

# Support information

## New Lactones Produced by *Streptomyces* sp. SN5431 and Their Antifungal Activity against *Bipolaris maydis*

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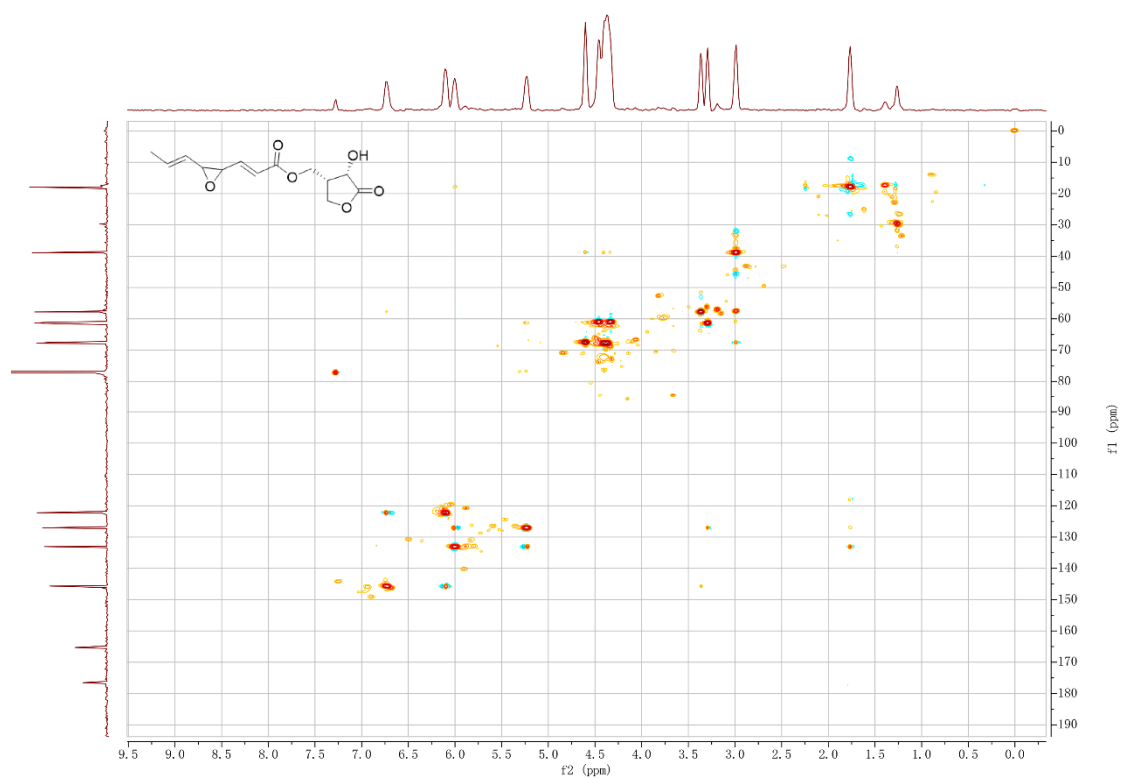
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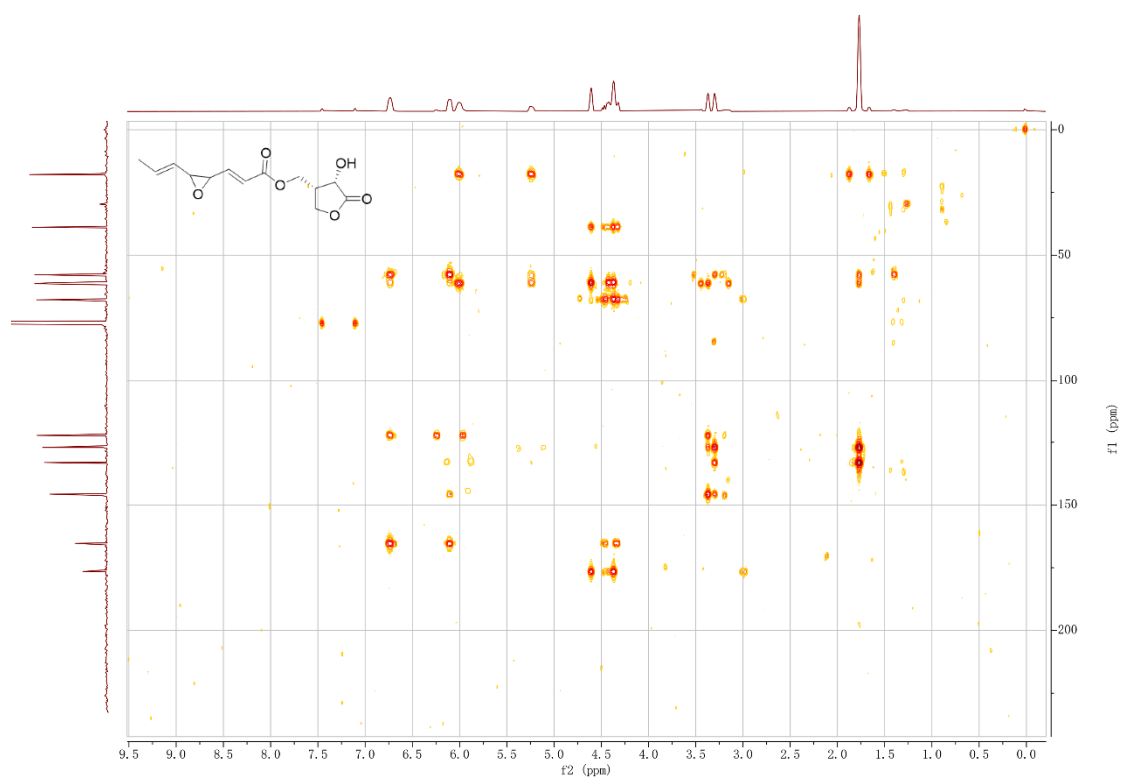
Chemical structure of compound 10 is shown in the top left corner. The  $^{13}\text{C}$  NMR spectrum displays peaks corresponding to the structure, with the following chemical shifts (ppm) labeled above the peaks:

- 176.3215
- 165.2767
- 145.6551
- 138.0089
- 127.6667
- 122.2461
- 67.7346
- 67.5449
- 61.2657
- 61.0493
- 57.7344
- 38.9083
- 17.8783

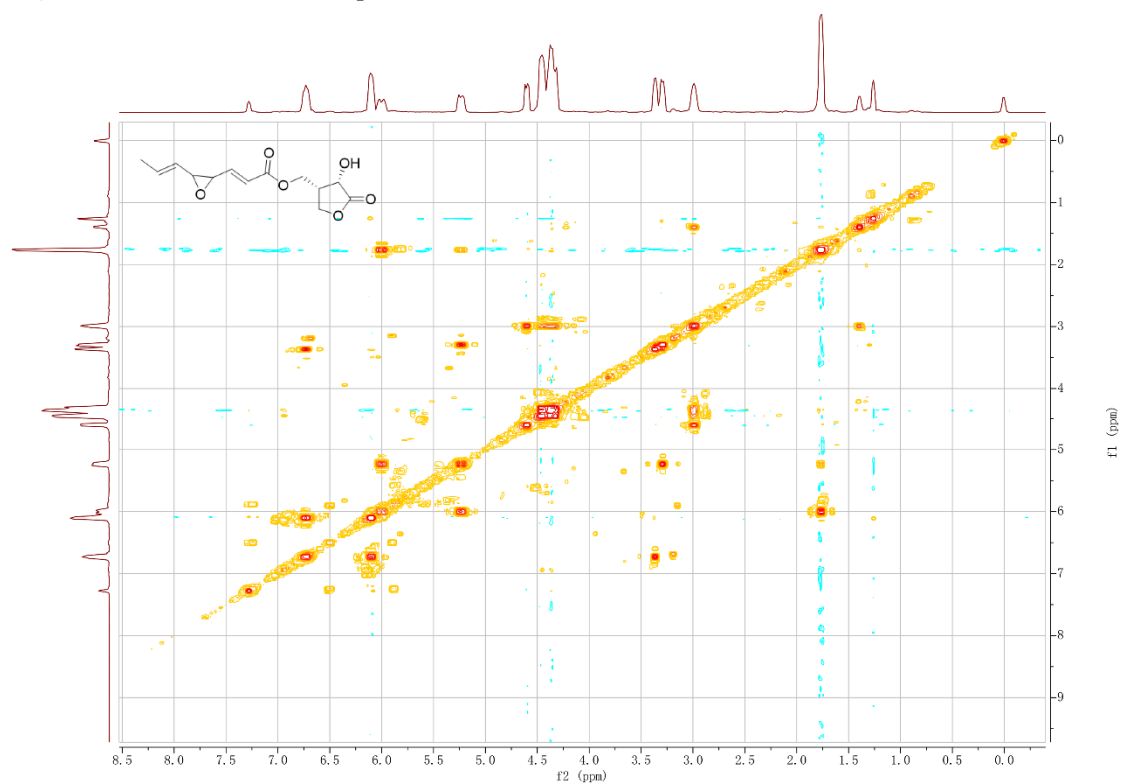
**Figure S3.** The HSQC spectrum of Tiuslactone A, **1**, in CDCL<sub>3</sub>



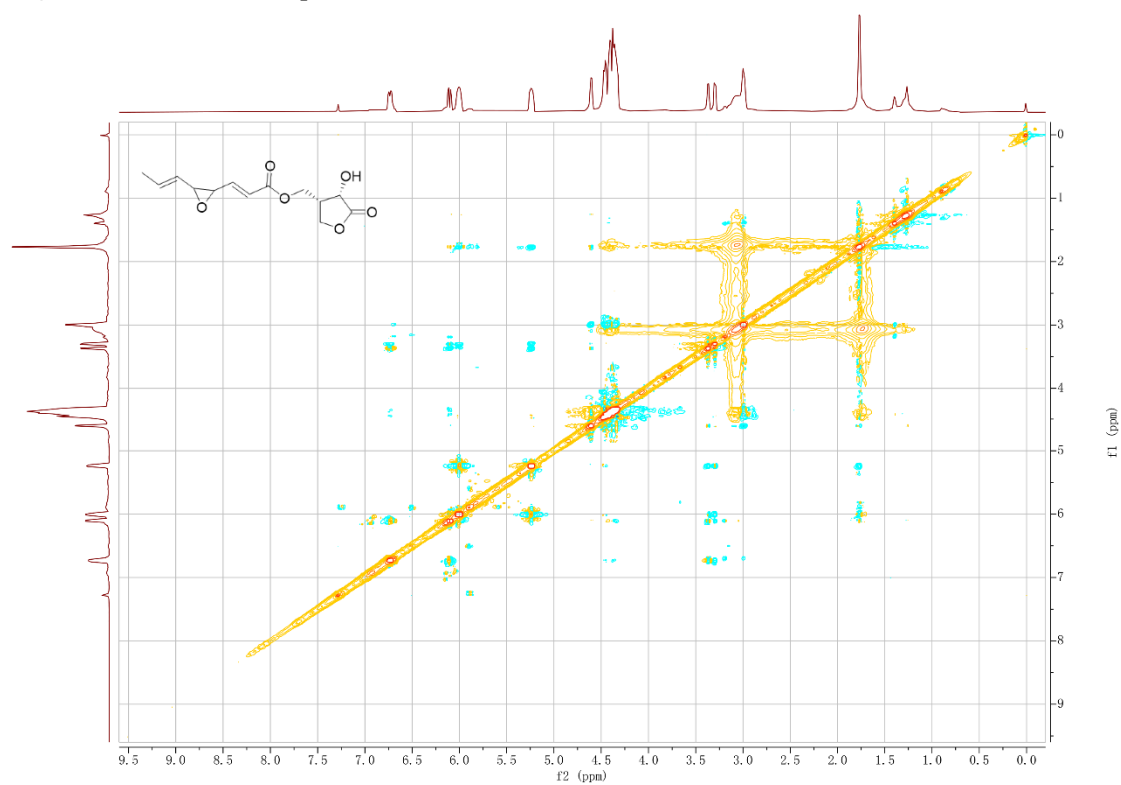
**Figure S4.** The HMBC spectrum of Tiuslactone A, **1**, in CDCL<sub>3</sub>



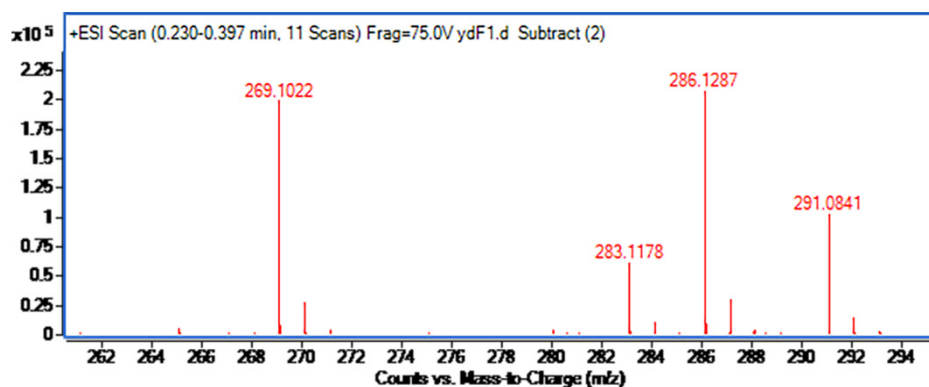
**Figure S5.** The  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of Tiuslactone A, **1**, in  $\text{CDCl}_3$



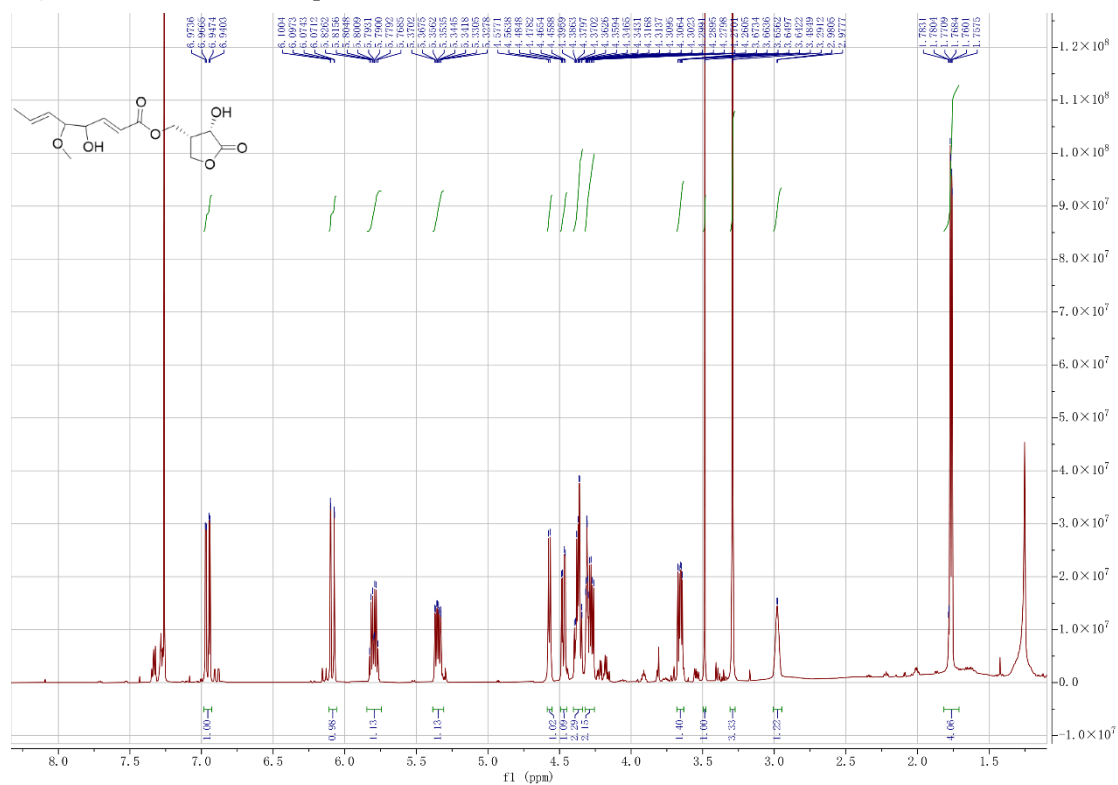
**Figure S6.** The NOESY spectrum of Tiuslactone A, **1**, in  $\text{CDCl}_3$



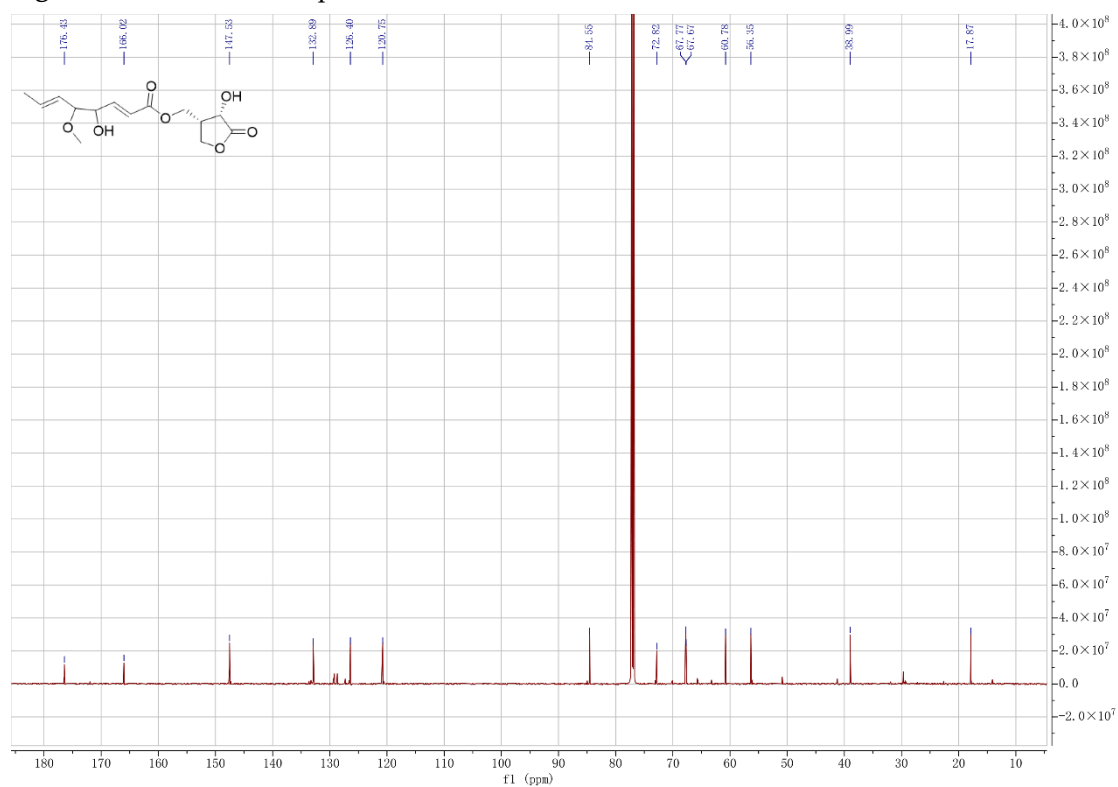
**Figure S7.** The HRESIMS spectrum of Tiuslactone A, **1**



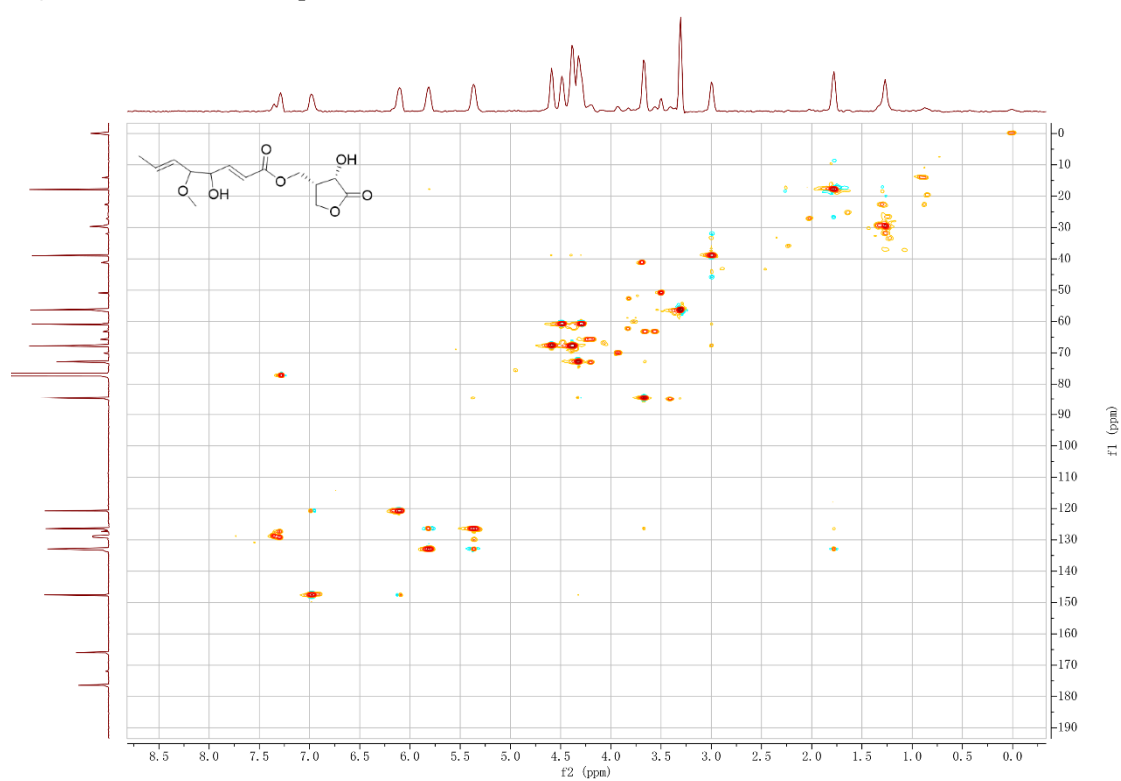
**Figure S8.** The  $^1\text{H}$ -NMR spectrum of Tiuslactone B, **2**, in  $\text{CDCl}_3$



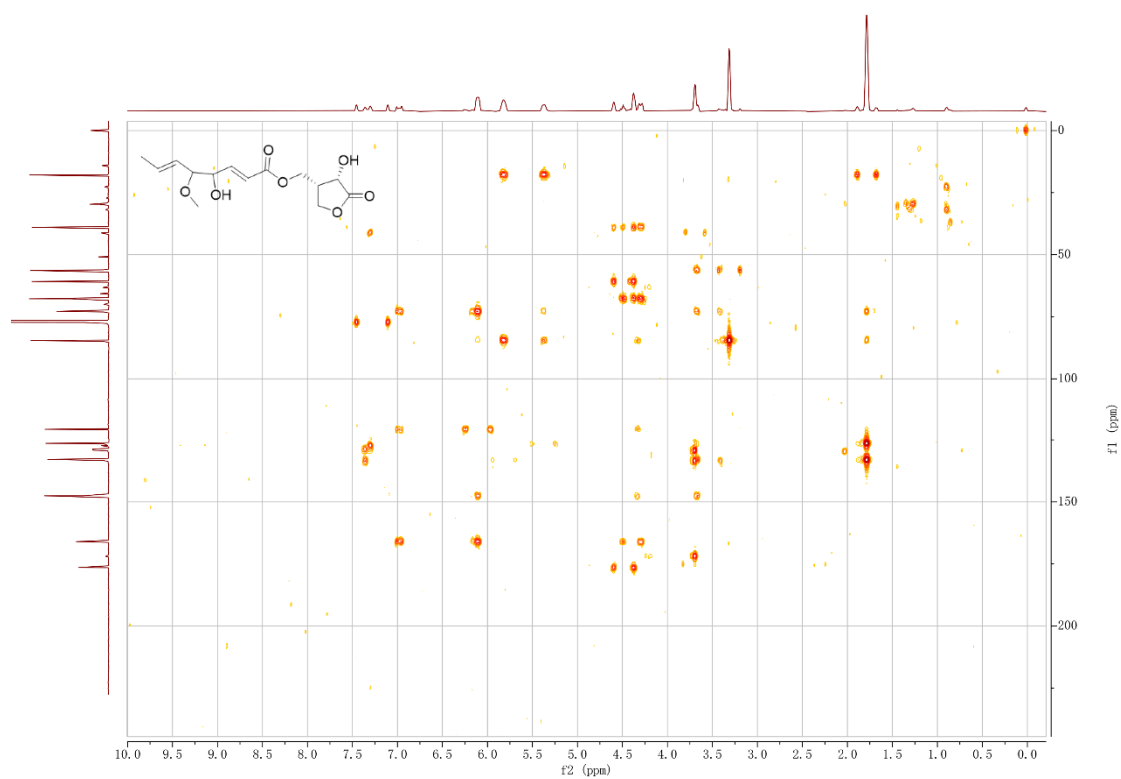
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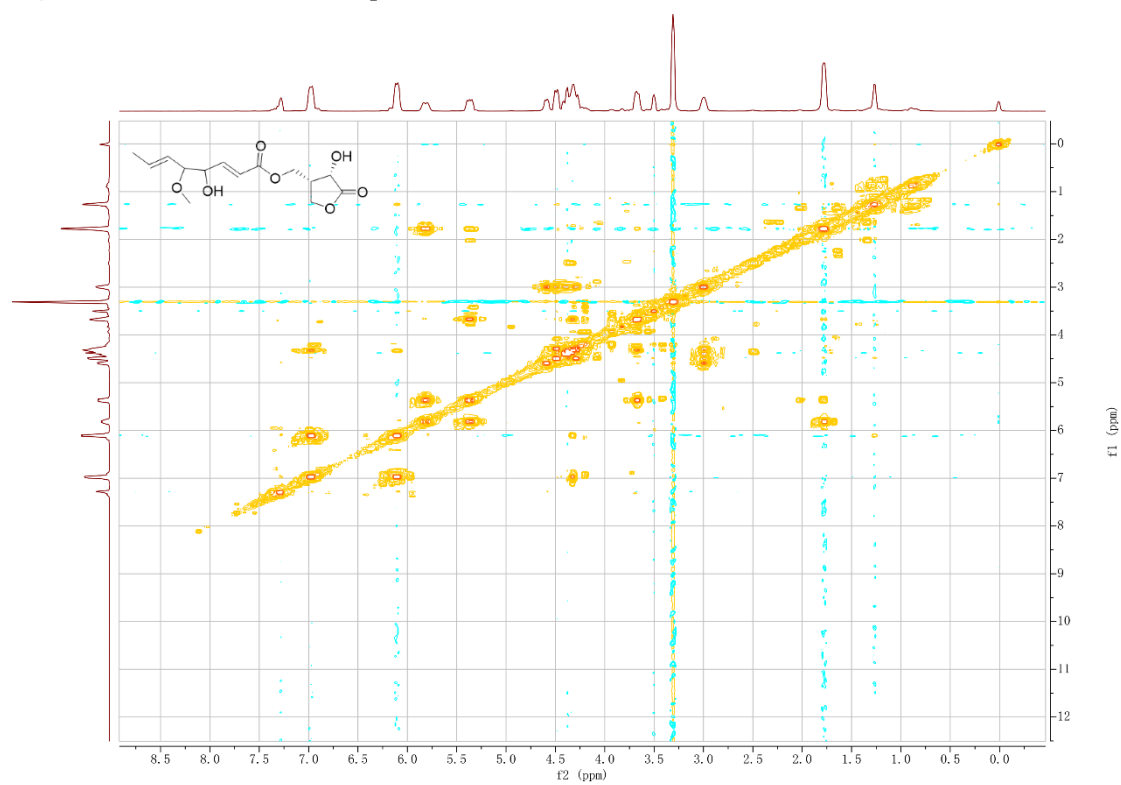
**Figure S10.** The HSQC spectrum of Tiuslactone B, **2**, in  $\text{CDCl}_3$



**Figure S11.** The HMBC spectrum of Tiuslactone B, **2**, in CDCl<sub>3</sub>

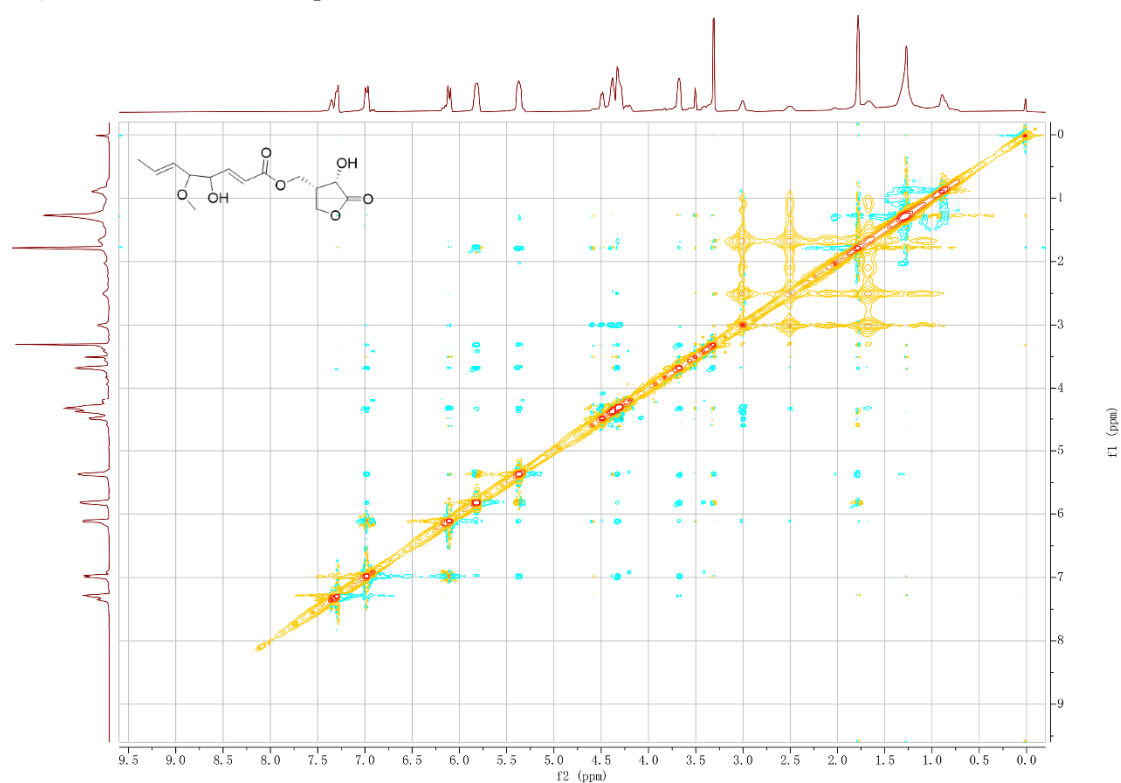


**Figure S12.** The <sup>1</sup>H-<sup>1</sup>H COSY spectrum of Tiuslactone B, **2**, in CDCl<sub>3</sub>

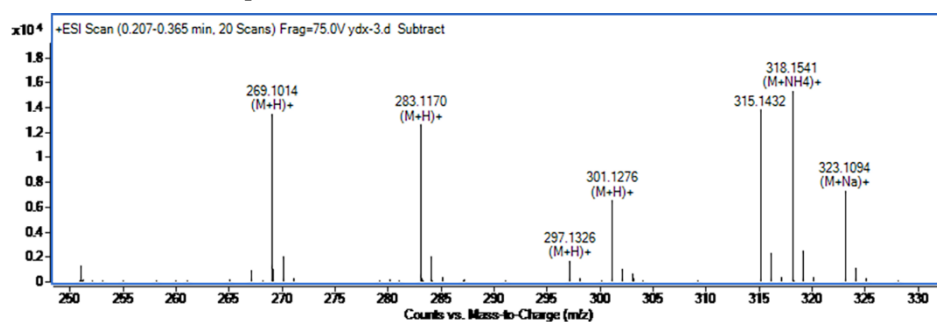




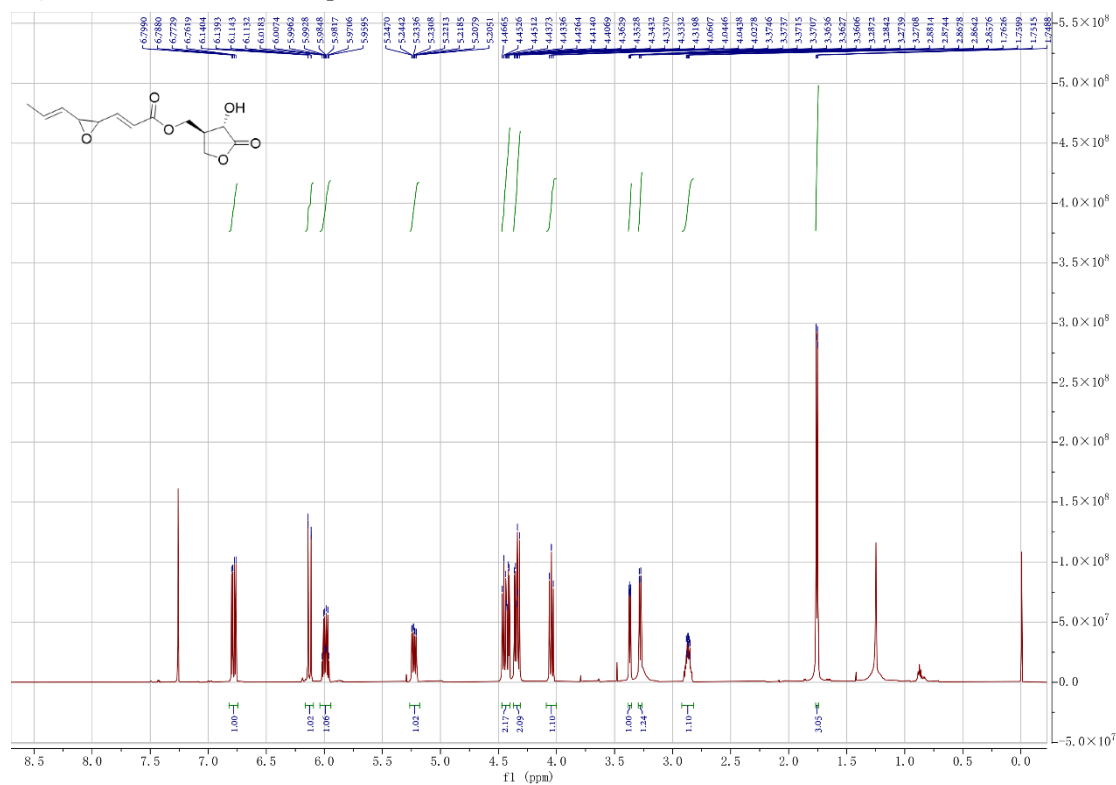
**Figure S13.** The NOESY spectrum of Tiuslactone B, **2**, in CDCL<sub>3</sub>



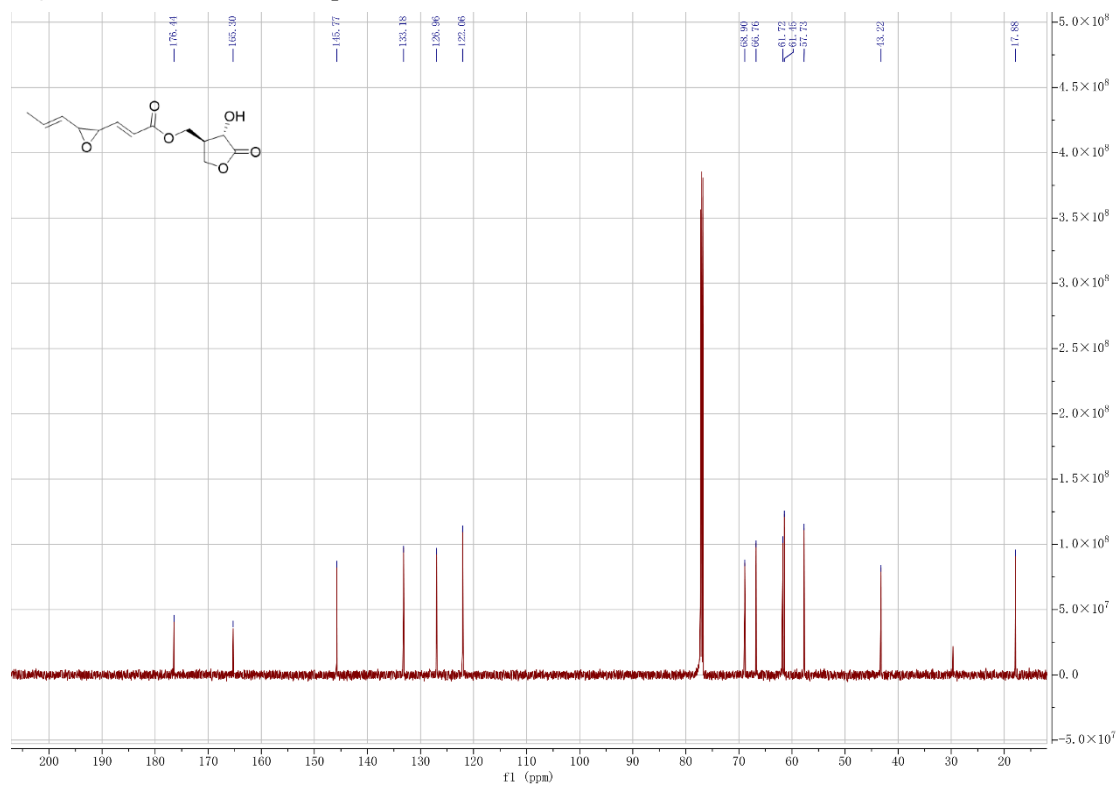
**Figure S14.** The HRESIMS spectrum of Tiuslactone B, **2**



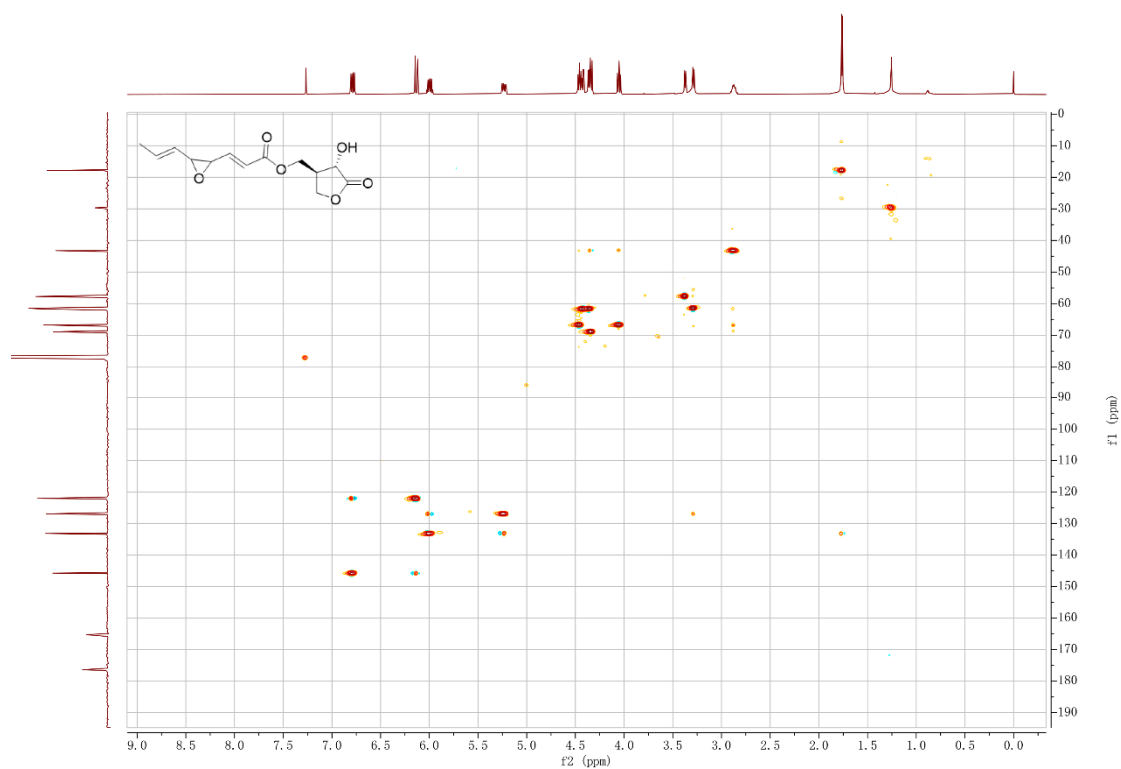
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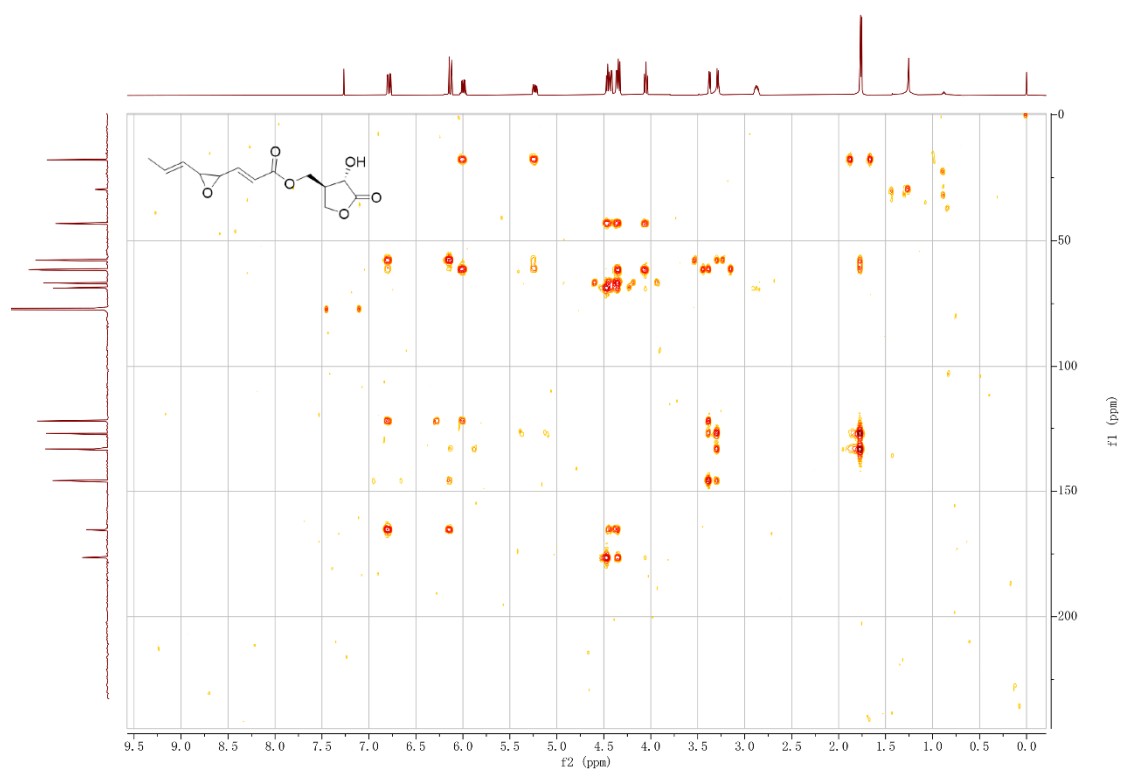
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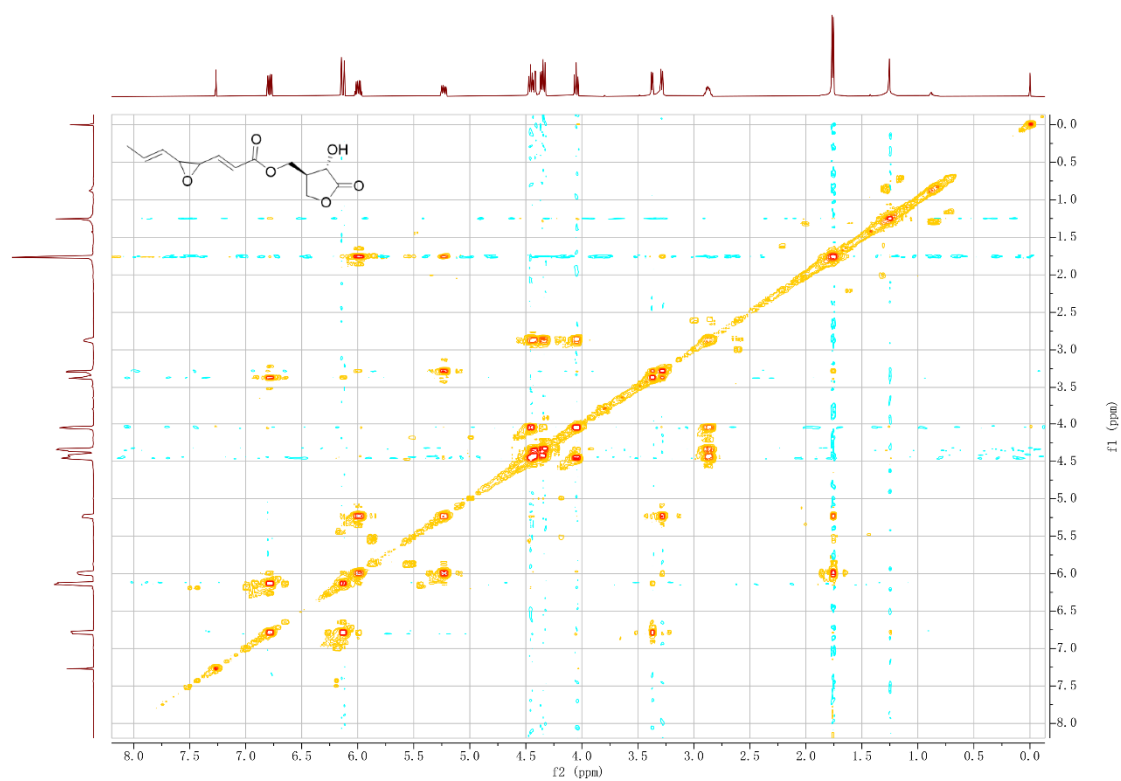
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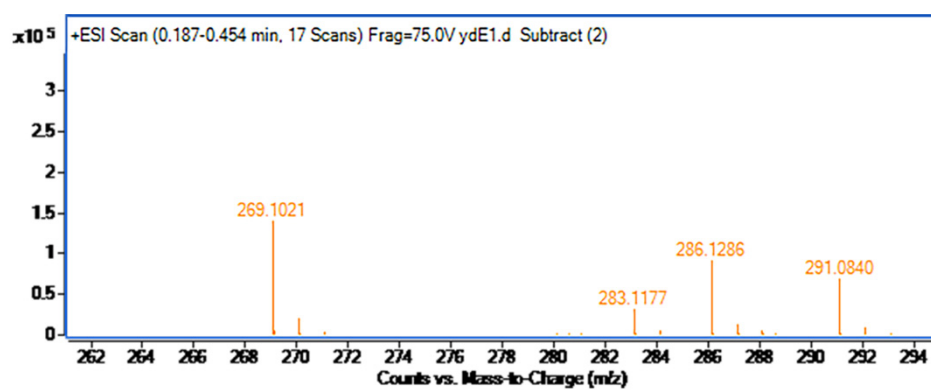
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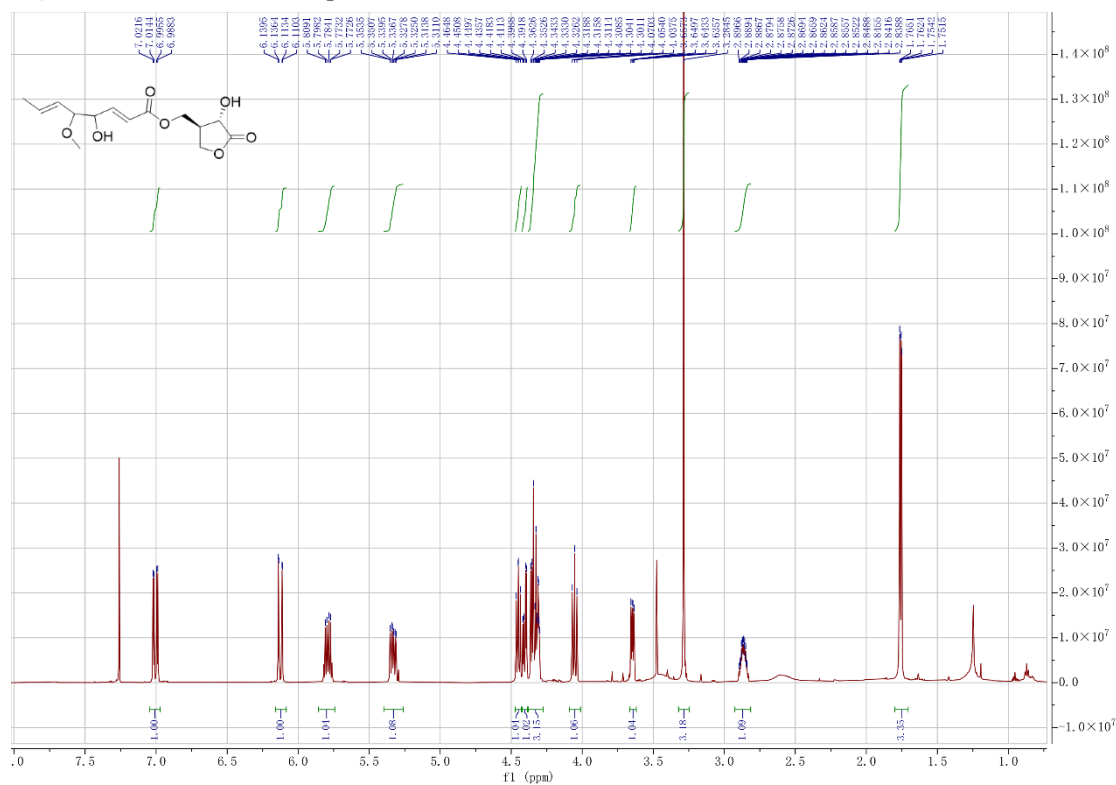
**Figure S19.** The  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of Tiuslactone C, **3**, in  $\text{CDCl}_3$



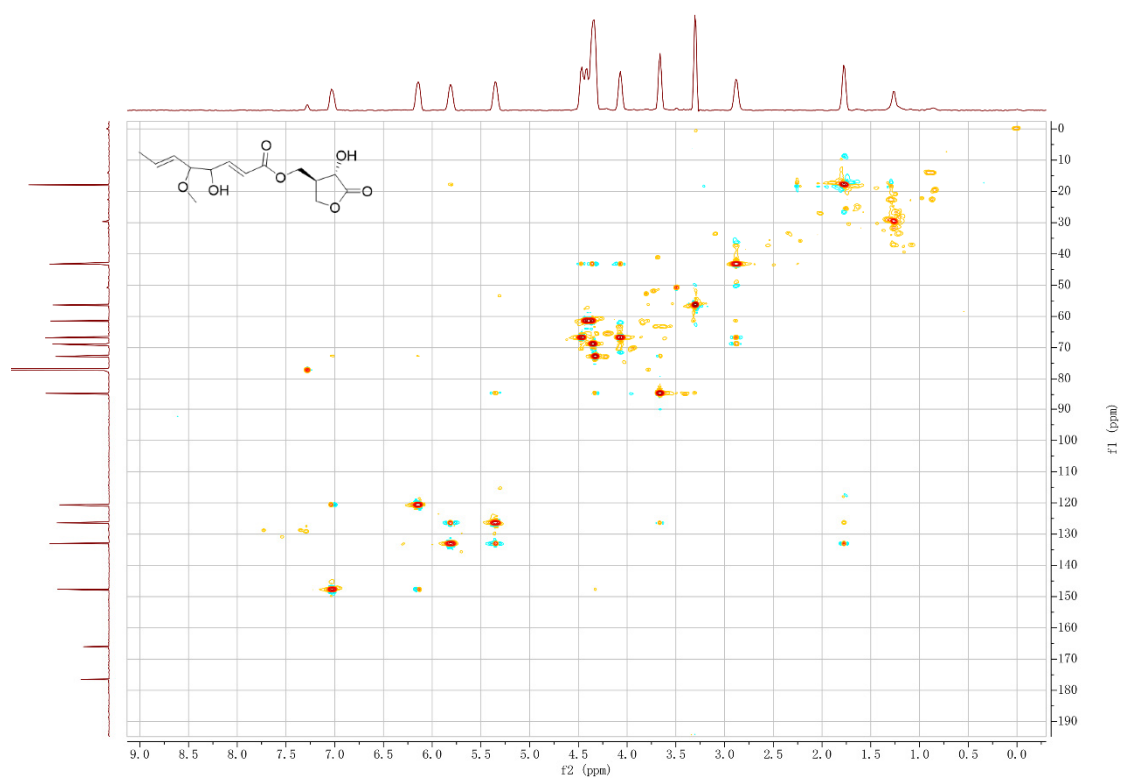
**Figure S20.** The HRESIMS spectrum of Tiuslactone C, **3**



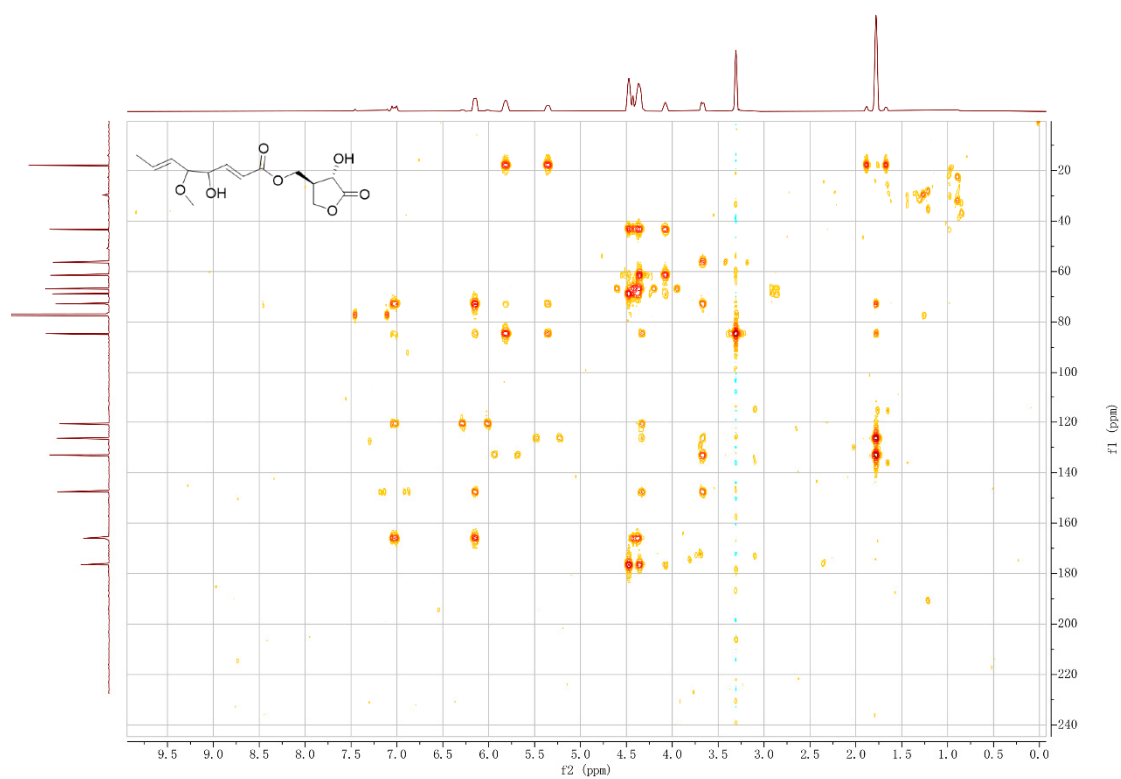
**Figure S21.** The  $^1\text{H}$ -NMR spectrum of Tiuslactone D, **4**, in  $\text{CDCl}_3$



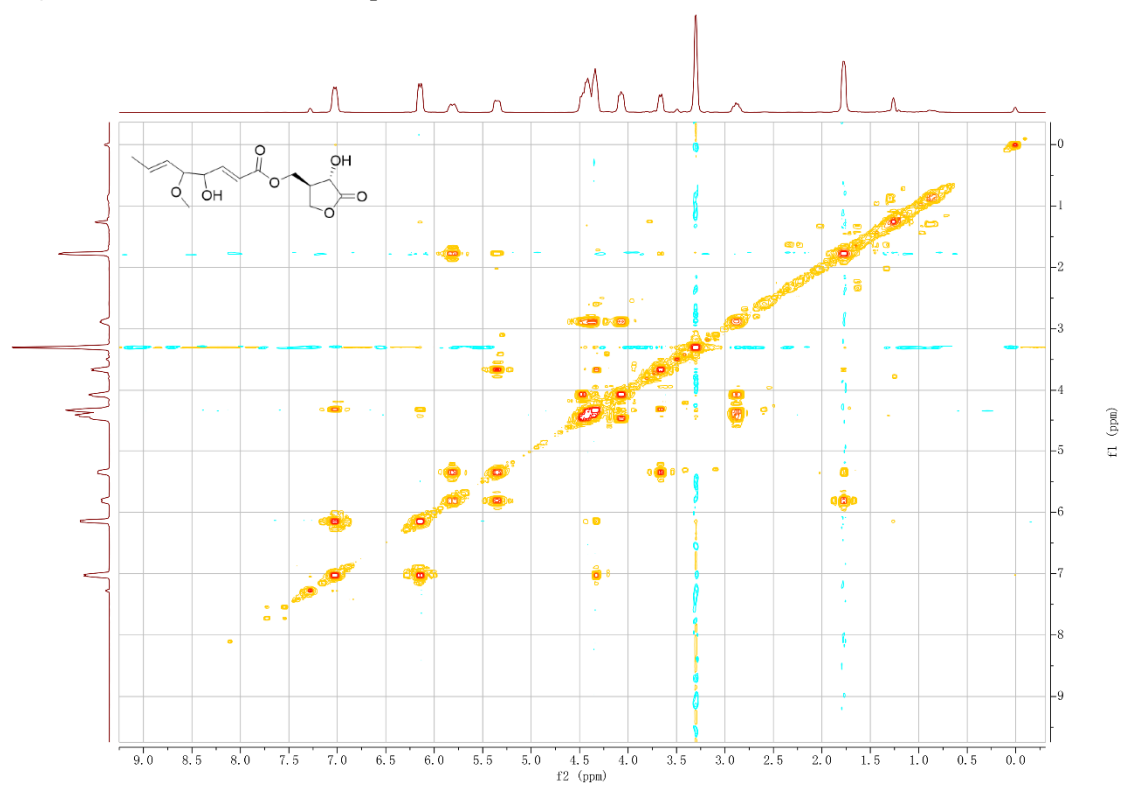
**Figure S23.** The HSQC spectrum of Tiuslactone D, **4**, in CDCL<sub>3</sub>



**Figure S24.** The HMBC spectrum of Tiuslactone D, **4**, in CDCL<sub>3</sub>



**Figure S25.** The  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of Tiuslactone D, **4**, in  $\text{CDCl}_3$



**Figure S26.** The NOESY spectrum of Tiuslactone D, **4**, in  $\text{CDCl}_3$

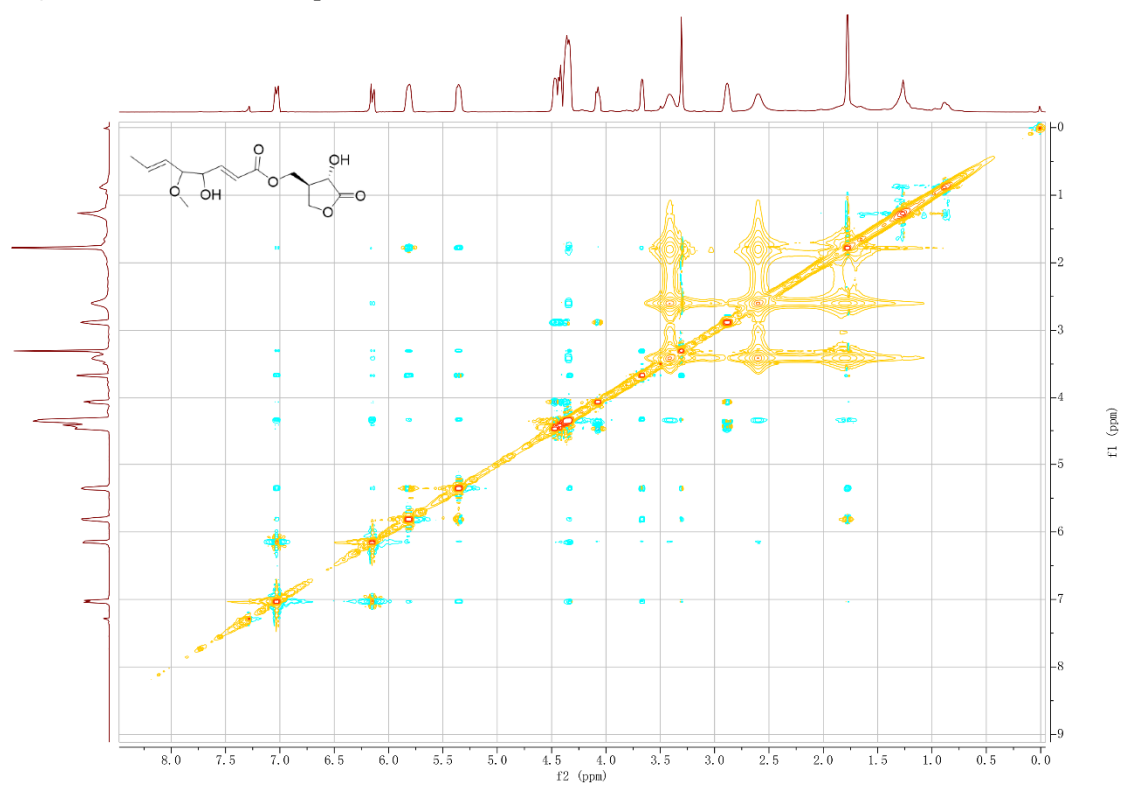


Figure S27. The HRESIMS spectrum of Tiuslactone D, 4

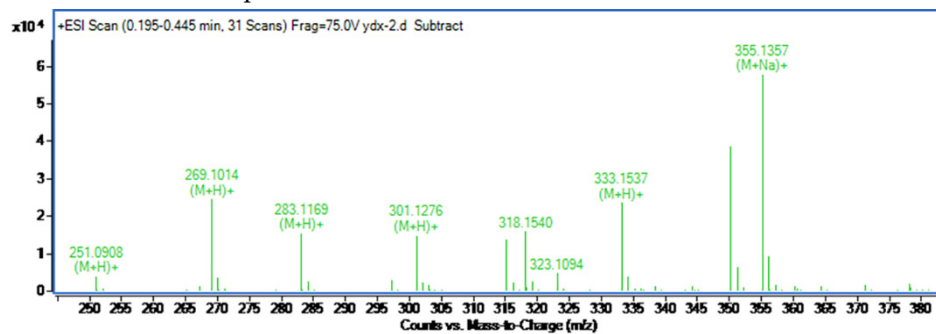
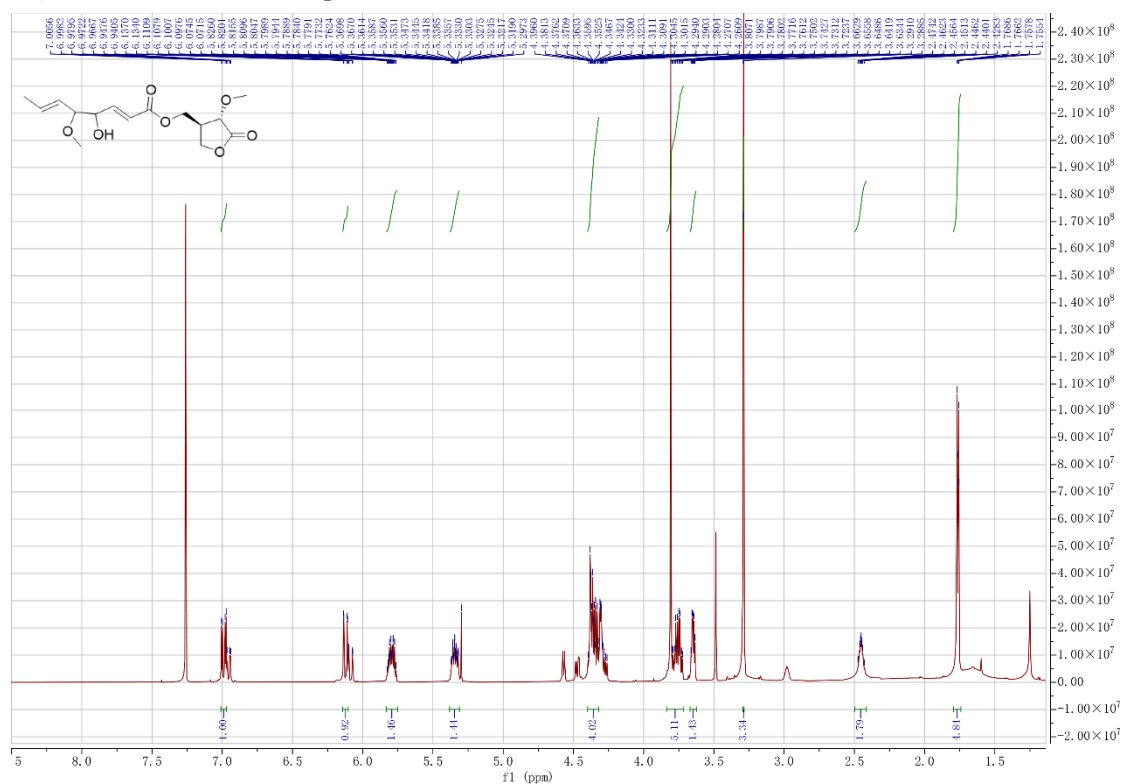
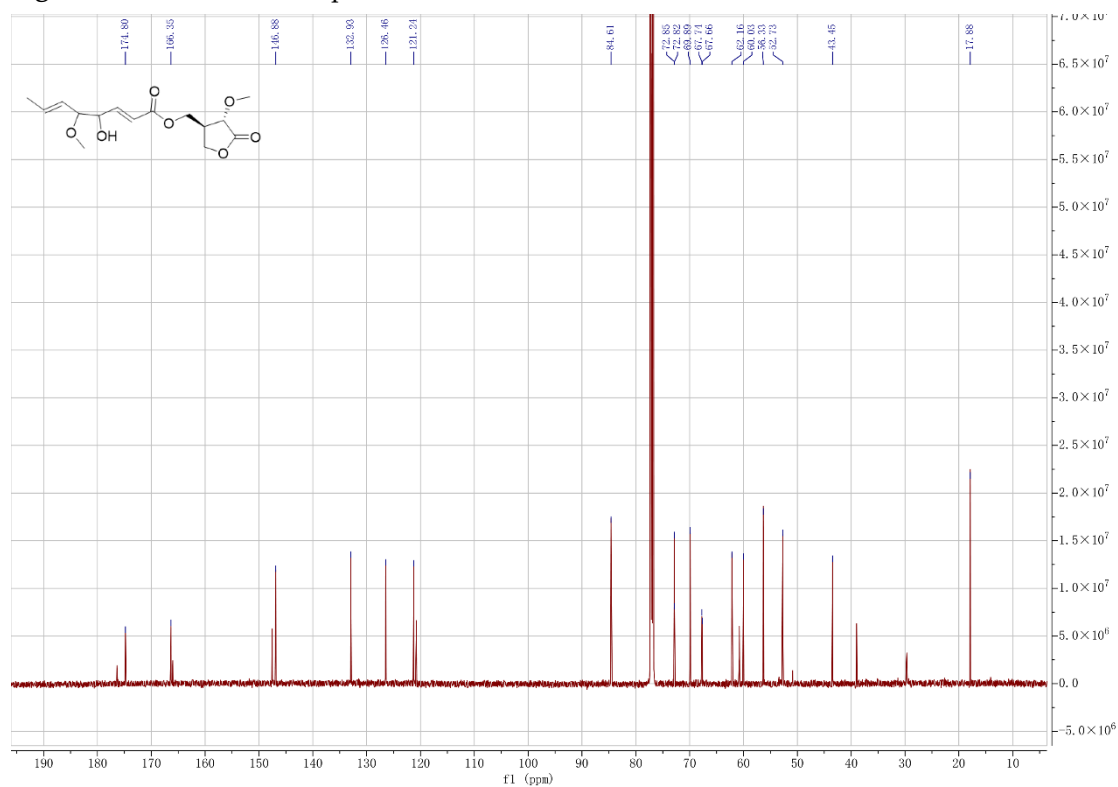


Figure S28. The  $^1\text{H}$ -NMR spectrum of Tiuslactone E, 5, in  $\text{CDCl}_3$

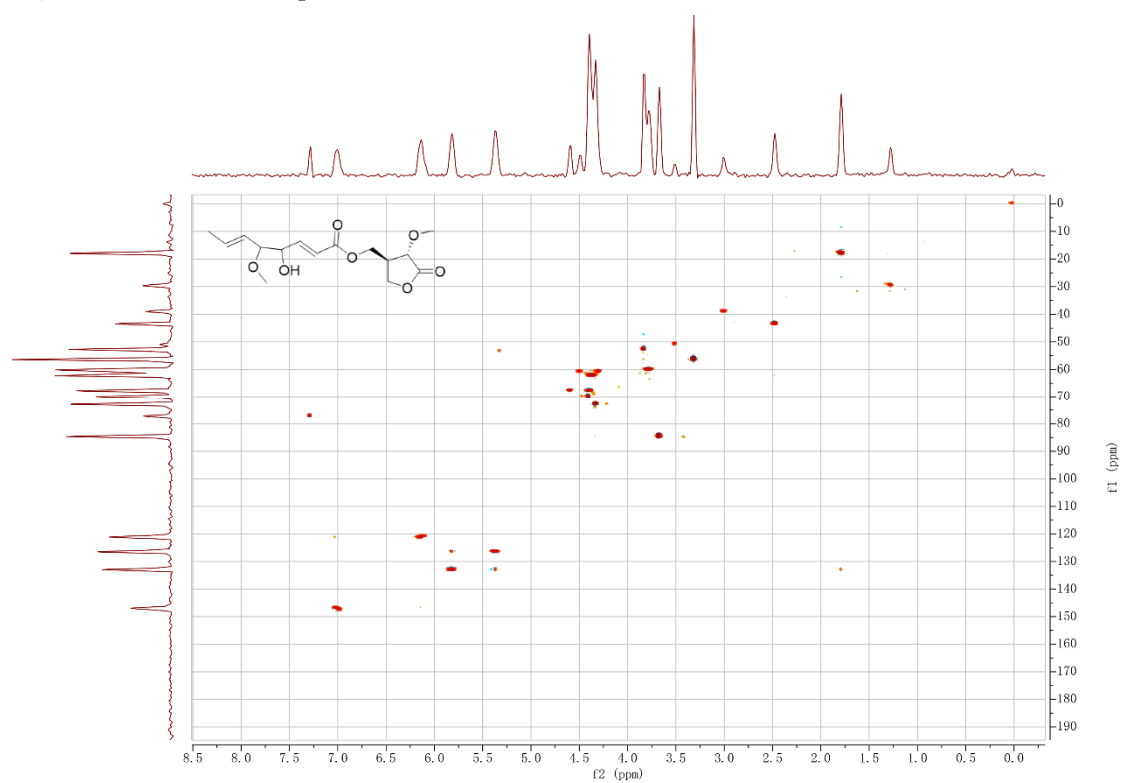




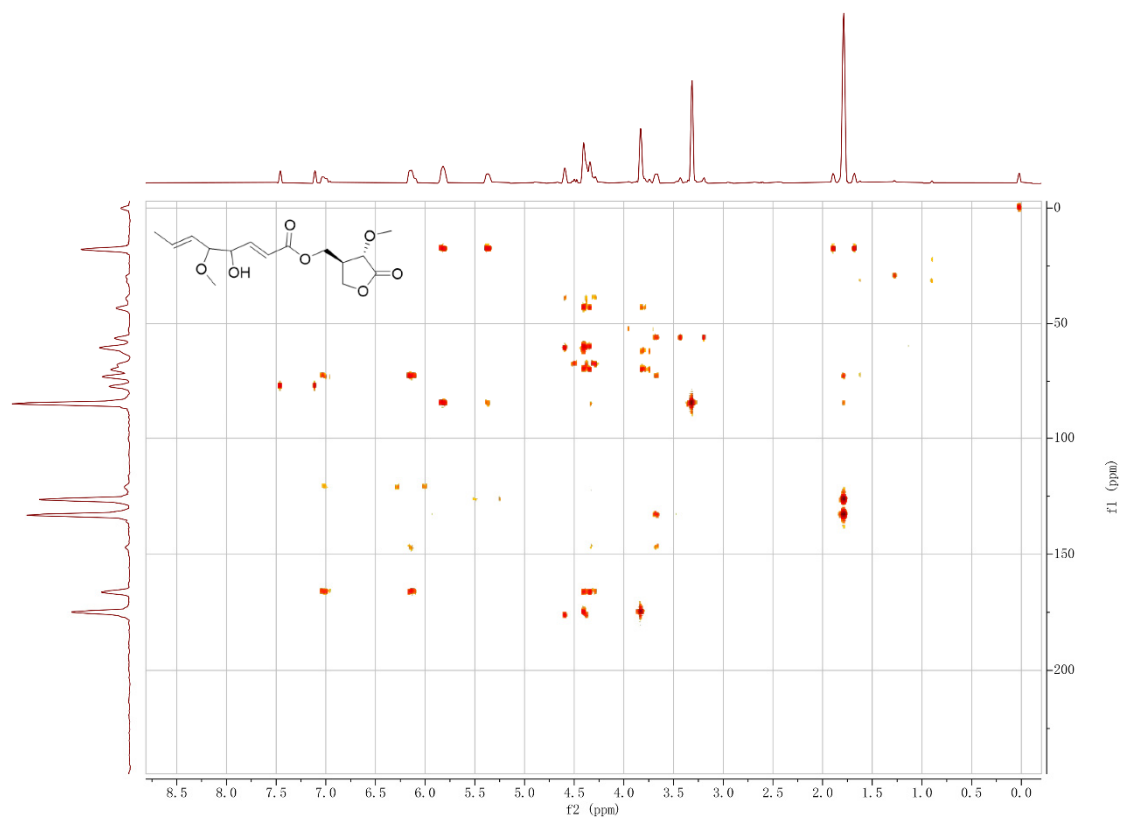
**Figure S29.** The  $^{13}\text{C}$ -NMR spectrum of Tiuslactone E, **5**, in  $\text{CDCl}_3$



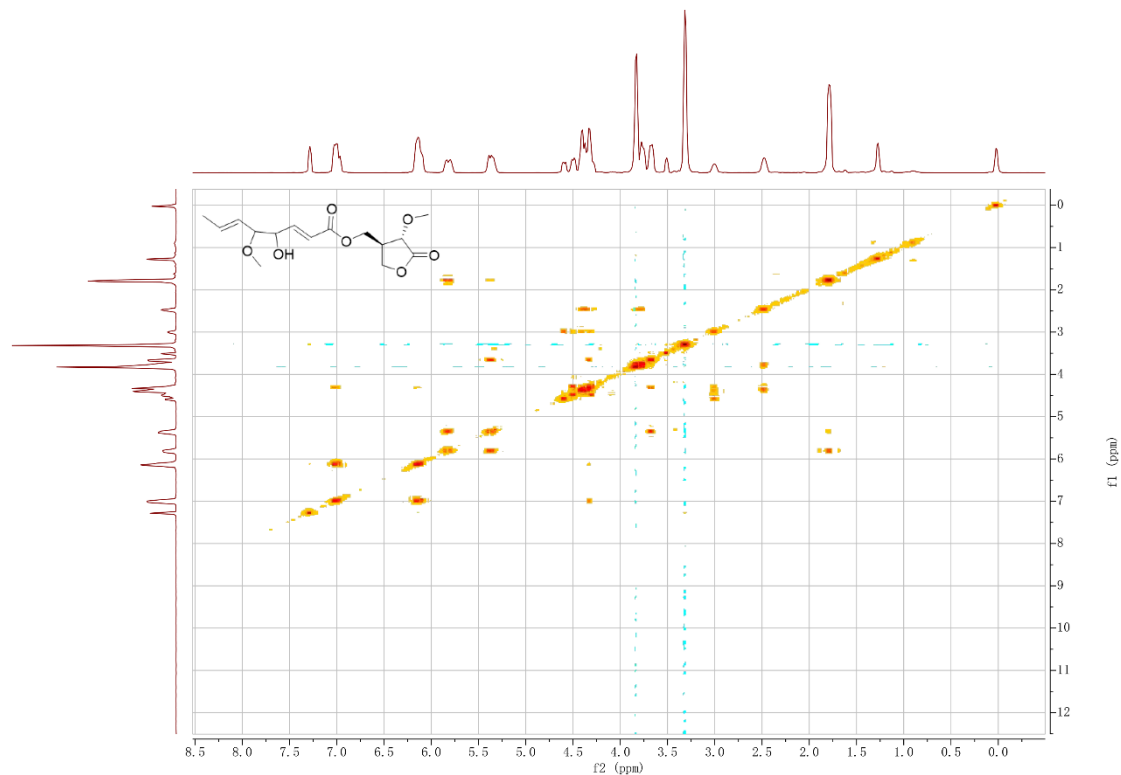
**Figure S30.** The HSQC spectrum of Tiuslactone E, **5**, in  $\text{CDCl}_3$



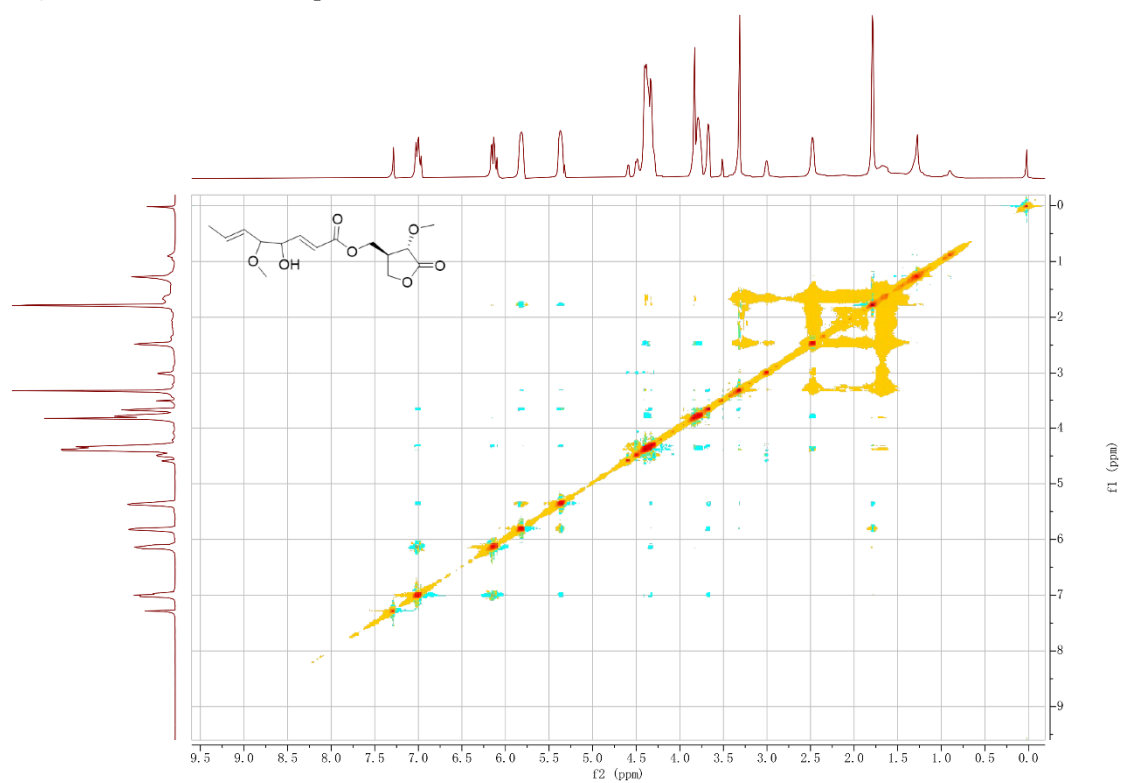
**Figure S31.** The HMBC spectrum of Tiuslactone E, **5**, in CDCl<sub>3</sub>



**Figure S32.** The <sup>1</sup>H-<sup>1</sup>H COSY spectrum of Tiuslactone E, **5**, in CDCl<sub>3</sub>



**Figure S33.** The NOESY spectrum of Tiuslactone E, **5**, in CDCl<sub>3</sub>



**Figure S34.** The HRESIMS spectrum of Tiuslactone E, **5**

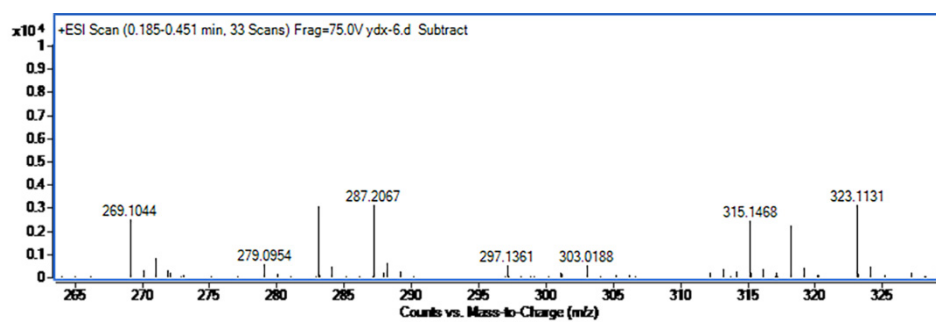


Figure S35. The  $^1\text{H}$ -NMR spectrum of Tiuslactone F, **6**, in  $\text{CDCl}_3$

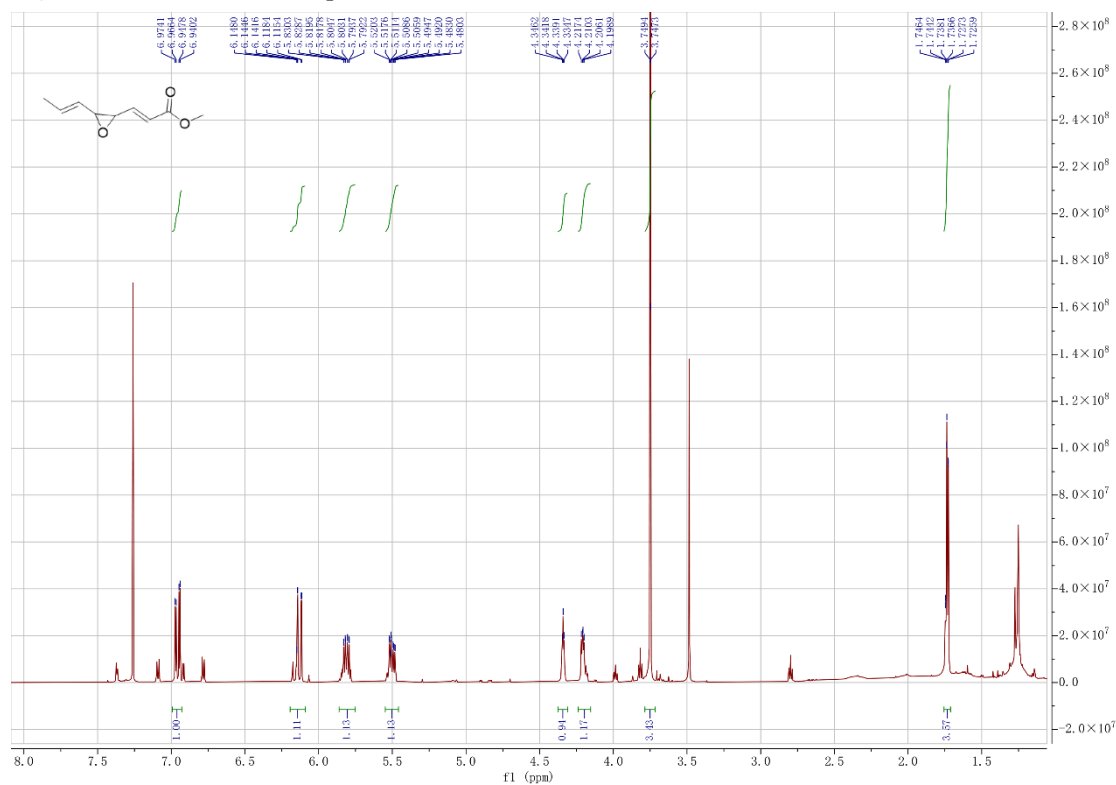
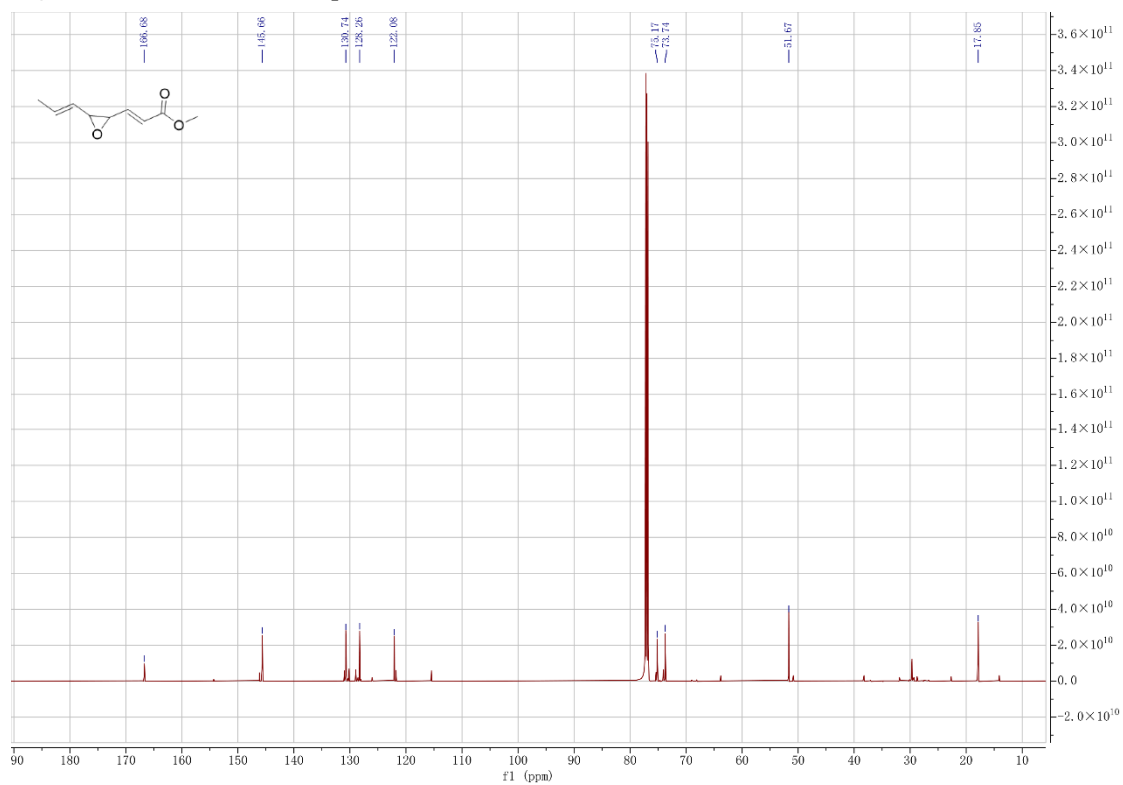
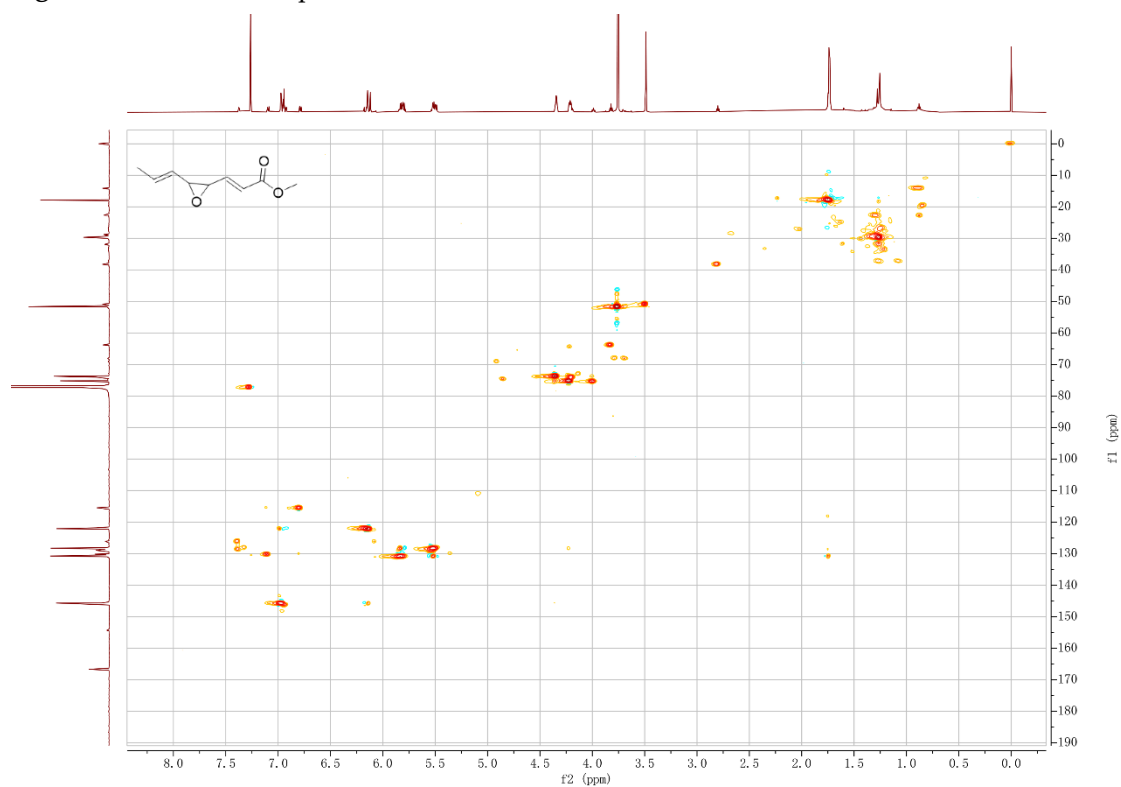


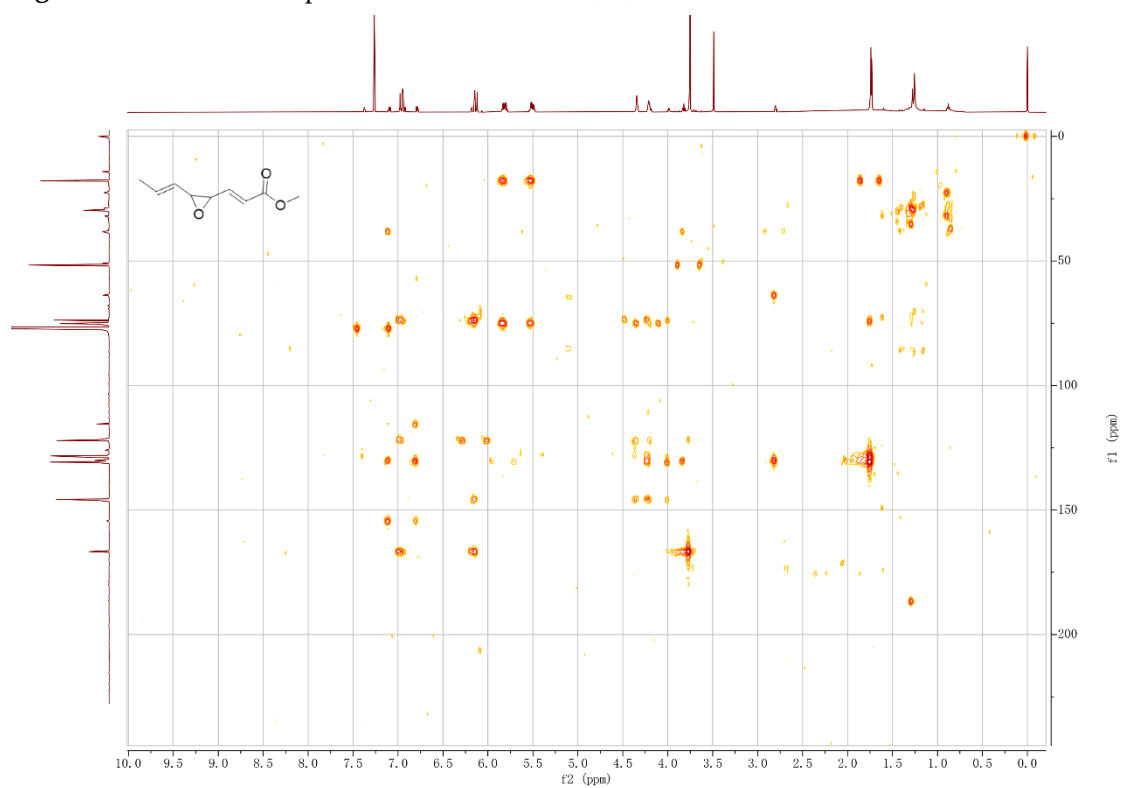
Figure S36. The  $^{13}\text{C}$ -NMR spectrum of Tiuslactone F, **6**, in  $\text{CDCl}_3$



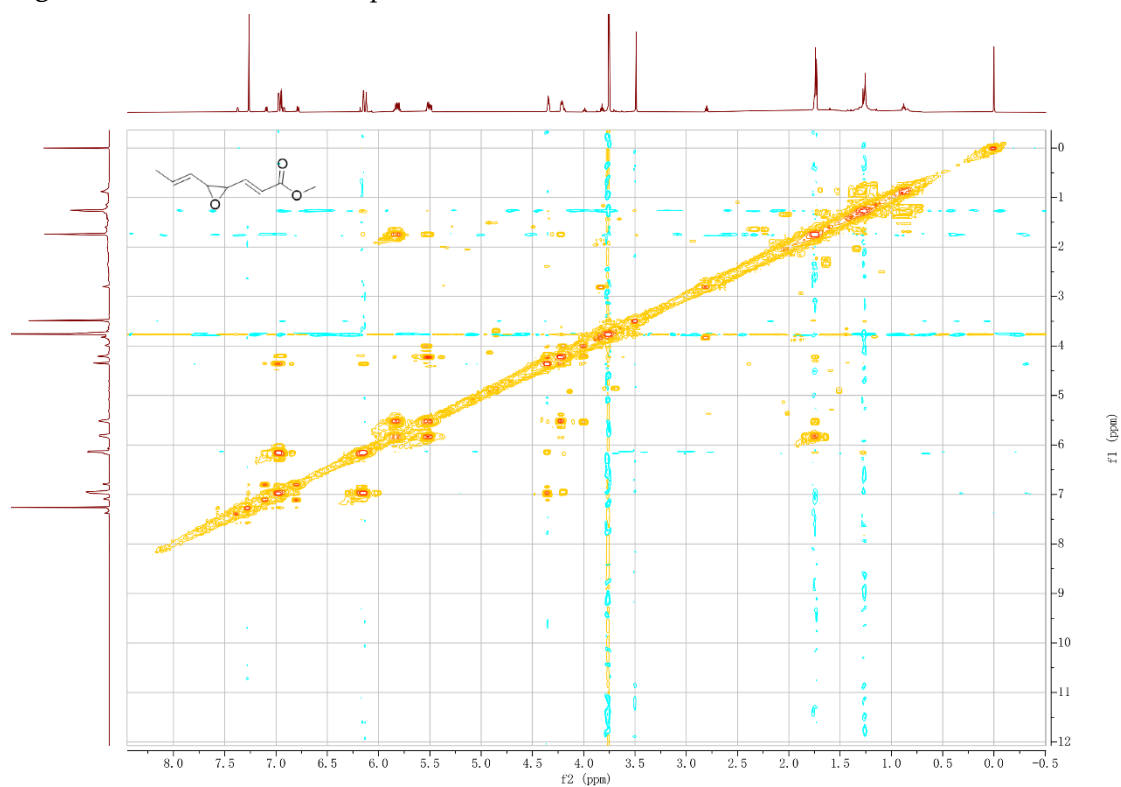
**Figure S37.** The HSQC spectrum of Tiuslactone F, **6**, in CDCL<sub>3</sub>



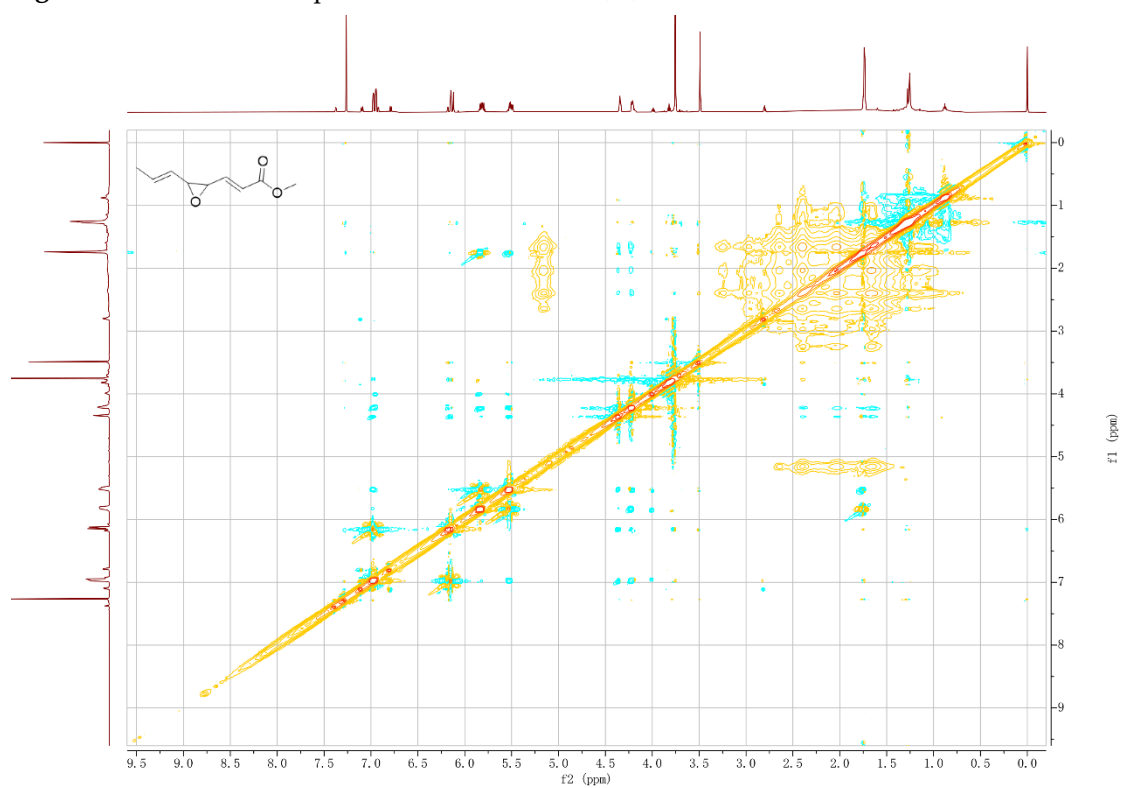
**Figure S38.** The HMBC spectrum of Tiuslactone F, **6**, in CDCL<sub>3</sub>



**Figure S39.** The  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of Tiuslactone F, **6**, in  $\text{CDCl}_3$



**Figure S40.** The NOESY spectrum of Tiuslactone F, **6**, in  $\text{CDCl}_3$



**Figure S41.** The HRESIMS spectrum of Tiuslactone F, **6**

