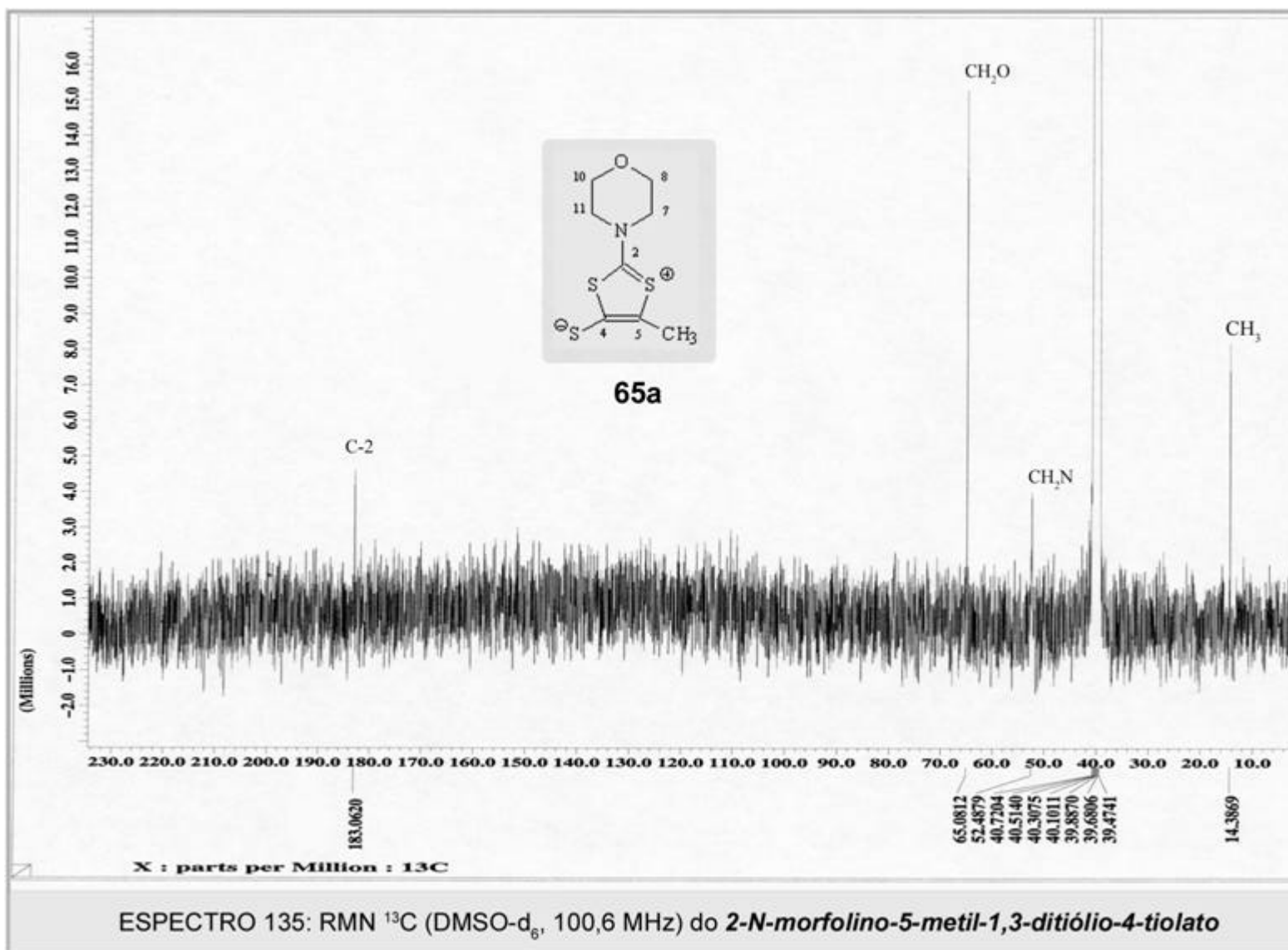
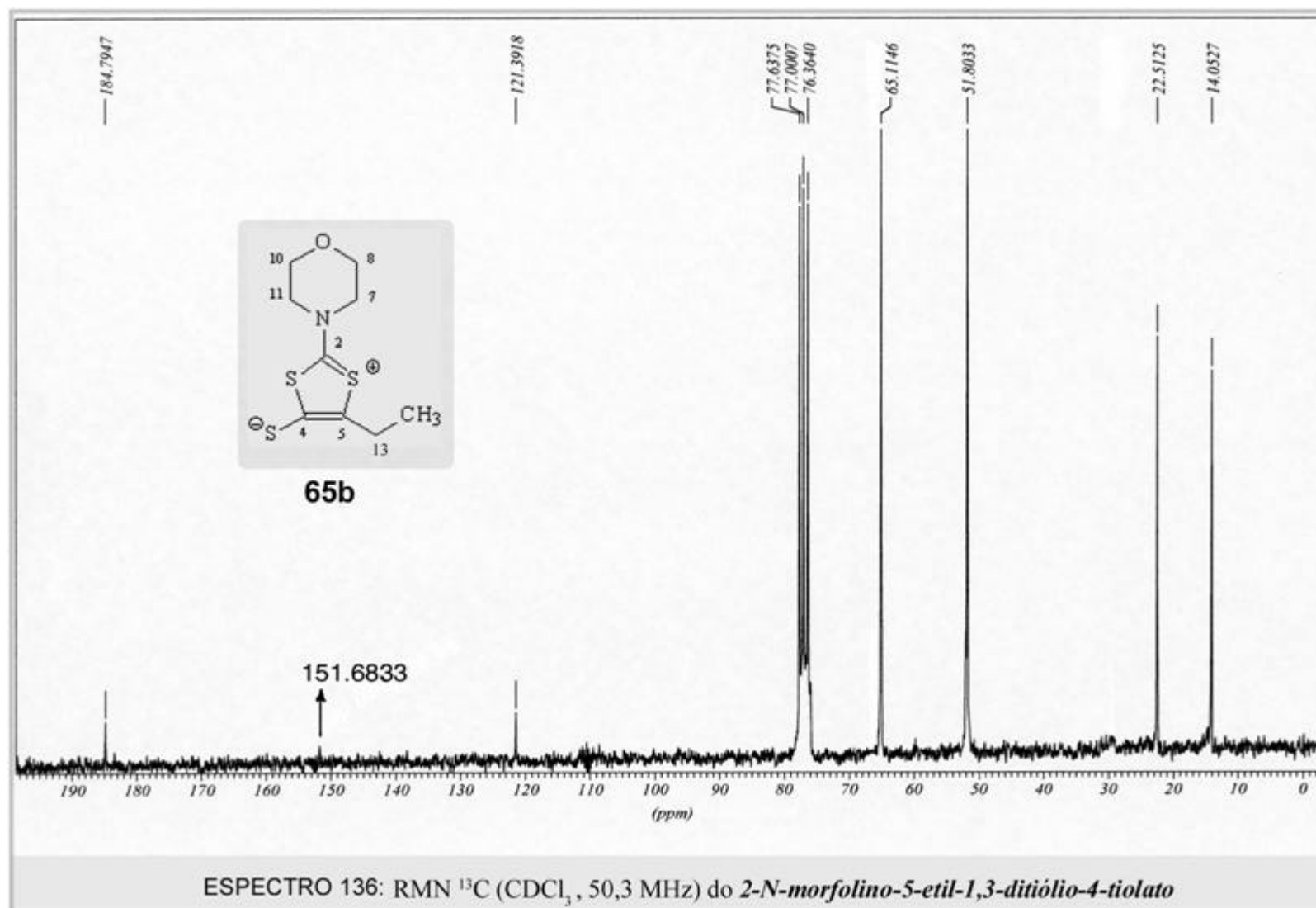
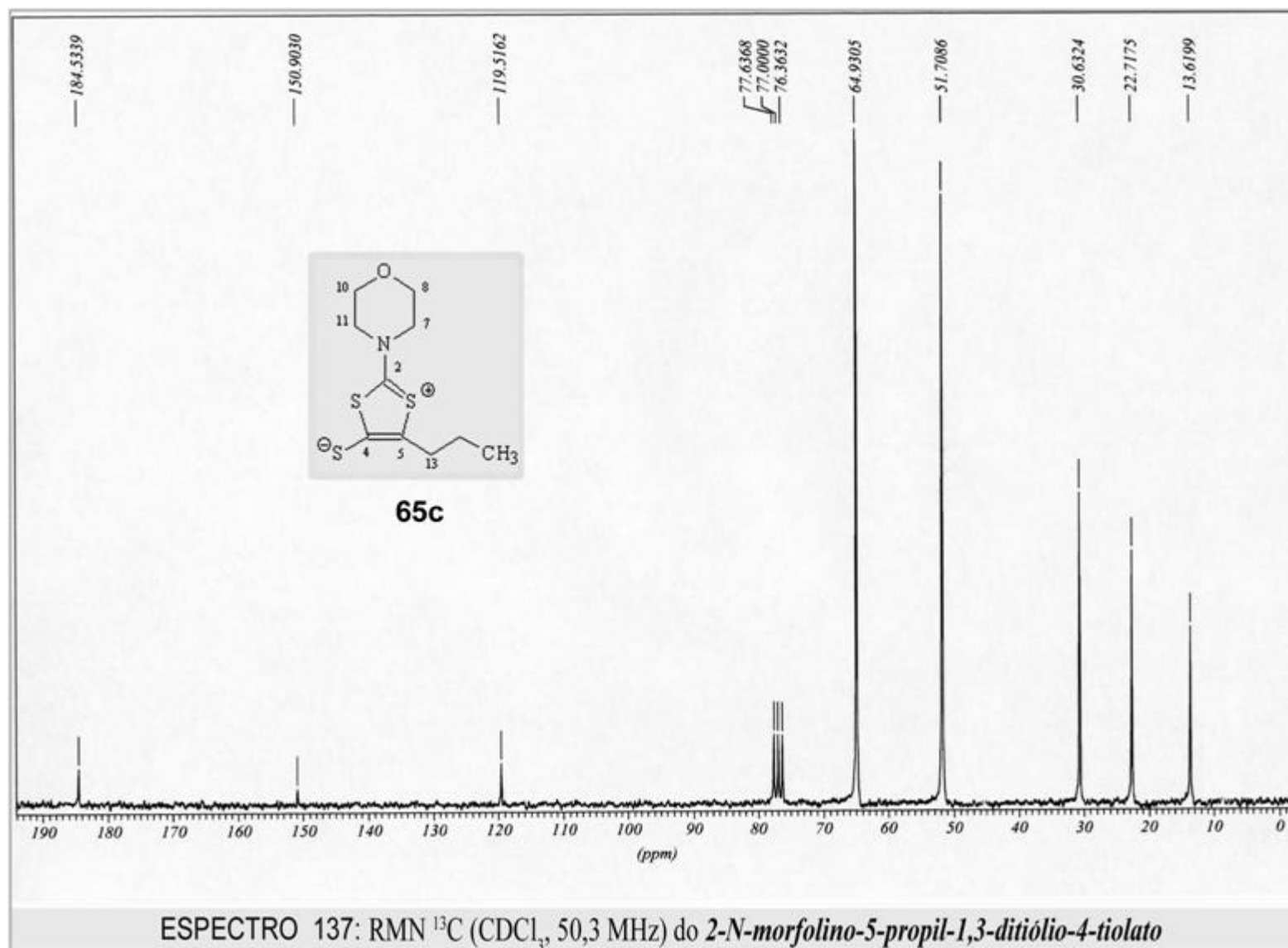


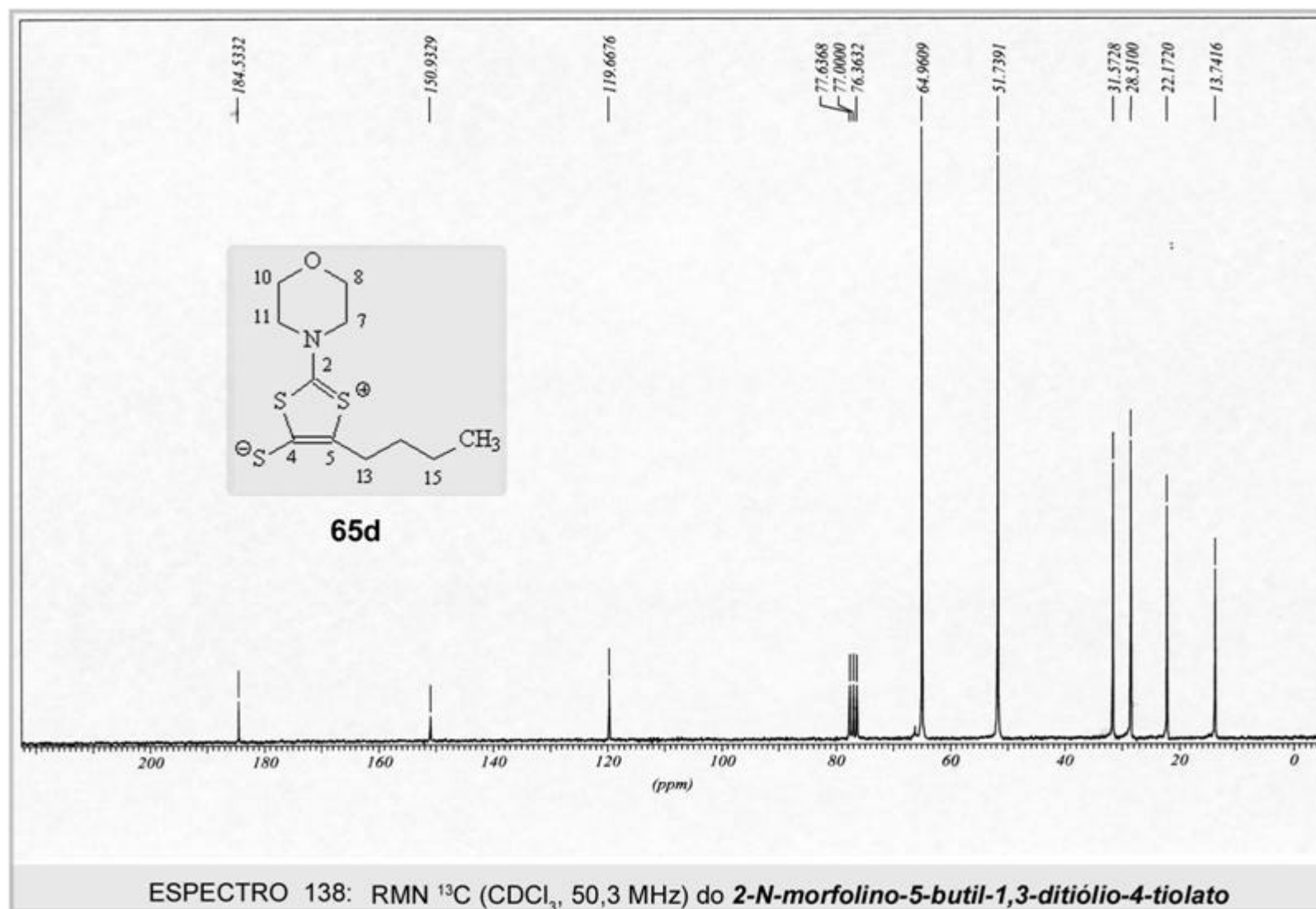
7.4 ESPECTROS DE RMN DE ^{13}C - DEPT

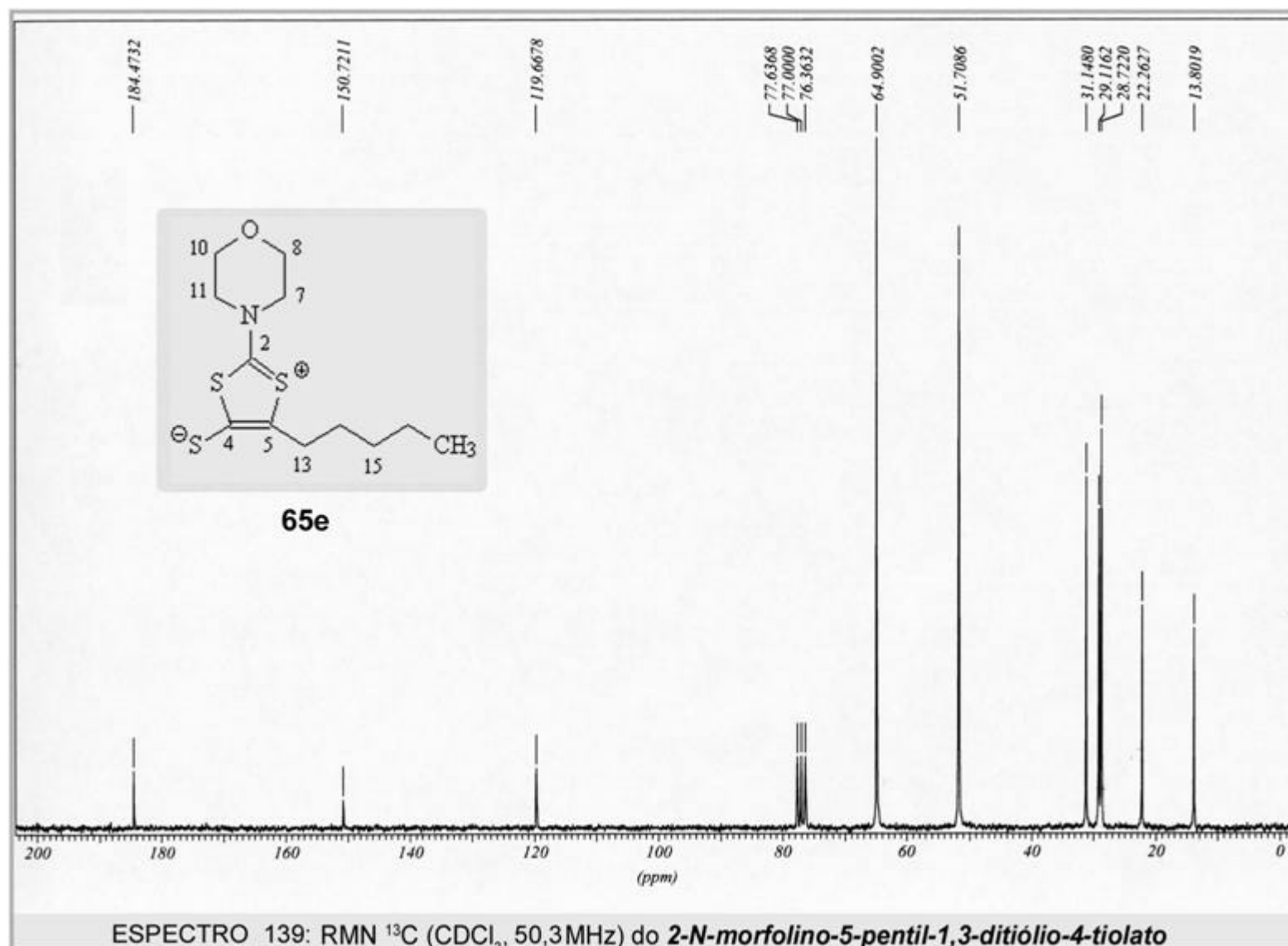
7.4.2 Compostos mesoiônicos *2-N-amino-5-alquil-1,3-ditiolio-4-tiolatos*

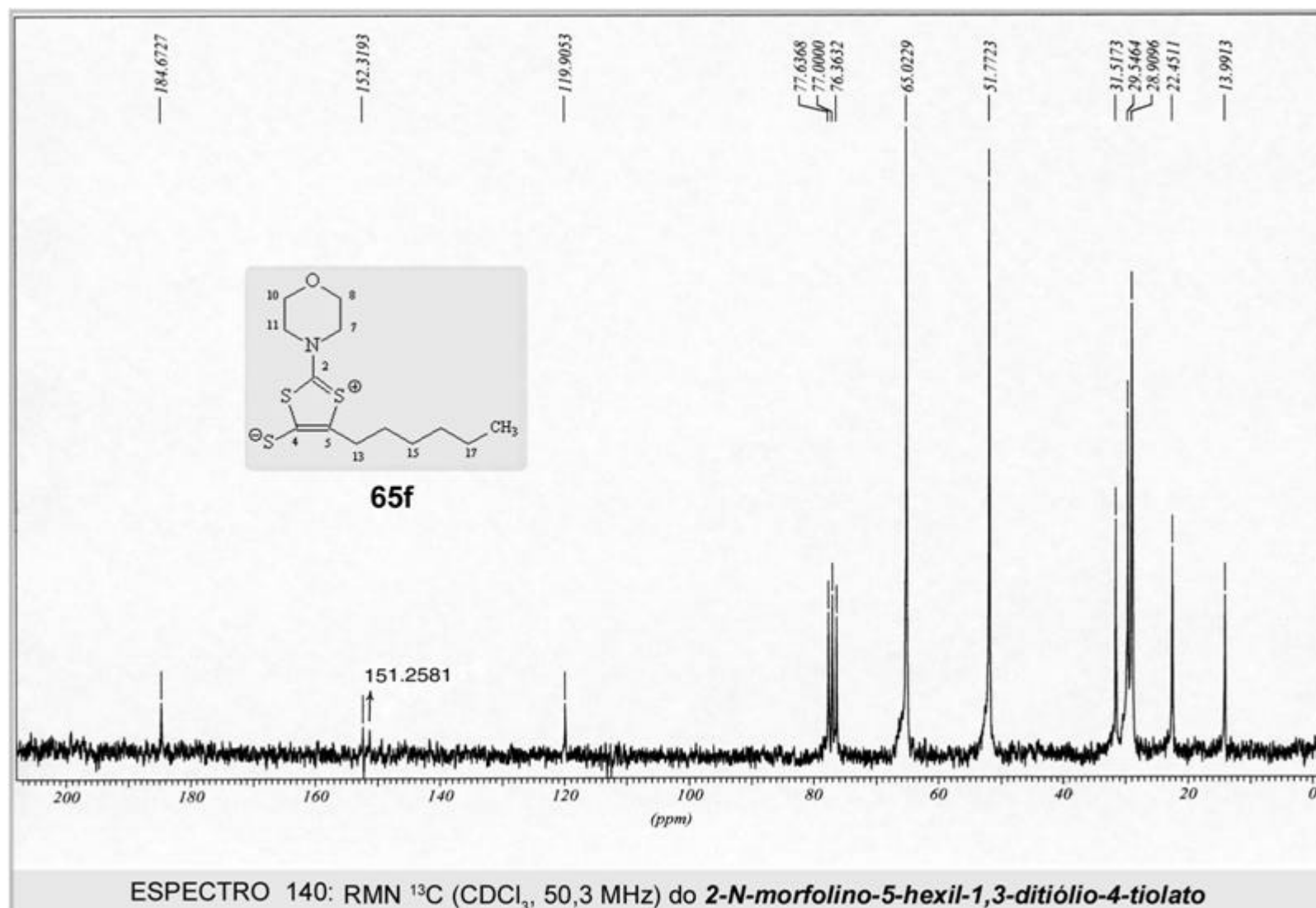


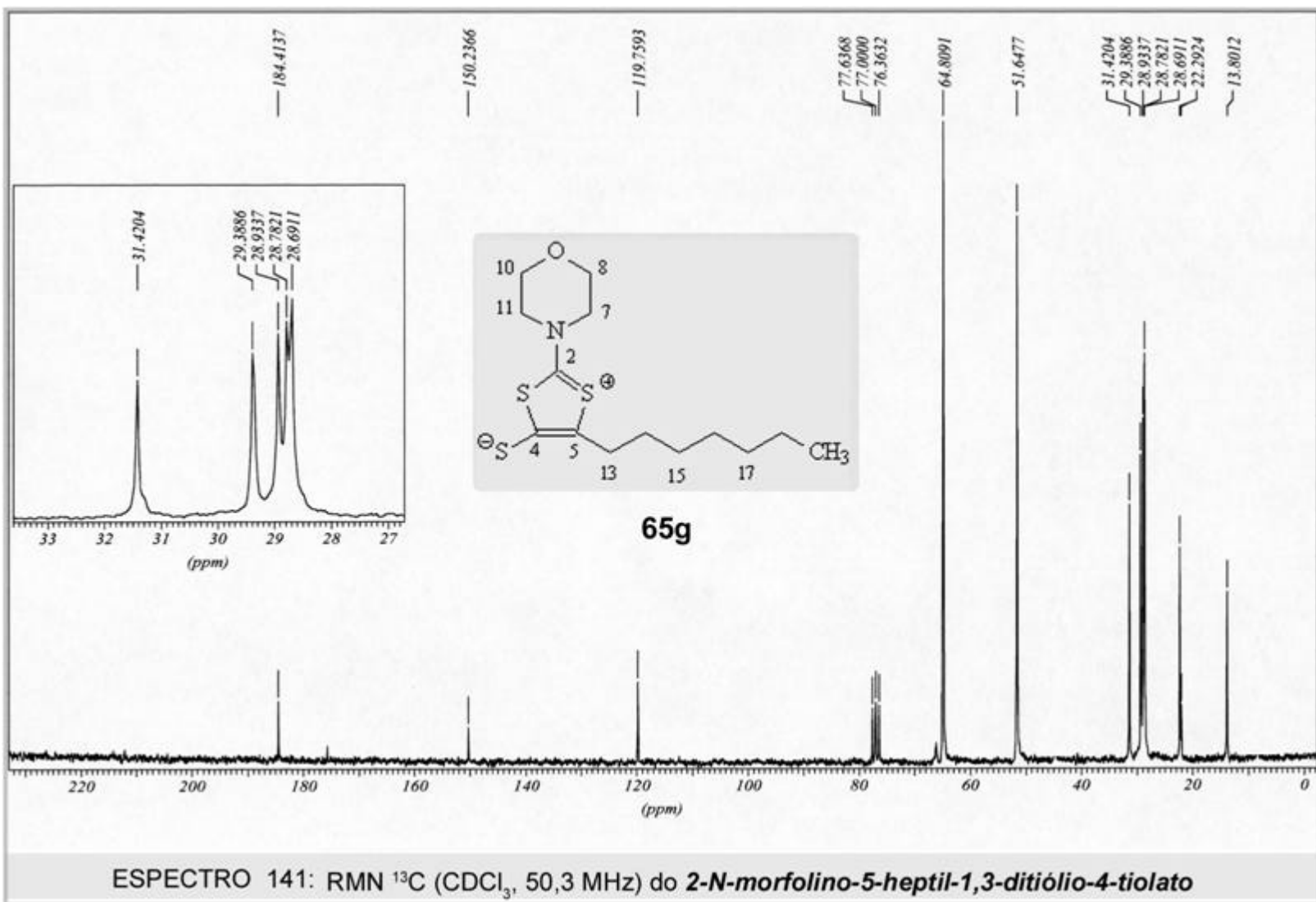


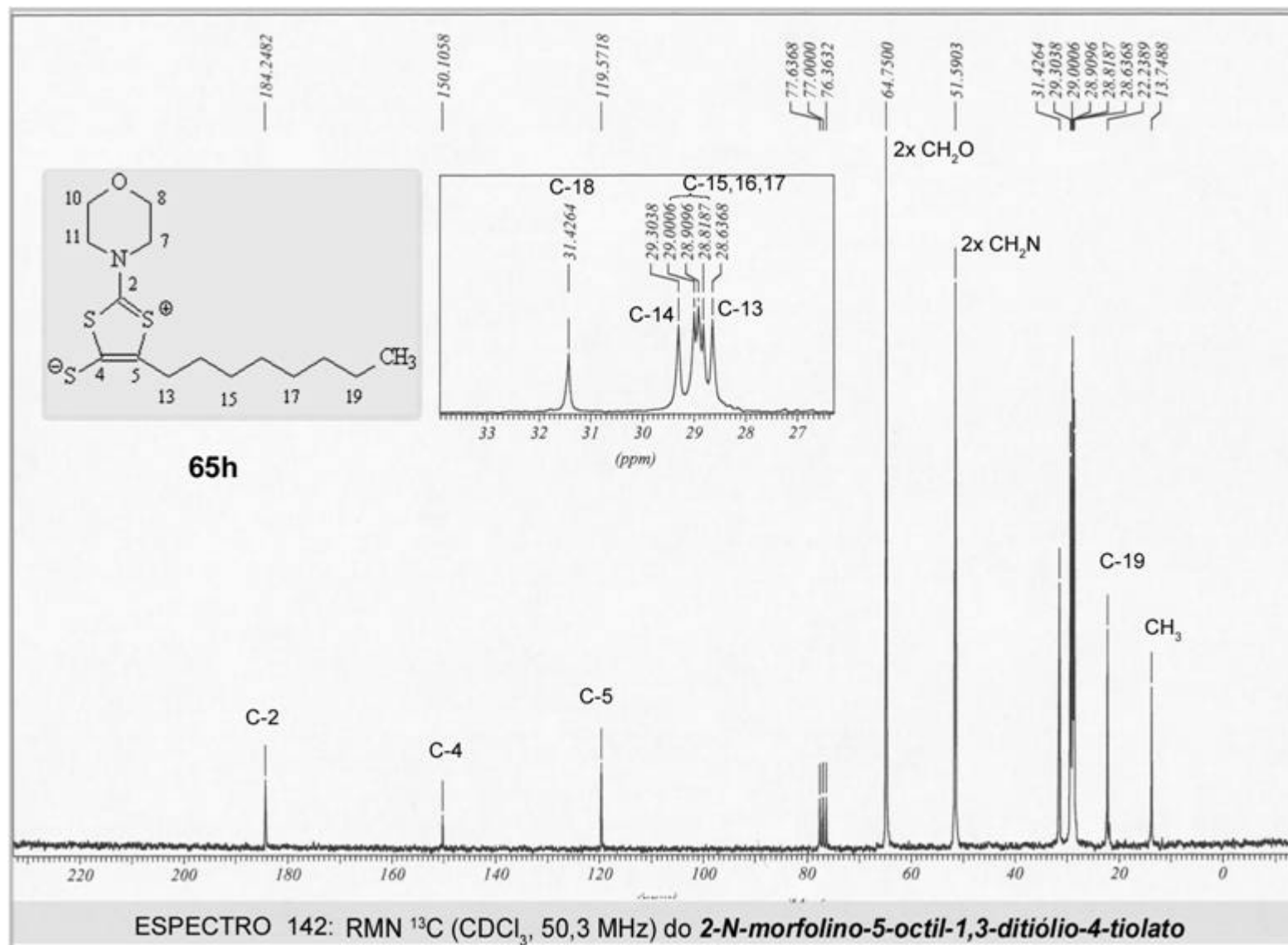


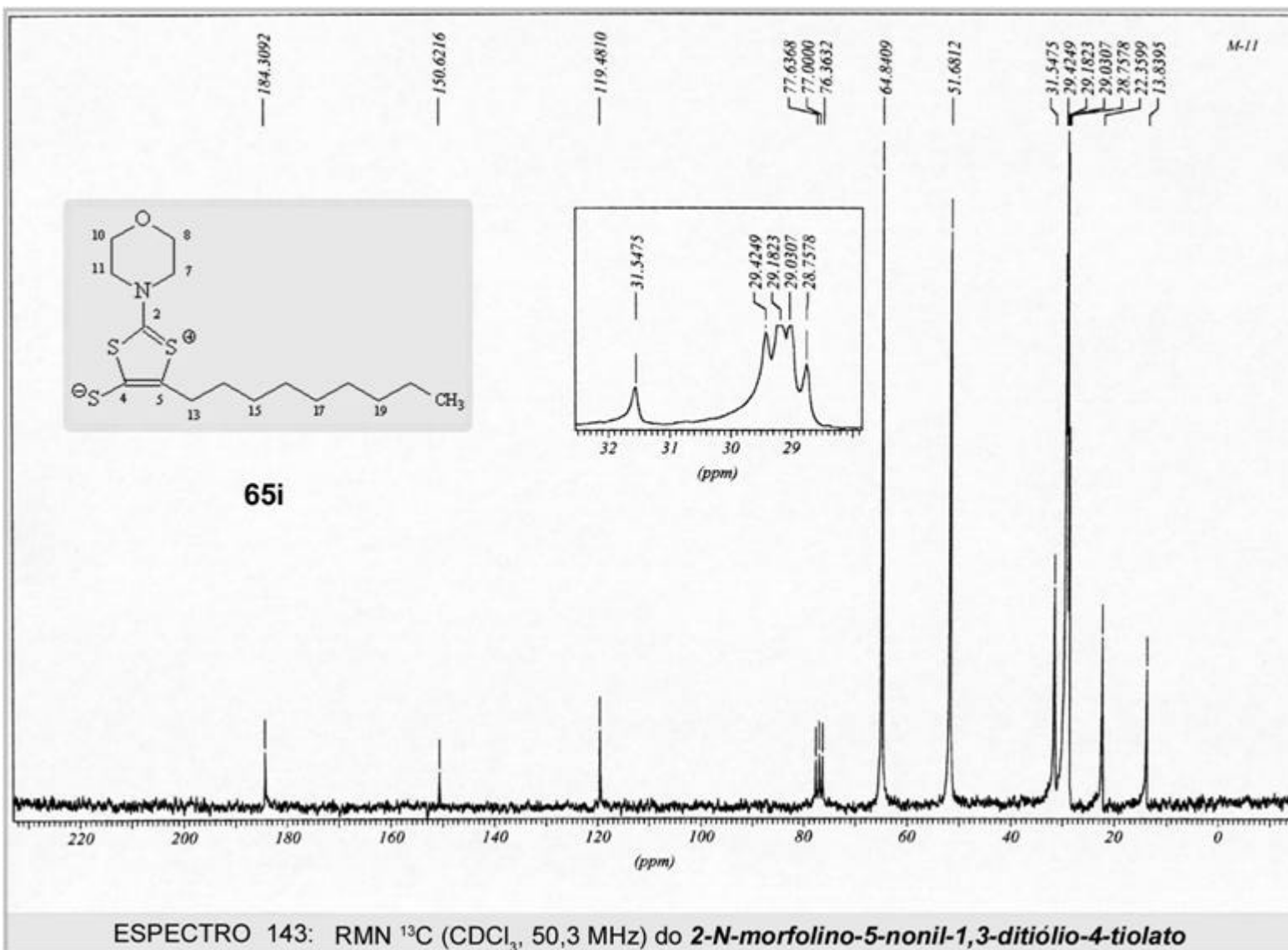


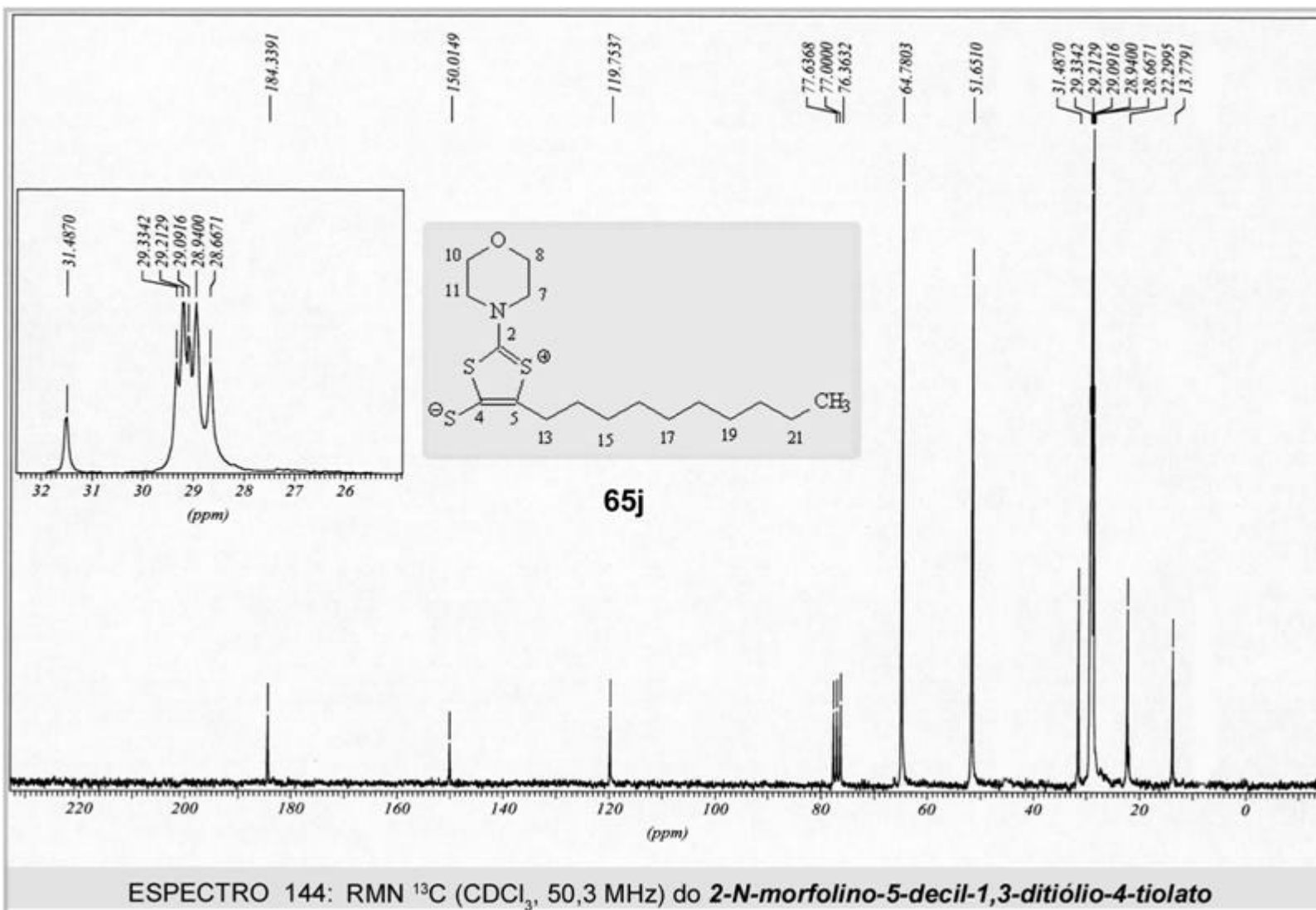


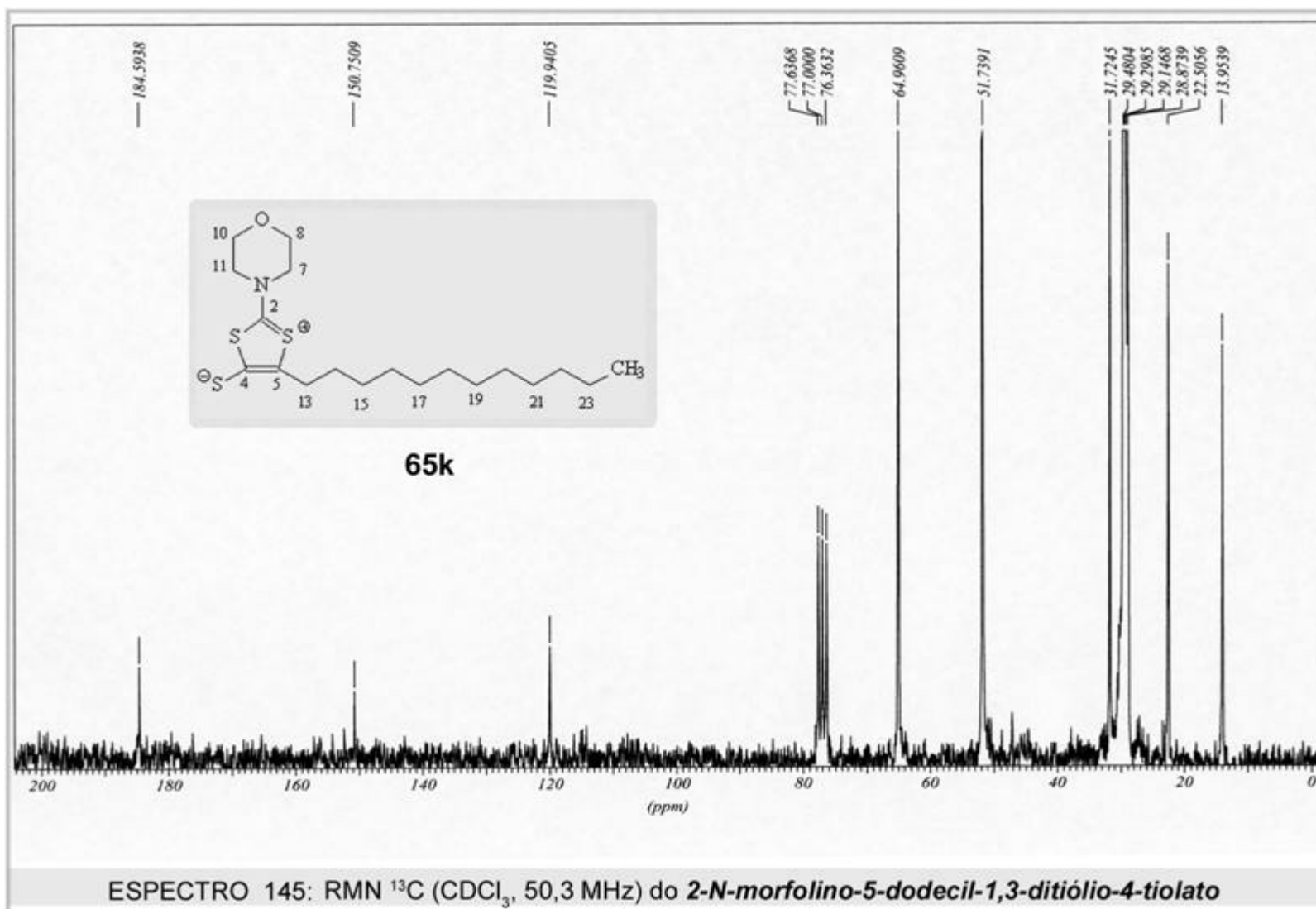


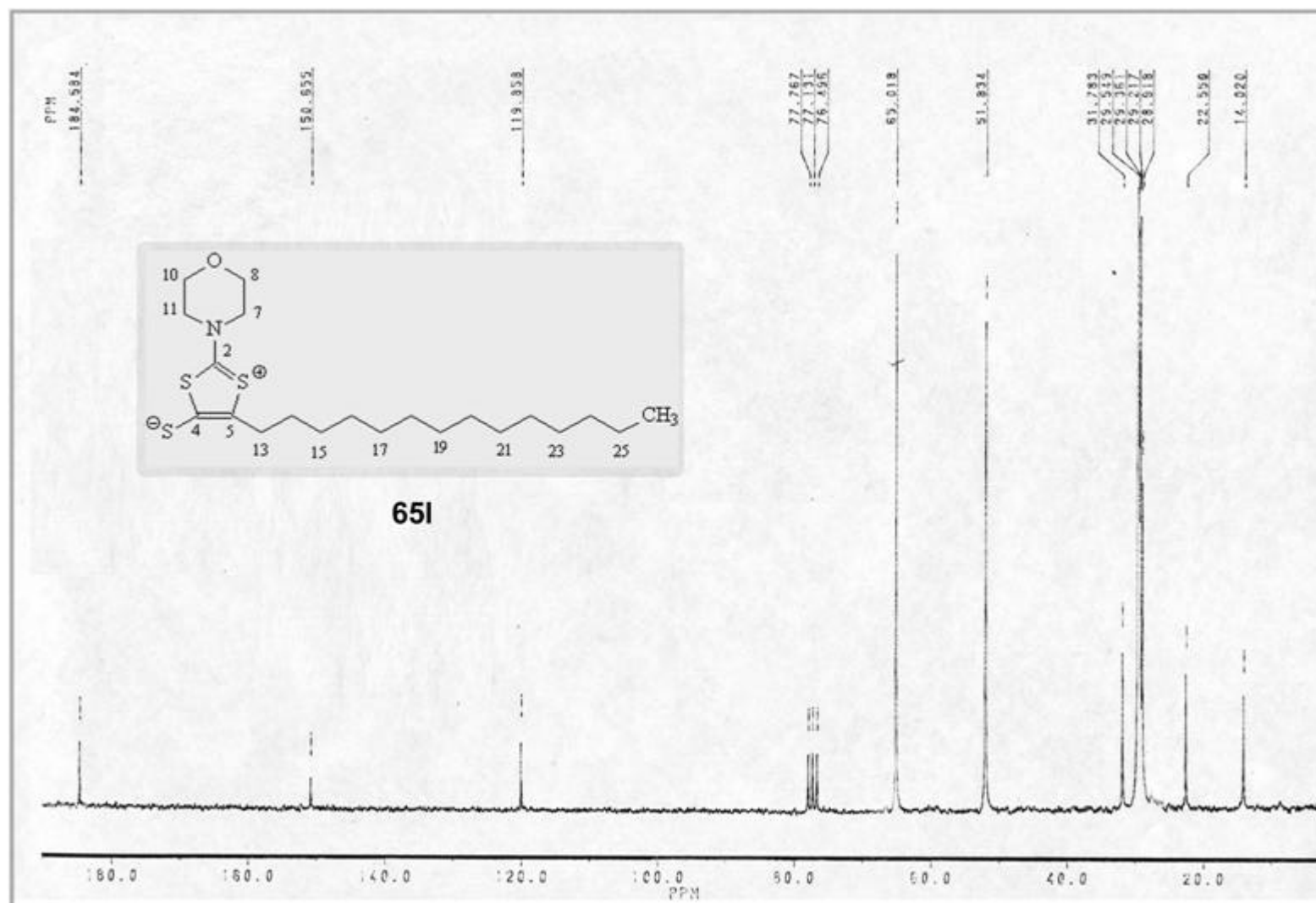




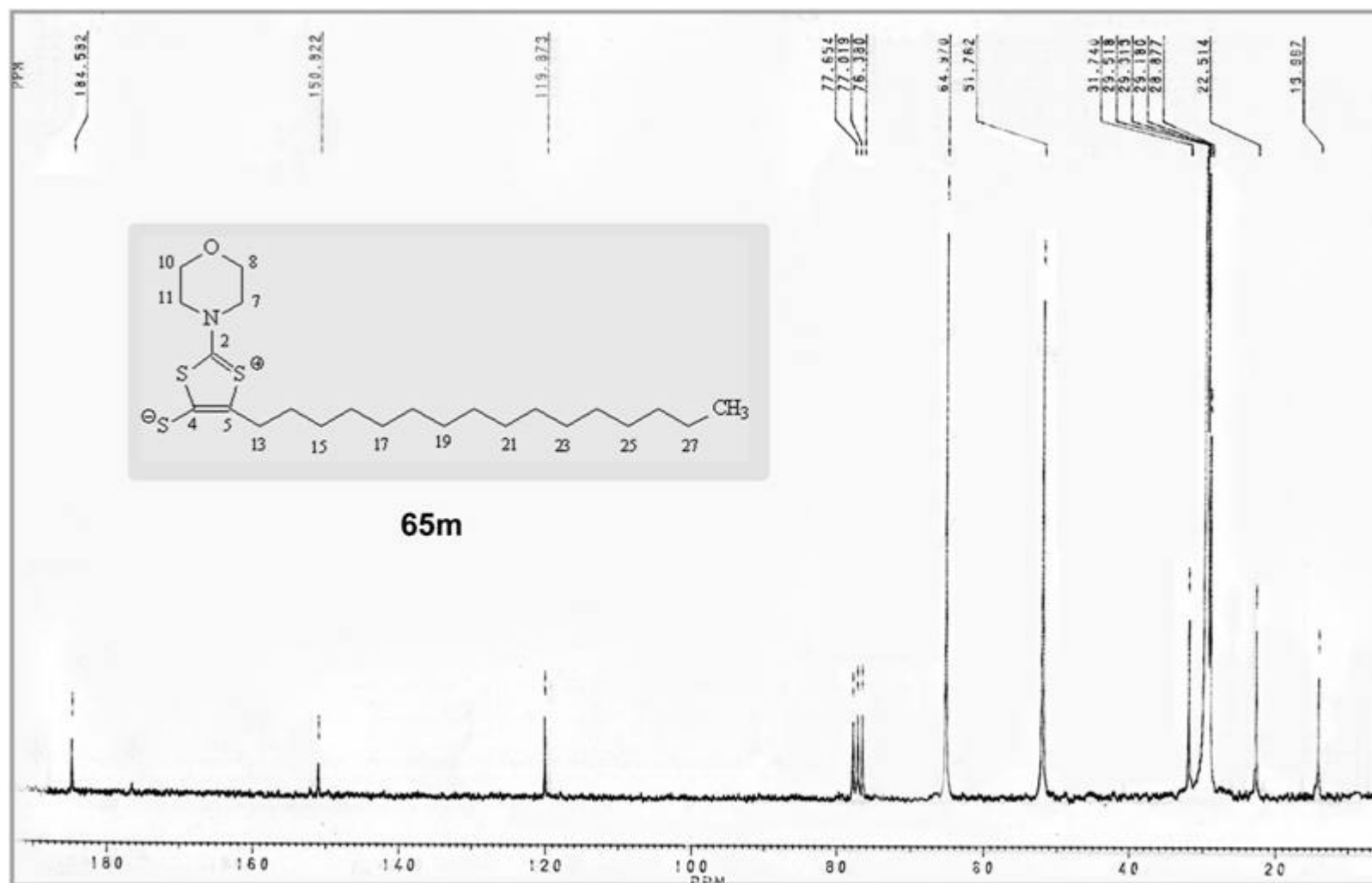




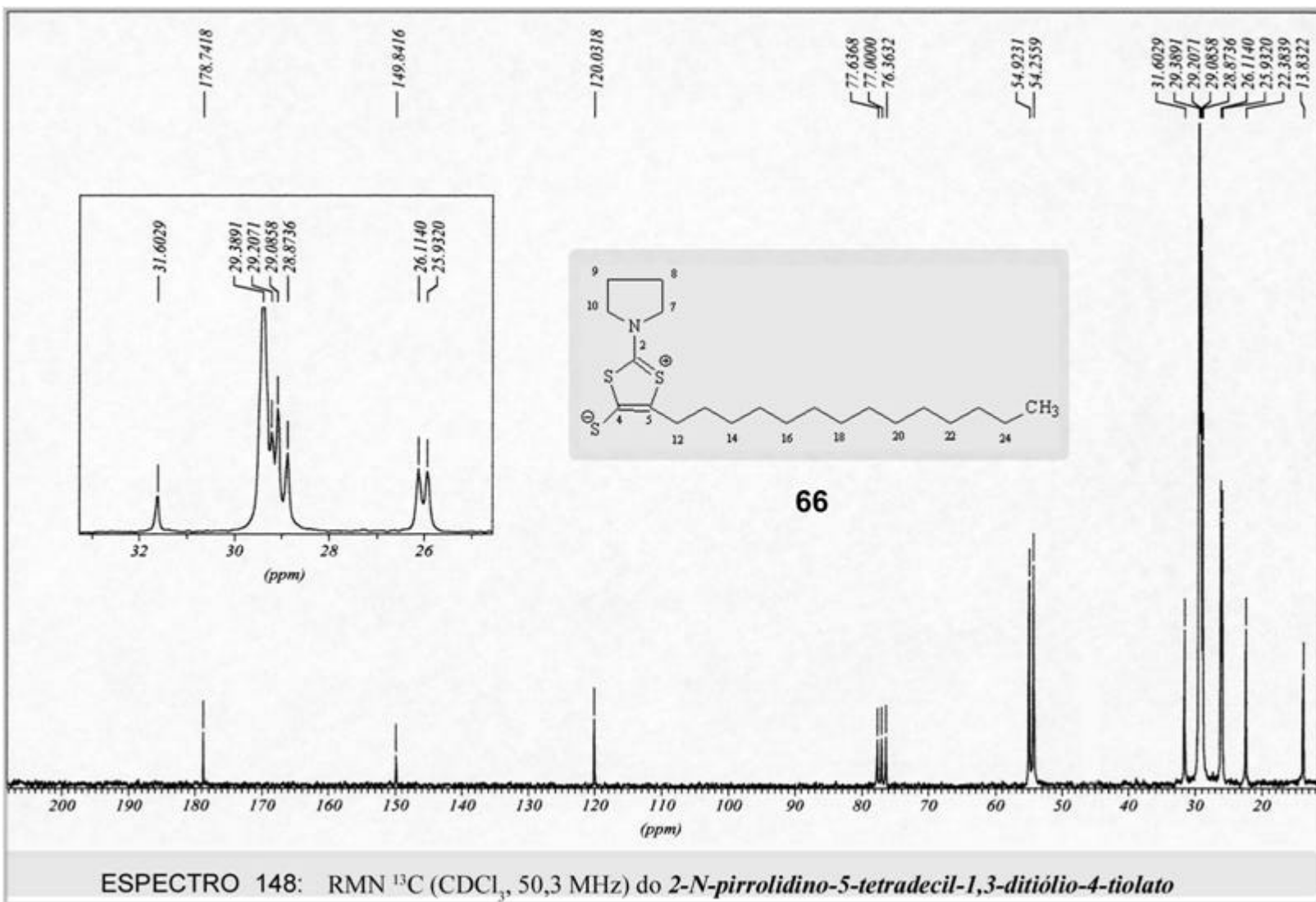


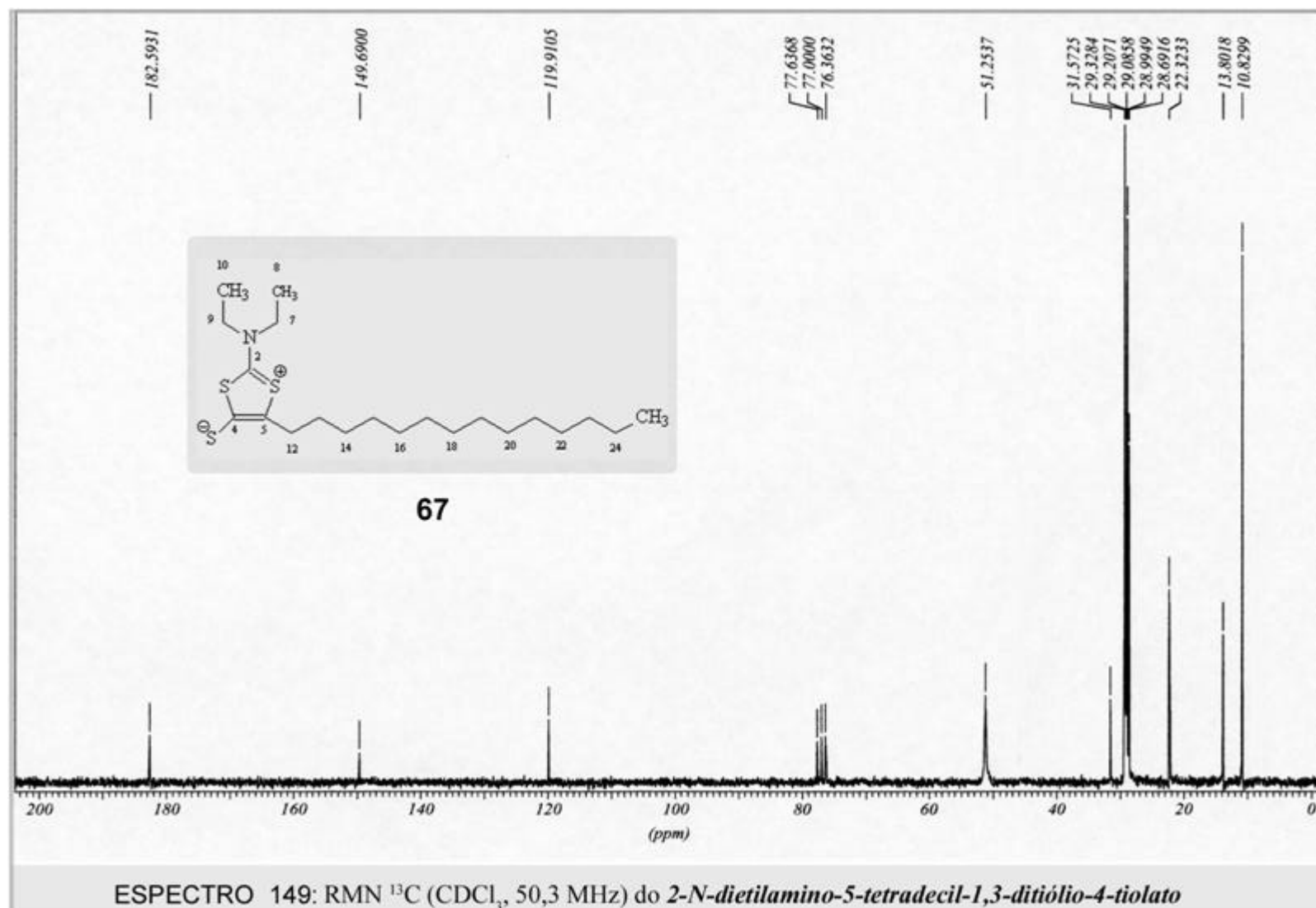


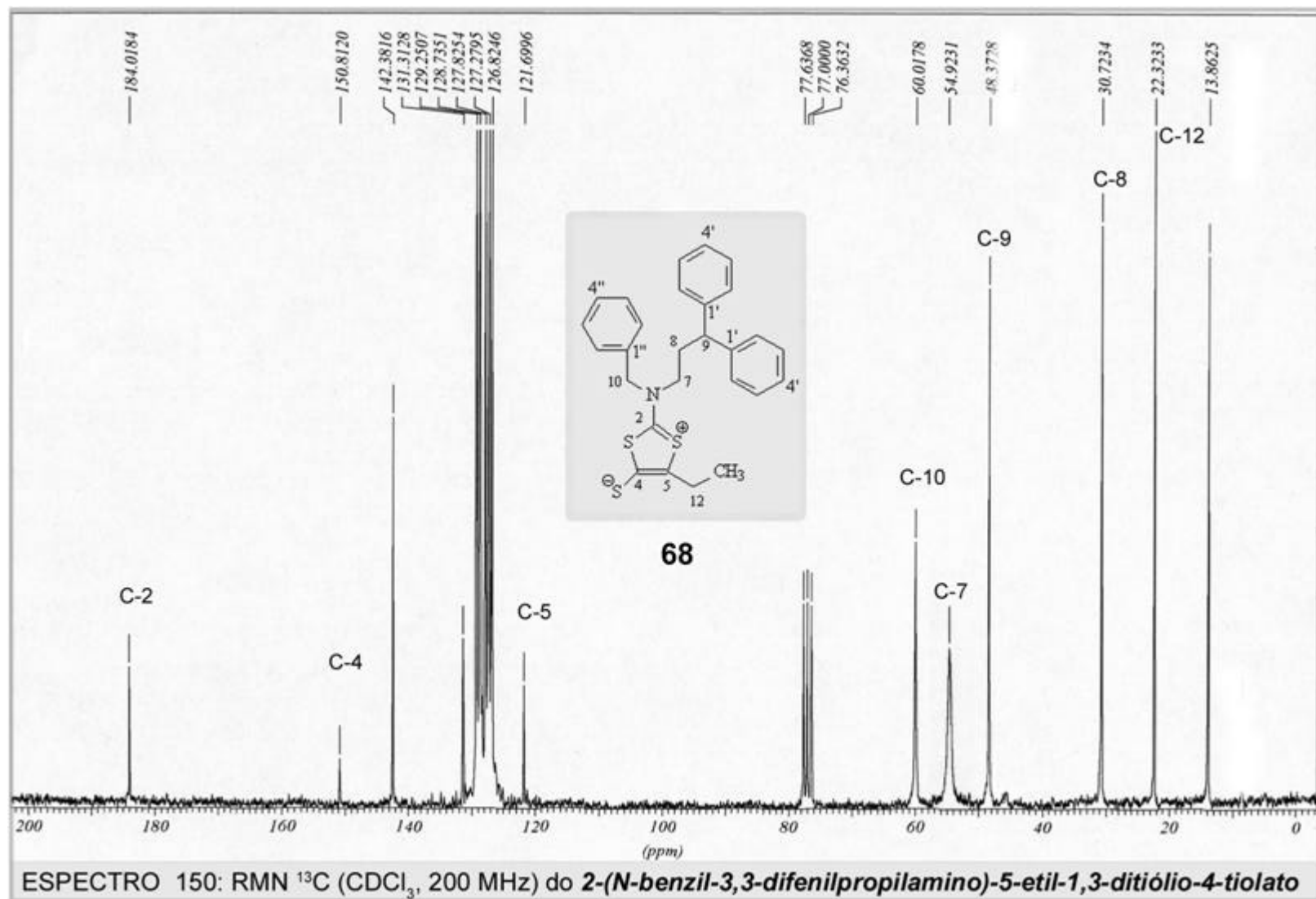
ESPECTRO 146: RMN ¹³C (CDCl₃, 50,3 MHz) do 2-N-morfolino-5-tetradecil-1,3-ditiólio-4-tiolato

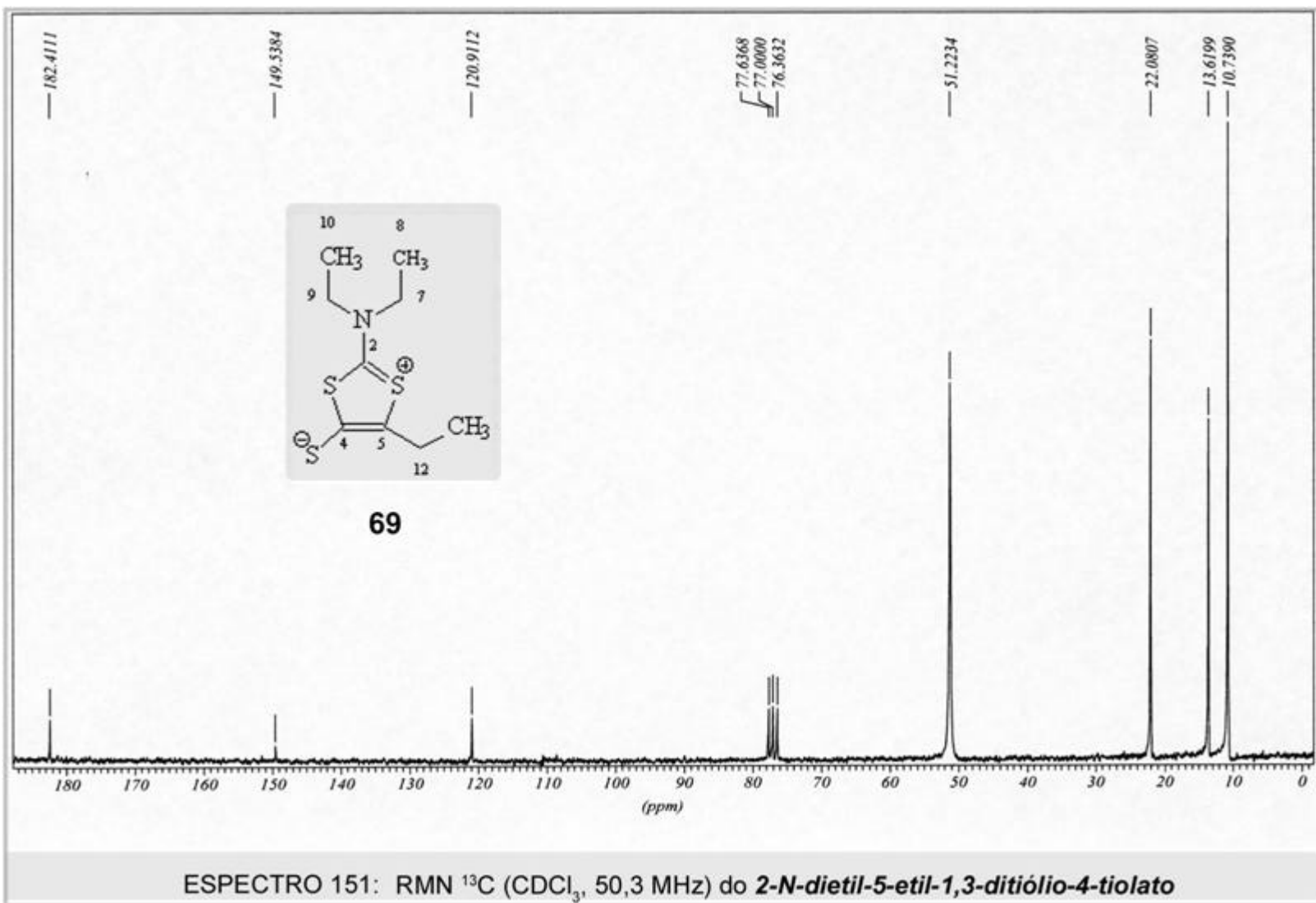


ESPECTRO 147: RMN ¹³C (CDCl₃, 50,3 MHz) do 2-N-morfolino-5-hexadecil-1,3-ditiólio-4-tiolato



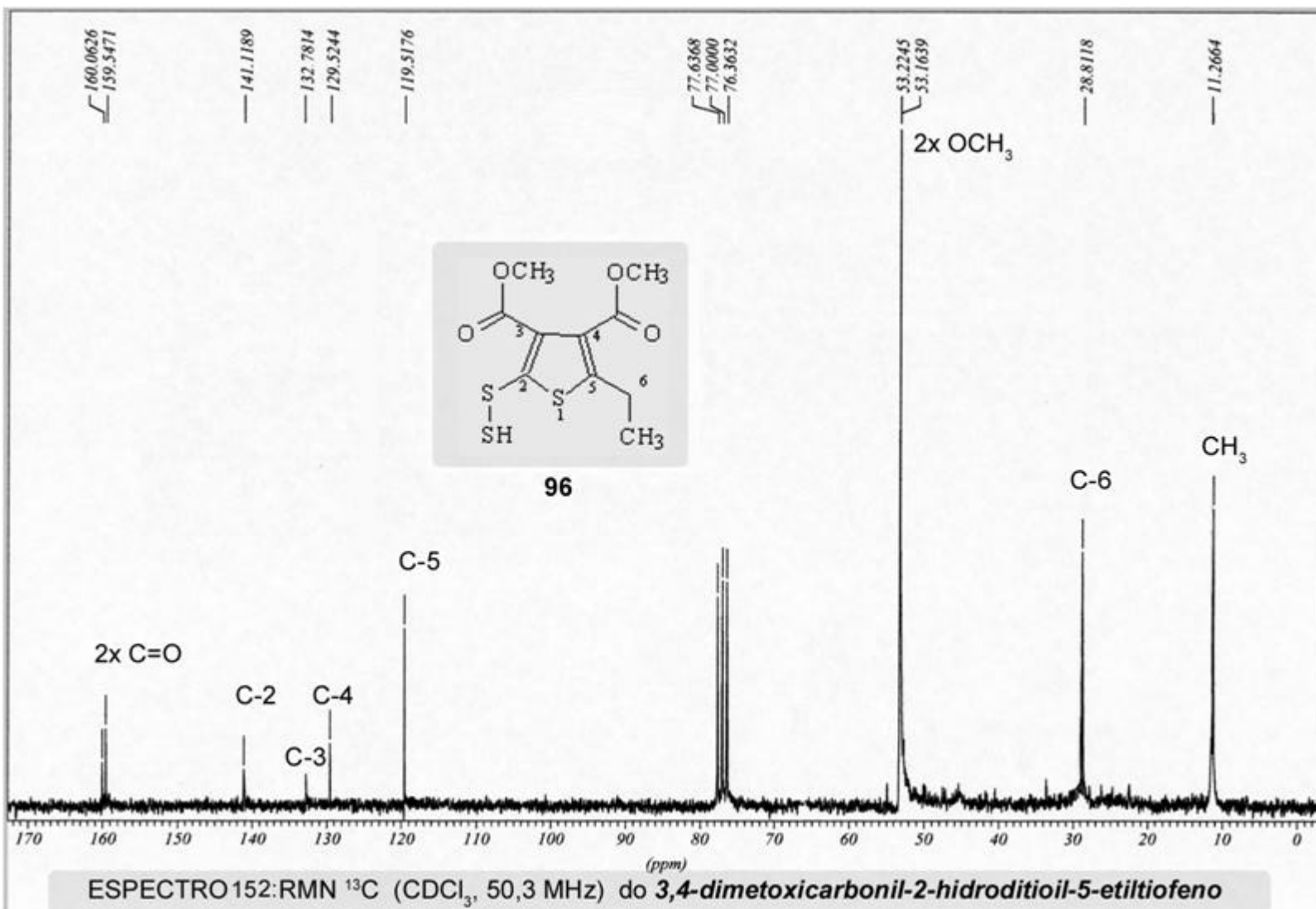


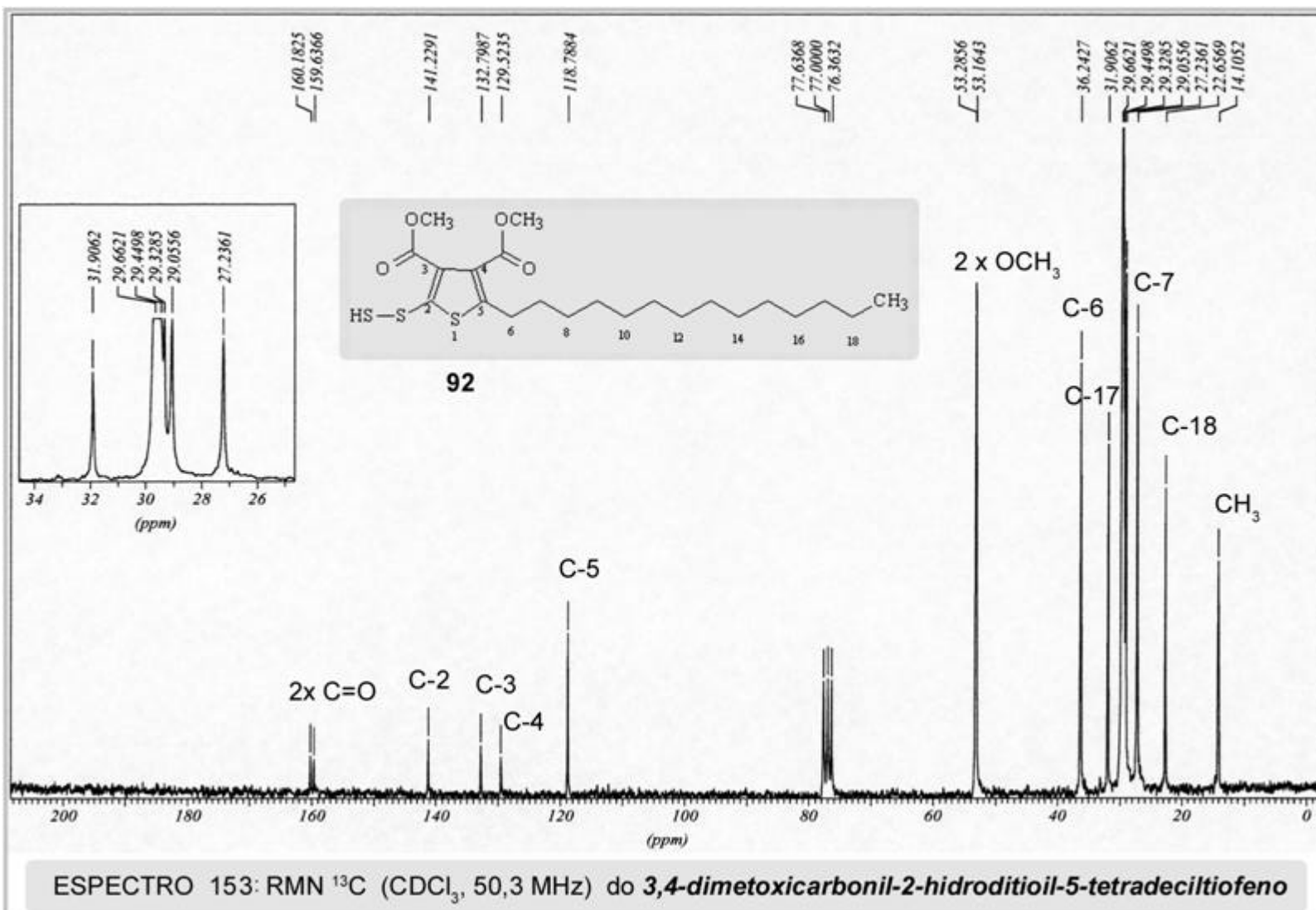


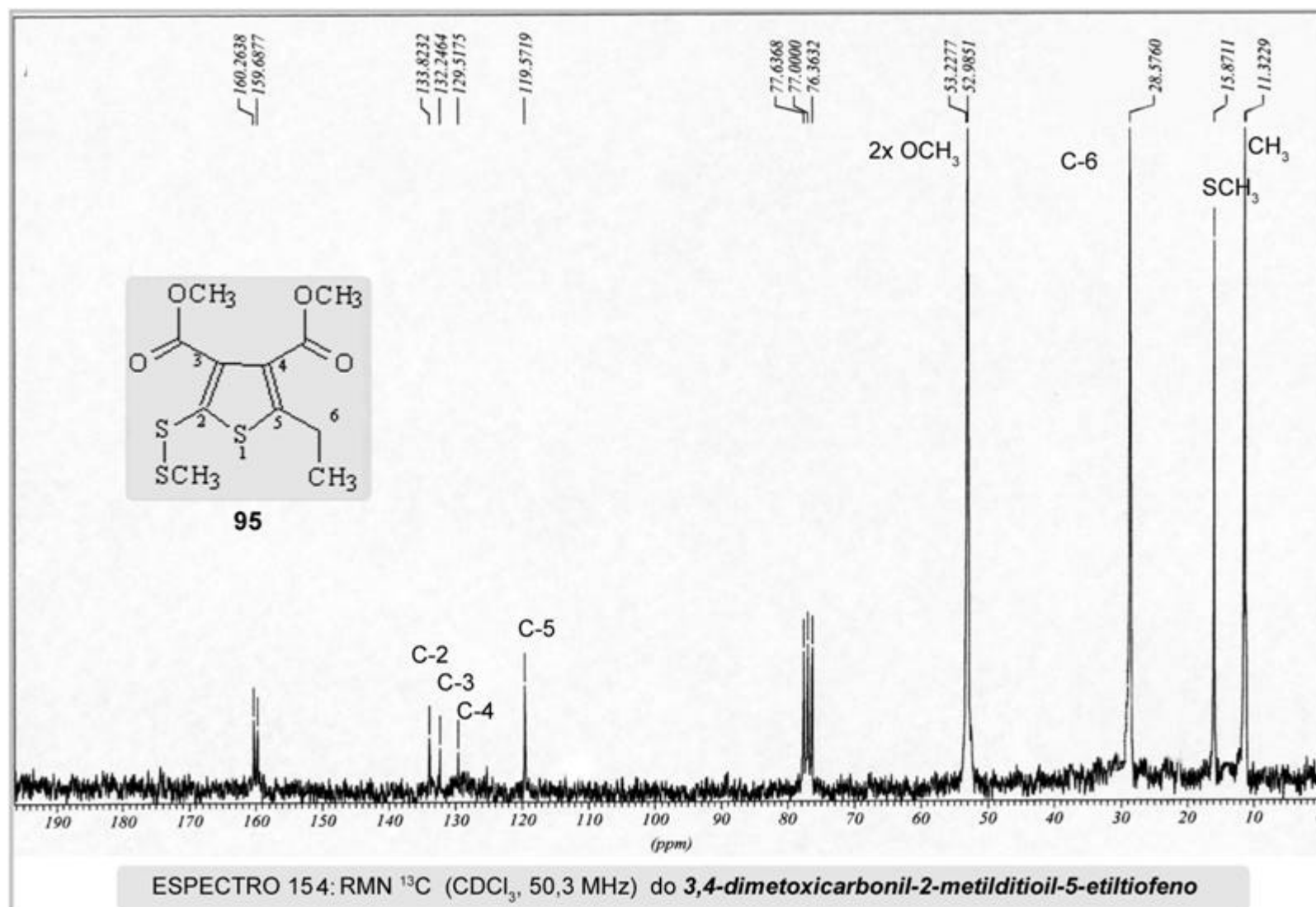


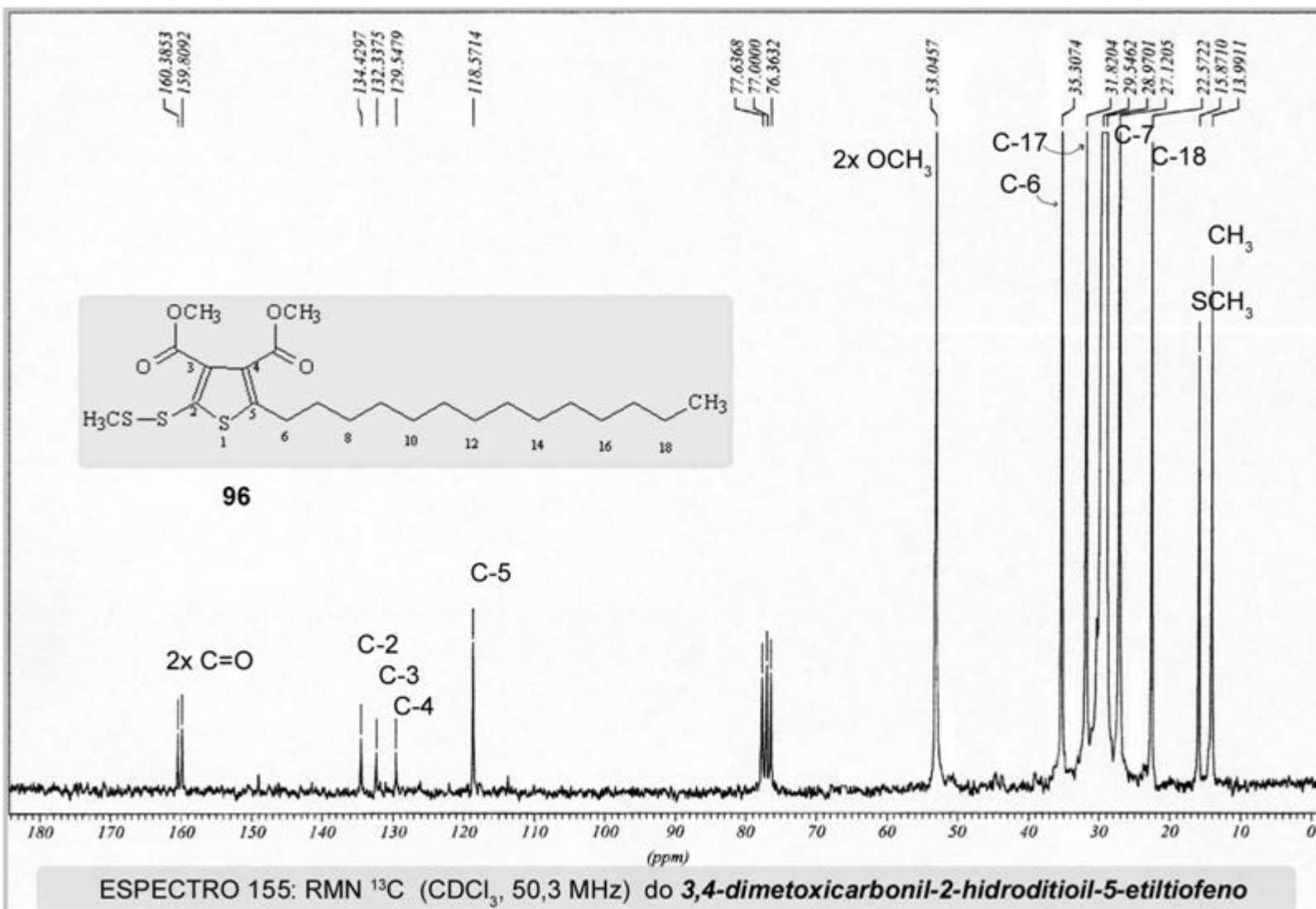
7.4 ESPECTROS DE RMN DE ^{13}C

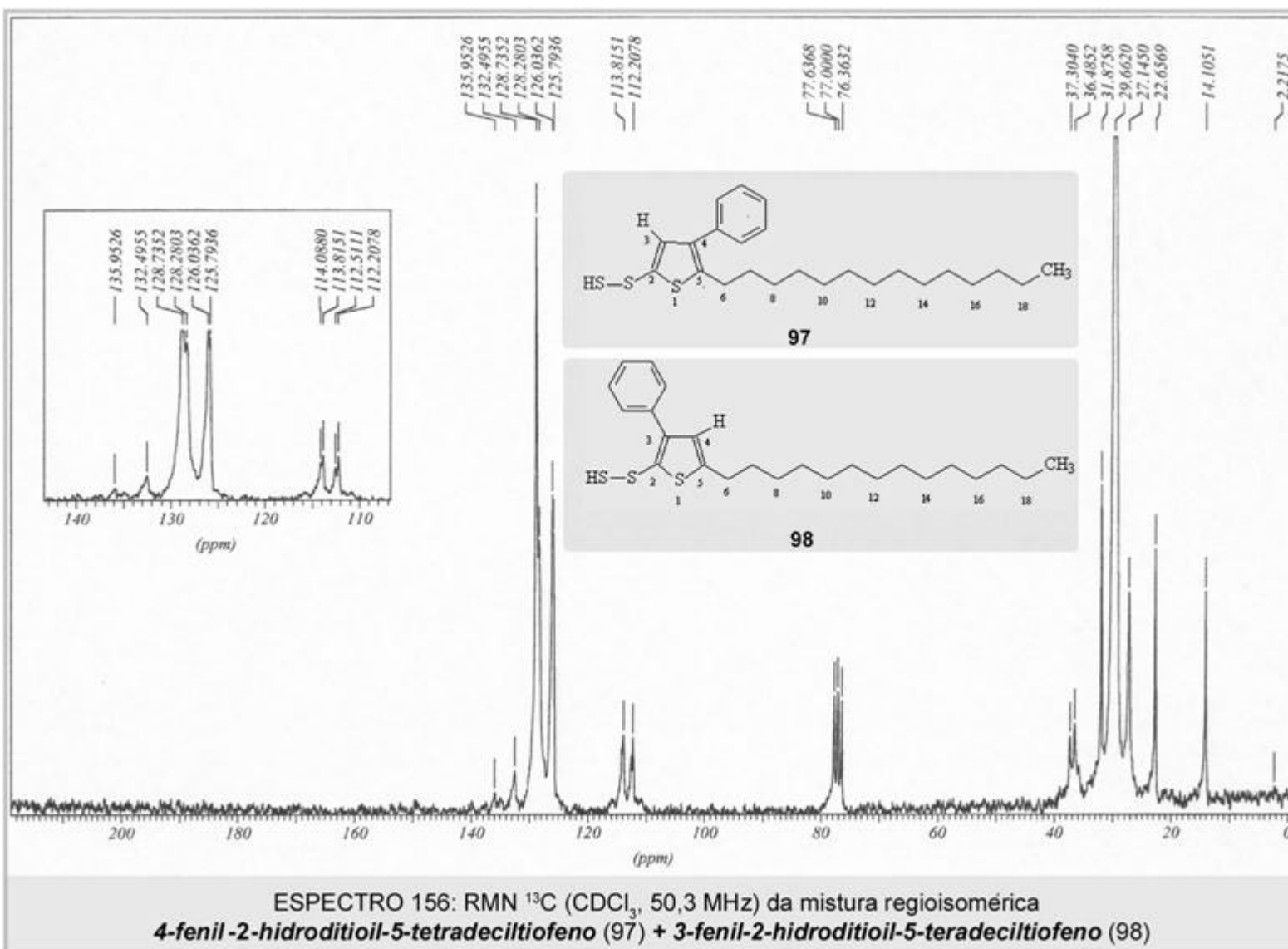
7.4.3 Produtos das reações de cicloadição 1,3-dipolar

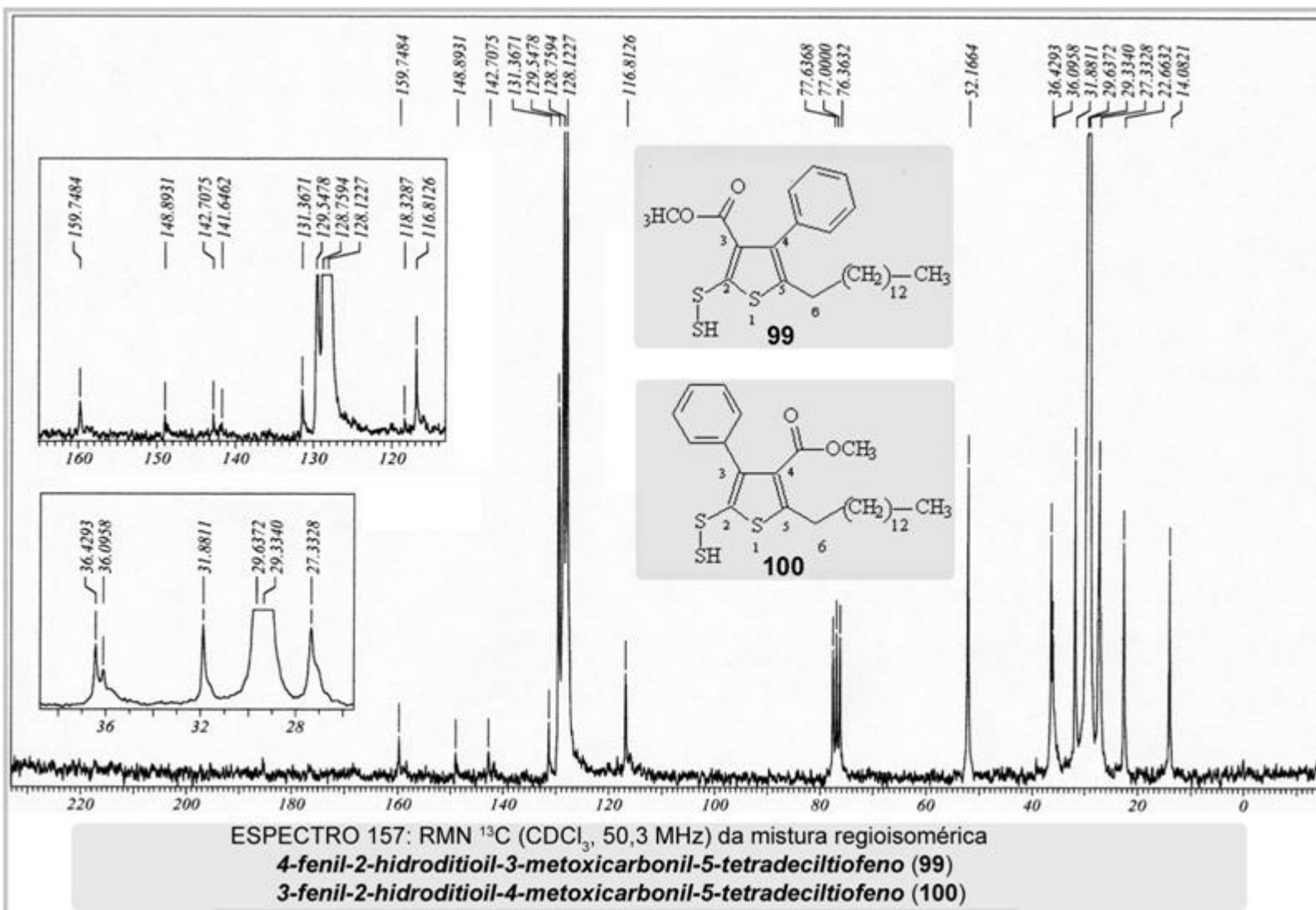




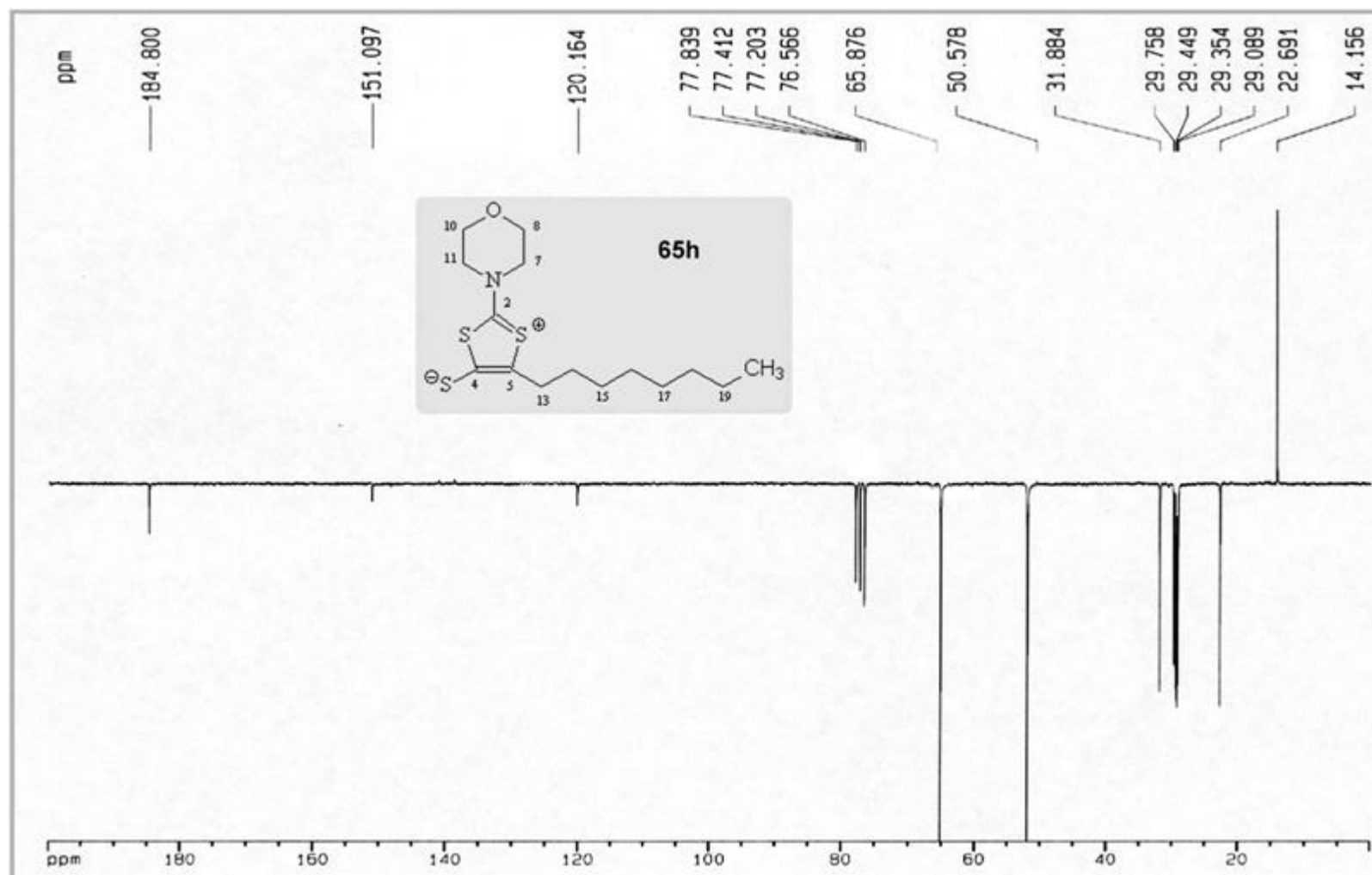




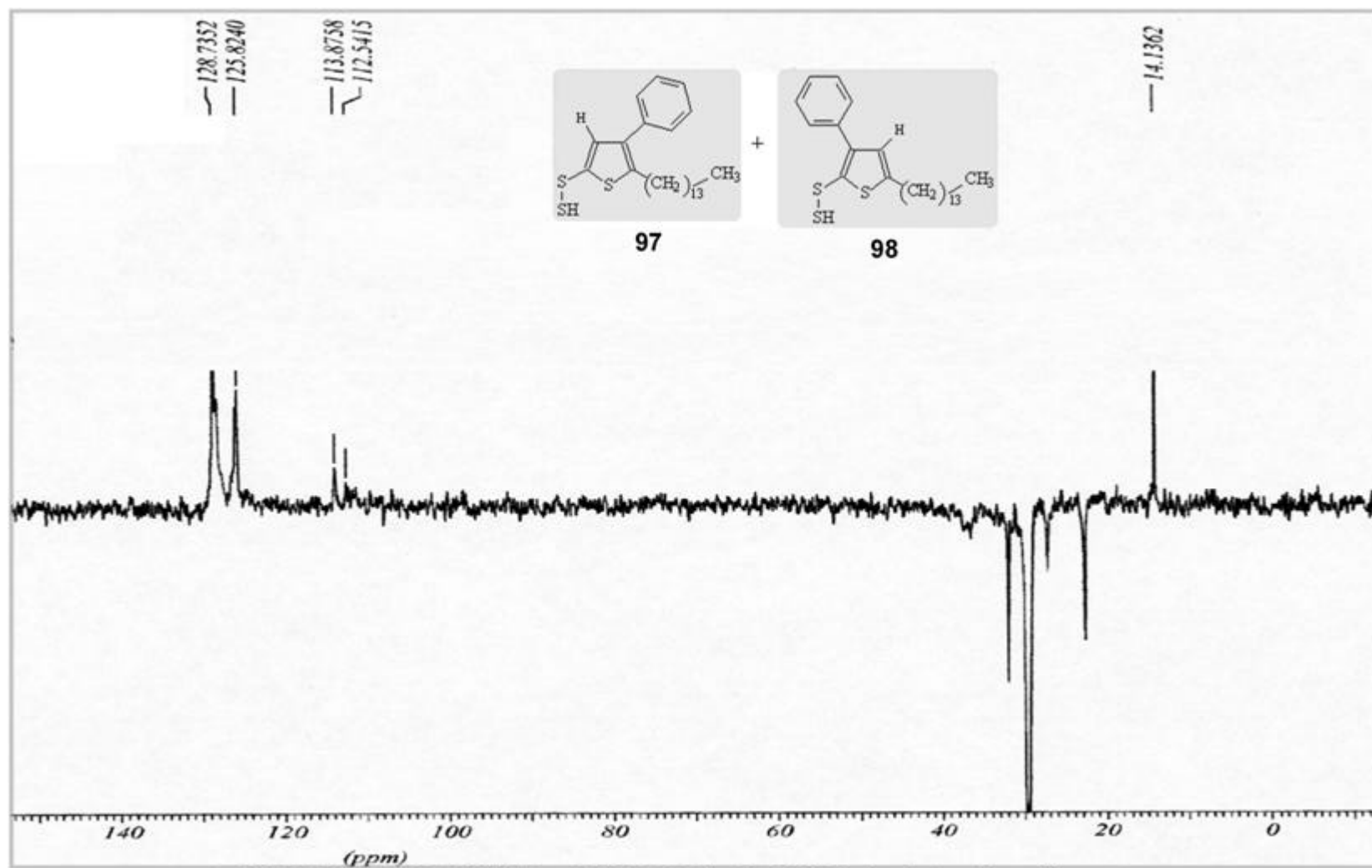




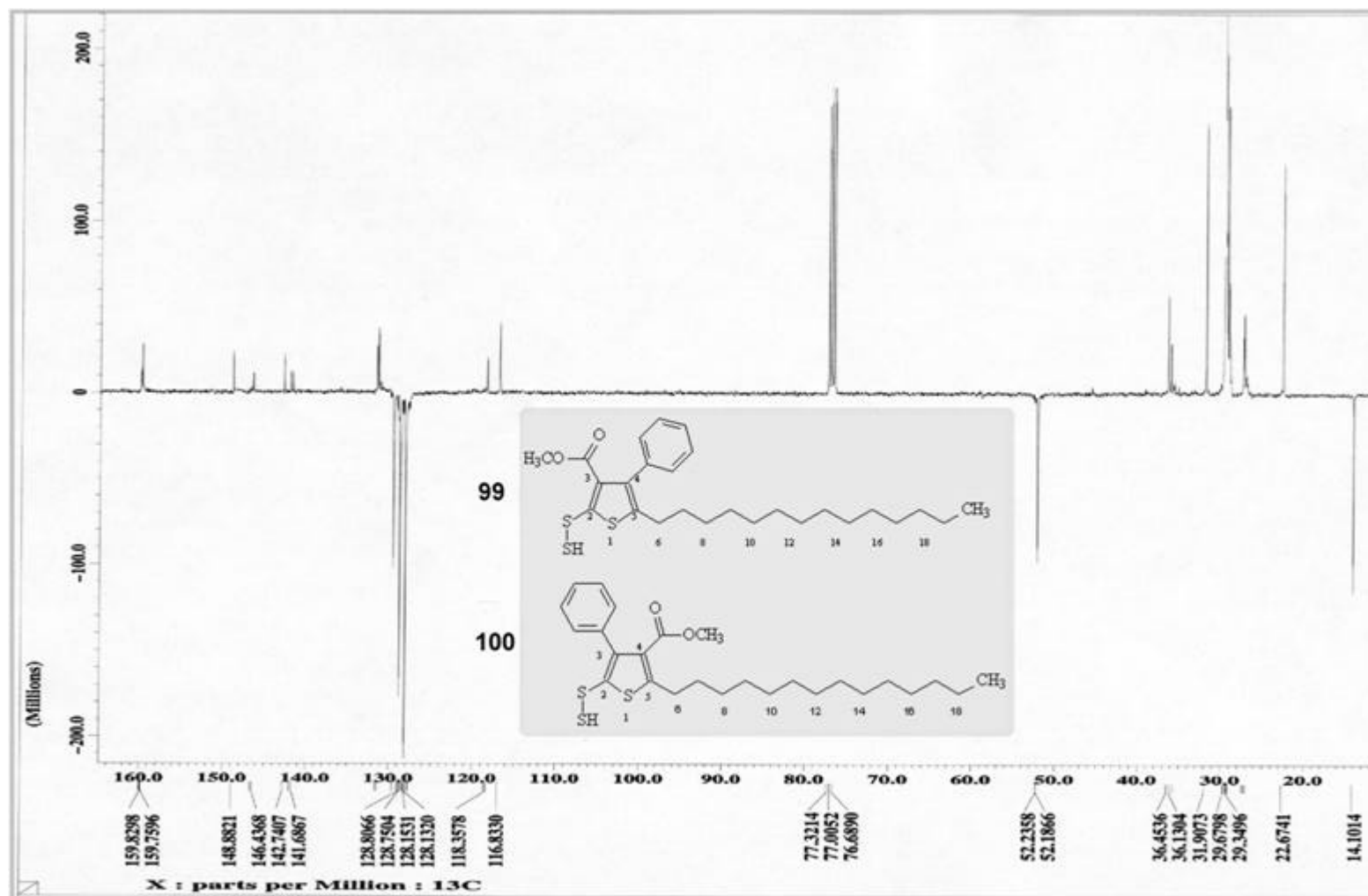
7.5 ESPECTROS DE RMN DE ^{13}C - DEPT



ESPECTRO 158: RMN ¹³C - PENDANT (CDCl₃, 50,3 MHz) **2-N-morfolino-5-octil-1,3-ditiólio-4-tiolato**



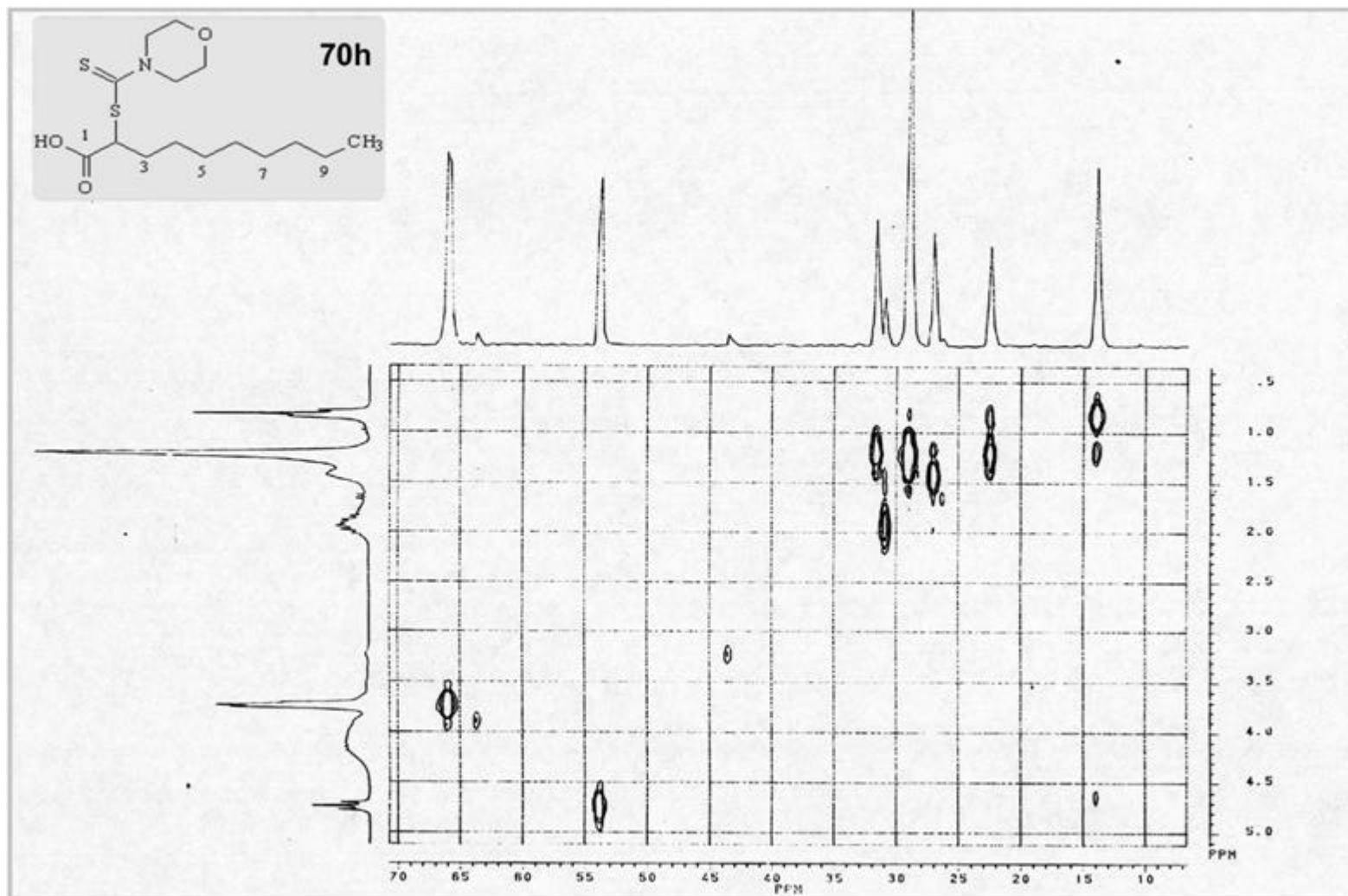
ESPECTRO 159: RMN ^{13}C - DEPT (CDCl_3 , 50,3 MHz) da mistura isomérica
4-fenil-2-hidroditiol-5-tetradeciltiofeno (97)
3-fenil-2-hidroditiol-5-tetradeciltiofeno (98)

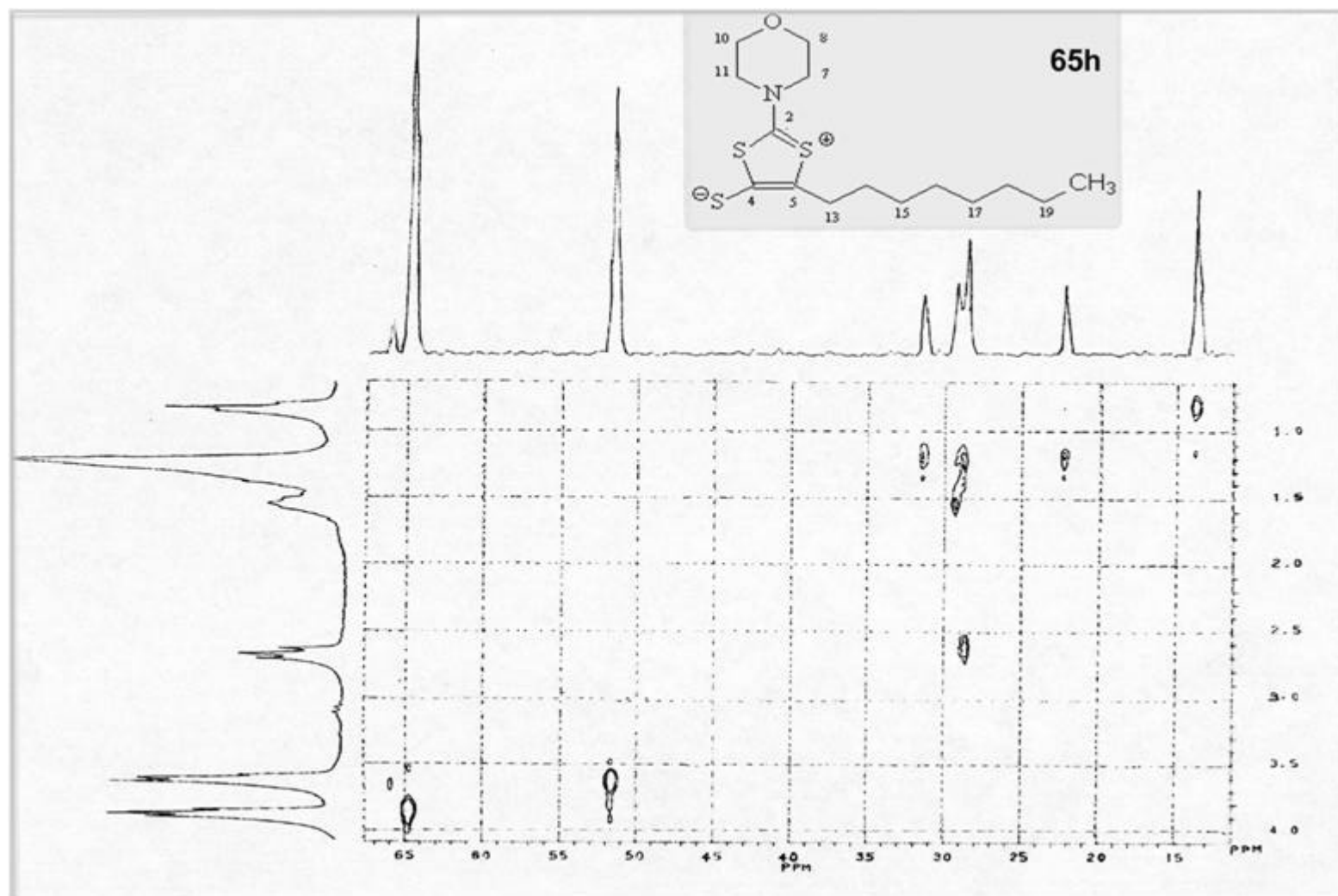


ESPECTRO 160: RMN ^{13}C - DEPT (CDCl_3 , 100,6 MHz) da mistura regioisomérica
4-fenil-2-hidroditioil-3-metoxicarbonil-5-tetradeciltiofeno (99)
3-fenil-2-hidroditioil-4-metoxicarbonil-5-tetradeciltiofeno (100)

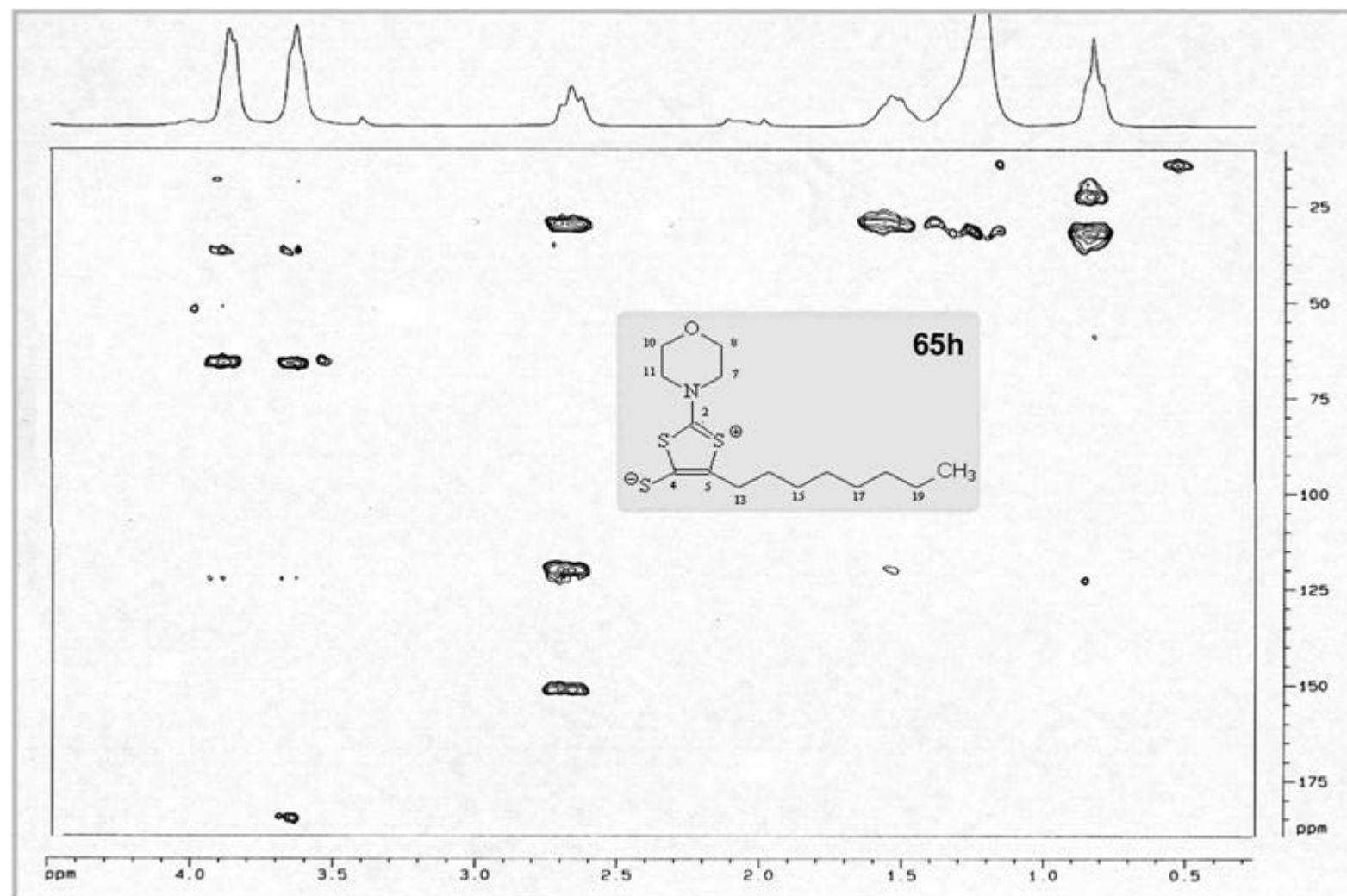
7.6 ESPECTROS DE RMN DE ^1H x ^{13}C

Experimentos Bidimensionais Heteronucleares

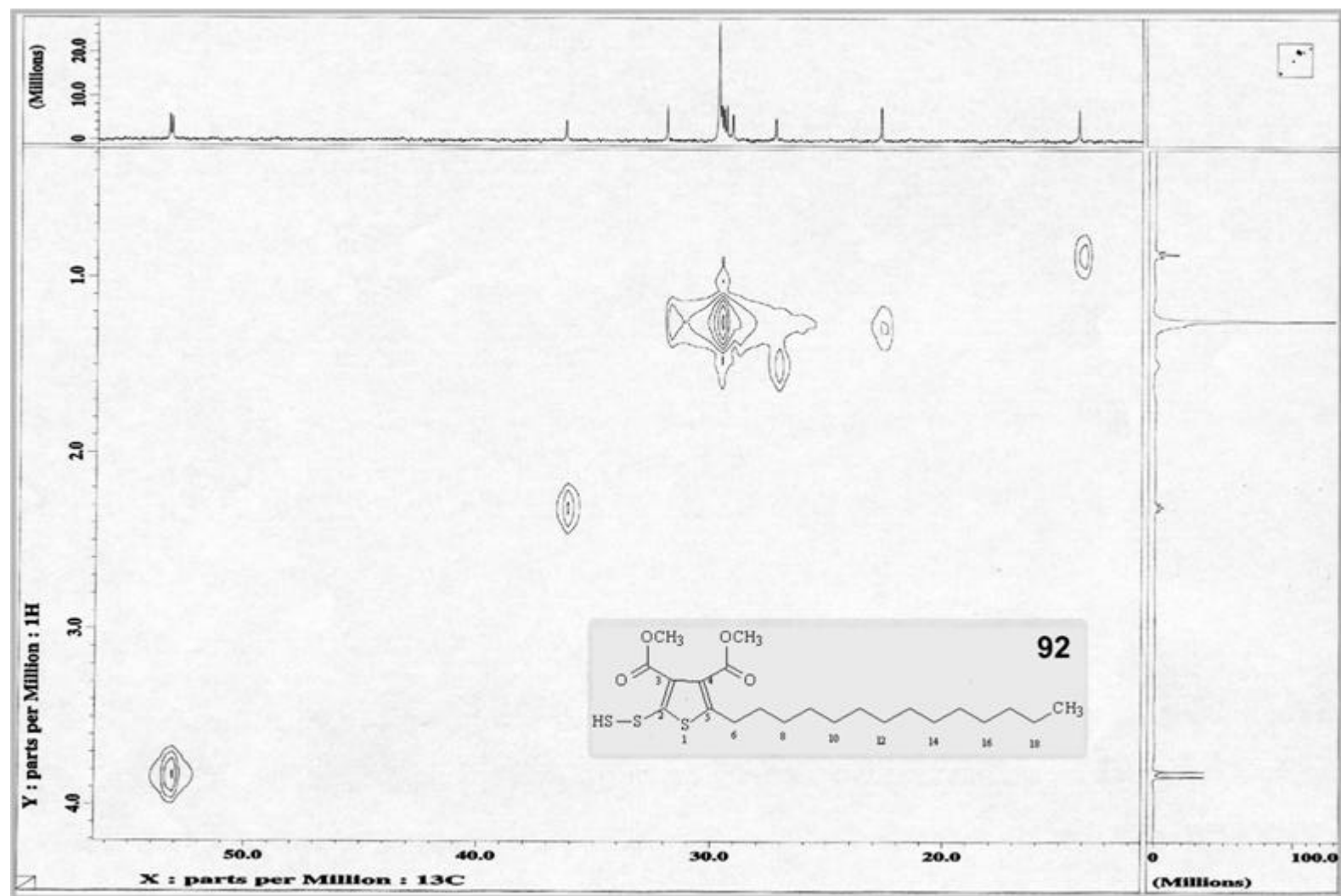




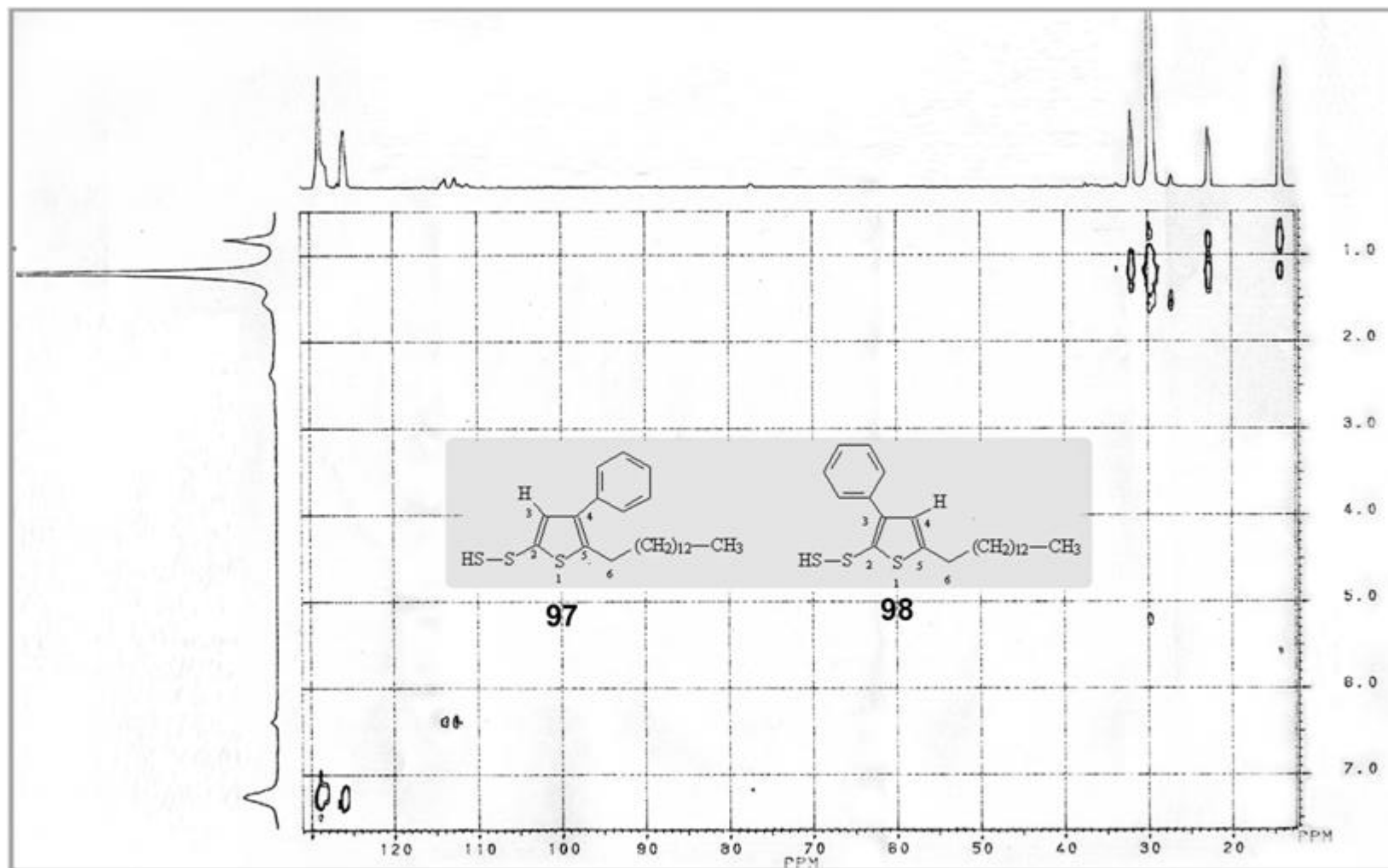
ESPECTRO 162 RMN ¹H X ¹³C - HETCOSY (CDCl₃, 200MHz) do
2-N-morfolino-5-octil-1,3-ditiólio-4-tiolato



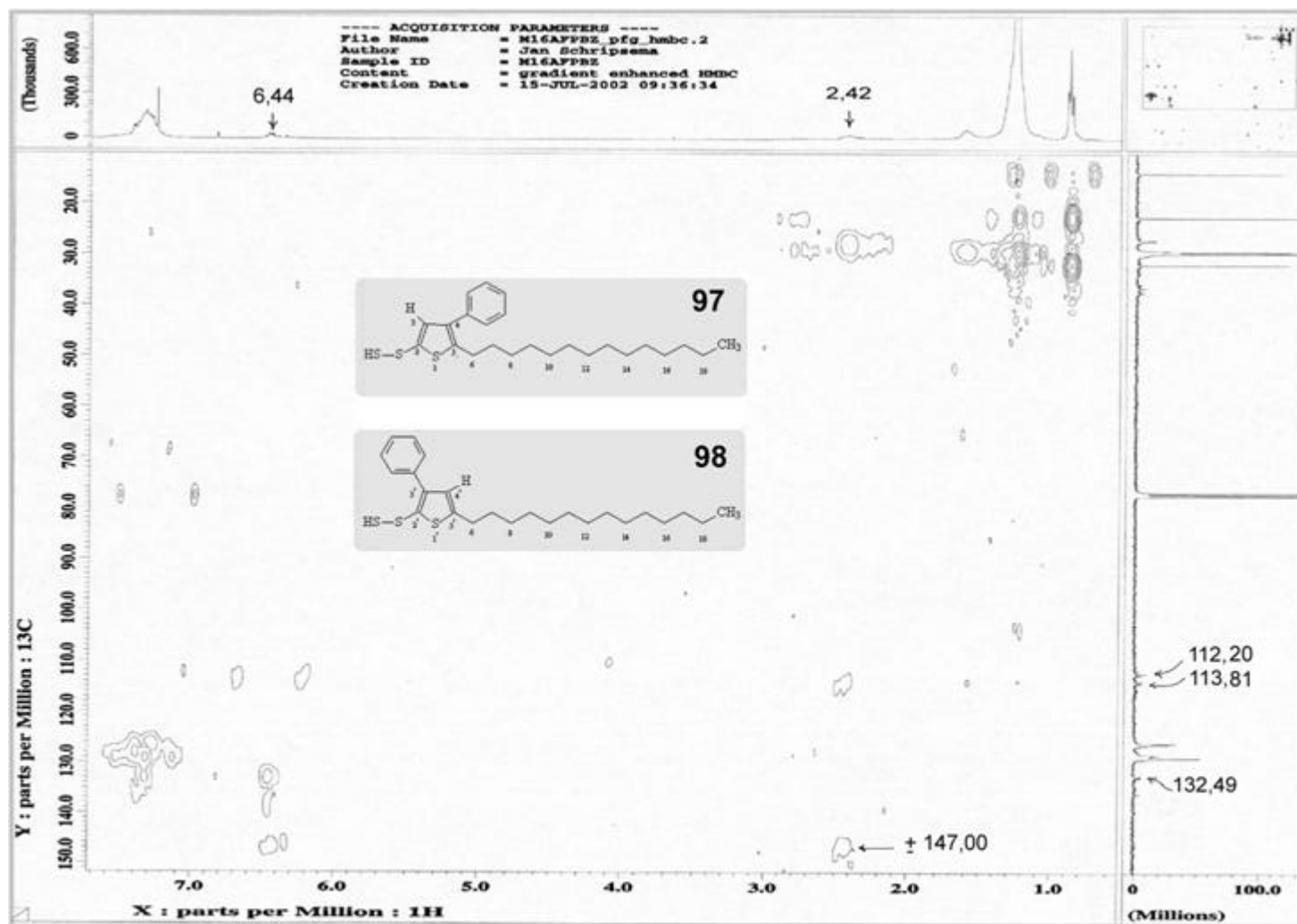
ESPECTRO 163:RMN ^1H X ^{13}C - COLOC (CDCl_3 , 200MHz) do
2-N-morfolino-5-octil-1,3-ditiólio-4-tiolato



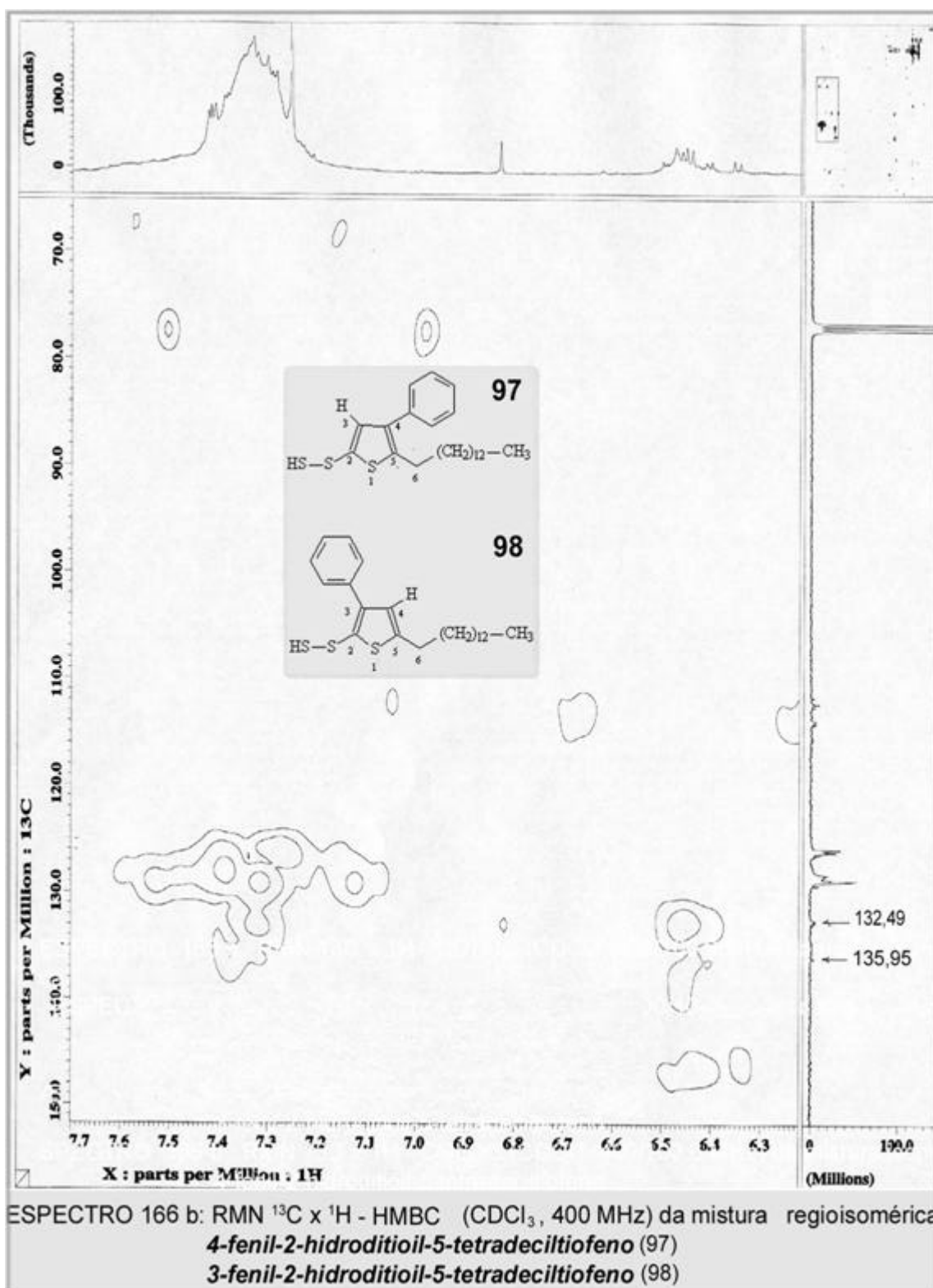
ESPECTRO 164: RMN ^1H X ^{13}C - $^1\text{J}_{\text{CH}}$ - HMQC (CDCl_3 , 400MHz) do
3,4-dimetoxicarbonil-2-hidroditioil-5-tetradeciltiofeno

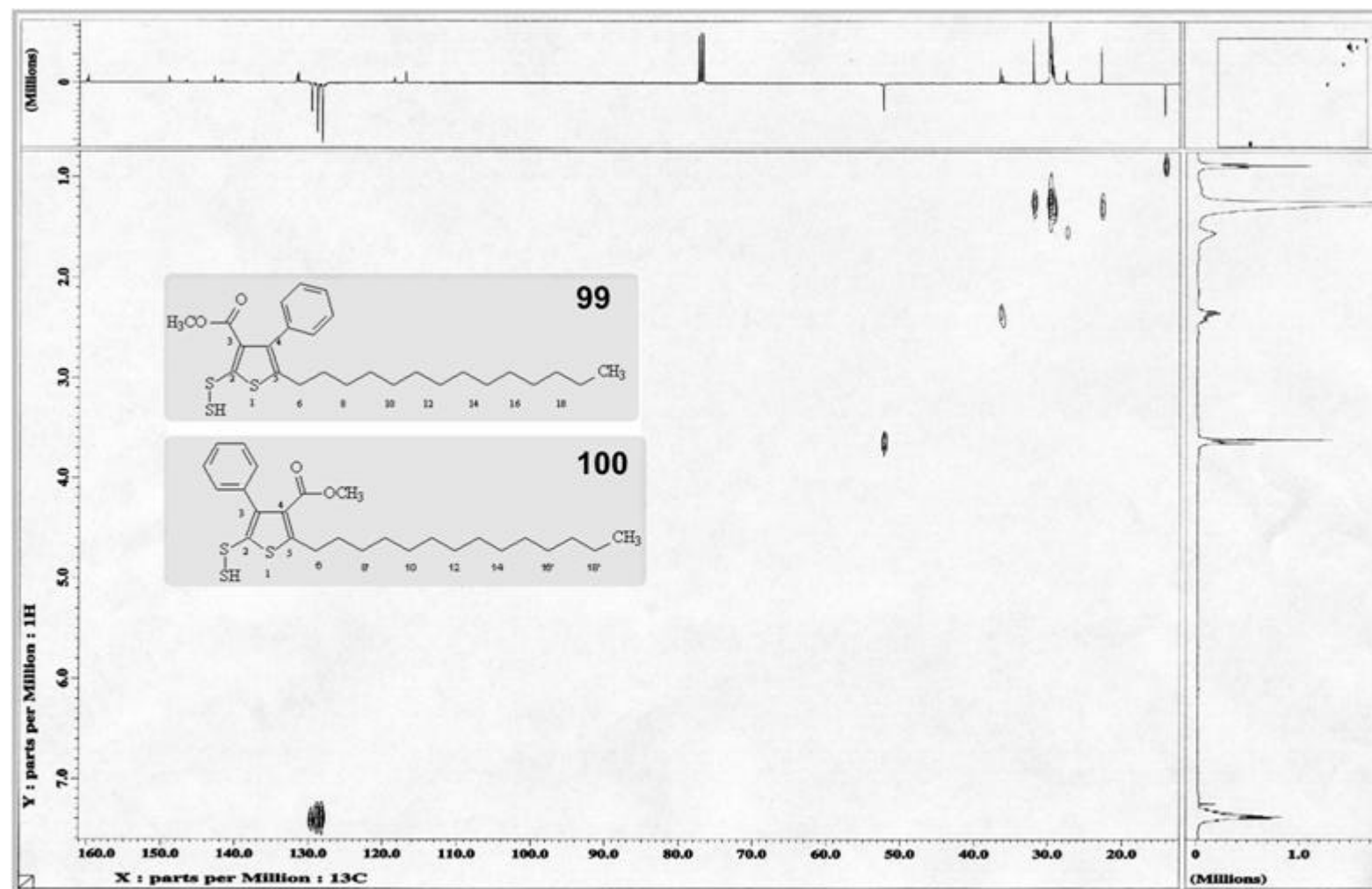


ESPECTRO 165: RMN $^{13}\text{C} \times ^1\text{H}$ - HETCOSY (CDCl_3 , 200 MHz) da mistura regioisomérica
4-fenil-2-hidroditioil-5-tetradeciltiofeno (97)
3-fenil-2-hidroditioil-5-tetradeciltiofeno (98)

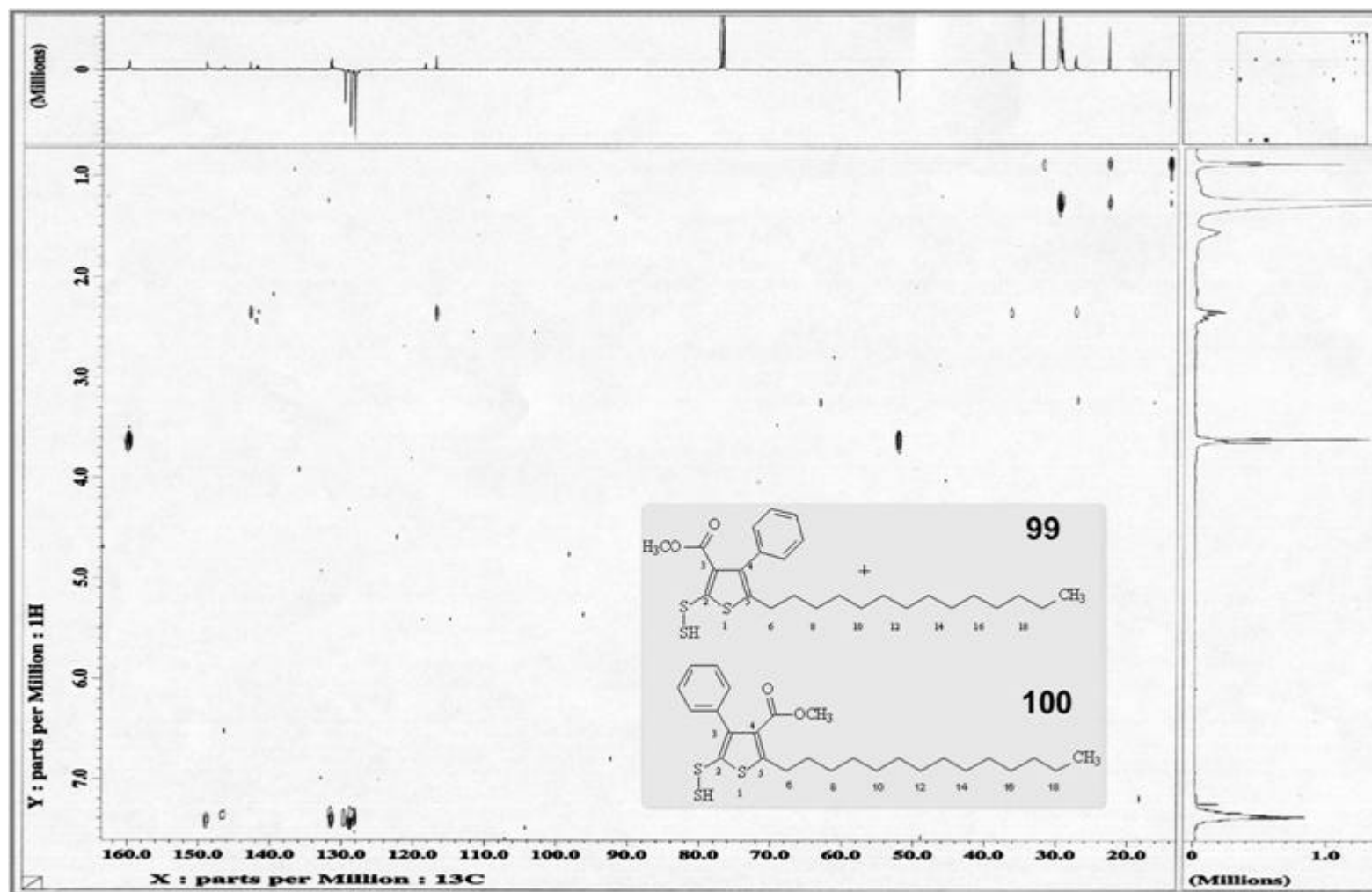


ESPECTRO 166 a: RMN $^{13}\text{C} \times ^1\text{H}$ - COLOC - (CDCl_3 , 400/100,6 MHz) da mistura regioisomérica
 4-fenil-2-hidroditioil-5-tetradeciltiofeno (97)
 3-fenil-2-hidroditioil-5-tetradeciltiofeno (98)



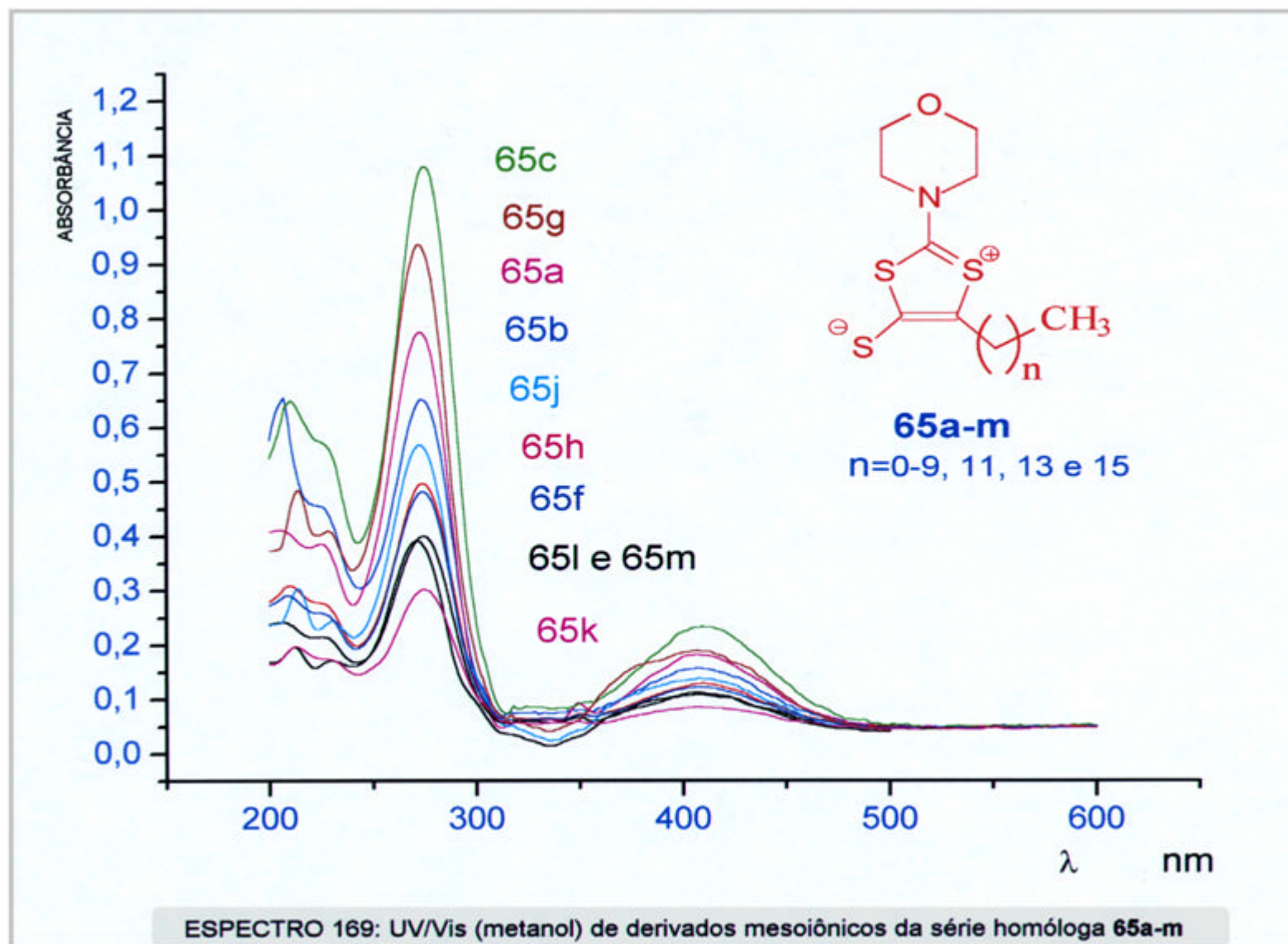


ESPECTRO 167 : RMN ^1H X ^{13}C - $^1J_{\text{CH}}$ -HMQC (CDCl_3 , 400 MHz) da mistura regioisomérica
 4-fenil-2-hidroditioil-3-metoxicarbonil-5-tetradeciltiofeno (99)
 3-fenil-2-hidroditioil-4-metoxicarbonil-5-tetradeciltiofeno (100)

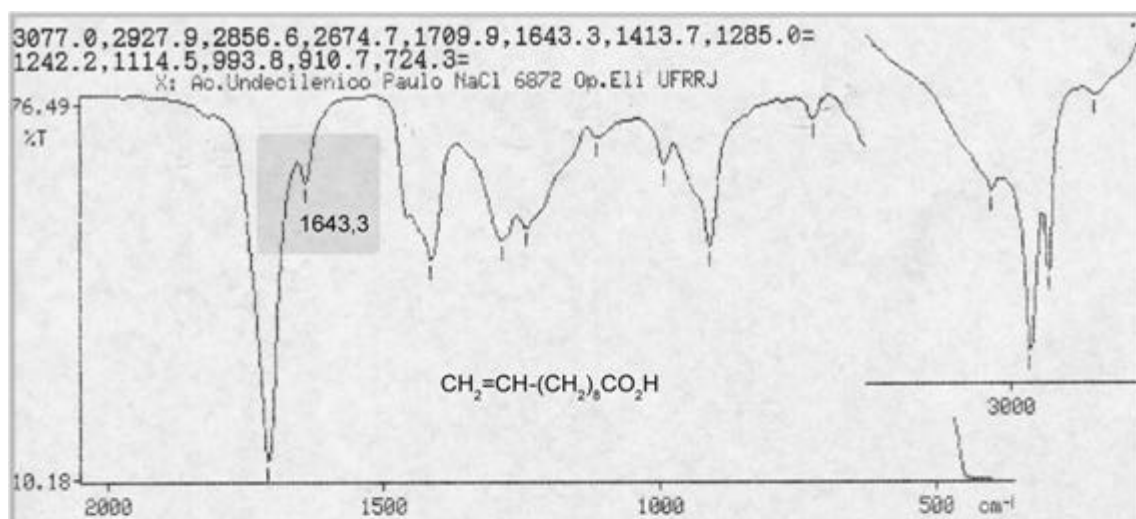
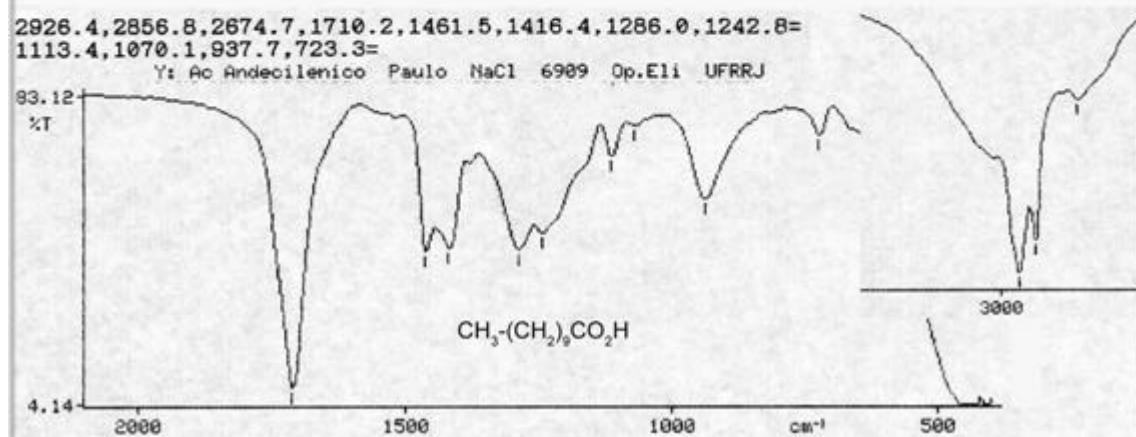


ESPECTRO 168: RMN ^1H X ^{13}C - $^n\text{J}_{\text{CH}}$ - $n=2,3$ - HMBC - (CDCl_3 , 400 MHz) da mistura regioisomérica
4-fenil-2-hidroditioil-3-metoxicarbonil-5-tetradeciltiofeno (99)
3-fenil-2-hidroditioil-4-metoxicarbonil-5-tetradeciltiofeno (100)

7.7 ESPECTROS DE ULTRAVIOLETA DOS DERIVADOS MESOIÔNICOS DA SÉRIE HOMÓLOGA



7.8 ESPECTROS DE CONFIRMAÇÃO DAS REAÇÕES COMPLEMENTARES

ESPECTRO170a: I V (NaCl) do *ácido undecilênico*ESPECTRO170b: I V (NaCl) do *ácido undecanóico*

