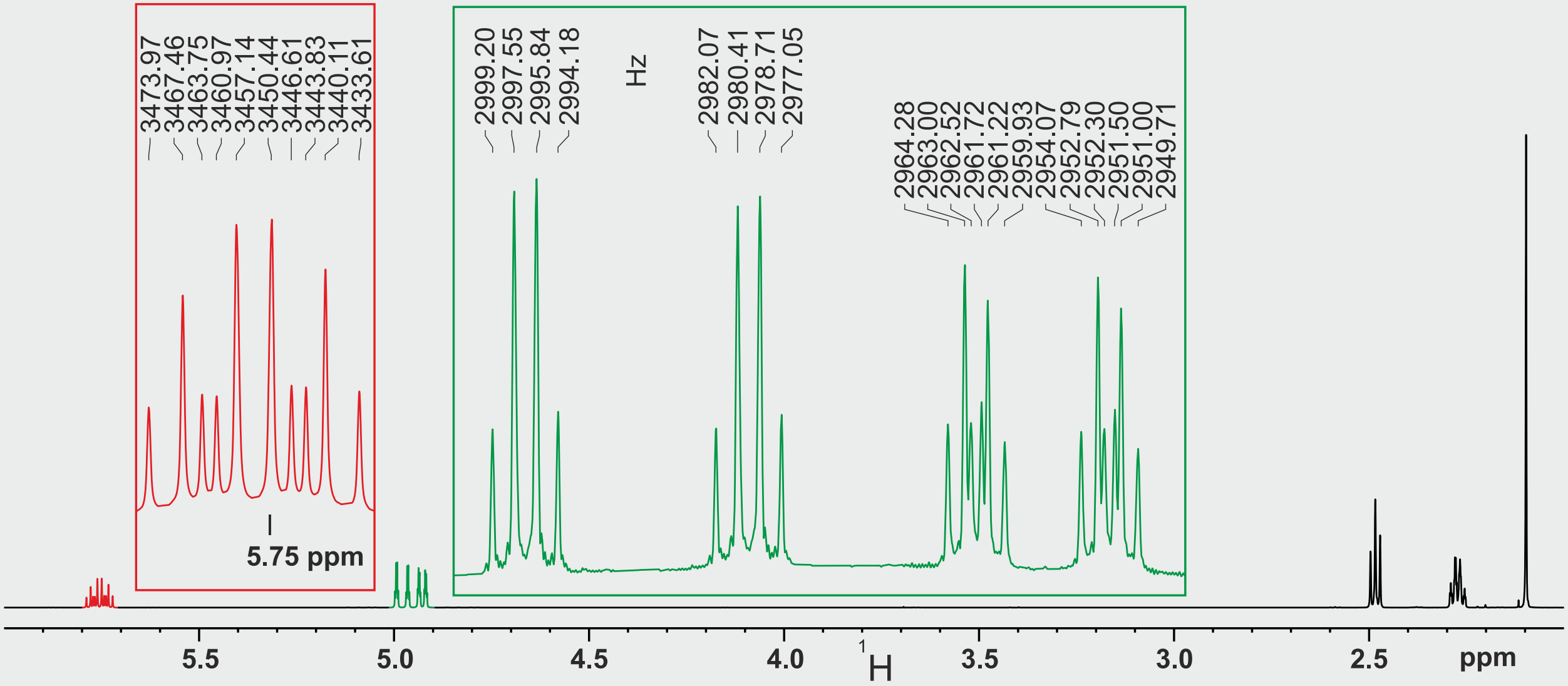
Exercise plus Solution – Quick overview

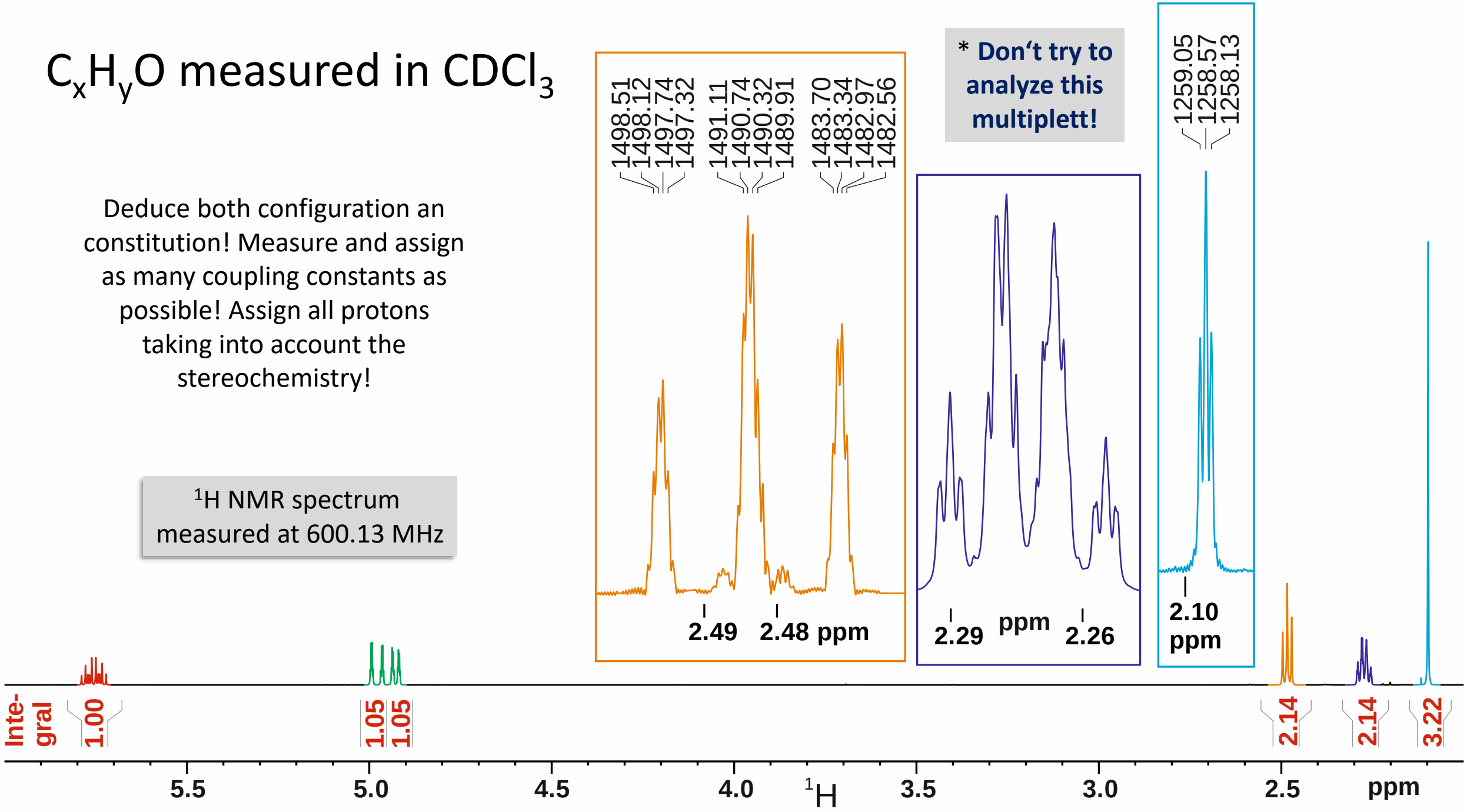
It is recommended to use this version only for a quick overview of the NMR challenge. All animations of the PowerPoint version are missing, under certain circumstances quality deficiencies may also occur.
The higher quality PowerPoint files are freely available for download at any time.



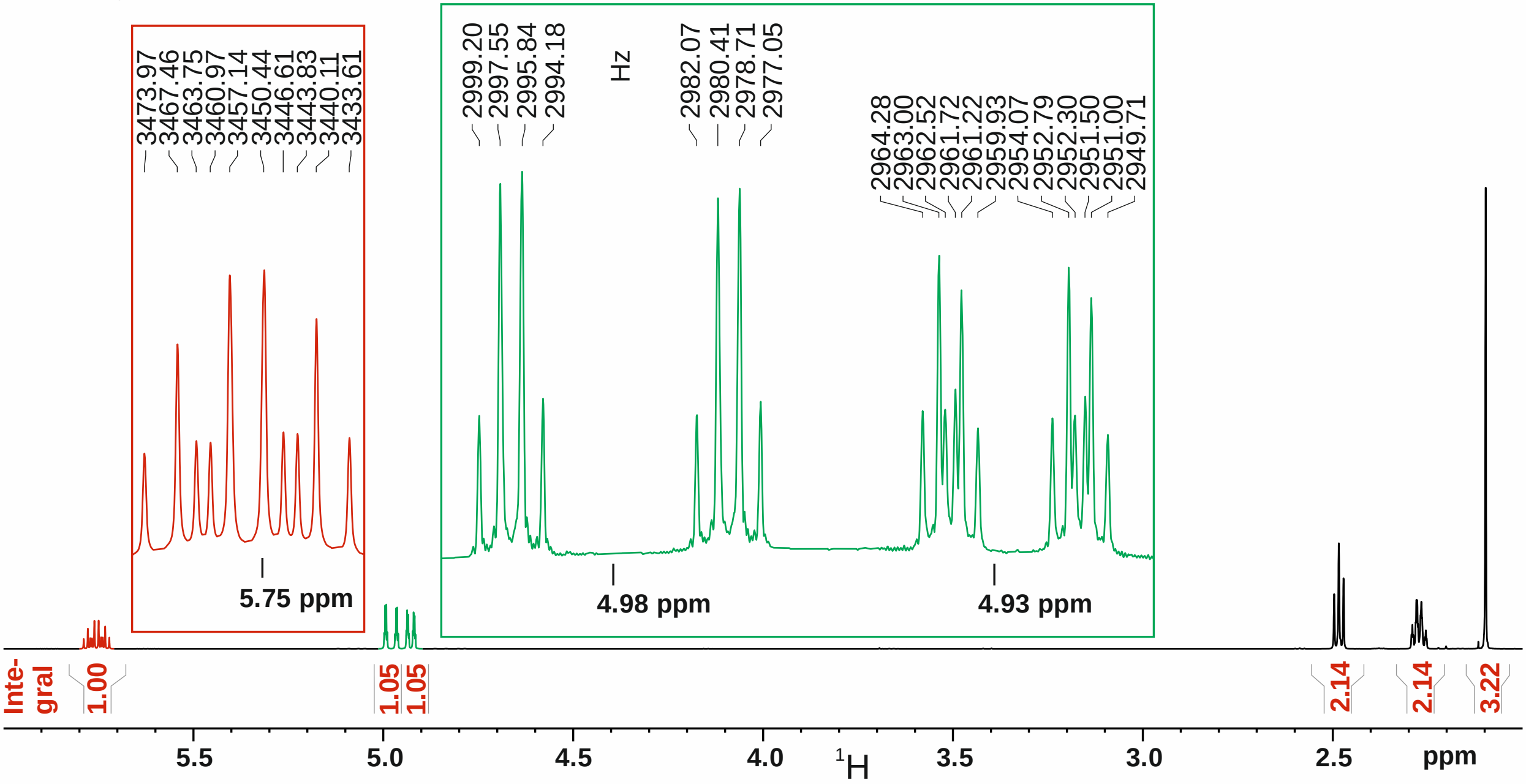
C_xH_yO measured in $CDCl_3$

Deduce both configuration an constitution! Measure and assign as many coupling constants as possible! Assign all protons taking into account the stereochemistry!

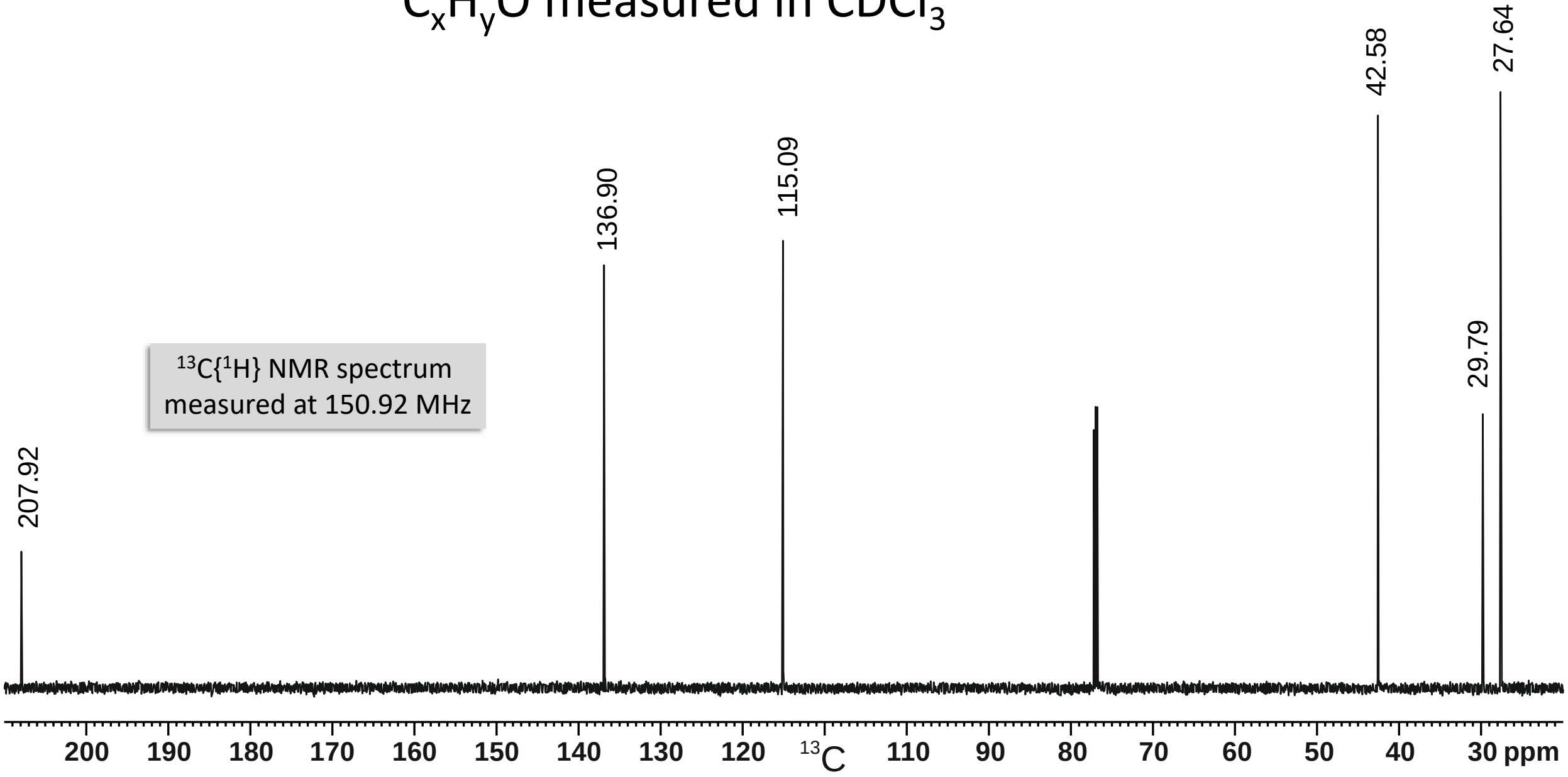
^1H NMR spectrum measured at 600.13 MHz



C_xH_yO measured in $CDCl_3$

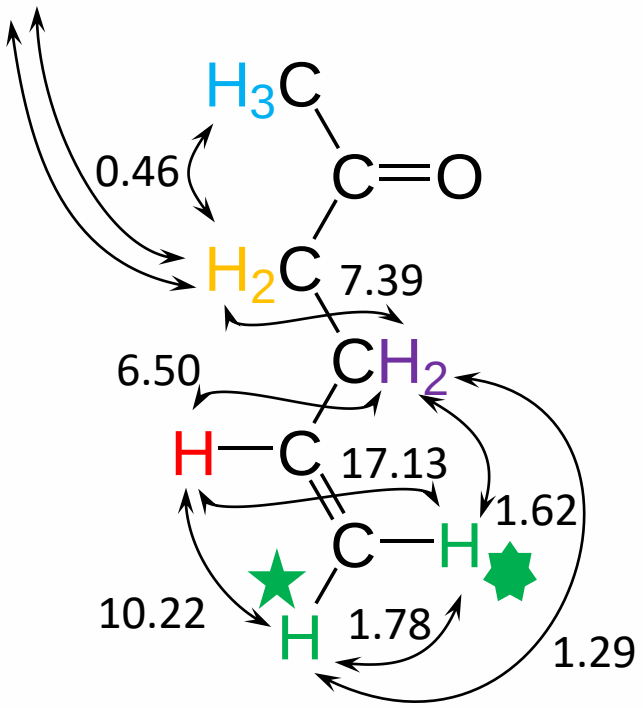


C_xH_yO measured in $CDCl_3$

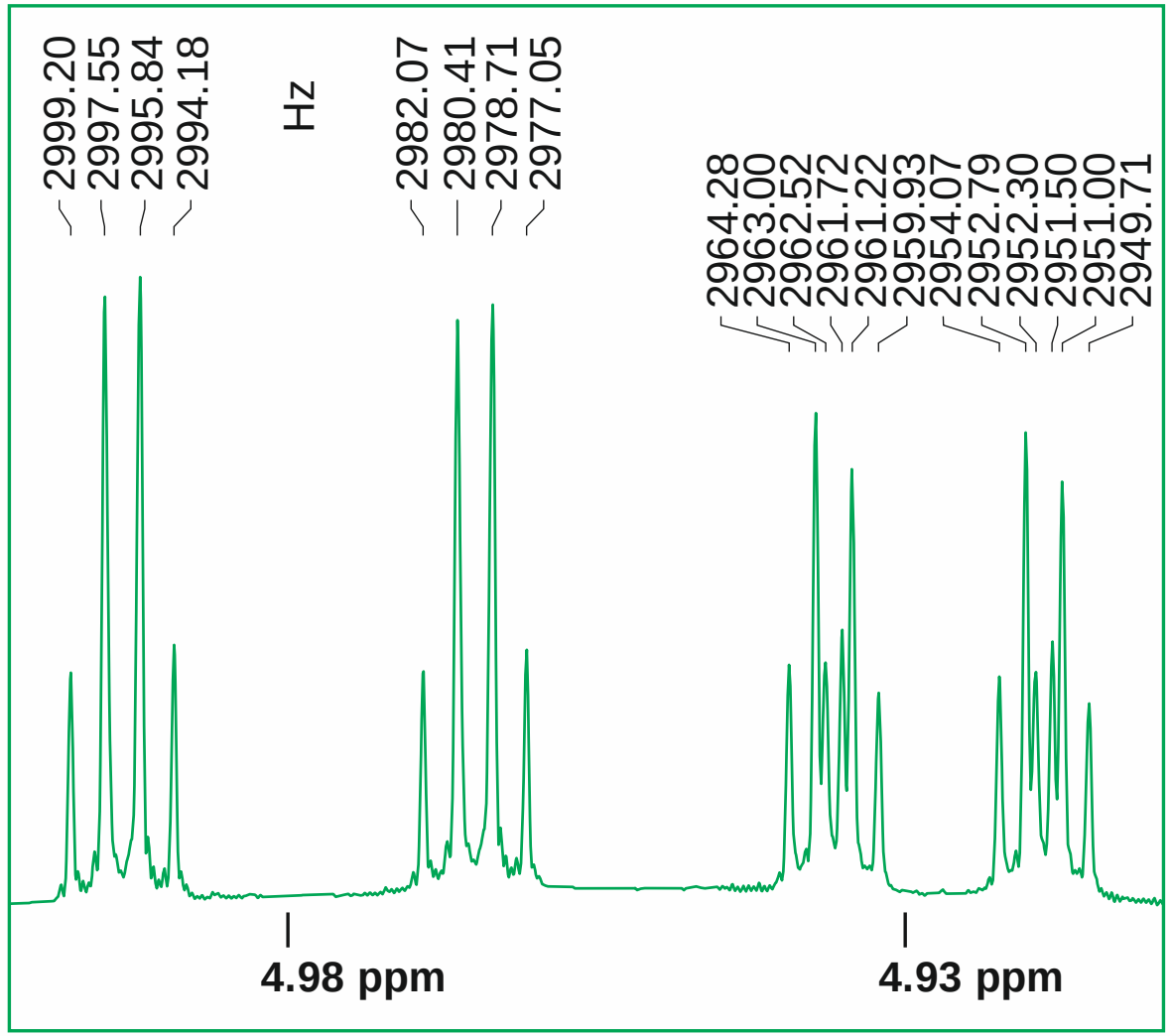


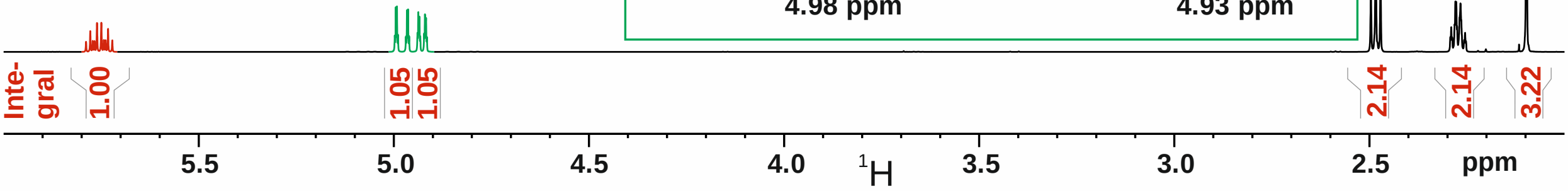
Solution at a glance

Two further long-range coupling constants of about 0.4 Hz; difficult to assign



(All coupling constants given as absolute values in Hz)





Contributions

Spectrometer time

TU Munich

Measurements

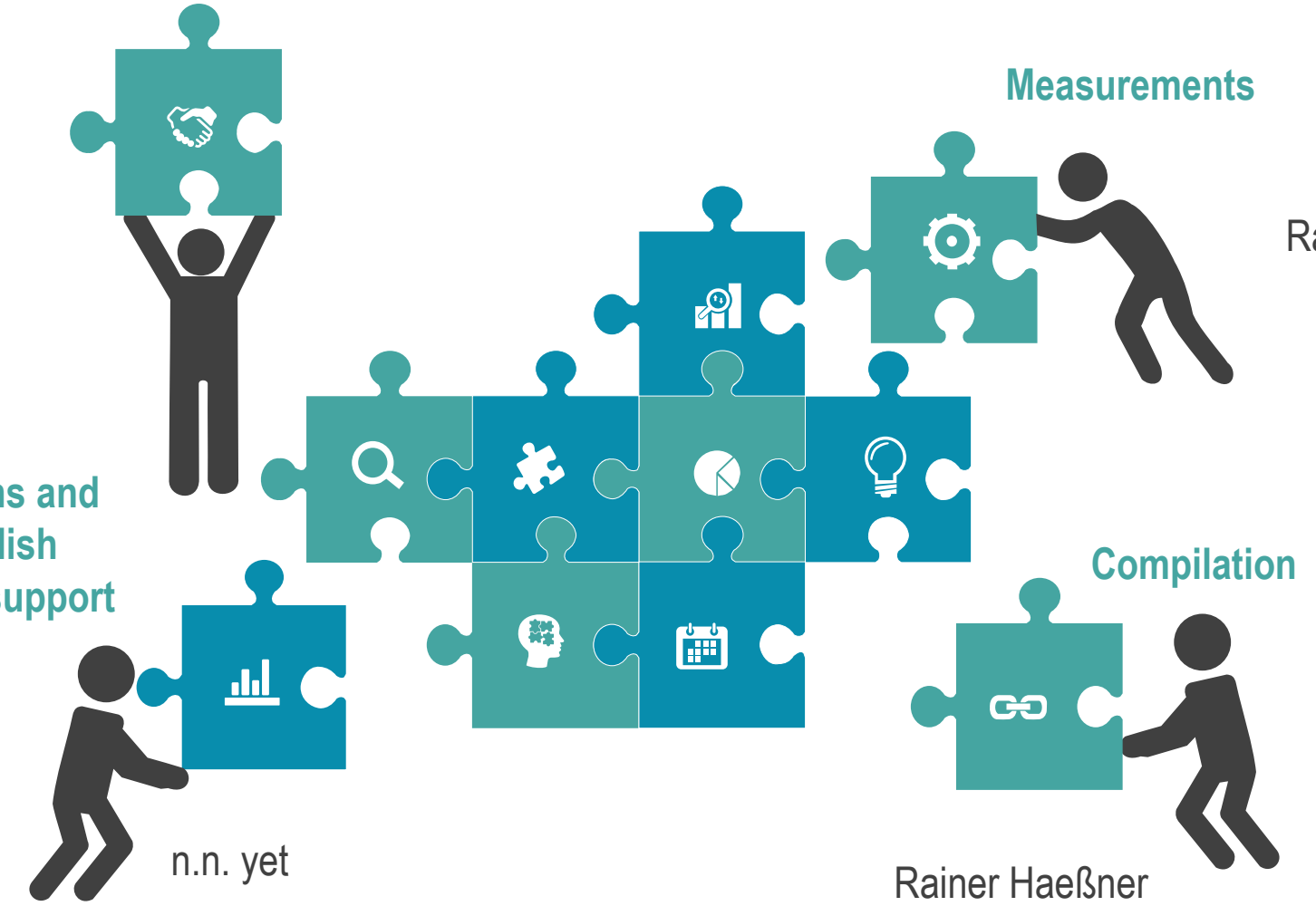
Rainer Haeßner

Discussions and native English language support

n.n. yet

Compilation

Rainer Haeßner



More exercises …