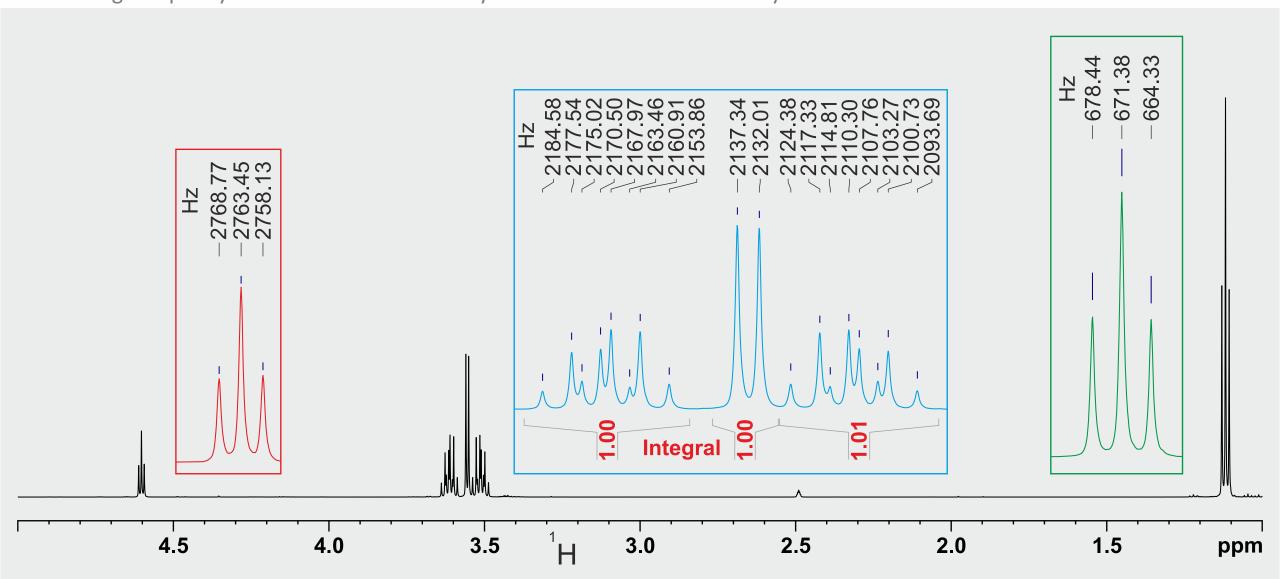
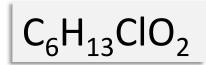
Exercise plus Solution – Quick overview

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.

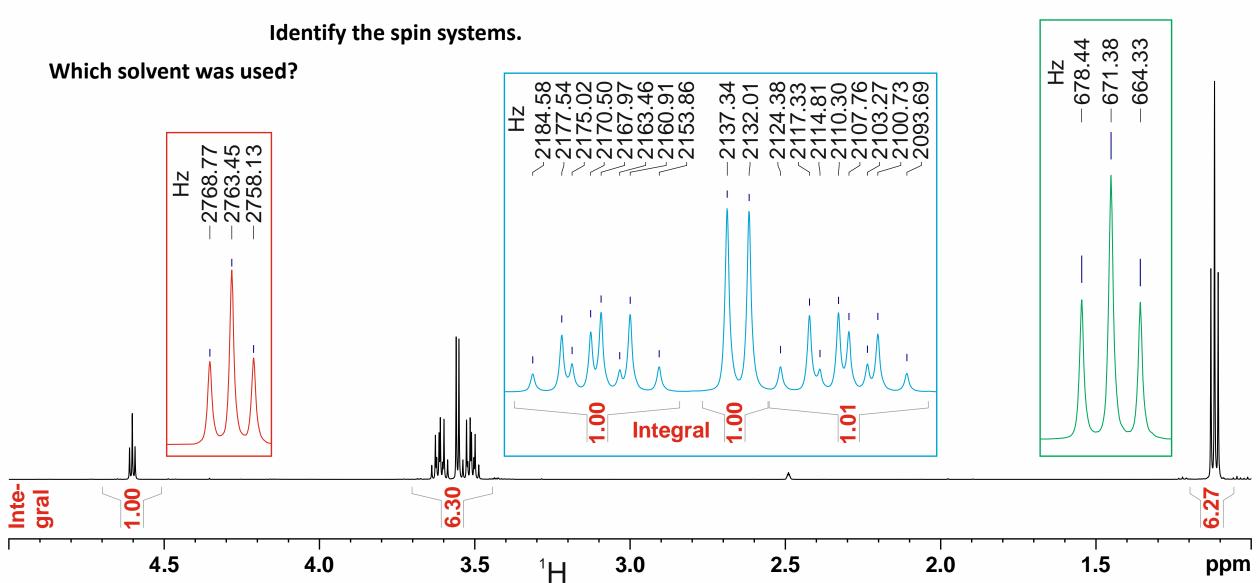


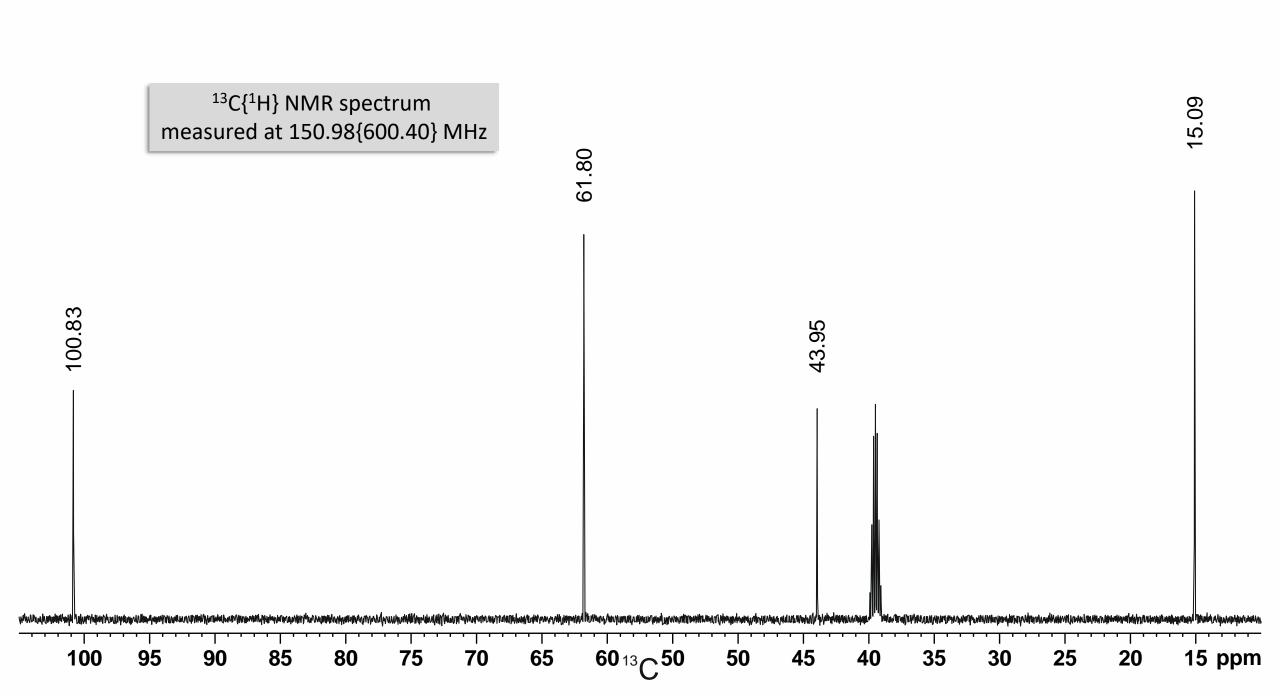


Deduce the structure and measure all homonuclear coupling constants.

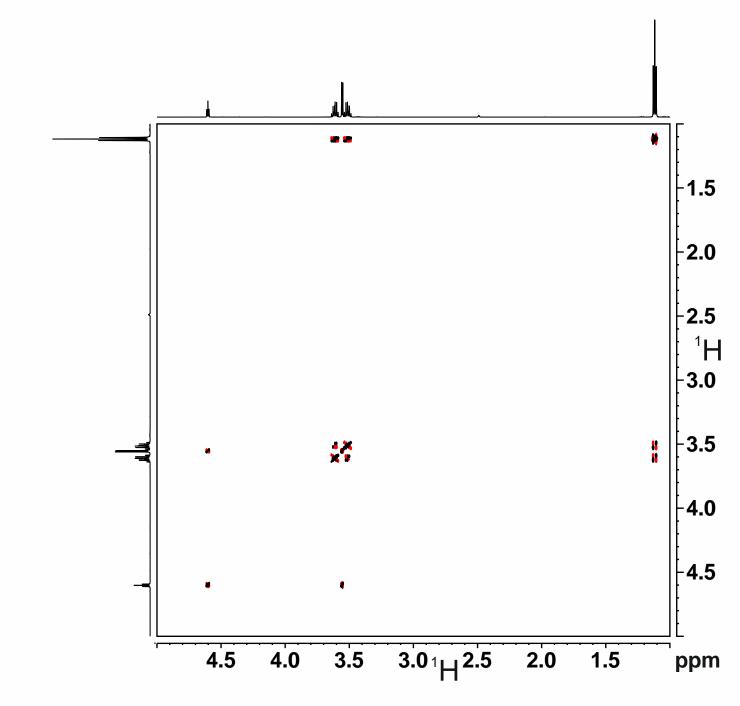
¹H NMR spectrum measured at 600.40 MHz

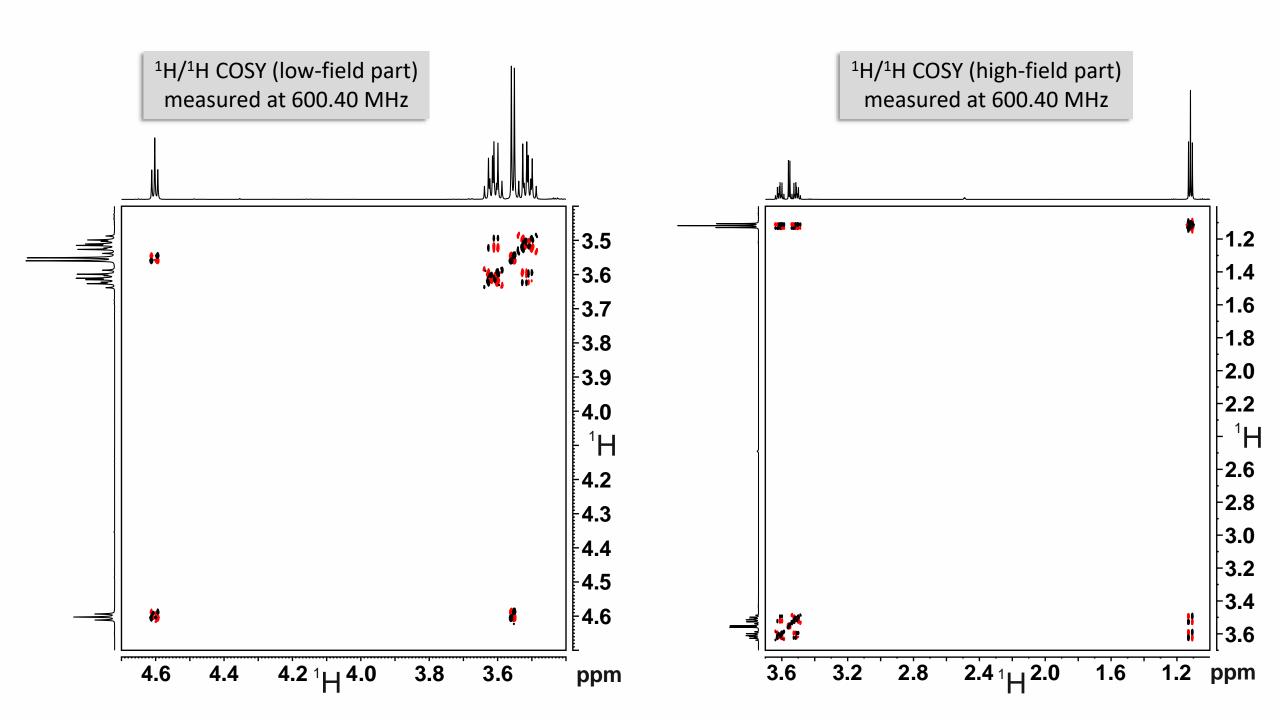
Assign all proton and carbon signals.





¹H/¹H COSY (overview) measured at 600.40 MHz



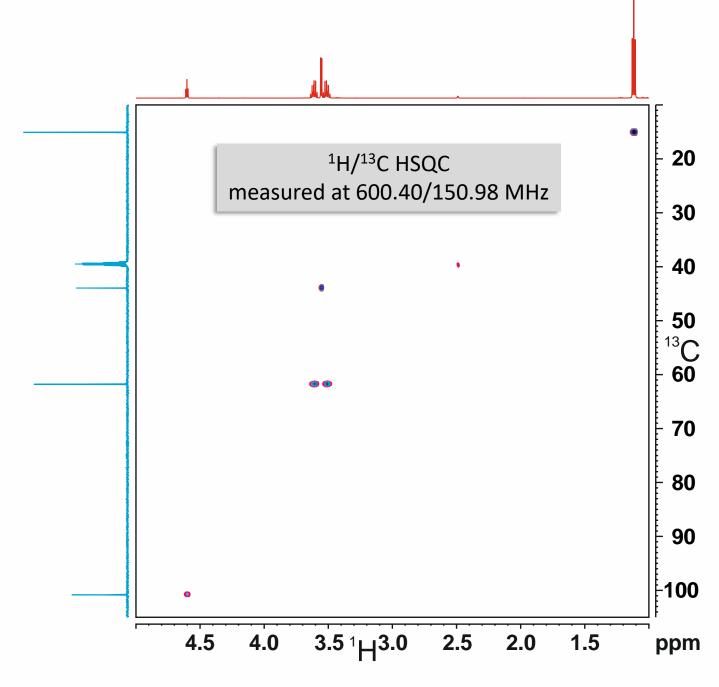


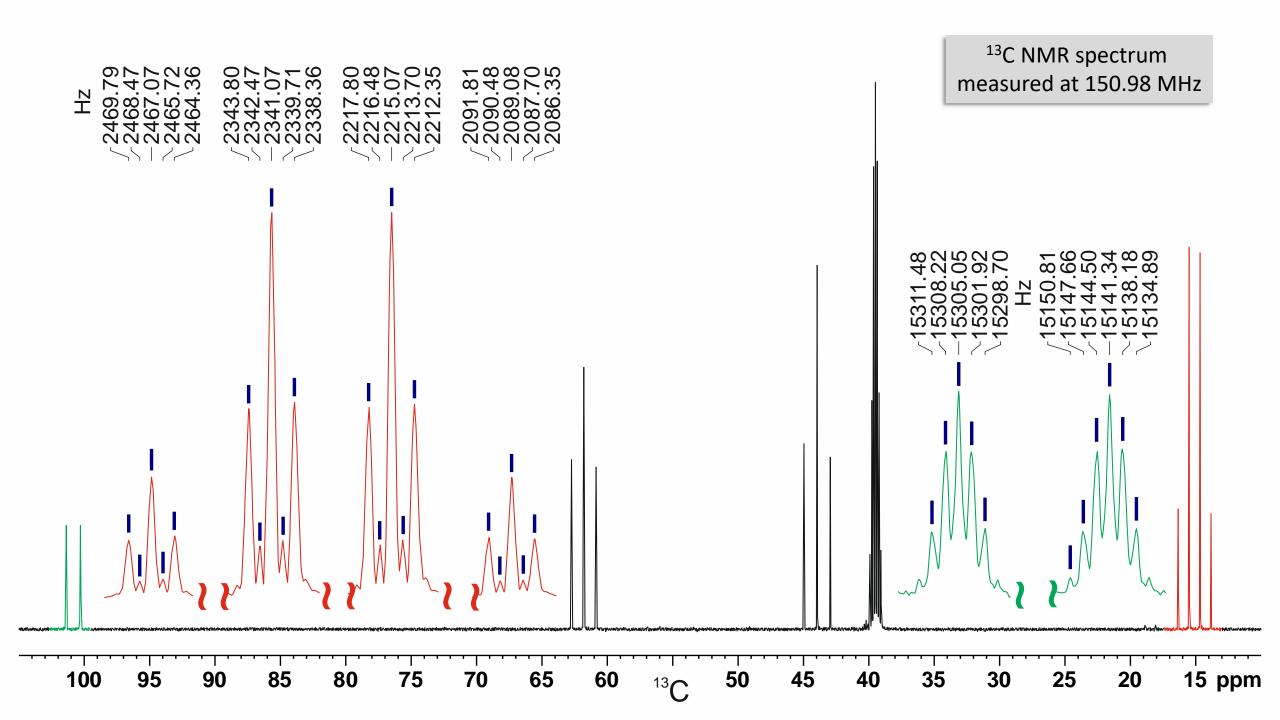
The ¹³C spectrum on the next two pages is not necessary to solve the problem.

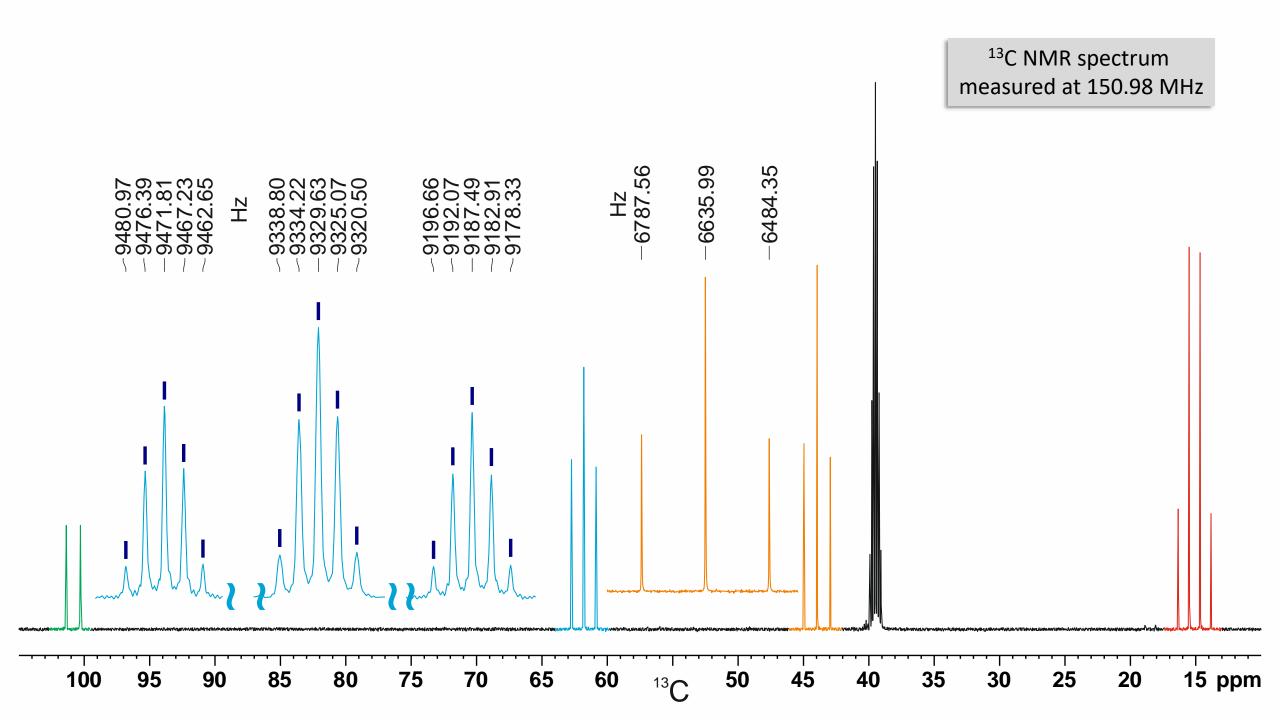
You can optionally try to understand the coupling patterns.

Same colours mean same parts of the spectrum.

Due to space restrictions, some areas within the enlarged multiplets containing noise only were removed.

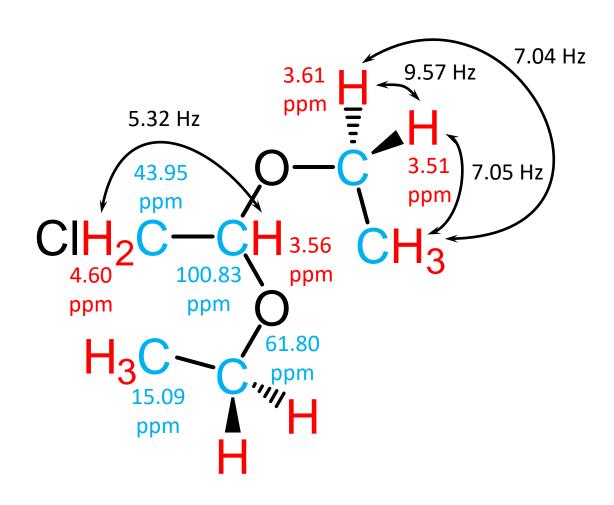




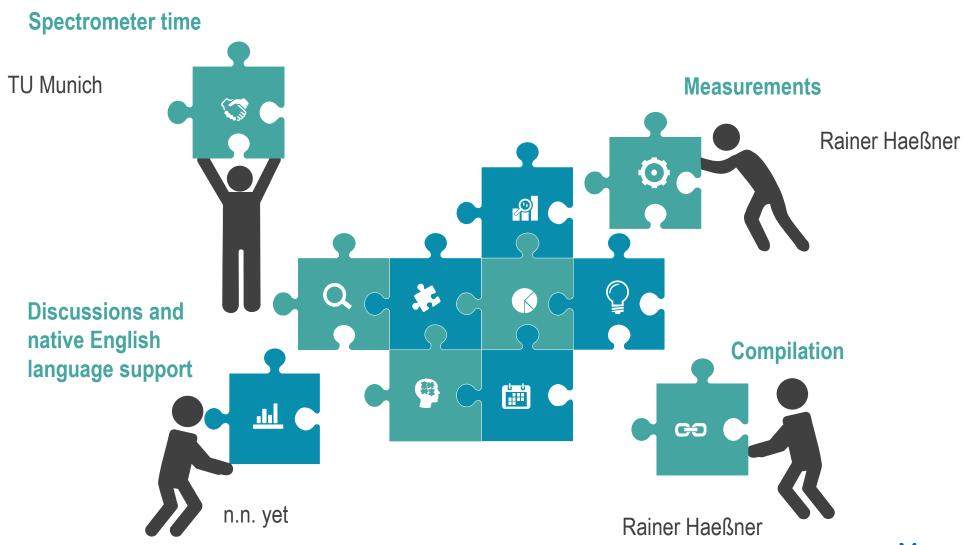


Solution at a glance

There is no step by step solution available so far.



Contributions



More exercises ...