

Supporting Information

*for*

**Oxidative Cyclization of Kynuramine and Ynones Enabling Collective Syntheses  
of Pyridoacridine Alkaloids**

Dongfang Jiang and Shaozhong Wang\*

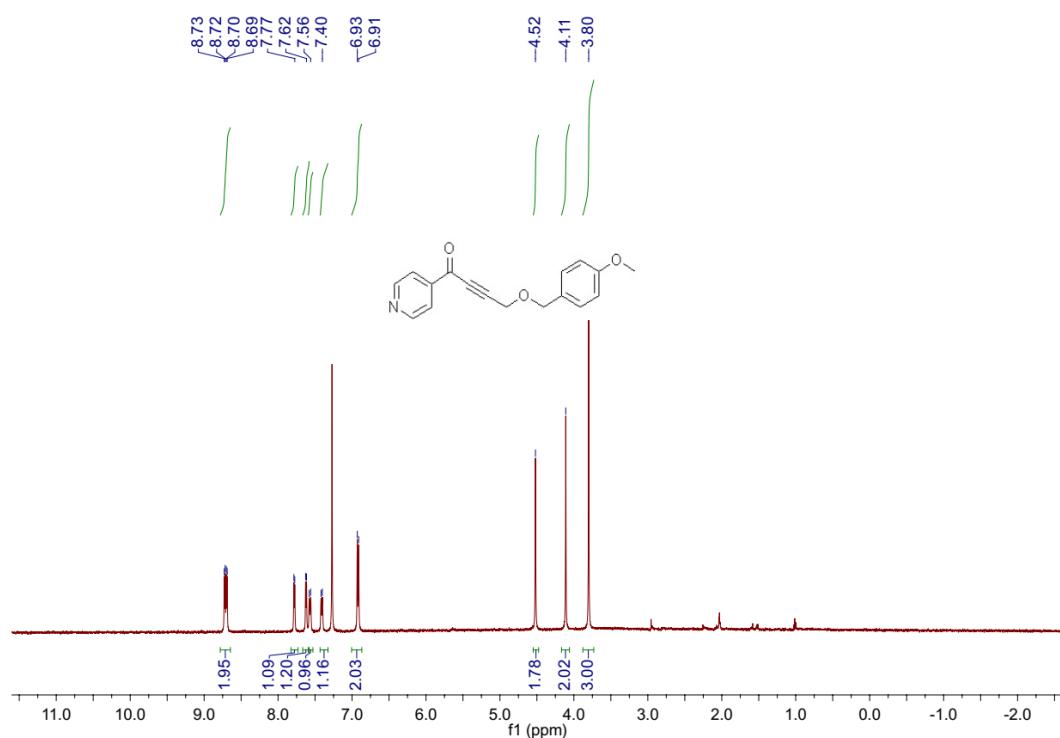
*State Key Laboratory of Coordination Chemistry, Jiangsu Key Laboratory of Advanced Organic Materials, School of Chemistry and Chemical Engineering, Nanjing University, Nanjing 210023, China.*

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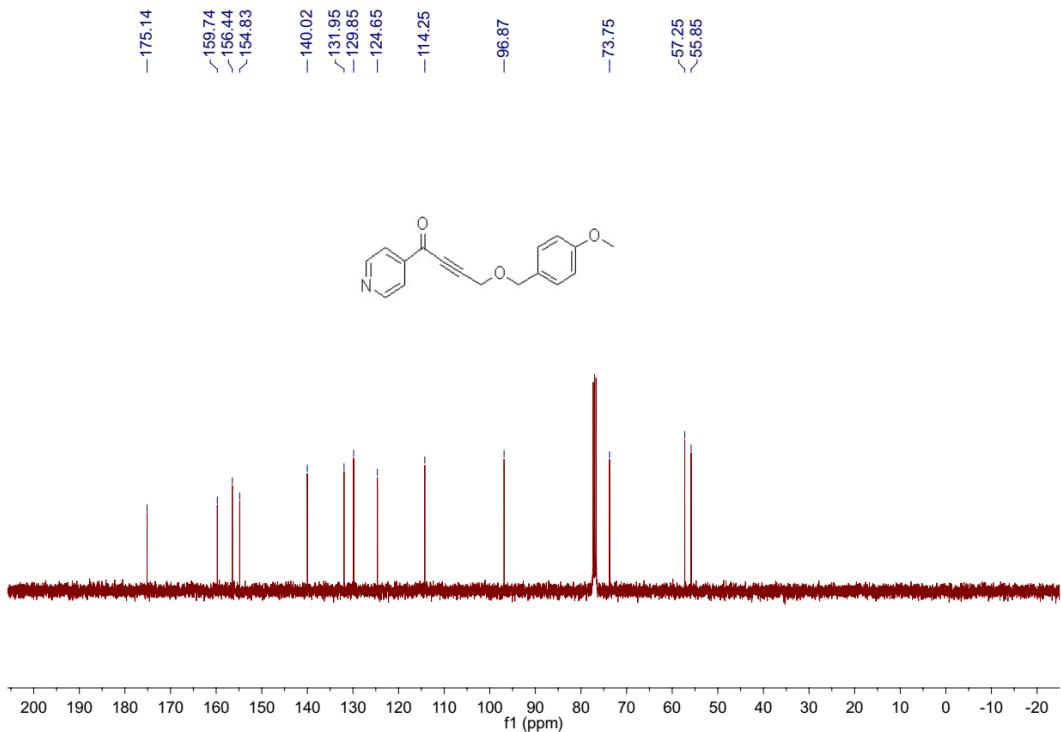
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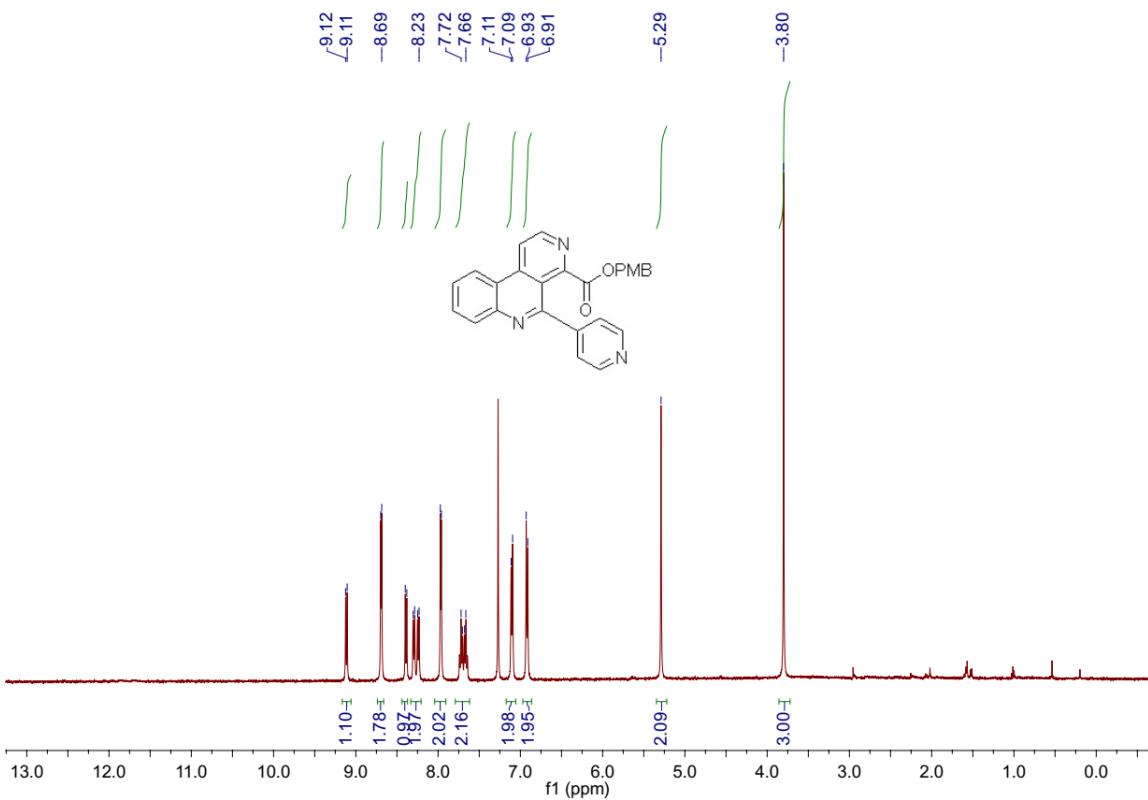
## 1. Copies of NMR spectra



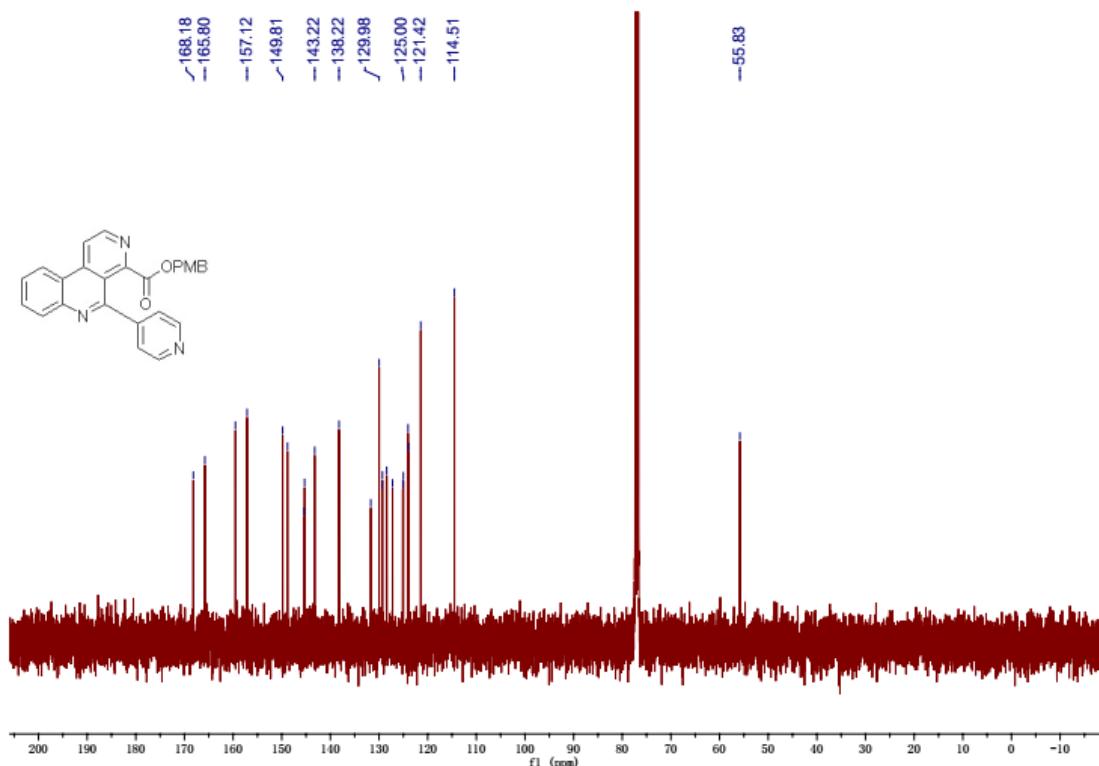
<sup>1</sup>H NMR Spectrum of Compound 10a (400 MHz, CDCl<sub>3</sub>)



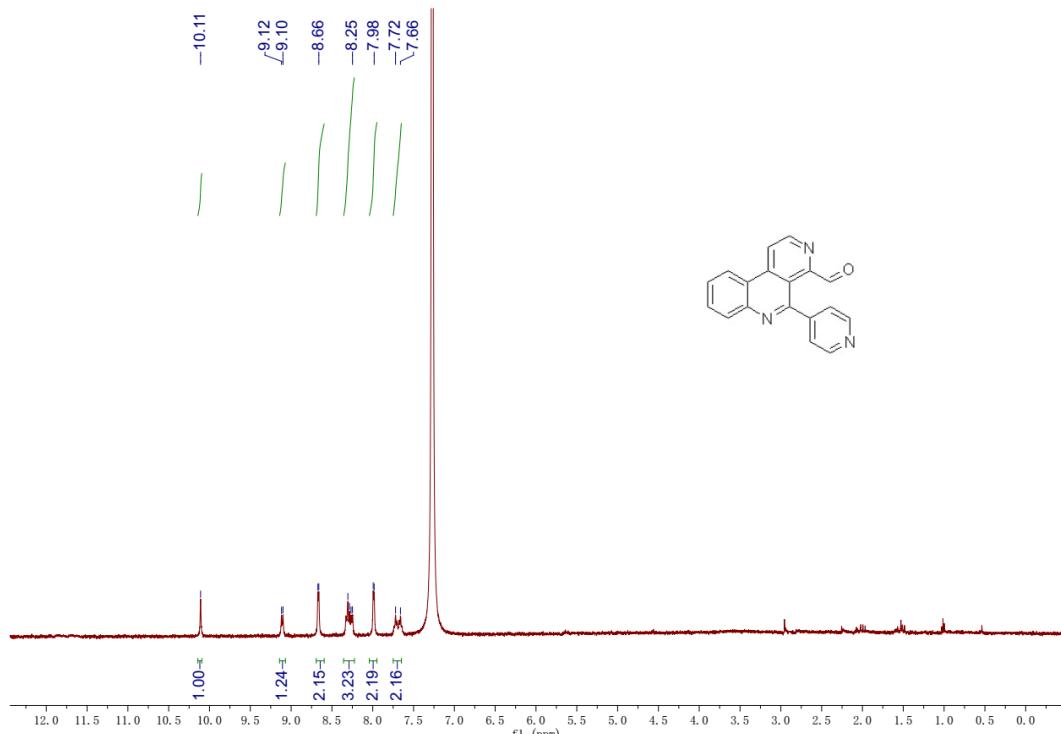
<sup>13</sup>C{<sup>1</sup>H} NMR Spectrum of Compound 10a (100 MHz, CDCl<sub>3</sub>)



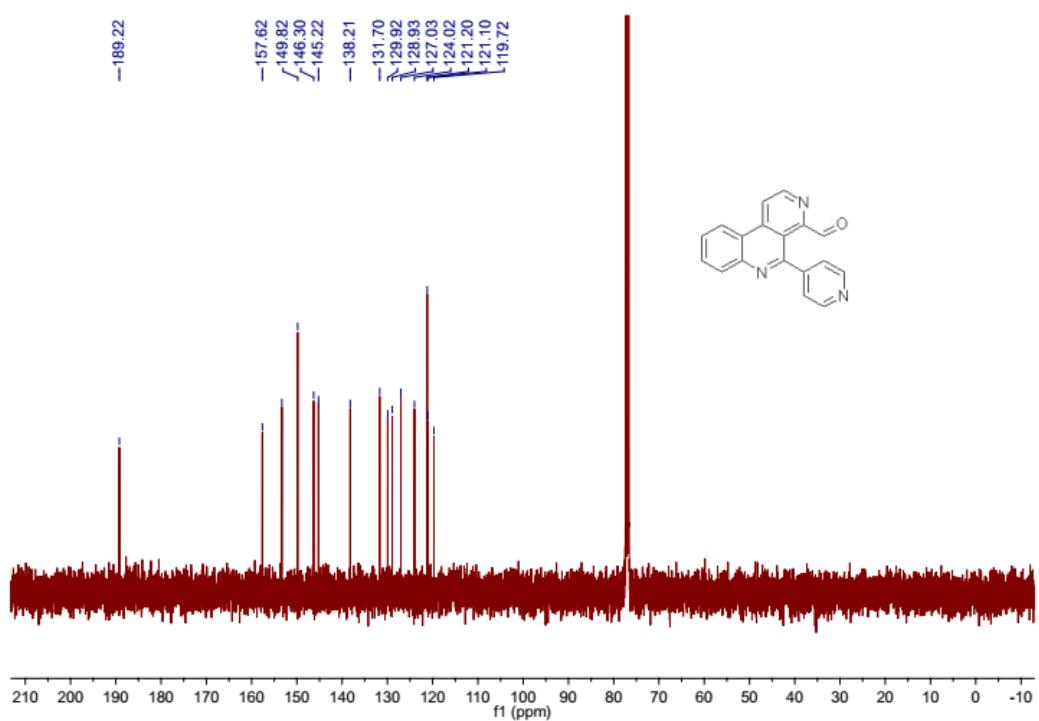
**<sup>1</sup>H NMR Spectrum of Compound 11a (400 MHz, CDCl<sub>3</sub>)**



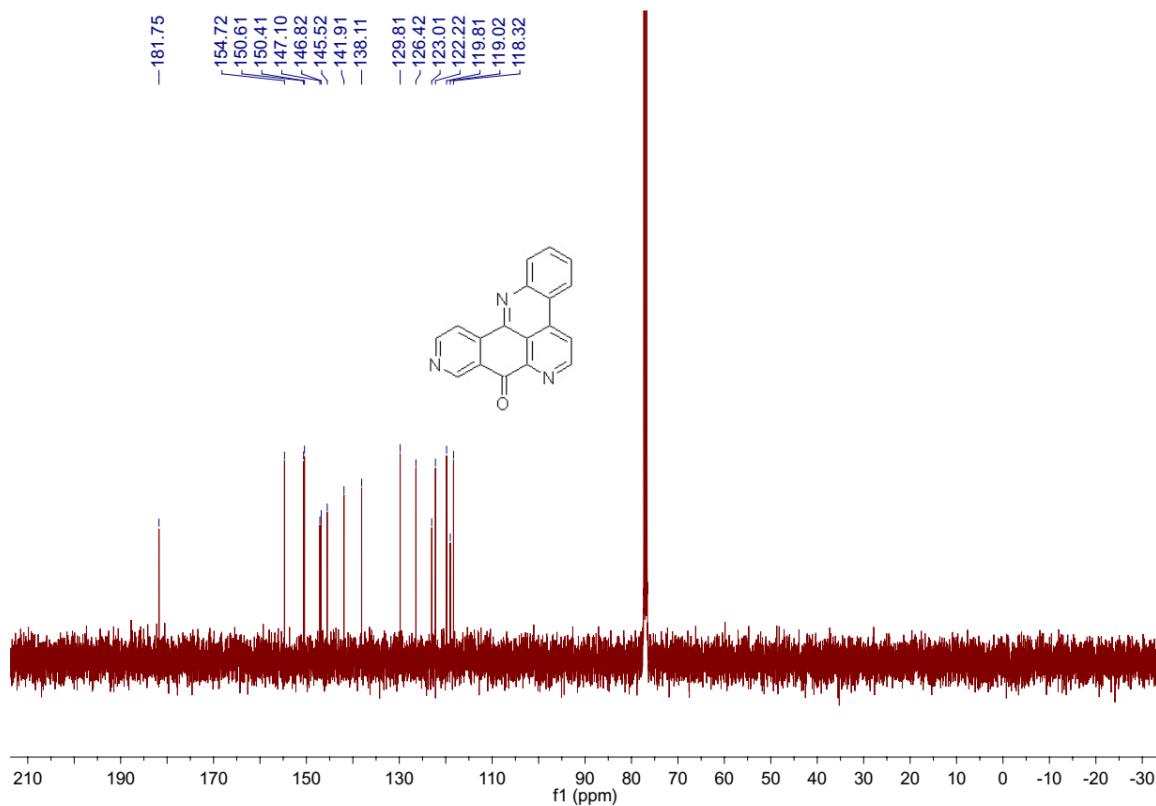
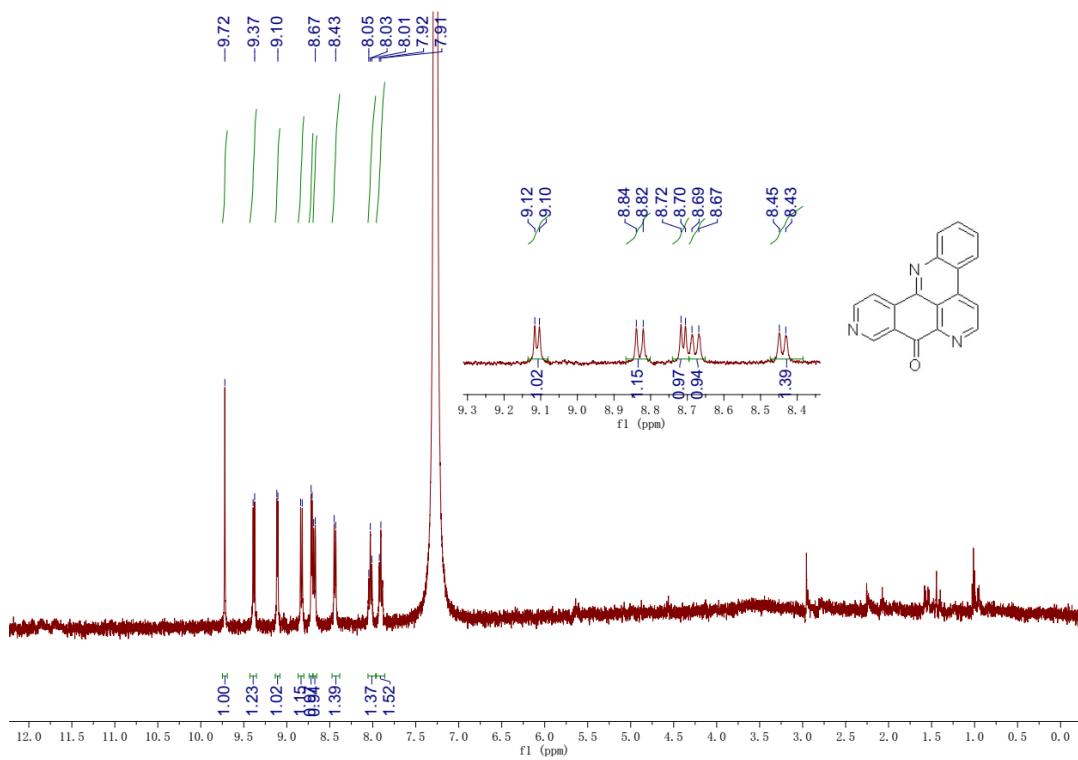
**<sup>13</sup>C{<sup>1</sup>H} NMR Spectrum of Compound 11a (100 MHz, CDCl<sub>3</sub>)**

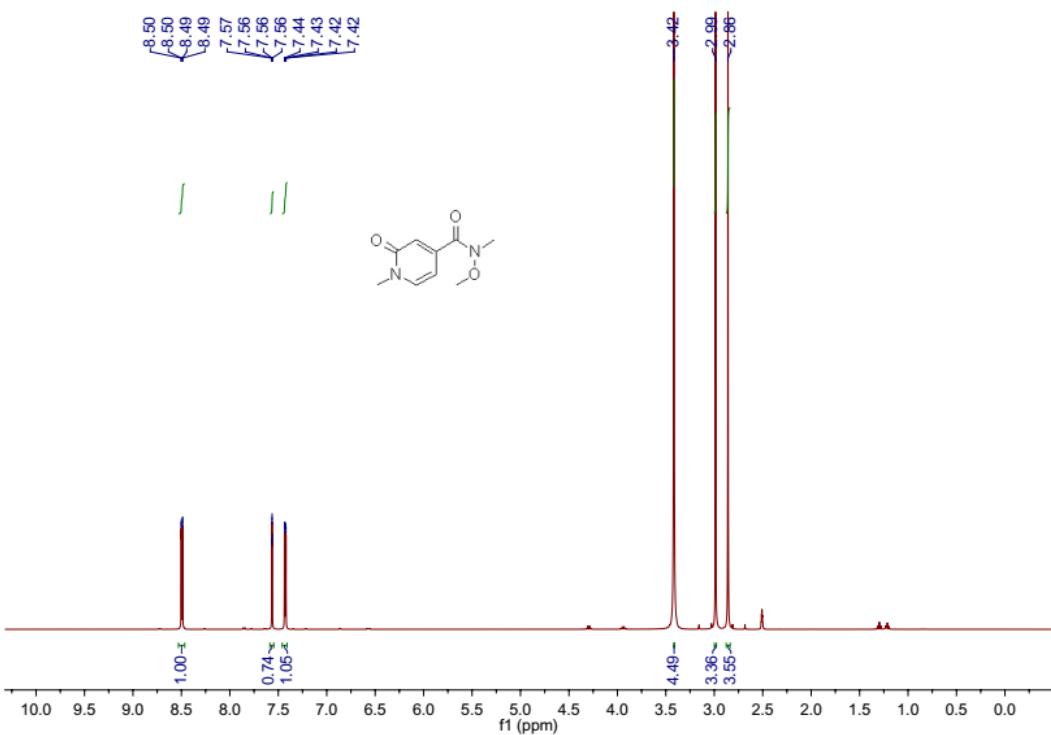


<sup>1</sup>H NMR Spectrum of Compound 12a (400 MHz, CDCl<sub>3</sub>)

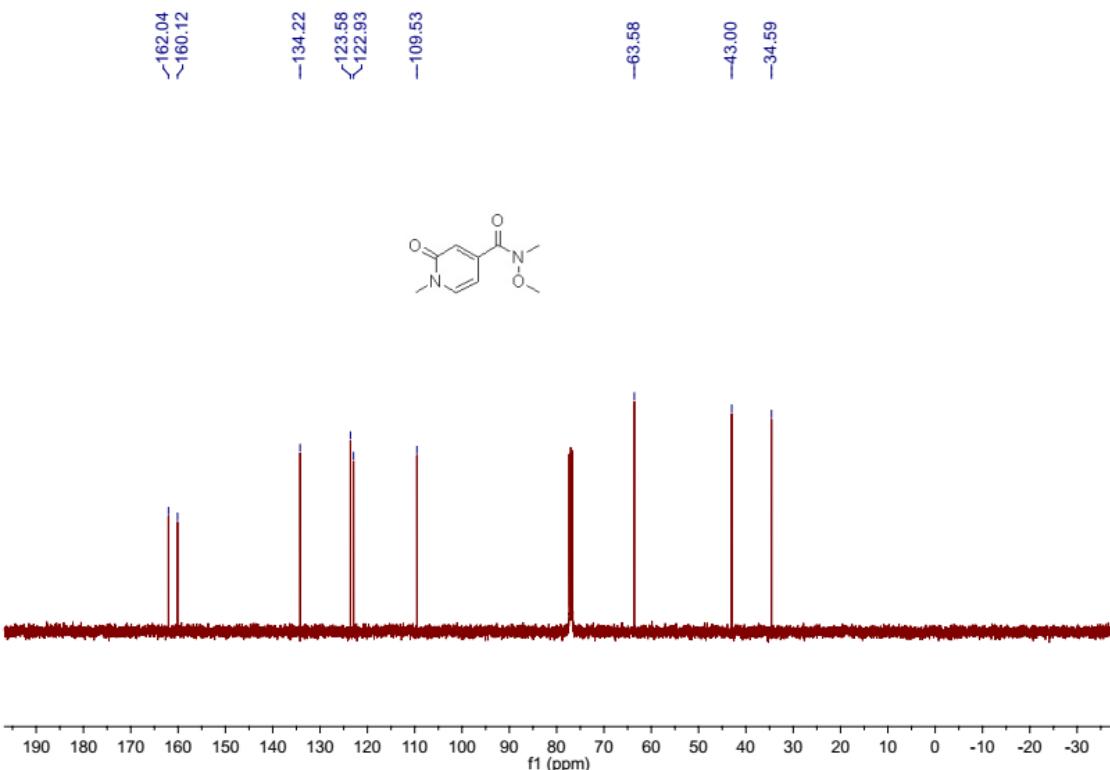


<sup>13</sup>C{<sup>1</sup>H} NMR Spectrum of Compound 12a (100 MHz, CDCl<sub>3</sub>)

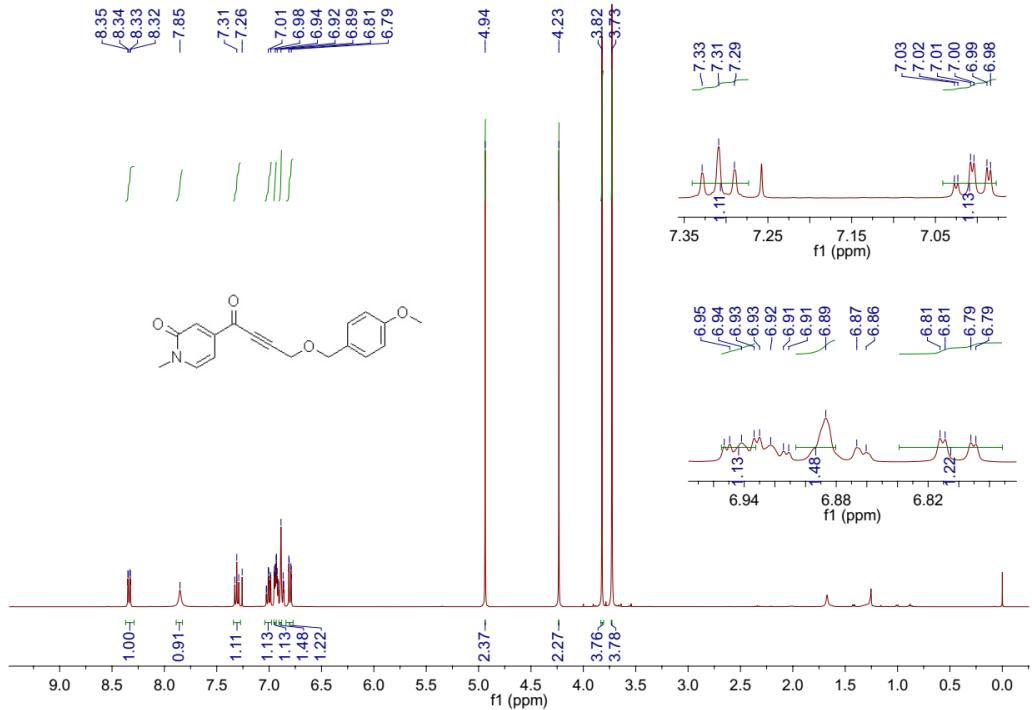




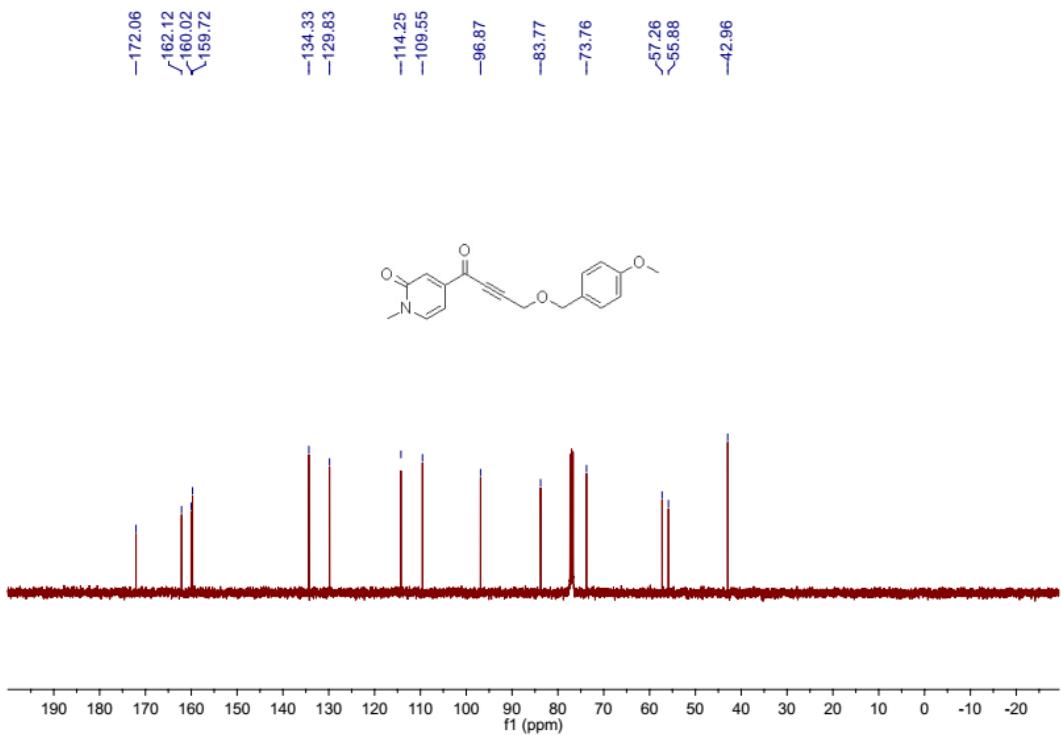
<sup>1</sup>H NMR Spectrum of *N*-Methoxy-*N*,1-Dimethyl-2-Oxo-1,2-Dihdropyridine-4-Carboxamide  
(400 MHz, DMSO-*d*<sub>6</sub>)



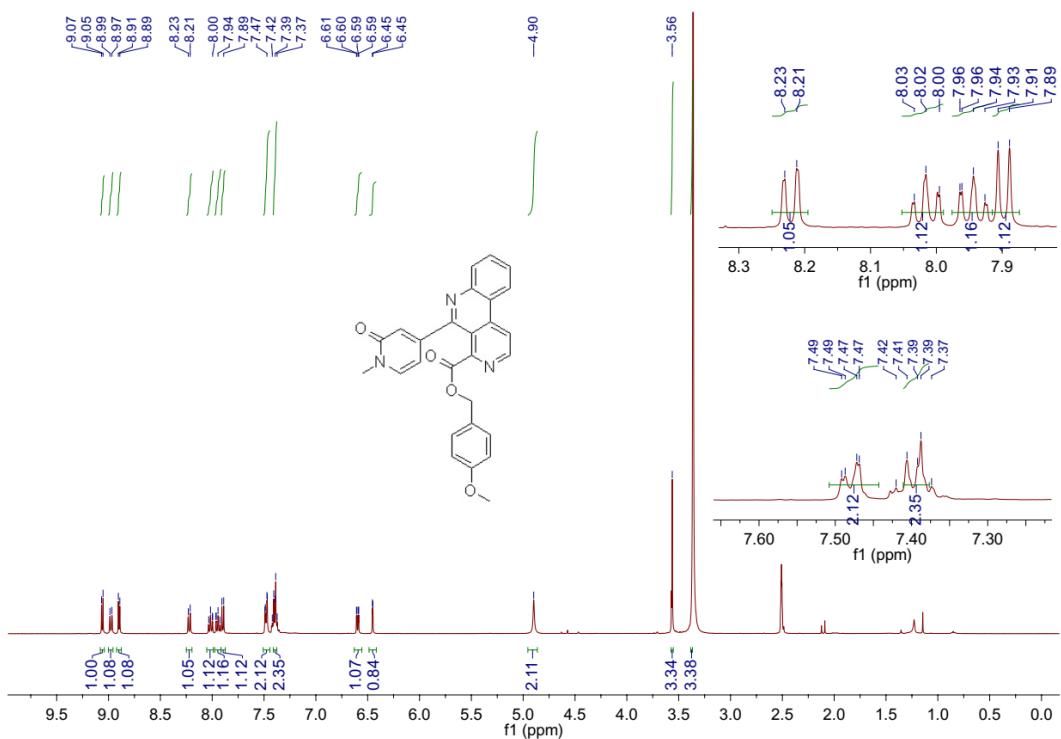
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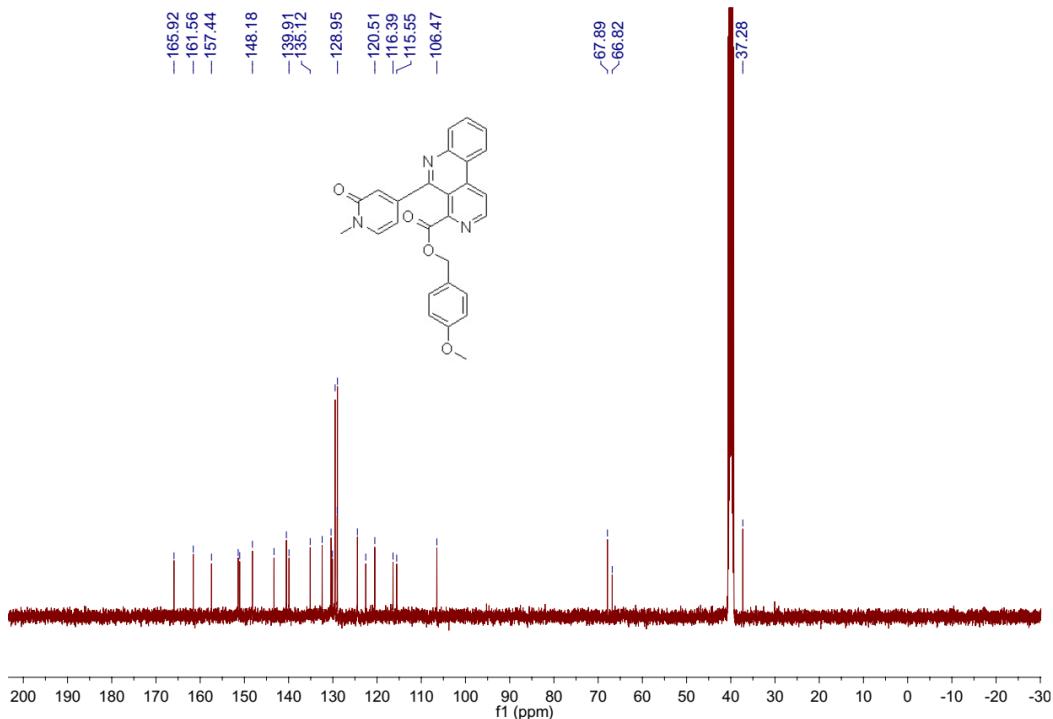
**<sup>1</sup>H NMR Spectrum of Compound 10b (400 MHz, CDCl<sub>3</sub>)**



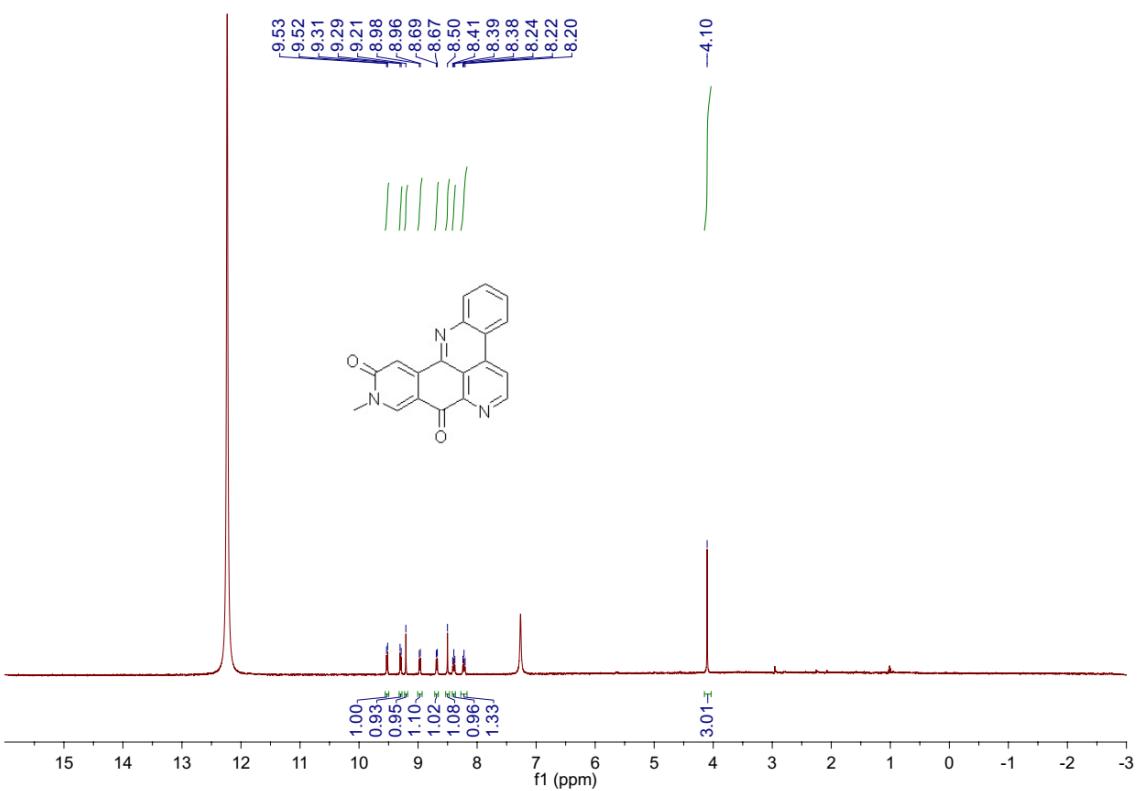
**<sup>13</sup>C{<sup>1</sup>H} NMR Spectrum of Compound 10b (100 MHz, CDCl<sub>3</sub>)**



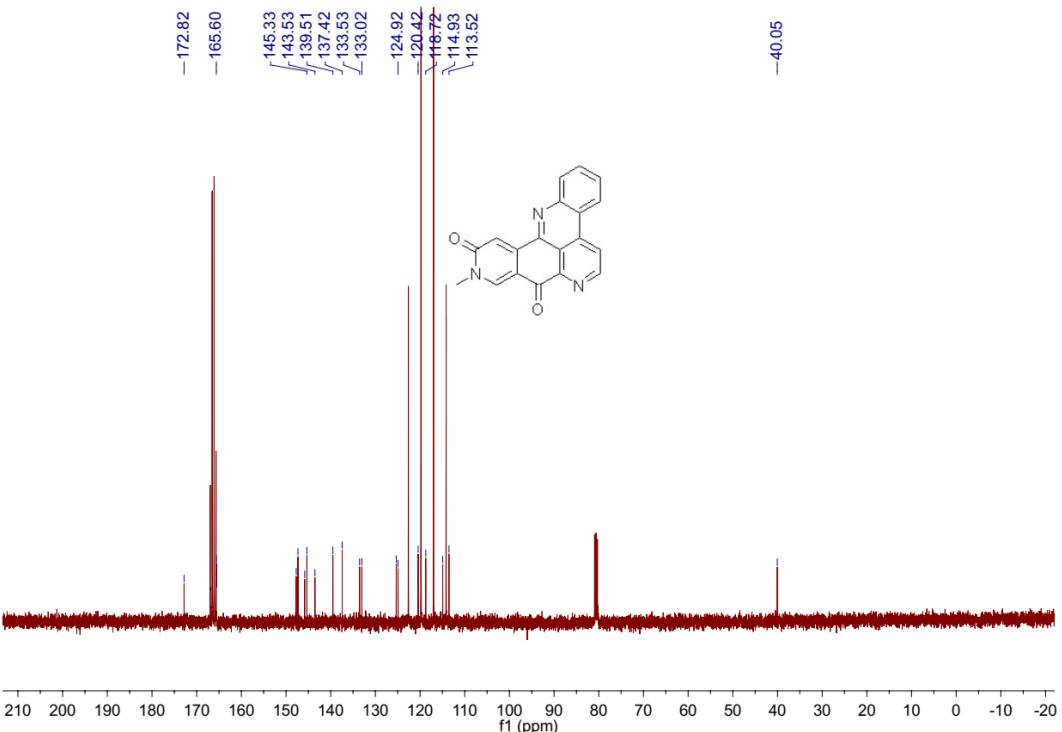
<sup>1</sup>H NMR Spectrum of Compound 11b (400 MHz, CDCl<sub>3</sub>)



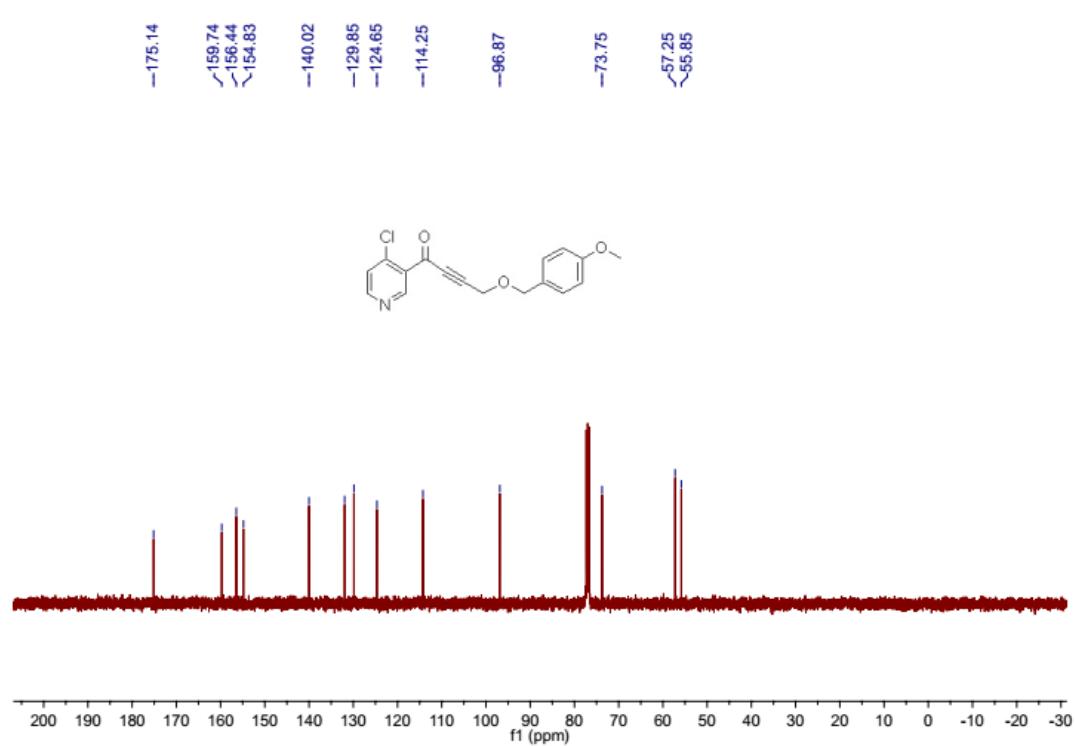
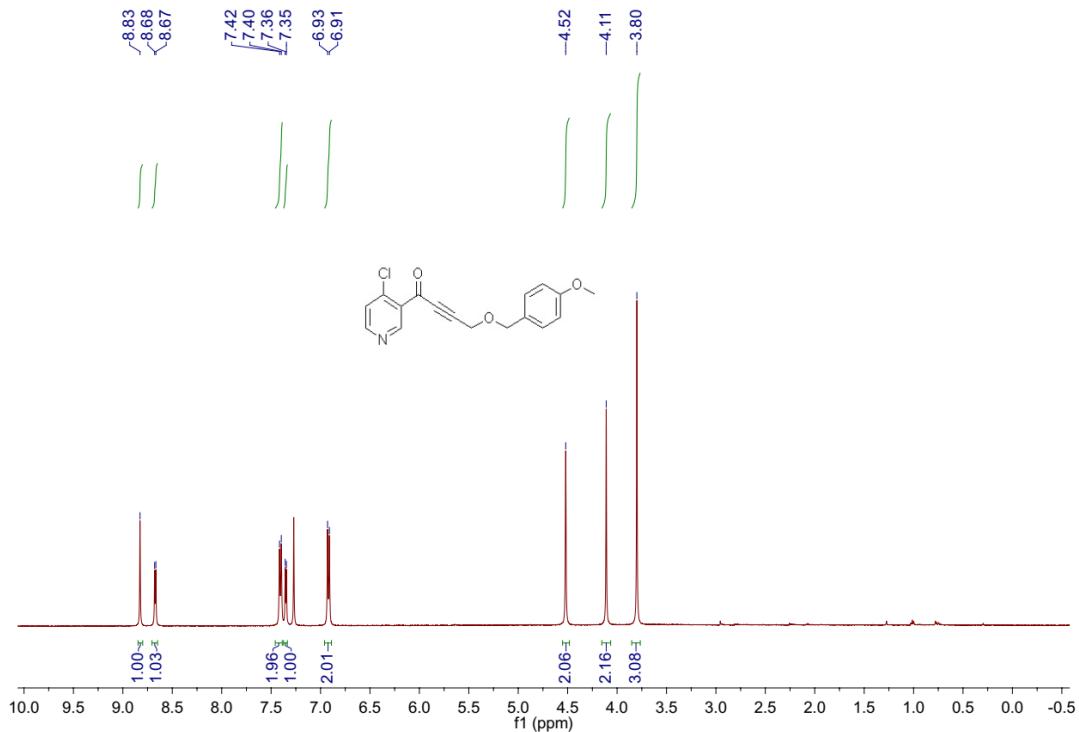
<sup>13</sup>C{<sup>1</sup>H} NMR Spectrum of Compound 11b (100 MHz, DMSO-d<sub>6</sub>)

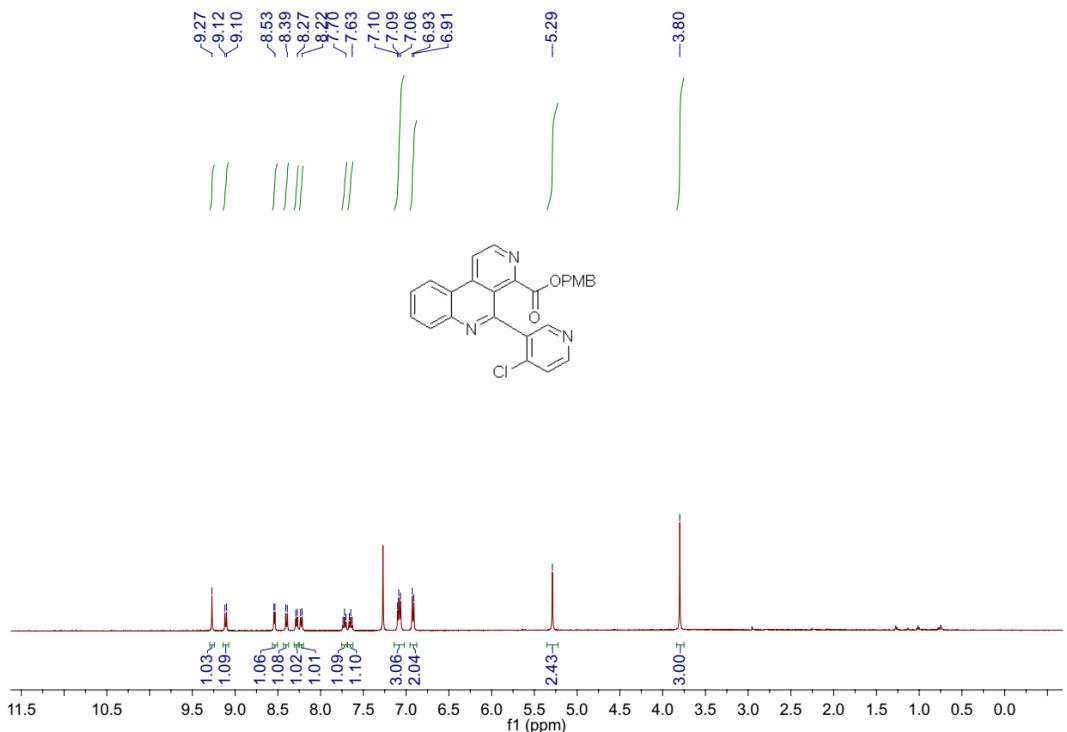


$^1\text{H}$  NMR Spectrum of Amphimedine (2) (400 MHz,  $d$ -TFA/CDCl<sub>3</sub> = 2:1)

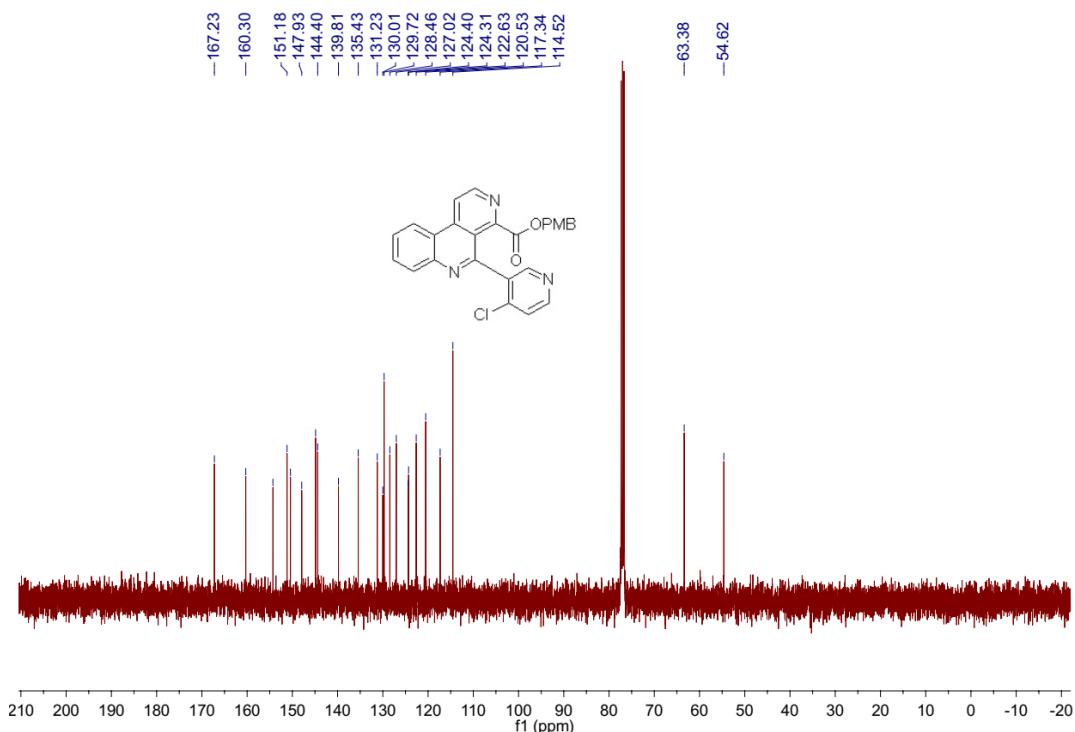


$^{13}\text{C}\{^1\text{H}\}$  NMR Spectrum of Amphimedine (2) (100 MHz,  $d$ -TFA/CDCl<sub>3</sub> = 2:1)

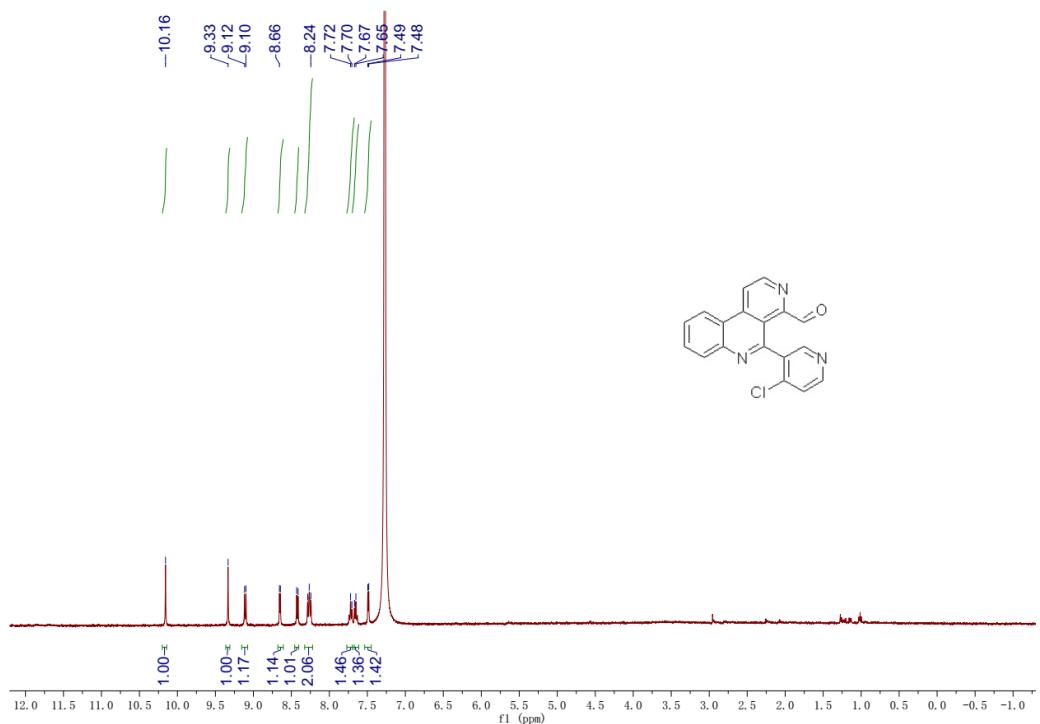




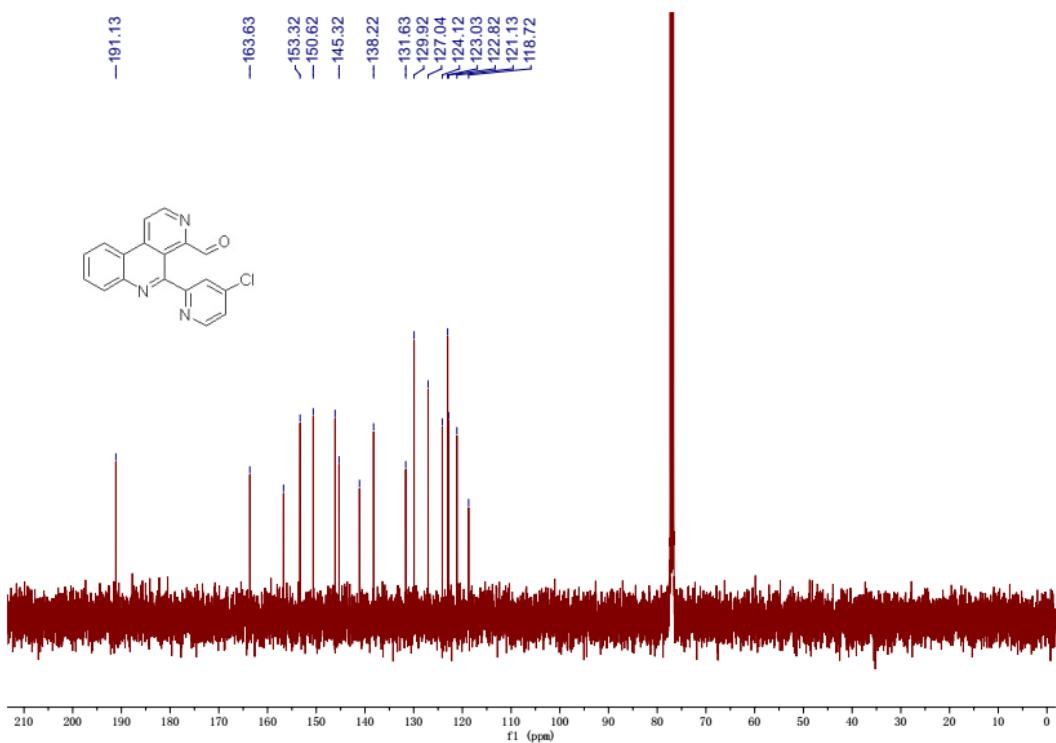
**<sup>1</sup>H NMR Spectrum of Compound 11c (400 MHz, CDCl<sub>3</sub>)**



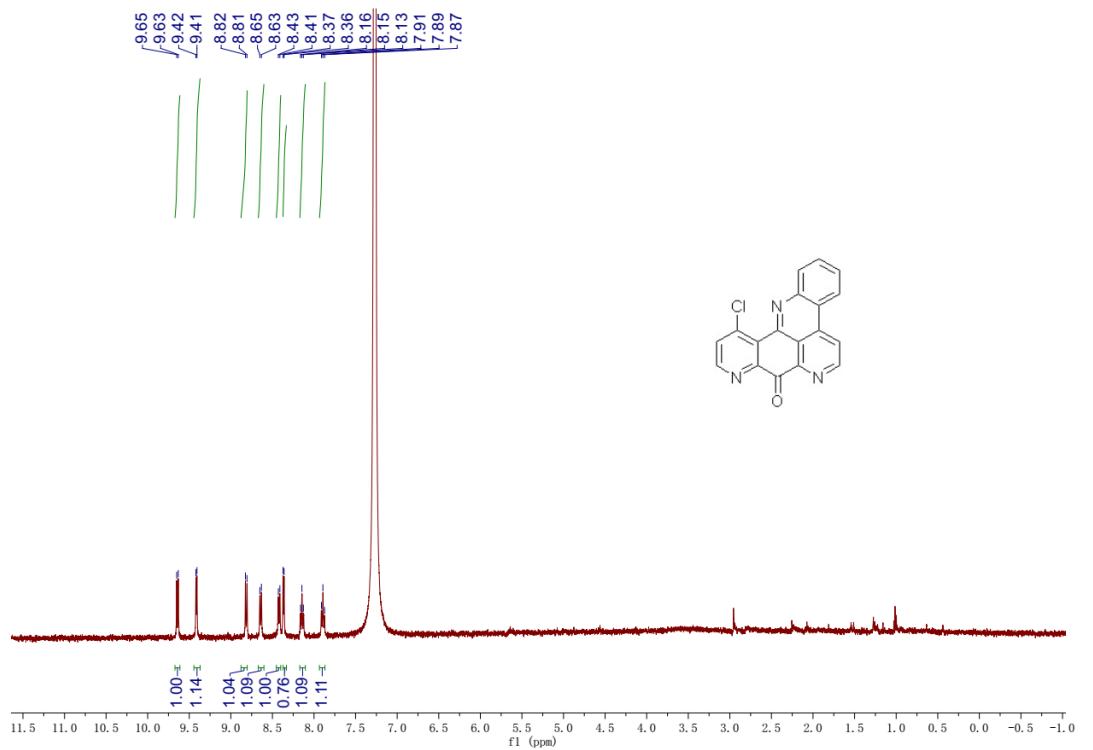
<sup>13</sup>C{<sup>1</sup>H} NMR Spectrum of Compound 11c (100 MHz, CDCl<sub>3</sub>)



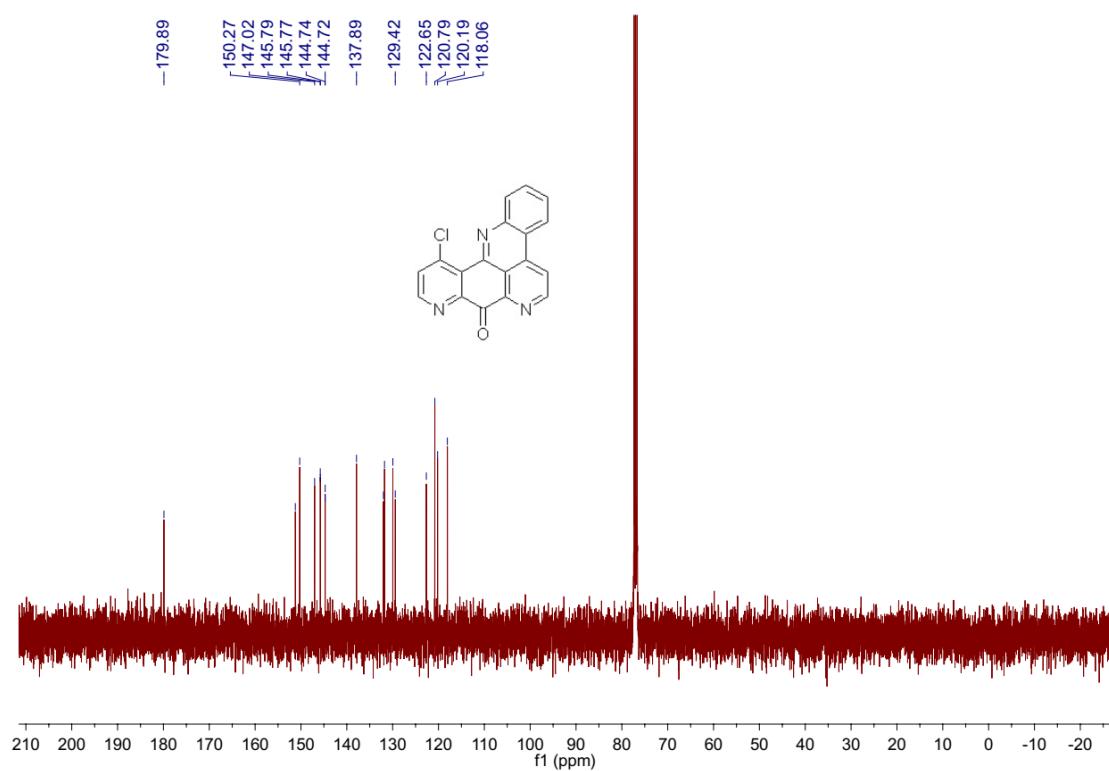
**$^1\text{H}$  NMR Spectrum of Compound 12c (400 MHz,  $\text{CDCl}_3$ )**



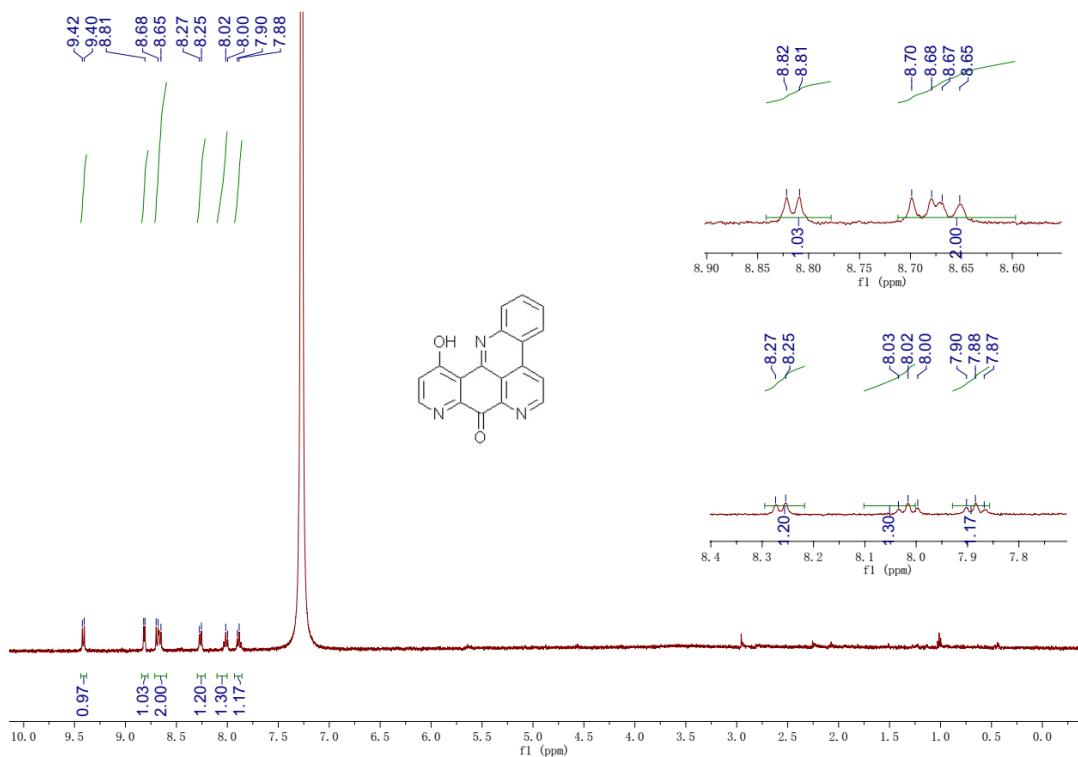
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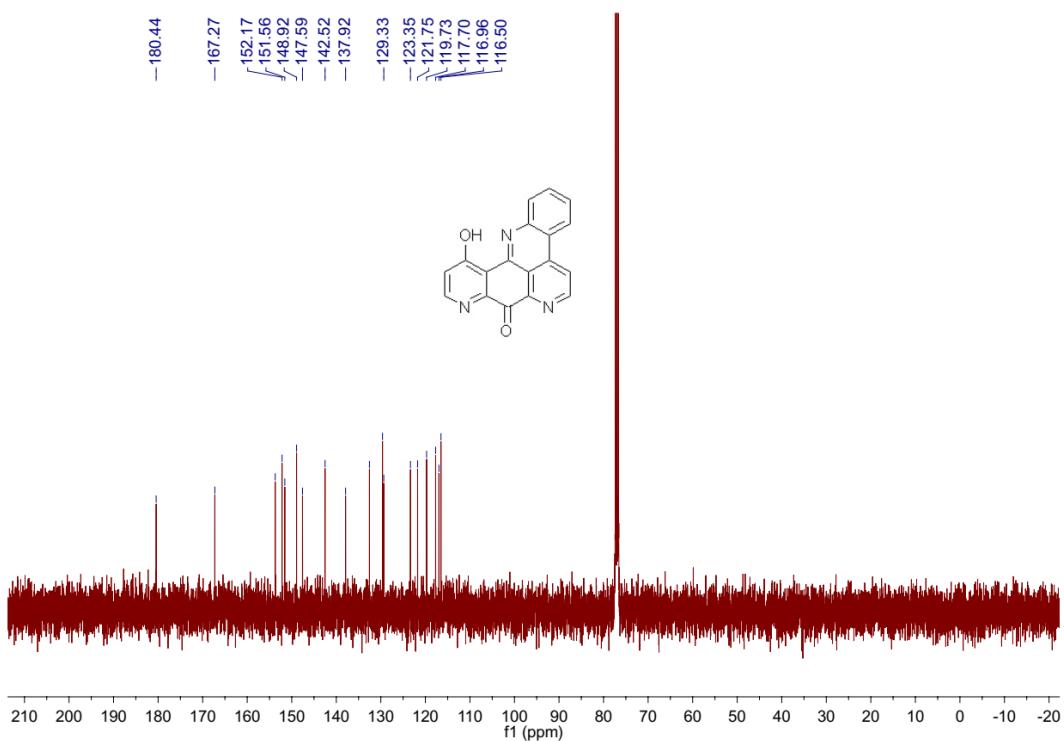
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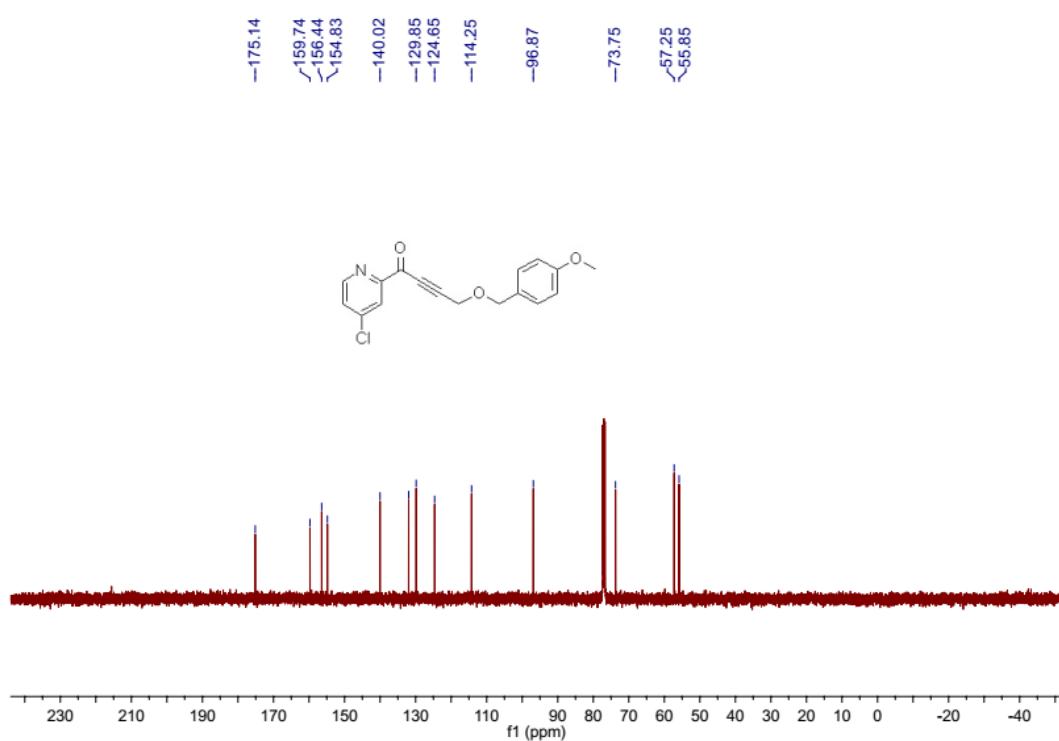
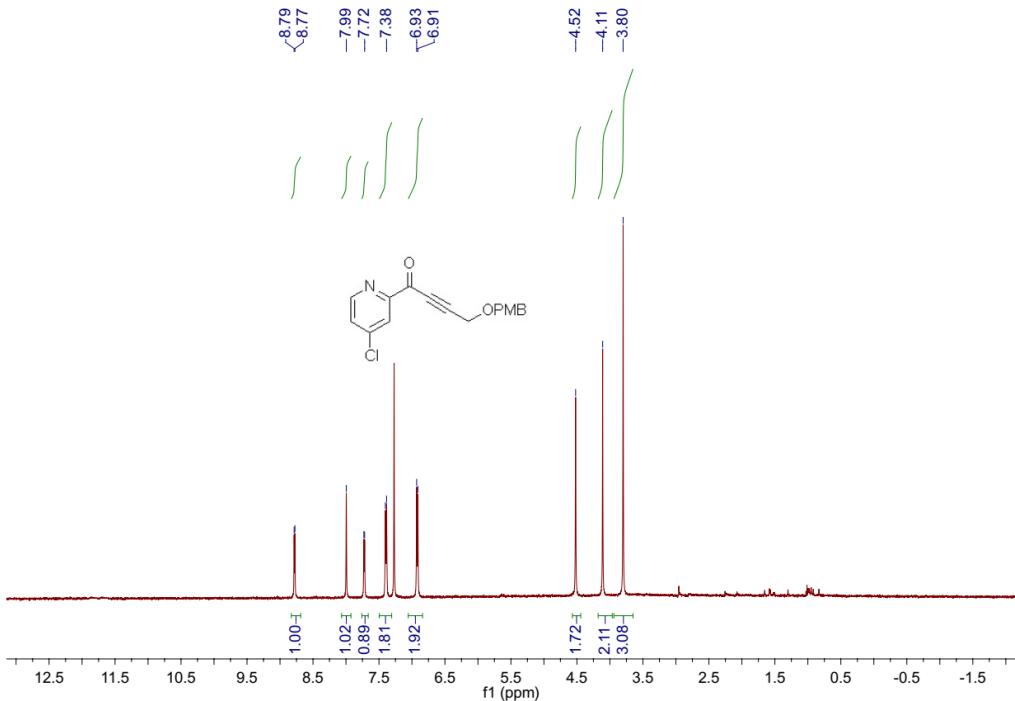
**$^{13}\text{C}\{^1\text{H}\}$  NMR Spectrum of Compound 13 (100 MHz,  $\text{CDCl}_3$ )**

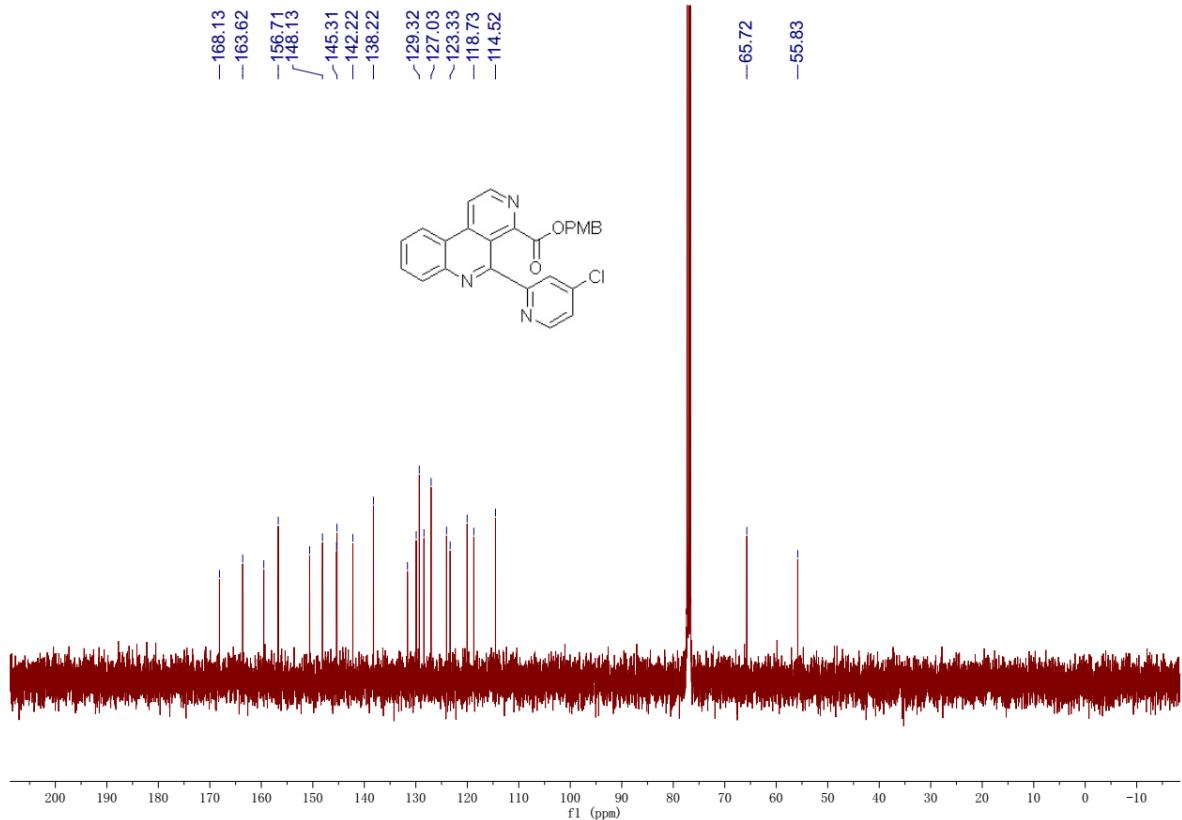
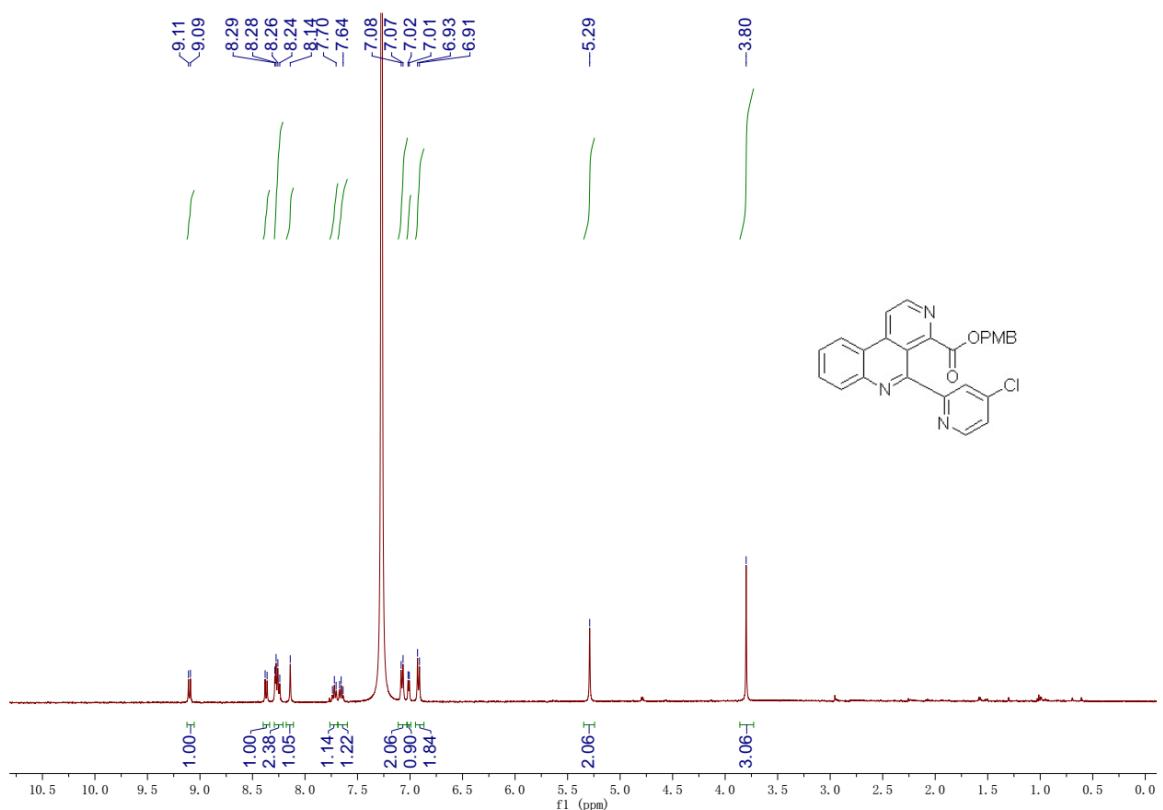


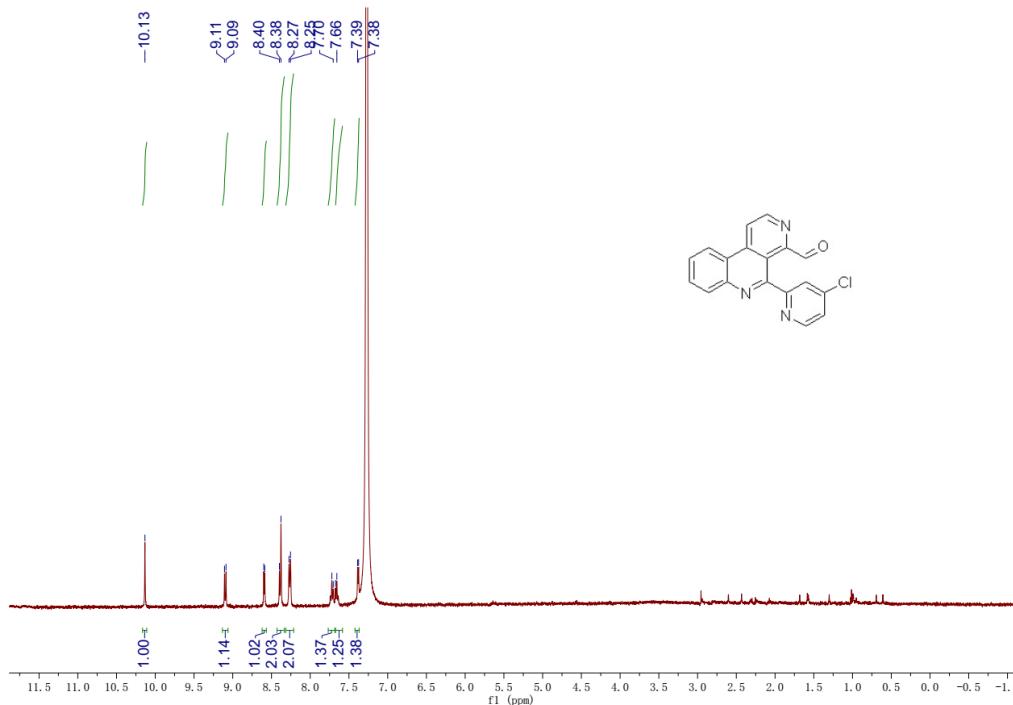
**$^1\text{H}$  NMR Spectrum of Meridine (3) (400 MHz,  $\text{CDCl}_3$ )**



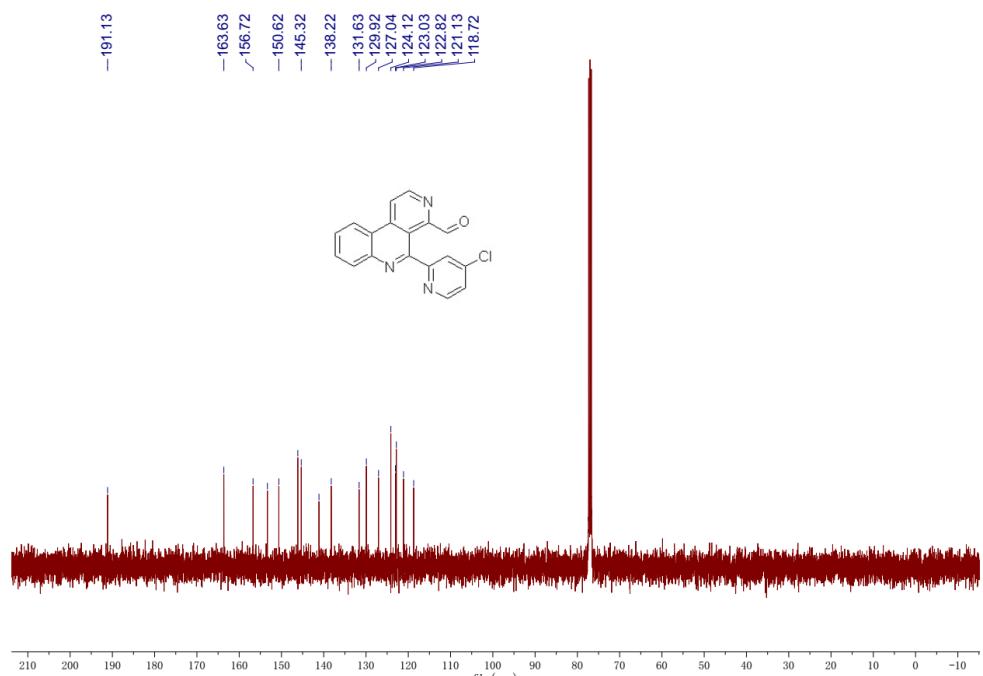
**$^{13}\text{C}\{^1\text{H}\}$  NMR Spectrum of Meridine (3) (100 MHz,  $\text{CDCl}_3$ )**



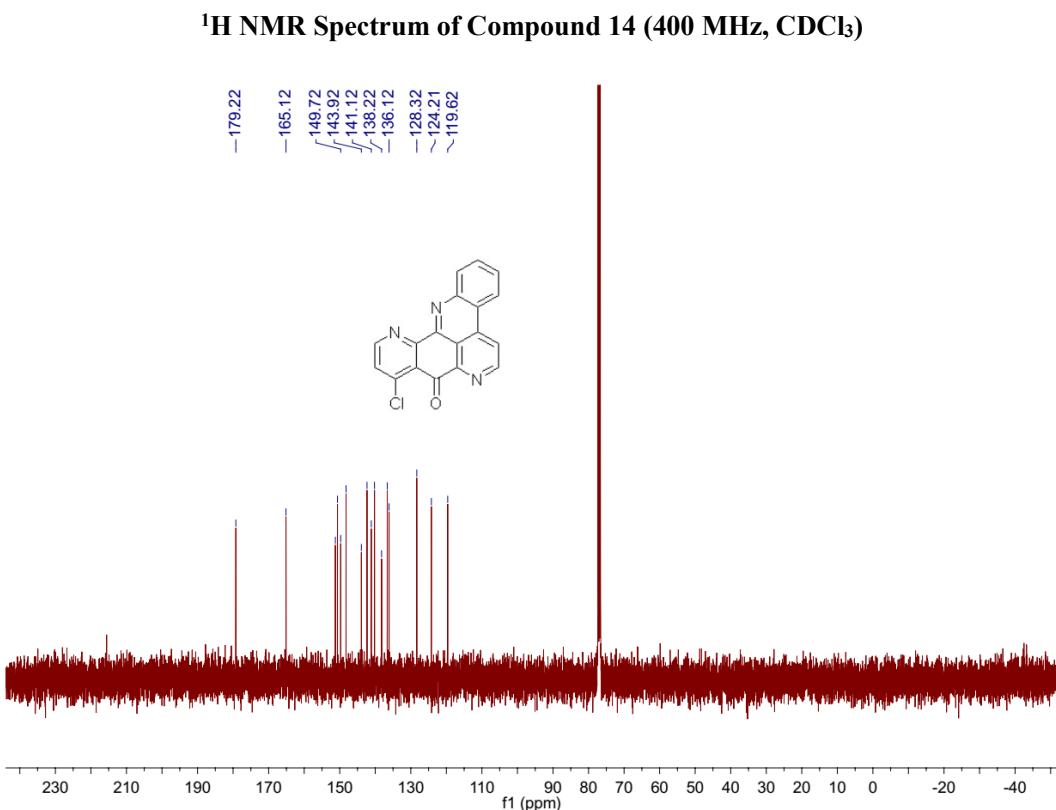
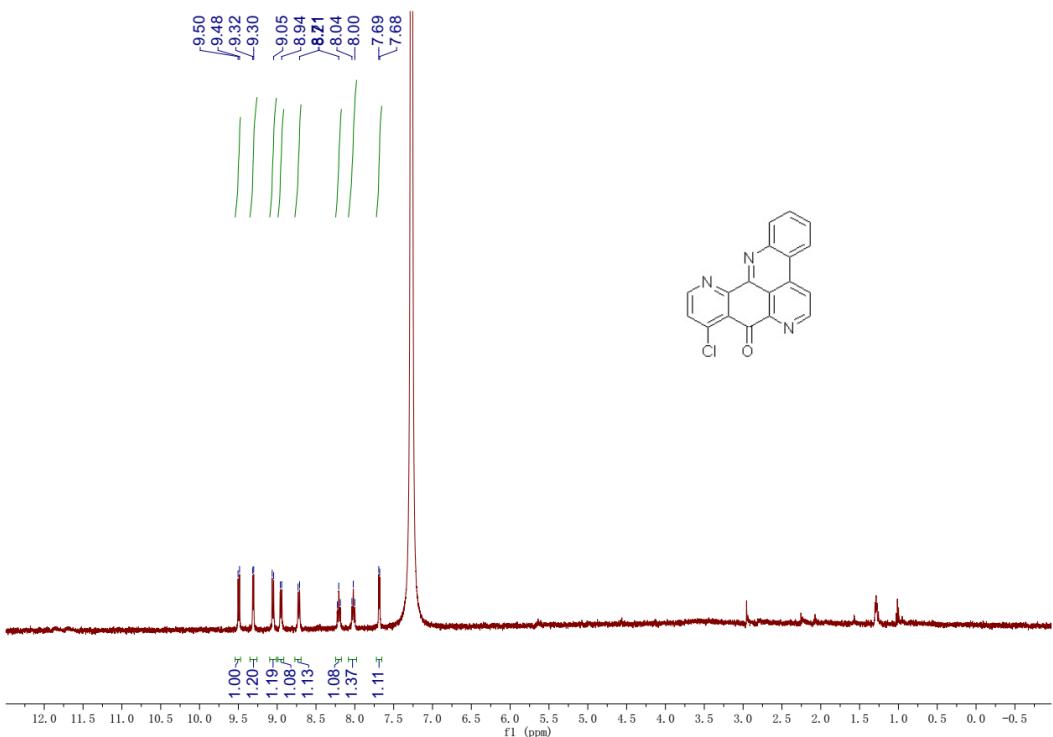


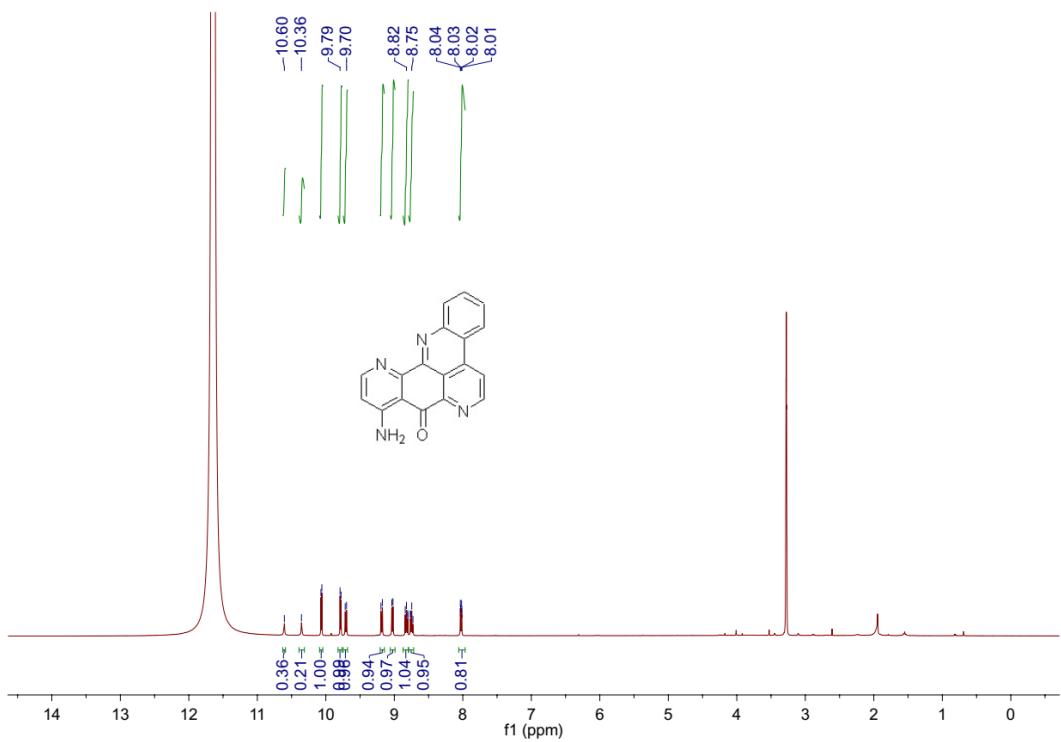


**$^1\text{H}$  NMR Spectrum of Compound 12d (400 MHz,  $\text{CDCl}_3$ )**

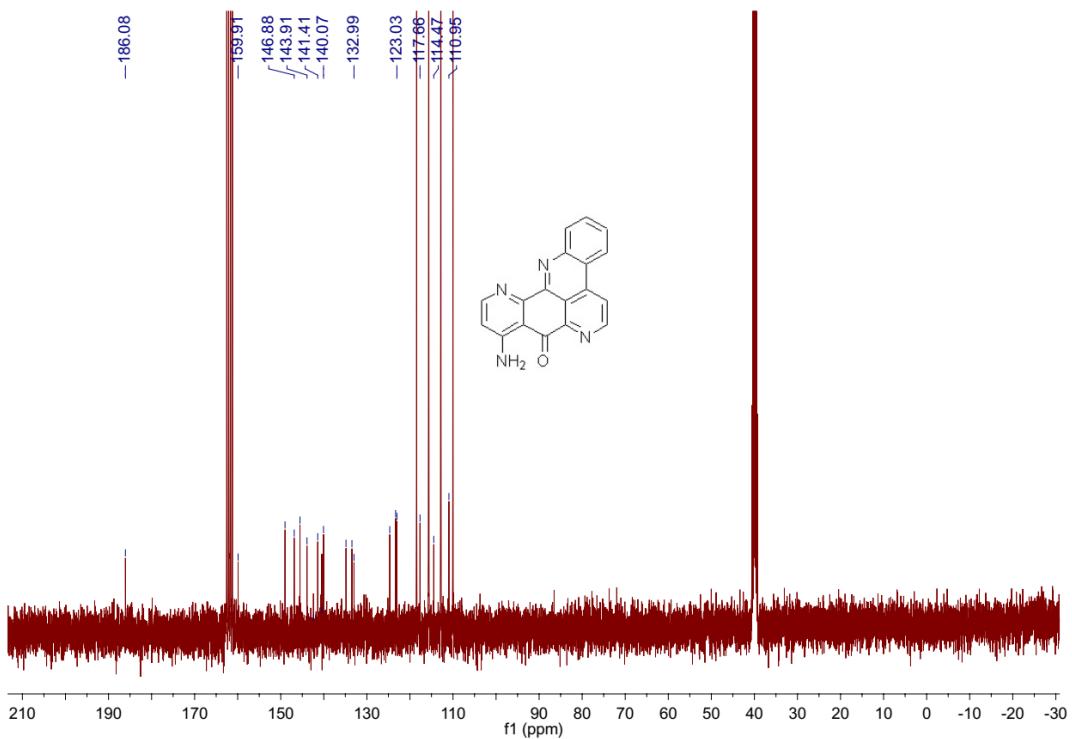


**$^{13}\text{C}\{^1\text{H}\}$  NMR Spectrum of Compound 12d (100 MHz,  $\text{CDCl}_3$ )**

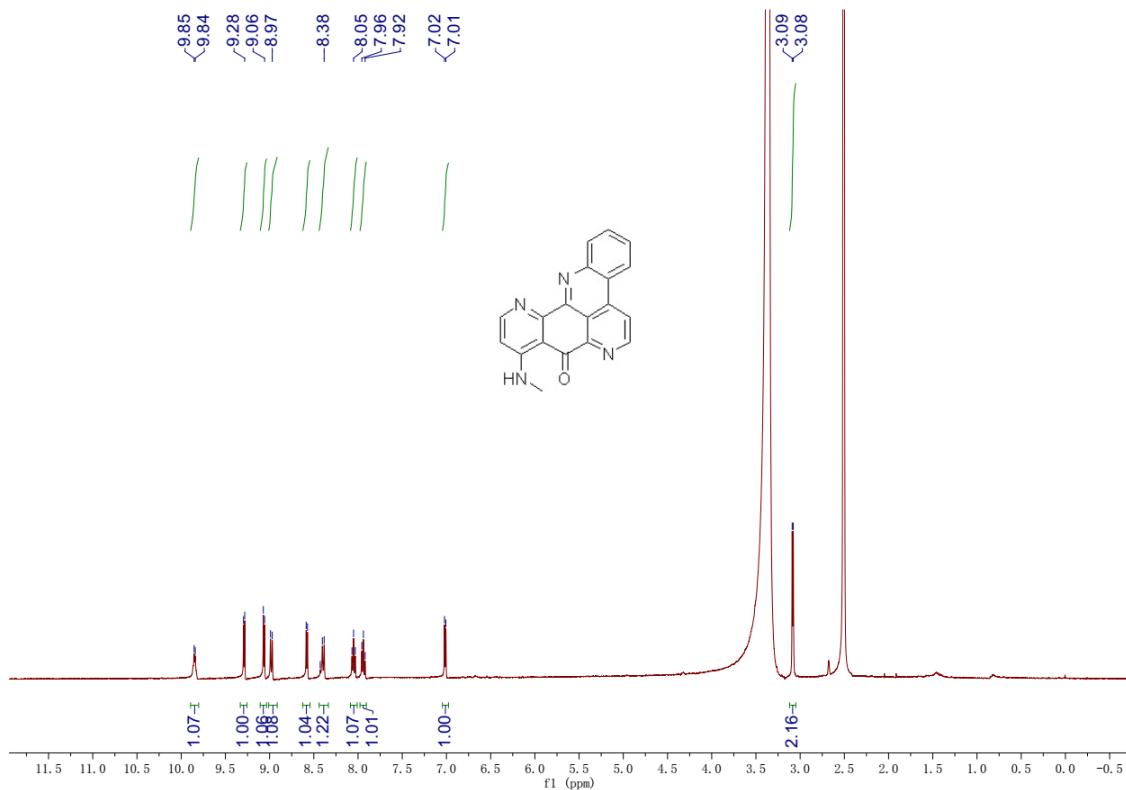




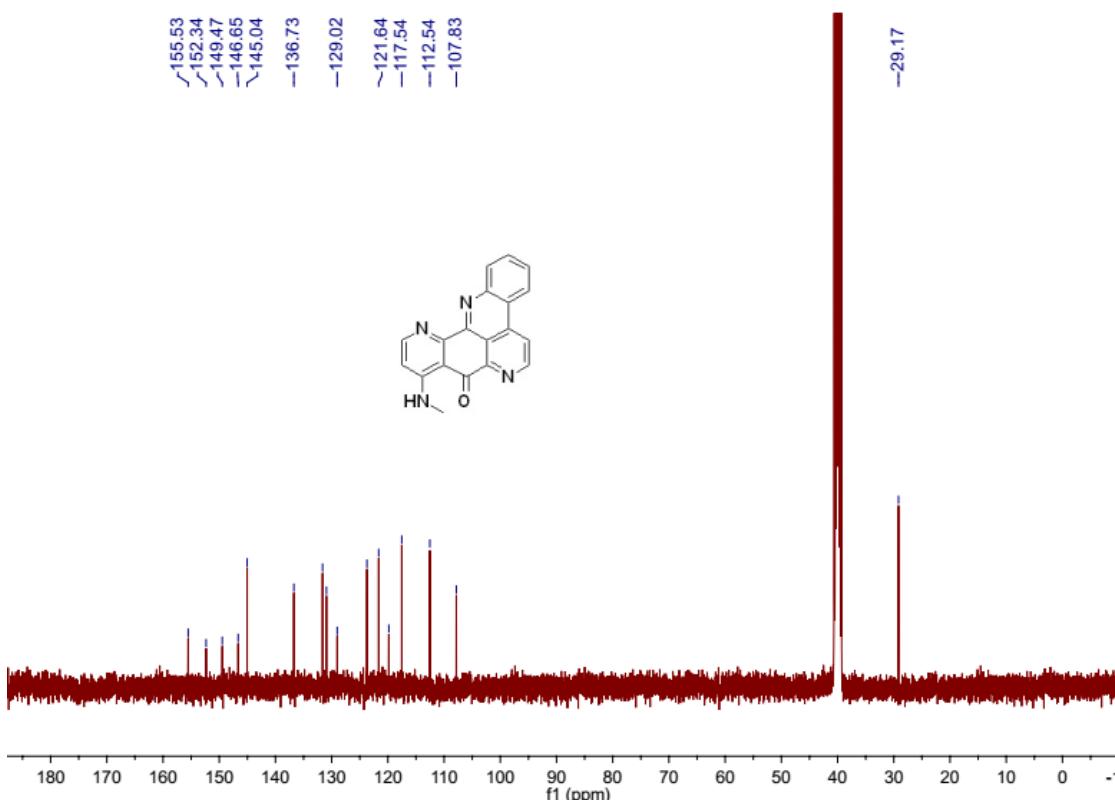
<sup>1</sup>H NMR Spectrum of Isocystodamine (4) (400 MHz, CF<sub>3</sub>CO<sub>2</sub>D/DMSO-*d*<sub>6</sub> = 2 : 1)



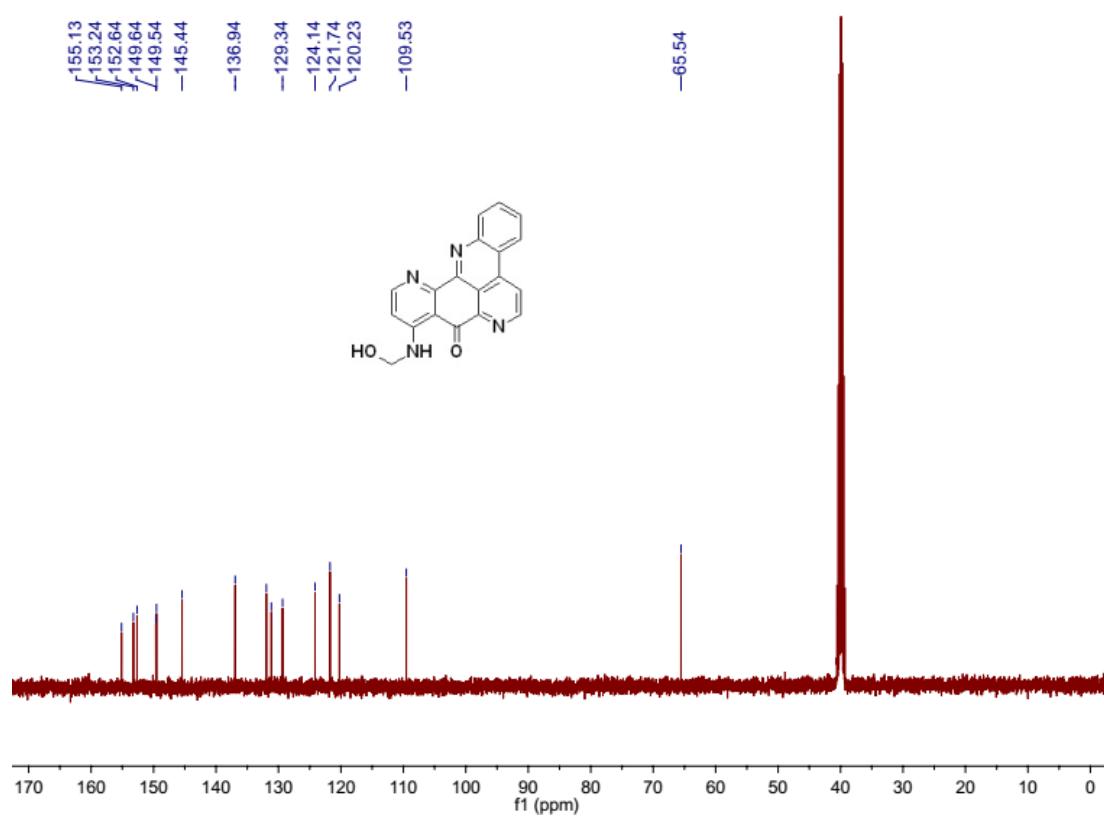
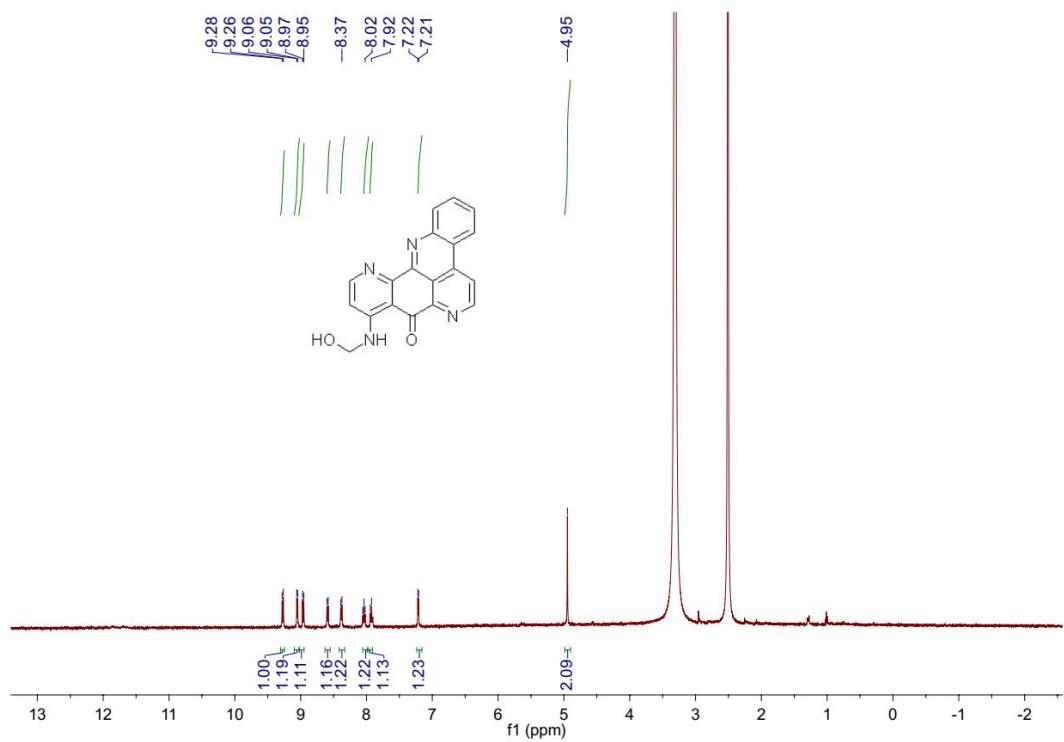
<sup>13</sup>C{<sup>1</sup>H} NMR Spectrum of Isocystodamine (4) (100 MHz, CF<sub>3</sub>CO<sub>2</sub>D/DMSO-*d*<sub>6</sub> = 2 : 1)

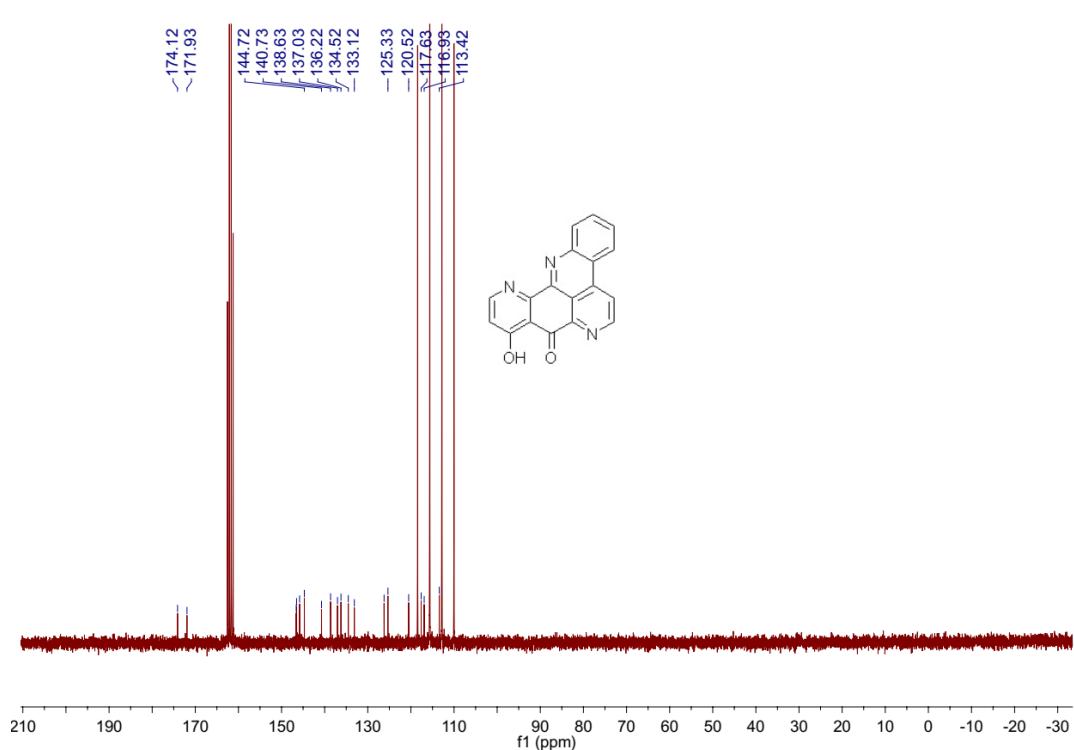
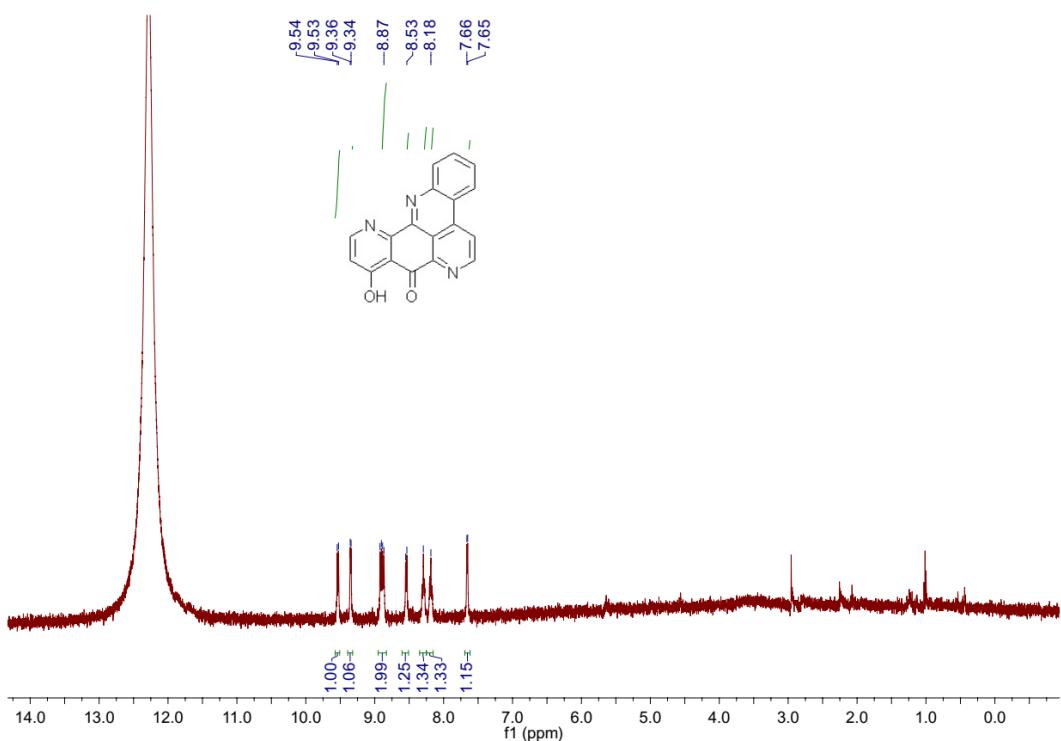


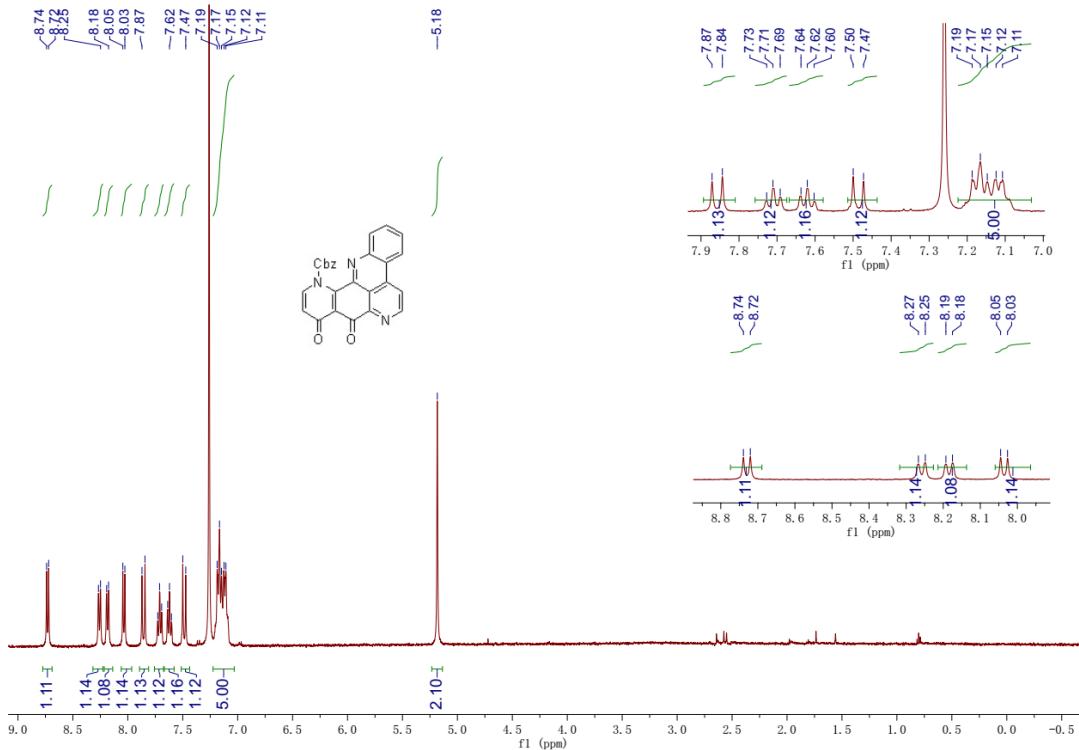
<sup>1</sup>H NMR Spectrum of *N*-Methylisocystodamine (**5**) (400 MHz, DMSO-d<sub>6</sub>)



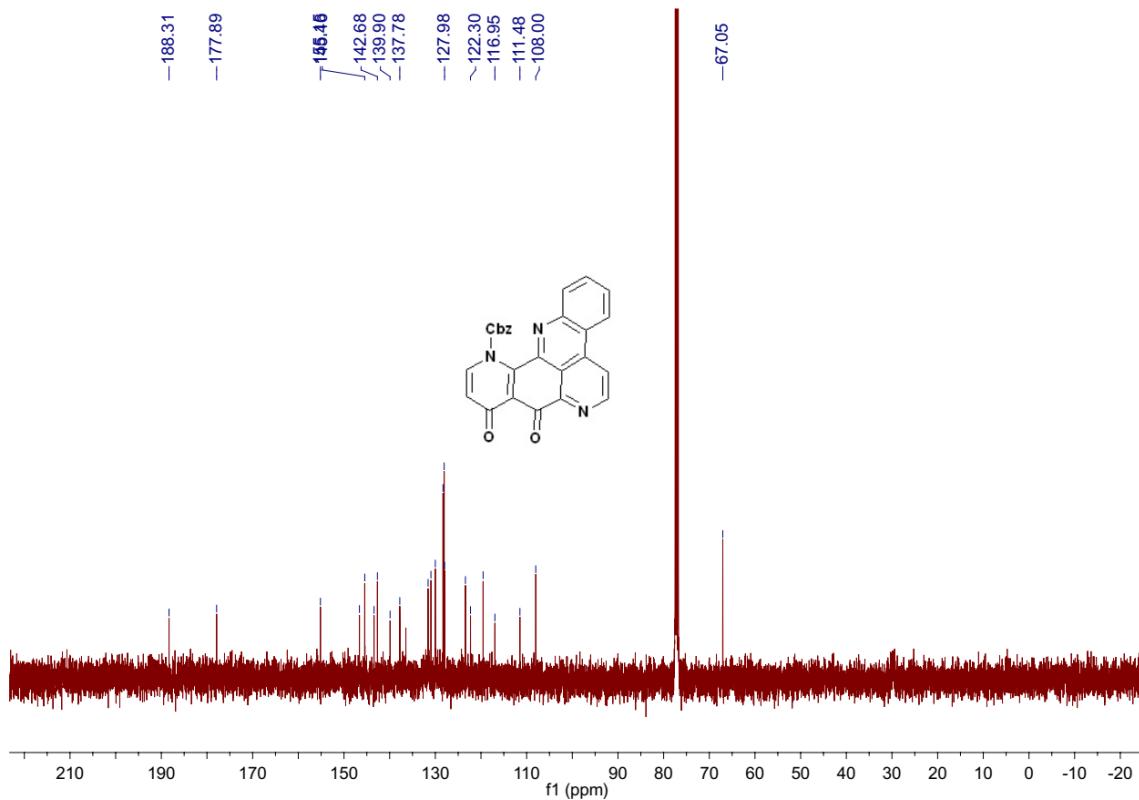
<sup>13</sup>C{<sup>1</sup>H} NMR Spectrum of *N*-Methylisocystodamine (**5**) (100 MHz, DMSO-d<sub>6</sub>)



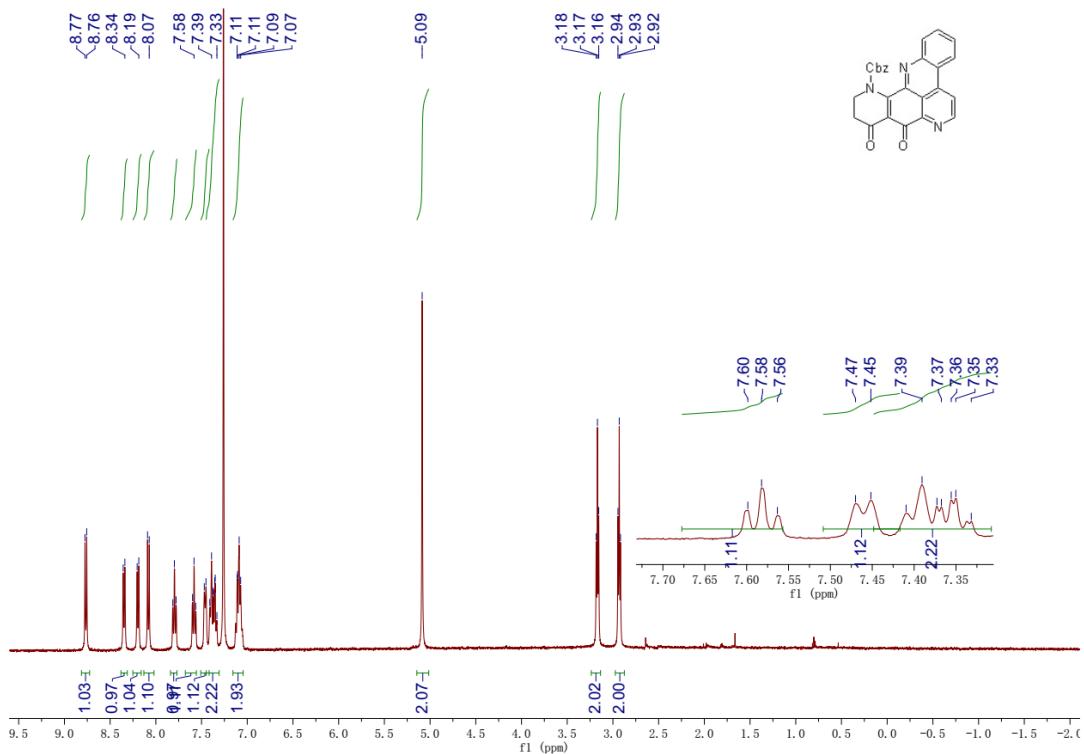




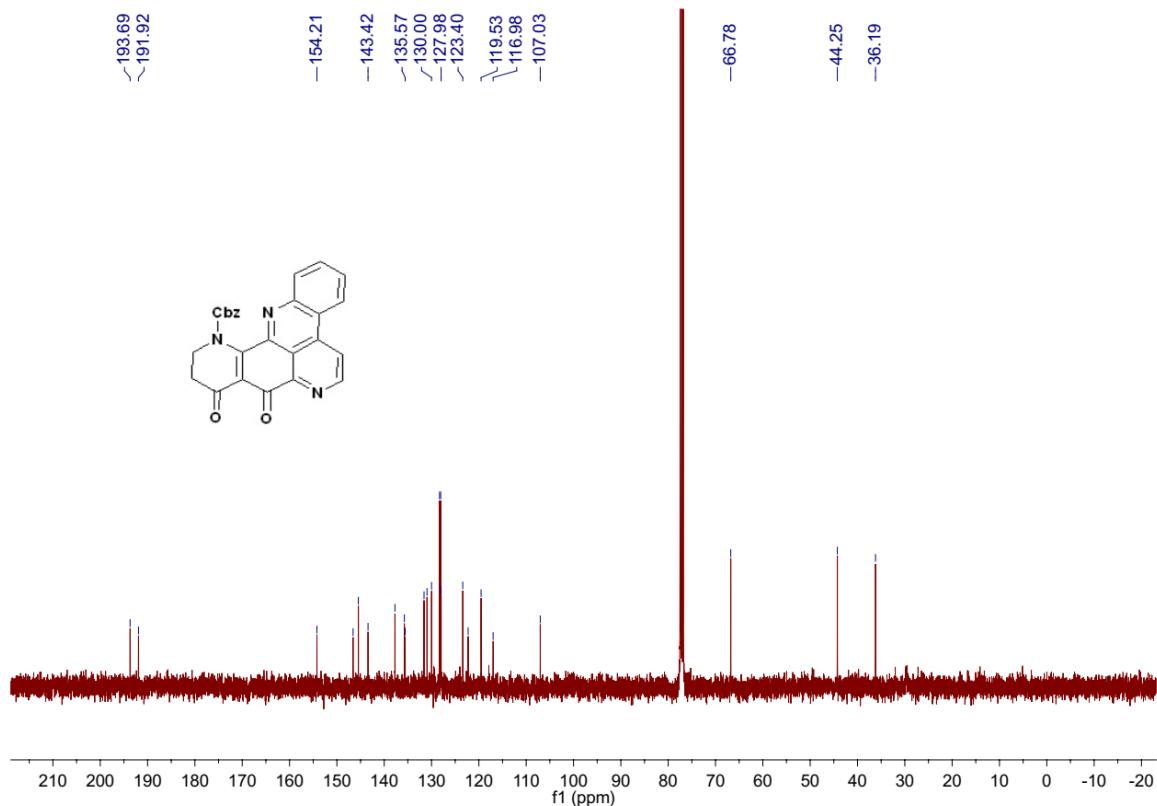
**<sup>1</sup>H NMR Spectrum of Compound 8-1 (400 MHz, CDCl<sub>3</sub>)**



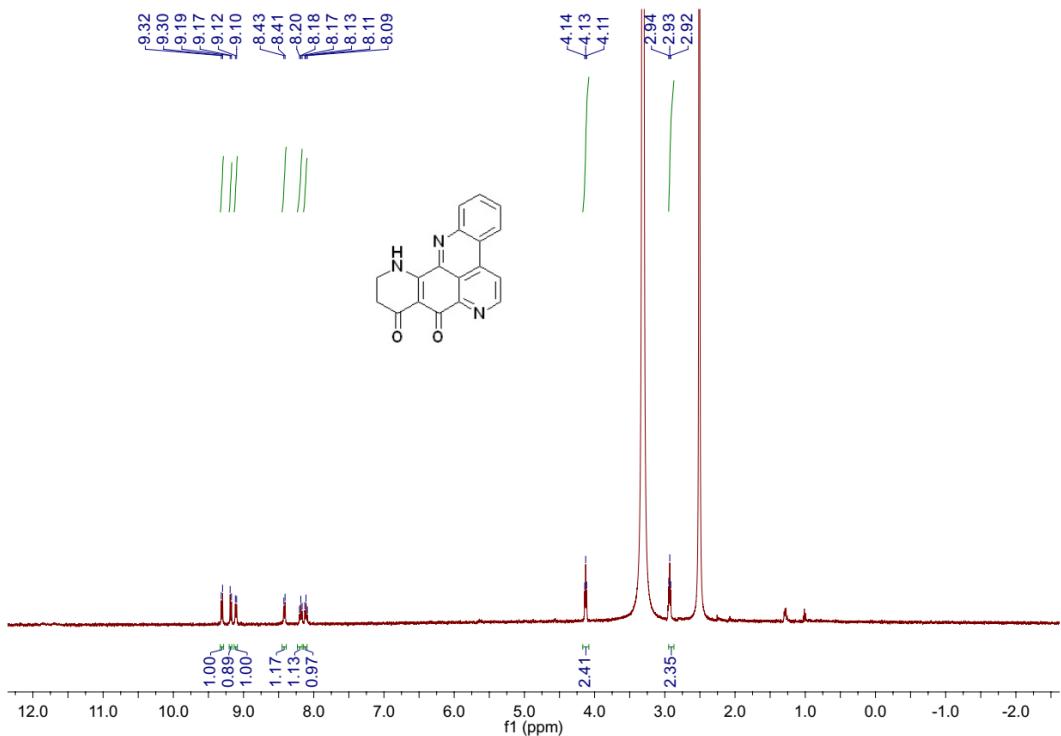
<sup>13</sup>C{<sup>1</sup>H} NMR Spectrum of Compound 8-1 (100 MHz, CDCl<sub>3</sub>)



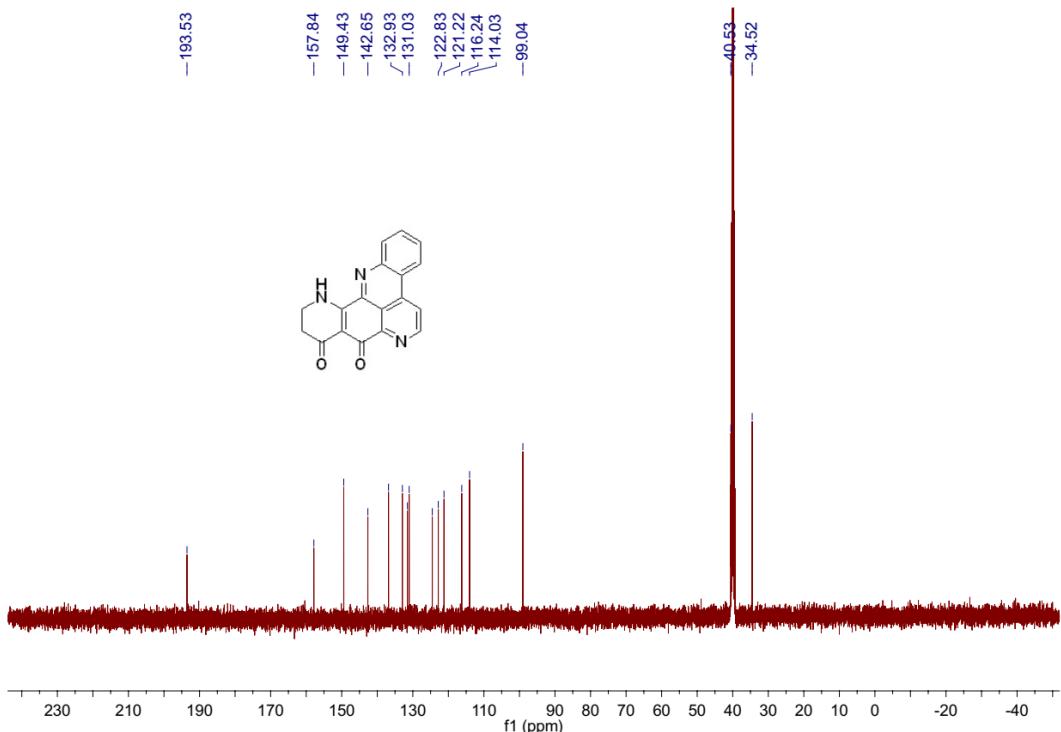
**<sup>1</sup>H NMR Spectrum of Compound 8-2 (400 MHz, CDCl<sub>3</sub>)**



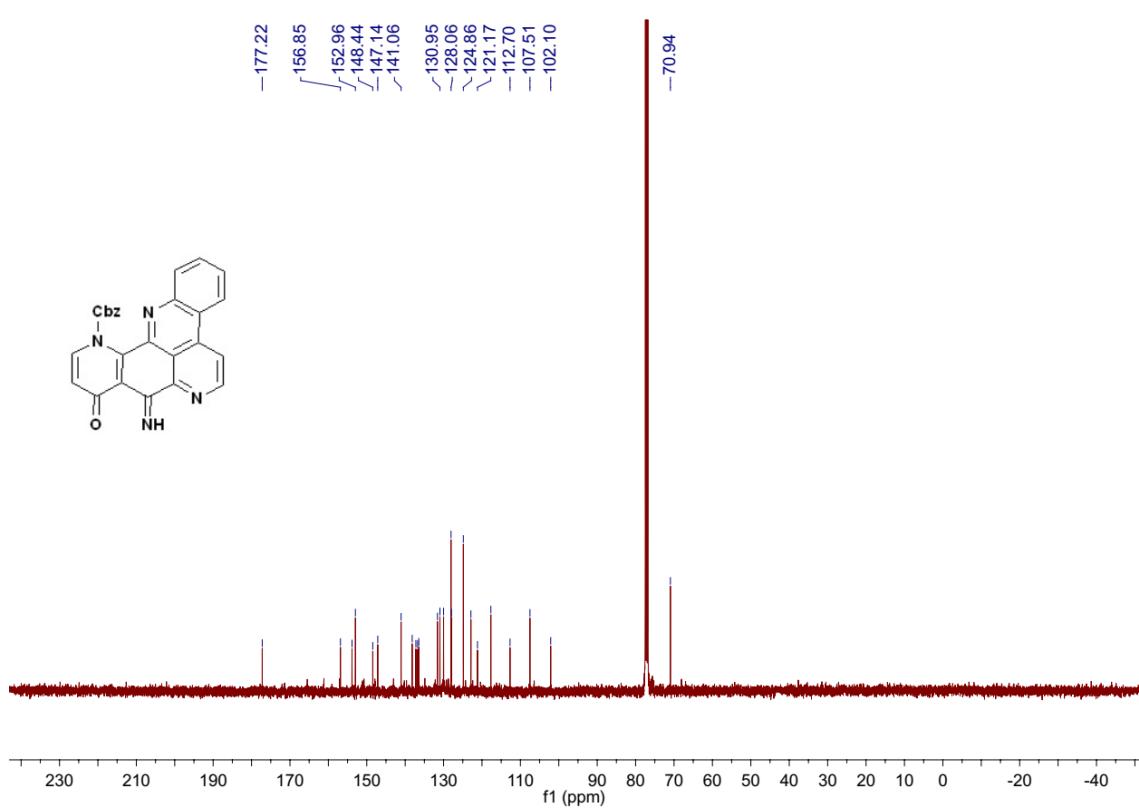
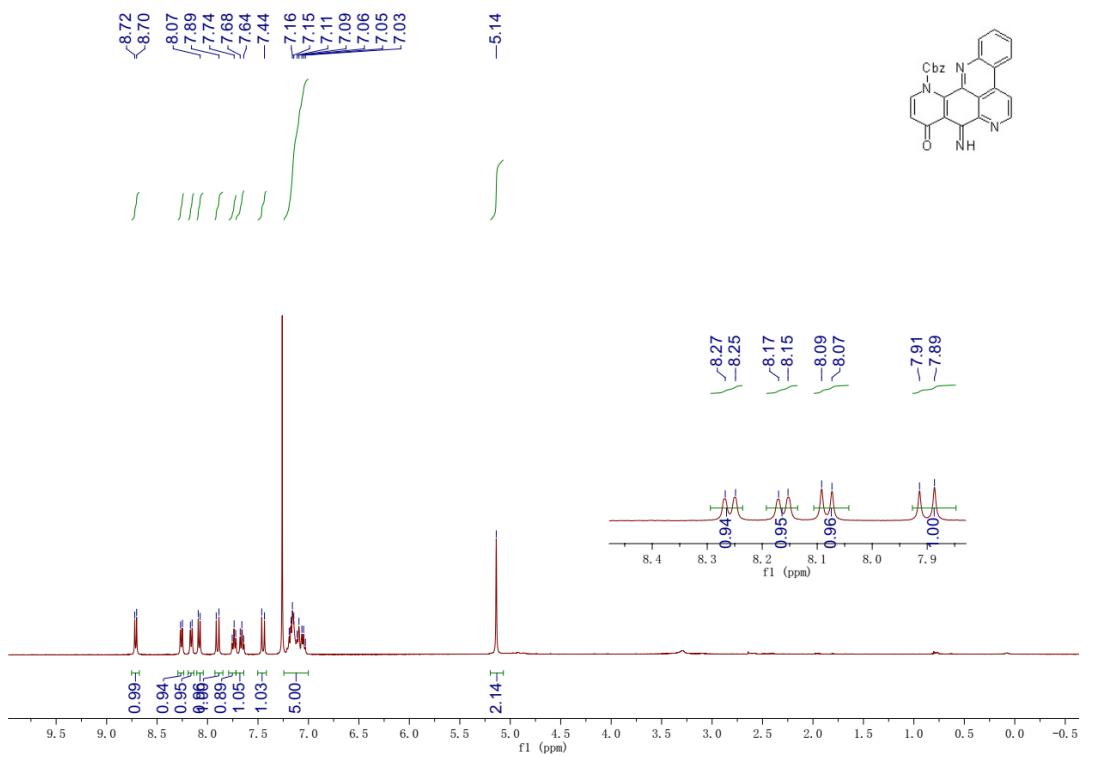
**<sup>13</sup>C{<sup>1</sup>H} NMR Spectrum of Compound 8-2 (100 MHz, CDCl<sub>3</sub>)**

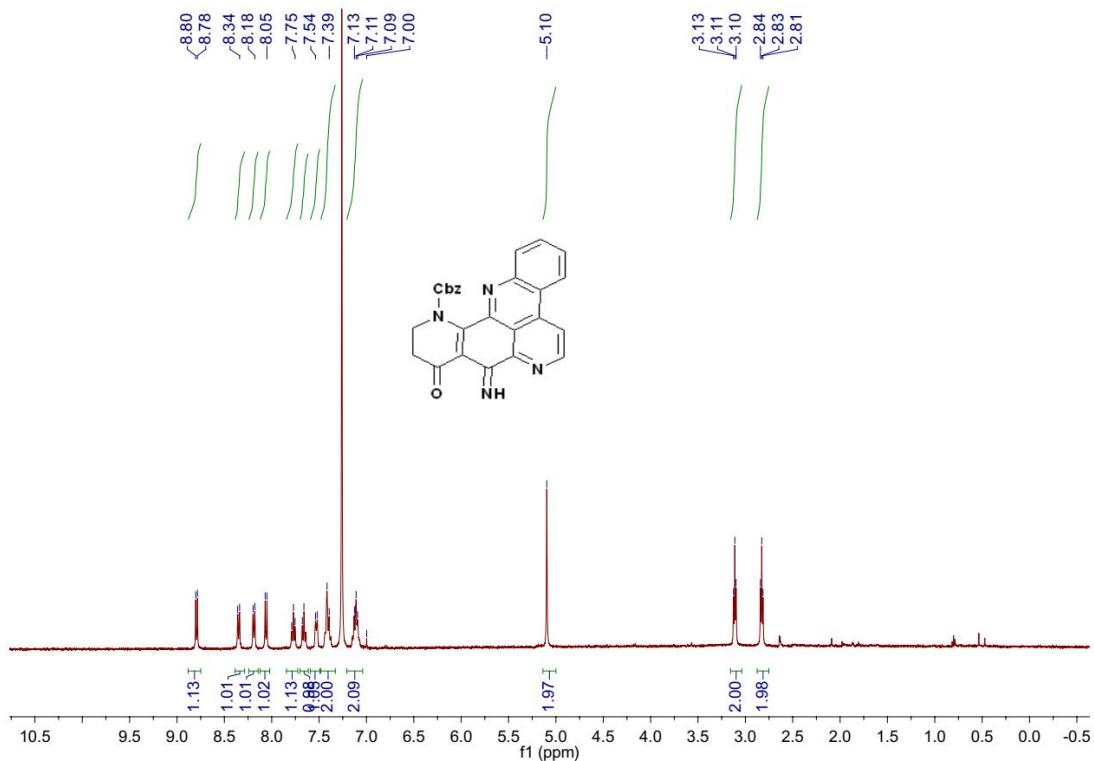


<sup>1</sup>H NMR Spectrum of Neolabuanine A (8) (400 MHz, DMSO-d<sub>6</sub>)

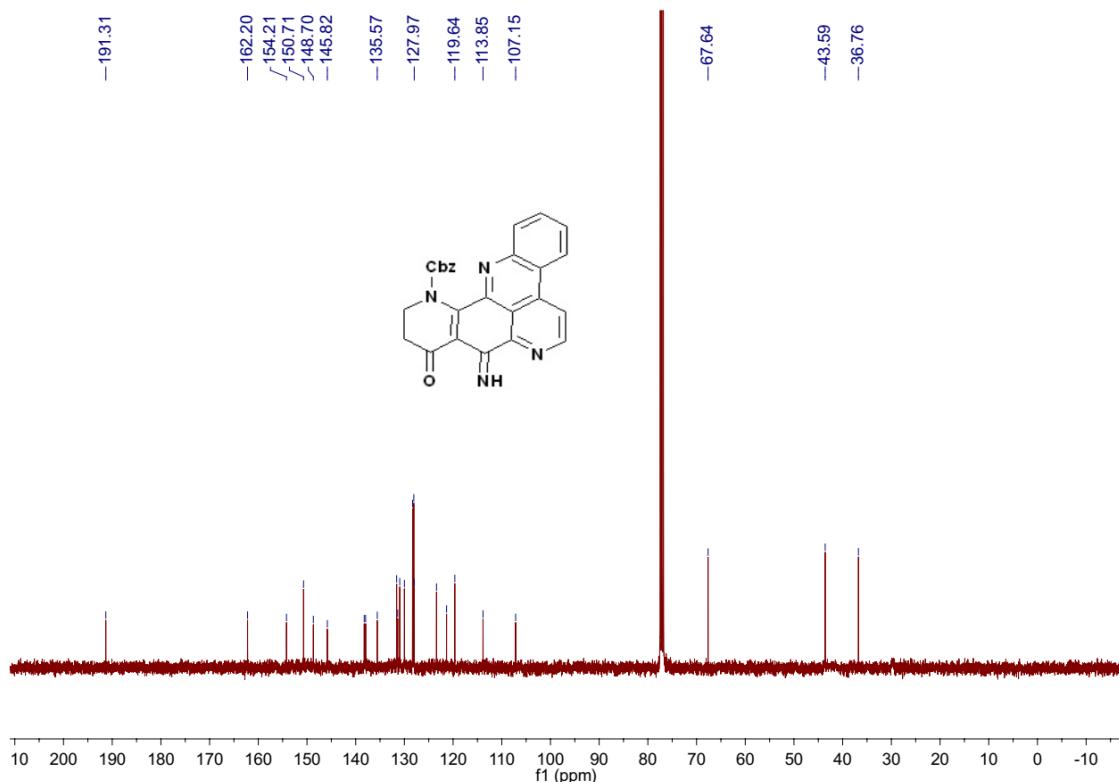


<sup>13</sup>C{<sup>1</sup>H} NMR Spectrum of Neolabuanine A (8) (100 MHz, DMSO-d<sub>6</sub>)

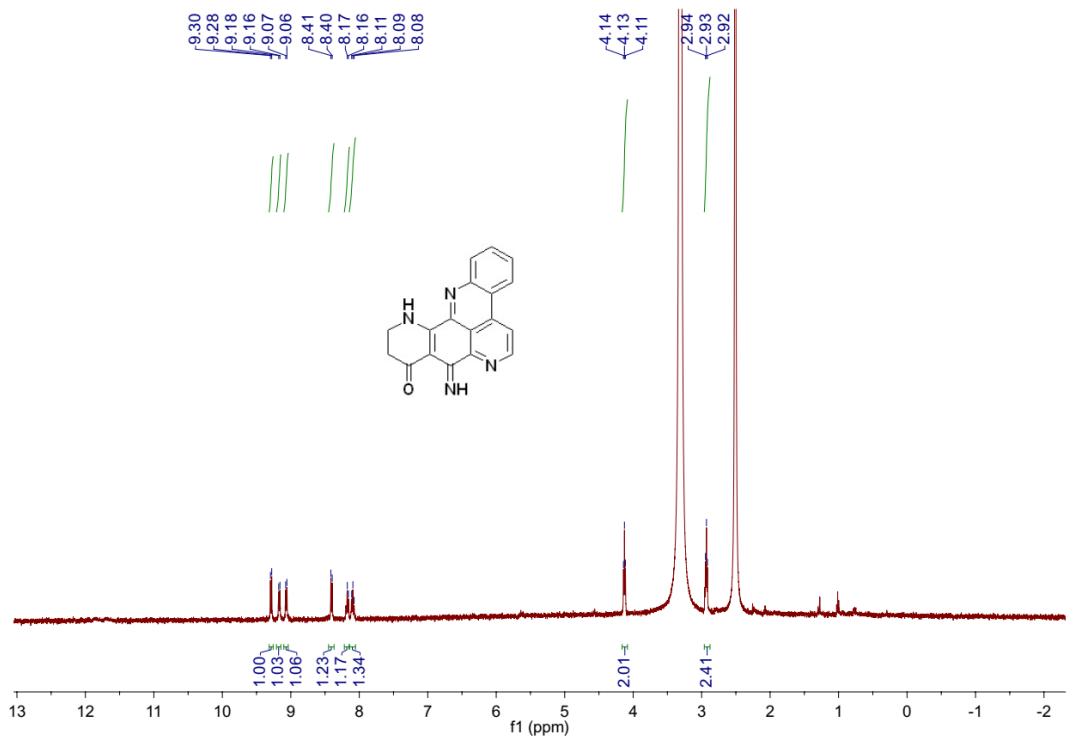




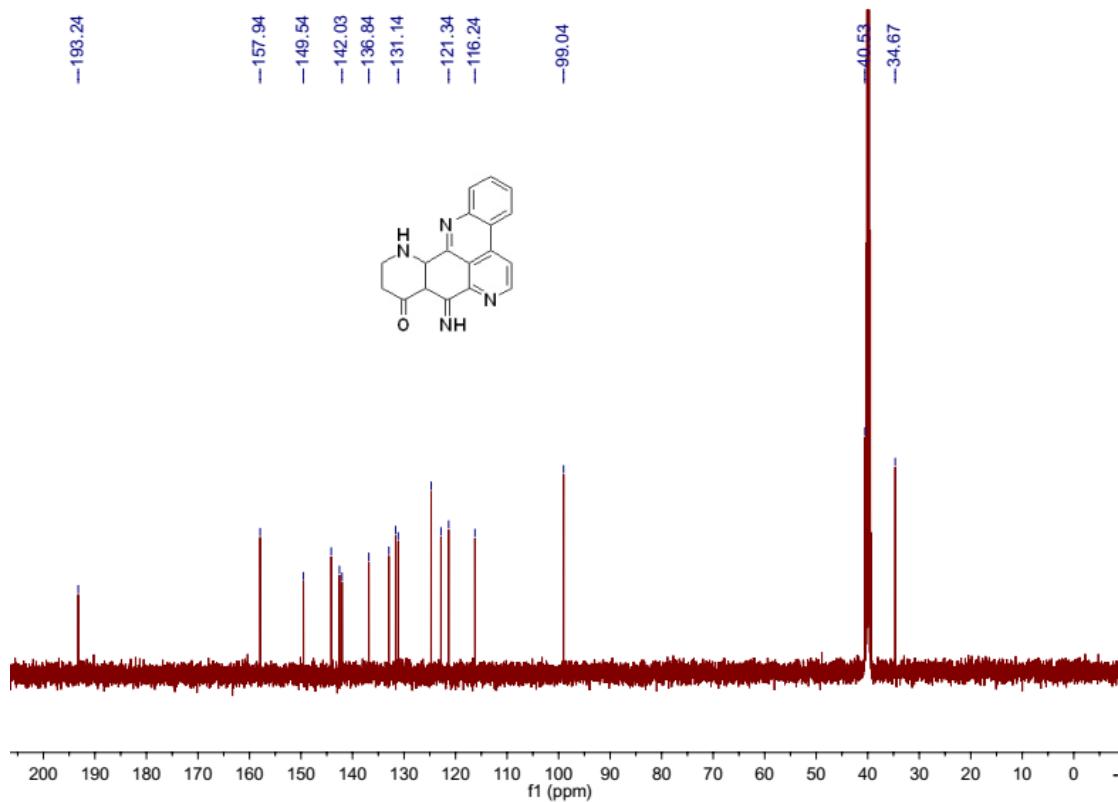
<sup>1</sup>H NMR Spectrum of Compound 9-2 (400 MHz, CDCl<sub>3</sub>)



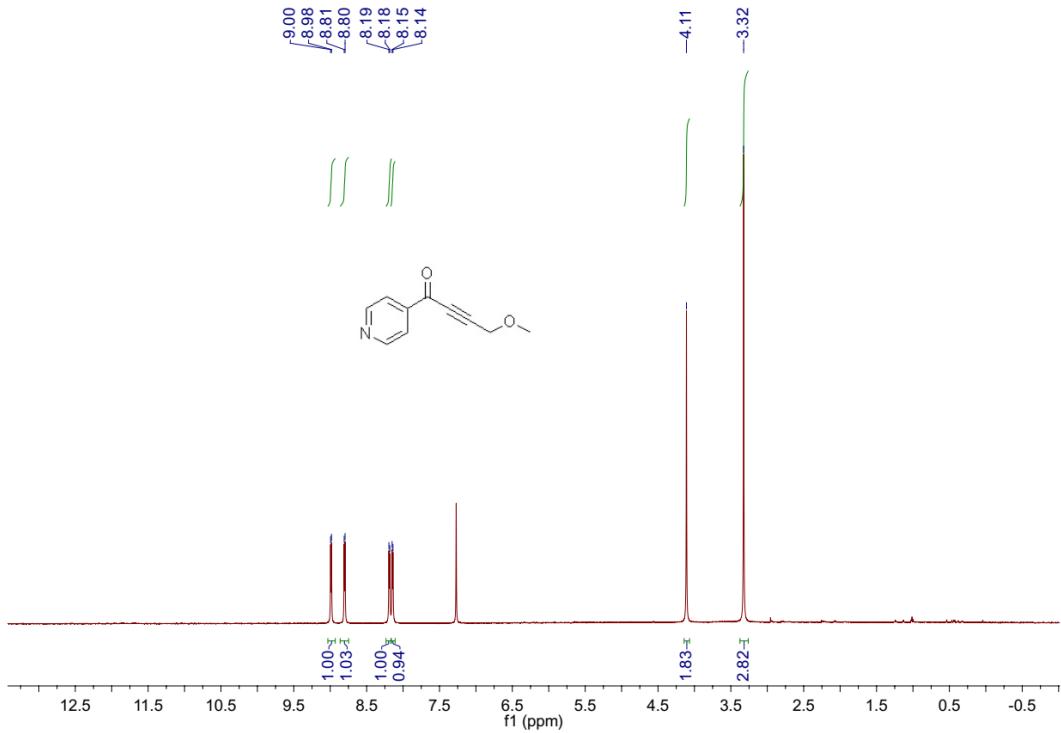
<sup>13</sup>C{<sup>1</sup>H} NMR Spectrum of Compound 9-2 (100 MHz, CDCl<sub>3</sub>)



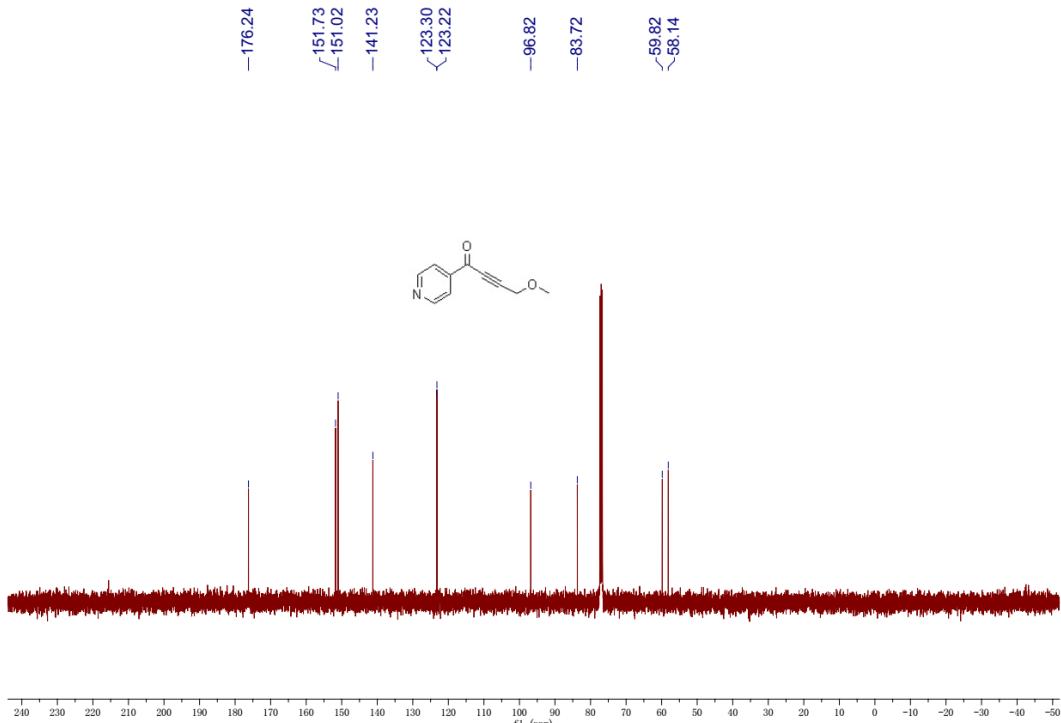
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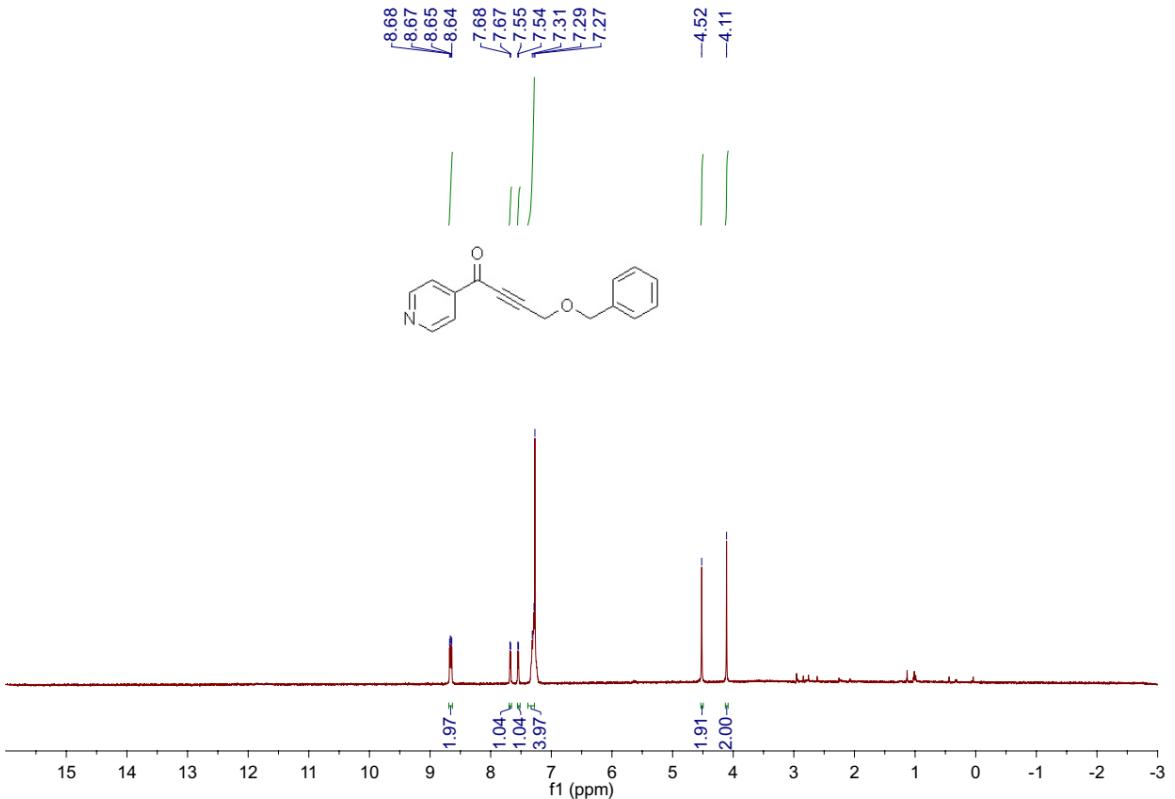
<sup>13</sup>C{<sup>1</sup>H} NMR Spectrum of Ecionine A (9) (100 MHz, DMSO-d<sub>6</sub>)



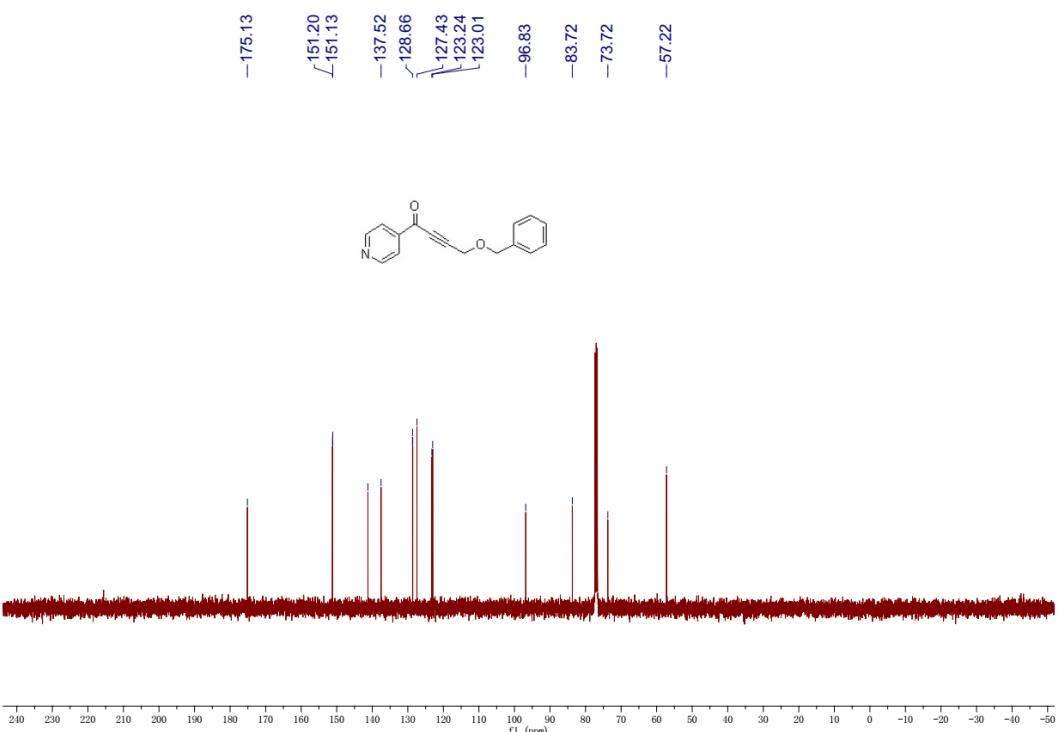
**<sup>1</sup>H NMR Spectrum of Compound 10aa (400 MHz, CDCl<sub>3</sub>)**



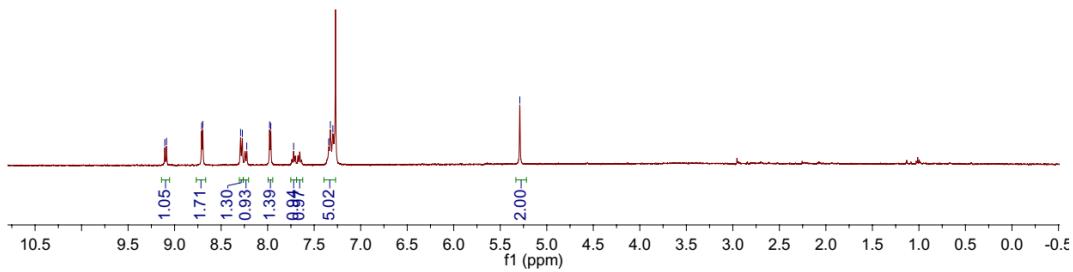
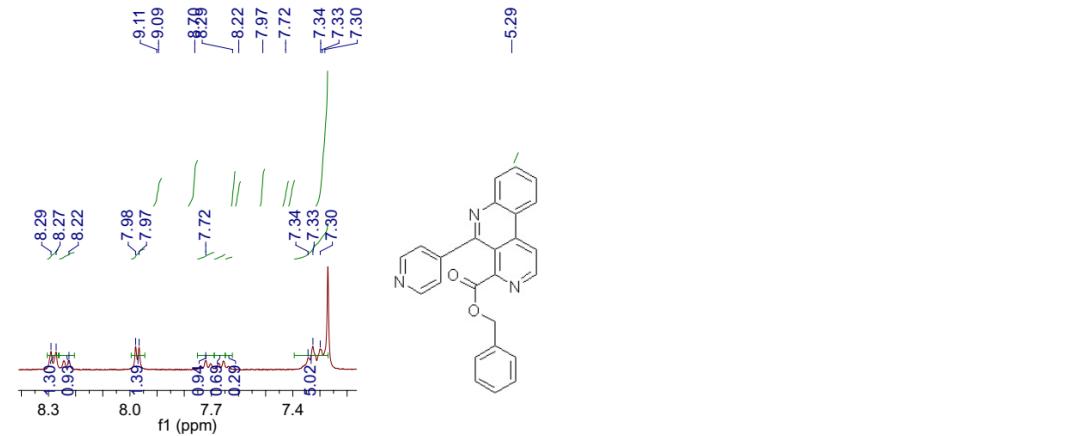
**<sup>13</sup>C{<sup>1</sup>H} NMR Spectrum of Compound 10aa (100 MHz, CDCl<sub>3</sub>)**



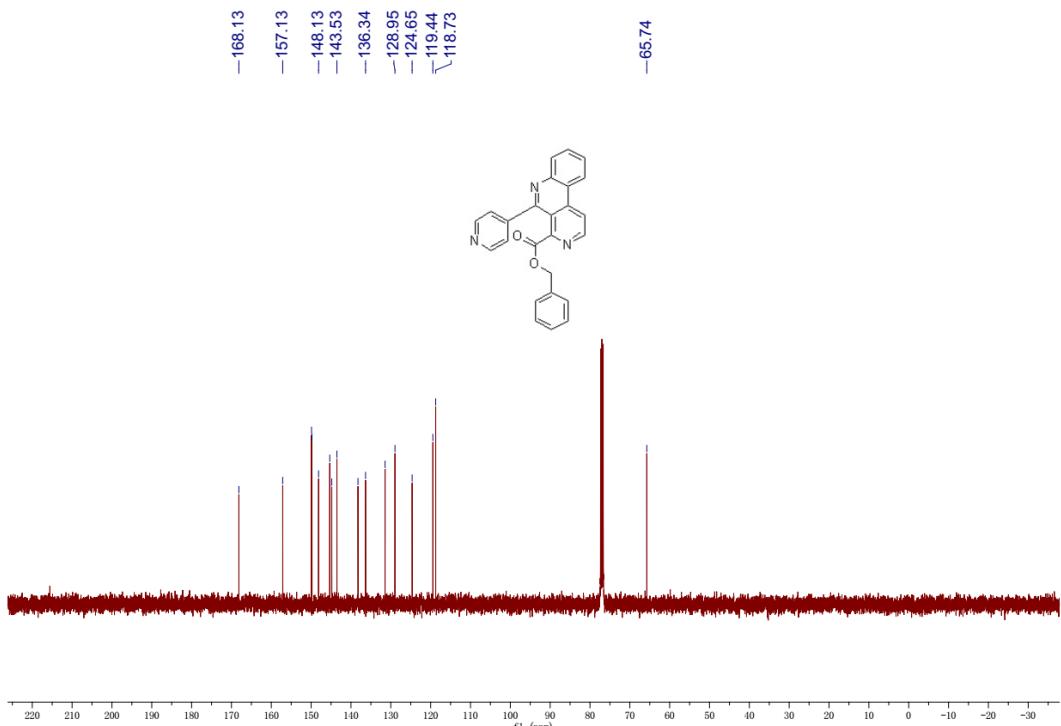
<sup>1</sup>H NMR Spectrum of Compound 10ab (400 MHz, CDCl<sub>3</sub>)



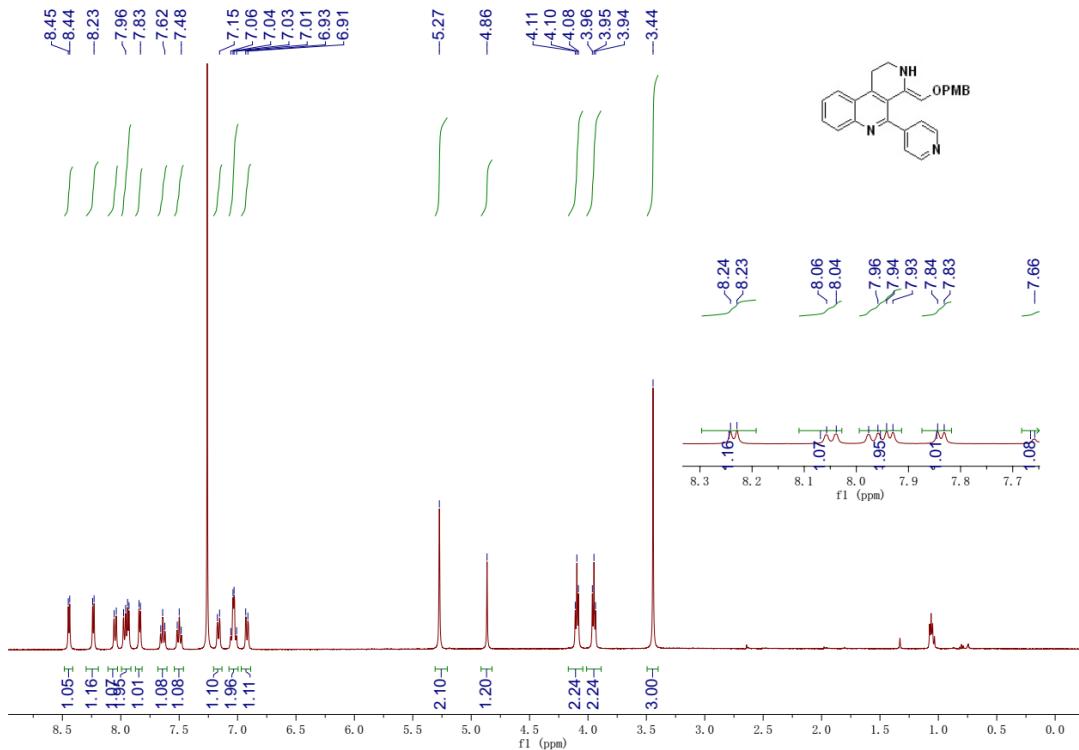
<sup>13</sup>C{<sup>1</sup>H} NMR Spectrum of Compound 10ab (100 MHz, CDCl<sub>3</sub>)



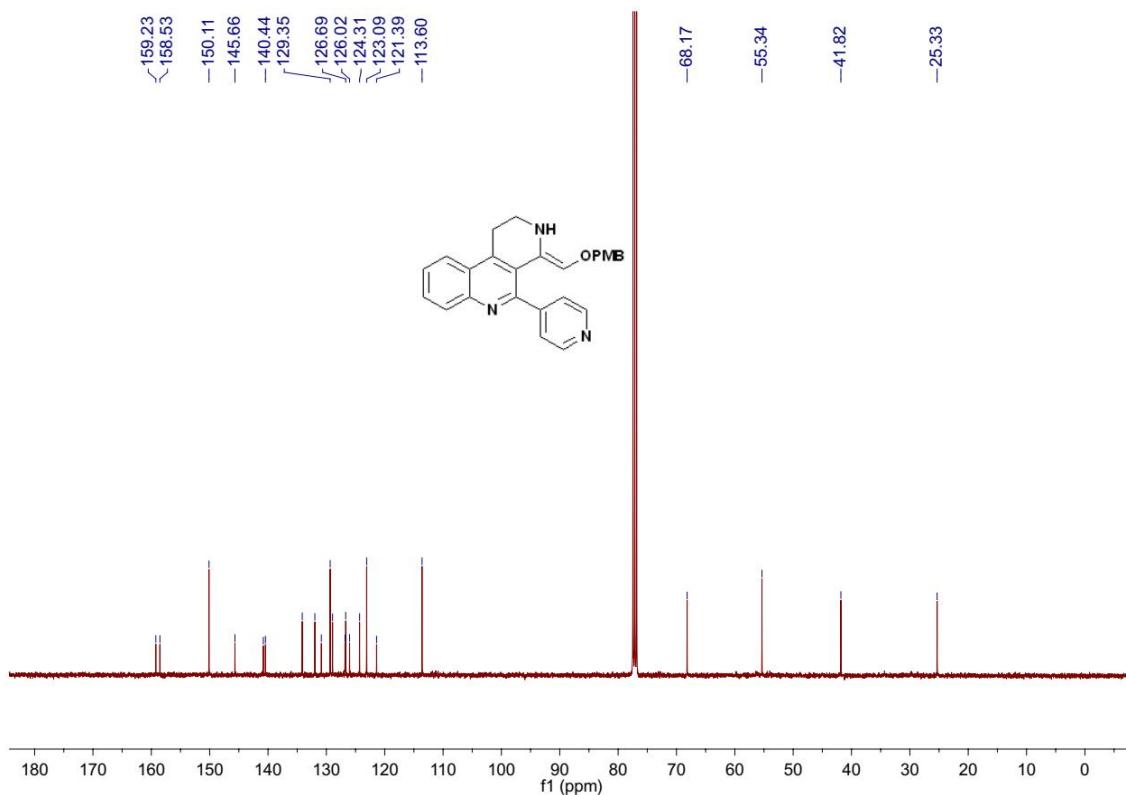
<sup>1</sup>H NMR Spectrum of Compound 11ab (400 MHz, CDCl<sub>3</sub>)



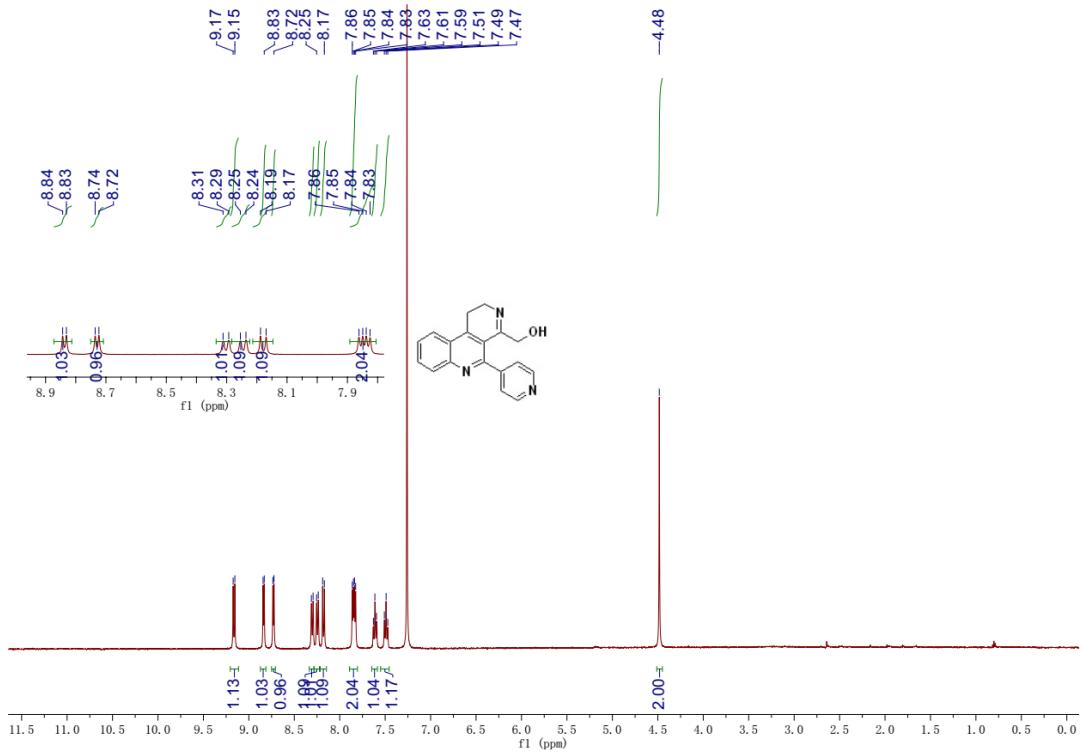
<sup>13</sup>C{<sup>1</sup>H} NMR Spectrum of Compound 11ab (100 MHz, CDCl<sub>3</sub>)



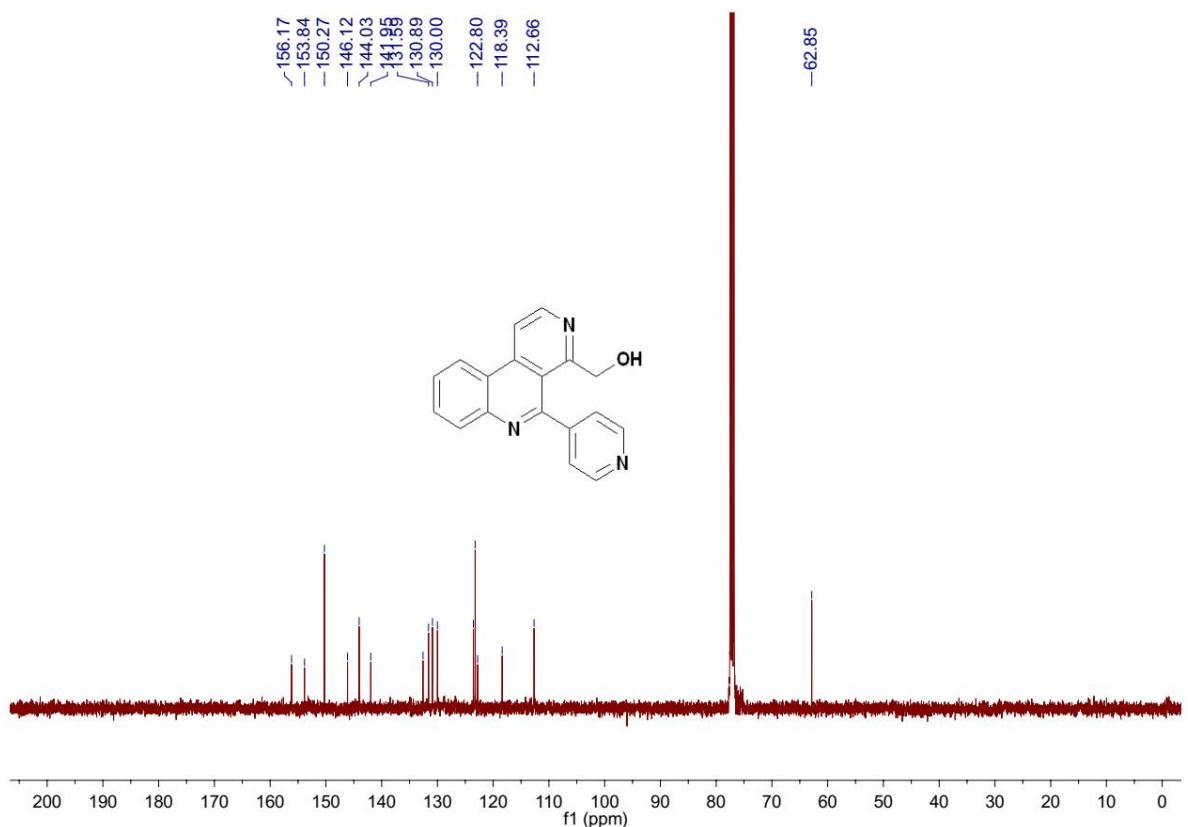
**<sup>1</sup>H NMR Spectrum of INT1 (400 MHz, CDCl<sub>3</sub>)**



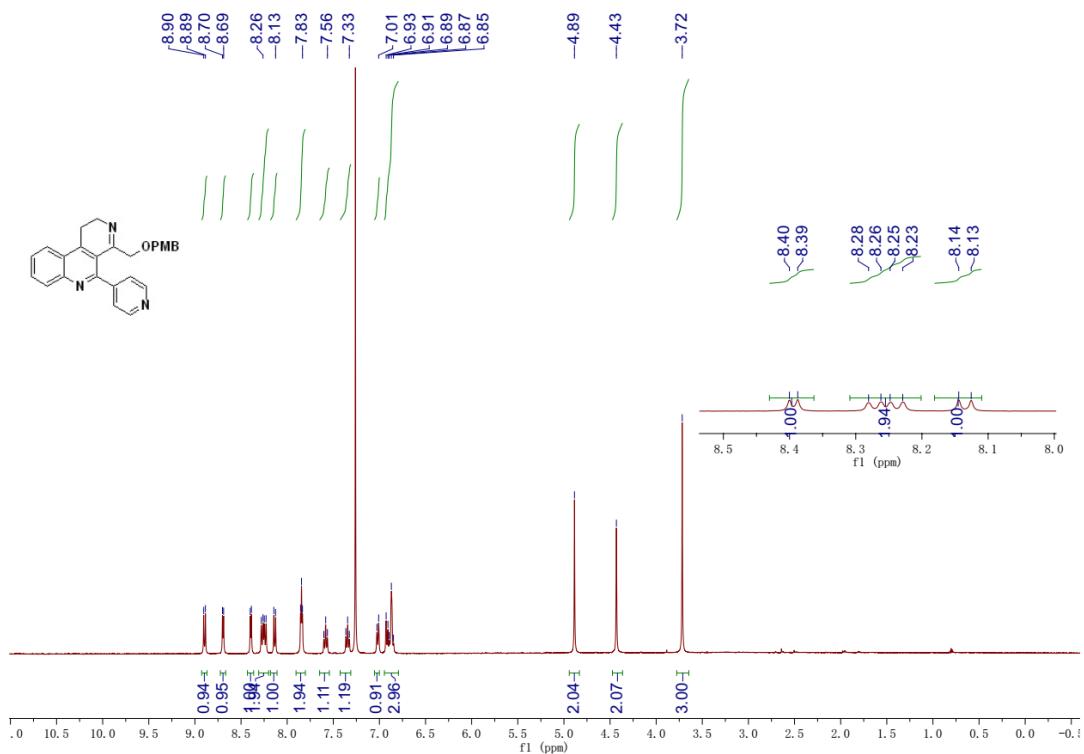
**<sup>13</sup>C{<sup>1</sup>H} NMR Spectrum of INT1 (100 MHz, CDCl<sub>3</sub>)**



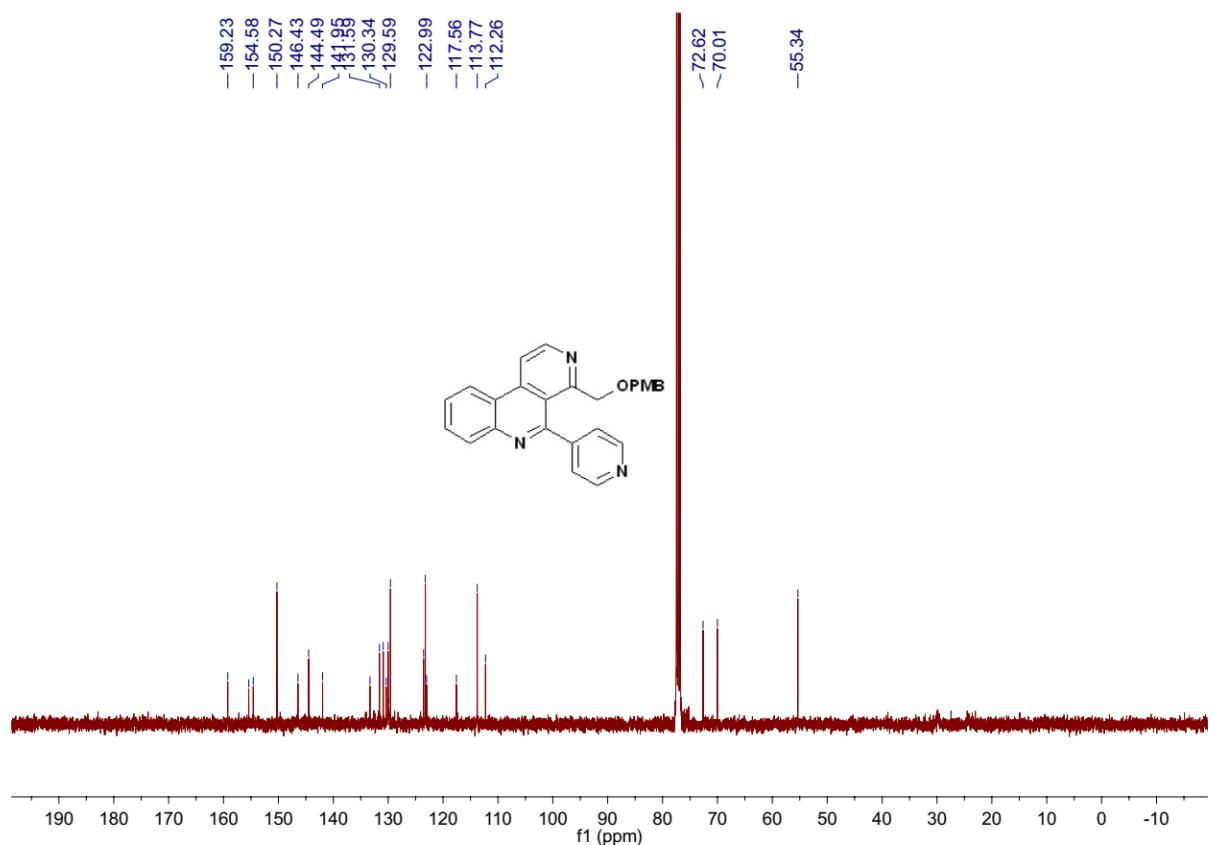
**<sup>1</sup>H NMR Spectrum of INT2-1 (400 MHz, CDCl<sub>3</sub>)**



**$^{13}\text{C}\{^1\text{H}\}$  NMR Spectrum of INT2-1 (100 MHz,  $\text{CDCl}_3$ )**



**$^1\text{H}$  NMR Spectrum of INT2 (400 MHz,  $\text{CDCl}_3$ )**



**$^{13}\text{C}\{^1\text{H}\}$  NMR Spectrum of INT2 (100 MHz,  $\text{CDCl}_3$ )**