

## Supplementary Information

# One pot synthesis of 1,3,4-oxadiazoles by Lewis acid catalyst and their study of 2D-QSAR, antimicrobial and anti-tubercular activities

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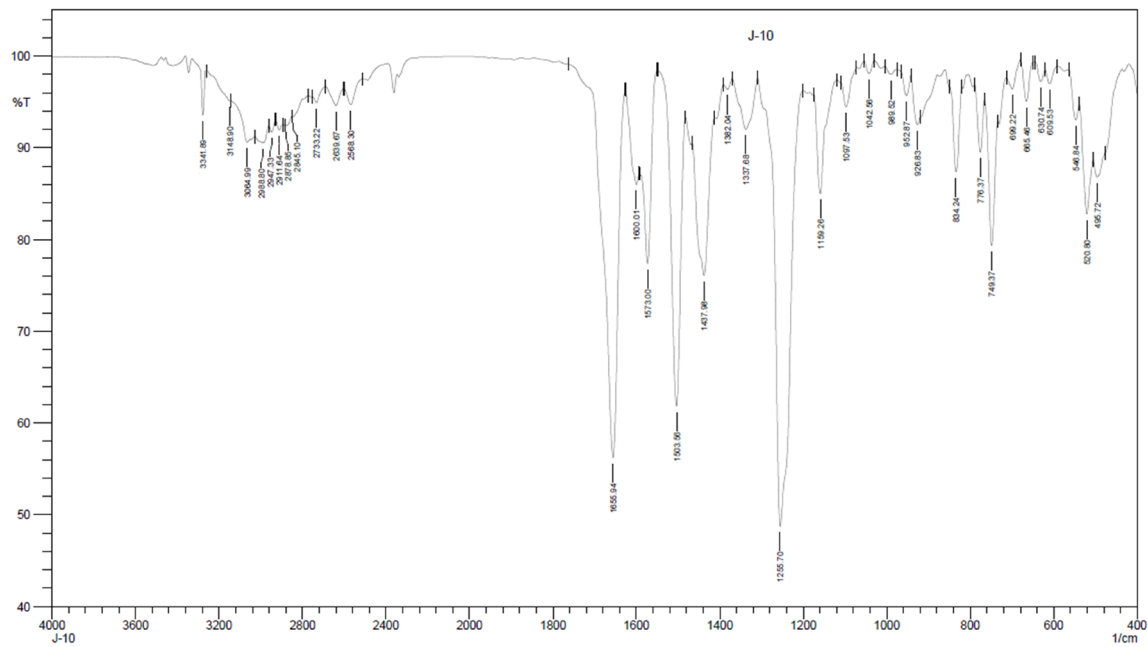
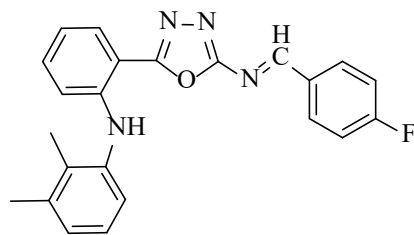


Fig. S1 — IR spectrum of A<sub>3</sub>

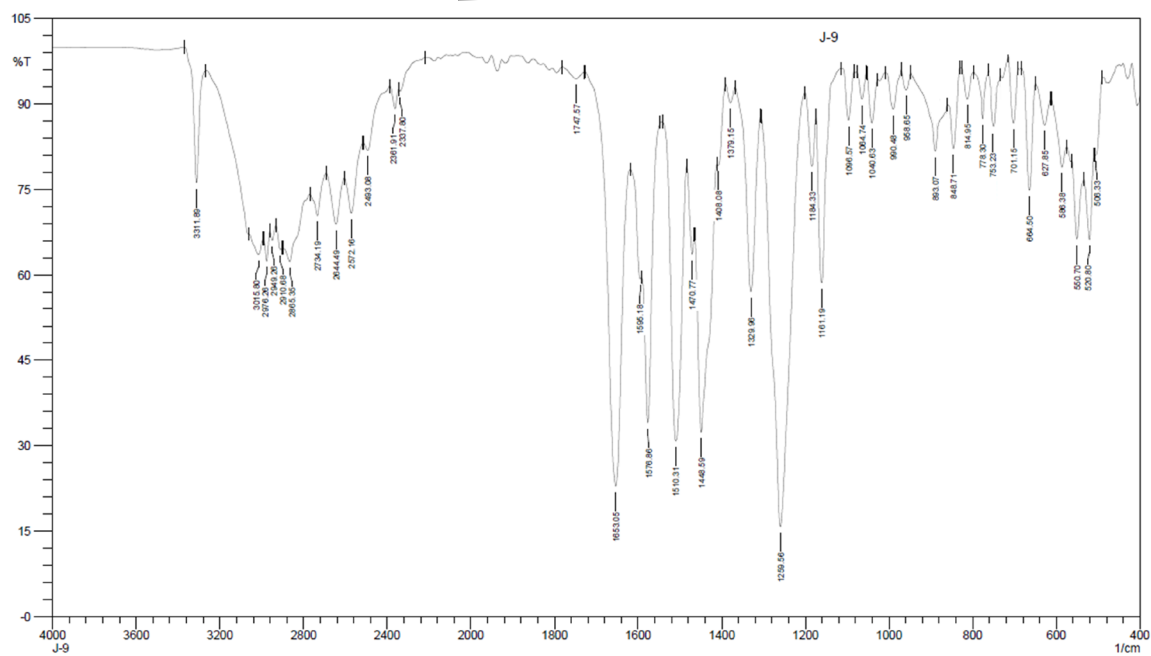
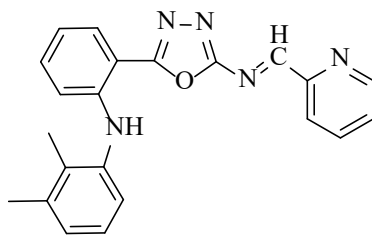


Fig. S2 — IR spectrum of A<sub>4</sub>

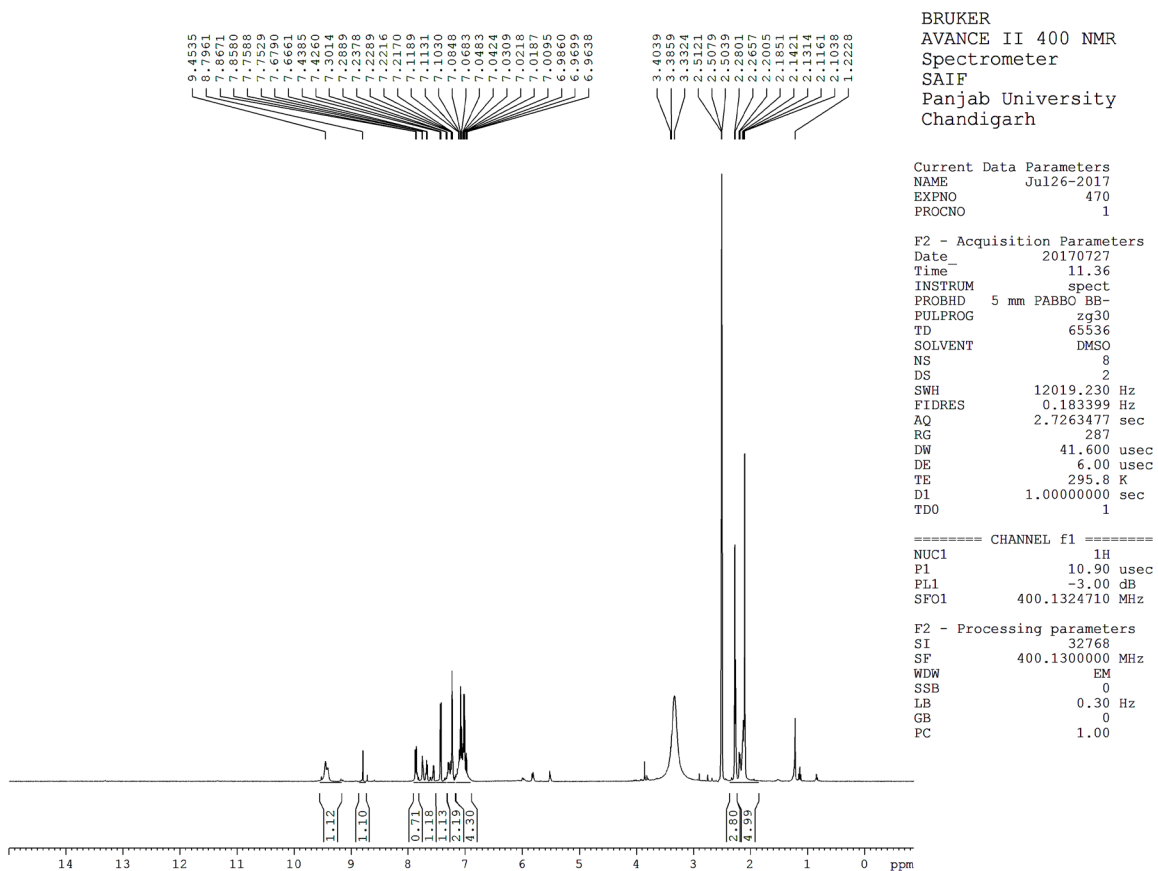
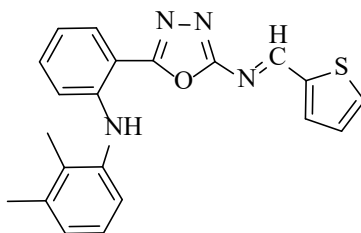


Fig. S3 — <sup>1</sup>H NMR spectrum of A<sub>1</sub>



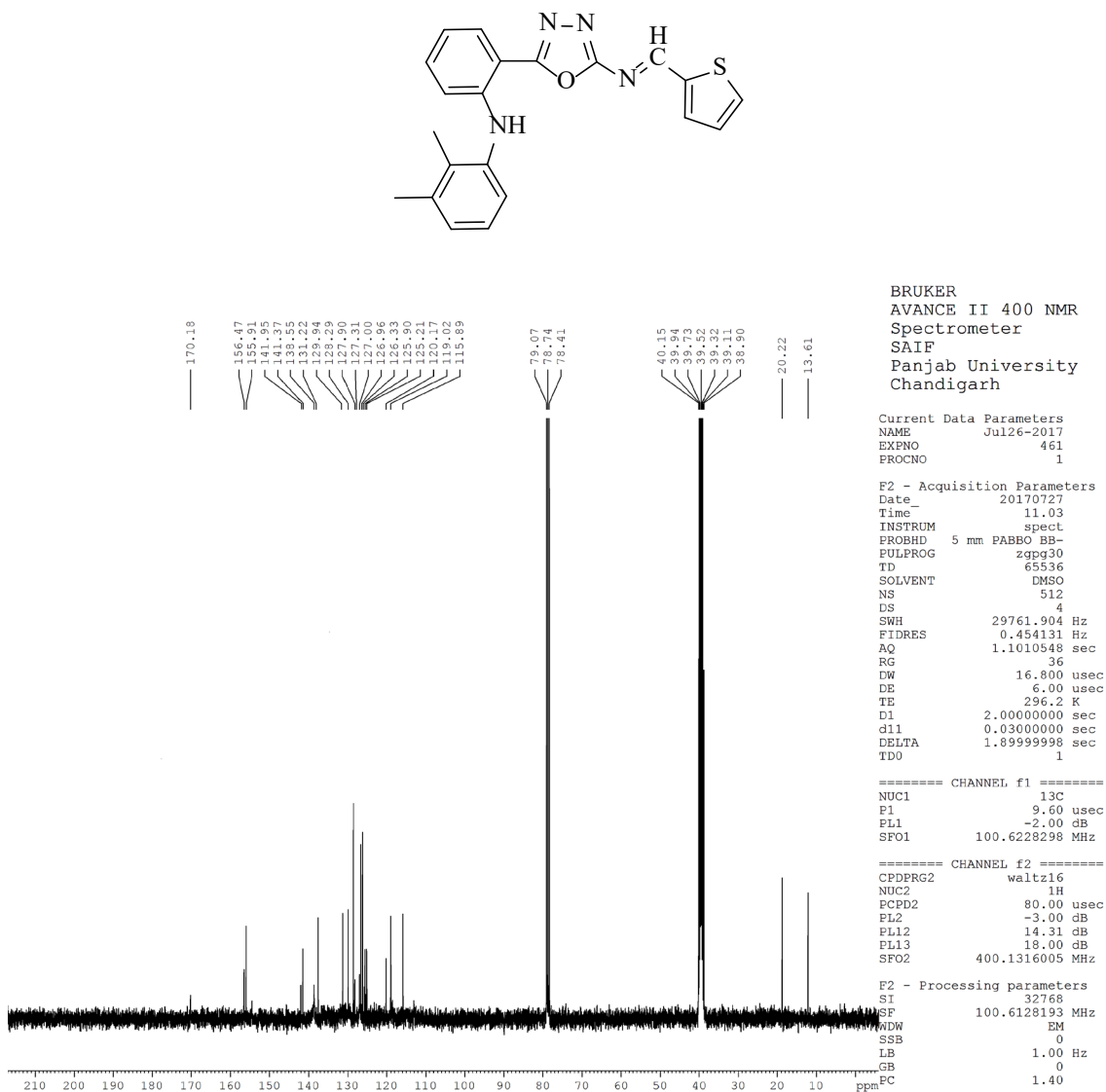


Fig. S5 — <sup>13</sup>C NMR spectrum of **A<sub>1</sub>**

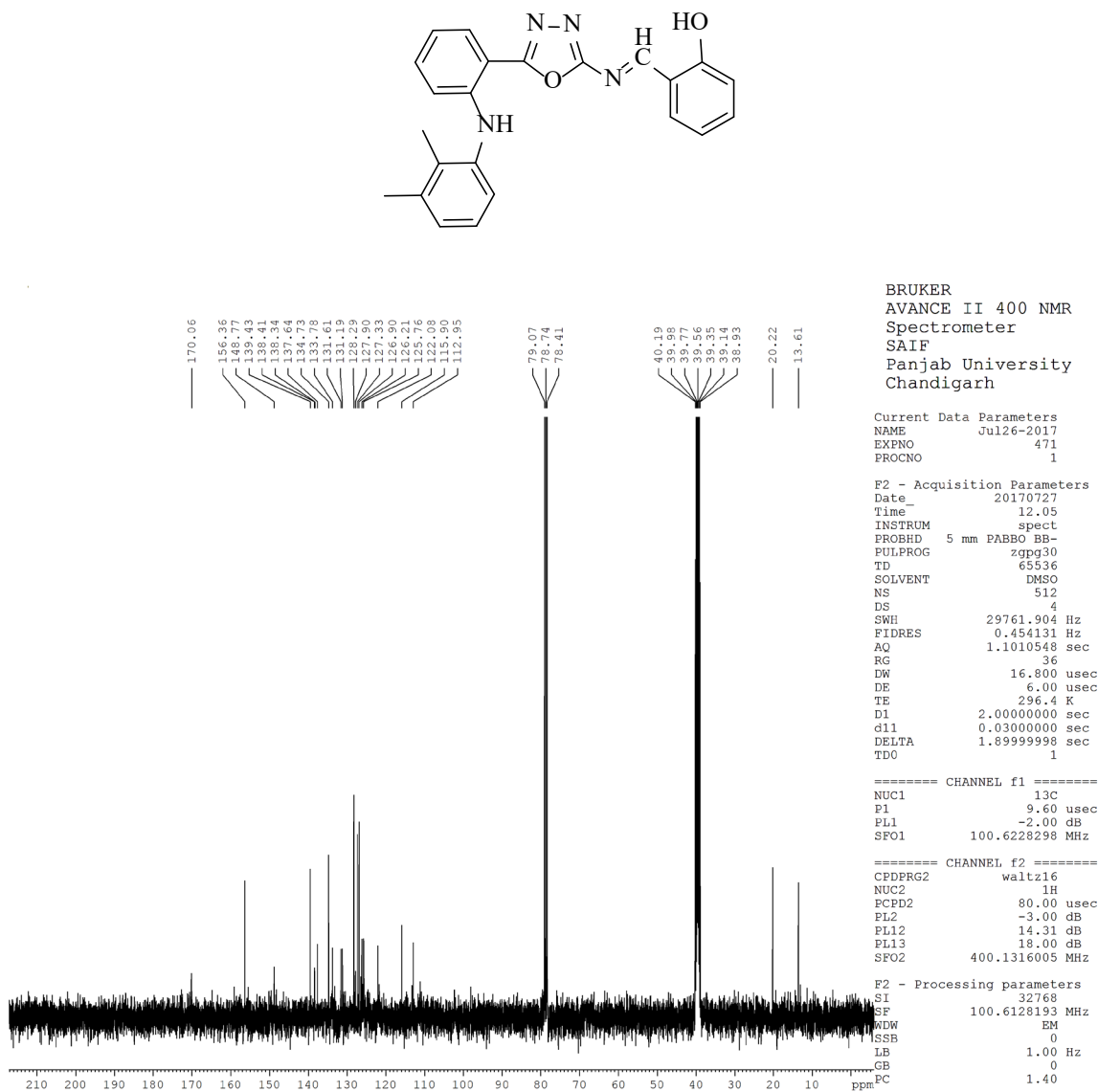
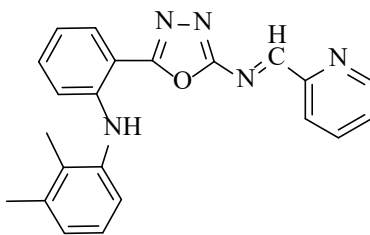


Fig. S6 — <sup>13</sup>C NMR spectrum of A<sub>2</sub>



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+

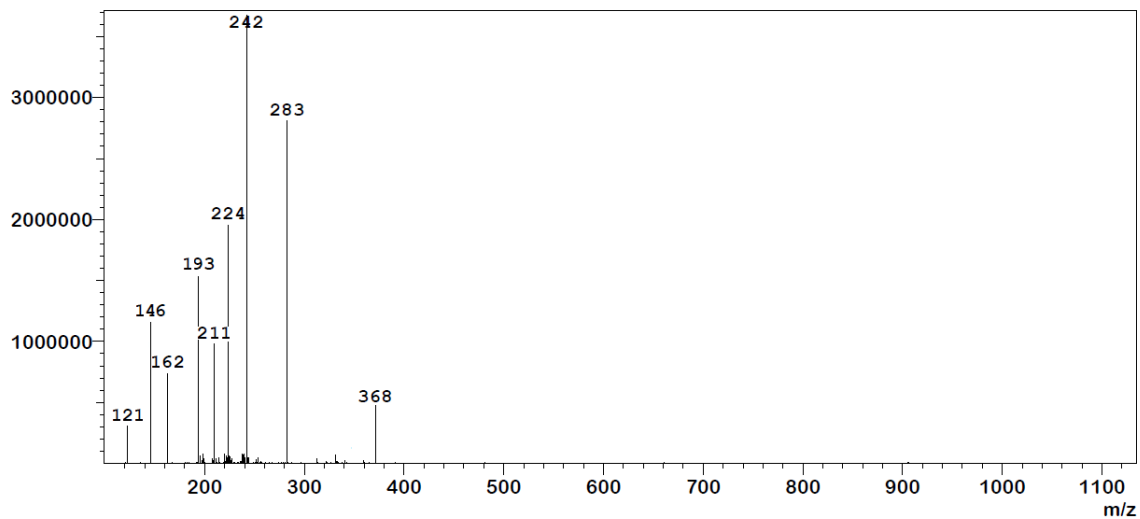


Fig. S7 — Mass spectrum of A<sub>4</sub>

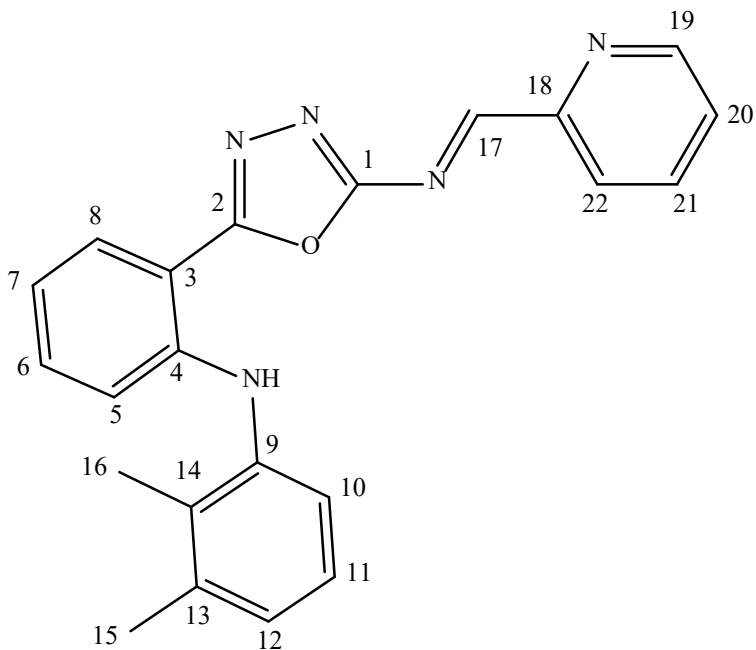


Fig. S8 — Carbon numbering of A<sub>4</sub>