

Supplementary Materials: New Sesquiterpenenoids from *Ainsliaea yunnanensis*

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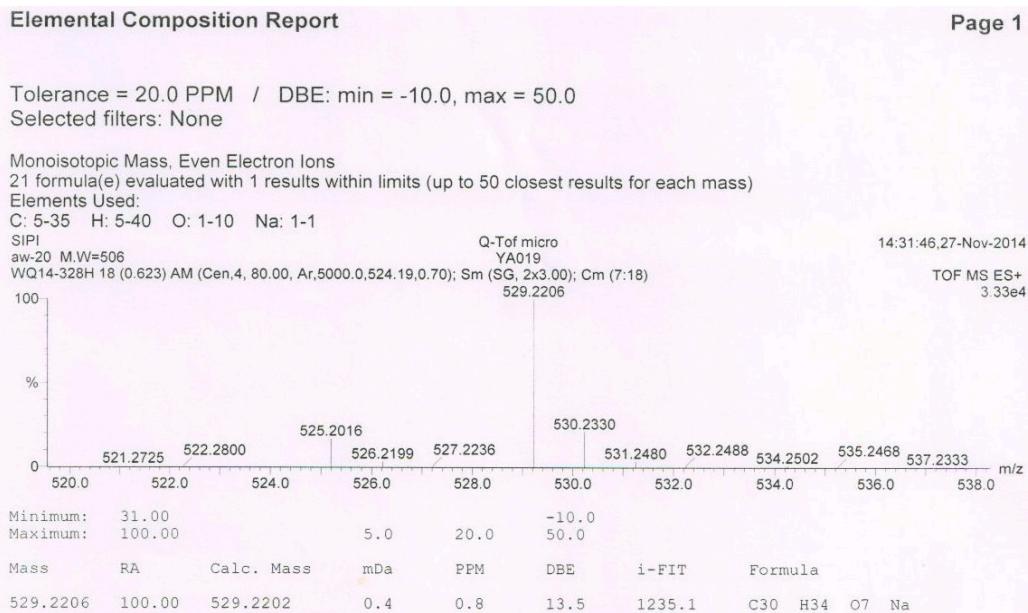


Figure S1. HRESI mass spectrum of compound 1.

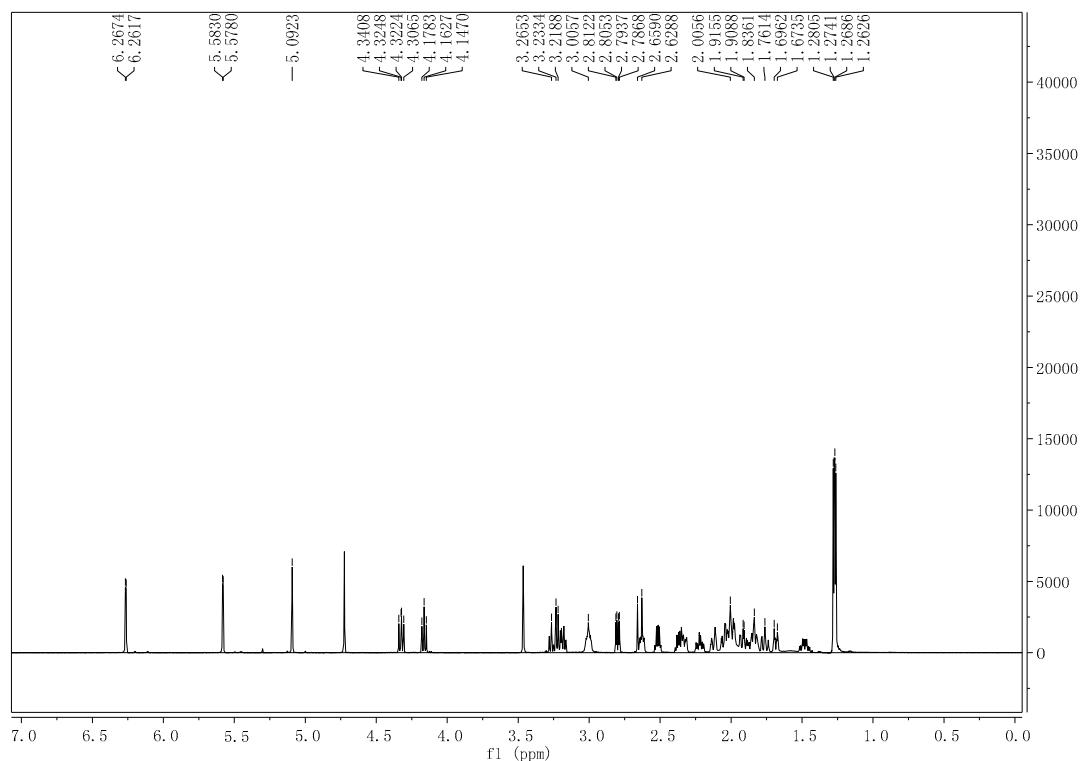
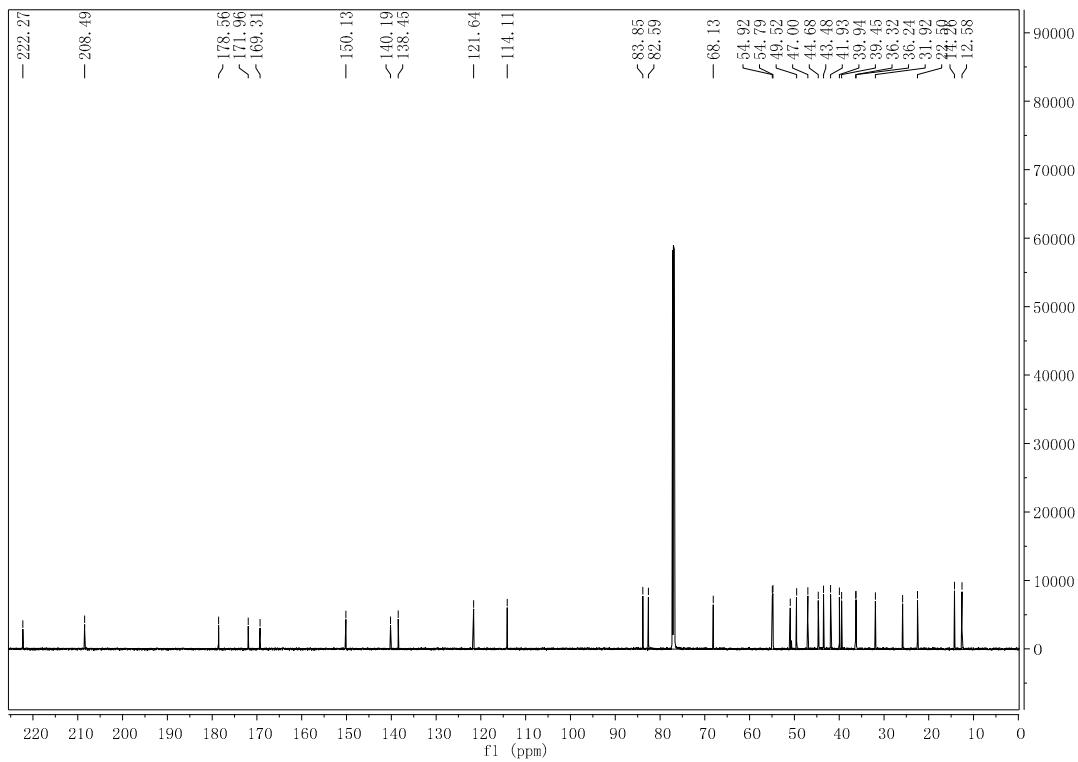
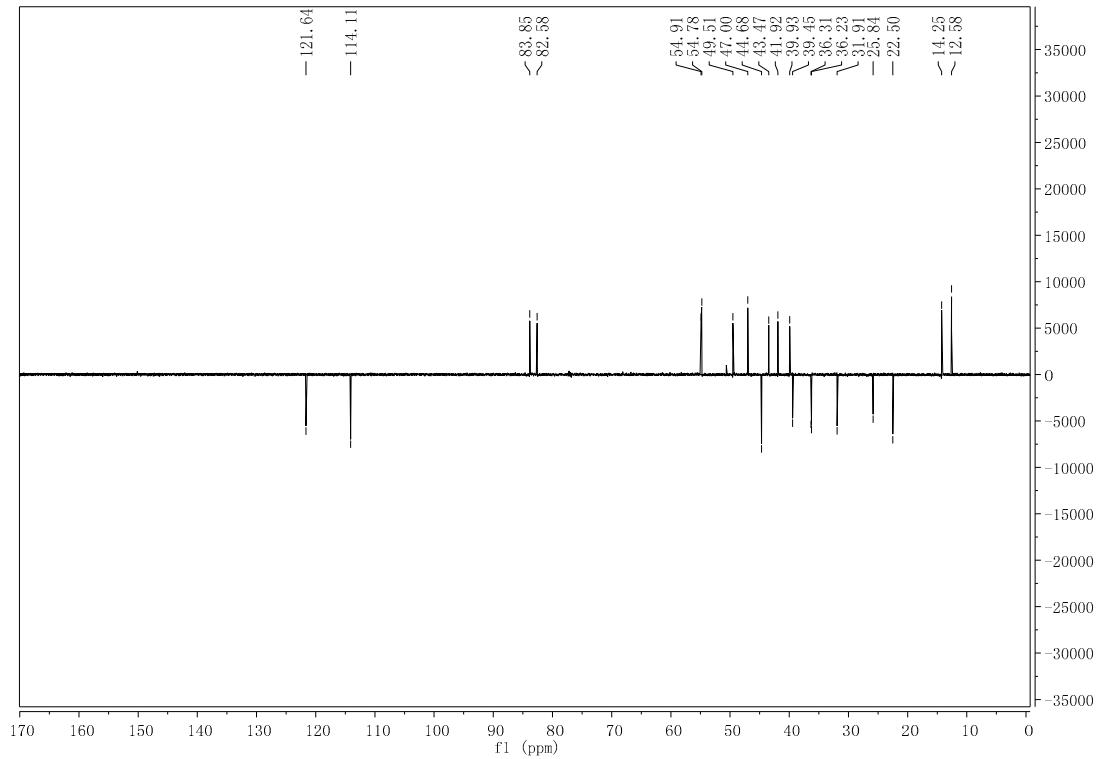


Figure S2. ¹H-NMR spectrum of compound 1 (600 MHz, in CDCl₃).

**Figure S3.** ^{13}C -NMR spectrum of compound **1** (150 MHz, in CDCl_3).**Figure S4.** DEPT spectrum of compound **1** (150 MHz, in CDCl_3).

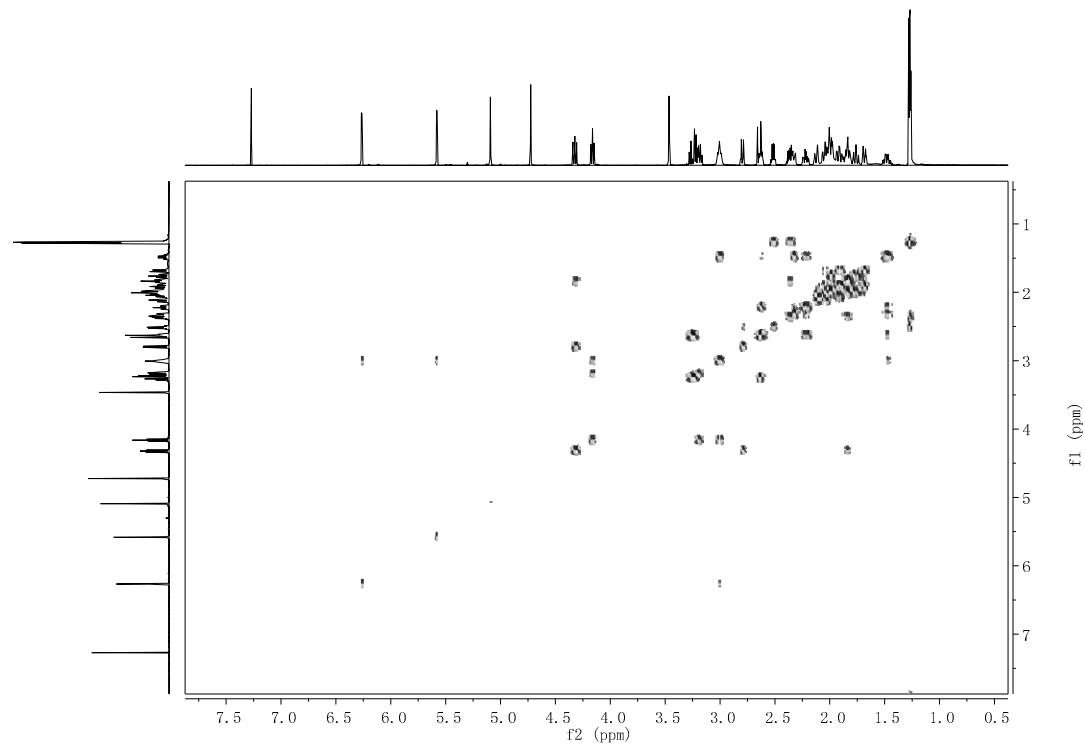


Figure S5. ¹H-¹H COSY spectrum of compound 1 (600 MHz, in CDCl₃).

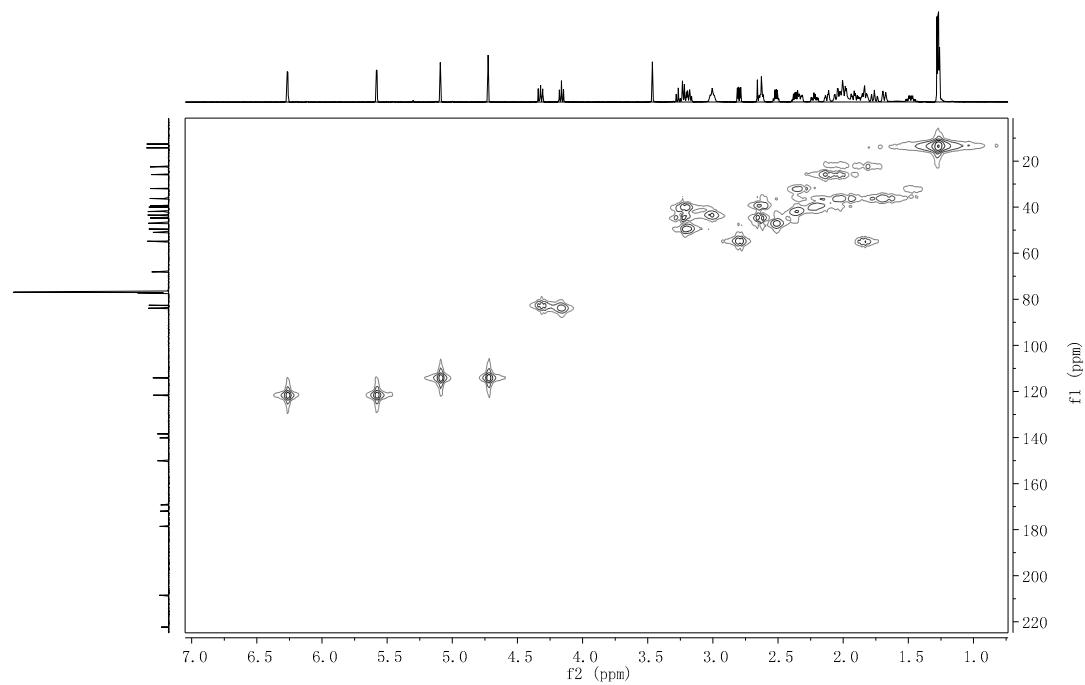


Figure S6. HSQC spectrum of compound 1 (600 MHz, in CDCl₃).

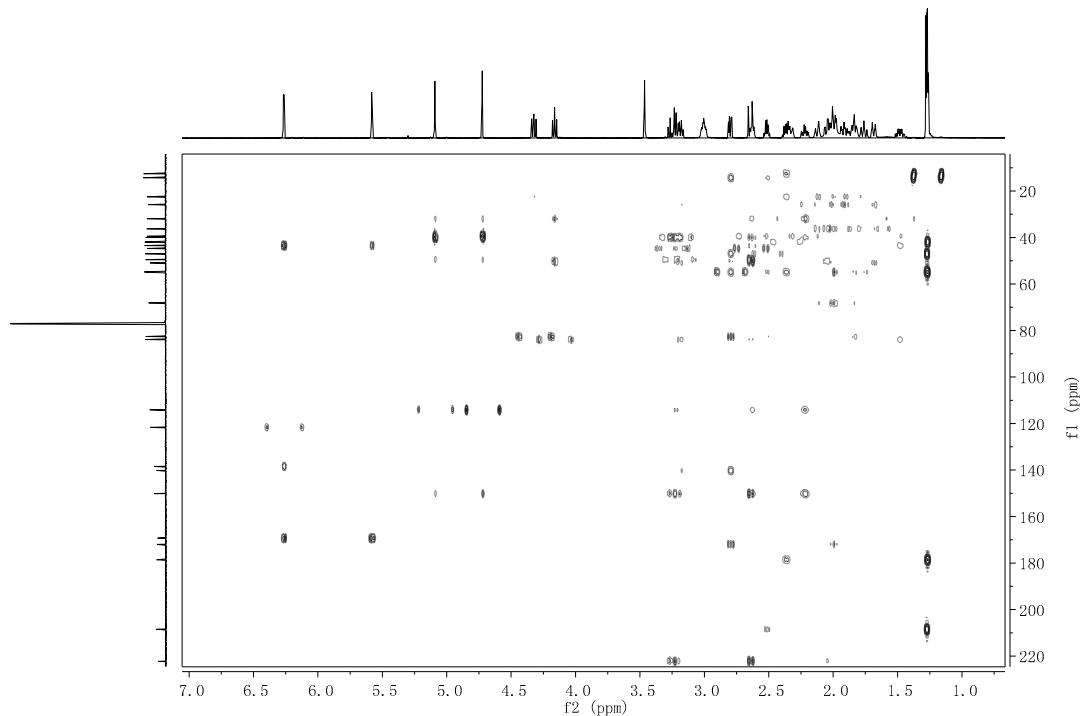


Figure S7. HMBC spectrum of compound 1 (600 MHz, in CDCl_3).

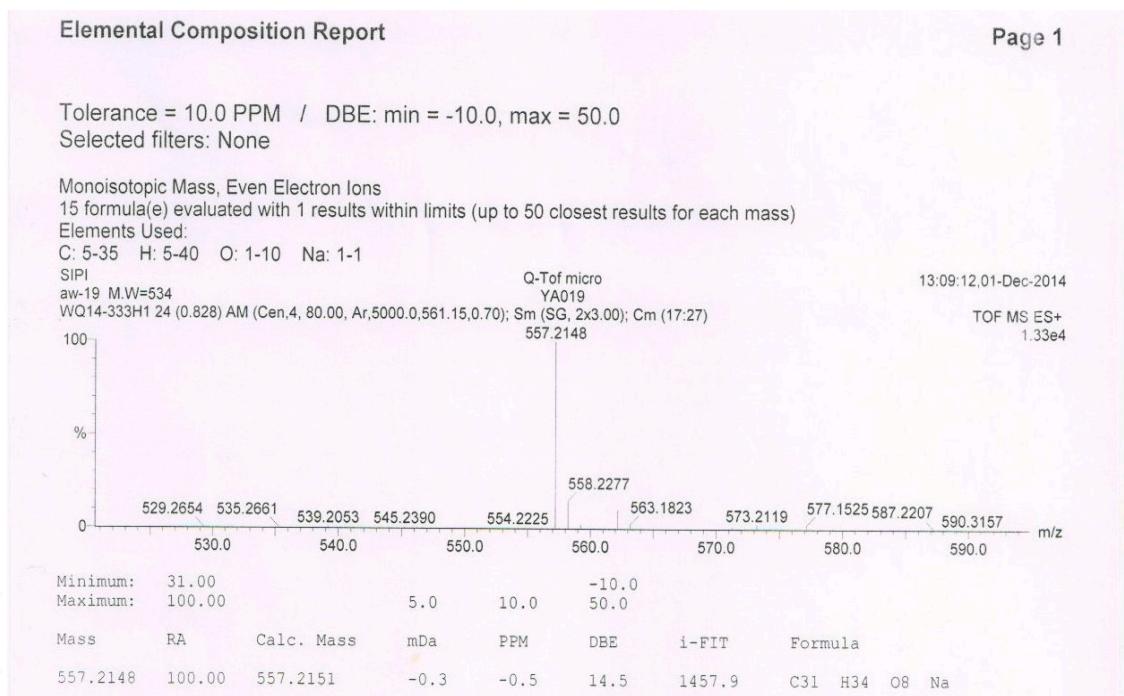
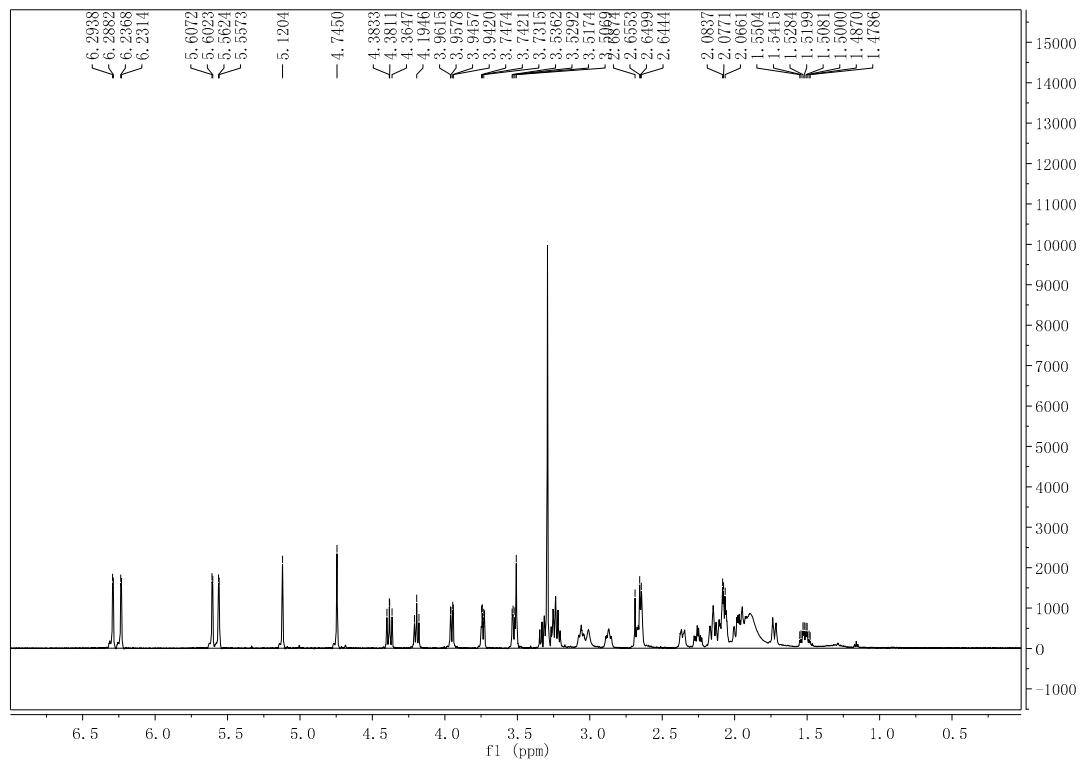
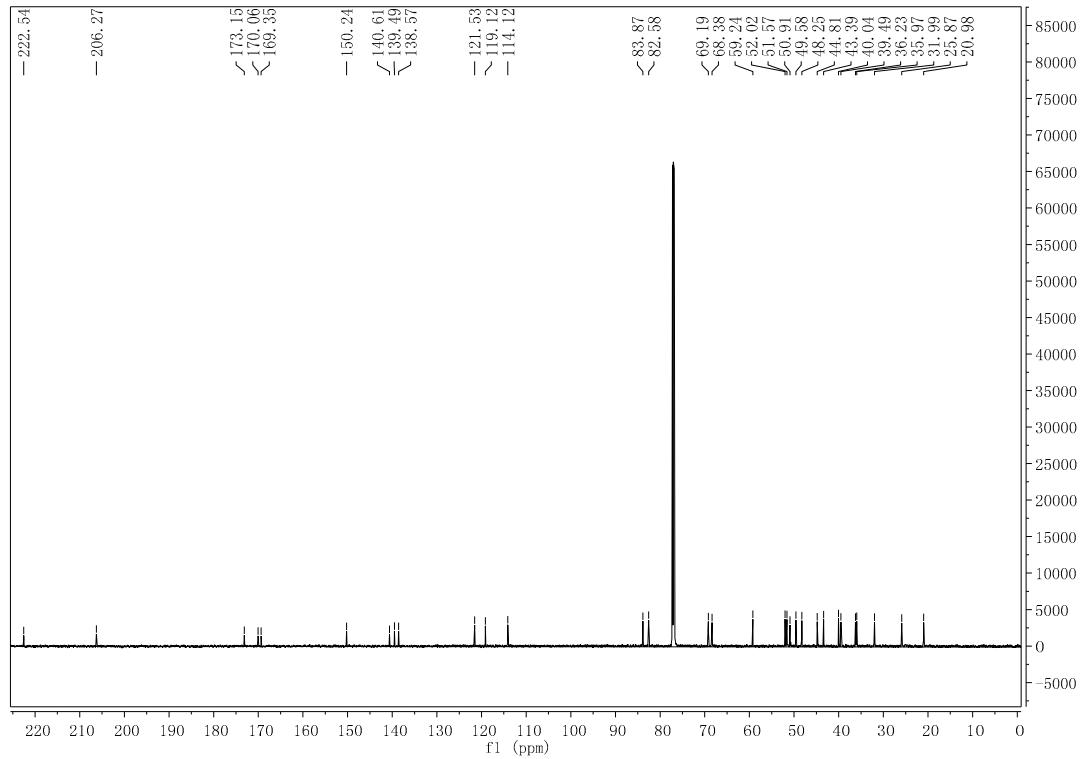


Figure S8. HRESI mass spectrum of compound 2.

**Figure S9.** ¹H-NMR spectrum of compound 2 (600 MHz, in CDCl₃).**Figure S10.** ¹³C-NMR spectrum of compound 2 (150 MHz, in CDCl₃).

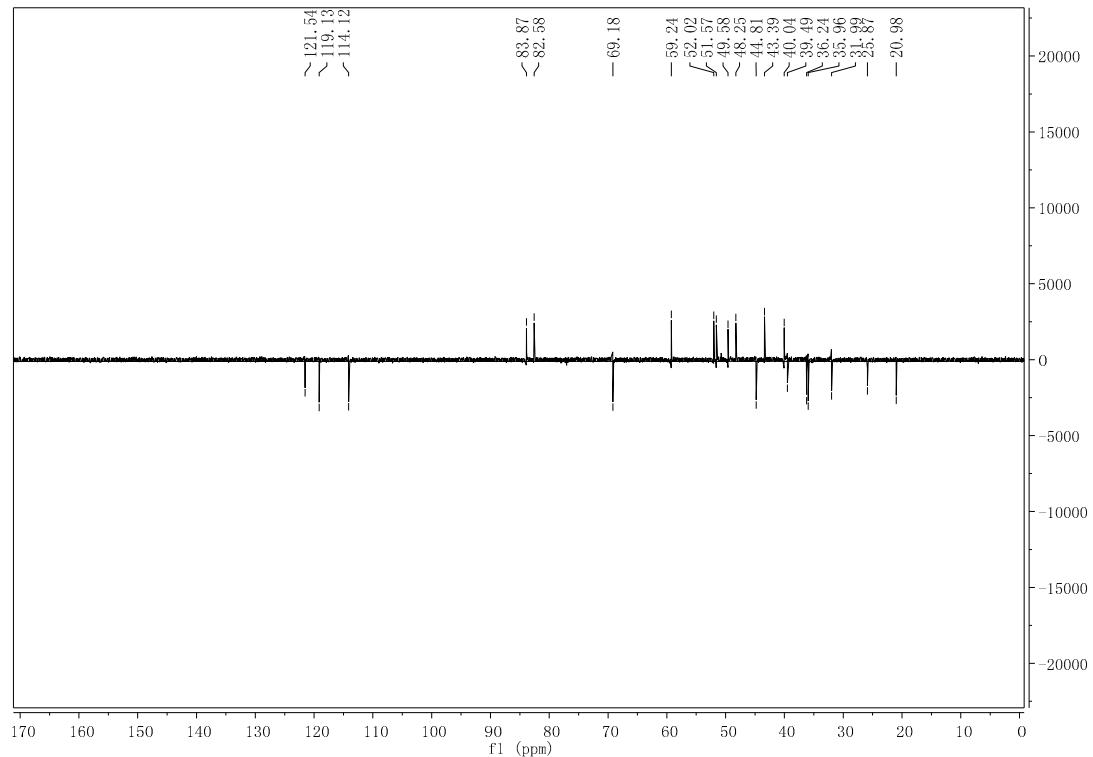


Figure S11. DEPT spectrum of compound 2 (150 MHz, in CDCl_3).

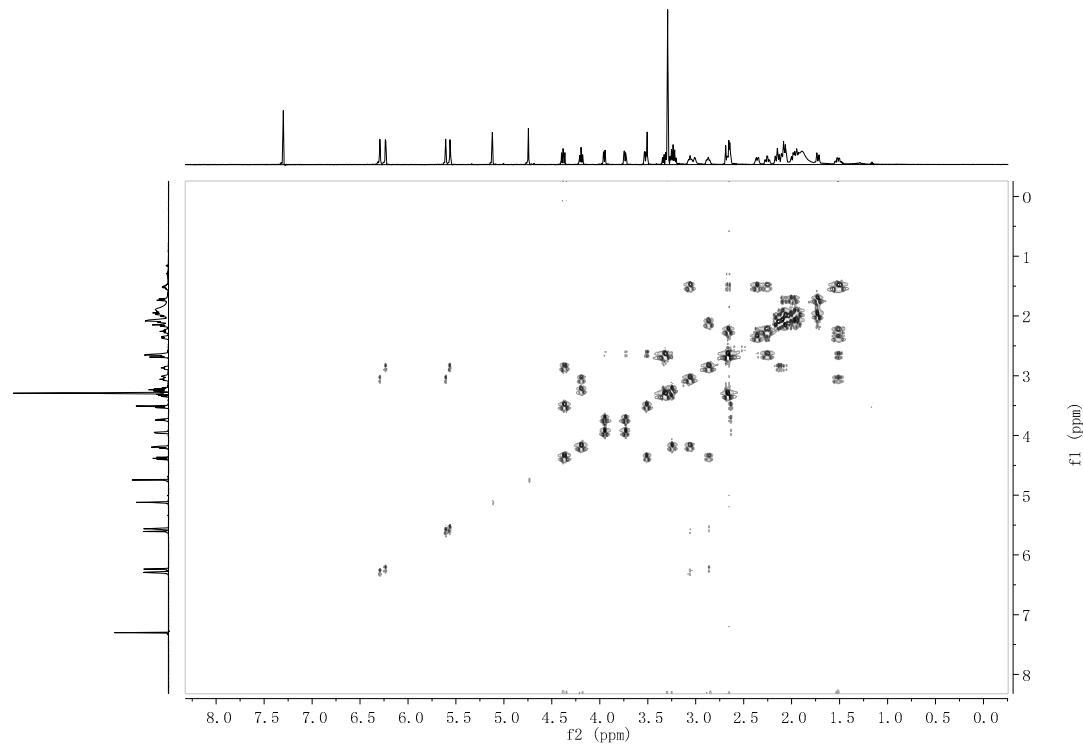


Figure S12. ¹H-¹H COSY spectrum of compound 2 (600 MHz, in CDCl_3).

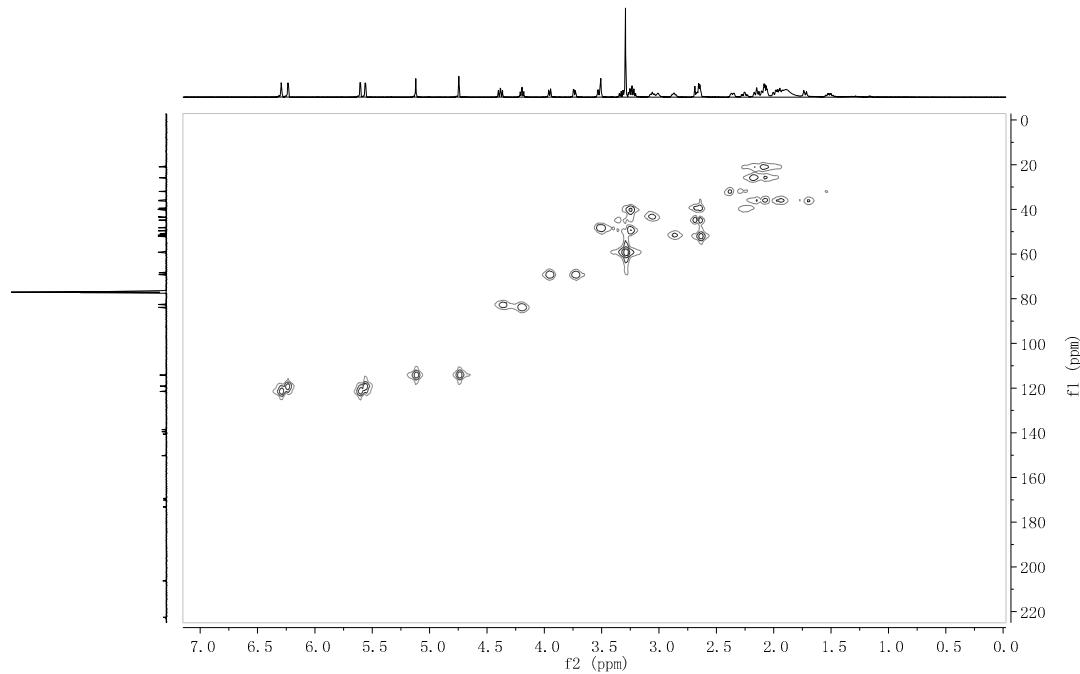


Figure S13. HSQC spectrum of compound **2** (600 MHz, in CDCl₃).

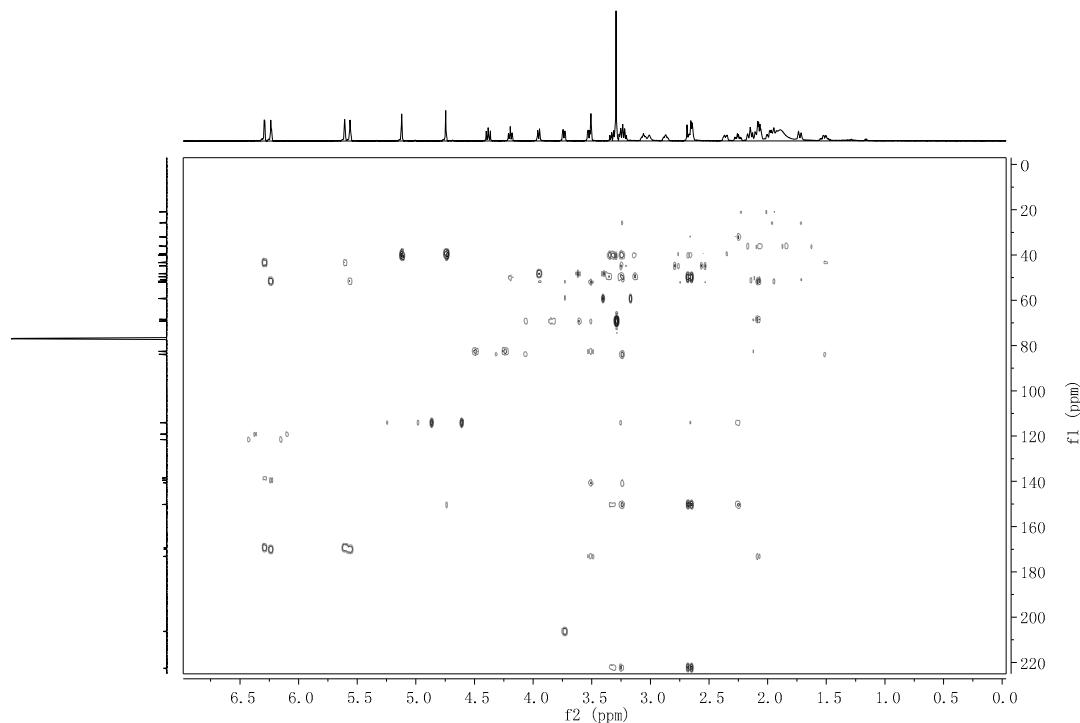
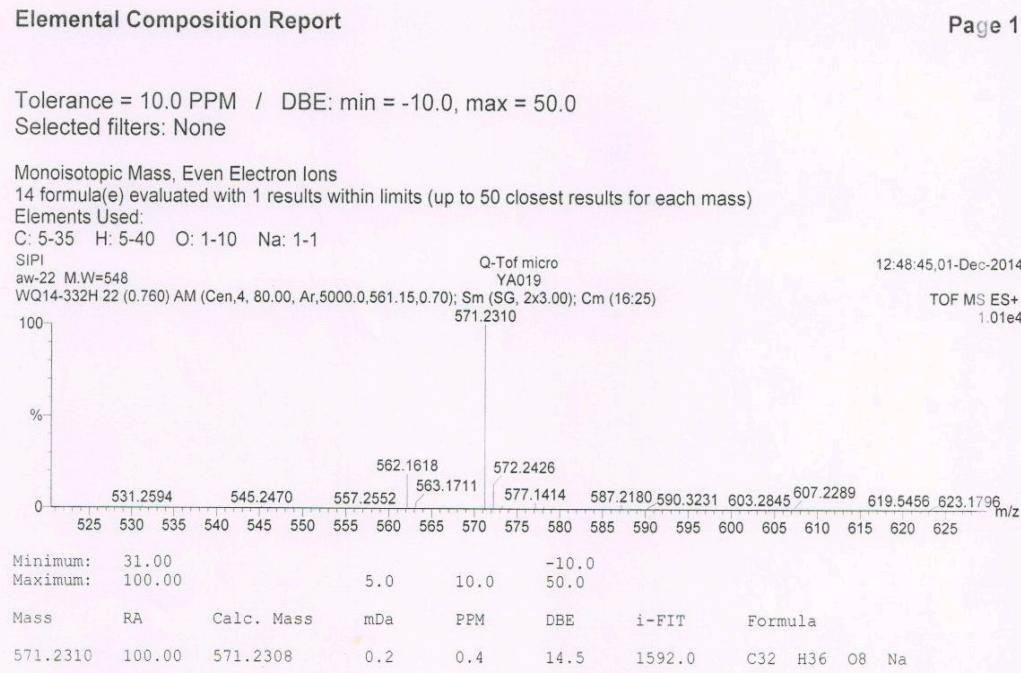
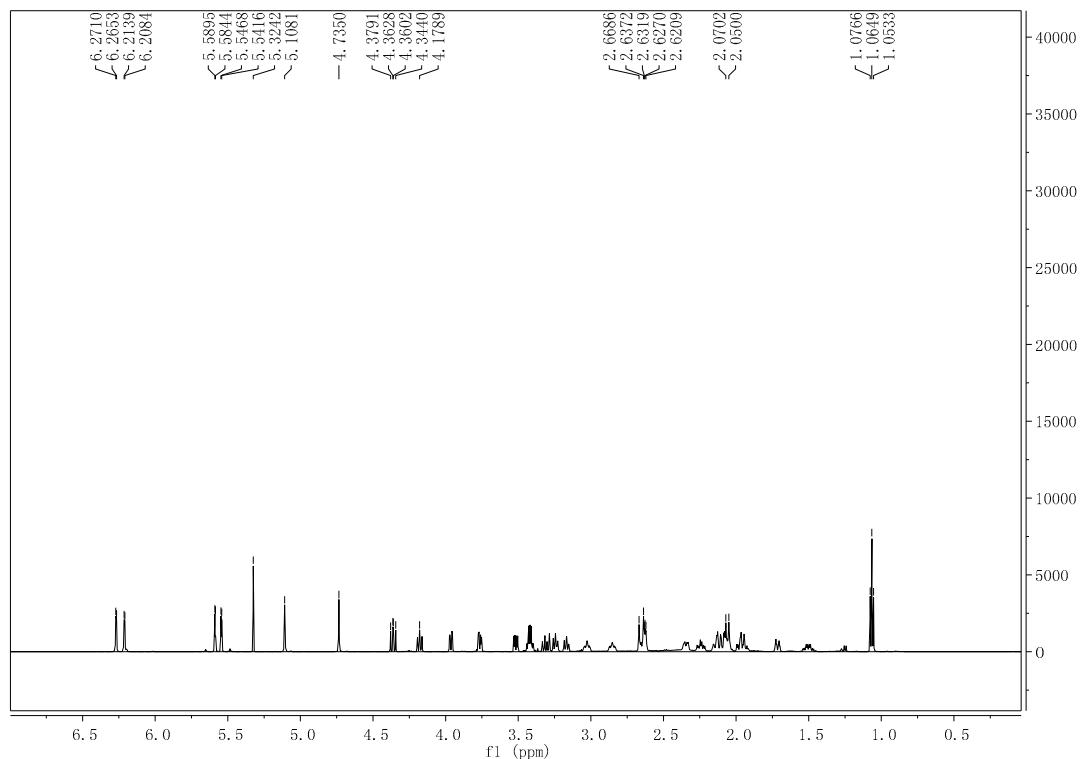


Figure S14. HMBC spectrum of compound **2** (600 MHz, in CDCl₃).

**Figure S15.** HRESI mass spectrum of compound 3.**Figure S16.** ^1H -NMR spectrum of compound 3 (600 MHz, in CDCl_3).

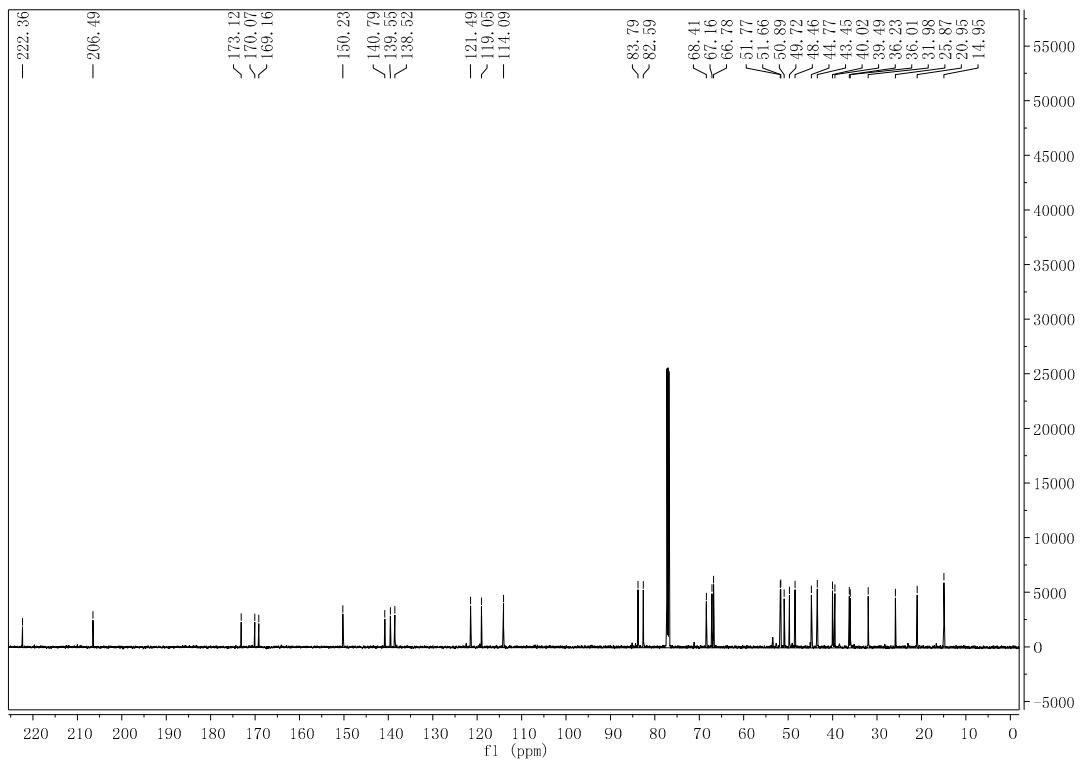


Figure S17. ¹³C-NMR spectrum of compound 3 (150 MHz, in CDCl₃).

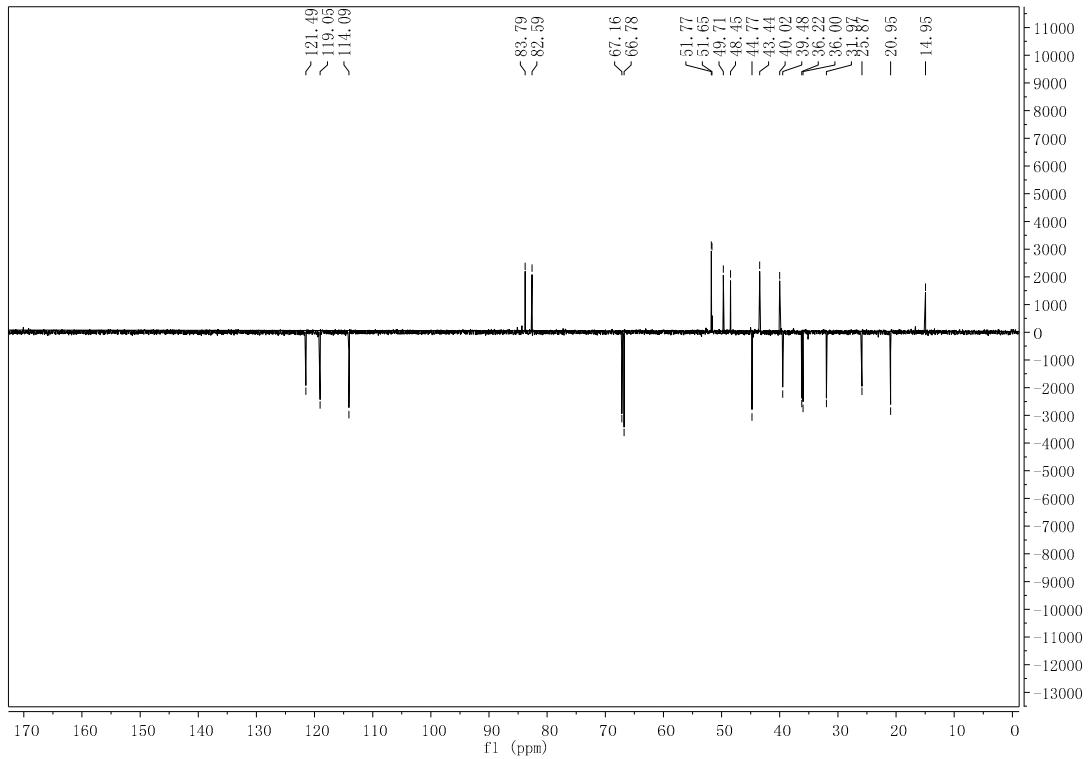


Figure S18. DEPT spectrum of compound 3 (150 MHz, in CDCl₃).

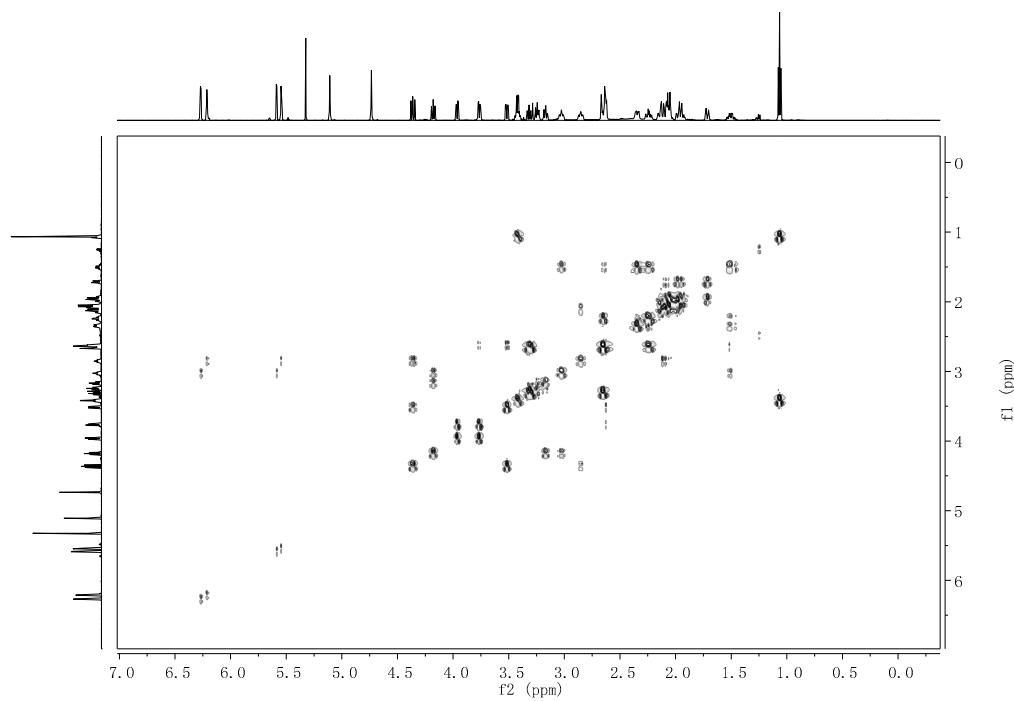


Figure S19. ¹H-¹H COSY spectrum of compound 3 (600 MHz, in CDCl₃).

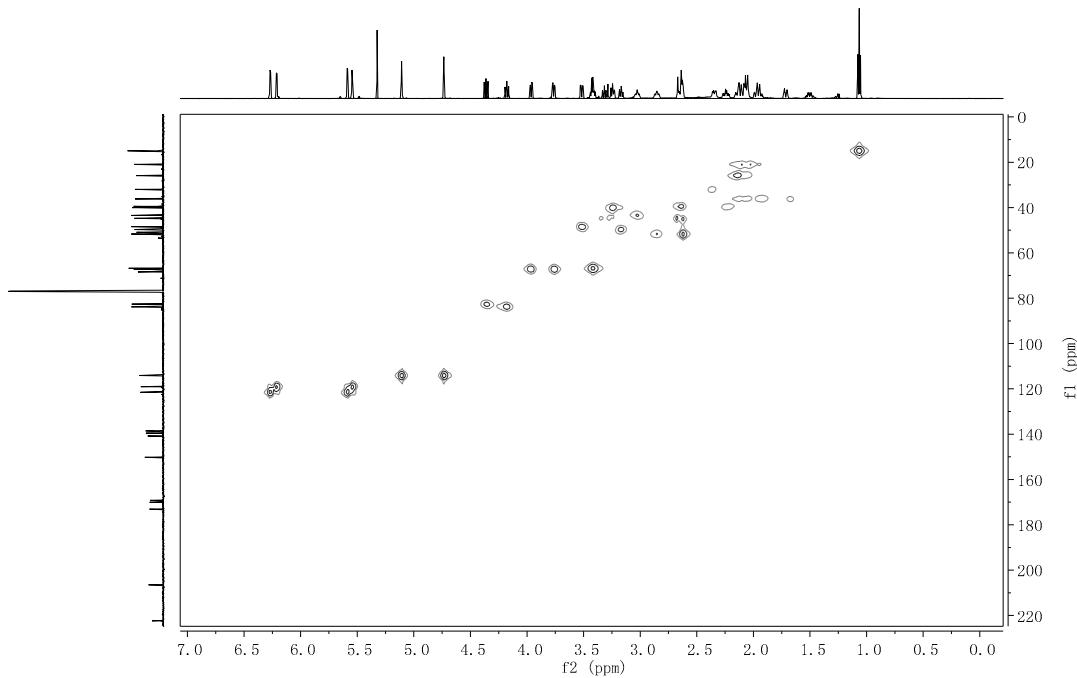


Figure S20. HSQC spectrum of compound 3 (600 MHz, in CDCl₃).

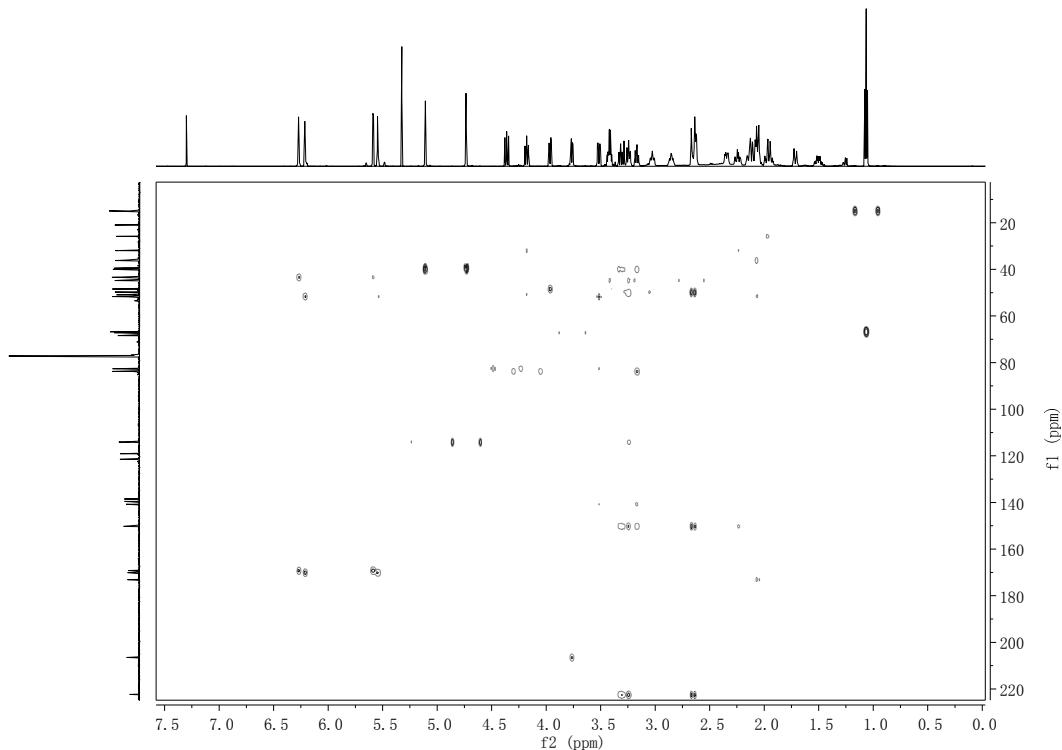


Figure S21. HMBC spectrum of compound 3 (600 MHz, in CDCl₃).

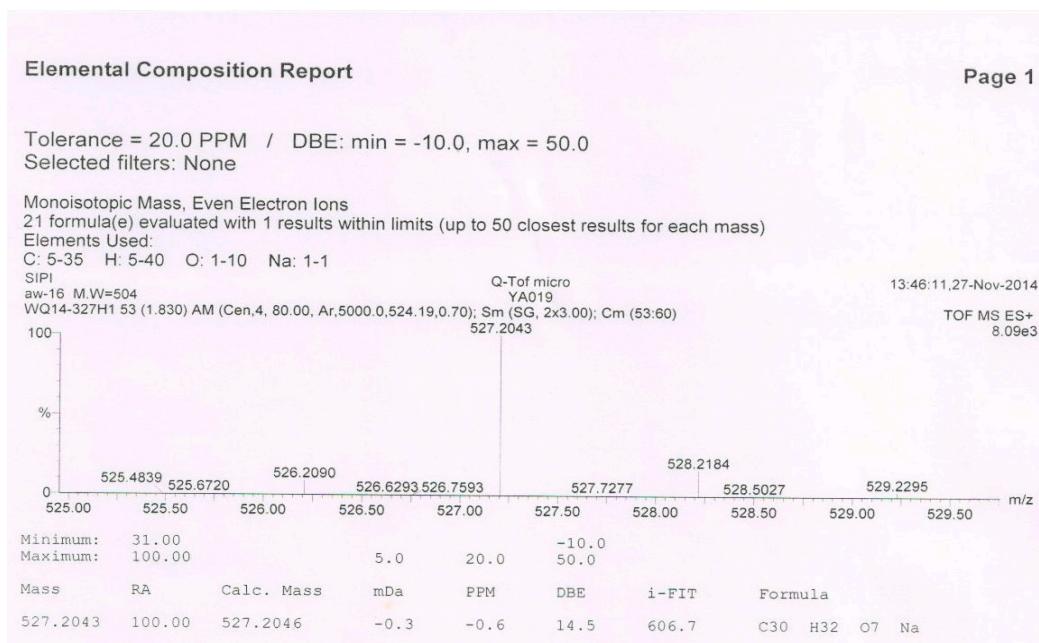


Figure S22. HRESI mass spectrum of compound 4.

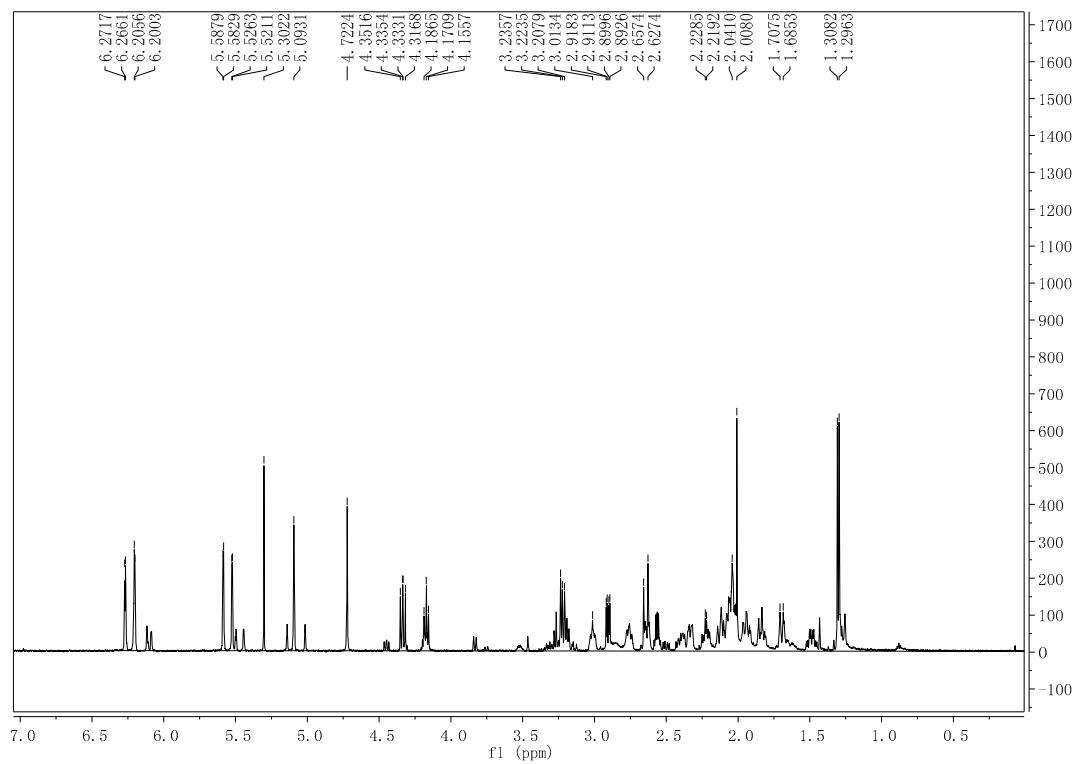


Figure S23. ^1H -NMR spectrum of compound 4 (600 MHz, in CDCl_3).

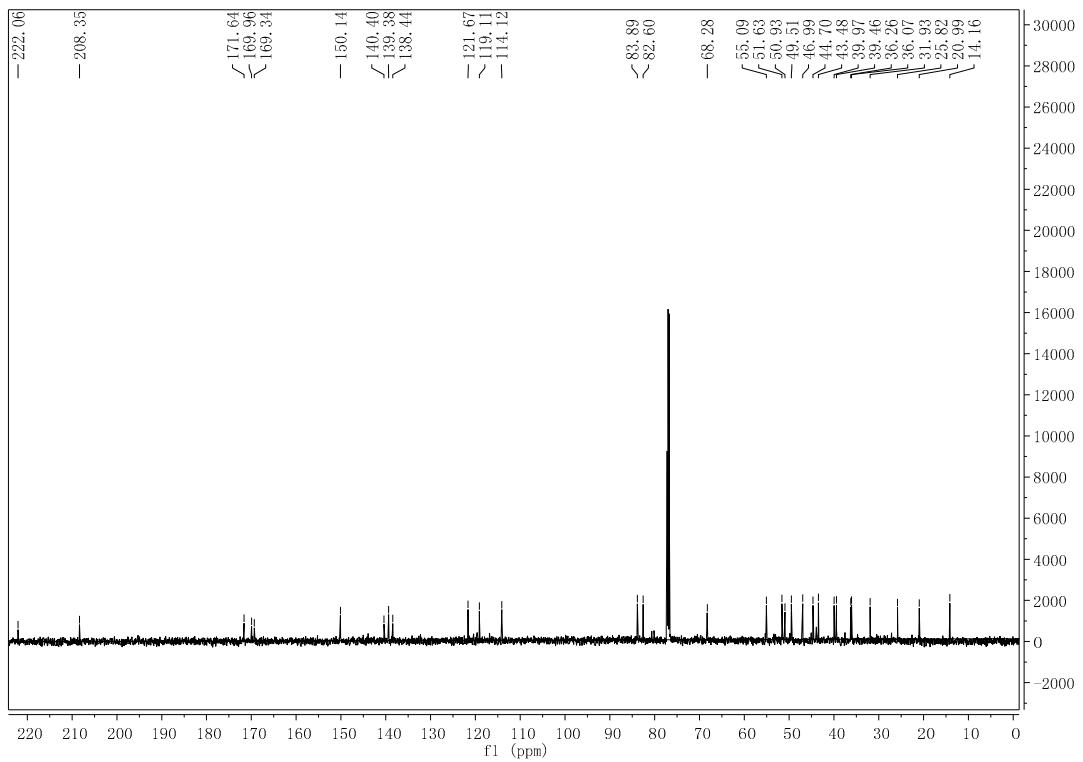


Figure S24. ^{13}C -NMR spectrum of compound **4** (150 MHz, in CDCl_3).

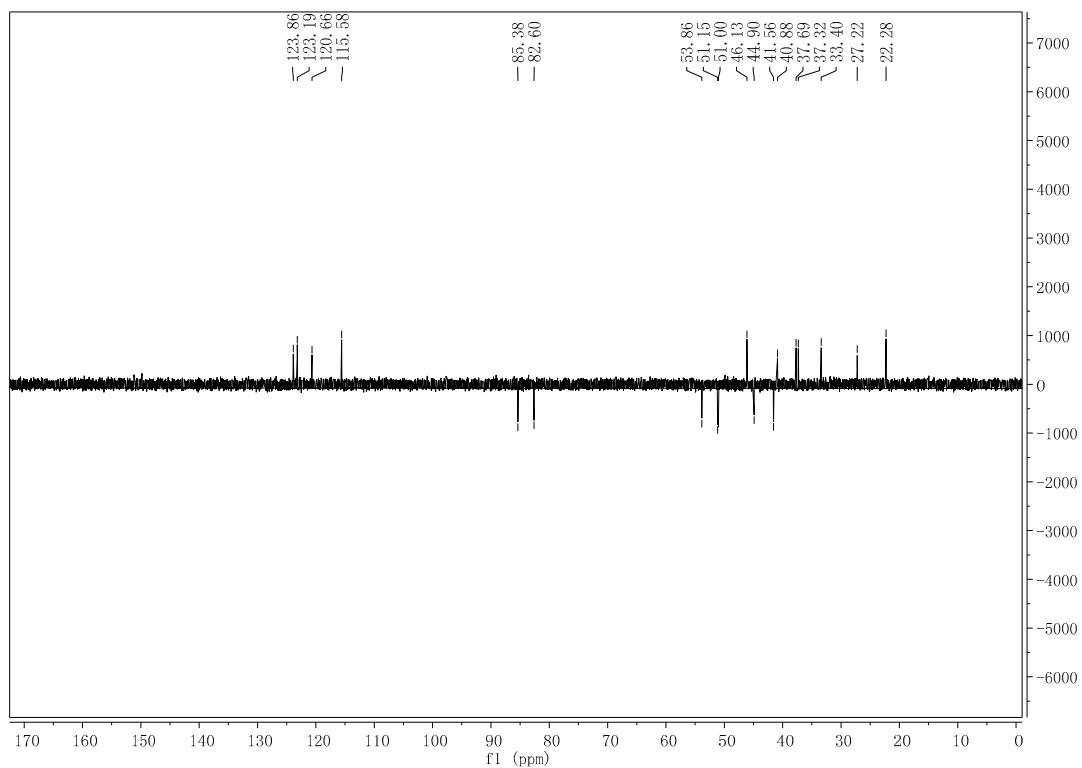


Figure S25. DEPT spectrum of compound 4 (150 MHz, in CDCl₃).

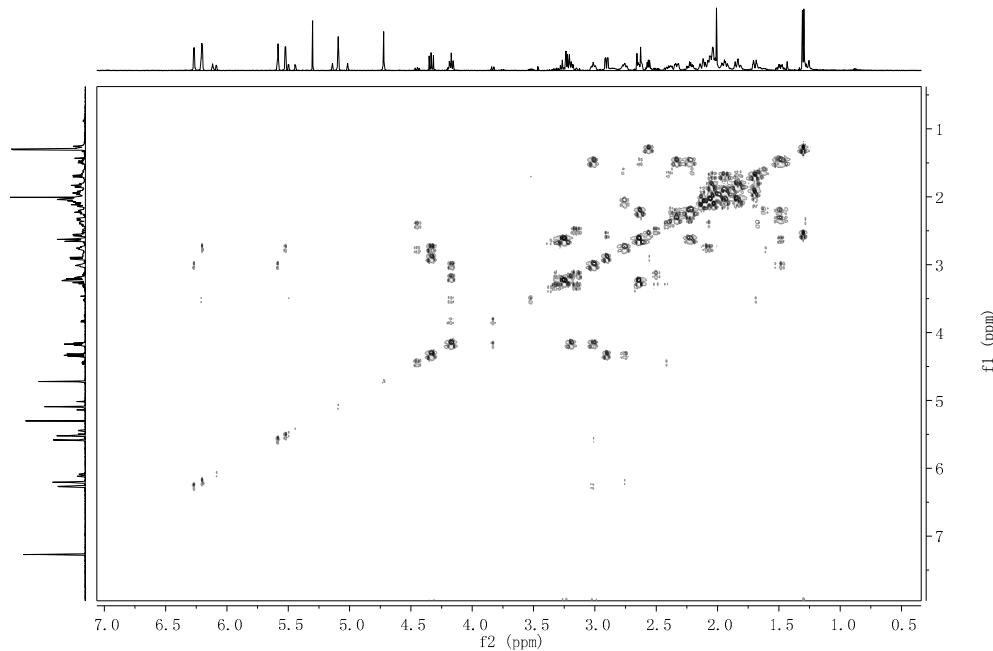


Figure S26. ^1H - ^1H COSY spectrum of compound 4 (600 MHz, in CDCl_3).

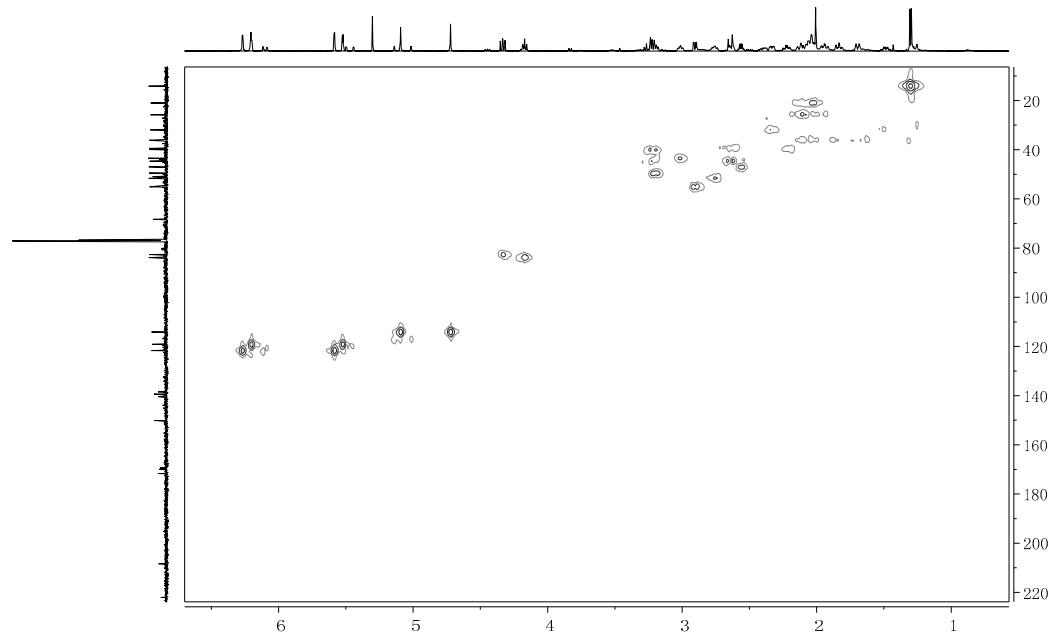
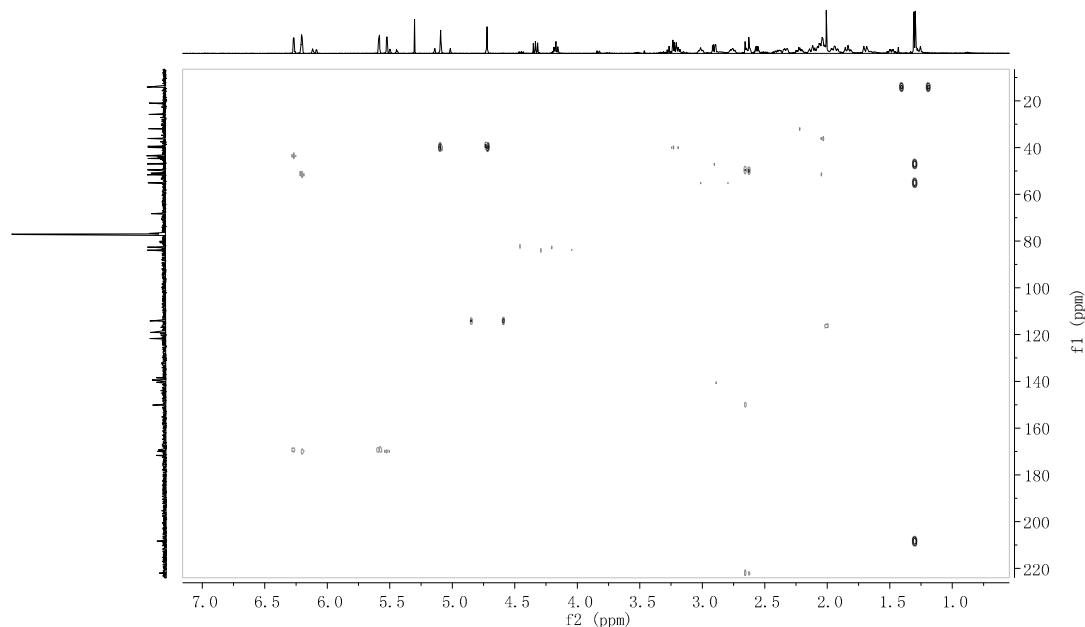


Figure S27. HSQC spectrum of compound 4 (600 MHz, in CDCl_3).



The acetone extract of *A. yunnanensis* and compounds **1**, **2**, **3**, **4** were analysed with the Diamonsil C18 column (250 mm × 4.6 mm, 5.0 μm , Dikma Technologies, Beijing, China), the mobile phase of HPLC-VWD as followed.

No.	Time (min)	Acetonitrile (%)	H_2O	Flow (mL/min)
1	0.00–30.00	40	60	1
2	0.00–35.00	40	60	1

Figure S28. HMBC spectrum of compound 4 (600 MHz, in CDCl_3).

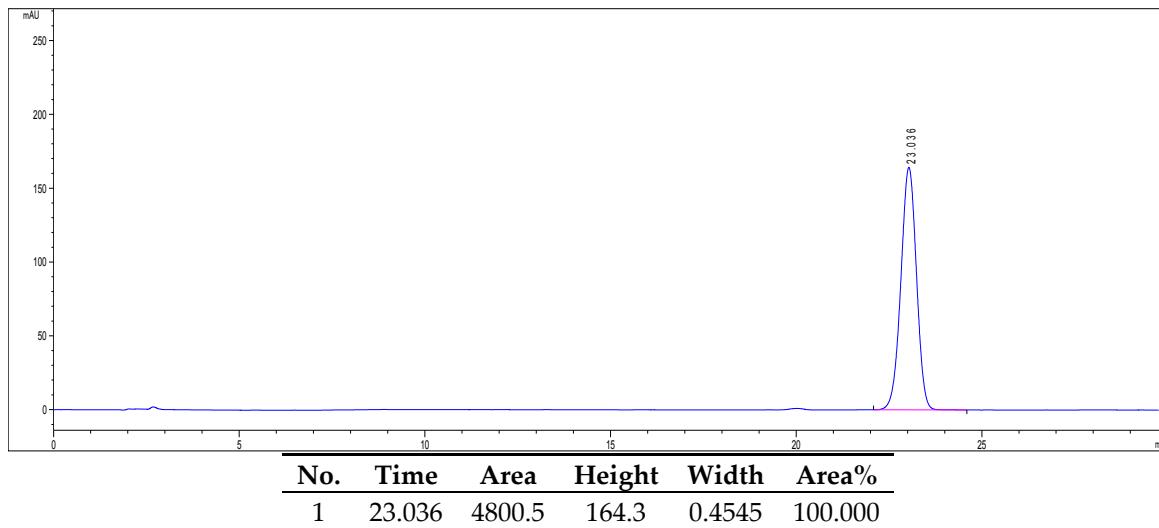


Figure S29. HPLC profile of compound 1. Mobile phase of 40% acetonitrile, Time = 30 min.

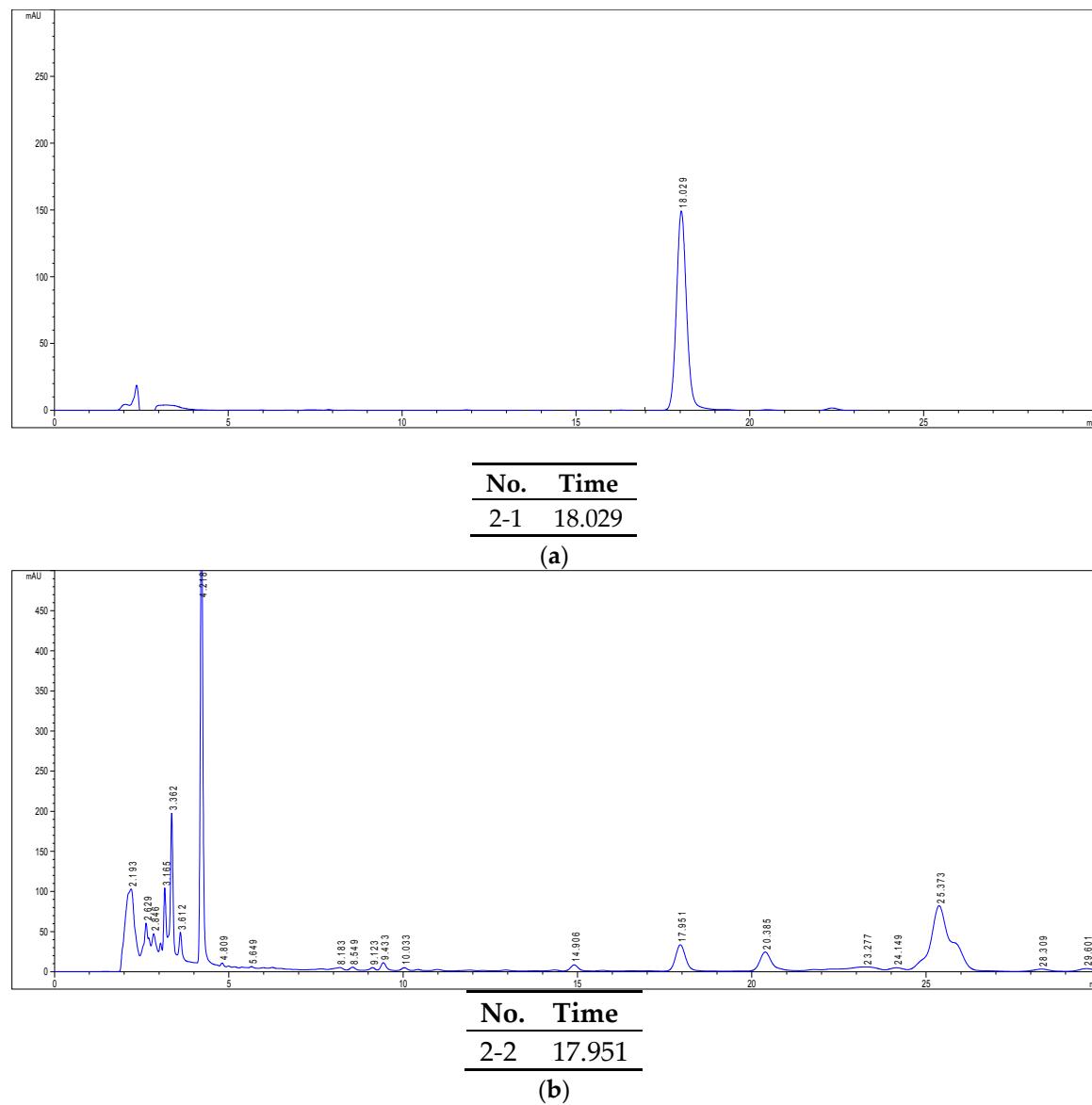


Figure S30. HPLC profile of compound 2 (a) and acetone extract of *A. yunnanensis* (b). Mobile phase of 40% acetonitrile, Time = 30 min. Compound 2 is a natural chemical constituent, which is identified by HPLC.

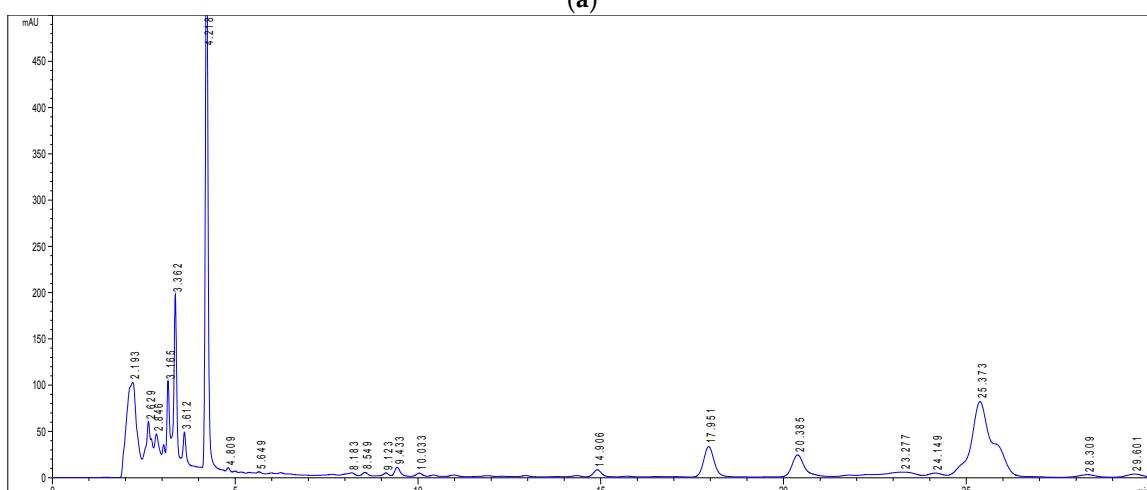
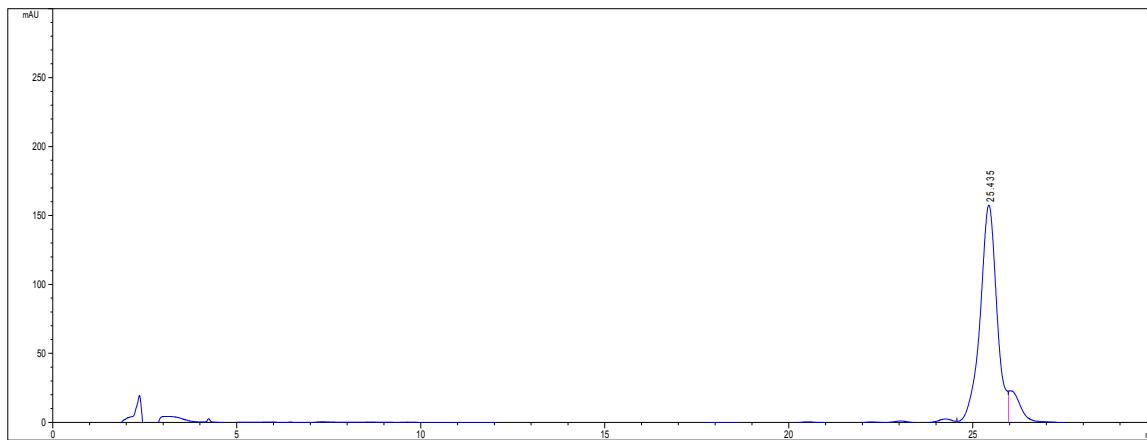


Figure S31. HPLC profile of compound 3 (a) and acetone extract of *A. yunnanensis* (b). Mobile phase of 40% acetonitrile, Time = 30 min. Compound 3 is a natural chemical constituent, which is identified by HPLC.

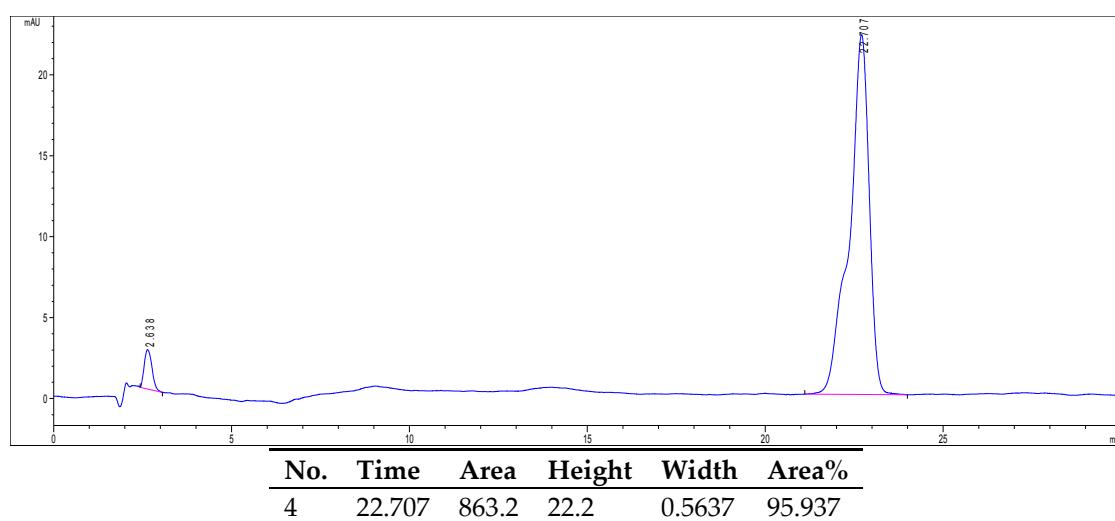


Figure S32. HPLC profile of compound 4. Mobile phase of 40% acetonitrile, Time = 30 min.