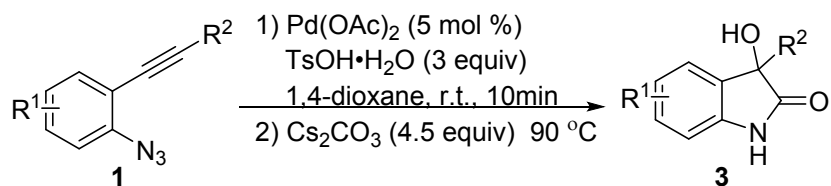


General Considerations

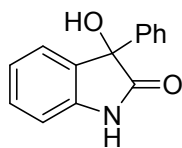
Unless specified, all reagents and starting materials were purchased from commercial sources and used as received. Solvents were purified following standard literature procedures. Analytical thin layer chromatography (TLC) was performed using pre-coated silica gel plate. Visualization was achieved by UV light (254 nm). Flash chromatography was performed using silica gel and a gradient solvent system (Ethyl acetate: Petrol ether as eluant). ¹H and ¹³C NMR spectra were measured on 400 and 600 MHz spectrometers. Chemical shifts (ppm) were recorded with tetramethylsilane (TMS) as the internal reference standard. Multiplicities are given as: s (singlet), bs (broad singlet), d (doublet), t (triplet), dd (doublet of doublets) or m (multiplet). The number of protons (n) for a given resonance is indicated by nH and coupling constants are reported as a J value in Hz. Infrared spectra were recorded on a FTIR spectrometer. High resolution mass spectra (HRMS) were obtained on a LTQ Orbitrap LC/HRMS mass spectrometer. All the starting materials **1** (2-alkynyl arylazides) were prepared by our reported methods.¹

General experimental procedure for the synthesis of **3**



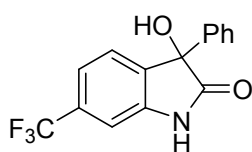
To a 10 ml of flask was added 2-alkynyl arylazides **1** (0.1 mmol, 1 equiv), $TsOH \cdot H_2O$ **2** (0.3 mmol, 3 equiv), $Pd(OAc)_2$ (5 mol%), and 1,4-dioxane (1 mL). The reaction mixture was stirred at room temperature. After the 2-alkynyl arylazides **1** disappeared monitored by TLC (about 10 min for most of **1**), Cs_2CO_3 (0.45 mmol, 4.5 equiv) was added to the reaction solution, which was then stirred at 90 °C and monitored by TLC analysis. On completion, the reaction mixture was directly subjected to purification by flash column chromatography on silica gel to give the desired **3**. (eluent: petrol ether: ethyl acetate = 8:1 to 2:1)

Hydroxy-3-phenylindolin-2-one (3a)



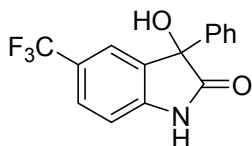
Known compound²; isolated yield = 81%, 18.2 mg; yellow solid; ¹H NMR (DMSO-*d*₆, 600 MHz): δ = 6.60 (d, *J* = 6.6 Hz, 1 H), 6.89-6.91 (m, 1 H), 6.95-6.98 (m, 1 H), 7.09-7.11 (m, 1 H), 7.23-7.32 (m, 6 H), 10.37 (s, 1 H).

3-Hydroxy-3-phenyl-6-(trifluoromethyl)indolin-2-one (3b)



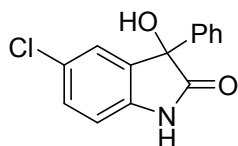
Known compound³; isolated yield = 82%, 24.0 mg; yellow solid; ¹H NMR (DMSO-*d*₆, 600 MHz): δ = 6.86-6.88 (m, 1 H), 7.15 (d, *J* = 7.8 Hz, 1 H), 7.29-7.35 (m, 7 H), 10.73 (s, 1 H).

3-Hydroxy-3-phenyl-5-(trifluoromethyl)indolin-2-one (3c)



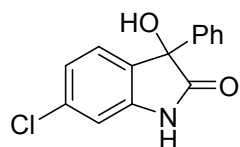
Isolated yield = 68%, 20.0 mg; yellow solid; m.p. 231.3-234.6 °C; ¹H NMR (DMSO-*d*₆, 600 MHz): δ = 6.86 (s, 1 H), 7.10 (d, *J* = 7.8 Hz, 1 H), 7.29-7.30 (m, 3 H), 7.33-7.37 (m, 3 H), 7.65 (dd, *J*₁ = 1.2 Hz, *J*₂ = 8.4 Hz, 1 H), 10.84 (s, 1 H); ¹³C NMR (DMSO-*d*₆, 150 MHz): δ = 77.5, 110.8, 121.8 (d, *J* = 3.2 Hz), 123.1 (q, *J* = 31.8 Hz), 124.1, 125.8 (d, *J* = 17.0 Hz), 127.6 (d, *J* = 3.8 Hz), 128.3, 128.8, 135.0, 141.0, 146.2, 178.8; HRMS (ESI) calcd for C₁₅H₁₁F₃NO₂ [M+H]⁺ 294.0742, found 294.0735.

5-Chloro-3-hydroxy-3-phenylindolin-2-one (3d)



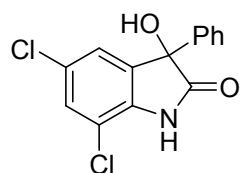
Known compound²; isolated yield = 62%, 16.0 mg; yellow solid; ¹H NMR (DMSO-*d*₆, 600 MHz): δ = 6.78 (s, 1 H), 6.92 (d, *J* = 8.4 Hz, 1 H), 7.10 (d, *J* = 2.4 Hz, 1 H), 7.27-7.34 (m, 6 H), 10.56 (s, 1 H).

6-Chloro-3-hydroxy-3-phenylindolin-2-one (3e)



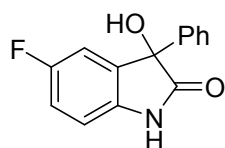
Isolated yield = 63%, 16.4 mg; black solid; m.p. 239.0-240.0 °C; ¹H NMR (DMSO-*d*₆, 600 MHz): δ = 6.72 (s, 1 H), 6.92 (d, *J* = 1.8 Hz, 1 H), 7.01 (dd, *J*₁ = 1.8 Hz, *J*₂ = 7.8 Hz, 1 H), 7.10 (d, *J* = 7.8 Hz, 1 H), 7.27-7.28 (m, 3 H), 7.31-7.33 (m, 2 H), 10.57 (s, 1 H). ¹³C NMR (DMSO-*d*₆, 150 MHz): δ = 77.4, 110.4, 122.3, 125.8, 126.7, 128.1, 128.6, 133.1, 133.9, 141.4, 144.0, 178.8.

5,7-Dichloro-3-hydroxy-3-phenylindolin-2-one (3f)



Isolated yield = 74%, 21.7 mg; yellow solid; m.p. 224.0-226.0 °C; ¹H NMR (DMSO-*d*₆, 600 MHz): δ = 6.94 (s, 1 H), 7.12 (d, *J* = 2.4 Hz, 1 H), 7.29-7.36 (m, 5 H), 7.52 (d, *J* = 2.4 Hz, 1 H), 11.06 (s, 1 H); ¹³C NMR (DMSO-*d*₆, 150 MHz): δ = 78.4, 115.4, 124.0, 125.8, 127.1, 128.4, 128.8, 129.1, 137.3, 139.3, 140.6, 178.4; HRMS (ESI) calcd for C₁₄H₁₀Cl₂NO₂ [M+H]⁺ 294.0089, found 294.0093.

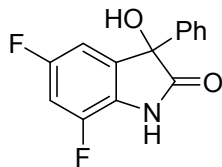
5-Fluoro-3-hydroxy-3-phenylindolin-2-one (3g)



Known compound⁴; isolated yield = 51%, 12.4 mg; yellow solid; ¹H NMR (DMSO-*d*₆, 400 MHz): δ = 6.77 (s, 1 H), 6.91 (dd, *J*₁ = 4.4 Hz, *J*₂ = 8.4 Hz, 1 H), 6.96 (dd, *J*₁ =

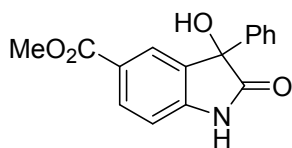
2.0 Hz, $J_2 = 8.0$ Hz, 1 H), 7.07-7.12 (m, 1 H), 7.26-7.35 (m, 5 H), 10.44 (s, 1 H).

5,7-Difluoro-3-hydroxy-3-phenylindolin-2-one (3h)



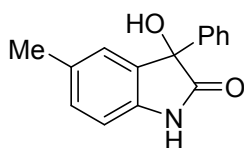
Isolated yield = 83%, 21.6 mg; yellow solid; m.p. 144.0-146.0 °C; ^1H NMR (DMSO- d_6 , 600 MHz): $\delta = 6.88$ -6.90 (m, 2 H), 7.24-7.28 (m, 1 H), 7.28-7.30 (m, 3 H), 7.33-7.35 (m, 2 H), 10.97 (s, 1 H); ^{13}C NMR (DMSO- d_6 , 150 MHz): $\delta = 78.0$, 105.1 (q, $J = 21.8$ Hz), 108.9 (d, $J = 27.3$ Hz), 125.8, 128.5 (d, $J = 65.0$ Hz), 129.3, 131.8, 137.6, 140.8, 146.2 (d, $J = 232.4$ Hz), 158.1 (d, $J = 240.0$ Hz), 178.5; HRMS (ESI) calcd for $\text{C}_{14}\text{H}_{10}\text{F}_2\text{NO}_2$ $[\text{M}+\text{H}]^+$ 262.0680, found 262.0691.

Methyl 3-hydroxy-2-oxo-3-phenylindoline-5-carboxylate (3i)



Isolated yield = 52%, 14.8 mg; black solid; m.p. 220.9-226.0 °C; ^1H NMR (DMSO- d_6 , 400 MHz): $\delta = 3.78$ (s, 3 H), 6.82 (s, 1 H), 7.03 (d, $J = 8.0$ Hz, 1 H), 7.27-7.29 (m, 3 H), 7.32-7.35 (m, 2 H), 7.63 (s, 1 H), 7.93 (d, $J = 8.0$ Hz, 1 H), 10.85 (s, 1 H); ^{13}C NMR (DMSO- d_6 , 100 MHz): $\delta = 52.4$, 77.4, 110.5, 123.8, 125.7, 125.9, 128.2, 128.8, 132.1, 134.5, 141.3, 147.1, 166.4, 179.1; HRMS (ESI) calcd for $\text{C}_{16}\text{H}_{14}\text{NO}_4$ $[\text{M}+\text{H}]^+$ 284.0923, found 284.0932.

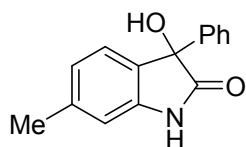
3-Hydroxy-5-methyl-3-phenylindolin-2-one (3j)



Known compound⁵; isolated yield = 78%, 18.1 mg; yellow solid; ^1H NMR (DMSO- d_6 , 400 MHz): $\delta = 2.20$ (s, 3 H), 6.57 (s, 1 H), 6.79 (d, $J = 8.0$ Hz, 1 H), 6.90 (s, 1 H),

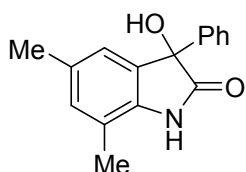
7.04 (dd, $J_1 = 0.8$ Hz, $J_2 = 7.6$ Hz, 1 H), 7.23-7.28 (m, 3 H), 7.29-7.33 (m, 2 H), 10.29 (s, 1 H).

3-Hydroxy-6-methyl-3-phenylindolin-2-one (3k)



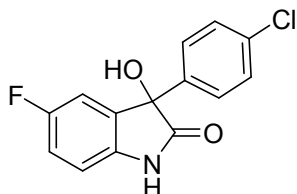
Known compound⁵; isolated yield = 80%, 18.6 mg; yellow solid; ¹H NMR (DMSO-*d*₆, 600 MHz): $\delta = 2.29$ (s, 3 H), 6.53 (s, 1 H), 6.71 (s, 1 H), 6.77 (d, $J = 7.2$ Hz, 1 H), 6.96 (d, $J = 7.8$ Hz, 1 H), 7.24-7.27 (m, 3 H), 7.29-7.31 (m, 2 H), 10.33 (s, 1 H).

3-Hydroxy-5,7-dimethyl-3-phenylindolin-2-one (3l)



Known compound⁵; isolated yield = 69%, 17.5 mg; yellow solid; ¹H NMR (DMSO-*d*₆, 400 MHz): $\delta = 2.17$ (s, 3 H), 2.21 (s, 3 H), 6.52 (s, 1 H), 6.71 (s, 1 H), 6.87 (s, 1 H), 7.22-7.28 (m, 4 H), 7.30-7.32 (m, 1 H), 10.34 (s, 1 H).

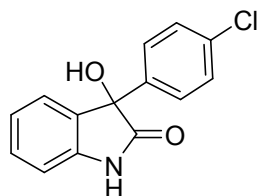
3-(4-Chlorophenyl)-5-fluoro-3-hydroxyindolin-2-one (3m)



Isolated yield = 60%, 16.8 mg; green solid; m.p. 178.7-199.4 °C; ¹H NMR (DMSO-*d*₆, 600 MHz): $\delta = 6.87$ (s, 1 H), 6.91 (dd, $J_1 = 4.2$ Hz, $J_2 = 8.4$ Hz, 1 H), 6.97-6.99 (m, 1 H), 7.09-7.12 (m, 1 H), 7.29 (d, $J = 8.4$ Hz, 2 H), 7.39 (d, $J = 8.4$ Hz, 2 H), 10.49 (s, 1 H). ¹³C NMR (DMSO-*d*₆, 150 MHz): $\delta = 77.7$, 111.4 (d, $J = 7.7$ Hz), 112.8 (d, $J = 24.3$ Hz), 116.3 (d, $J = 23.3$ Hz), 127.8, 128.7, 132.9, 135.3 (d, $J = 7.5$ Hz), 138.5, 140.4, 158.7 (d, $J = 236.6$ Hz), 178.4; HRMS (ESI) calcd for C₁₄H₁₀ClFNO₂ [M+H]⁺

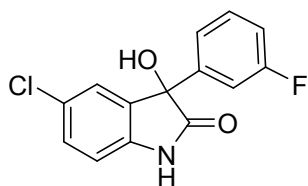
278.0384, found 278.0395.

4-(4-Chlorophenyl)-3-hydroxyindolin-2-one (3n)



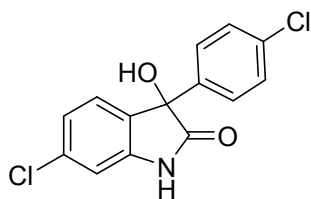
Isolated yield = 62%, 16.2 mg; yellow solid; m.p. 171.7-179.2 °C; ¹H NMR (DMSO-*d*₆, 600 MHz): δ = 6.74 (d, *J* = 3.6 Hz, 1 H), 6.91 (dd, *J*₁ = 1.8 Hz, *J*₂ = 7.8 Hz, 1 H), 6.97-6.99 (m, 1 H), 7.10 (d, *J* = 7.2 Hz, 1 H), 7.25-7.29 (m, 3 H), 7.38 (dd, *J*₁ = 1.2 Hz, *J*₂ = 8.4 Hz, 2 H), 10.45 (s, 1 H); ¹³C NMR (DMSO-*d*₆, 150 MHz): δ = 77.4, 110.5, 122.7, 125.2, 127.9, 128.6, 129.9, 132.6, 133.7, 141.0, 142.4, 178.5; HRMS (ESI) calcd for C₁₄H₁₁ClNO₂ [M+H]⁺ 260.0478, found 260.0483.

5-Chloro-3-(3-fluorophenyl)-3-hydroxyindolin-2-one (3o)



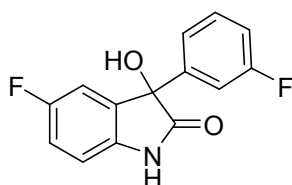
Isolated yield = 93%, 25.8 mg; yellow solid; m.p. 182.0-182.0 °C; ¹H NMR (DMSO-*d*₆, 400 MHz): δ = 6.89 (s, 1 H), 6.95 (d, *J* = 7.2 Hz, 2 H), 7.03 (d, *J* = 8.0 Hz, 1 H), 7.10-7.19 (m, 3 H), 7.32-7.37 (m, 1 H), 10.64 (s, 1 H); ¹³C NMR (DMSO-*d*₆, 100 MHz): δ = 77.0, 110.6, 112.9 (d, *J* = 22.8 Hz), 115.0 (d, *J* = 21.0 Hz), 121.8 (d, *J* = 2.5 Hz), 122.4, 126.8, 130.8 (d, *J* = 8.3 Hz), 132.4, 134.2, 144.0, 144.3 (d, *J* = 7.0 Hz), 162.6 (d, *J* = 242.2 Hz), 178.2; HRMS (ESI) calcd for C₁₄H₁₀ClFNO₂ [M+H]⁺ 278.0384, found 278.0391.

6-Chloro-3-(4-chlorophenyl)-3-hydroxyindolin-2-one (3p)



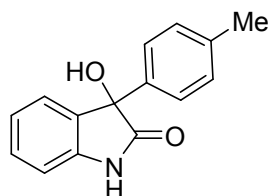
Isolated yield = 59%, 17.3 mg; yellow solid; m.p. 224.7-227.6 °C; ¹H NMR (DMSO-*d*₆, 600 MHz): δ = 6.84 (s, 1 H), 6.93 (d, *J* = 1.8 Hz, 1 H), 7.03 (dd, *J*₁ = 1.8 Hz, *J*₂ = 7.8 Hz, 1 H), 7.11 (d, *J* = 7.8 Hz, 1 H), 7.28 (d, *J* = 8.4 Hz, 2 H), 7.39 (d, *J* = 8.4 Hz, 2 H), 10.62 (s, 1 H); ¹³C NMR (DMSO-*d*₆, 150 MHz): δ = 77.0, 110.6, 122.4, 126.8, 127.9, 128.7, 132.5, 132.8, 134.1, 140.3, 144.0, 178.4; HRMS (ESI) calcd for C₁₄H₁₀Cl₂NO₂ [M+H]⁺ 294.0089, found 294.0093.

5-Fluoro-3-(3-fluorophenyl)-3-hydroxyindolin-2-one (3q)



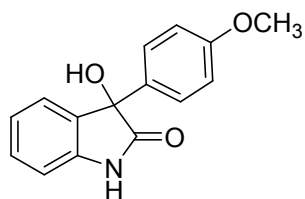
Isolated yield = 74%, 19.2 mg; black solid; m.p. 188.6-202.8 °C; ¹H NMR (DMSO-*d*₆, 600 MHz): δ = 6.90-6.92 (m, 2 H), 6.95 (d, *J* = 7.8 Hz, 1 H), 6.99-7.01 (m, 1 H), 7.09-7.14 (m, 2 H), 7.17-7.20 (m, 1 H), 7.33-7.37 (m, 1 H), 10.50 (s, 1 H). ¹³C NMR (DMSO-*d*₆, 150 MHz): δ = 77.7, 111.5 (d, *J* = 7.8 Hz), 112.8 (d, *J* = 11.1 Hz), 113.0 (d, *J* = 9.8 Hz), 115.0 (d, *J* = 20.7 Hz), 116.3 (d, *J* = 23.3 Hz), 121.8, 130.7, 135.2 (d, *J* = 7.5 Hz), 138.5, 144.3 (d, *J* = 6.8 Hz), 158.7 (d, *J* = 236.4 Hz), 162.6 (d, *J* = 242.0 Hz), 178.3; HRMS (ESI) calcd for C₁₄H₁₀F₂NO₂ [M+H]⁺ 262.0680, found 262.0691.

3-Hydroxy-3-(*p*-tolyl)indolin-2-one (3r)



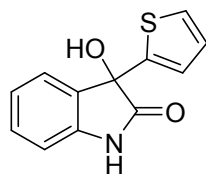
Known compound²; isolated yield = 75%, 18.0 mg; red solid; ¹H NMR (DMSO-*d*₆, 600 MHz): δ = 2.26 (s, 3 H), 6.54 (s, 1 H), 6.88 (d, *J* = 7.8 Hz, 1 H), 6.94-6.97 (m, 1 H), 7.07-7.11 (m, 3 H), 7.16 (d, *J* = 7.8 Hz, 2 H), 7.22-7.25 (m, 1 H), 10.35 (s, 1 H).

3-Hydroxy-3-(4-methoxyphenyl)indolin-2-one (3s)



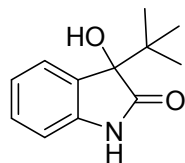
Isolated yield = 92%, 23.5 mg; gray solid; m.p. 180.0-182.0 °C; ¹H NMR (DMSO-*d*₆, 600 MHz): δ = 3.71 (s, 3 H), 6.51 (s, 1 H), 6.86-6.89 (m, 3 H), 6.95-6.98 (m, 1 H), 7.10 (d, *J* = 7.2 Hz, 1 H), 7.18 (d, *J* = 9.0 Hz, 2 H), 7.22-7.25 (m, 1 H), 10.33 (s, 1 H); ¹³C NMR (DMSO-*d*₆, 150 MHz): δ = 55.5, 77.3, 110.2, 113.9, 122.4, 125.2, 127.3, 129.6, 133.9, 134.2, 142.3, 159.1, 179.1; HRMS (ESI) calcd for C₁₅H₁₄NO₃ [M+H]⁺ 256.0794, found 256.0799.

3-Hydroxy-3-(thiophen-2-yl)indolin-2-one (3t)



Known compound²; isolated yield = 51%, 11.8 mg; yellow solid; ¹H NMR (DMSO-*d*₆, 600 MHz): δ = 6.56 (s, 1 H), 6.86-6.87 (m, 1 H), 6.97-7.02 (m, 2 H), 7.20 (dd, *J*₁ = 1.2 Hz, *J*₂ = 3.0 Hz, 1 H), 7.23-7.25 (m, 2 H), 7.46 (dd, *J*₁ = 3.0 Hz, *J*₂ = 4.8 Hz, 1 H), 10.36 (s, 1 H).

3-(*tert*-Butyl)-3-hydroxyindolin-2-one (3u)



Isolated yield = 60%, 11.4 mg; black solid; m.p. 198.6-200.7 °C; ¹H NMR (DMSO-*d*₆, 400 MHz): δ = 0.94 (s, 9 H), 5.65 (s, 1 H), 6.76 (d, *J* = 8.0 Hz, 1 H), 6.90-6.94 (m, 1 H), 7.16-7.19 (m, 1 H), 7.24 (d, *J* = 7.6 Hz, 1 H), 10.10 (s, 1 H); ¹³C NMR (DMSO-*d*₆, 150 MHz): δ = 24.4, 37.2, 80.3, 109.5, 121.2, 126.1, 129.0, 132.0, 142.8, 178.0; HRMS (ESI) calcd for C₁₂H₁₆NO₂ [M+H]⁺ 206.1181, found 206.1187.

References:

1. (a) Zhang, X.; Sun, X.; Fan, H.; Lyu, C.; Li, P.; Zhang, H.; Rao, W. *RSC Adv.* **2016**, *6*, 56319; (b) Zhang, X.; Sun, X.; Fan, H.; Li, P.; Lyu, C.; Rao, W. *Eur. J. Org. Chem.* **2016**, *25*, 4265.
2. Toullec, P. Y.; Jagt, R. B. C.; Vries, J. D. *Org. Lett.* **2006**, *8*, 2715.
3. Pedro, J. R.; Barroso, S.; Blay, G.; Cardona, L.; Fernández, I.; García, B. *J. Org. Chem.* **2004**, *69*, 6821-6829.
4. Shao, L-X.; Xiao, Z-K.; Yin, H-Y. *Org. Lett.* **2013**, *15*, 1254-1257.
5. Patil, N. T.; Gade, A. B.; Bagle, P. N.; Shinde, P. S.; Bhardwaj, V.; Banerjee, S.; Chande, A. *Angew. Chem. Int. Ed.* **2018**, *57*, 5735-5739

Figure 1. ^1H and ^{13}C NMR Spectra of 3-Hydroxy-3-phenylindolin-2-one (**3a**)

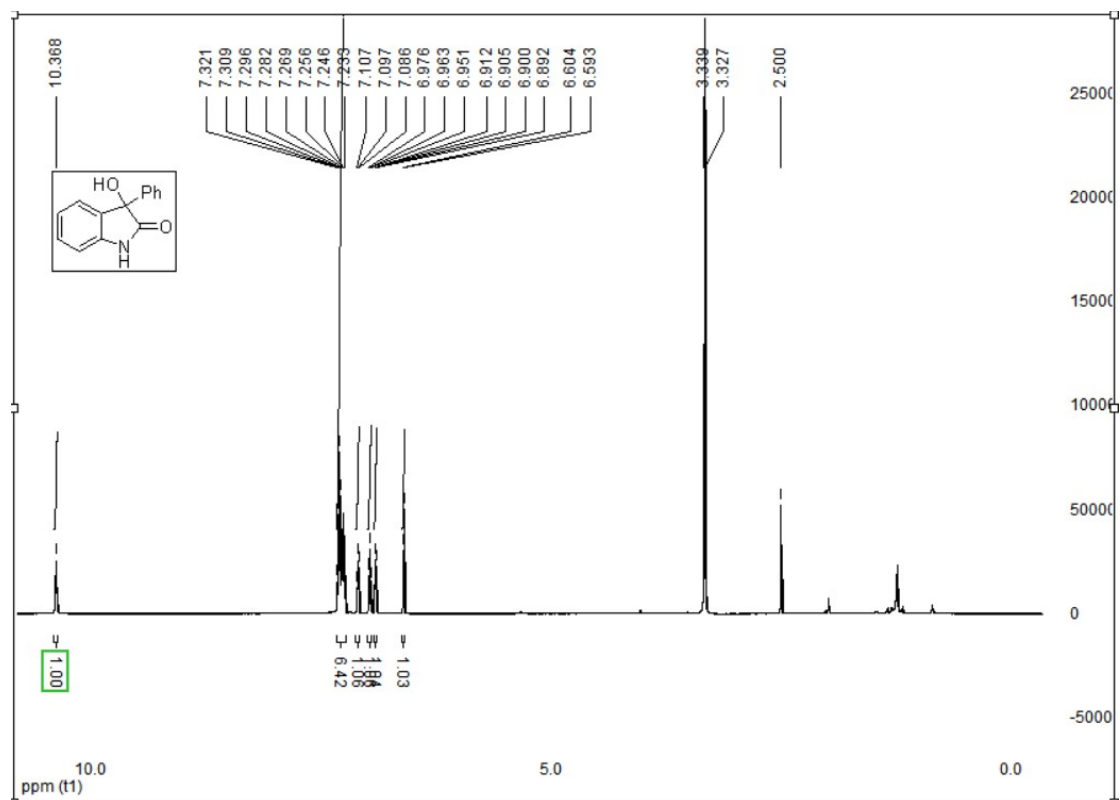


Figure 2. ^1H and ^{13}C NMR Spectra of 3-Hydroxy-3-phenyl-6-(trifluoromethyl)indolin-2-one (**3b**)

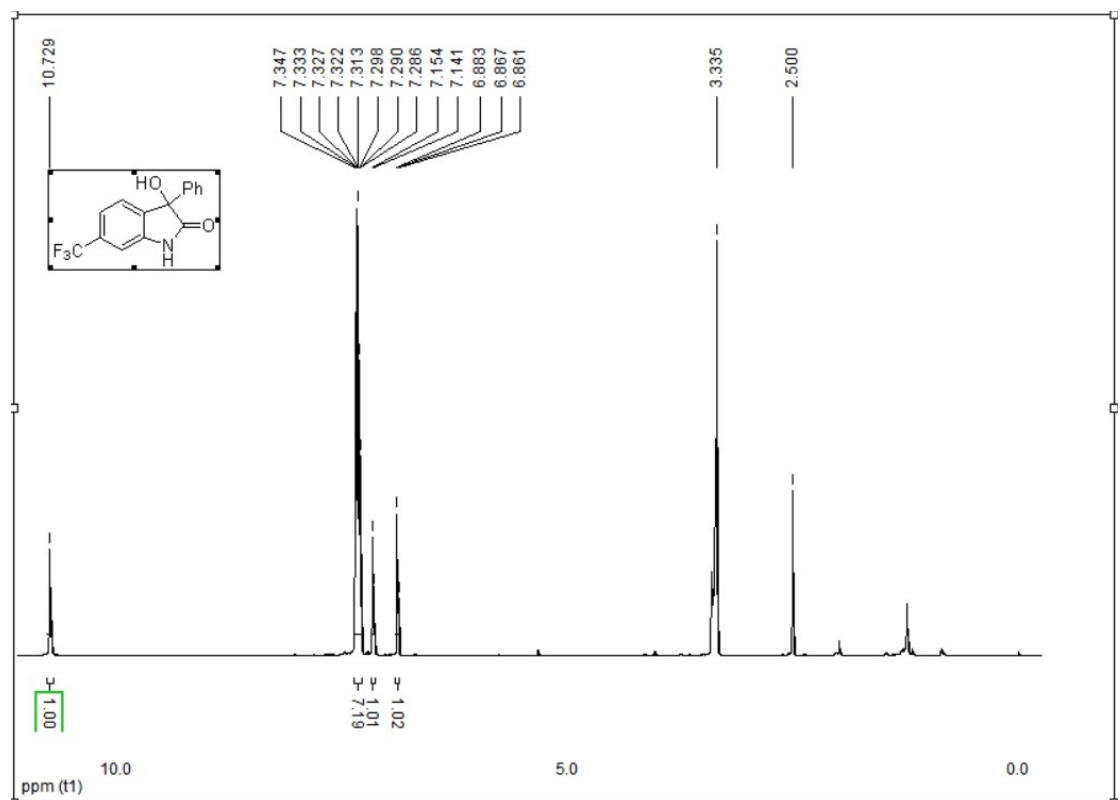


Figure 3. ^1H and ^{13}C NMR Spectra of 3-Hydroxy-3-phenyl-5-(trifluoromethyl)indolin-2-one (**3c**)

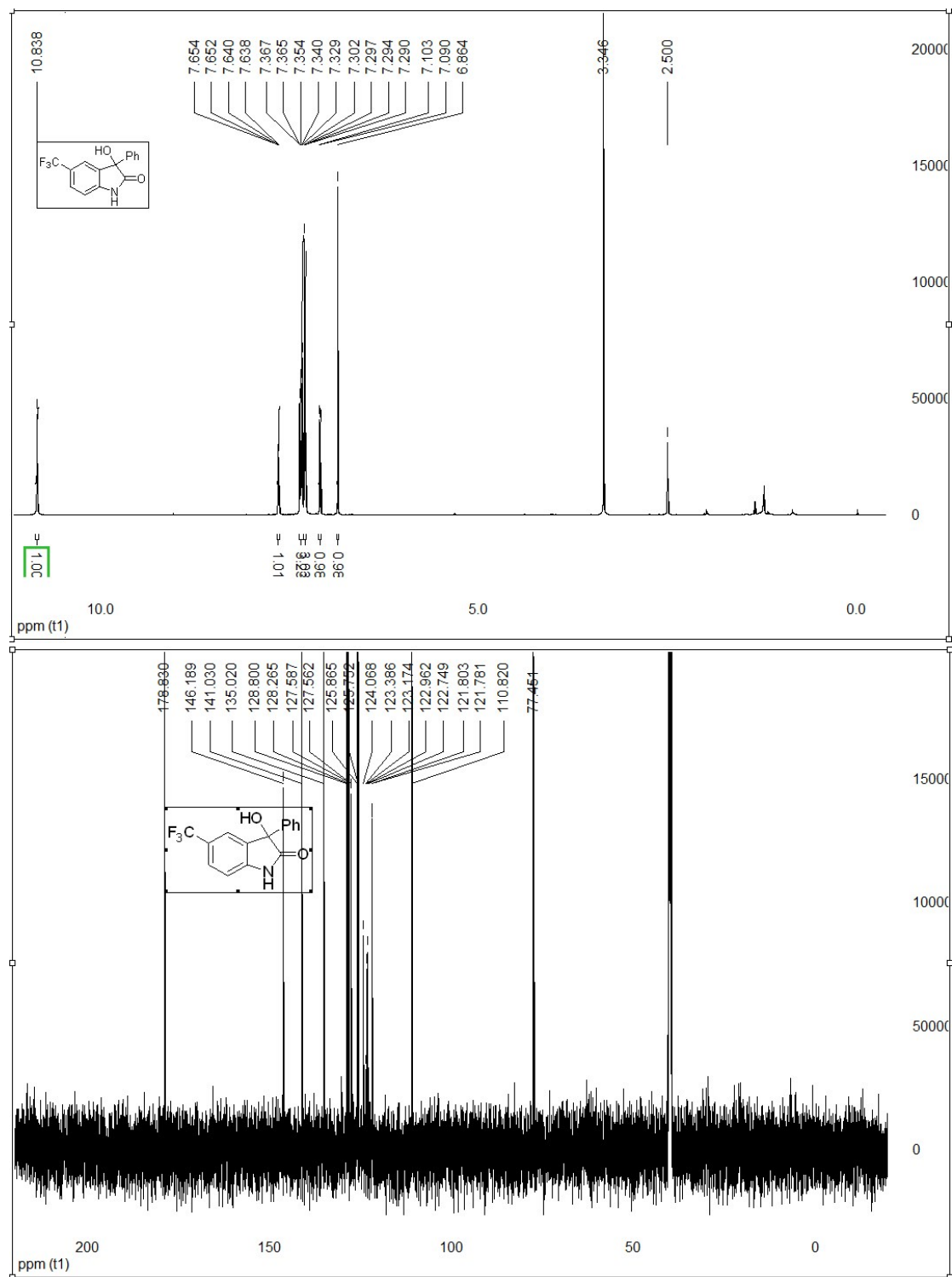


Figure 4. ¹H and ¹³C NMR Spectra of 5-Chloro-3-hydroxy-3-phenylindolin-2-one (**3d**)

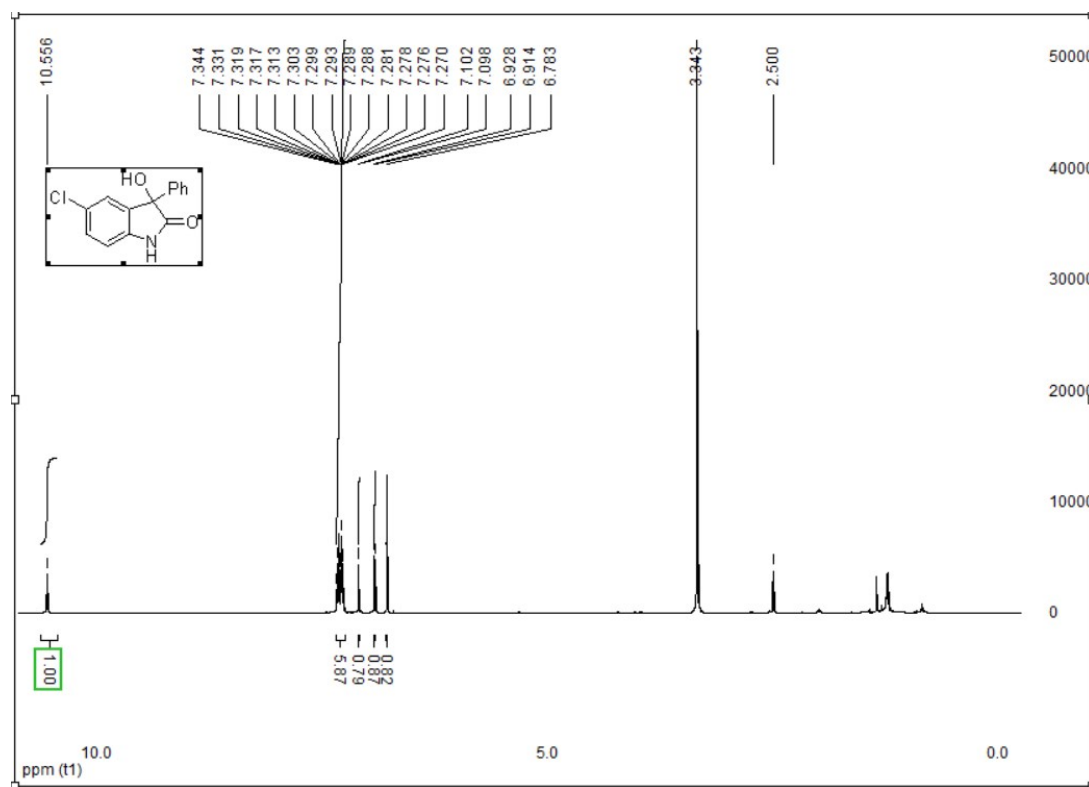
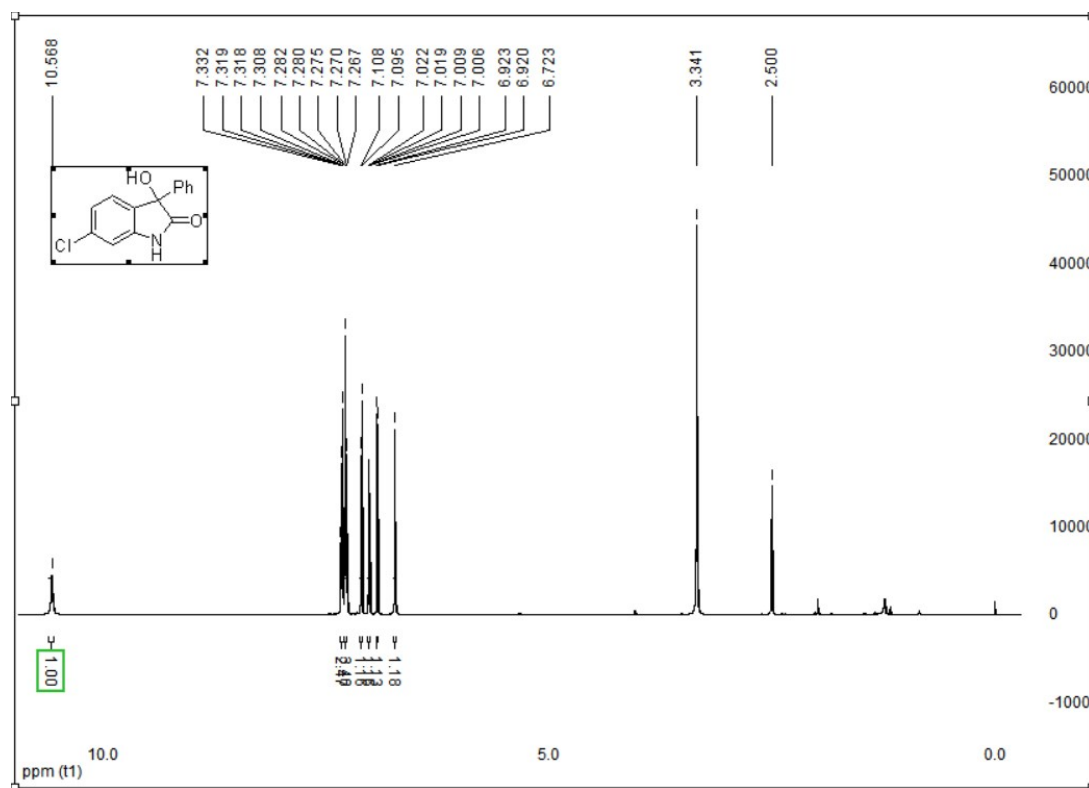


Figure 5. ¹H and ¹³C NMR Spectra of 6-Chloro-3-hydroxy-3-phenylindolin-2-one (**3e**)



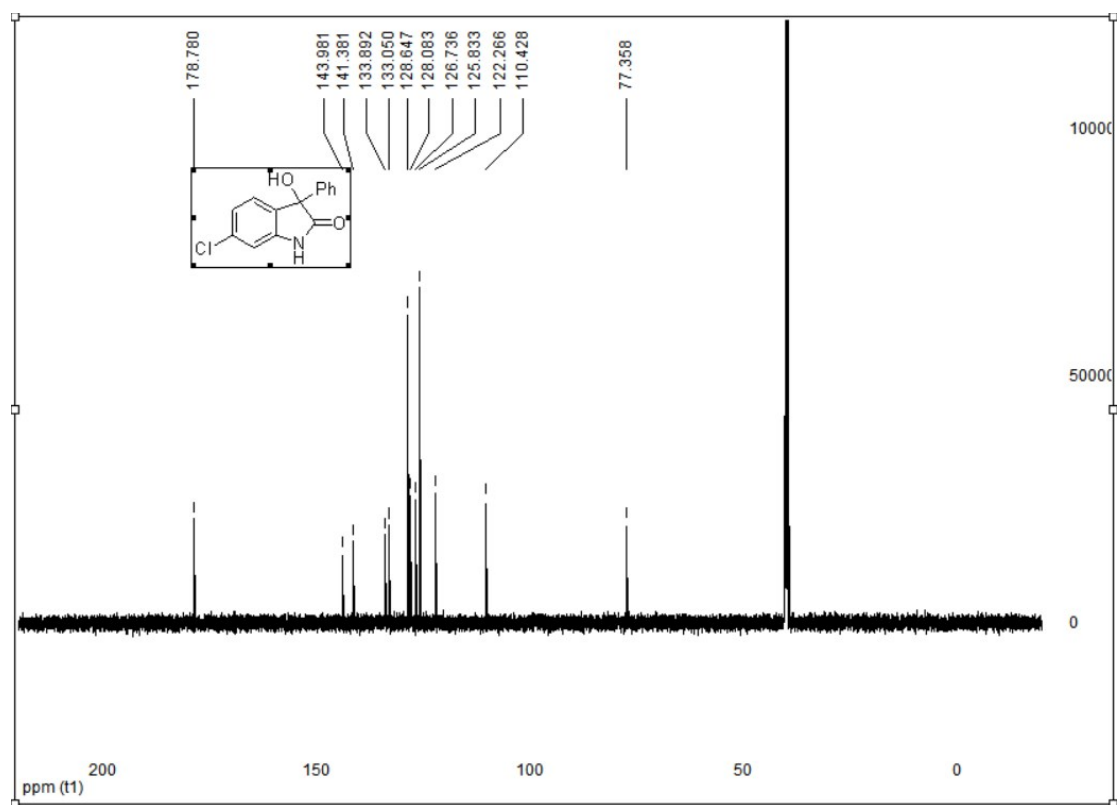
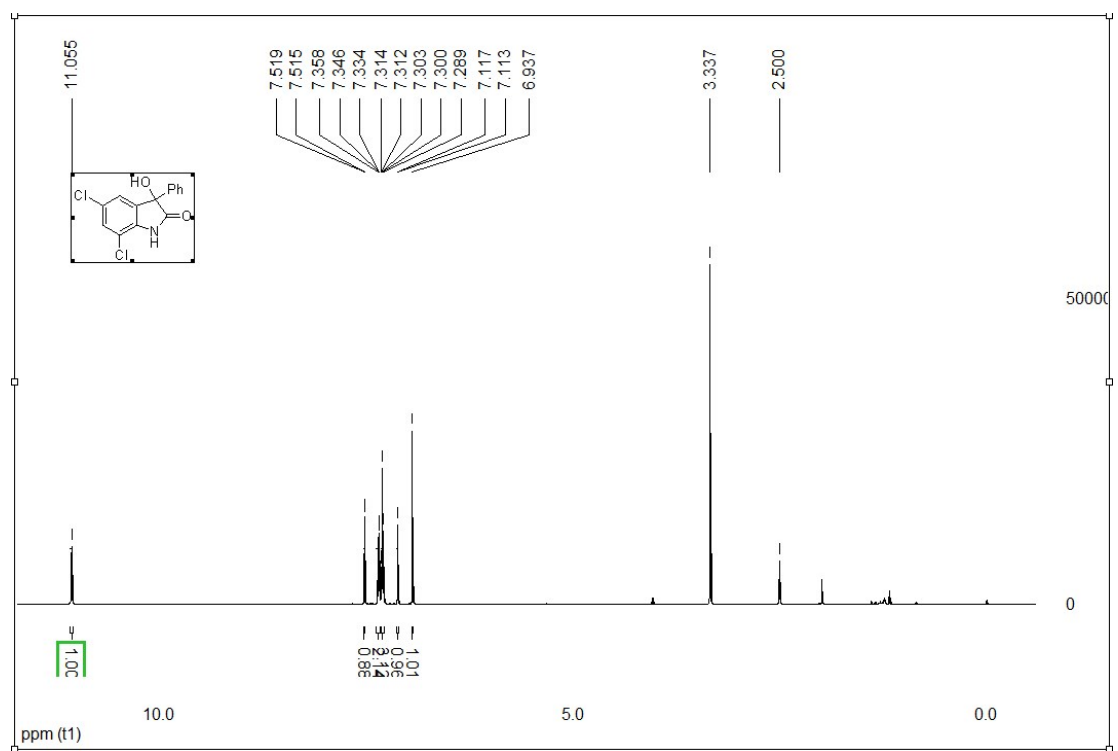


Figure 6. ^1H and ^{13}C NMR Spectra of 5,7-Dichloro-3-hydroxy-3-phenylindolin-2-one (3f)



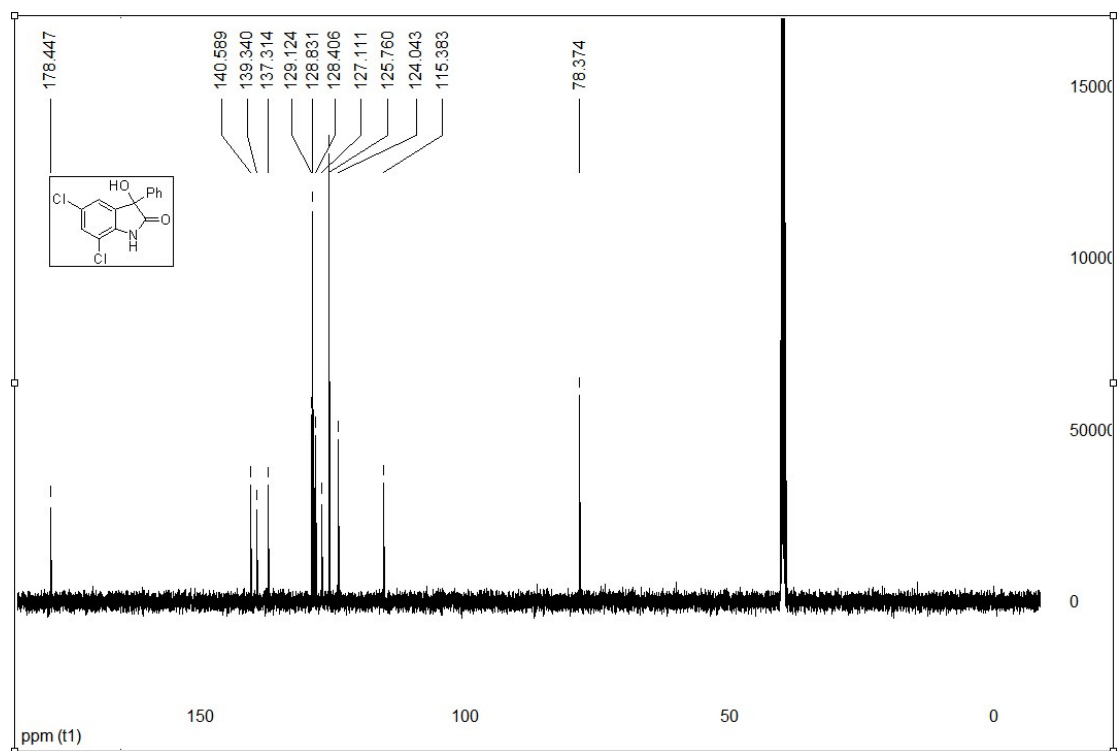


Figure 7. ¹H and ¹³C NMR Spectra of 5-Fluoro-3-hydroxy-3-phenylindolin-2-one (**3g**)

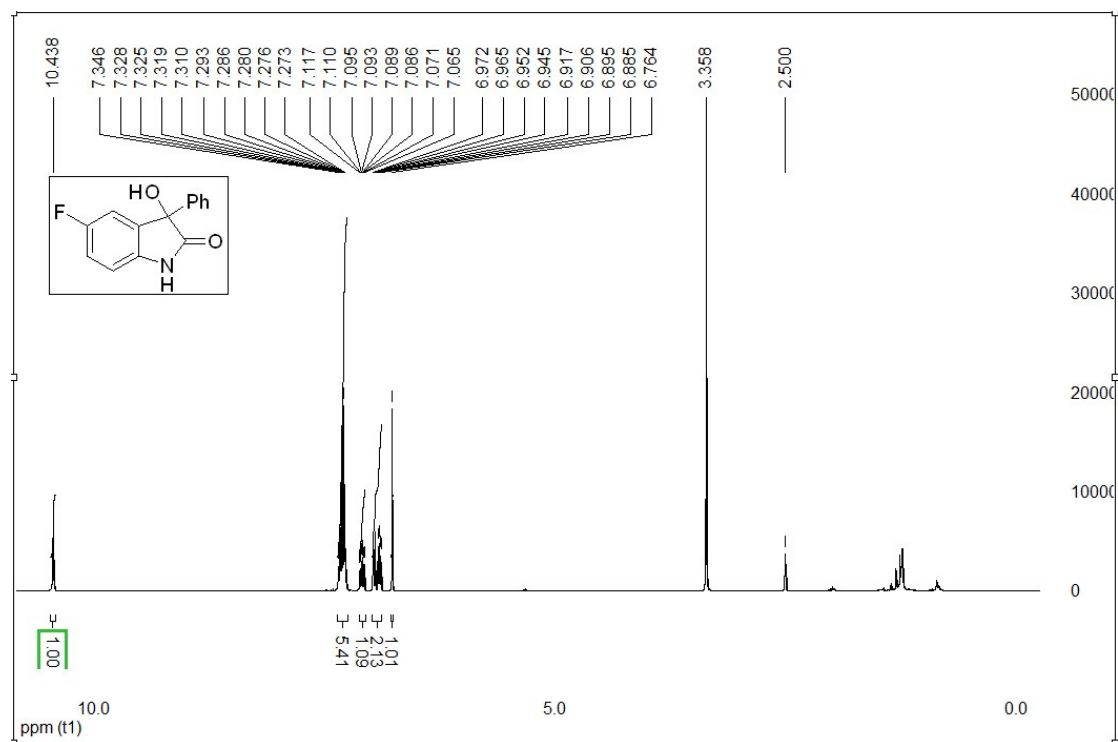


Figure 8. ¹H and ¹³C NMR Spectra of 5,7-Difluoro-3-hydroxy-3-phenylindolin-2-one

(3h)

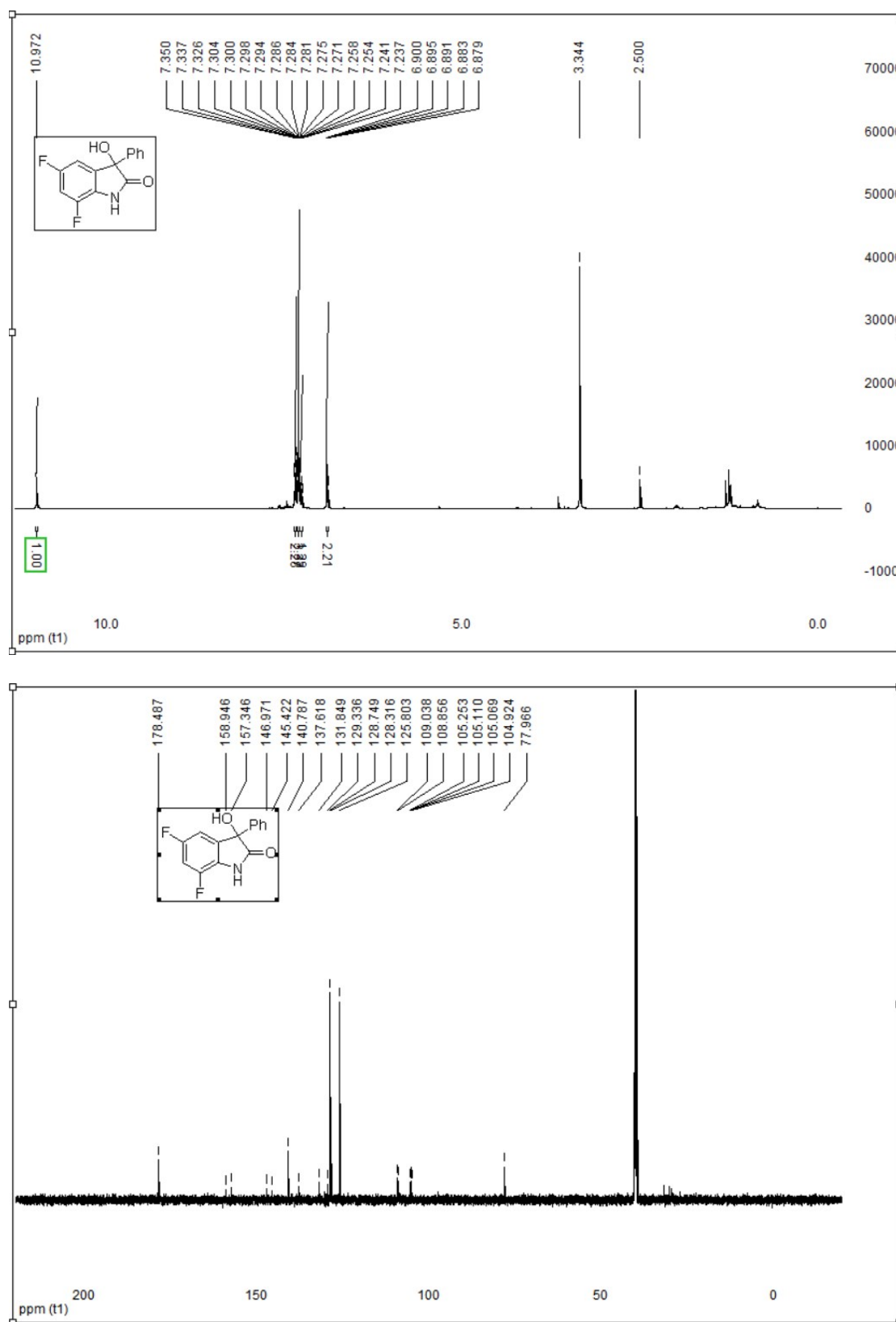


Figure 9. ¹H and ¹³C NMR Spectra of Methyl 3-hydroxy-2-oxo-3-phenylindoline-5-

carboxylate (**3i**)

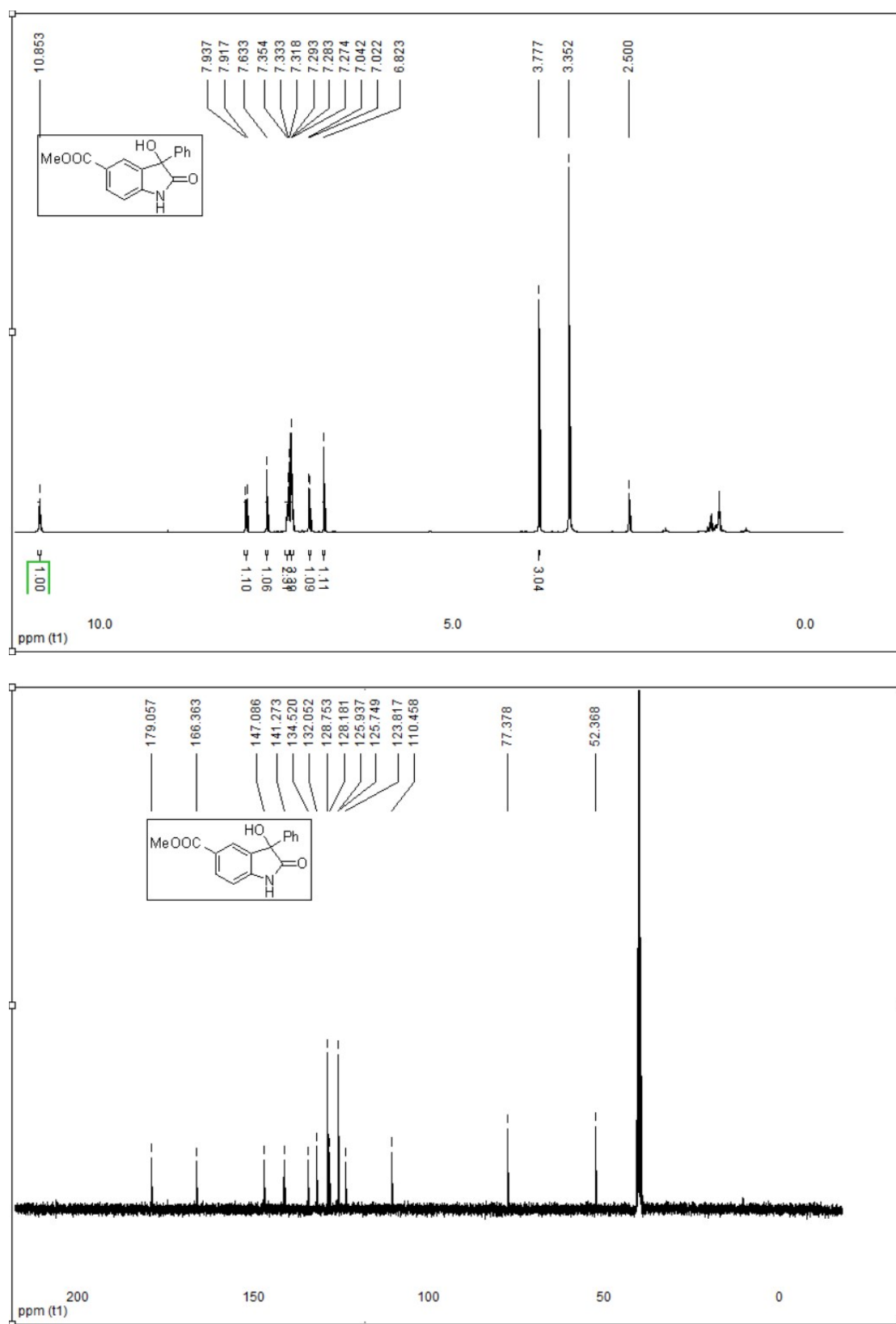


Figure 10. ¹H and ¹³C NMR Spectra of 3-Hydroxy-5-methyl-3-phenylindolin-2-one

(3j)

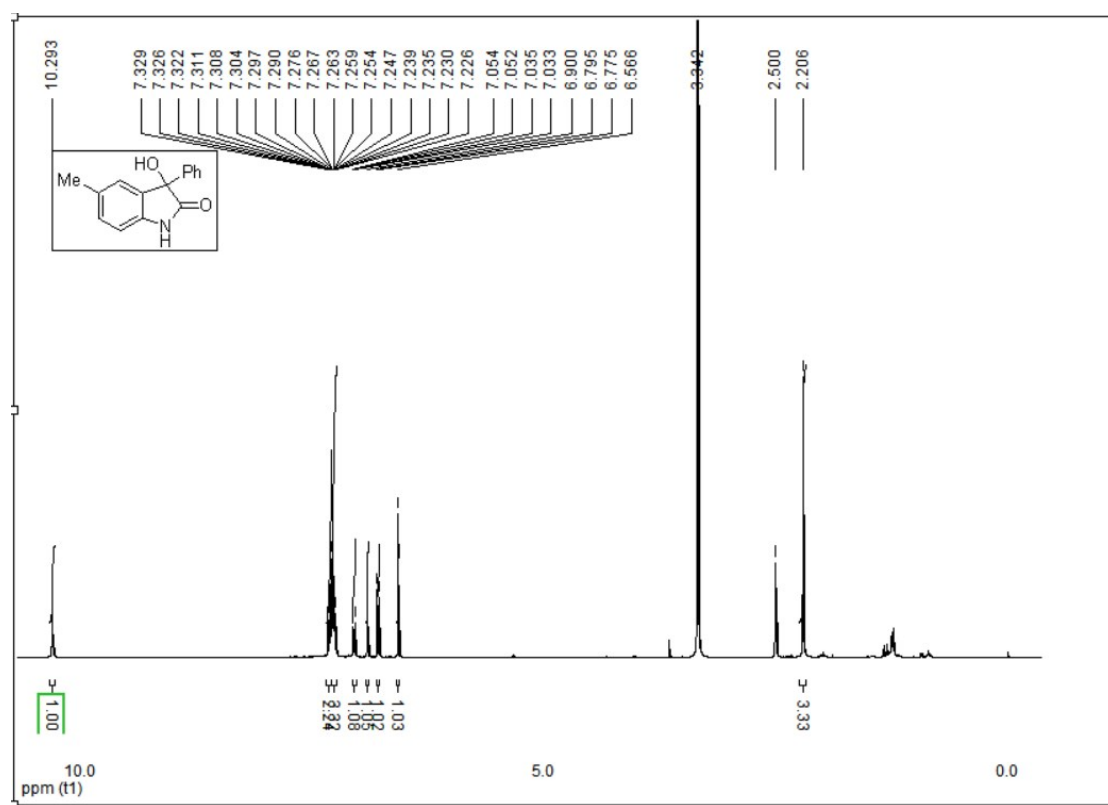


Figure 11. ¹H and ¹³C NMR Spectra of 3-Hydroxy-6-methyl-3-phenylindolin-2-one

(3k)

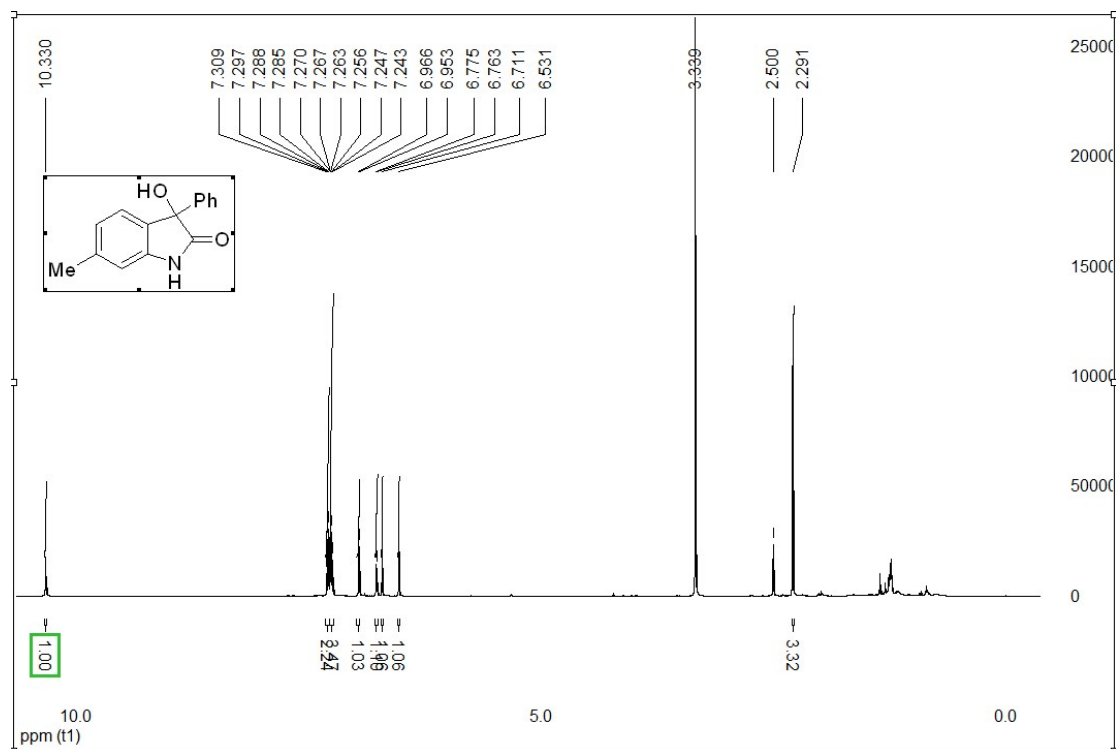


Figure 12. ¹H and ¹³C NMR Spectra of 3-Hydroxy-5,7-dimethyl-3-phenylindolin-2-

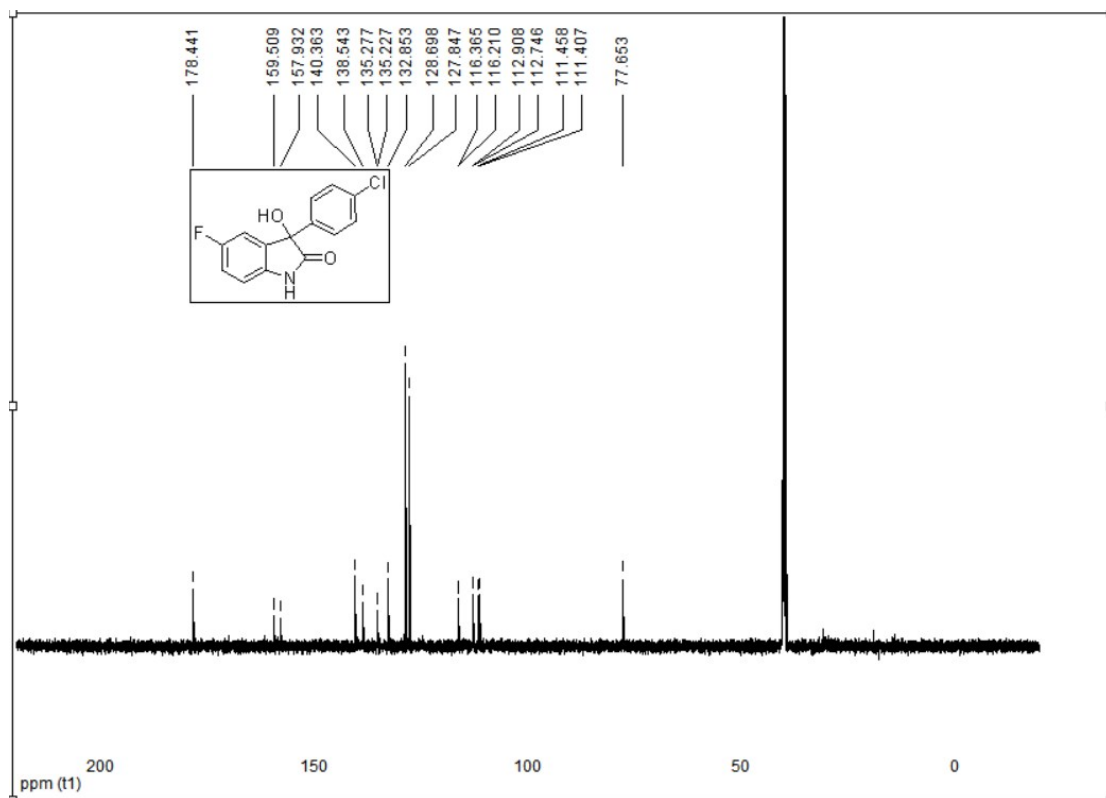
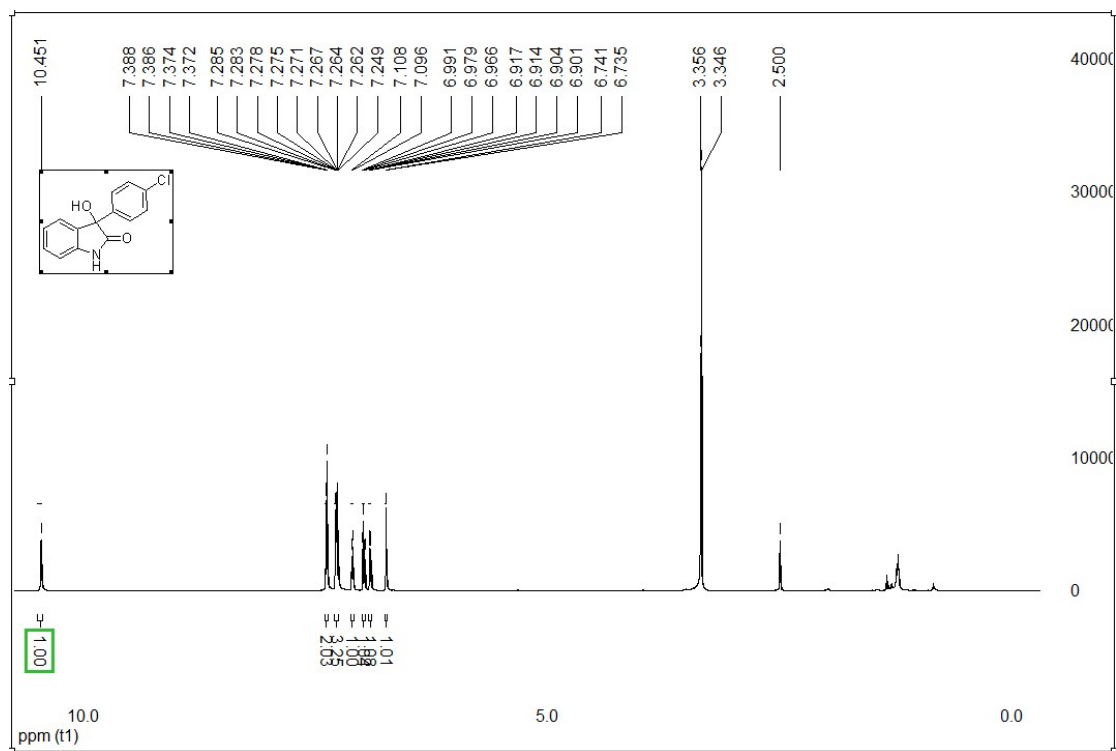


Figure 14. ¹H and ¹³C NMR Spectra of 3-(4-Chlorophenyl)-3-hydroxyindolin-2-one (3n)



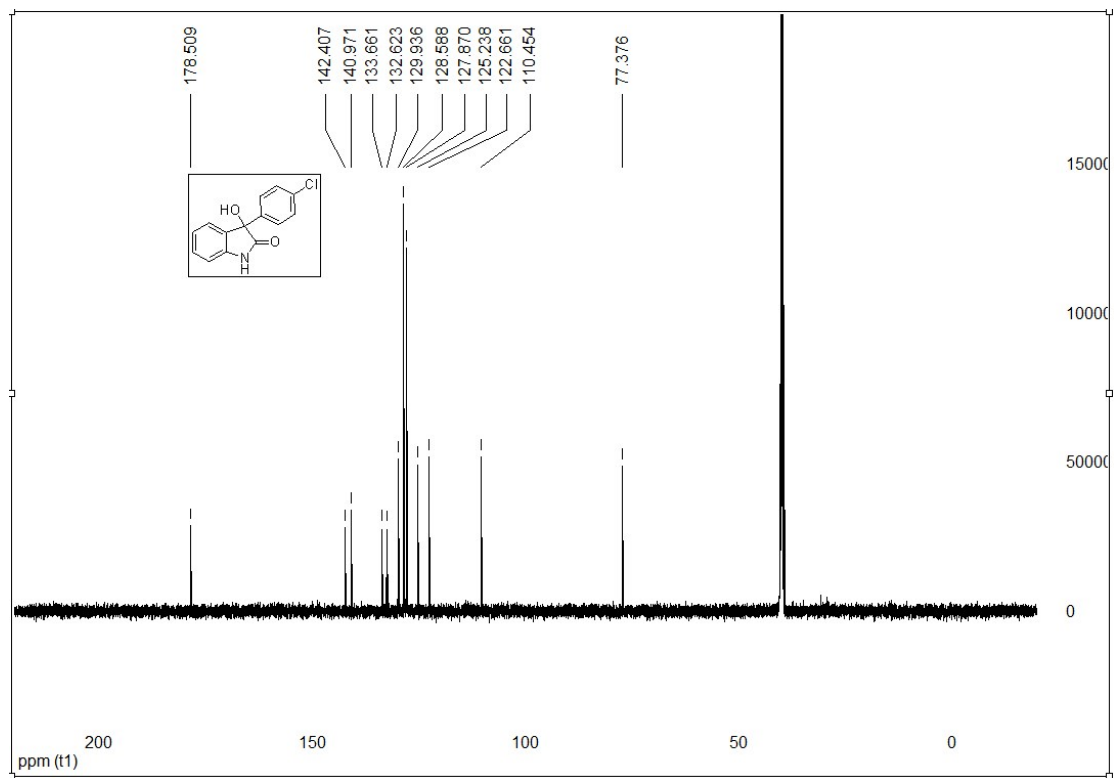
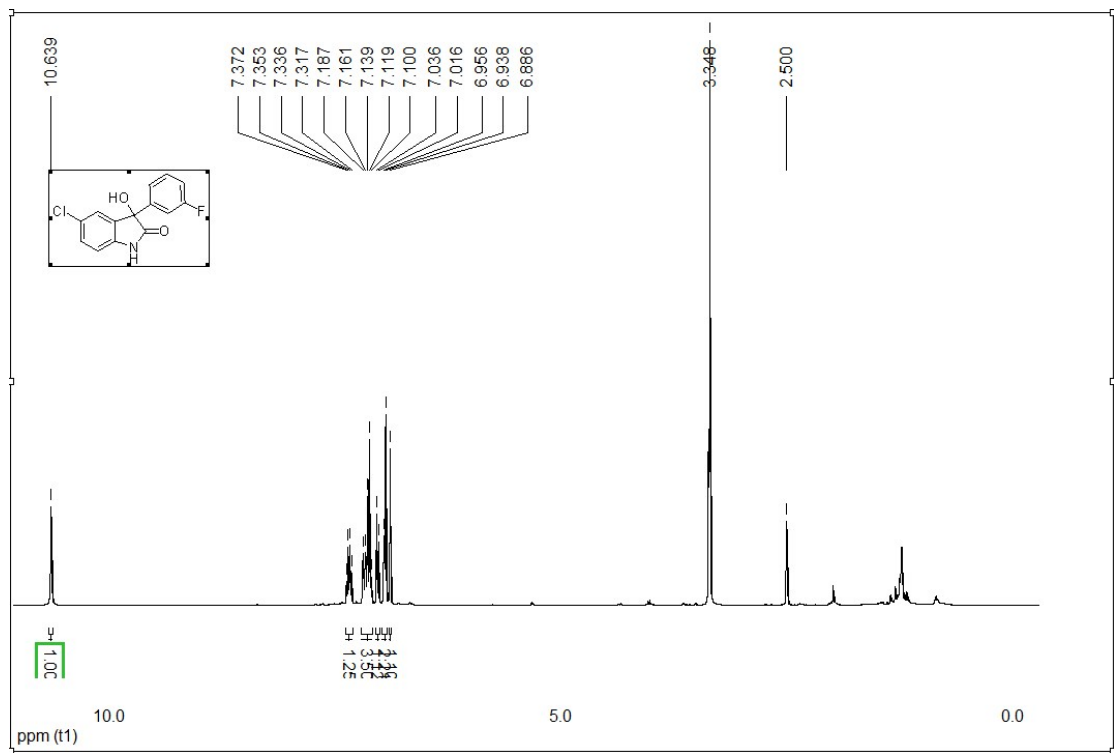


Figure 15. ^1H and ^{13}C NMR Spectra of 5-Chloro-3-(3-fluorophenyl)-3-hydroxyindolin-2-one (**3o**)



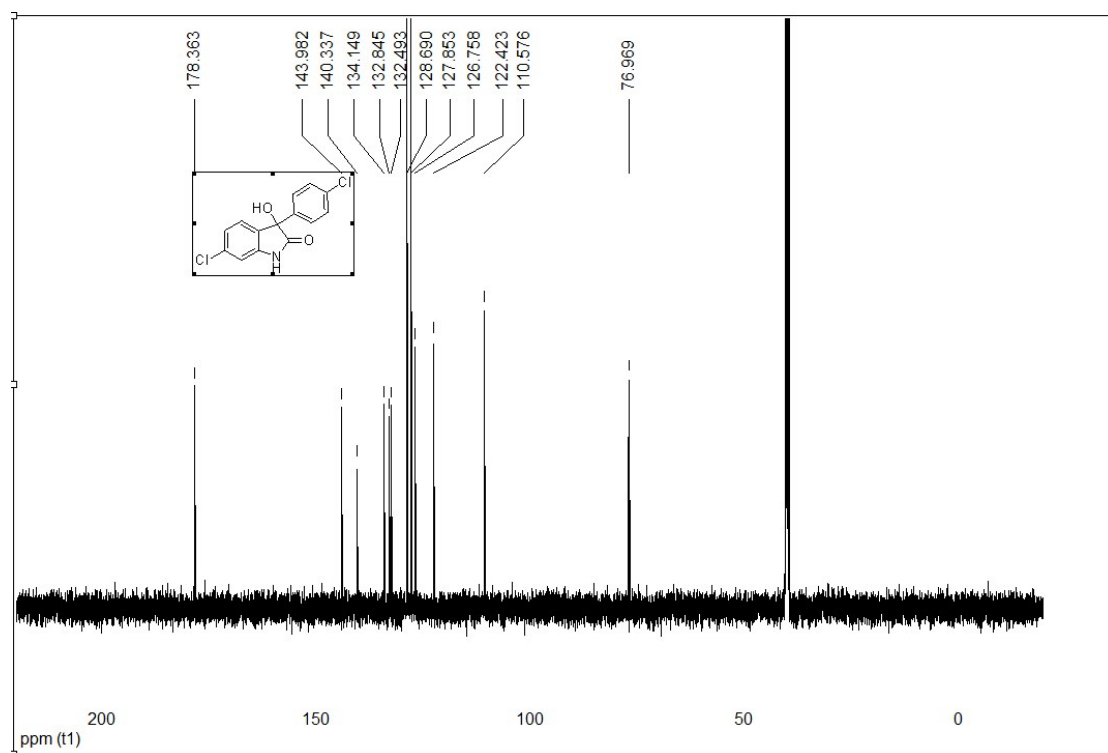
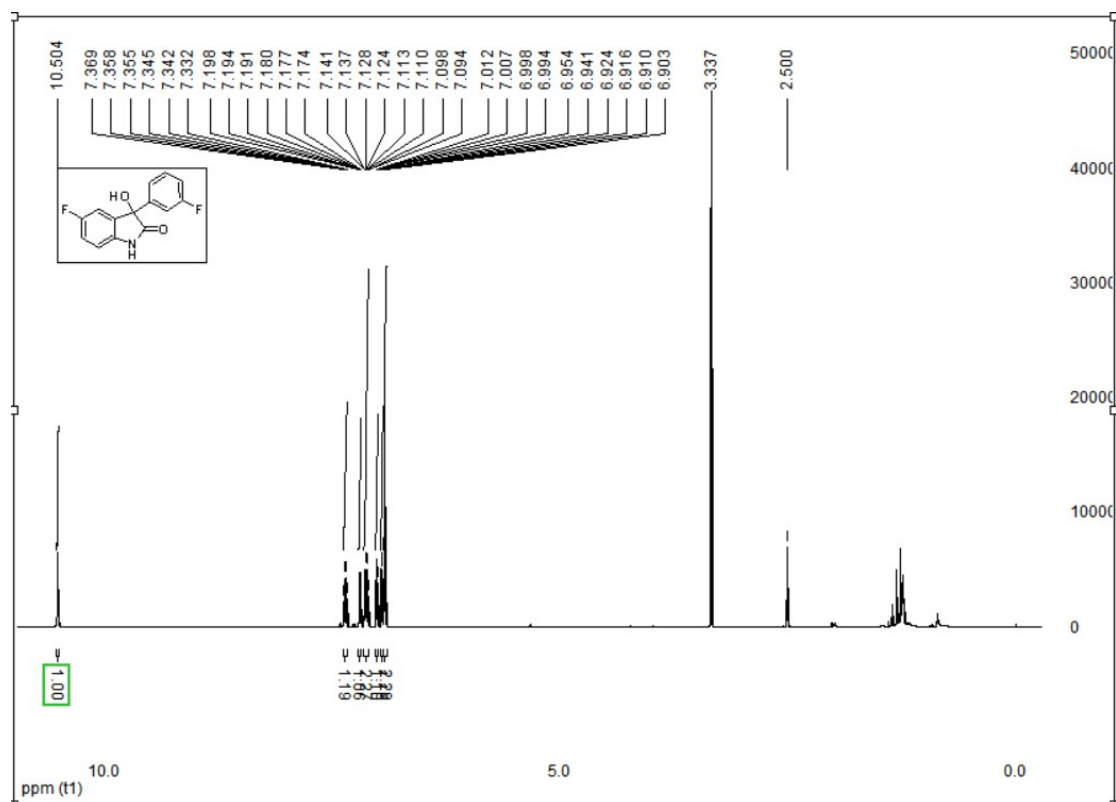


Figure 17. ¹H and ¹³C NMR Spectra of 5-Fluoro-3-(3-fluorophenyl)-3-hydroxyindolin-2-one (**3q**)



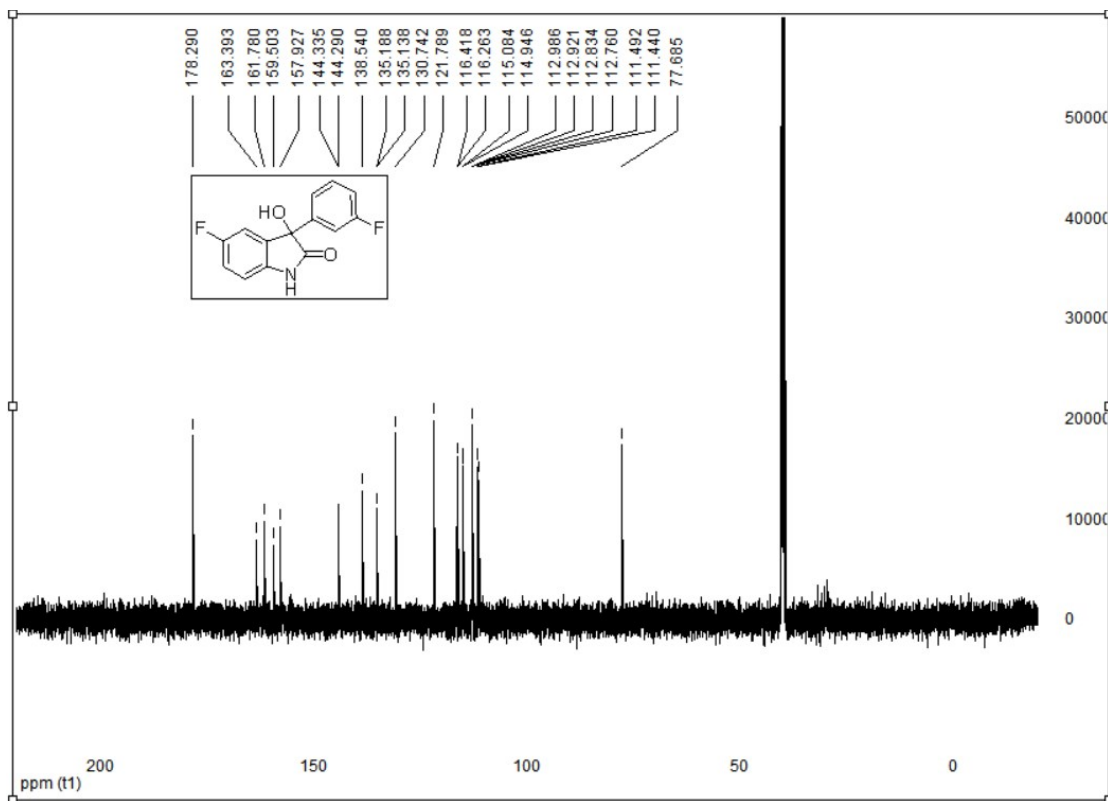
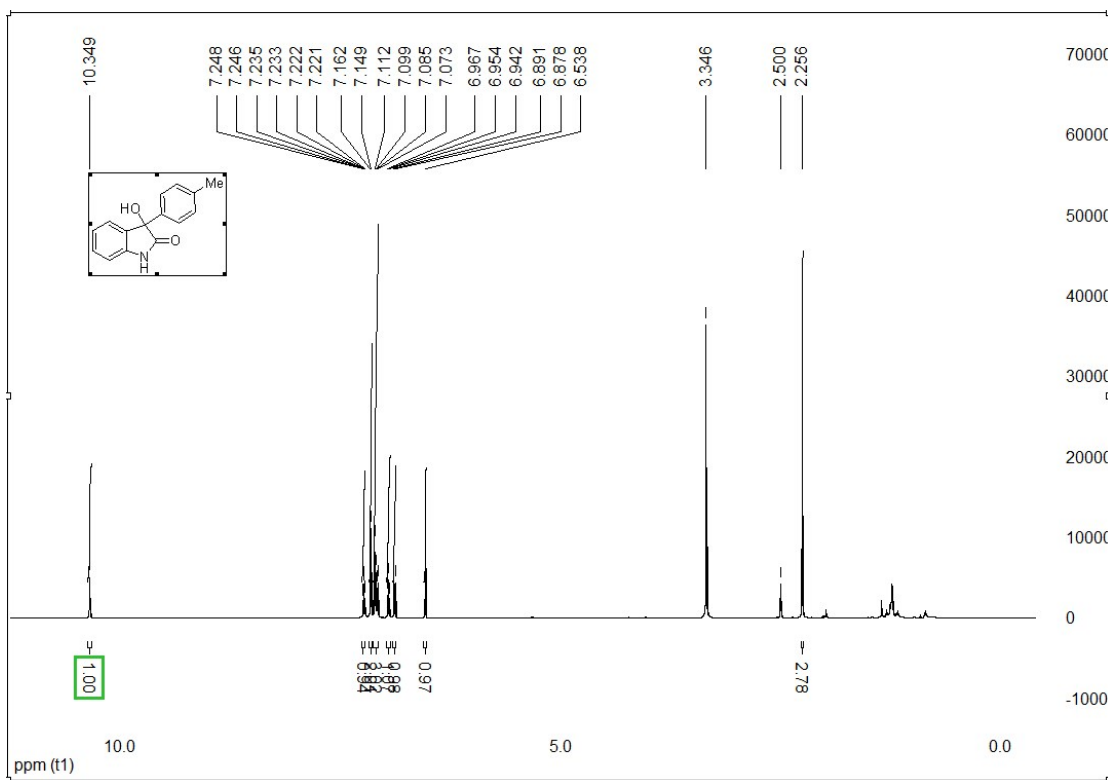


Figure 18. ^1H and ^{13}C NMR Spectra of 3-Hydroxy-3-(*p*-tolyl)indolin-2-one (**3r**)



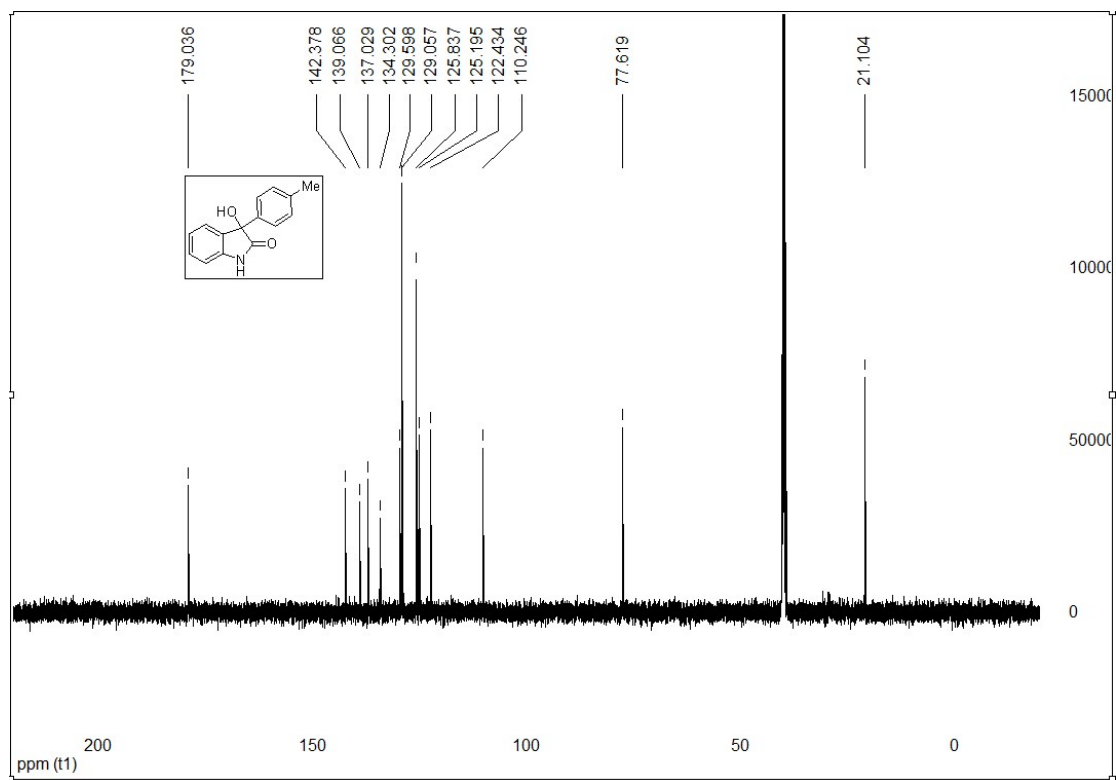
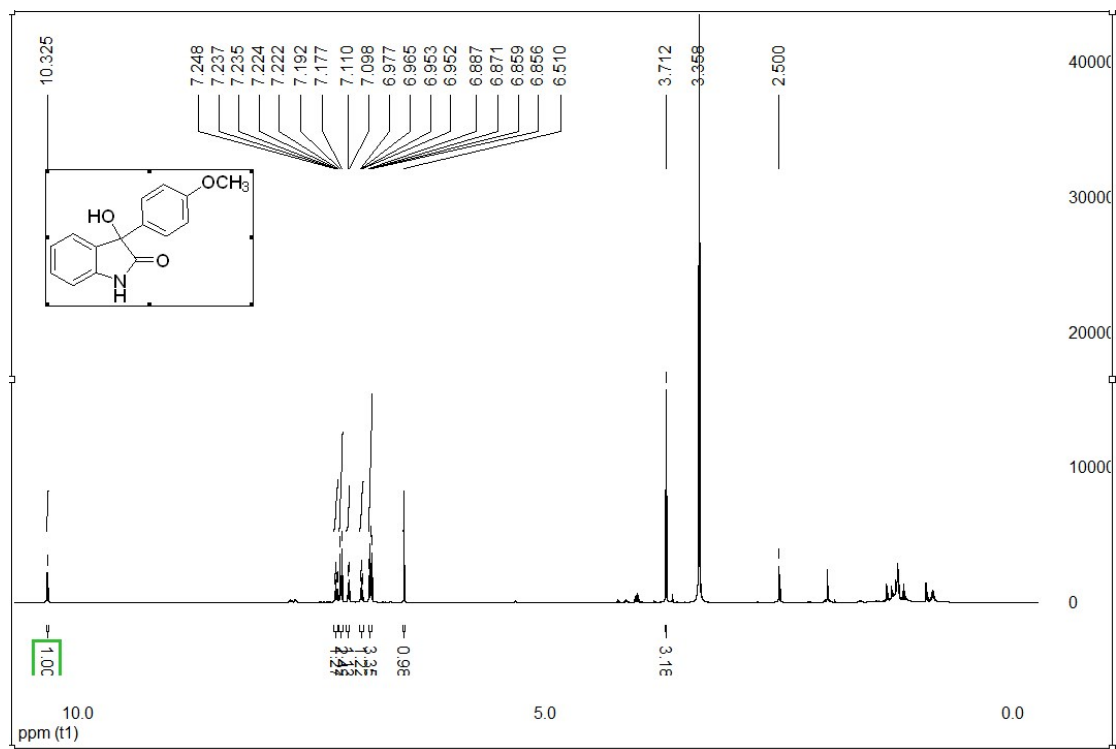


Figure 19. ^1H and ^{13}C NMR Spectra of 3-Hydroxy-3-(4-methoxyphenyl)indolin-2-one (**3s**)



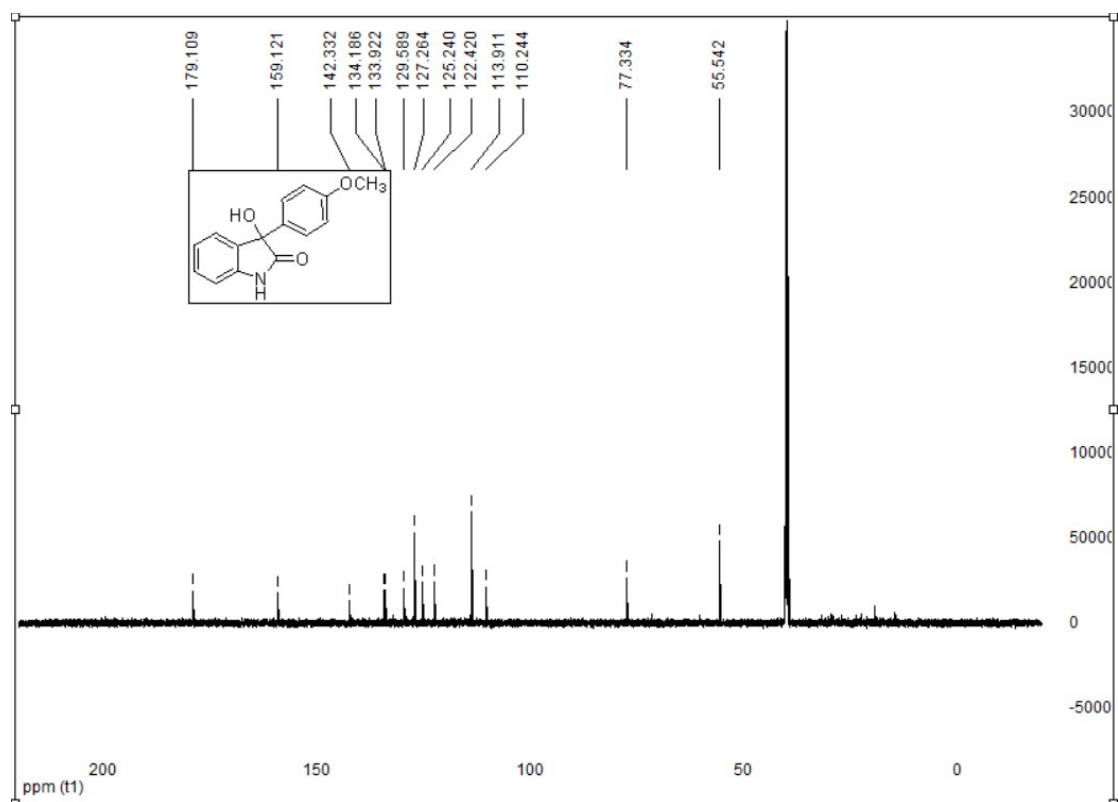


Figure 20. ¹H and ¹³C NMR Spectra of 3-Hydroxy-3-(thiophen-2-yl)indolin-2-one (**3t**)

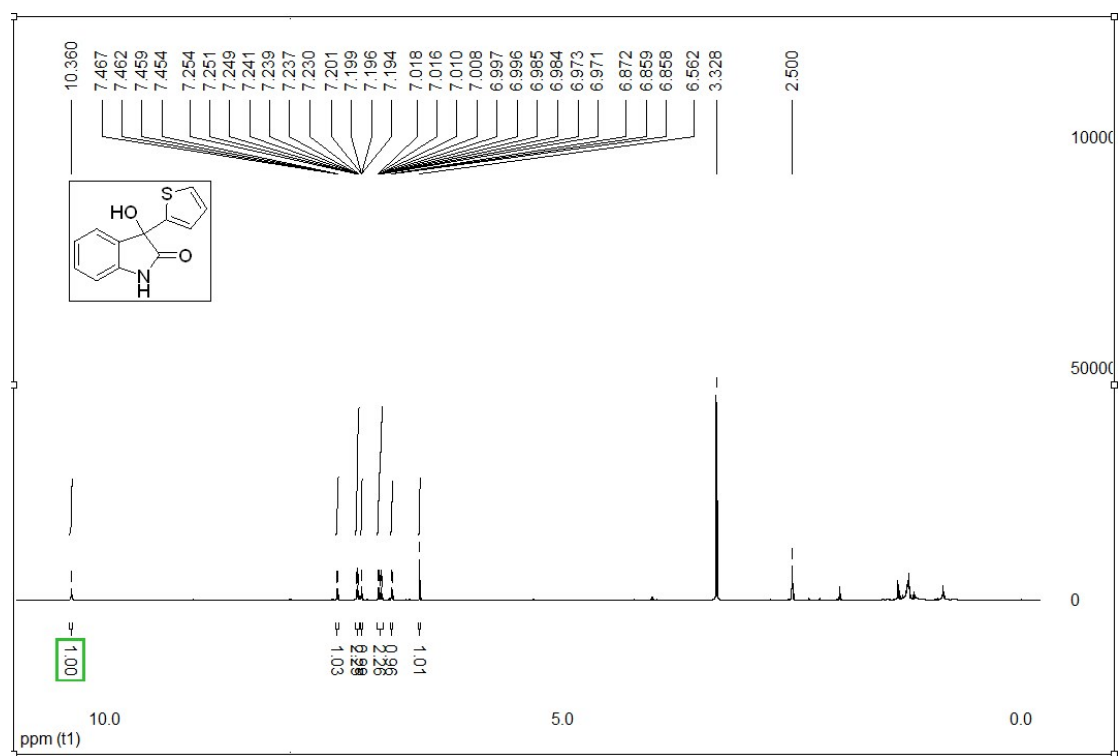


Figure 21. ¹H and ¹³C NMR Spectra of 3-(*tert*-Butyl)-3-hydroxyindolin-2-one (**3u**)

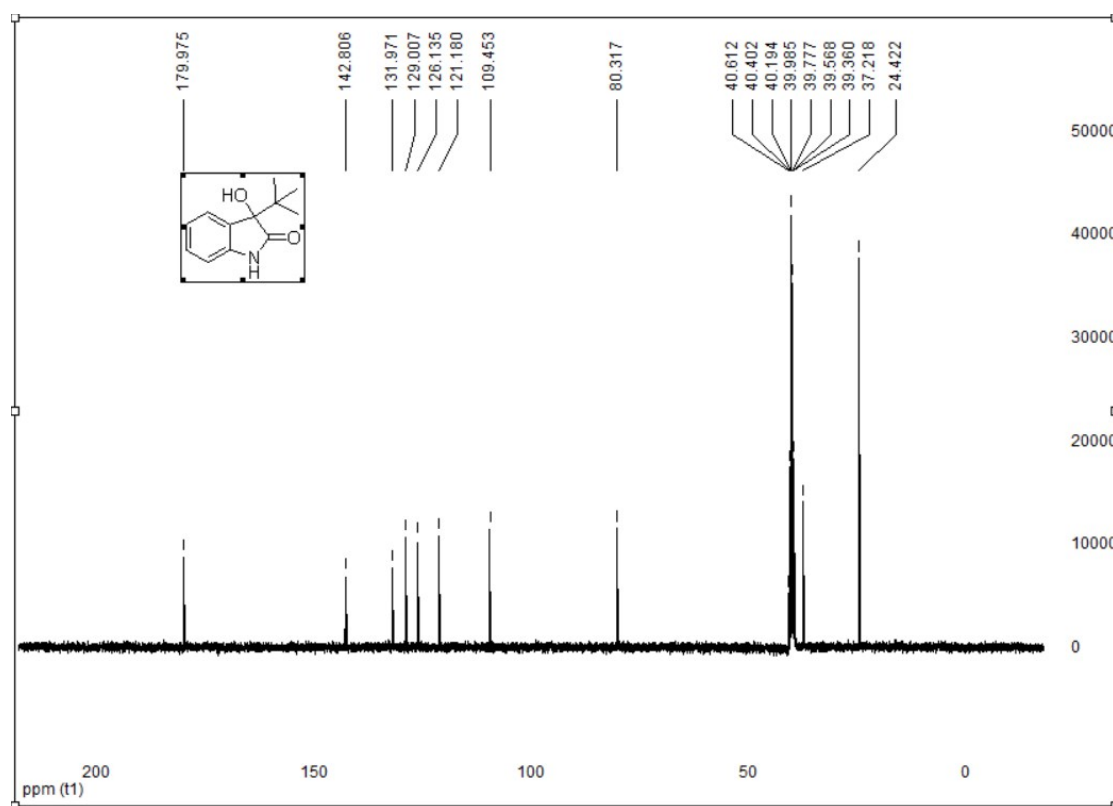
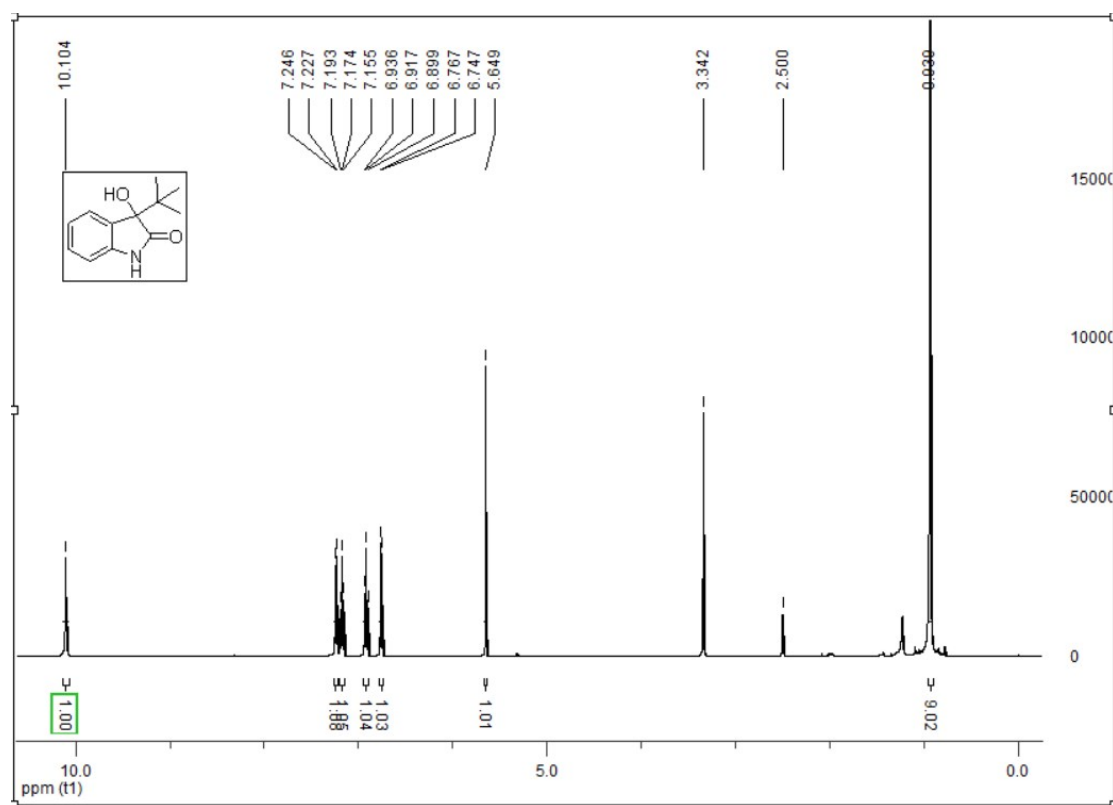


Figure 22. FTIR spectroscopy of O¹⁶-**3a** and O¹⁸-**3a**

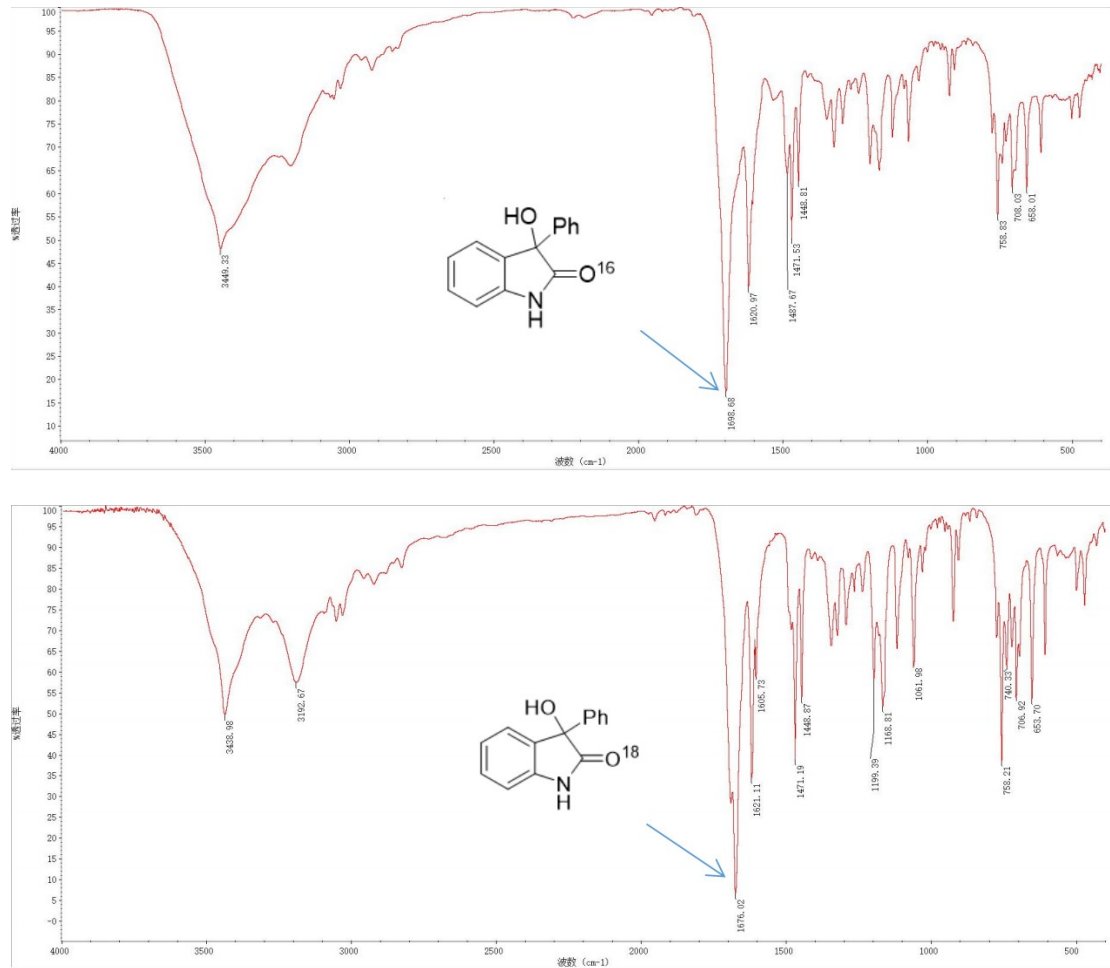


Figure 23. LCMS spectura of O¹⁸-3a ([M+H]: 228.0806)

