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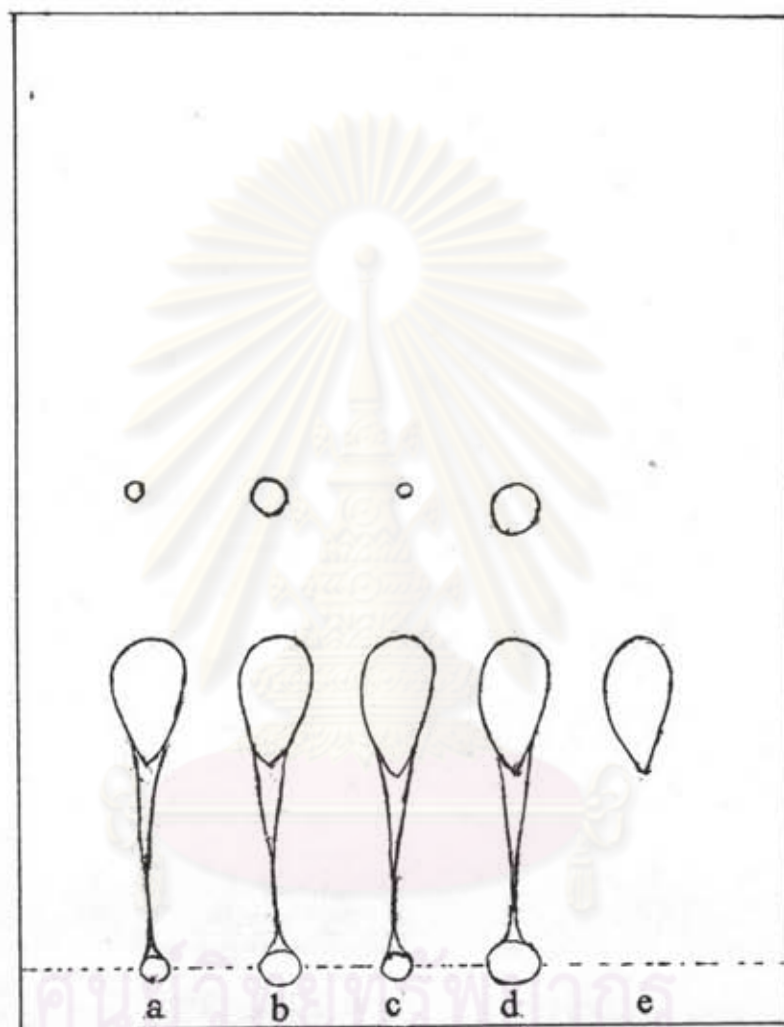
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APPENDICES

ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย



Silica gel GF 254 / solvent system ,chloroform : methanol (95 : 5)

○ = fluorescent spot under UV light (254 nm) and
positive with iodine vapour

Figure 3: TLC chromatogram of ketoconazole in various solvents on photolysis at 15 hrs.

- | | |
|---------------------------|------------------|
| a) in ethylacetate | b) in chloroform |
| c) in acetone | d) in methanol |
| e) in chloroform at 0 hr. | |

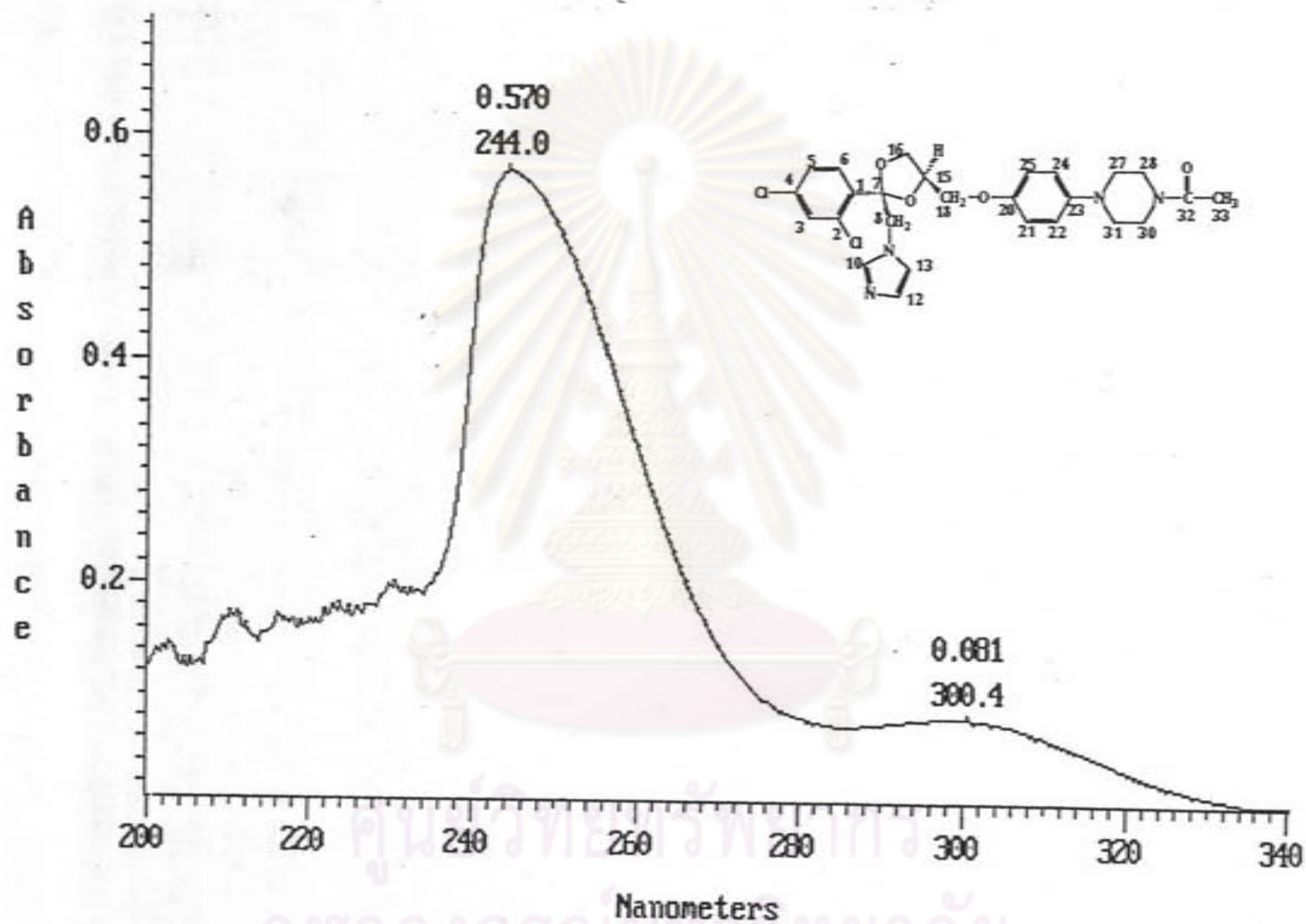


Figure 4 :The UV spectrum of ketoconazole (in CHCl_3)

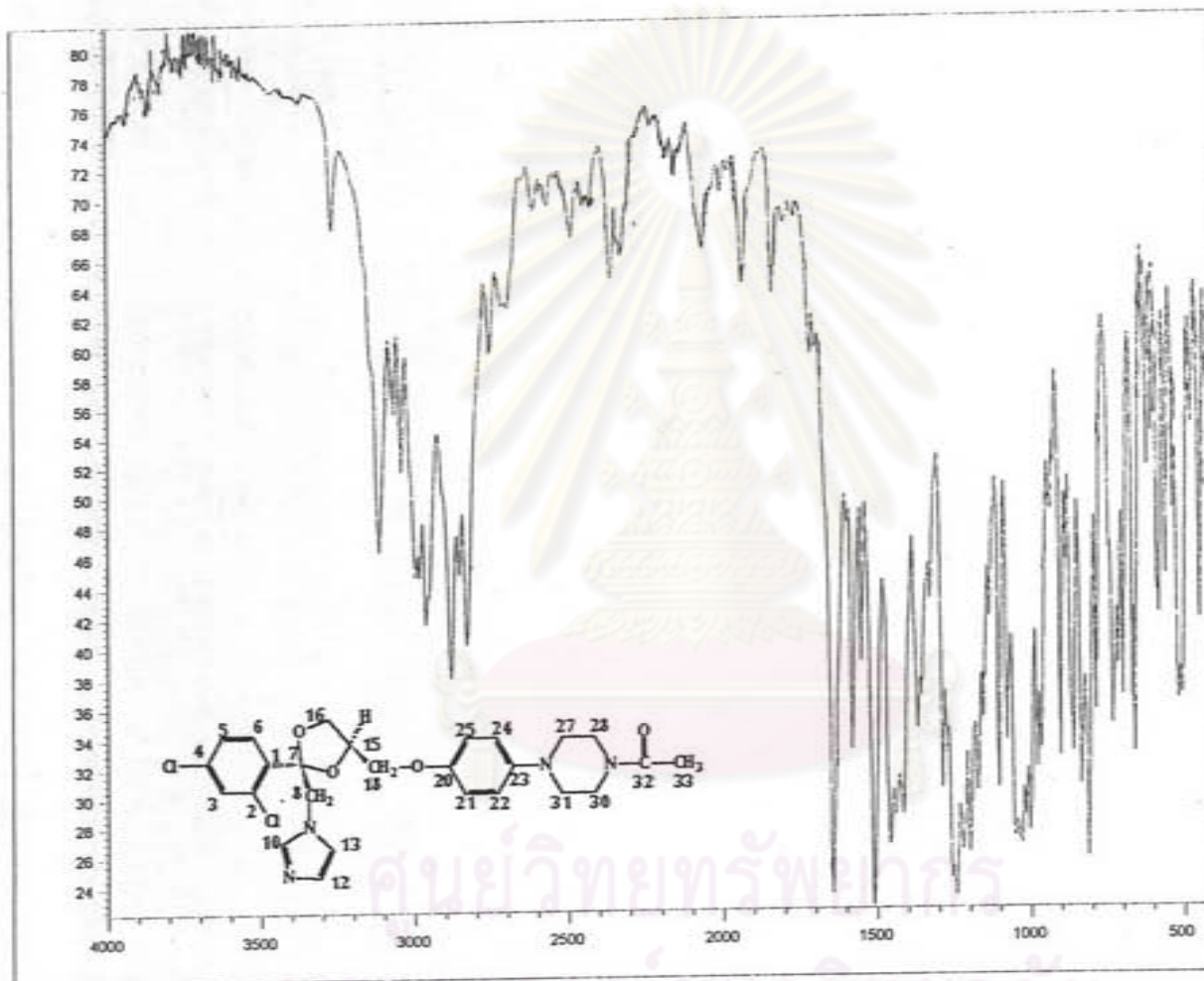


Figure 5 : The IR spectrum of ketoconazole (KBr disc)

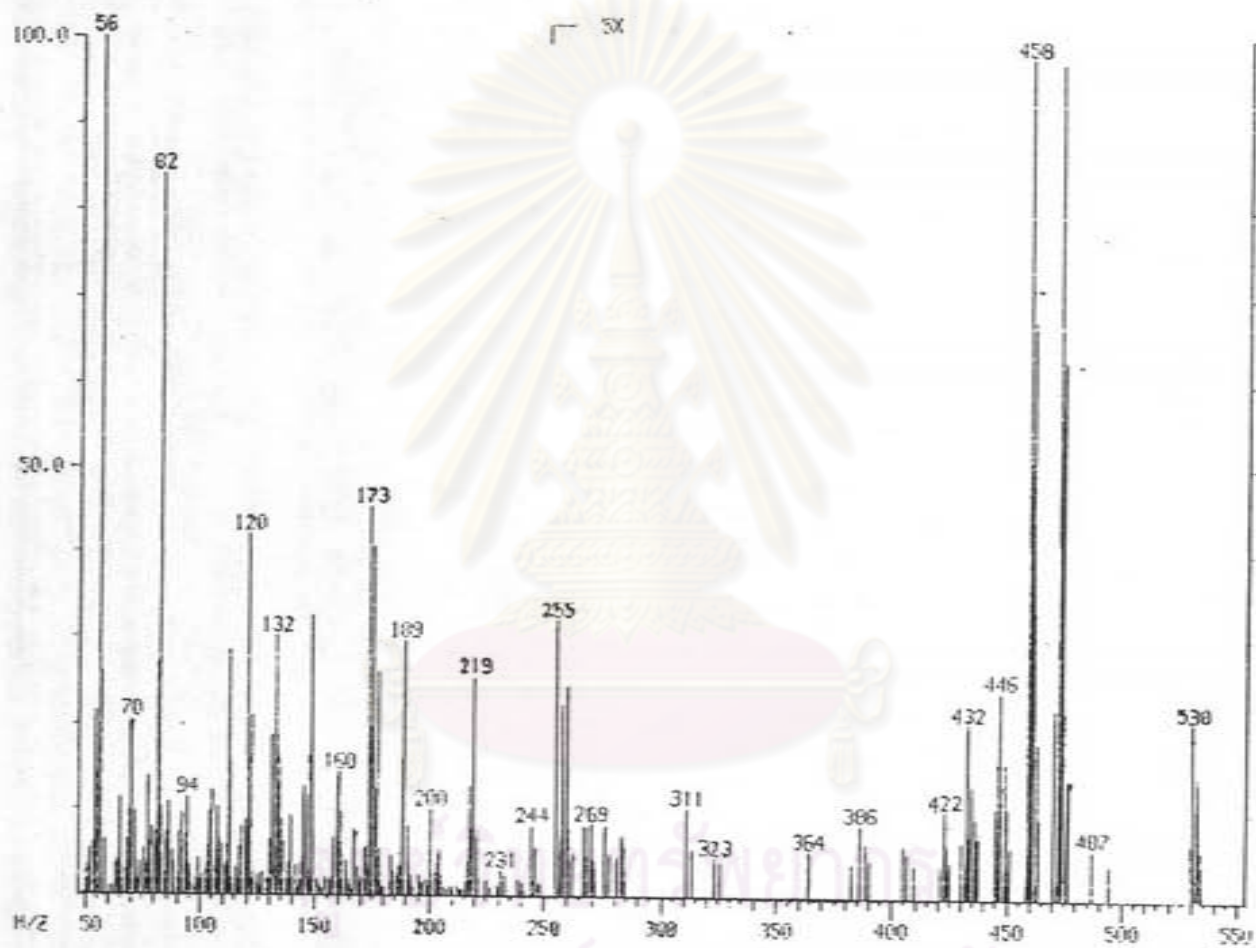


Figure 6 : the EIMS spectrum of Ketoconazole

¹H KETOCONAZOLE

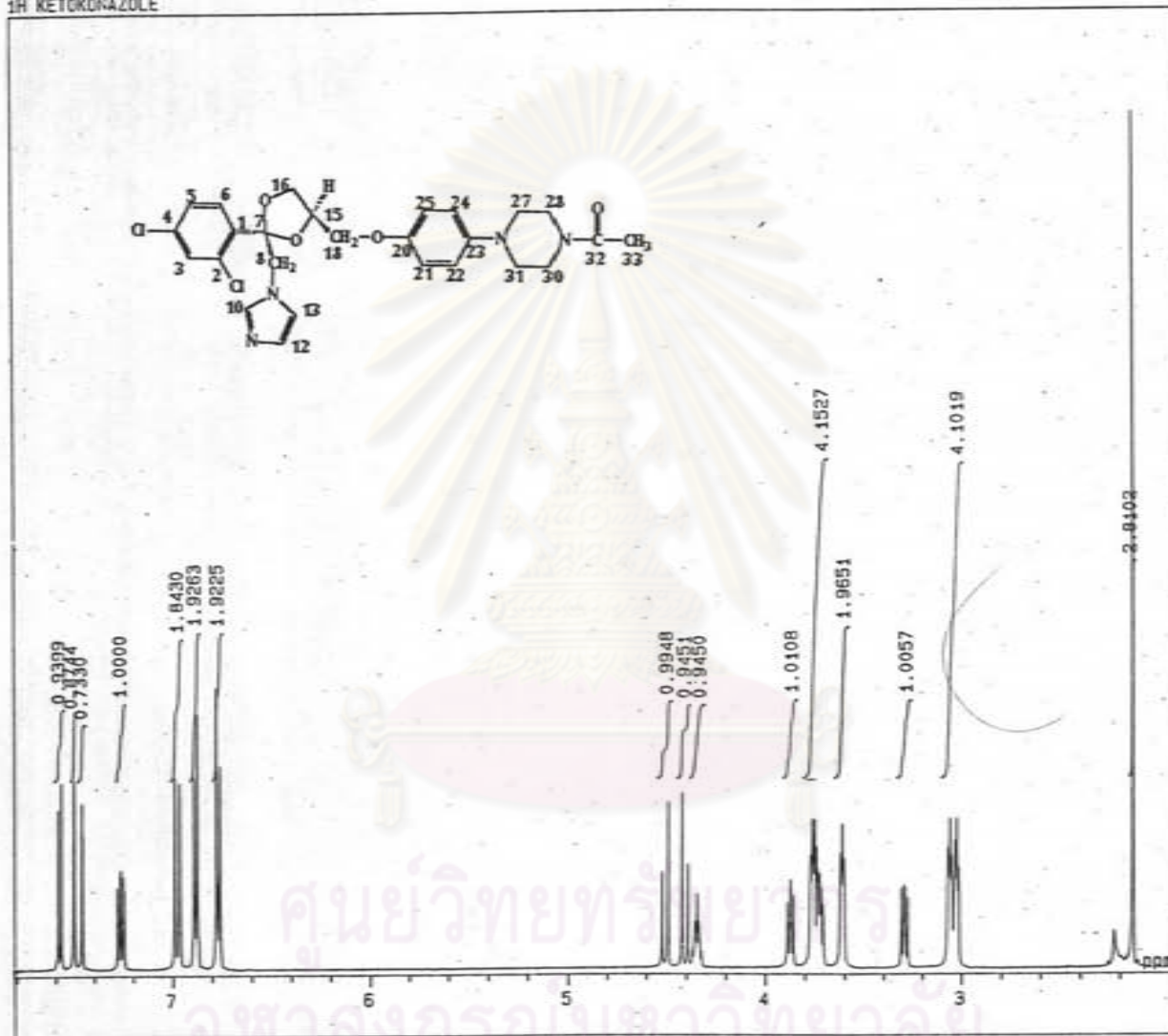


Figure 7 : The 500 MHz ¹H - NMR spectrum of ketoconazole in chloroform - *d* (Full spectrum)

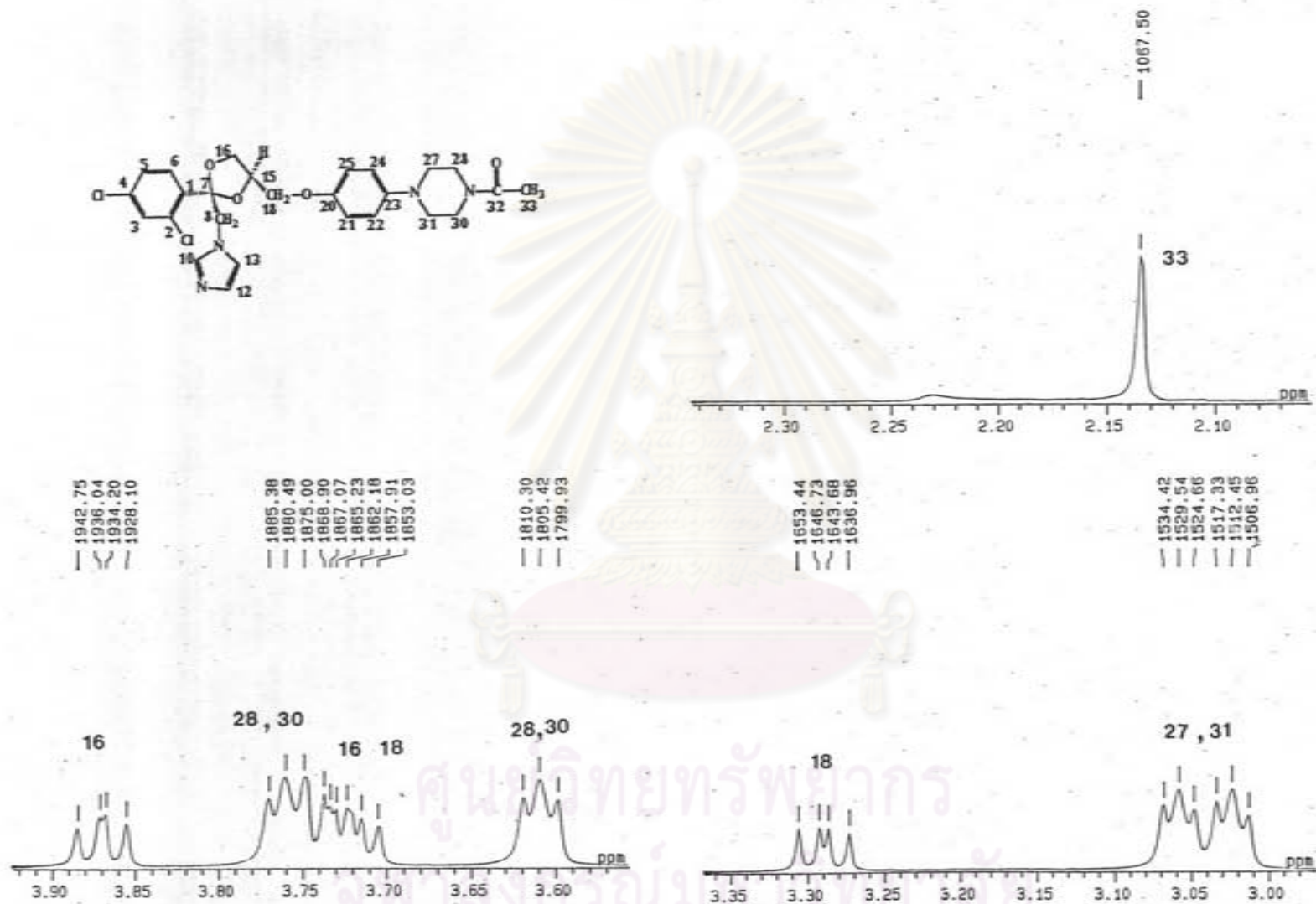


Figure 8 : The 500 MHz ^1H - NMR spectrum of ketoconazole in chloroform - *d* (Expansion between 2.1 - 3.9 ppm)

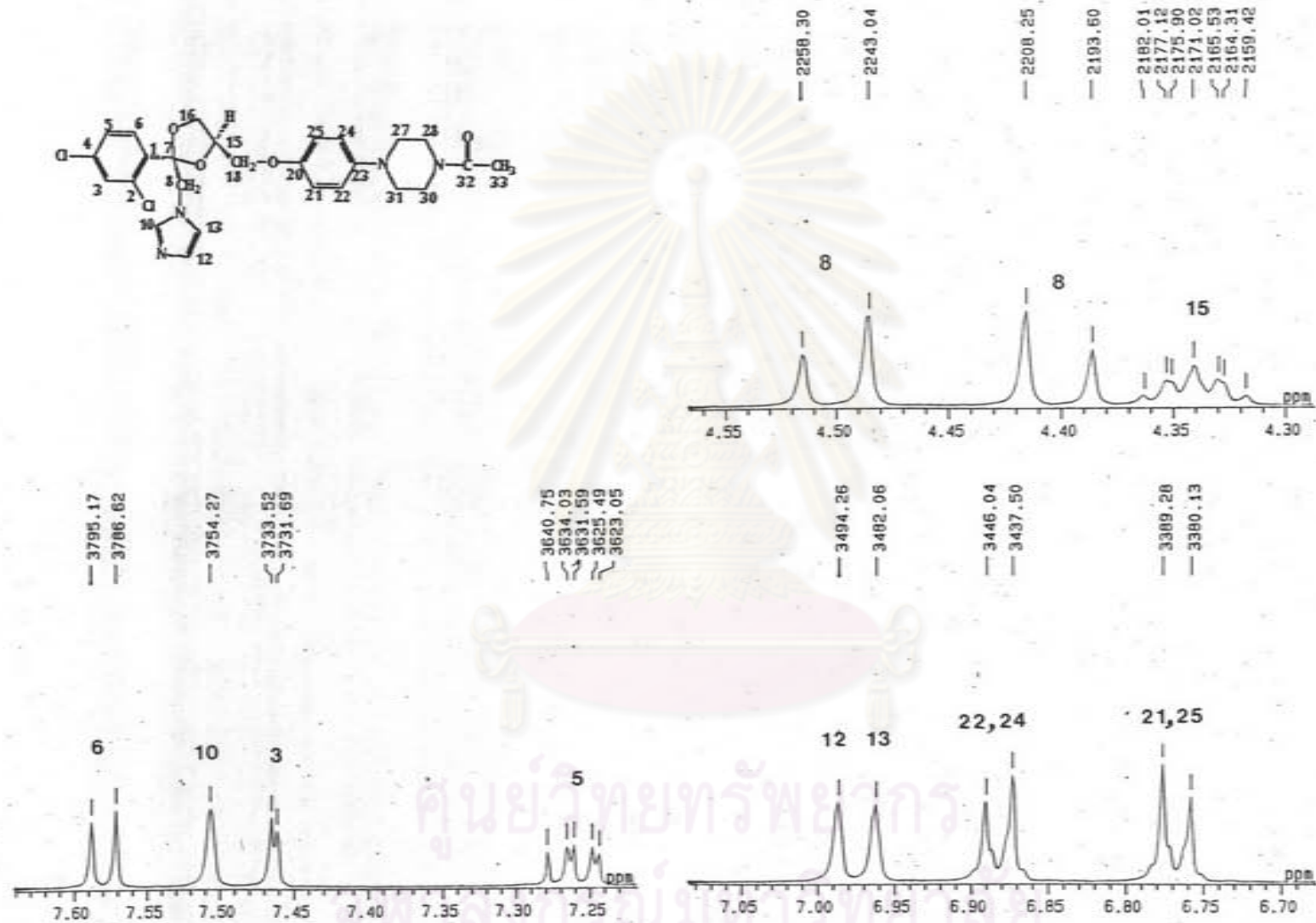


Figure 9 : The 500 MHz ^1H - NMR spectrum of ketoconazole in chloroform - *d* (Expansion between 5.9 - 7.6 ppm)

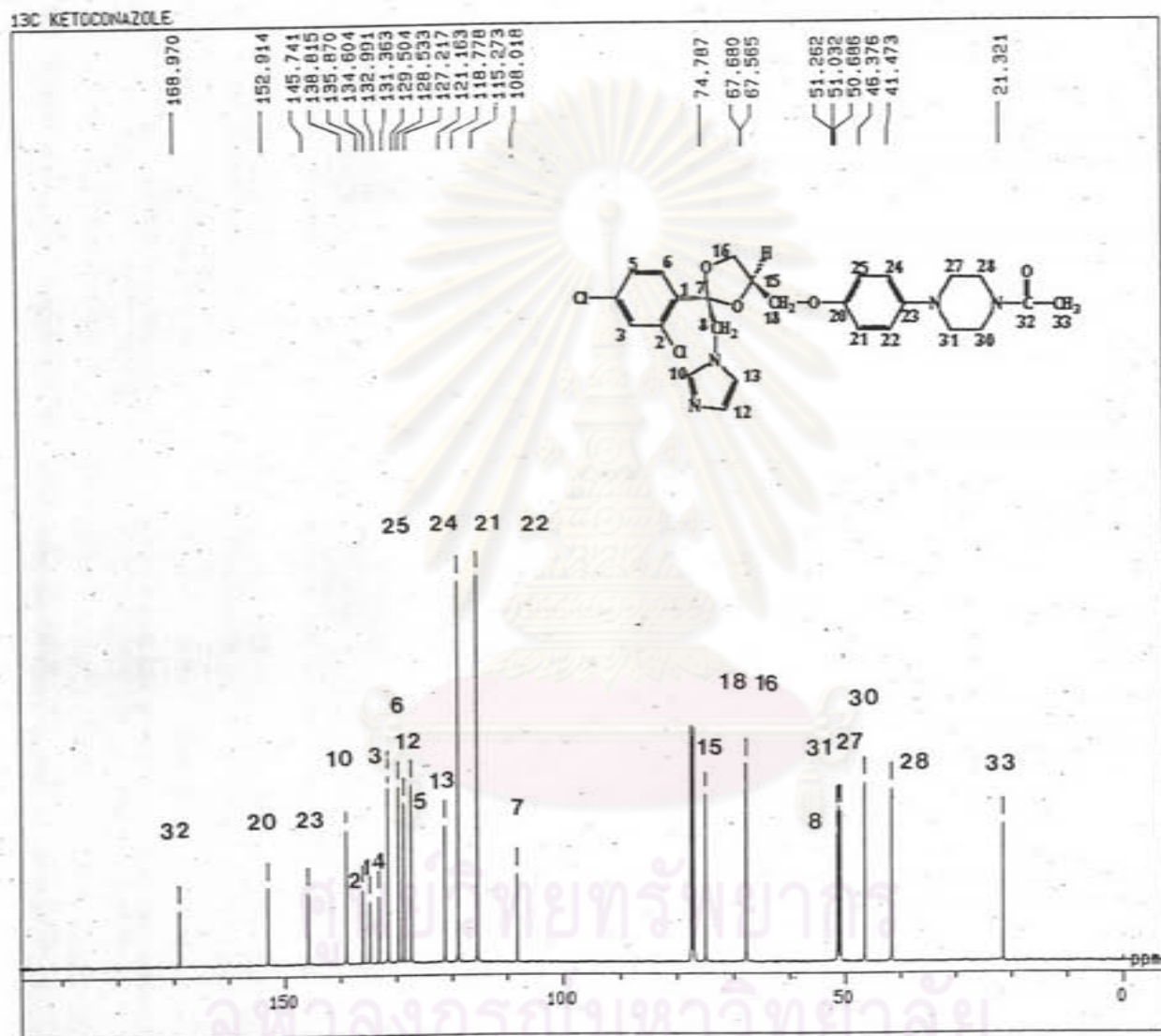


Figure 10 : The 125 MHz ¹³C - NMR spectrum of ketoconazole in chloroform - *d*

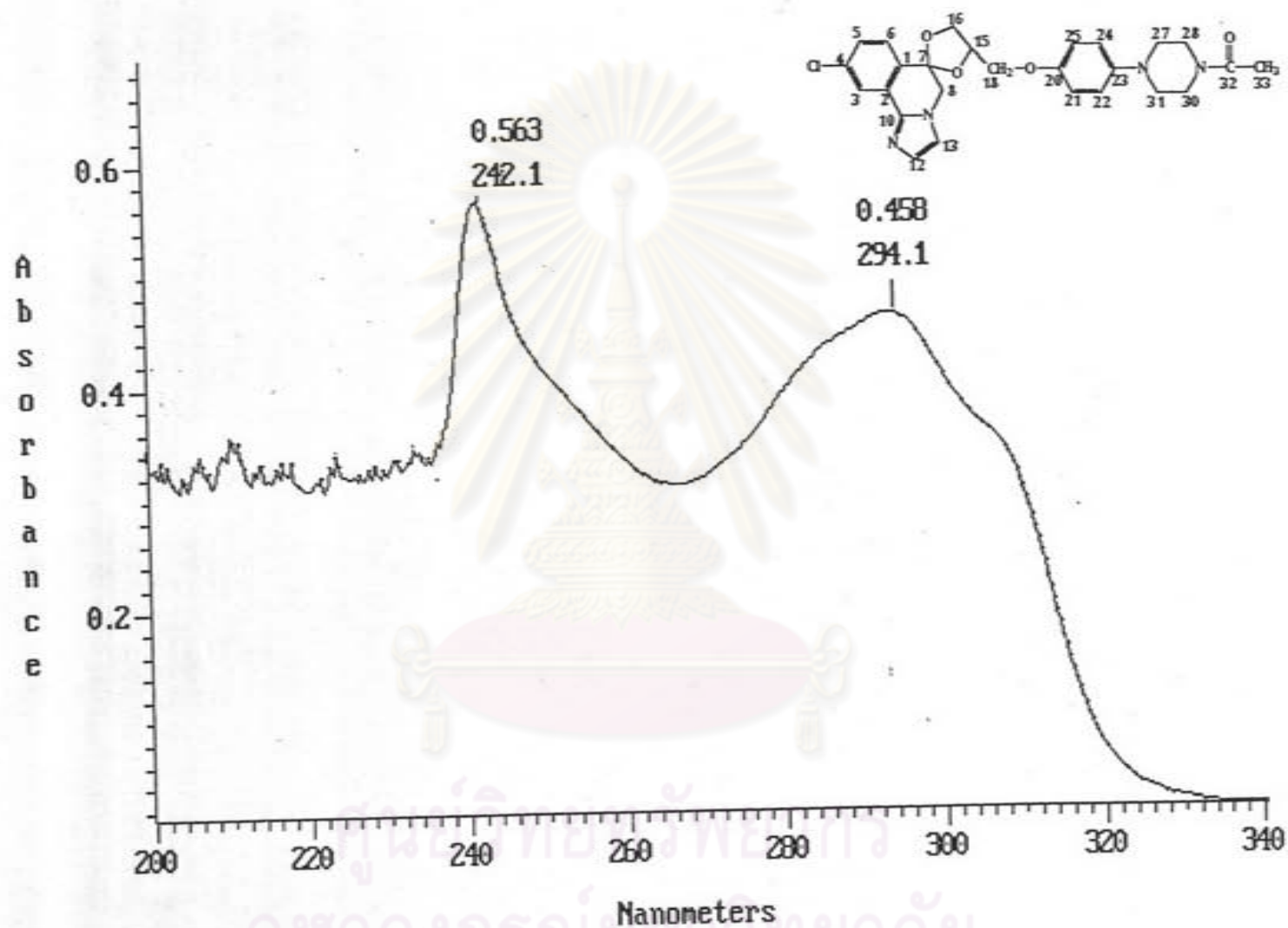


Figure 11 : The UV spectrum of compound A (in CHCl_3)

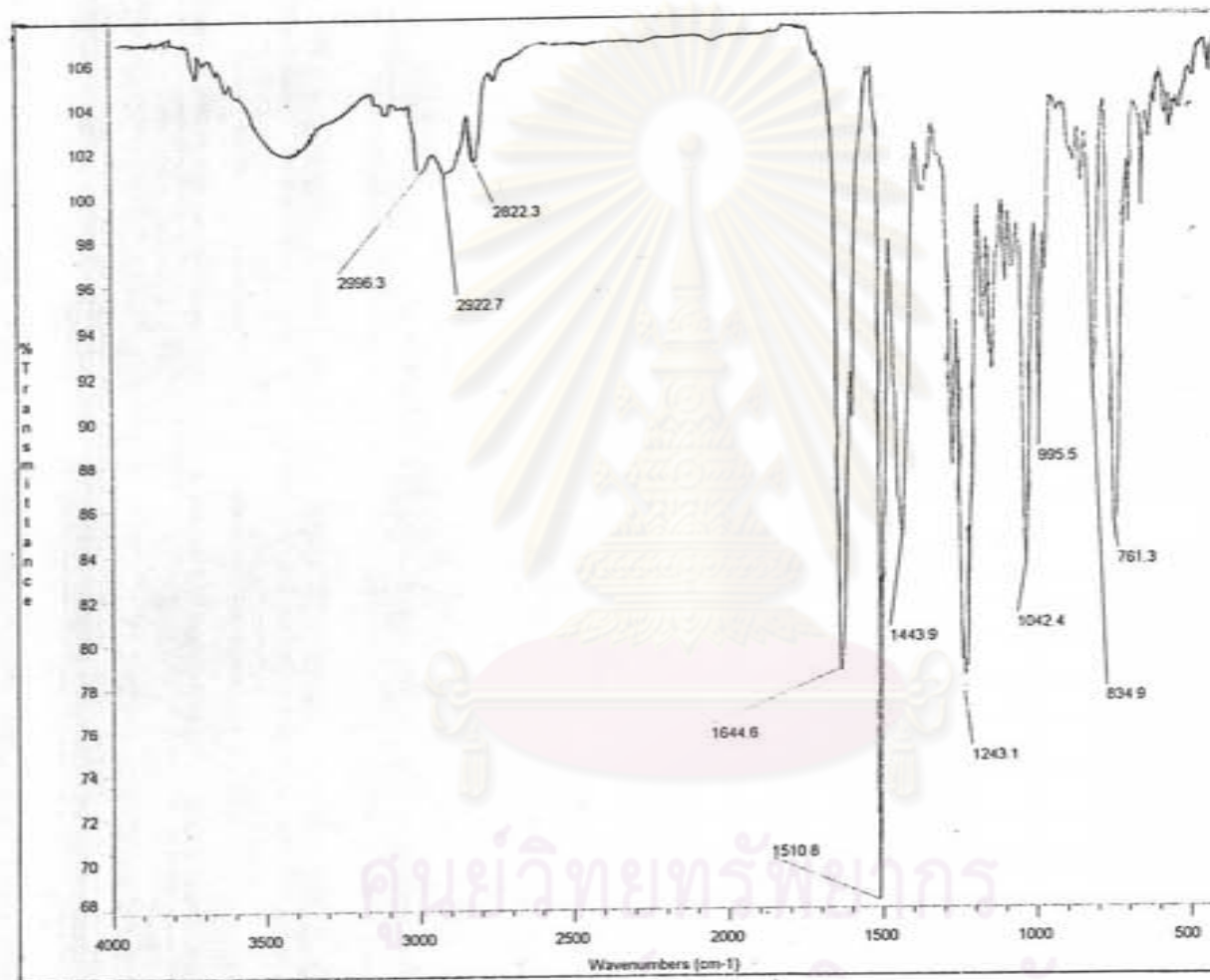


Figure 12 : The IR spectrum of compound A (KBr disc)

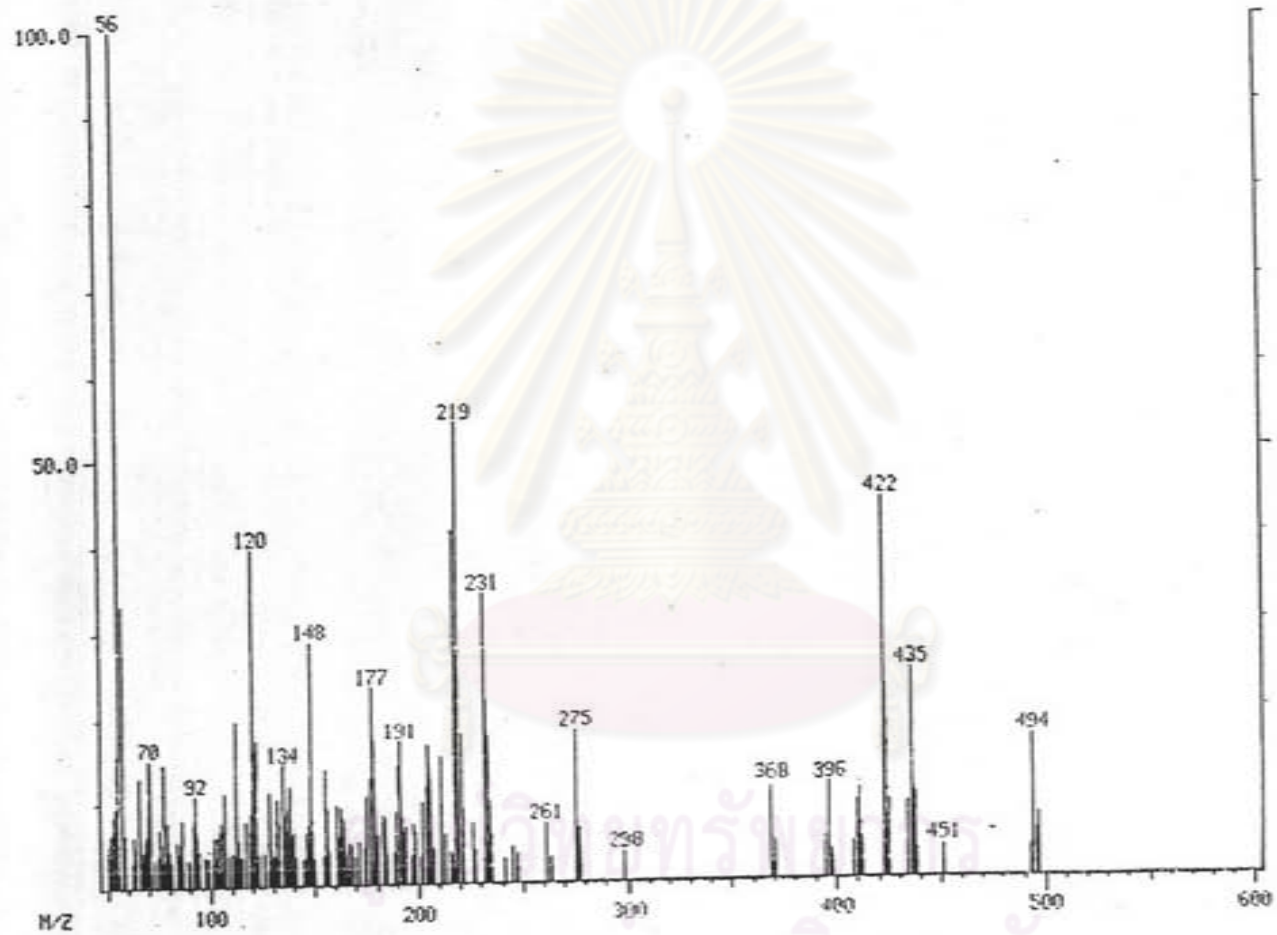


Figure 13 : the EIMS spectrum of compound A.

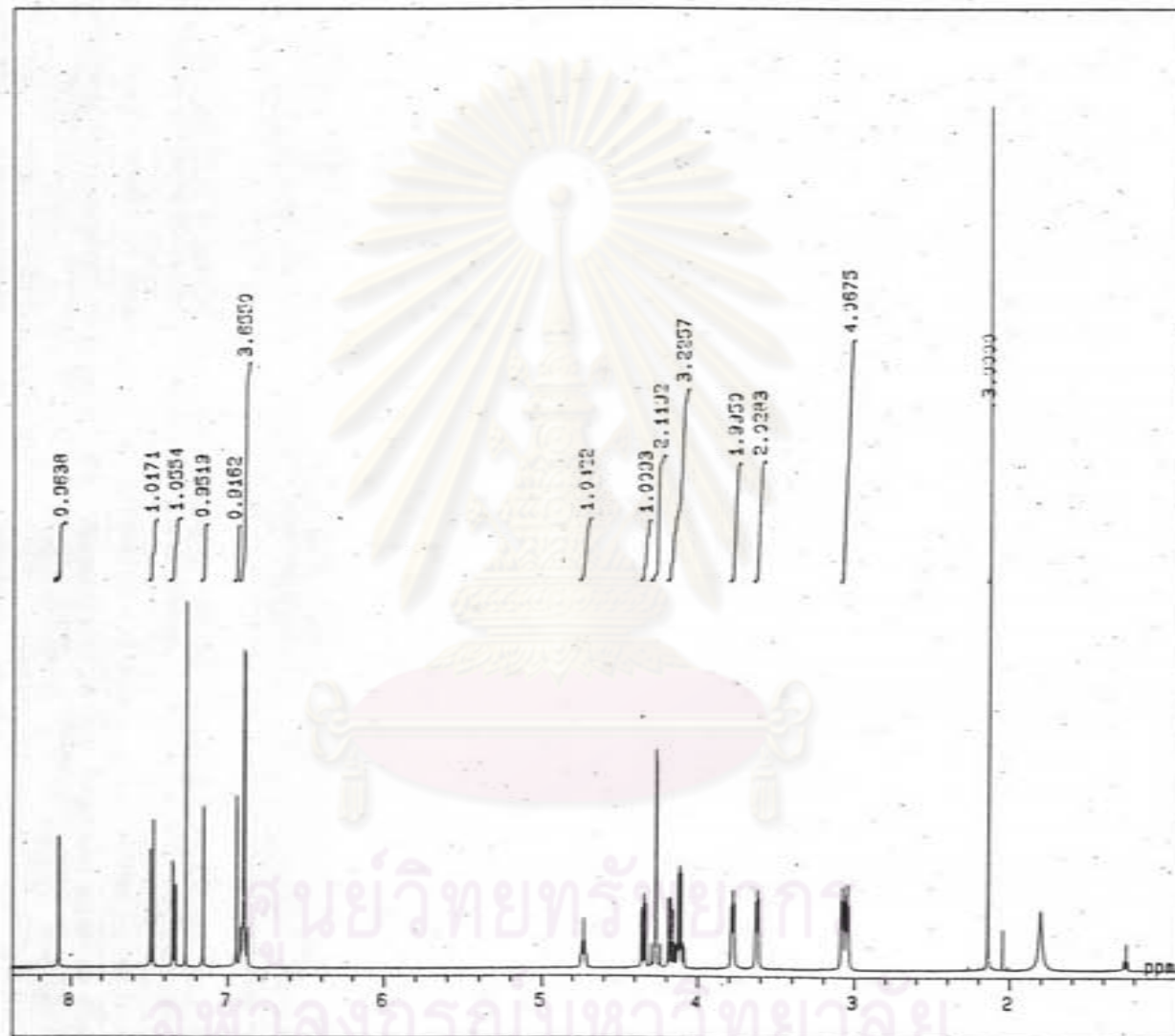


Figure 14 : The 500 MHz ^1H - NMR spectrum of compound A in chloroform - *d* (Full spectrum)

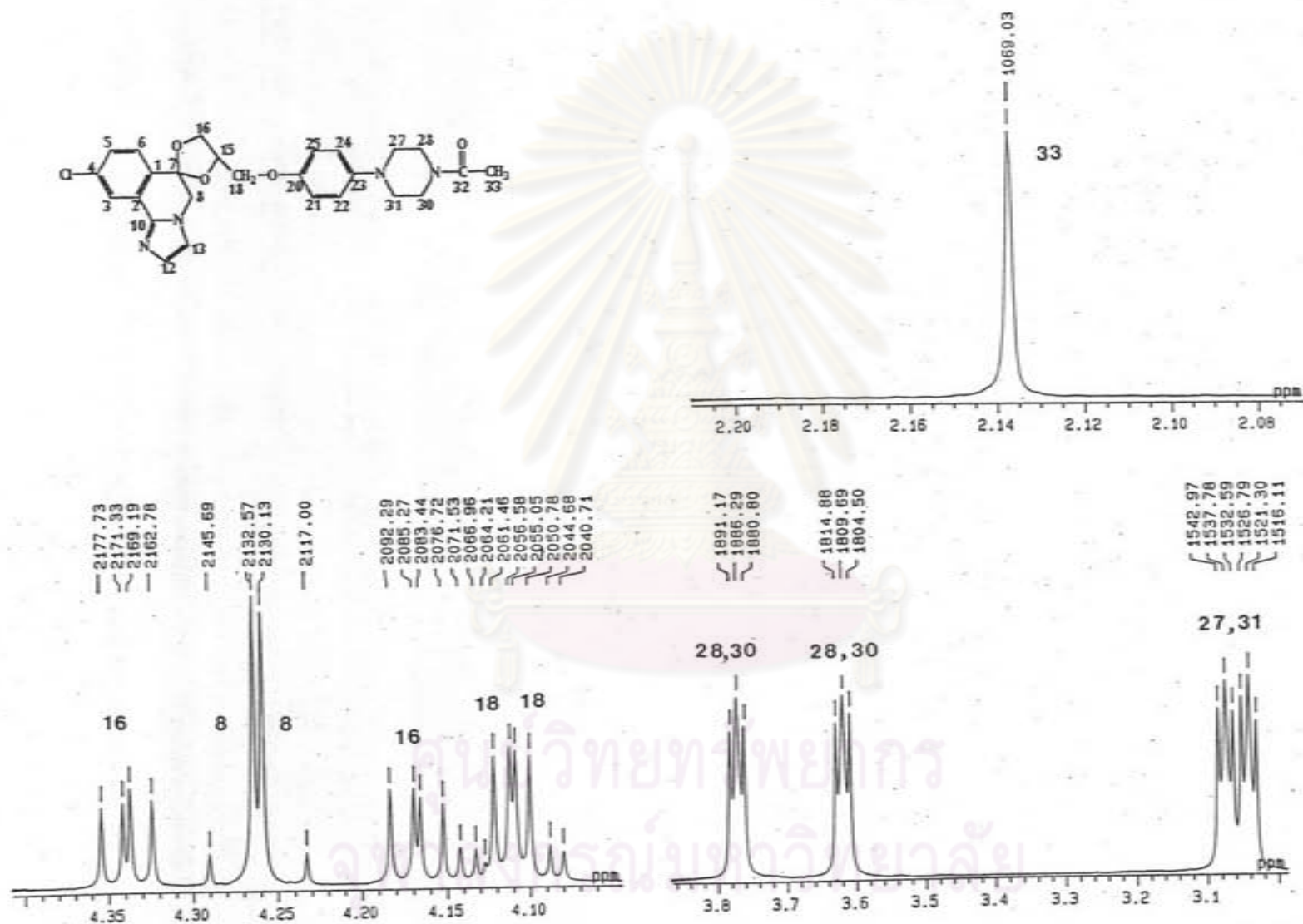
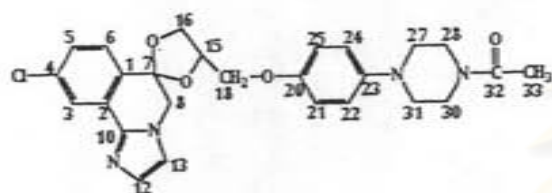


Figure 15 : The 500 MHz ^1H - NMR spectrum of compound A in chloroform - *d* (Expansion between 2.1 - 4.4 ppm)

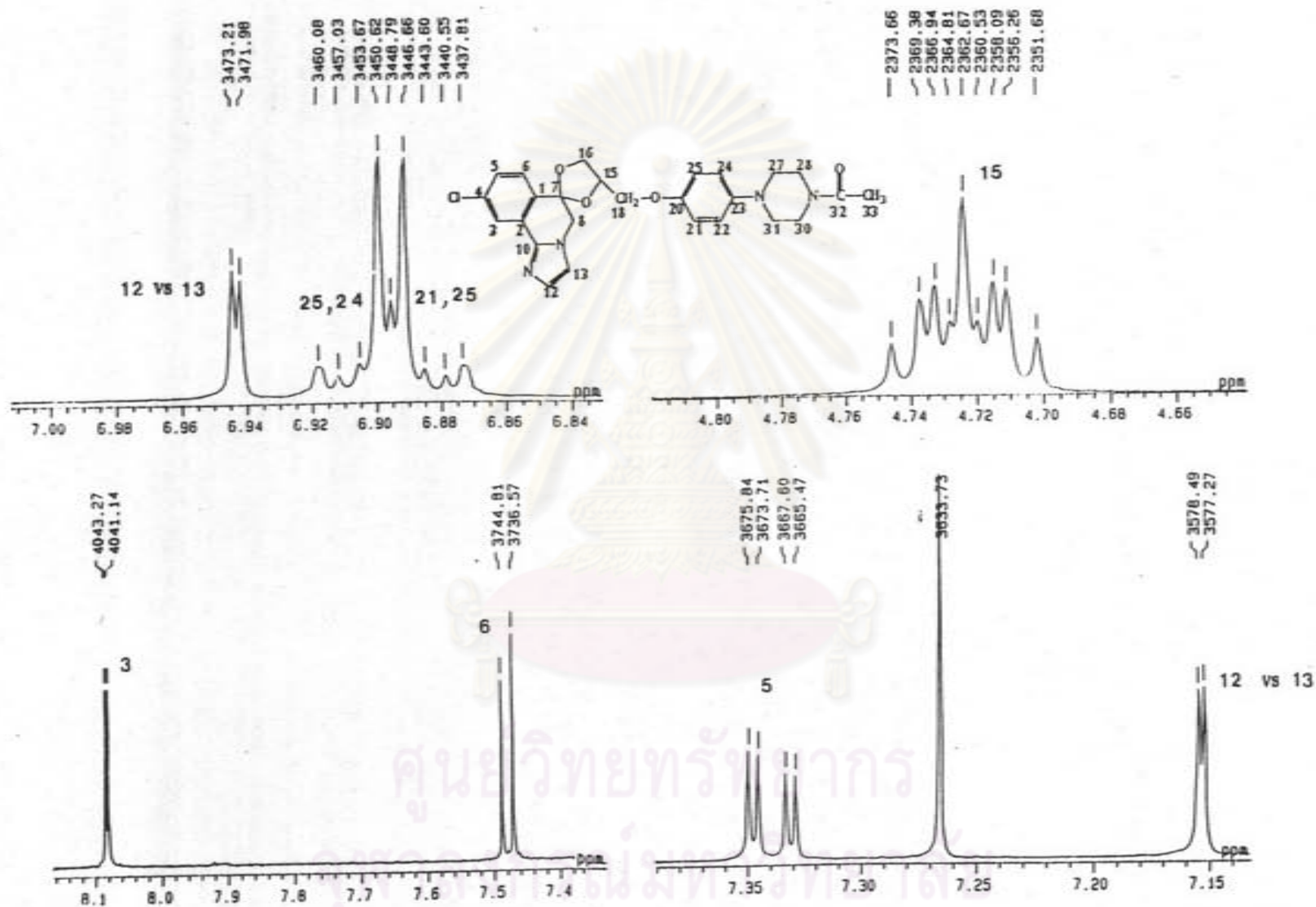


Figure 16 : The 500 MHz ^1H - NMR spectrum of compound A in chloroform - d (Expansion between 4.7 - 8.1 ppm)

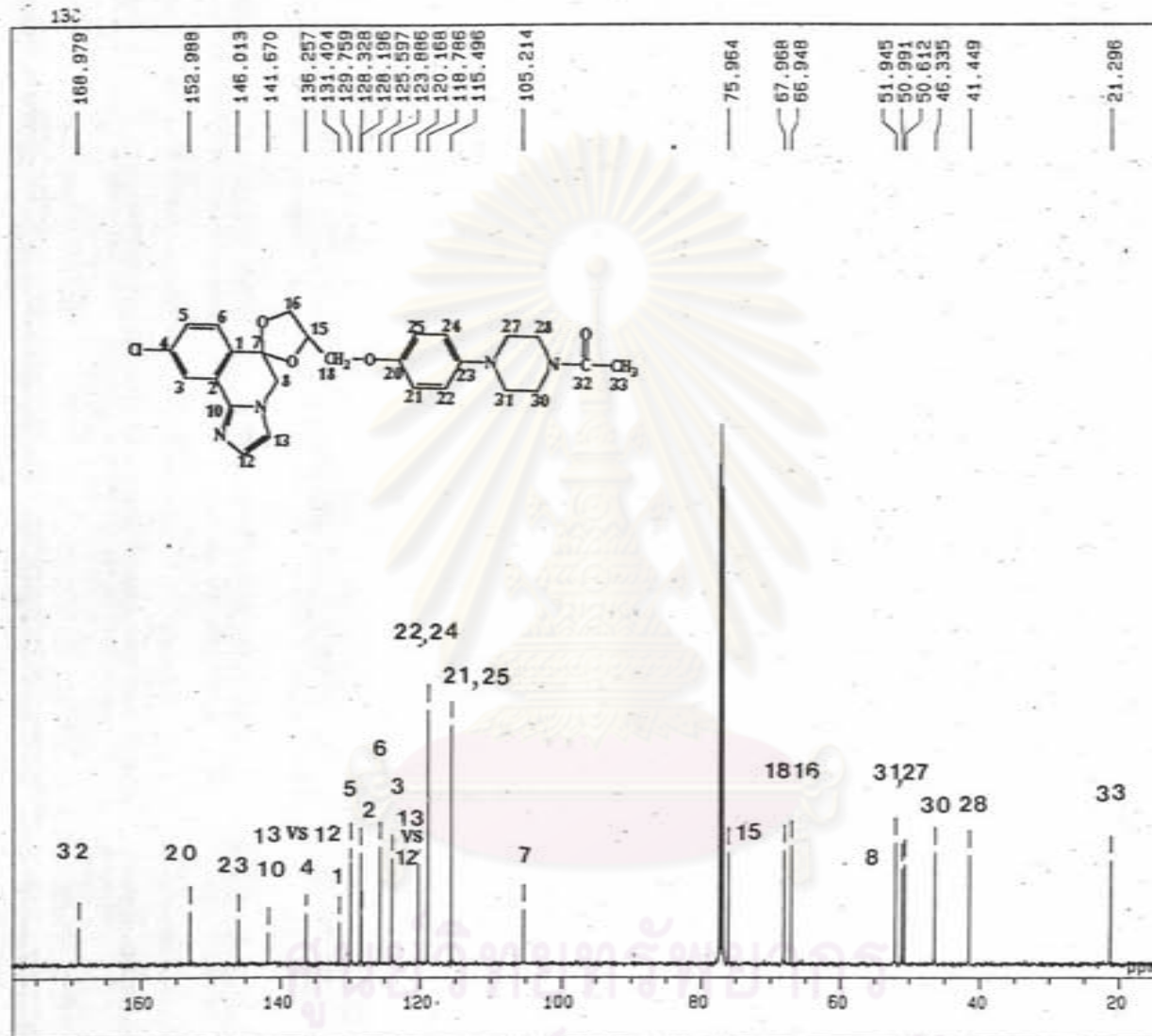


Figure 17 : The 125 MHz ^{13}C - NMR spectrum of compound A in chloroform - *d*

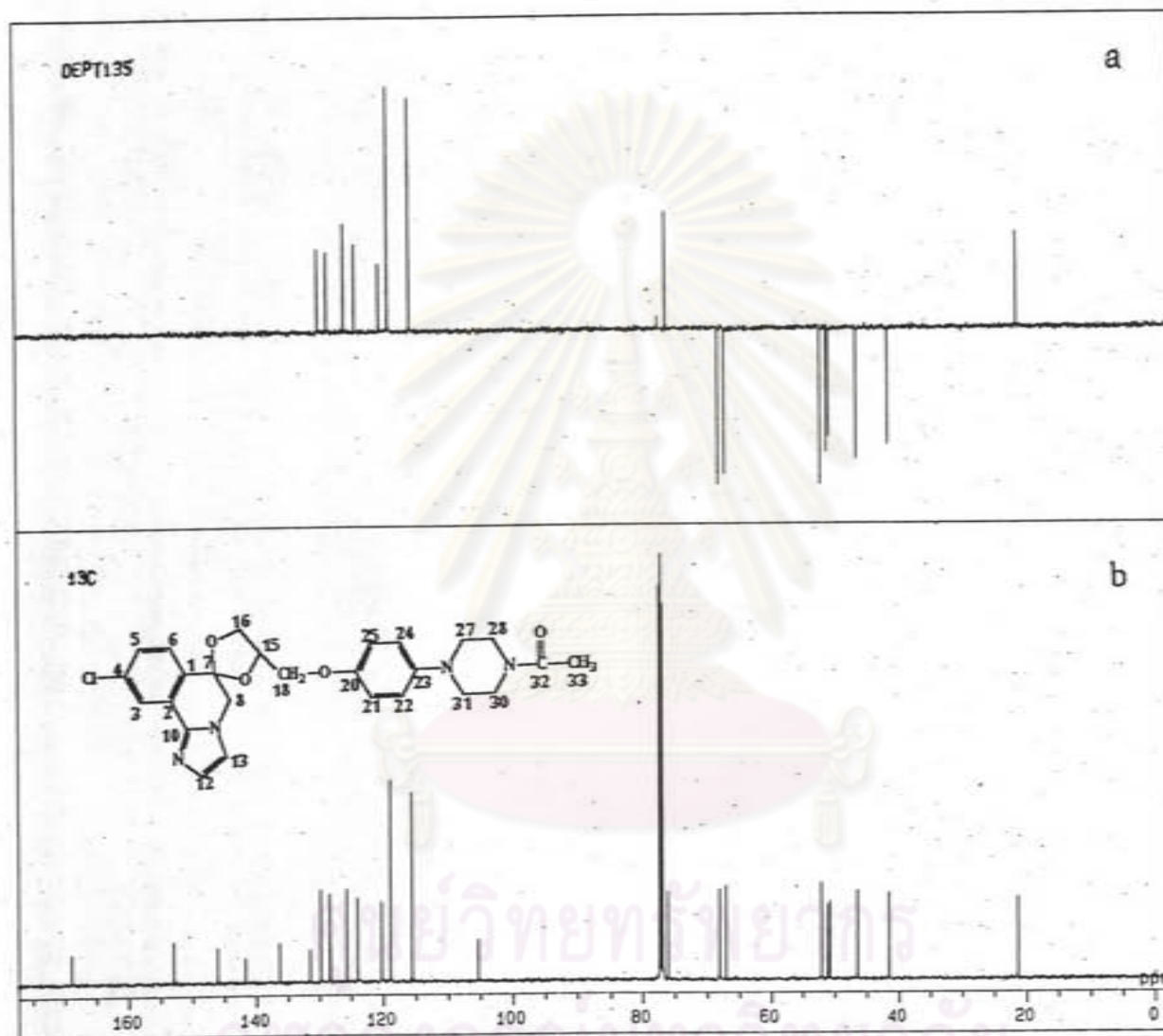


Figure 18 : The ^{13}C -DEPT spectrum of compound A in chloroform - *d*

a) ^{13}C DEPT - 135

b) Normal spectrum

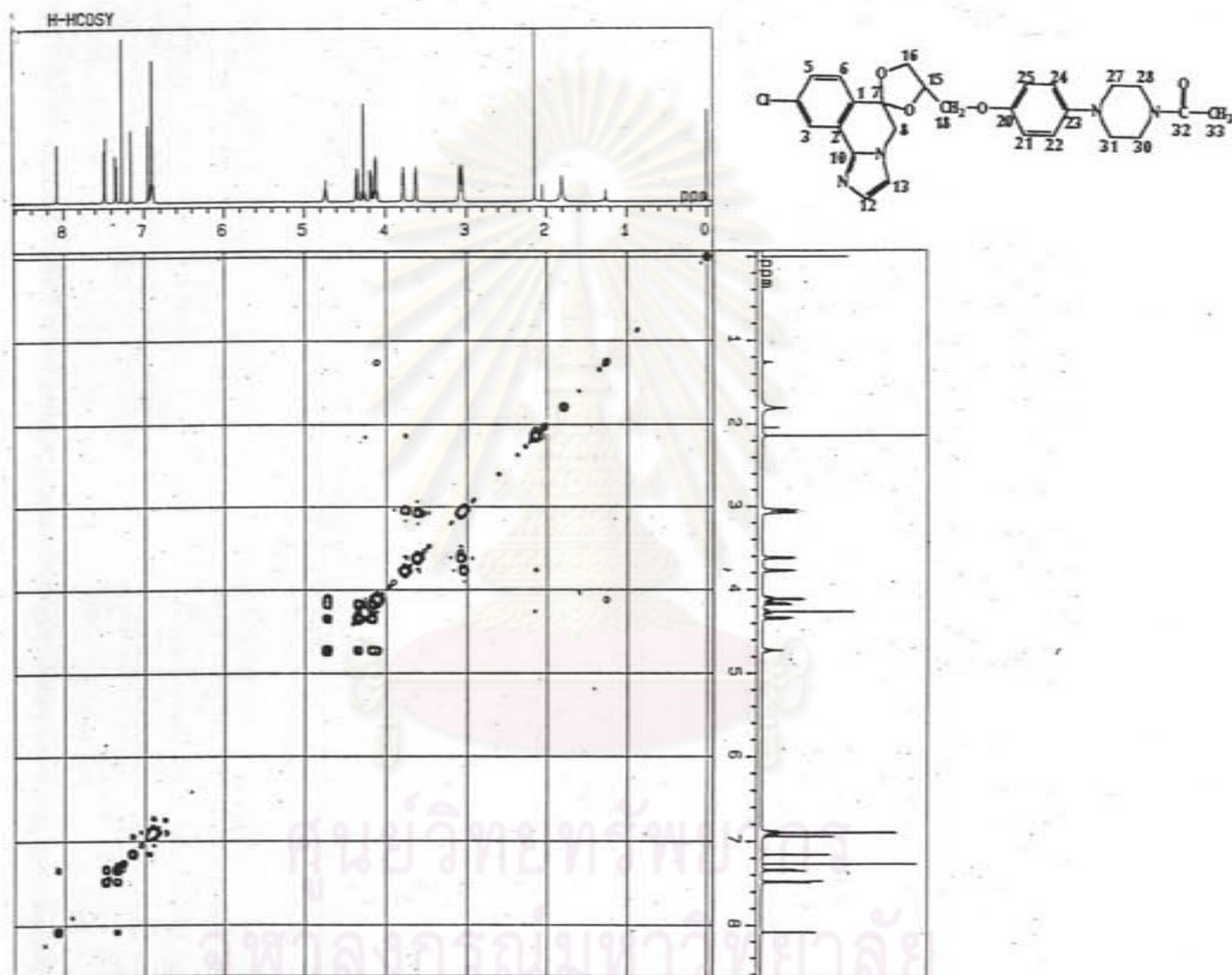


Figure 19 : The 500 MHz ^1H - ^1H COSY spectrum of compound A in chloroform - *d* (Full spectrum)

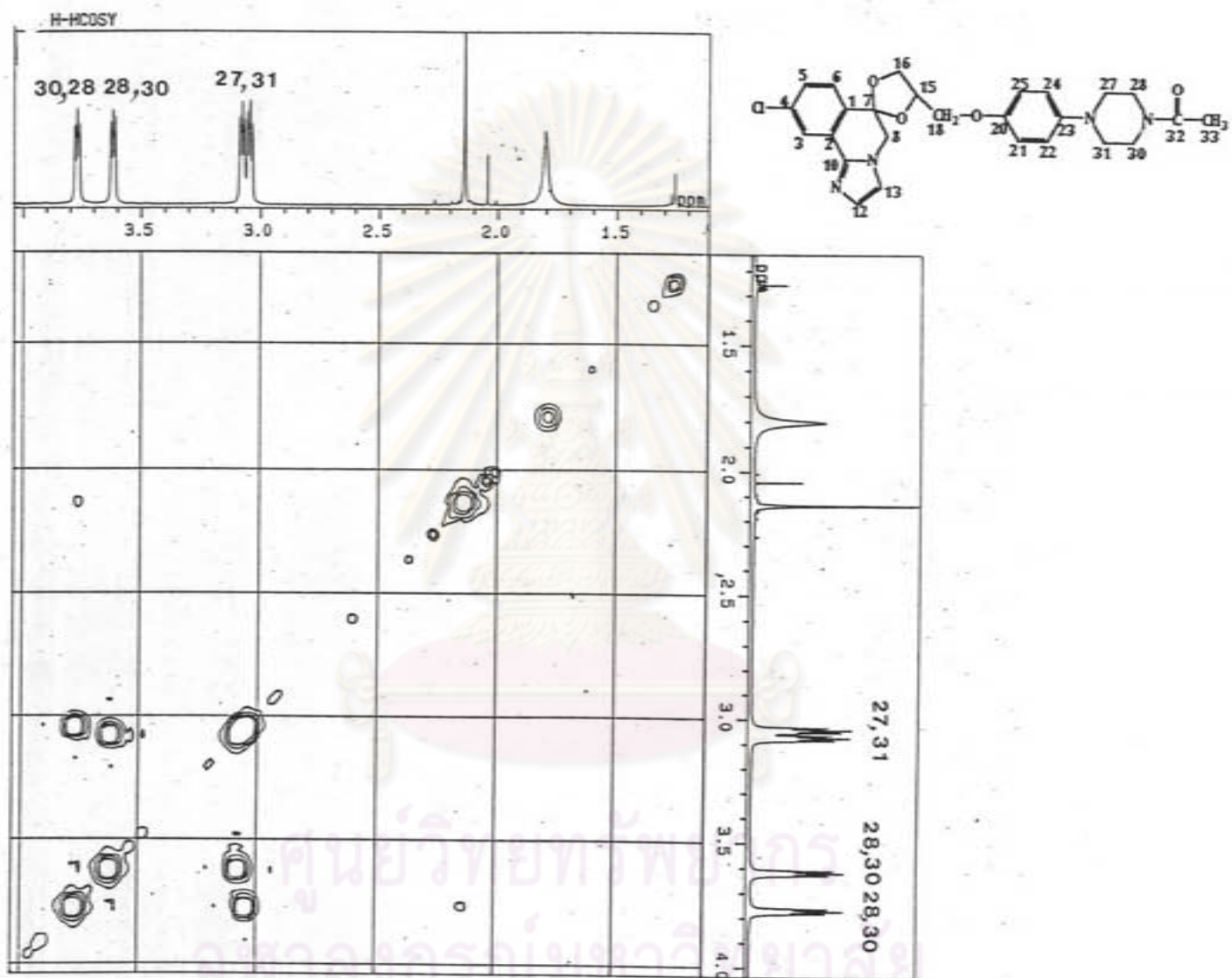


Figure 20 : The 500 MHz $^1\text{H} - ^1\text{H}$ COSY spectrum of compound A in chloroform - *d*
 (Expansion between 1.0 - 4.0 ppm)

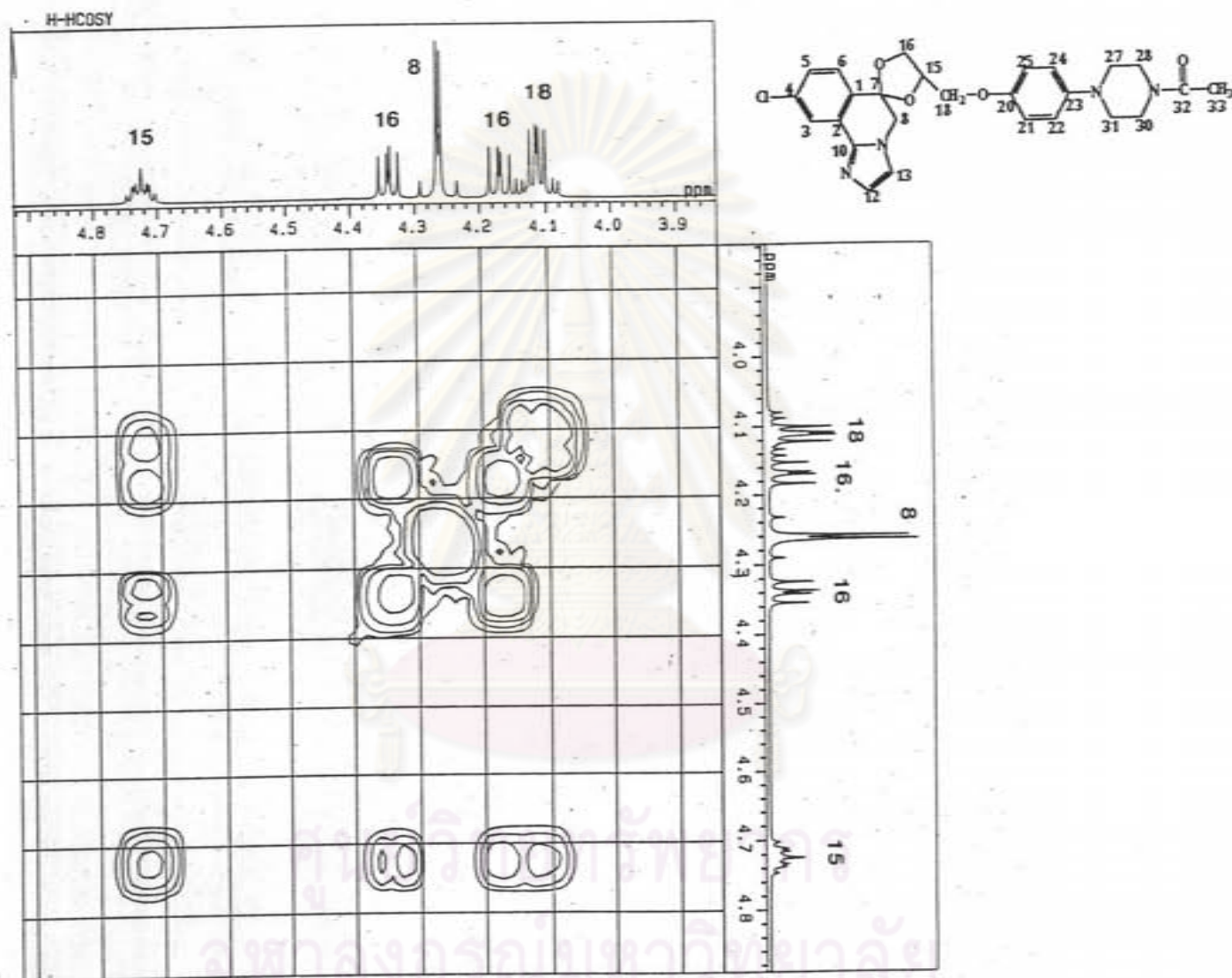


Figure 21 : The 500 MHz ^1H - ^1H COSY spectrum of compound A in chloroform - *d*
 (Expansion between 3.9 - 4.9 ppm)

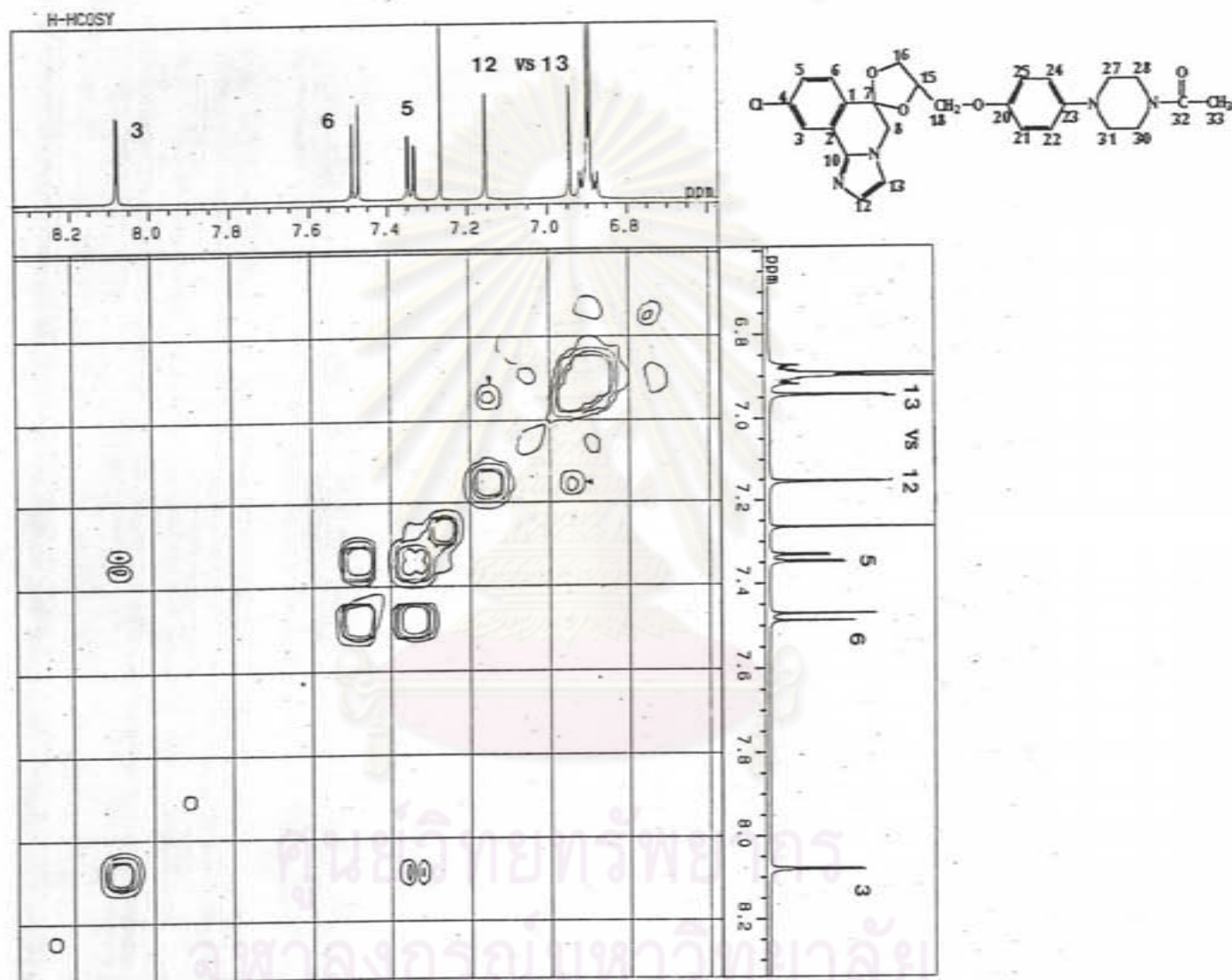


Figure 22 : The 500 MHz ^1H - ^1H COSY spectrum of compound A in chloroform - *d*
 (Expansion between 6.8 - 8.2 ppm)

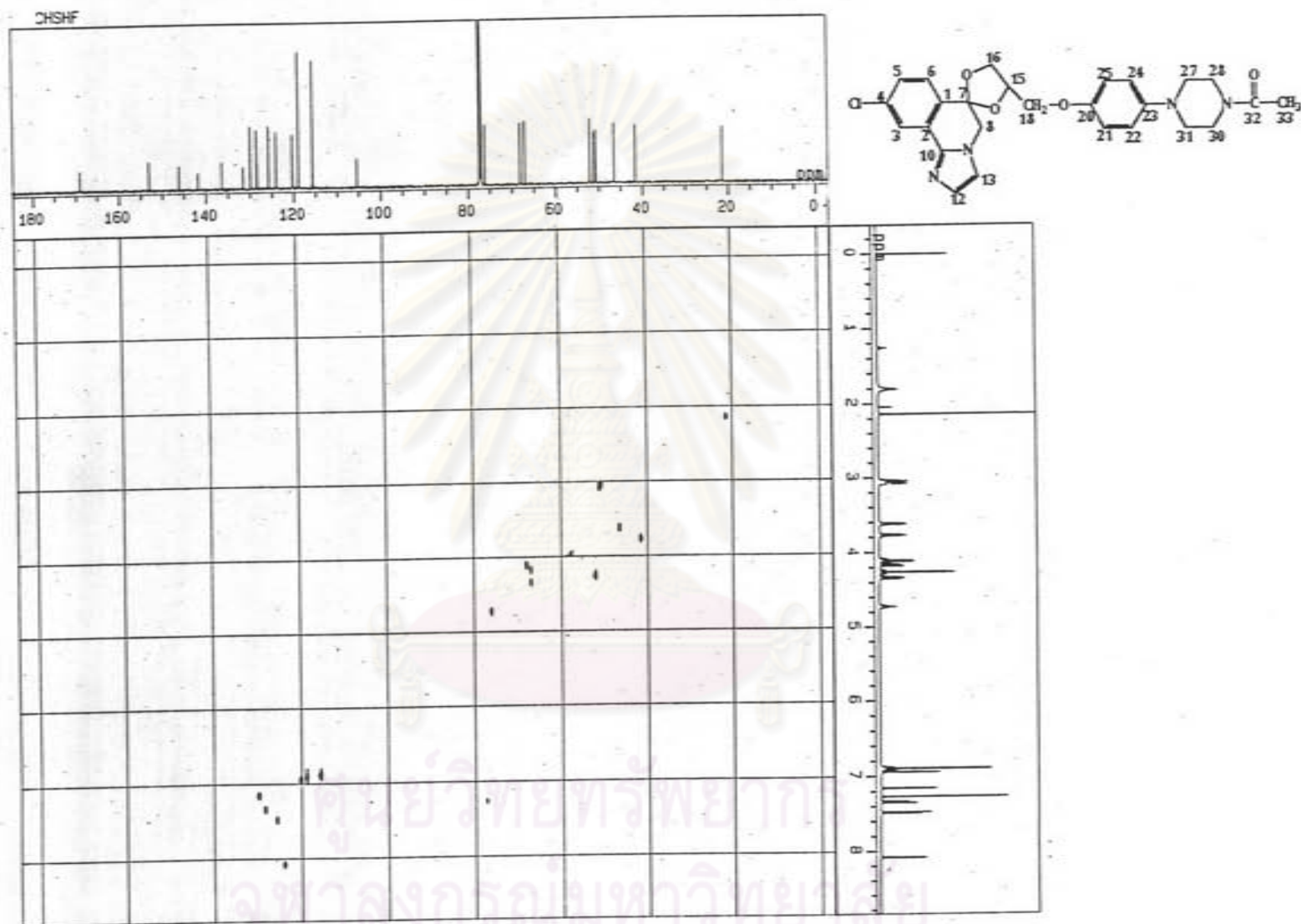


Figure 23 : The 125 MHz ^{13}C - ^1H COSY spectrum of compound A in chloroform - *d* (Full spectrum)

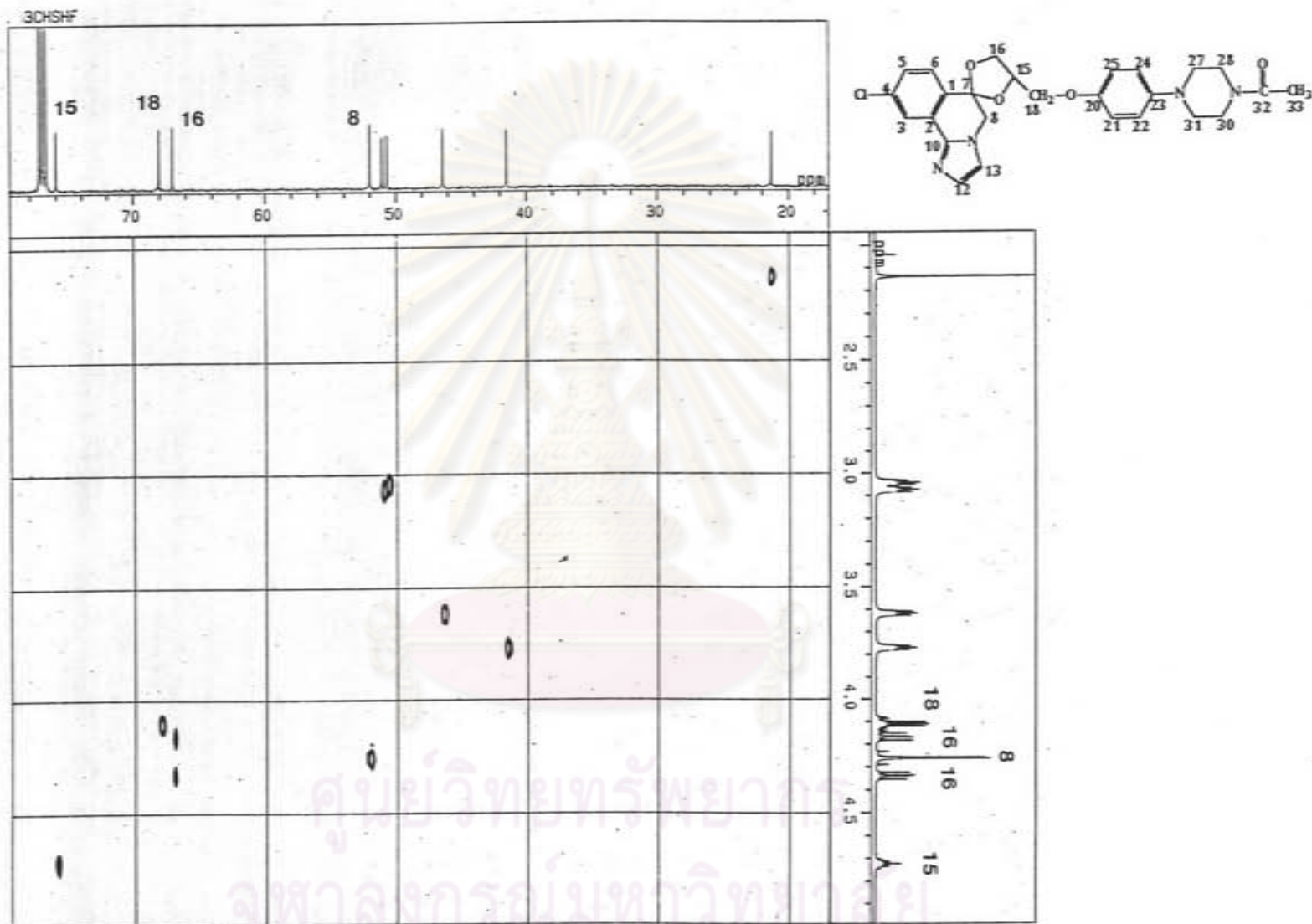


Figure 24 : The 125 MHz ^{13}C - ^1H COSY spectrum of compound A in chloroform - *d*
 (Expansion : X scale between 20-80 ppm and Y scale between 2.0 - 4.8 ppm)

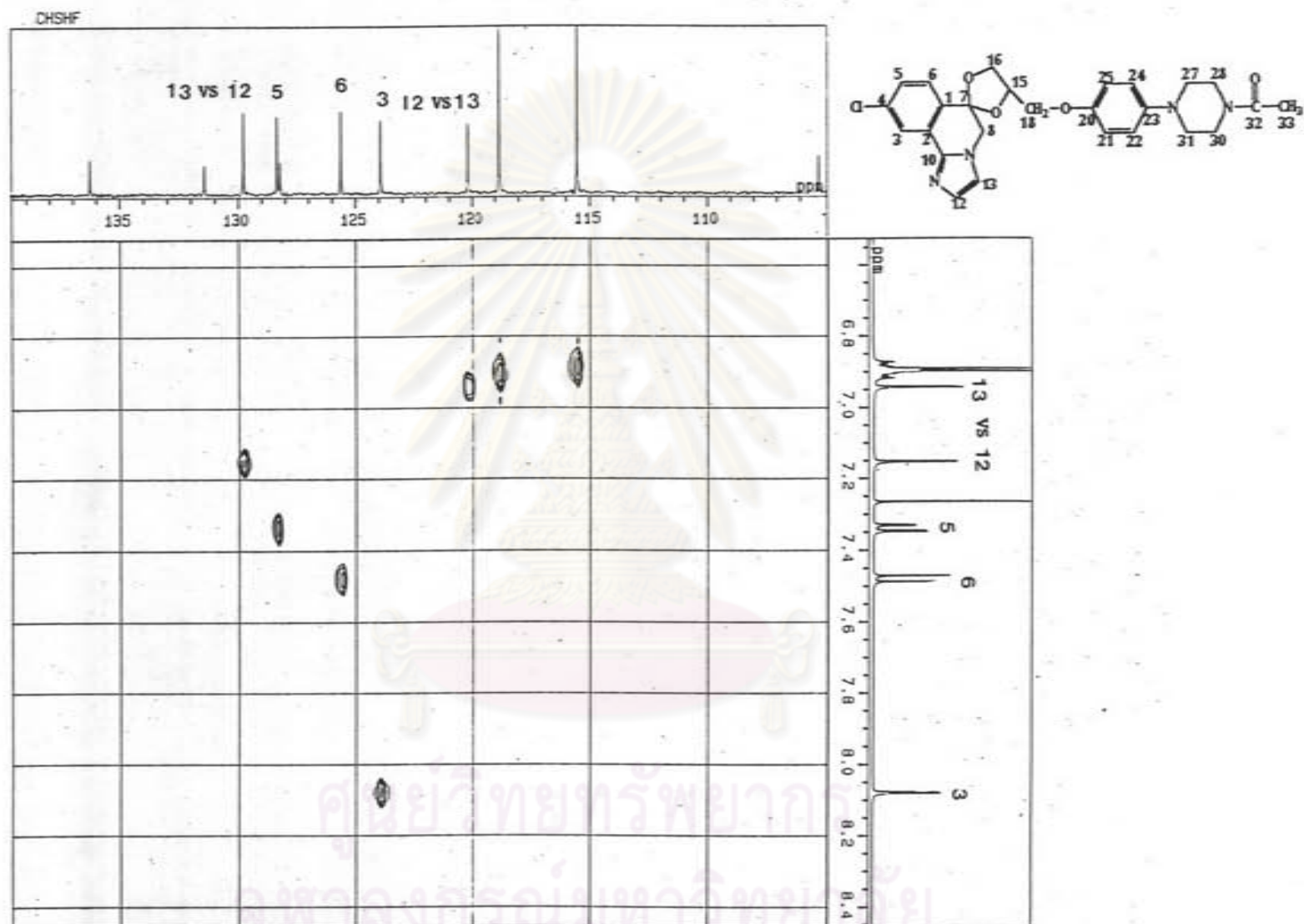


Figure 25 : The 125 MHz ^{13}C - ^1H COSY spectrum of compound A in chloroform - *d*

(Expansion : X scale between 100 - 140 ppm and Y scale between 6.6 - 8.4 ppm)

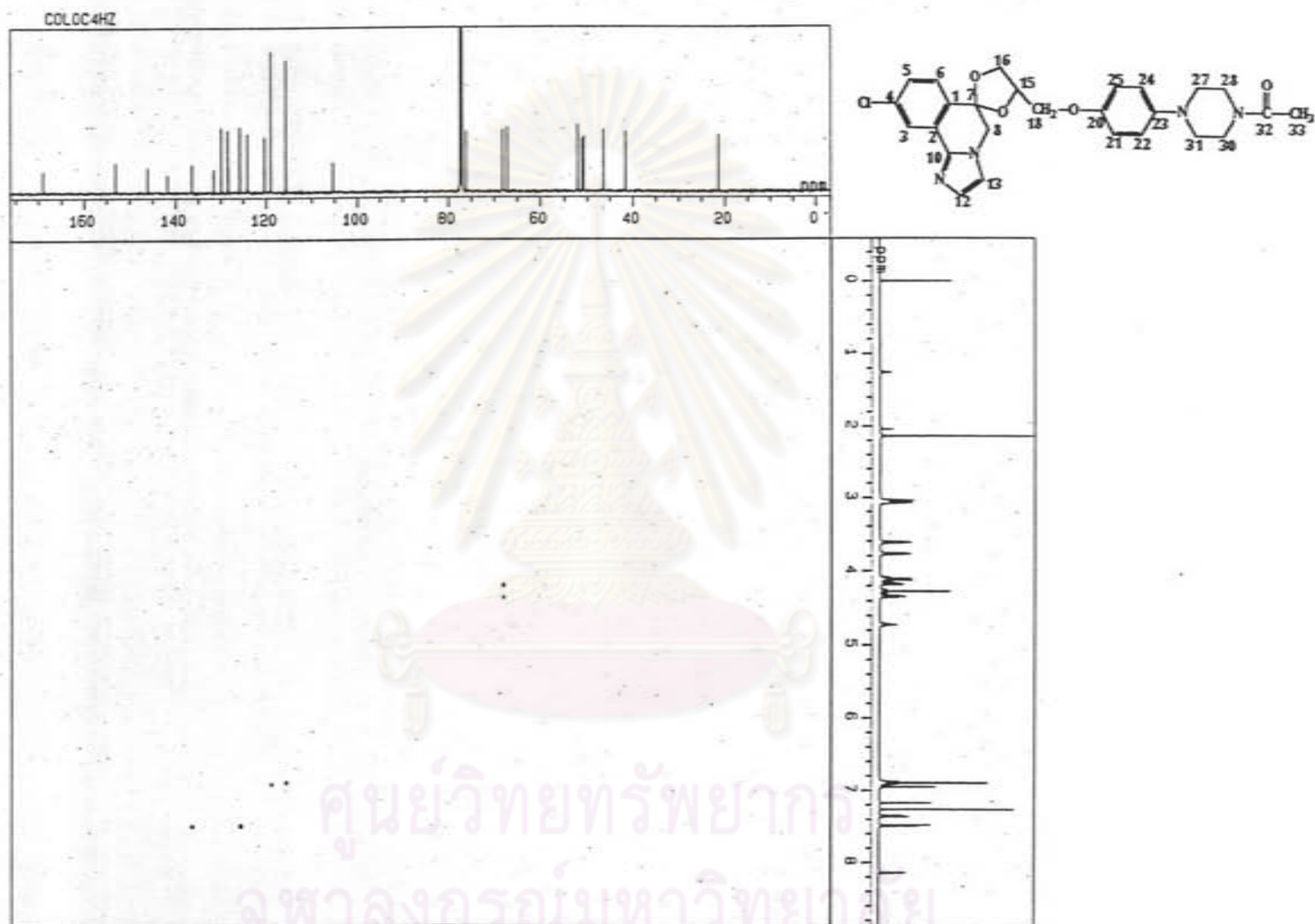


Figure 26 : The 500 MHz COLOC spectrum (at 4 Hz) of compound A in chloroform - *d* (Full spectrum)

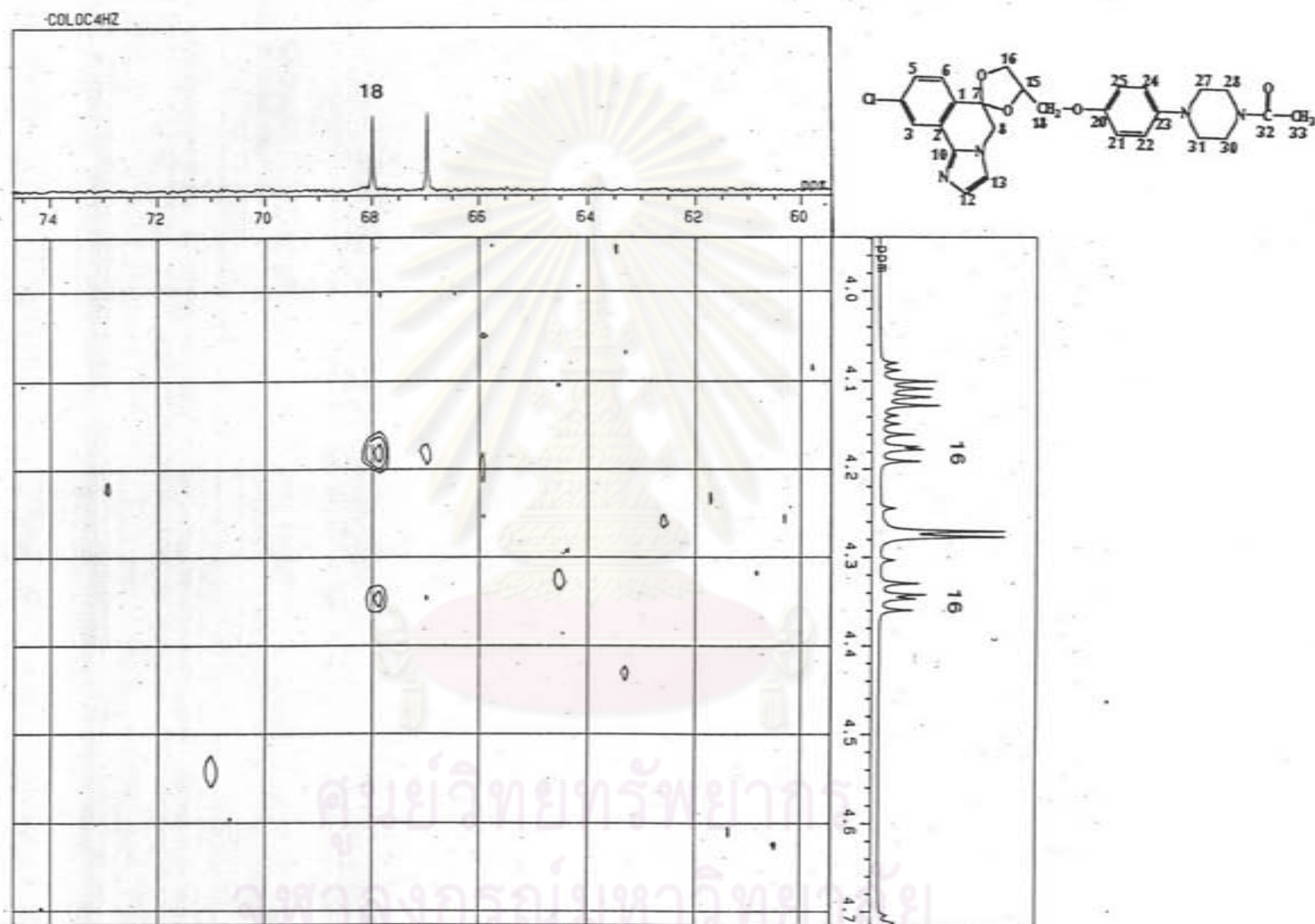


Figure 27 : The 500 MHz COLOC spectrum of compound A (at 4 Hz) in chloroform - *d*
 (Expansion : X scale between 60 -74 ppm and Y scale between 4.0 - 4.7 ppm)

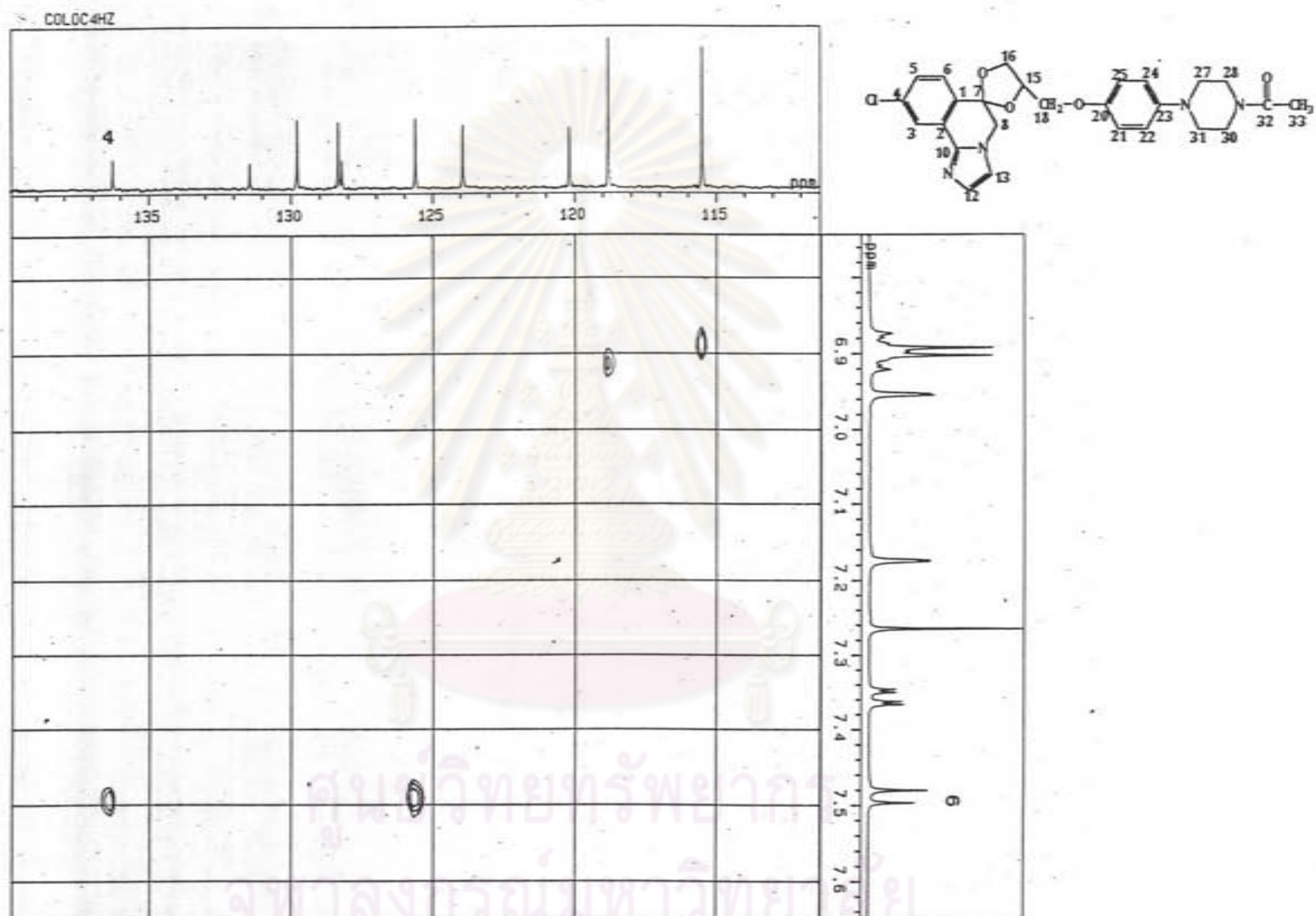


Figure 28 : The 500 MHz COLOC spectrum of compound A (at 4 Hz) in chloroform - *d*
 (Expansion : X scale between 111 -141 ppm and Y scale between 6.8 -7.6 ppm)

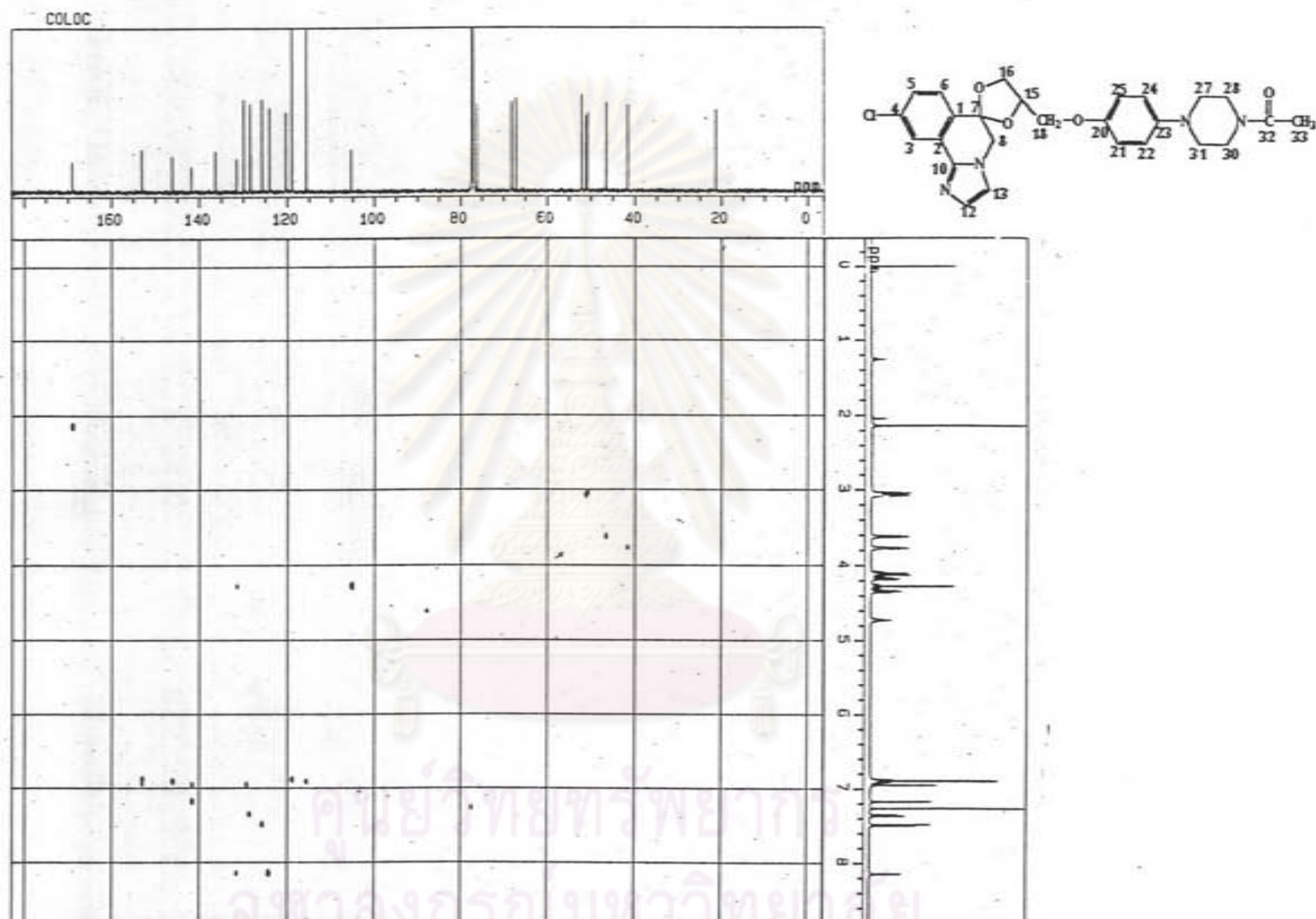


Figure29 :The 500 MHz COLOC spectrum (at 8 Hz) of compound A in chloroform - *d* (Full spectrum)

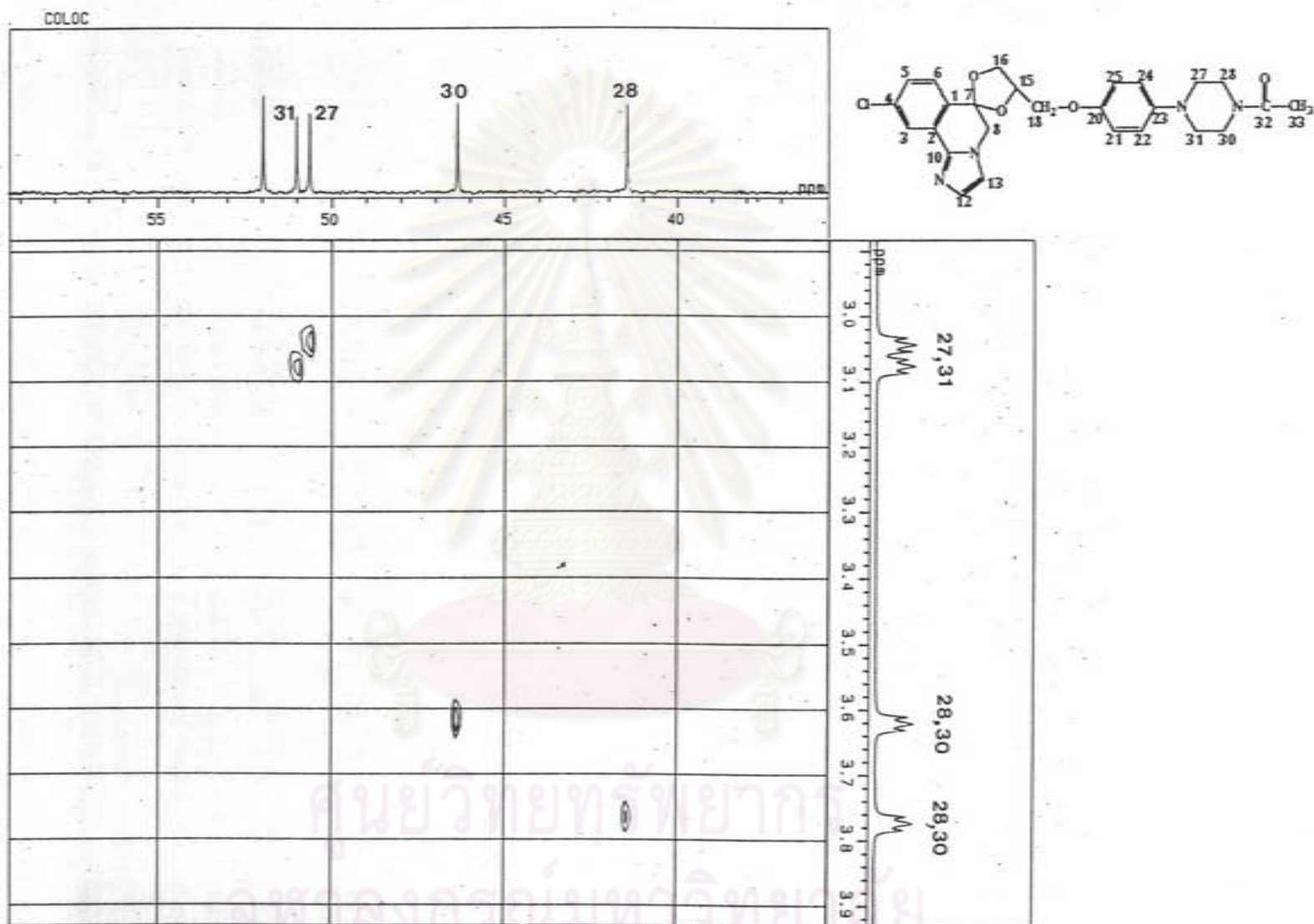


Figure 30 : The 500 MHz COLOC spectrum of compound A (at 8 Hz) in chloroform - *d*
 (Expansion : X scale between 35 - 60 ppm and Y scale between 2.9 -3.9 ppm)

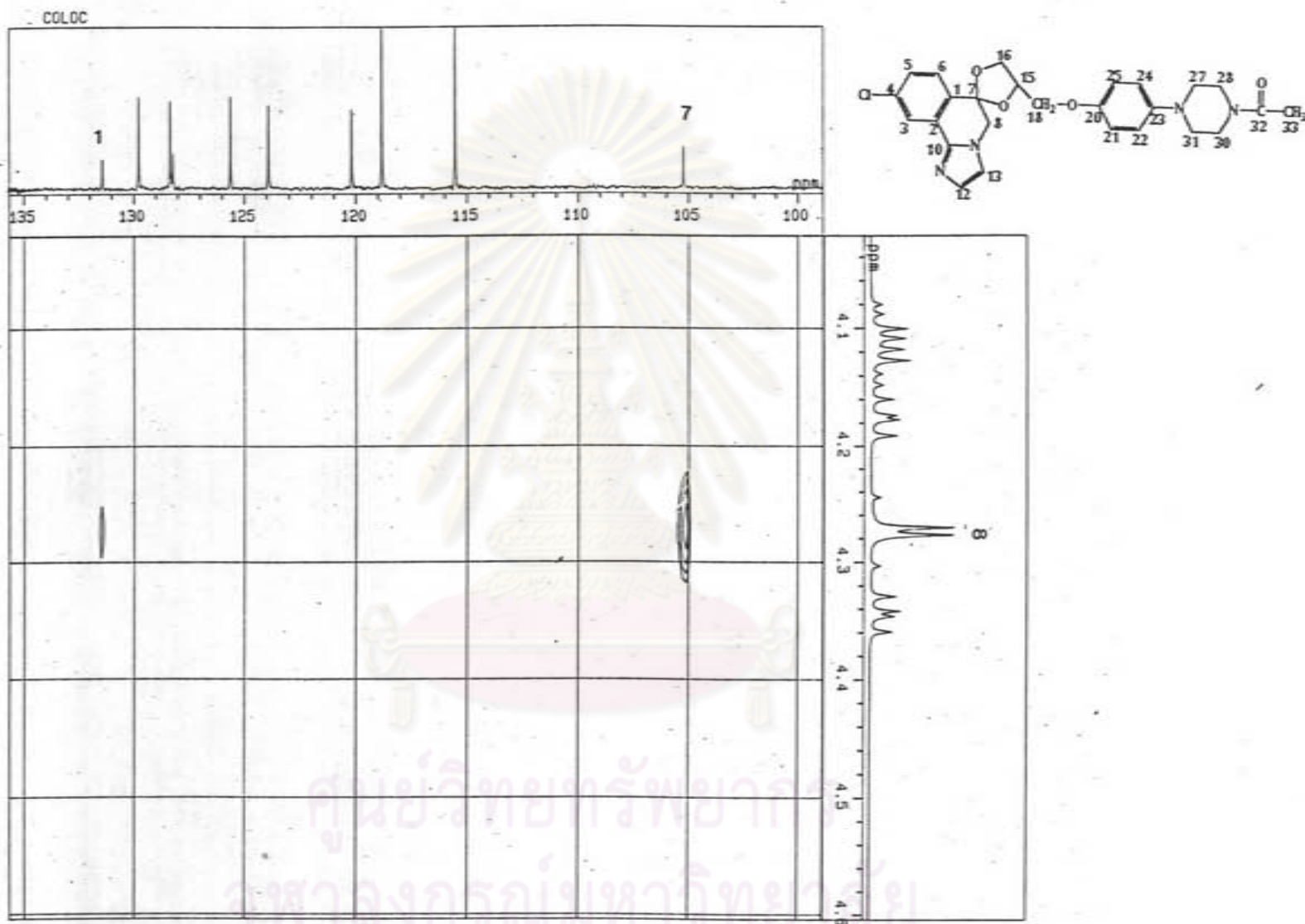


Figure 31 : The 500 MHz COLOC spectrum of compound A (at 8 Hz) in chloroform - *d*
 (Expansion · X scale between 99 - 135 ppm and Y scale between 4.0 - 4.6 ppm)

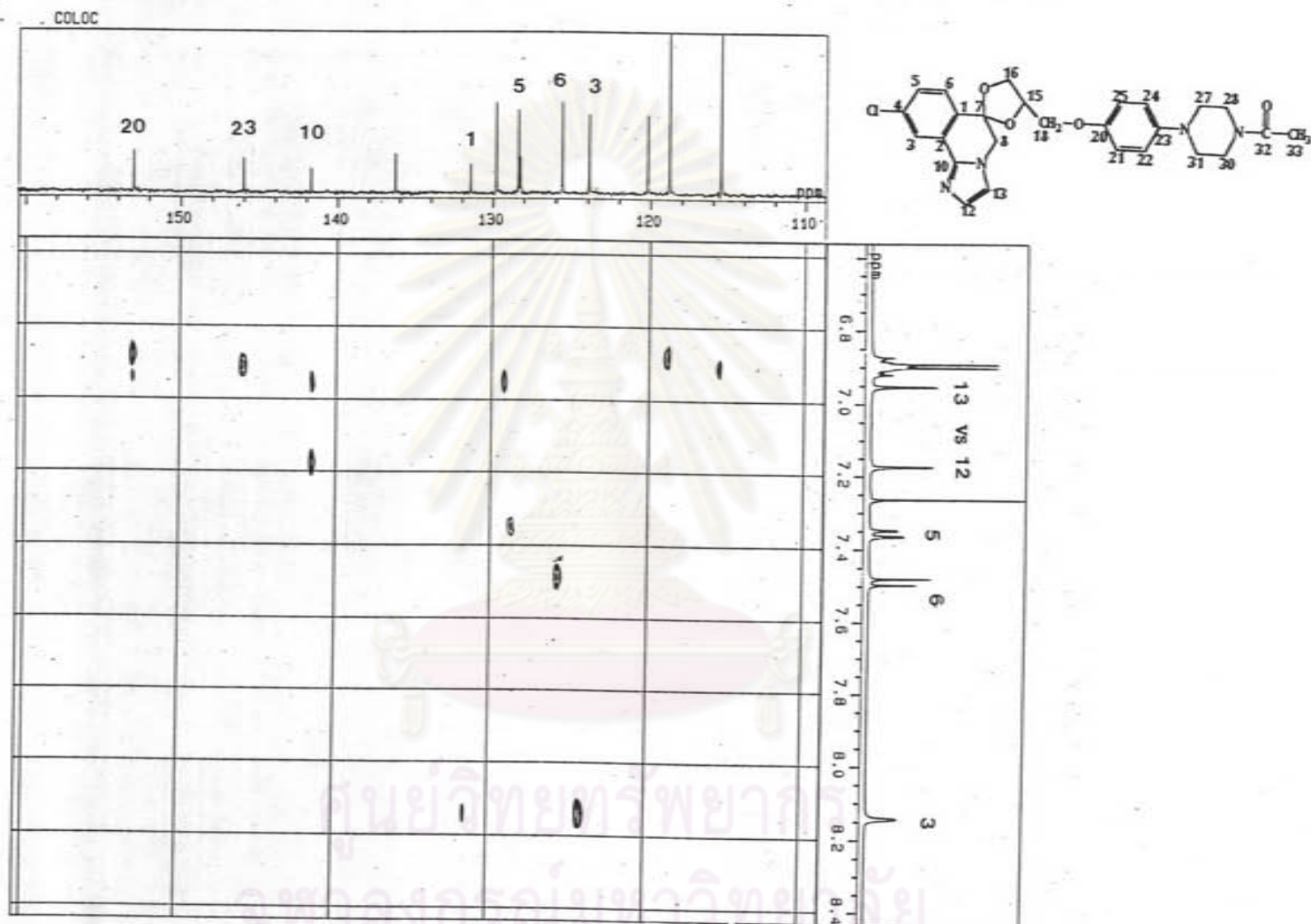


Figure 32 : The 500 MHz COLOC spectrum of compound A (at 8 Hz) in chloroform - *d*
 (Expansion : X scale between 110 - 160 ppm and Y scale between 6.7 - 8.4 ppm)

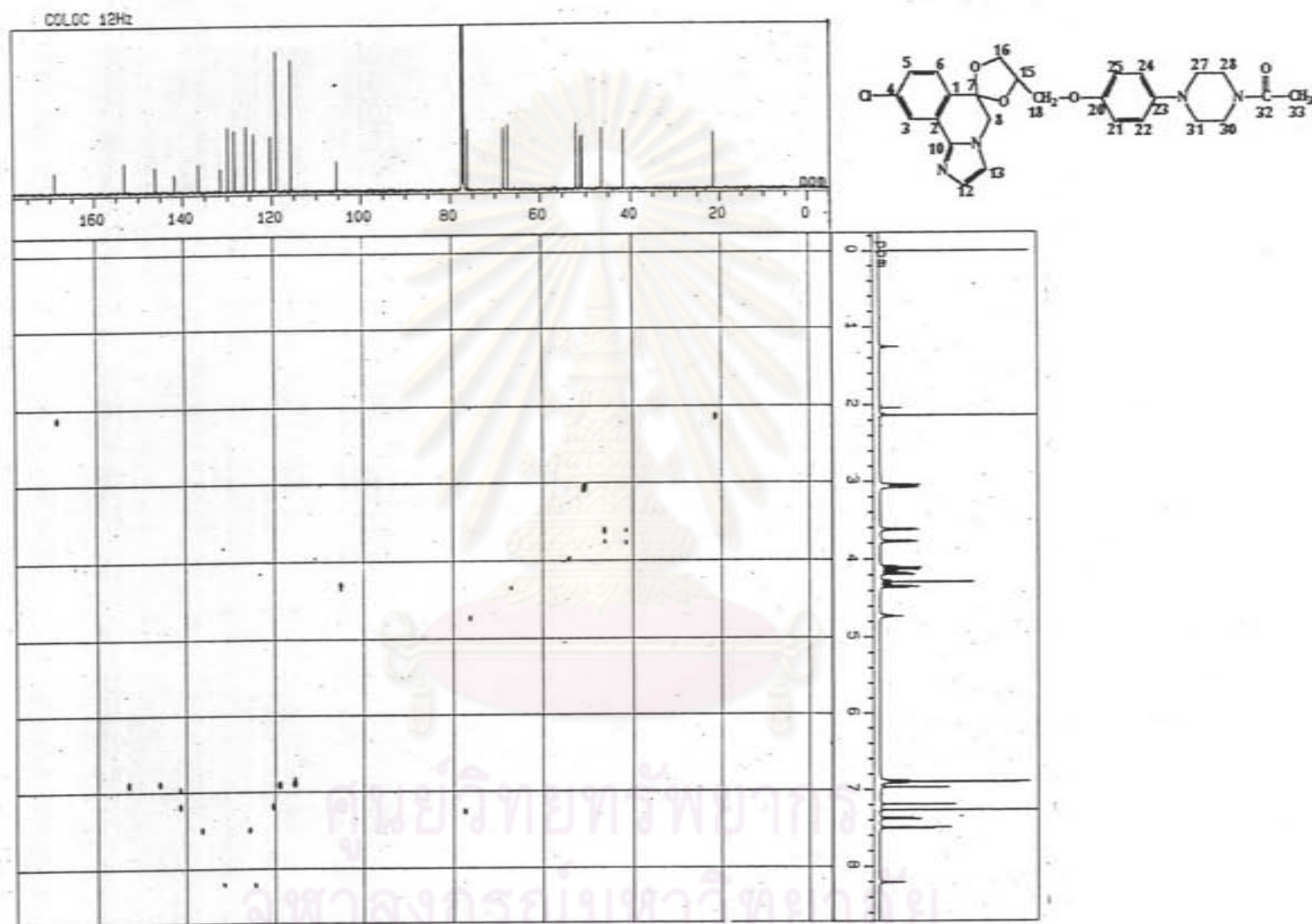


Figure 33 : The 500 MHz COLOC spectrum (at 12 Hz) of compound A in chloroform - *d* (Full spectrum)

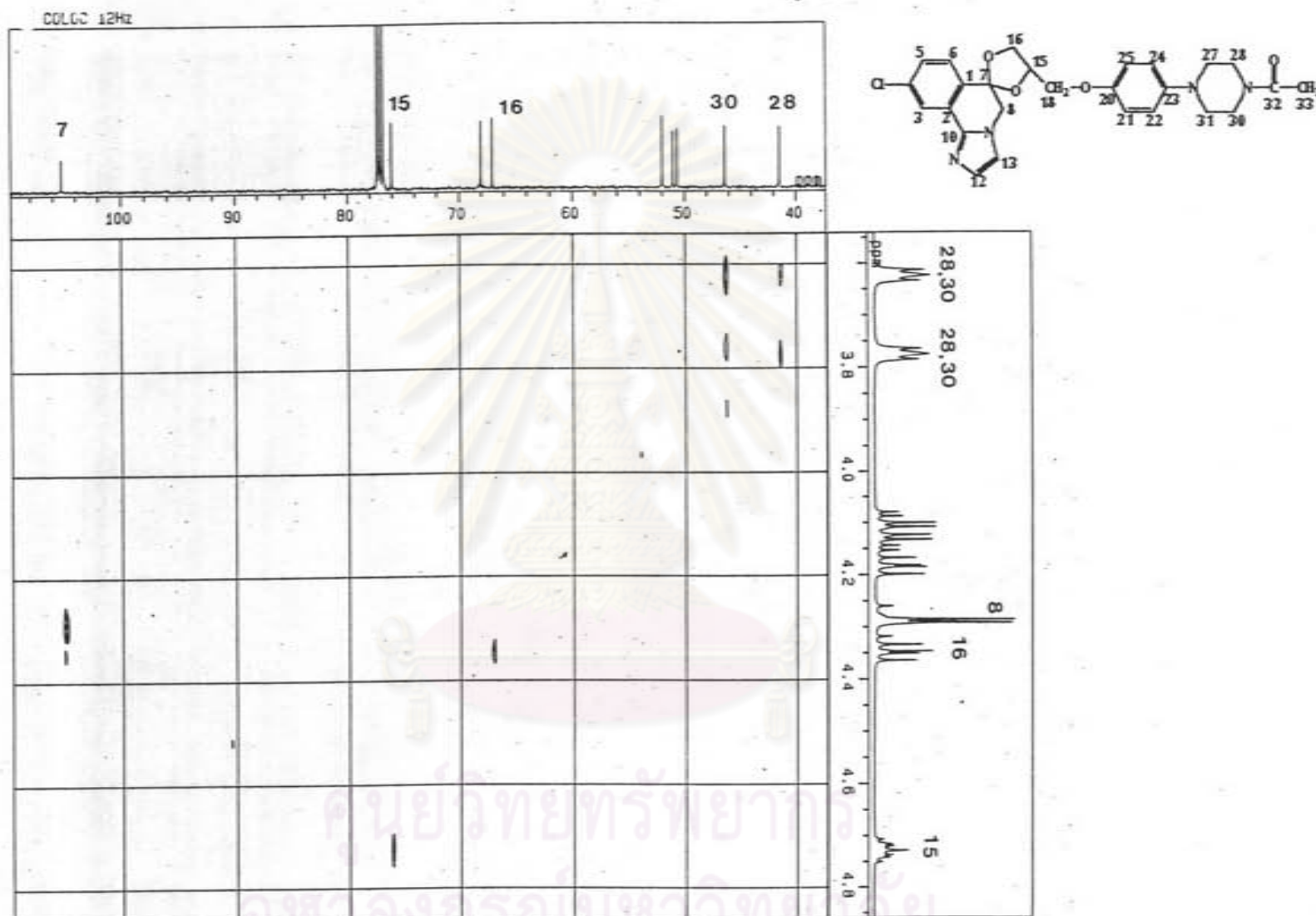


Figure 34 : The 500 MHz COLOC spectrum of compound A (at 12 Hz) in chloroform-*d*

(Expansion : X scale between 39-110 ppm and Y scale between 3.7 - 4.8 ppm)

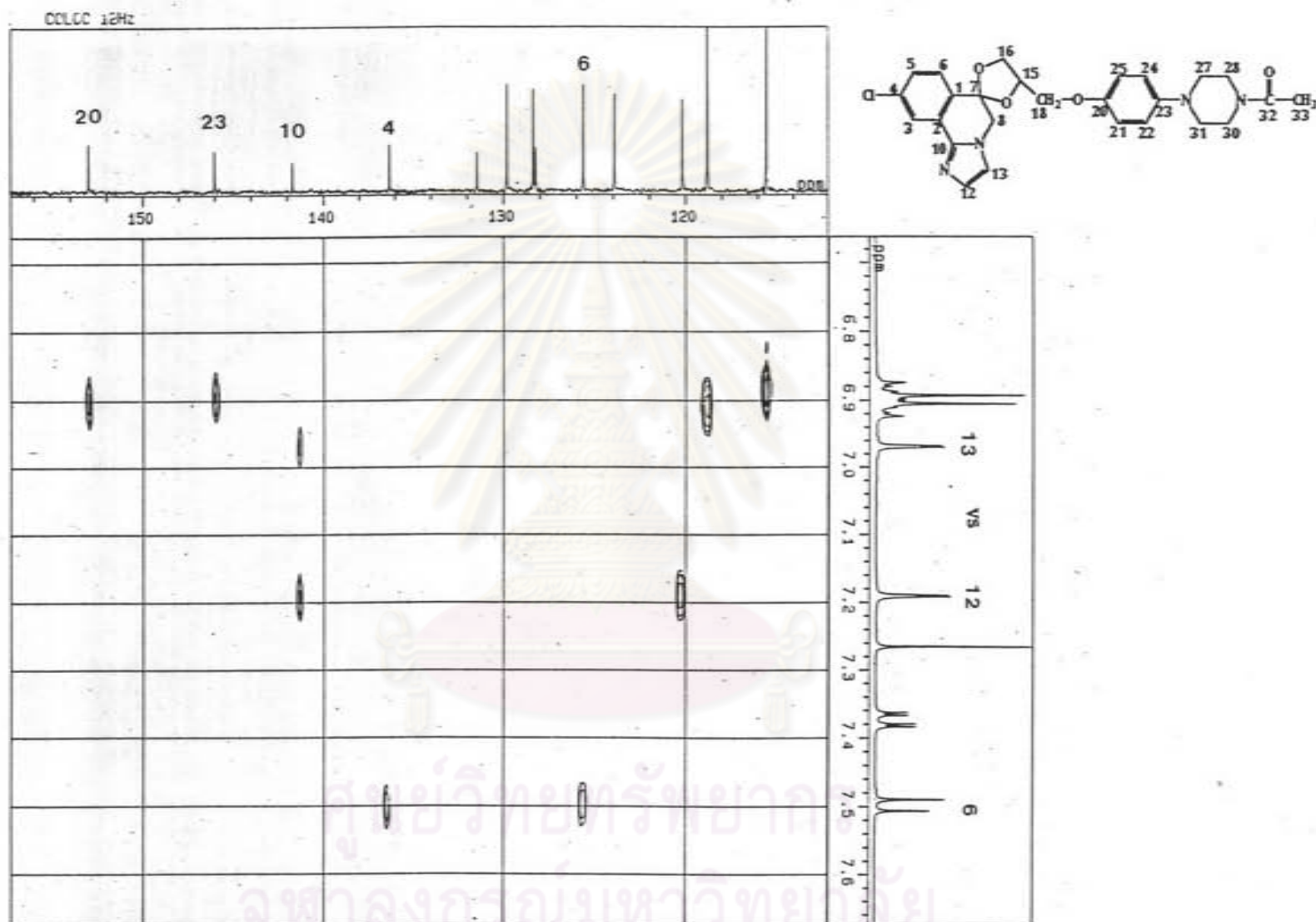
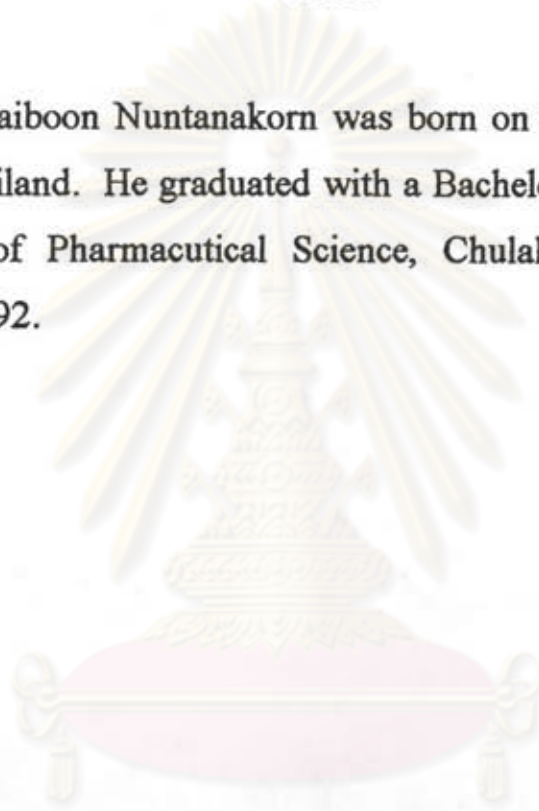


Figure 35: The 500 MHz COLLOC spectrum of compound A (at 12 Hz) in chloroform - *d*
 (Expansion : X scale between 112 - 158 ppm and Y scale between 6.7 - 7.7 ppm)



VITA

Mr. Paiboon Nuntanakorn was born on February 1, 1969 , in Rachaburi ,Thailand. He graduated with a Bachelor degree of Pharmacy from Faculty of Pharmaceutical Science, Chulalongkorn University , Bangkok in 1992.



ศูนย์วิทยทรัพยากร
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