

## Supporting Information

### I<sub>2</sub>-catalyzed cross dehydrogenative coupling: Rapid Access to benzoxazinones and quinazolinones

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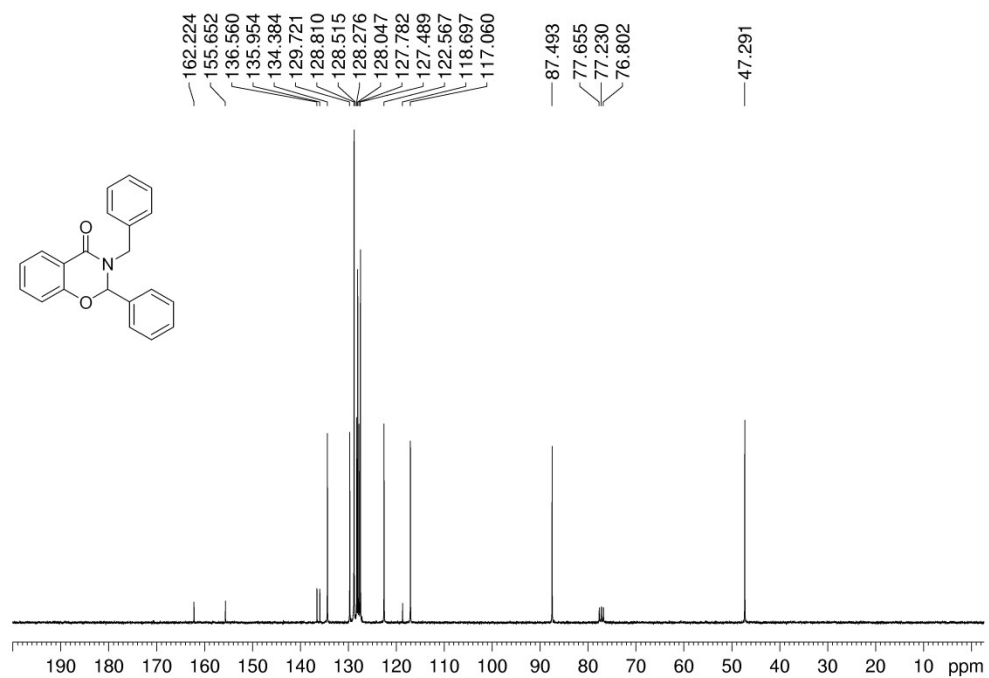
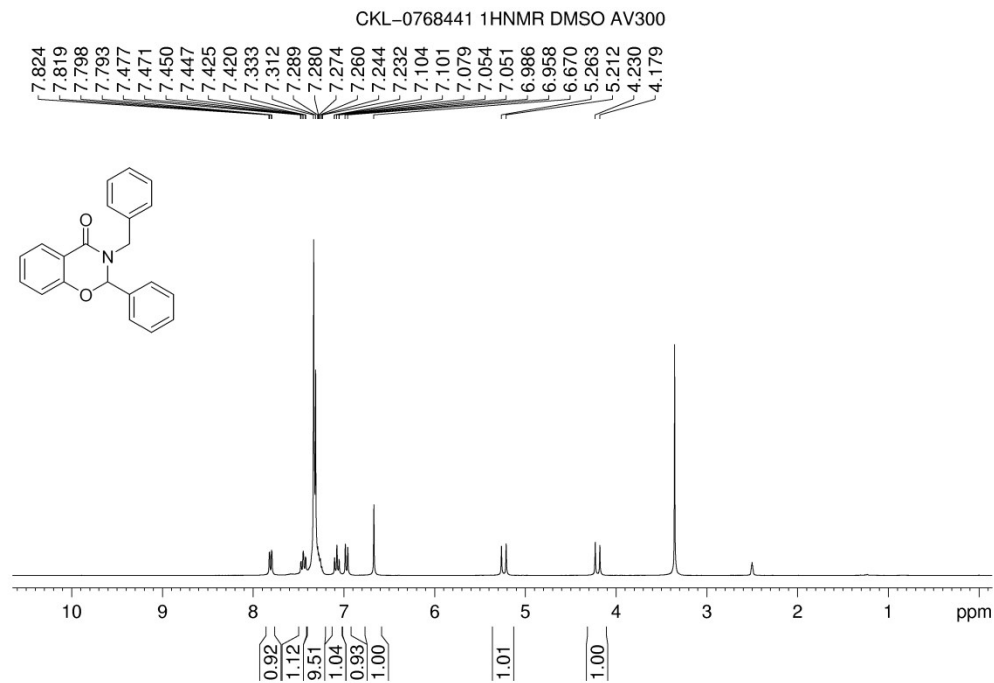
## Preparation of Substrates

All substrates were prepared according to the following literatures. And the  $^1\text{H}$  NMR spectrum data for them showed good agreement with the literature data.

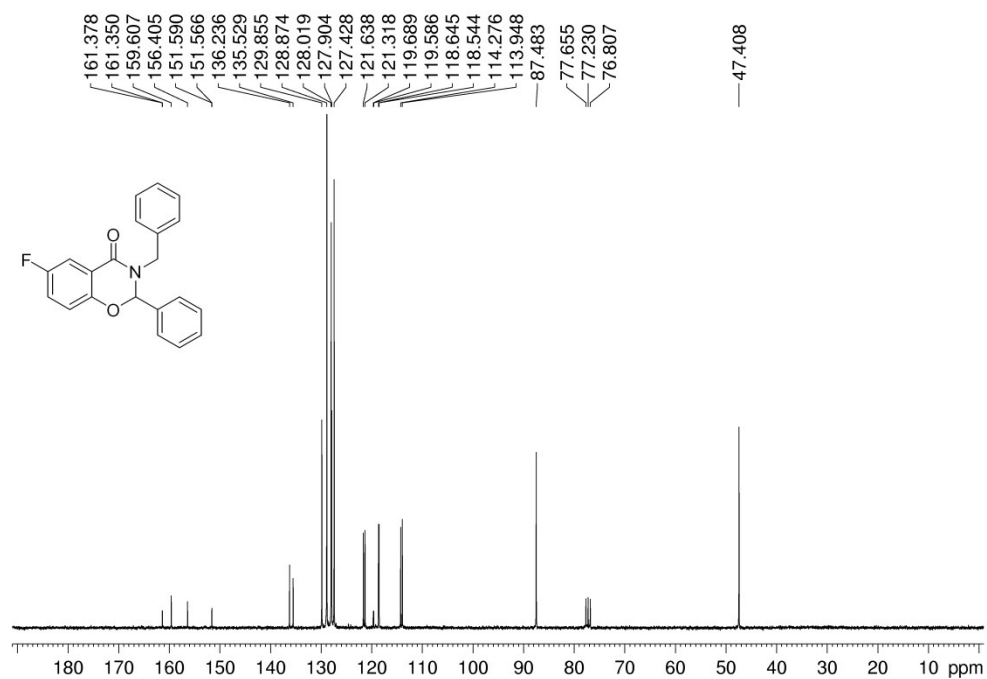
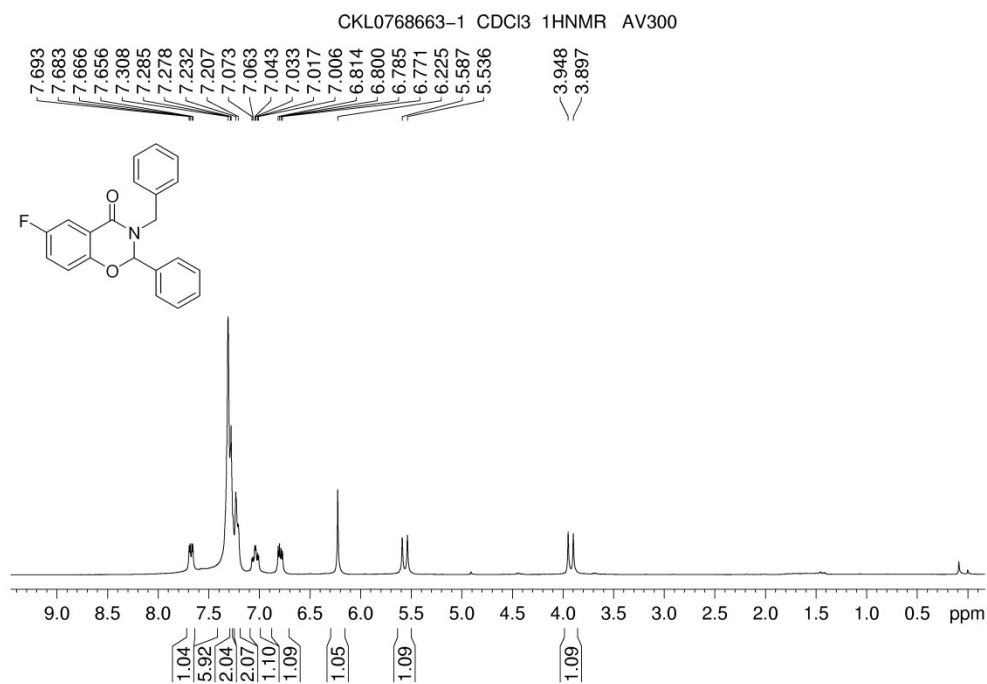
- (1) Eicher Theophil, Tiefensee Kristin, Pick Rigobert, *Synthesis*. 1988, **7**, 525-9.
- (2) Shokrolahi Arash, Zali Abbas, Keshavarz Mohammad Hossein, *Green Chemistry Letters and Reviews*. 2011, **4**, 195-203.
- (3) Hu Yu-Lin, Wang Peng-Cheng, Chen Tian, Lu Ming, *Journal of the Chinese Chemical Society*. 2010, **57**, 604-611.

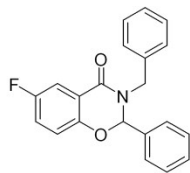
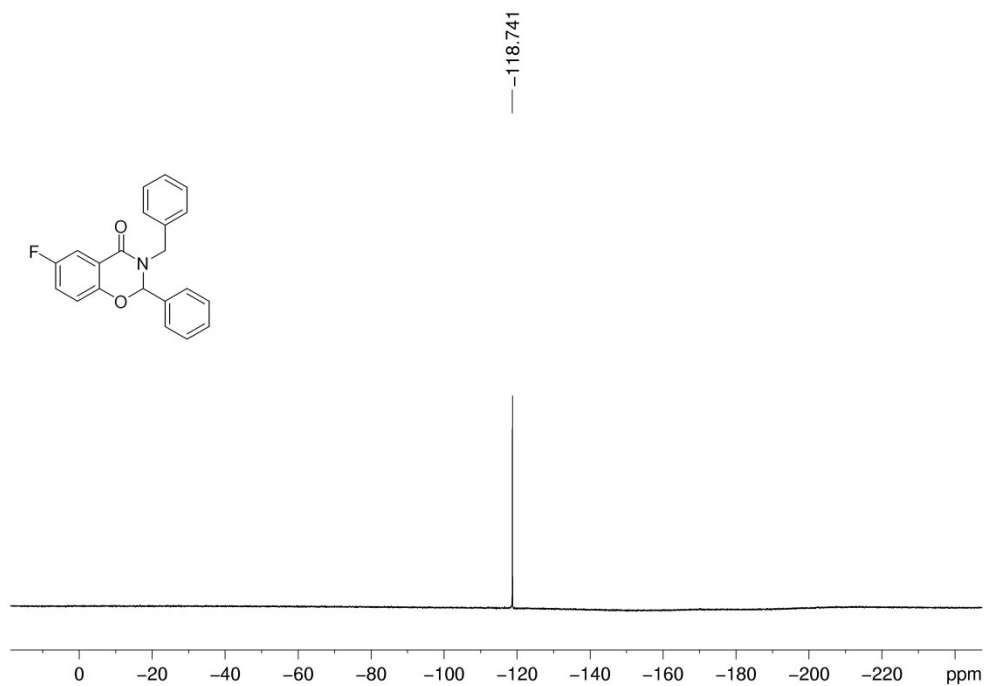
## Copies of $^1\text{H}$ and $^{13}\text{C}$ NMR Spectra

$^1\text{H}$  NMR (300 MHz, DMSO),  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of compound **2a**

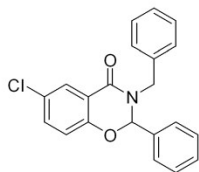
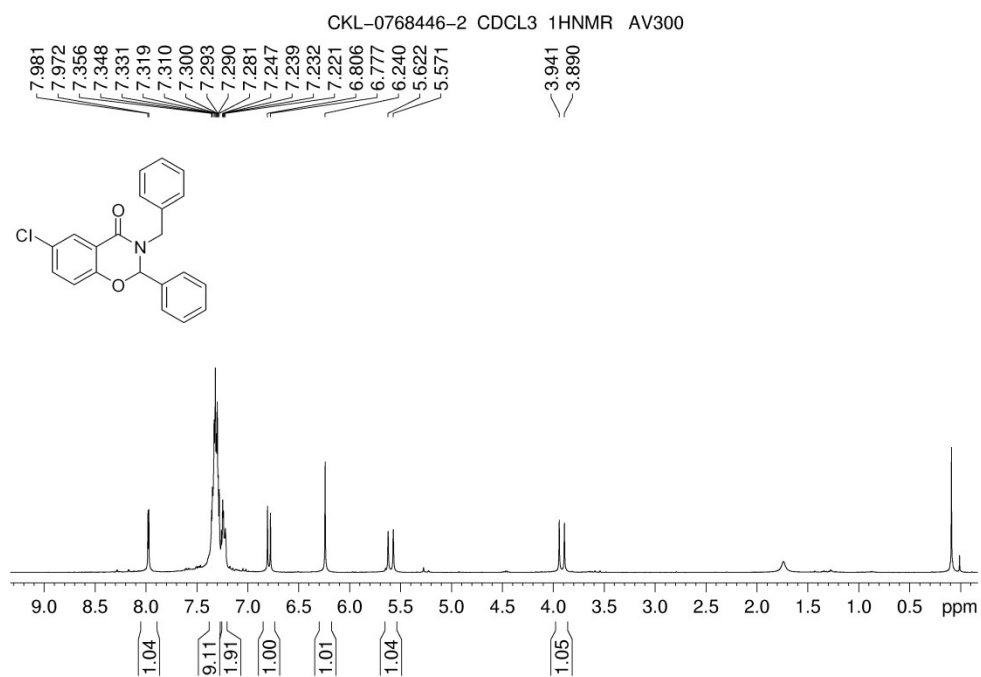


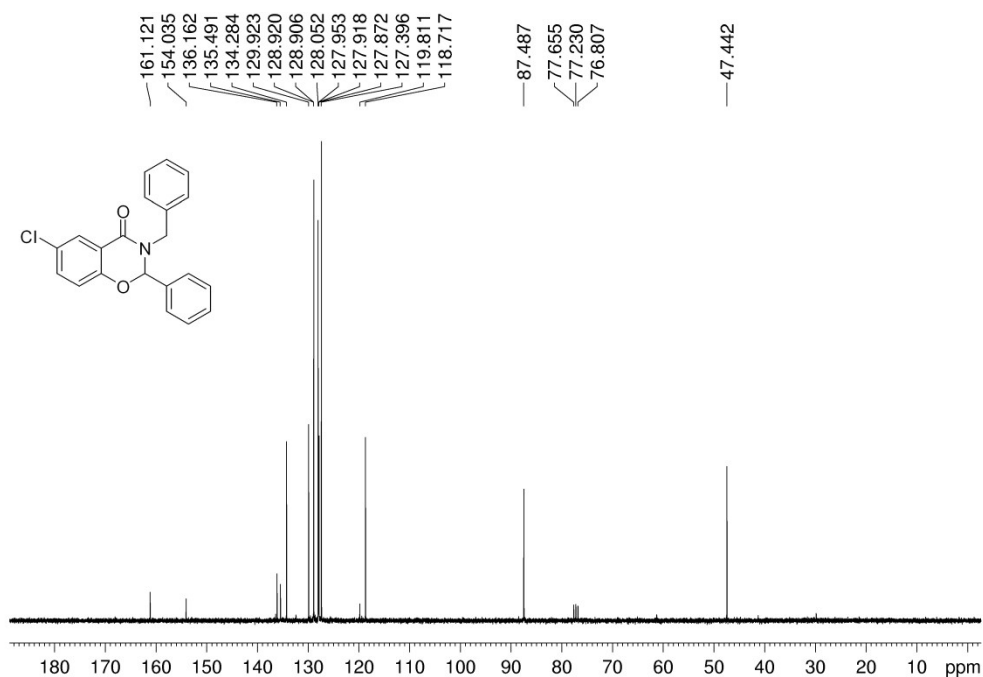
$^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ),  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ),  $^{19}\text{F}$  NMR (282 MHz,  $\text{CDCl}_3$ ) of compound **2b**



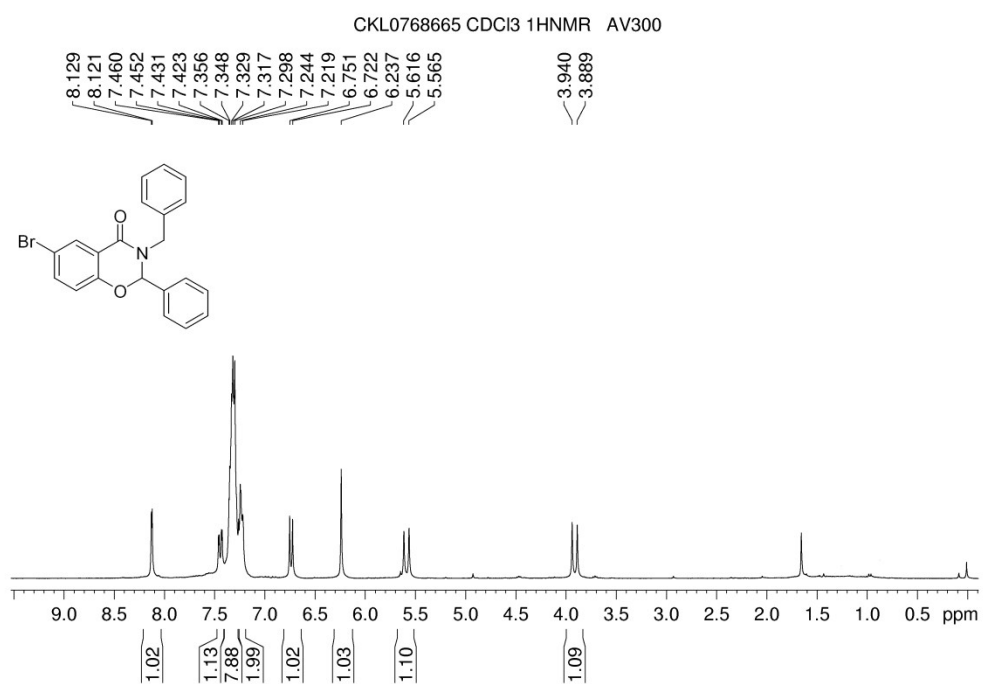


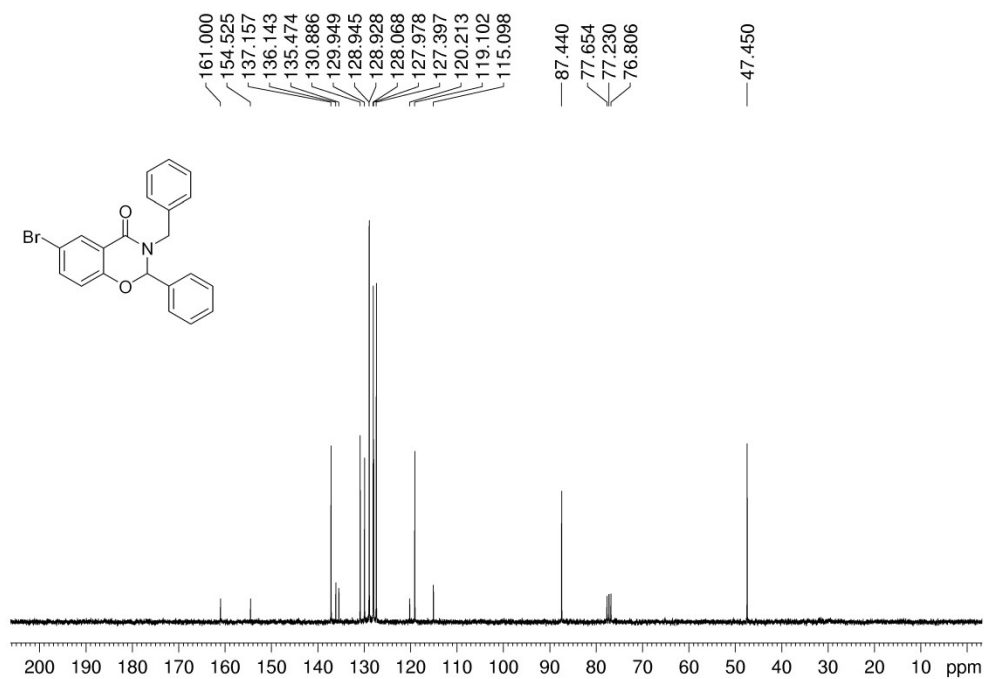
$^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ),  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of compound **2c**



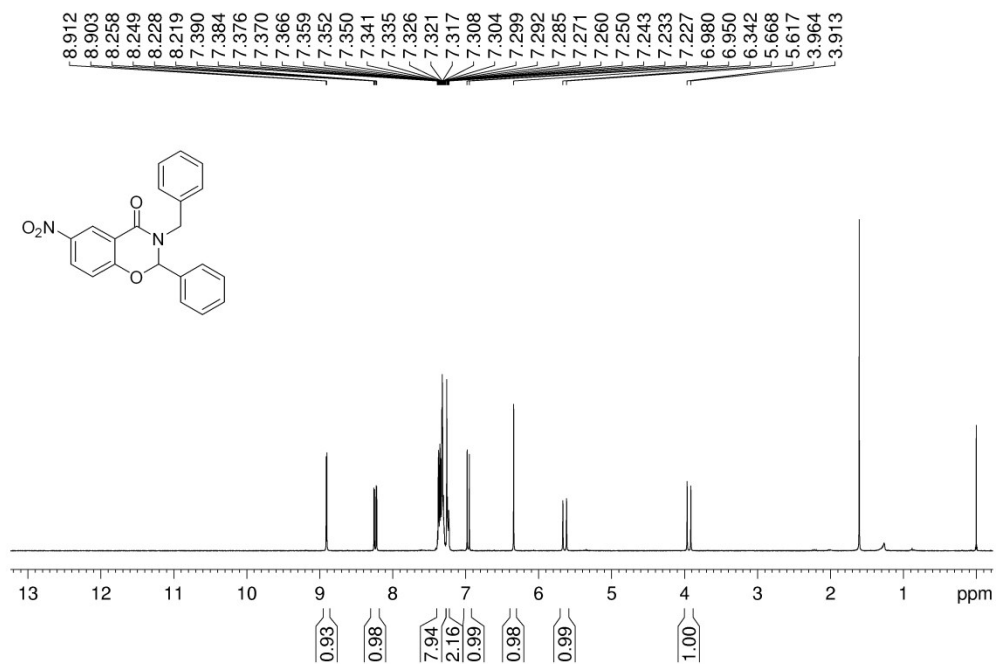


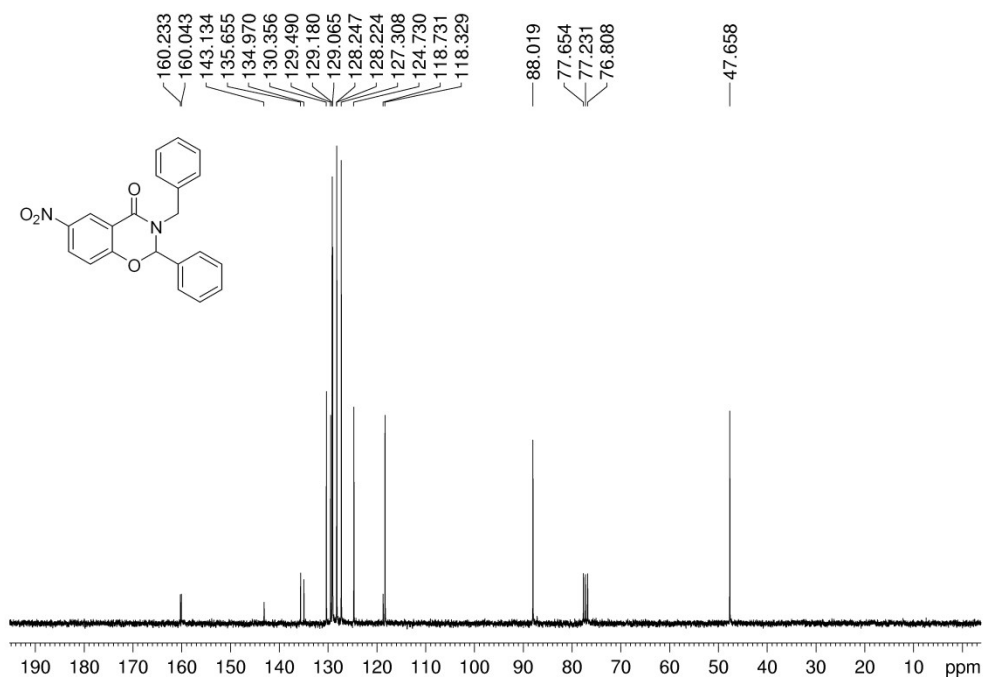
<sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>), <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **2d**



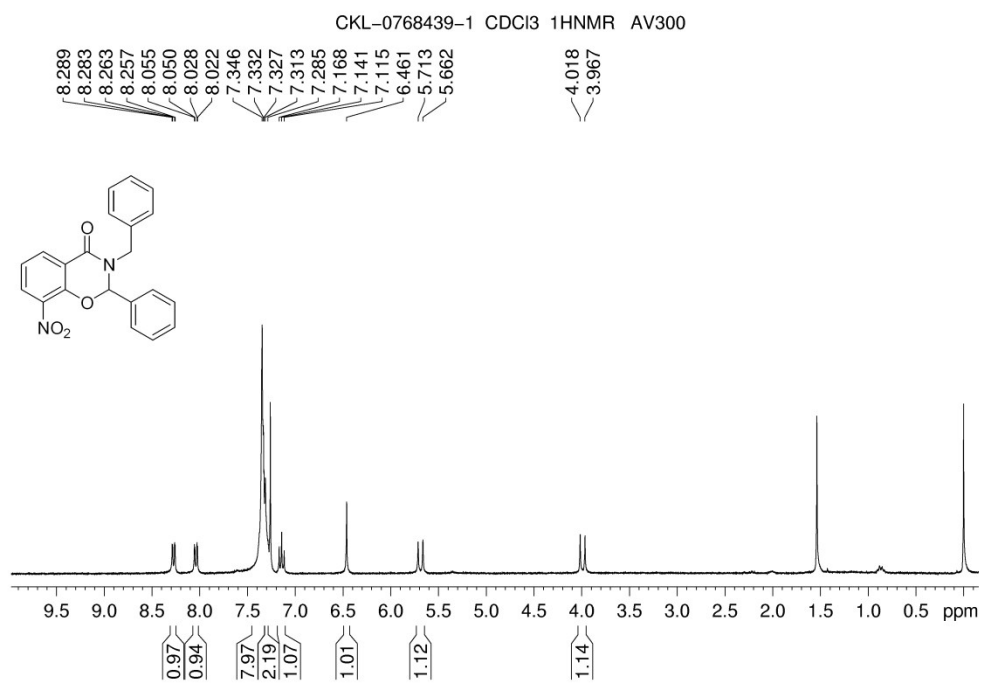


$^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ),  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of compound **2e**

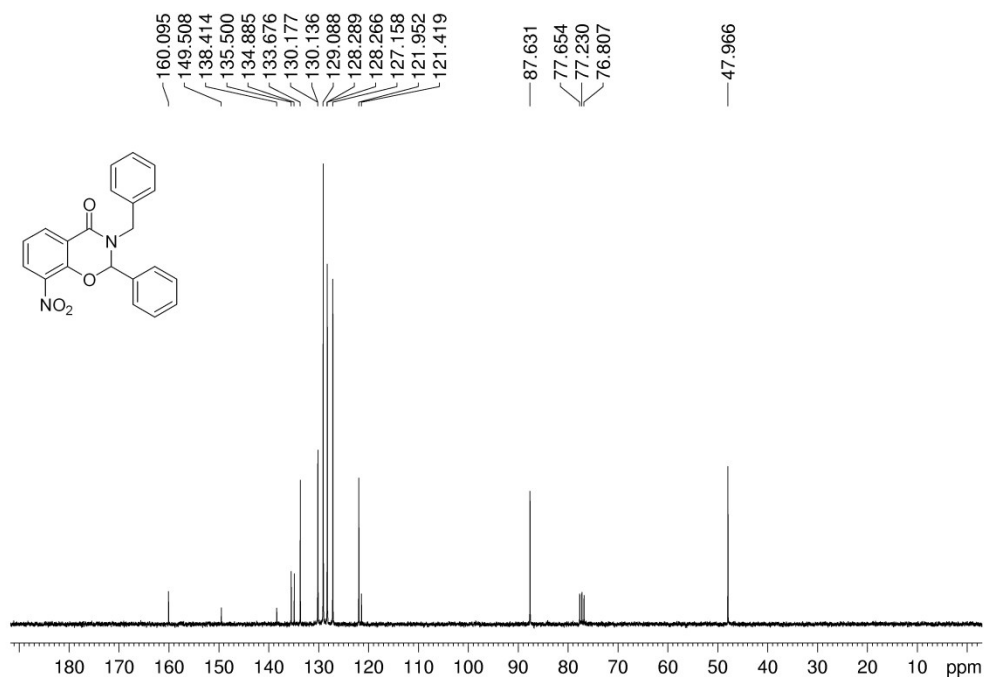




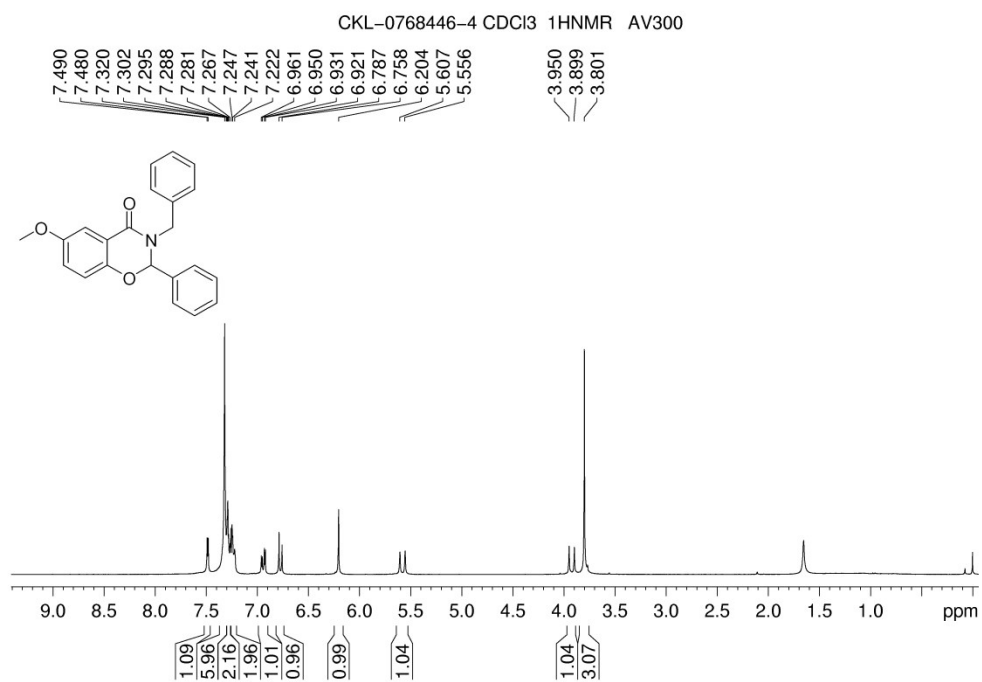
<sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>), <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **2f**

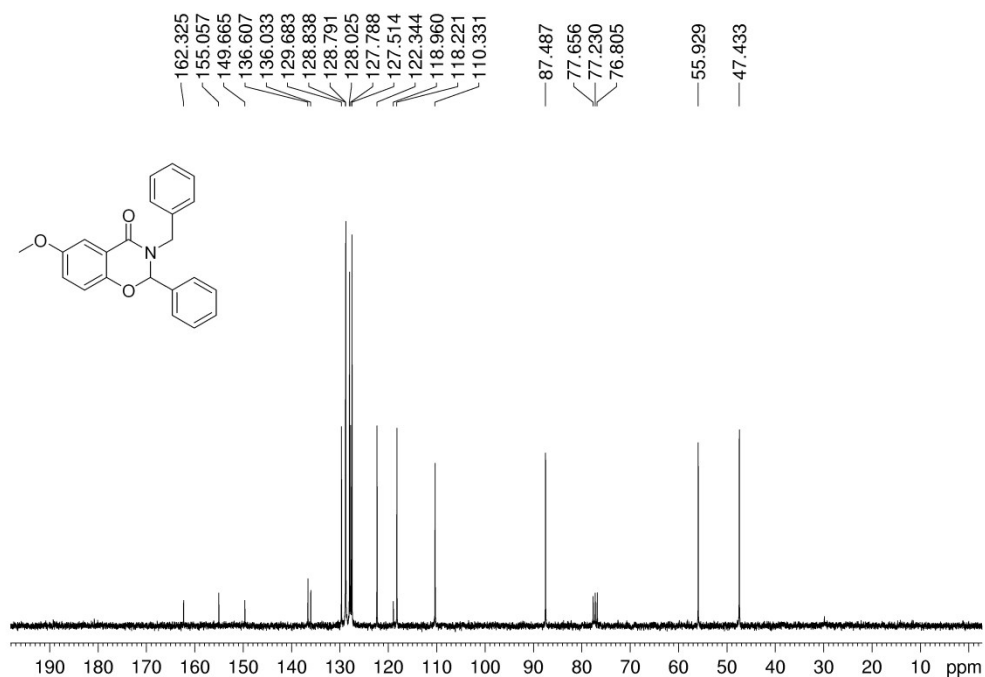




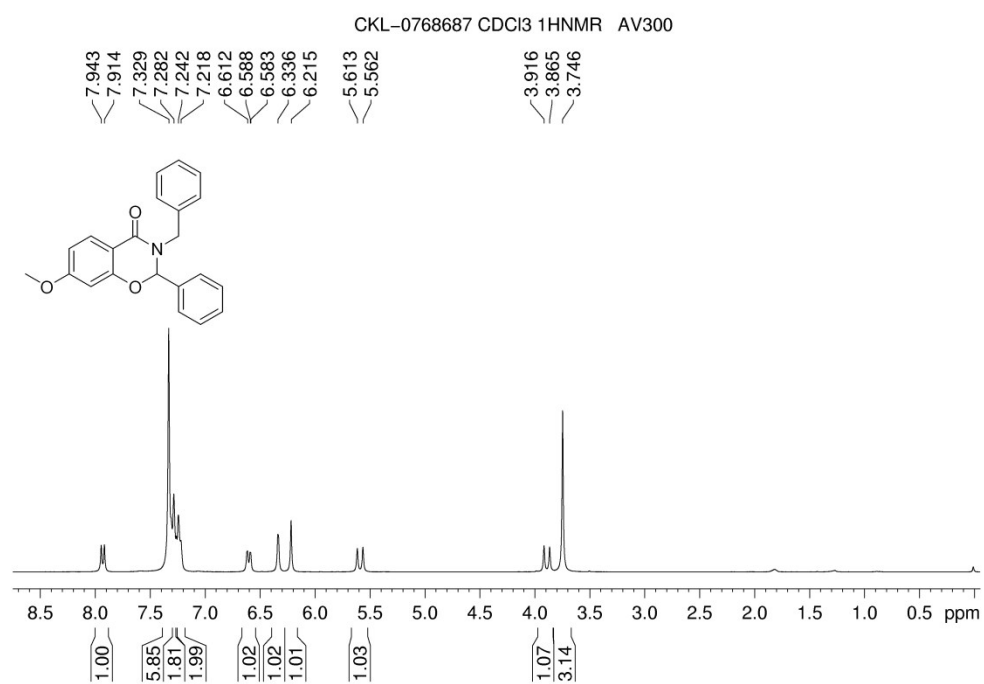


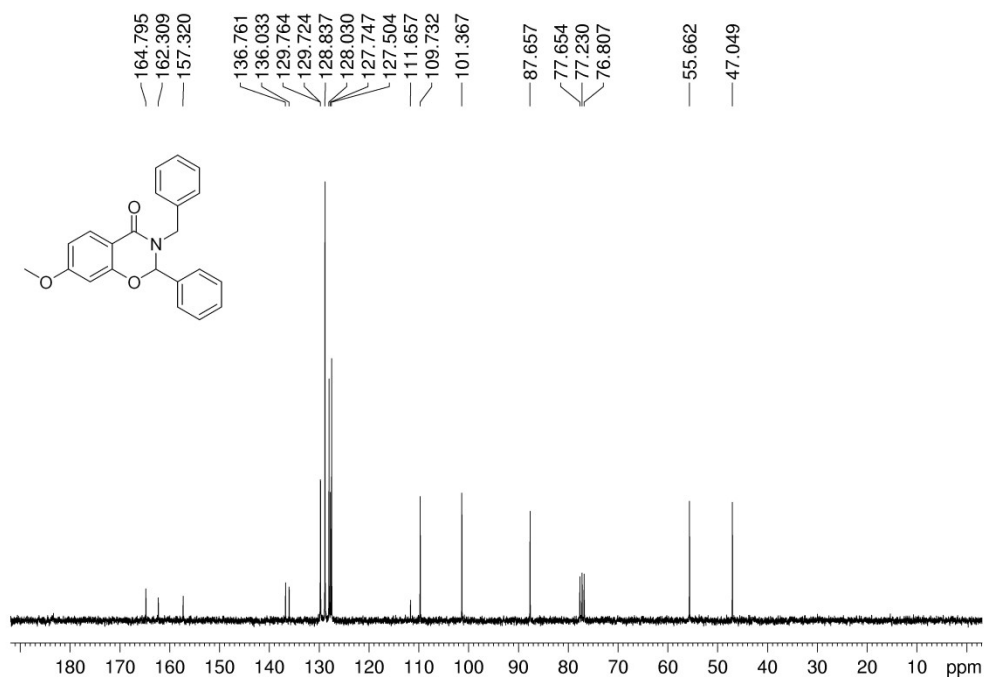
$^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ),  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of compound **2g**



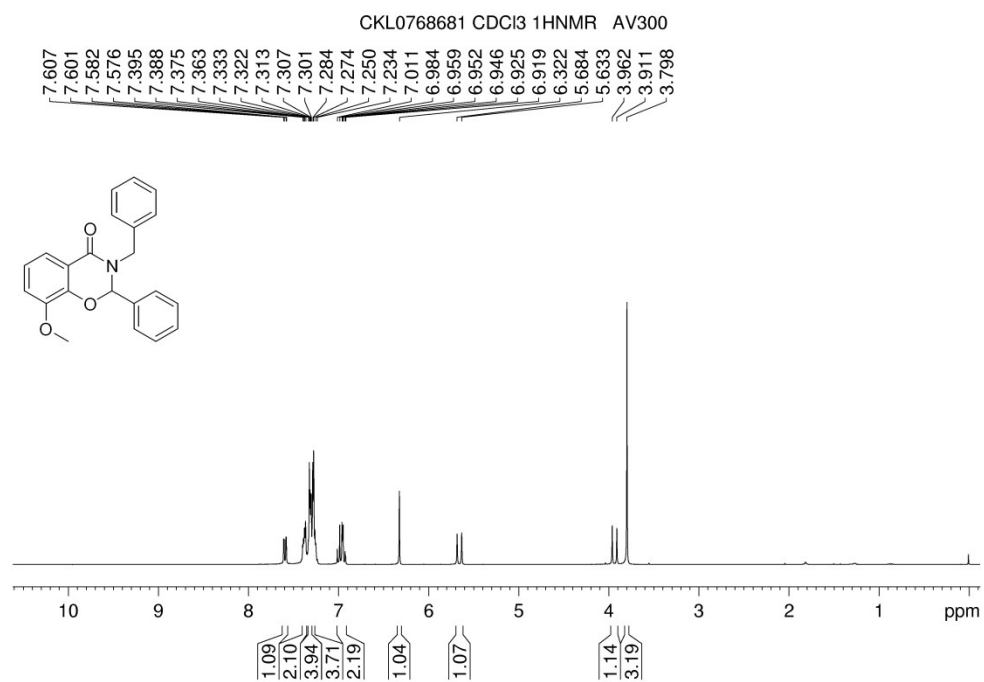


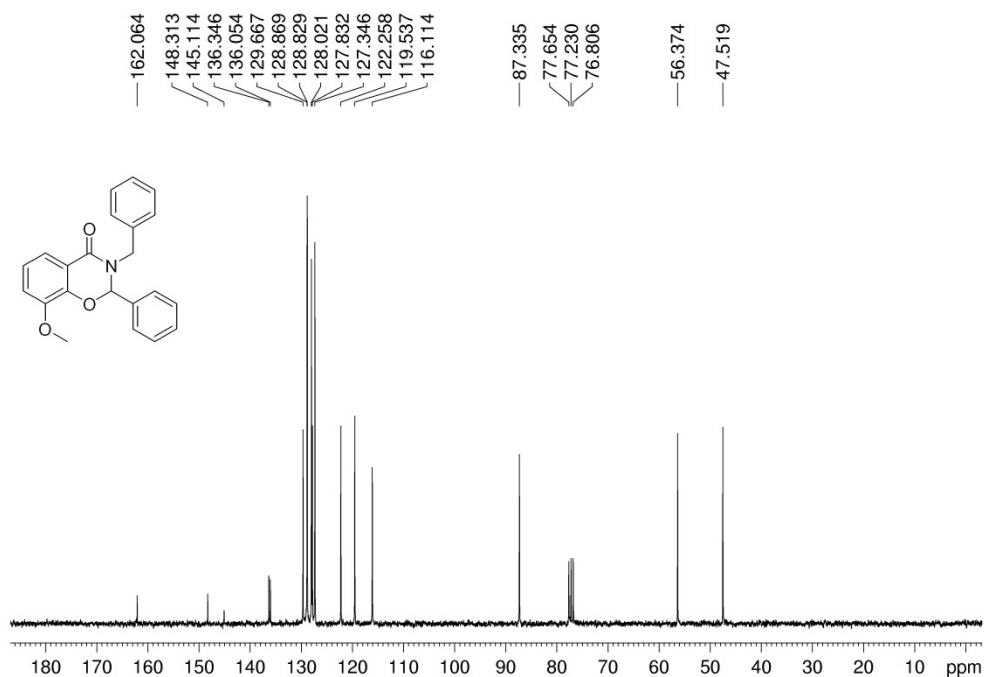
<sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>), <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **2h**



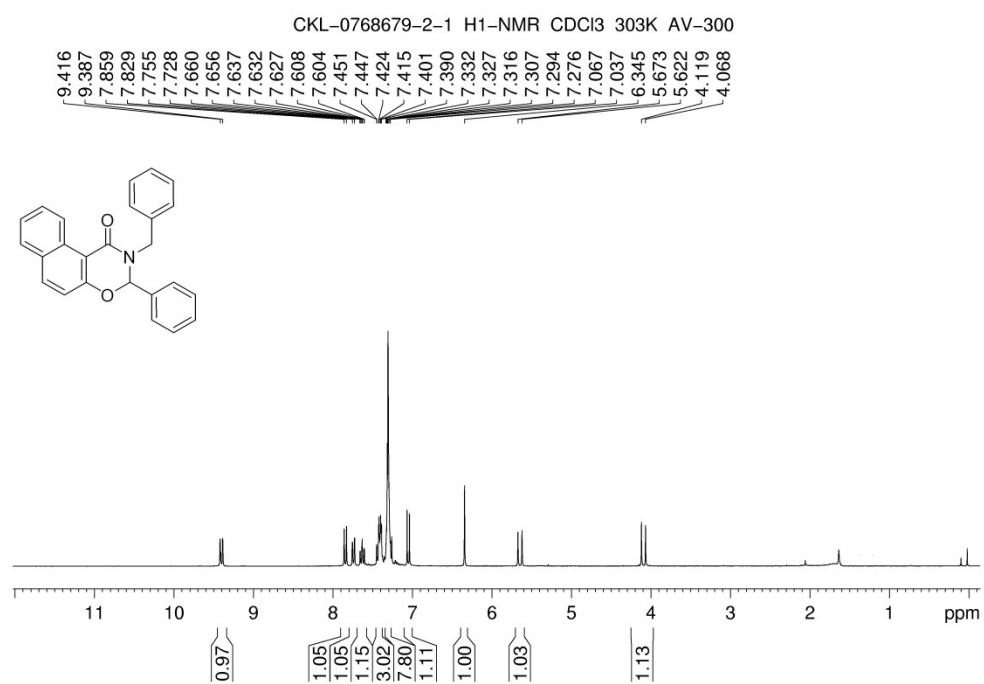


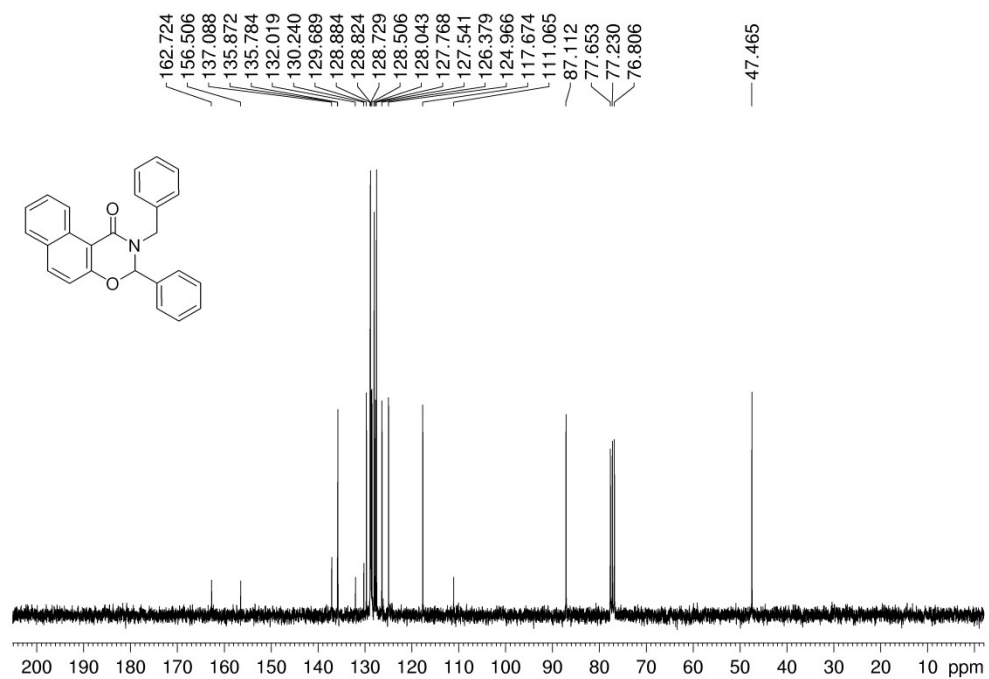
<sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>), <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **2i**



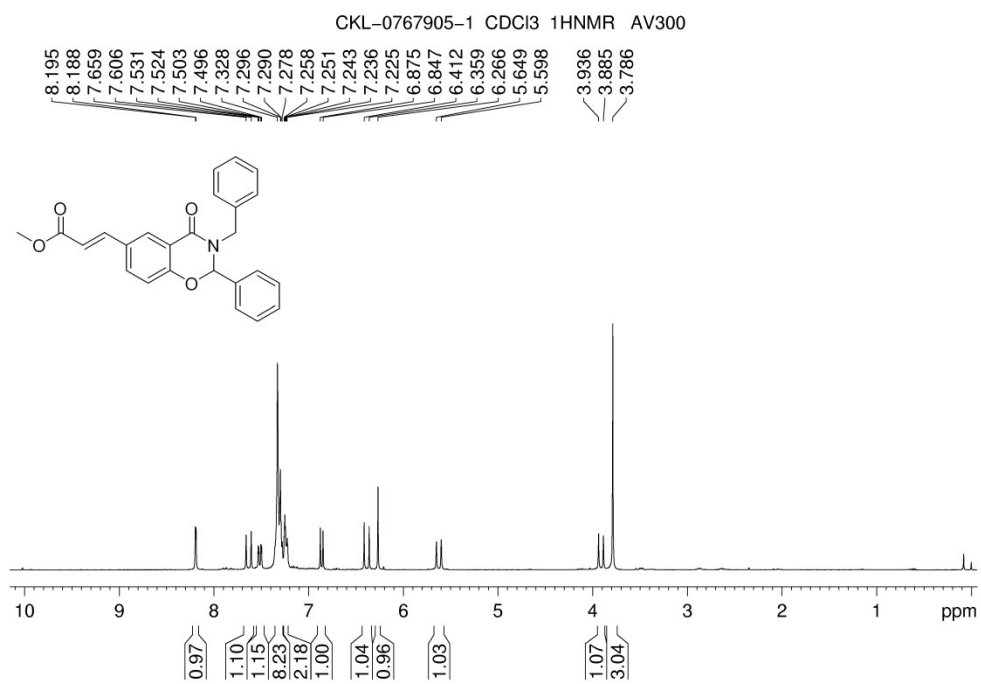


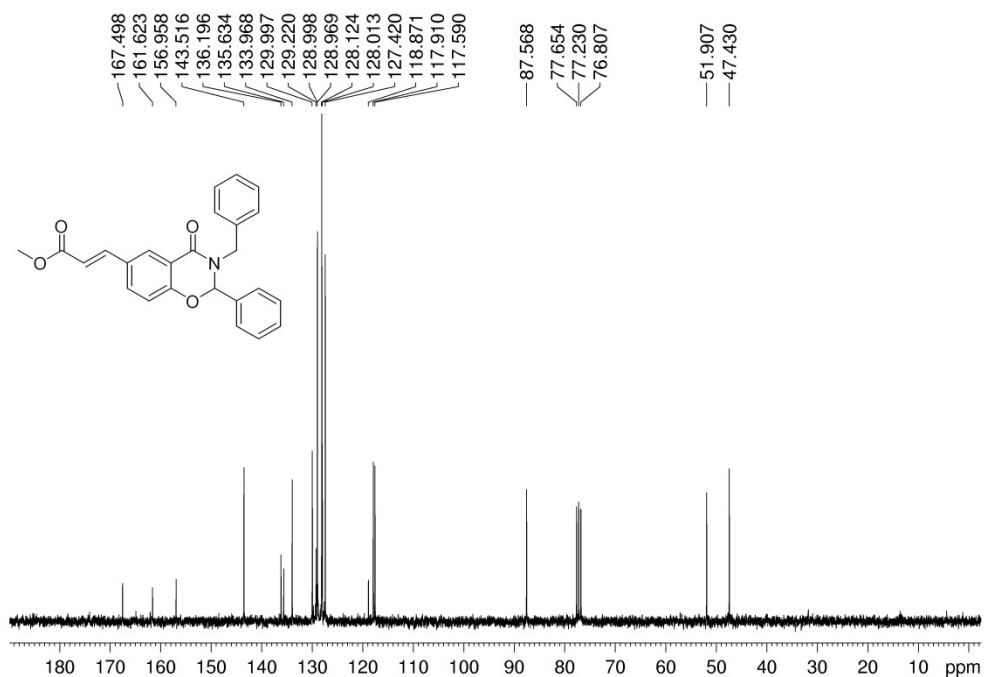
<sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>), <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **2j**



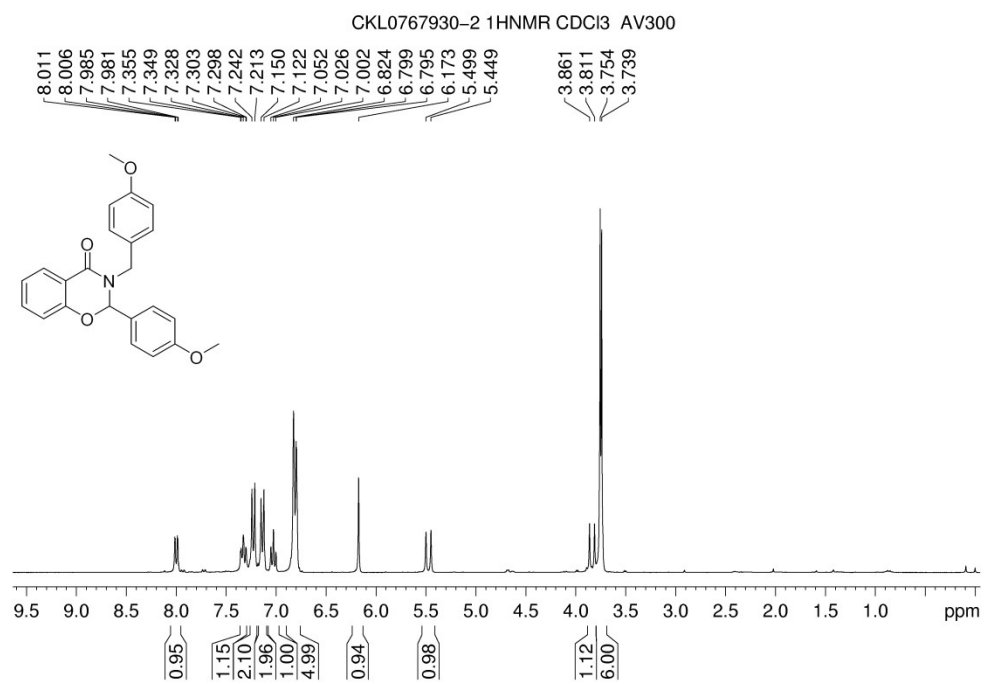


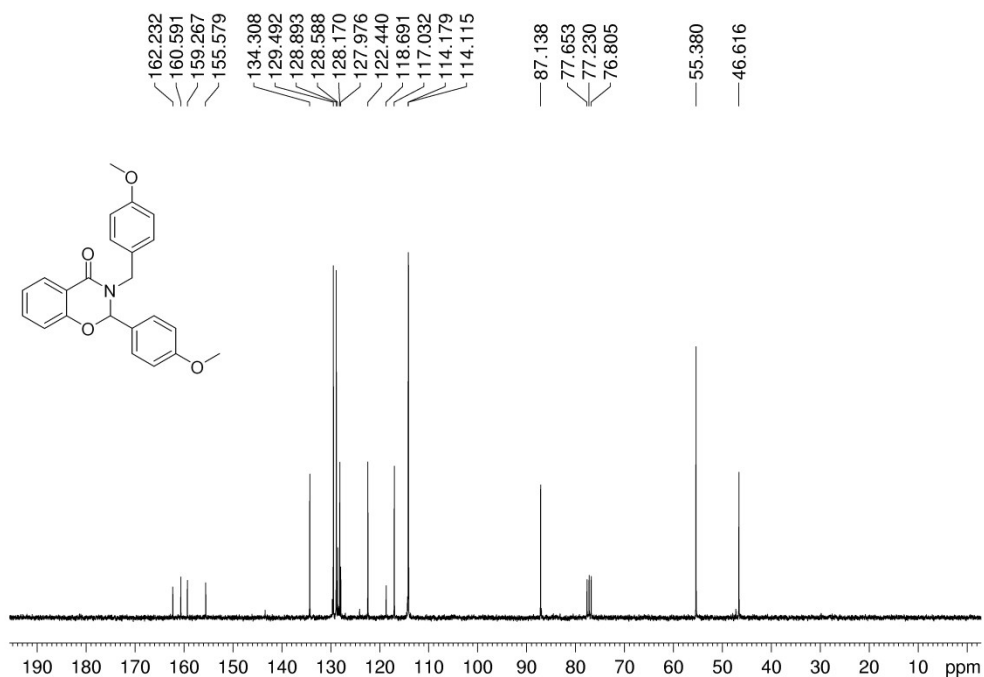
<sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>), <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **2k**



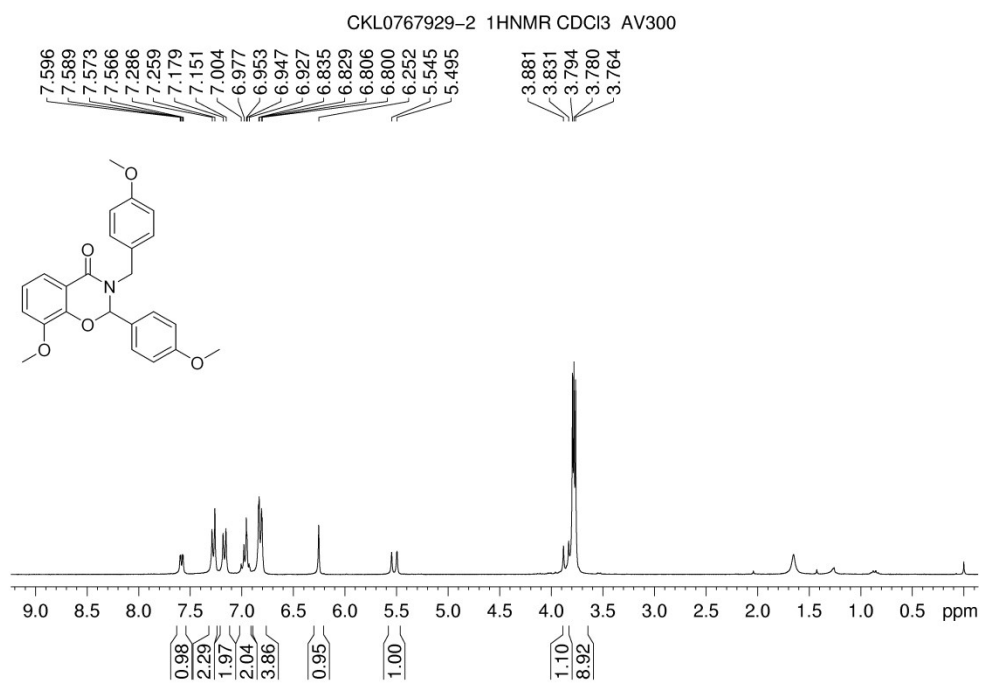


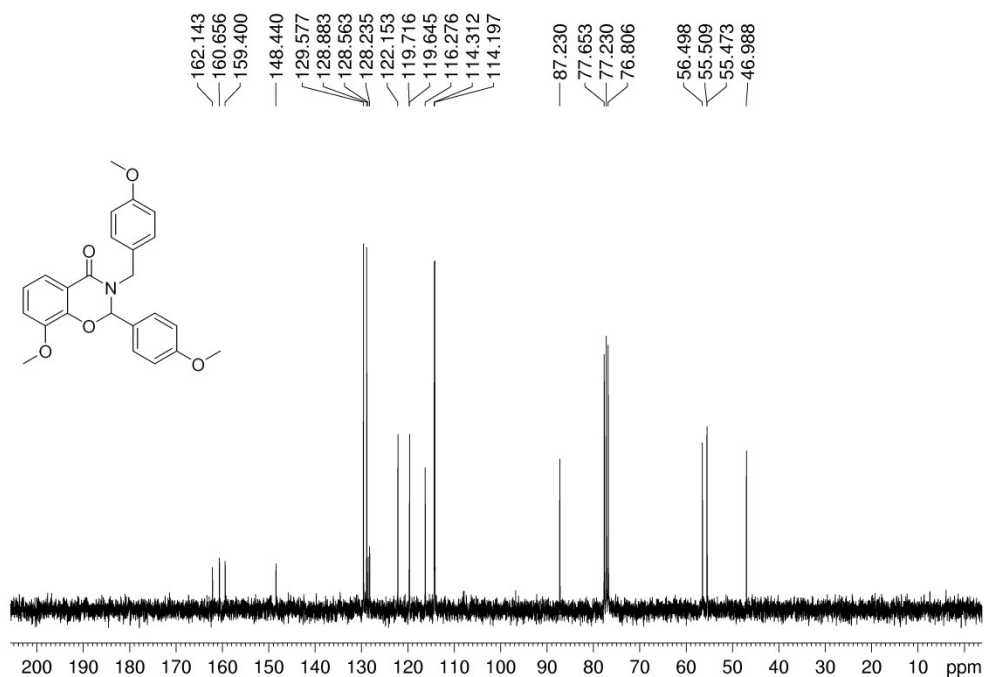
<sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>), <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **21**



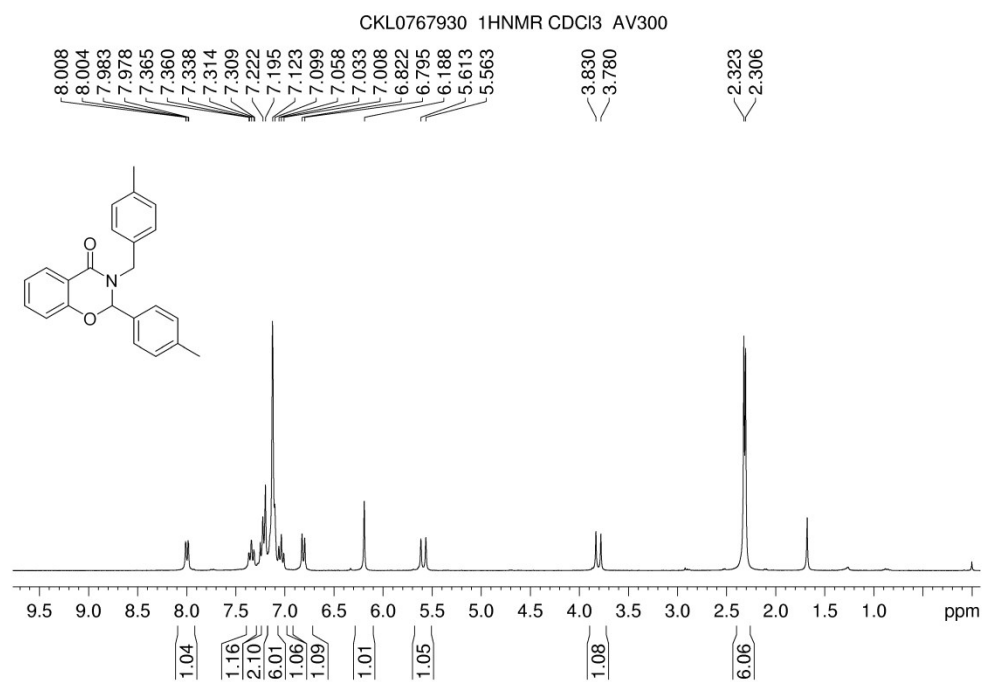


<sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>), <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **2m**

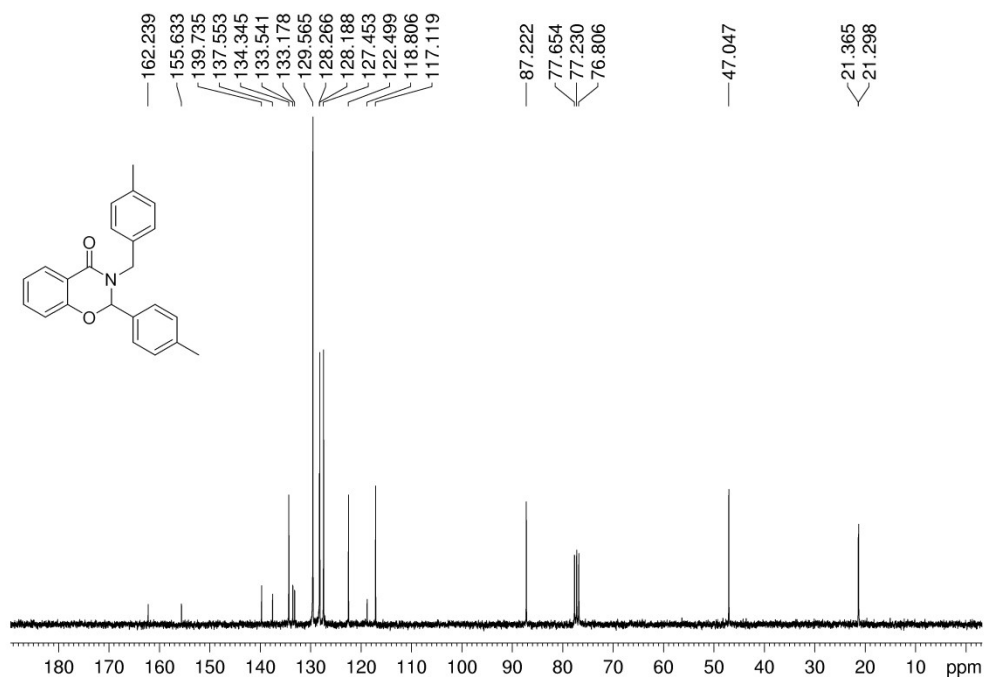




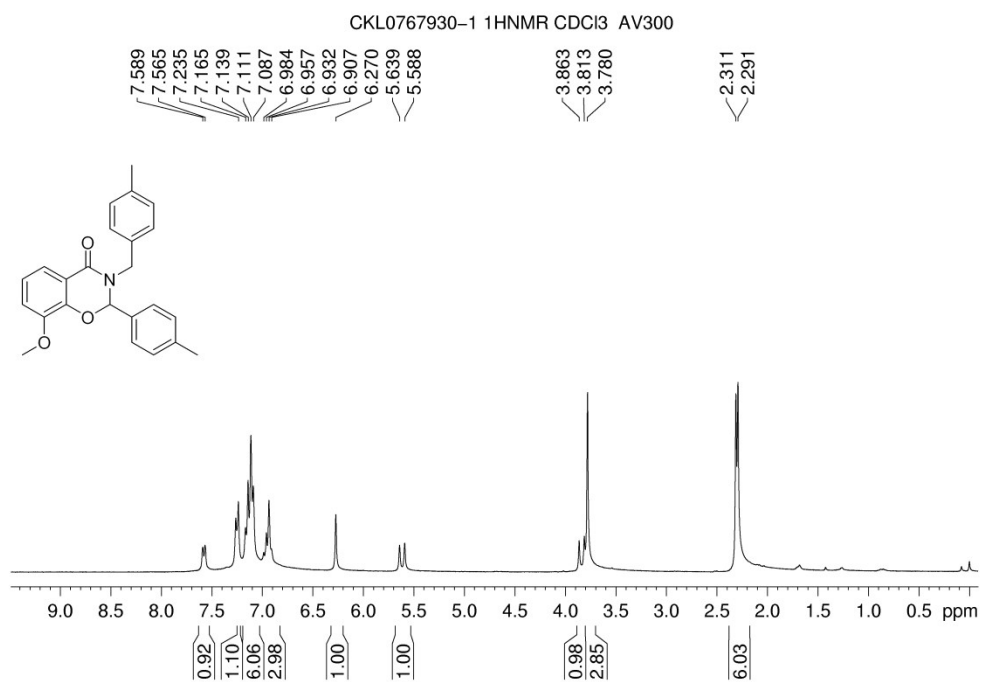
<sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>), <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **2n**

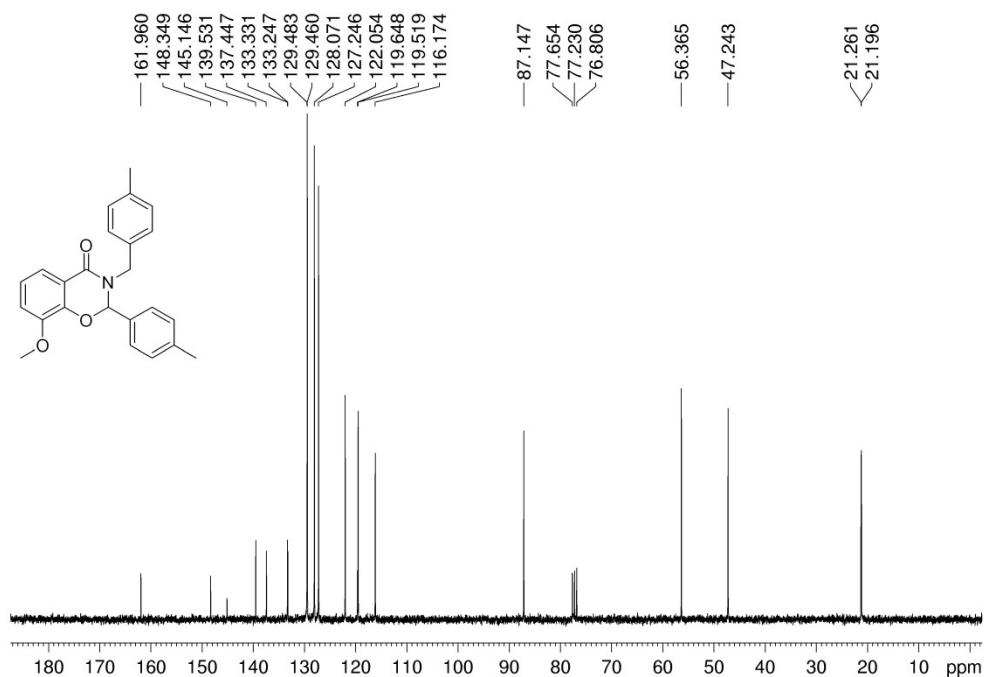




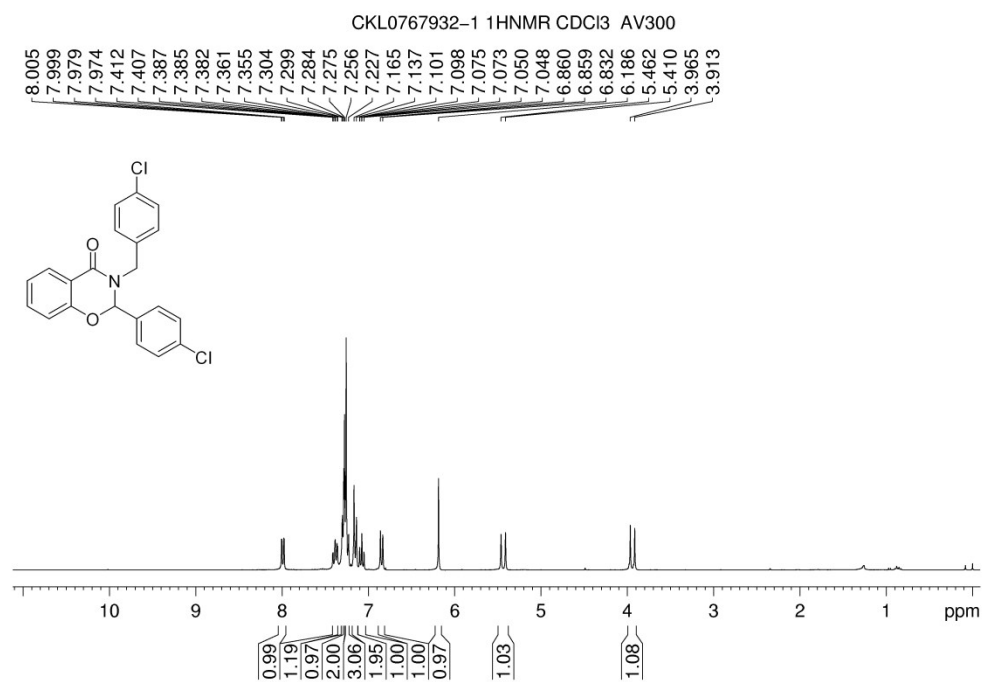


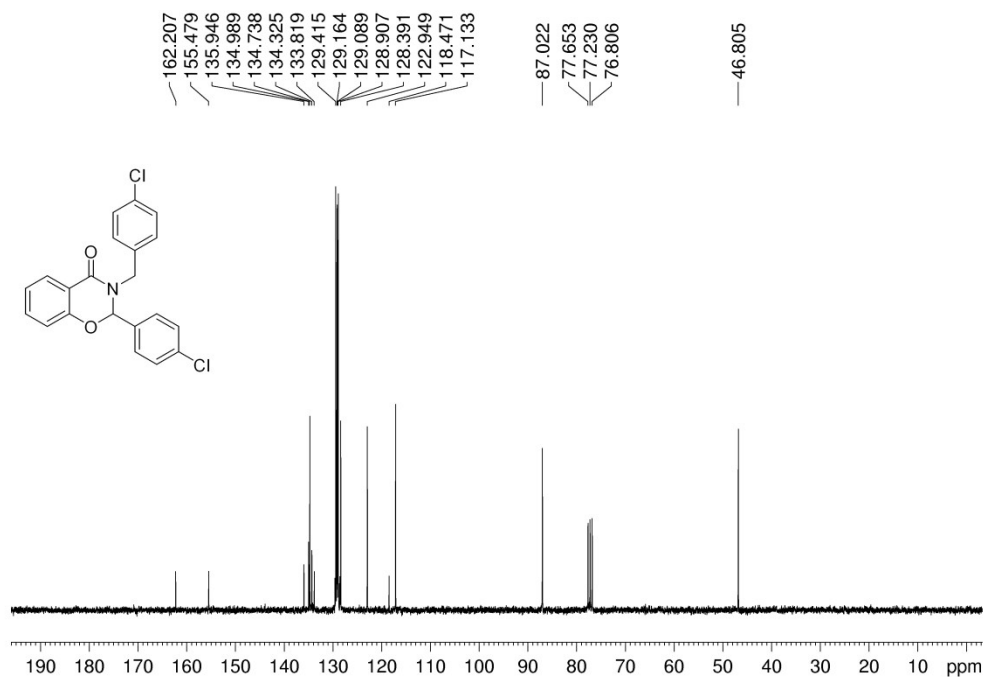
<sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>), <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **2o**



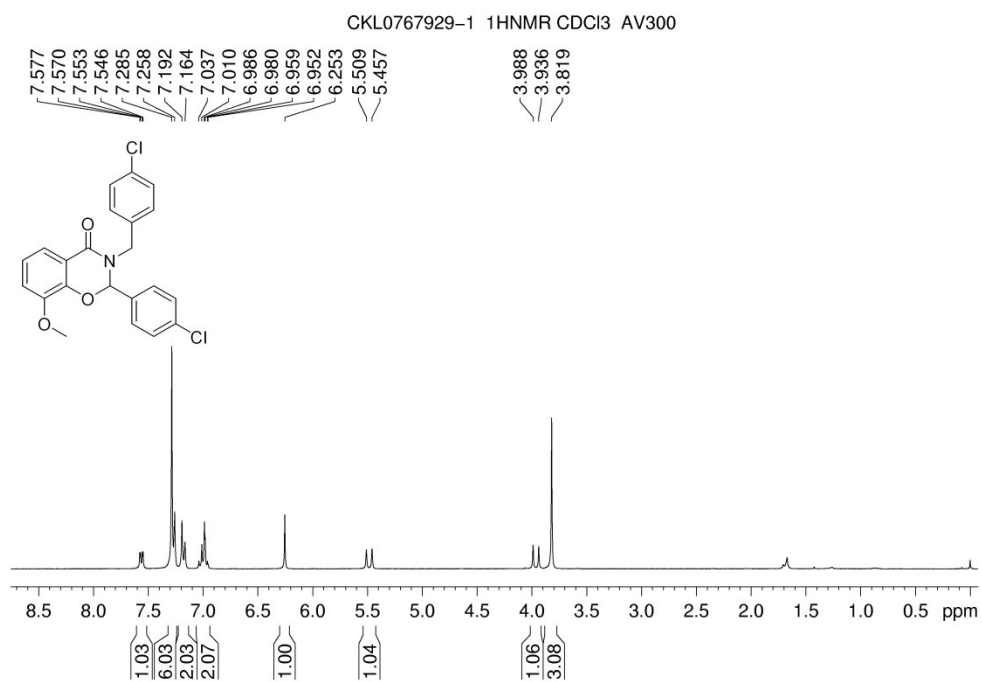


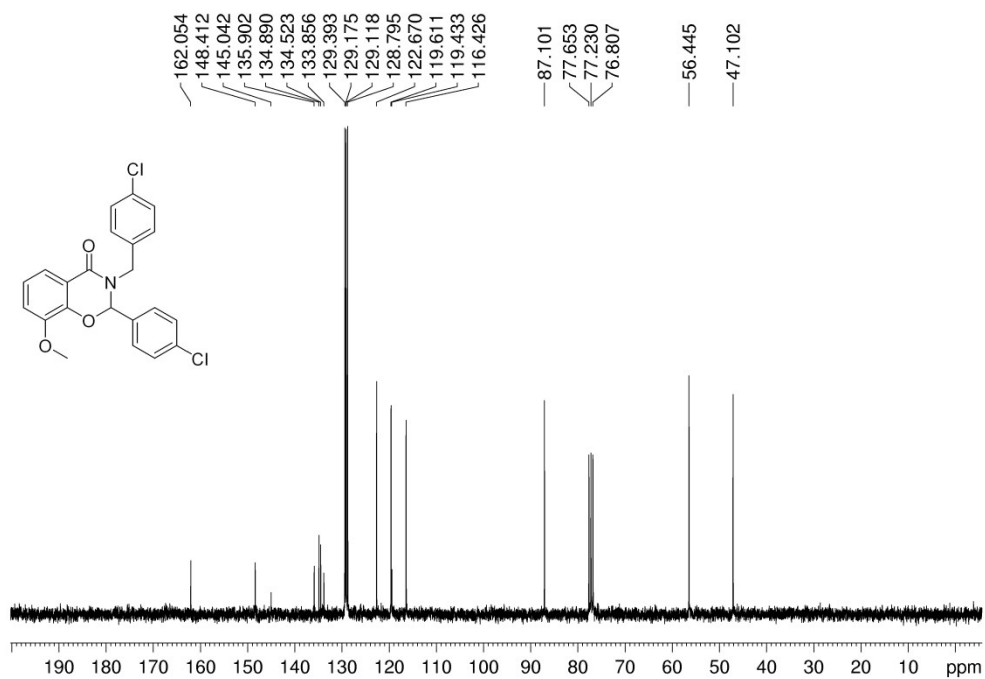
<sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>), <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **2p**



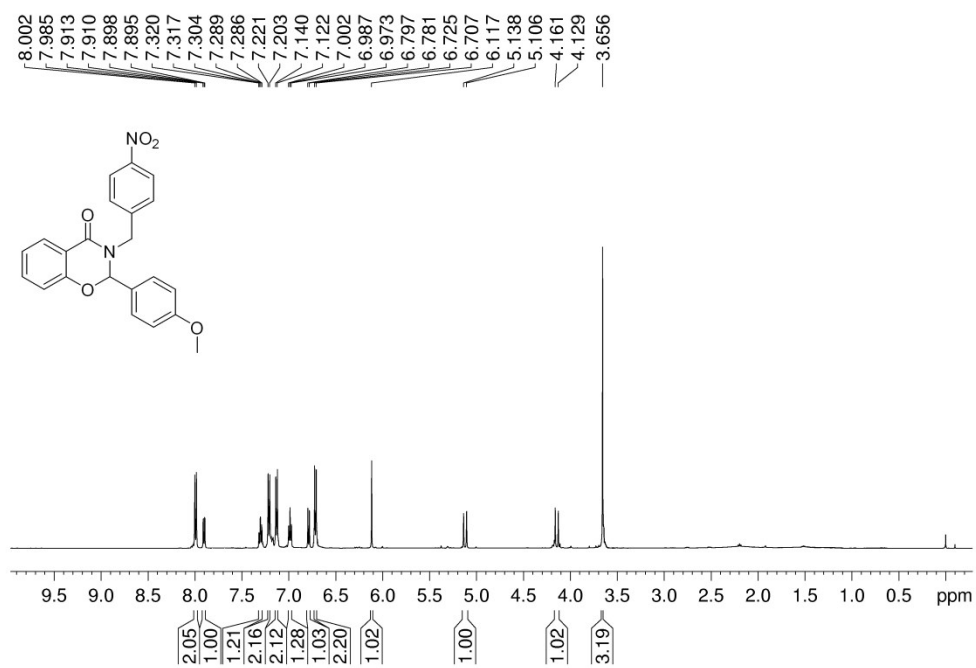


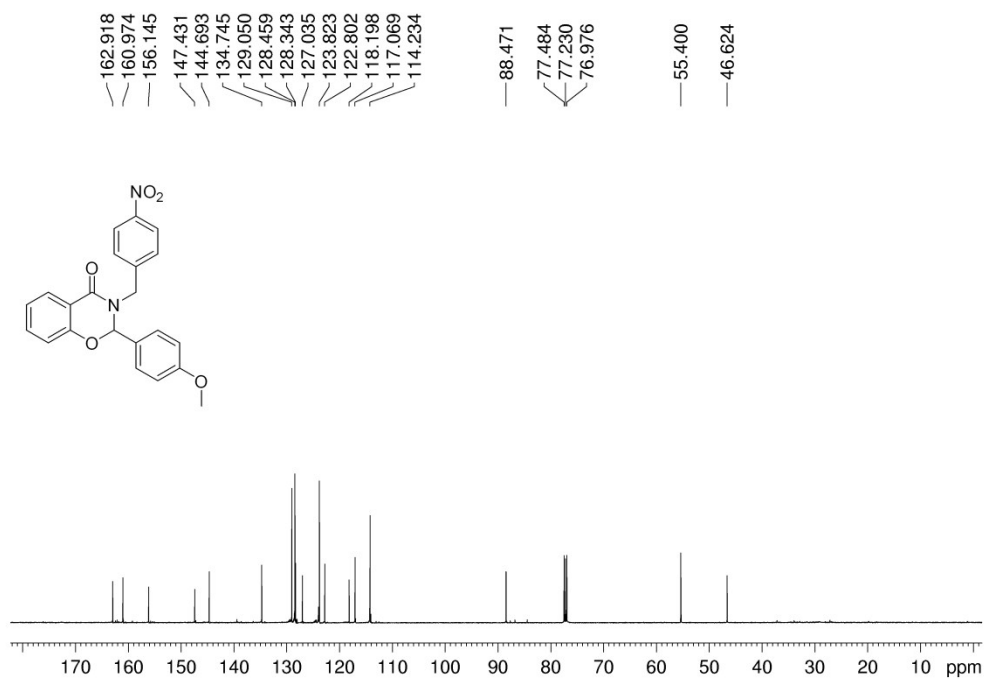
<sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>), <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **2q**



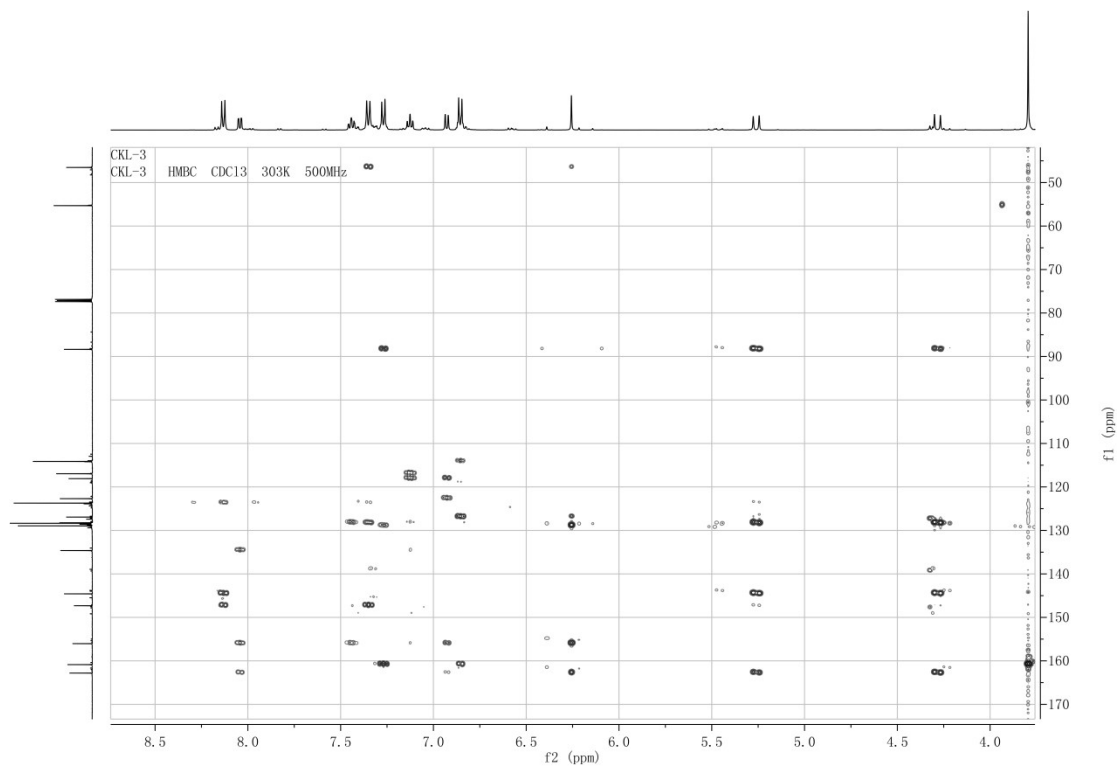


<sup>1</sup>H NMR (500 MHz, DMSO), <sup>13</sup>C NMR (125 MHz, CDCl<sub>3</sub>) of compound **2r**

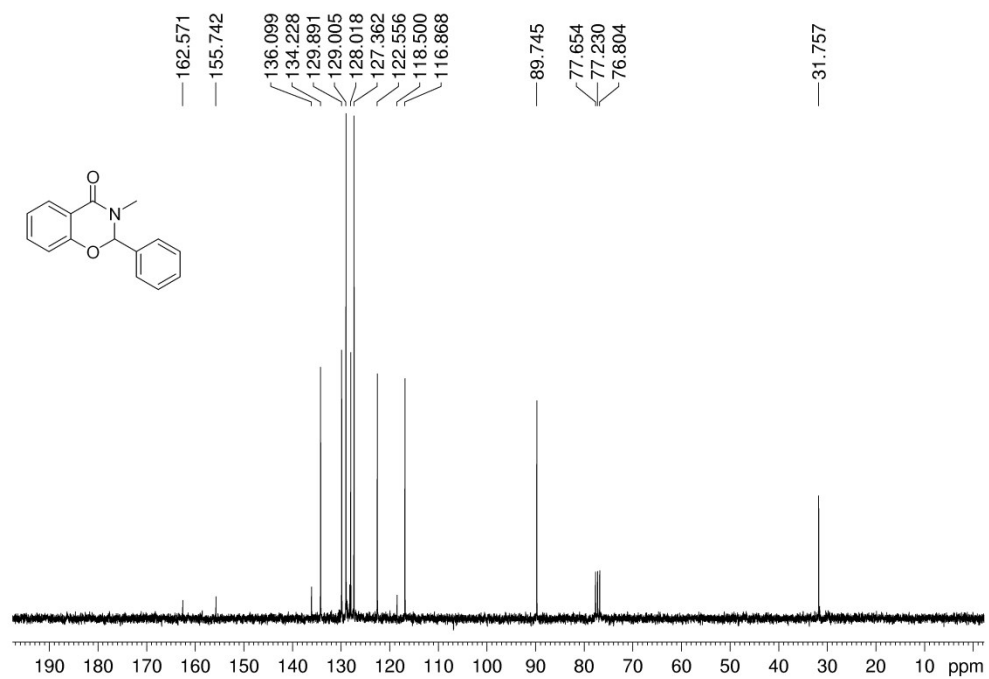
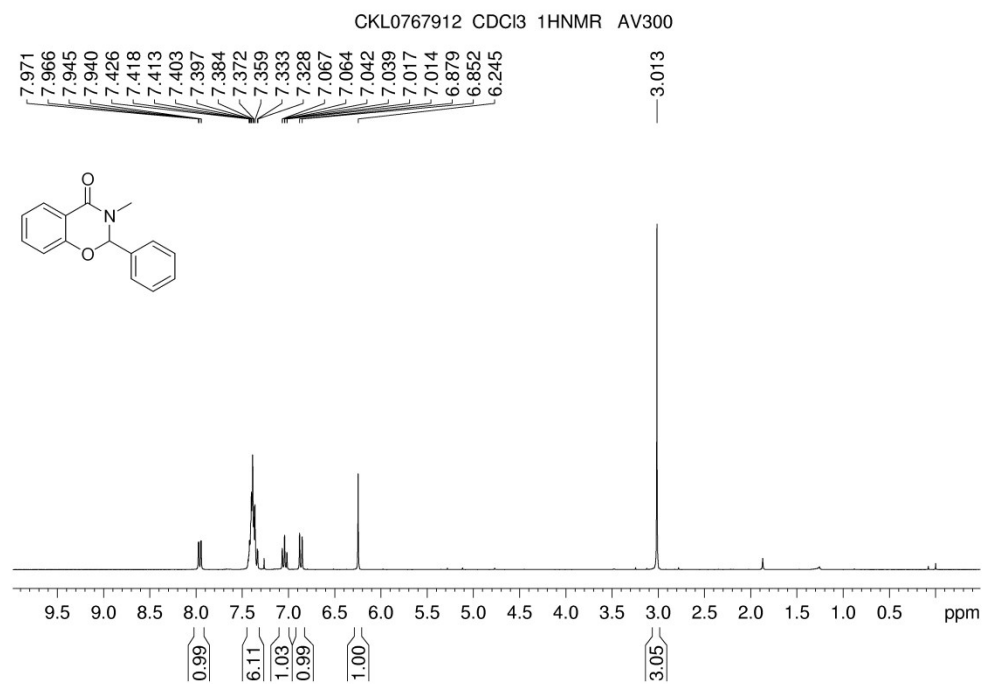




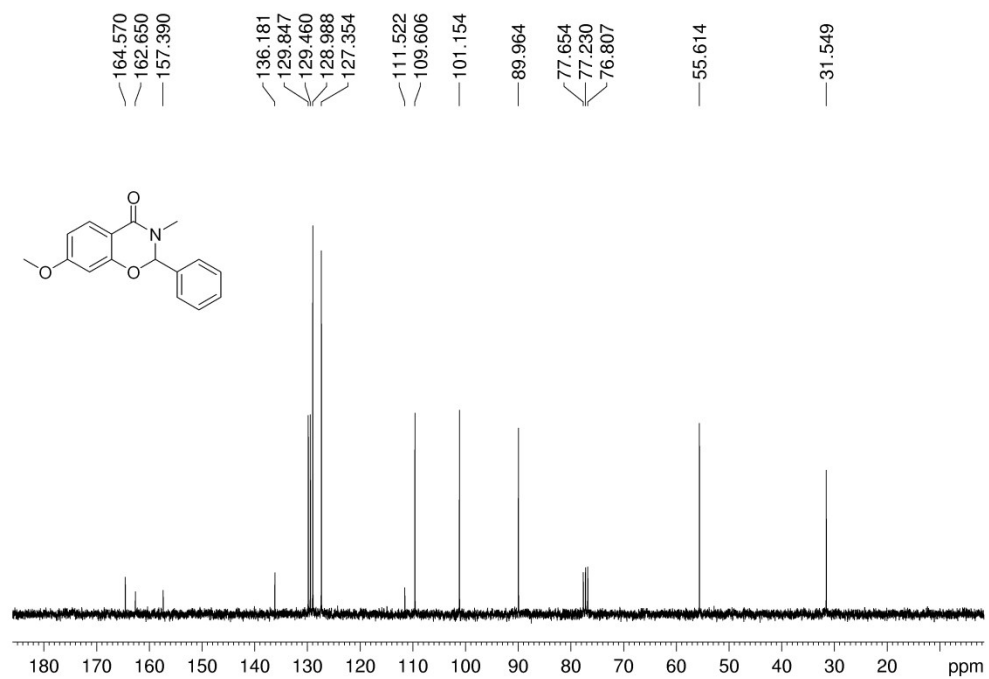
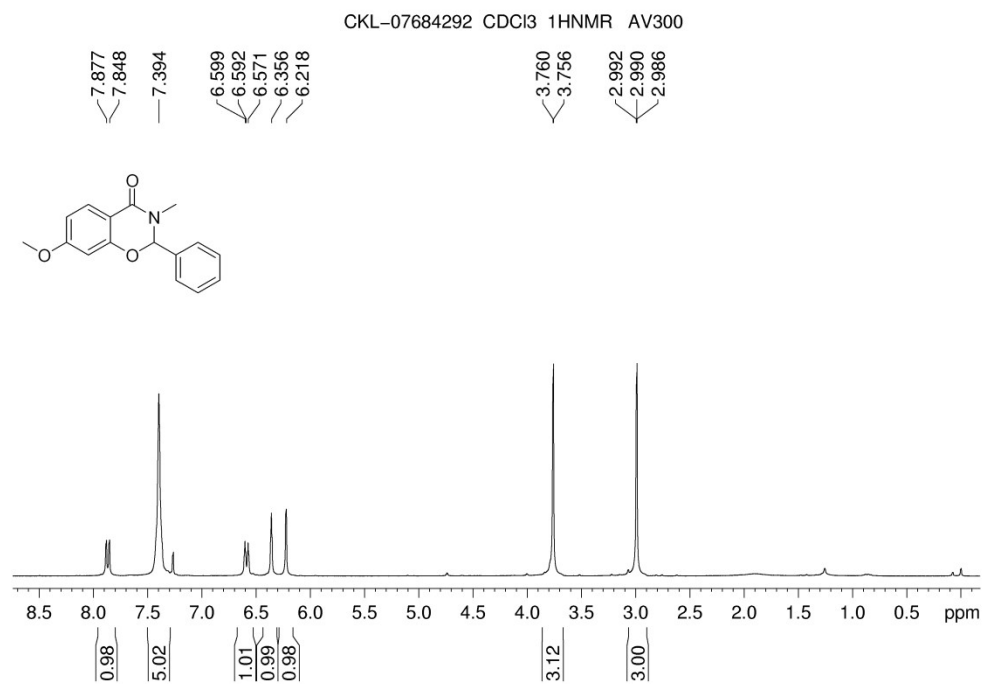
HMBC (500 MHz,  $\text{CDCl}_3$ ) of compound **2r**



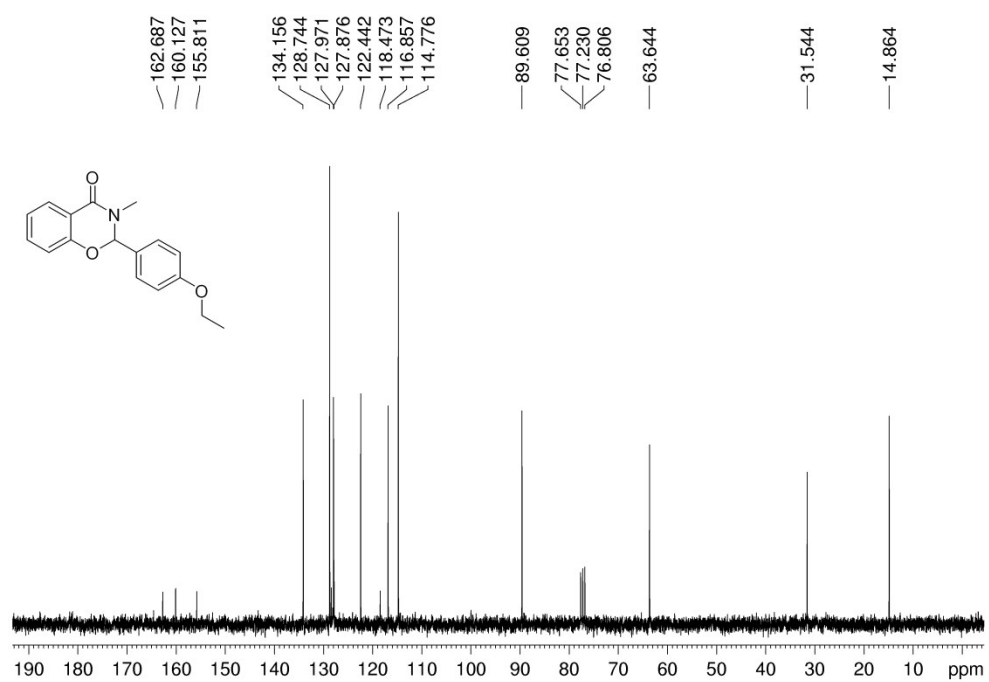
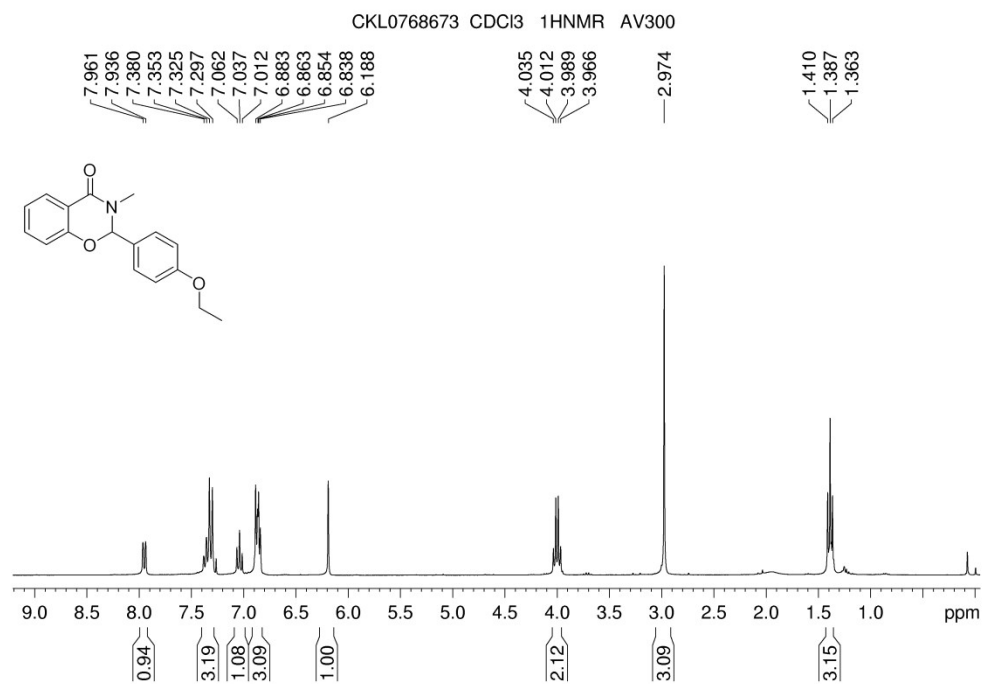
$^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ),  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of compound **2s**



$^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ),  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of compound **2t**

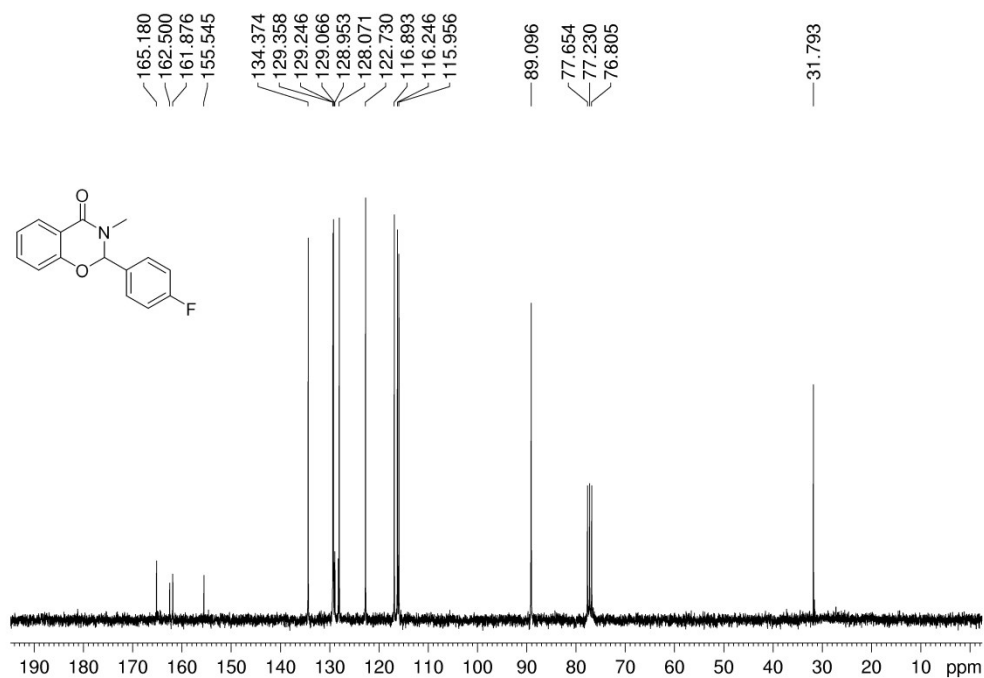
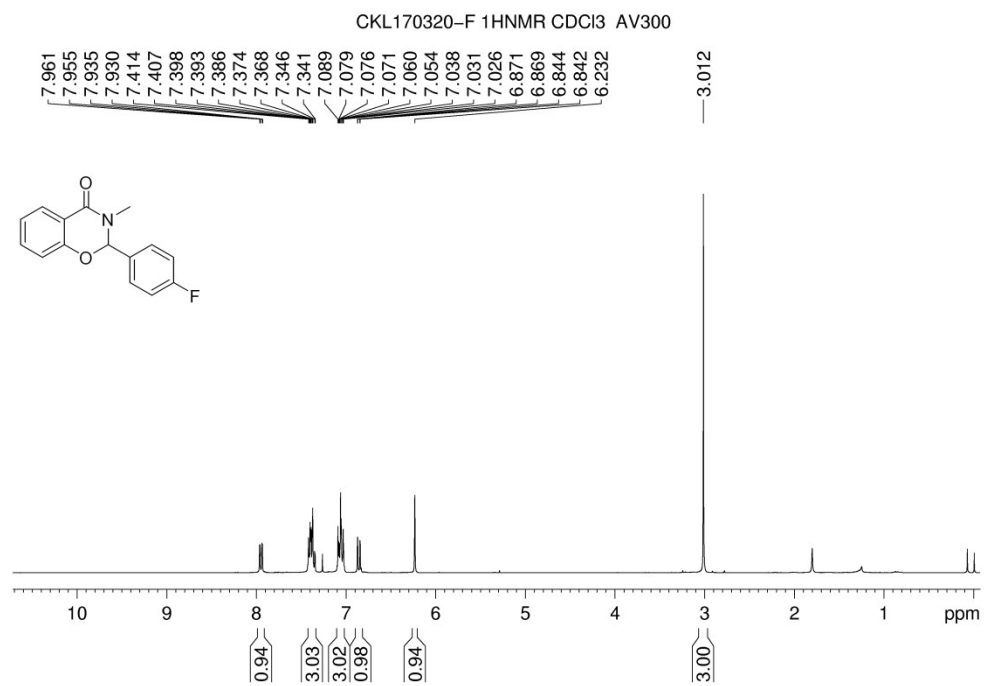


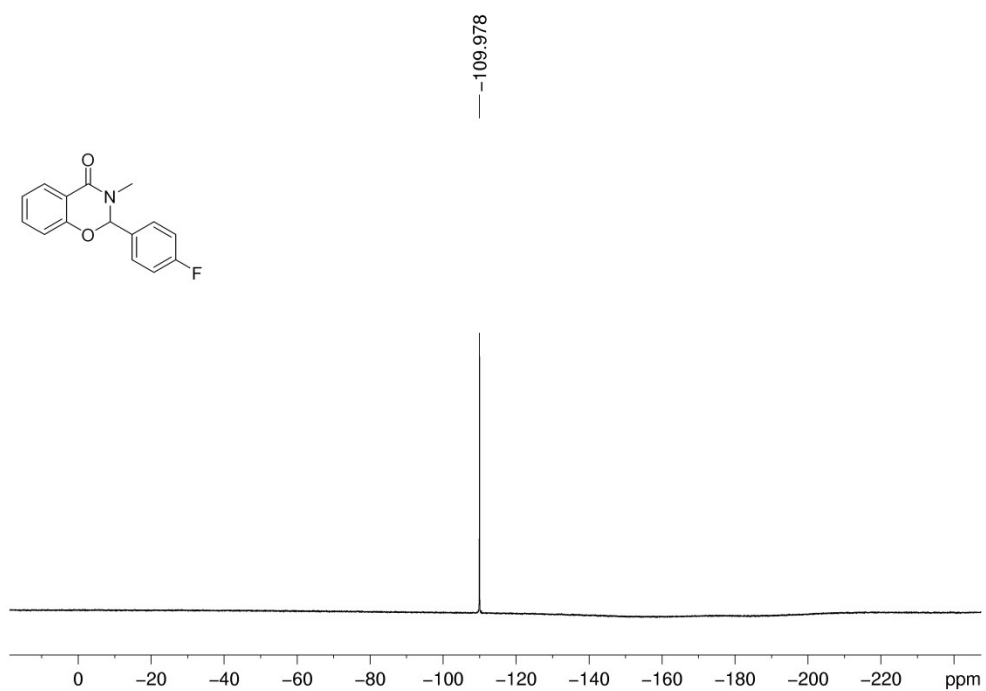
$^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ),  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of compound **2u**



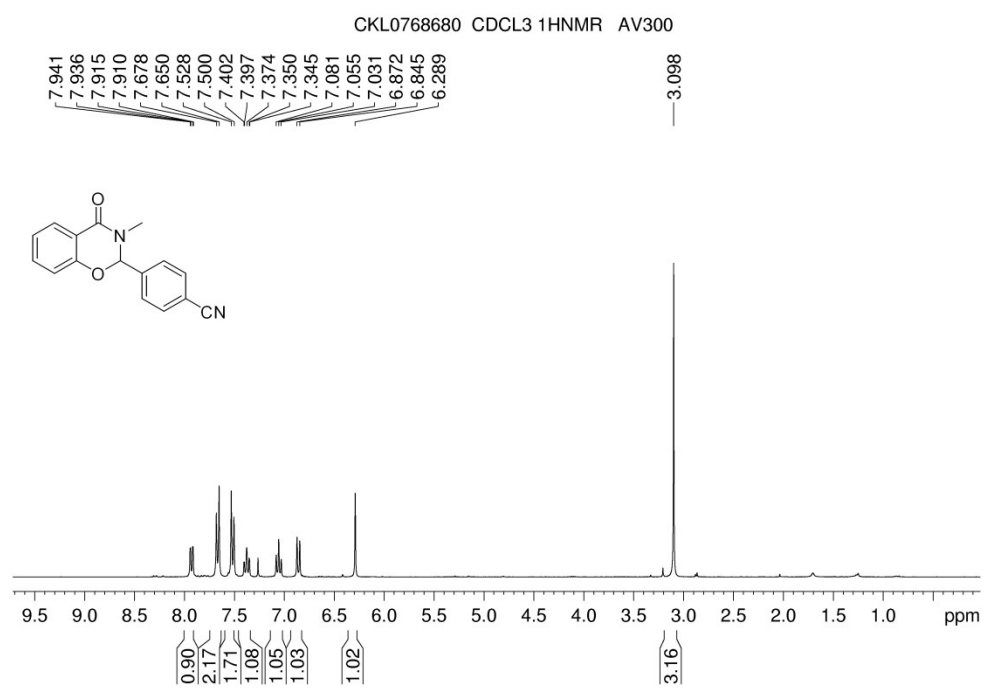


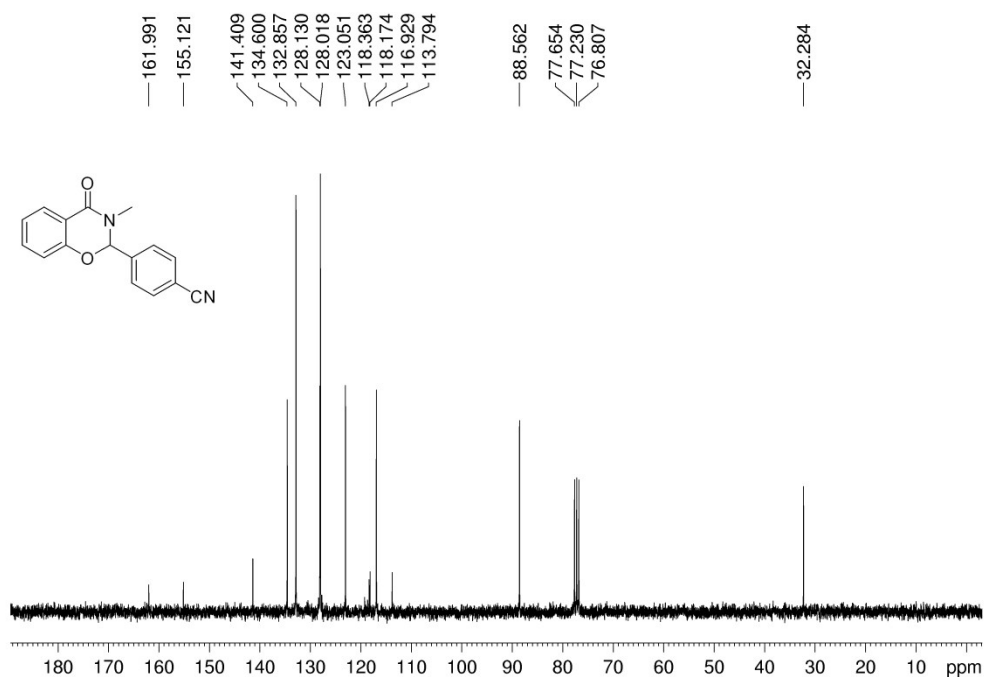
$^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ),  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ),  $^{19}\text{F}$  NMR (282 MHz,  $\text{CDCl}_3$ ) of compound **2v**



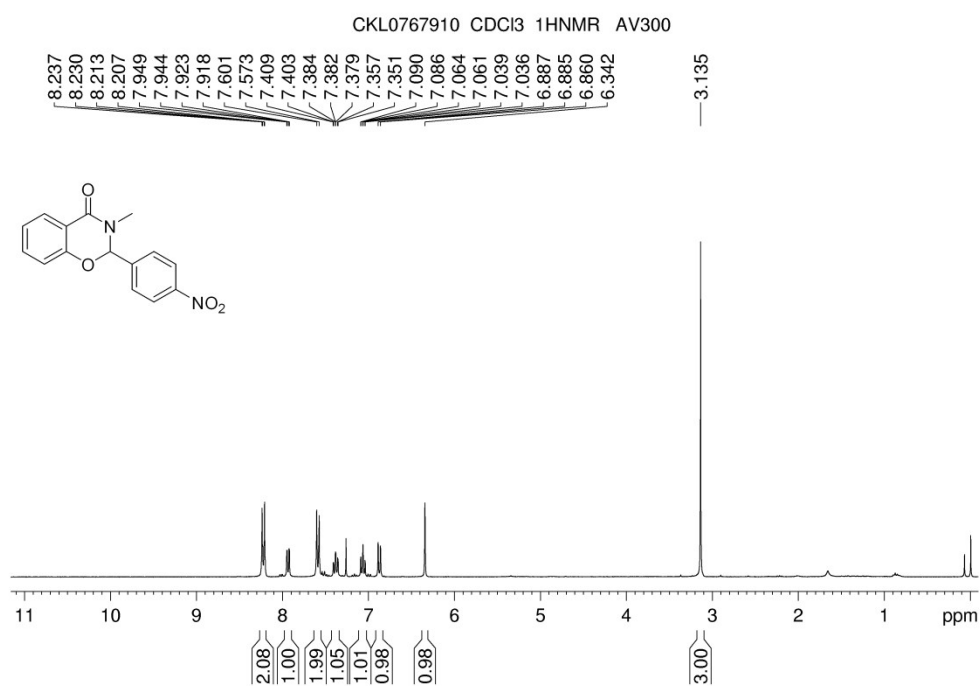


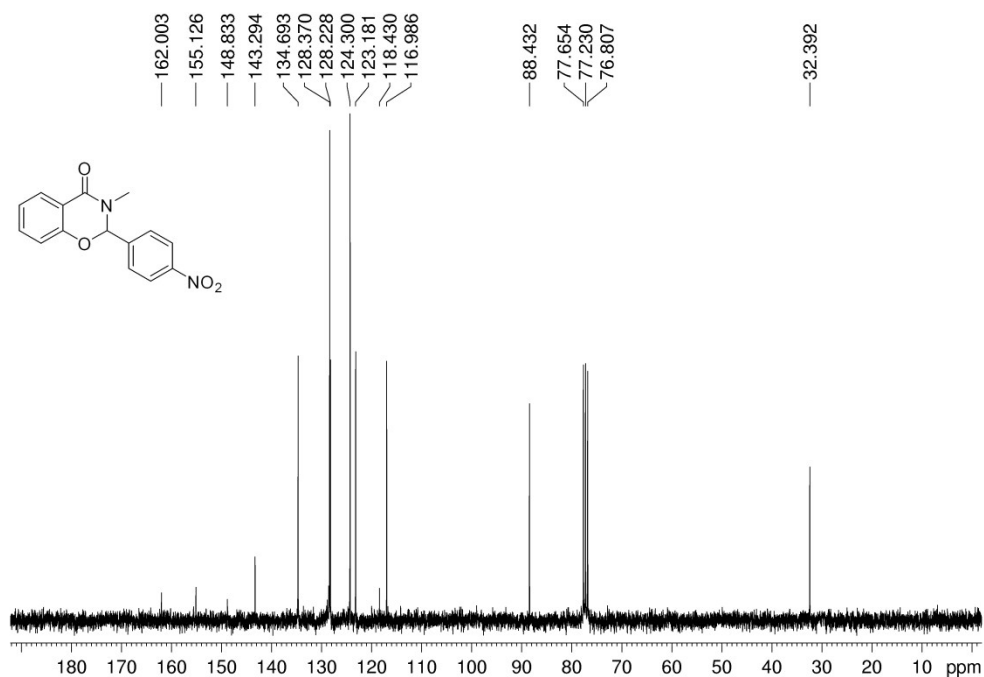
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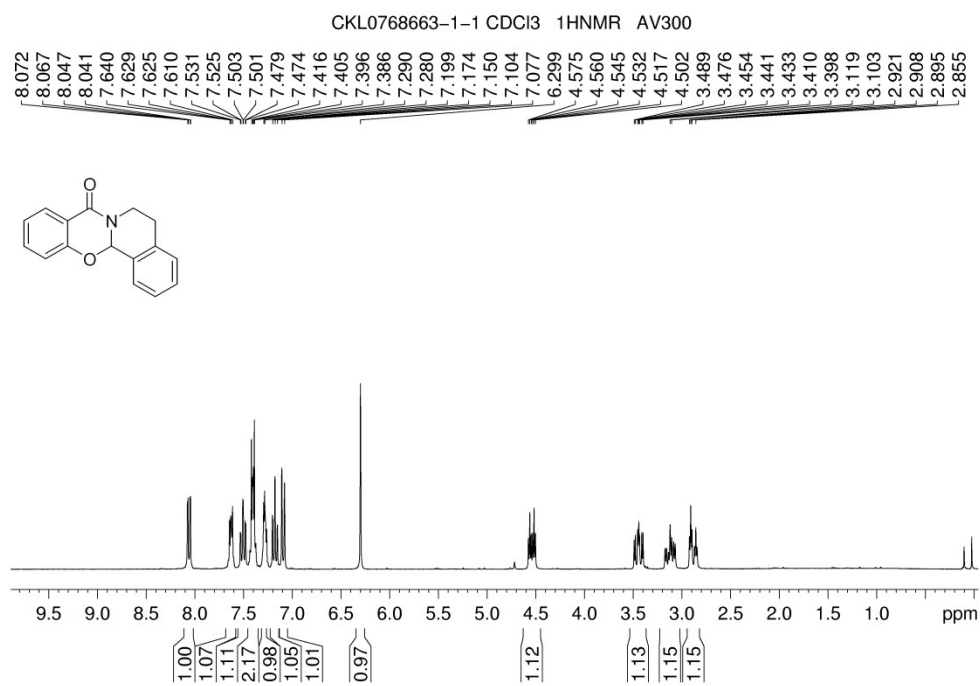


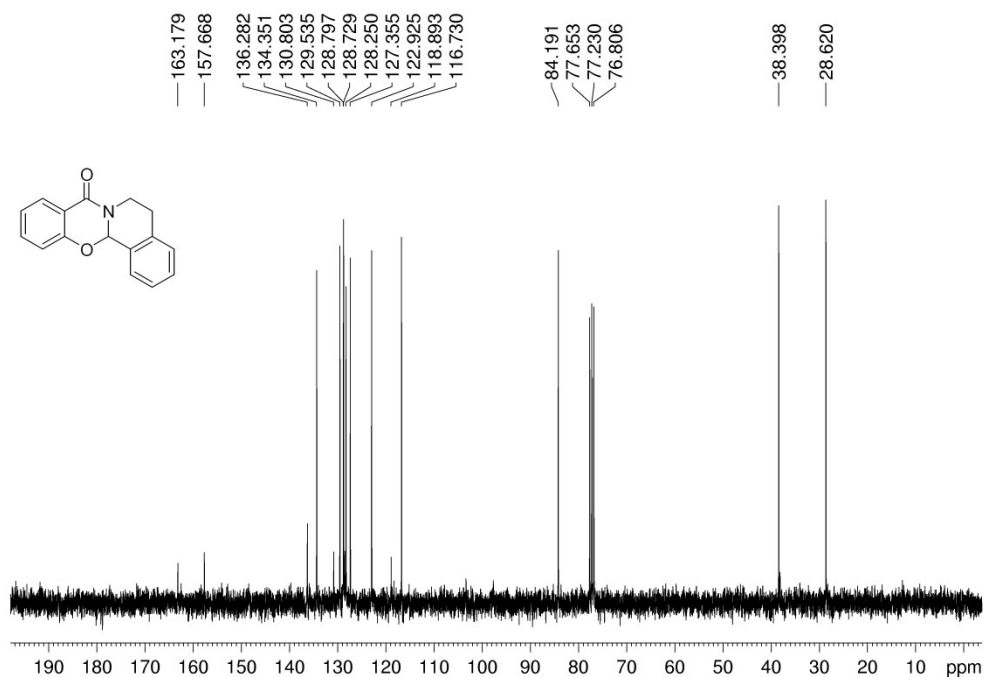
<sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>), <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **2x**



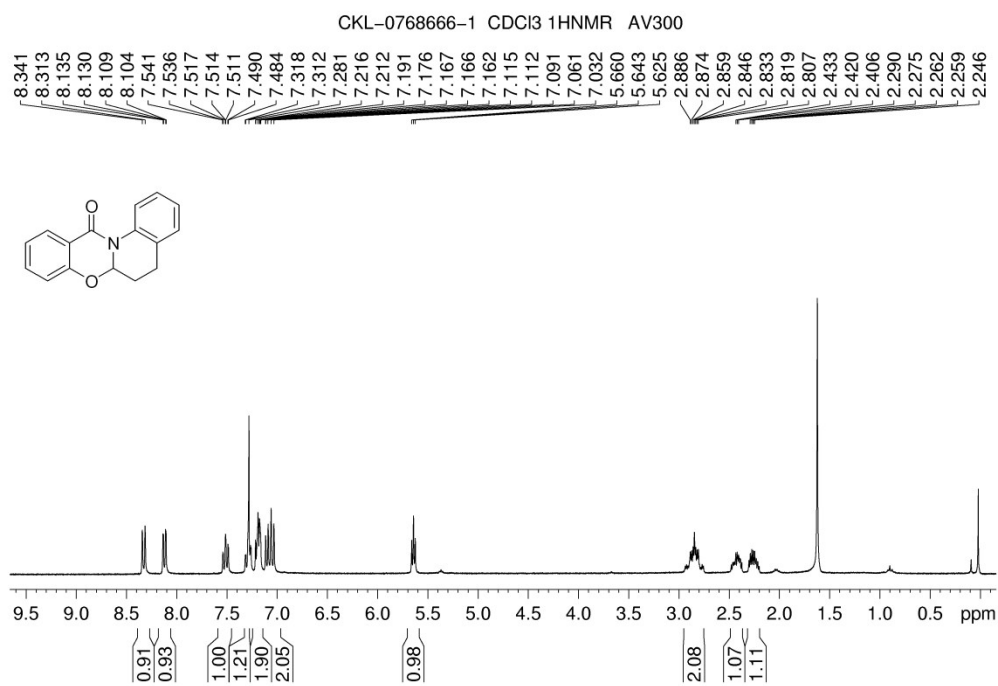


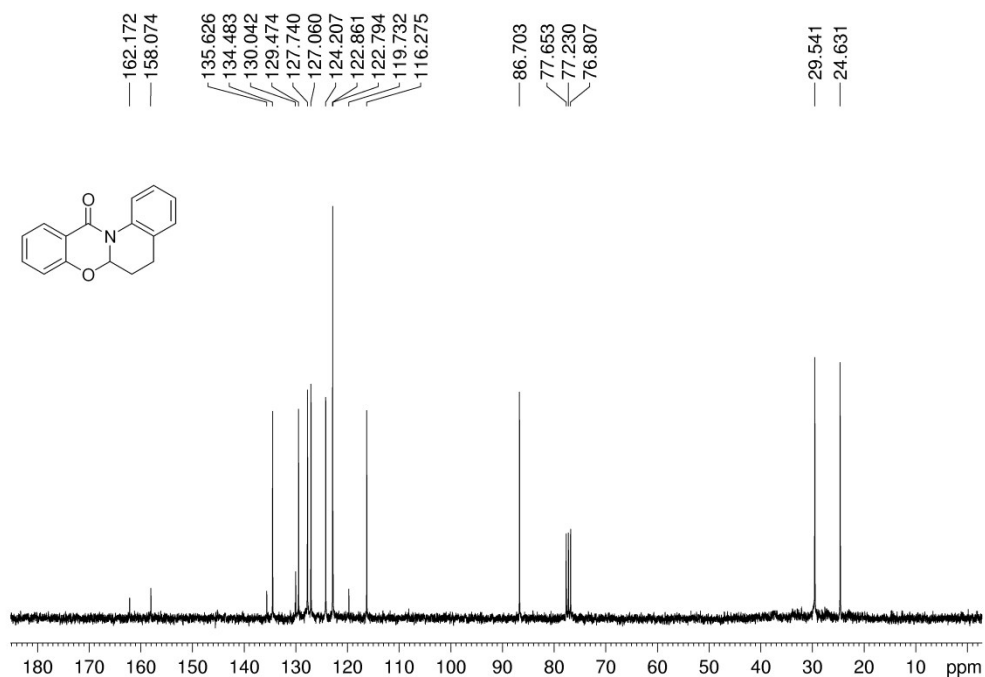
<sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>), <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **2y**



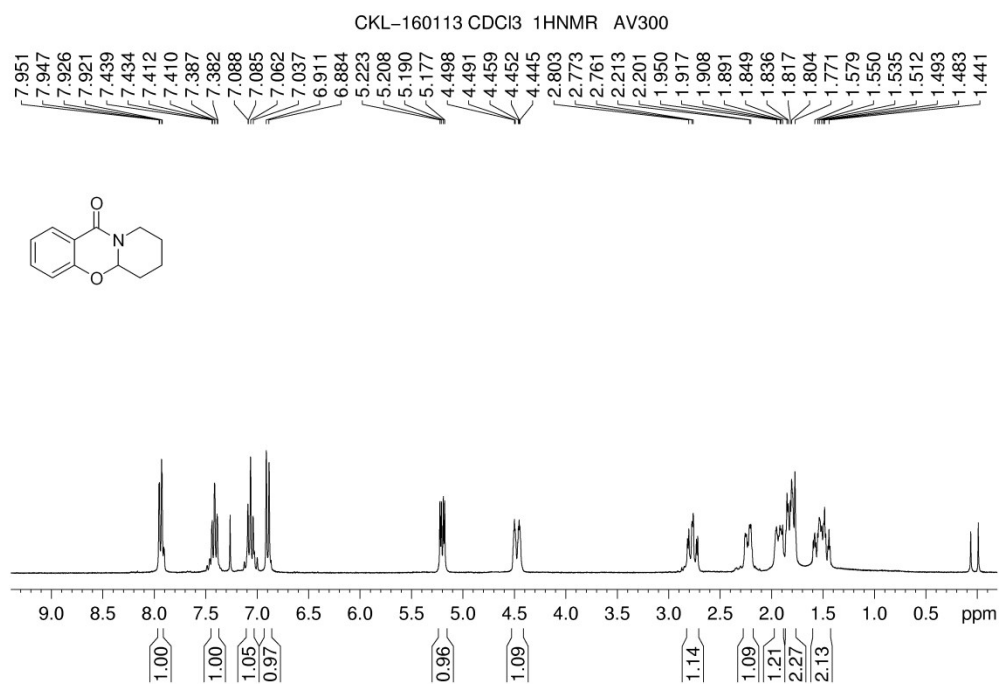


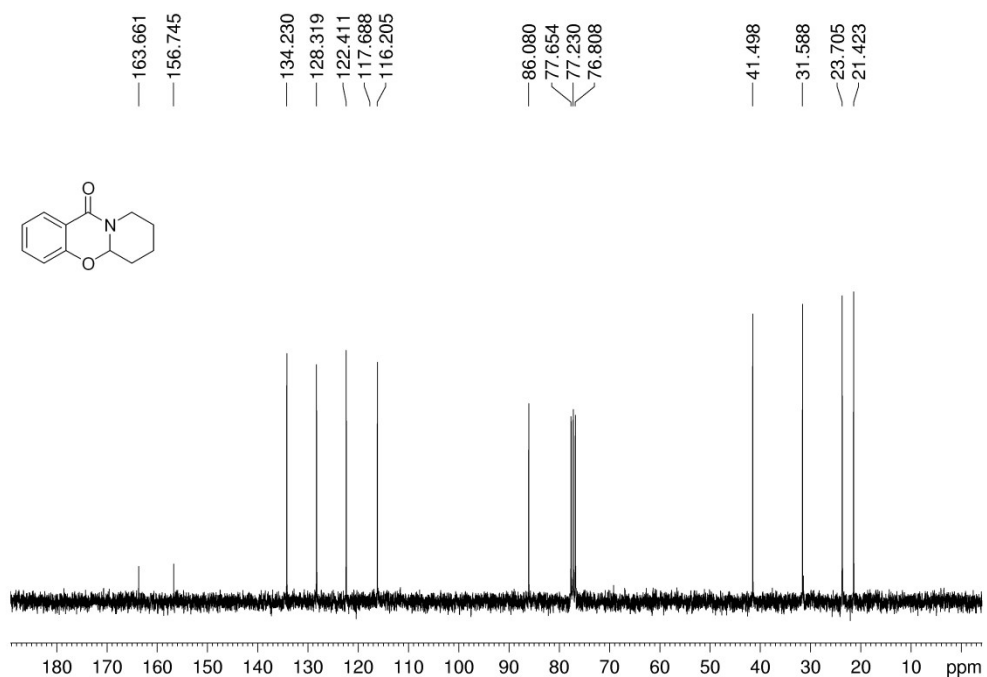
$^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ),  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of compound **2z**



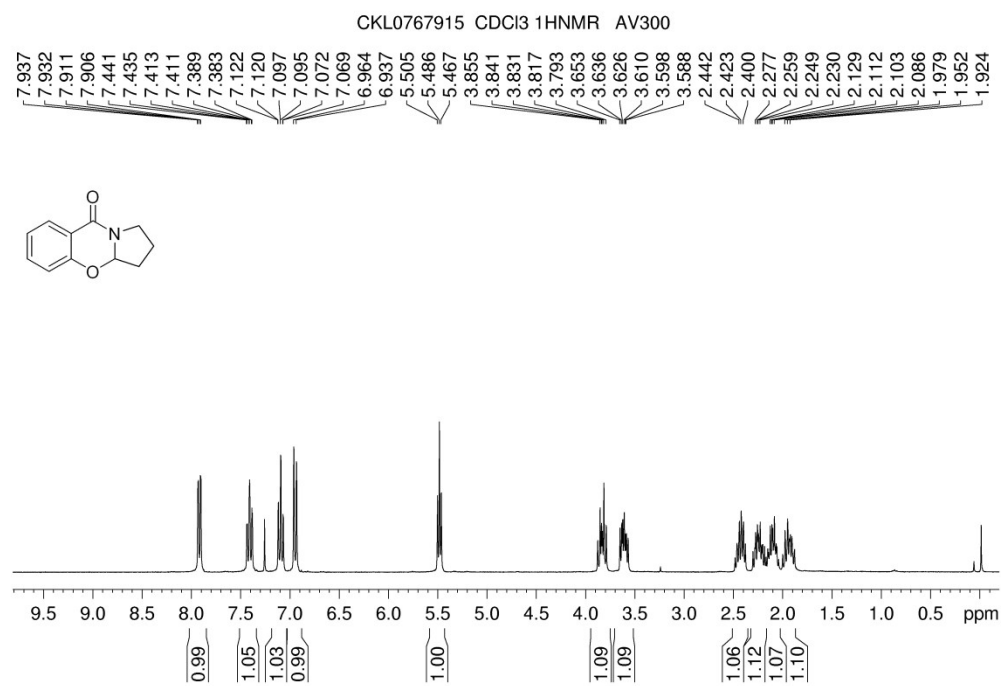


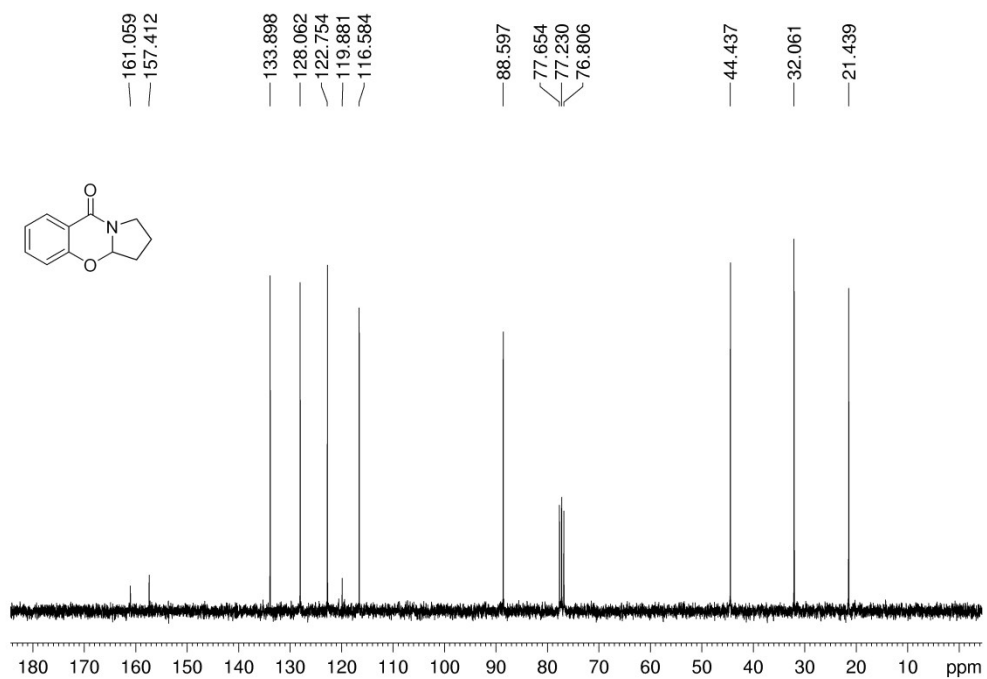
<sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>), <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **2a'**



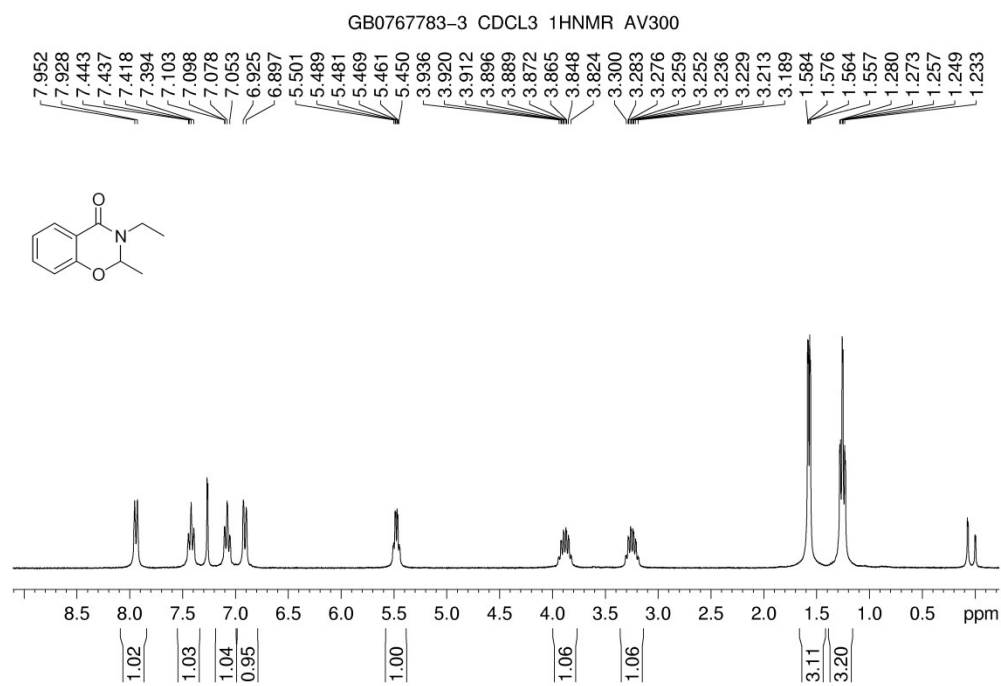


<sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>), <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **2b'**

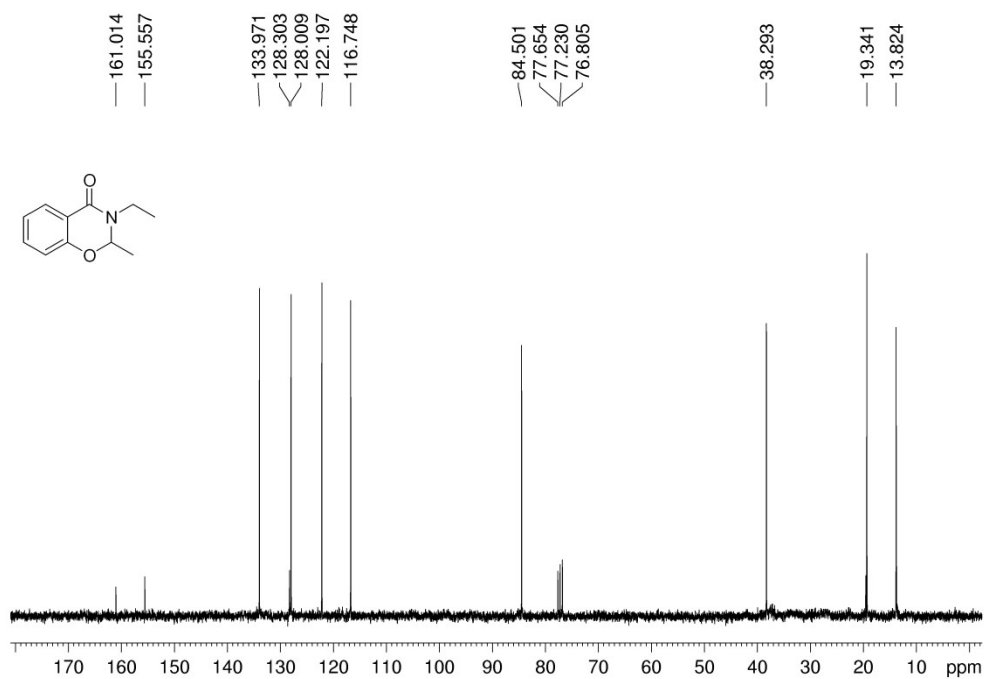




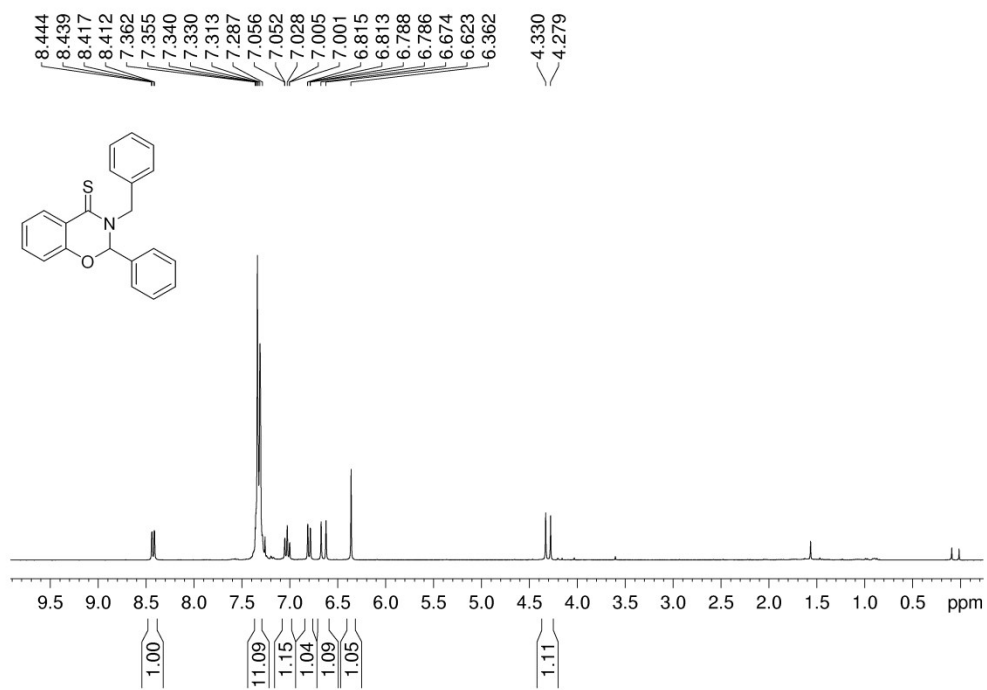
<sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>), <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **2c'**

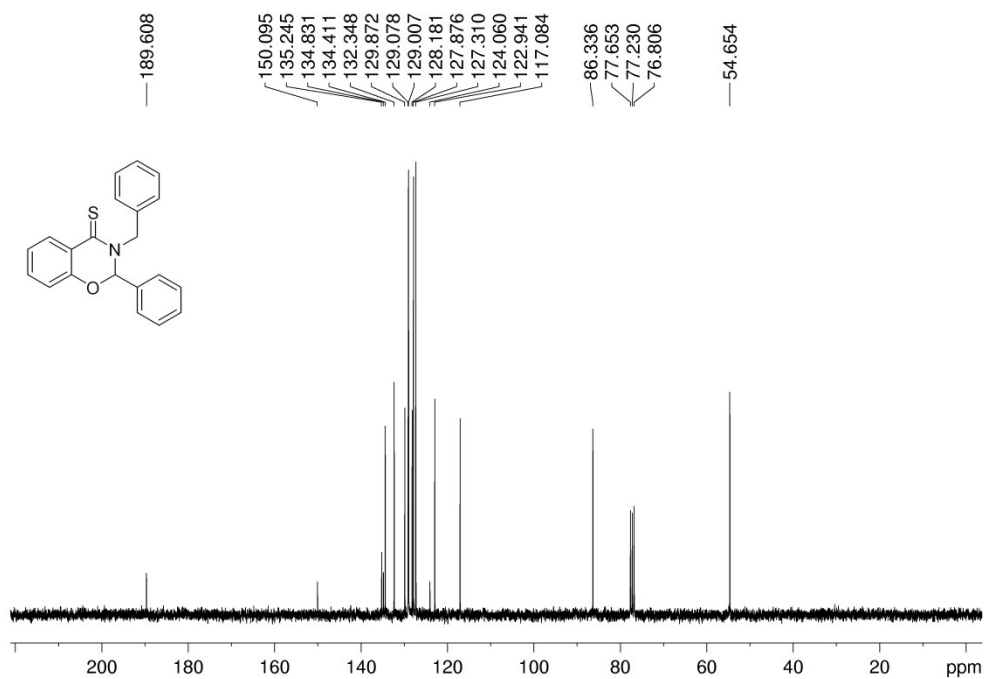




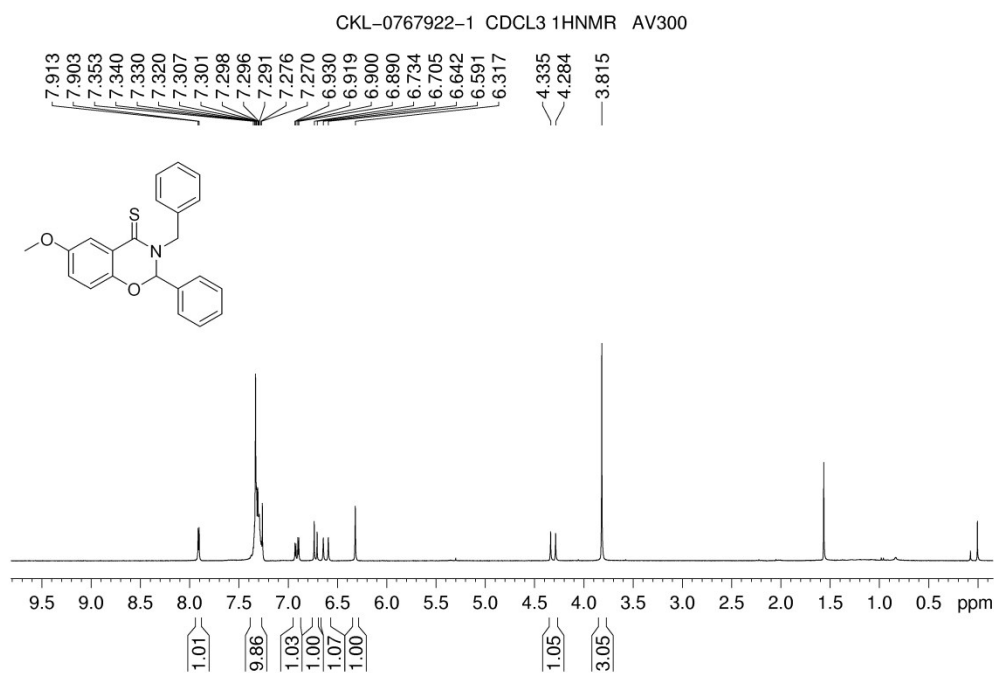


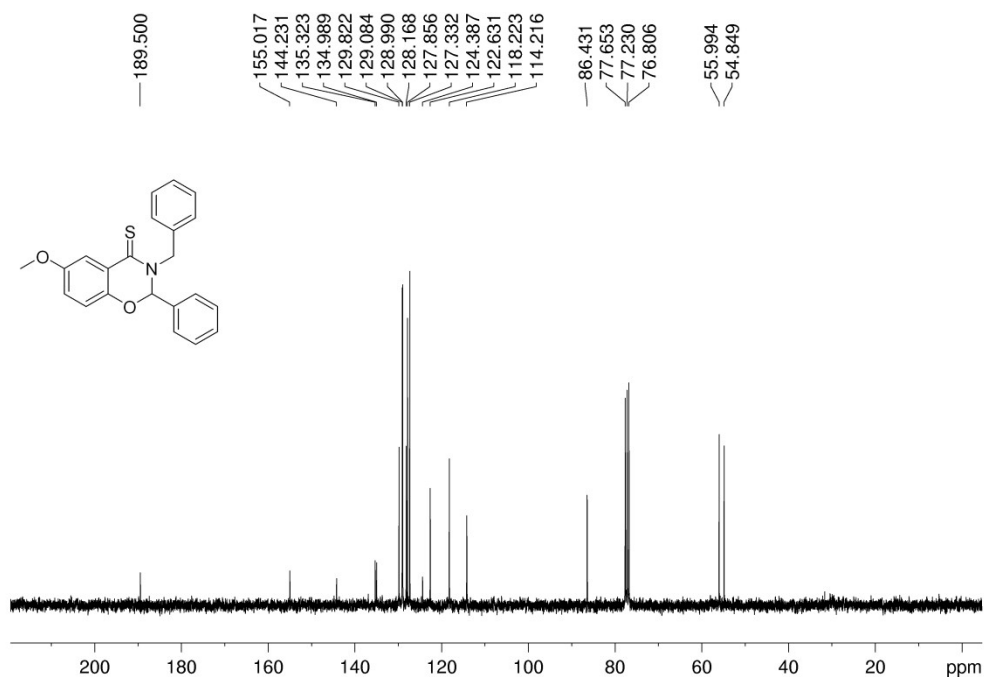
$^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ),  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of compound **2e'**



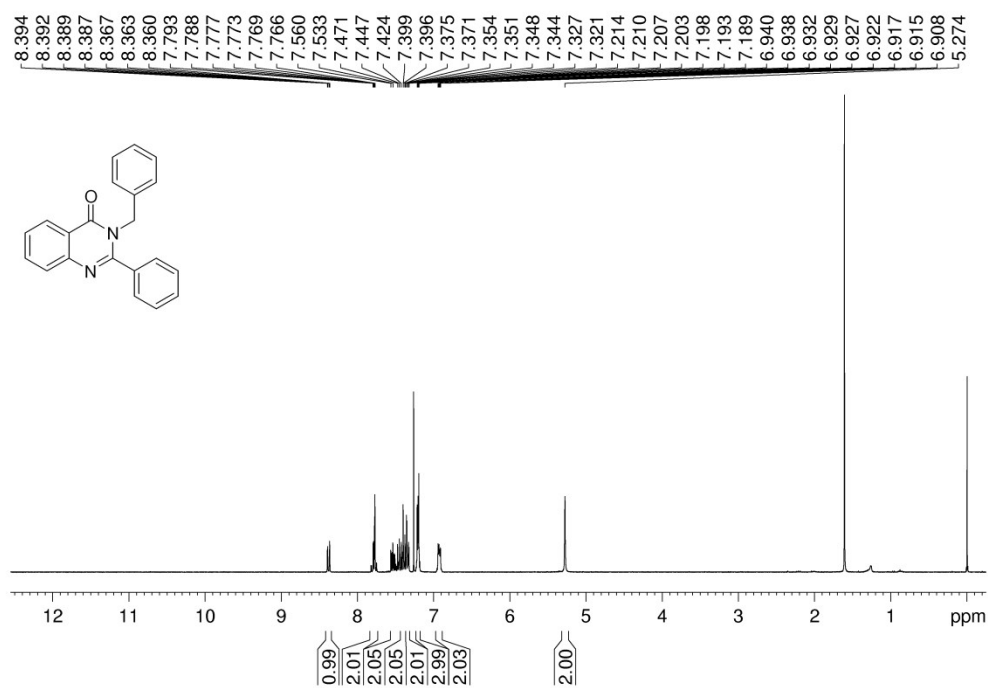


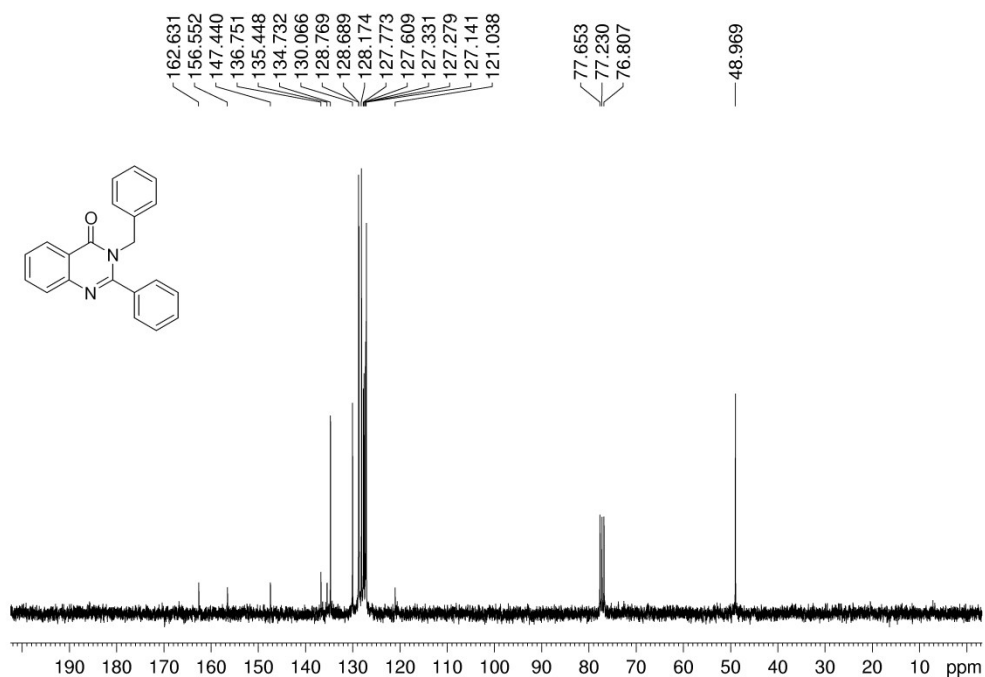
<sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>), <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **2f**



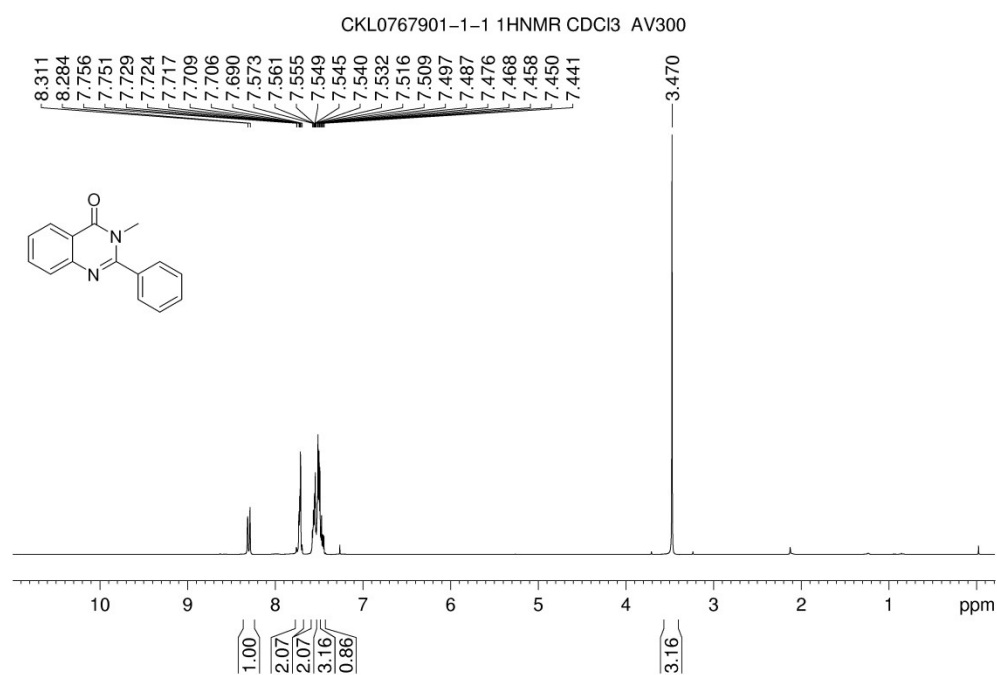


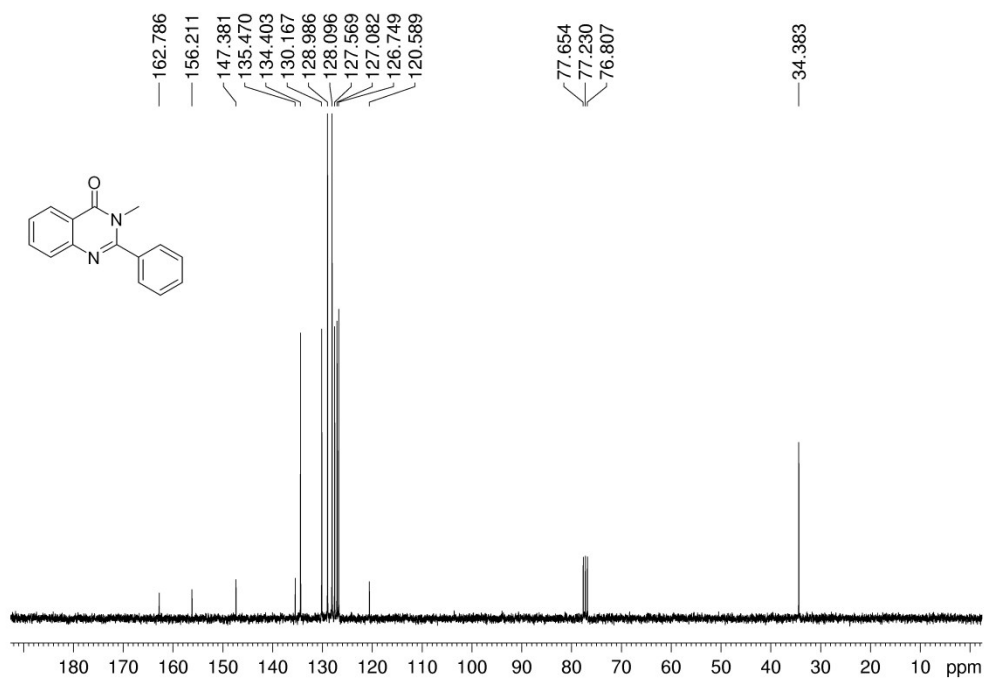
$^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ),  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of compound **4a**



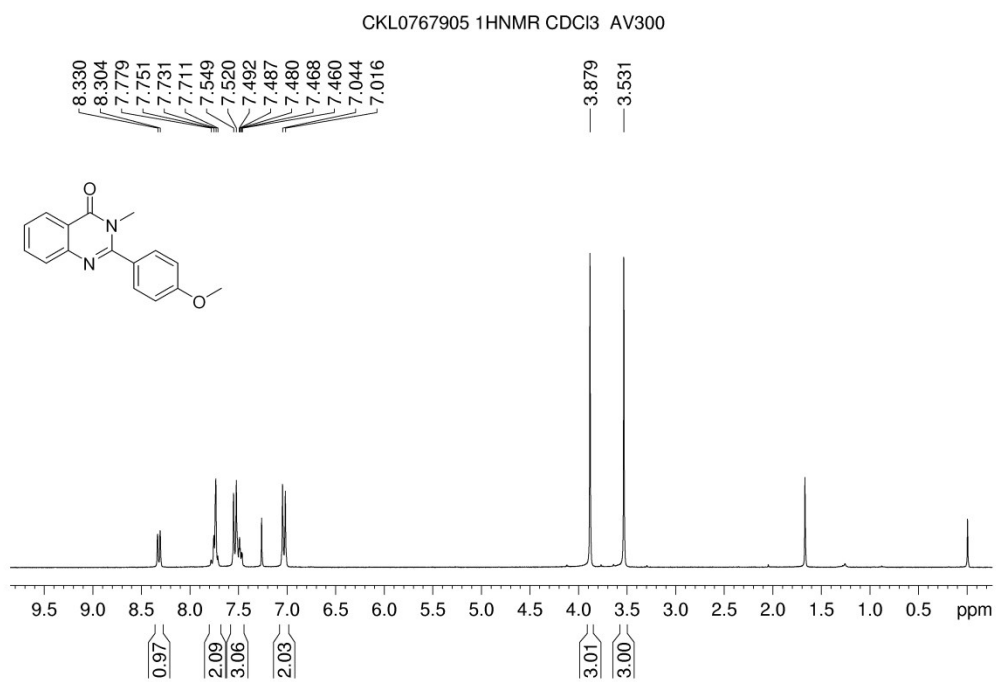


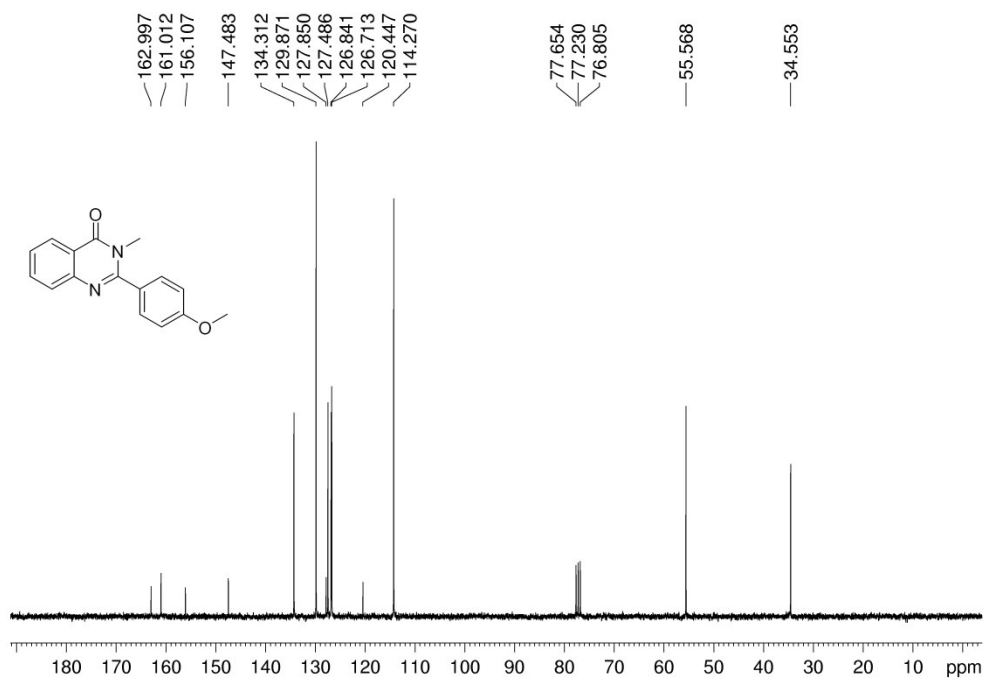
$^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ),  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of compound **4b**



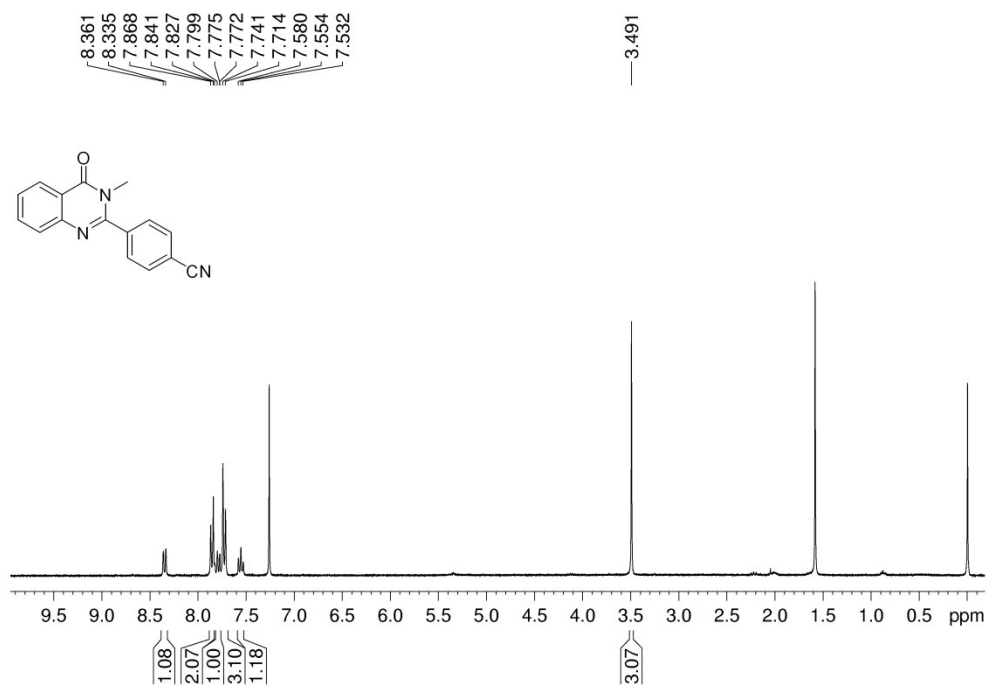


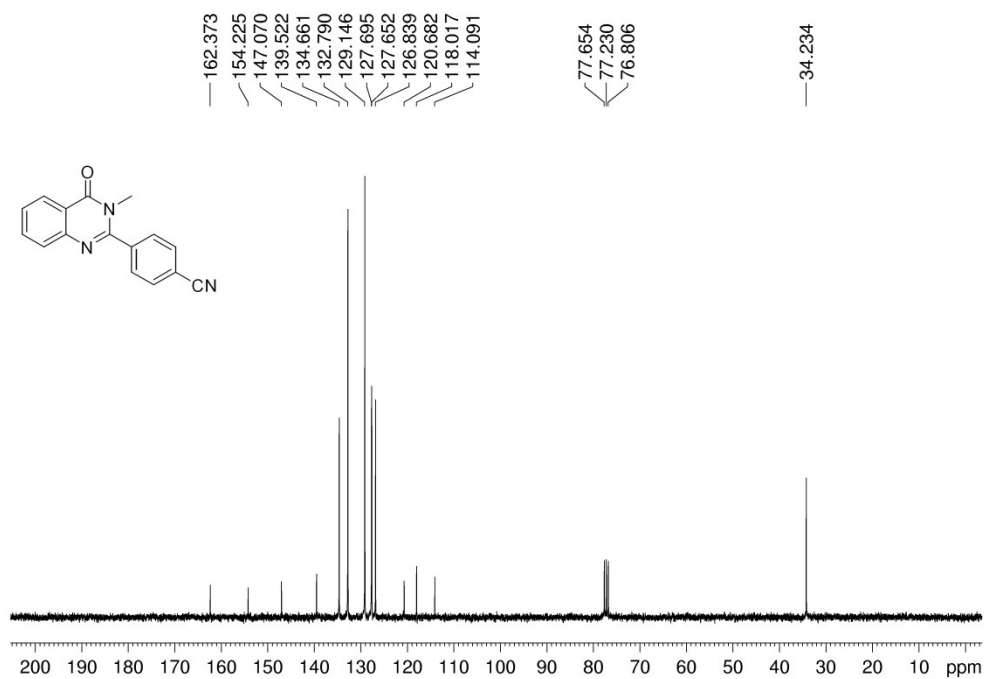
<sup>1</sup>H NMR (300 MHz, CDCl<sub>3</sub>), <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of compound **4c**





$^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ),  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of compound **4d**





$^1\text{H}$  NMR (300 MHz,  $\text{CDCl}_3$ ),  $^{13}\text{C}$  NMR (75 MHz,  $\text{CDCl}_3$ ) of compound **4e**

