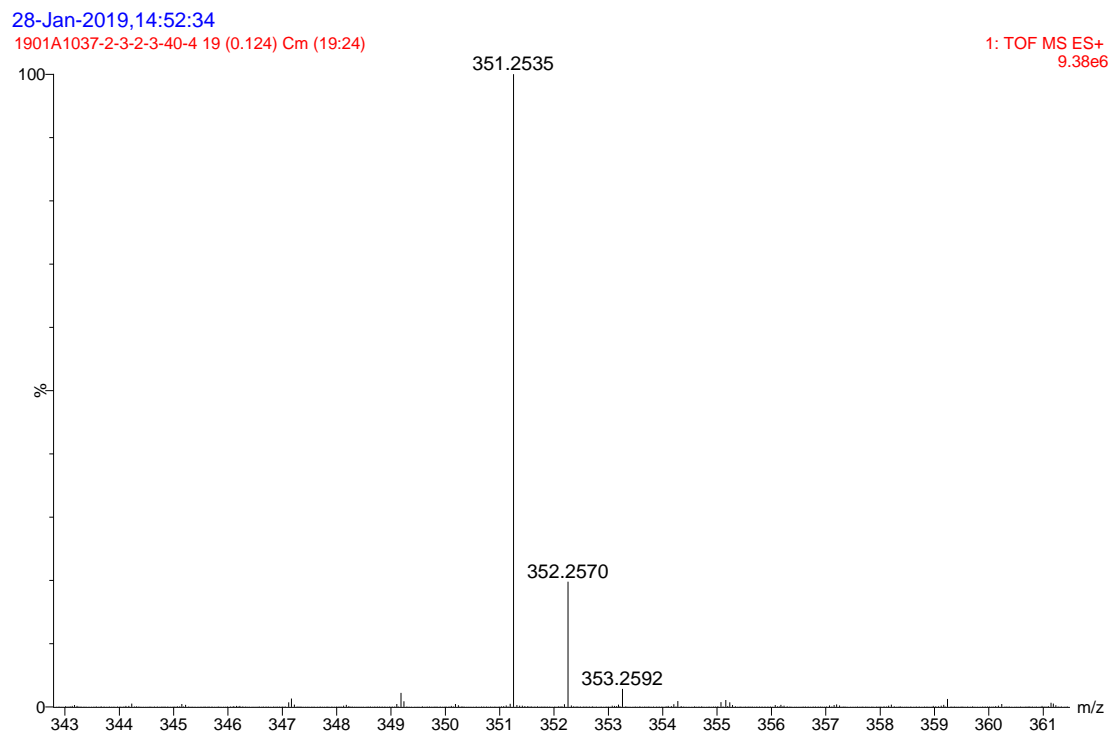


Figure S41. IR spectrum of 13

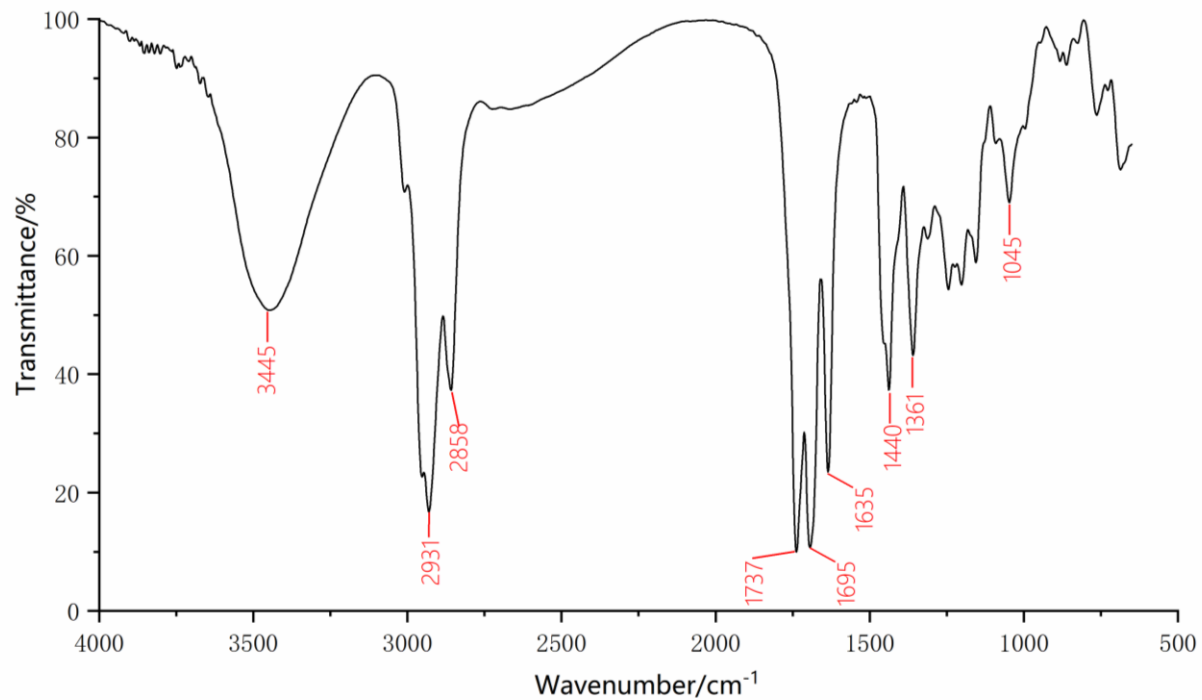


Figure S42. ^1H (400 MHz) NMR spectrum of **13** in acetone- d_6 .

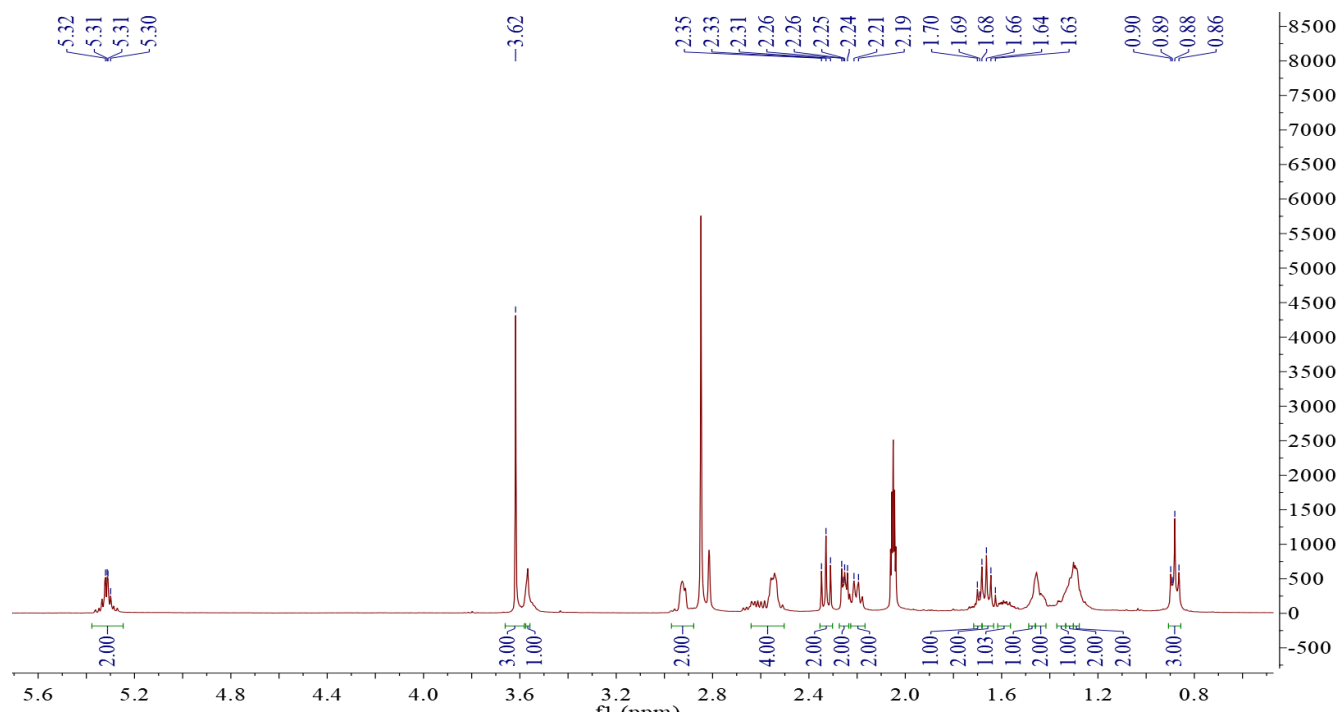


Figure S43. ^{13}C NMR spectrum of **13** in acetone- d_6 .

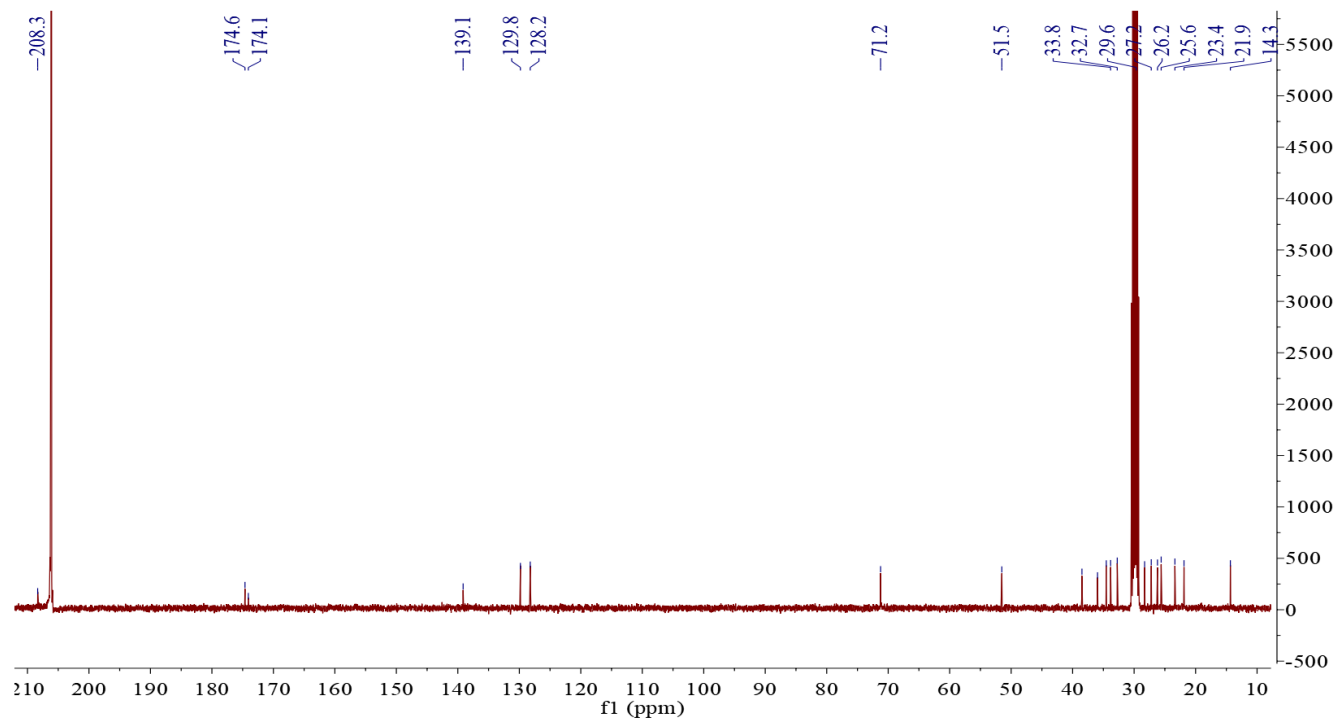


Figure S44. ^1H - ^1H COSY spectrum of **13** in acetone- d_6 .

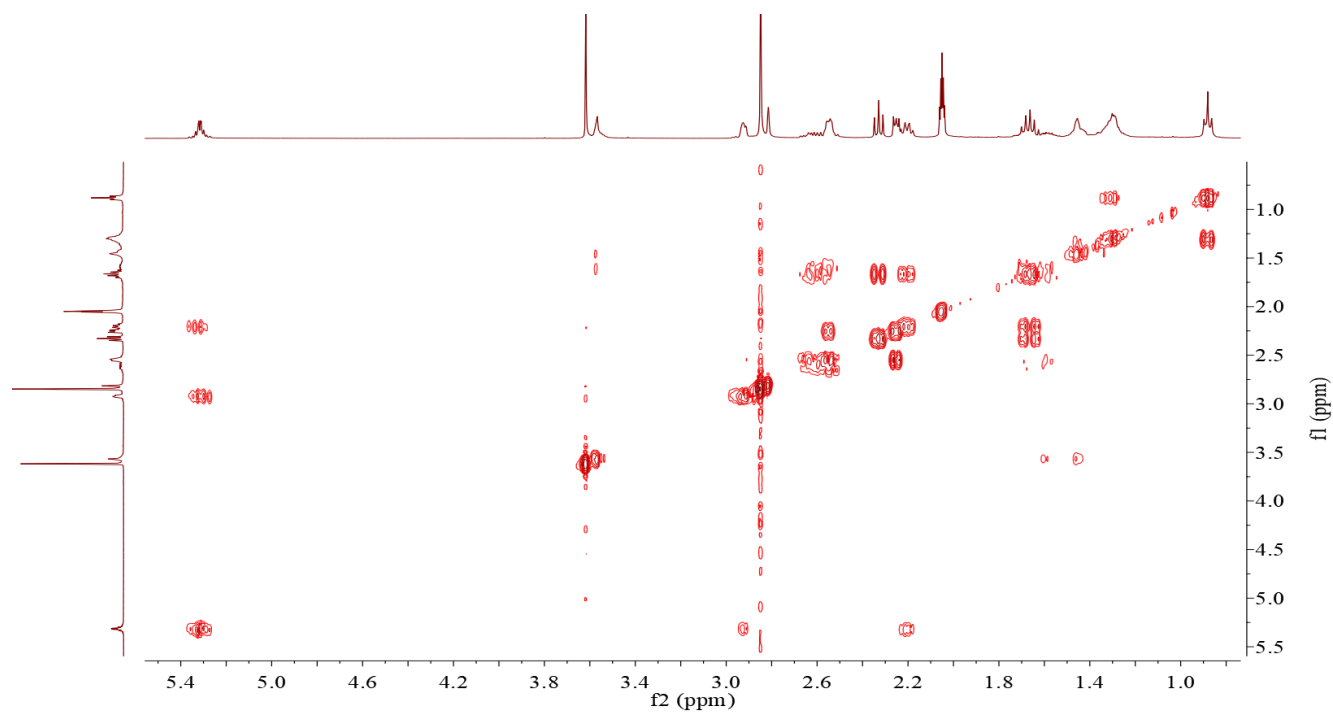


Figure S45. HSQC spectrum of **13** in acetone- d_6 .

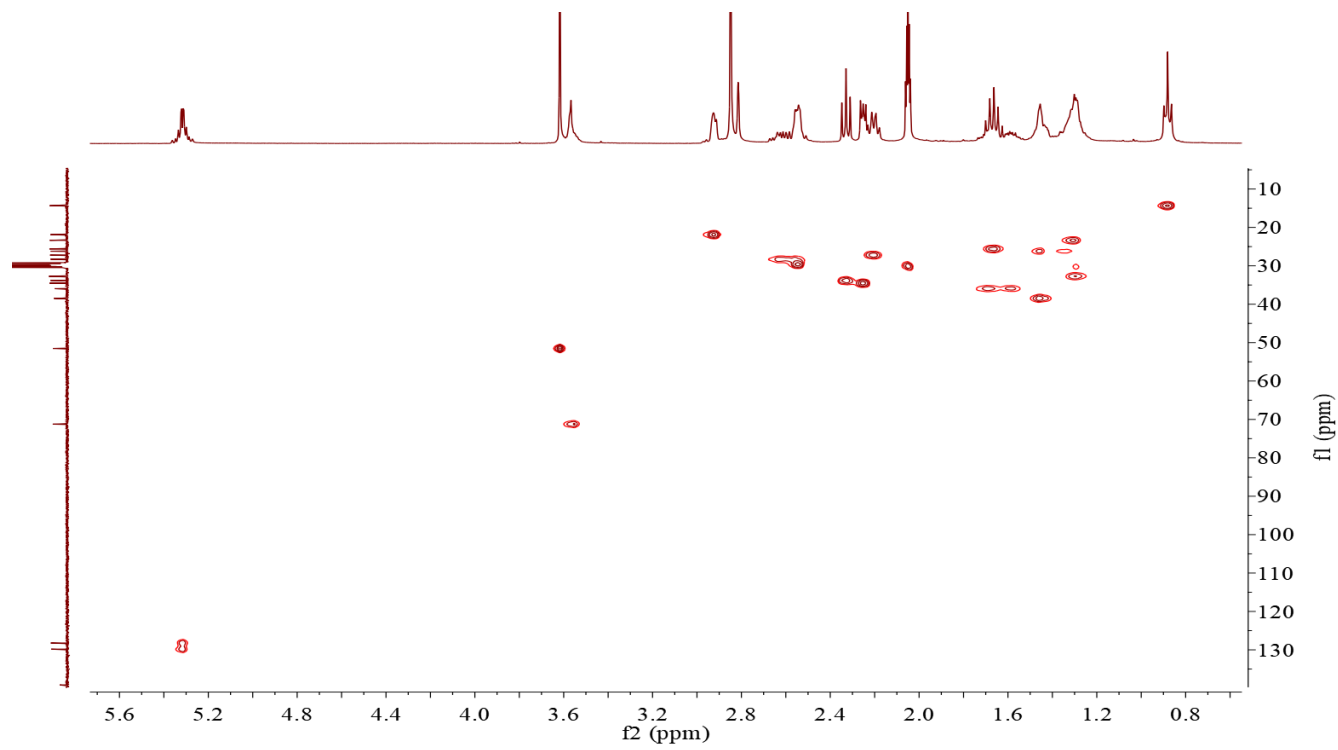


Figure S46. HMBC spectrum of **13** in acetone- d_6

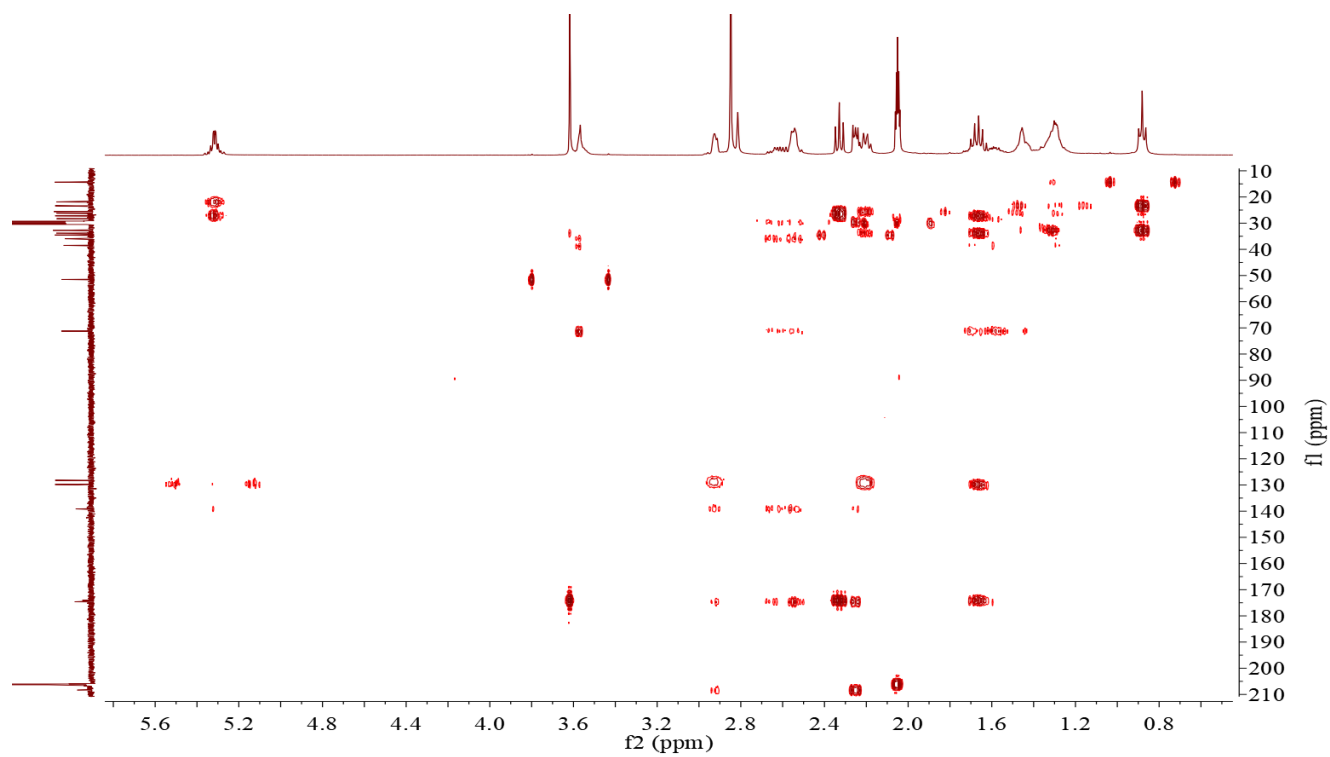


Figure S47. ^1H (400 MHz) NMR spectrum of **10a** in pyridine- d_5

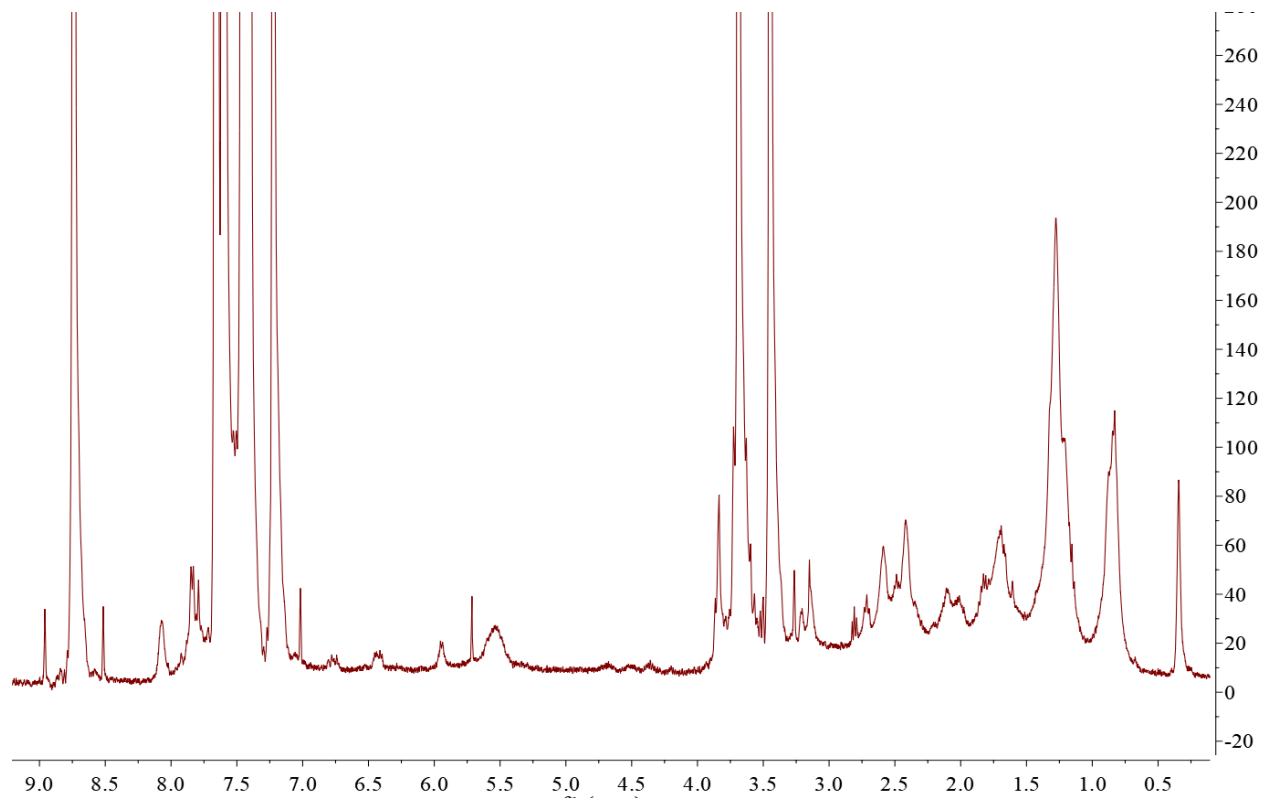


Figure S48. ^1H (400 MHz) NMR spectrum of **10b** in pyridine- d_5

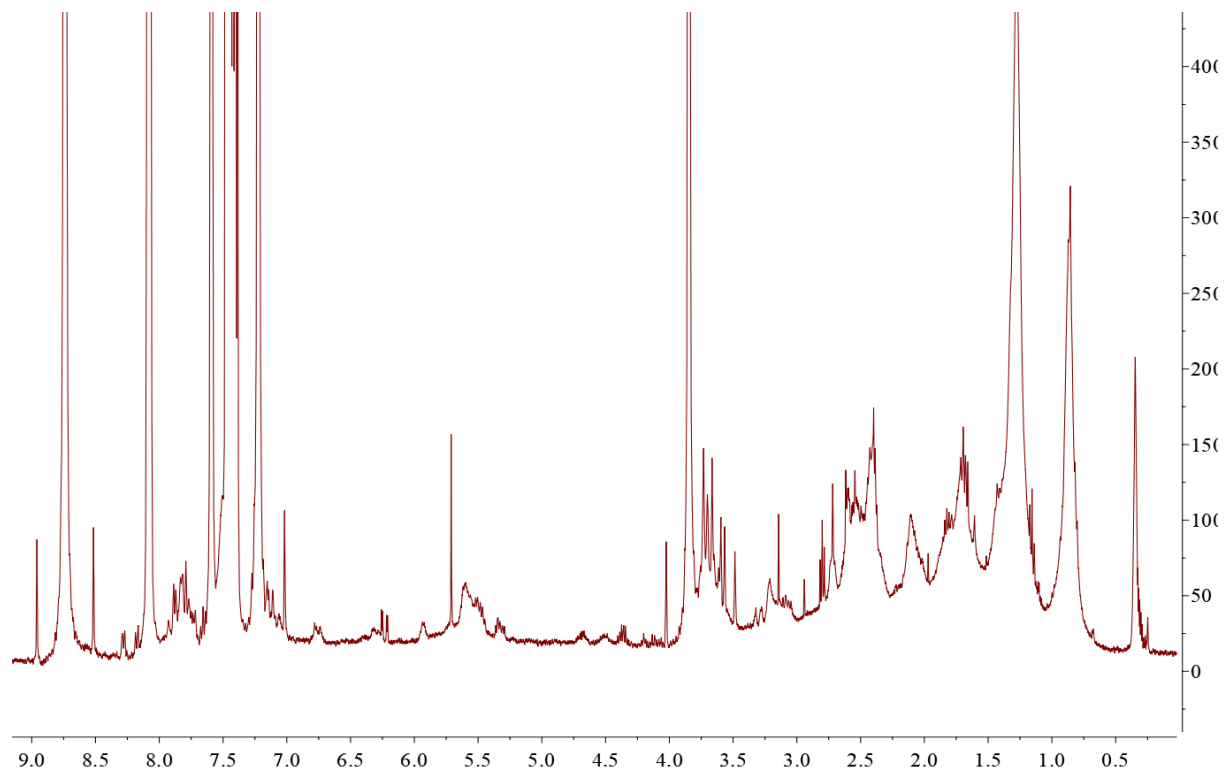


Figure S49. ^1H (400 MHz) NMR spectrum of **15a** in pyridine- d_5

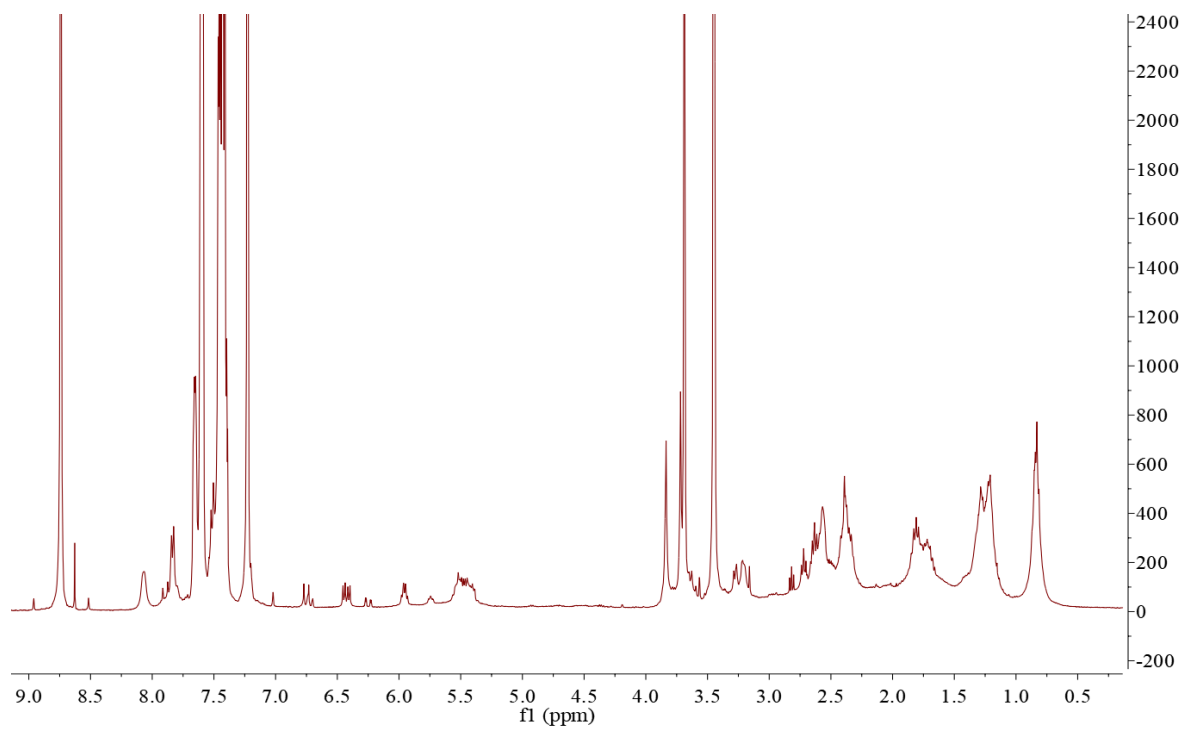


Figure S50. ^1H - ^1H COSY spectrum of **15a** in pyridine- d_5

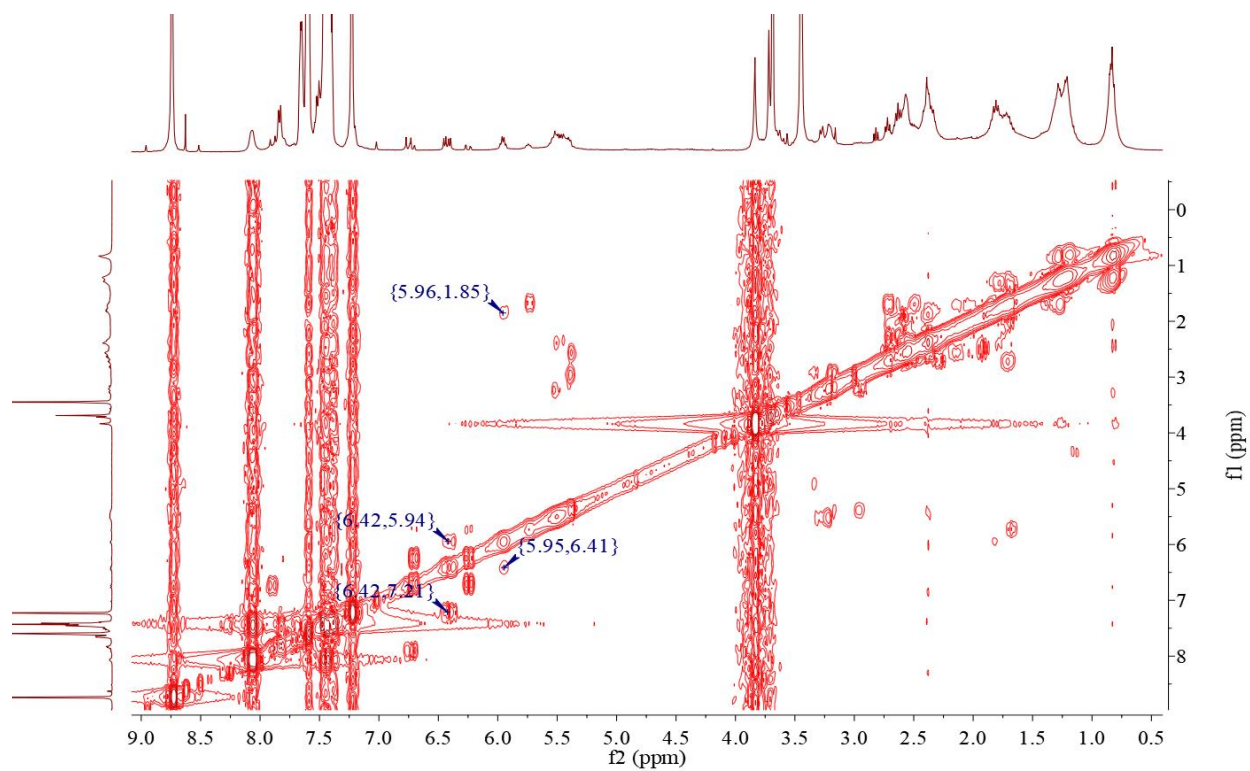


Figure S51. ^1H (400 MHz) NMR spectrum of **15b** in pyridine- d_5

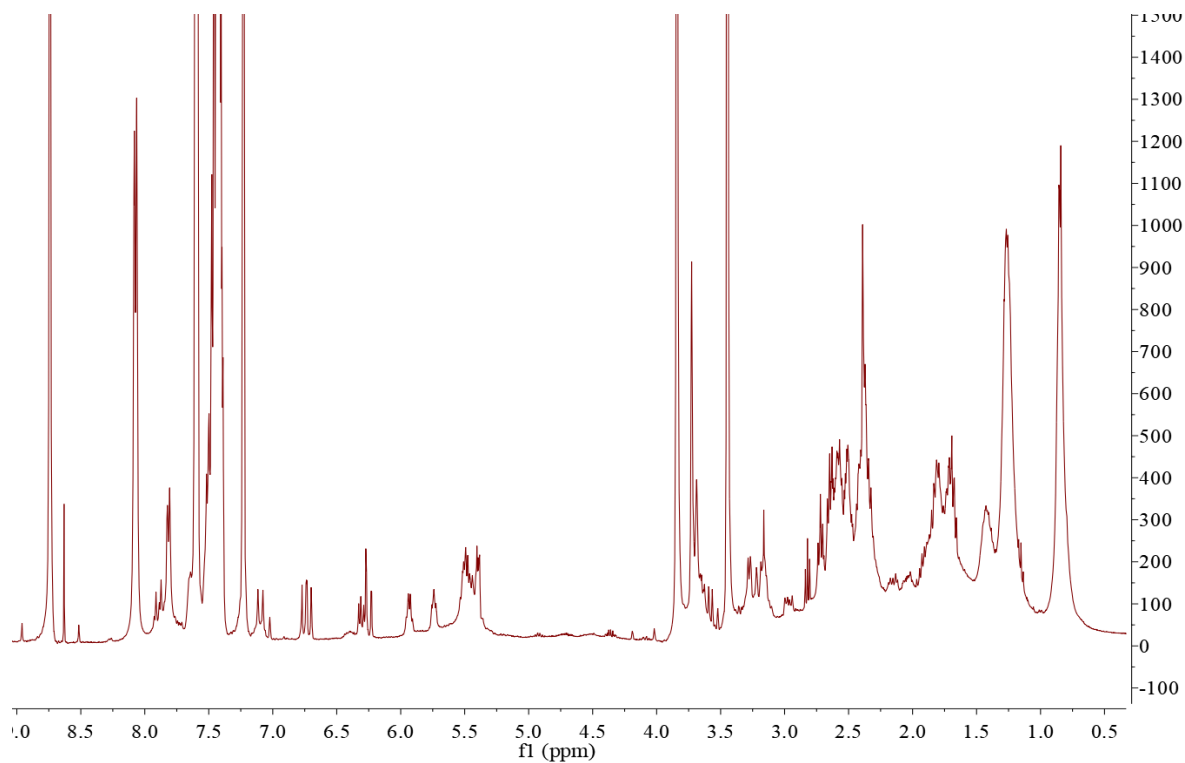


Figure S52. ^1H - ^1H COSY spectrum of **15b** in pyridine- d_5

