

# Biosynthesis and Structural Revision of Neomarinone

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## Supporting Information

**Figure S1.** 150 MHz  $^{13}\text{C}$  NMR spectrum of unlabeled neomarinone in  $\text{DMSO}-d_6$

**Figure S2.** 150 MHz  $^{13}\text{C}$  NMR spectrum of  $[1-^{13}\text{C}]$ acetate-derived neomarinone in  $\text{DMSO}-d_6$

**Figure S3.** 150 MHz  $^{13}\text{C}$  NMR spectrum of  $[1,2-^{13}\text{C}_2]$ acetate-derived neomarinone in  $\text{DMSO}-d_6$

**Figure S4.** 150 MHz  $^{13}\text{C}$  NMR spectrum of  $[3-^{13}\text{C}]$ alanine-derived neomarinone in  $\text{DMSO}-d_6$

**Figure S5.** 150 MHz  $^{13}\text{C}$  NMR spectrum of  $[1-^{13}\text{C}]$ glucose-derived neomarinone in  $\text{DMSO}-d_6$

**Figure S6.** 150 MHz  $^{13}\text{C}$  NMR spectrum of  $[\text{U}-^{13}\text{C}_6]$ glucose-derived neomarinone in  $\text{DMSO}-d_6$

**Figure S7.** 150 MHz INADEQUATE spectrum of  $[\text{U}-^{13}\text{C}_6]$ glucose-derived neomarinone in  $\text{DMSO}-d_6$

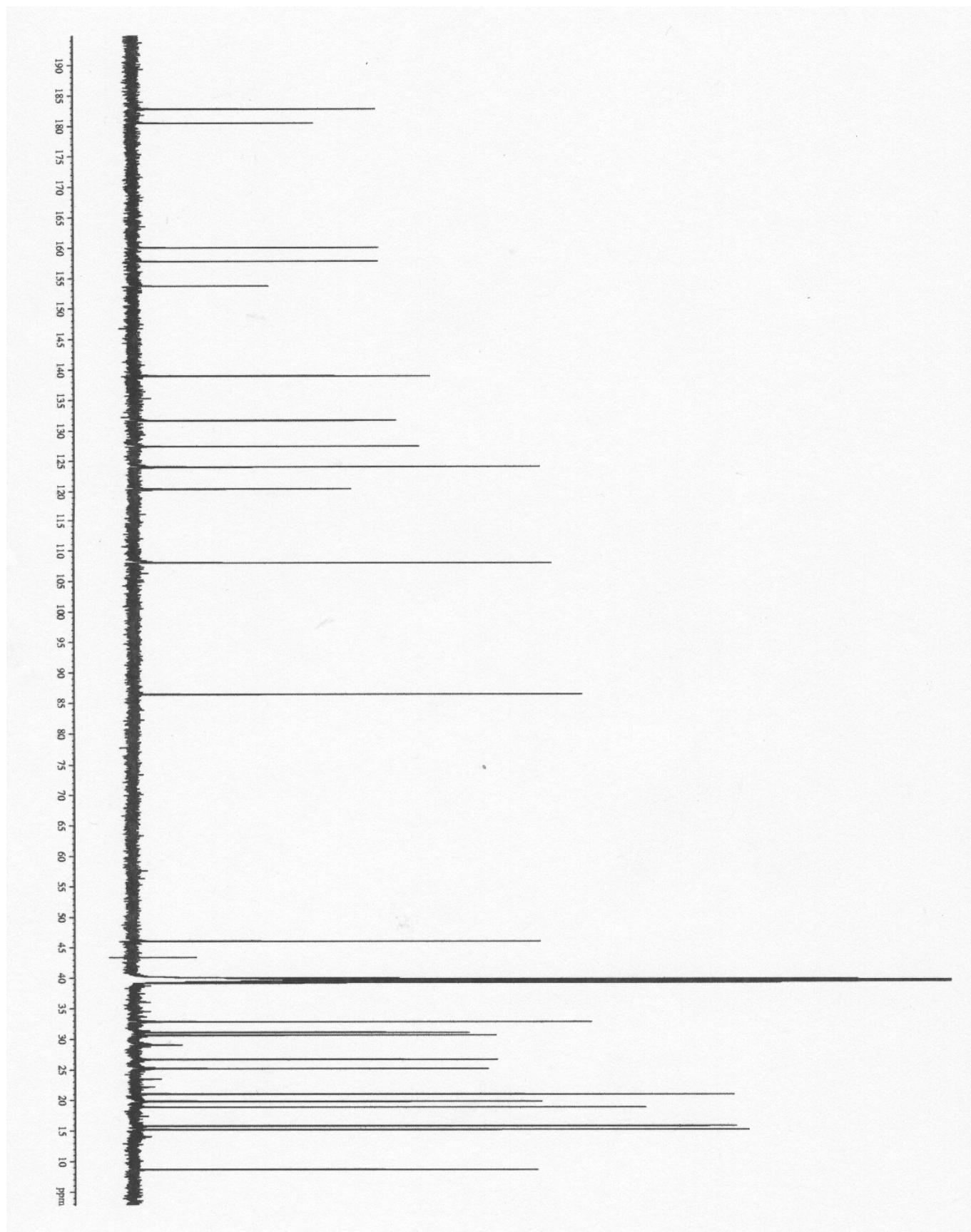
**Figure S8.** 600 MHz HMBC spectrum of unlabeled neomarinone in  $\text{DMSO}-d_6$

**Figure S9.** 600 MHz HMQC spectrum of unlabeled neomarinone in  $\text{DMSO}-d_6$

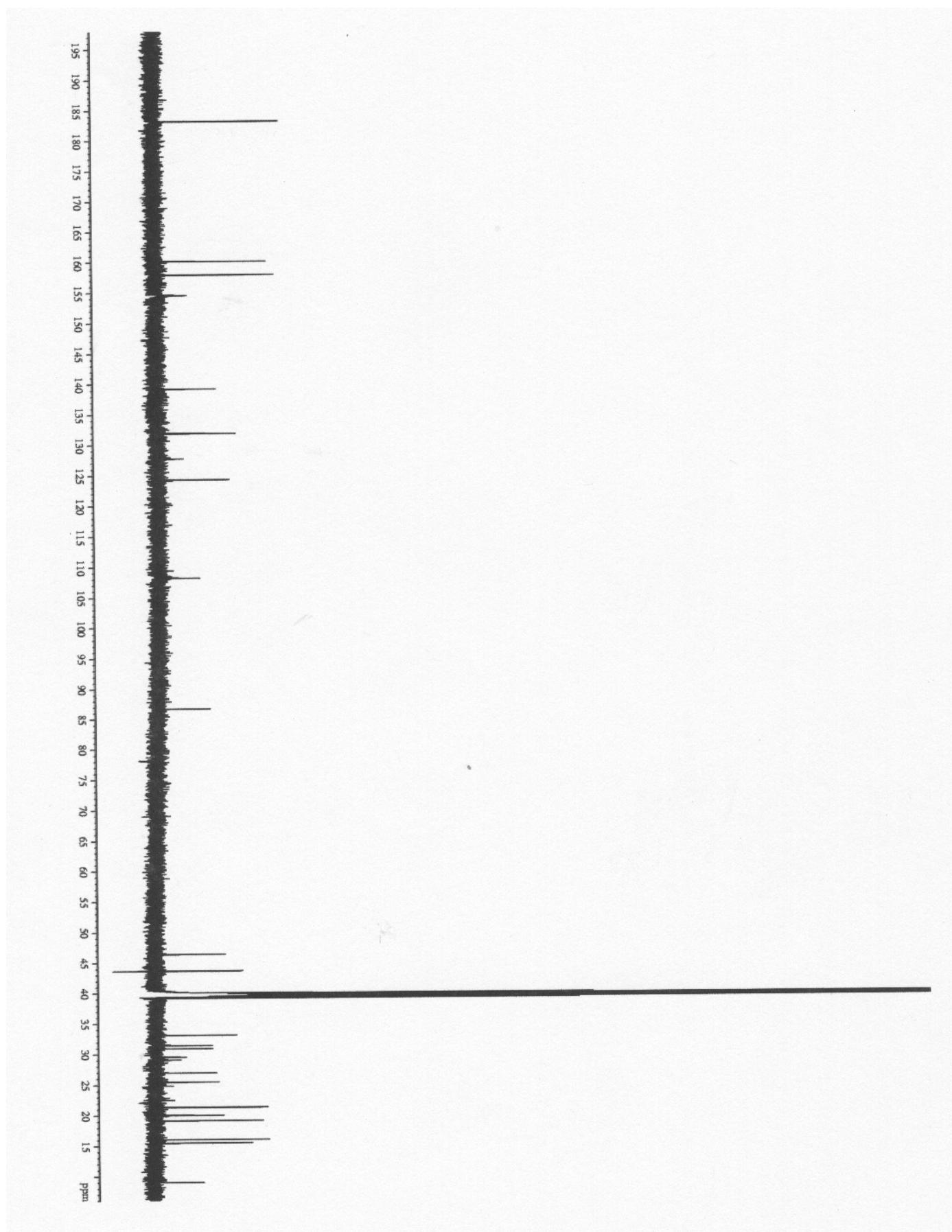
**Figure S10.** 600 MHz COSY spectrum of unlabeled neomarinone in  $\text{DMSO}-d_6$

**Figure S11.** 600 MHz  $^1\text{H}$  NMR spectrum of unlabeled neomarinone in  $\text{DMSO}-d_6$

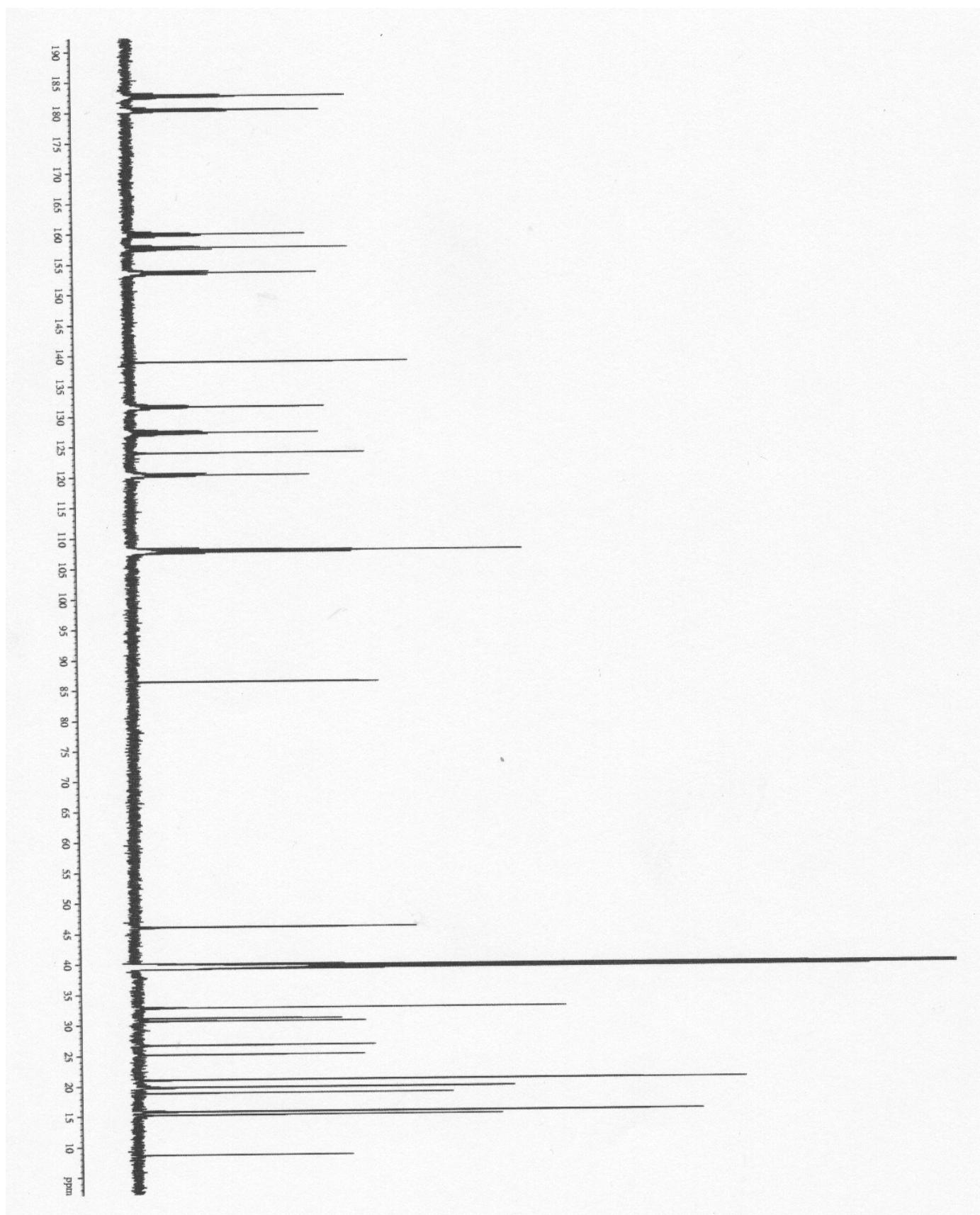
**Figure S1.** 150 MHz  $^{13}\text{C}$  NMR spectrum of unlabeled neomarinone in  $\text{DMSO-}d_6$



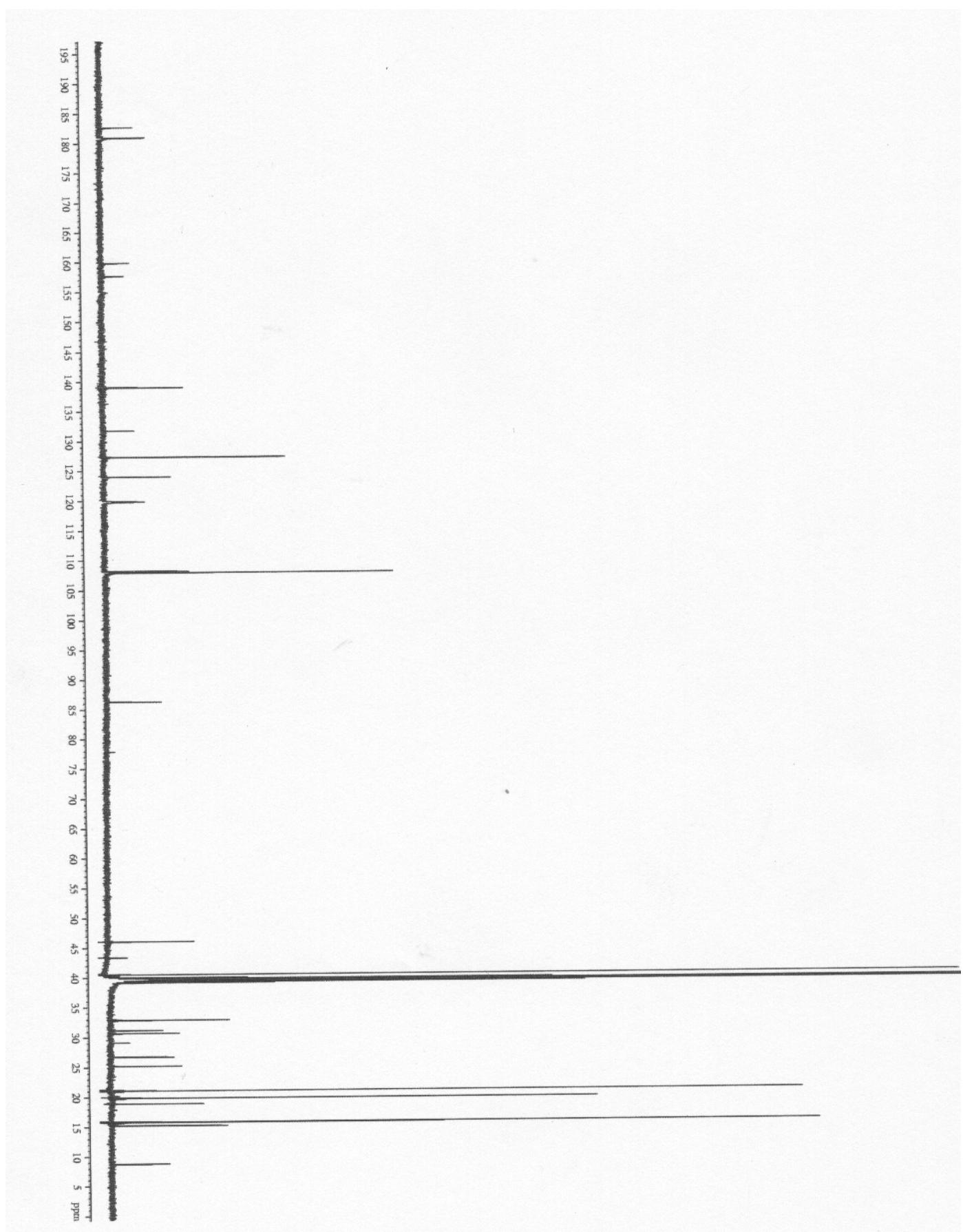
**Figure S2.** 150 MHz  $^{13}\text{C}$  NMR spectrum of [1- $^{13}\text{C}$ ]acetate-derived neomarinone in  $\text{DMSO}-d_6$



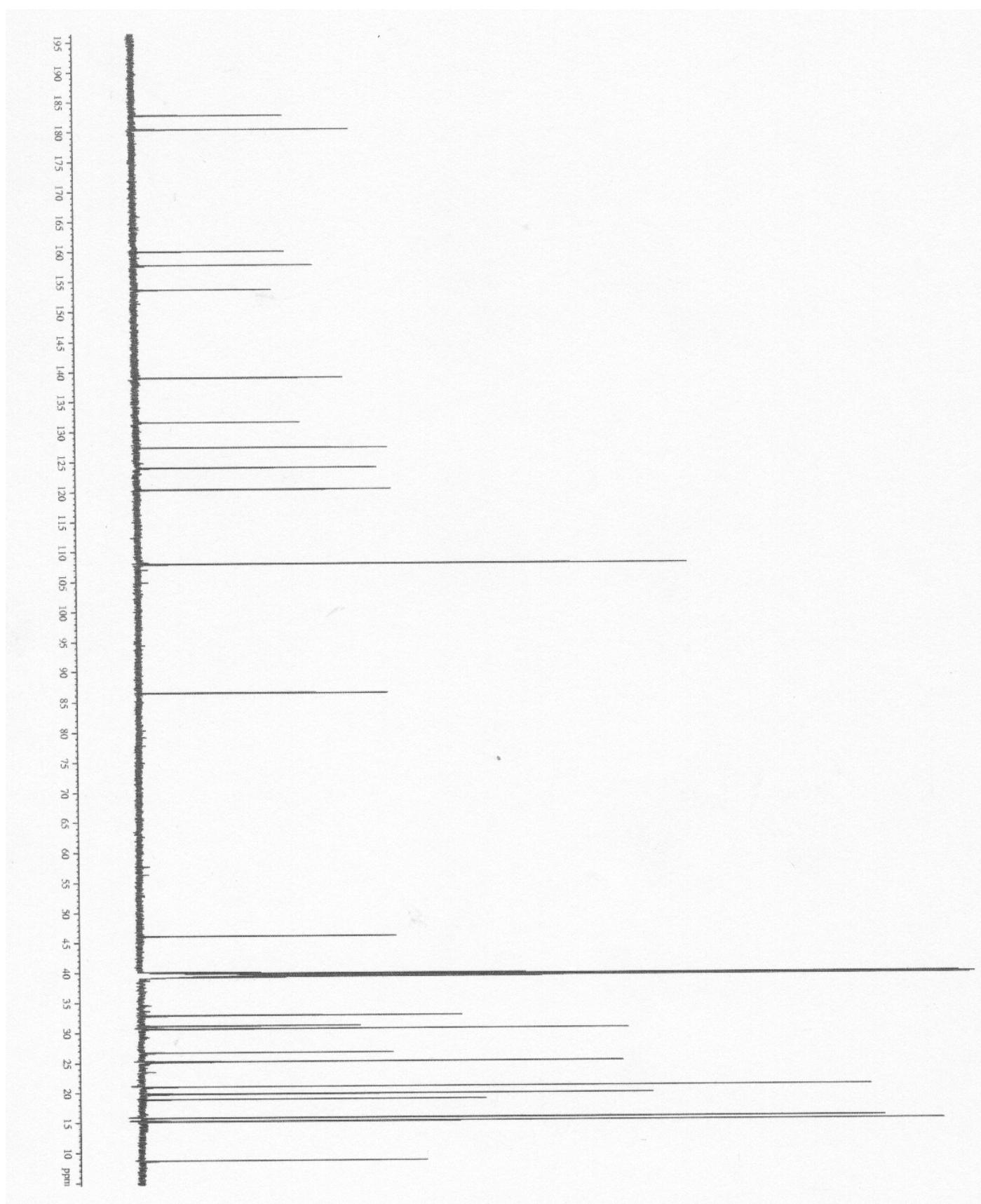
**Figure S3.** 150 MHz  $^{13}\text{C}$  NMR spectrum of [1,2- $^{13}\text{C}_2$ ]acetate-derived neomarinone in  $\text{DMSO}-d_6$



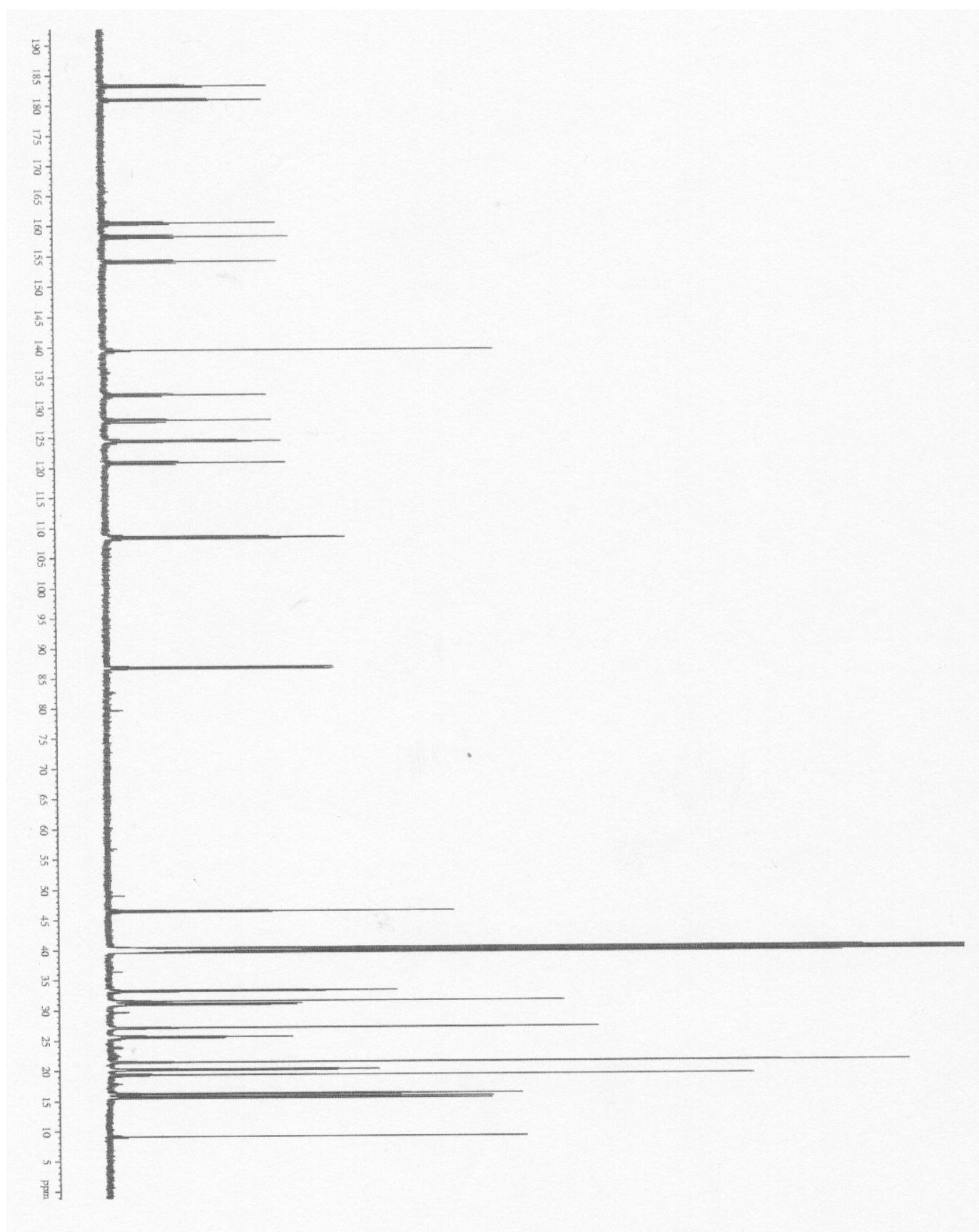
**Figure S4.** 150 MHz  $^{13}\text{C}$  NMR spectrum of [3- $^{13}\text{C}$ ]alanine-derived neomarinone in  $\text{DMSO}-d_6$



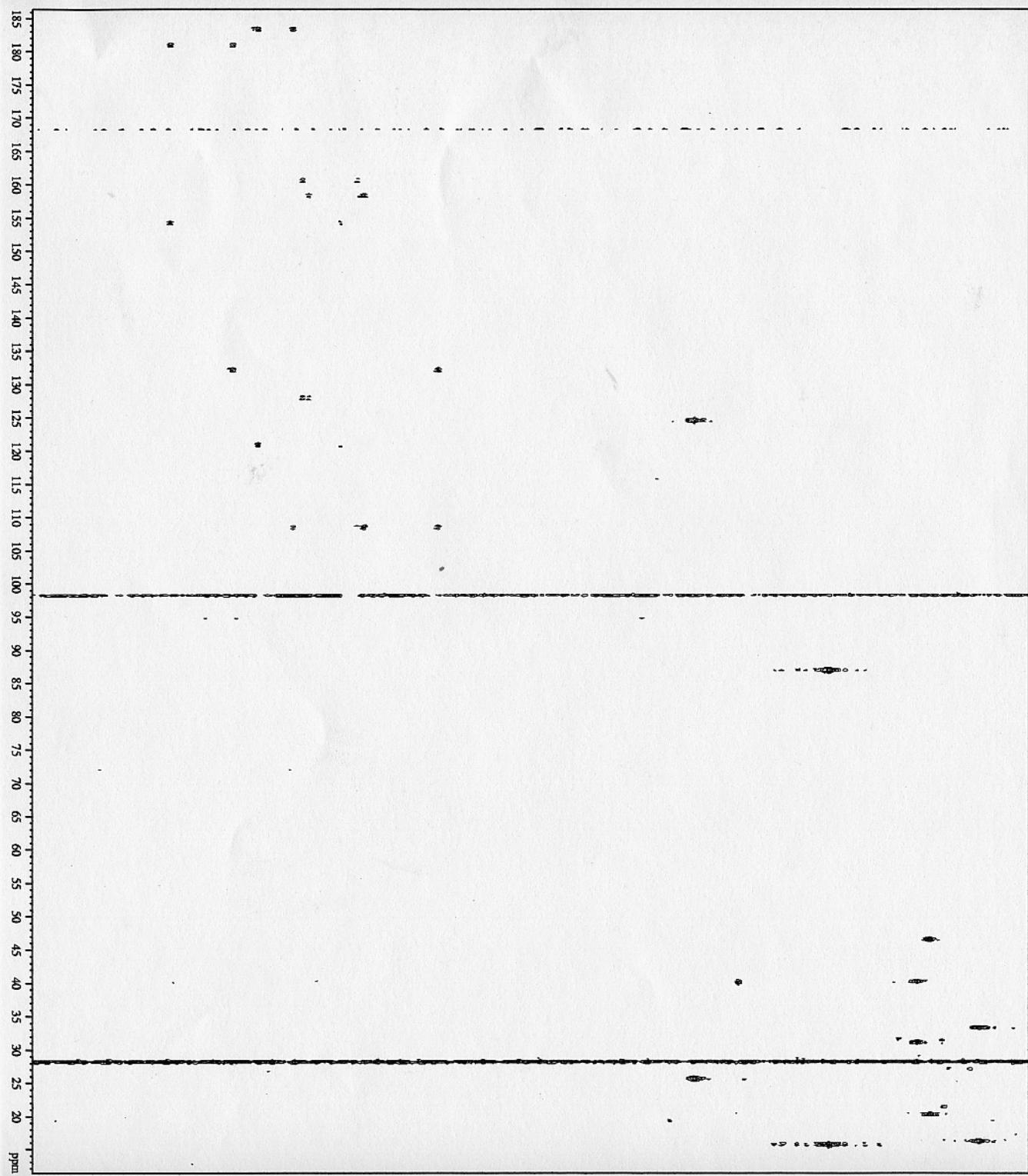
**Figure S5.** 150 MHz  $^{13}\text{C}$  NMR spectrum of [1- $^{13}\text{C}$ ]glucose-derived neomarinone in  $\text{DMSO}-d_6$



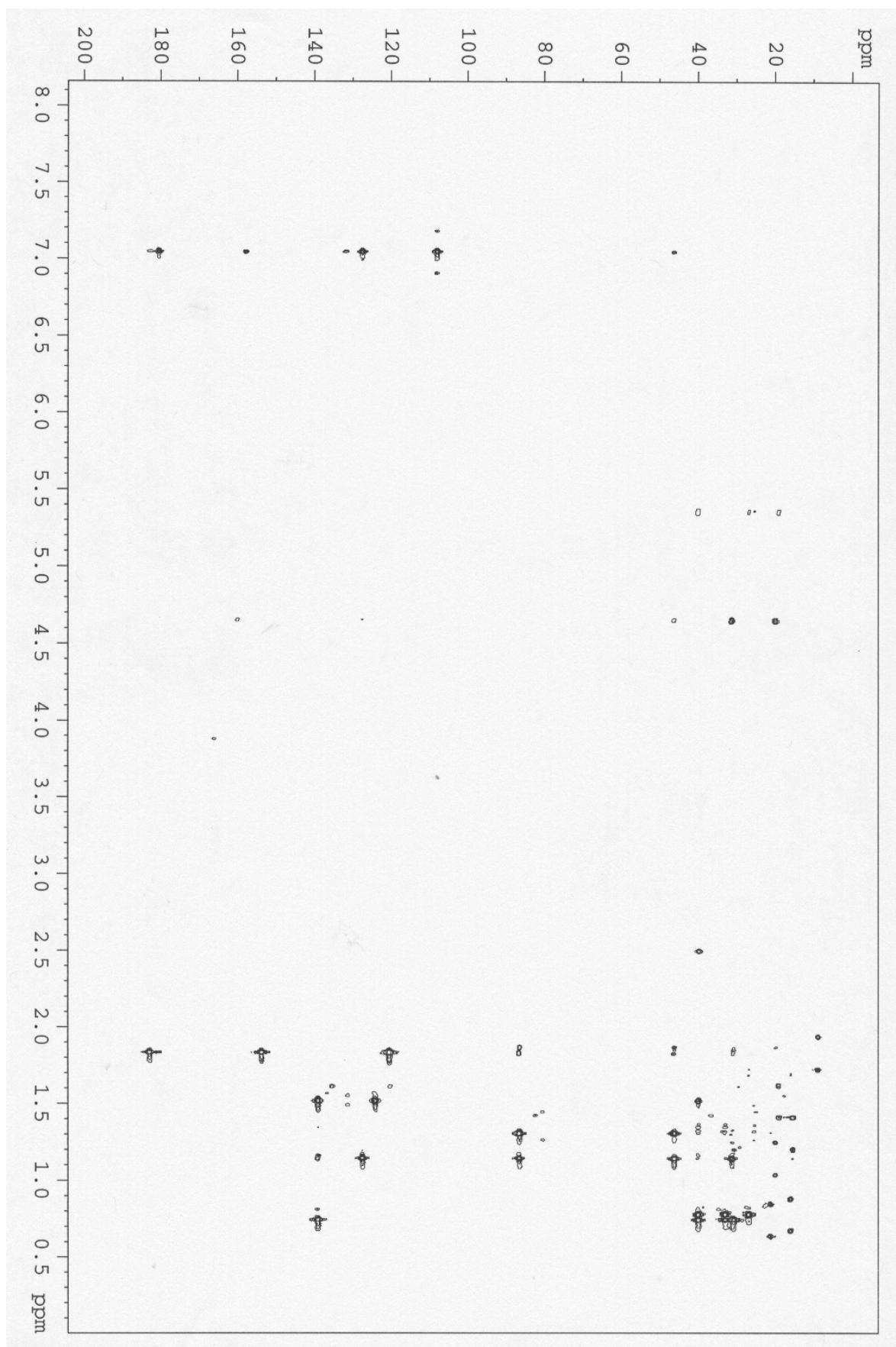
**Figure S6.** 150 MHz  $^{13}\text{C}$  NMR spectrum of [U- $^{13}\text{C}_6$ ]glucose-derived neomarinone in  $\text{DMSO}-d_6$



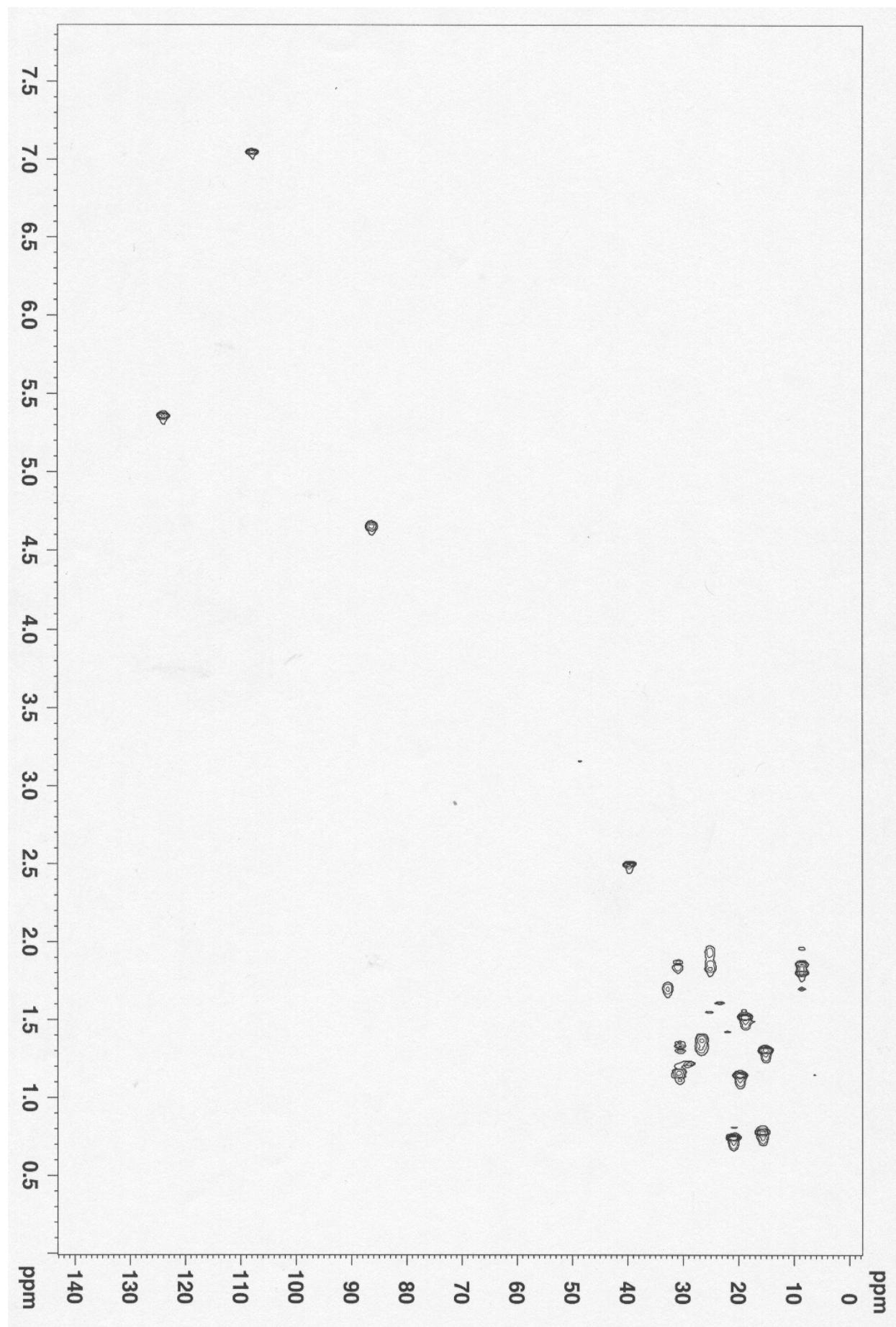
**Figure S7.** 150 MHz INADEQUATE spectrum of [ $^{13}\text{C}_6$ ]glucose-derived neomarinone in  $\text{DMSO}-d_6$



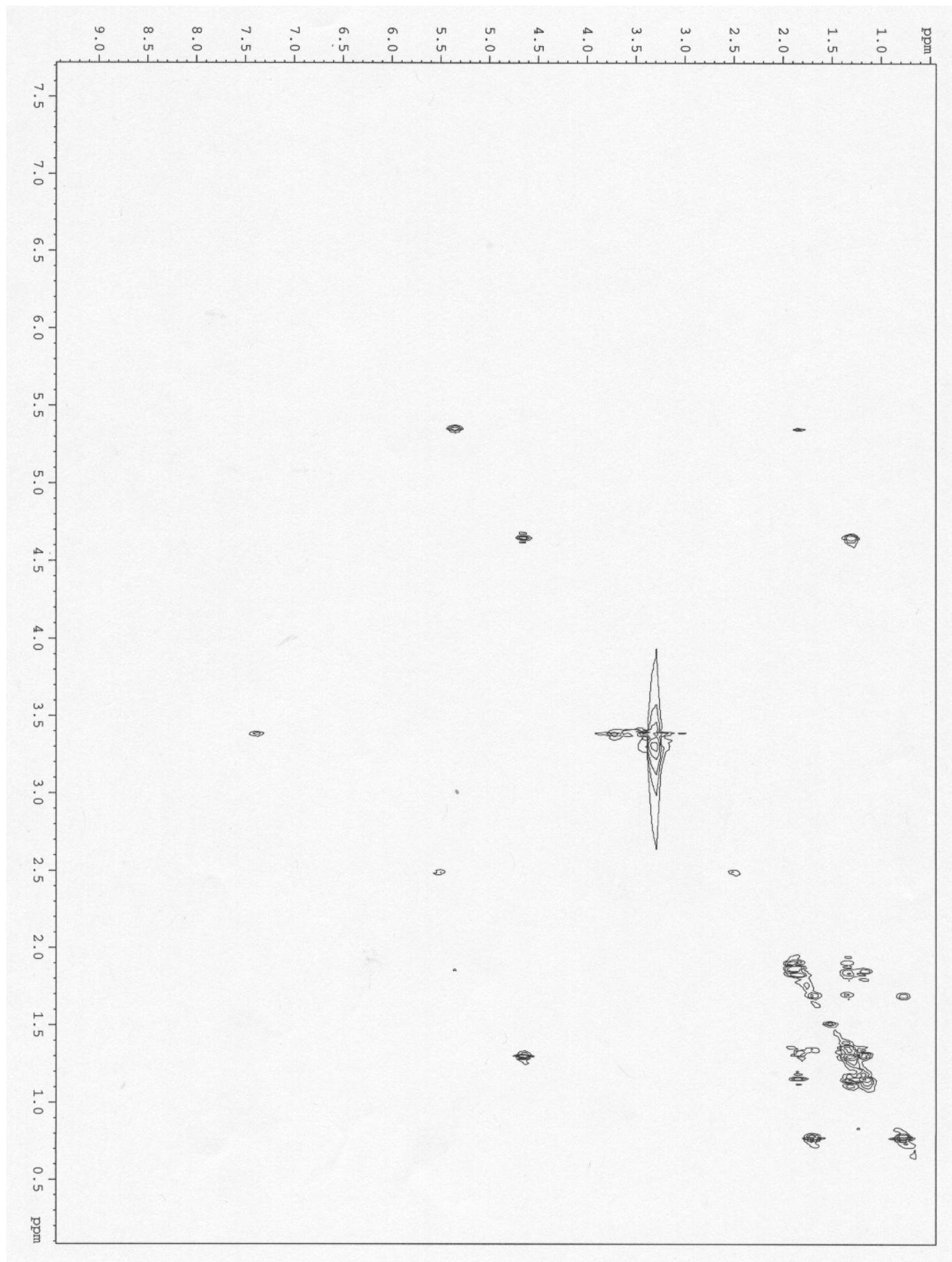
**Figure S8.** 600 MHz HMBC spectrum of unlabeled neomarinone in  $\text{DMSO}-d_6$



**Figure S9.** 600 MHz HMQC spectrum of unlabeled neomarinone in  $\text{DMSO}-d_6$



**Figure S10.** 600 MHz COSY spectrum of unlabeled neomarinone in  $\text{DMSO}-d_6$



**Figure S11.** 600 MHz  $^1\text{H}$  NMR spectrum of unlabeled neomarinone in  $\text{DMSO}-d_6$

