

Supplementary material to

Novel hydroxynaphthalene and quinoline derivatives effective against *Trypanosoma* and *Leishmania*

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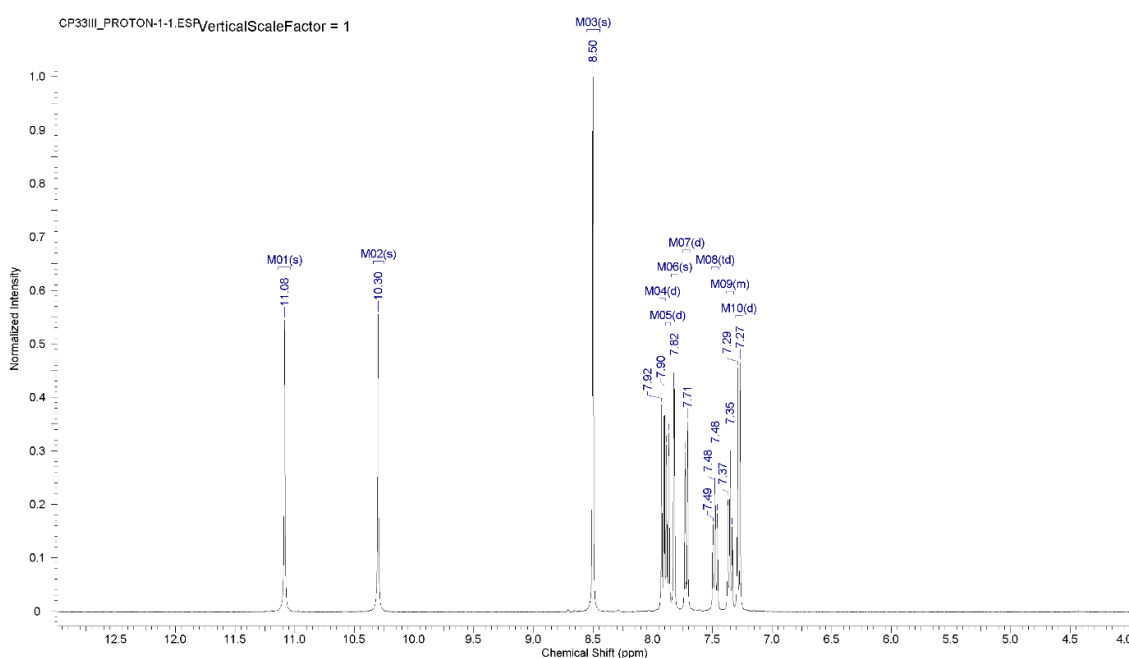


Figure S1. ¹H-NMR (DMSO-*d*₆) spectrum of *N*-[3,5-bis(trifluoromethyl)phenyl]-2-hydroxynaphthalene-1-carboxamide (**1c**)

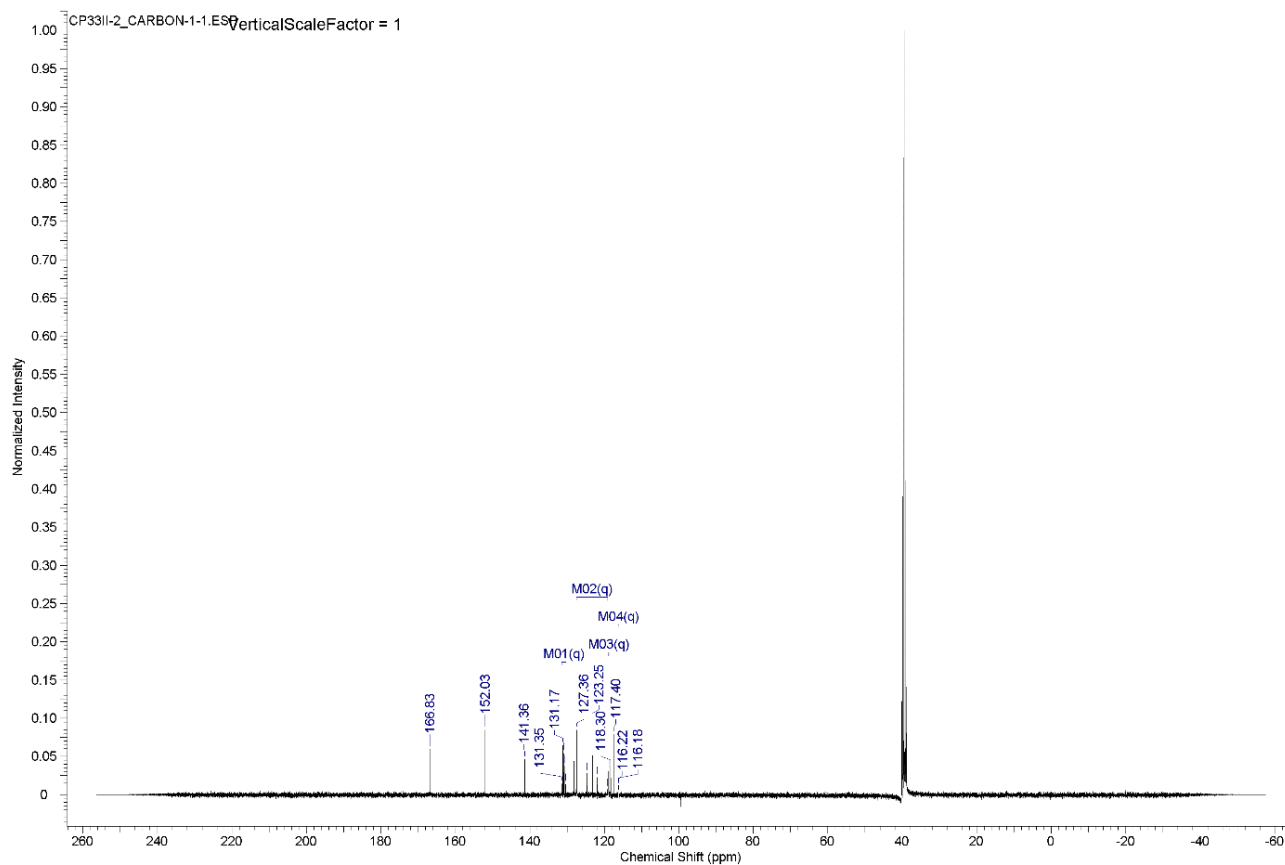


Figure S2. ^{13}C -NMR ($\text{DMSO}-d_6$) spectrum of *N*-[3,5-bis(trifluoromethyl)phenyl]-2-hydroxynaphthalene-1-carboxamide (**1c**)

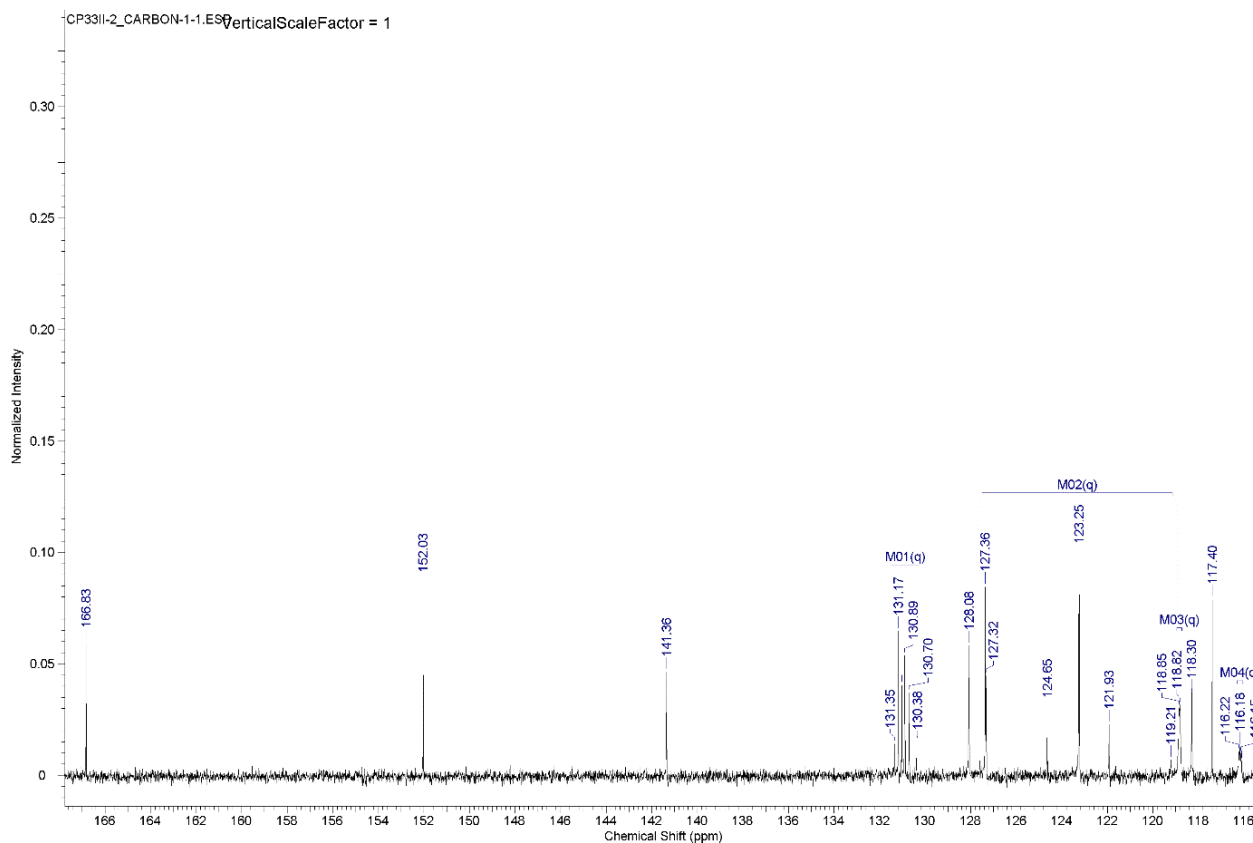


Figure. S3. Detail of ^{13}C -NMR ($\text{DMSO}-d_6$) spectrum of *N*-[3,5-bis(trifluoromethyl)phenyl]-2-hydroxynaphthalene-1-carboxamide (**1c**)

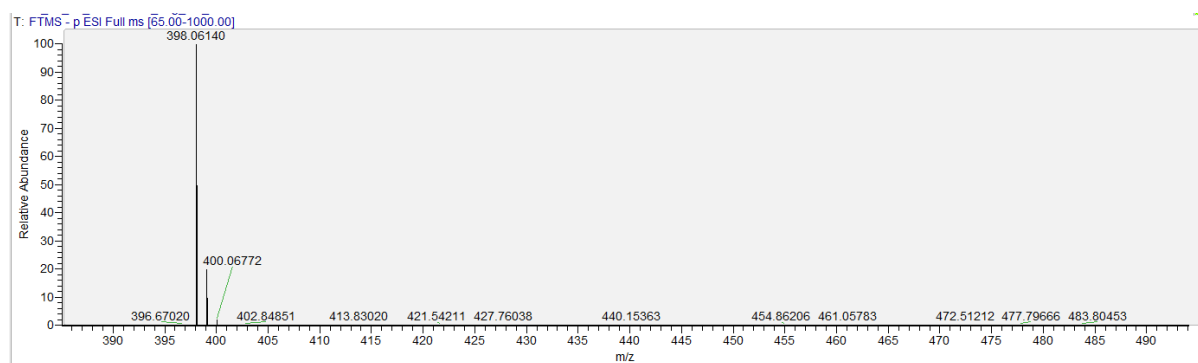


Figure S4. Detail of HRMS spectrum of *N*-[3,5-bis(trifluoromethyl)phenyl]-2-hydroxynaphthalene-1-carboxamide (**1c**)

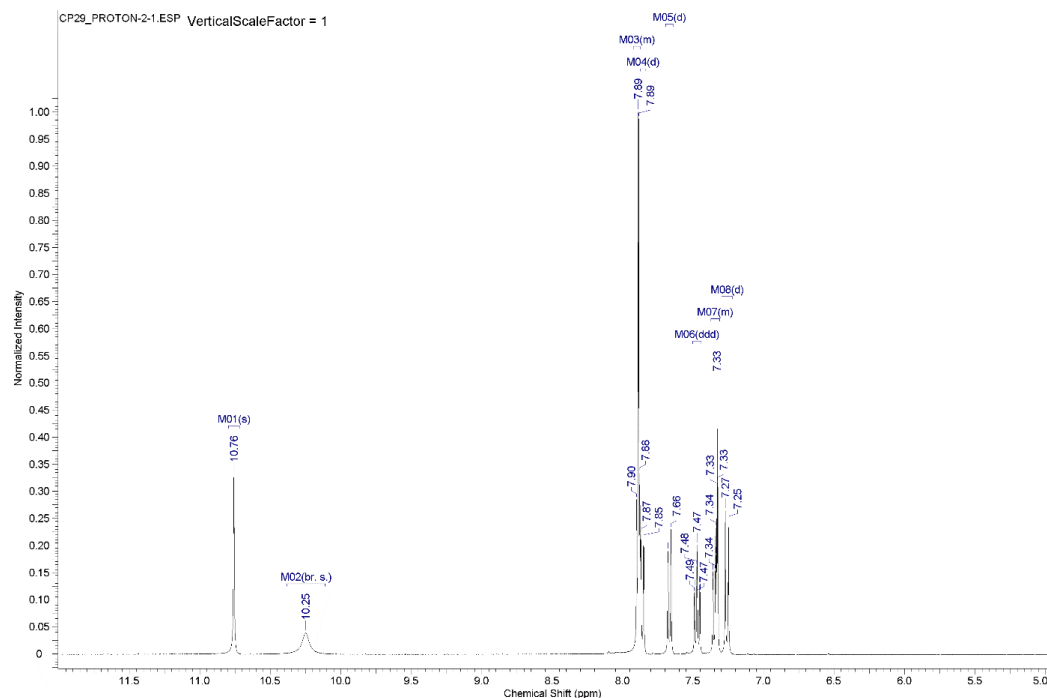


Figure S5. ¹H-NMR (DMSO-*d*₆) spectrum of *N*-(3,5-dichlorophenyl)-2-hydroxynaphthalene-1-carboxamide (**1d**)

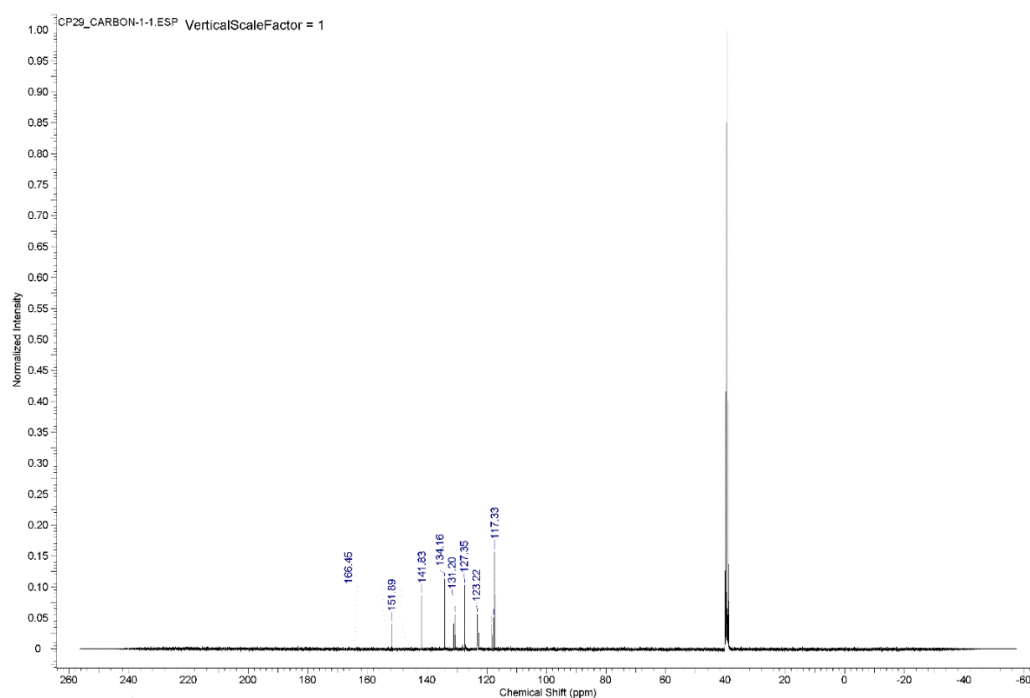
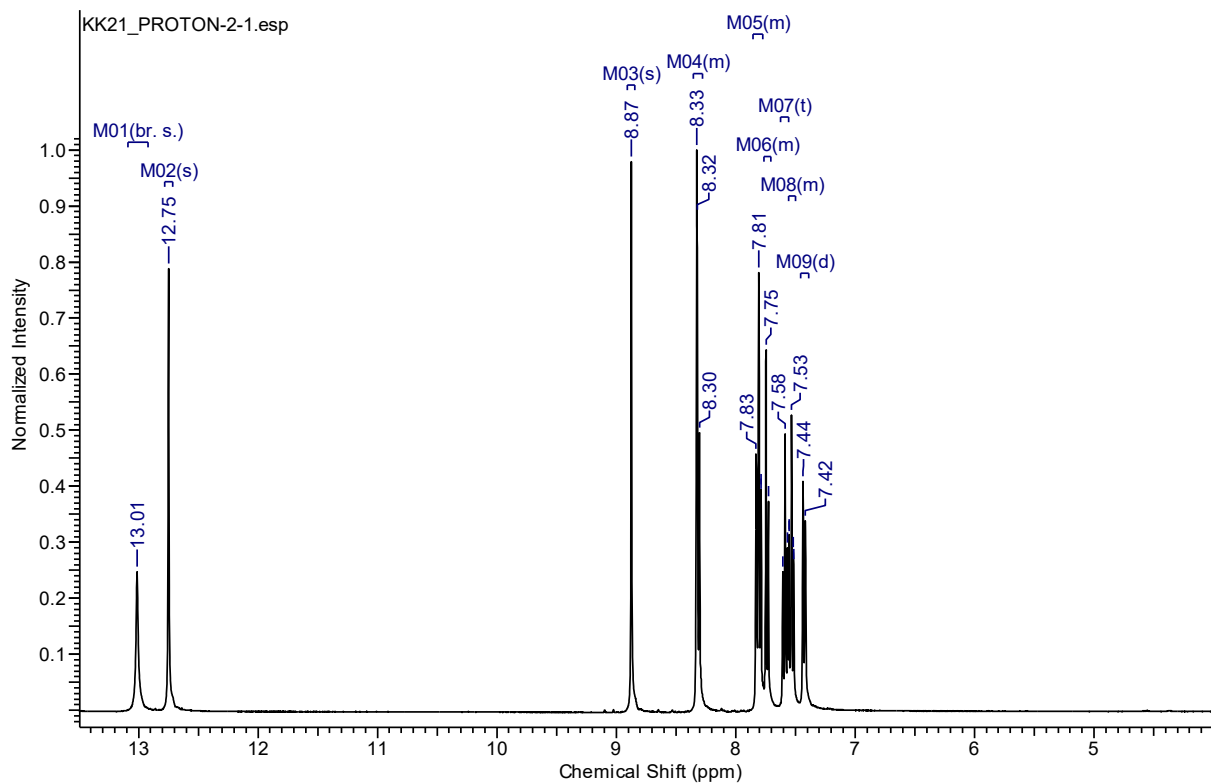
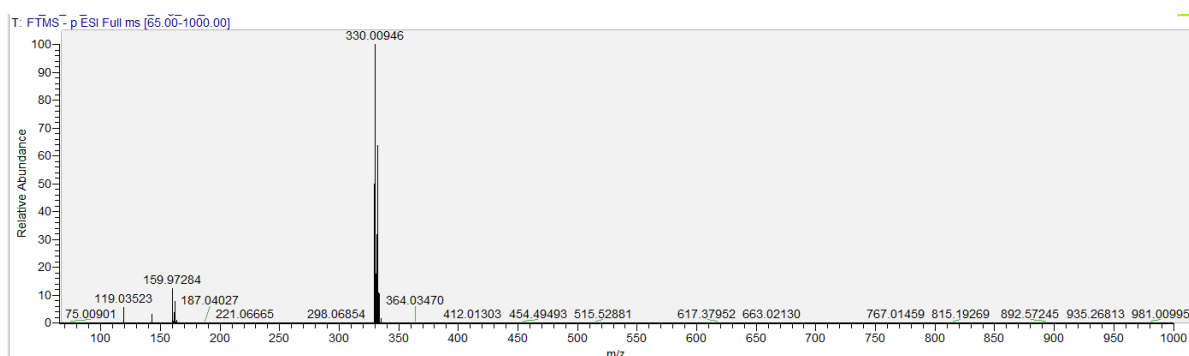
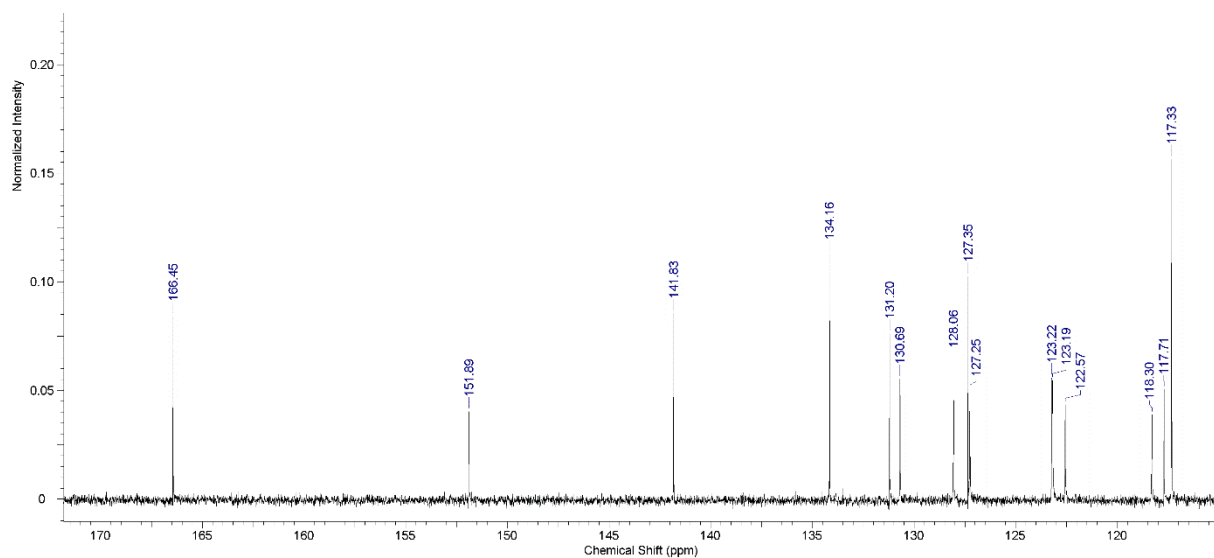


Figure S6. ¹³C-NMR (DMSO-*d*₆) spectrum of *N*-(3,5-dichlorophenyl)-2-hydroxynaphthalene-1-carboxamide (**1d**)



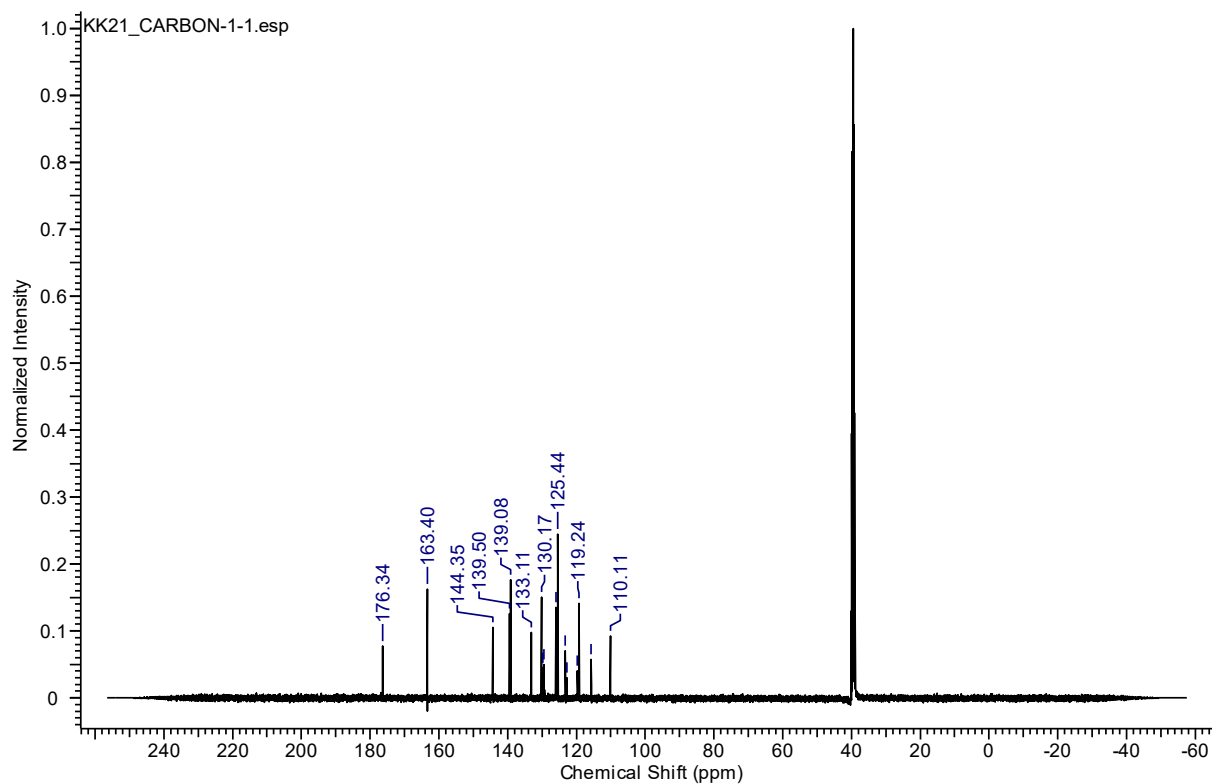


Figure S10. ^{13}C -NMR ($\text{DMSO}-d_6$) spectrum of 4-hydroxy-*N*-[3-(trifluoromethyl)phenyl]quinoline-3-carboxamide (**3a**)

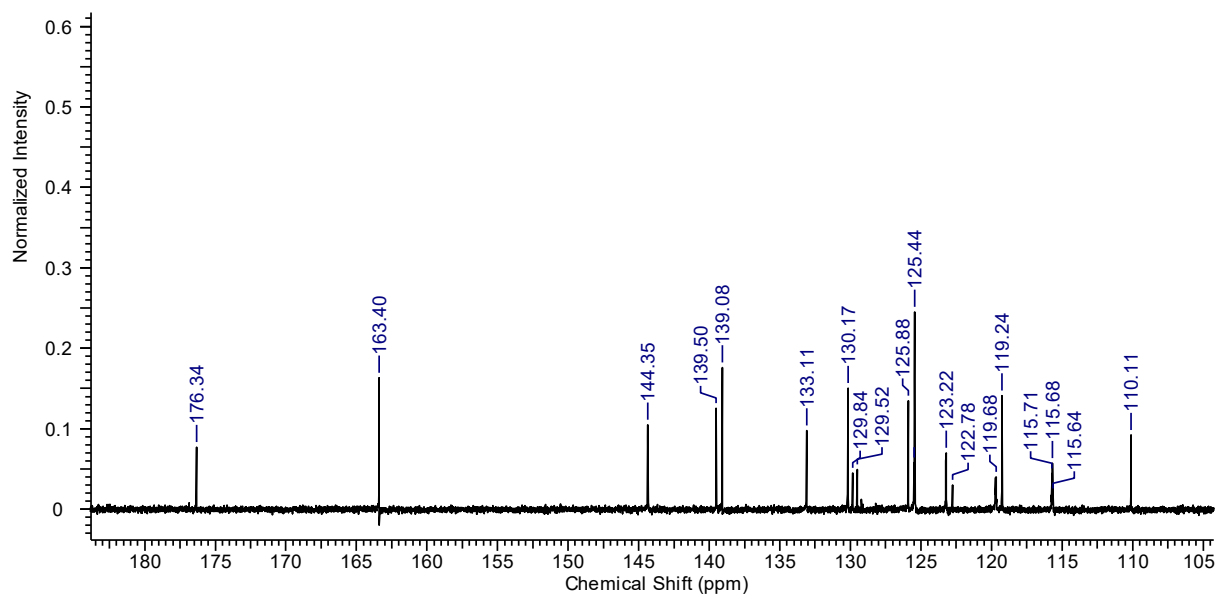


Figure S11. Detail of ^{13}C -NMR ($\text{DMSO}-d_6$) spectrum of 4-hydroxy-*N*-[3-(trifluoromethyl)phenyl]quinoline-3-carboxamide (**3a**)

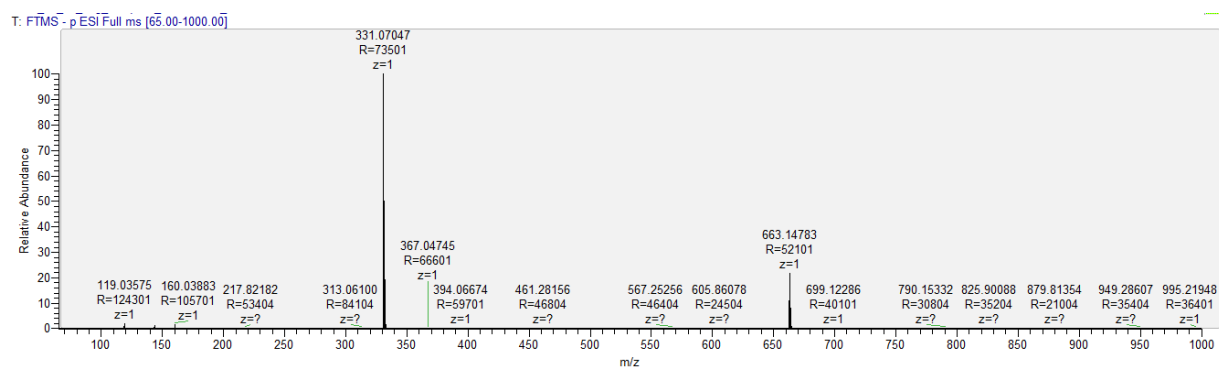


Figure S12. Detail of HRMS spectrum of 4-hydroxy-*N*-[3-(trifluoromethyl)phenyl]quinoline-3-carboxamide (**3a**)

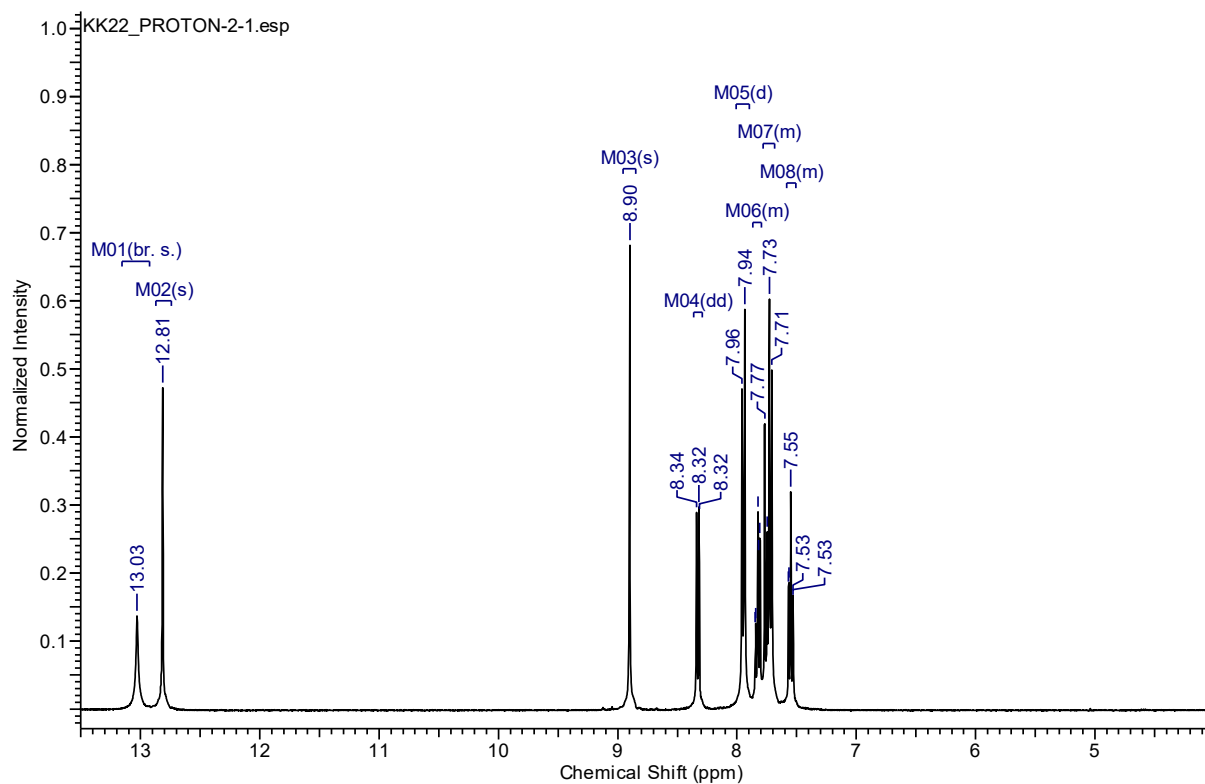


Figure S13. ¹H-NMR (DMSO-*d*₆) spectrum of 4-hydroxy-*N*-[4-(trifluoromethyl)phenyl]quinoline-3-carboxamide (**3b**)

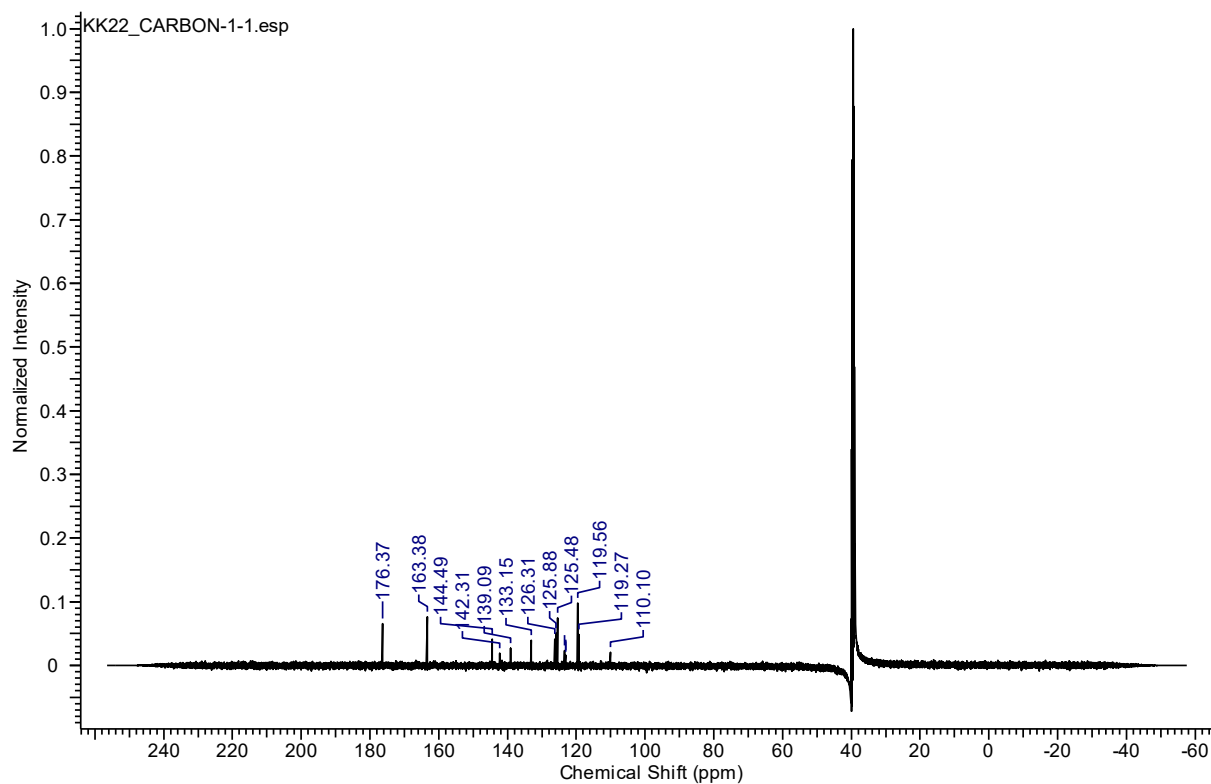


Figure S14. ¹³C-NMR (DMSO-*d*₆) spectrum of 4-hydroxy-*N*-[4-(trifluoromethyl)phenyl]quinoline-3-carboxamide (**3b**)

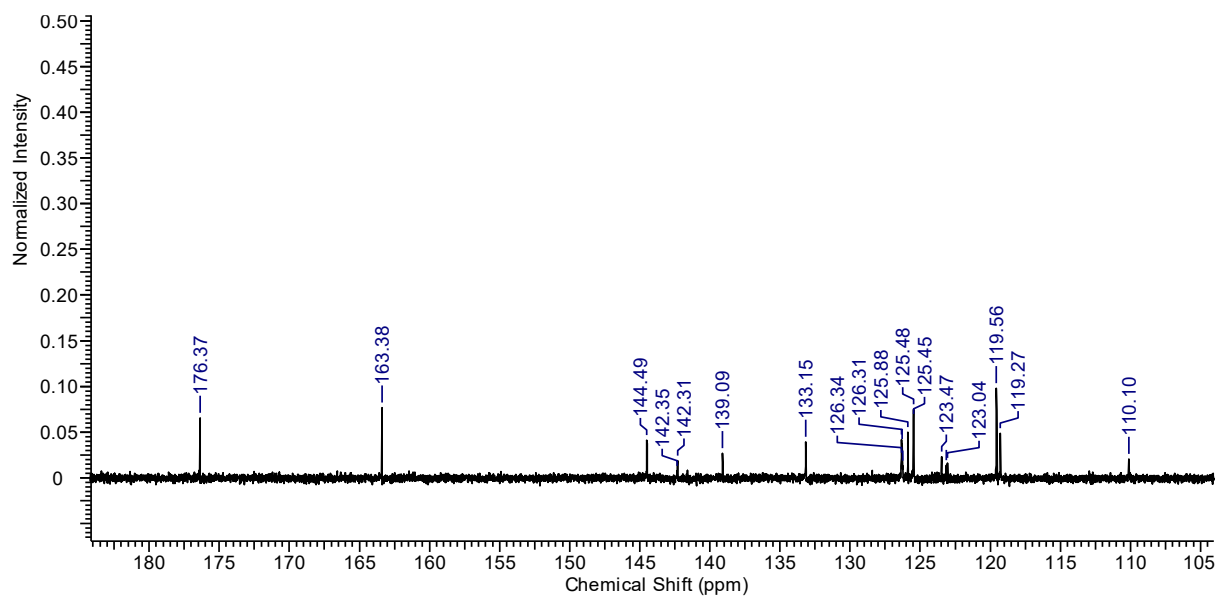


Figure S15. Detail of ^{13}C -NMR (DMSO- d_6) spectrum of 4-hydroxy-*N*-[4-(trifluoromethyl)phenyl]quinoline-3-carboxamide (**3b**)

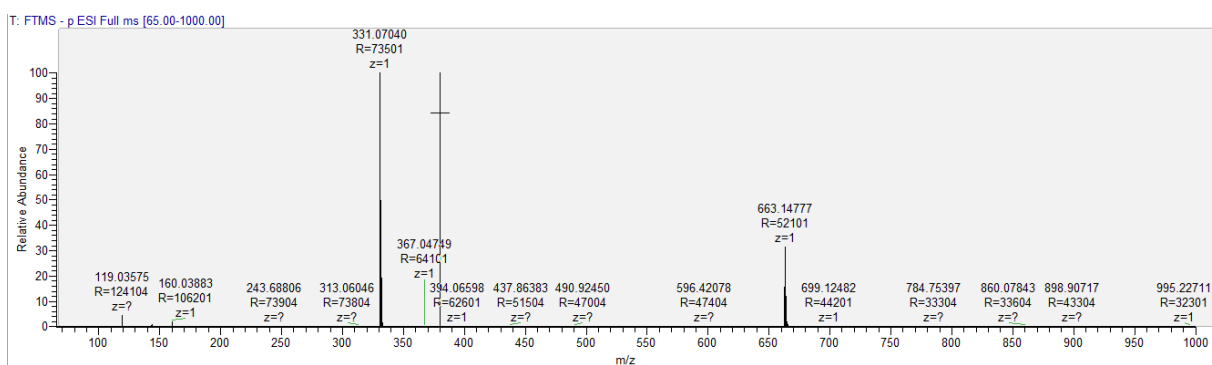


Figure S16. Detail of HRMS spectrum of 4-hydroxy-*N*-[4-(trifluoromethyl)phenyl]quinoline-3-carboxamide (**3b**)

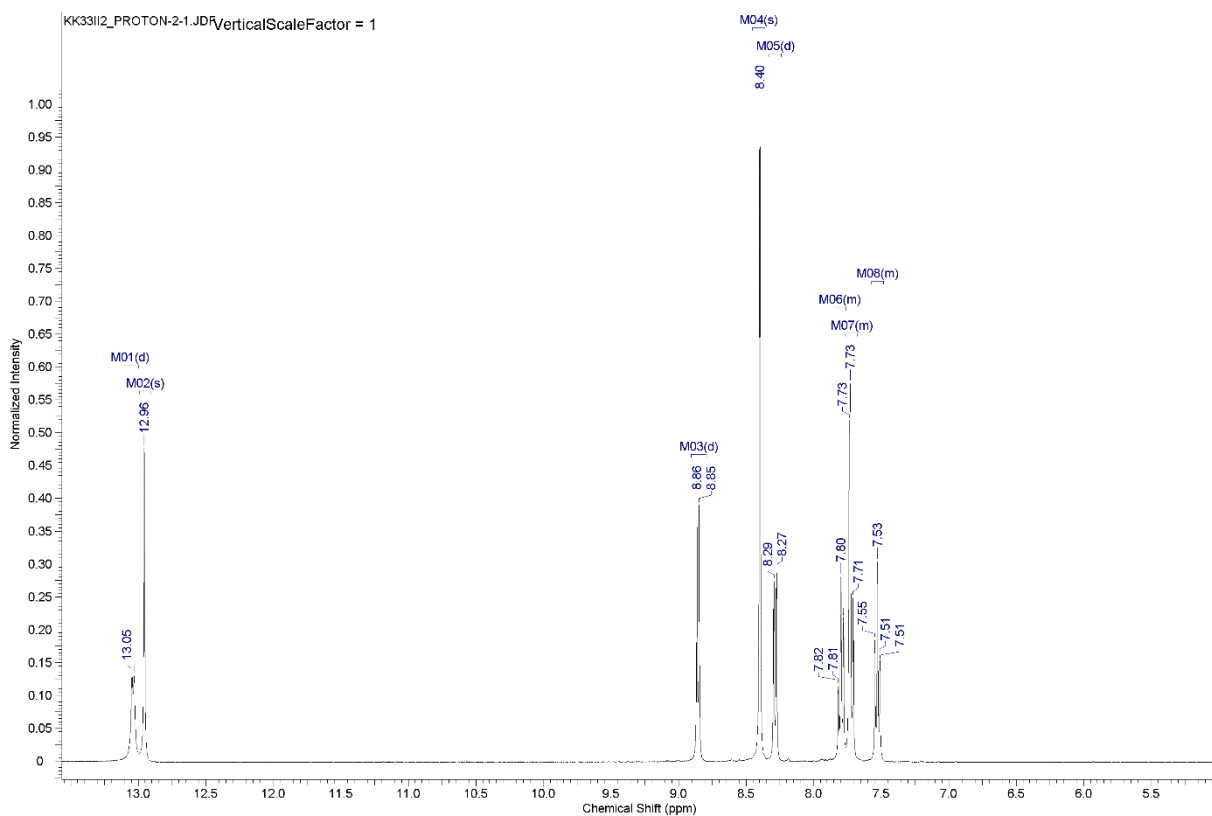


Figure S17. ^1H -NMR (DMSO- d_6) spectrum of *N*-[3,5-bis(trifluoromethyl)phenyl]-4-hydroxyquinoline-3-carboxamide (**3c**)

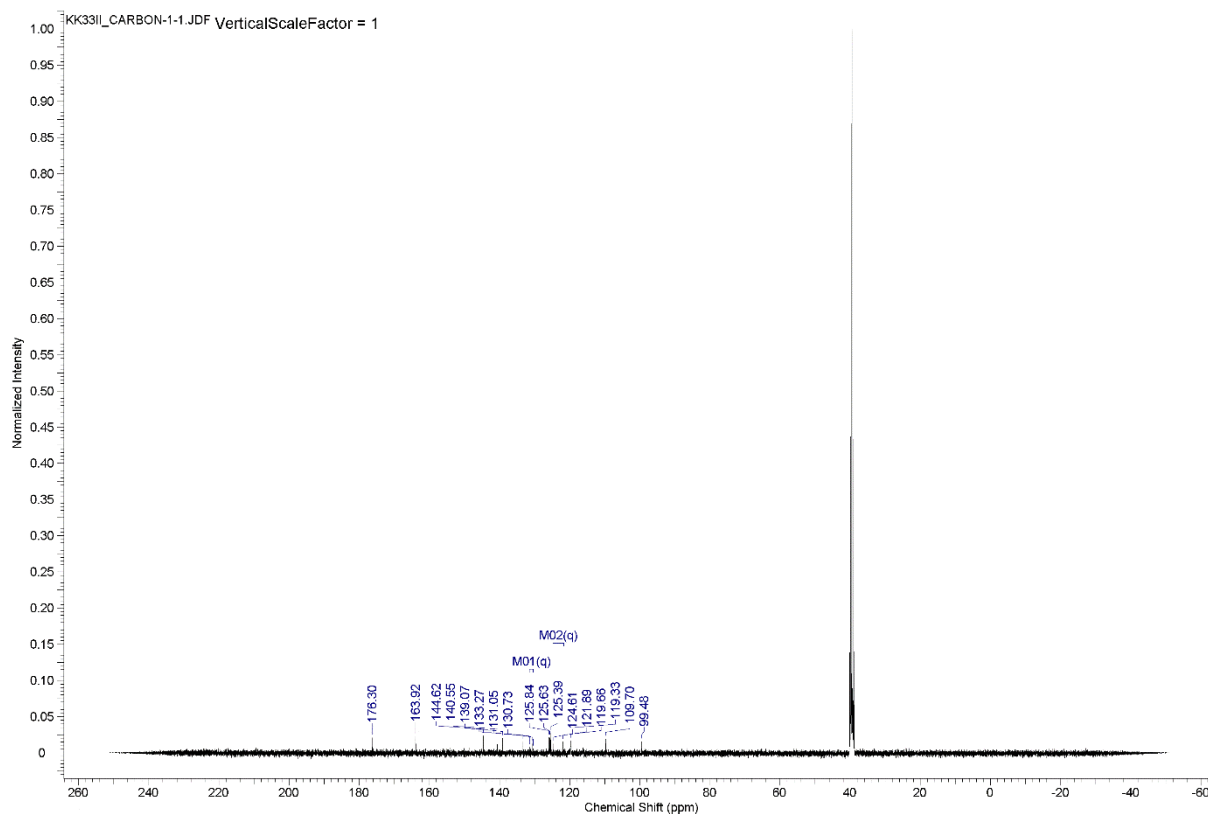


Figure S18. ^{13}C -NMR ($\text{DMSO}-d_6$) spectrum of *N*-[3,5-bis(trifluoromethyl)phenyl]-4-hydroxyquinoline-3-carboxamide (**3c**)

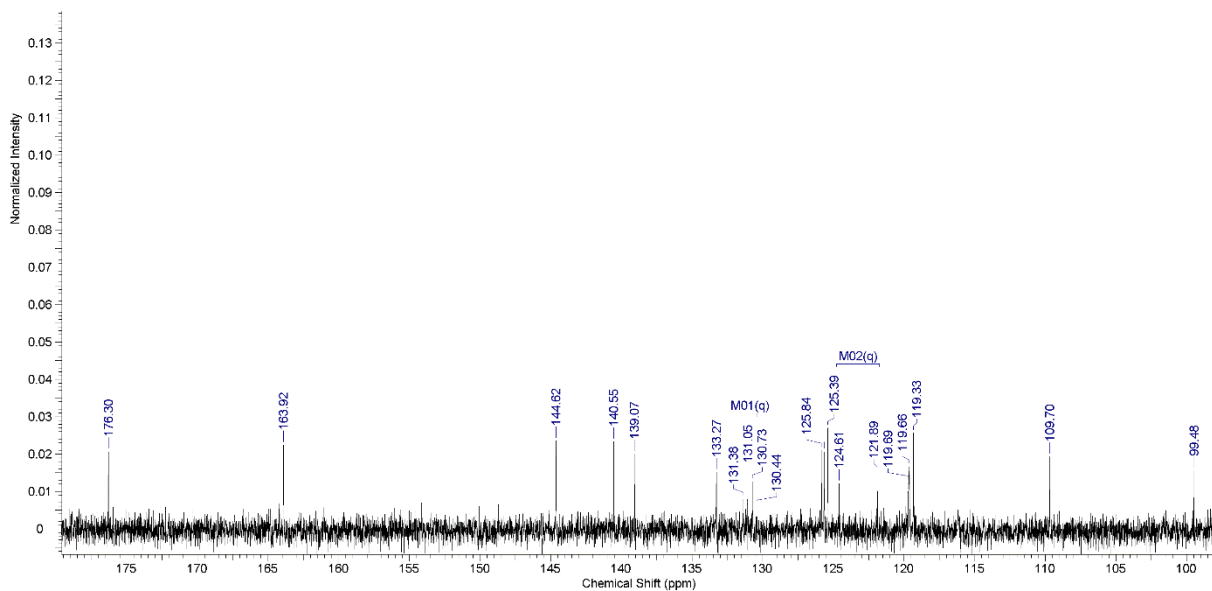


Figure S19. Detail of ^{13}C -NMR ($\text{DMSO}-d_6$) spectrum of *N*-[3,5-bis(trifluoromethyl)phenyl]-4-hydroxyquinoline-3-carboxamide (**3c**)

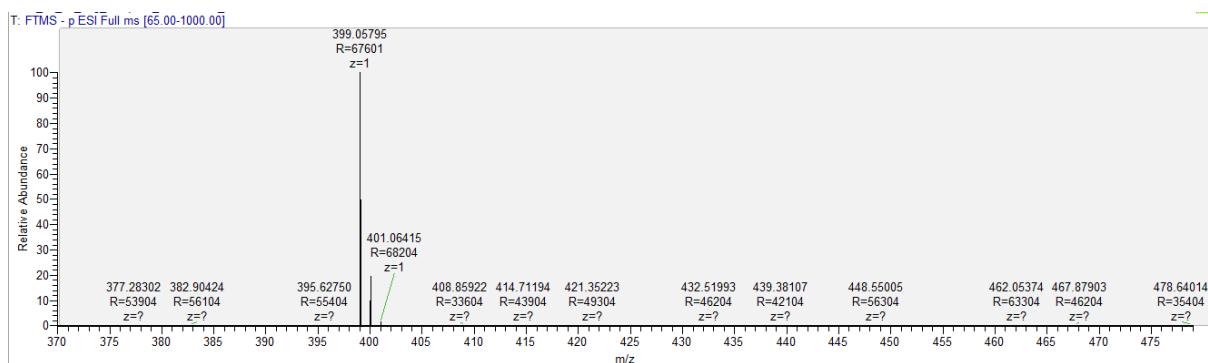


Figure S20. Detail of HRMS spectrum of *N*-[3,5-bis(trifluoromethyl)phenyl]-4-hydroxyquinoline-3-carboxamide (**3c**)

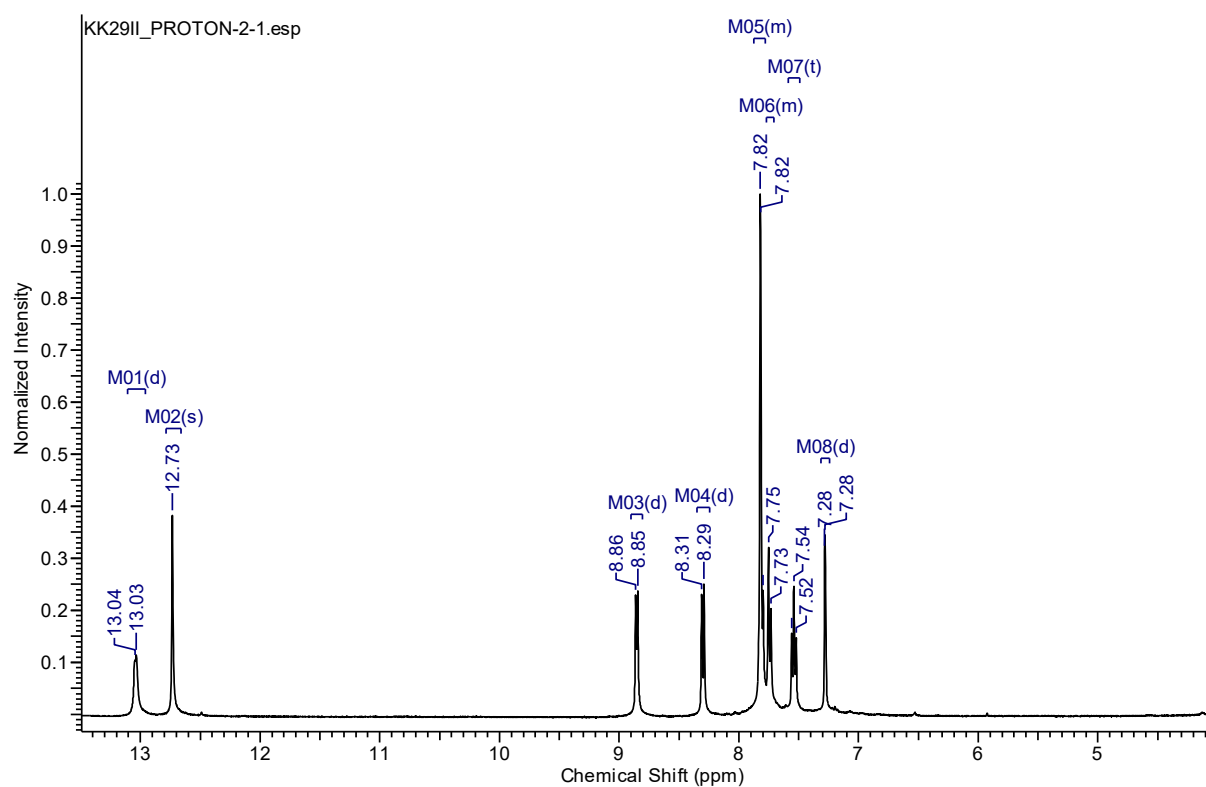


Figure S21. ^1H -NMR (DMSO- d_6) spectrum of *N*-(3,5-dichlorophenyl)-4-hydroxyquinoline-3-carboxamide (**3d**).

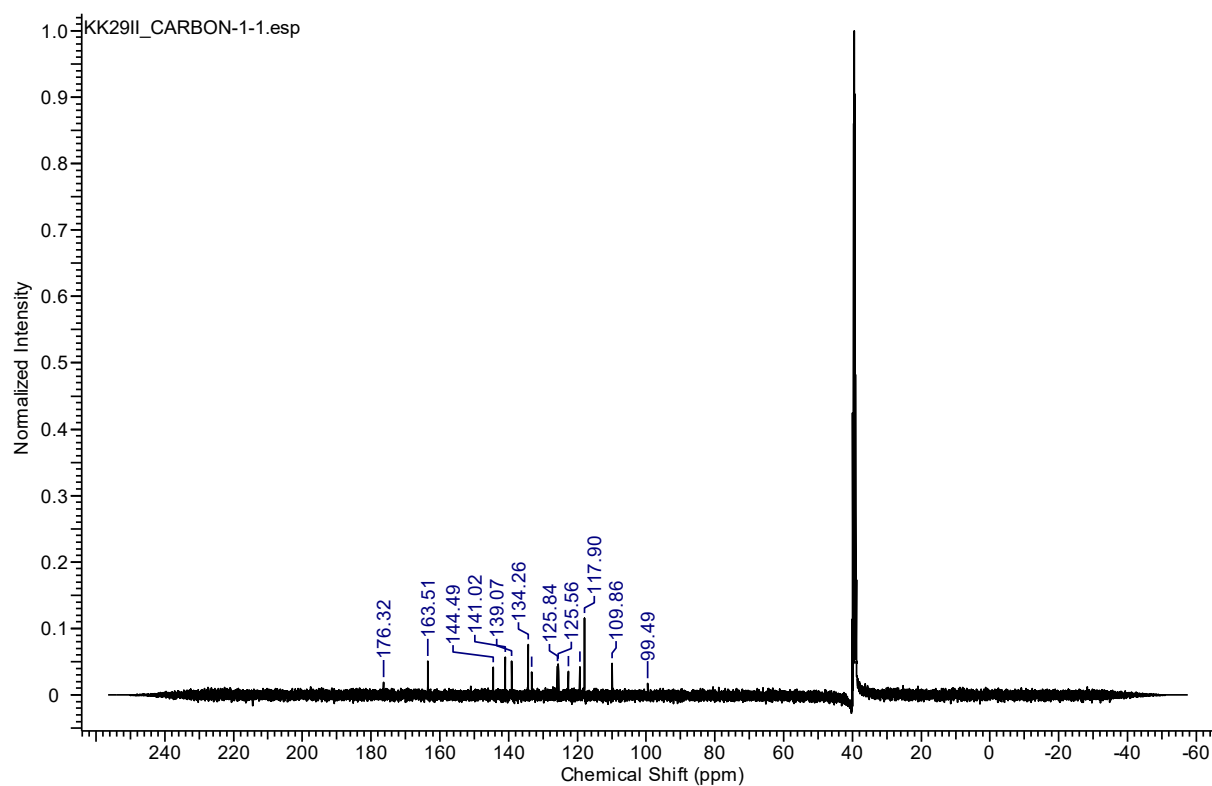


Figure S22. ^{13}C -NMR (DMSO- d_6) spectrum of *N*-(3,5-dichlorophenyl)-4-hydroxyquinoline-3-carboxamide (**3d**).

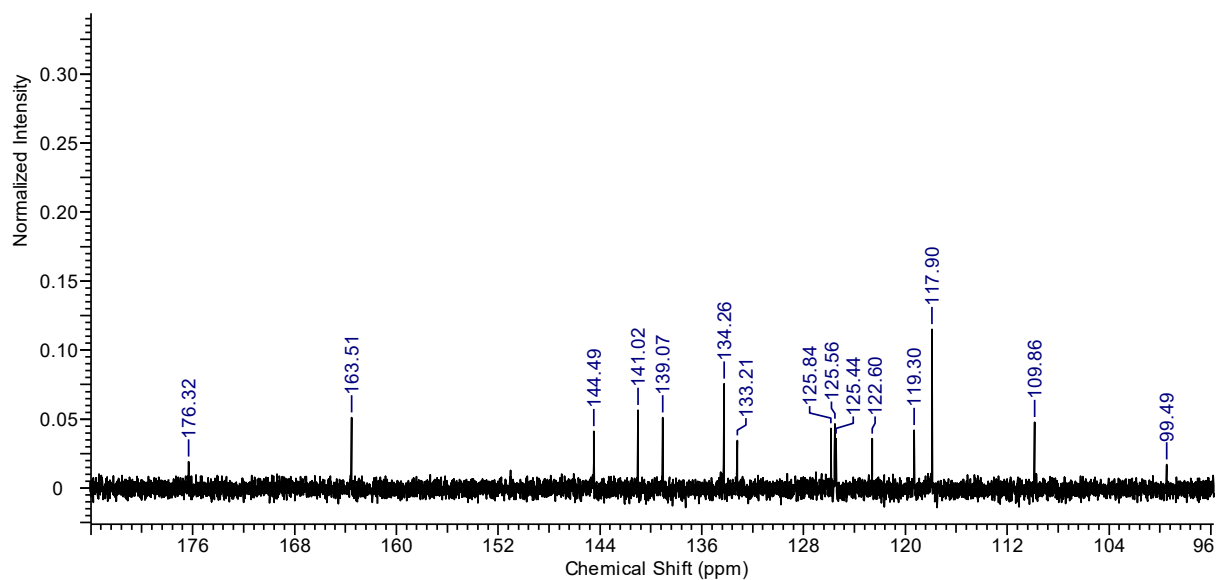


Figure S23. Detail of ^{13}C -NMR (DMSO- d_6) spectrum of *N*-(3,5-dichlorophenyl)-4-hydroxyquinoline-3-carboxamide (**3d**)

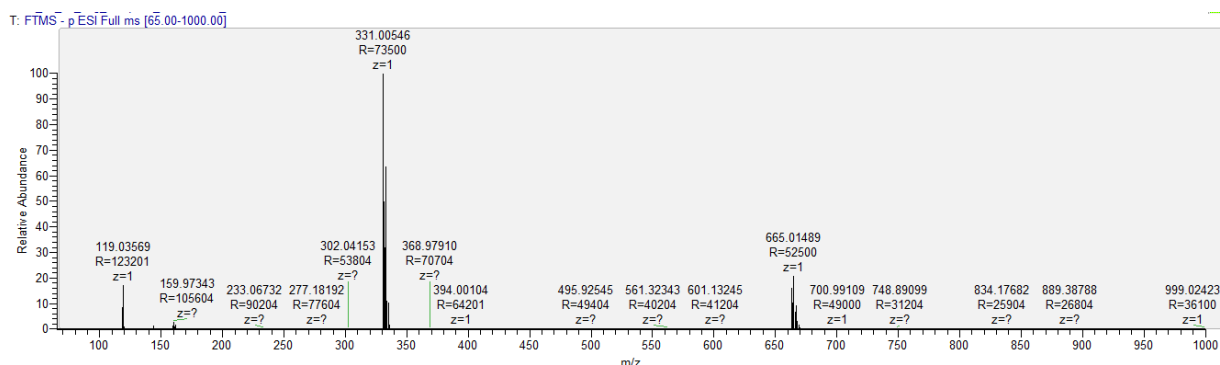


Figure S24. Detail of HRMS spectrum of *N*-(3,5-dichlorophenyl)-4-hydroxyquinoline-3-carboxamide (**3d**)

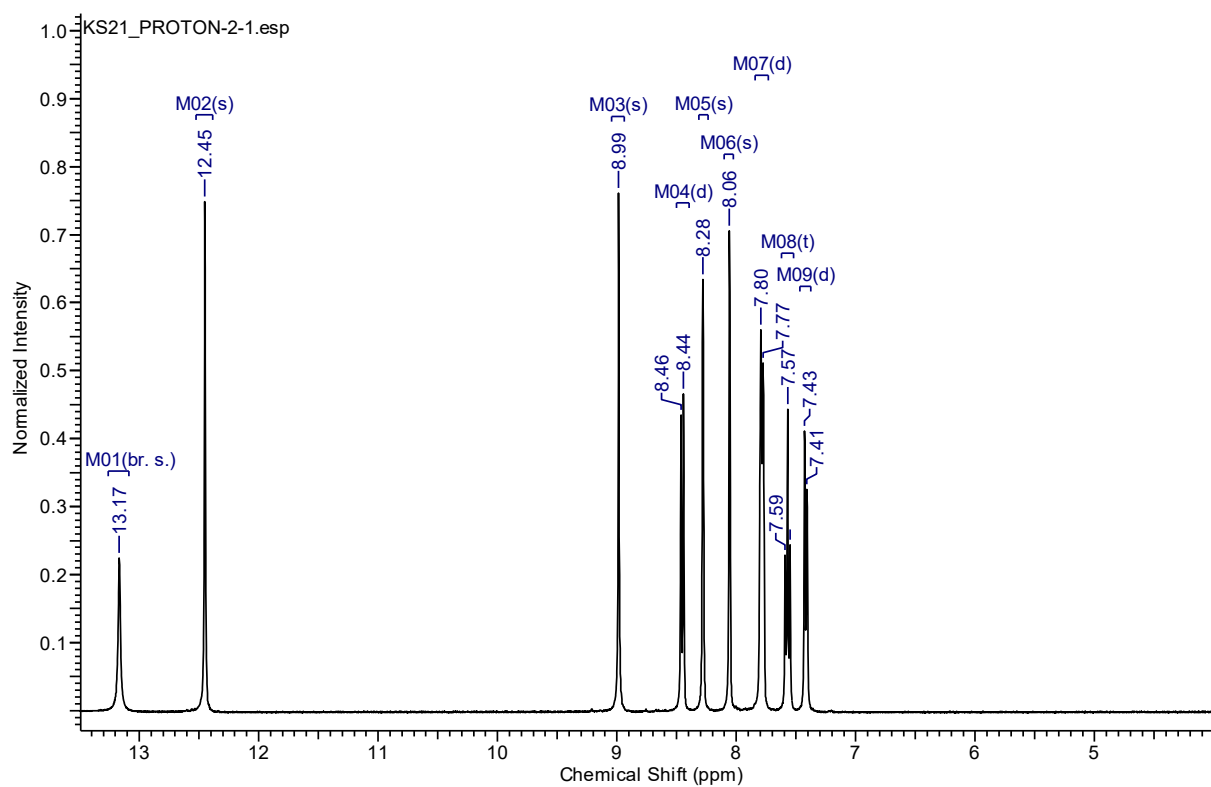


Figure S25. ^1H -NMR (DMSO- d_6) spectrum of 4-hydroxy-7-(trifluoromethyl)-*N*-[3-(trifluoromethyl)phenyl]quinoline-3-carboxamide (**4a**)

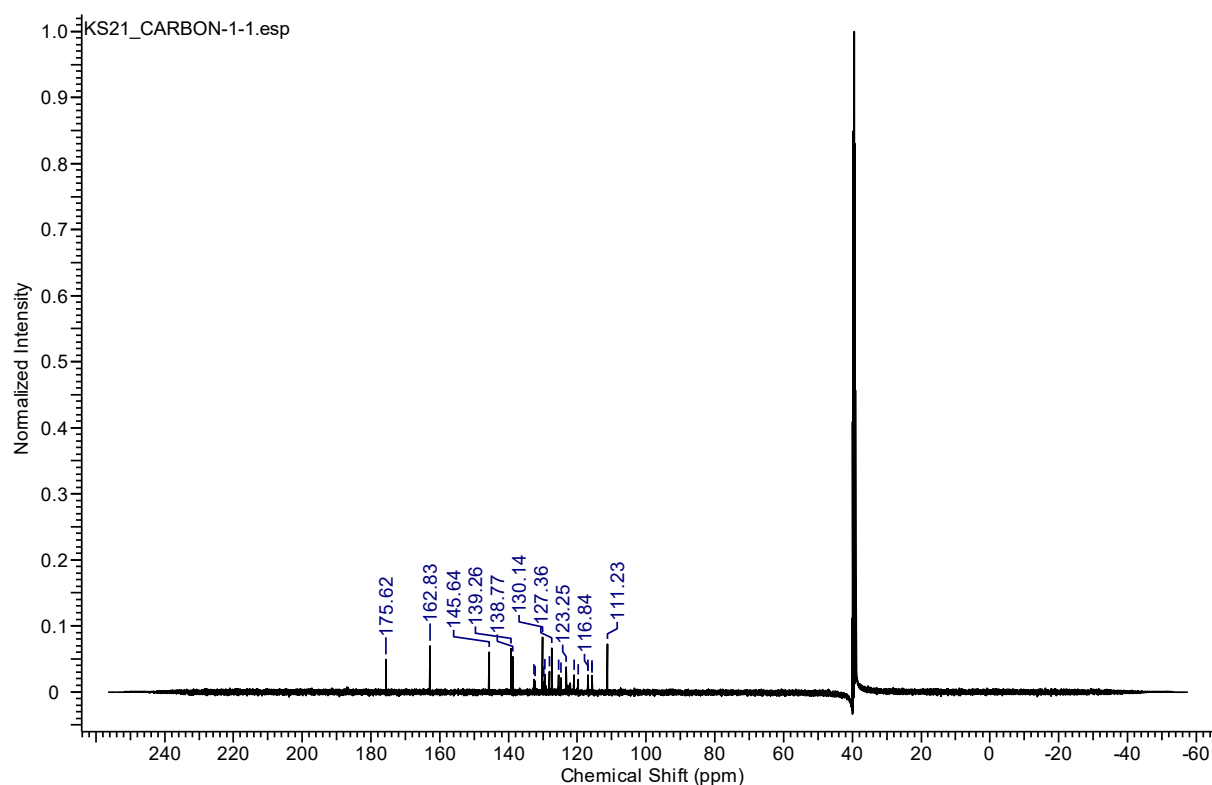


Figure S26. ^{13}C -NMR (DMSO- d_6) spectrum of 4-hydroxy-7-(trifluoromethyl)-*N*-[3-(trifluoromethyl)phenyl]quinoline-3-carboxamide (**4a**).

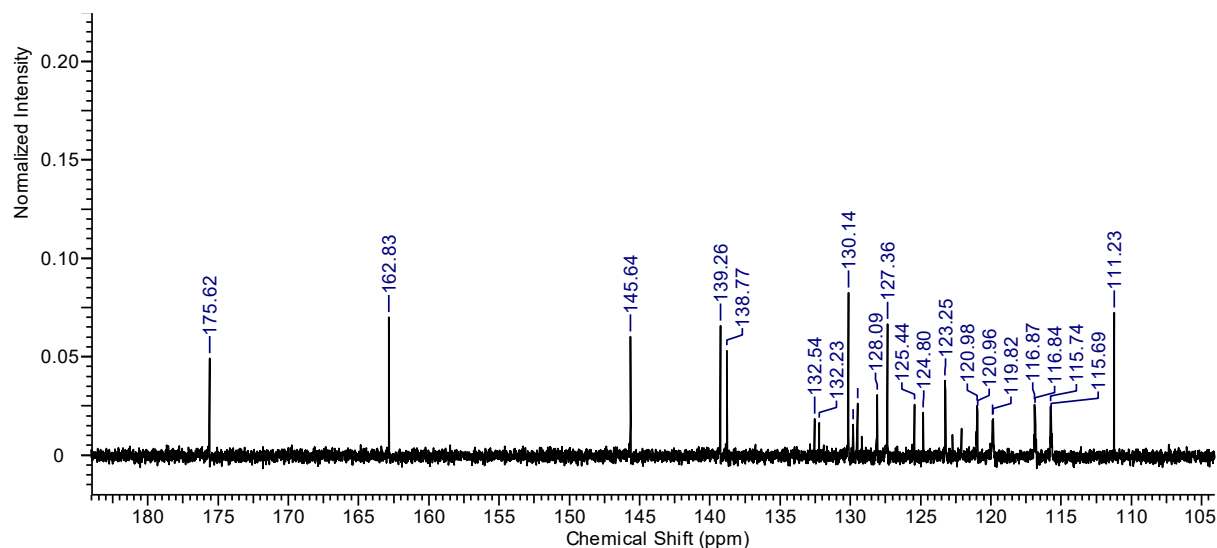


Figure S27. Detail of ^{13}C -NMR (DMSO- d_6) spectrum of 4-hydroxy-7-(trifluoromethyl)-*N*-[3-(trifluoromethyl)phenyl]quinoline-3-carboxamide (**4a**)

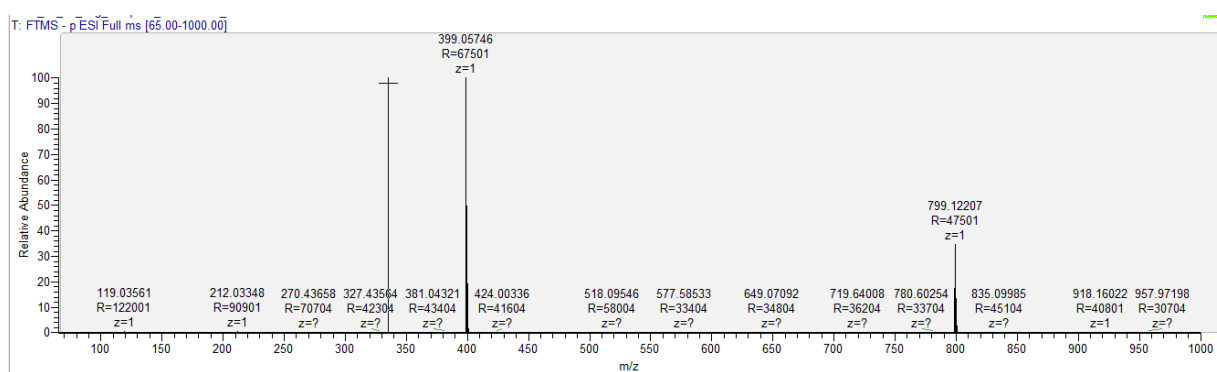


Figure S28. Detail of HRMS spectrum of 4-hydroxy-7-(trifluoromethyl)-*N*-[3-(trifluoromethyl)phenyl]quinoline-3-carboxamide (**4a**)

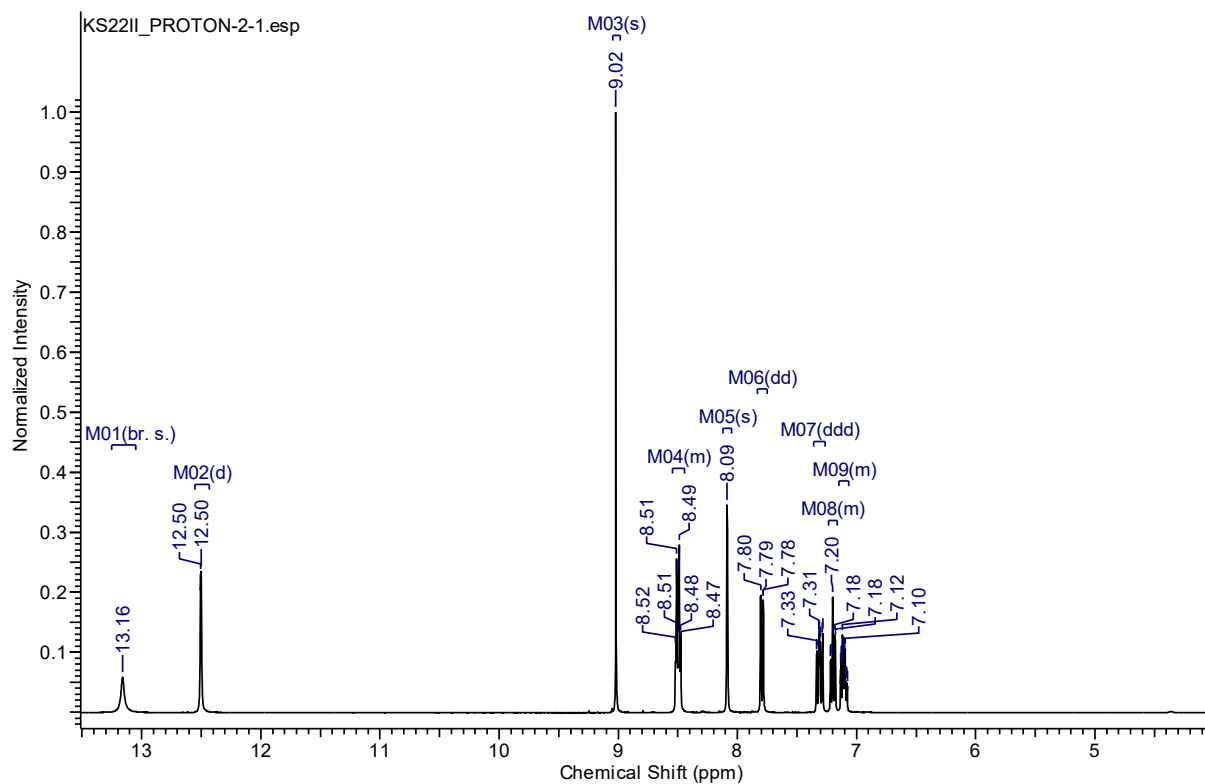


Figure S29. ¹H-NMR (DMSO-d₆) spectrum of 4-hydroxy-7-(trifluoromethyl)-N-[4-(trifluoromethyl)phenyl] quinoline-3-carboxamide (**4b**)

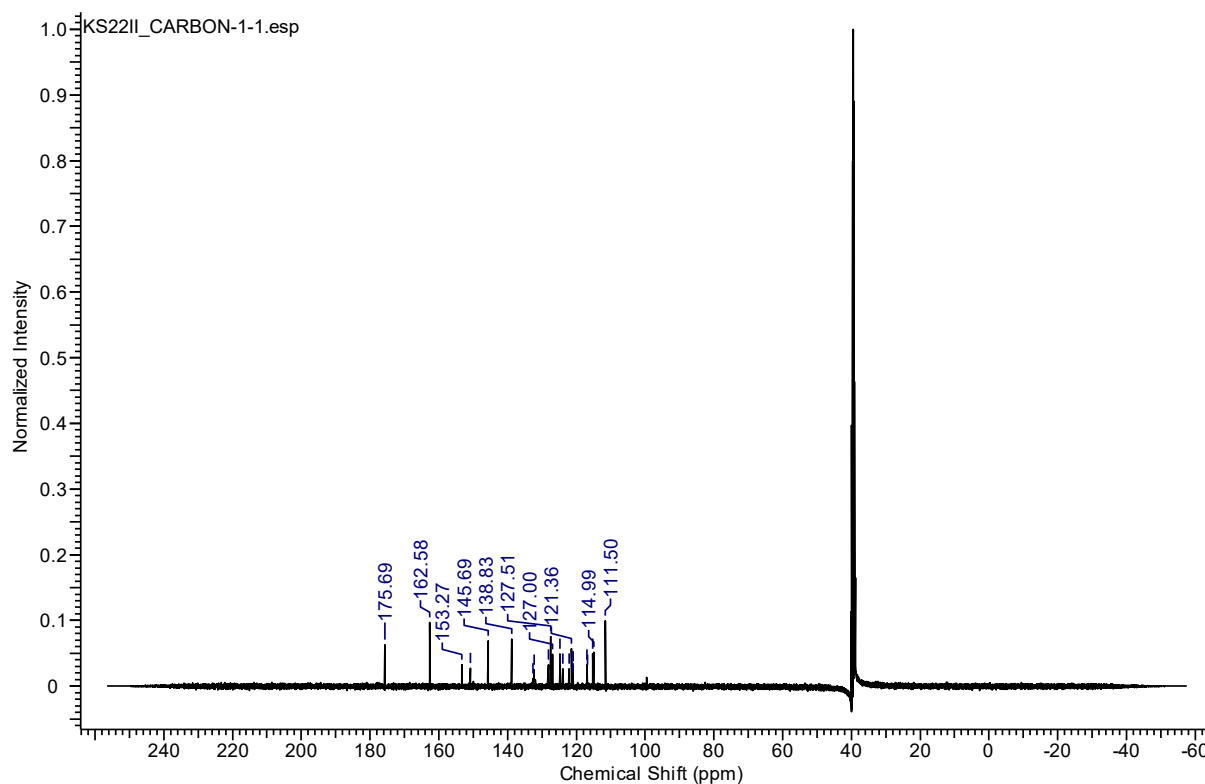


Figure S30. ¹³C-NMR (DMSO-d₆) spectrum of 4-hydroxy-7-(trifluoromethyl)-N-[4-(trifluoromethyl)phenyl] quinoline-3-carboxamide (**4b**)

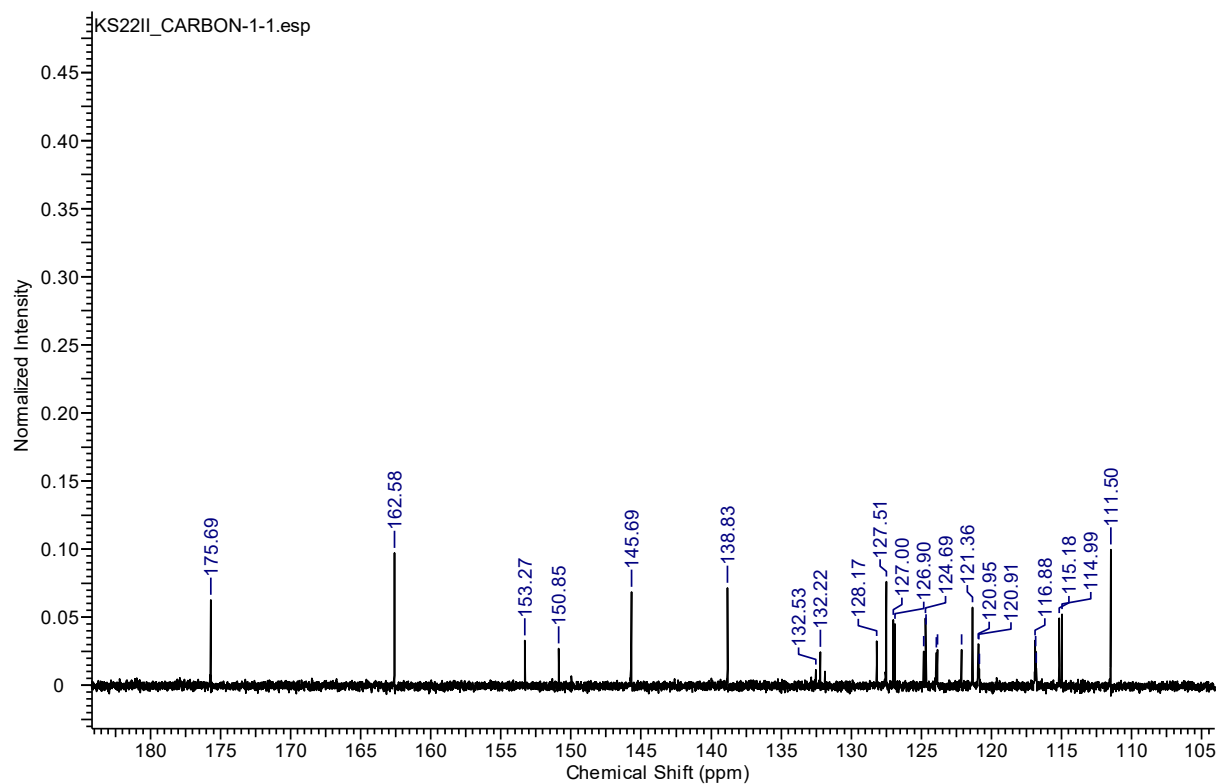


Figure S31. Detail of ^{13}C -NMR (DMSO- d_6) spectrum of 4-hydroxy-7-(trifluoromethyl)-*N*-[4-(trifluoromethyl)phenyl]quinoline-3-carboxamide (**4b**)

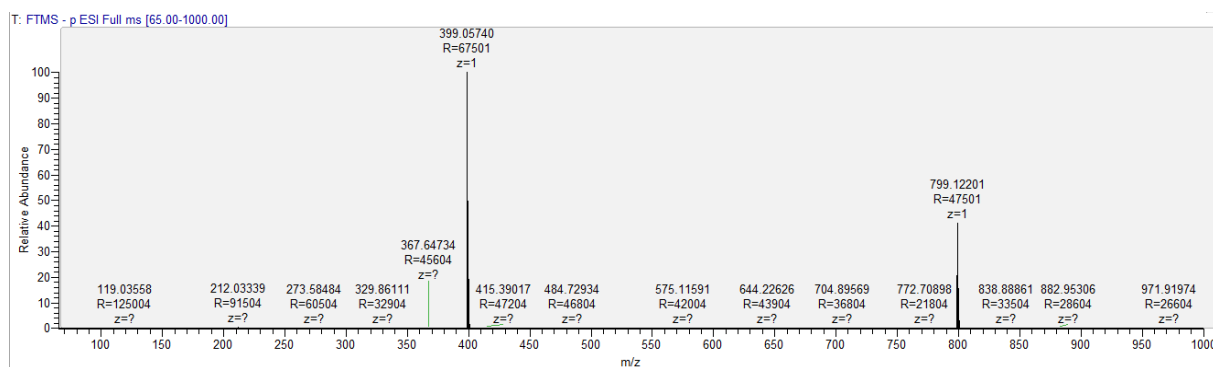


Figure S32. Detail of HRMS spectrum of 4-hydroxy-7-(trifluoromethyl)-*N*-[4-(trifluoromethyl)phenyl]quinoline-3-carboxamide (**4b**).

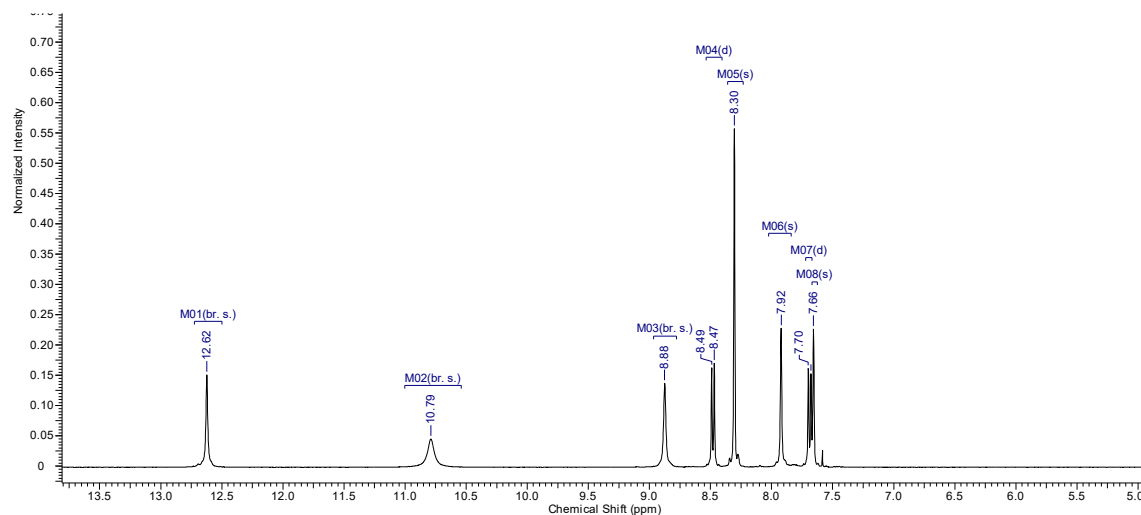


Figure S33. ^1H -NMR ($\text{CD}_3\text{CN}-d_3$) spectrum of *N*-[3,5-bis(trifluoromethyl)phenyl]-4-hydroxy-7-(trifluoromethyl)quinoline-3-carboxamide (**4c**)

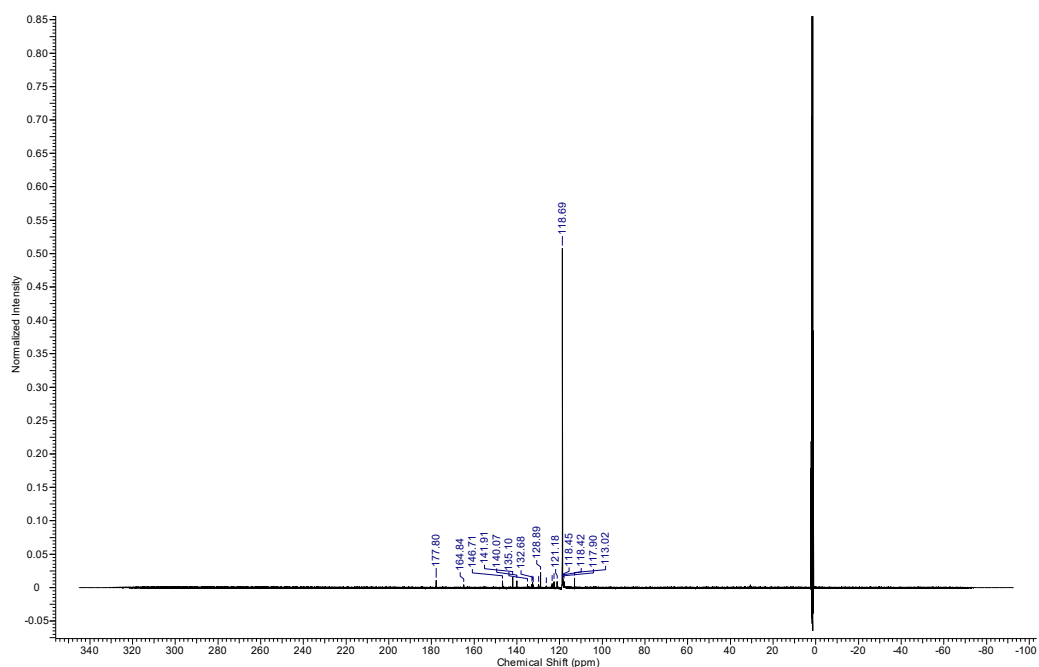


Figure S34. ^{13}C -NMR ($\text{CD}_3\text{CN-d}_3$) spectrum of *N*-[3,5-bis(trifluoromethyl)phenyl]-4-hydroxy-7-(trifluoromethyl)quinoline-3-carboxamide (**4c**).

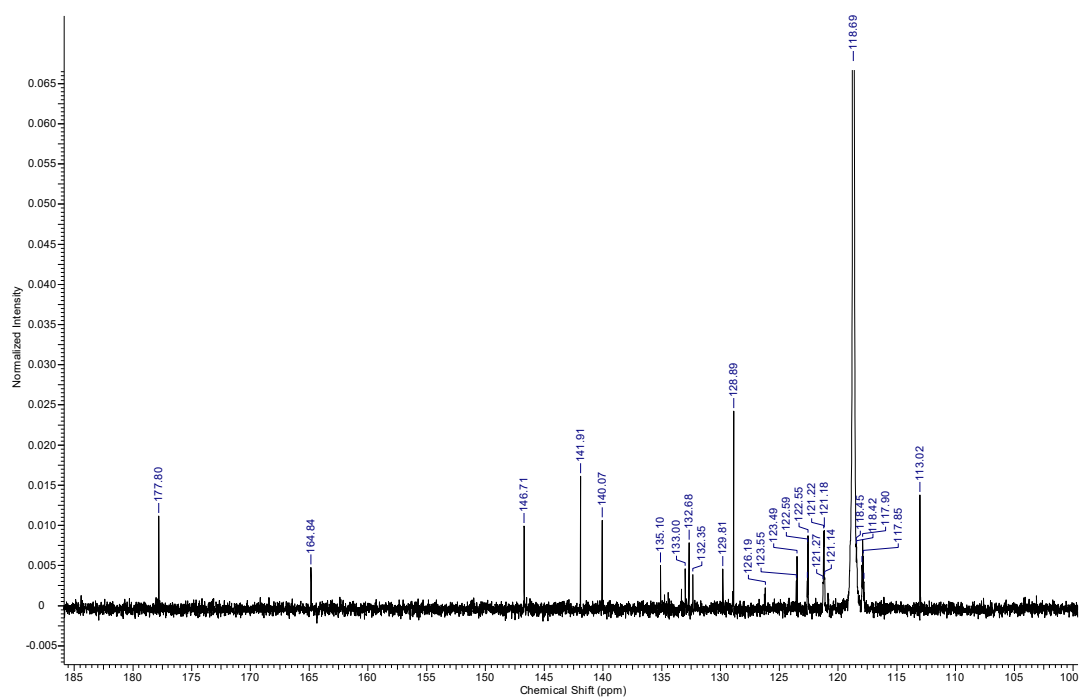


Figure S35. Detail of ^{13}C -NMR ($\text{CD}_3\text{CN-d}_3$) spectrum of *N*-[3,5-bis(trifluoromethyl)phenyl]-4-hydroxy-7-(trifluoromethyl)quinoline-3-carboxamide (**4c**)

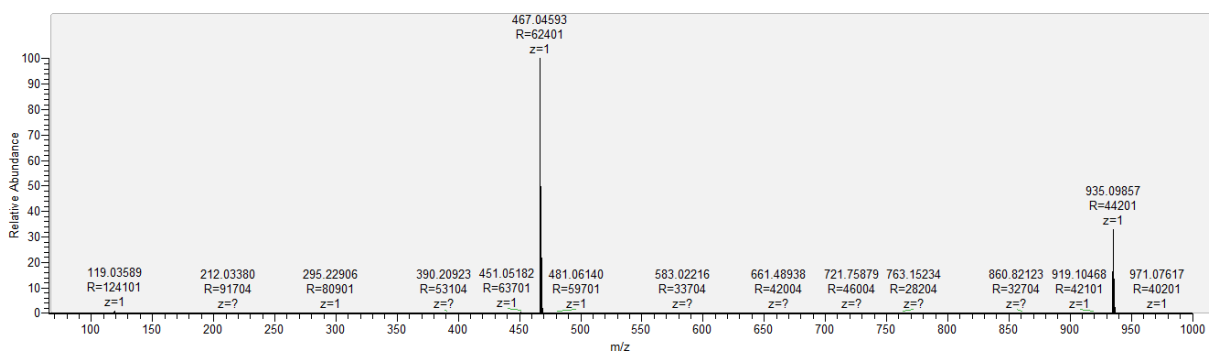


Figure S36. Detail of HRMS spectrum of *N*-[3,5-bis(trifluoromethyl)phenyl]-4-hydroxy-7-(trifluoromethyl)quinoline-3-carboxamide (**4c**)

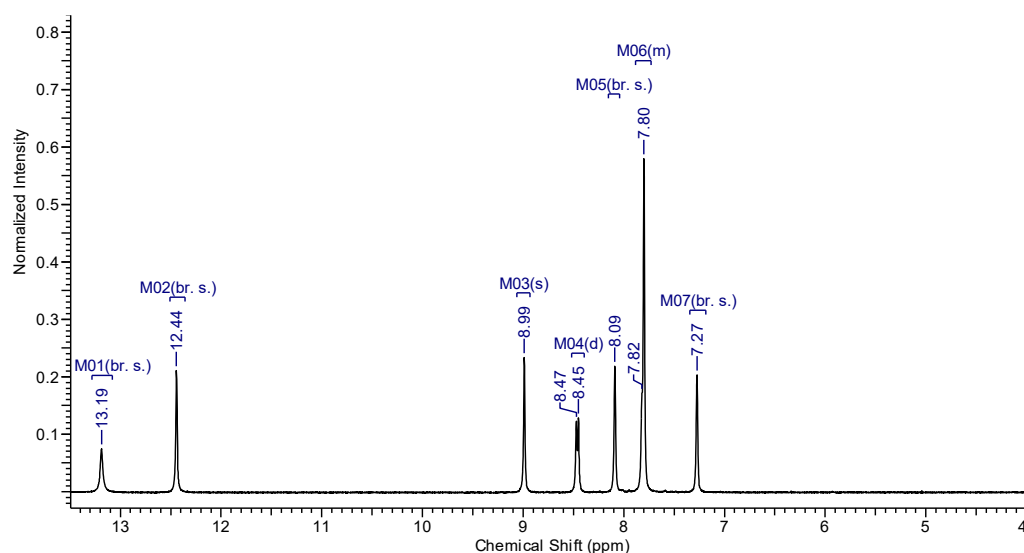


Figure S37. ^1H -NMR (DMSO-d_6) spectrum of *N*-(3,5-dichlorophenyl)-4-hydroxy-7-(trifluoromethyl)quinoline-3-carboxamide (**4d**)

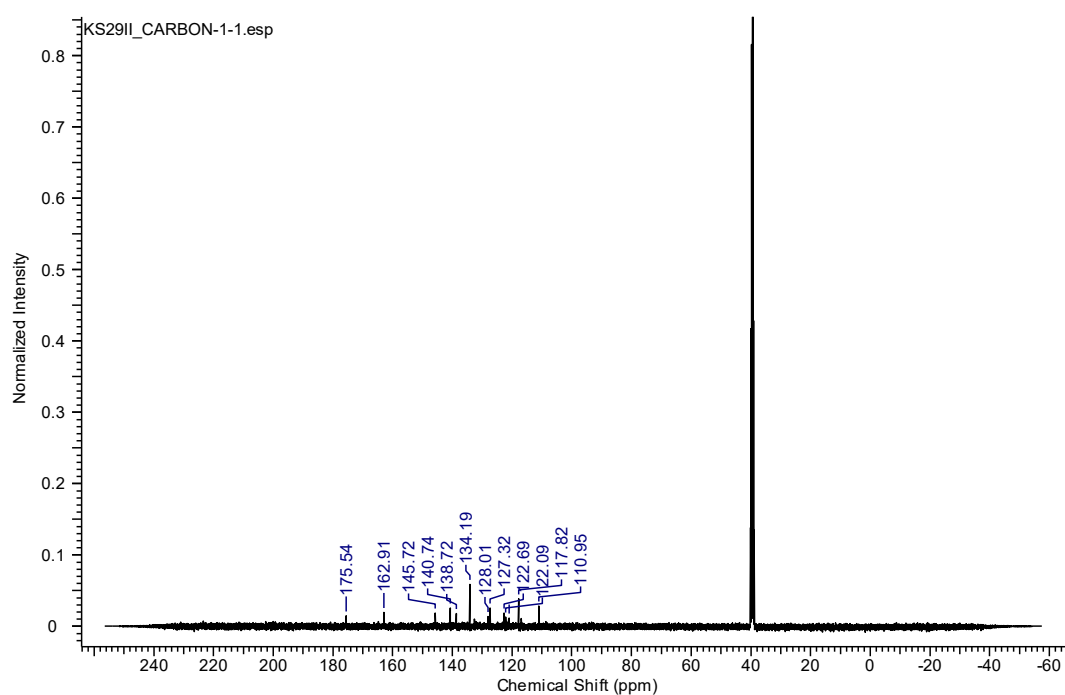


Figure S38. ^{13}C -NMR (DMSO-d_6) spectrum of *N*-(3,5-dichlorophenyl)-4-hydroxy-7-(trifluoromethyl)quinoline-3-carboxamide (**4d**)

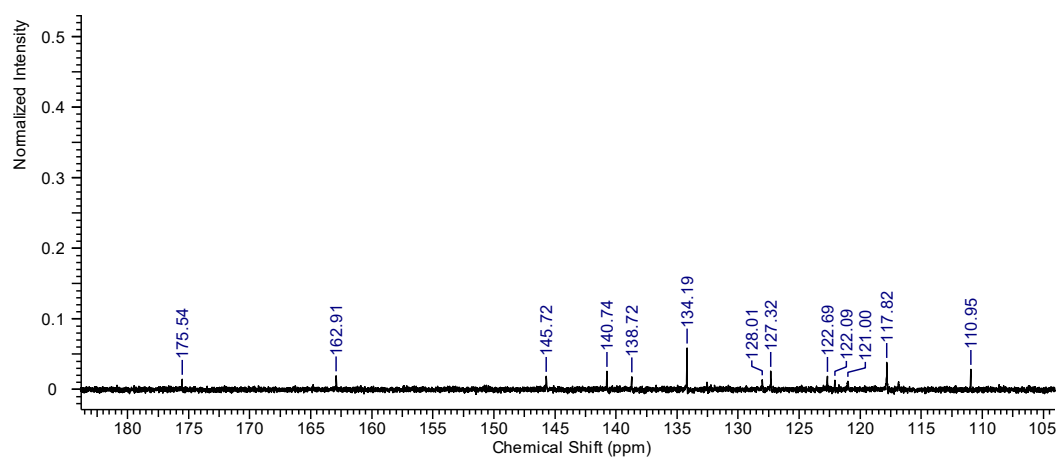


Figure S39. Detail of ^{13}C -NMR (DMSO-d_6) spectrum of *N*-(3,5-dichlorophenyl)-4-hydroxy-7-(trifluoromethyl)quinoline-3-carboxamide (**4d**)

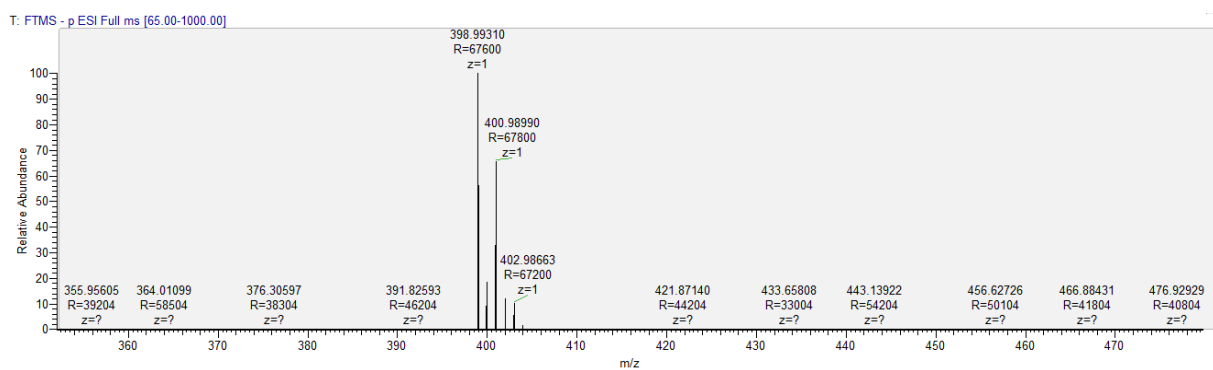


Figure S40. Detail of HRMS spectrum of *N*-(3,5-dichlorophenyl)-4-hydroxy-7-(trifluoromethyl)quinoline-3-carboxamide (**4d**).

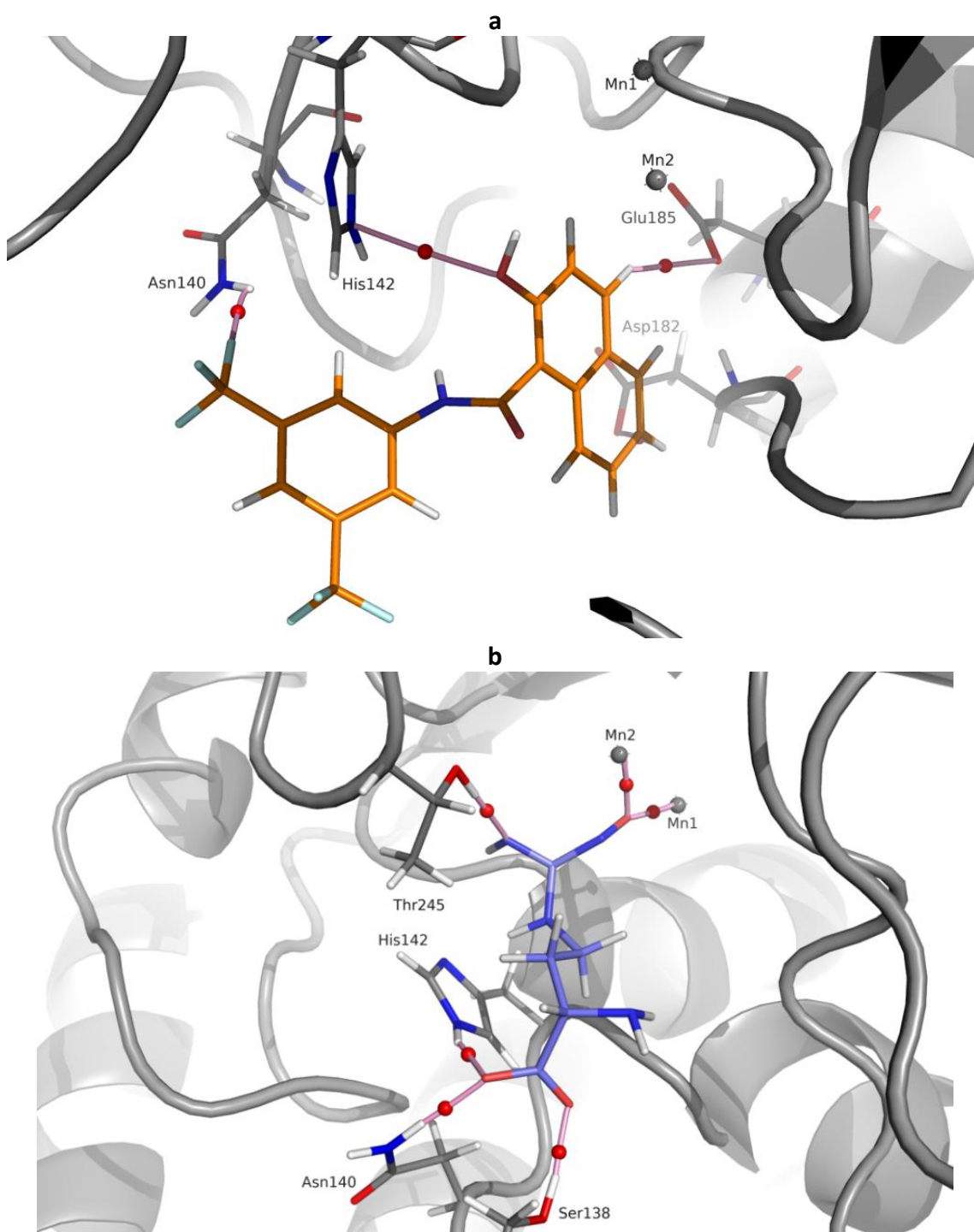


Figure S41. (a) Compound **1c**, (b) NNH

Dose-response curve of different compounds in Leishmania mexicana cells

Figures S42 to S57 show the dose-response curves of various compounds in *Leishmania mexicana* cells. Data are expressed relative to untreated control (100 %). The mean $IC_{50} \pm SD$ was calculated from independent experiments.

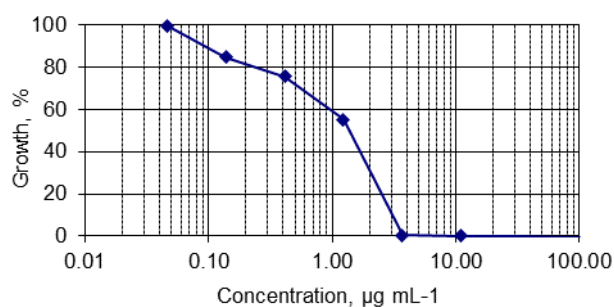


Figure S42. Dose-response curve of compound **1a**

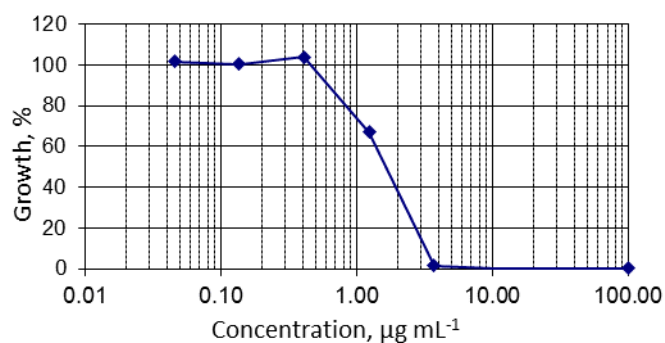


Figure S43. Dose-response curve of compound **1b**

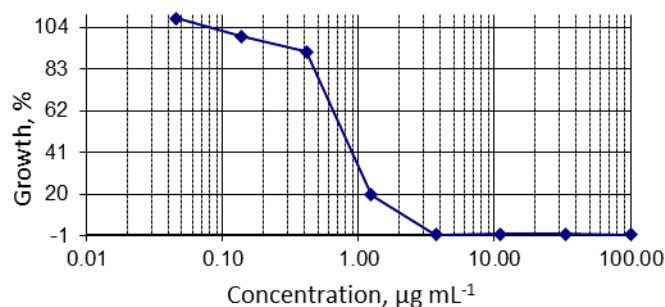


Figure S44. Dose-response curve of compound **1c**

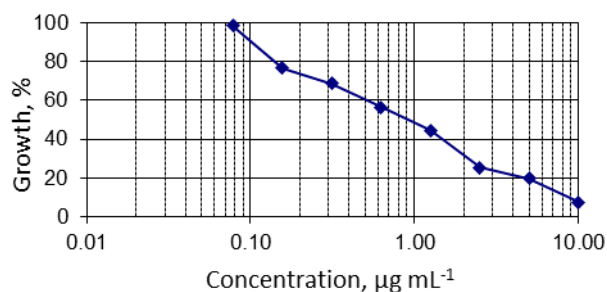


Figure S45. Dose-response curve of compound **1d**

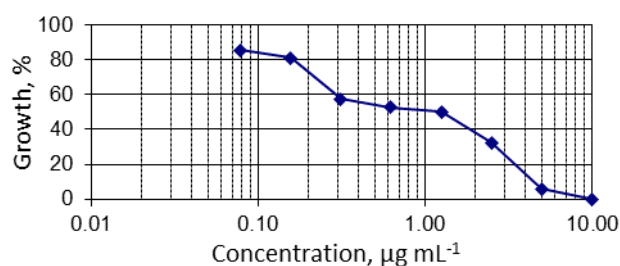
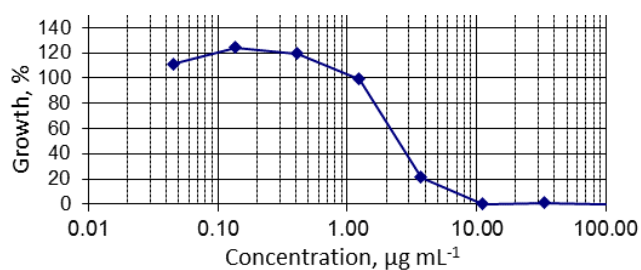
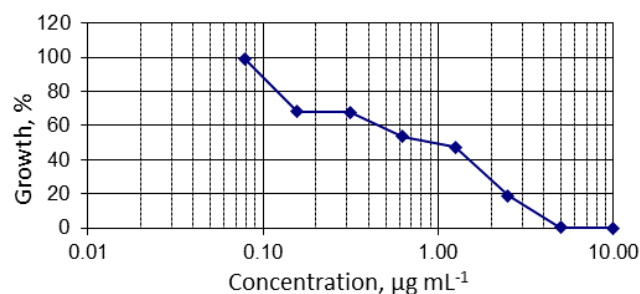
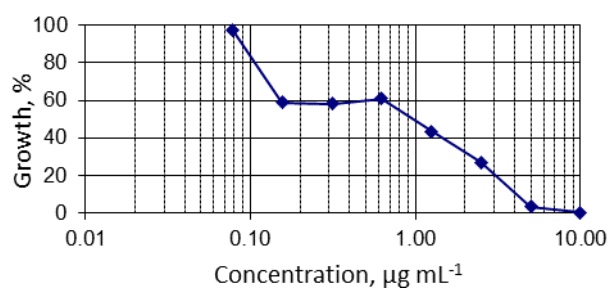
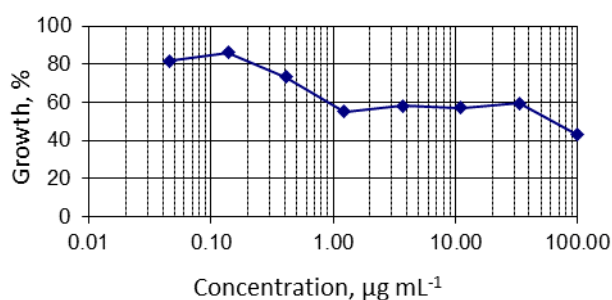
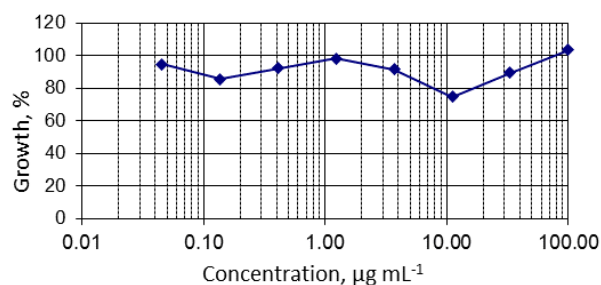
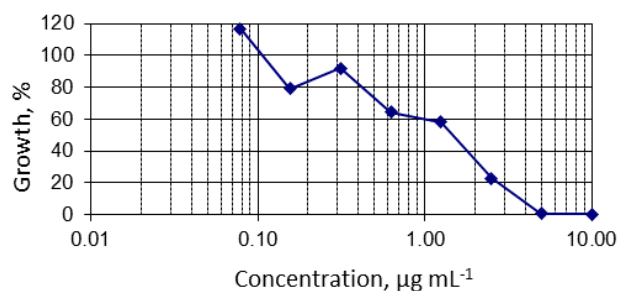


Figure S46. Dose-response curve of compound **2a**

**Figure S47.** Dose-response curve of compound 2b**Figure S48.** Dose-response curve of compound 2c**Figure S49.** Dose-response curve of compound 2d**Figure S50.** Dose-response curve of compound 3a**Figure S51.** Dose-response curve of compound 3b**Figure S52.** Dose-response curve of compound 3c

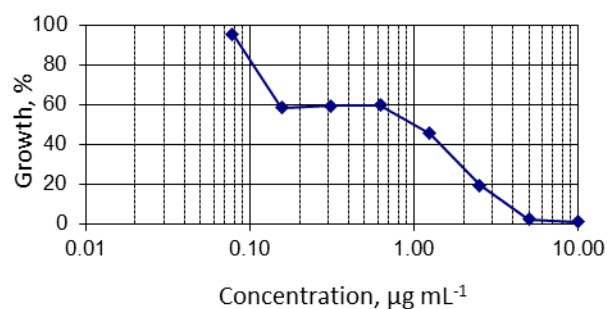


Figure S53. Dose-response curve of compound **3d**

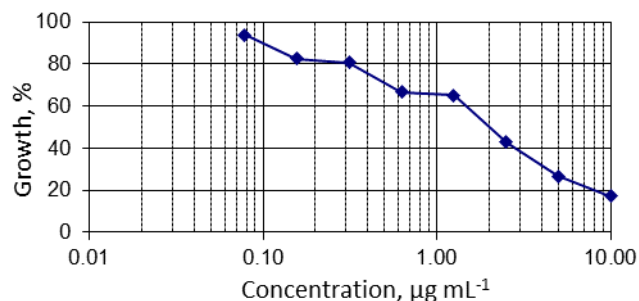


Figure S54. Dose-response curve of compound **4a**

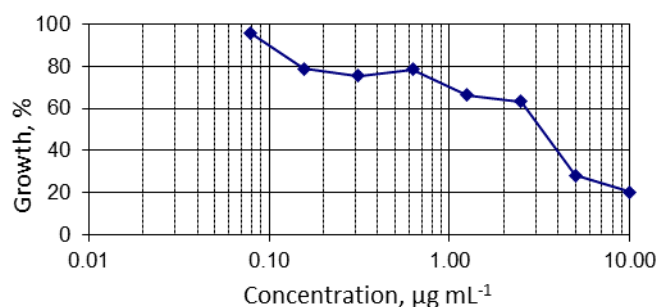


Figure S55. Dose-response curve of compound **4b**

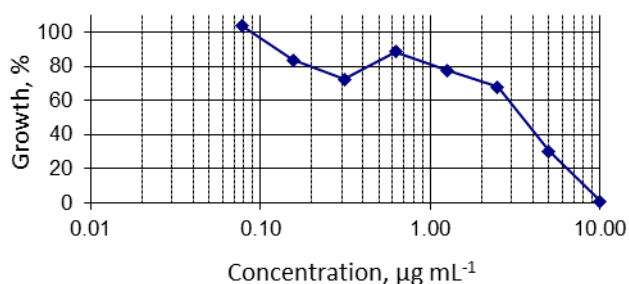


Figure S56. Dose-response curve of compound **4c**

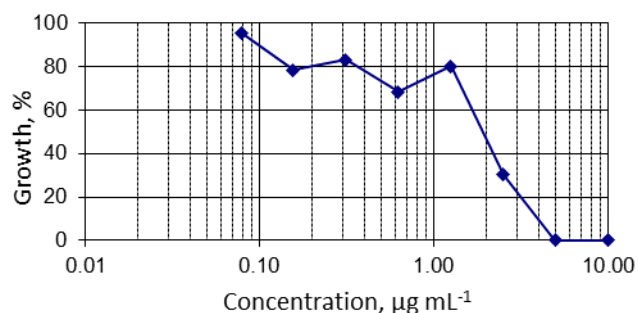
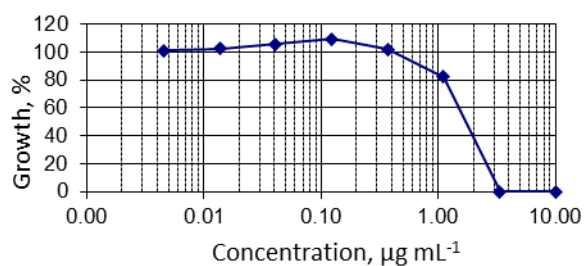
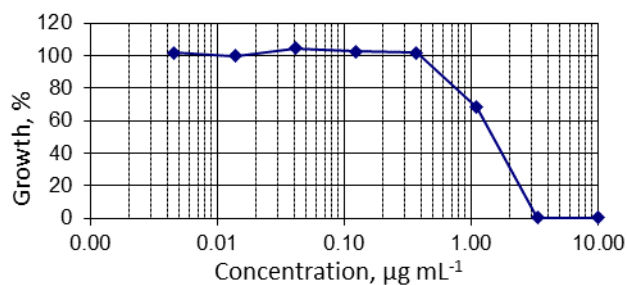
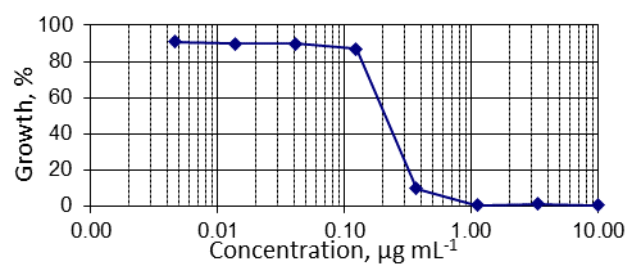
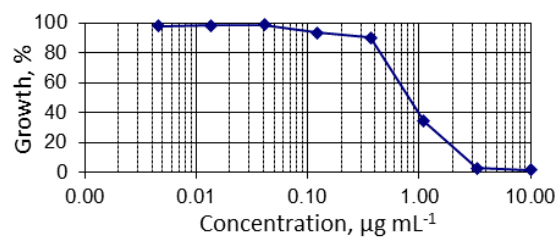
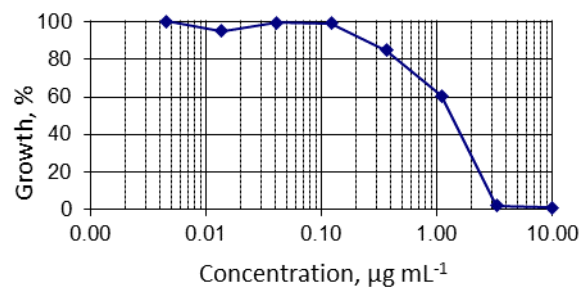
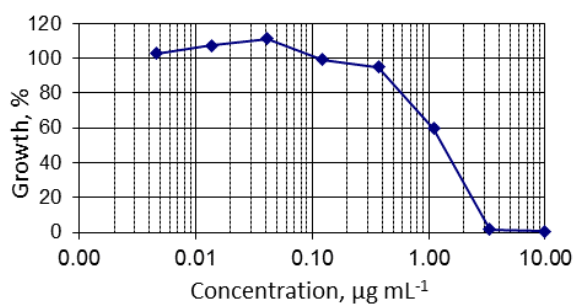
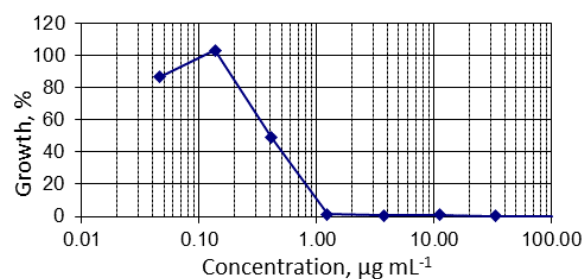
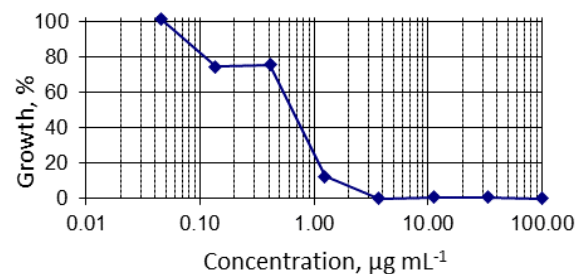
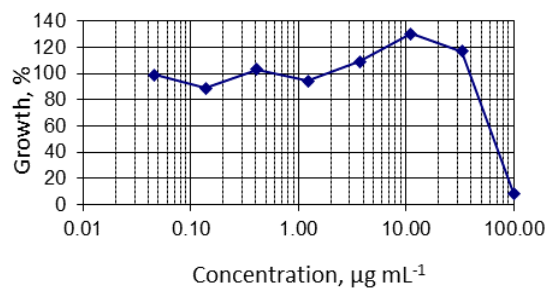
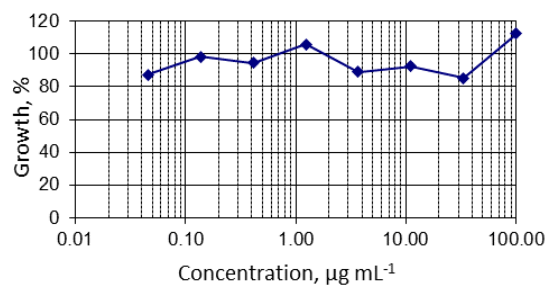
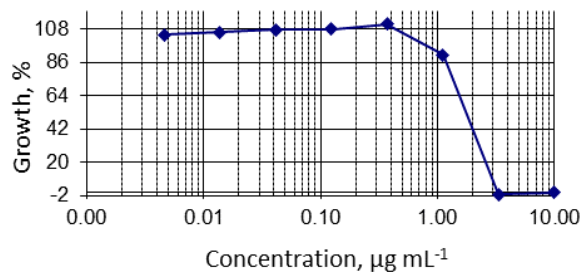
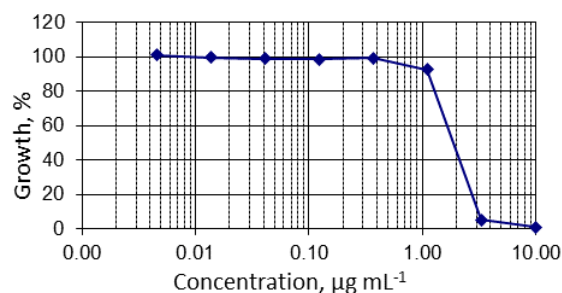


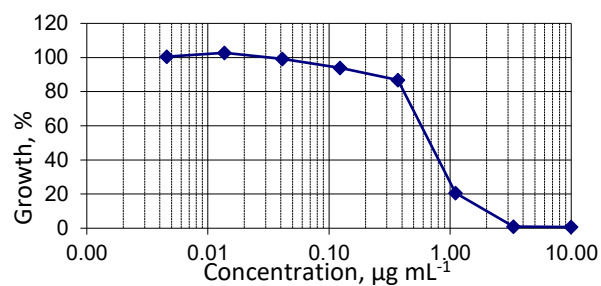
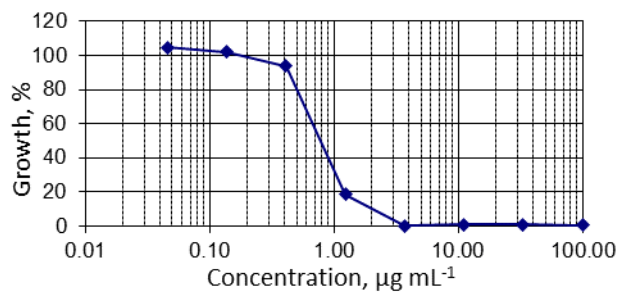
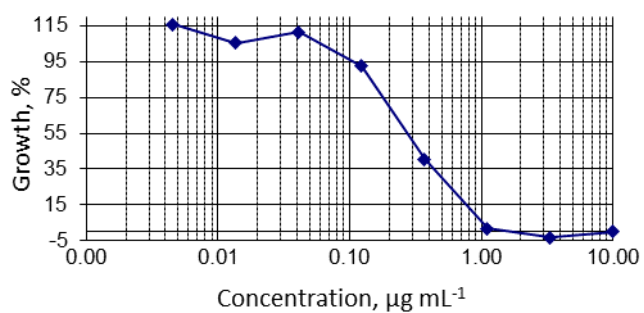
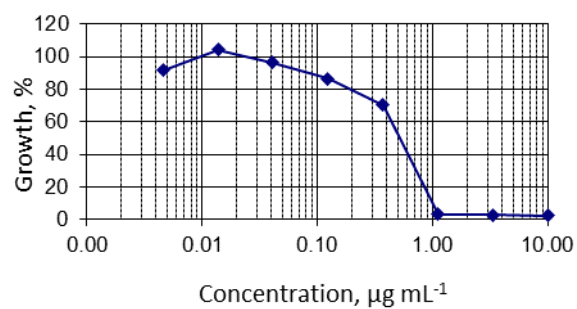
Figure S57. Dose-response curve of compound **4d**

Dose-response curve of different compounds in Trypanosoma brucei

Figures S58 to S73 show the dose-response curves of various compounds in *Trypanosoma brucei* cells. Data are expressed in relation to the untreated control (100 %). Mean $\text{IC}_{50} \pm \text{SD}$ was calculated from independent experiments

**Figure S58.** Dose-response curve of compound 1a**Figure S59.** Dose-response curve of compound 1b**Figure S60.** Dose-response curve of compound 1c**Figure S61.** Dose-response curve of compound 1d**Figure S62.** Dose-response curve of compound 2a**Figure S63.** Dose-response curve of compound 2b

**Figure S64.** Dose-response curve of compound 2c**Figure S65.** Dose-response curve of compound 2d**Figure S66.** Dose-response curve of compound 3a**Figure S67.** Dose-response curve of compound 3b**Figure S68.** Dose-response curve of compound 3c**Figure S69.** Dose-response curve of compound 3d

**Figure S70.** Dose-response curve of compound **4a****Figure S71.** Dose-response curve of compound **4b****Figure S72.** Dose-response curve of compound **4c****Figure S73.** Dose-response curve of compound **4d**