

SUPPORTING INFORMATION

A concise stereoselective synthesis of orthogonally protected lanthionine and β -methyllanthionine derivatives

Steven L. Cobb and John C. Vederas*

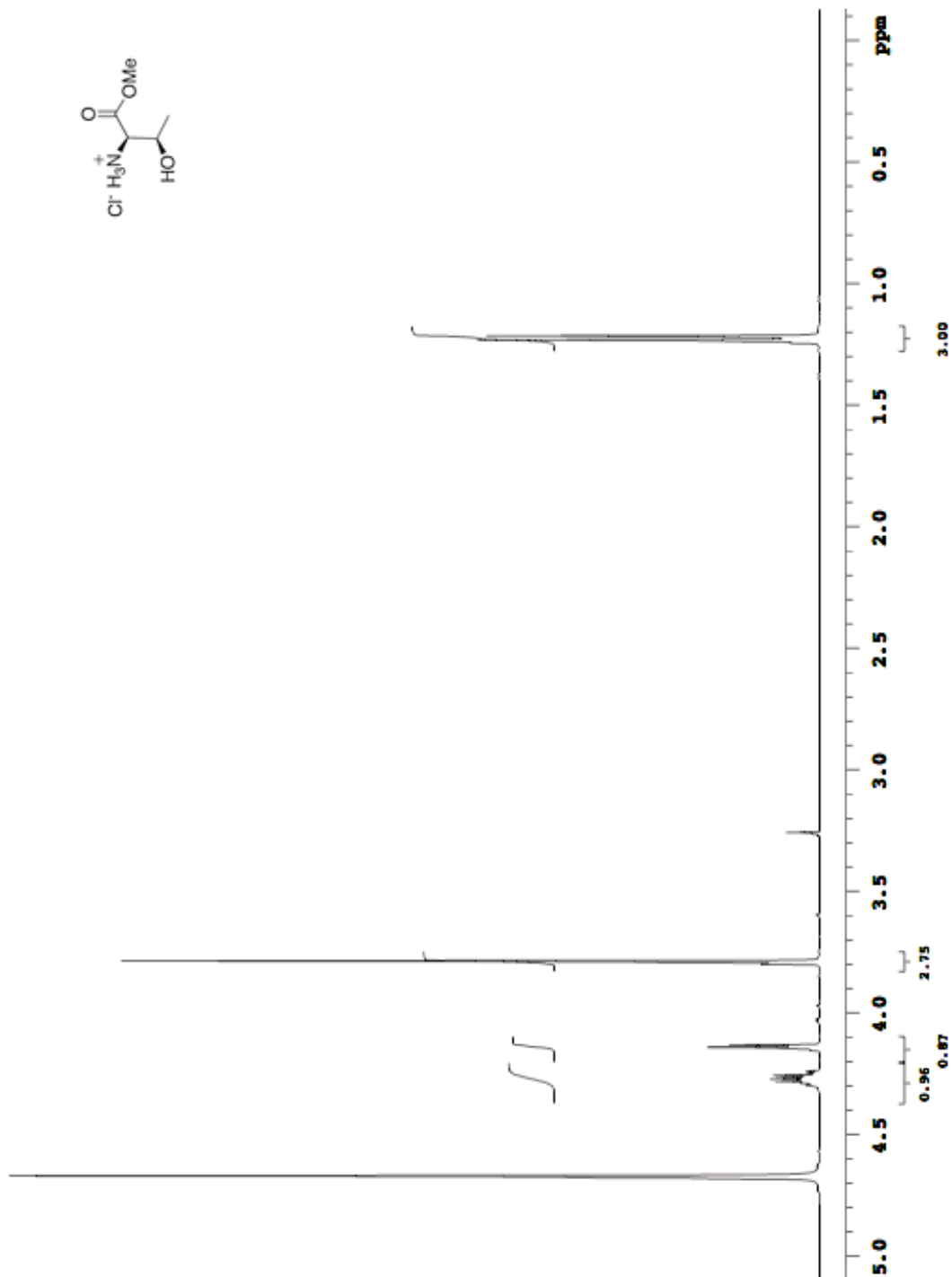
Department of Chemistry, University of Alberta, Edmonton, AB, Canada, T6G 2N8

^1H NMR and ^{13}C NMR spectra for compounds reported.

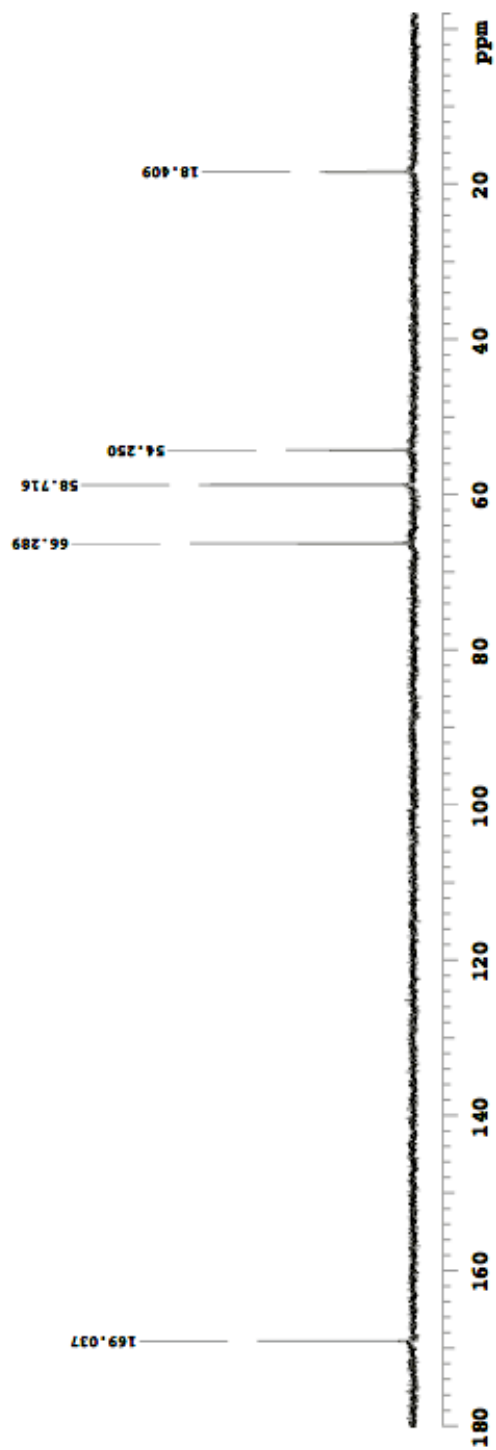
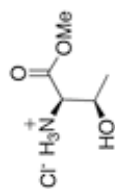
^1H NMR purity determination of **19a** and **19b**.

^1H NMR purity determination of **20a** and **20b**.

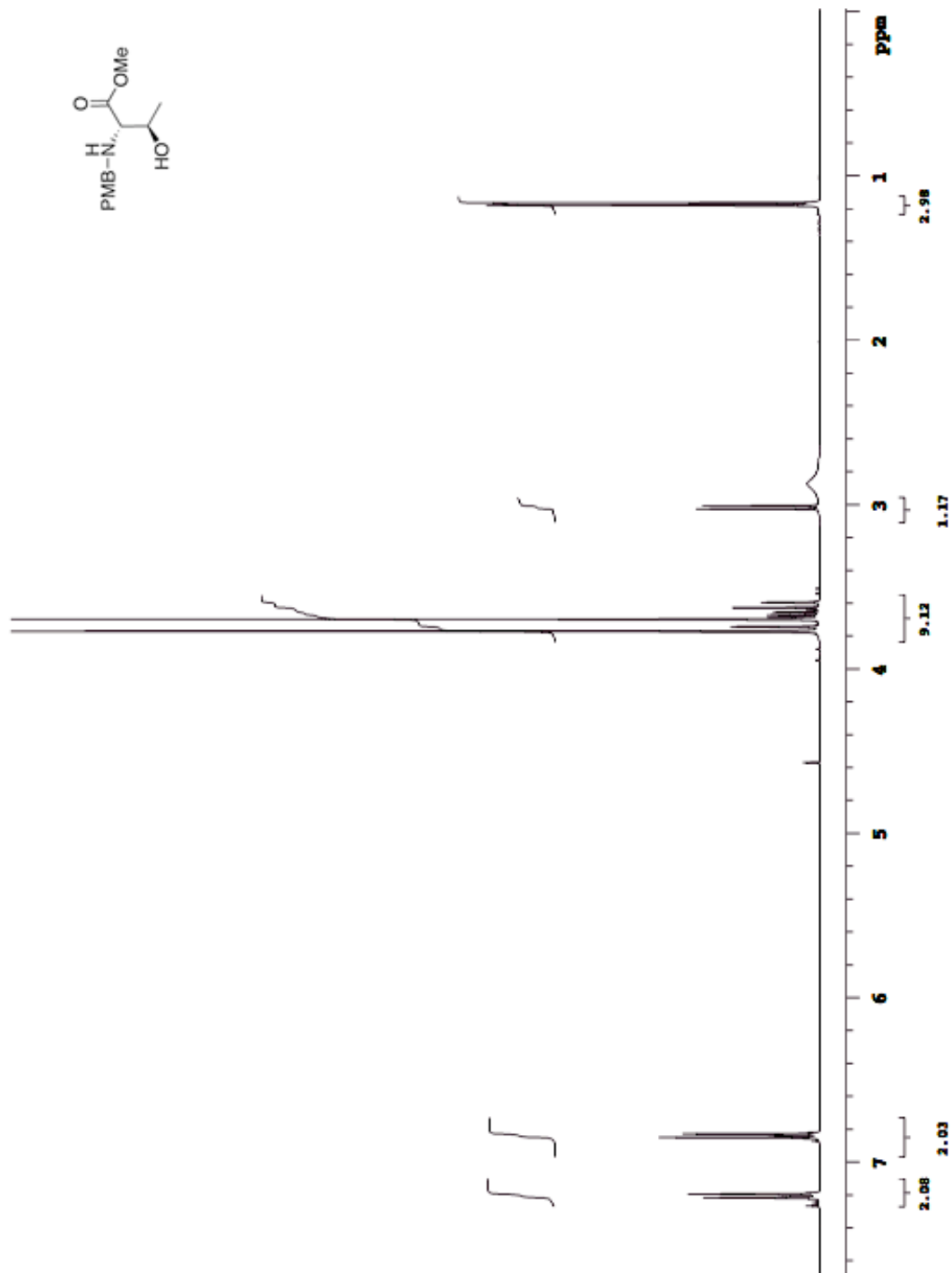
400 MHz 1D in D2O (ref. to 0.1 % ext. acetone d 2.225 ppm), temp 27.0 C -> actual temp = 27.0 C, m400gs probe



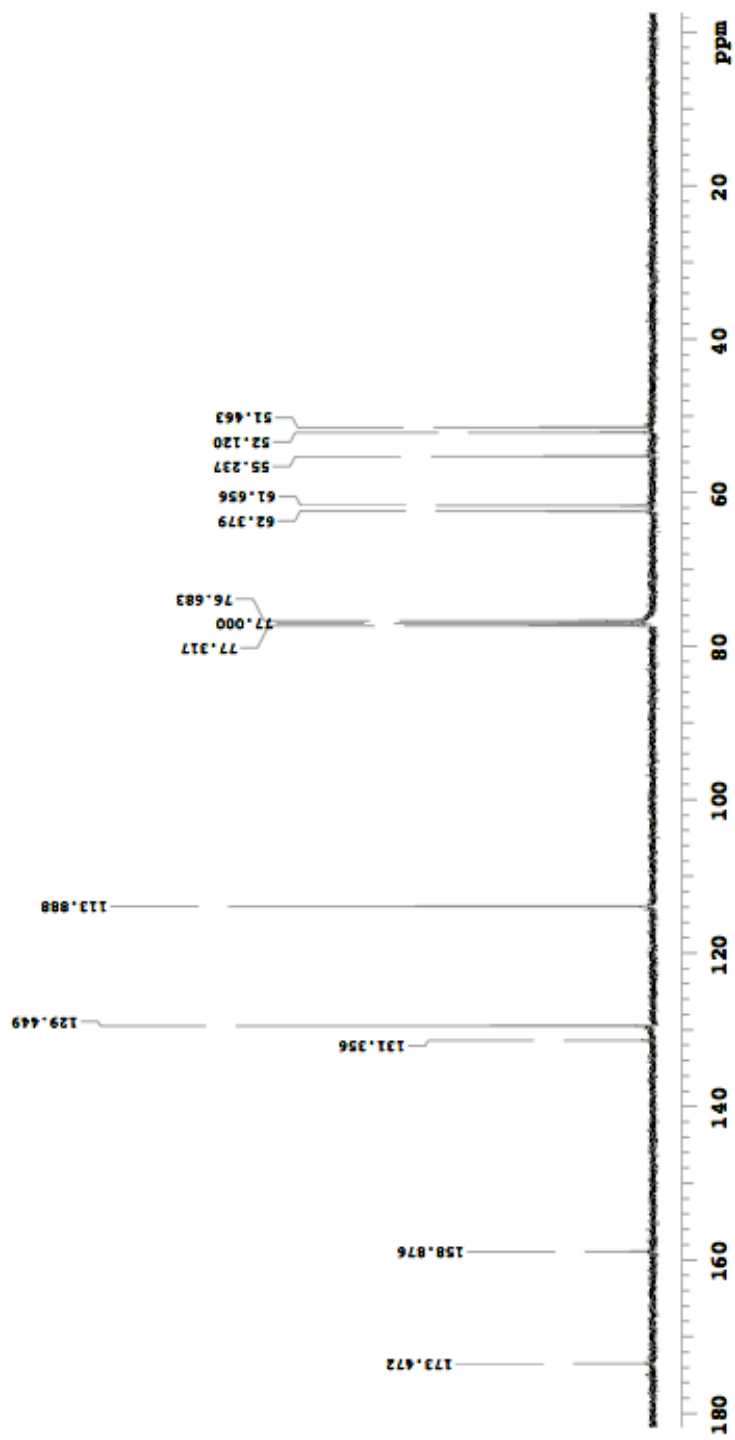
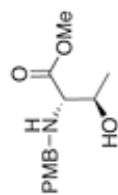
100 MHz 1D ¹³C in D₂O (ref. to 13 acetone @ 31.07 ppm), temp 27.0 C -> actual temp = 27.0 C, m400gx probe



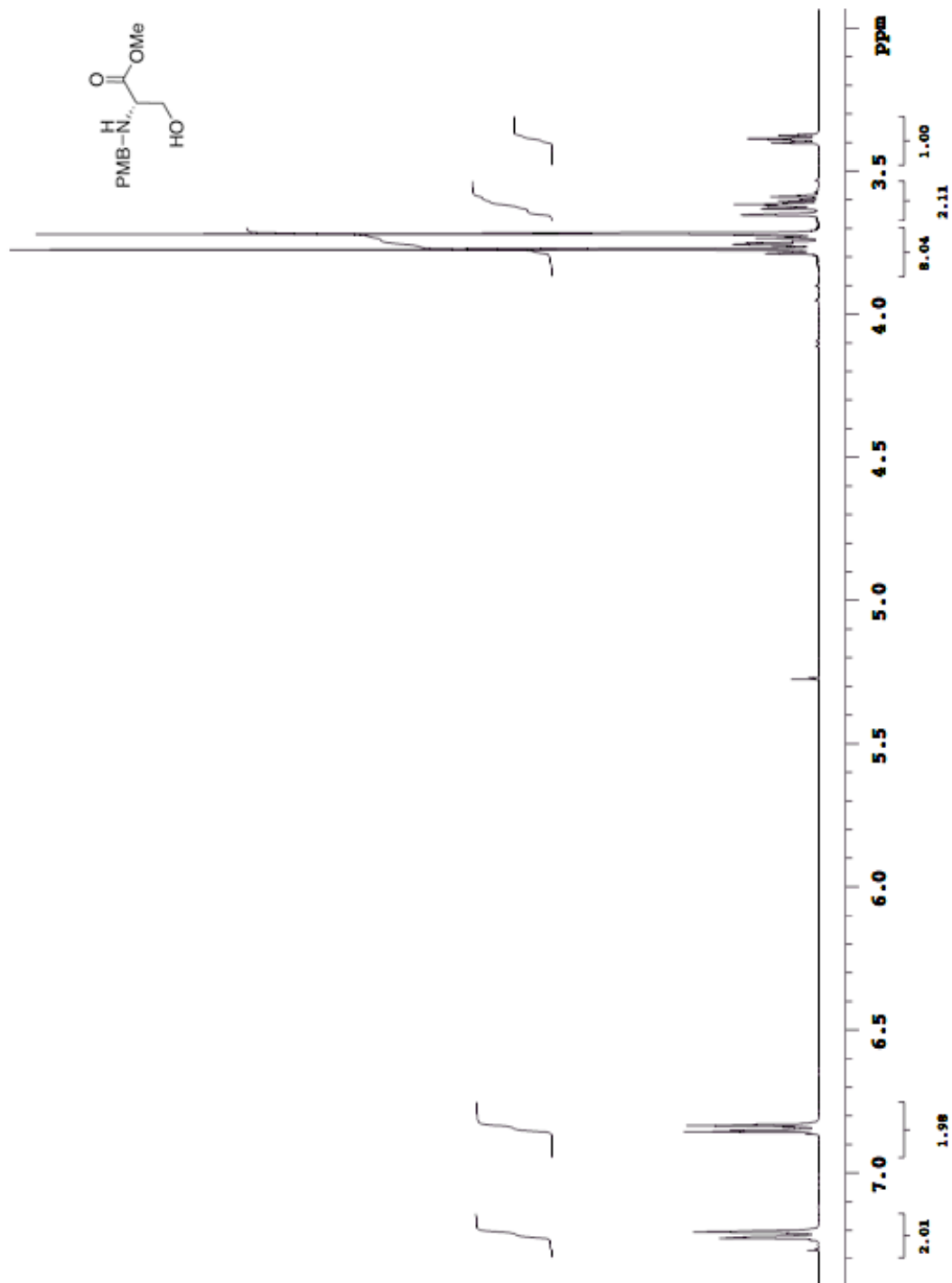
400 MHz 1D in CDCl₃ (ref. to CDCl₃ @ 7.26 ppm), temp 27.0 C -> actual temp = 27.0 C, m400gs probe



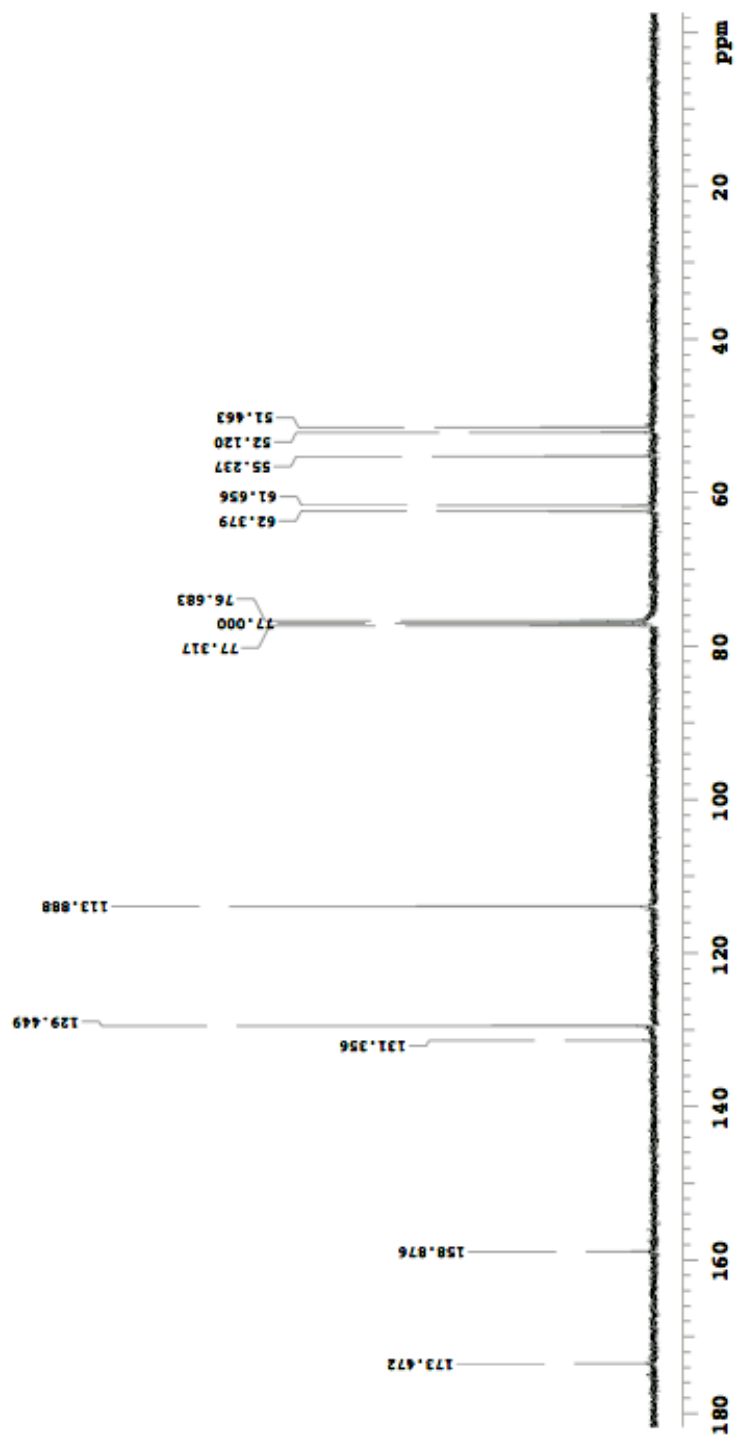
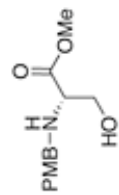
100 MHz 1D ¹³C in CDCl₃ (ref. to CDCl₃ @ 77.0 ppm), temp 27.0 C -> actual temp = 27.0 C, m400gs probe



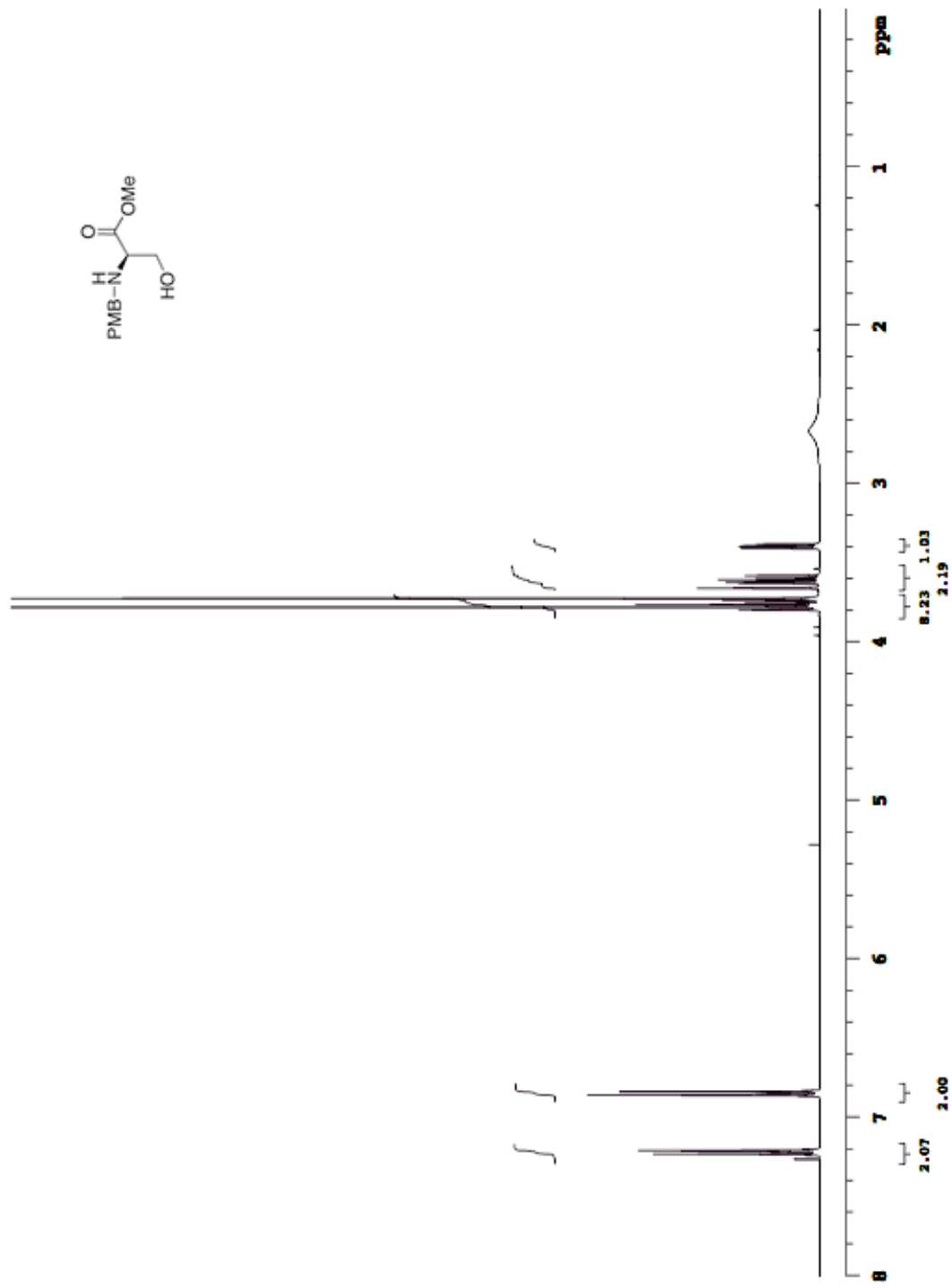
400 MHz 1D in CDCl₃ (ref. to CDCl₃ @ 7.26 ppm), temp 27.0 C → actual temp = 27.0 C, m400gs probe



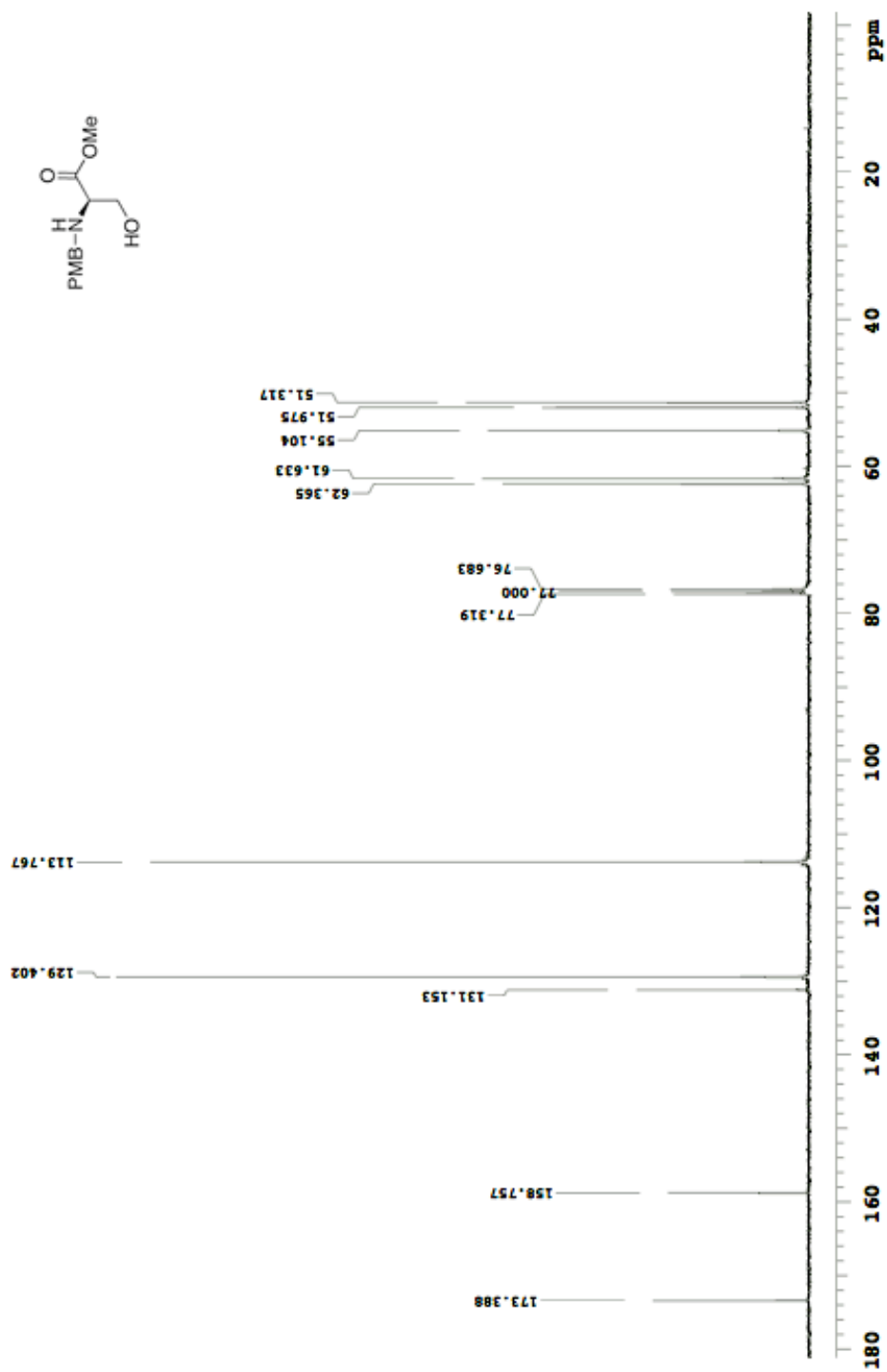
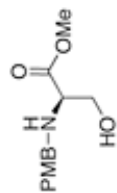
100 MHz 1D ¹³C in CDCl₃ (ref. to CDCl₃ @ 77.0 ppm), temp 27.0 °C -> actual temp = 27.0 °C, m400gs probe



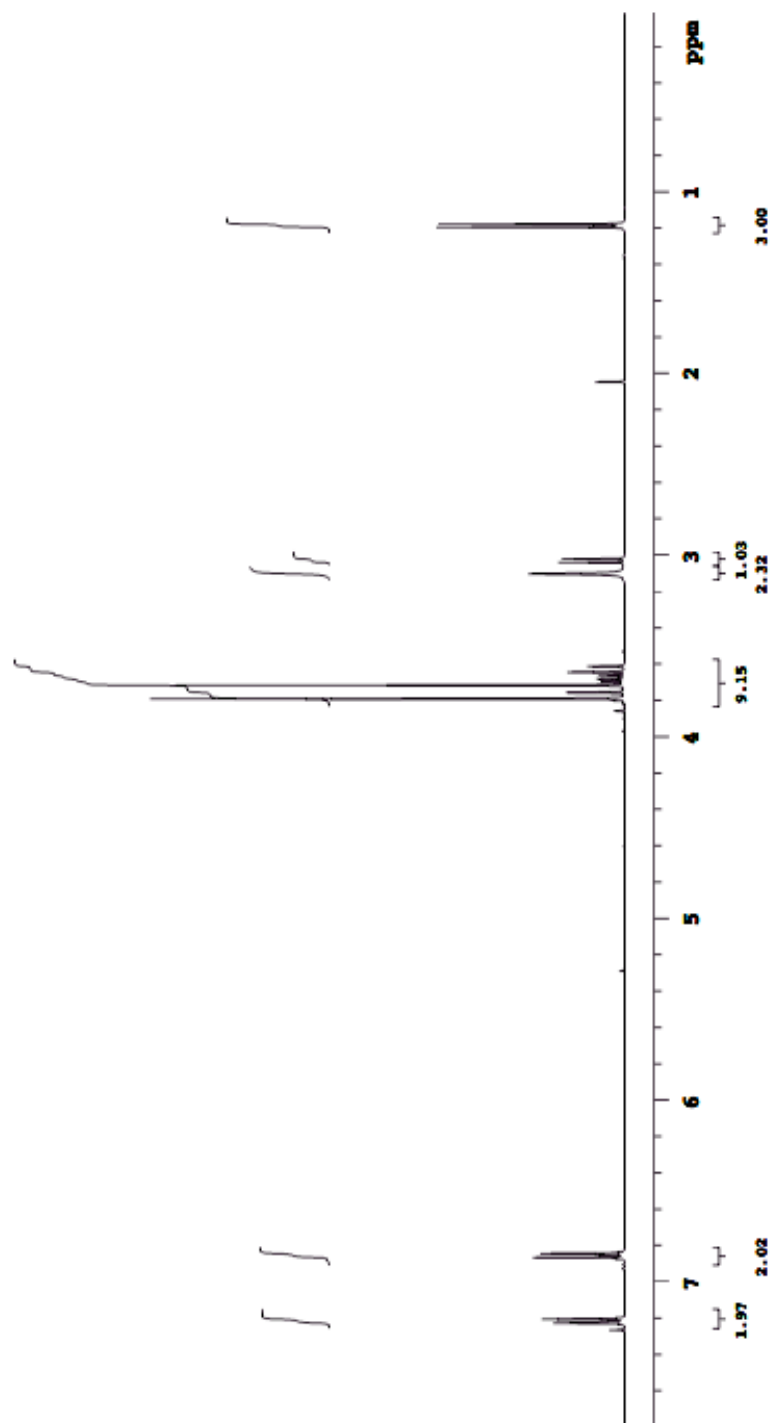
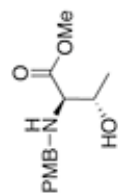
400 MHz 1D in CDCl₃ (ref. to CDCl₃ @ 7.26 ppm), temp 27.0 C -> actual temp = 27.0 C, m400gs probe



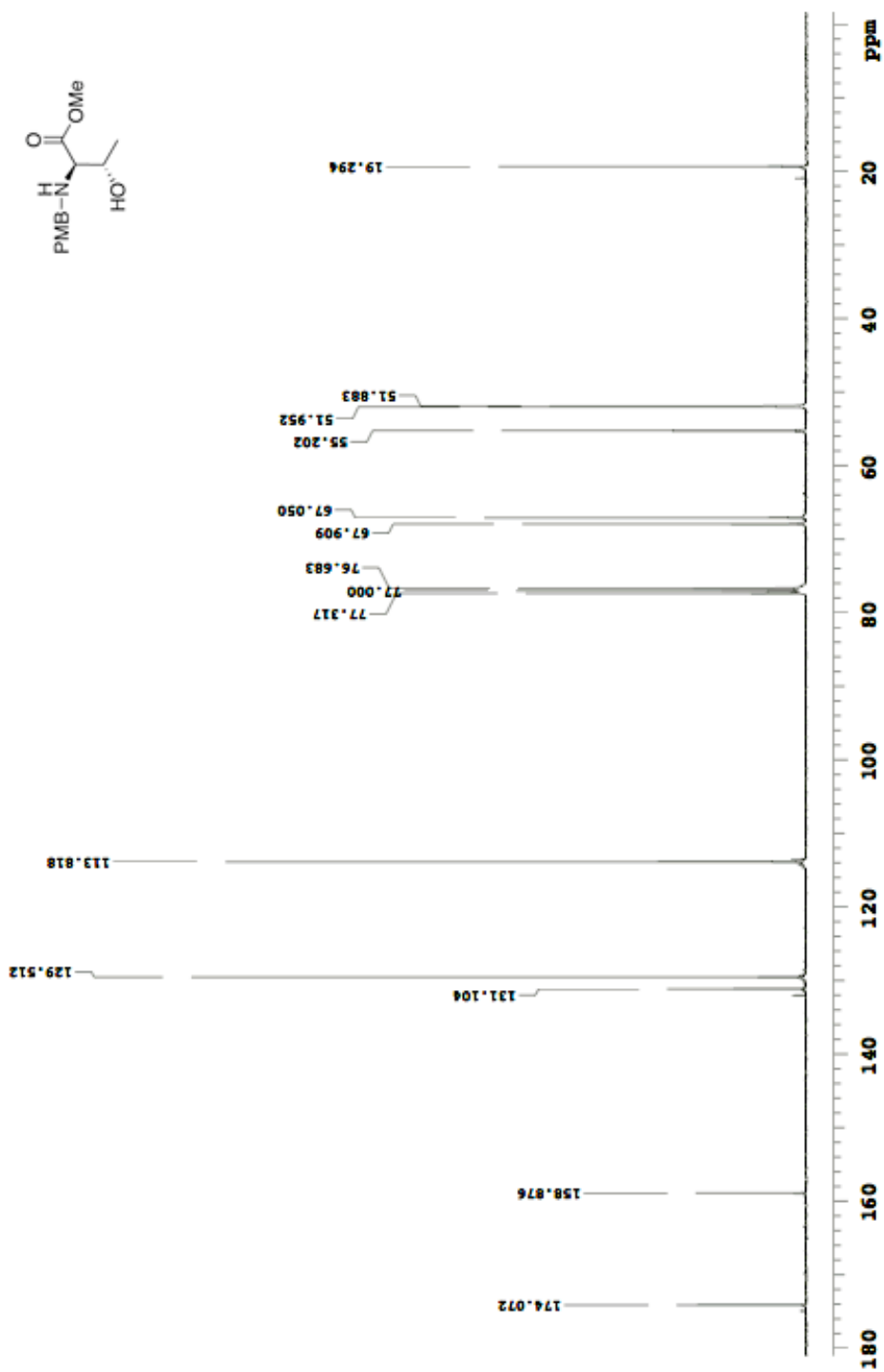
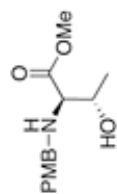
100 MHz 1D ¹³C in CDCl₃ (ref. to CDCl₃ @ 77.0 ppm), temp 27.0 °C -> actual temp = 27.0 °C, m400gk probe



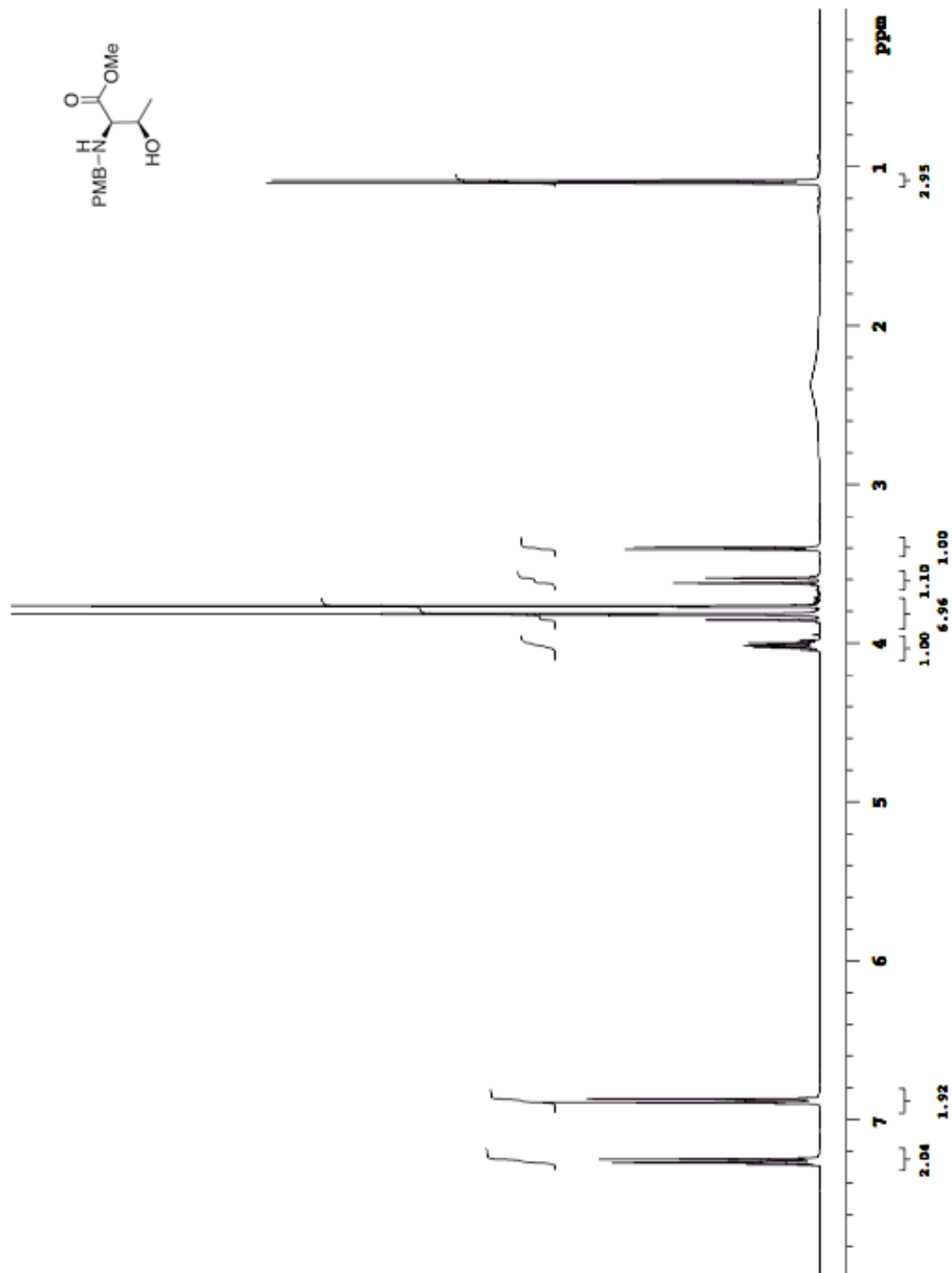
400 MHz 1D in CDCl₃ (ref. to CDCl₃ @ 7.26 ppm), temp 27.0 C → actual temp = 27.0 C, m400gs probe



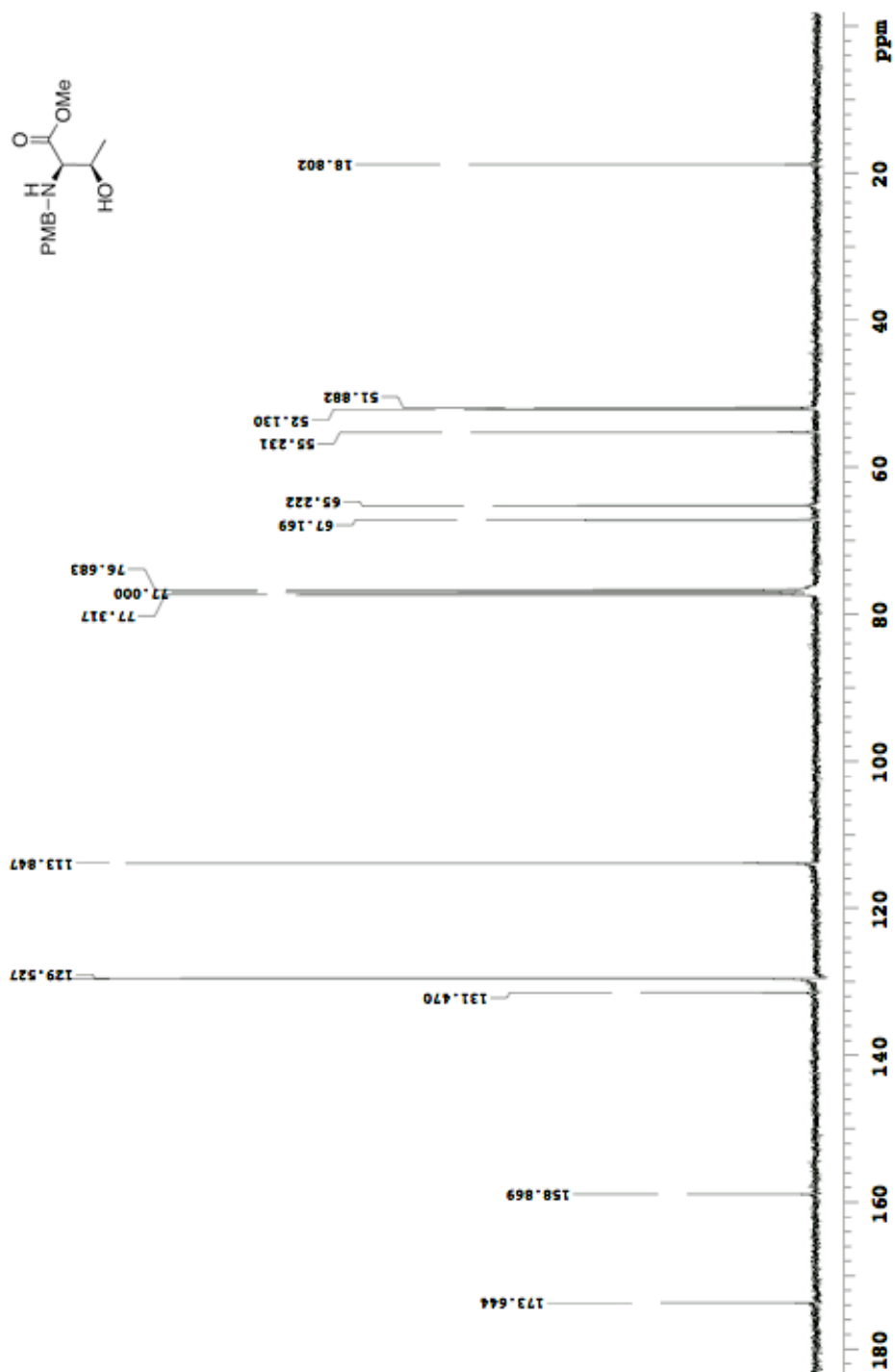
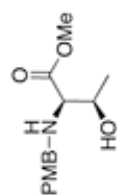
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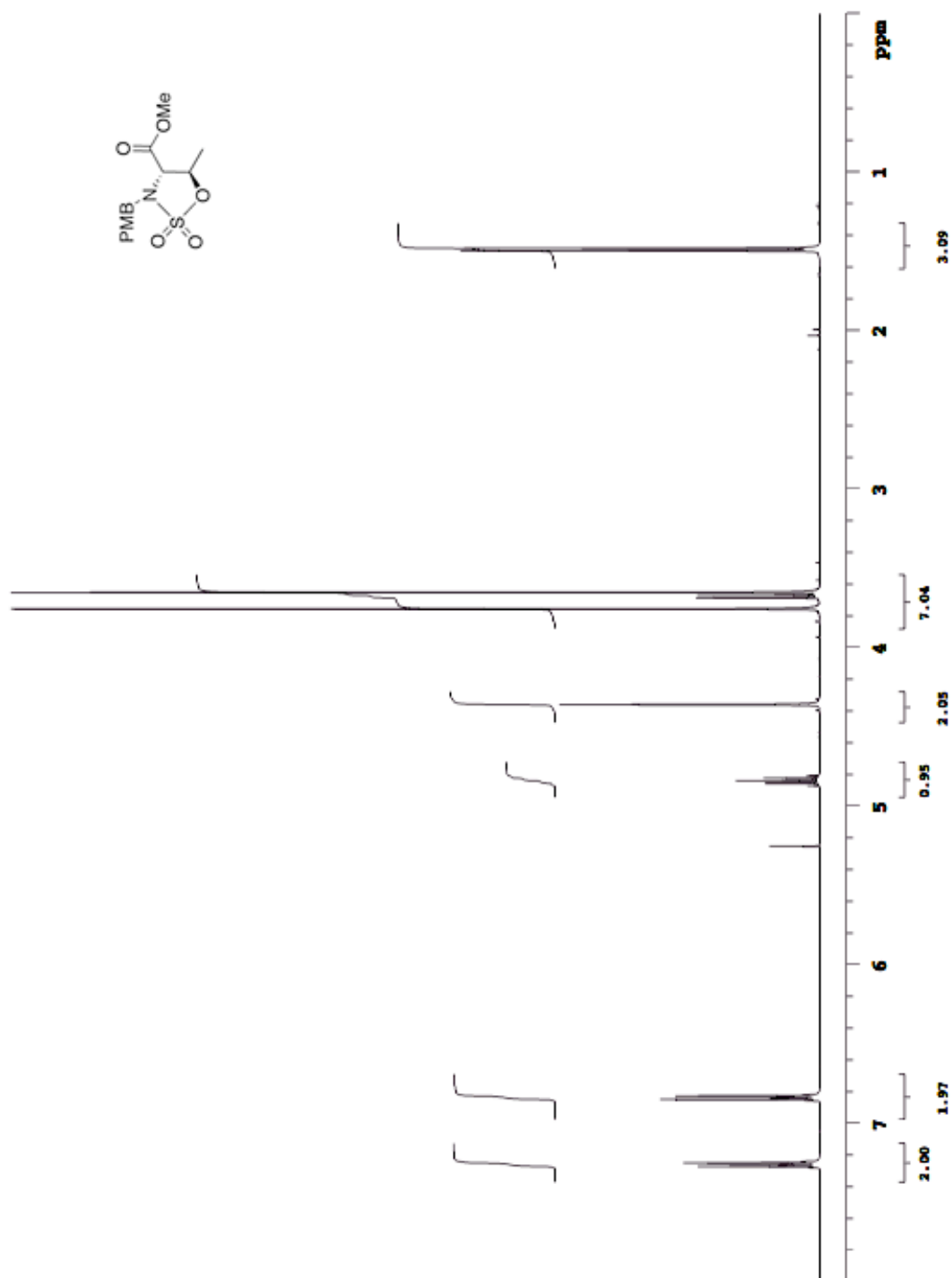
400 MHz 1D in CDCl₃ (ref. to CDCl₃ @ 7.26 ppm), temp 27.0 C → actual temp = 27.0 C, m400gs probe



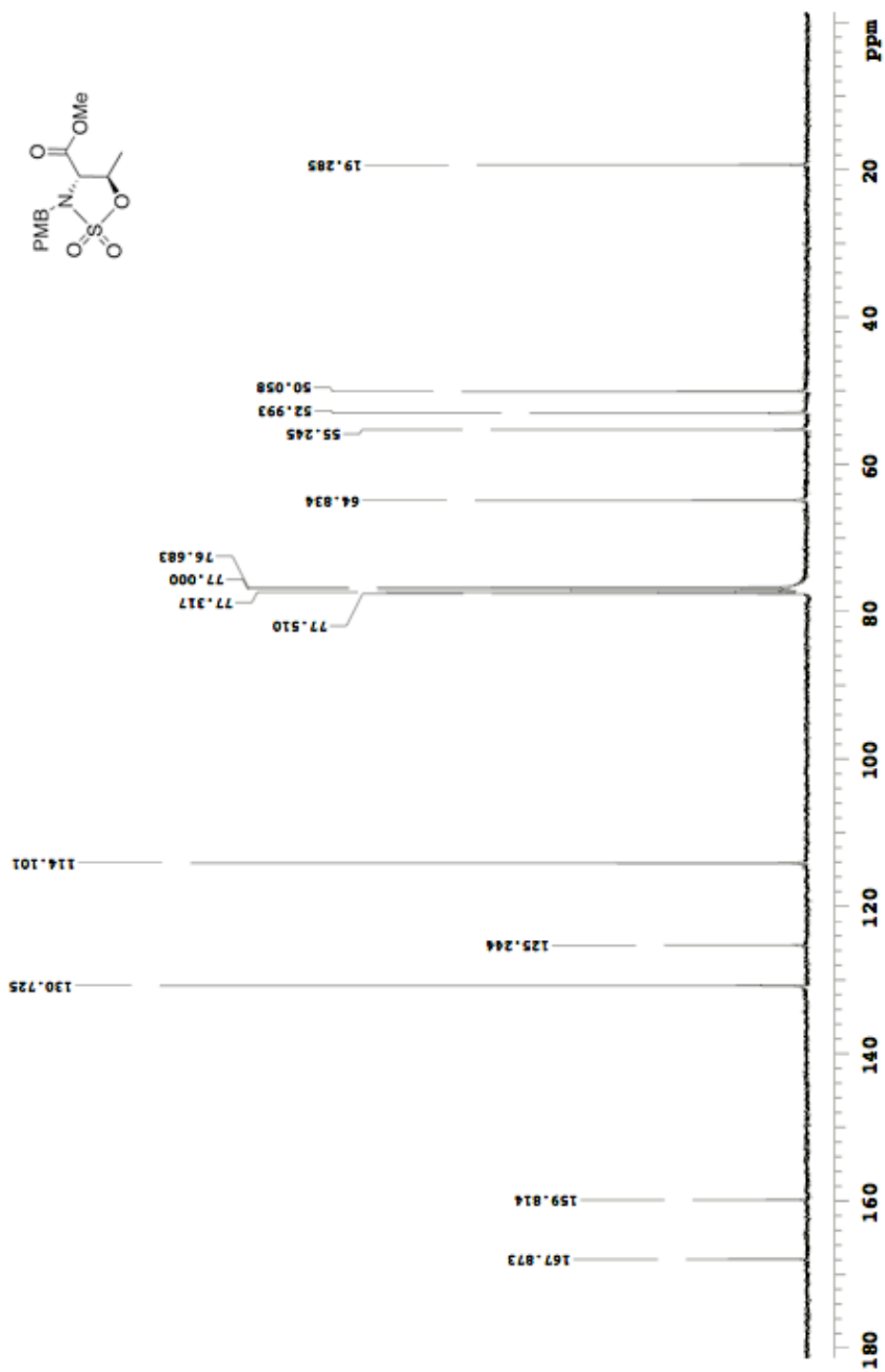
100 MHz 1D 13C in CDCl3 (ref. to CDCl3 @ 77.0 ppm), temp 27.0 C -> actual temp = 27.0 C, m400gs probe



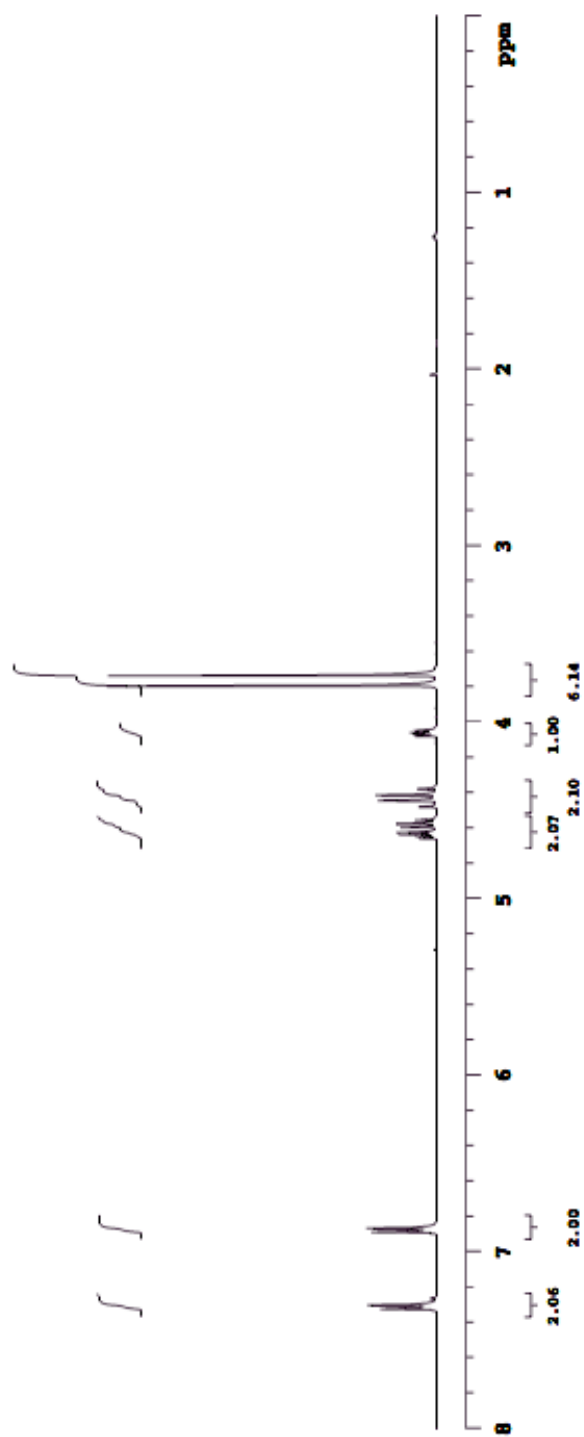
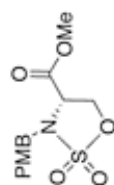
400 MHz 1D in CDCl₃ (ref. to CDCl₃ @ 7.26 ppm), temp 27.0 C -> actual temp = 27.0 C, m400gs probe



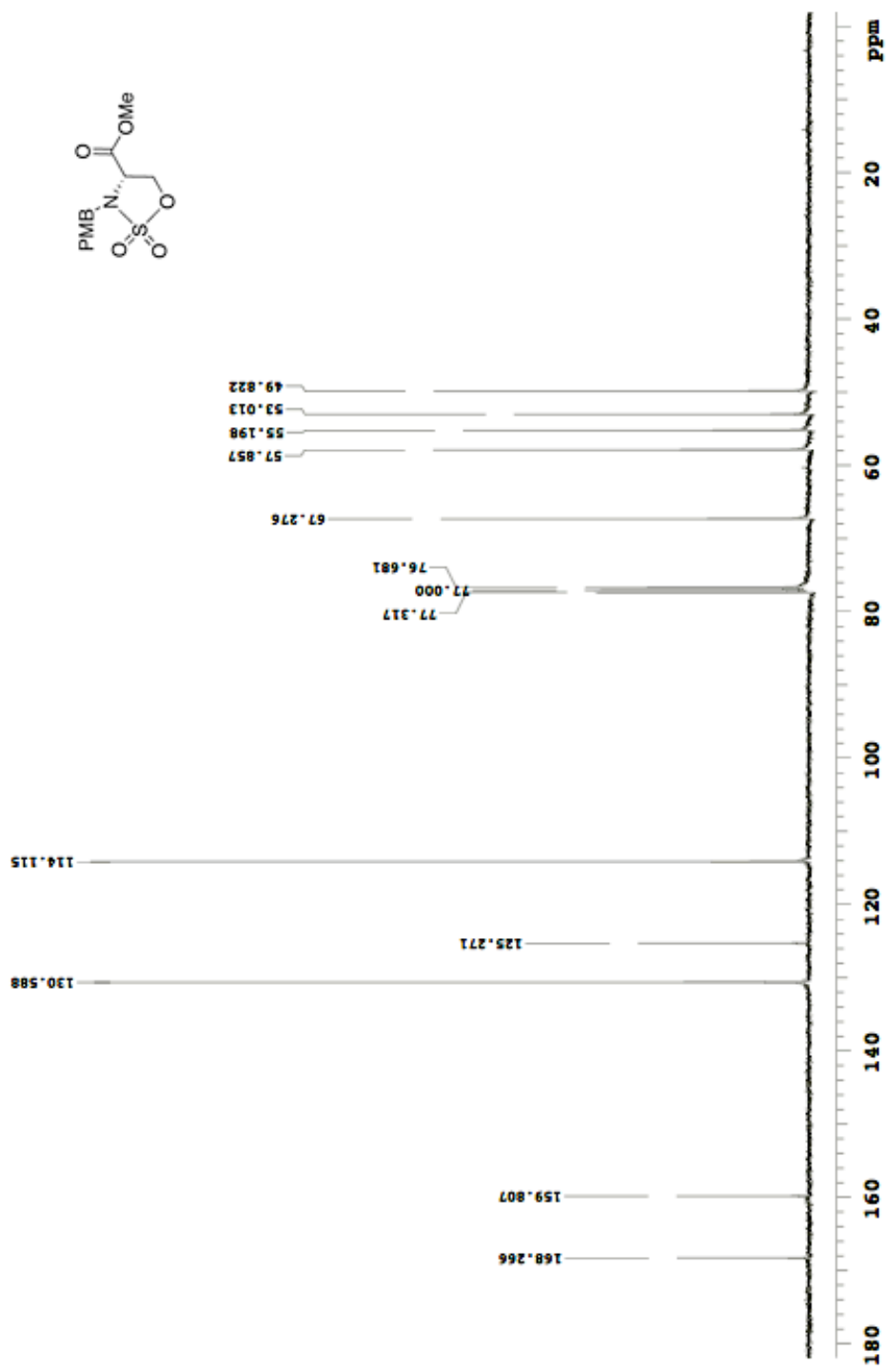
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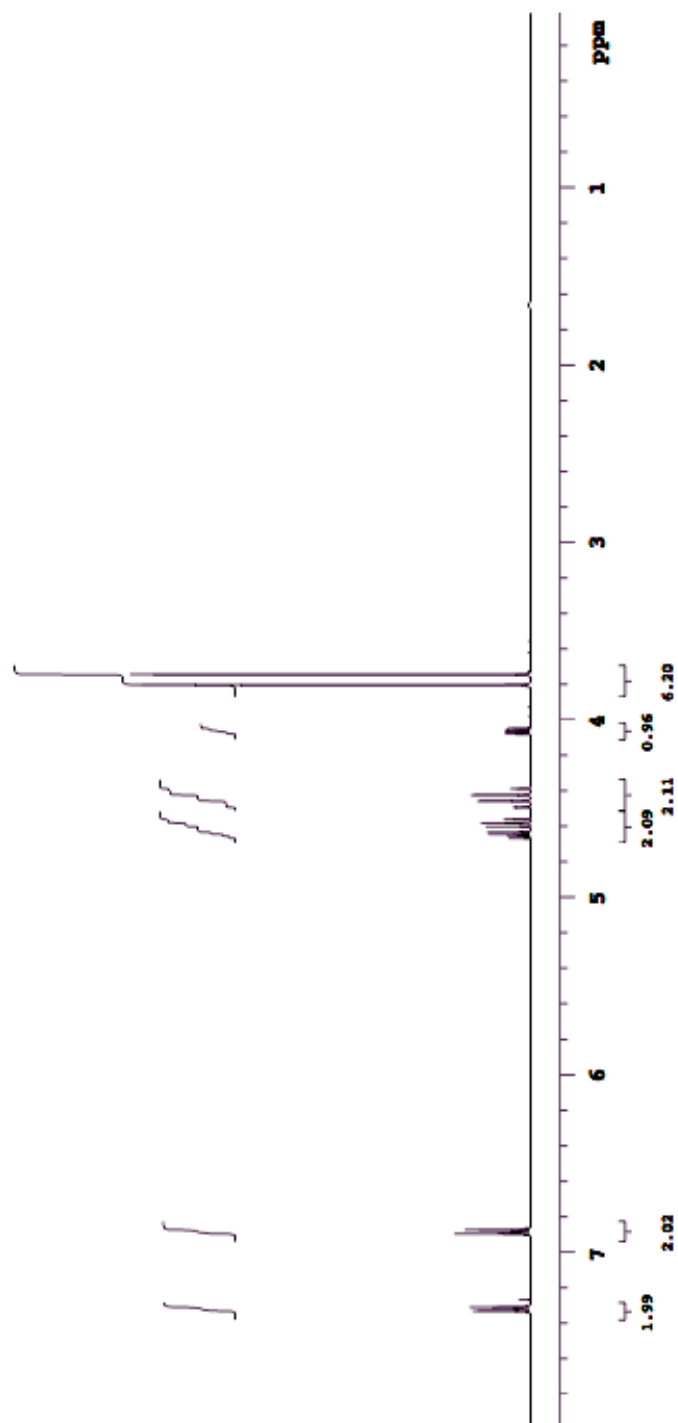
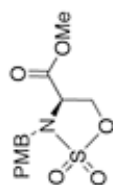
400 MHz 1D in CDCl₃ (ref. to CDCl₃ @ 7.26 ppm), temp 27.0 C -> actual temp = 27.0 C, m400gs probe



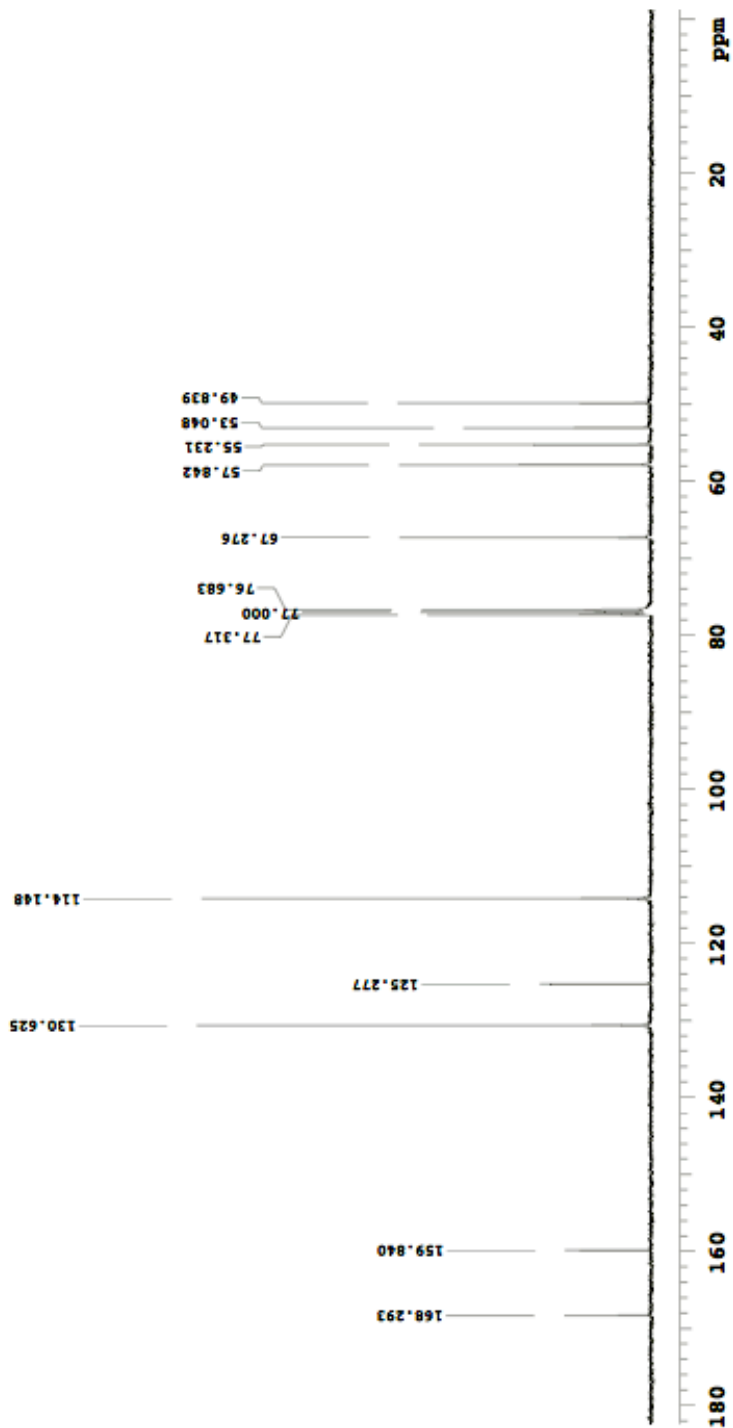
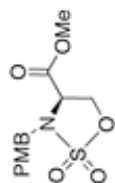
100 MHz 1D ¹³C in CDCl₃ (ref. to CDCl₃ @ 77.0 ppm), temp 27.0 °C -> actual temp = 27.0 °C, m400gs probe



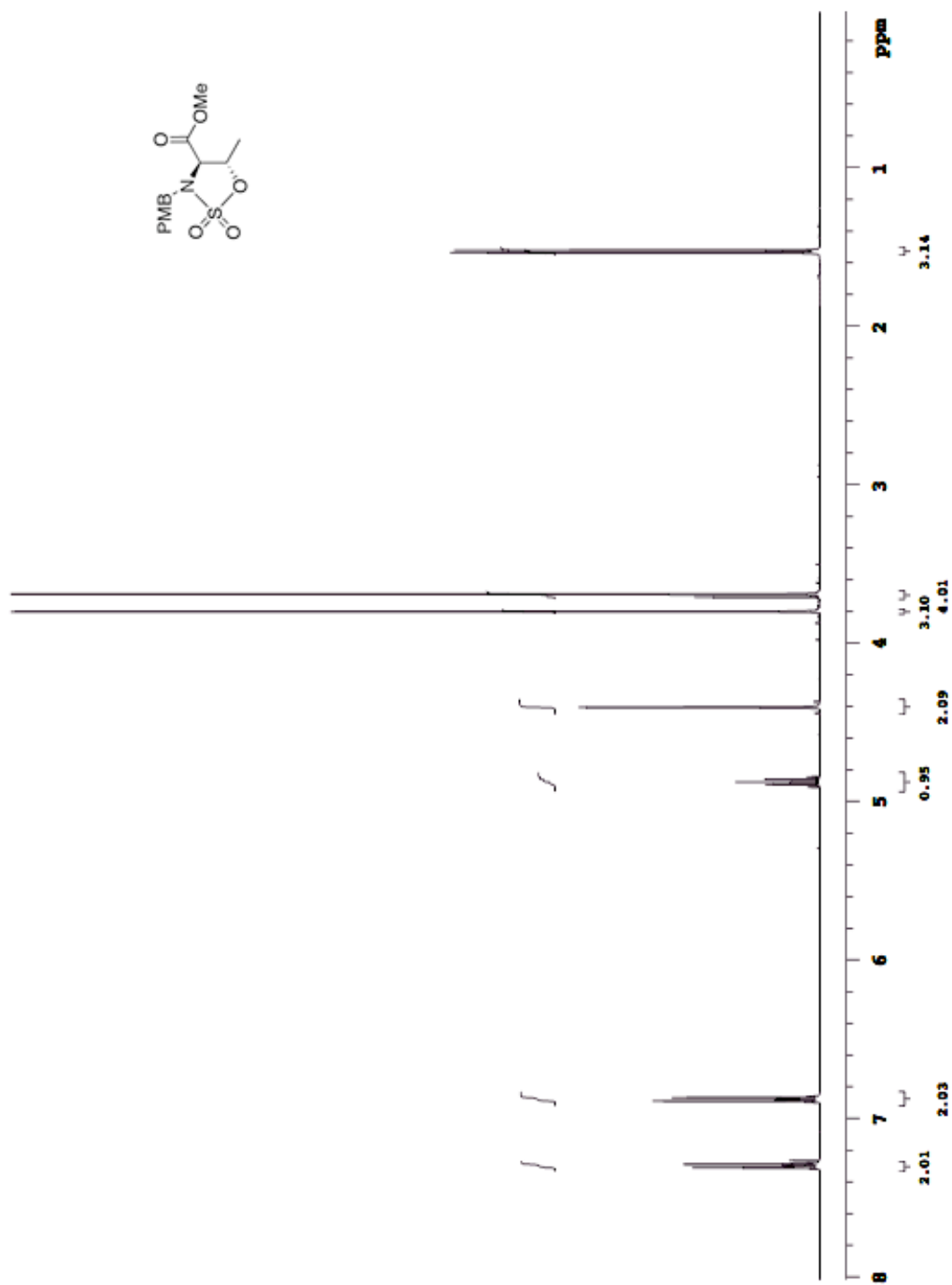
400 MHz 1D in CDCl₃ (ref. to CDCl₃ @ 7.26 ppm), temp 27.0 C → actual temp = 27.0 C, m400gs probe



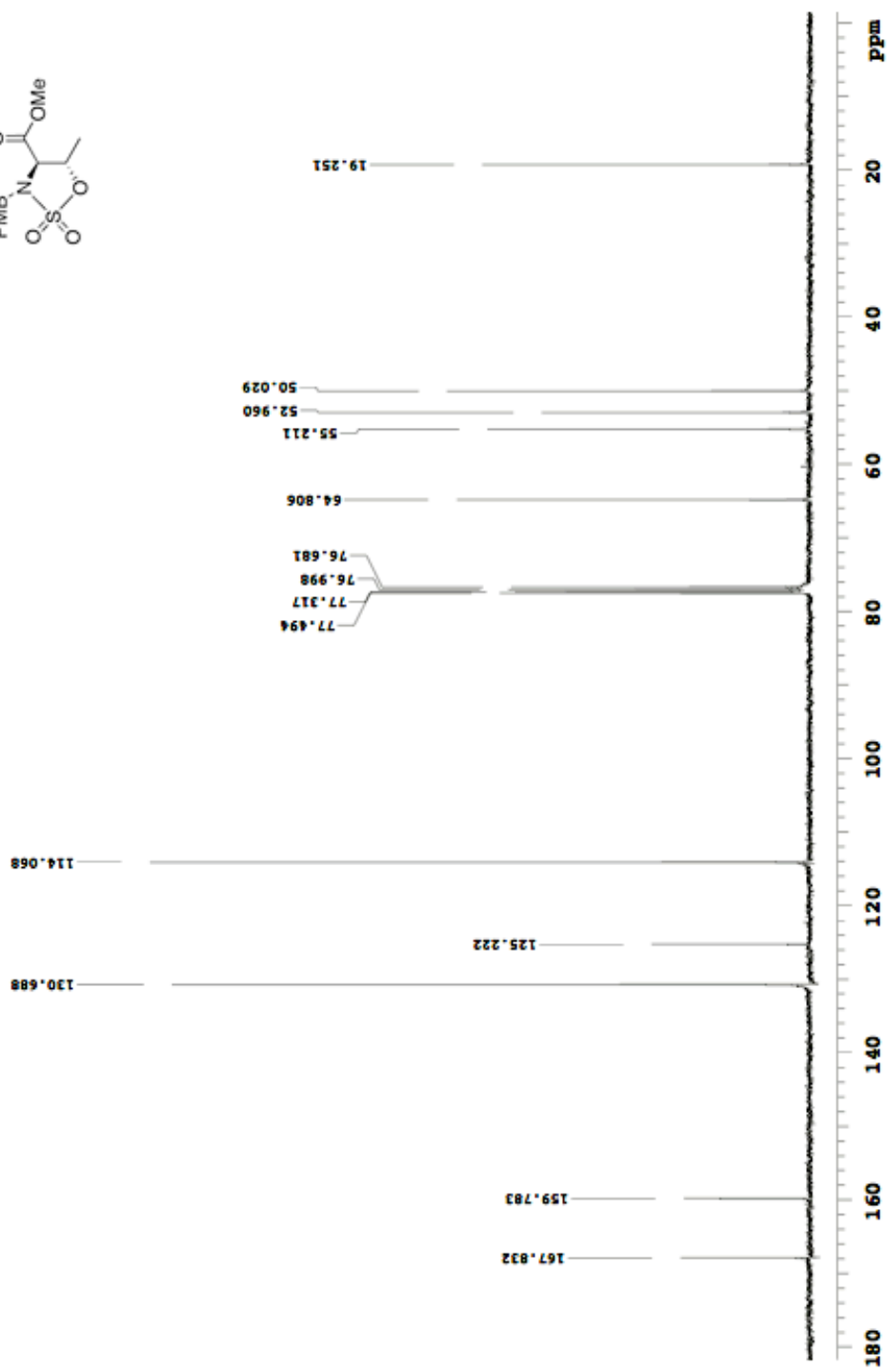
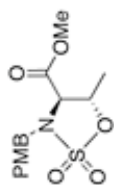
100 MHz 1D ¹³C in CDCl₃ (ref. to CDCl₃ @ 77.0 ppm), temp 27.0 °C -> actual temp = 27.0 °C, m400gs probe



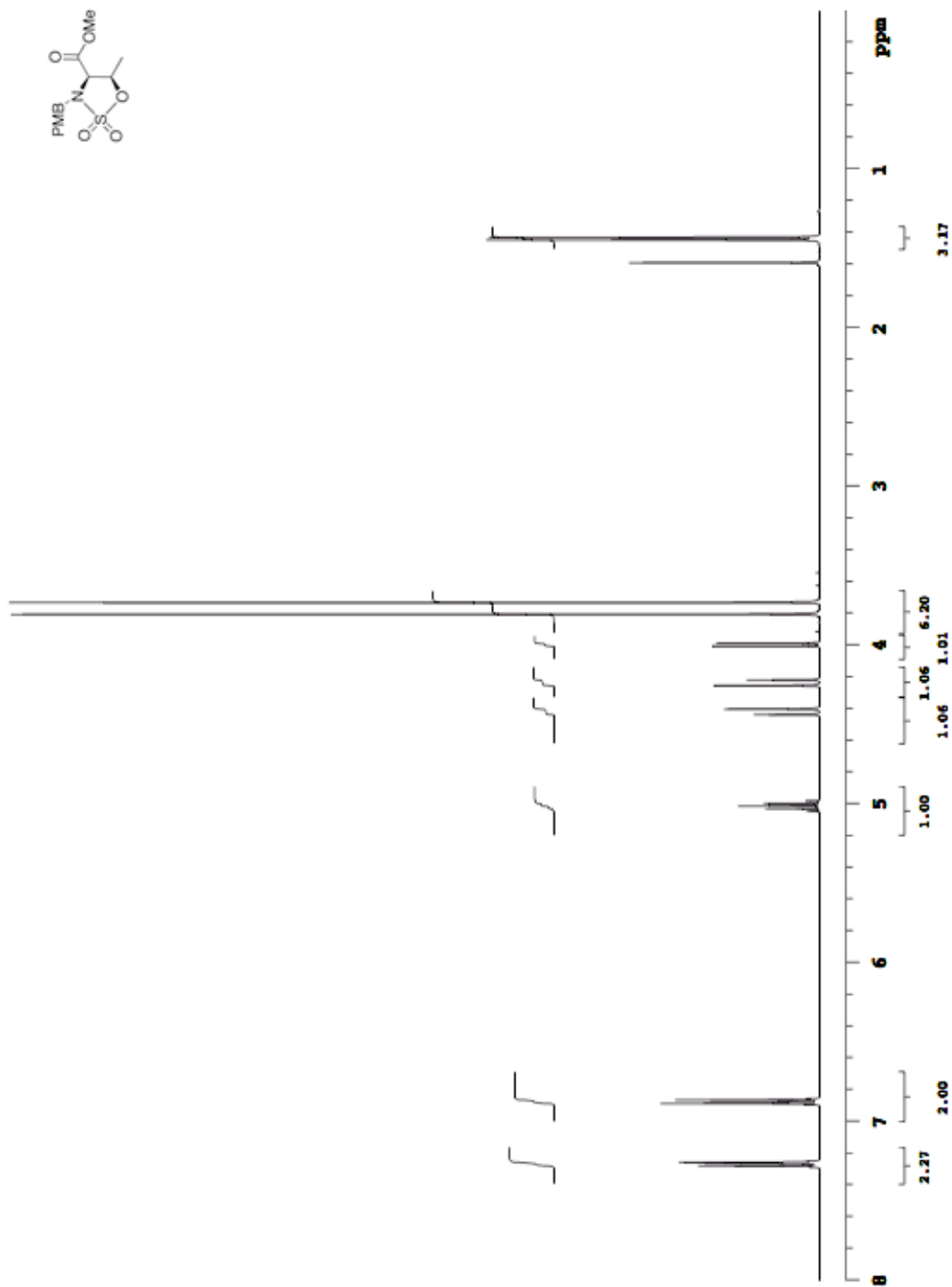
400 MHz 1D in CDCl₃ (ref. to CDCl₃ @ 7.26 ppm), temp 27.0 C -> actual temp = 27.0 C, m400gs probe



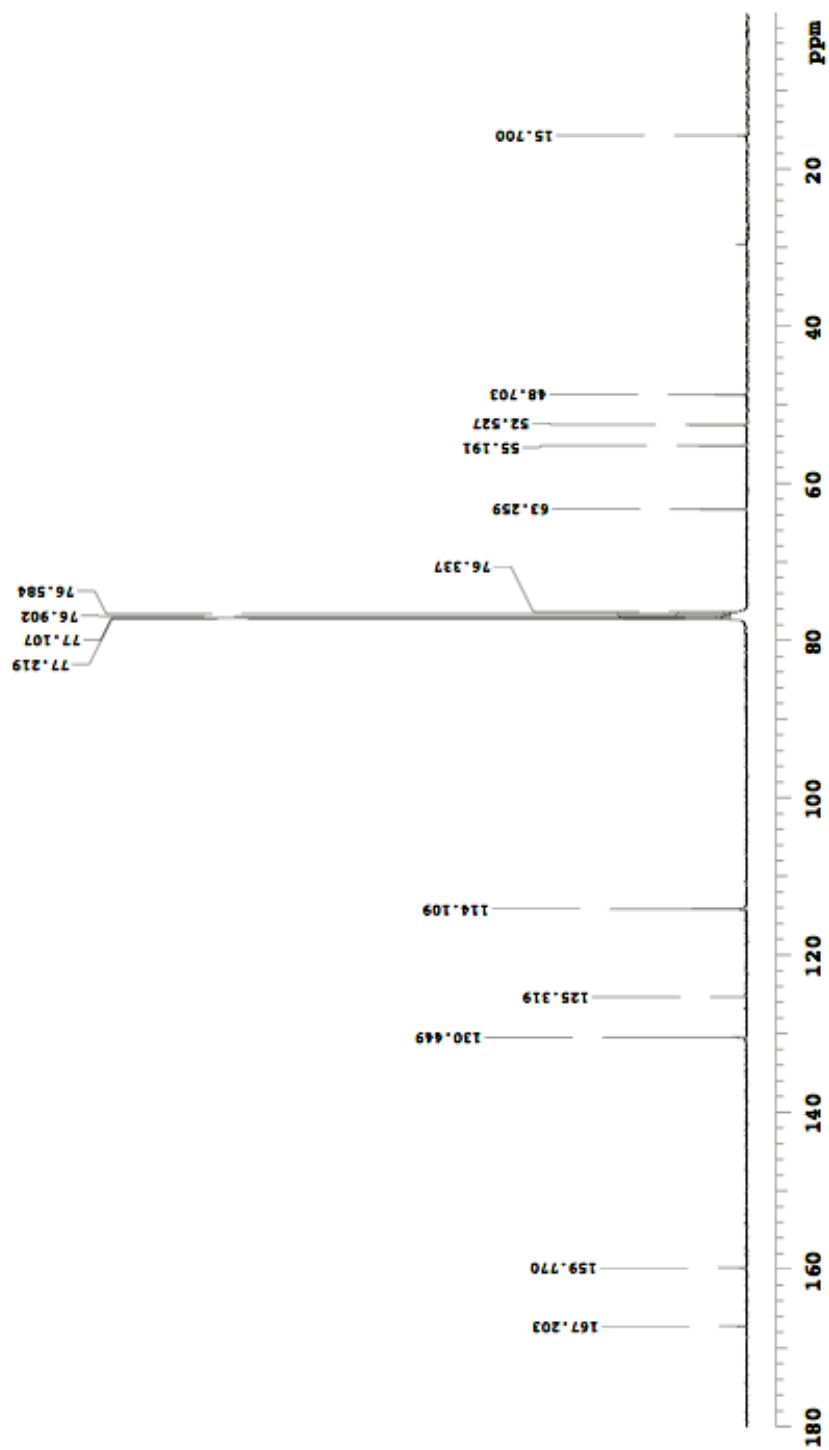
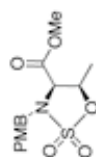
100 MHz 1D ¹³C in CDCl₃ (ref. to CDCl₃ @ 77.0 ppm), temp 27.0 °C -> actual temp = 27.0 °C, m400gs probe



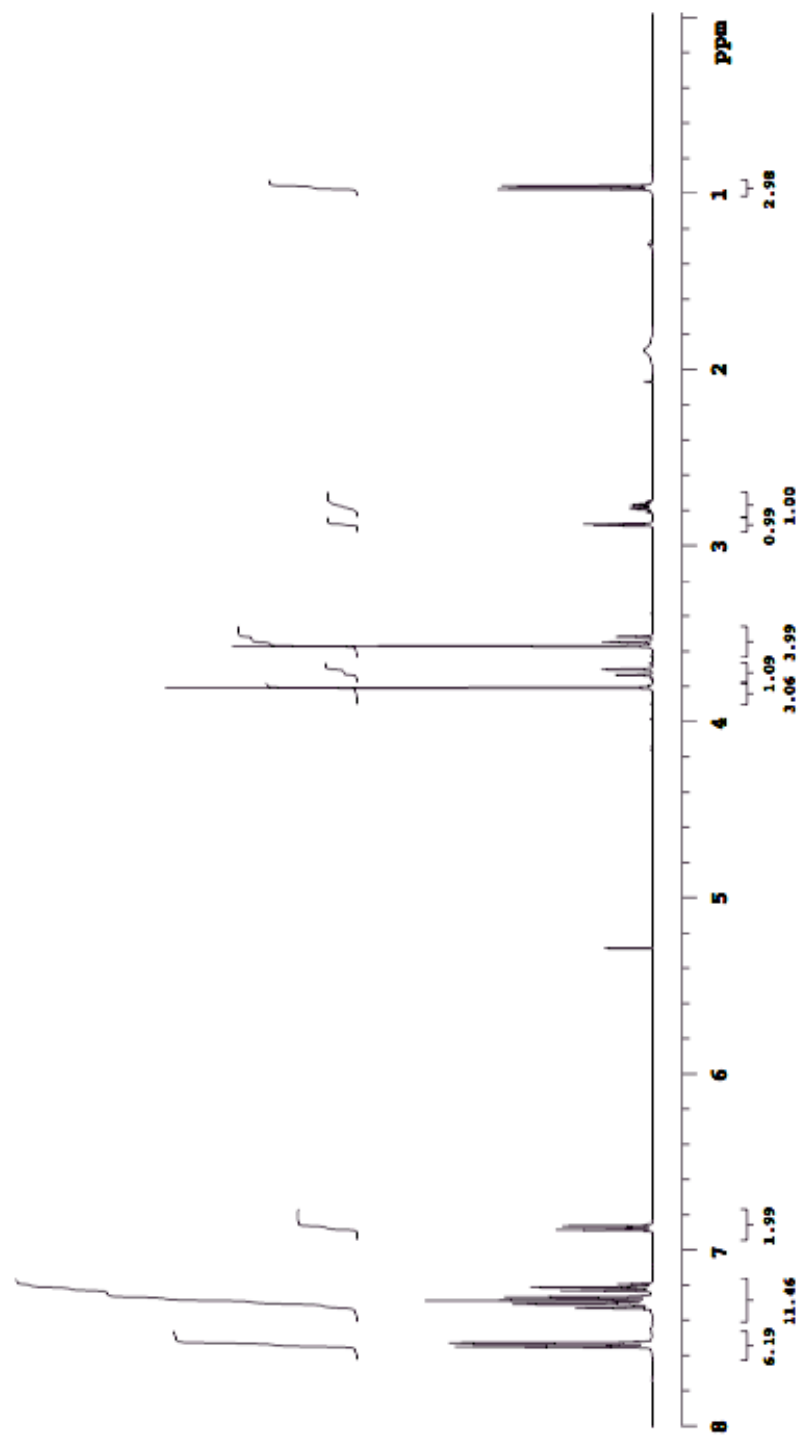
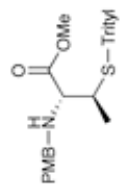
400 MHz 1D in CDCl₃ (ref. to CDCl₃ @ 7.26 ppm), temp 27.0 C -> actual temp = 27.0 C, m400gs probe



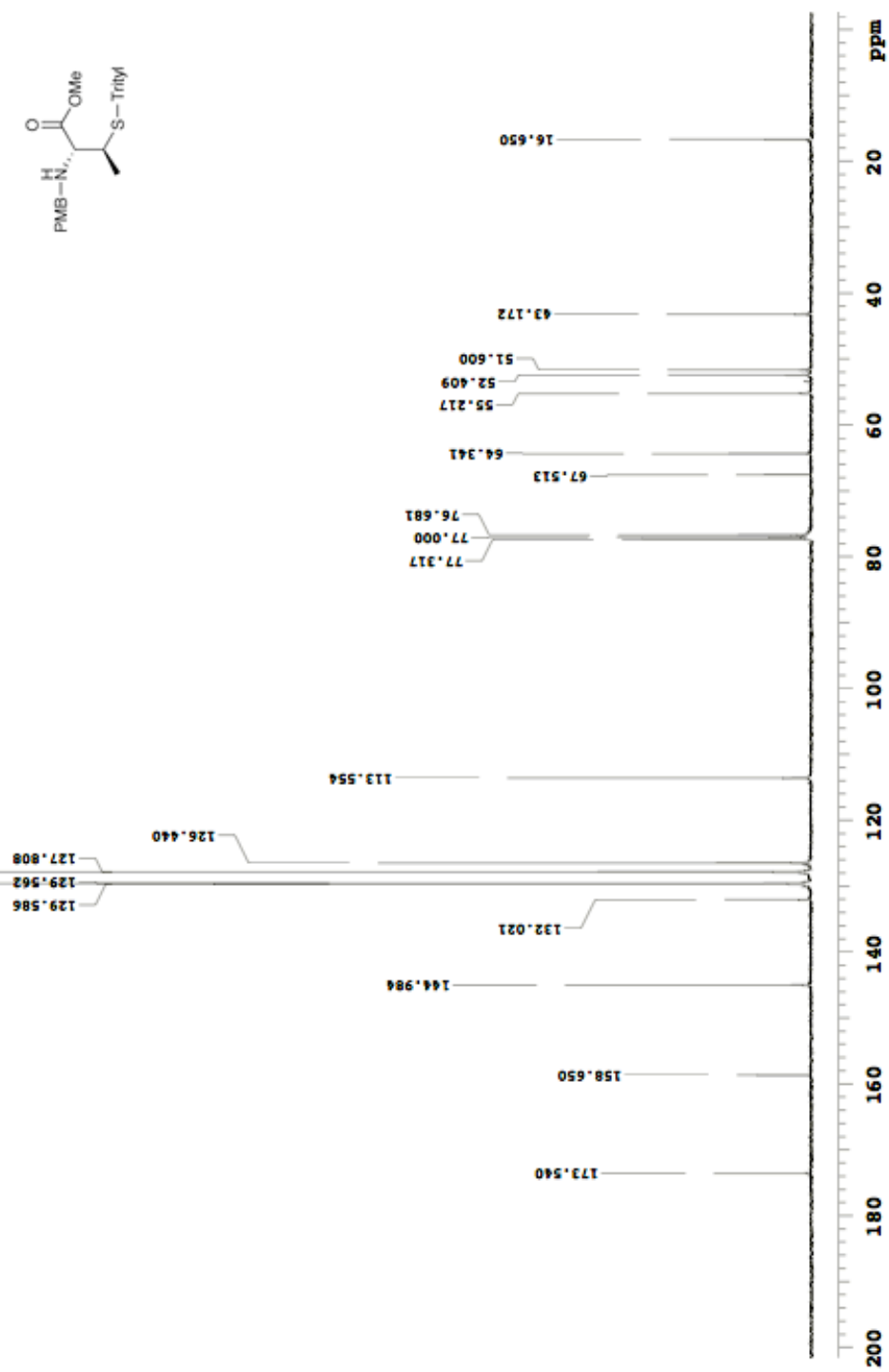
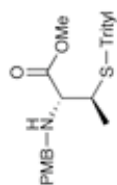
100 MHz 1D ¹³C in CDCl₃ (ref. to CDCl₃ @ 77.0 ppm), temp 27.0 °C -> actual temp = 27.0 °C, m400gs probe



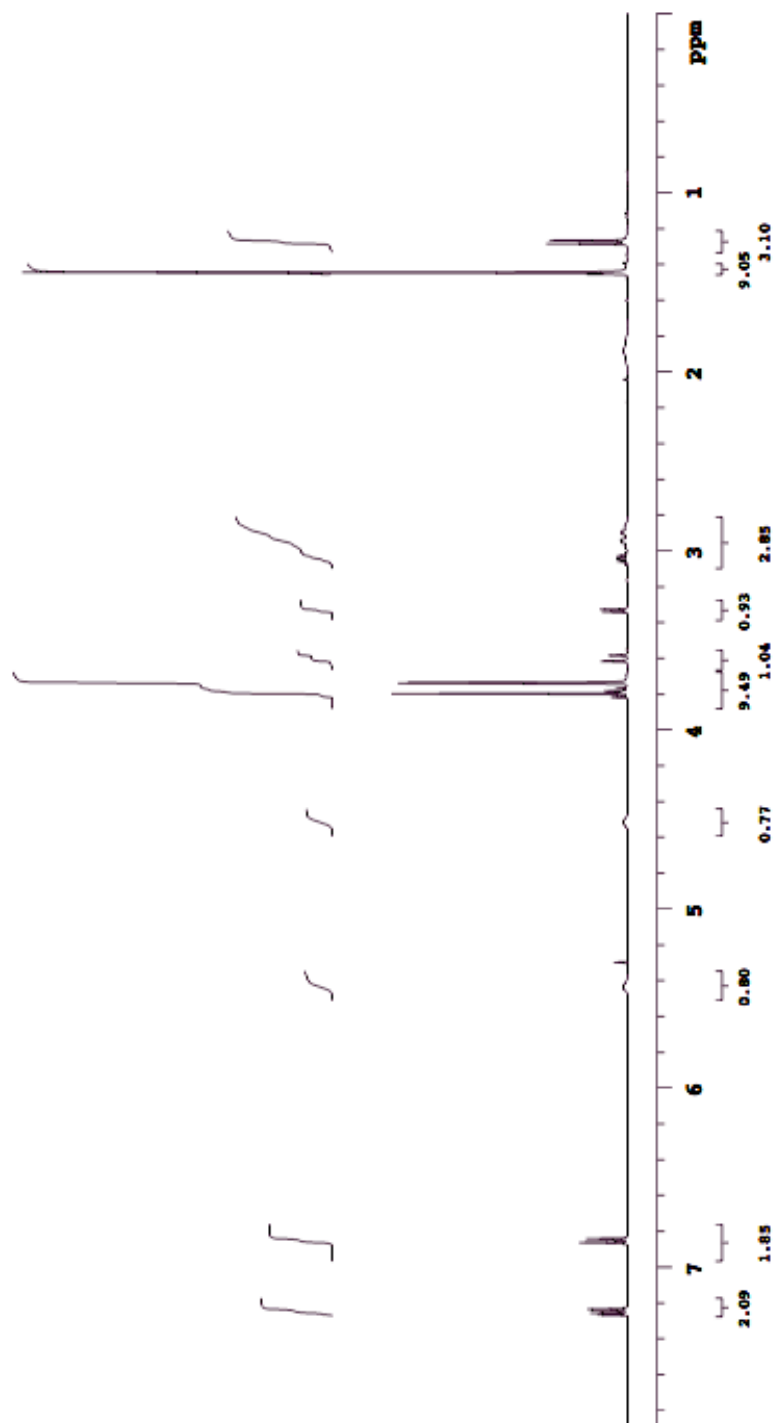
400 MHz 1D in CDCl₃ (ref. to CDCl₃ @ 7.26 ppm), temp 27.0 C → actual temp = 27.0 C, m400gs probe

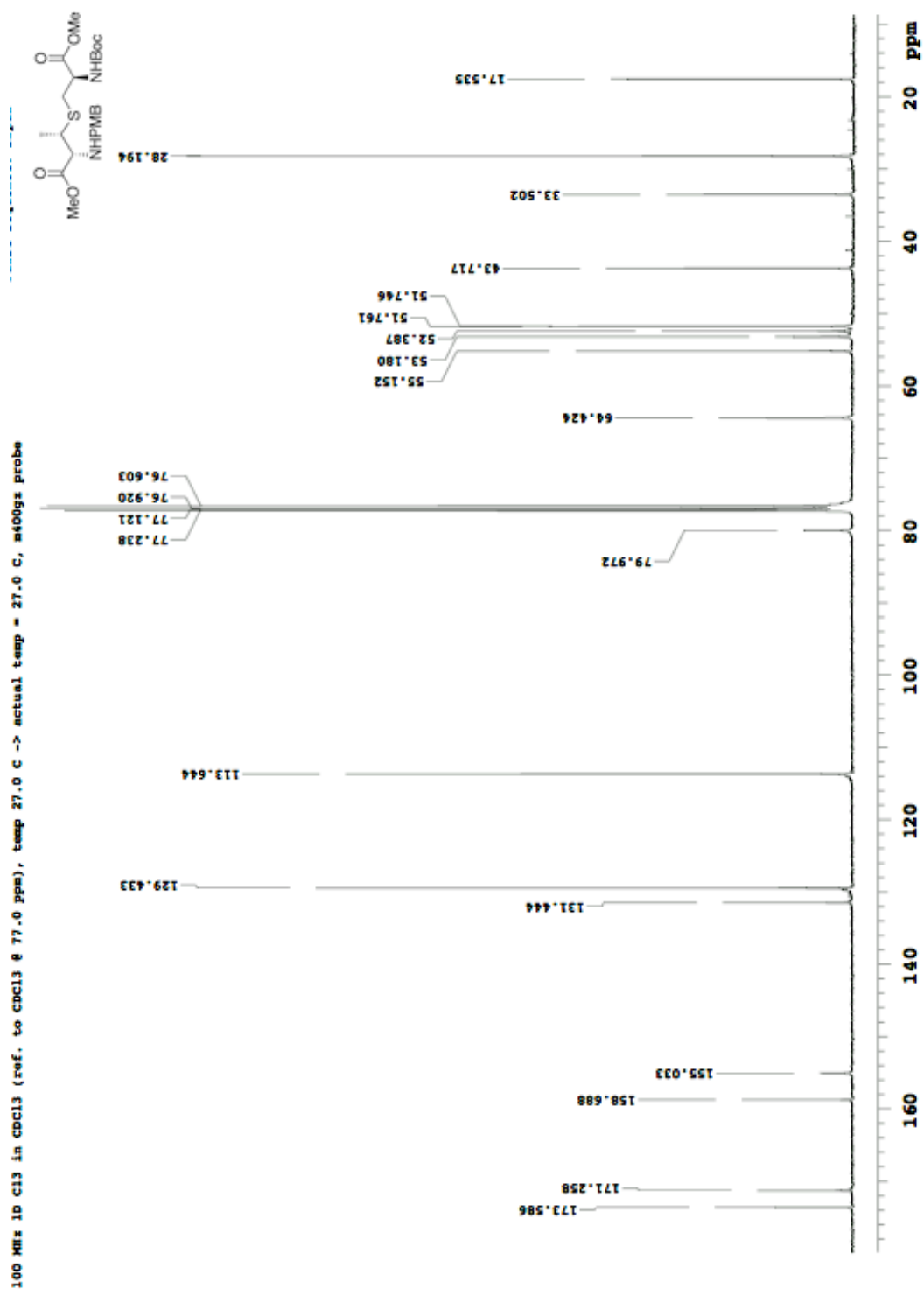


100 MHz 1D ¹³C in CDCl₃ (ref. to CDCl₃ @ 77.0 ppm), temp 27.0 °C -> actual temp = 27.0 °C, m400gs probe

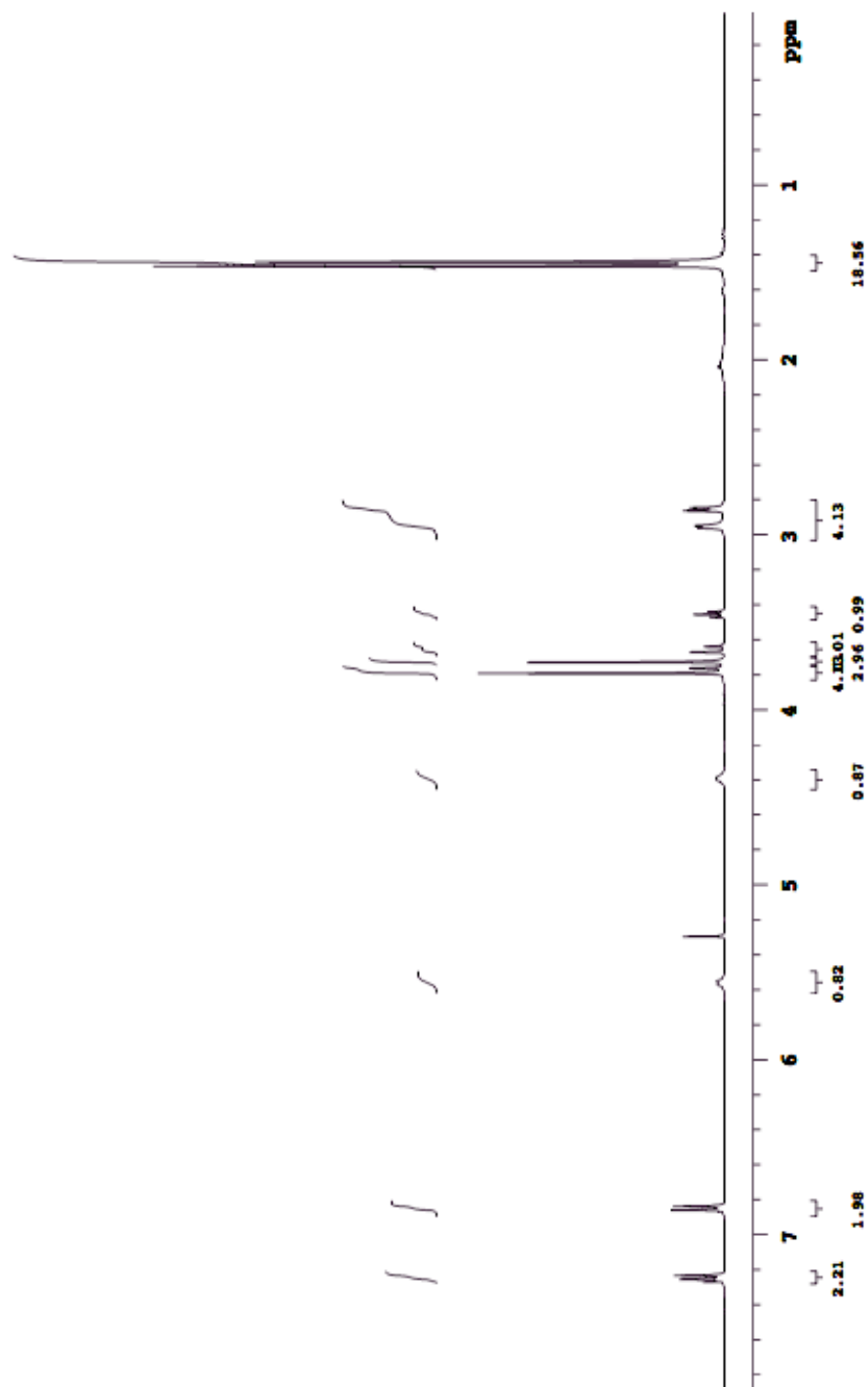


400 MHz 1D in CDCl₃ (ref. to CDCl₃ @ 7.26 ppm), temp 27.0 C → actual temp = 27.0 C, m400gs probe

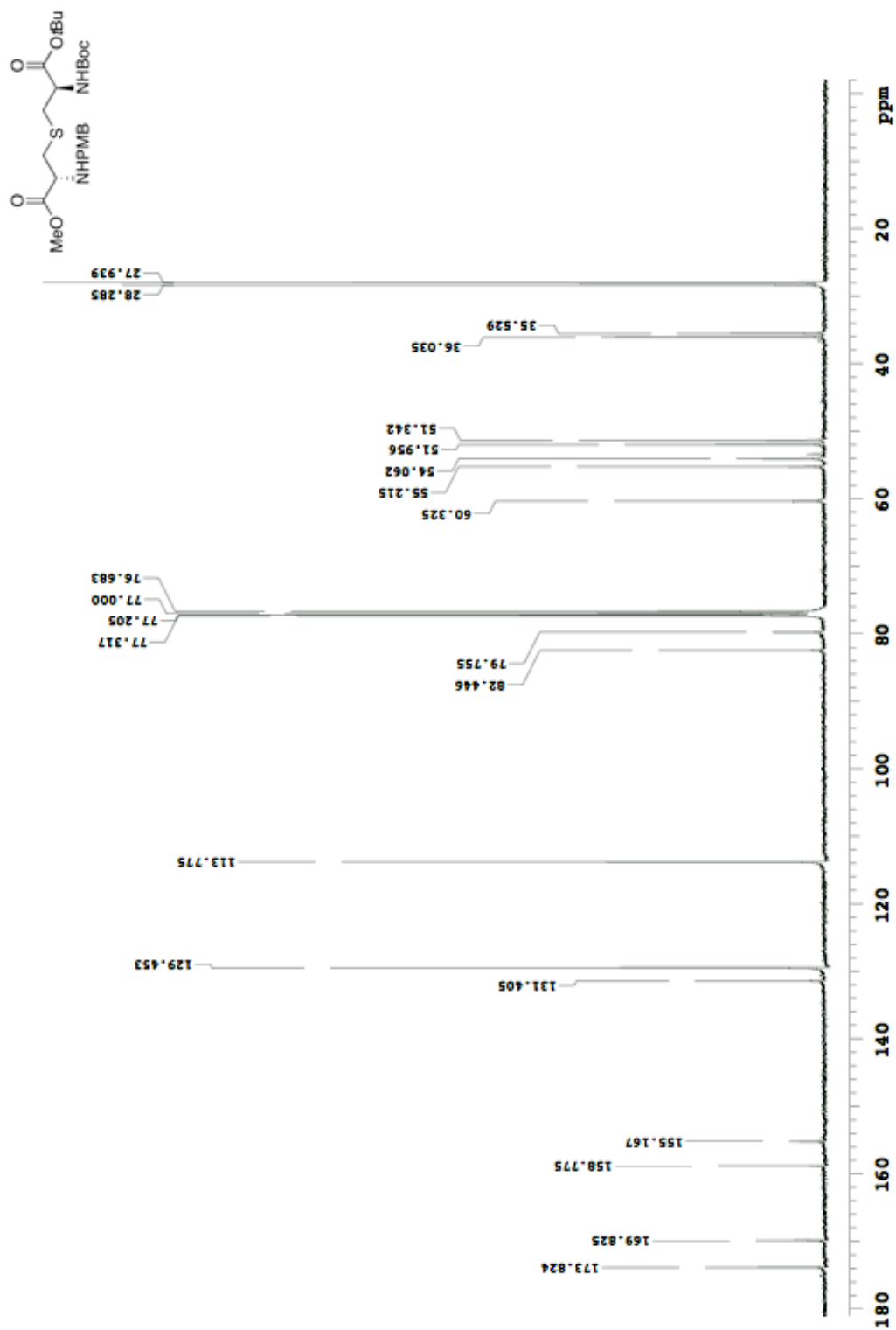




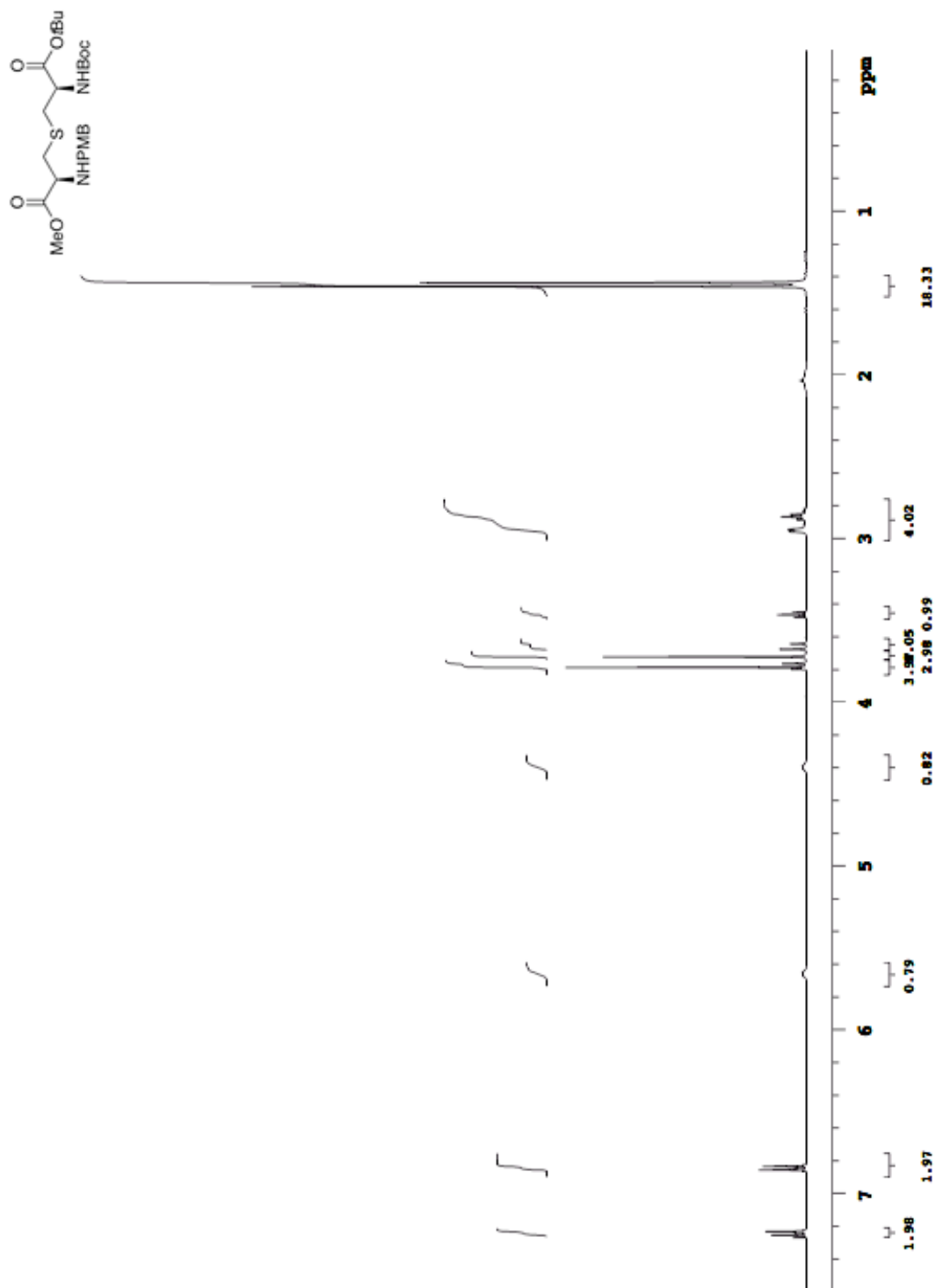
400 MHz 1D in CDCl₃ (ref. to CDCl₃ @ 7.26 ppm), temp 27.0 C → actual temp = 27.0 C, m400gs probe



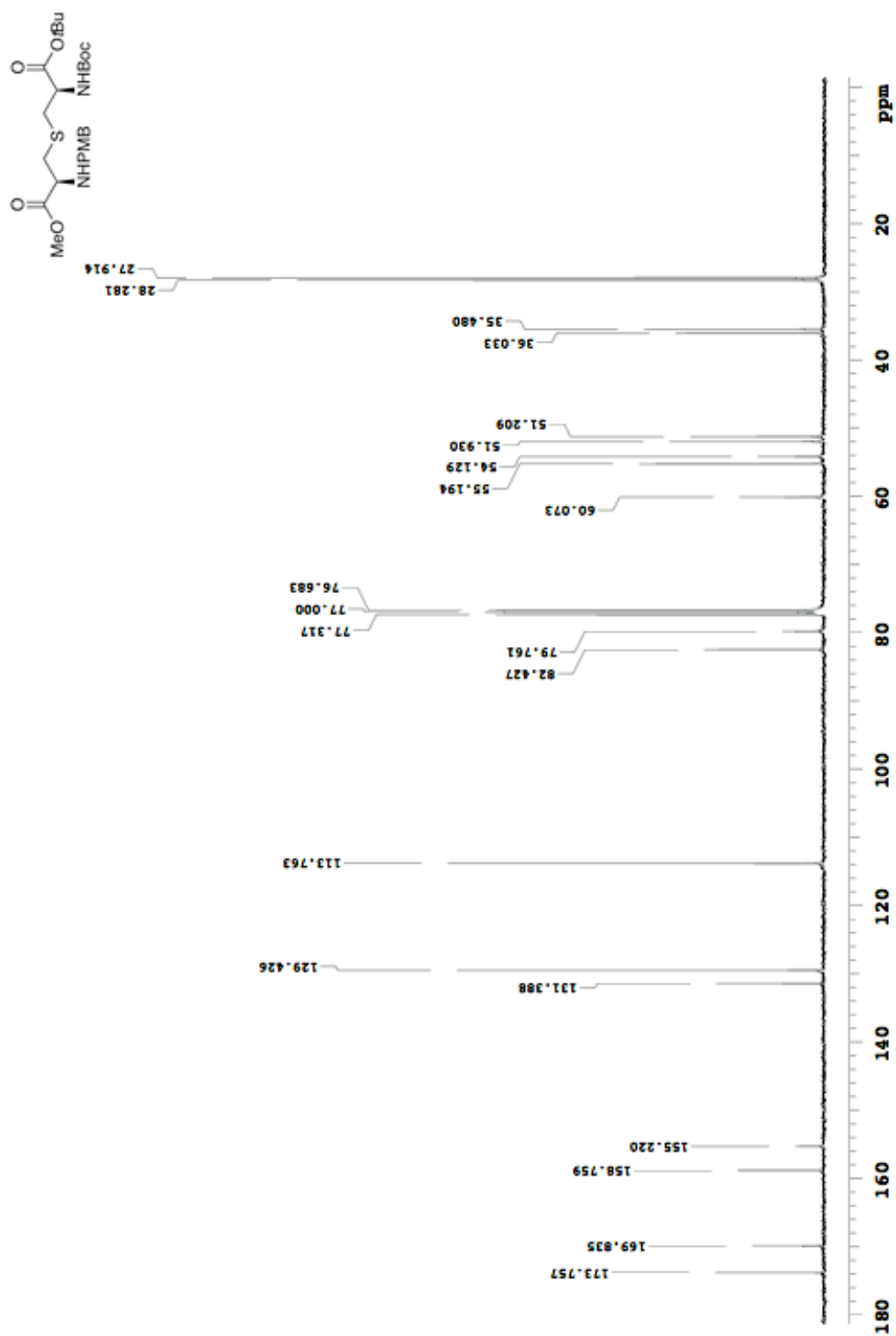
100 MHz 1D C13 in CDCl3 (ref. to CDCl3 @ 77.0 ppm), temp 27.0 C -> actual temp = 27.0 C, m400gs probe

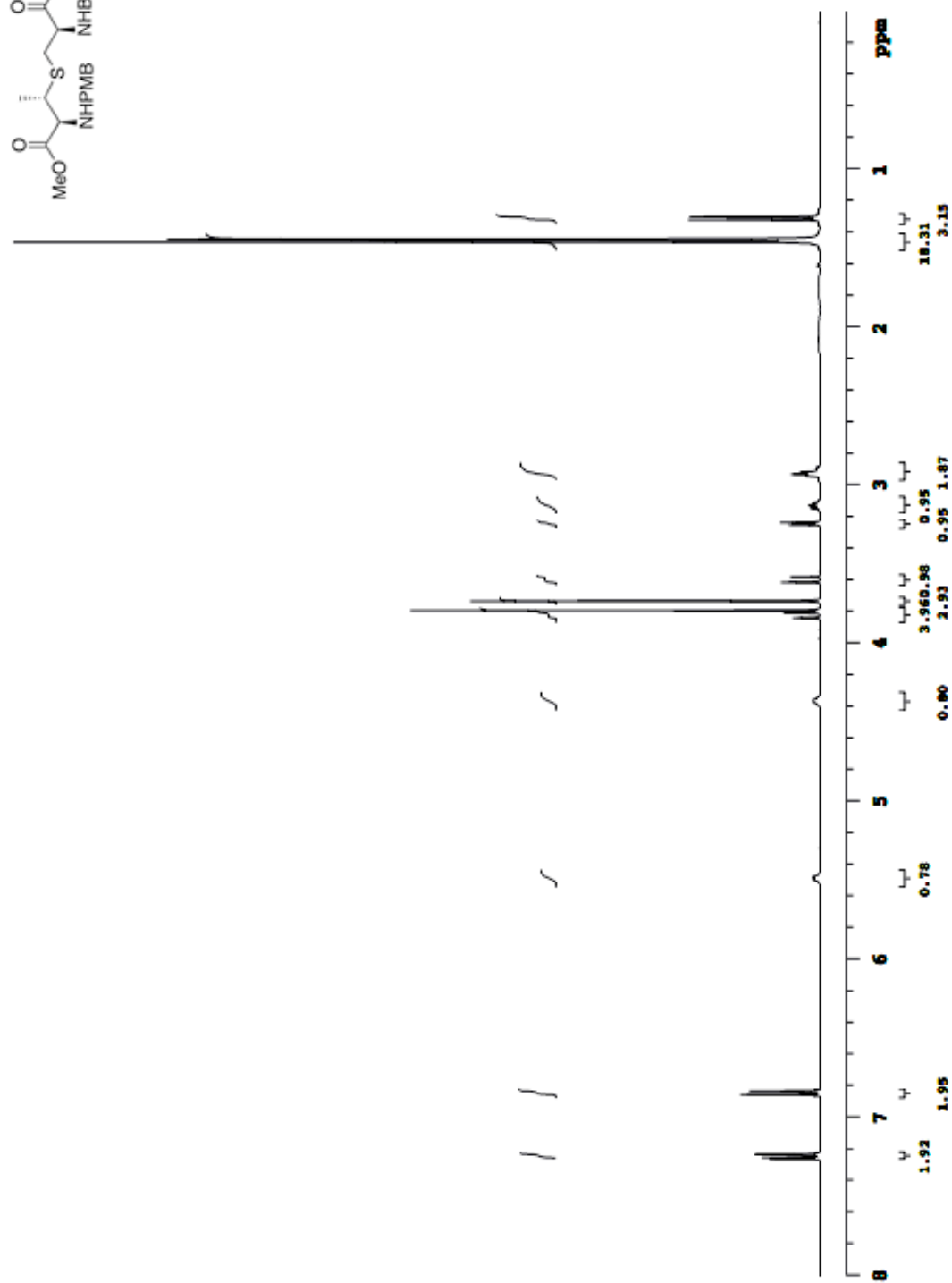


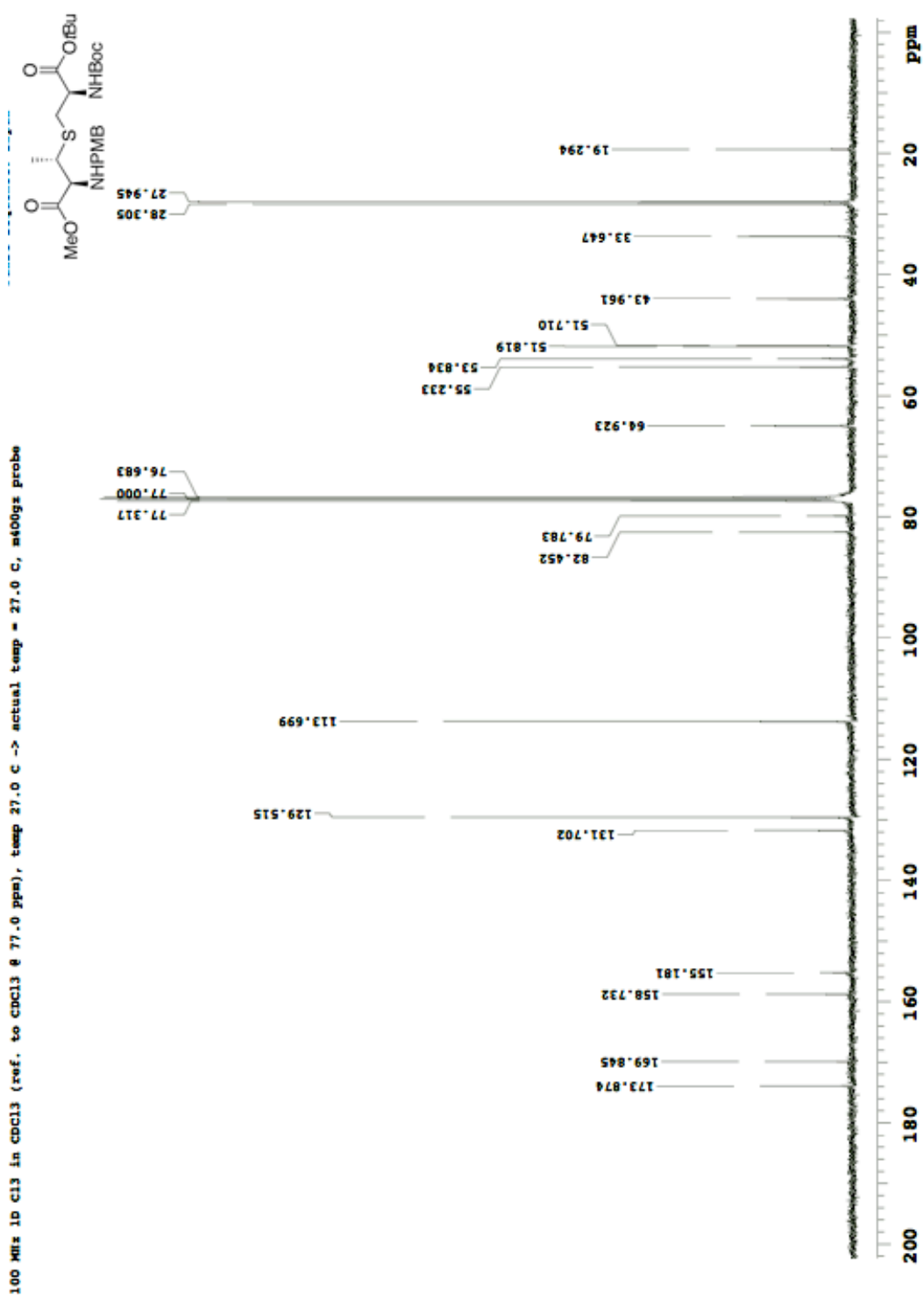
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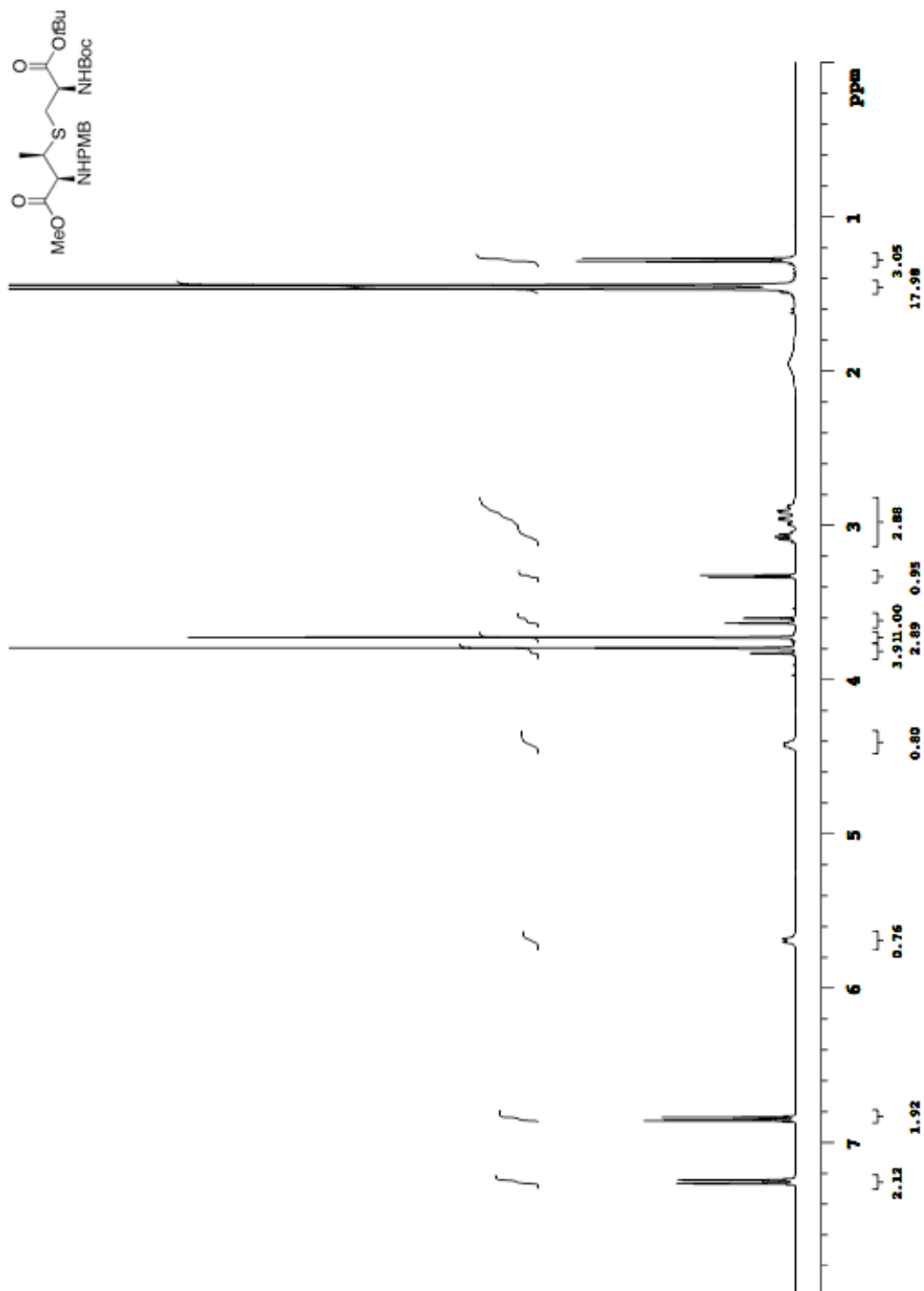


100 MHz 1D C13 in CDCl3 (ref. to CDCl3 @ 77.0 ppm), temp 27.0 C -> actual temp = 27.0 C, 4000x probe

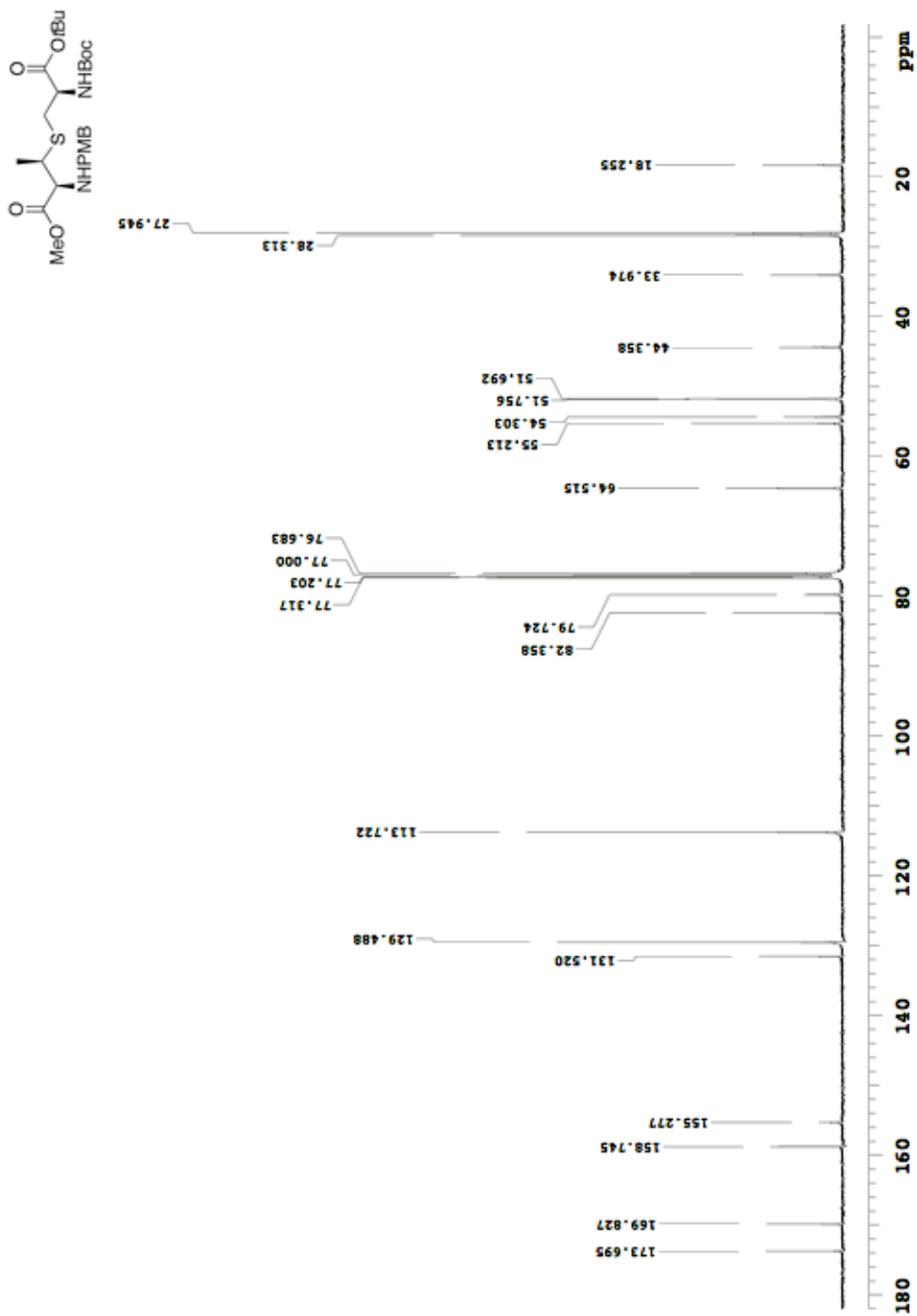




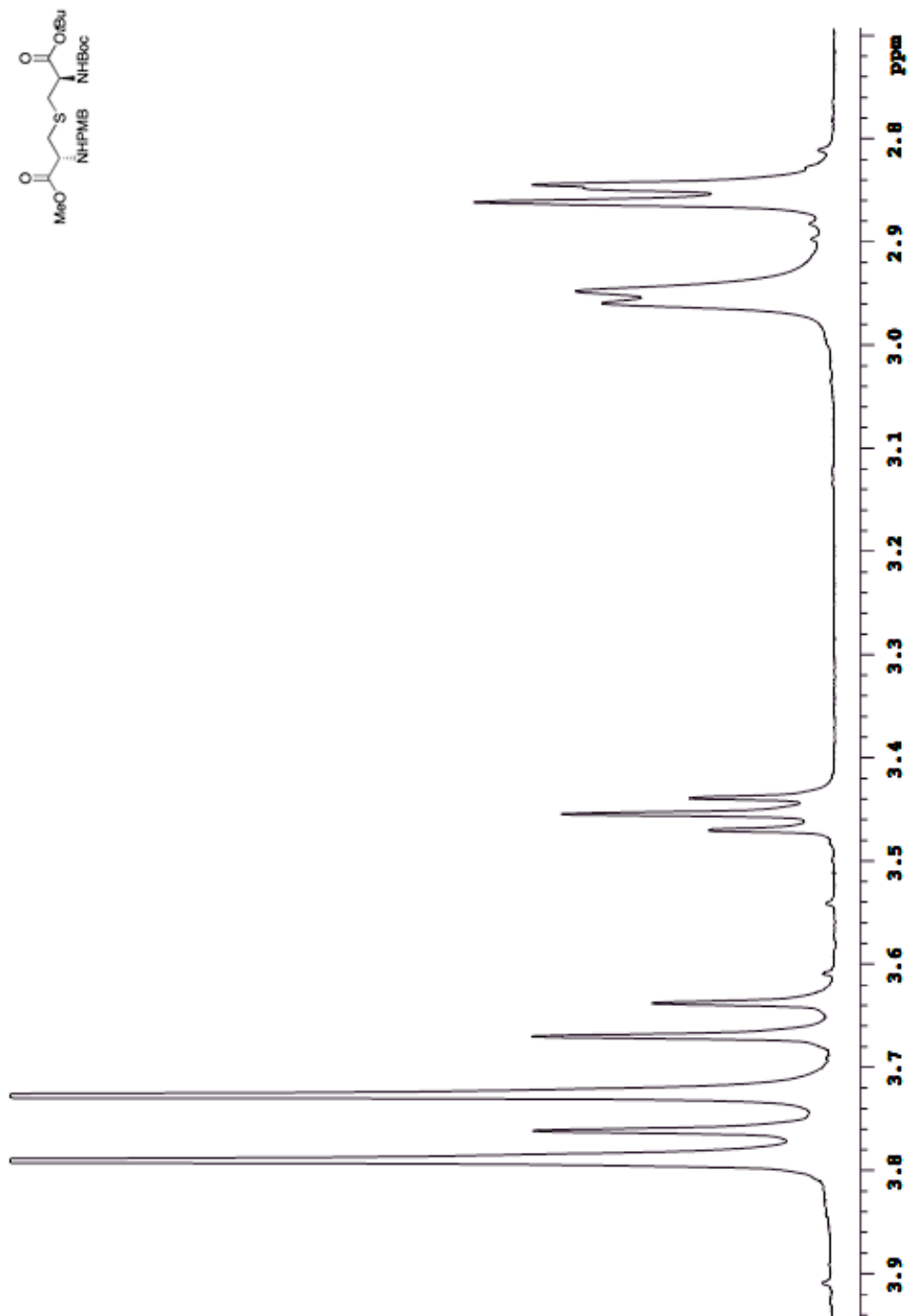




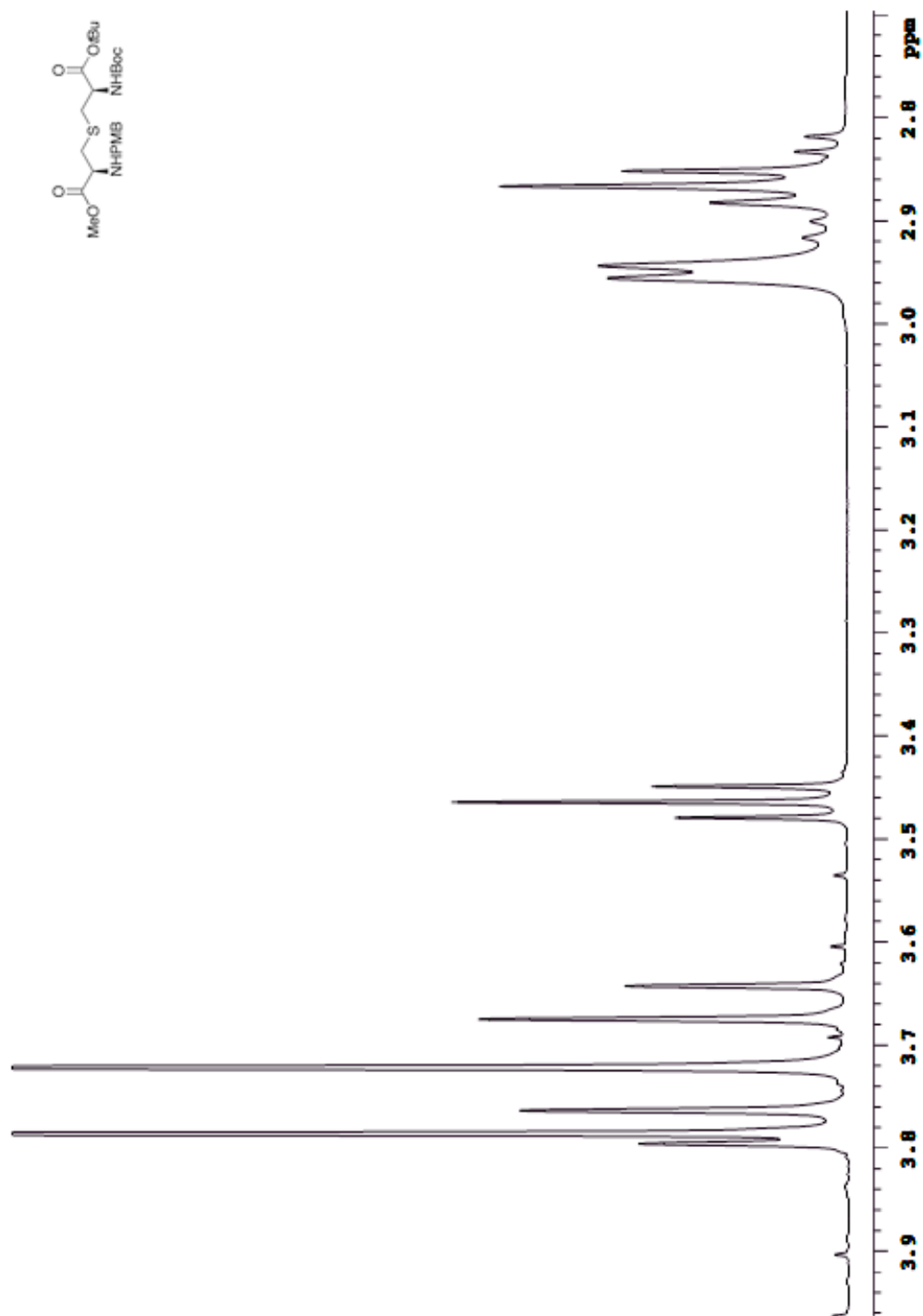
100 MHz 1D ¹³C in CDCl₃ (ref. to CDCl₃ @ 77.0 ppm), temp 27.0 °C -> actual temp = 27.0 °C, m400gs probe



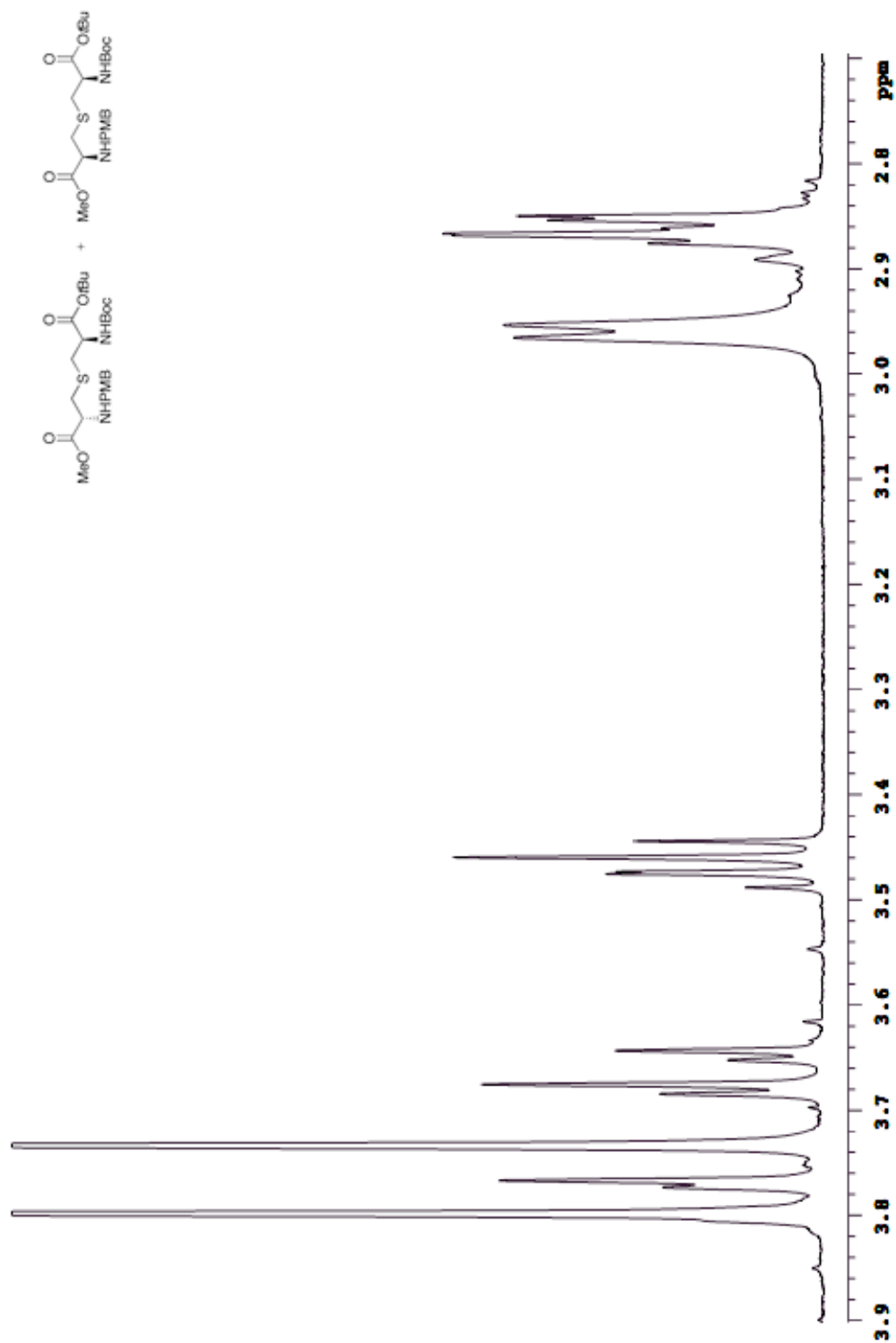
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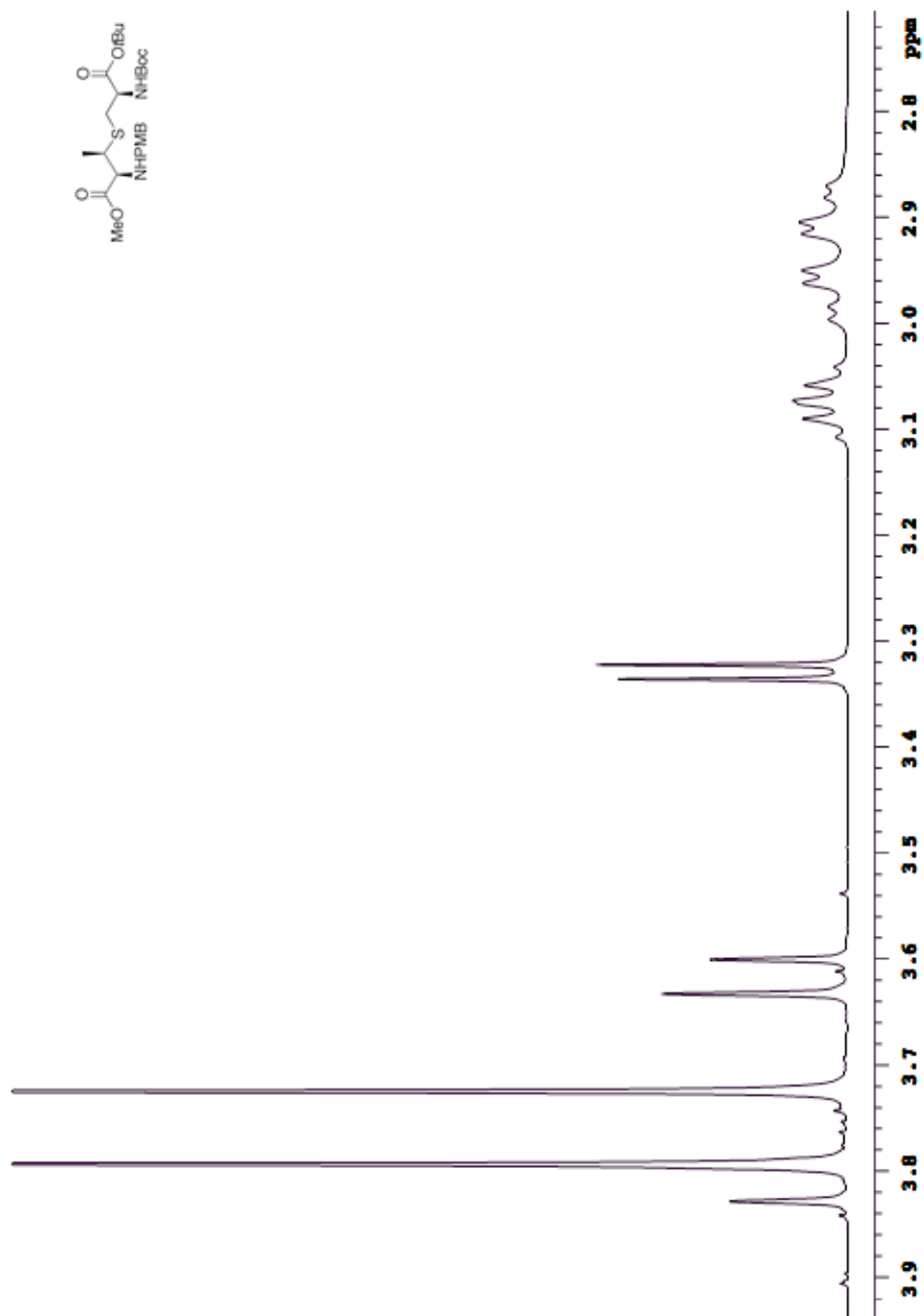
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400 MHz 1D in CDCl₃ (ref. to CDCl₃ @ 7.26 ppm), temp 27.0 C -> actual temp = 27.0 C, m400gs probe



400 MHz 1D in CDCl₃ (ref. to CDCl₃ @ 7.26 ppm), temp 27.0 C -> actual temp = 27.0 C, m400gn probe



400 MHz 1D in CDCl₃ (ref. to CDCl₃ @ 7.26 ppm), temp 27.0 C -> actual temp = 27.0 C, m400gs probe

