Supplementary Materials: Cytotoxic and *N*-acetyltransferase inhibitory Meroterpenoids from *Ganoderma cochlear*

Li-Zhi Cheng [1,2,†], Fu-Ying Qin [2,3†], Xiao-Chi Ma[4], Shu-Mei Wang[1], Yong-Ming Yan[2], and Yong-Xian Cheng [1,2,*]

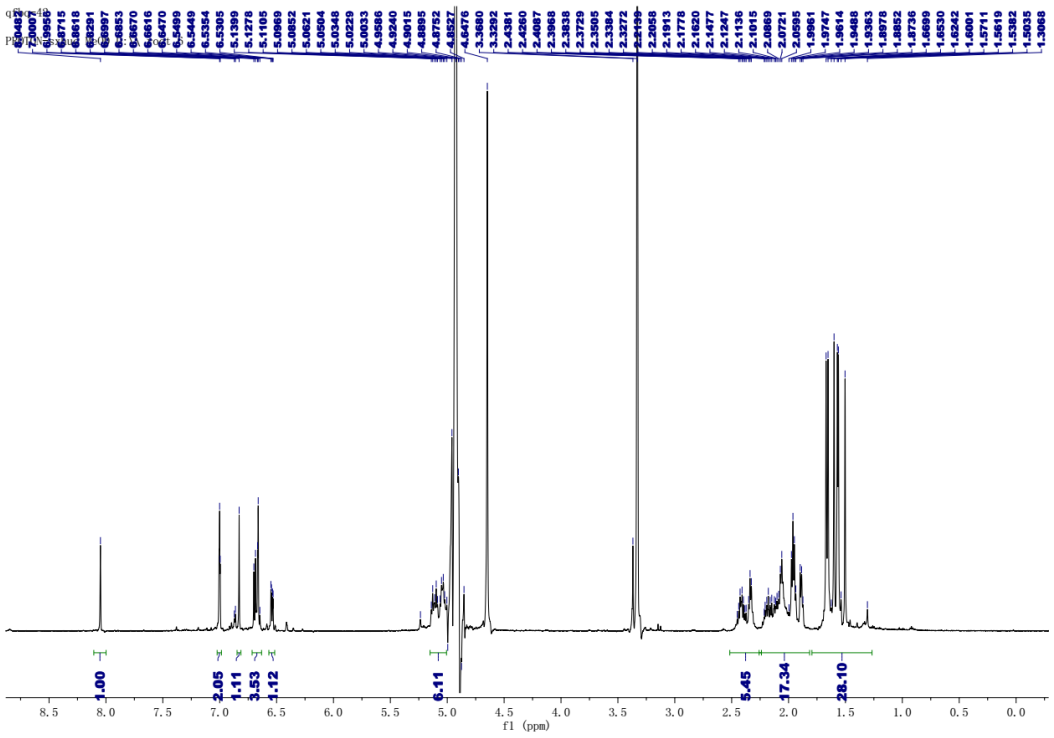


Figure S1.[1]H NMR spectrum of **1** in methanol-d_4

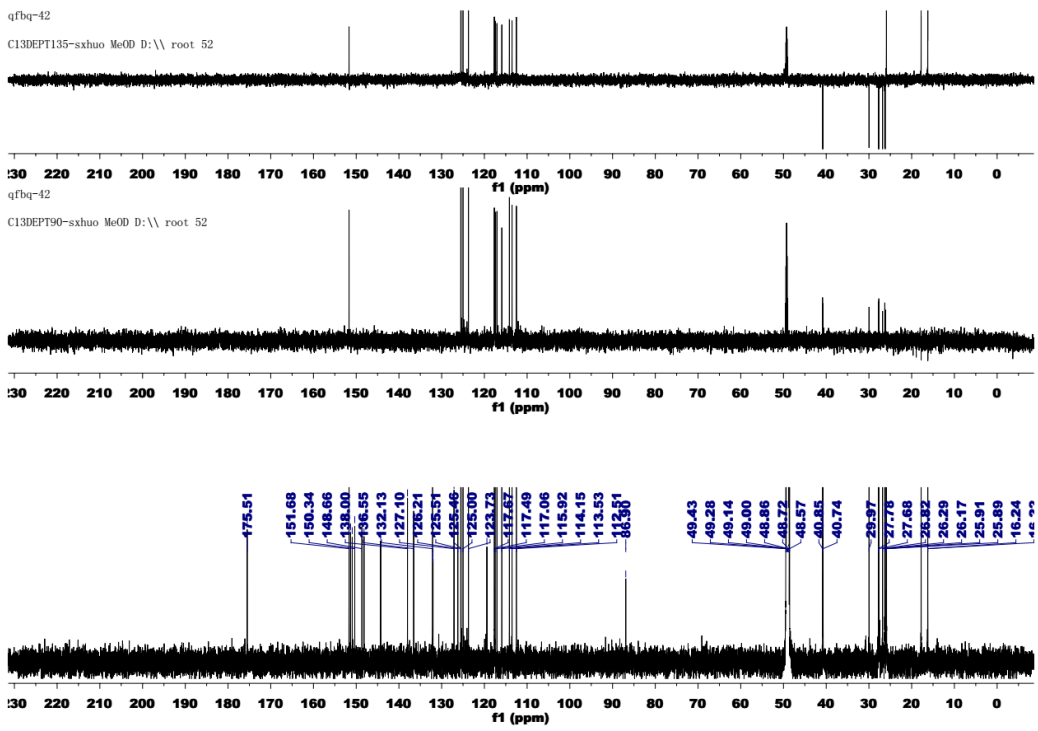


Figure S2. ^{13}C NMR and DEPT spectra of **1** in methanol-d_4

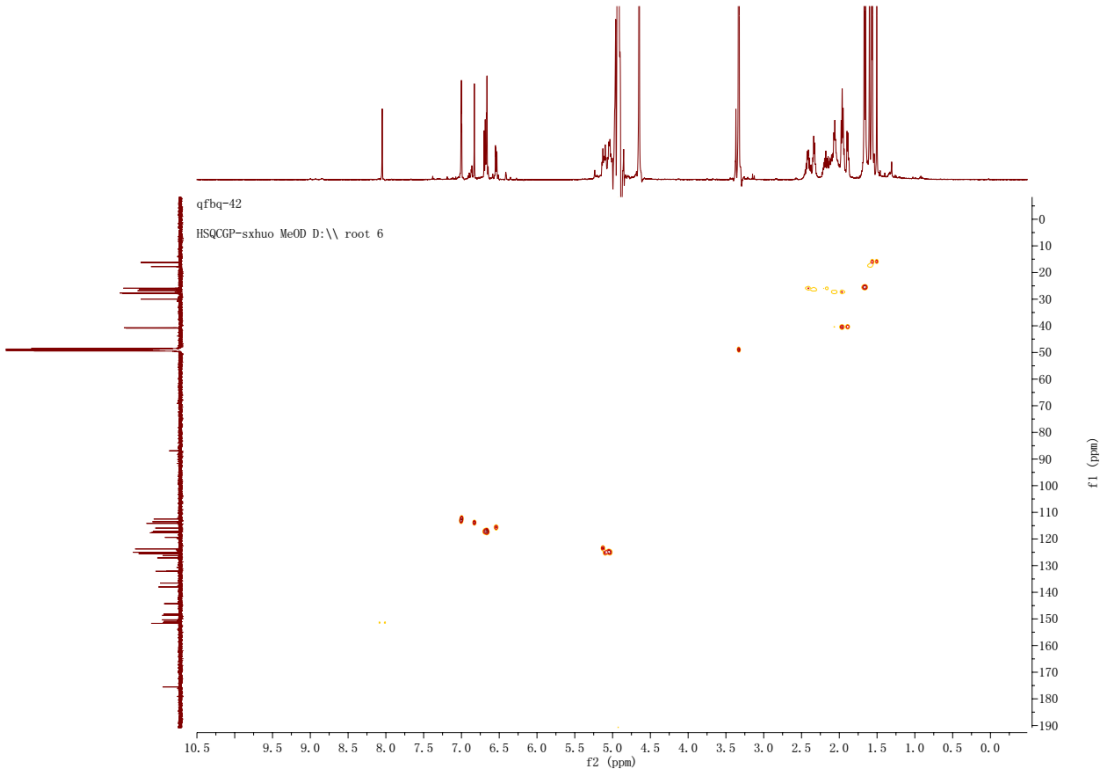


Figure S3. HSQC spectrum of **1** in methanol-d_4

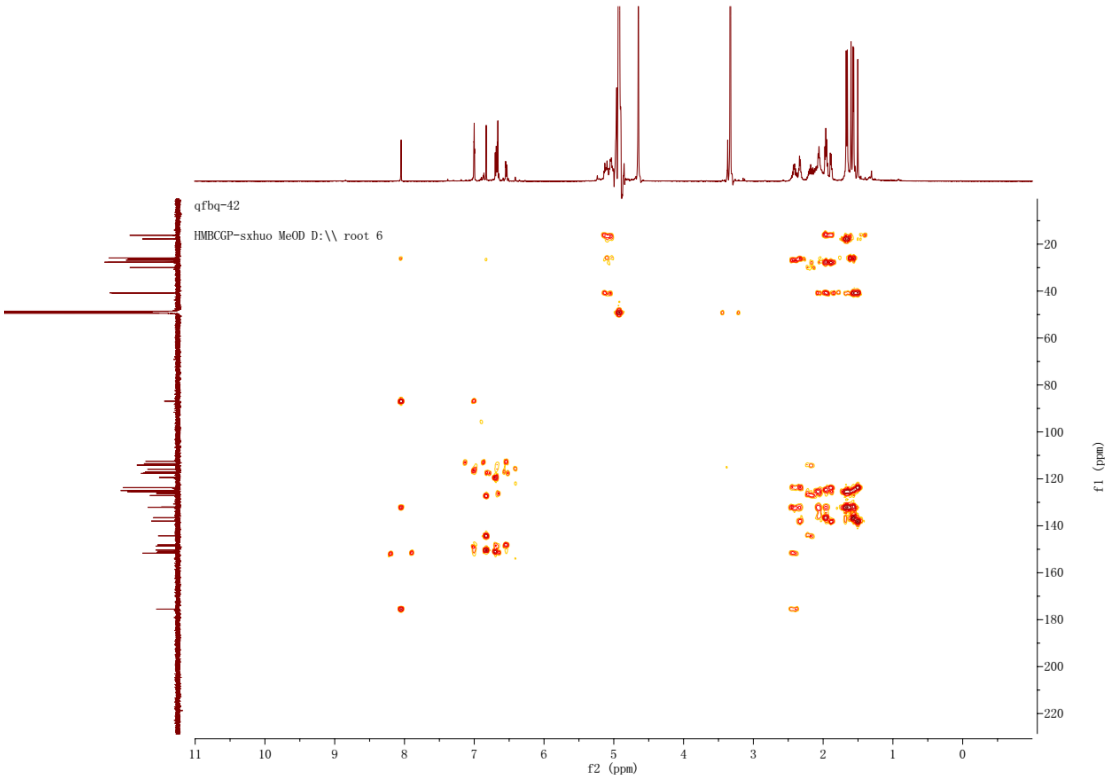


Figure S4. HMBC spectrum of **1** in methanol-d_4

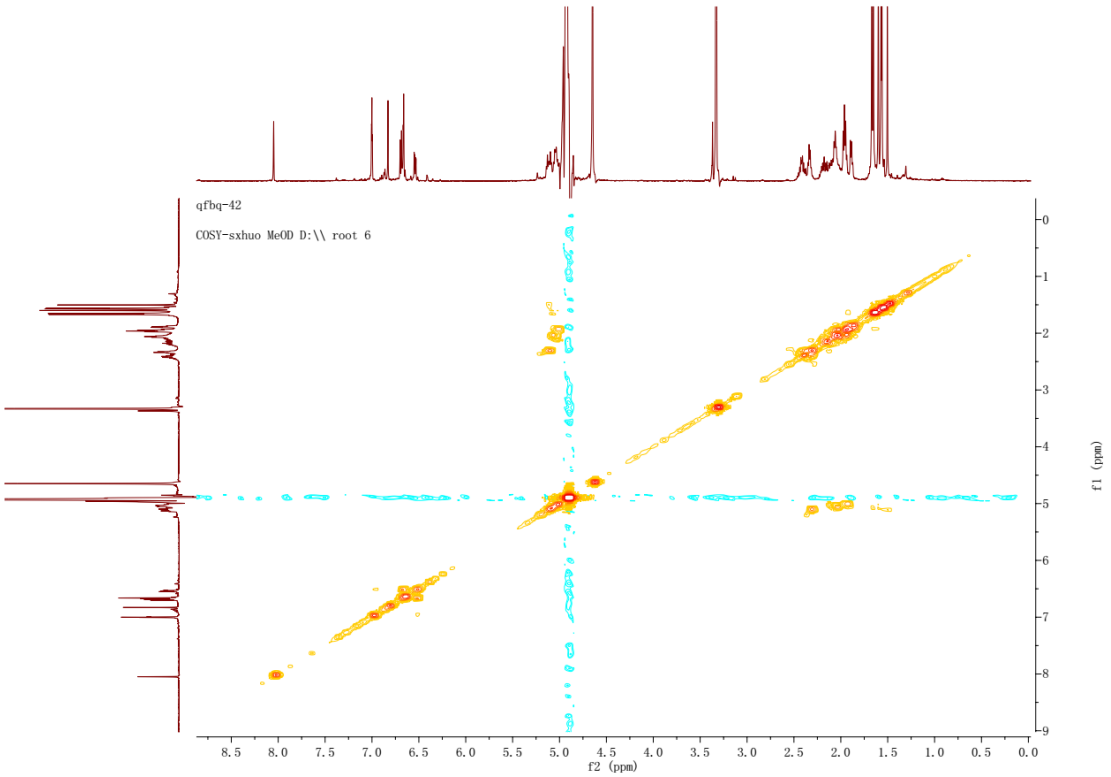


Figure S5. ^{1}H-^{1}H COSY spectrum of **1** in methanol-d_4

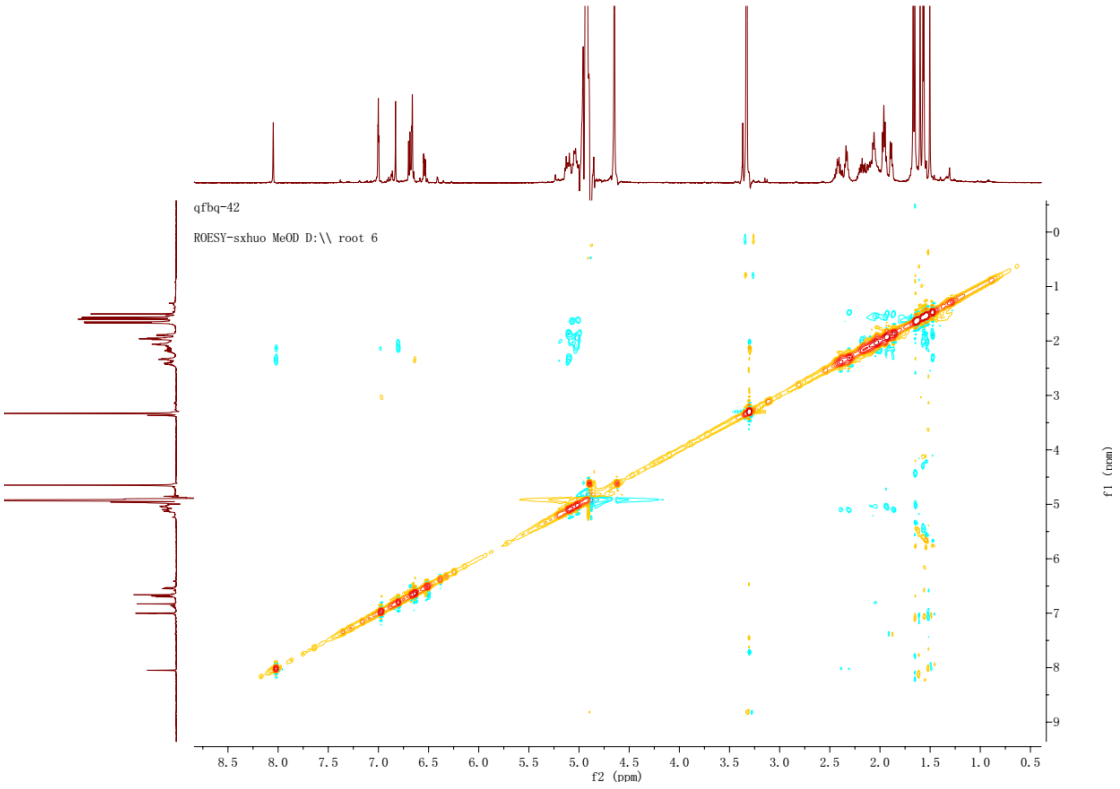


Figure S6. ROESY spectrum of **1** in methanol-d_4

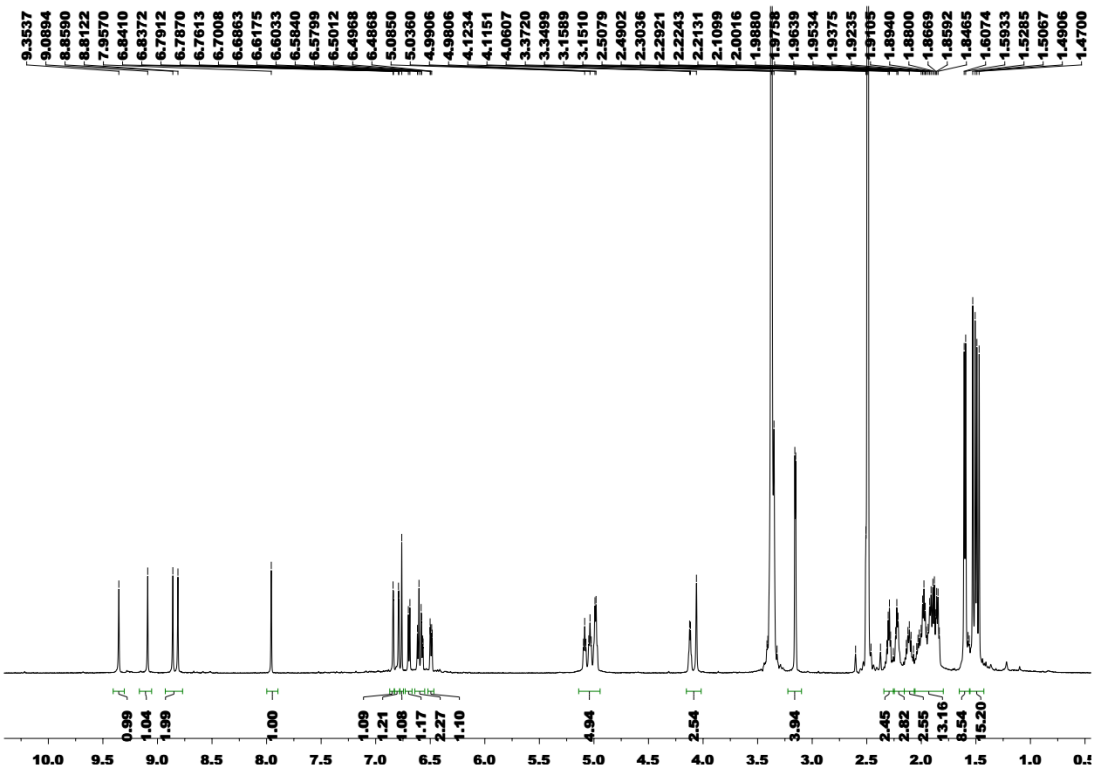


Figure S7.^{1}H NMR spectrum of **1** in DMSO-d_6

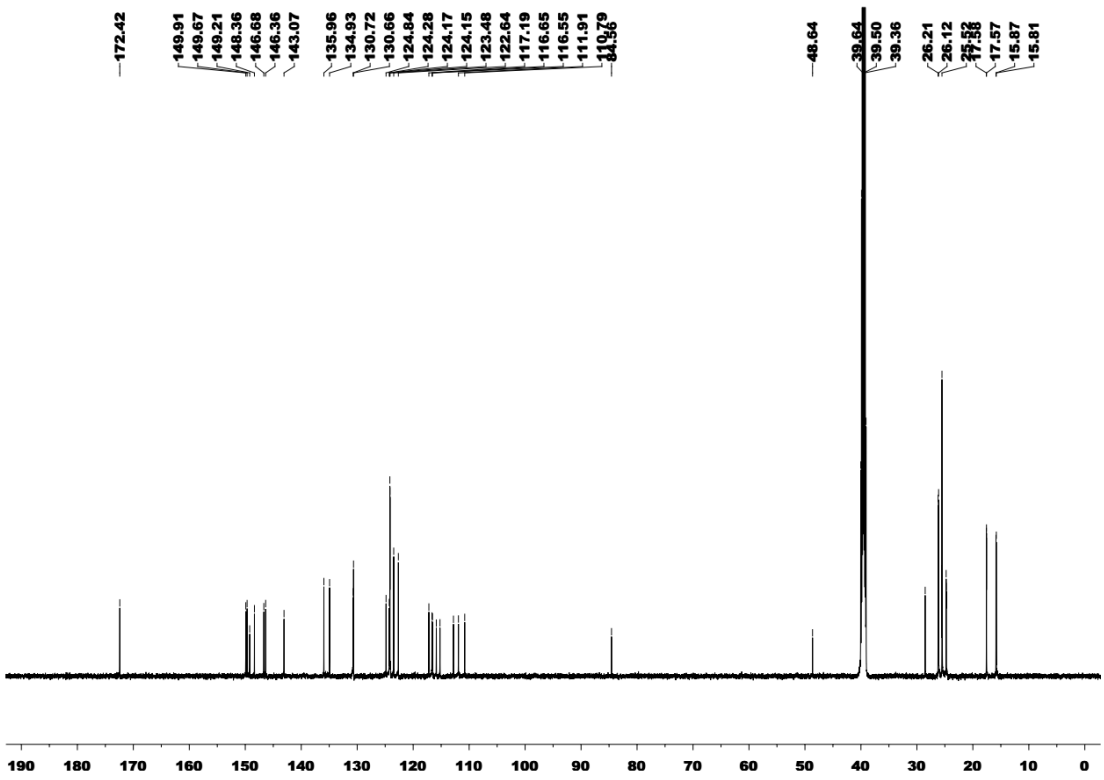


Figure S8. ^{13}C NMR spectrum of **1** in DMSO-d_6

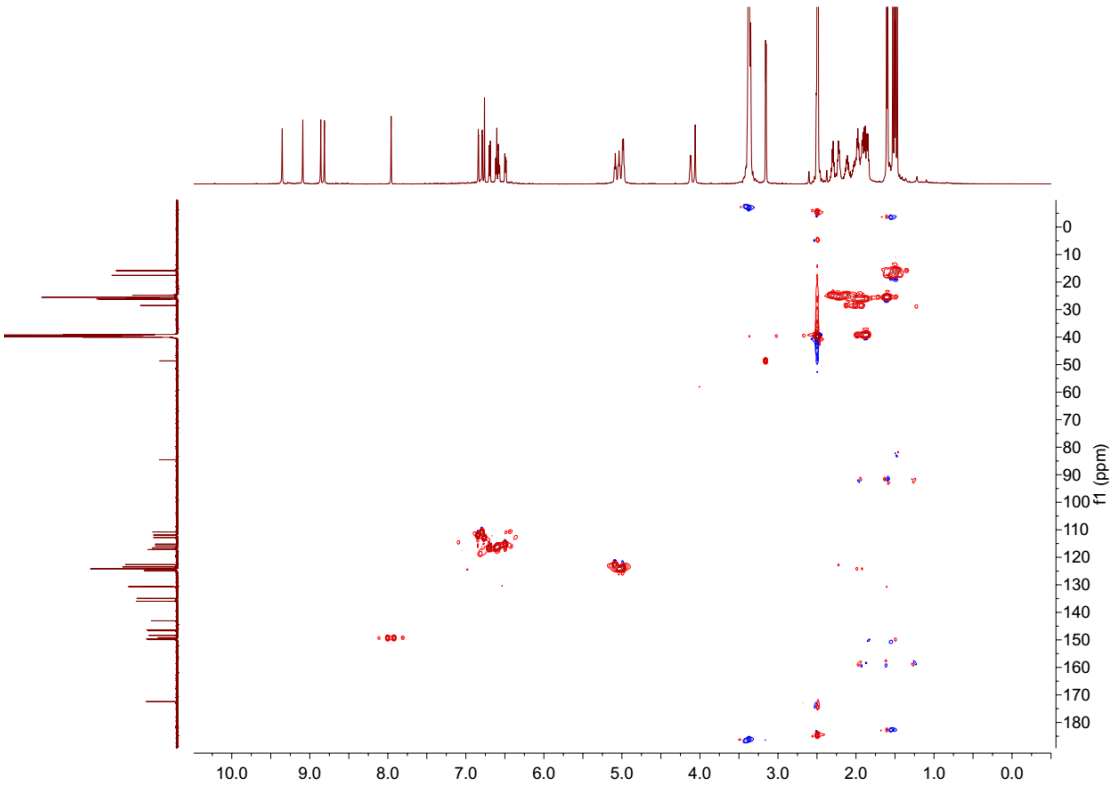


Figure S9. HSQC spectrum of **1** in DMSO-d_6

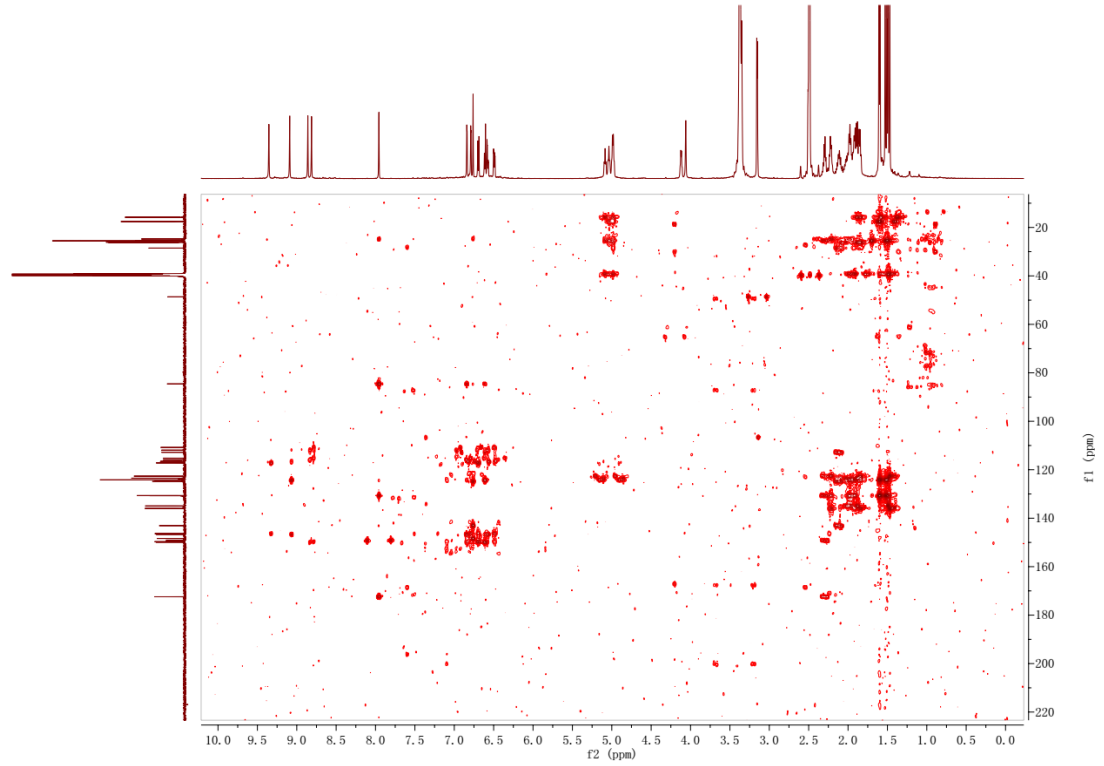


Figure S10. HMBC spectrum of **1** in DMSO-d_6

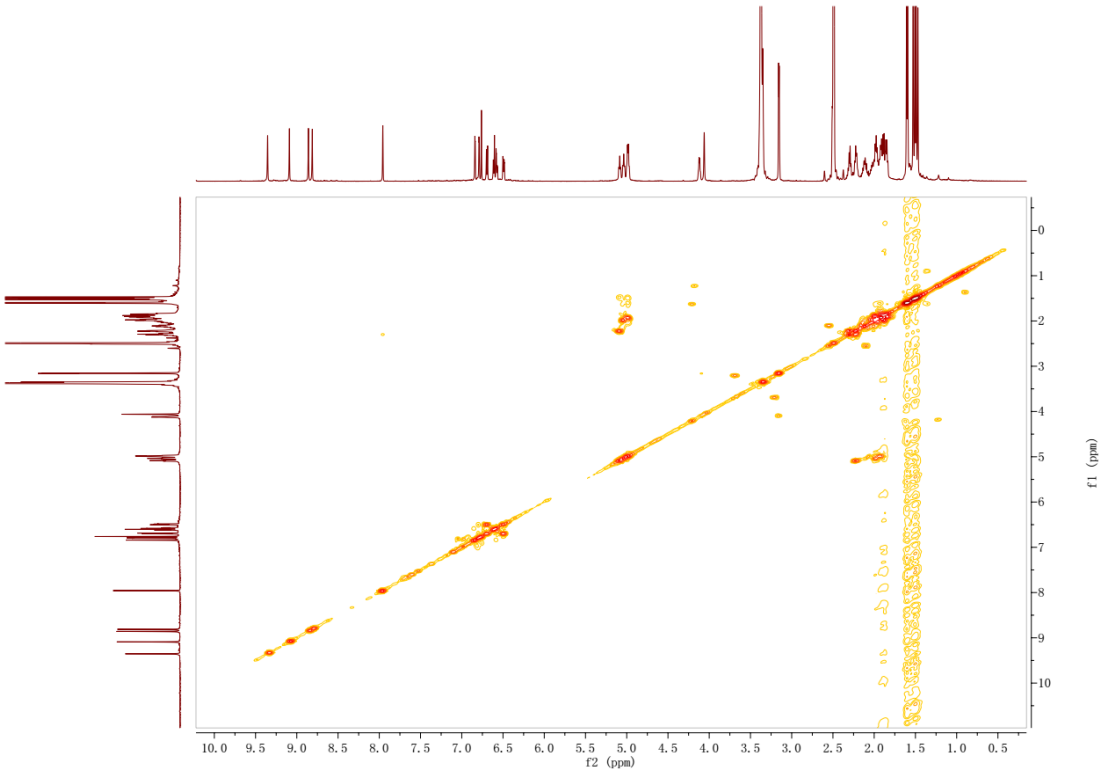


Figure S11. H^1-H^1 COSY spectrum of **1** in DMSO-d_6

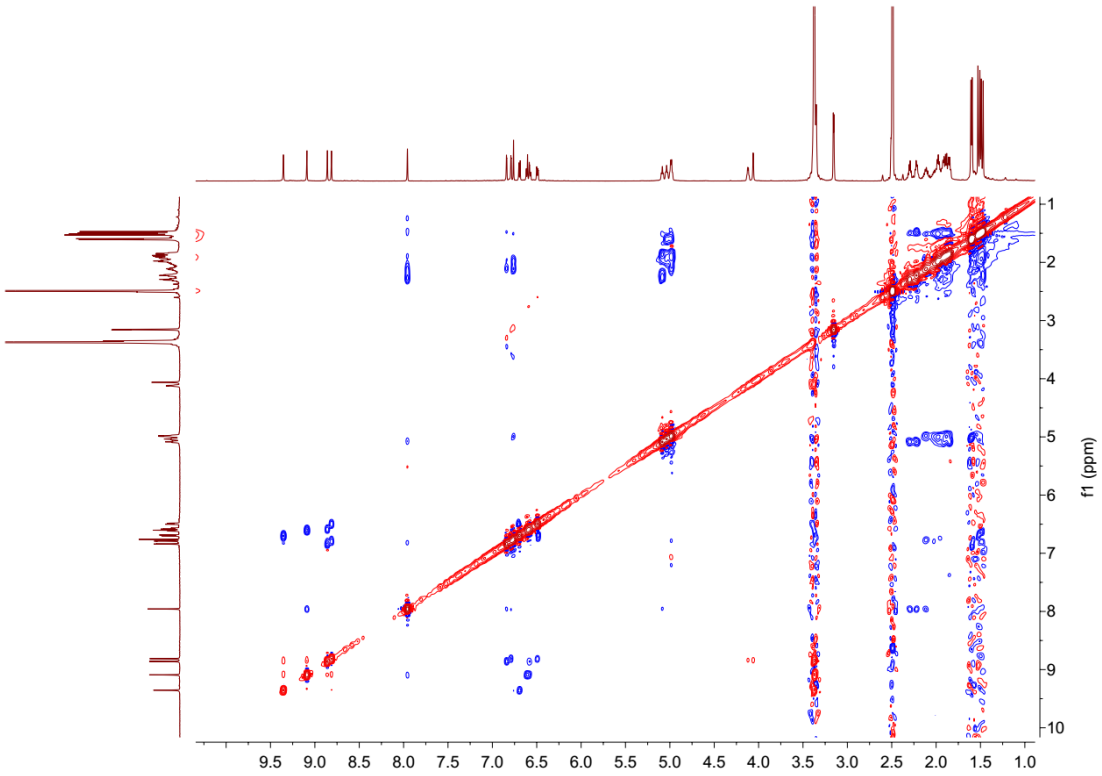


Figure S12. ROESY spectrum of **1** in DMSO-d_6

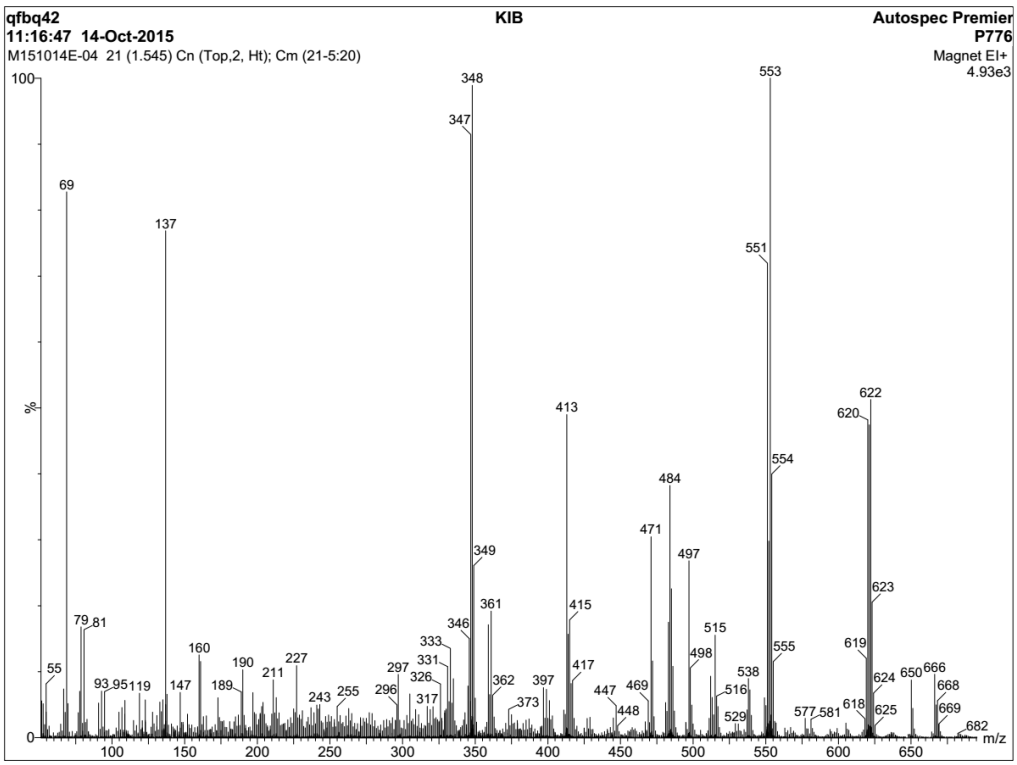
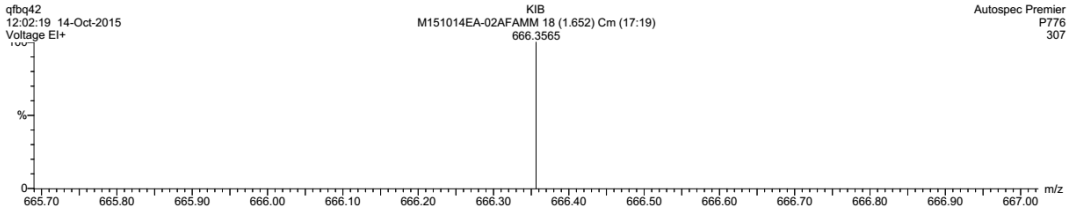


Figure S13. EIMS of **1**

Elemental Composition Report **Page 1**

Single Mass Analysis
Tolerance = 10.0 PPM / DBE: min = -10.0, max = 120.0
Selected filters: None

Monoisotopic Mass, Odd and Even Electron Ions
26 formula(e) evaluated with 1 results within limits (up to 51 closest results for each mass)
Elements Used:
C: 0-200 H: 0-400 O: 6-8



Minimum:				-10.0		
Maximum:		200.0	10.0	120.0		
Mass	Calc. Mass	mDa	PPM	DBE	i-FIT	Formula
666.3565	666.3557	0.8	1.2	18.0	5546174.5	C42 H50 O7

Figure S14. HREIMS of **1**

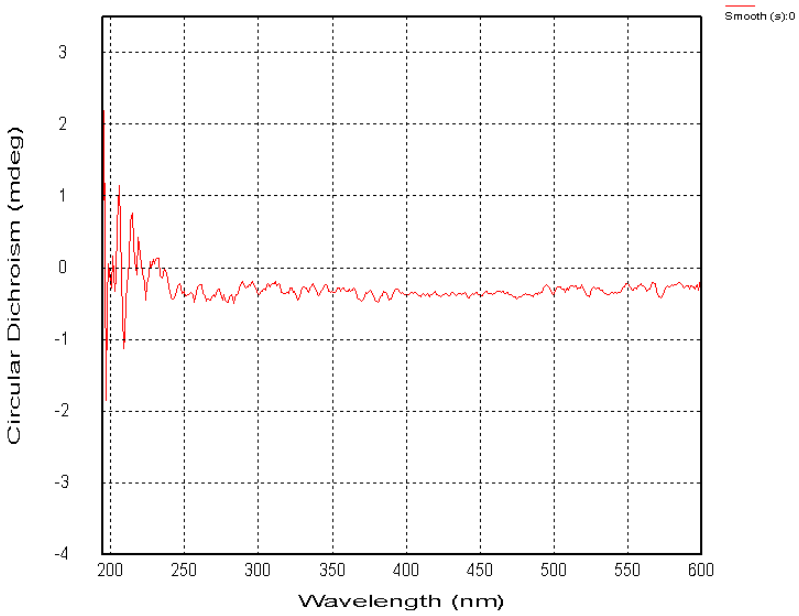


Figure S15 CD spectrum of (+)-**1**

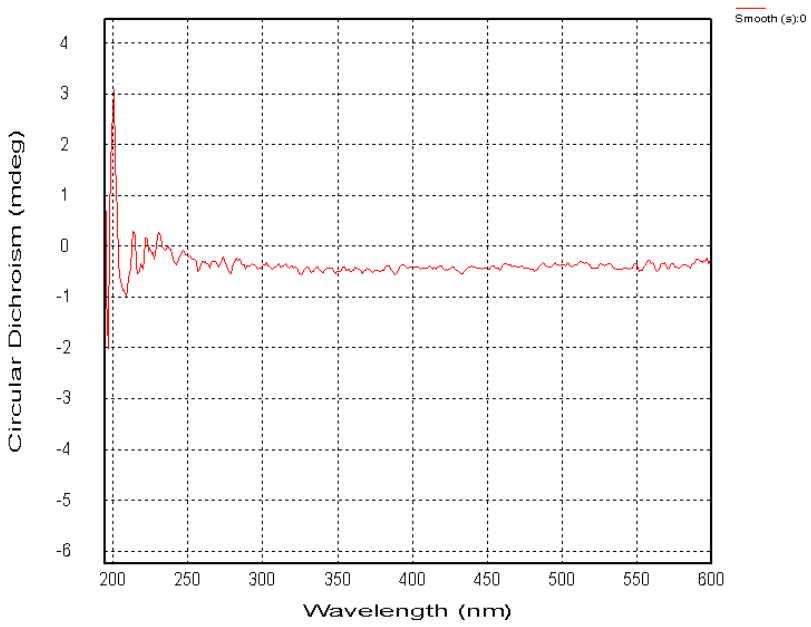


Figure S16 CD spectrum of (–)-**1**

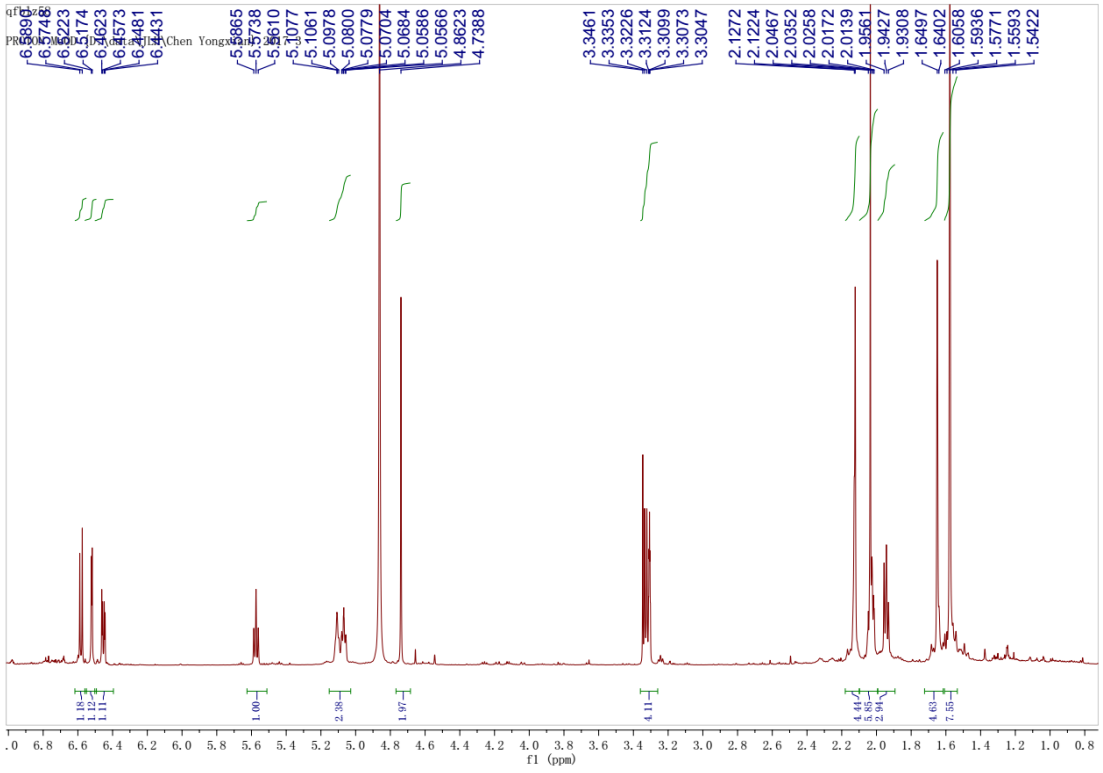


Figure S17. ^{1}H NMR spectrum of **2** in methanol-d_4

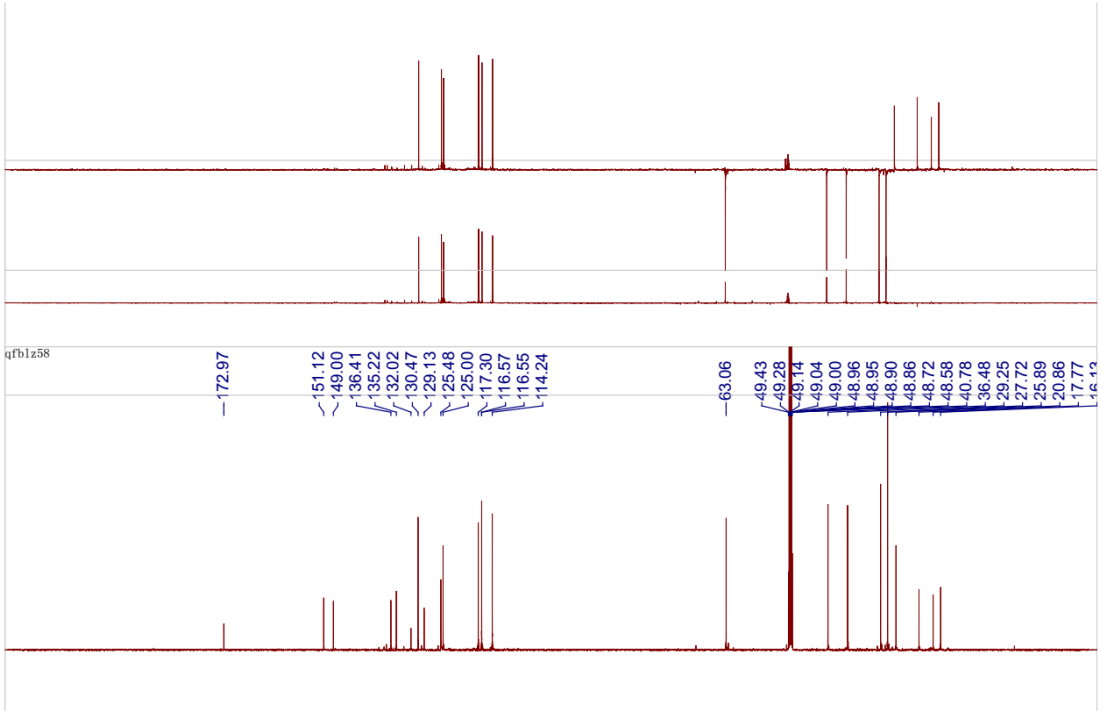


Figure S18. ^{13}C NMR and DEPT spectra of **2** in methanol-d_4

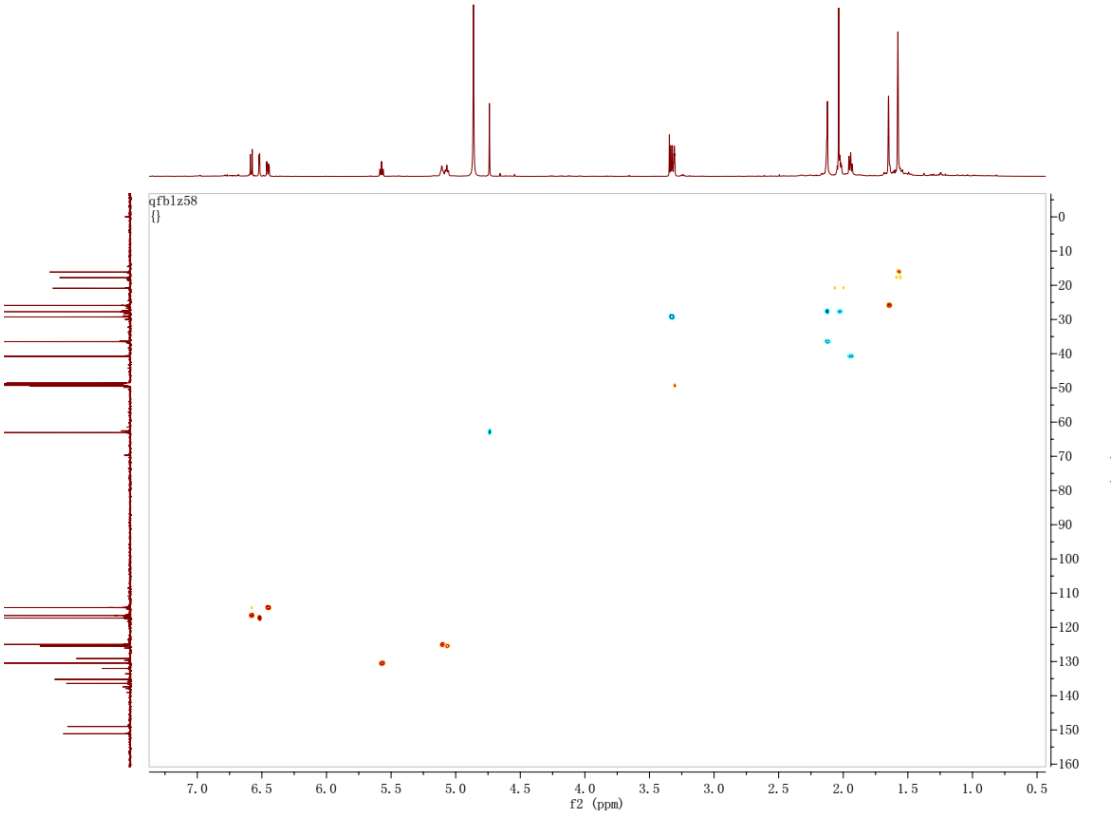


Figure S19. HSQC spectrum of **2** in methanol-d_4

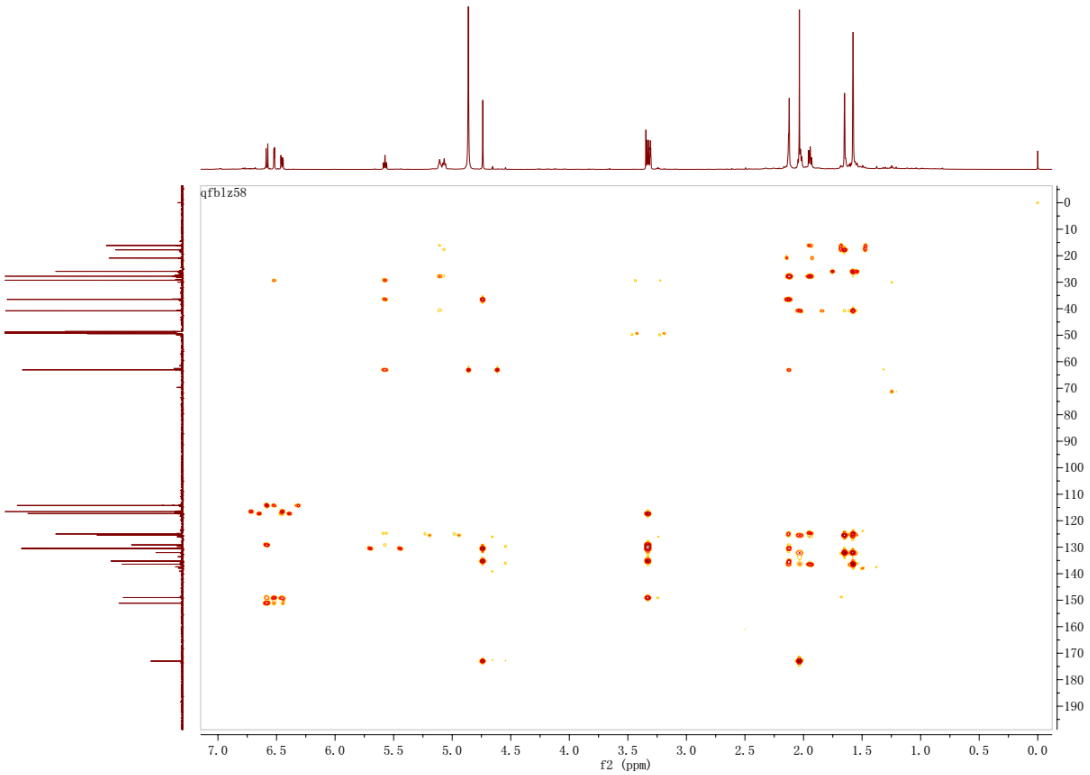


Figure S20. HMBC spectrum of **2** in methanol-d_4

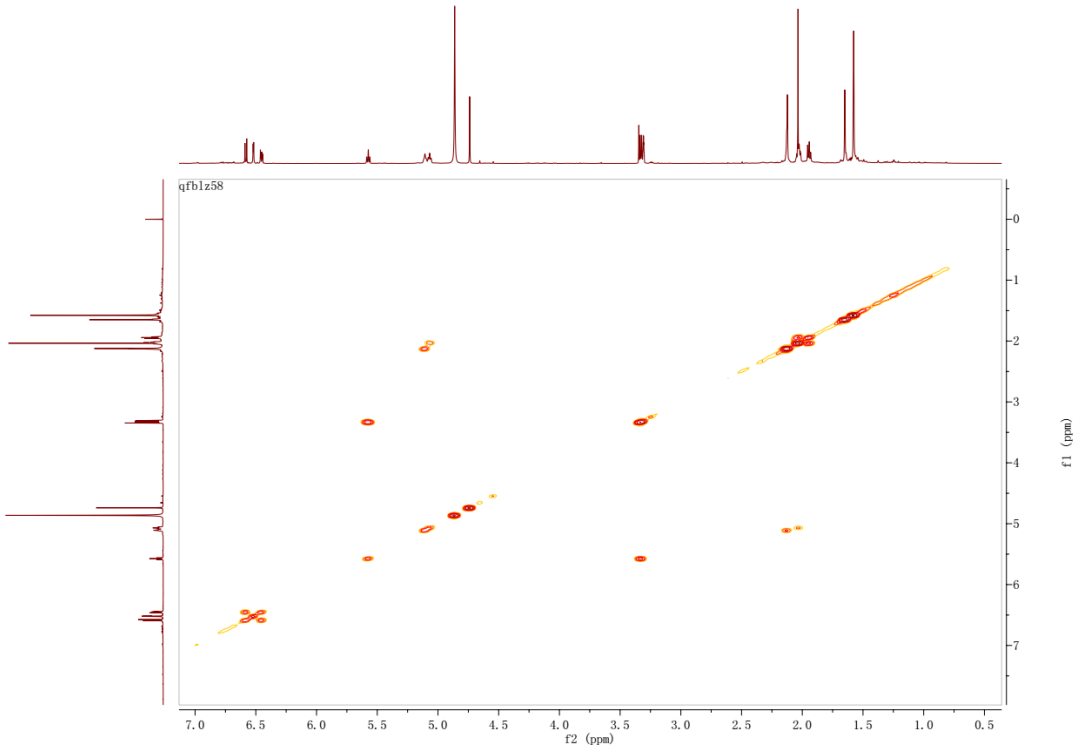


Figure S21. ^{1}H-^{1}H COSY spectrum of **2** in methanol-d_4

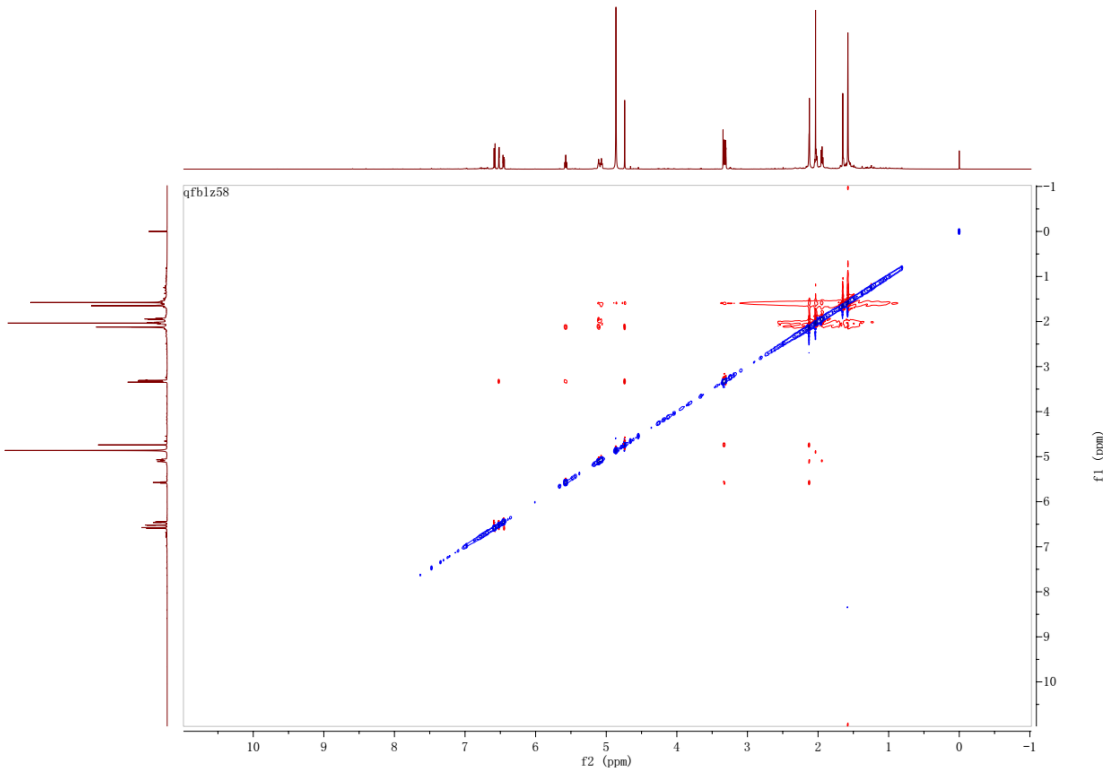
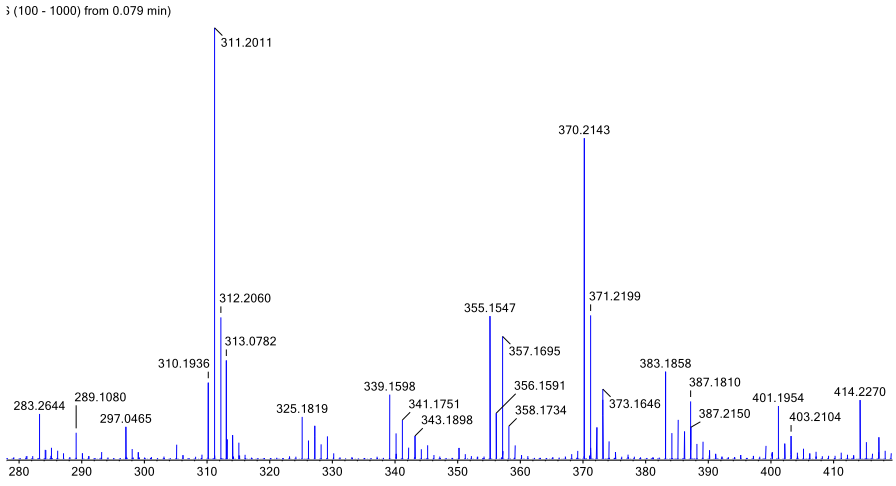


Figure S22. ROESY spectrum of **2** in methanol-d_4



$[M-H]^-$ m/z 371.2199

Hit	Formula	m/z	RDB	ppm
1	C23H31O4	371.2228	8.0	-7.8

Figure S23. HRESIMS of **2**

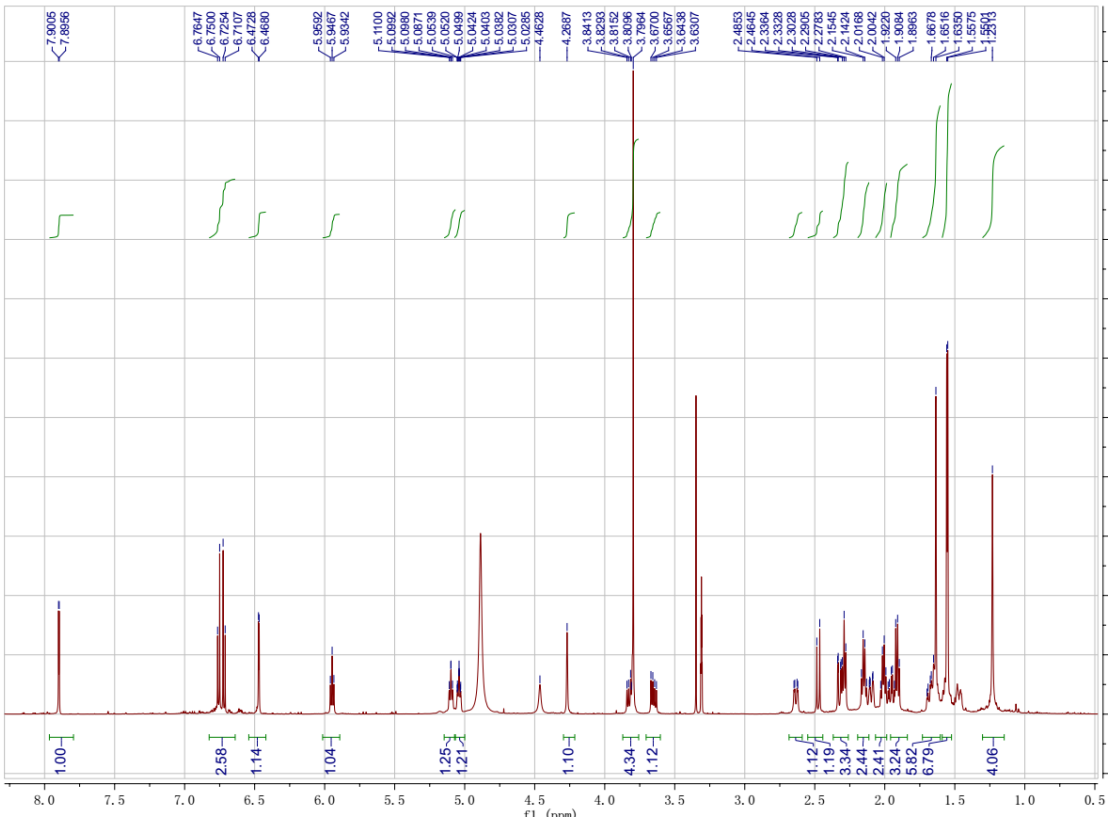


Figure S24.[1]H NMR spectrum of **3** in methanol-d_4

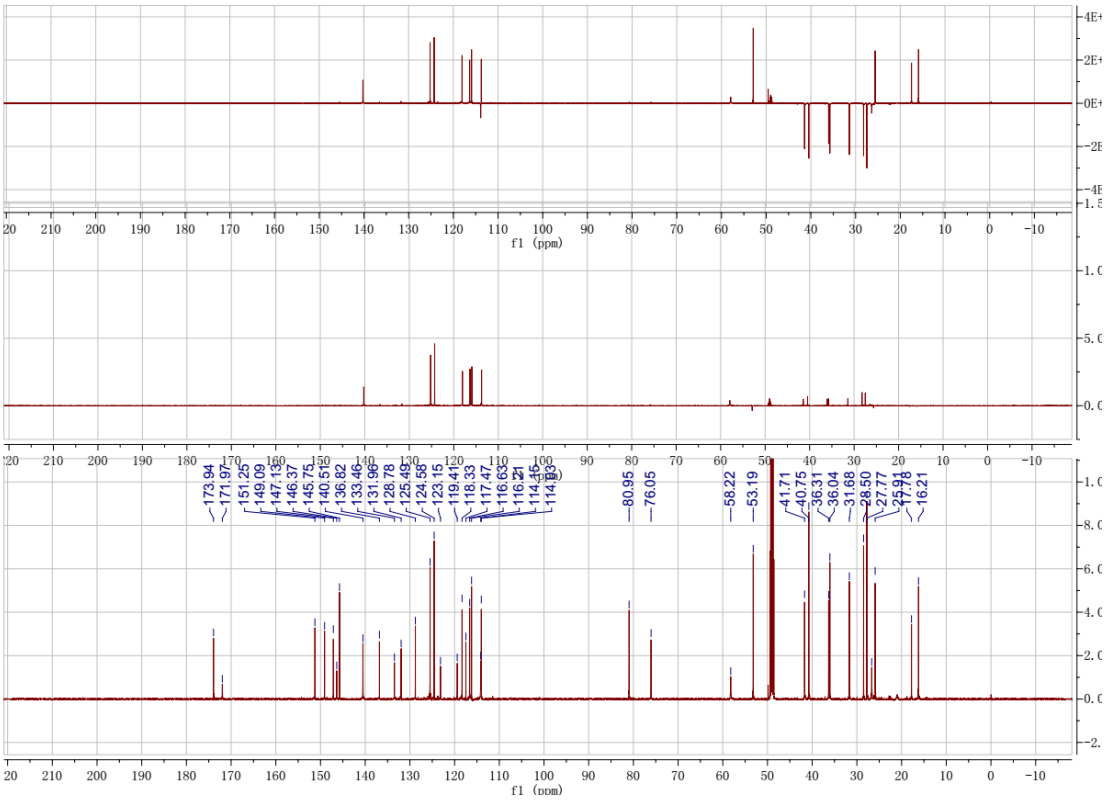


Figure S25. ^{13}C NMR and DEPT spectra **3** in methanol-d_4

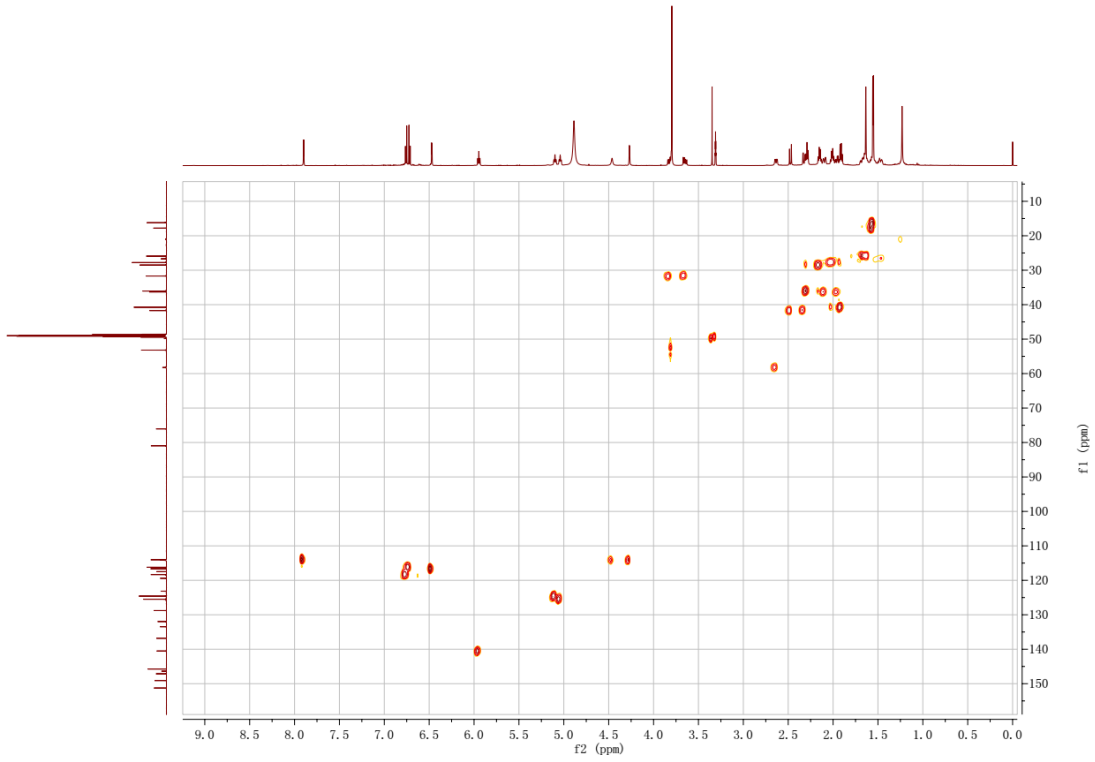


Figure S26. HSQC spectrum of **3** in methanol-d_4

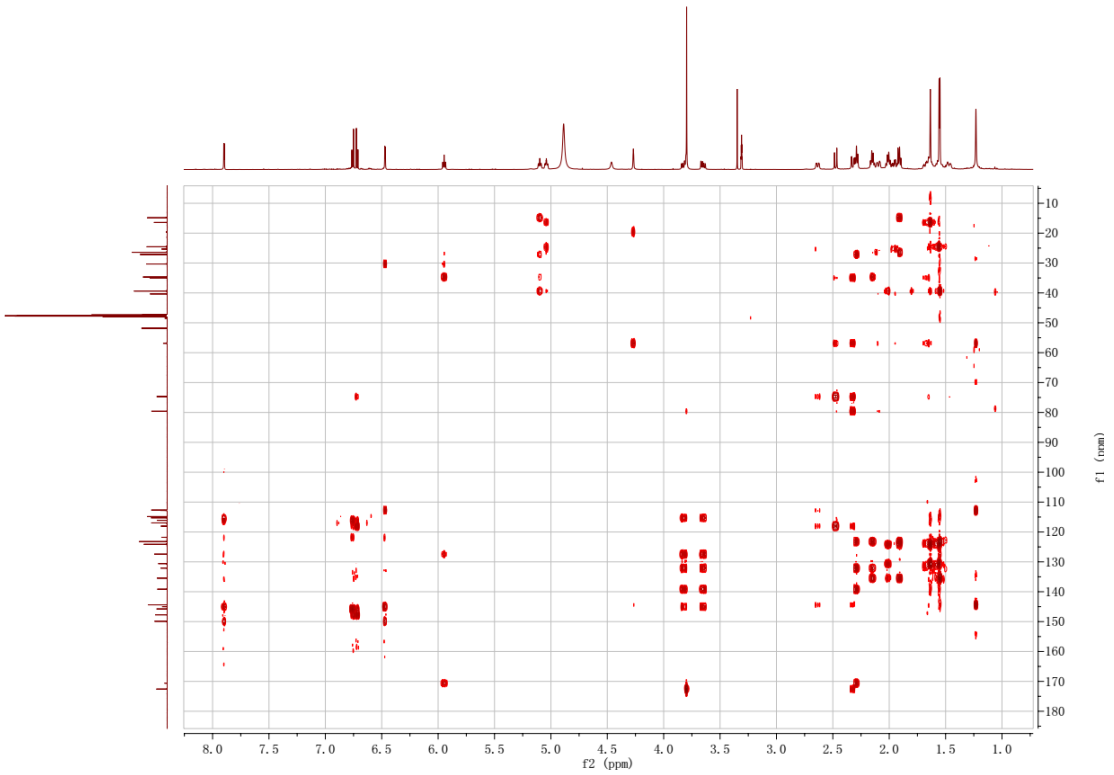


Figure S27. HMBC spectrum of **3** in methanol-d_4

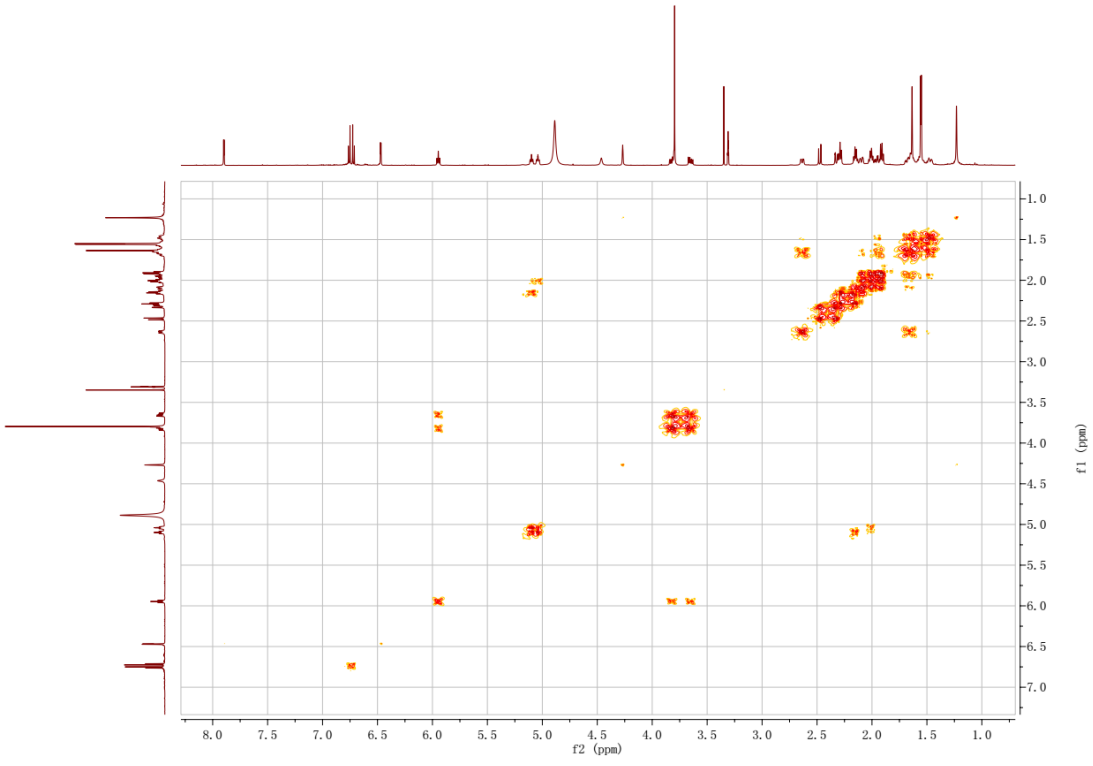


Figure S28. ^{1}H-^{1}H COSY spectrum of **3** in Methanol-d_4

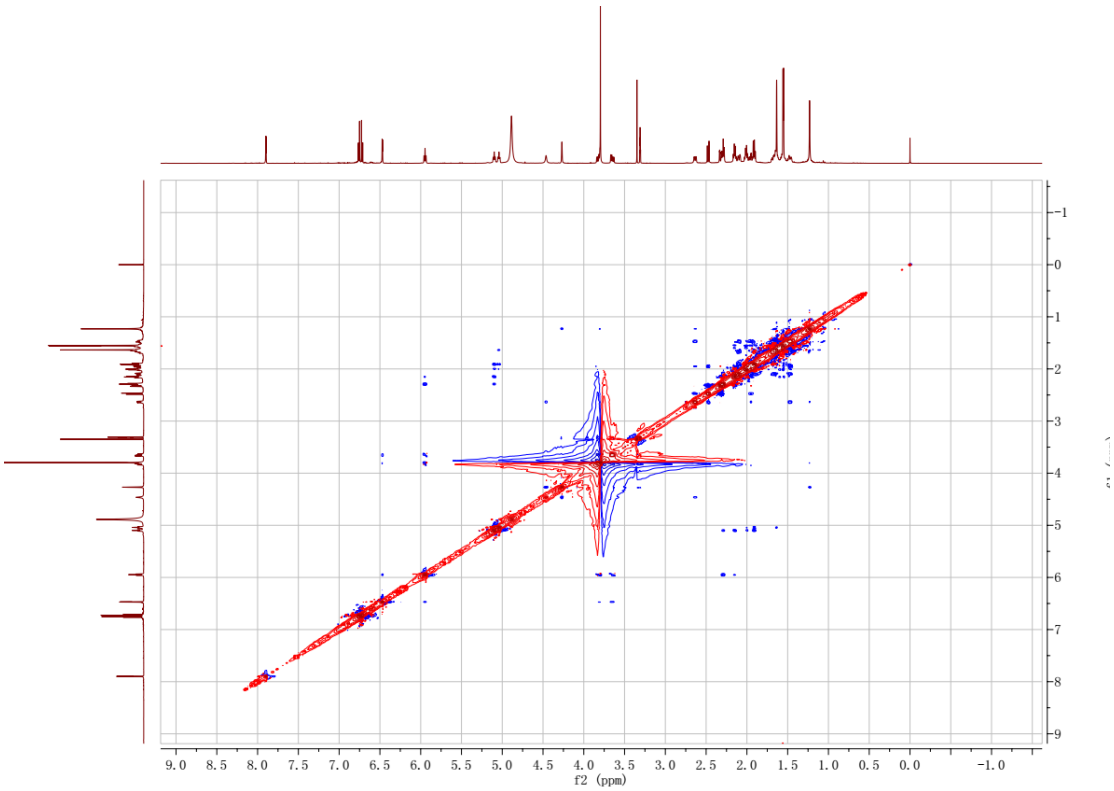


Figure S29. ROESY spectrum of **3** in methanol-d_4

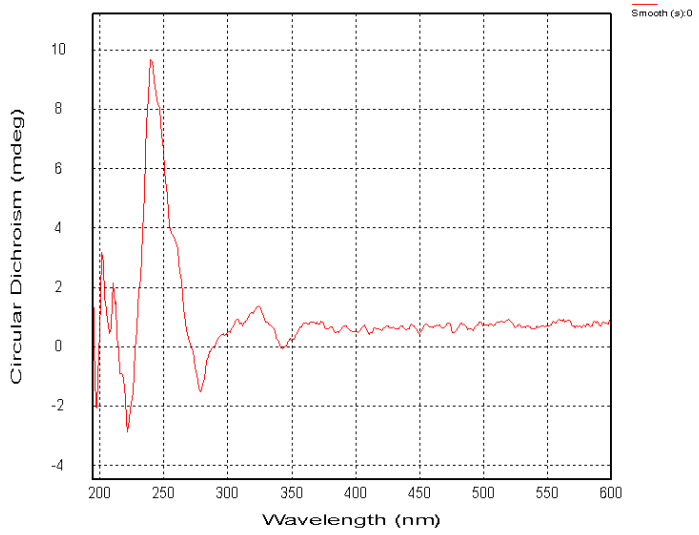


Figure S30 CD spectrum of (+)-**3**

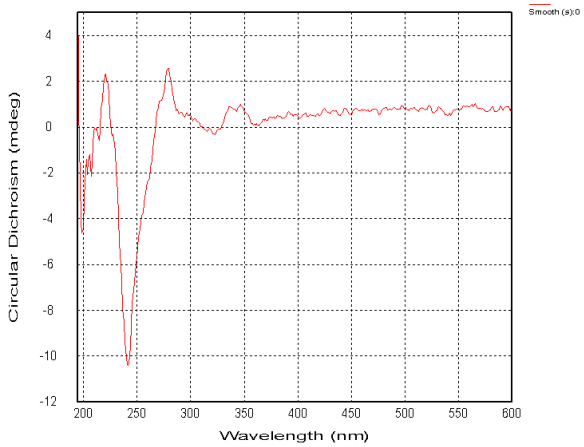
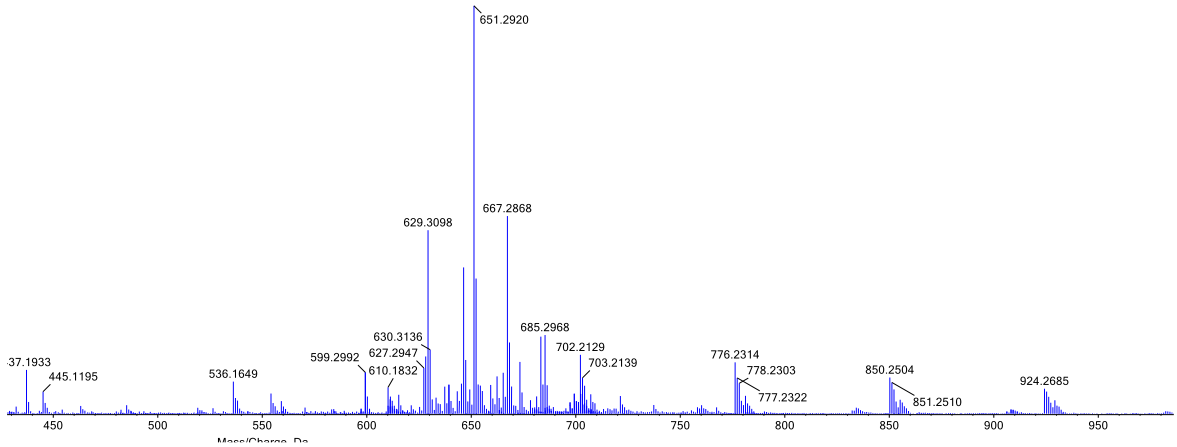


Figure S31 CD spectrum of (–)-**3**



$[M+H]^+$ m/z 629.3098

Hit	Formula	m/z	RDB	ppm
1	C38H45O8	629.3109	17.0	-1.7

Figure S32. HRESIMS of **3**

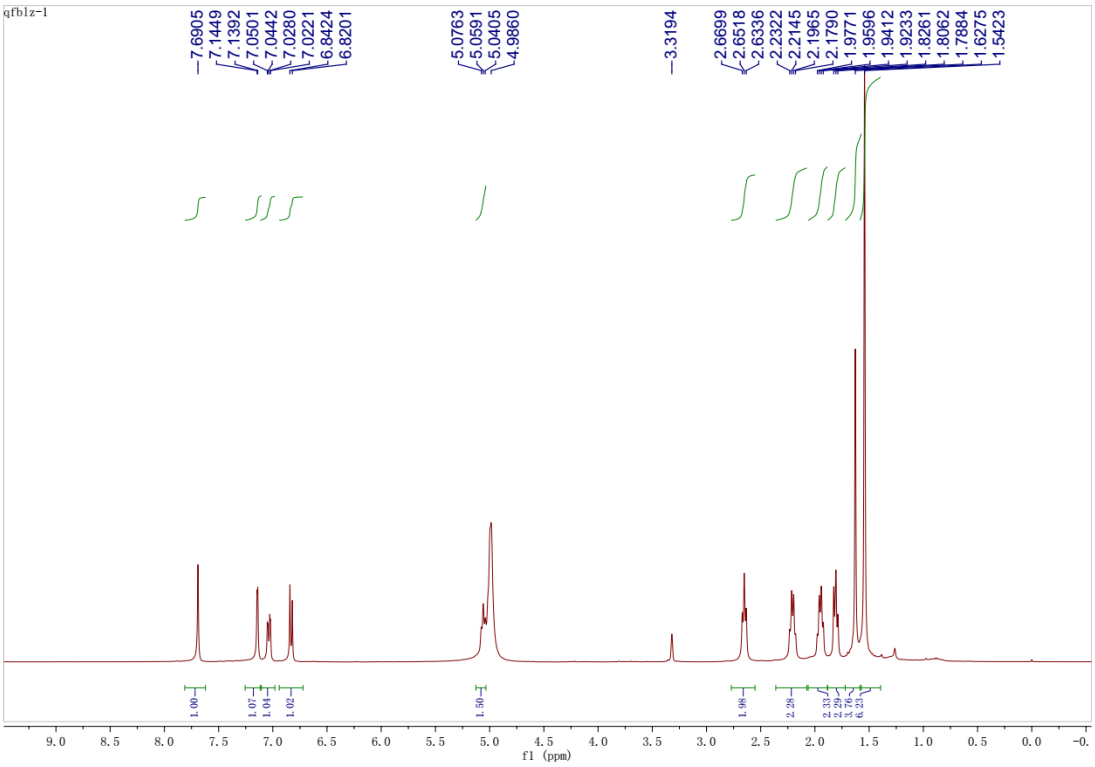


Figure S33.^{1}H NMR spectrum of **4** in methanol-d_4

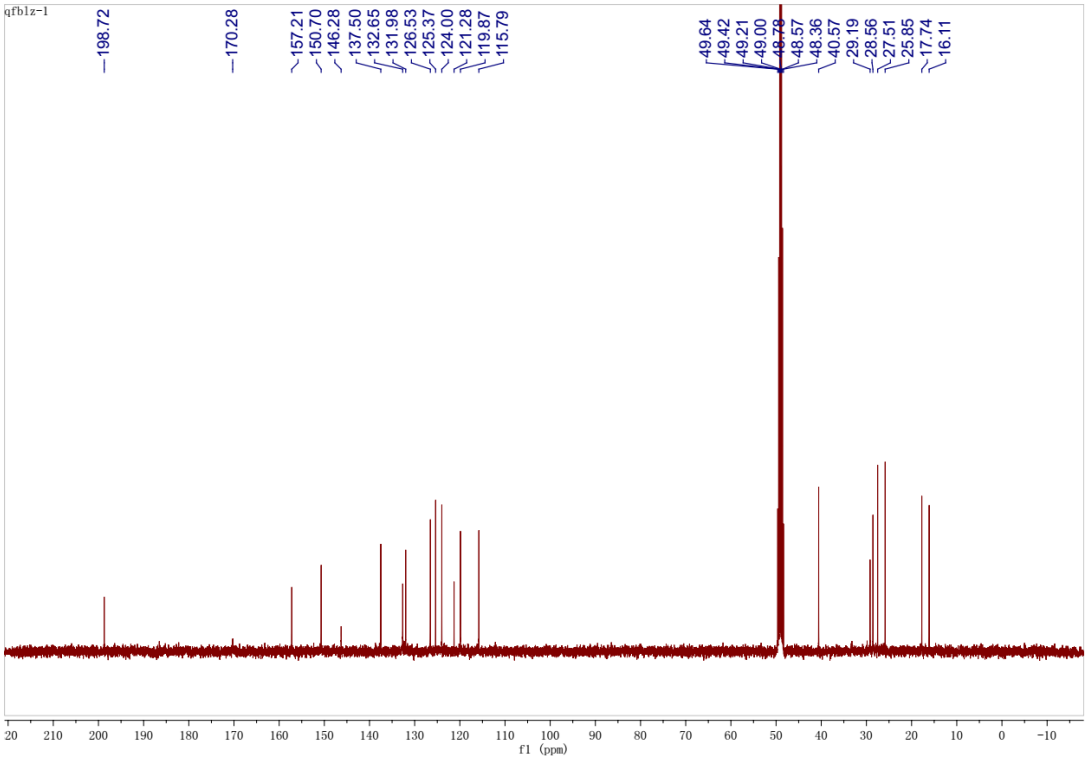


Figure S34.^{13}C NMR spectrum of **4** in methanol-d_4

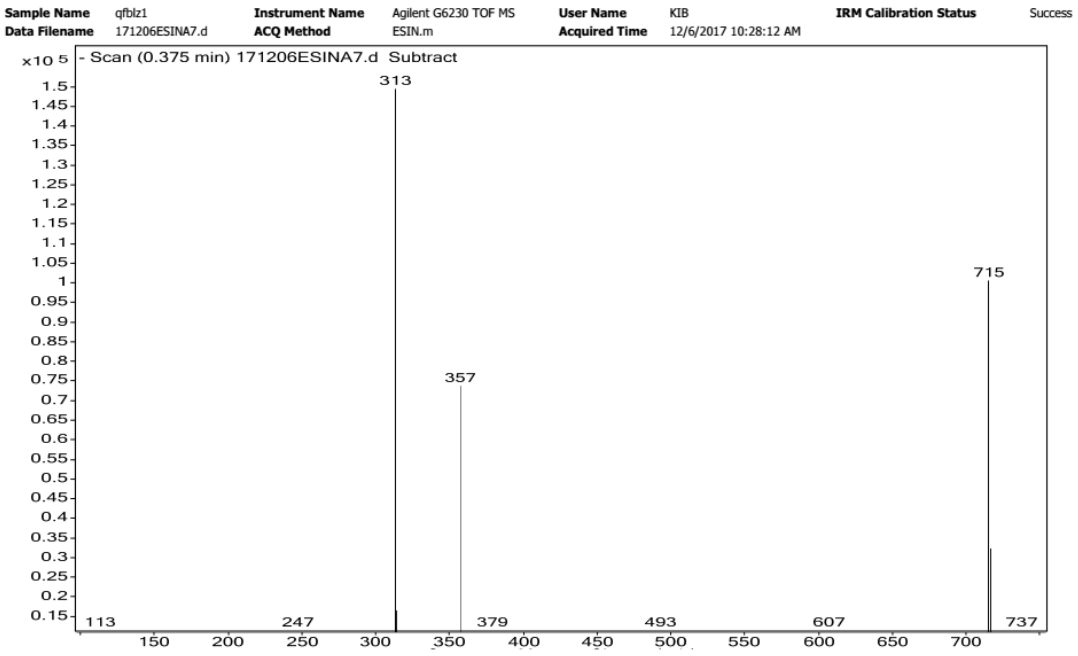


Figure S35. ESIMS of **4**

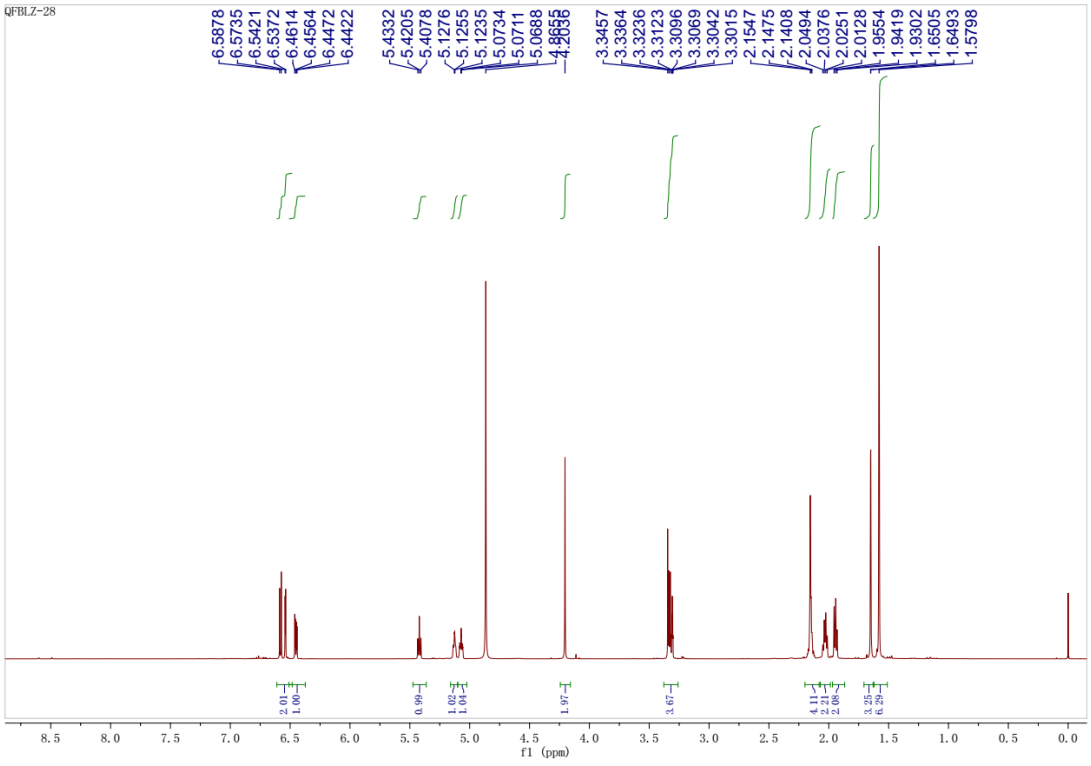


Figure S36.[1]H NMR spectrum of **5** in methanol-d_4

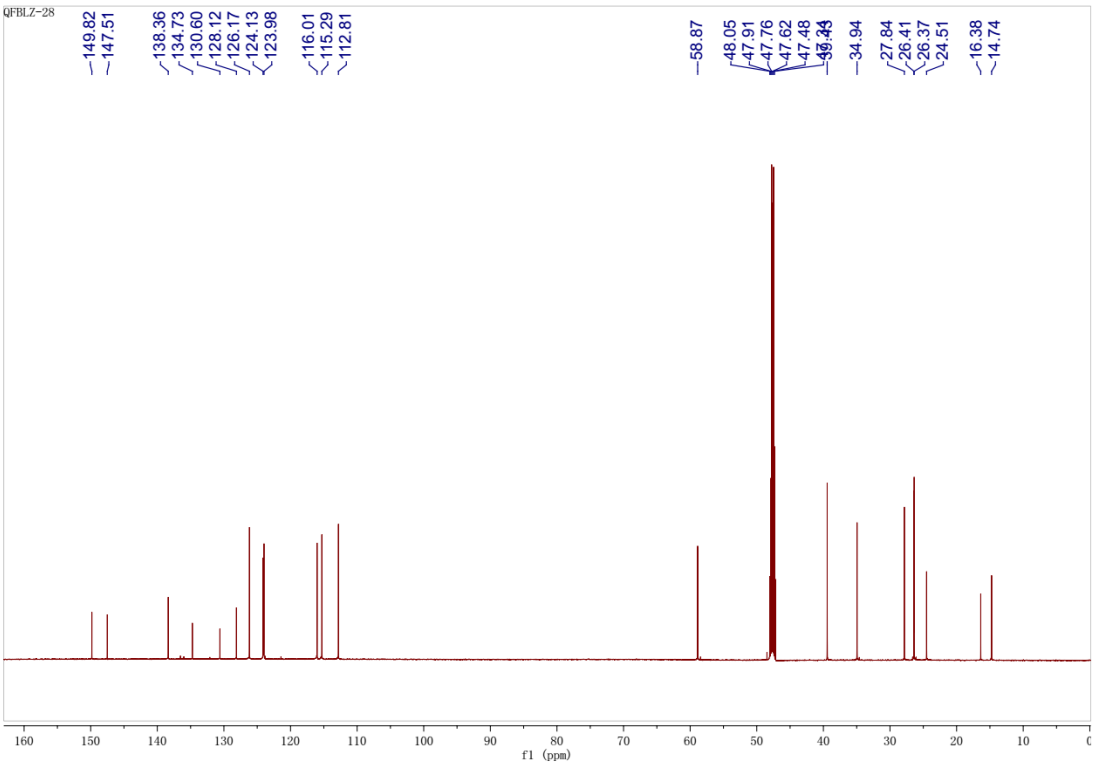


Figure S37.^{13}C NMR spectrum of **5** in methanol-d_4

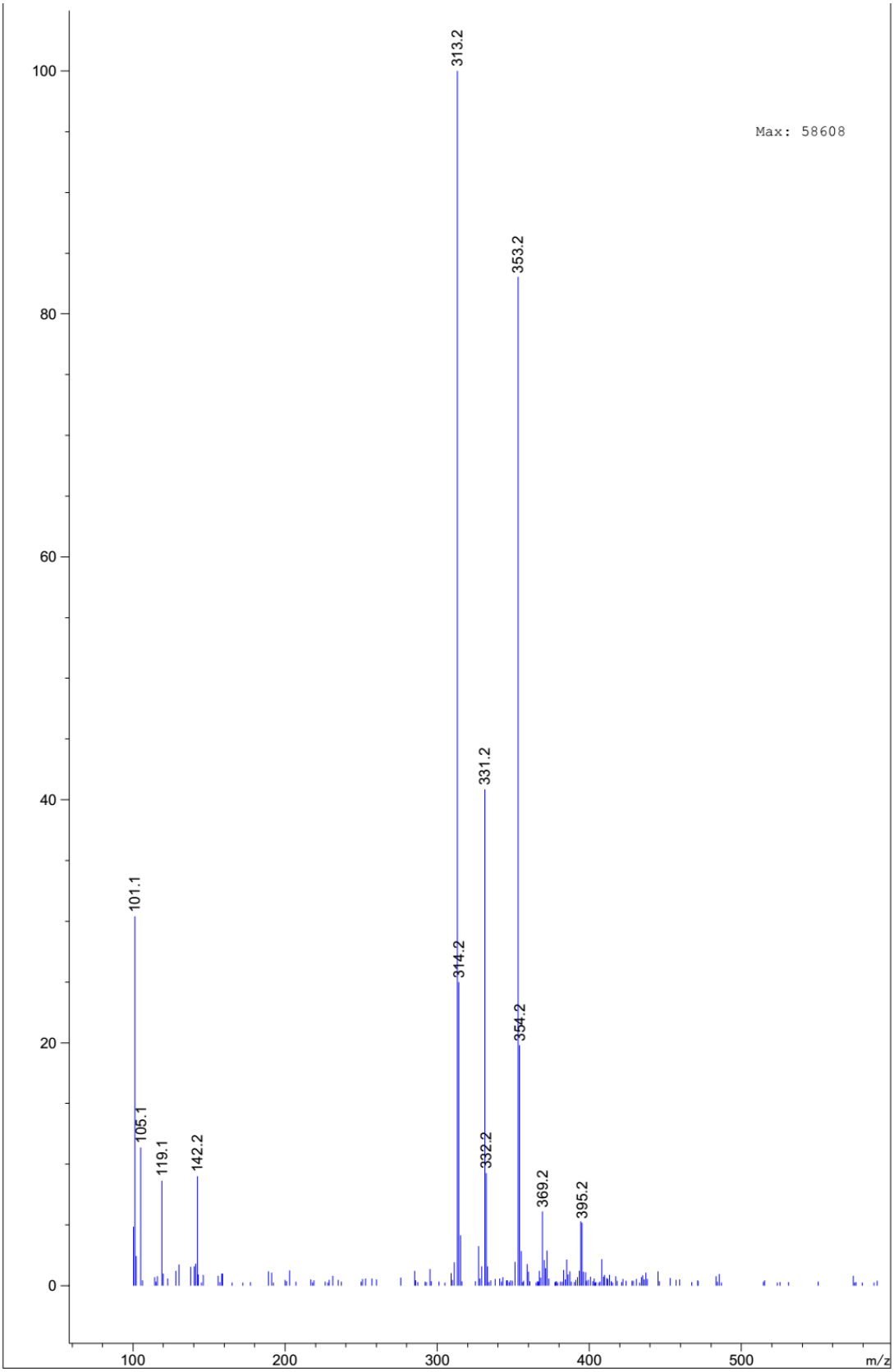


Figure S38. ESIMS of **5**

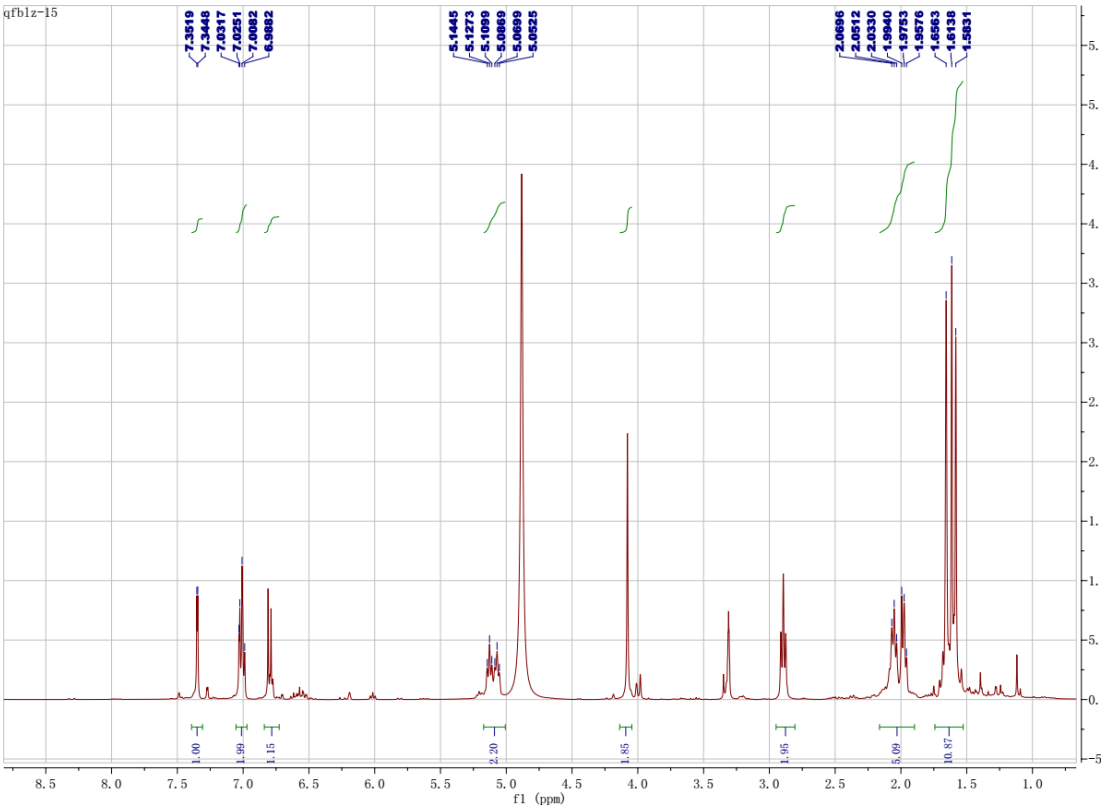


Figure S39.[1]H NMR spectrum of **6** in methanol-d_4

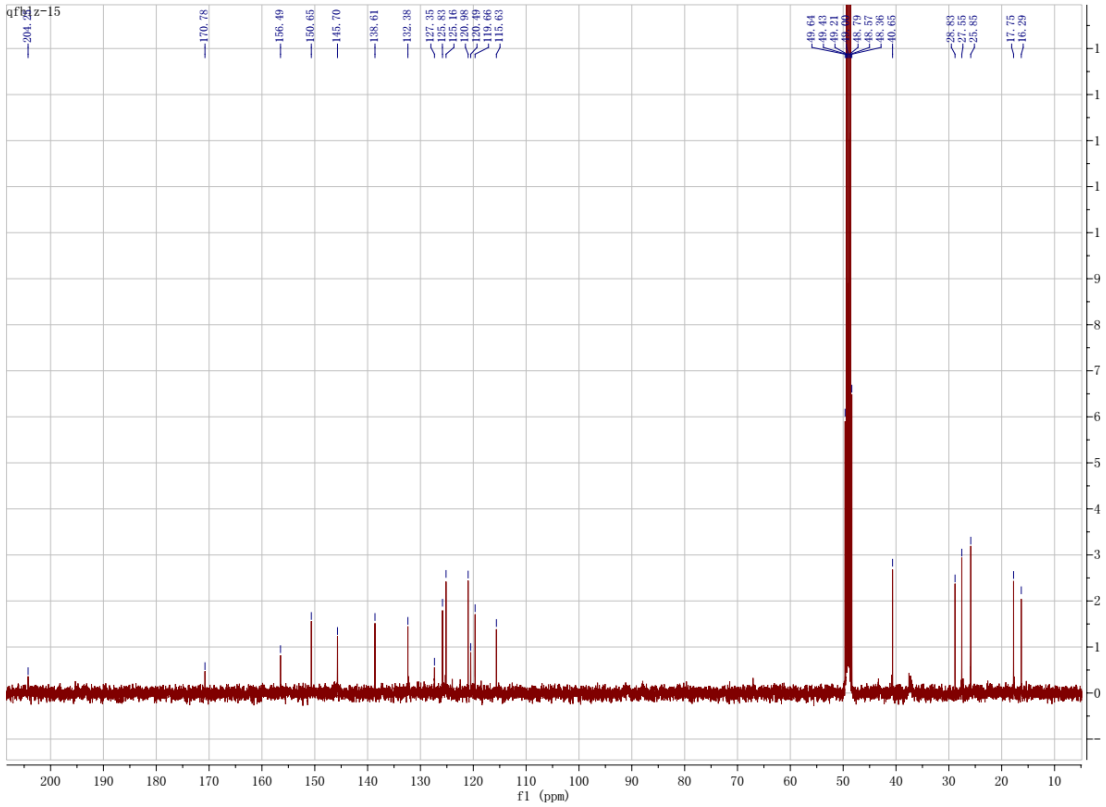


Figure S40.[13]C NMR spectrum of **6** in methanol-d_4

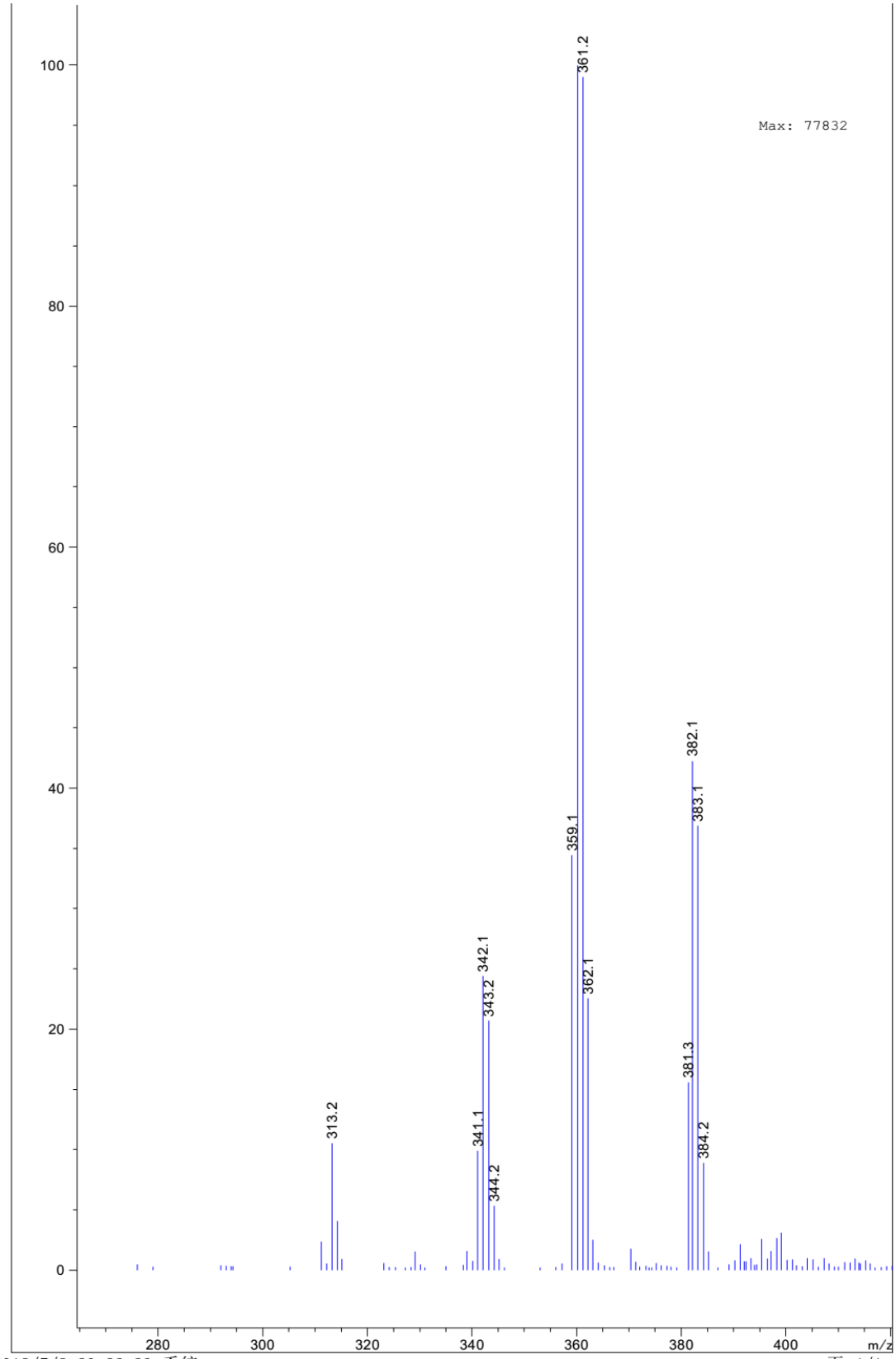


Figure S41. ESIMS of **6**

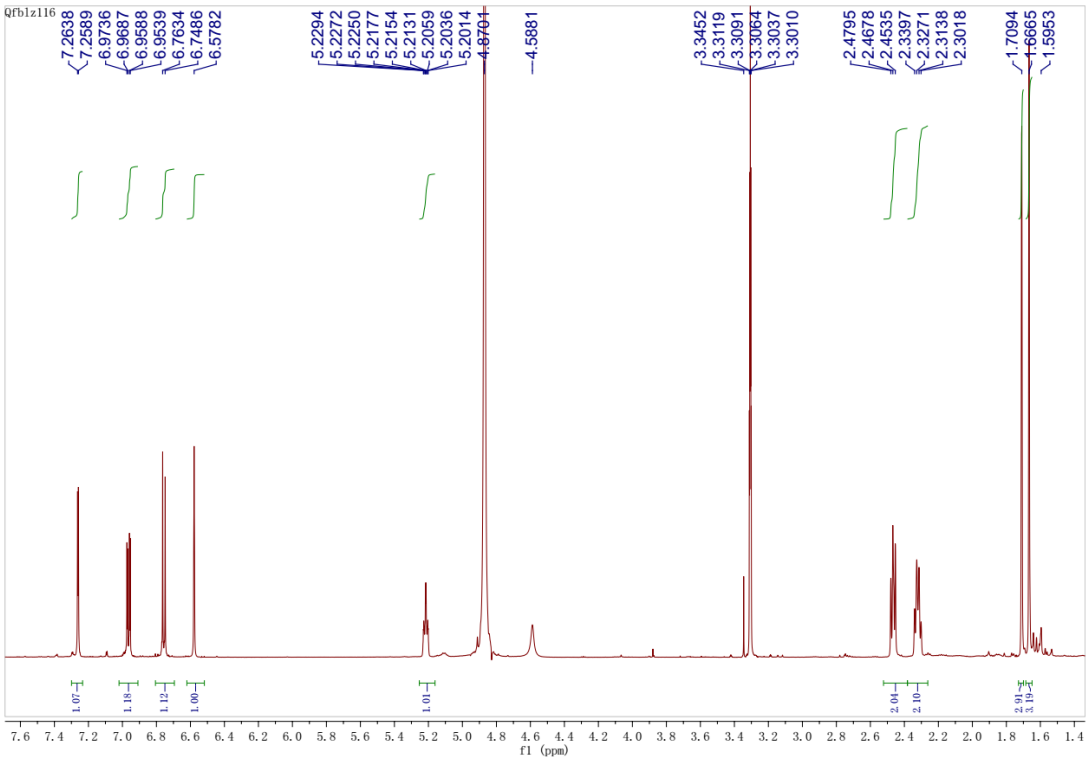


Figure S42.[1]H NMR spectrum of **7** in methanol-d_4

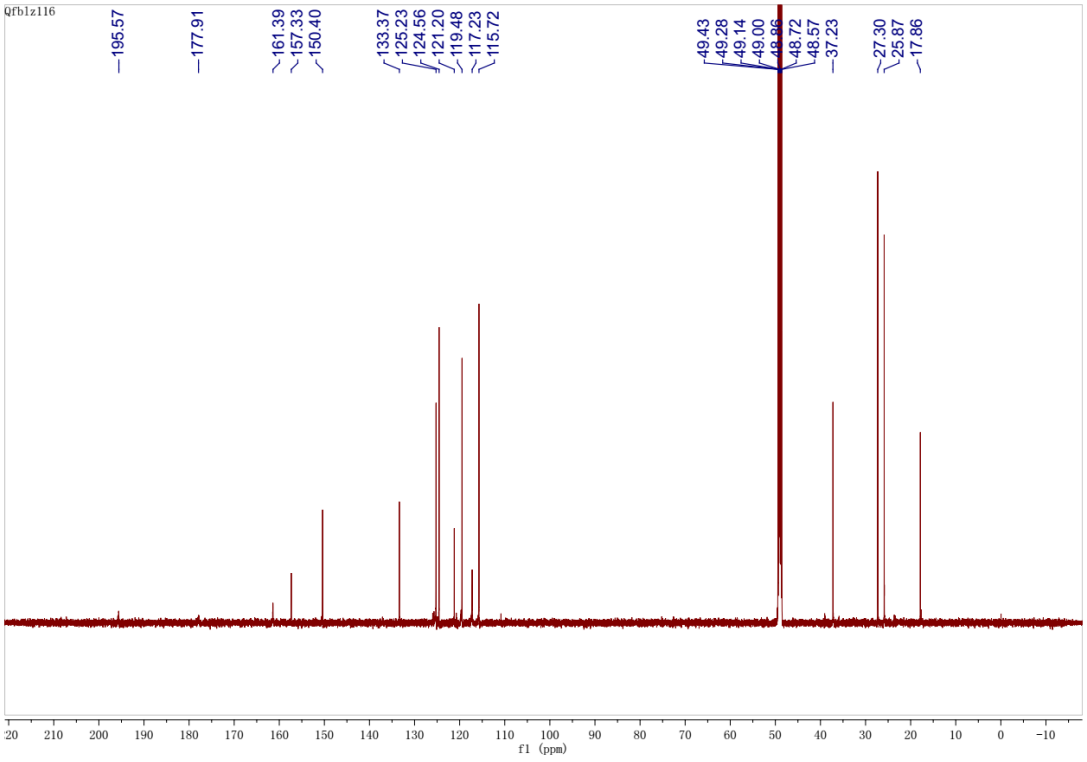


Figure S43.[13]C NMR spectrum of **7** in methanol-d_4

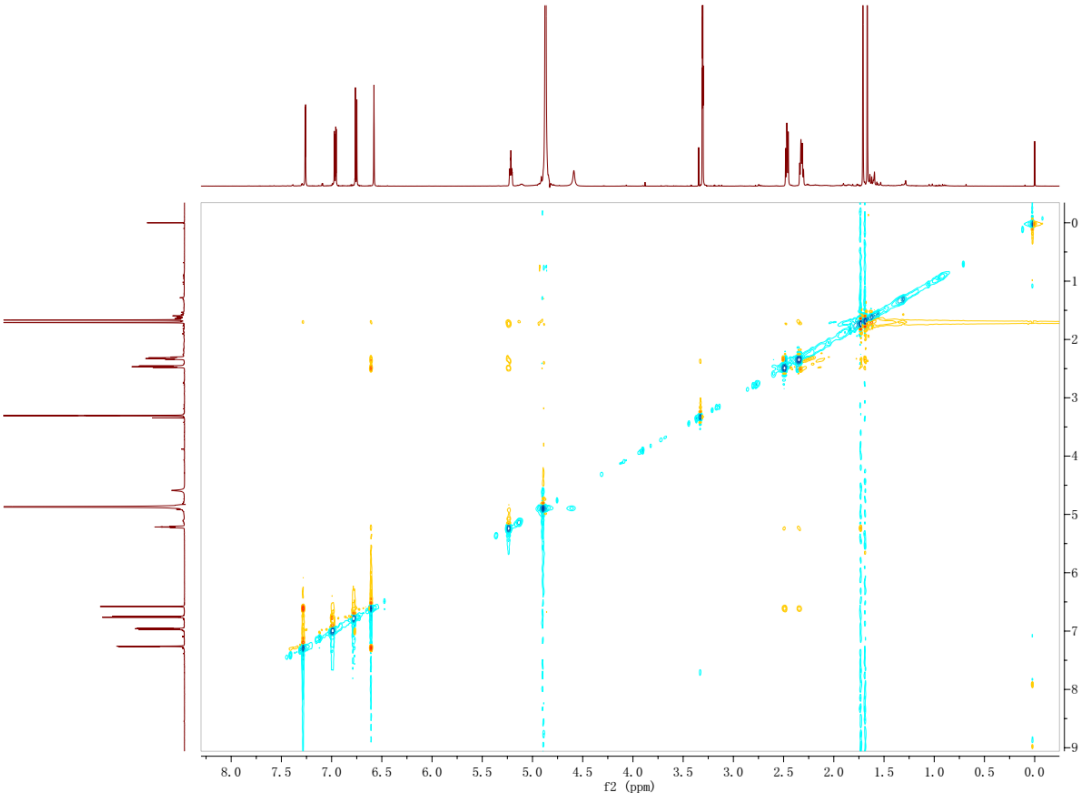


Figure S44. ROESY spectrum of **7** in methanol-d_4

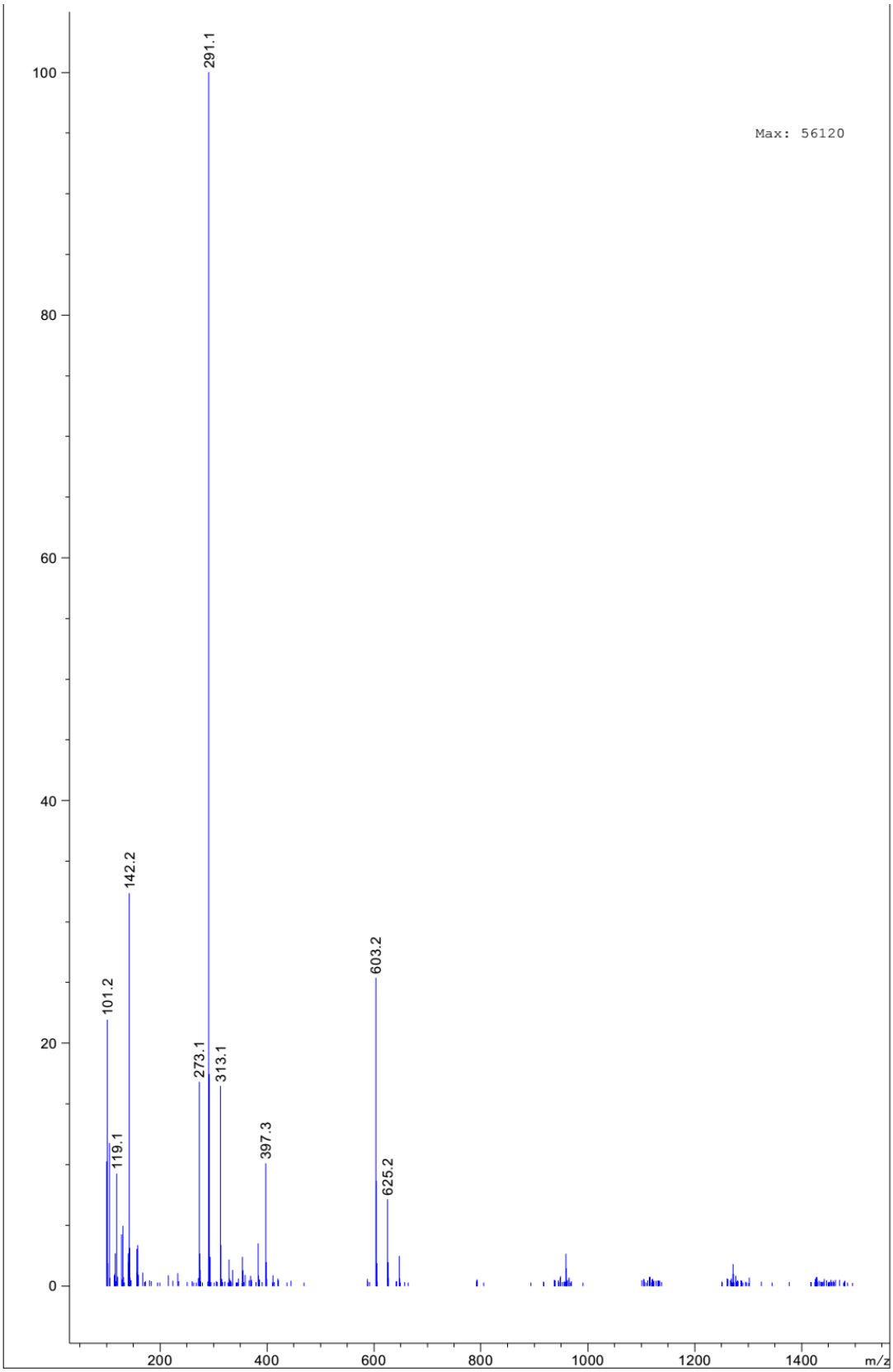


Figure S45. ESIMS of **7**

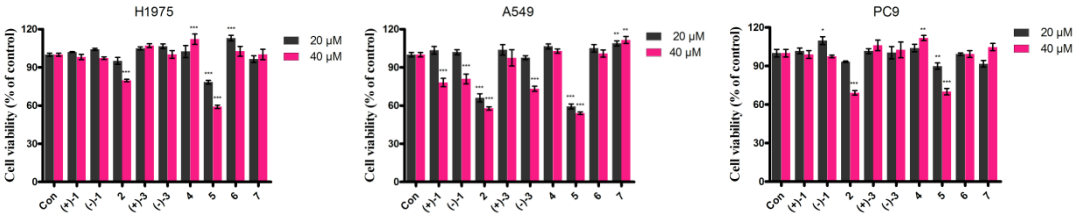


Figure S46. Cytotoxicity of the compounds toward three human lung cancer cell lines was measured using *TransDetect*® Cell Counting Kit