Problem R-26B (C_{11}H_{14}O_{3})
300 MHz $^1$H NMR in CDCl$_3$
Source: Aldrich Spectra Collection/Reich g
9. (15 pts.) Determine the structure of C\textsubscript{11}H\textsubscript{14}O\textsubscript{3} from the \textsuperscript{1}H NMR spectrum shown. Determine the **index of hydrogen deficiency**. Write part structures revealed by the chemical shifts, splitting and integrals for all the multiplets. In each part structure circle the hydrogens responsible for the absorption and underline the hydrogens that give rise to the splitting. *Hint: The multiplet at $\delta$ 1.40 consists of 2 overlapping triplets.*

IHD = 5

If your structure seems correct, assign the protons in it to the various peaks in the spectrum (write $\delta$ values on the structure).
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