

A New Antimicrobial Phenylpropanol from the Leaves of *Tabernaemontana inconspicua* Stapf. (Apocynaceae)

Lidwine Ngah ¹, Willifred Dongmo Tékapi Tsopgni ¹, Judith Caroline Ngo Nyobe ², Alain Tadjong Tcho ³, Moses K Langat ⁴, Jean Claude Ndom ¹, Eduard Mas-Claret ⁴, Nicholas John Sadgrove ⁴, Alain François Kamdem Waffo ¹ and Methee Phumthum ^{4, 5, *}

¹ Department of Chemistry, University of Douala, Faculty of Sciences, 24157 Douala, Cameroon

² Laboratory of Quality Control for Food, Pharmaceutical and Cosmetic Products, Department of Thermal Engineering and Energy, University Institute of Technology, University of Douala, PO Box: 8698 Douala, Cameroon

³ Department of Chemistry, University of Buea, Faculty of Sciences, PO Box: 63 Buea, Cameroon

⁴ Royal Botanic Gardens, Kew, Kew Green, Richmond, Surrey, TW9 3AE, UK

⁵ Department of Pharmaceutical Botany, Faculty of Pharmacy, Mahidol University, Bangkok, 10400, Thailand

Contents:

Figure S1: (+)-HR-ESI spectrum of 1	2
Figure S2: ^1H NMR spectrum (500 MHz) of 1 in MeOD	2
Figure S3: ^{13}C NMR spectrum (125 MHz) of 1 in MeOD	3
Figure S4: DEPT spectrum (125 MHz) of 1 in MeOD	3
Figure S5: HMBC spectrum of 1 in MeOD	3
Figure S6: NOESY spectrum of 1 in MeOD	4
Figure S7: ^1H NMR spectrum (500 MHz) of 2 in MeOD	4
Figure S8: ^1H - ^1H COSY spectrum of 2 in MeOD	5
Figure S9: ^{13}C NMR spectrum (125 MHz) of 1 in MeOD	5
Figure S10: DEPT spectrum (125 MHz) of 1 in MeOD	6
Figure S11: HMBC spectrum of 2 in MeOD	6
Figure S12: ^1H NMR spectrum (500 MHz) of 3 in MeOD	7
Figure S13: ^1H - ^1H COSY spectrum of 3 in MeOD	7
Figure S14: ^{13}C NMR spectrum (125 MHz) of 3 in MeOD	8
Figure S15: DEPT spectrum (125 MHz) of 3 in MeOD	8
Figure S16: HMBC spectrum of 3 in MeOD	9
Figure S17: ^1H NMR spectrum (500 MHz) of 4 in MeOD	9
Figure S18: DEPT spectrum (125 MHz) of 4 in MeOD	10
Figure S19: HMBC spectrum of 4 in MeOD	10
Figure S20: ^1H NMR spectrum (500 MHz) of 5 in MeOD	11
Figure S21: HMBC spectrum of 5 in MeOD	11
Figure S22: ^1H NMR spectrum (500 MHz) of 6 in CDCl_3	12
Figure S23: ^1H NMR spectrum (500 MHz) of 7 in MeOD	12
Figure S24: ^1H NMR spectrum (500 MHz) of 8 and 10 in CDCl_3	13
Figure S25: ^1H NMR spectrum (500 MHz) of 9 in CDCl_3 / MeOD	13

D:\Xcalibur\...\Berset TBC1_210803153951 8/4/2021 8:39:44 AM Berset TBC1
 NSI pos MeOH
 Berset TBC1_210803153951 #33-42 RT: 1.14-1.39 AV: 10 NL: 2.05E7
 T: FTMS + p NSI Full ms [80.00-500.00]

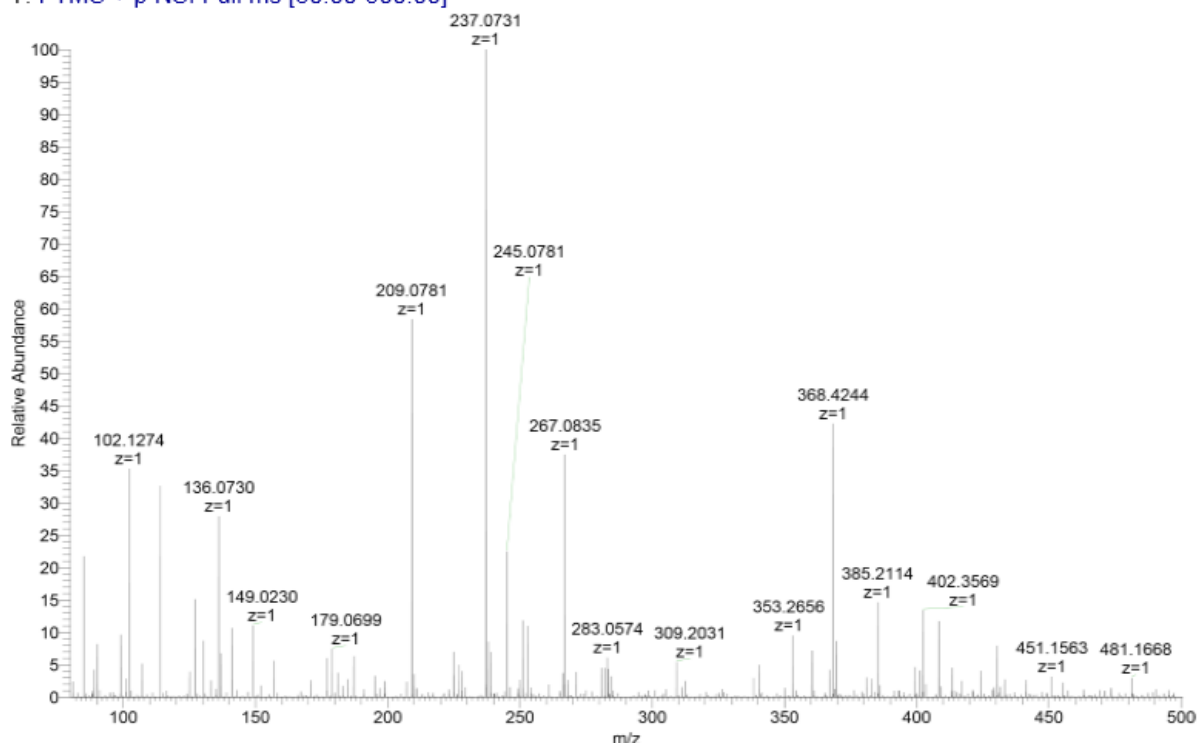


Figure S1: ^1H NMR spectrum (500 MHz) of **1** in MeOD

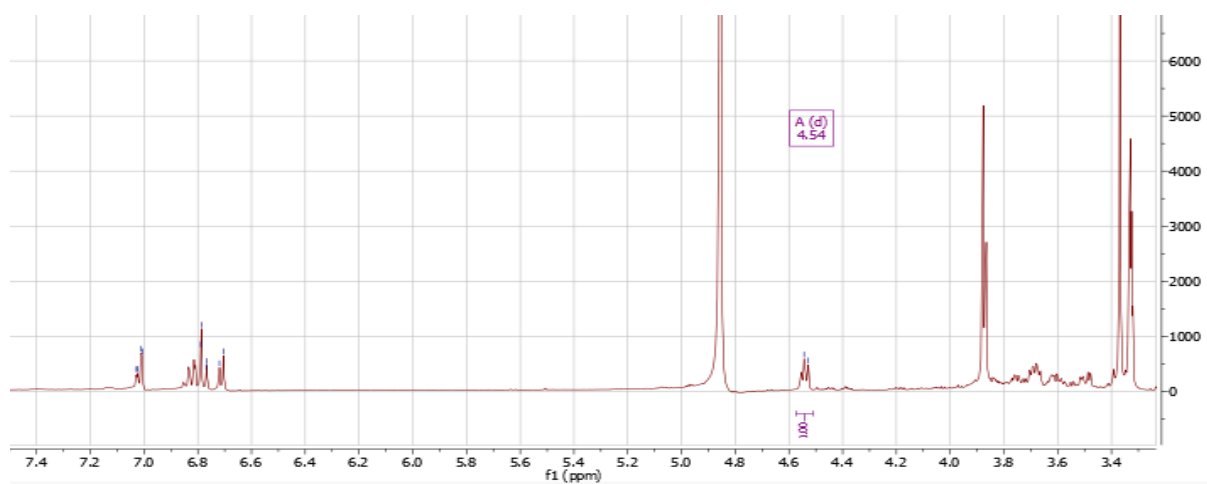


Figure S2: ^1H NMR spectrum (500 MHz) of **1** in MeOD

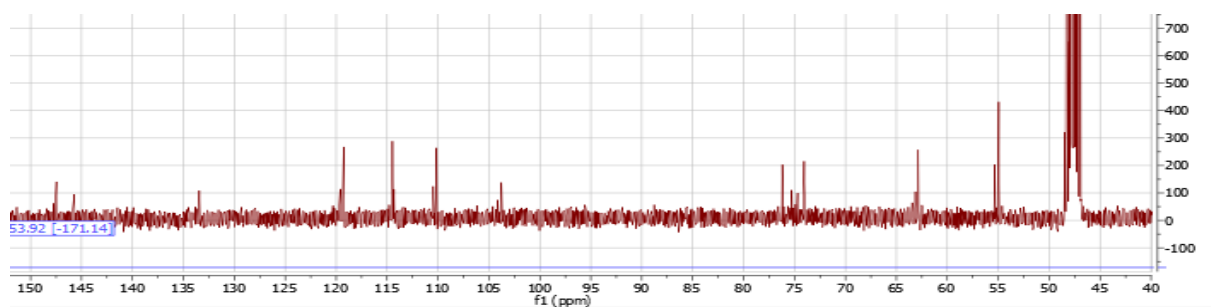


Figure S3: ^{13}C NMR spectrum (125 MHz) of **1** in MeOD

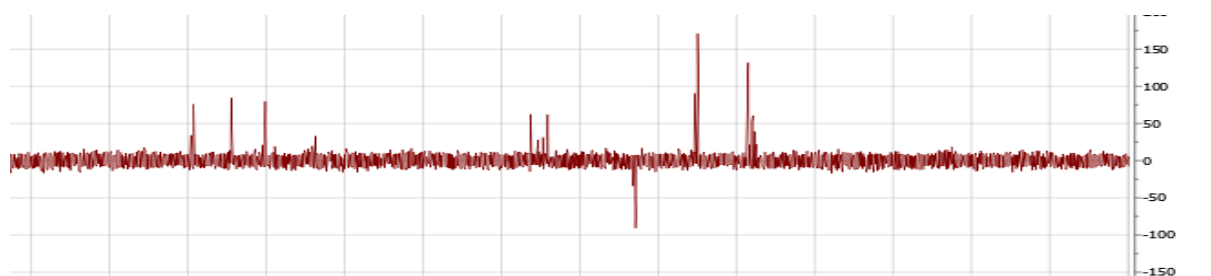


Figure S4: DEPT 135 spectrum (125 MHz) of **1** in MeOD

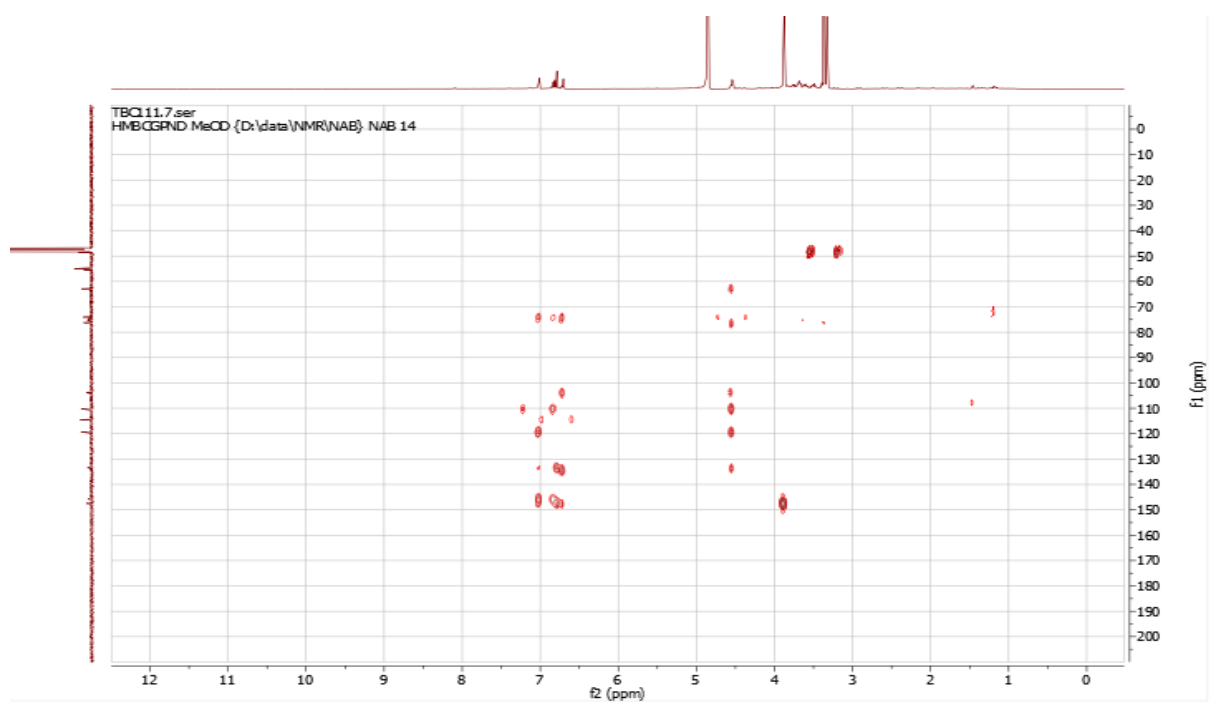


Figure S5: HMBC spectrum of **1** in MeOD

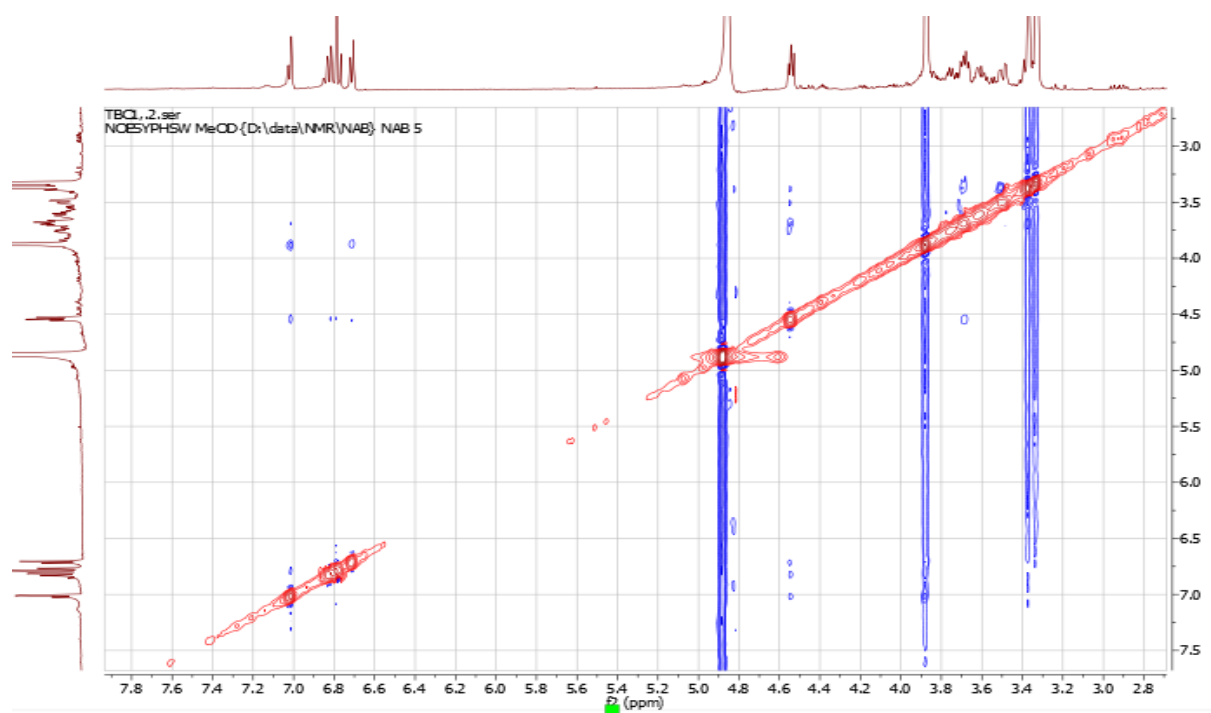


Figure S6: HMBC spectrum of **1** in MeOD

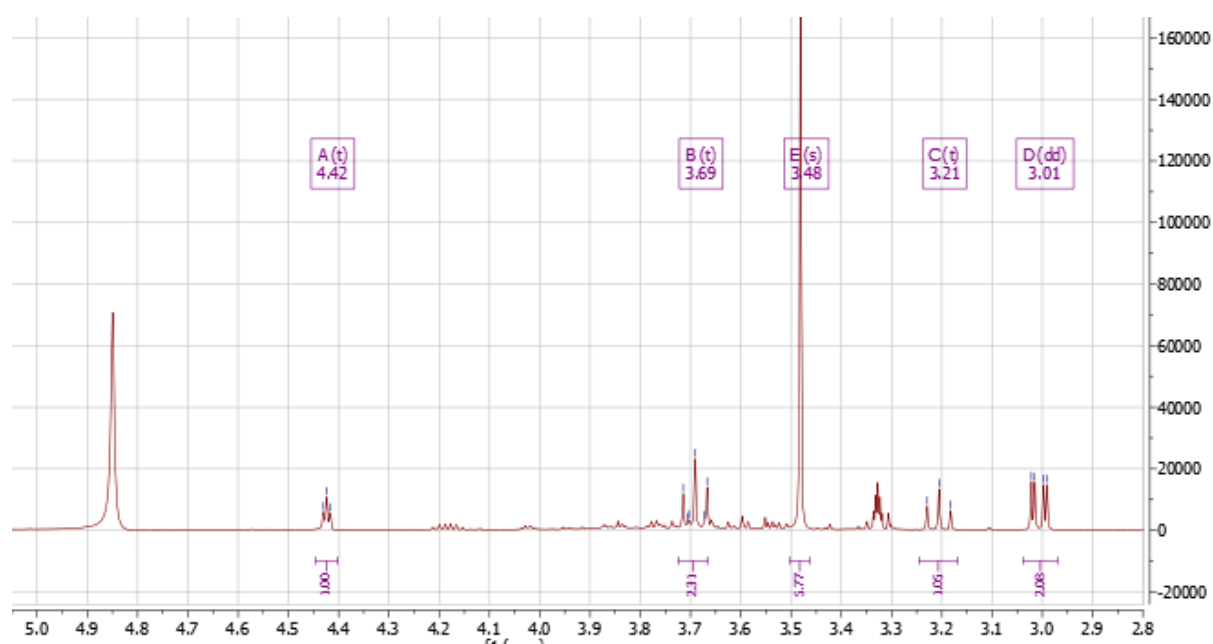


Figure S7: ^1H NMR spectrum (500 MHz) of **2** in MeOD

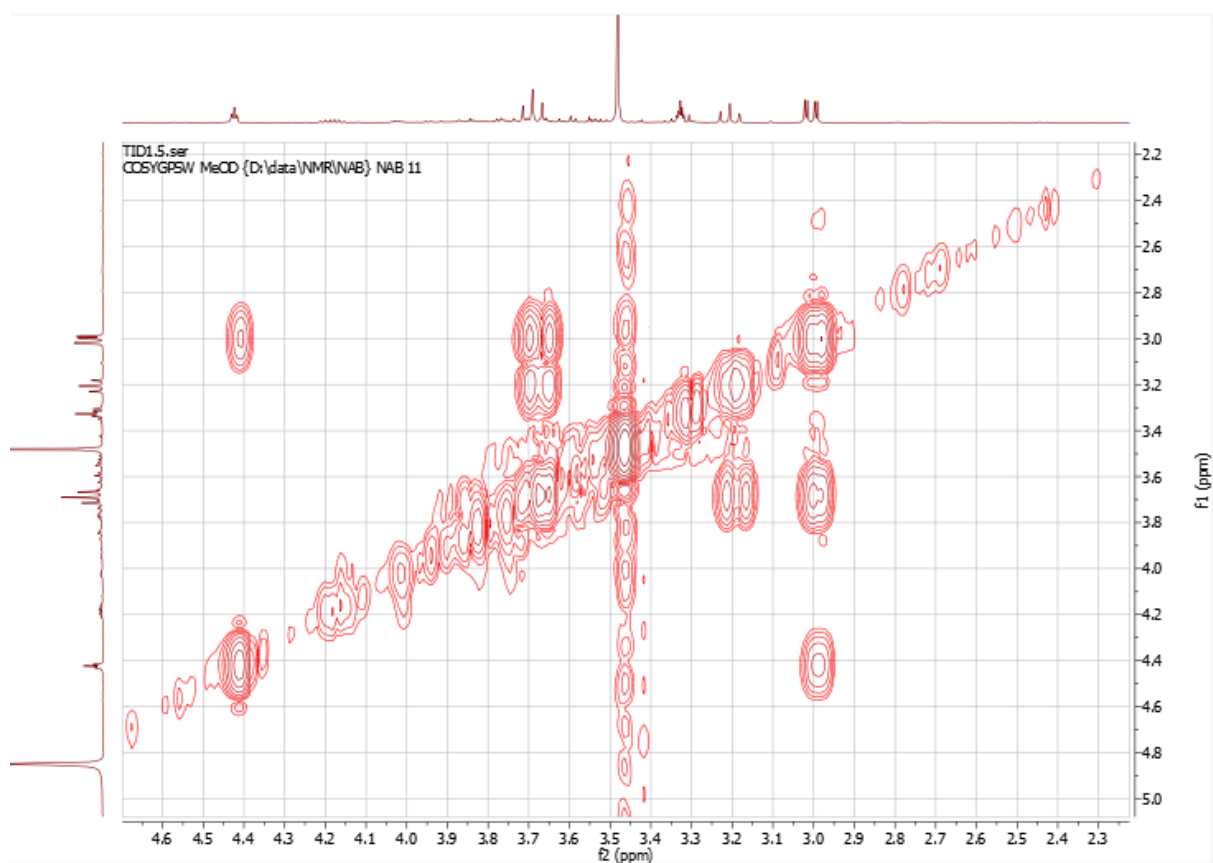


Figure S8: COSY ^1H - ^1H spectrum (500 MHz) of **2** in MeOD

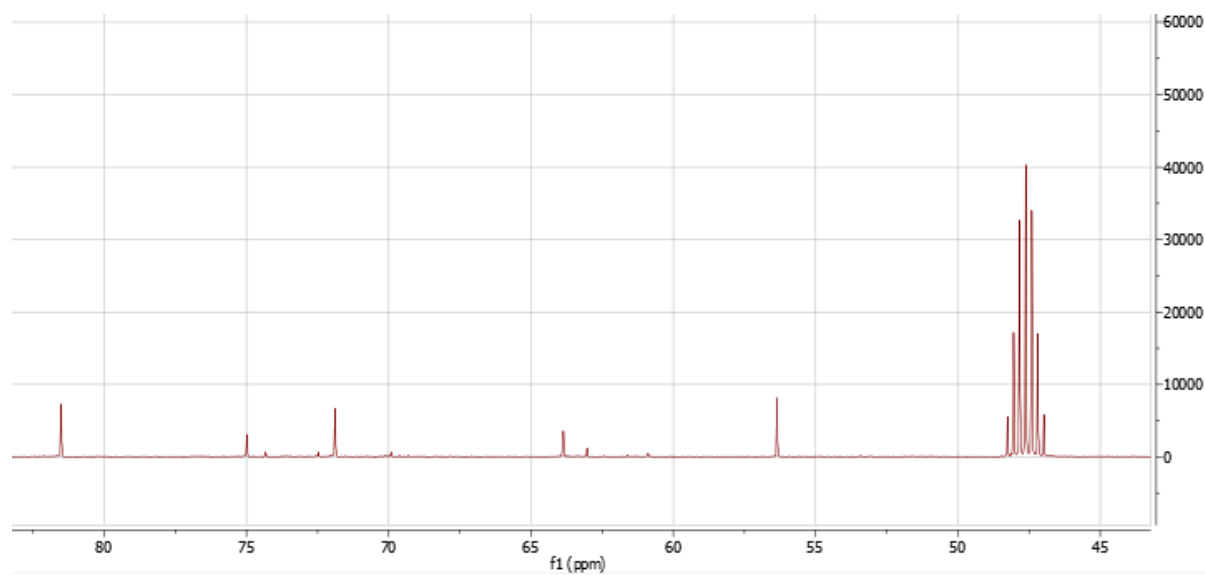


Figure S9: ^{13}C NMR spectrum (125 MHz) of **2** in MeOD

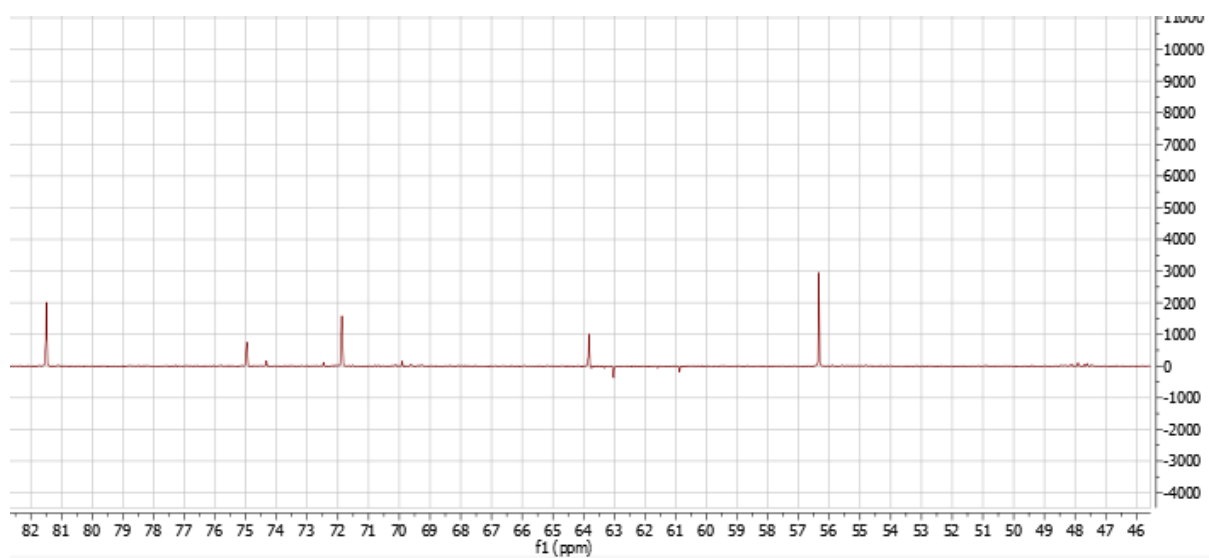


Figure S10: DEPT 135 spectrum (125 MHz) of **2** in MeOD

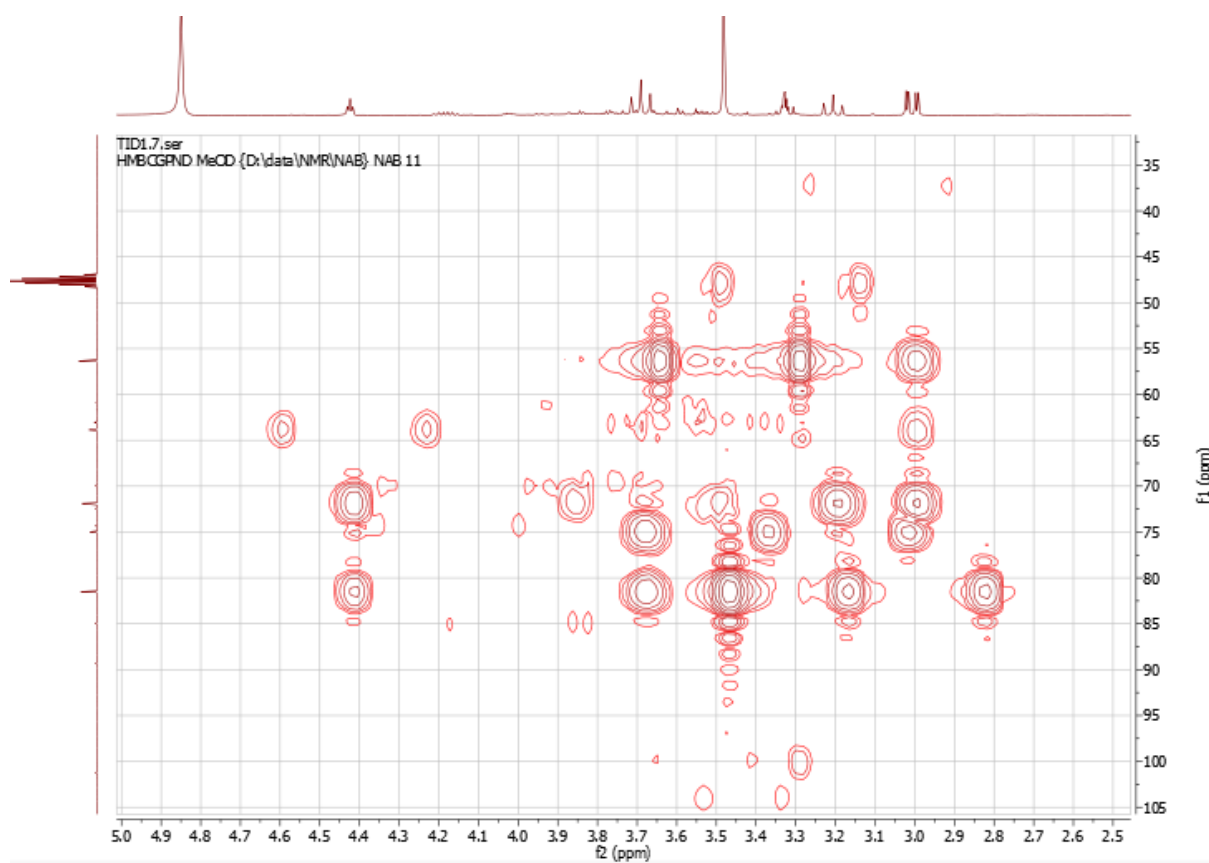


Figure S11: HMBC spectrum of **2** in MeOD

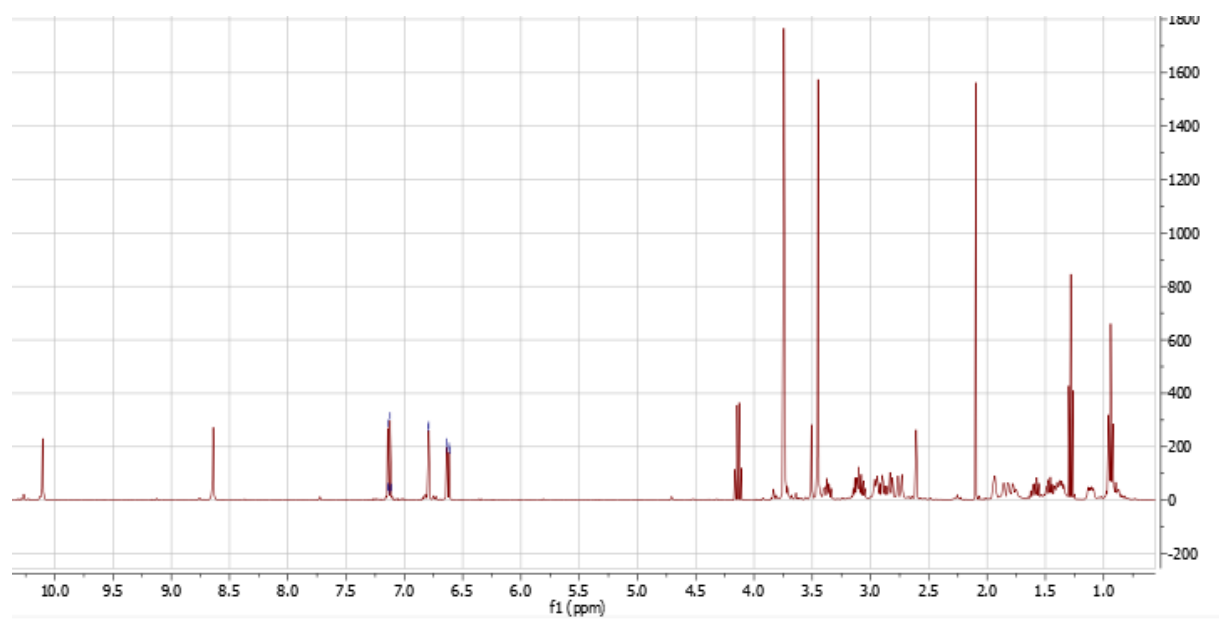


Figure S12: ^1H NMR spectrum (500 MHz) of **3** in MeOD

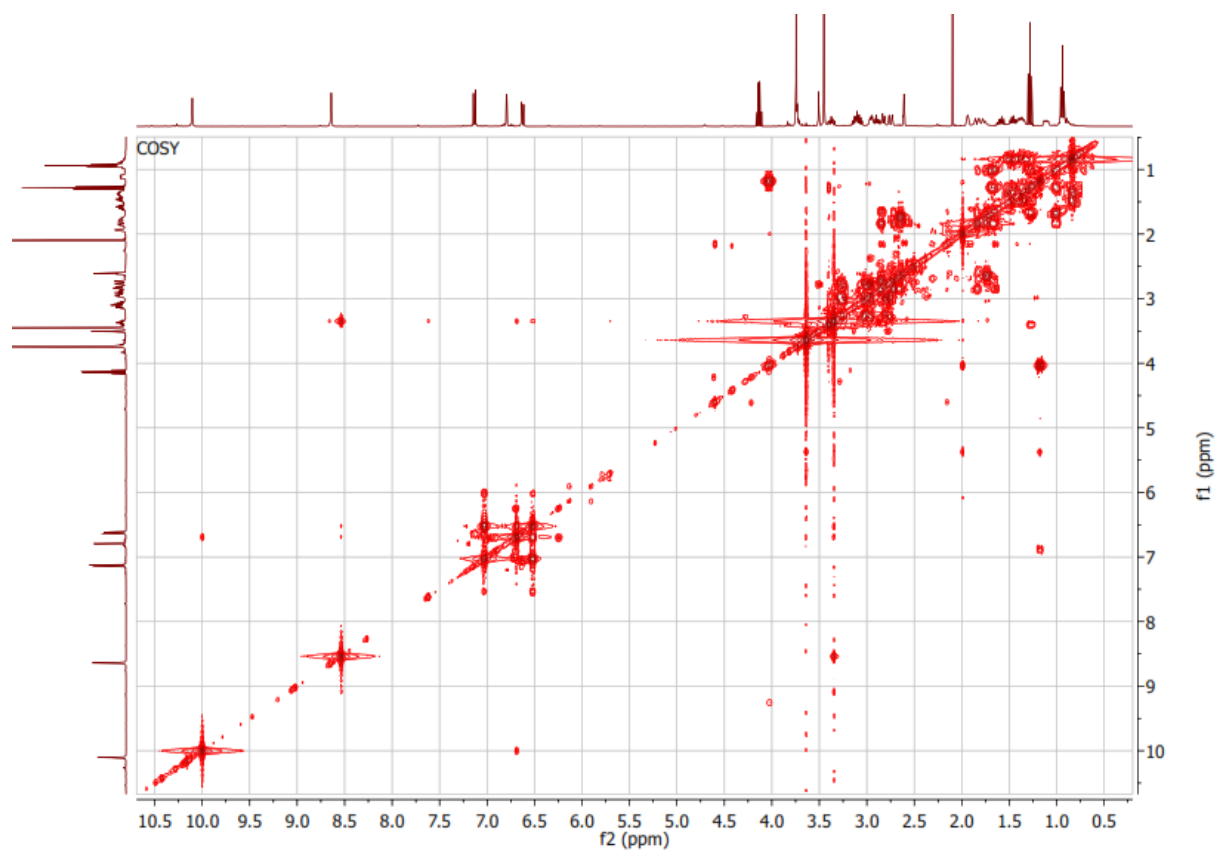


Figure S13: COSY ^1H - ^1H spectrum (500 MHz) of **3** in MeOD

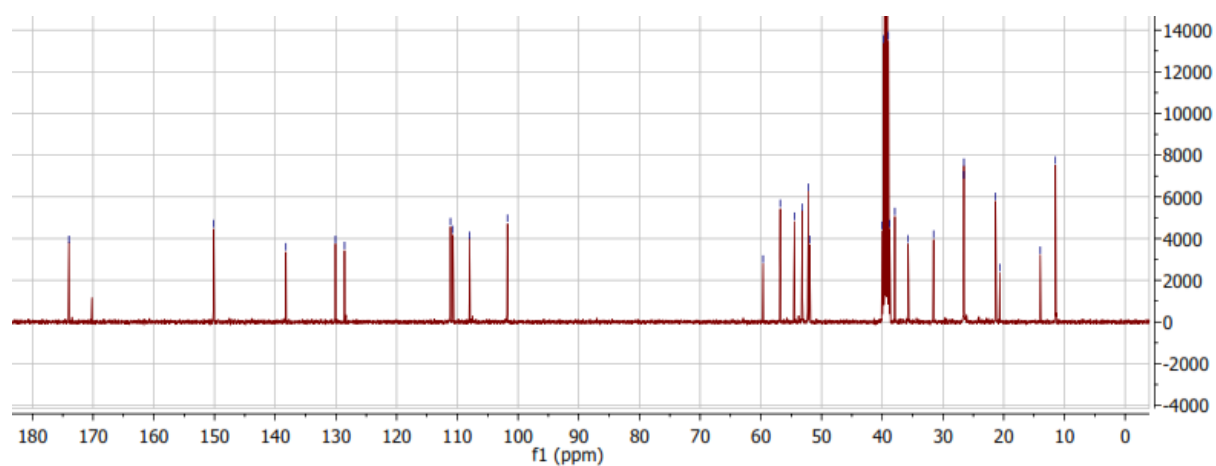


Figure S14: ^{13}C NMR spectrum (125 MHz) of 3 in MeOD

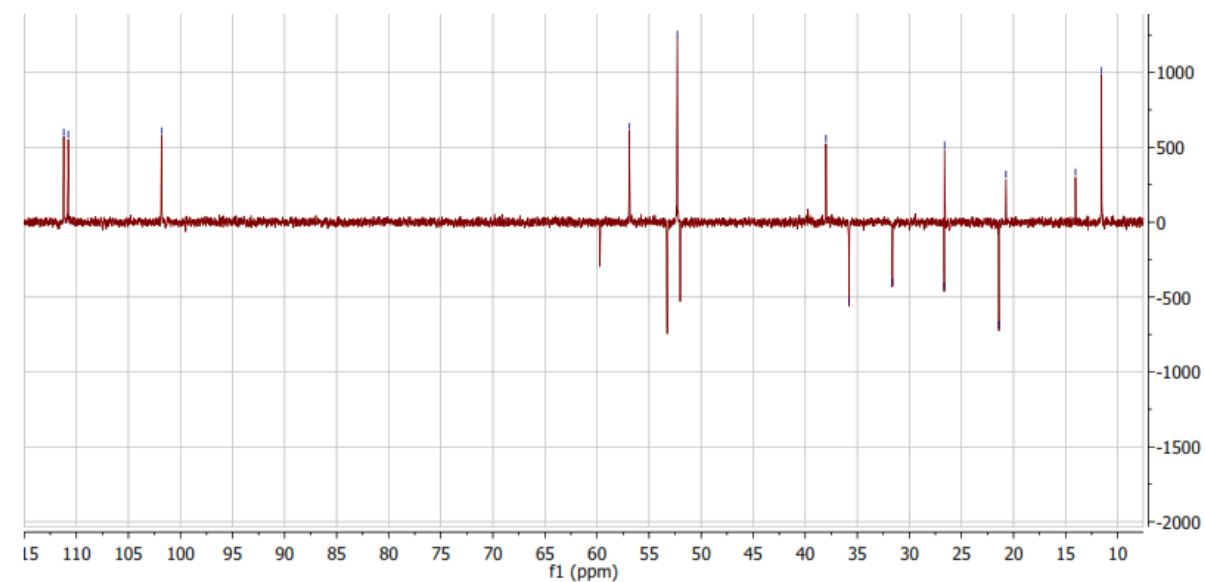


Figure S15: ^{13}C NMR spectrum (125 MHz) of 3 in MeOD

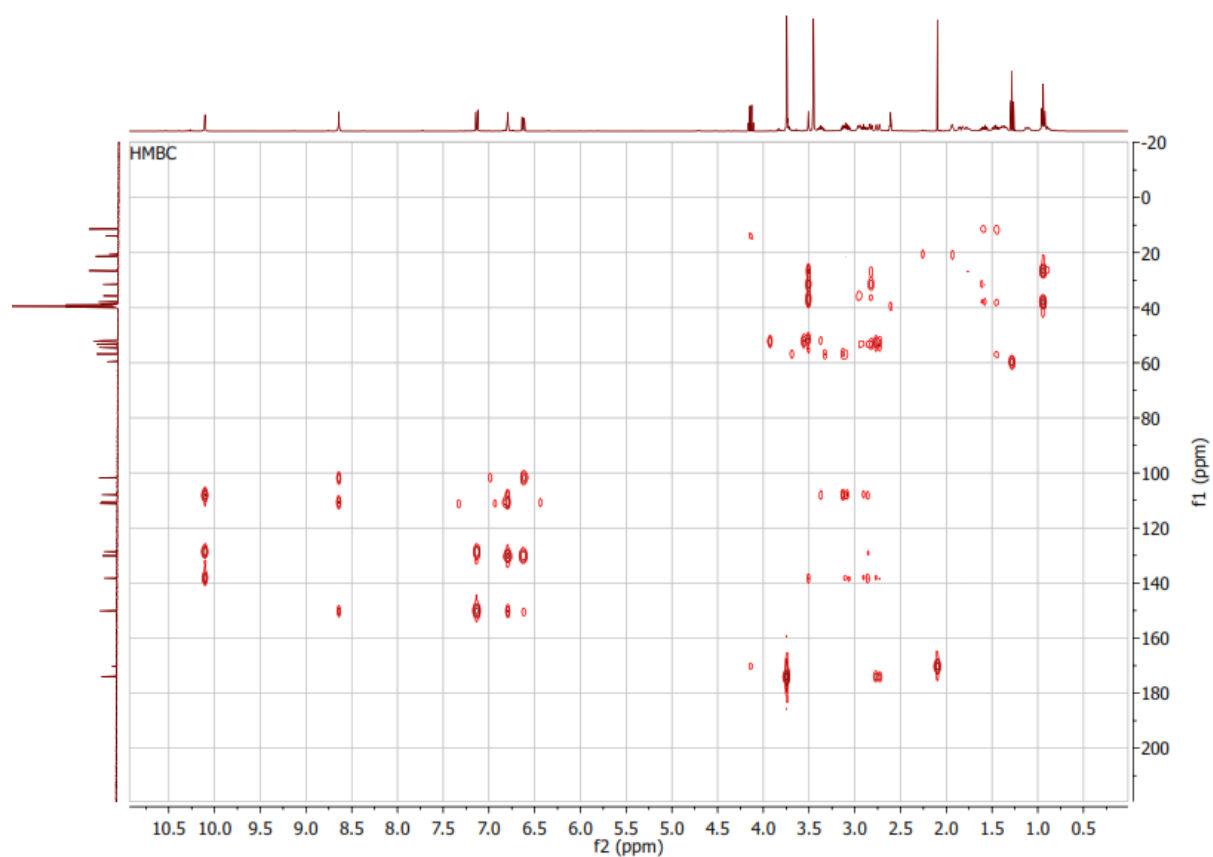


Figure S16: HMBC spectrum of **3** in MeOD

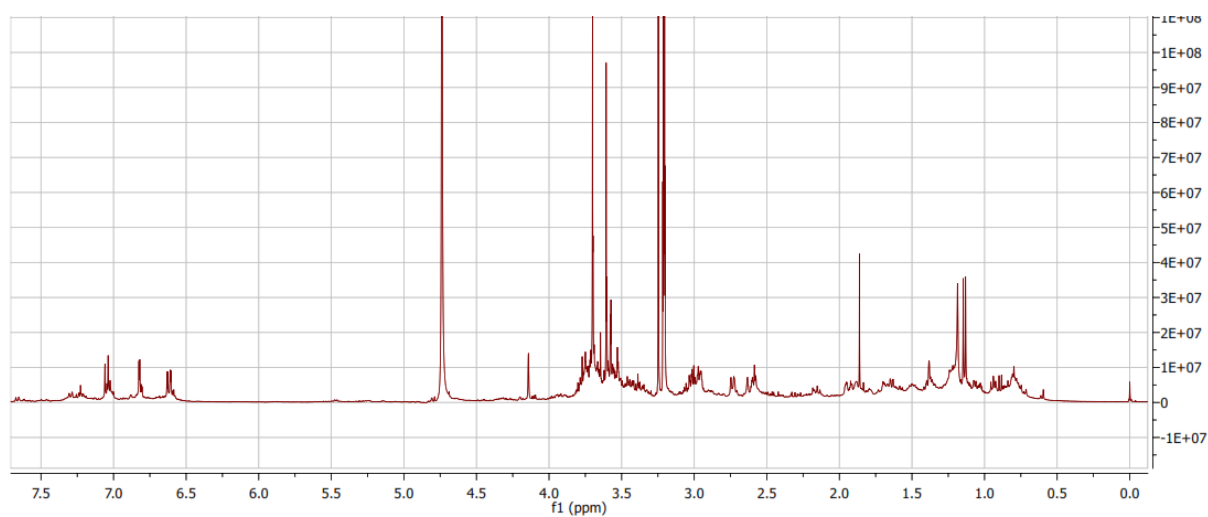


Figure S17: ^1H NMR spectrum (500 MHz) of **4** in MeOD

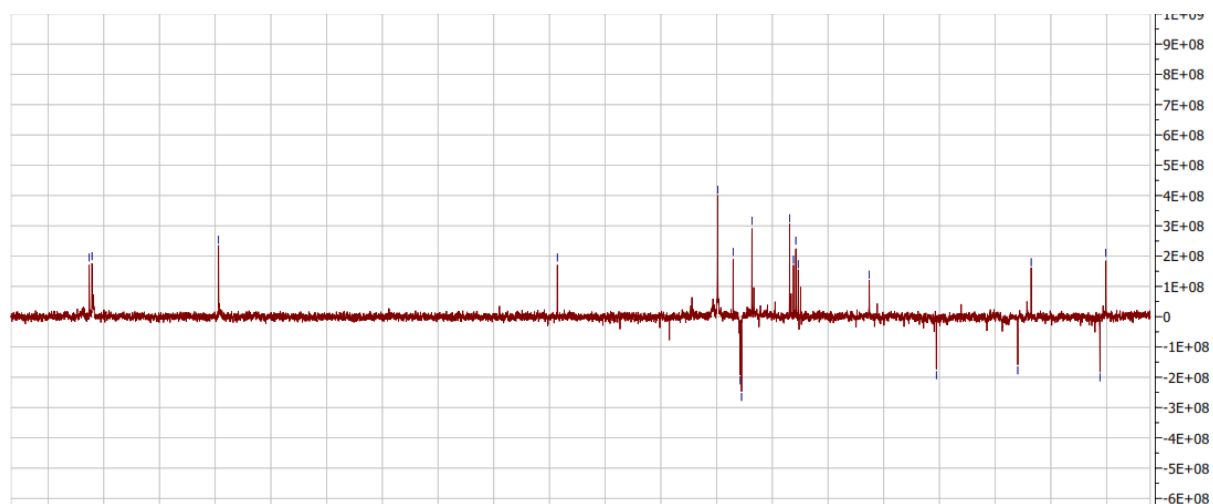


Figure S18: DEPT spectrum (125 MHz) of **4** in MeOD

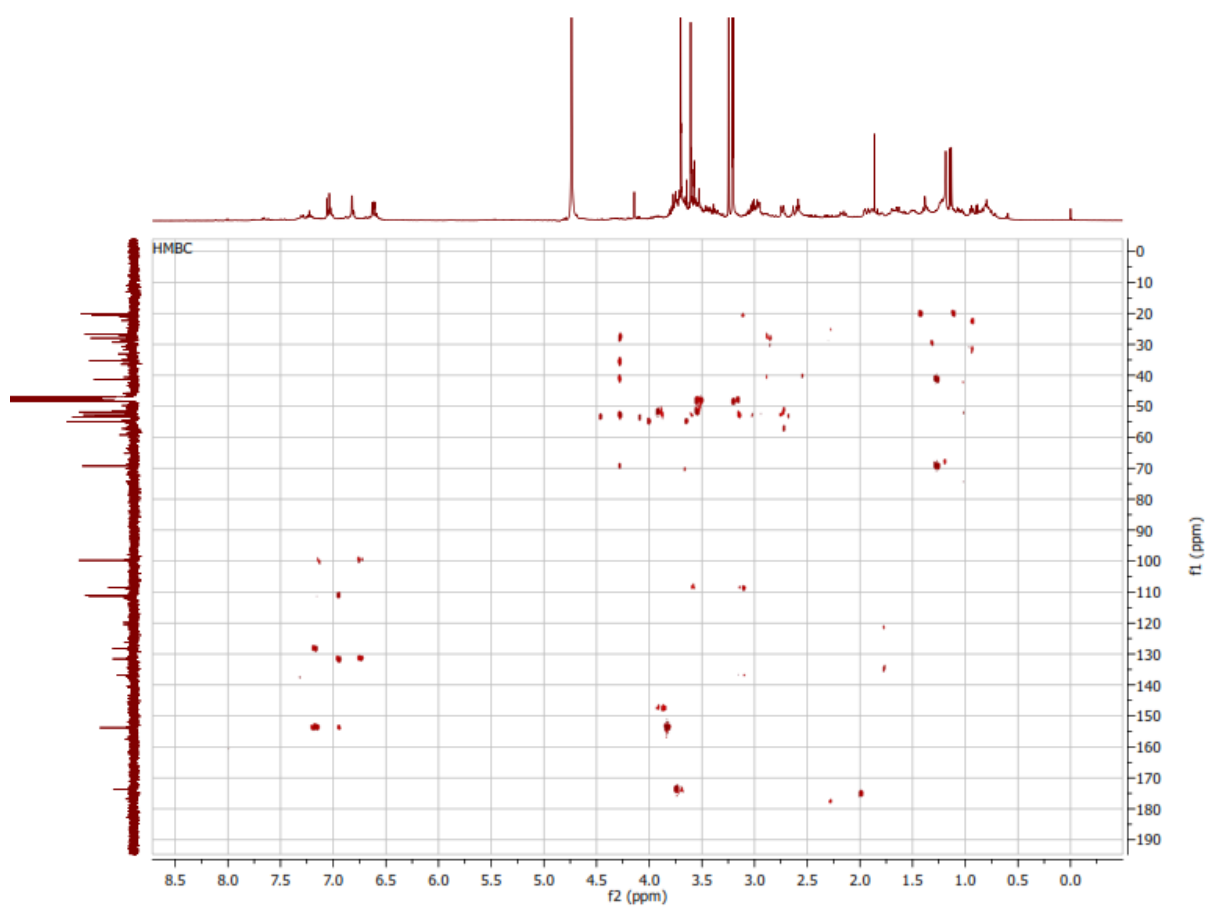


Figure S19: HMBC spectrum of **4** in MeOD

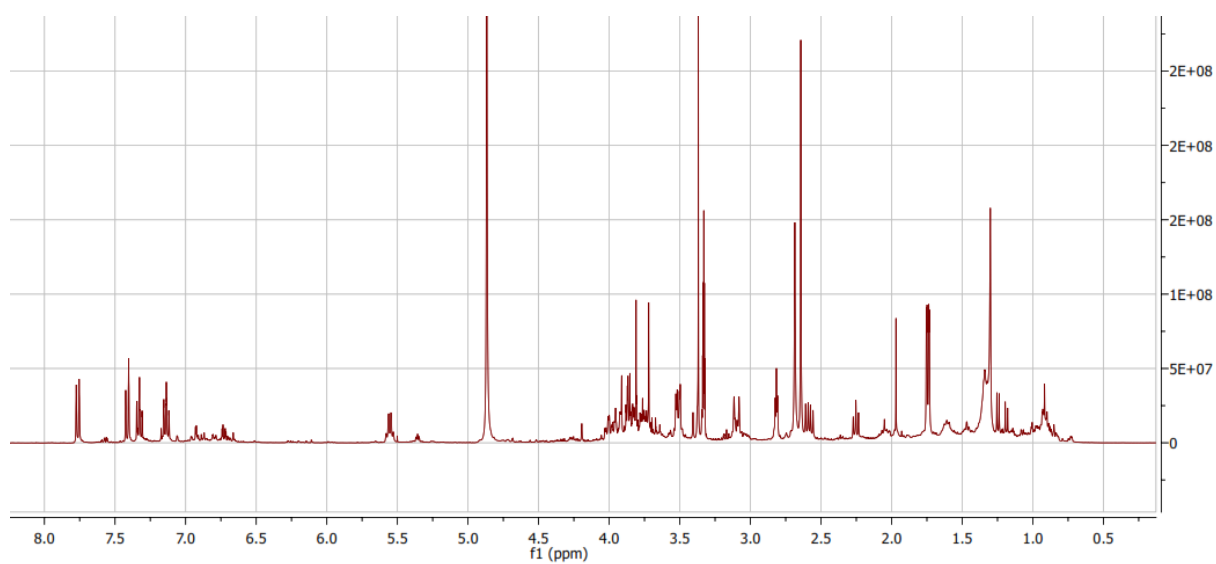


Figure S20: ^1H NMR spectrum (500 MHz) of **5** in MeOD

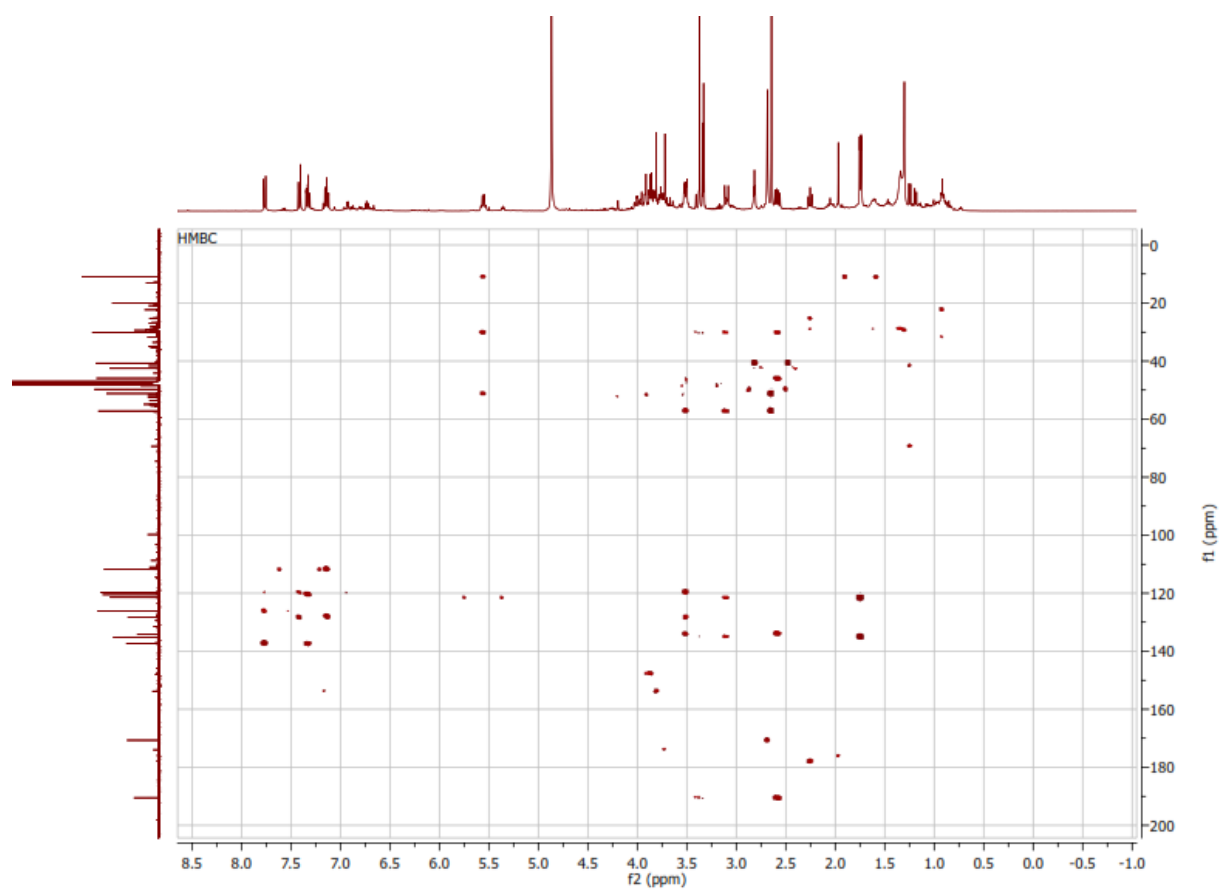


Figure S21: HMBC spectrum of **5** in MeOD

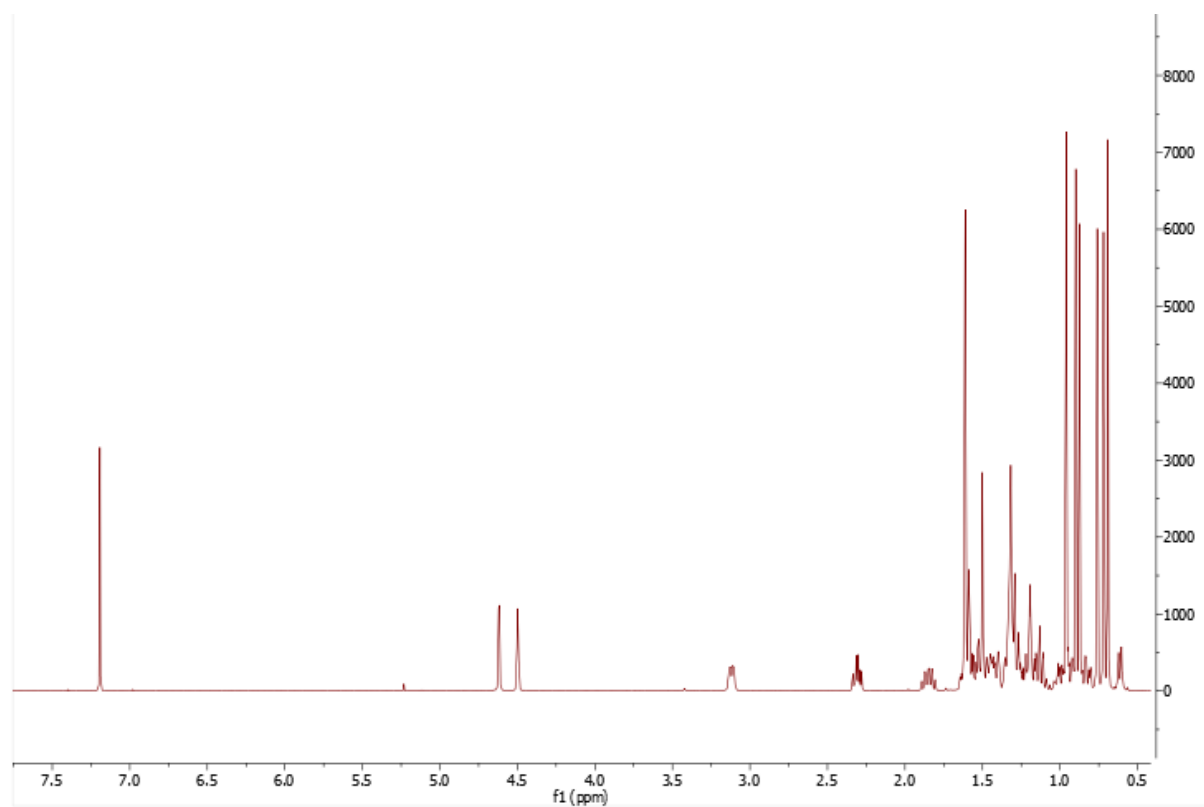


Figure S22: ¹H NMR spectrum (500 MHz) of **6** in CDCl₃

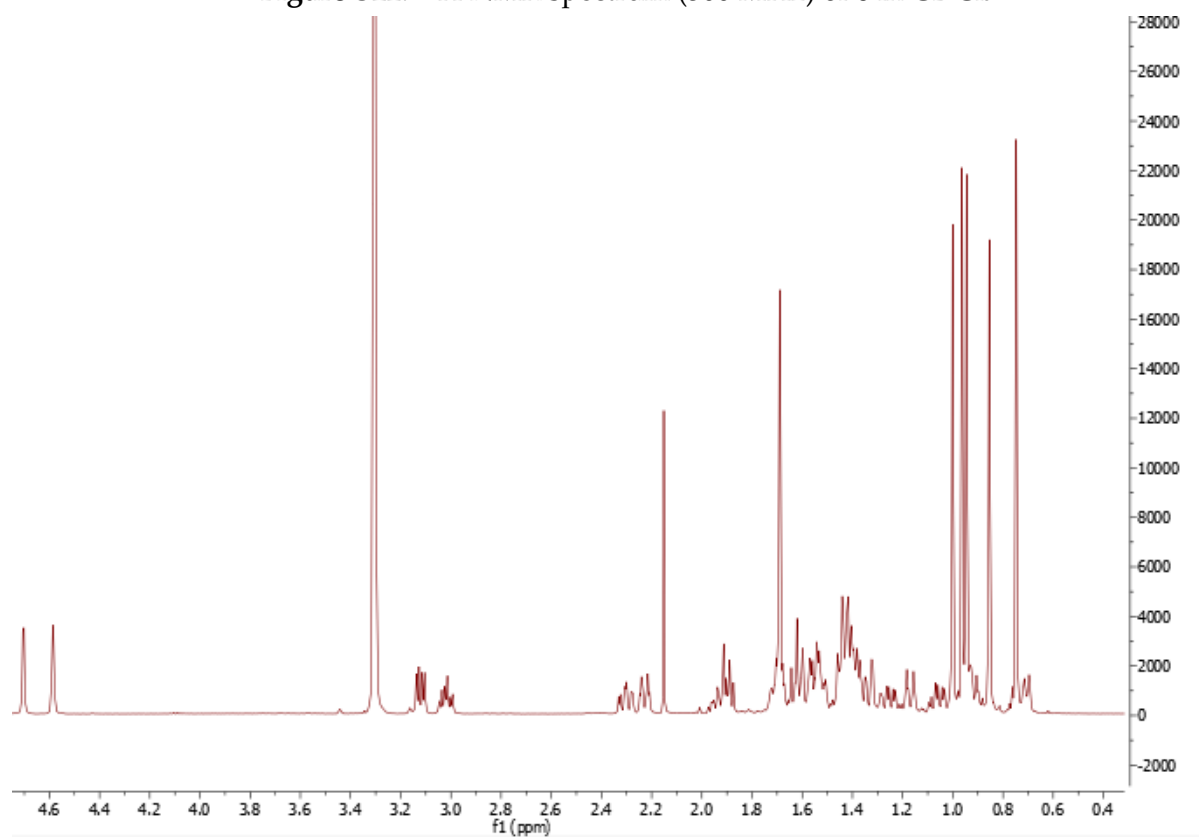


Figure S23: ¹H NMR spectrum (500 MHz) of **7** in MeOD

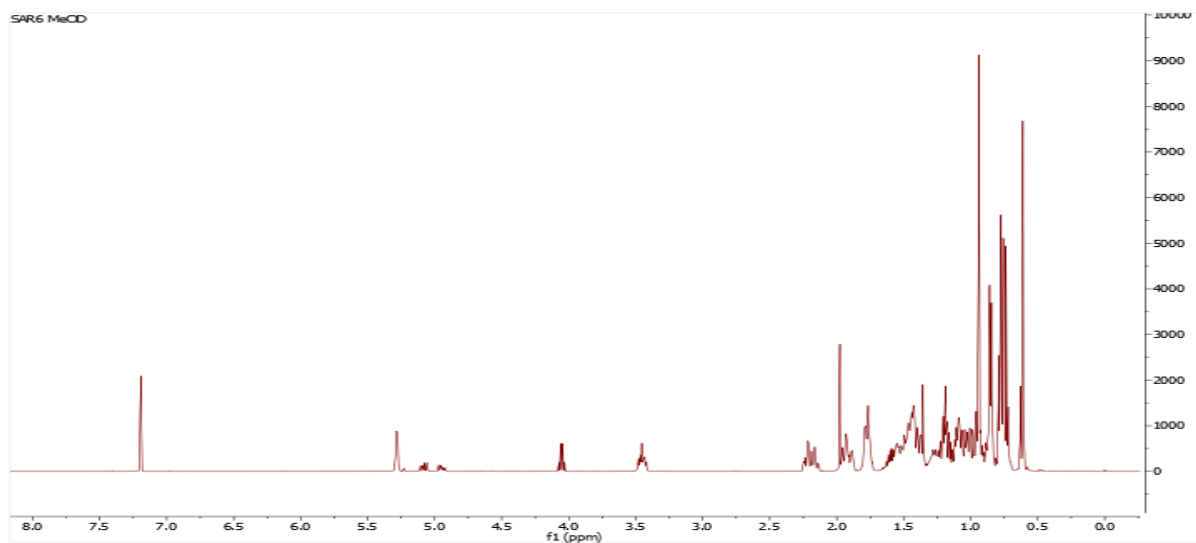


Figure S24: ^1H NMR spectrum (500 MHz) of **8** and **10** in CDCl_3

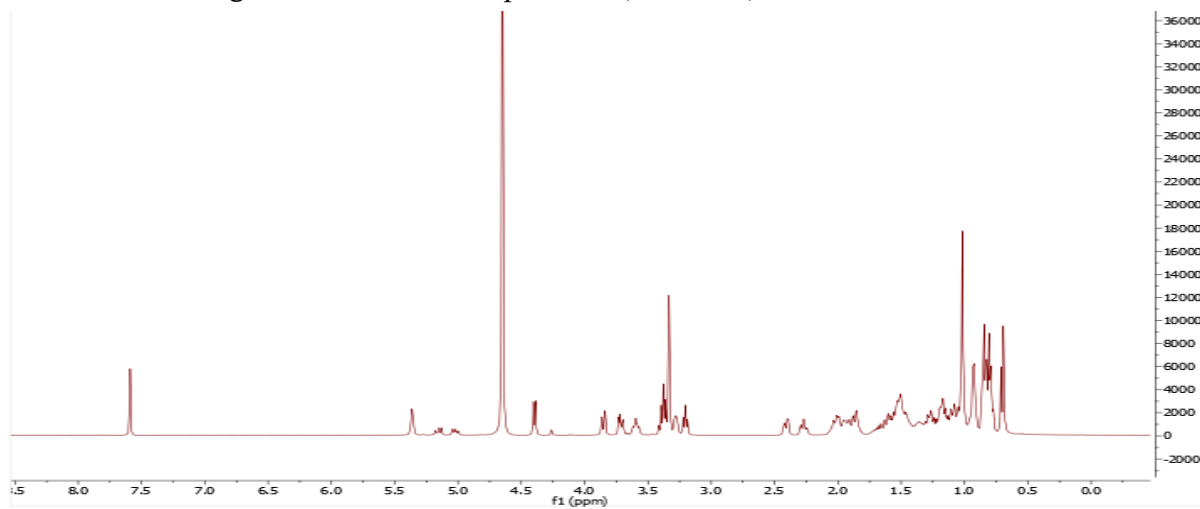


Figure S25: ^1H NMR spectrum (500 MHz) of **9** in $\text{CDCl}_3/\text{MeOD}$