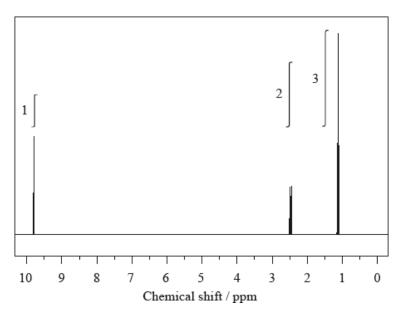
HL Paper 3

The $^1H\,NMR$ spectrum of X with molecular formula C_3H_6O is shown below.



State and explain the splitting pattern you would expect in a high resolution spectrum for the peak at 1.1 ppm.

Markscheme

triplet;

next to a carbon atom that is attached to two hydrogen atoms;

Apply ECF.

CH₃COCH₃: singlet; no neighbouring H-atoms

CH₂=CH-CH₂OH: correct multiplicity and explanation for any peak.

Examiners report

Candidates understood this area well and scored most of the marks.