

**Supporting Material**  
**A new route towards dithienoquinazoline and**  
**benzo[f]thieno[3,2- h]quinazoline systems using Pd-catalyzed**  
**intramolecular cyclization under microwave irradiation**

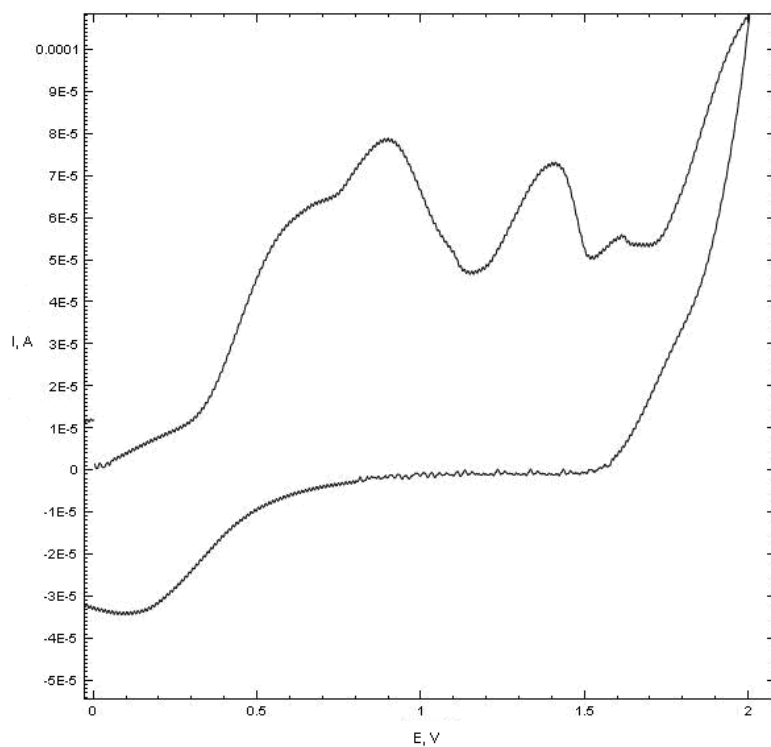
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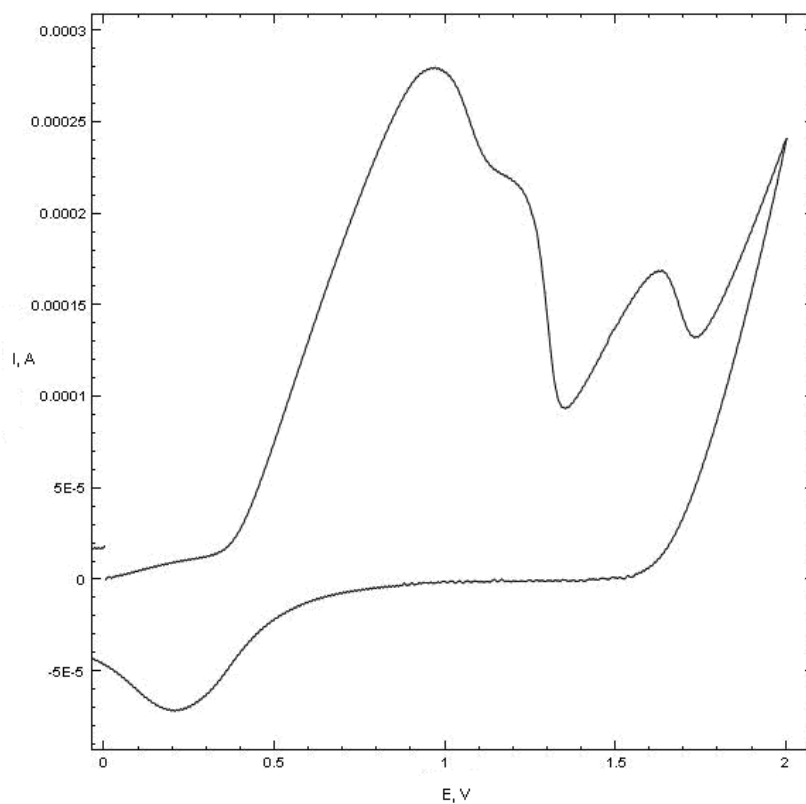
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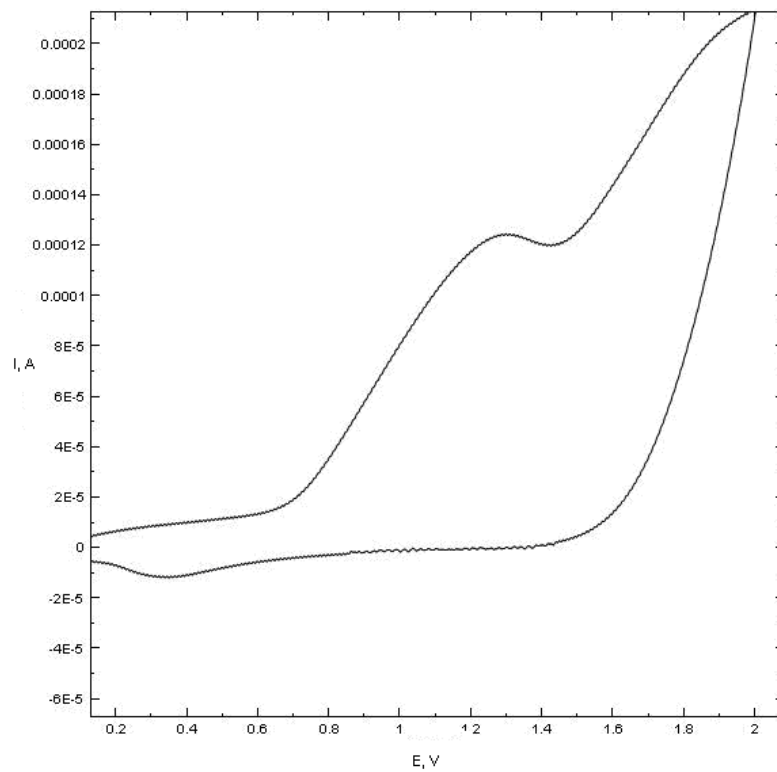
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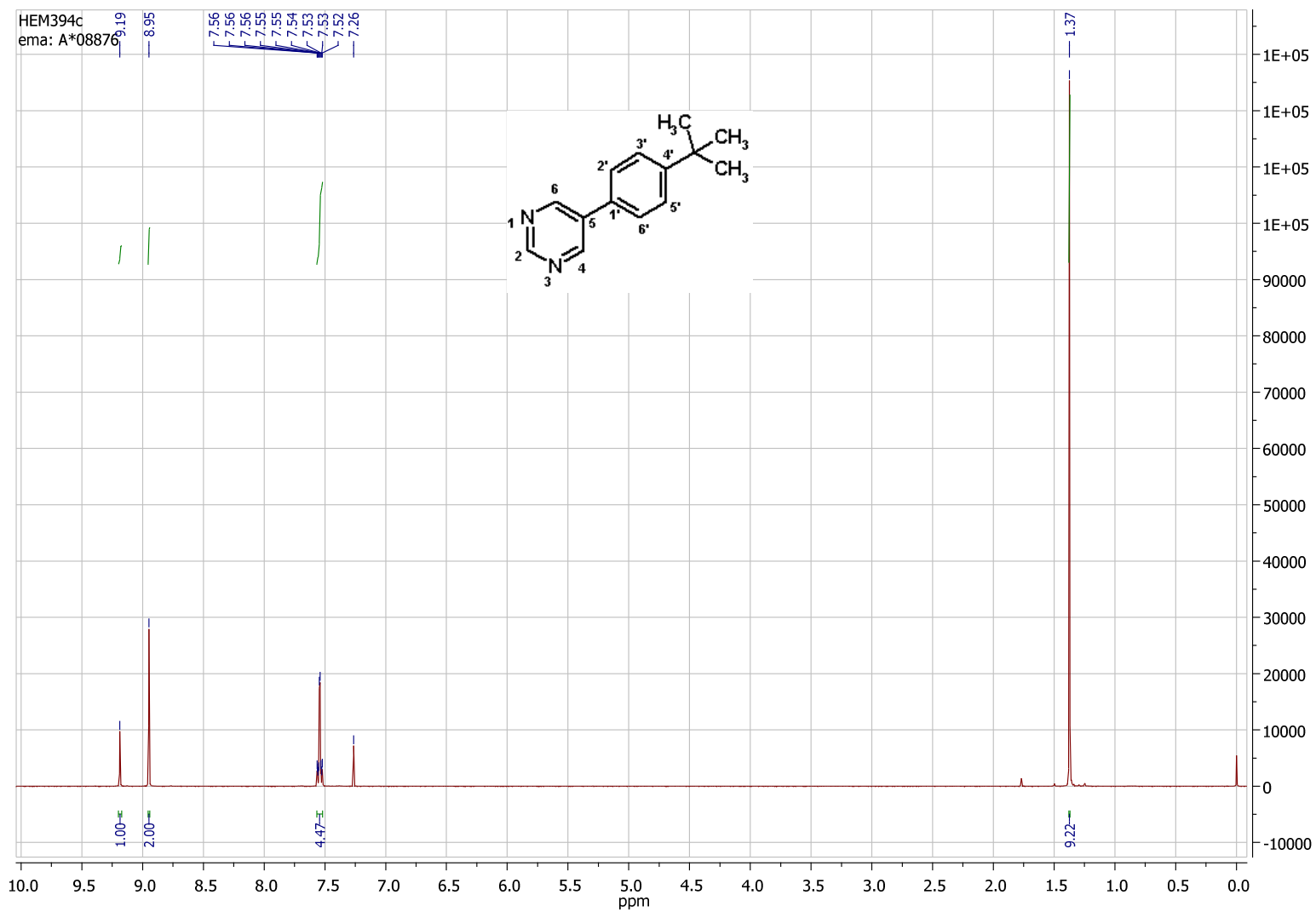
**Figure S1.** Cyclic voltammogram of **6a** measured in anhydrous dichloromethane with  $\text{Bu}_4\text{NClO}_4$  at 100 mV/s (Ag/AgCl reference electrode).



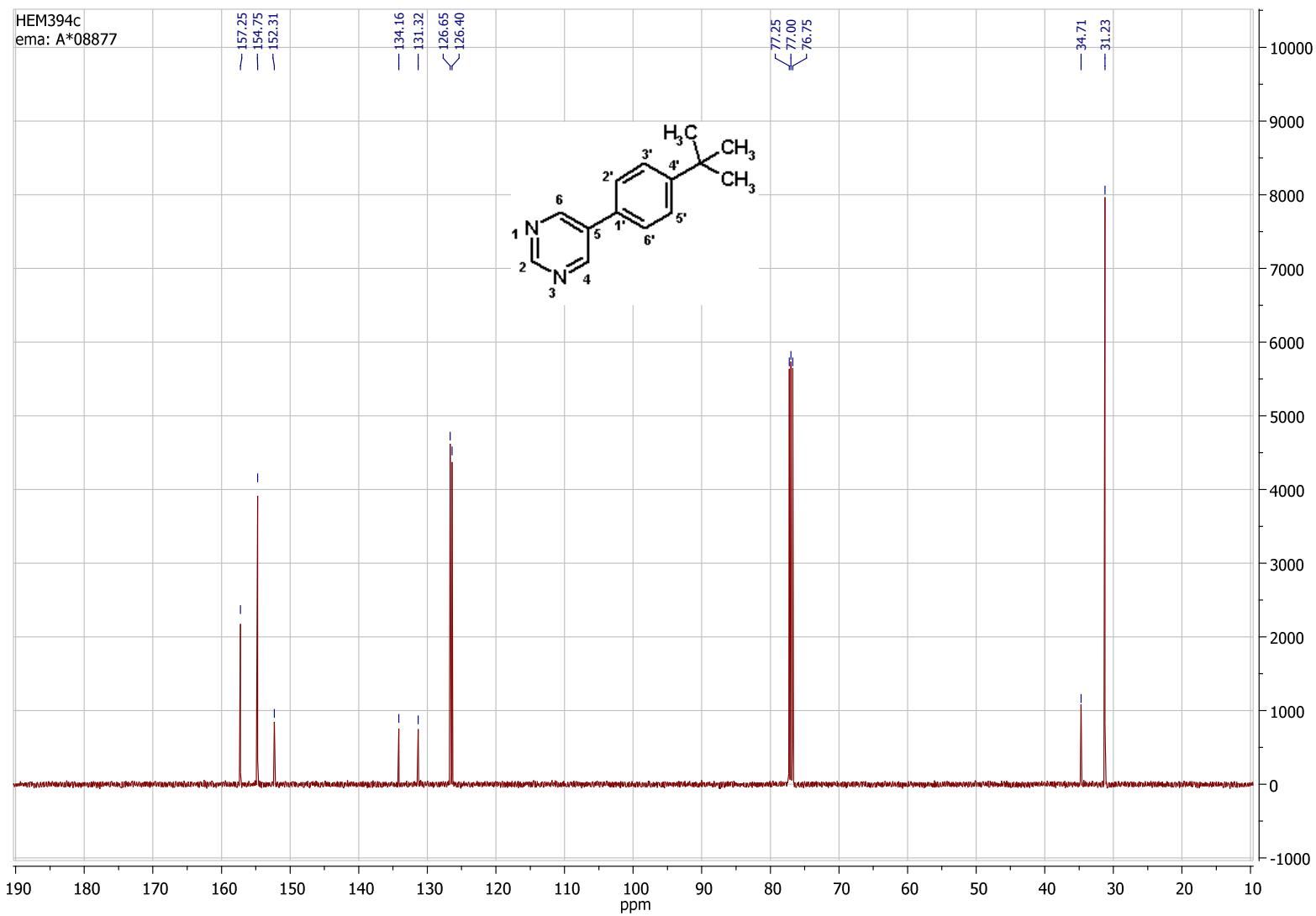
**Figure S2.** Cyclic voltammogram of **6b** measured in anhydrous dichloromethane with  $\text{Bu}_4\text{NClO}_4$  at 100 mV/s (Ag/AgCl reference electrode).



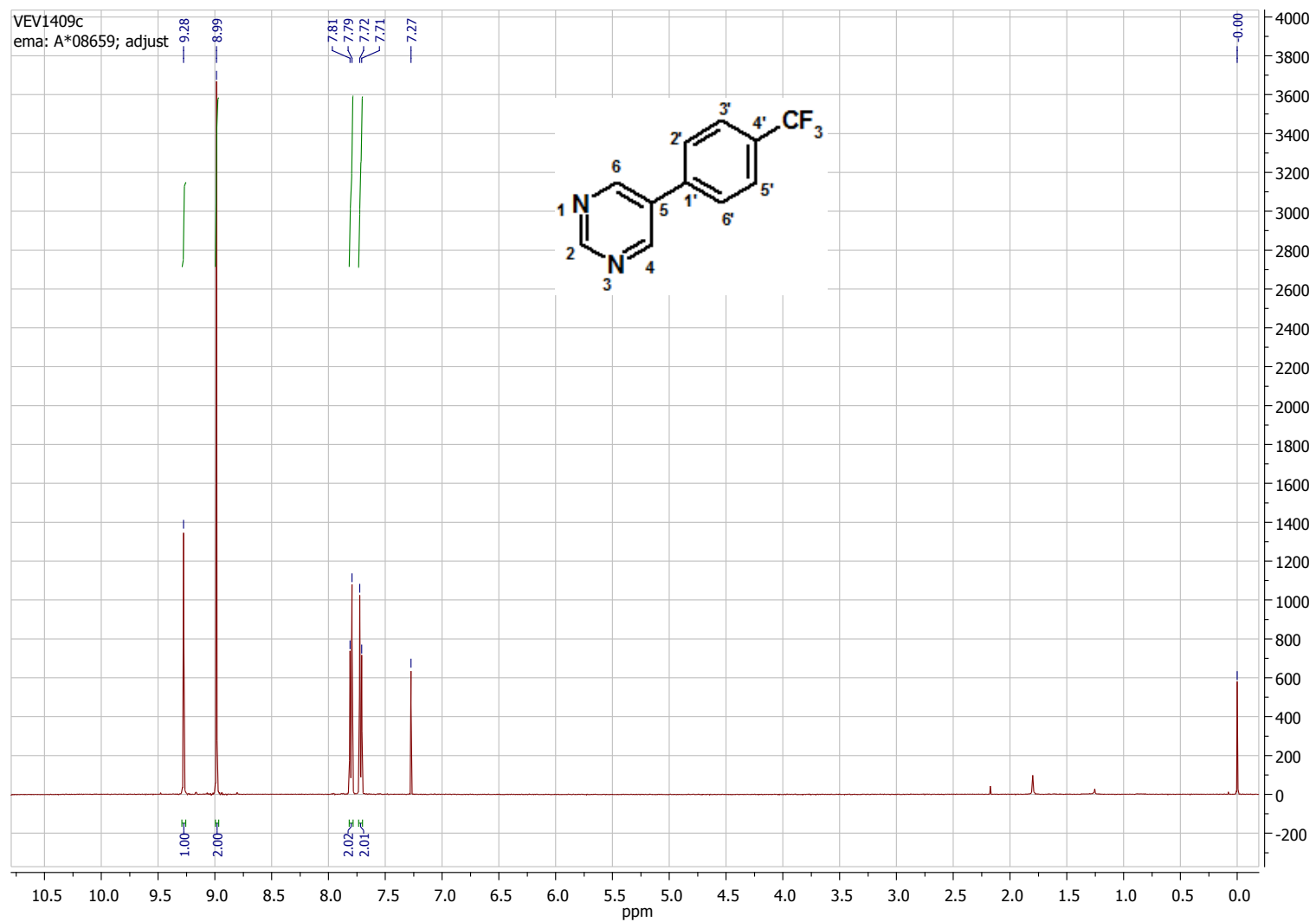
**Figure S3.** Cyclic voltammogram of **6c** measured in anhydrous dichloromethane with  $\text{Bu}_4\text{NClO}_4$  at 100 mV/s (Ag/AgCl reference electrode).



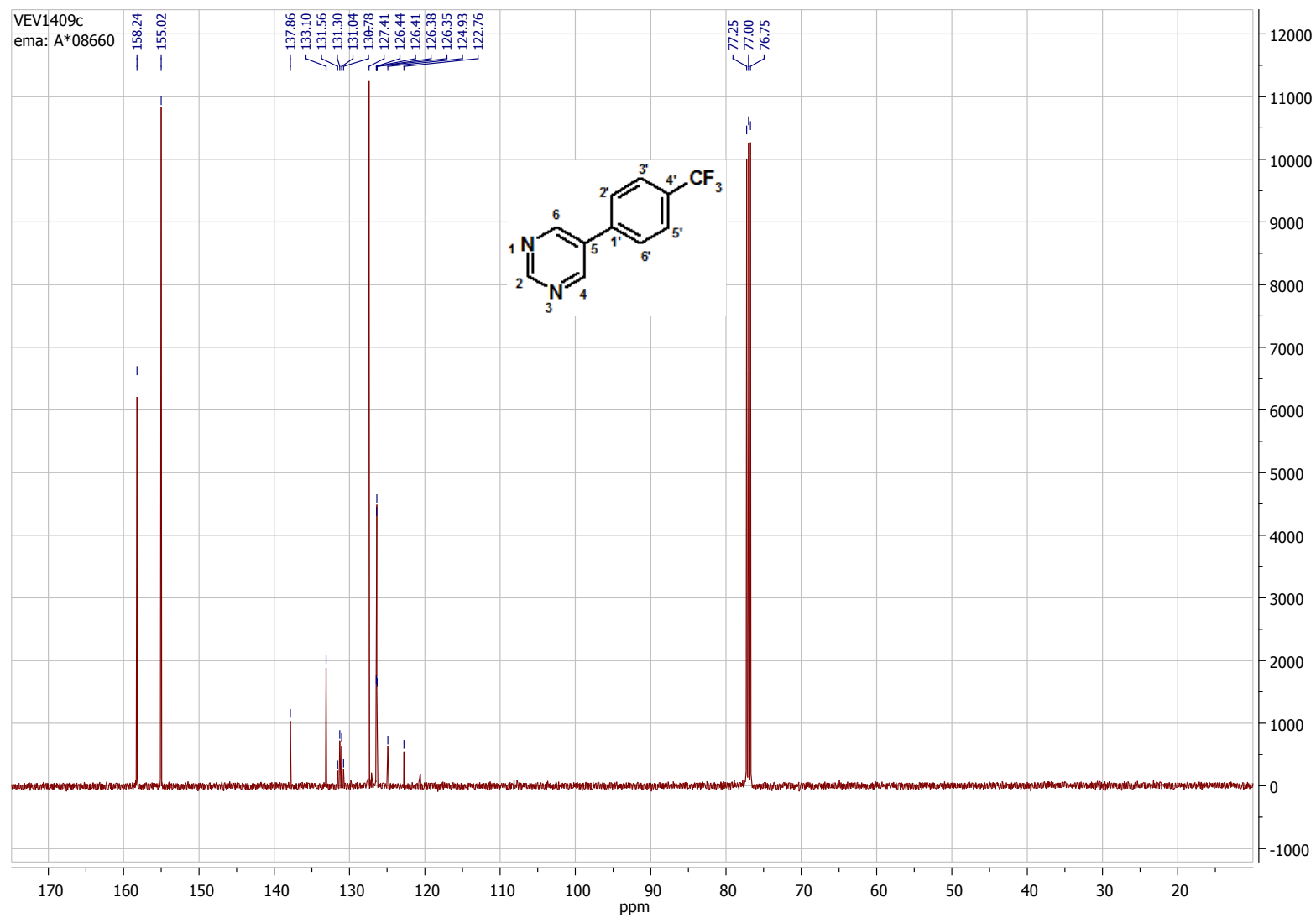
$^1\text{H}$  NMR (500 MHz,  $\text{CDCl}_3$ ) spectrum of **3b**.



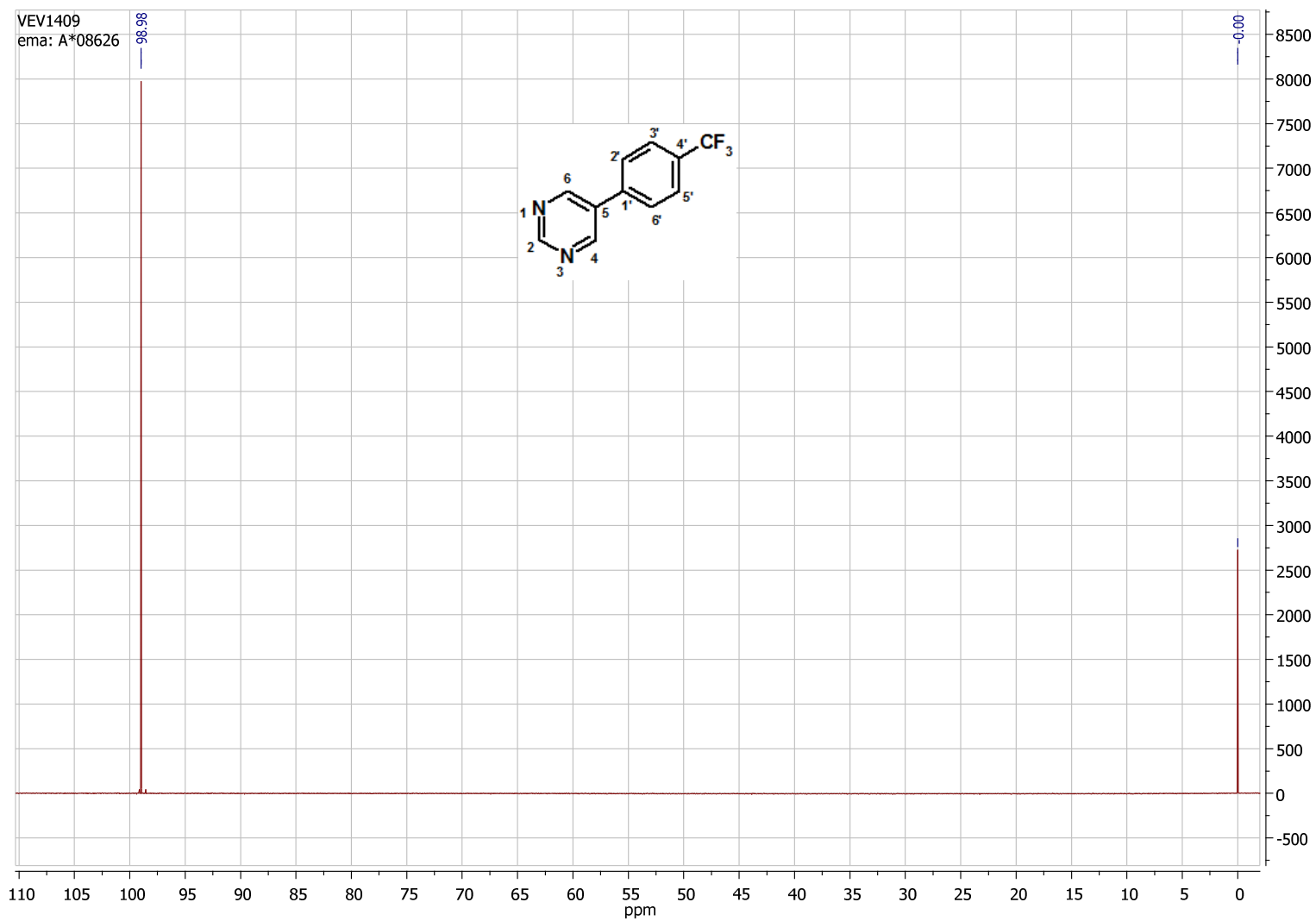
$^{13}\text{C}$  NMR (126 MHz,  $\text{CDCl}_3$ ) spectrum of **3b**.



<sup>1</sup>H NMR (500 MHz, CDCl<sub>3</sub>) spectrum of **3c**.

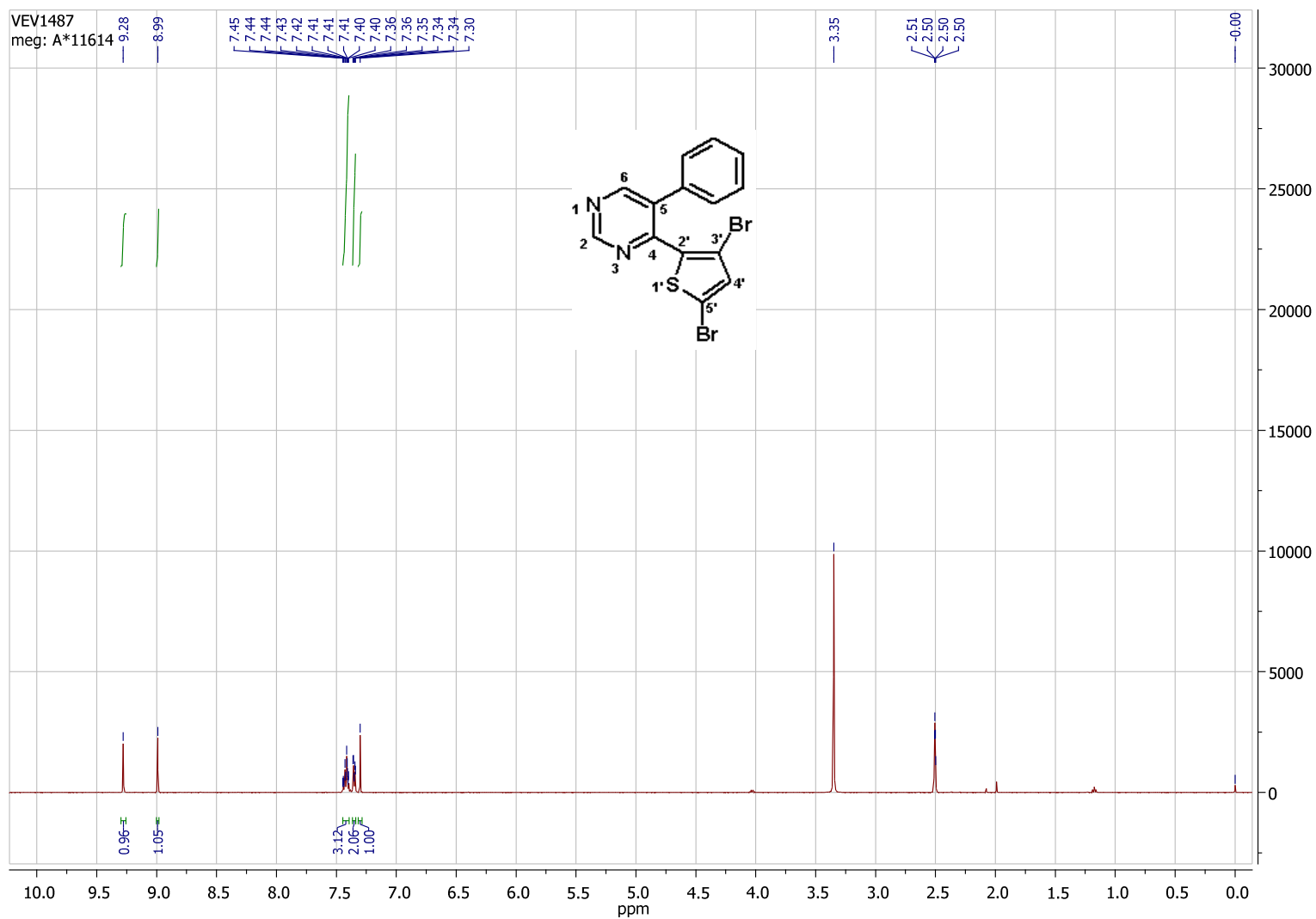


$^{13}\text{C}$  NMR (126 MHz,  $\text{CDCl}_3$ ) spectrum of **3c**.

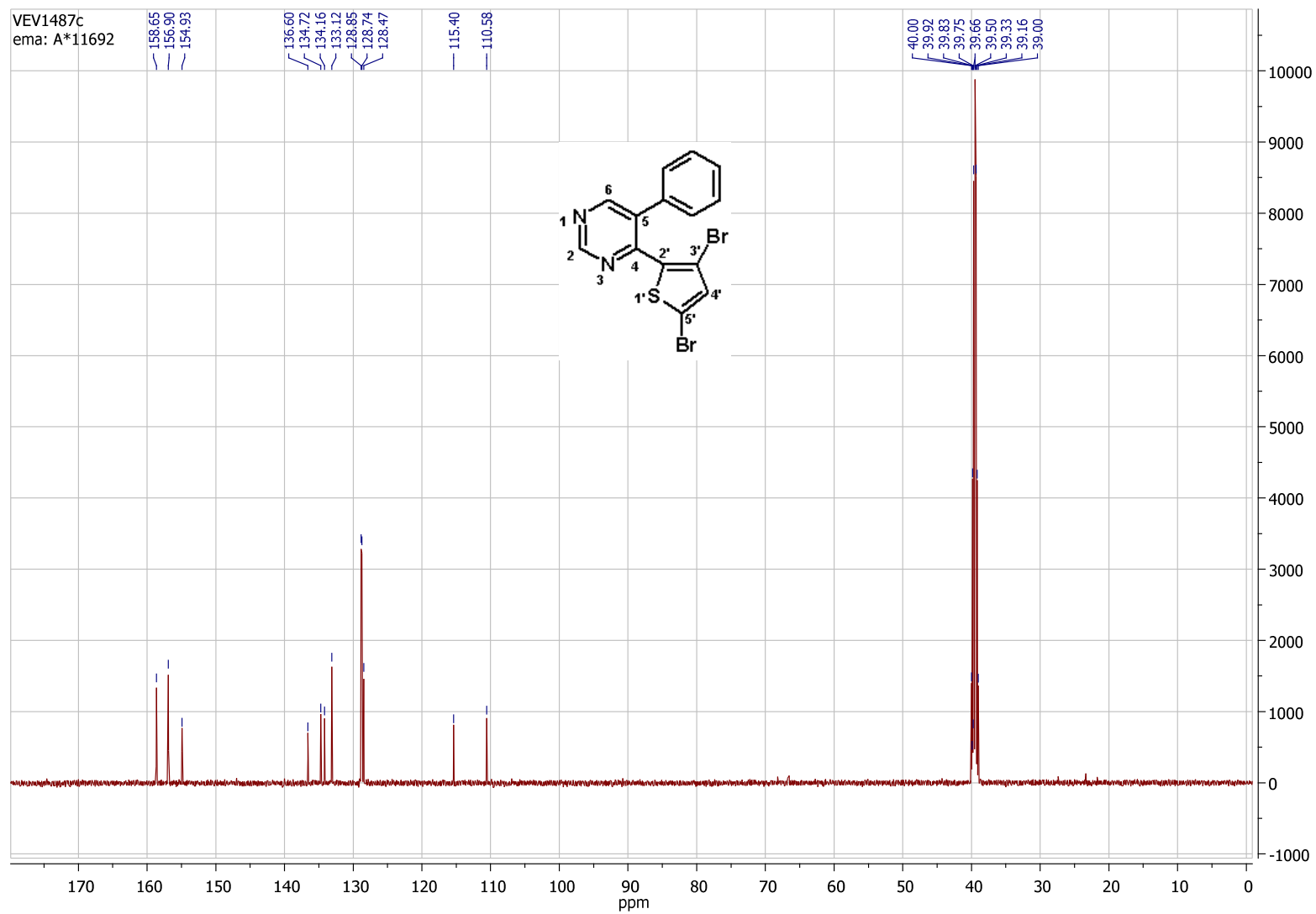


<sup>19</sup>F NMR (470.5 MHz, CDCl<sub>3</sub>) spectrum of **3c**.

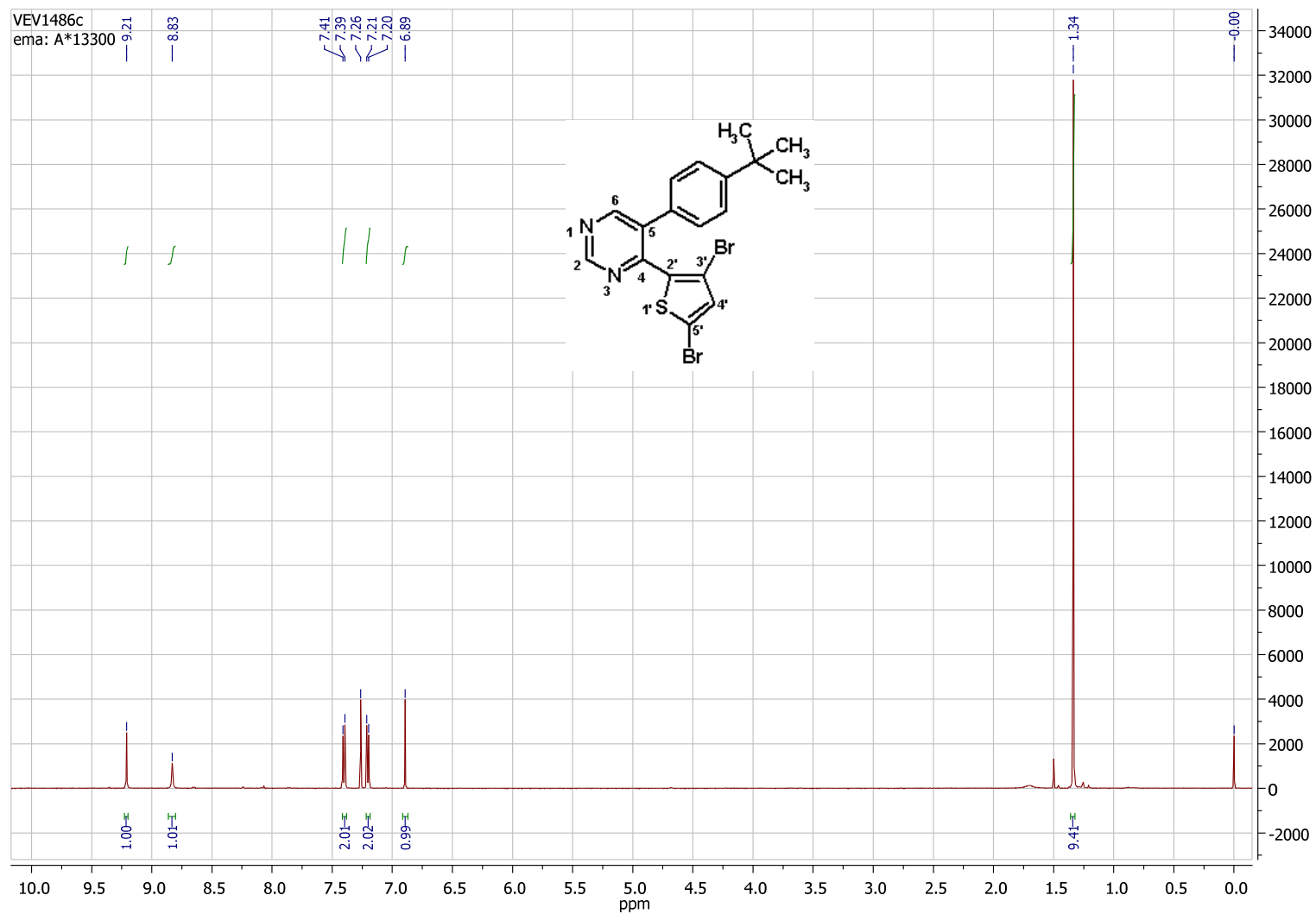




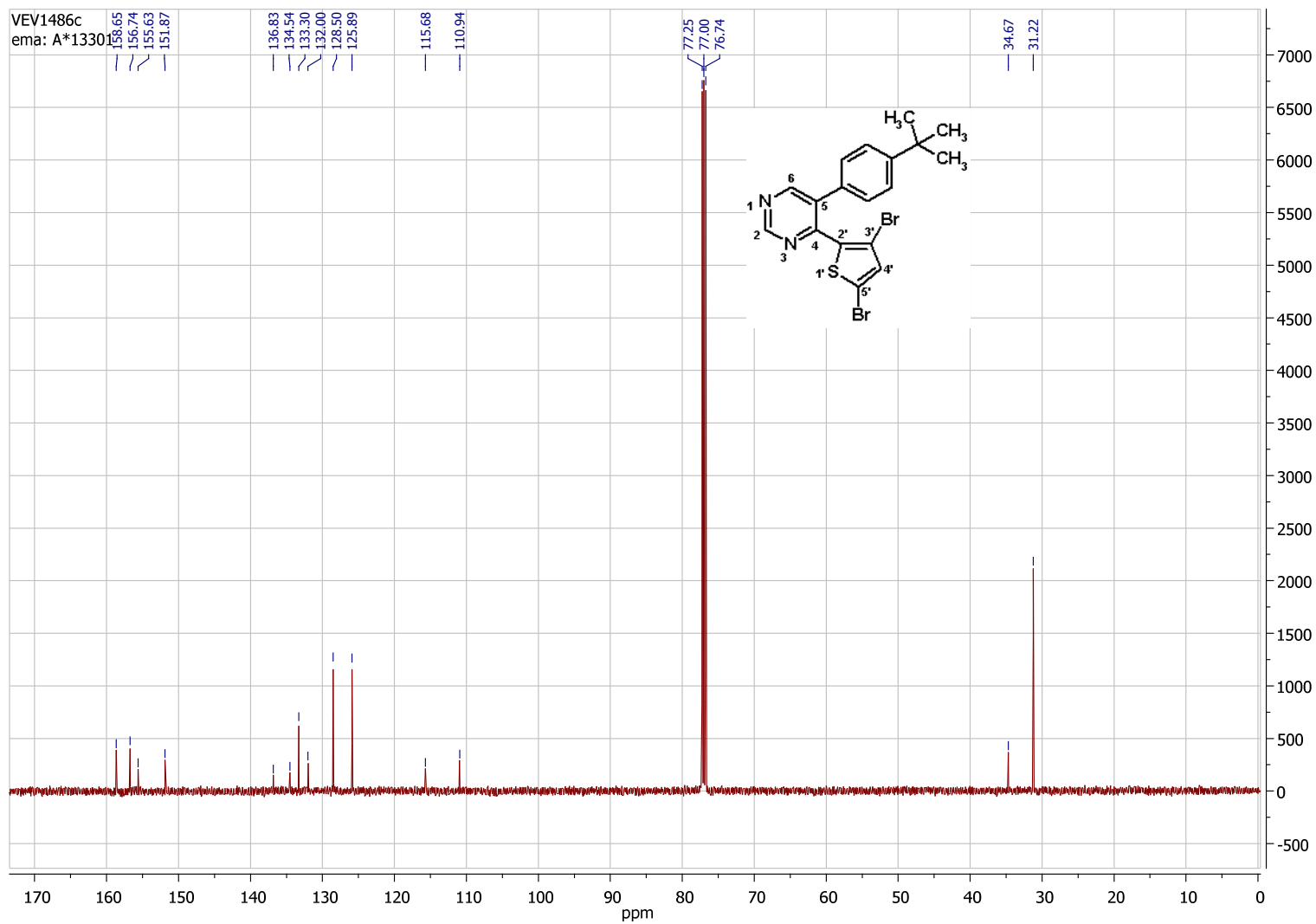
$^1\text{H}$  NMR (500 MHz,  $\text{DMSO}-d_6$ ) spectrum of **5a**.



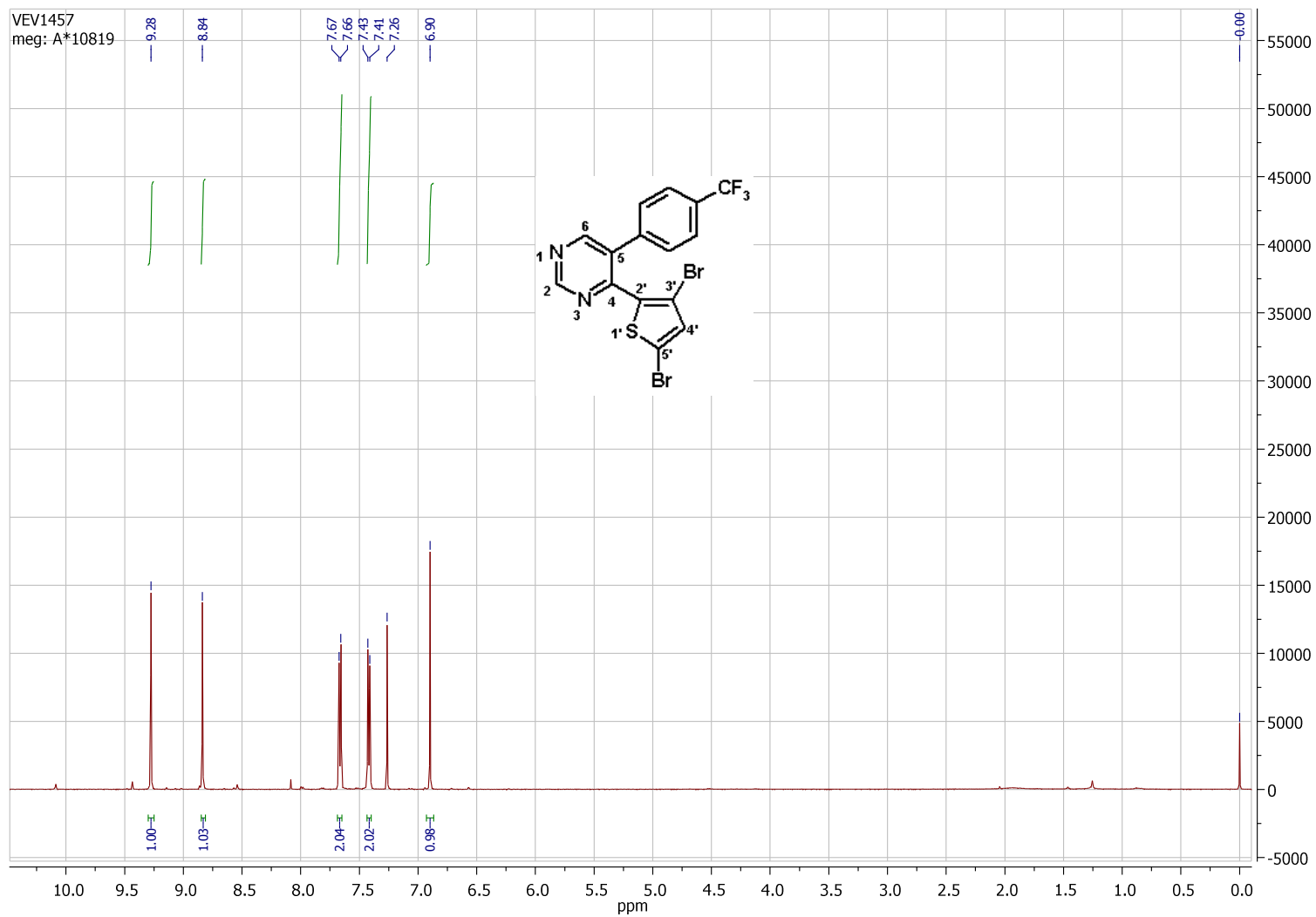
$^{13}\text{C}$  NMR (126 MHz,  $\text{DMSO}-d_6$ ) spectrum of **5a**.



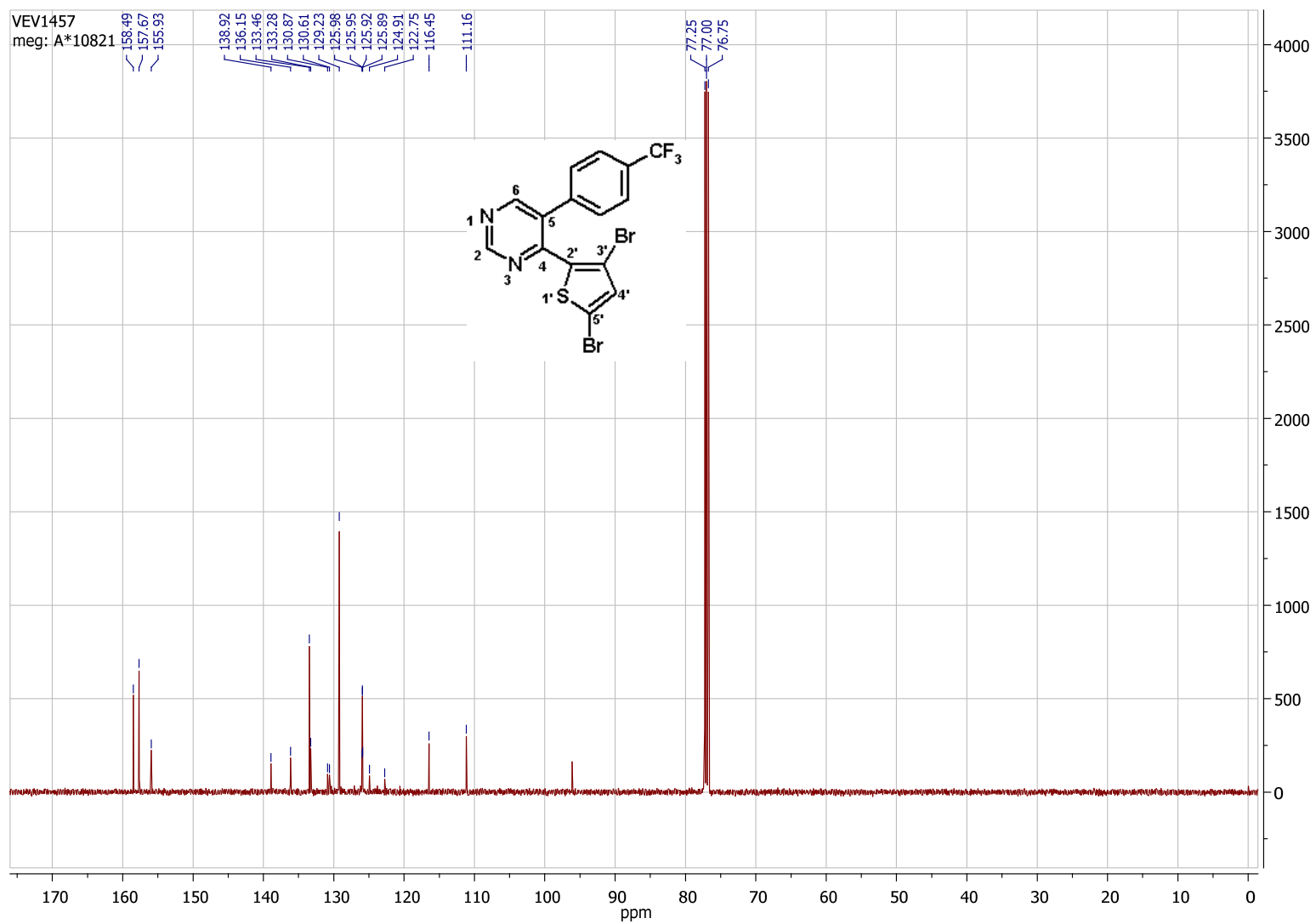
$^1\text{H}$  NMR (500 MHz,  $\text{CDCl}_3$ ) spectrum of **5b**.



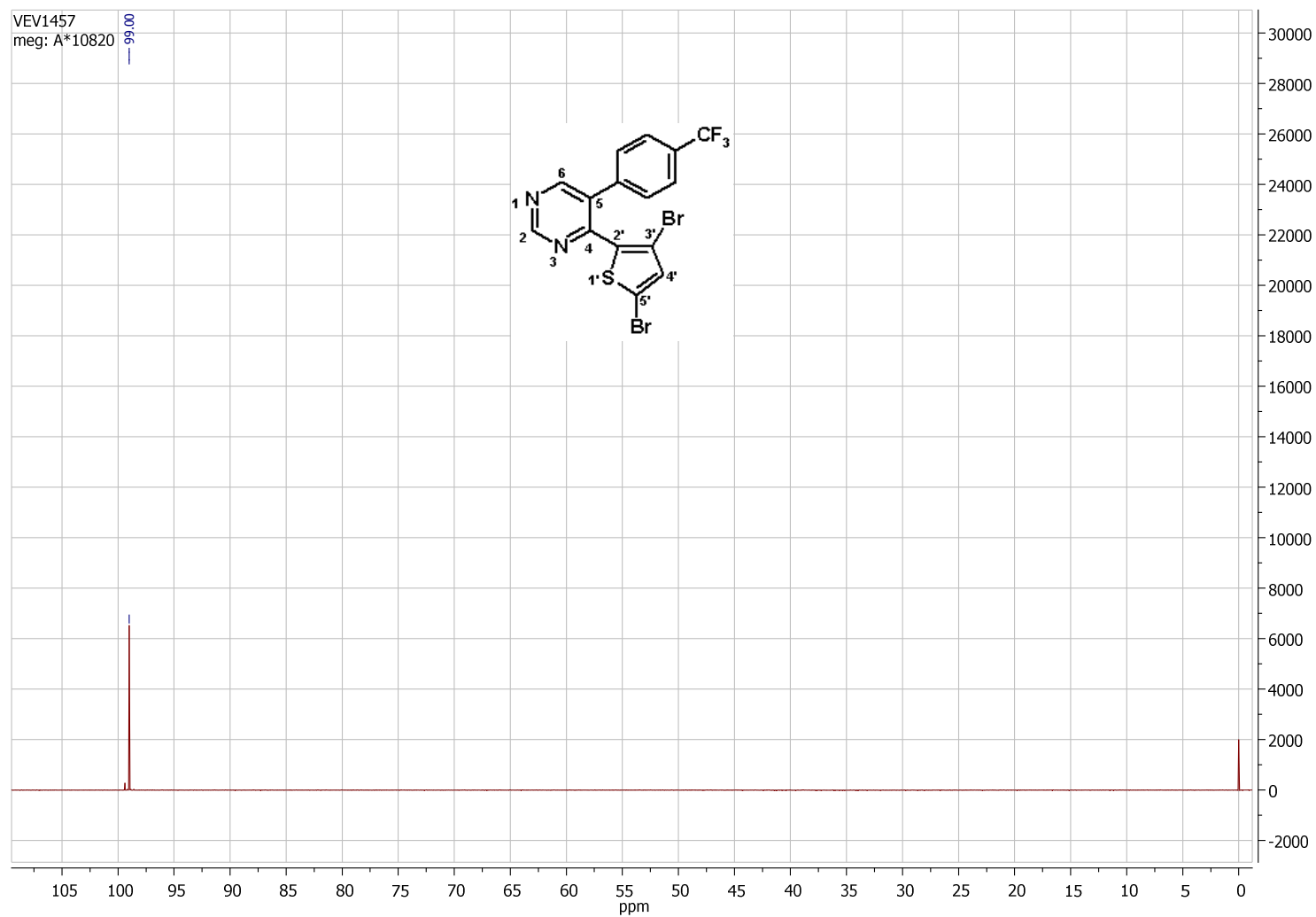
$^{13}\text{C}$  NMR (126 MHz,  $\text{CDCl}_3$ ) spectrum of **5b**.



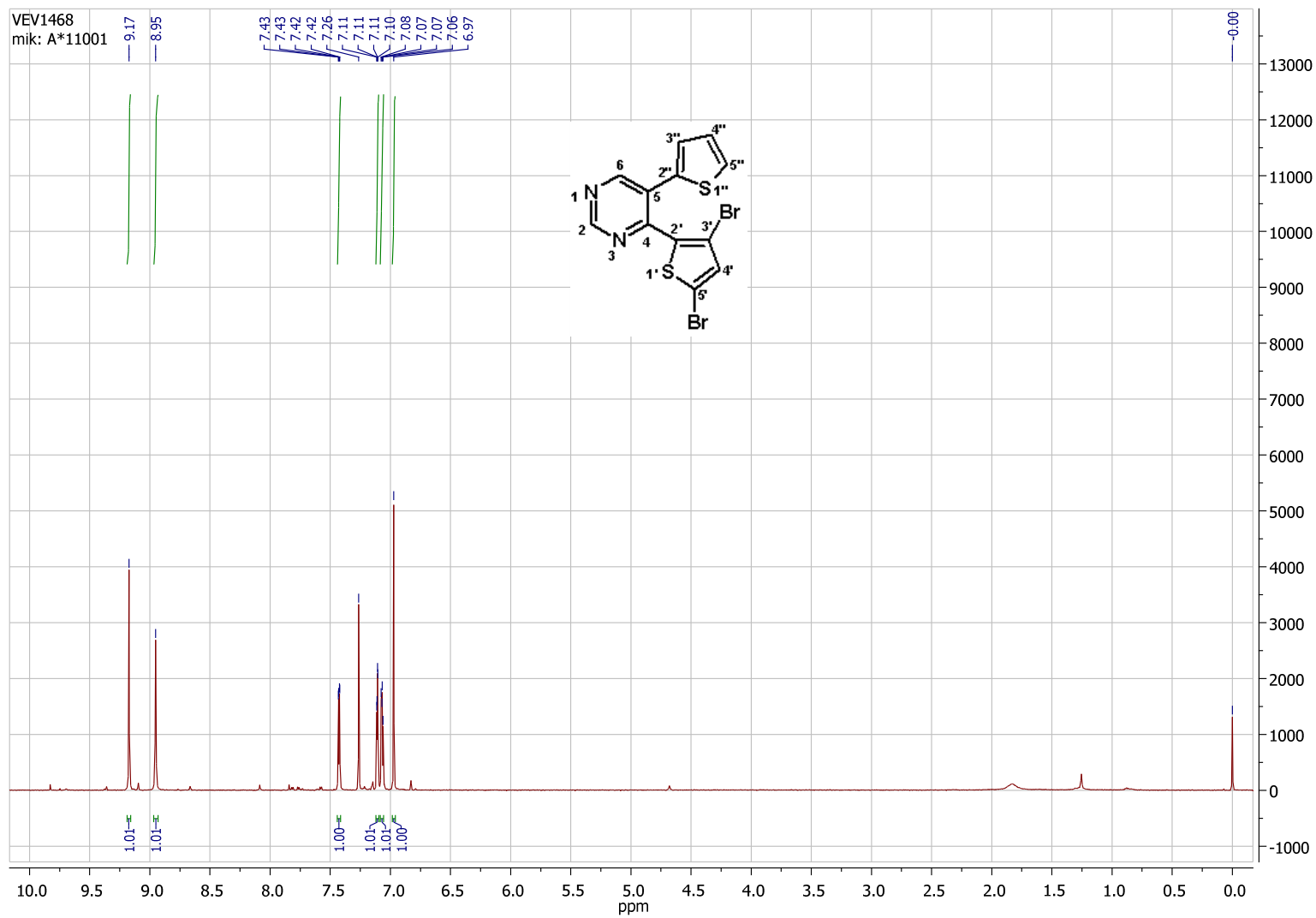
<sup>1</sup>H NMR (500 MHz, CDCl<sub>3</sub>) spectrum of **5c**.



<sup>13</sup>C NMR (126 MHz, CDCl<sub>3</sub>) spectrum of **5c**.

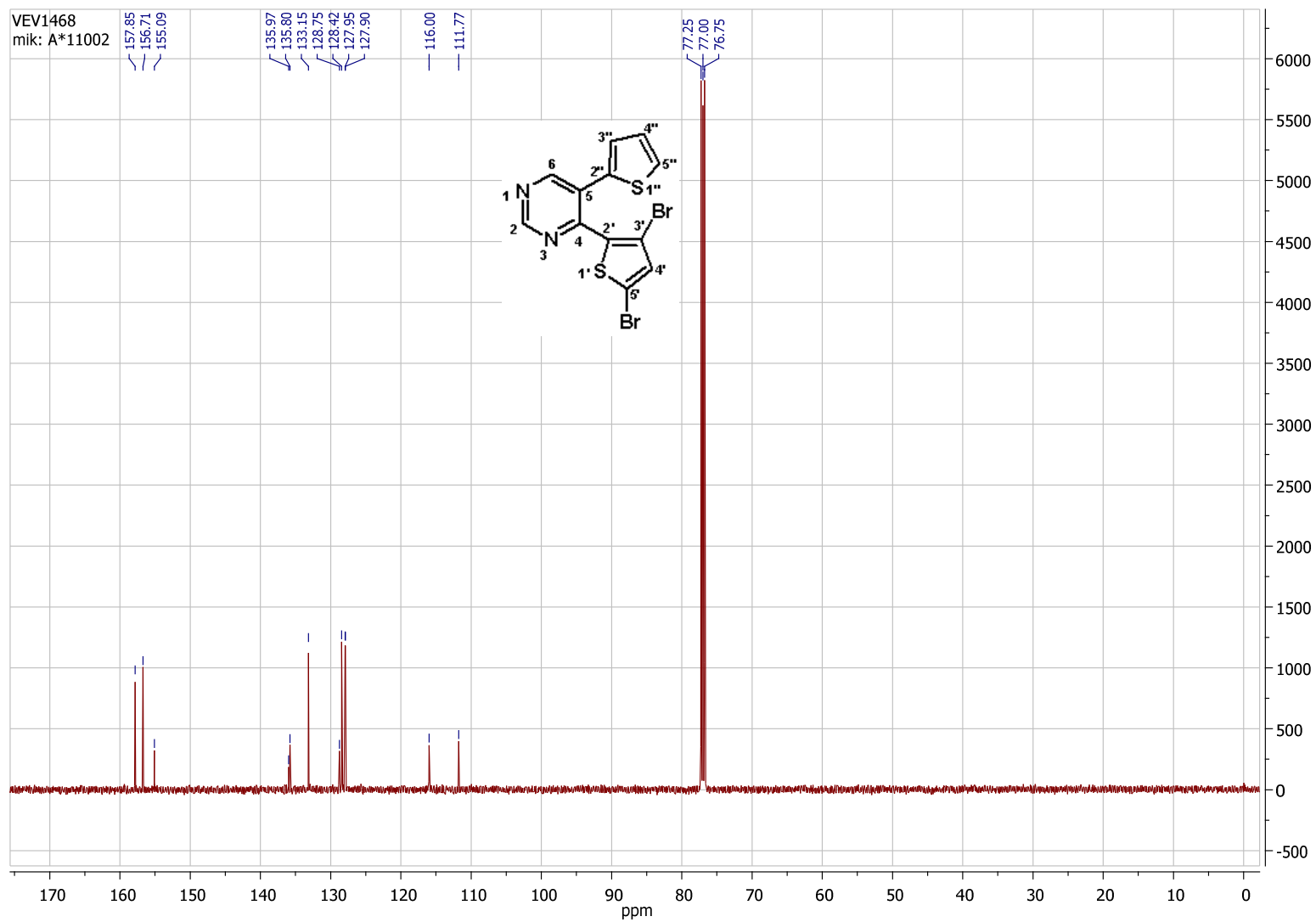


$^{19}\text{F}$  NMR (470.5 MHz,  $\text{CDCl}_3$ ) spectrum of **5c**.

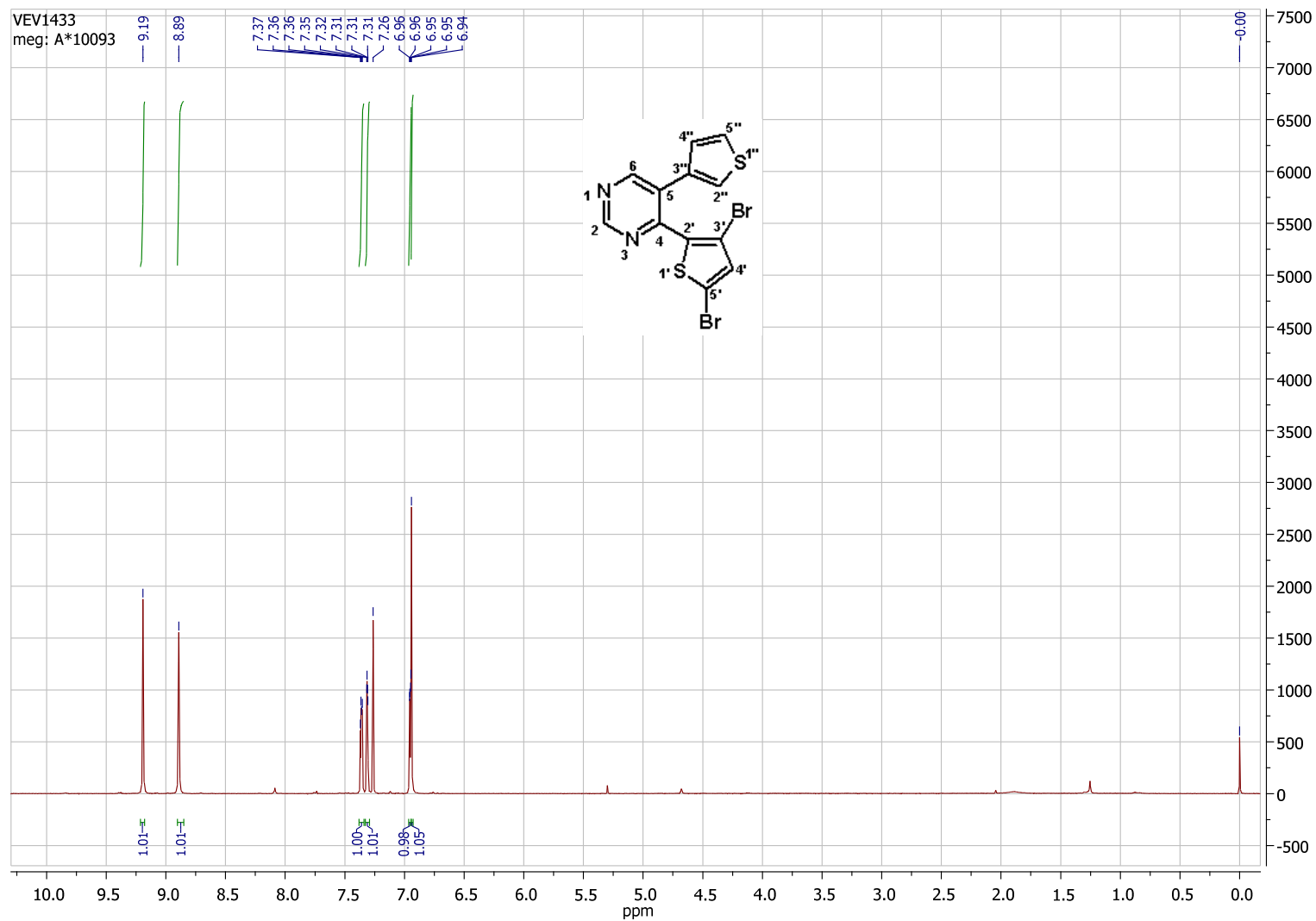


$^1\text{H}$  NMR (500 MHz,  $\text{CDCl}_3$ ) spectrum of **5d**.

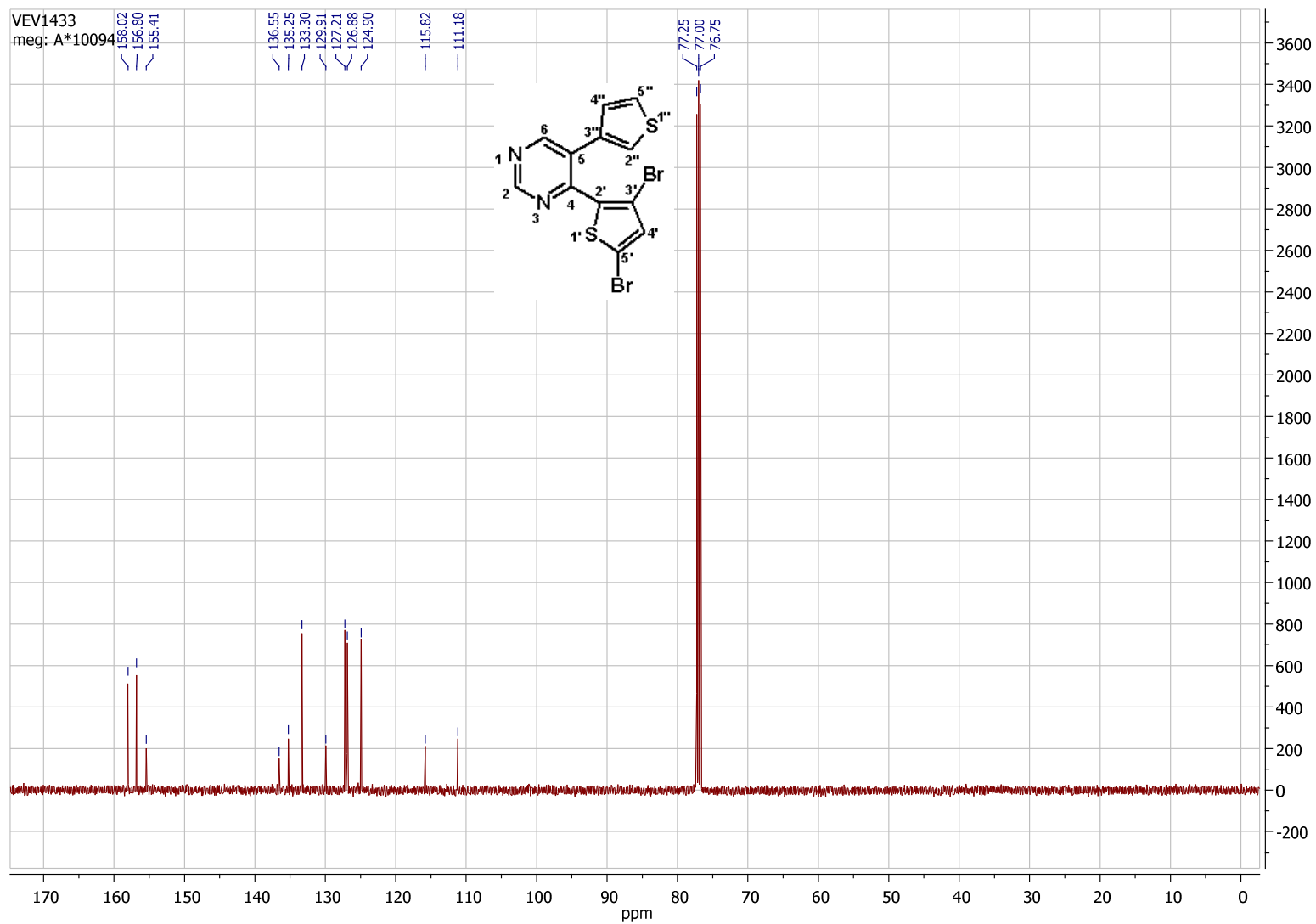




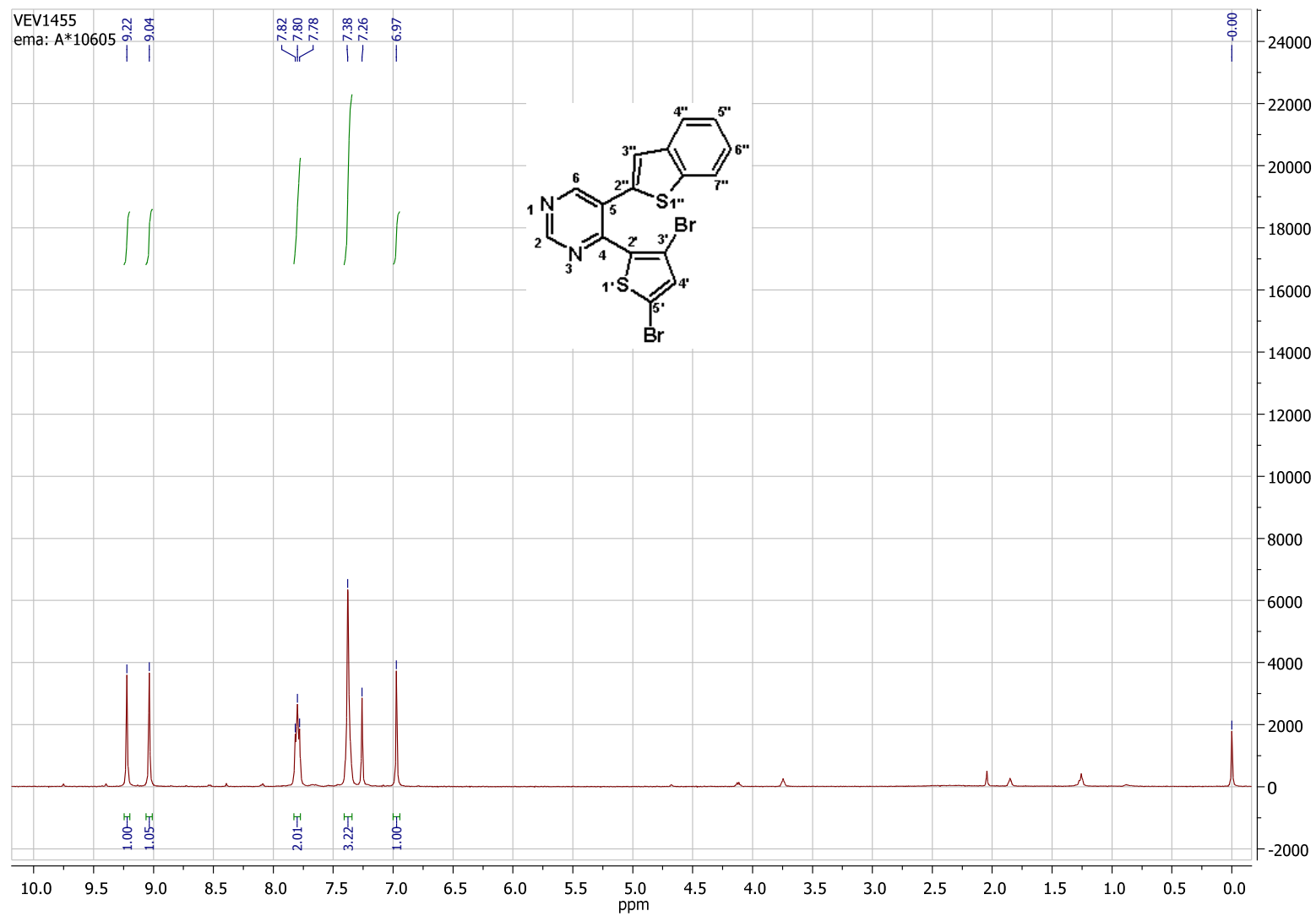
$^{13}\text{C}$  NMR (126 MHz,  $\text{CDCl}_3$ ) spectrum of **5d**.



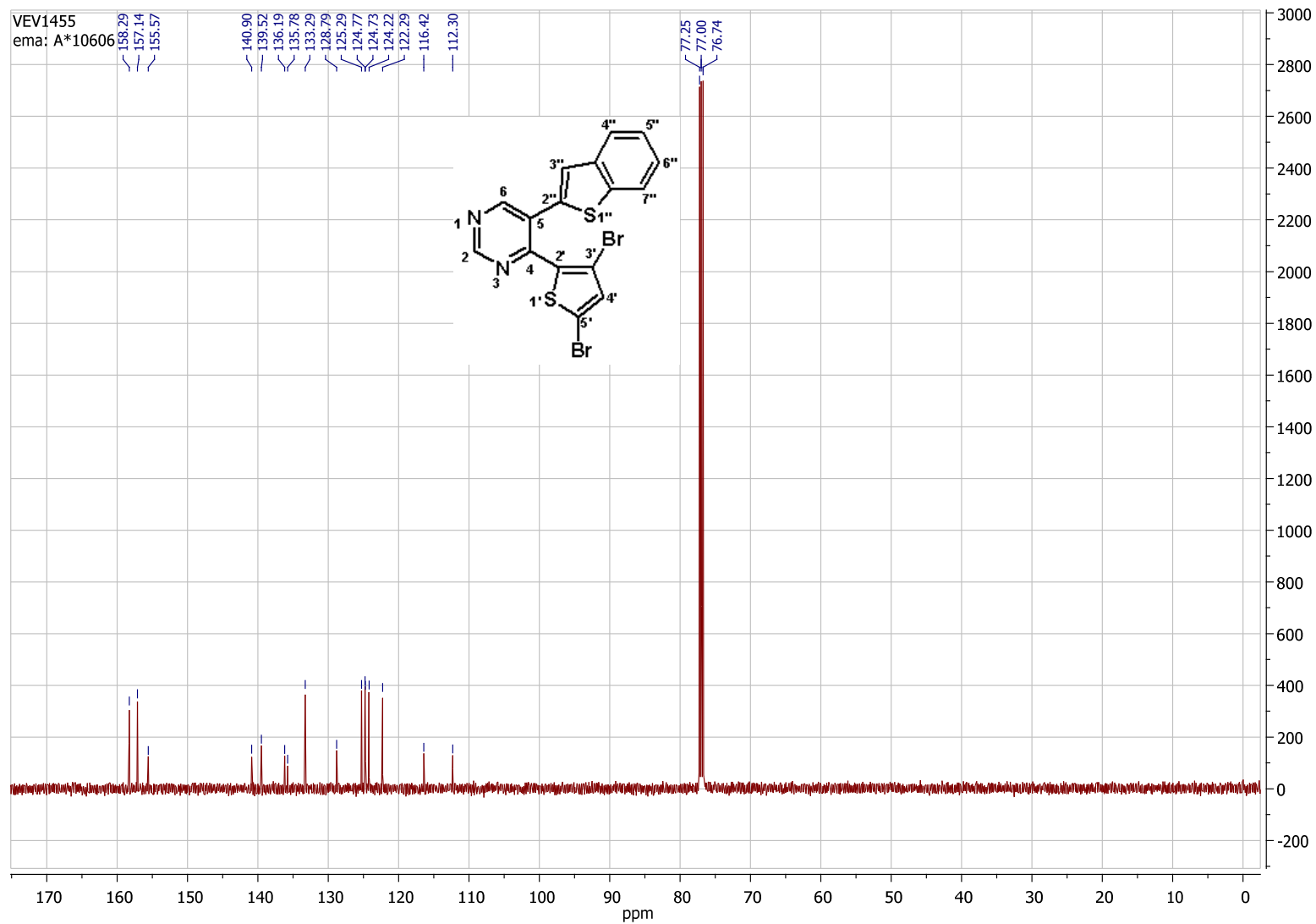
$^1\text{H}$  NMR (500 MHz,  $\text{CDCl}_3$ ) spectrum of **5e**.



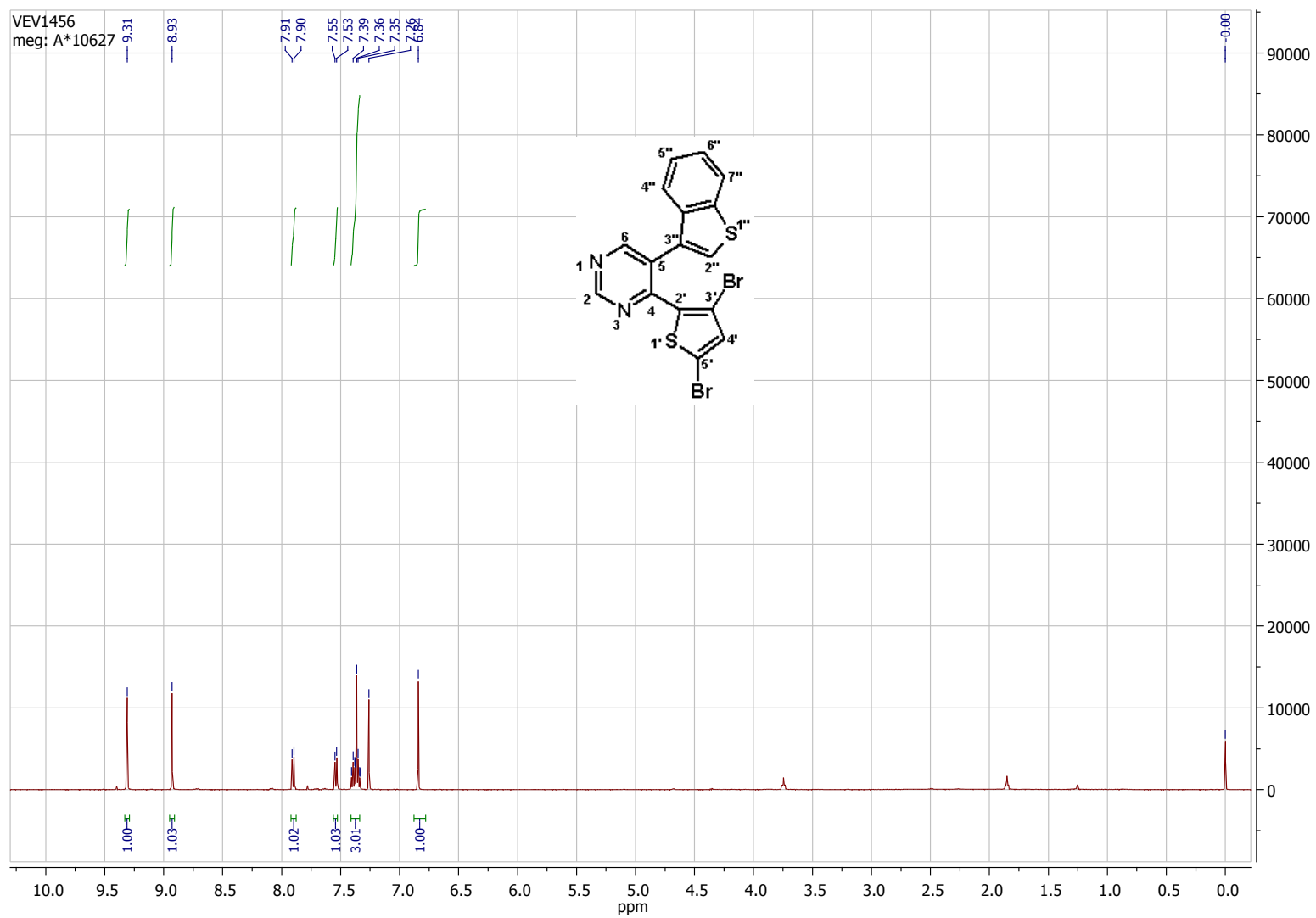
$^{13}\text{C}$  NMR (126 MHz,  $\text{CDCl}_3$ ) spectrum of **5e**.



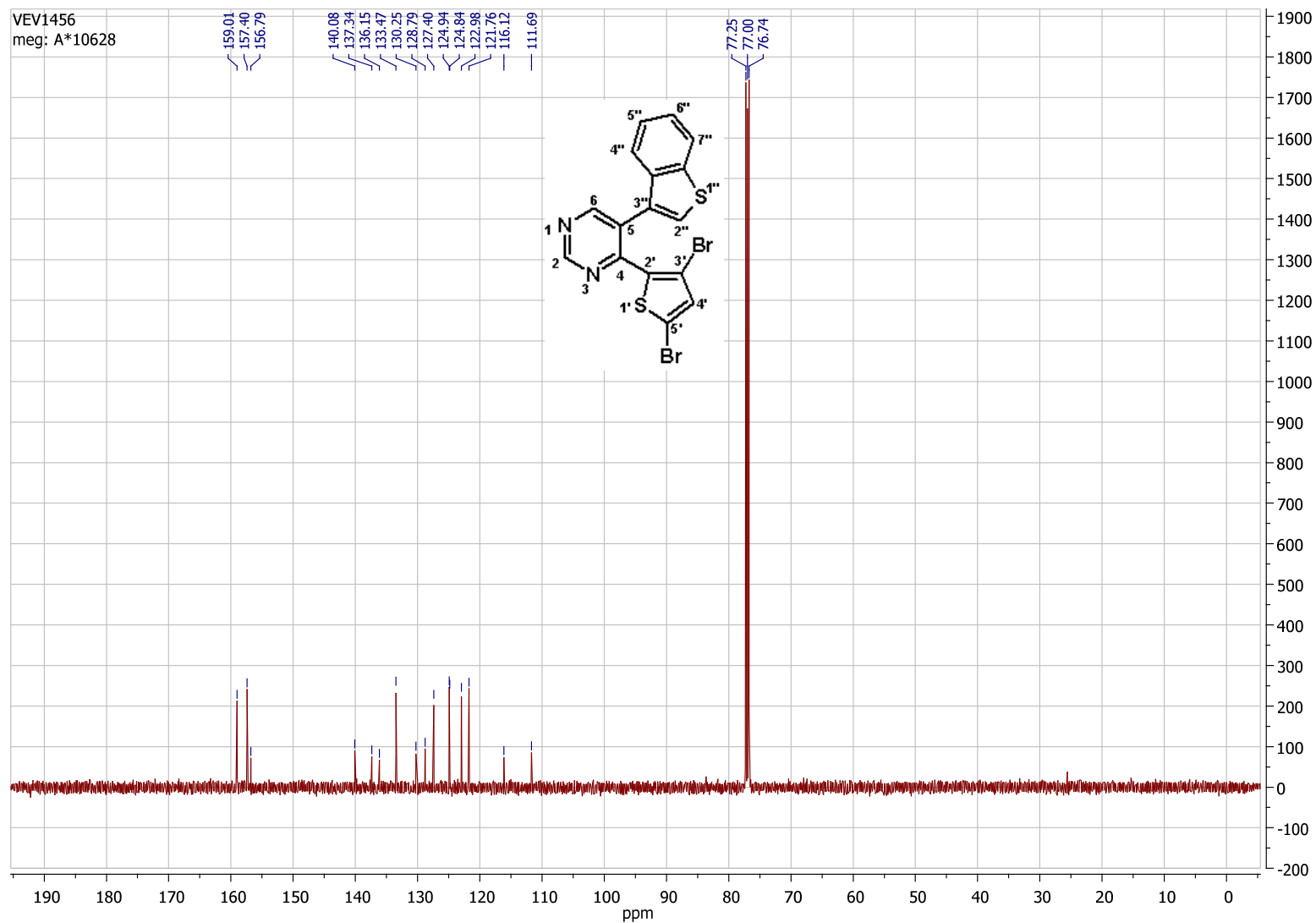
$^1\text{H}$  NMR (500 MHz,  $\text{CDCl}_3$ ) spectrum of **5f**.



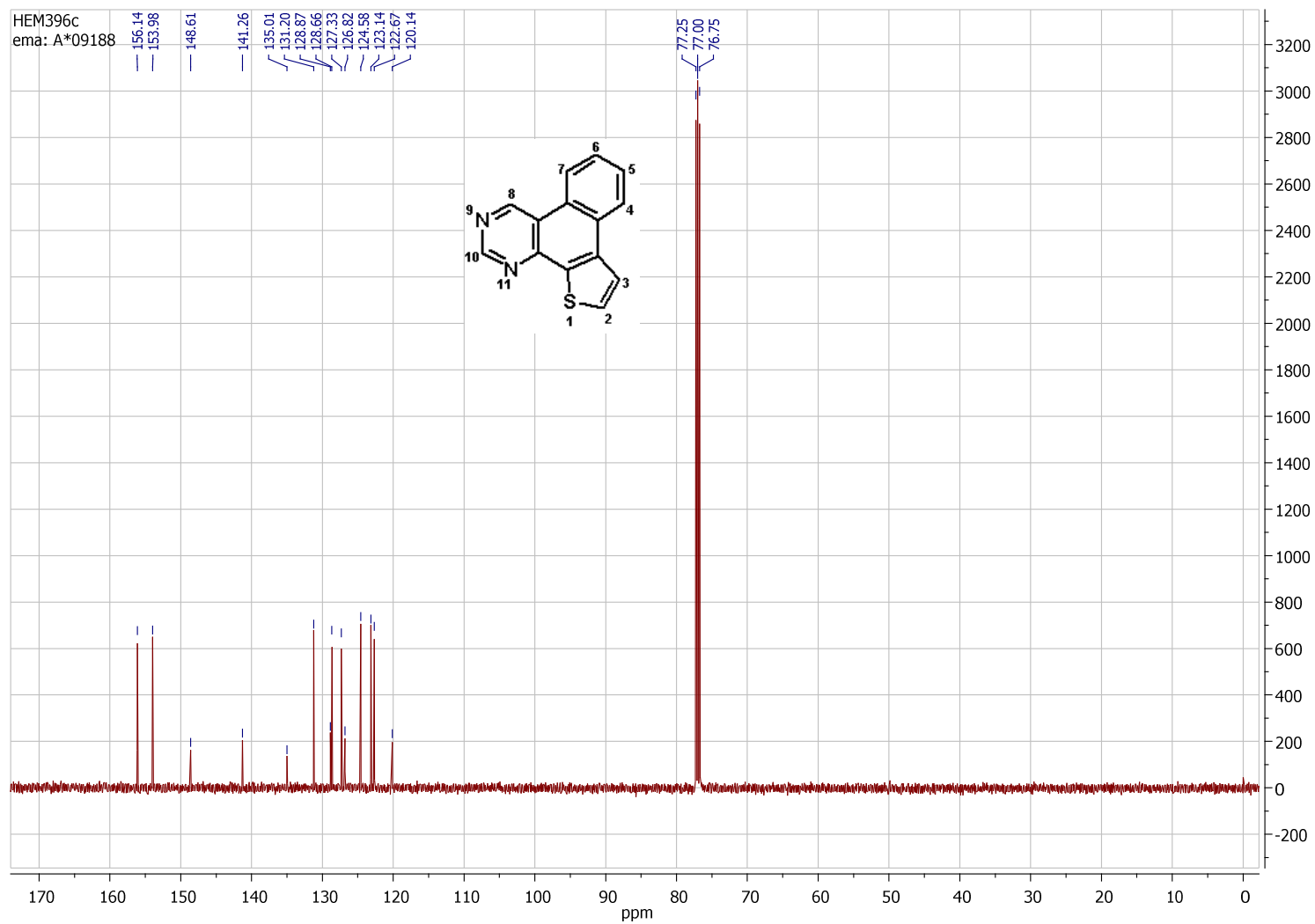
$^{13}\text{C}$  NMR (126 MHz,  $\text{CDCl}_3$ ) spectrum of **5f**.



$^1\text{H}$  NMR (500 MHz,  $\text{CDCl}_3$ ) spectrum of **5g**.

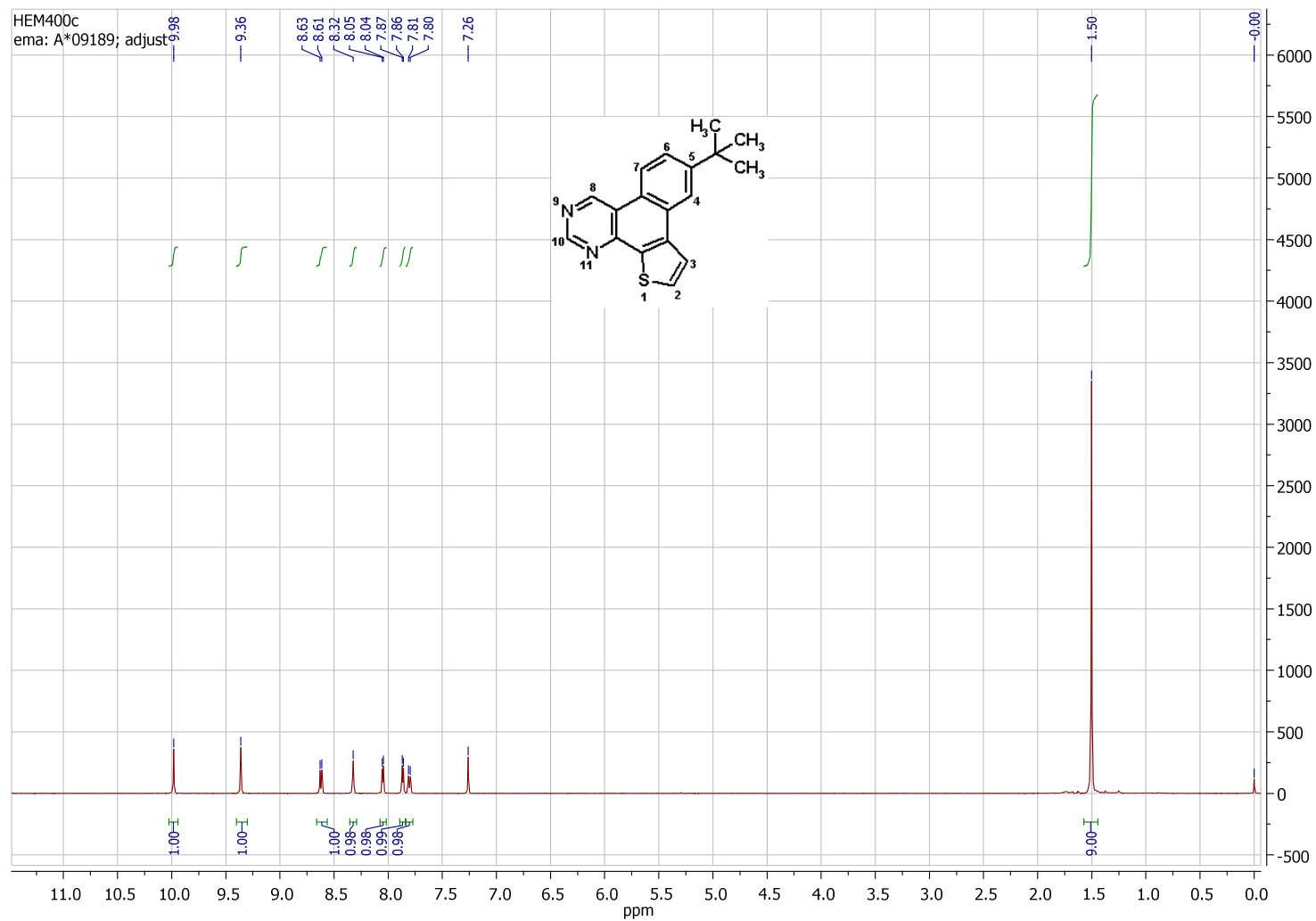


$^{13}\text{C}$  NMR (126 MHz,  $\text{CDCl}_3$ ) spectrum of **5g**.

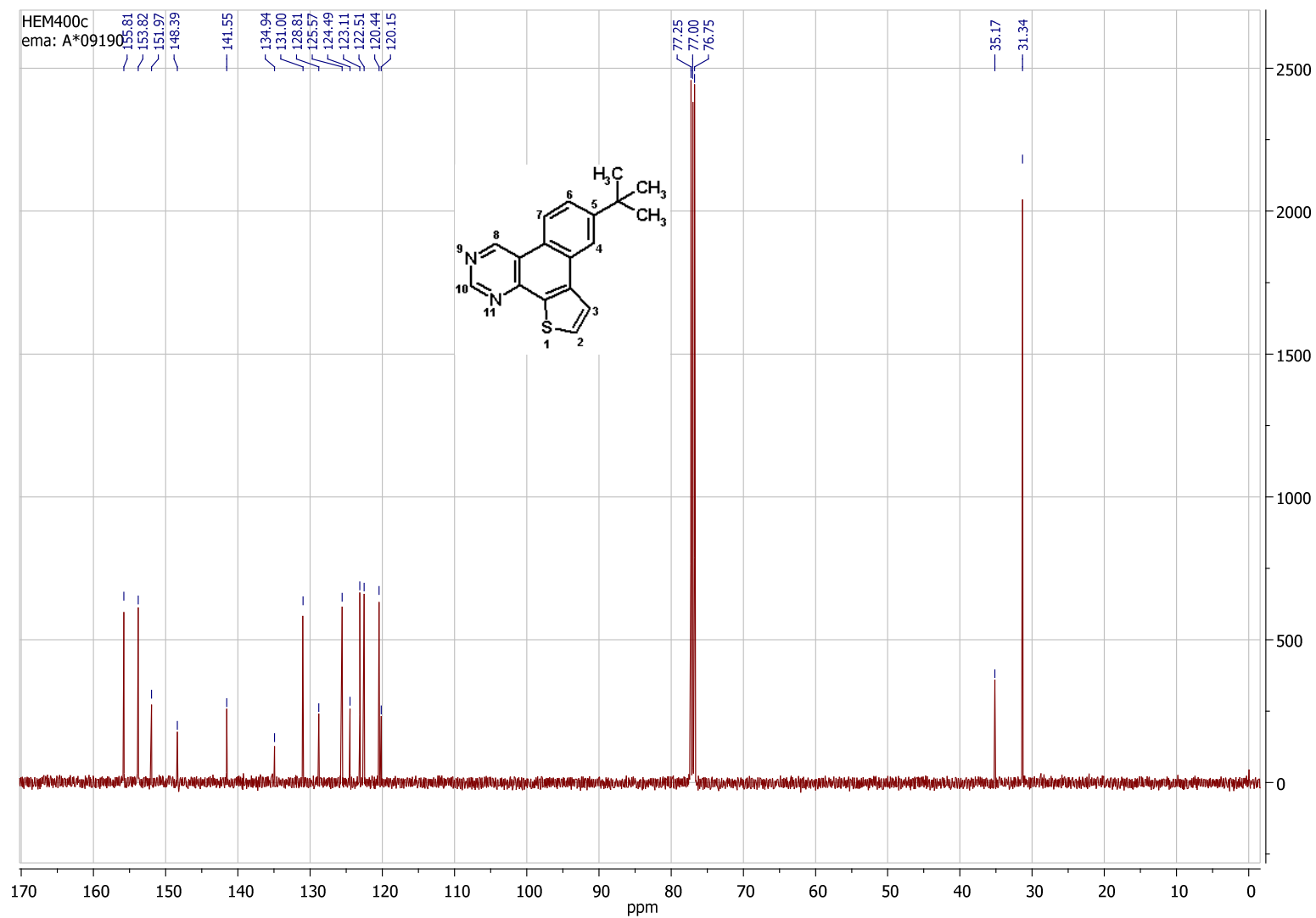


$^{13}\text{C}$  NMR (126 MHz,  $\text{CDCl}_3$ ) spectrum of **6a**.

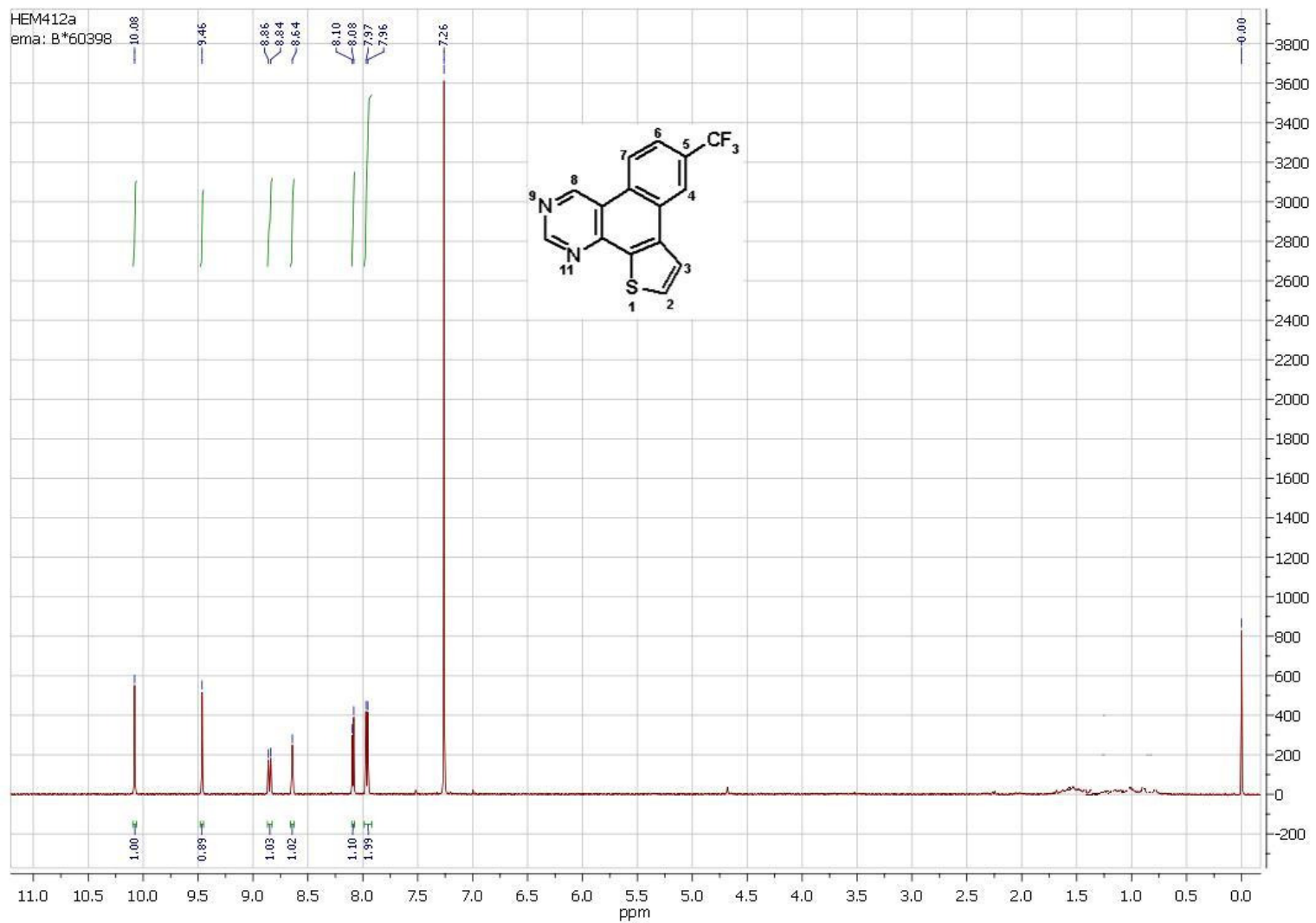




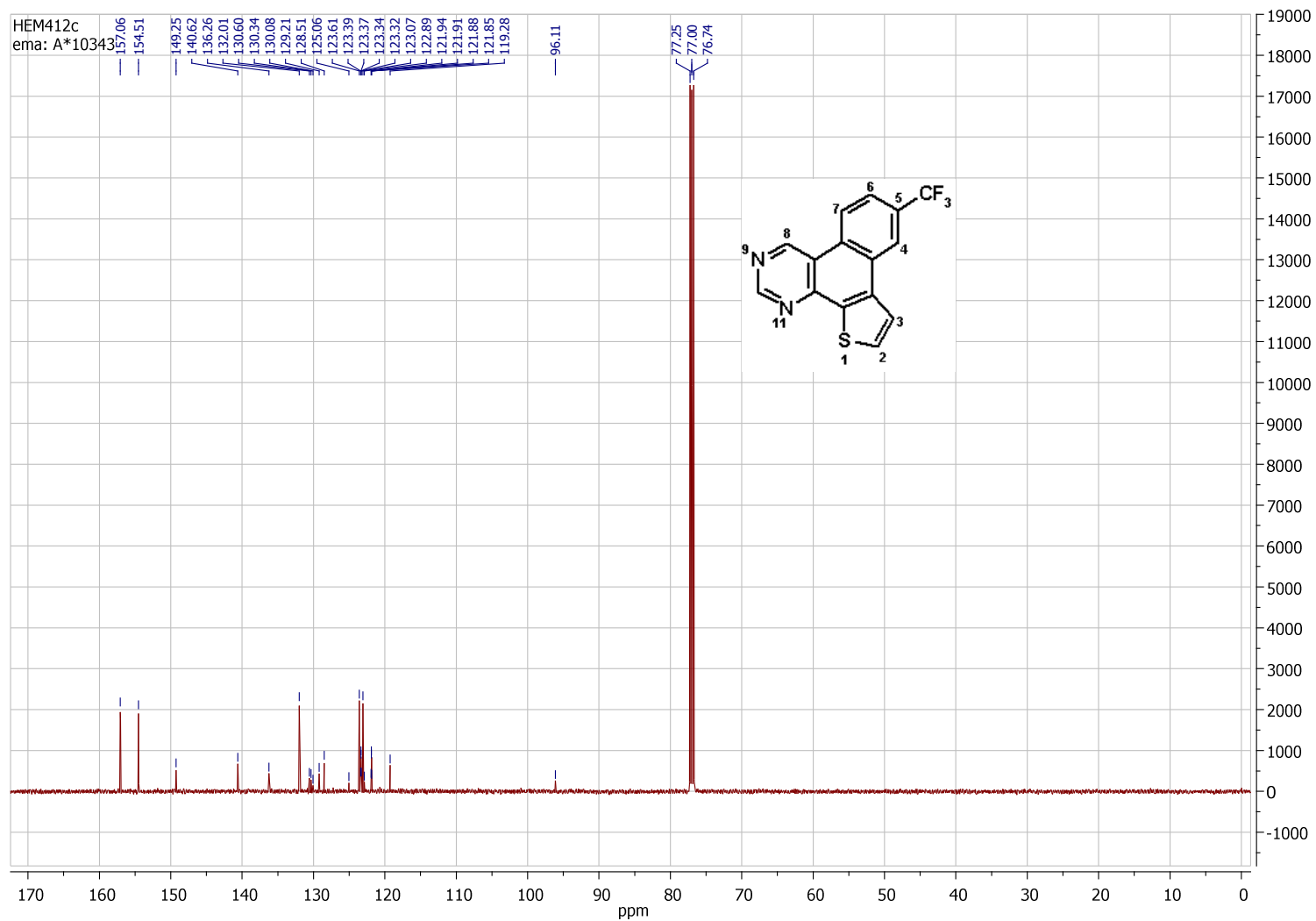
$^1\text{H}$  NMR (500 MHz,  $\text{CDCl}_3$ ) spectrum of **6b**.



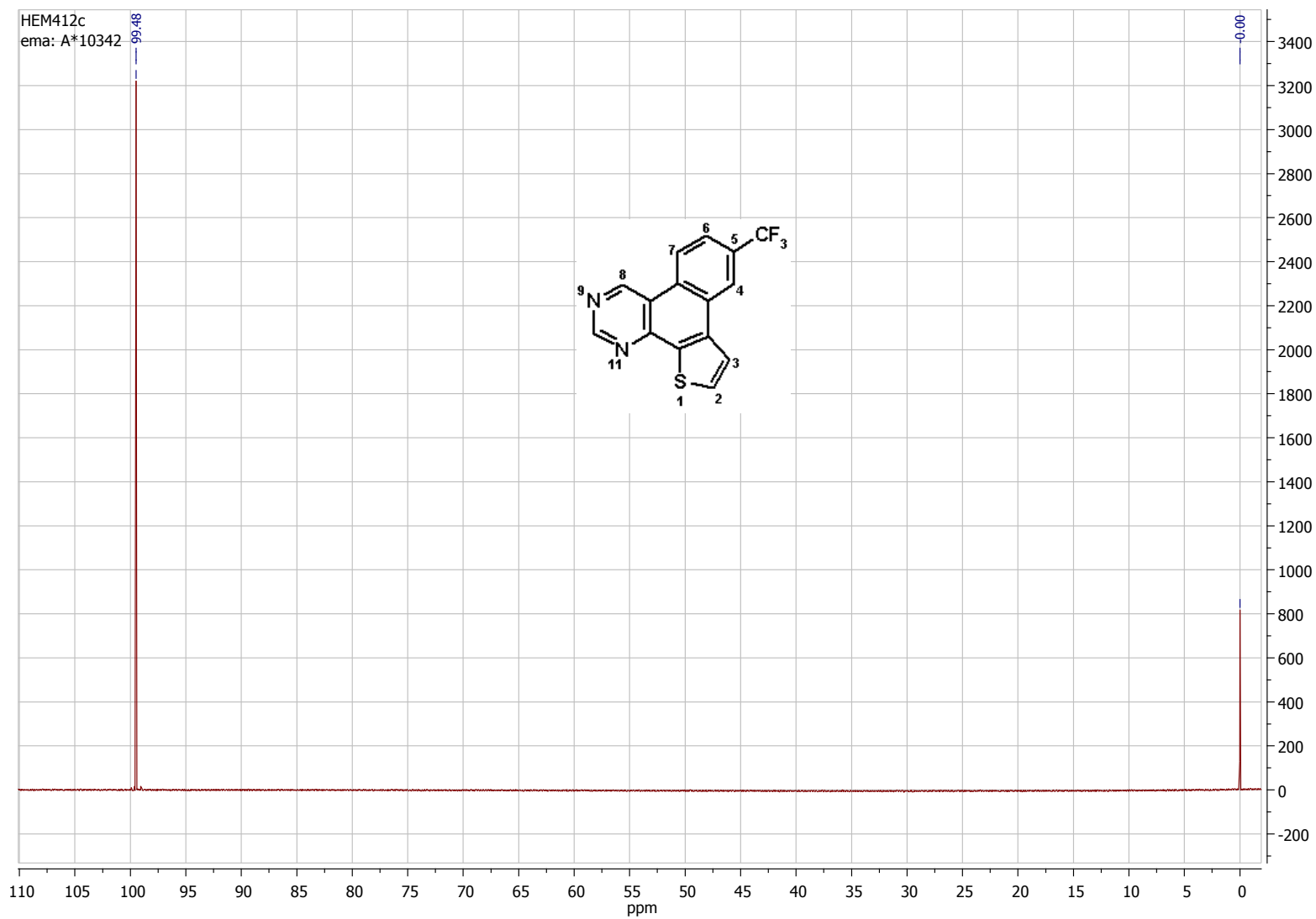
$^{13}\text{C}$  NMR (126 MHz,  $\text{CDCl}_3$ ) spectrum of **6b**.



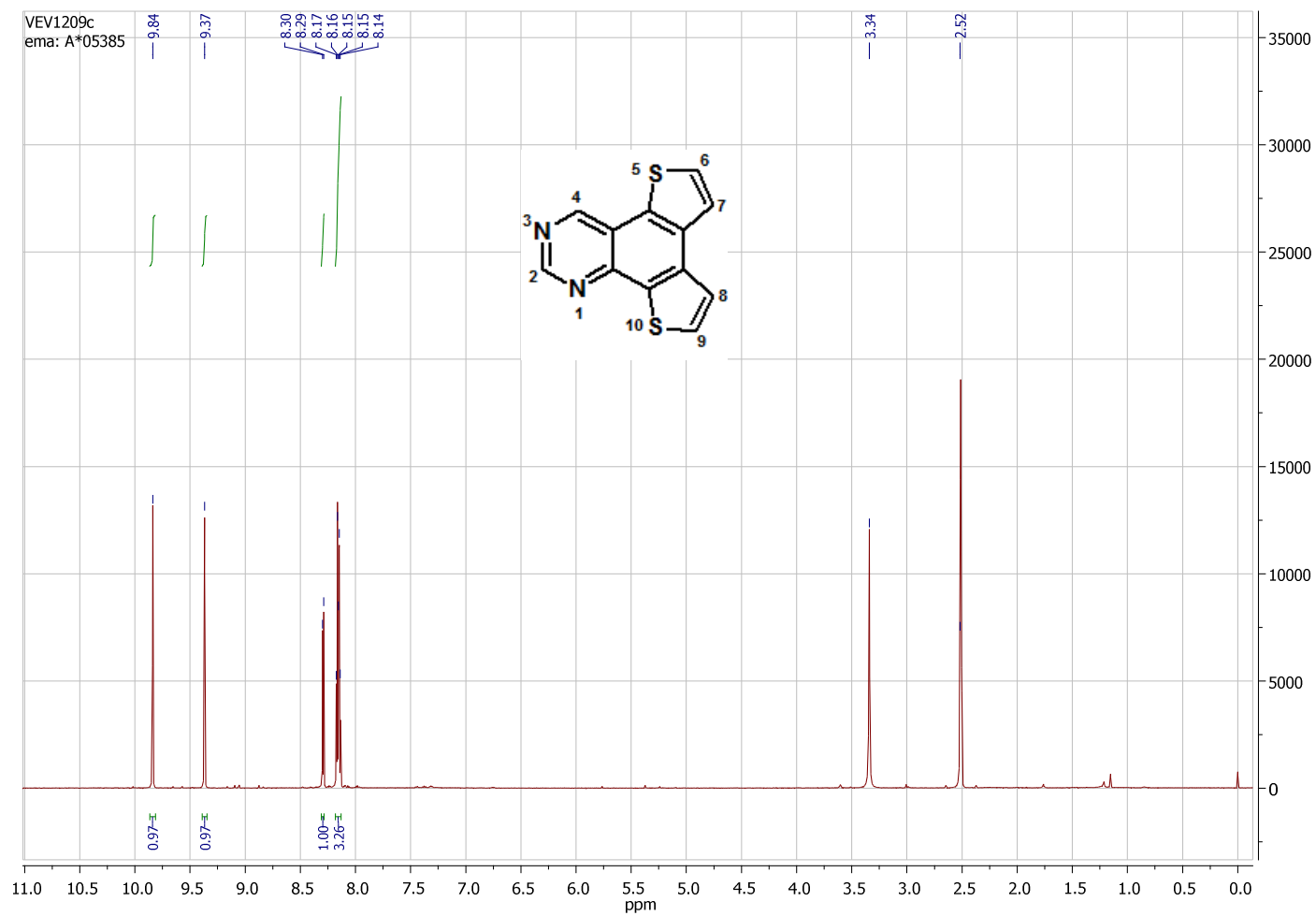
$^1\text{H}$  NMR (500 MHz,  $\text{CDCl}_3$ ) spectrum of **6c**.



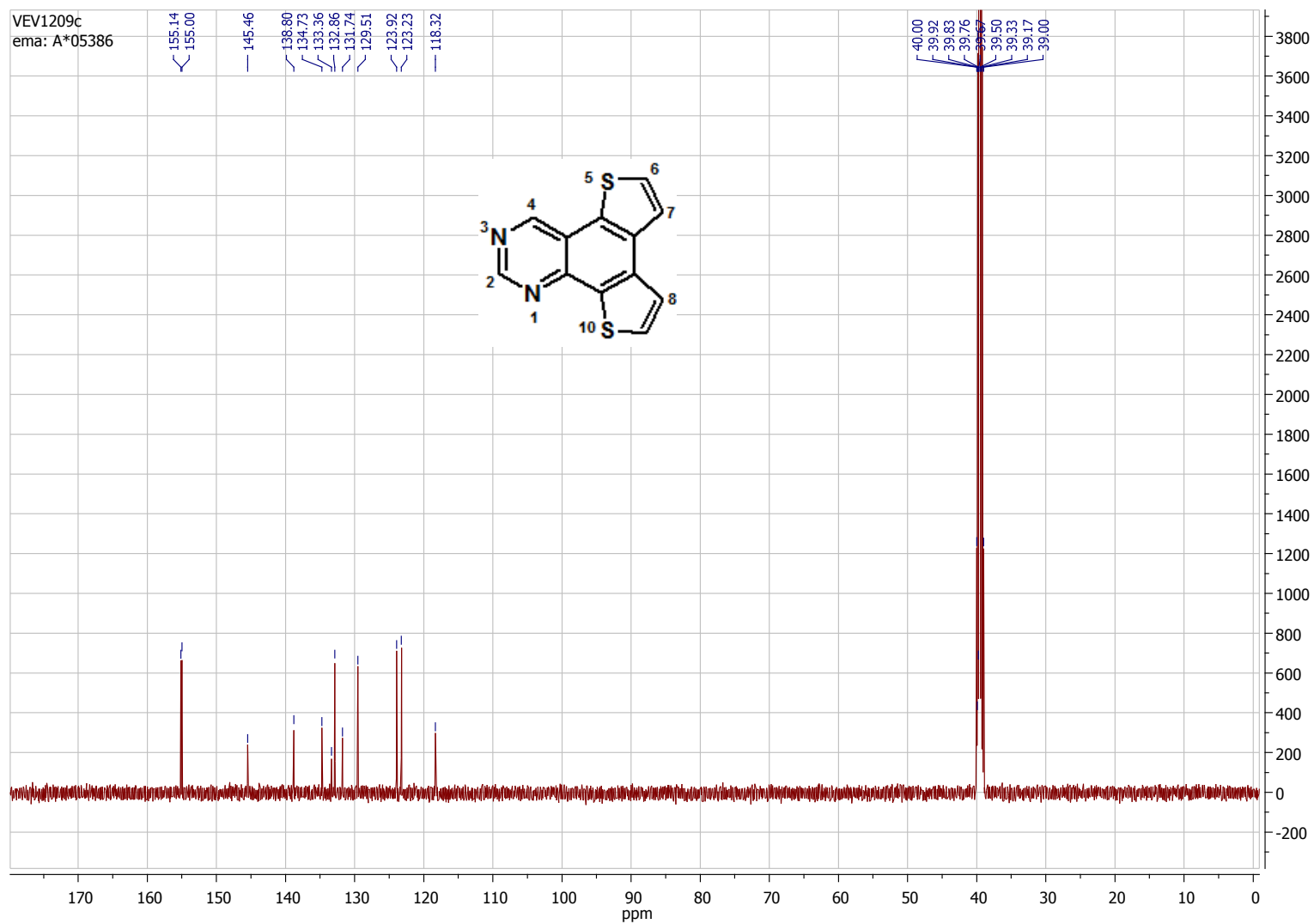
<sup>13</sup>C NMR (126 MHz, CDCl<sub>3</sub>) spectrum of **6c**.



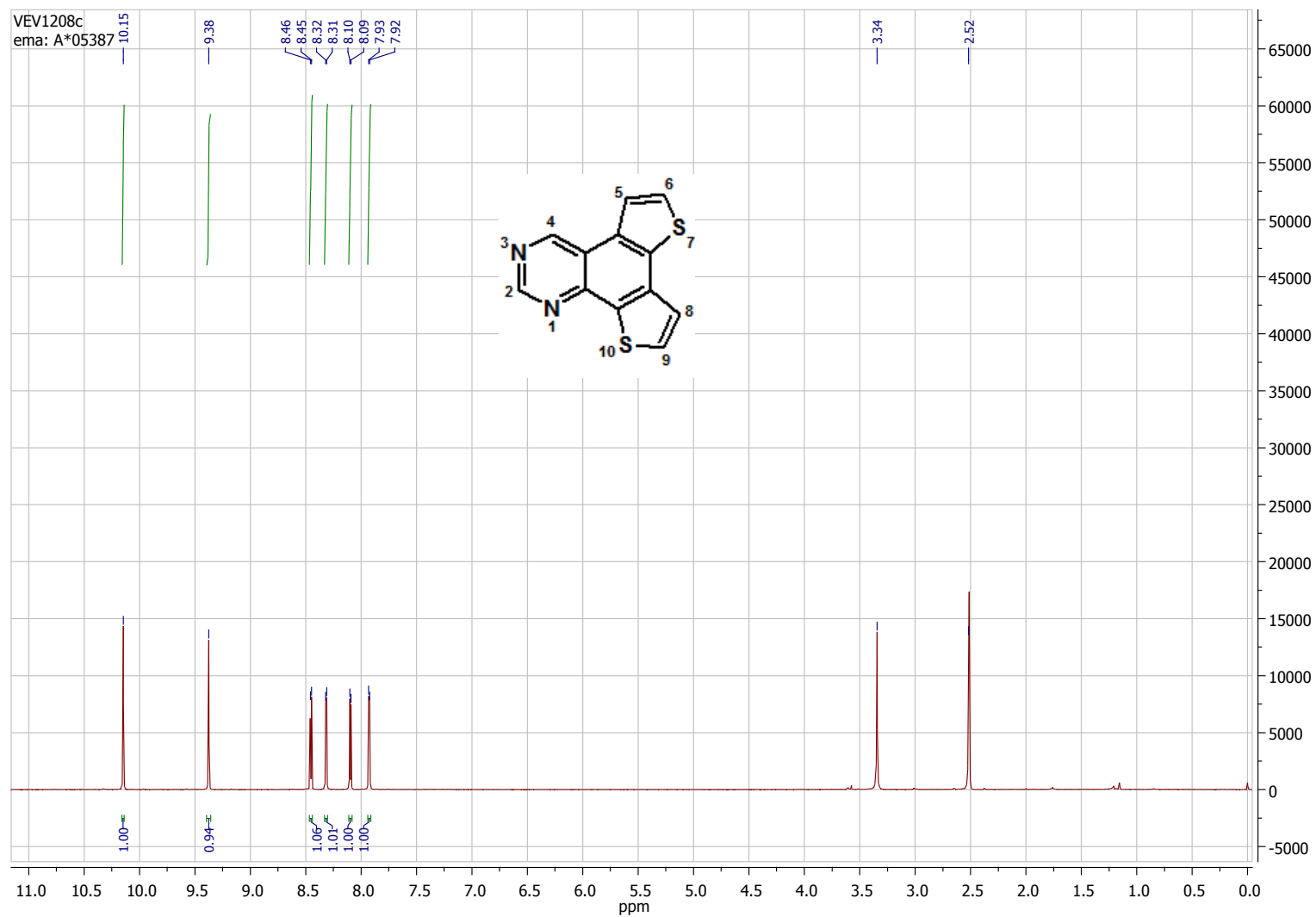
<sup>19</sup>F NMR (470.5 MHz, CDCl<sub>3</sub>) spectrum of **6c**.



$^1\text{H}$  NMR (500 MHz,  $\text{DMSO}-d_6$ ) spectrum of **6d**.

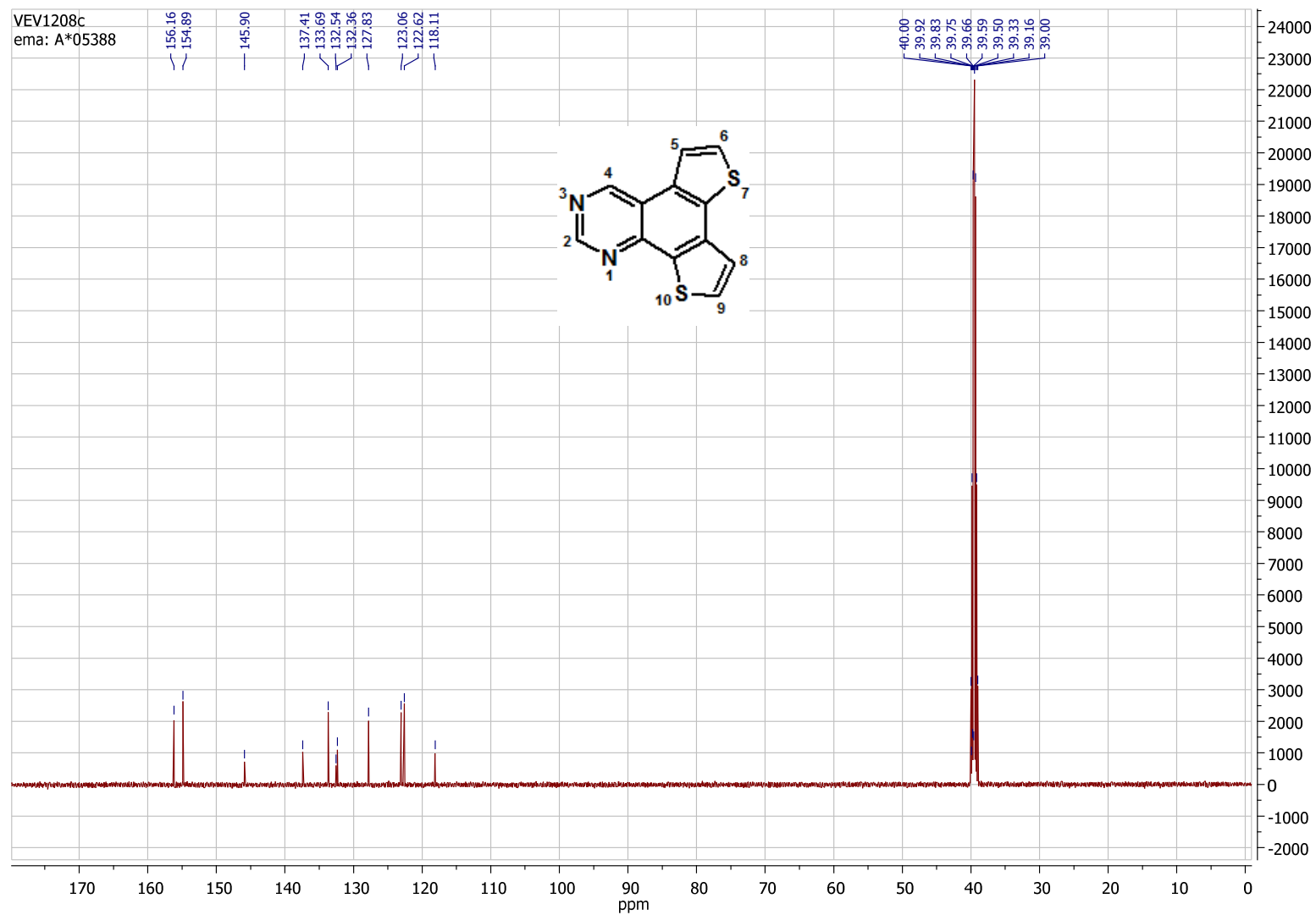


$^{13}\text{C}$  NMR (126 MHz,  $\text{DMSO-}d_6$ ) spectrum of **6d**.

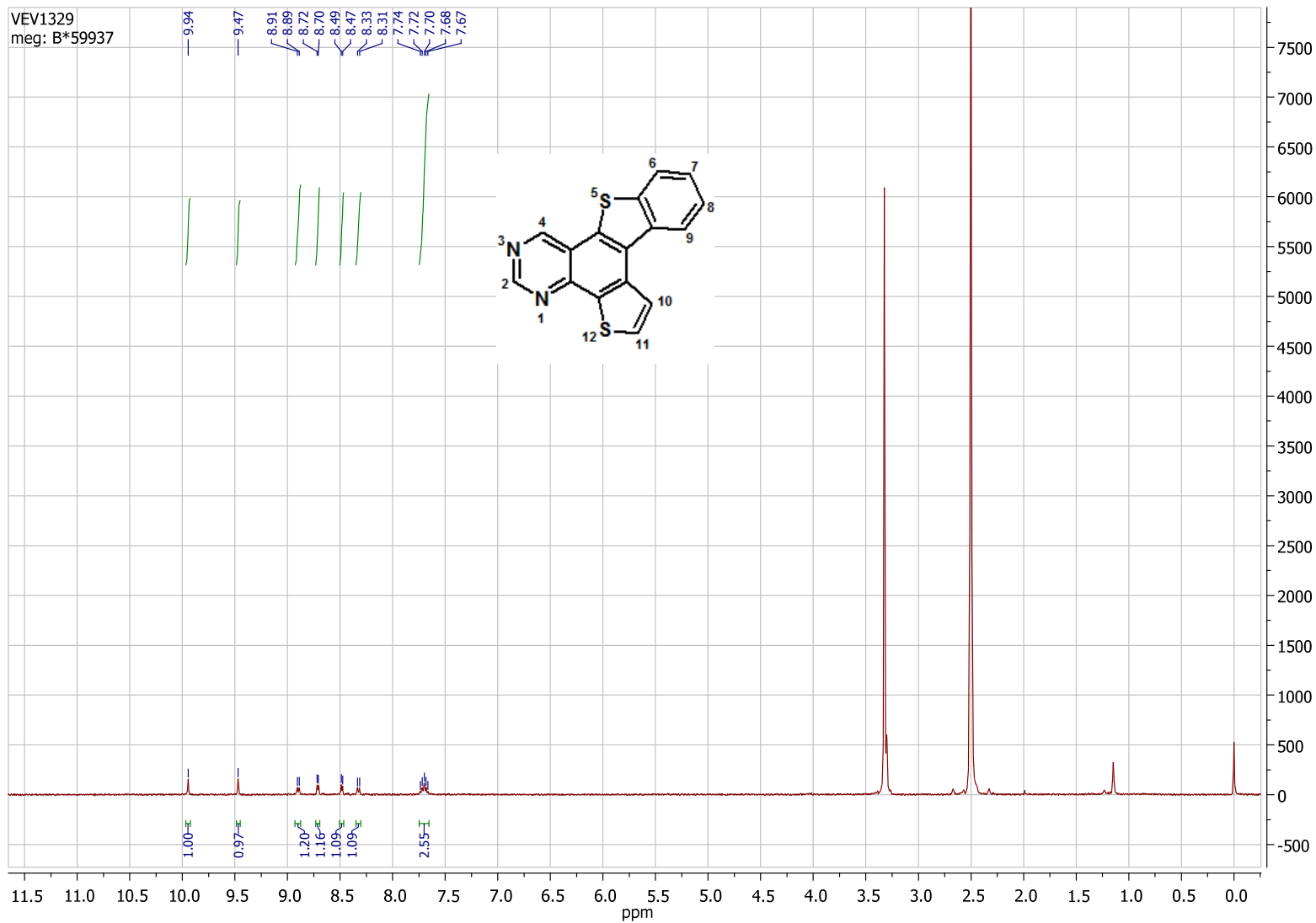


$^1\text{H}$  NMR (500 MHz,  $\text{DMSO}-d_6$ ) spectrum of **6e**.

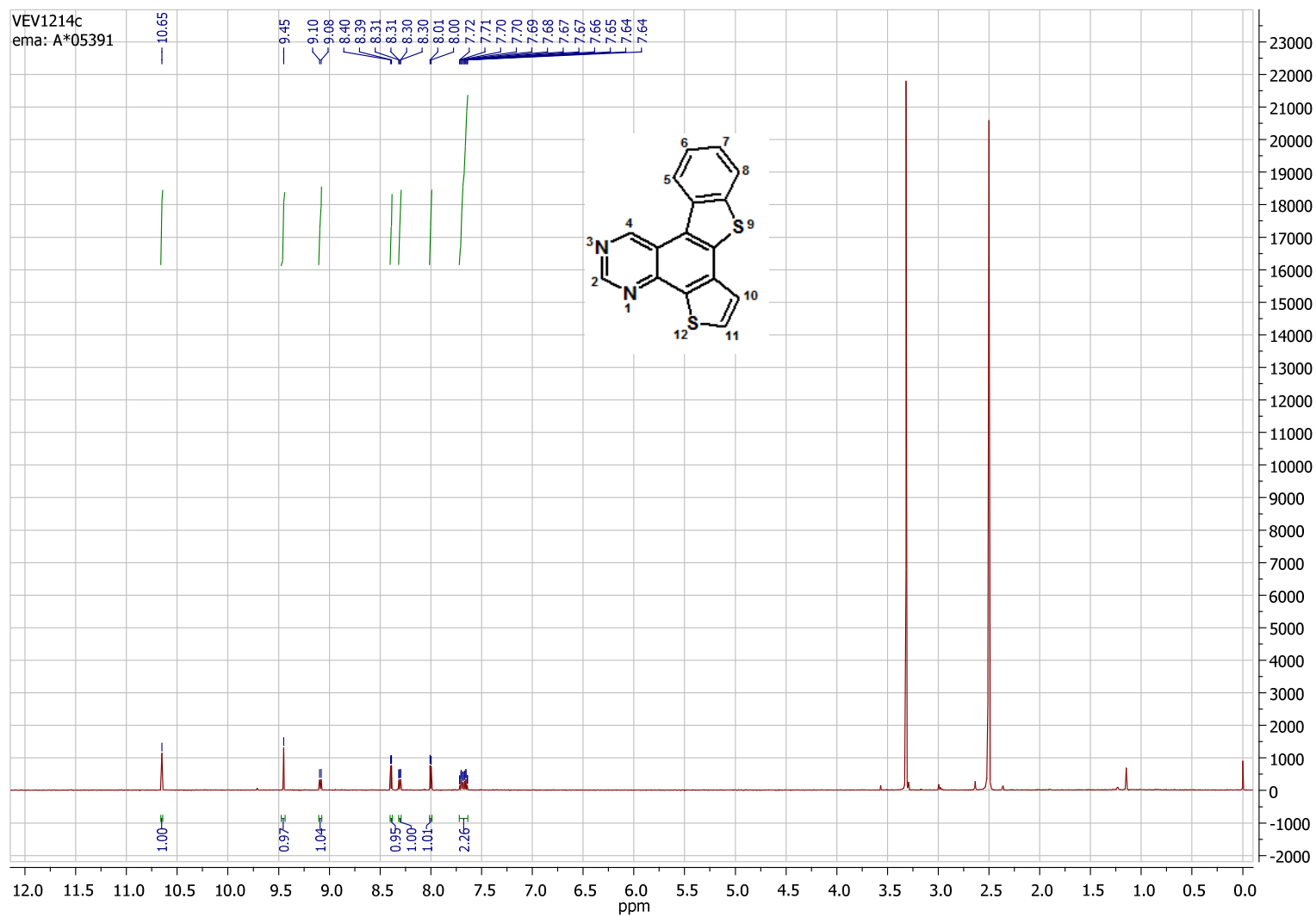




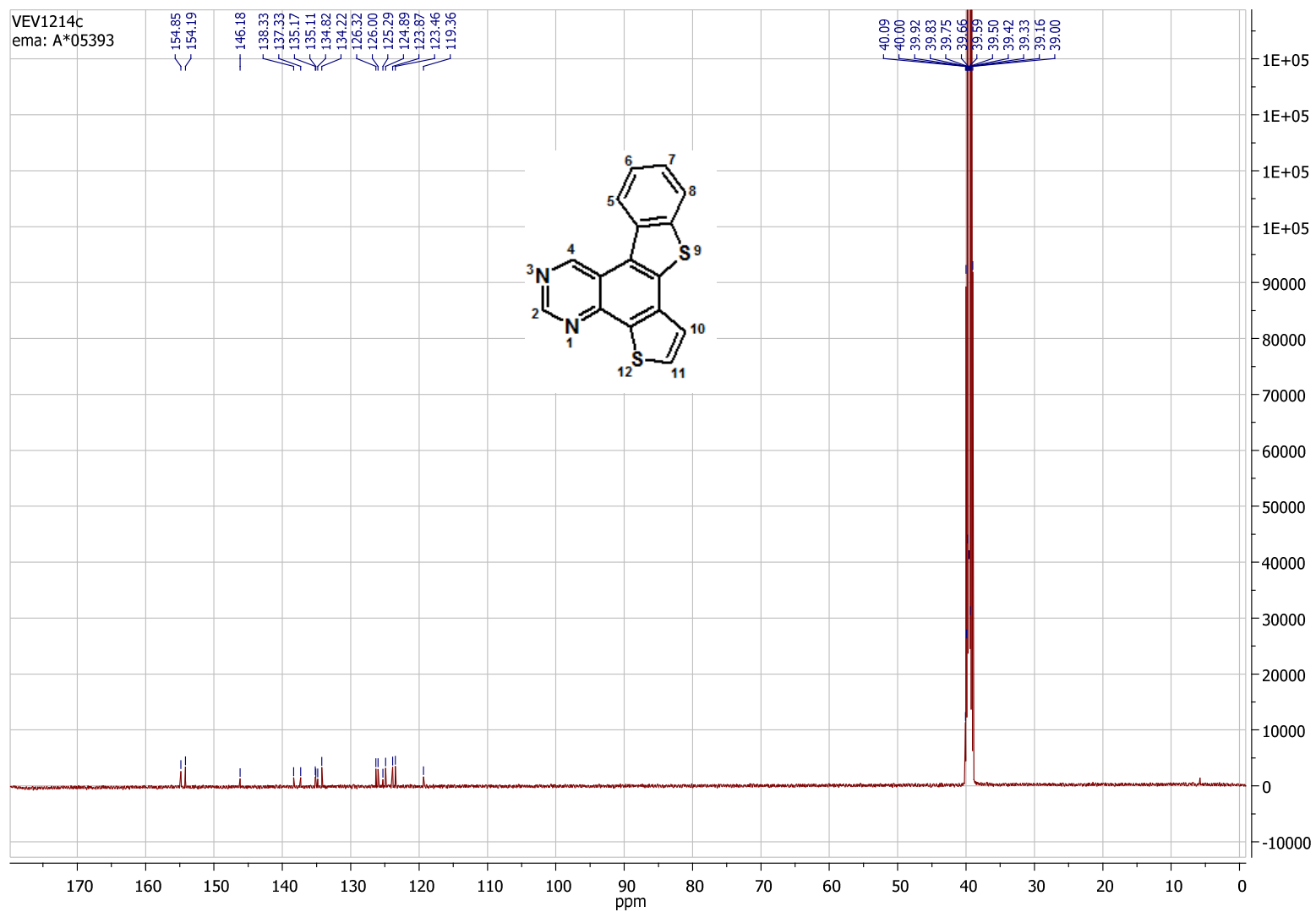
$^{13}\text{C}$  NMR (126 MHz,  $\text{DMSO-}d_6$ ) spectrum of **6e**.



$^1\text{H}$  NMR (500 MHz,  $\text{DMSO}-d_6$ ) spectrum of **6f**.



$^1\text{H}$  NMR (500 MHz,  $\text{DMSO}-d_6$ ) spectrum of **6g**.



$^{13}\text{C}$  NMR (126 MHz,  $\text{DMSO-}d_6$ ) spectrum of **6g**.