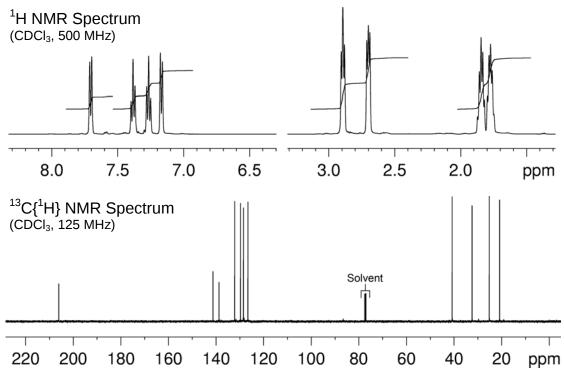
Problem 45

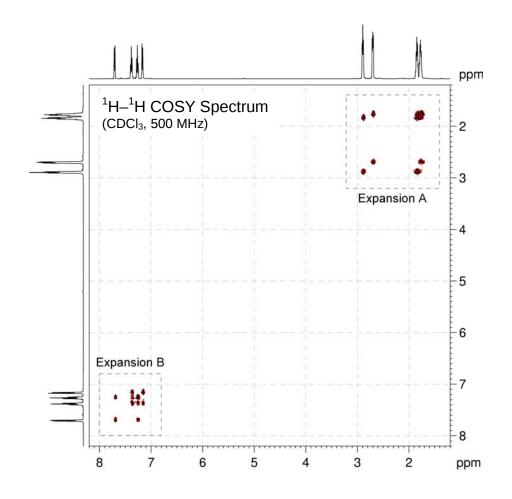
Identify the following compound. Draw a labelled structure, and use the $^1H^{-1}H$ COSY, $^1H^{-13}C$ me-HSQC and $^1H^{-13}C$ HMBC spectra to assign each of the 1H and ^{13}C resonances to the appropriate carbons and hydrogens in the structure.

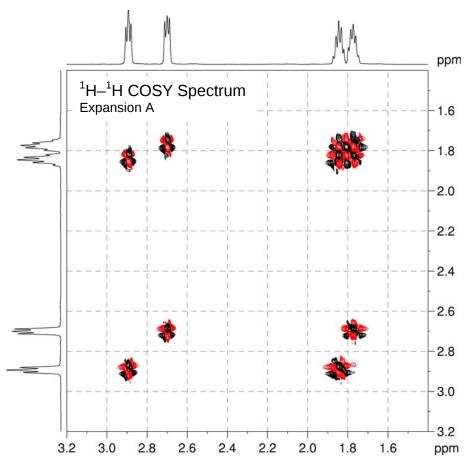
Molecular Formula: $C_{11}H_{12}O$

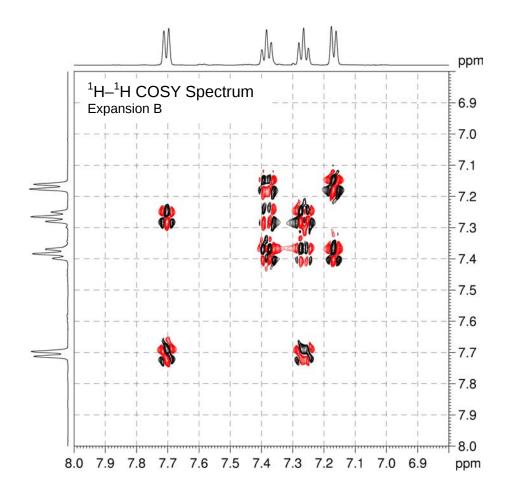
IR: 1676 cm⁻¹

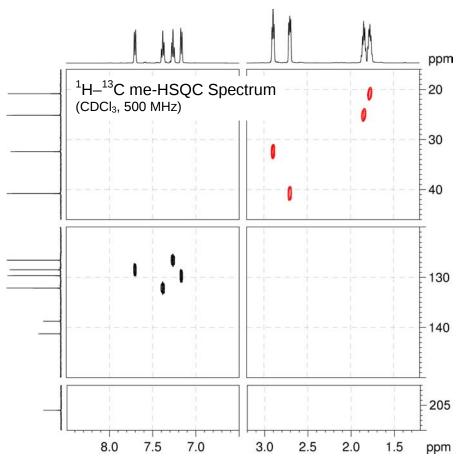


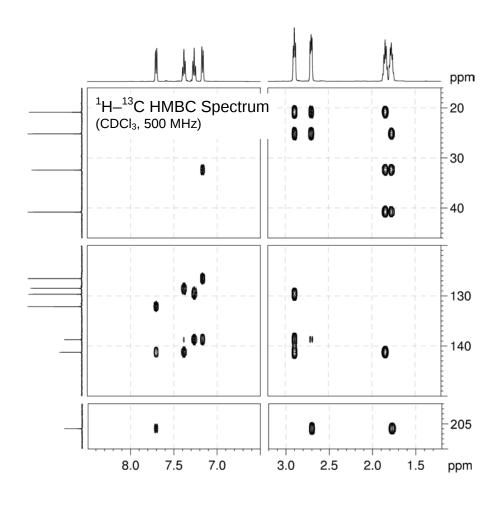
Proton	oton Chemical Shift (ppm) Carbo		Chemical Shift (ppm)	











Structure:		