

# The First Total Synthesis of (±)-Methyl Salvianolate A Using a Convergent Strategy

Bo Wang <sup>1,†</sup>, Liping Wang <sup>2,†</sup>, Ying Peng <sup>2</sup>, Yiyang Pang <sup>2</sup>, Hesheng Xiao <sup>2</sup>, Xiaoji Wang <sup>2,\*</sup> and Shuangping Huang <sup>3,4,\*</sup>

<sup>1</sup> School of Chemistry and Chemical Engineering, Jiangxi Science and Technology Normal University, Nanchang 330013, China; wbo0728@163.com

<sup>2</sup> School of Life Science, Jiangxi Science and Technology Normal University, Nanchang 330013, China; wlping92@163.com (L.W.); dapengpeng@163.com (Y.P.); 13667080401@163.com (Y.P.); xiaohes93@163.com (H.X.);

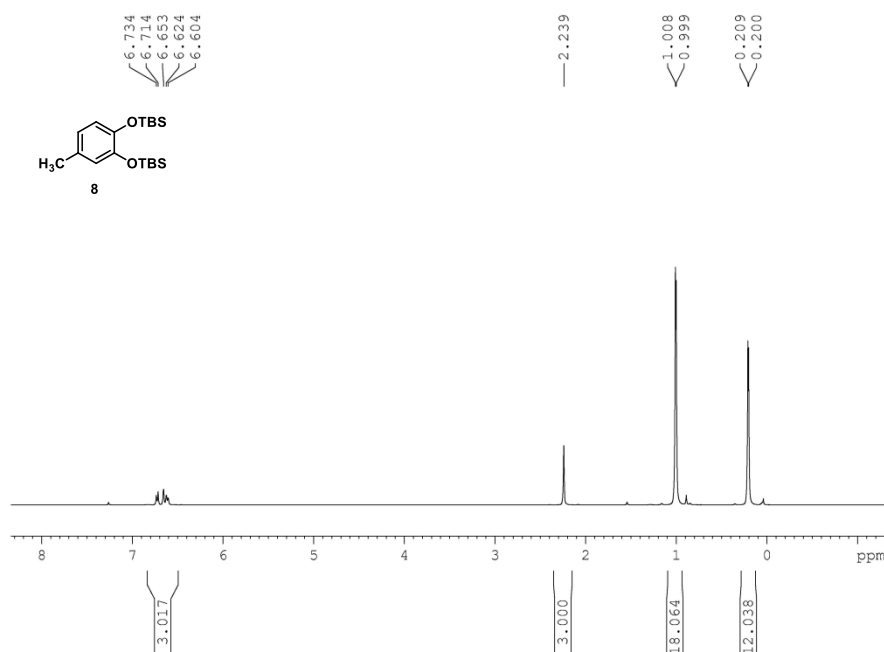
<sup>3</sup> School of Pharmacy, Jiangxi Science and Technology Normal University, Nanchang 330013, China

<sup>4</sup> College of Biomedical Engineering, Taiyuan University of Technology, Taiyuan 030024, China

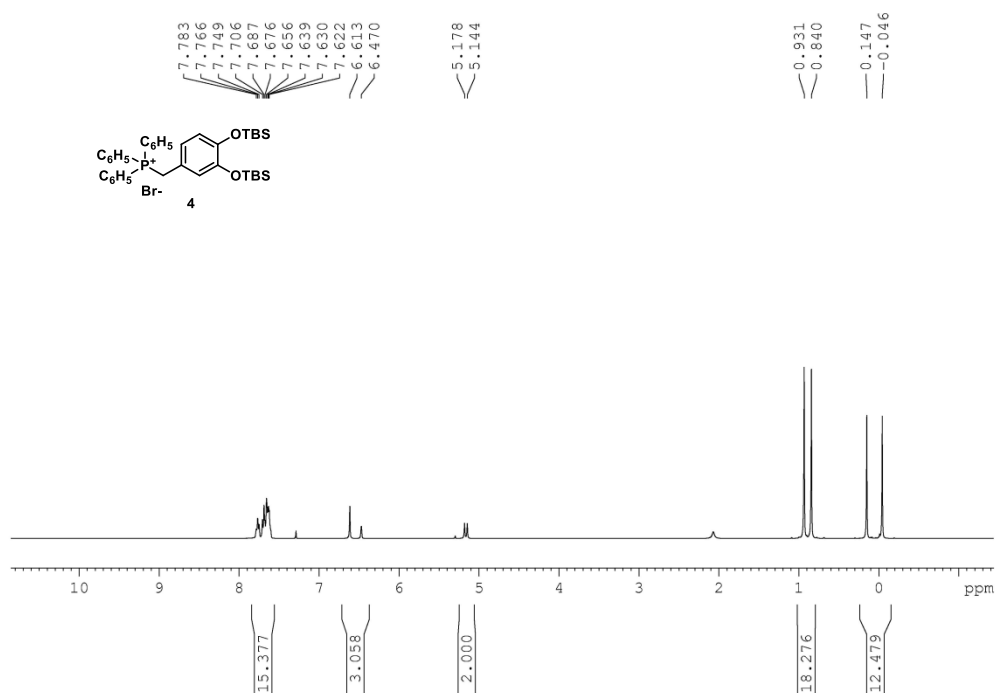
\* Correspondence: 2012207455@tju.edu.cn (X.W.); hsping02@gmail.com (S.H.);  
Tel.: +86-791-8380-5358 (S.H.)

† These two authors contributed equally to this work.

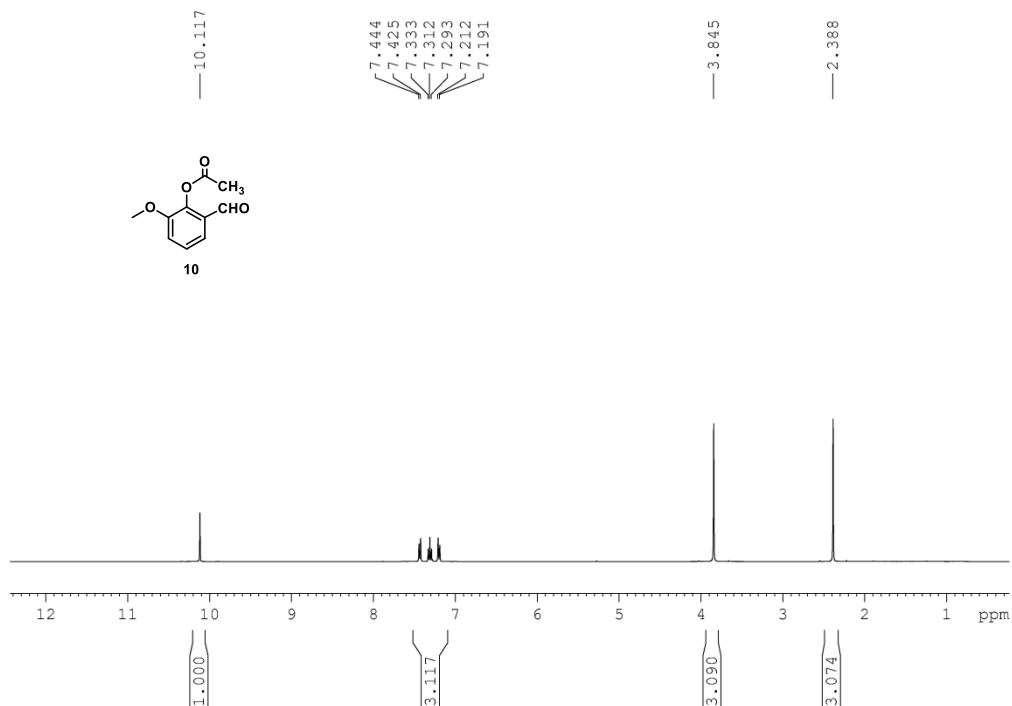
<sup>1</sup>H-NMR spectrum of **8** in CDCl<sub>3</sub>

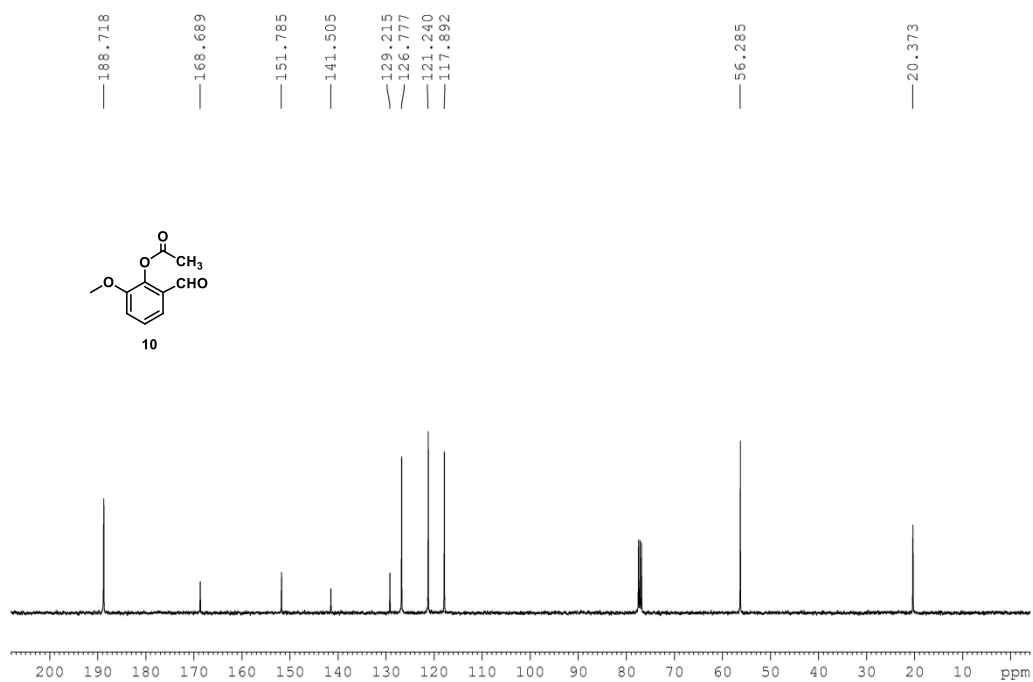


$^1\text{H}$ -NMR spectrum of **4** in  $\text{CDCl}_3$

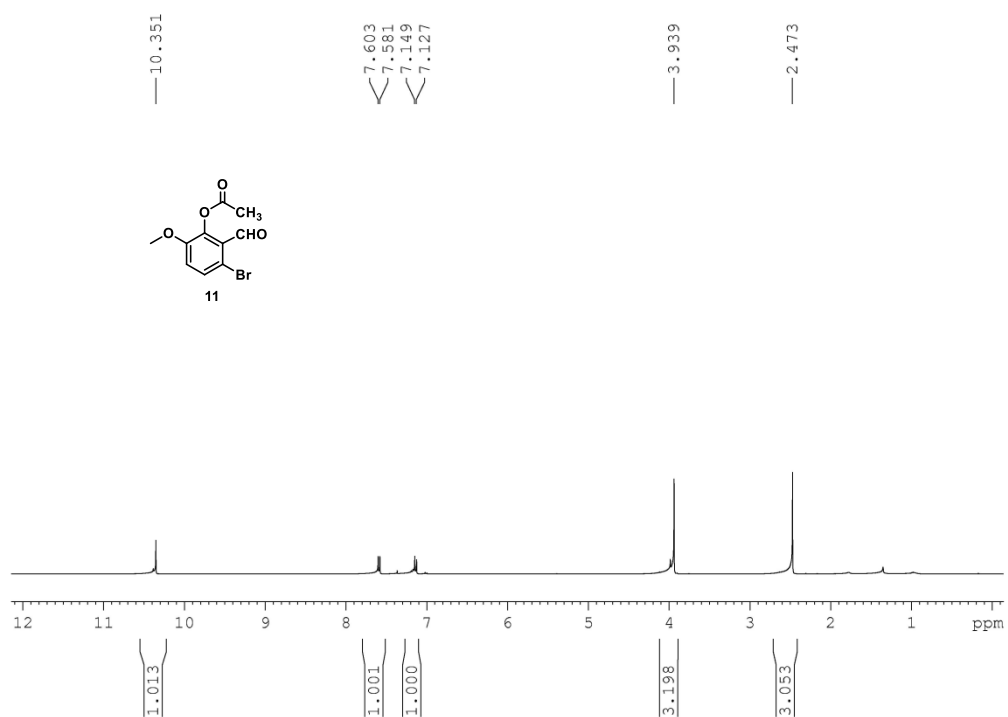


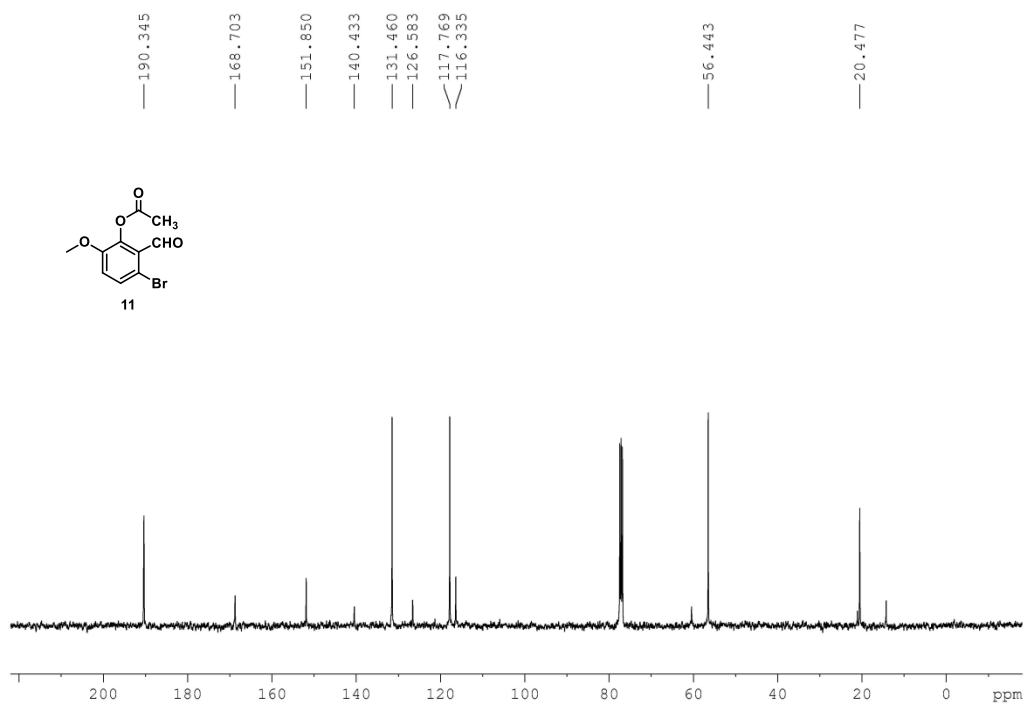
$^1\text{H}$ - and  $^{13}\text{C}$ -NMR spectra of **10** in  $\text{CDCl}_3$



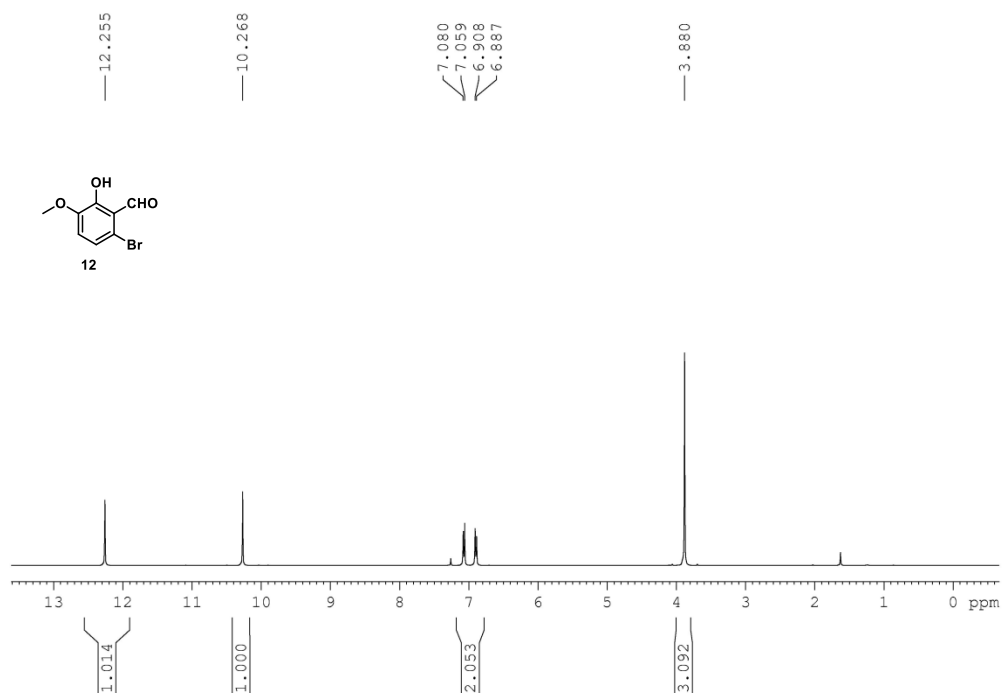


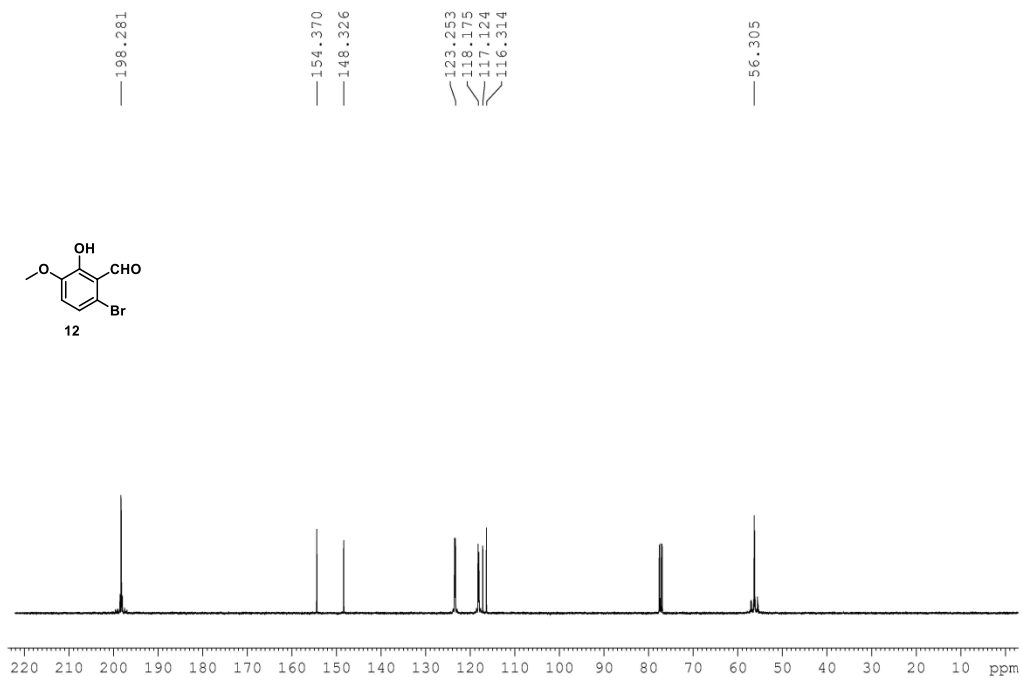
<sup>1</sup>H- and <sup>13</sup>C-NMR spectra of **11** in CDCl<sub>3</sub>



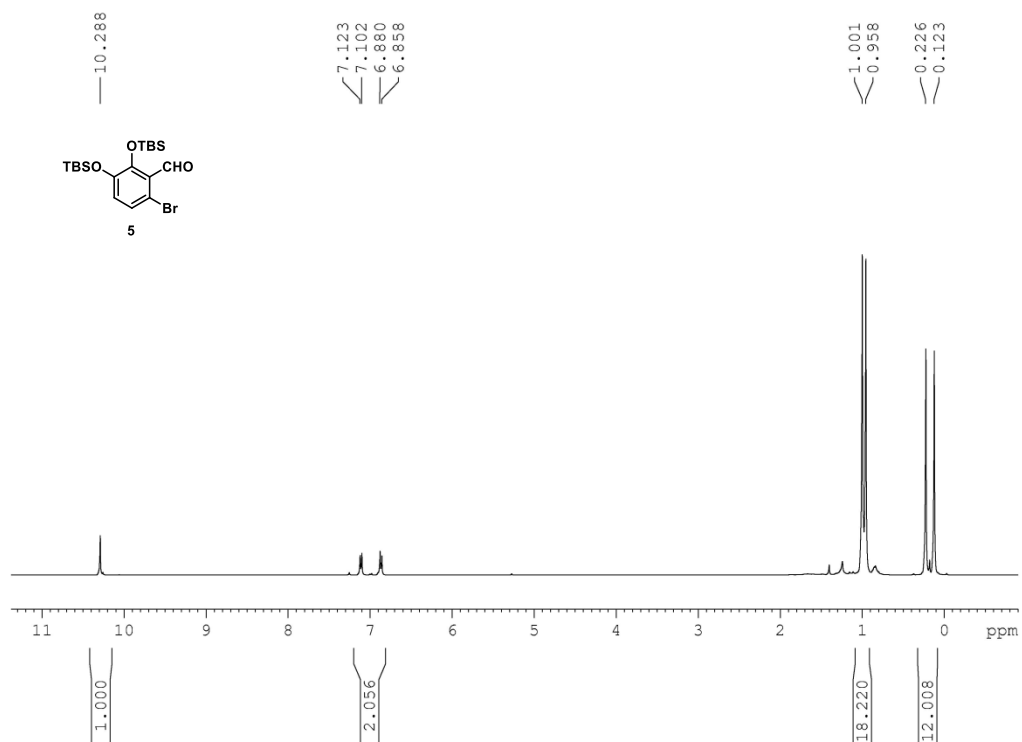


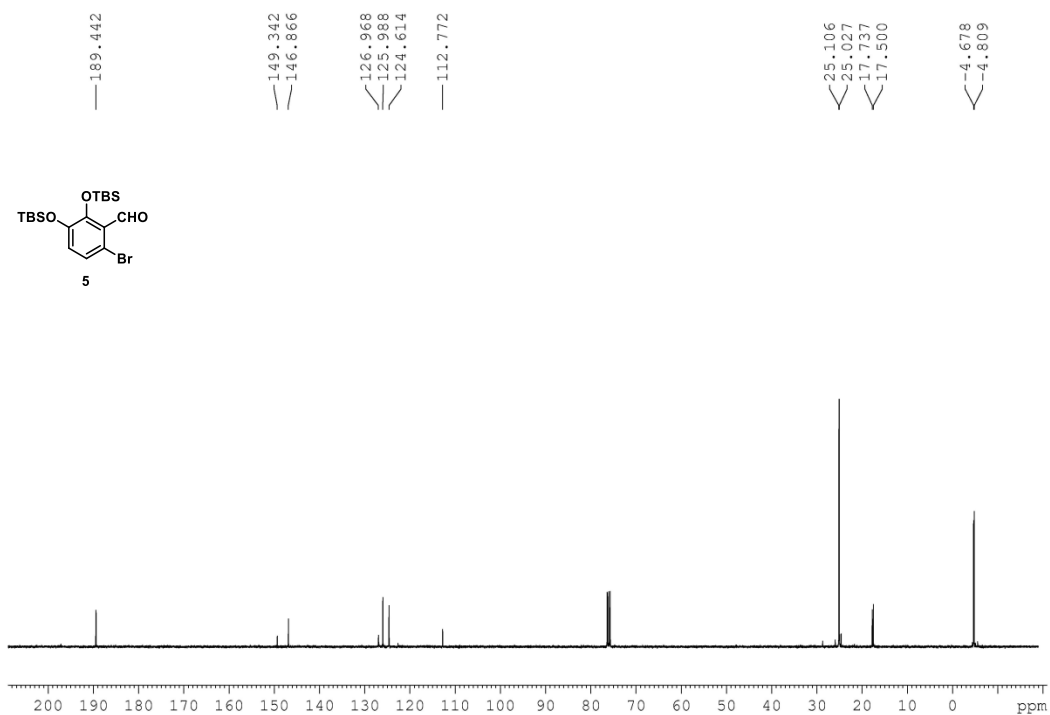
<sup>1</sup>H- and <sup>13</sup>C-NMR spectra of **12** in CDCl<sub>3</sub>



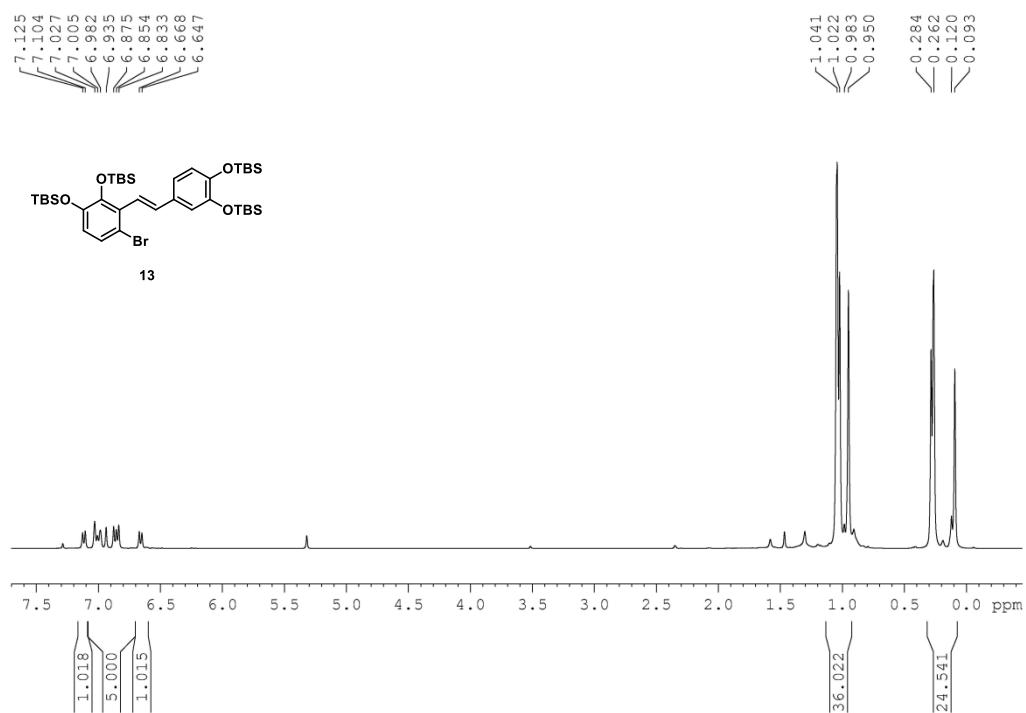


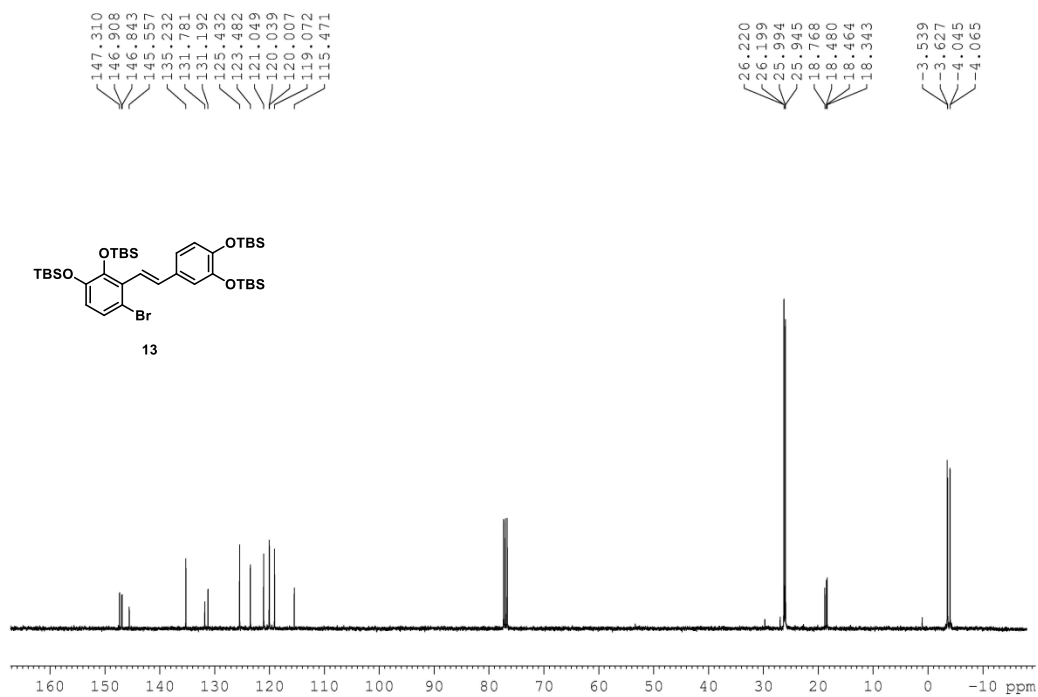
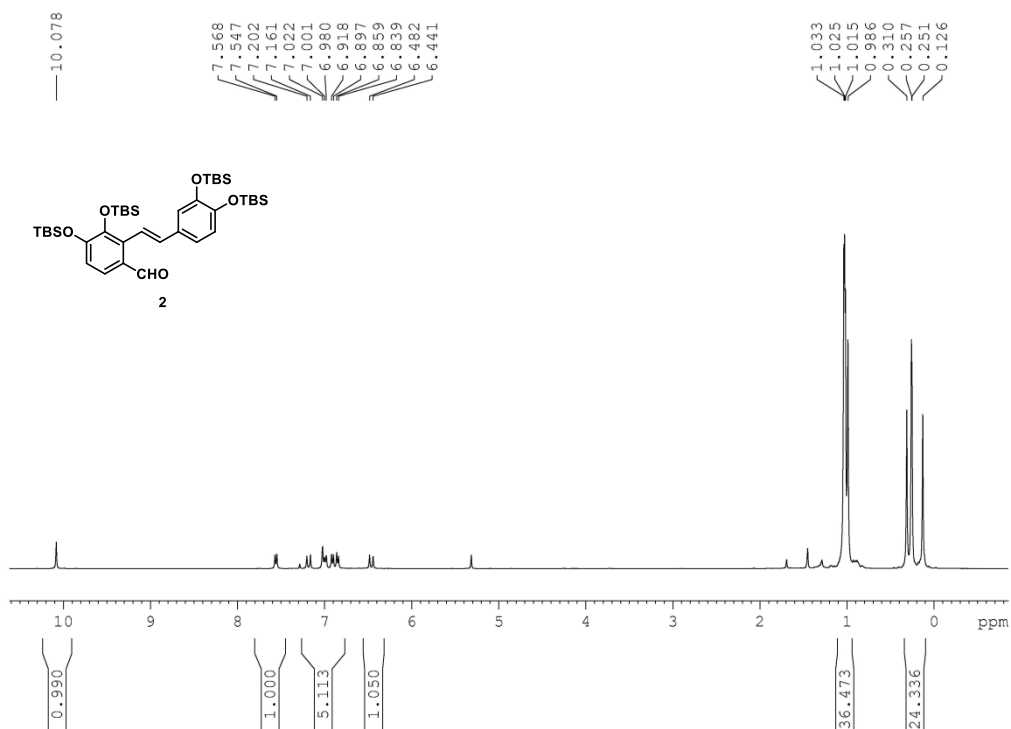
<sup>1</sup>H- and <sup>13</sup>C-NMR spectra of **5** in CDCl<sub>3</sub>



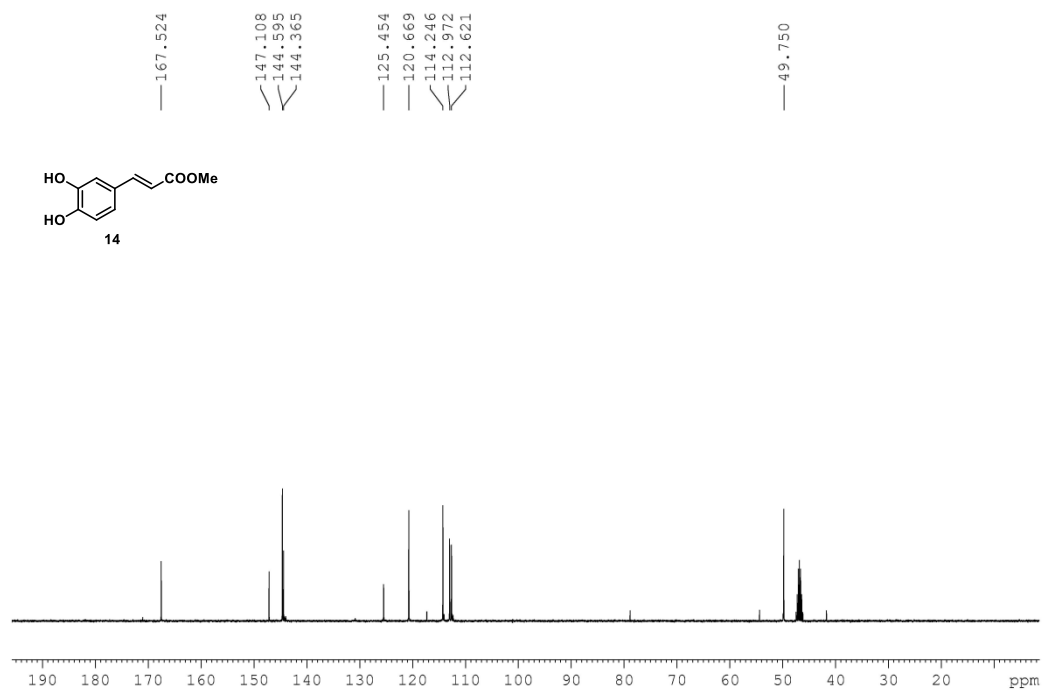


<sup>1</sup>H- and <sup>13</sup>C-NMR spectra of **13** in CDCl<sub>3</sub>

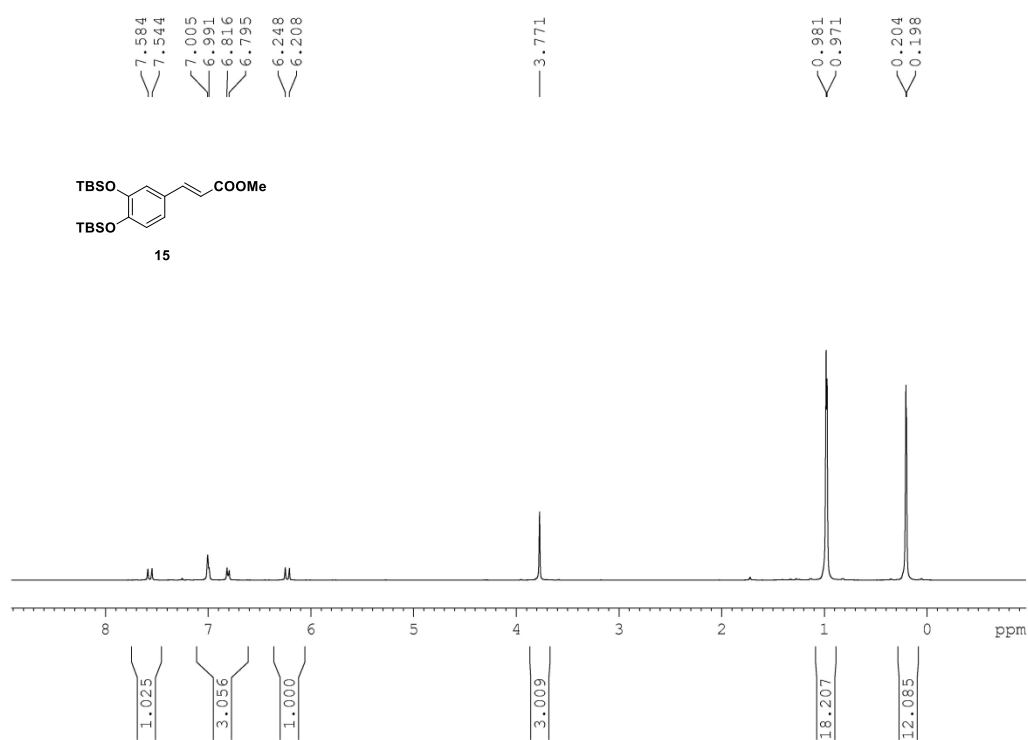


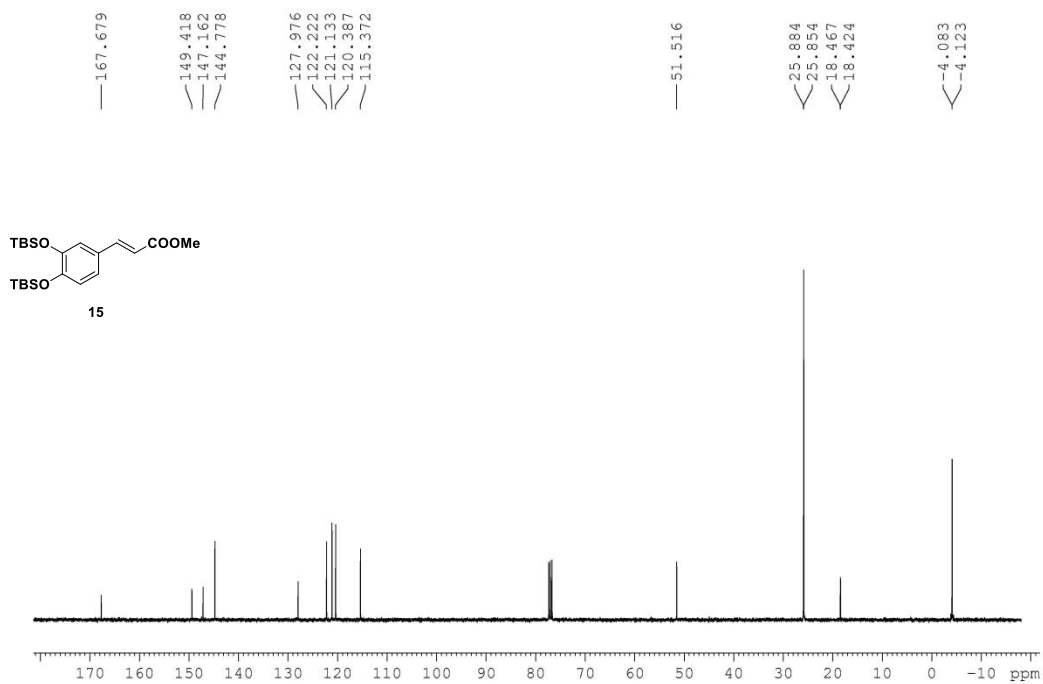
<sup>1</sup>H- and <sup>13</sup>C-NMR spectra of **2** in CDCl<sub>3</sub>



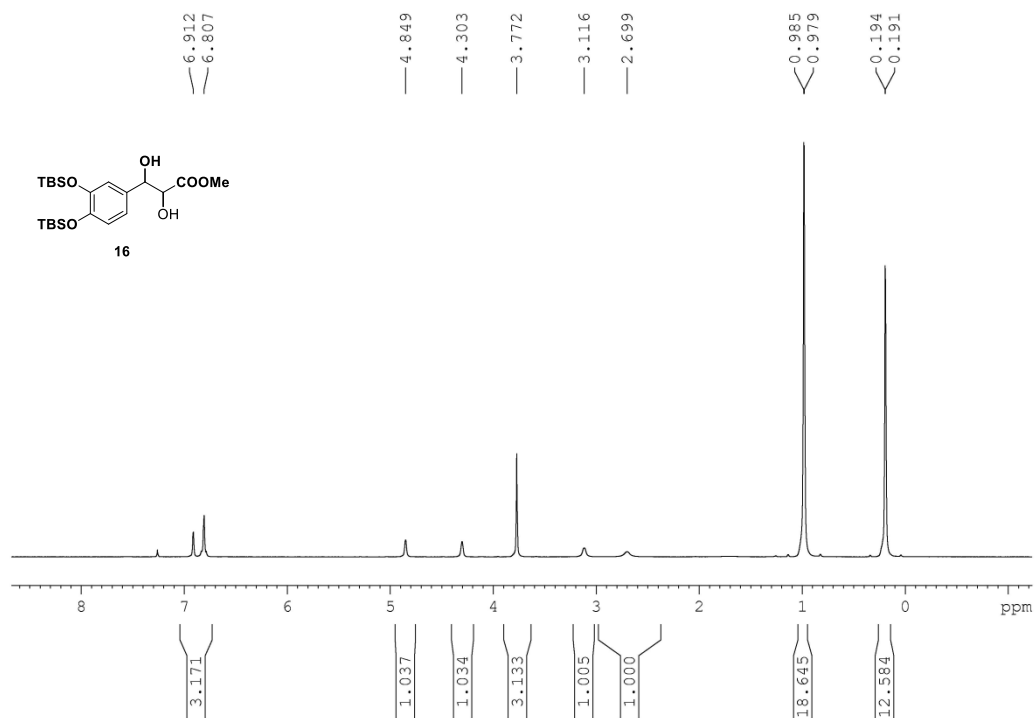


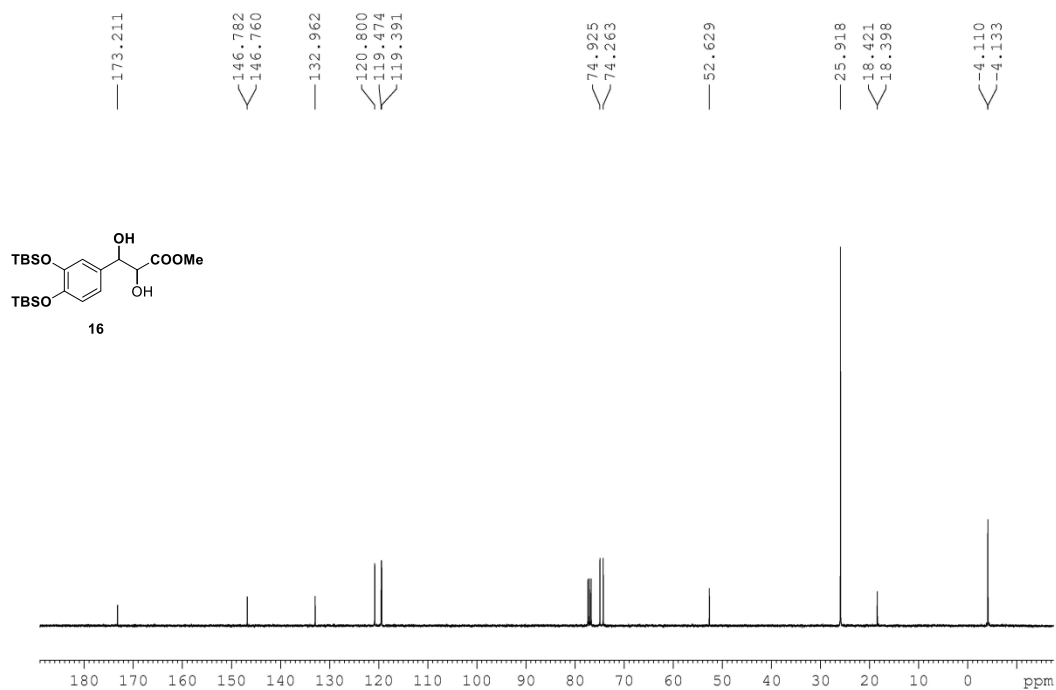
<sup>1</sup>H- and <sup>13</sup>C-NMR spectra of **15** in CDCl<sub>3</sub>



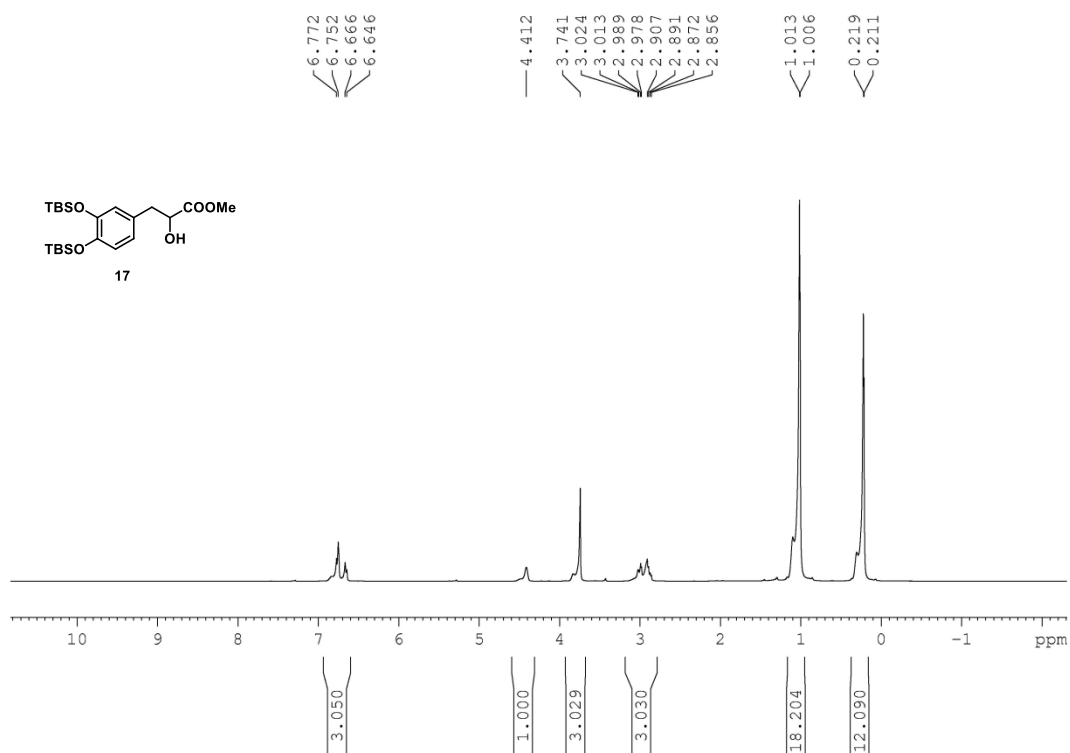


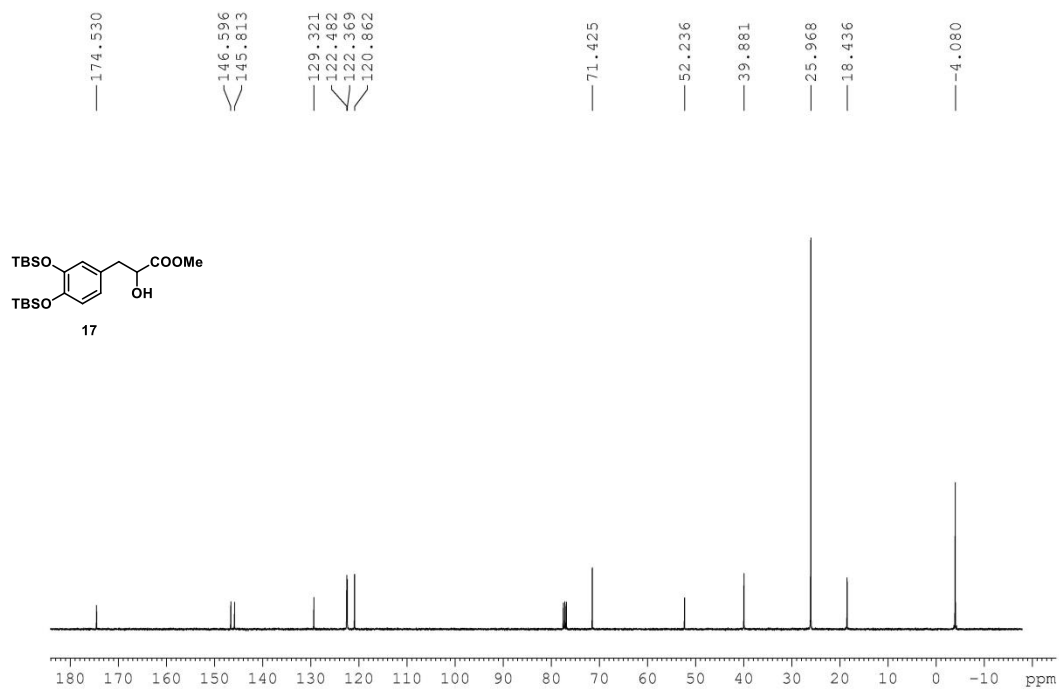
<sup>1</sup>H- and <sup>13</sup>C-NMR spectra of **16** in CDCl<sub>3</sub>



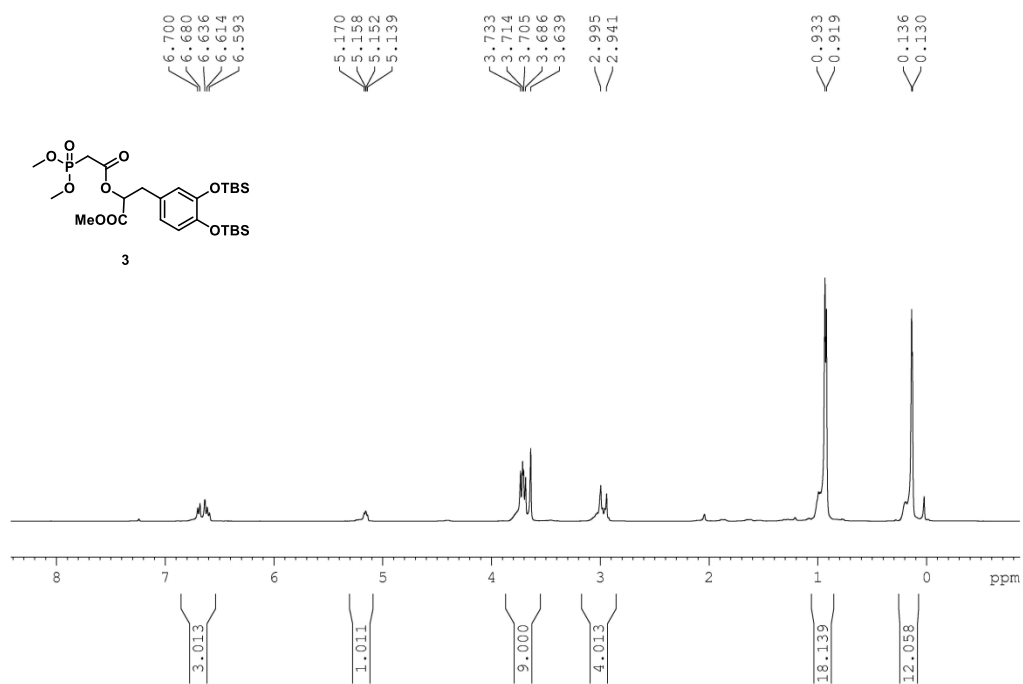


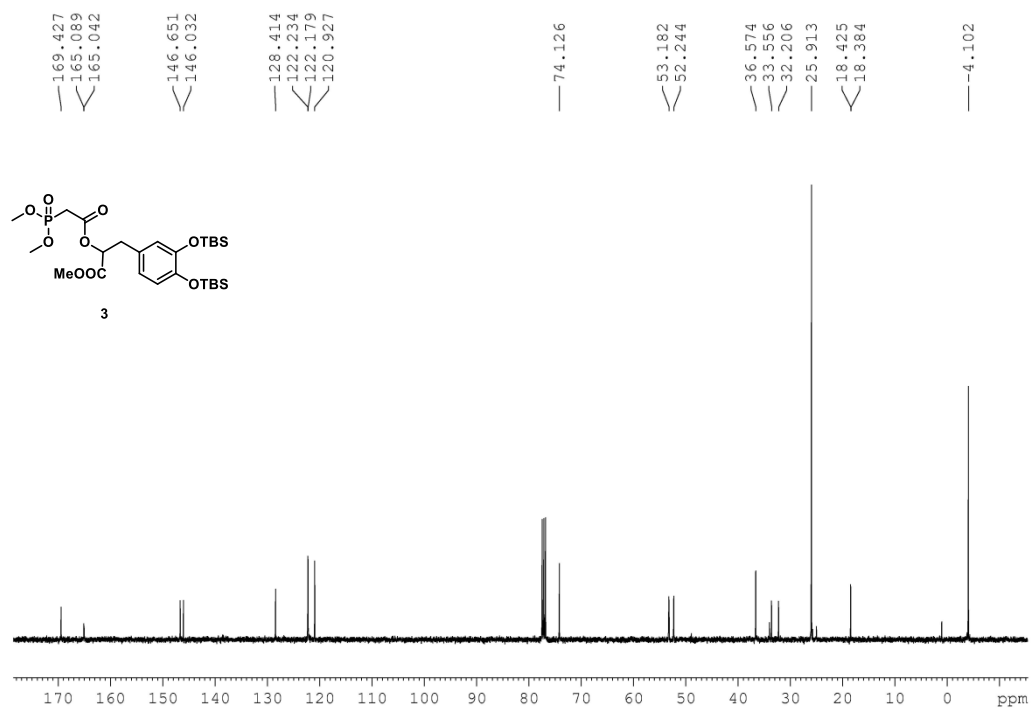
<sup>1</sup>H- and <sup>13</sup>C-NMR spectra of **17** in CDCl<sub>3</sub>



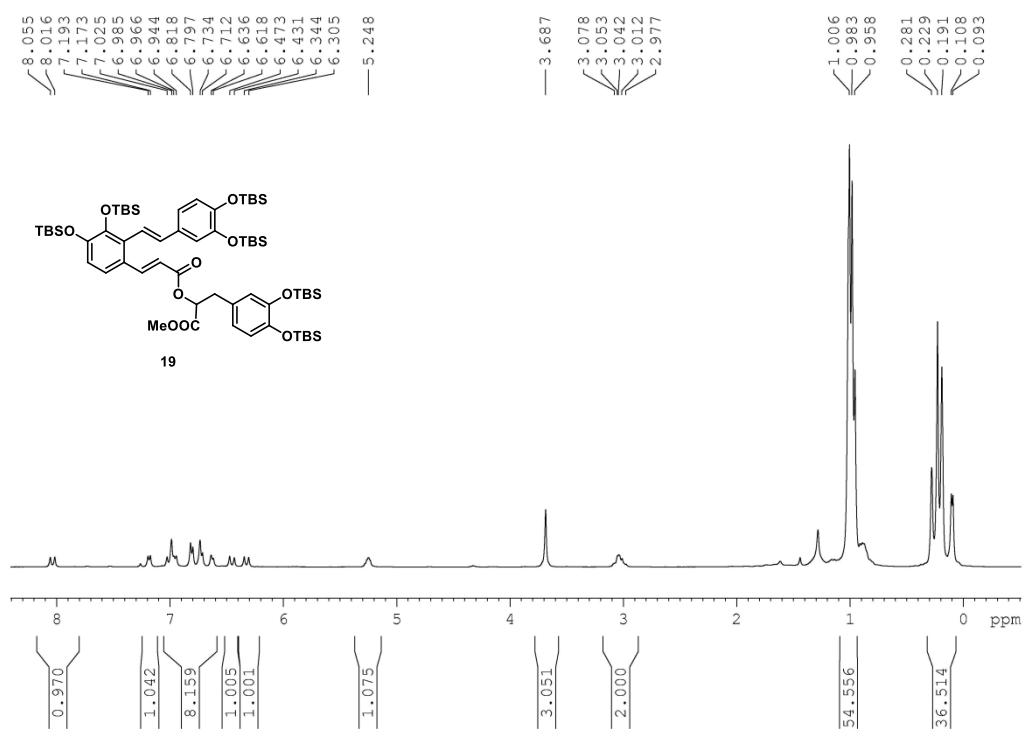


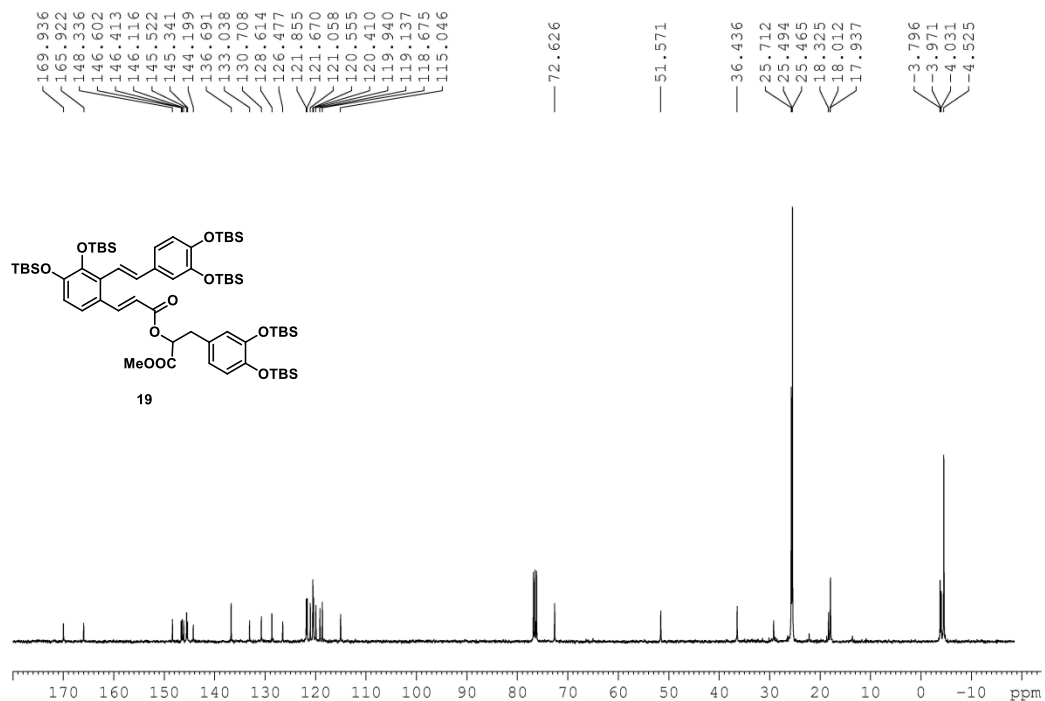
<sup>1</sup>H- and <sup>13</sup>C-NMR spectra of 3 in CDCl<sub>3</sub>





<sup>1</sup>H- and <sup>13</sup>C-NMR spectra of **19** in CDCl<sub>3</sub>





**<sup>1</sup>H- and <sup>13</sup>C-NMR spectra of 1 in CD<sub>3</sub>OD**

