

Supplementary Information for

Switchable Chirality of Circularly Polarized Luminescence in Dilute

Solution Based on the Solvent-dependent Helix Inversion of

Poly(quinoxaline-2,3-diyl)s

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1 NMR Spectra of New Compounds

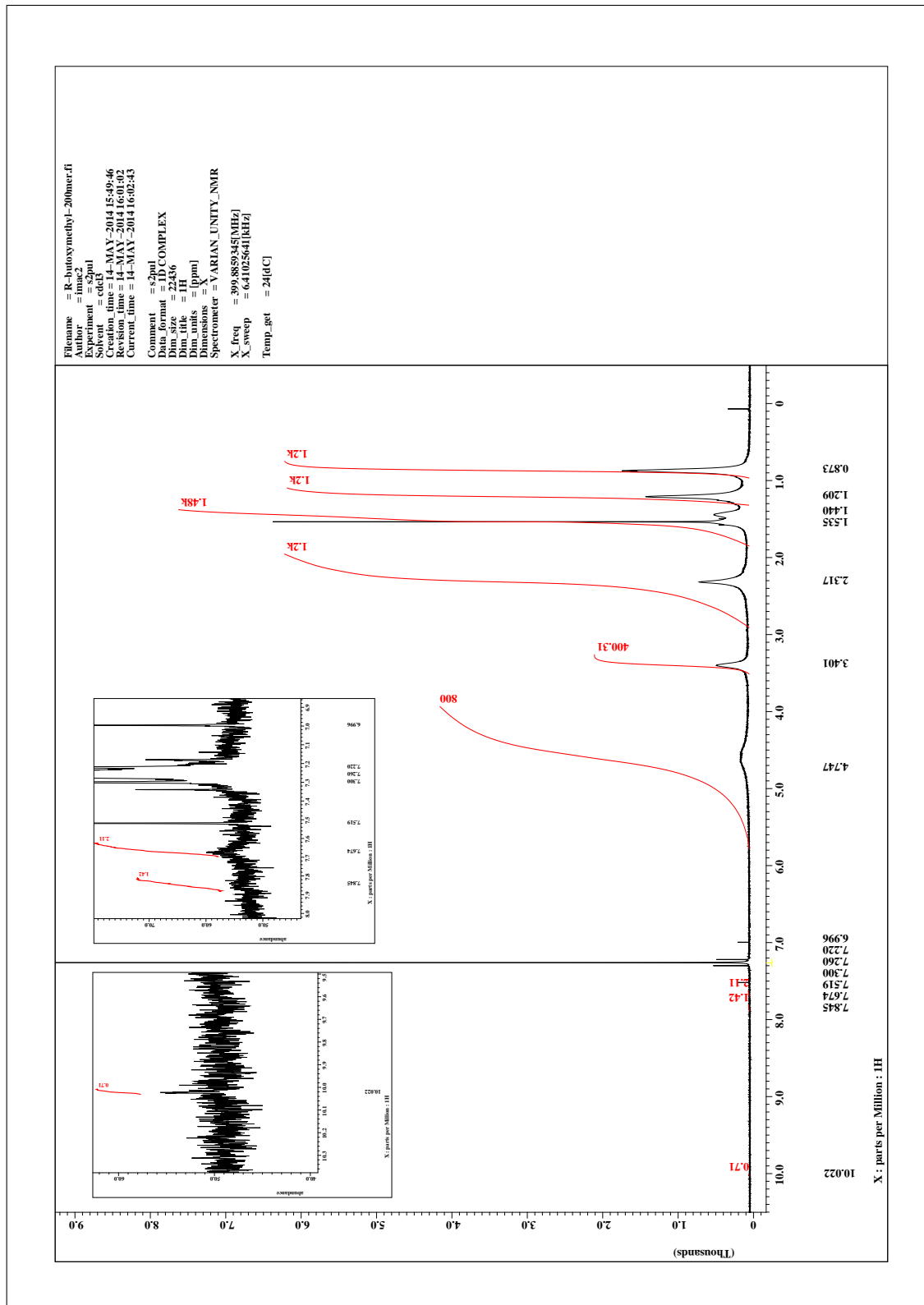


Figure S21. ^1H NMR spectrum of **1(200)** in CDCl_3 .

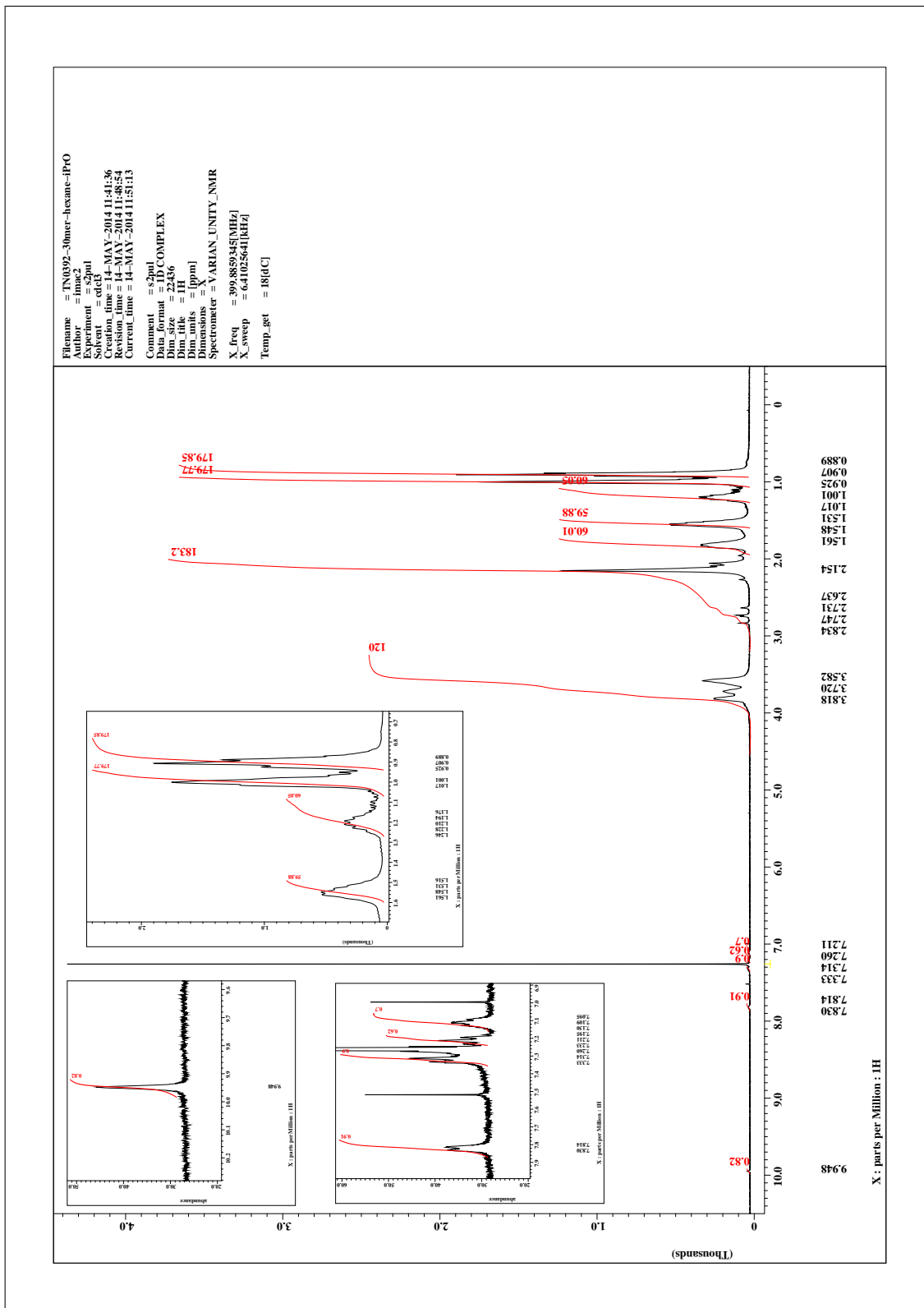


Figure S22. ^1H NMR spectrum of **3(30)** in CDCl_3 .

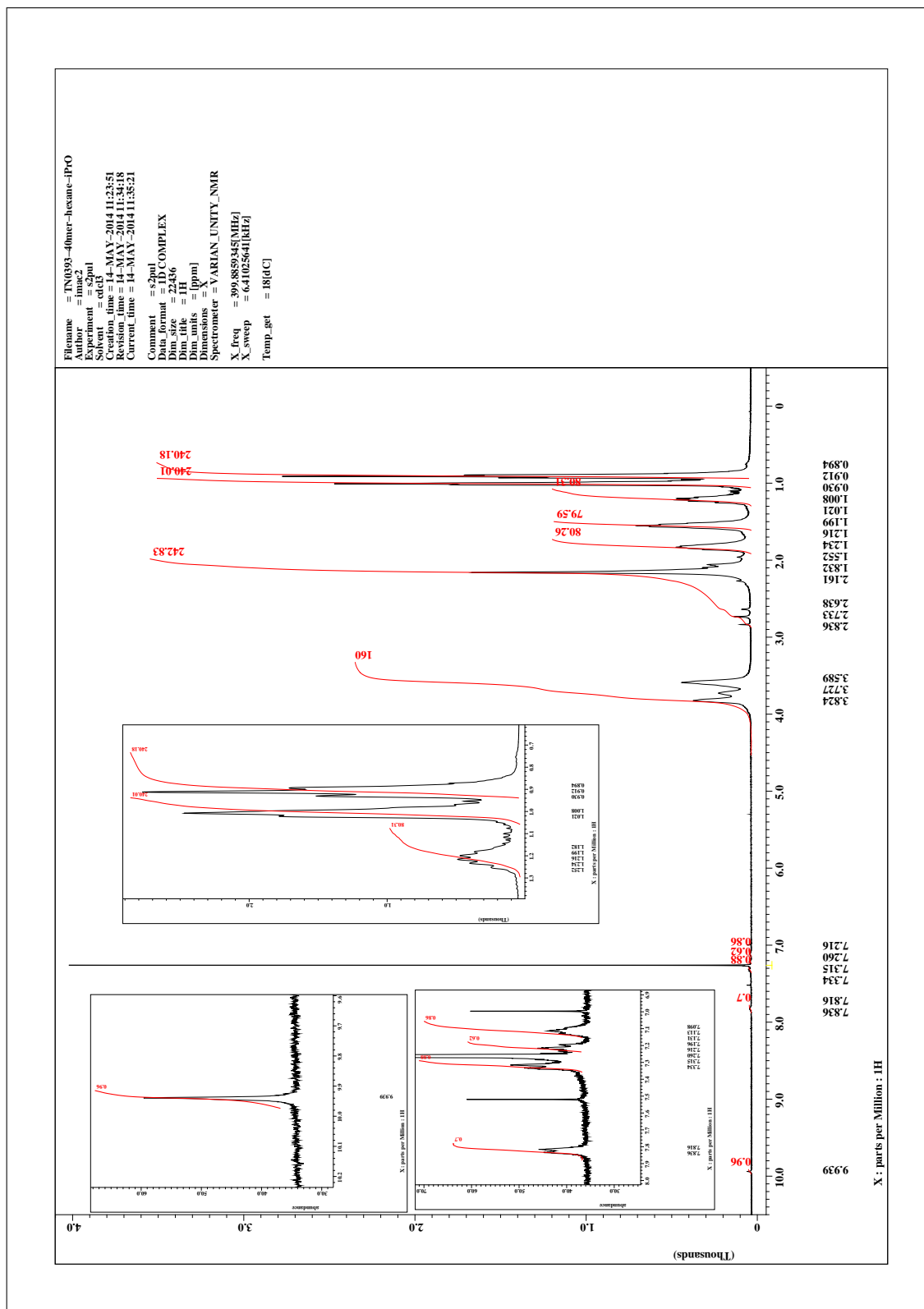


Figure S23. ^1H NMR spectrum of **3(40)** in CDCl_3 .

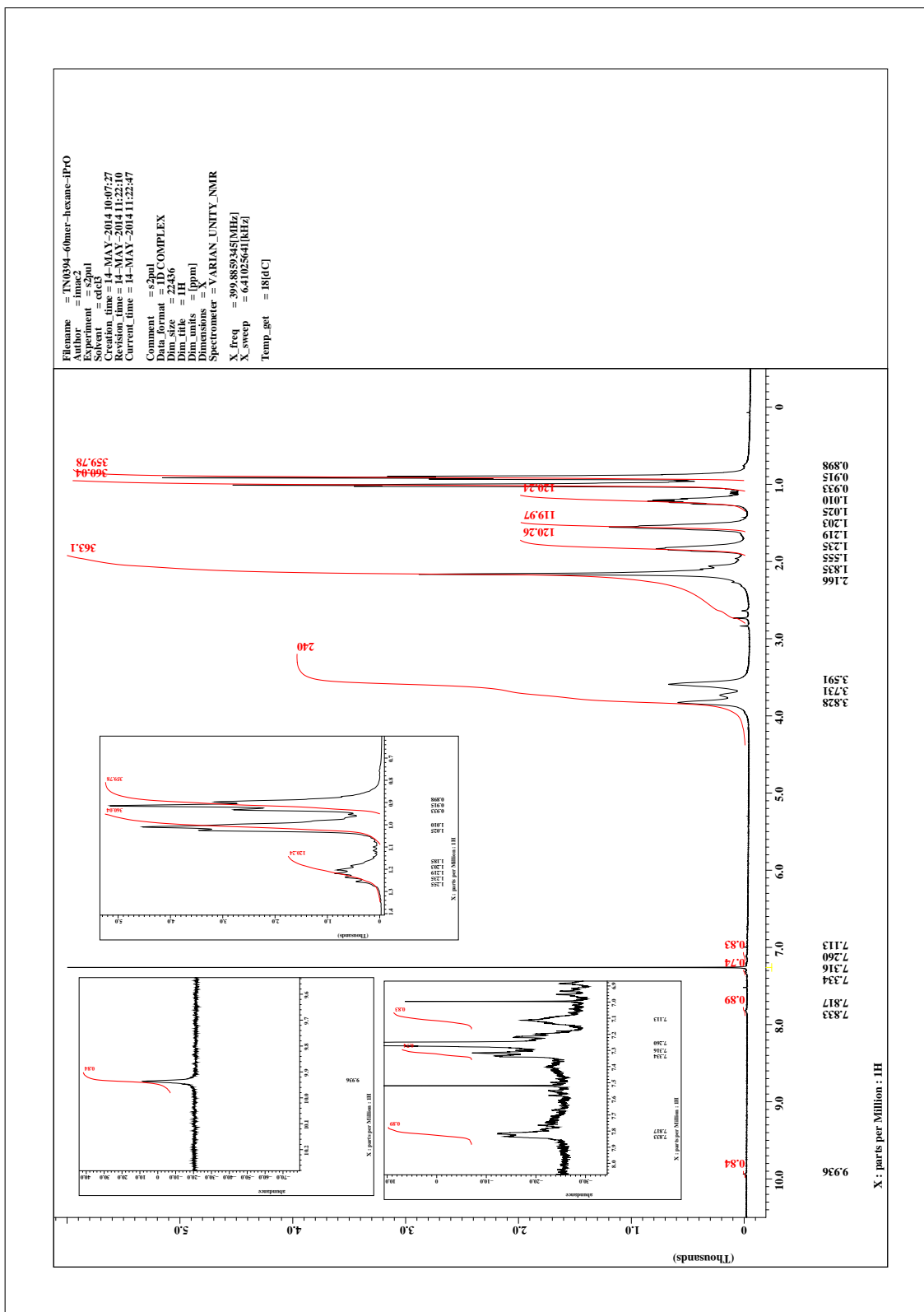


Figure S24. ^1H NMR spectrum of **3(60)** in CDCl_3 .

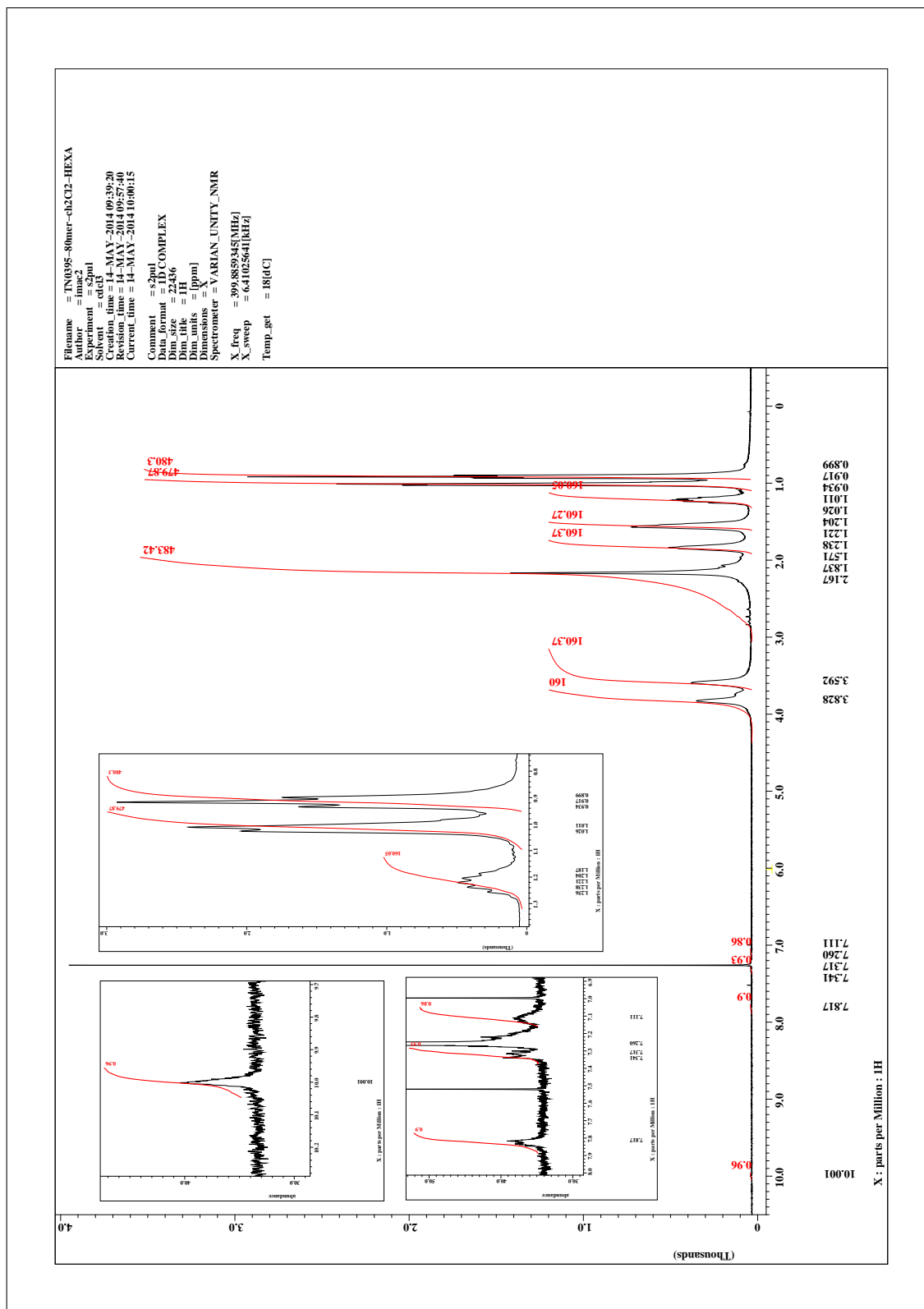


Figure S25. ^1H NMR spectrum of **3(80)** in CDCl_3 .

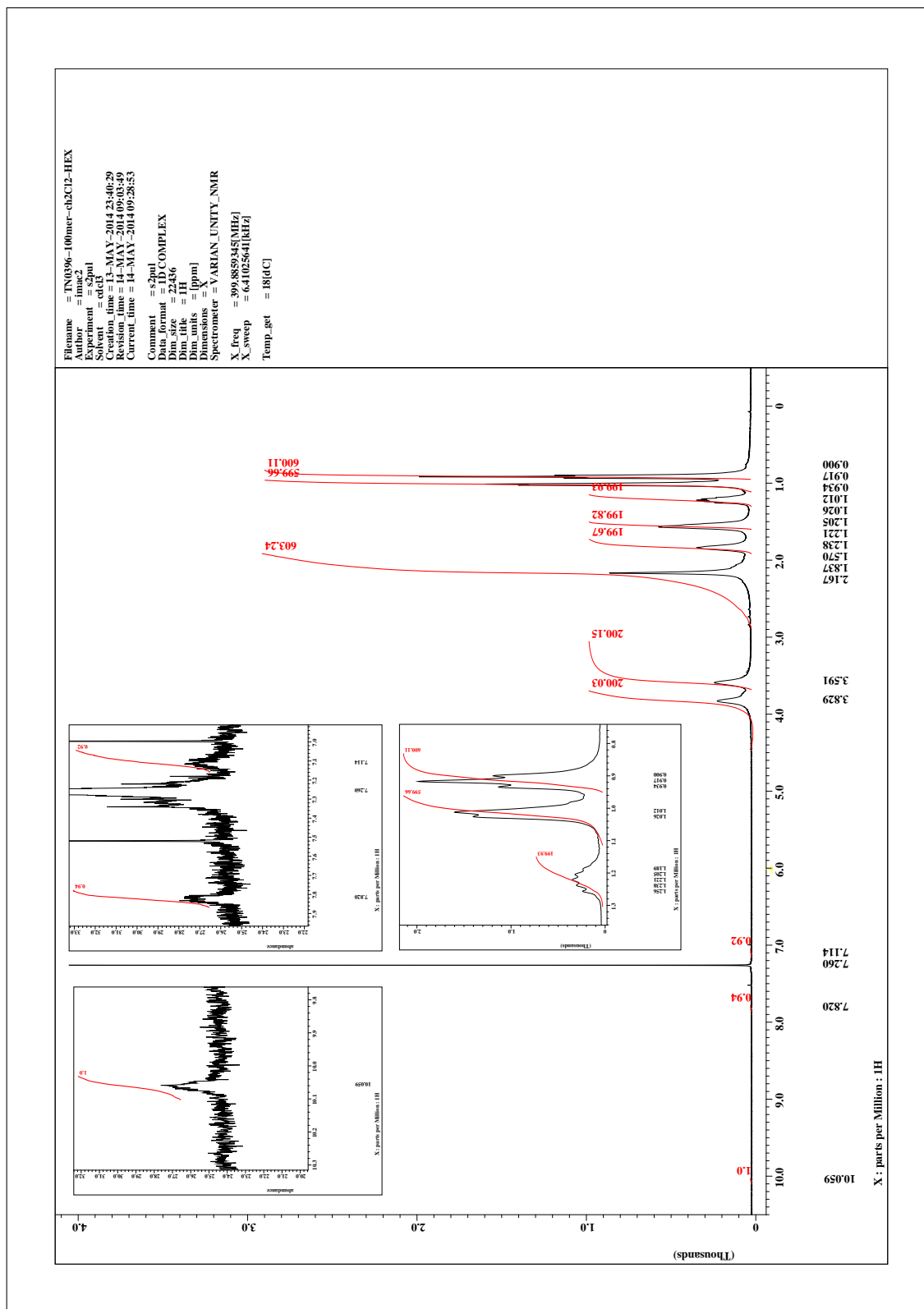


Figure S26. ^1H NMR spectrum of **3(100)** in CDCl_3 .

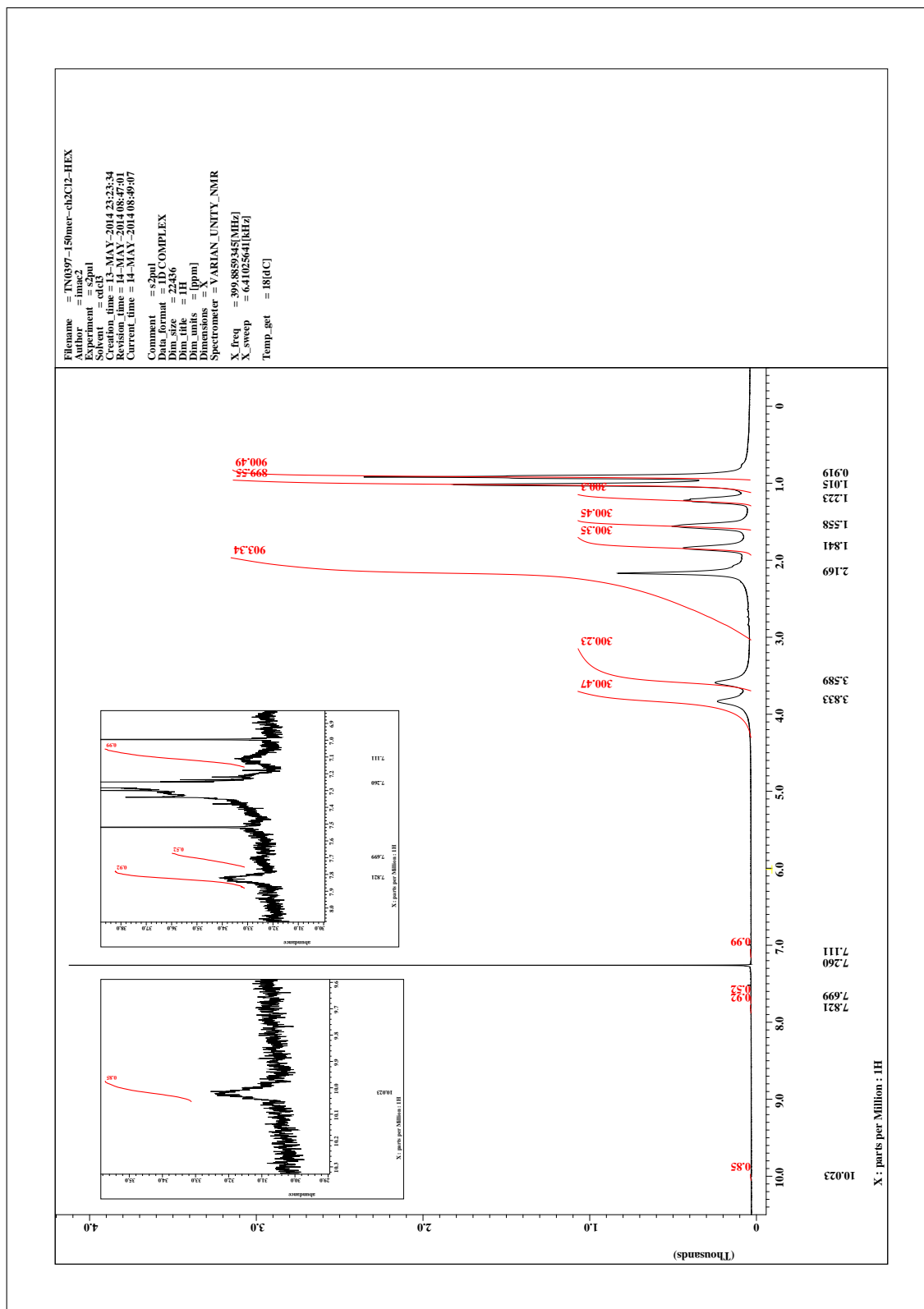


Figure S27. ^1H NMR spectrum of **3(150)** in CDCl_3 .

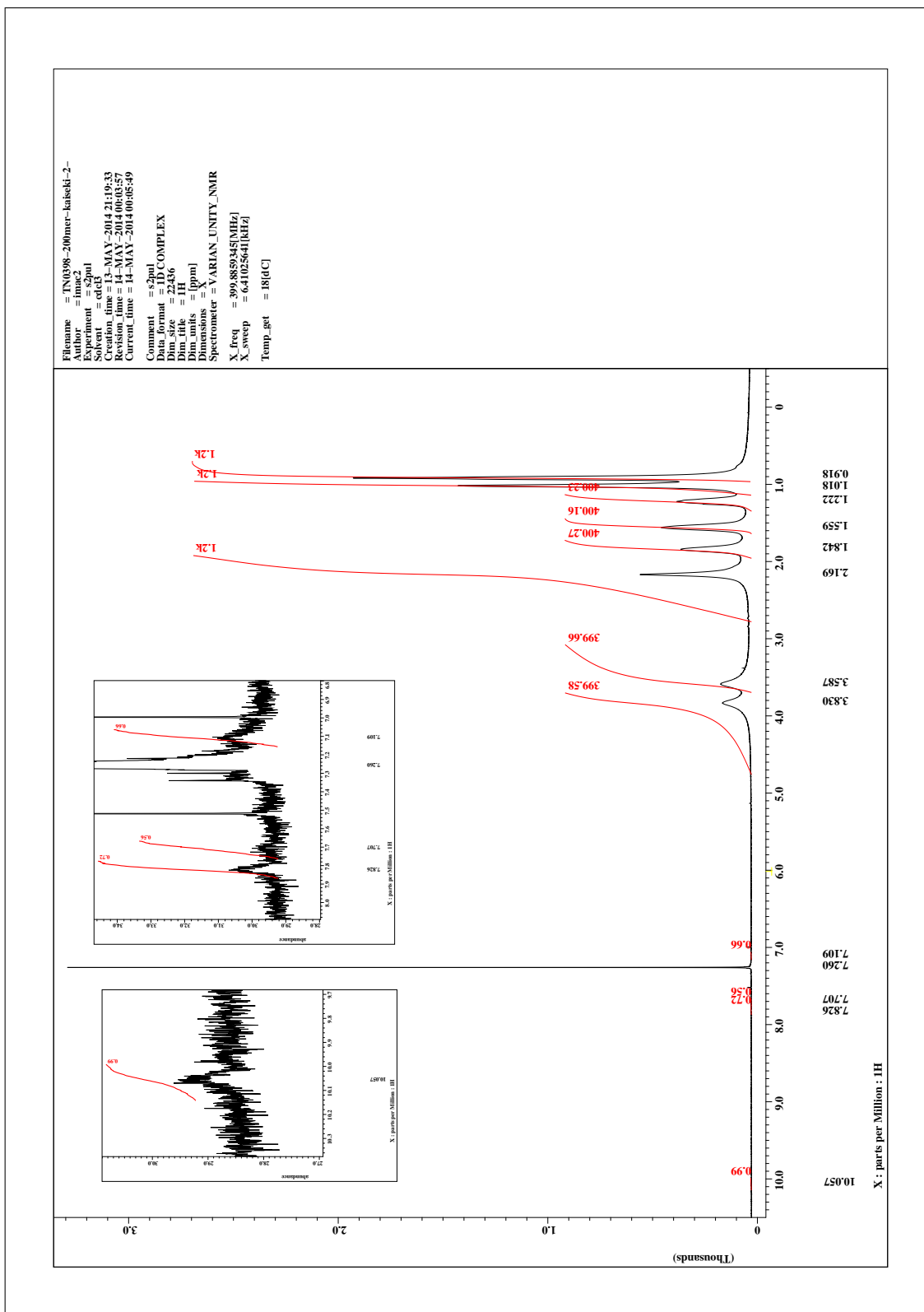


Figure S28. ¹H NMR spectrum of **3(200)** in CDCl₃.

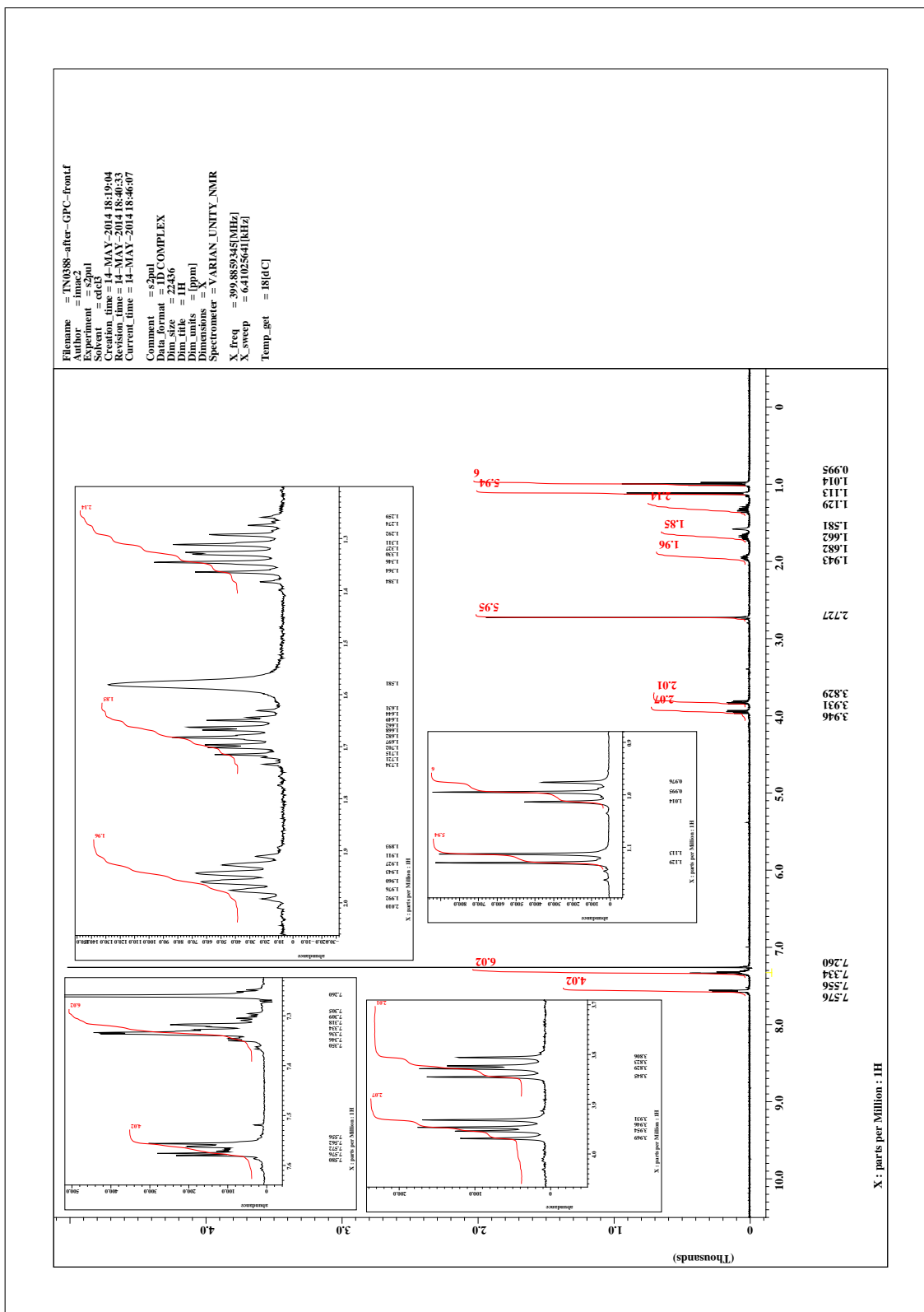


Figure S29. ^1H NMR spectrum of **4** in CDCl_3 .

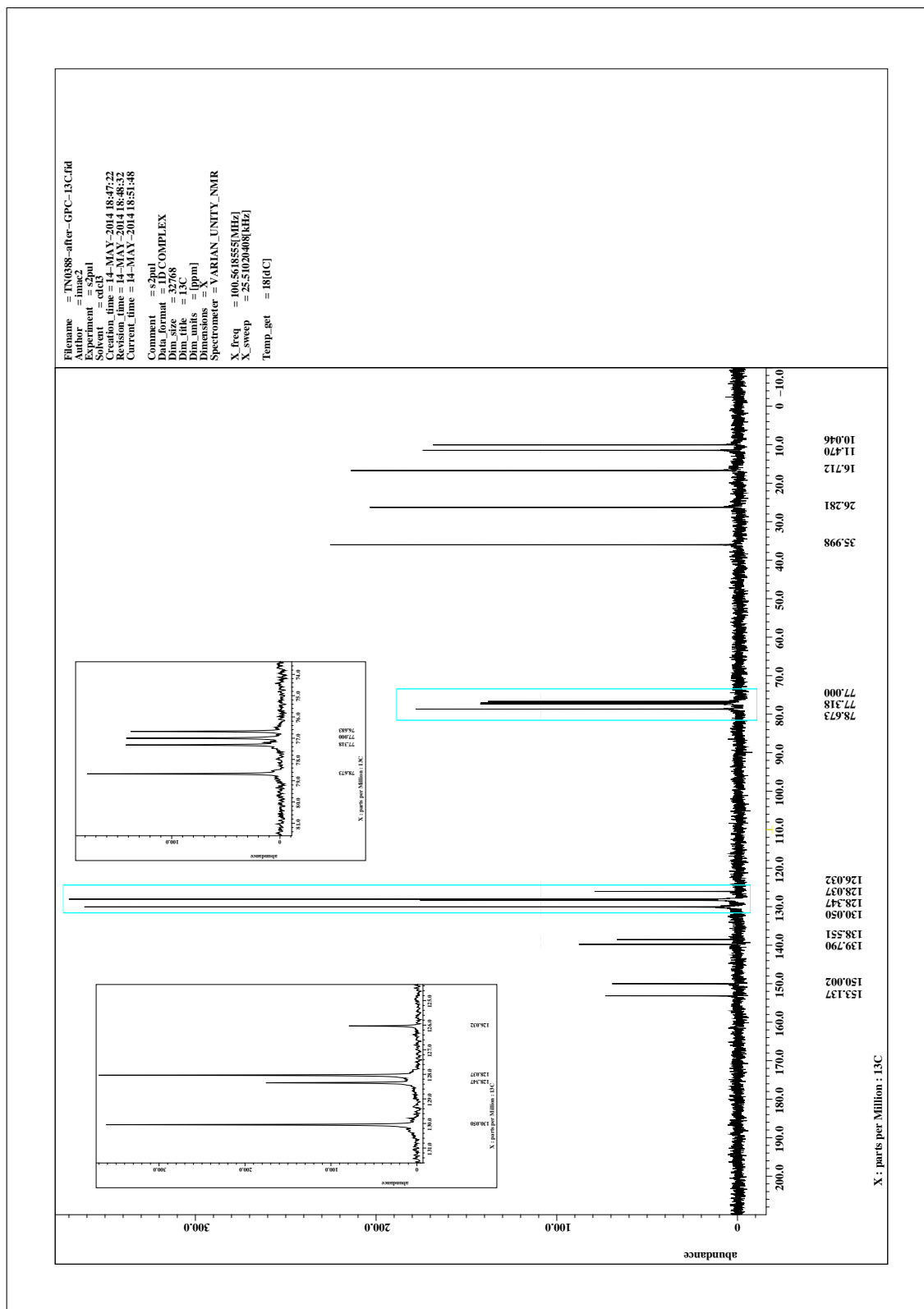


Figure S30. ^{13}C NMR spectrum of **4** in CDCl_3 .

2 UV-vis and CD Spectra of New Compounds

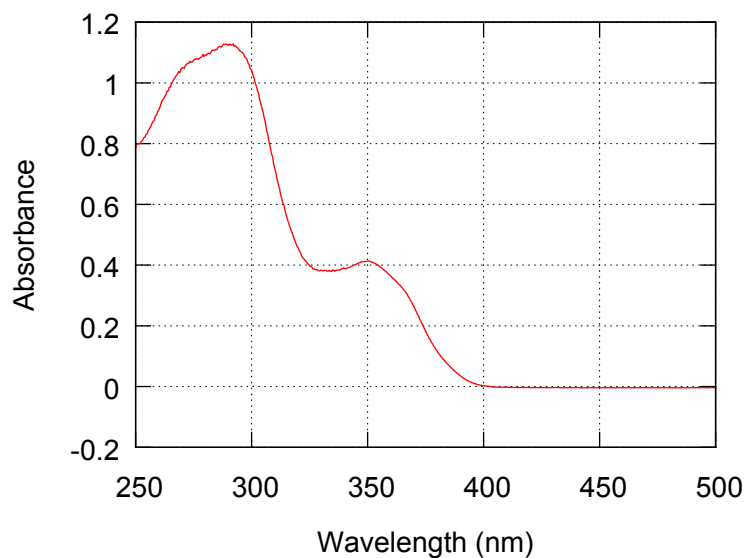


Figure S31. UV-vis absorption spectrum of **1(200)** in CHCl_3 (1.60×10^{-2} g/L, path length = 10 mm).

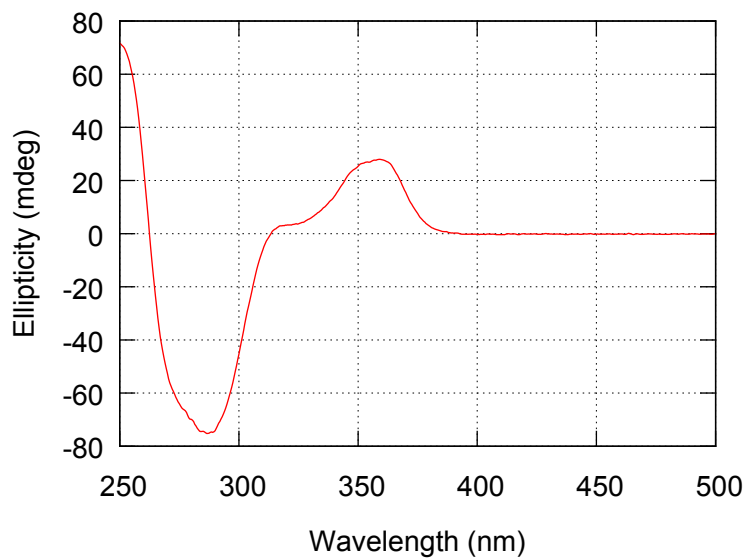


Figure S32. CD spectrum of **1(200)** in CHCl_3 (1.60×10^{-2} g/L, path length = 10 mm).

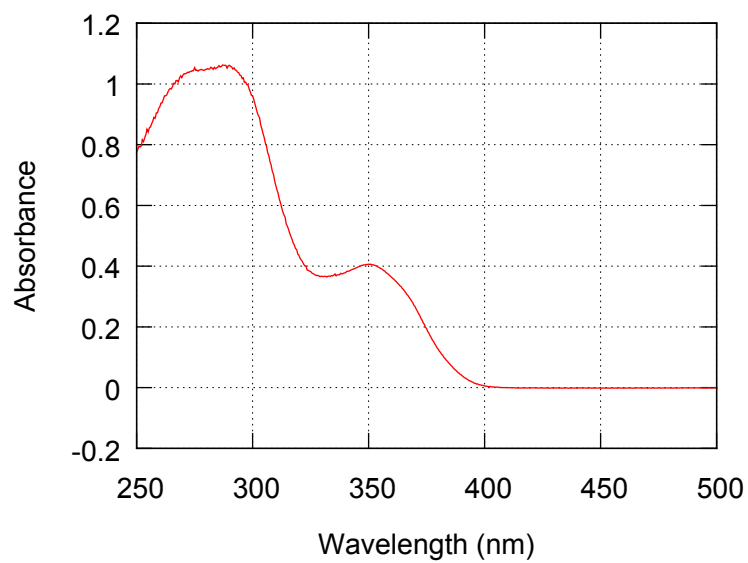


Figure S33. UV-vis absorption spectrum of **1(200)** in 1,1,1-TCE (1.60×10^{-2} g/L, path length = 10 mm).

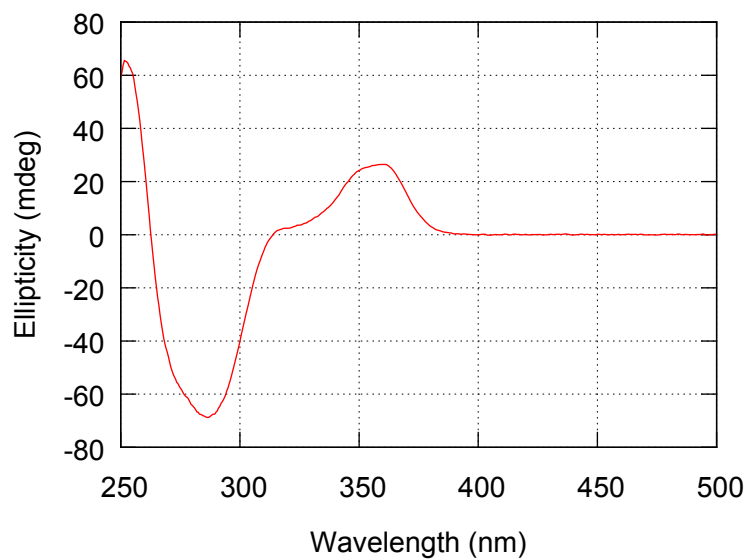


Figure S34. CD spectrum of **1(200)** in 1,1,1-TCE (1.60×10^{-2} g/L, path length = 10 mm).

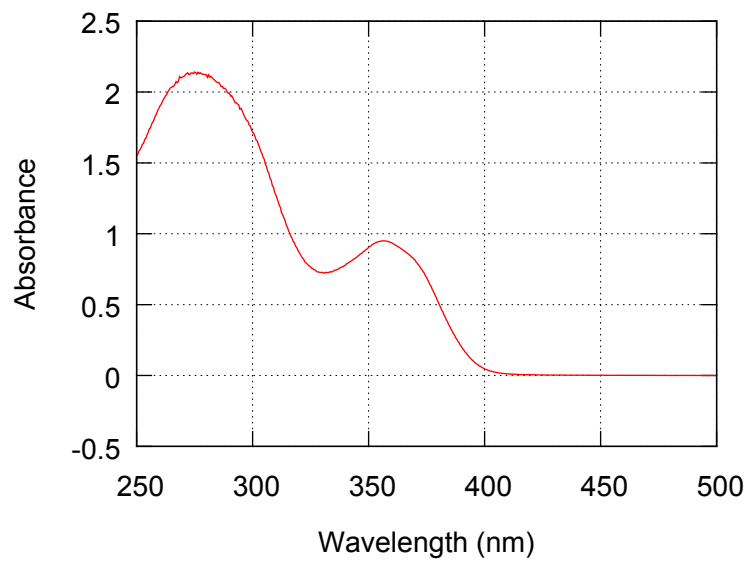


Figure S35. UV-vis absorption spectrum of **2(200)** in CHCl_3 (2.36×10^{-2} g/L, path length = 10 mm).

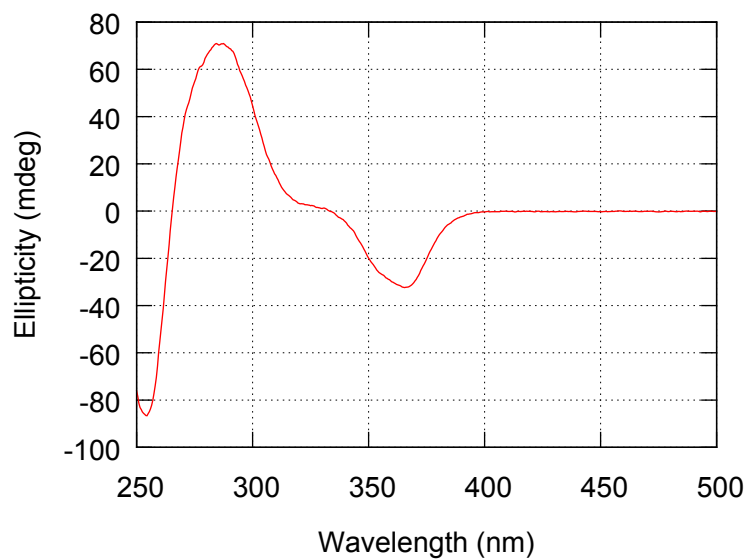


Figure S36. CD spectrum of **2(200)** in CHCl_3 (2.36×10^{-2} g/L, path length = 10 mm).

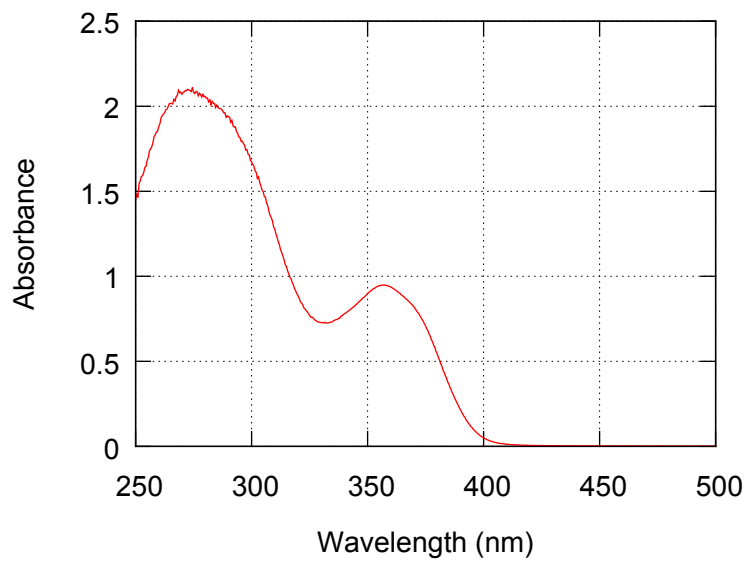


Figure S37. UV-vis absorption spectrum of **2(200)** in 1,1,1-TCE (2.36×10^{-2} g/L, path length = 10 mm).

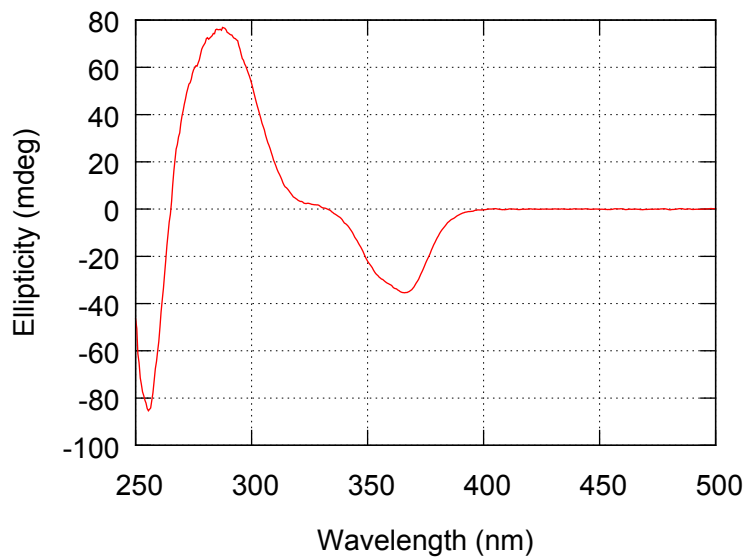


Figure S38. CD spectrum of **2(200)** in 1,1,1-TCE (2.36×10^{-2} g/L, path length = 10 mm).

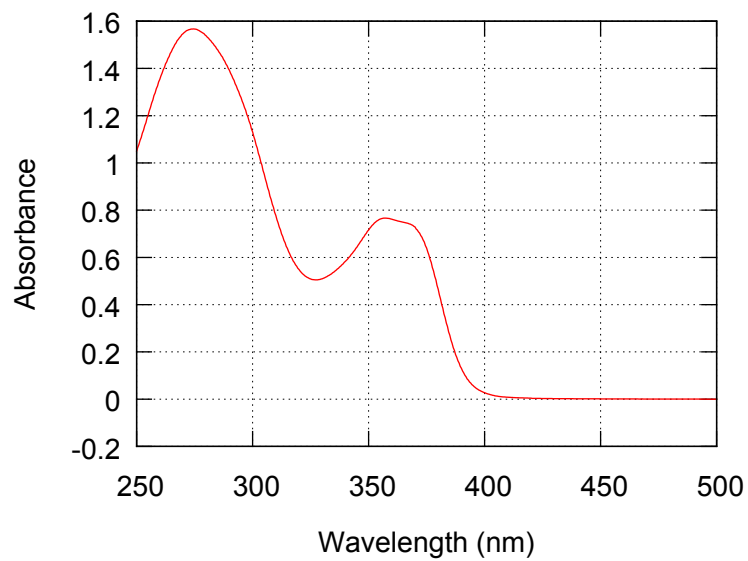


Figure S39. UV-vis absorption spectrum of **3(30)** in CHCl_3 (2.08×10^{-2} g/L, path length = 10 mm).

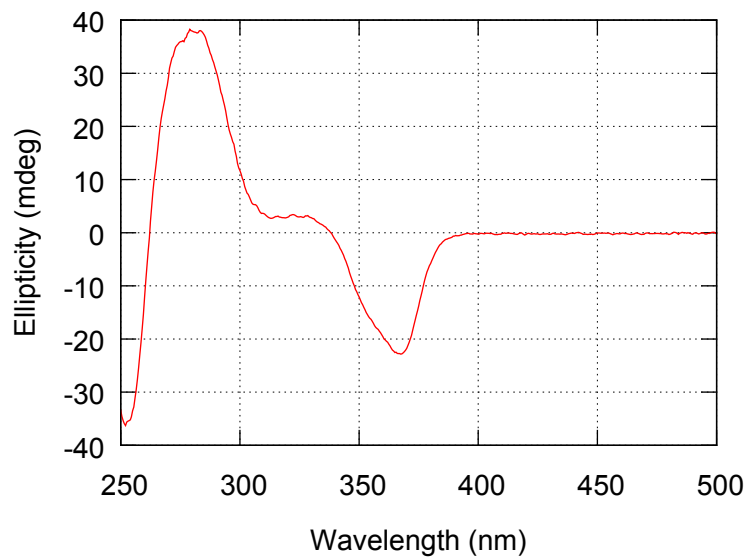


Figure S40. CD spectrum of **3(30)** in CHCl_3 (2.08×10^{-2} g/L, path length = 10 mm).

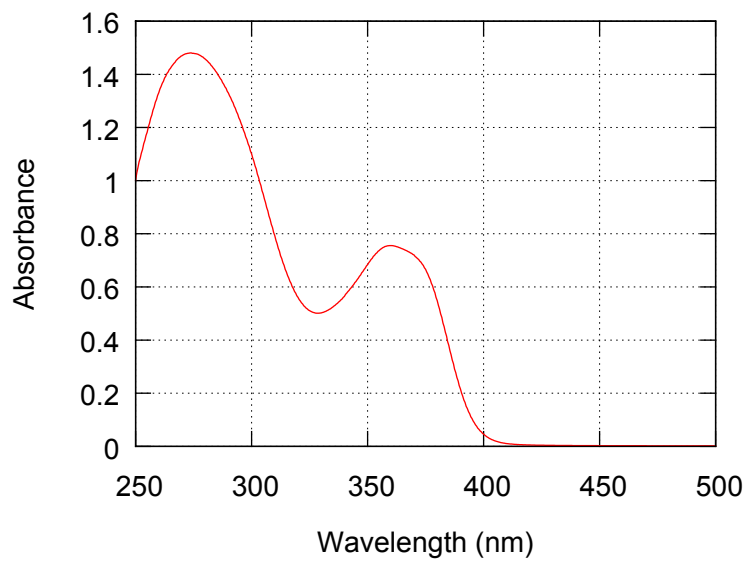


Figure S41. UV-vis absorption spectrum of **3(30)** in 1,1,1-TCE (2.08×10^{-2} g/L, path length = 10 mm).

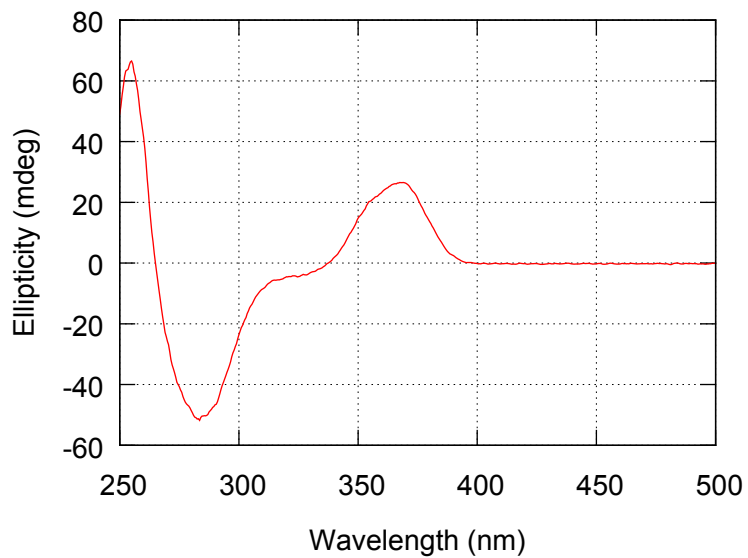


Figure S42. CD spectrum of **3(30)** in 1,1,1-TCE (2.08×10^{-2} g/L, path length = 10 mm).

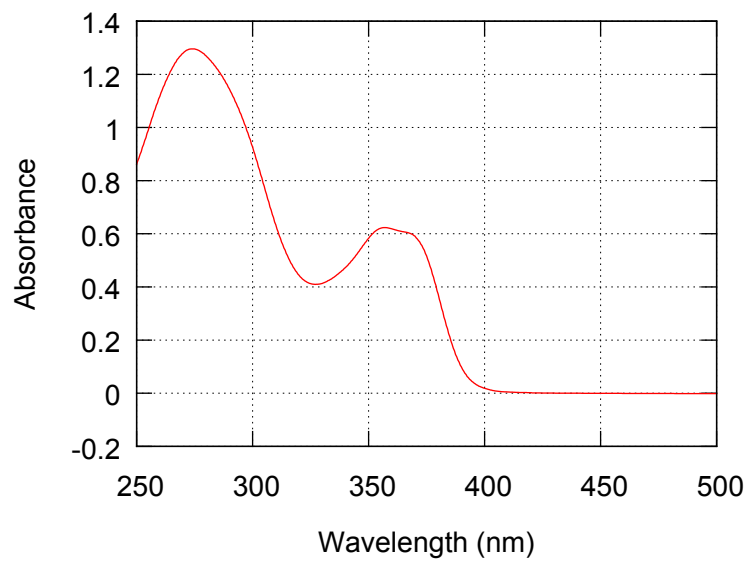


Figure S43. UV-vis absorption spectrum of **3(40)** in CHCl_3 (2.09×10^{-2} g/L, path length = 10 mm).

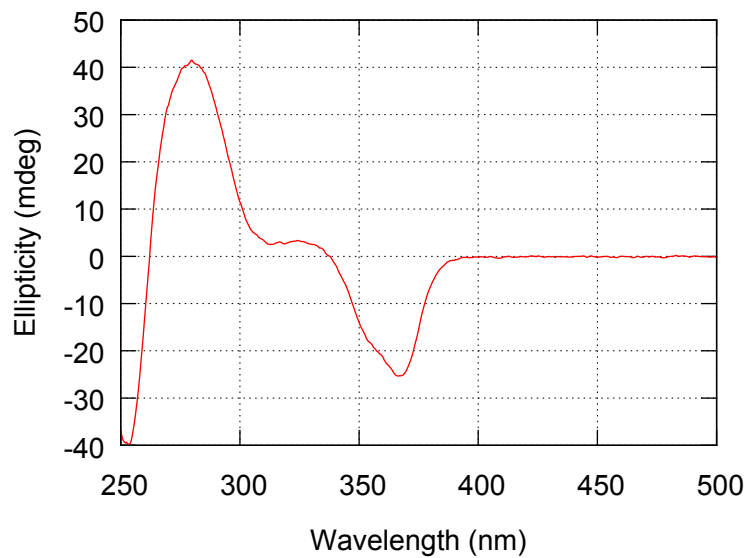


Figure S44. CD spectrum of **3(40)** in CHCl_3 (2.09×10^{-2} g/L, path length = 10 mm).

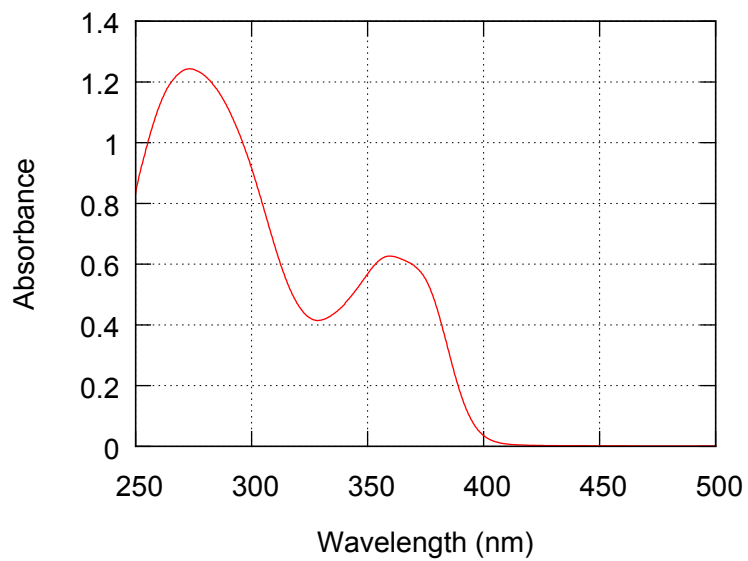


Figure S45. UV-vis absorption spectrum of **3(40)** in 1,1,1-TCE (2.09×10^{-2} g/L, path length = 10 mm).

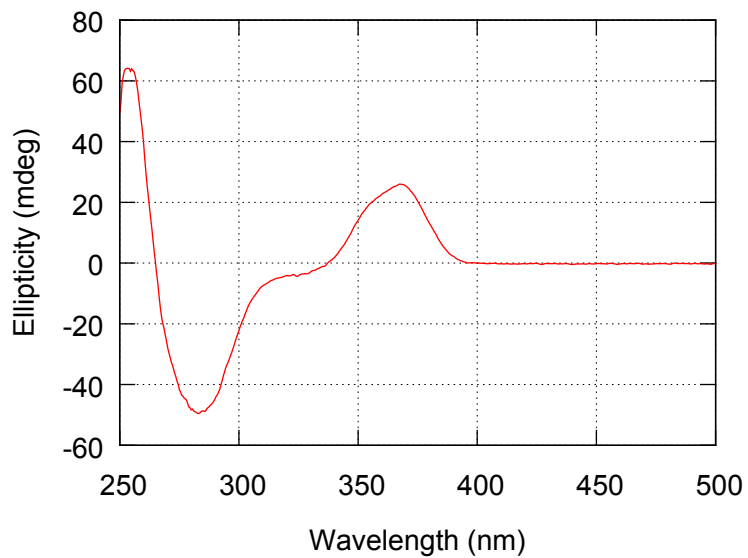


Figure S46. CD spectrum of **3(40)** in 1,1,1-TCE (2.09×10^{-2} g/L, path length = 10 mm).

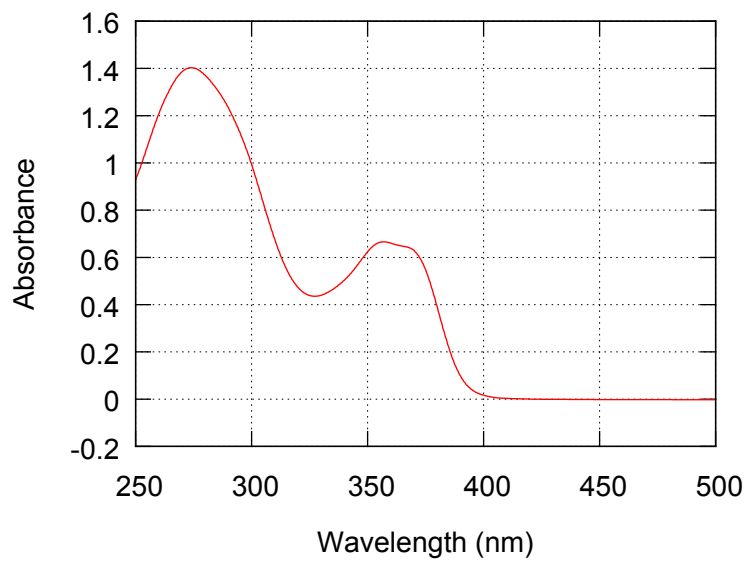


Figure S47. UV-vis absorption spectrum of **3(60)** in CHCl_3 (2.70×10^{-2} g/L, path length = 10 mm).

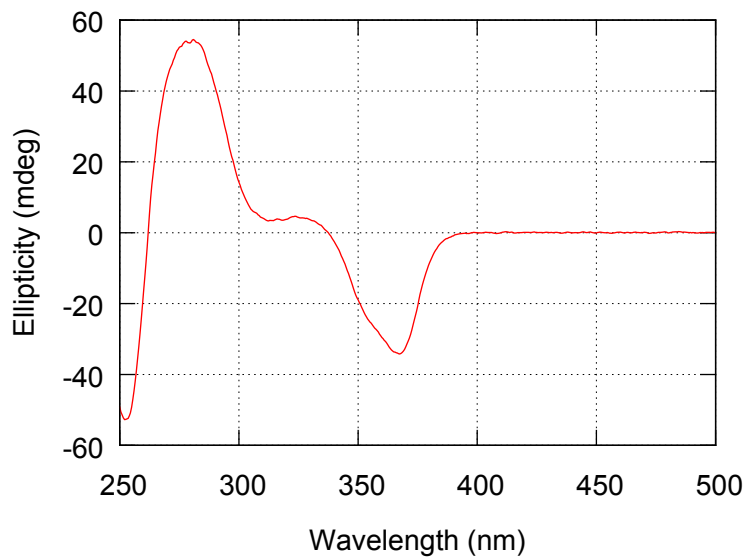


Figure S48. CD spectrum of **3(60)** in CHCl_3 (2.70×10^{-2} g/L, path length = 10 mm).

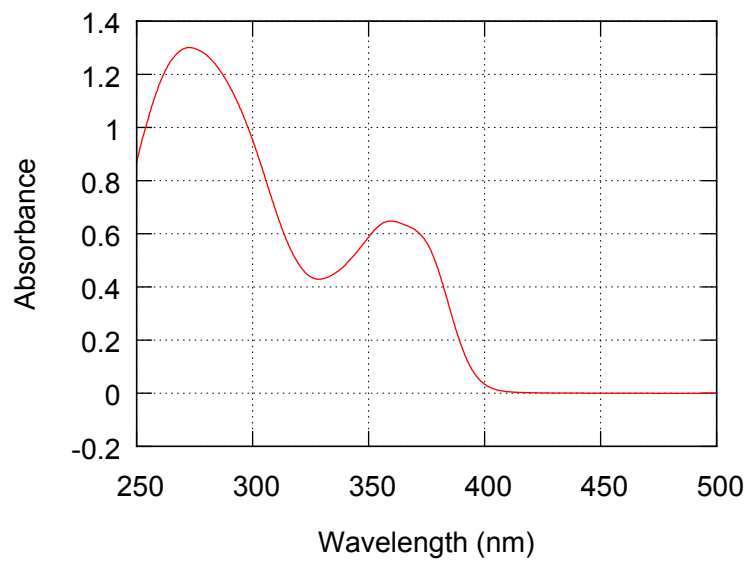


Figure S49. UV-vis absorption spectrum of **3(60)** in 1,1,1-TCE (2.70×10^{-2} g/L, path length = 10 mm).

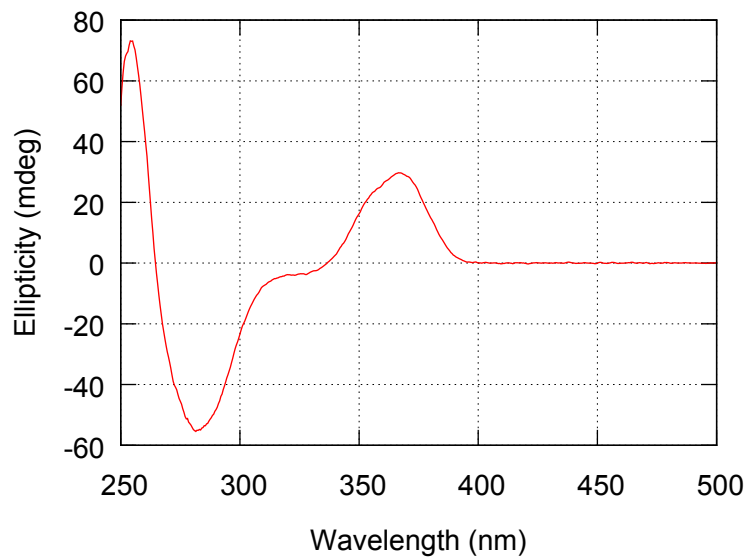


Figure S50. CD spectrum of **3(60)** in 1,1,1-TCE (2.70×10^{-2} g/L, path length = 10 mm).

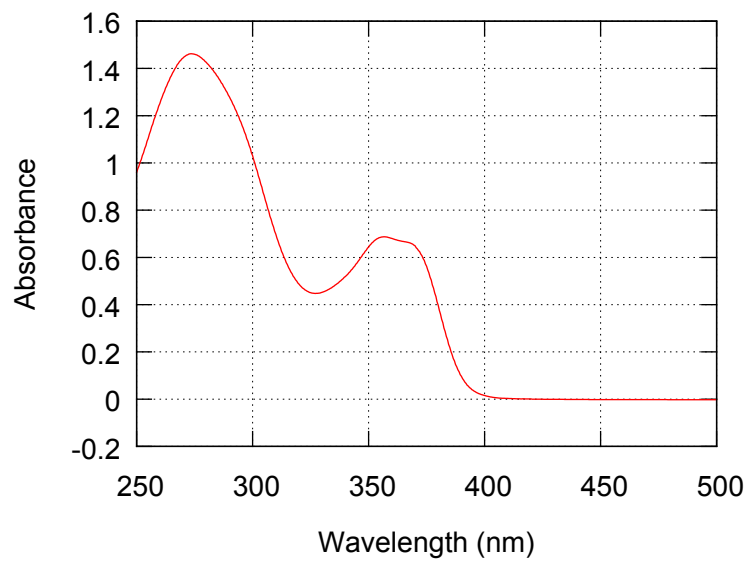


Figure S51. UV-vis absorption spectrum of **3(80)** in CHCl_3 (2.90×10^{-2} g/L, path length = 10 mm).

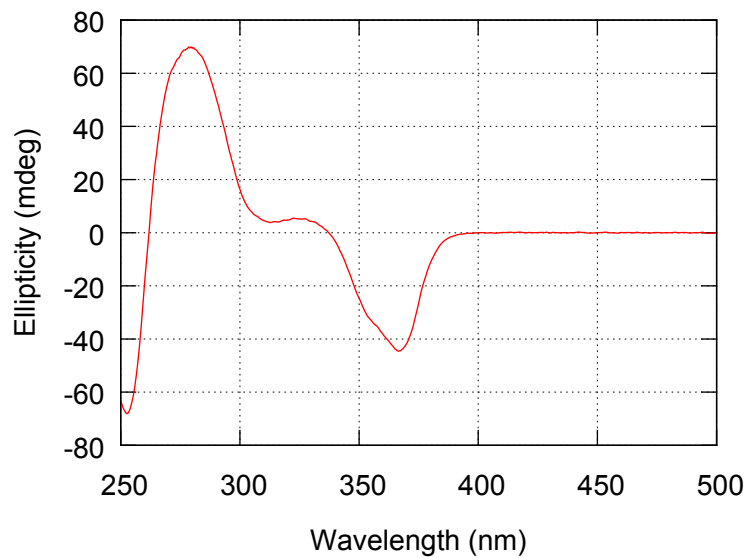


Figure S52. CD spectrum of **3(80)** in CHCl_3 (2.90×10^{-2} g/L, path length = 10 mm).

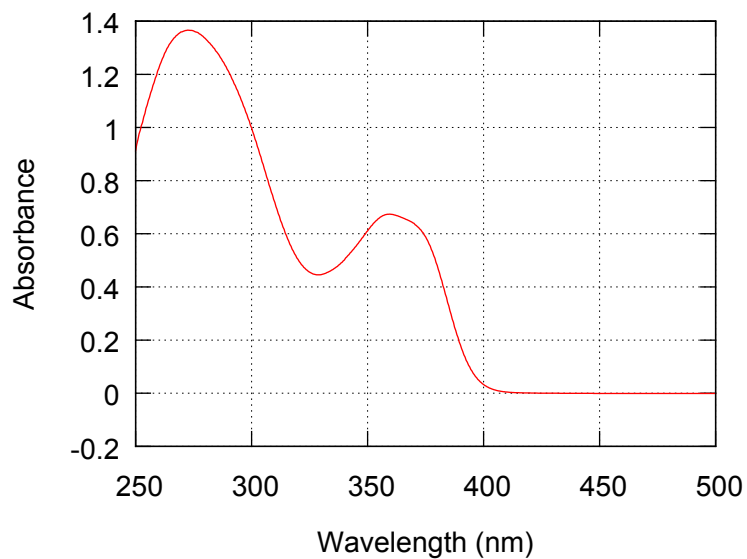


Figure S53. UV-vis absorption spectrum of **3(80)** in 1,1,1-TCE (2.90×10^{-2} g/L, path length = 10 mm).

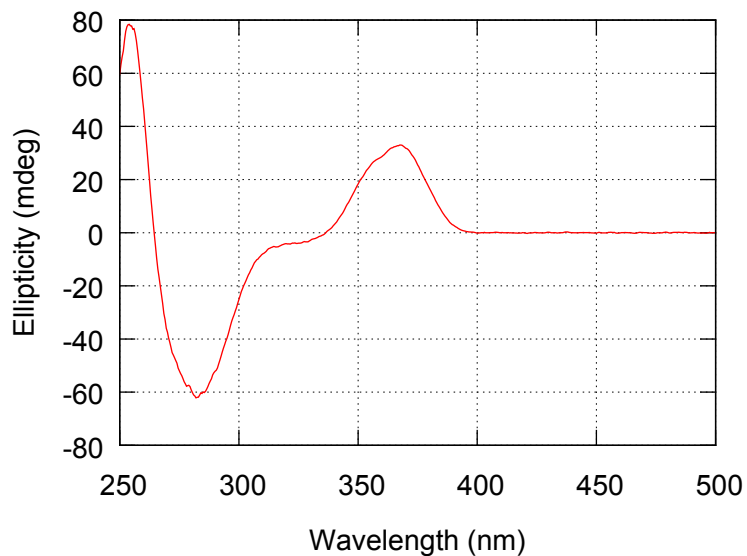


Figure S54. CD spectrum of **3(80)** in 1,1,1-TCE (2.90×10^{-2} g/L, path length = 10 mm).

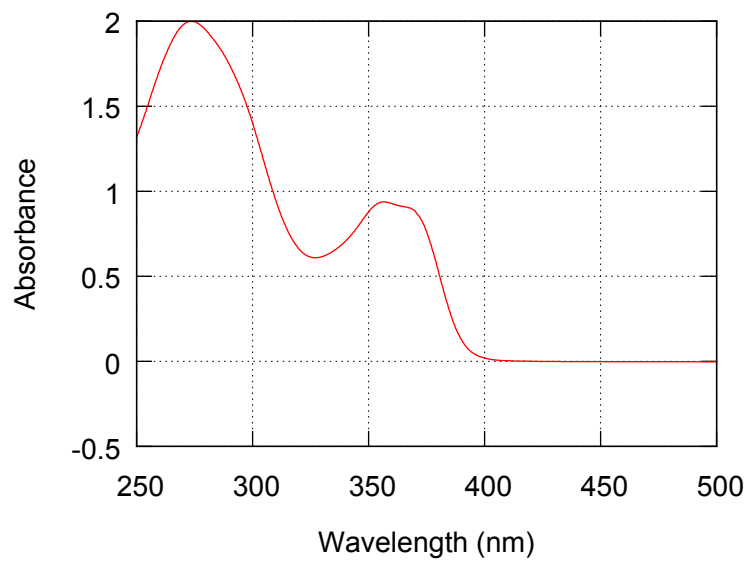


Figure S55. UV-vis absorption spectrum of **3(100)** in CHCl_3 (3.29×10^{-2} g/L, path length = 10 mm).

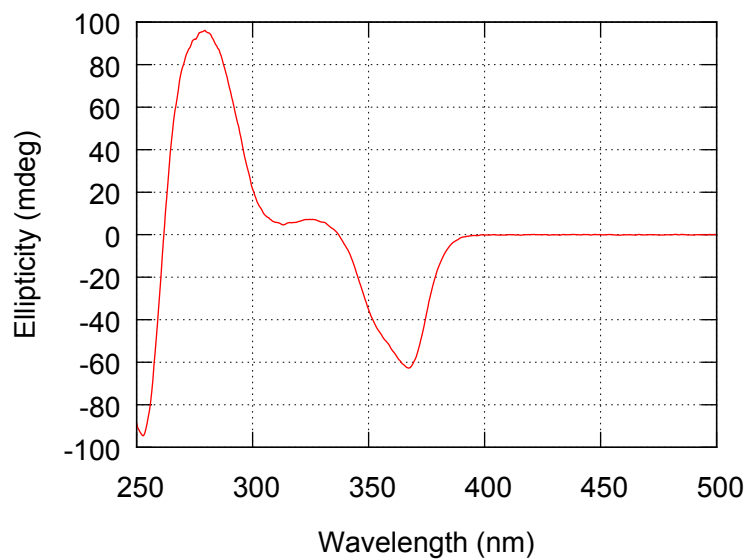


Figure S56. CD spectrum of **3(100)** in CHCl_3 (3.29×10^{-2} g/L, path length = 10 mm).

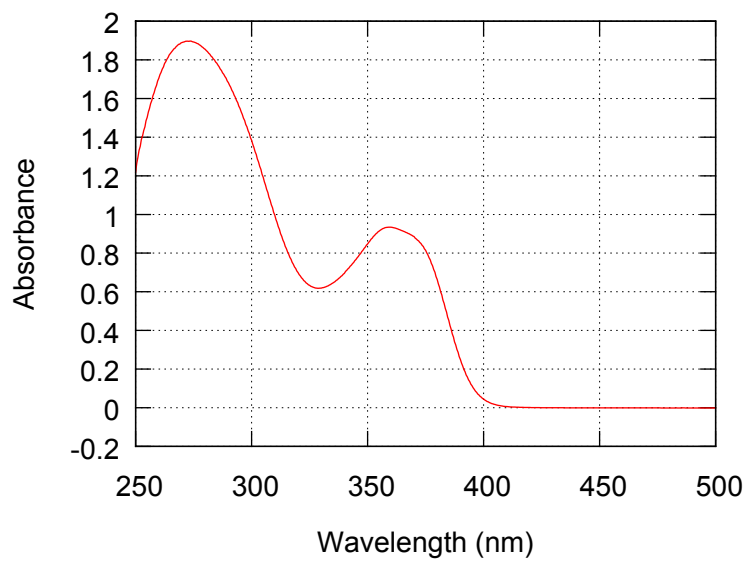


Figure S57. UV-vis absorption spectrum of **3(100)** in 1,1,1-TCE (3.29×10^{-2} g/L, path length = 10 mm).

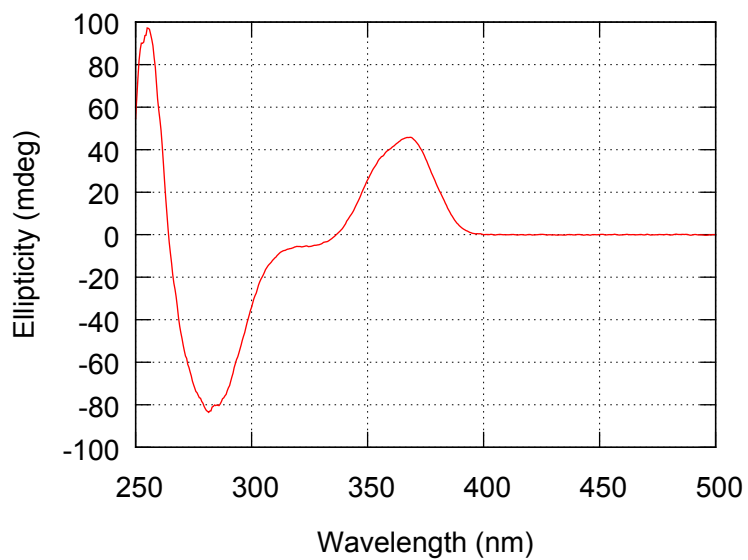


Figure S58. CD spectrum of **3(100)** in 1,1,1-TCE (3.29×10^{-2} g/L, path length = 10 mm).

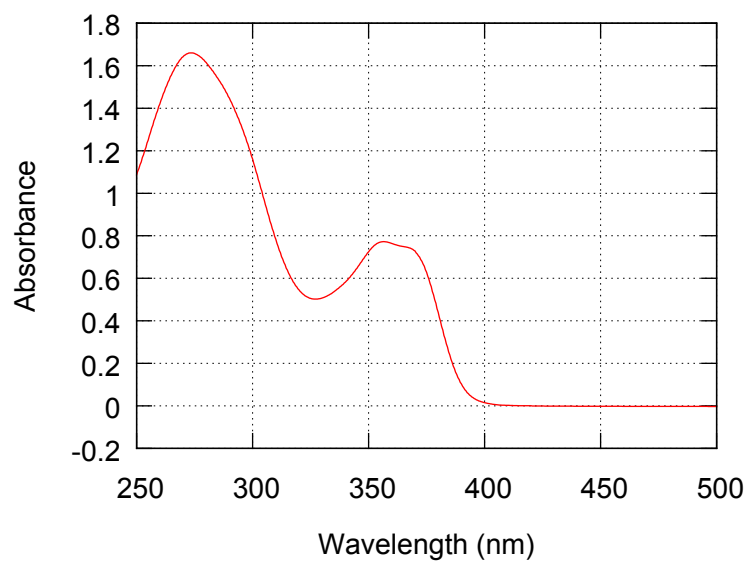


Figure S59. UV-vis absorption spectrum of **3(150)** in CHCl_3 (2.83×10^{-2} g/L, path length = 10 mm).

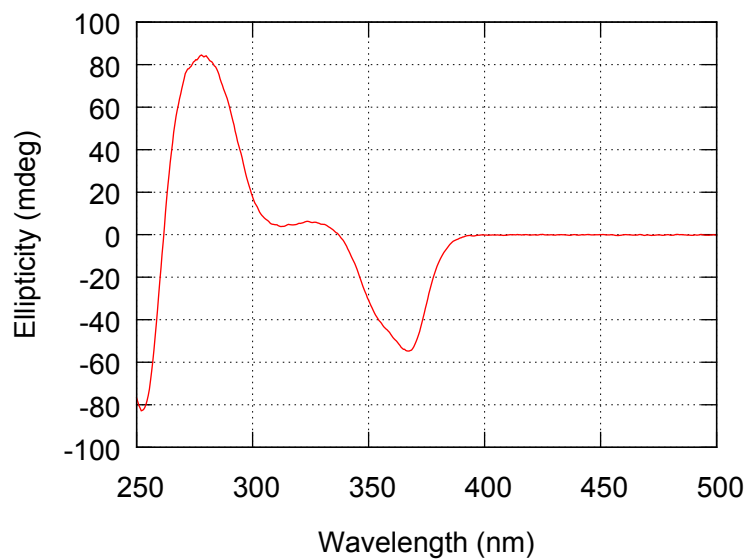


Figure S60. CD spectrum of **3(150)** in CHCl_3 (2.83×10^{-2} g/L, path length = 10 mm).

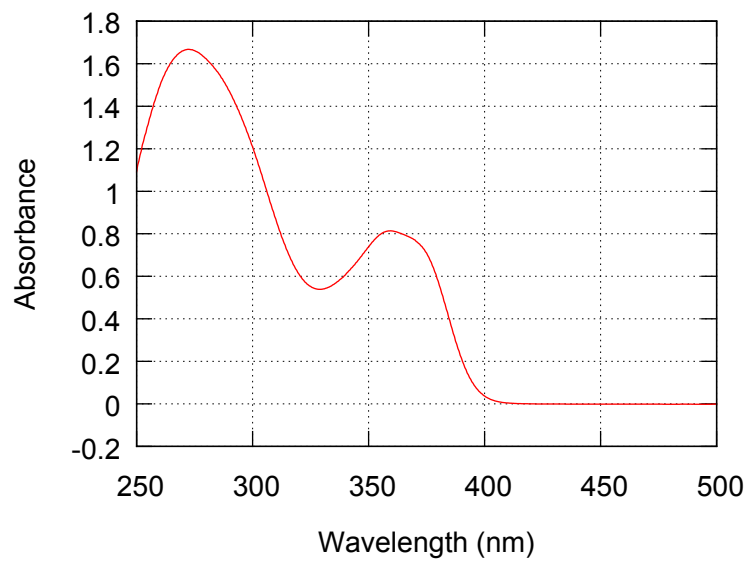


Figure S61. UV-vis absorption spectrum of **3(150)** in 1,1,1-TCE (2.83×10^{-2} g/L, path length = 10 mm).

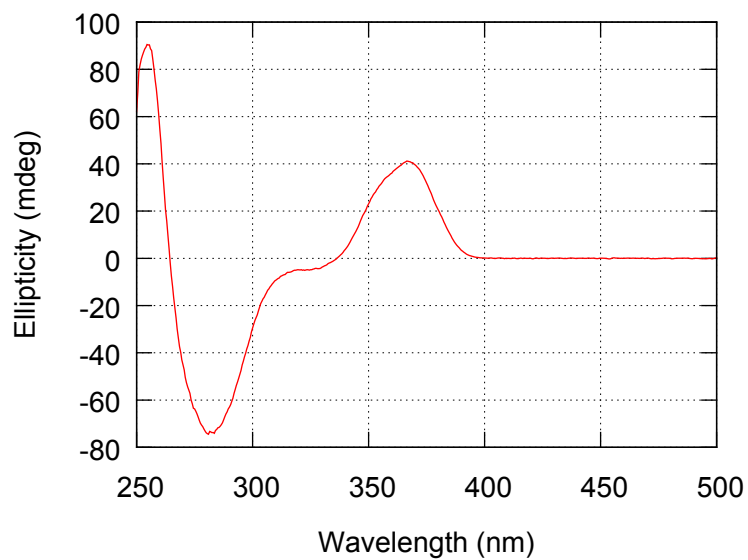


Figure S62. CD spectrum of **3(150)** in 1,1,1-TCE (2.83×10^{-2} g/L, path length = 10 mm).

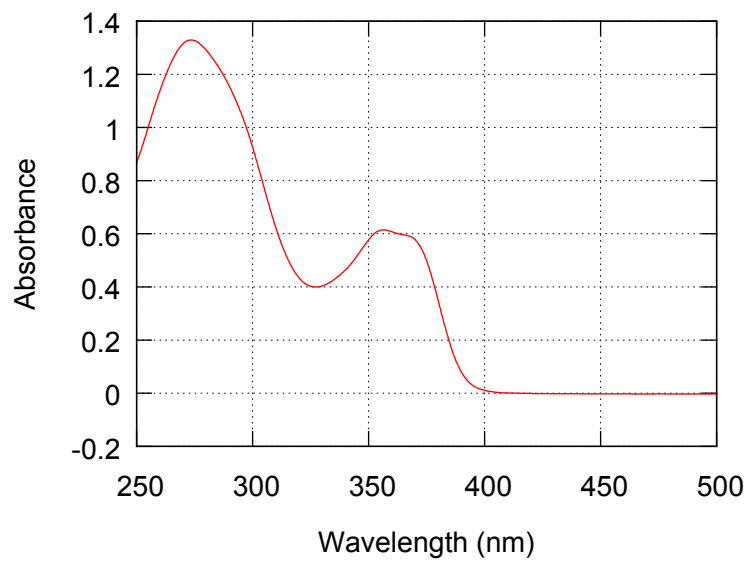


Figure S63. UV-vis absorption spectrum of **3(200)** in CHCl_3 (2.12×10^{-2} g/L, path length = 10 mm).

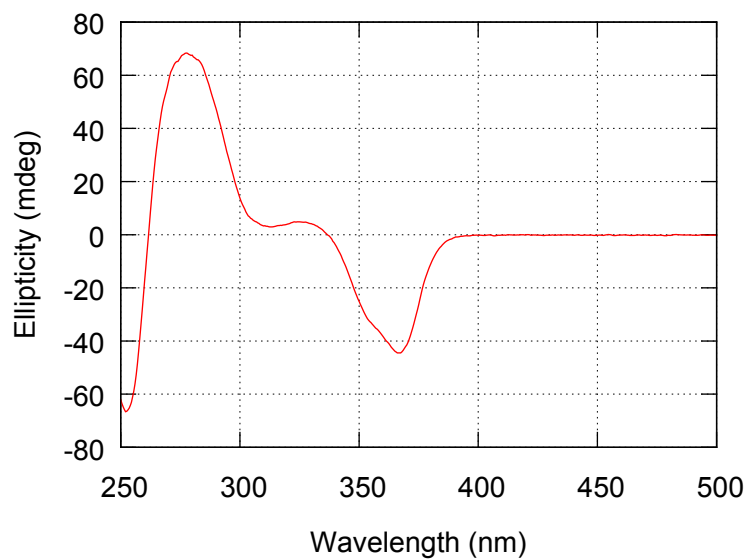


Figure S64. CD spectrum of **3(200)** in CHCl_3 (2.12×10^{-2} g/L, path length = 10 mm).

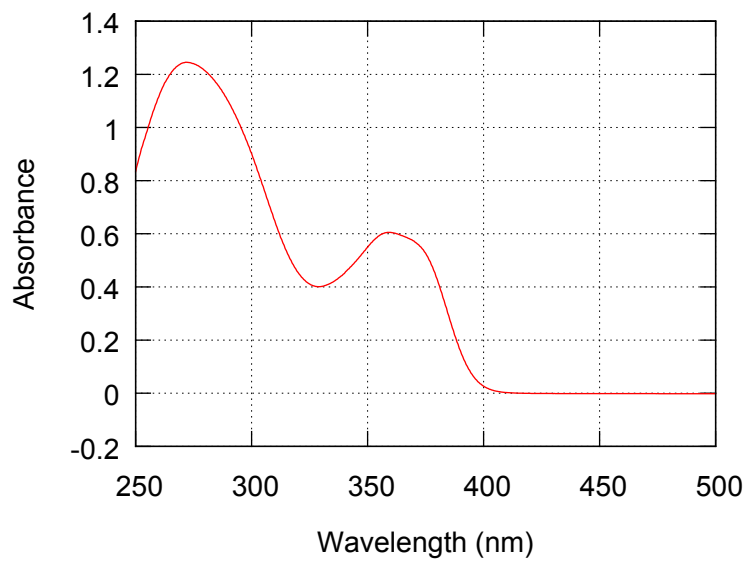


Figure S65. UV-vis absorption spectrum of **3(200)** in 1,1,1-TCE (2.12×10^{-2} g/L, path length = 10 mm).

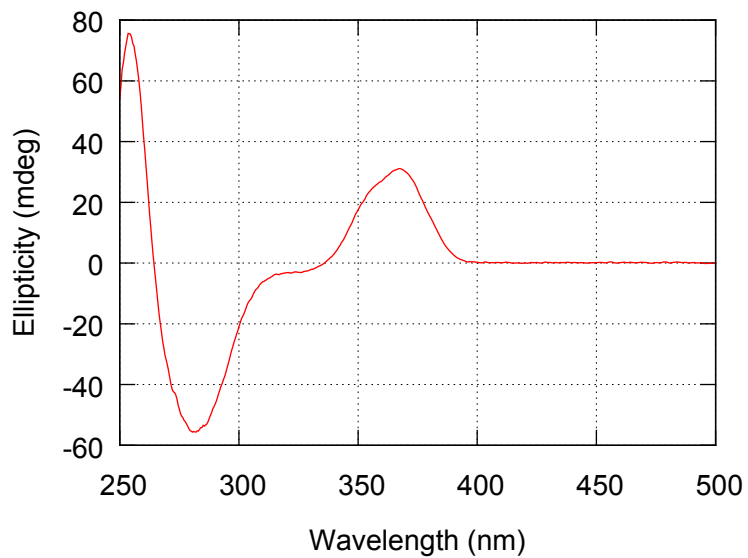


Figure S66. CD spectrum of **3(200)** in 1,1,1-TCE (2.12×10^{-2} g/L, path length = 10 mm).

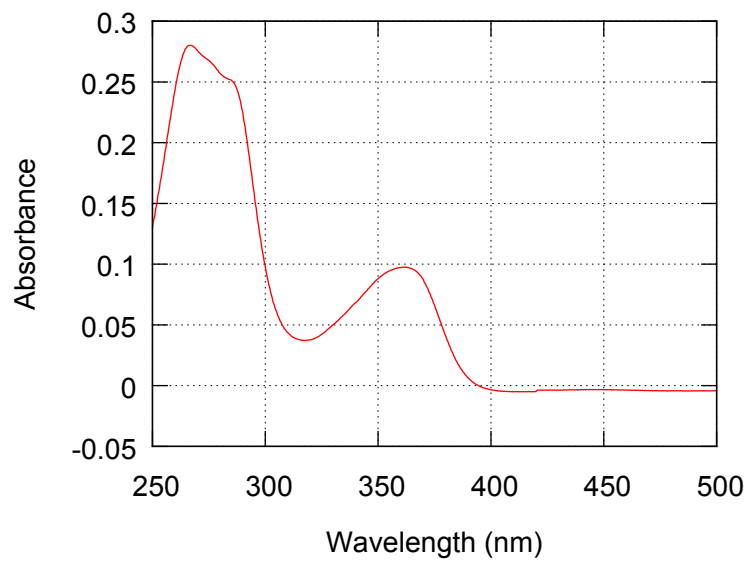


Figure S67. UV-vis absorption spectrum of **4** in CHCl_3 (4.82×10^{-3} g/L, path length = 10 mm).

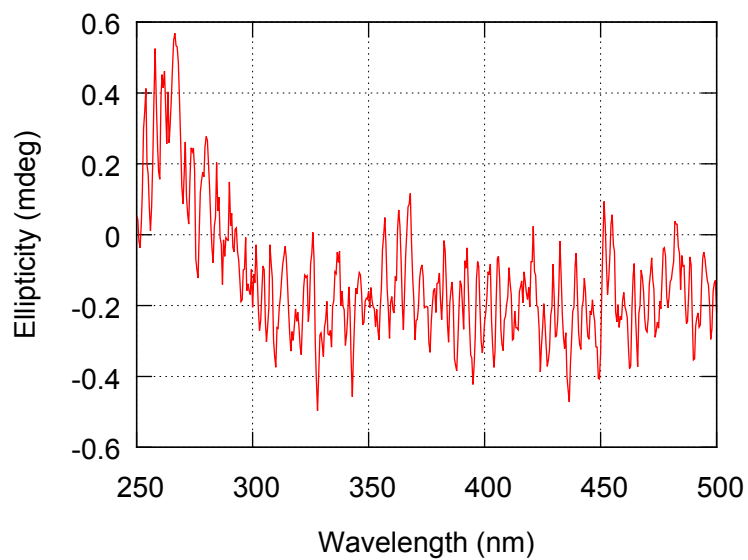


Figure S68. CD spectrum of **4** in CHCl_3 (4.82×10^{-3} g/L, path length = 10 mm).

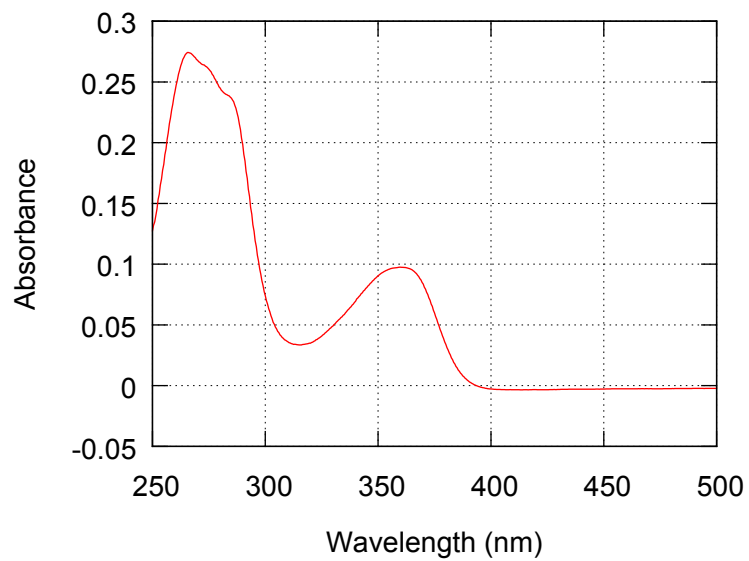


Figure S69. UV-vis absorption spectrum of **4** in 1,1,1-TCE (4.82×10^{-3} g/L, path length = 10 mm).

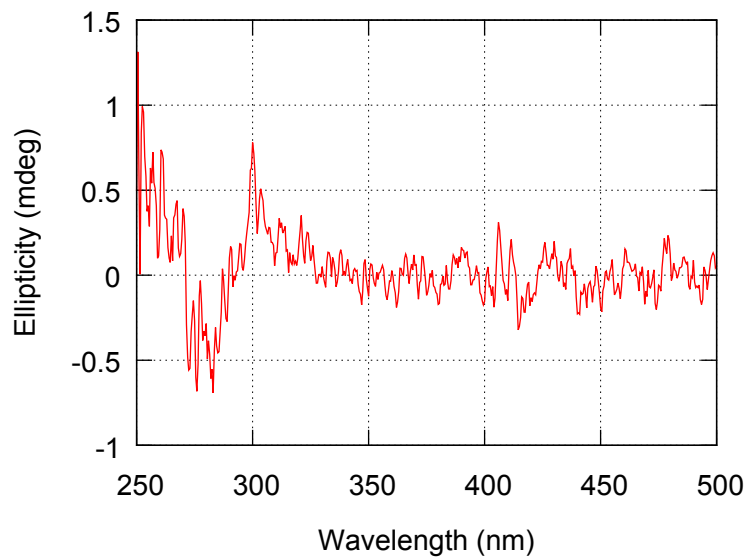


Figure S70. CD spectrum of **4** in 1,1,1-TCE (4.82×10^{-3} g/L, path length = 10 mm).

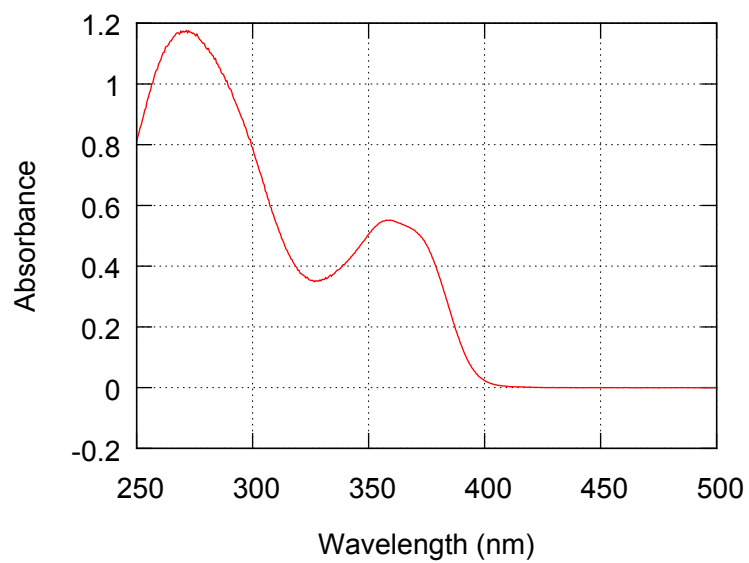


Figure S71. UV-vis absorption spectrum of **3(200)** in 1- BuCl (2.22×10^{-2} g/L, path length = 10 mm).

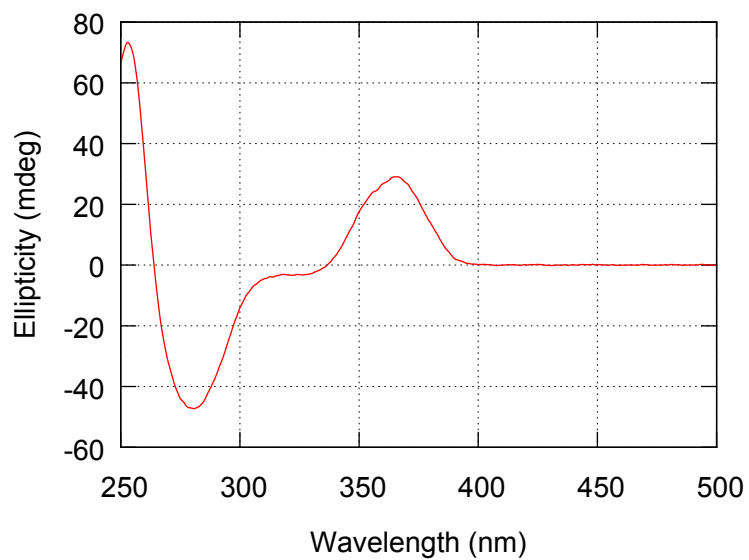


Figure S72. CD spectrum of **3(200)** in 1- BuCl (2.22×10^{-2} g/L, path length = 10 mm).

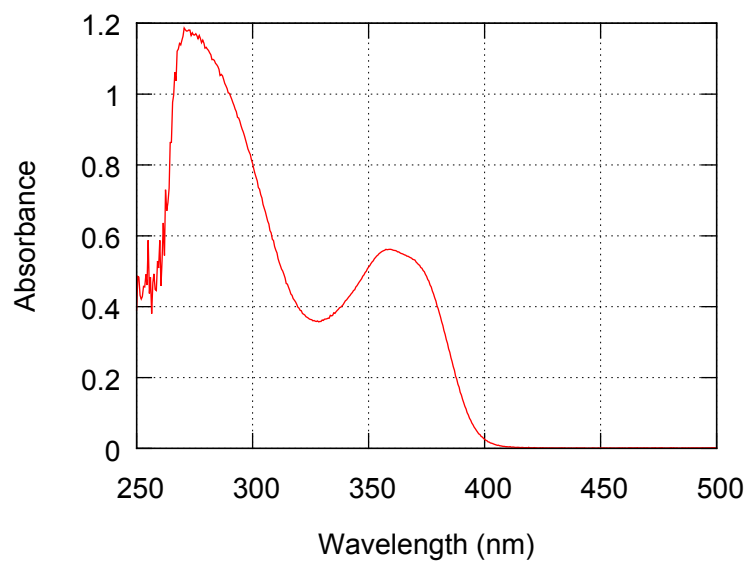


Figure S73. UV-vis absorption spectrum of **3(200)** in 1- BuBr (2.22×10^{-2} g/L, path length = 10 mm).

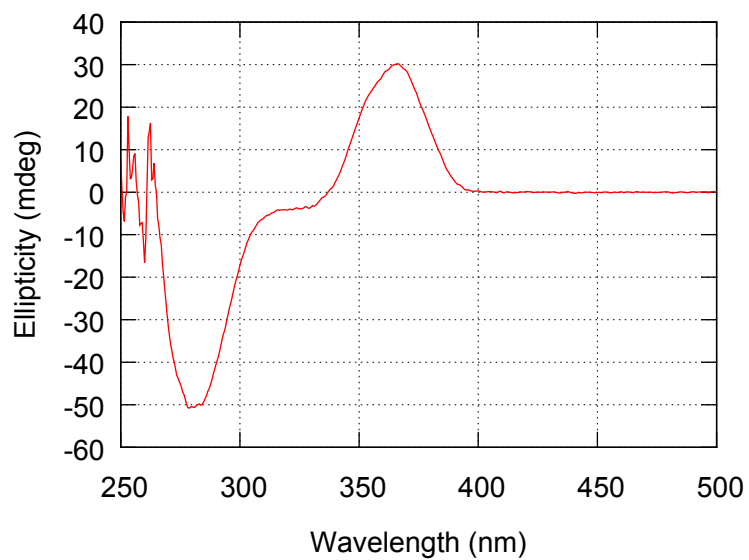


Figure S74. CD spectrum of **3(200)** in 1- BuBr (2.22×10^{-2} g/L, path length = 10 mm).

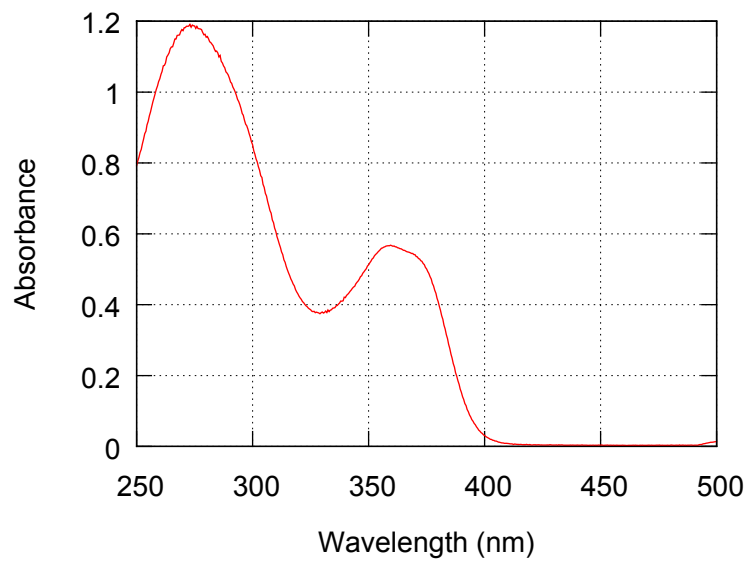


Figure S75. UV-vis absorption spectrum of **3(200)** in CH₂Cl₂ (2.22×10^{-2} g/L, path length = 10 mm).

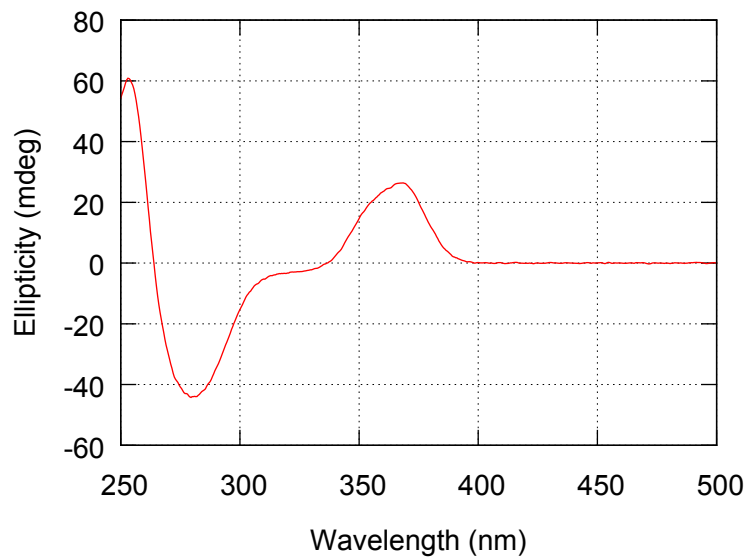


Figure S76. CD spectrum of **3(200)** in CH₂Cl₂ (2.22×10^{-2} g/L, path length = 10 mm).

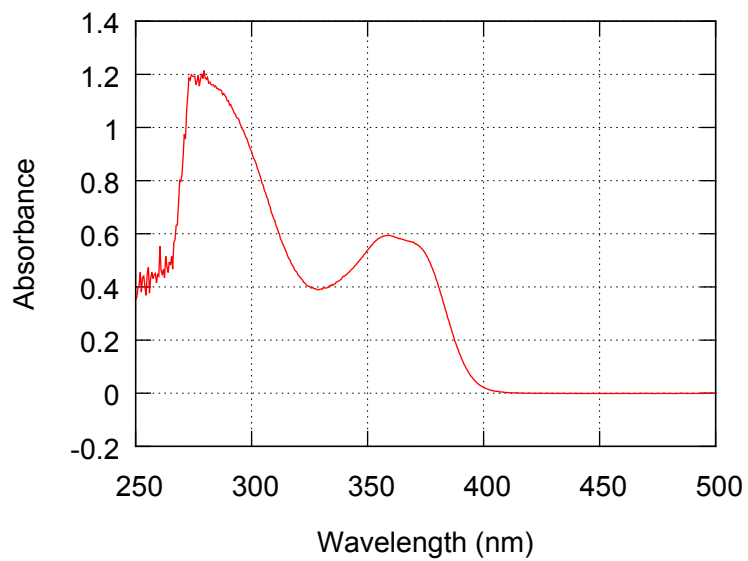


Figure S77. UV-vis absorption spectrum of **3(200)** in trichloroethylene (2.22×10^{-2} g/L, path length = 10 mm).

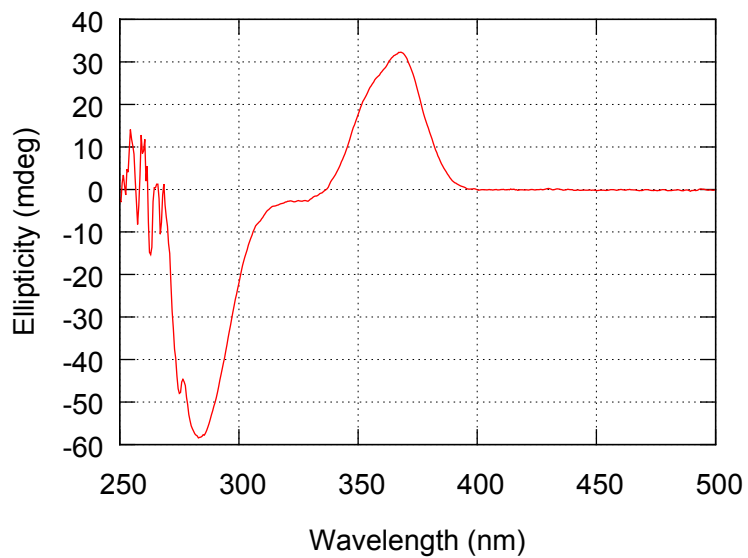


Figure S78. CD spectrum of **3(200)** in trichloroethylene (2.22×10^{-2} g/L, path length = 10 mm).

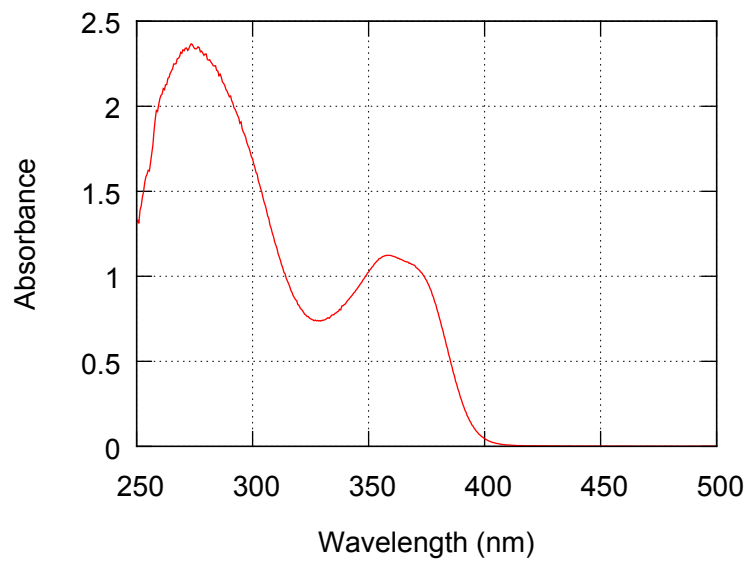


Figure S79. UV-vis absorption spectrum of **3(200)** in THF (4.44×10^{-2} g/L, path length = 10 mm).

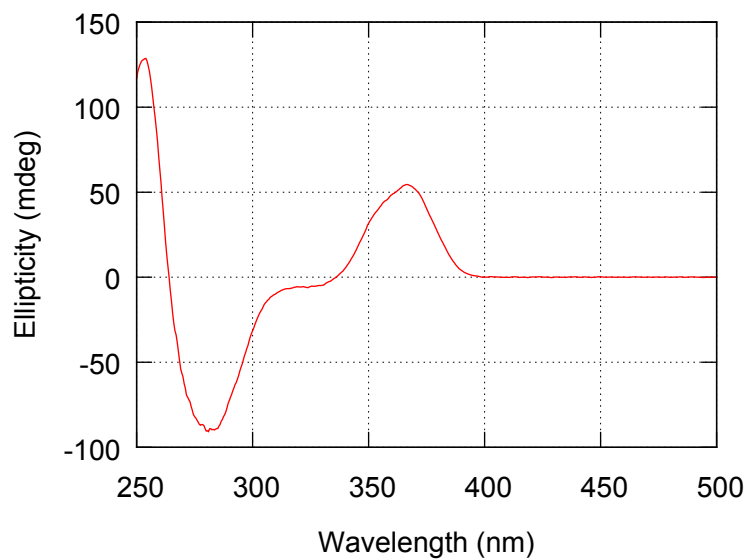


Figure S80. CD spectrum of **3(200)** in THF (4.44×10^{-2} g/L, path length = 10 mm).

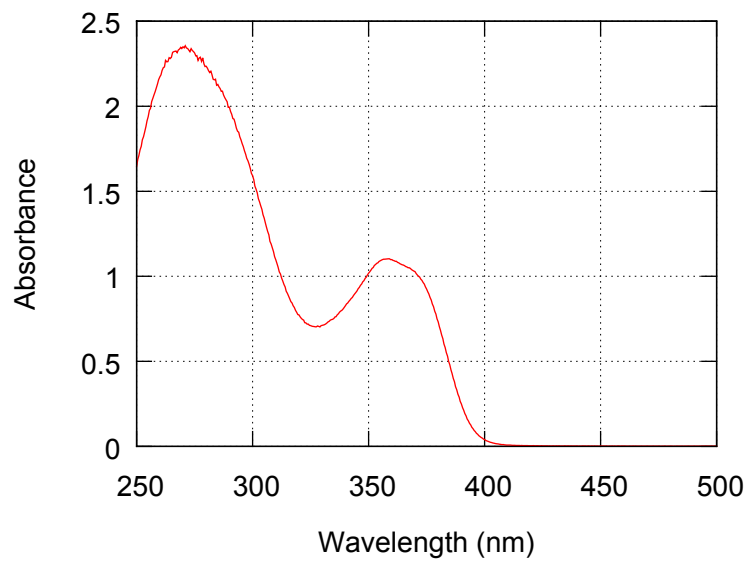


Figure S81. UV-vis absorption spectrum of **3(200)** in MTBE (4.44×10^{-2} g/L, path length = 10 mm).

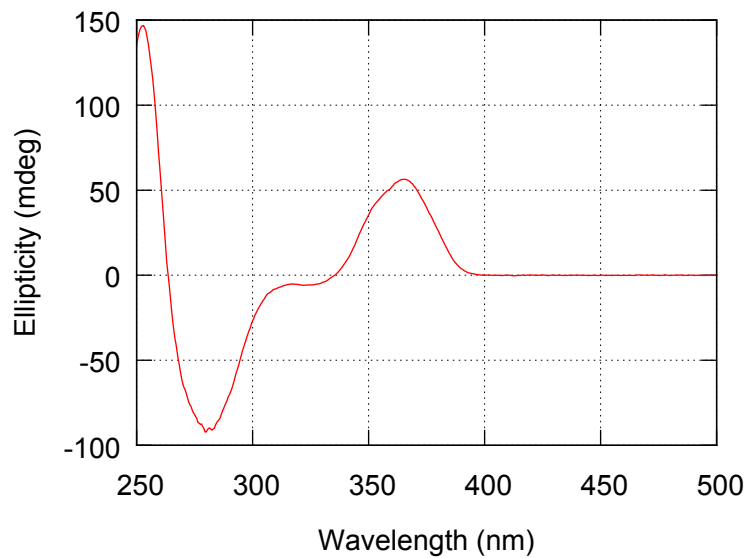


Figure S82. CD spectrum of **3(200)** in MTBE (4.44×10^{-2} g/L, path length = 10 mm).

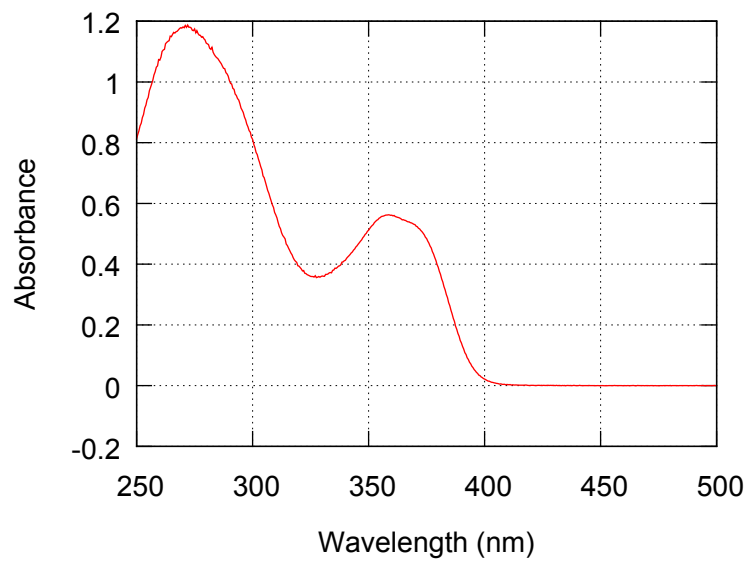


Figure S83. UV-vis absorption spectrum of **3(200)** in CPME (2.22×10^{-2} g/L, path length = 10 mm).

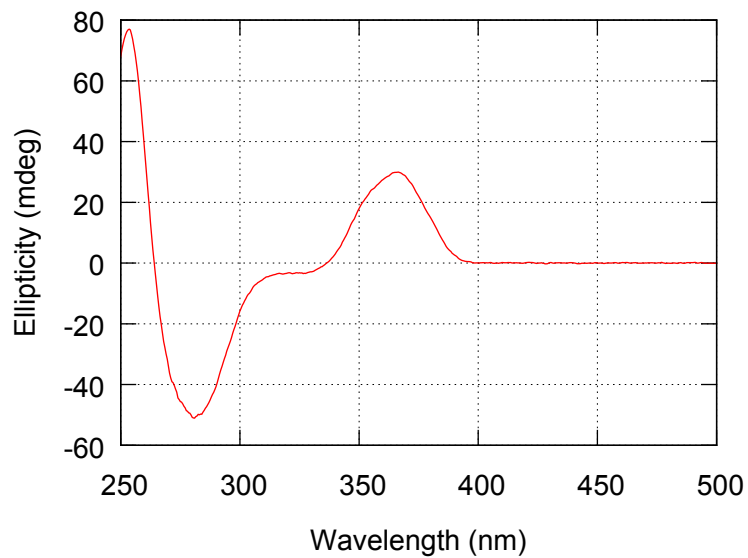


Figure S84. CD spectrum of **3(200)** in CPME (2.22×10^{-2} g/L, path length = 10 mm).

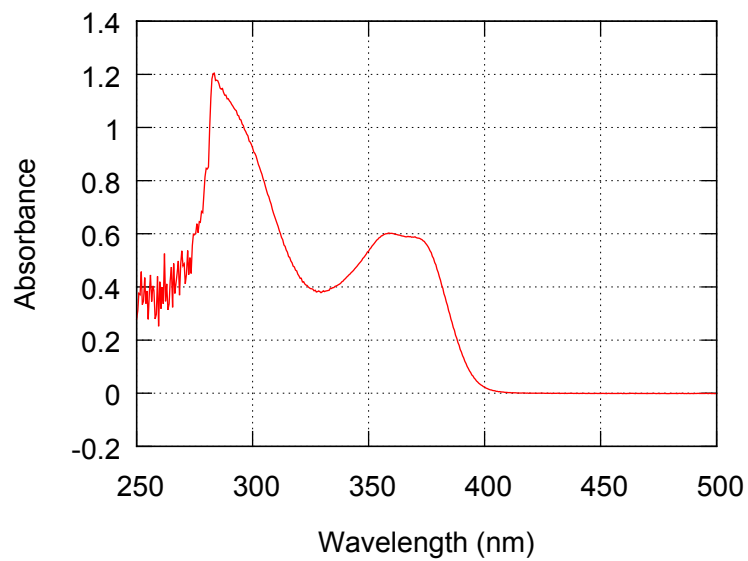


Figure S85. UV-vis absorption spectrum of **3(200)** in toluene (2.22×10^{-2} g/L, path length = 10 mm).

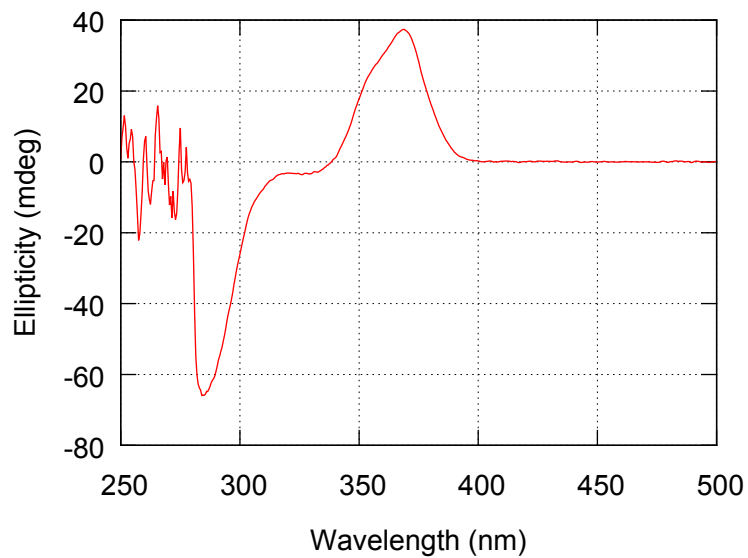


Figure S86. CD spectrum of **3(200)** in toluene (2.22×10^{-2} g/L, path length = 10 mm).

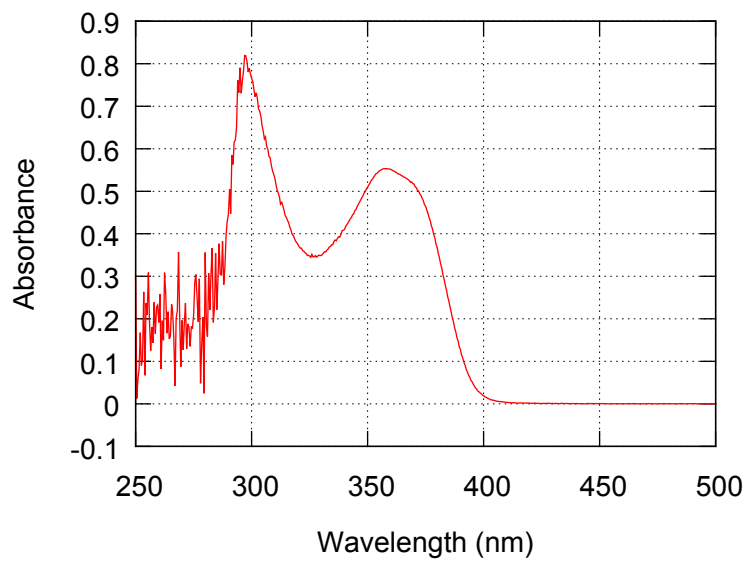


Figure S87. UV-vis absorption spectrum of **3(200)** in NEt₃ (2.22×10^{-2} g/L, path length = 10 mm).

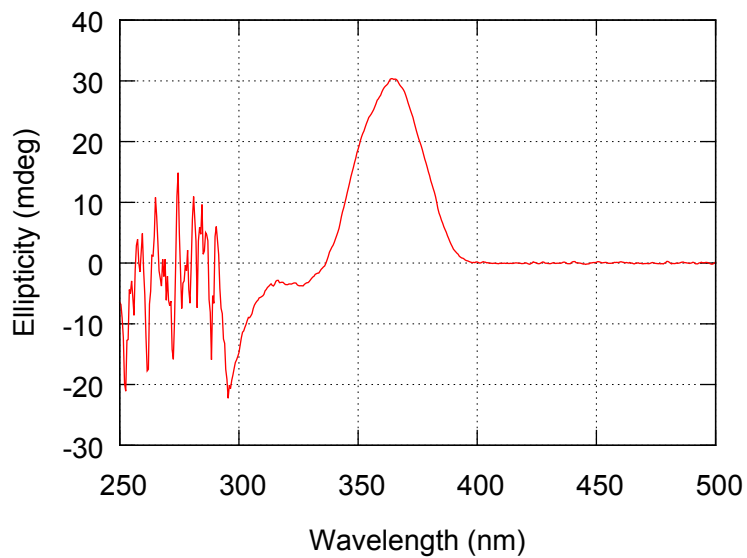


Figure S88. CD spectrum of **3(200)** in NEt₃ (2.22×10^{-2} g/L, path length = 10 mm).

3 PL Spectra of New Compounds

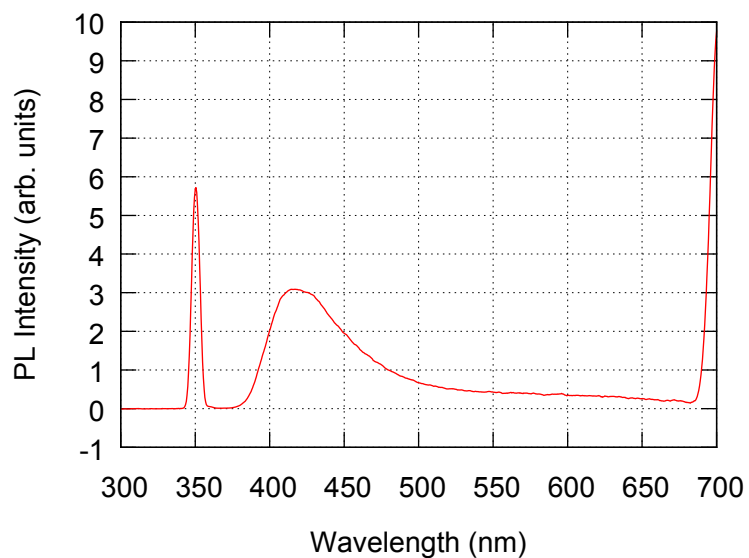


Figure S89. PL spectrum of **1(200)** in CHCl_3 (1.6×10^{-2} g/L, excited at 350.0 nm).

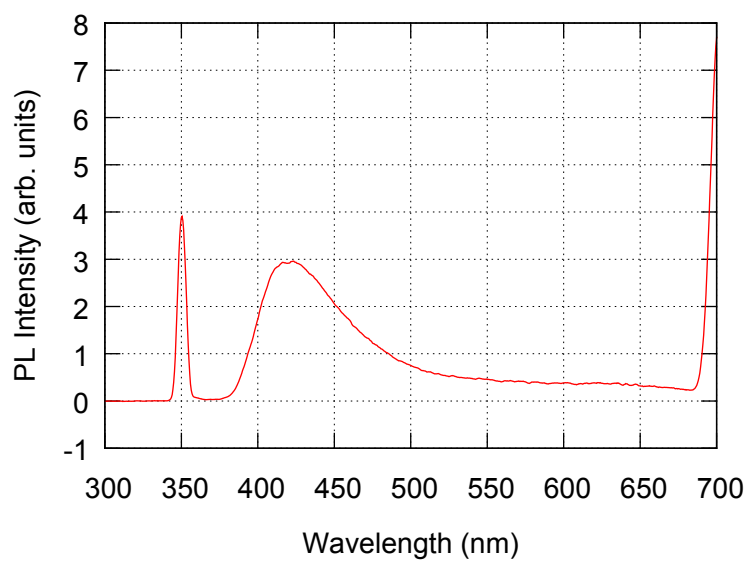


Figure S90. PL spectrum of **1(200)** in 1,1,1-TCE (1.6×10^{-2} g/L, excited at 350.0 nm).

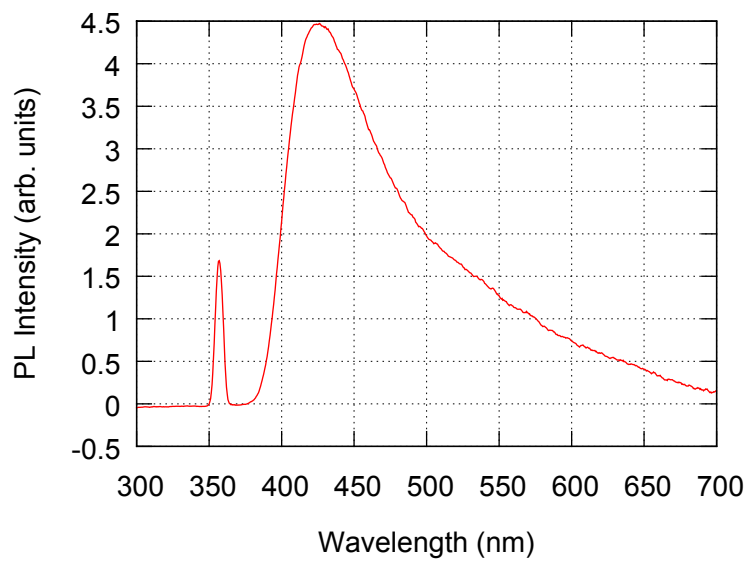


Figure S91. PL spectrum of **2(200)** in CHCl_3 (2.36×10^{-2} g/L, excited at 356.5 nm).

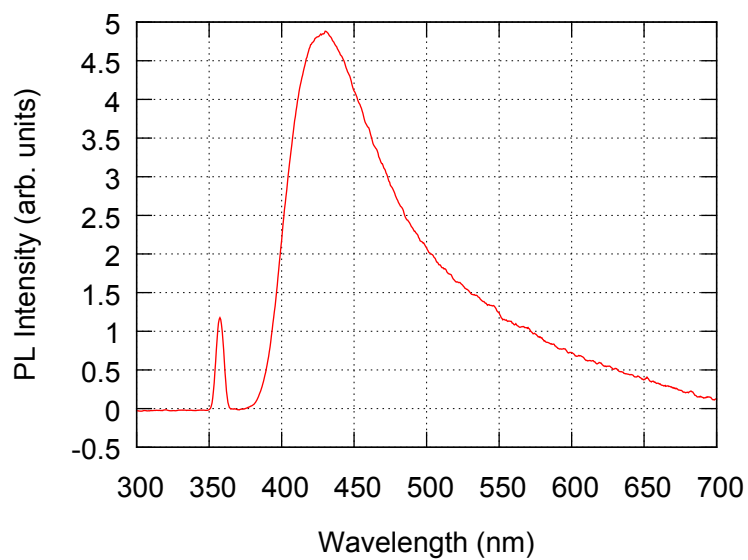


Figure S92. PL spectrum of **2(200)** in 1,1,1-TCE (2.36×10^{-2} g/L, excited at 357.0 nm).

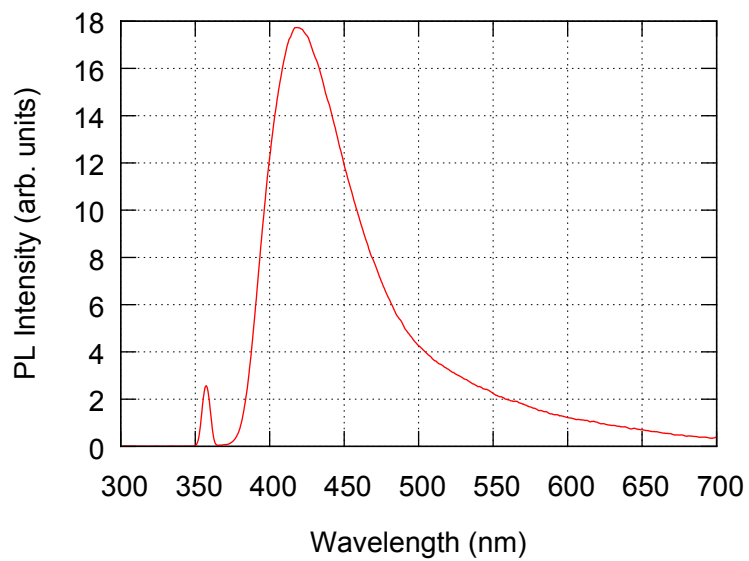


Figure S93. PL spectrum of **3(200)** in CHCl₃ (2.12×10^{-2} g/L, excited at 356.5 nm).

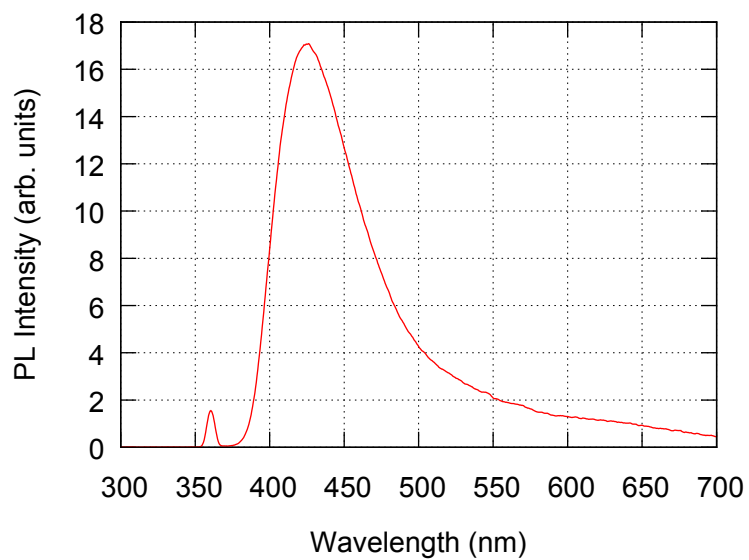


Figure S94. PL spectrum of **3(200)** in 1,1,1-TCE (2.12×10^{-2} g/L, excited at 359.5 nm).

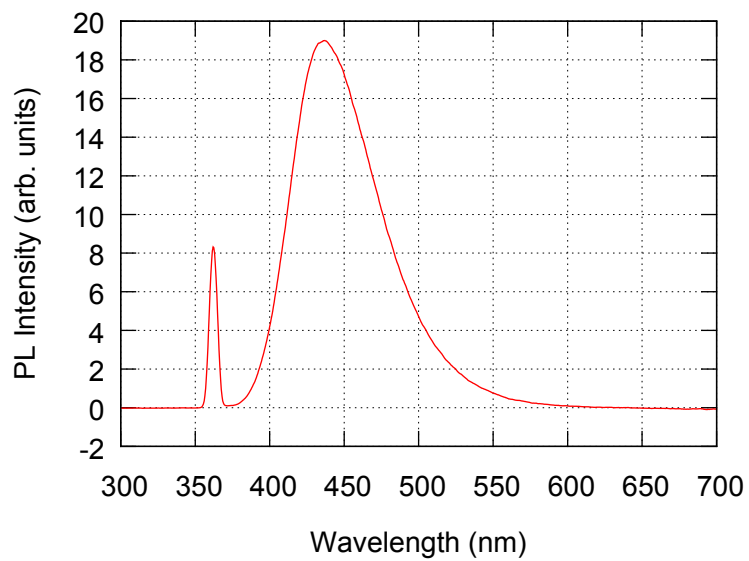


Figure S95. PL spectrum of **4** in CHCl₃ (4.82×10^{-3} g/L, excited at 362.0 nm).

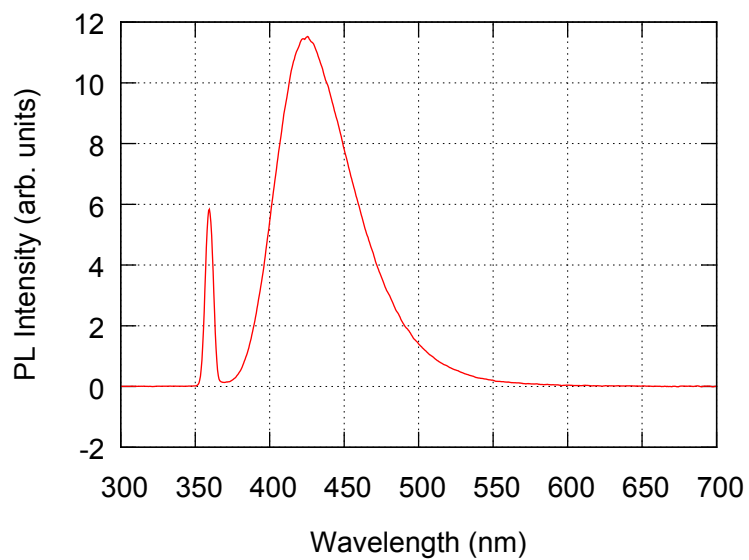


Figure S96. PL spectrum of **4** in 1,1,1-TCE (4.82×10^{-3} g/L, excited at 359.5 nm).