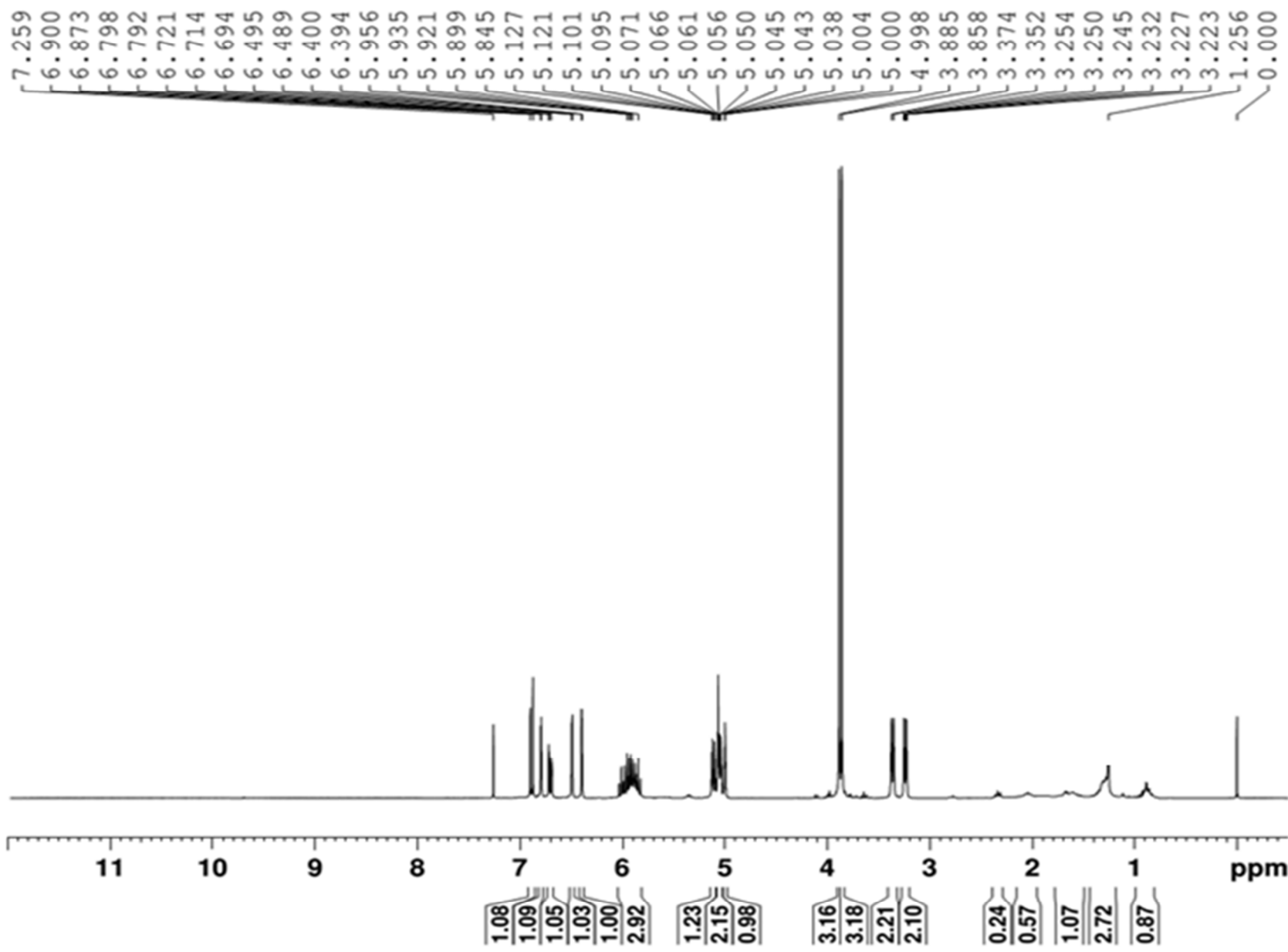
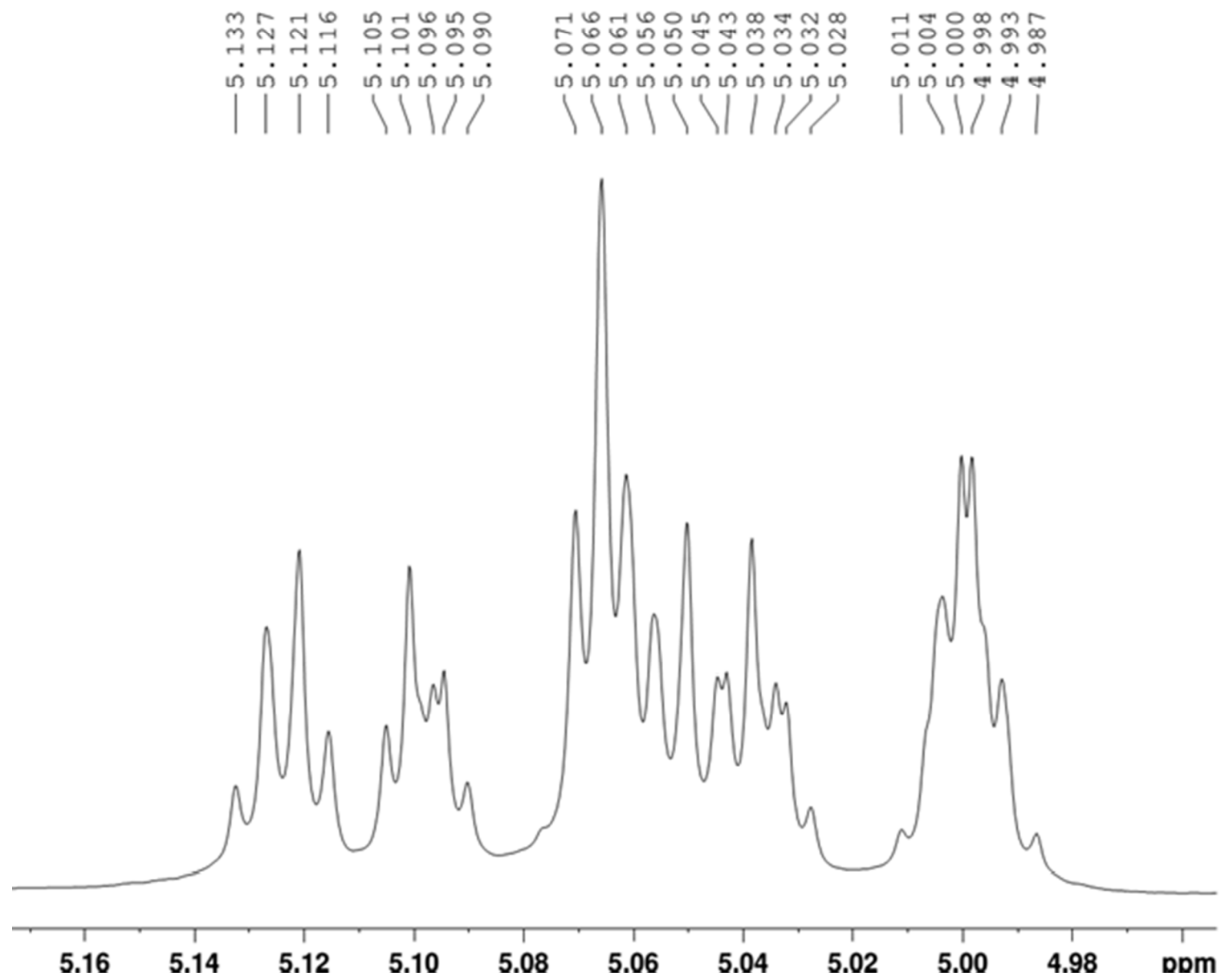
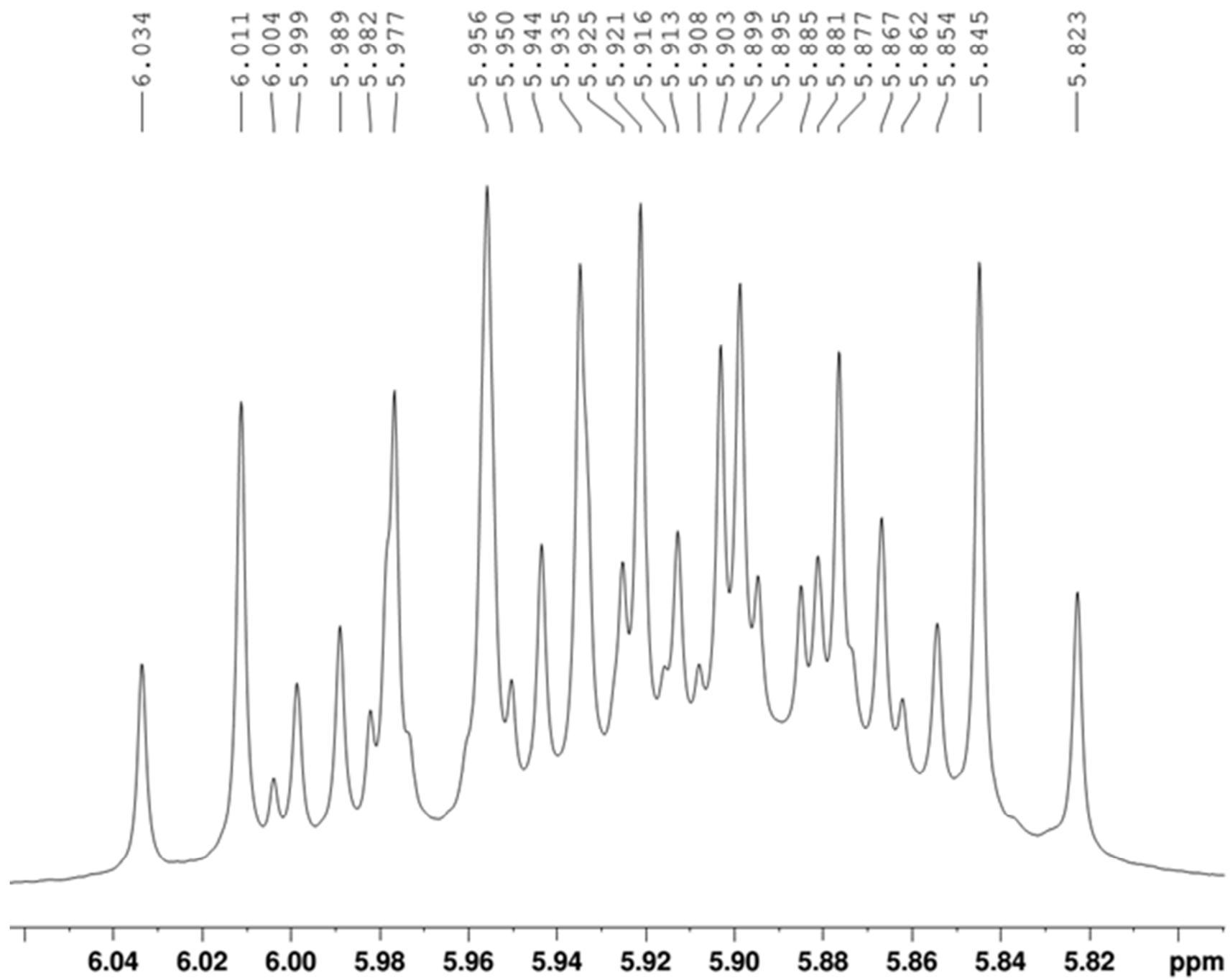


## COMPOUND 1

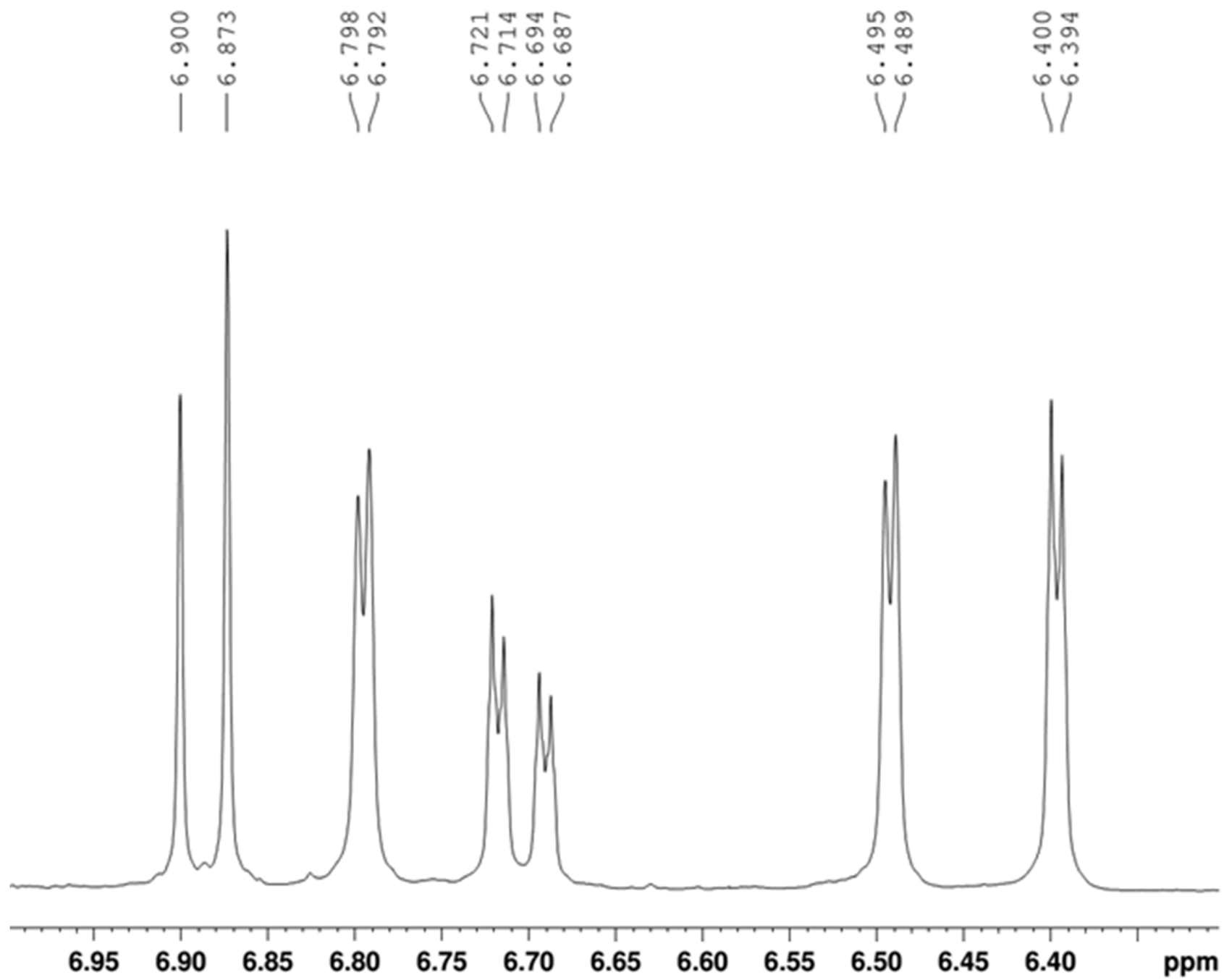
$^1\text{H}$  NMR spectrum ( $\delta$ ,  $\text{CDCl}_3$ , 300 MHz)





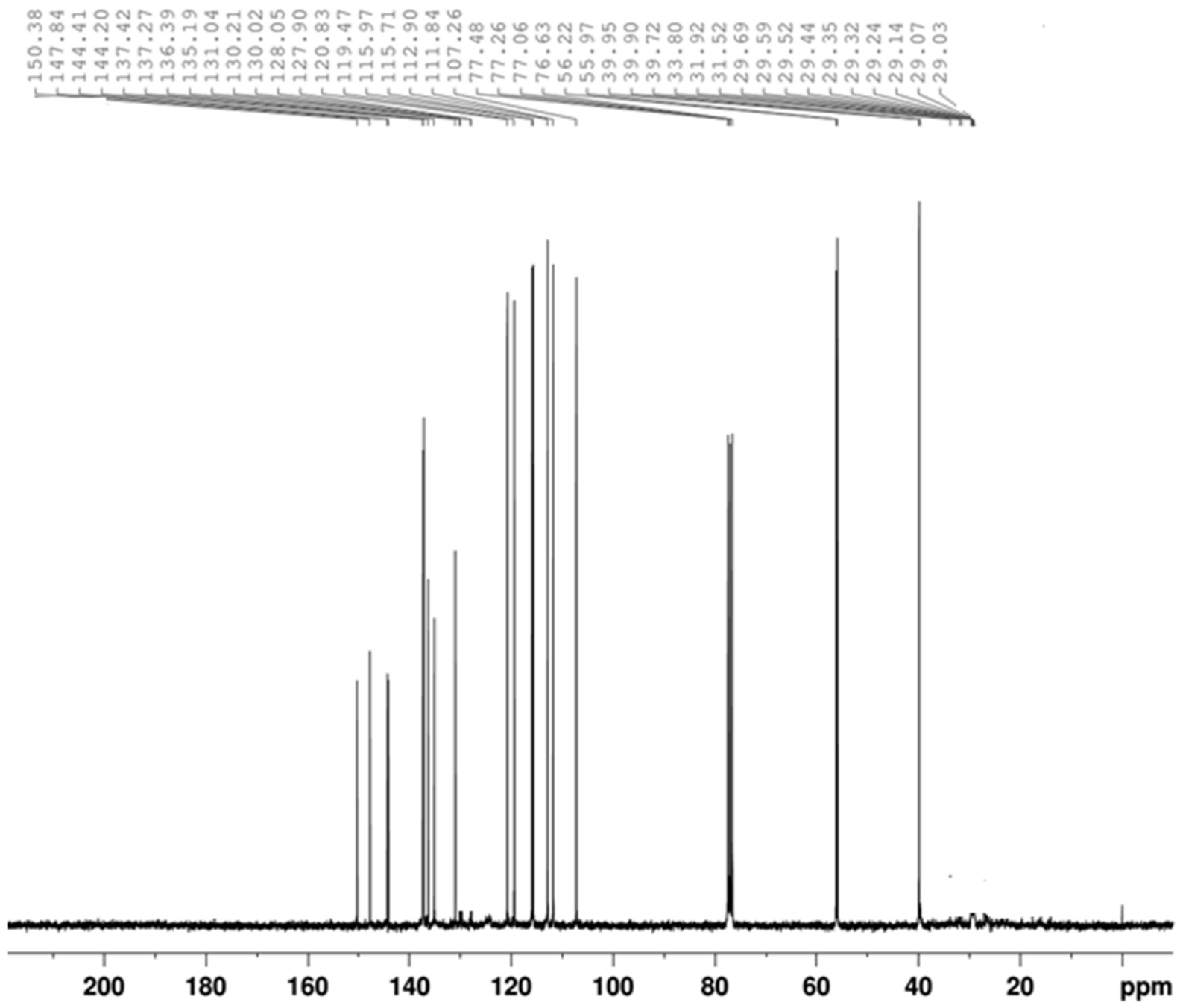


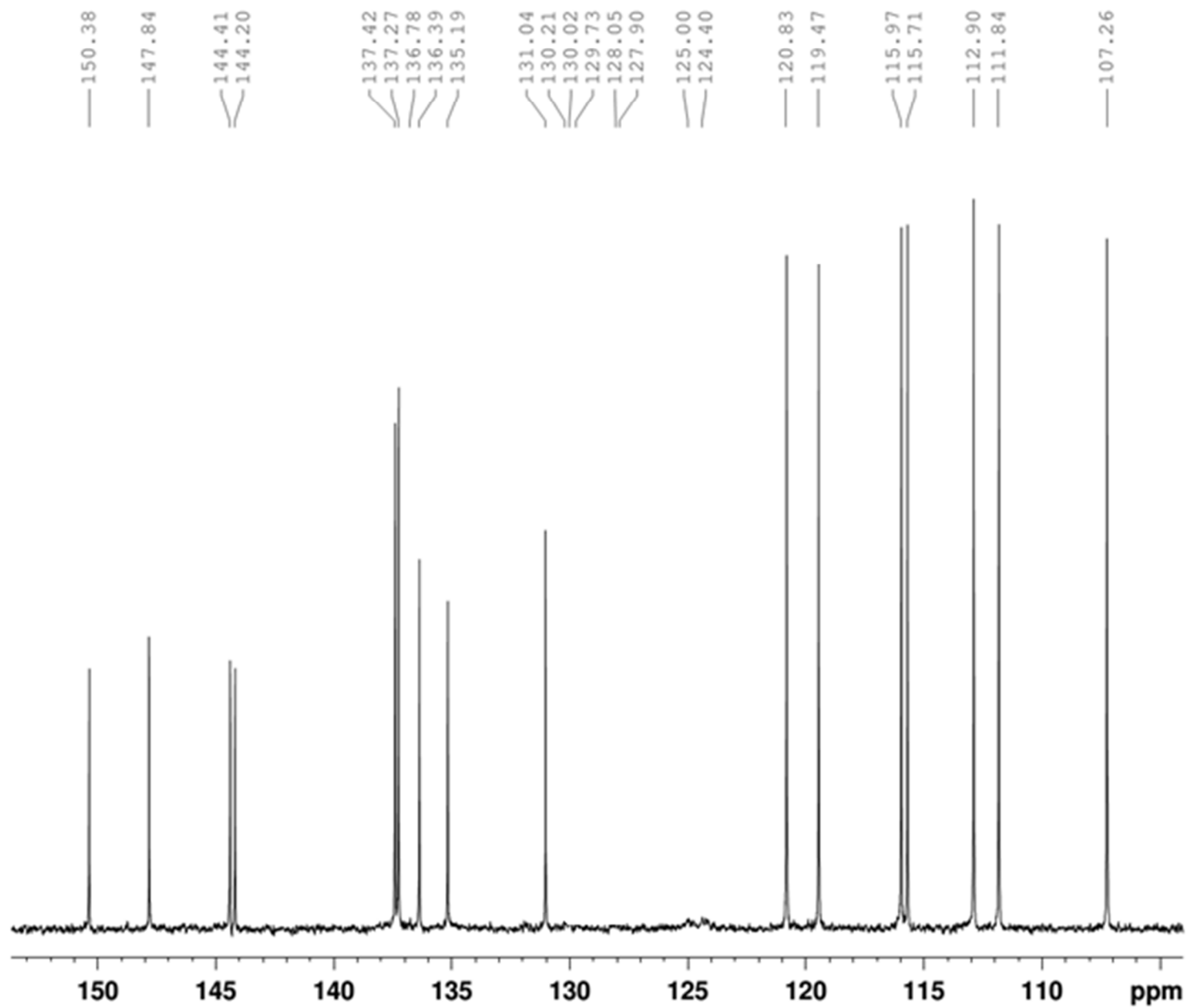




## COMPOUND 1

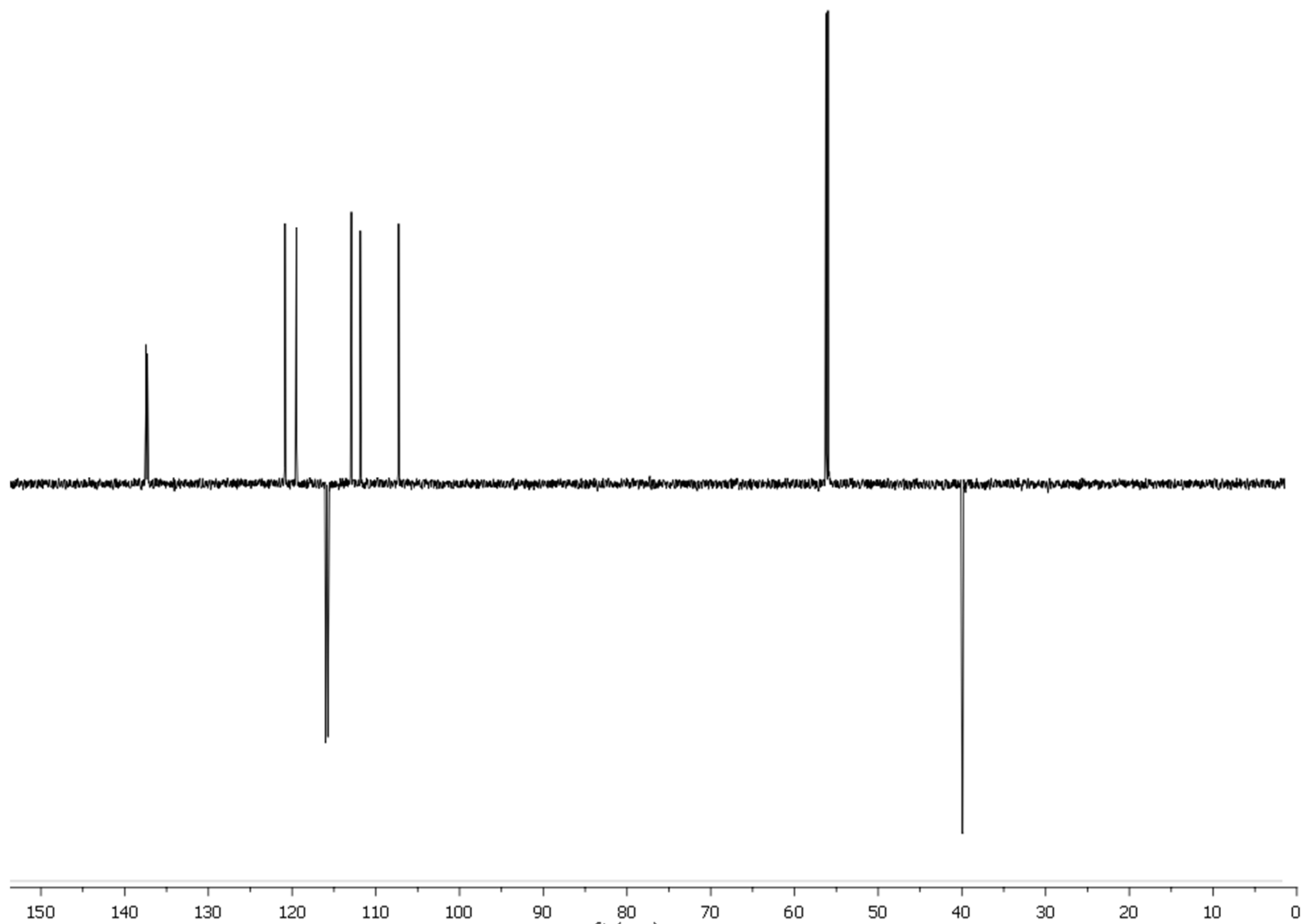
$^{13}\text{C}$  NMR spectrum ( $\delta$ ,  $\text{CDCl}_3$ , 75 MHz)





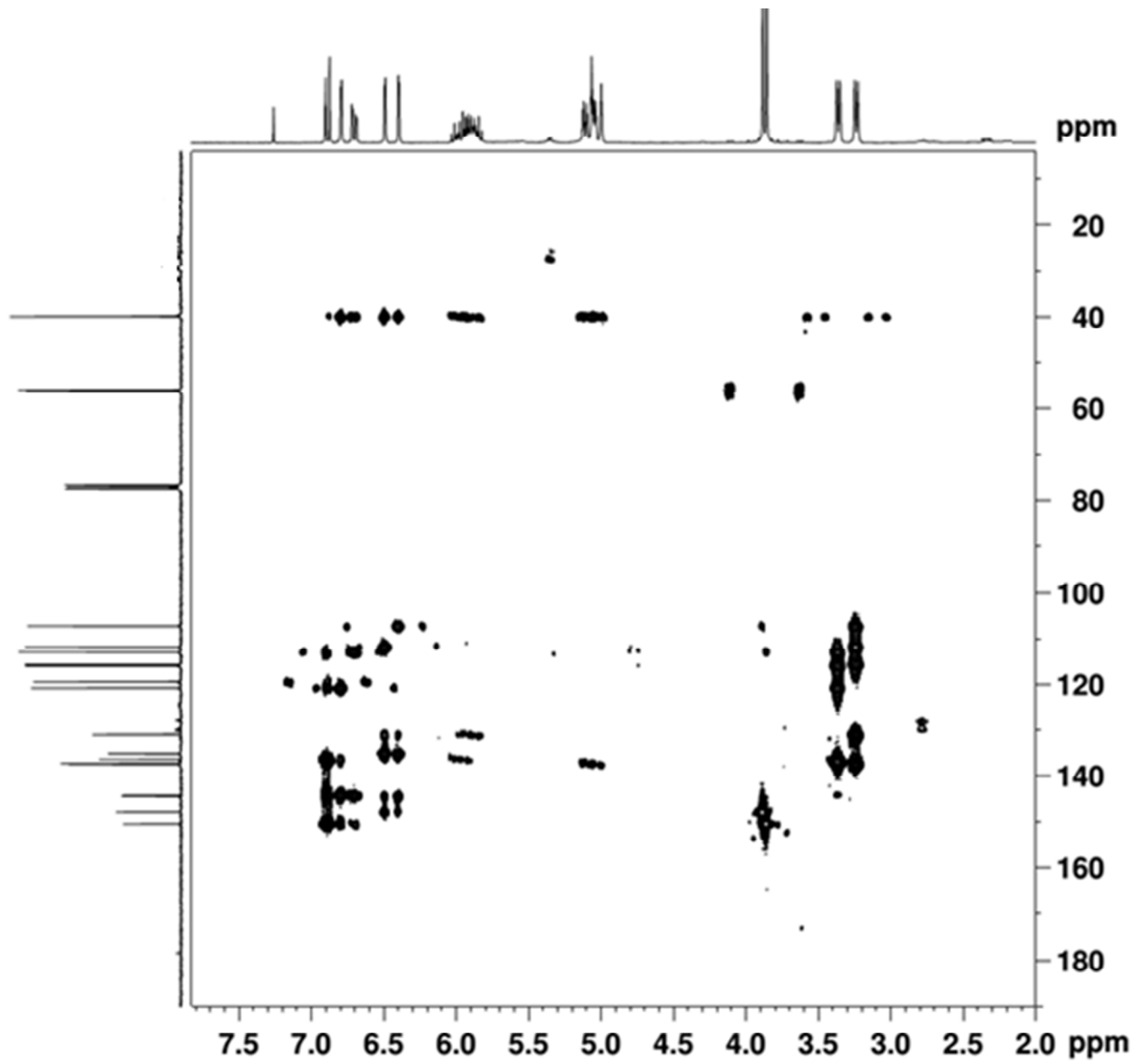
## COMPOUND 1

DEPT 135° NMR spectrum ( $\delta$ , CDCl<sub>3</sub>, 75 MHz)

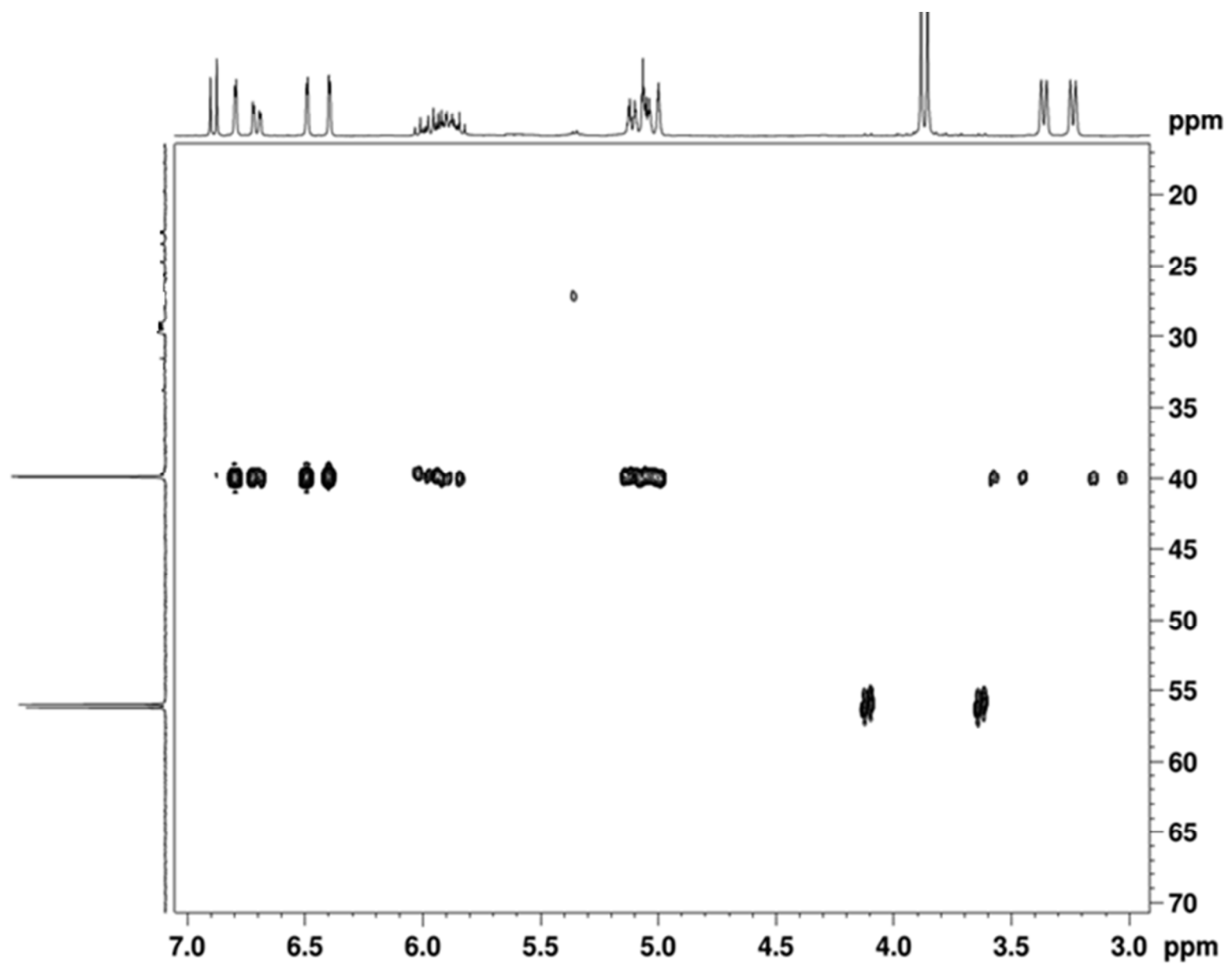


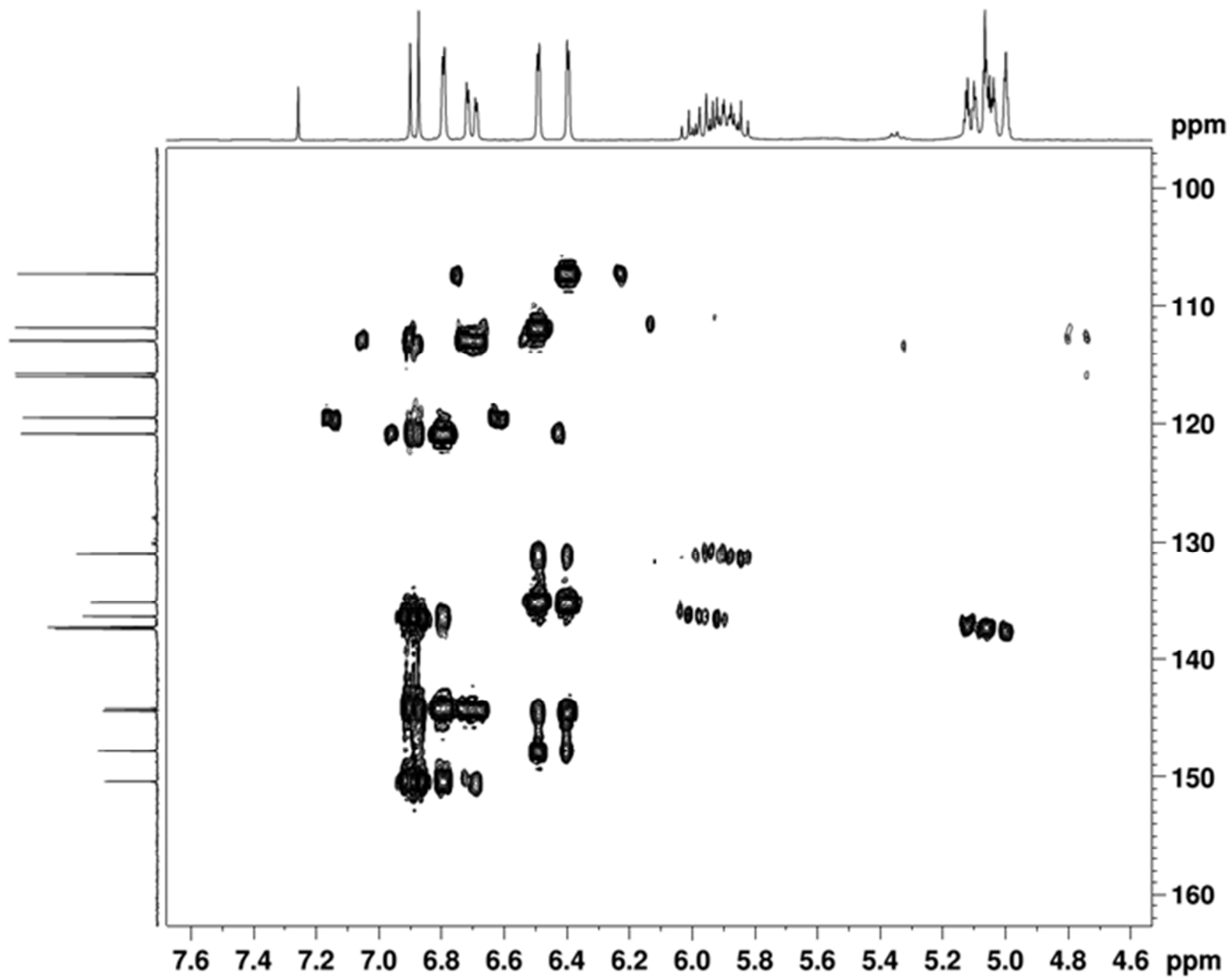
## **COMPOUND 1**

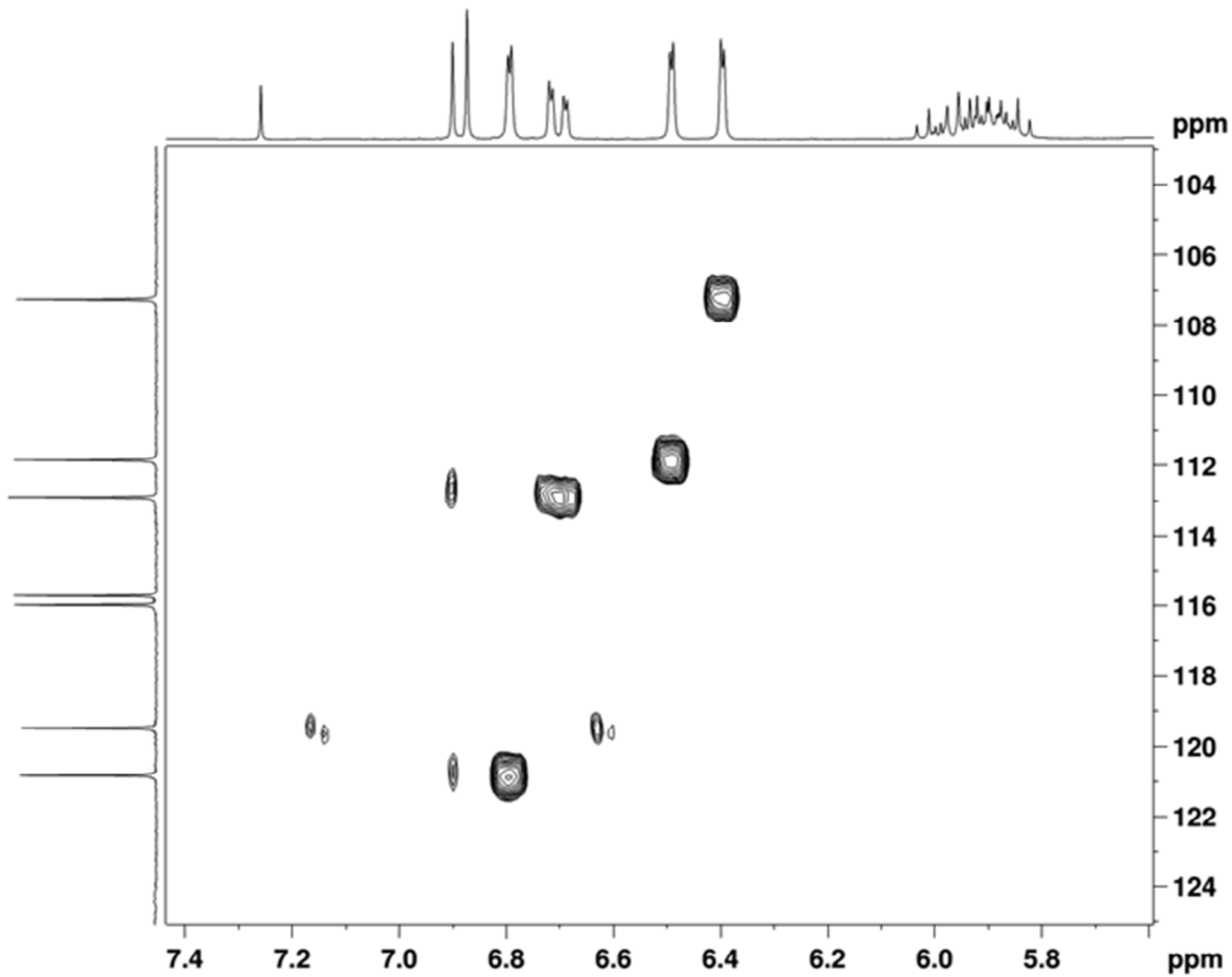
HMBC NMR spectrum ( $\delta$ , CDCl<sub>3</sub>, 300 and 75 MHz)

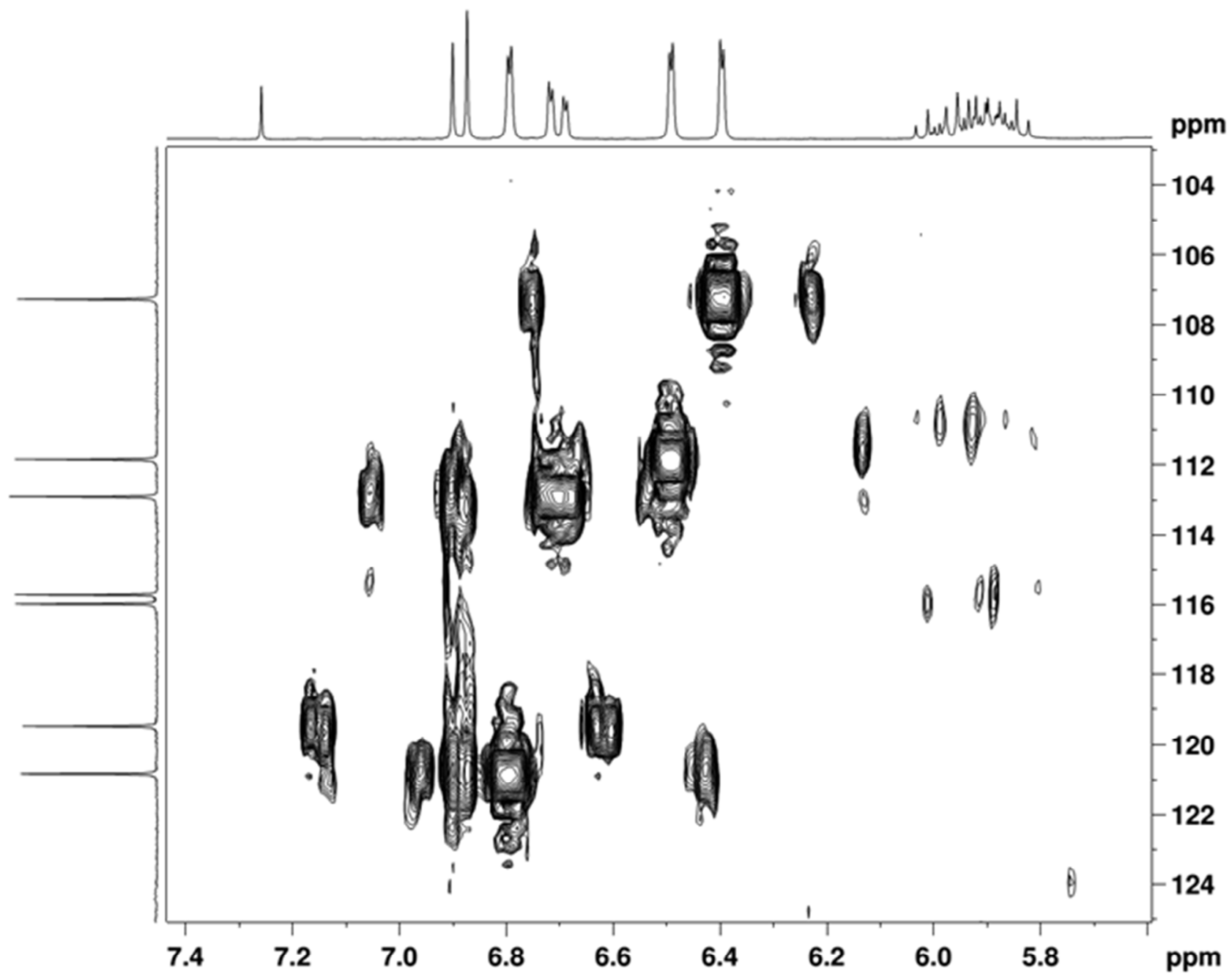


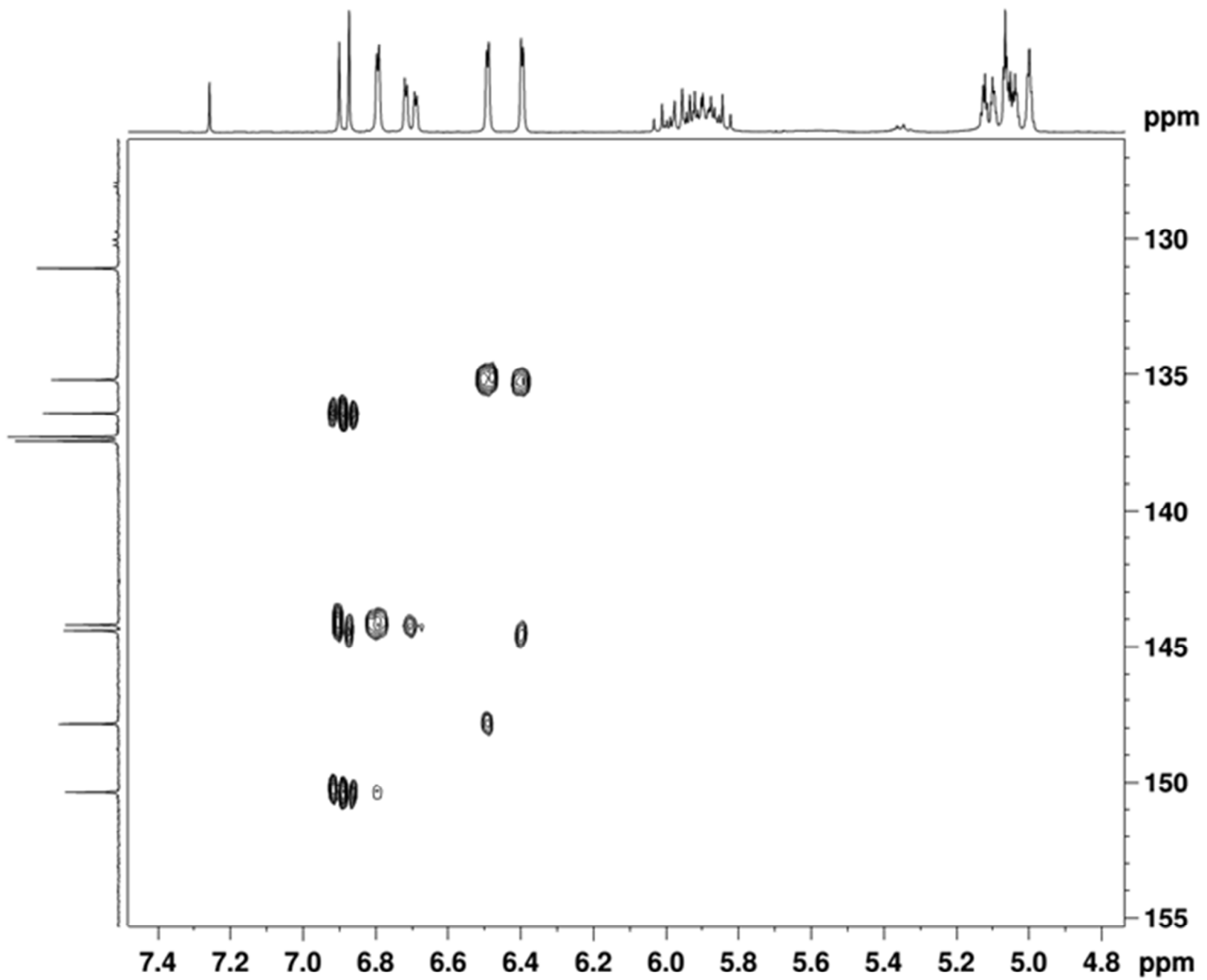


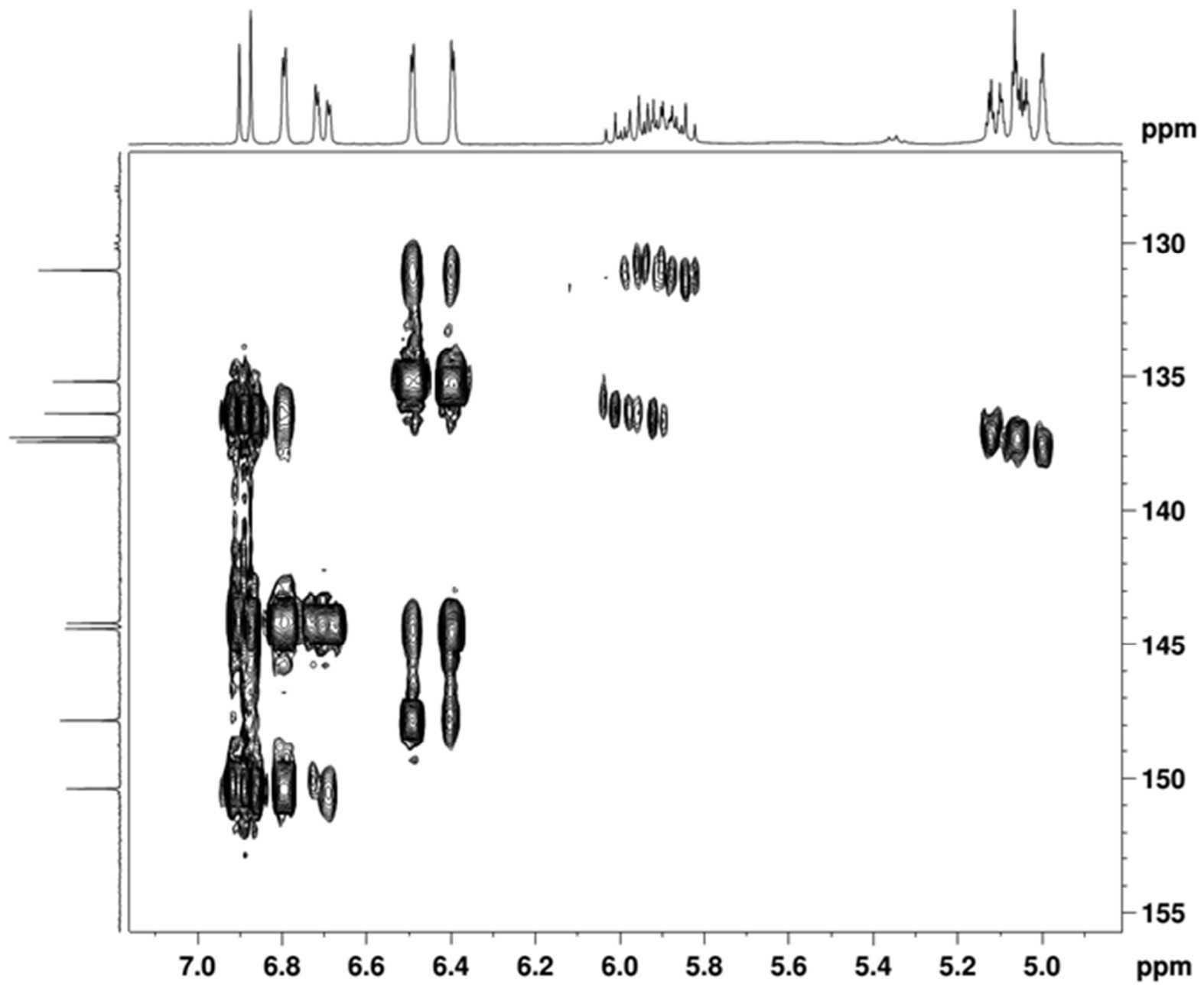






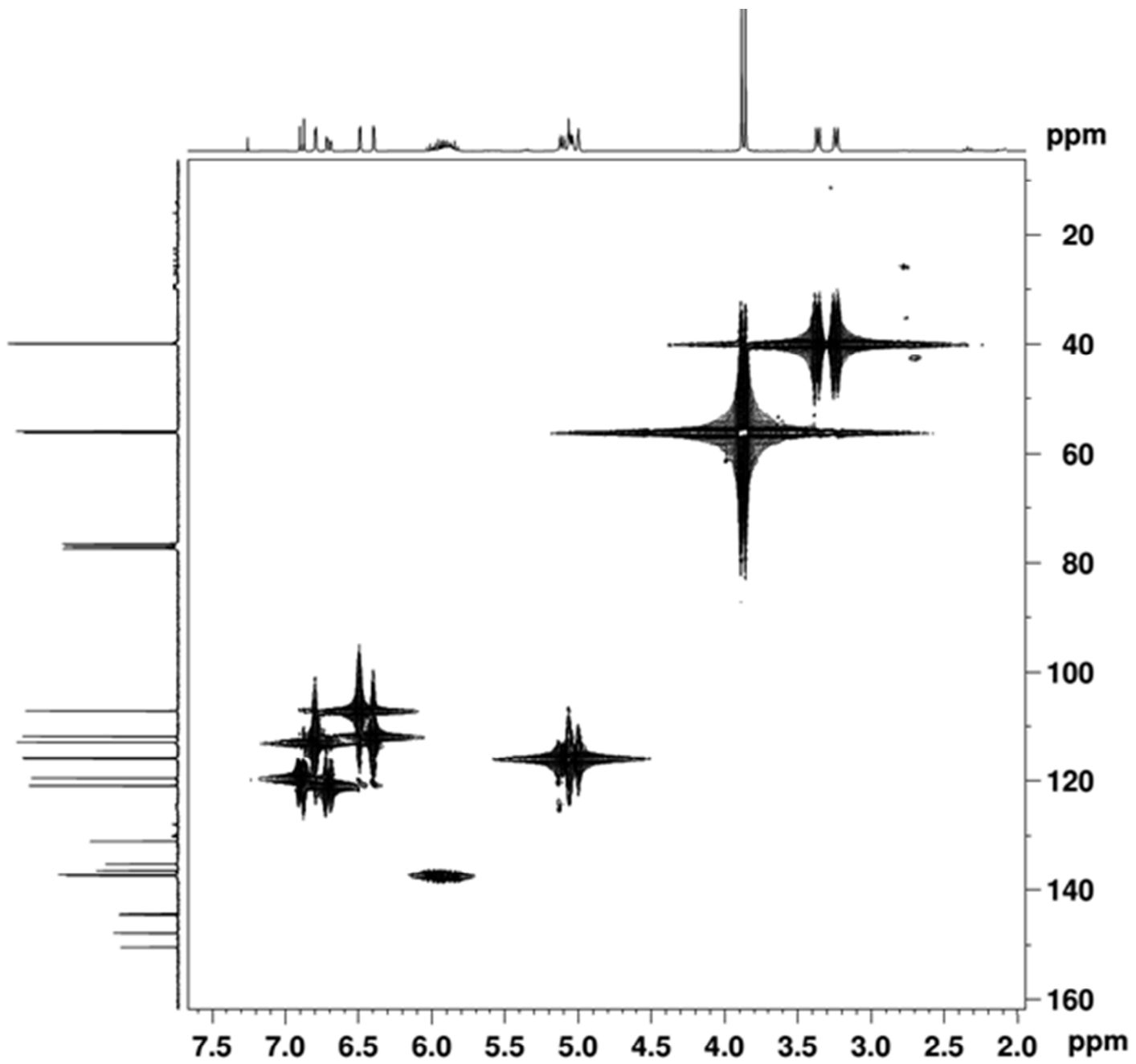




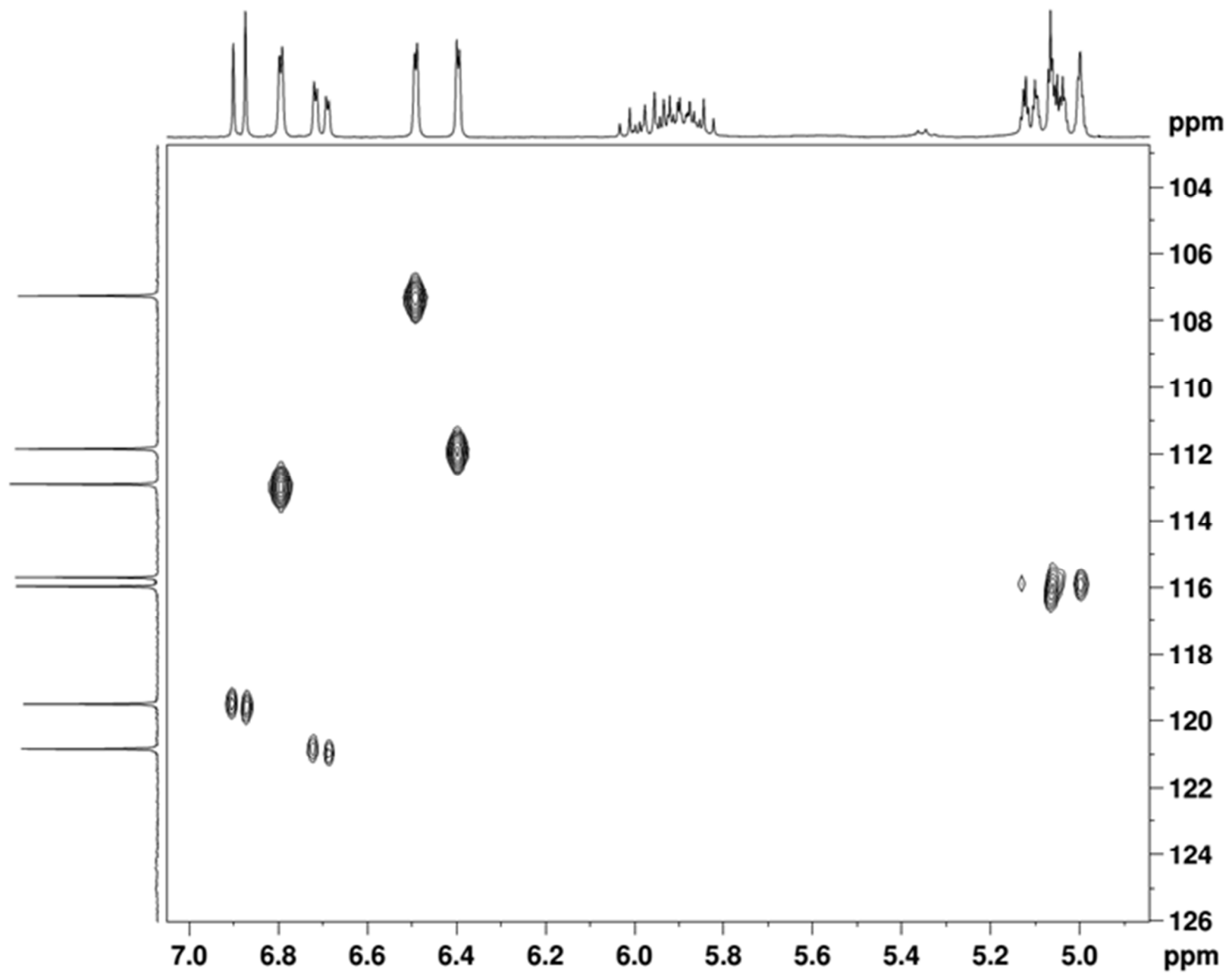


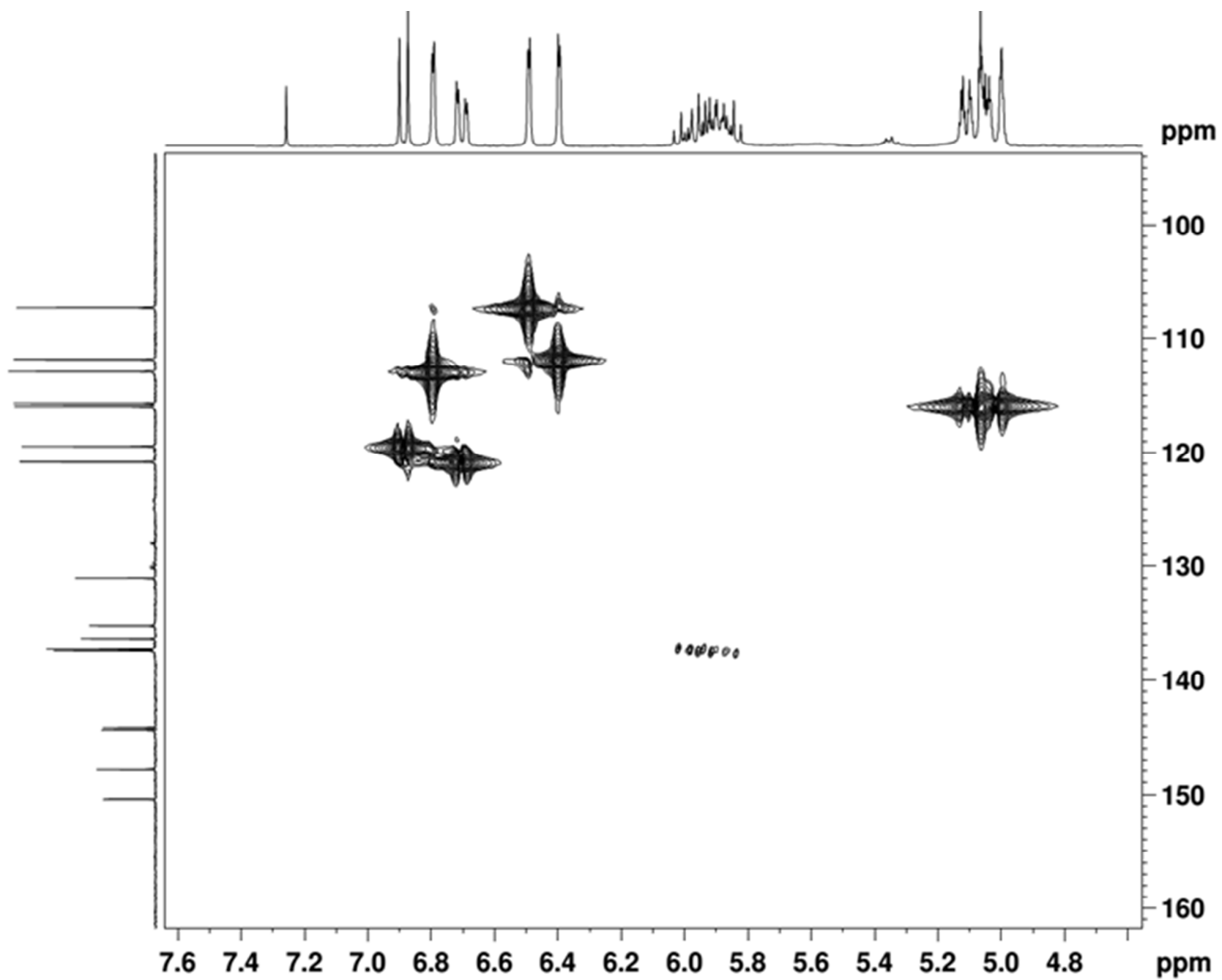
## **COMPOUND 1**

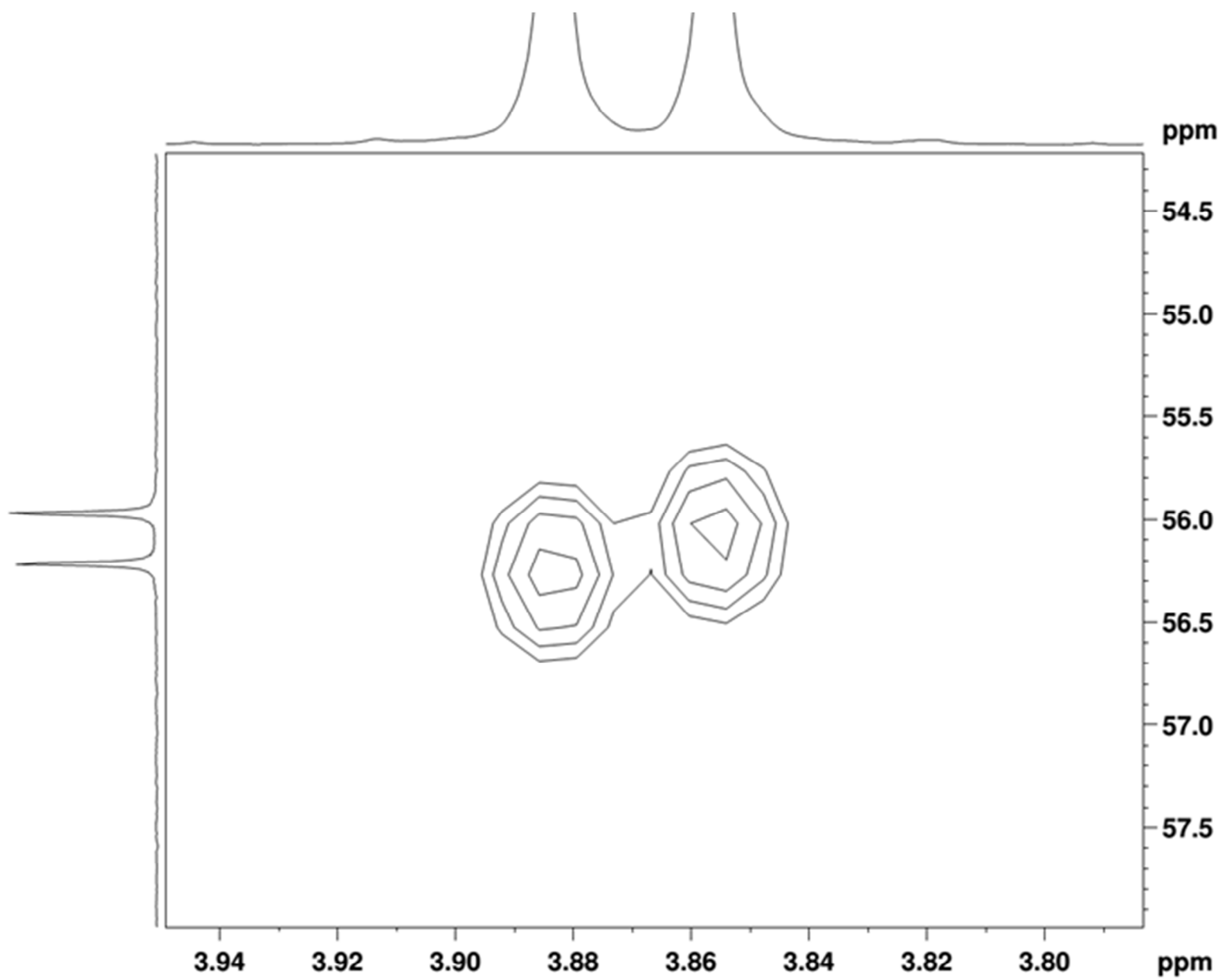
HSQC NMR spectrum ( $\delta$ , CDCl<sub>3</sub>, 300 and 75 MHz)

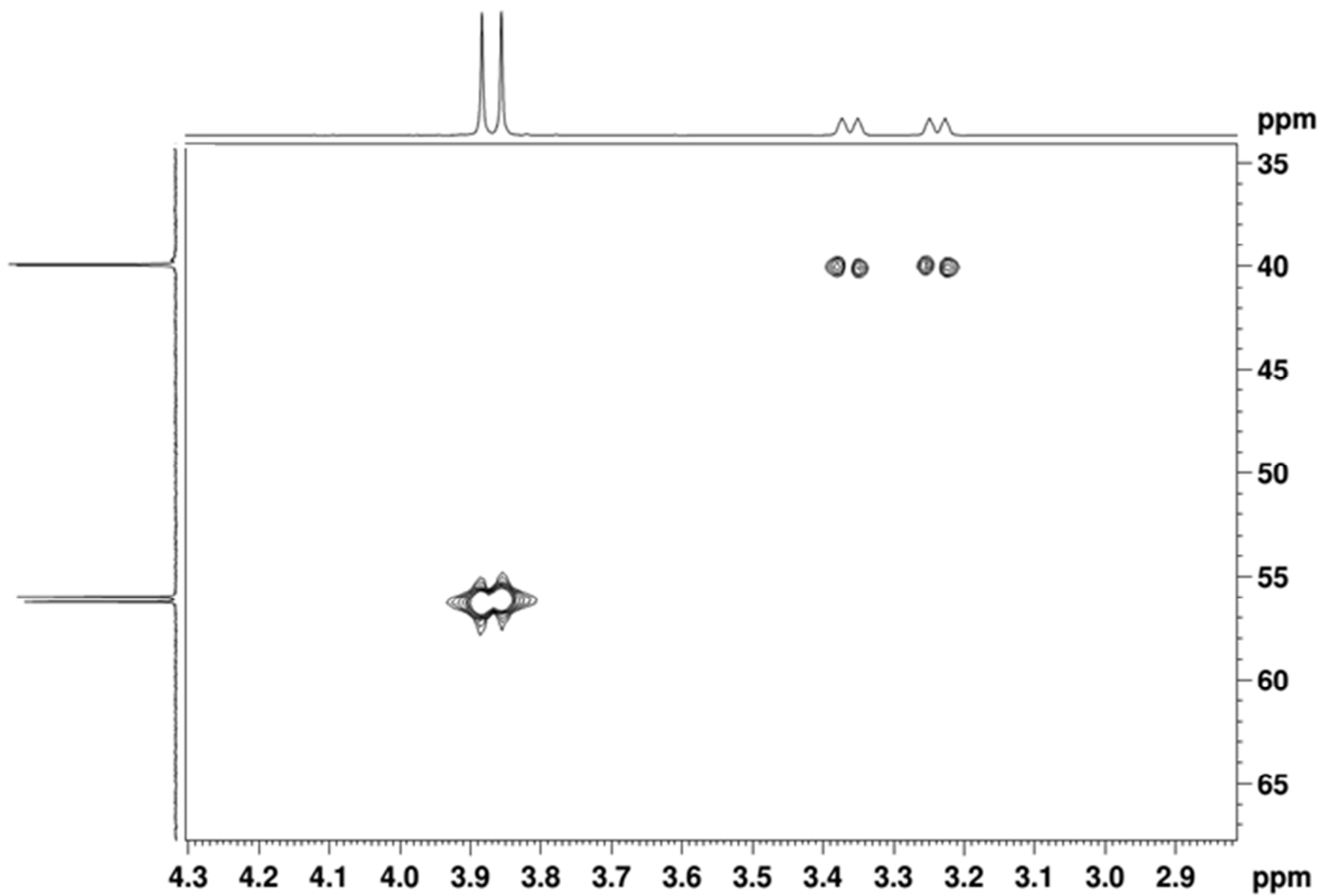


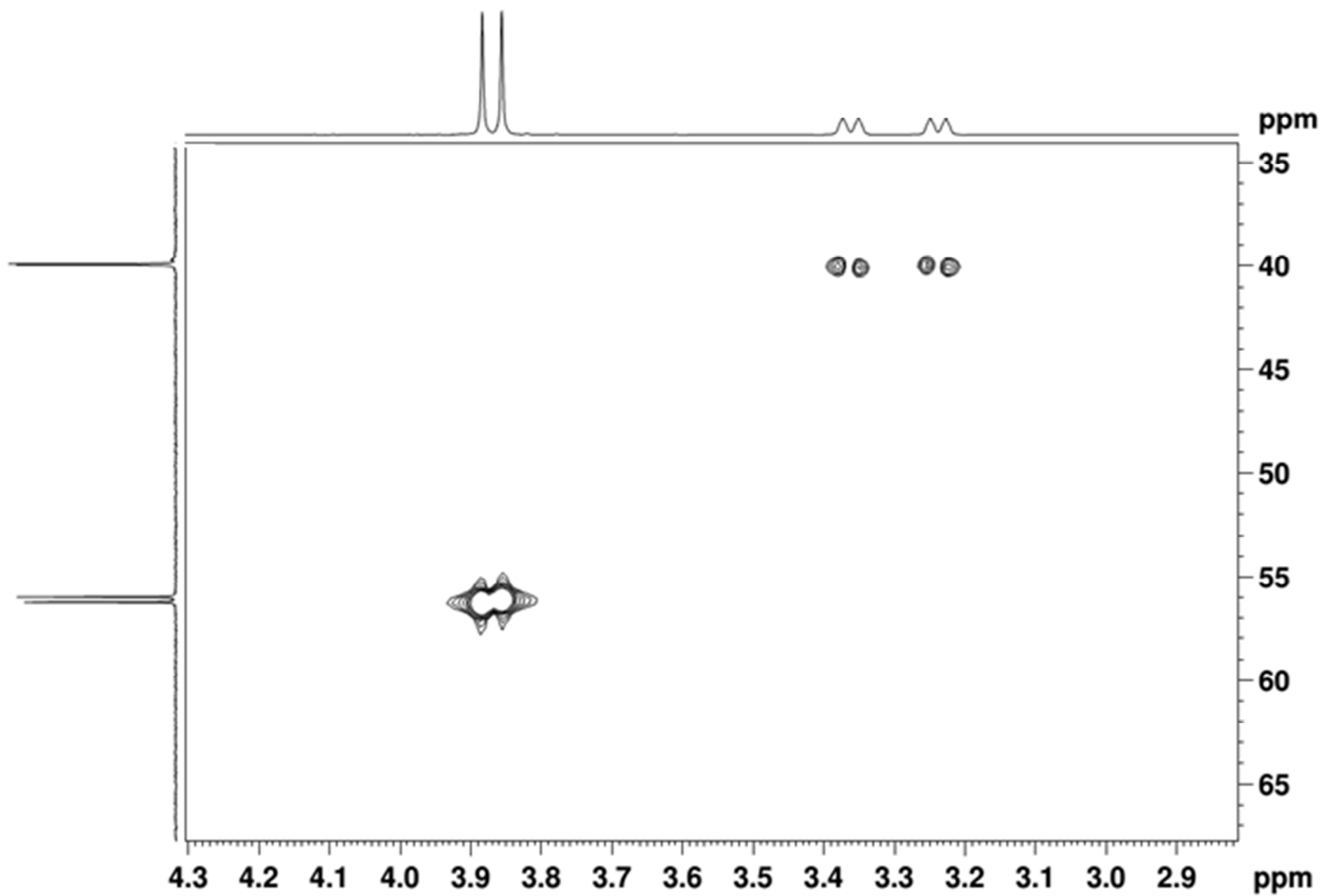






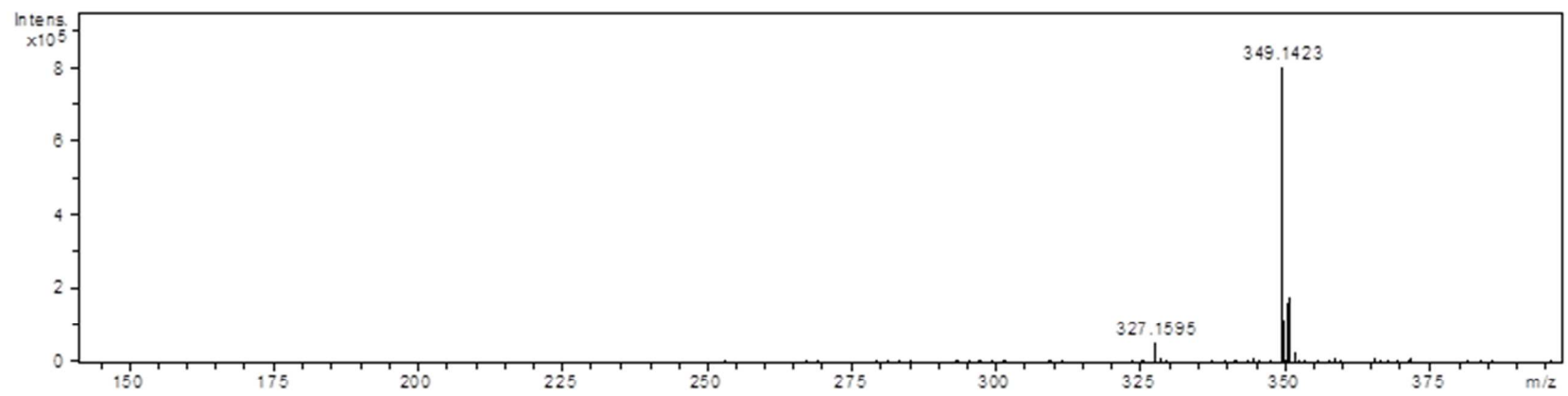






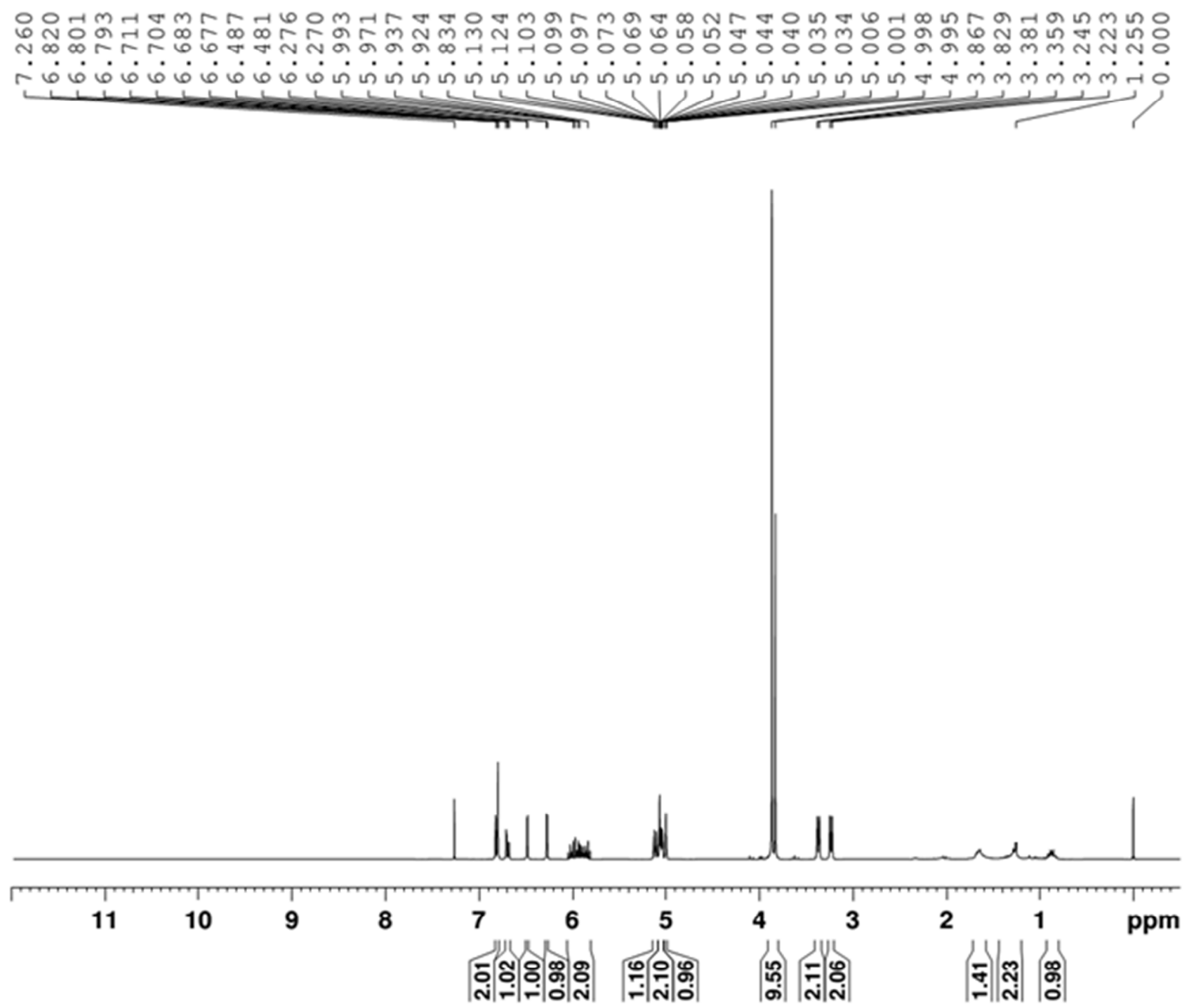
# COMPOUND 1

## MASS SPECTRUM

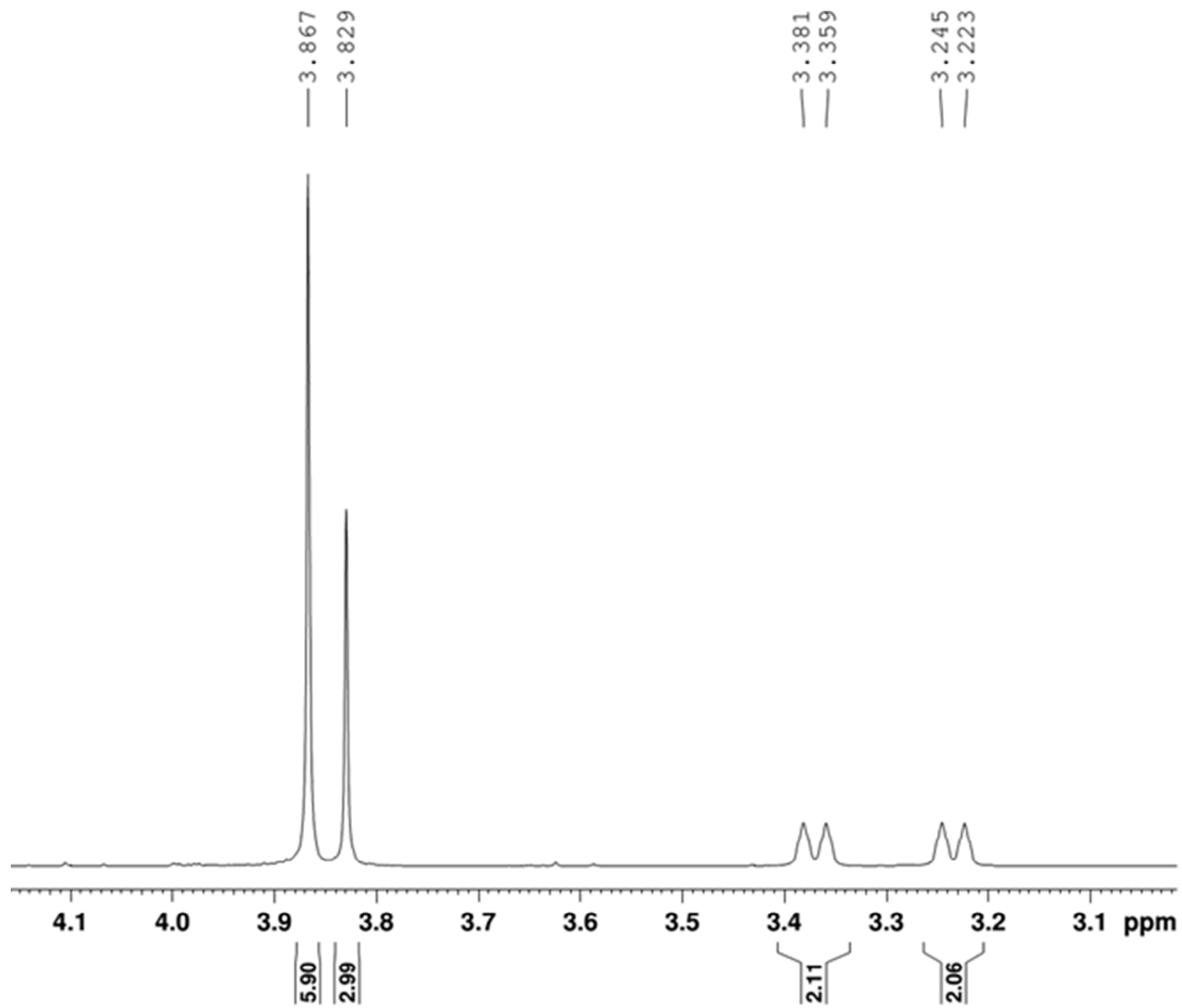


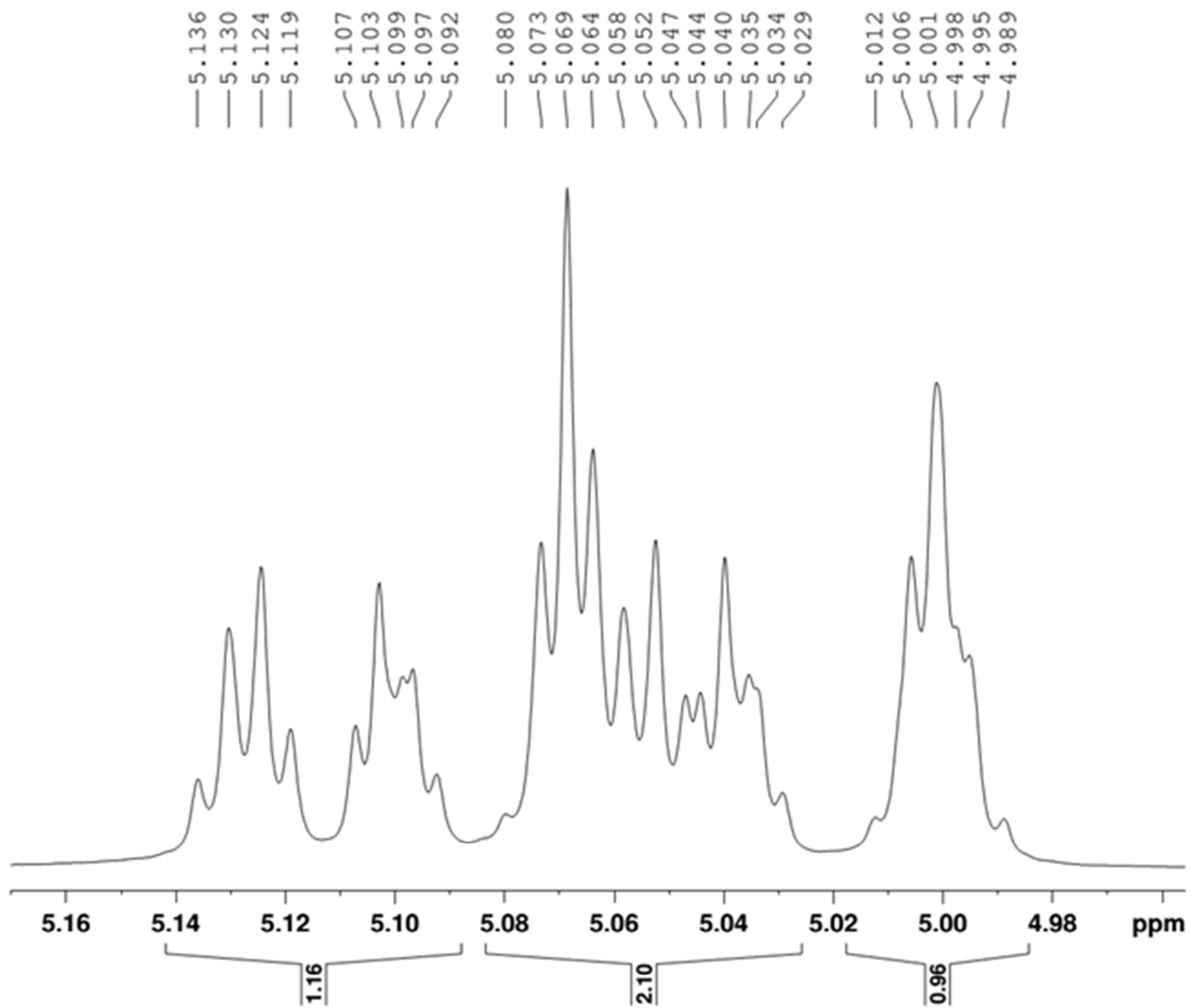
## COMPOUND 2

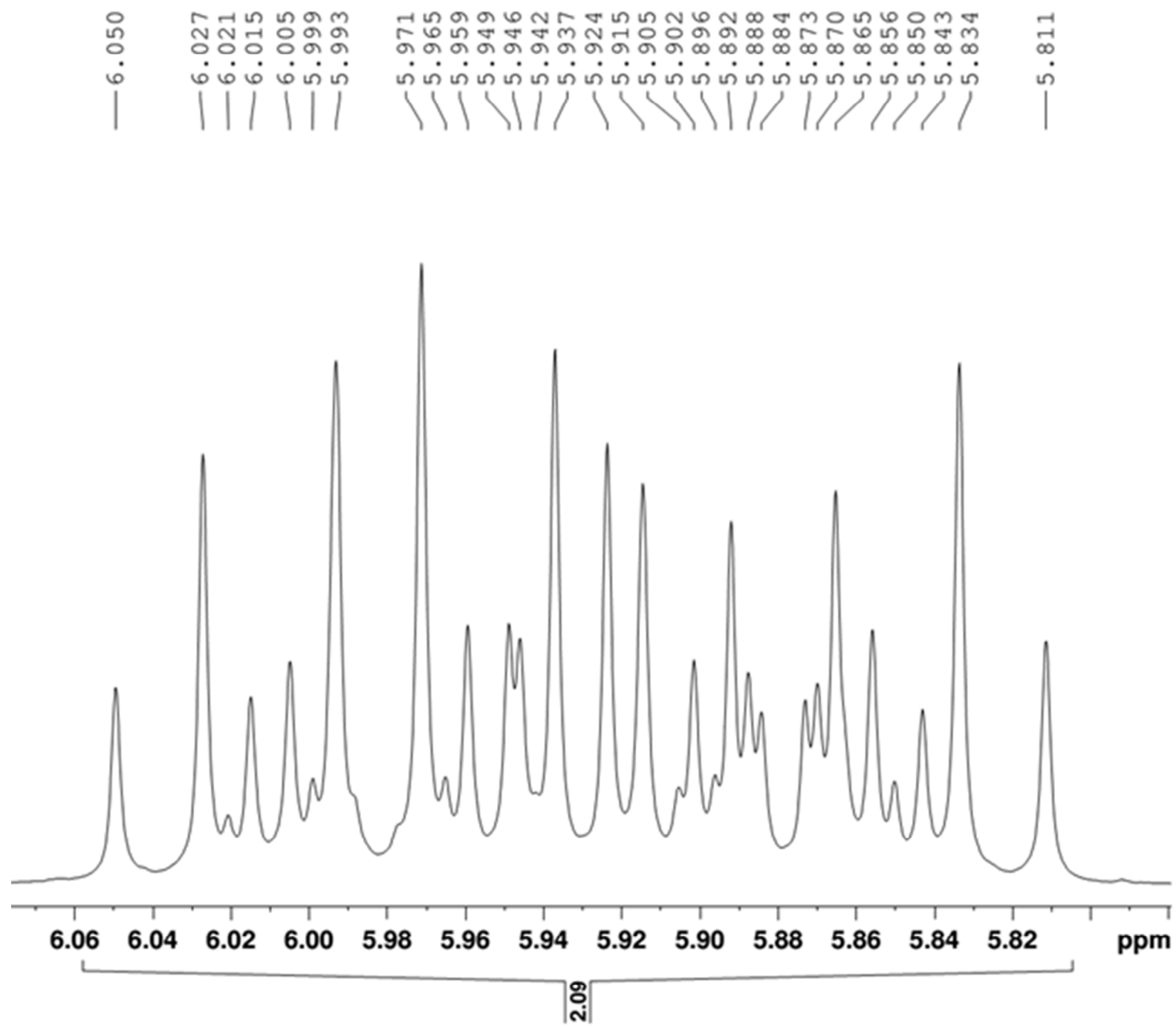
$^1\text{H}$  NMR spectrum ( $\delta$ ,  $\text{CDCl}_3$ , 300 MHz)

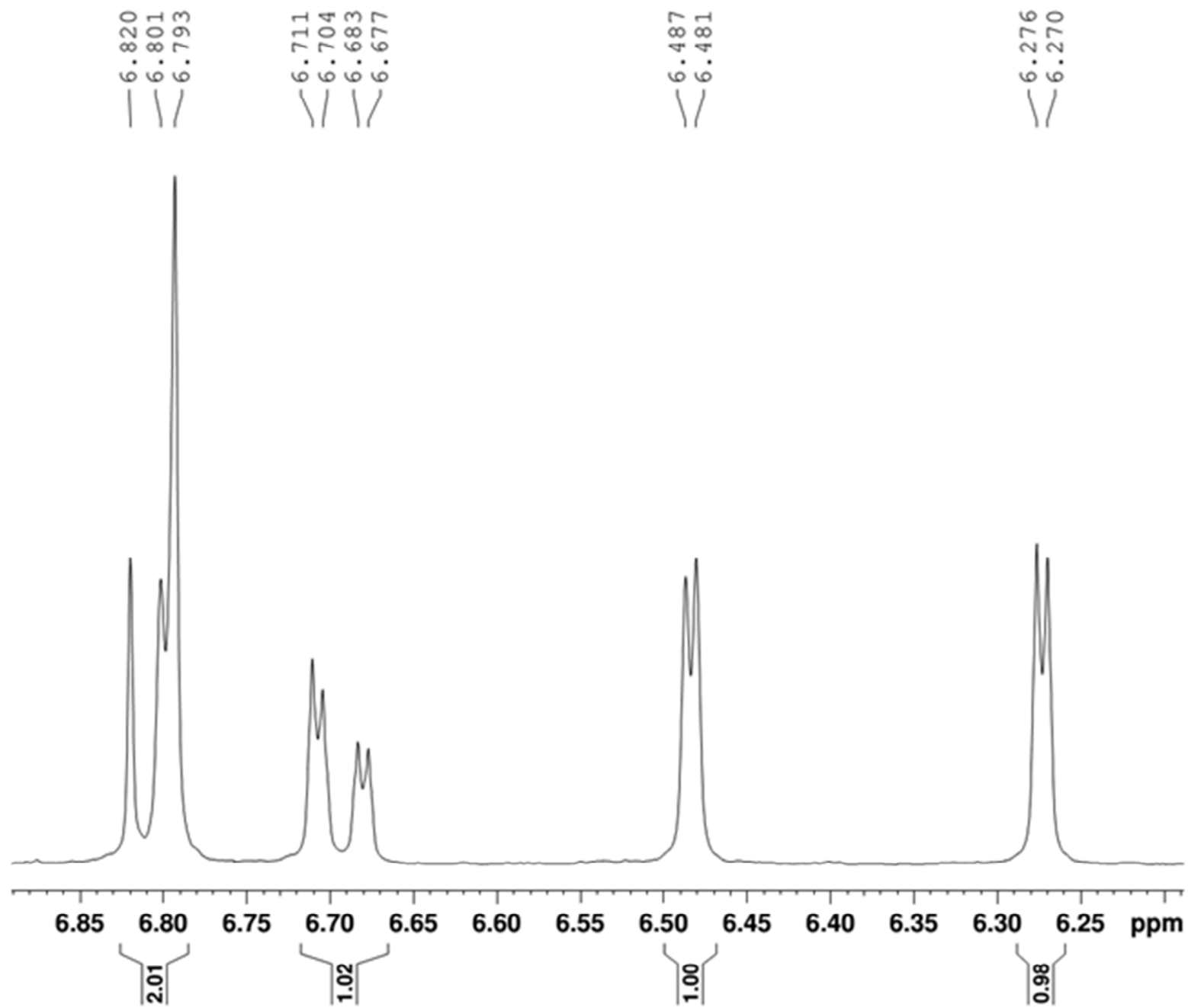






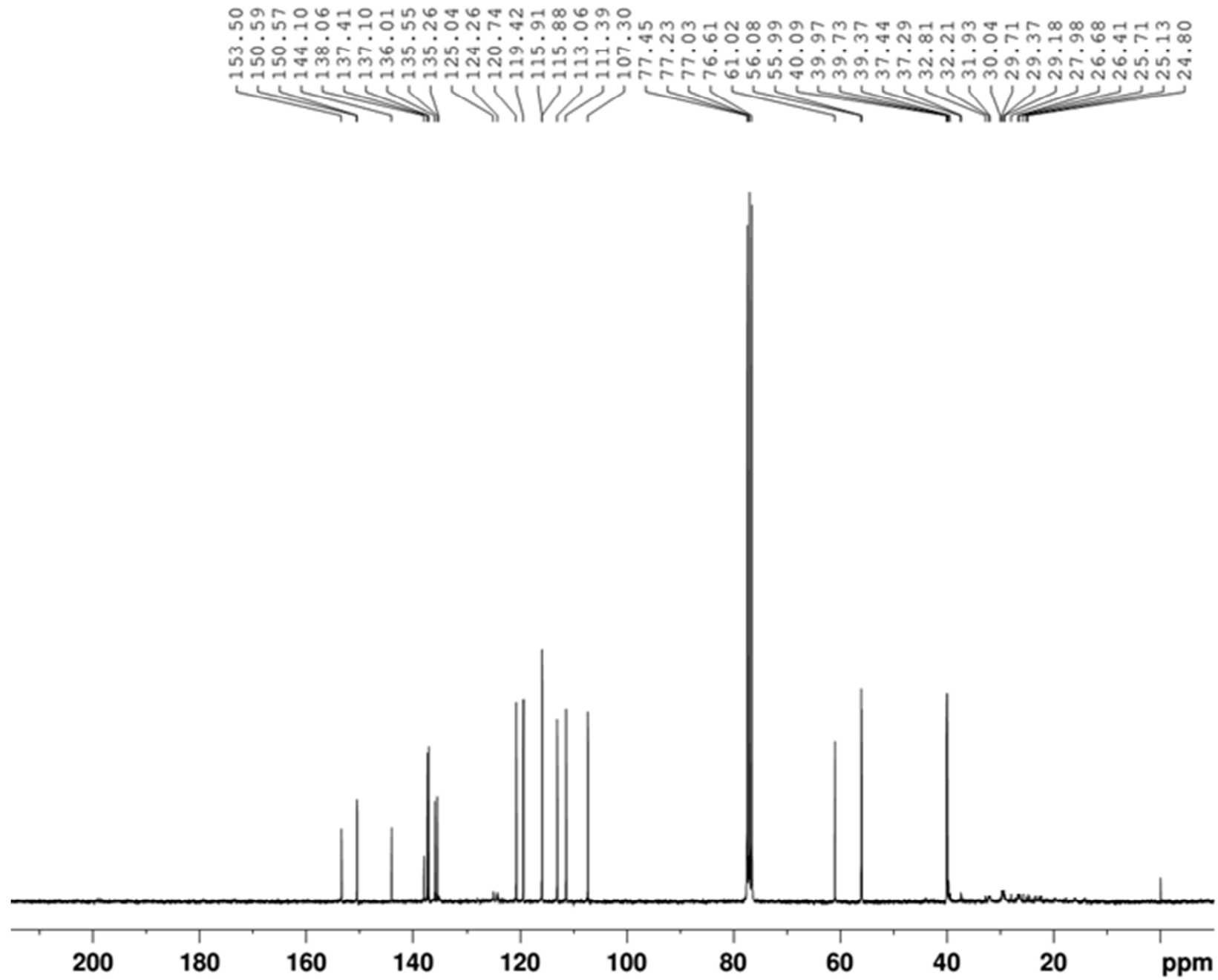


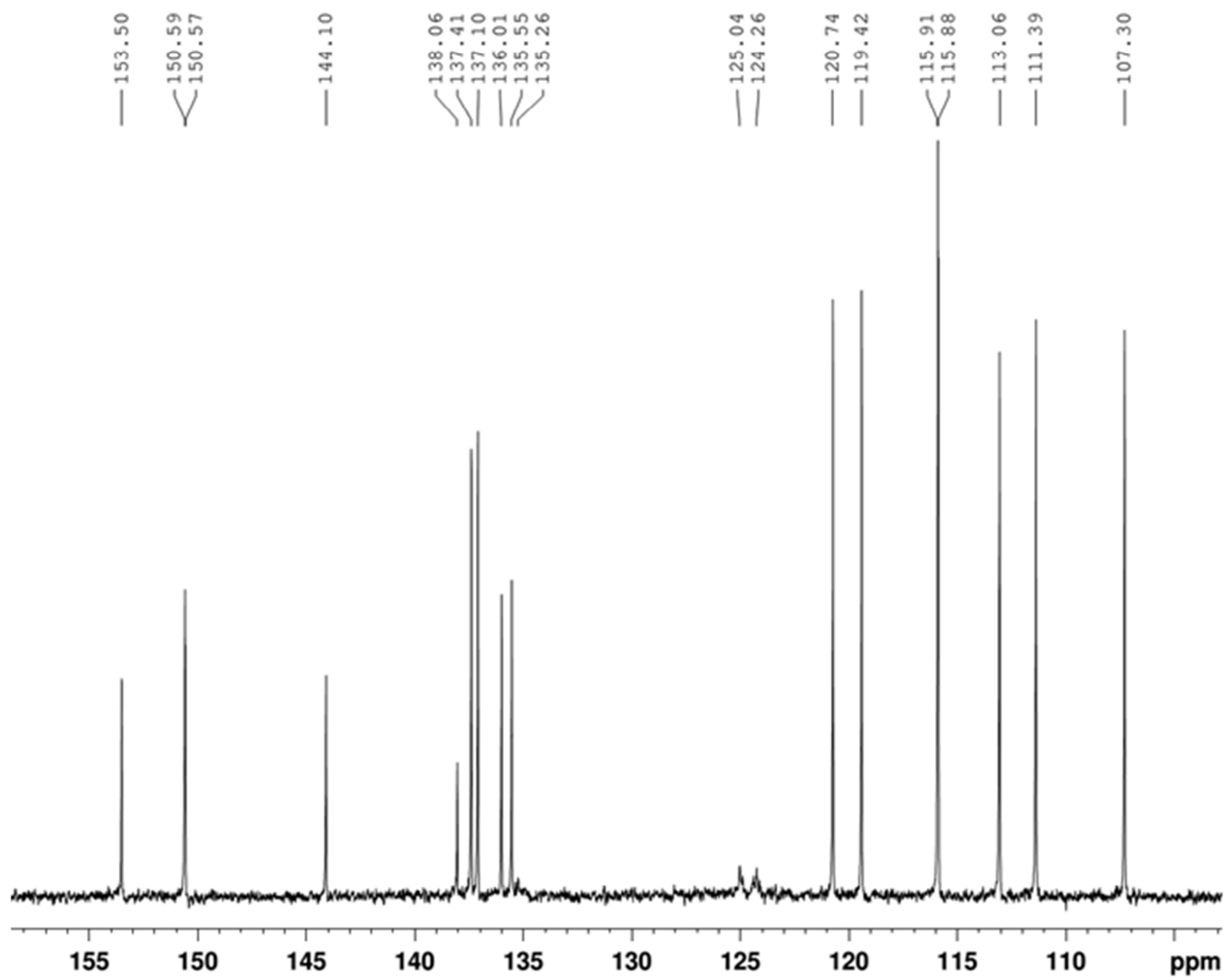




## COMPOUND 2

$^{13}\text{C}$  NMR spectrum ( $\delta$ ,  $\text{CDCl}_3$ , 75 MHz)

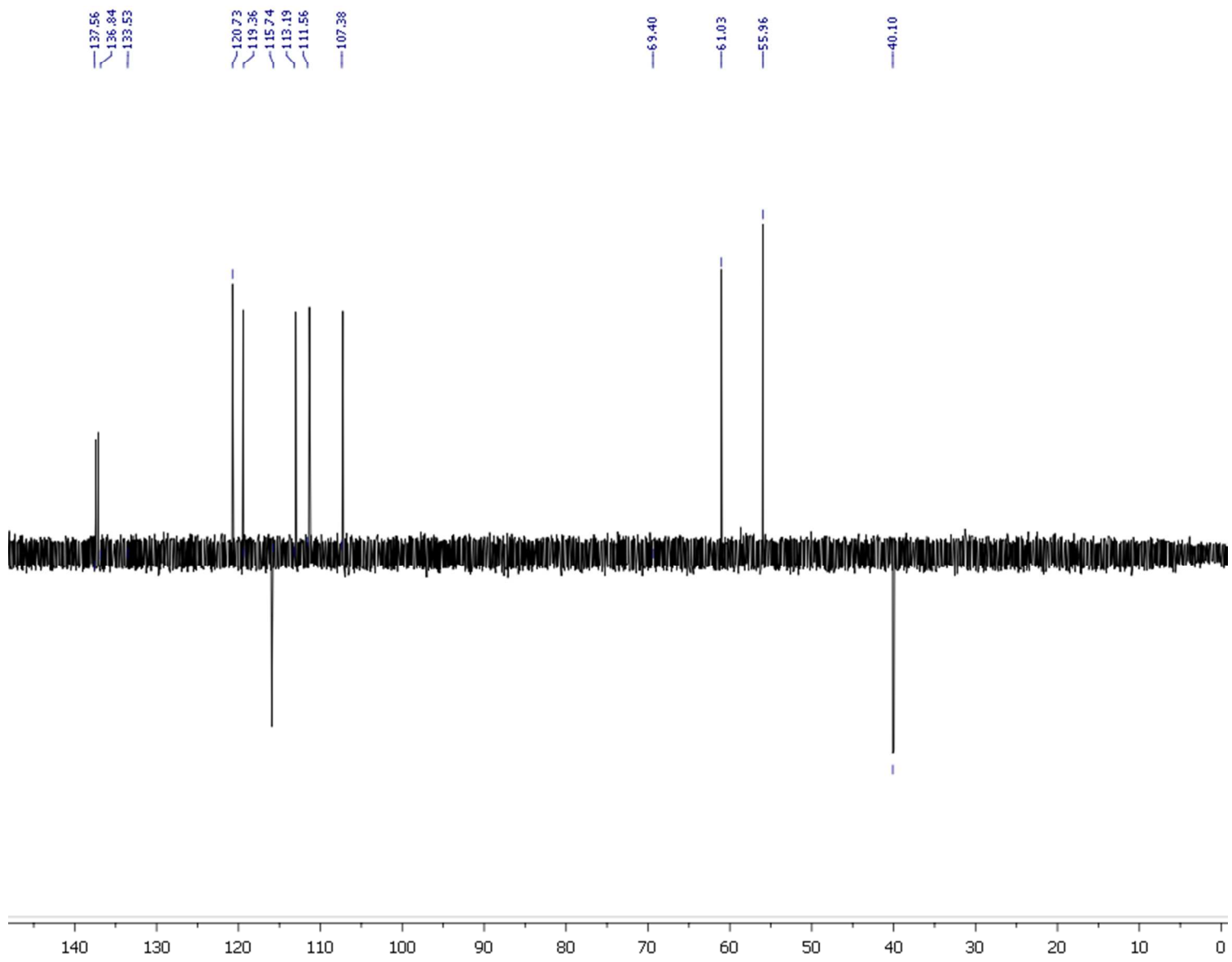




## COMPOUND 2

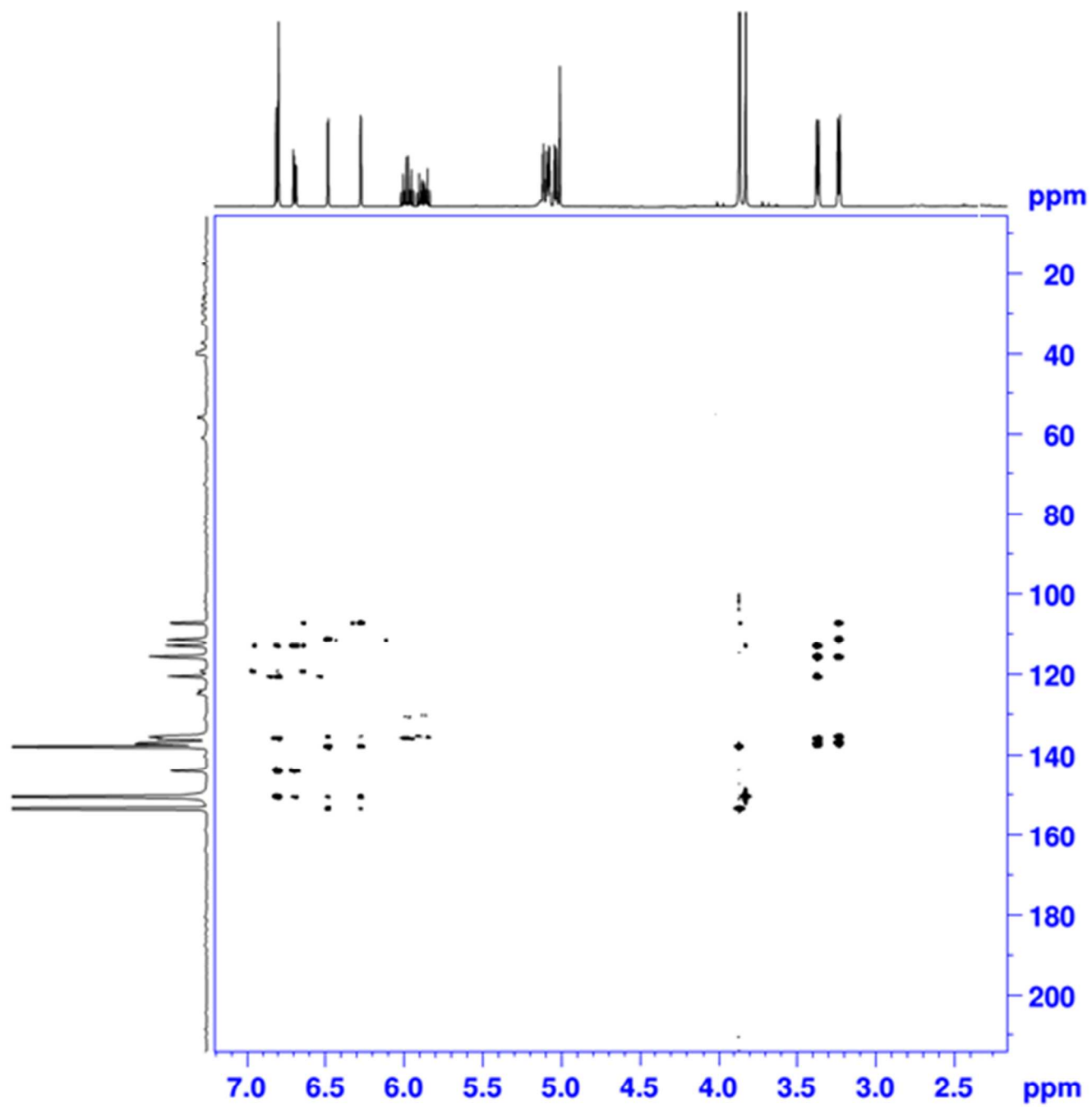
DEPT 135° NMR spectrum ( $\delta$ , CDCl<sub>3</sub>, 75 MHz)

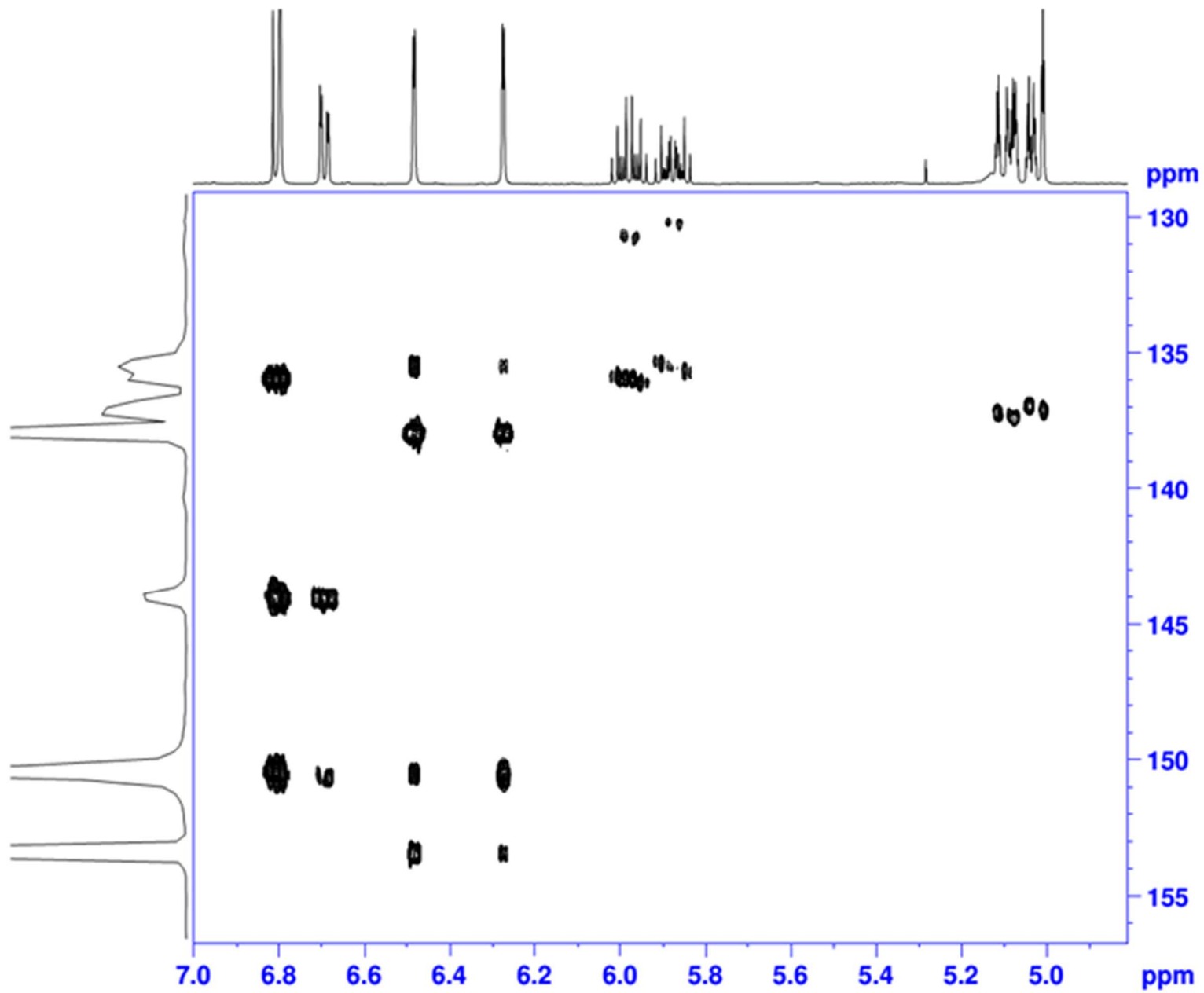


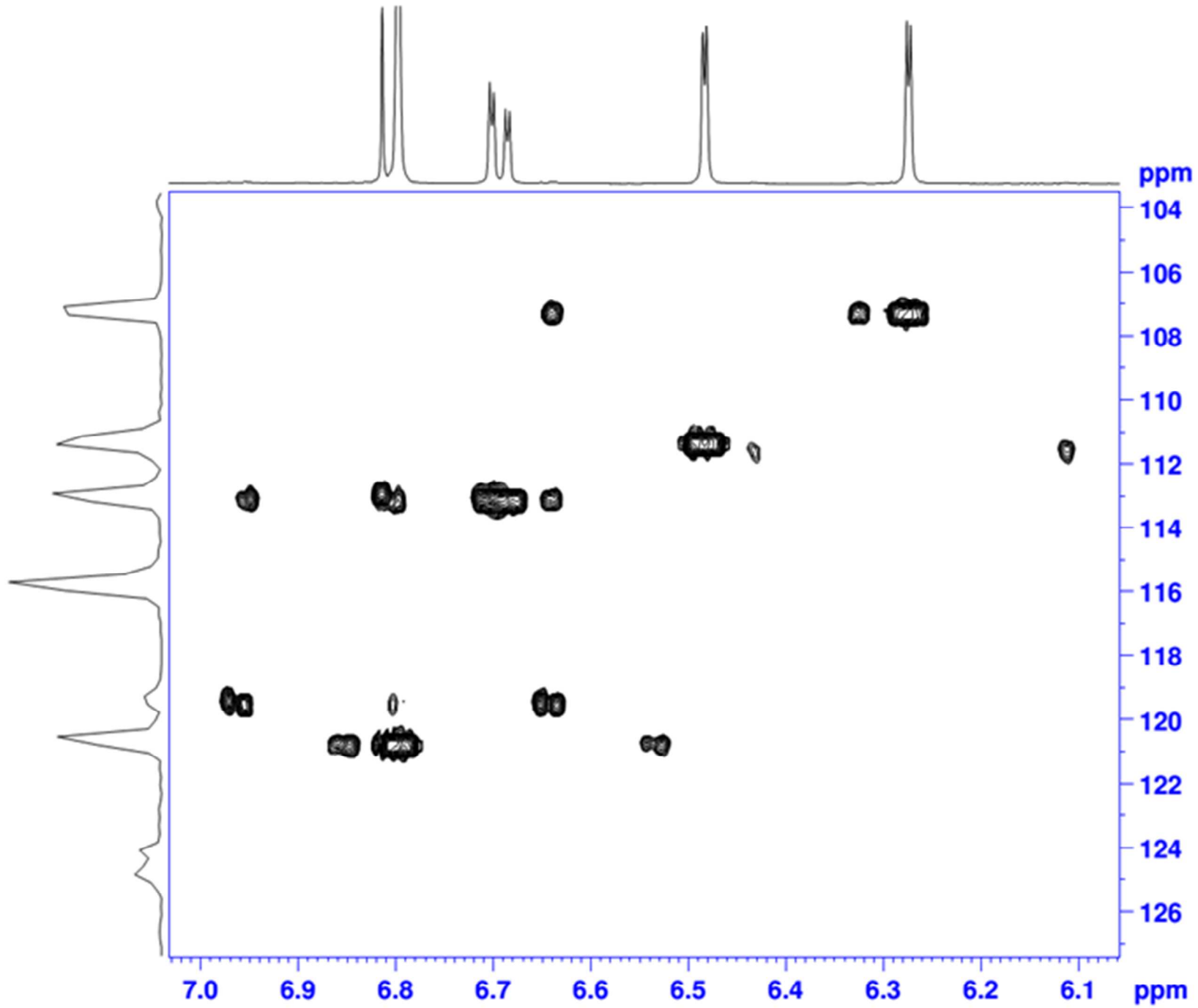


## COMPOUND 2

HMBC NMR spectrum ( $\delta$ , CDCl<sub>3</sub>, 75 MHz)

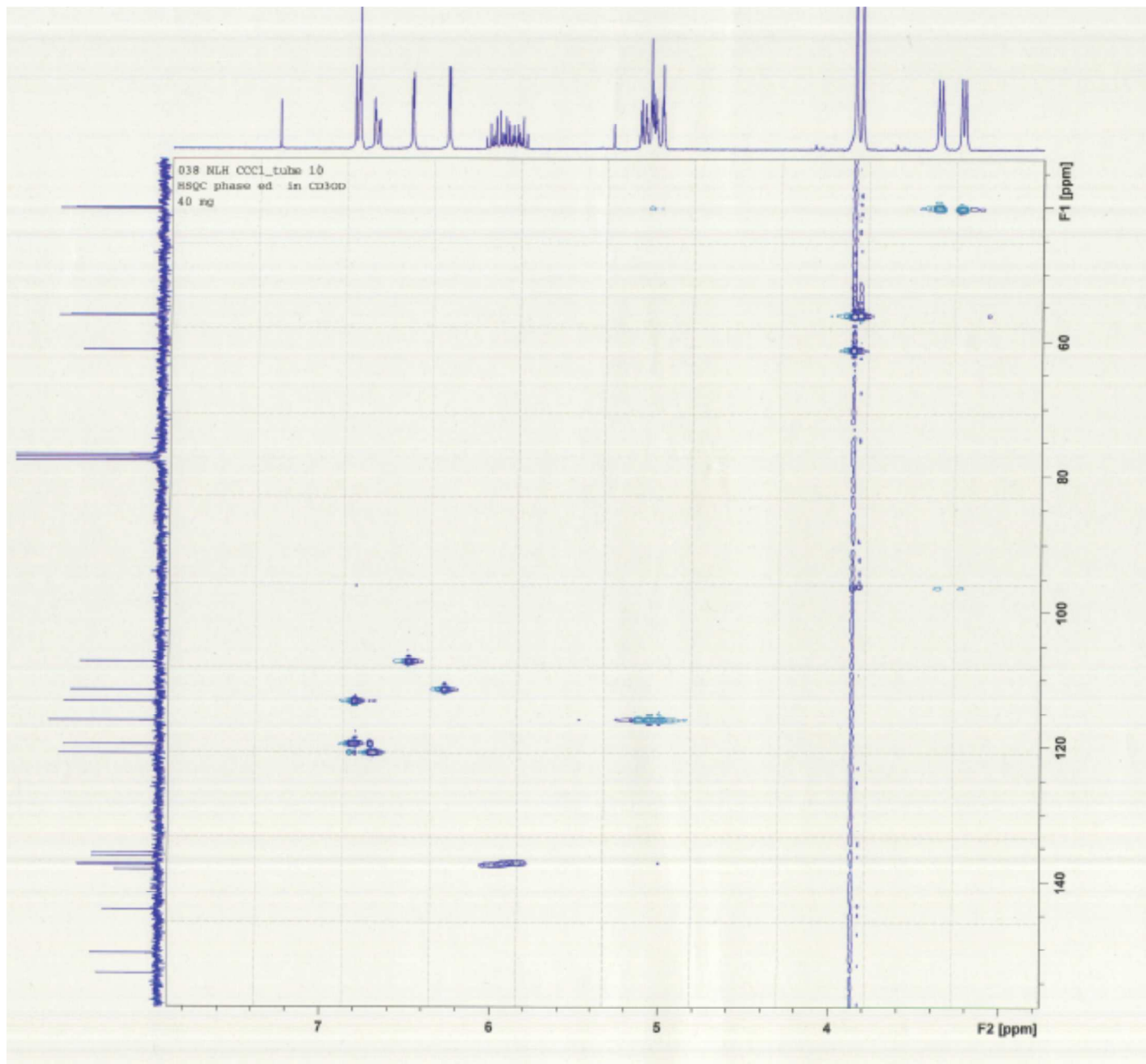


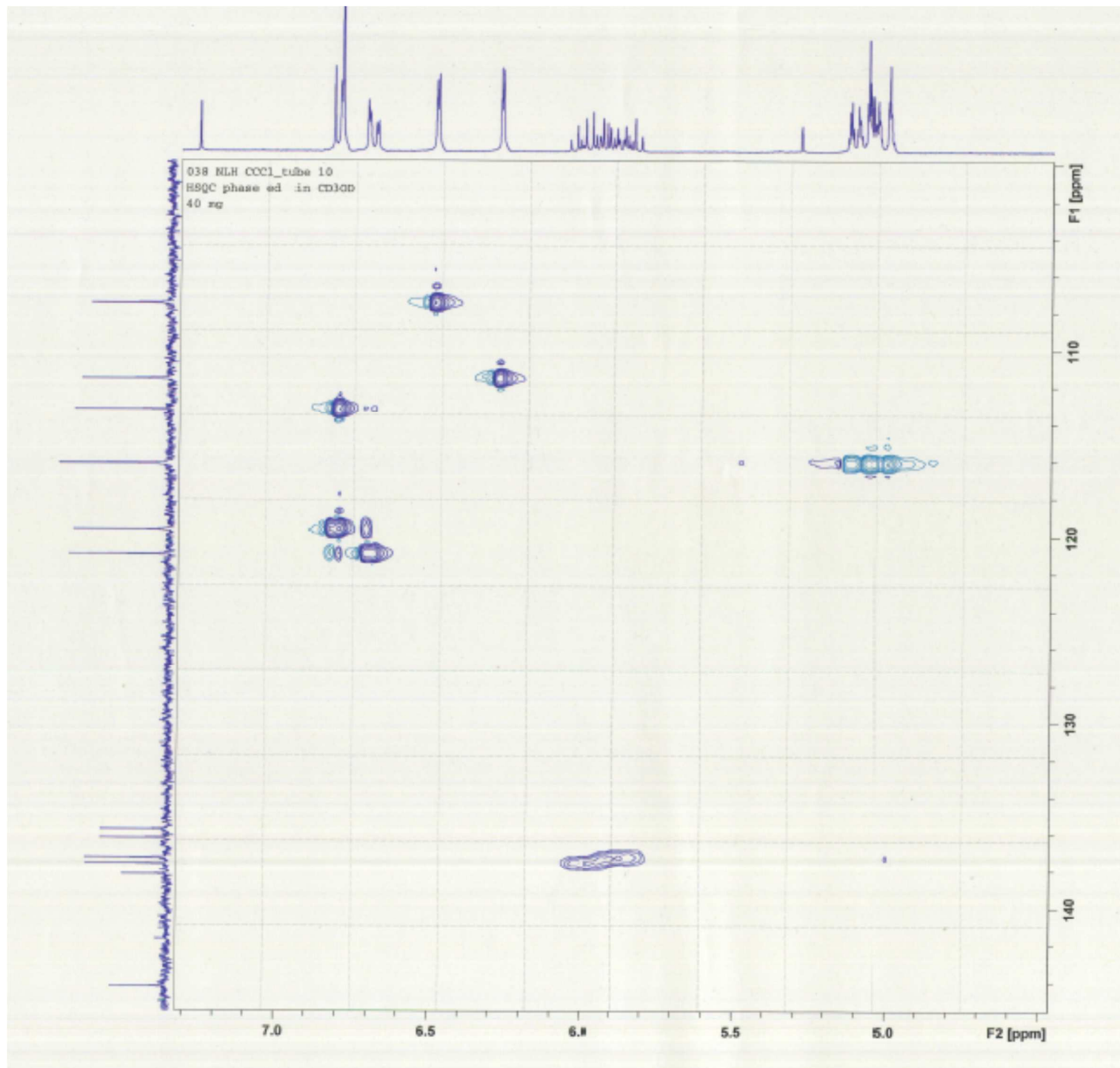




## COMPOUND 2

HSQC NMR spectrum ( $\delta$ , CDCl<sub>3</sub>, 300 and 75 MHz)

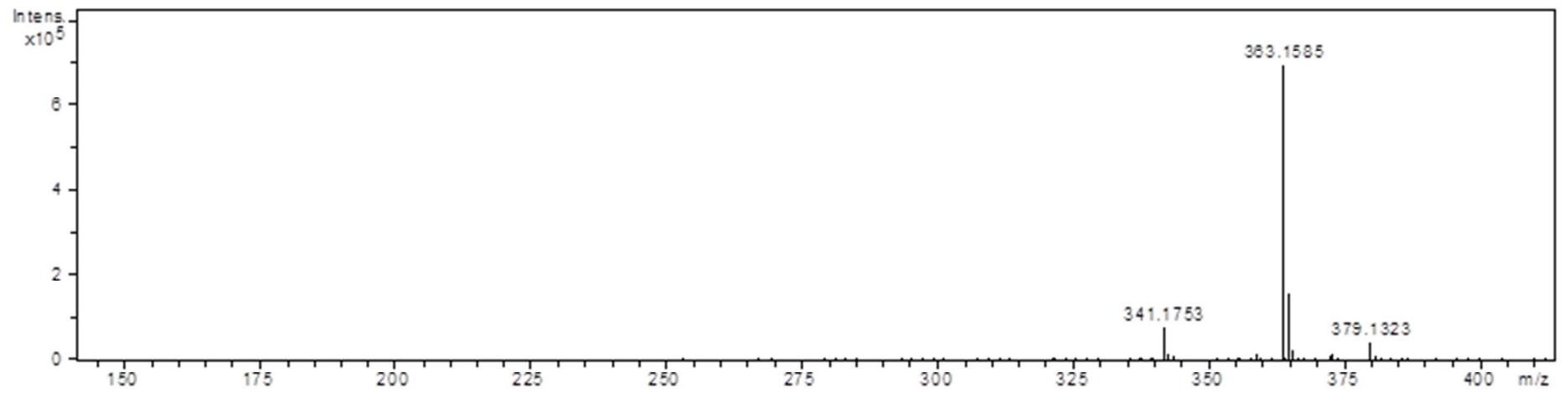






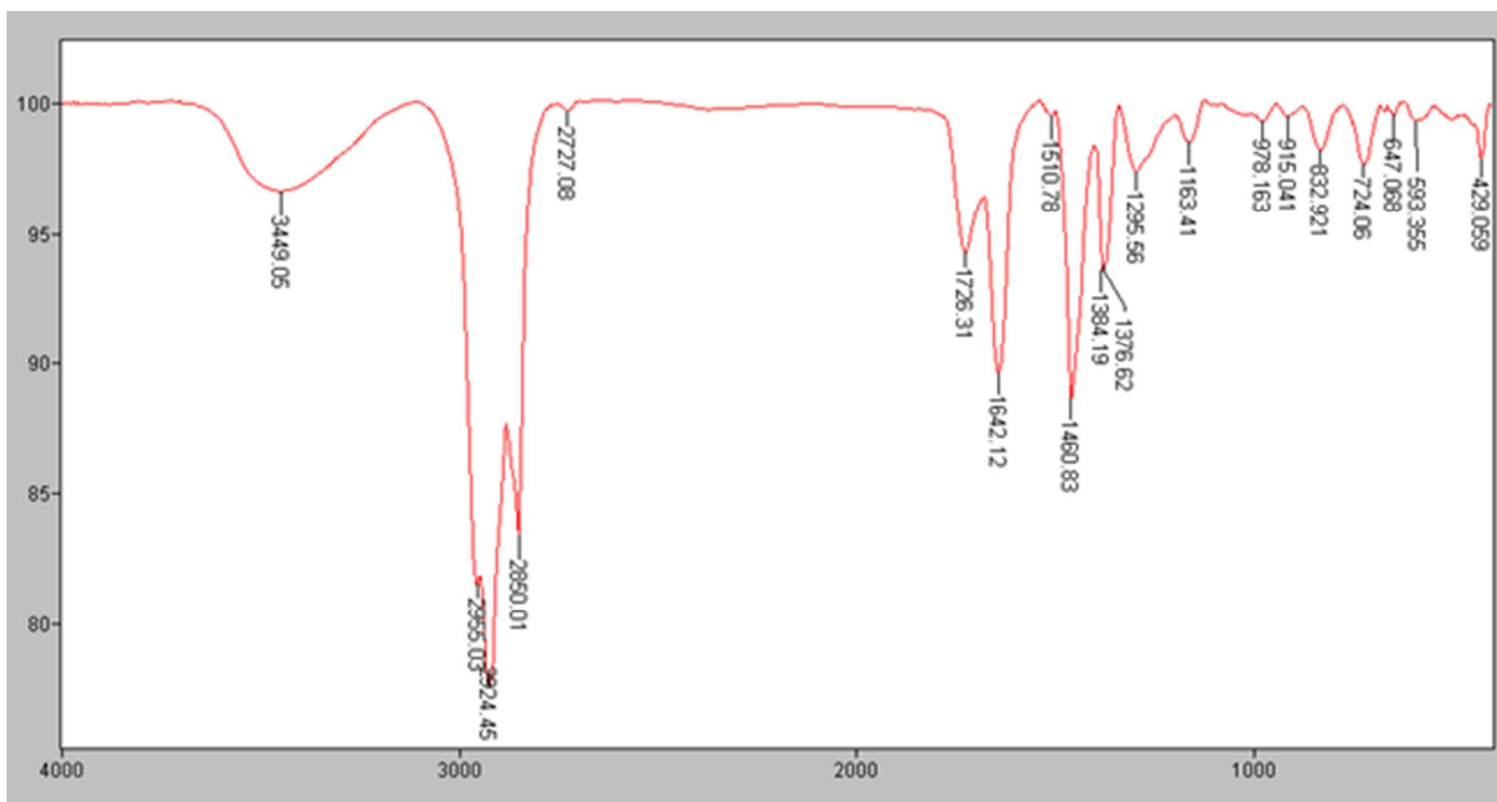
# COMPOUND 2

## MASS SPECTRUM



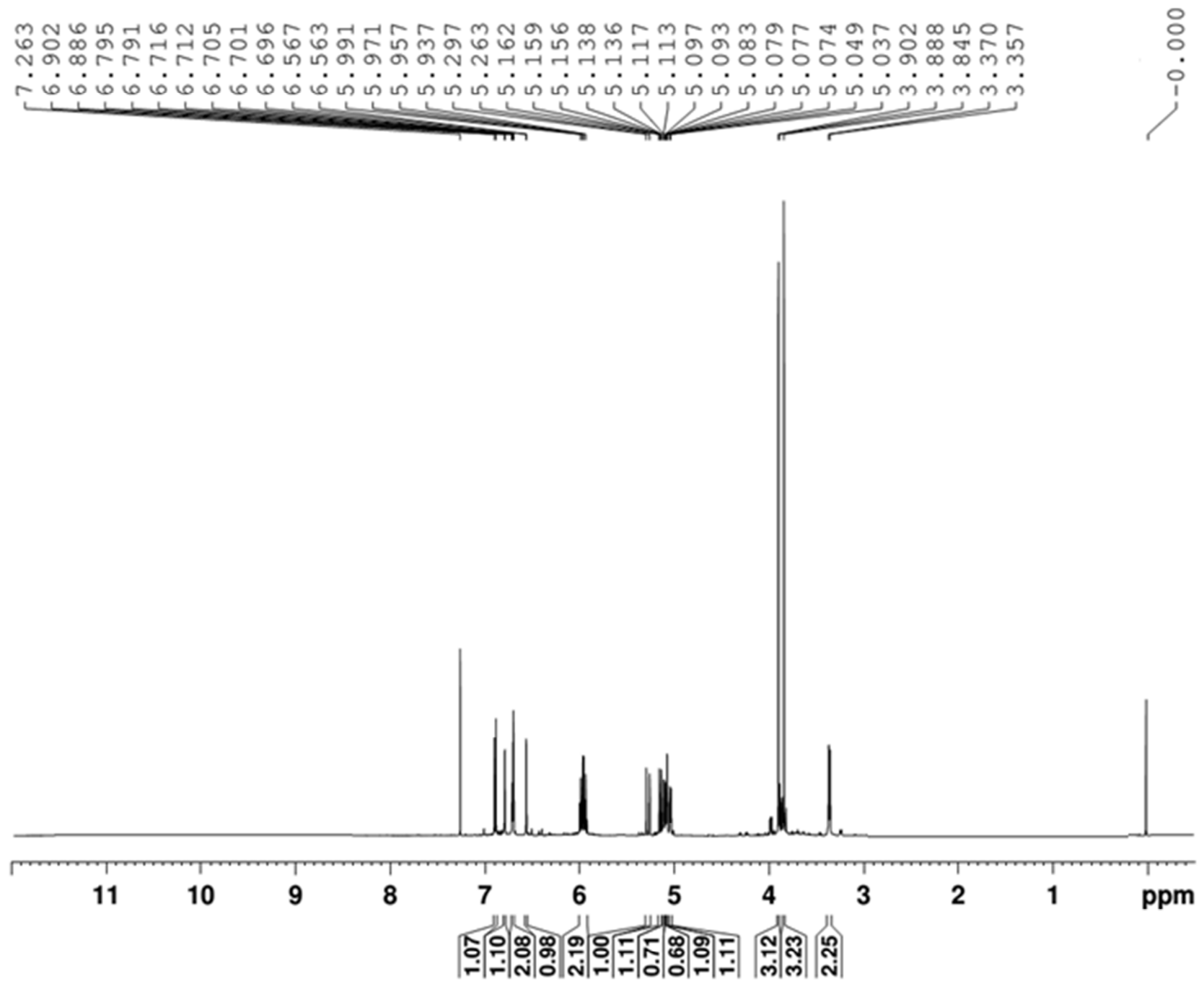
# COMPOUND 2

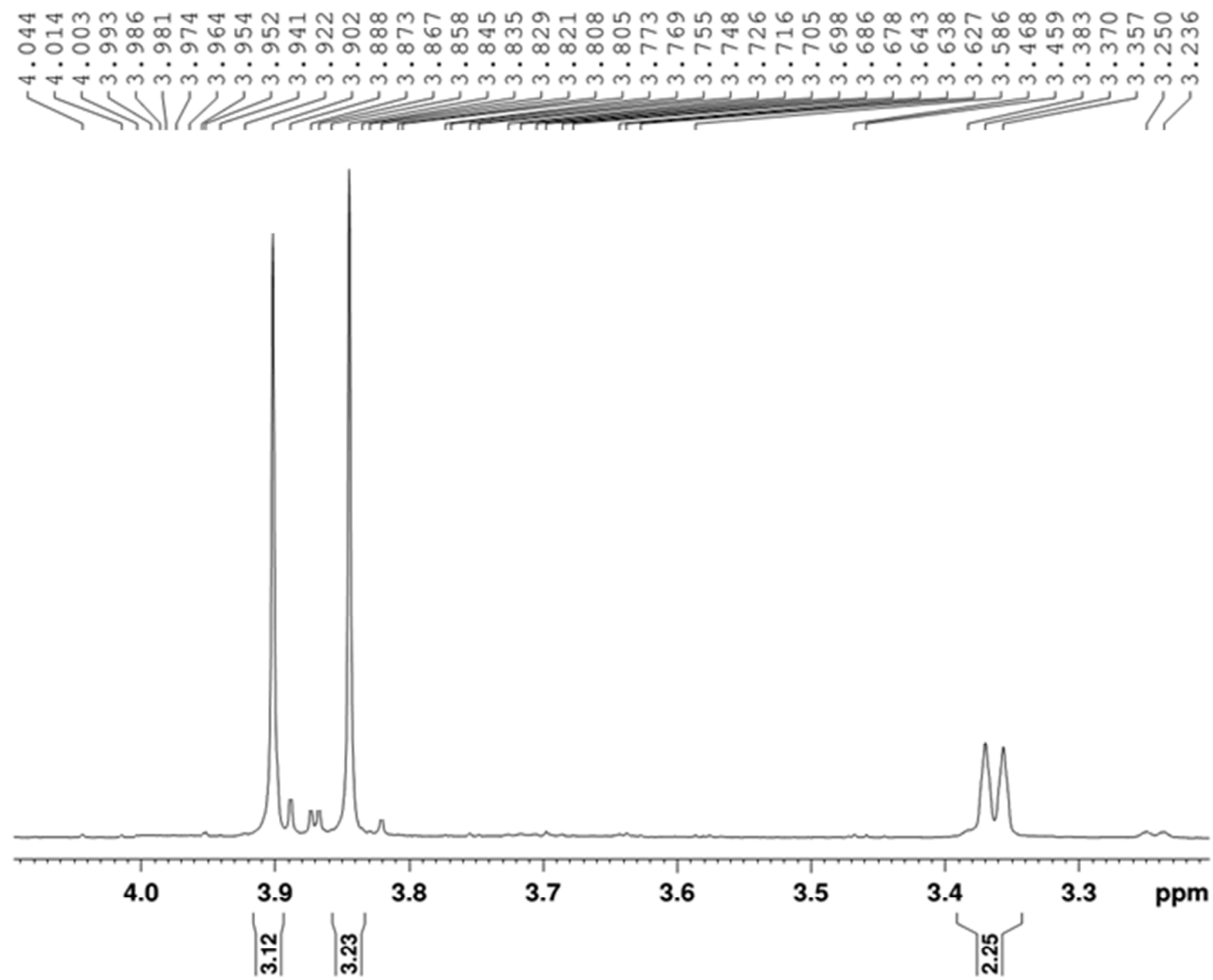
## INFRARED SPECTRUM

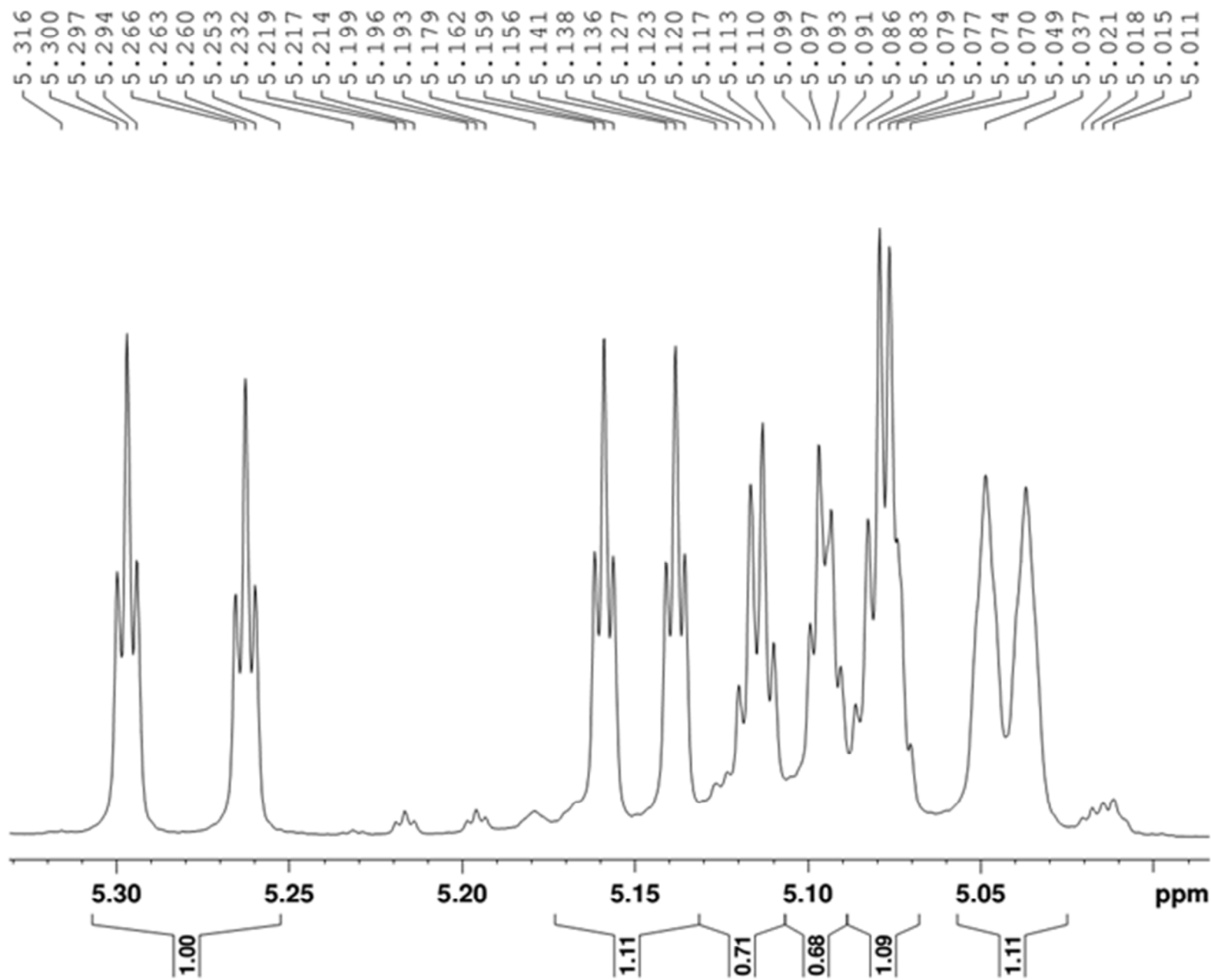


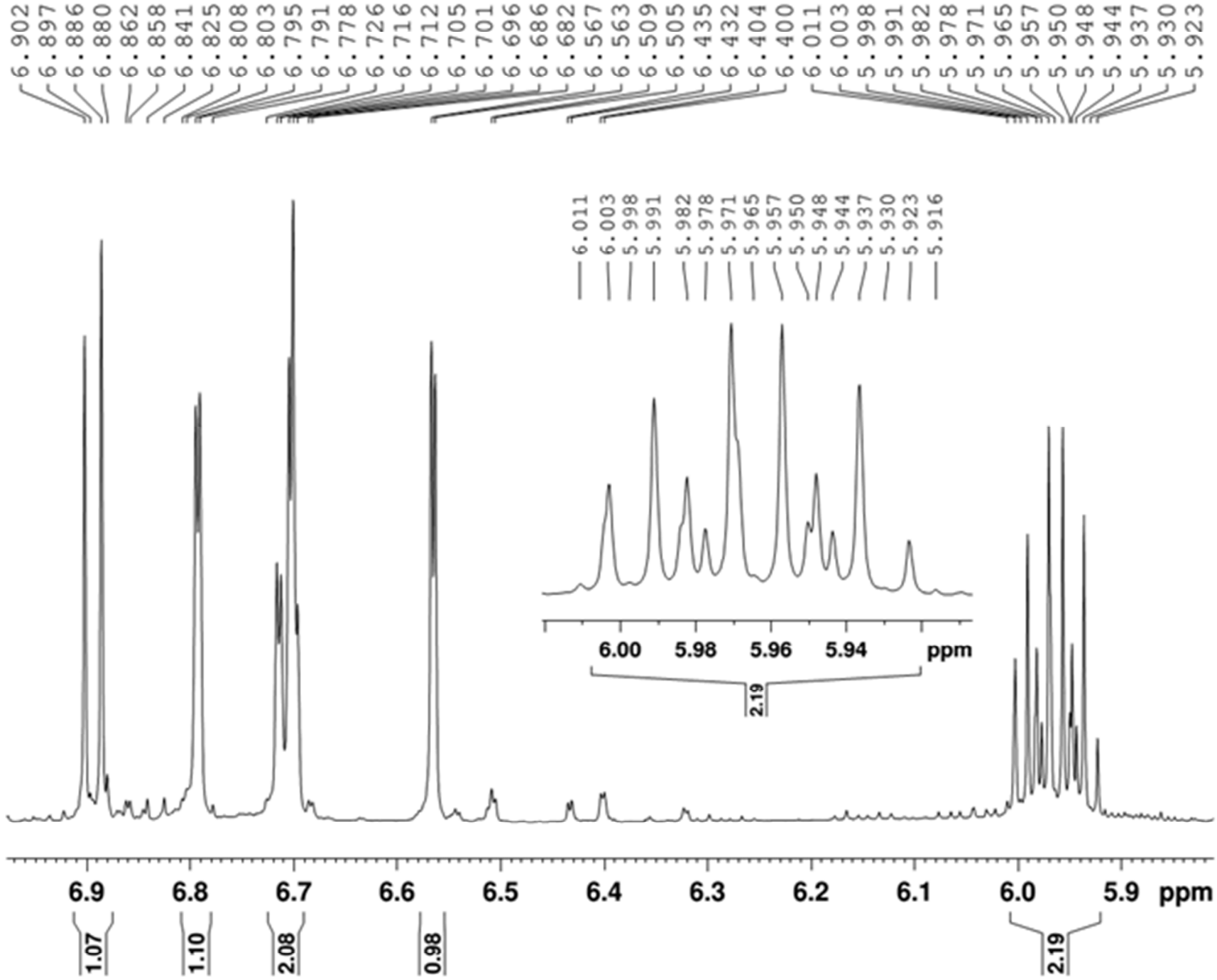
## COMPOUND 3

$^1\text{H}$  NMR spectrum ( $\delta$ ,  $\text{CDCl}_3$ , 300 MHz)





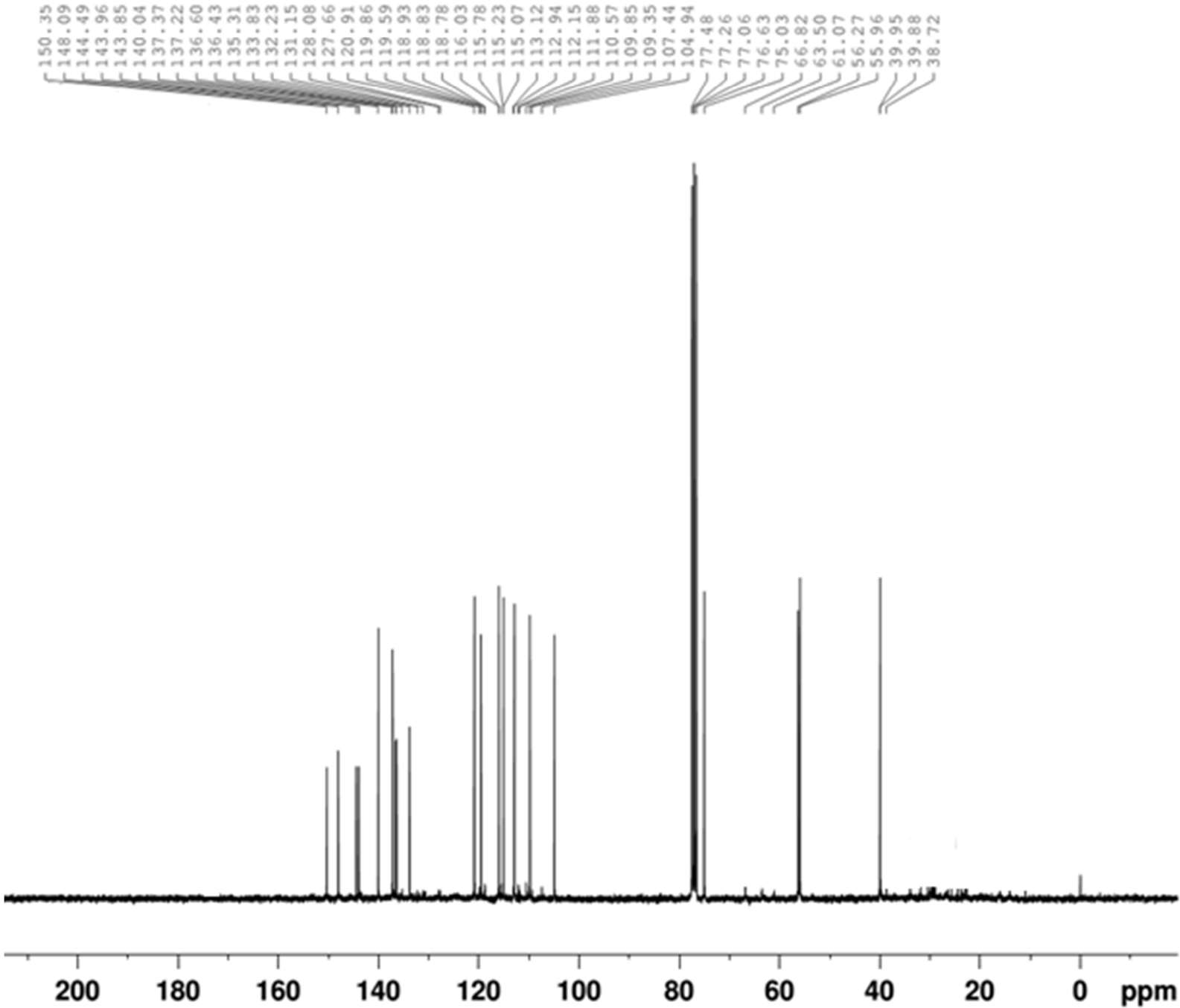


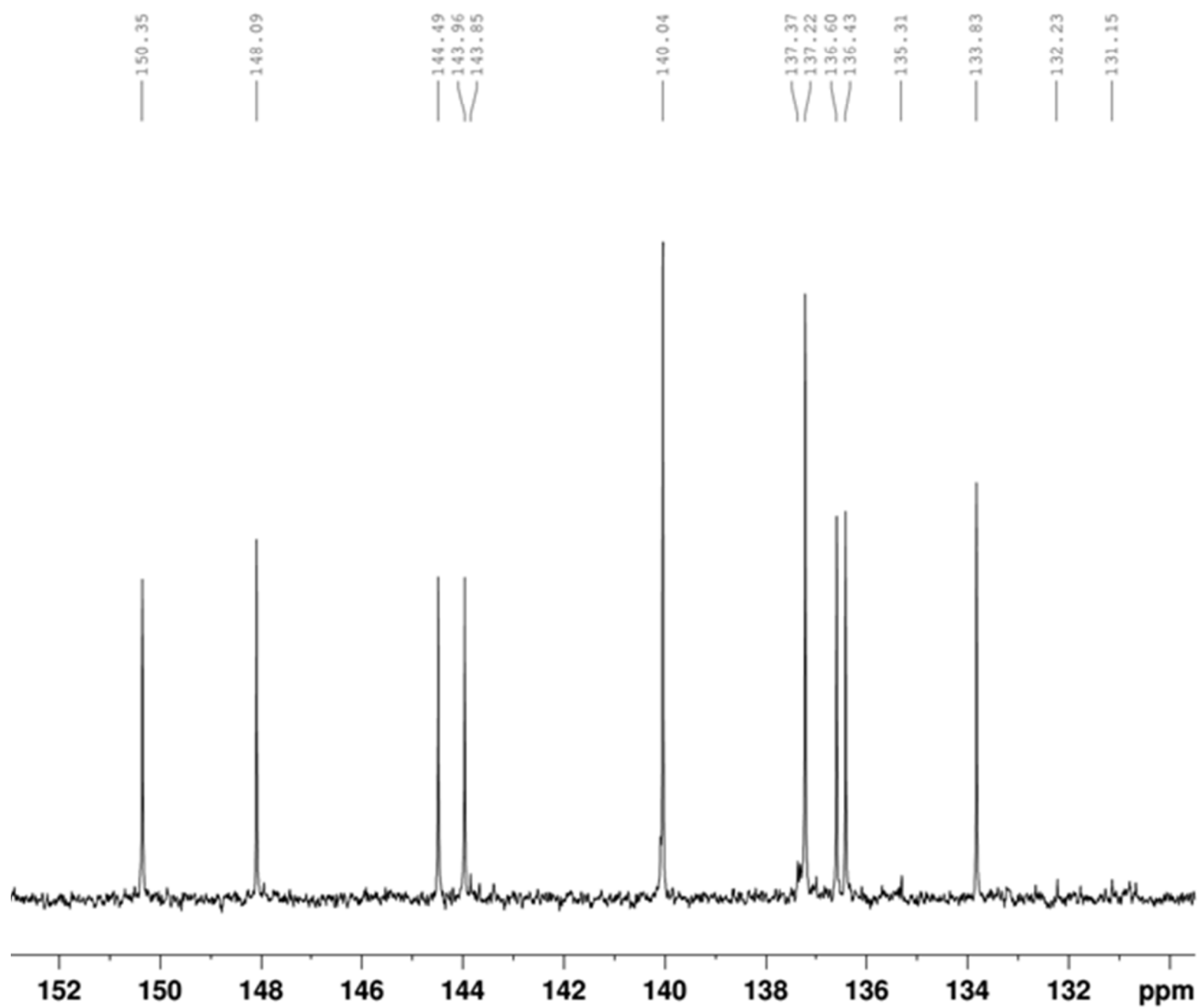


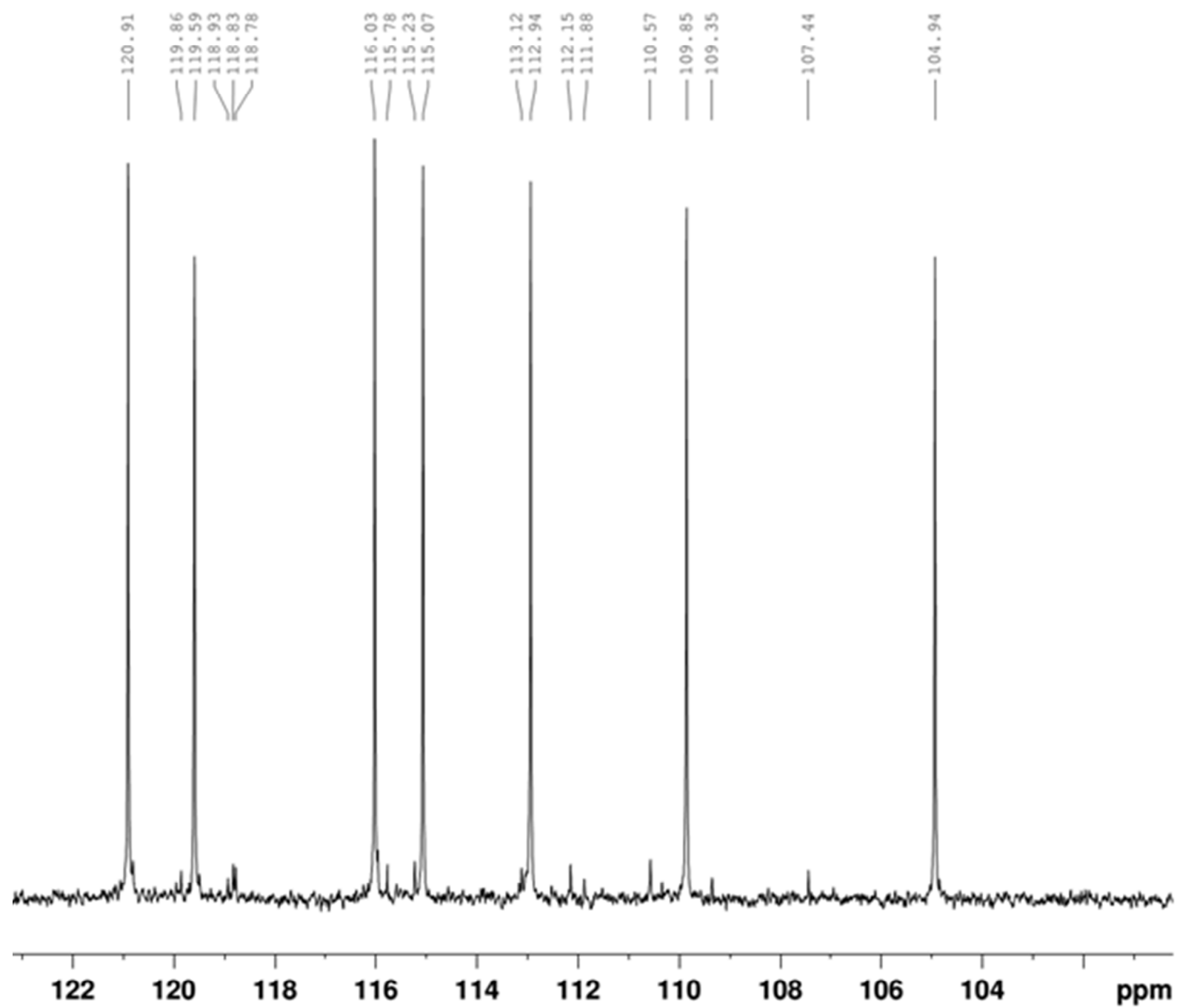
## COMPOUND 3

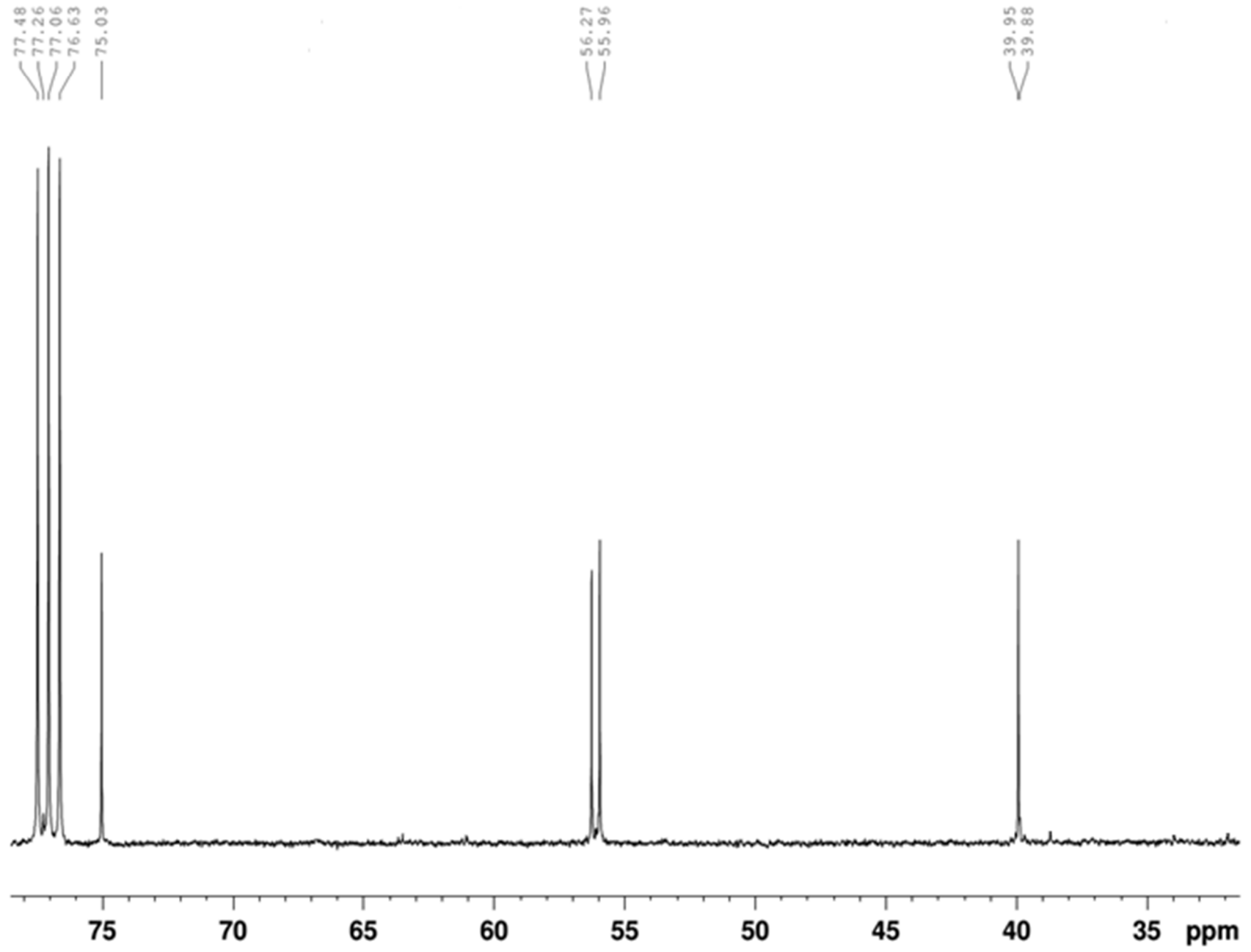
$^{13}\text{C}$  NMR spectrum ( $\delta$ ,  $\text{CDCl}_3$ , 75 MHz)





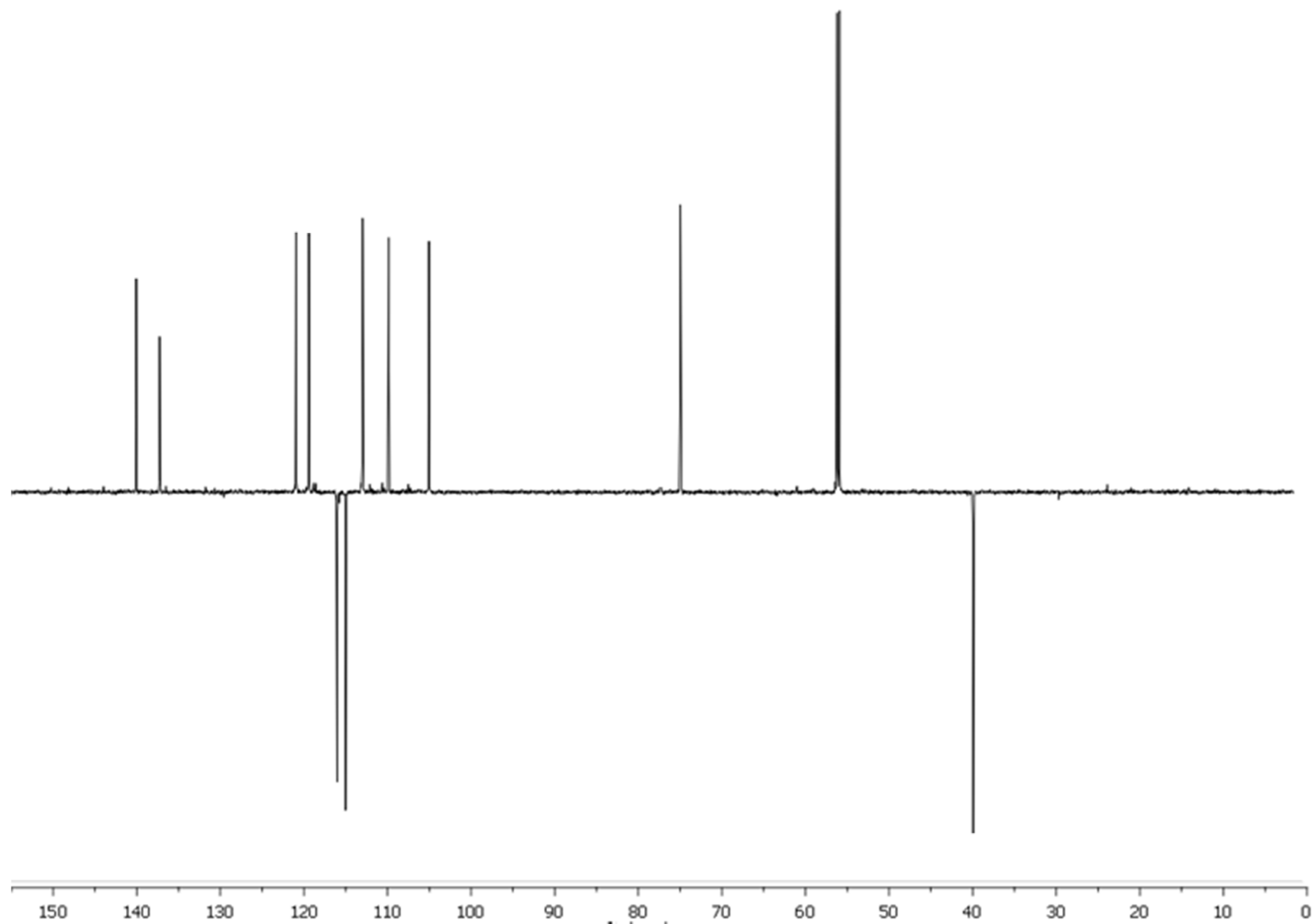






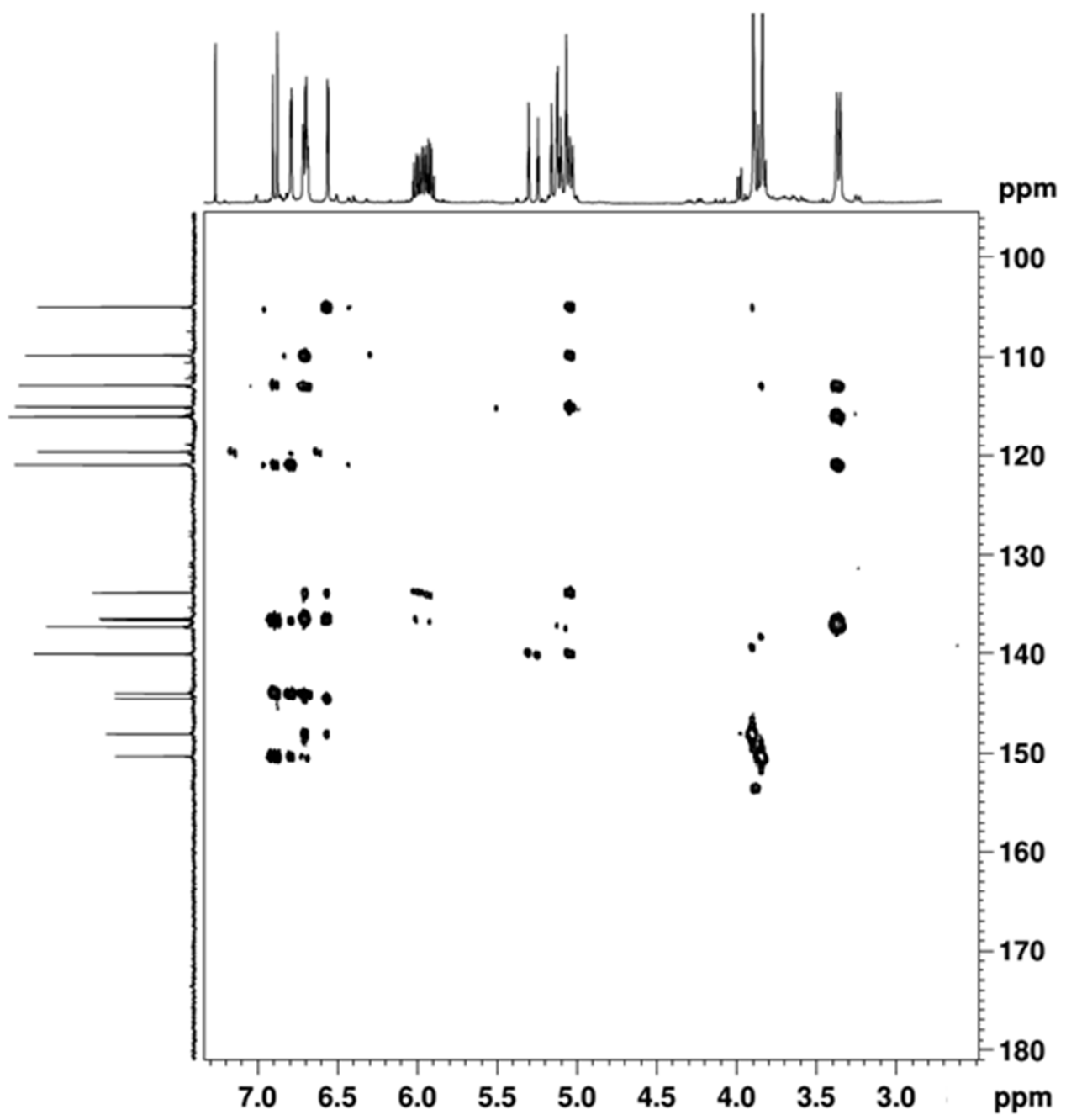
## COMPOUND 3

DEPT 135° NMR spectrum ( $\delta$ , CDCl<sub>3</sub>, 75 MHz)

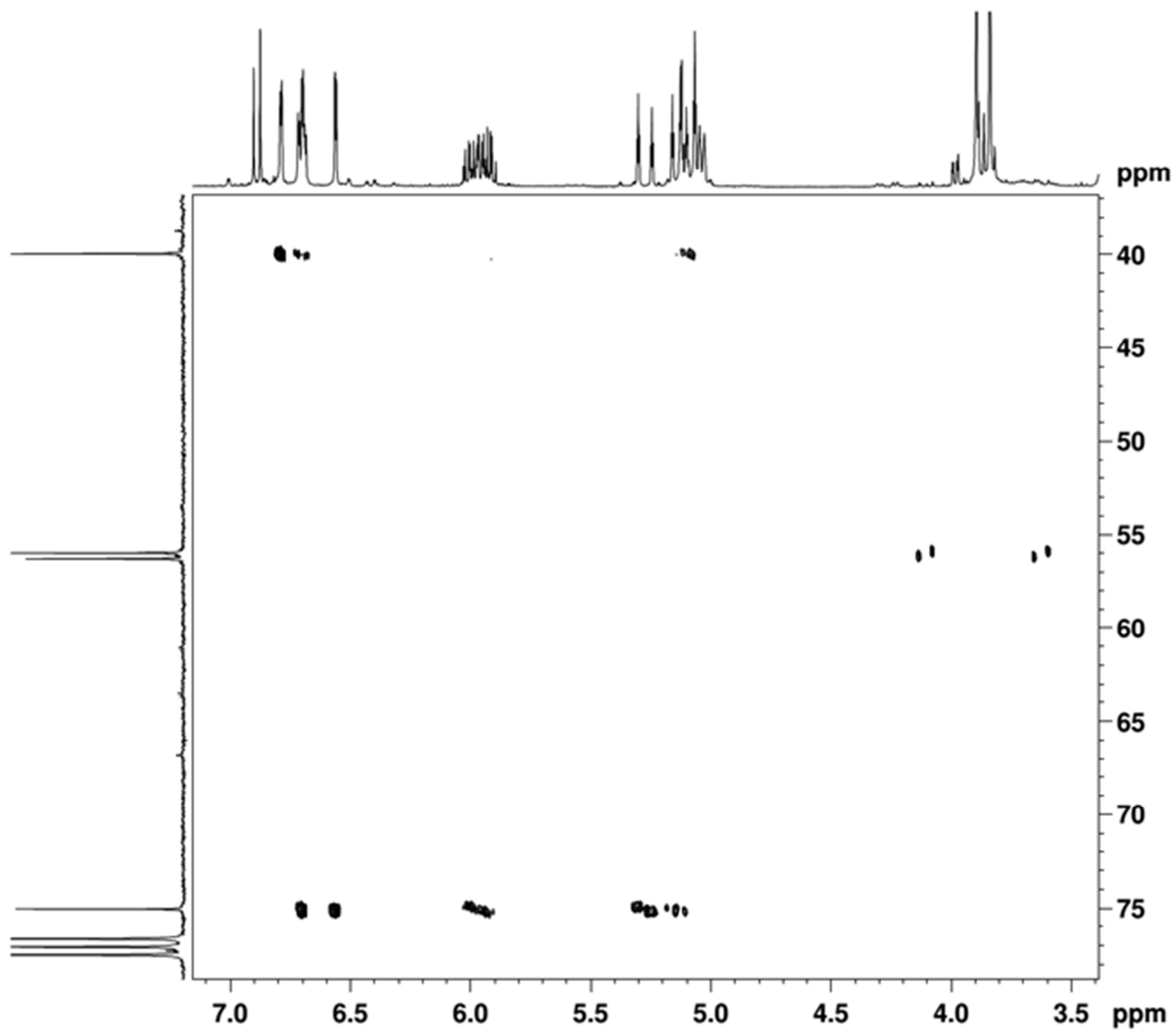


## COMPOUND 3

HMBC NMR spectrum ( $\delta$ , CDCl<sub>3</sub>, 300 and 75 MHz)

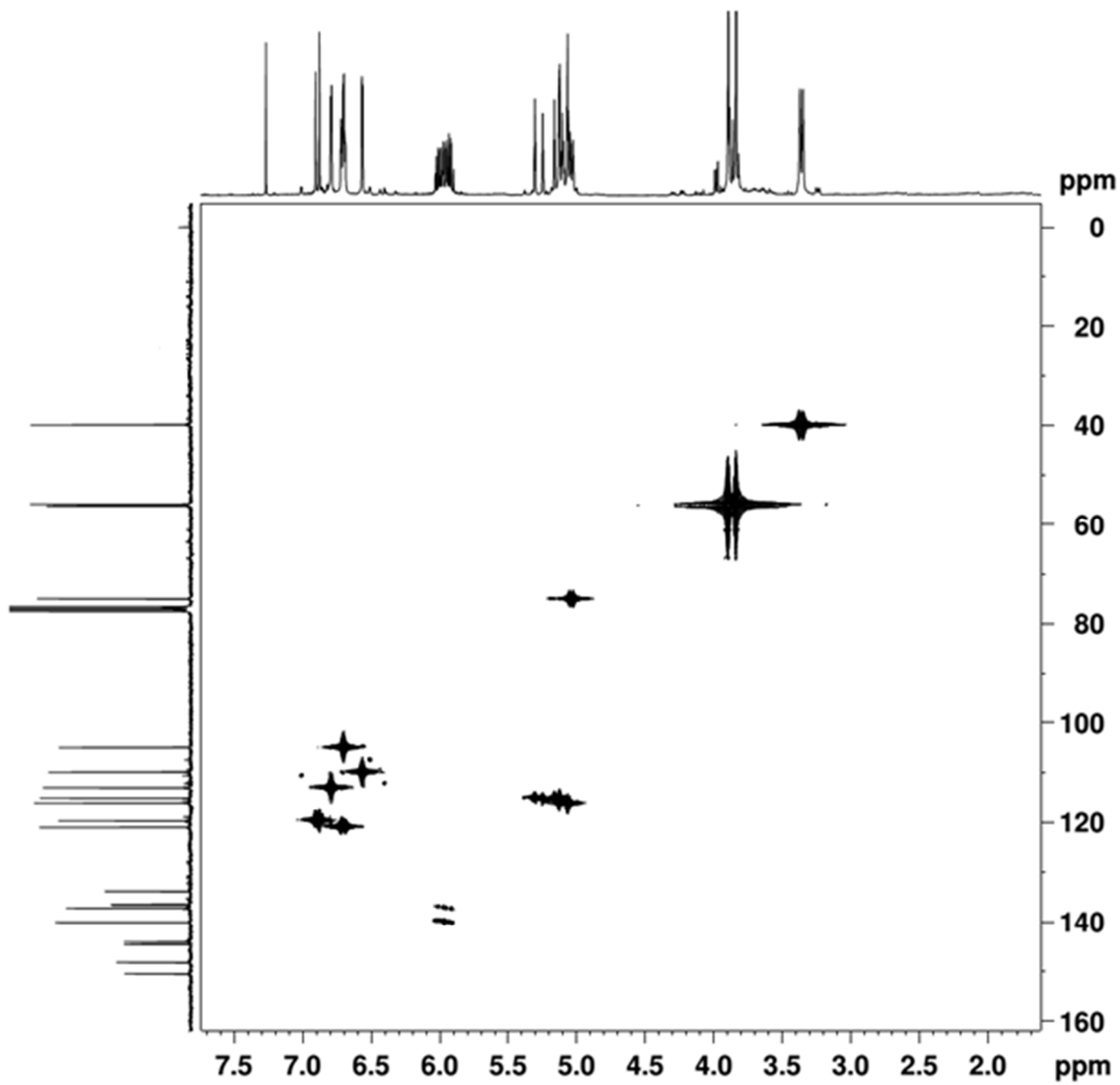


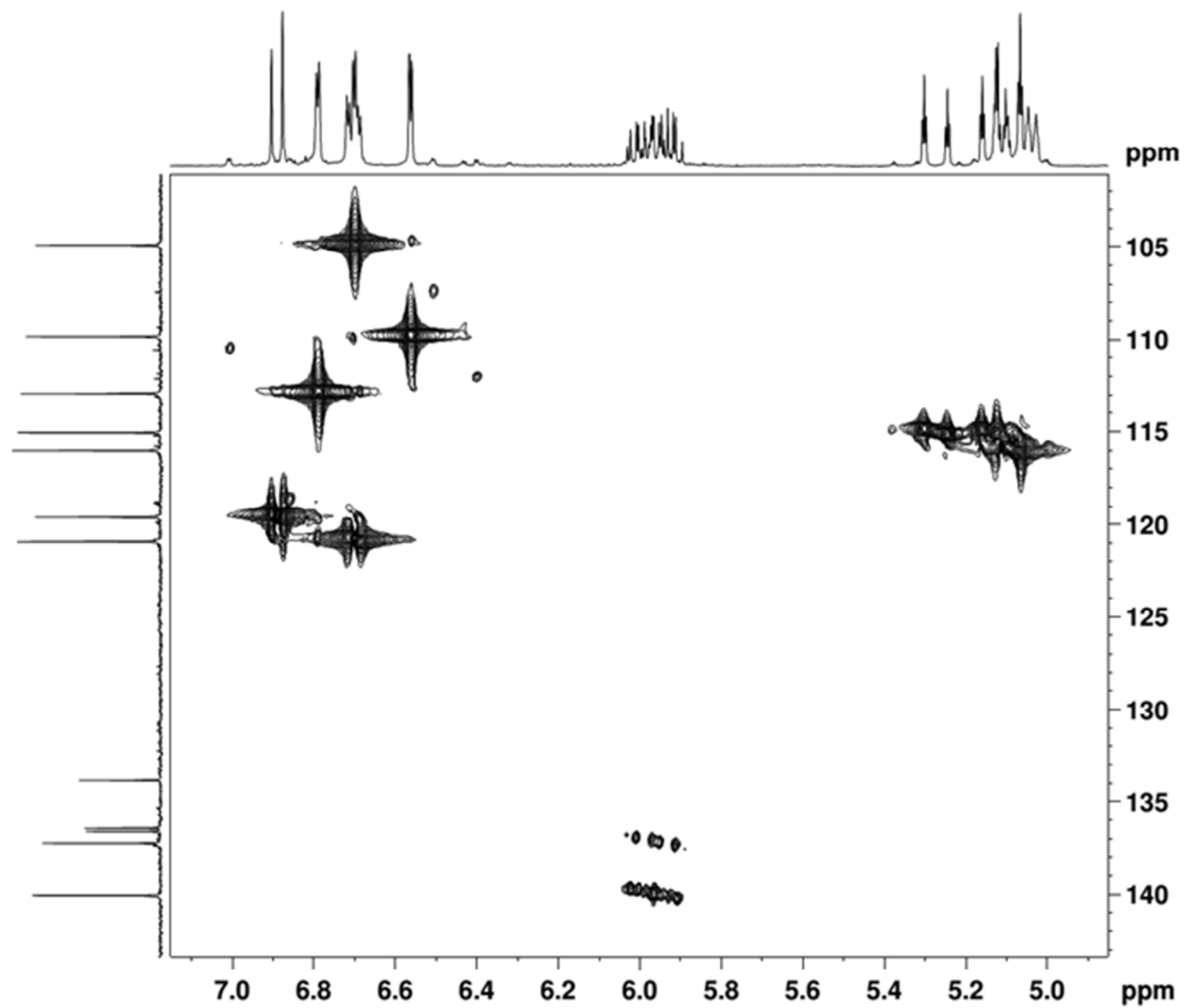




## COMPOUND 3

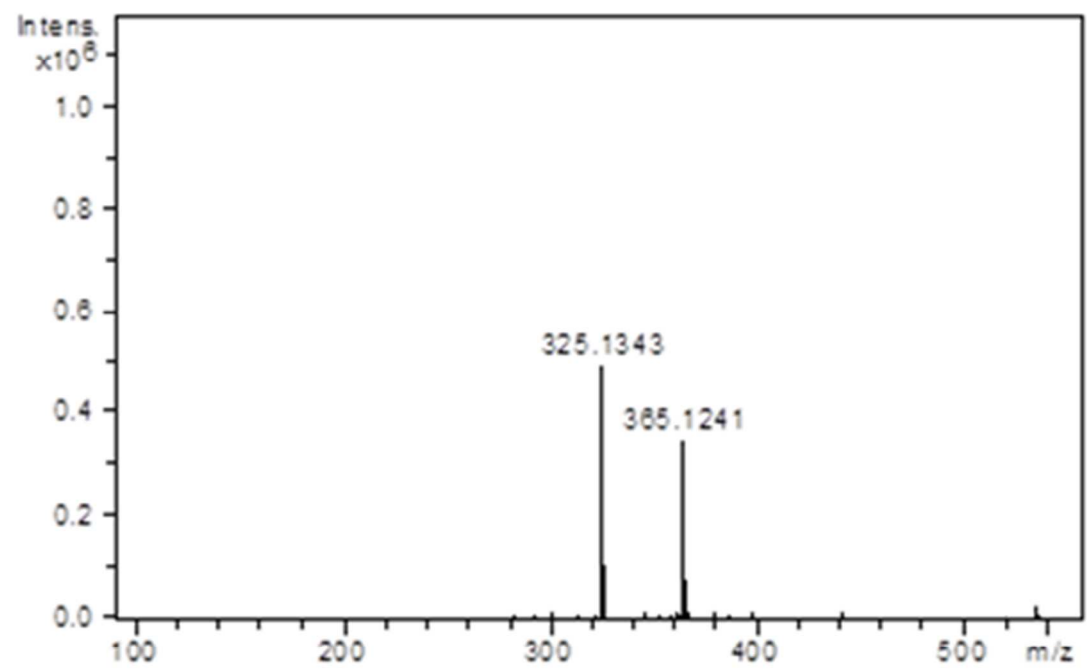
HSQC NMR spectrum ( $\delta$ , CDCl<sub>3</sub>, 300 and 75 MHz)





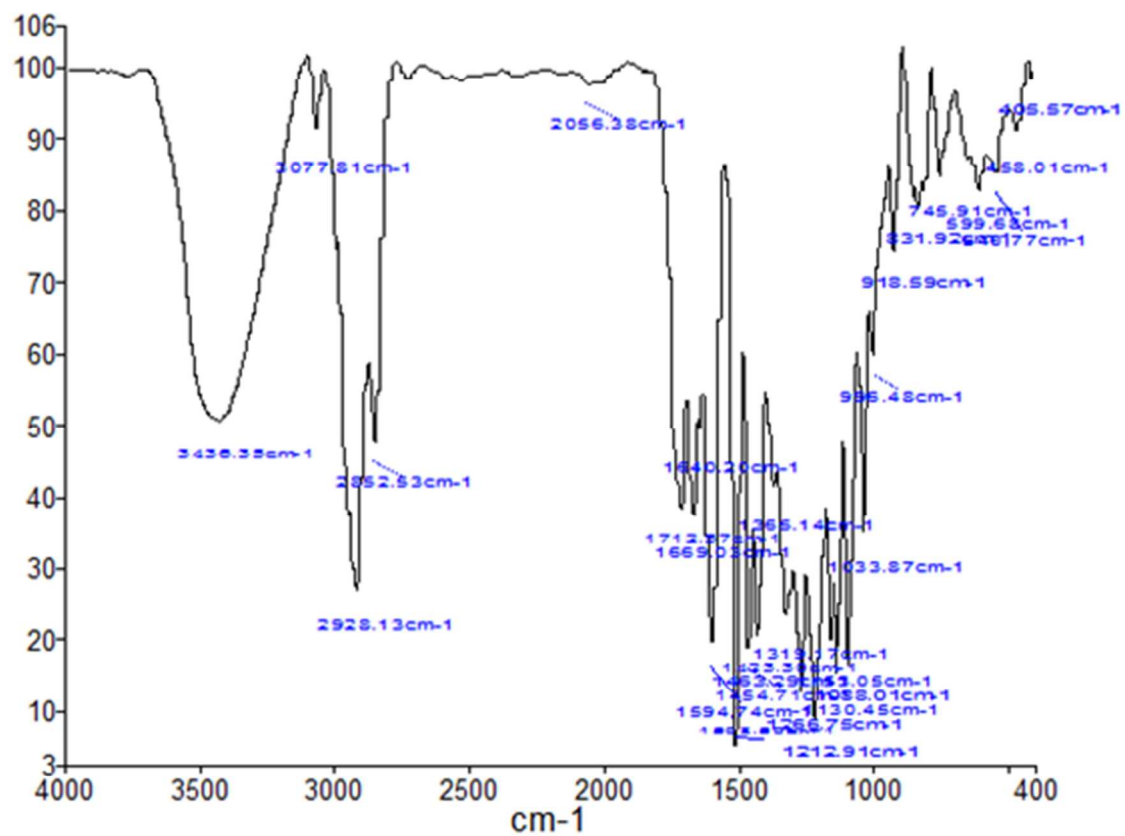
# COMPOUND 3

## MASS SPECTRUM



# COMPOUND 3

## INFRARED SPECTRUM



# COMPOUND 3

## CIRCULAR DICHROISM SPECTRUM

