

## **Synthesis, structure and properties of [1,2,4]triazolo[4,3-a]pyridin-3-ylidene Rhodium and Palladium complexes**

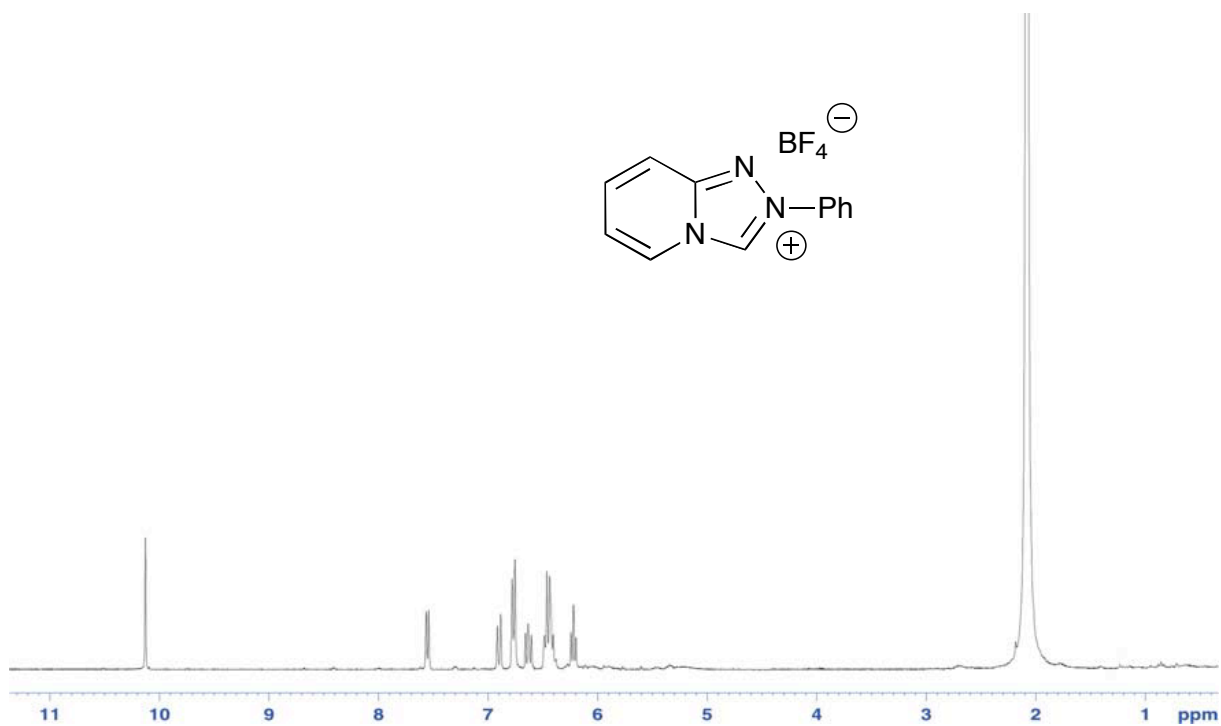
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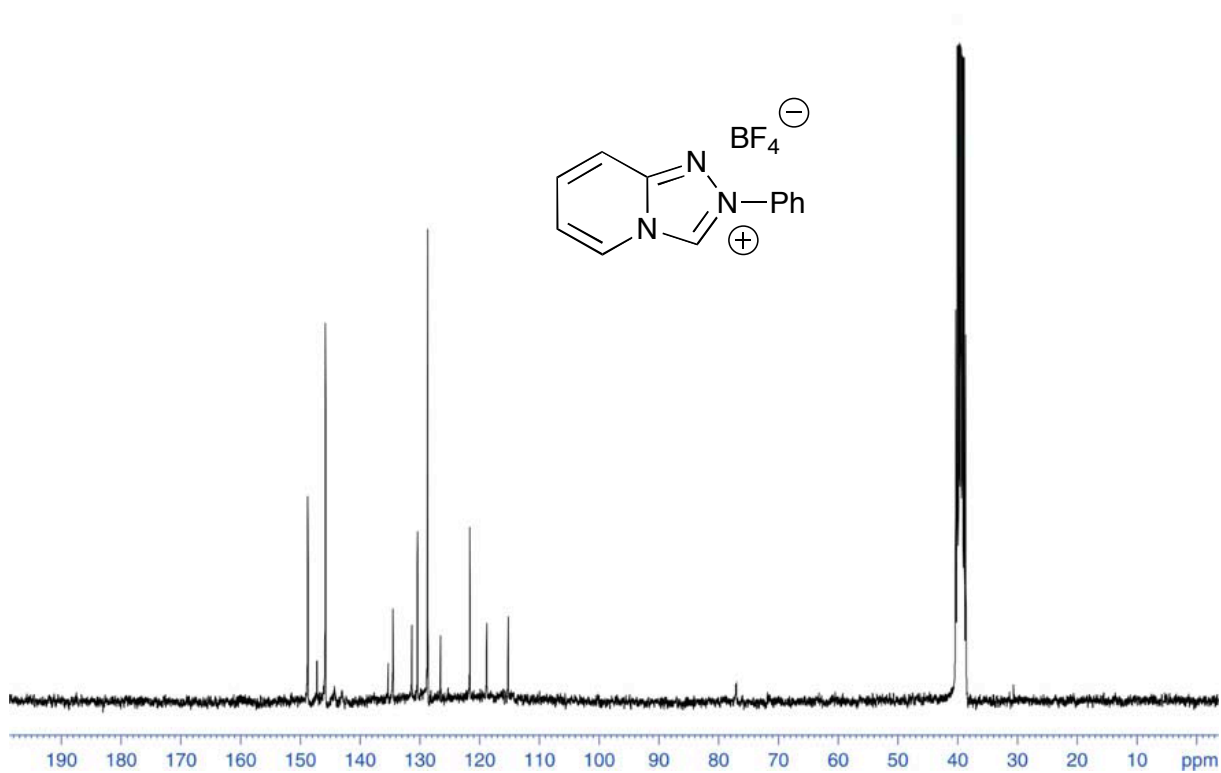
<sup>b</sup> *Instituto de Investigaciones Químicas, CSIC-USC, c/ Américo Vespucio 49, Isla de la Cartuja, 41092 Seville, Spain.*

**ELECTRONIC SUPPLEMENTARY INFORMATION (ESI)**

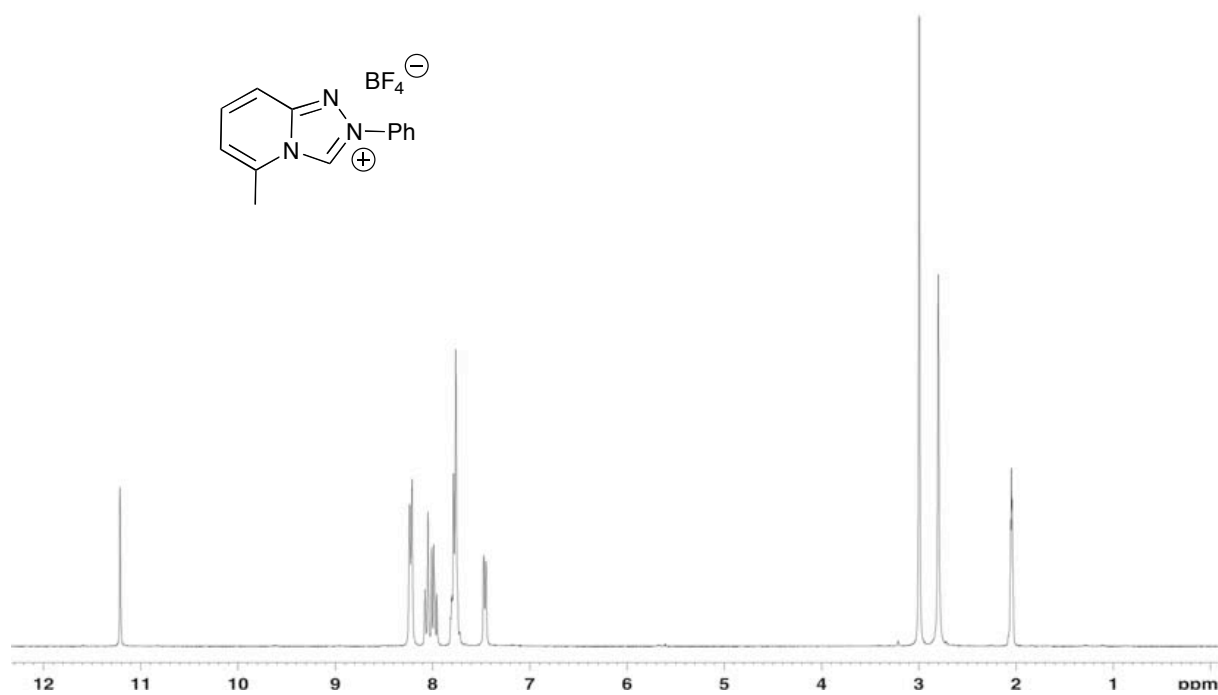
$^1\text{H}$  NMR  $[(\text{CD}_3)_2\text{SO}, 300 \text{ MHz}]$  of **5**



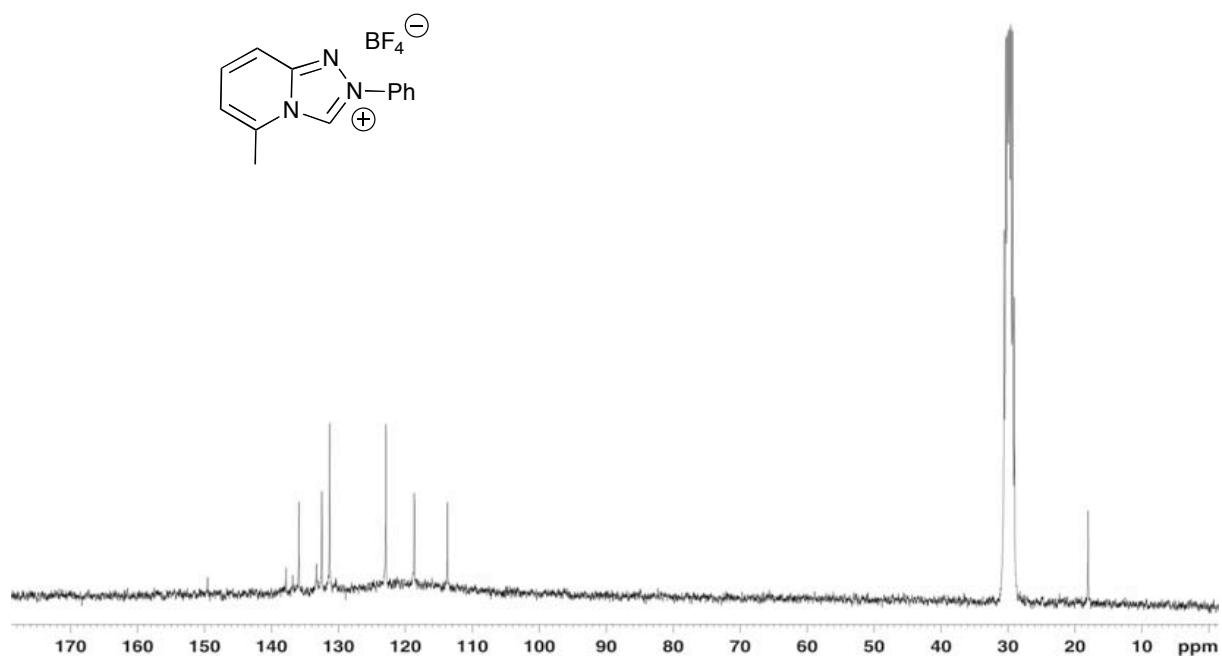
$^{13}\text{C}$  NMR  $[(\text{CD}_3)_2\text{SO}, 75 \text{ MHz}]$  of **5**



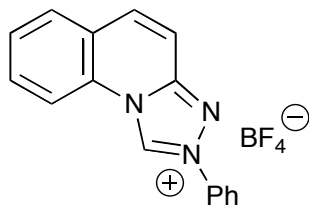
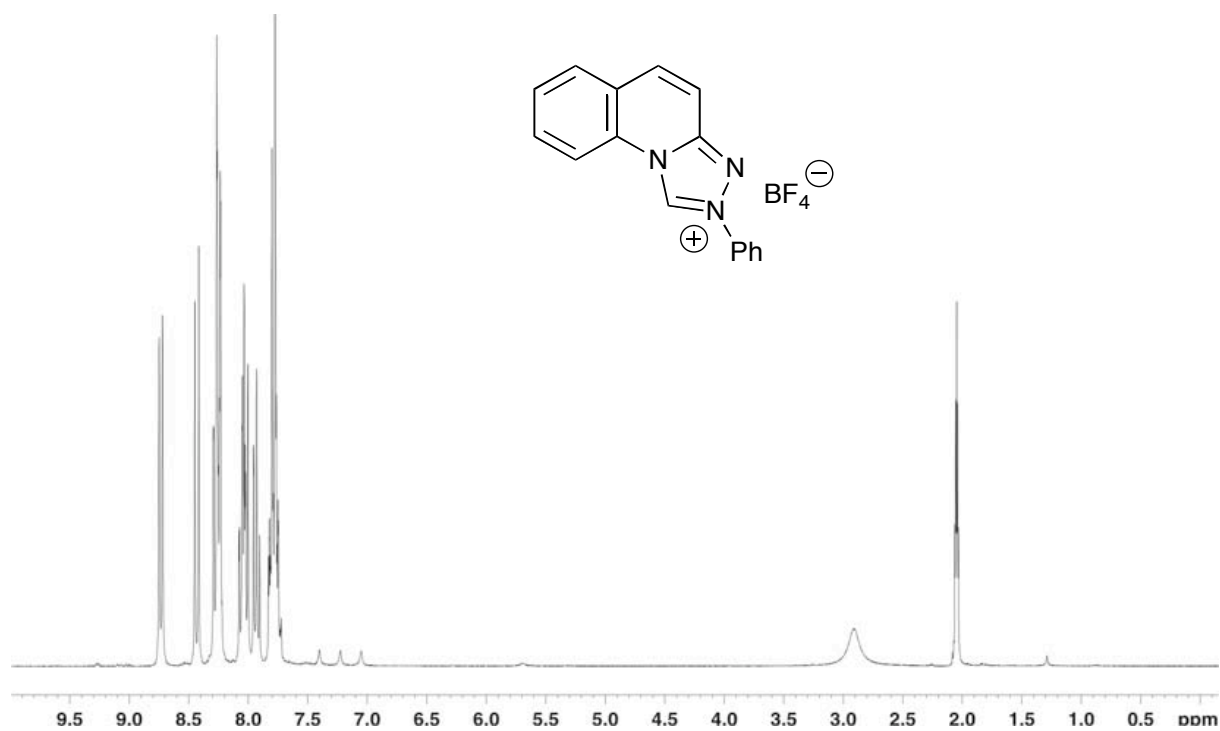
$^1\text{H}$  NMR  $[(\text{CD}_3)_2\text{CO}, 300 \text{ MHz}]$  of **6**



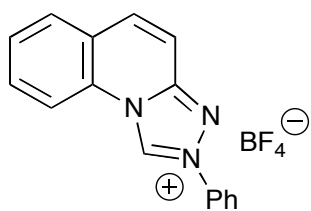
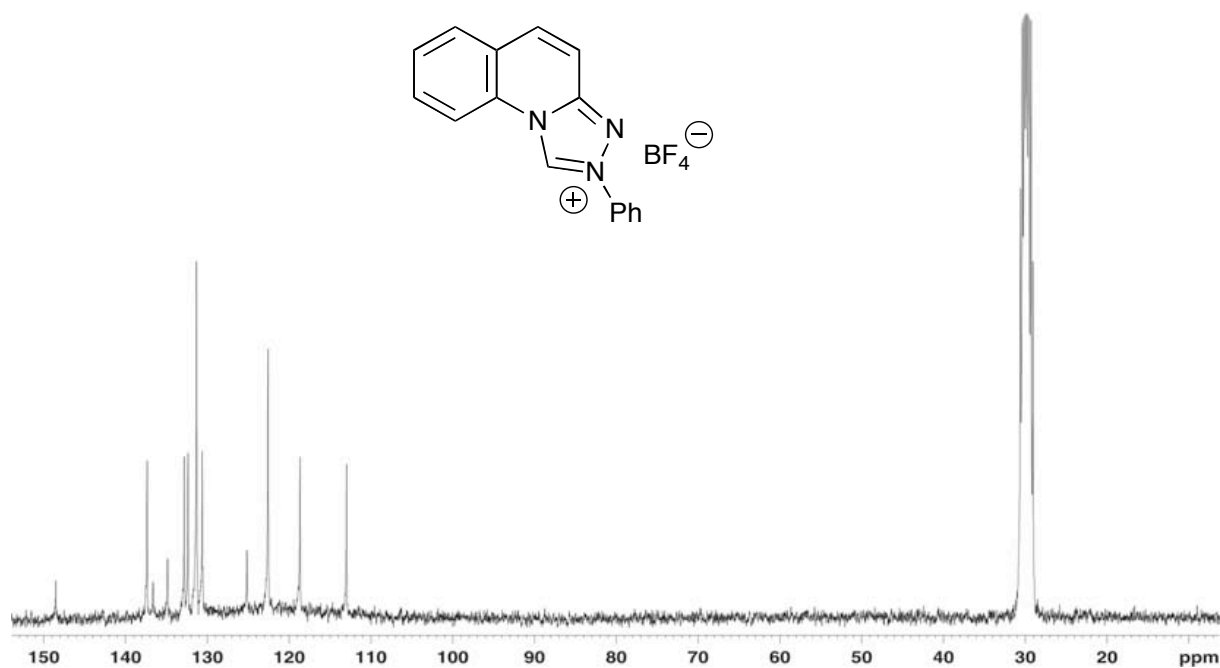
$^{13}\text{C}$  NMR  $[(\text{CD}_3)_2\text{CO}, 75 \text{ MHz}]$  of **6**



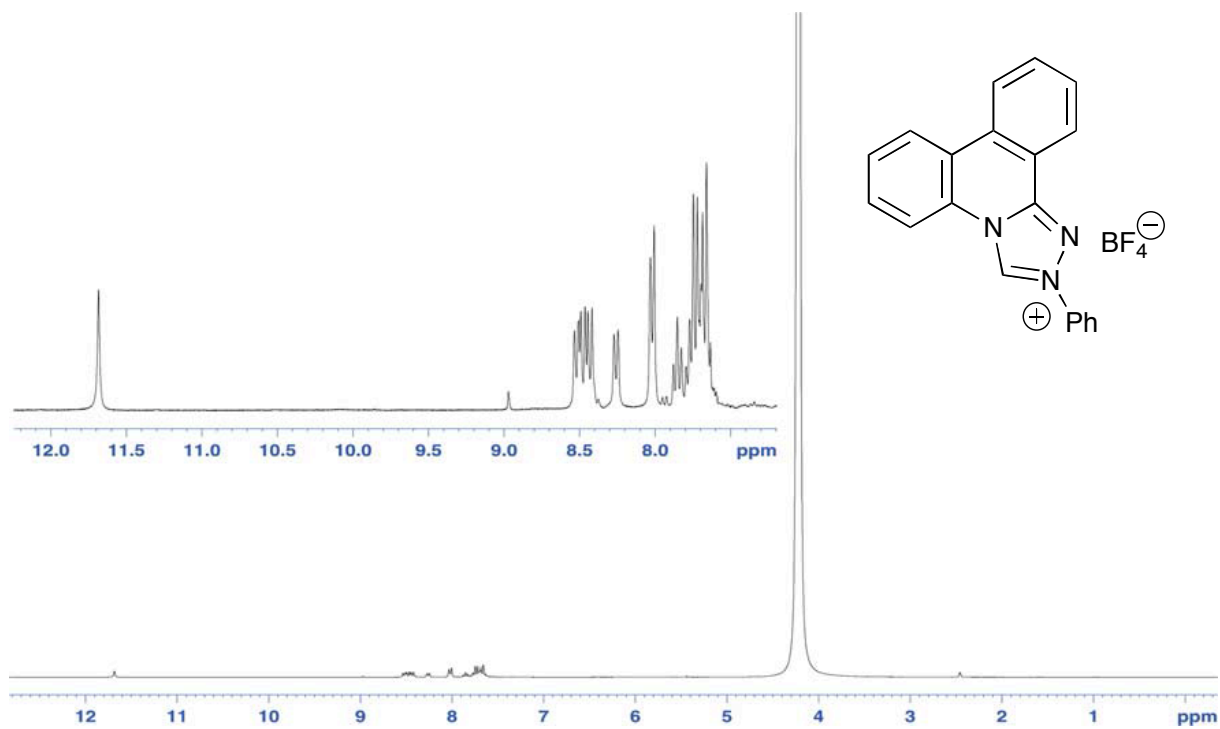
$^1\text{H}$  NMR  $[(\text{CD}_3)_2\text{CO}, 300 \text{ MHz}]$  of **7**



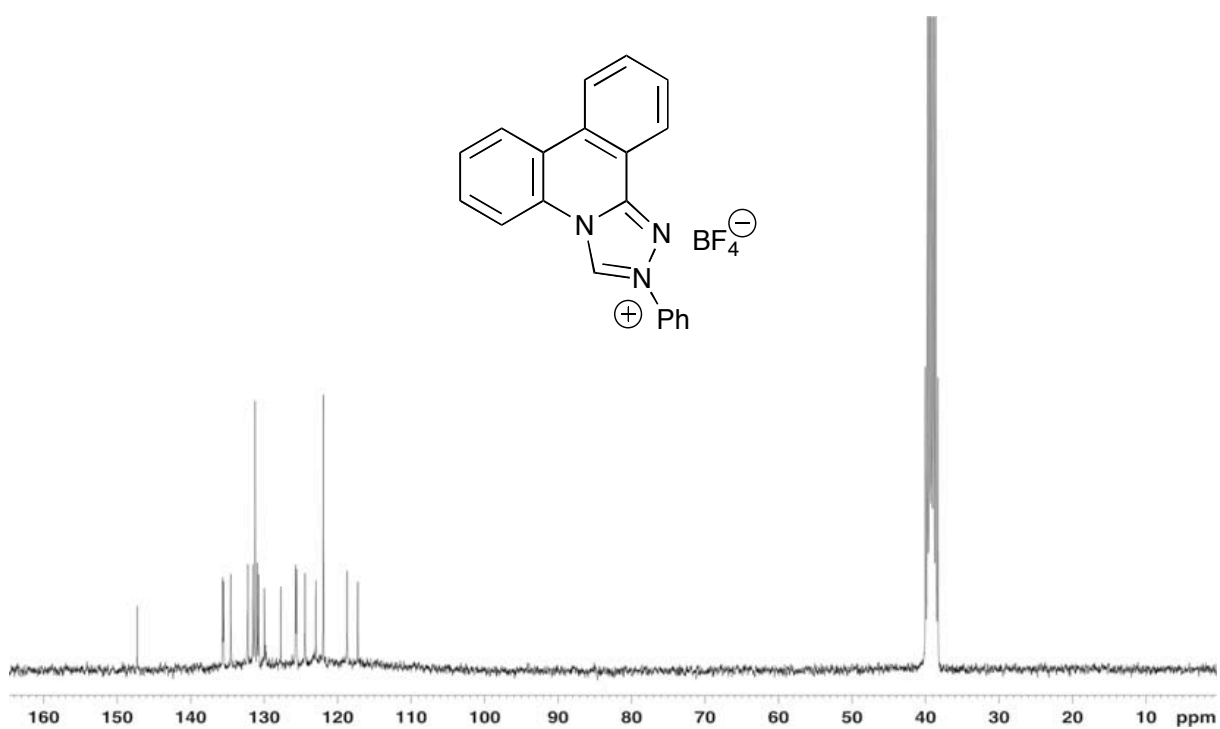
$^{13}\text{C}$  NMR  $[(\text{CD}_3)_2\text{CO}, 75 \text{ MHz}]$  of **7**



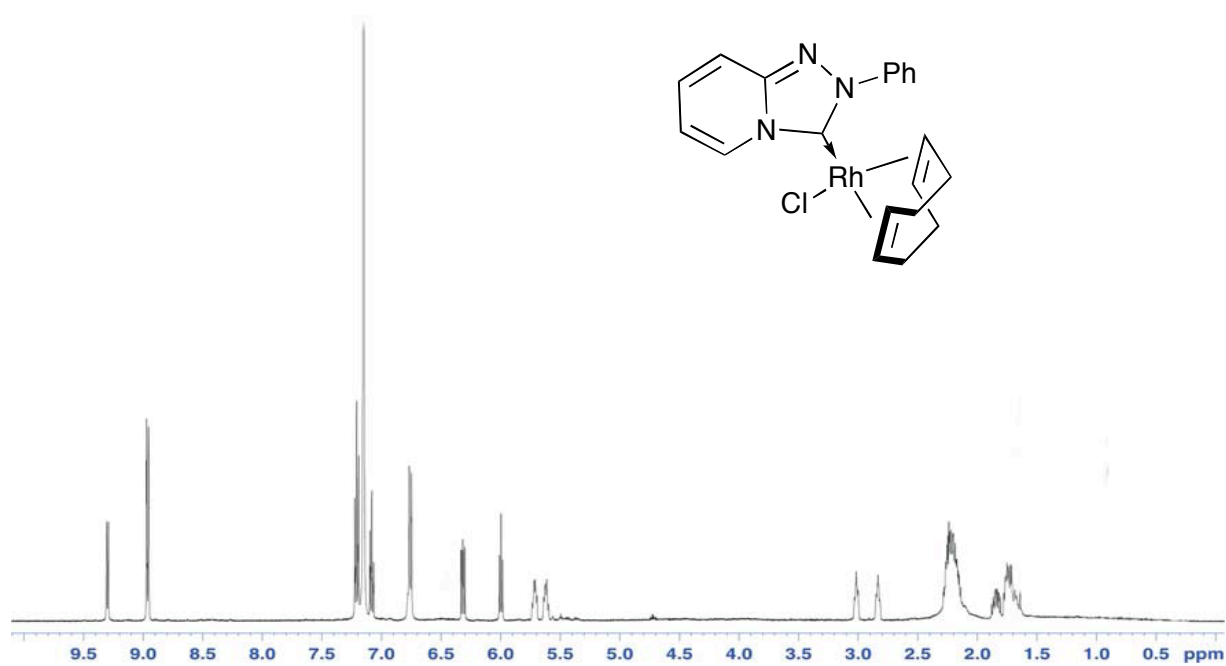
$^1\text{H}$  NMR [ $(\text{CD}_3)_2\text{SO}$ , 300 MHz] of **8**



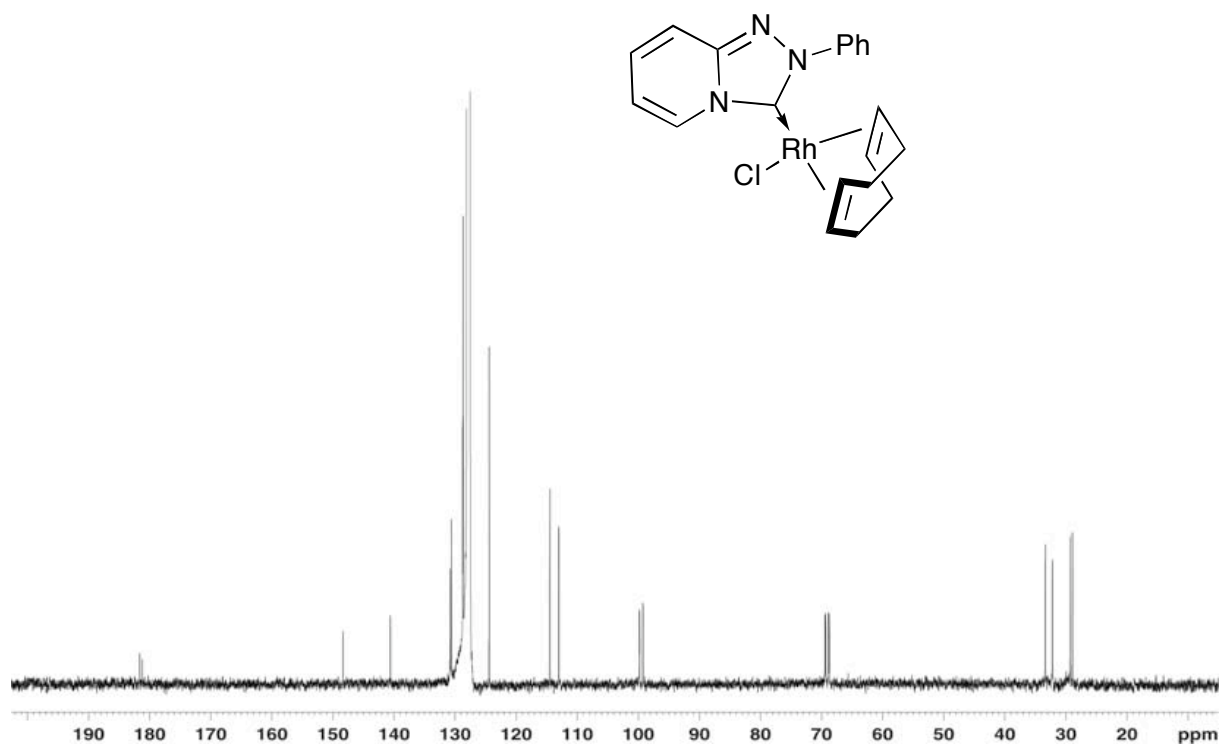
$^{13}\text{C}$  NMR [ $(\text{CD}_3)_2\text{SO}$ , 75 MHz] of **8**



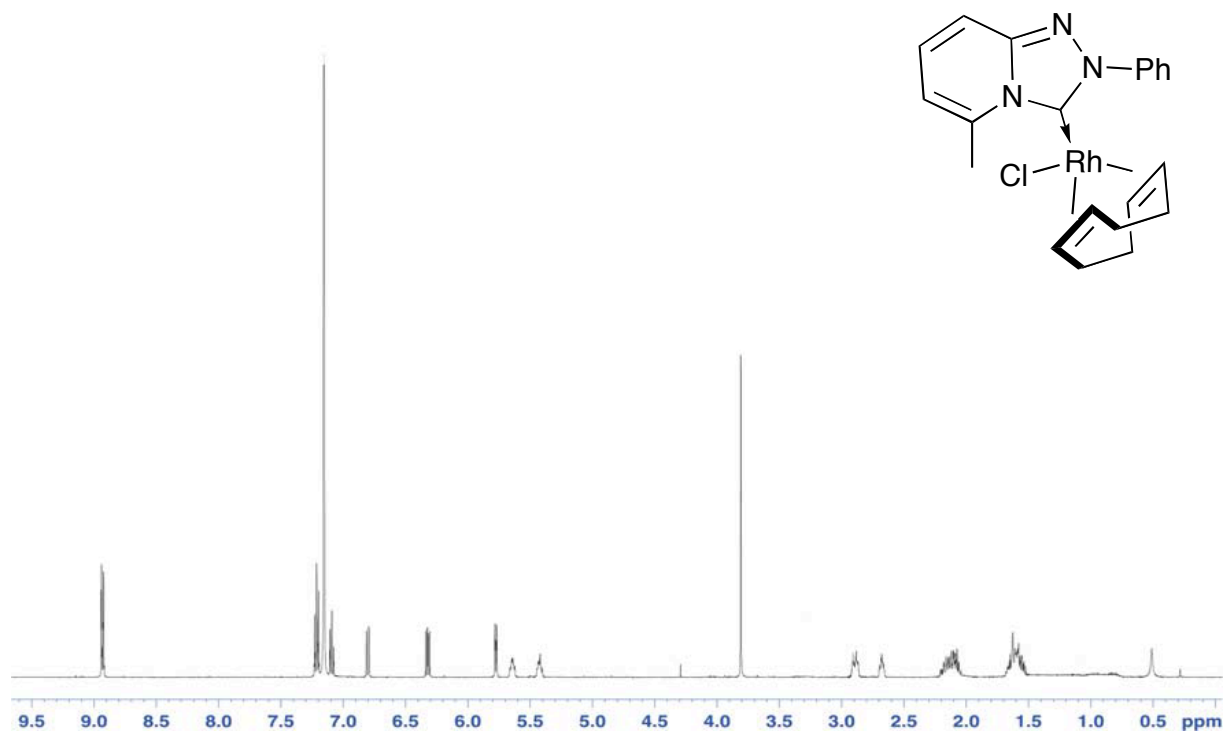
$^1\text{H}$  NMR ( $\text{C}_6\text{D}_6$ , 500 MHz) of **9**



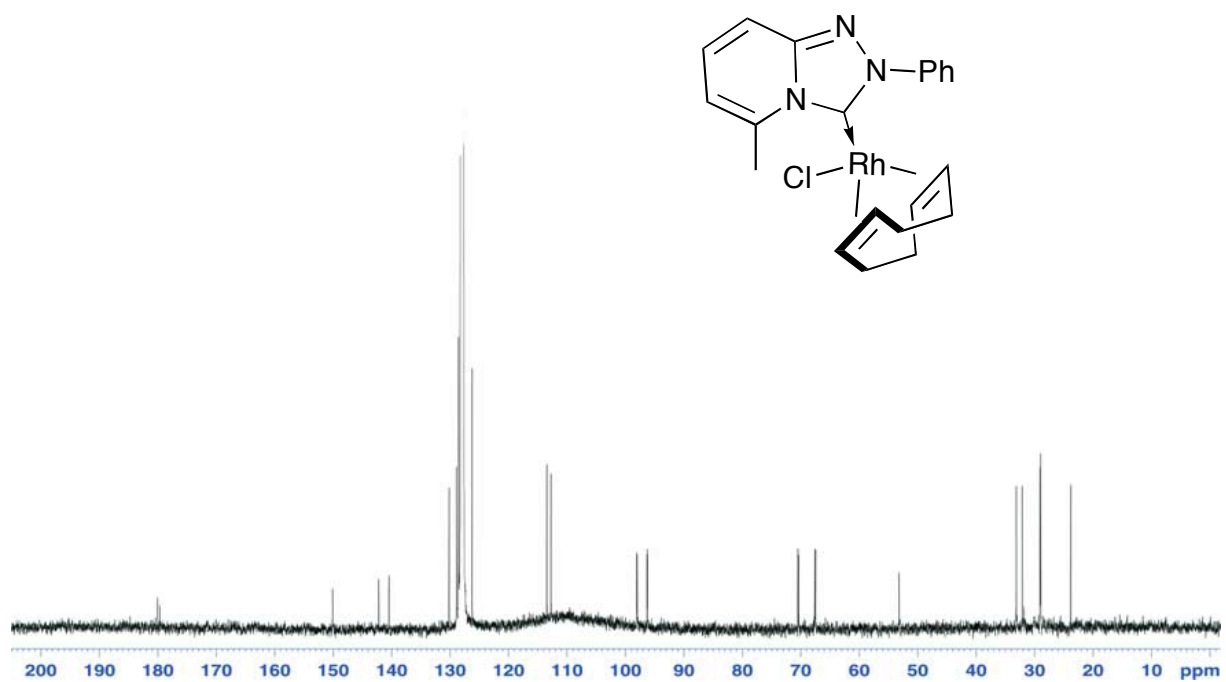
$^{13}\text{C}$  NMR ( $\text{C}_6\text{D}_6$ , 125 MHz) of **9**



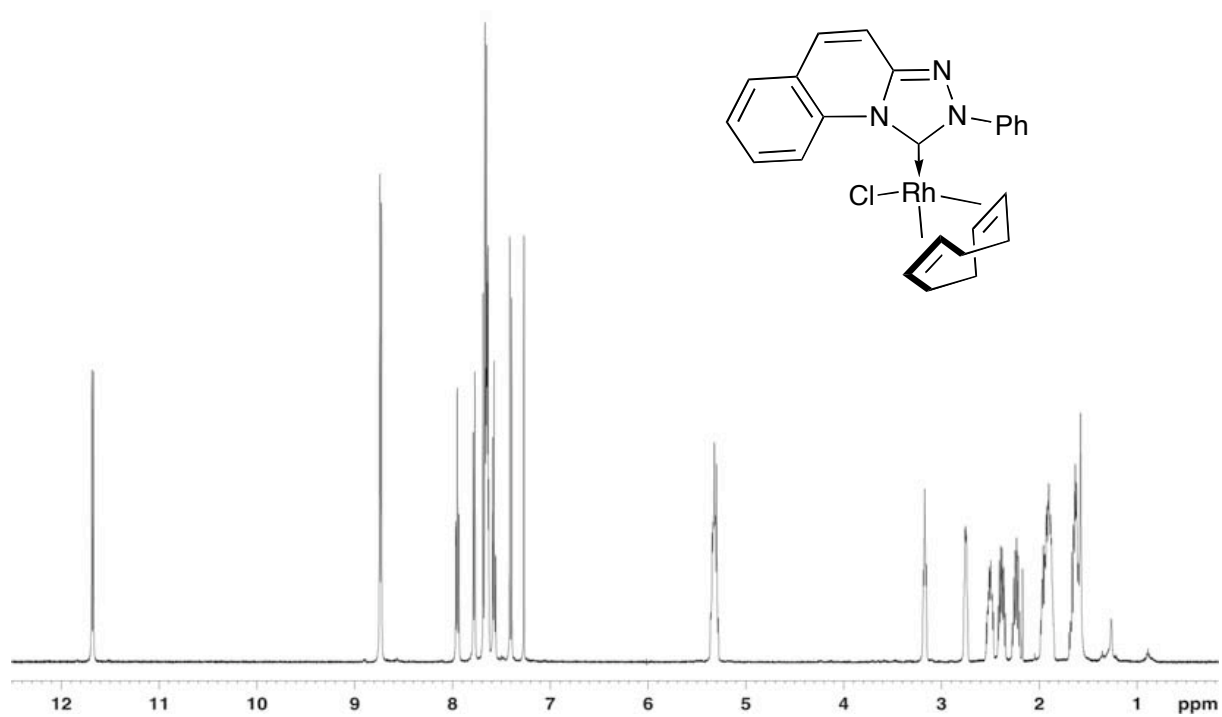
$^1\text{H}$  NMR ( $\text{C}_6\text{D}_6$ , 500 MHz) of **10**



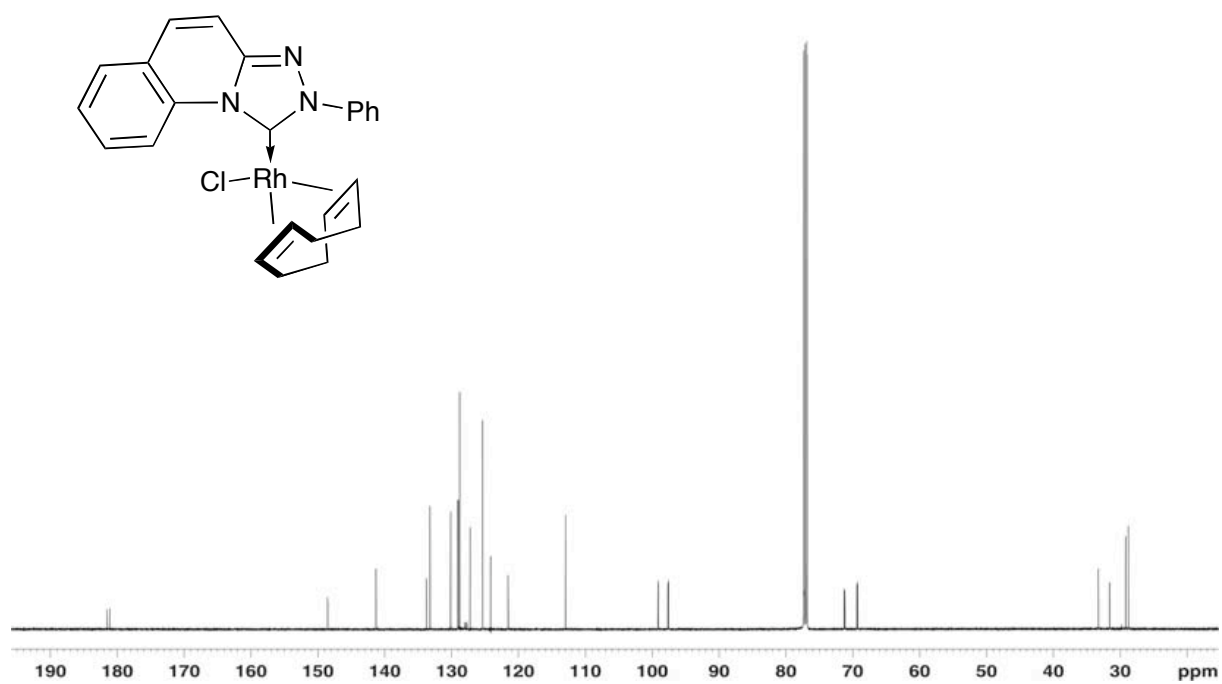
$^{13}\text{C}$  NMR ( $\text{C}_6\text{D}_6$ , 125 MHz) of **10**



$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 500 MHz) of **11**

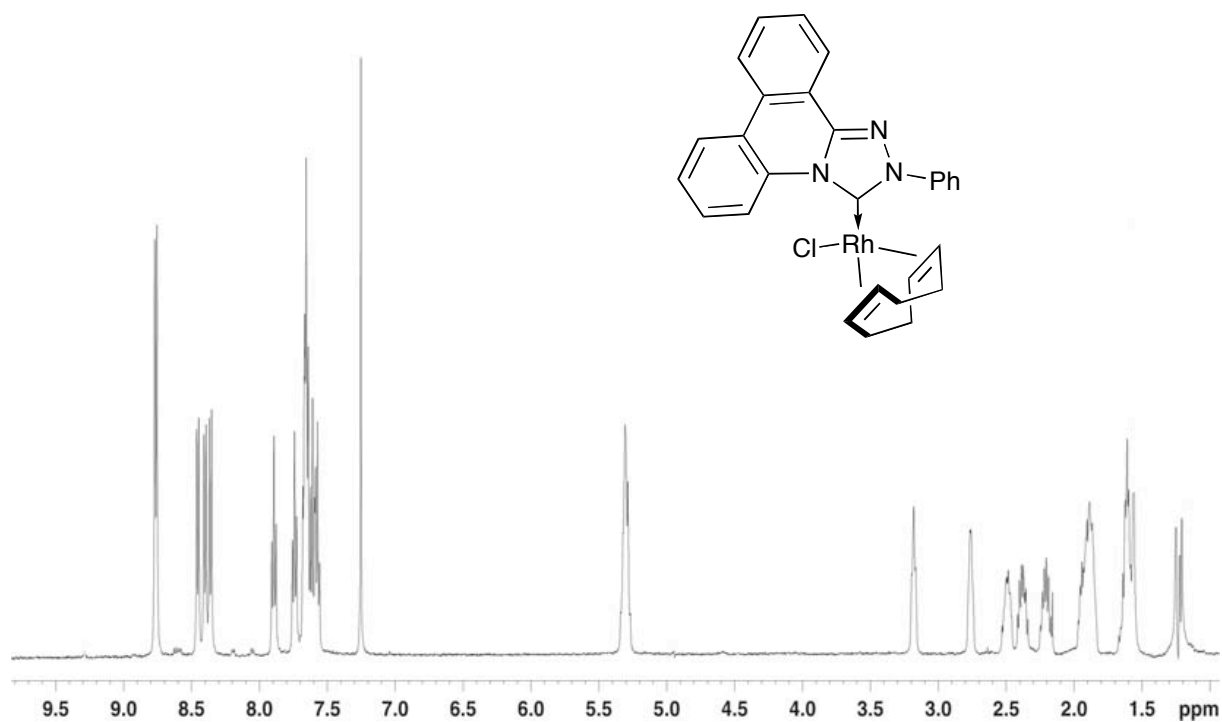


$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 125 MHz) of **11**

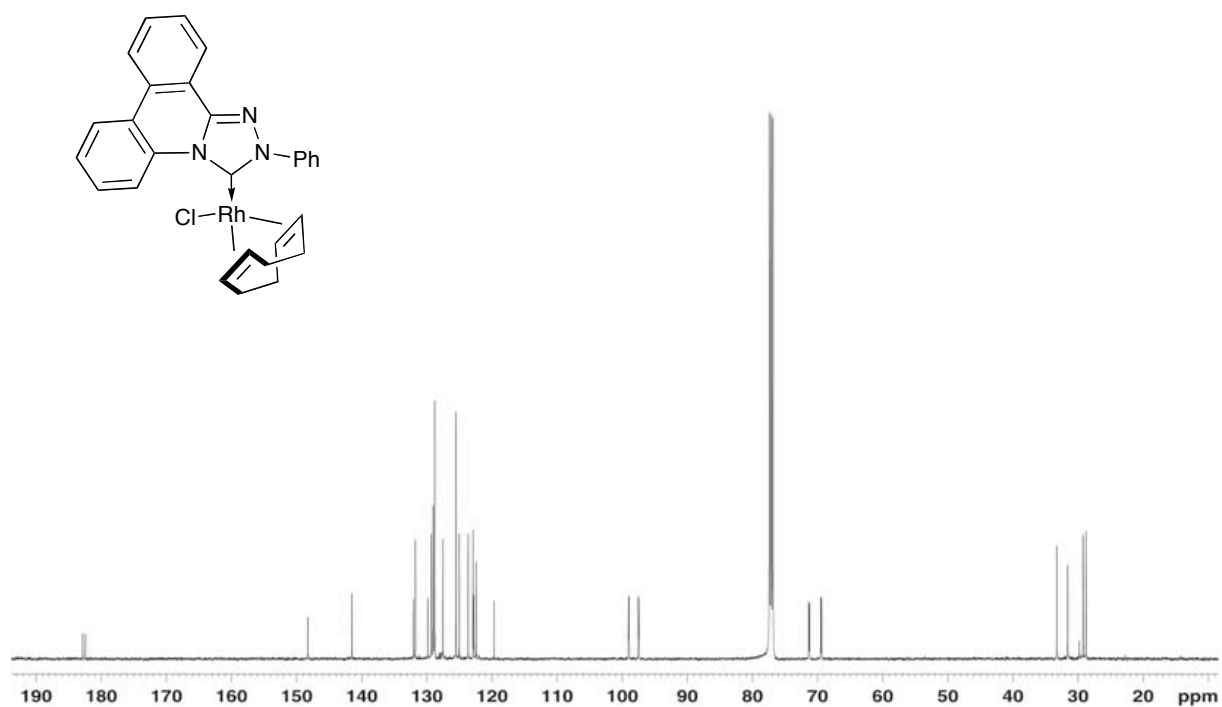




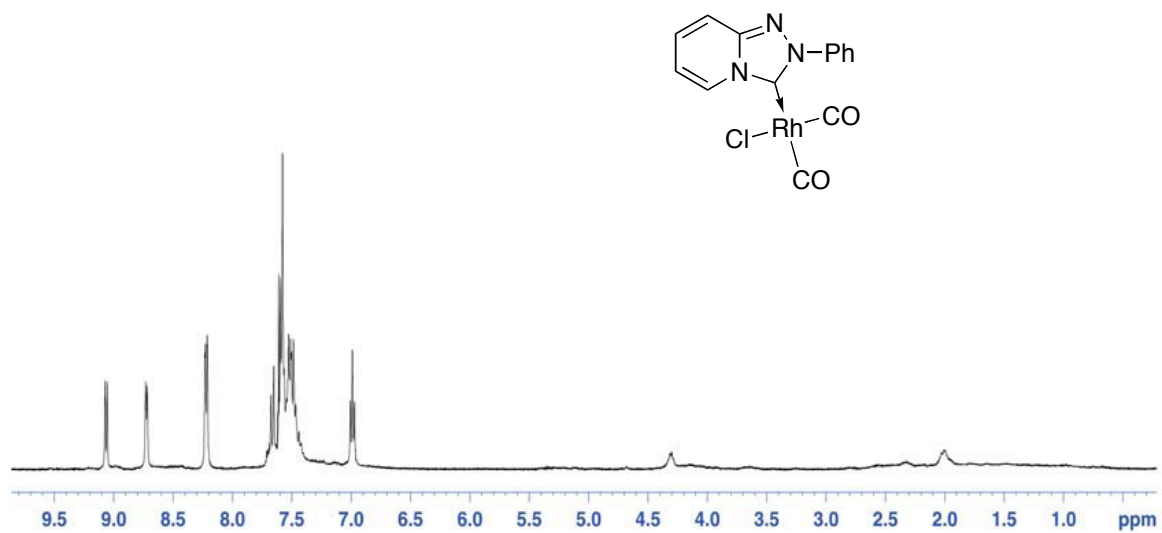
$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 500 MHz) of **12**



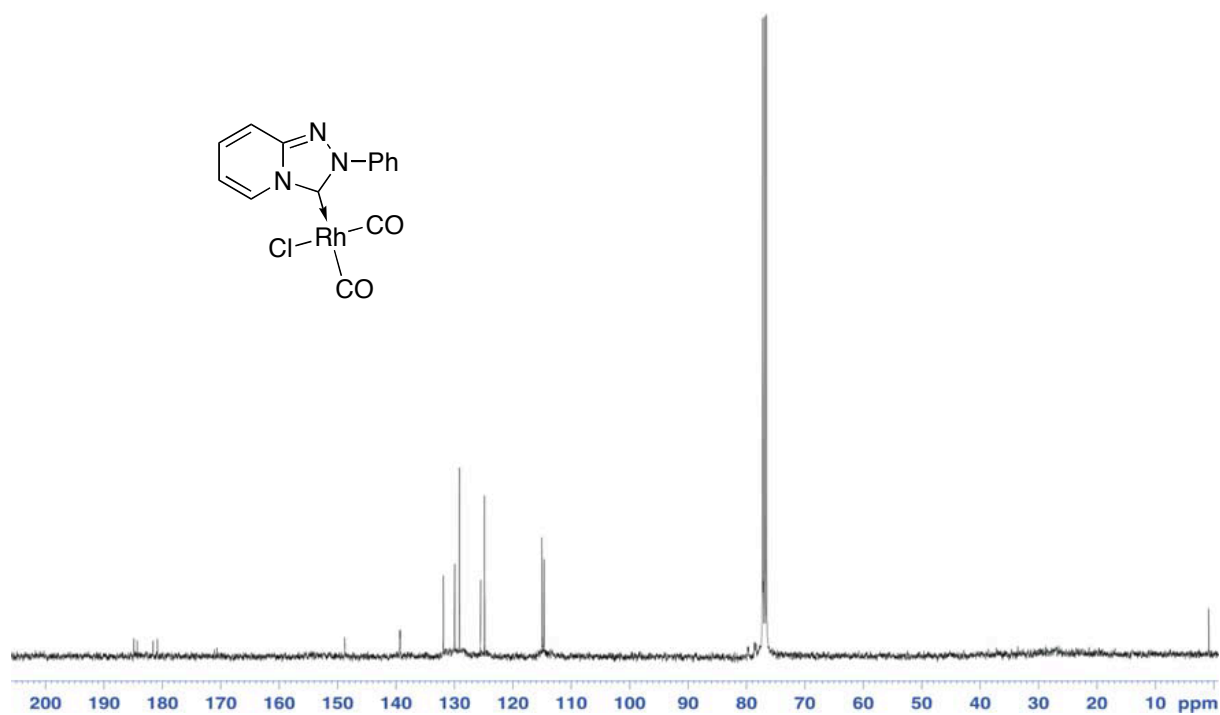
$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 125 MHz) of **12**



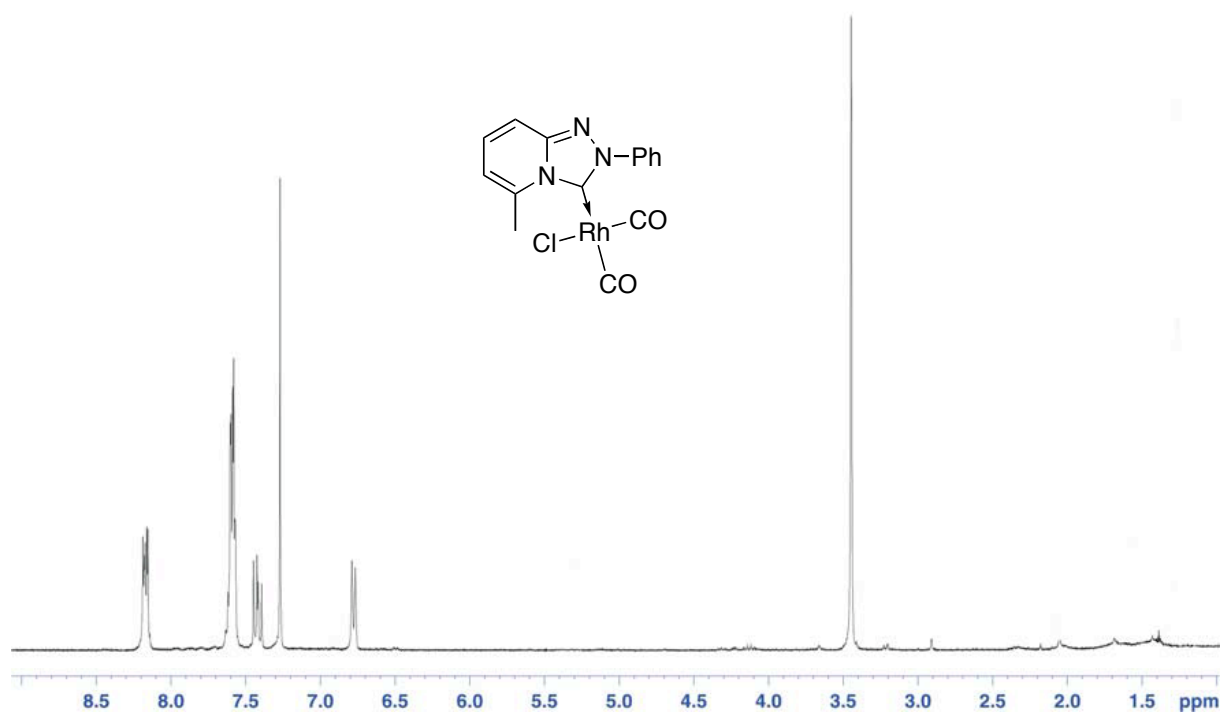
$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400 MHz) of **13**



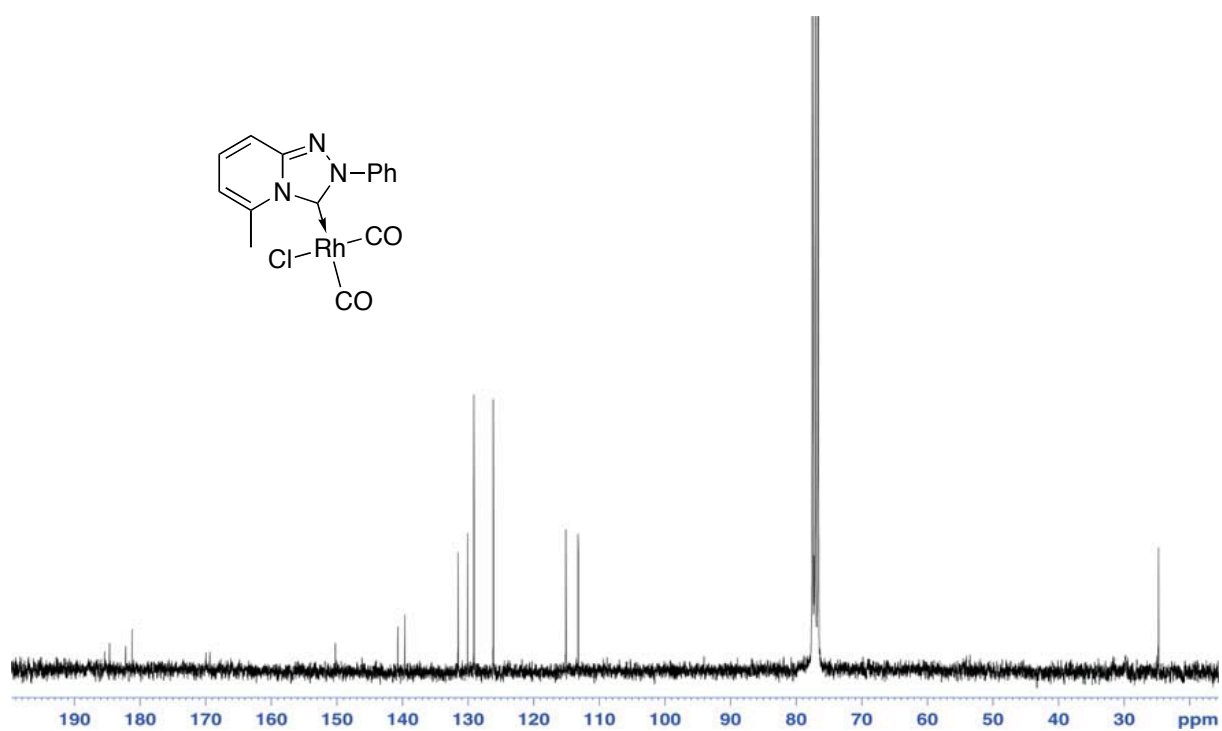
$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 100 MHz) of **13**



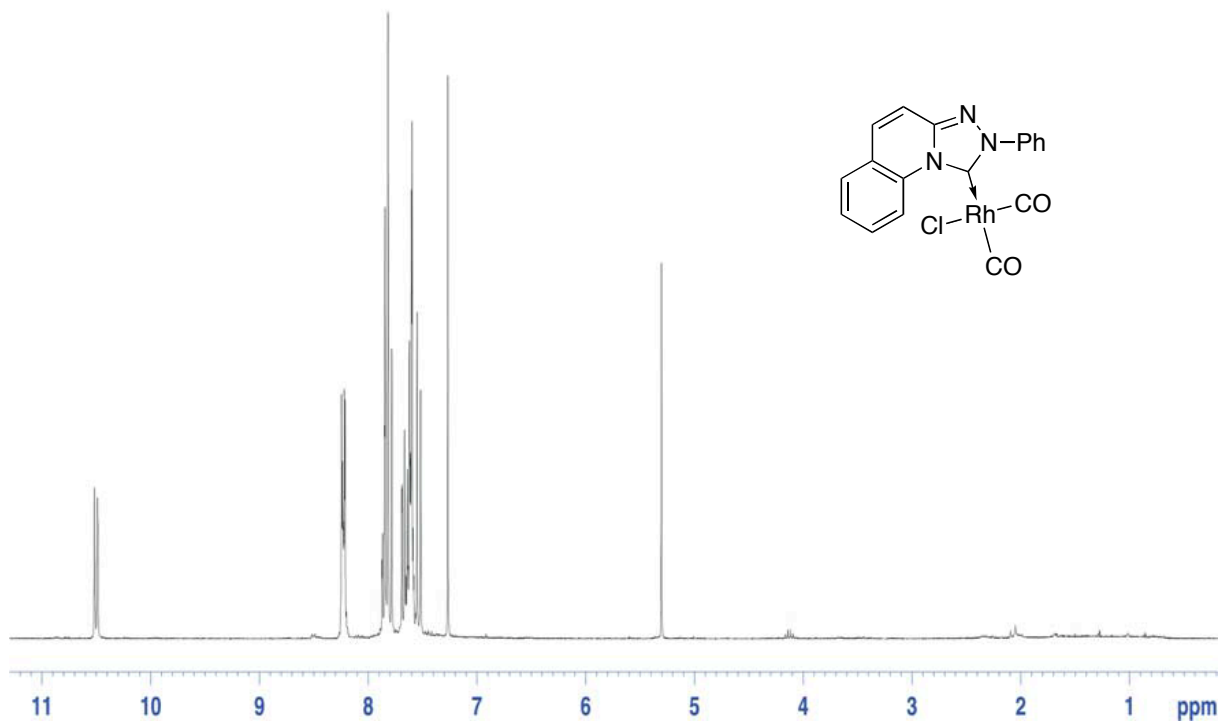
$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 300 MHz) of **14**



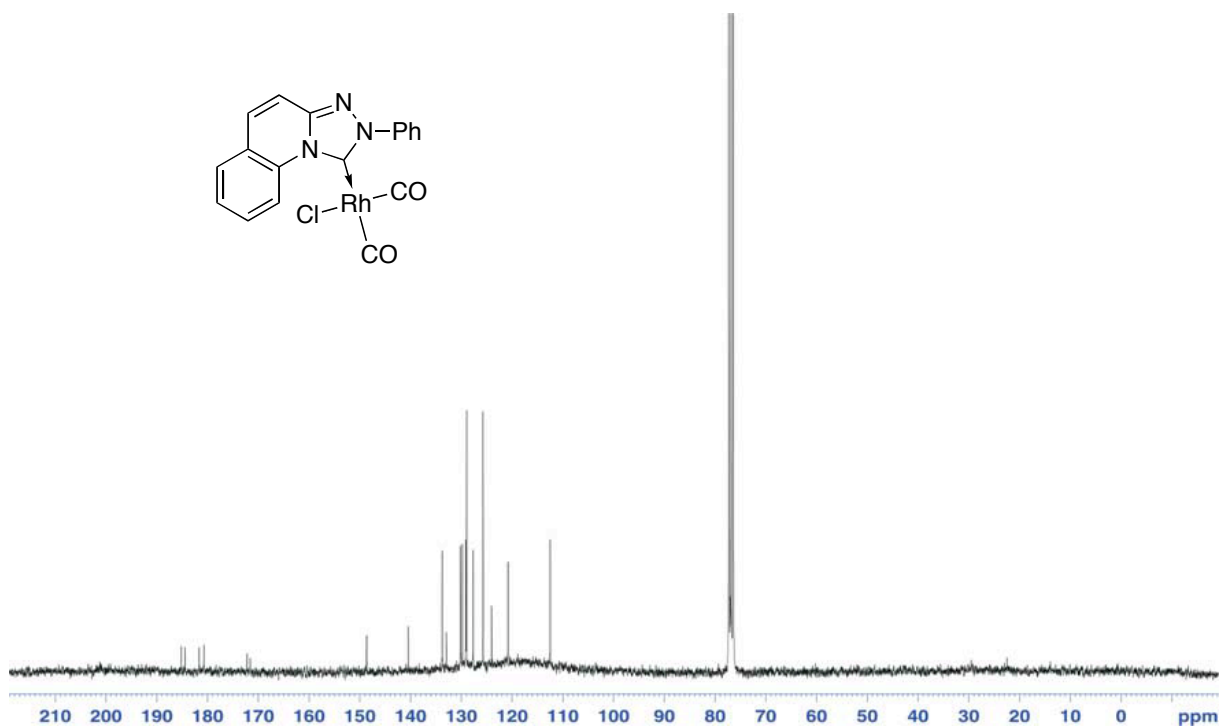
$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 75 MHz) of **14**



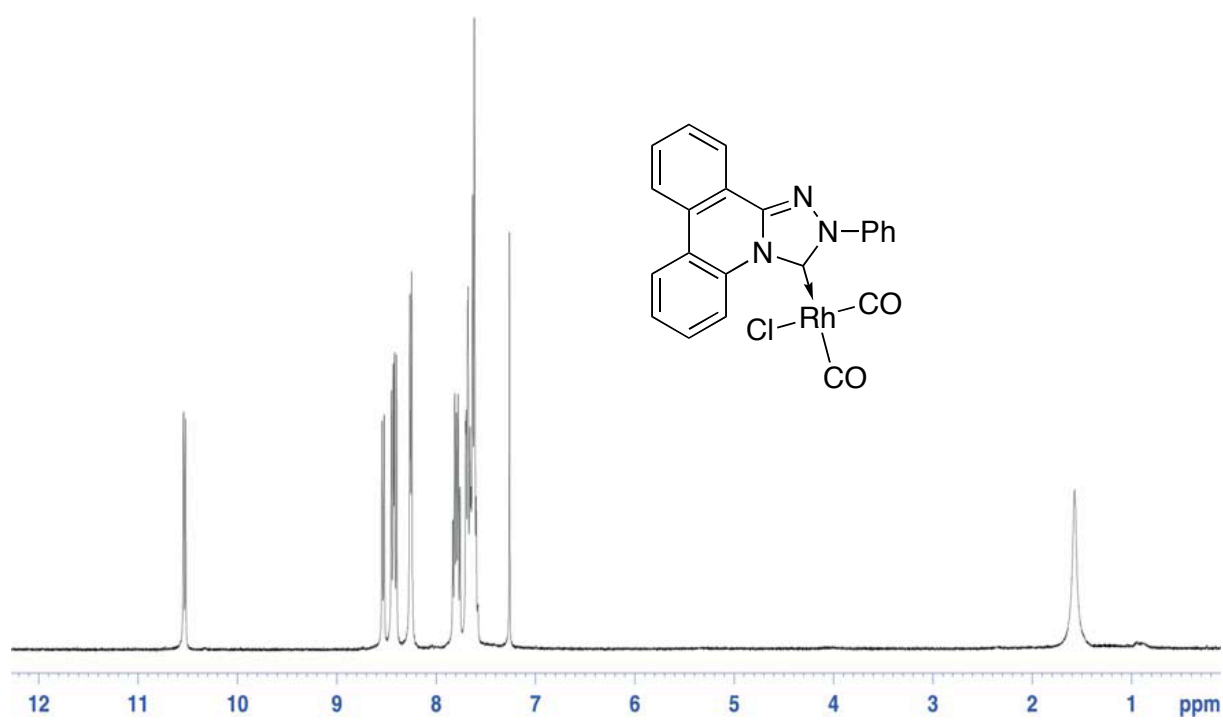
$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 300 MHz) of **15**



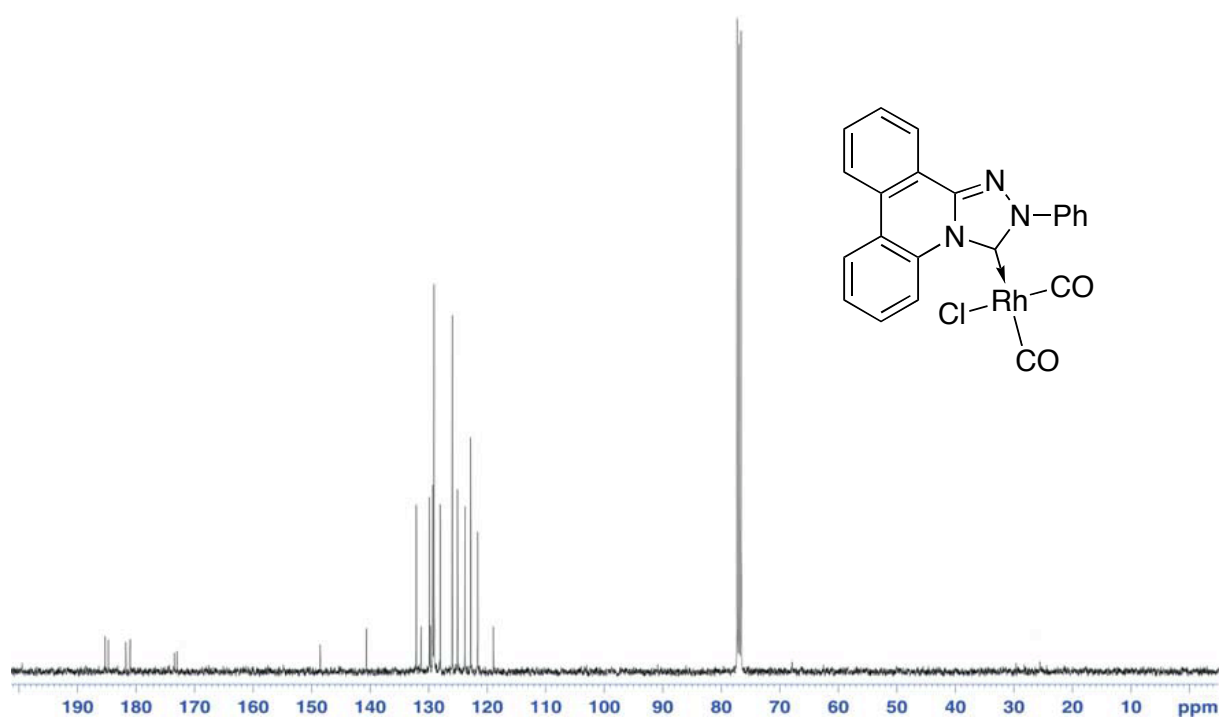
$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 75 MHz) of **15**



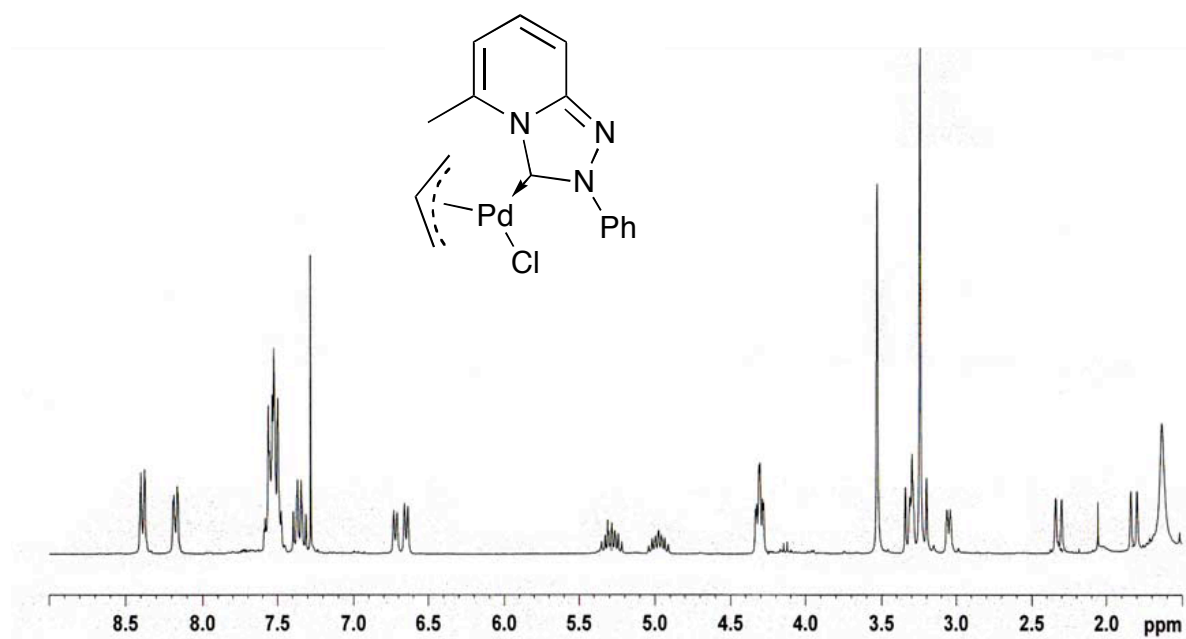
$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400 MHz) of **16**



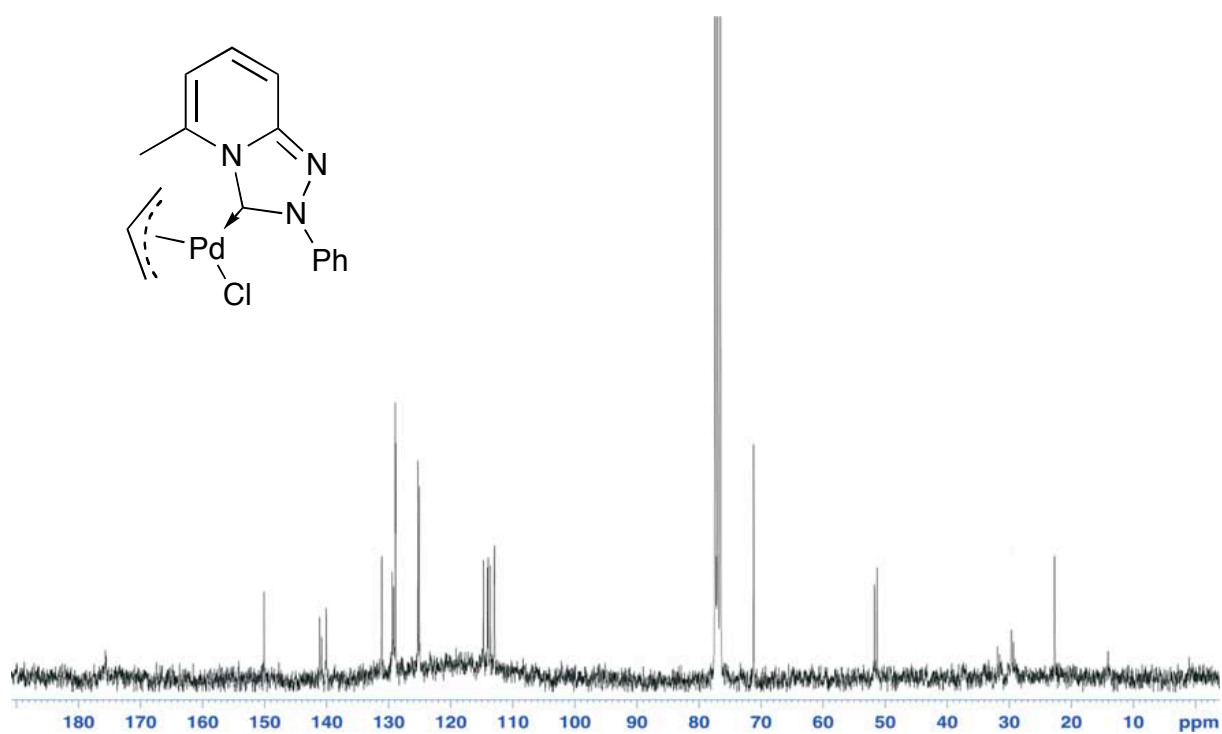
$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 100 MHz) of **16**



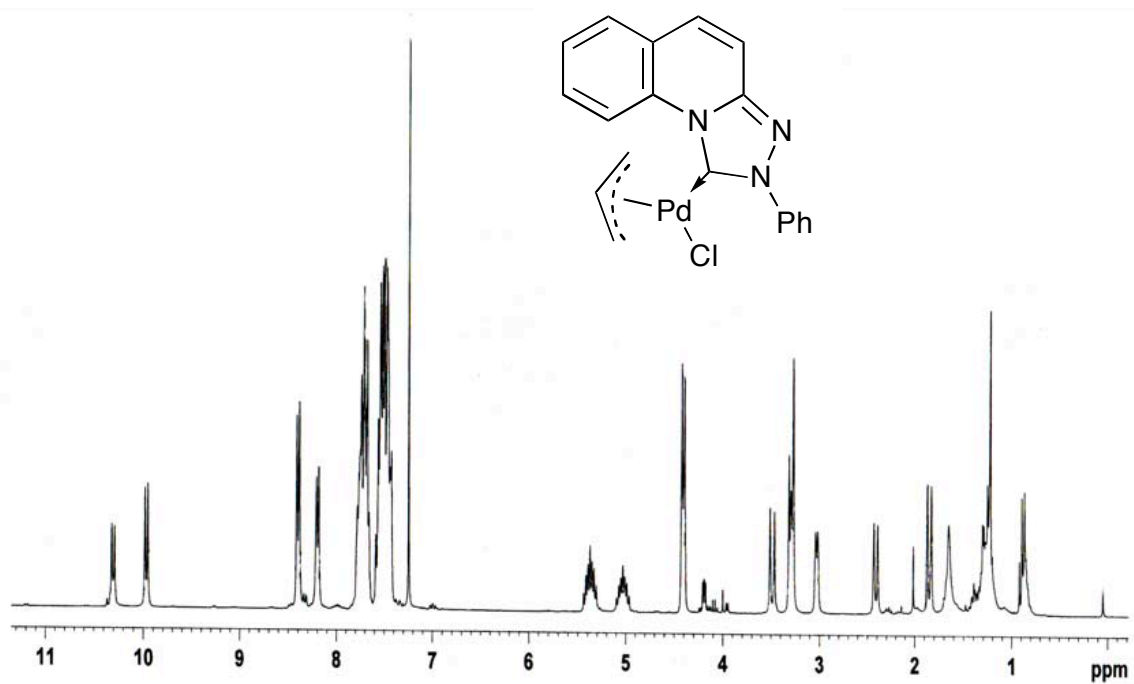
$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 300 MHz) of **17**



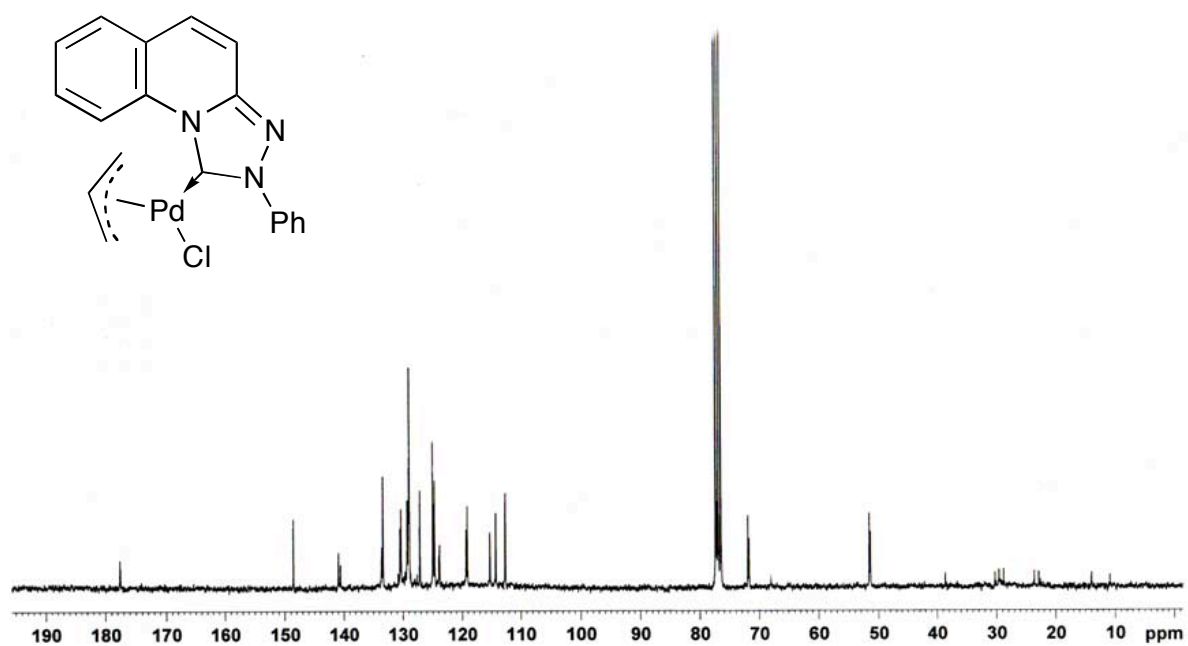
$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 75 MHz) of **17**



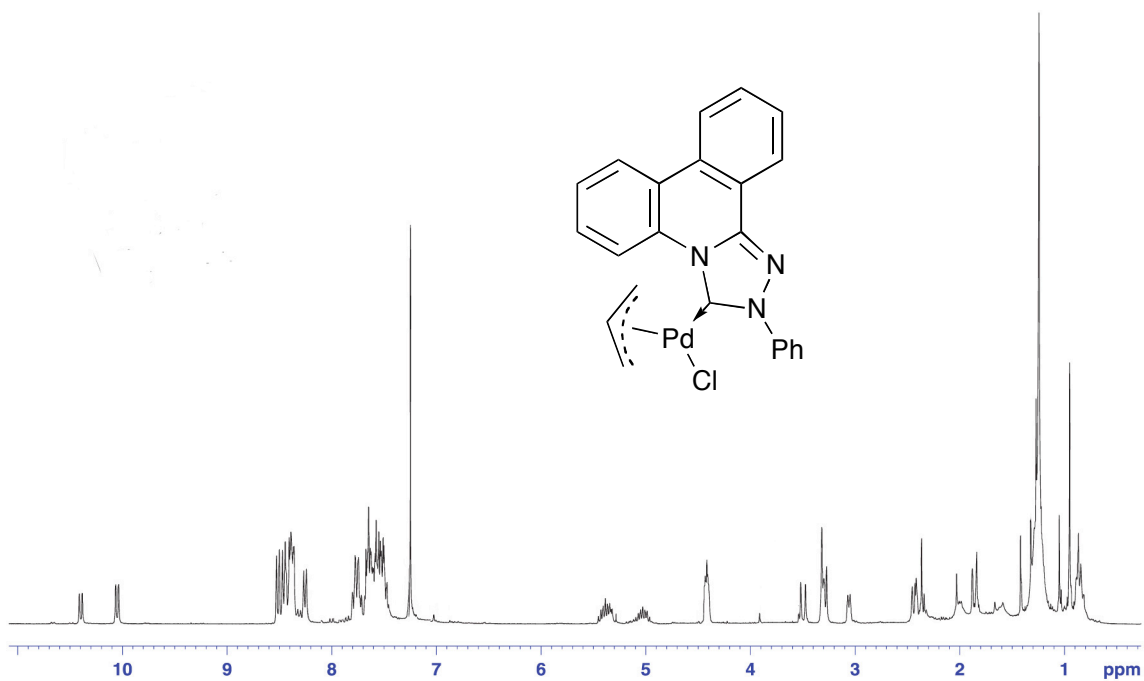
$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 500 MHz) of **18**



$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 125 MHz) of **18**



$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 500 MHz) of **19**



$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 125 MHz) of **19**

