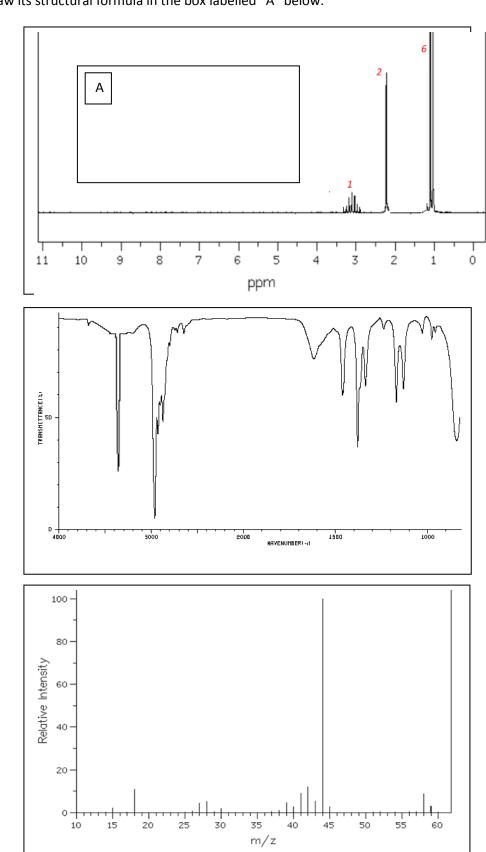
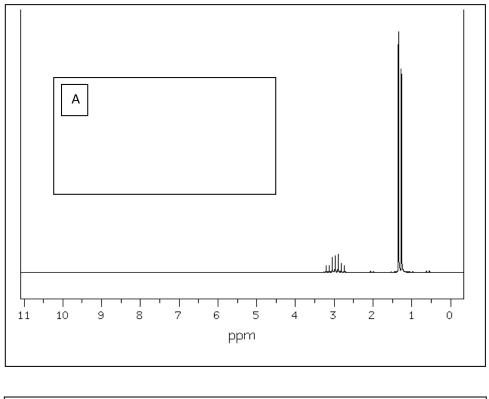
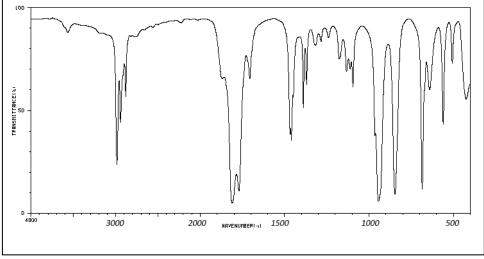
## Friday Worksheet 3 Infared Radiation (IR)

Name: .....



 The <sup>1</sup>HNMR, IR and the MS of a compound with the *empirical* formula C<sub>3</sub>H<sub>9</sub>N are shown below. Draw its structural formula in the box labelled "A" below. 2) Below are the <sup>1</sup>HNMR and IR spectra of a molecule with the molecular formula  $C_4H_7CIO$ . Draw the structural formula of the compound in the box labelled "A" below.





3) Which of the following molecules cannot be identified through IR? Explain why.  $CH_3OH$ ,  $CO_2$ ,  $Cl_2$ ,  $CH_4$  and  $O_2$ .