

NMR Studies on 1,3-Dipolar Cycloaddition of Nitrile Oxides to Norbornenes

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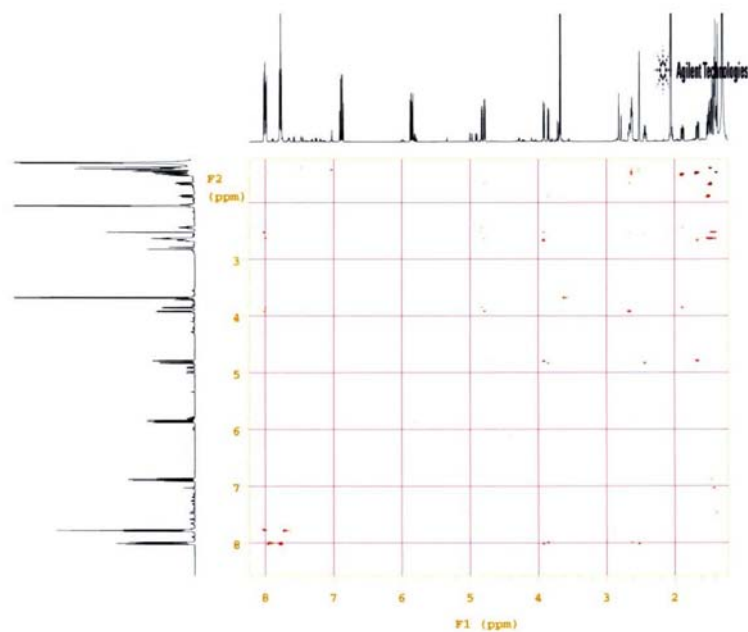


Figure S1. ^1H NOESY spectrum (acetone- d_6 , 600 MHz) of **7a** and **8a**.

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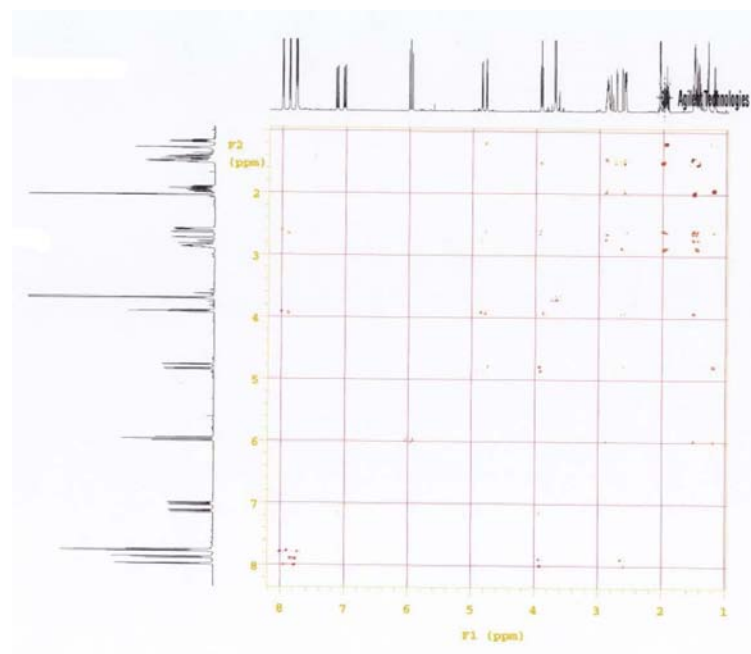


Figure S2. ¹H NOESY spectrum (acetone-*d*₆, 600 MHz) of **7b** and **8b**.

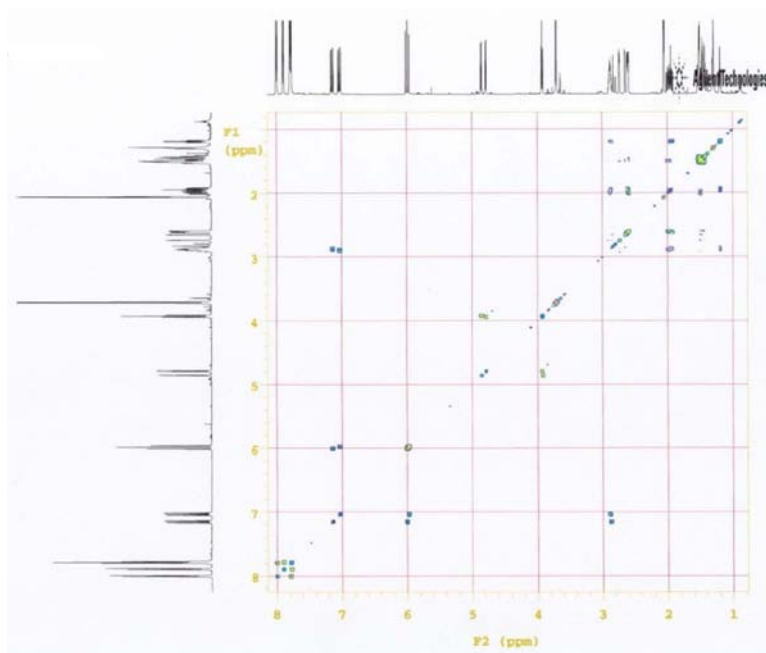


Figure S3. ¹H COSY spectrum (acetone-*d*₆, 600 MHz) of **7b** and **8b**.

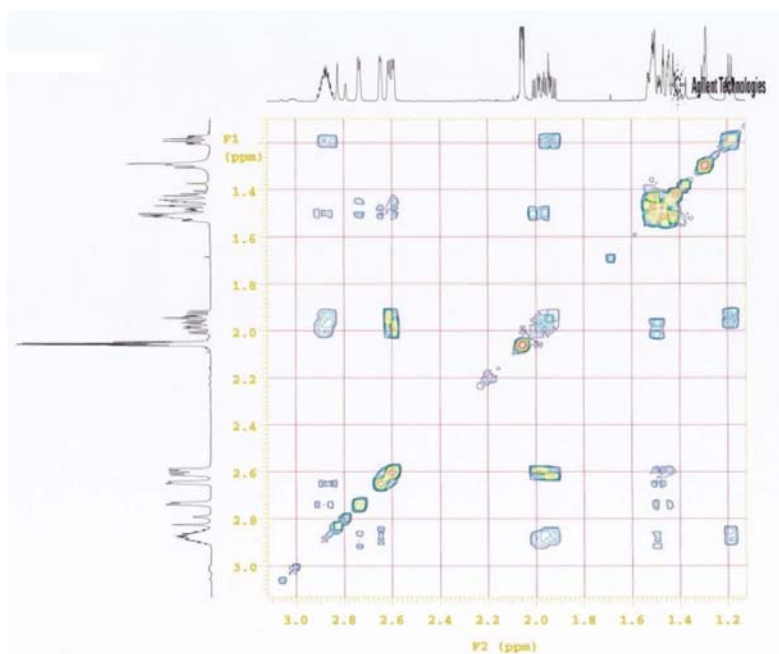


Figure S4. ^1H COSY spectrum (expansion) (acetone- d_6 , 600 MHz) of **7b** and **8b**.

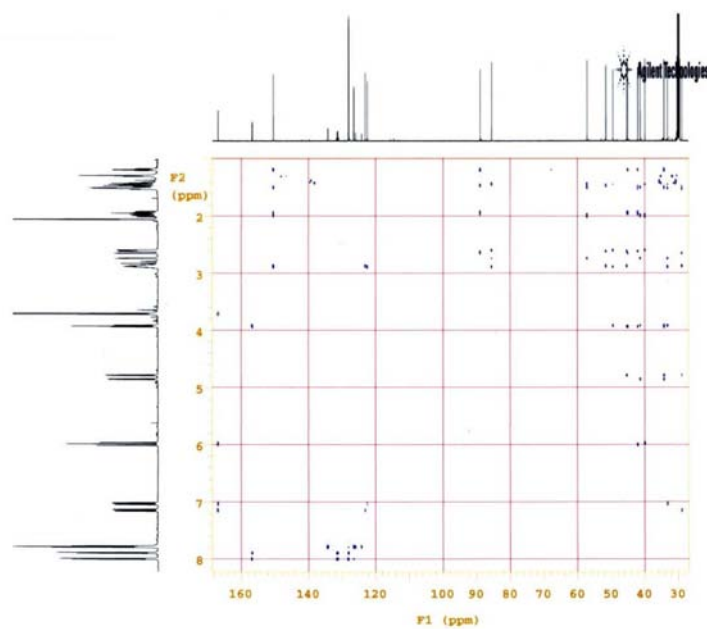


Figure S5. ^1H - ^{13}C HMBC spectrum (acetone- d_6 , 600 MHz) of **7b** and **8b**.

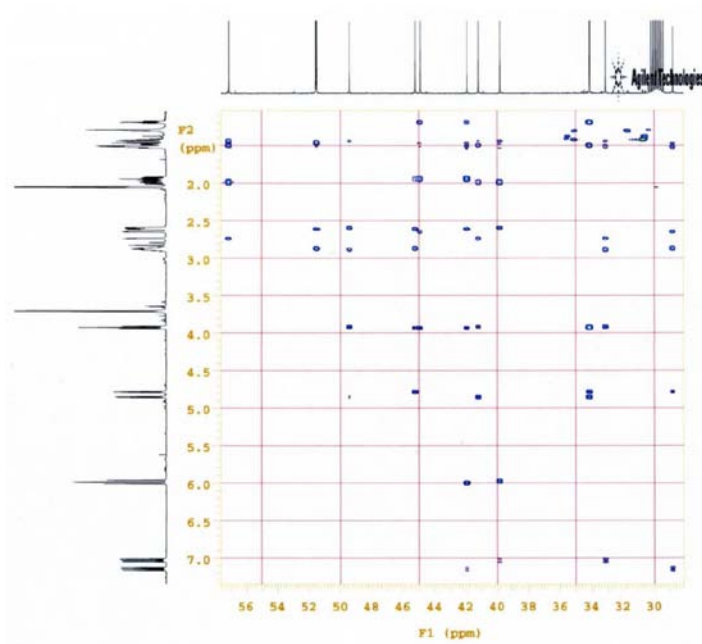


Figure S6. ^1H - ^{13}C HMBC spectrum (an expansion) (acetone- d_6 , 600 MHz) of **7b** and **8b**.

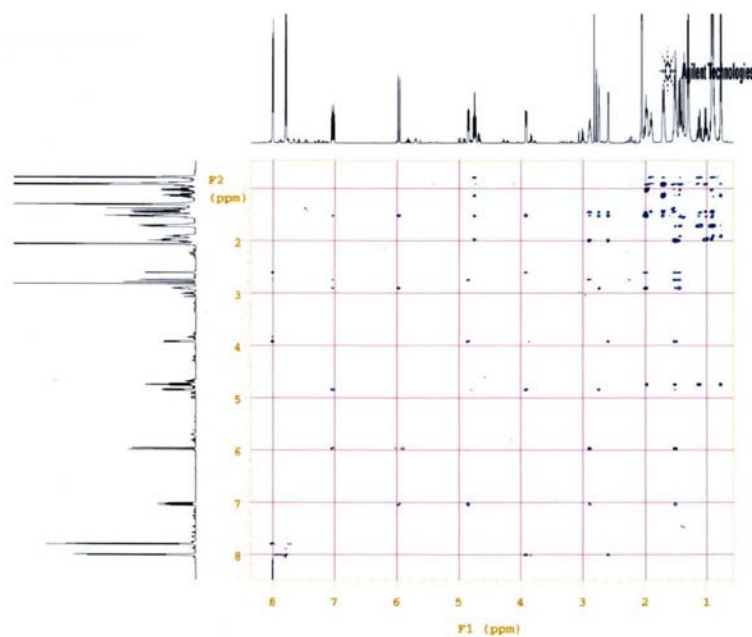


Figure S7. ^1H NOESY spectrum (acetone- d_6 , 600 MHz) of **9a**.

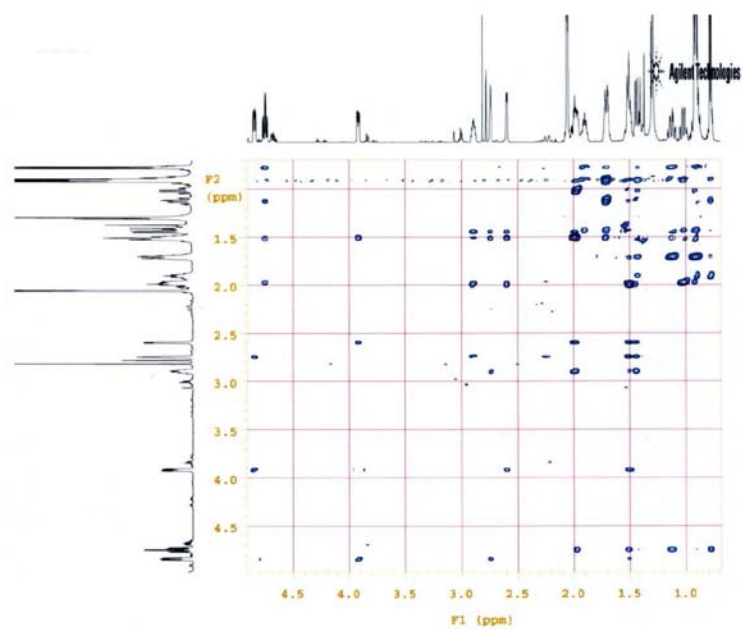


Figure S8. ^1H NOESY spectrum (an expansion) (acetone- d_6 , 600 MHz) of **9a**.

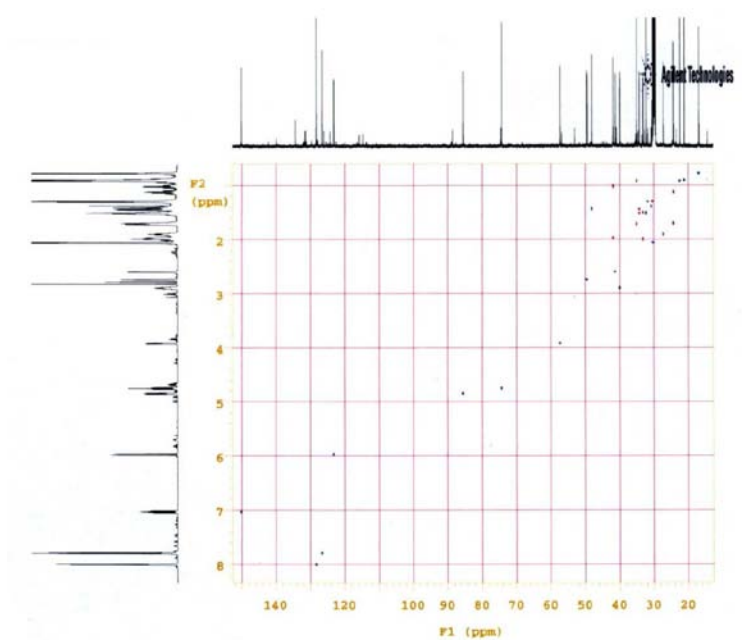


Figure S9. ^1H - ^{13}C HSQC spectrum (acetone- d_6 , 600 MHz) of diastereoisomer **9a**.

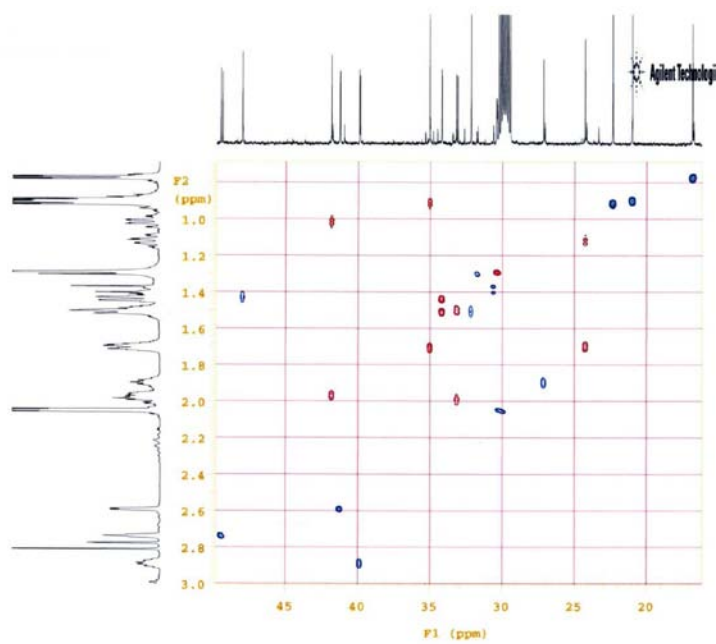


Figure S10. ^1H - ^{13}C HSQC spectrum (an expansion) (acetone- d_6 , 600 MHz) of **9a**.

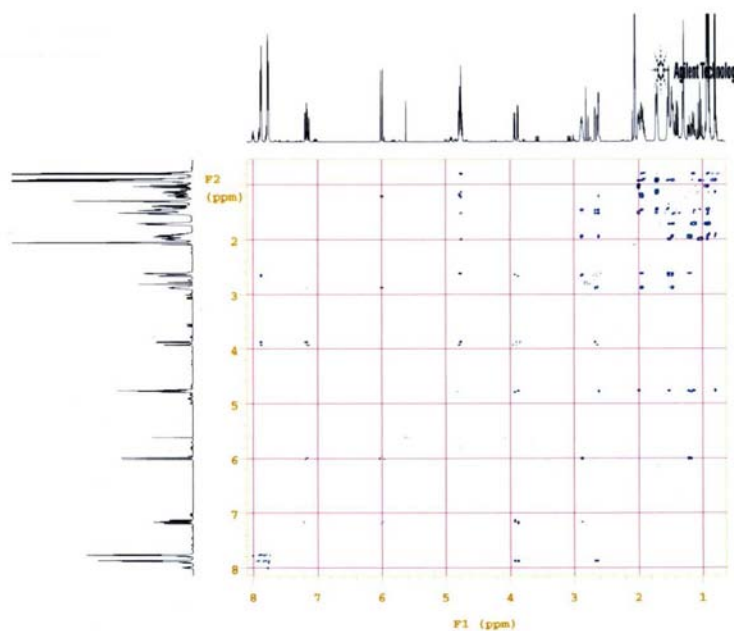


Figure S11. ^1H NOESY spectrum (acetone- d_6 , 600 MHz) of **10a** (symmetric 2D, 6281.4 Hz), acquisition time 0.35 s, mixing time 500 ms, relaxation time 1 s, 8 scans, 400 increment for a scan, total of time 3 h 22 min).

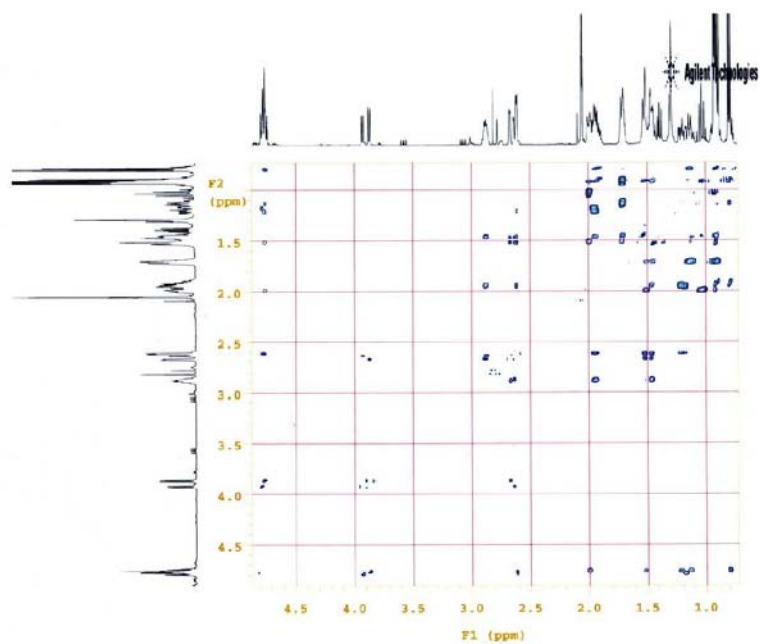


Figure S12. ^1H NOESY spectrum (an expansion) (acetone- d_6 , 600 MHz) of **10a**.

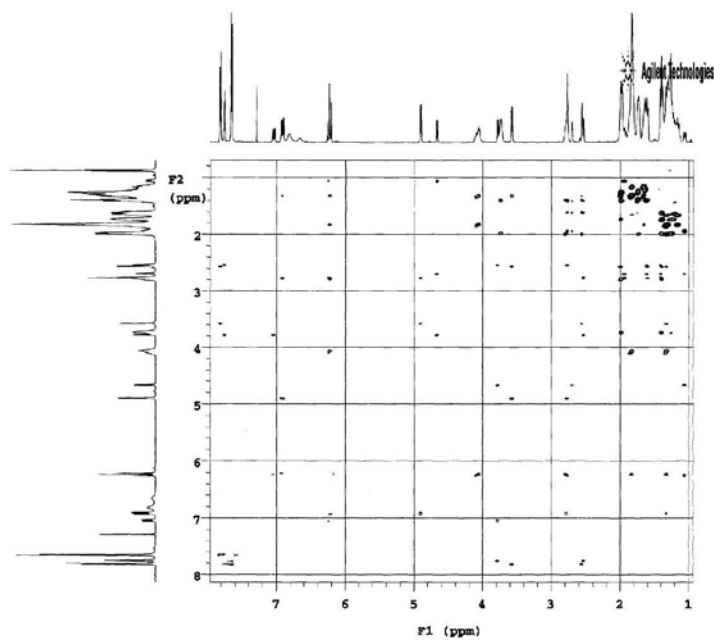


Figure S13. ^1H NOESY spectrum (CDCl_3 , 600 MHz) of **11a** and **11b**.

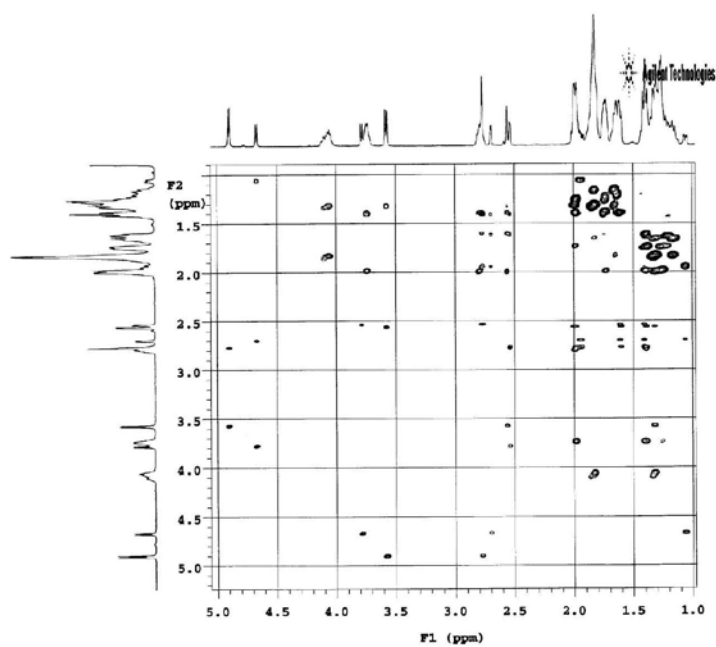


Figure S14. ¹H NOESY spectrum (an expansion) (CDCl₃, 600 MHz) of **11a** and **11b**.