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Electronic Supplementary Information

Palladium supported on hollow magnetic mesoporous spheres: a recoverable catalyst for hydrogenation and Suzuki reaction

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The catalytic conversion was estimated using GC (P.E. AutoSystem XL) or GC-MS (Agilent 6890N/5973N). The GC analysis conditions were as follows: FID, SE-54 capillary column (30m · 0.32mm · 0.331m), N_2 carrier gas.

1. The temperature program of analysis of hydrogenation reaction conversion:
   Gasificantion chamber temperature 230℃;
   Testing chamber temperature 240℃;
   Column temperature: starting temperature of 60℃ and retention time of 2min, heating rate 10℃/min, heated to 230℃ and retention time of 5min.
2. The temperature program of analysis of Suzuki reaction conversion:
   Gasificantion chamber temperature 220℃;
   Testing chamber temperature 230℃;
   Column temperature: starting temperature of 70℃ and retention time of 2min, heating rate 15℃/min, heated to 220℃ and retention time of 2min.

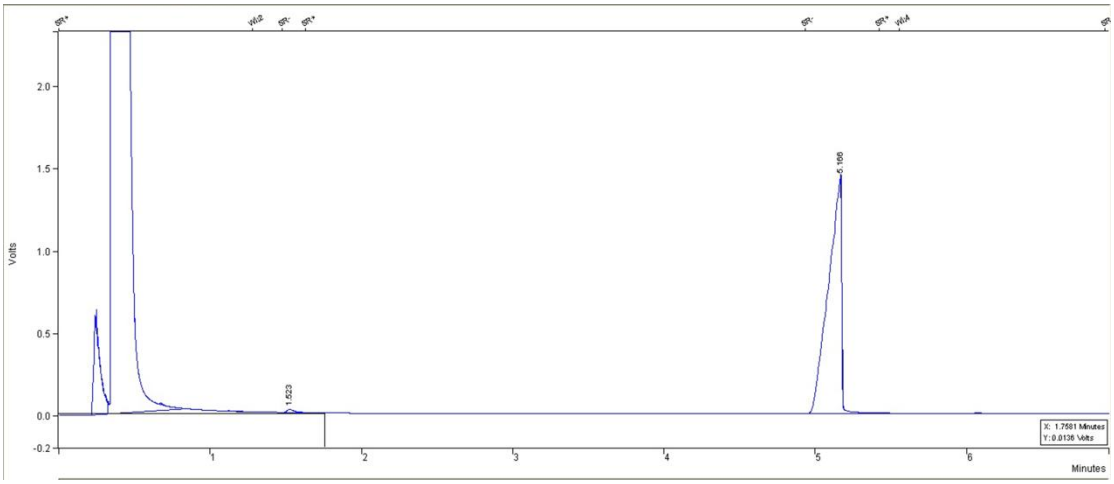

Fig. S1 Examples of the GC analysis result of Suzuki reaction of Table 4, Entry 1

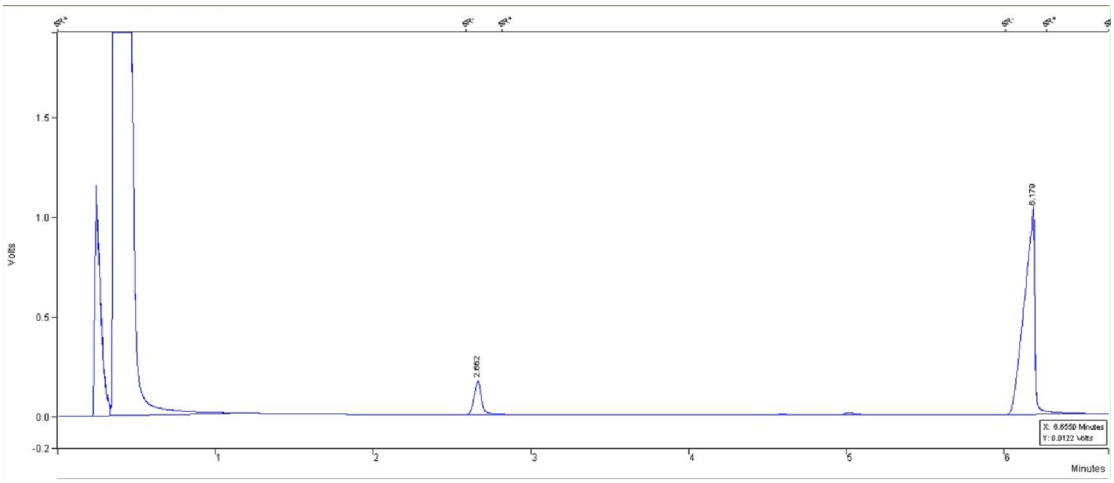

Fig. S2 Examples of the GC analysis result of Suzuki reaction of Table 4, Entry 2

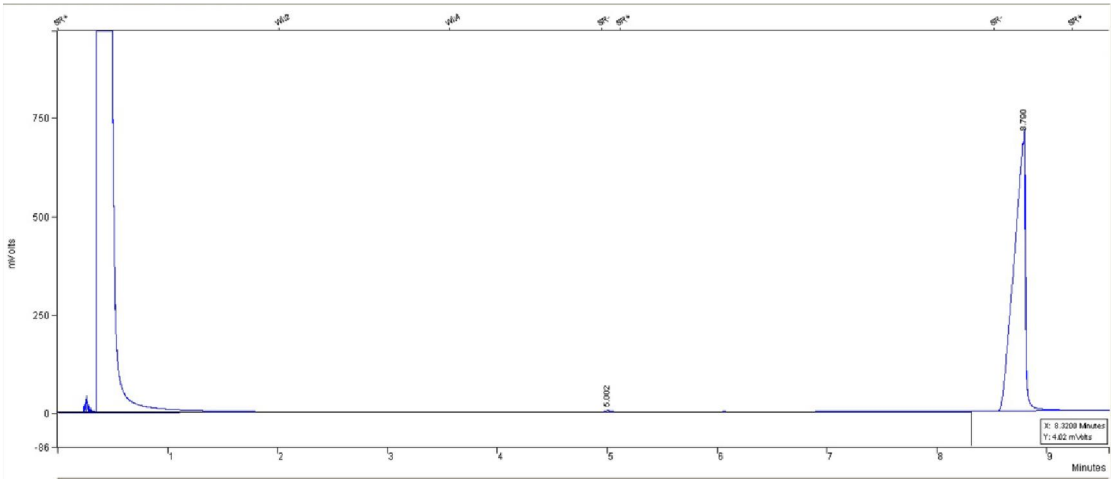

Fig. S3 Examples of the GC analysis result of Suzuki reaction of Table 4, Entry 4