

## Supporting Information

# **A Facile Ugi/Ullmann Cascade Reaction to Access Fused Indazolo-Quinoxaline Derivatives with Potent Anticancer Activity**

Yong Li <sup>1,2</sup>, Liu-Jun He<sup>1</sup>, Hong-Xia Qin<sup>1\*</sup>, Yao Liu<sup>1</sup>, Bin-Xin Yang<sup>1</sup>, Zhi-Gang Xu<sup>1</sup>, Dong-Lin Yang<sup>1\*</sup>

<sup>1</sup> College of Pharmacy, National & Local Joint Engineering Research Center of Targeted and Innovative Therapeutics, Chongqing Key Laboratory of Kinase Modulators as Innovative Medicine, Chongqing University of Arts and Sciences, Chongqing 402160, China

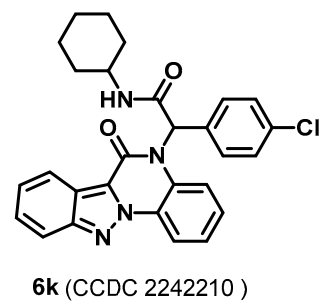
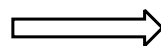
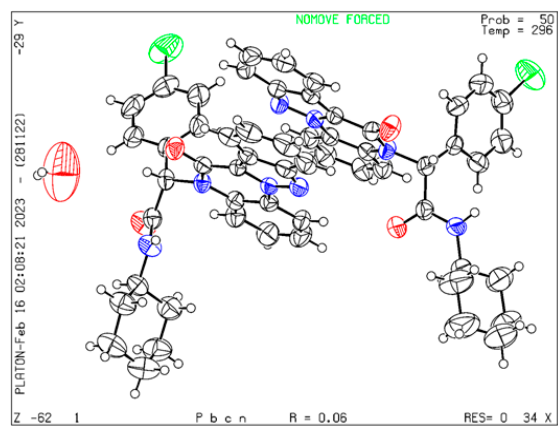
<sup>2</sup> School of Chemistry and Chemical Engineering, Southwest University, Chongqing 400715, China

Correspondence: 17320489614@163.com (H.-X.Q.)  
dlyang@cqwu.edu.cn (D.-L.Y.)

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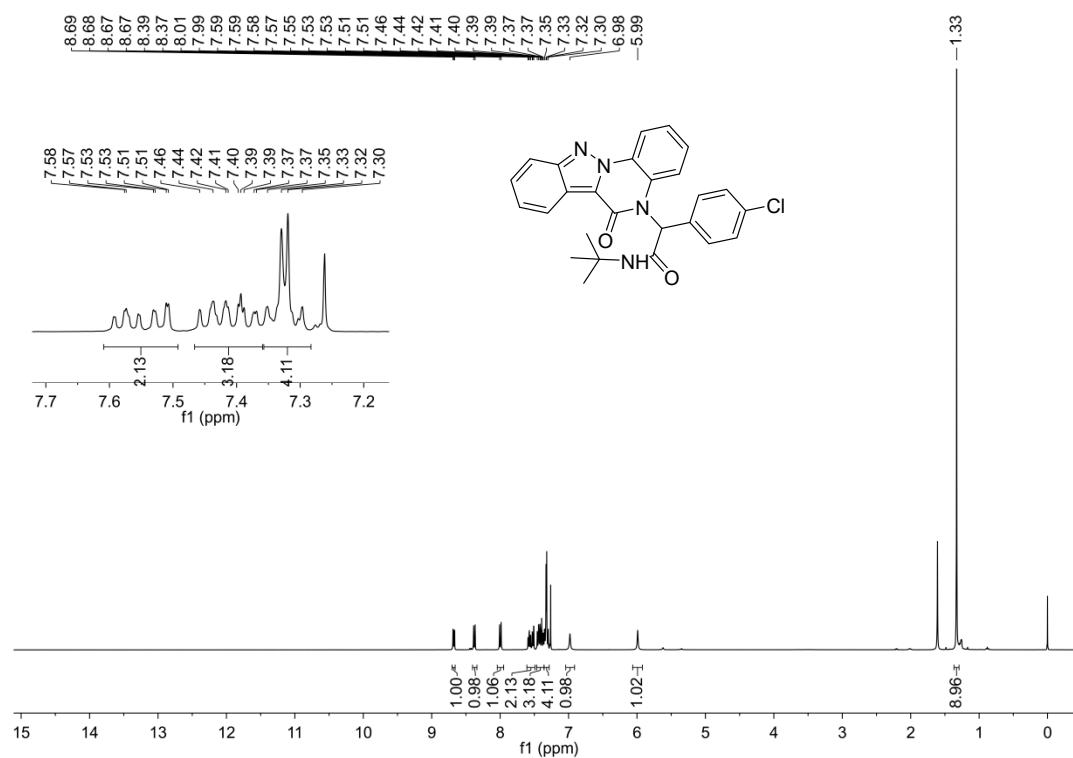
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## 1. X-Ray crystal data for compounds **6k**

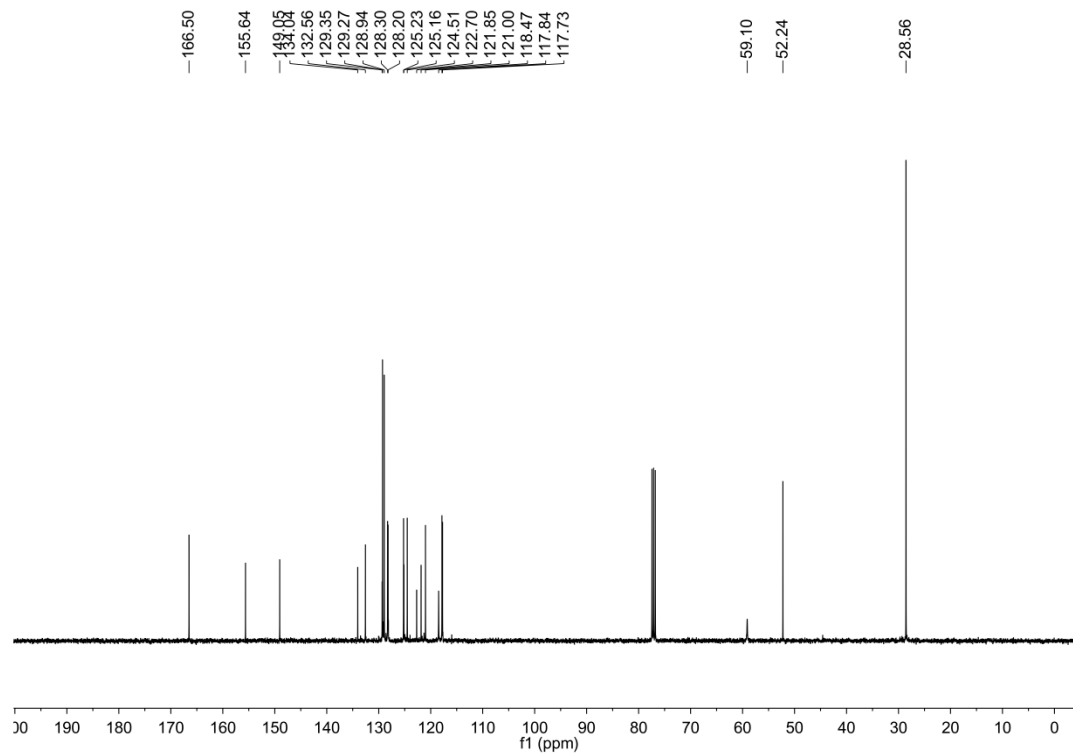


2.  $^1\text{H}$  and  $^{13}\text{C}$  NMR spectra for compounds **6**

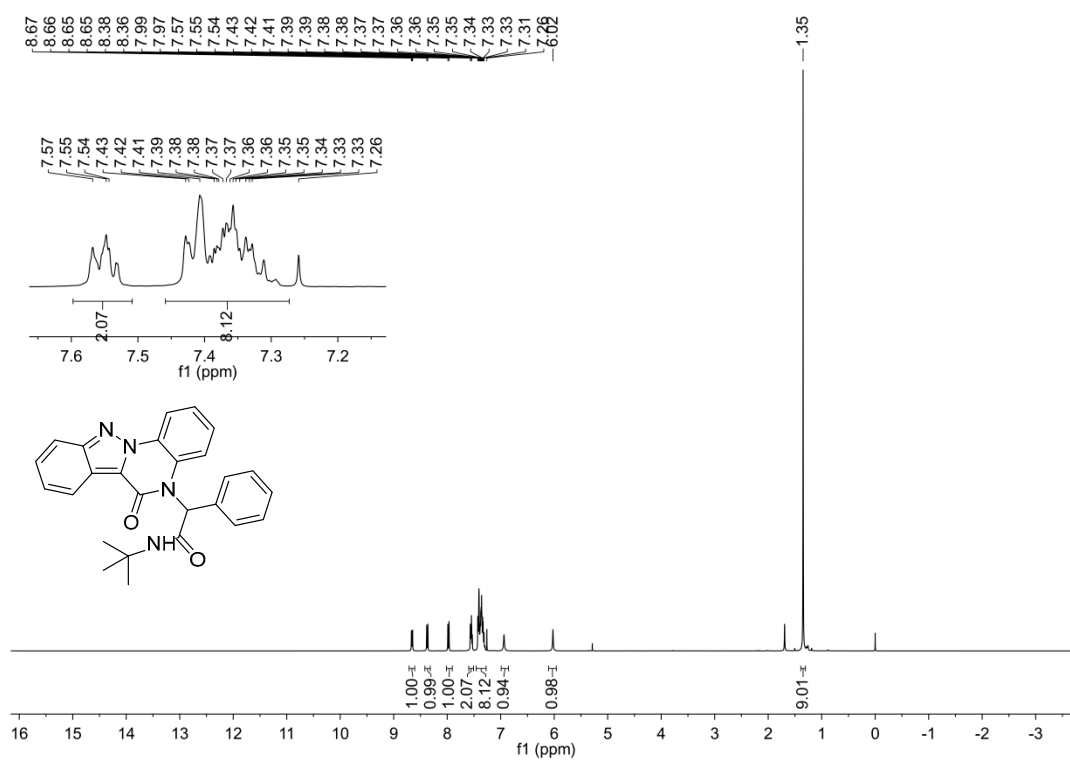
$^1\text{H}$  NMR spectrum of **6a** (400 MHz,  $\text{CDCl}_3$ )



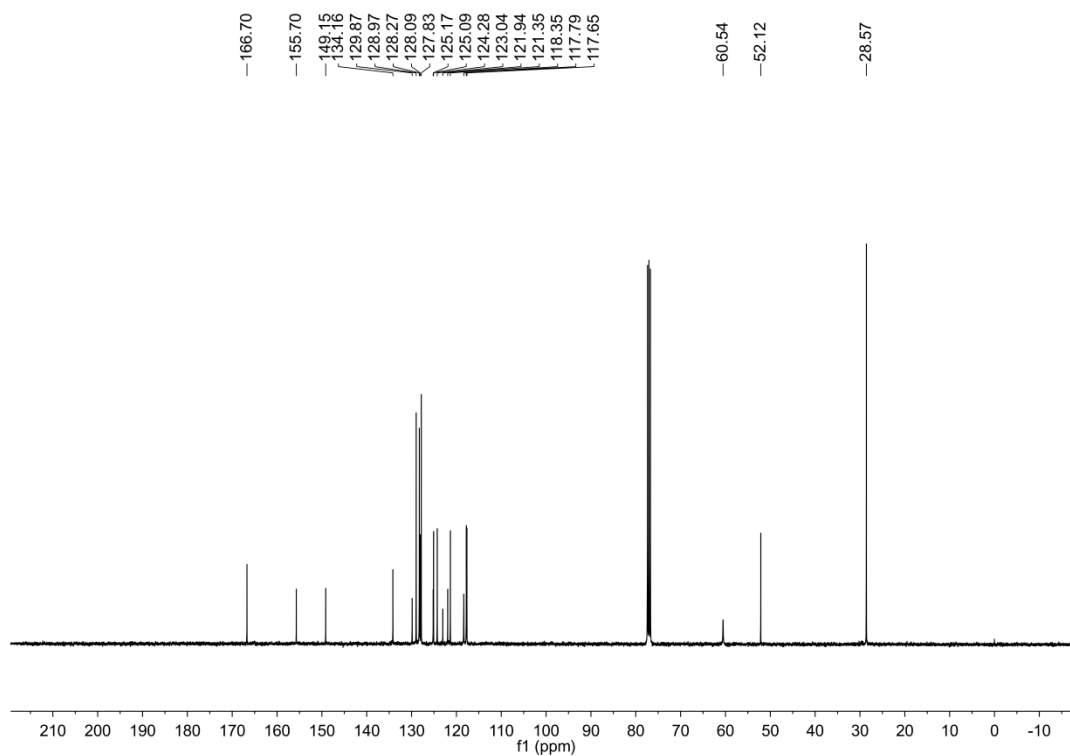
$^{13}\text{C}$  NMR spectrum of **6a** (101 MHz,  $\text{CDCl}_3$ )



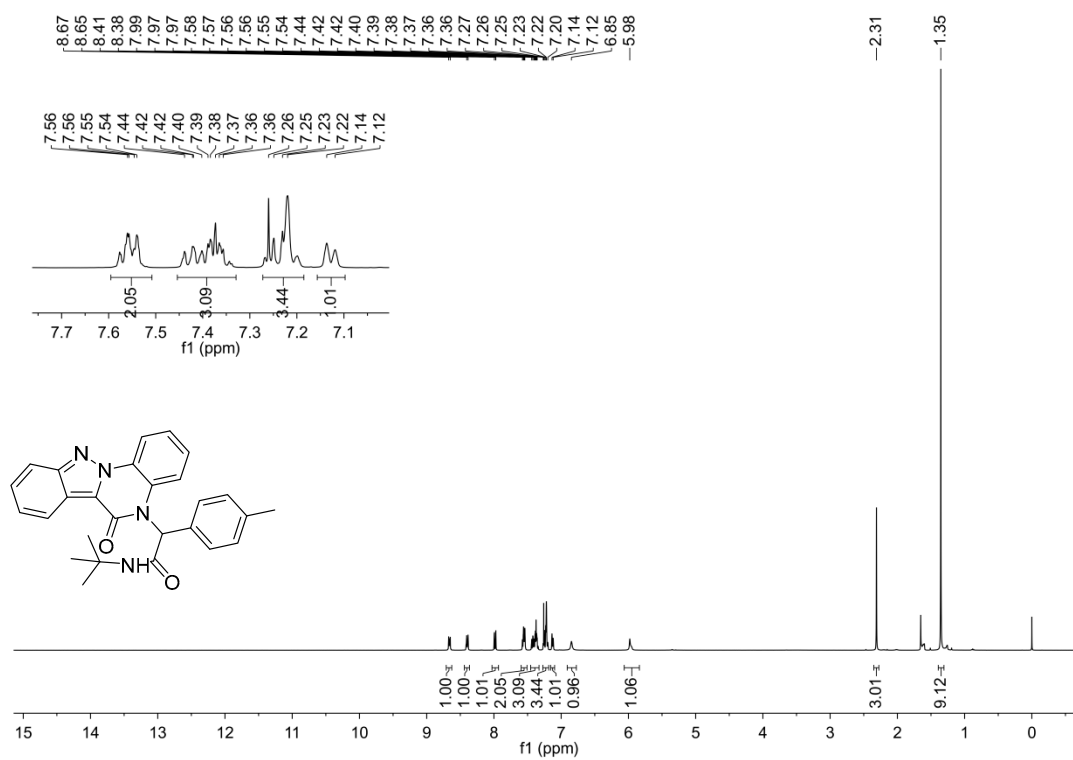
$^1\text{H}$  NMR spectrum of **6b** (400 MHz,  $\text{CDCl}_3$ )



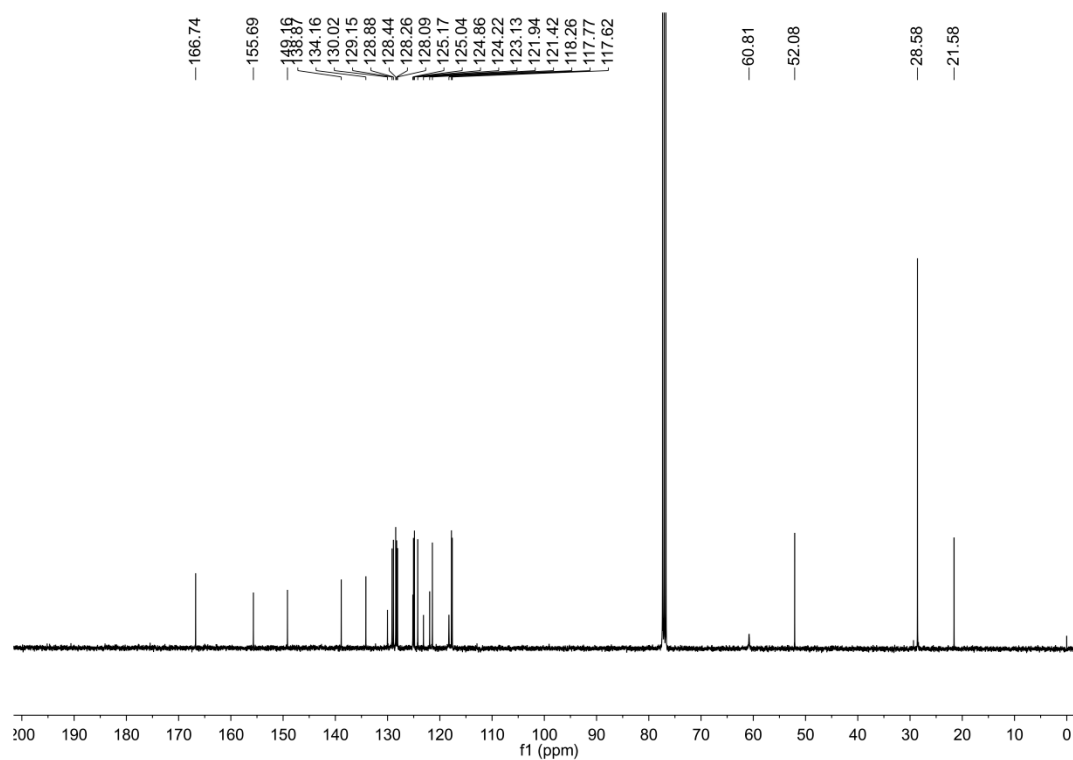
$^{13}\text{C}$  NMR spectrum of **6b** (101 MHz,  $\text{CDCl}_3$ )



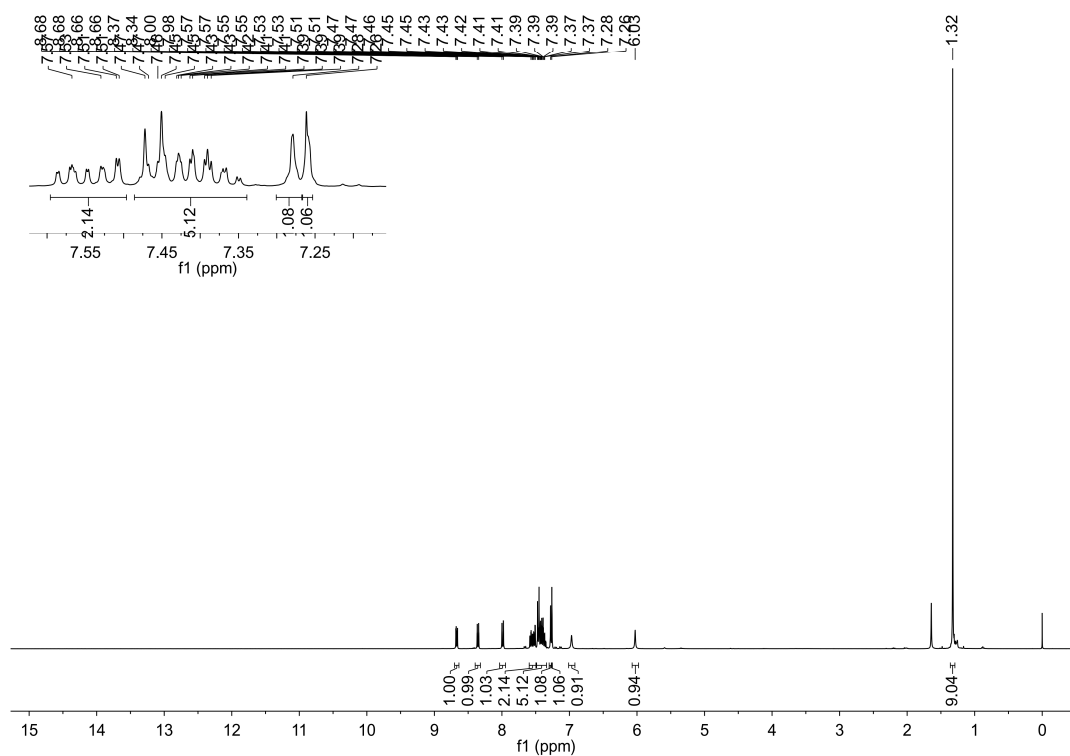
<sup>1</sup>H NMR spectrum of **6c** (400 MHz, CDCl<sub>3</sub>)



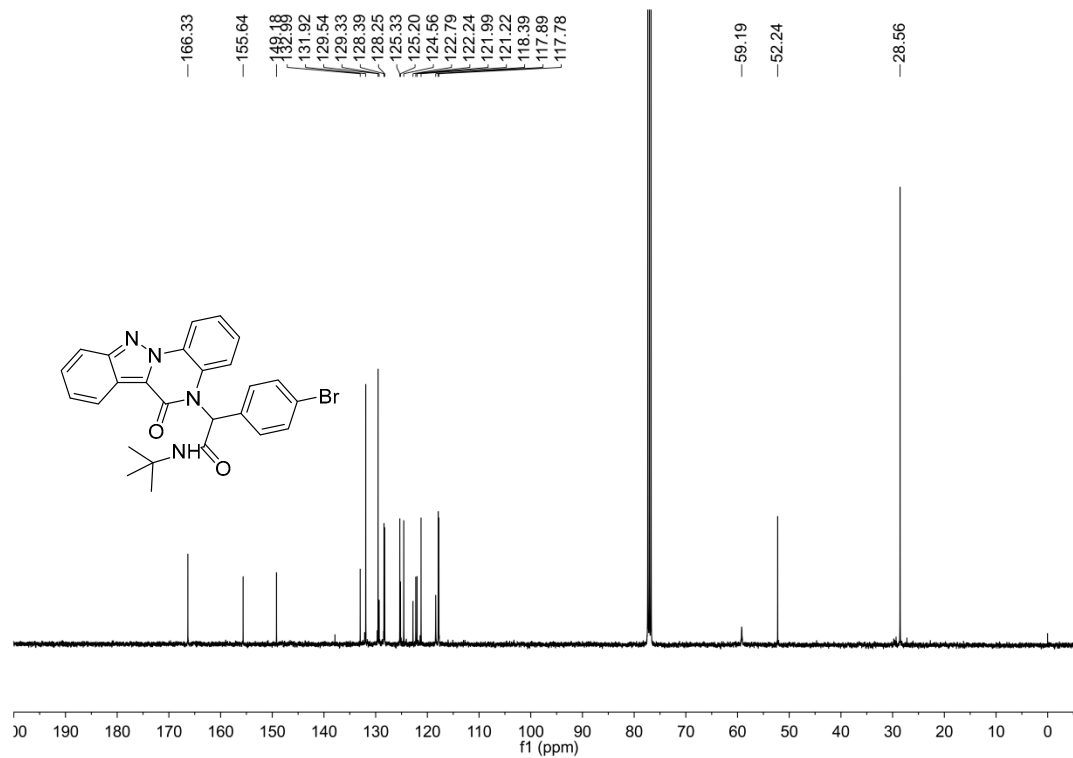
<sup>13</sup>C NMR spectrum of **6c** (101 MHz, CDCl<sub>3</sub>)



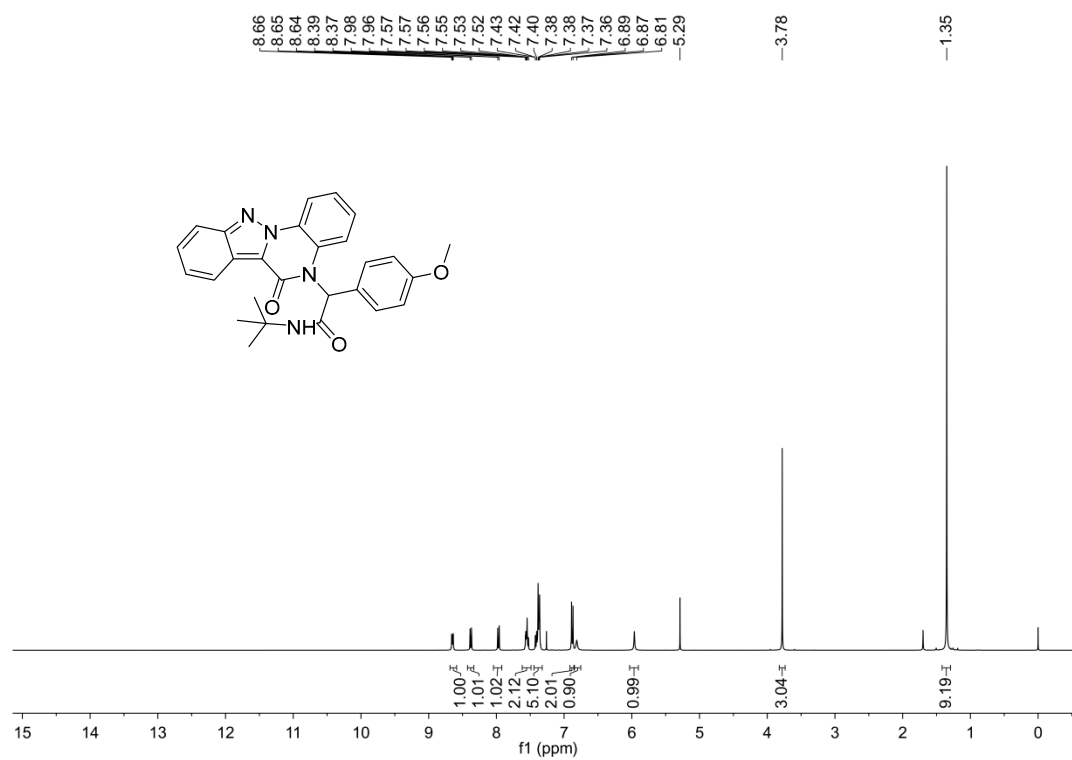
$^1\text{H}$  NMR spectrum of **6d** (400 MHz,  $\text{CDCl}_3$ )



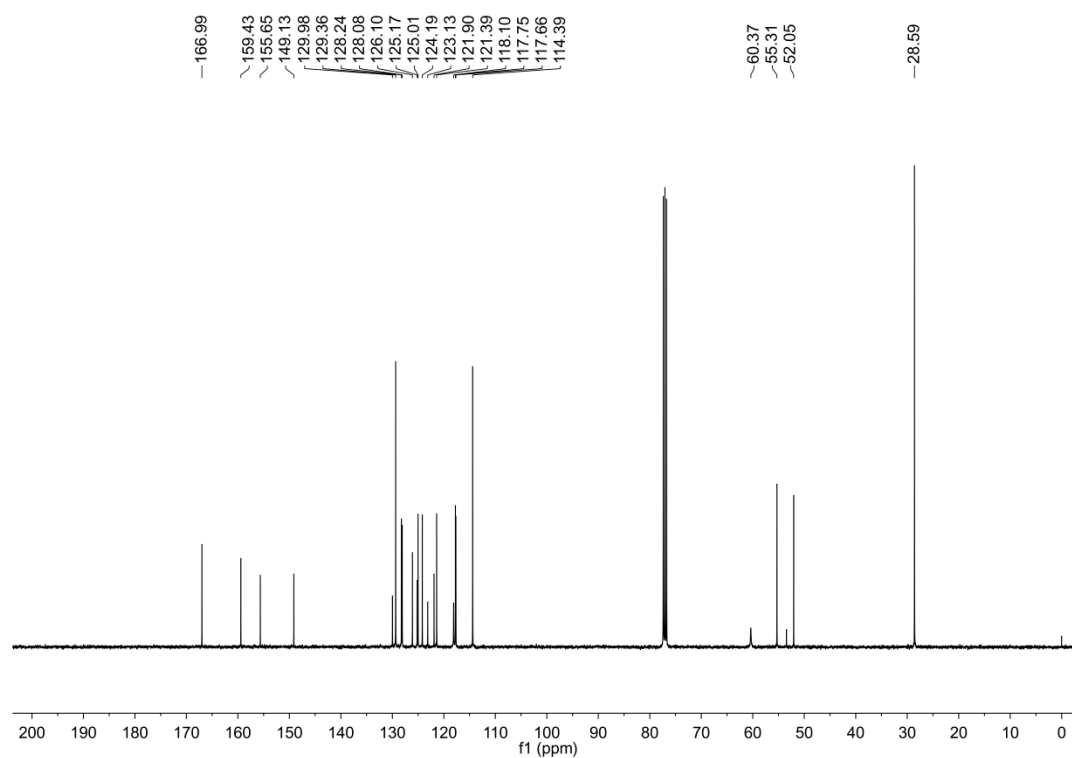
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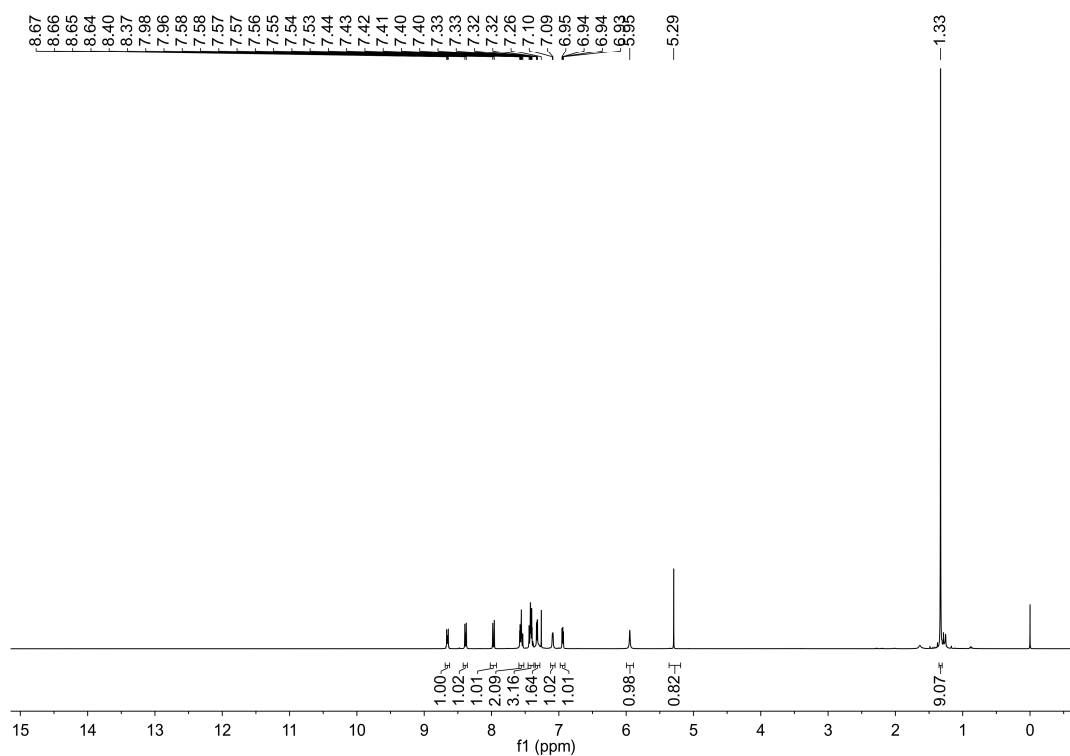
<sup>1</sup>H NMR spectrum of **6e** (400 MHz, CDCl<sub>3</sub>)



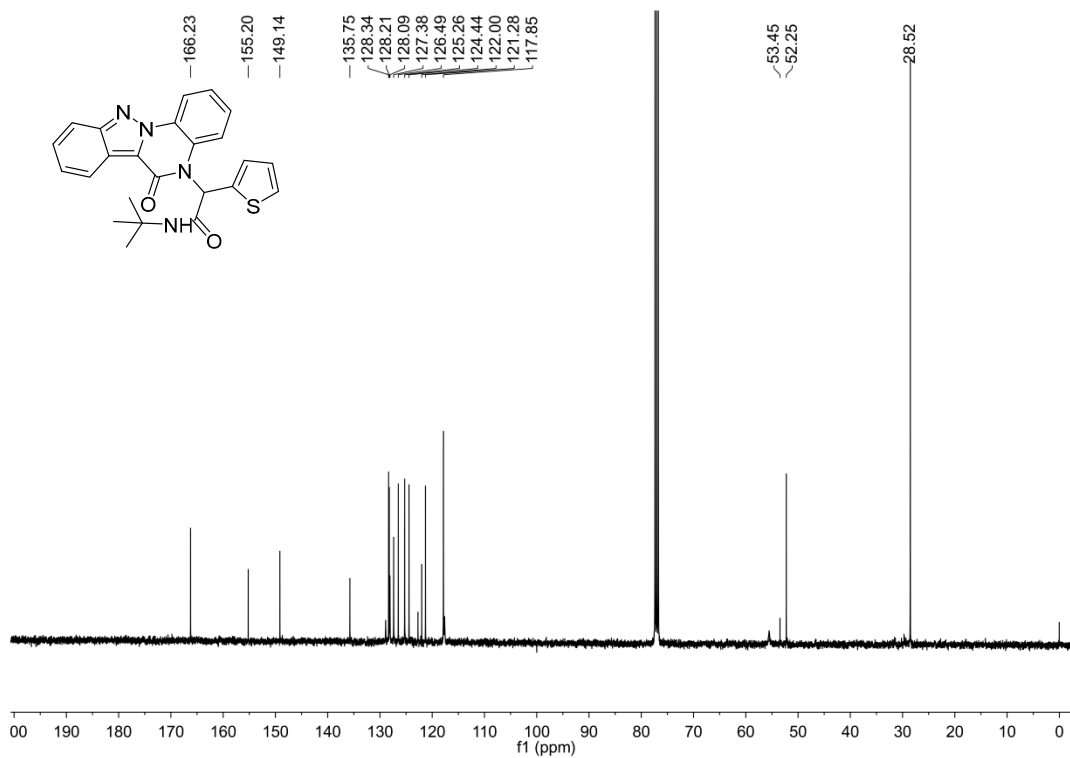
<sup>13</sup>C NMR spectrum of **6e** (101 MHz, CDCl<sub>3</sub>)



<sup>1</sup>H NMR spectrum of **6f** (101 MHz, CDCl<sub>3</sub>)

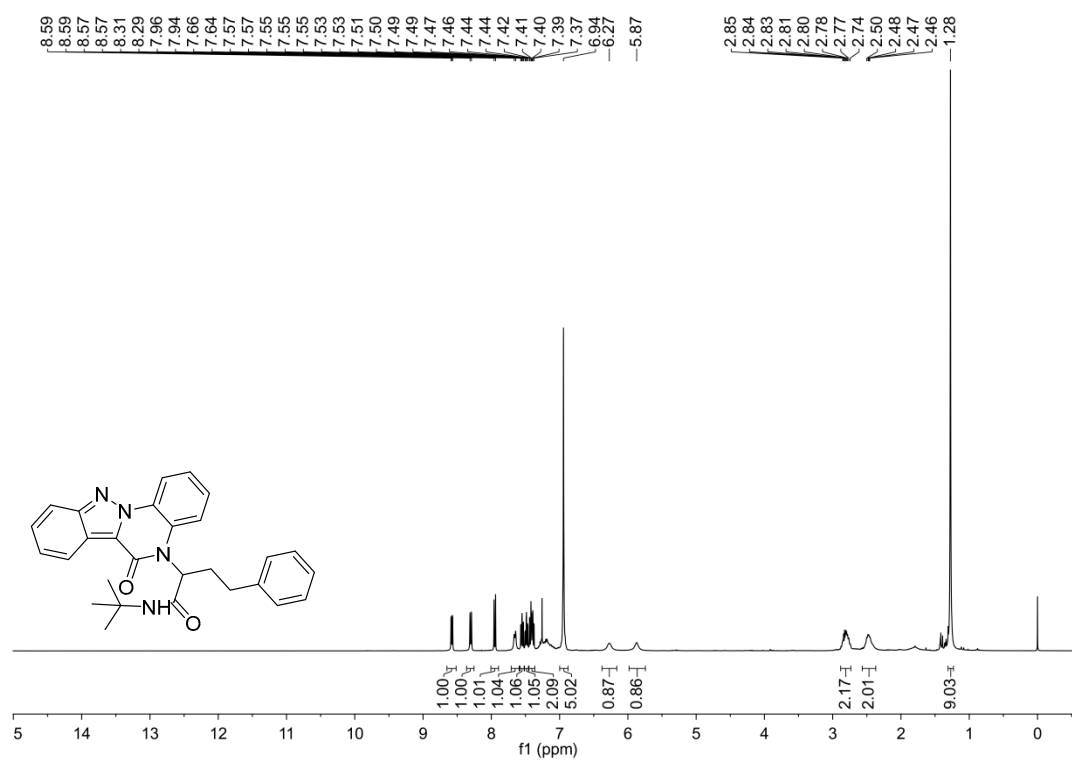


<sup>13</sup>C NMR spectrum of **6f** (101 MHz, CDCl<sub>3</sub>)

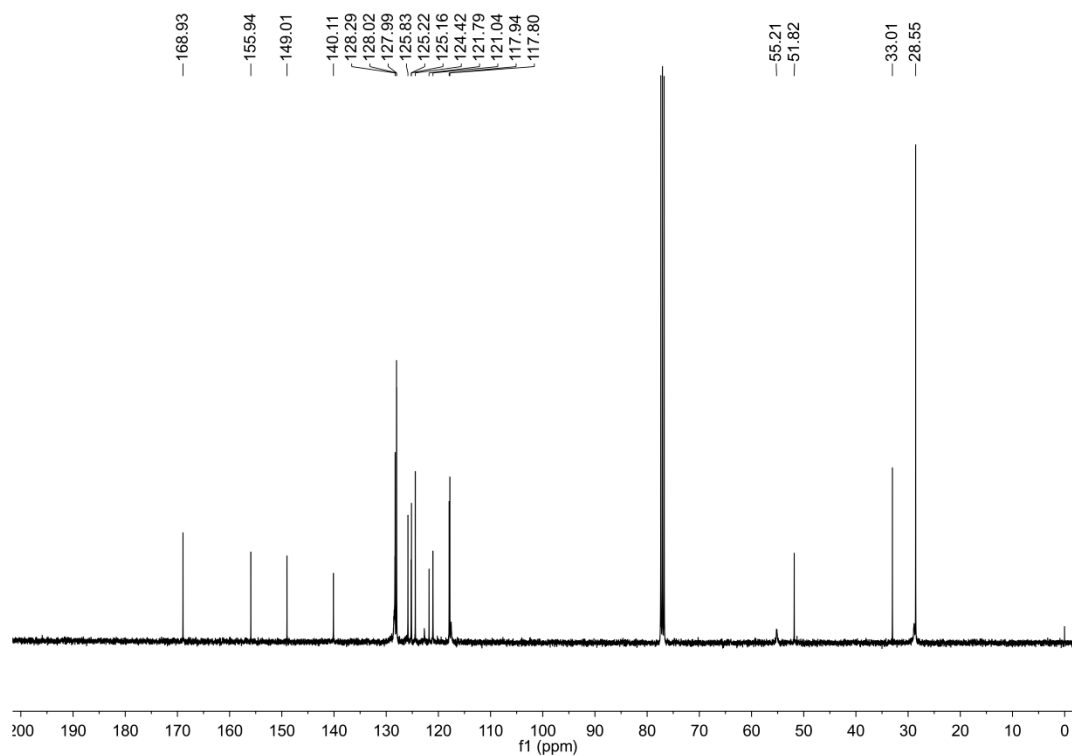




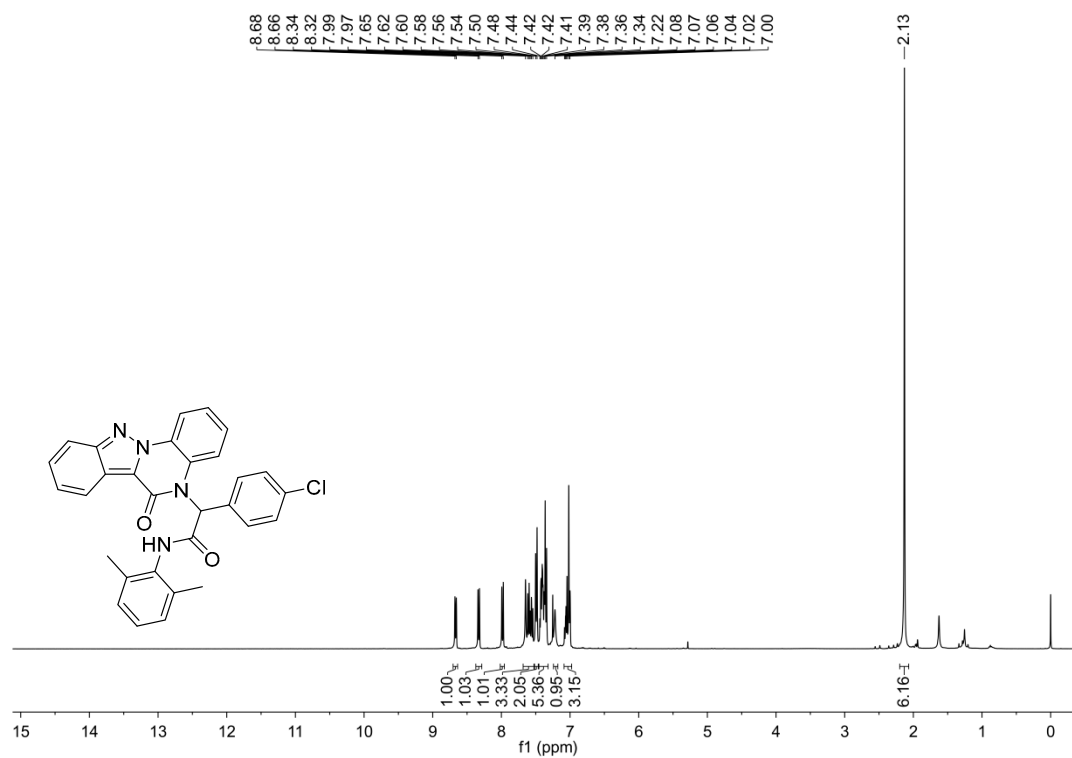
<sup>1</sup>H NMR spectrum of **6g** (400 MHz, CDCl<sub>3</sub>)



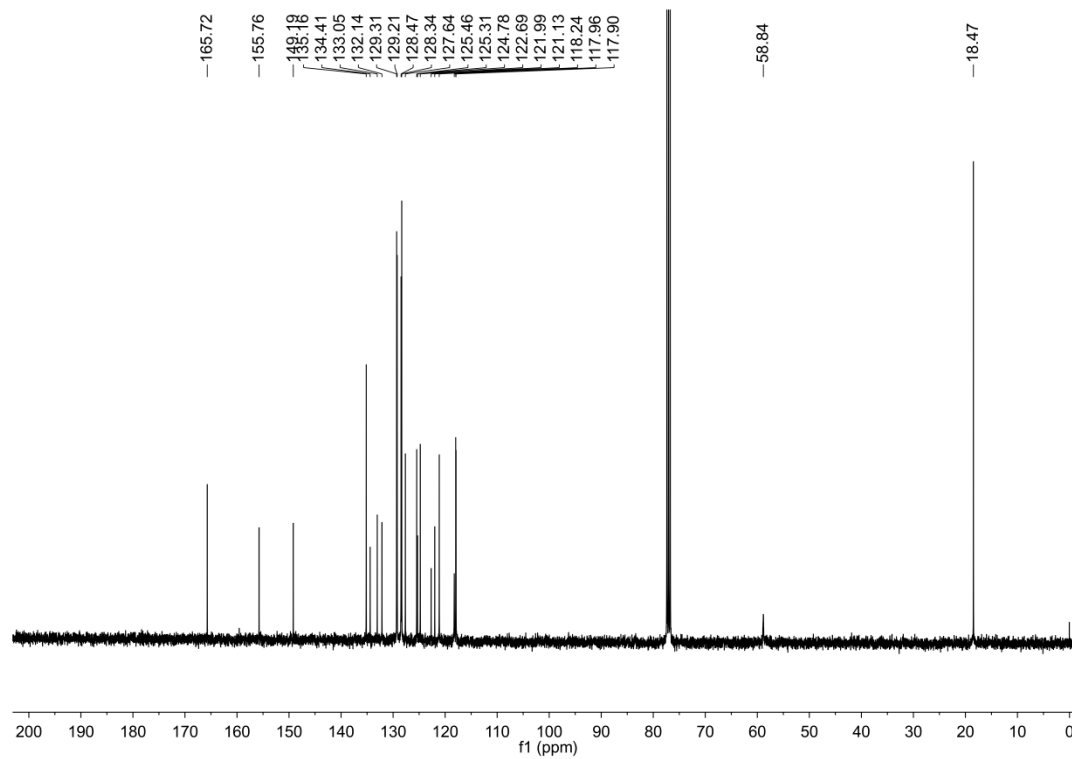
<sup>13</sup>C NMR spectrum of **6g** (101 MHz, CDCl<sub>3</sub>)



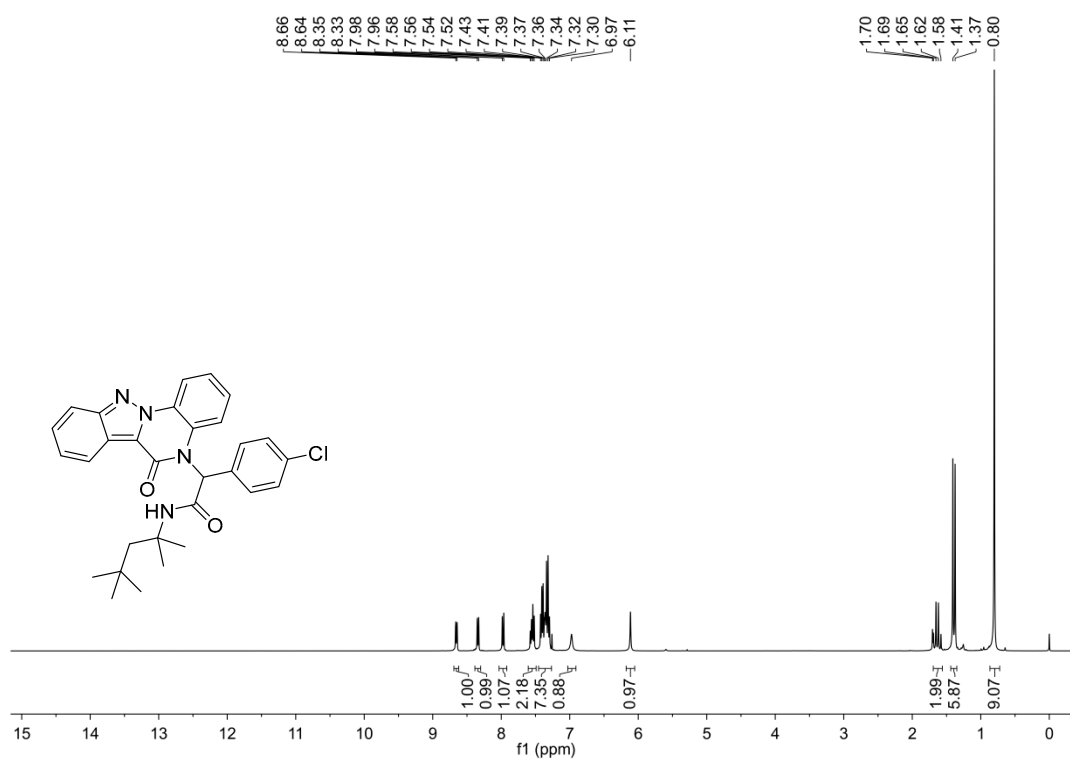
<sup>1</sup>H NMR spectrum of **6h** (400 MHz, CDCl<sub>3</sub>)



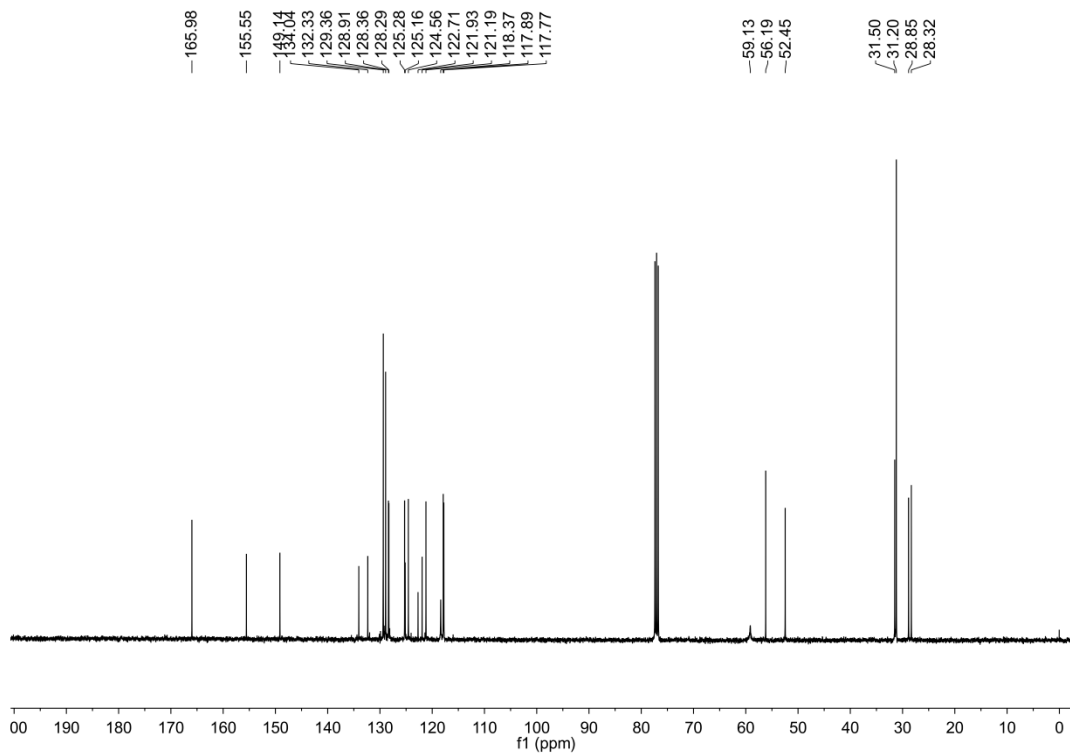
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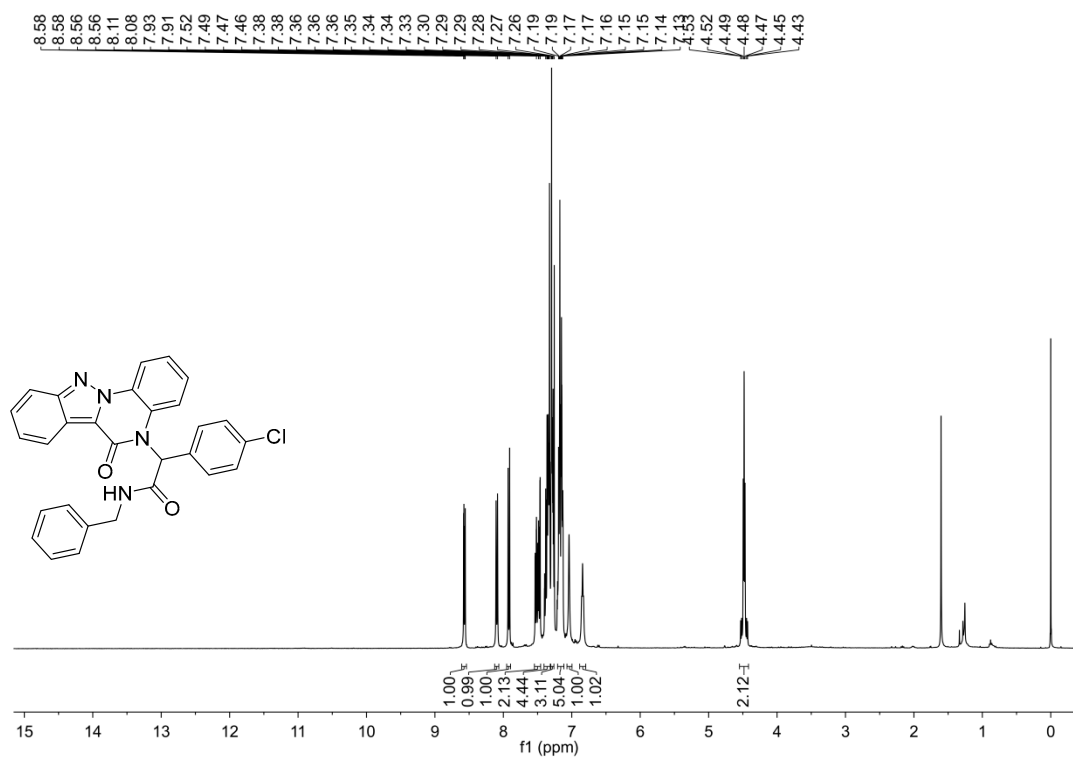
<sup>1</sup>H NMR spectrum of **6i** (400 MHz, CDCl<sub>3</sub>)



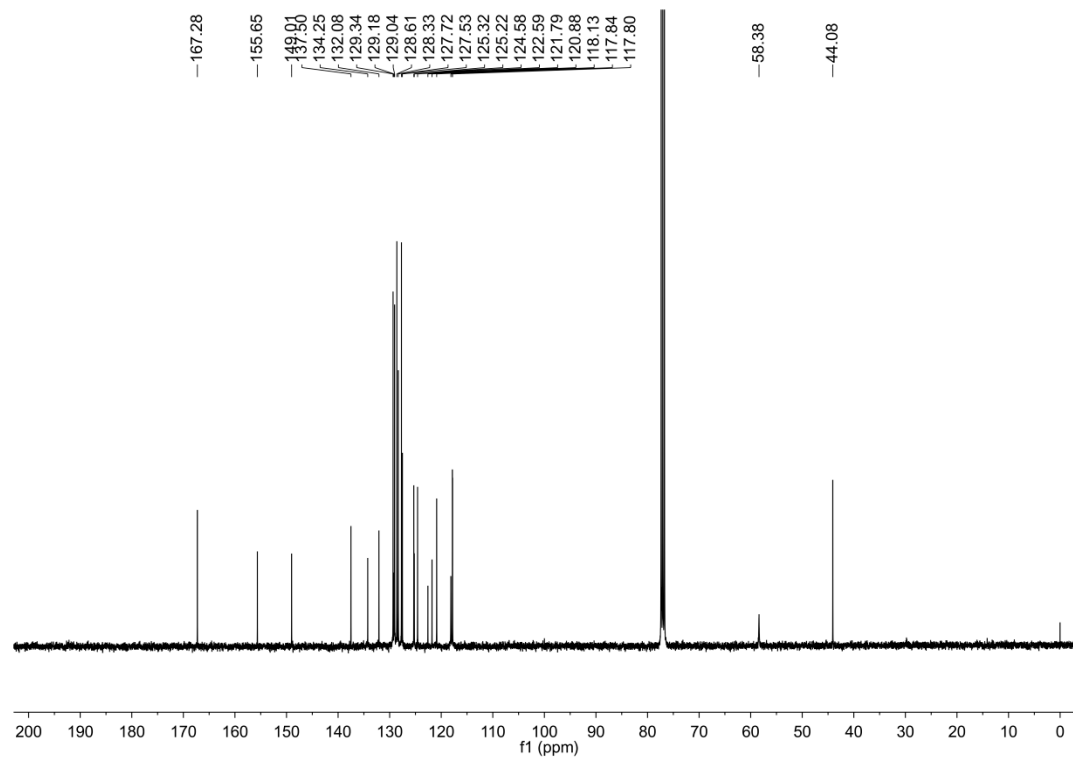
<sup>13</sup>C NMR spectrum of **6i** (101 MHz, CDCl<sub>3</sub>)



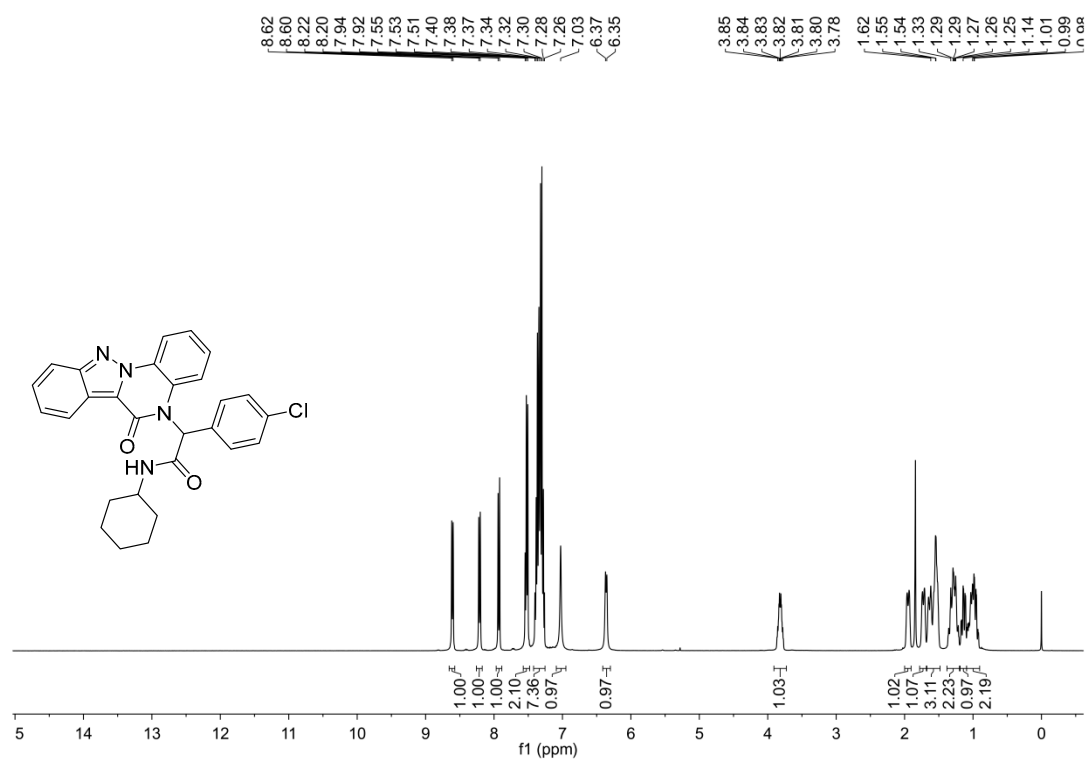
$^1\text{H}$  NMR spectrum of **6j** (400 MHz,  $\text{CDCl}_3$ )



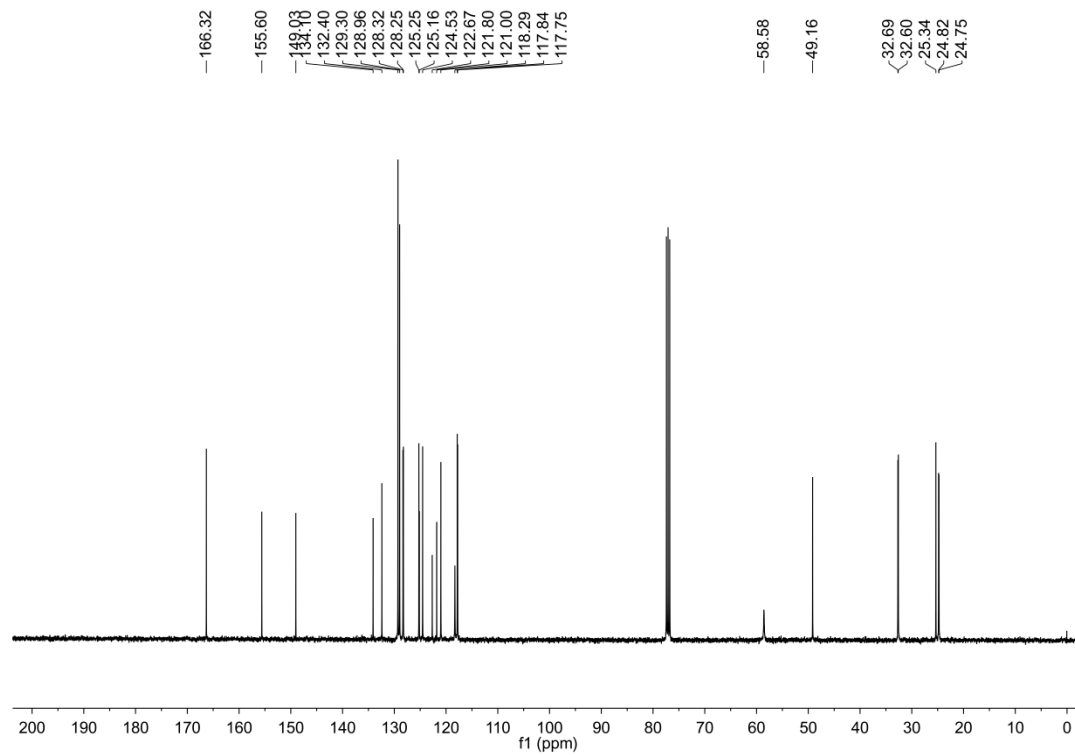
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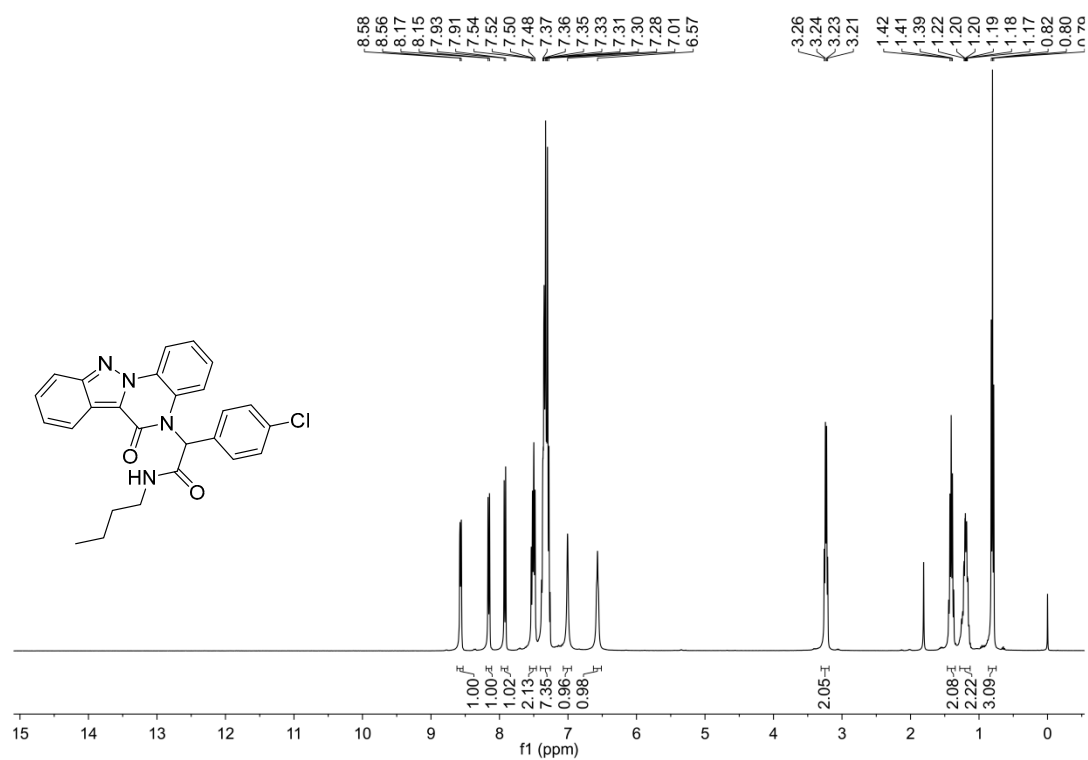
<sup>1</sup>H NMR spectrum of **6k** (400 MHz, CDCl<sub>3</sub>)



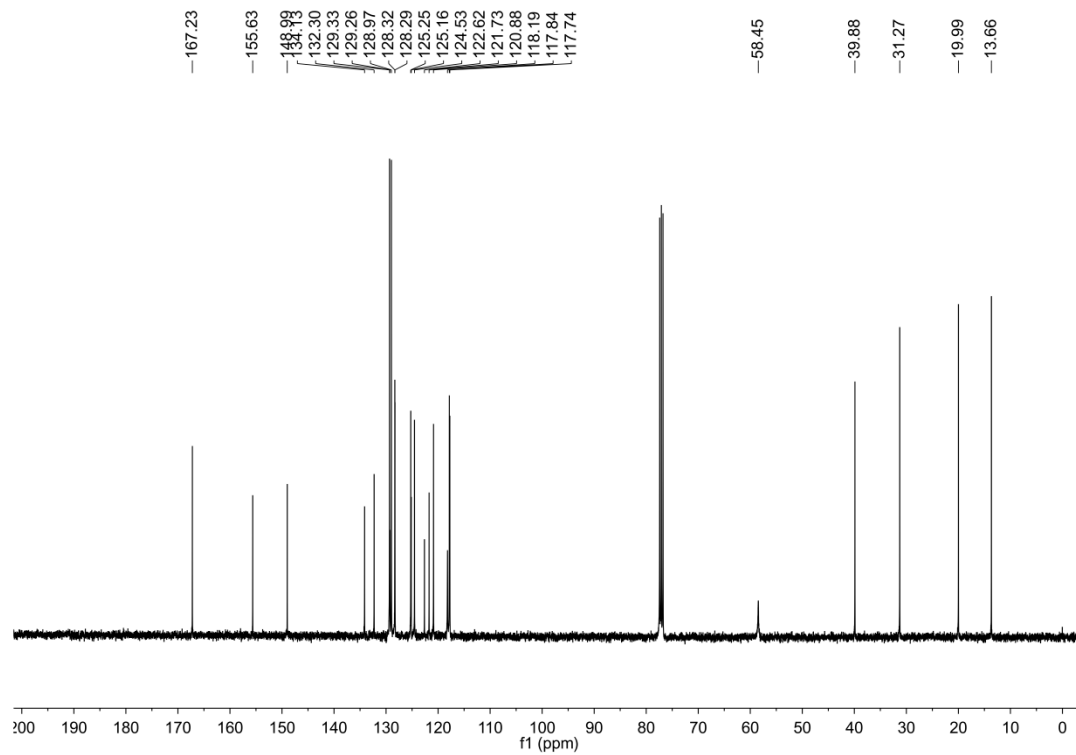
<sup>13</sup>C NMR spectrum of **6k** (101 MHz, CDCl<sub>3</sub>)



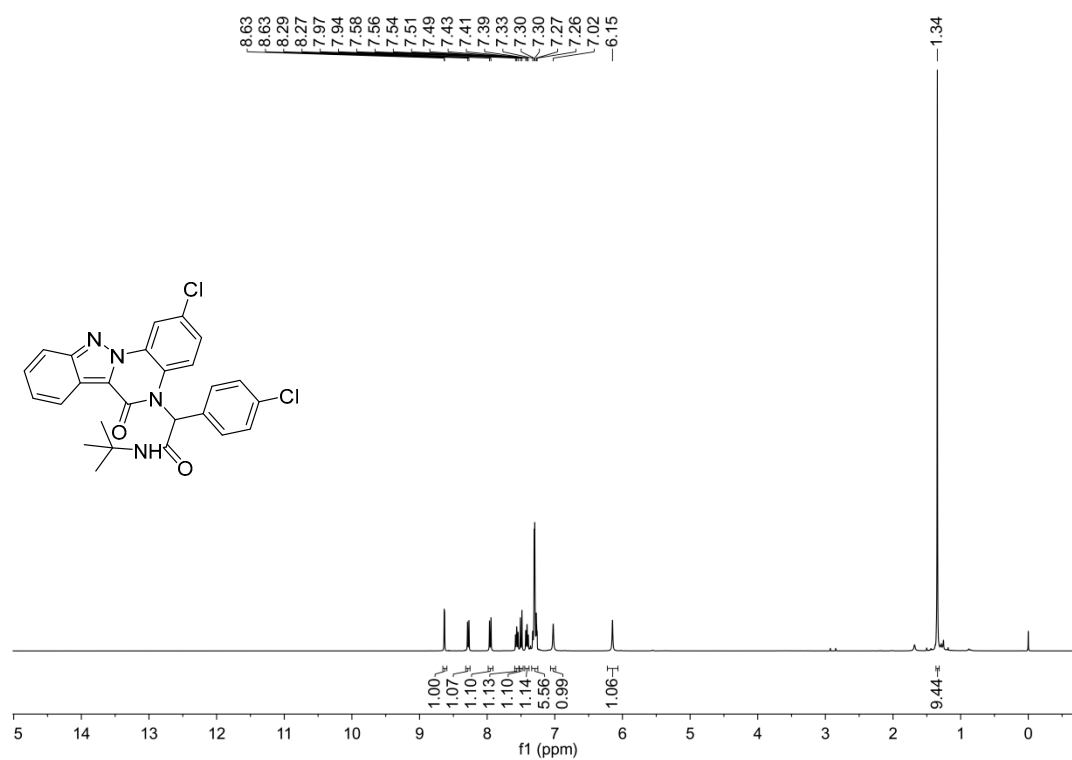
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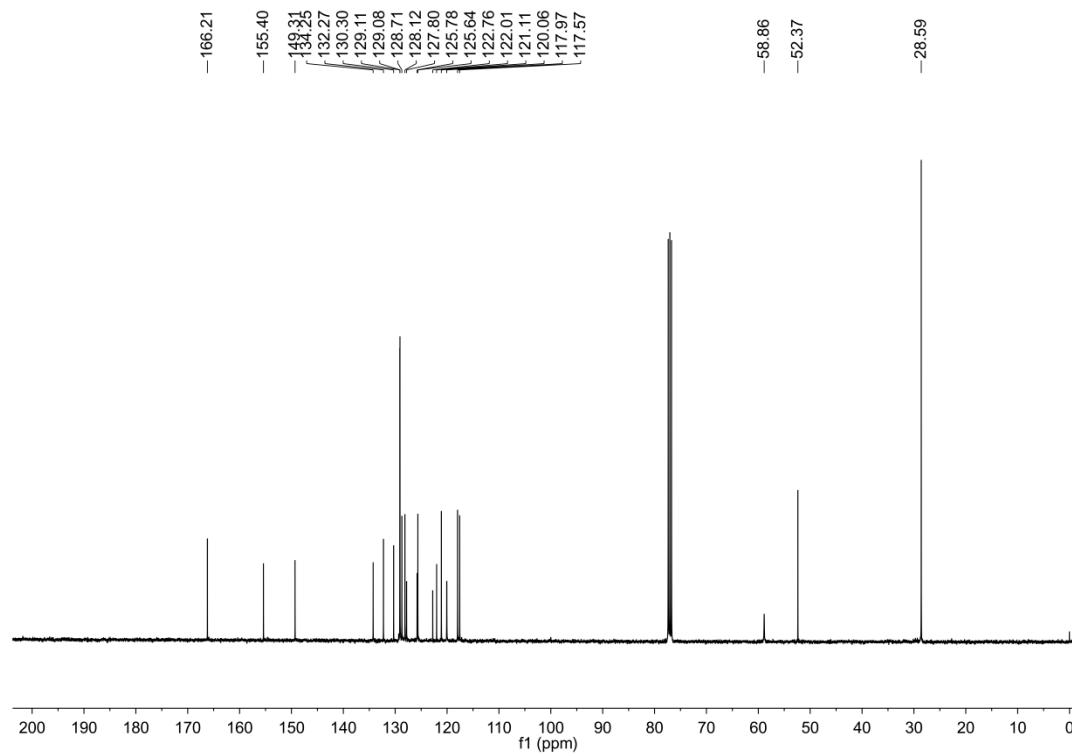
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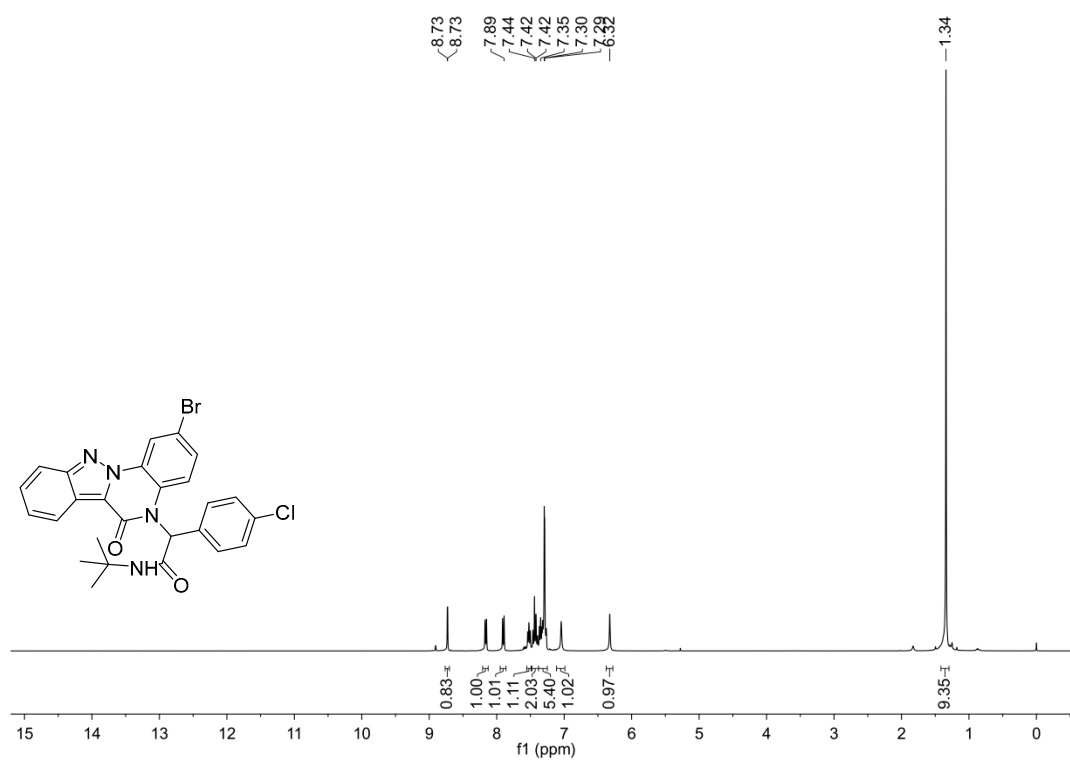
<sup>1</sup>H NMR spectrum of **6m** (400 MHz, CDCl<sub>3</sub>)



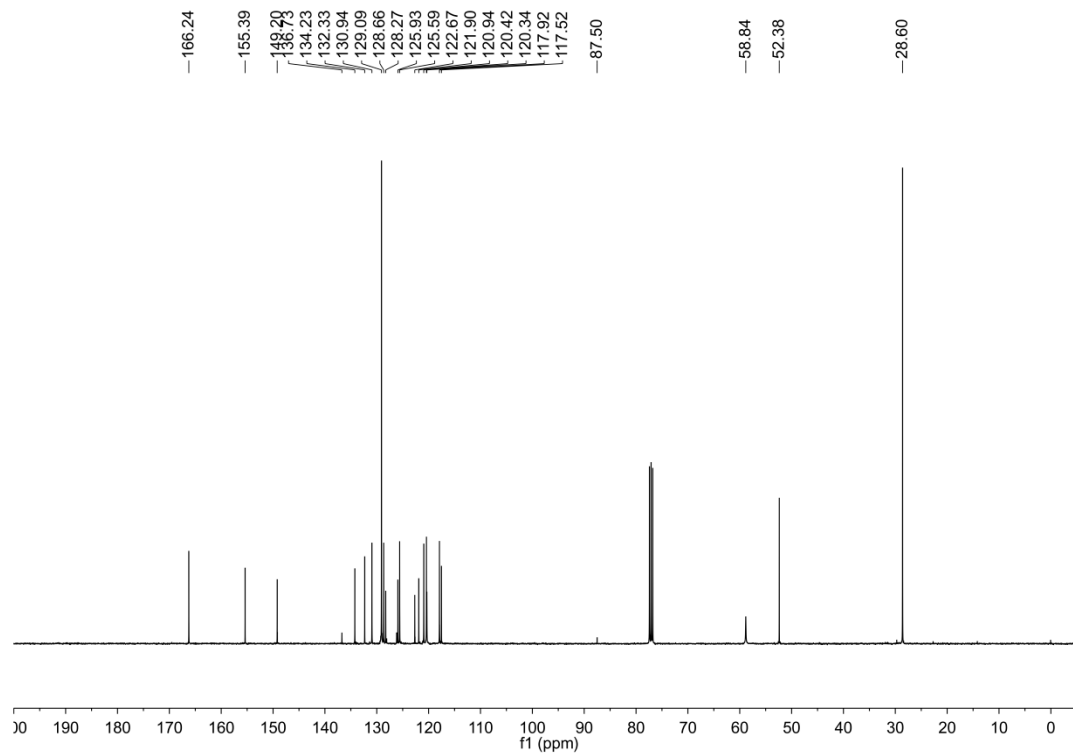
<sup>13</sup>C NMR spectrum of **6m** (101 MHz, CDCl<sub>3</sub>)



$^1\text{H}$  NMR spectrum of **6n** (400 MHz,  $\text{CDCl}_3$ )

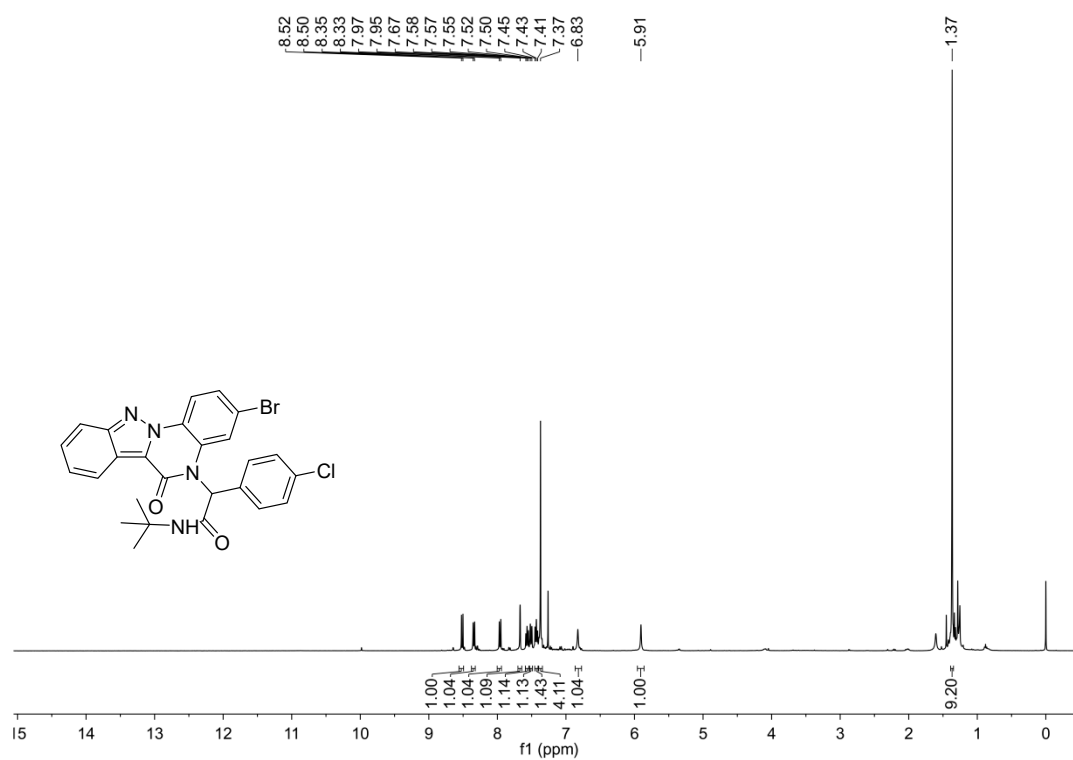


$^{13}\text{C}$  NMR spectrum of **6n** (101 MHz,  $\text{CDCl}_3$ )

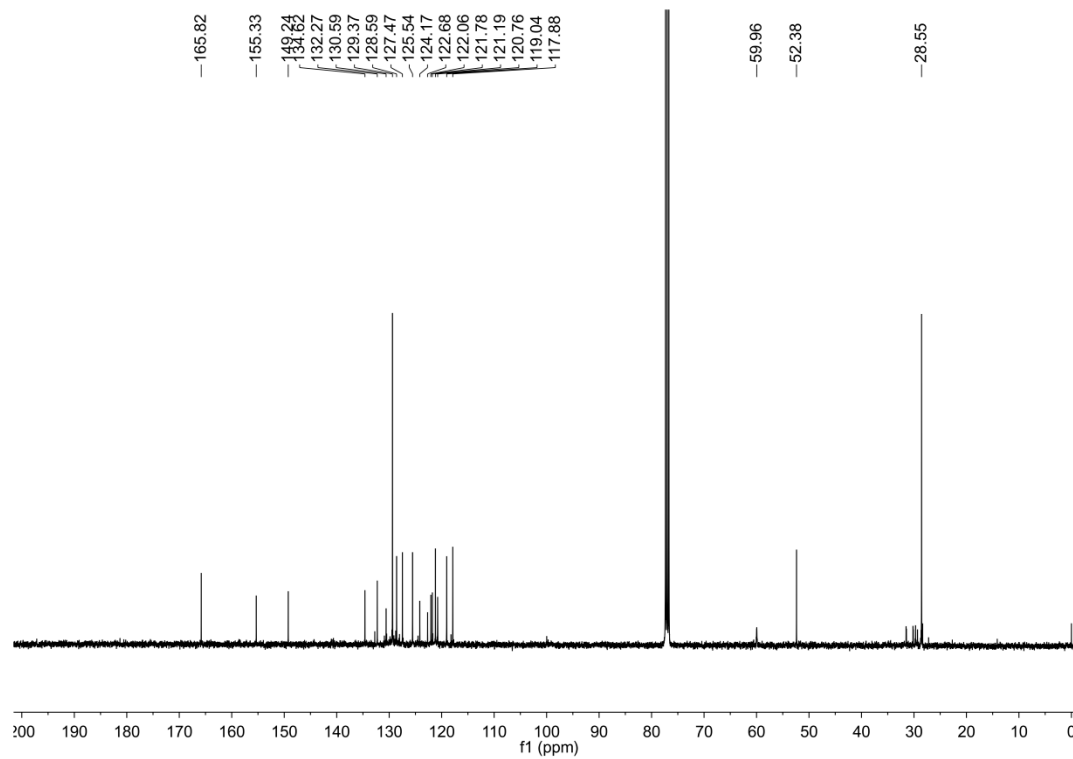




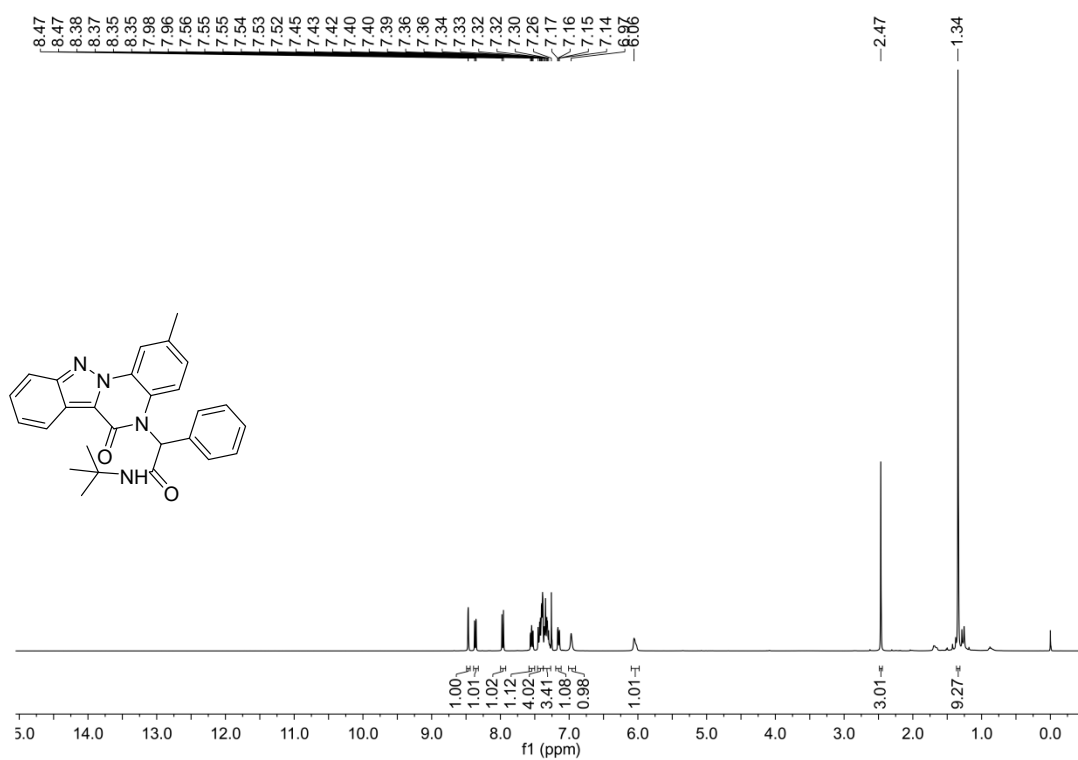
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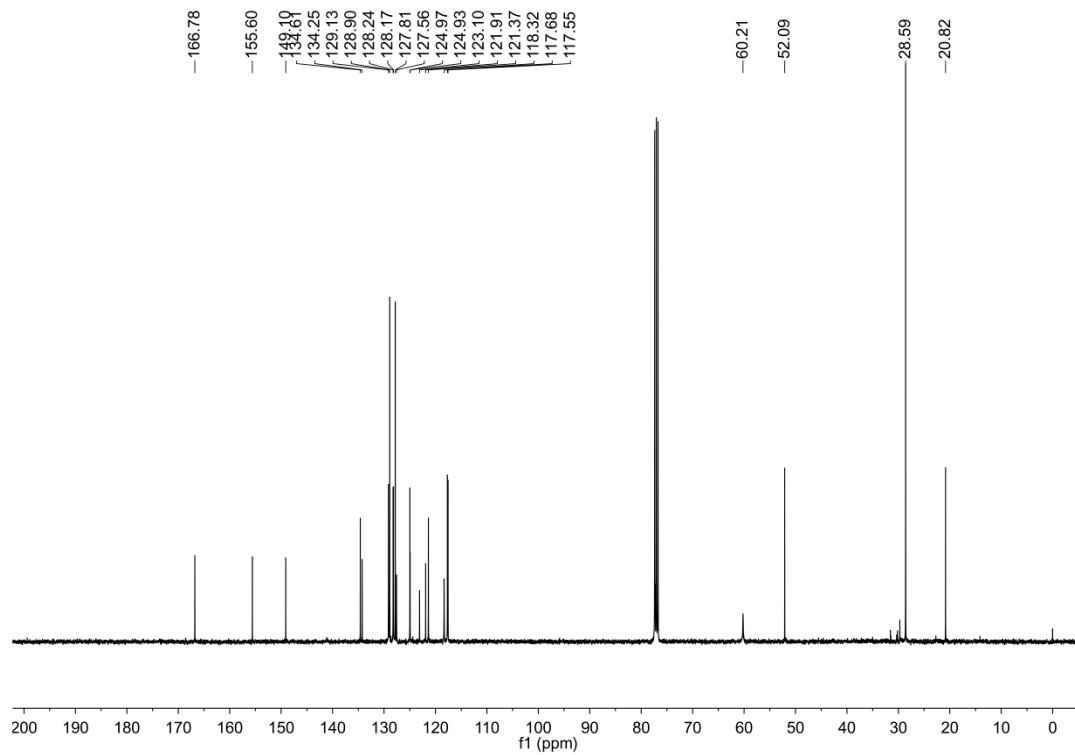
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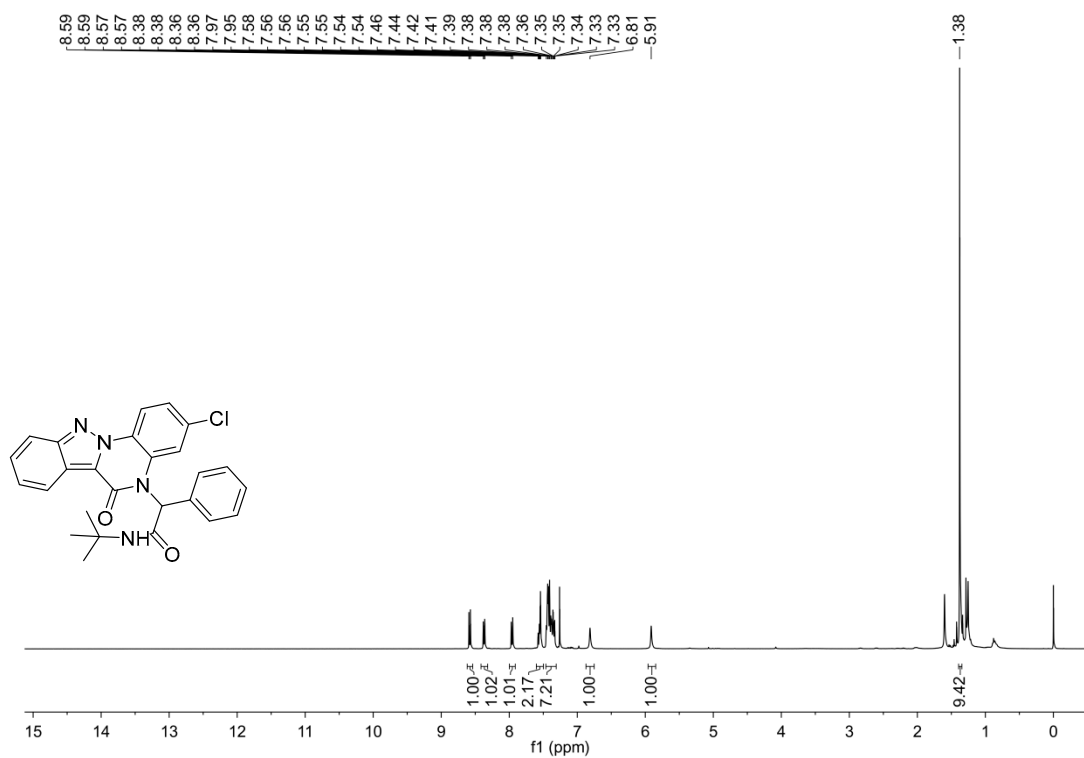
$^1\text{H}$  NMR spectrum of **6p** (400 MHz,  $\text{CDCl}_3$ )



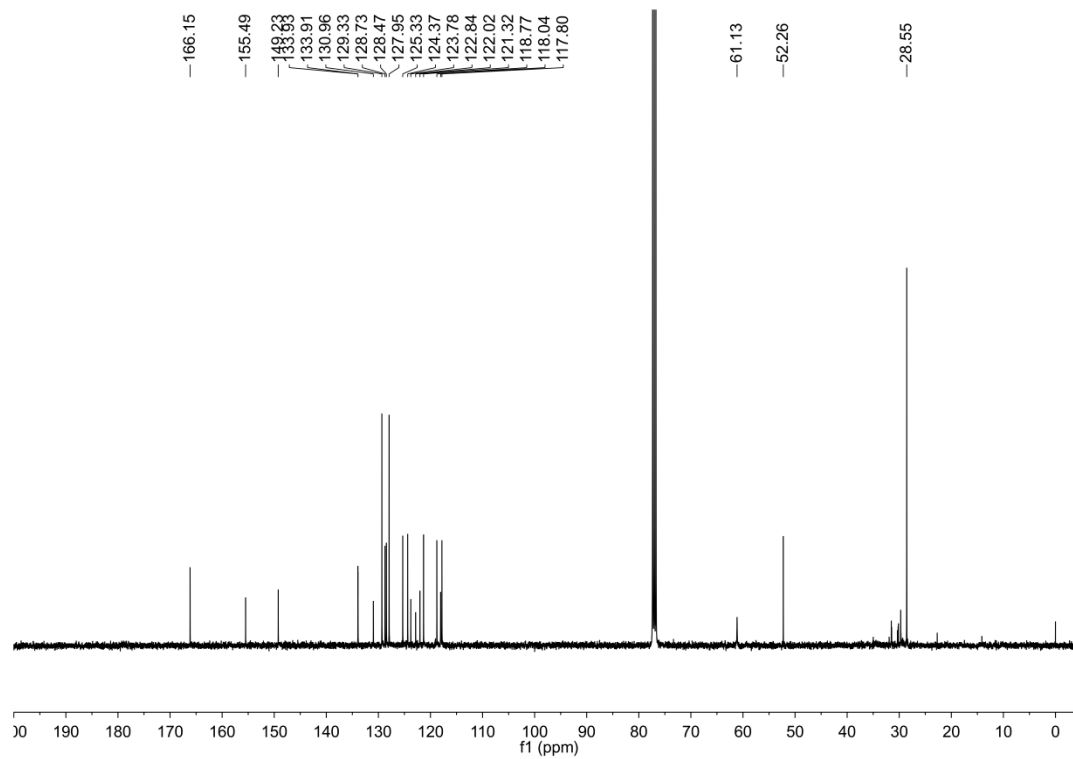
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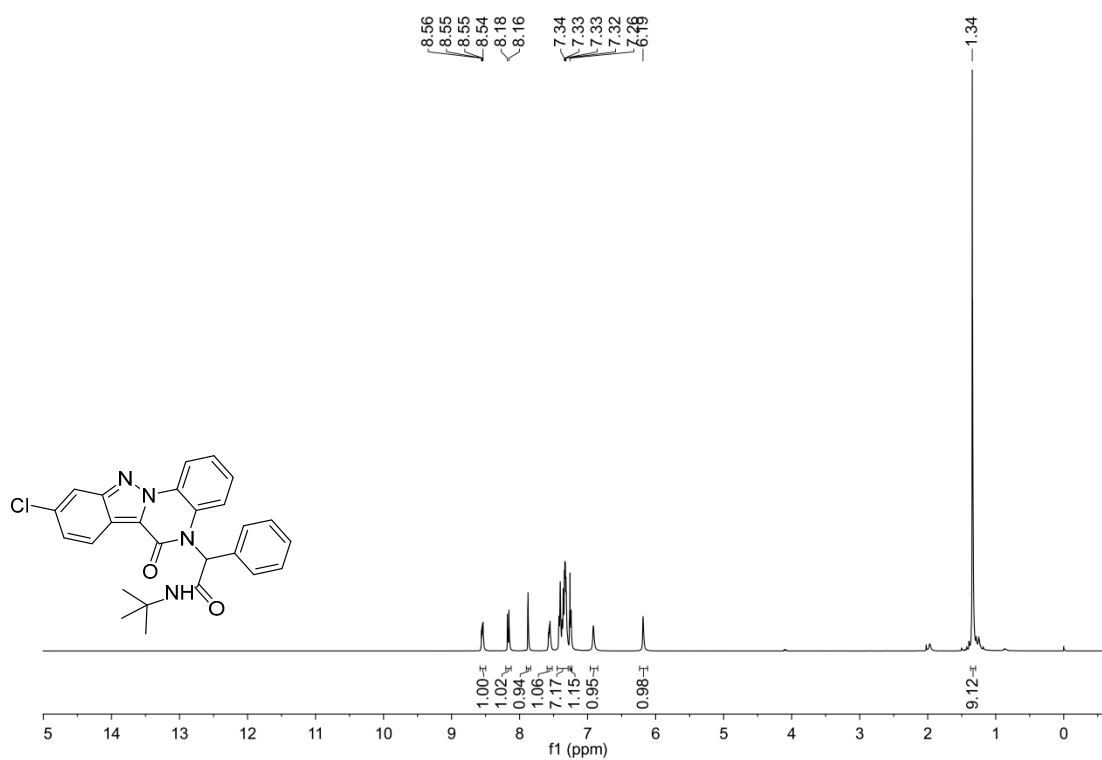
<sup>1</sup>H NMR spectrum of **6q** (400 MHz, CDCl<sub>3</sub>)



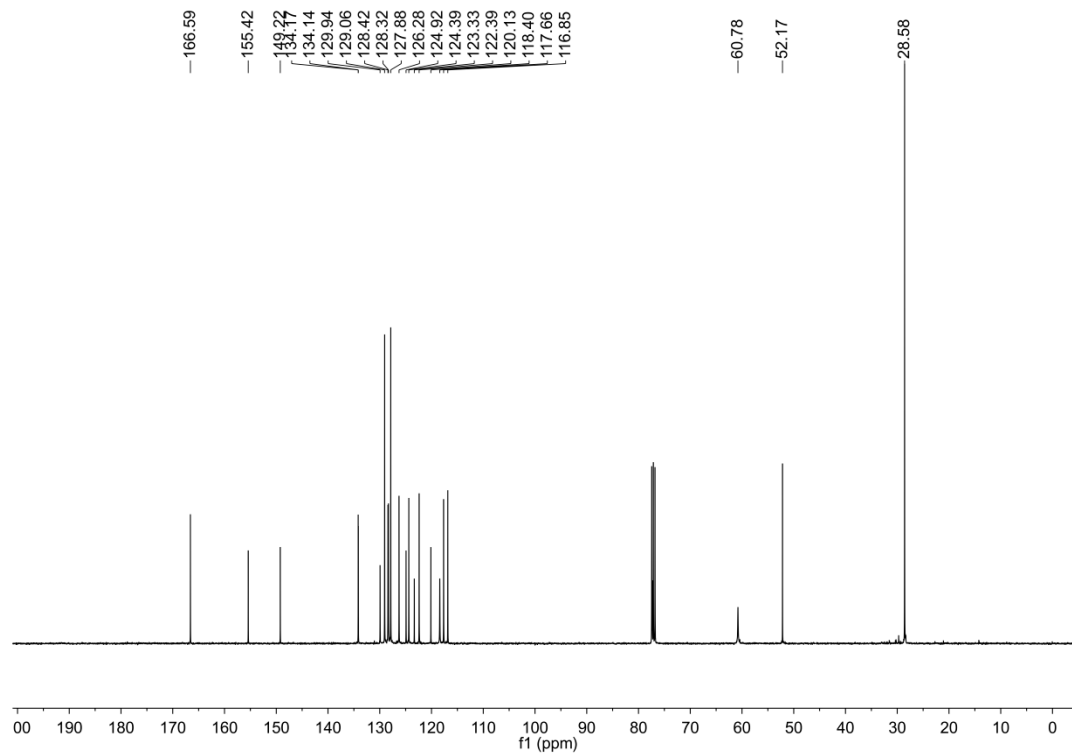
<sup>13</sup>C NMR spectrum of **6q** (101 MHz, CDCl<sub>3</sub>)



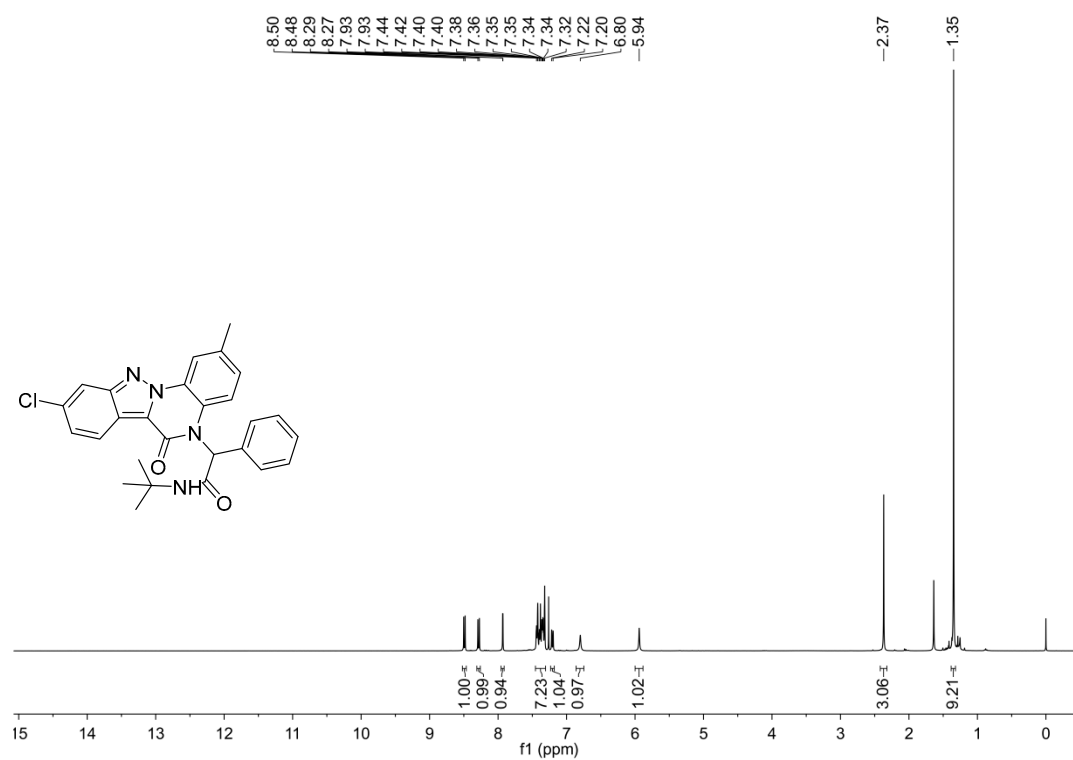
$^1\text{H}$  NMR spectrum of **6r** (400 MHz,  $\text{CDCl}_3$ )



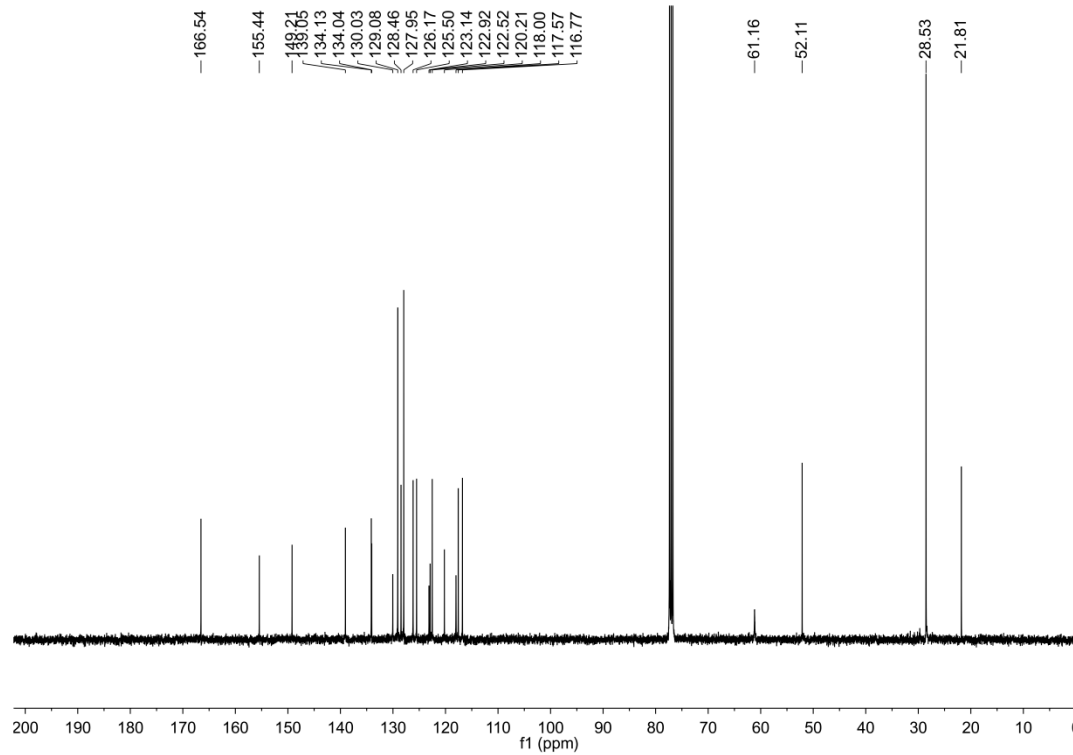
$^{13}\text{C}$  NMR spectrum of **6r** (101 MHz,  $\text{CDCl}_3$ )



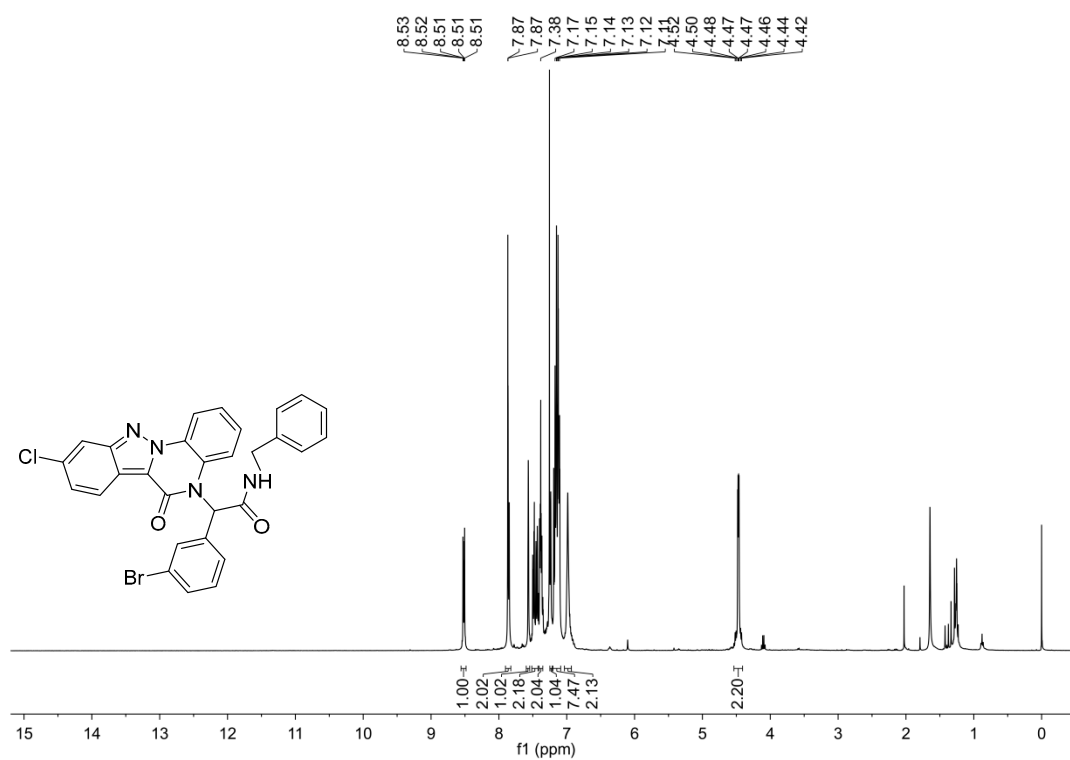
$^1\text{H}$  NMR spectrum of **6s** (400 MHz,  $\text{CDCl}_3$ )



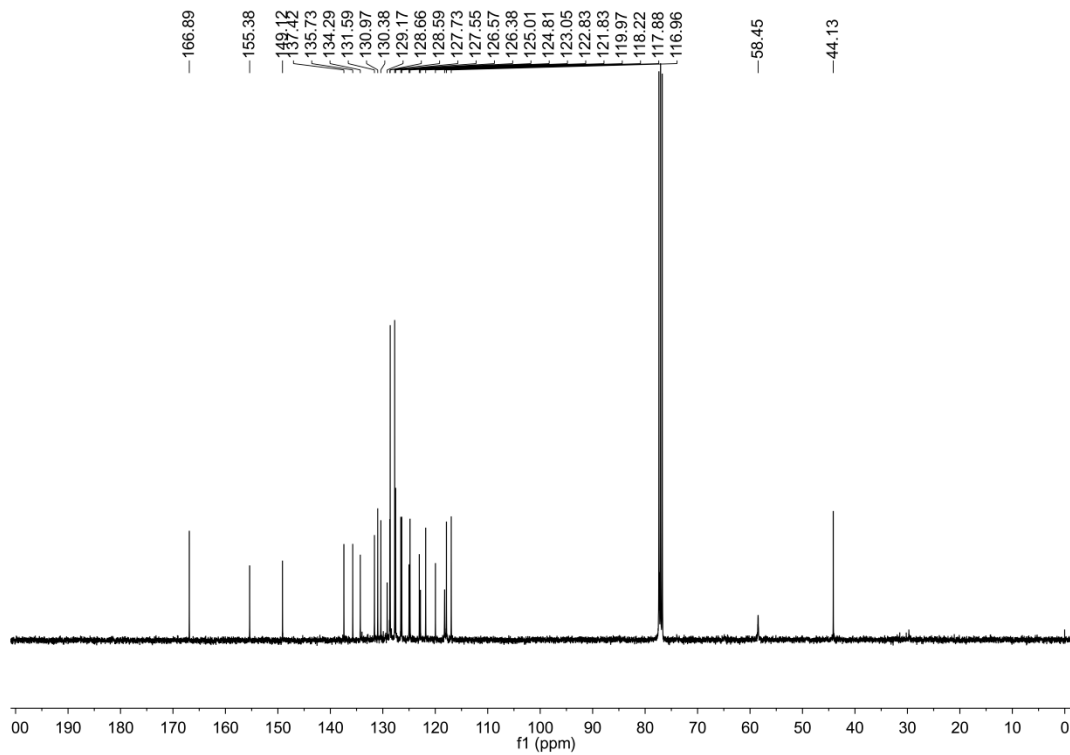
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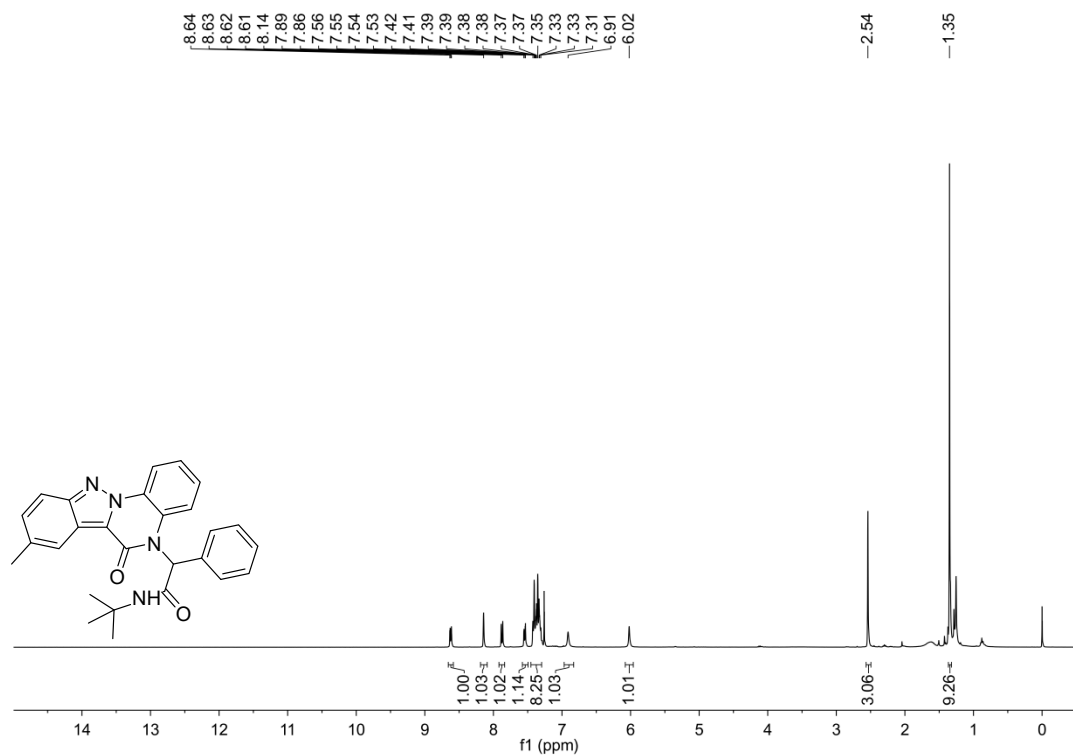
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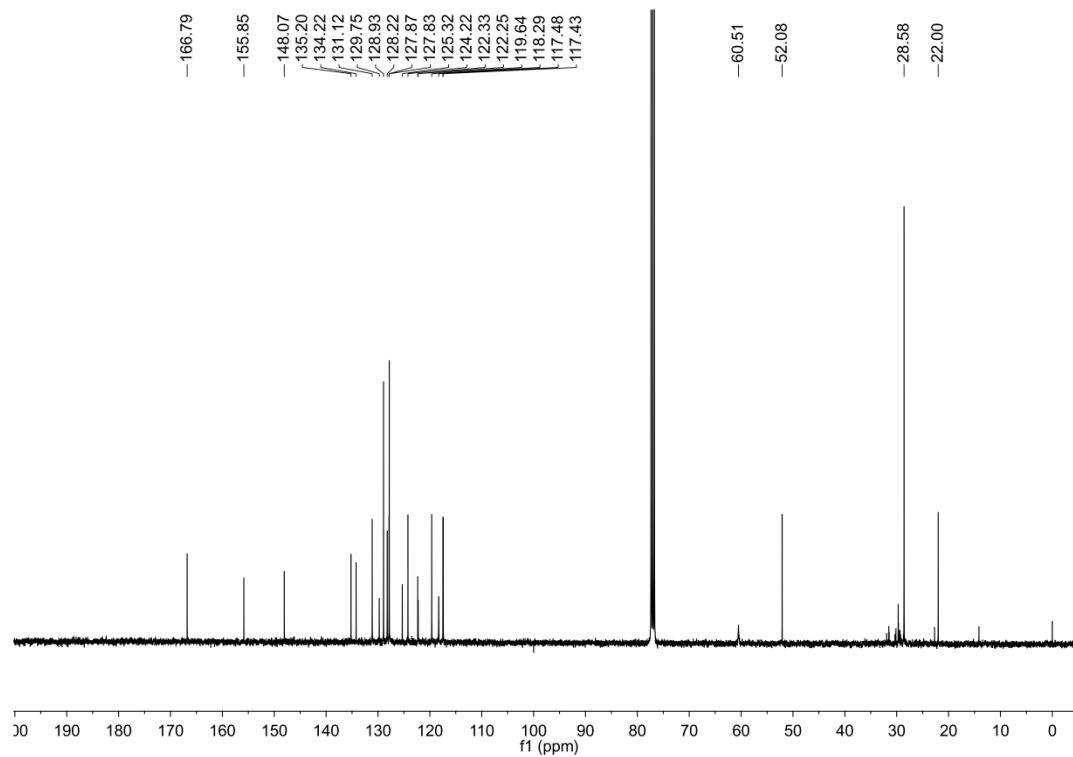
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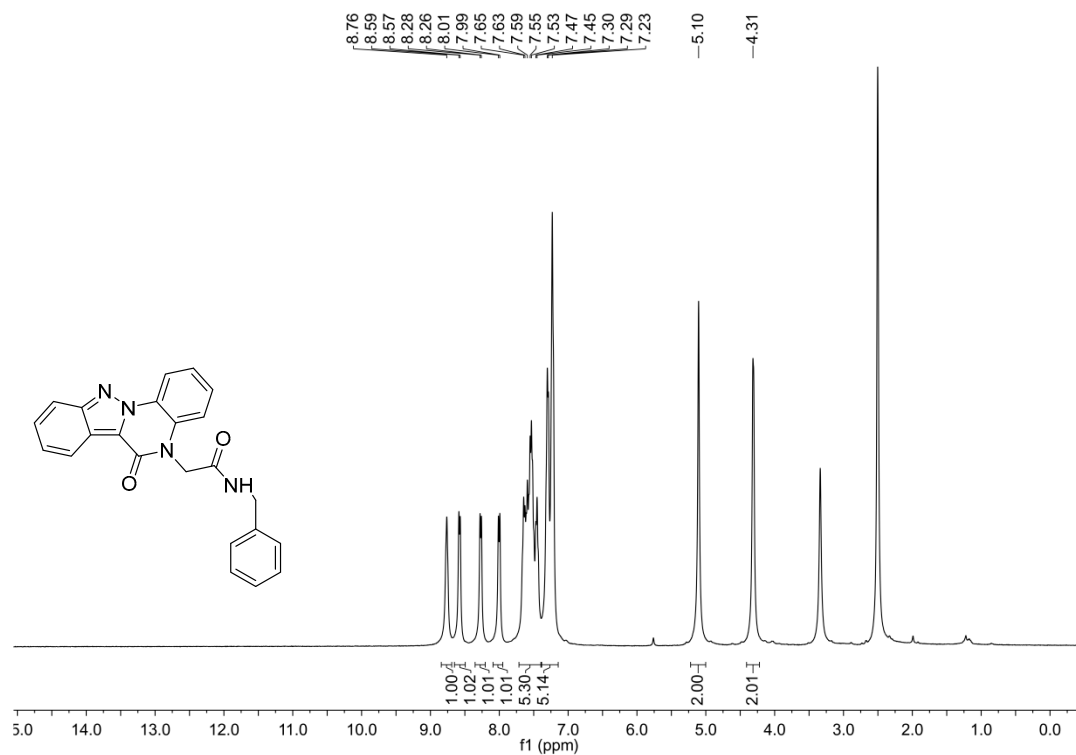
<sup>1</sup>H NMR spectrum of **6u** (400 MHz, CDCl<sub>3</sub>)



<sup>13</sup>C NMR spectrum of **6u** (101 MHz, CDCl<sub>3</sub>)



<sup>1</sup>H NMR spectrum of **6v** (400 MHz, DMSO-*d*<sub>6</sub>)



<sup>13</sup>C NMR spectrum of **6v** (101 MHz, DMSO-*d*<sub>6</sub>)

