**Electronic Supporting Information**

Application of Ni(II) complexes of air stable Schiff base functionalized N‑heterocyclic carbene ligands as catalysts for the transfer hydrogenation of aliphatic ketones

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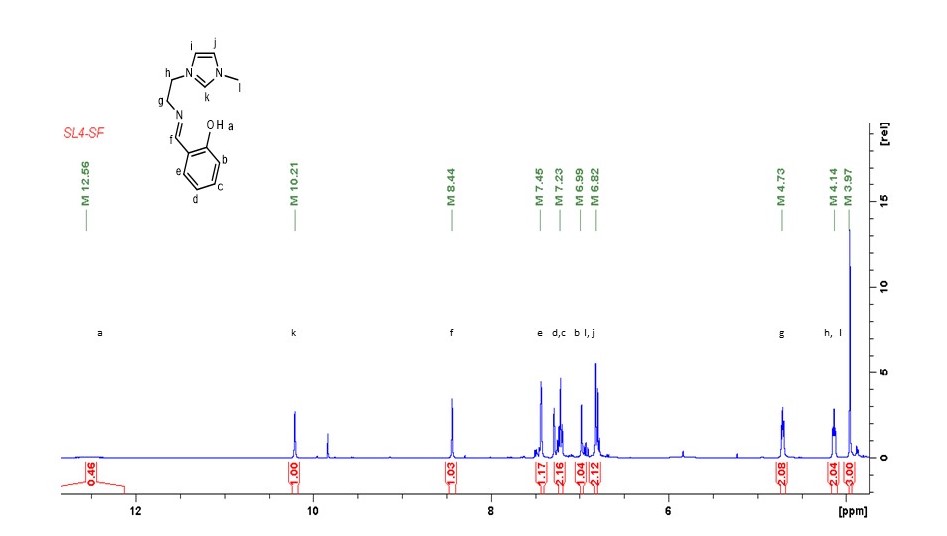


Figure S1. 1H NMR Spectrum of compound **2** in CDCl3.

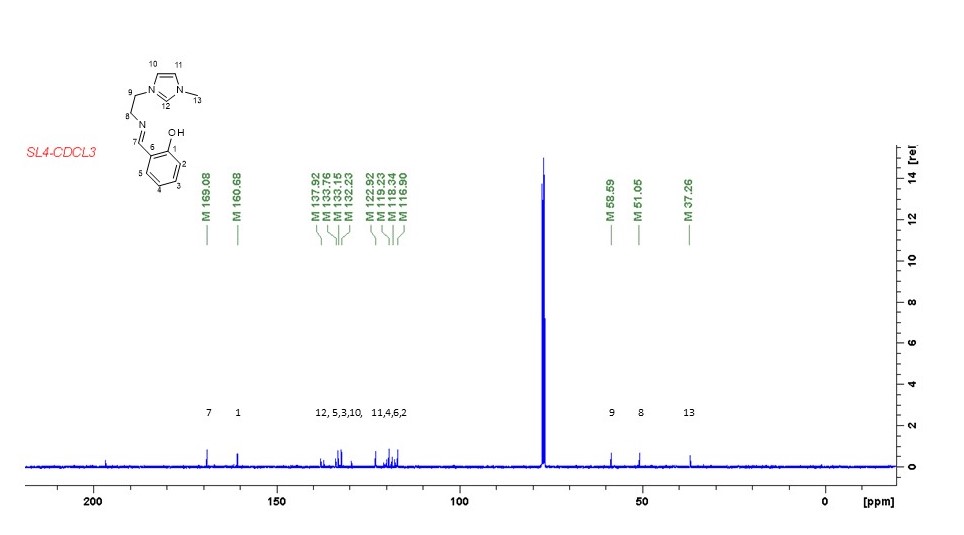


Figure S2. 13C NMR Spectrum of compound **2** in CDCl3.

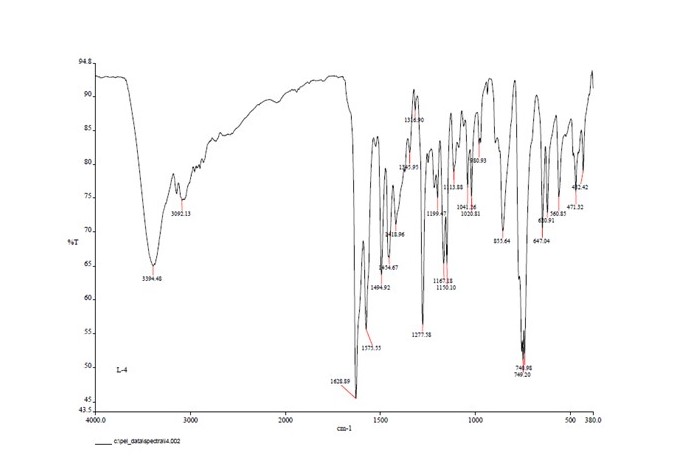


Figure S3. IR Spectrum of **2**.

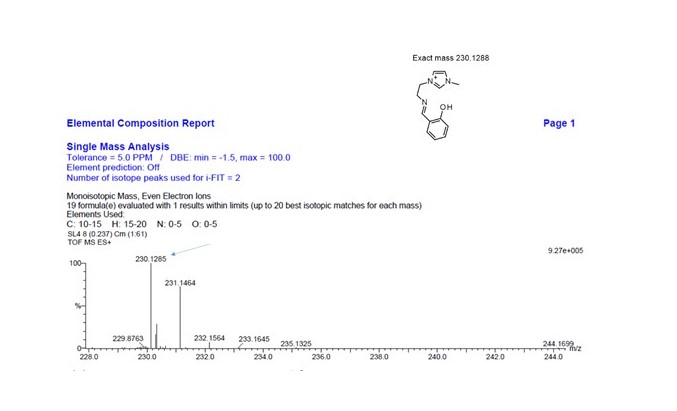


Figure S4. TOF MS ES+ of **2**.

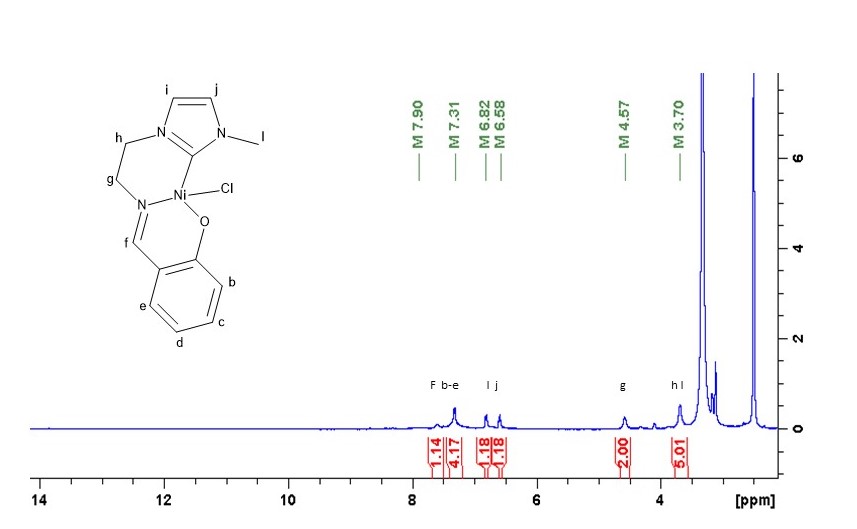


Figure S5. 1H NMR Spectrum of **5** in DMSO-d6.

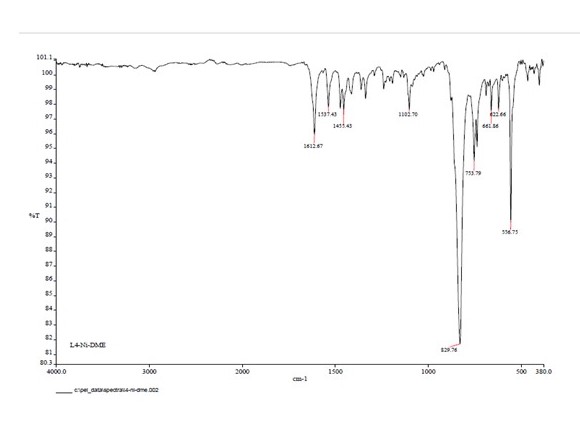


Figure S6. 1H IR Spectrum of **5**.

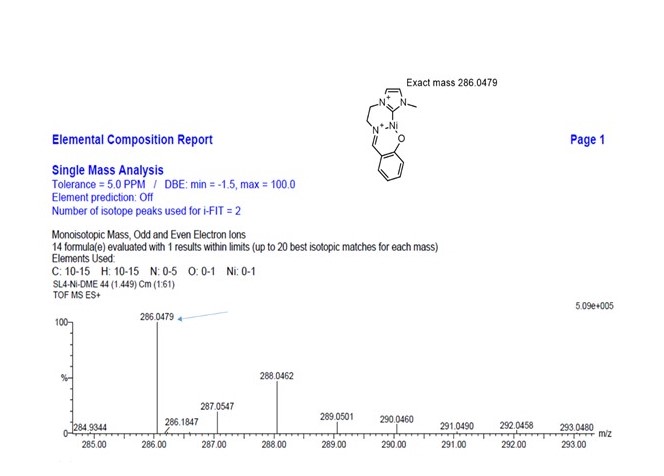


Figure S7. TOF MS ES+ of **5**.

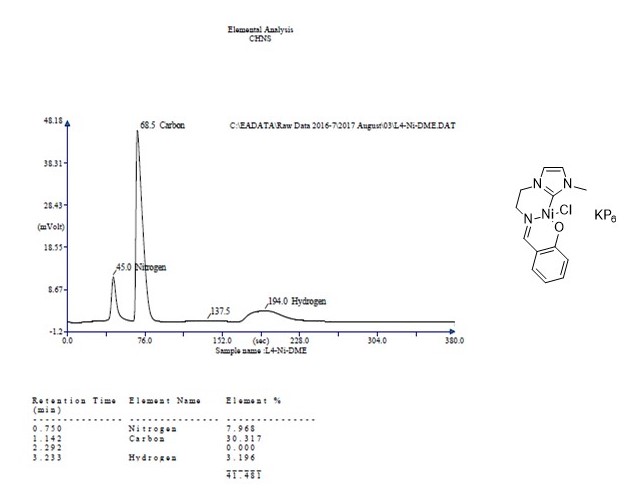


Figure S8. Elemental analysis of **5**.



Figure S9. 1H NMR spectrum of **6** in DMSO-d6.

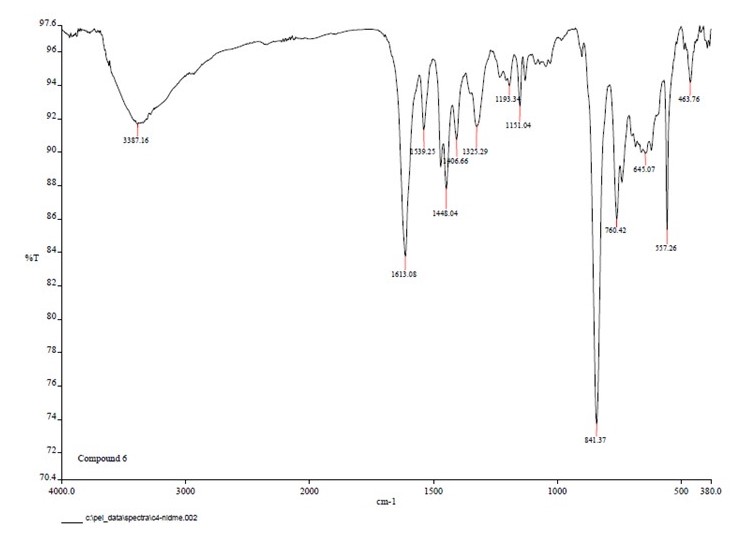


Figure 10. IR Spectrum of **6**.

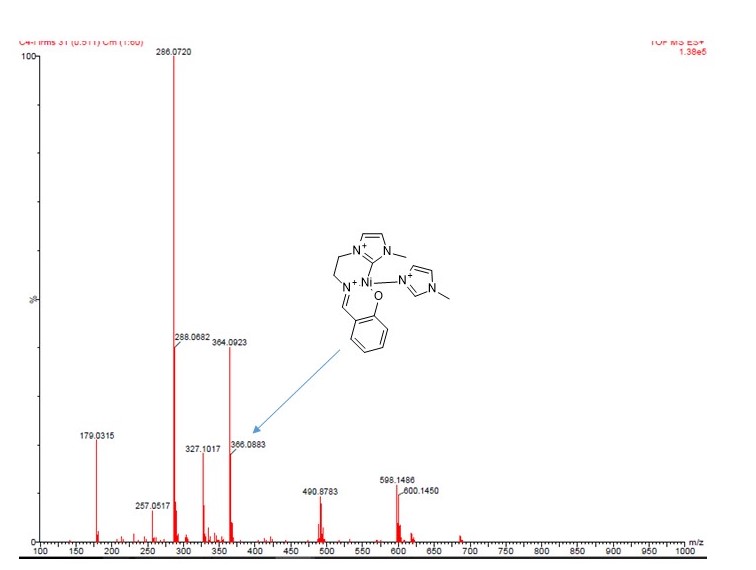


Figure S11. TOF MS ES+ of **6**.

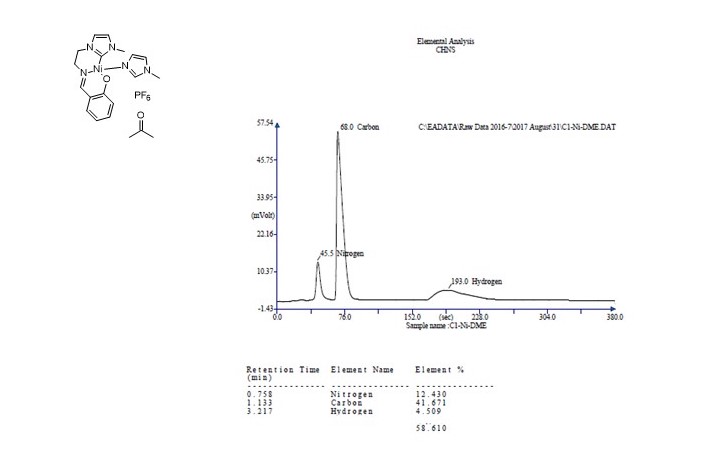


Figure S12. Elemental analysis results of **6**.

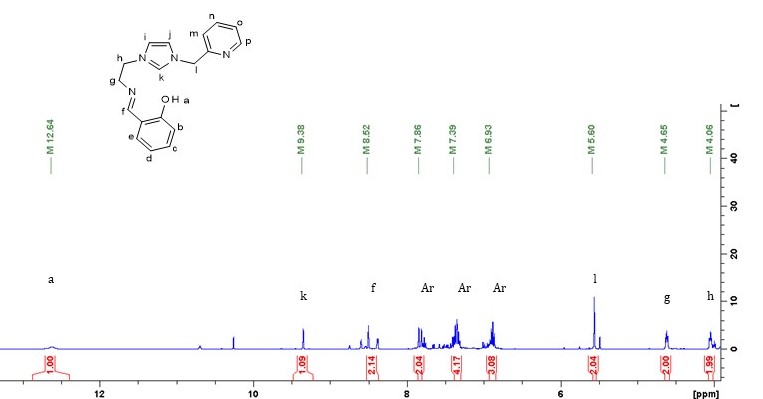


Figure S13. 1H NMR Spectrum of **3** in DMSO-d6.

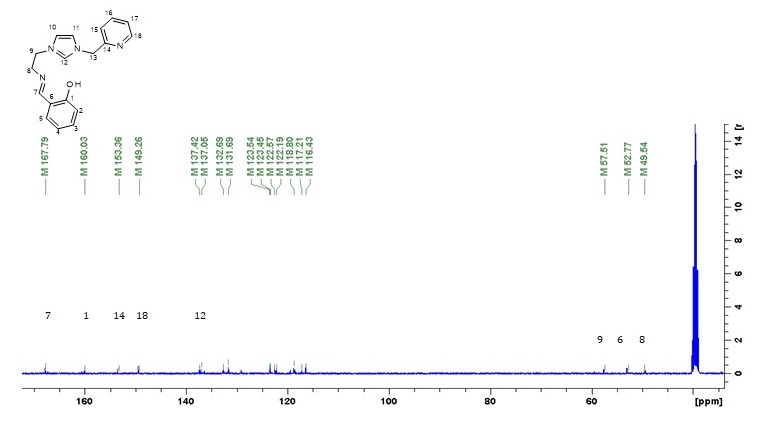


Figure S14. 13C NMR Spectrum of **3** in DMSO-d6.

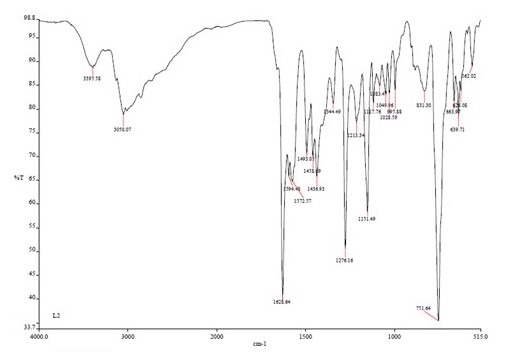


Figure S15. IR Spectrum of **3**.

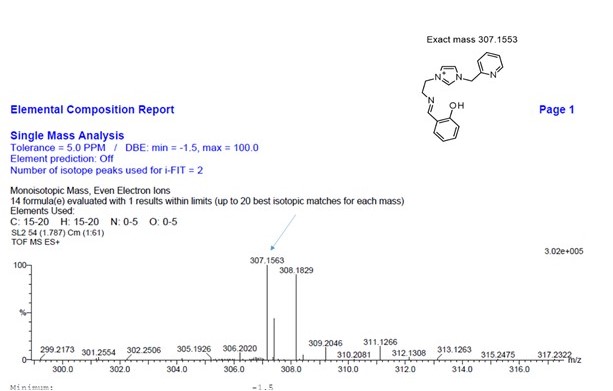


Figure S16. TOF MS ES+ of **3**.

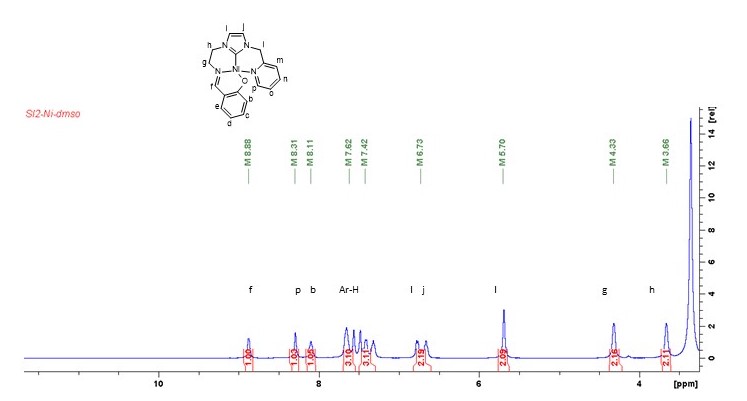


Figure S17. 1H NMR Spectrum of **4** in DMSO-d6.

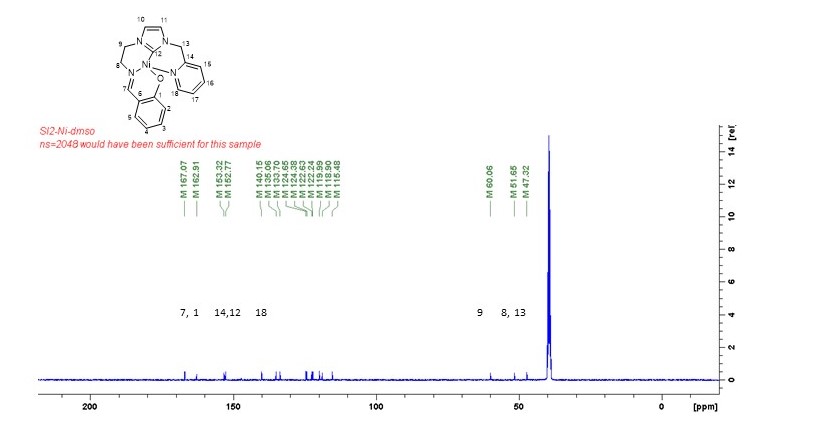


Figure S18. 13C NMR Spectrum of **4** in DMSO-d6.

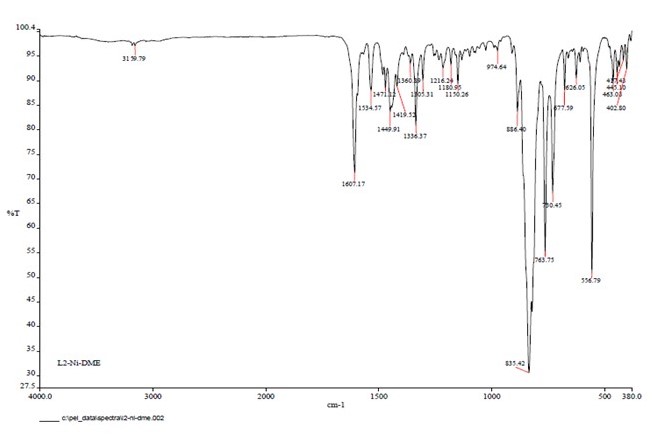


Figure S19. ATR IR Spectrum of **4**.

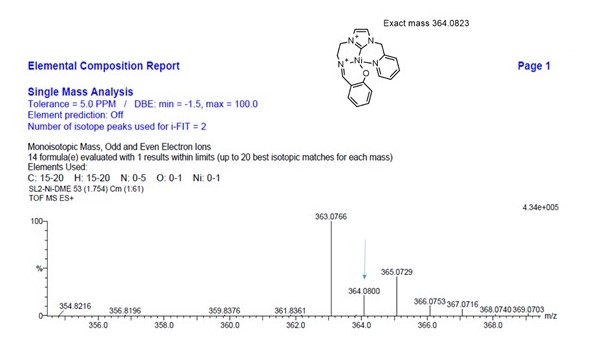


Figure S20. TOF MS ES+ of **4**.

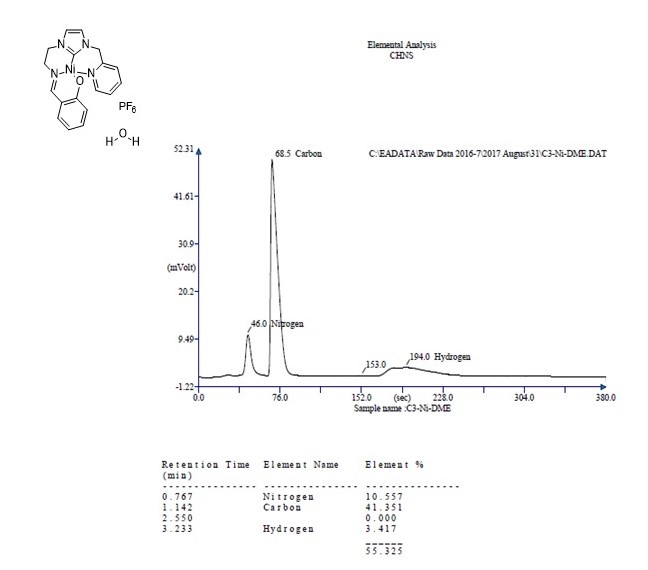


Figure S21. Elemental analysis results of **4**.