Supporting Information

***Rec. Nat. Prod*. 19:2 (2025) 182-186**

A New Antibacterial Diterpene with a Fused 6-5-6-6 Ring System, Trichodermanin I, Isolated from the Soil-Derived Fungus *Trichoderma atroviride* YD-13

Liang Hong [1, #], Rui Chen [, #], Linsa Zhou[3,*] and Jie Lin [2,*]

[1]*Department of Infectious Diseases, The Third Affiliated Hospital of Wenzhou Medical University (Ruian People's Hospital), Ruian 325200, China*

[2]*Department of Pharmacy, The Third Affiliated Hospital of Wenzhou Medical University (Ruian People's Hospital), Ruian 325200, China*

[3]*Department of Plastic and Burns Surgery, The Second Affiliated Hospital of Shantou University Medical College, Shantou 515041, China*

Table of Contents **Page**

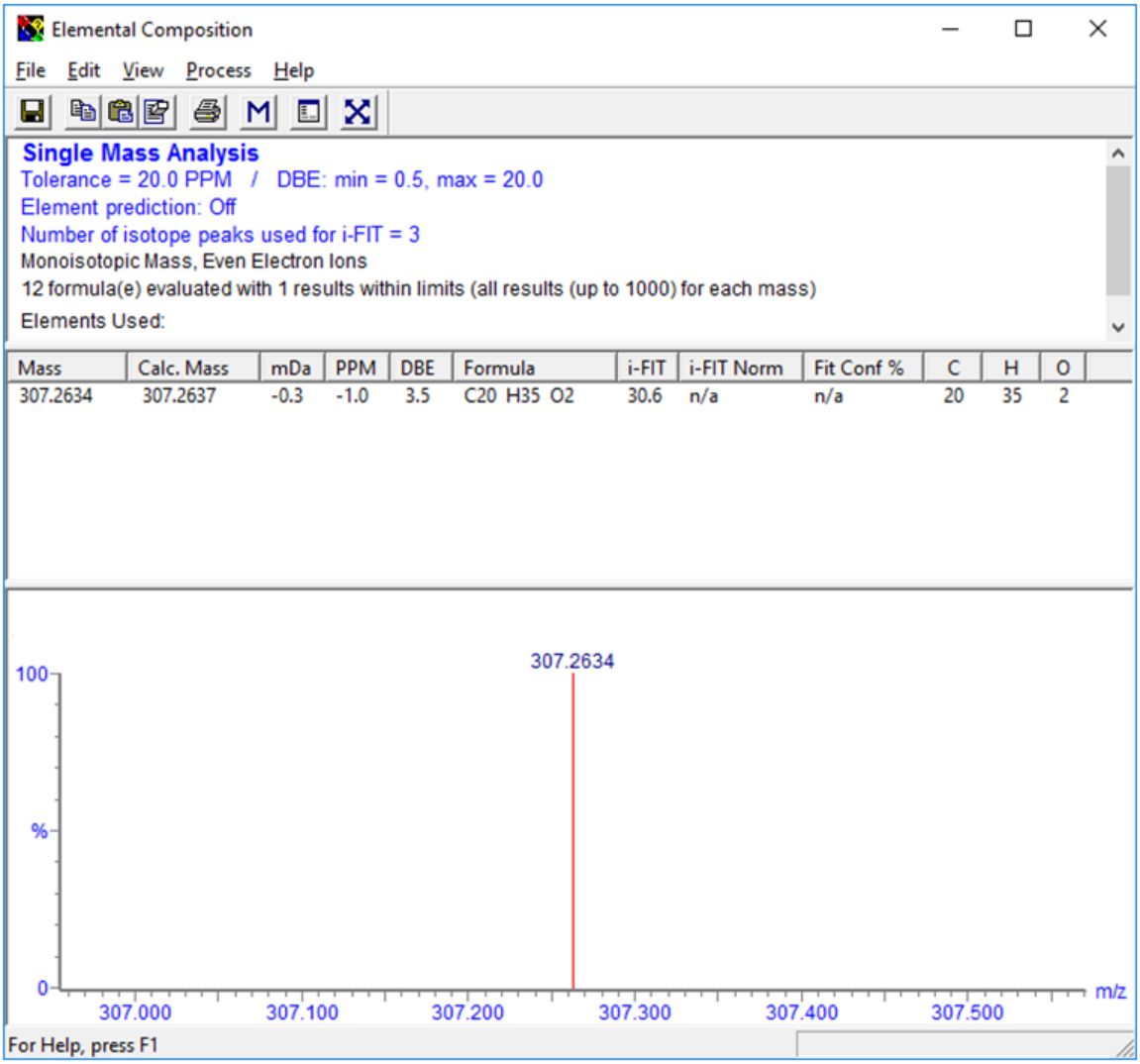


Figure S1: HRESIMS spectrum of **1**

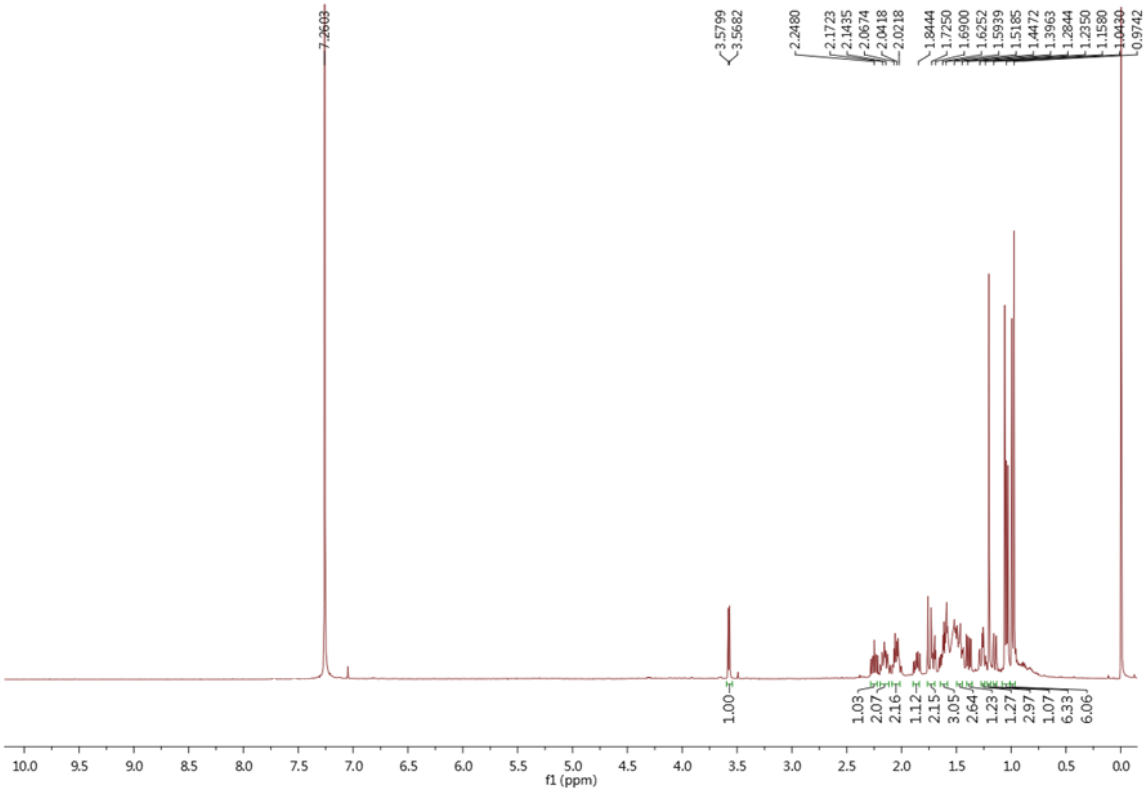


Figure S2: ^{1}H-NMR (500 MHz, $CDCl_3$) spectrum of **1**

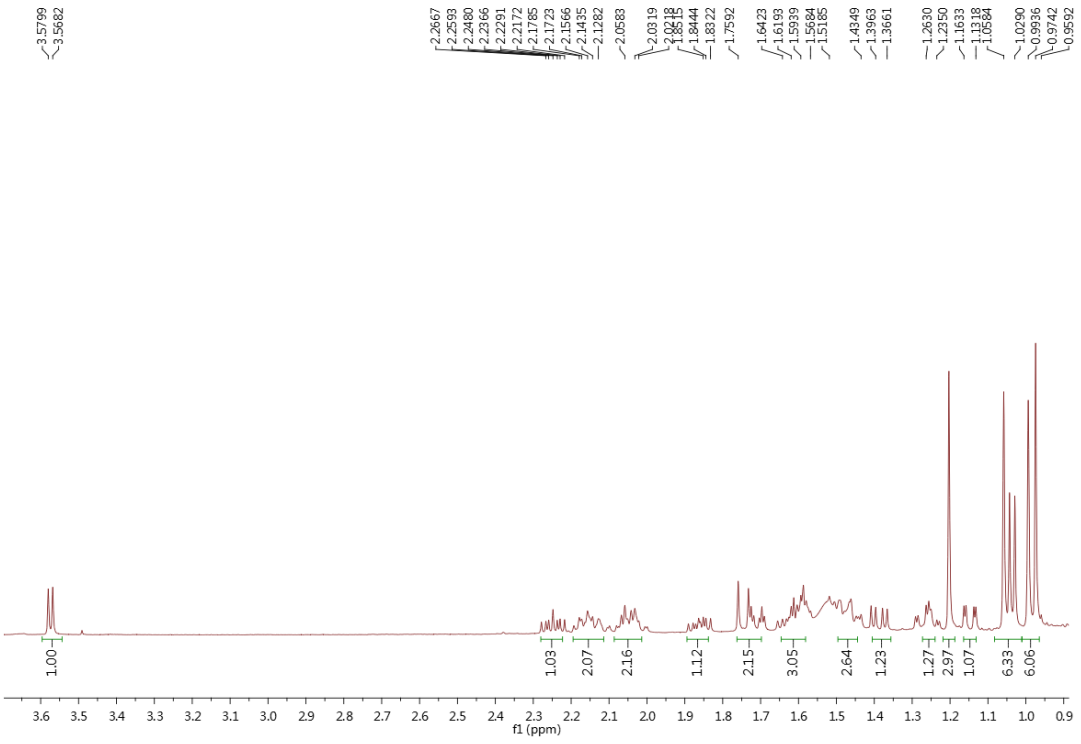


Figure S3: Enlarged ^{1}H-NMR (500 MHz, $CDCl_3$) spectrum of **1**

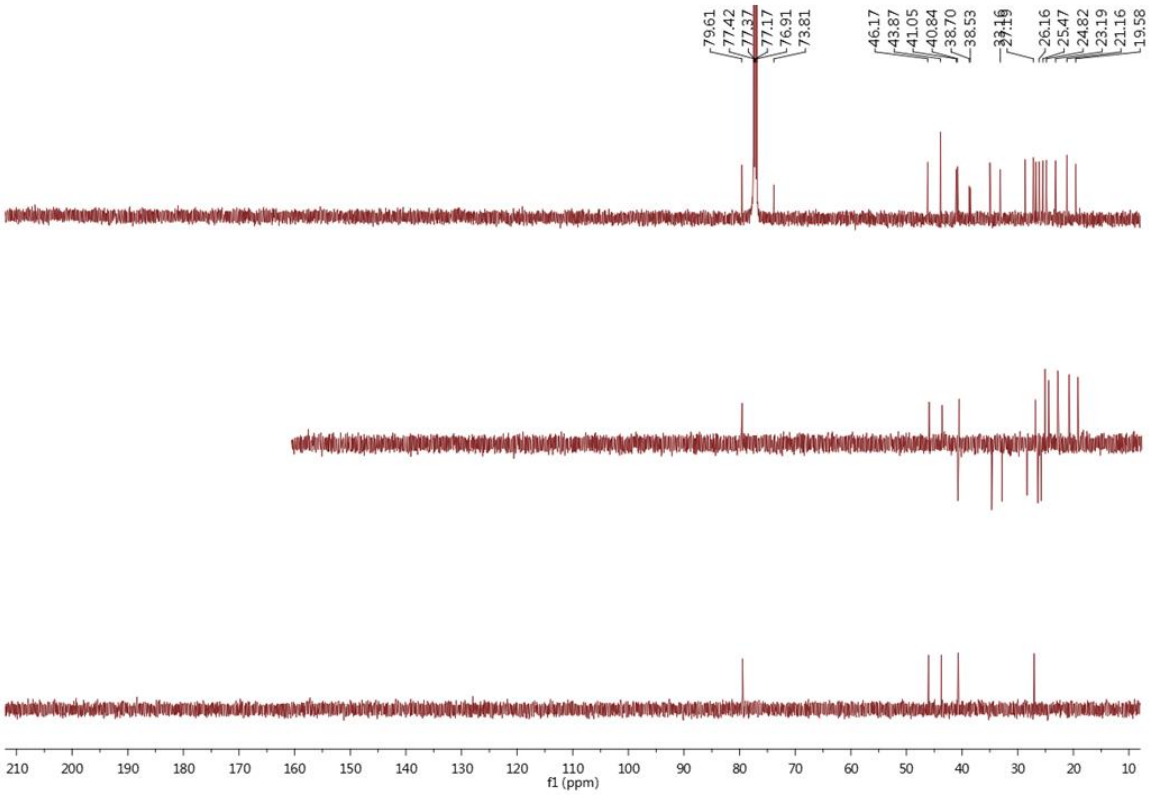


Figure S4: ^{13}C-NMR and DEPT (125 MHz, $CDCl_3$) spectra of **1**

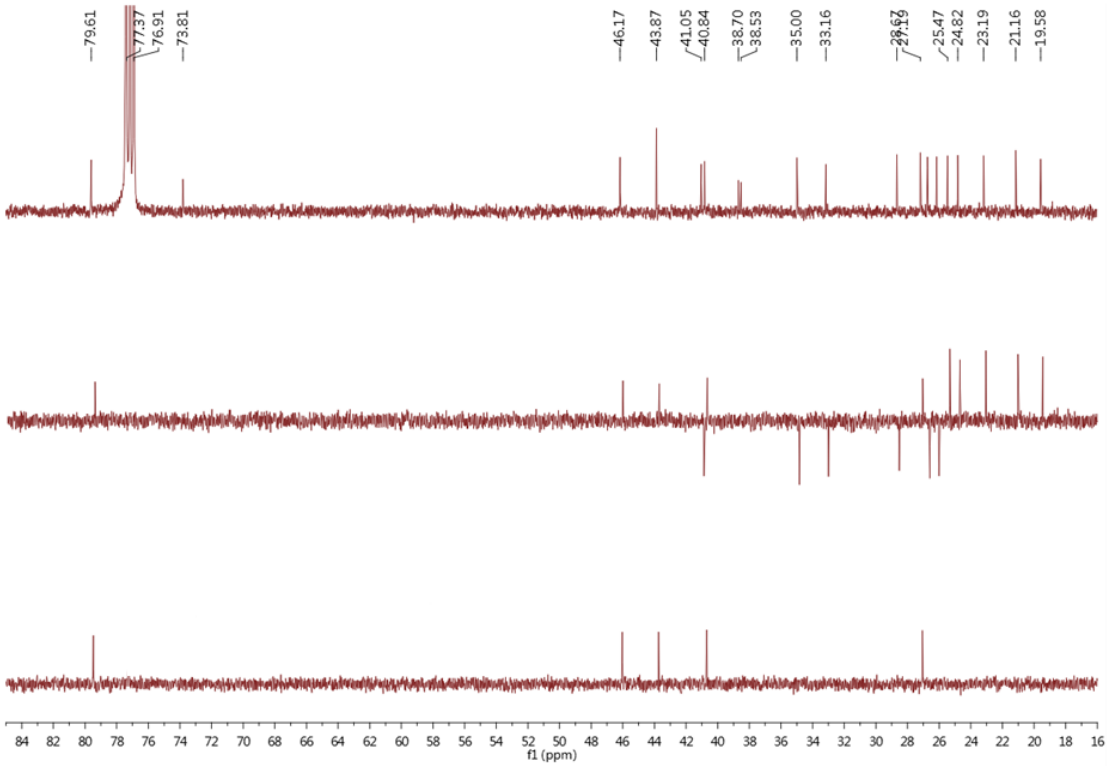


Figure S5: Enlarged ^{13}C-NMR and DEPT (125 MHz, $CDCl_3$) spectra of **1**

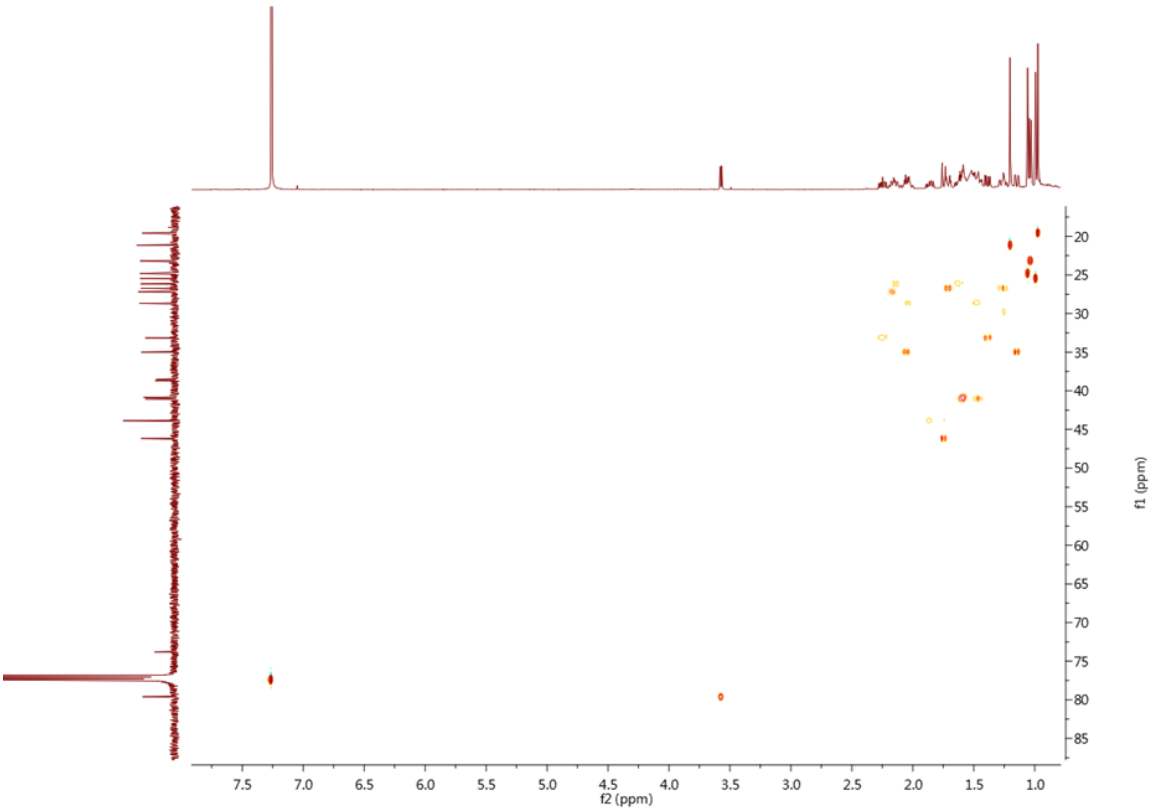


Figure S6: HSQC spectrum of **1**

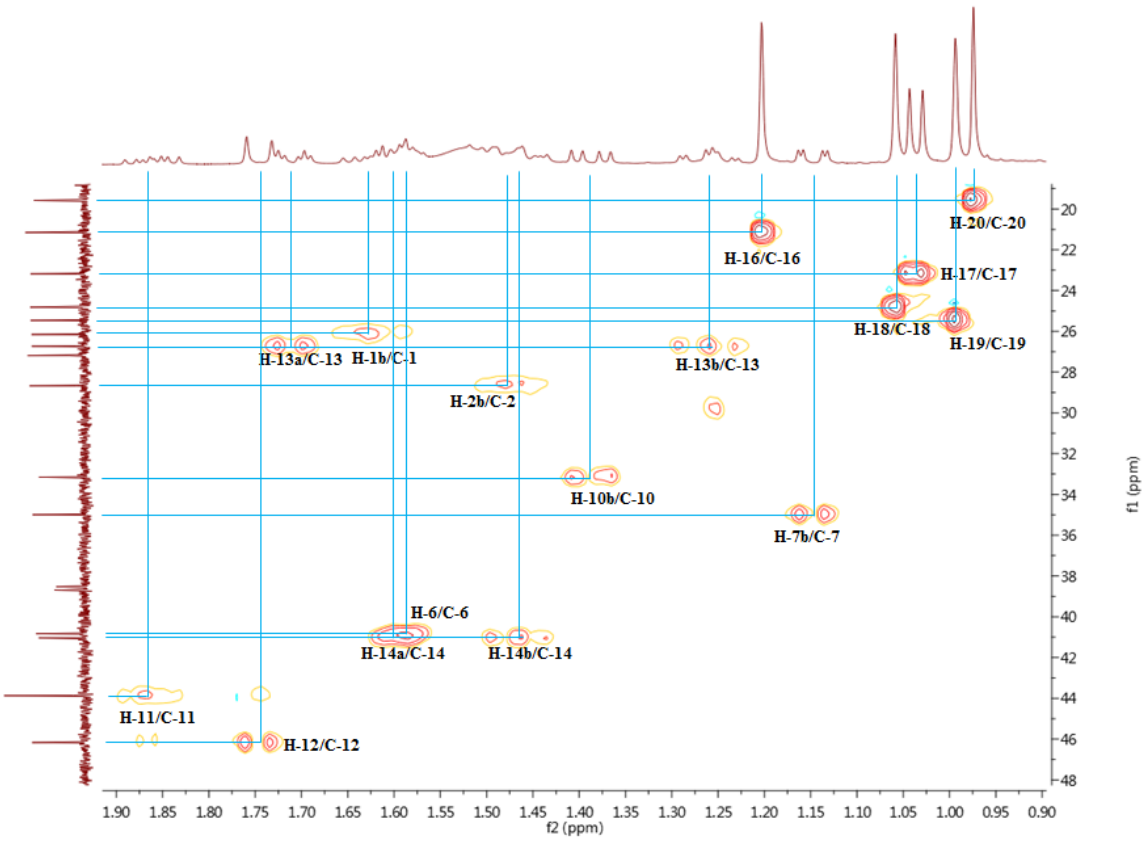


Figure S7: Enlarged HSQC spectrum of **1**

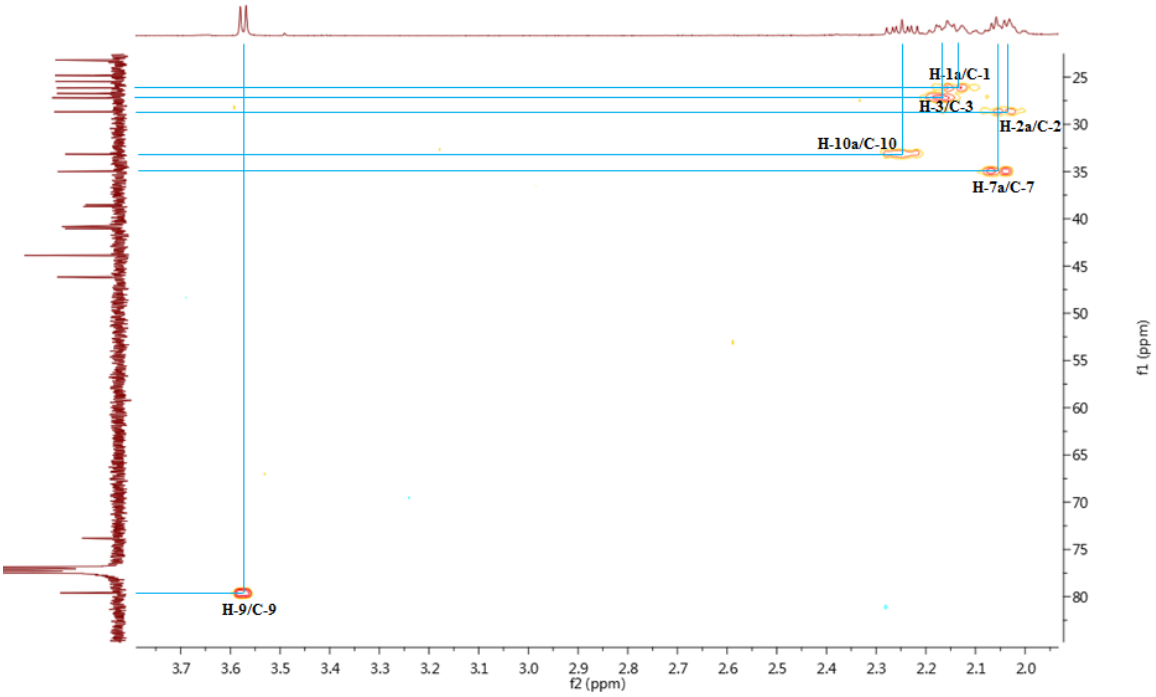


Figure S8: Enlarged HSQC spectrum of **1**

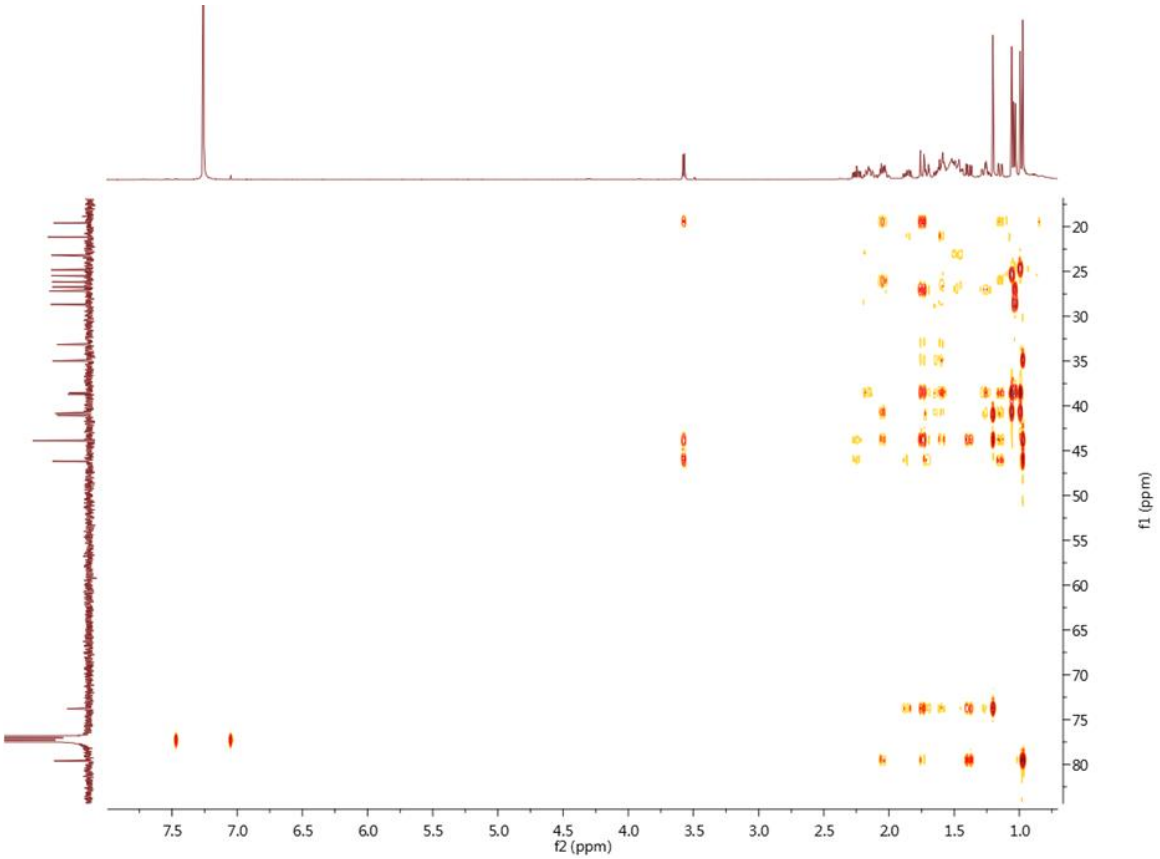


Figure S9: HMBC spectrum of **1**

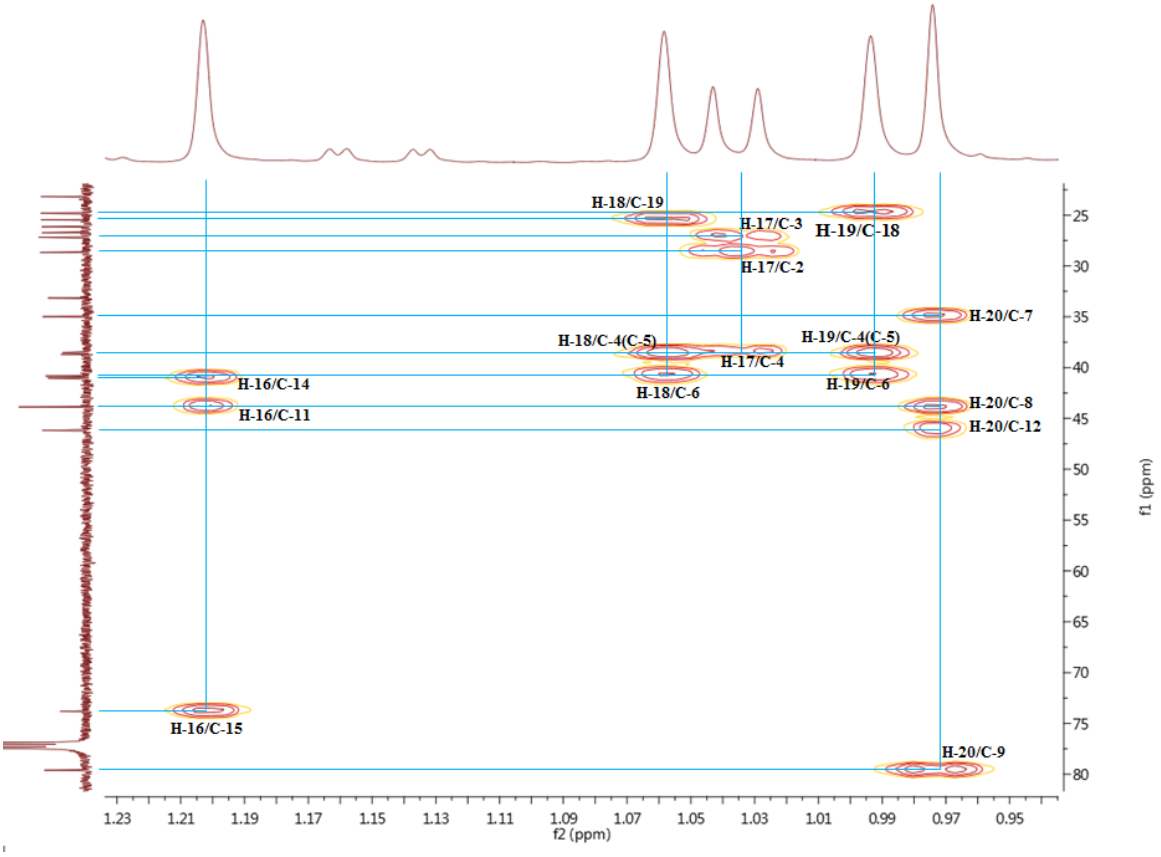


Figure S10: Enlarged HMBC spectrum of **1**

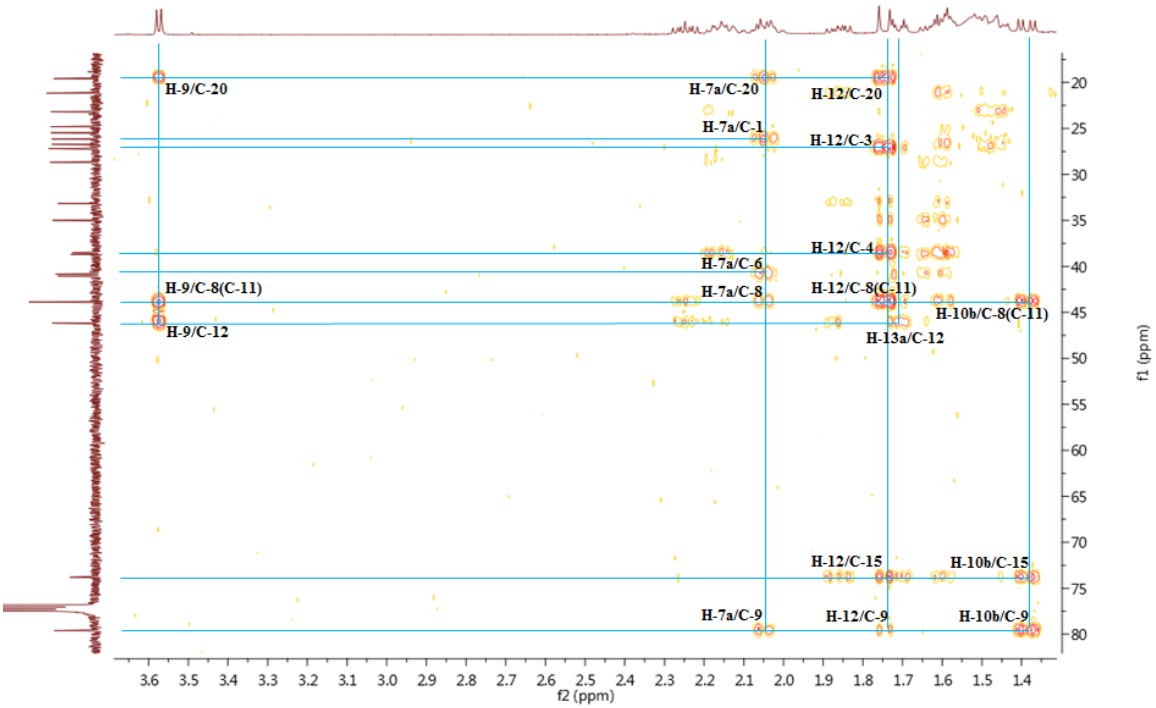


Figure S11: Enlarged HMBC spectrum of **1**

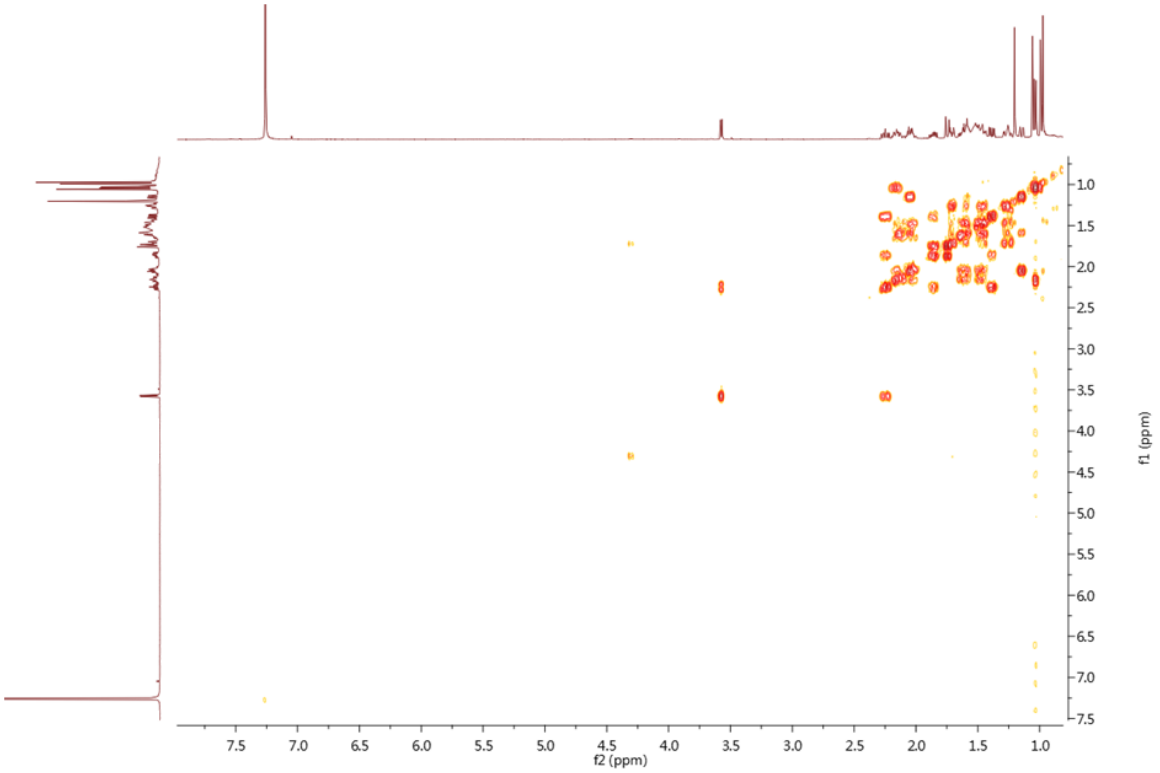


Figure S12: ^{1}H-^{1}H COSY spectrum of **1**

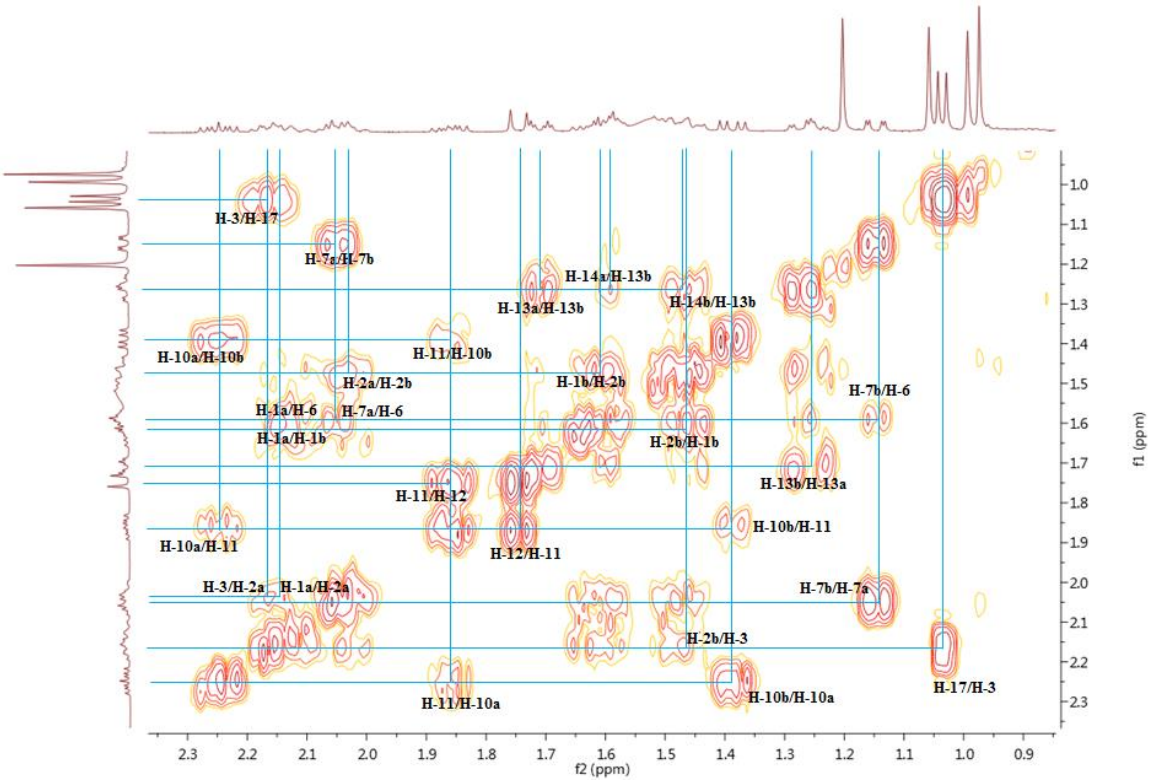


Figure S13: Enlarged ^{1}H-^{1}H COSY spectrum of **1**

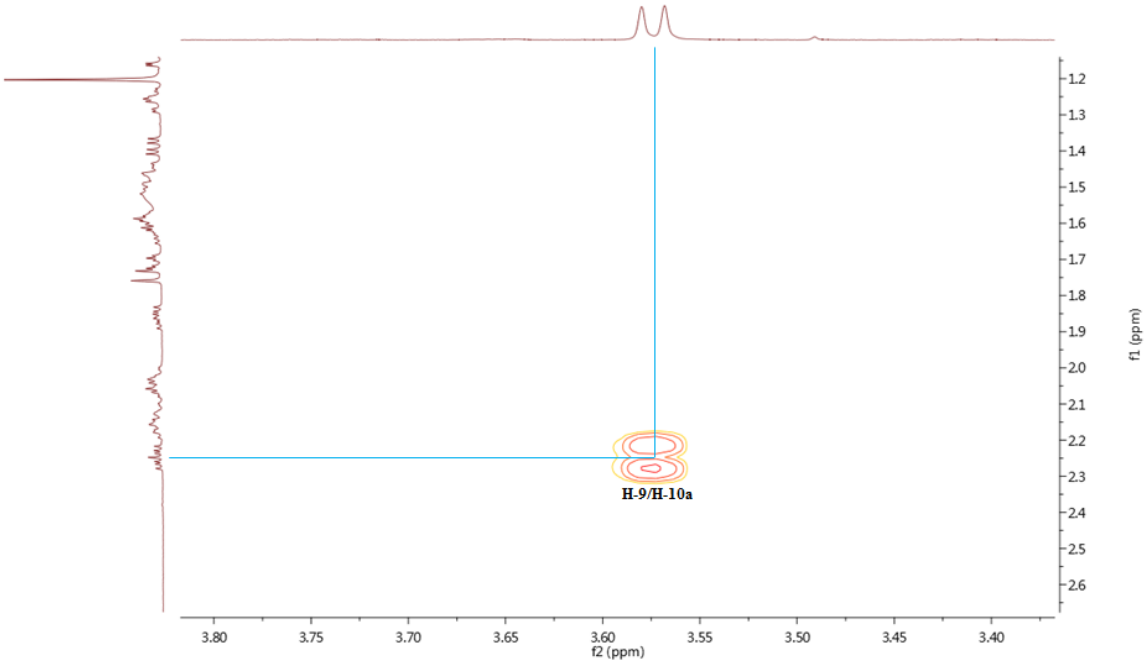


Figure S14: Enlarged ^{1}H-^{1}H COSY spectrum of **1**

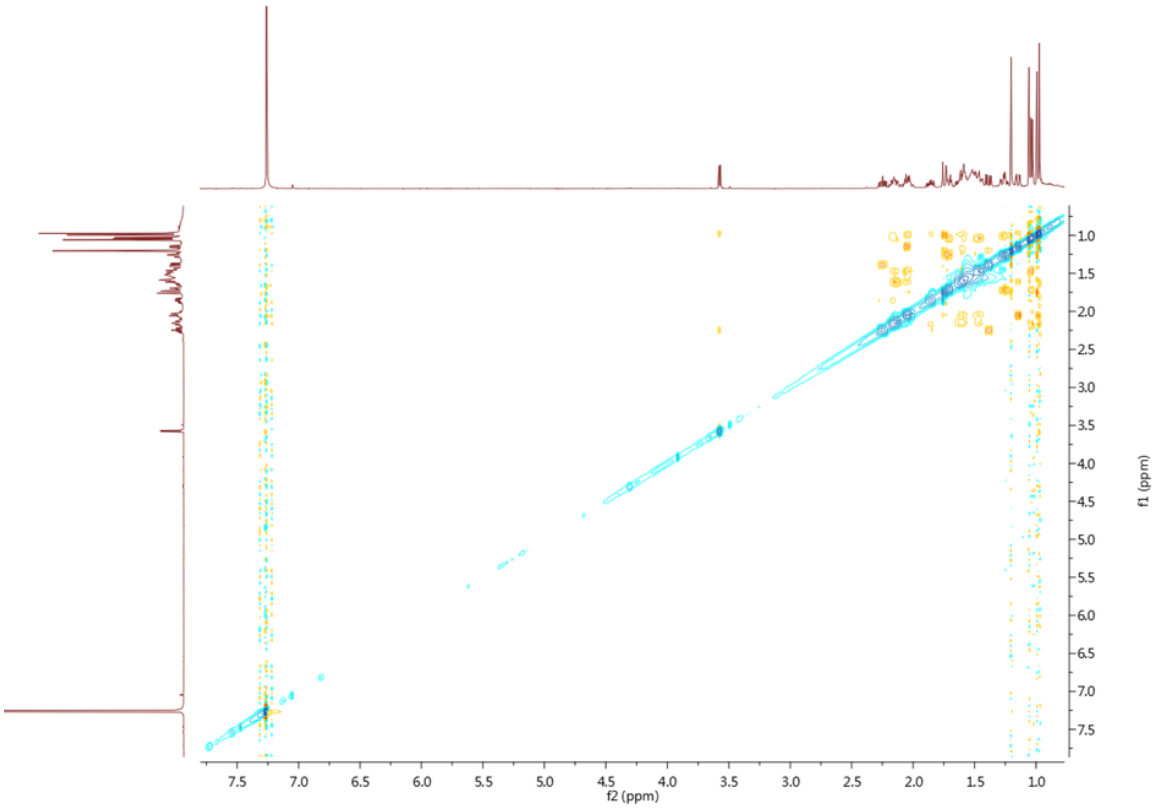


Figure S15: NOESY spectrum of **1**

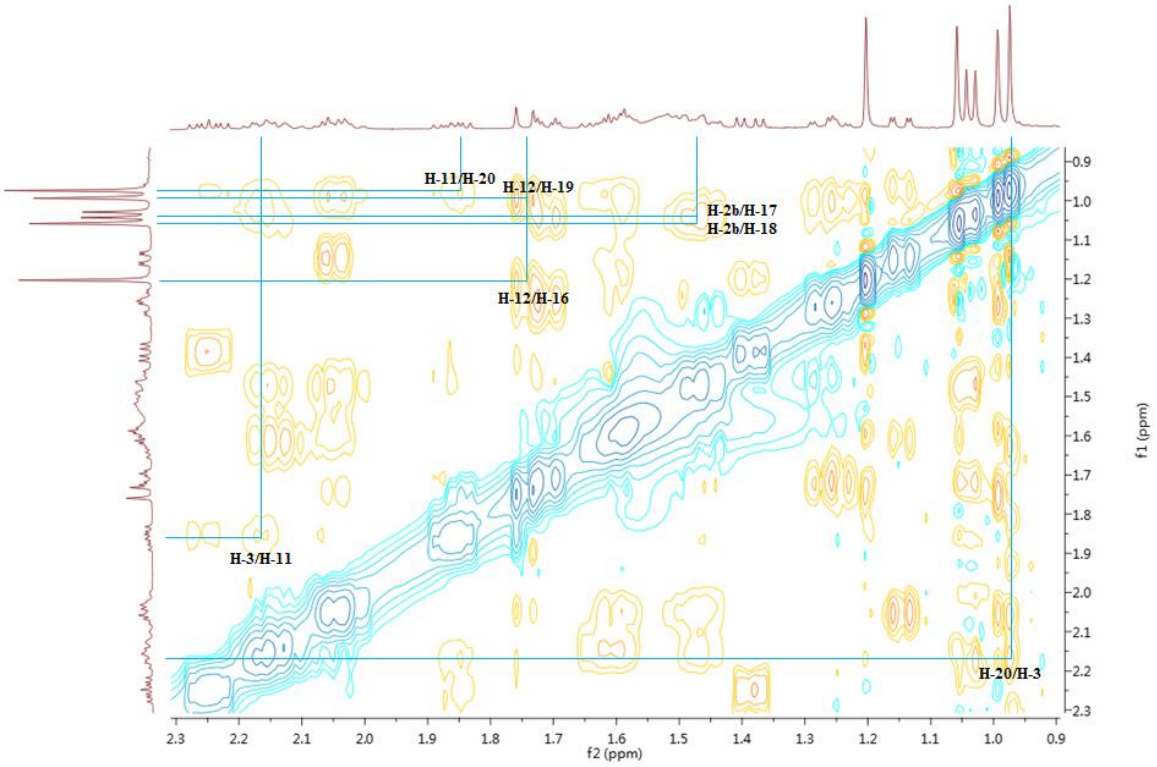


Figure S16: Enlarged NOESY spectrum of **1**

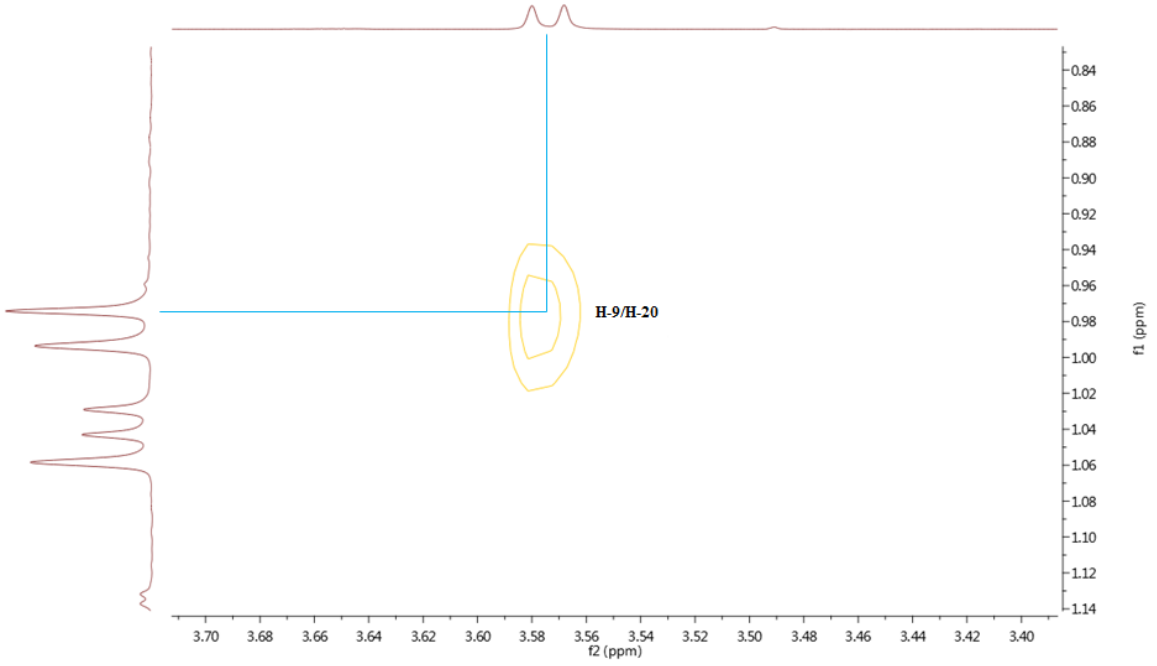


Figure S17: Enlarged NOESY spectrum of **1**

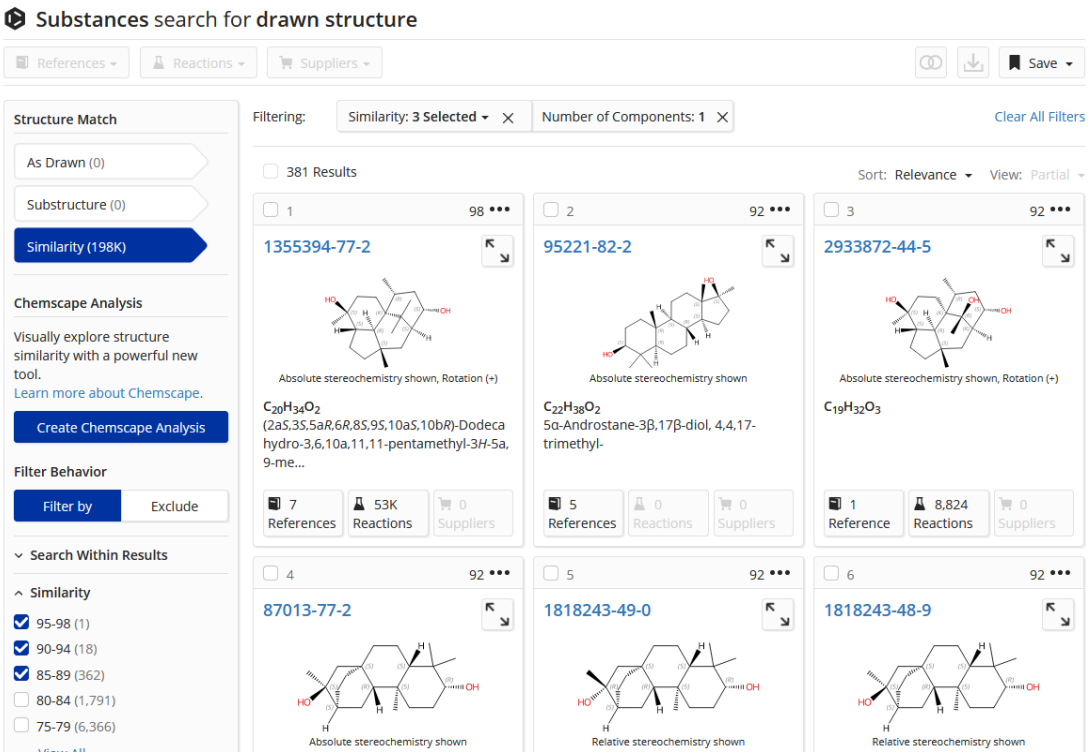
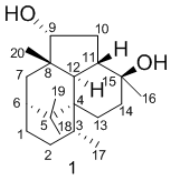
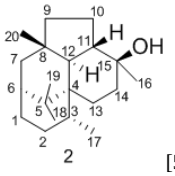
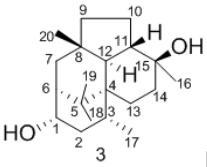
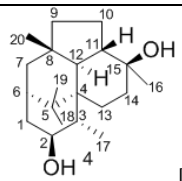


Figure S18: Scifinder search results of **1**

Table S1: ^{1}H and ^{13}C NMR data of compounds **1-4**

Pos	 1		 2 [5]		 3 [5]		 4 [8]	
	δ_H (J in Hz)	δ_C, type	δ_H (J in Hz)	δ_C, type	δ_H (J in Hz)	δ_C, type	δ_H (J in Hz)	δ_C, type
1a	2.14, m	26.2, CH_2	2.09, m	25.7, CH_2	4.18, dd	72.7, CH	2.54, ddd	36.5, CH_2
1b	1.63, m		1.61, m				1.68, m	
2a	2.04, m	28.7, CH_2	2.00, dddd	28.8, CH_2	2.61, ddd	42.3, CH_2	4.30, ddd	74.2, CH
2b	1.47, m		1.46, m		1.43, ddd			
3	2.17, m	27.2, CH	2.11, m	26.6, CH	2.01, ddq	27.1, CH	1.98, qd	37.9, CH
4		38.5, C		38.8, C		39.3, C		40.8, C
5		38.7, C		38.7, C		39.6, C		39.0, C
6	1.59, m	40.8, CH	1.48, m	41.1, CH	1.42, m	52.8, CH	1.62, m	41.8, CH
7a	2.05, m	35.0, CH_2	1.67, dd	43.0, CH_2	1.74, dd	41.6, CH_2	1.71, dd	42.5, CH_2
7b	1.15, dd		1.49, m		1.64, dd		1.56, dd	
8		43.9, C		39.2, C		39.8, C		39.7, C
9a	3.57, d	79.6, CH	1.41, d	43.9, CH_2	1.43, m	43.9, CH_2	1.02, m	43.9, CH_2
9b			1.01, d		1.02, m		1.43, m	
10a	2.25, ddd	33.2, CH_2	1.78, m	21.6, CH_2	1.79, m	22.2, CH_2	1.60, m	21.6, CH_2
10b	1.39, dd		1.56, m		1.58, m		1.81, m	
11	1.86, ddd	43.9, CH	1.87, ddd	44.4, CH	1.81, ddd	44.6, CH	1.85, m	44.4, CH
12	1.74, d	46.2, CH	1.27, d	52.0, CH	1.28, d	52.2, CH	1.30, d	51.9, CH
13a	1.71, dt	26.7, CH_2	1.68, m	26.4, CH_2	1.74, ddd	26.8, CH_2	1.18, ddd	26.4, CH_2
13b	1.26, ddd		1.21, ddd		1.24, ddd		1.68, m	
14a	1.59, m	41.0, CH_2	1.57, ddd	40.8, CH_2	1.62, ddd	41.4, CH_2	1.62, m	41.1, CH_2
14b	1.46, m		1.44, m		1.45, m		1.46, ddd	
15		73.8, C		73.9, C		73.8, C		73.8, C
16	1.20, s	21.2, CH_3	1.17, s	20.5, CH_3	1.18, s	21.3, CH_3	1.18, s	20.4, CH_3
17	1.04, d	23.2, CH_3	1.02, d	22.9, CH_3	1.07, d	23.1, CH_3	1.19, s	20.4, CH_3
18	1.06, s	24.8, CH_3	1.05, s	24.6, CH_3	0.98, s	26.6, CH_3	0.95, s	25.3, CH_3
19	0.99, s	25.5, CH_3	0.94, s	25.6, CH_3	1.13, s	25.6, CH_3	0.96, s	25.4, CH_3
20	0.97, s	19.6, CH_3	1.05, s	19.9, CH_3	0.91, d	20.5, CH_3	1.13, s	20.3, CH_3