NMR #2: Working with Spectra and Deducing Structures (Part 1)

Alrighty, gang. Now that we have some done some NMR exercises and reinforced the necessary terminology, we've put ourselves in a good position to start tackling problems where you have to deduce structures from HNMR spectra. **Do not get discouraged if you are not good at this at first: I was personally AWFUL.** It took me a lot of practice to get a feel for solving these types of problems—so if you're struggling at first, just remember to not to get frustrated, stay organized, and keep trying. If you're good at them out of the gate, then kudos to you: You've been gifted with a great, coveted gift (not really but that's awesome).

Personally, I like the strategy we discussed in the videos of calculating the units of unsaturation and then making a chart where you write all of the information you can gather about the problem in order to stay organized. However, if you find a better strategy you like better, then by all means, march to your own beat. As long as you can deduce the structure, go for it.

 Molecular Formula: C₅H₁₀O HNMR Spectrum (below): Integration #'s are in red



2.) Molecular Formula: C₆H₁₀O₂
HNMR Spectrum (below):
Integration #'s are in red





 4.) Molecular Formula: C₈H₁₈O HNMR Spectrum (below): Integration #'s are in red

