Supporting Information

Sulawesins A–C, Furanosesterterpene Tetronic Acids That Inhibit USP7, from a *Psammocinia* sp. Marine Sponge

Ahmed H. Afifi,[†,‡,§] Ippei Kagiyama,[†,§] Ahmed H. El-Desoky,[†,‡] Hikaru Kato,[†] Remy E. P. Mangindaan,[⊥] Nicole J. de Voogd,[∥] Nagwa M. Ammar,[‡] Mohammed S. Hifnawy,[▽] and Sachiko Tsukamoto*[,†]

[†] Graduate School of Pharmaceutical Sciences, Kumamoto University, 5-1 Oe-honmachi, Kumamoto 862-0973, Japan

[‡] Division of Pharmaceutical Industries, Department of Pharmacognosy, National Research Centre, PO 12622, 33 El Bohouth St. (Former El Tahrir St.), Dokki, Giza, Egypt

[⊥] Faculty of Fisheries and Marine Science, Sam Ratulangi University, Kampus Bahu, Manado 95115, Indonesia

[∥] Naturalis Biodiversity Center, P.O. Box 9517, 2300 RA Leiden, The Netherlands

[▽] Pharmacognosy Department, Faculty of Pharmacy, Cairo University, Kasr-el-Aini Street, 11562 Cairo, Egypt

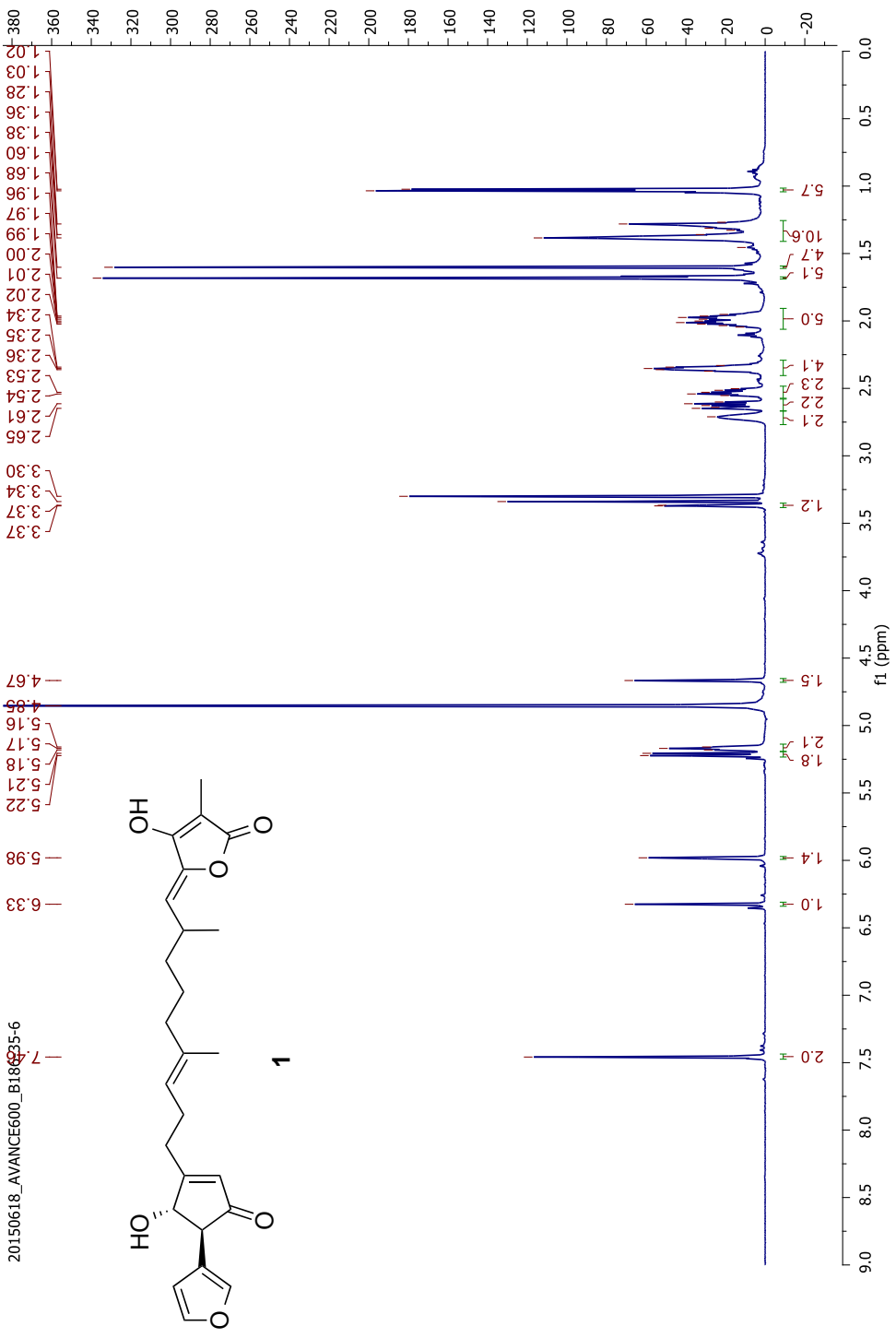

Figure S1. ^{1}H NMR spectrum of **1** in MeOH-d_4.

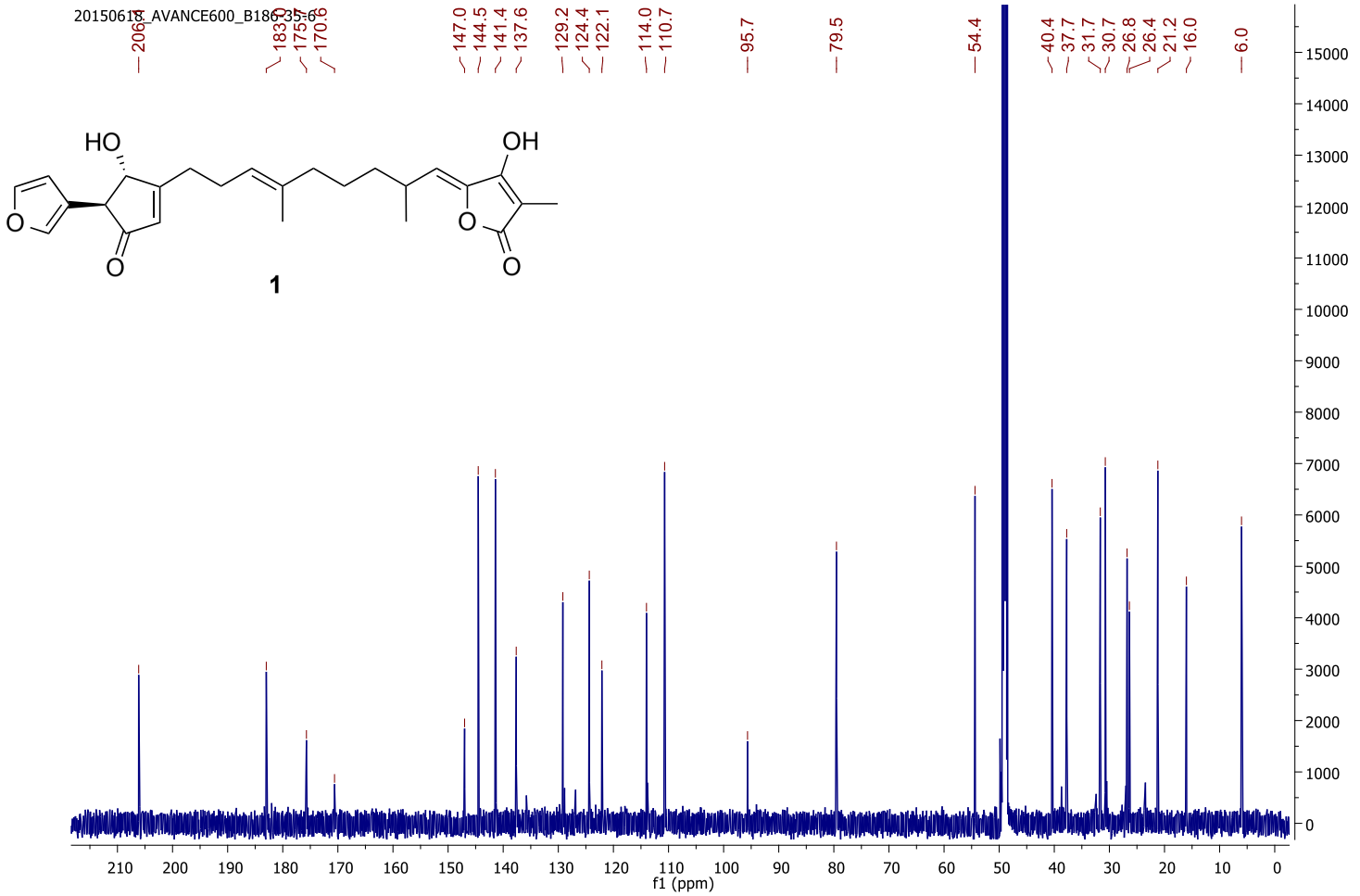

Figure S2. ^{13}C NMR spectrum of **1** in MeOH-d_4.

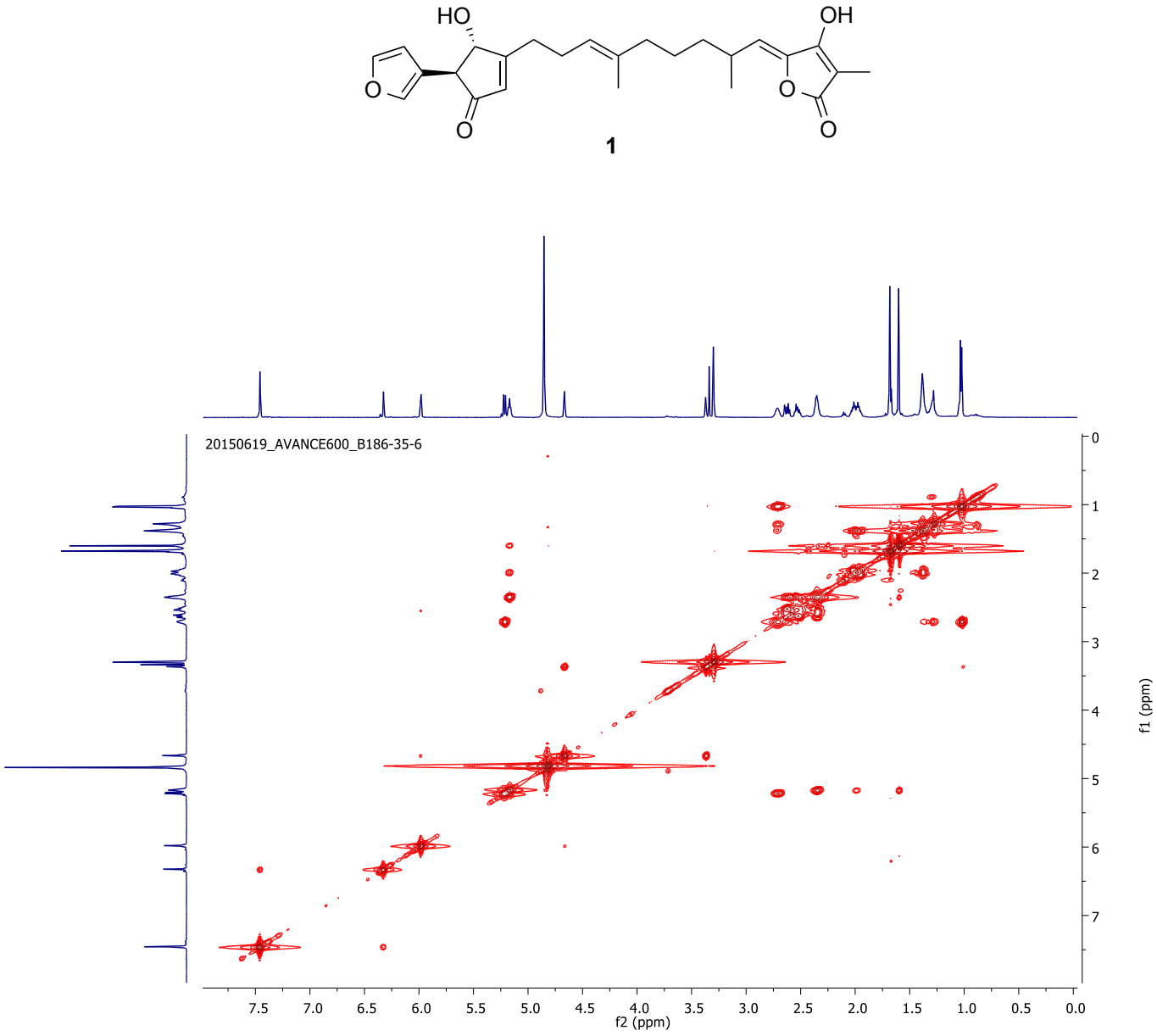

Figure S3. ^{1}H-^{1}H COSY spectrum of **1** in MeOH-d_4.

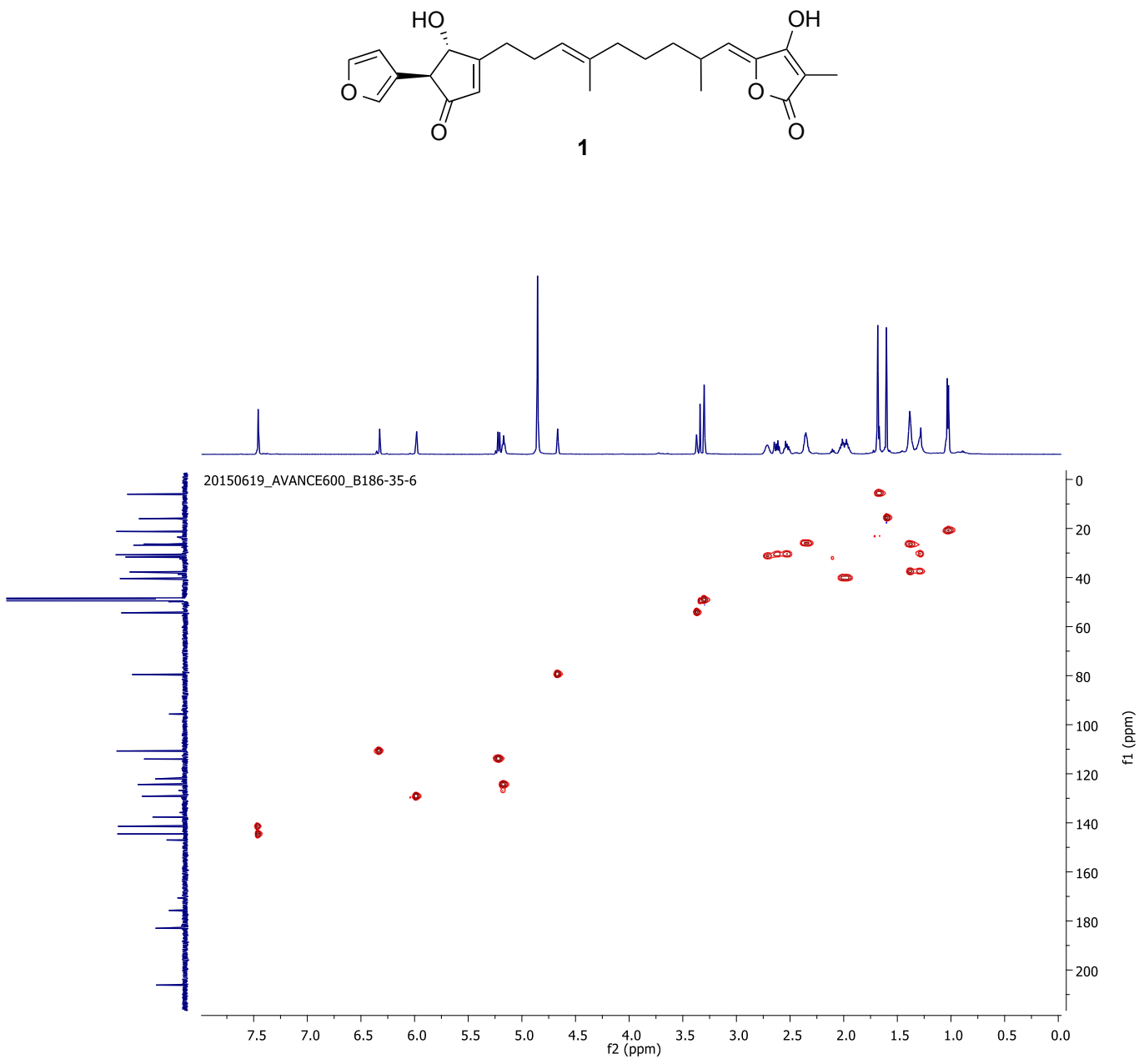

Figure S4. HSQC spectrum of **1** in MeOH-d_4.

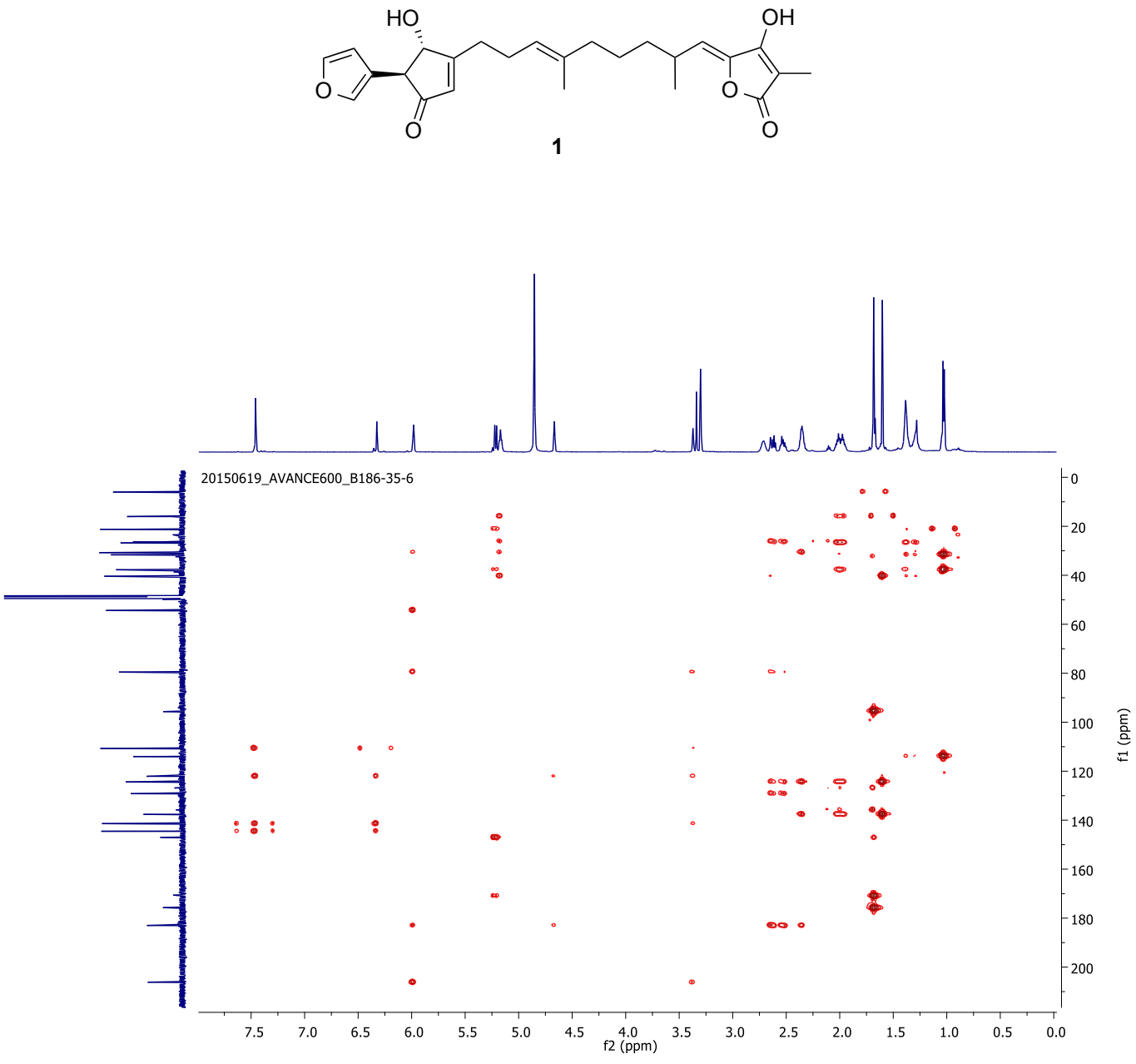

Figure S5. HMBC spectrum of **1** in MeOH-d_4.

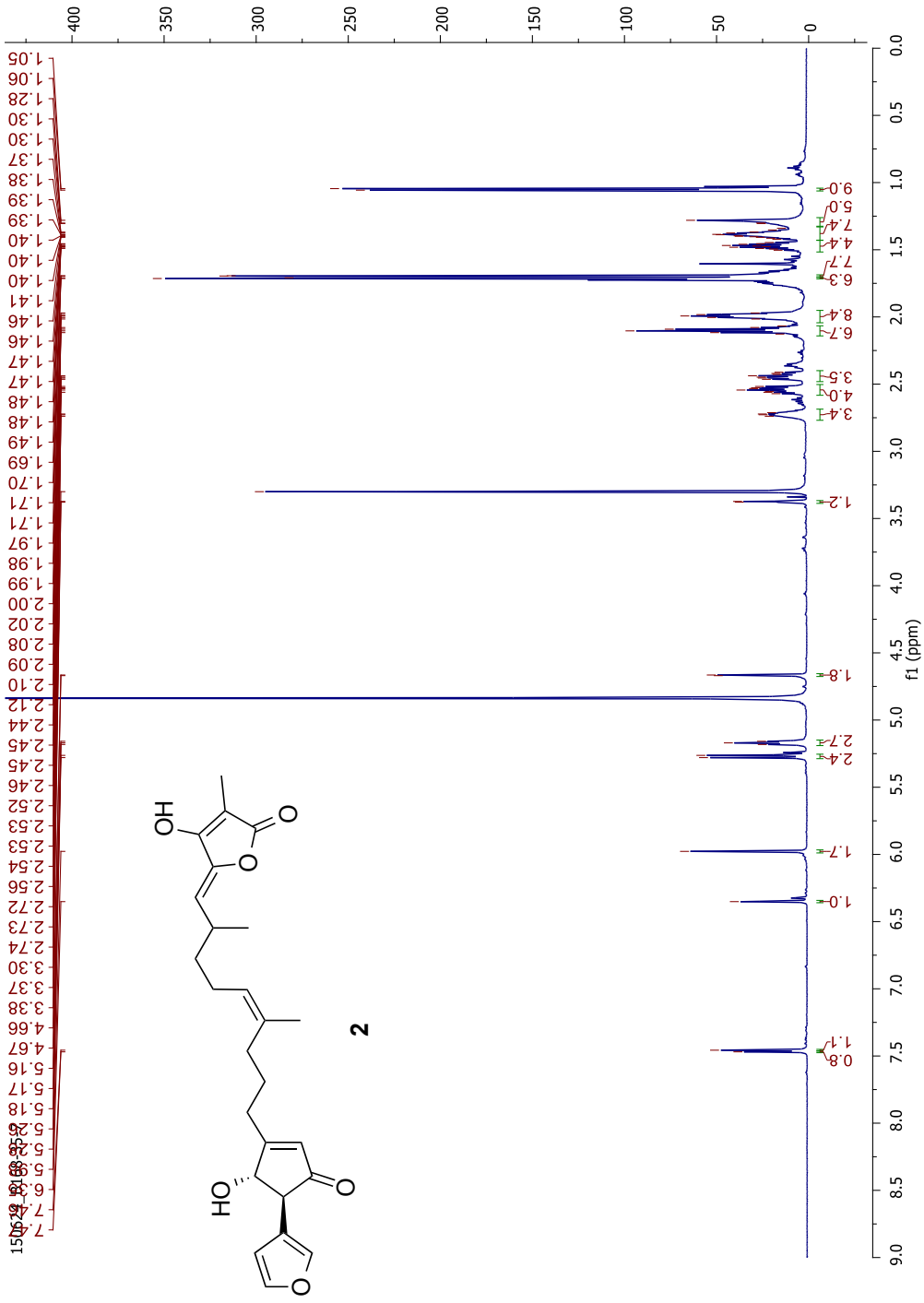

Figure 6. ^{1}H NMR spectrum of **2** in MeOH-d_4.

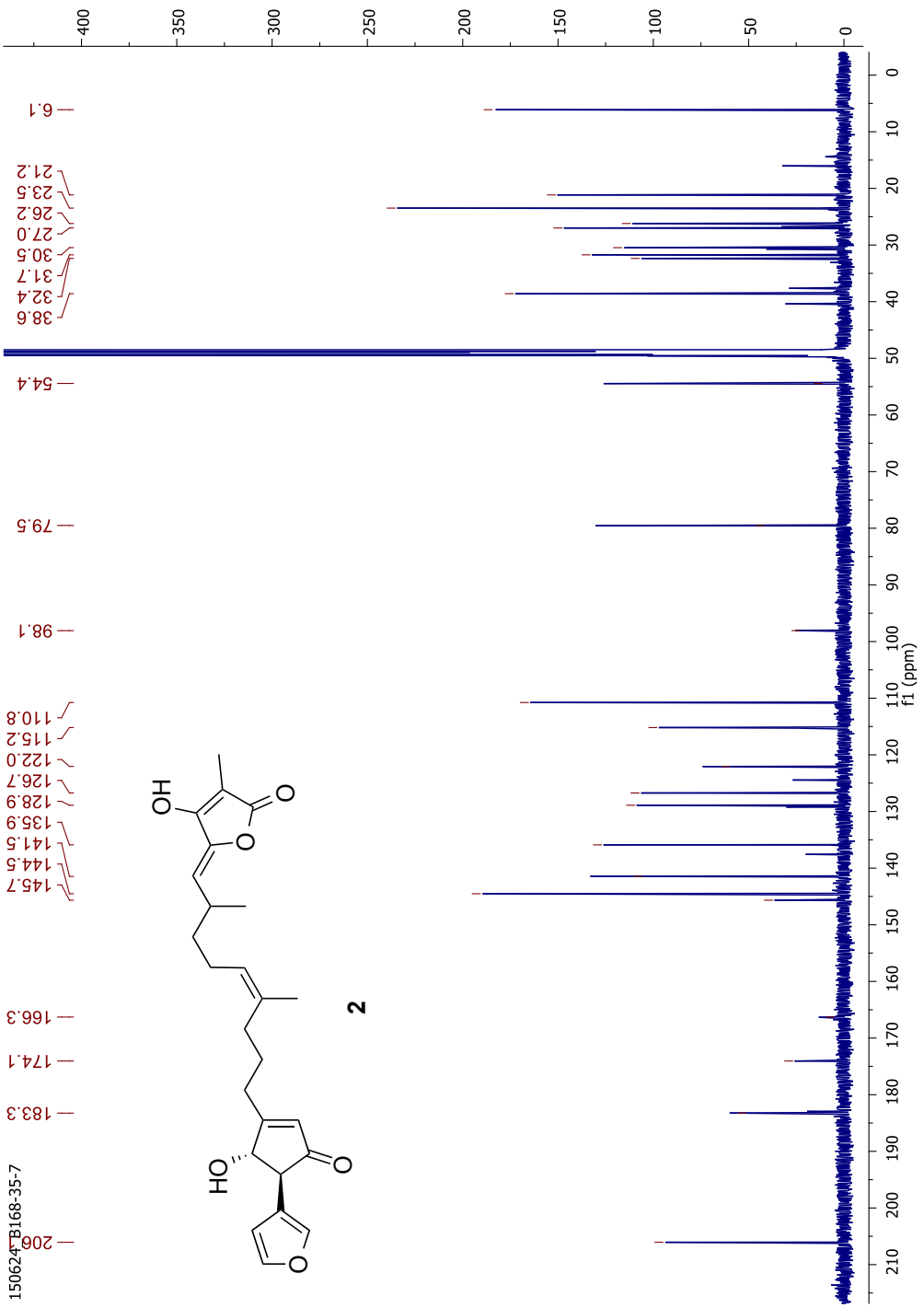

Figure S7. ^{1}H NMR spectrum of **2** in MeOH-d_4.

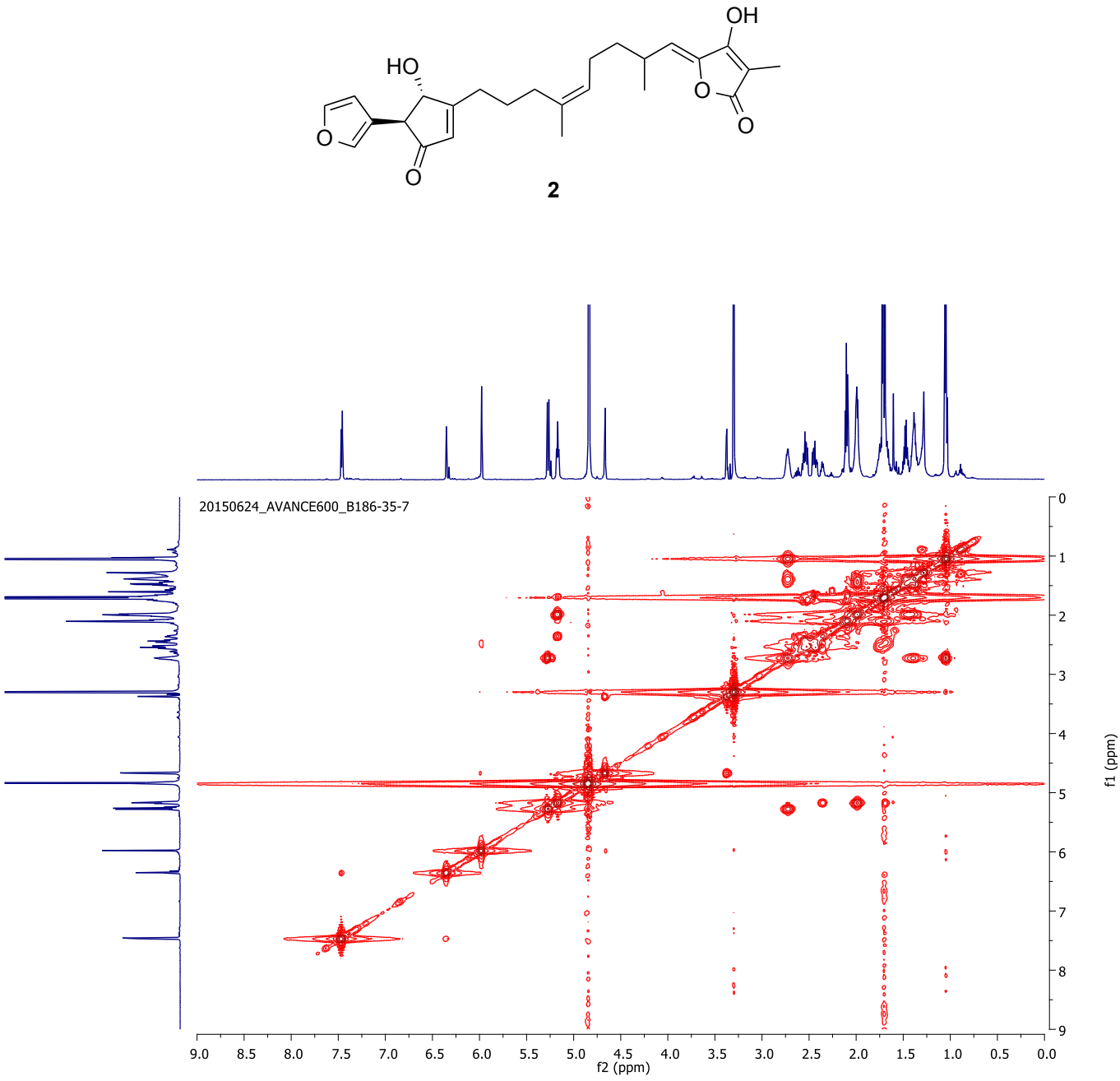

Figure S8. ^{1}H-^{1}H COSY spectrum of **2** in MeOH-d_4.

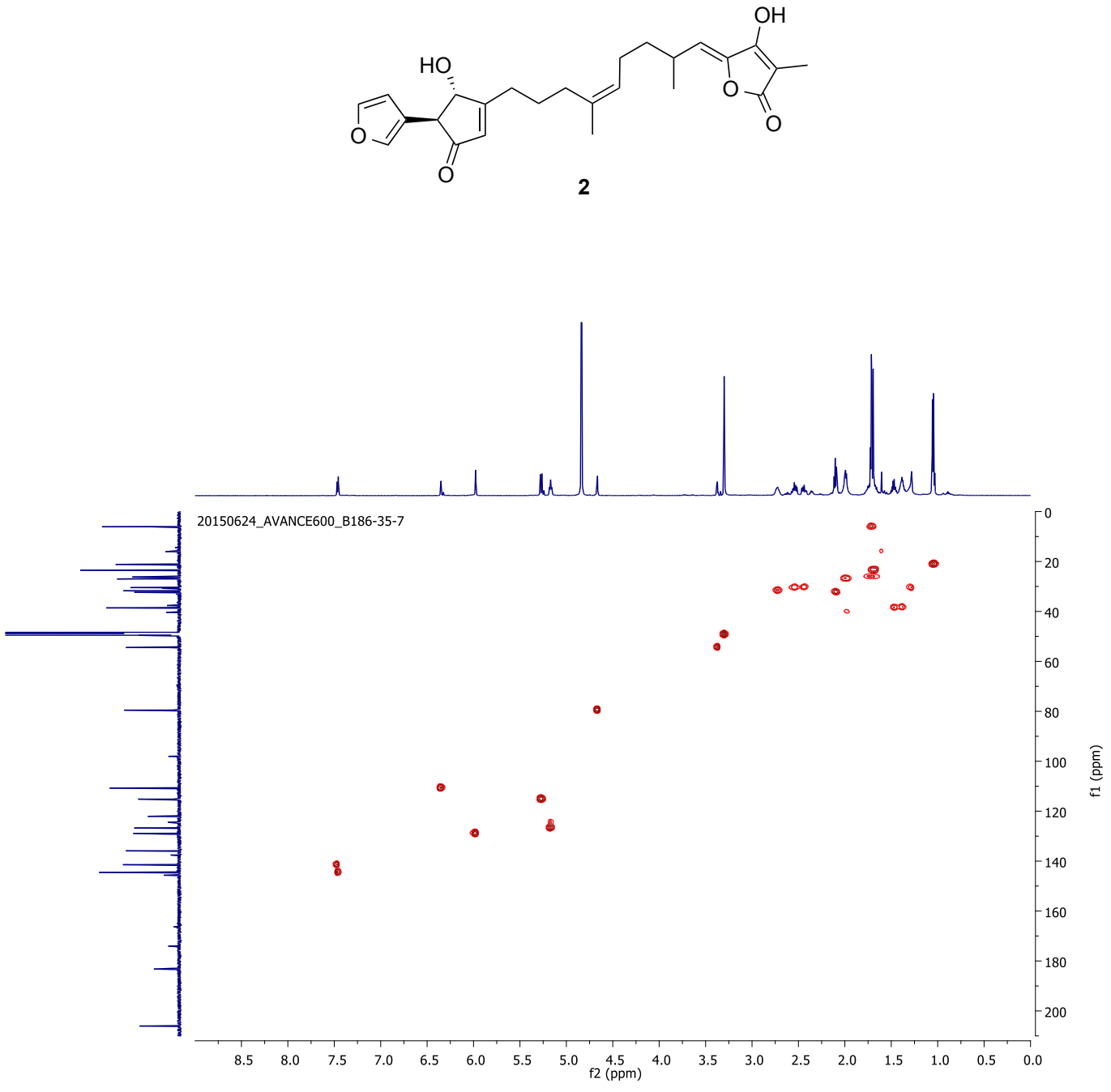

Figure S9. HSQC spectrum of **2** in MeOH-d_4.

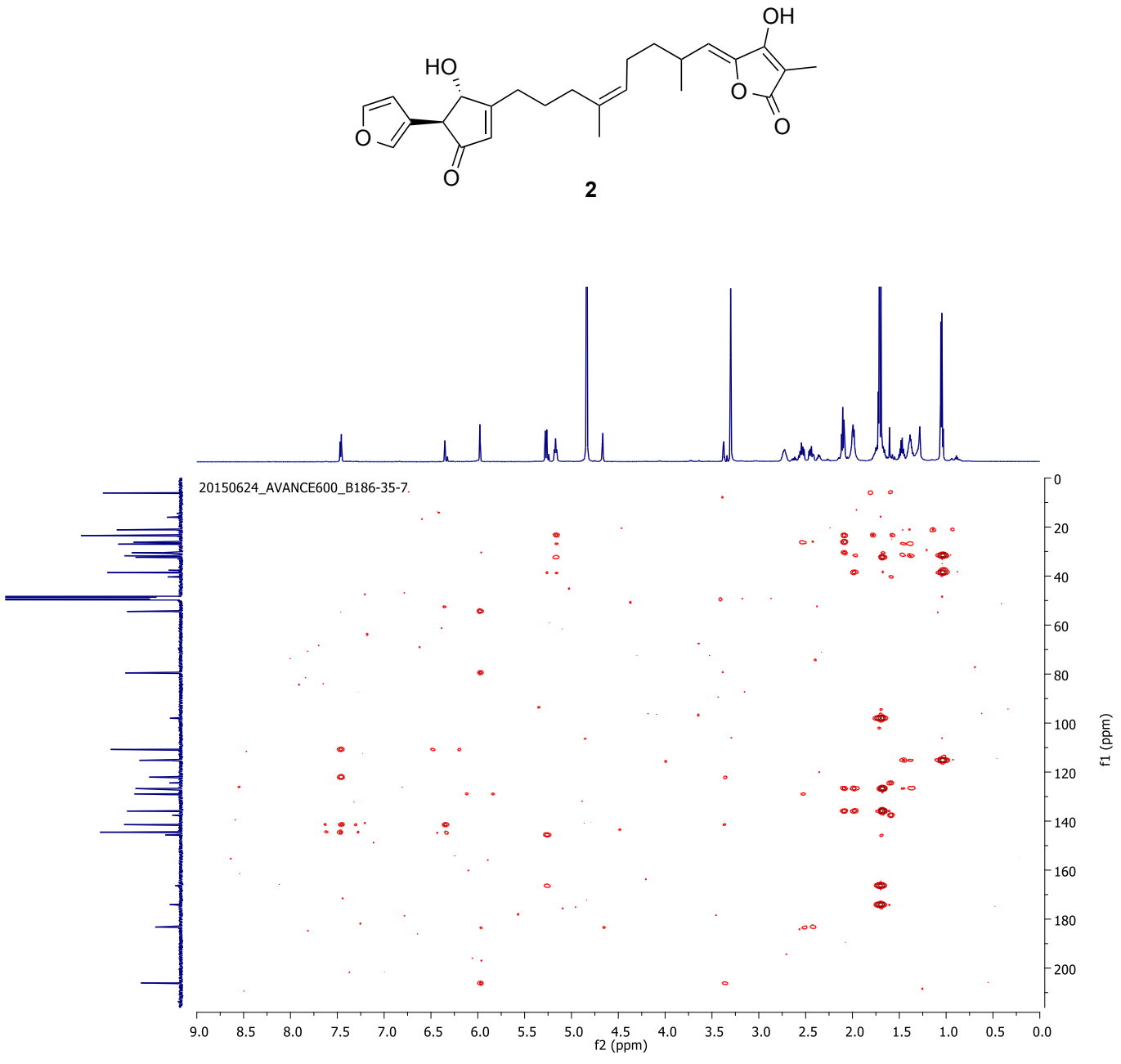

Figure S10. HMBC spectrum of **2** in MeOH-d_4.

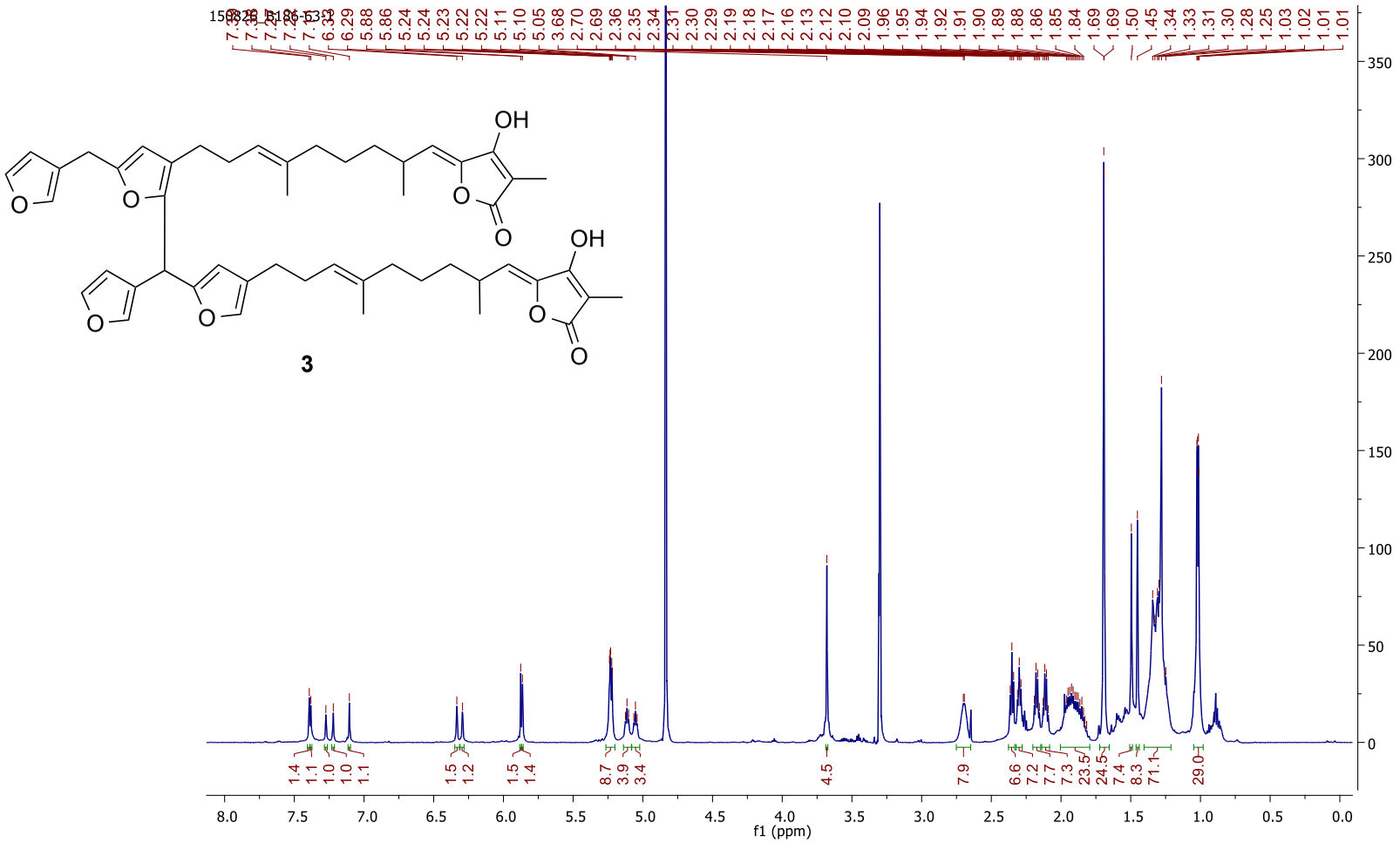

Figure S11. ^{1}H NMR spectrum of **3** in MeOH-d_4.

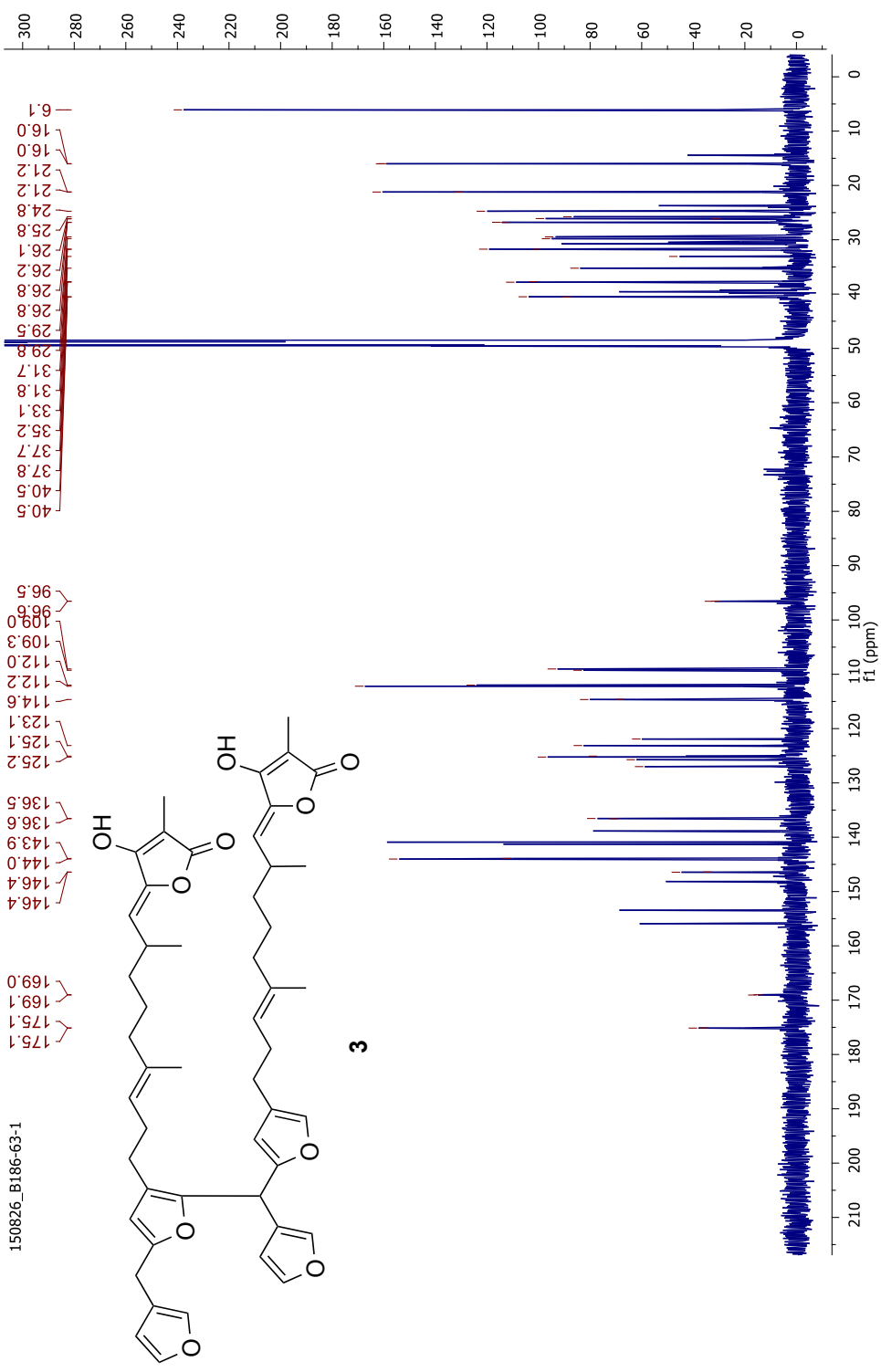

Figure S12. ^{13}C NMR spectrum of **3** in MeOH-d_4.

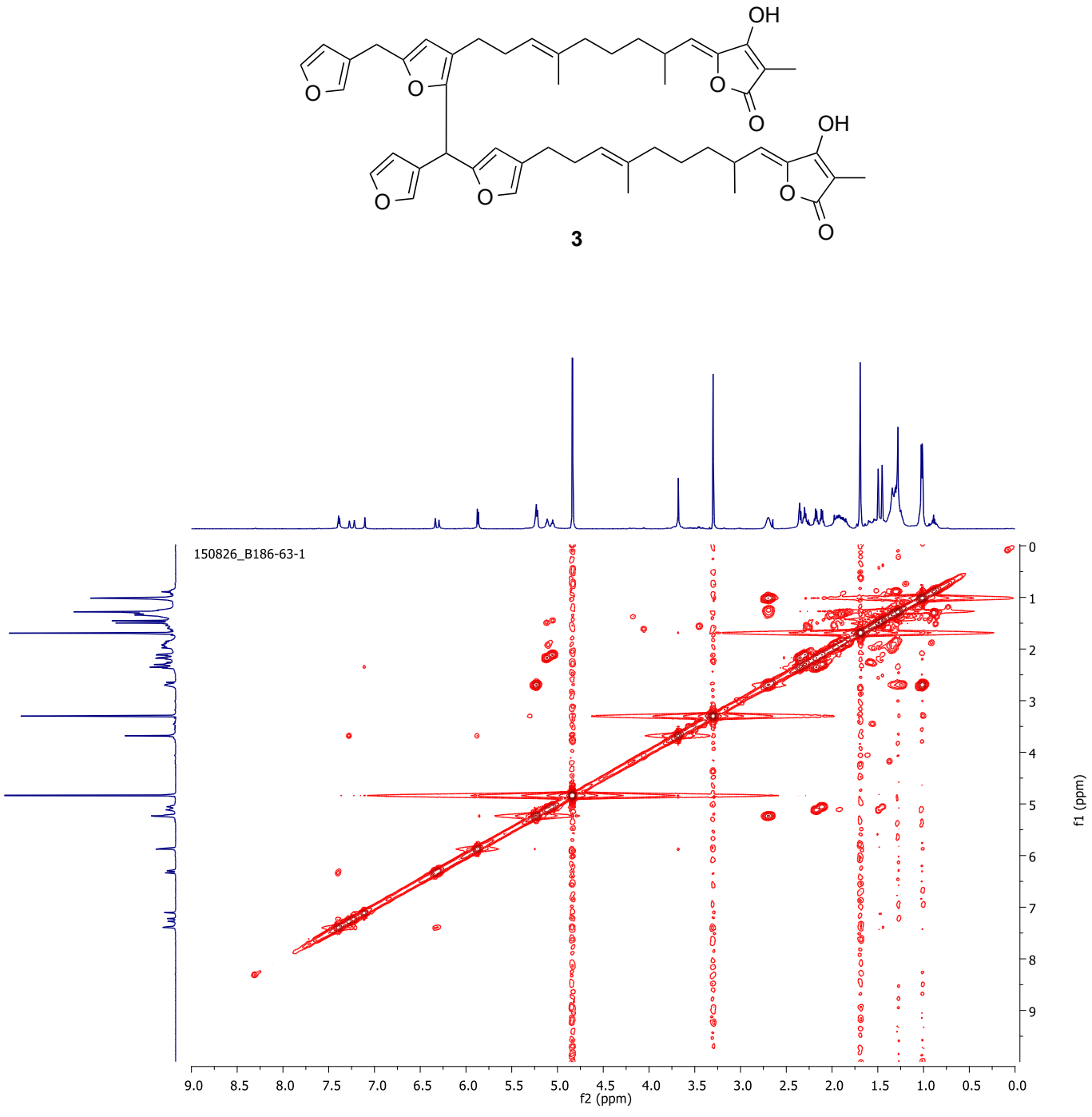

Figure S13. ^{1}H-^{1}H COSY spectrum of **3** in MeOH-d_4.

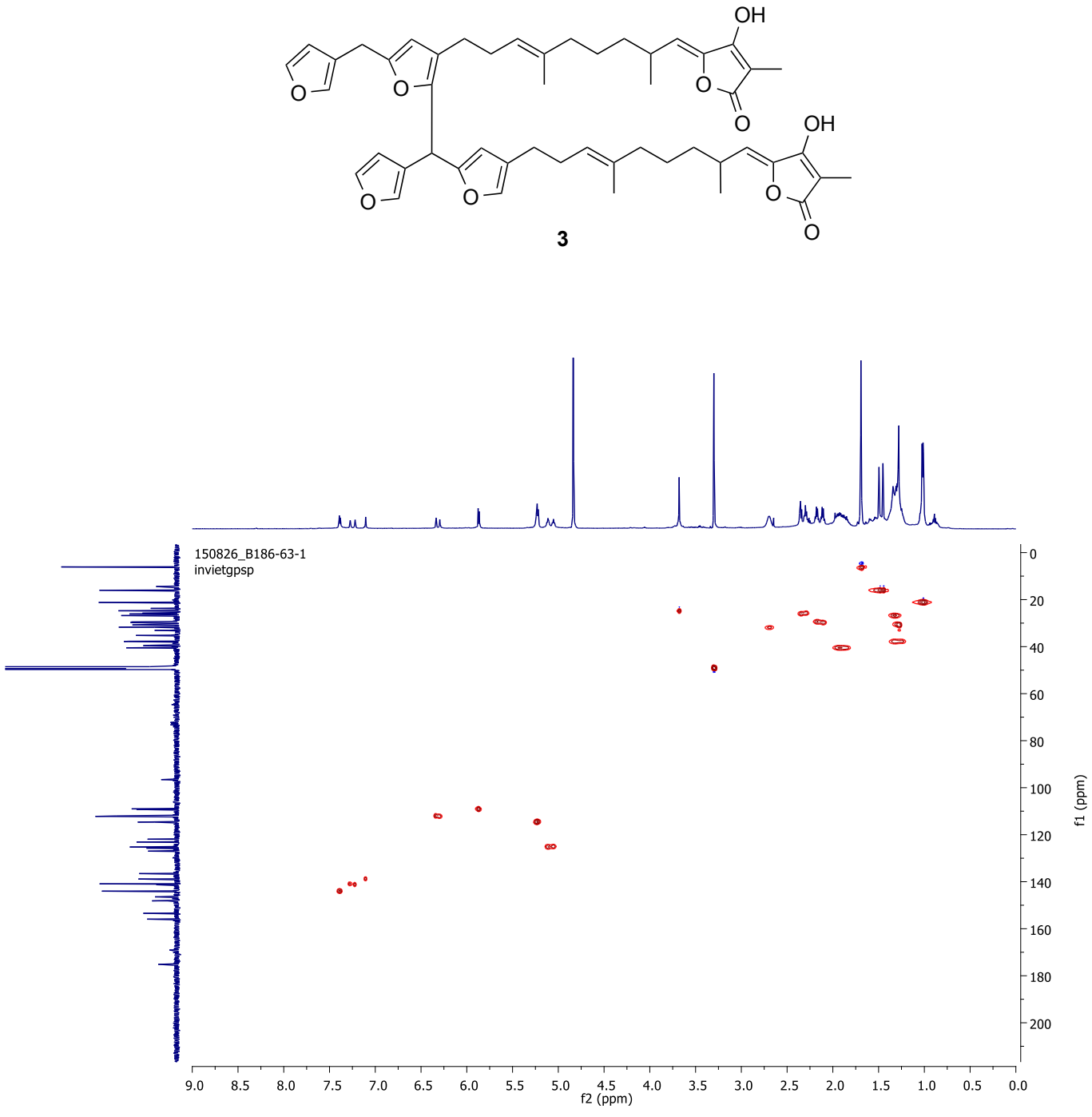

Figure S14. HSQC spectrum of **3** in MeOH-d_4.

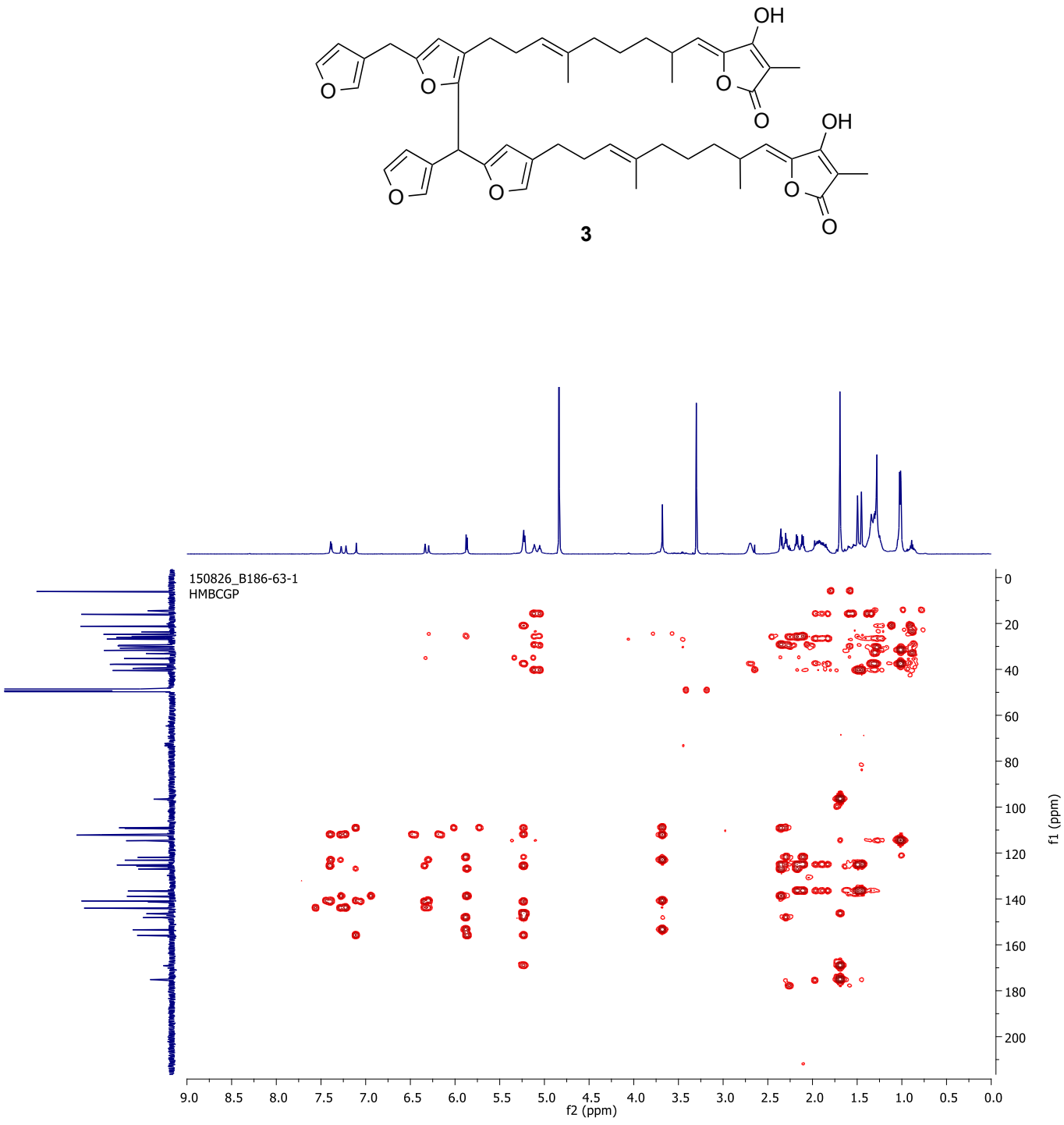

Figure S15. HMBC spectrum of **3** in MeOH-d_4.

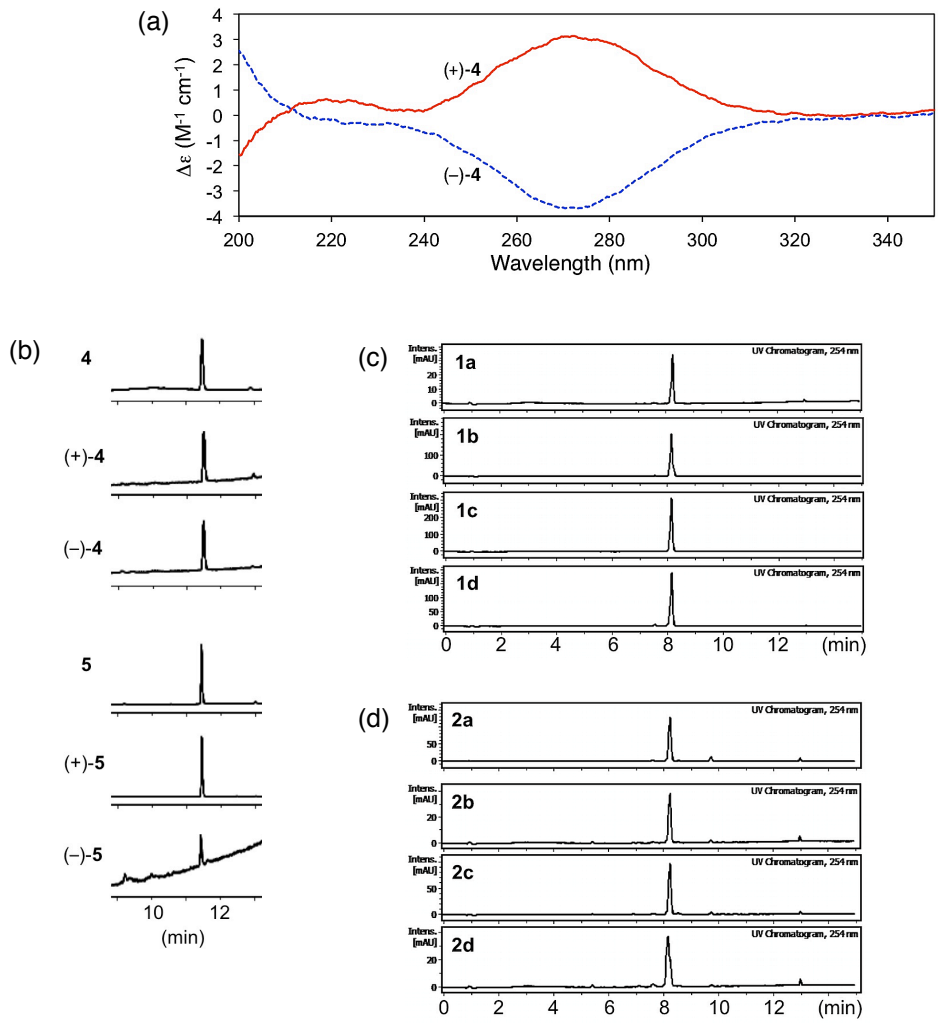

Figure S16. (a) ECD spectra of (+)- and (–)-**4**. (b) LC-ESI-MS chromatograms of **4** and **5** and their separated enantiomers with an ODS column extracted at 254 nm. (c) LC-ESI-MS chromatograms of **1a**–**1d** with an ODS column extracted at 254 nm. (d) LC-ESI-MS chromatograms of **2a**–**2d** with an ODS column extracted at 254 nm.

Figure S17. A picture of a *Psammocinia* sp. marine sponge.

Table S1. Observed ^{13}C Chemical Shifts (MeOH-d_4) for 1 and 2 and Calculated ^{13}C Chemical Shifts of the Simplified Isomers, 6 and 7.

No	**6**	**7**	**1**	**2**
1	140.9	139.6	144.5	144.5
2	117.0	120.3	110.7	110.8
3	111.8	110.4	122.1	122.1
4	141.1	140.5	141.4	141.4
5	46.1	53.6	54.4	54.5
6	204.4	199.9	206.1	206.1
7	129.6	129.9	129.2	128.9
8	179.4	175.8	182.9	183.2
9	73.9	80.5	79.0	79.5