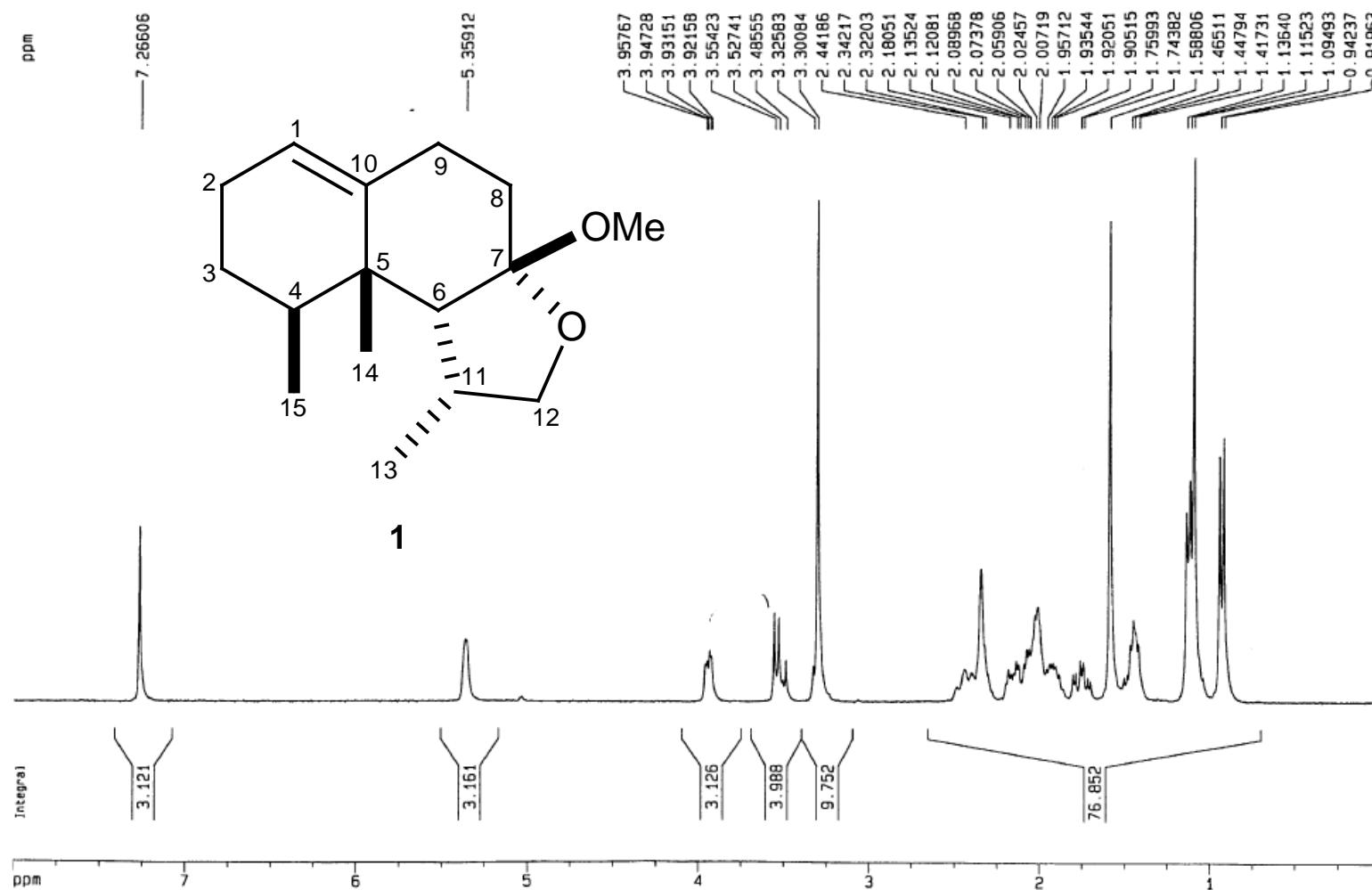
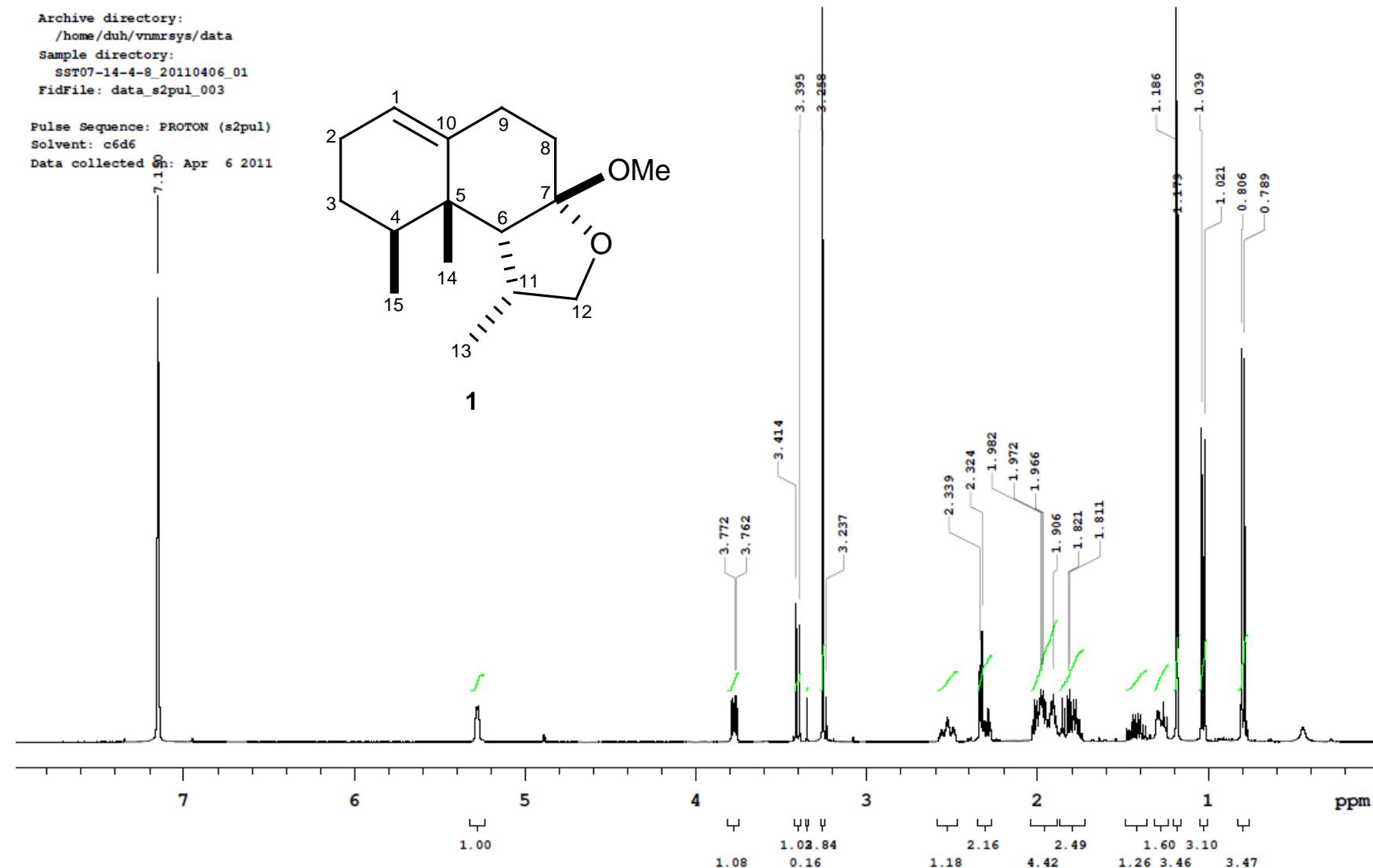


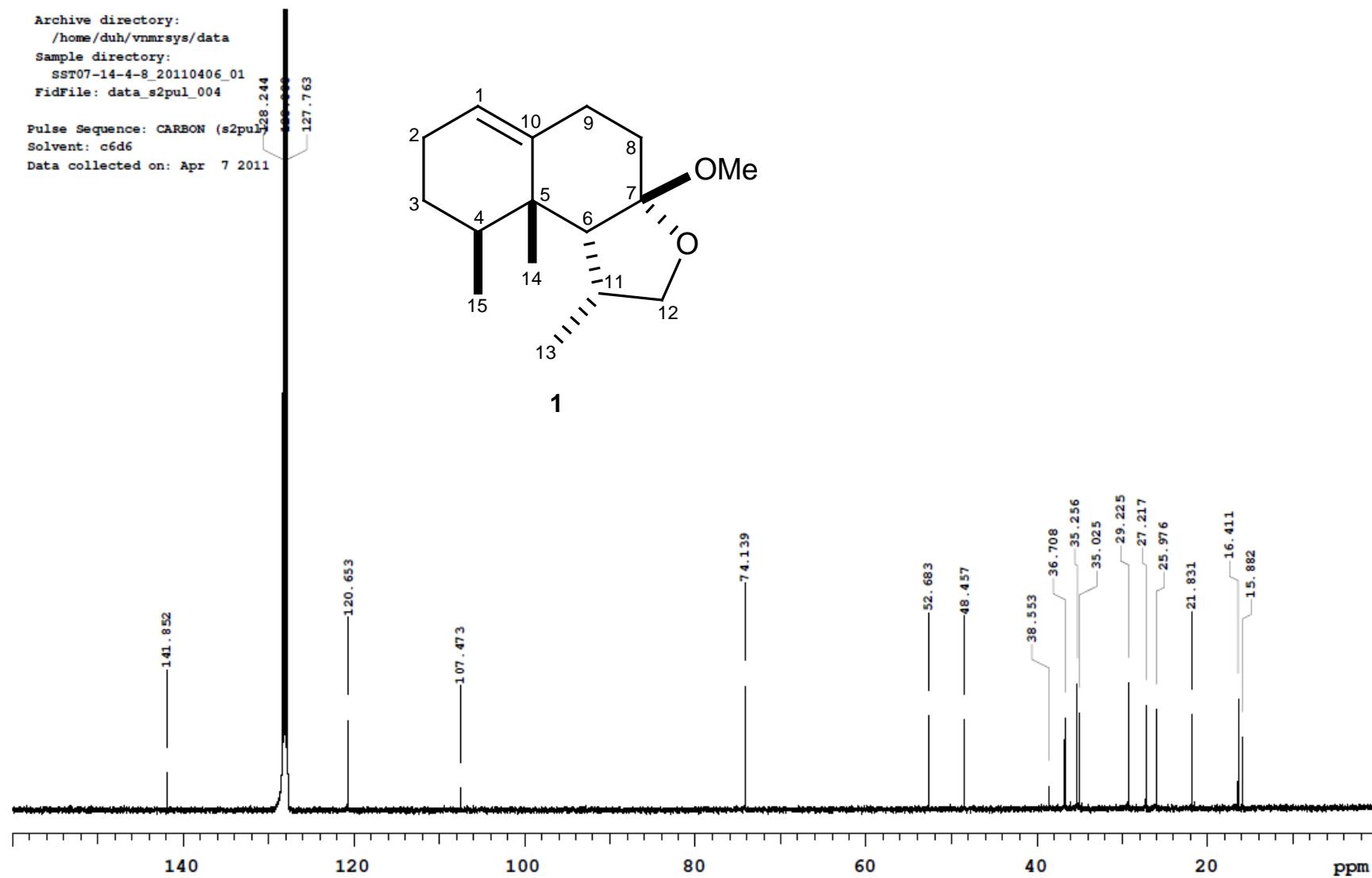
# Supplementary Materials

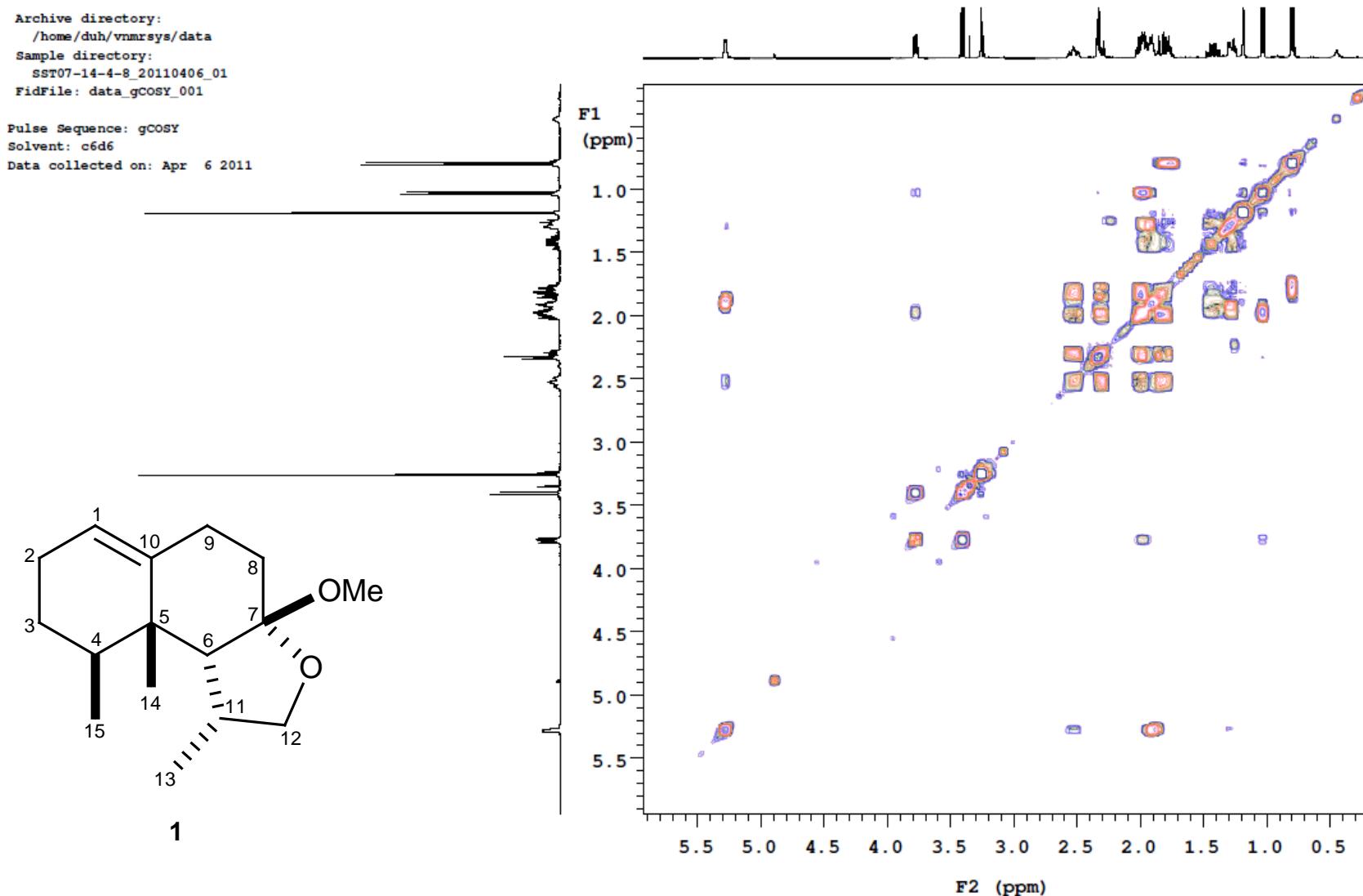
## Table of Contents

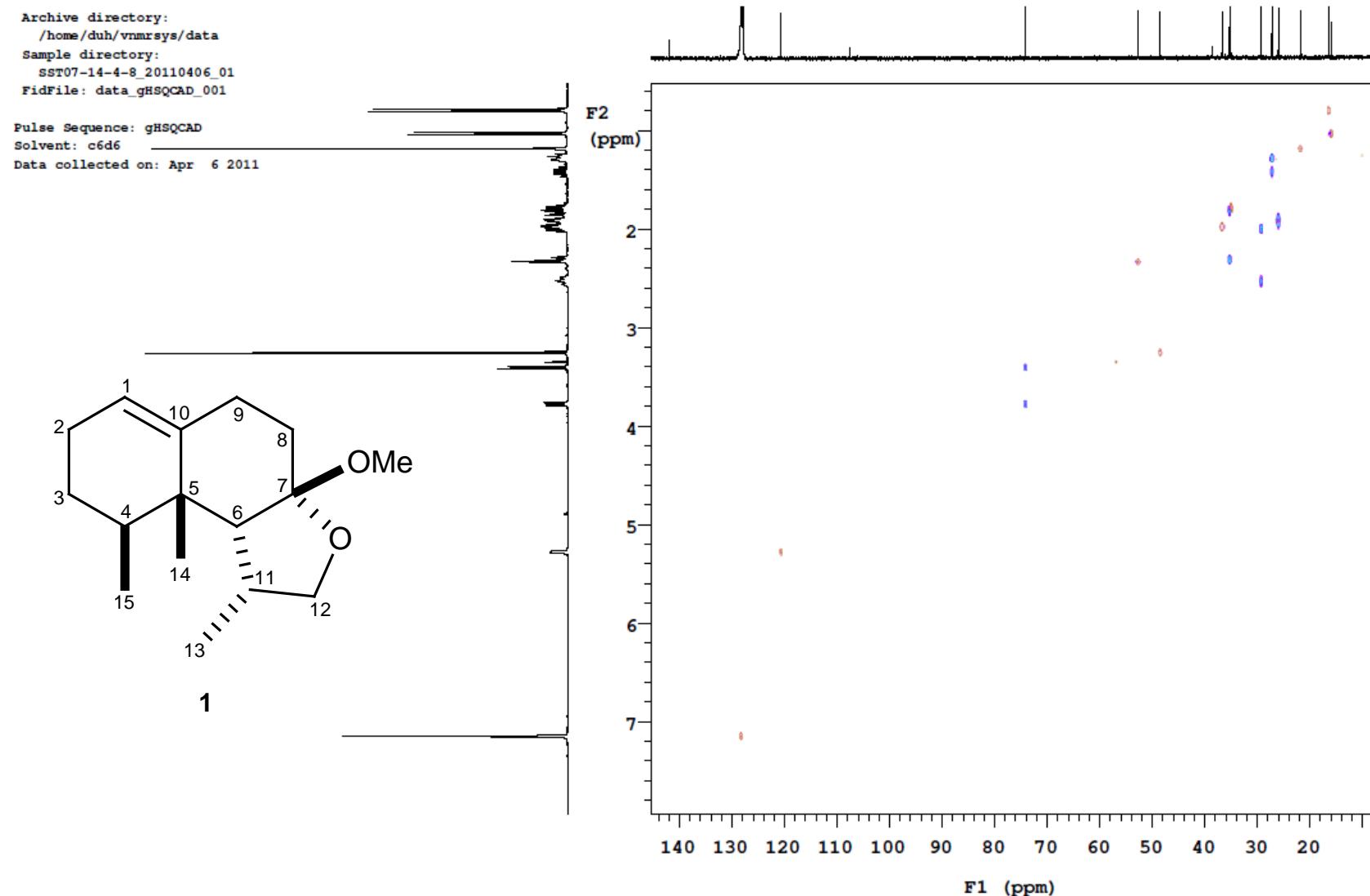
<b>Figure S1.</b> $^1\text{H}$ NMR spectrum (300 MHz) of parathyrsoidin A ( <b>1</b> ) in $\text{CDCl}_3$ .	2
<b>Figure S2.</b> $^1\text{H}$ NMR spectrum (400 MHz) of parathyrsoidin A ( <b>1</b> ) in $\text{C}_6\text{D}_6$ .	3
<b>Figure S3.</b> $^{13}\text{C}$ NMR spectrum (400 MHz) of parathyrsoidin A ( <b>1</b> ) in $\text{C}_6\text{D}_6$ .	4
<b>Figure S4.</b> COSY spectrum (400 MHz) of parathyrsoidin A ( <b>1</b> ) in $\text{C}_6\text{D}_6$ .	5
<b>Figure S5.</b> HSQC spectrum (400 MHz) of parathyrsoidin A ( <b>1</b> ) in $\text{C}_6\text{D}_6$ .	6
<b>Figure S6.</b> HMBC spectrum (400 MHz) of parathyrsoidin A ( <b>1</b> ) in $\text{C}_6\text{D}_6$ .	7
<b>Figure S7.</b> NOESY spectrum (400 MHz) of parathyrsoidin A ( <b>1</b> ) in $\text{C}_6\text{D}_6$ .	8
<b>Figure S8.</b> $^1\text{H}$ NMR spectrum (400 MHz) of parathyrsoidin B ( <b>2</b> ) in $\text{CDCl}_3$ .	9
<b>Figure S9.</b> $^1\text{H}$ NMR spectrum (400 MHz) of parathyrsoidin B ( <b>2</b> ) in $\text{C}_6\text{D}_6$ .	10
<b>Figure S10.</b> $^{13}\text{C}$ NMR spectrum (400 MHz) of parathyrsoidin B ( <b>2</b> ) in $\text{C}_6\text{D}_6$ .	11
<b>Figure S11.</b> COSY spectrum (400 MHz) of parathyrsoidin B ( <b>2</b> ) in $\text{C}_6\text{D}_6$ .	12
<b>Figure S12.</b> HSQC spectrum (400 MHz) of parathyrsoidin B ( <b>2</b> ) in $\text{C}_6\text{D}_6$ .	13
<b>Figure S13.</b> HMBC spectrum (400 MHz) of parathyrsoidin B ( <b>2</b> ) in $\text{C}_6\text{D}_6$ .	14
<b>Figure S14.</b> NOESY spectrum (400 MHz) of parathyrsoidin B ( <b>2</b> ) in $\text{C}_6\text{D}_6$ .	15
<b>Figure S15.</b> $^1\text{H}$ NMR spectrum (400 MHz) of parathyrsoidin C ( <b>3</b> ) in $\text{CDCl}_3$ .	16
<b>Figure S16.</b> $^1\text{H}$ NMR spectrum (400 MHz) of parathyrsoidin C ( <b>3</b> ) in $\text{C}_6\text{D}_6$ .	17
<b>Figure S17.</b> $^{13}\text{C}$ NMR spectrum (400 MHz) of parathyrsoidin C ( <b>3</b> ) in $\text{C}_6\text{D}_6$ .	18
<b>Figure S18.</b> COSY spectrum (400 MHz) of parathyrsoidin C ( <b>3</b> ) in $\text{C}_6\text{D}_6$ .	19
<b>Figure S19.</b> HSQC spectrum (400 MHz) of parathyrsoidin C ( <b>3</b> ) in $\text{C}_6\text{D}_6$ .	20
<b>Figure S20.</b> HMBC spectrum (400 MHz) of parathyrsoidin C ( <b>3</b> ) in $\text{C}_6\text{D}_6$ .	21
<b>Figure S21.</b> NOESY spectrum (400 MHz) of parathyrsoidin C ( <b>3</b> ) in $\text{C}_6\text{D}_6$ .	22
<b>Figure S22.</b> $^1\text{H}$ NMR spectrum (400 MHz) of parathyrsoidin D ( <b>4</b> ) in $\text{C}_6\text{D}_6$ .	23
<b>Figure S23.</b> $^{13}\text{C}$ NMR spectrum (400 MHz) of parathyrsoidin D ( <b>4</b> ) in $\text{C}_6\text{D}_6$ .	24
<b>Figure S24.</b> COSY spectrum (400 MHz) of parathyrsoidin D ( <b>4</b> ) in $\text{C}_6\text{D}_6$ .	25
<b>Figure S25.</b> HSQC spectrum (400 MHz) of parathyrsoidin D ( <b>4</b> ) in $\text{C}_6\text{D}_6$ .	26
<b>Figure S26.</b> HMBC spectrum (400 MHz) of parathyrsoidin D ( <b>4</b> ) in $\text{C}_6\text{D}_6$ .	27
<b>Figure S27.</b> NOESY spectrum (400 MHz) of parathyrsoidin D ( <b>4</b> ) in $\text{C}_6\text{D}_6$ .	28

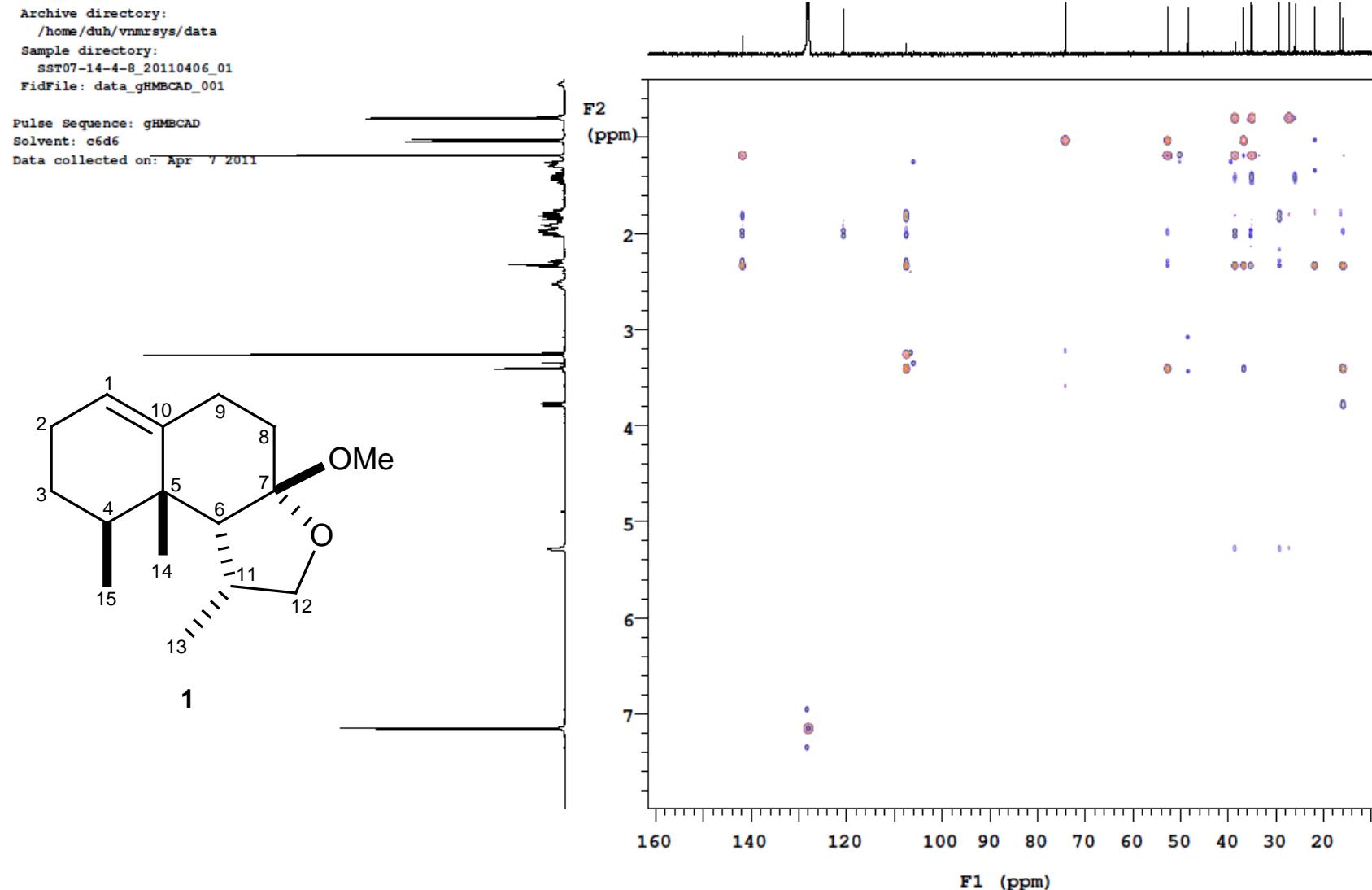
**Figure S1.**  $^1\text{H}$  NMR spectrum (300 MHz) of parathyrsoidin A (**1**) in  $\text{CDCl}_3$ .SST07-14-4-8 in  $\text{CDCl}_3$ 

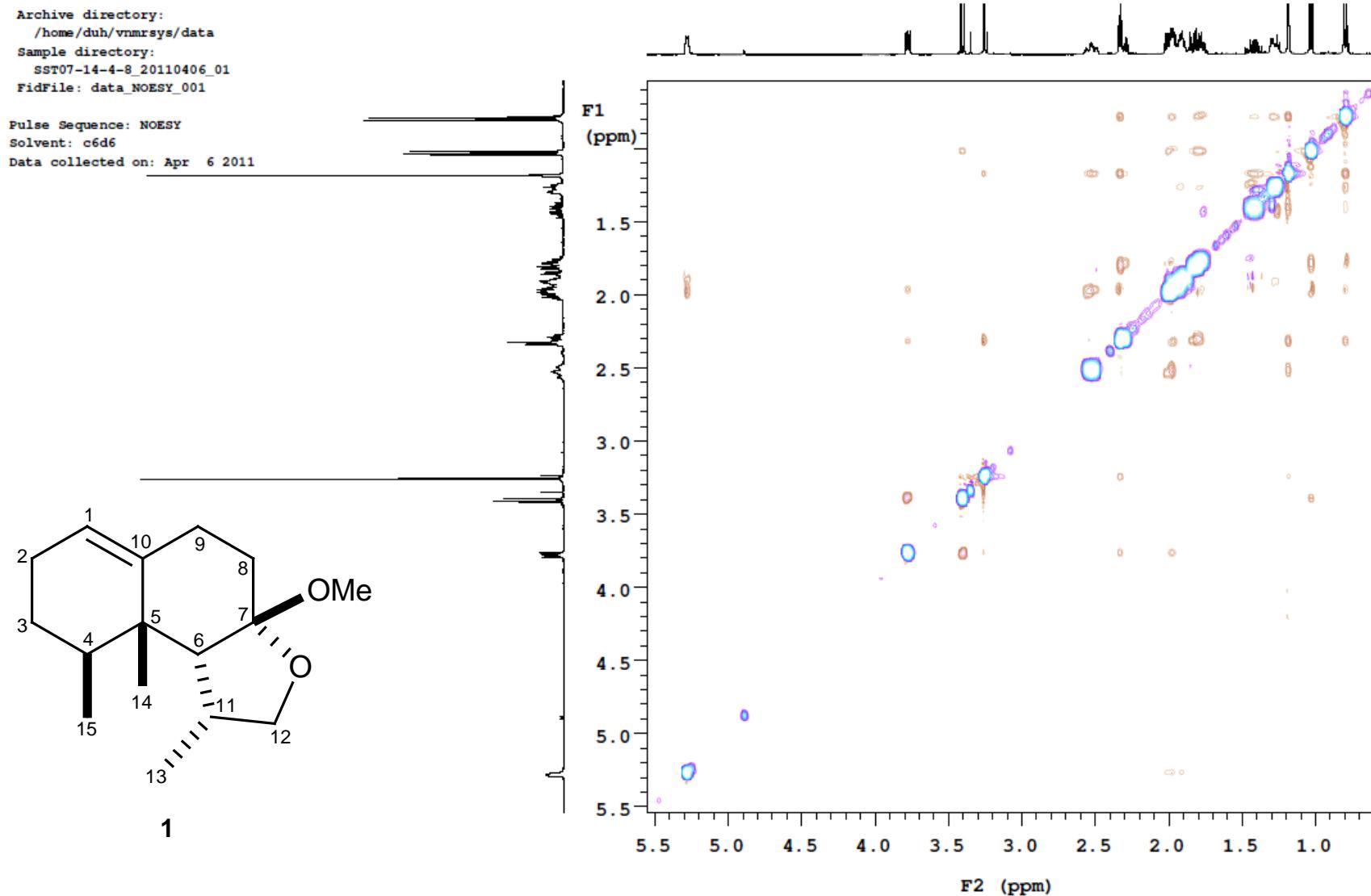
**Figure S2.**  $^1\text{H}$  NMR spectrum (400 MHz) of parathyrsoidin A (**1**) in  $\text{C}_6\text{D}_6$ .

**Figure S3.**  $^{13}\text{C}$  NMR spectrum (400 MHz) of parathyrsoidin A (**1**) in  $\text{C}_6\text{D}_6$ .

**Figure S4.** COSY spectrum (400 MHz) of parathyrsoidin A (**1**) in C<sub>6</sub>D<sub>6</sub>.

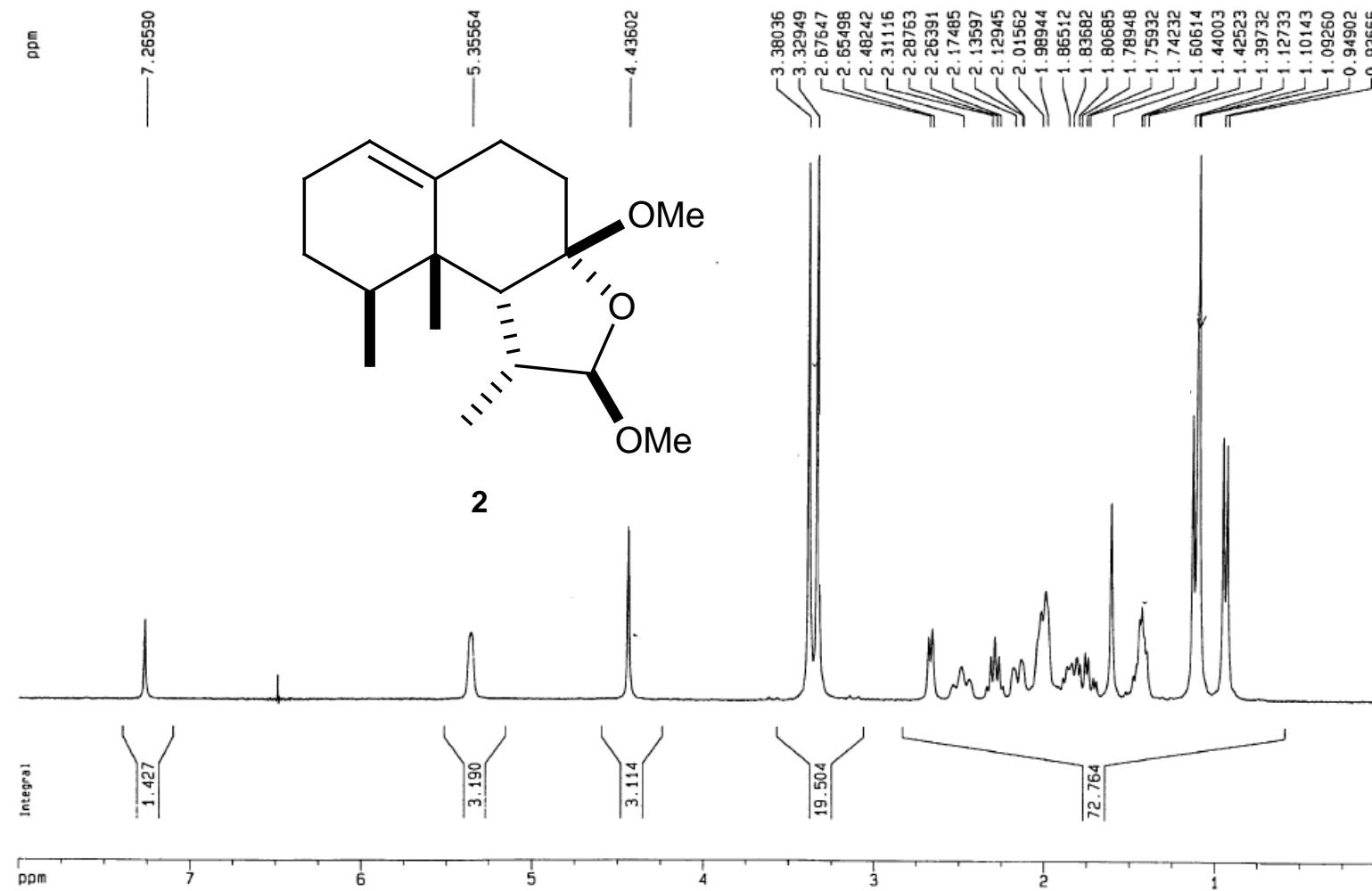
**Figure S5.** HSQC spectrum (400 MHz) of parathyrsoidin A (**1**) in C<sub>6</sub>D<sub>6</sub>.

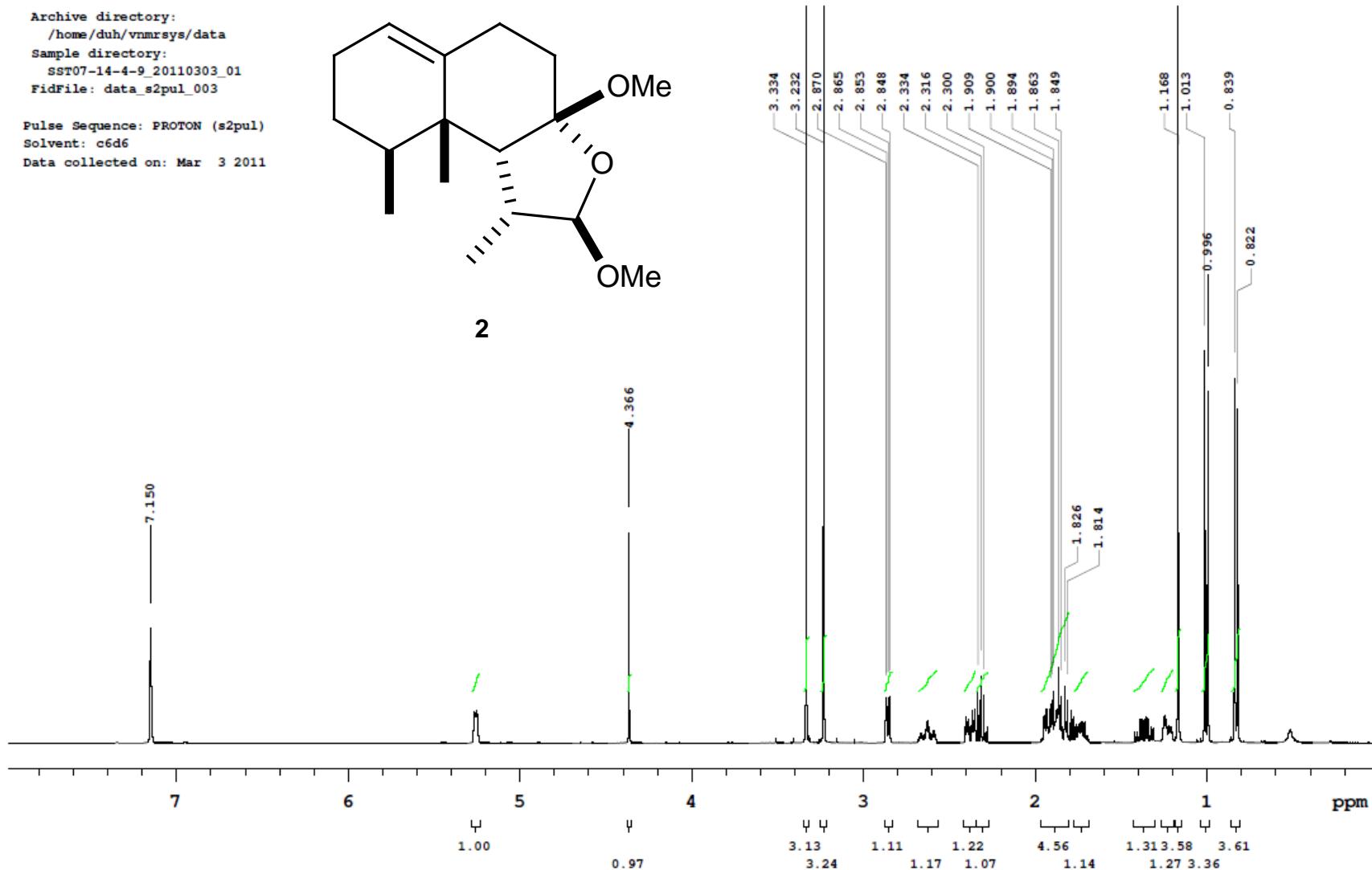
**Figure S6.** HMBC spectrum (400 MHz) of parathyrsoidin A (**1**) in C<sub>6</sub>D<sub>6</sub>.

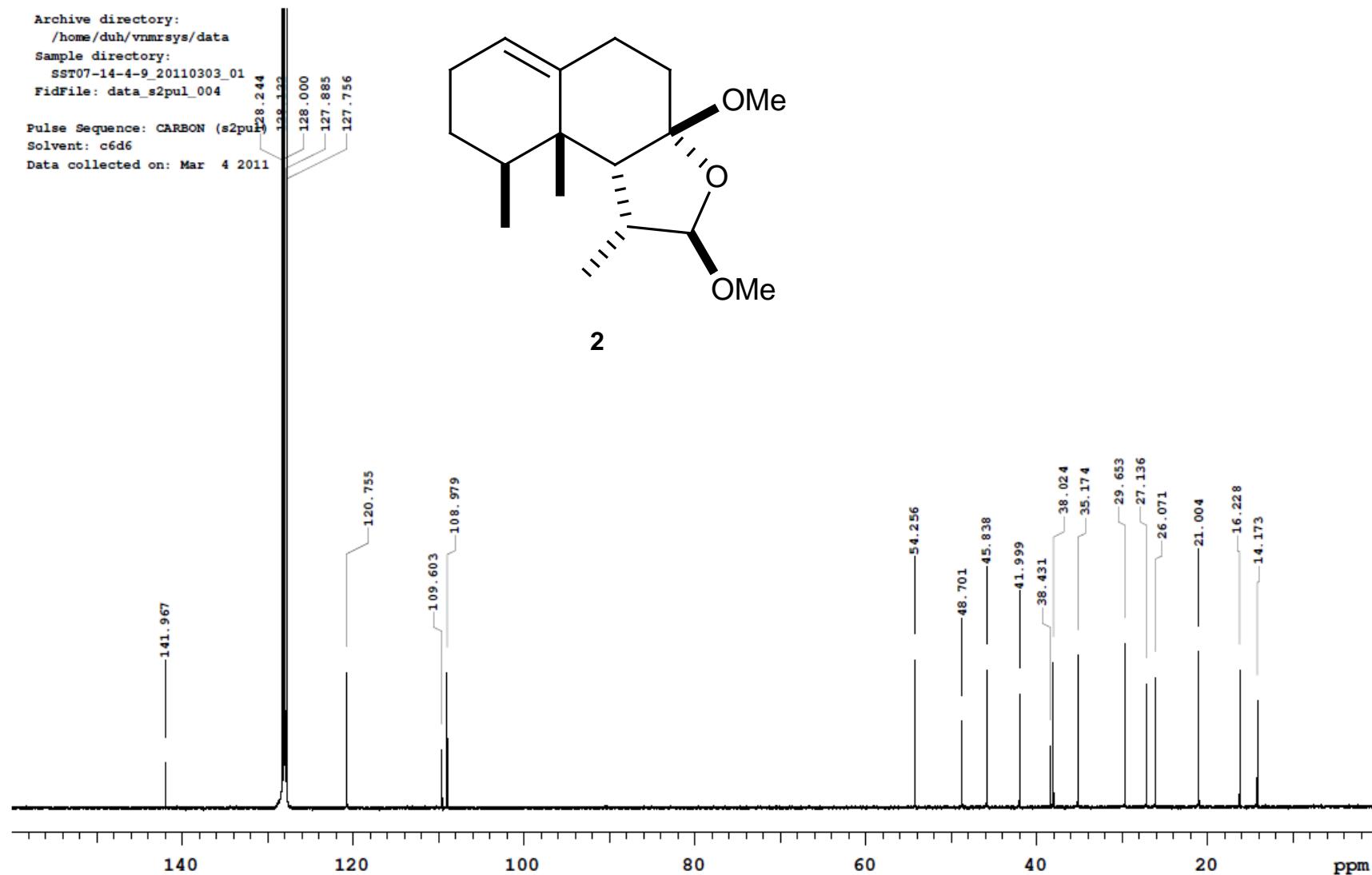
**Figure S7.** NOESY spectrum (400 MHz) of parathyrsoidin A (**1**) in C<sub>6</sub>D<sub>6</sub>.

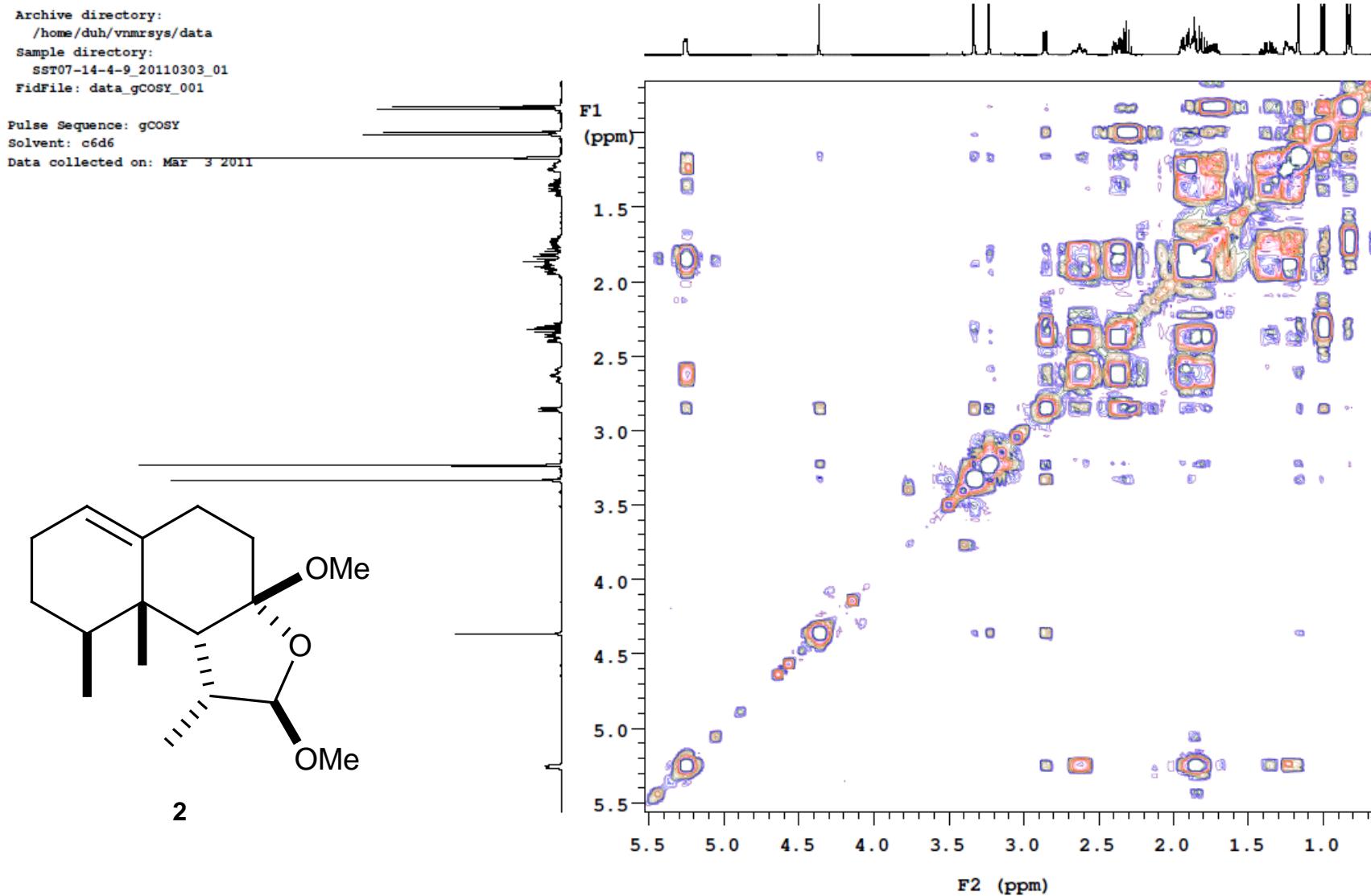
**Figure S8.**  $^1\text{H}$  NMR spectrum (300 MHz) of parathyrsoidin B (**2**) in  $\text{CDCl}_3$ .

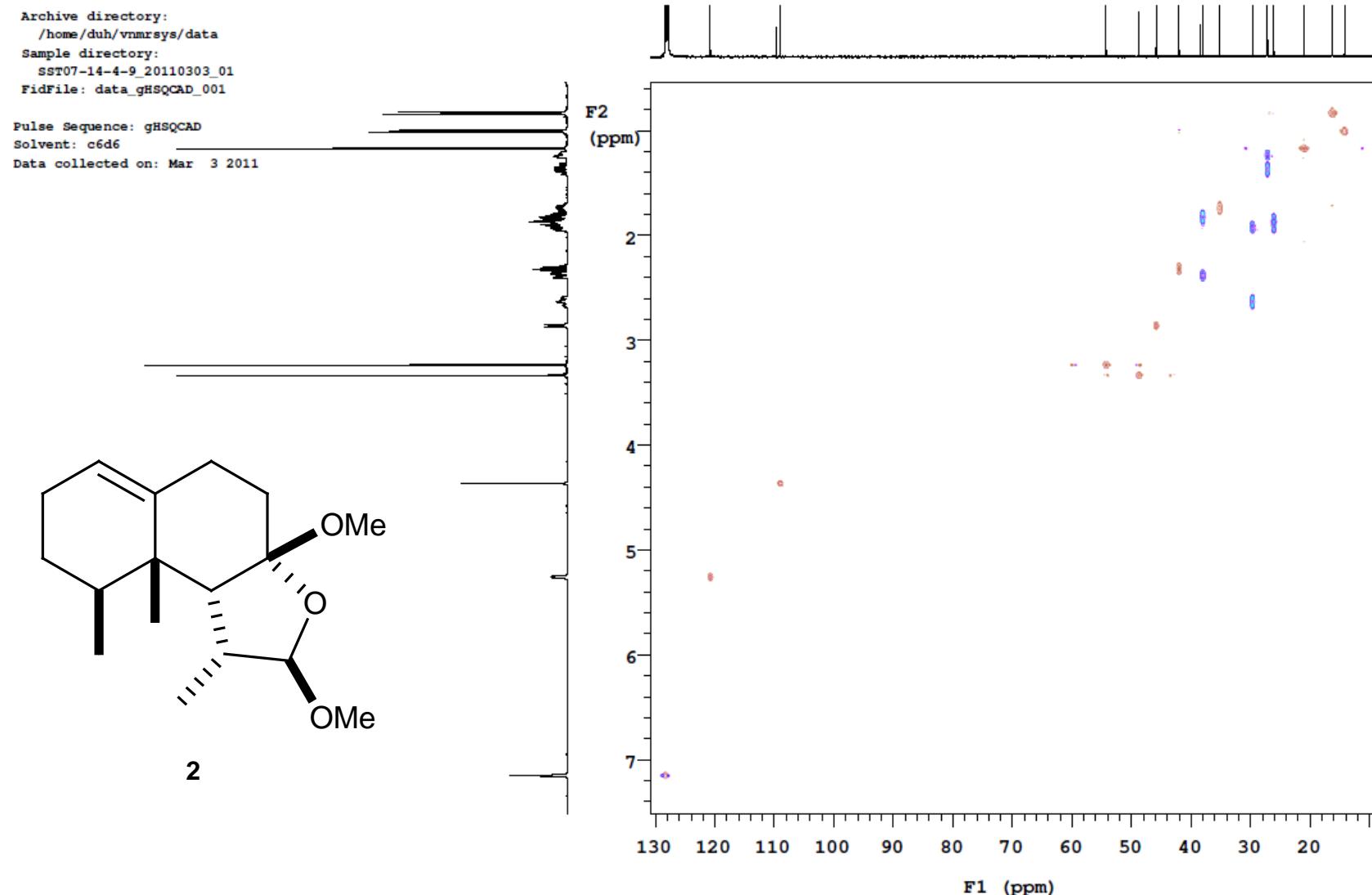
SST07-14-4-9 in  $\text{CDCl}_3$

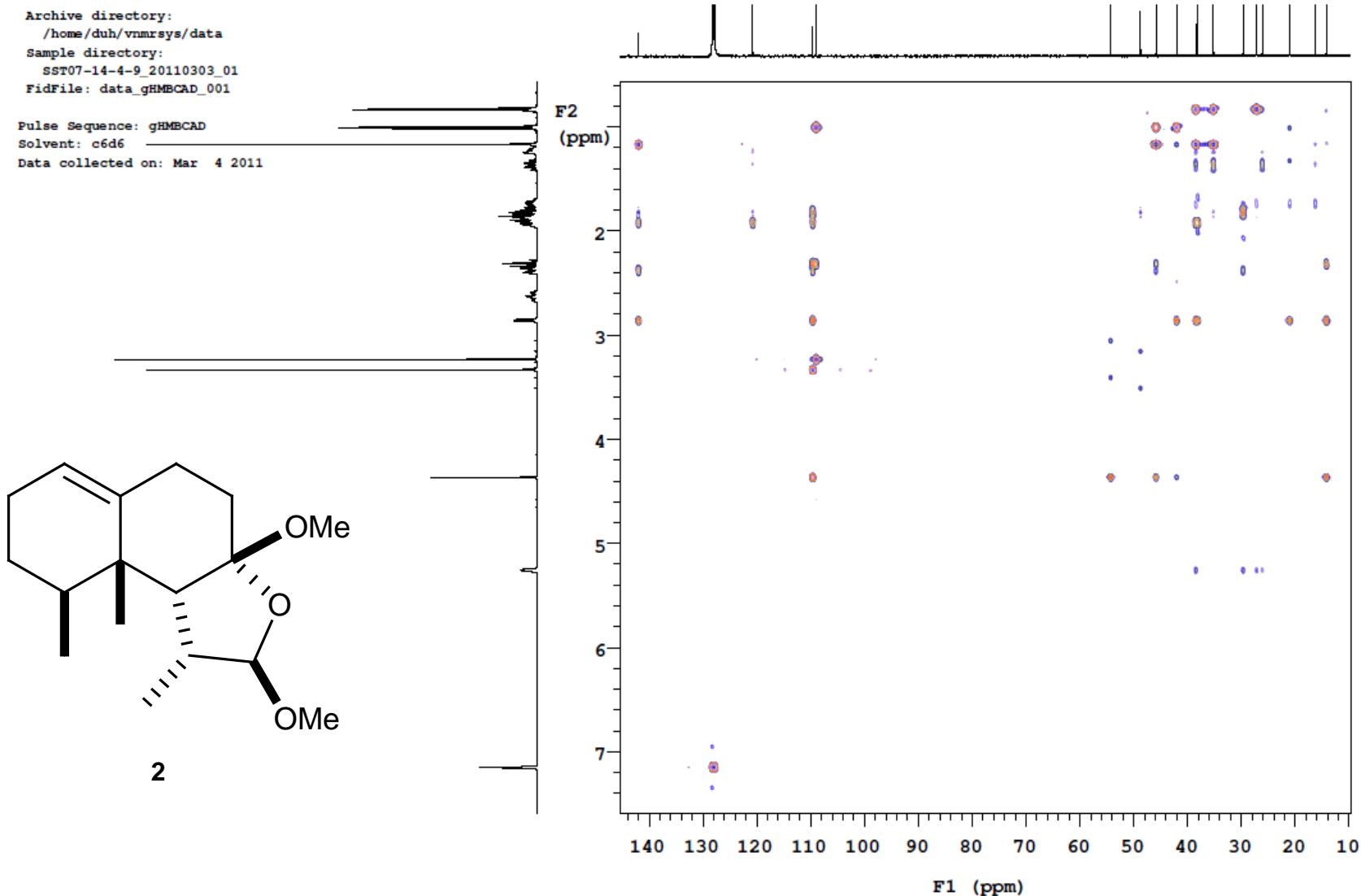


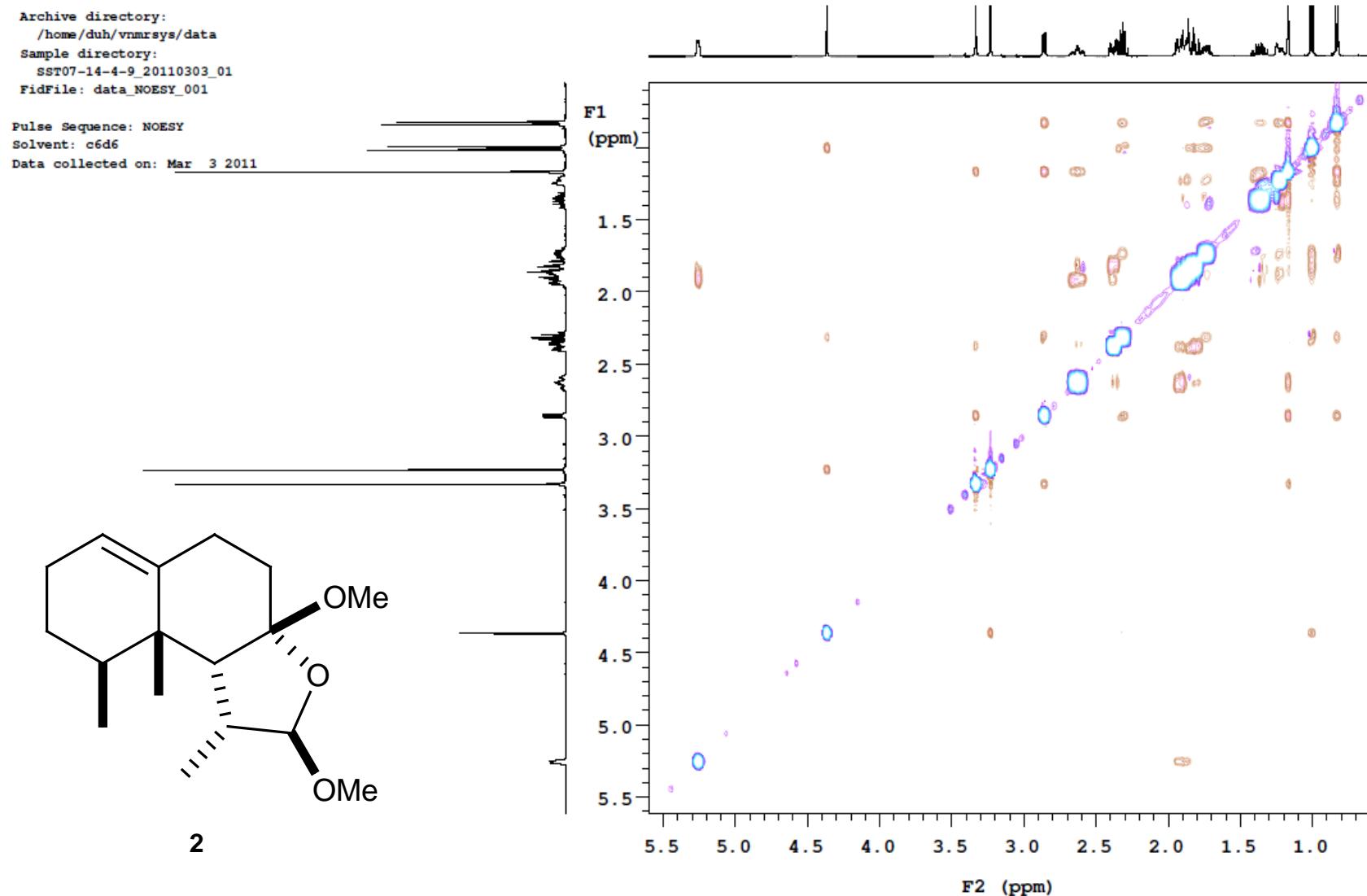
**Figure S9.**  $^1\text{H}$  NMR spectrum (400 MHz) of parathyrsoidin B (**2**) in  $\text{C}_6\text{D}_6$ .

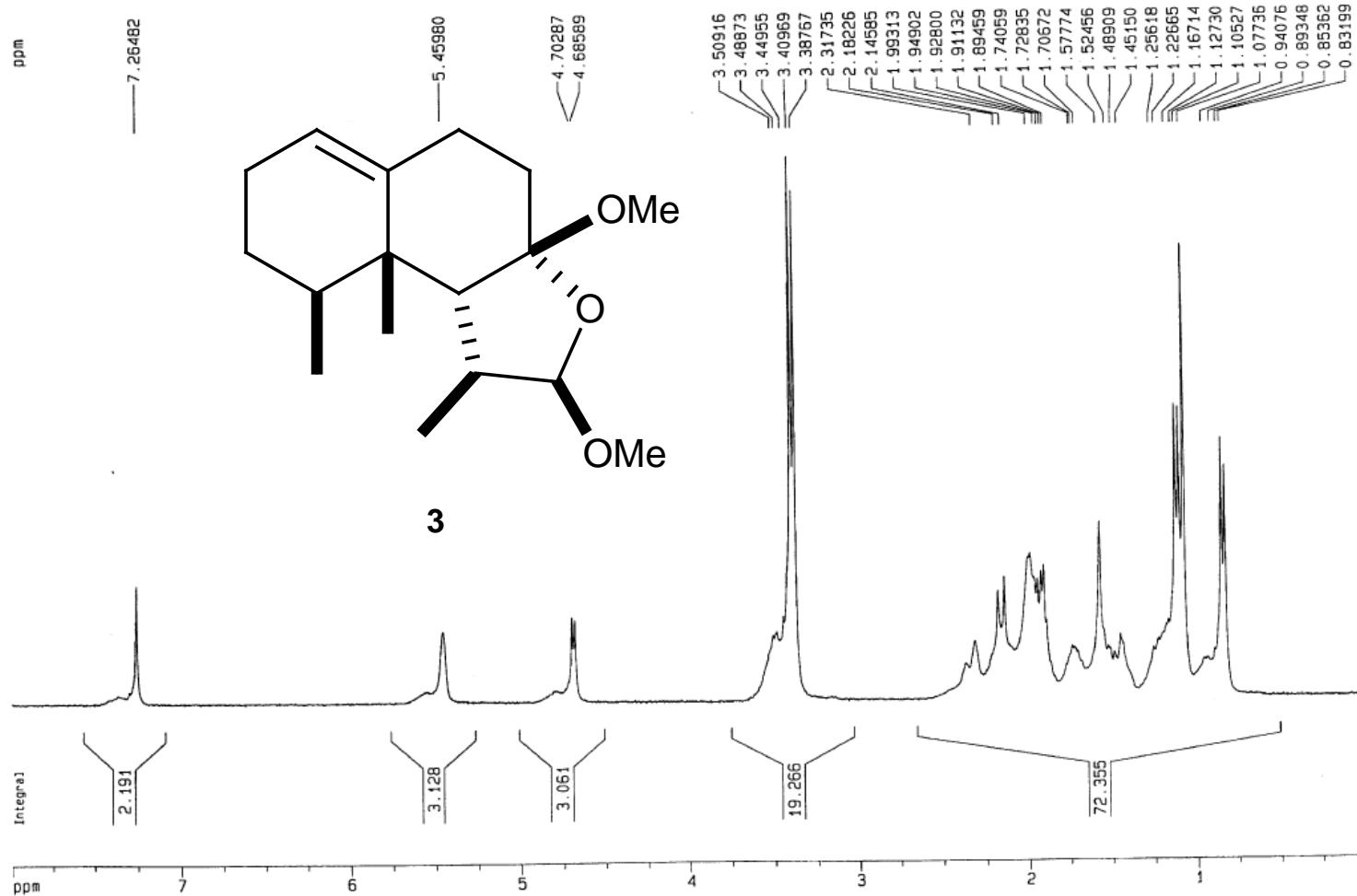
**Figure S10.**  $^{13}\text{C}$  NMR spectrum (400 MHz) of parathyrsoidin B (**2**) in  $\text{C}_6\text{D}_6$ .

**Figure S11.** COSY spectrum (400 MHz) of parathyrsoidin B (**2**) in C<sub>6</sub>D<sub>6</sub>.

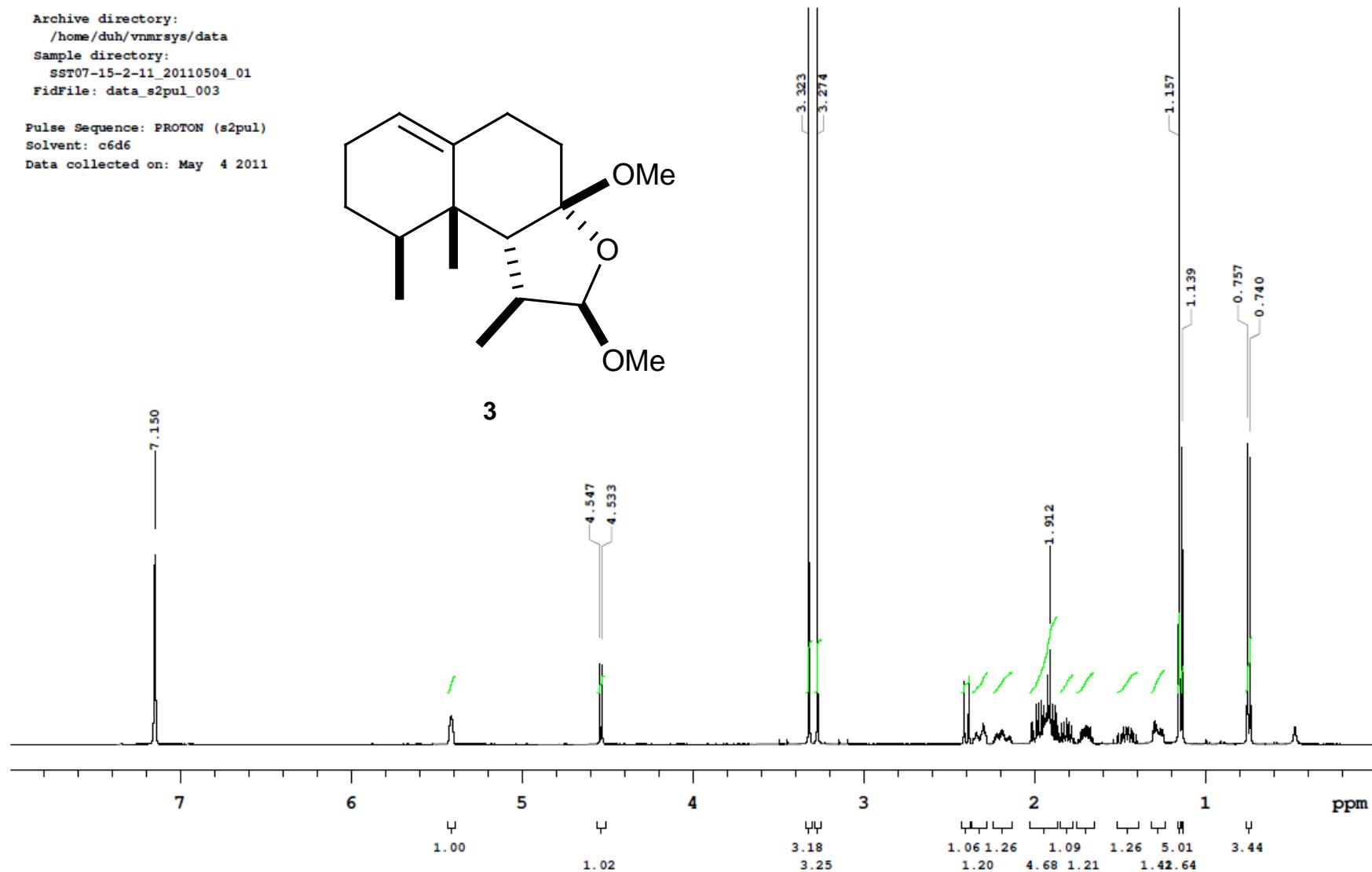
**Figure S12.** HSQC spectrum (400 MHz) of parathyrsoidin B (**2**) in C<sub>6</sub>D<sub>6</sub>.

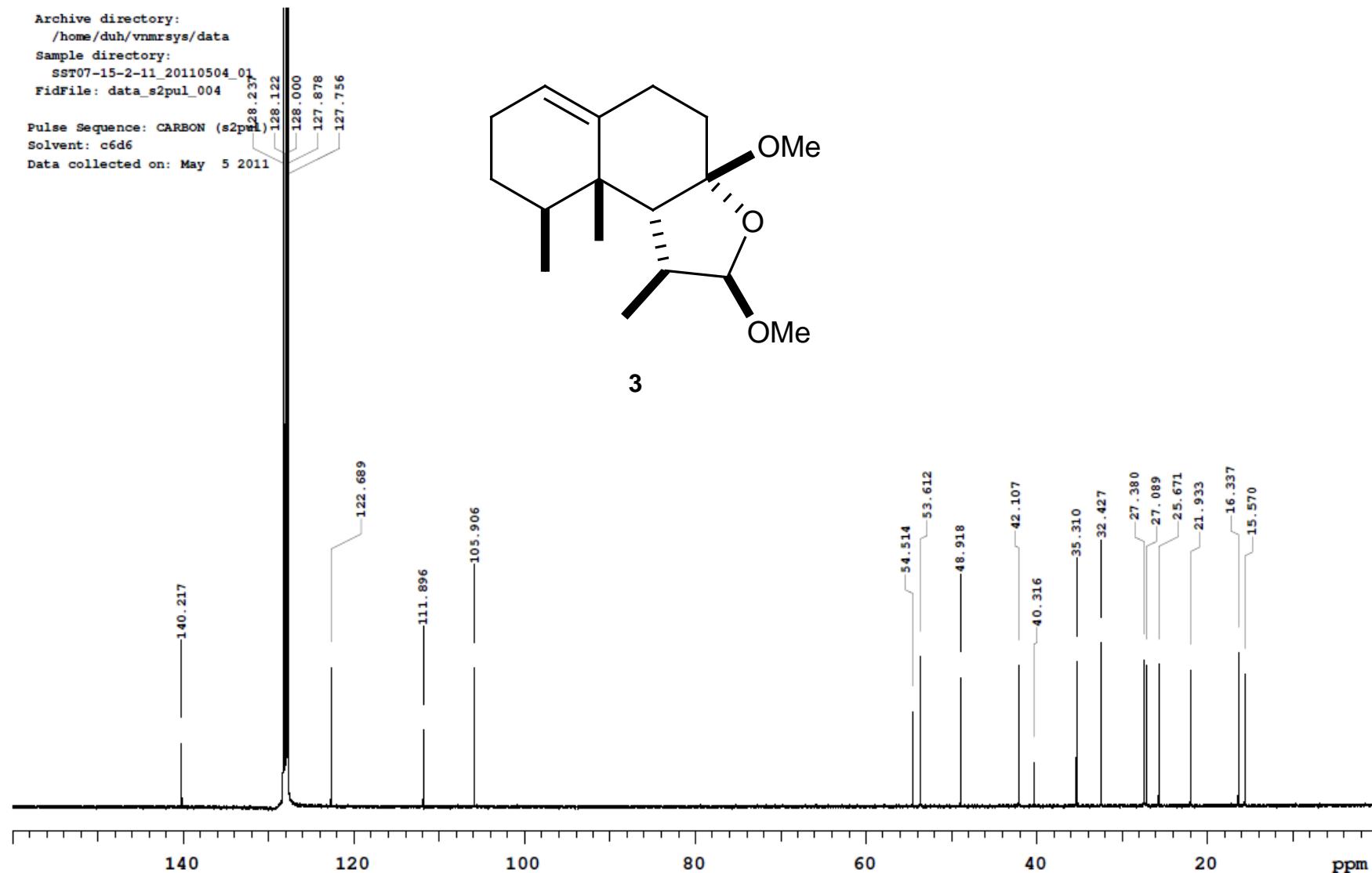
**Figure S13.** HMBC spectrum (400 MHz) of parathyrsoidin B (**2**) in C<sub>6</sub>D<sub>6</sub>.

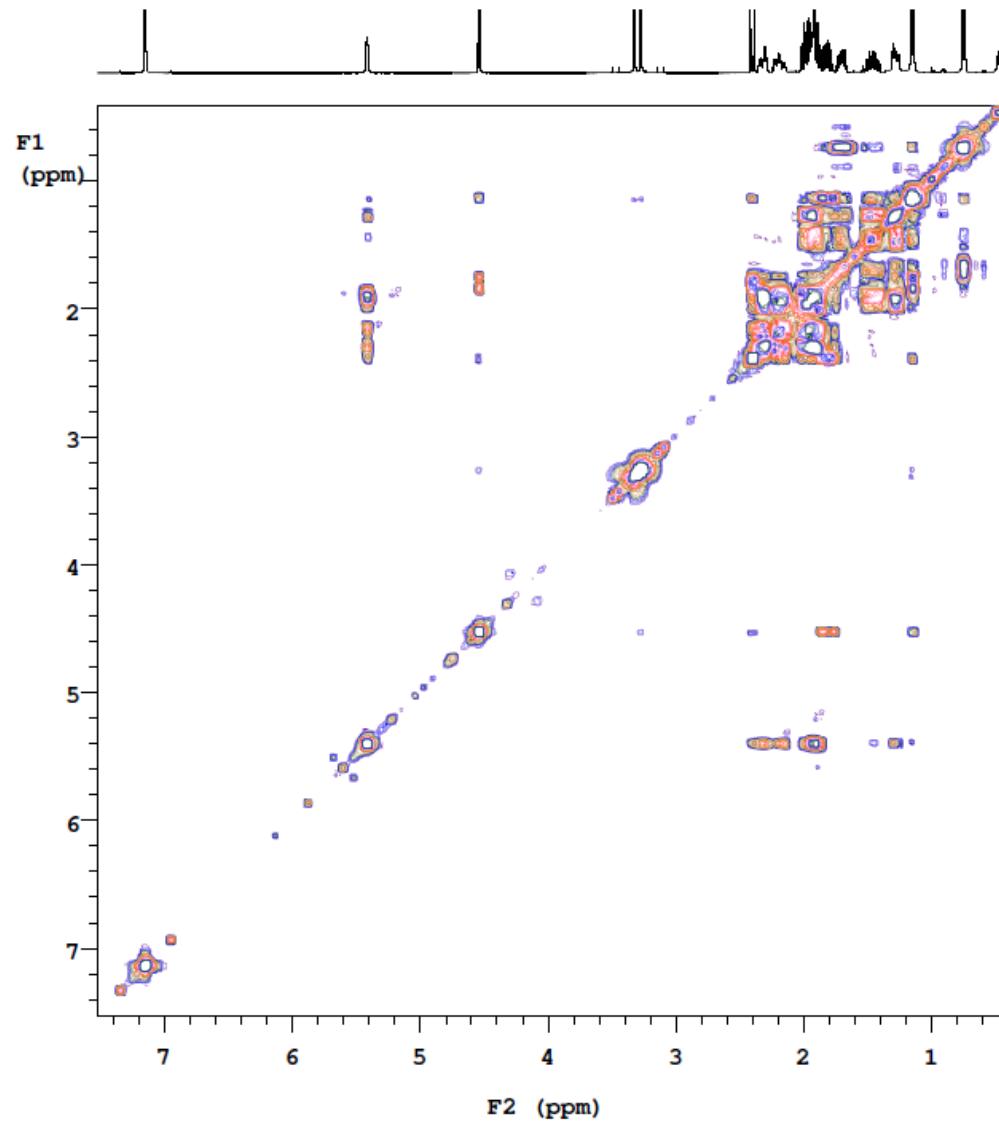
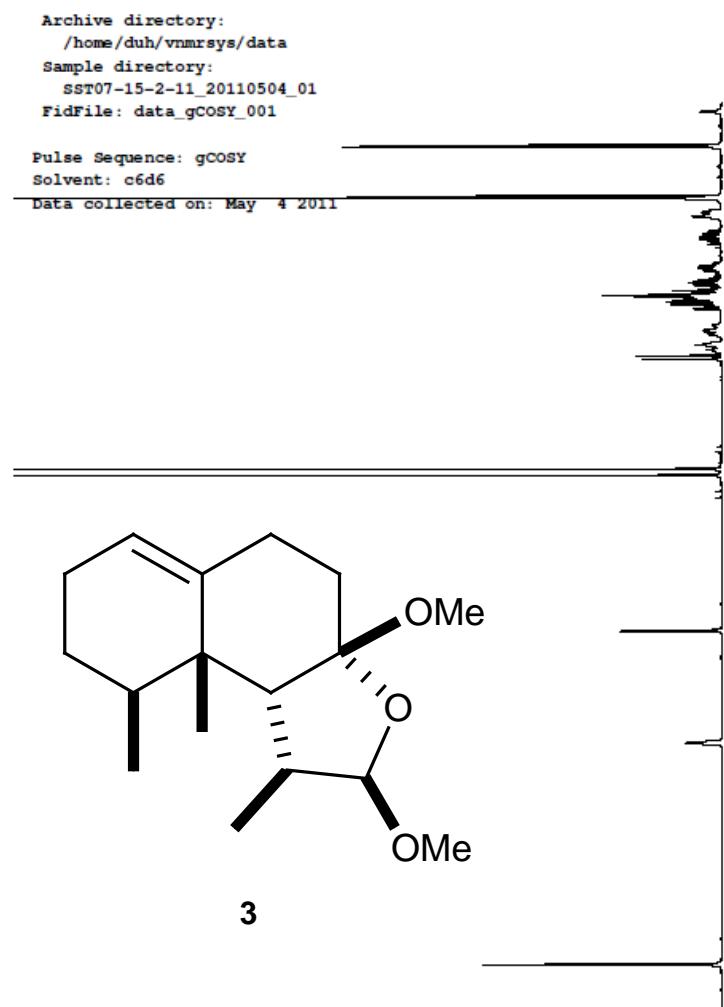
**Figure S14.** NOESY spectrum (400 MHz) of parathyrsoidin B (2) in C<sub>6</sub>D<sub>6</sub>.

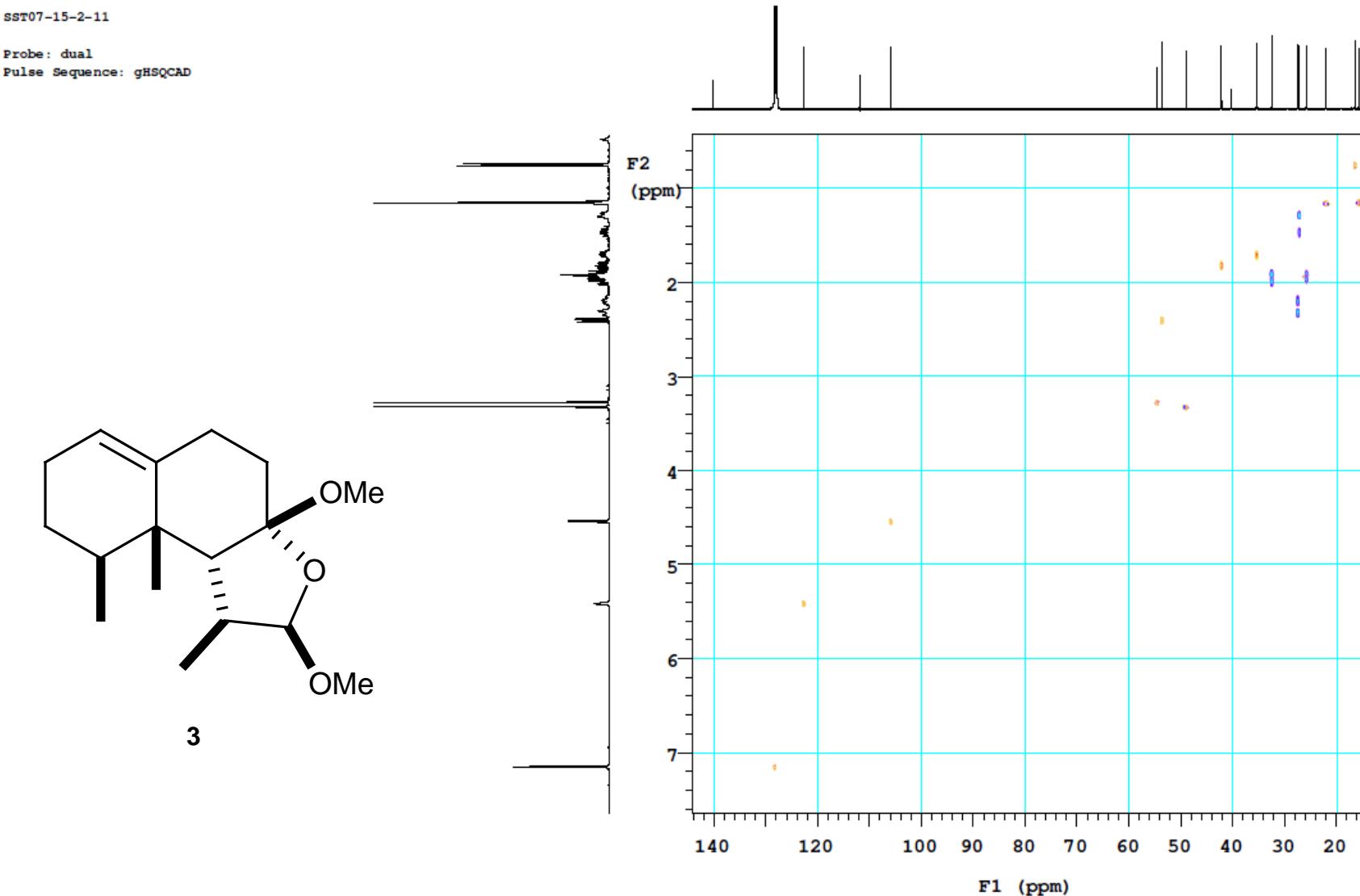
**Figure S15.**  $^1\text{H}$  NMR spectrum (300 MHz) of parathyrsoidin C (**3**) in  $\text{CDCl}_3$ .

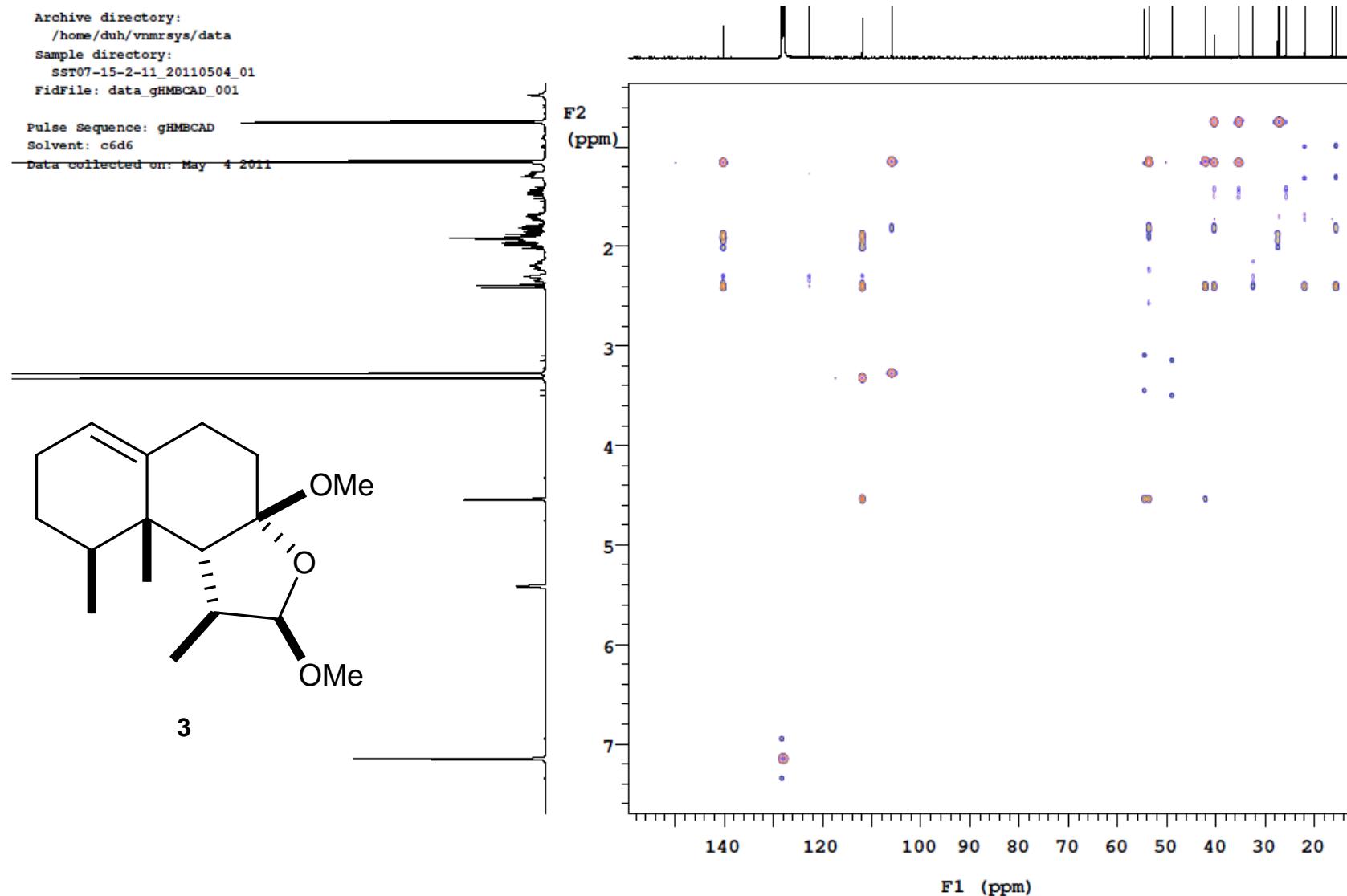
**Figure S16.**  $^1\text{H}$  NMR spectrum (400 MHz) of parathyrsoidin C (**3**) in  $\text{C}_6\text{D}_6$ .

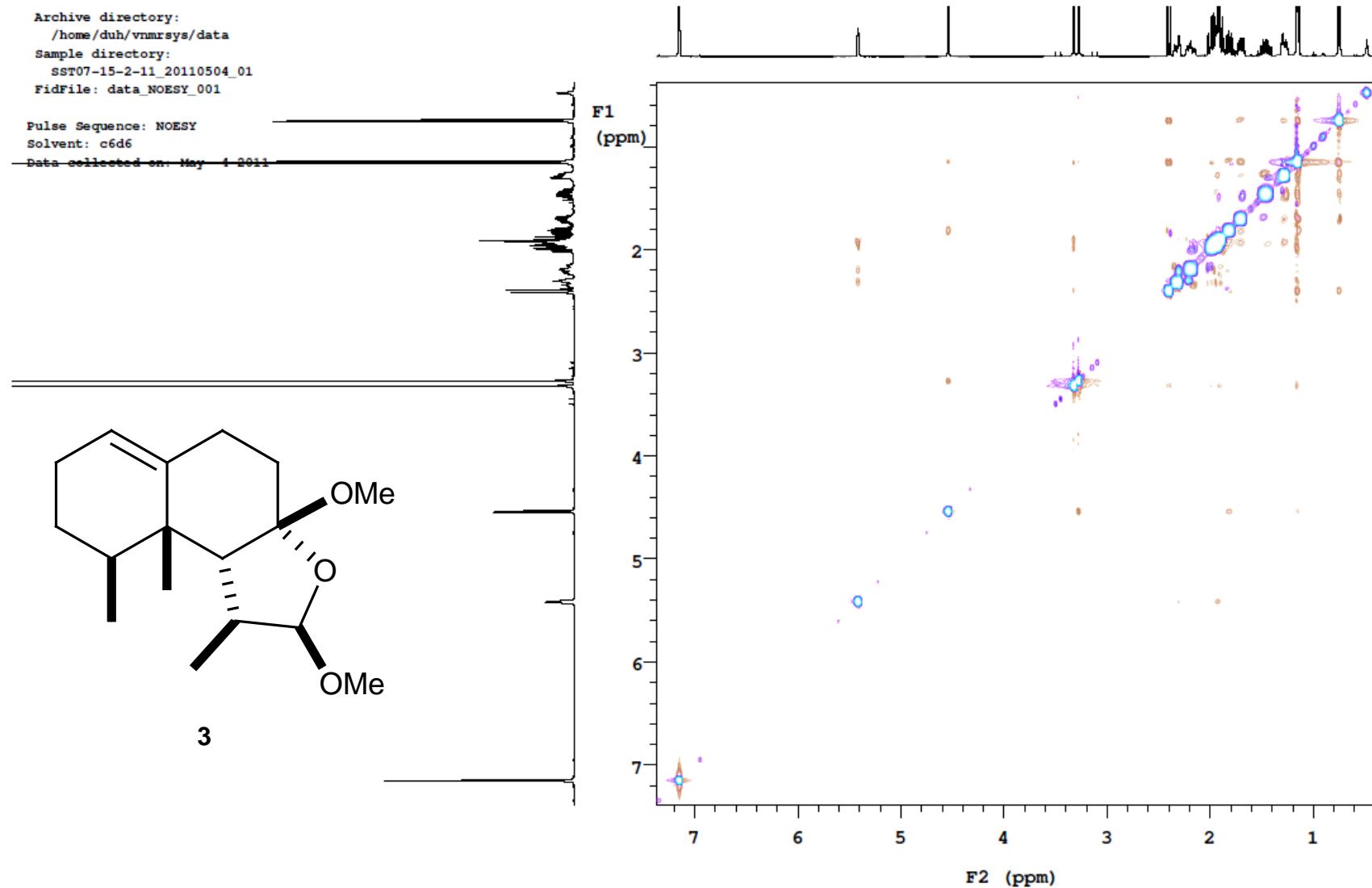


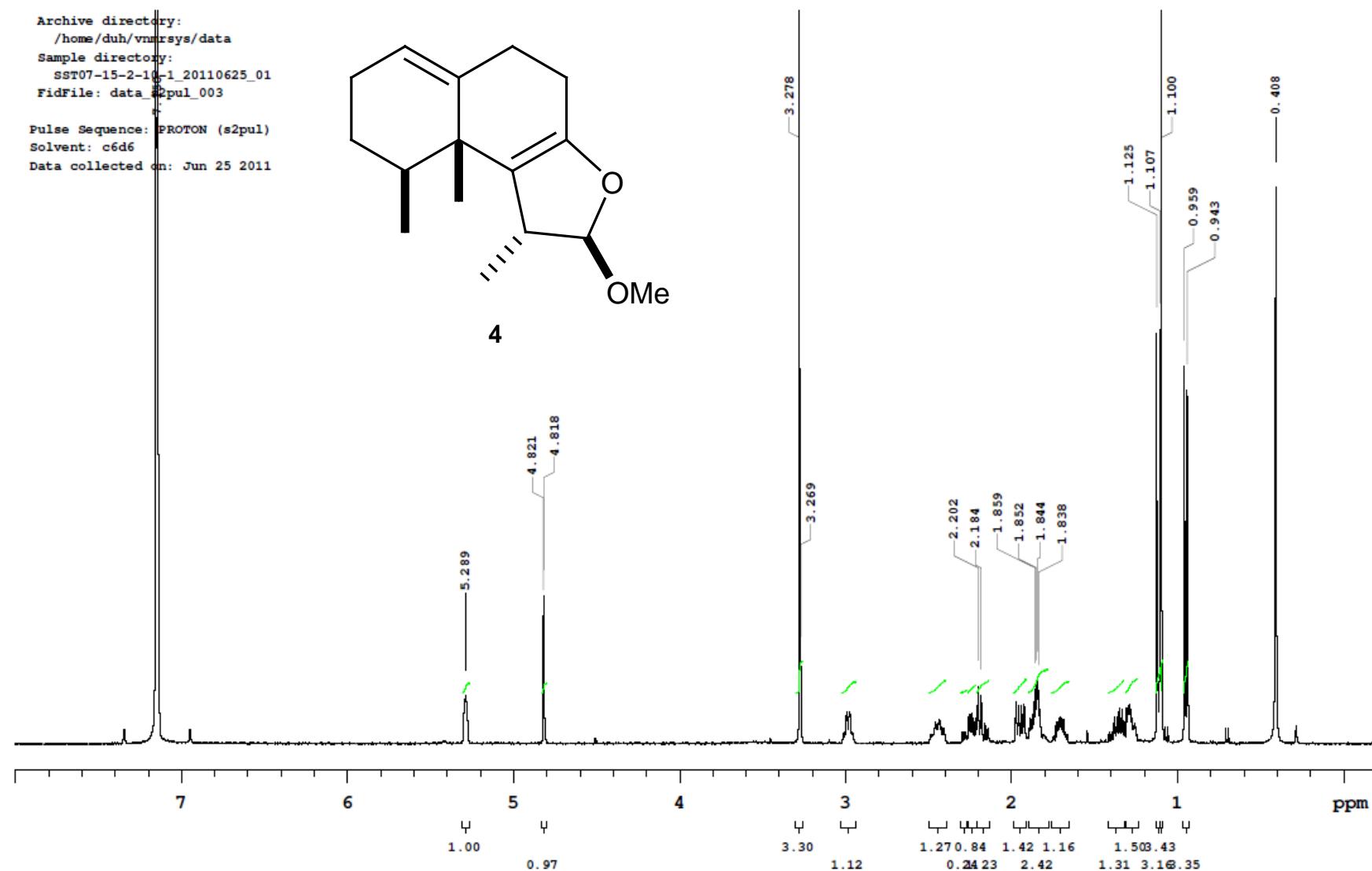
**Figure S17.**  $^{13}\text{C}$  NMR spectrum (400 MHz) of parathyrsoidin C (**3**) in  $\text{C}_6\text{D}_6$ .

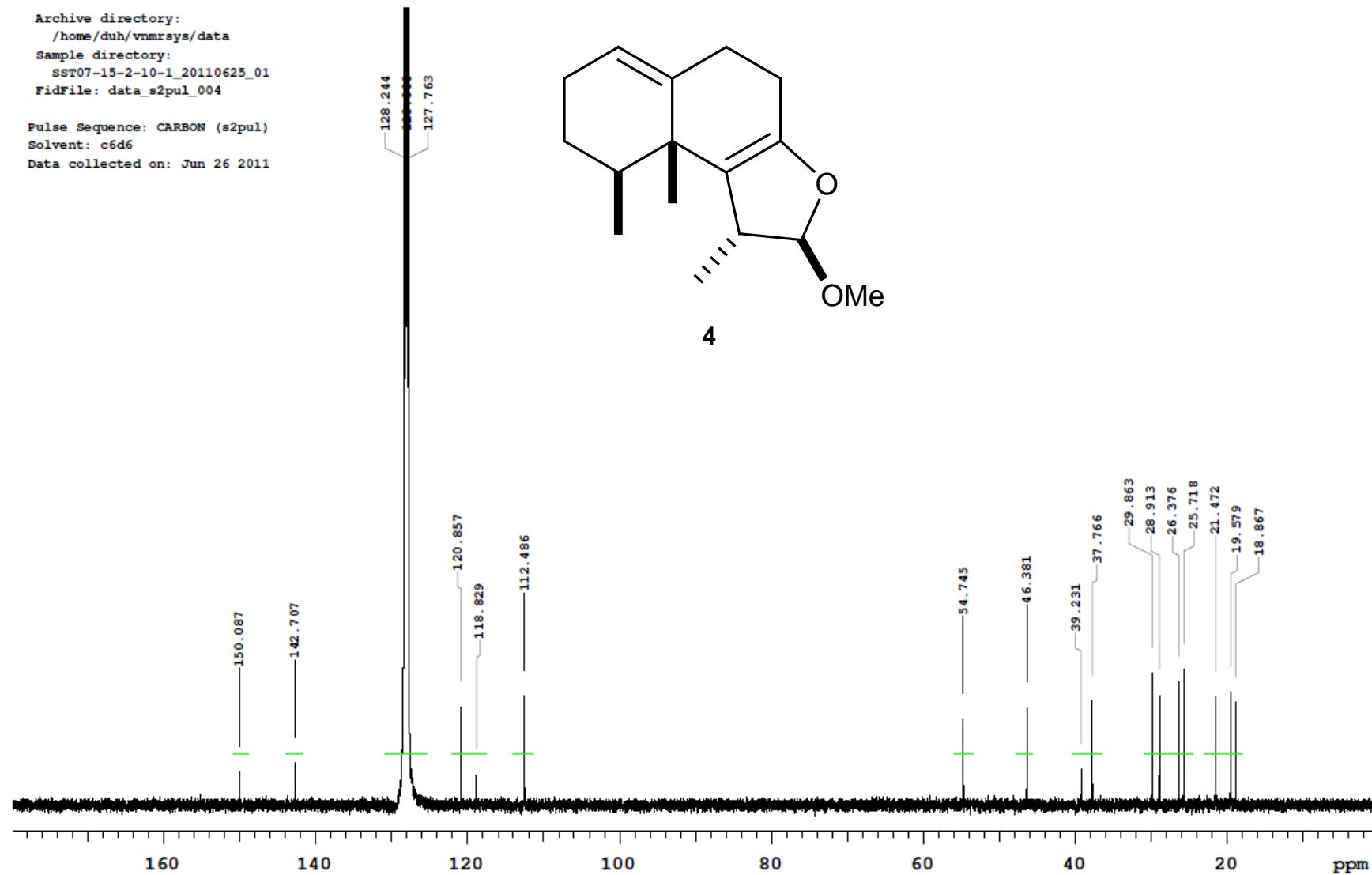
**Figure S18.** COSY spectrum (400 MHz) of parathyrsoidin C (**3**) in C<sub>6</sub>D<sub>6</sub>.

**Figure S19.** HSQC spectrum (400 MHz) of parathyrsoidin C (**3**) in C<sub>6</sub>D<sub>6</sub>.

**Figure S20.** HMBC spectrum (400 MHz) of parathyrsoidin C (**3**) in C<sub>6</sub>D<sub>6</sub>.

**Figure S21.** NOESY spectrum (400 MHz) of parathyrsoidin C (**3**) in C<sub>6</sub>D<sub>6</sub>.

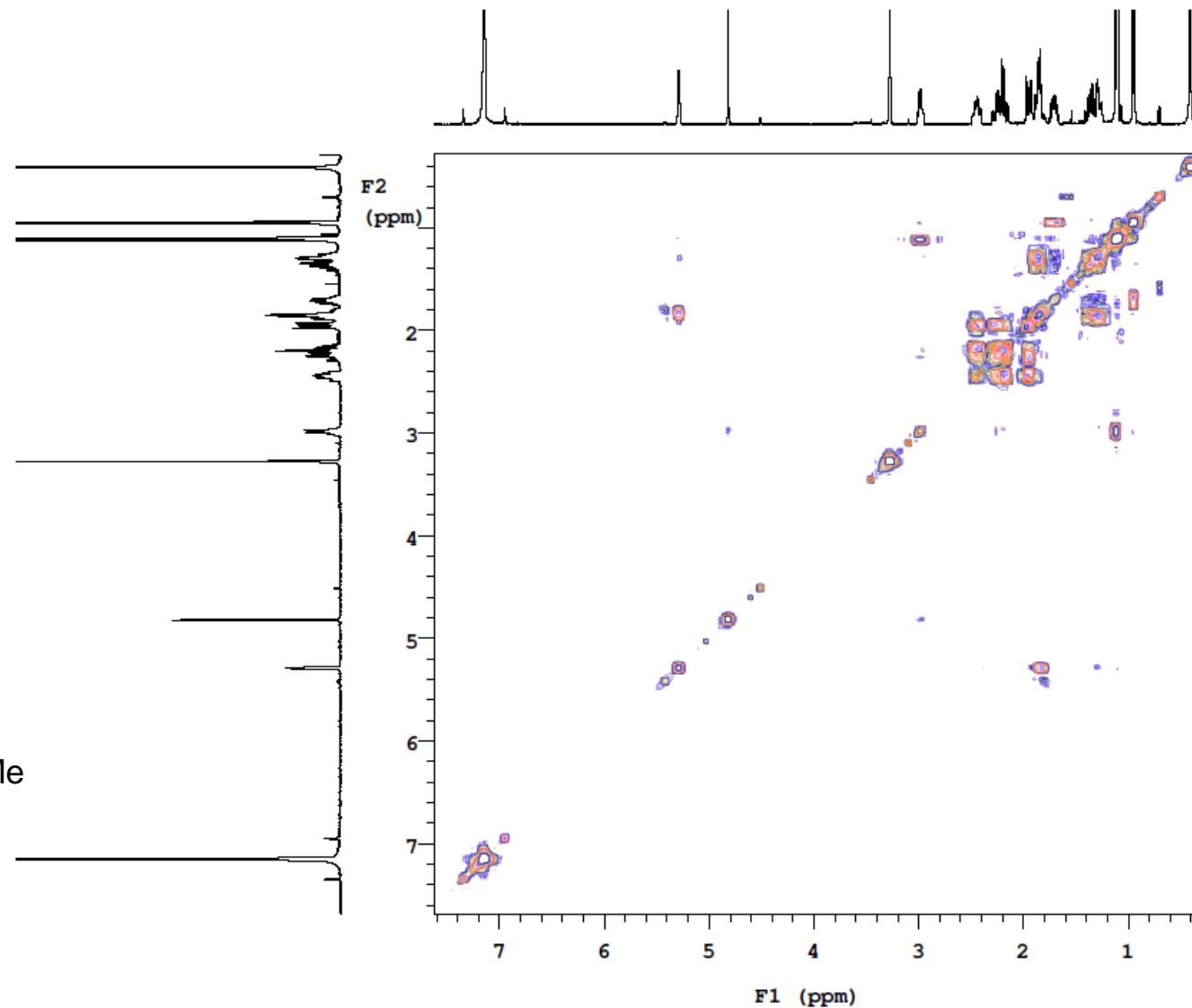
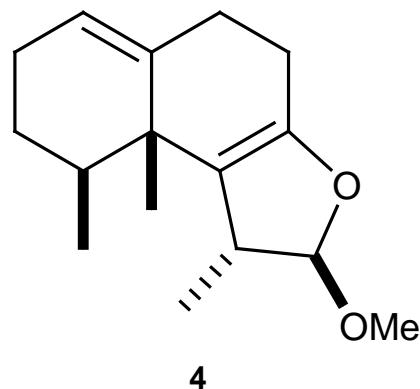
**Figure S22.**  $^1\text{H}$  NMR spectrum (400 MHz) of parathyrsoidin D (**4**) in  $\text{C}_6\text{D}_6$ .

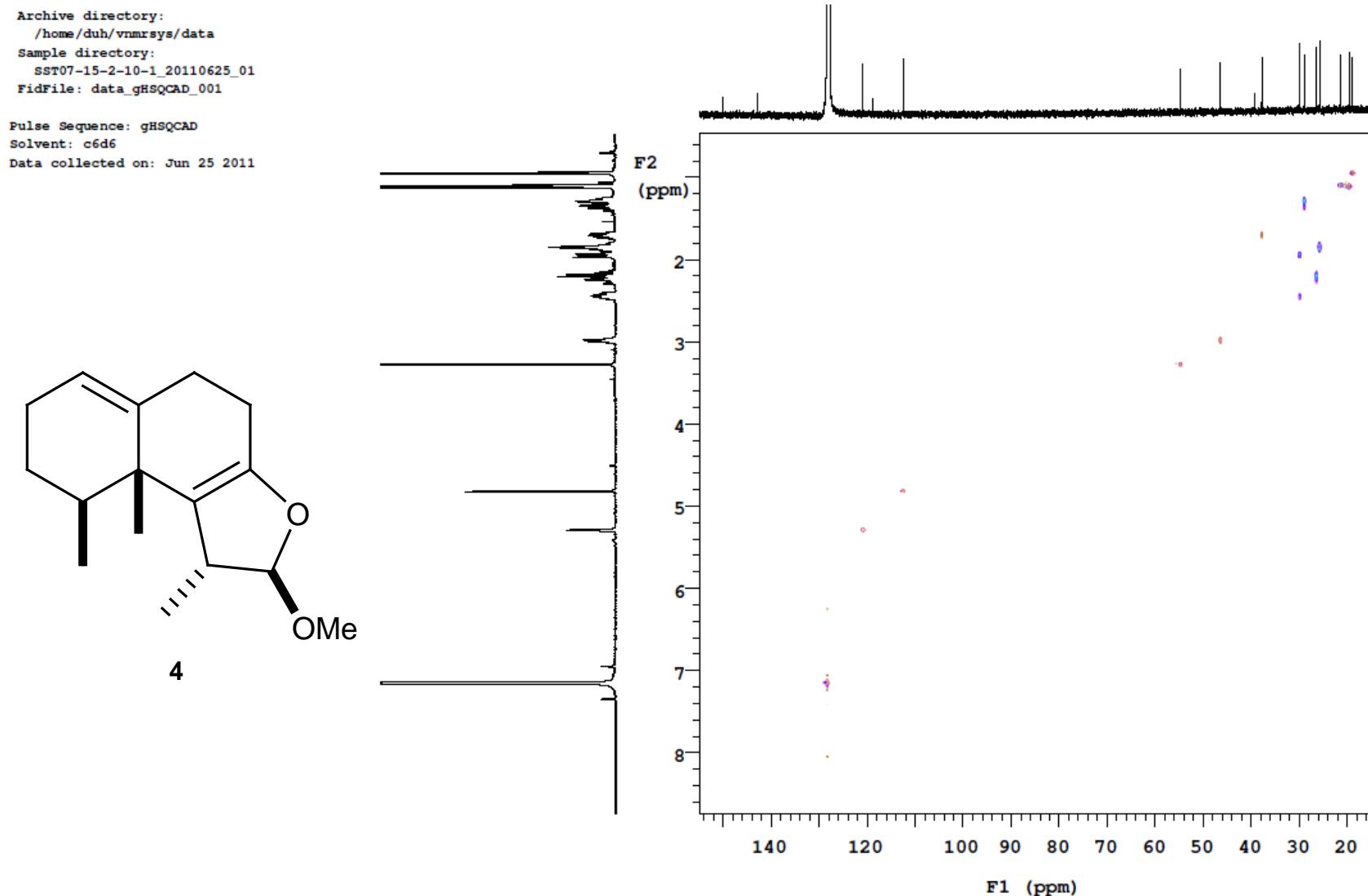
**Figure S23.**  $^{13}\text{C}$  NMR spectrum (400 MHz) of parathyrsoidin D (**4**) in  $\text{C}_6\text{D}_6$ .

**Figure S24.** COSY spectrum (400 MHz) of parathyrsoidin D (**4**) in C<sub>6</sub>D<sub>6</sub>.

```
Archive directory:  
  /home/duh/vnmrsys/data  
Sample directory:  
  SST07-15-2-10-1_20110625_01  
FidFile: data qCOSY 001
```

Pulse Sequence: gCOSY  
Solvent: c6d6  
Data collected on: Jun 25 2011

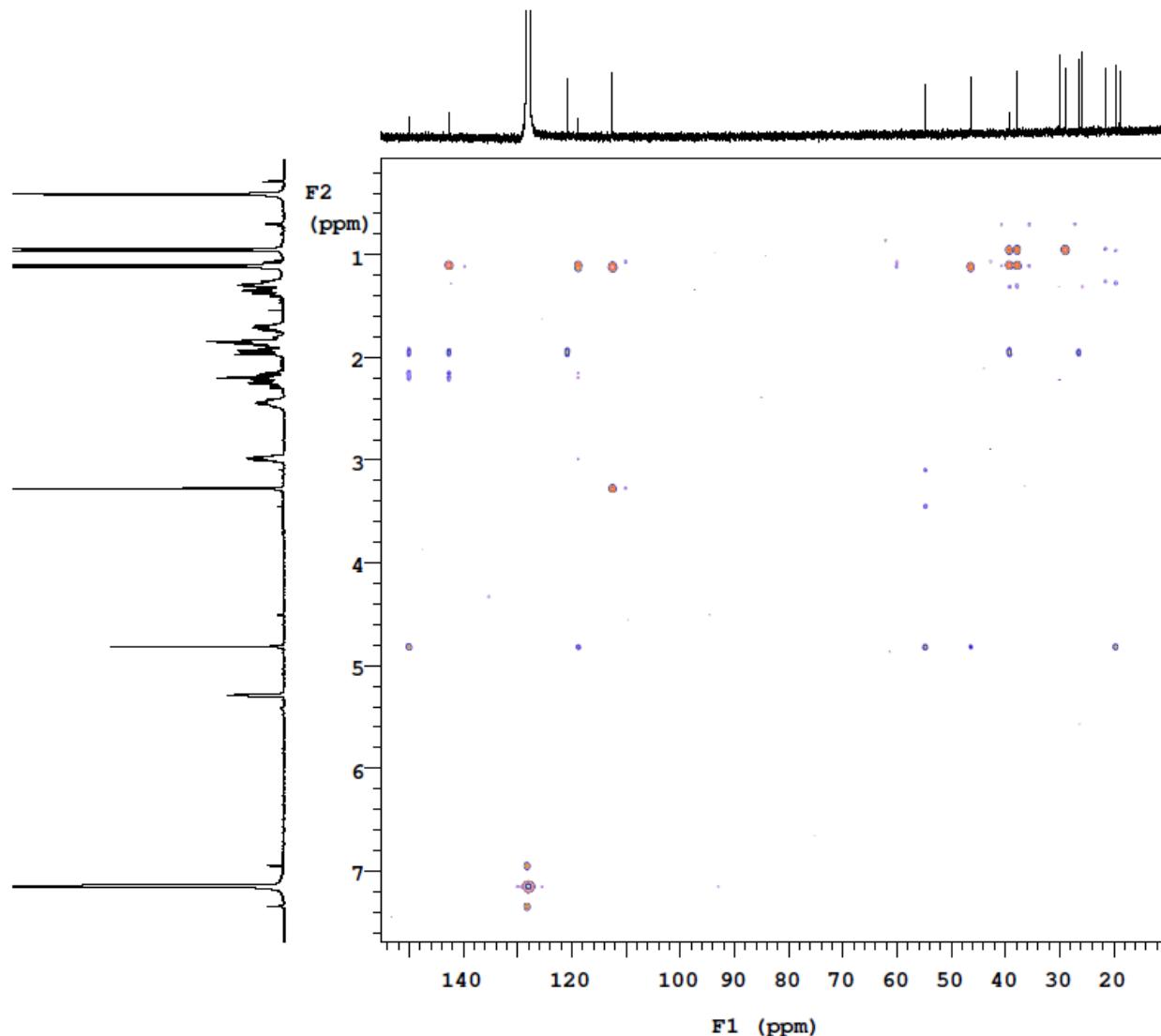
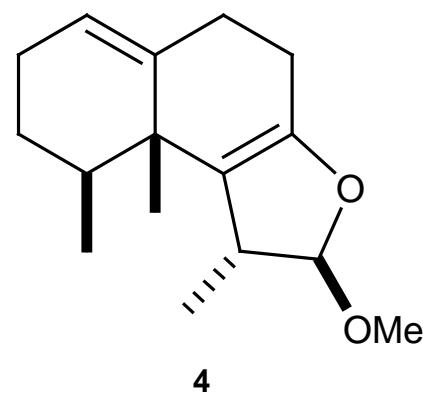


**Figure S25.** HSQC spectrum (400 MHz) of parathyrsoidin D (**4**) in C<sub>6</sub>D<sub>6</sub>.

**Figure S26.** HMBC spectrum (400 MHz) of parathyrsoidin D (**4**) in C<sub>6</sub>D<sub>6</sub>.

Archive directory:  
/home/duh/vnmrsys/data  
Sample directory:  
SST07-15-2-10-1\_20110625\_01  
FidFile: data\_gHMBCAD\_001

Pulse Sequence: gHMBCAD  
Solvent: c6d6  
Data collected on: Jun 26 2011



**Figure S27.** NOESY spectrum (400 MHz) of parathyrsoidin D (**4**) in C<sub>6</sub>D<sub>6</sub>.