

## Supplementary Materials for

# 1-[1-(4-chlorobenzenesulfonyl)-1*H*-indole-3-yl]-3-[4-(pyridin-2-yl)piperazin-1-yl]propan-1-one

Benjamín Diethelm, Sebastián Almendras and Gonzalo Recabarren-Gajardo \*

Laboratorio de Síntesis de Heterociclos Bioactivos, Departamento de Farmacia, Facultad de Química, Pontificia Universidad Católica de Chile, Casilla 306, Avda. Vicuña Mackenna 4860, Macul 7820436, Santiago, Chile; bmdiethelm@uc.cl (B.D.); sialmend@uc.cl (S.A.)

\* Correspondence: grecabarren@uc.cl; Tel.: +56-223-541-418

## Contents

- |                              |         |
|------------------------------|---------|
| 1) NMR data of all compounds | S2-S11  |
| 2) IR data of all compounds  | S12-S16 |
| 3) Dose-response curve of 5  | S17     |

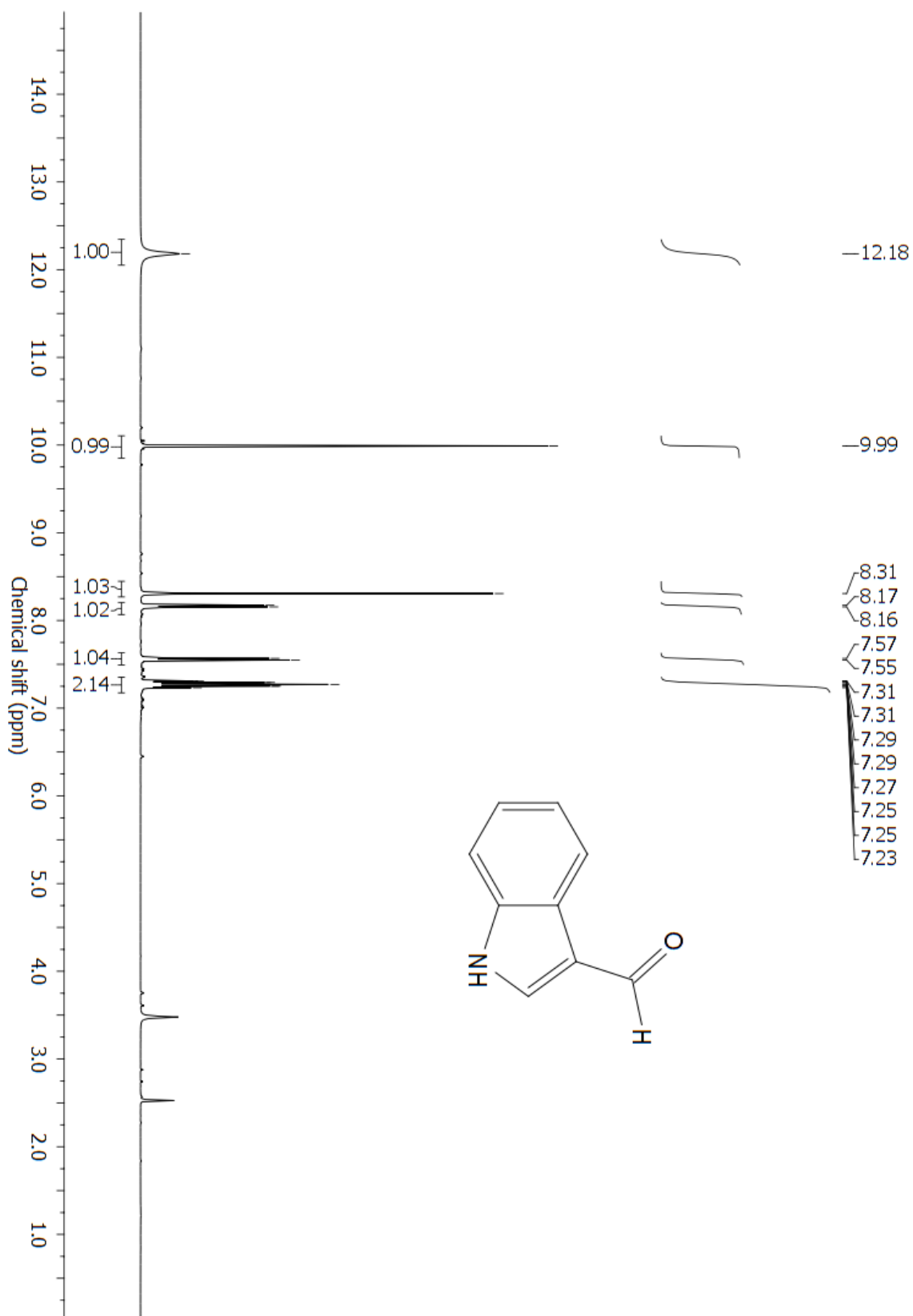


Figure S1. <sup>1</sup>H-NMR spectrum of **1**.

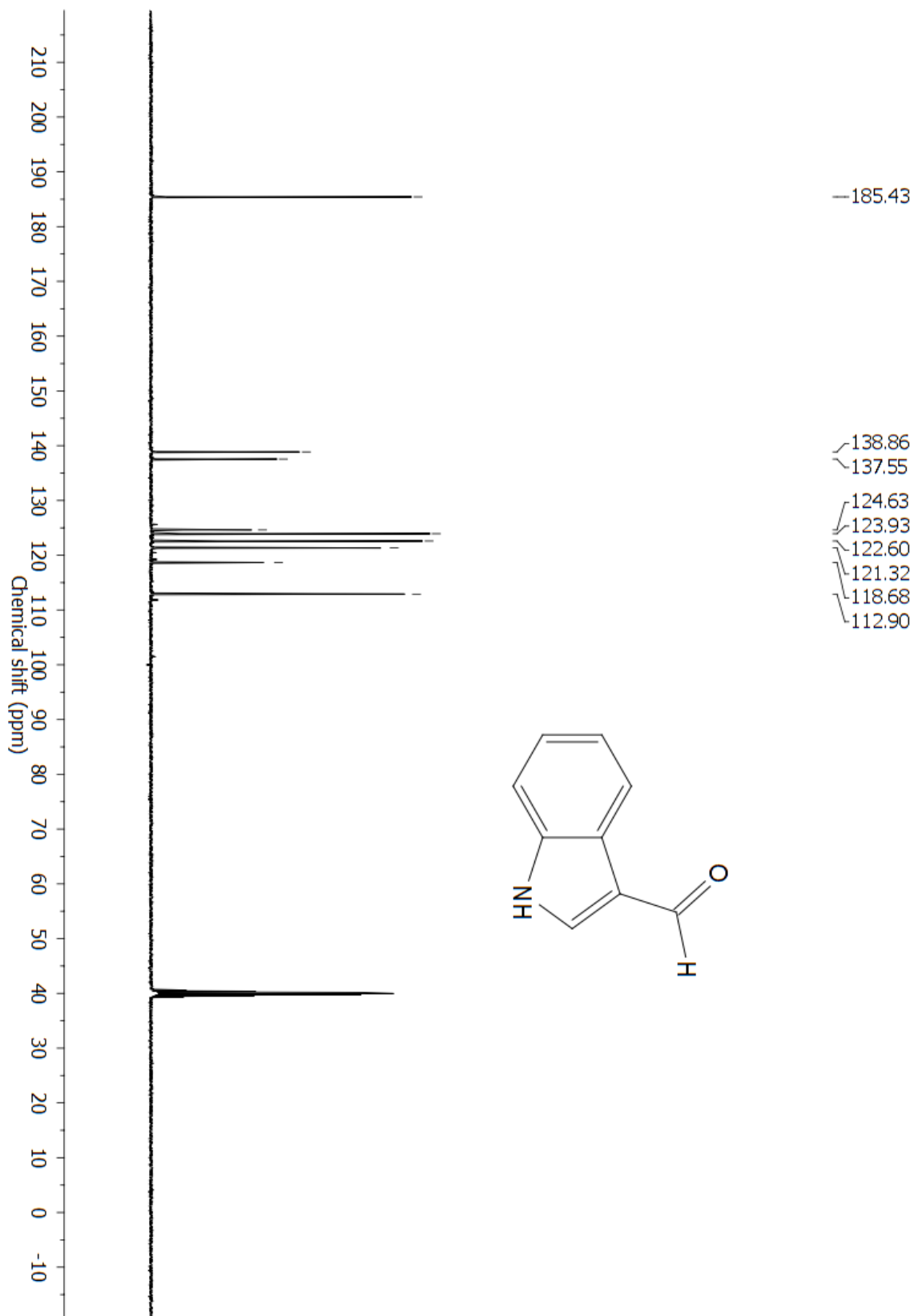


Figure S2.  $^{13}\text{C}$ -NMR spectrum of 1.

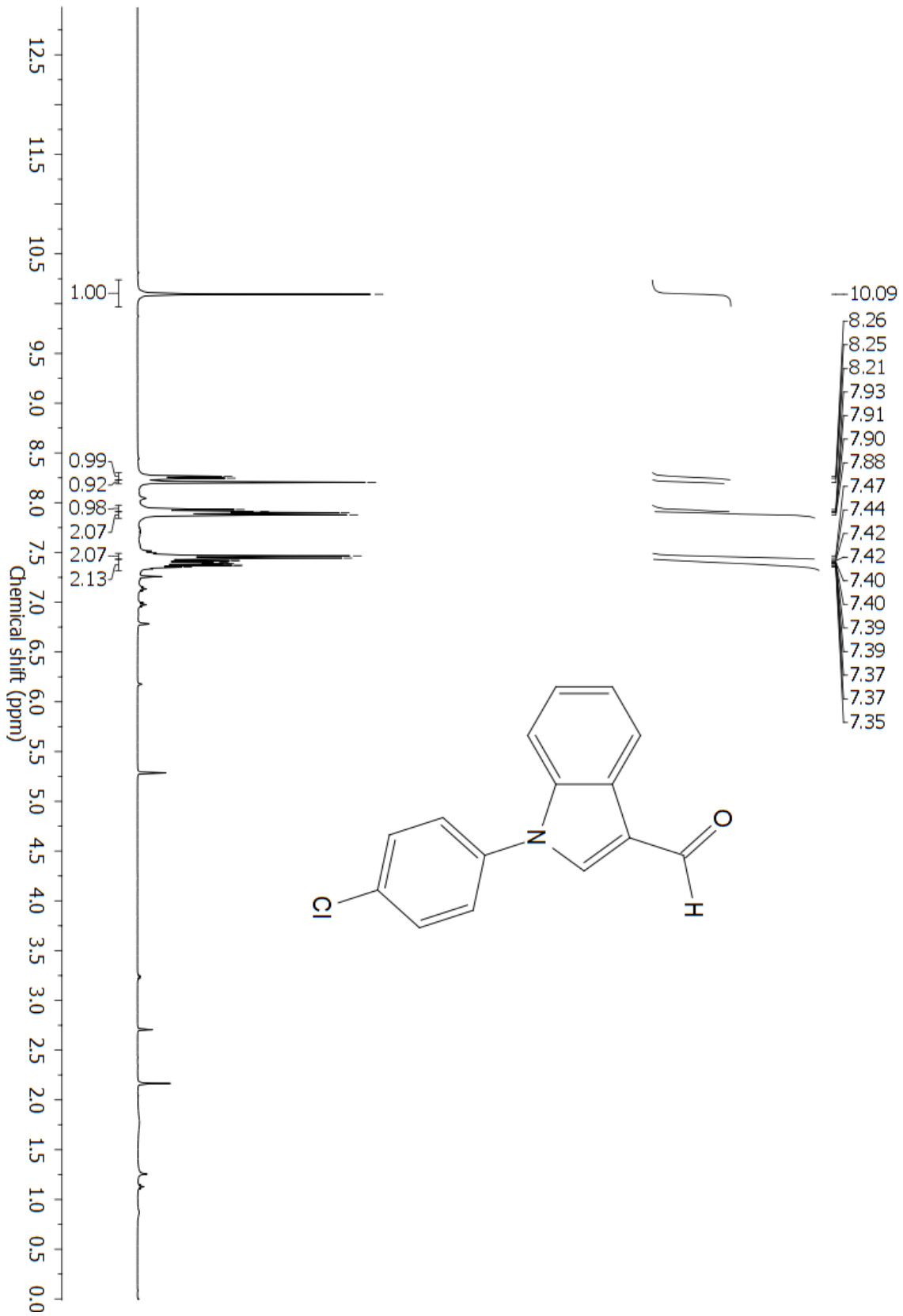


Figure S3.  $^1\text{H-NMR}$  spectrum of 2.

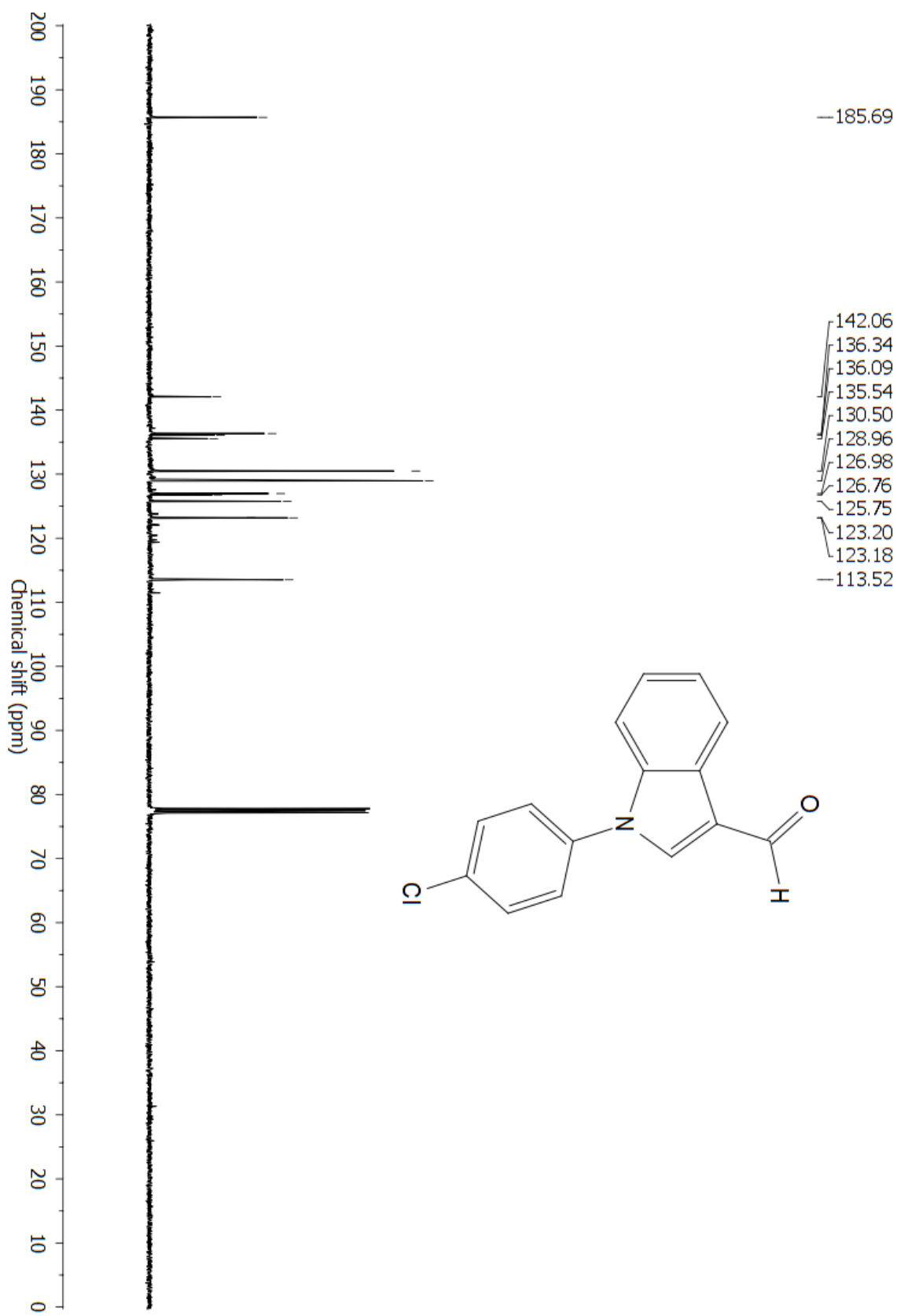


Figure S4.  $^{13}\text{C}$ -NMR spectrum of 2.

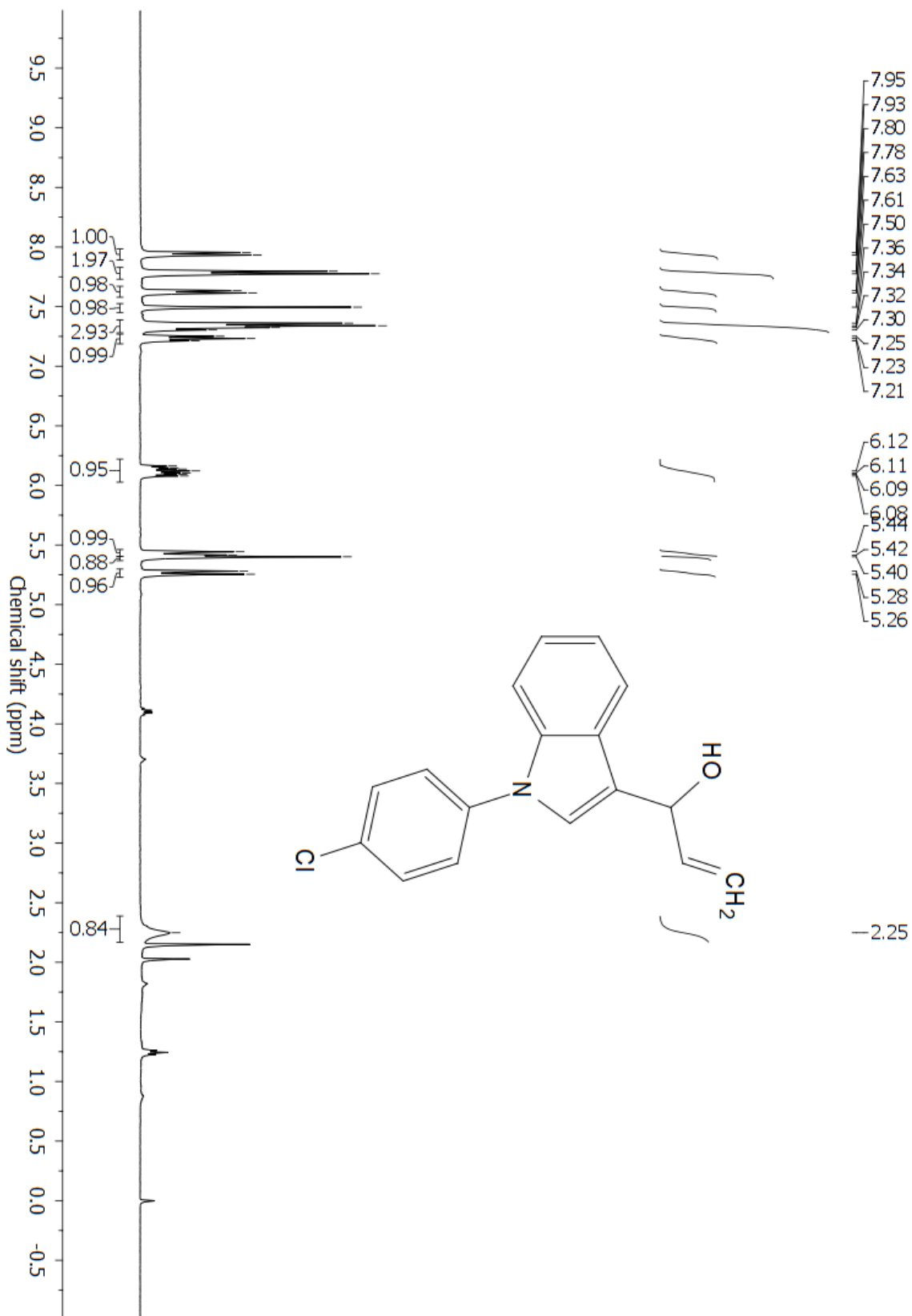


Figure S5. <sup>1</sup>H-NMR spectrum of 3.

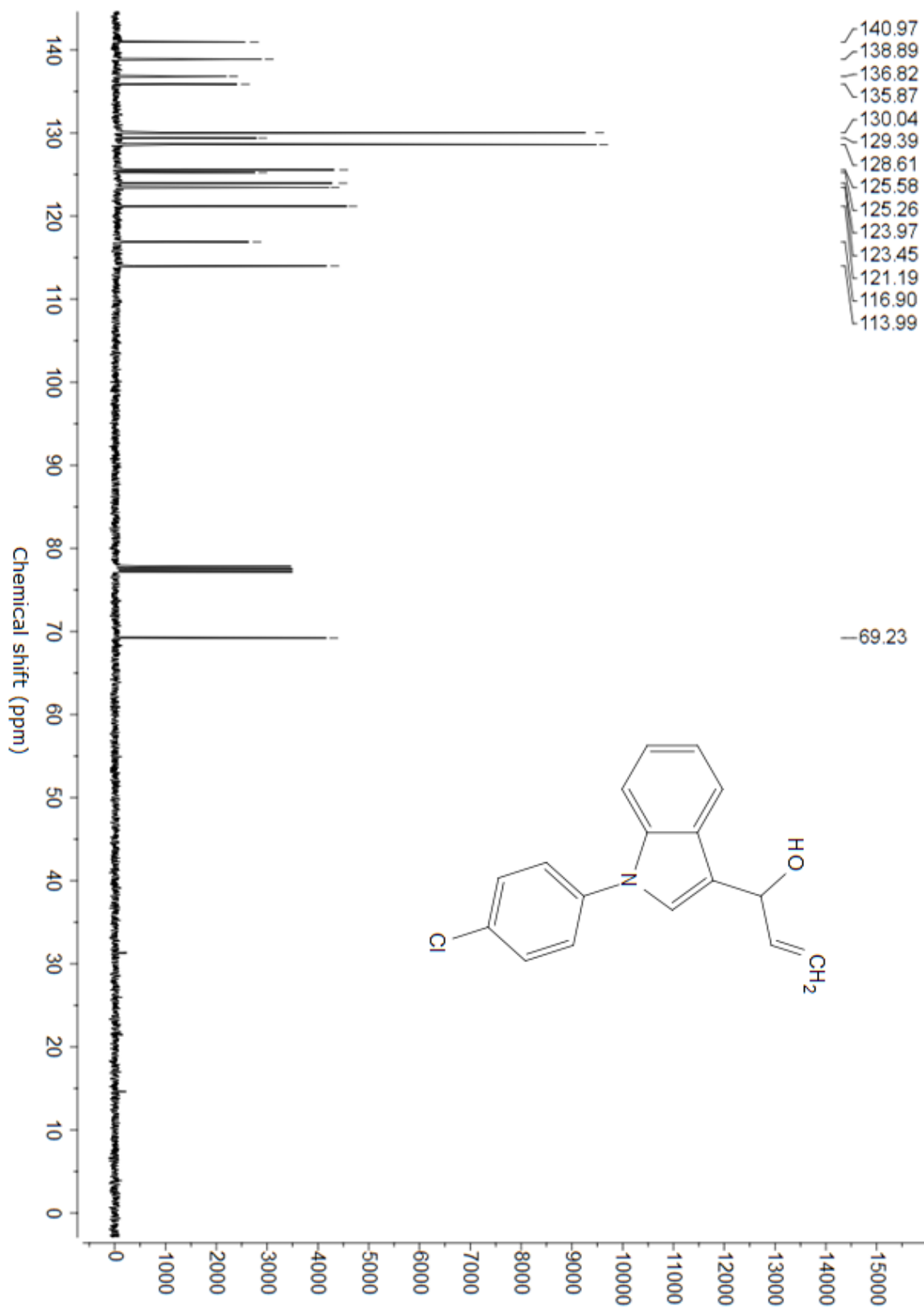


Figure S6. <sup>13</sup>C-NMR spectrum of 3.

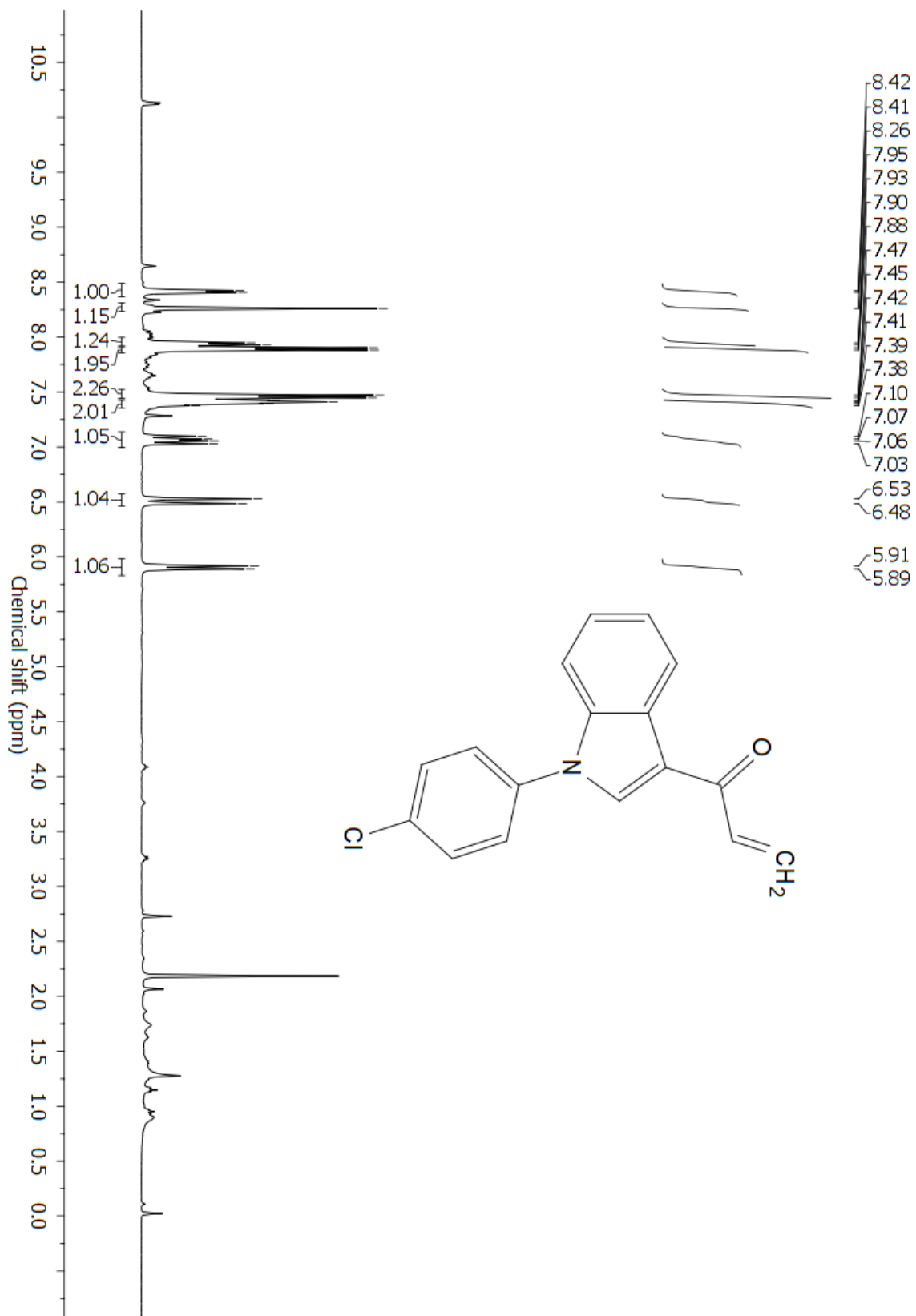


Figure S7. <sup>1</sup>H-NMR spectrum of 4.



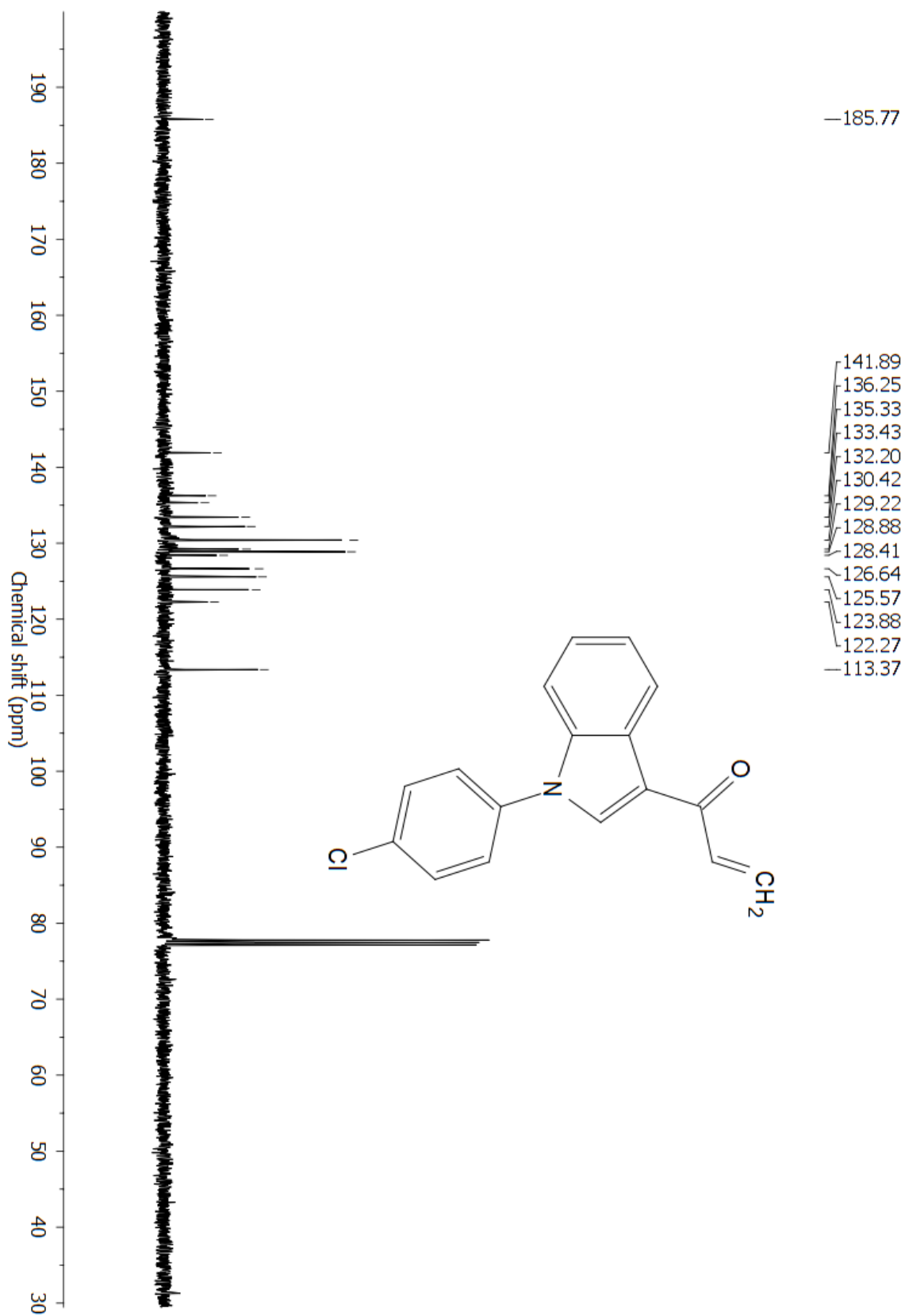


Figure S8.  $^{13}\text{C}$ -NMR spectrum of 4.

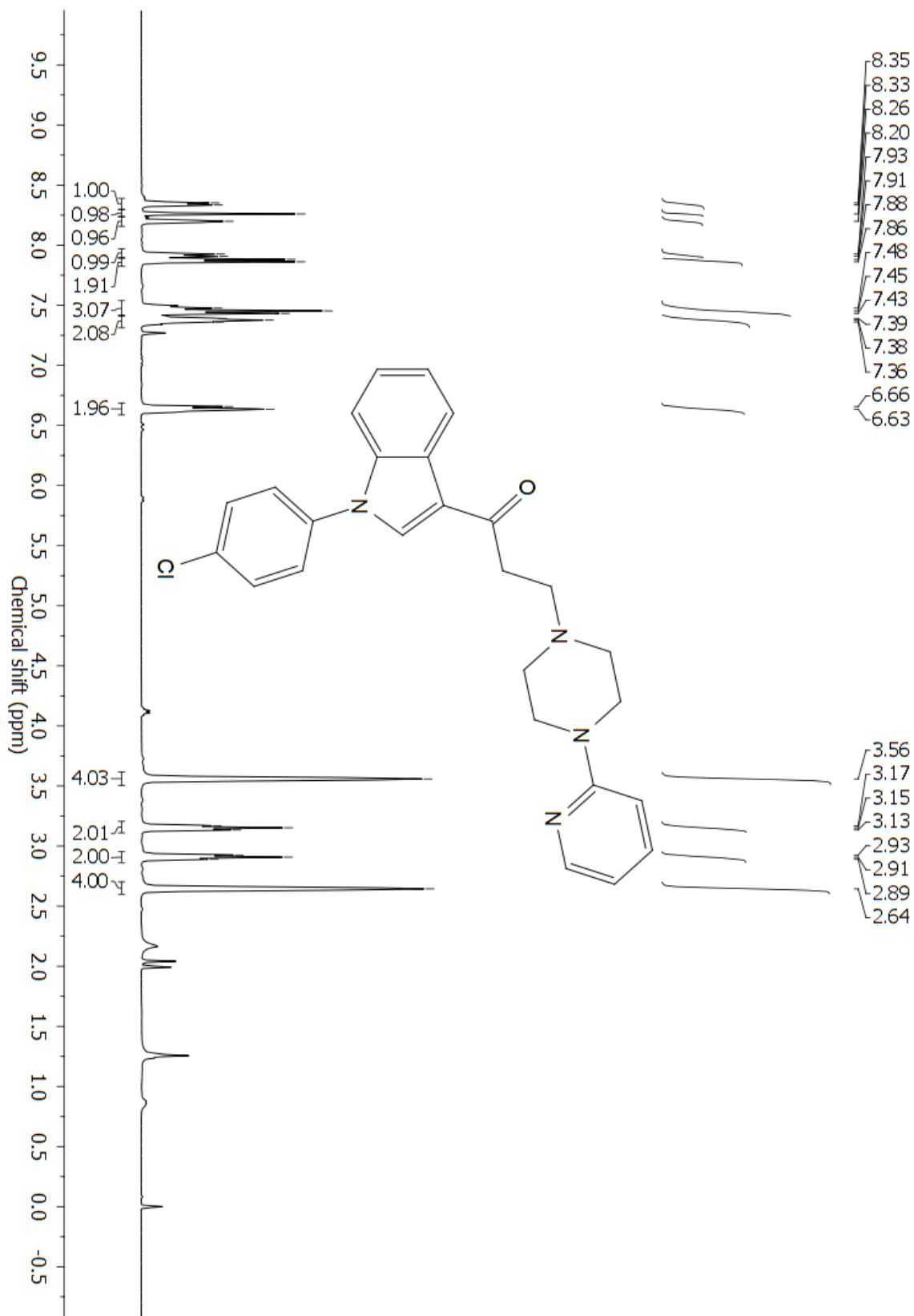


Figure S9.  $^1\text{H-NMR}$  spectrum of 5.

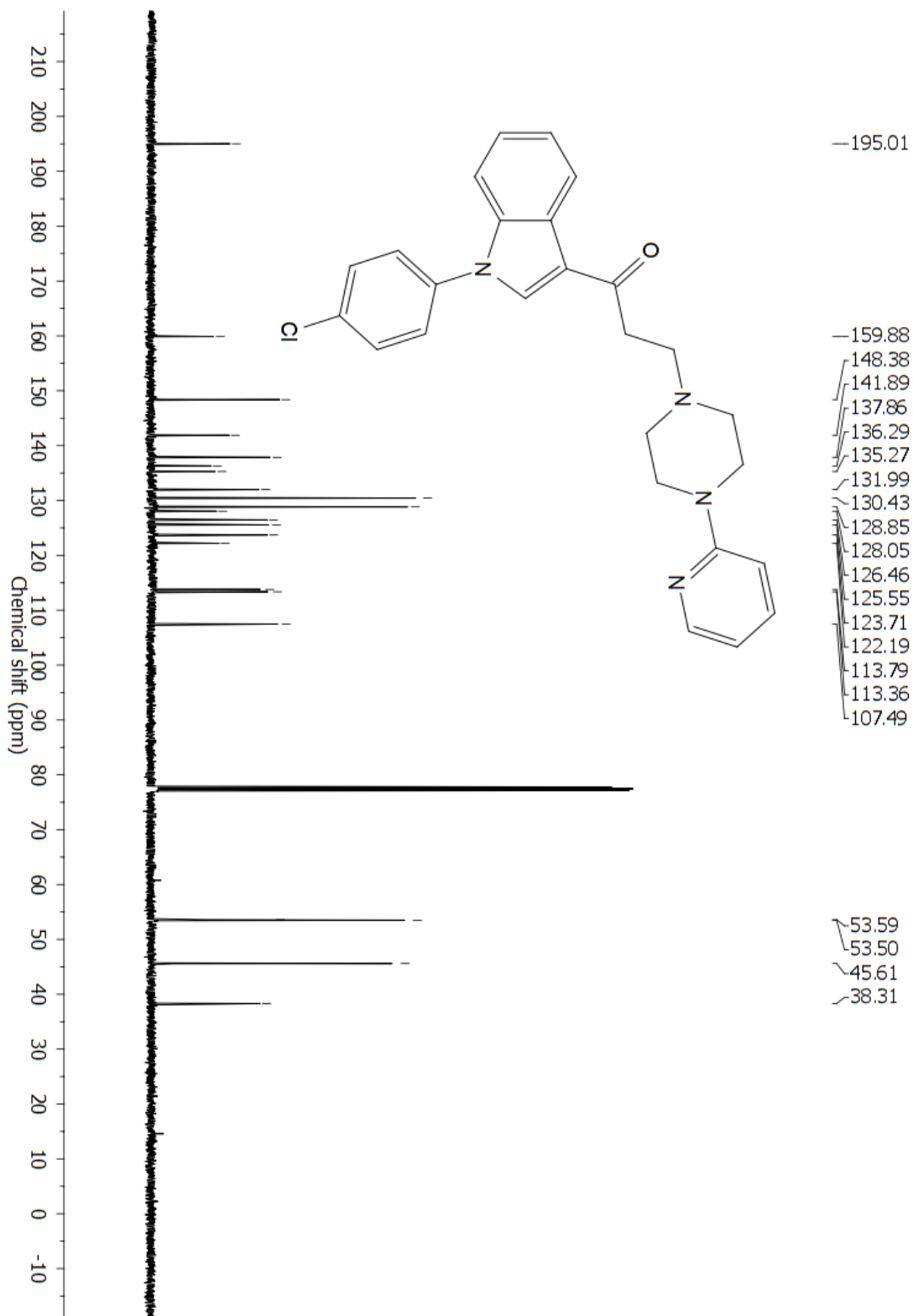


Figure S10. <sup>13</sup>C-NMR spectrum of 5.

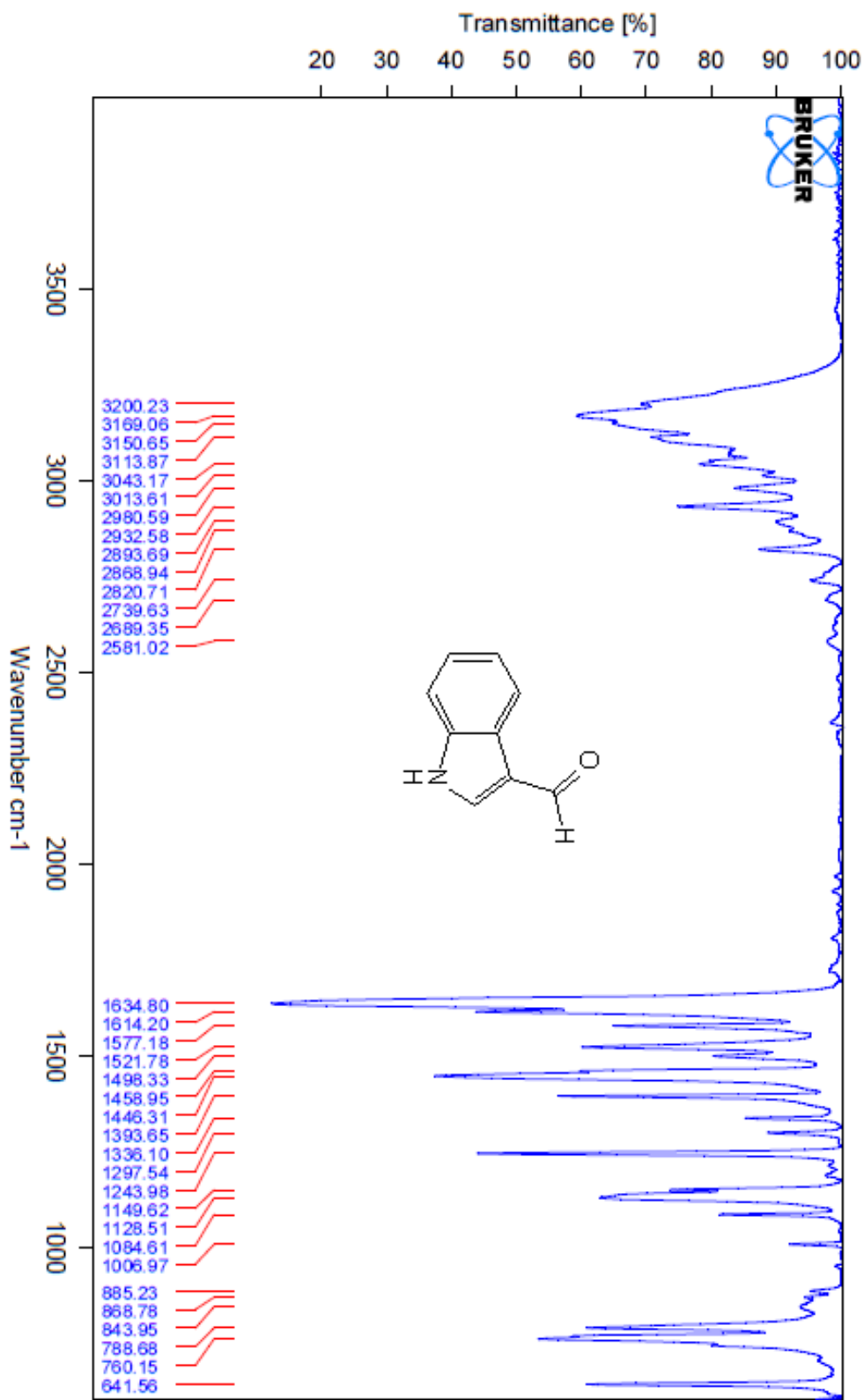


Figure S11. IR spectrum of 1.

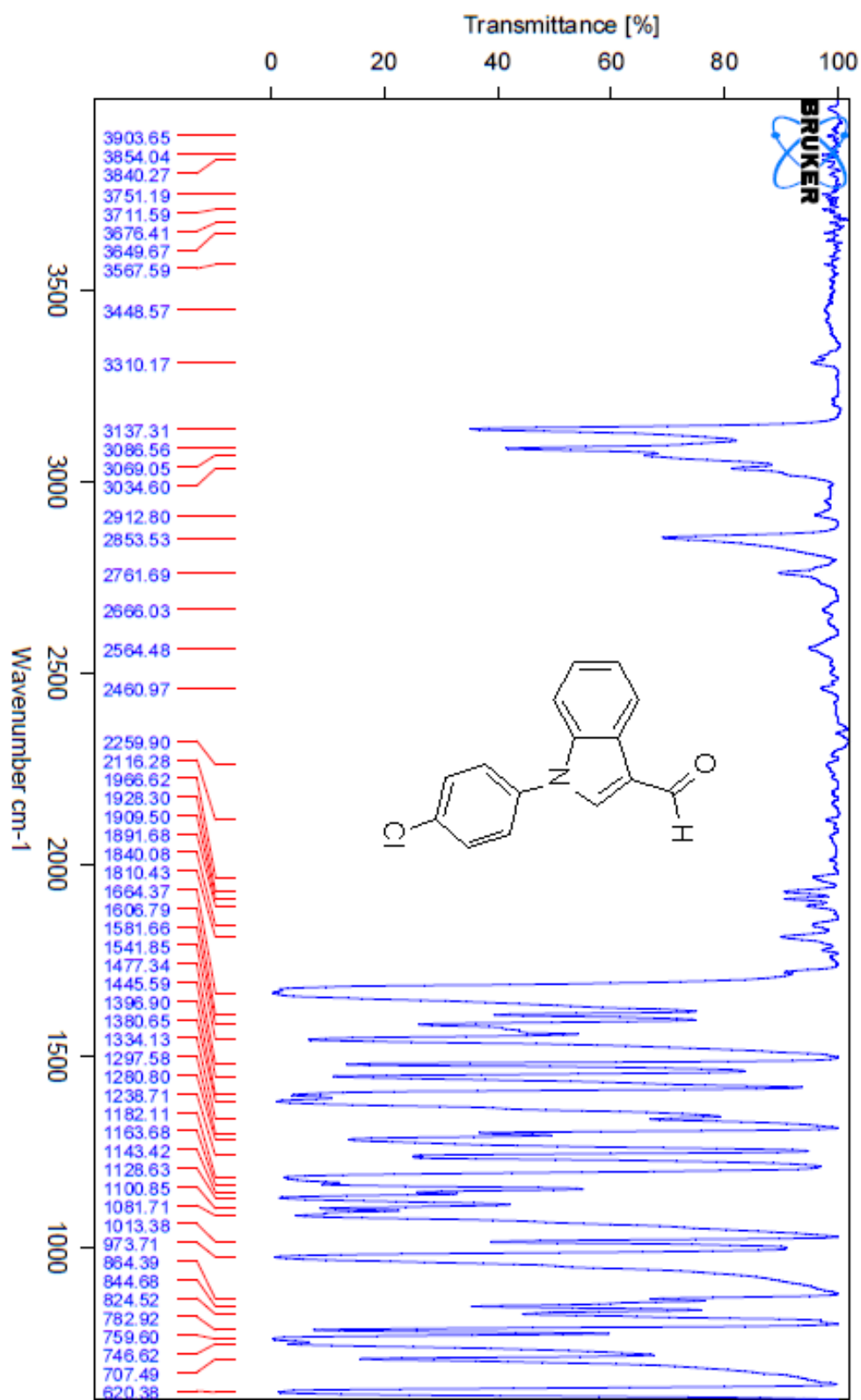


Figure S12. IR spectrum of 2.

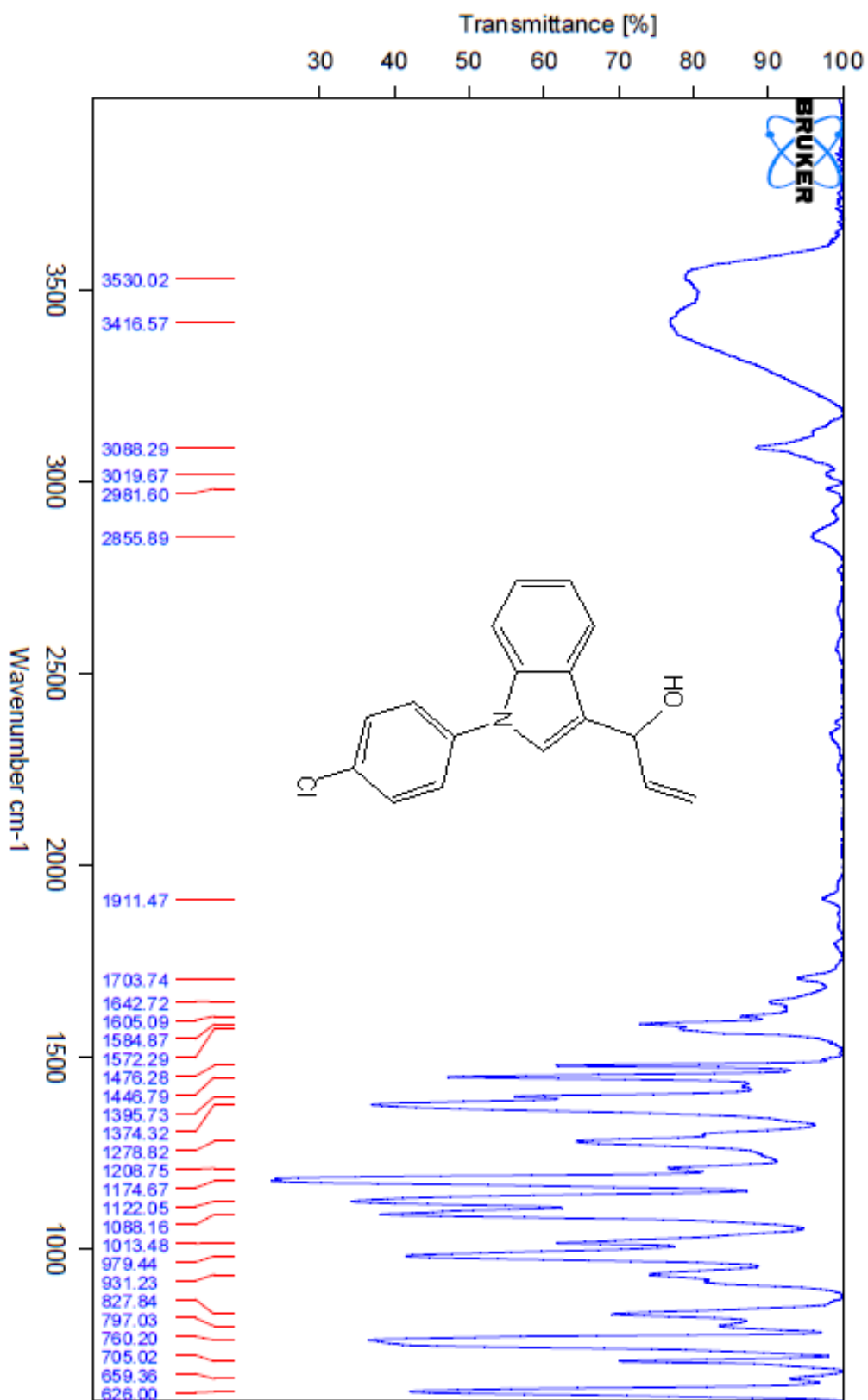


Figure S13. IR spectrum of 3.

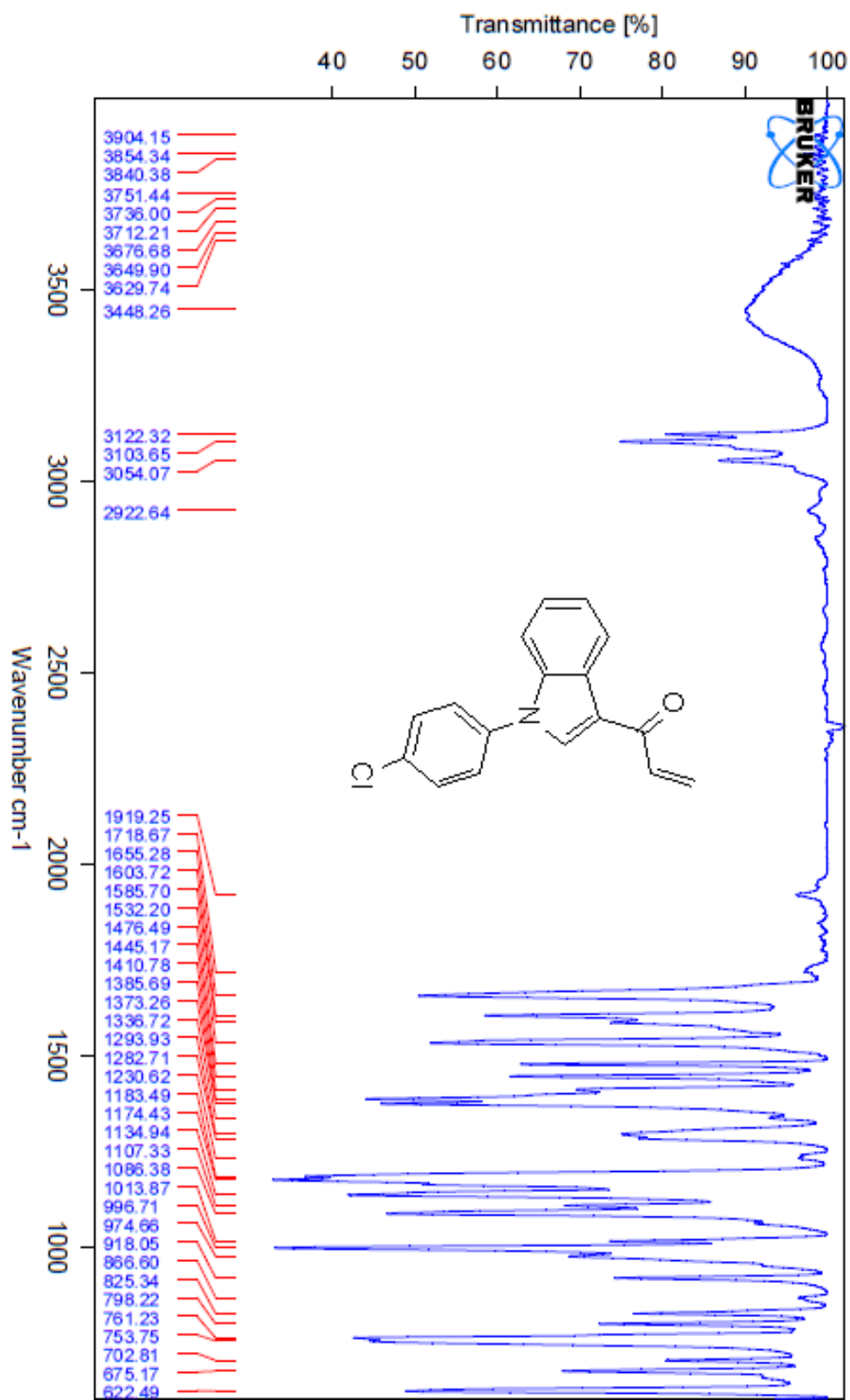


Figure S14. IR spectrum of 4.

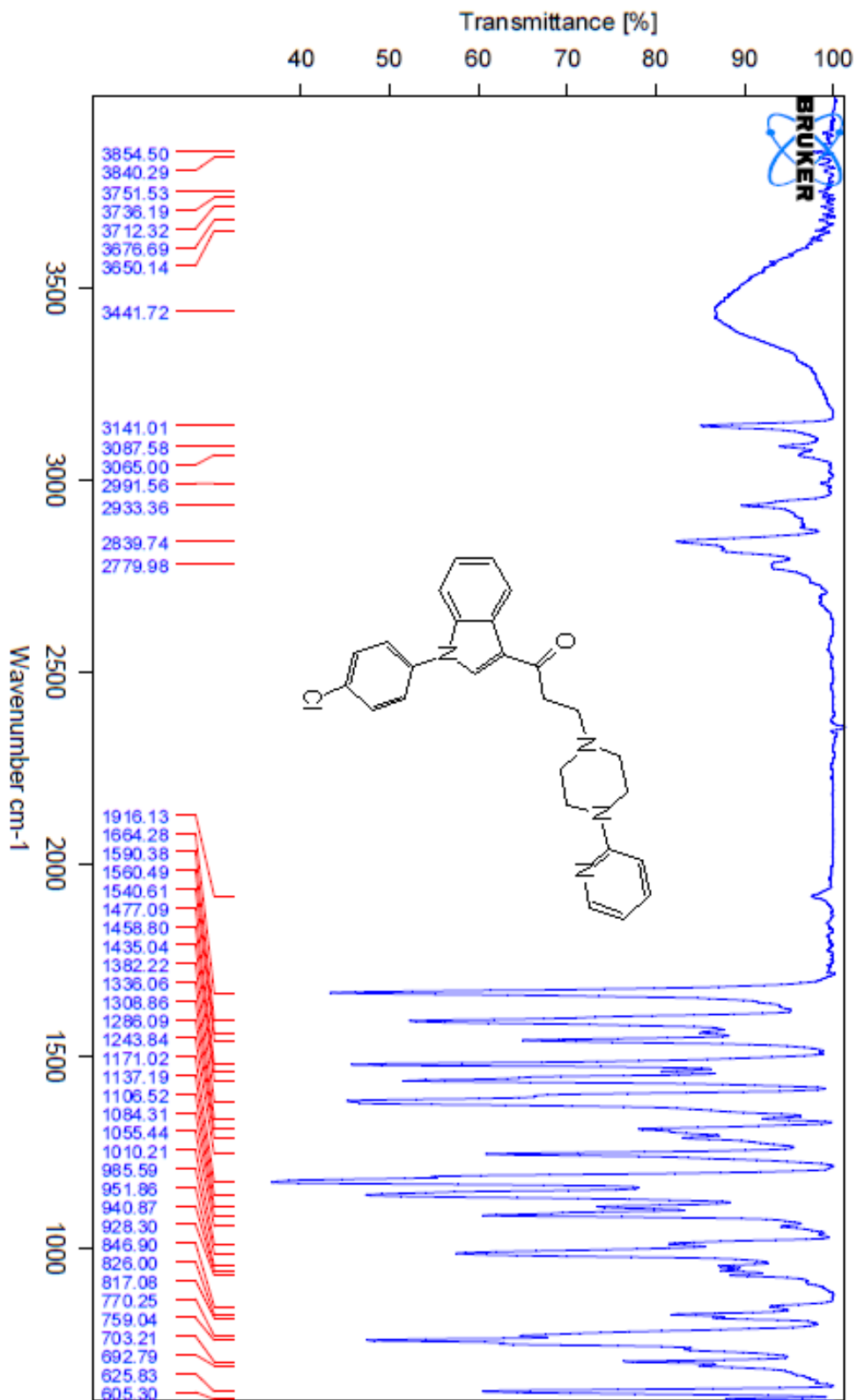
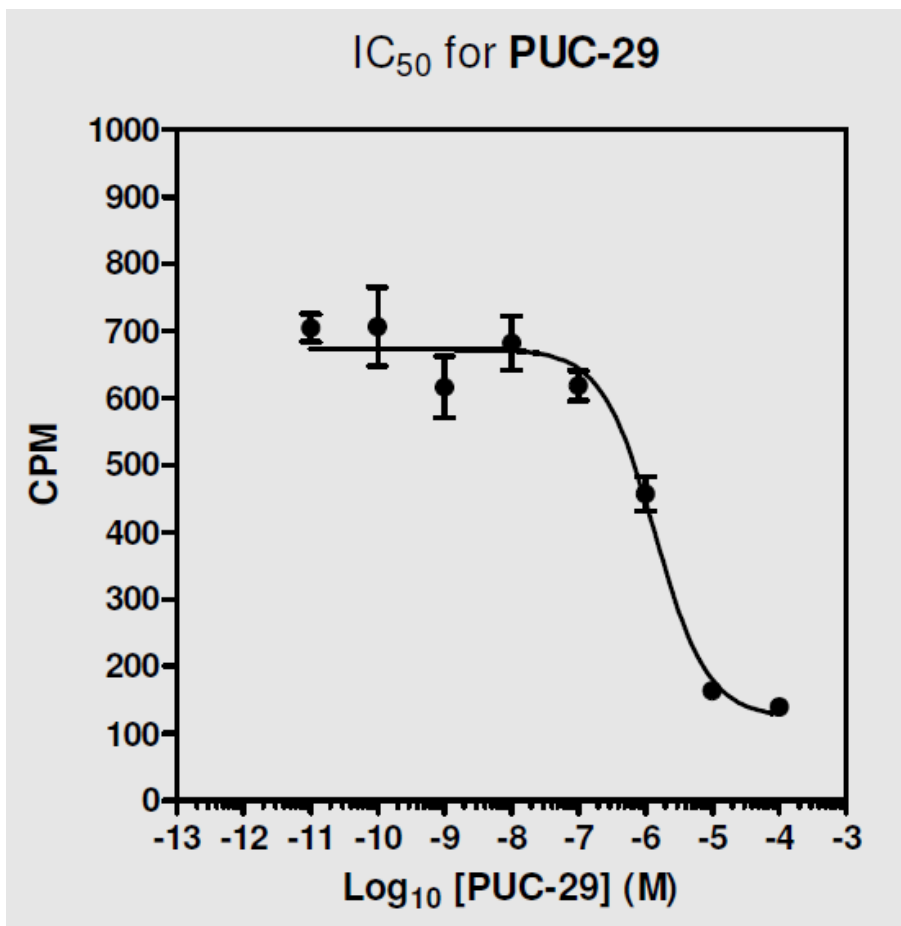


Figure S15. IR spectrum of 5.





**Figure S16.** Dose-response curve for the 5-HT<sub>6</sub> receptor of 5.