

## ***Supporting information***

# **Phytotoxins from *Tithonia diversifolia***

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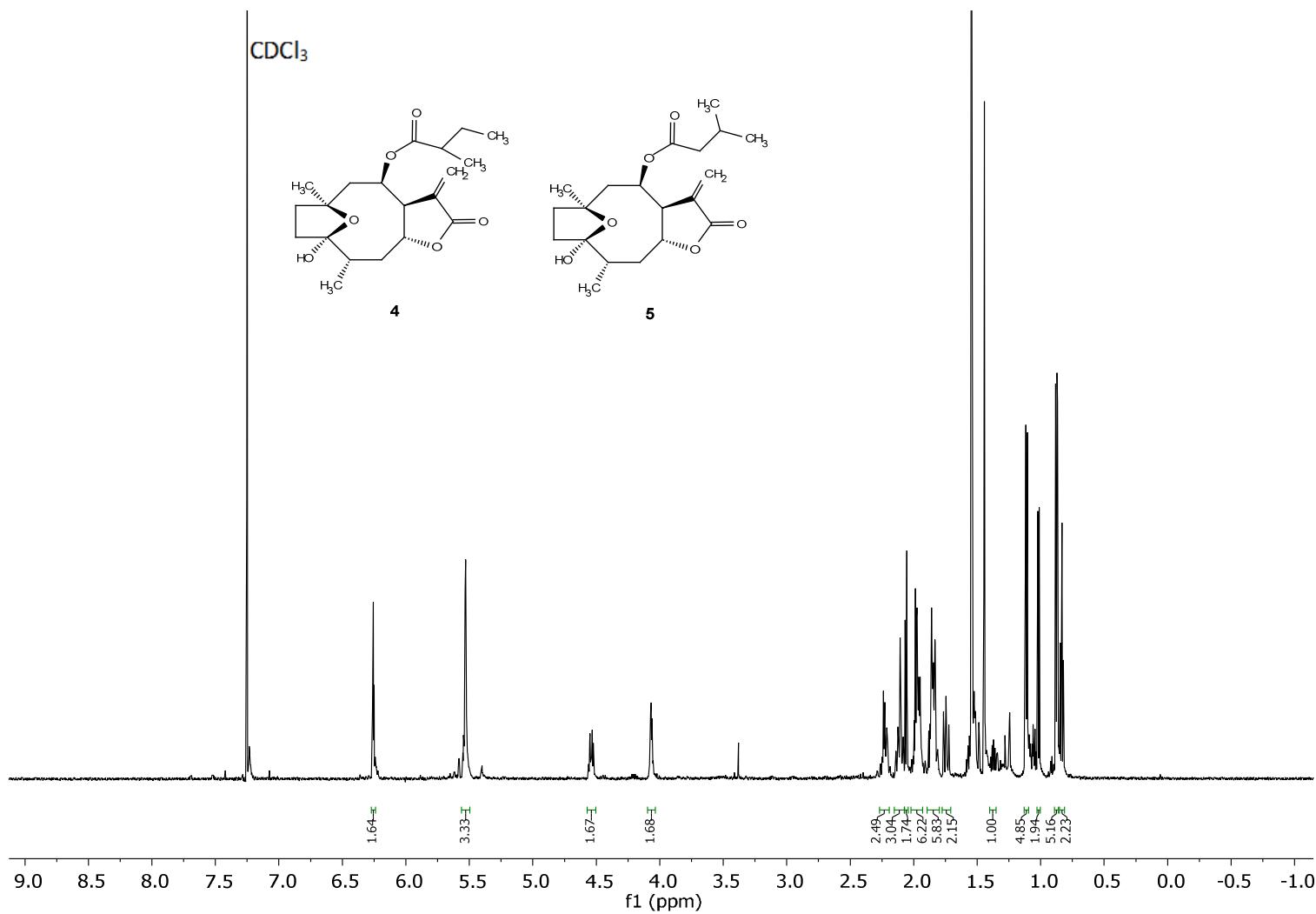
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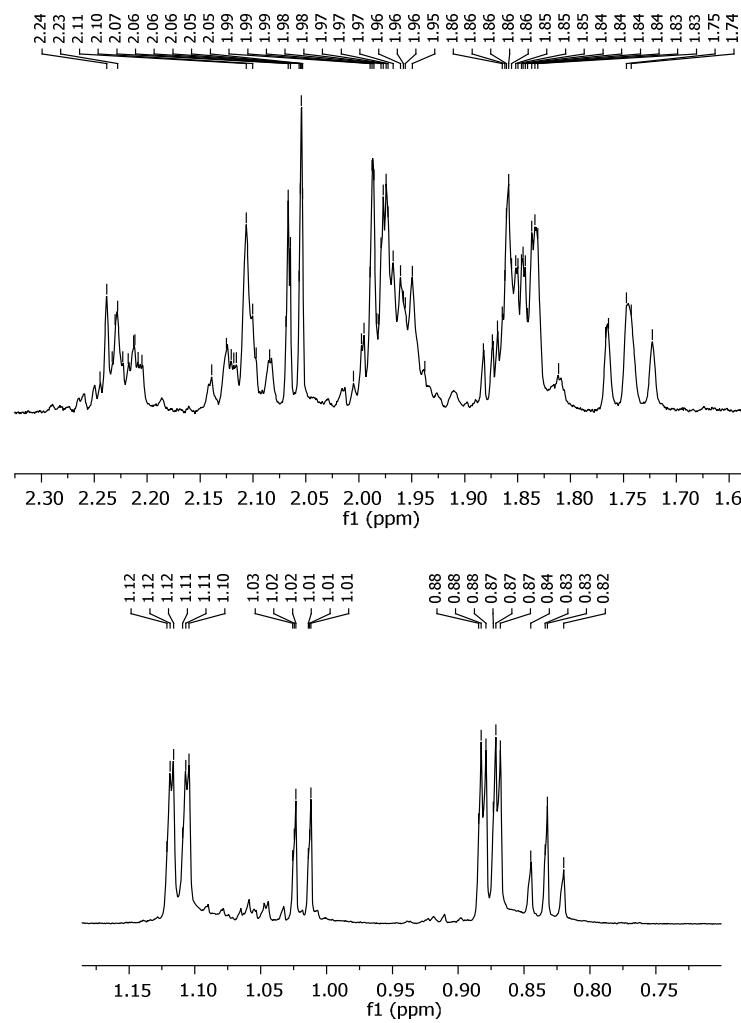
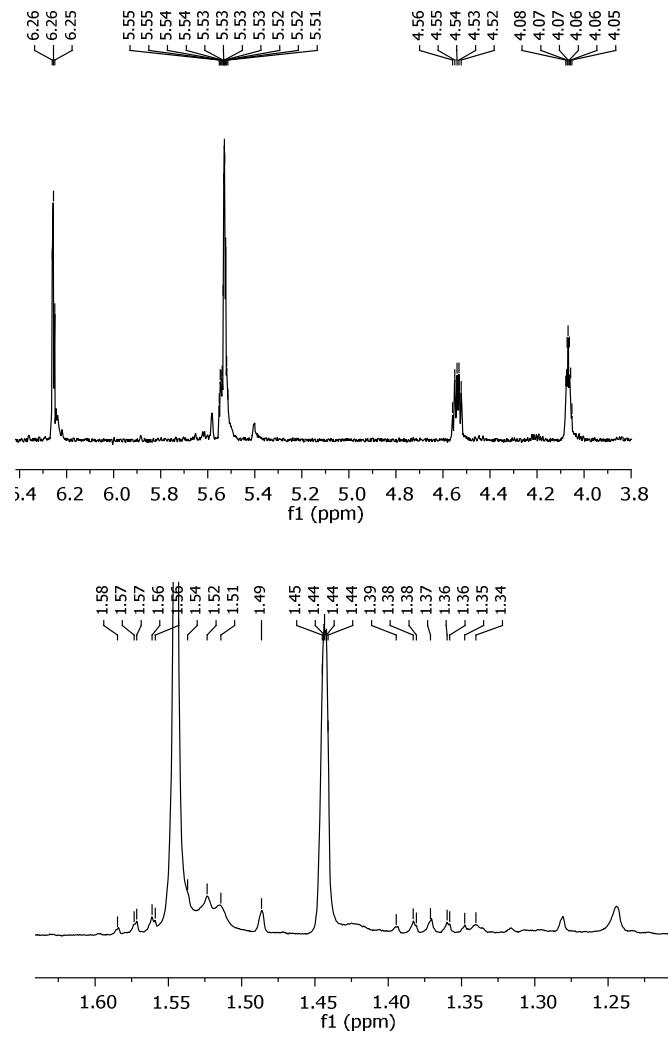
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Brazil.

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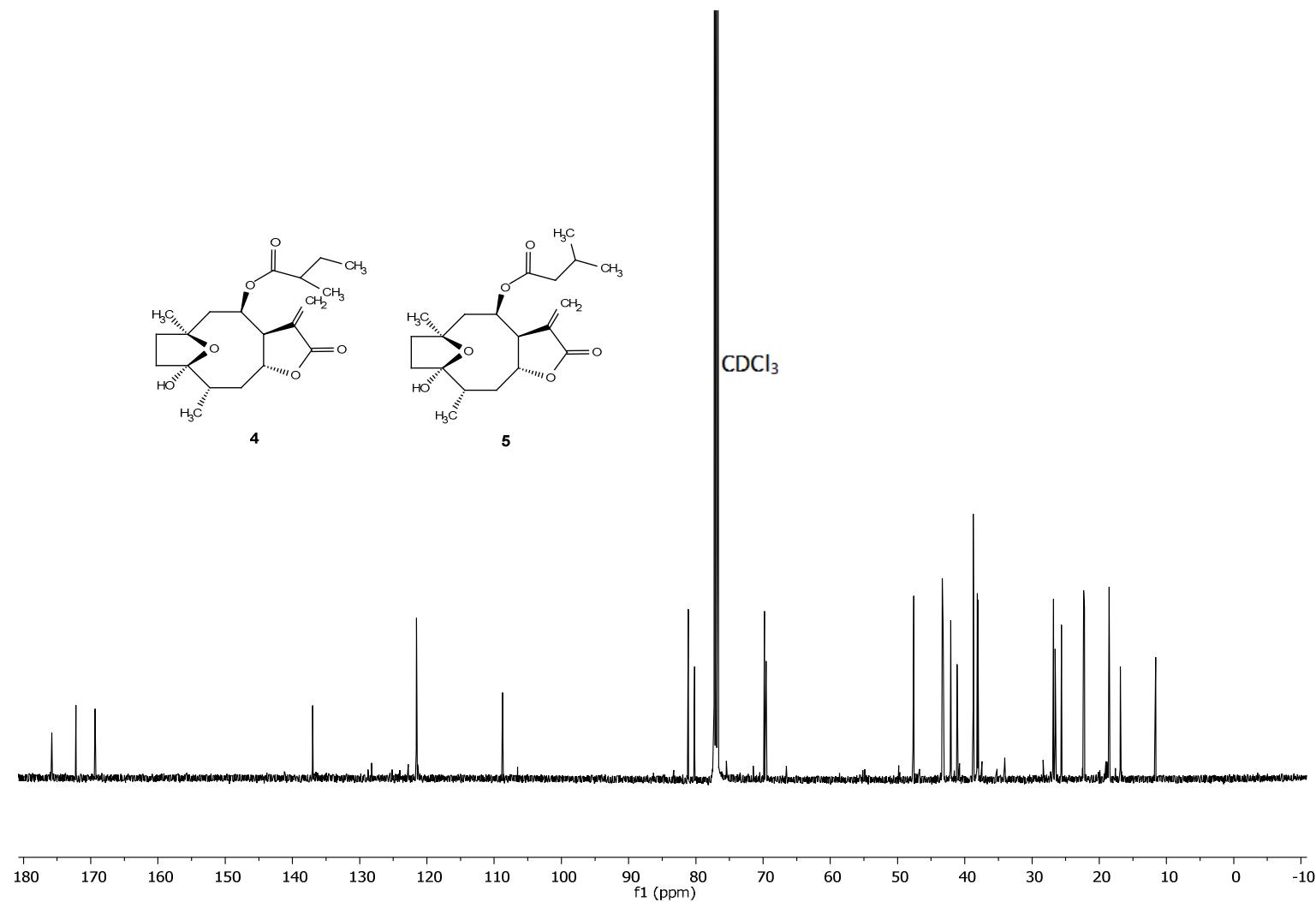
- S3       **$^1\text{H}$  NMR spectrum of  $8\beta$ -O-(2-methylbutyroyl)tirotundin (4) and  
 $8\beta$ -O-(isovaleroyl)tirotundin (5) (600 MHz,  $\text{CDCl}_3$ )**
- S4      **Expanded regions of  $^1\text{H}$  NMR spectrum of  $8\beta$ -O-(2-methylbutyroyl)tirotundin (4) and  
 $8\beta$ -O-(isovaleroyl)tirotundin (5) (600 MHz,  $\text{CDCl}_3$ )**
- S5       **$^{13}\text{C}$  NMR spectrum of  $8\beta$ -O-(2-methylbutyroyl)tirotundin (4) and  
 $8\beta$ -O-(isovaleroyl)tirotundin (5) (125 MHz,  $\text{CDCl}_3$ )**
- S6      **Expanded regions of  $^{13}\text{C}$  NMR spectrum of  $8\beta$ -O-(2-methylbutyroyl)tirotundin (4) and  
 $8\beta$ -O-(isovaleroyl)tirotundin (5) (125 MHz,  $\text{CDCl}_3$ )**
- S7      **gDQCOSY spectrum of  $8\beta$ -O-(2-methylbutyroyl)tirotundin (4) and  
 $8\beta$ -O-(isovaleroyl)tirotundin (5) (600 MHz,  $\text{CDCl}_3$ )**
- S8      **gHSQC spectrum of  $8\beta$ -O-(2-methylbutyroyl)tirotundin (4) and  
 $8\beta$ -O-(isovaleroyl)tirotundin (5) (600 MHz,  $\text{CDCl}_3$ )**
- S9      **gHMBC spectrum of  $8\beta$ -O-(2-methylbutyroyl)tirotundin (4) and  
 $8\beta$ -O-(isovaleroyl)tirotundin (5) (600 MHz,  $\text{CDCl}_3$ )**
- S10     **zTOCSY NMR spectrum and correlations of the signals corresponding to ester side chains  
of compounds 4 and 5 (600 MHz,  $\text{CDCl}_3$ ).**

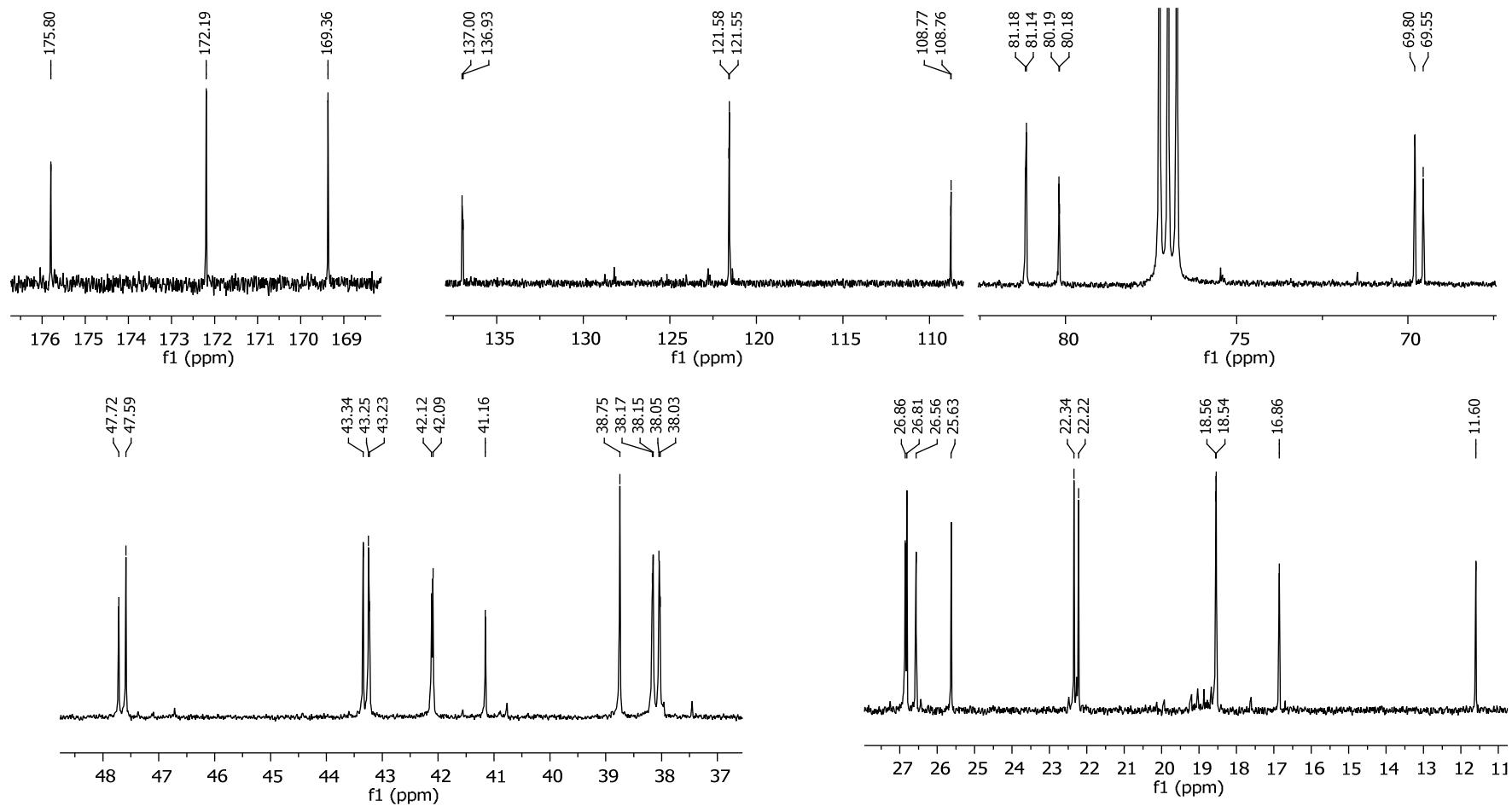


$^1\text{H}$  NMR spectrum of  $8\beta$ -O-(2-methylbutyroyl)tirotundin (**4**) and  $8\beta$ -O-(isovaleroyl)tirotundin (**5**) (600 MHz,  $\text{CDCl}_3$ )

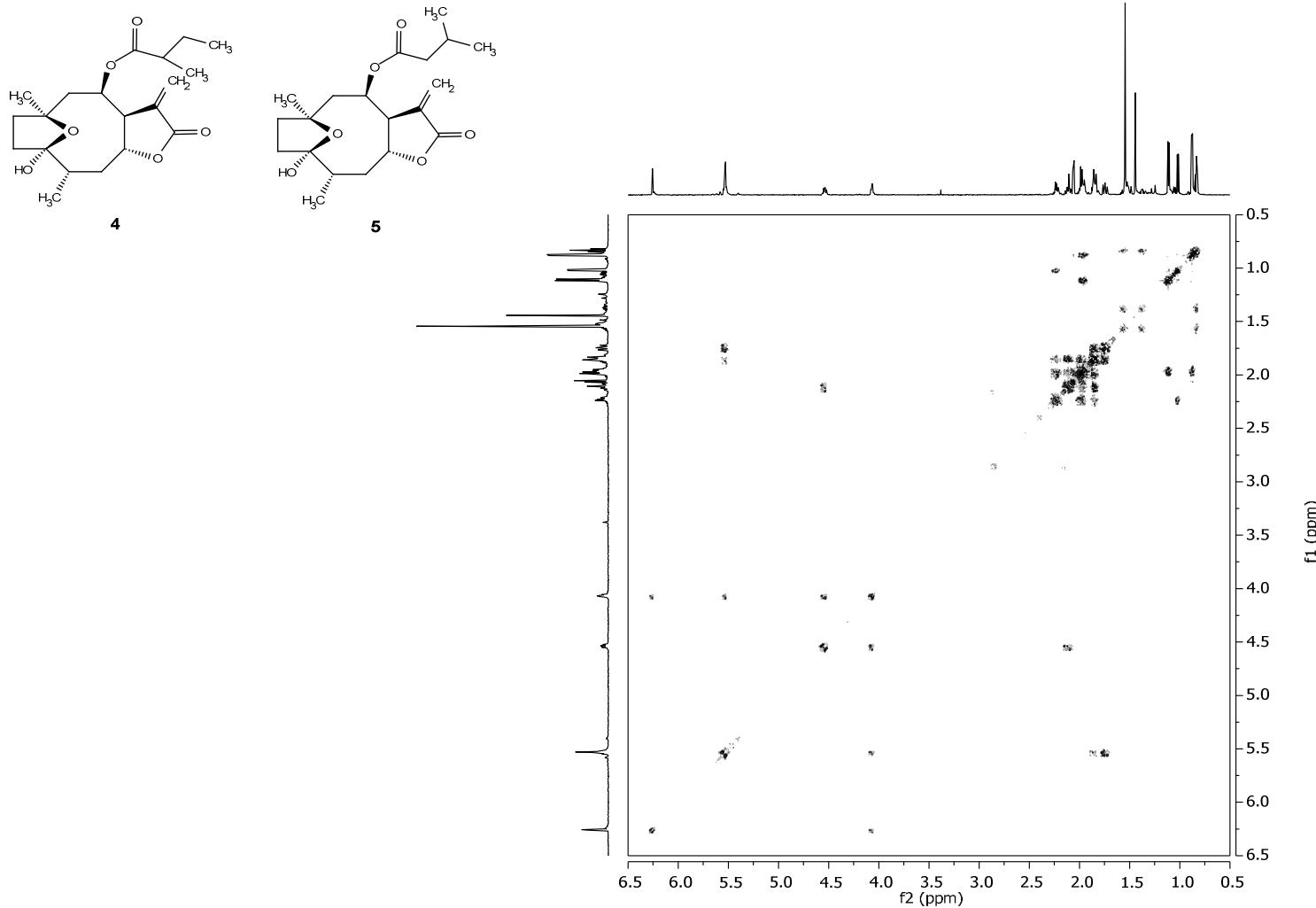


*Expanded regions of  $^1\text{H}$  NMR spectrum of  $8\beta$ -O-(2-methylbutyroyl)tirotundin (4) and  $8\beta$ -O-(isovaleroyl)tirotundin (5) (600 MHz,  $\text{CDCl}_3$ )*

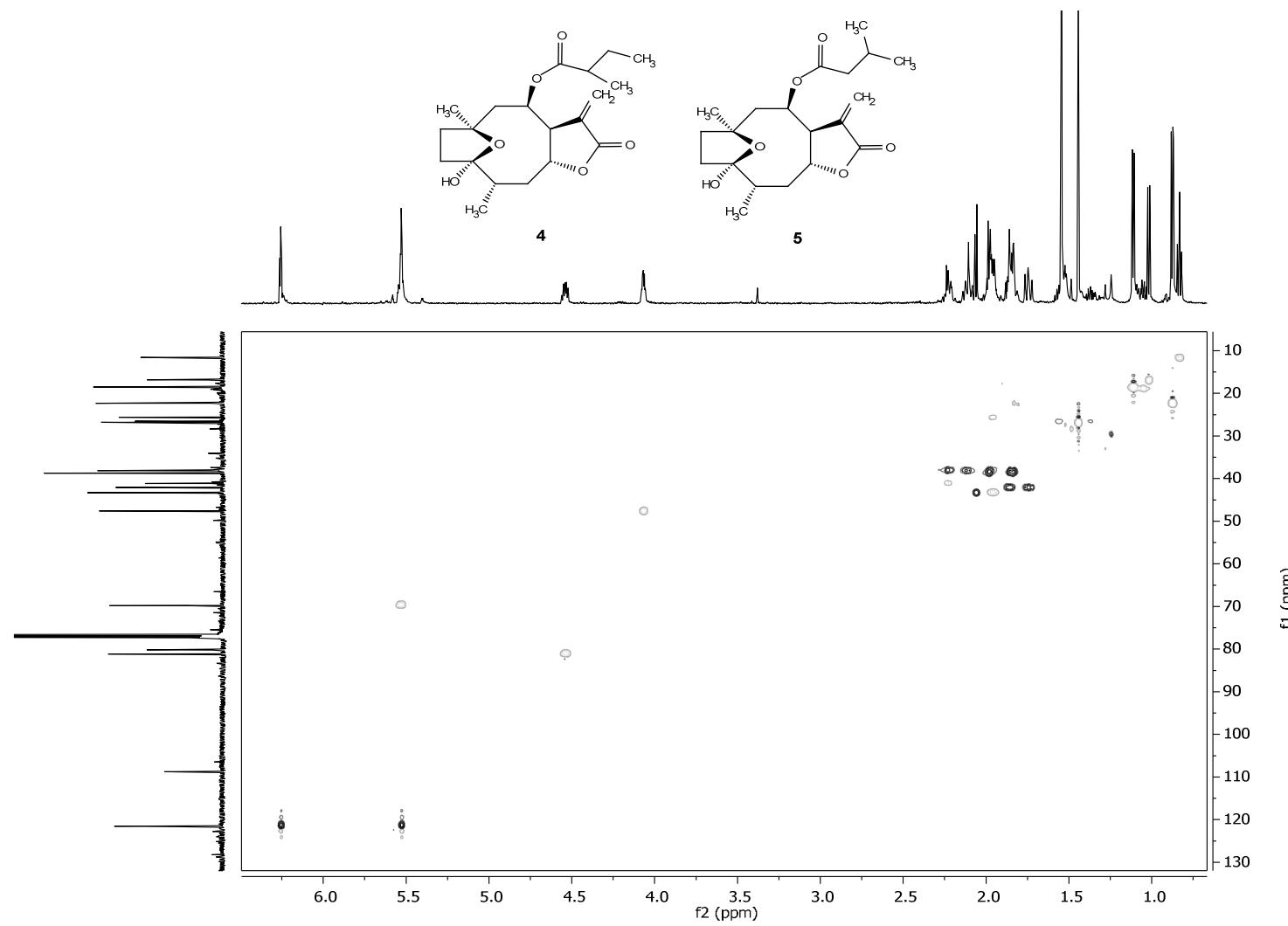




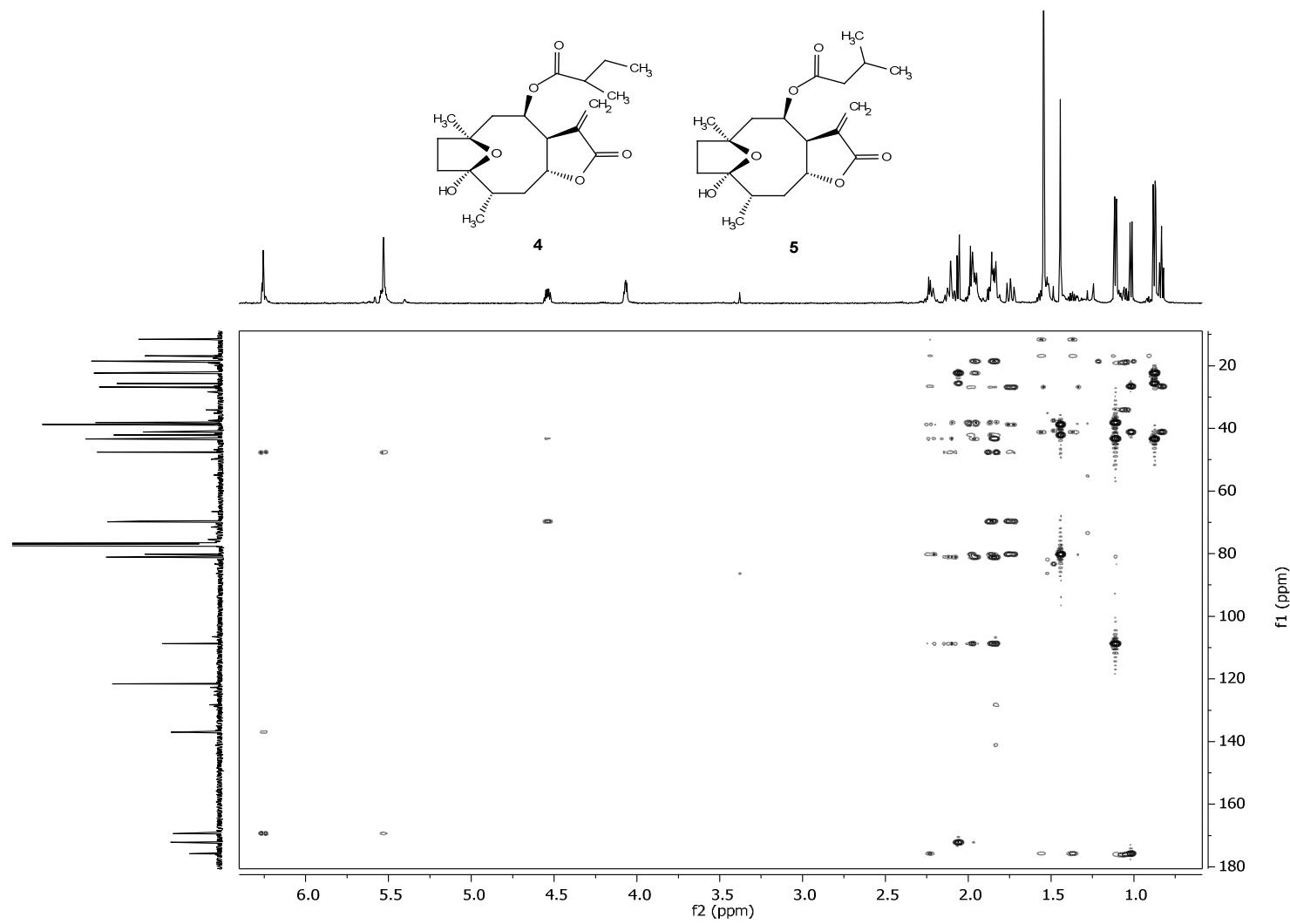
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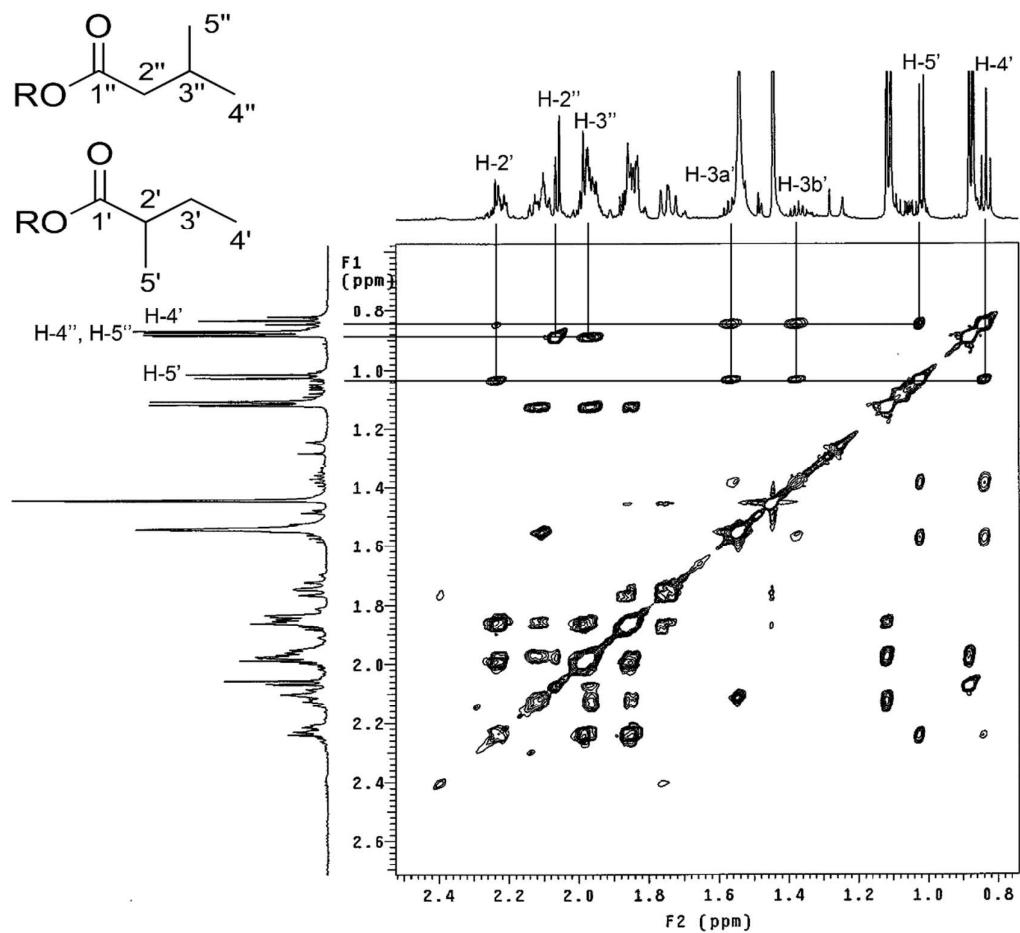
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