

## Supplementary Information

### Design, Synthesis and Anticancer Biological Evaluation of Novel 1,4-Diaryl-1,2,3-triazole Retinoid Analogues of Tamibarotene (AM80)

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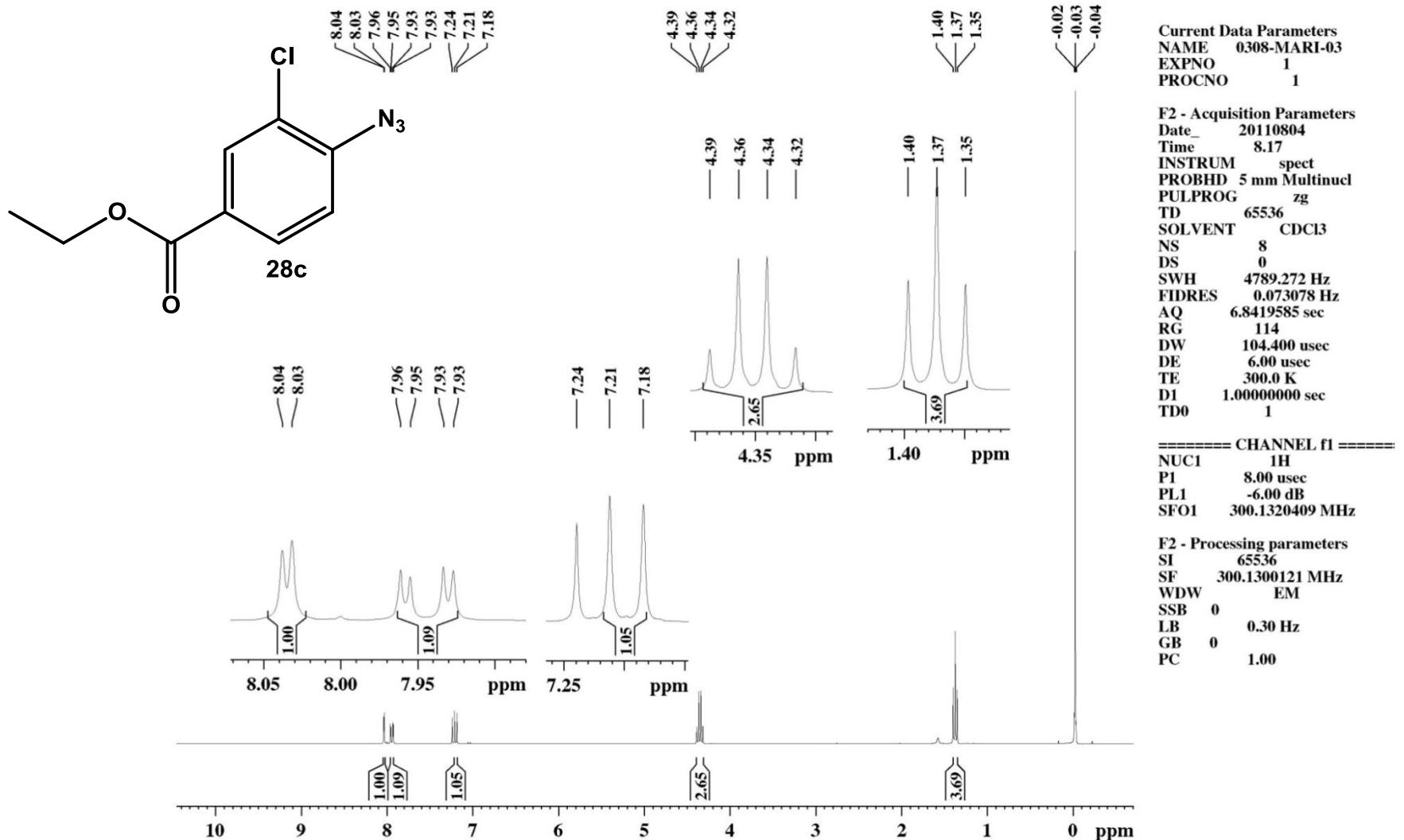
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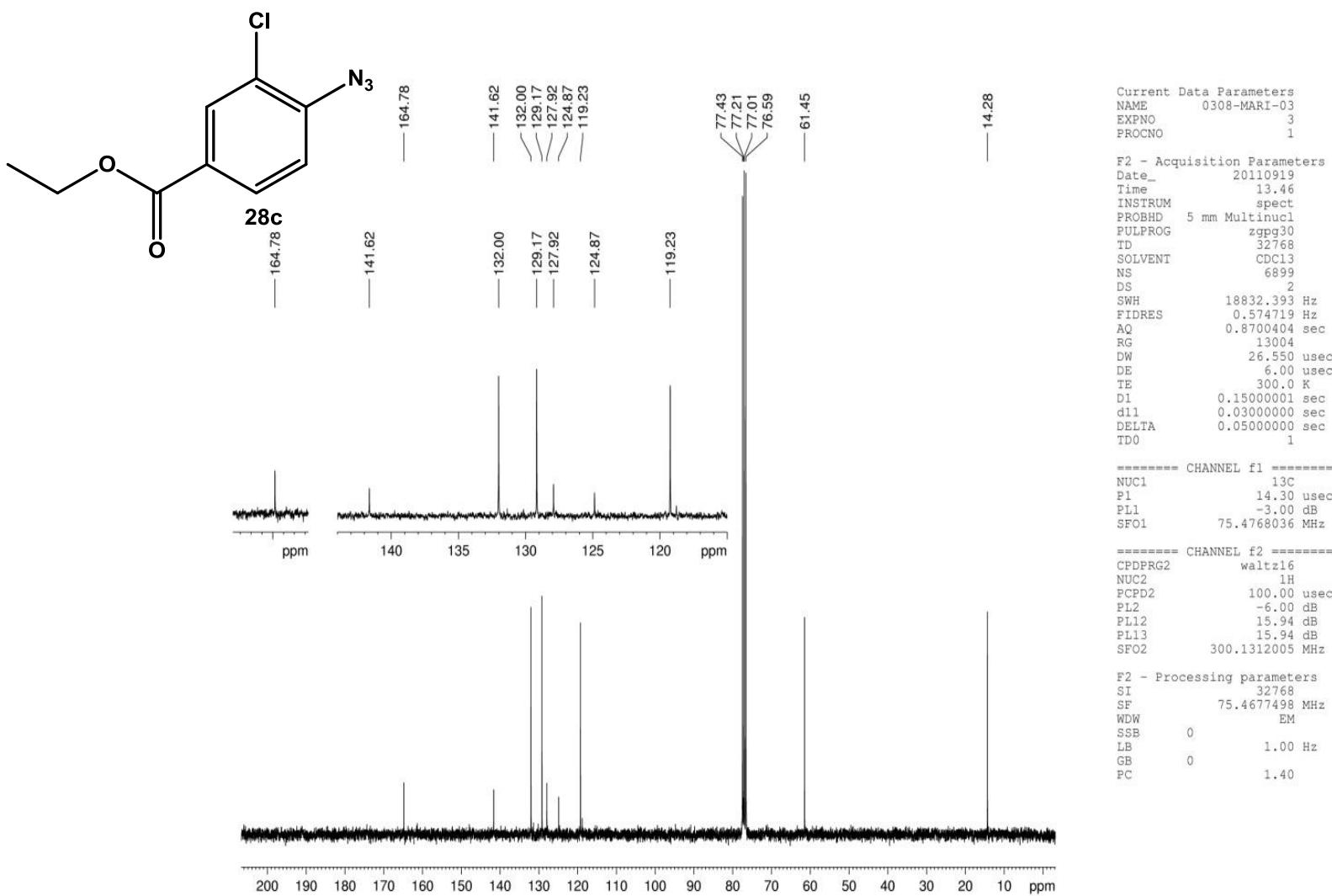
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80230-901 Curitiba-PR, Brazil

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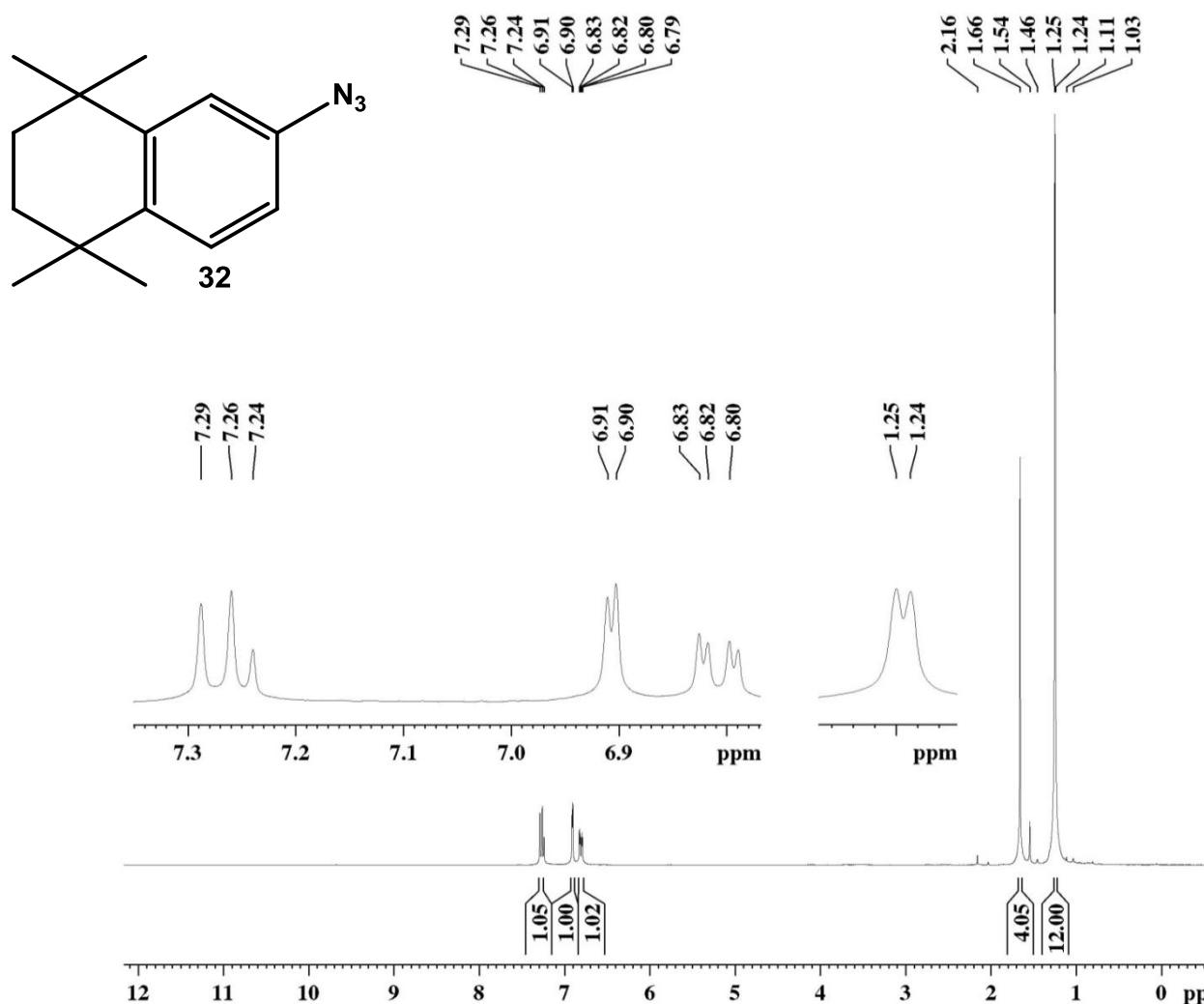
\*e-mail: adriano.baroni@ufms.br



**Figure S1.** <sup>1</sup>H NMR spectrum (300 MHz, CDCl<sub>3</sub>) of compound 28c.



**Figure S2.**  $^{13}\text{C}$  NMR spectrum (75 MHz,  $\text{CDCl}_3$ ) of compound **28c**.



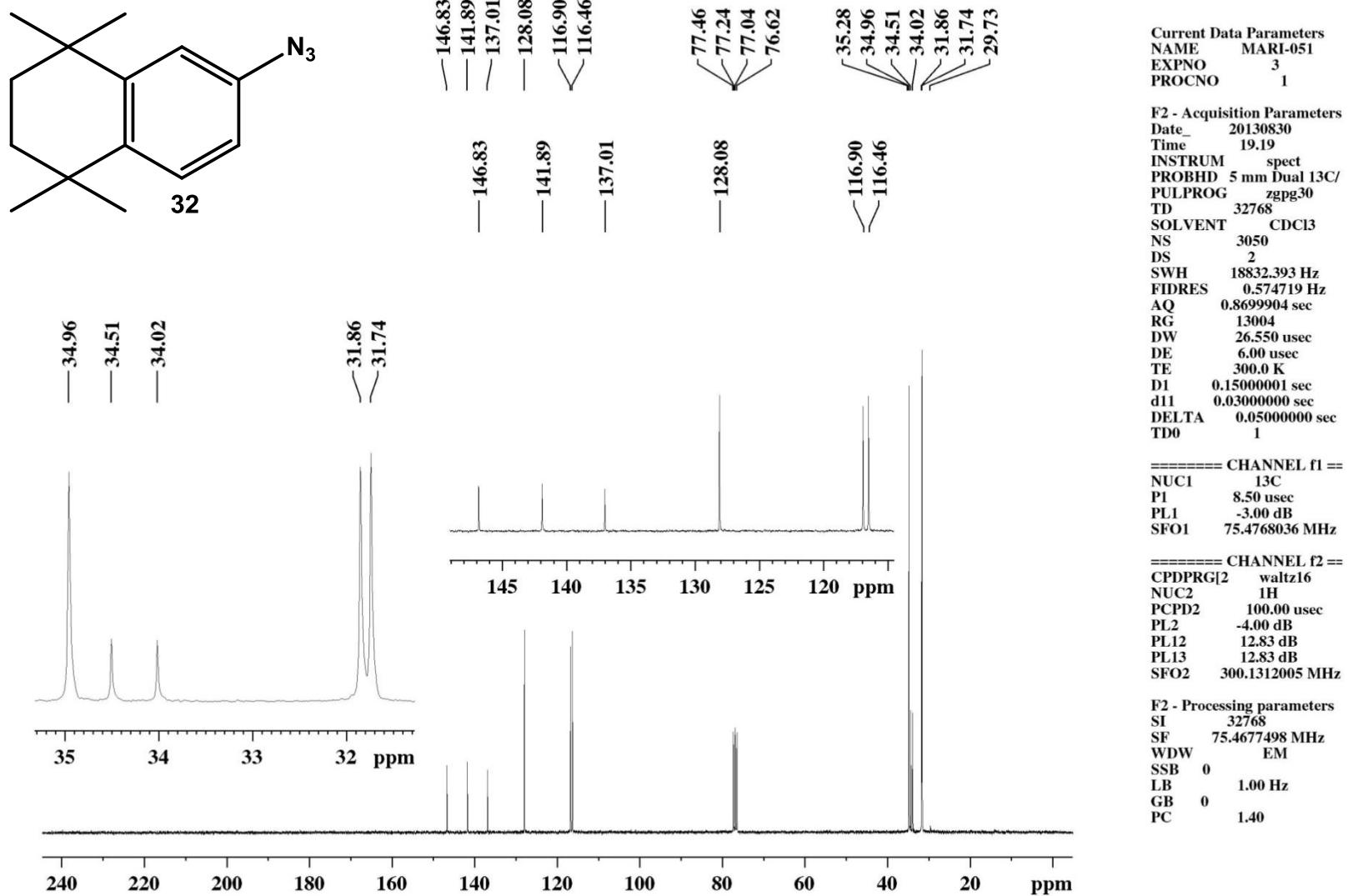
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 NS 8  
 DS 0  
 SWH 4789.272 Hz  
 FIDRES 0.073078 Hz  
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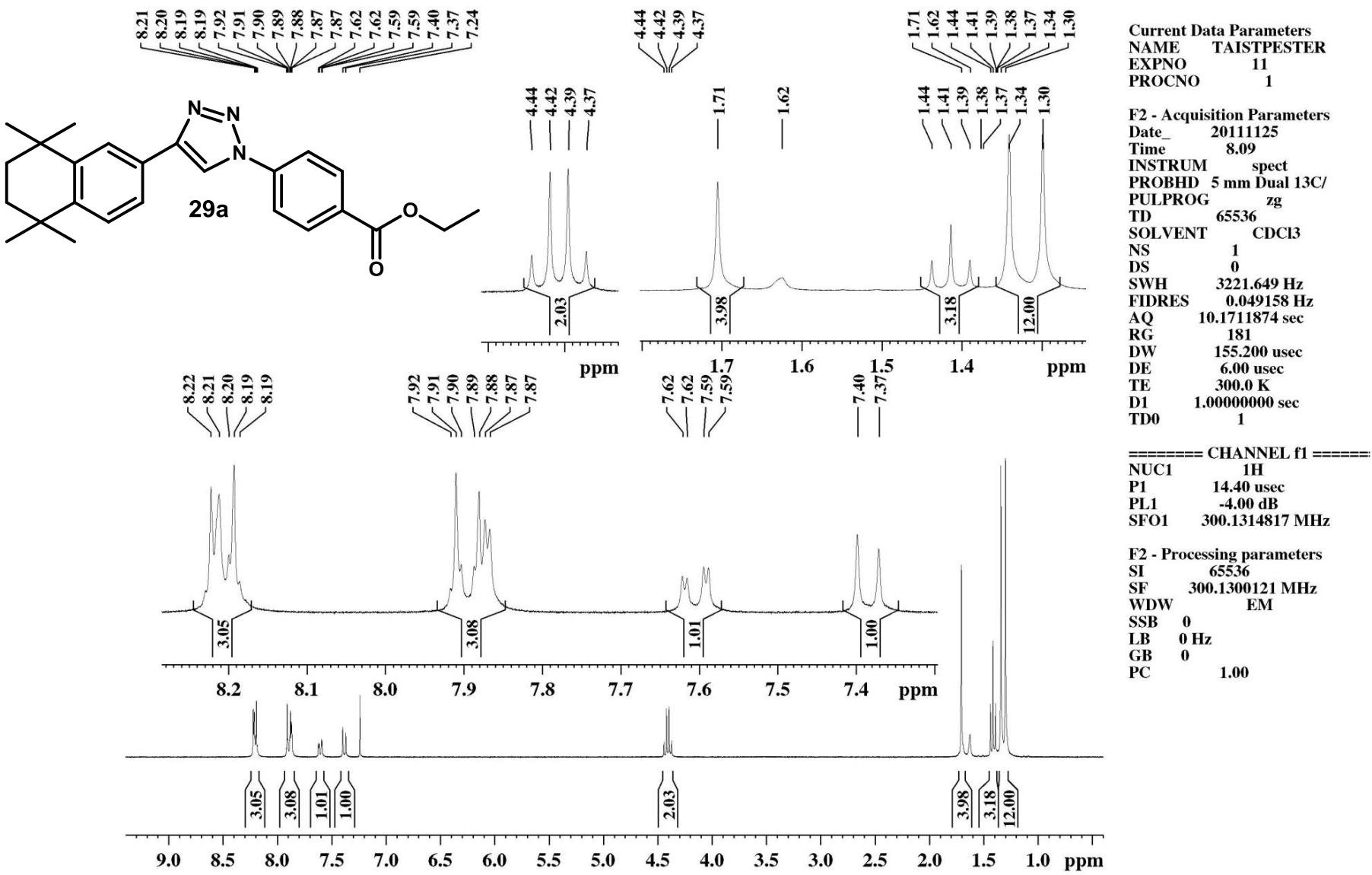
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 GB 0  
 PC 1.00

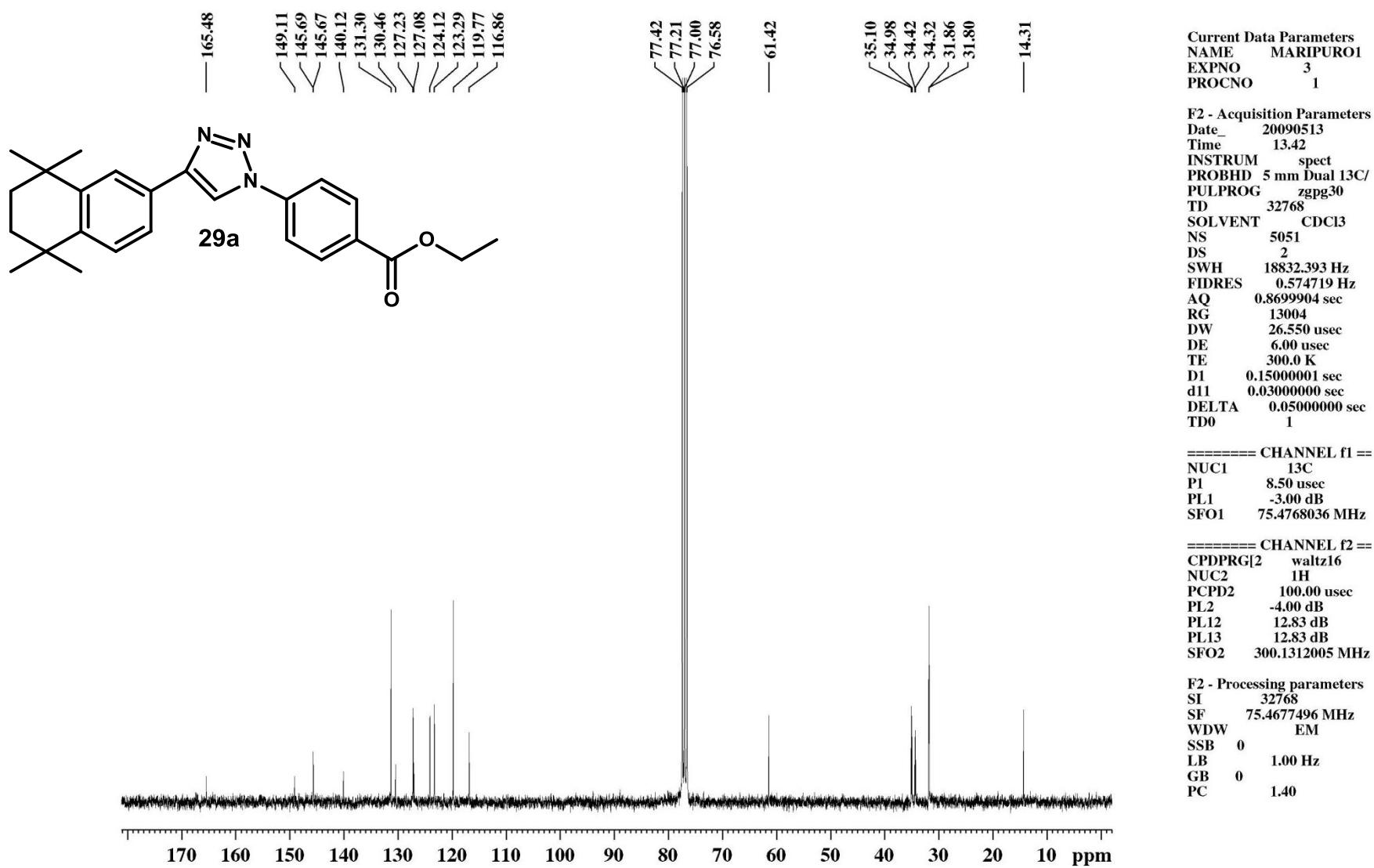
**Figure S3.** <sup>1</sup>H NMR spectrum (300 MHz, CDCl<sub>3</sub>) of compound 32.



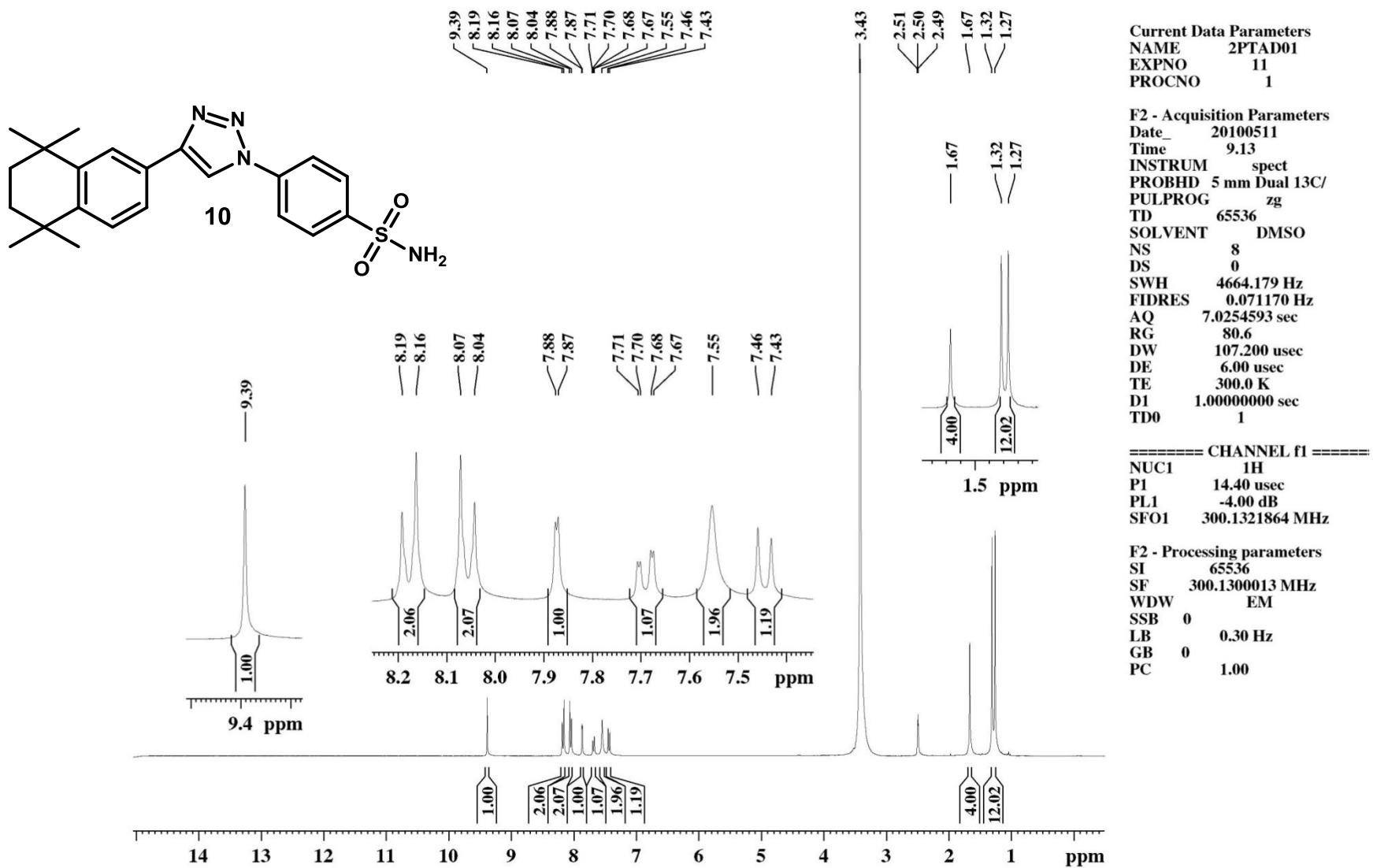
**Figure S4.**  $^{13}\text{C}$  NMR spectrum (75 MHz, CDCl<sub>3</sub>) of compound 32.



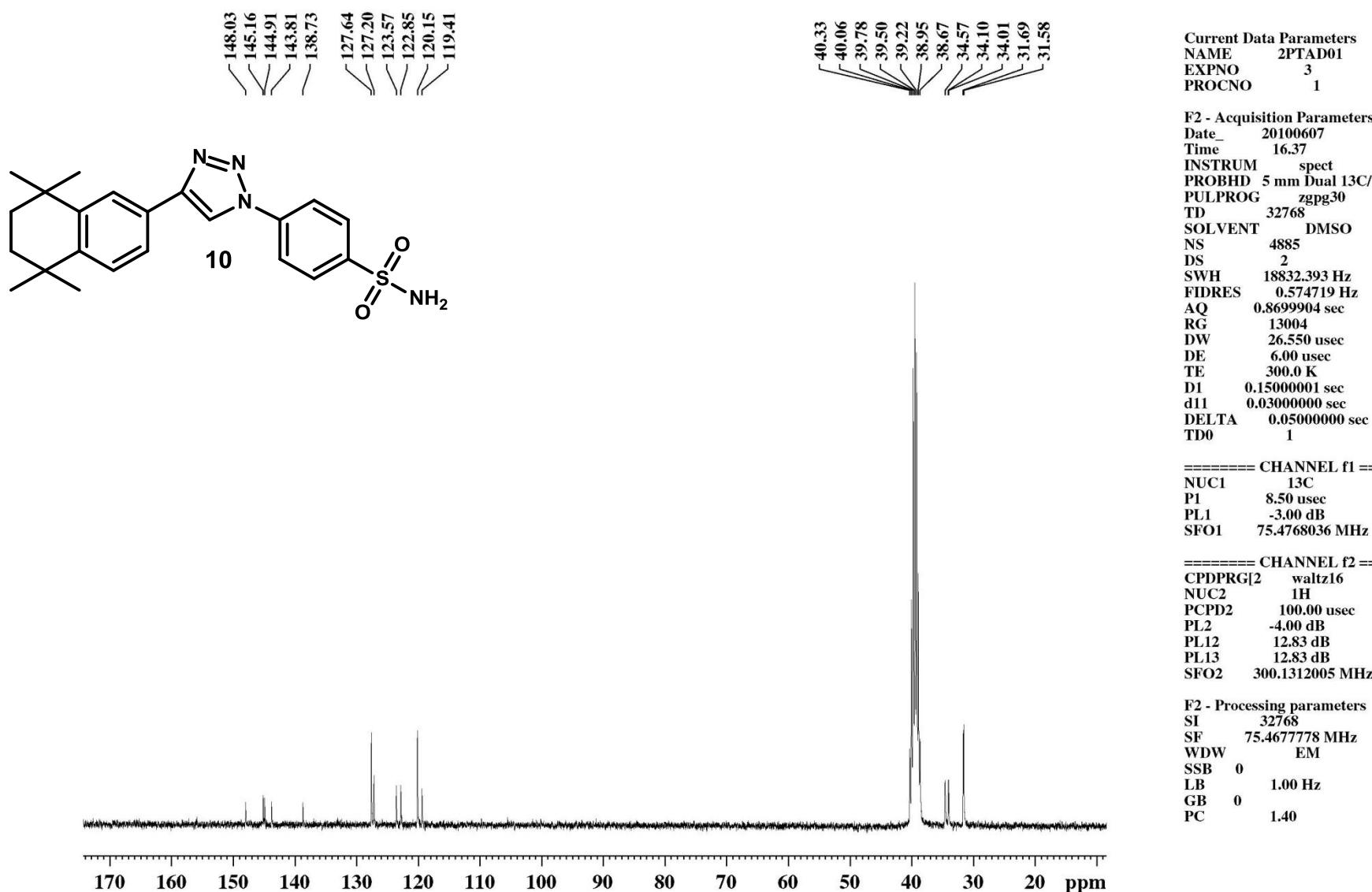
**Figure S5.** <sup>1</sup>H NMR spectrum (300 MHz, CDCl<sub>3</sub>) of compound 29a.



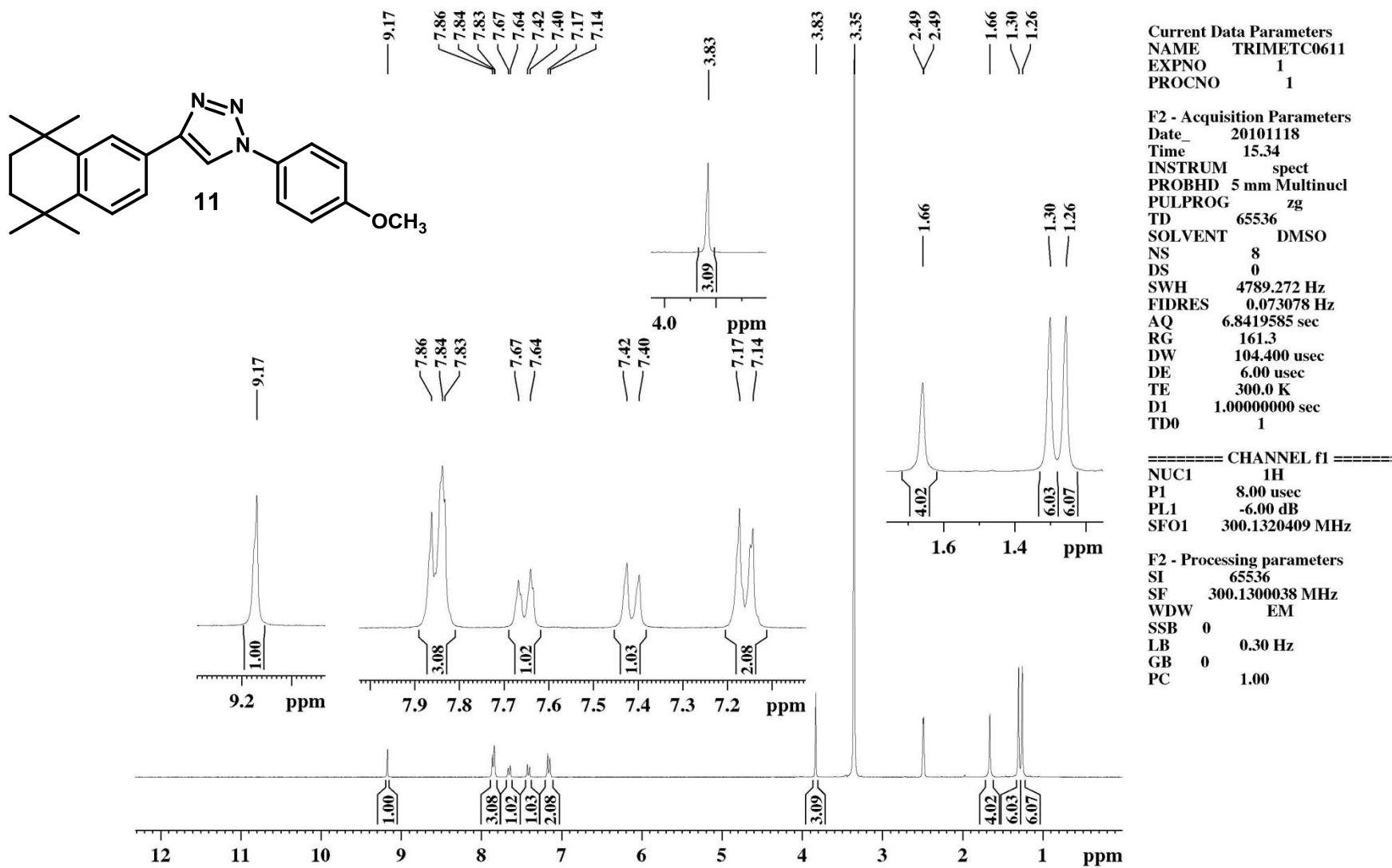
**Figure S6.** <sup>13</sup>C NMR spectrum (75 MHz, CDCl<sub>3</sub>) of compound 29a.



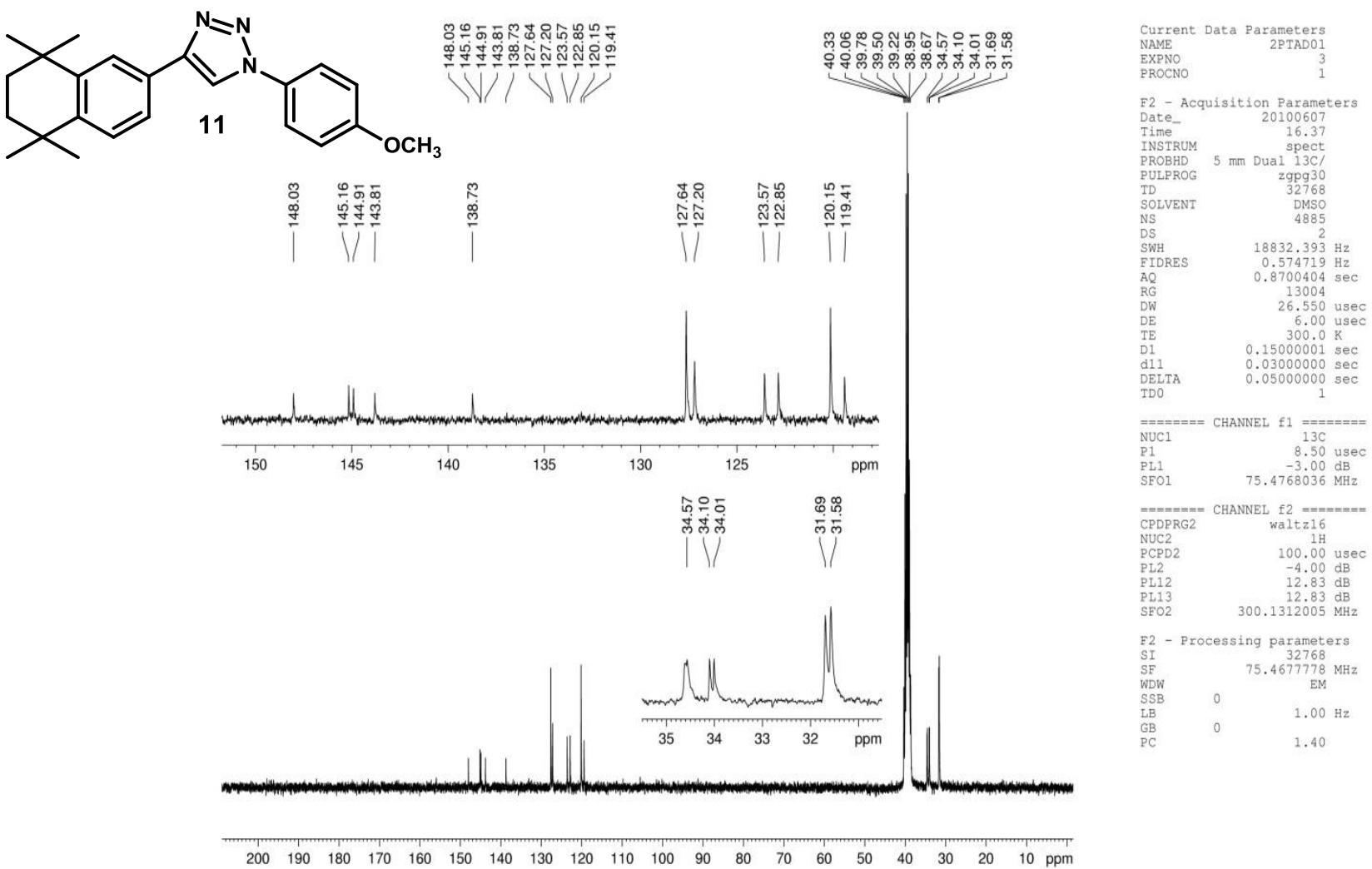
**Figure S7.**  $^1\text{H}$  NMR spectrum (300 MHz,  $\text{CDCl}_3$ ) of compound **10**.



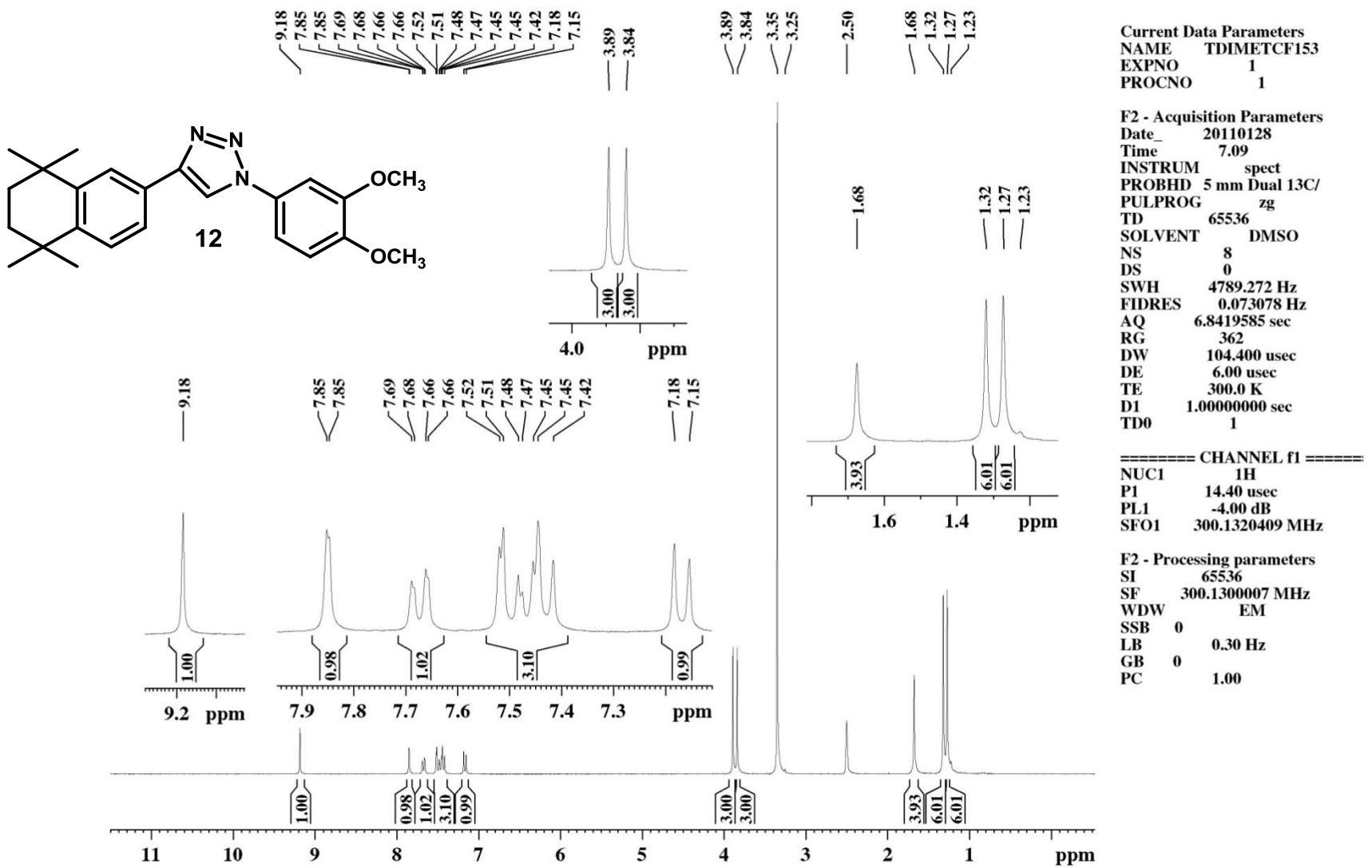
**Figure S8.**  $^{13}\text{C}$  NMR spectrum (75 MHz,  $\text{CDCl}_3$ ) of compound **10**.



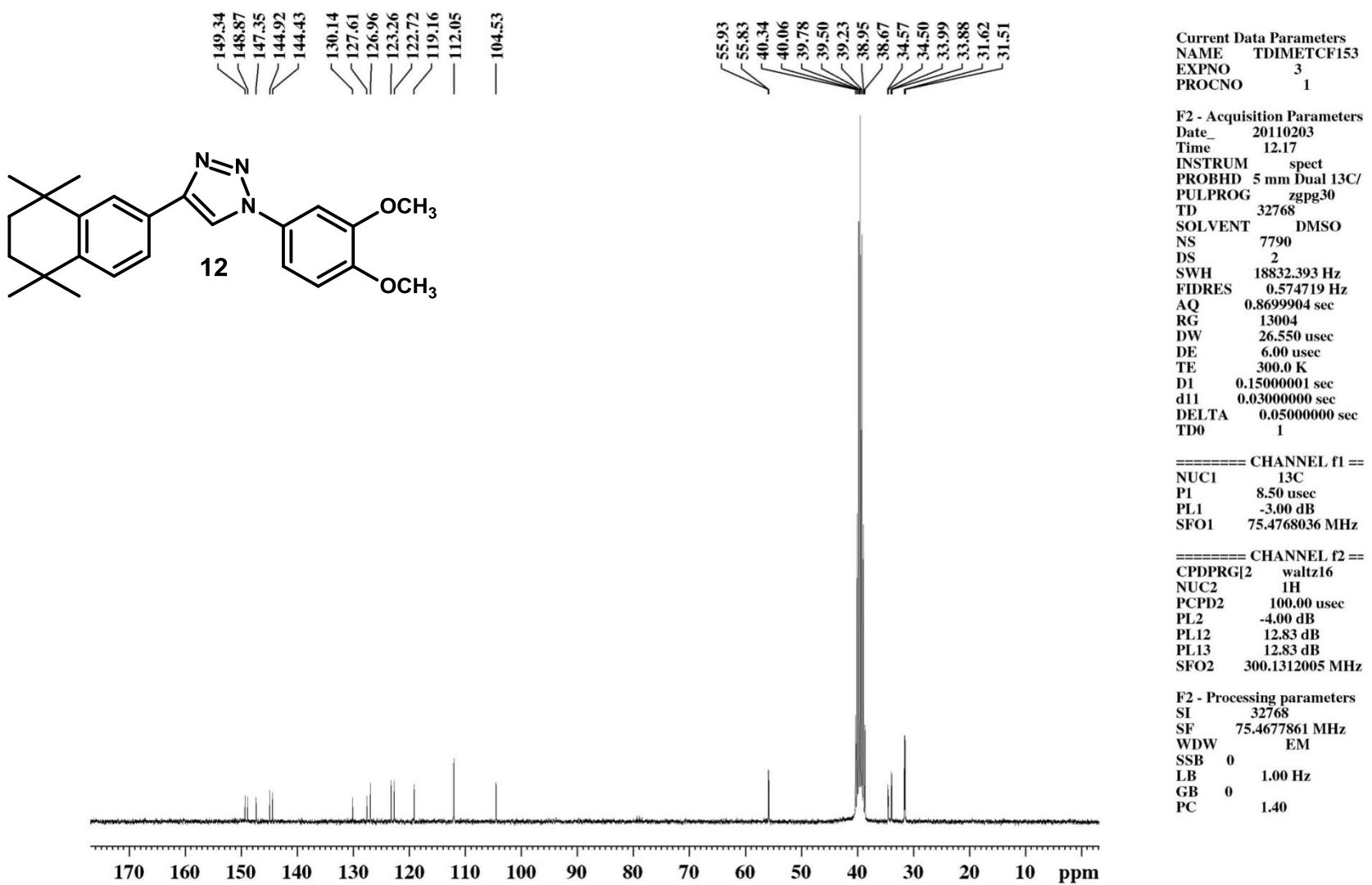
**Figure S9.**  $^1\text{H}$  NMR spectrum (300 MHz,  $\text{CDCl}_3$ ) of compound 11.



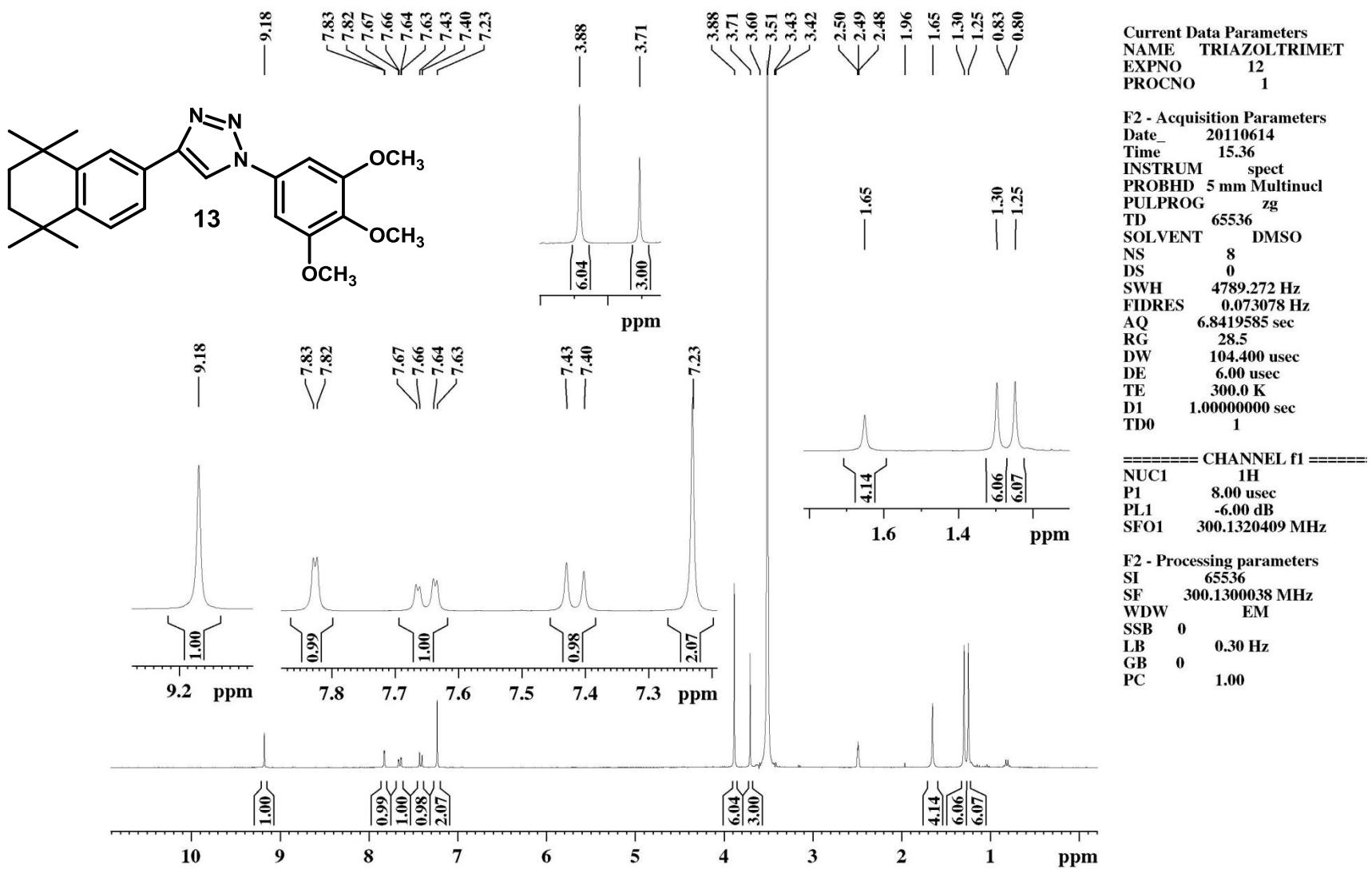
**Figure S10.**  $^{13}\text{C}$  NMR spectrum (75 MHz,  $\text{CDCl}_3$ ) of compound **11**.



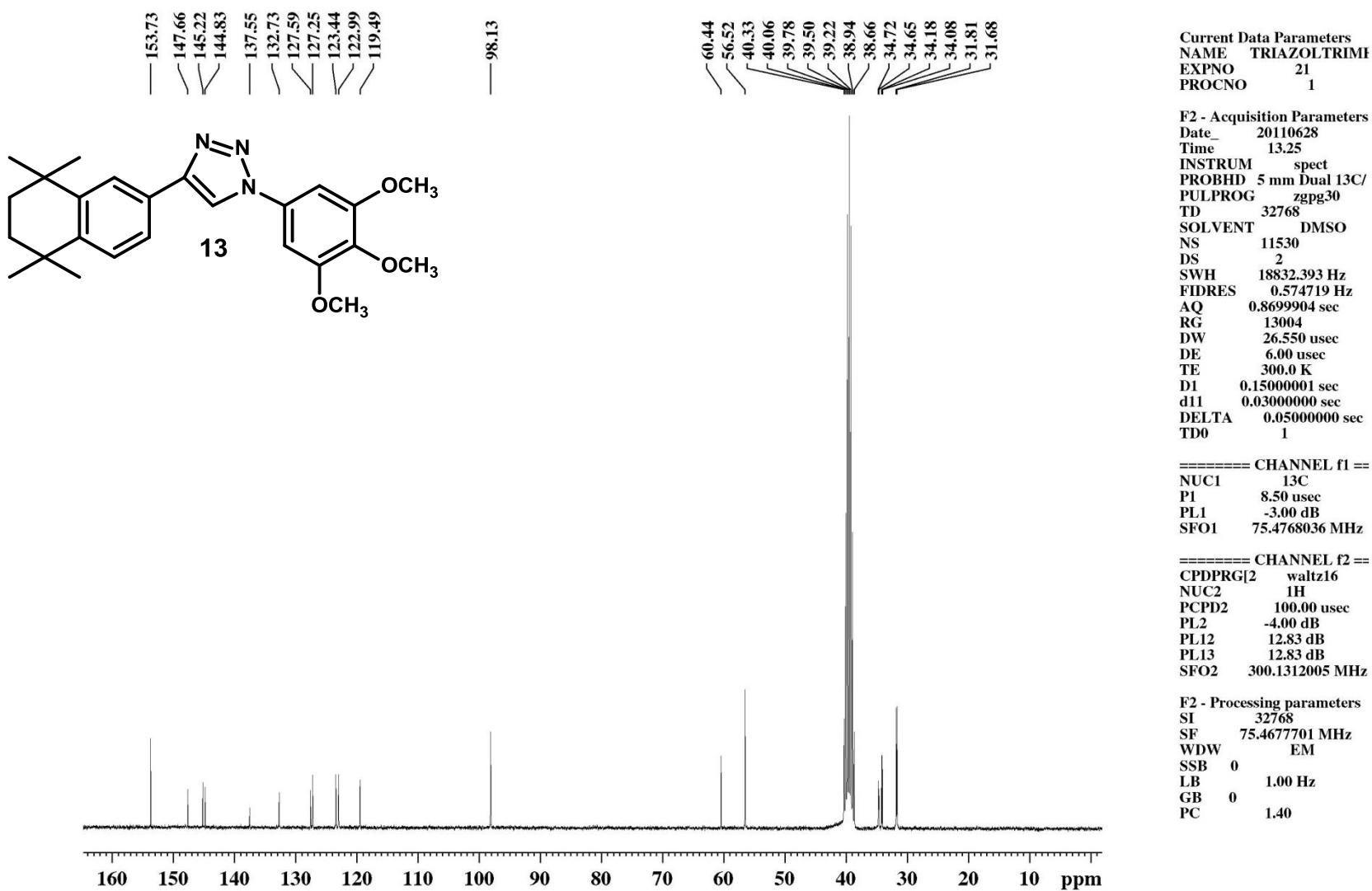
**Figure S11.**  $^1\text{H}$  NMR spectrum (300 MHz,  $\text{CDCl}_3$ ) of compound **12**.



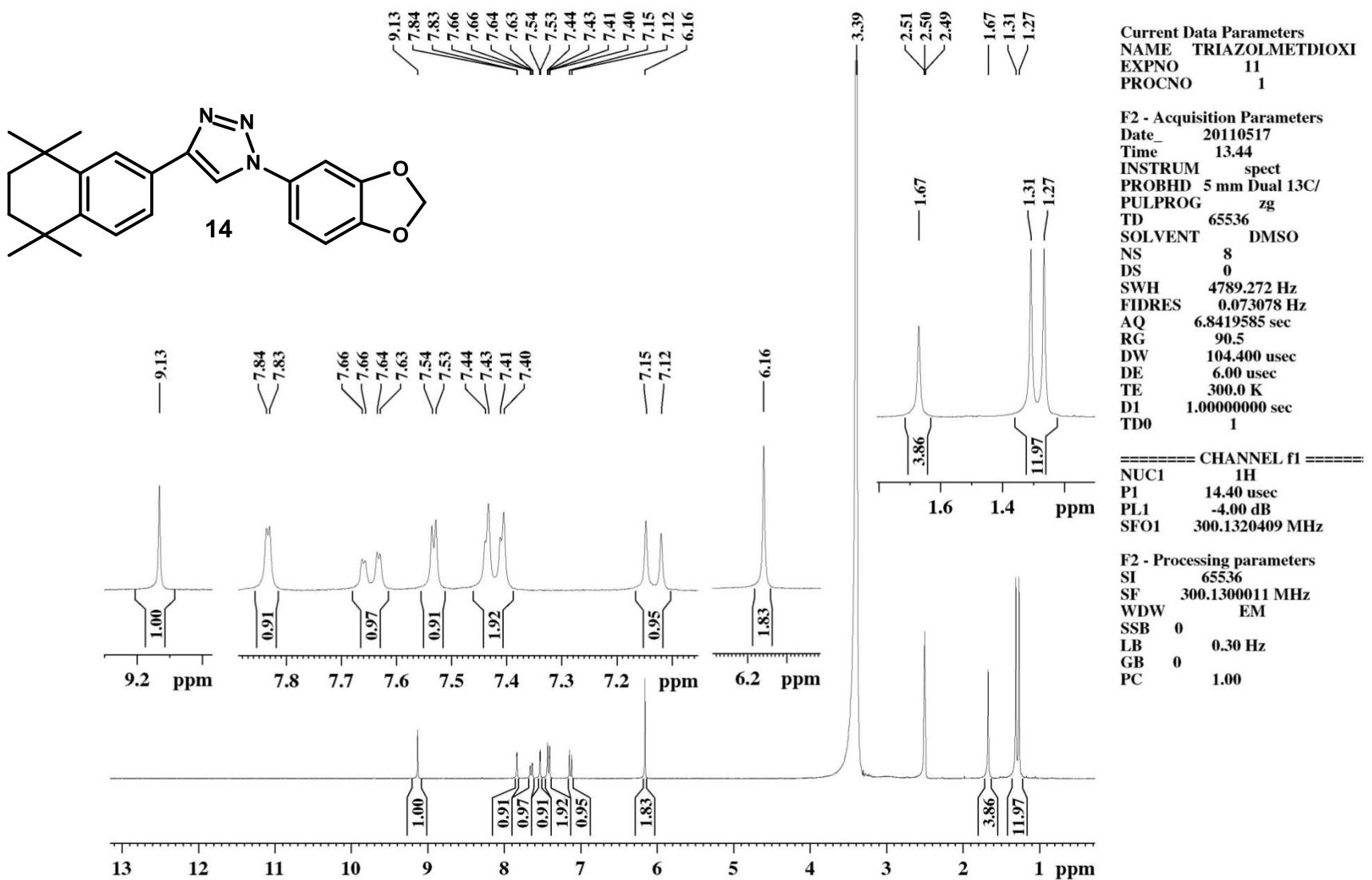
**Figure S12.**  $^{13}\text{C}$  NMR spectrum (75 MHz,  $\text{CDCl}_3$ ) of compound **12**.



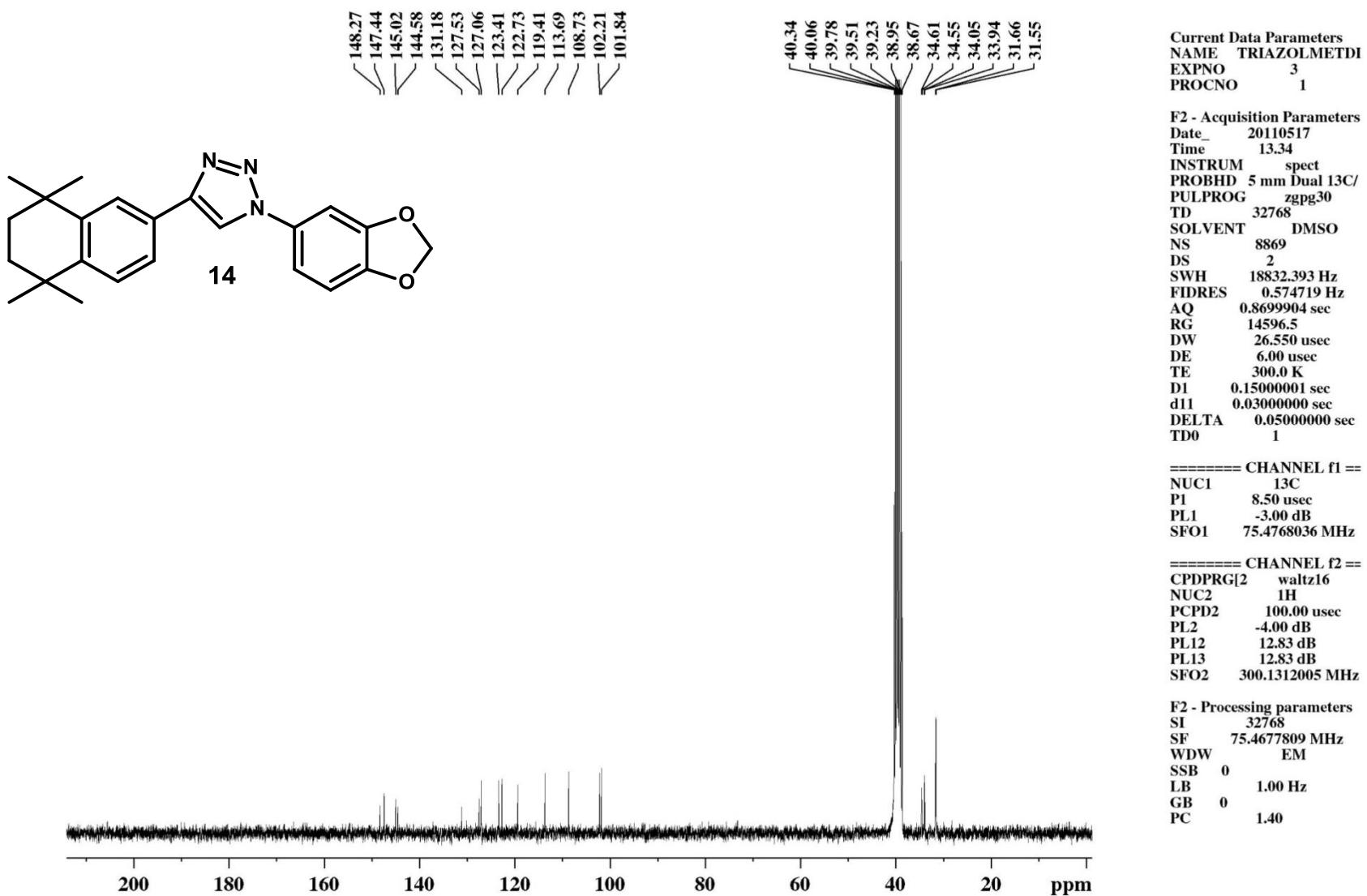
**Figure S13.**  $^1\text{H}$  NMR spectrum (300 MHz,  $\text{CDCl}_3$ ) of compound **13**.



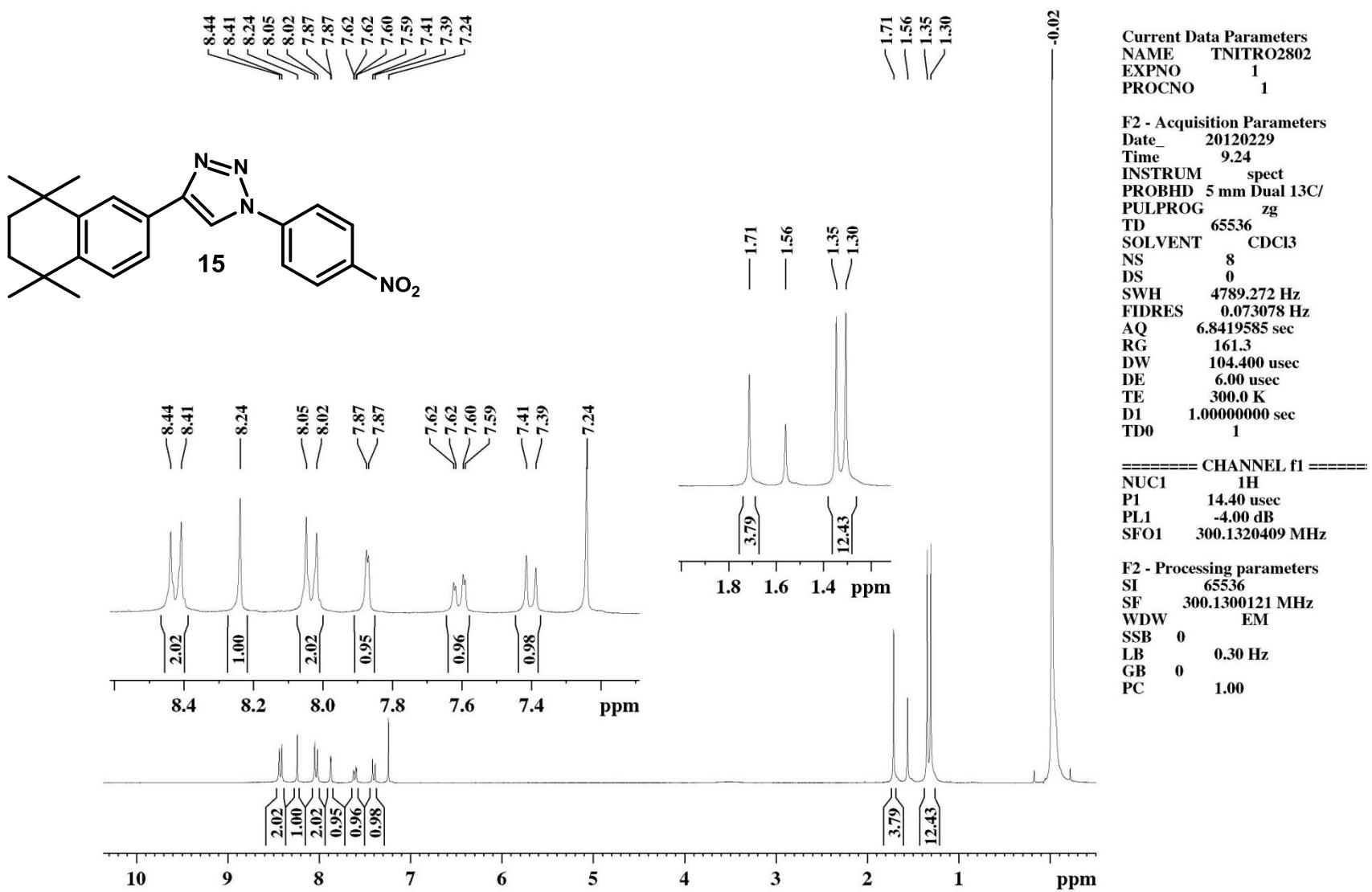
**Figure S14.**  $^{13}\text{C}$  NMR spectrum (75 MHz,  $\text{CDCl}_3$ ) of compound **13**.



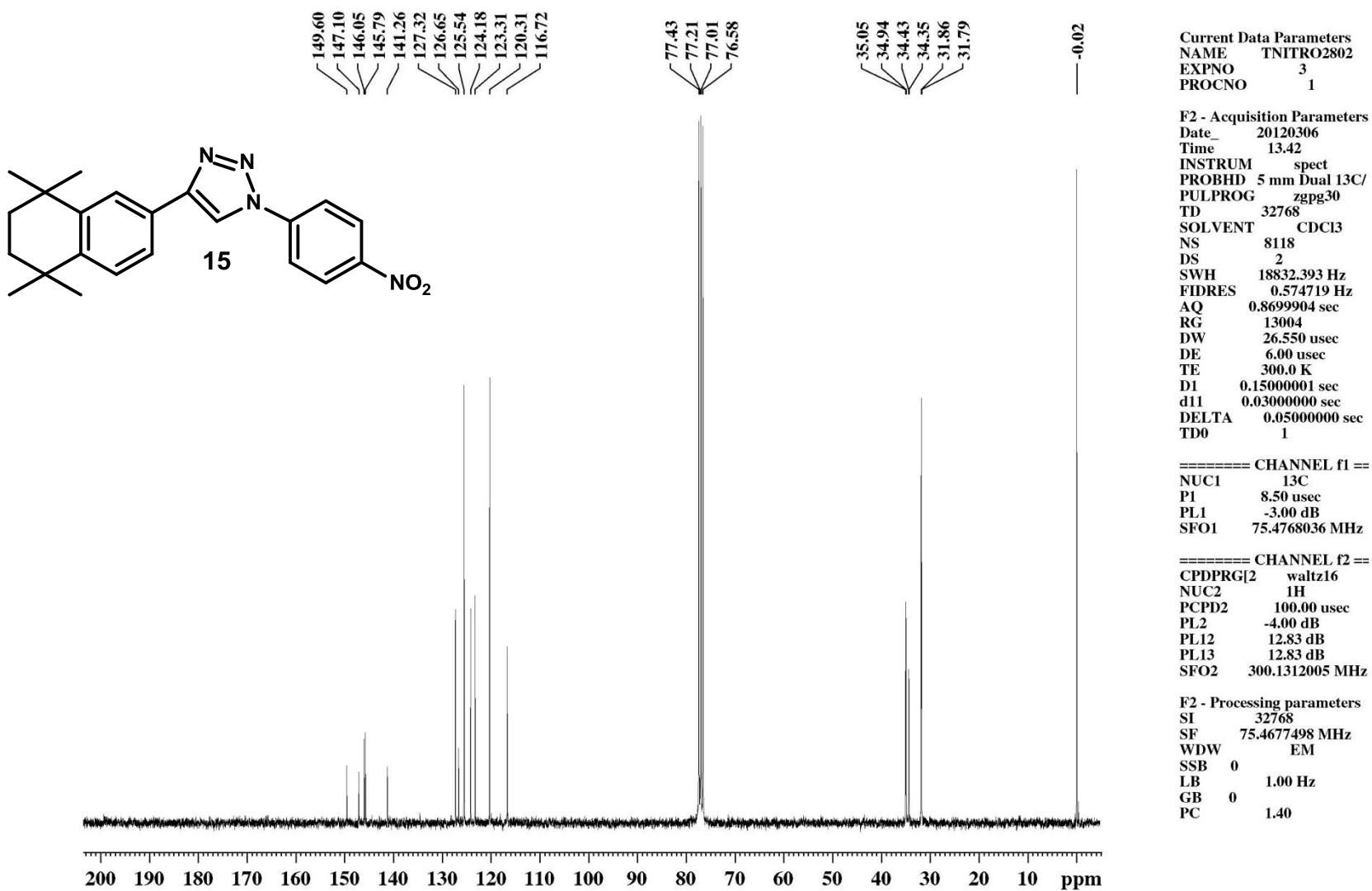
**Figure S15.**  $^1\text{H}$  NMR spectrum (300 MHz,  $\text{CDCl}_3$ ) of compound **14**.



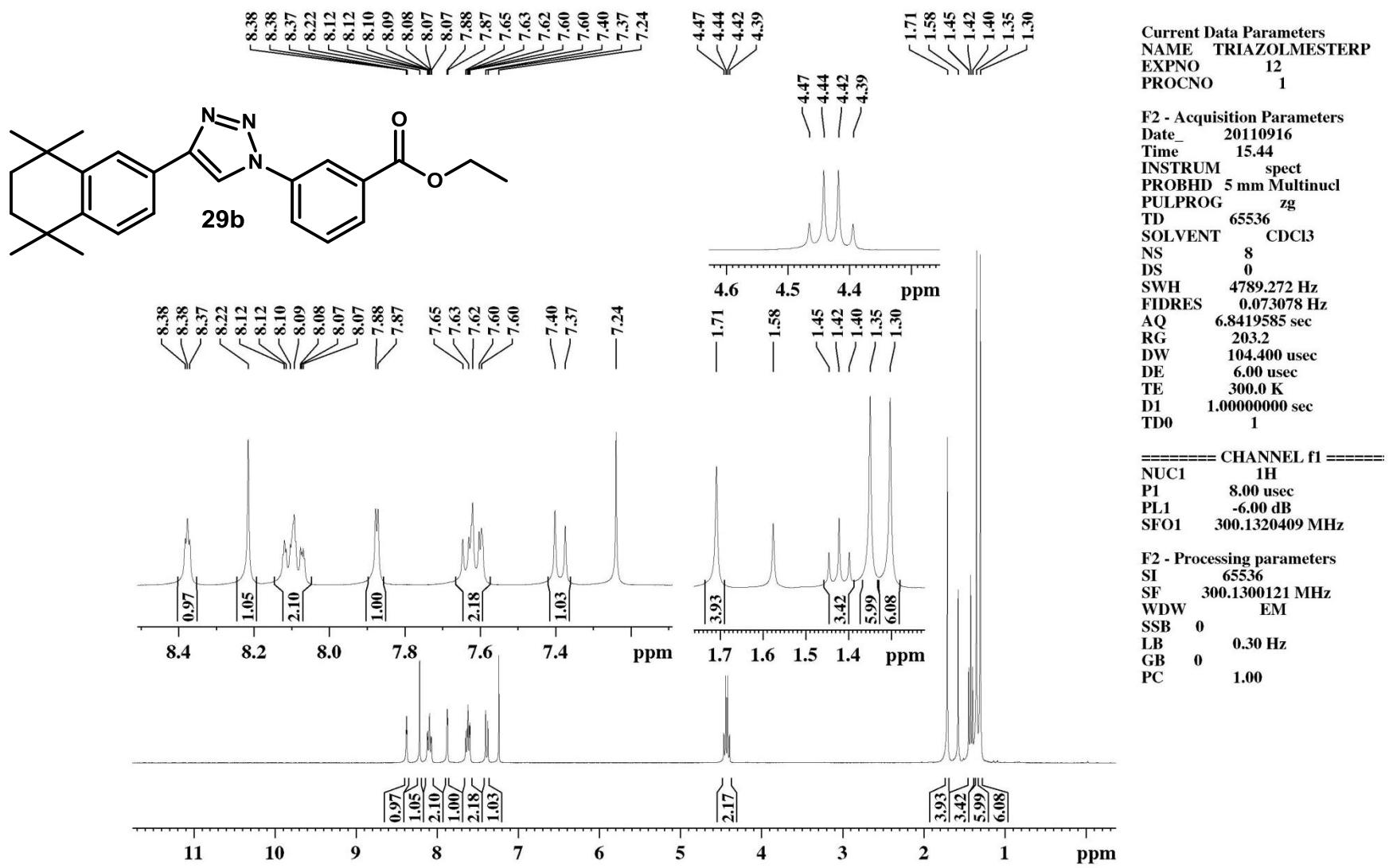
**Figure S16.**  $^{13}\text{C}$  NMR spectrum (75 MHz,  $\text{CDCl}_3$ ) of compound **14**.



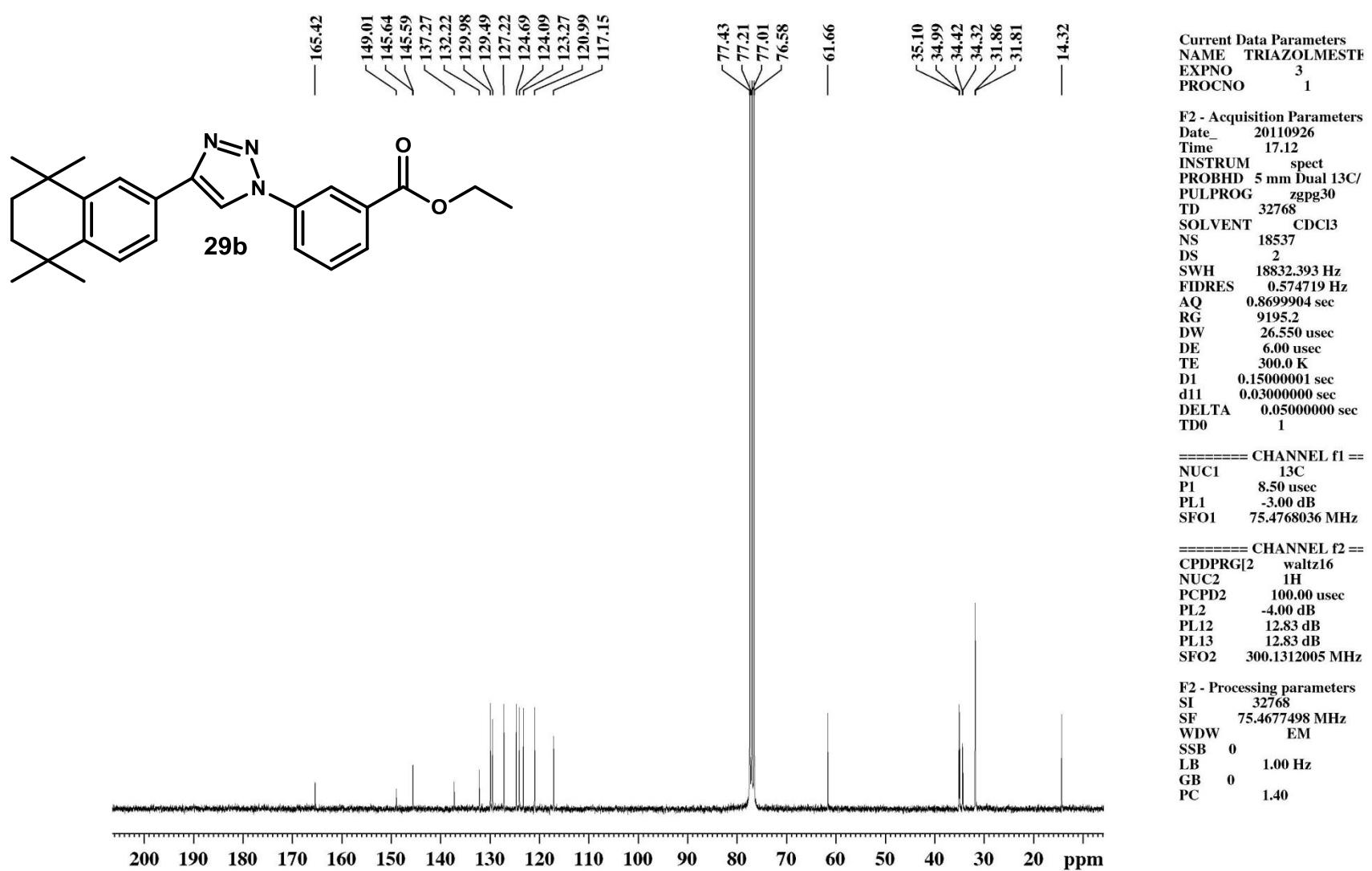
**Figure S17.** <sup>1</sup>H NMR spectrum (300 MHz, CDCl<sub>3</sub>) of compound **15**.



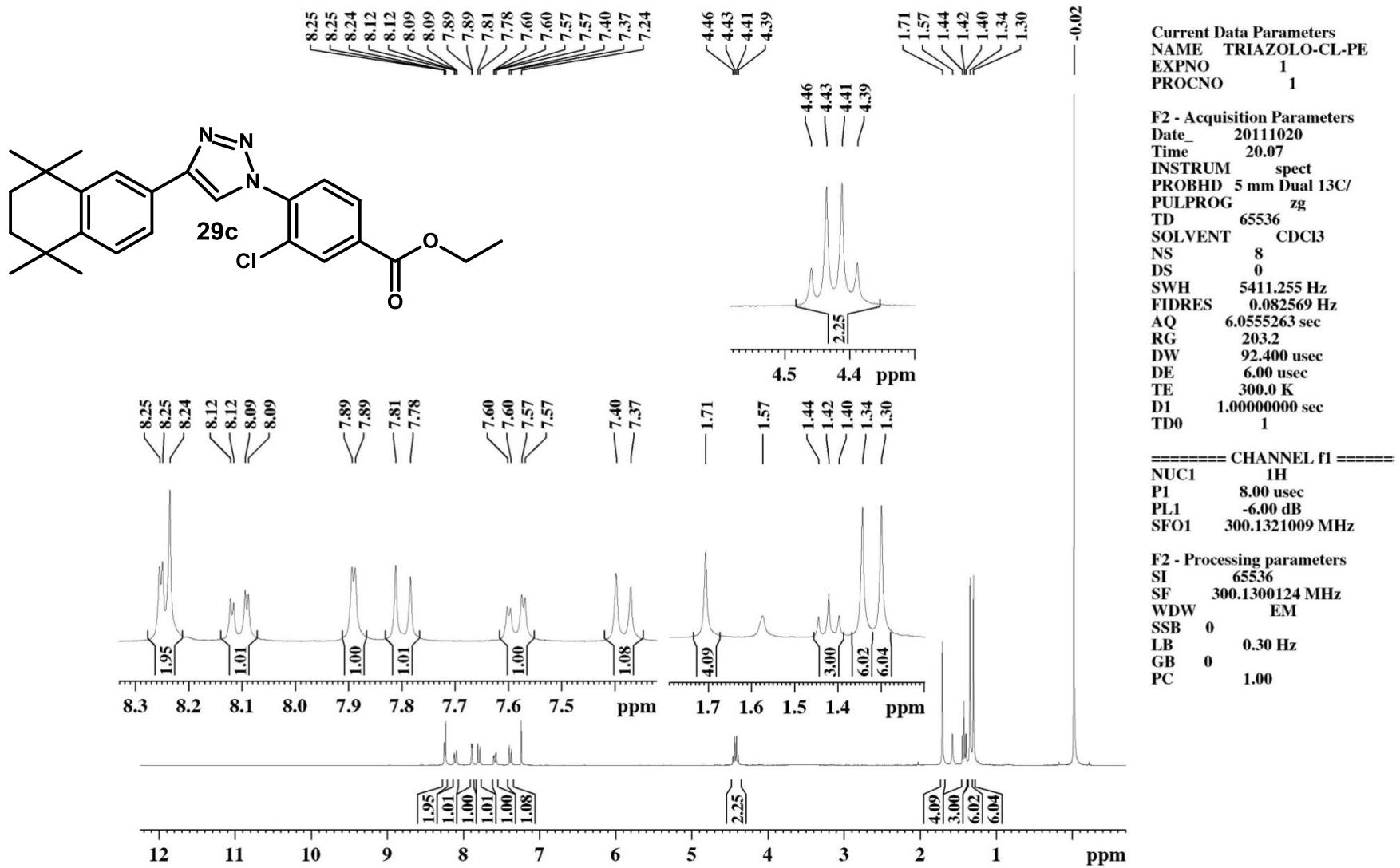
**Figure S18.** <sup>13</sup>C NMR spectrum (75 MHz, CDCl<sub>3</sub>) of compound **15**.



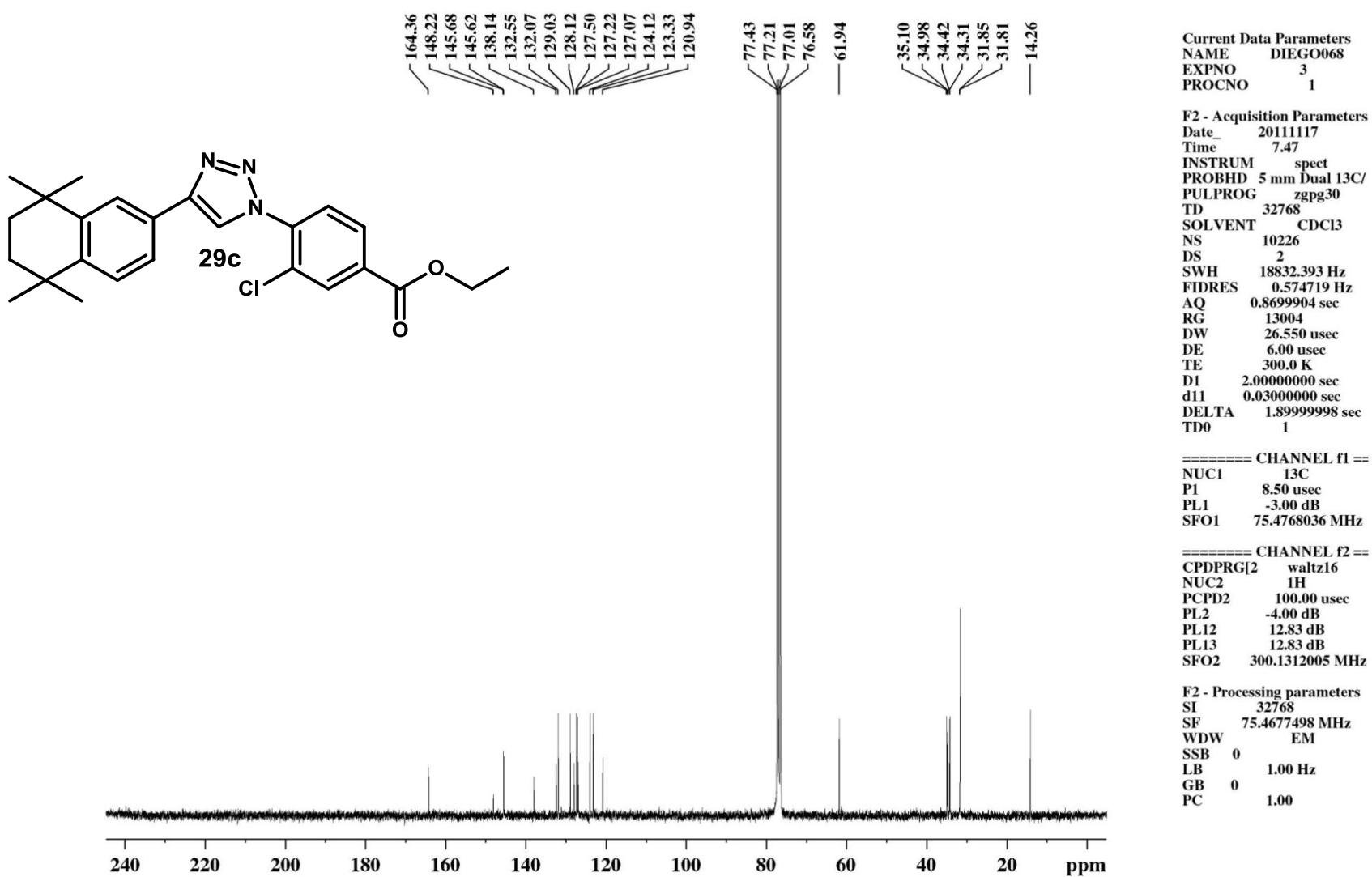
**Figure S19.**  $^1\text{H}$  NMR spectrum (300 MHz,  $\text{CDCl}_3$ ) of compound **29b**.



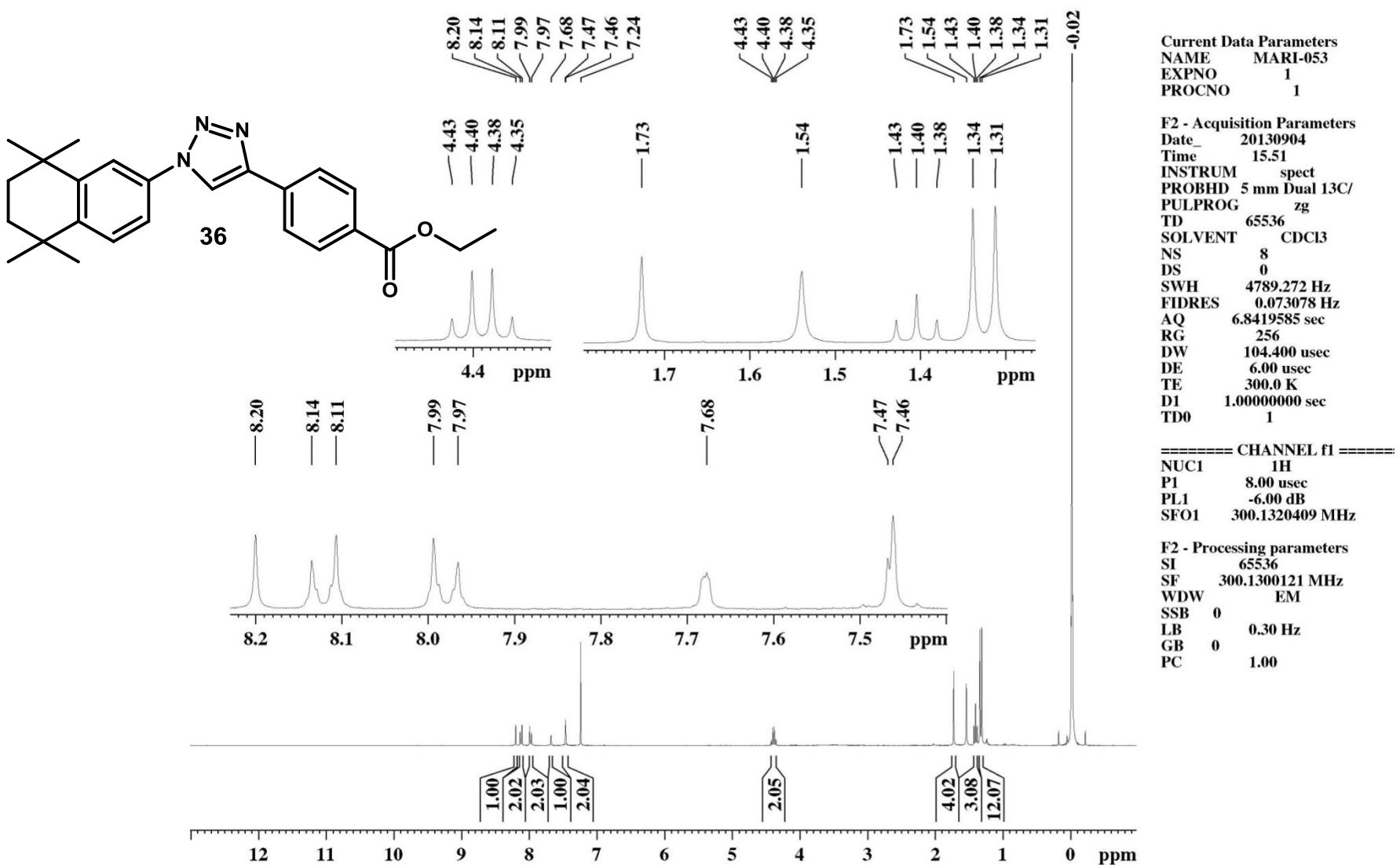
**Figure S20.** <sup>13</sup>C NMR spectrum (75 MHz, CDCl<sub>3</sub>) of compound 29b.



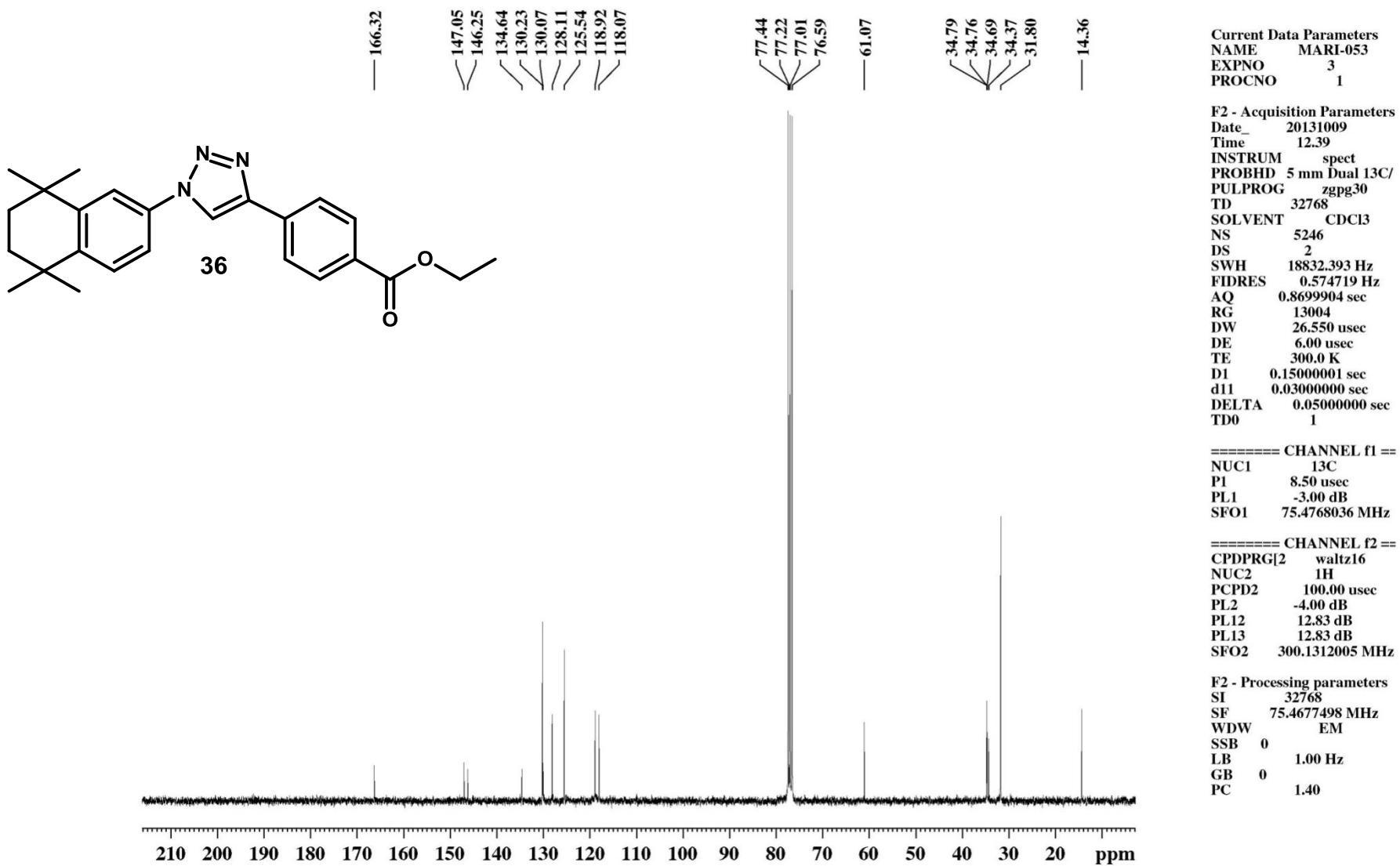
**Figure S21.** <sup>1</sup>H NMR spectrum (300 MHz, CDCl<sub>3</sub>) of compound **29c**.



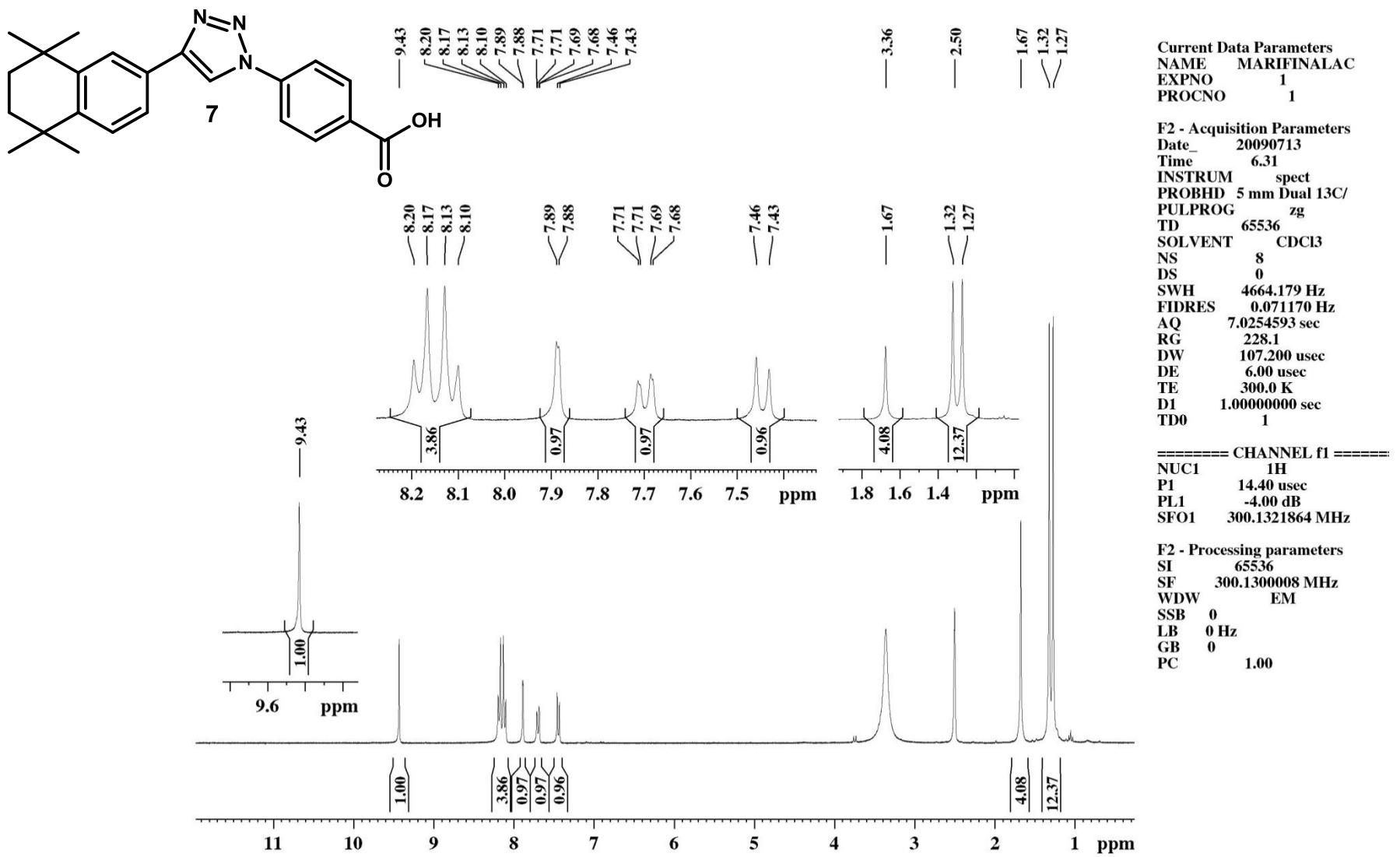
**Figure S22.**  $^{13}\text{C}$  NMR spectrum (75 MHz,  $\text{CDCl}_3$ ) of compound **29c**.



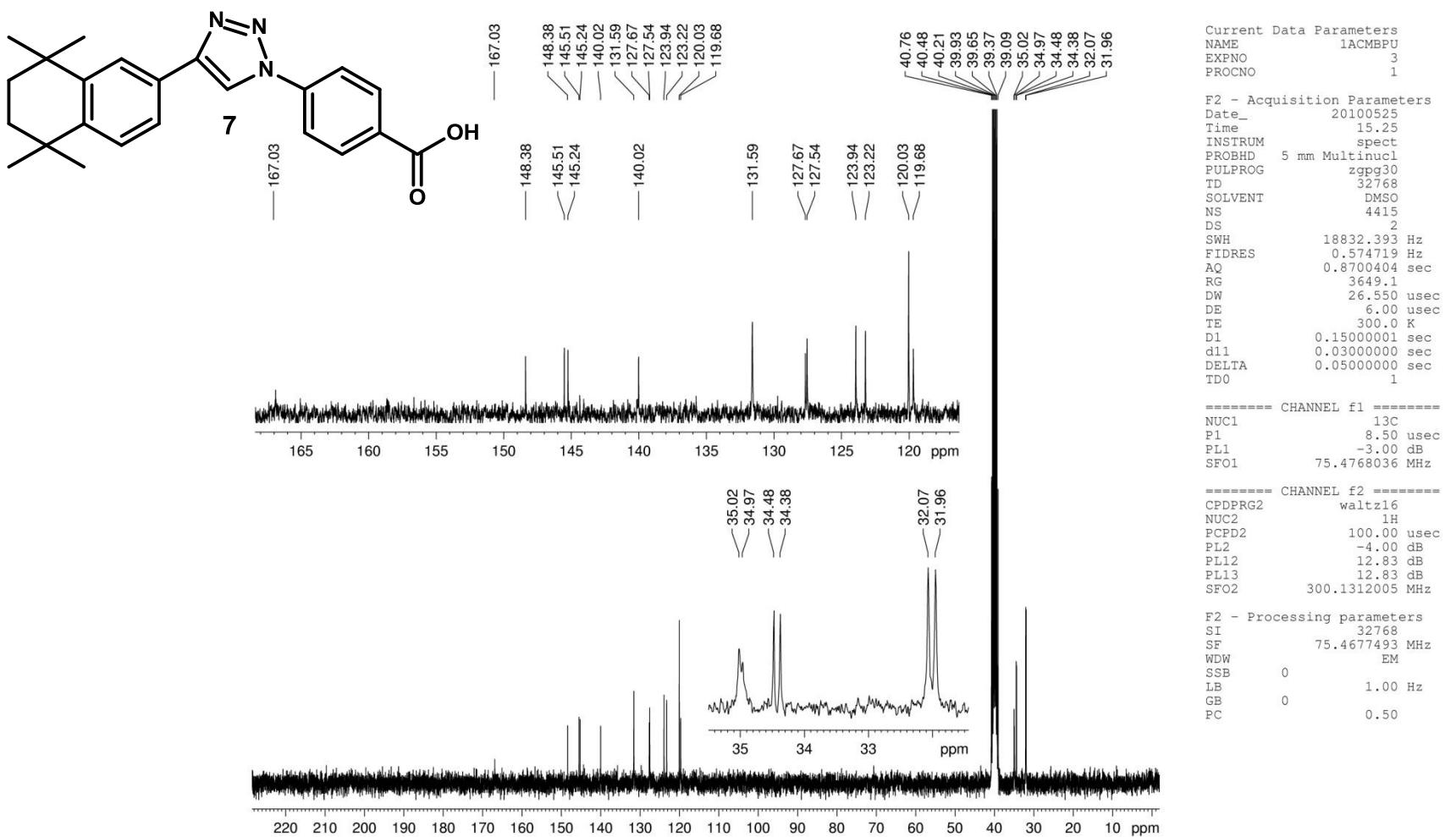
**Figure S23.** <sup>1</sup>H NMR spectrum (300 MHz, CDCl<sub>3</sub>) of compound **36**.



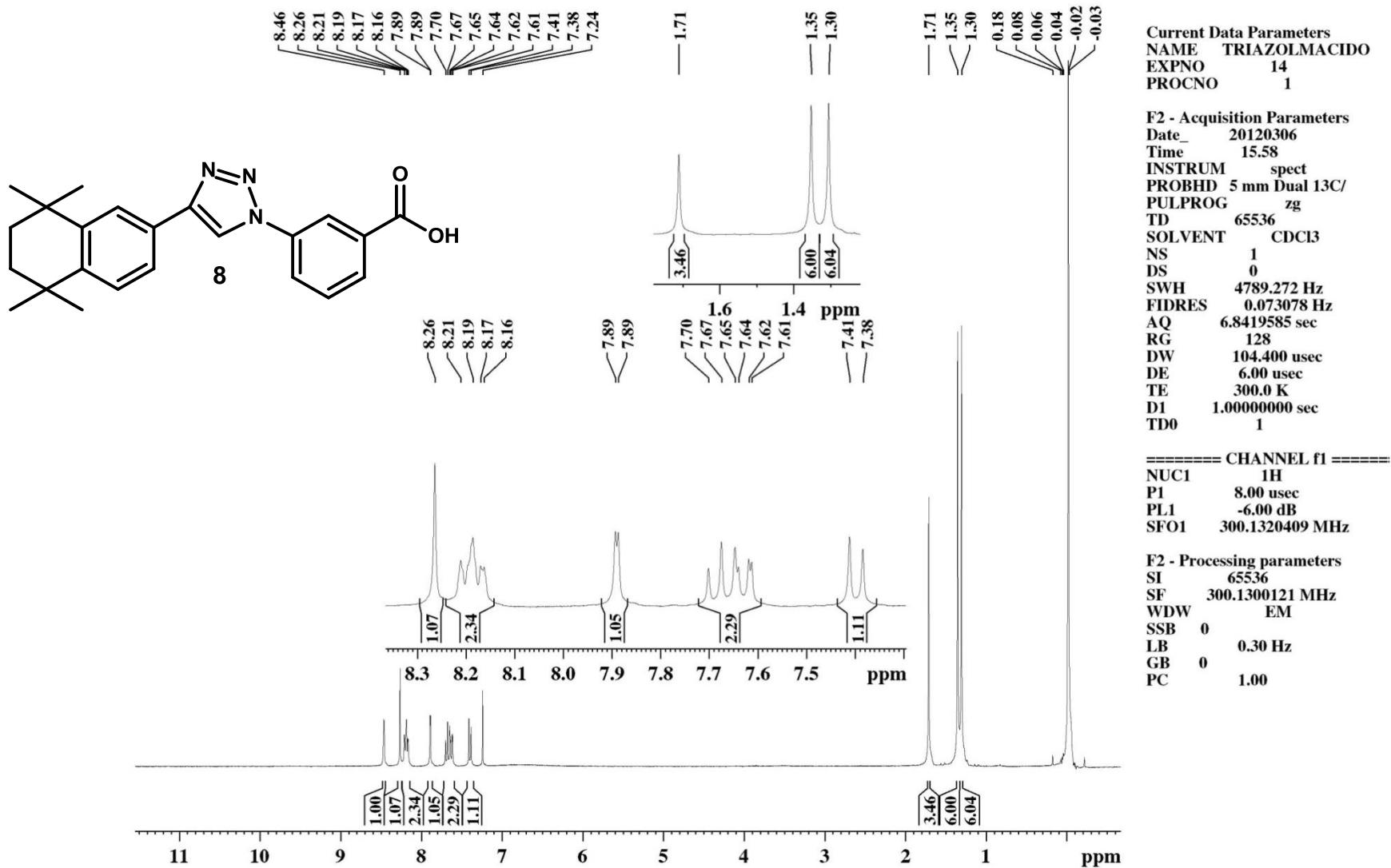
**Figure S24.**  $^{13}\text{C}$  NMR spectrum (75 MHz,  $\text{CDCl}_3$ ) of compound **36**.



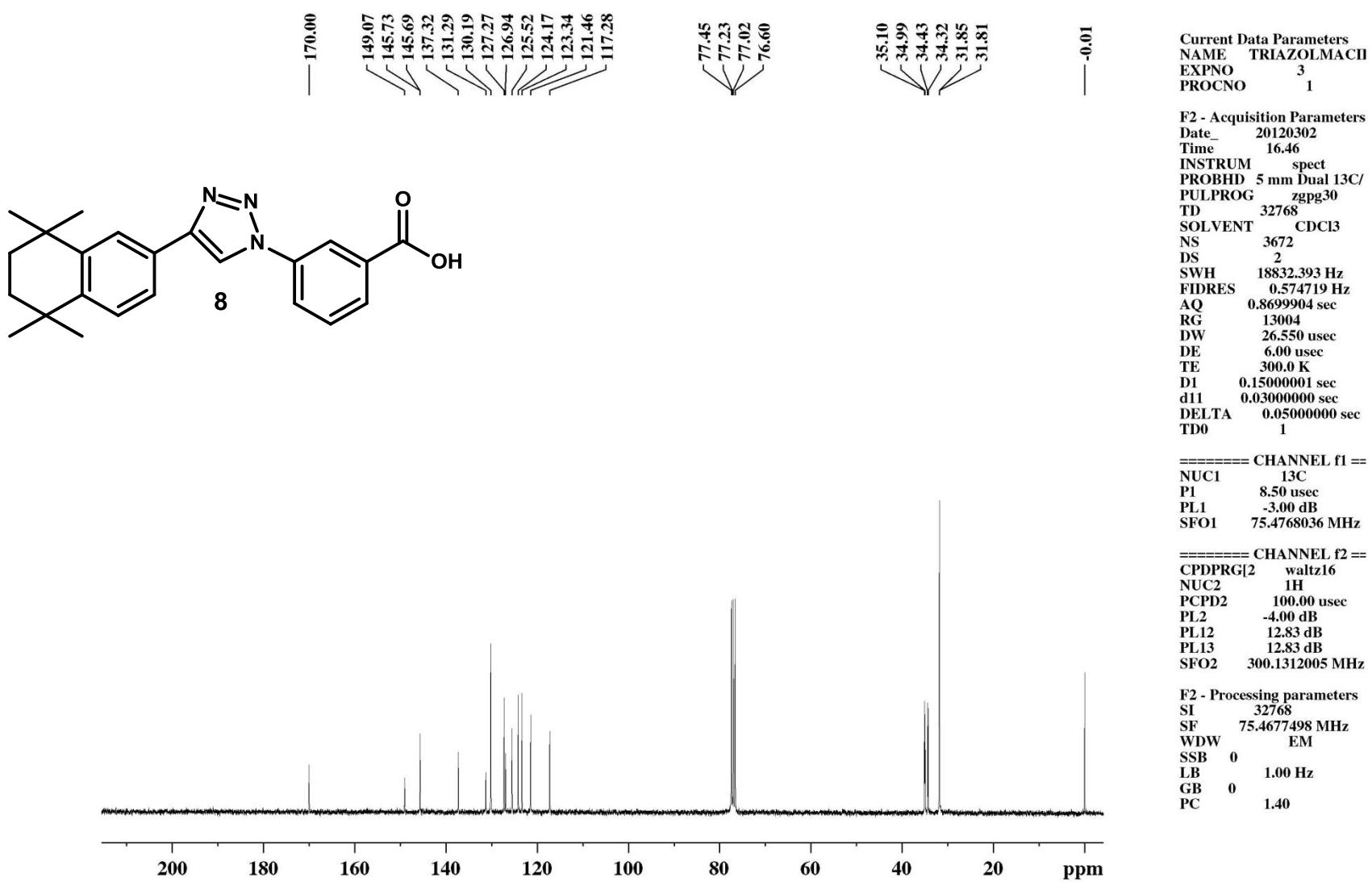
**Figure S25.** <sup>1</sup>H NMR spectrum (300 MHz, CDCl<sub>3</sub>) of compound 7.



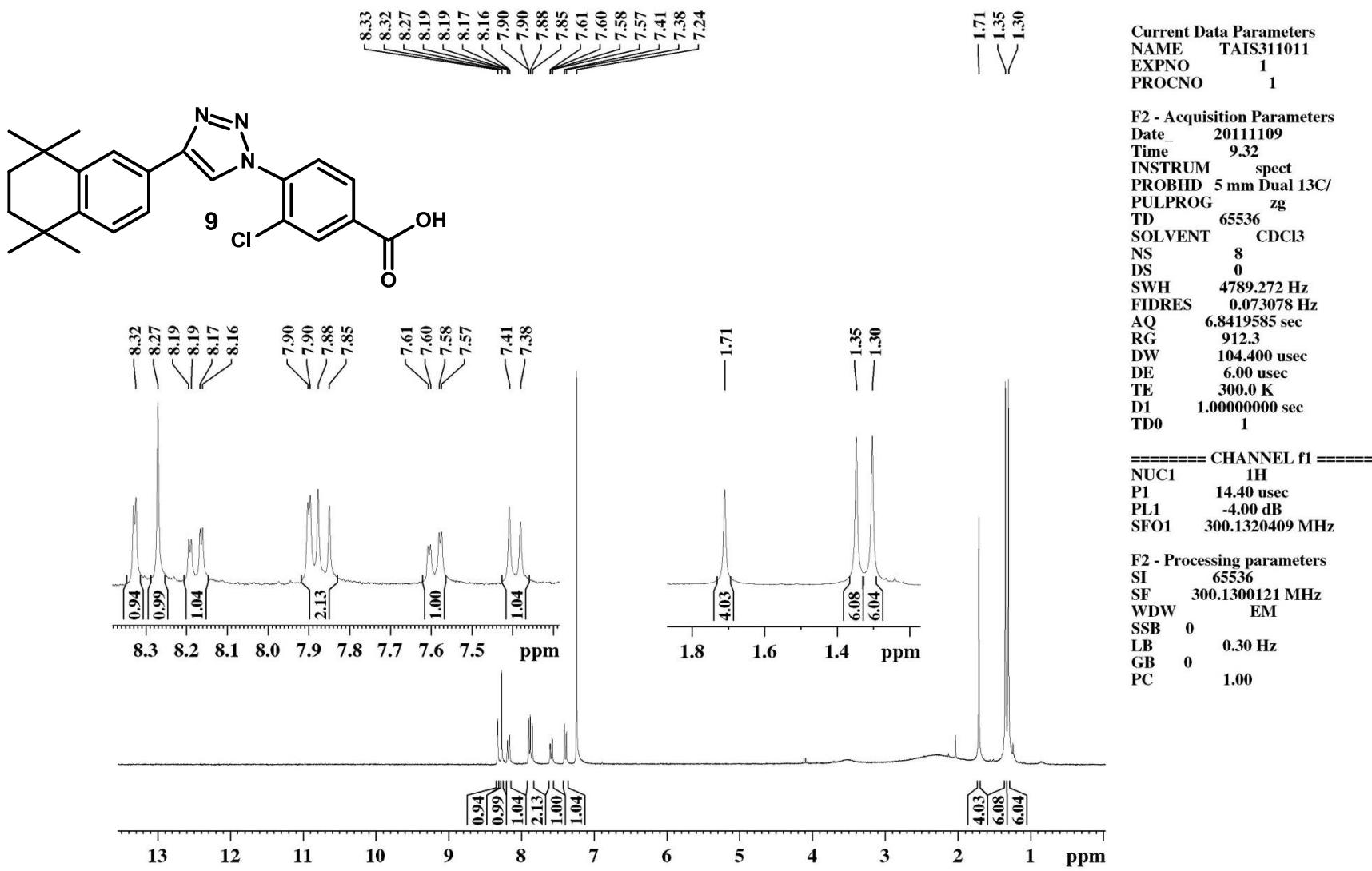
**Figure S26.**  $^{13}\text{C}$  NMR spectrum (75 MHz,  $\text{CDCl}_3$ ) of compound 7.



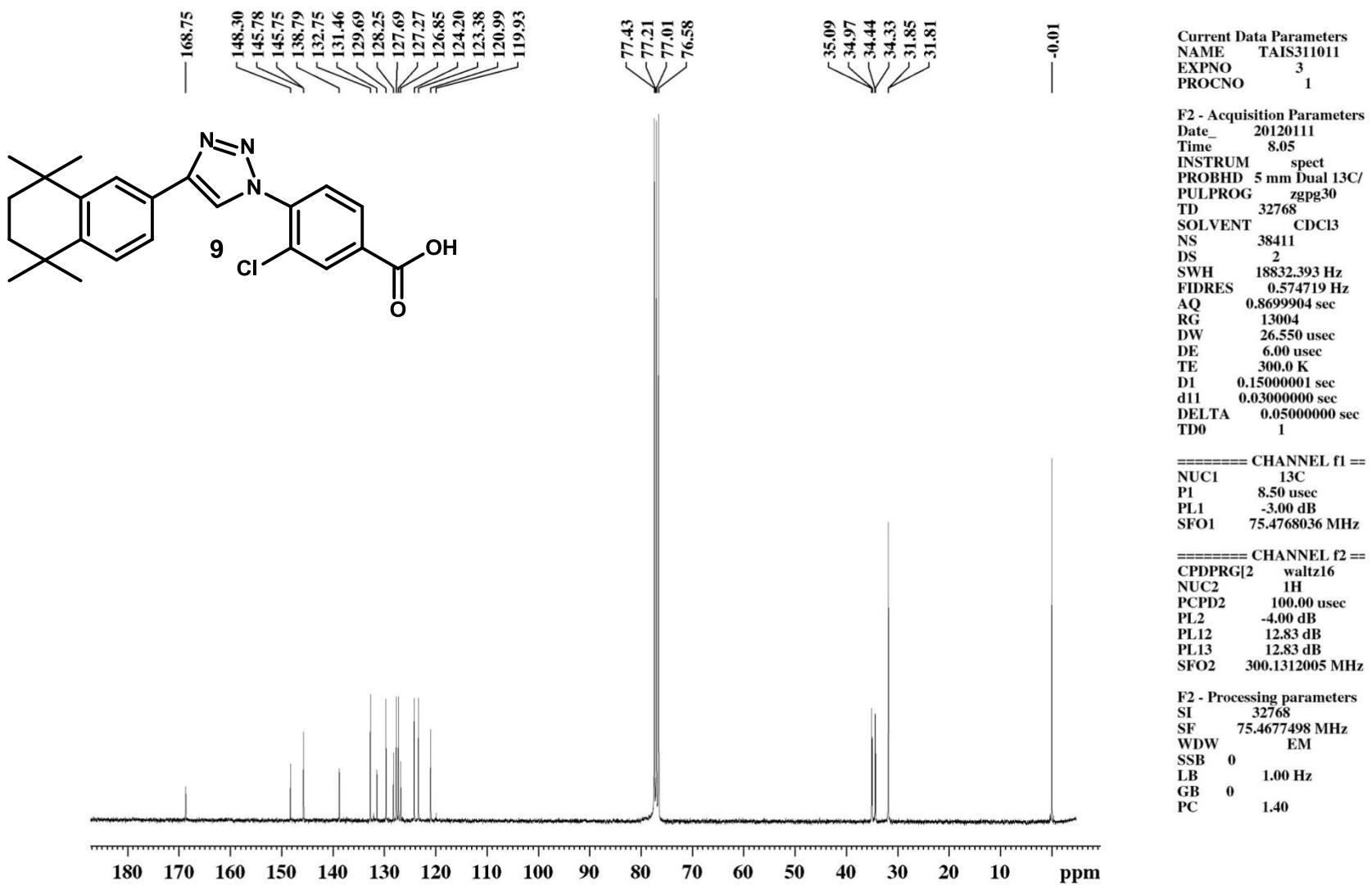
**Figure S27.**  $^1\text{H}$  NMR spectrum (300 MHz,  $\text{CDCl}_3$ ) of compound 8.



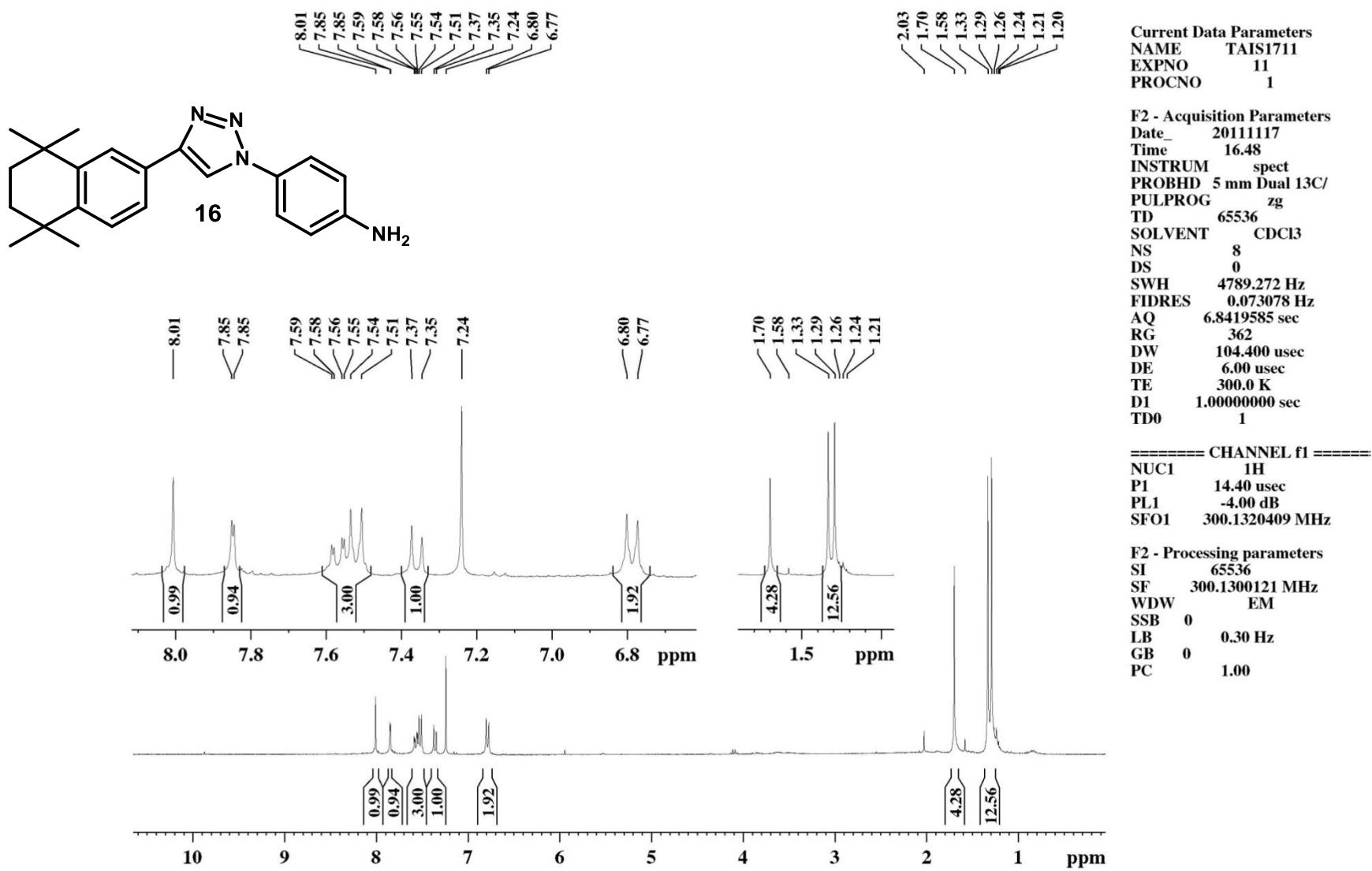
**Figure S28.** <sup>13</sup>C NMR spectrum (75 MHz, CDCl<sub>3</sub>) of compound 8.



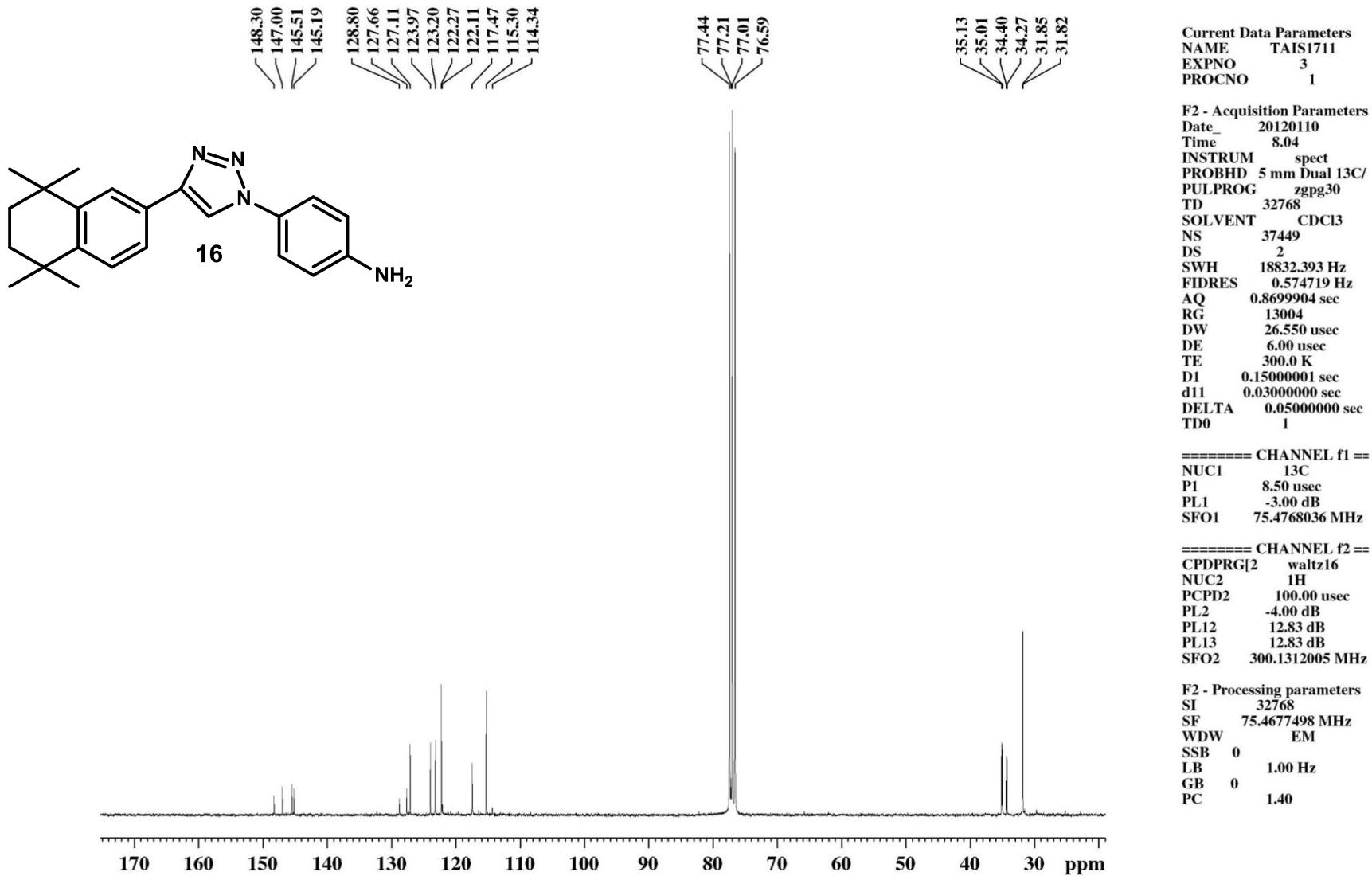
**Figure S29.**  $^1\text{H}$  NMR spectrum (300 MHz,  $\text{CDCl}_3$ ) of compound 9.



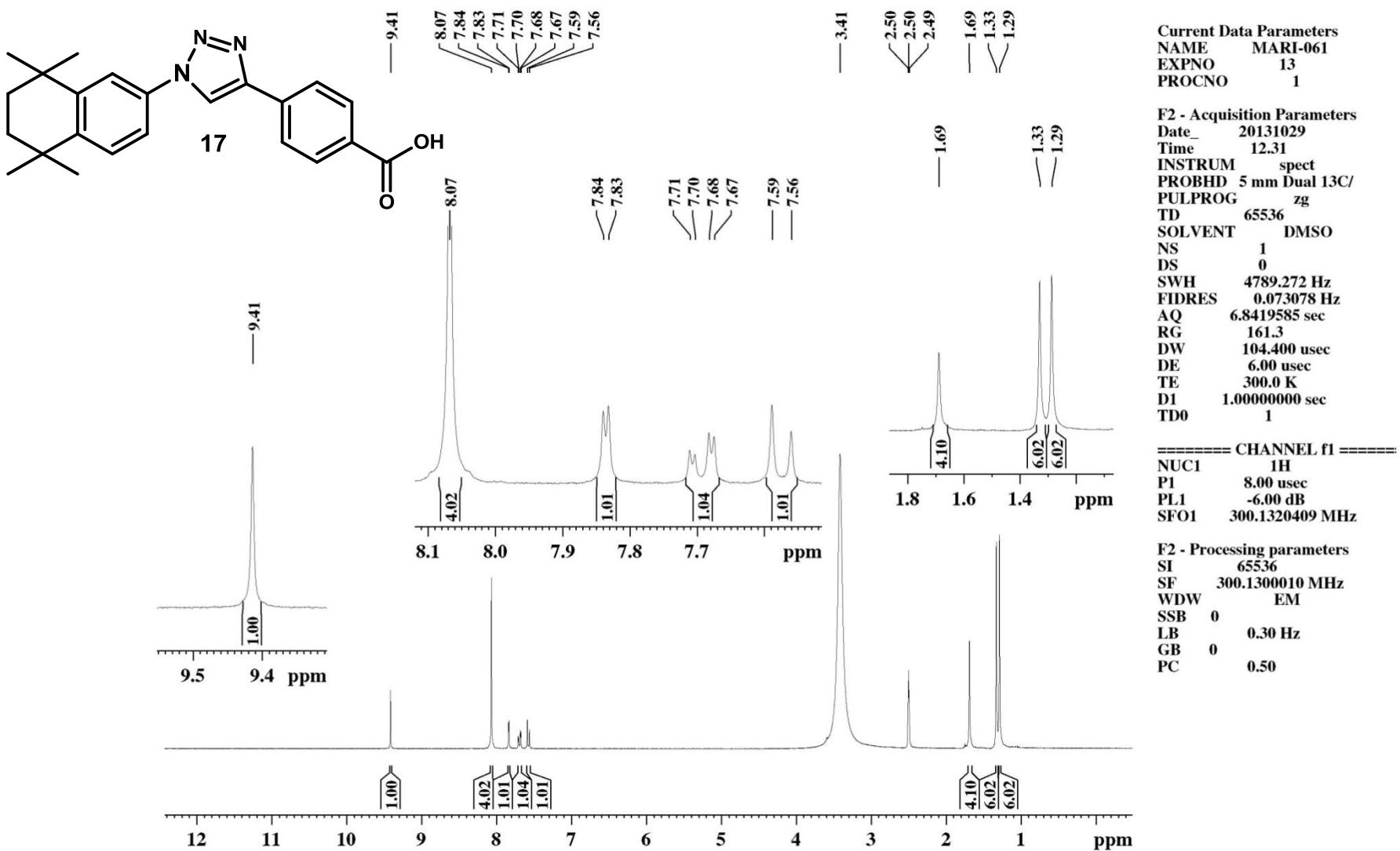
**Figure S30.** <sup>13</sup>C NMR spectrum (75 MHz, CDCl<sub>3</sub>) of compound 9.



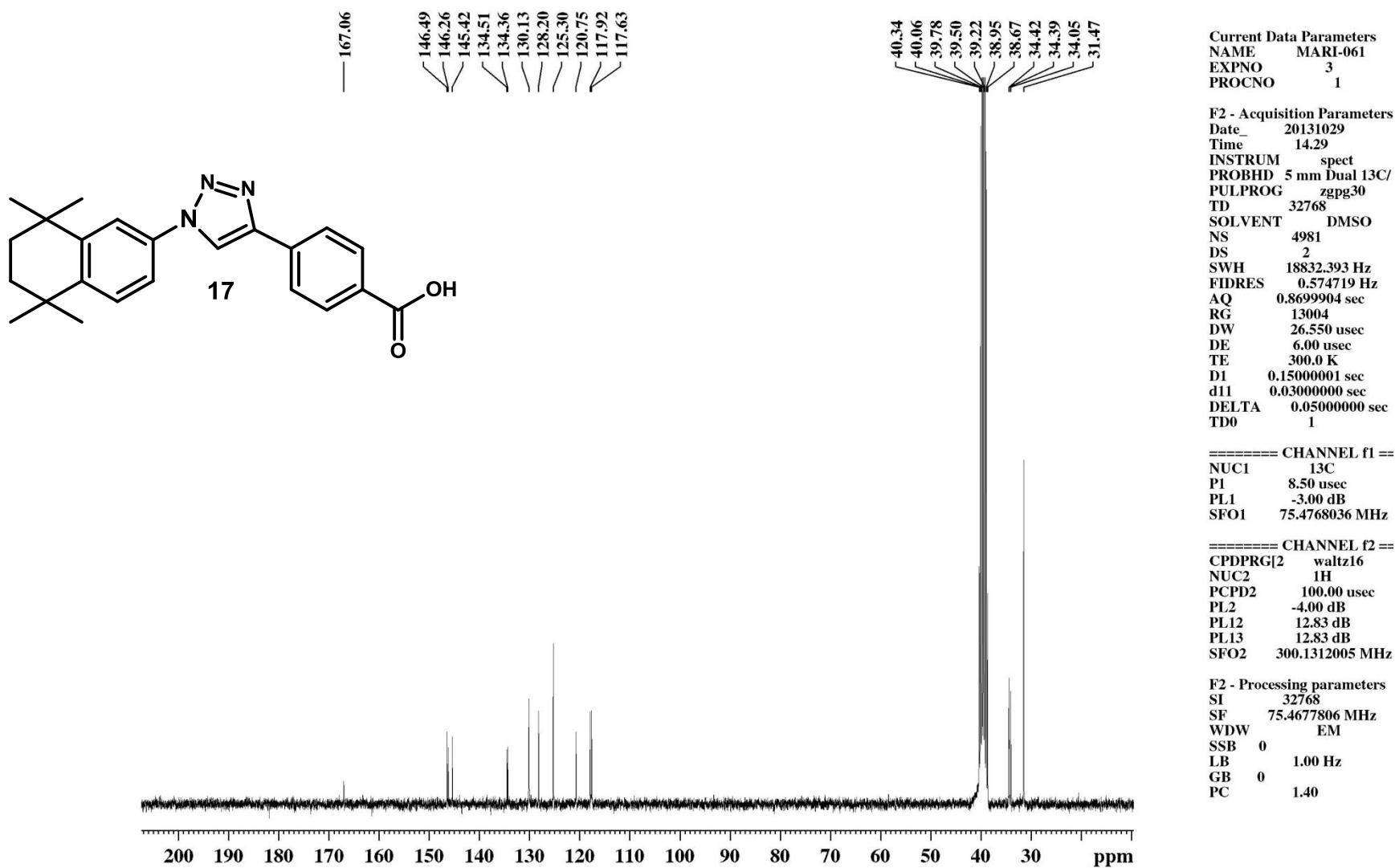
**Figure S31.** <sup>1</sup>H NMR spectrum (300 MHz, CDCl<sub>3</sub>) of compound **16**.



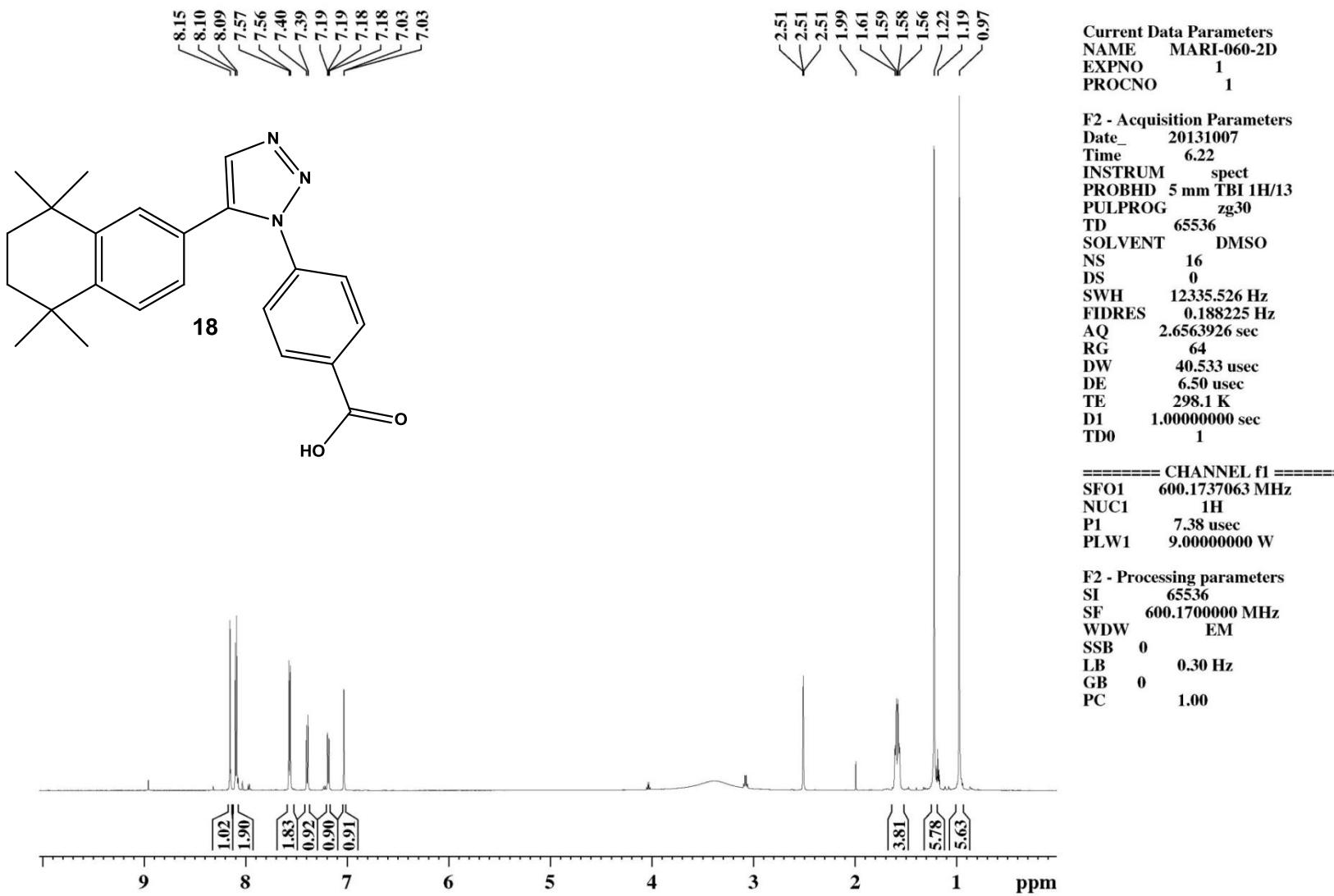
**Figure S32.** <sup>13</sup>C NMR spectrum (75 MHz, CDCl<sub>3</sub>) of compound **16**.



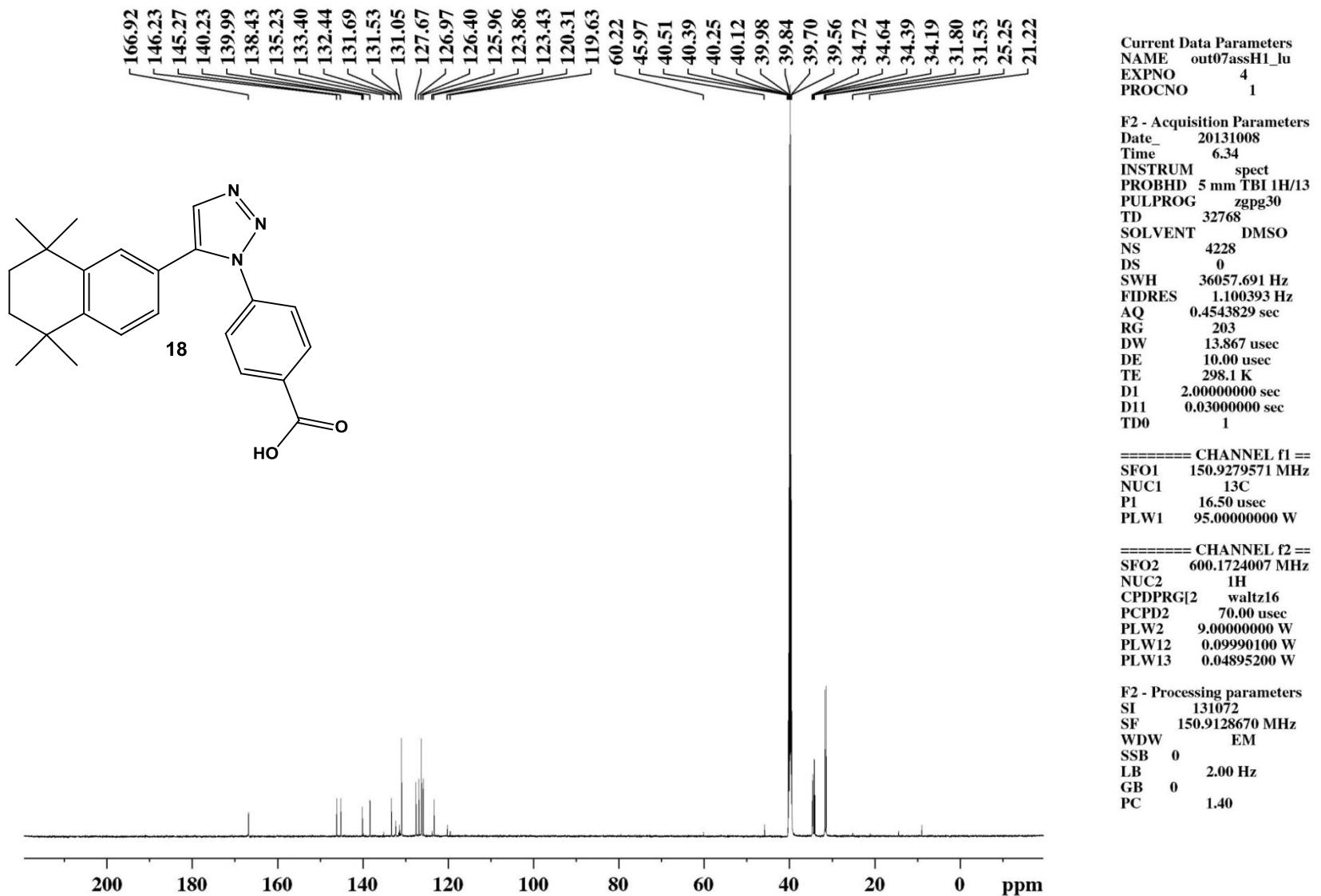
**Figure S33.**  $^1\text{H}$  NMR spectrum (300 MHz,  $\text{CDCl}_3$ ) of compound 17.



**Figure S34.**  $^{13}\text{C}$  NMR spectrum (75 MHz, CDCl<sub>3</sub>) of compound **17**.



**Figure S35.**  $^{13}\text{C}$  NMR spectrum (75 MHz,  $\text{CDCl}_3$ ) of compound **18**.



**Figure S36.**  $^{13}\text{C}$  NMR spectrum (75 MHz,  $\text{CDCl}_3$ ) of compound **18**.