

## Gram-scale carbasugars synthesis *via* intramolecular *seleno-Michael/aldol* reaction

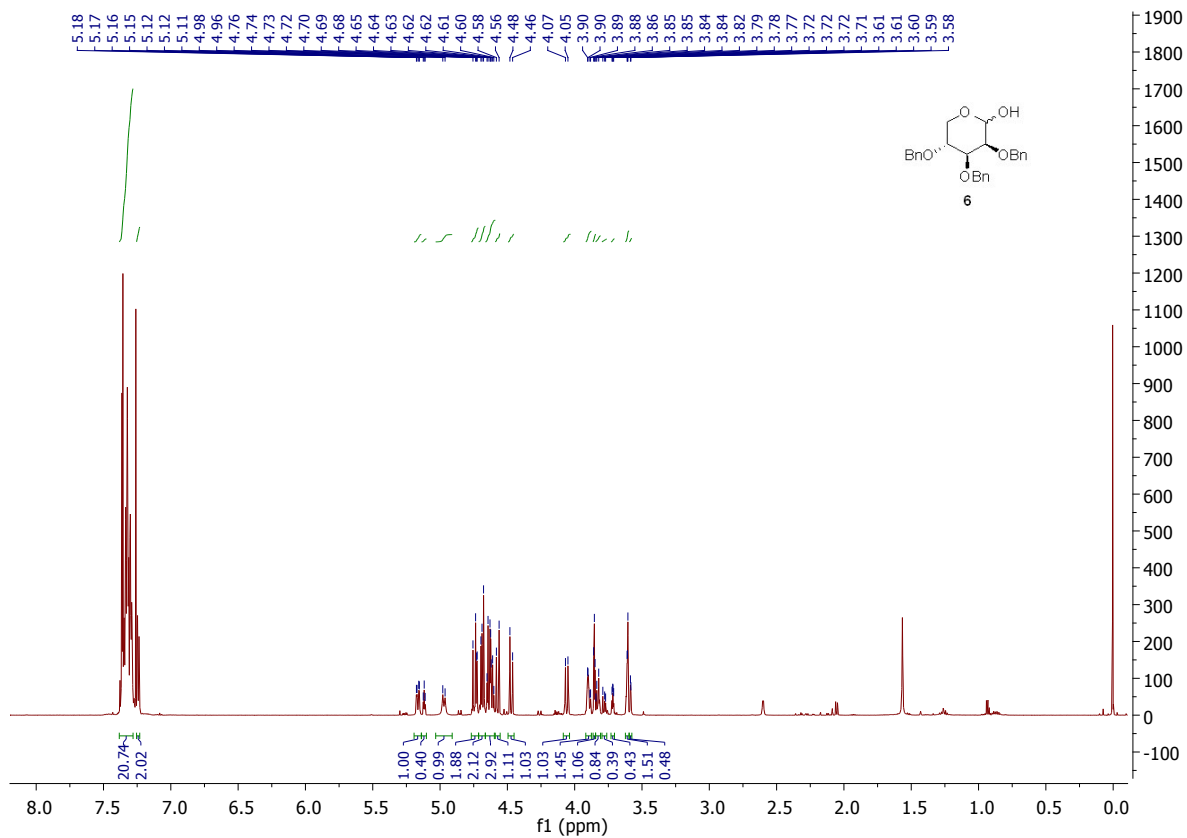
Piotr Banachowicz<sup>a</sup> and Szymon Buda\*<sup>a</sup>

<sup>a</sup>Faculty of Chemistry, Jagiellonian University, Gronostajowa 2, 30-387 Krakow

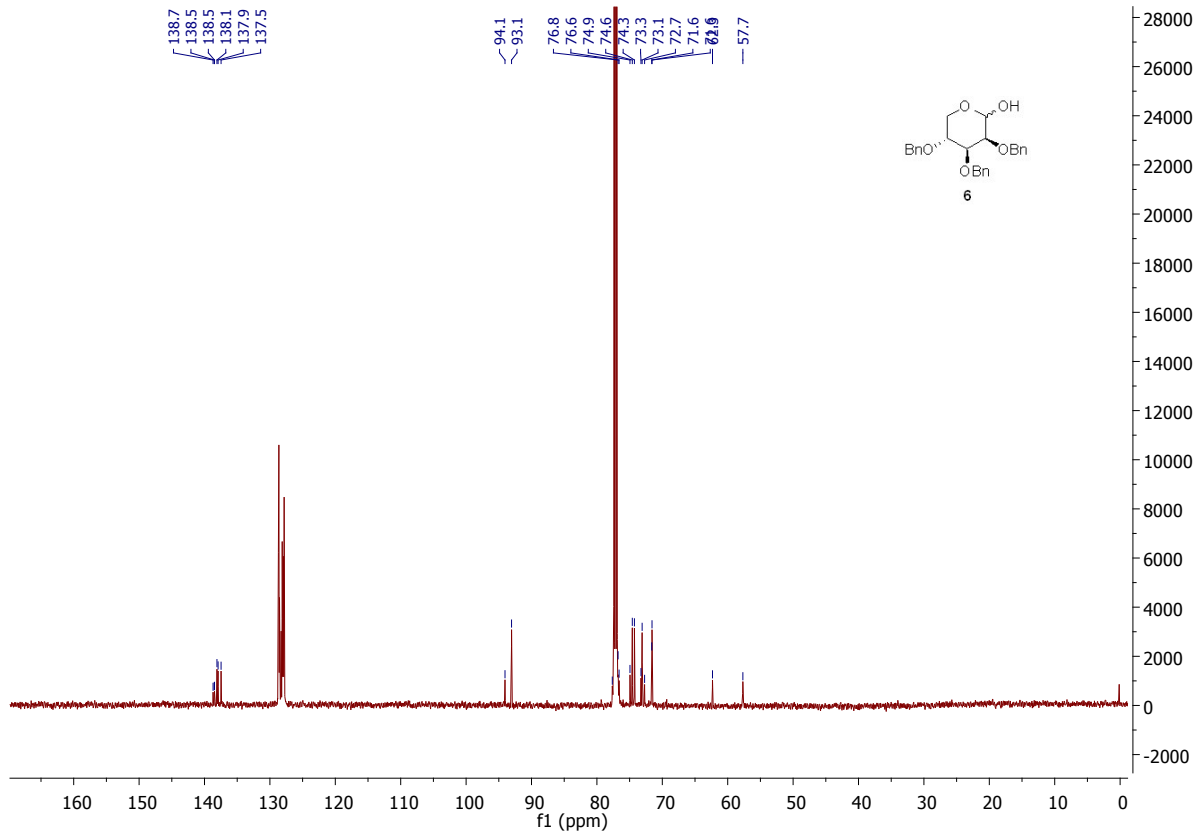
szym.buda@gmail.com

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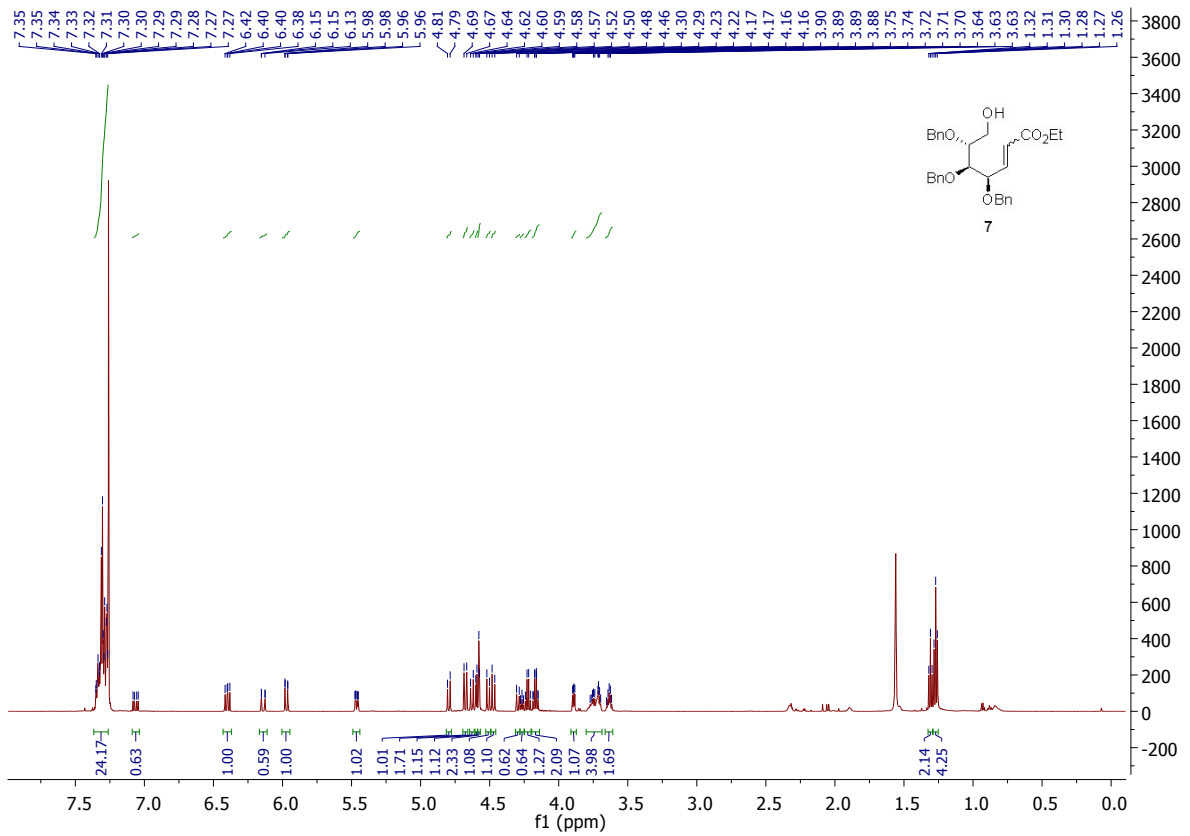
<b><sup>1</sup>H and <sup>13</sup>C NMR spectra .....</b>	<b>S2</b>
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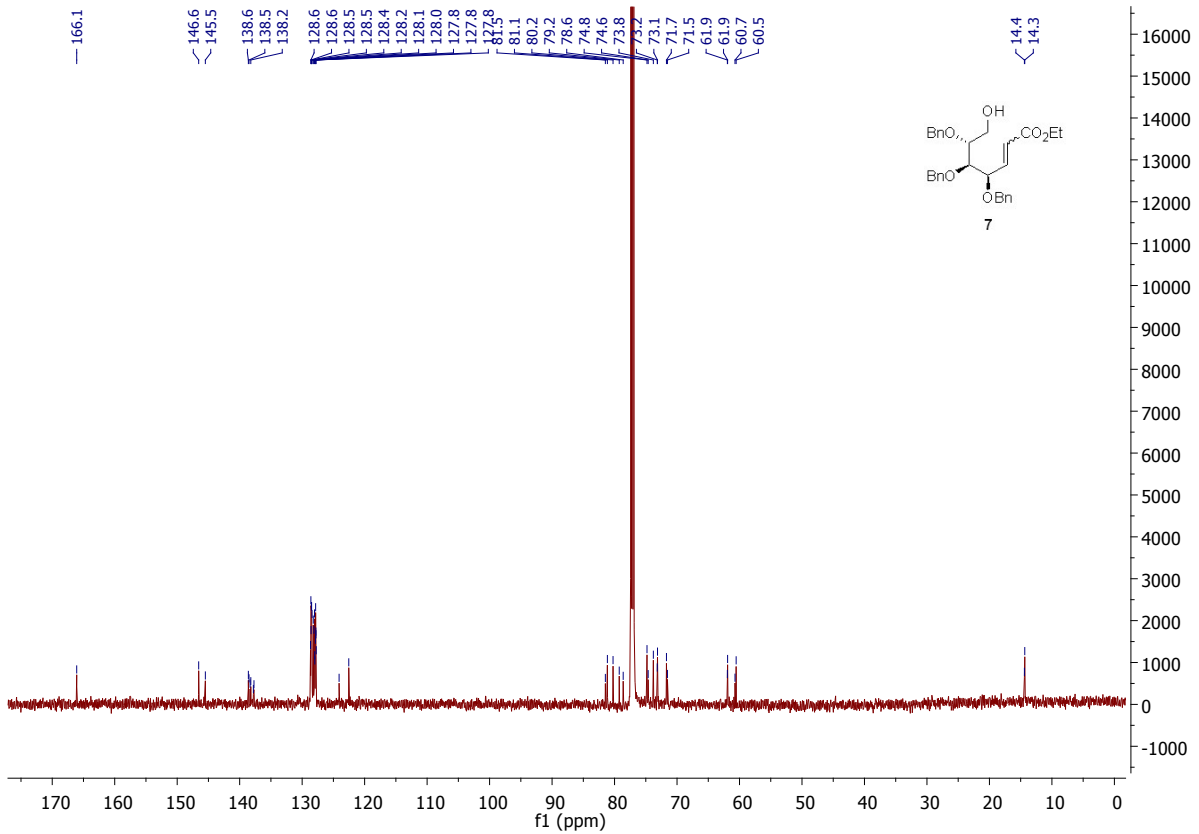
<sup>1</sup>H-NMR Spectrum of Compound 6 (CDCl<sub>3</sub>)



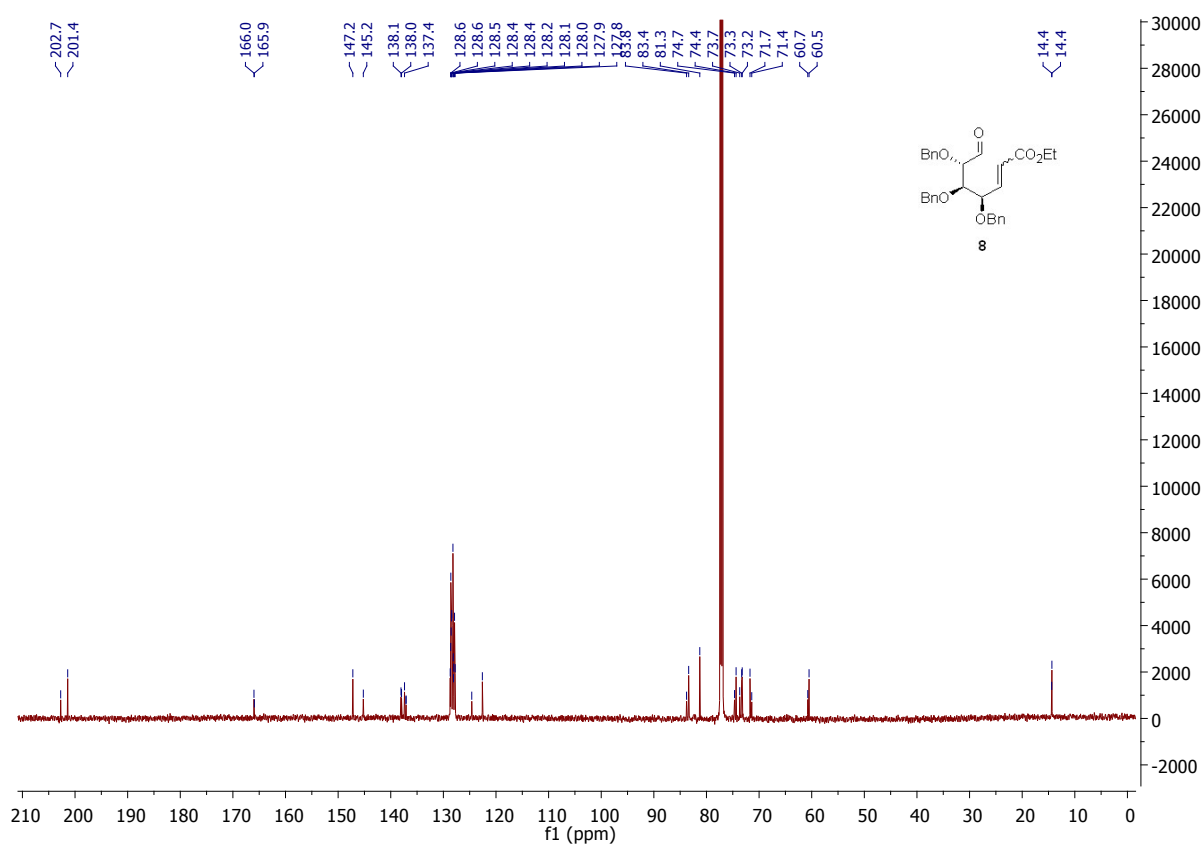
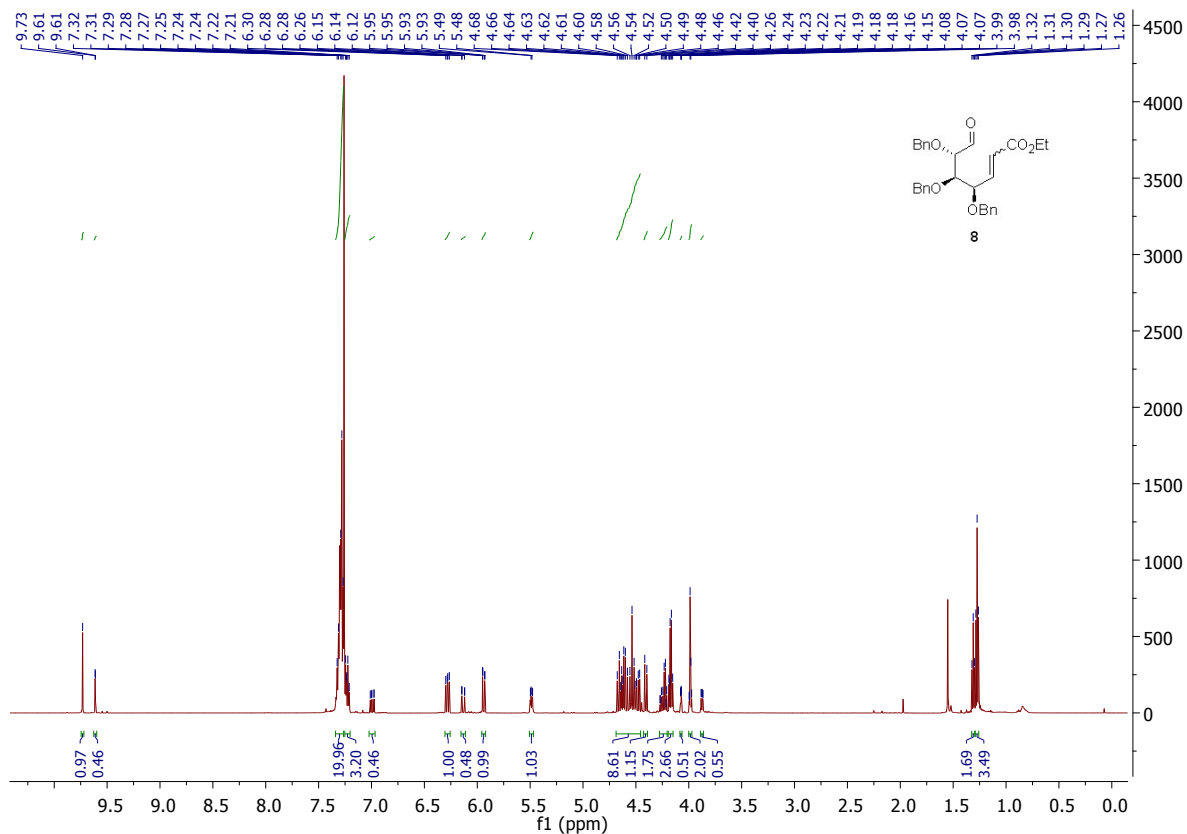
<sup>13</sup>C-NMR Spectrum of Compound 6 (CDCl<sub>3</sub>)

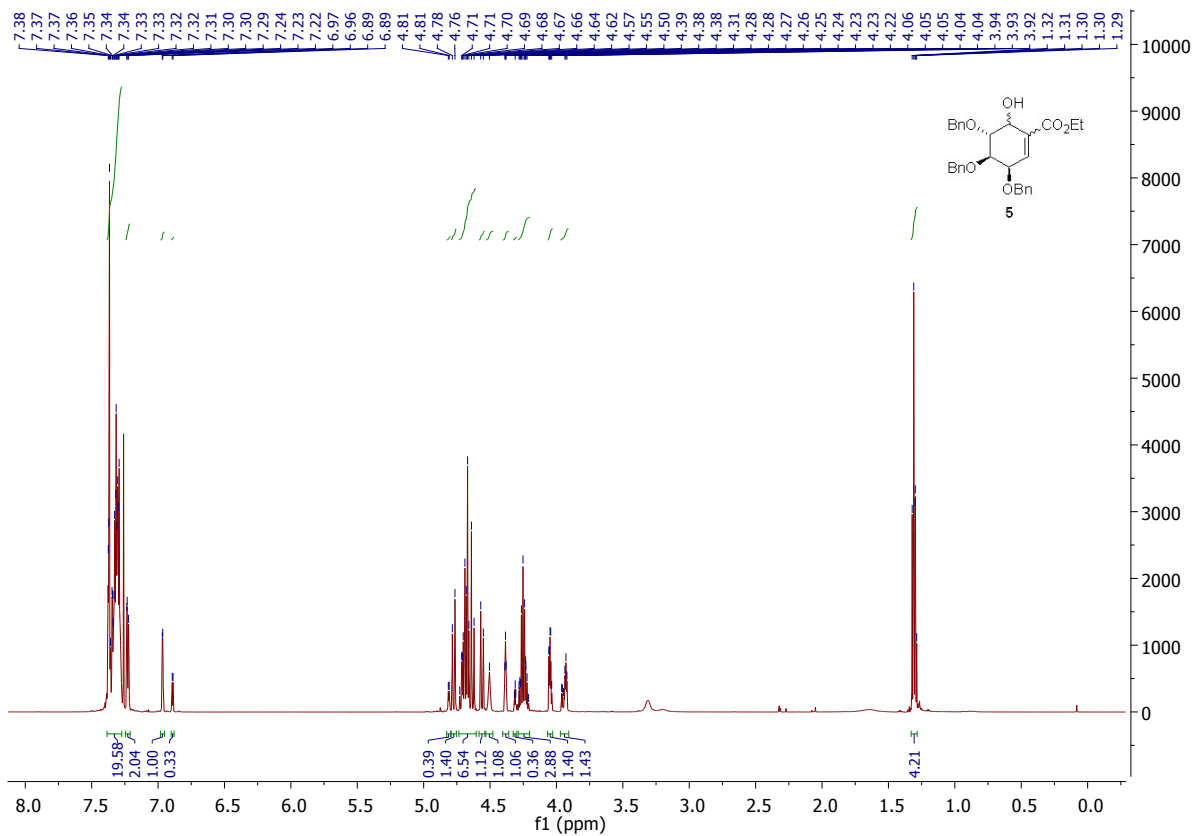


<sup>1</sup>H-NMR Spectrum of Compound 7 (CDCl<sub>3</sub>)

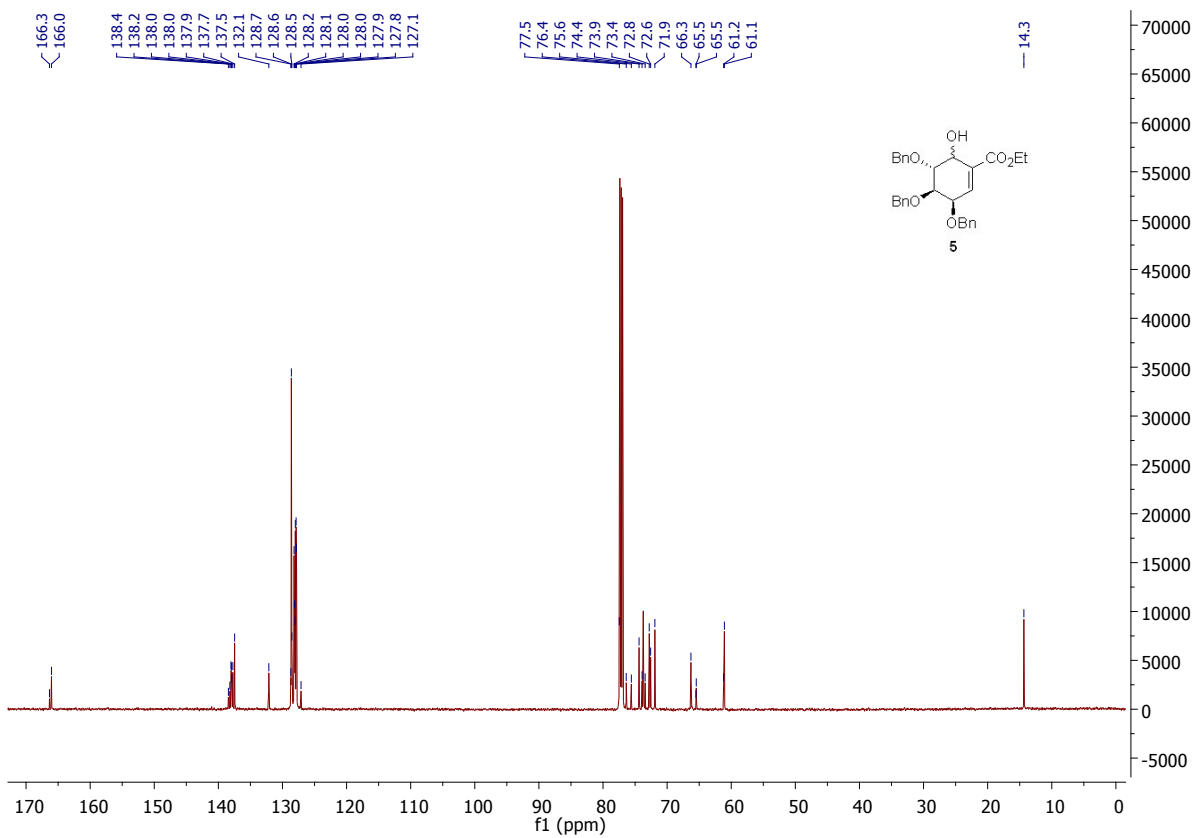


<sup>13</sup>C-NMR Spectrum of Compound 7 (CDCl<sub>3</sub>)

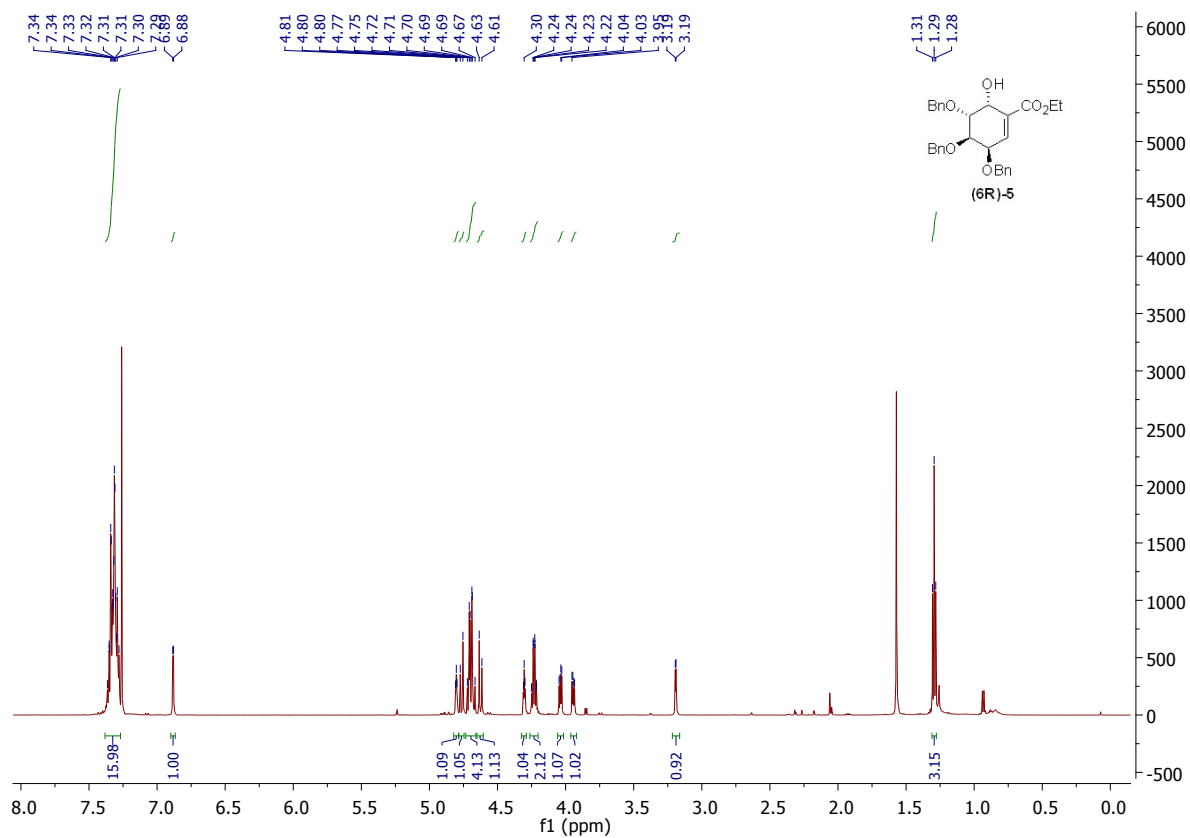




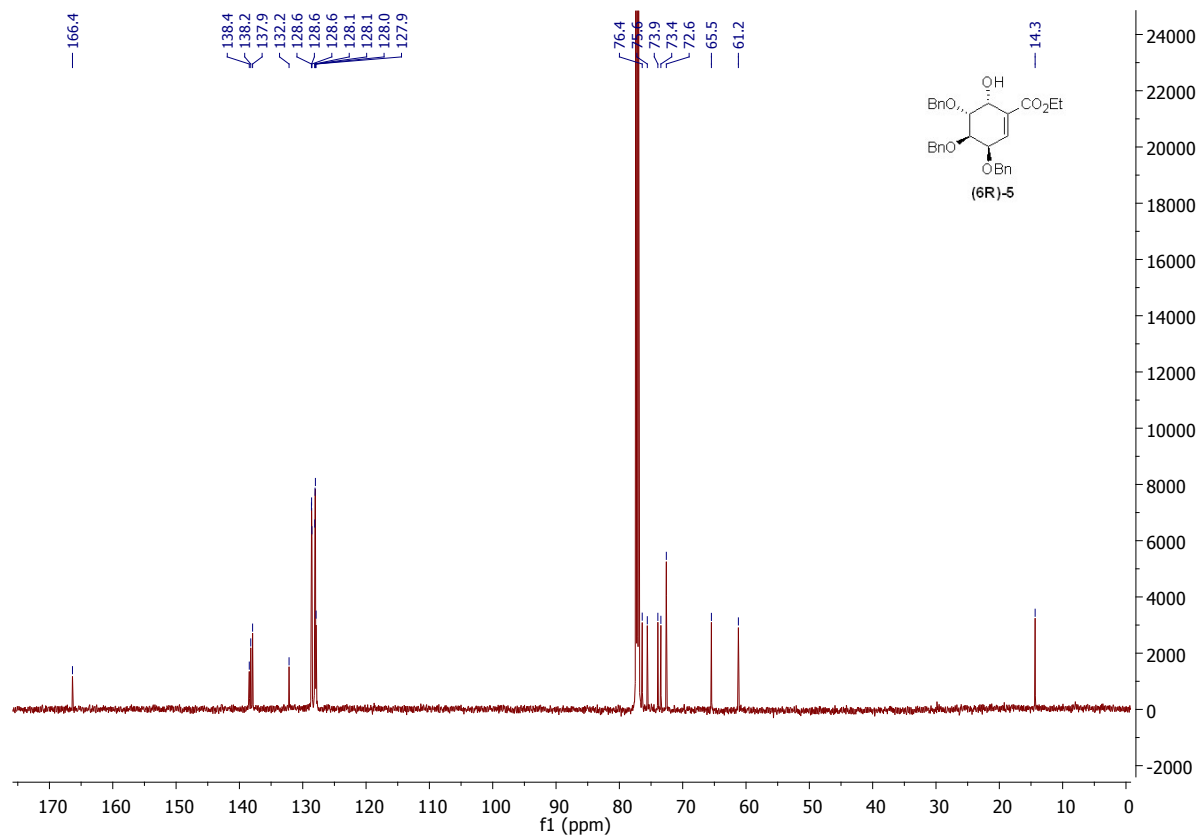
**<sup>1</sup>H-NMR Spectrum of Compound 5 (CDCl<sub>3</sub>)**



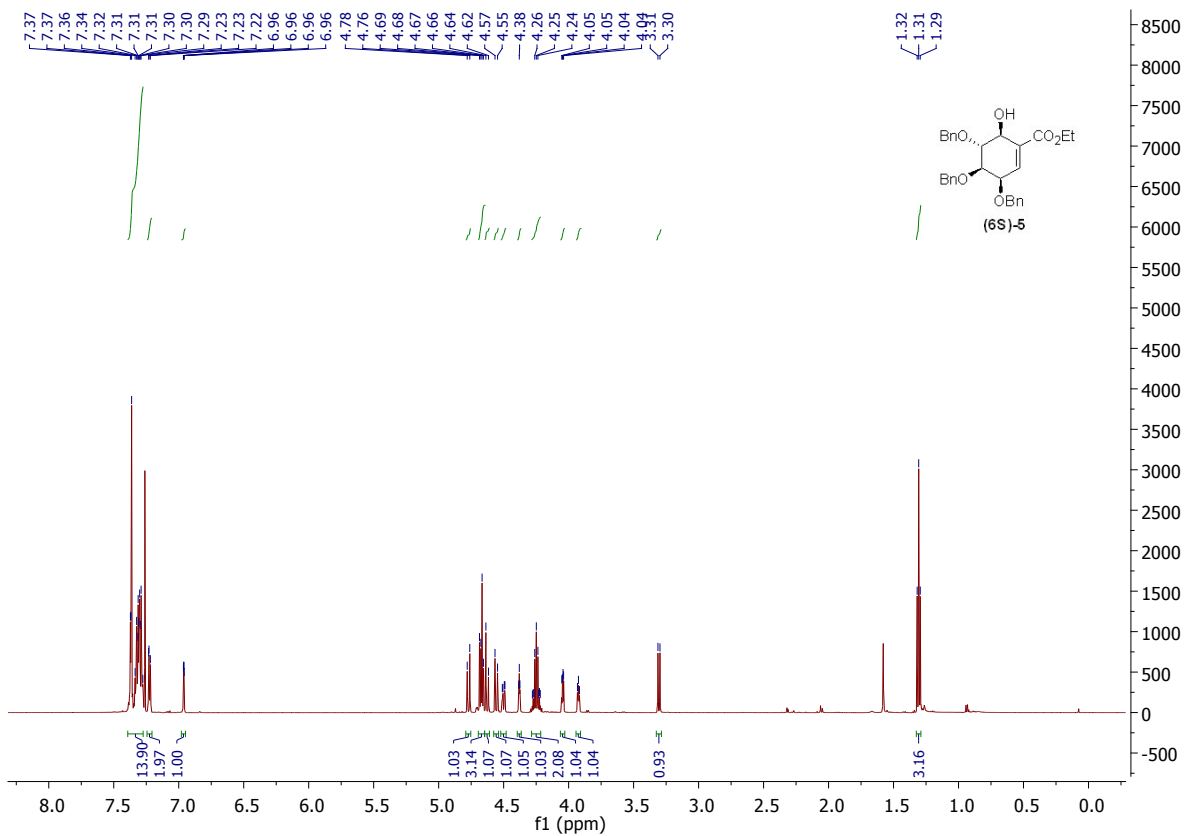
**<sup>13</sup>C-NMR Spectrum of Compound 5 (CDCl<sub>3</sub>)**



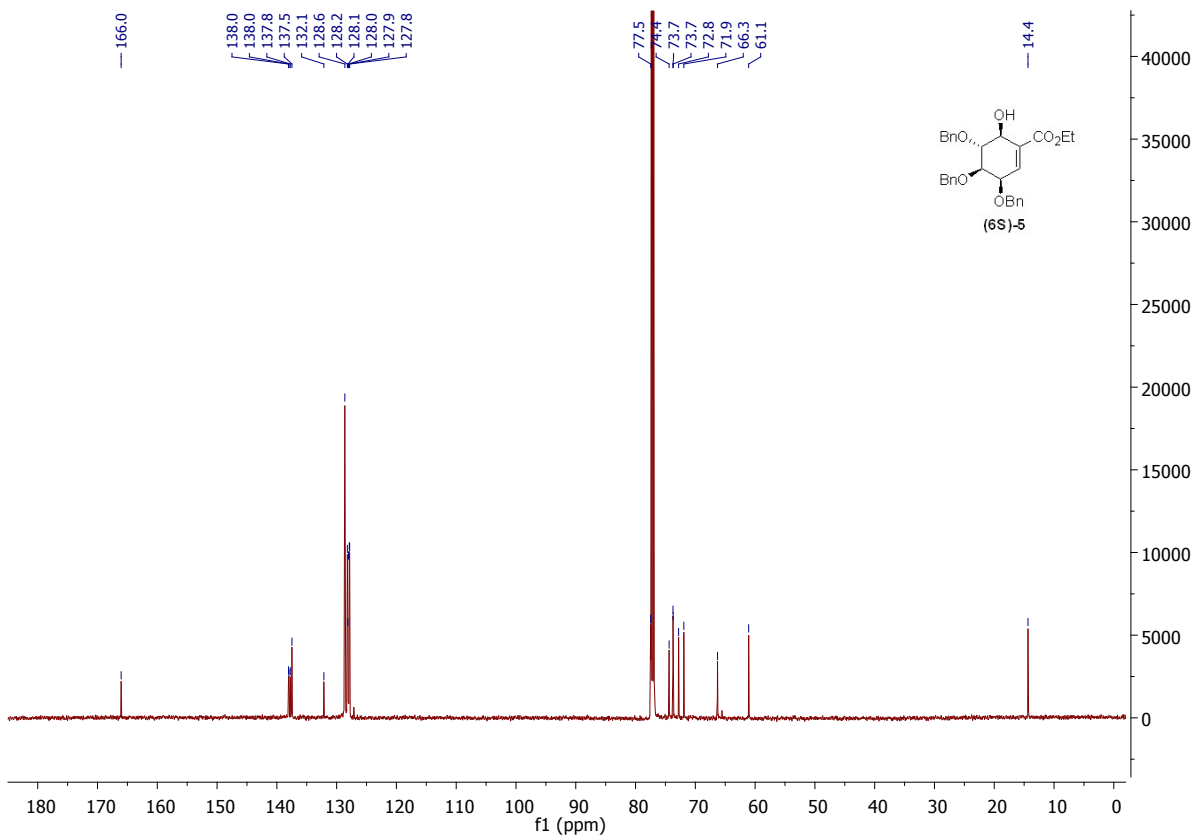
**<sup>1</sup>H-NMR Spectrum of Compound (6R)-5 (CDCl<sub>3</sub>)**



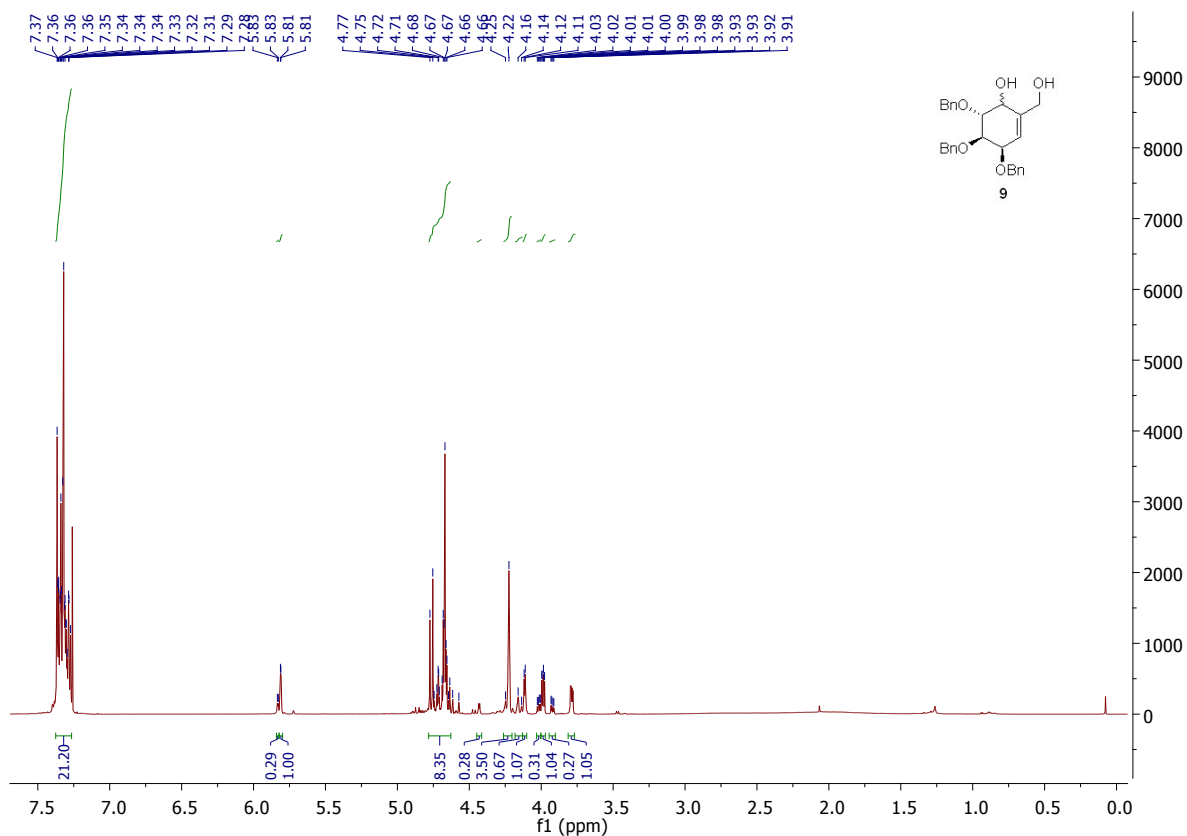
**<sup>13</sup>C-NMR Spectrum of Compound (6R)-5 (CDCl<sub>3</sub>)**



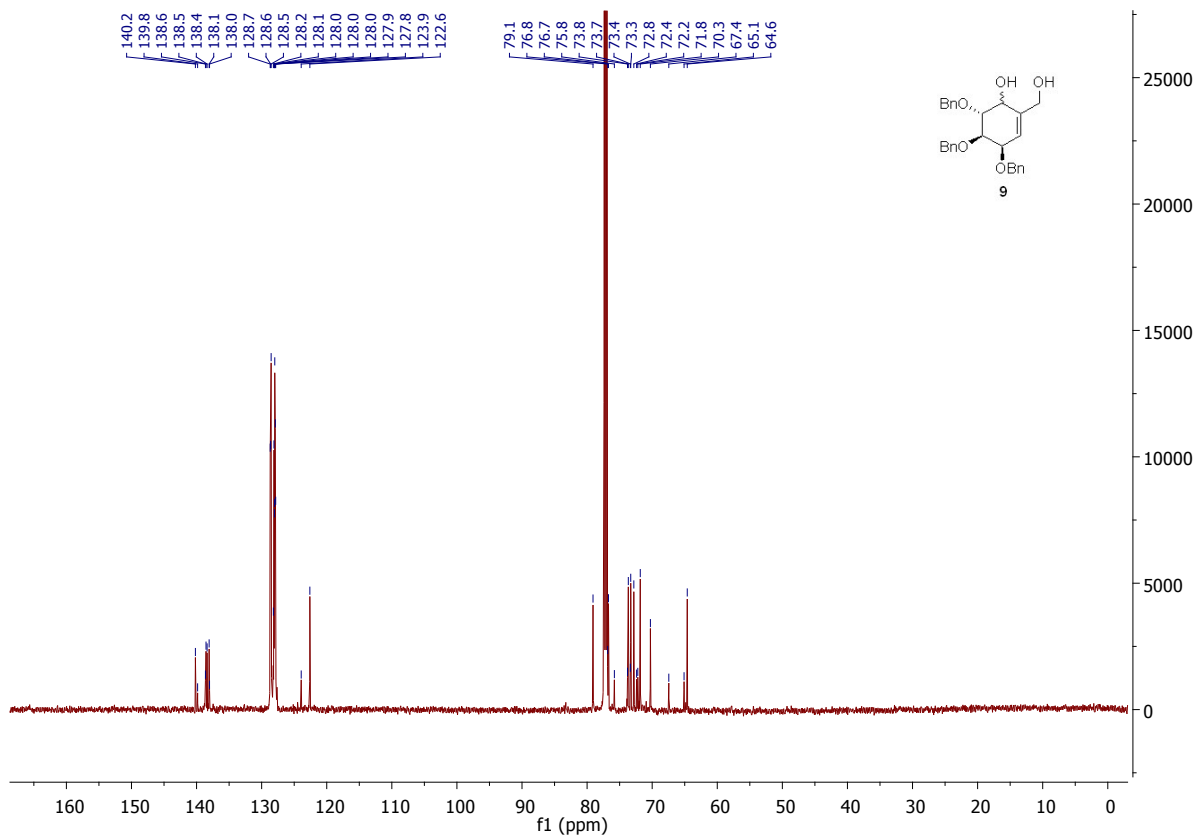
**<sup>1</sup>H-NMR Spectrum of Compound (6S)-5 (CDCl<sub>3</sub>)**



**<sup>13</sup>C-NMR Spectrum of Compound (6S)-5 (CDCl<sub>3</sub>)**

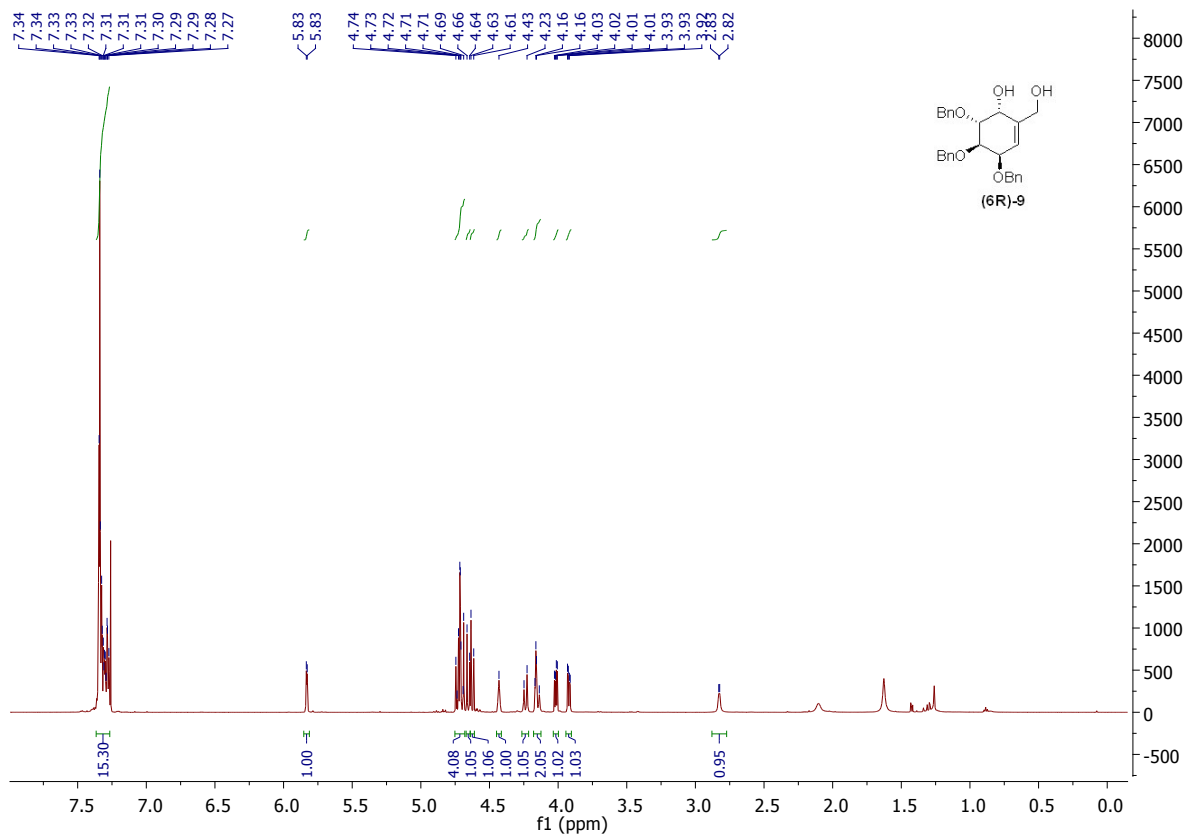


**<sup>1</sup>H-NMR Spectrum of Compound 9 (CDCl<sub>3</sub>)**

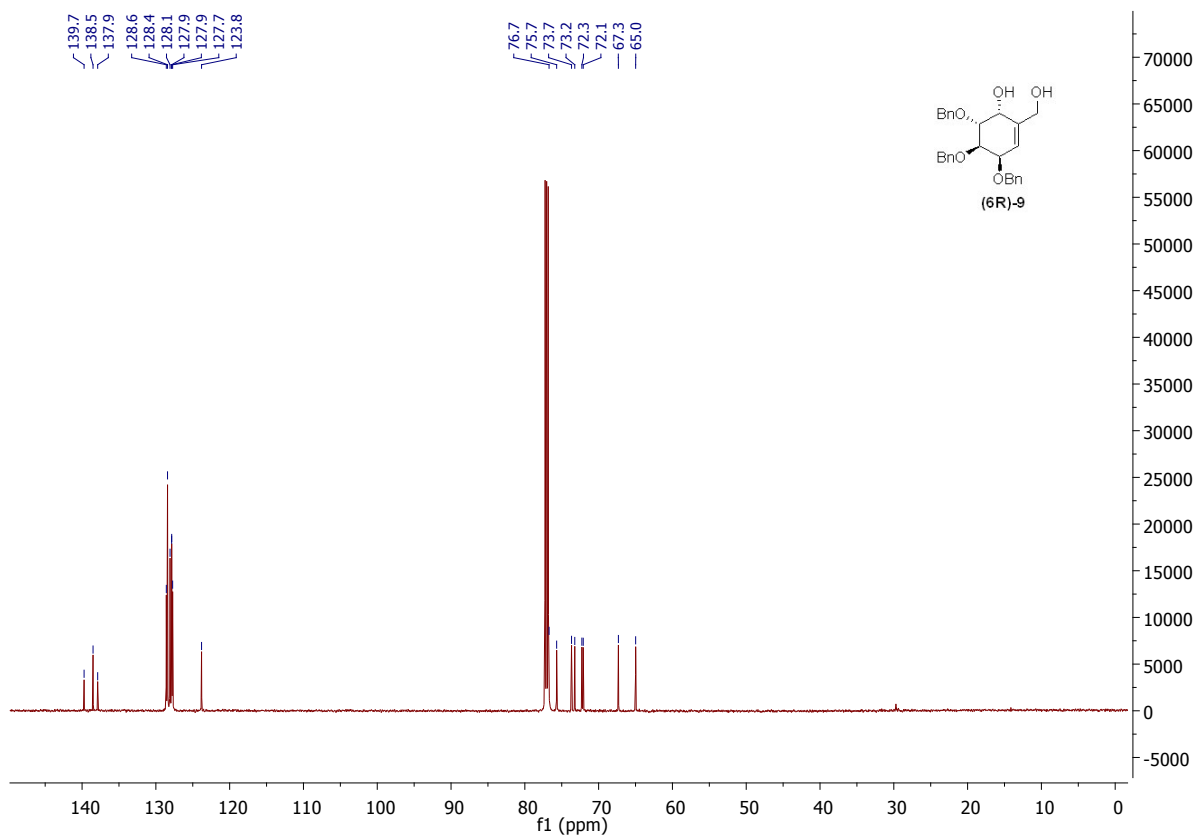


**<sup>13</sup>C-NMR Spectrum of Compound 9 (CDCl<sub>3</sub>)**

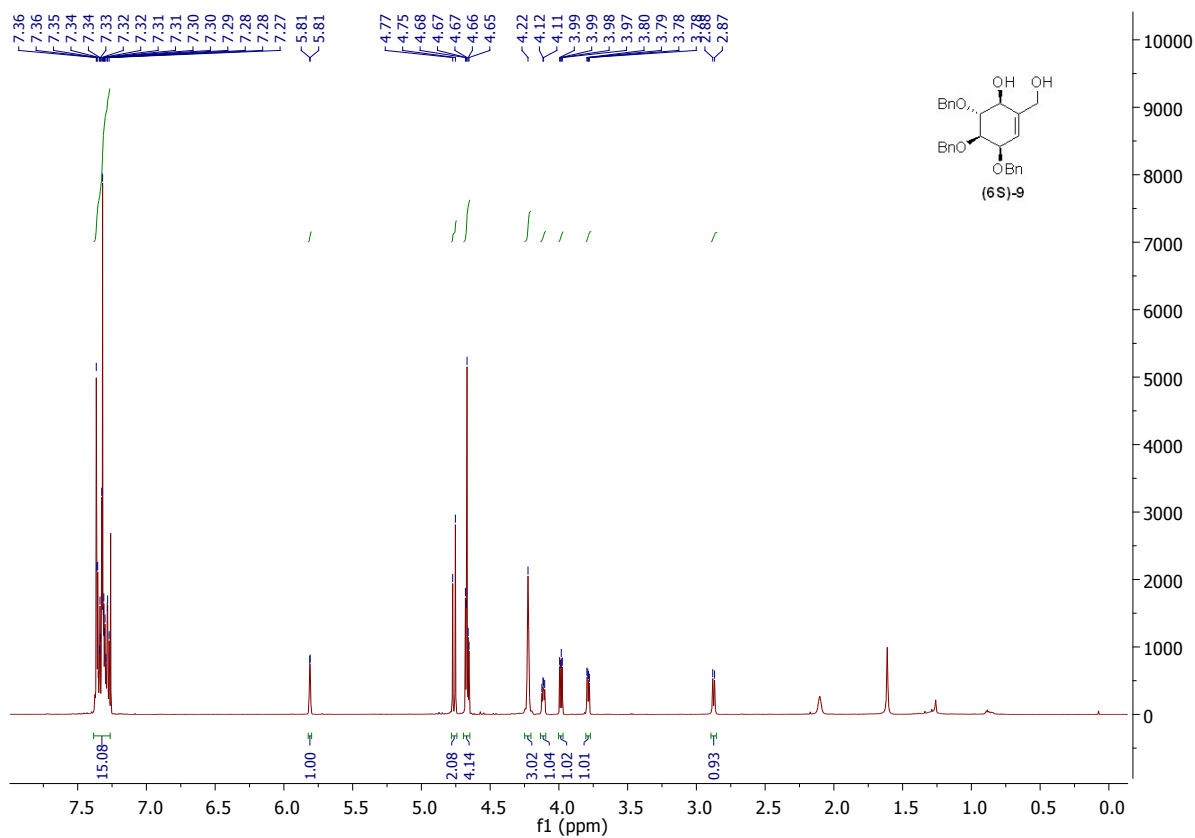




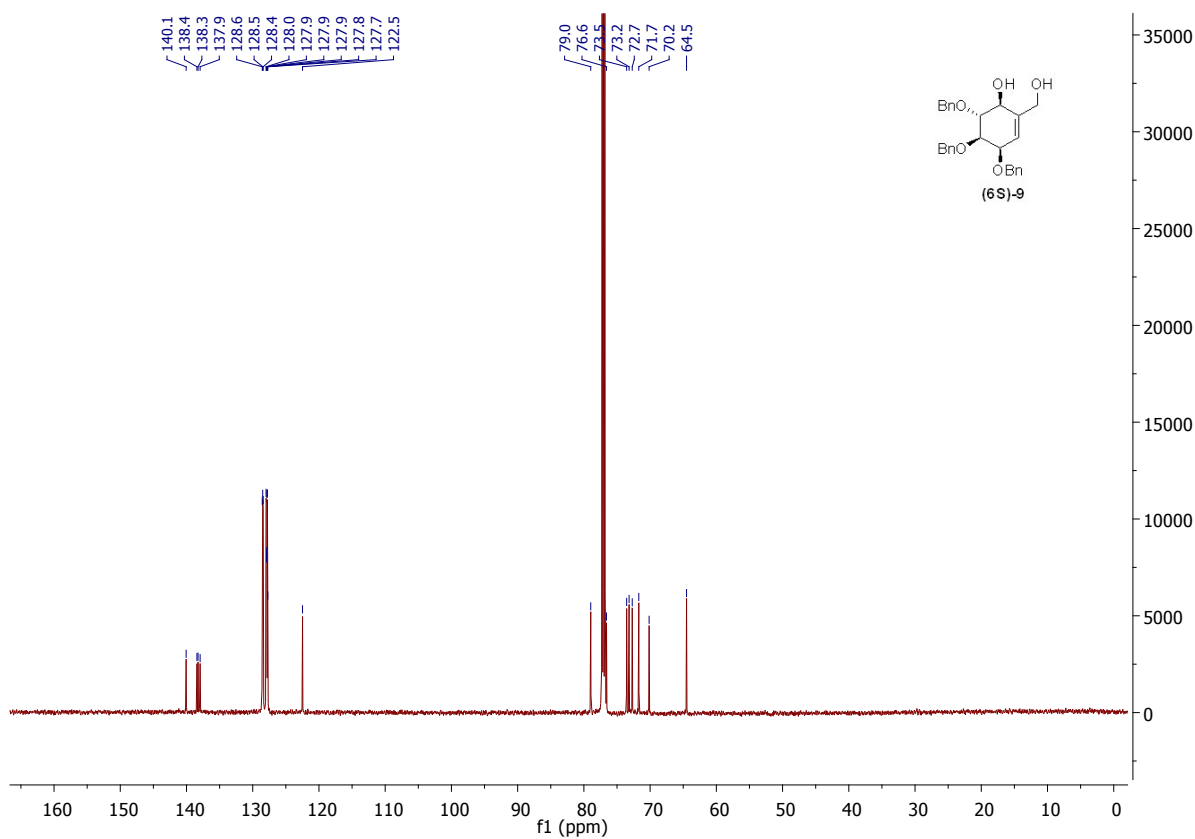
<sup>1</sup>H-NMR Spectrum of Compound (6R)-9 (CDCl<sub>3</sub>)



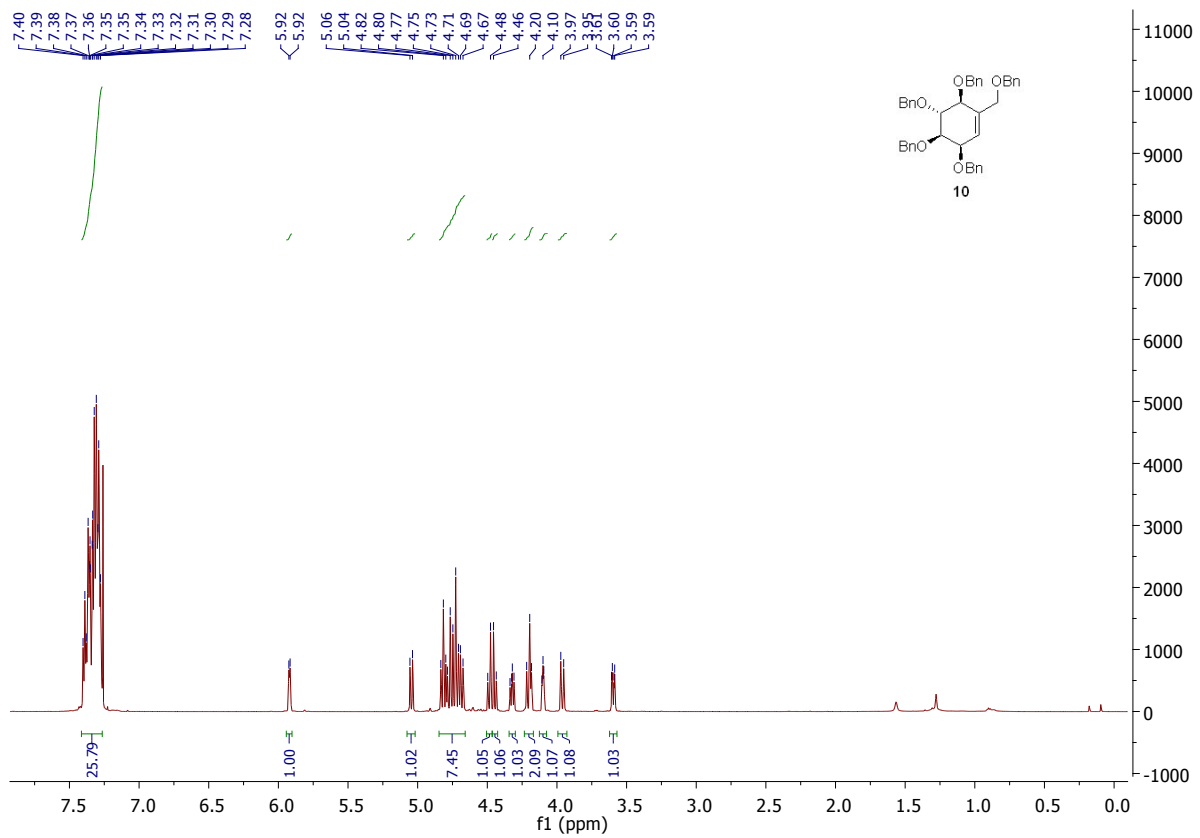
<sup>13</sup>C-NMR Spectrum of Compound (6R)-9 (CDCl<sub>3</sub>)



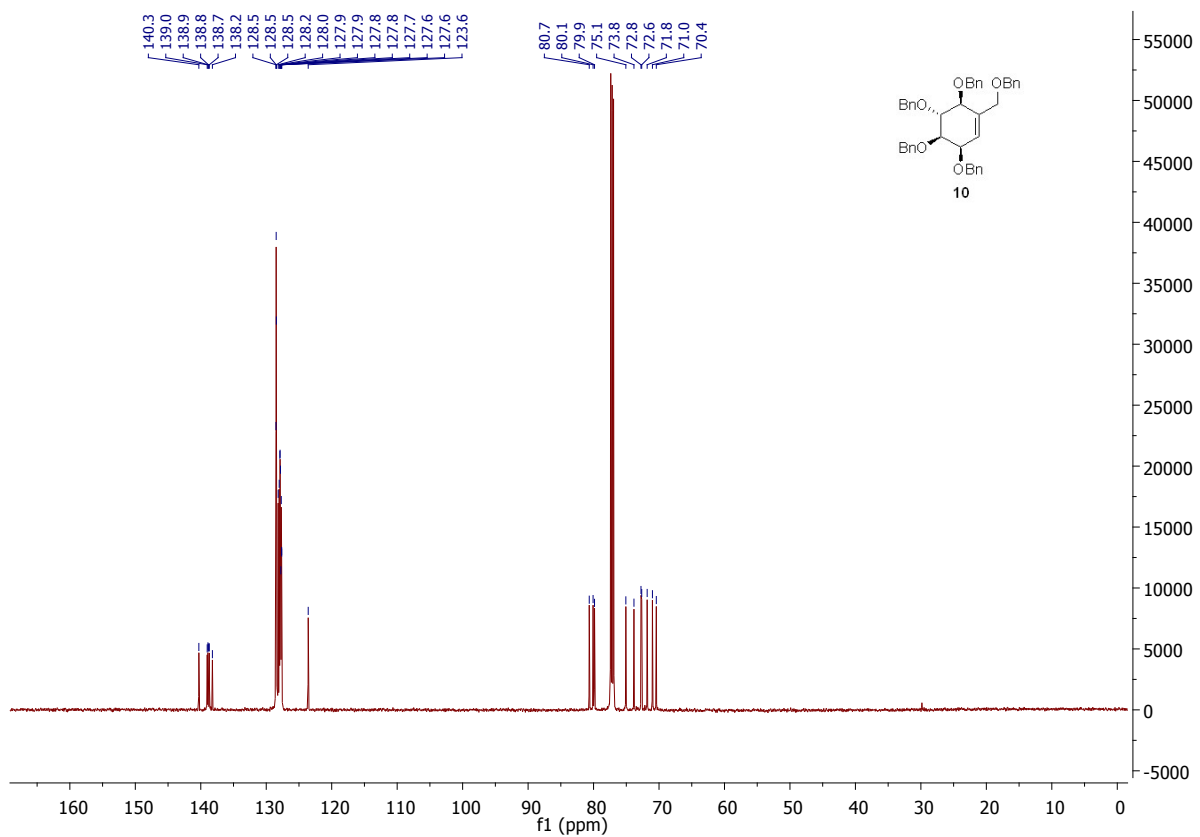
**<sup>1</sup>H-NMR Spectrum of Compound (6S)-9 (CDCl<sub>3</sub>)**



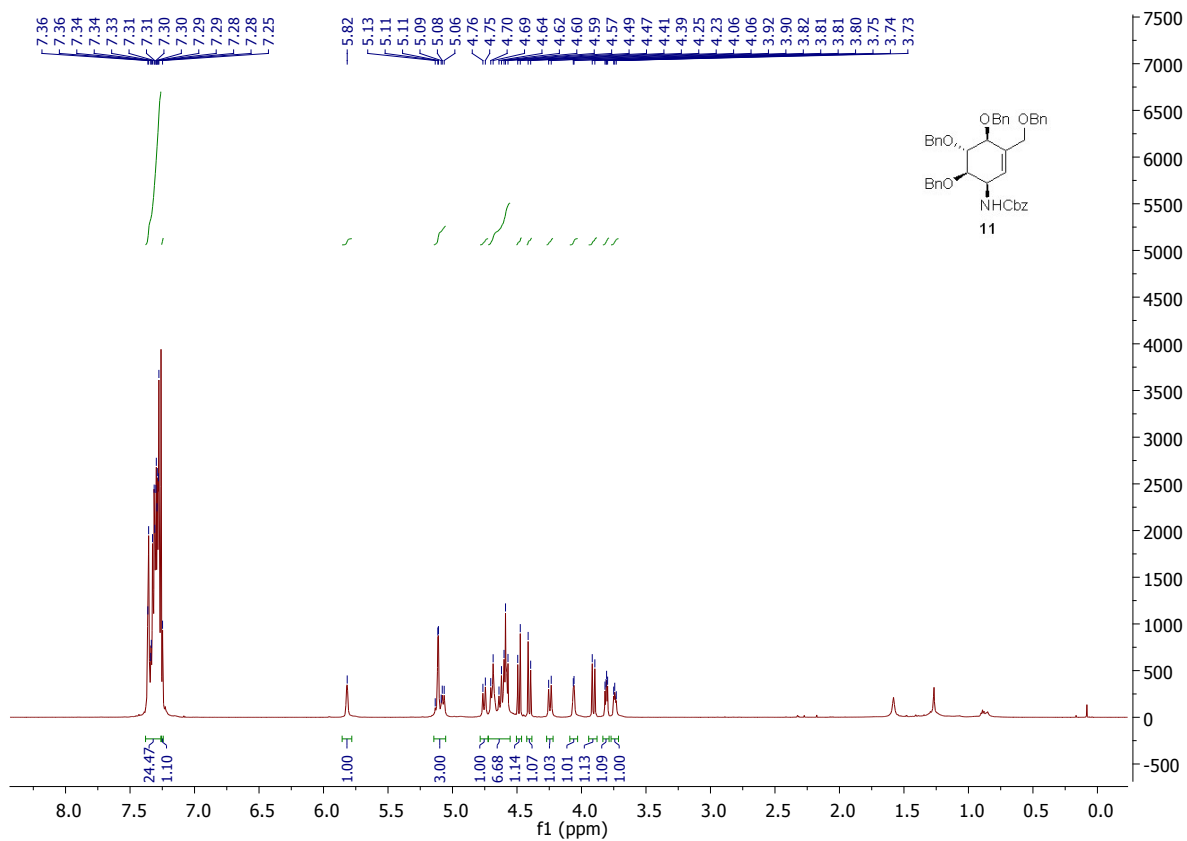
**<sup>13</sup>C-NMR Spectrum of Compound (6S)-9 (CDCl<sub>3</sub>)**



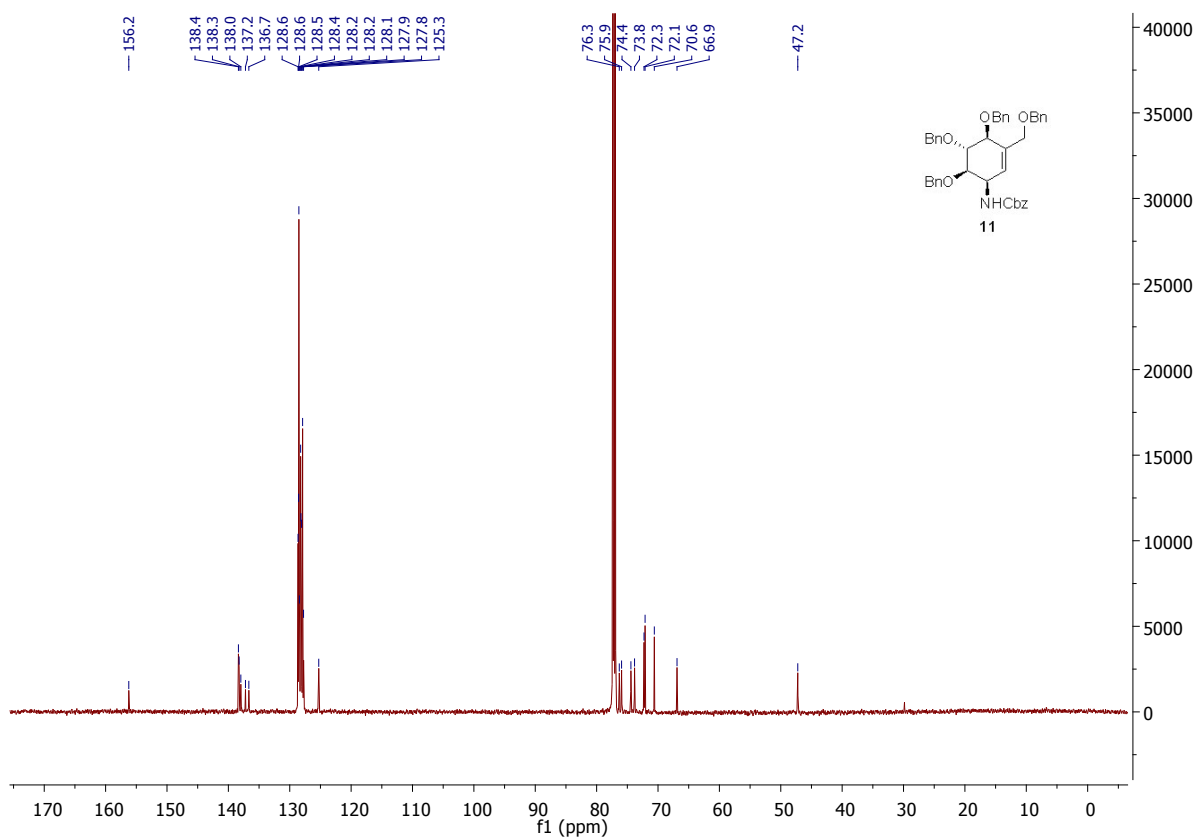
<sup>1</sup>H-NMR Spectrum of Compound 10 (CDCl<sub>3</sub>)



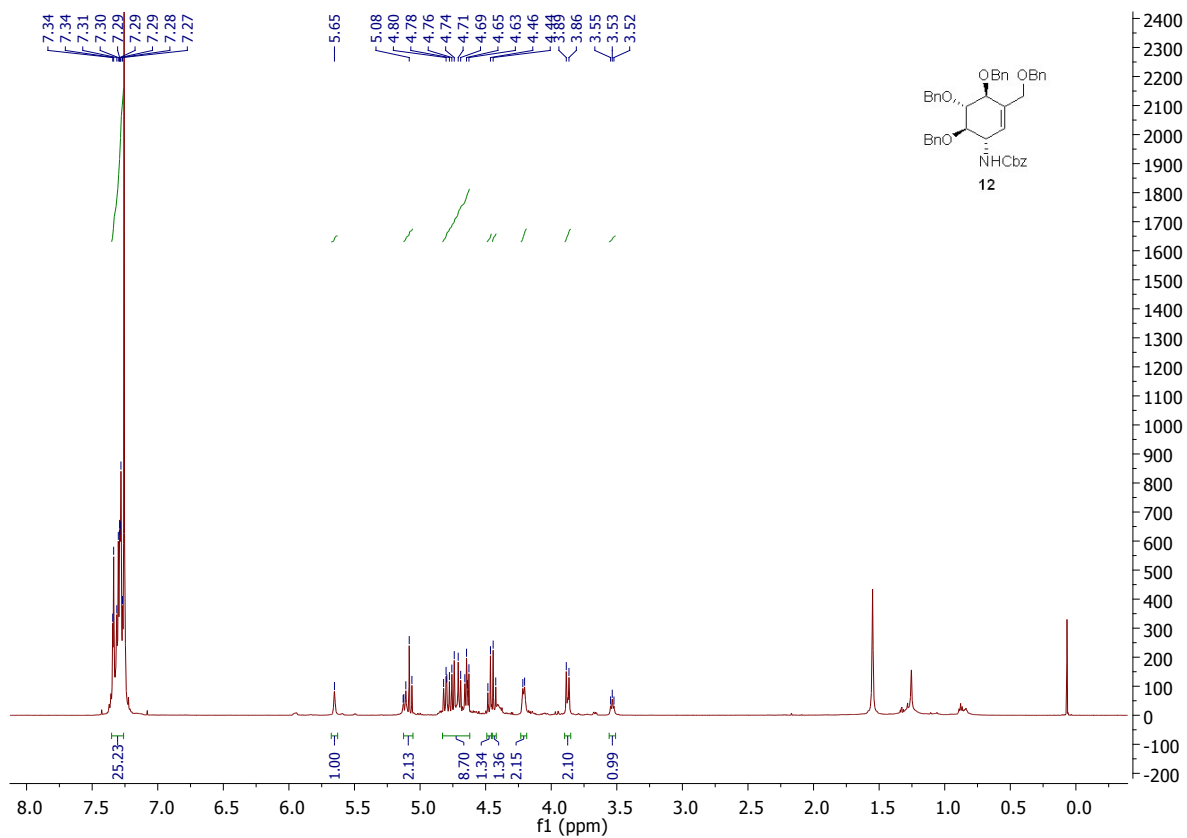
<sup>13</sup>C-NMR Spectrum of Compound 10 (CDCl<sub>3</sub>)



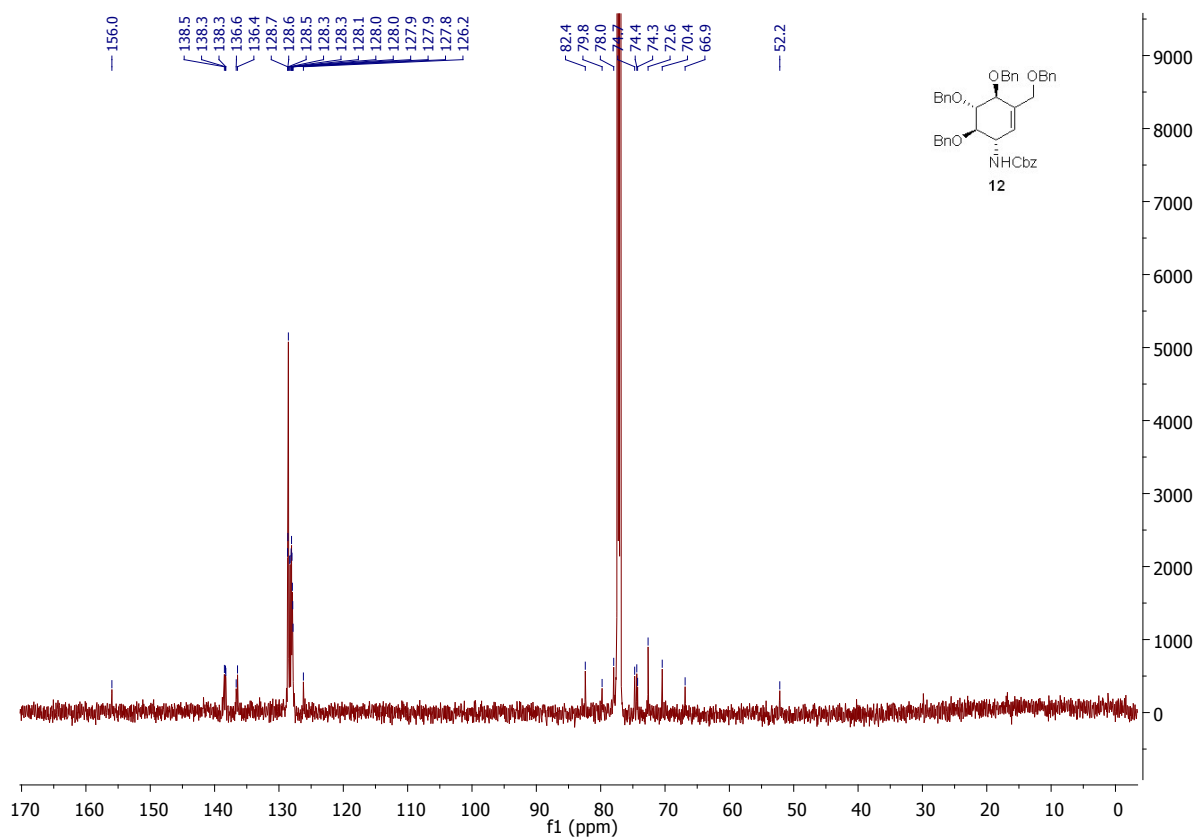
**<sup>1</sup>H-NMR Spectrum of Compound 11 (CDCl<sub>3</sub>)**



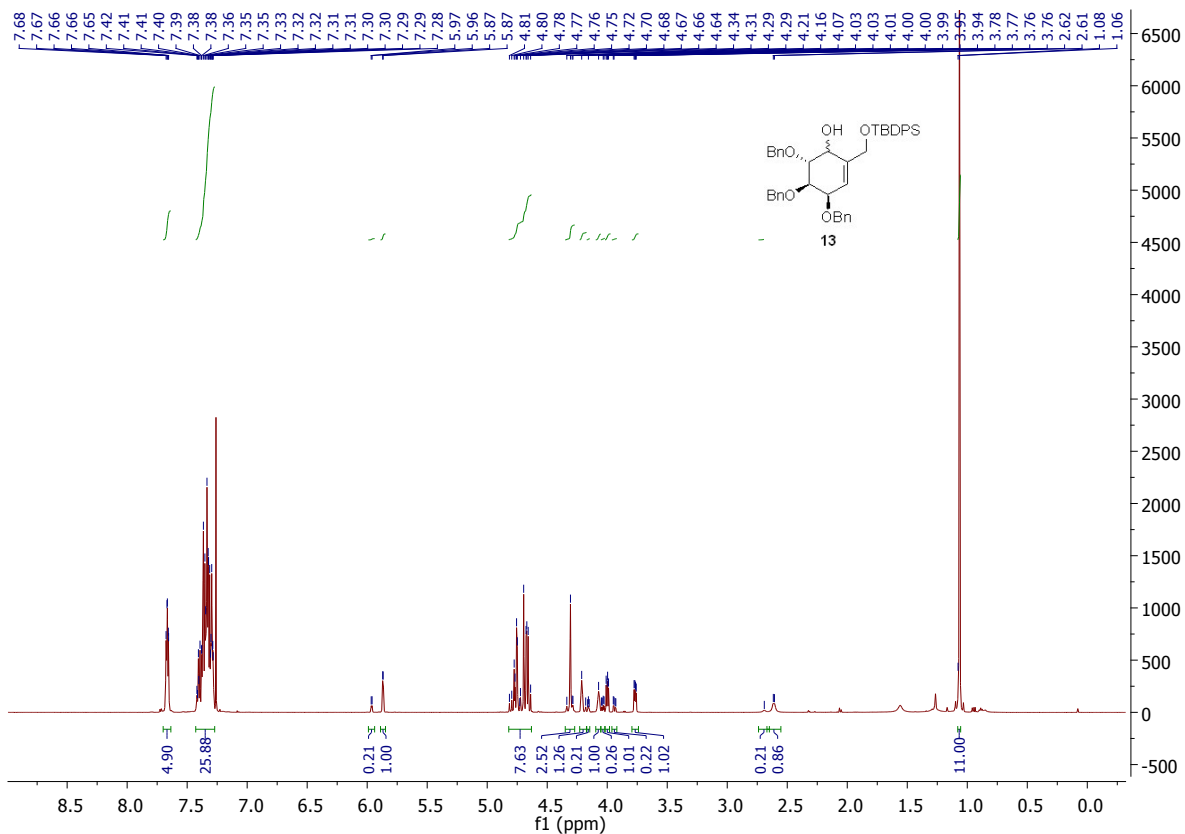
**<sup>13</sup>C-NMR Spectrum of Compound 11 (CDCl<sub>3</sub>)**



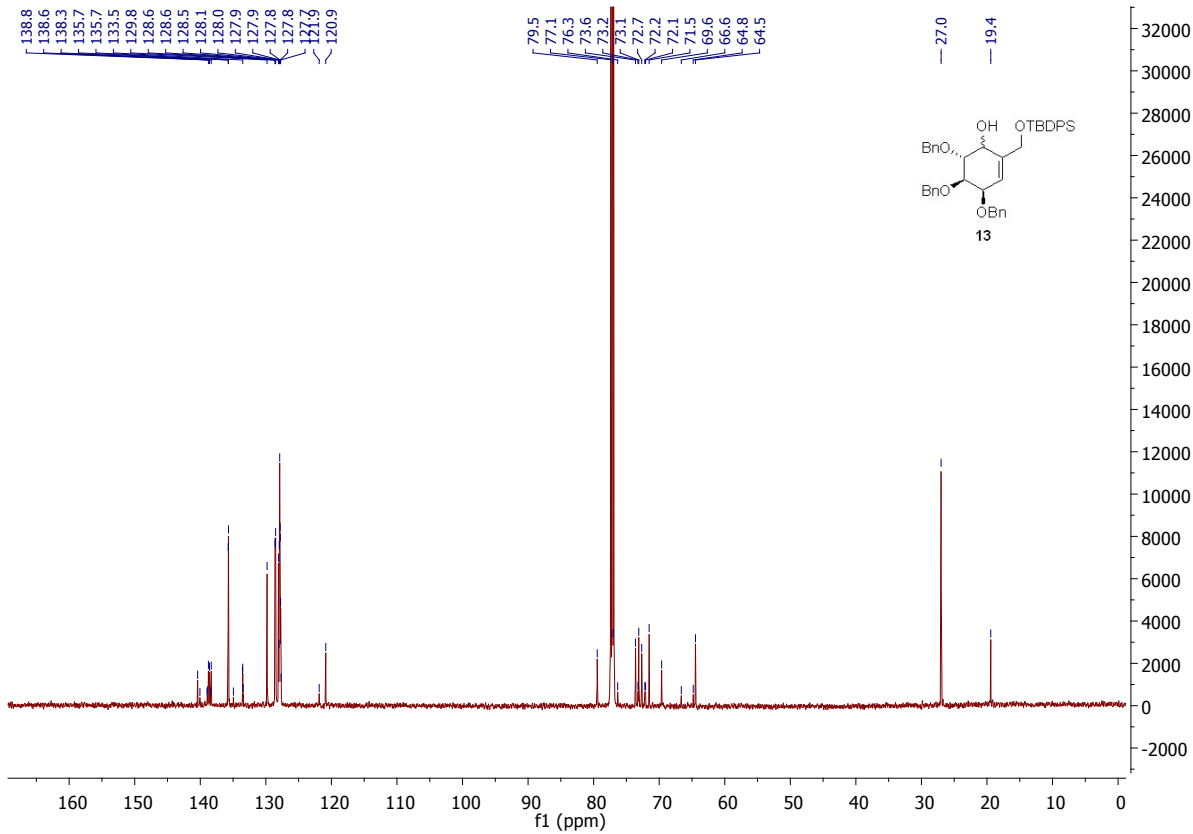
<sup>1</sup>H-NMR Spectrum of Compound 12 (CDCl<sub>3</sub>)



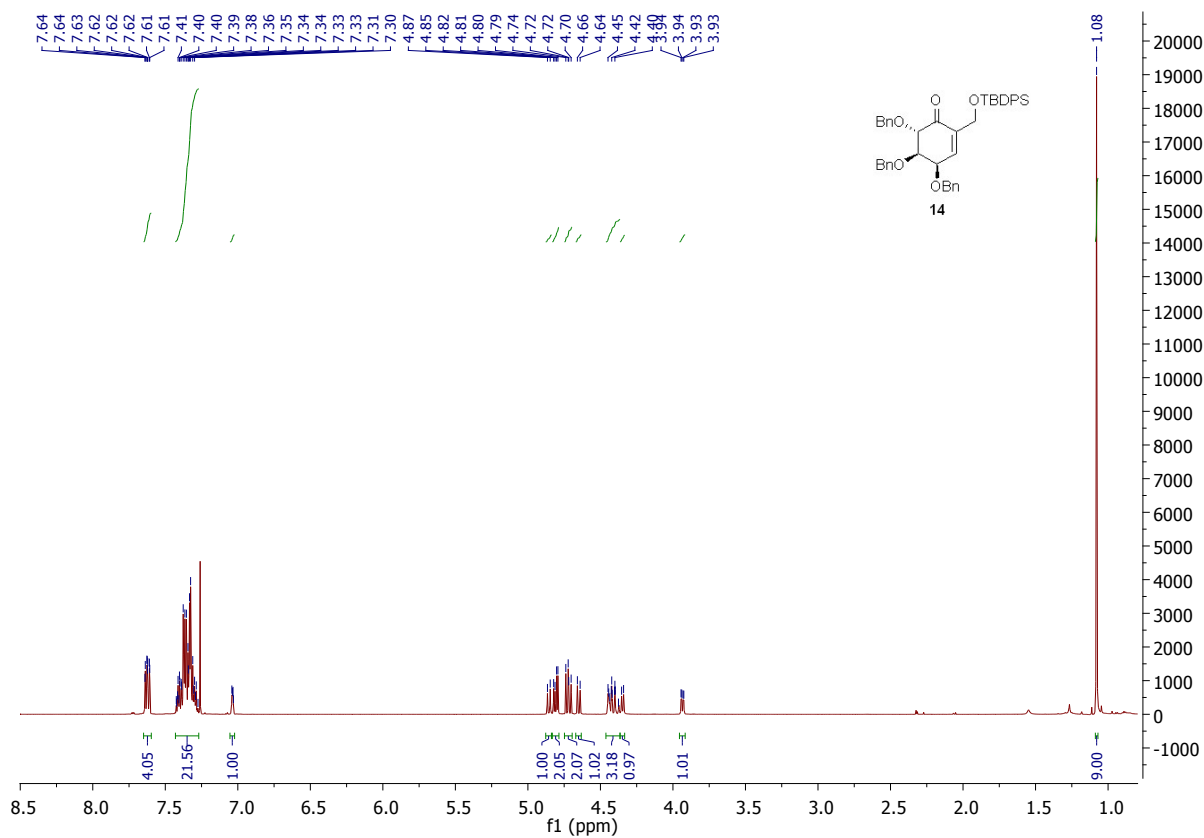
<sup>13</sup>C-NMR Spectrum of Compound 12 (CDCl<sub>3</sub>)



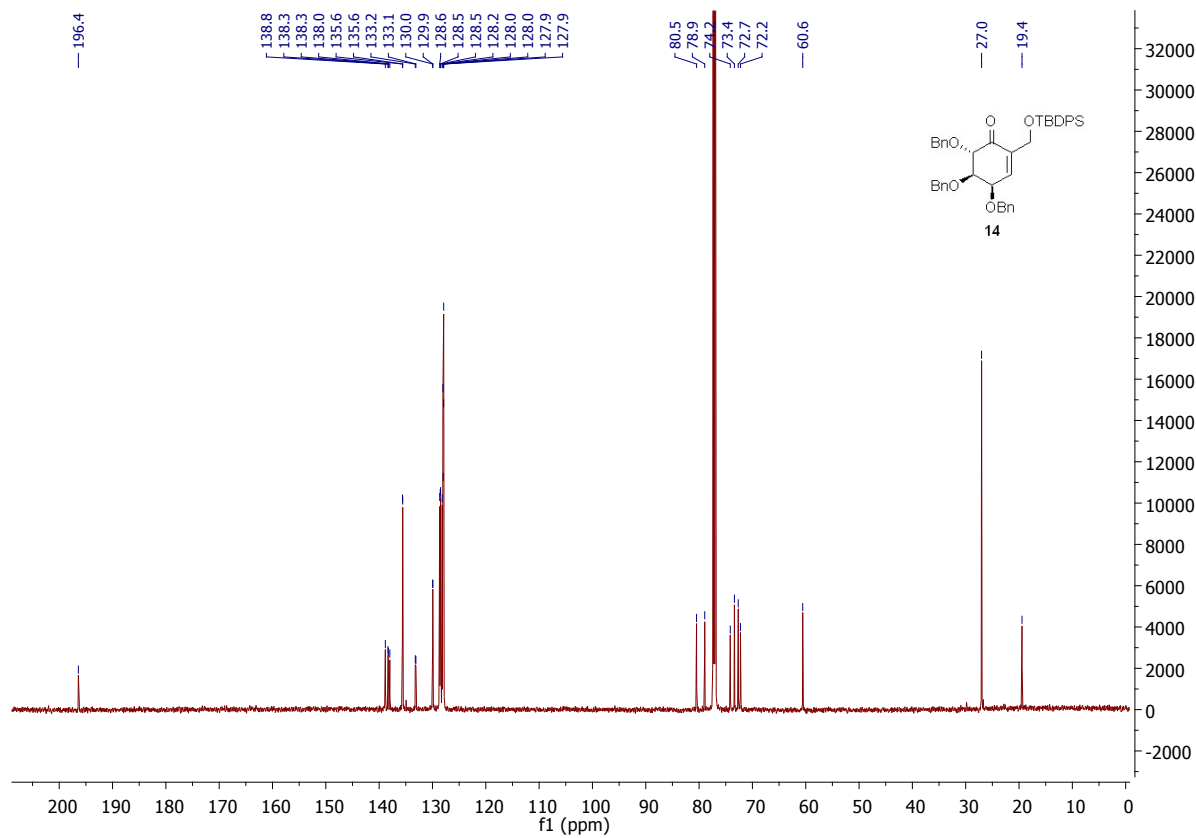
**<sup>1</sup>H-NMR Spectrum of Compound 13 (CDCl<sub>3</sub>)**



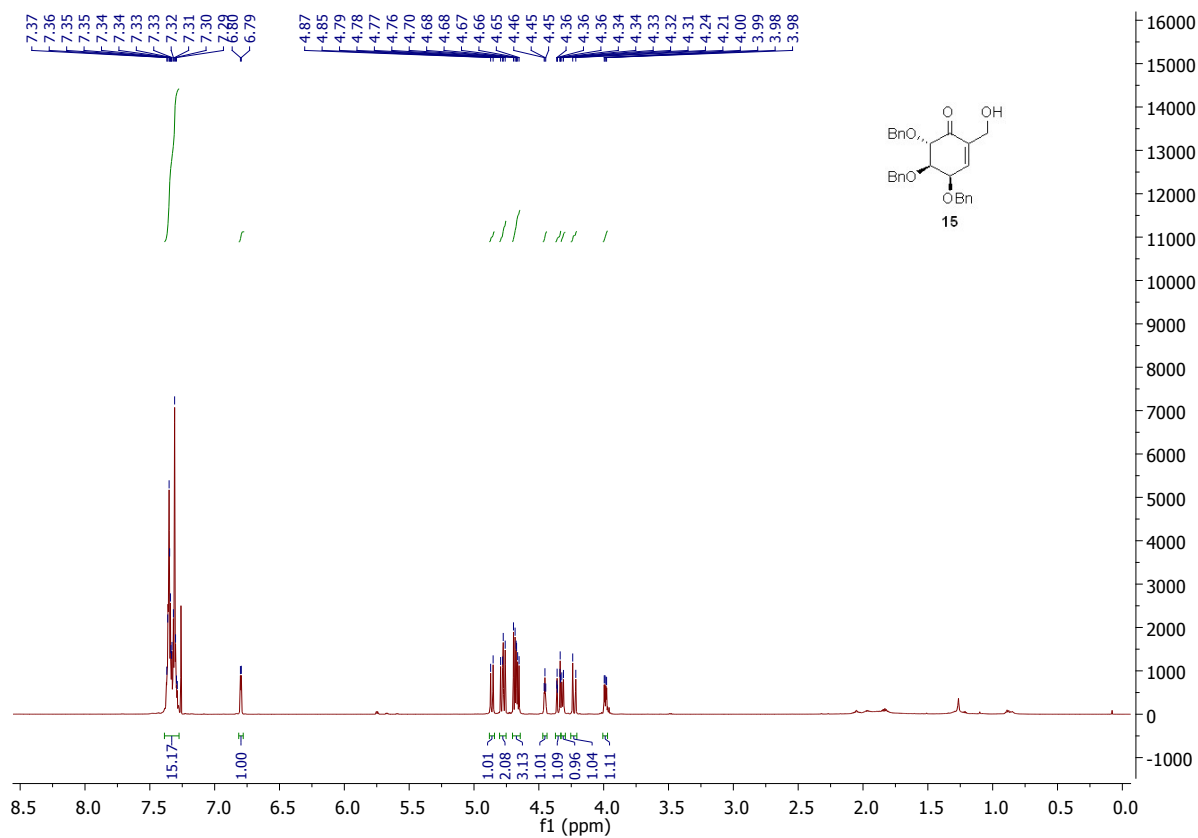
**<sup>13</sup>C-NMR Spectrum of Compound 13 (CDCl<sub>3</sub>)**



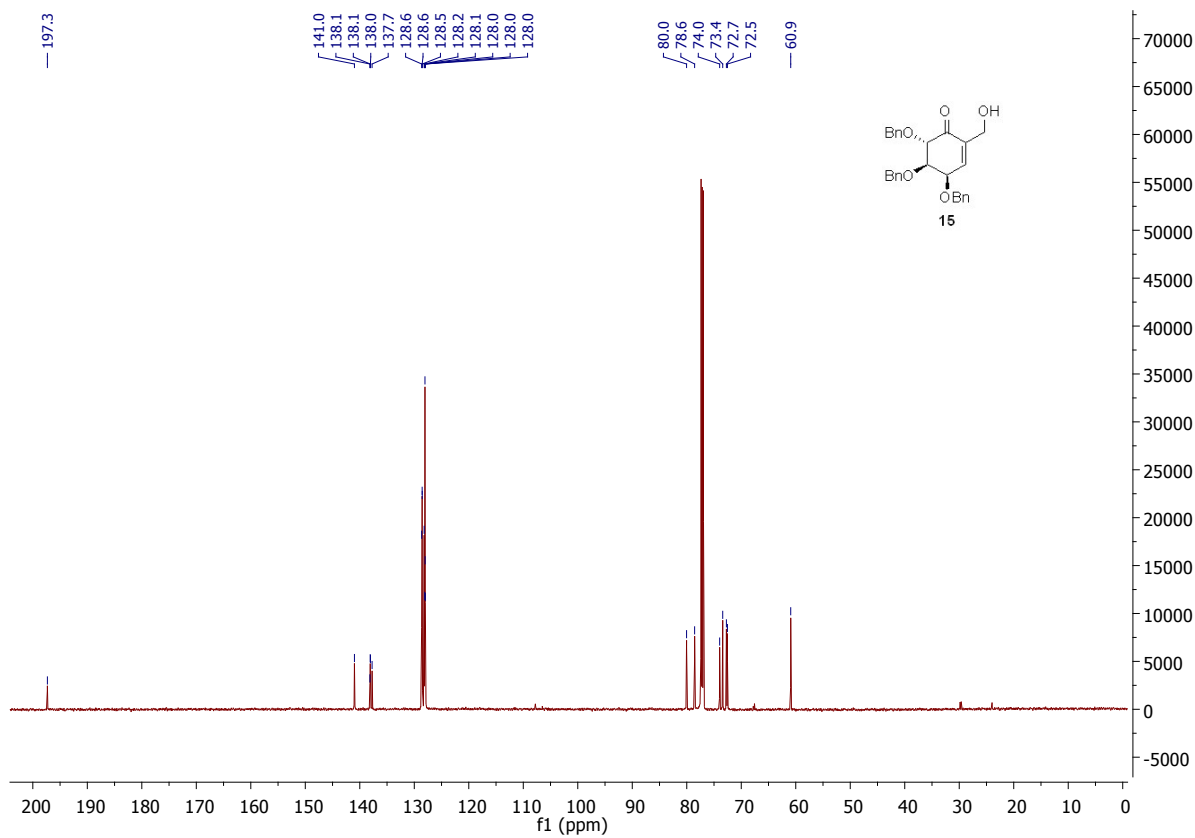
<sup>1</sup>H-NMR Spectrum of Compound 14 (CDCl<sub>3</sub>)



<sup>13</sup>C-NMR Spectrum of Compound 14 (CDCl<sub>3</sub>)

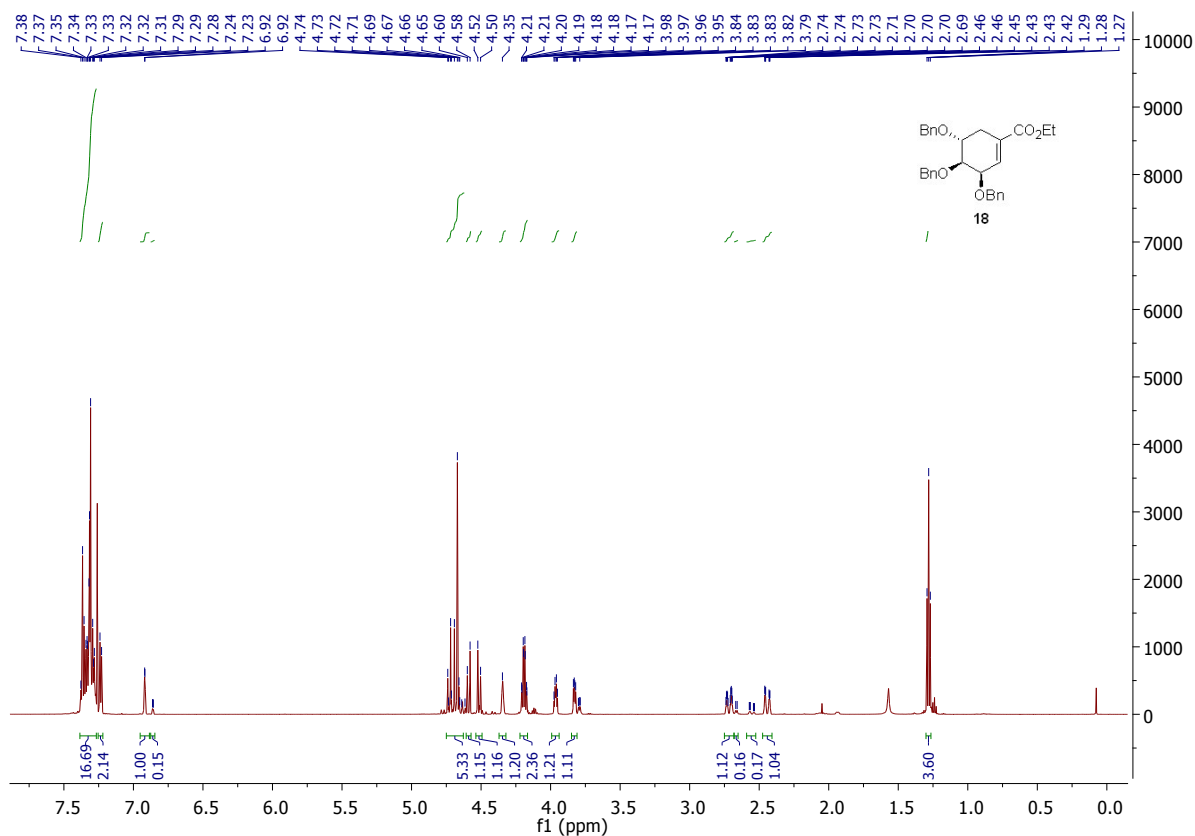


**<sup>1</sup>H-NMR Spectrum of Compound 15 (CDCl<sub>3</sub>)**

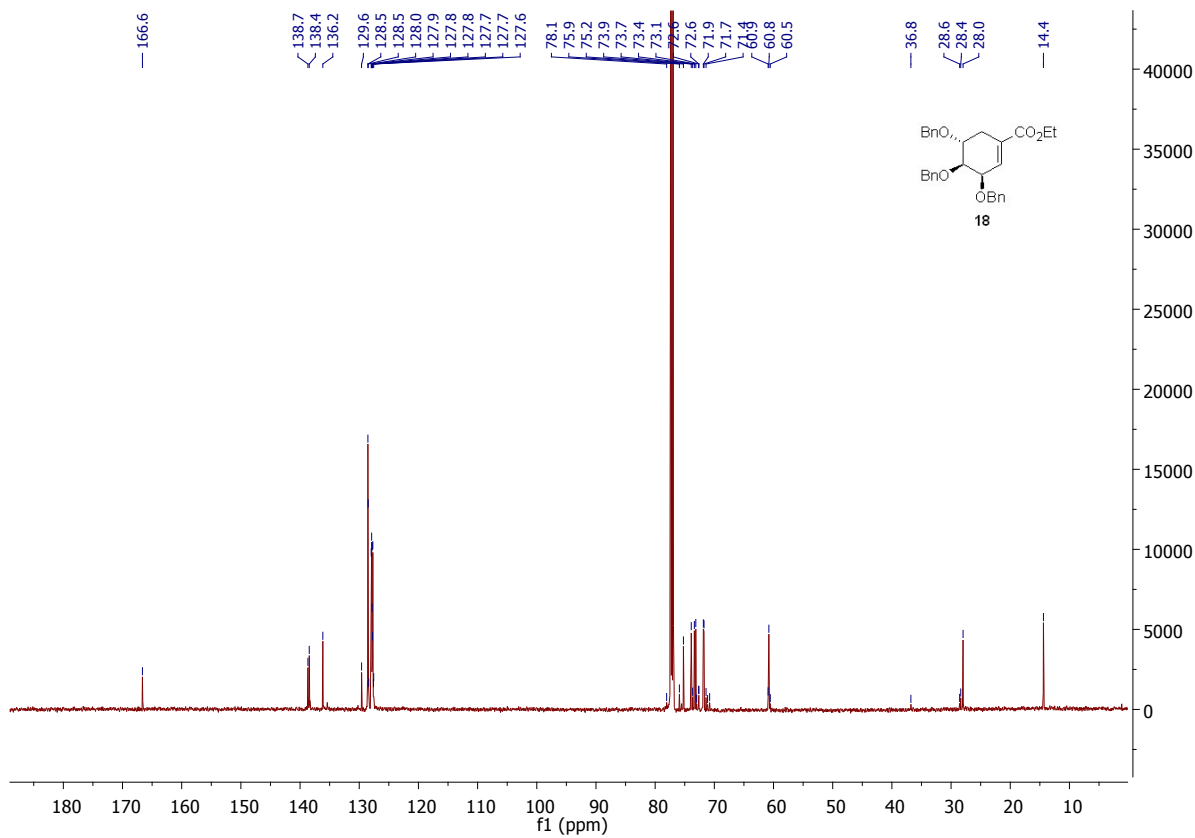


**<sup>13</sup>C-NMR Spectrum of Compound 15 (CDCl<sub>3</sub>)**

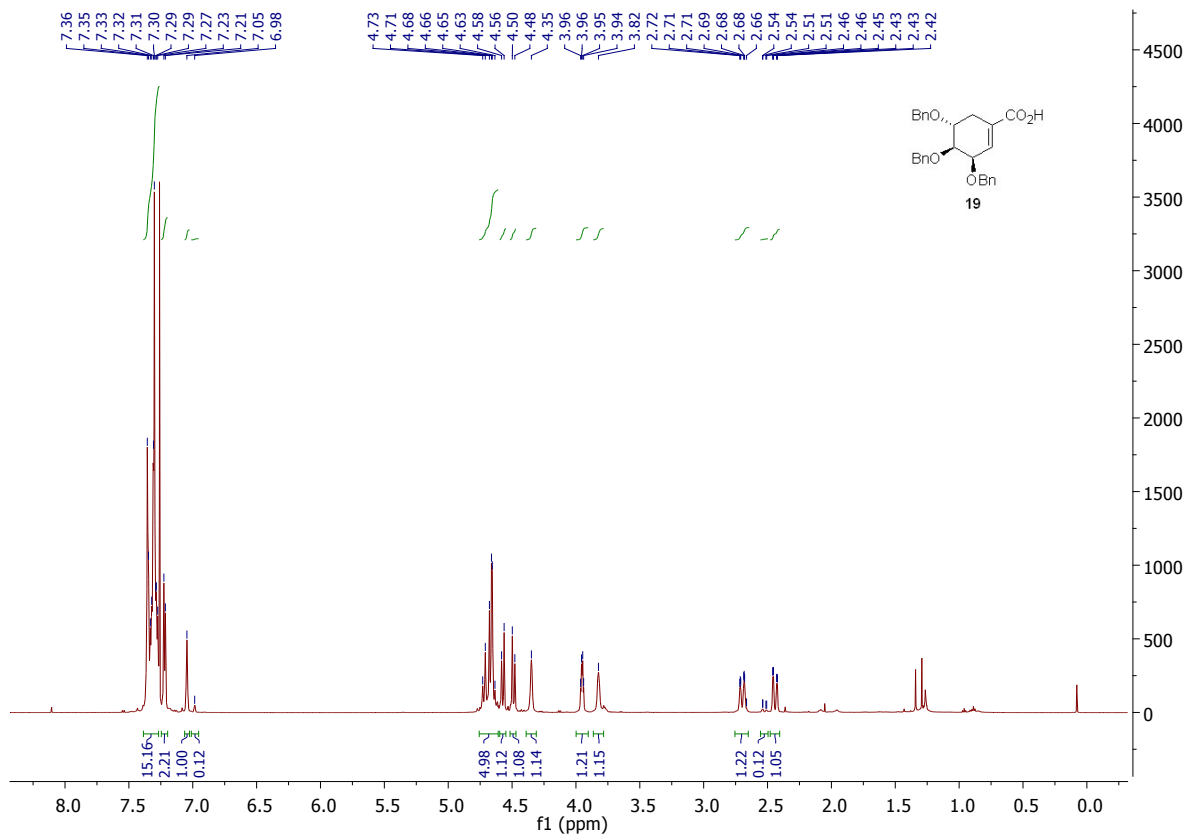




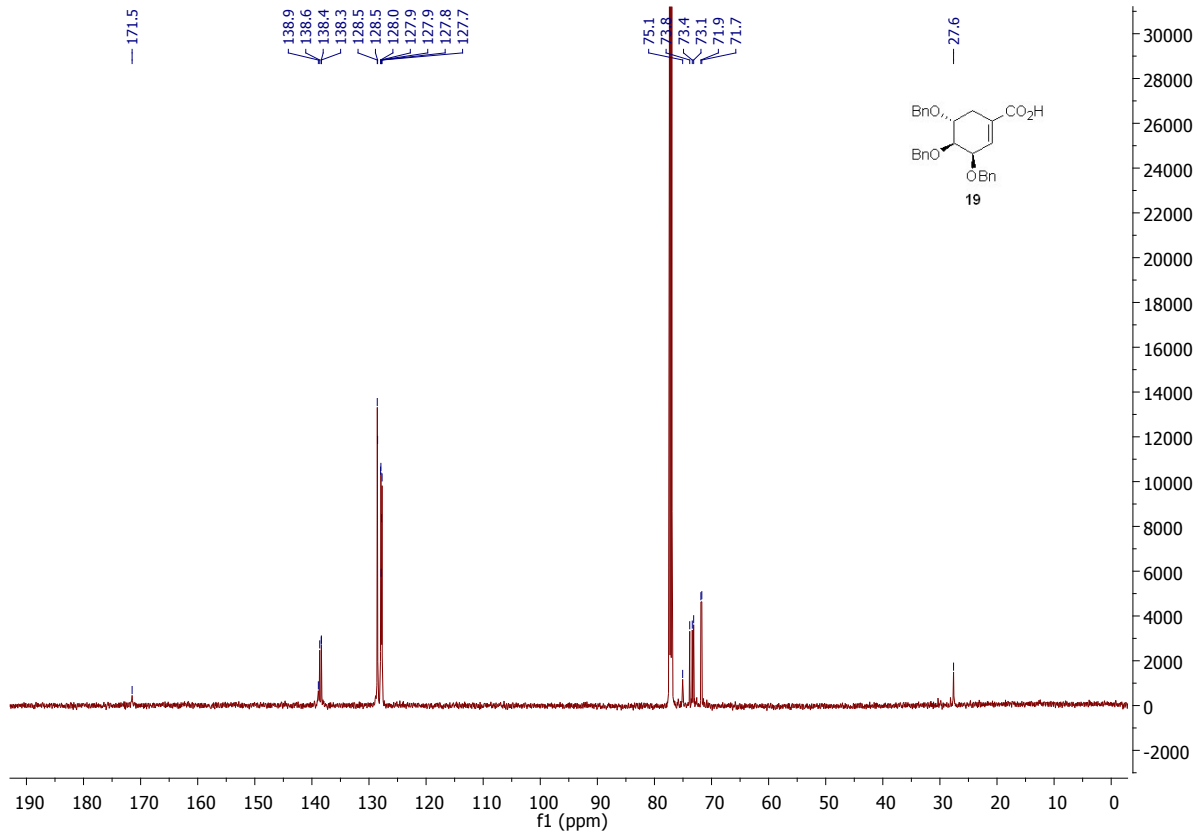
**<sup>1</sup>H-NMR Spectrum of Compound **18** (CDCl<sub>3</sub>)**



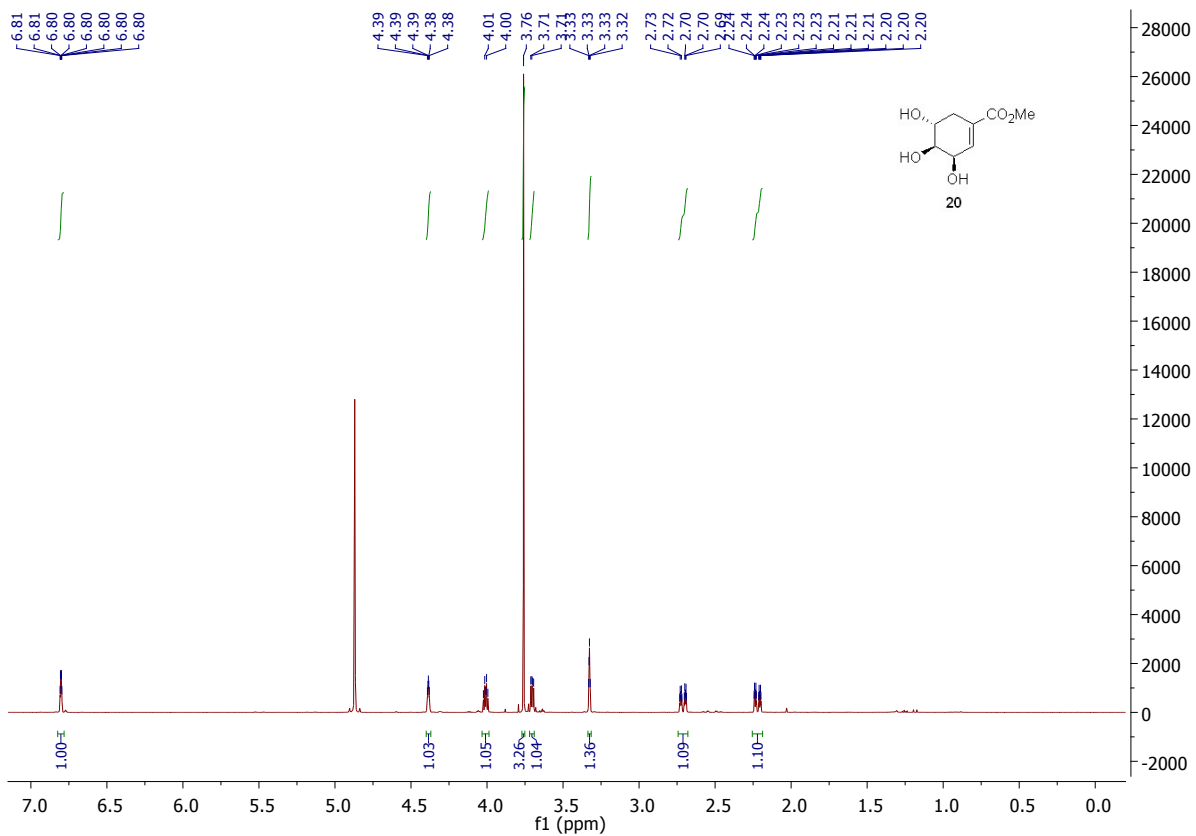
**<sup>13</sup>C-NMR Spectrum of Compound **18** (CDCl<sub>3</sub>)**



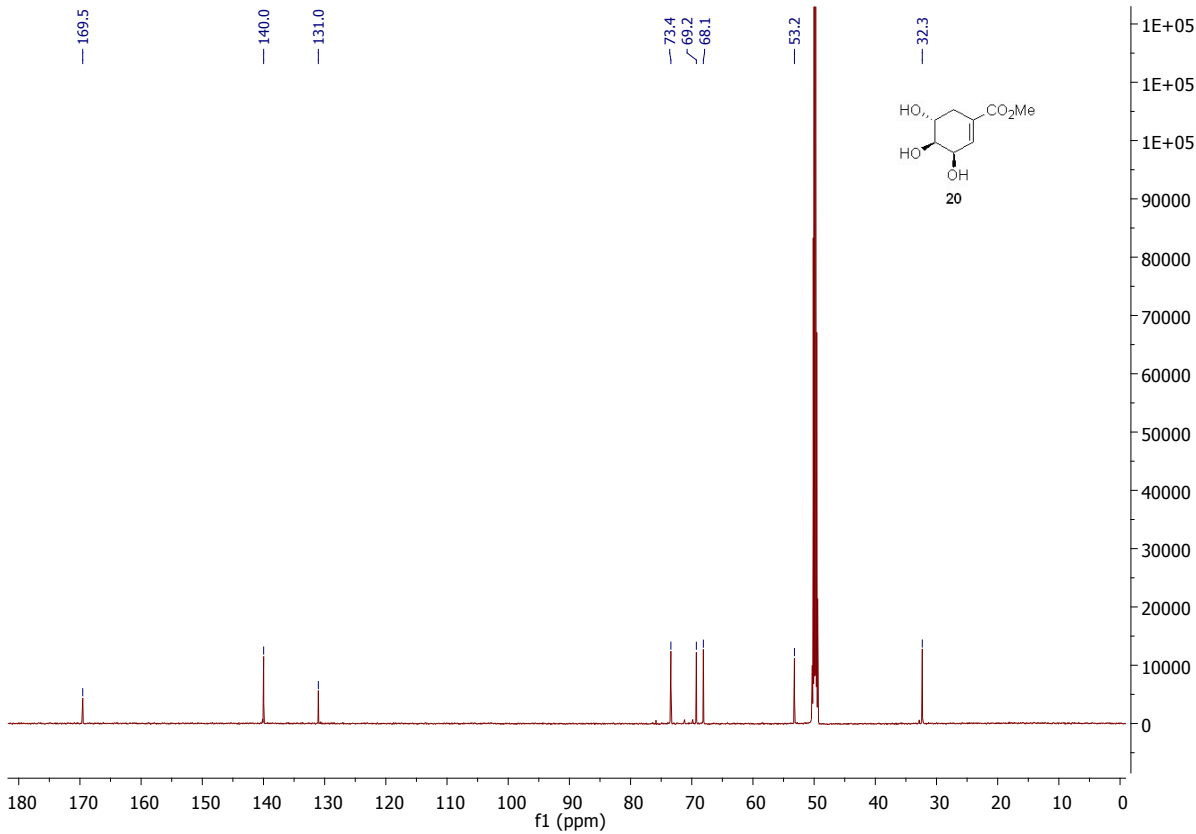
**<sup>1</sup>H-NMR Spectrum of Compound 19 (CDCl<sub>3</sub>)**



**<sup>13</sup>C-NMR Spectrum of Compound 19 (CDCl<sub>3</sub>)**



<sup>1</sup>H-NMR Spectrum of Compound 19 (MeOD)



<sup>13</sup>C-NMR Spectrum of Compound 20 (MeOD)