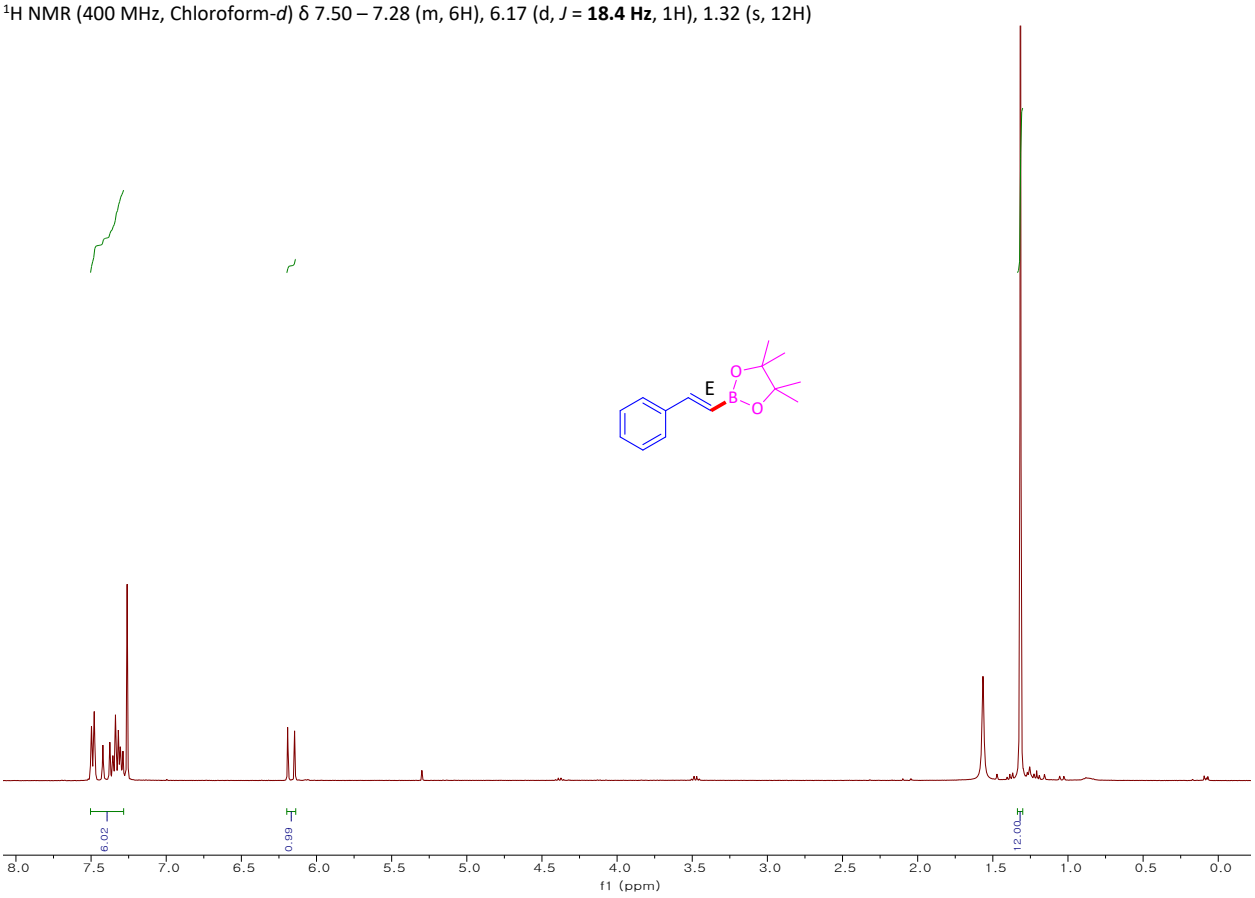
Electronic Supplementary Material (ESI) for RSC Advances.

Supplementary Information

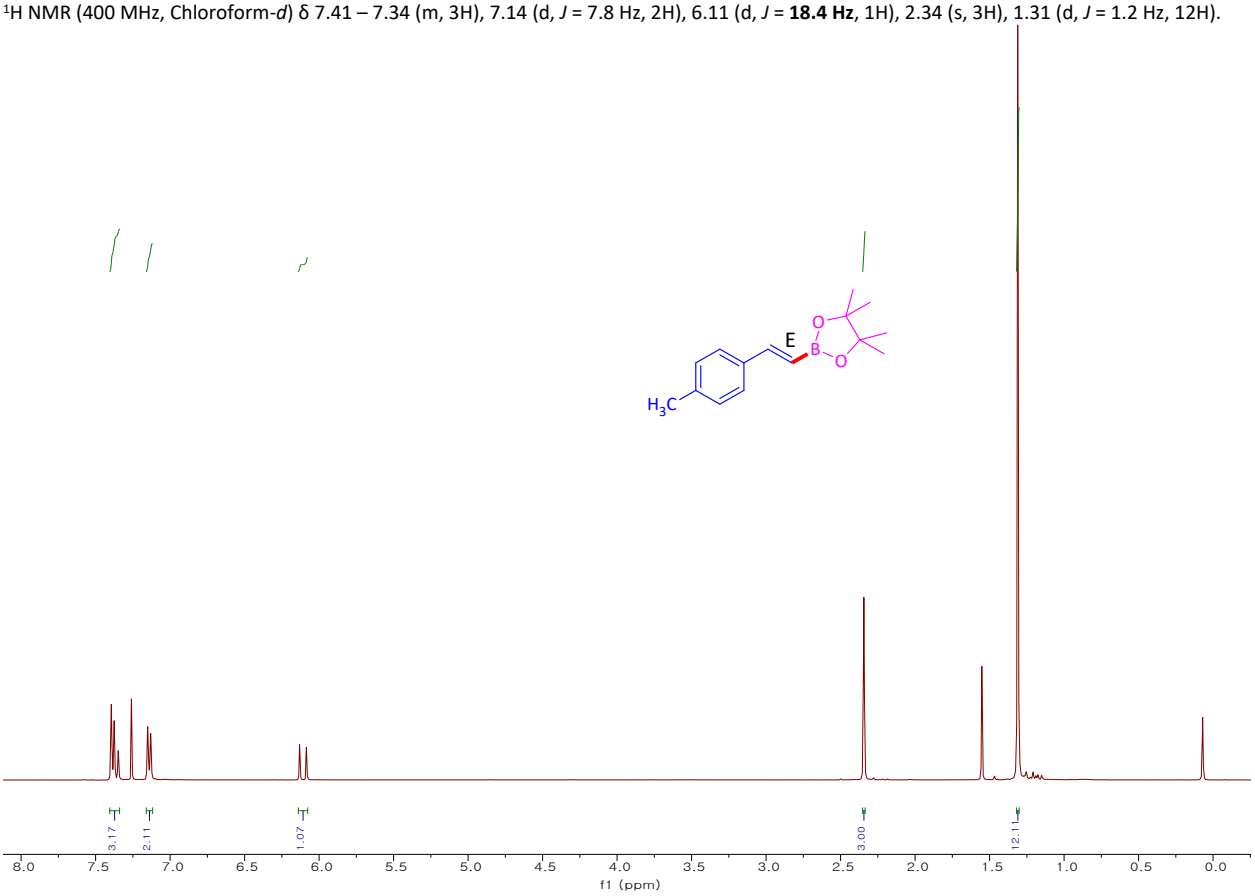
A Simple Synthesis of Surfactant-free Polycrystalline CuO Nanoparticles Supported on Carbon Nanofibers for Regioselective Hydroboration of Alkynes

Table of Contents

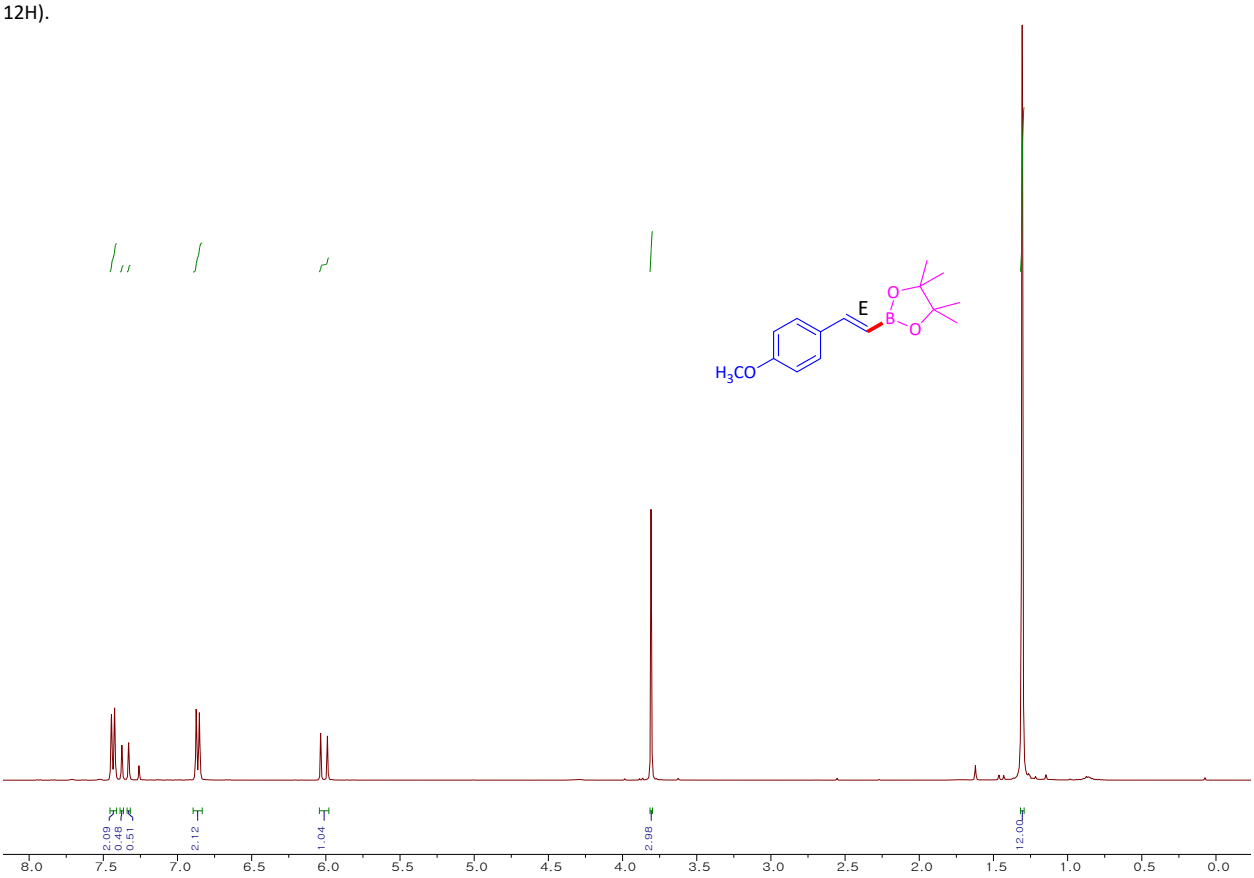
^{1}H NMR (400 MHz, Chloroform-*d*) δ 7.50 – 7.28 (m, 6H), 6.17 (d, *J* = **18.4 Hz**, 1H), 1.32 (s, 12H)



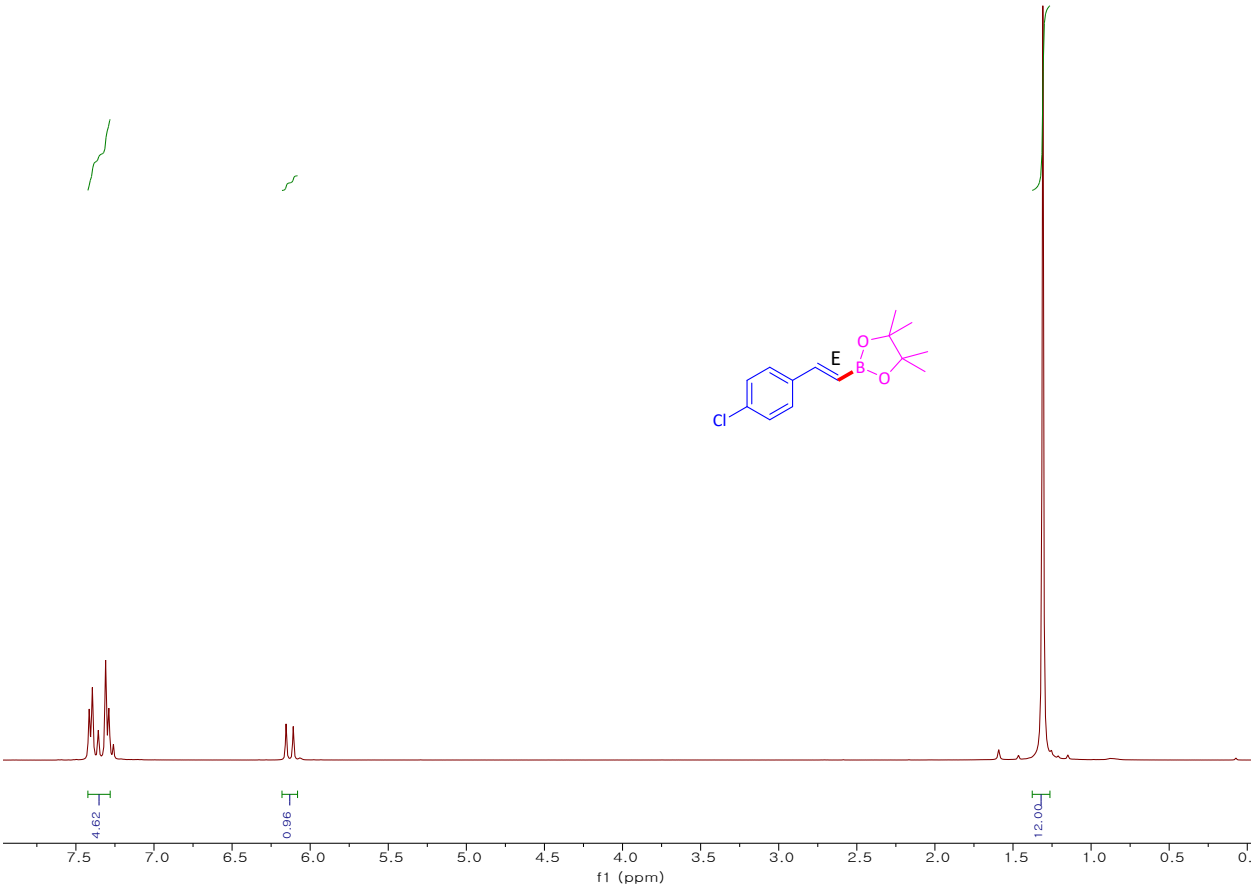
^{1}H NMR (400 MHz, Chloroform-*d*) δ 7.41 – 7.34 (m, 3H), 7.14 (d, *J* = 7.8 Hz, 2H), 6.11 (d, *J* = **18.4 Hz**, 1H), 2.34 (s, 3H), 1.31 (d, *J* = 1.2 Hz, 12H).



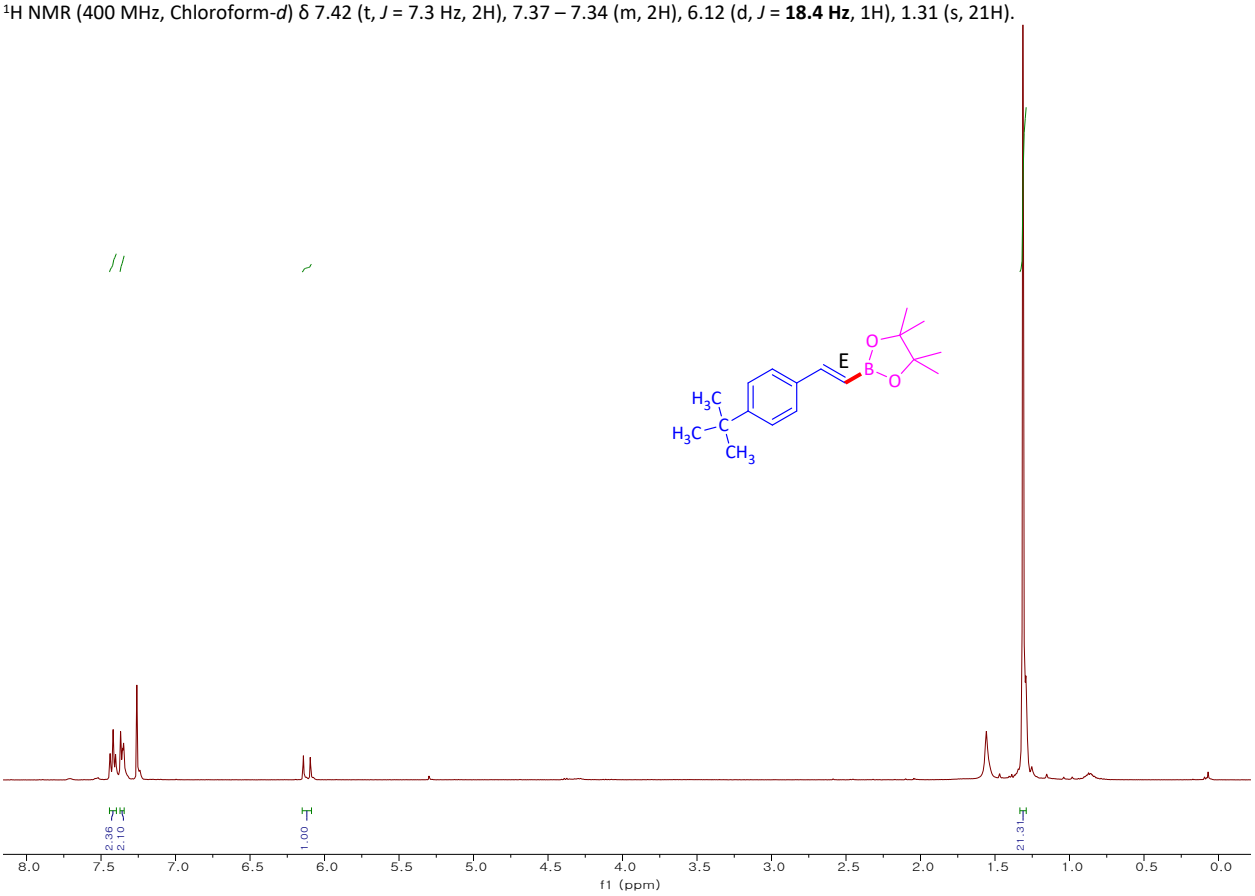
^{1}H NMR (400 MHz, Chloroform-*d*) δ 7.43 (d, *J* = 8.5 Hz, 2H), 7.33 (s, 1H), 6.86 (d, *J* = 8.4 Hz, 2H), 6.01 (d, *J* = **18.4 Hz**, 1H), 3.81 (s, 3H), 1.31 (s, 12H).



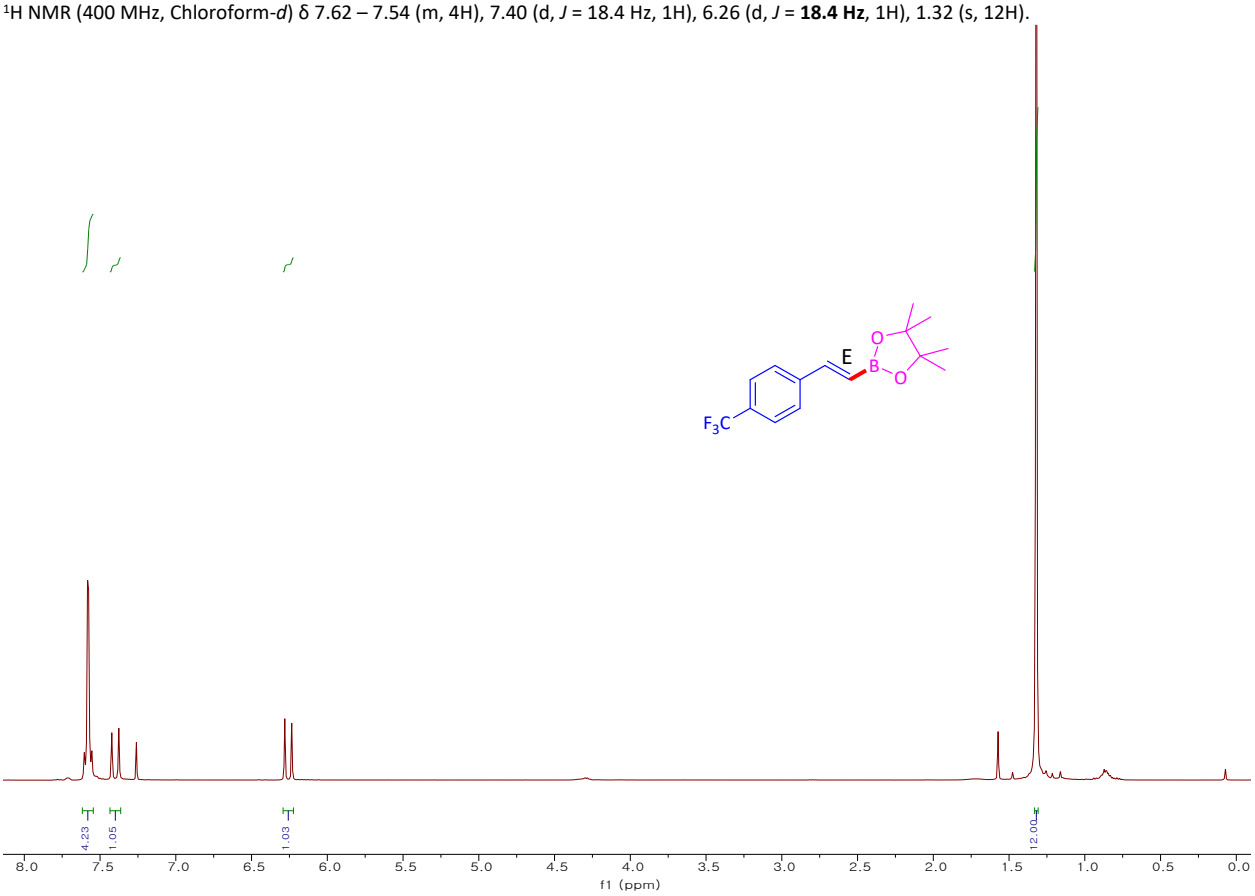
^{1}H NMR (400 MHz, Chloroform-*d*) δ 7.42 – 7.28 (m, 5H), 6.13 (d, *J* = **18.4 Hz**, 1H), 1.31 (s, 12H).



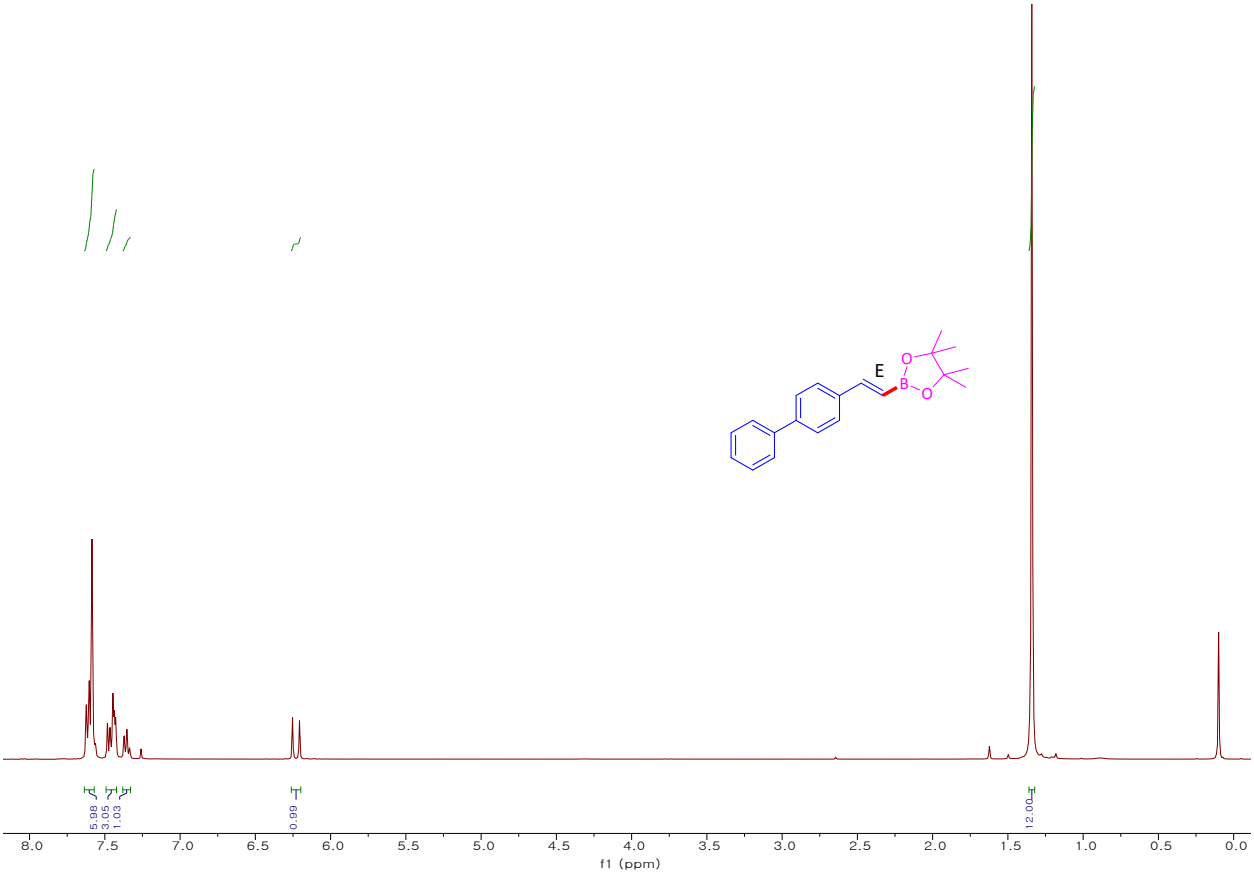
^{1}H NMR (400 MHz, Chloroform-*d*) δ 7.42 (t, *J* = 7.3 Hz, 2H), 7.37 – 7.34 (m, 2H), 6.12 (d, *J* = **18.4 Hz**, 1H), 1.31 (s, 21H).



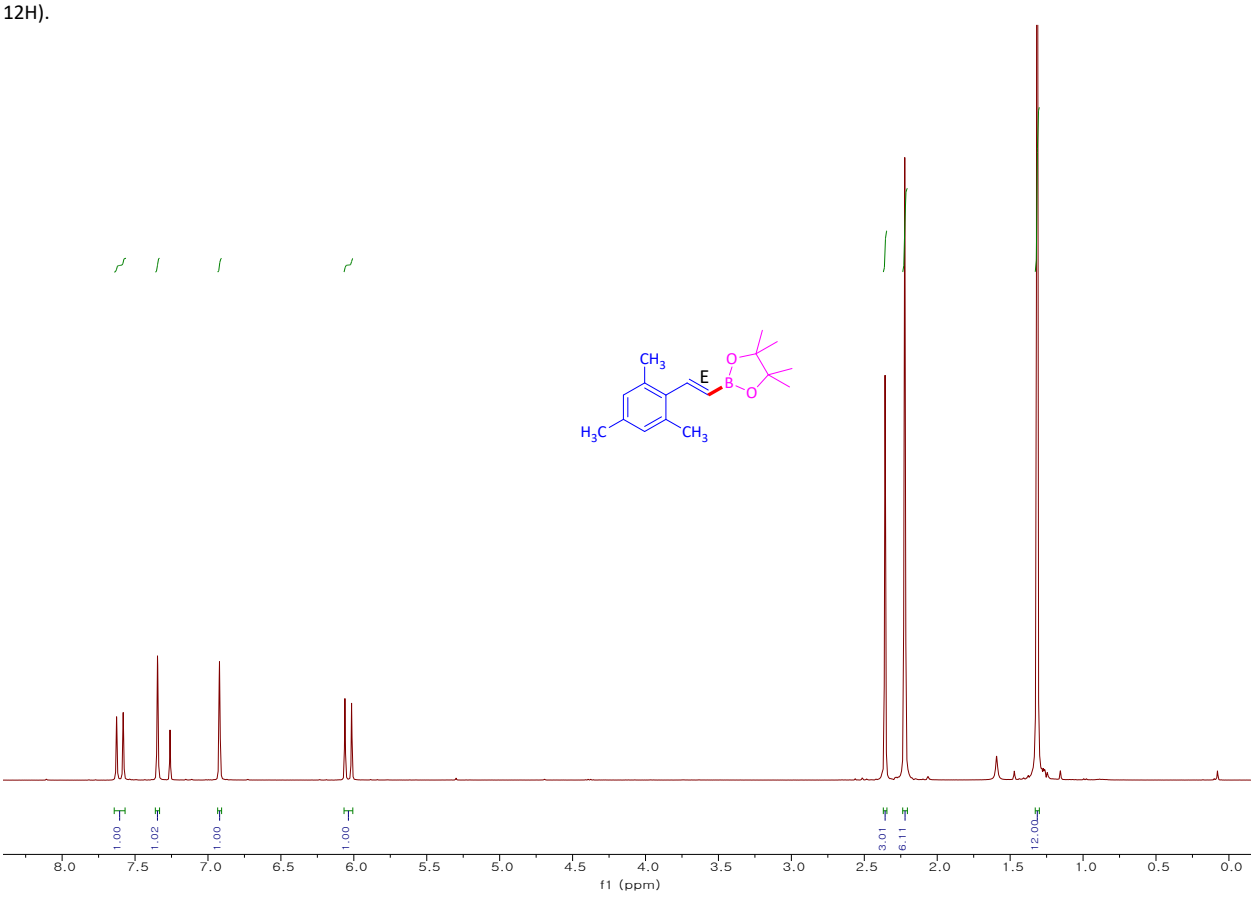
^{1}H NMR (400 MHz, Chloroform-*d*) δ 7.62 – 7.54 (m, 4H), 7.40 (d, *J* = 18.4 Hz, 1H), 6.26 (d, *J* = **18.4 Hz**, 1H), 1.32 (s, 12H).



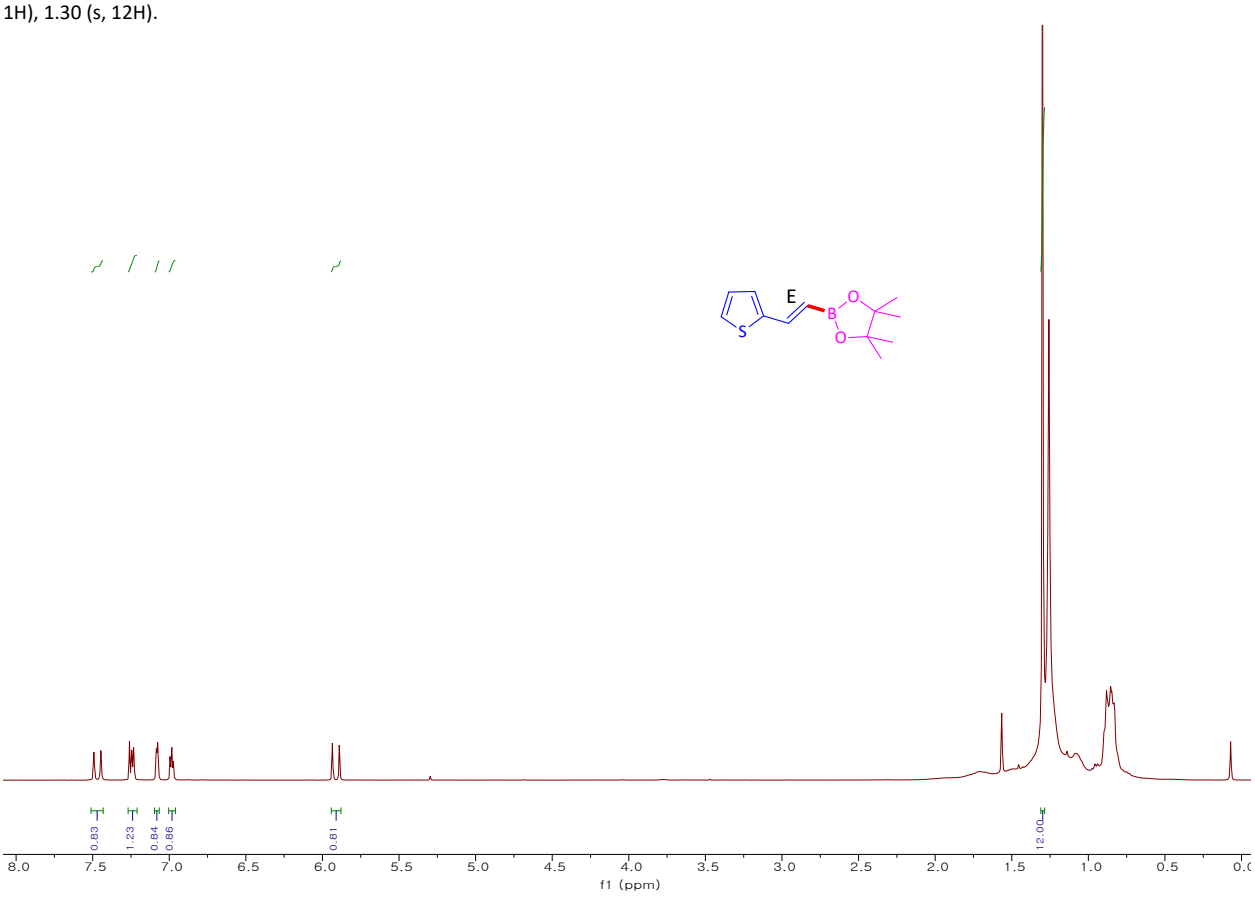
^{1}H NMR (400 MHz, Chloroform-*d*) δ 7.64 – 7.57 (m, 6H), 7.49 – 7.42 (m, 3H), 7.35 (t, *J* = 7.3 Hz, 1H), 6.23 (d, *J* = **18.4 Hz**, 1H), 1.34 (s, 12H).



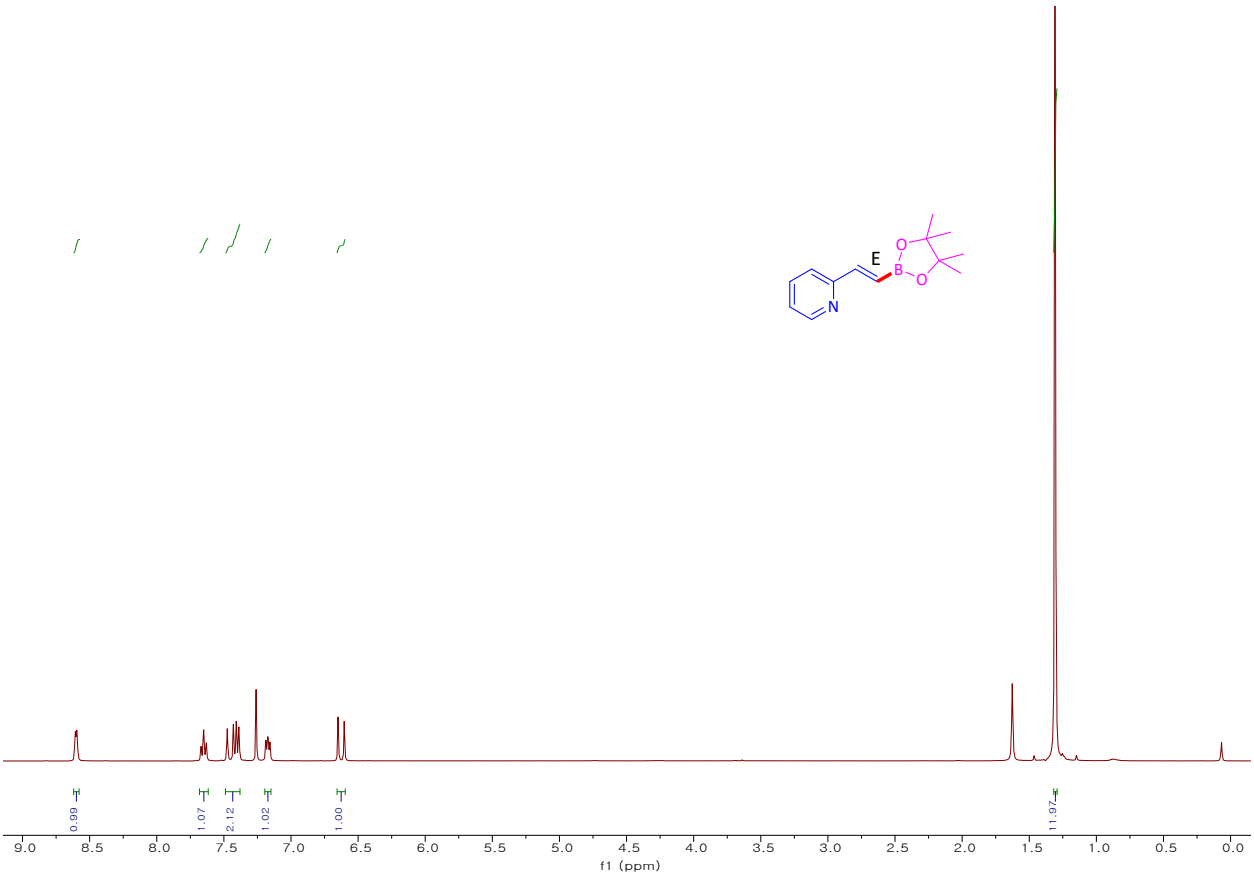
^{1}H NMR (400 MHz, Chloroform-*d*) δ 7.60 (d, *J* = **18.3 Hz**, 1H), 7.35 (s, 1H), 6.92 (s, 1H), 6.04 (d, *J* = 18.3 Hz, 1H), 2.36 (s, 3H), 2.22 (s, 6H), 1.32 (s, 12H).



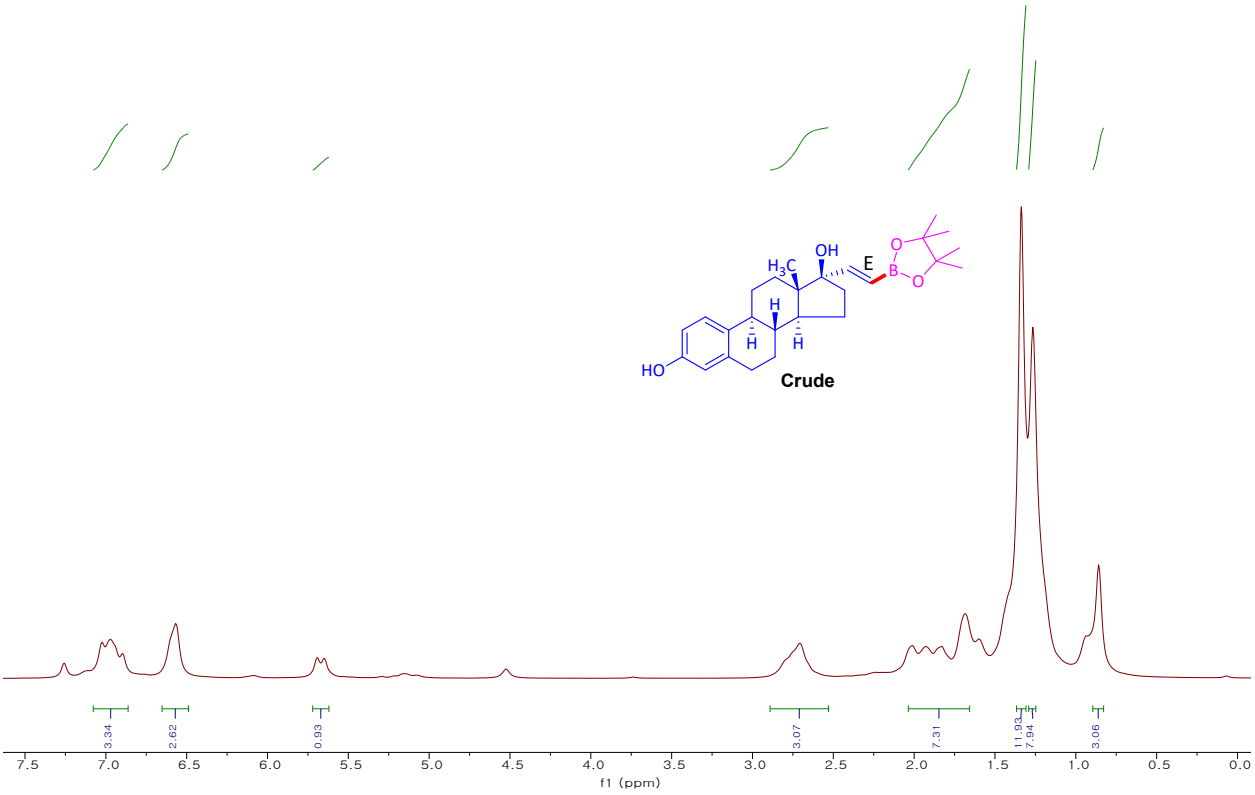
^{1}H NMR (400 MHz, Chloroform-*d*) δ 7.49 (s, 1H), 7.27 – 7.21 (m, 1H), 7.08 (d, *J* = 3.5 Hz, 1H), 6.98 (dd, *J* = 5.1, 3.6 Hz, 1H), 5.91 (d, *J* = **18.1 Hz**, 1H), 1.30 (s, 12H).



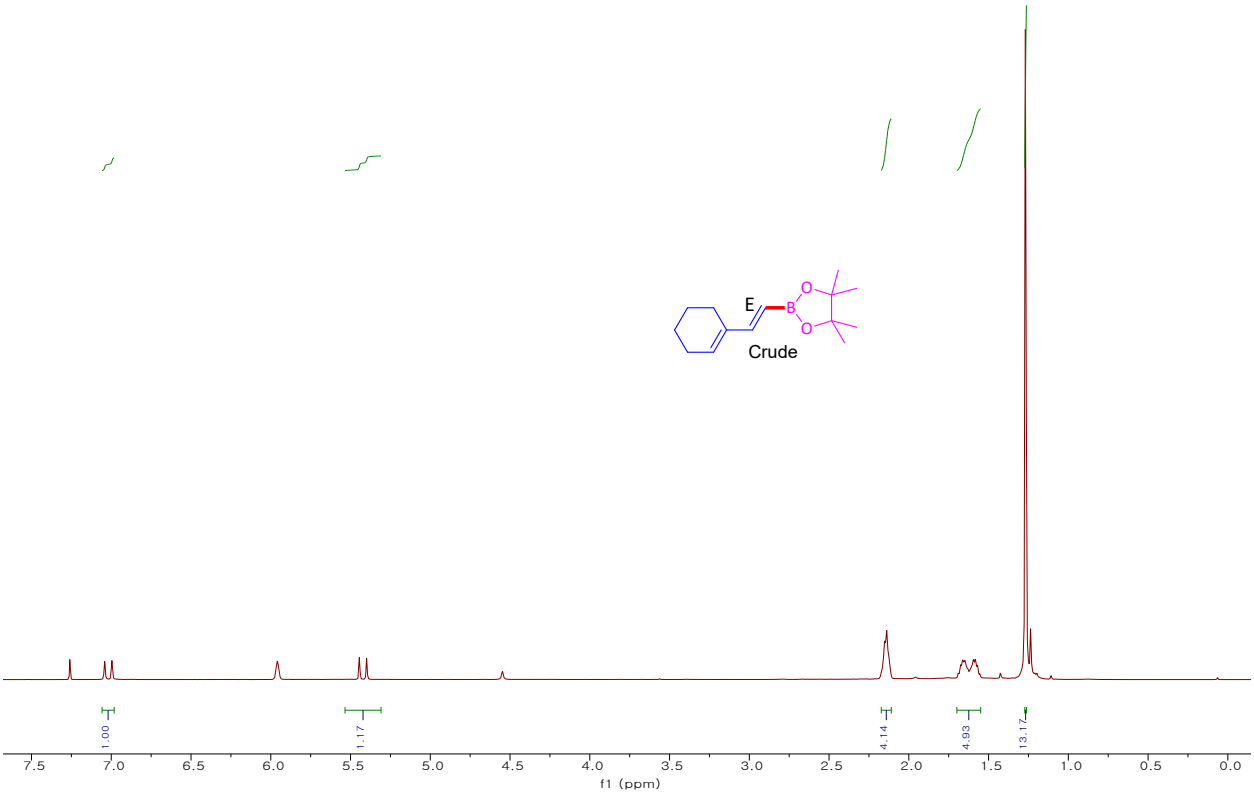
^{1}H NMR (400 MHz, Chloroform-*d*) δ 8.60 (d, *J* = 4.8 Hz, 1H), 7.65 (td, *J* = 7.7, 1.8 Hz, 1H), 7.49 – 7.38 (m, 2H), 7.17 (dd, *J* = 7.5, 4.8 Hz, 1H), 6.63 (d, *J* = **18.3 Hz**, 1H), 1.31 (s, 12H).



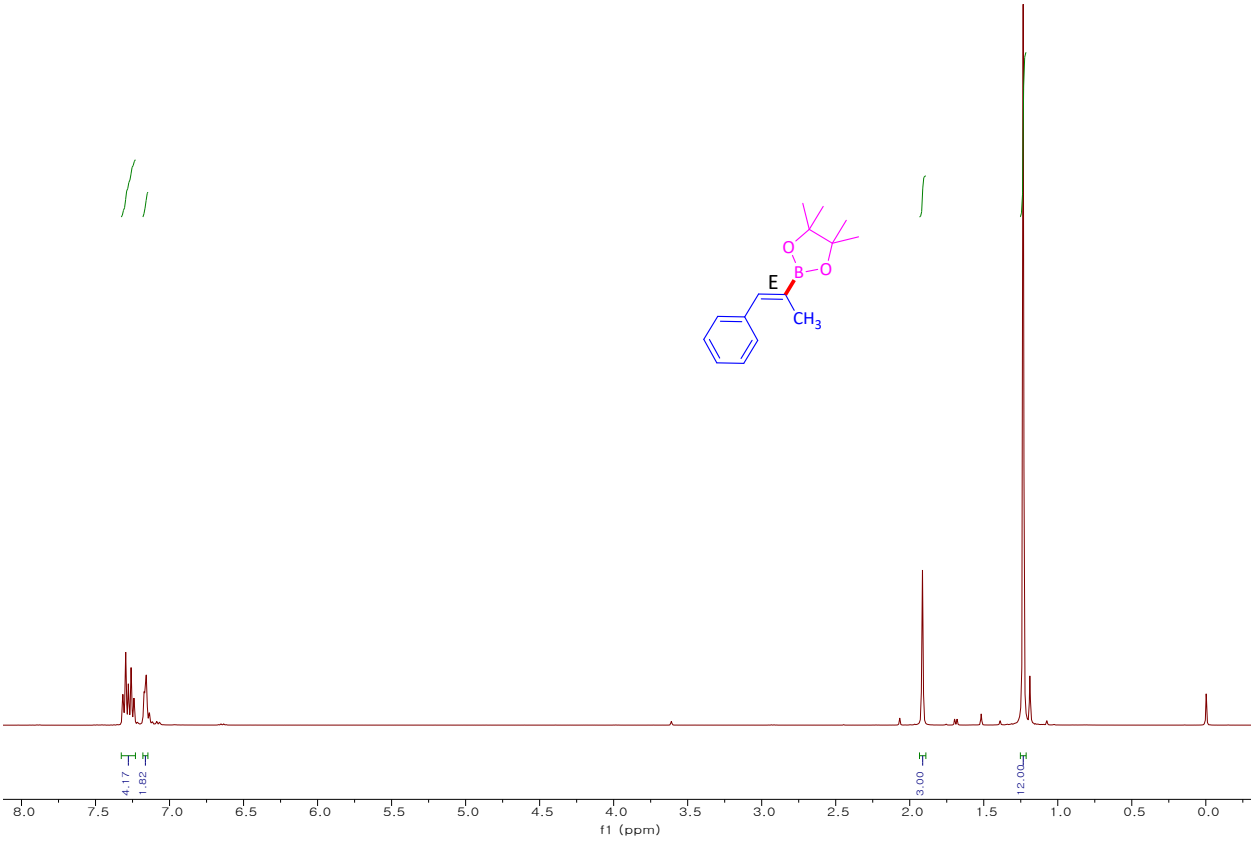
^{1}H NMR (400 MHz, Chloroform-*d*) δ 6.96 (dd, *J* = 31.7, 20.7 Hz, 3H), 6.58 (d, *J* = 14.0 Hz, 3H), 5.67 (d, *J* = **18.4 Hz**, 1H), 2.73 (d, *J* = 19.4 Hz, 3H), 2.04 – 1.66 (m, 7H), 1.34 (s, 12H), 1.26 (s, 8H), 0.86 (s, 3H).



^{1}H NMR (400 MHz, Chloroform-*d*) δ 7.02 (d, *J* = 18.3 Hz, 1H), 5.42 (d, *J* = **18.2 Hz**, 1H), 2.15 (q, *J* = 6.0, 4.9 Hz, 4H), 1.70 – 1.55 (m, 5H), 1.27 (d, *J* = 1.4 Hz, 13H).



^{1}H NMR (400 MHz, Chloroform-*d*) δ 7.28 (dt, *J* = 15.1, 7.7 Hz, 4H), 7.18 – 7.15 (m, 2H), 1.92 (d, *J* = 1.8 Hz, 3H), 1.23 (d, *J* = 1.4 Hz, 12H).



References

(1) M. Aelterman, M. Sayes, P. Jubault, T. Poisson, *Chem*. *Eur*. *J*. 2021, ***27***, 8277-8282.

(2) X. Zeng, C. Gong, H. Guo, H. Xu, J. Zhang, J. Xie, *New J*. *Chem*., 2018, ***42***, 17346-17350.

(3) M. Zhong, Y. Gagne, T. O. Hope, X. Pannecoucke, M. Frenette, P. Jubault, T. Poisson, *Angew*. *Chem*. *Int*. *Ed*. 2021, ***60***, 14498-14503.

(4) B. Wang, L. Gao, H. Yang, G. Zheng, ACS *Appl*. *Mater*. *Interfaces* 2021, ***13***, 47530-47540.