



Supporting Information

for

Breakdown of 3-(allylsulfonio)propanoates in bacteria from the *Roseobacter* group yields garlic oil constituents

Anuj Kumar Chhalodia and Jeroen S. Dickschat

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Additional total ion chromatograms and copies of NMR spectra

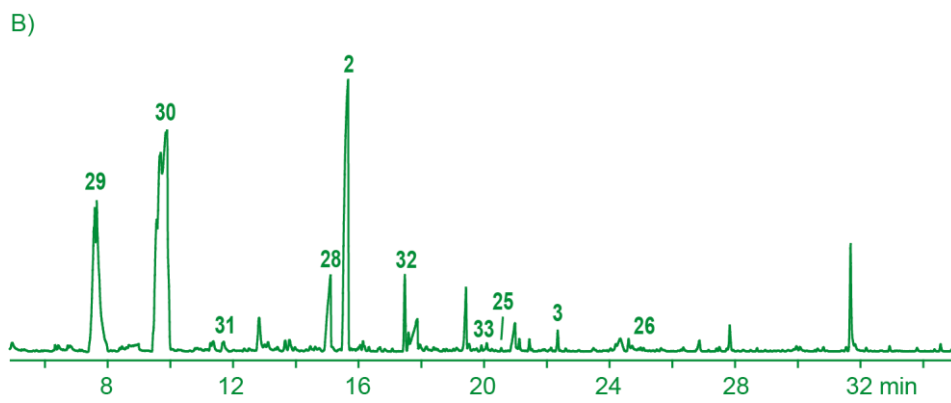
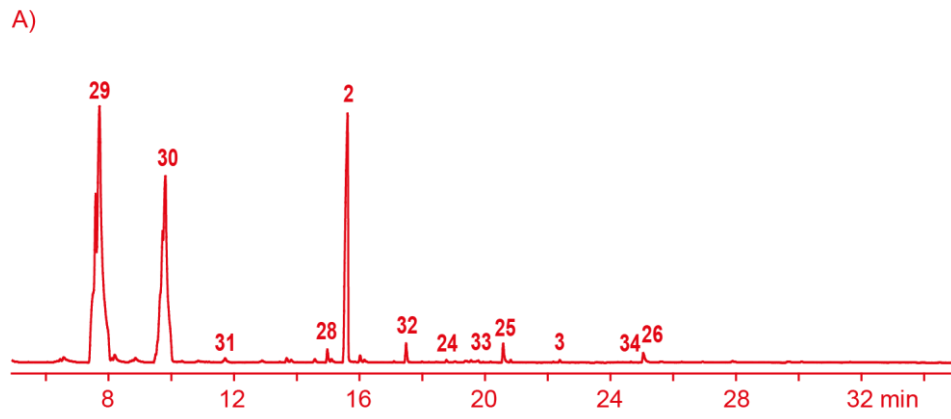


Figure S1: Total ion chromatograms of CLSA extracts obtained from feeding experiments with DAISP fed to *P. inhibens* (two repetitions of experiment shown in Figure 2A of main text).

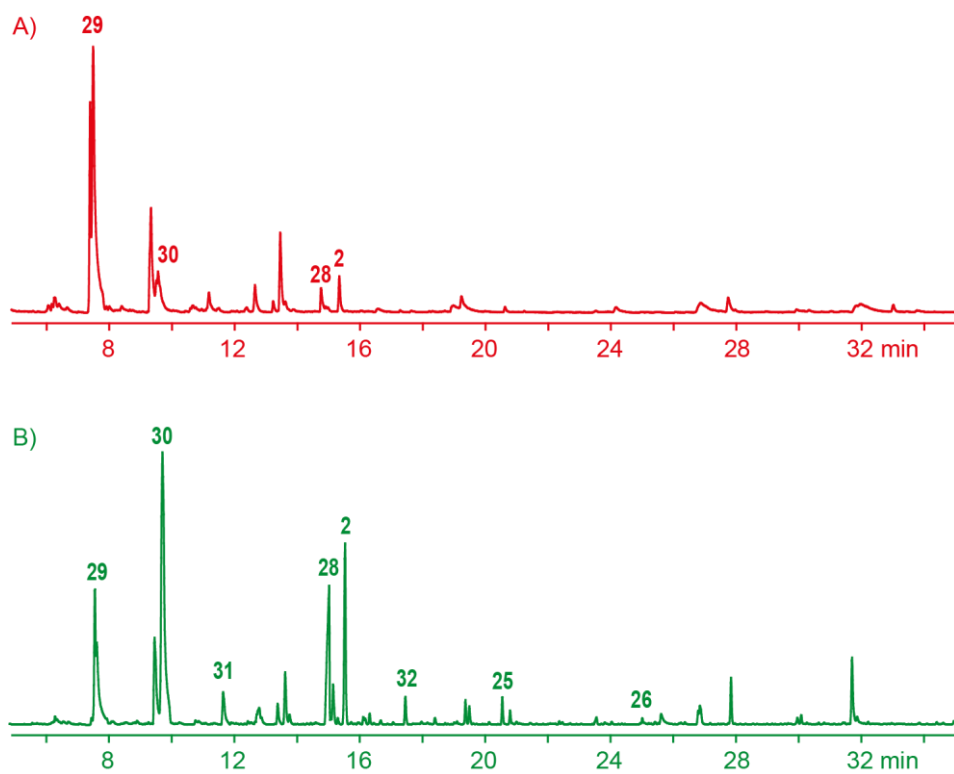
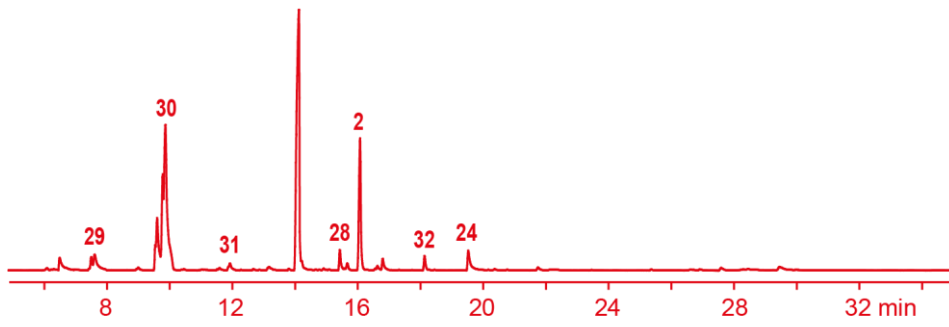


Figure S2: Total ion chromatograms of CLSA extracts obtained from feeding experiments with DAISP fed to *D. shibae* (two repetitions of experiment shown in Figure 2B of main text).

A)



B)

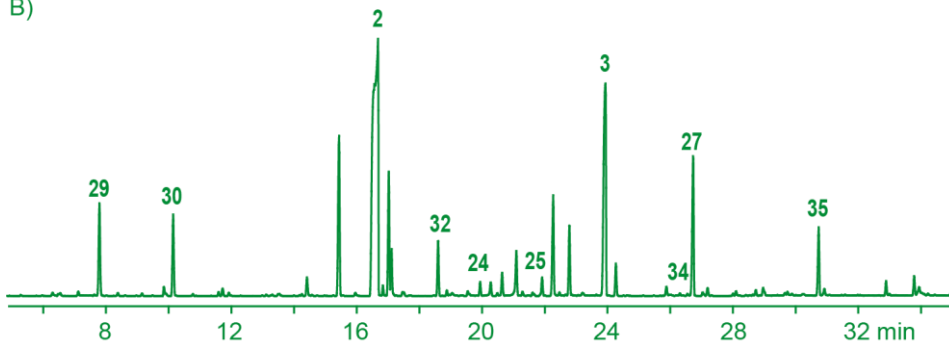


Figure S3: Total ion chromatograms of CLSA extracts obtained from feeding experiments with DAISP fed to *O. indolifex* (two repetitions of experiment shown in Figure 2C of main text).

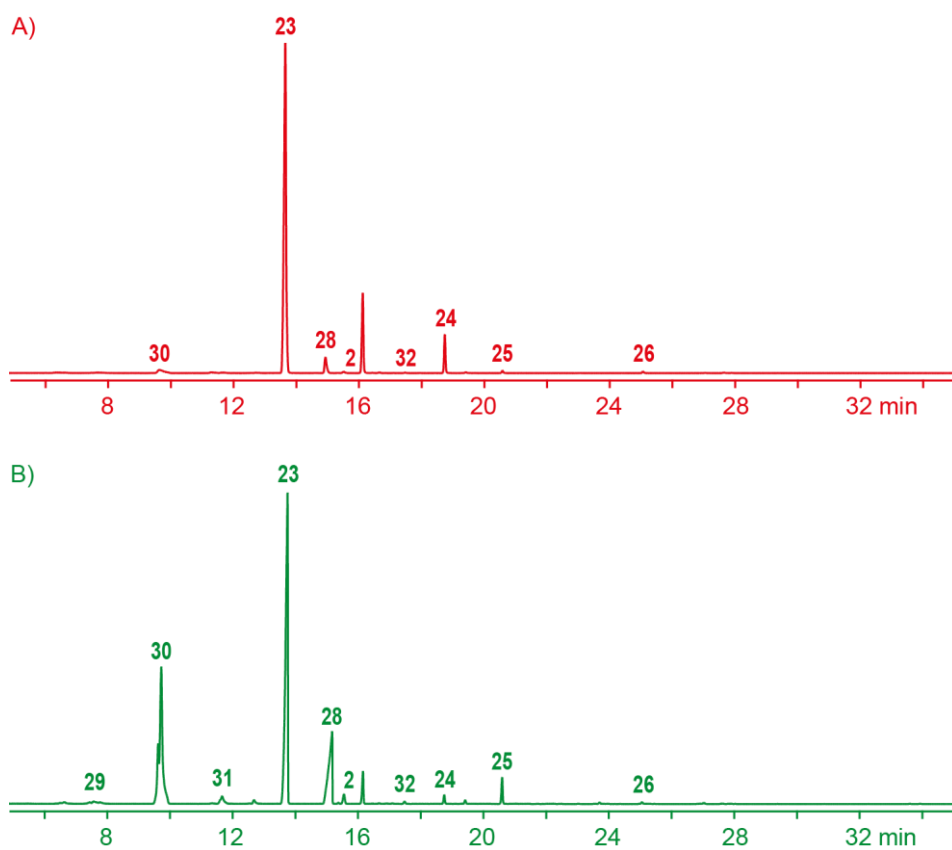


Figure S4: Total ion chromatograms of CLSA extracts obtained from feeding experiments with AIMSP fed to *P. inhibens* (two repetitions of experiment shown in Figure 4A of main text).

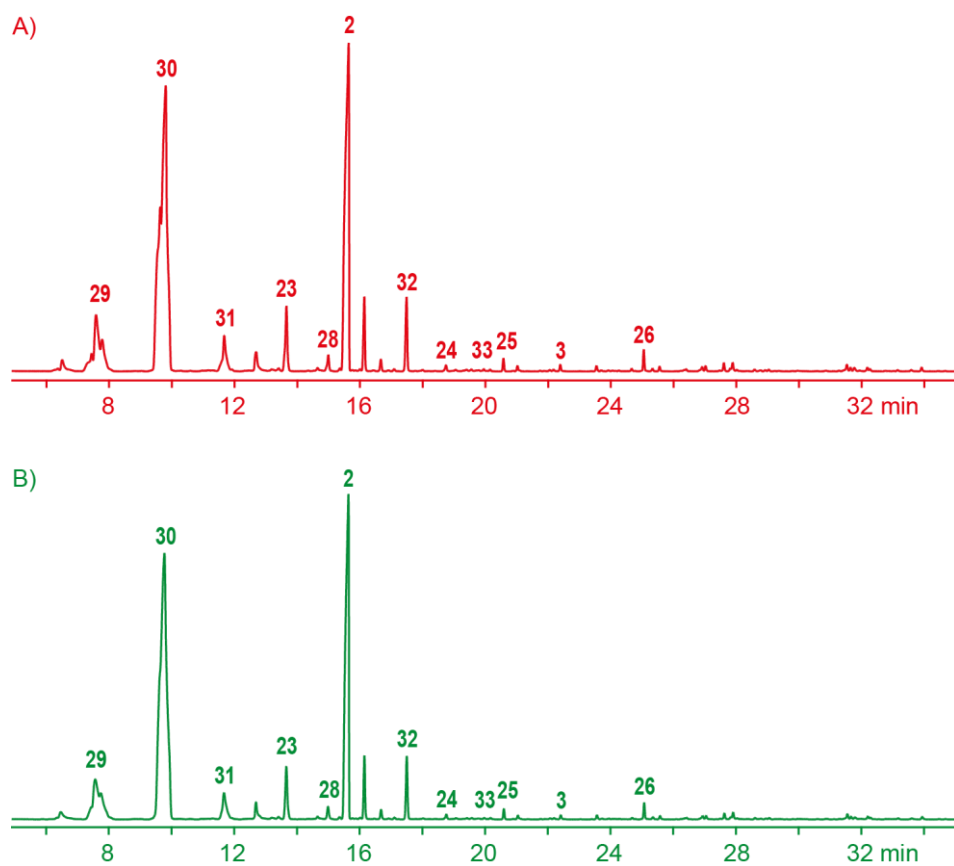


Figure S5: Total ion chromatograms of CLSA extracts obtained from feeding experiments with AllMSP fed to *D. shibae* (two repetitions of experiment shown in Figure 4B of main text).

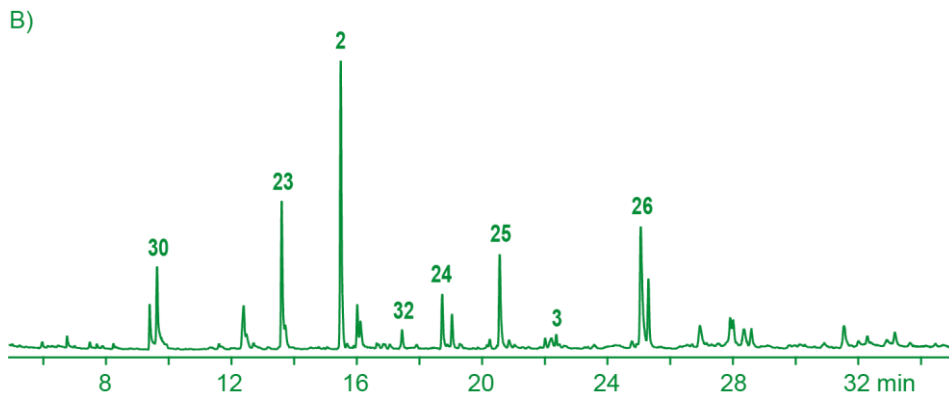
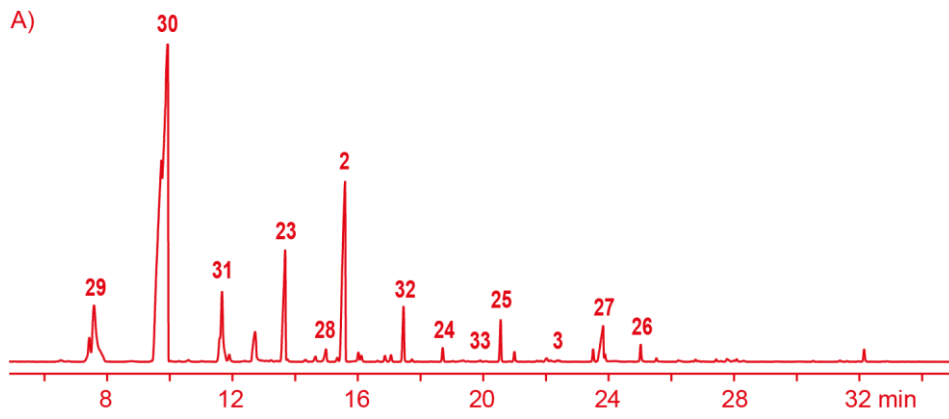


Figure S6: Total ion chromatograms of CLSA extracts obtained from feeding experiments with AllMSP fed to *O. indolifex* (two repetitions of experiment shown in Figure 4C of main text).

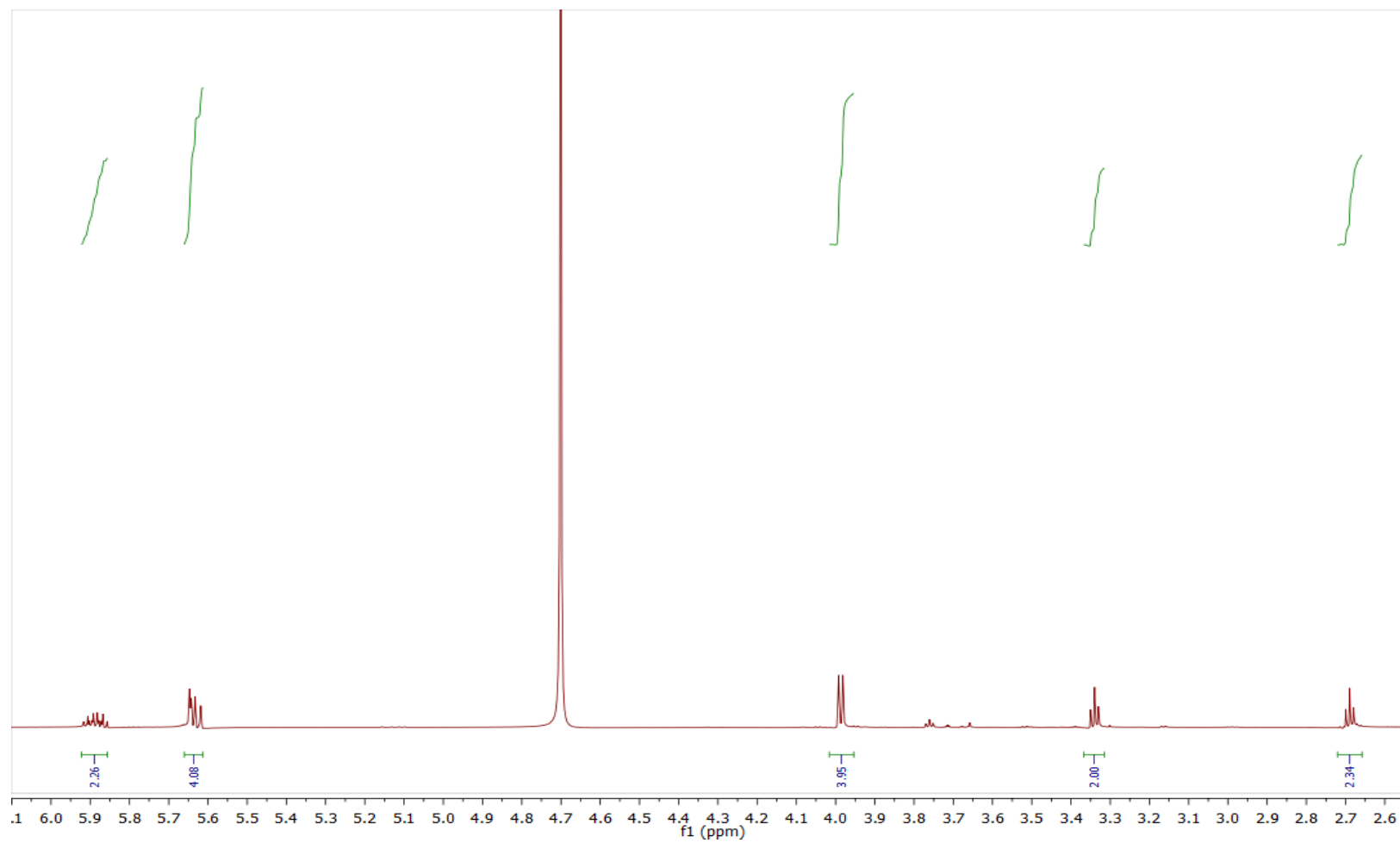


Figure S7: ^1H NMR spectrum (D_2O , 700 MHz) of DAIIISP.

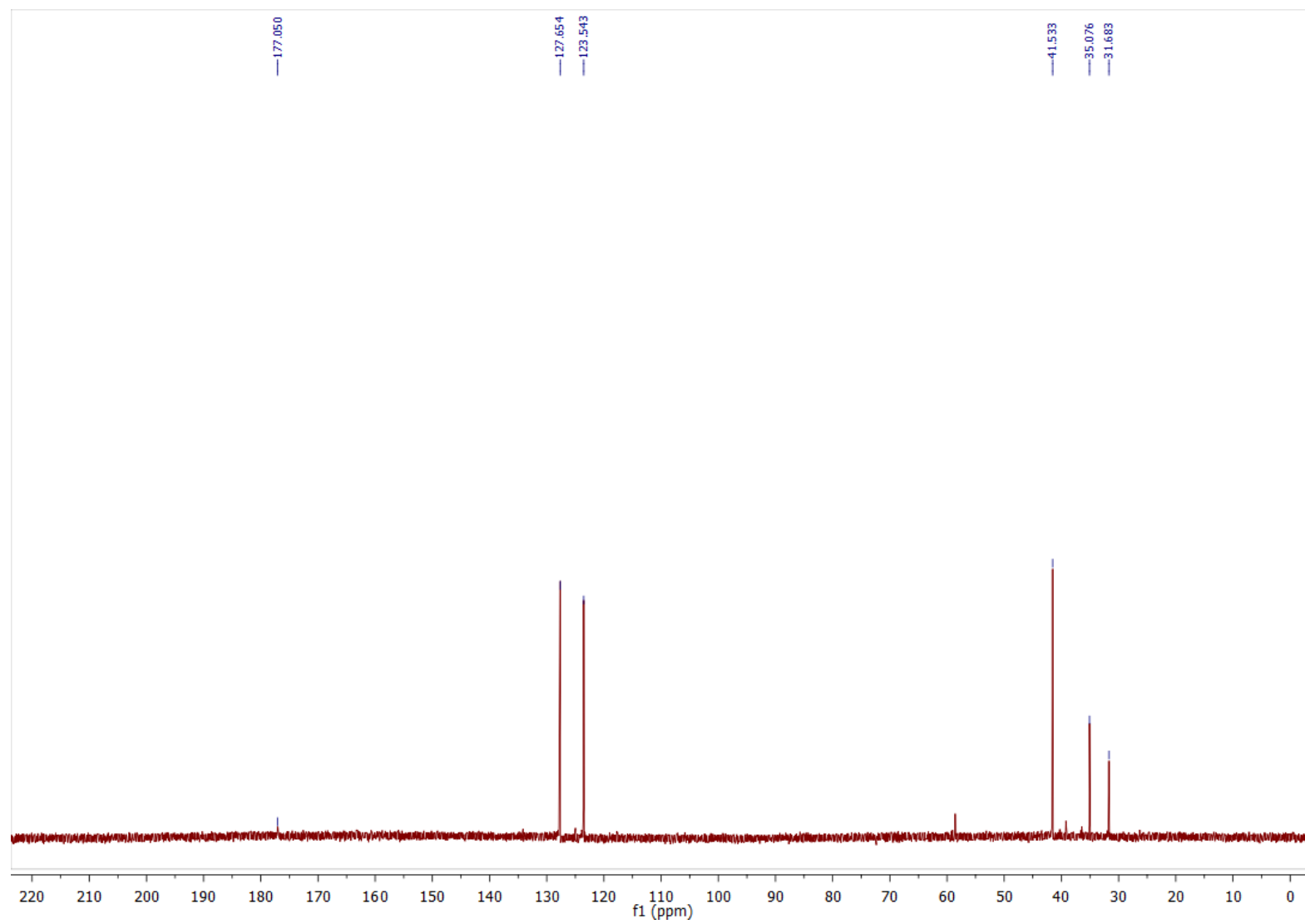


Figure S8: ^{13}C NMR spectrum (D_2O , 175 MHz) of DAISP.

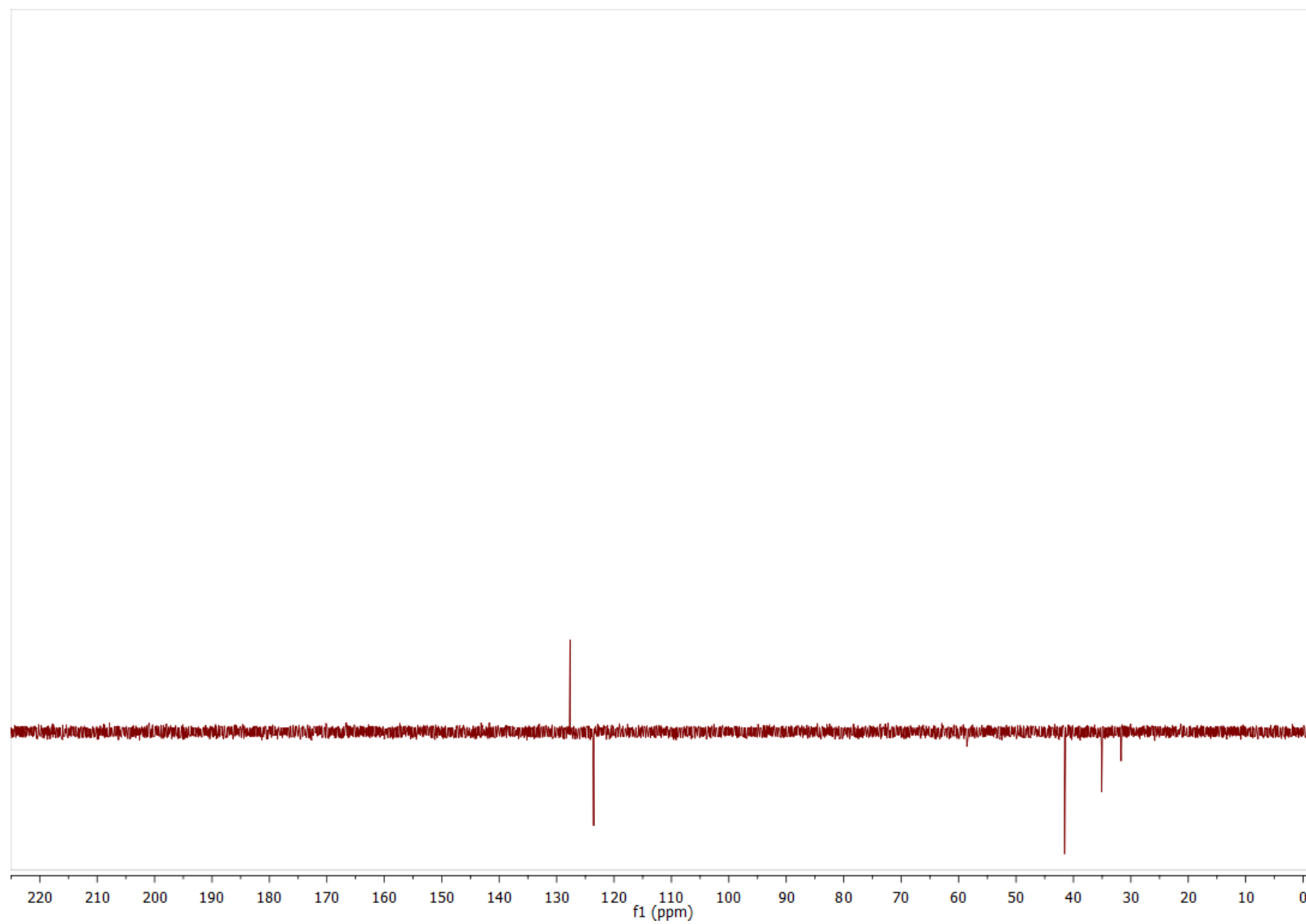


Figure S9: ^{13}C -DEPT spectrum (D_2O , 175 MHz) of DAISP.

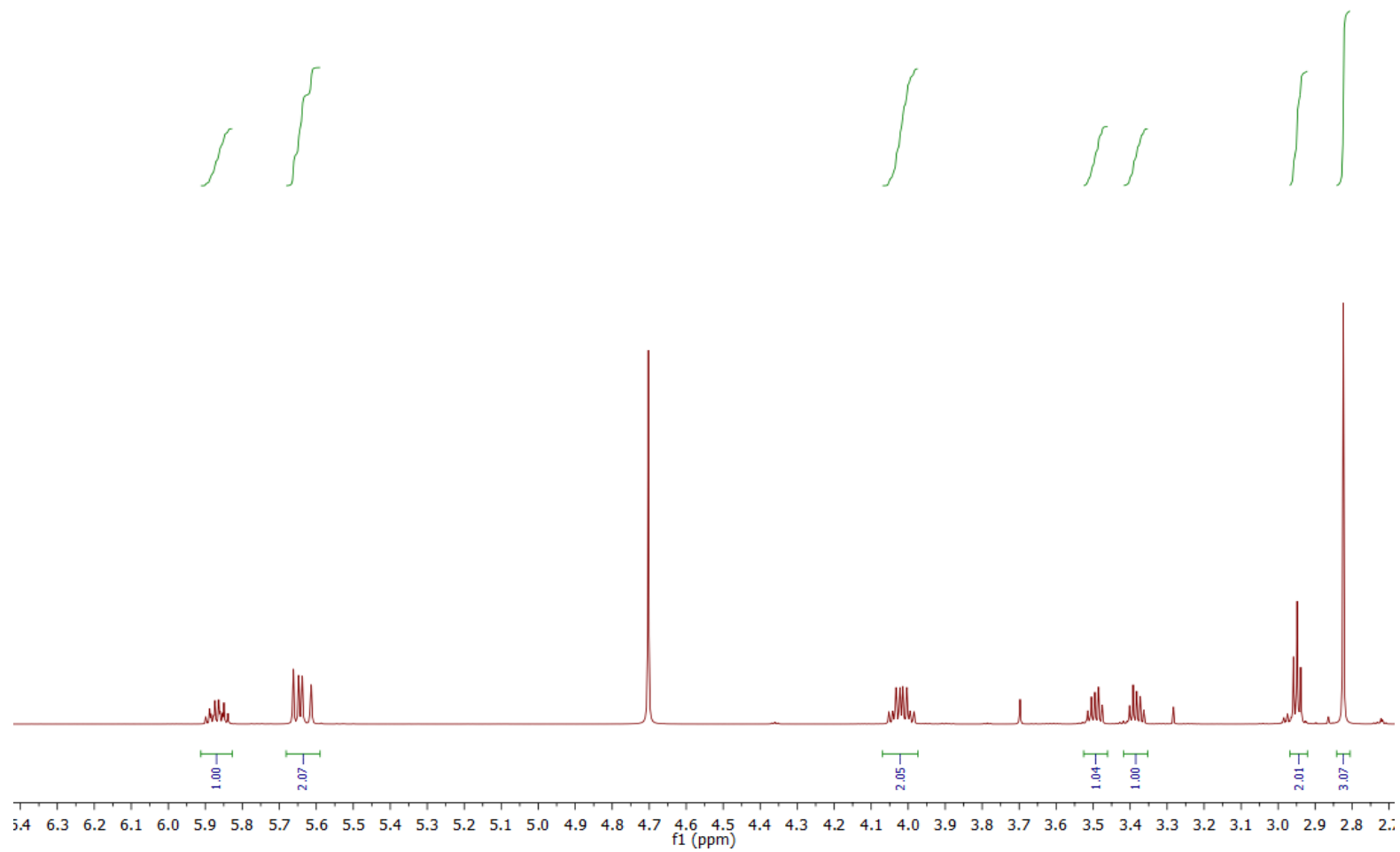


Figure S10: ^1H NMR spectrum (D_2O , 700 MHz) of AIMSP.

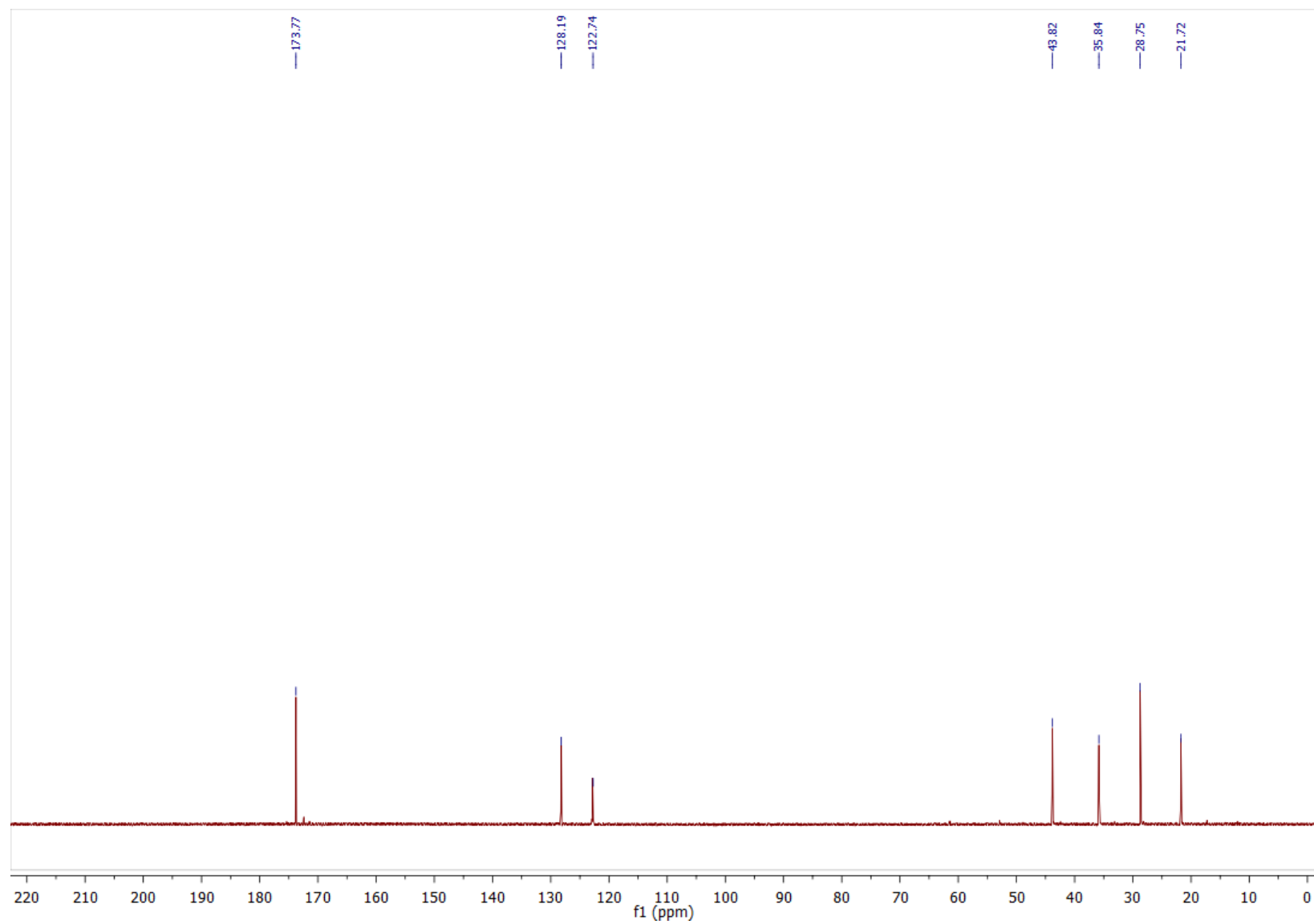


Figure S11: ^{13}C NMR spectrum (D_2O , 175 MHz) of AIMSP.

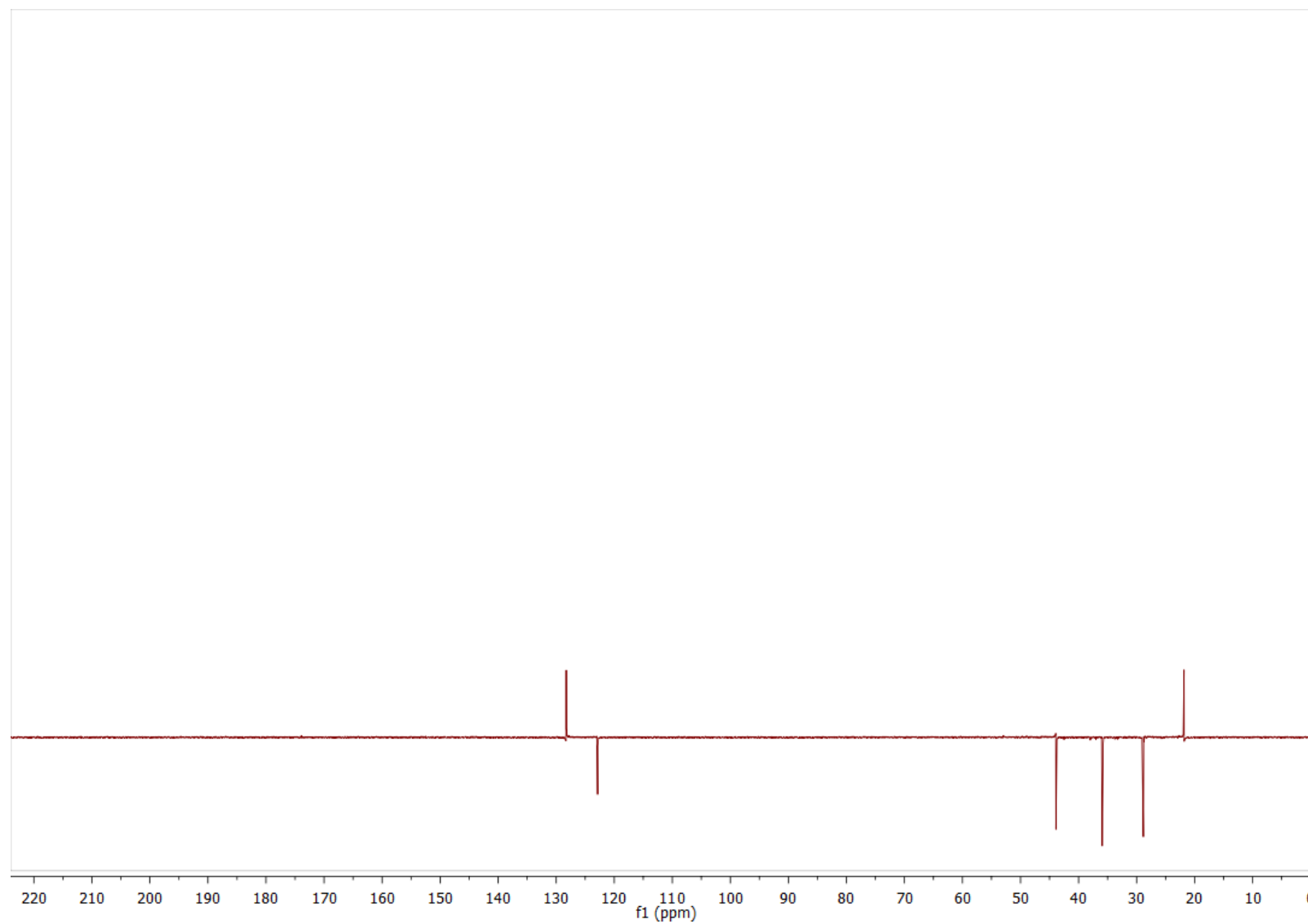


Figure S12: ^{13}C -DEPT spectrum (D_2O , 175 MHz) of AllMSP.

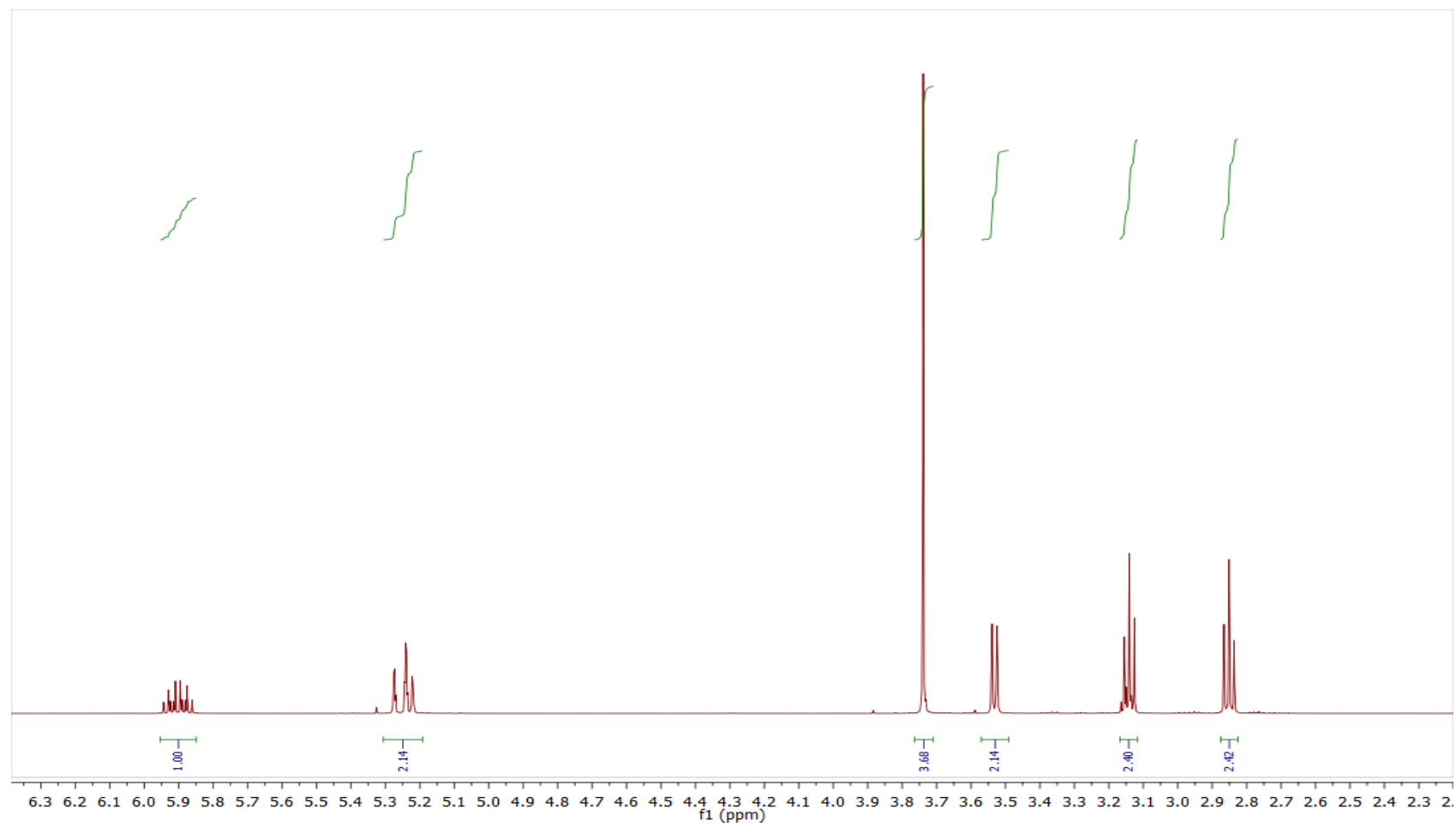


Figure S13: ¹H NMR spectrum (CDCl₃, 500 MHz) of **26**.

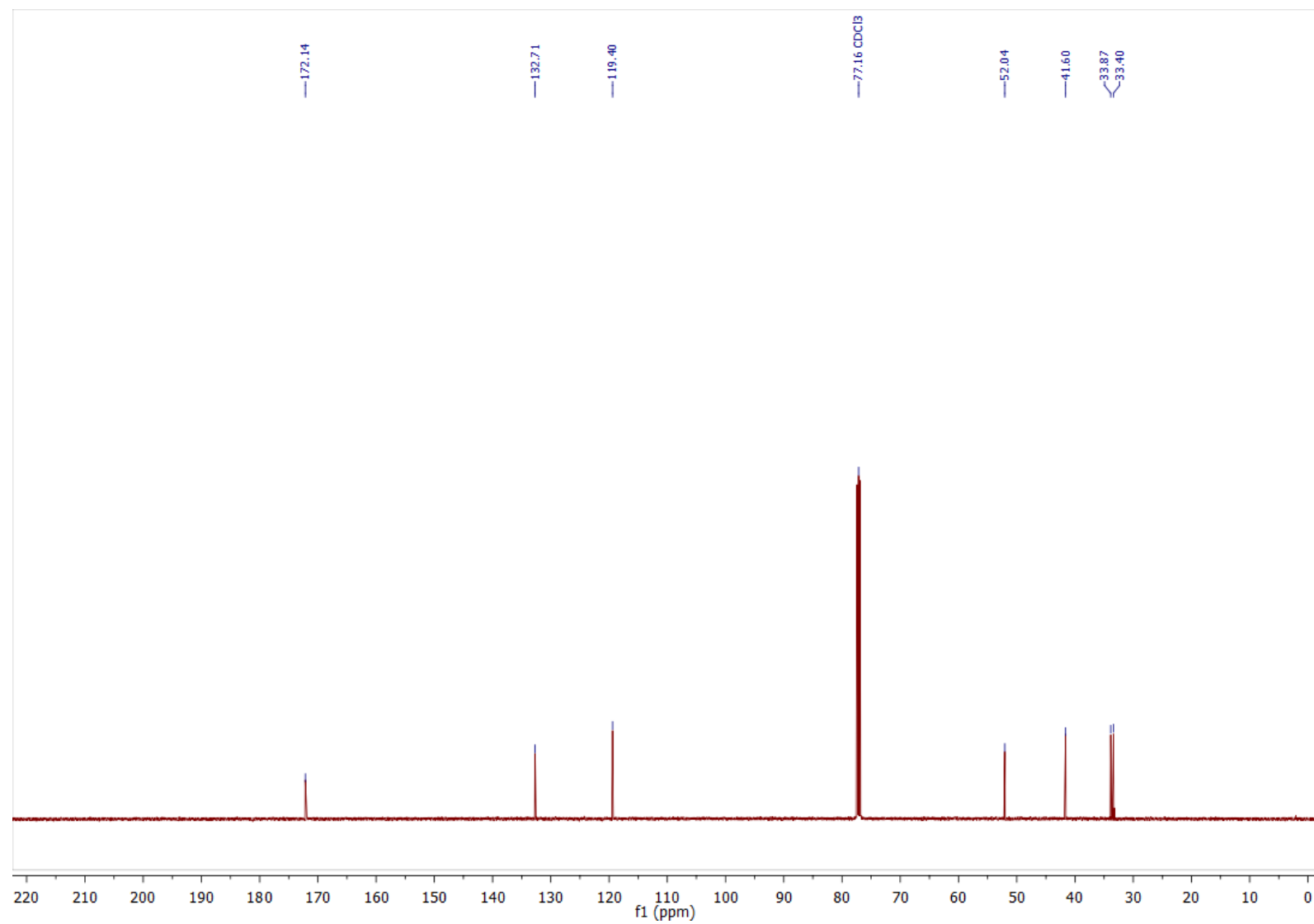


Figure S14: ^{13}C NMR spectrum (CDCl_3 , 125 MHz) of **26**.

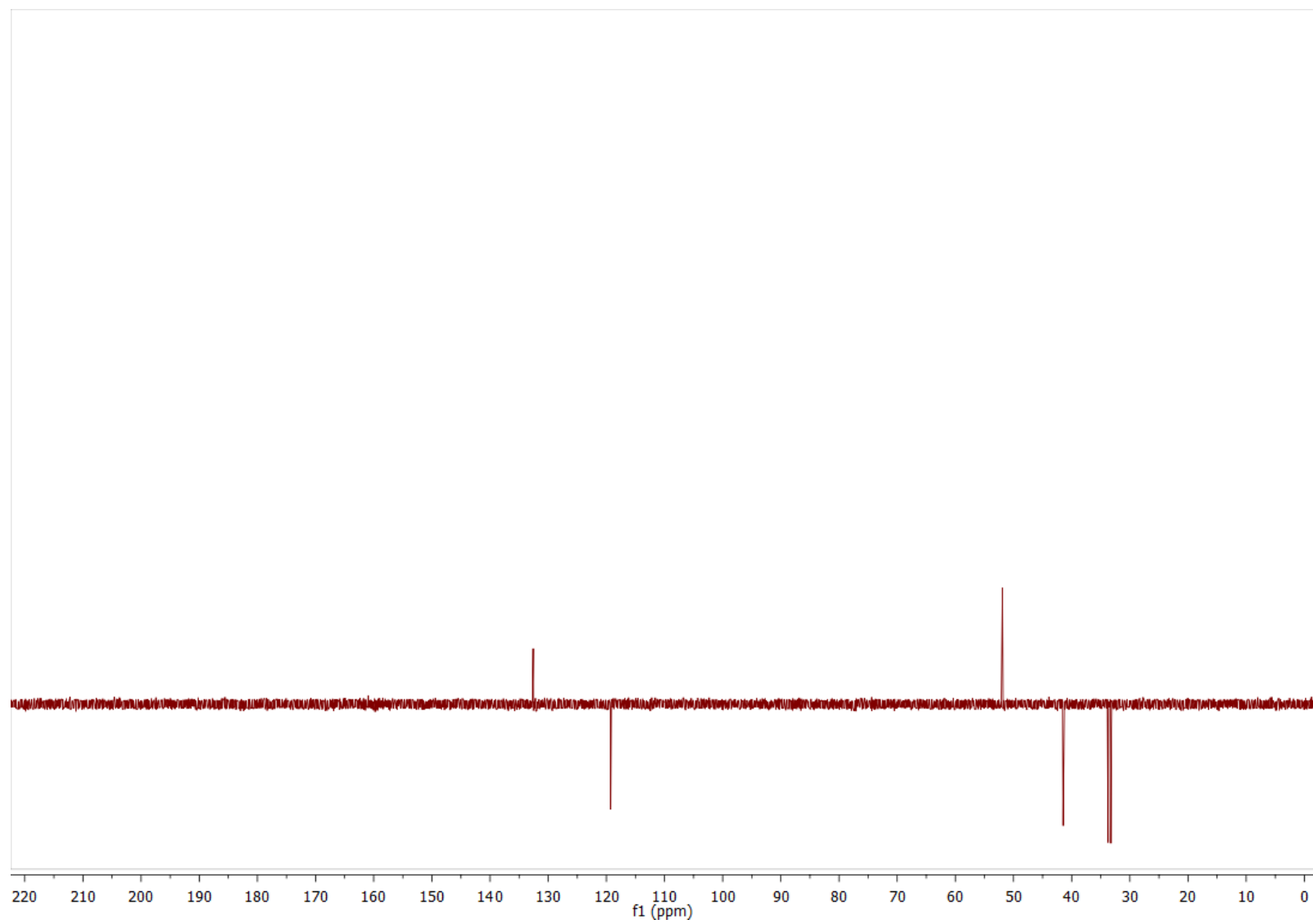


Figure S15: ^{13}C -DEPT spectrum (CDCl_3 , 125 MHz) of **26**.

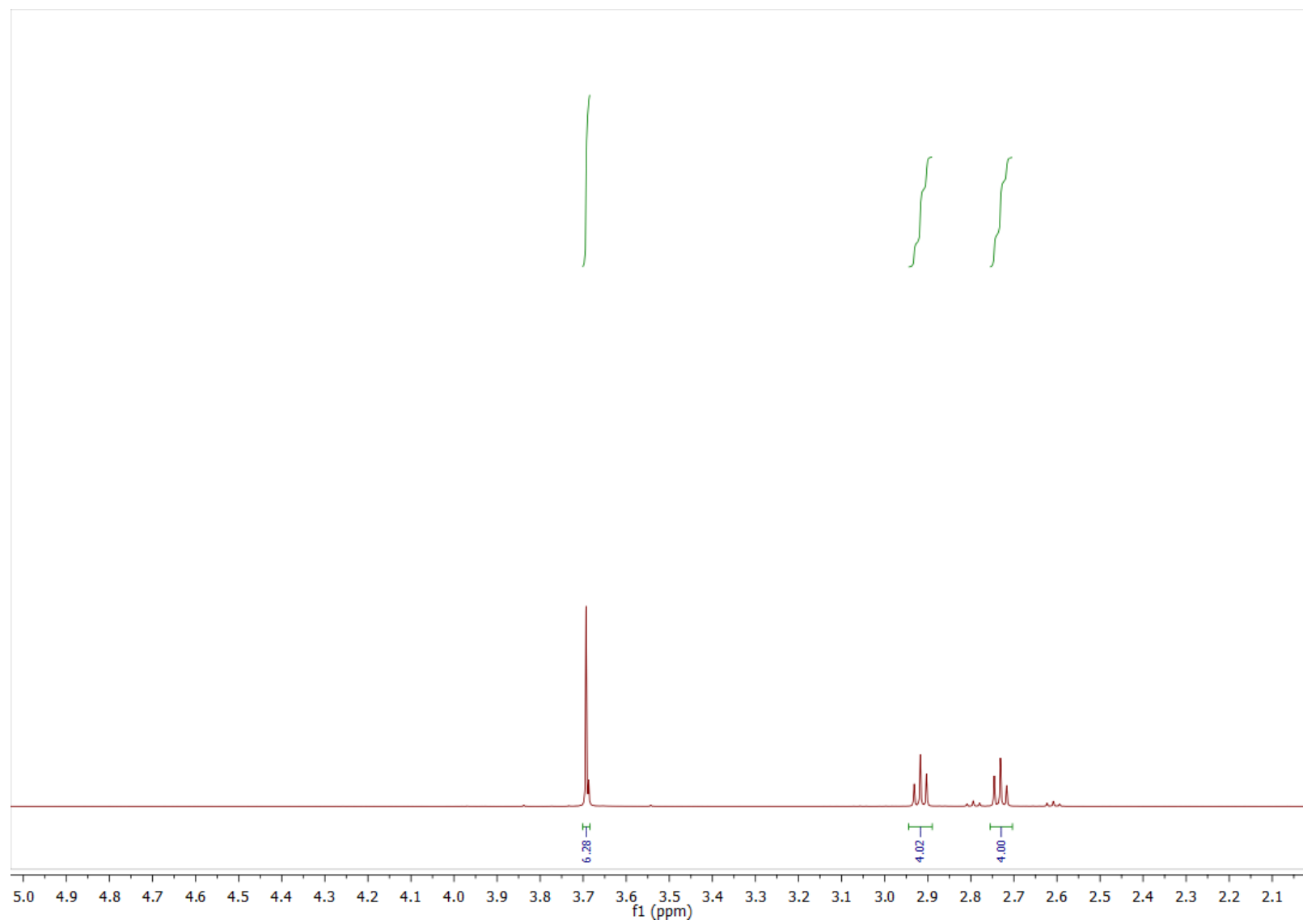


Figure S16: ^1H NMR spectrum (CDCl_3 , 500 MHz) of **40**.

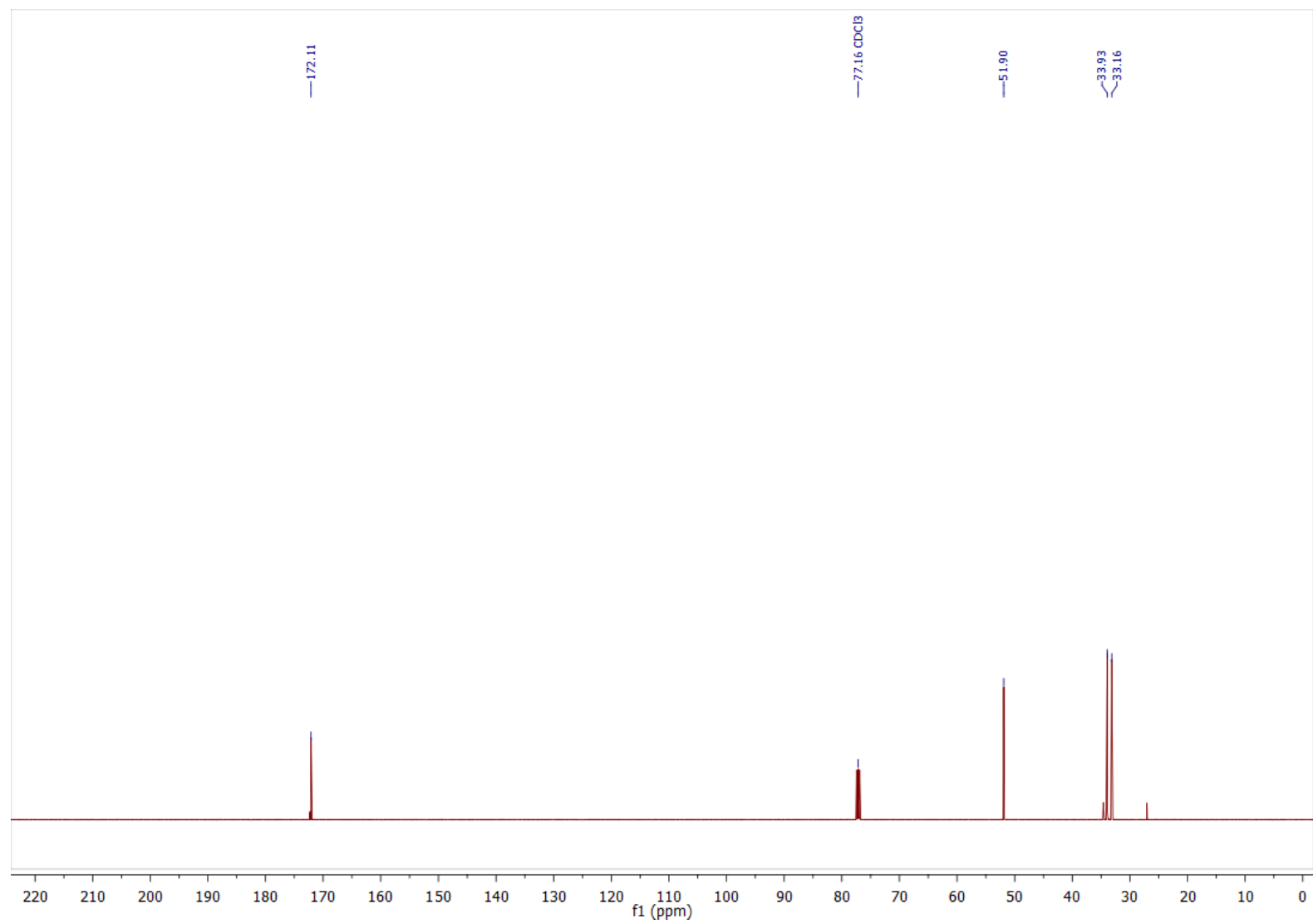


Figure S17: ^{13}C NMR spectrum (CDCl_3 , 125 MHz) of **40**.

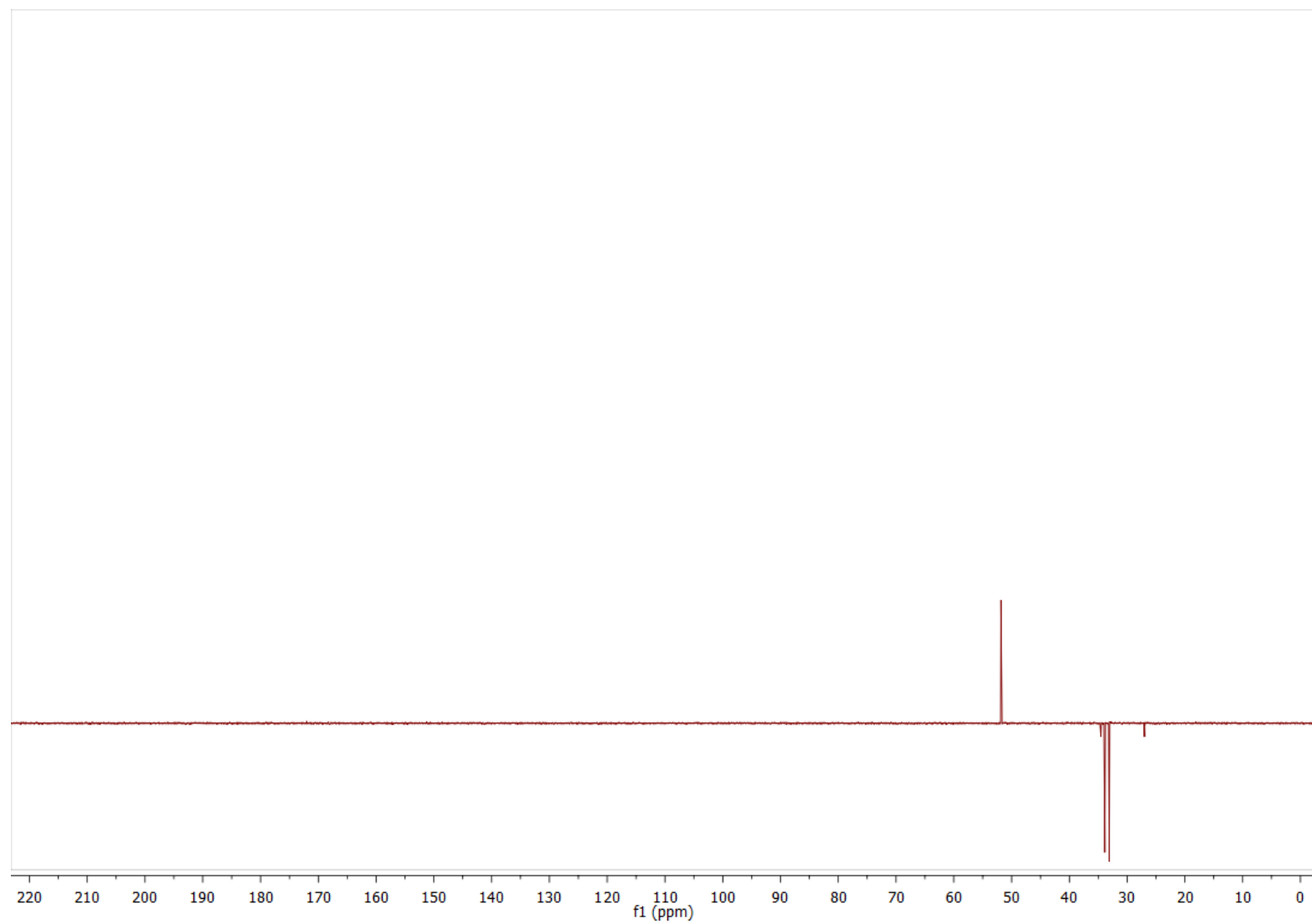


Figure S18: ^{13}C -DEPT spectrum (CDCl_3 , 125 MHz) of **40**.

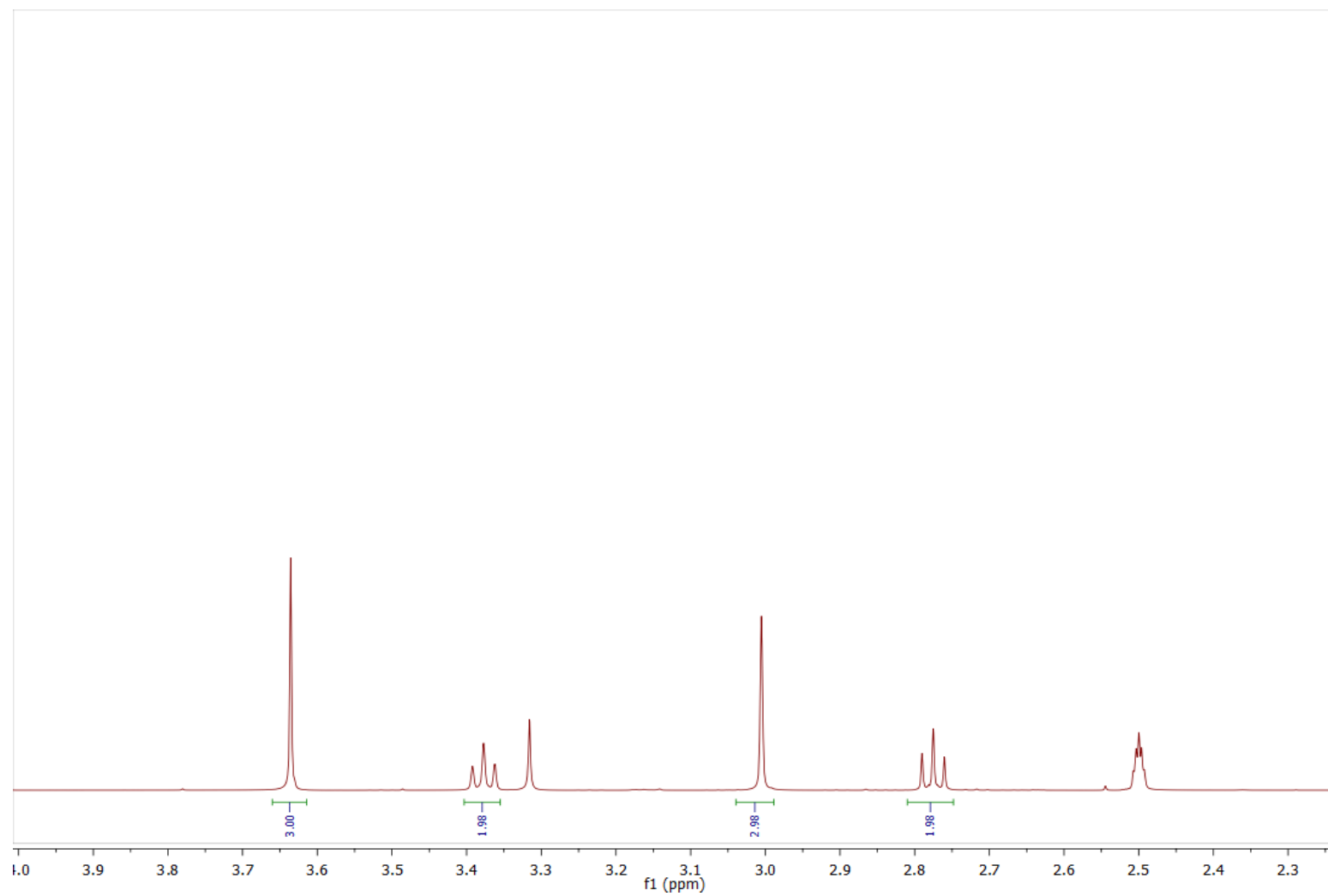


Figure S19: ^1H NMR spectrum (d_6 -DMSO, 500 MHz) of **27**.

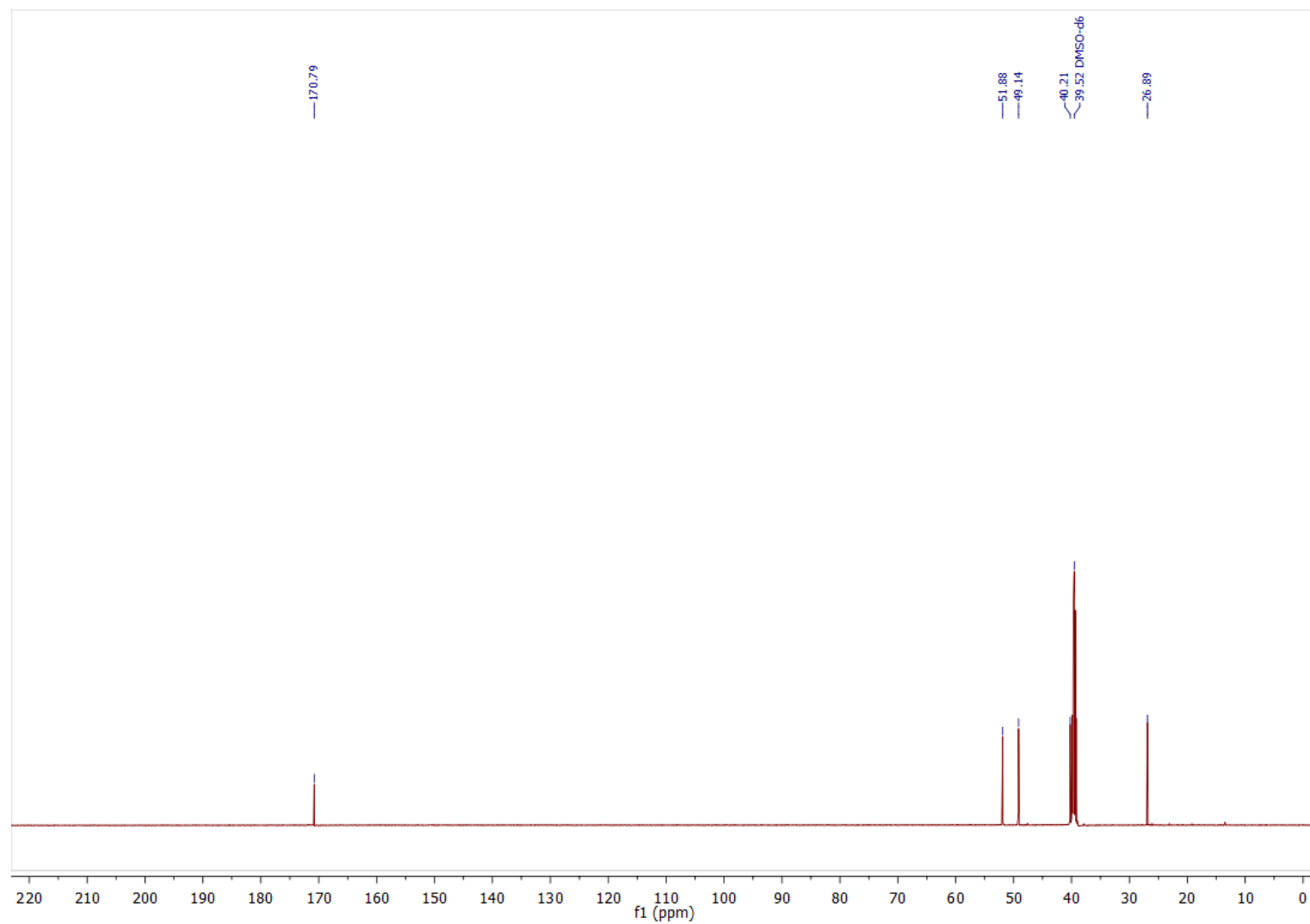


Figure S20: ^{13}C NMR spectrum (d_6 -DMSO, 125 MHz) of **27**.

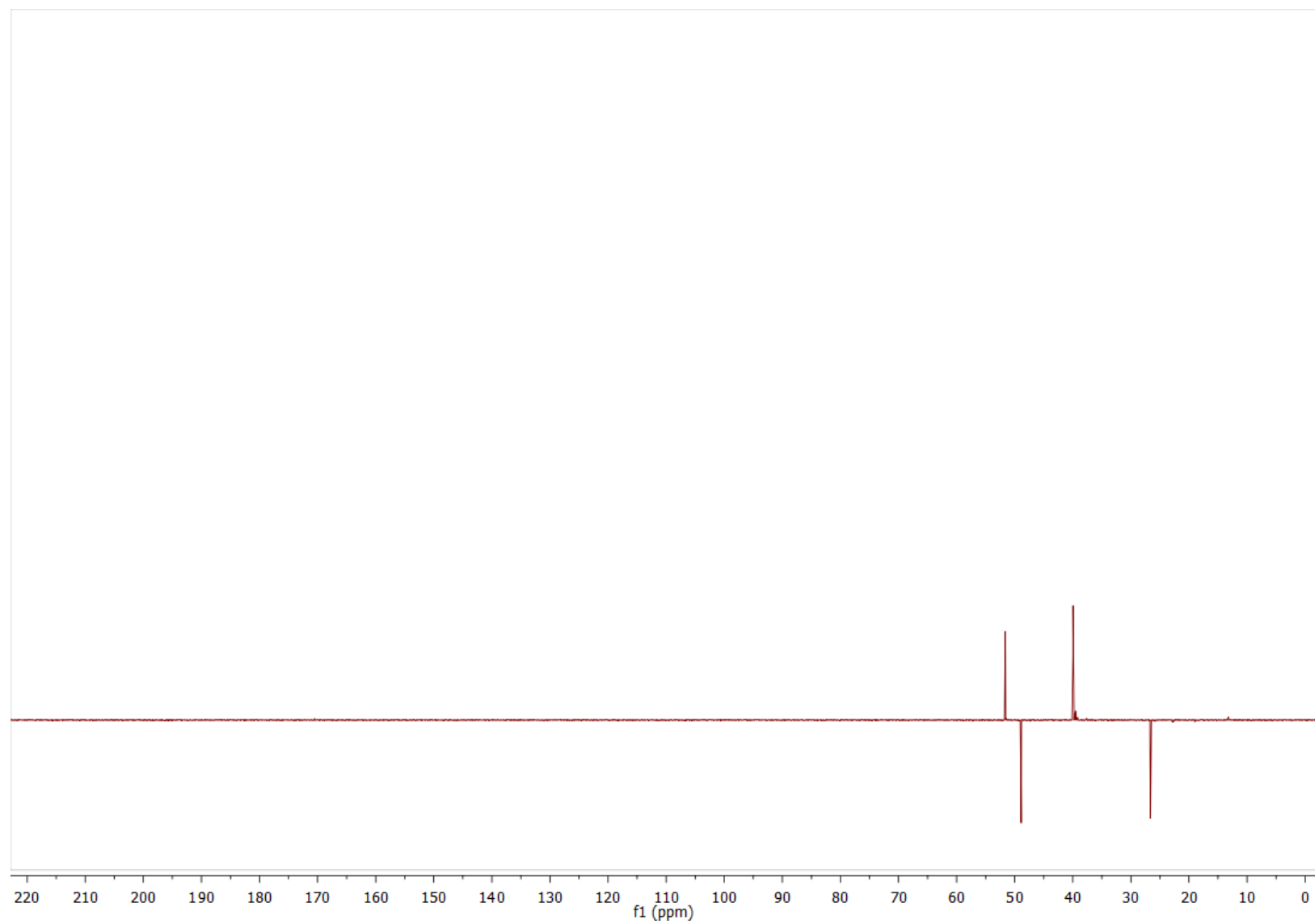


Figure S21: ^{13}C -DEPT spectrum (d_6 -DMSO, 125 MHz) of **27**.