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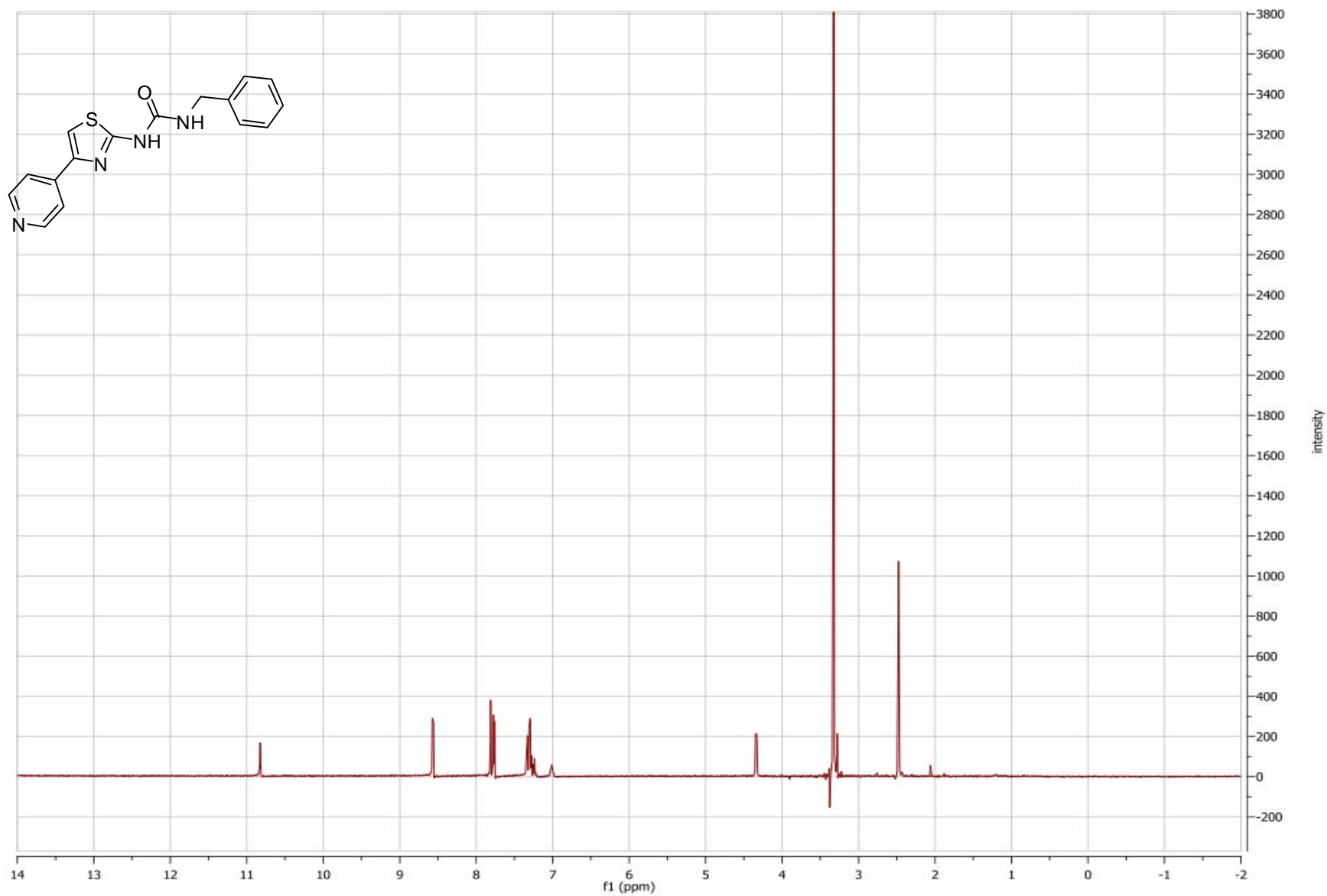
Pyridylthiazole-Based Ureas as Inhibitors of Rho Associated Protein Kinases (ROCK1 and 2)

Roberta Pireddu,¹ Kara Forinash,¹ Nan N. Sun,² Mathew P. Martin,¹ Shen-Shu Sung,² Brian Alexander,¹ Jin-Yi Zhu,¹ Wayne C. Guida,^{1,2,4} Ernst
Schönbrunn,^{1,3} Saïd M. Sebtì^{1,3,5} and Nicholas J. Lawrence^{1,3*}

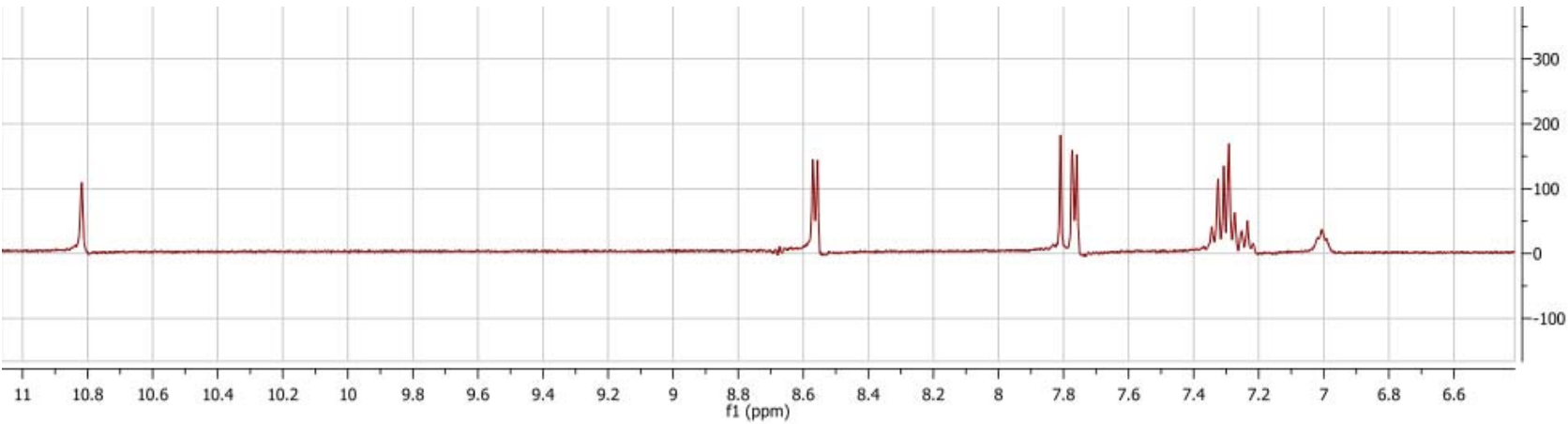
From The ¹Department of Drug Discovery, and ²Chemical Biology Core Facility, Moffitt Cancer Center; Departments of ³Oncological Sciences,
⁴Chemistry and ⁵Molecular Medicine, University of South Florida, Tampa, Florida, 33612

¹H NMR Spectra

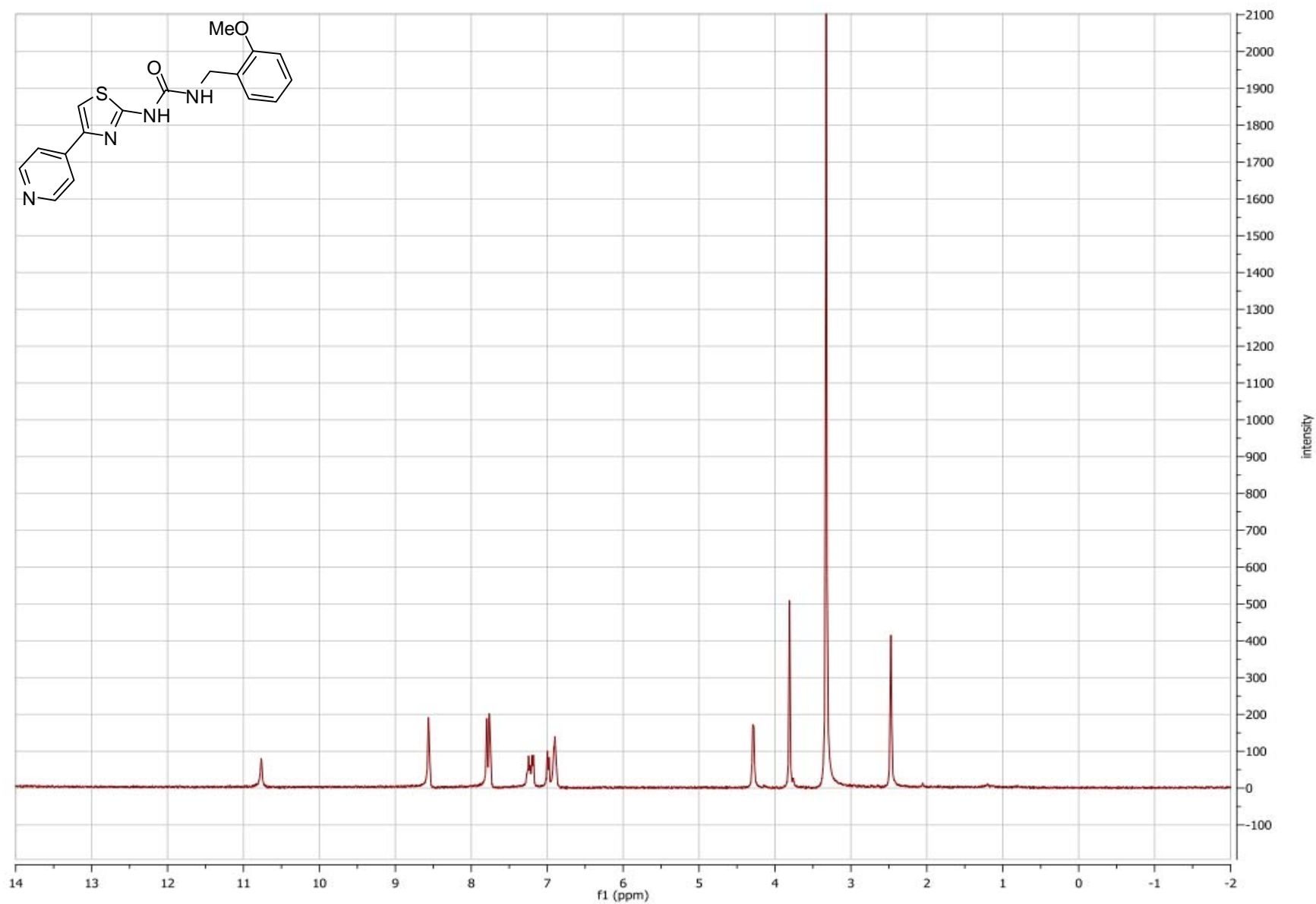
^1H NMR (DMSO- d_6) spectrum of **5a**



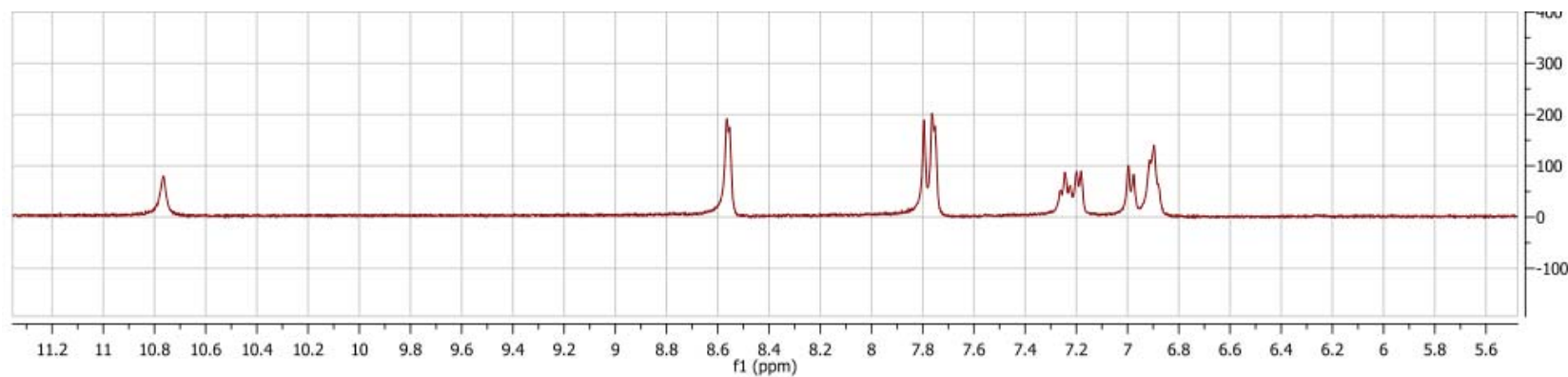
Expansion of the aromatic region of **5a**



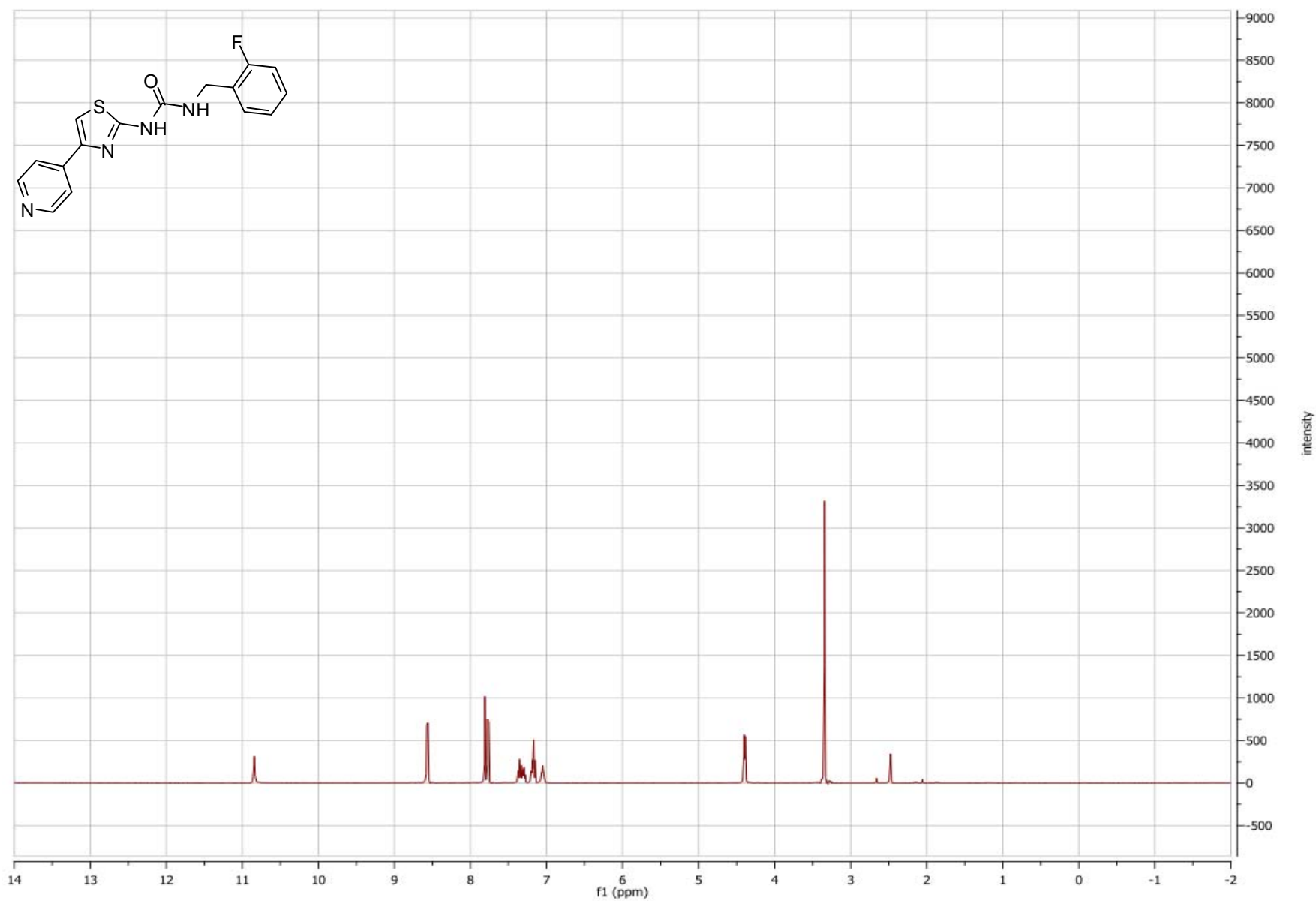
^1H NMR (DMSO- d_6) spectrum of **5e**



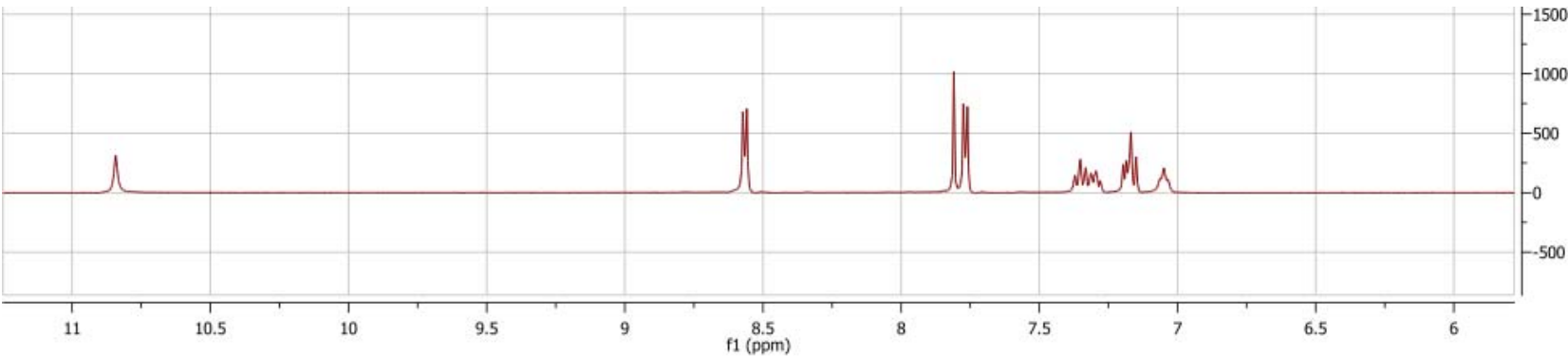
Expansion of the aromatic region of **5e**



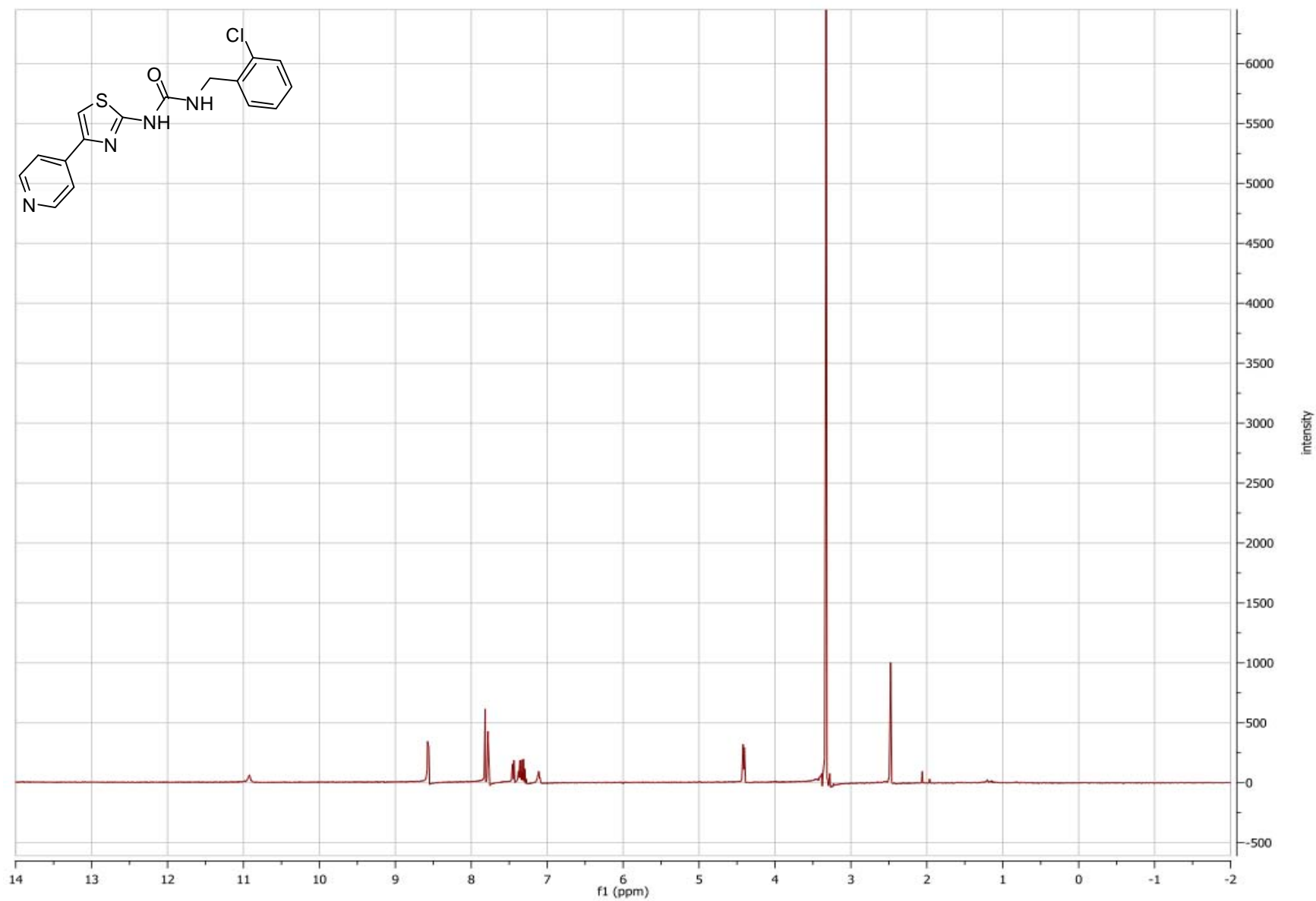
¹H NMR (DMSO-d₆) spectrum of **5r**



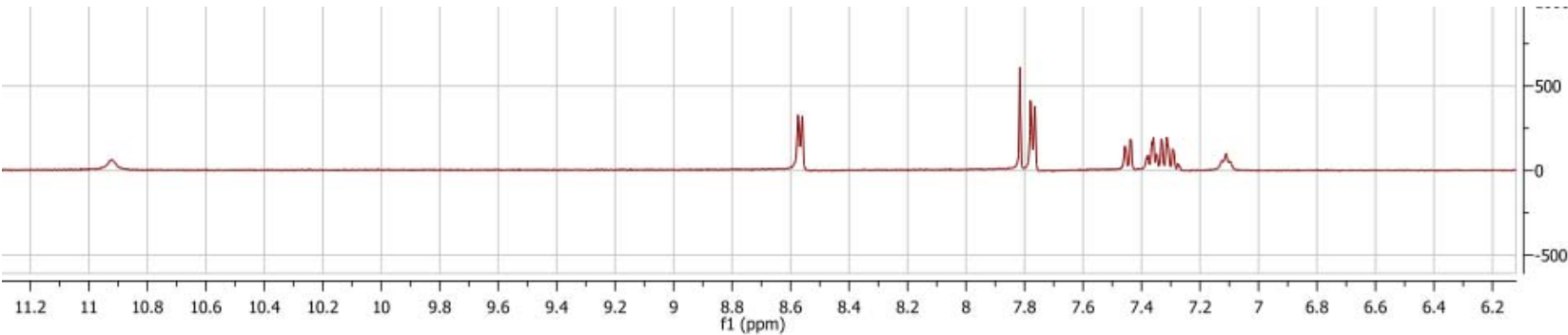
Expansion of the aromatic region of **5r**



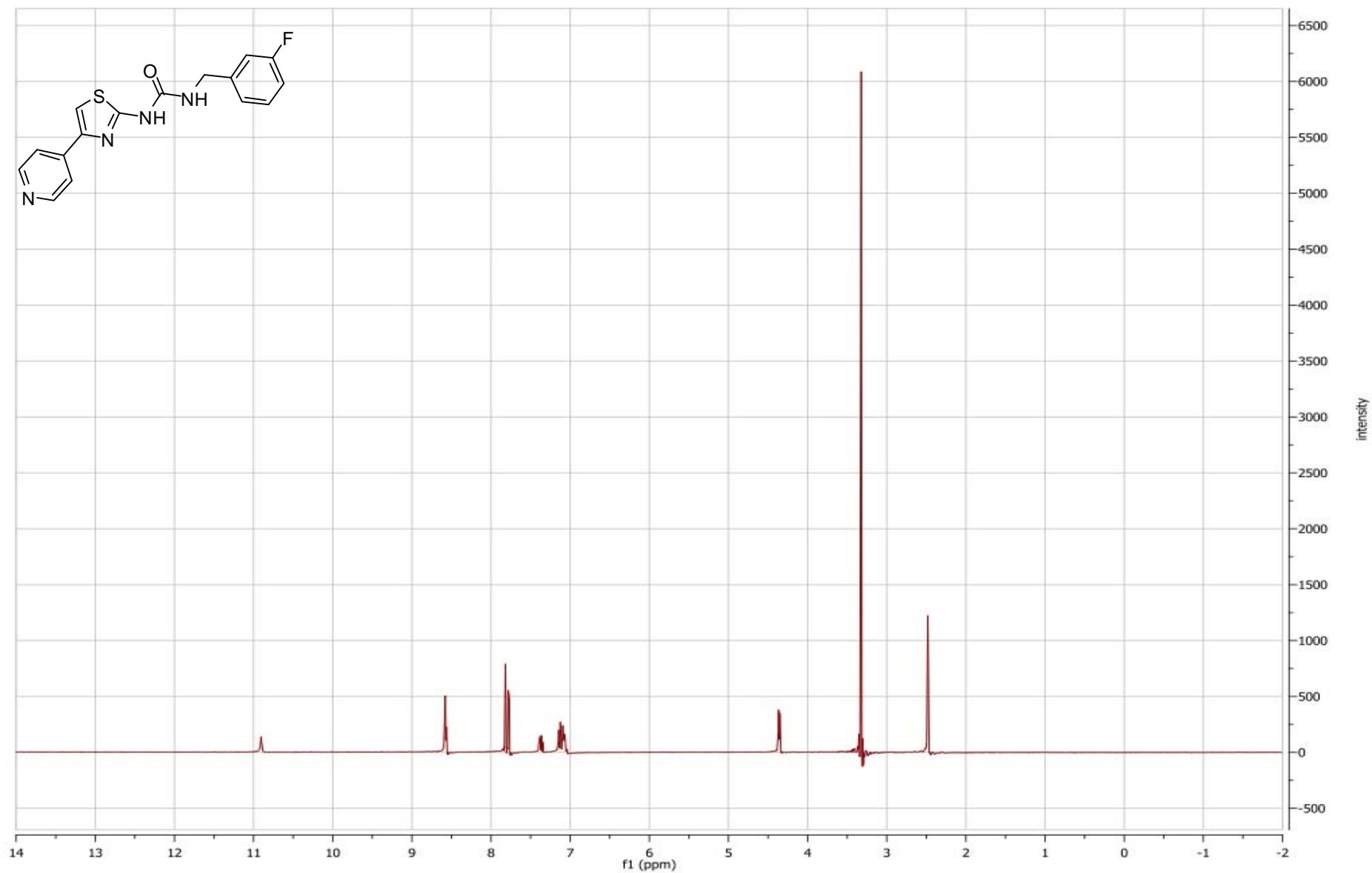
^1H NMR (DMSO- d_6) spectrum of **5u**



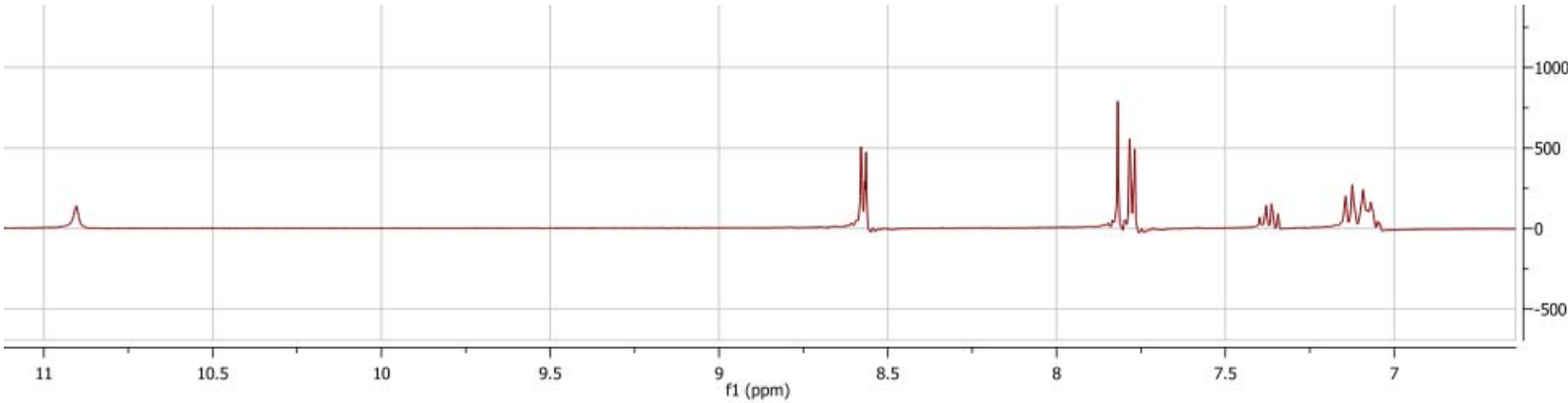
Expansion of the aromatic region of **5u**



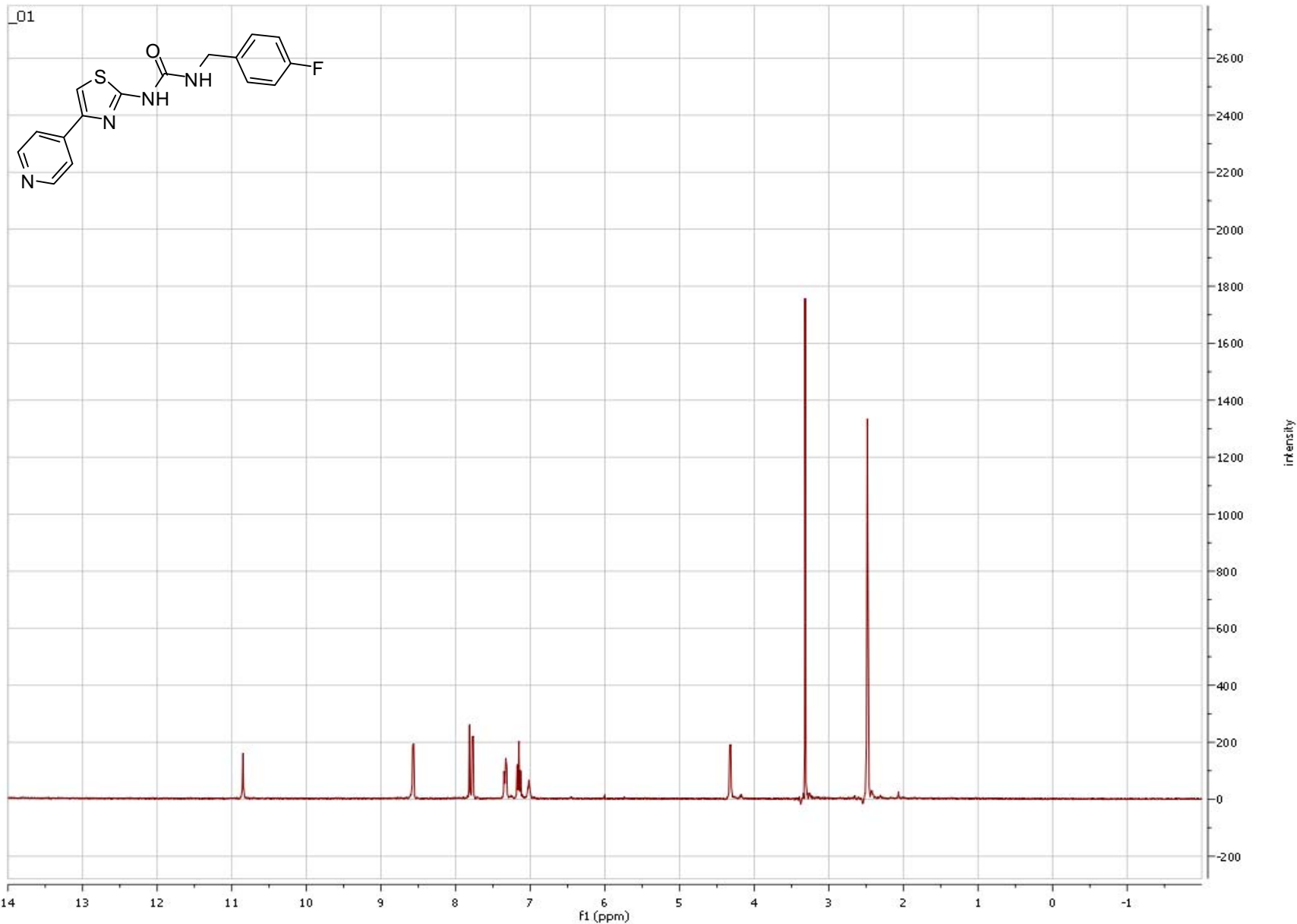
^1H NMR (DMSO- d_6) spectrum of **5q**



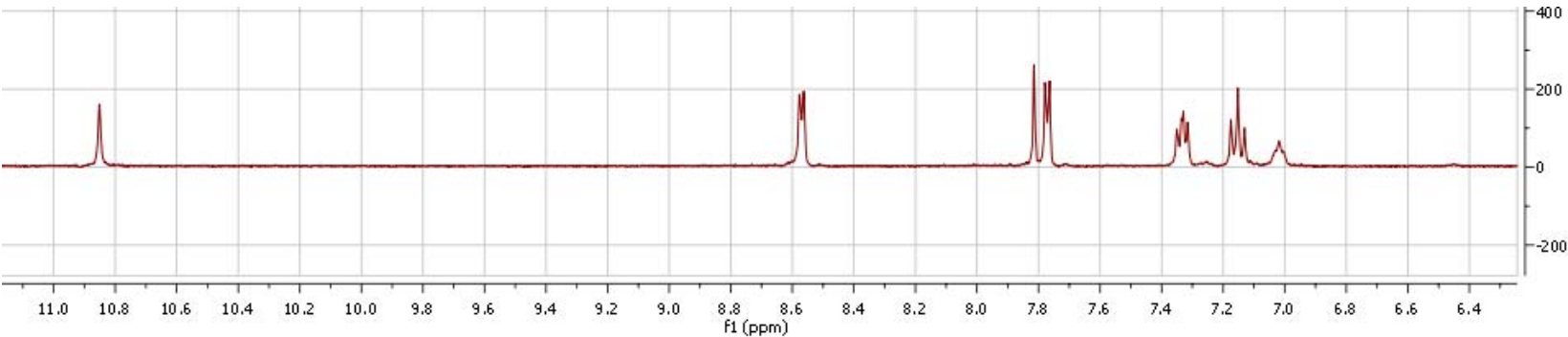
Expansion of the aromatic region of **5q**



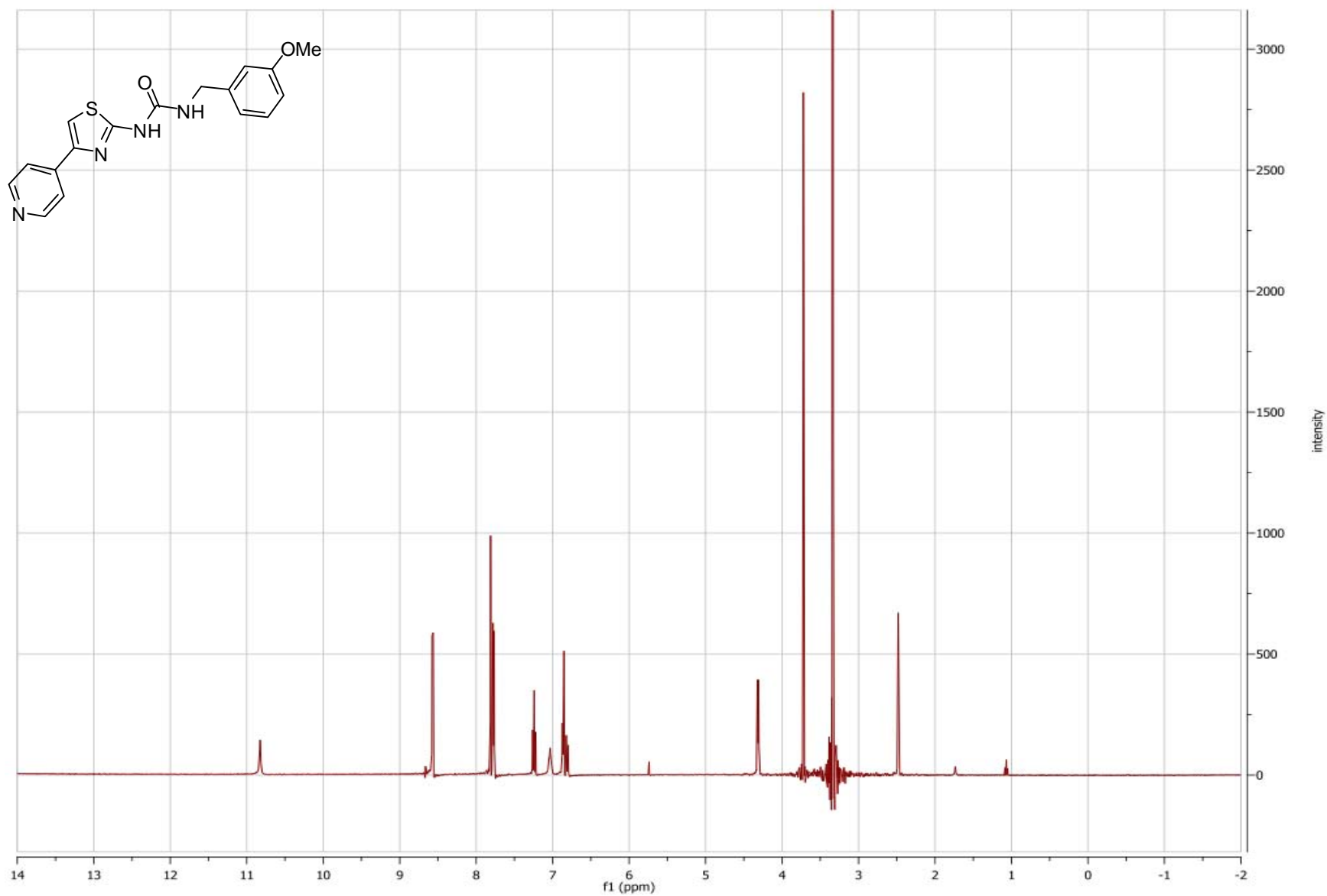
¹H NMR (DMSO-d₆) spectrum of **3s**



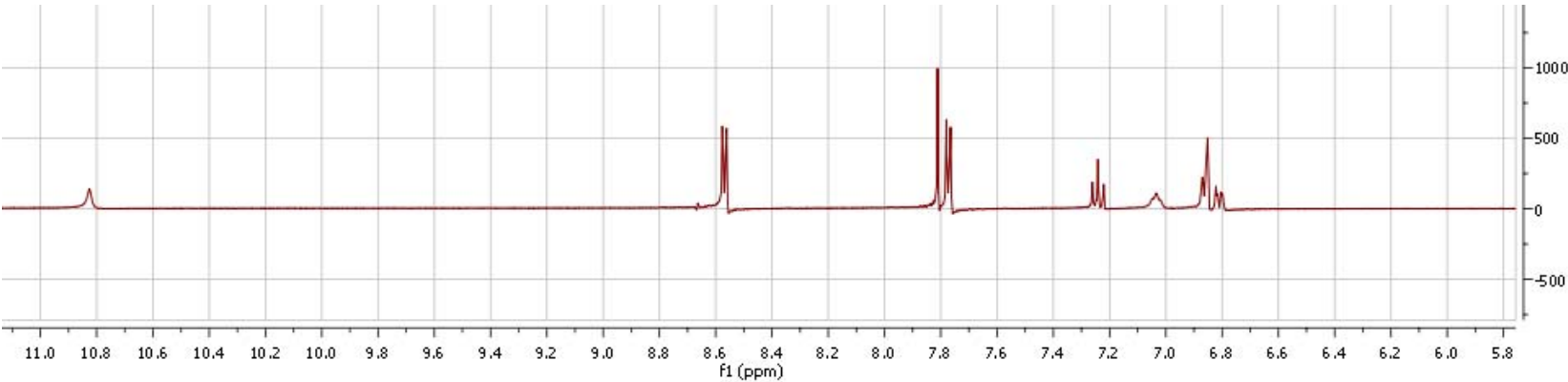
Expansion of the aromatic region of **3s**



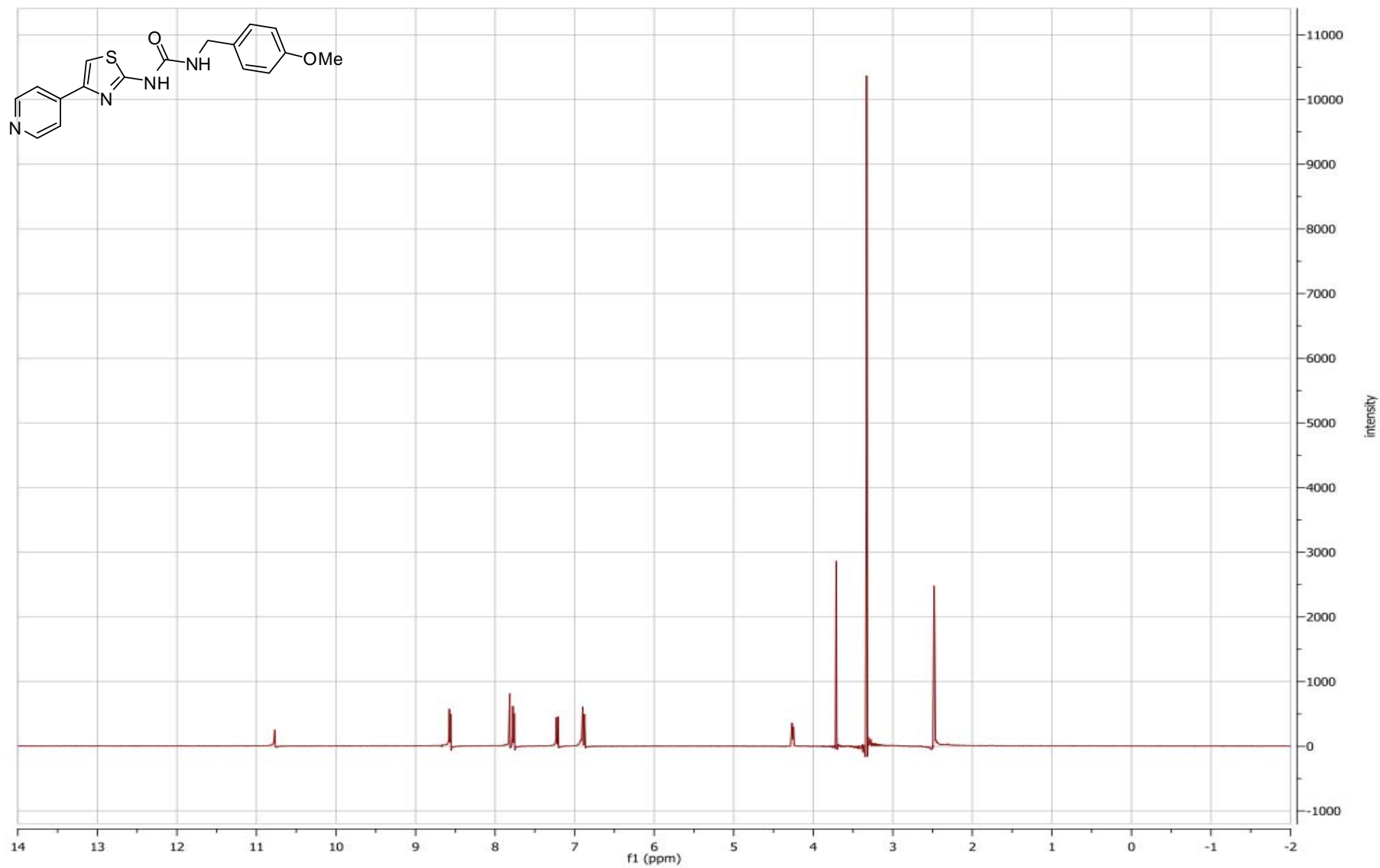
^1H NMR (DMSO- d_6) spectrum of **5b**



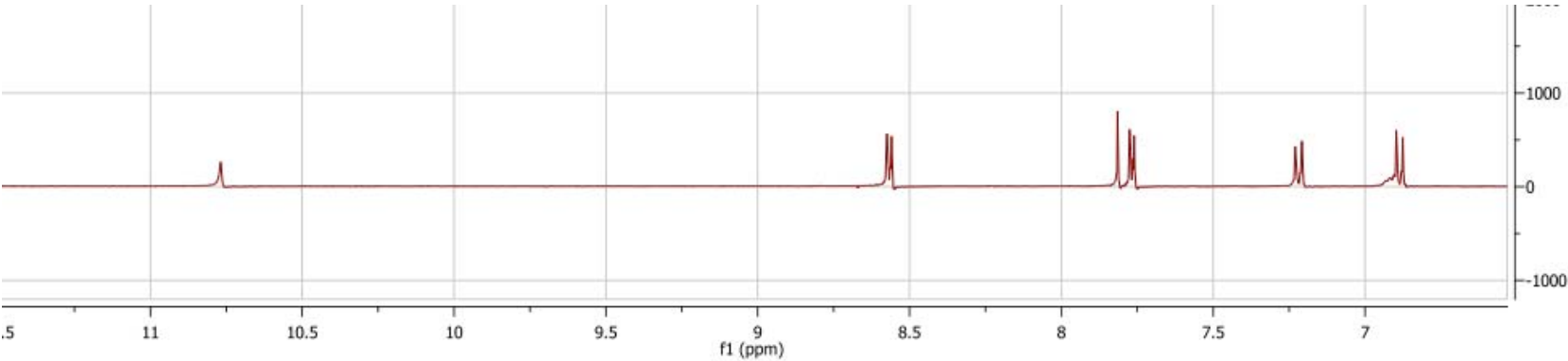
Expansion of the aromatic region of **5b**



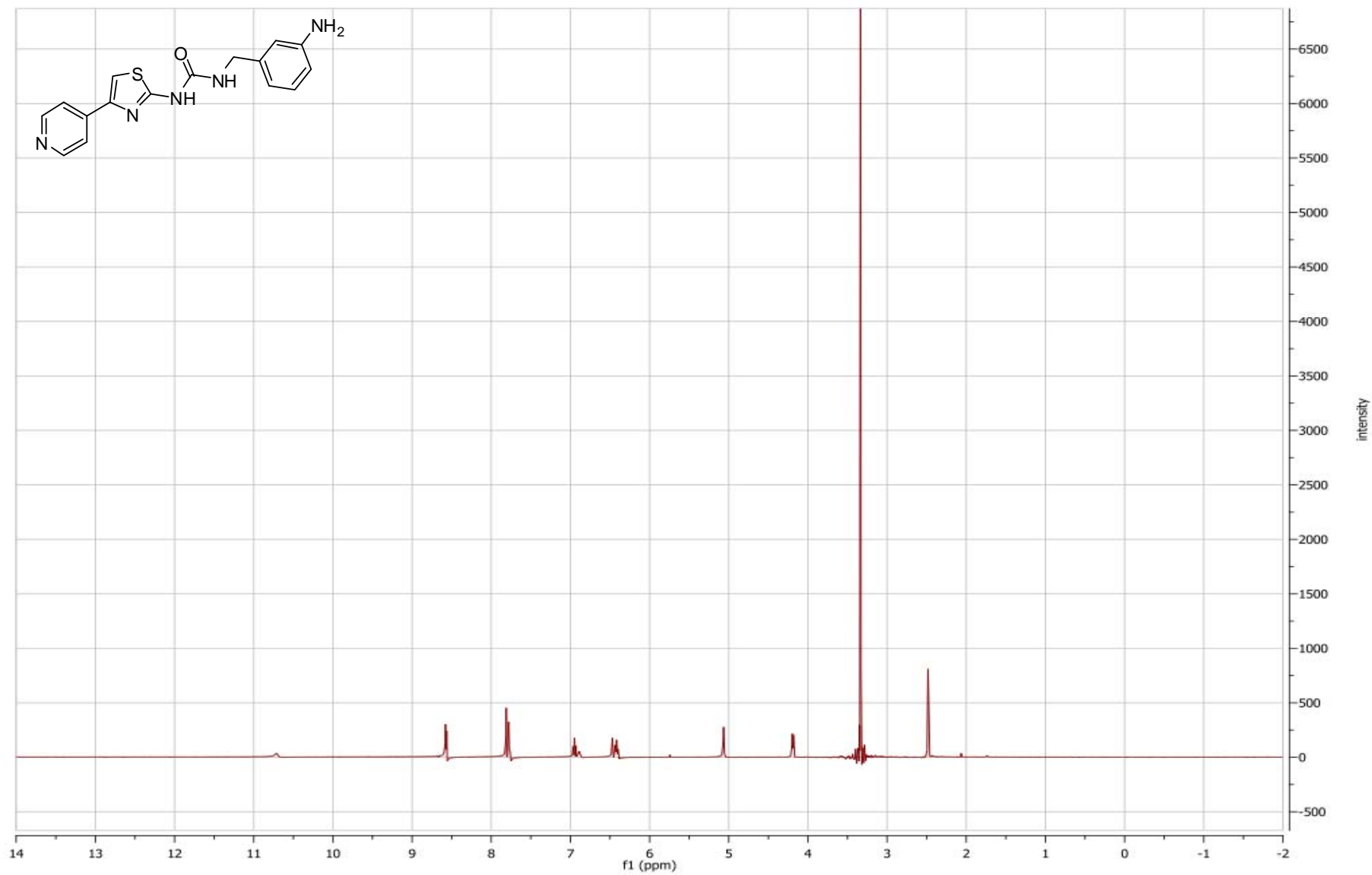
^1H NMR (DMSO- d_6) spectrum of **5d**



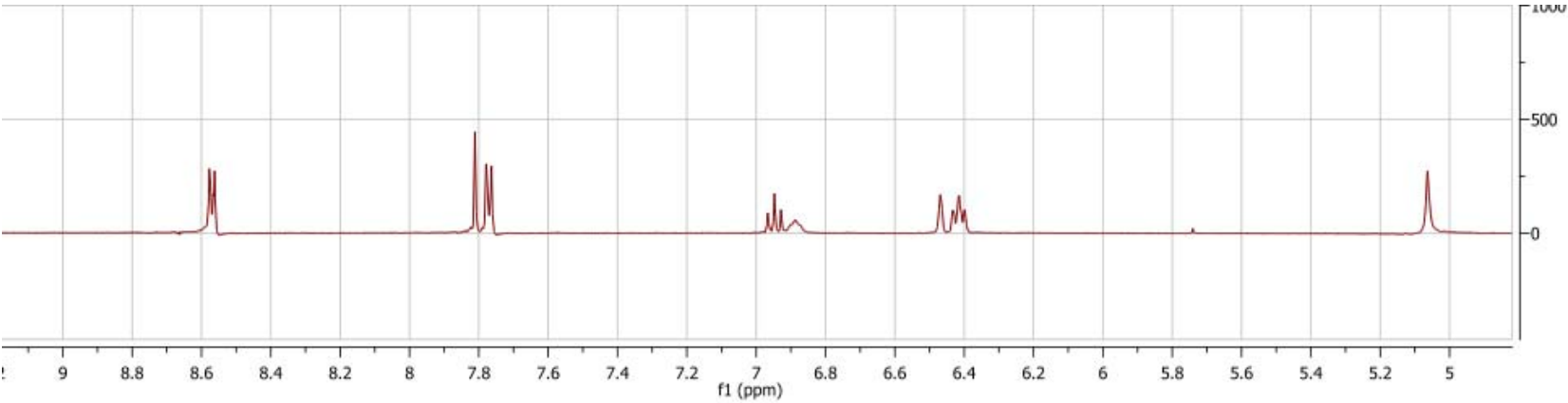
Expansion of the aromatic region of **5d**



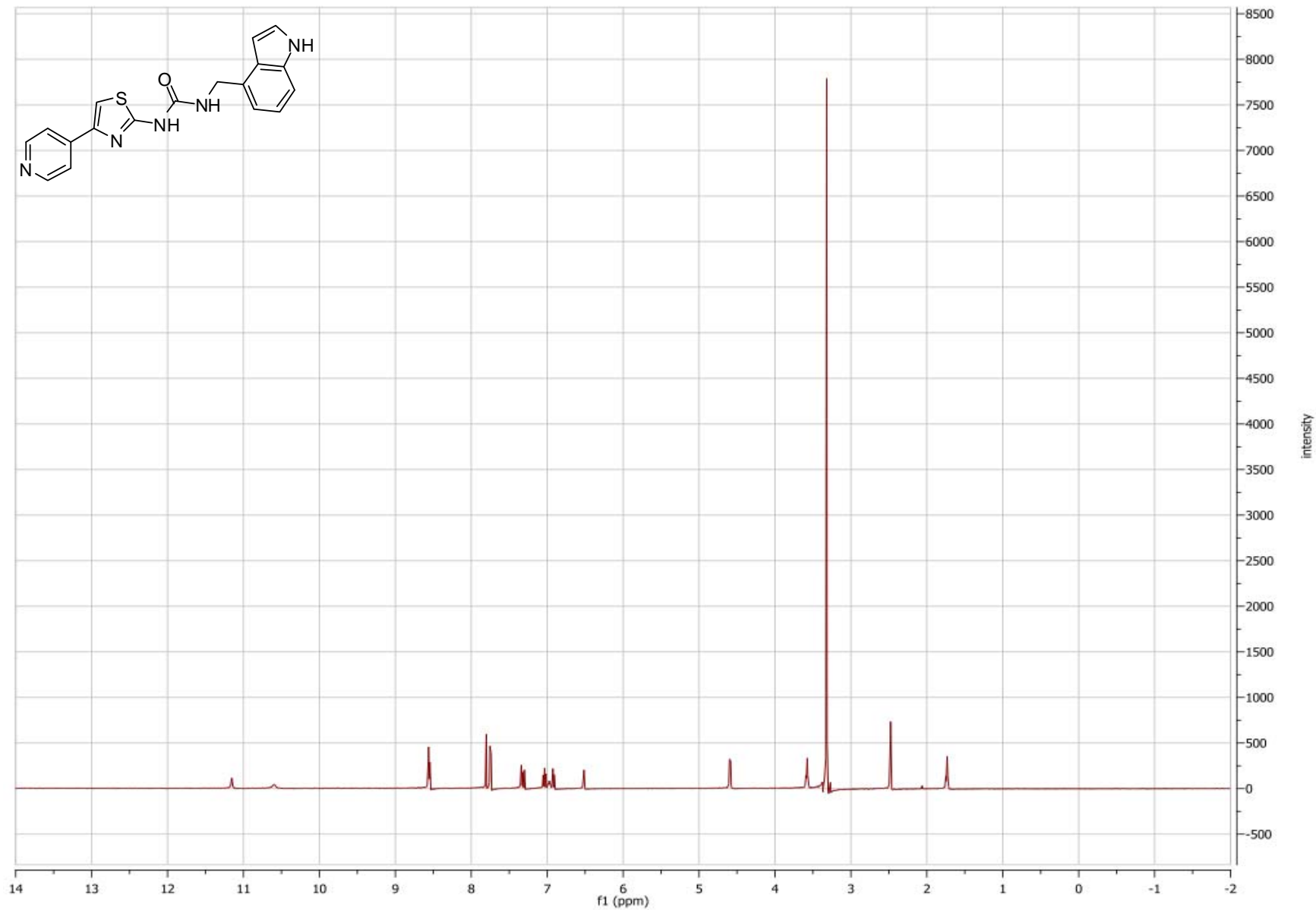
^1H NMR (DMSO- d_6) spectrum of **5e**



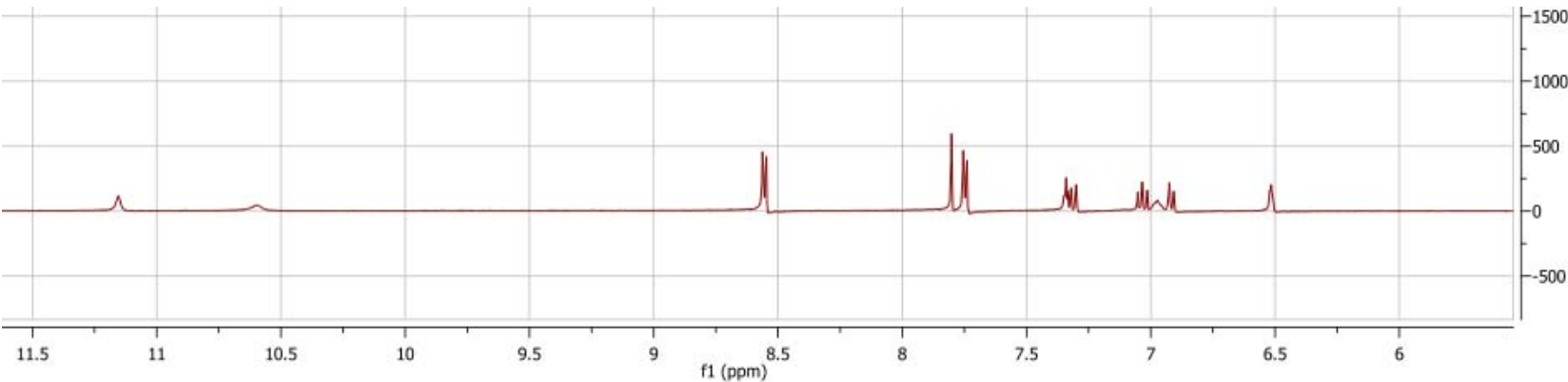
Expansion of the aromatic region of **5e**



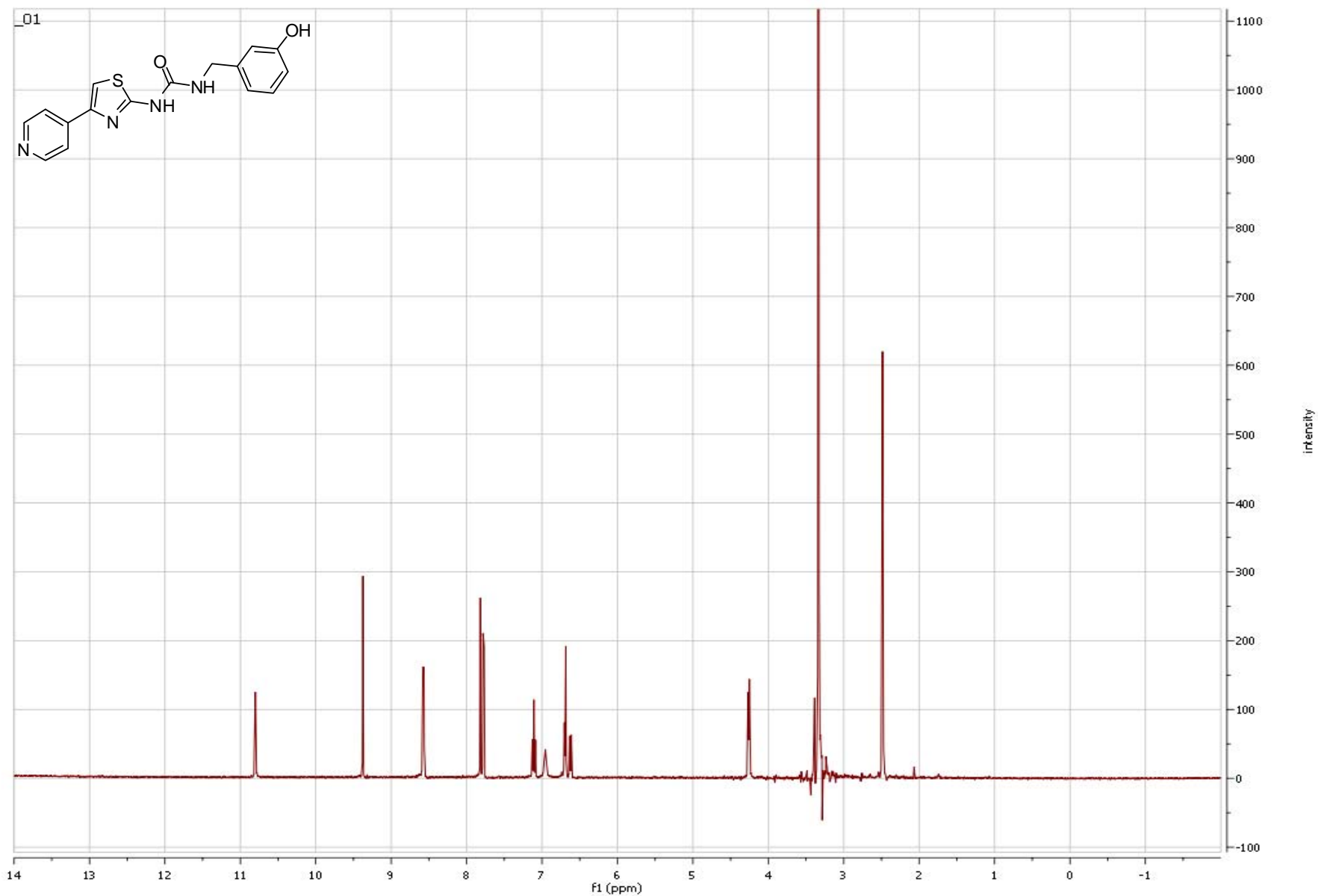
^1H NMR (DMSO- d_6) spectrum of **5f**



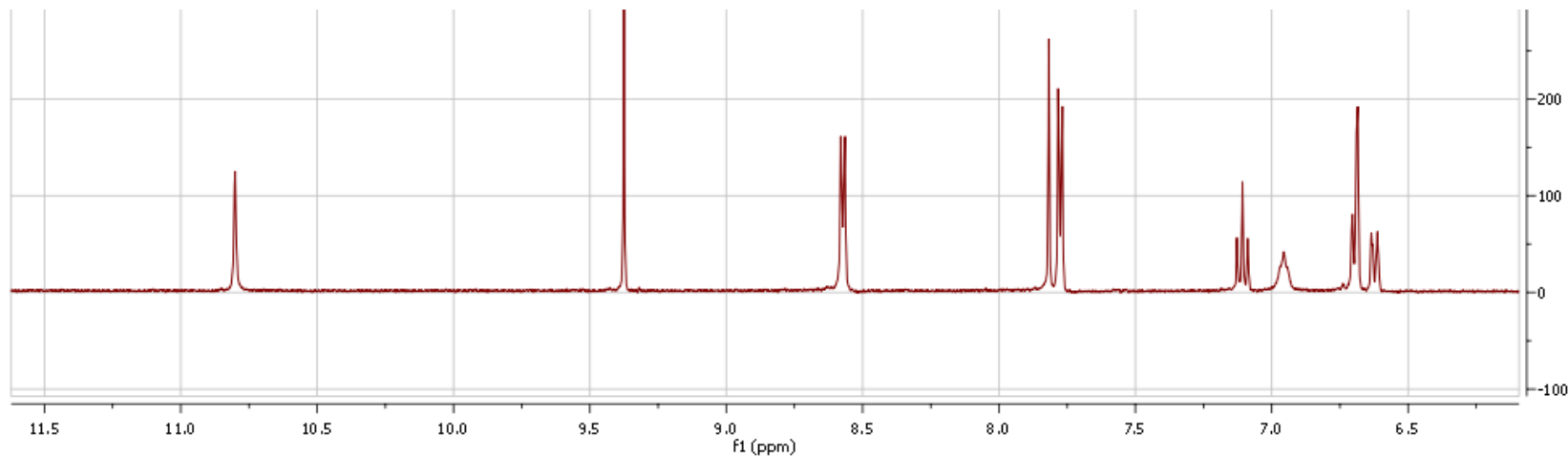
Expansion of the aromatic region of **5f**



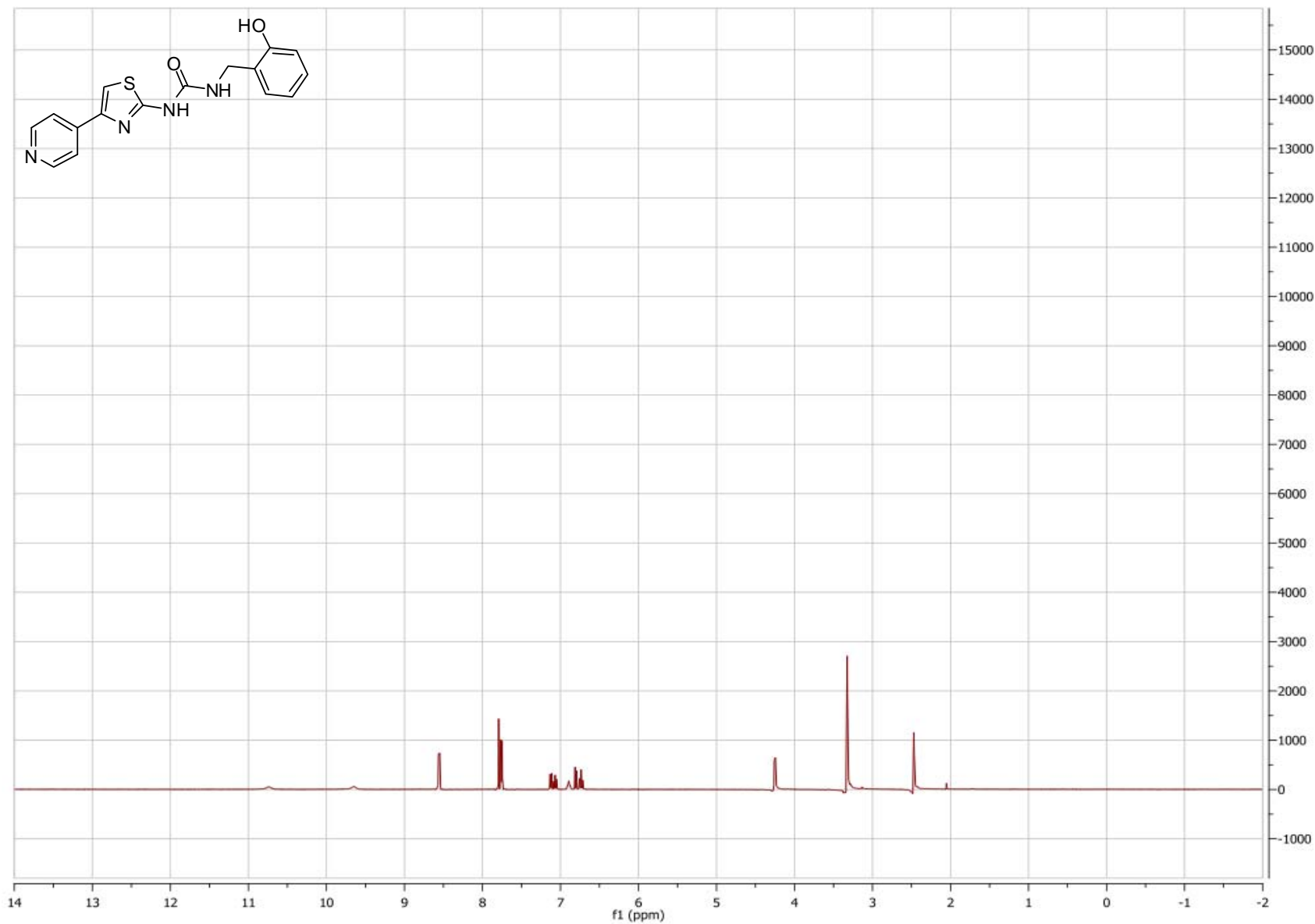
¹H NMR (DMSO-d₆) spectrum of **5g**



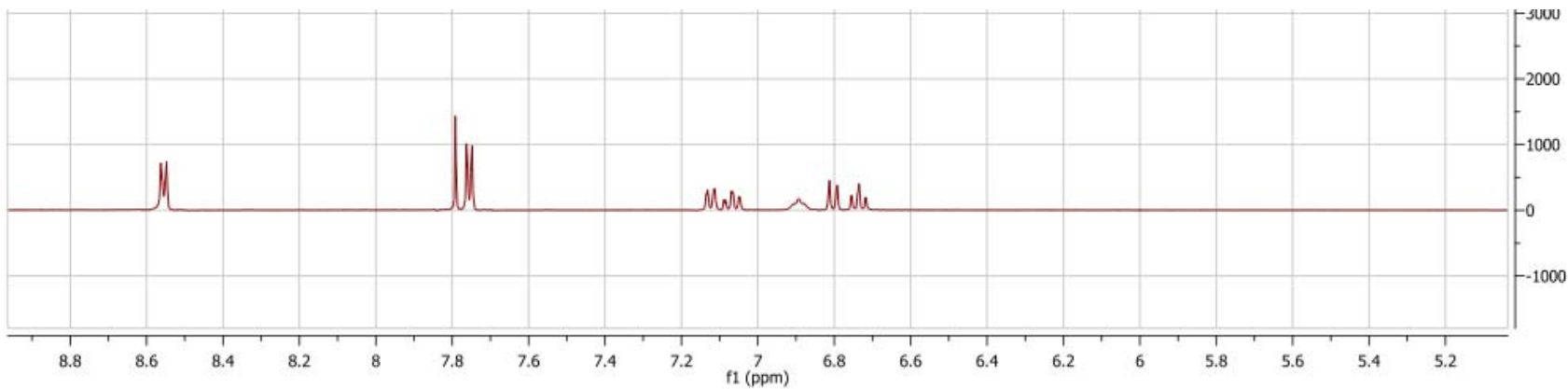
Expansion of the aromatic region of **5g**



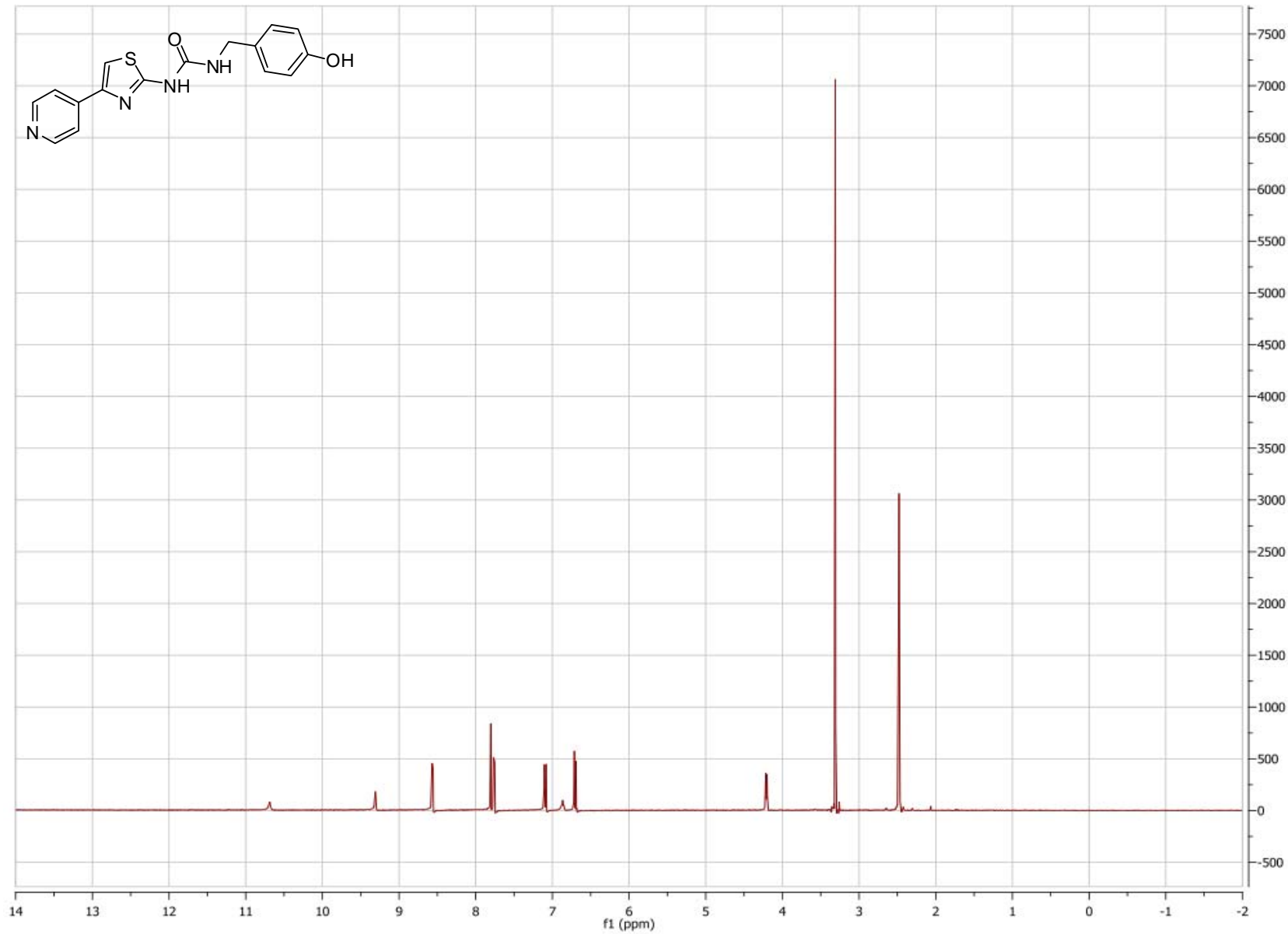
¹H NMR (DMSO-d₆) spectrum of **5h**



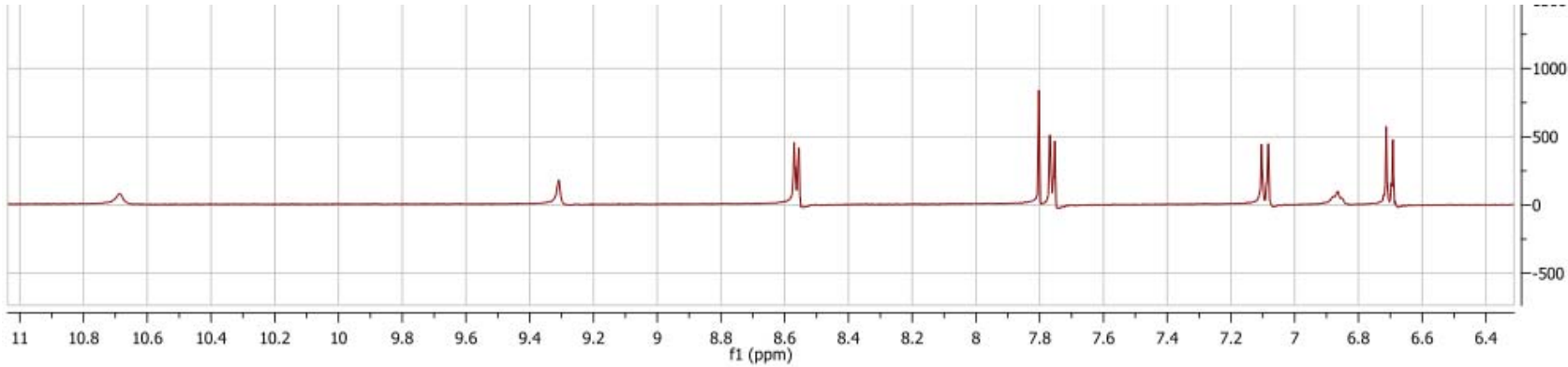
Expansion of the aromatic region of **5h**



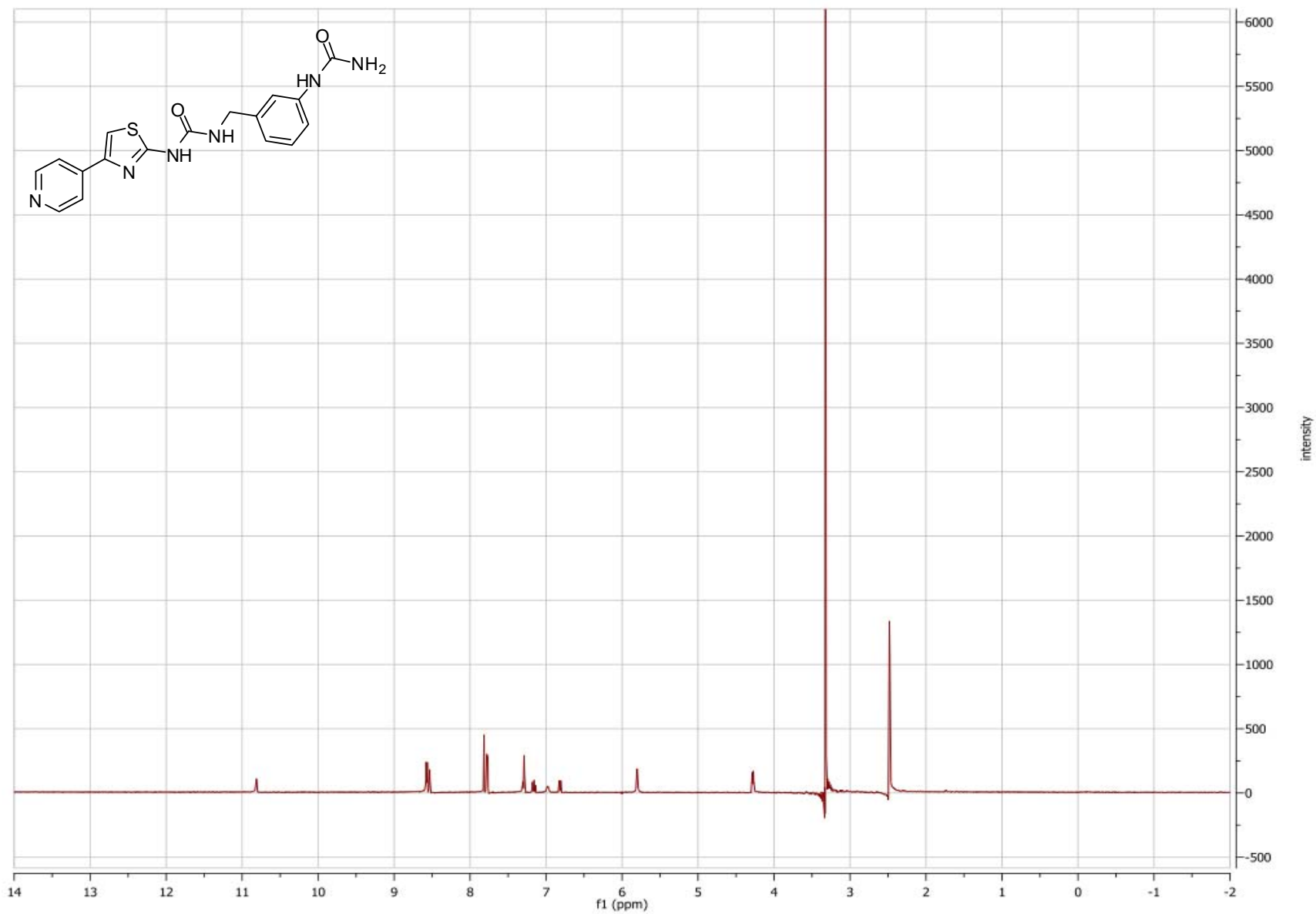
^1H NMR (DMSO- d_6) spectrum of **5i**



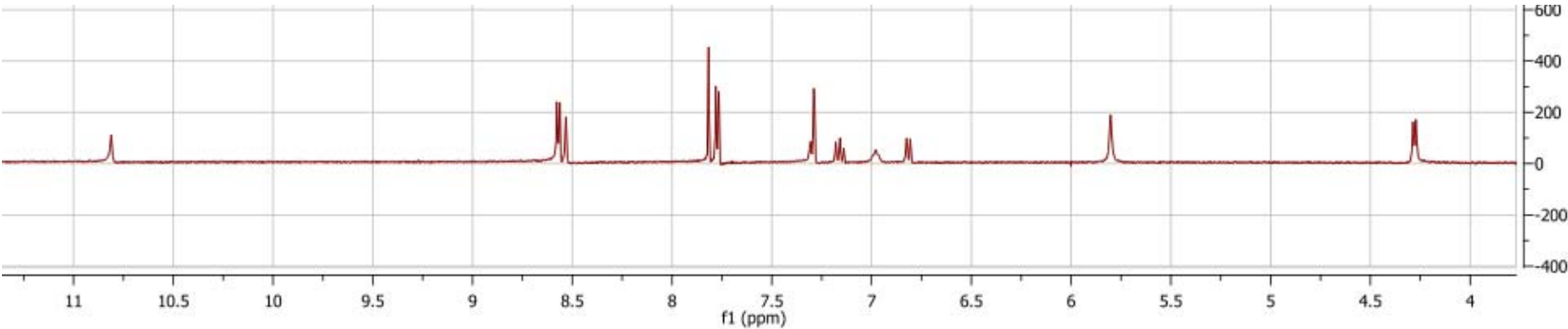
Expansion of the aromatic region of **5i**



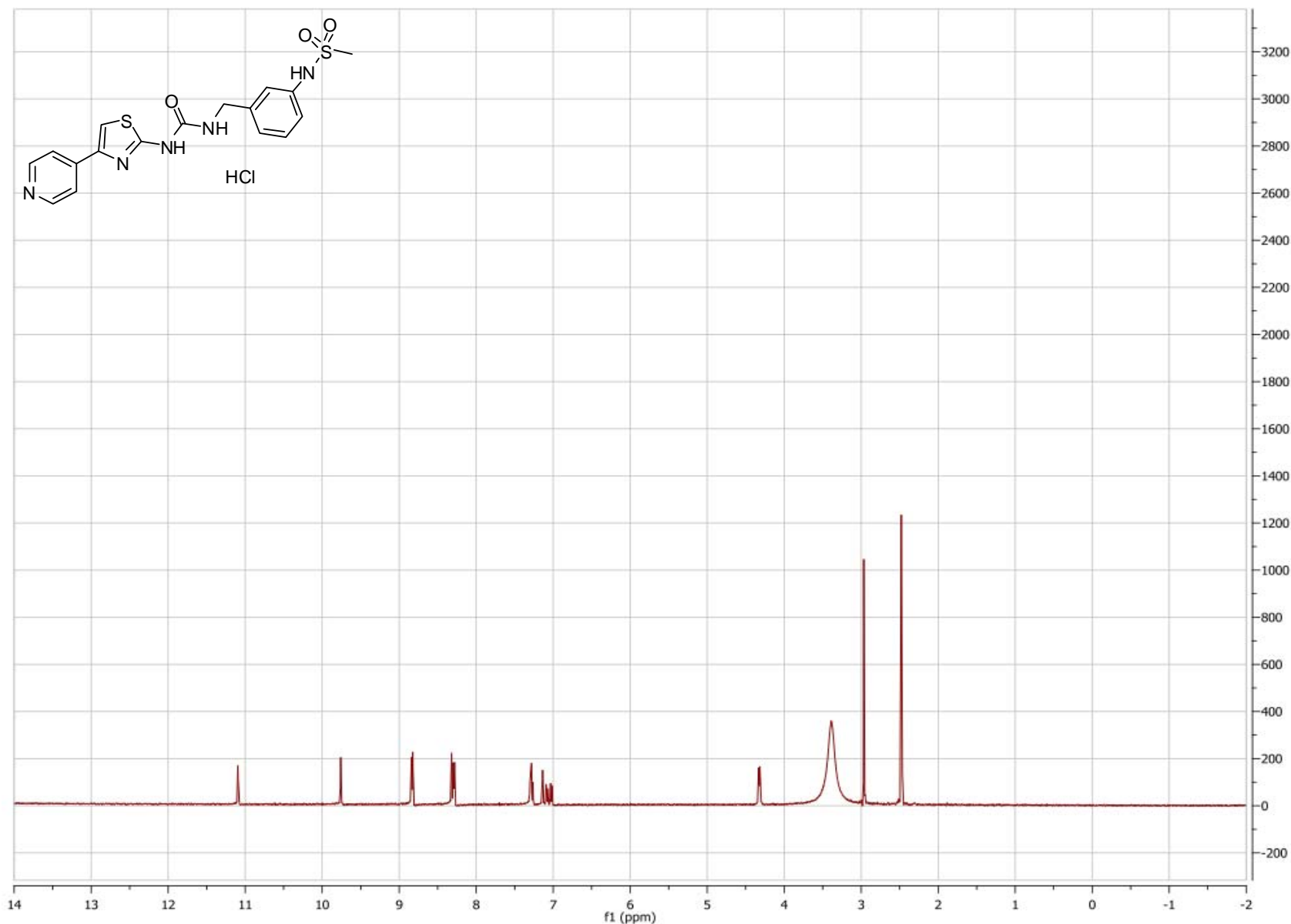
¹H NMR (DMSO-*d*₆) spectrum of **5j**



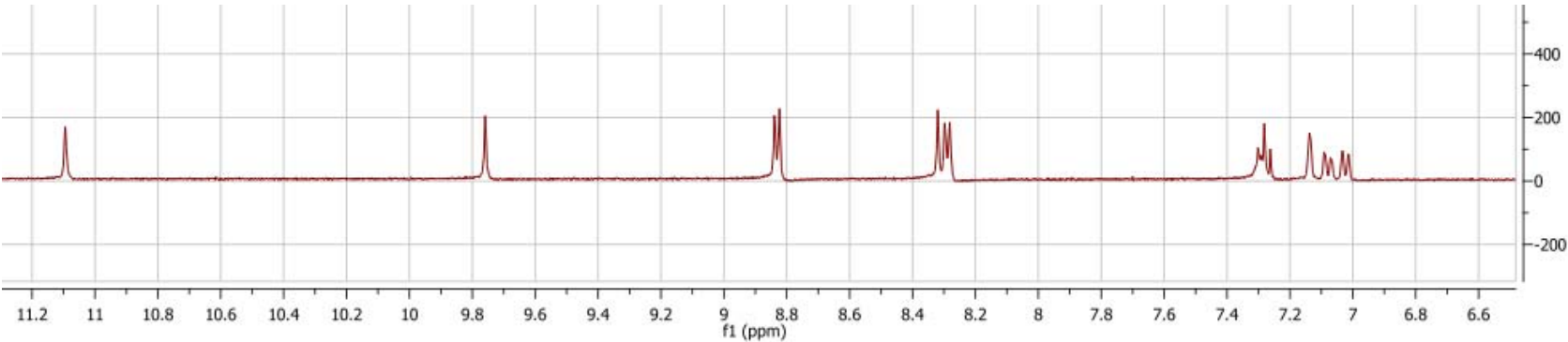
Expansion of the aromatic region of **5j**



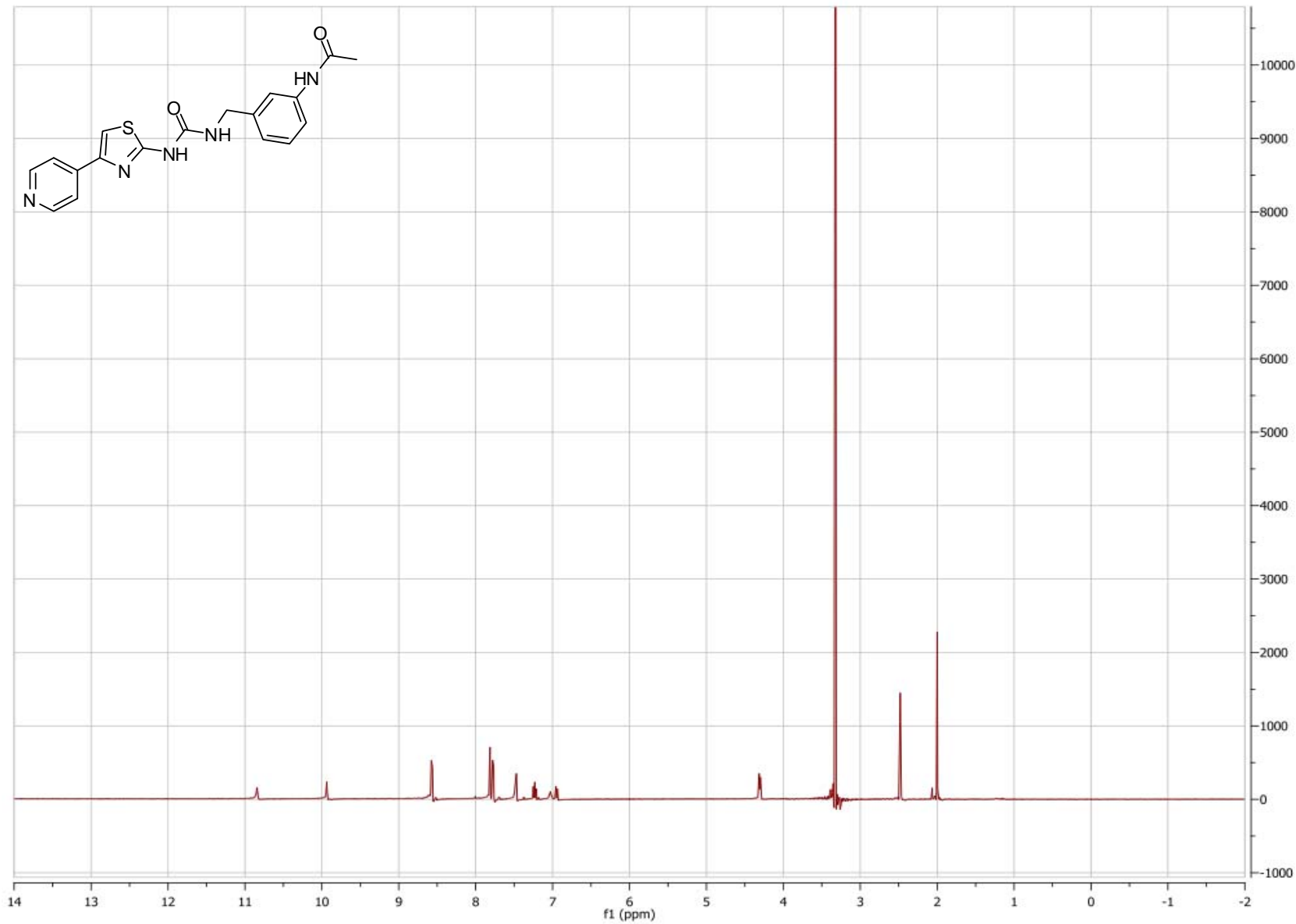
¹H NMR (DMSO-d₆) spectrum of **5k**



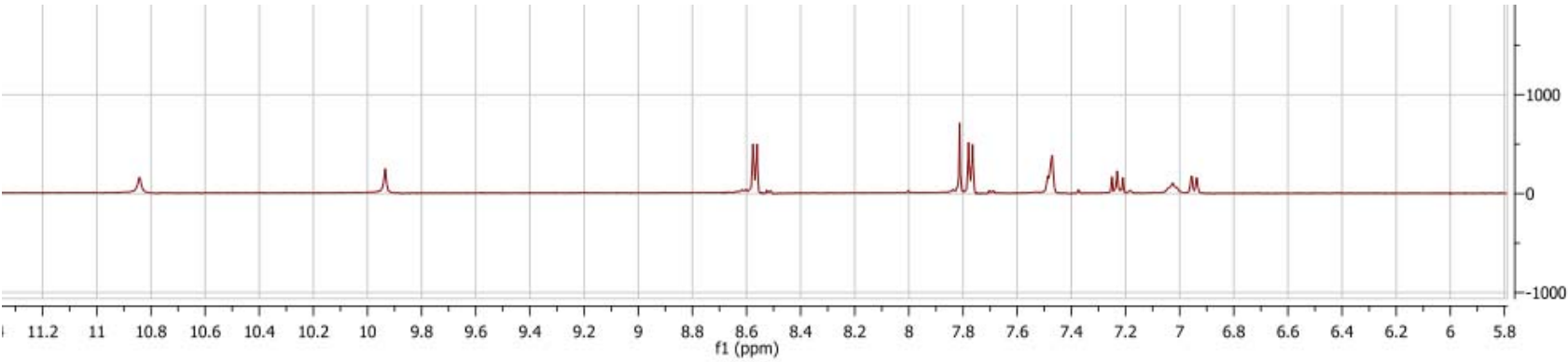
Expansion of the aromatic region of **5k**



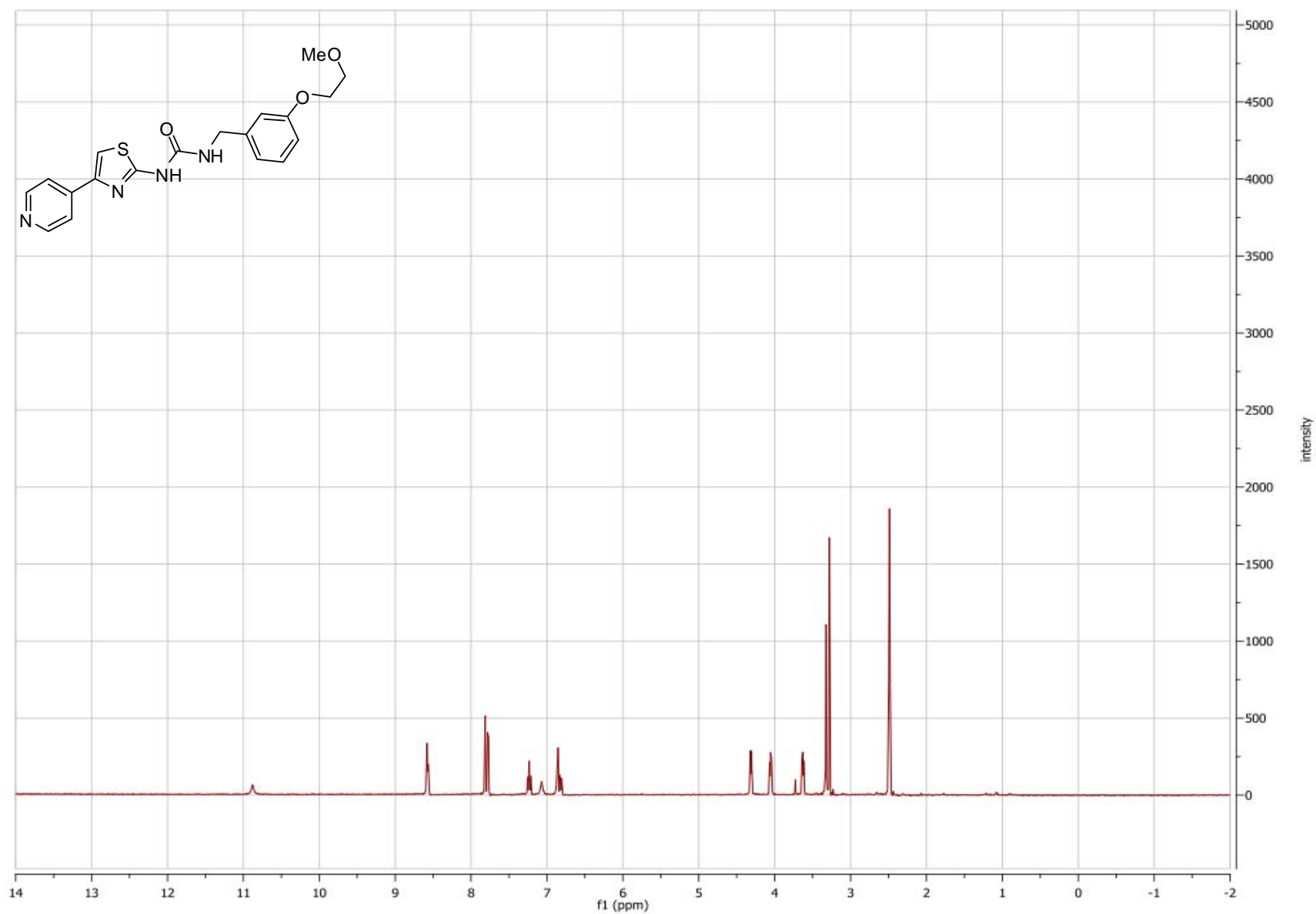
¹H NMR (DMSO-d₆) spectrum of **51**



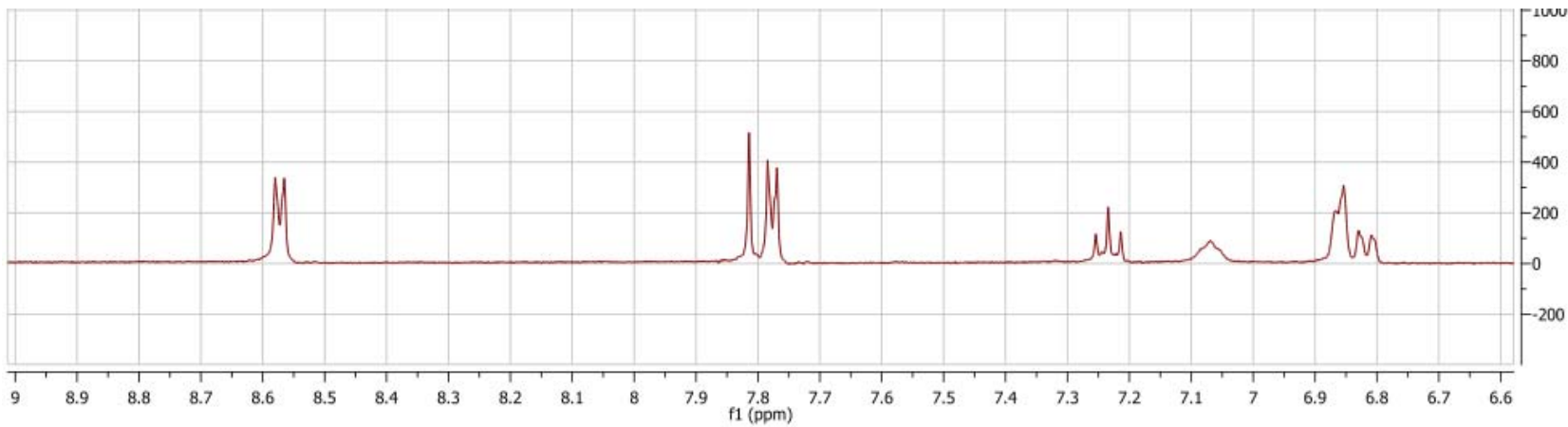
Expansion of the aromatic region of **51**



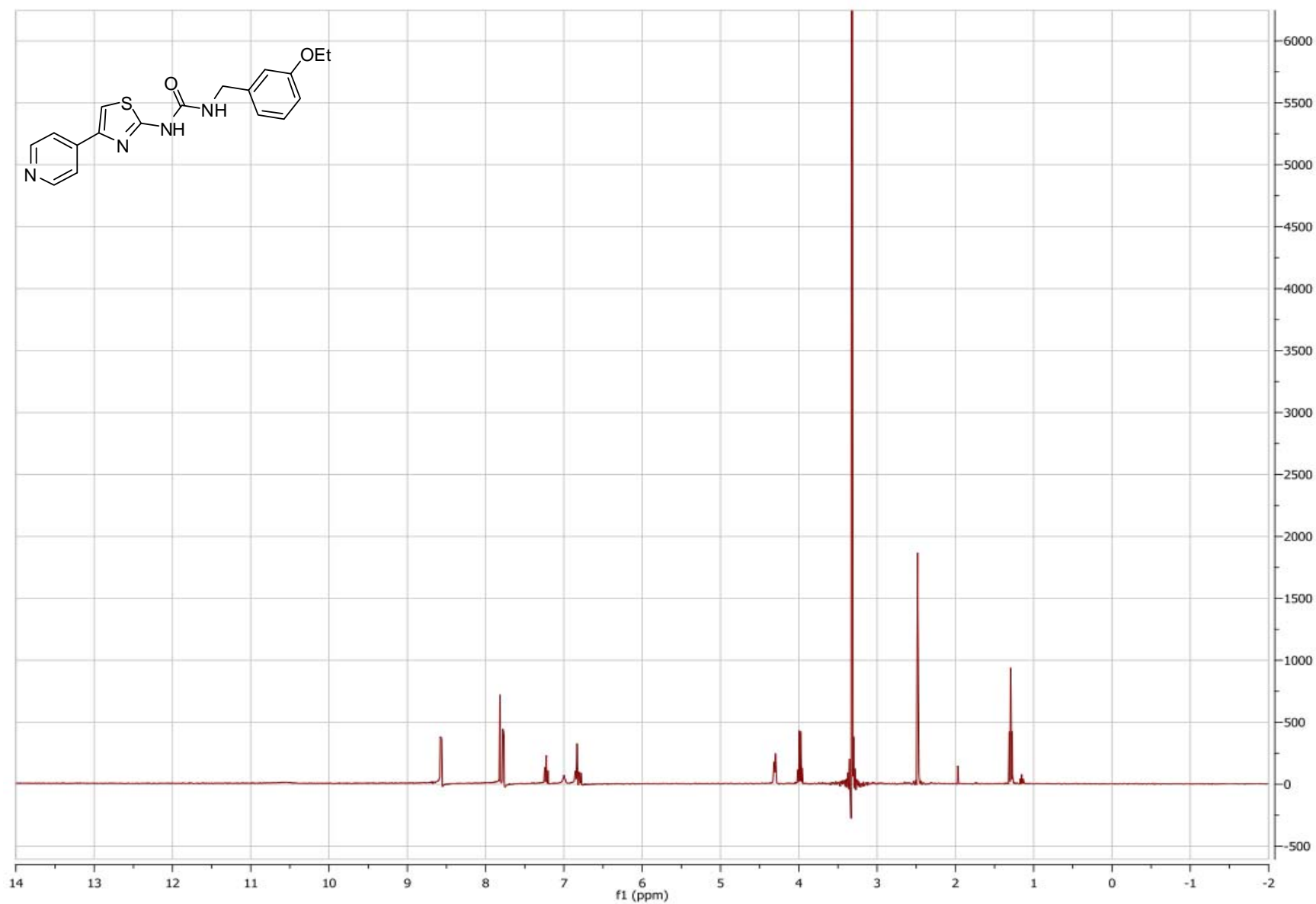
^1H NMR (DMSO-d_6) spectrum of **5m**



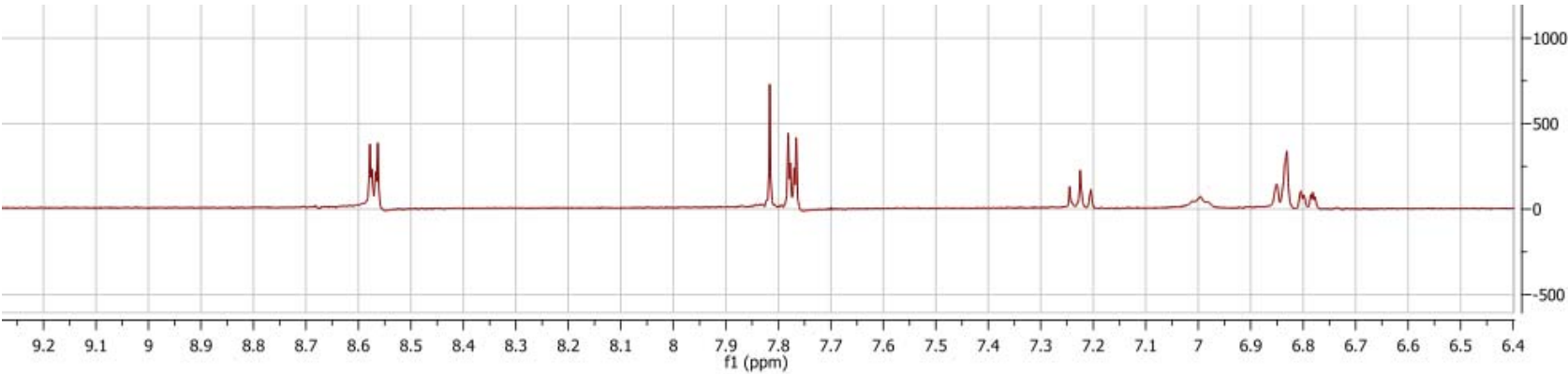
Expansion of the aromatic region of **5m**



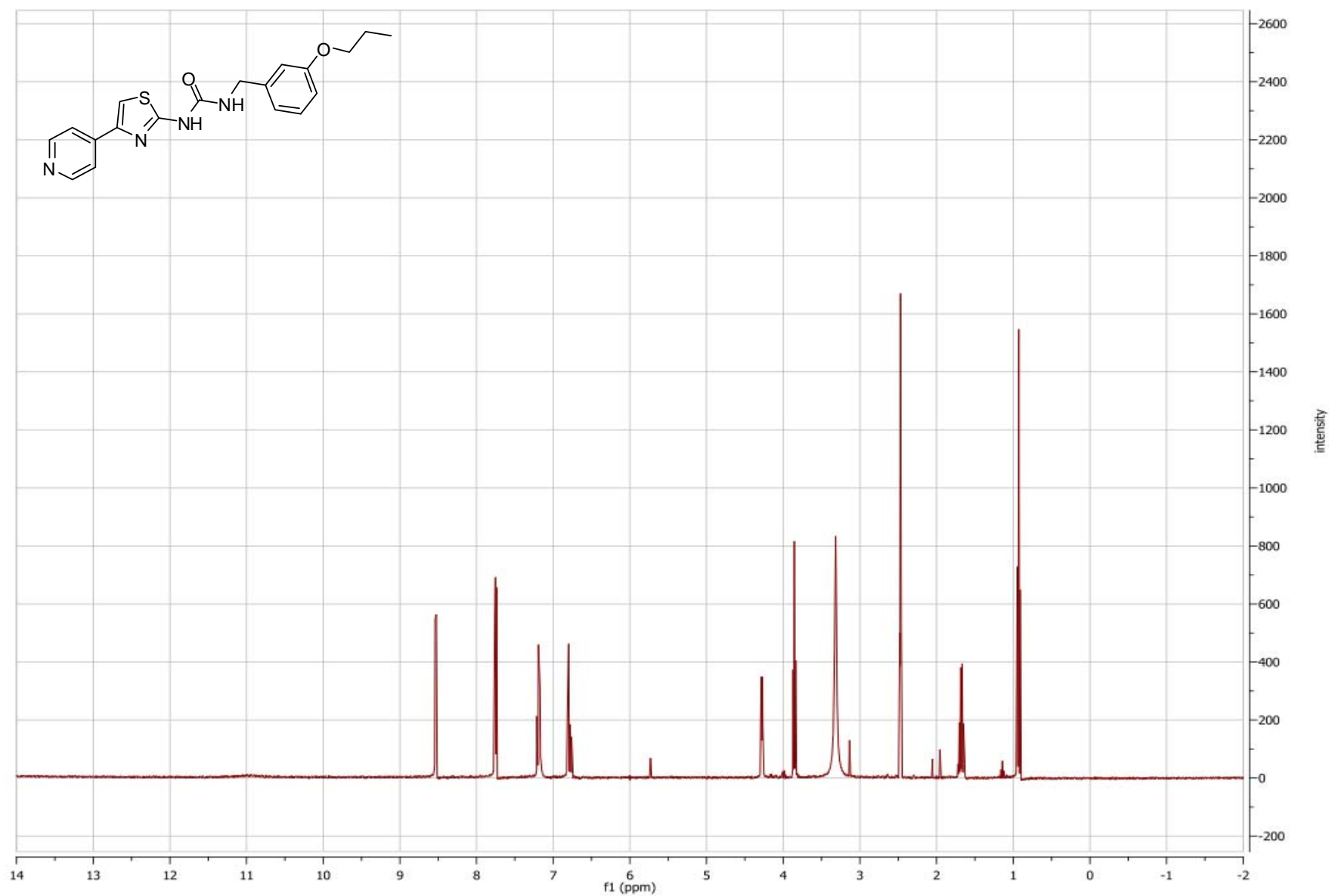
^1H NMR (DMSO- d_6) spectrum of **5n**



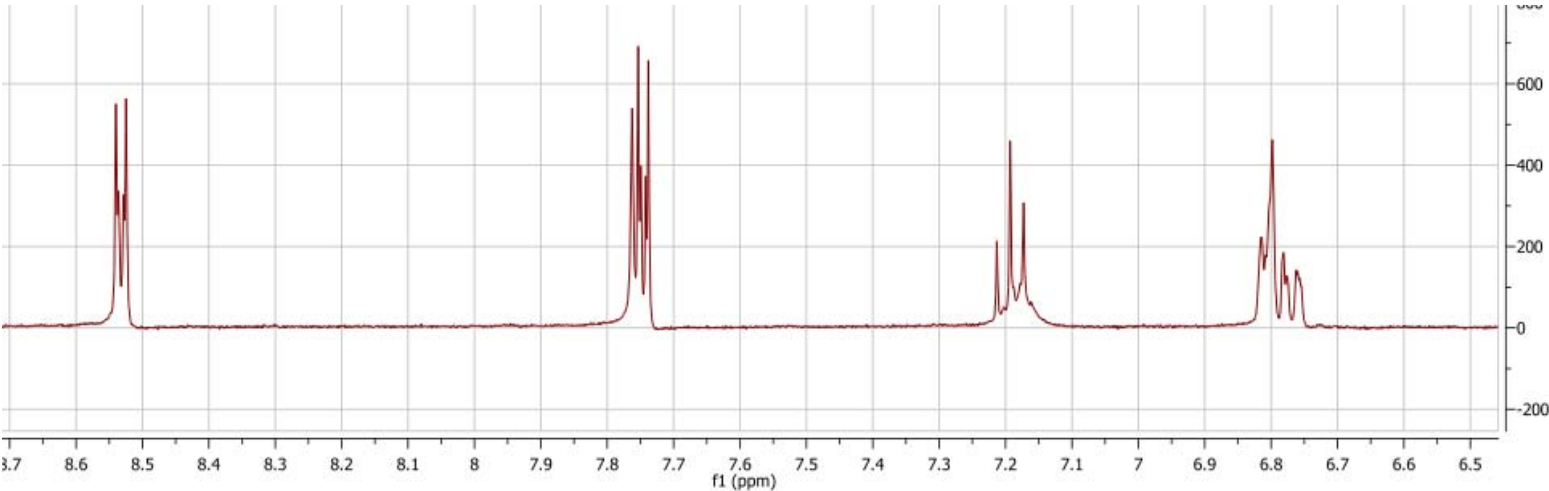
Expansion of the aromatic region of **5n**



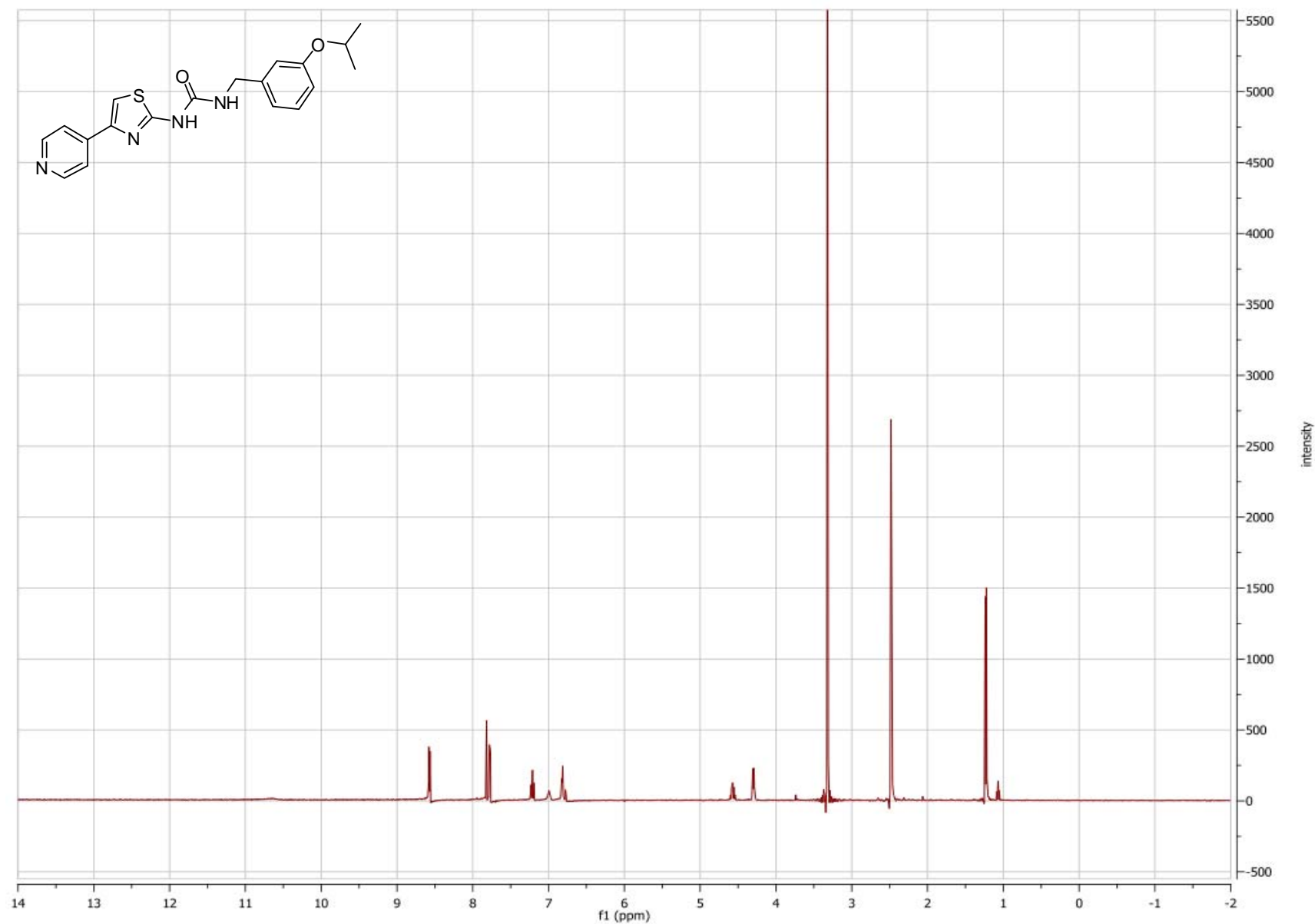
^1H NMR (DMSO- d_6) spectrum of **5o**



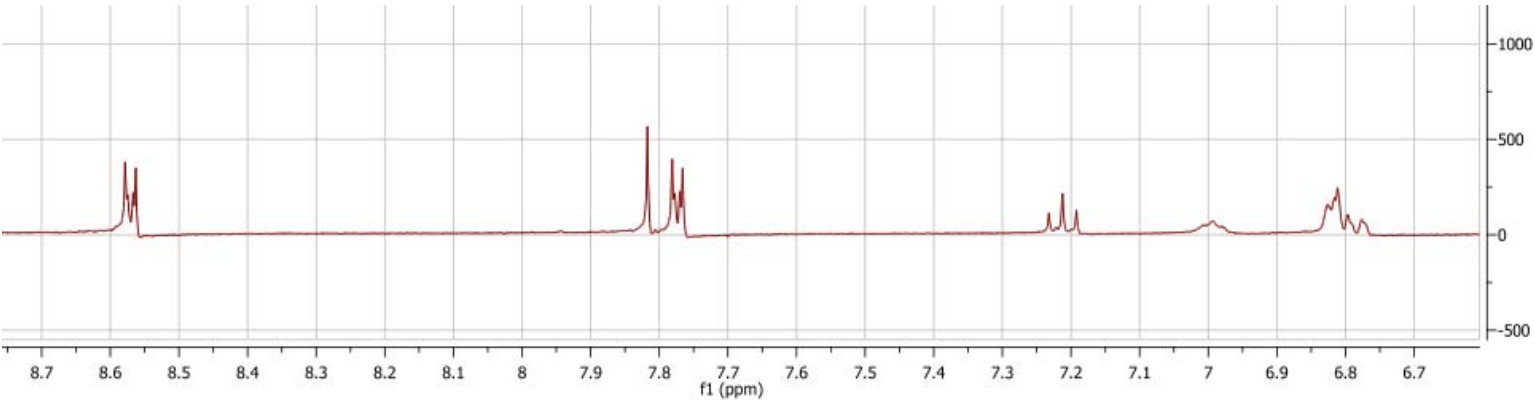
Expansion of the aromatic region of **5o**



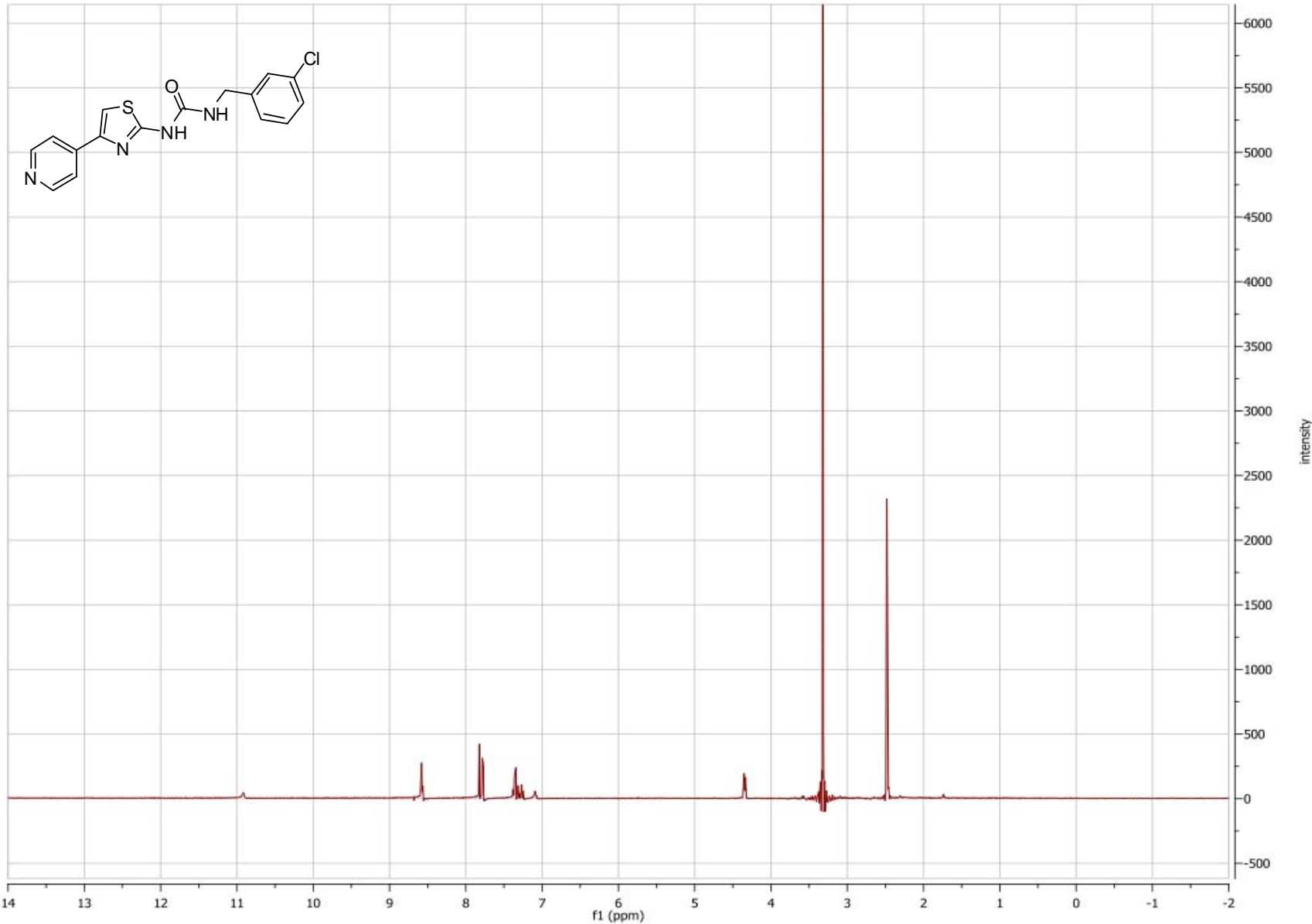
^1H NMR (DMSO- d_6) spectrum of **5p**



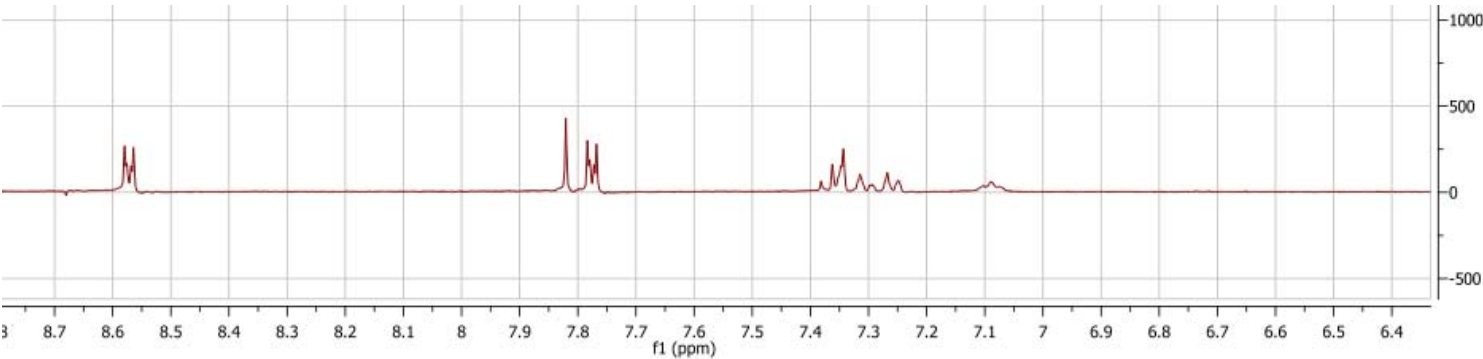
Expansion of the aromatic region of **5p**



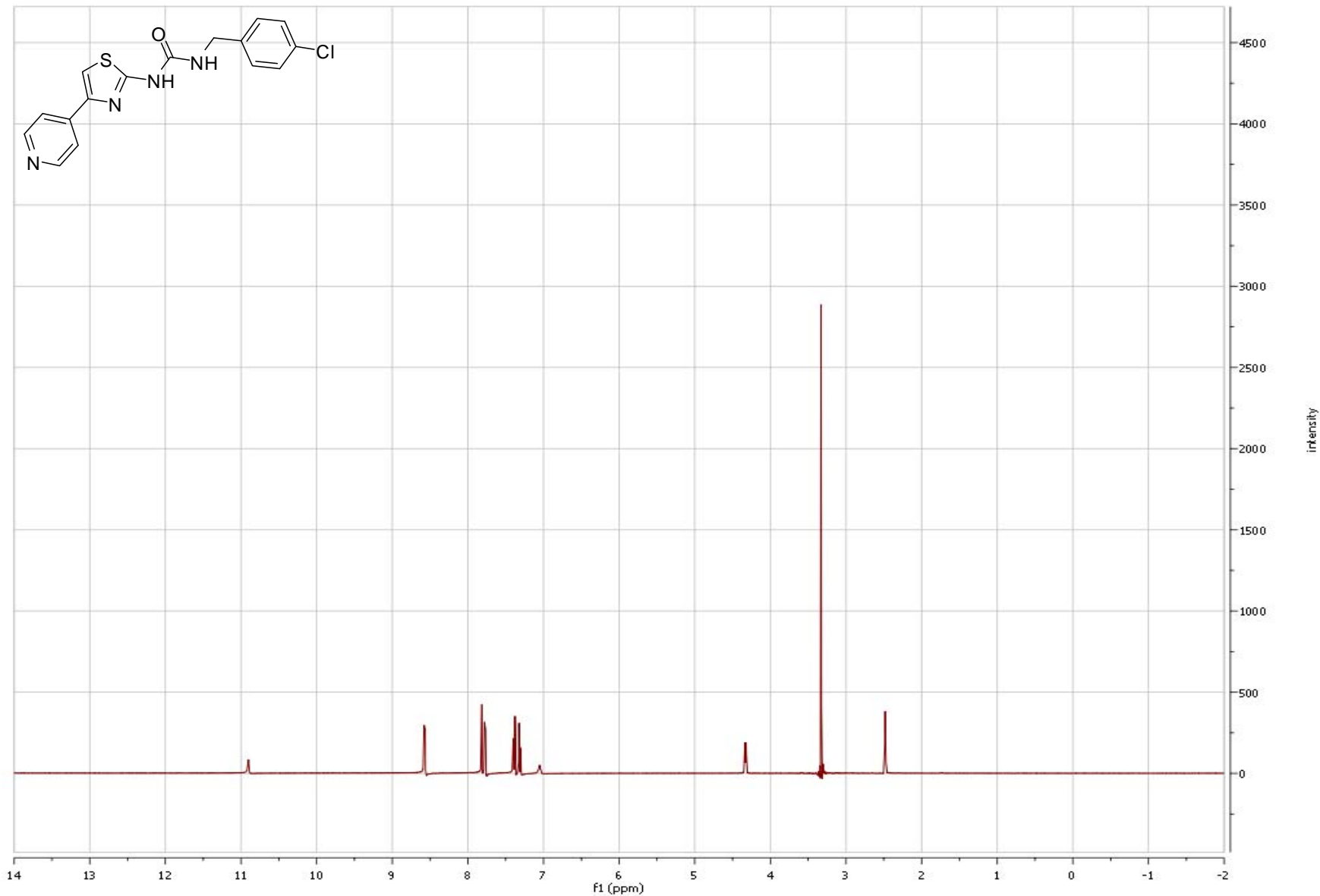
¹H NMR (DMSO-d₆) spectrum of **5t**



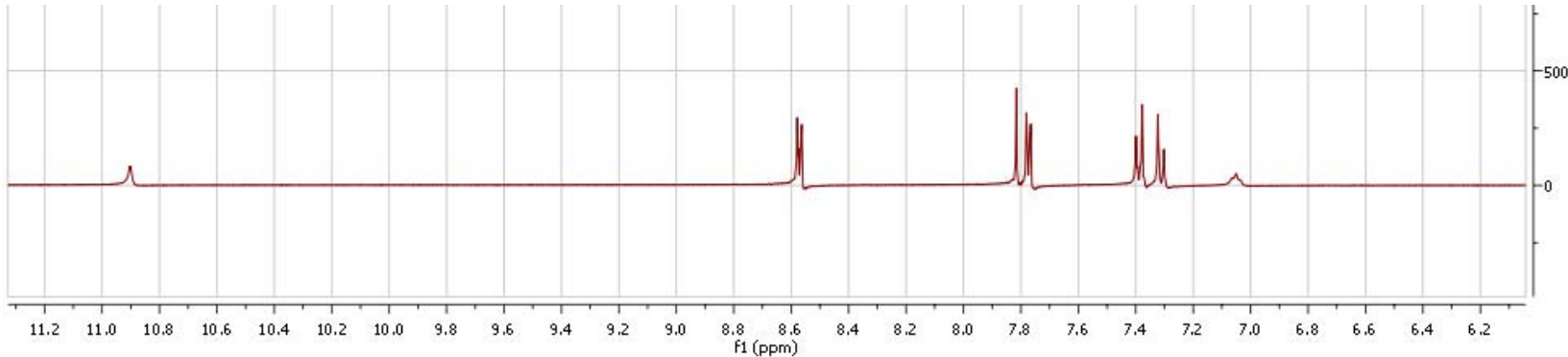
Expansion of the aromatic region of **5p**



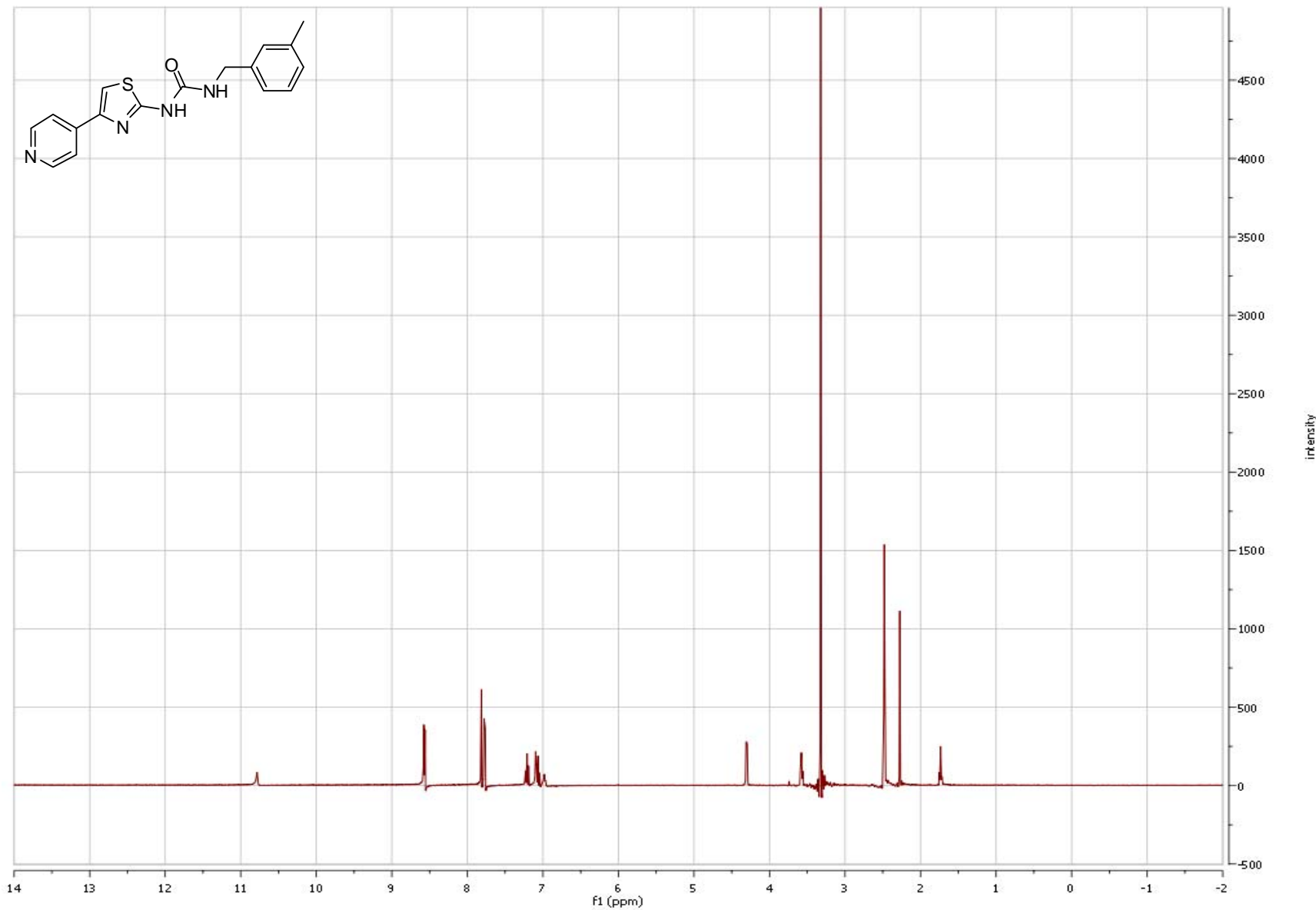
¹H NMR (DMSO-d₆) spectrum of **5v**



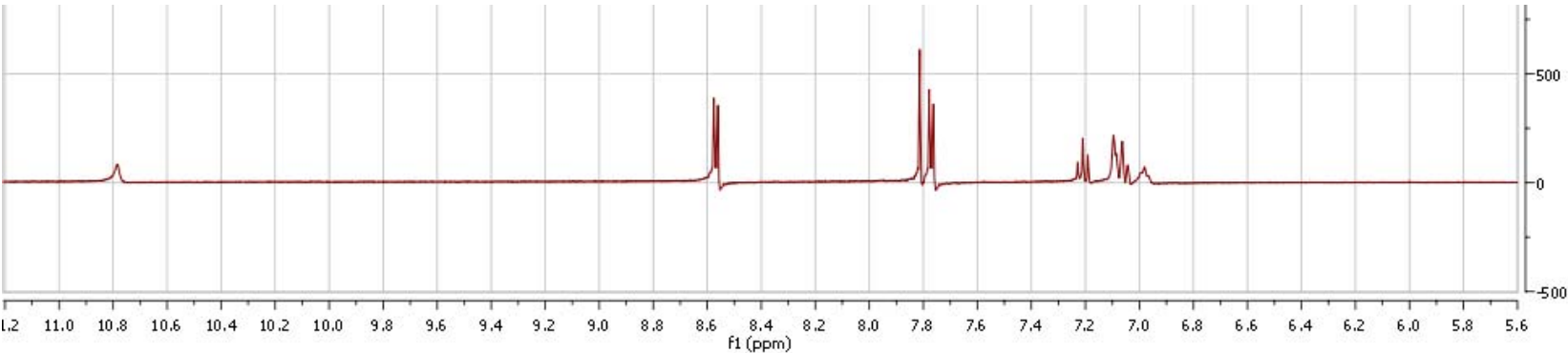
Expansion of the aromatic region of **5v**



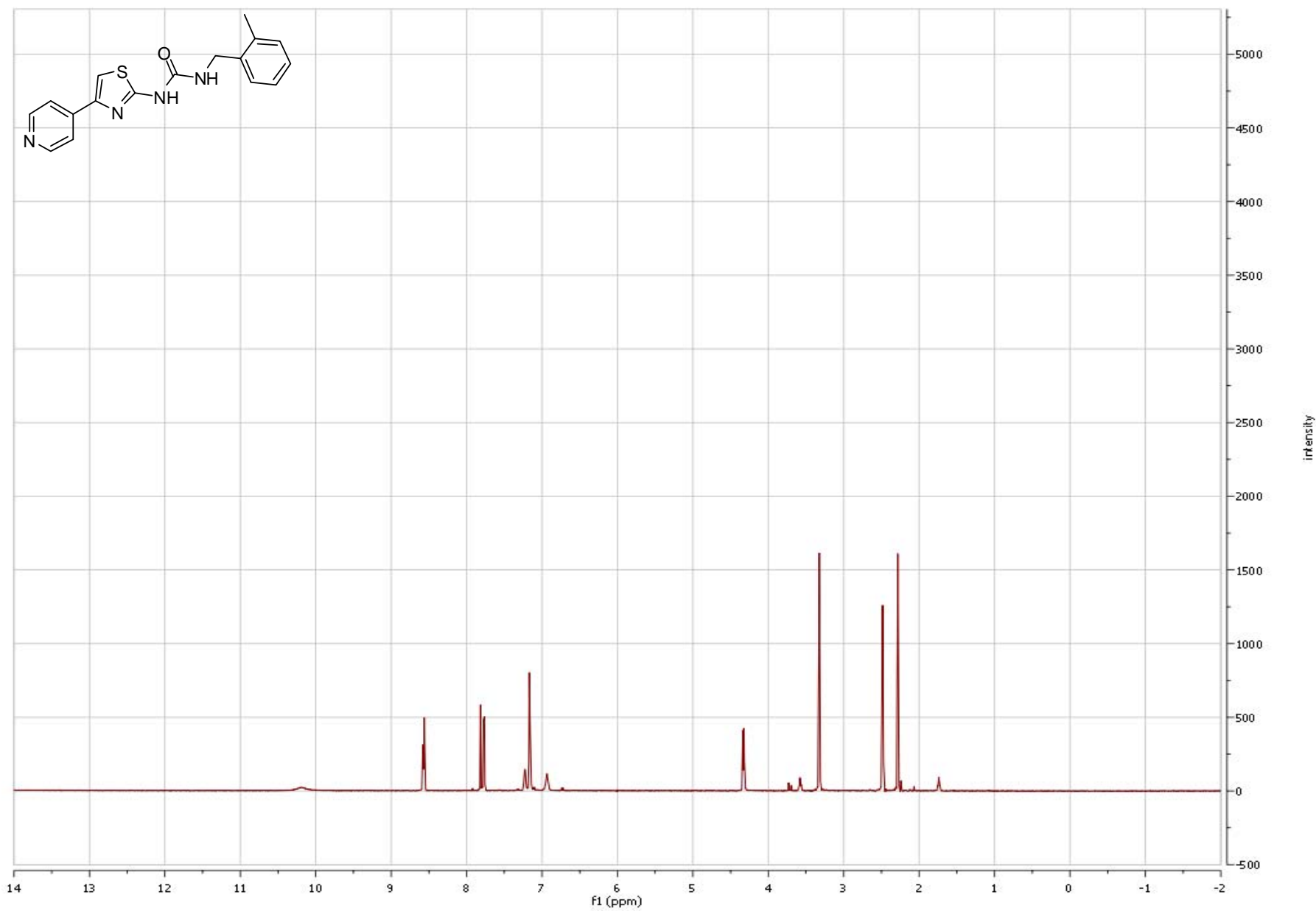
¹H NMR (DMSO-d₆) spectrum of **5w**



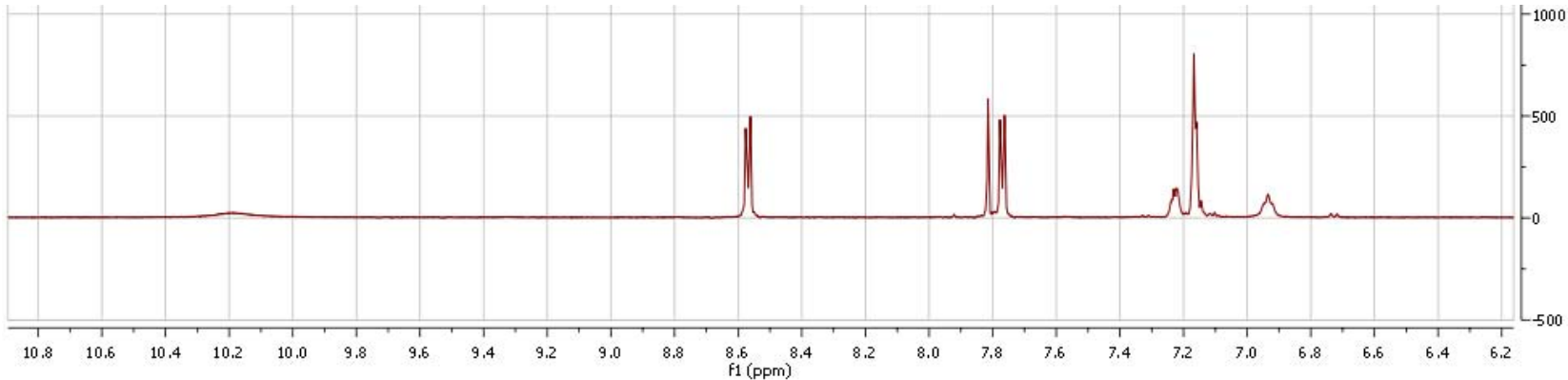
Expansion of the aromatic region of **5w**



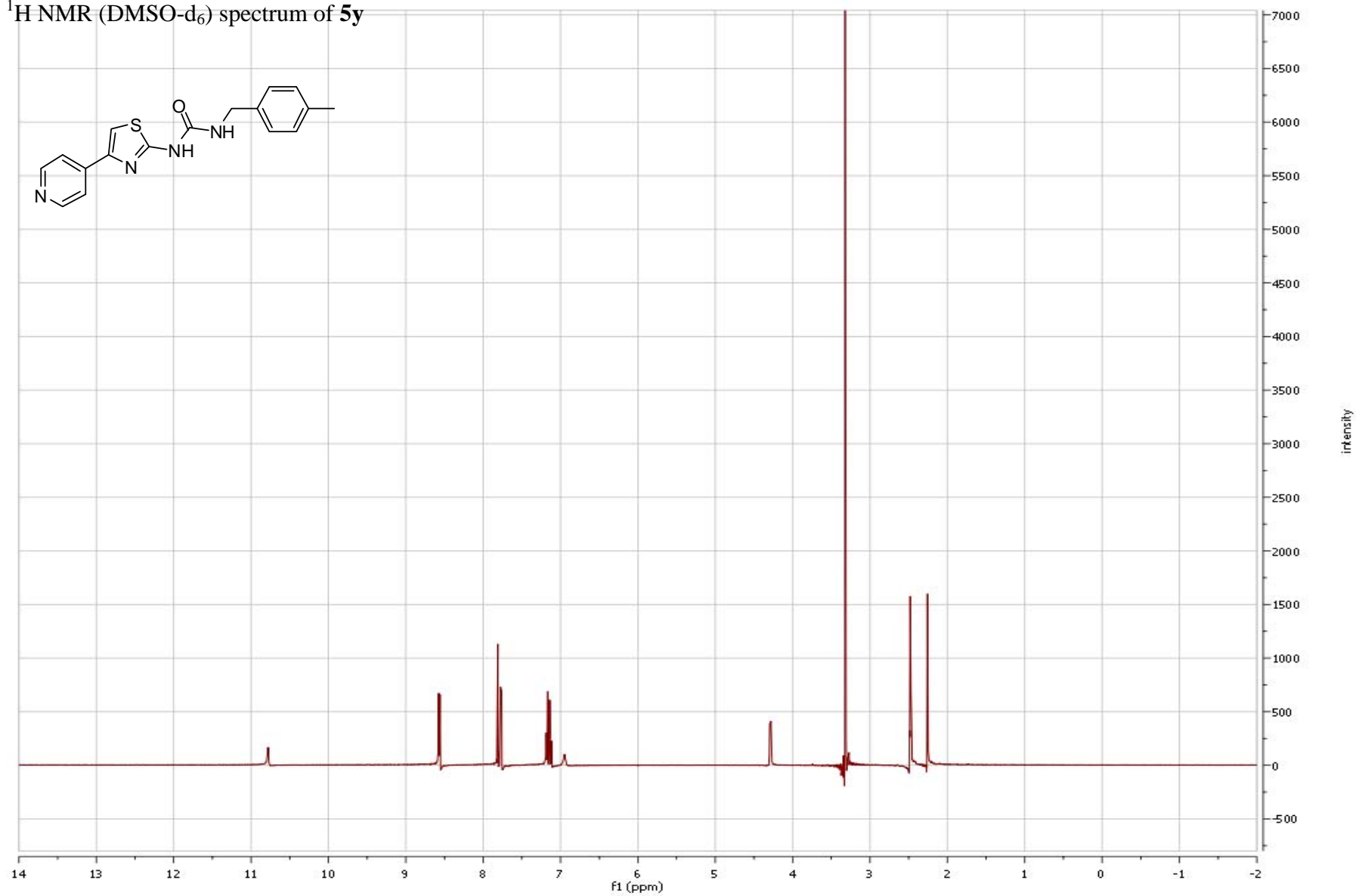
¹H NMR (DMSO-d₆) spectrum of **5x**



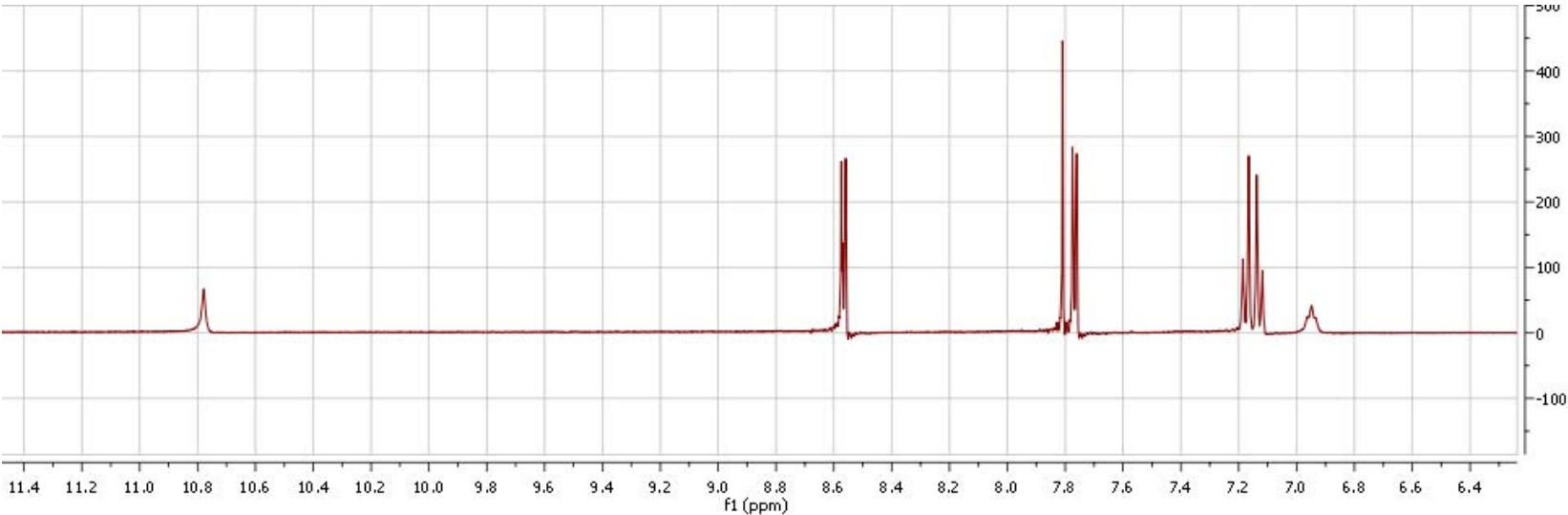
Expansion of the aromatic region of **5x**



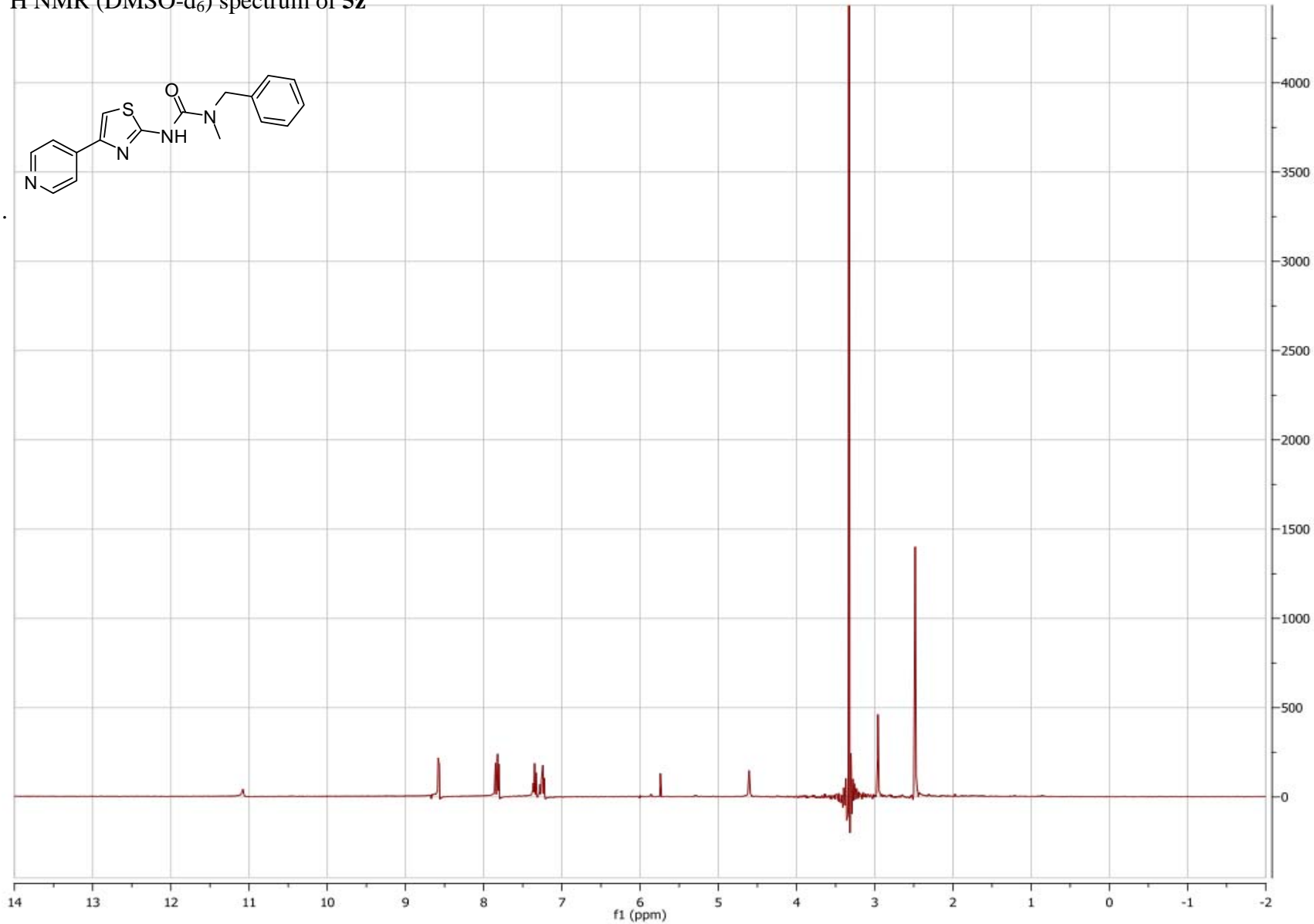
^1H NMR (DMSO- d_6) spectrum of **5y**



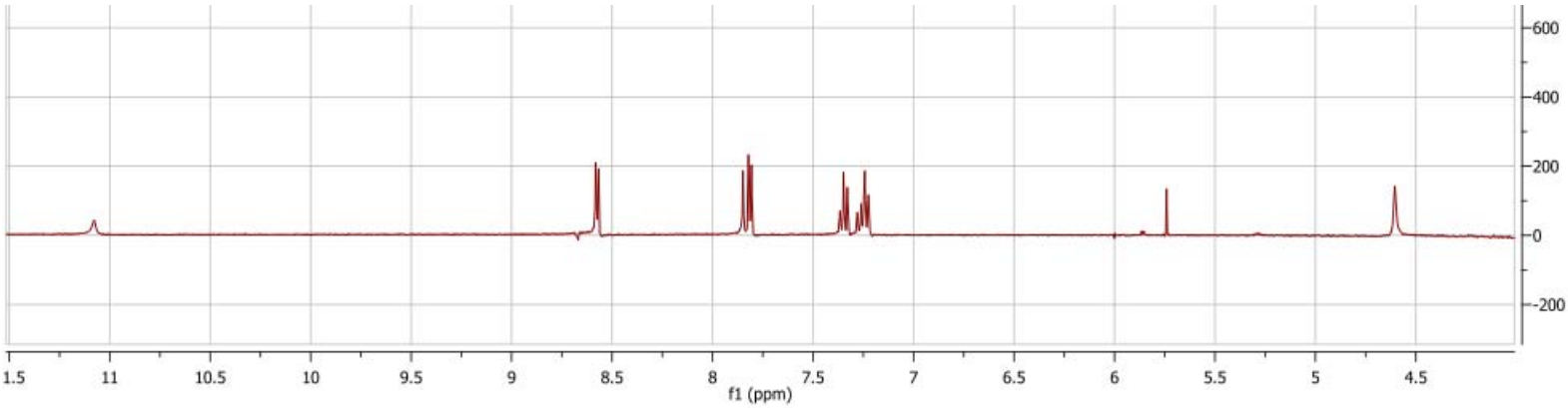
Expansion of the aromatic region of **5y**



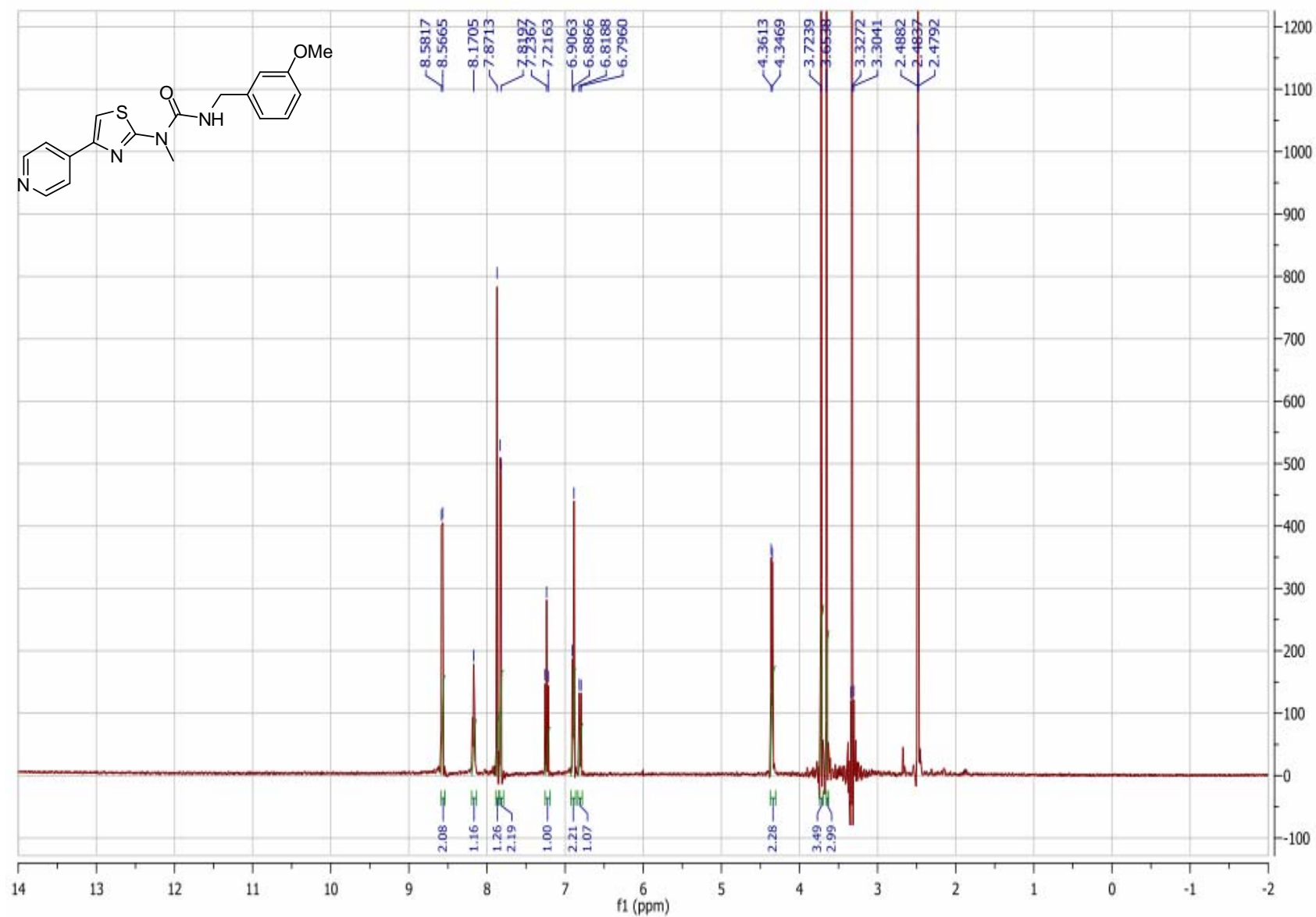
¹H NMR (DMSO-d₆) spectrum of **5z**



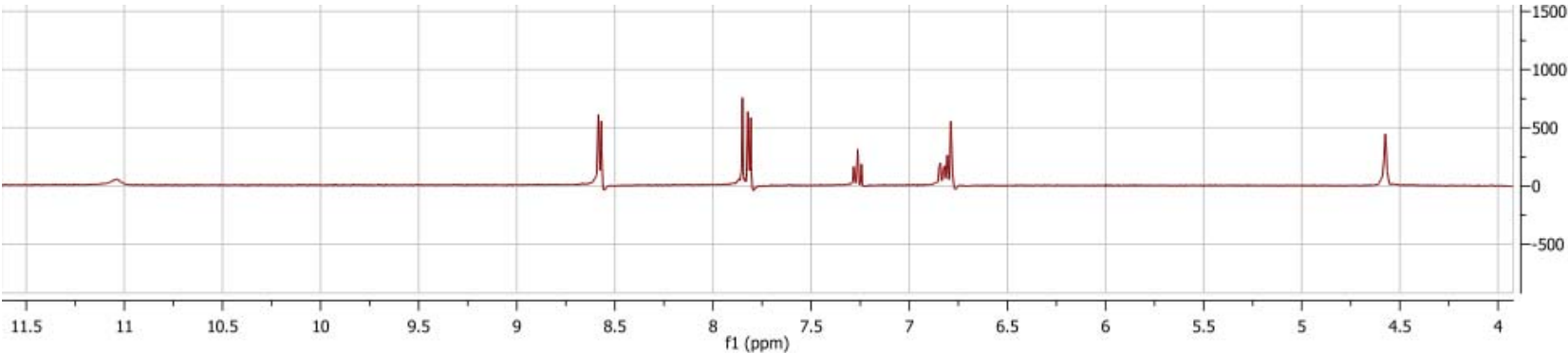
Expansion of the aromatic region of **5z**



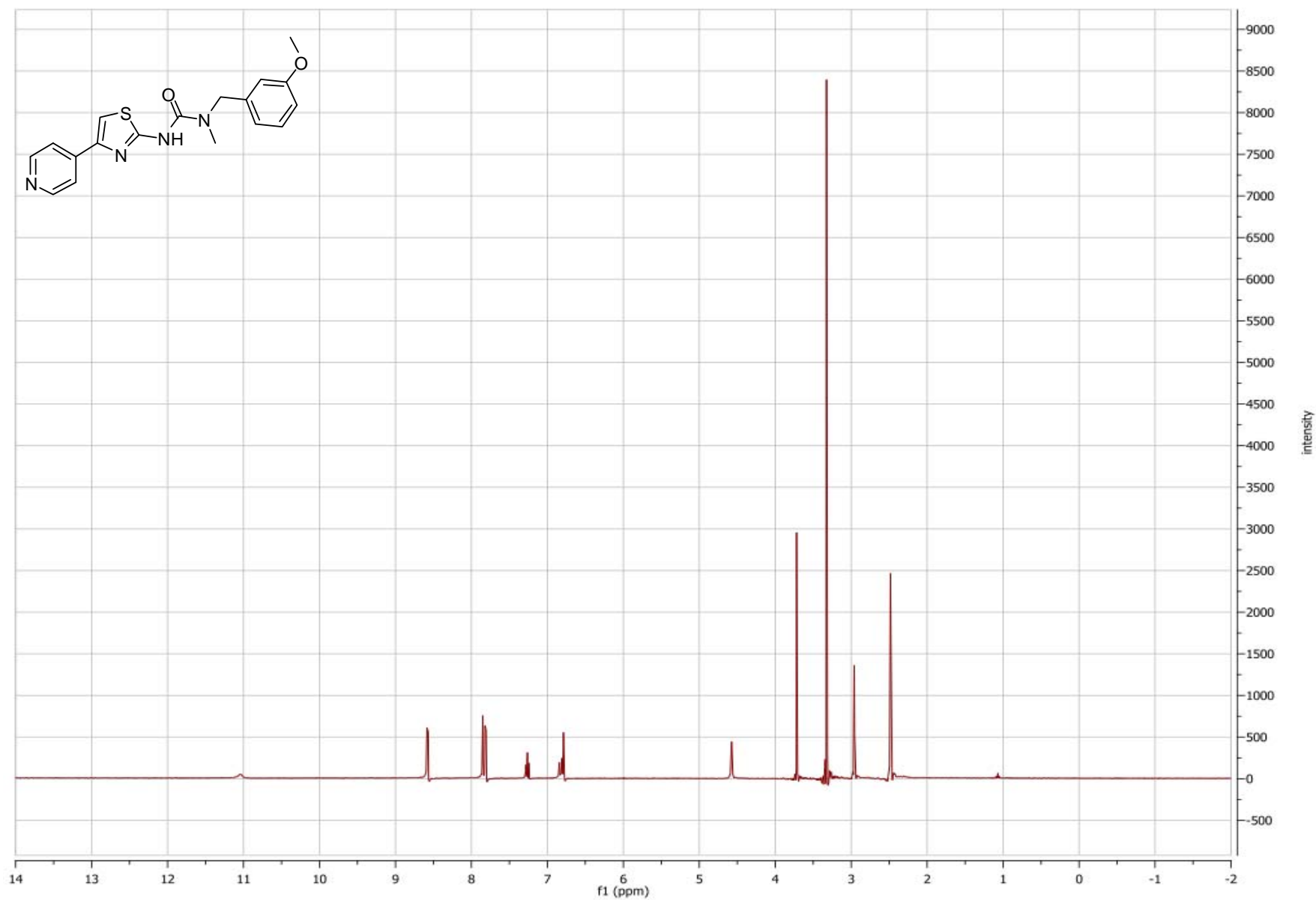
^1H NMR (DMSO- d_6) spectrum of **5aa**



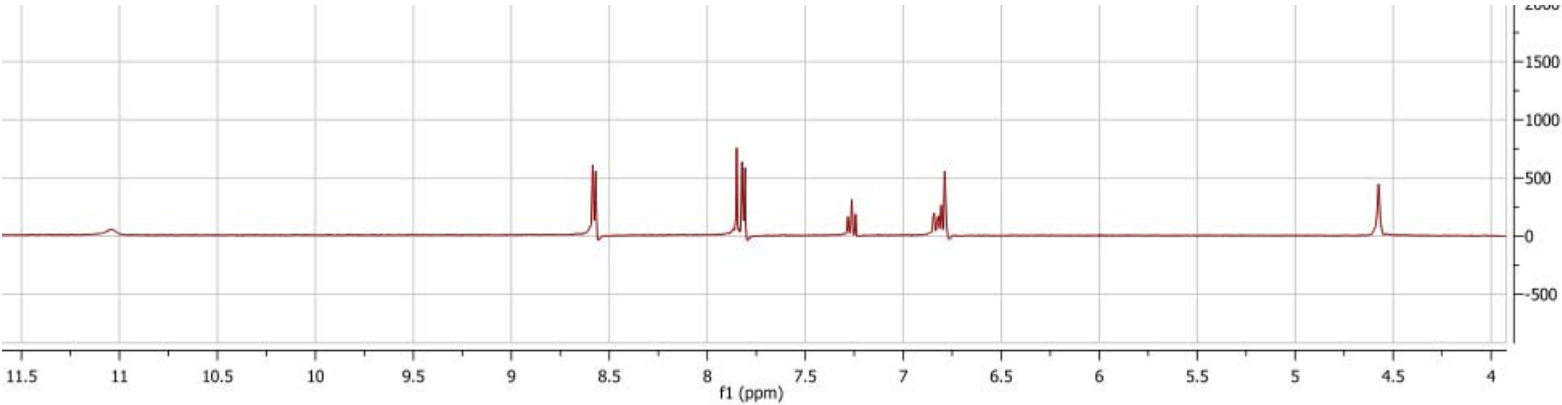
Expansion of the aromatic region of **5aa**



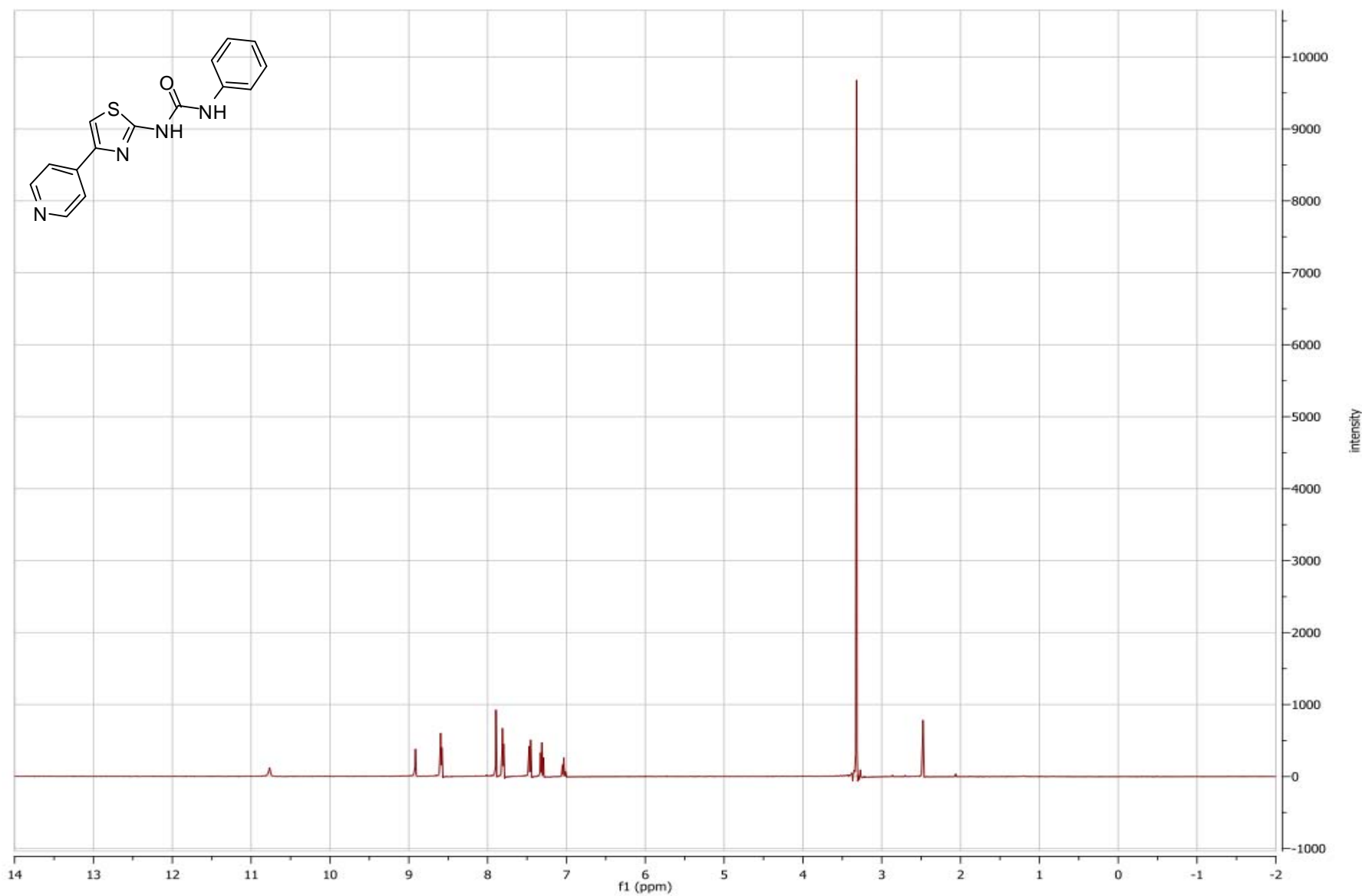
^1H NMR (DMSO- d_6) spectrum of **5ab**



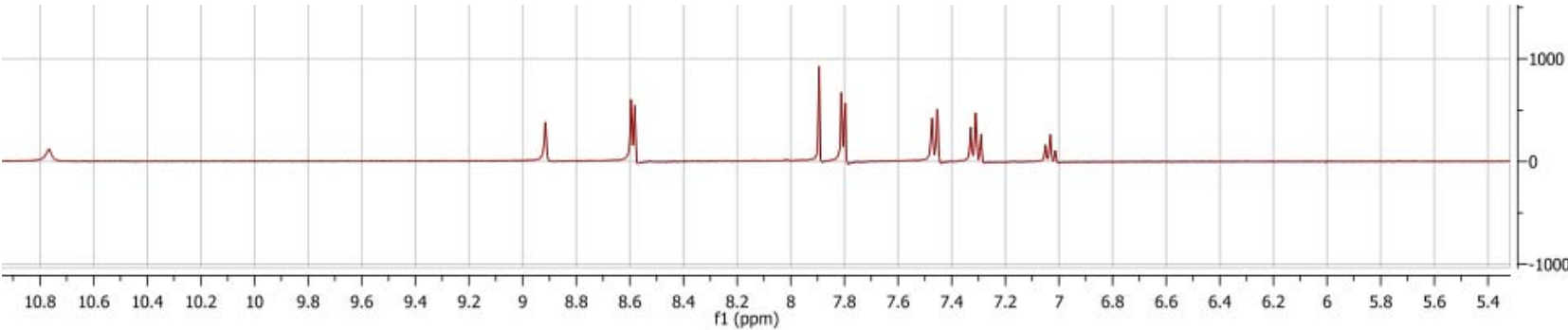
Expansion of the aromatic region of **5ab**



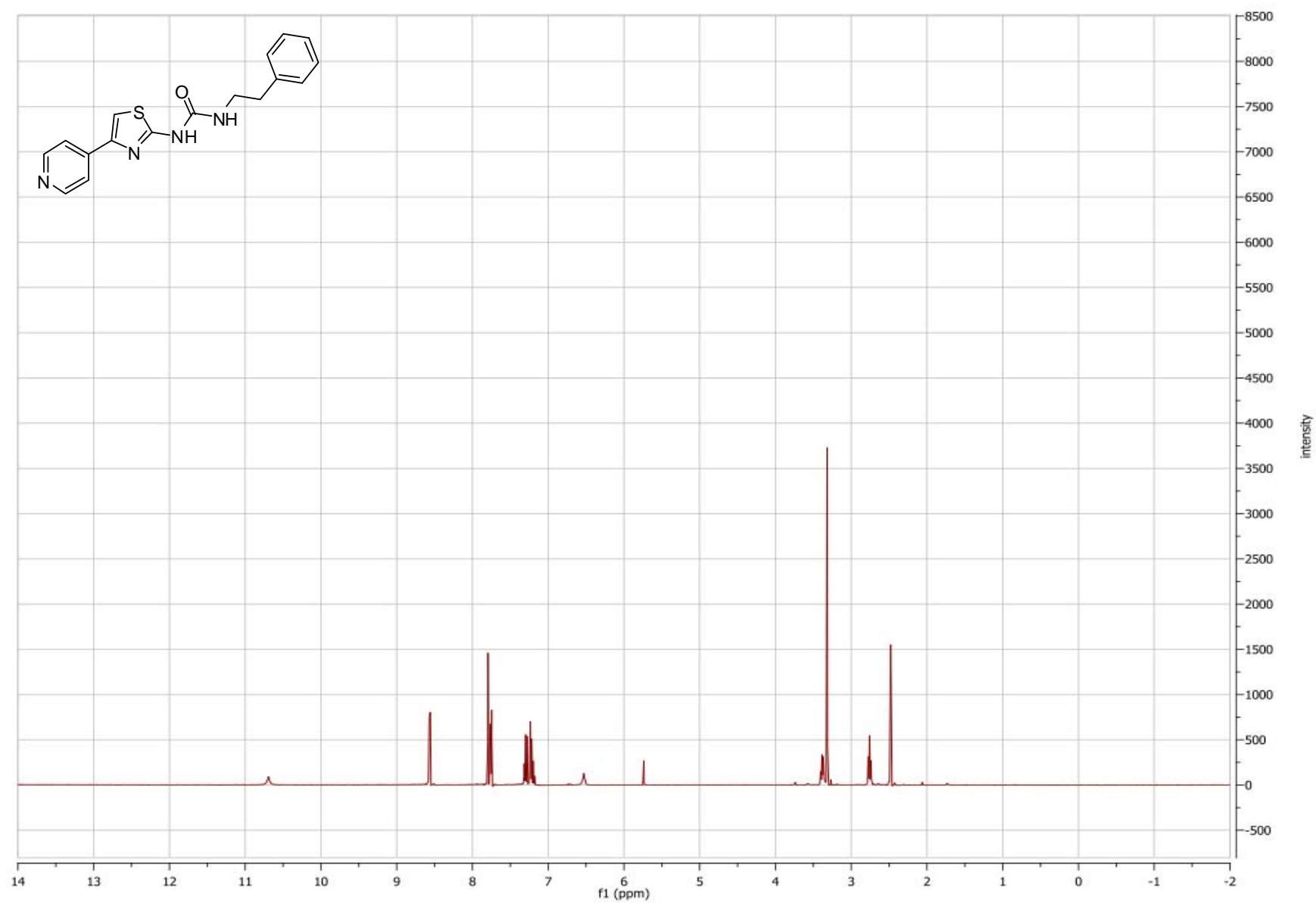
¹H NMR (DMSO-d₆) spectrum of **12**



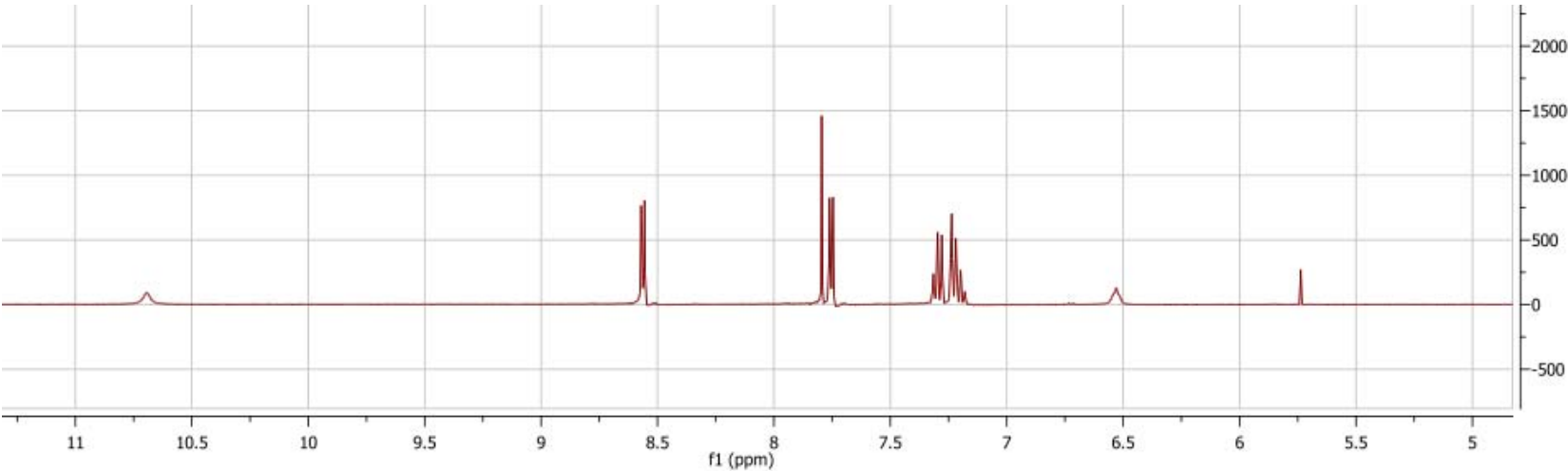
Expansion of the aromatic region of **12**



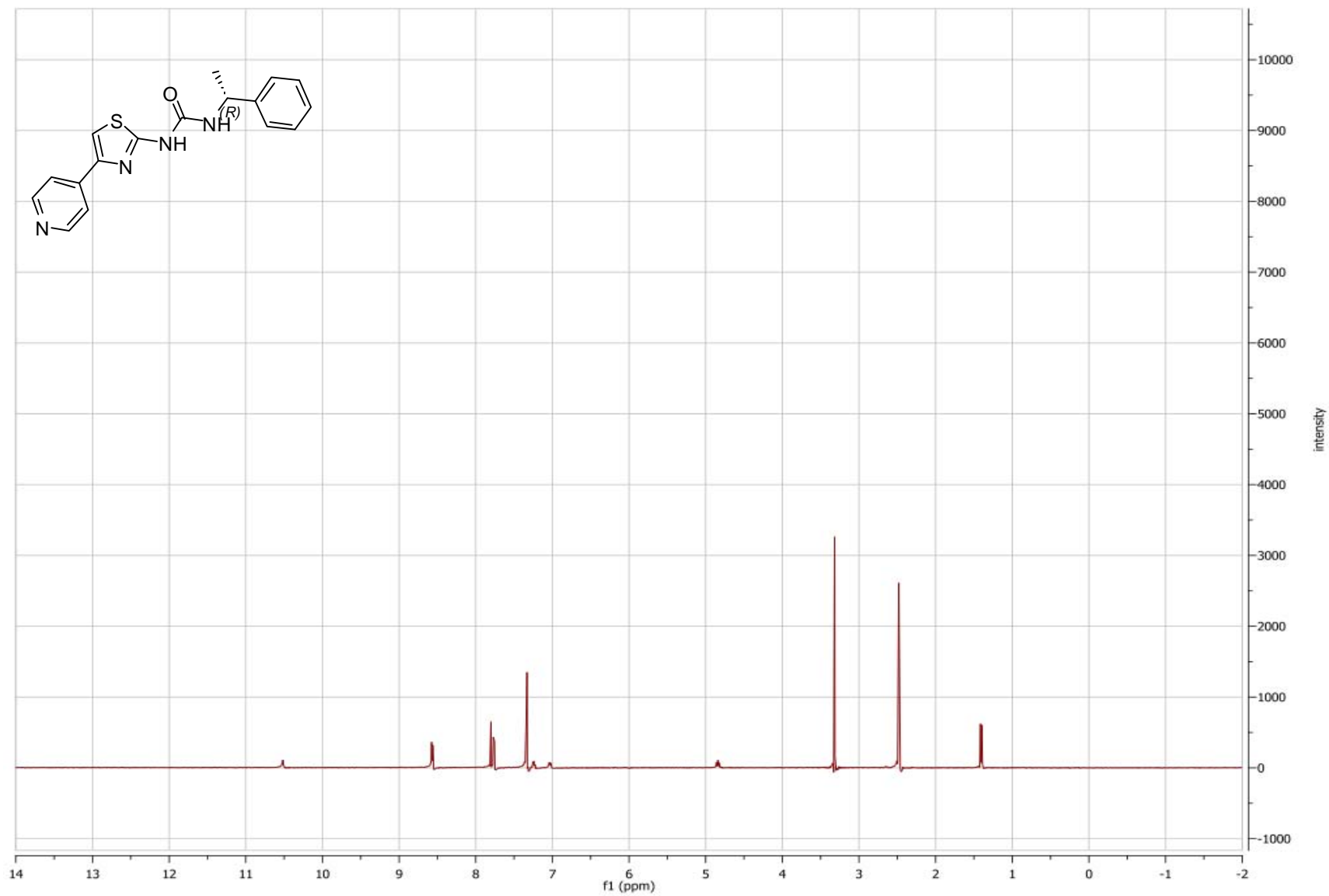
^1H NMR (DMSO- d_6) spectrum of **13**



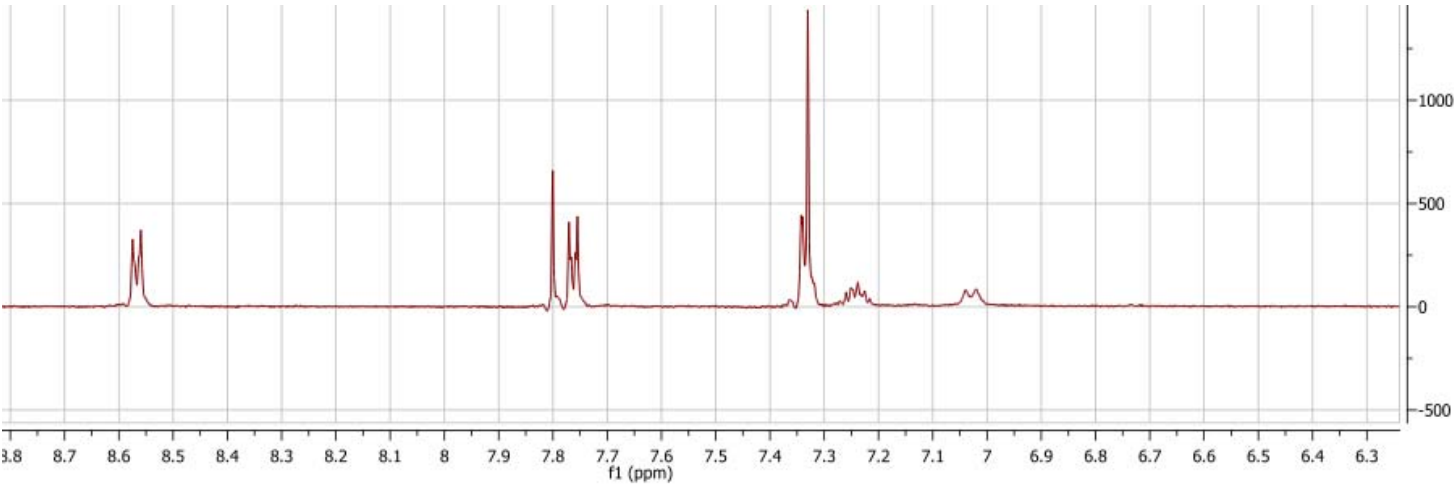
Expansion of the aromatic region of **13**



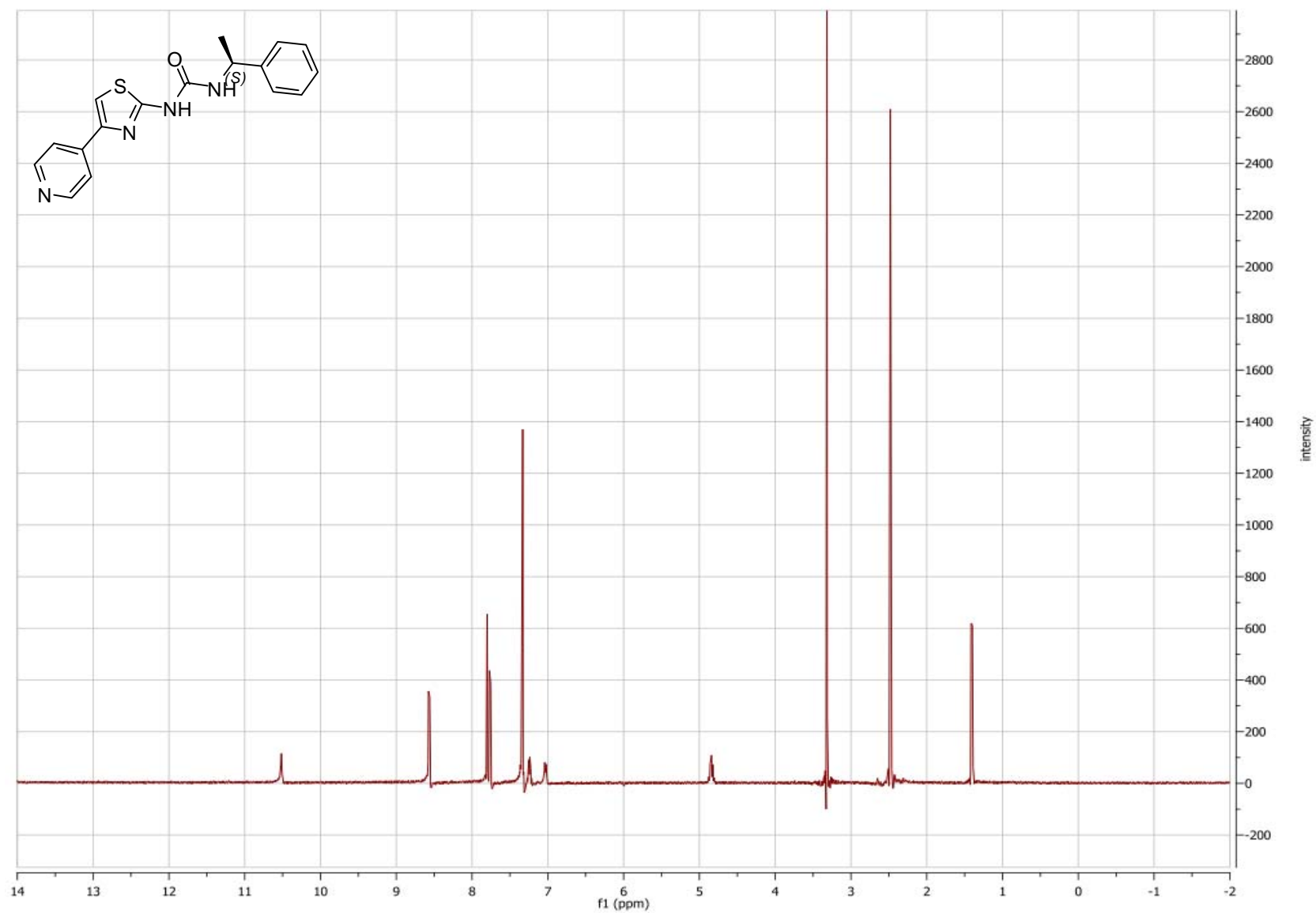
^1H NMR (DMSO- d_6) spectrum of (*R*)-**14a**



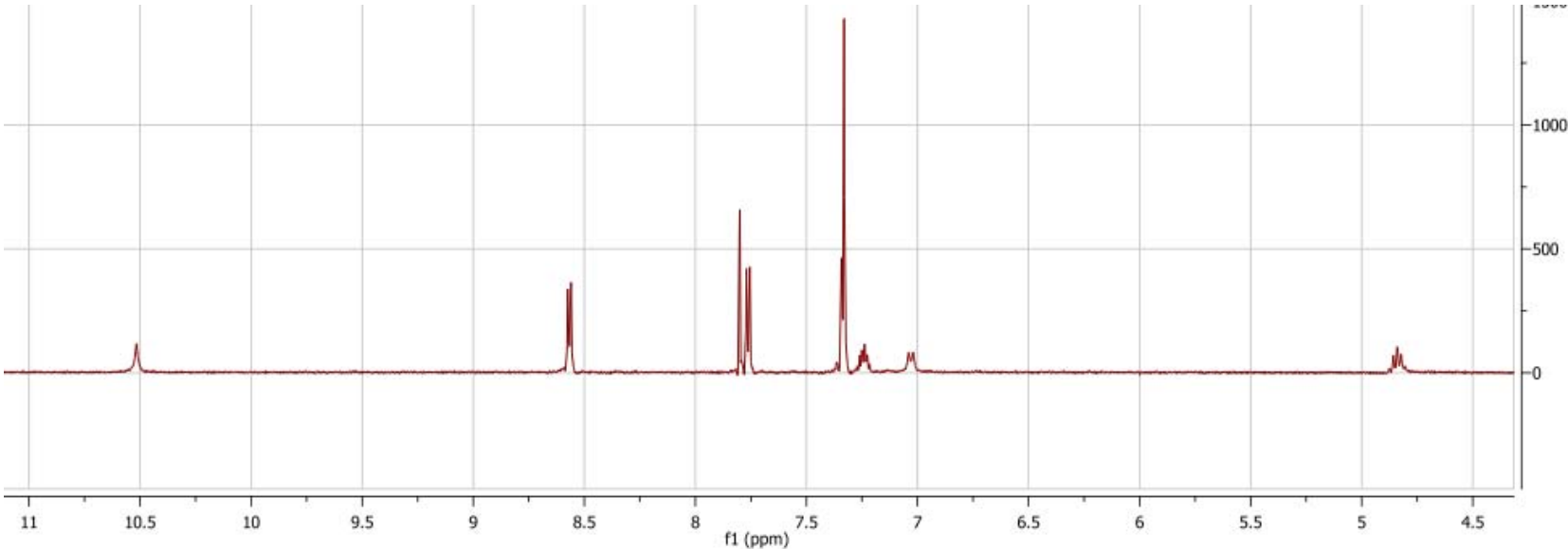
Expansion of the aromatic region of (*R*)-14a



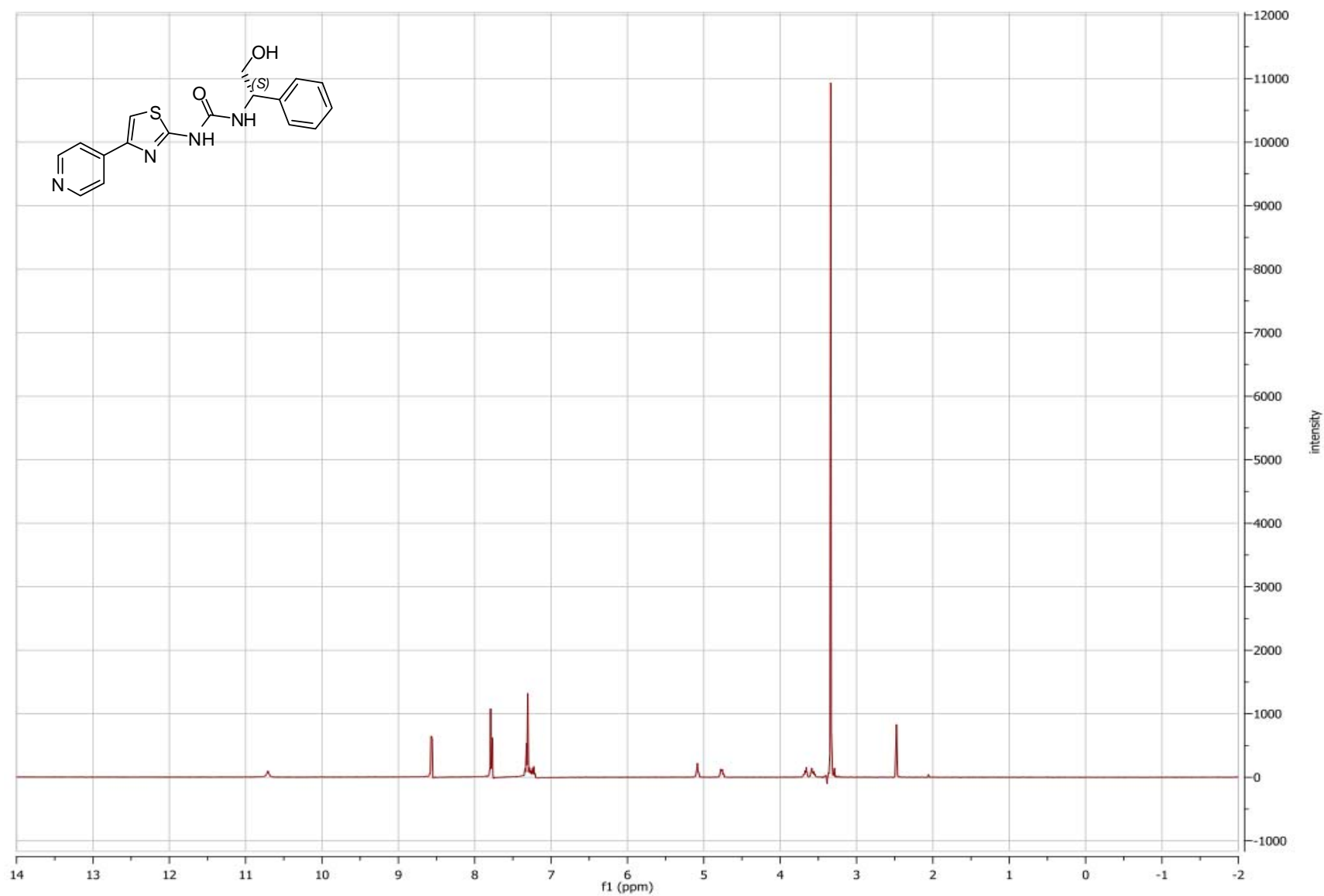
^1H NMR (DMSO- d_6) spectrum of (*S*)-**14a**



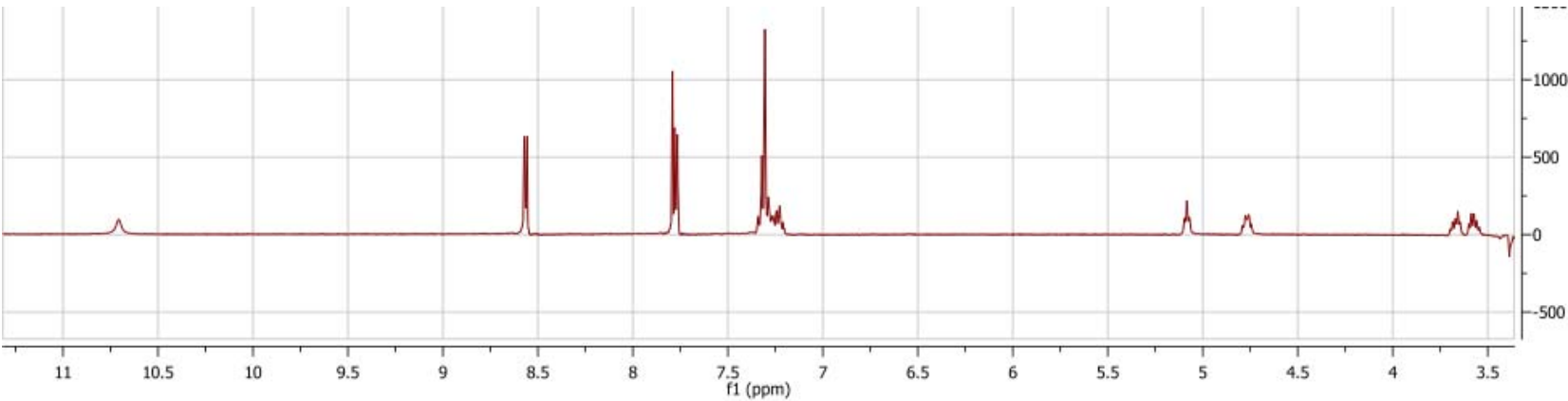
Expansion of the aromatic region of (S)-14a



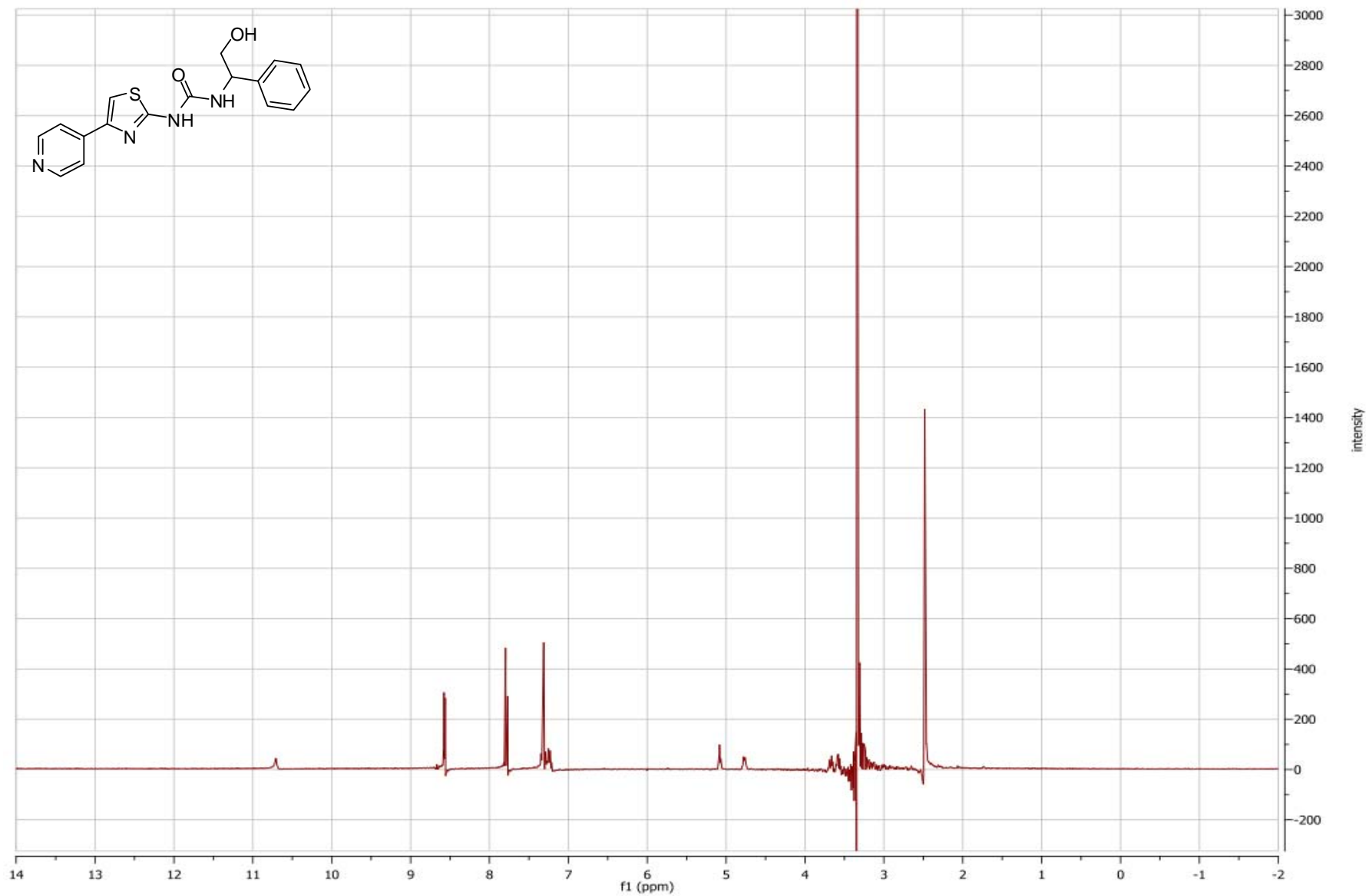
¹H NMR (DMSO-d₆) spectrum of (*R,S*)-14b



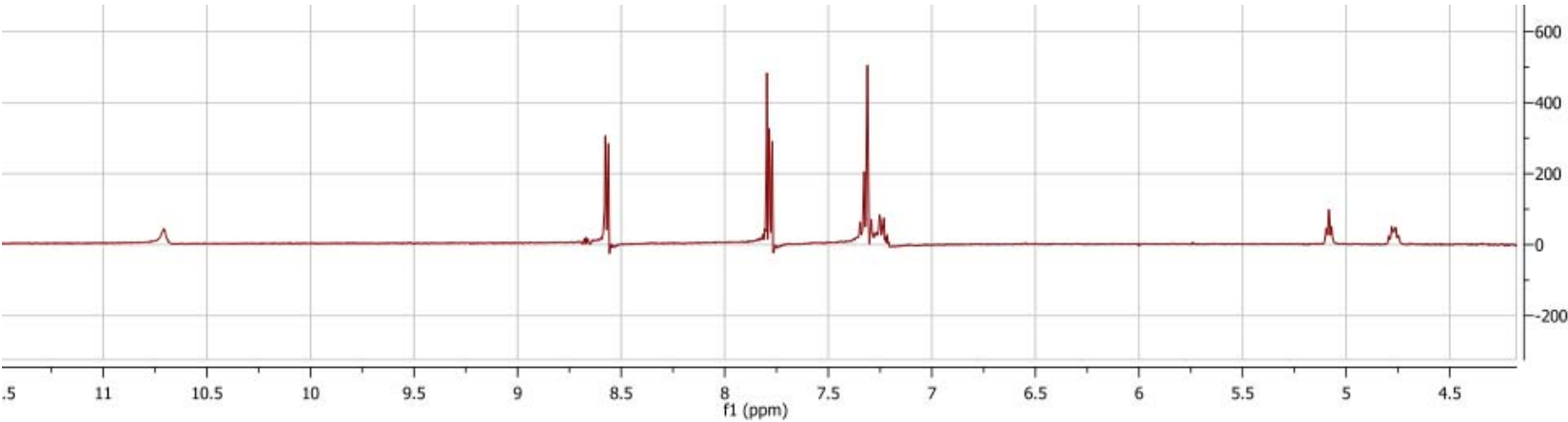
Expansion of the aromatic region of (*R,S*)-14b



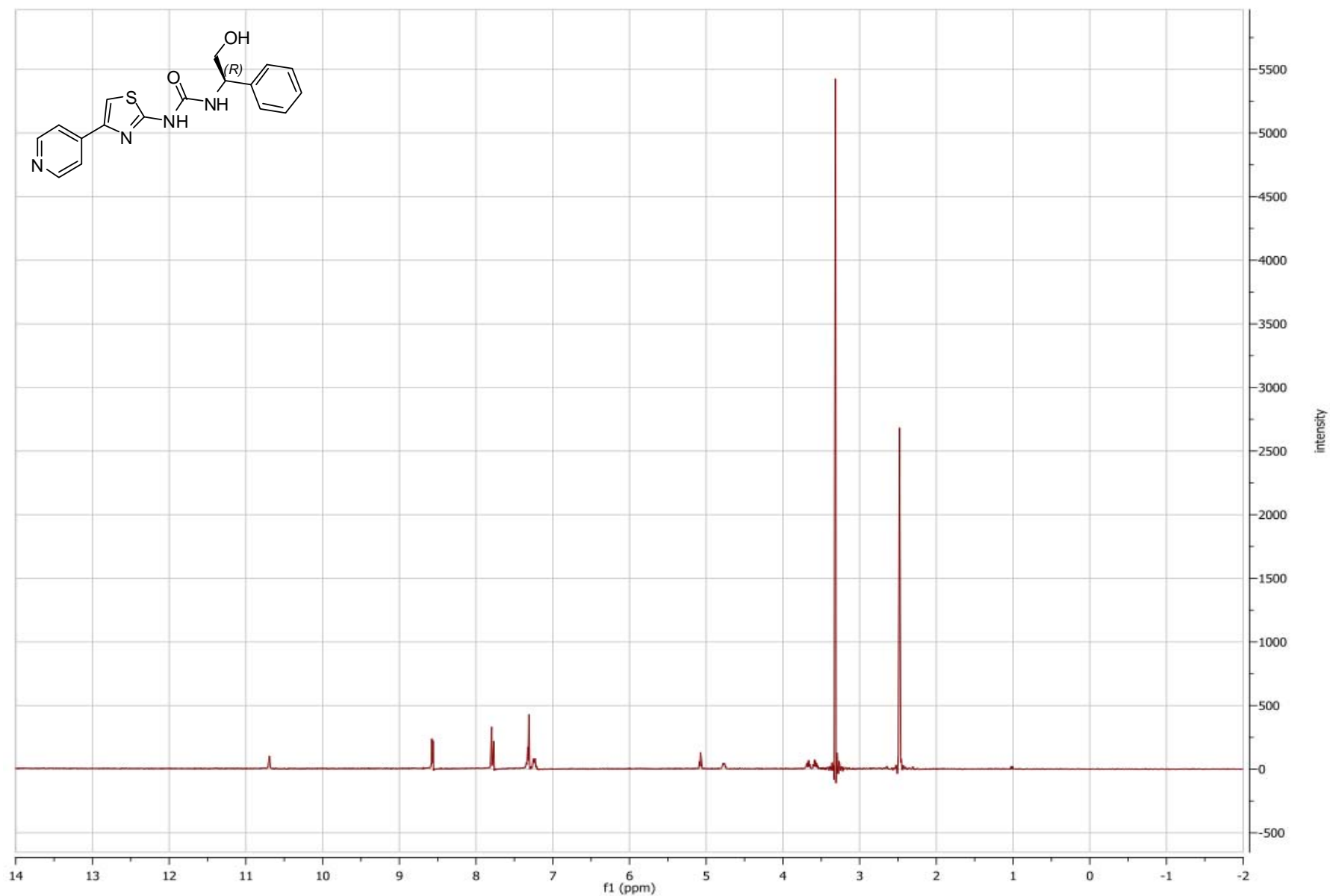
^1H NMR (DMSO- d_6) spectrum of (*S*)-**14b**



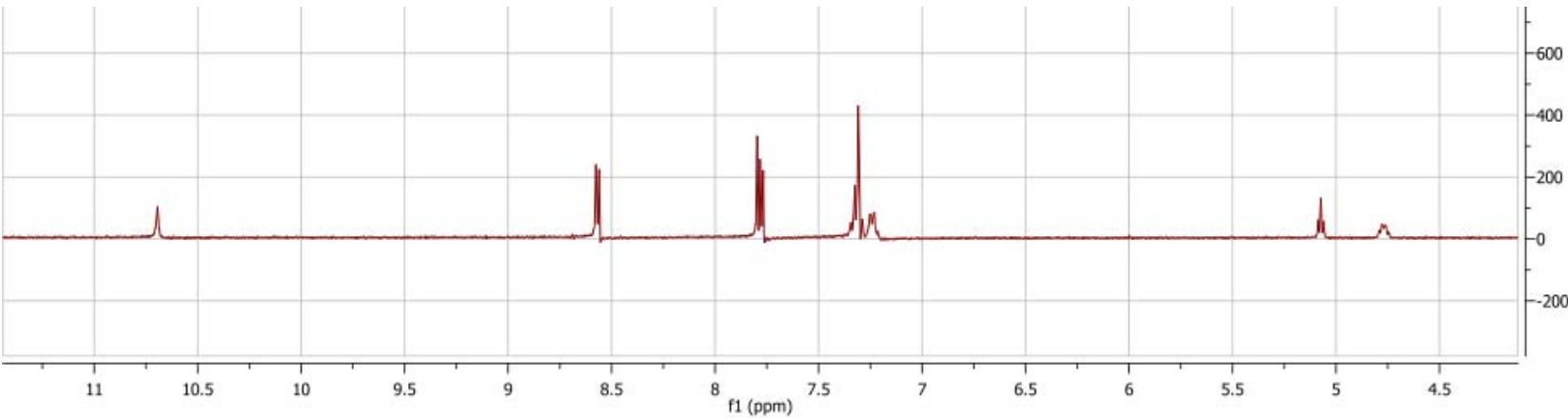
Expansion of the aromatic region of (S)-14b



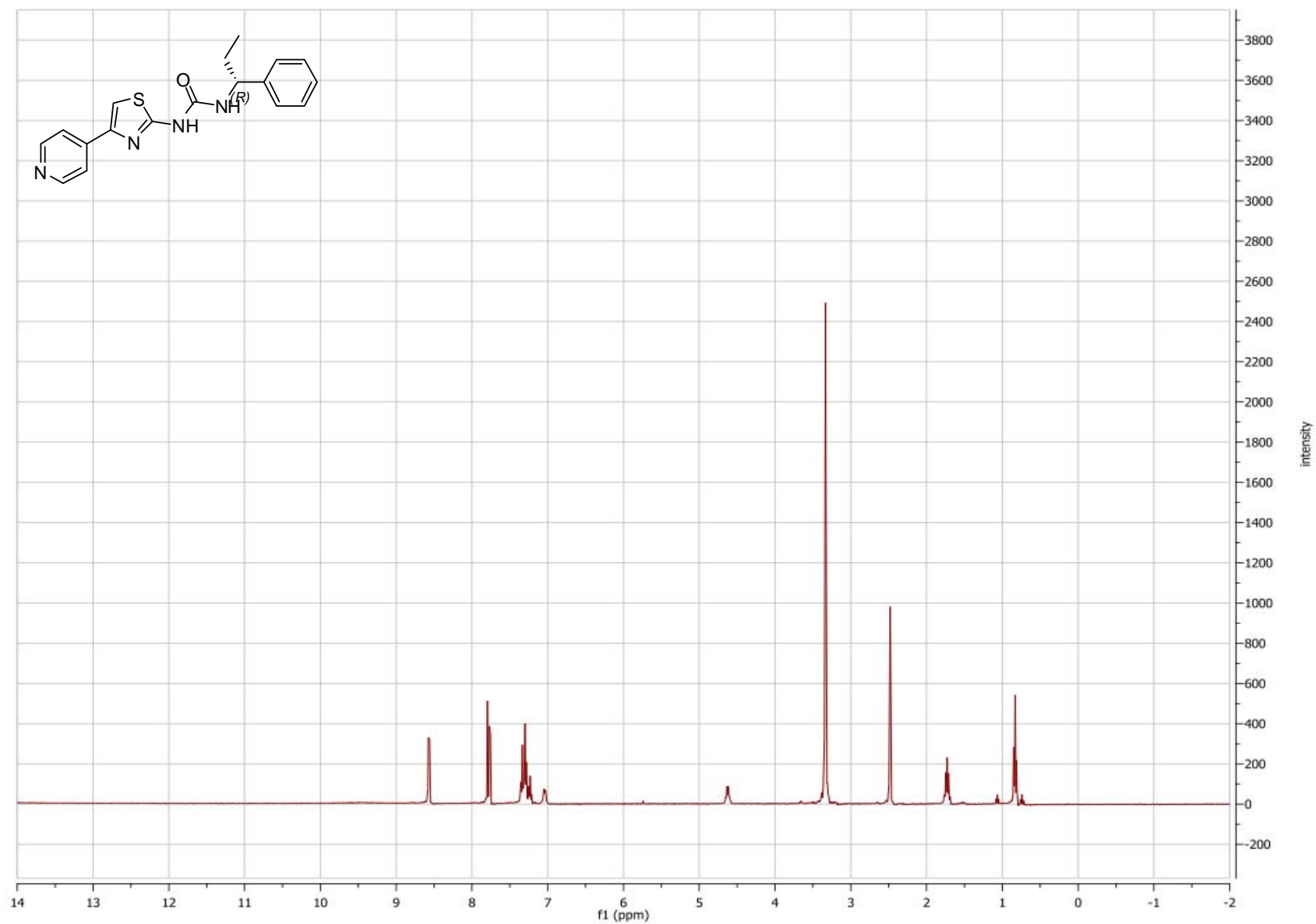
^1H NMR (DMSO- d_6) spectrum of (*R*)-**14b**



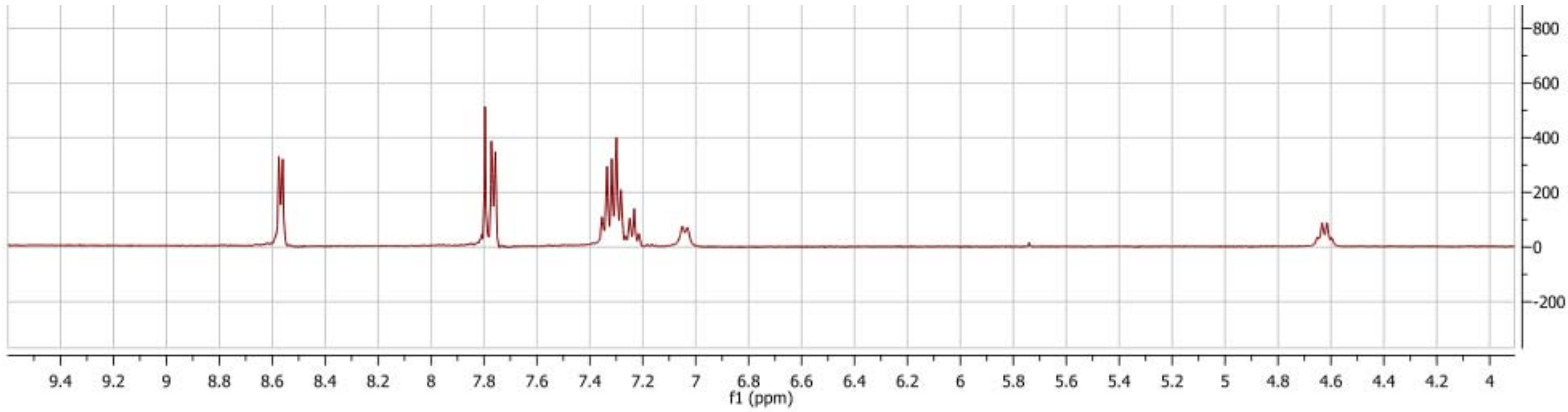
Expansion of the aromatic region of (*R*)-14b



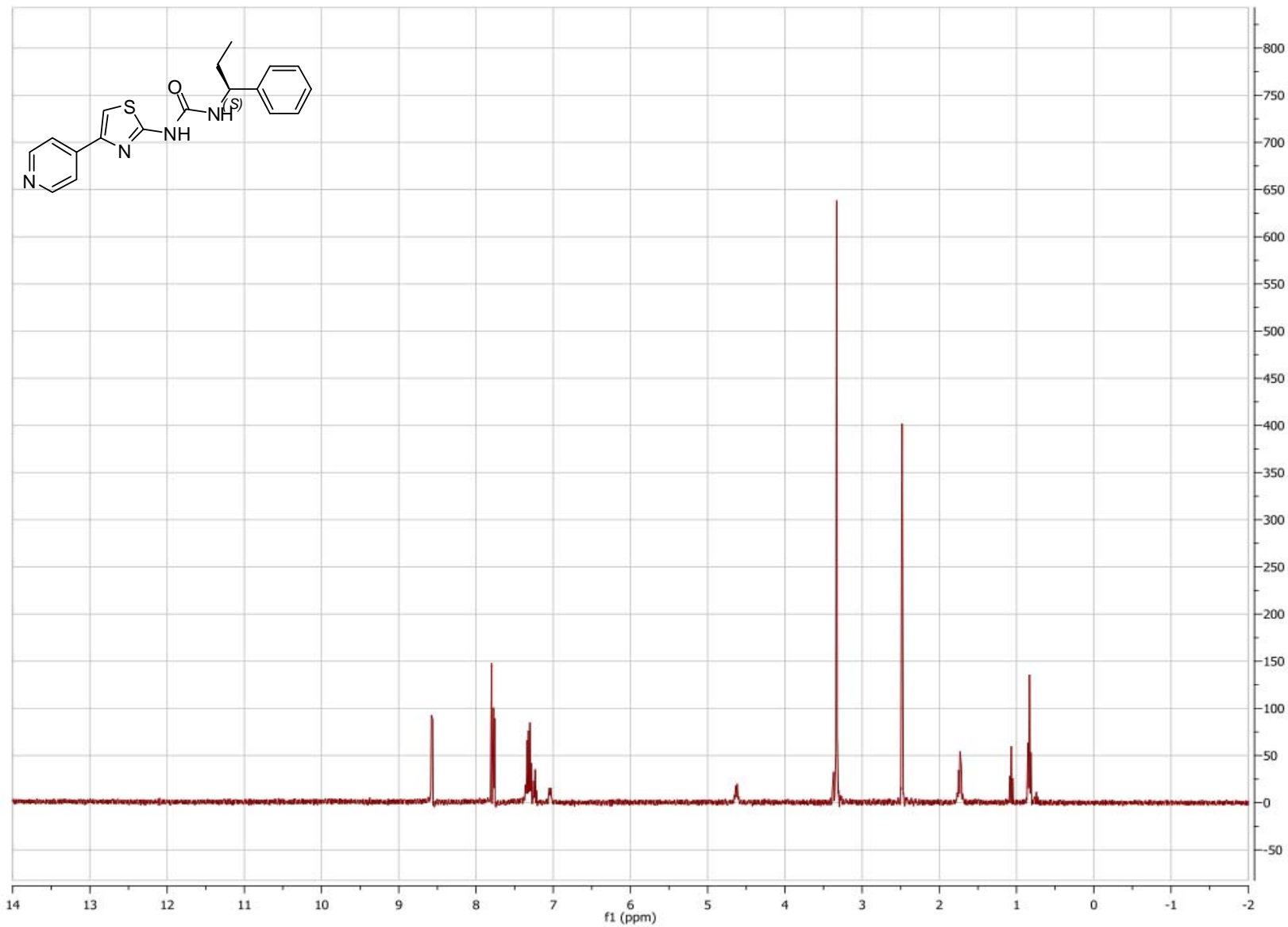
^1H NMR (DMSO- d_6) spectrum of (*R*)-**14c**



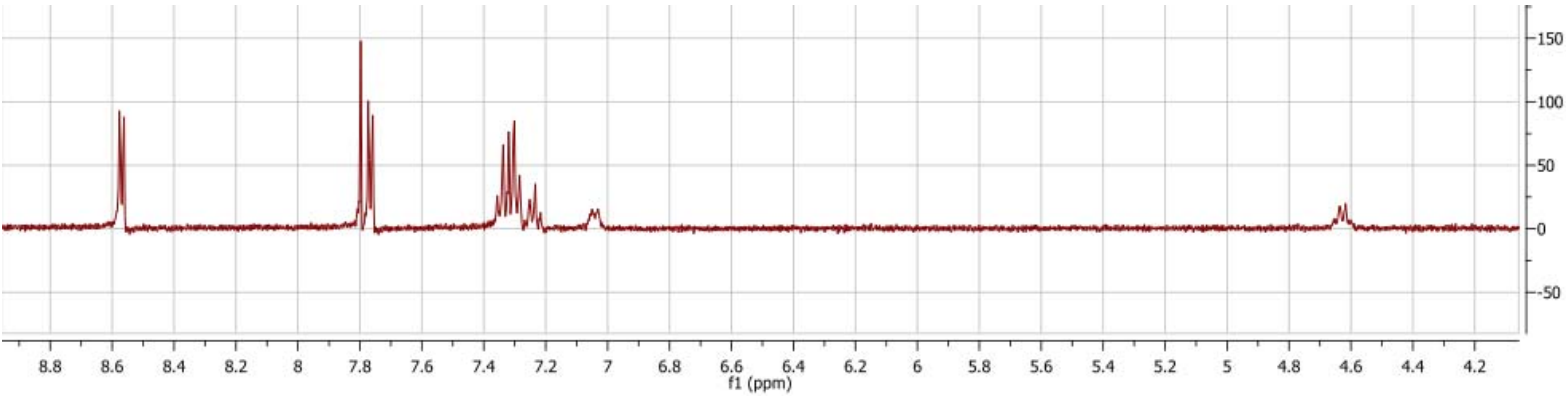
Expansion of the aromatic region of (*R*)-14c



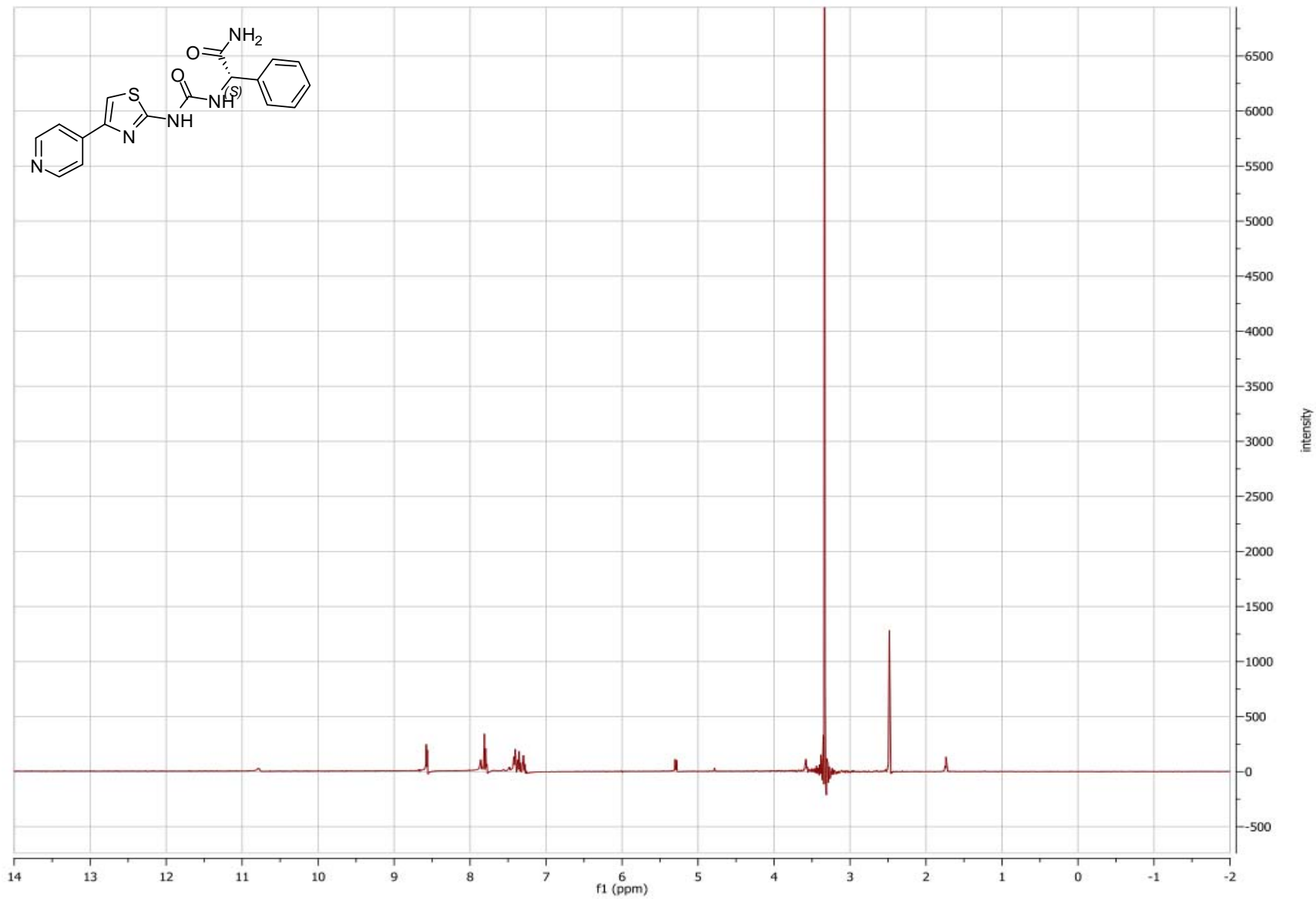
¹H NMR (DMSO-d₆) spectrum of (*S*)-14c



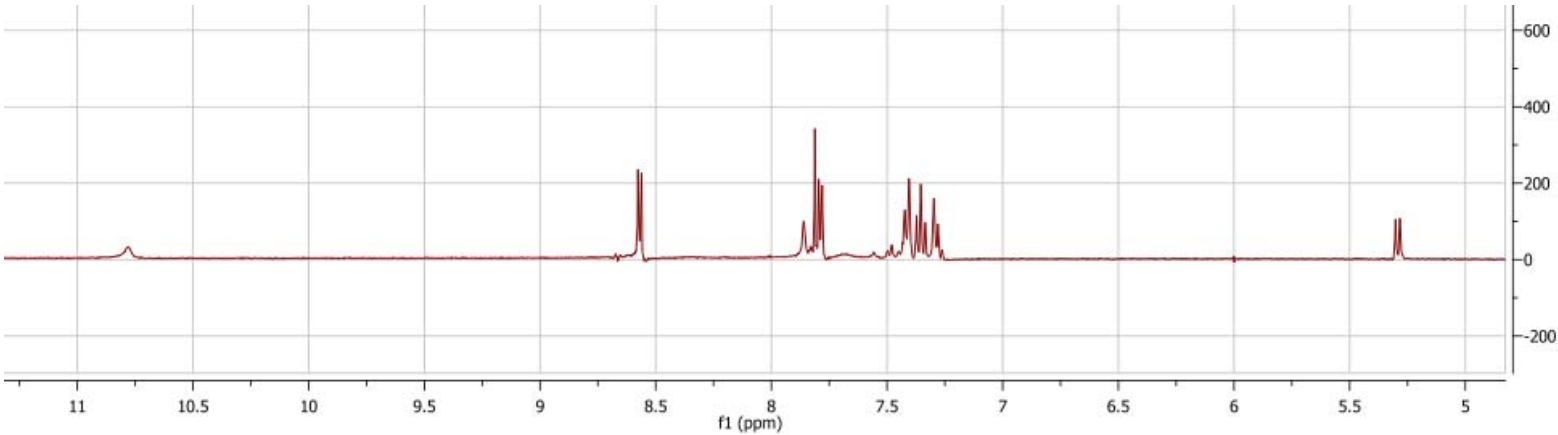
Expansion of the aromatic region of (S)-14c



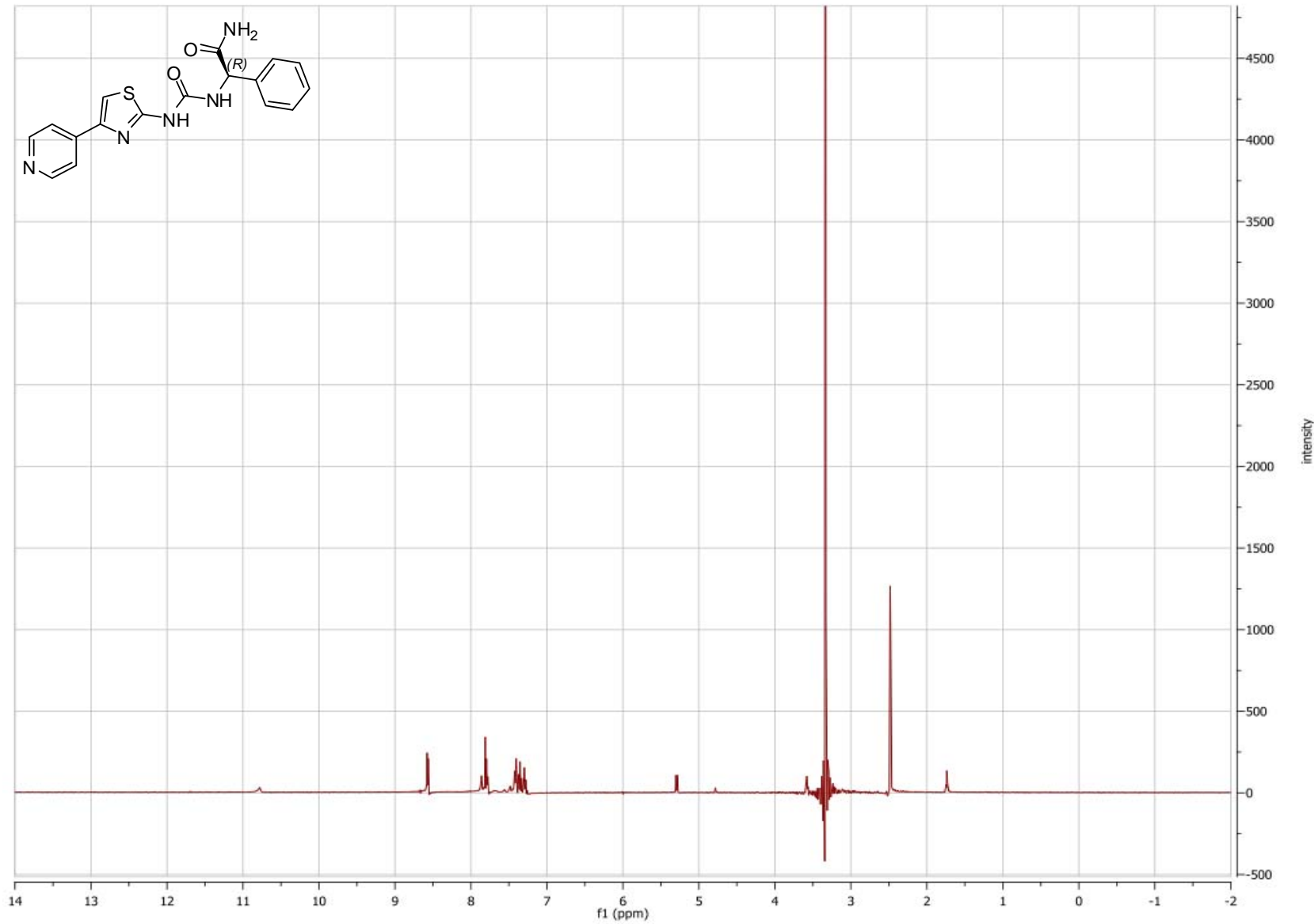
¹H NMR (DMSO-d₆) spectrum of (*S*)-14d



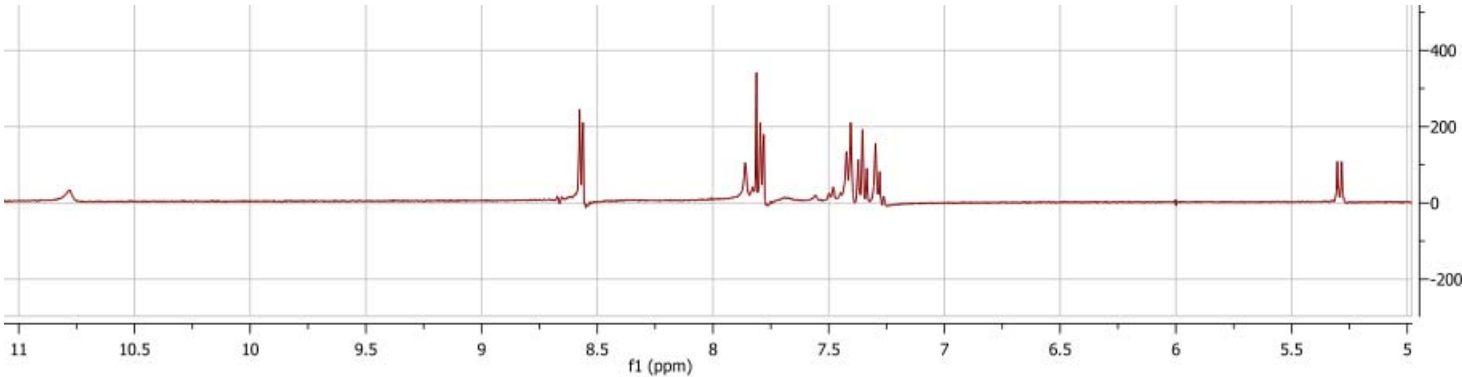
Expansion of the aromatic region of (S)-14d



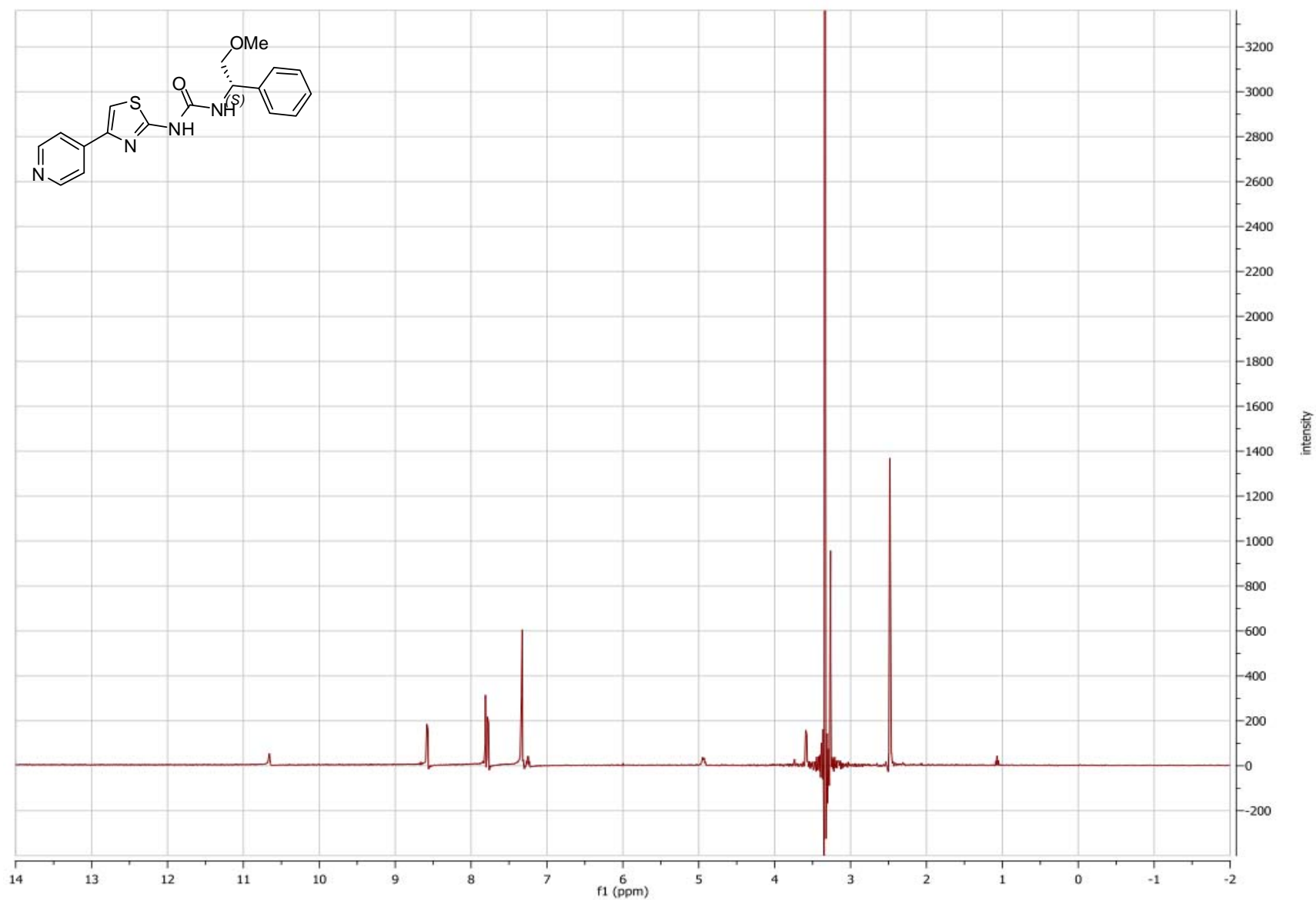
¹H NMR (DMSO-d₆) spectrum of (*R*)-14d



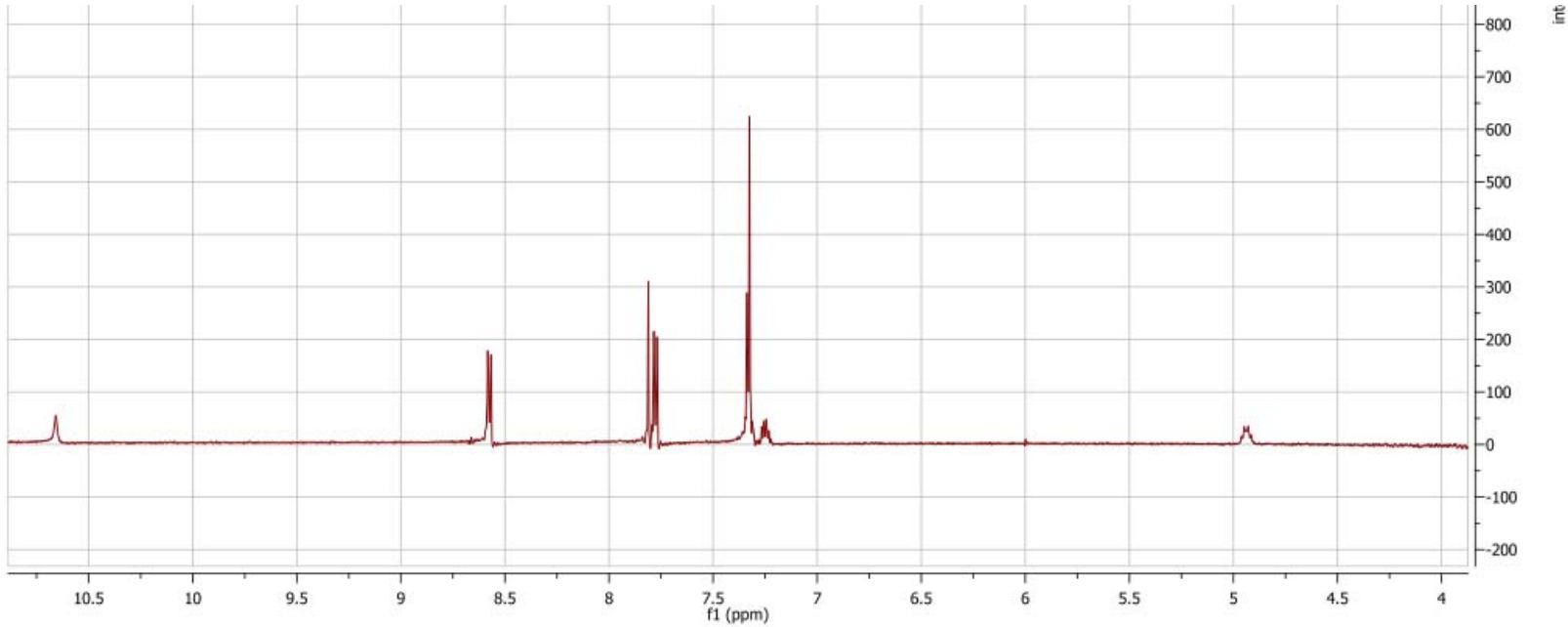
Expansion of the aromatic region of (*R*)-14d



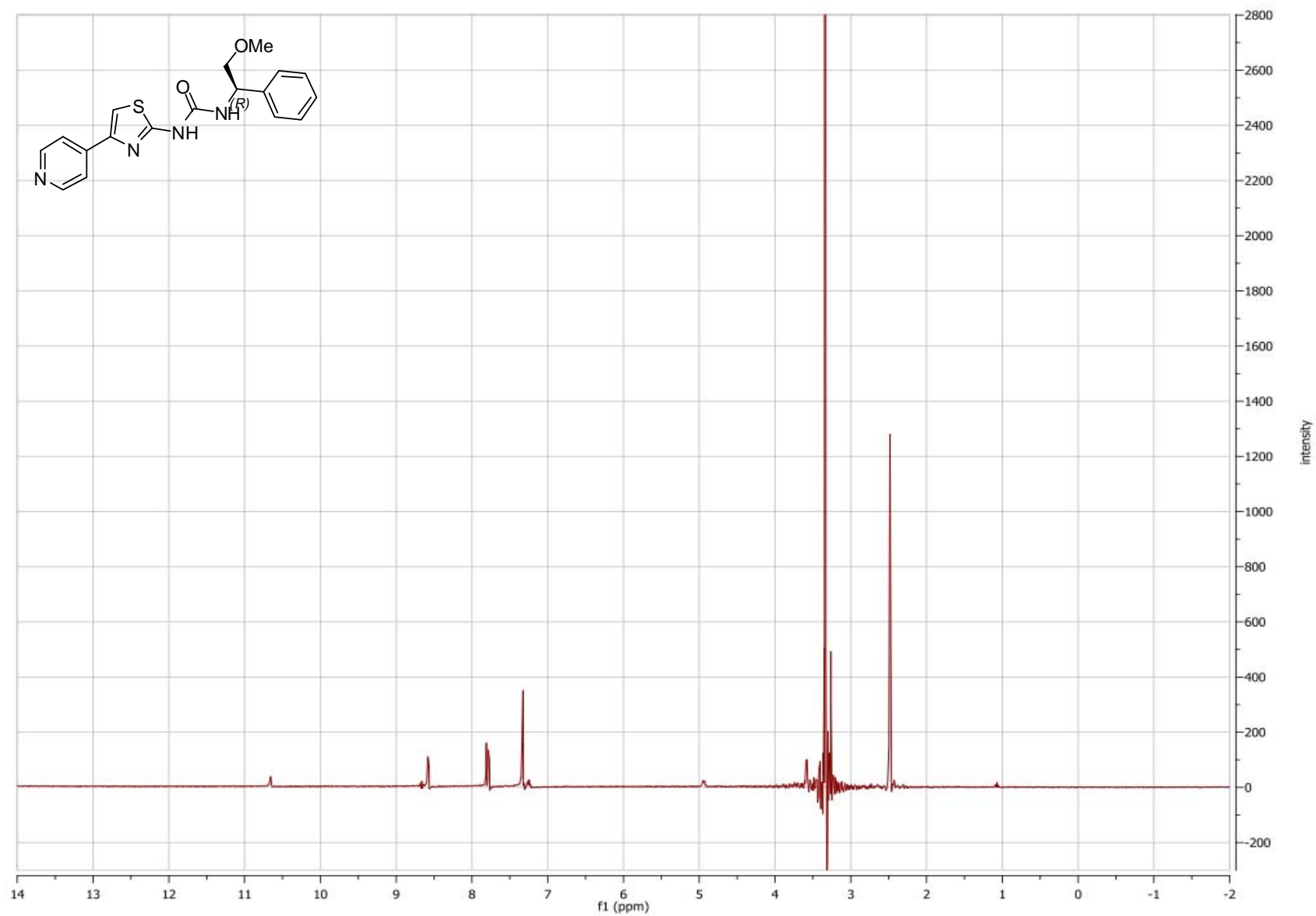
^1H NMR (DMSO- d_6) spectrum of (*R*)-**14e**



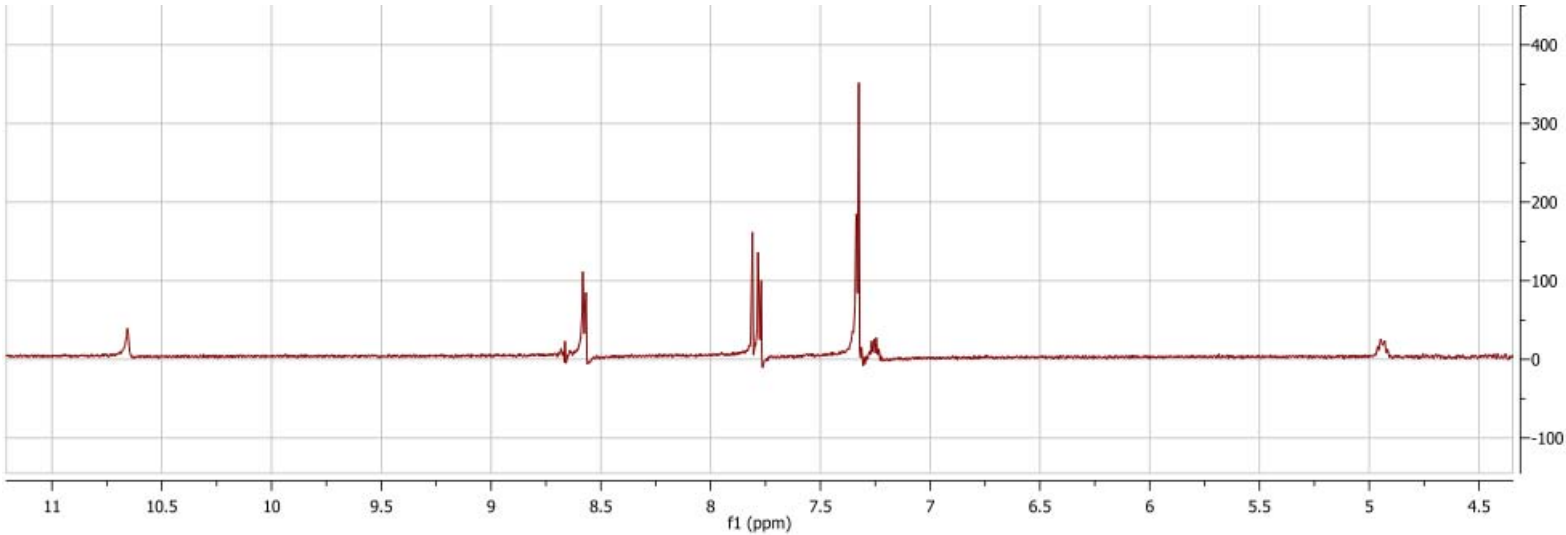
Expansion of the aromatic region of (*R*)-14e



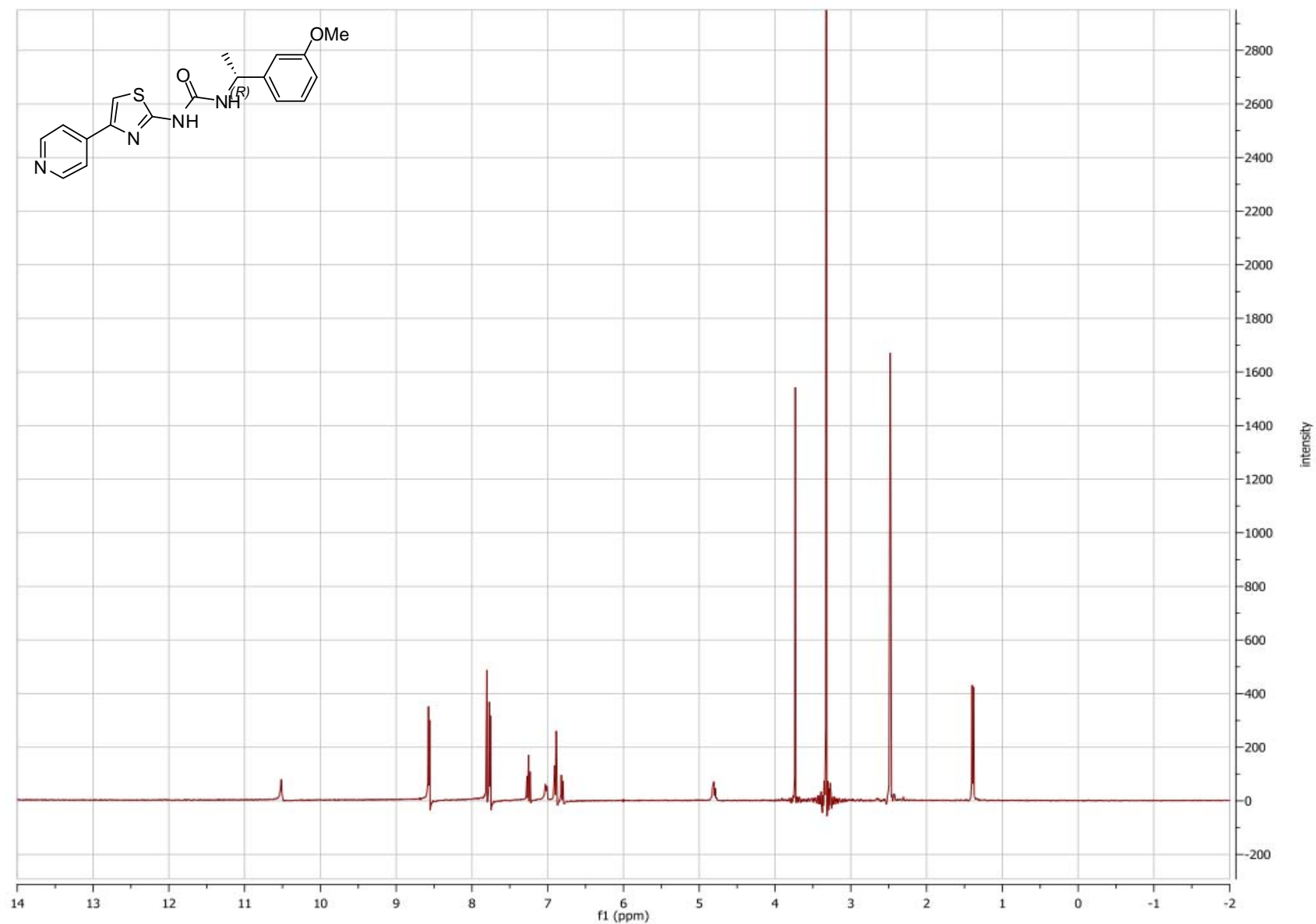
^1H NMR (DMSO- d_6) spectrum of (*S*)-**14e**



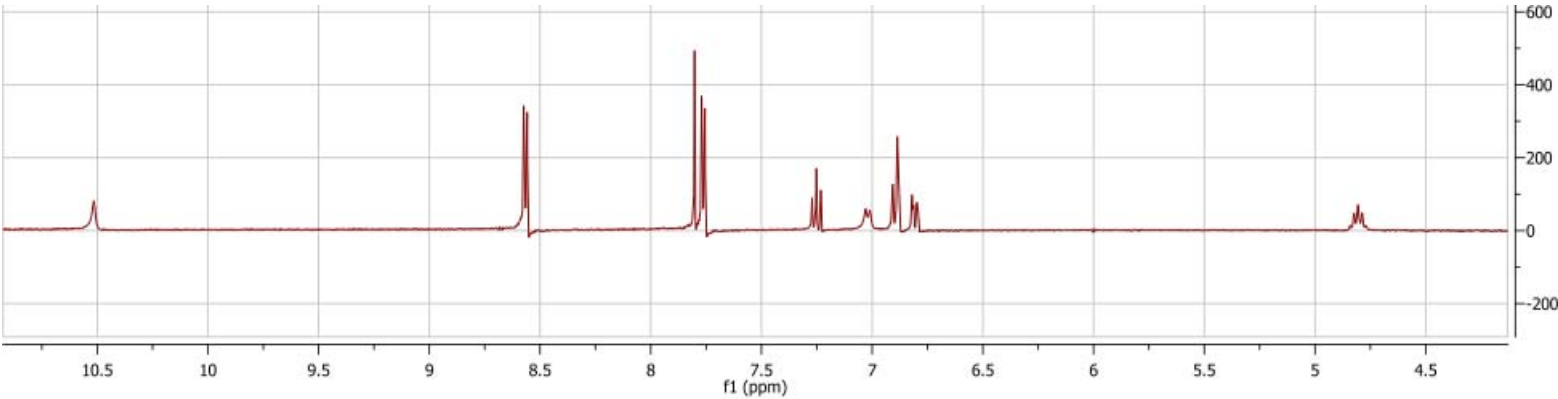
Expansion of the aromatic region of (S)-14e



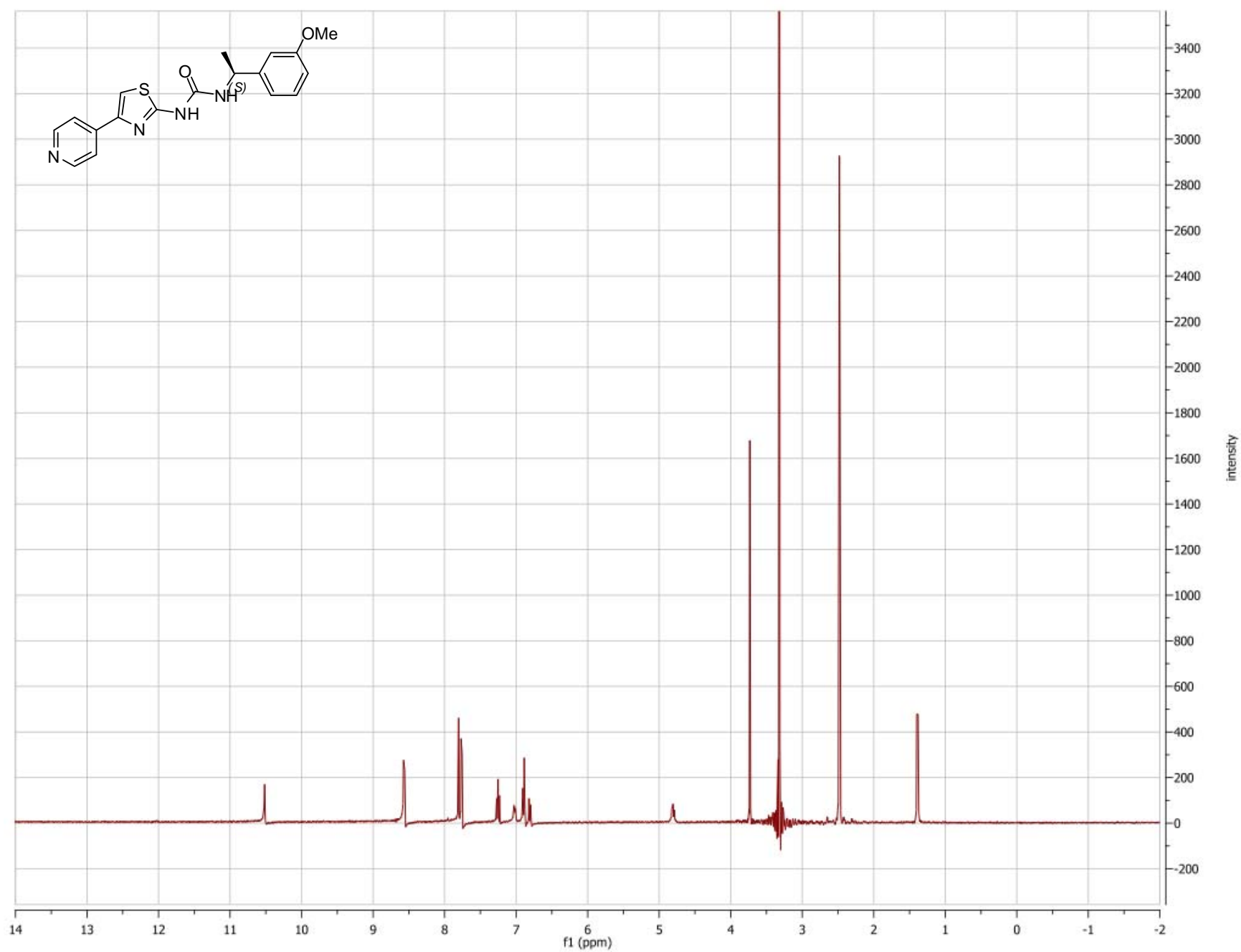
^1H NMR (DMSO- d_6) spectrum of (*R*)-**14f**



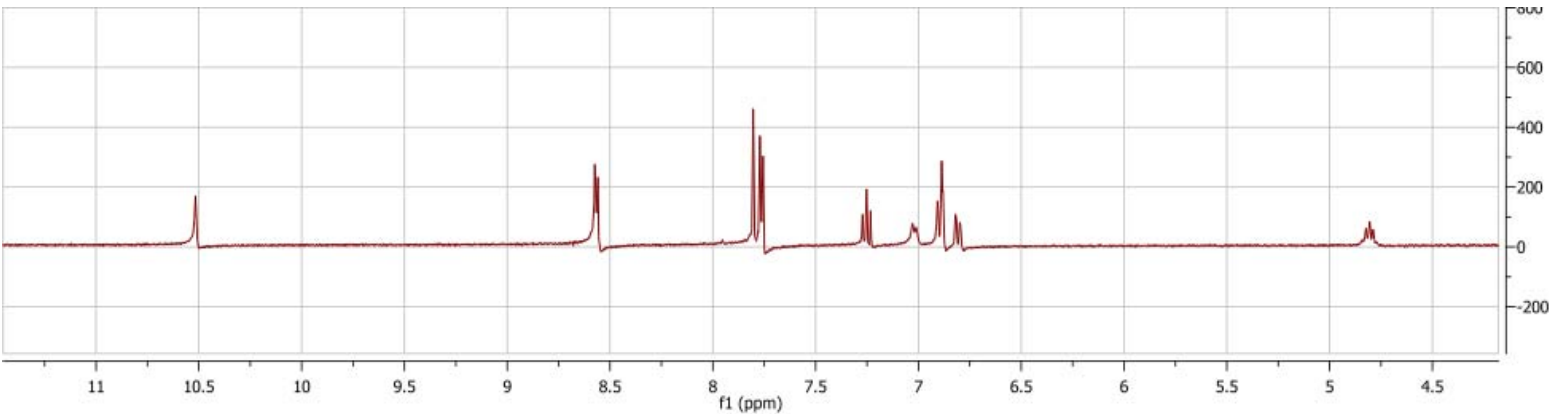
Expansion of the aromatic region of (*R*)-14f



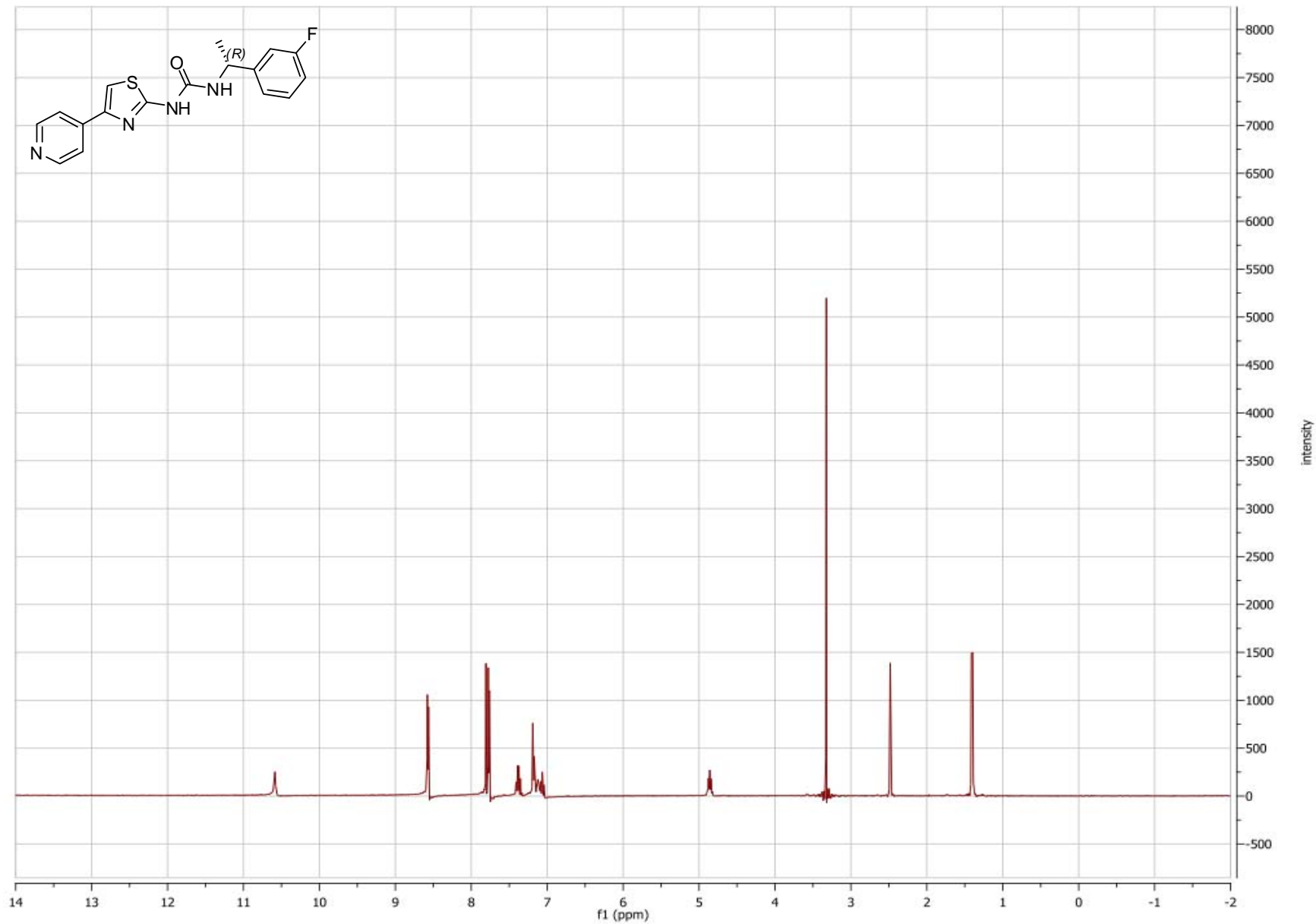
^1H NMR (DMSO- d_6) spectrum of (*S*)-**14f**



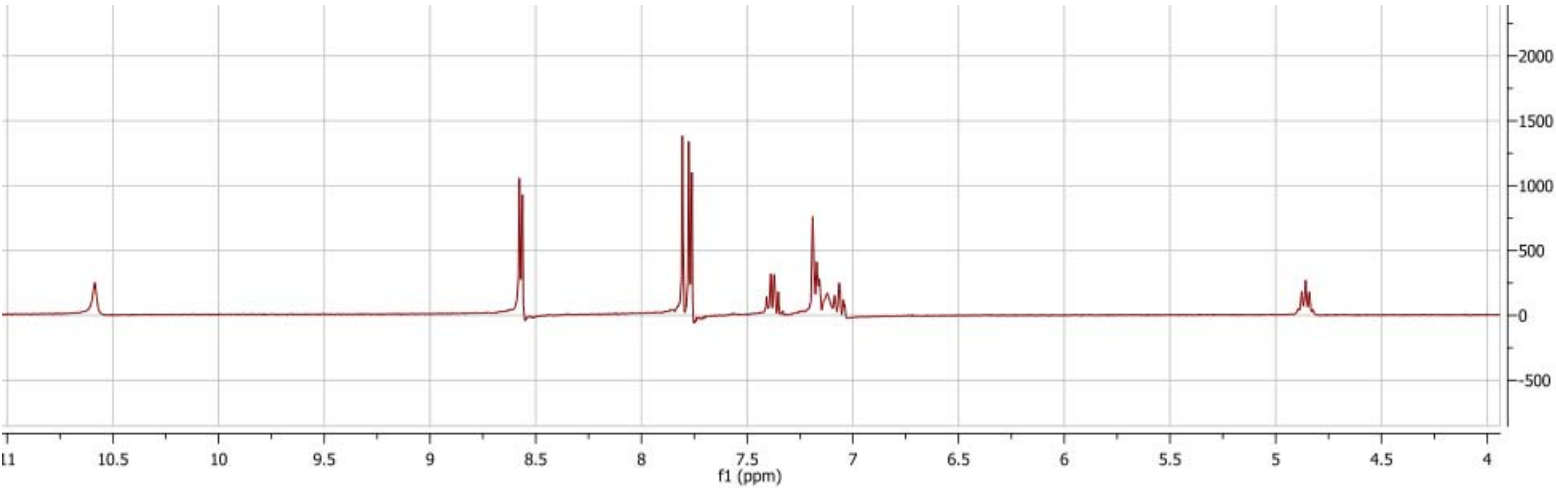
Expansion of the aromatic region of (S)-14f



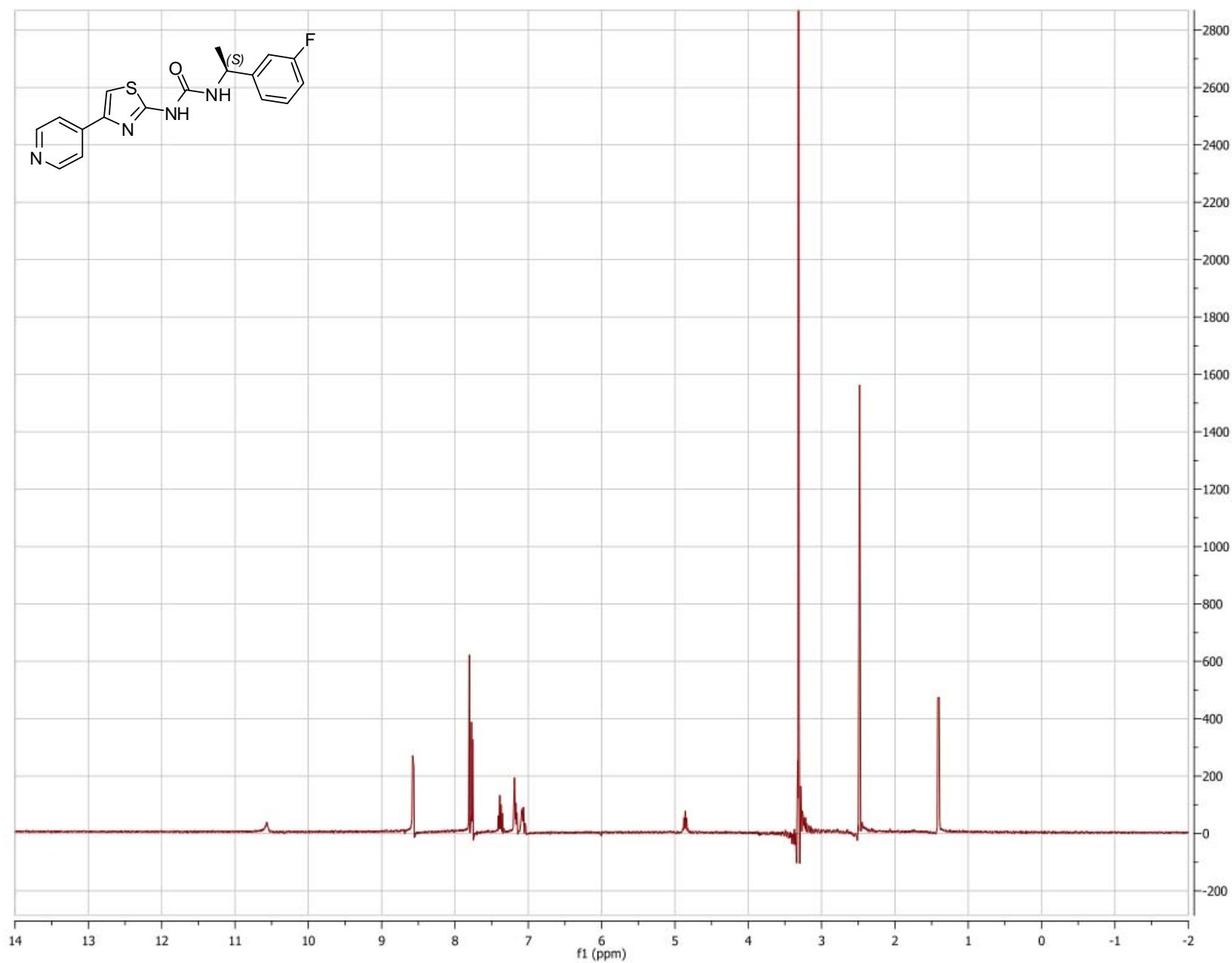
^1H NMR (DMSO- d_6) spectrum of (*R*)-**14g**



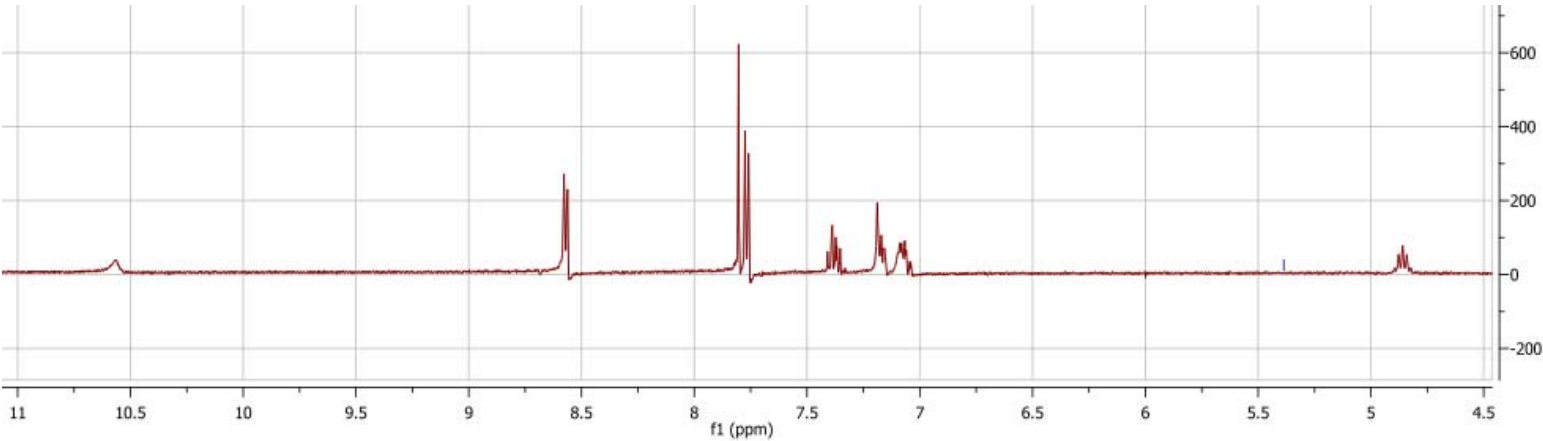
Expansion of the aromatic region of (*R*)-14g



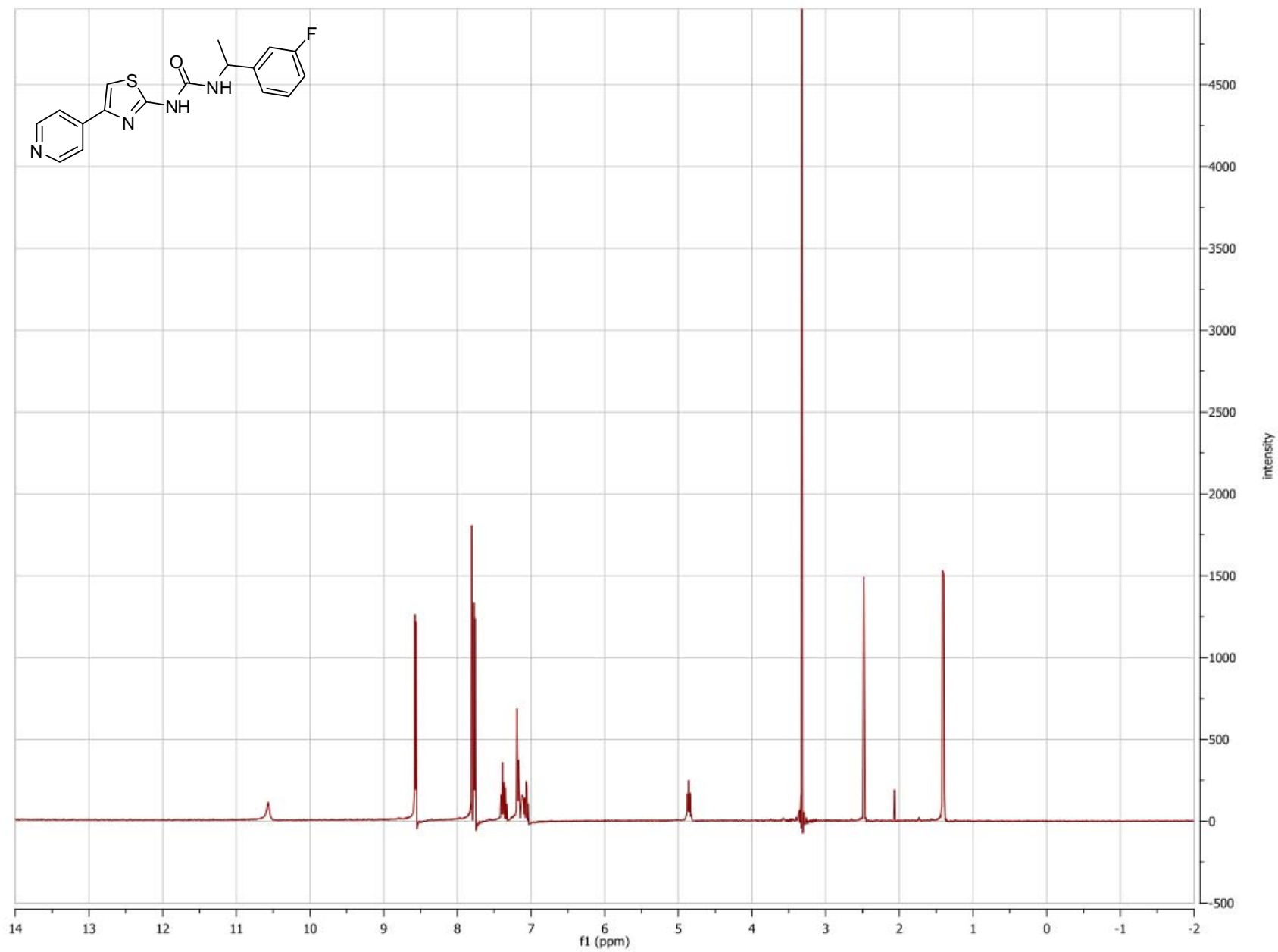
^1H NMR (DMSO- d_6) spectrum of (*S*)-**14g**



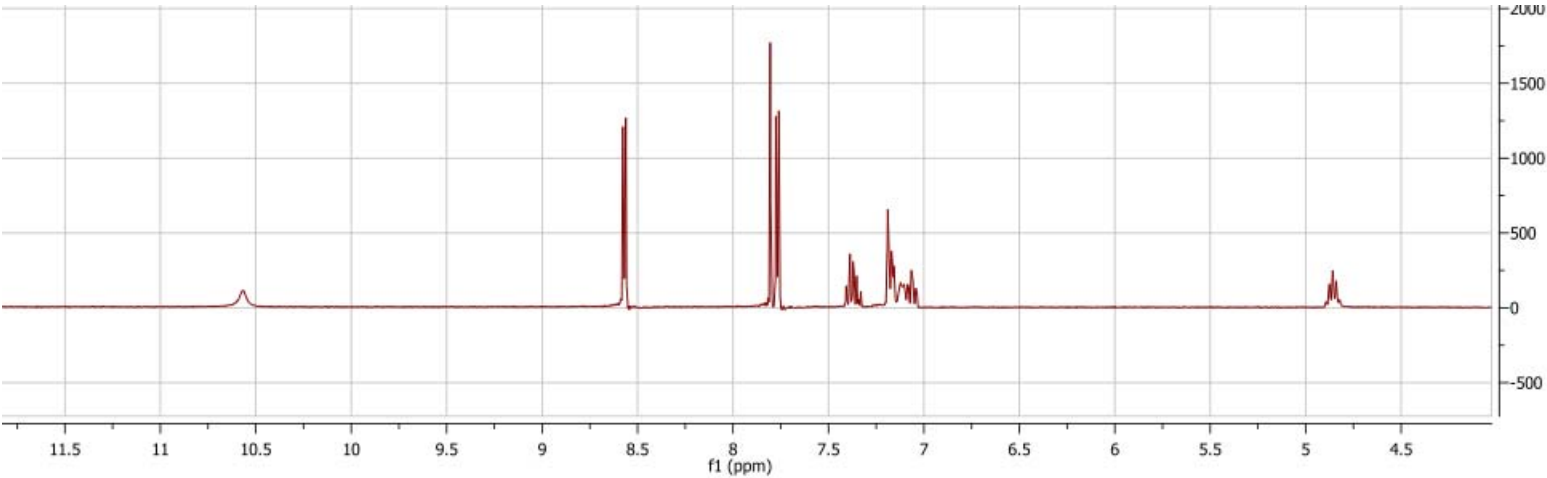
Expansion of the aromatic region of (S)-14g



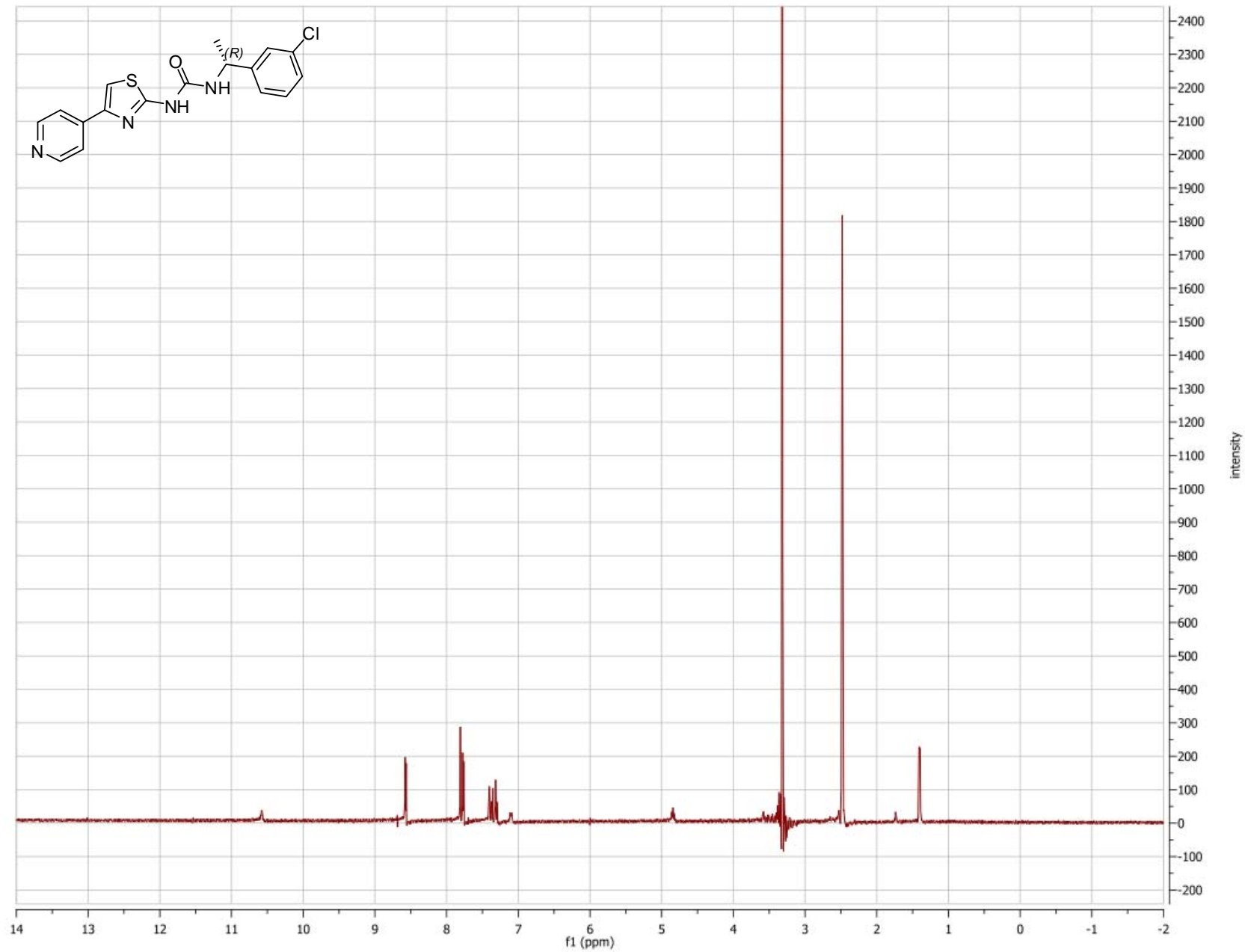
^1H NMR (DMSO- d_6) spectrum of (*R,S*)-**14g**



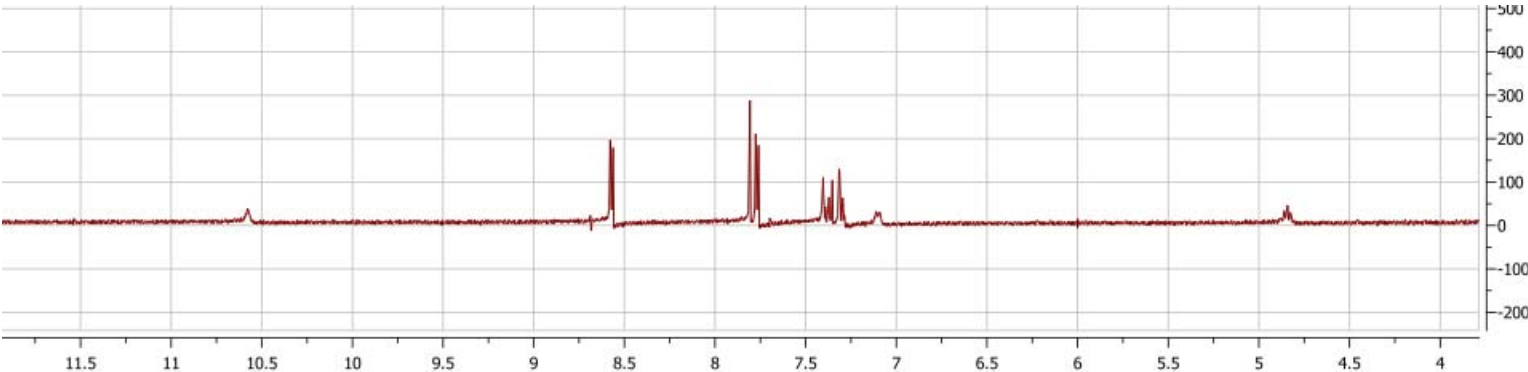
Expansion of the aromatic region of (*R,S*)-14g



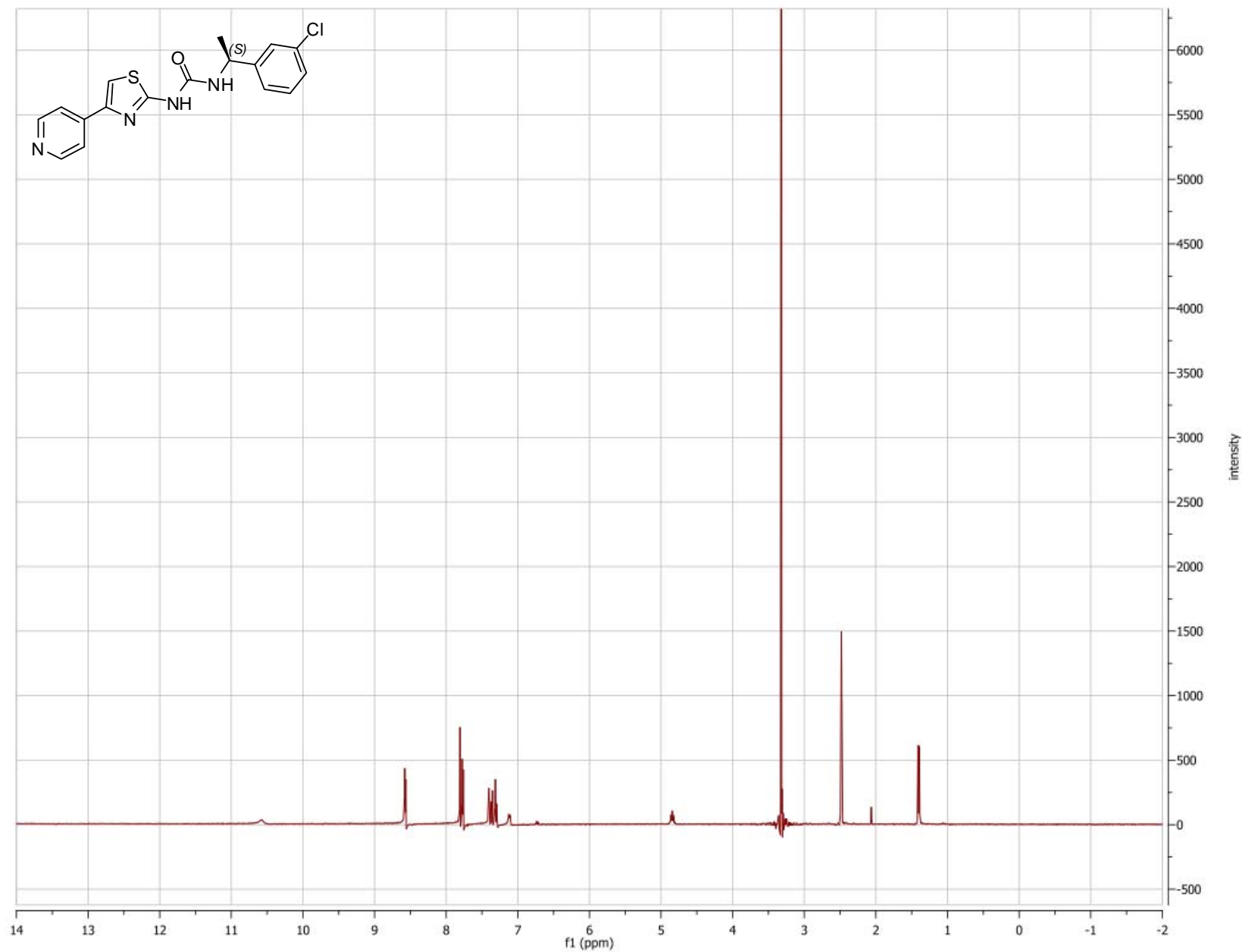
^1H NMR (DMSO- d_6) spectrum of (*R*)-**14h**



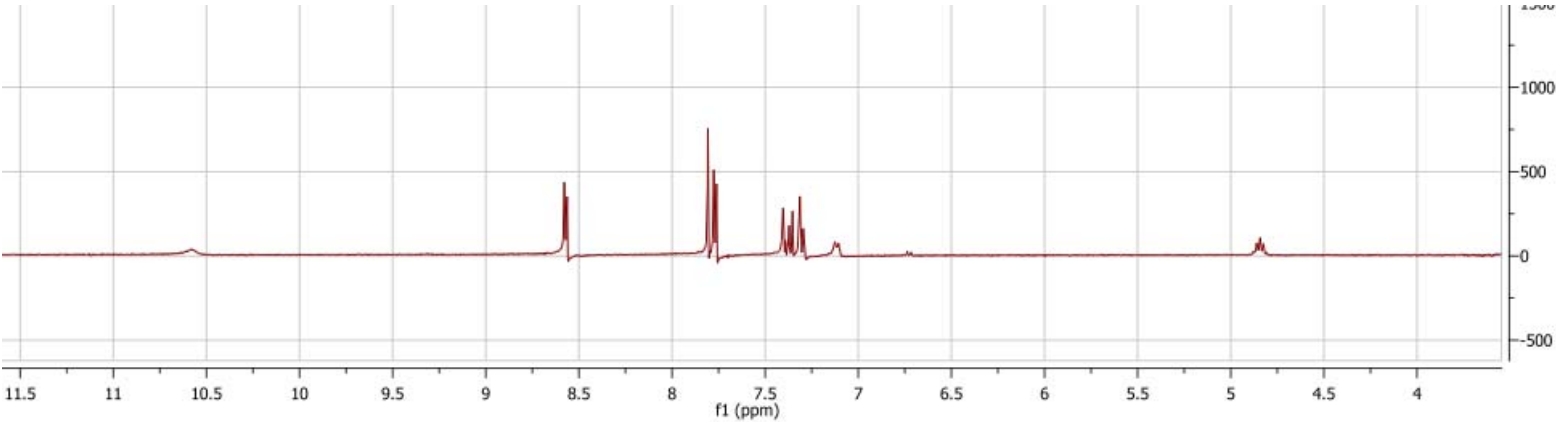
Expansion of the aromatic region of (*R*)-14h



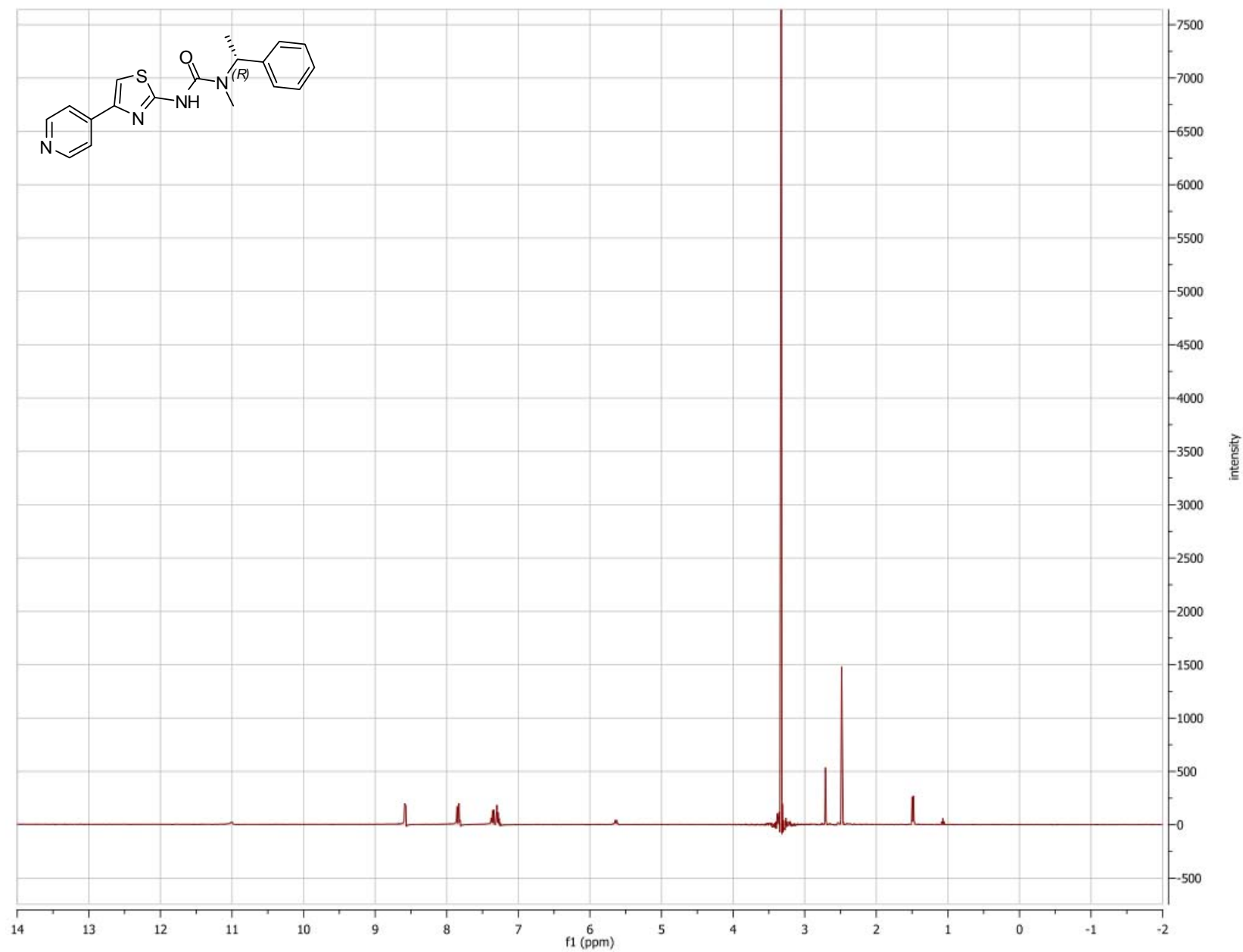
^1H NMR (DMSO- d_6) spectrum of (*S*)-**14g**



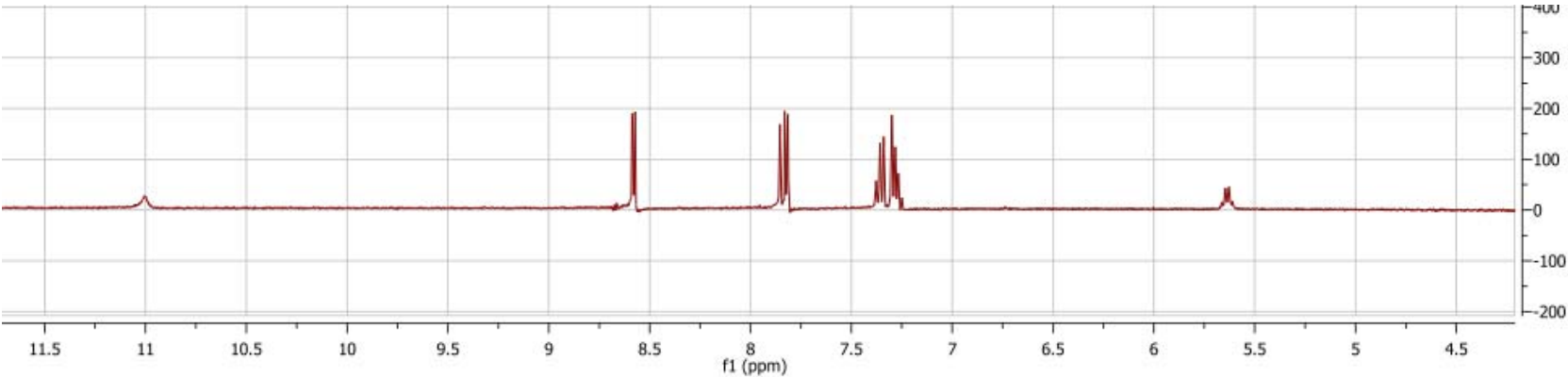
Expansion of the aromatic region of (S)-14g



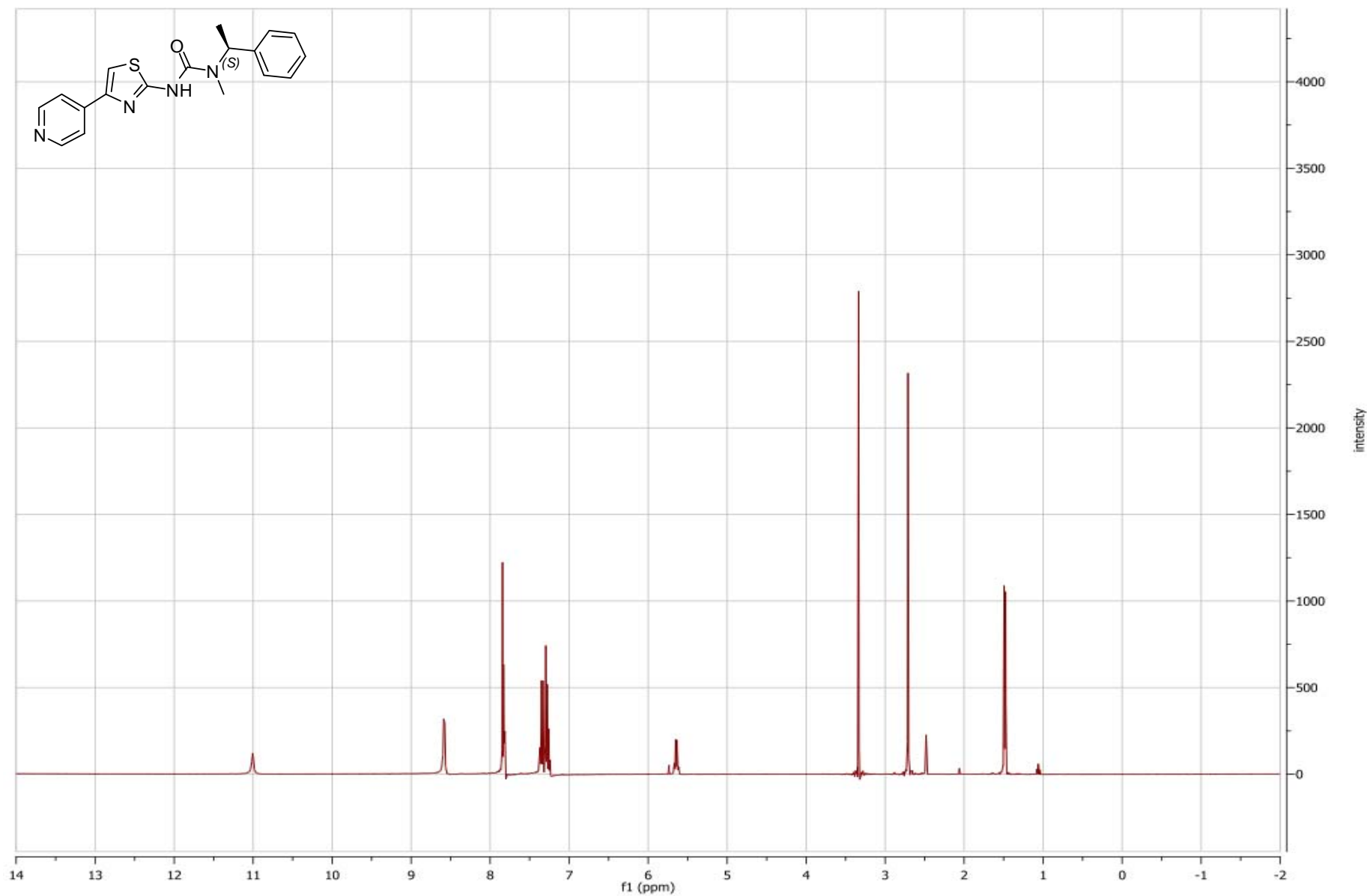
^1H NMR (DMSO- d_6) spectrum of (*R*)-**14i**



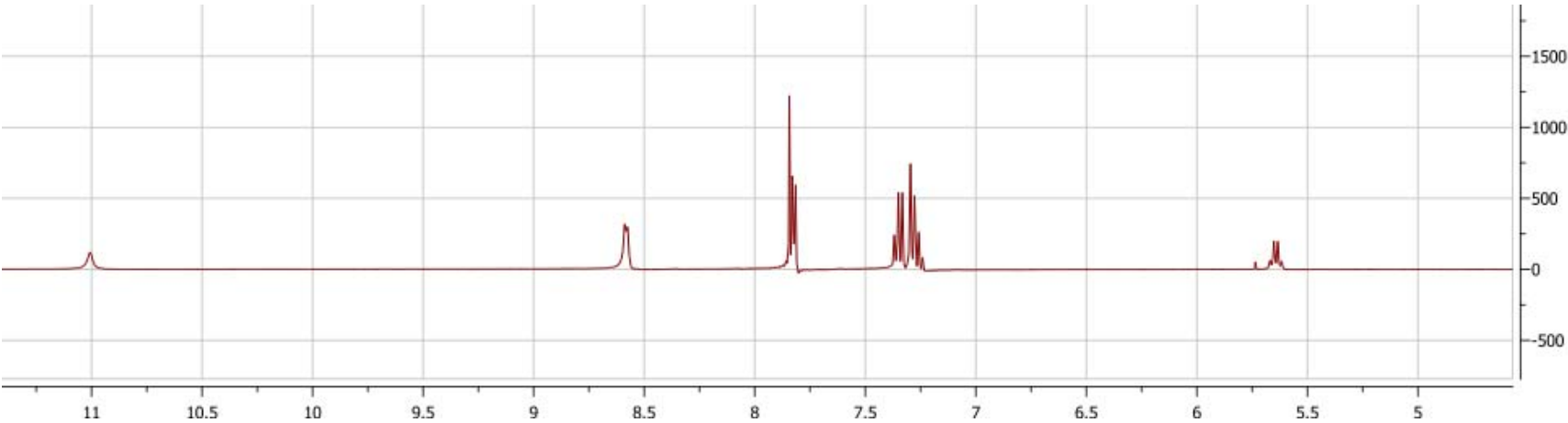
Expansion of the aromatic region of (*R*)-14i



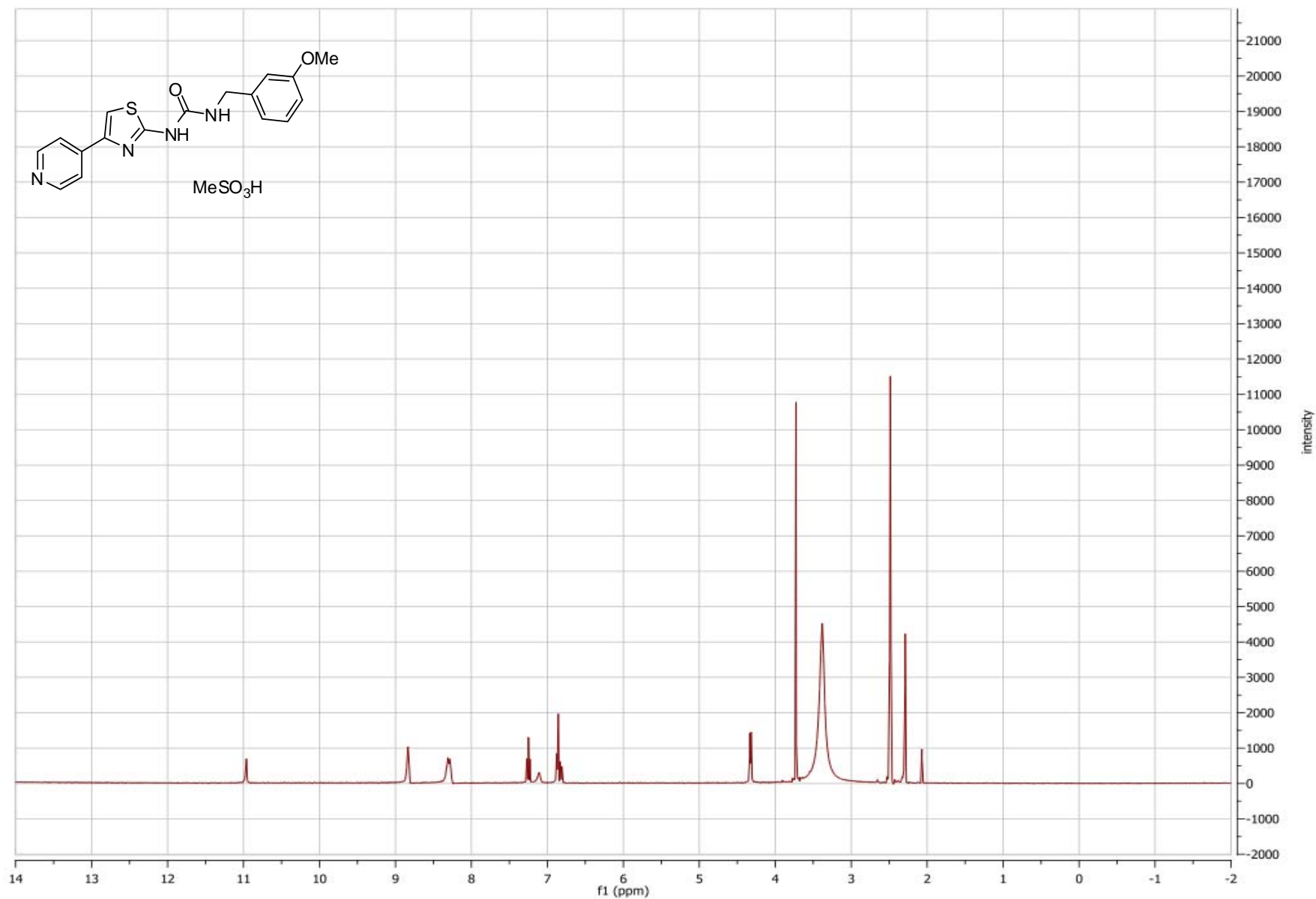
^1H NMR (DMSO-d_6) spectrum of (*S*)-**14i**.



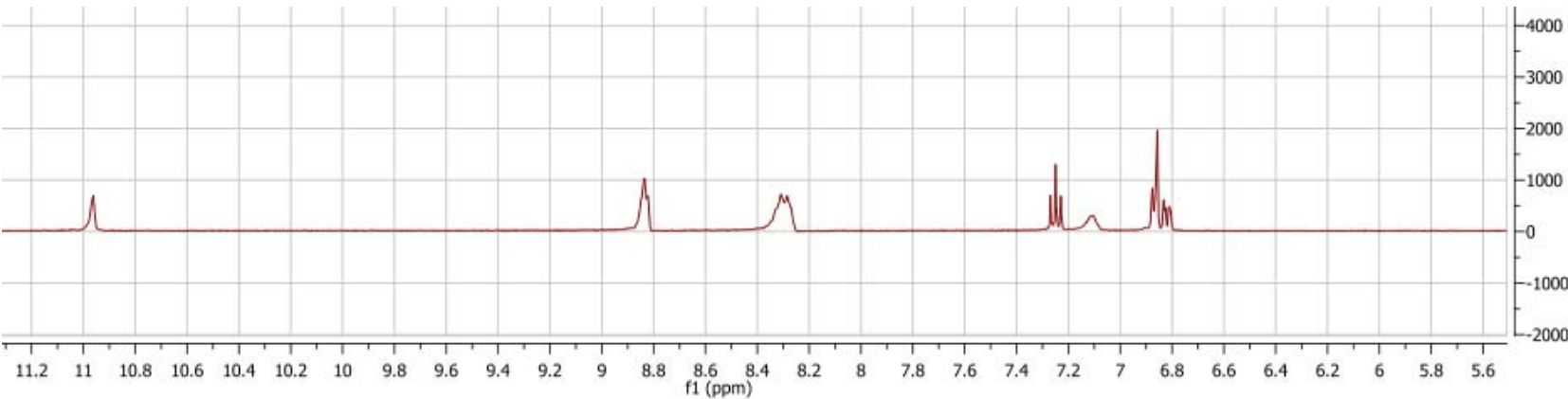
Expansion of the aromatic region of (S)-14i.



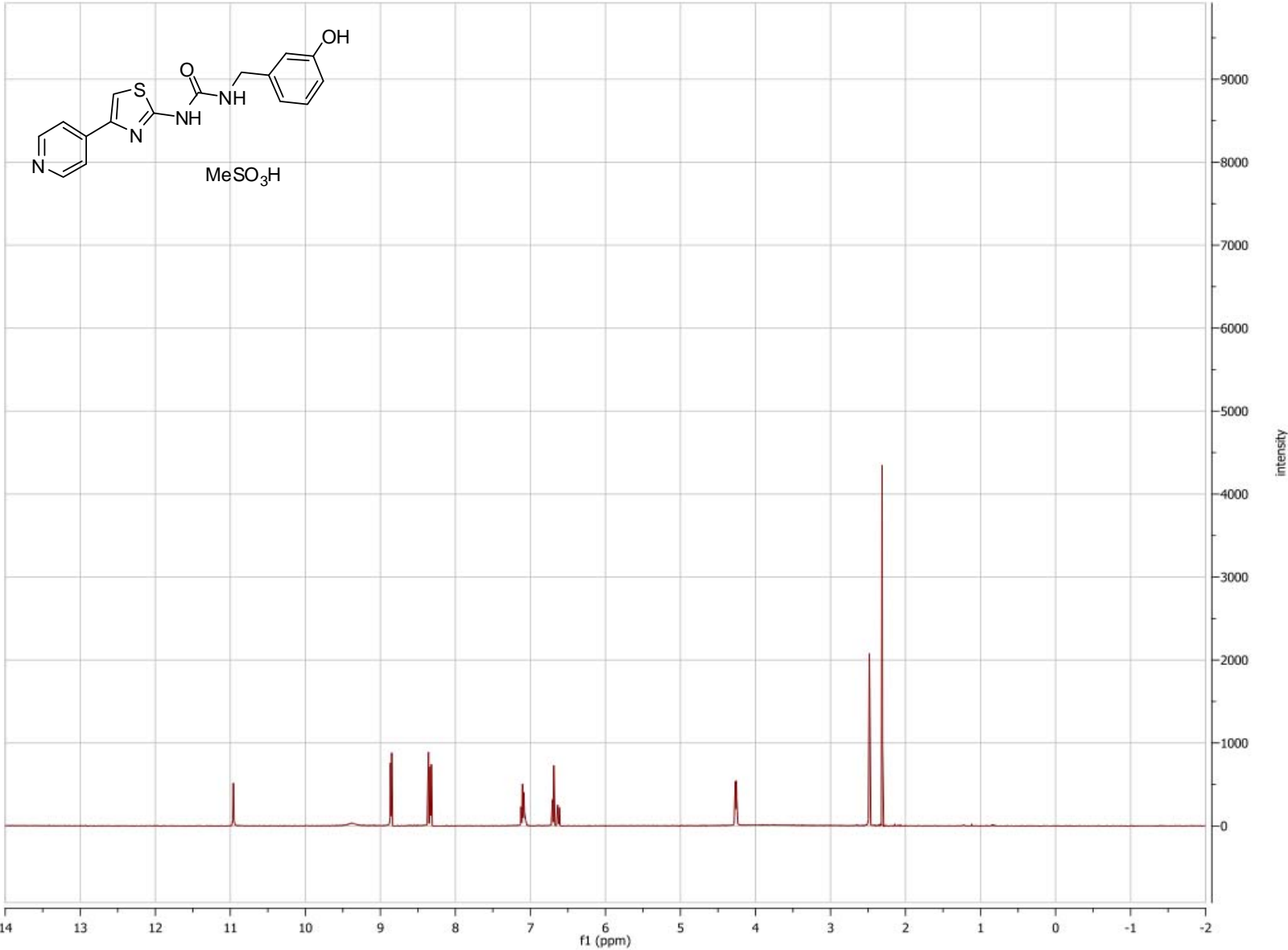
^1H NMR (DMSO- d_6) spectrum of **5b-Mes**



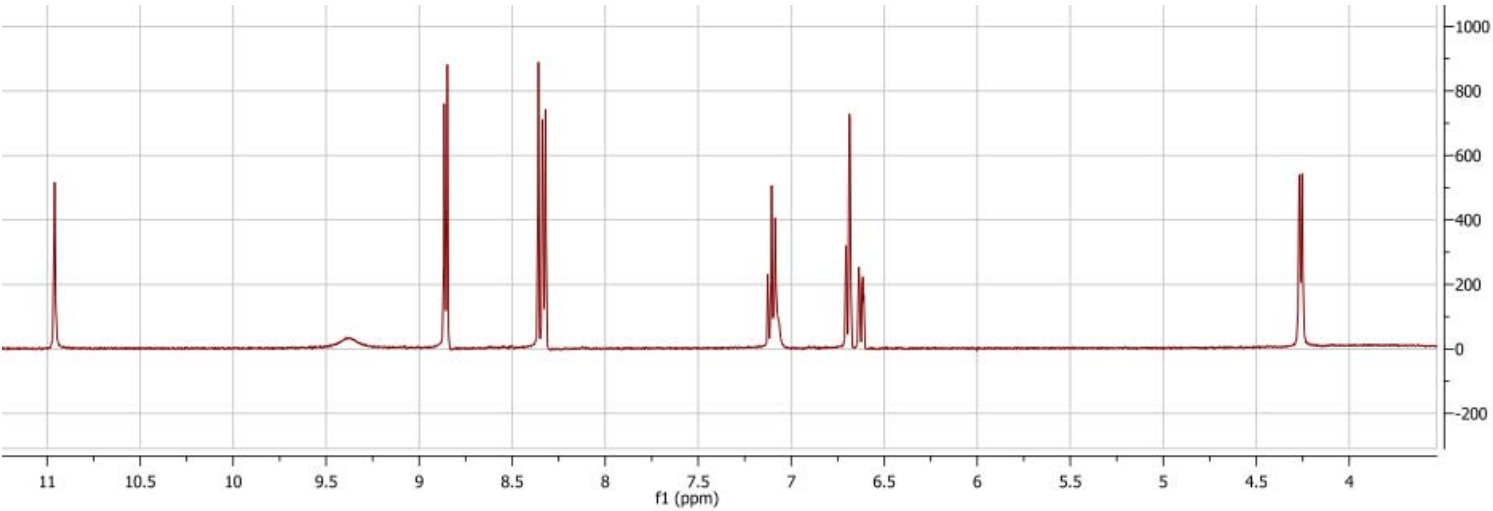
Expansion of the aromatic region of **5b-Mes**



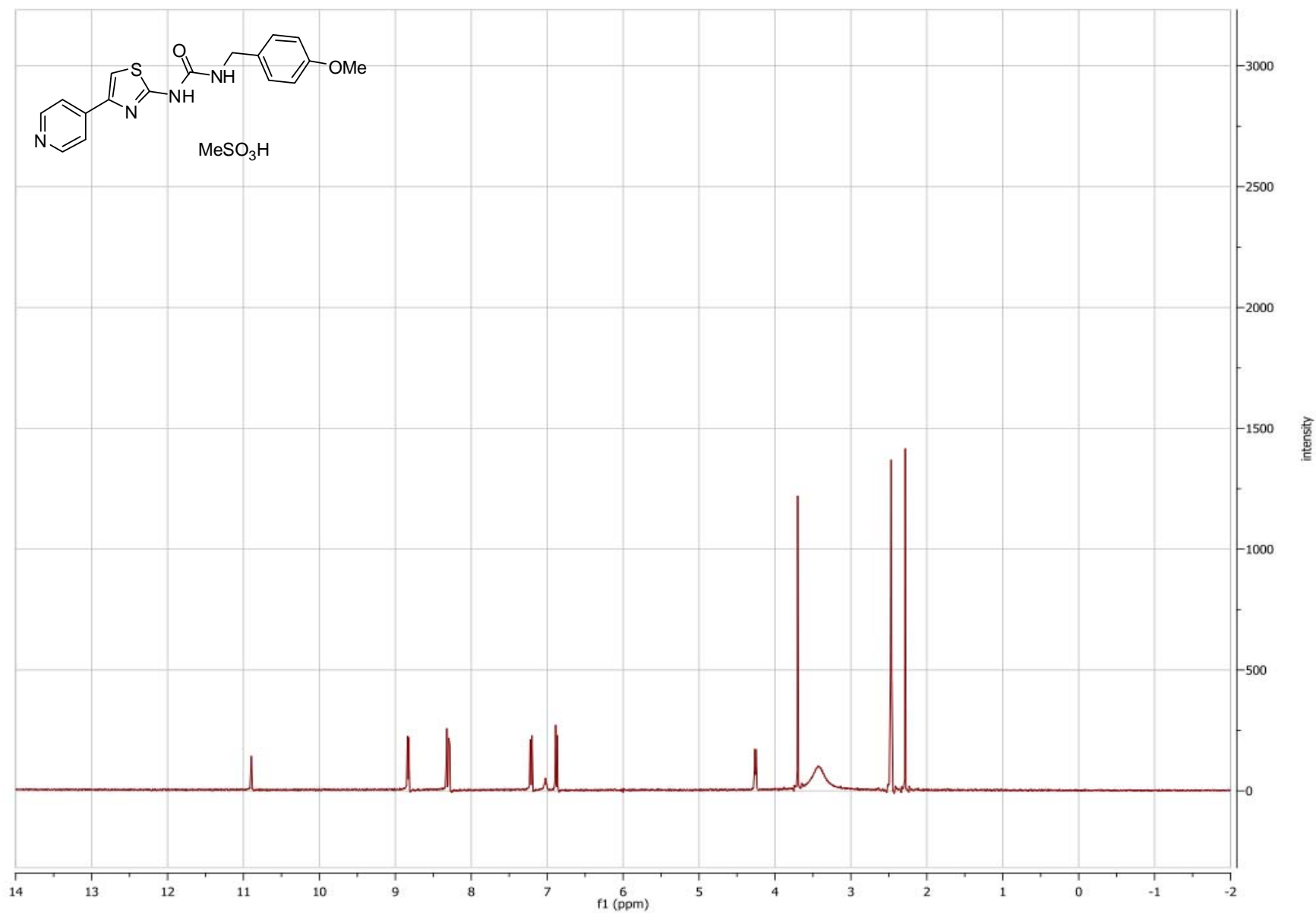
¹H NMR (DMSO-d₆) spectrum of **5g-Mes**



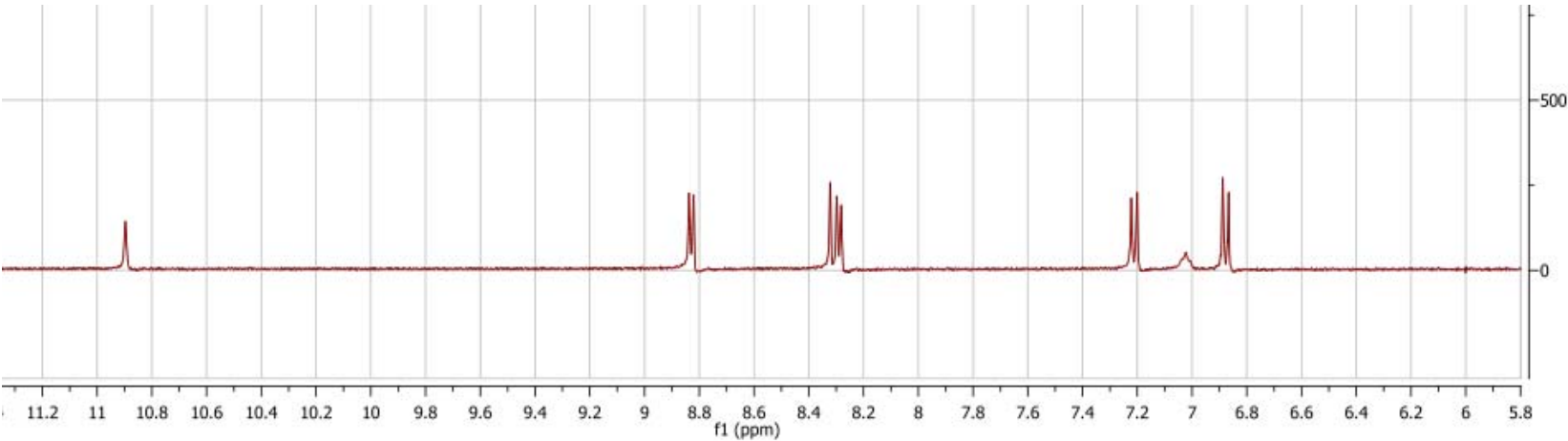
Expansion of the aromatic region of **5g-Mes**



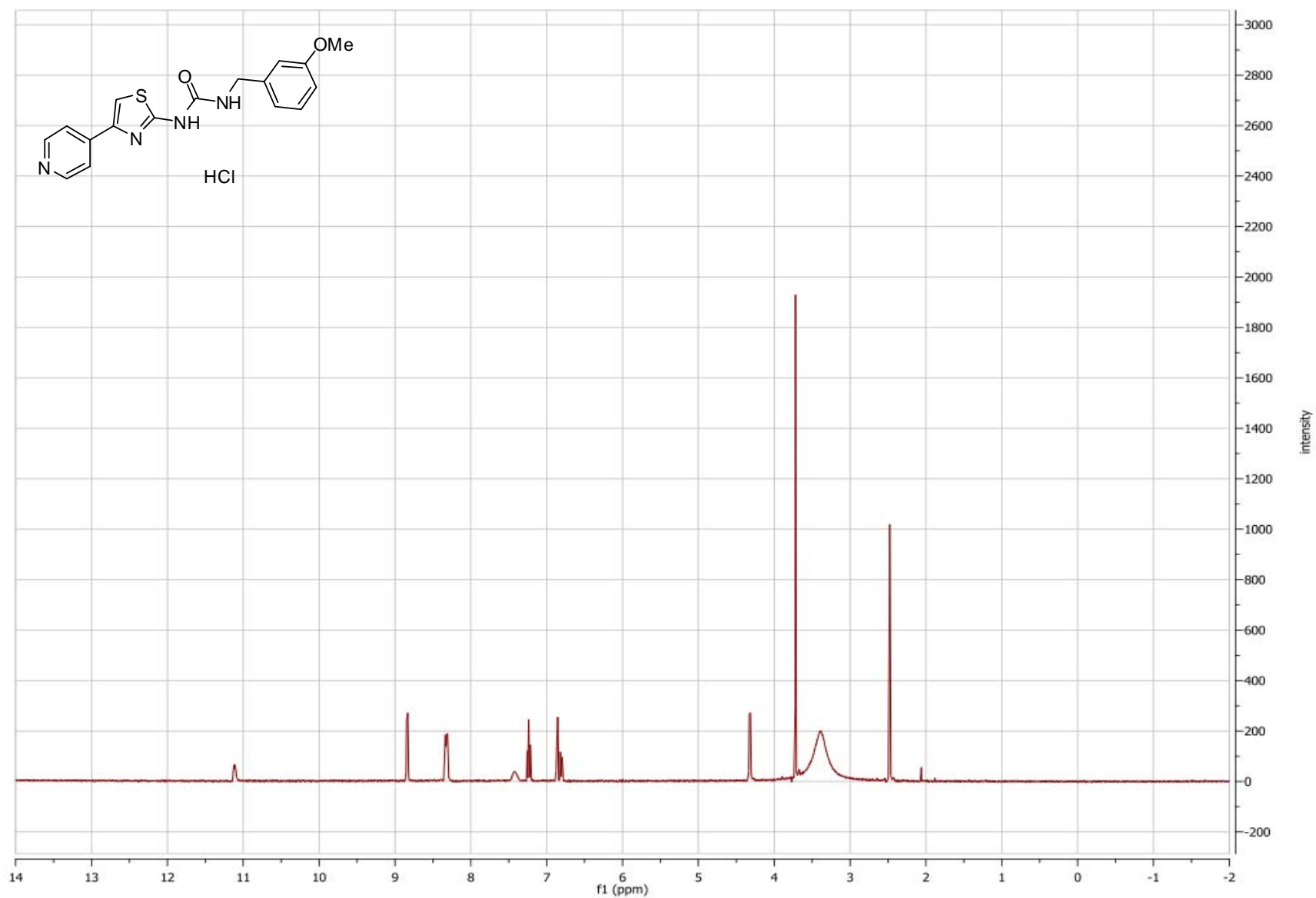
^1H NMR (DMSO- d_6) spectrum of **5d-Mes**



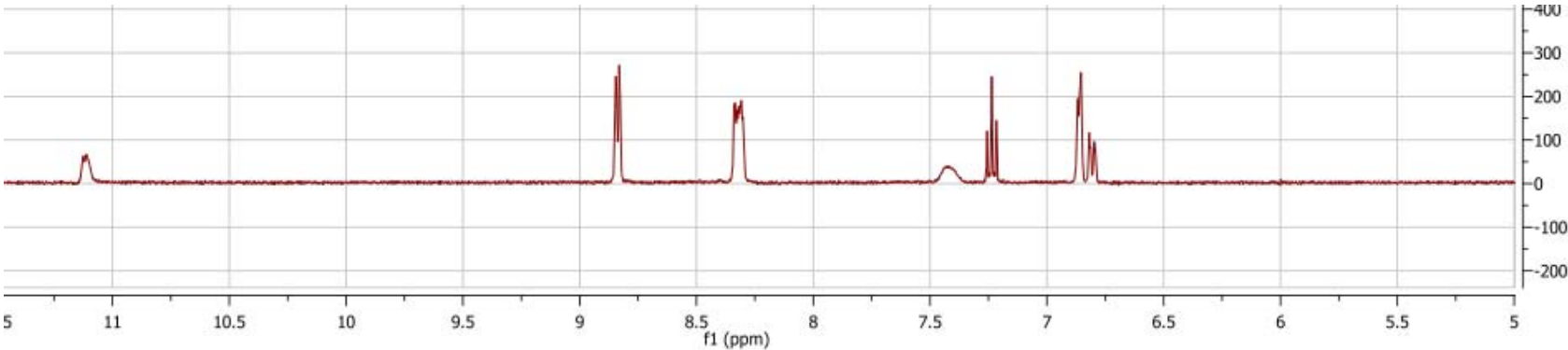
Expansion of the aromatic region of **5d-Mes**



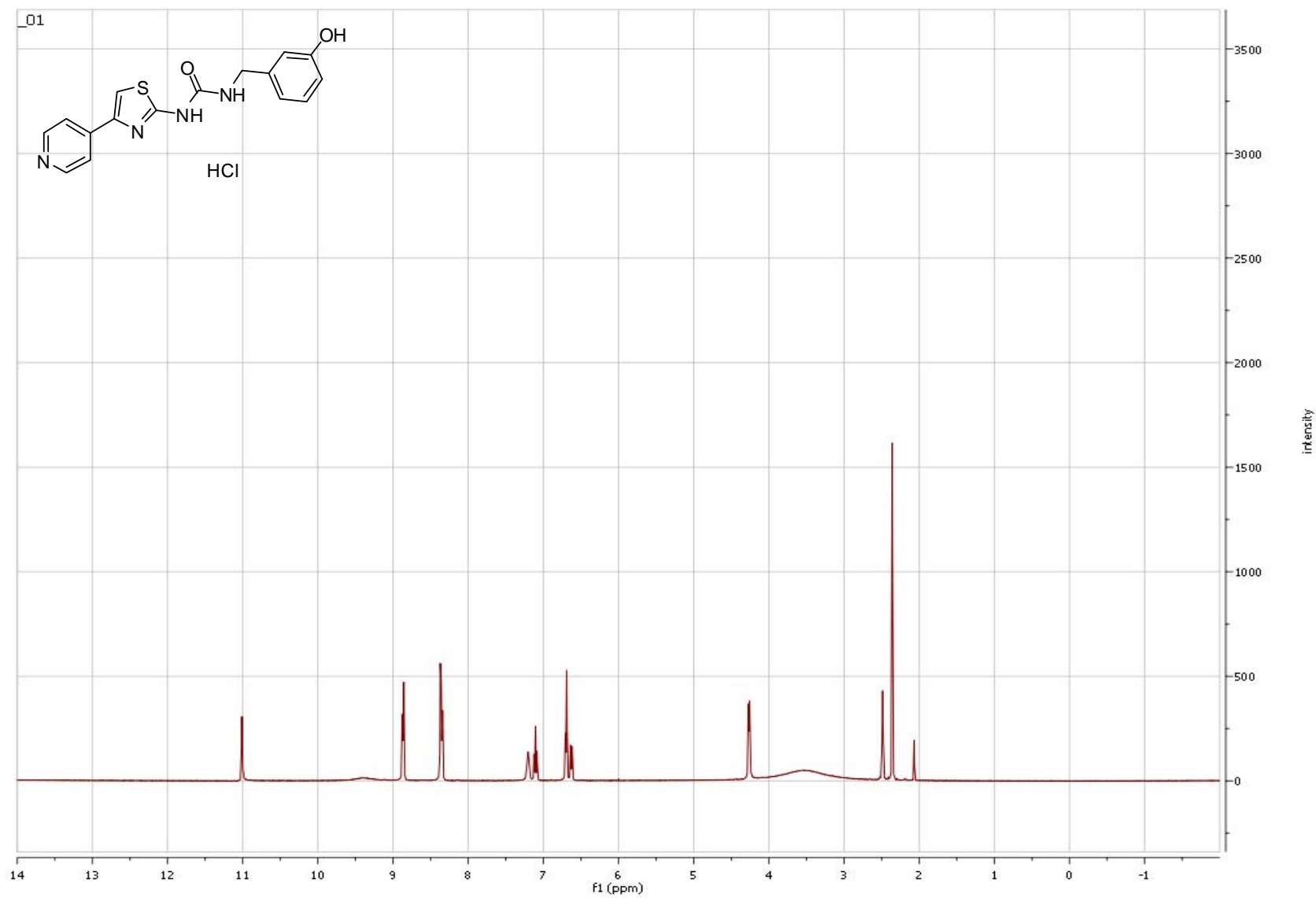
^1H NMR (DMSO- d_6) spectrum of **5b-HCl**



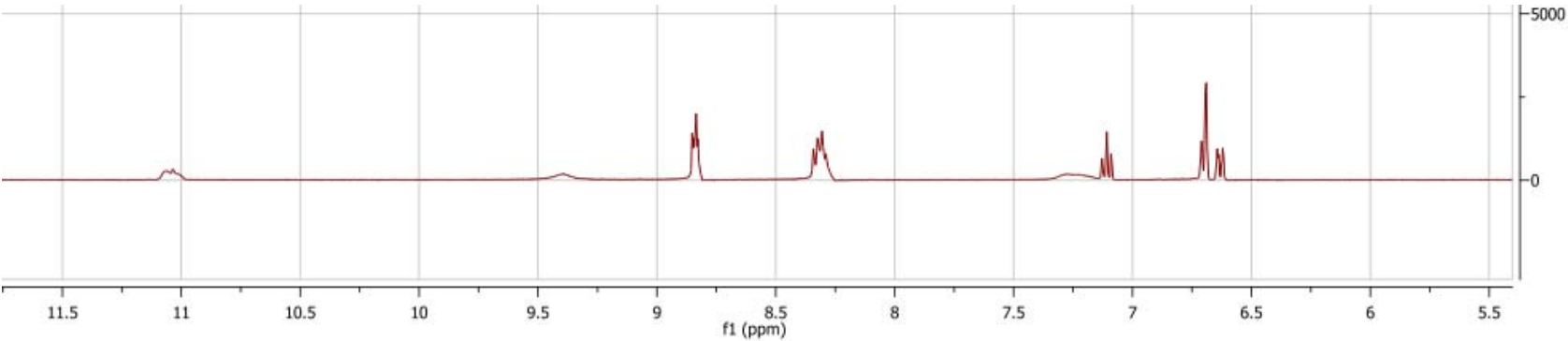
Expansion of the aromatic region of **5b-HCl**



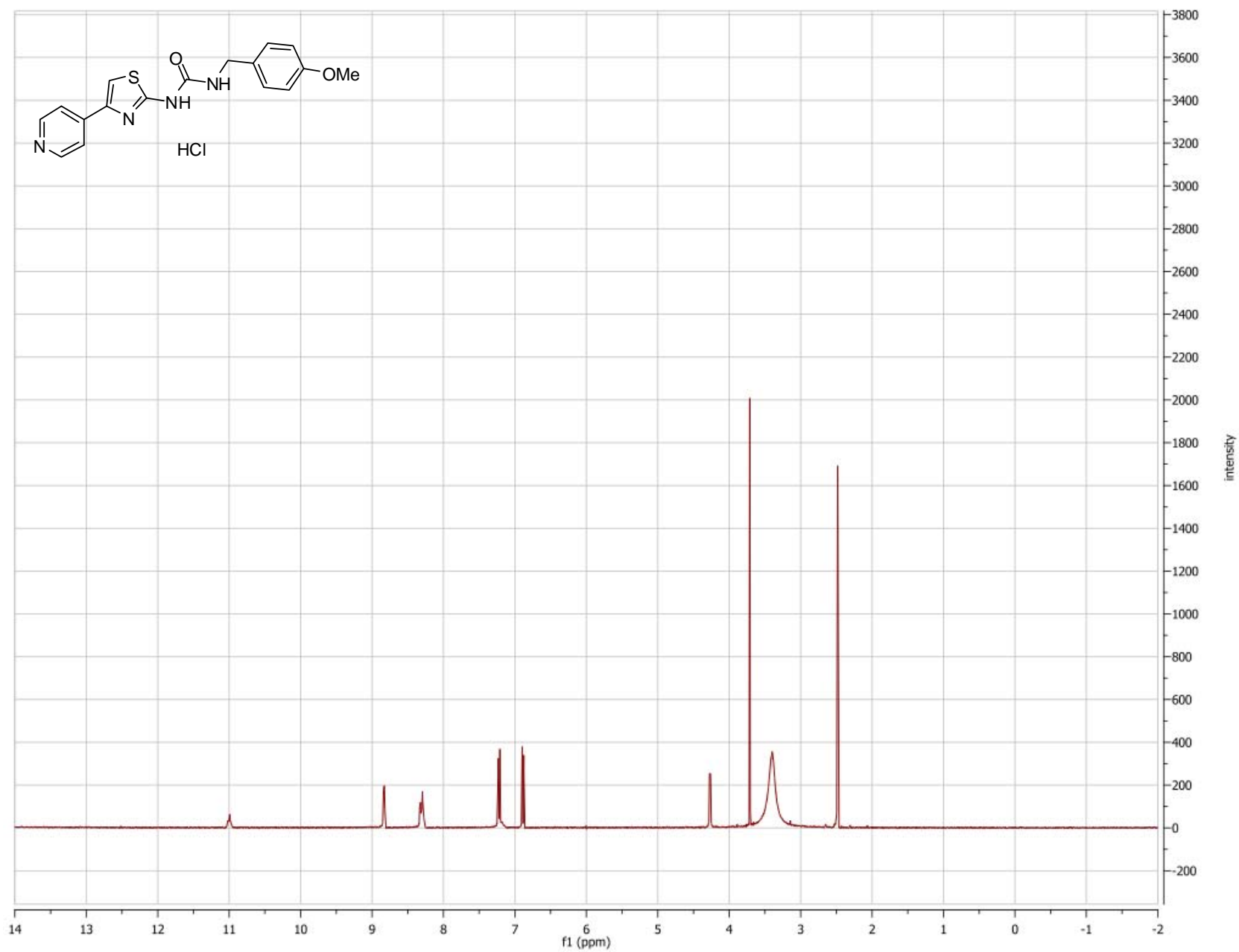
^1H NMR (DMSO- d_6) spectrum of **5g-HCl**



Expansion of the aromatic region of **5g-HCl**



^1H NMR (DMSO- d_6) spectrum of **5d-HCl**



Expansion of the aromatic region of **5d-HCl**

