

Figura 146. Espectro de RMN ^1H do 5-metoxicarbonil-3-[2-tienil]-1H-pirazol (**18b**) em CDCl_3 .

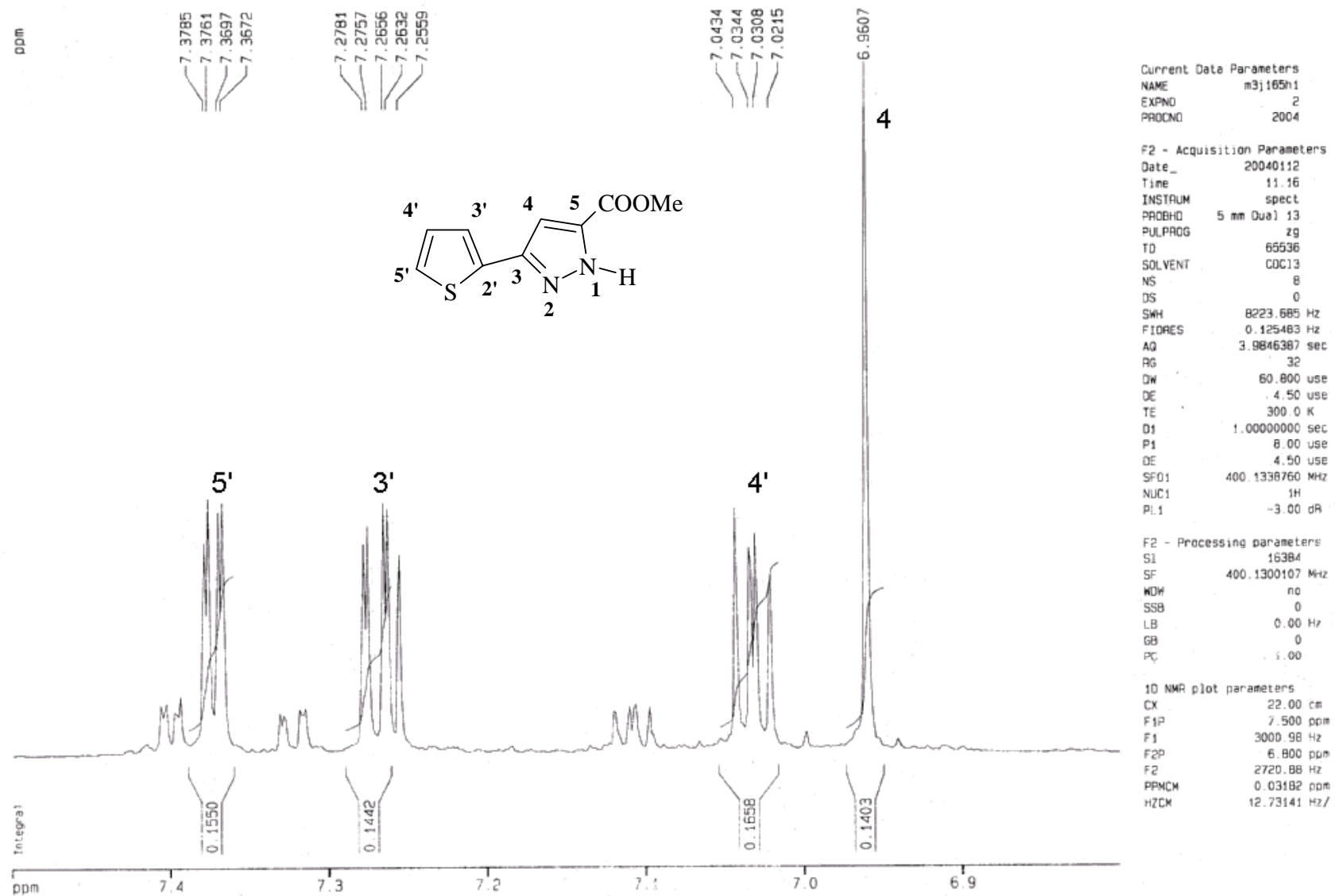


Figura 147. Espectro de RMN ^1H , expansão entre 6,9-7,4 ppm do 5-metoxicarbonil-3-[2-tienil]-1H-pirazol (**18b**) em CDCl_3 .

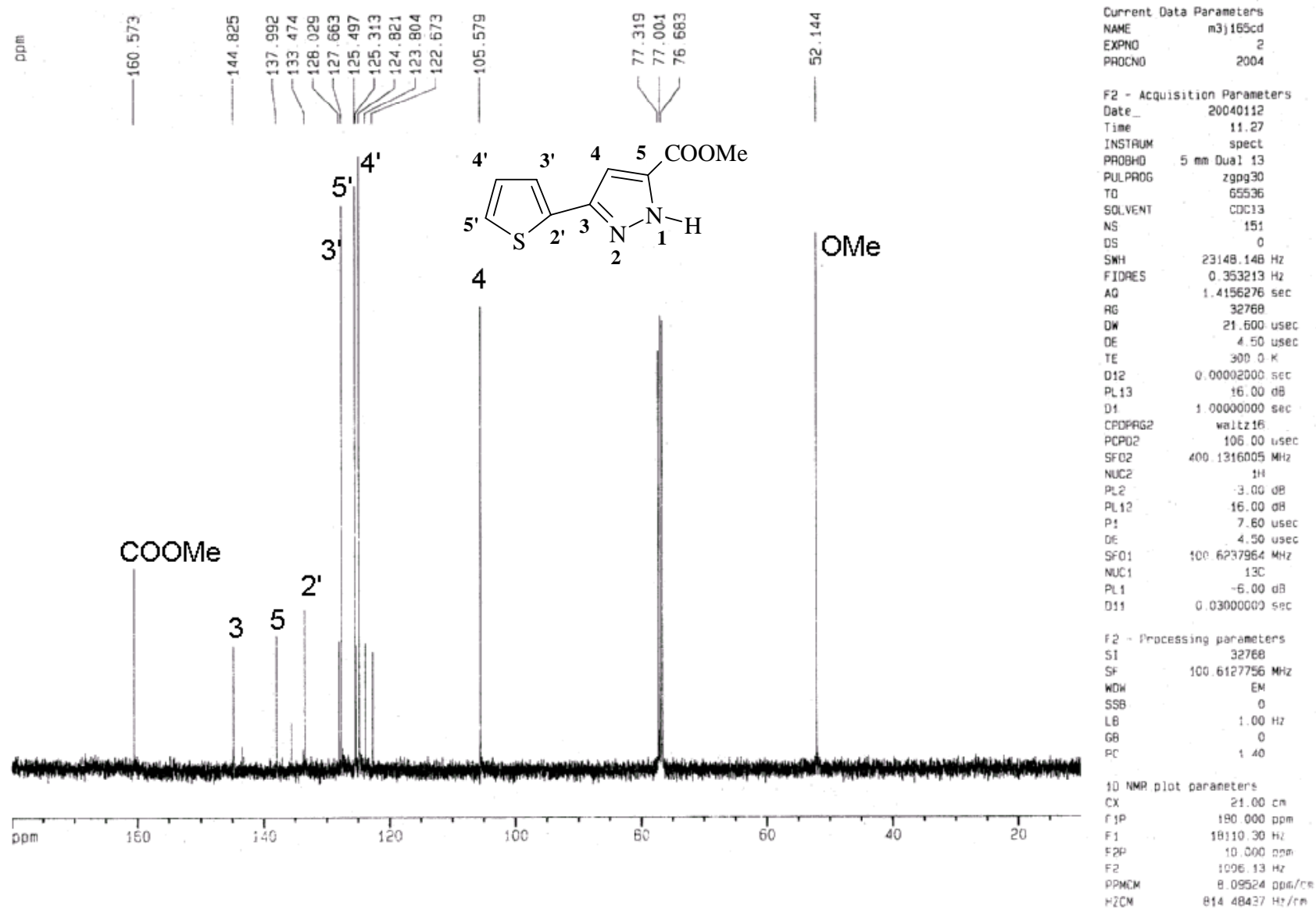


Figura 148. Espectro de RMN ^{13}C do 5-metoxicarbonil-3-[2-tienil]-1H-pirazol (**18b**) em CDCl_3 .

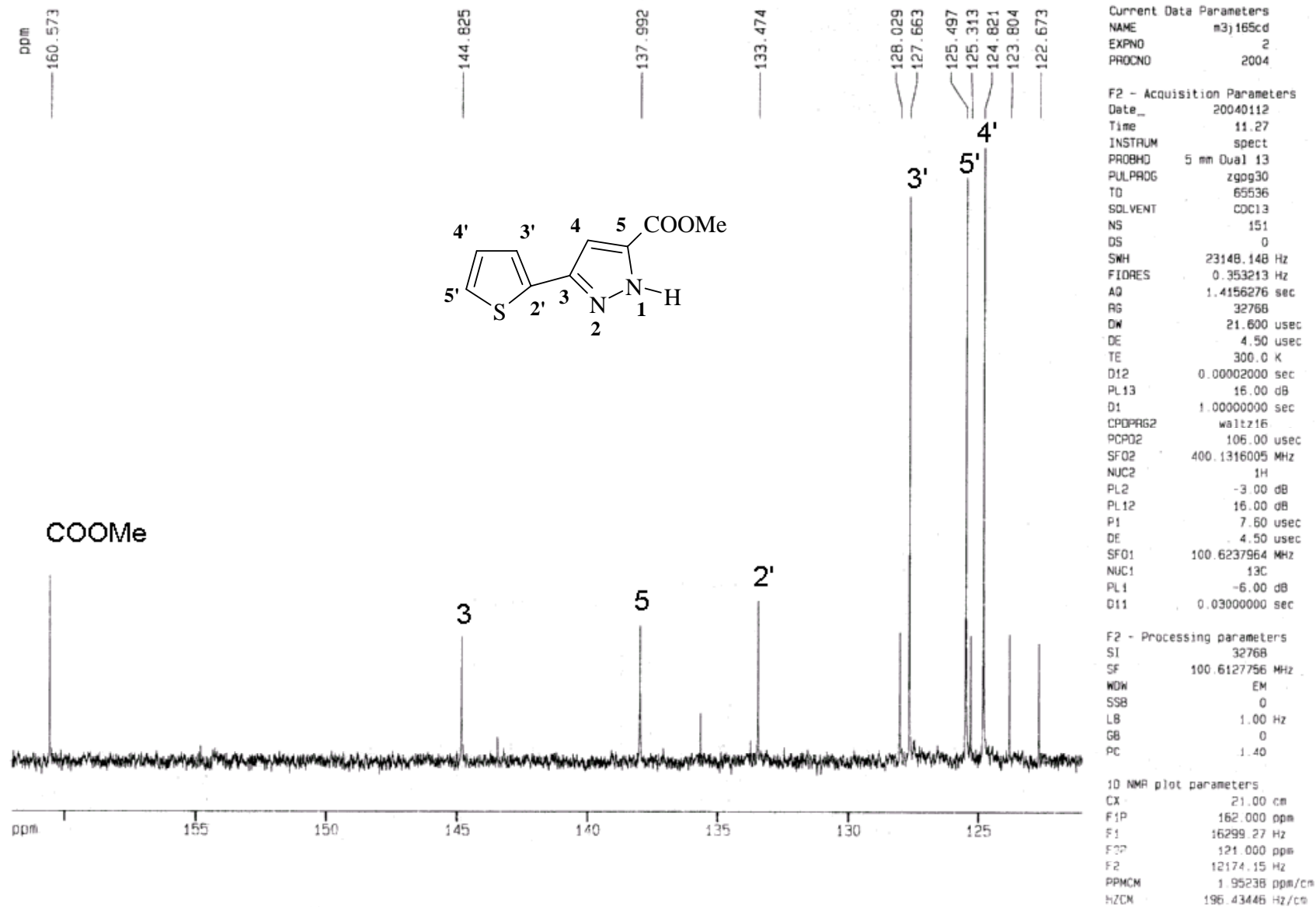


Figura 149. Espectro de RMN ^{13}C , expansão entre 125-155 ppm do 5-metoxicarbonil-3-[2-tienil]-1H-pirazol (**18b**) em CDCl_3 .

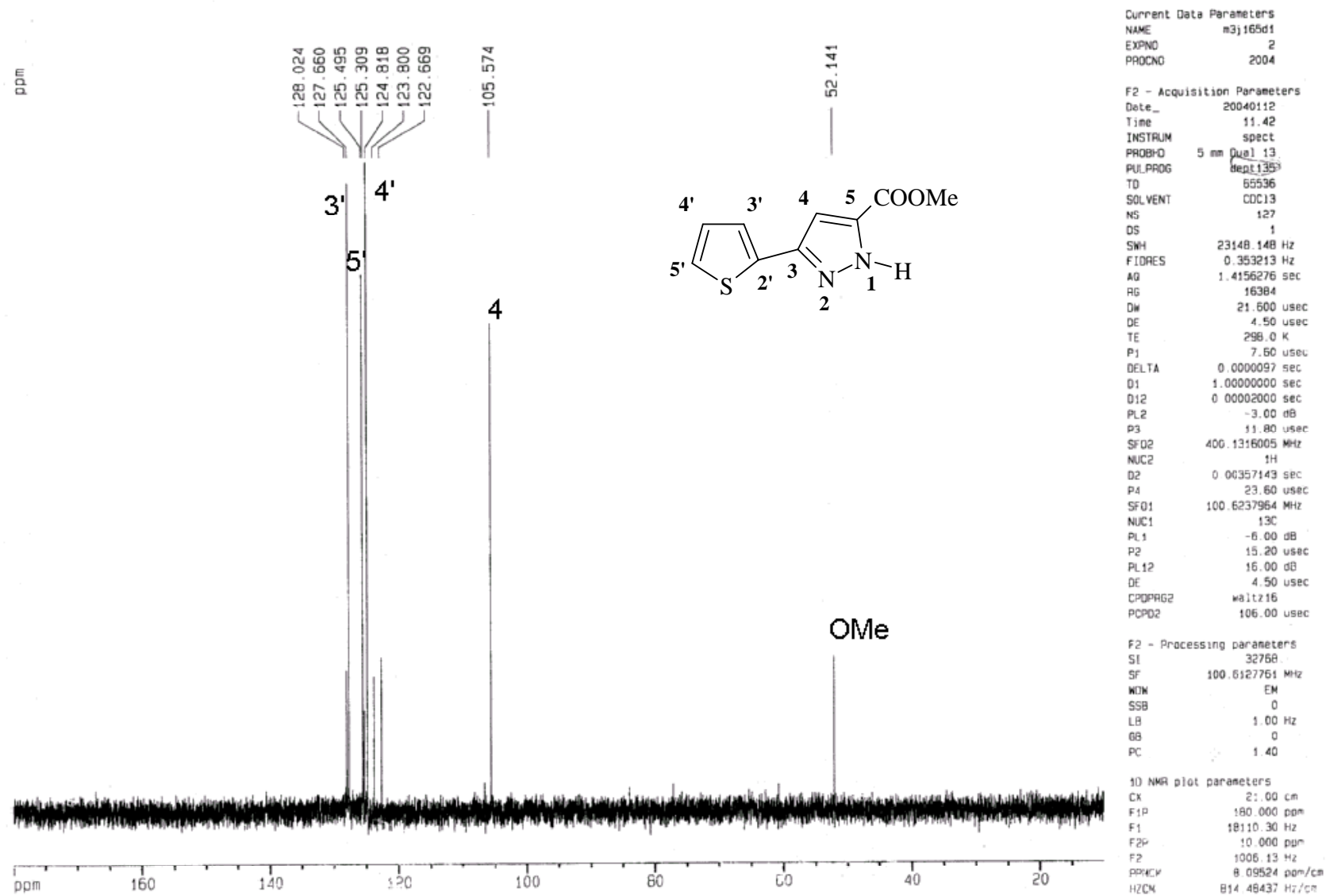


Figura 150. Espectro de RMN (DEPT 135) do 5-metoxicarbonil-3-[2-tienil]-1H-pirazol (**18b**) em CDCl₃.

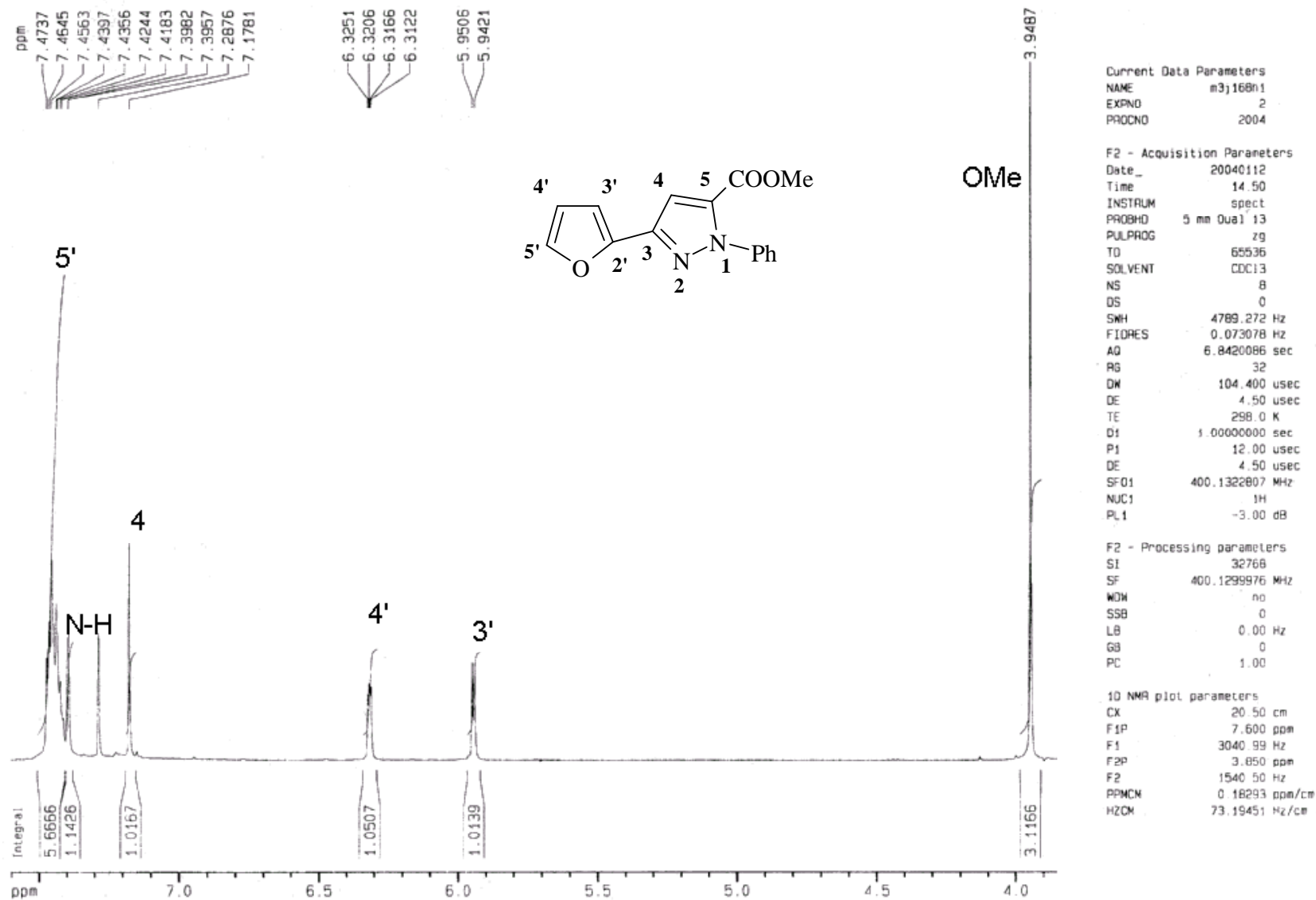


Figura 151. Espectro de RMN ^1H do 5-metoxicarbonil-1-fenil-3-[2-furil]-1H-pirazol (**19a**) em CDCl_3 .

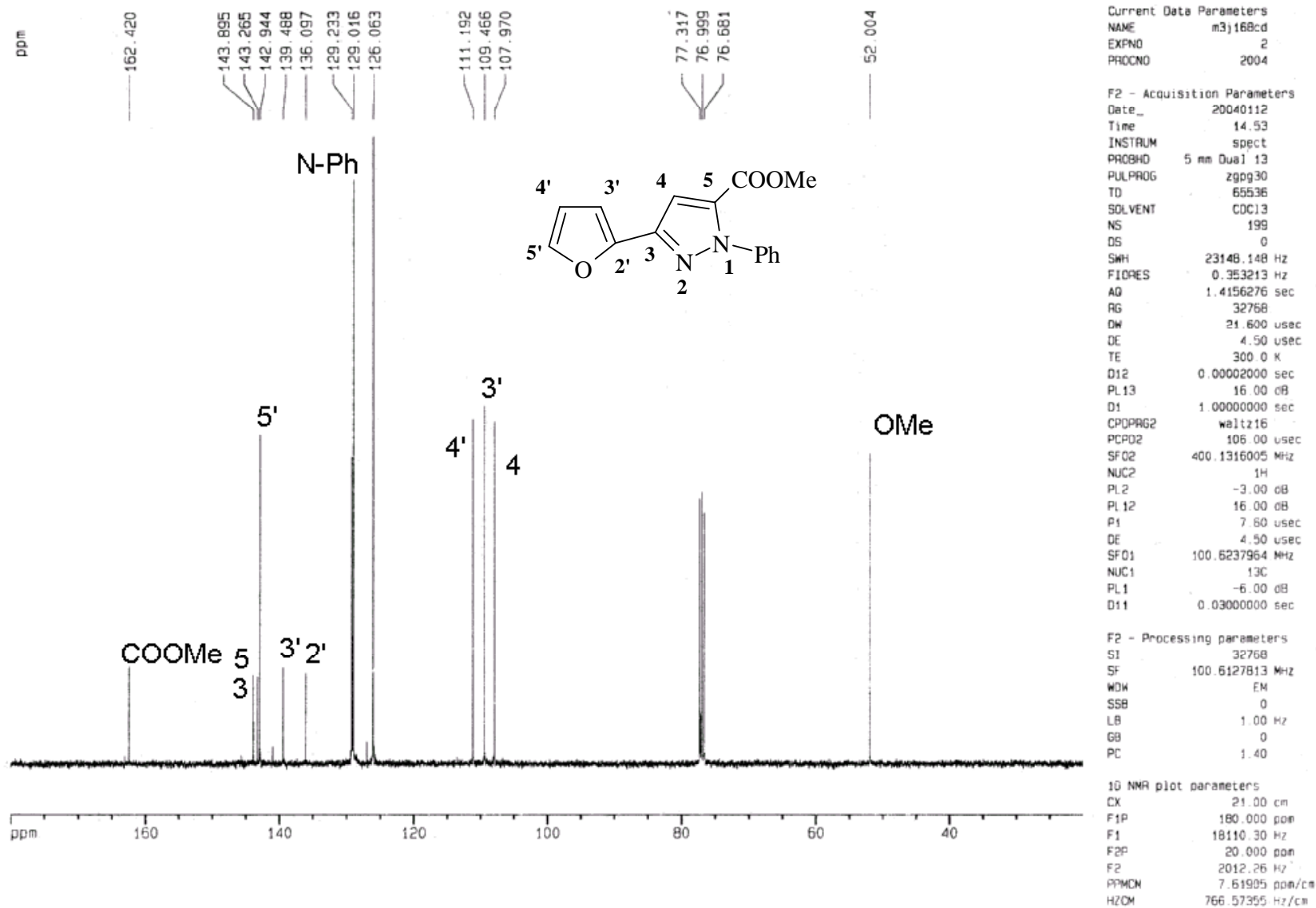


Figura 152. Espectro de RMN ^{13}C do 5-metoxicarbonil-1-fenil-3-[2-furil]-1H-pirazol (**19a**) em CDCl_3 .

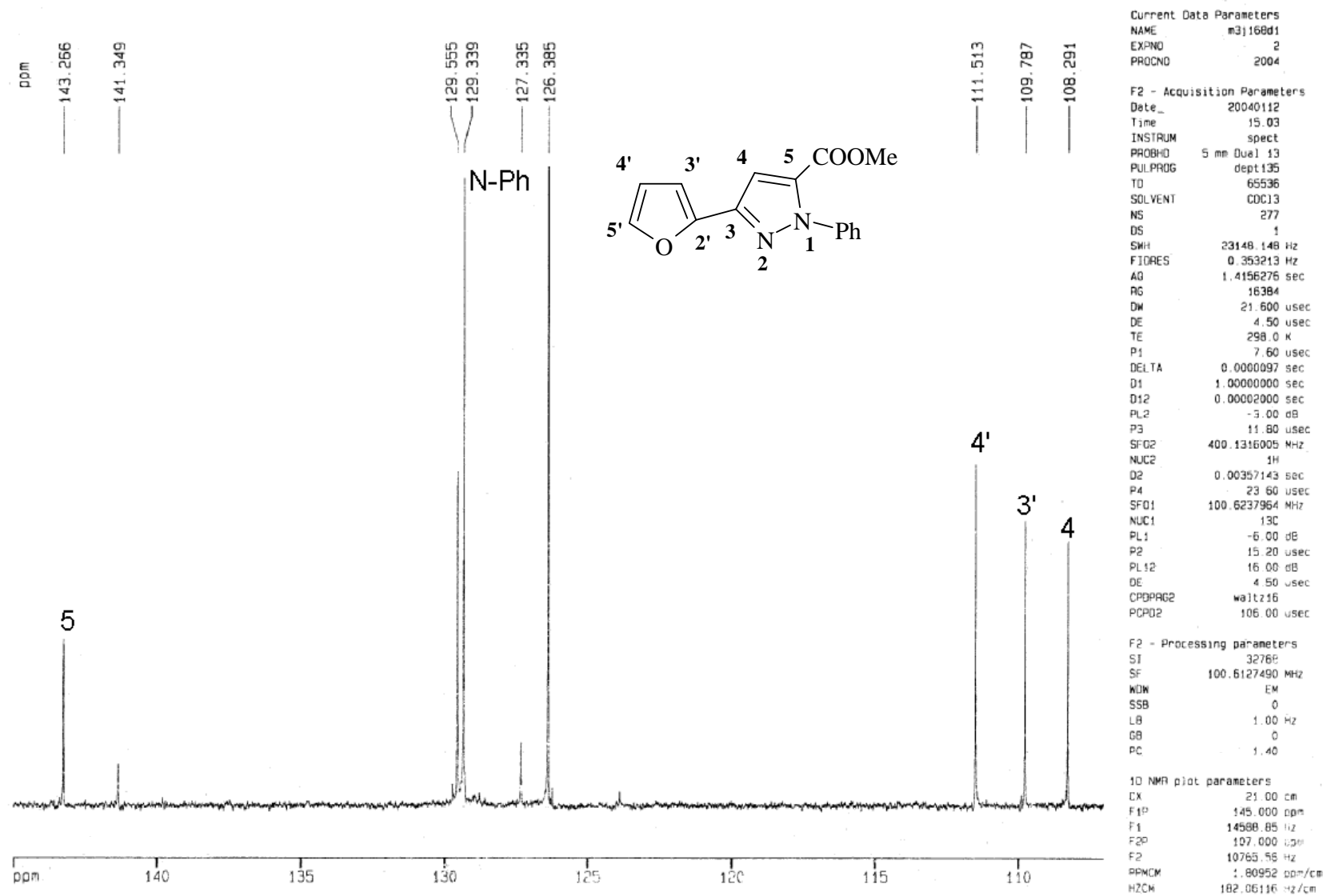


Figura 153. Espectro de RMN ^{13}C , expansão entre 110-140 do 5-metoxicarbonil-1-fenil-3-[2-furil]-1H-pirazol (**19a**) em CDCl_3 .

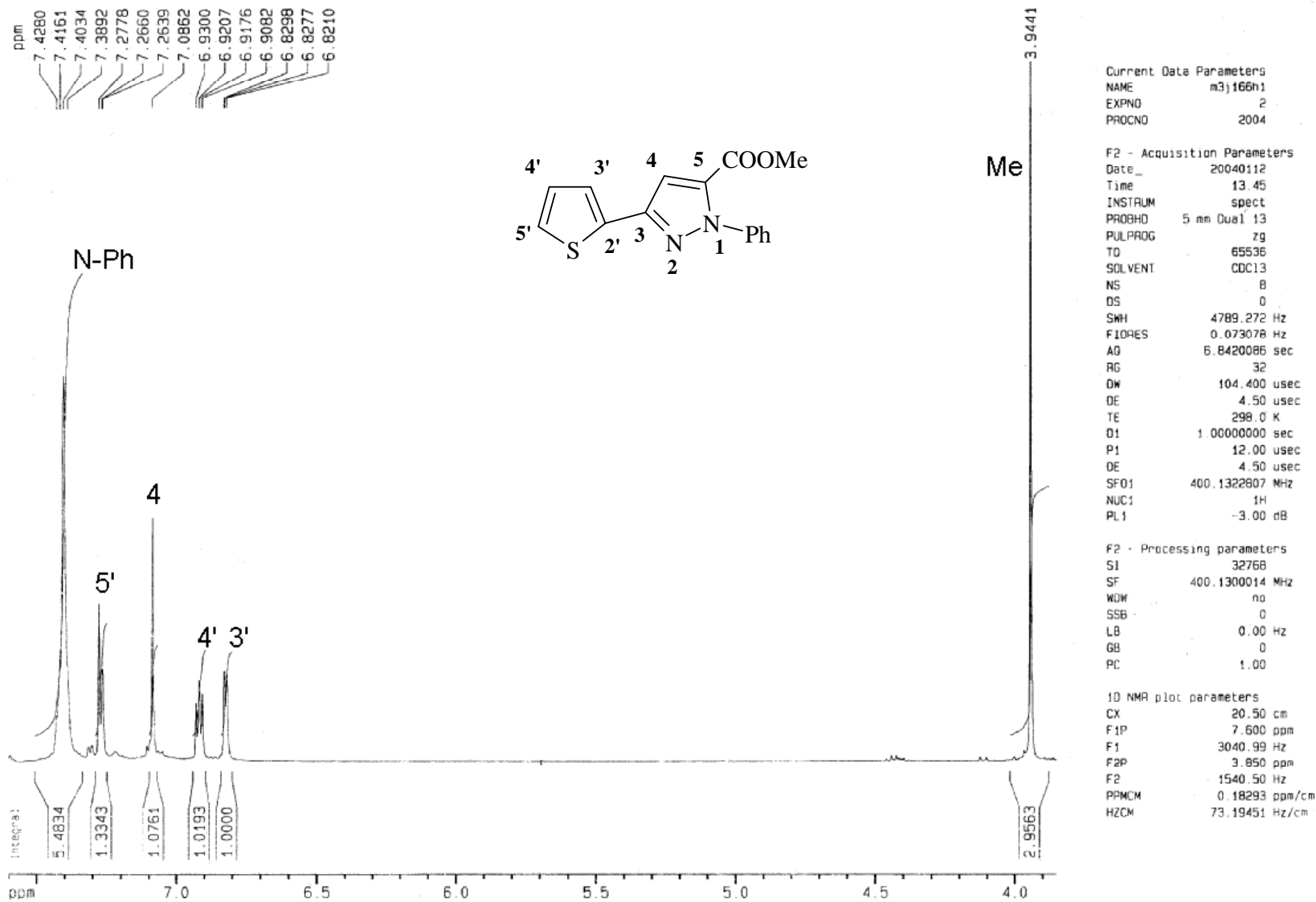


Figura 154. Espectro de RMN ^1H do 5-metoxicarbonil-1-fenil-3-[2-tienil]-1H-pirazol (**19b**) em CDCl_3 .

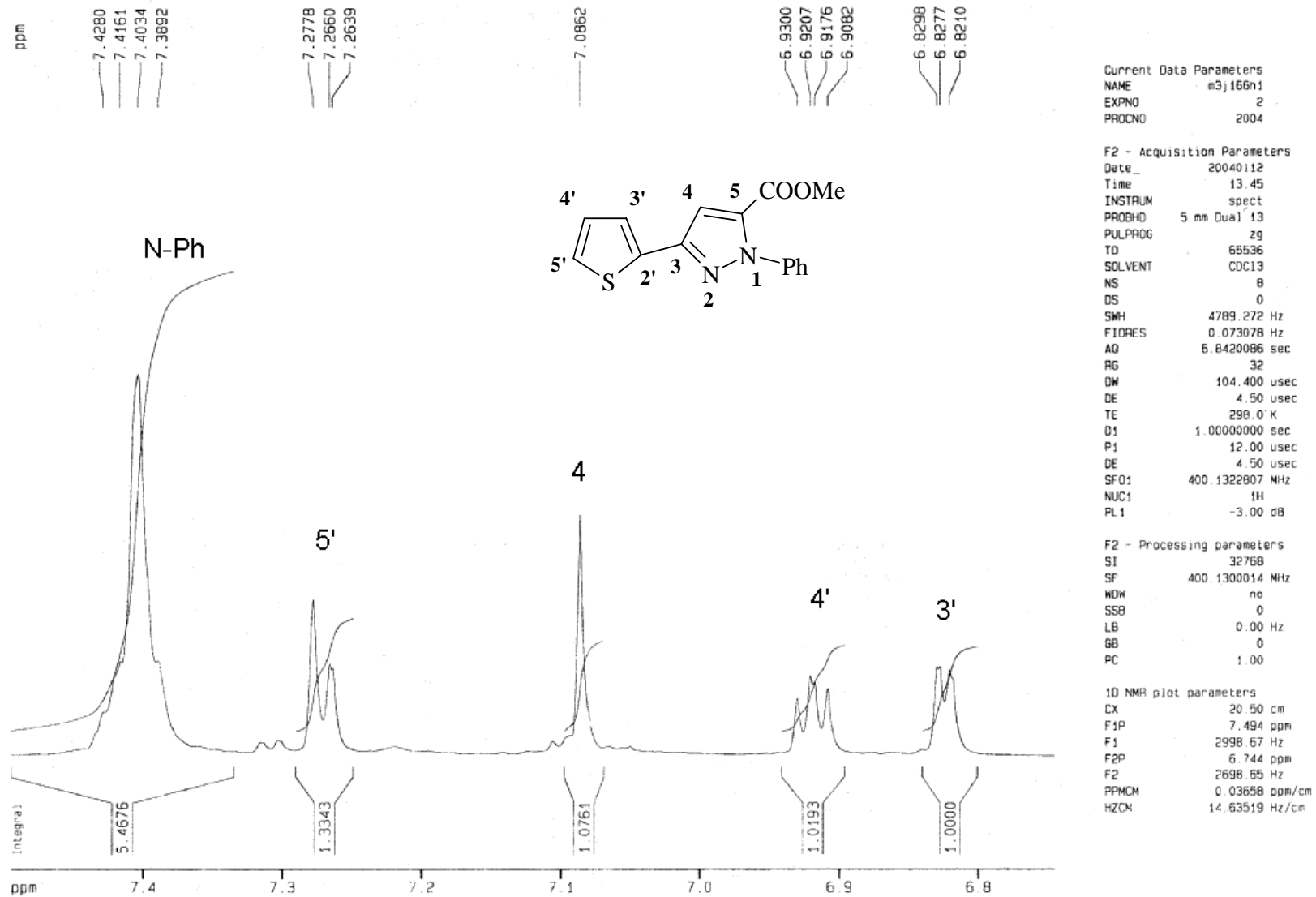


Figura 155. Espectro de RMN ^1H , expansão entre 6,8-7,4 ppm do 5-metoxicarbonil-1-fenil-3-[2-tienil]-1H-pirazol (**19b**) em CDCl_3 .

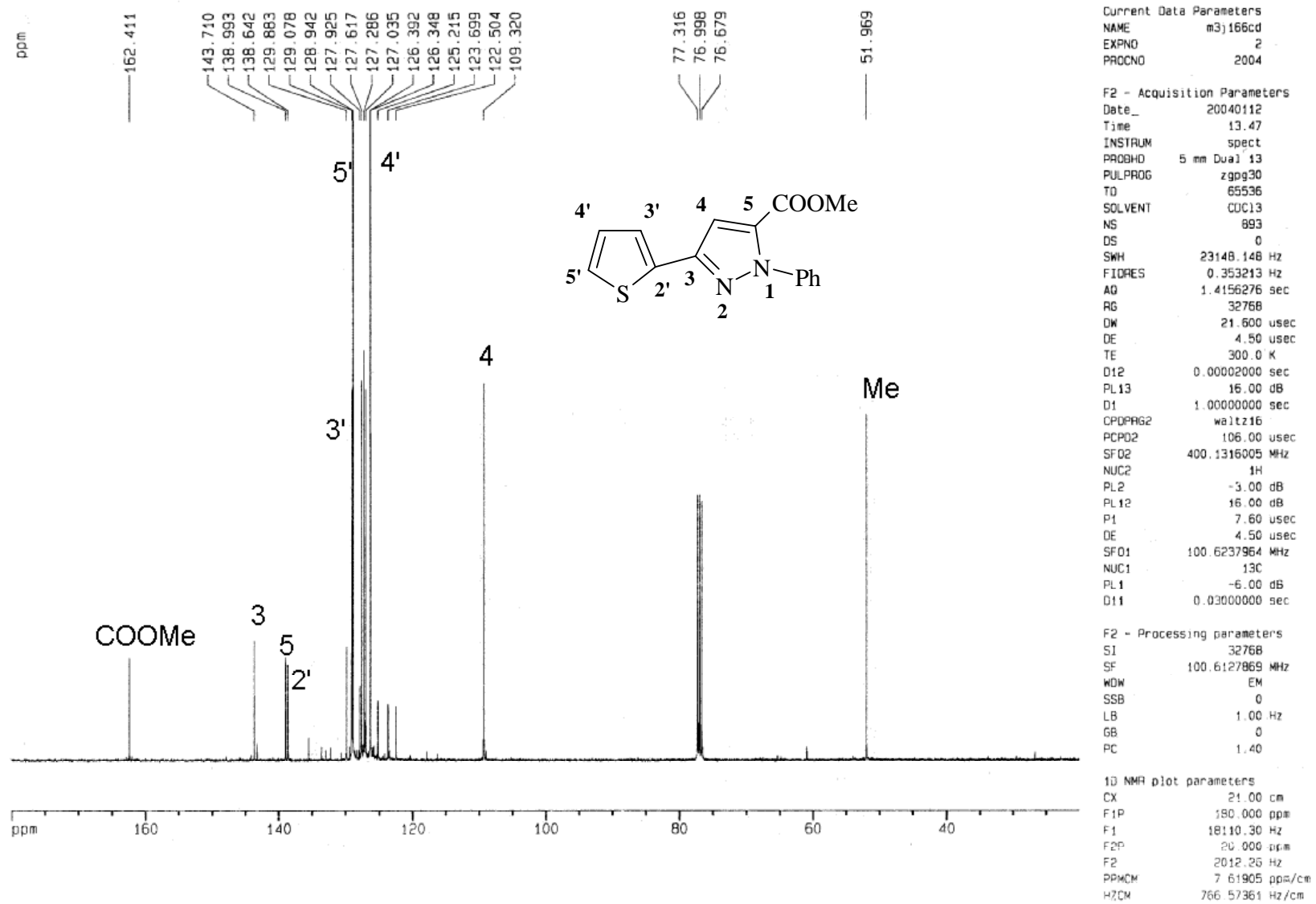


Figura 156. Espectro de RMN ^{13}C do 5-metoxicarbonil-1-fenil-3-[2-tienil]-1H-pirazol (**19b**) em CDCl_3 .

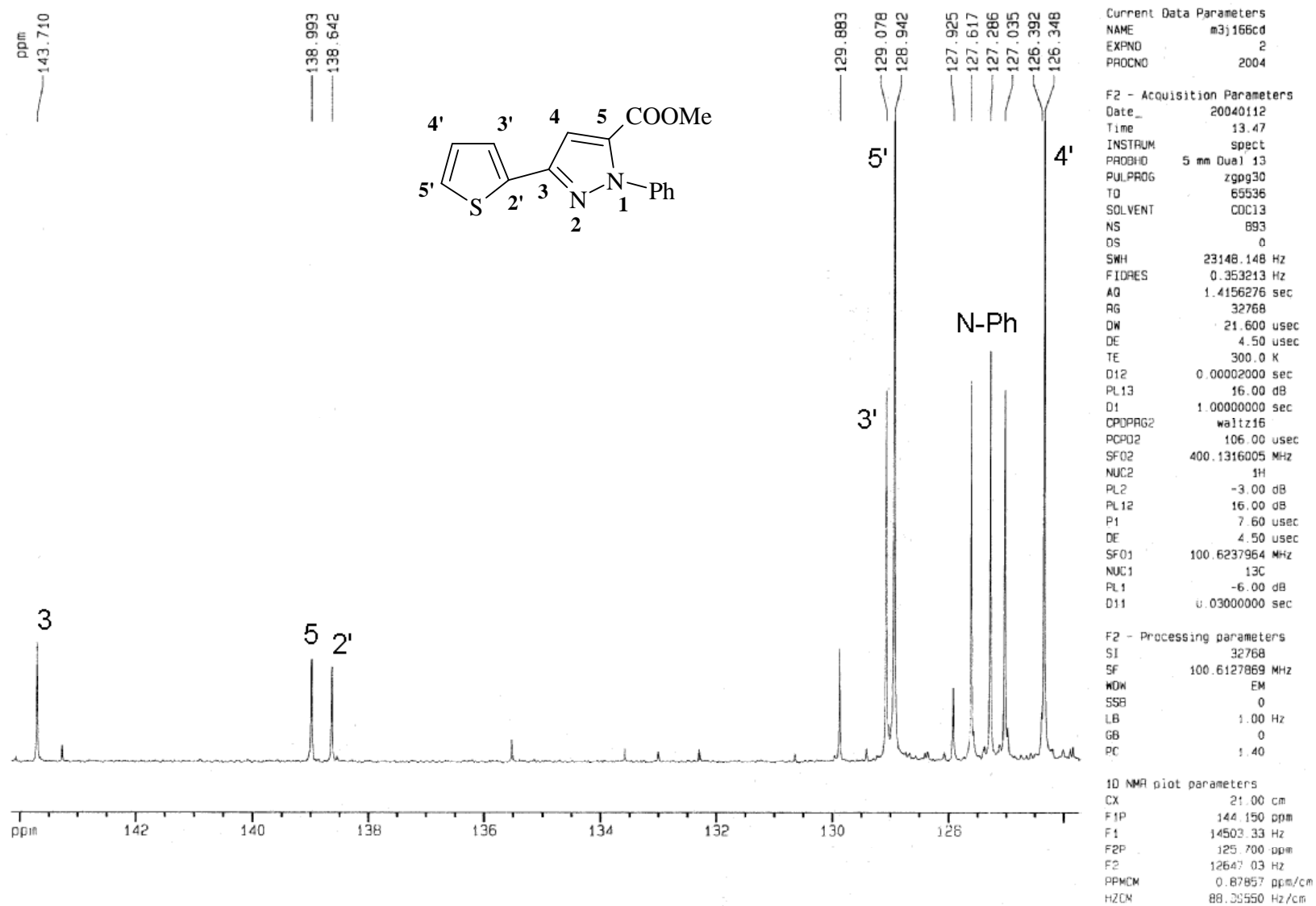


Figura 157. Espectro de RMN ^{13}C , expansão entre 128-142 ppm do 5-metoxicarbonil-1-fenil-3-[2-tienil]-1H-pirazol (**19b**) em CDCl_3 .

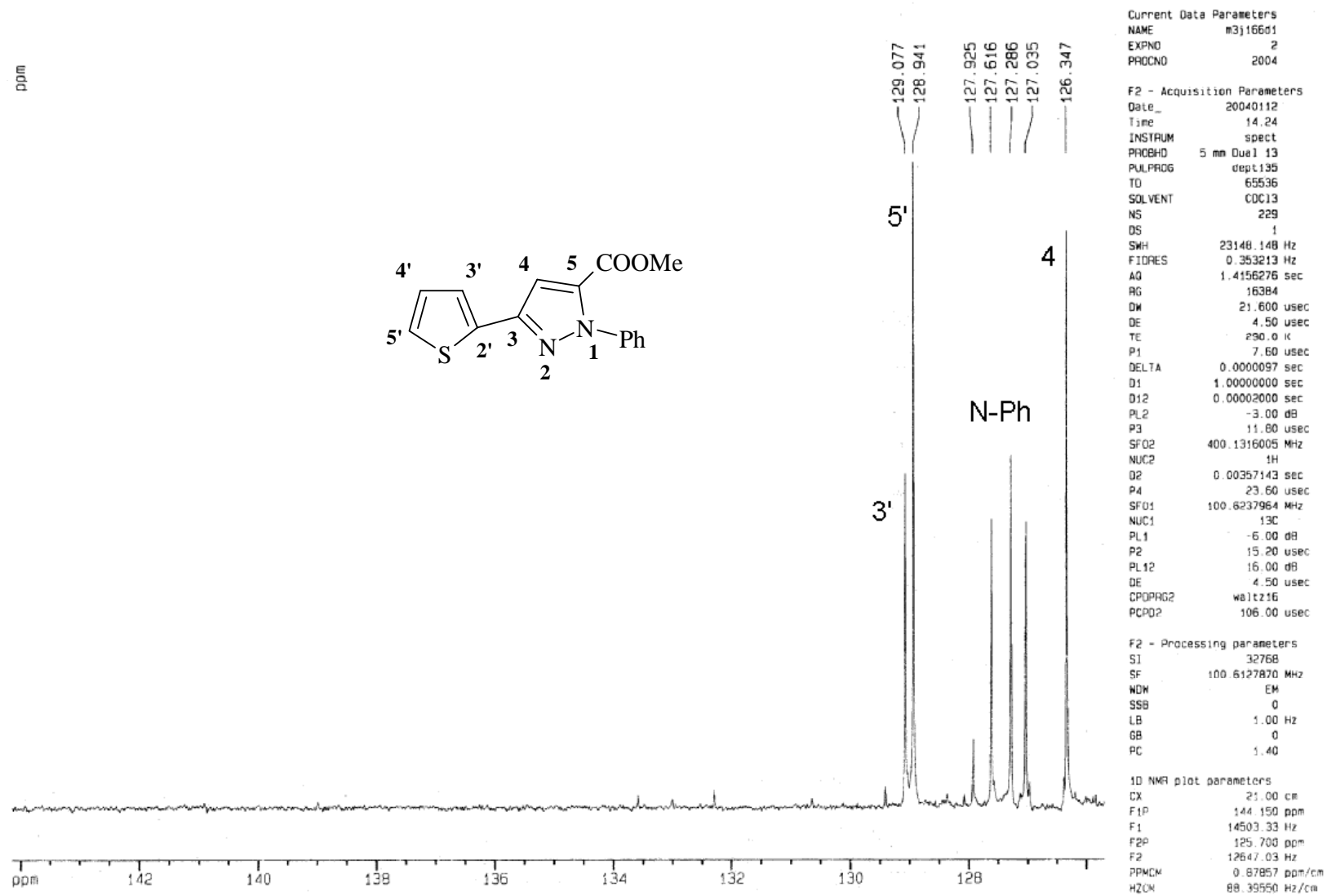


Figura 158. Espectro de RMN (DEPT 135) do 5-metoxicarbonil-1-fenil-3-[2-tienil]-1H-pirazol (**19b**) em CDCl₃.

ANEXO II

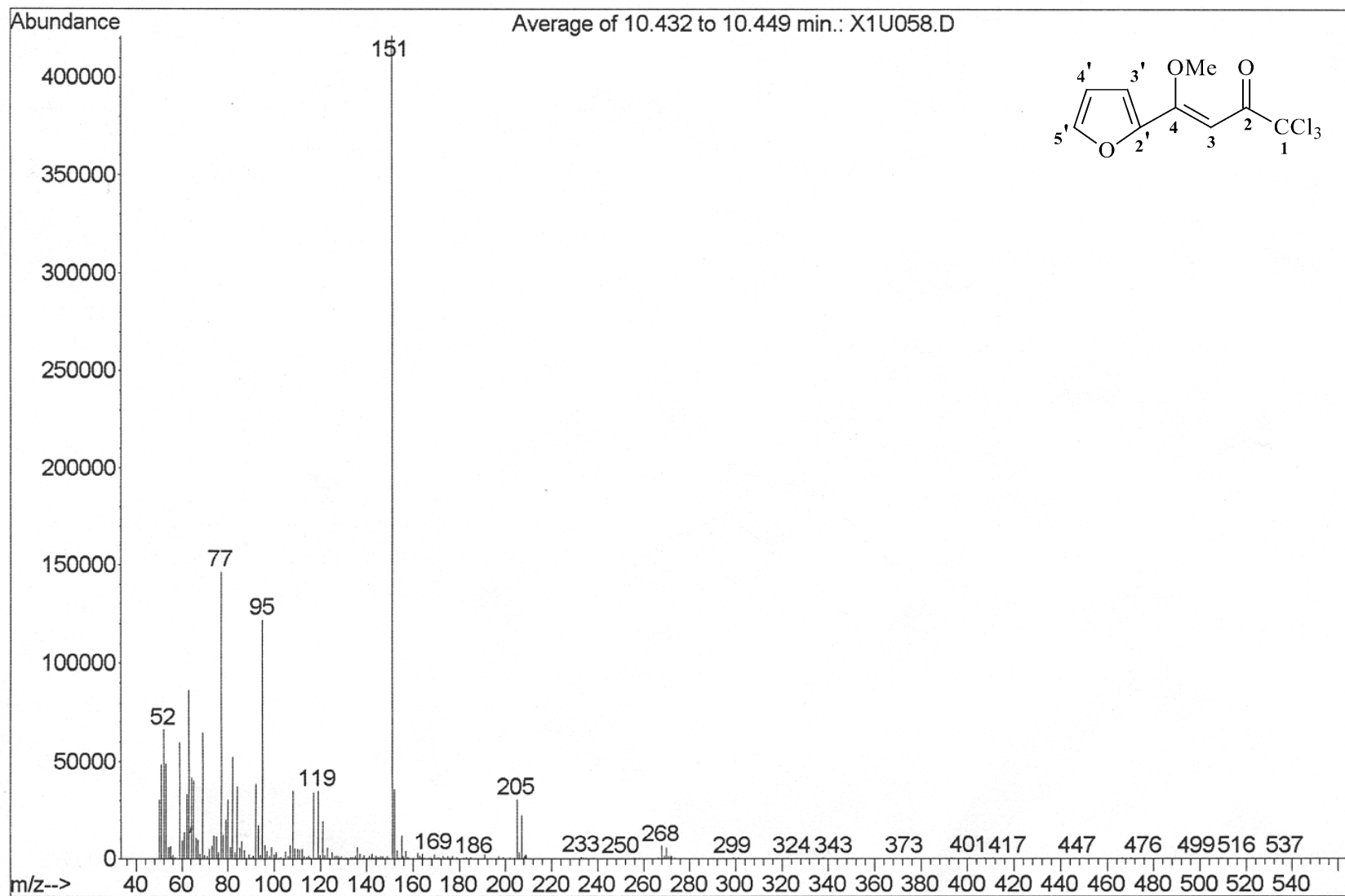


Figura 159. Espectro de Massa do 1,1,1-Tricloro-4-[2-furil]-4-metoxi-3-buten-2-ona (**2a**)

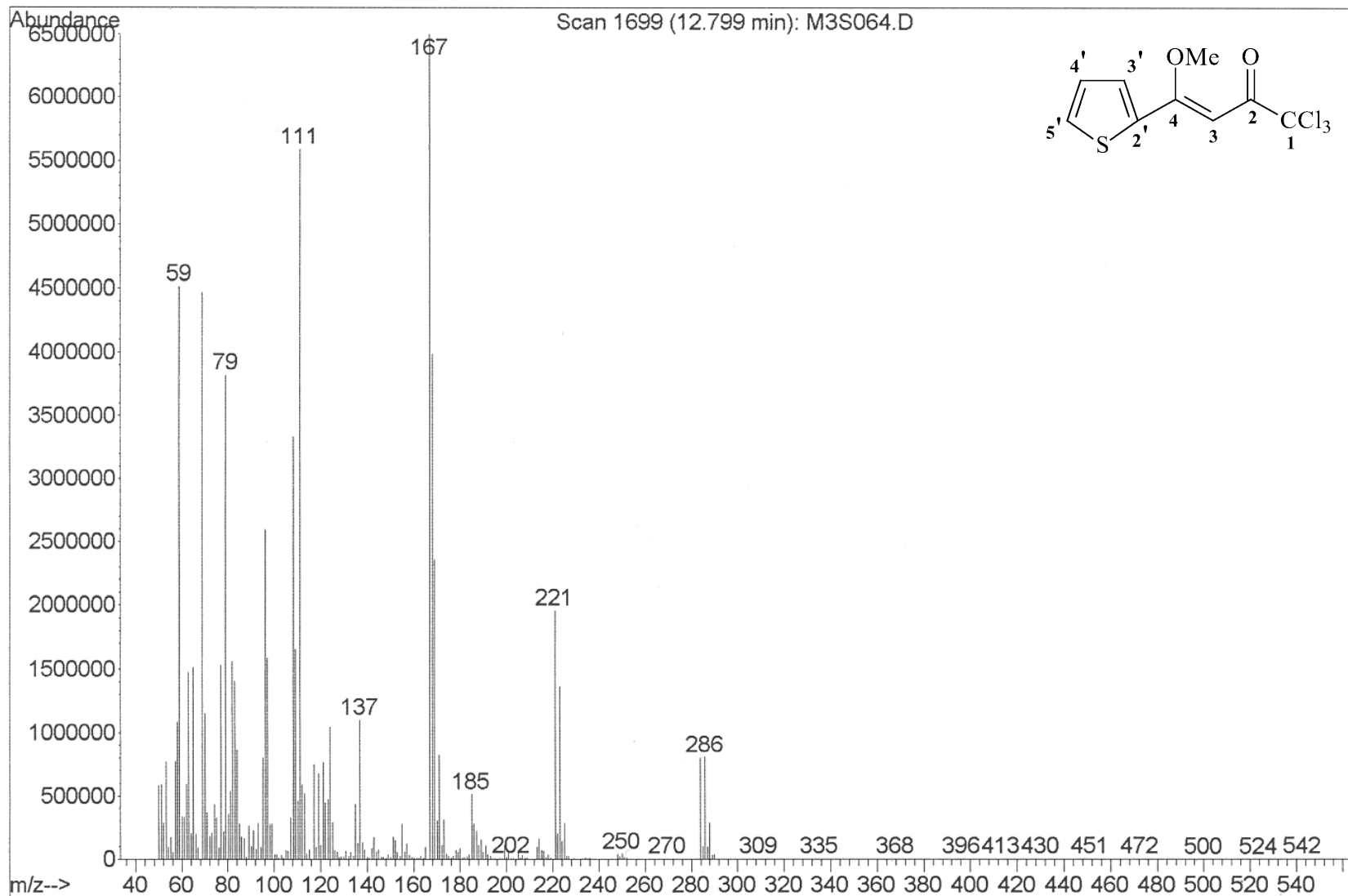


Figura 160. Espectro de Massa do 1,1,1-tricloro-4-metoxi-4-[2-tienil]-3-buten-2-ona (**2b**)

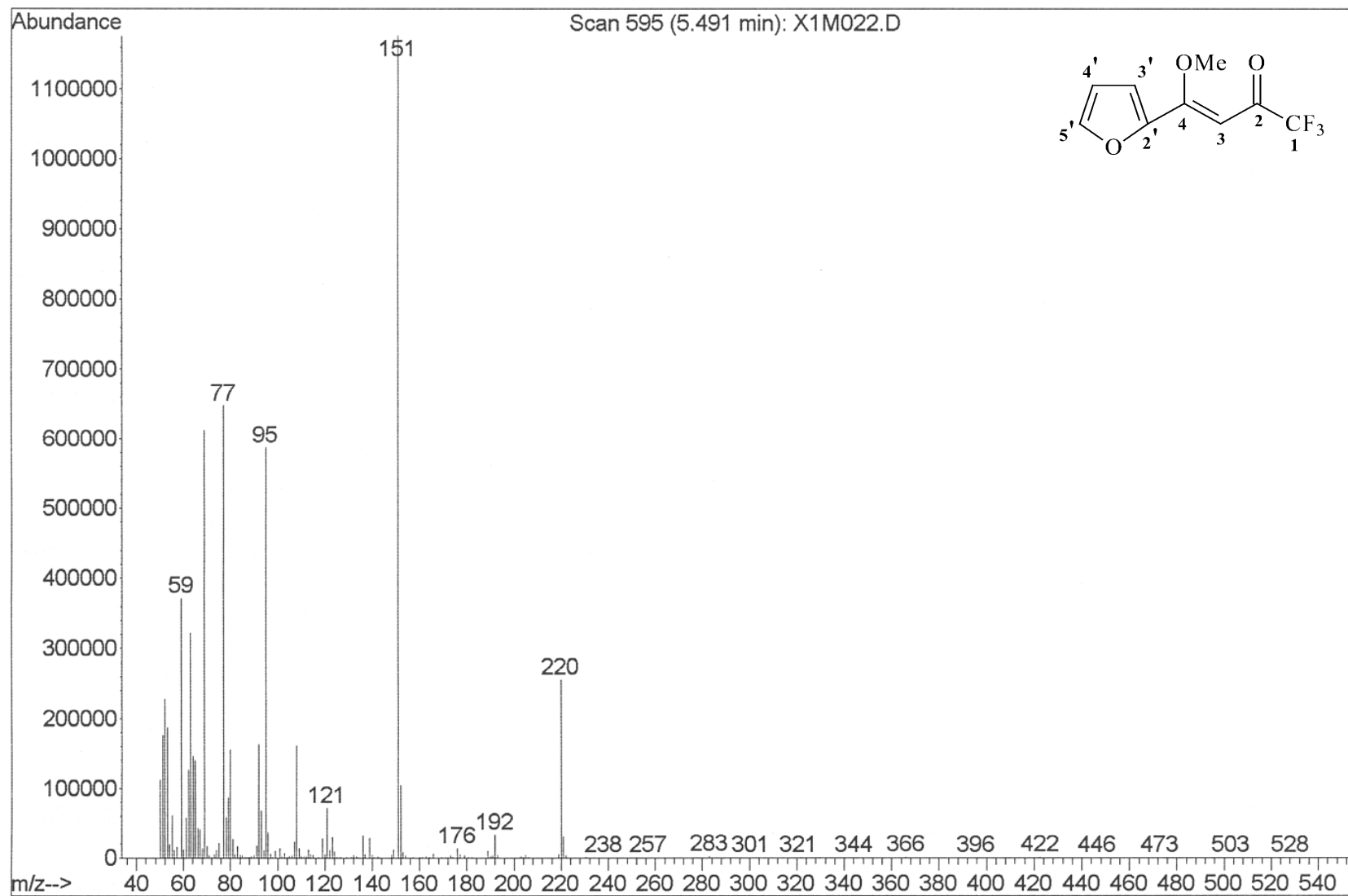


Figura 161. Espectro de Massa do 1,1,1-trifluor-4-[2-furil]-4-metoxi-3-buten-2-ona (**3a**)

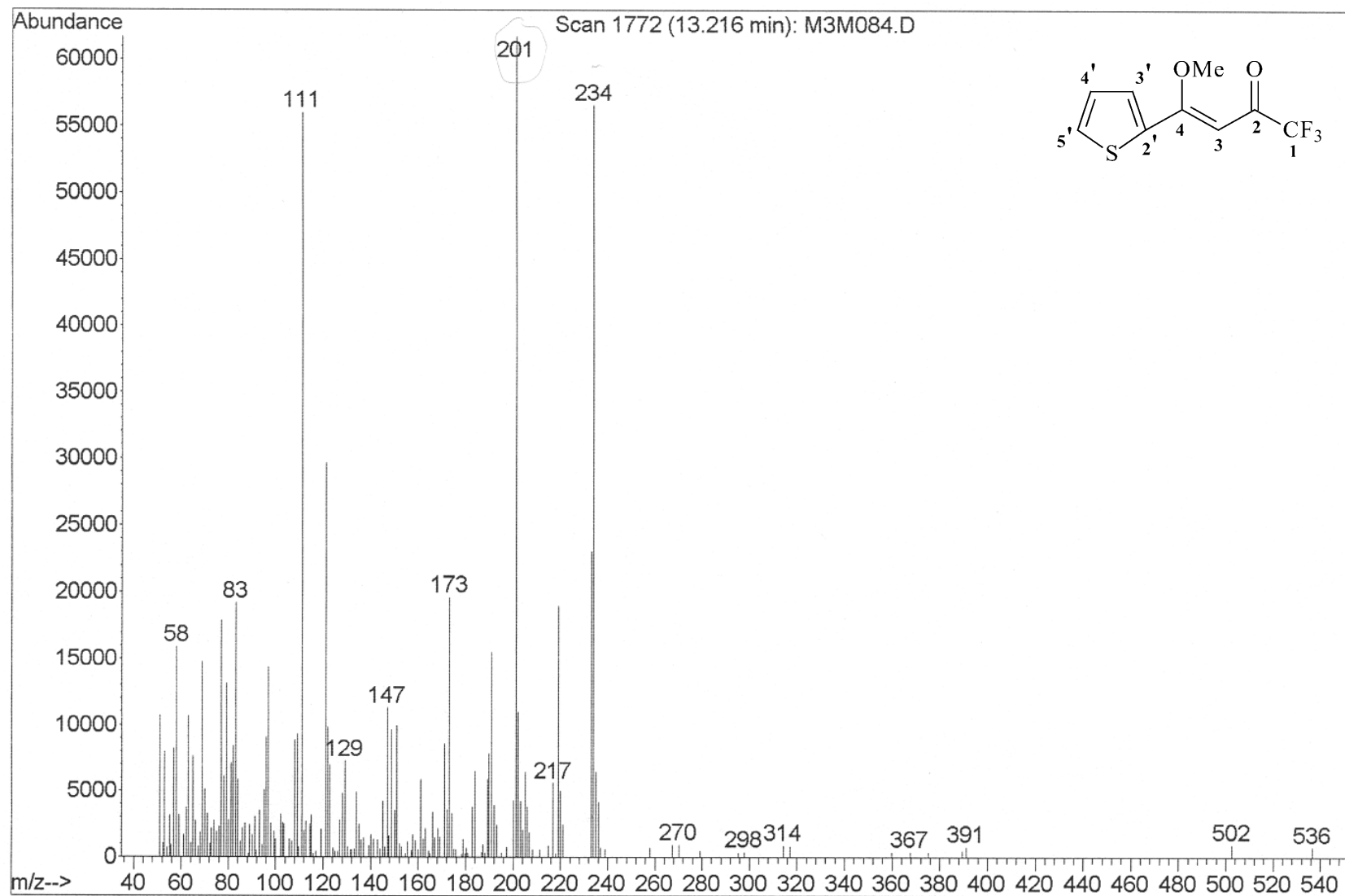


Figura 162. Espectro de Massa do 1,1,1-trifluor-4-metoxi-4-[2-tienil]-3-buten-2-ona (**3b**)

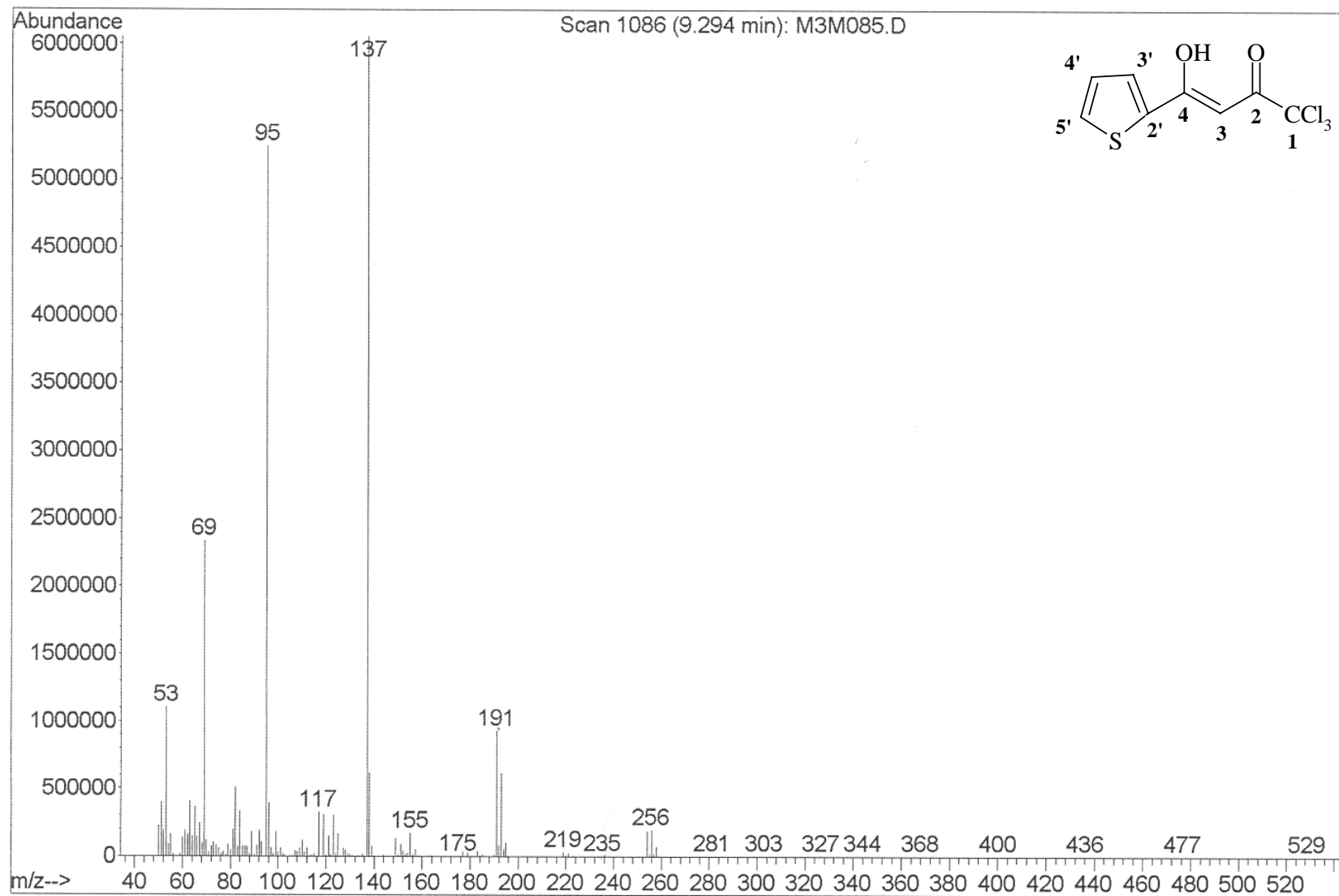


Figura 163. Espectro de Massa do 1,1,1-tricloro-4-[2-tienil]-buten-1,3-diona (**4a**)

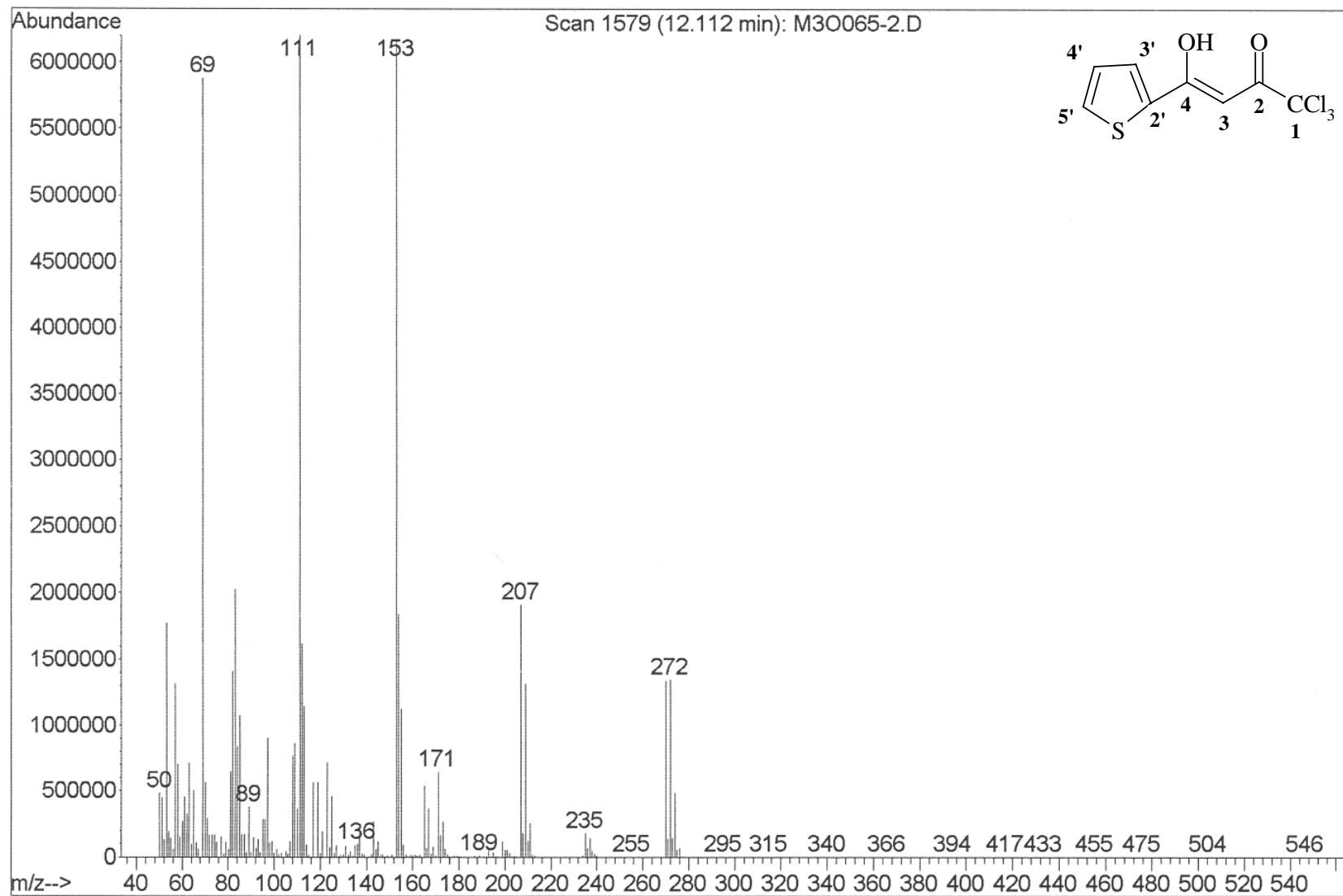


Figura 164. Espectro de Massa do 1,1,1-tricloro-4-[2-tienil]-buten-1,3-diona (**4b**)

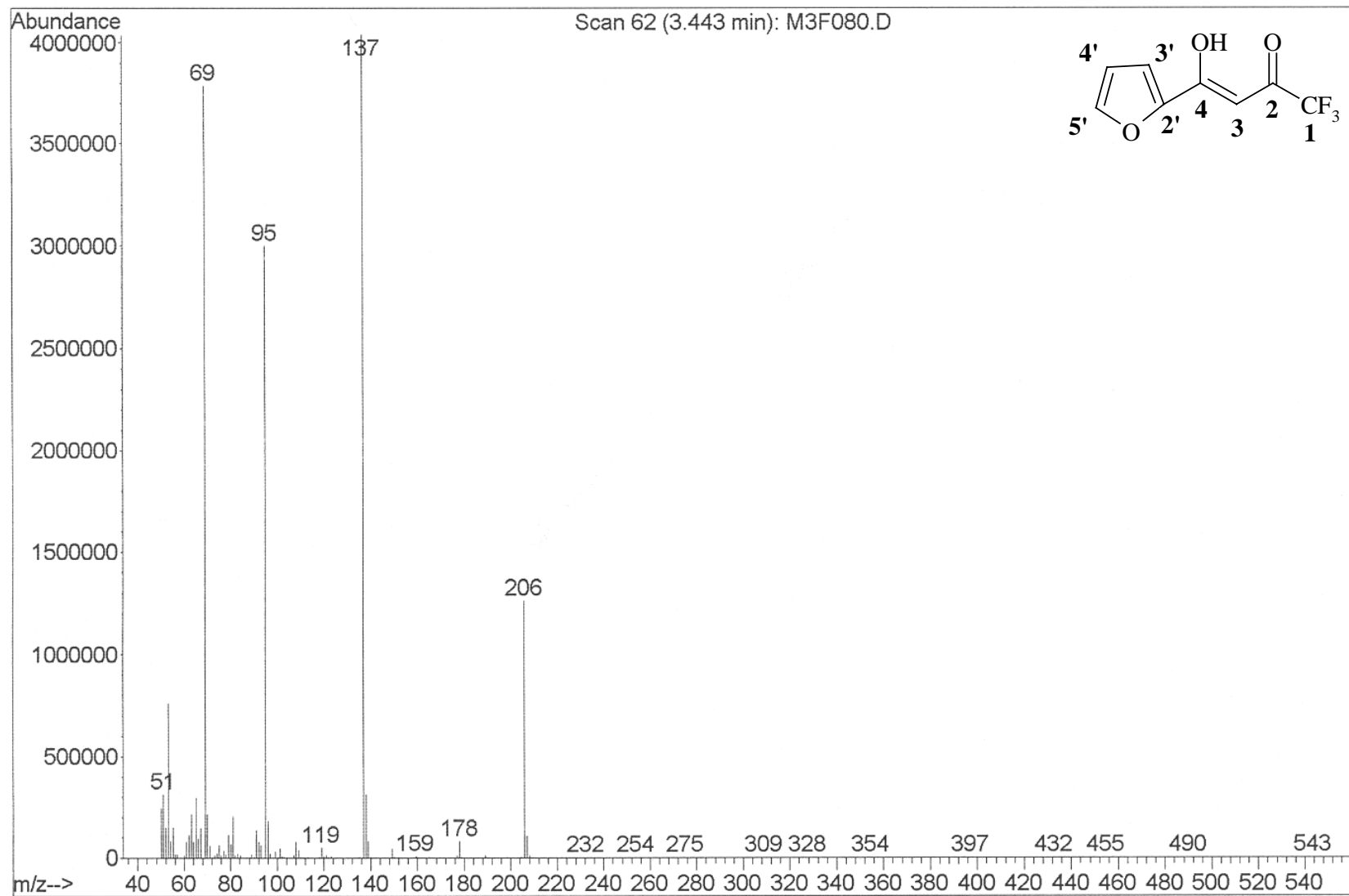


Figura 165. Espectro de Massa do 1,1,1-trifluor-4-[2-furil]-buten-1,3-diona (**5a**)

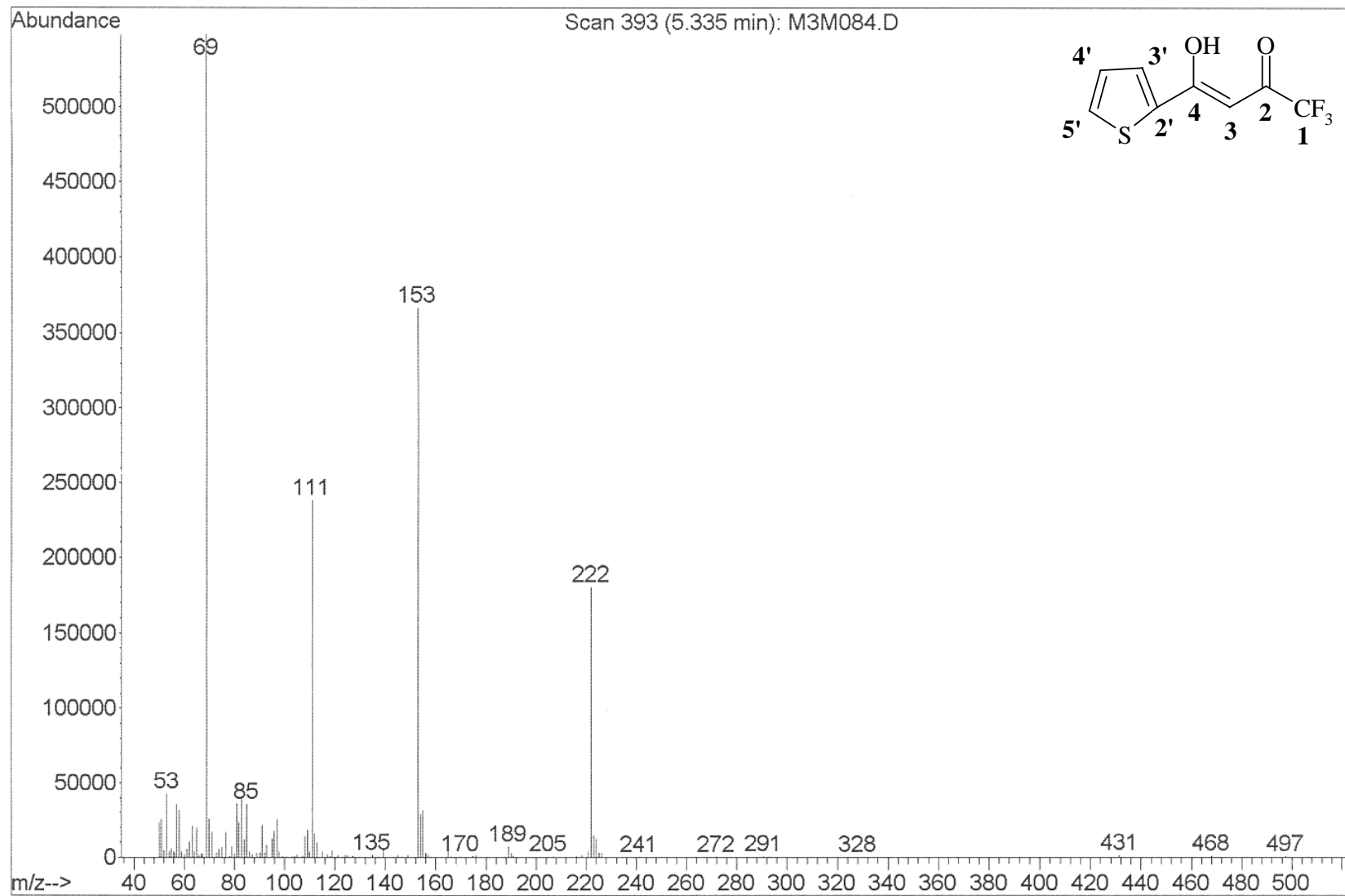


Figura 166. Espectro de Massa do 1,1,1-trifluor-4-[2-tienil]-buten-1,3-diona (**5b**)