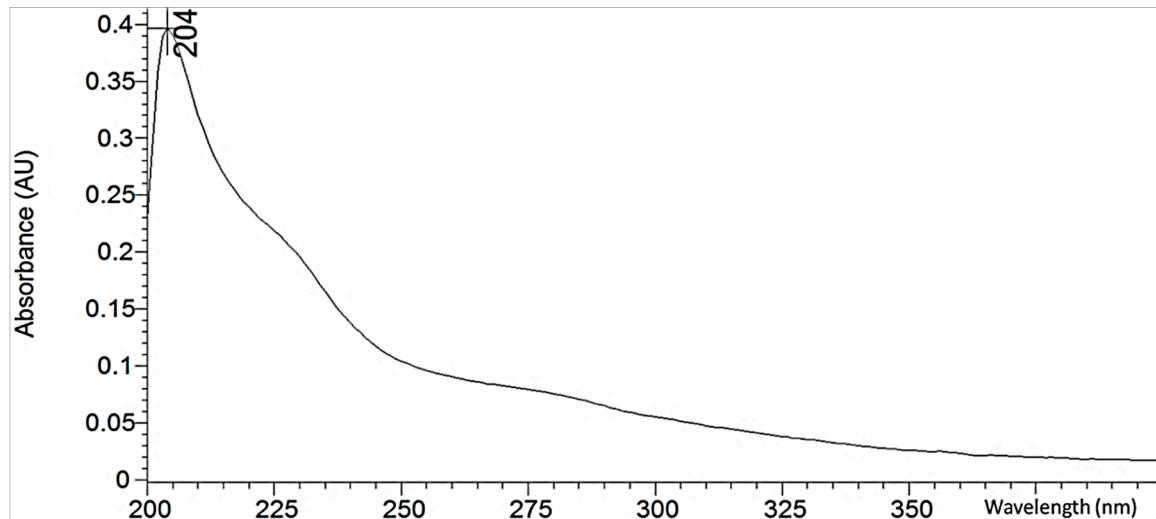


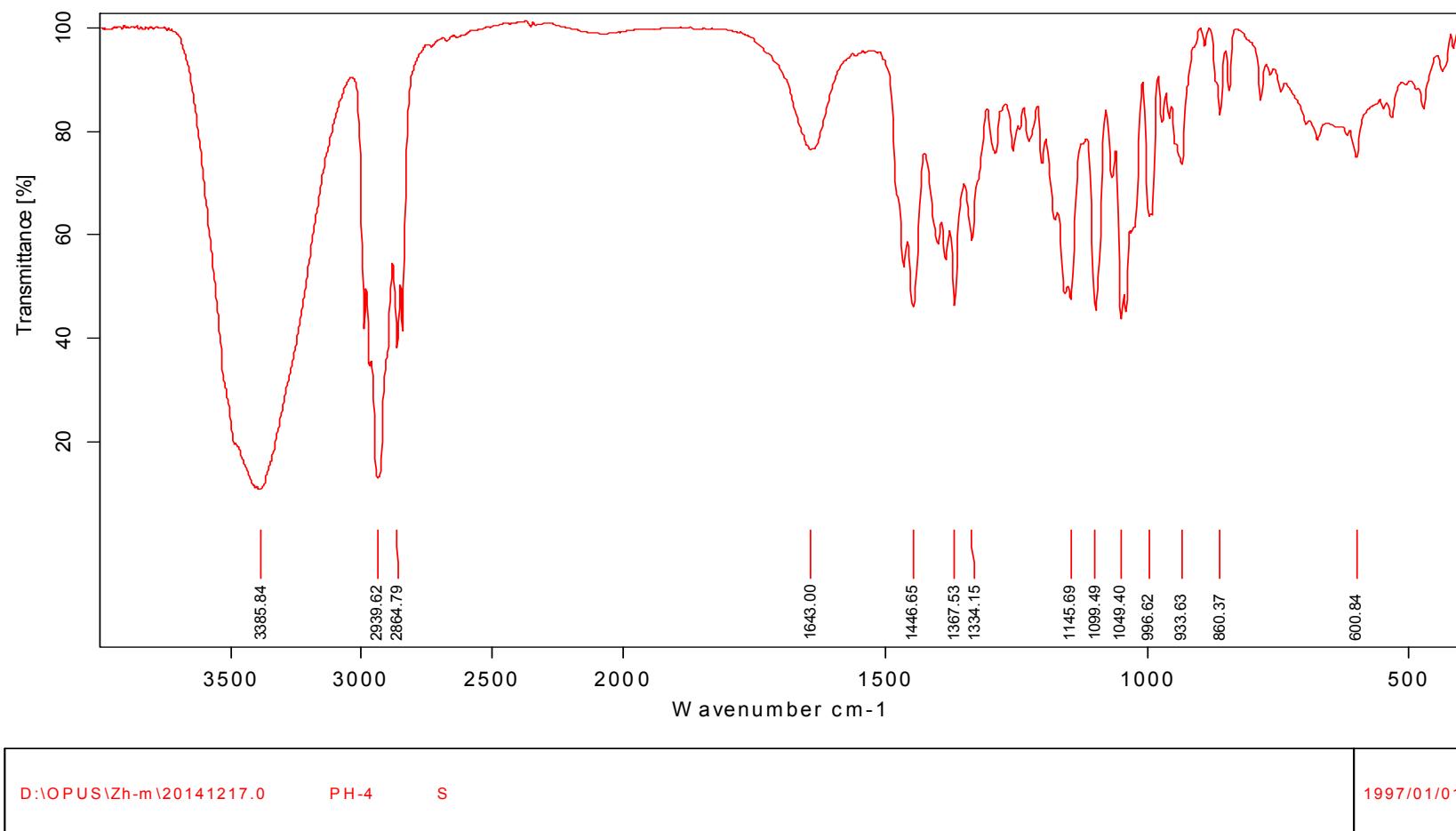
# Supplementary Materials: Henrin A: A New Anti-HIV Ent-Kaurane Diterpene from *Pteris henryi*

Wan-Fei Li, Juan Wang, Jing-Jie Zhang, Xun Song, Chuen-Fai Ku, Juan Zou, Ji-Xin Li, Li-Jun Rong, Lu-Tai Pan and Hong-Jie Zhang



#	Name	Peaks (nm)	Absorbance (AU)
1	PH-4	204.0	0.39626

**Figure S1.** UV spectrum of henrin A.

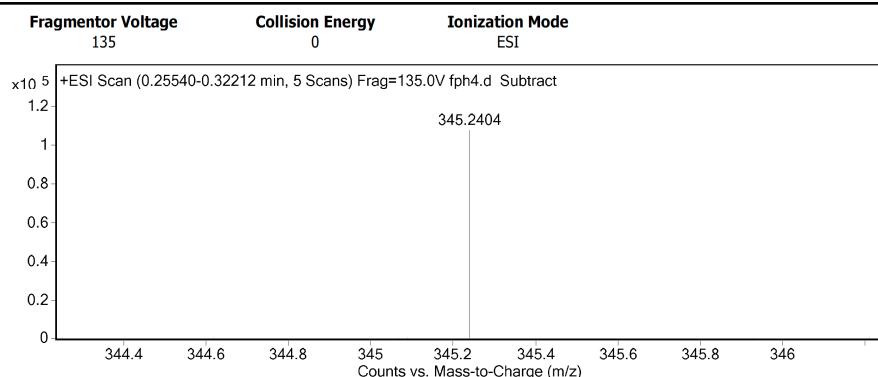


**Figure S2.** IR spectrum of henrin A.

## Qualitative Analysis Report

<b>Data Filename</b>	fph4.d	<b>Sample Name</b>	fph4
<b>Sample Type</b>	Sample	<b>Position</b>	P1-A4
<b>Instrument Name</b>	Instrument 1	<b>User Name</b>	
<b>Acq Method</b>	SIBU.m	<b>Acquired Time</b>	12/23/2014 2:48:37 PM
<b>IRM Calibration Status</b>	Success	<b>DA Method</b>	Default.m
<b>Comment</b>			
<b>Sample Group</b>		<b>Info.</b>	
<b>Acquisition SW</b>	6200 series TOF/6500 series		
<b>Version</b>	Q-TOF B.05.01 (B5125.2)		

### User Spectra



### Peak List

m/z	z	Abund	Formula	Ion
301.1411	1	3629.4		
340.2841	1	2658.42		
345.2404	1	107610.23	C20 H34 O3	(M+Na)+
346.2436	1	23939.52	C20 H34 O3	(M+Na)+
347.2466	1	3126.18	C20 H34 O3	(M+Na)+
386.2666	1	5900.76		
667.4926	1	158151.25		
668.4957	1	67172.92		
669.4982	1	15186.46		
670.5001	1	2883.41		

### Formula Calculator Element Limits

Element	Min	Max
C	3	60
H	0	120
O	0	30

### Formula Calculator Results

Formula	CalculatedMass	CalculatedMz	Mz	Diff. (mDa)	Diff. (ppm)	DBE
C20 H34 O3	322.2508	345.2400	345.2404	-0.3	-1.0	4.0000

--- End Of Report ---

**Figure S3.** HR-ESIMS spectrum of henrin A.

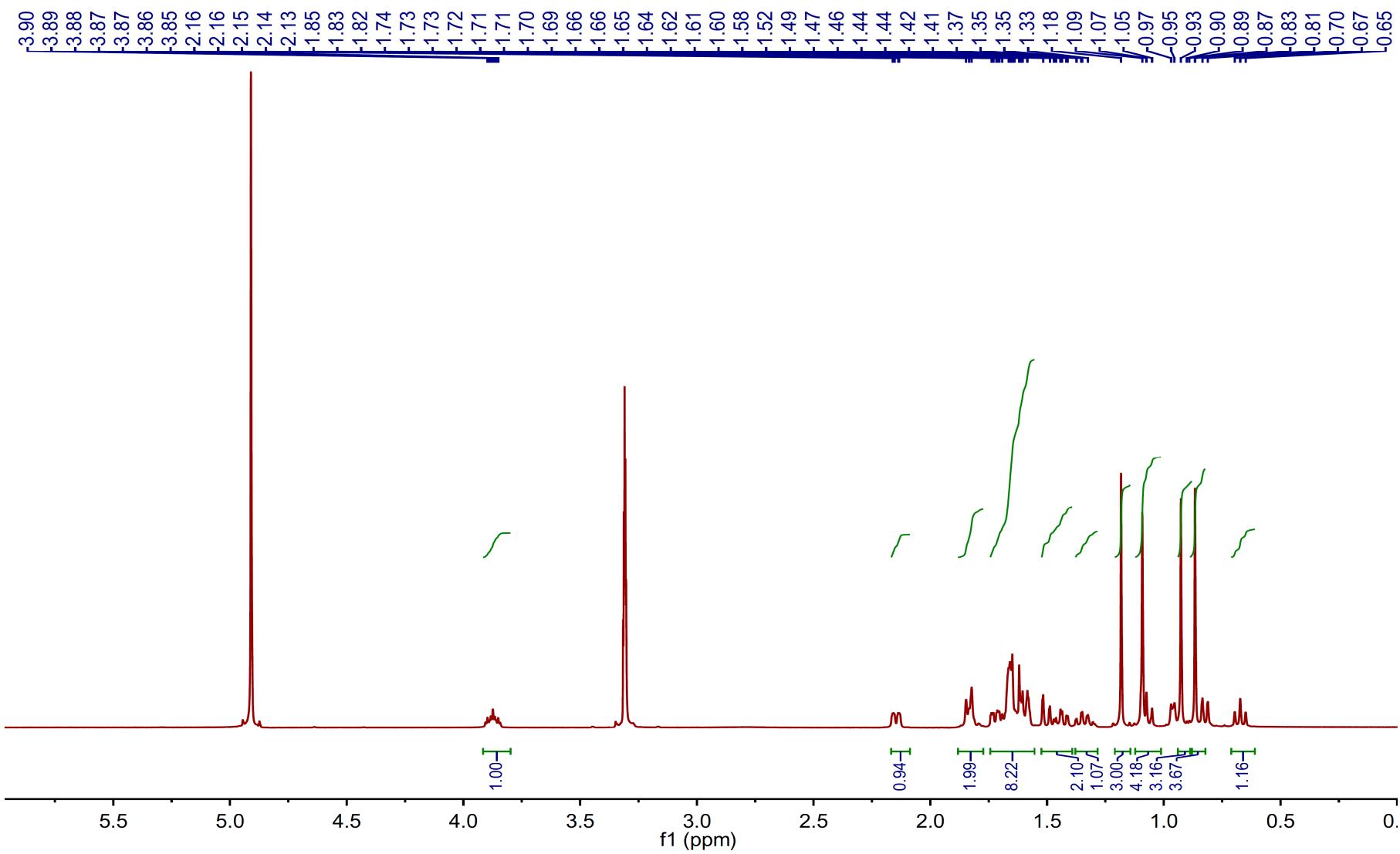


Figure S4.  ${}^1\text{H}$  NMR (500 MHz,  $\text{CD}_3\text{OD}$ ) spectrum of henrin A.

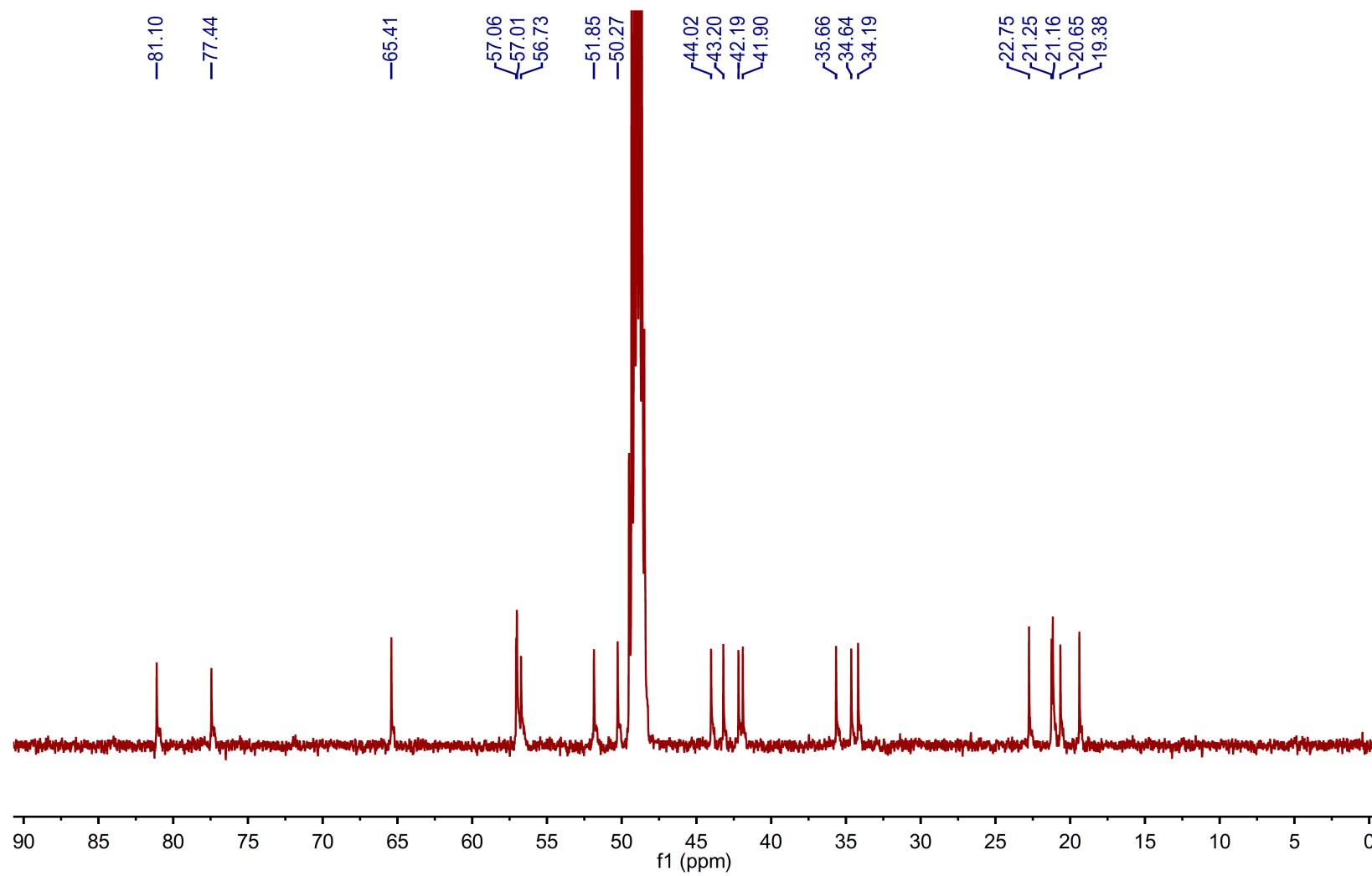


Figure S5.  $^{13}\text{C}$  NMR (500 MHz,  $\text{CD}_3\text{OD}$ ) spectrum of henrin A.

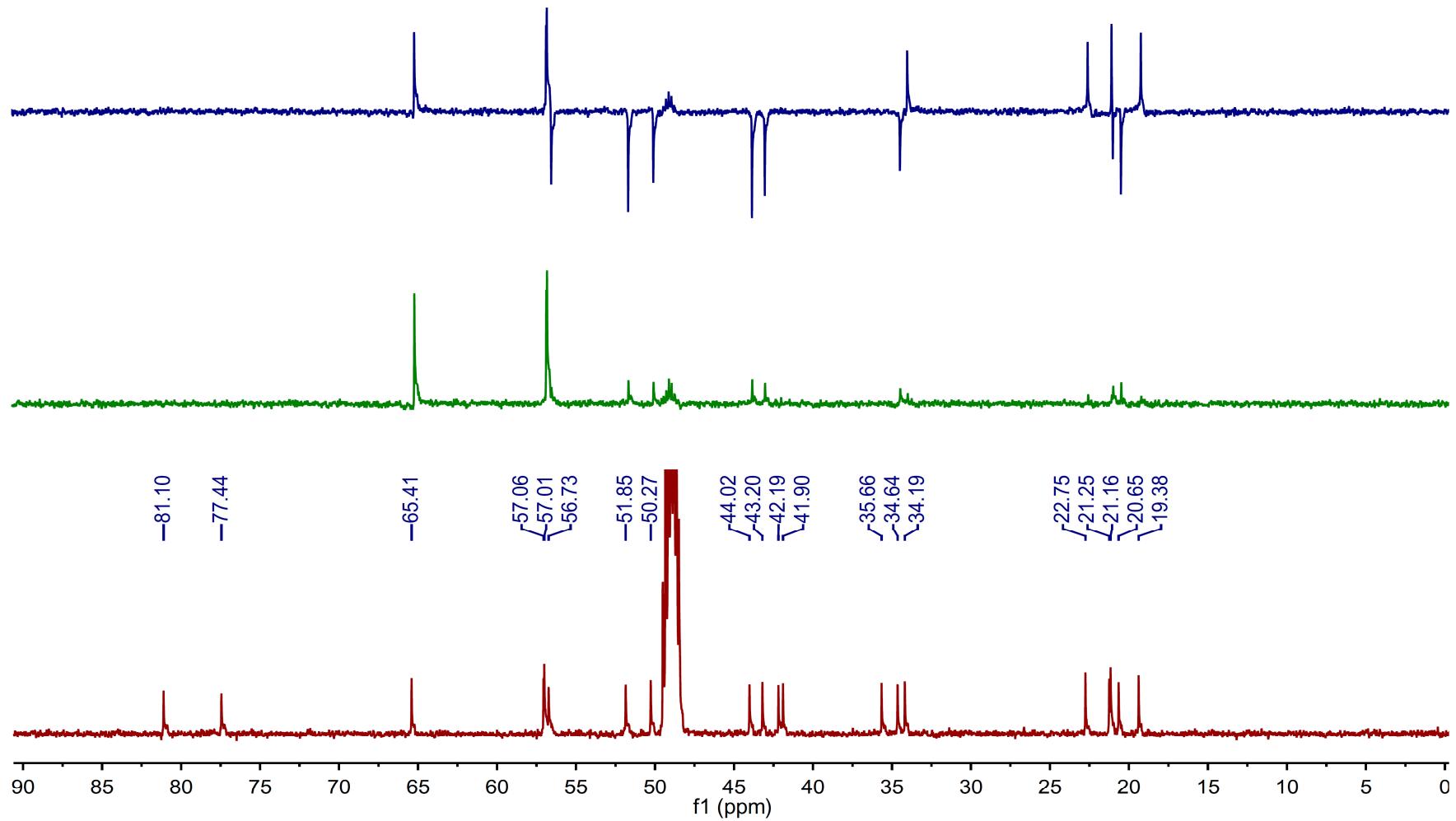


Figure S6.  $^{13}\text{C}$ -DEPT (500 MHz,  $\text{CD}_3\text{OD}$ ) spectrum of henrin A.

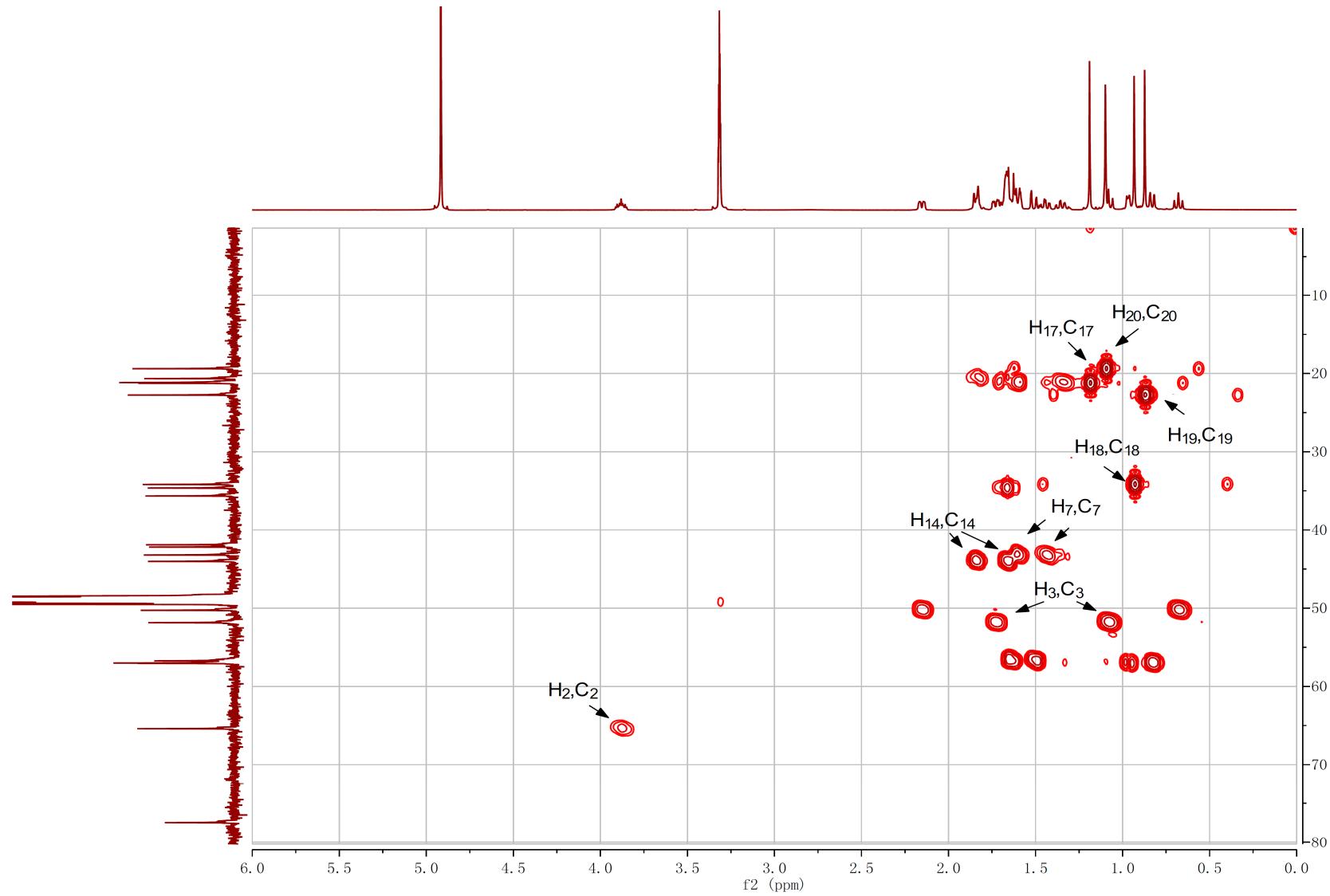


Figure S7. HMQC ( $CD_3OD$ ) spectrum of hennin A.

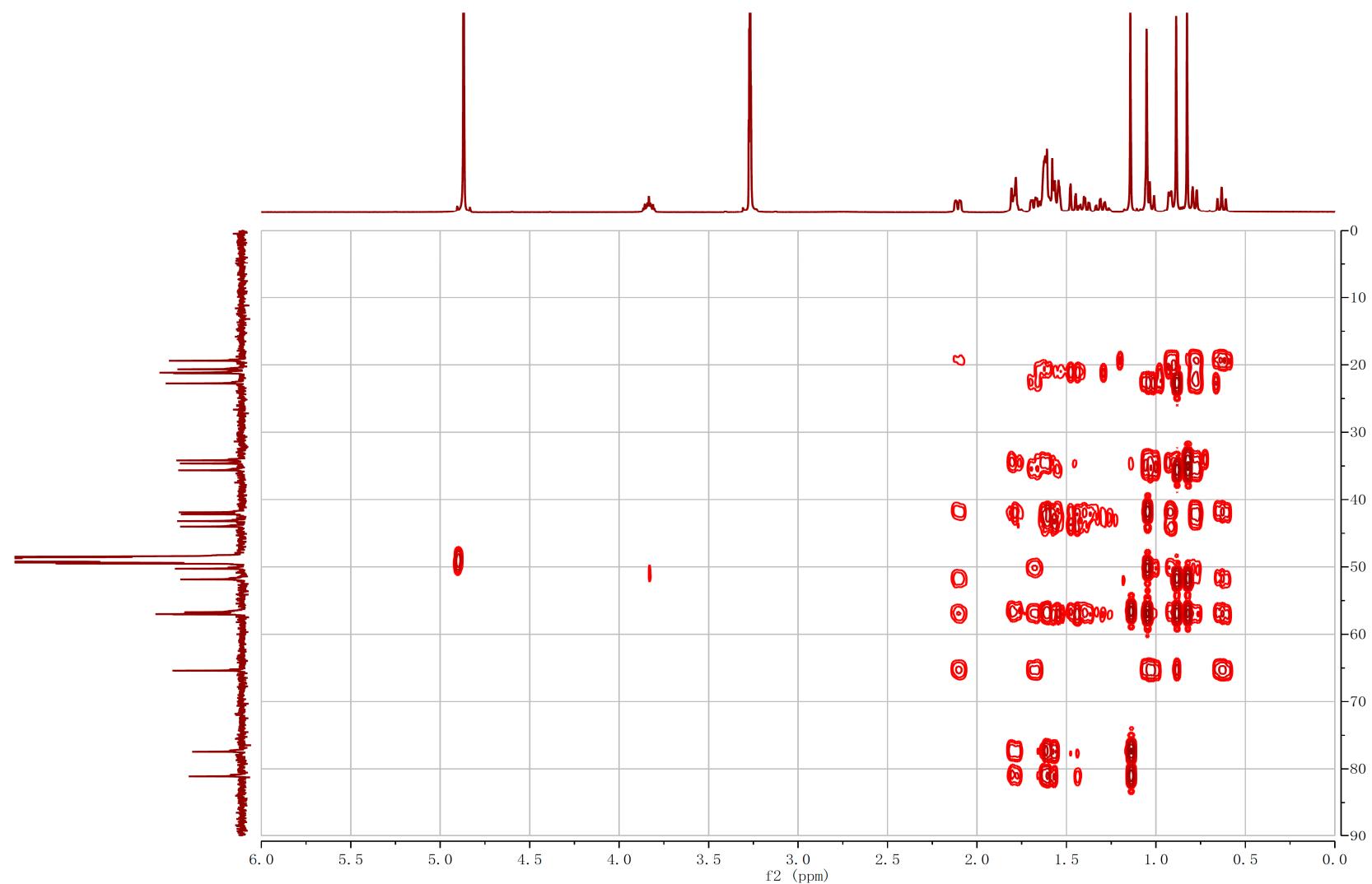
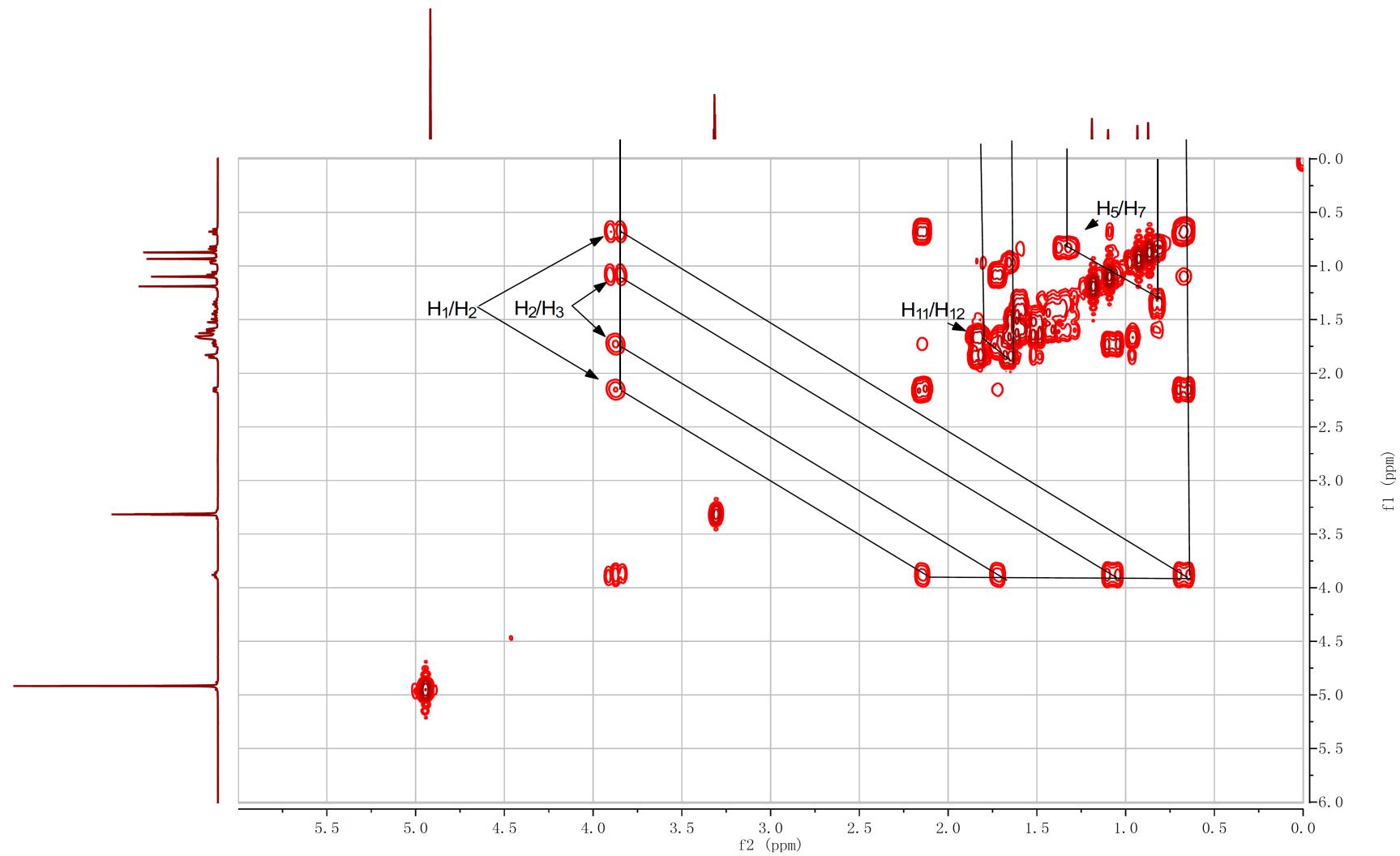
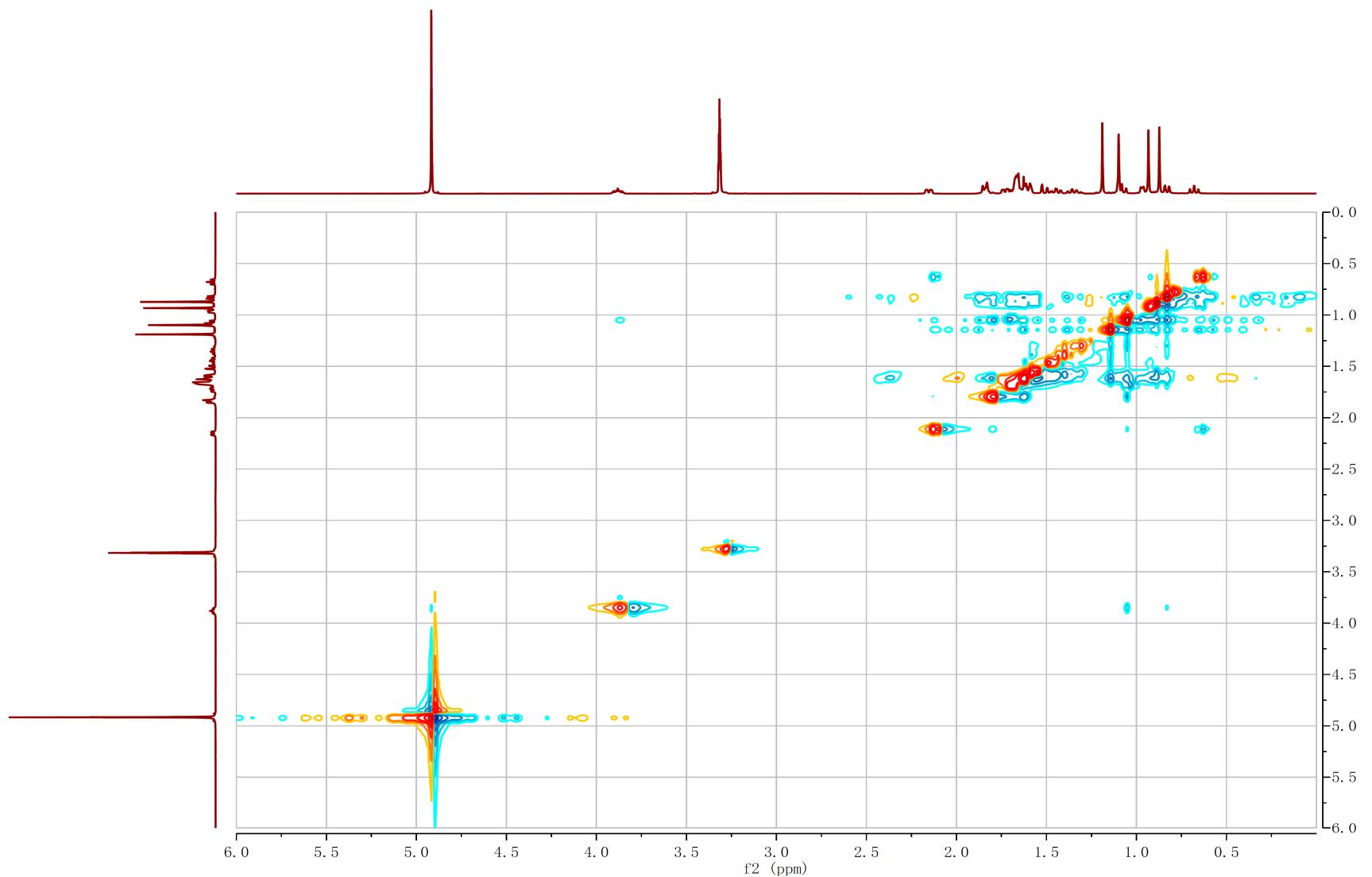


Figure S8. HMBC ( $\text{CD}_3\text{OD}$ ) spectrum of henrin A.



**Figure S9.**  $^1\text{H}$ - $^1\text{H}$  COSY ( $\text{CD}_3\text{OD}$ ) spectrum of henrin A. The black lines show the correlations between the proton signals of the adjacent carbons.



**Figure S10.** ROESY ( $\text{CD}_3\text{OD}$ ) spectrum of henrin A.