

## Supplementary Material

### **(1*R*,2*R*,6*S*)-2(4-(4-Isopropylbenzyl)piperazin-1-yl)-3-methyl-6-(prop-1-en-2-yl)cyclohex-3-enol**

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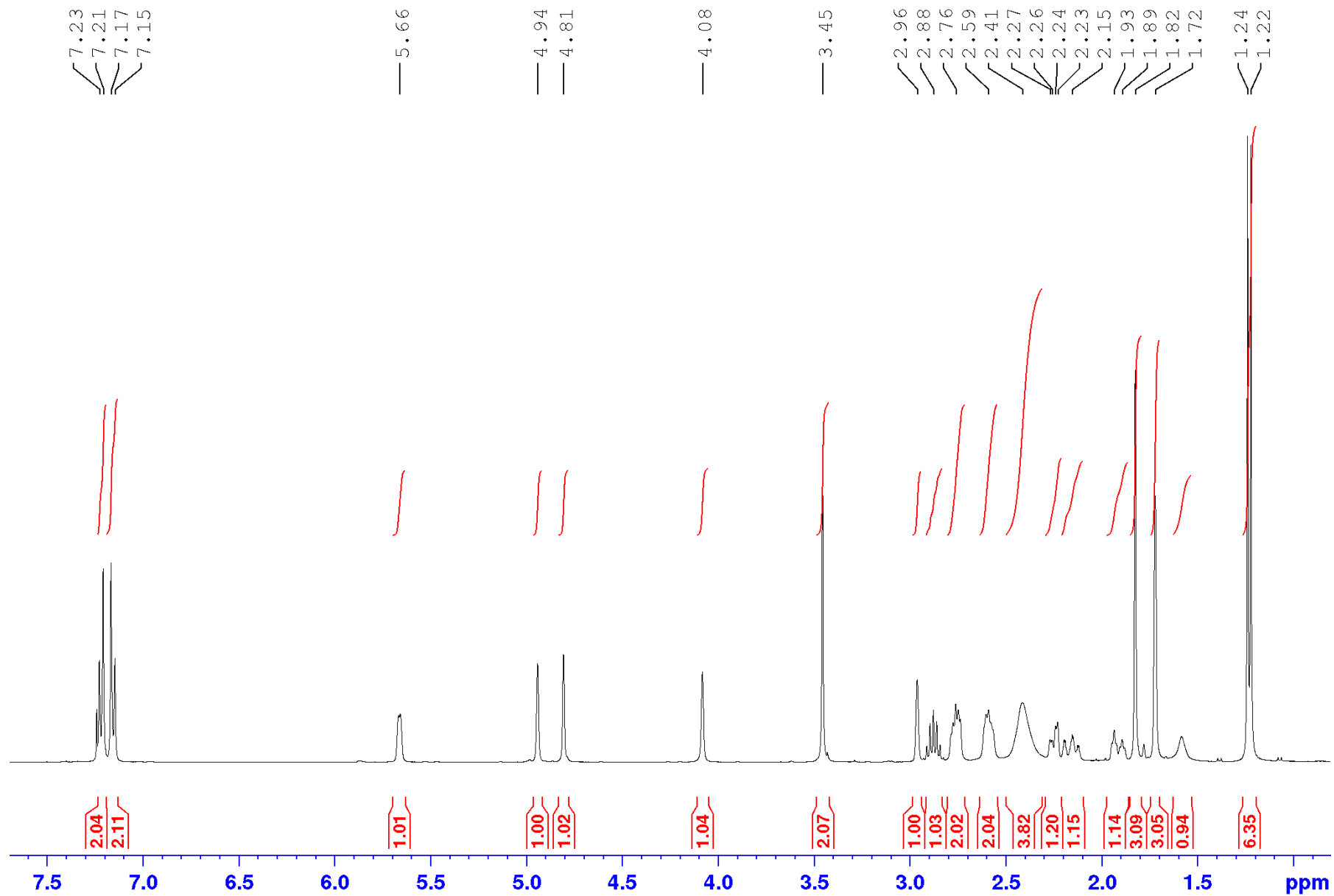


Figure S1.  $^1\text{H}$  NMR spectra of compound **1** ( $\text{CDCl}_3$ , 400 MHz).

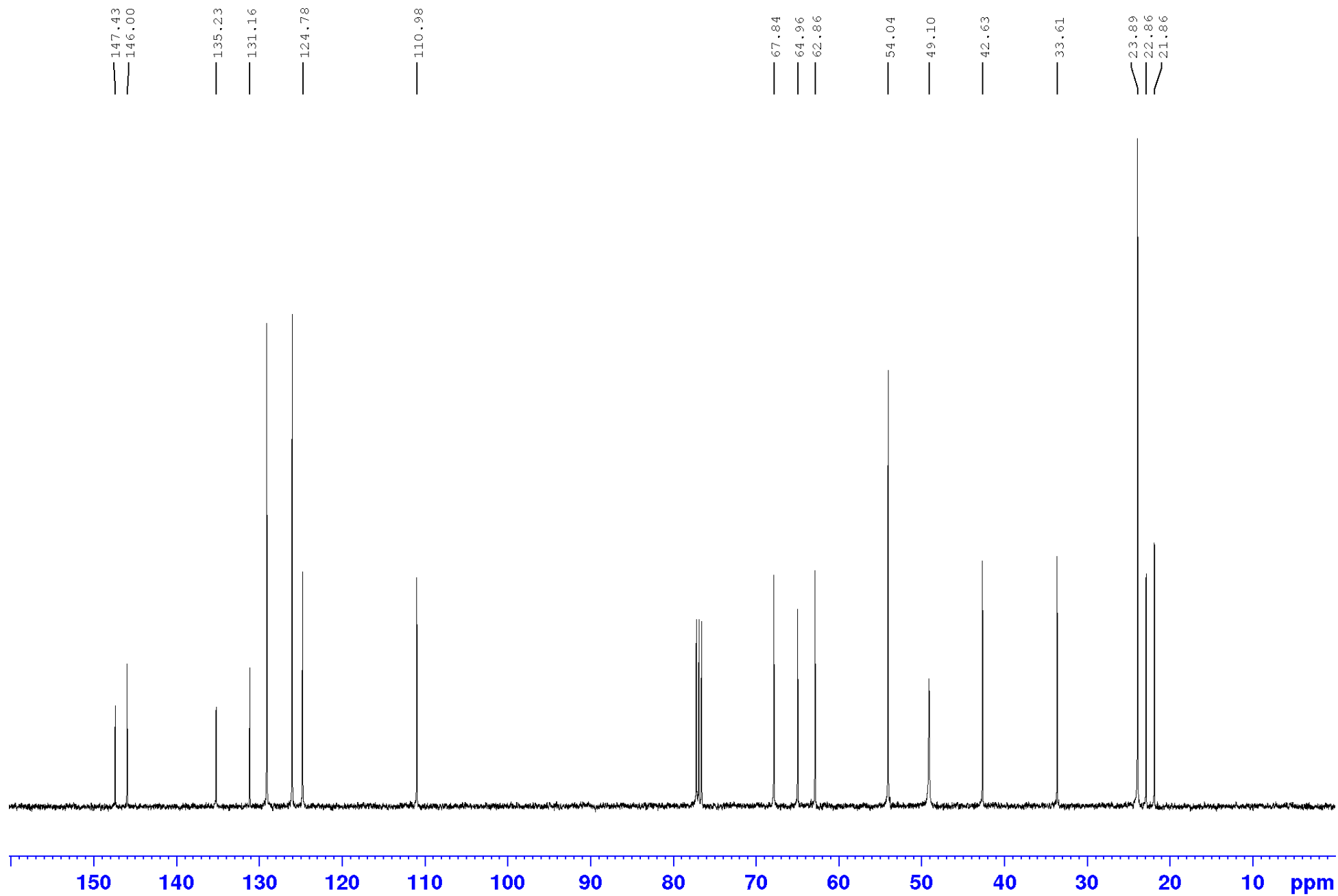


Figure S2.  $^{13}\text{C}$  NMR spectrum of compound 1 ( $\text{CDCl}_3$ , 100 MHz).

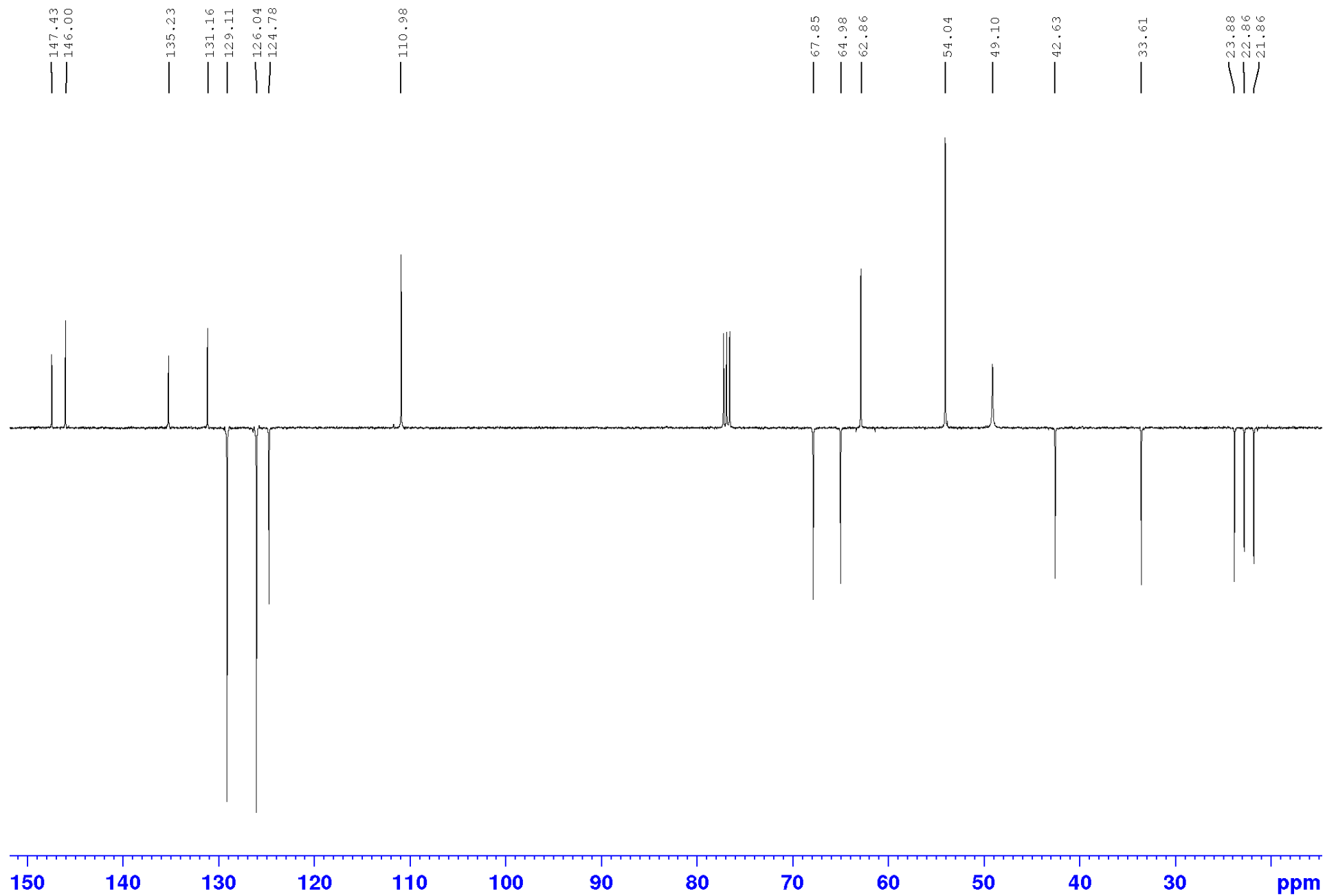


Figure S3.  $^{13}\text{C}$  NMR spectrum (JMOD) of compound 1 ( $\text{CDCl}_3$ , 100 MHz).

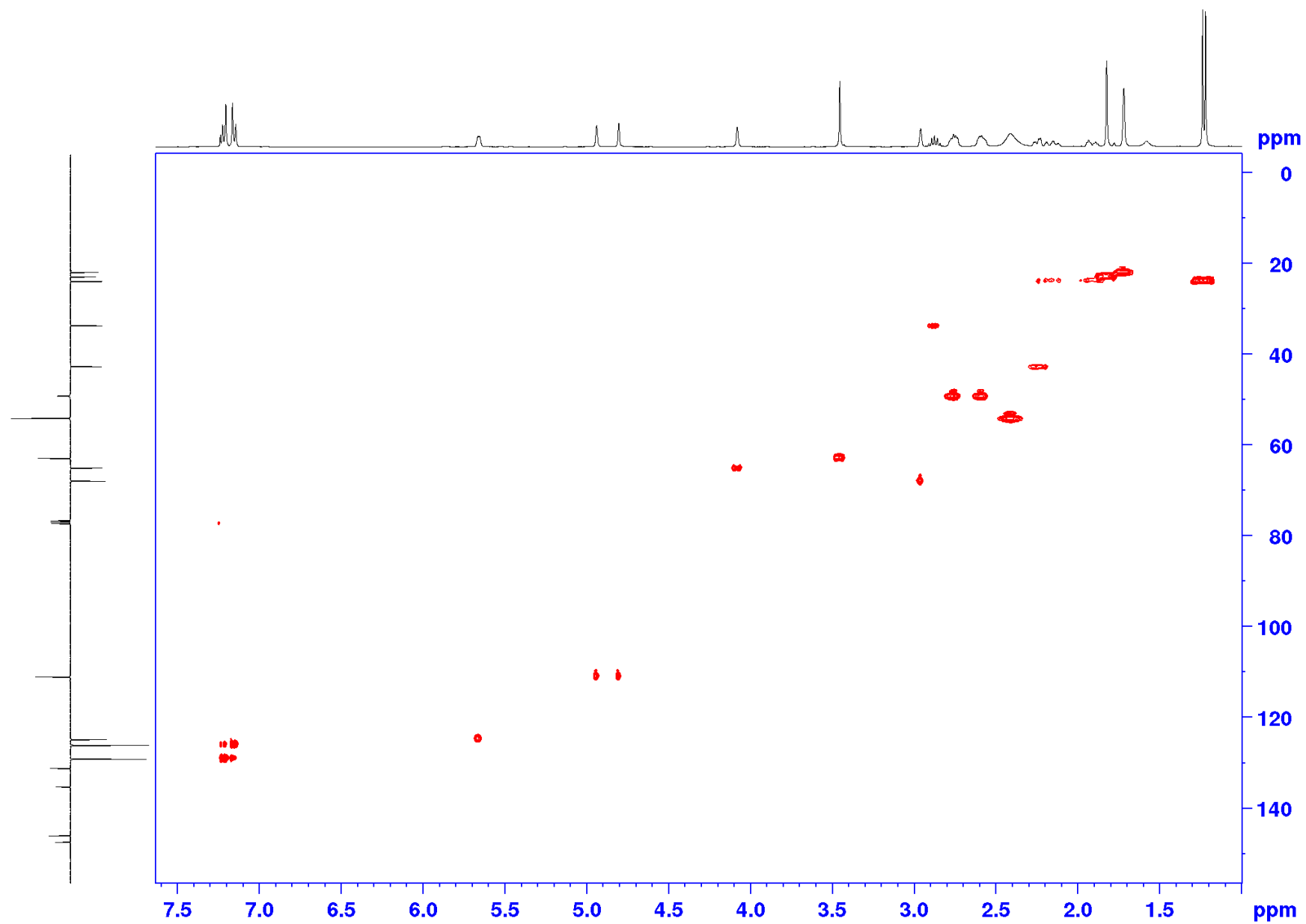


Figure S4. HSQC spectrum of compound 1 ( $\text{CDCl}_3$ ,  $^1\text{H}$ (400 MHz),  $^{13}\text{C}$ (100 MHz)).

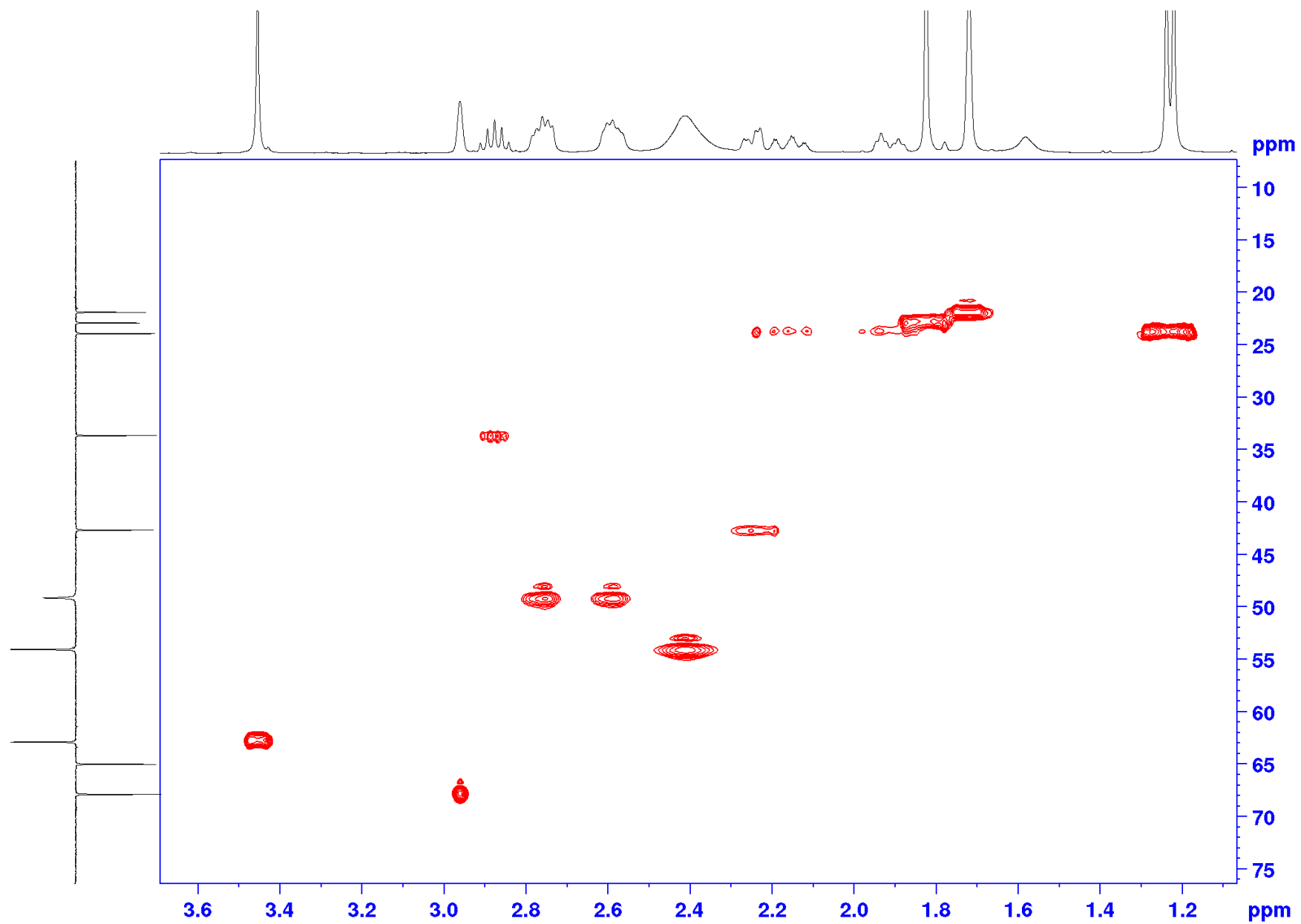


Figure S5. An expanded view of HSQC spectrum of compound 1 ( $\text{CDCl}_3$ ,  $^1\text{H}$ (400 MHz),  $^{13}\text{C}$ (100 MHz)).

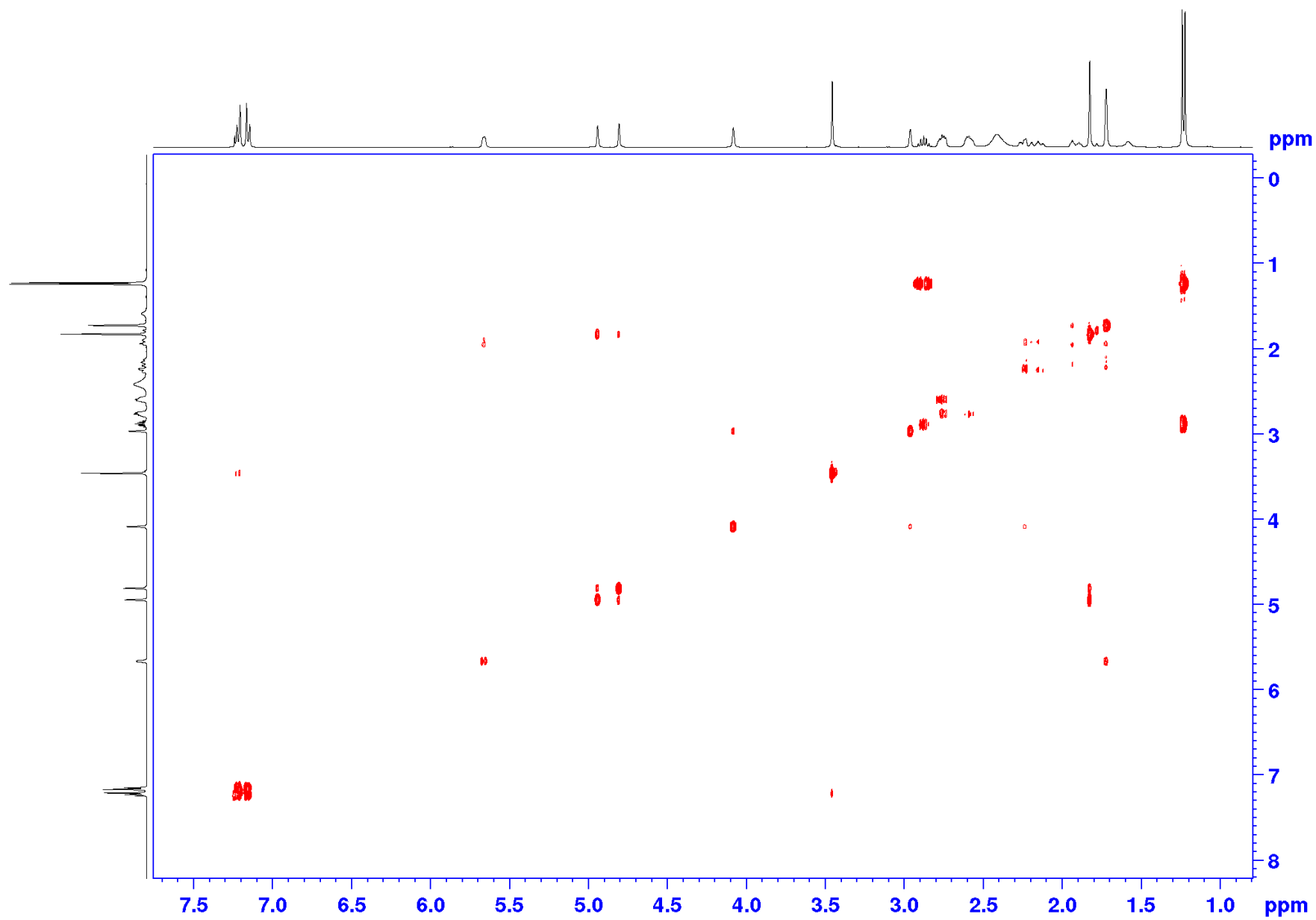


Figure S6. COSY spectrum of compound 1 (CDCl<sub>3</sub>, 400 MHz).

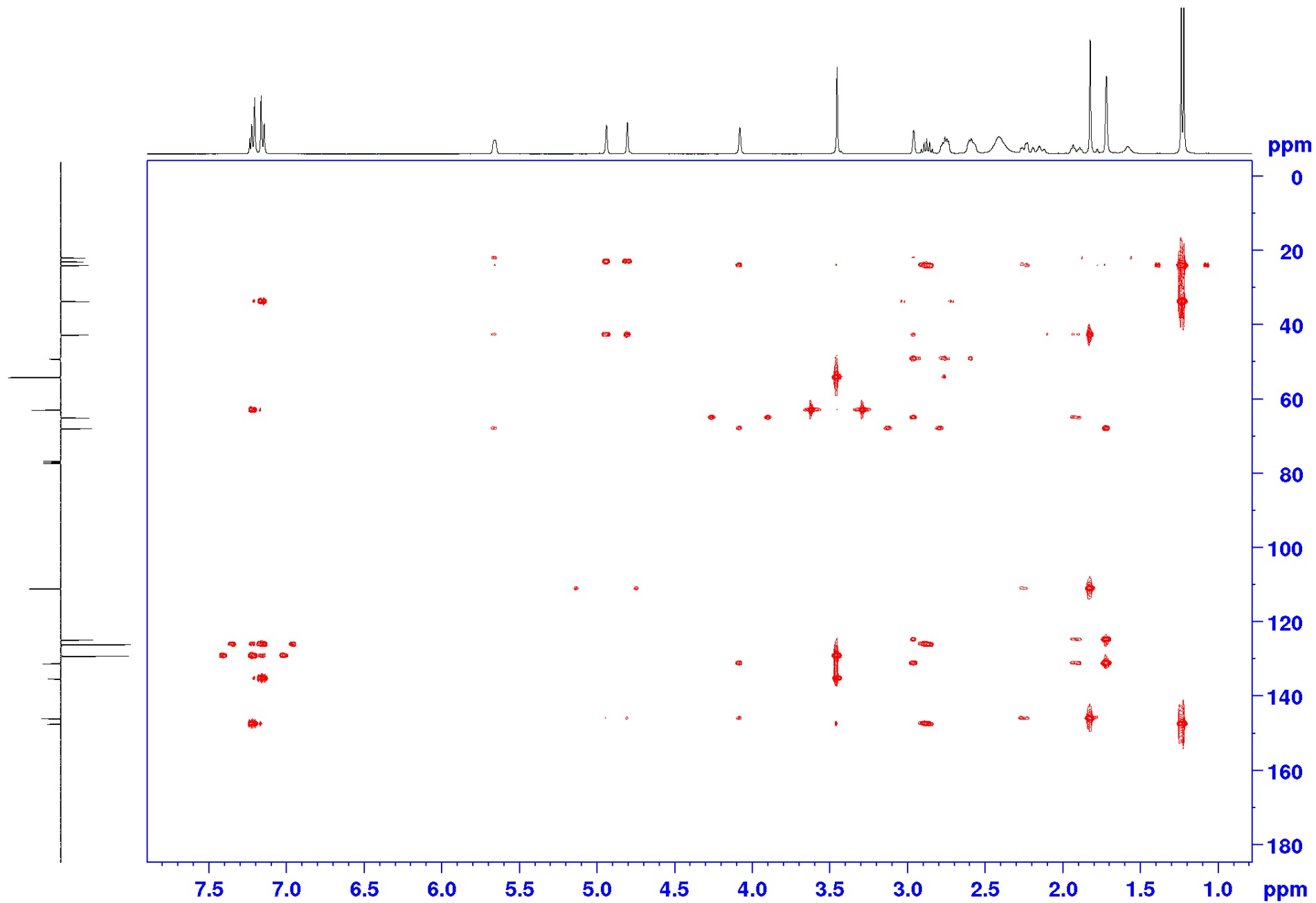


Figure S7. HMBC spectrum of compound 1 ( $\text{CDCl}_3$ ,  $^1\text{H}$ (400 MHz),  $^{13}\text{C}$ (100 MHz)).



Li-639-1\_220707145236 #7 RT: 0.35 AV: 1 NL: 8.54E6  
T: + c EI Full ms [ 14.50-410.50]

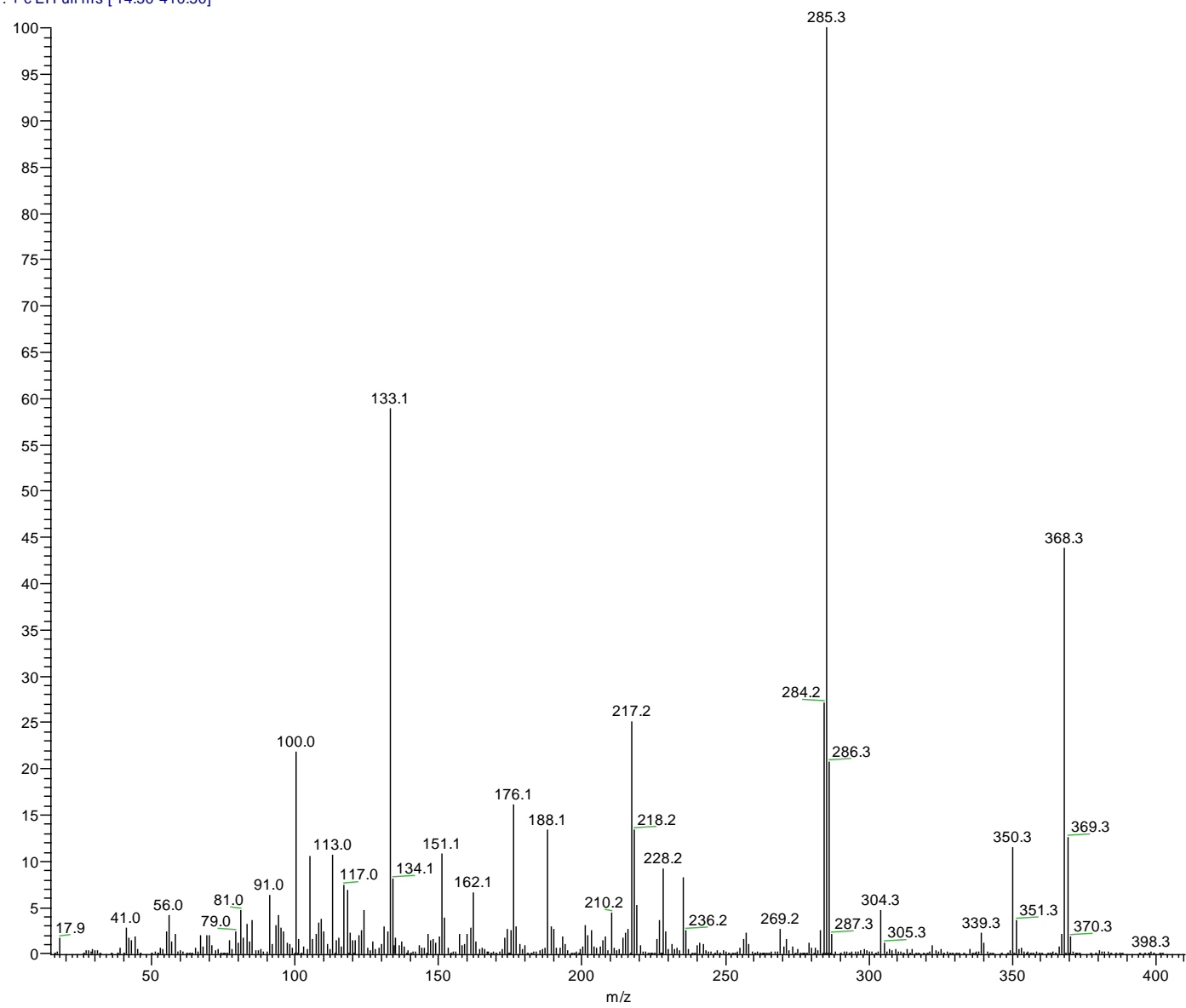


Figure S8. Mass-spectrum of compound 1.

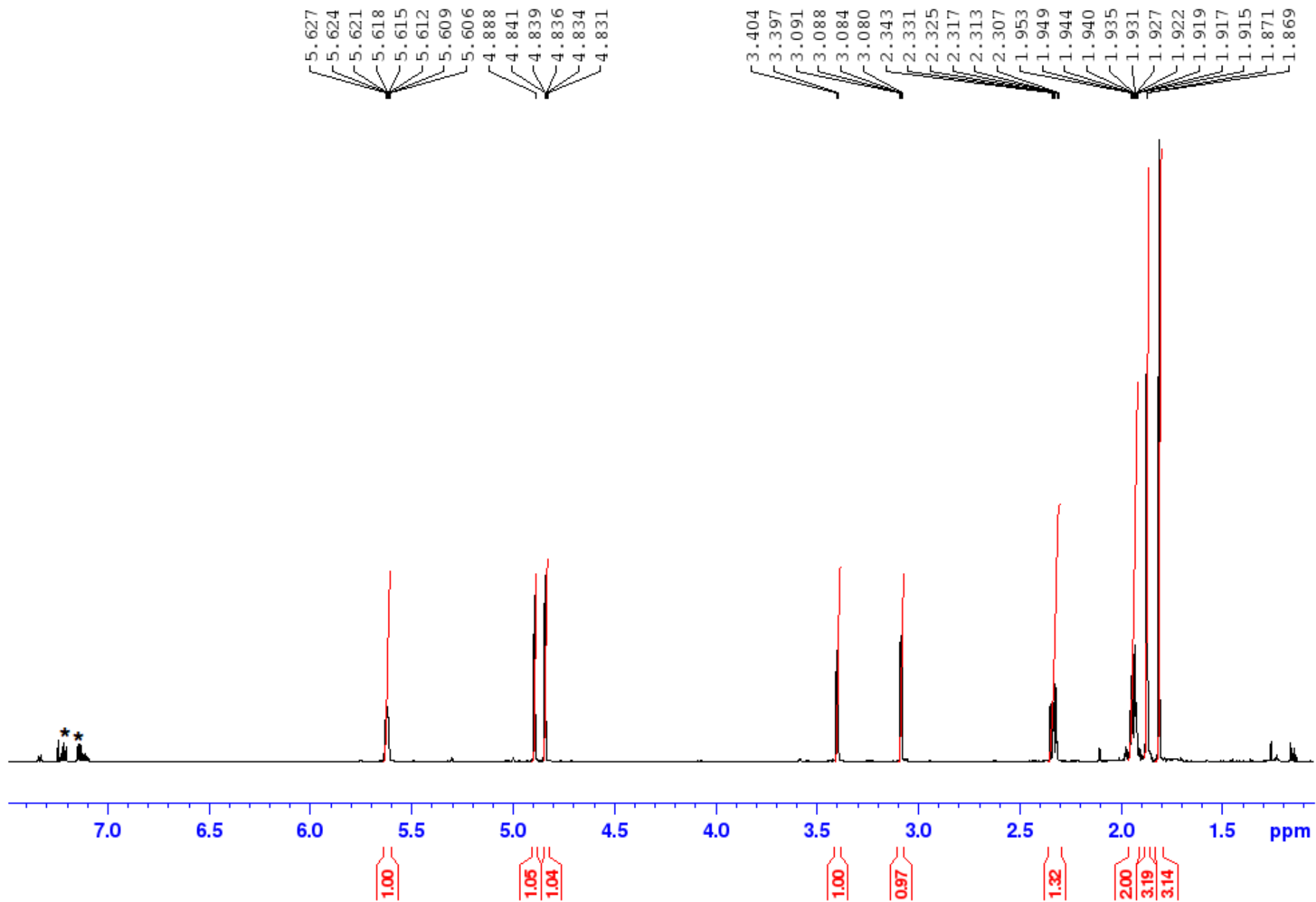


Figure S9.  $^1\text{H}$  NMR spectra of compound **6** ( $\text{CDCl}_3$ , 600 MHz). (\*-residual solvent)

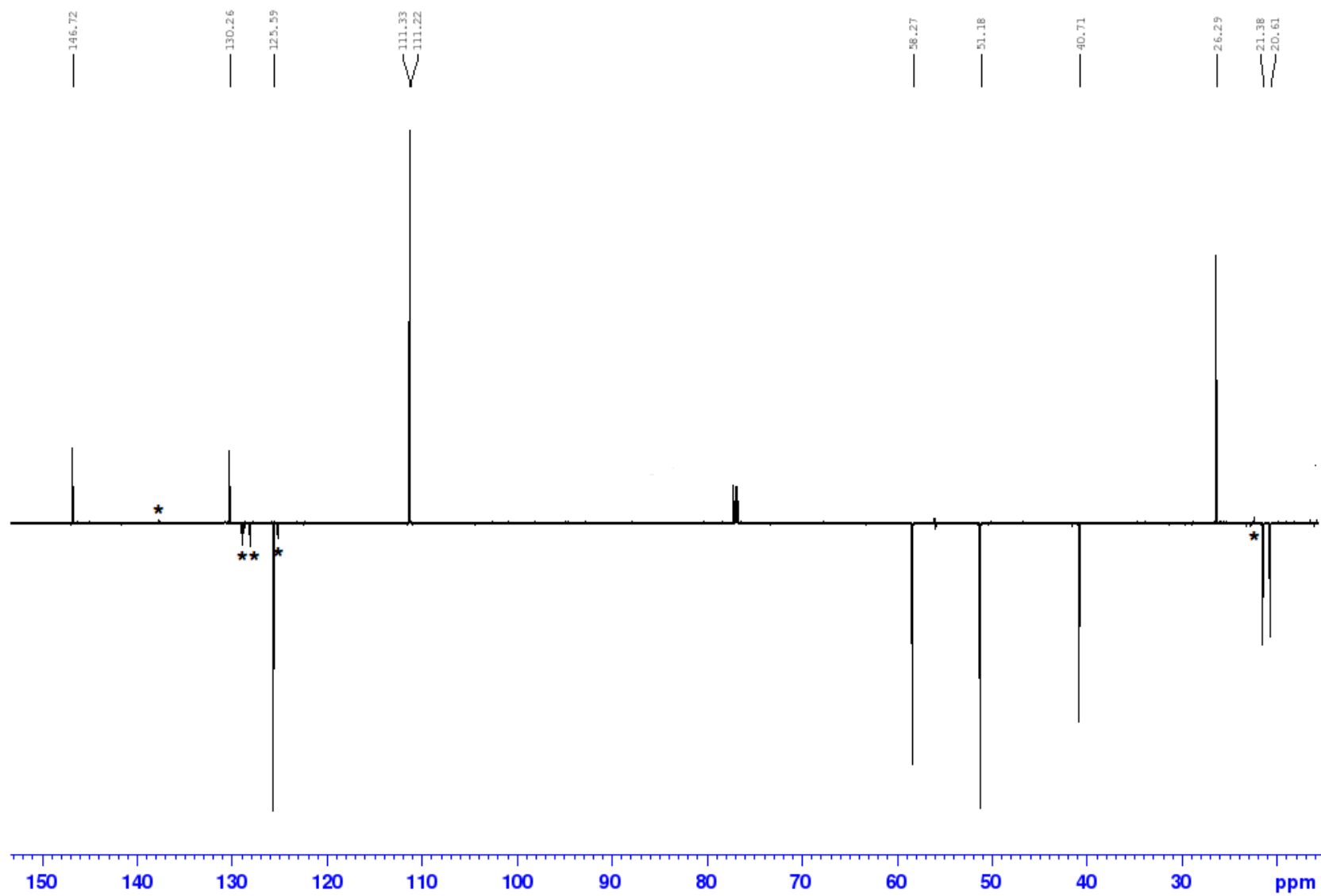


Figure S10.  $^{13}\text{C}$  NMR spectrum (JMOD) of compound 6 ( $\text{CDCl}_3$ , 150 MHz). (\*-residual solvent)

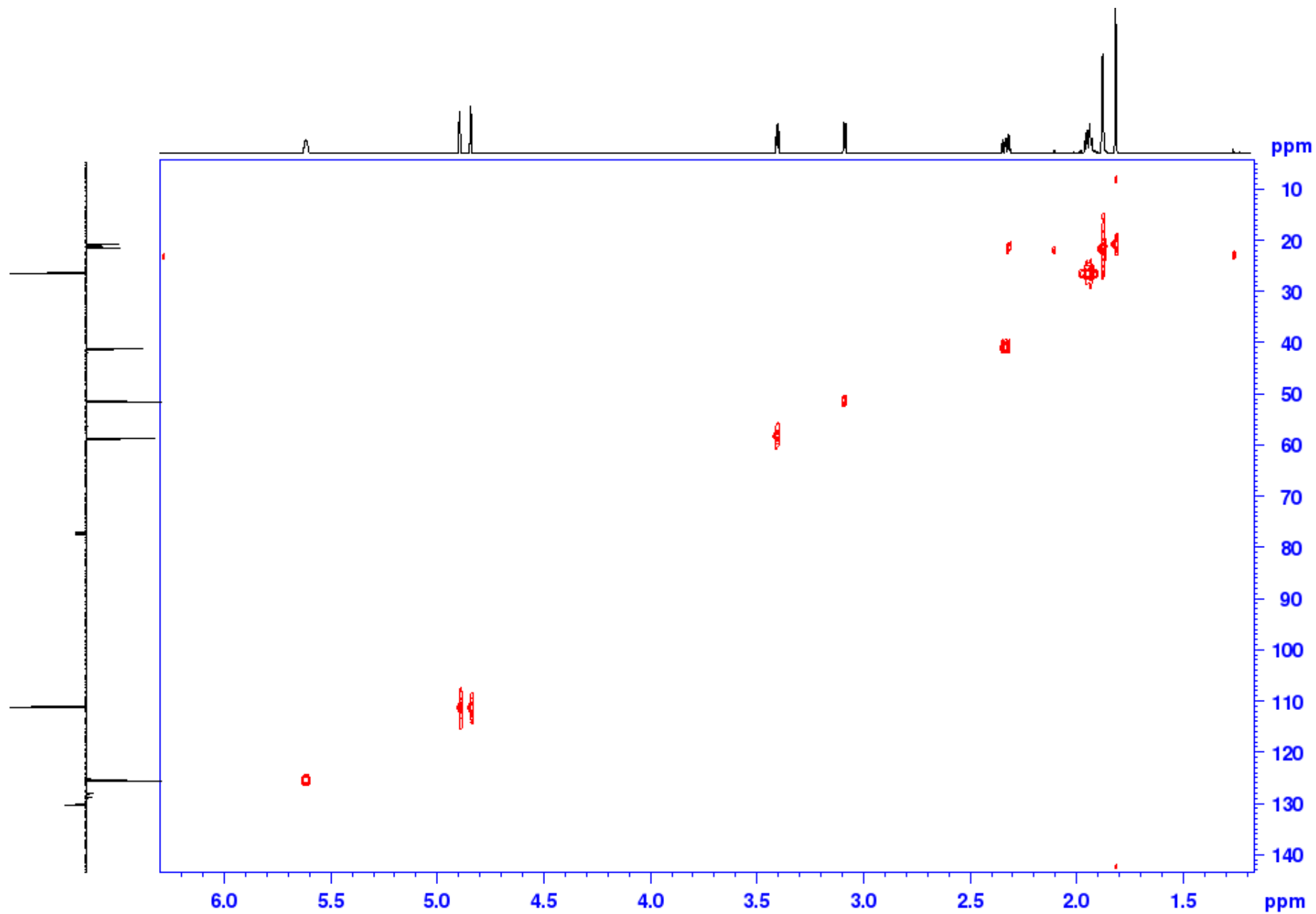


Figure S11. HSQC spectrum of compound 6 ( $\text{CDCl}_3$ ,  $^1\text{H}$ (600 MHz),  $^{13}\text{C}$ (150 MHz)).

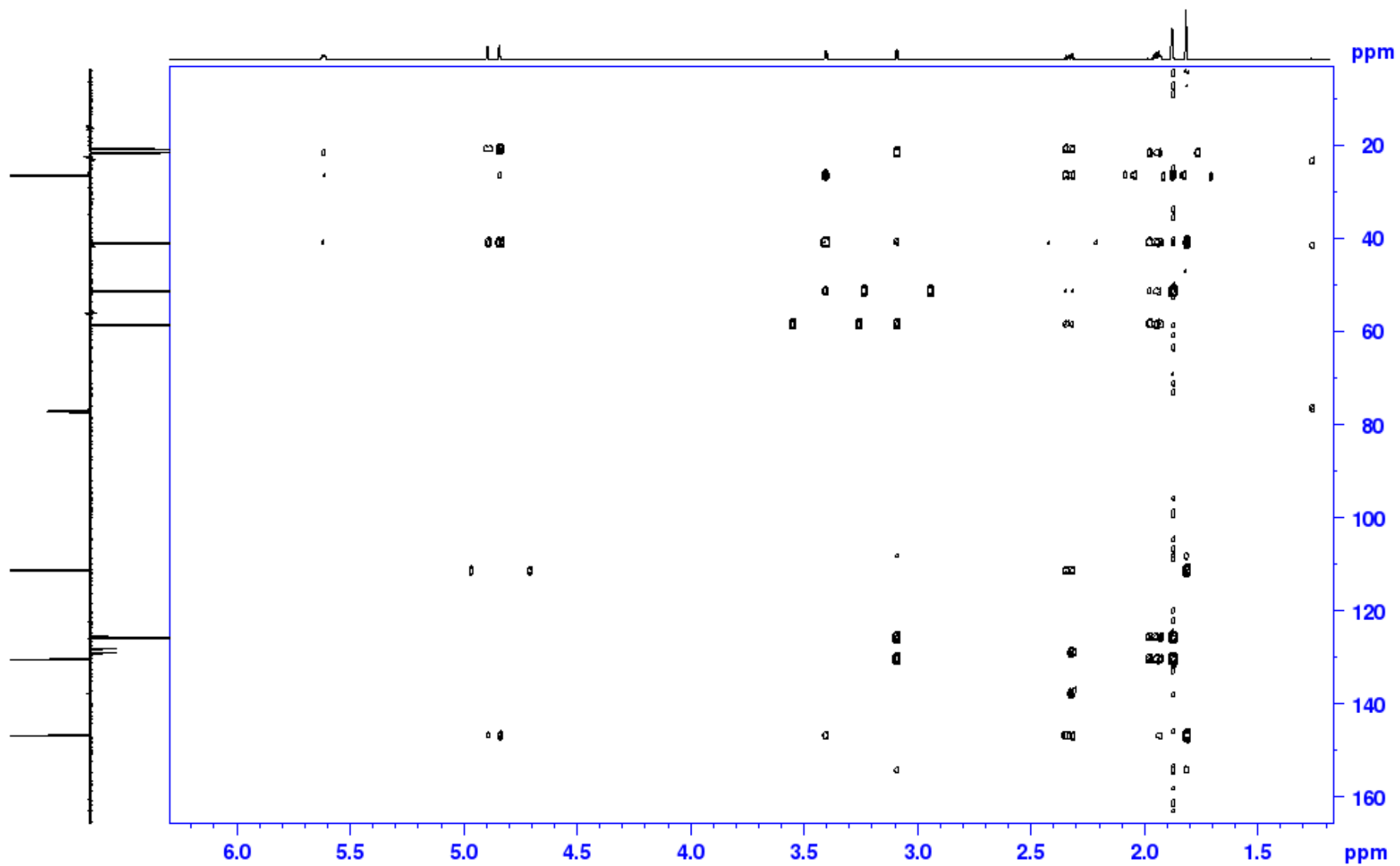


Figure S12. HMBS spectrum of compound 6 ( $\text{CDCl}_3$ ,  $^1\text{H}$ (600 MHz),  $^{13}\text{C}$ (150 MHz)).

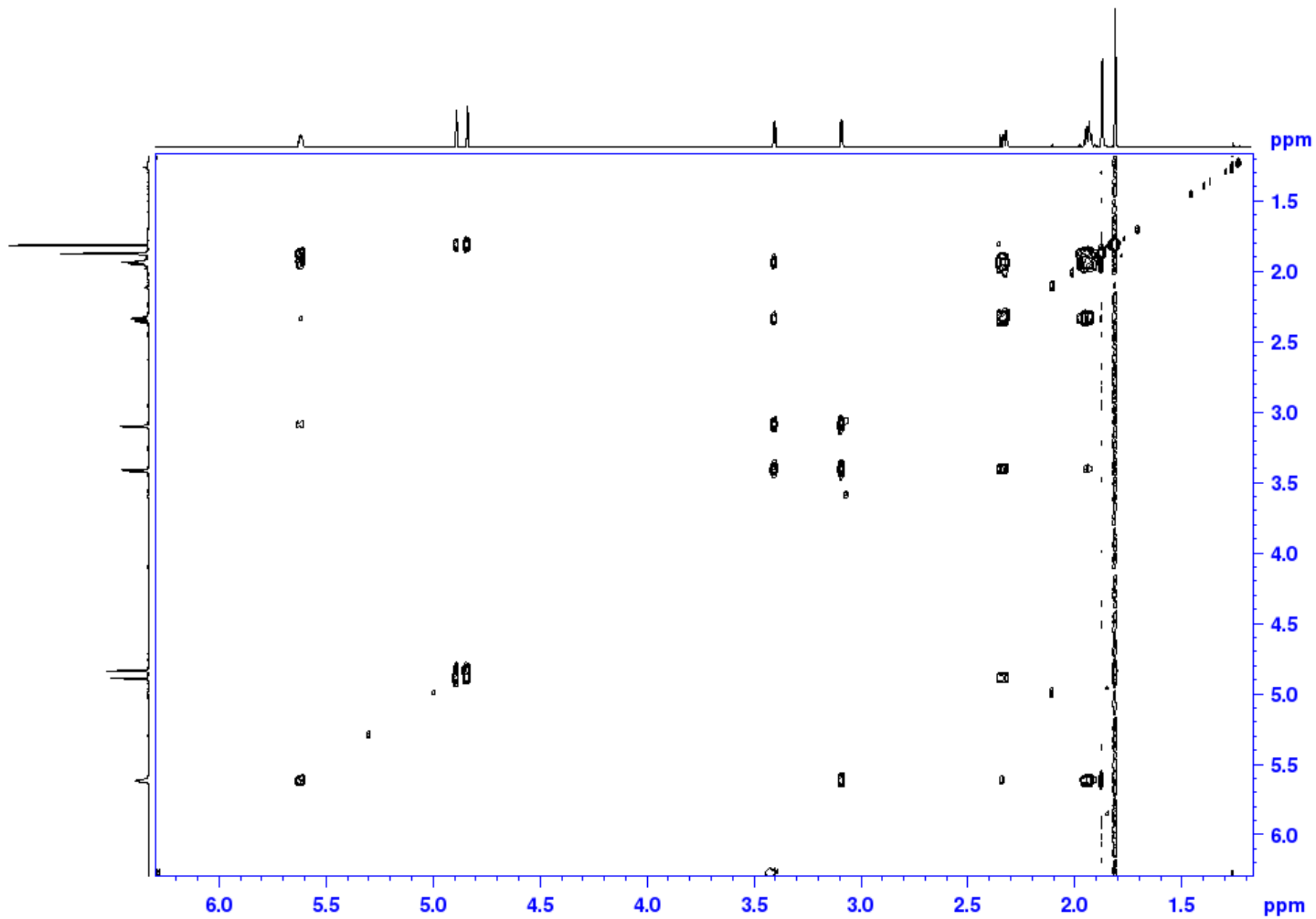


Figure S13. COSY spectrum of compound 6 (CDCl<sub>3</sub>, 600 MHz).

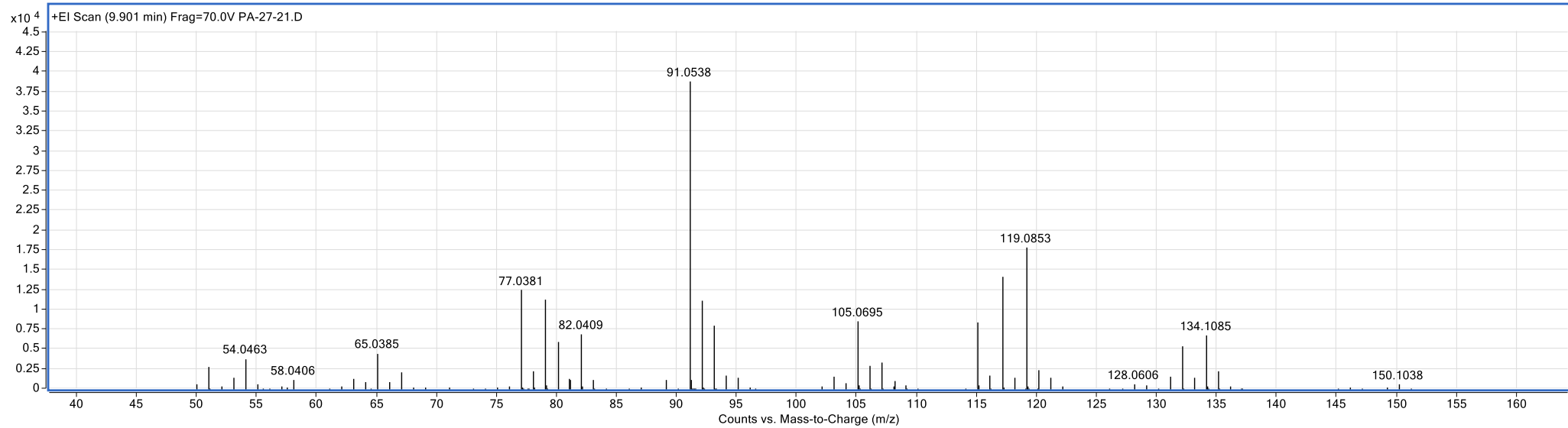


Figure S14. Mass-spectrum of compound 6.