1) Consider the following ^{1}HNMR spectra. They represent molecules with the molecular formula $C_5H_{10}O_2$ the semi-structural formula is shown on the right.
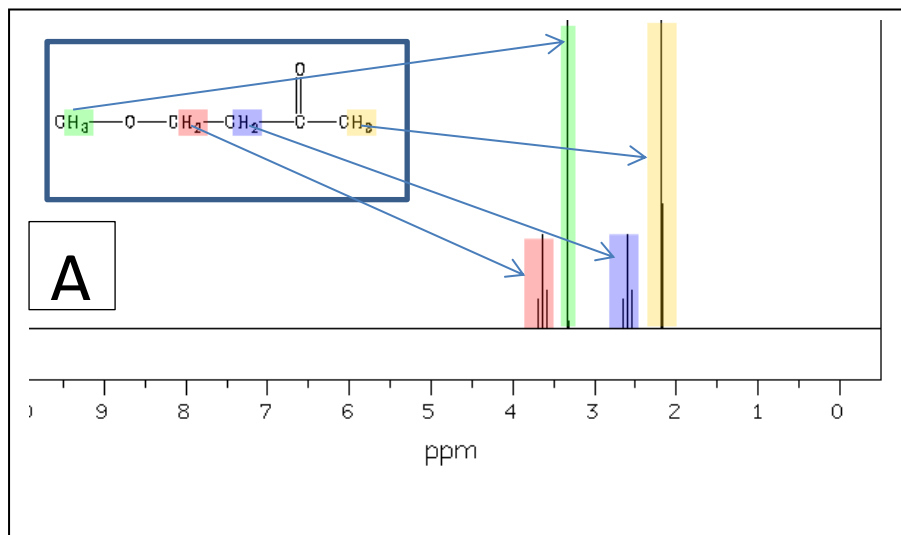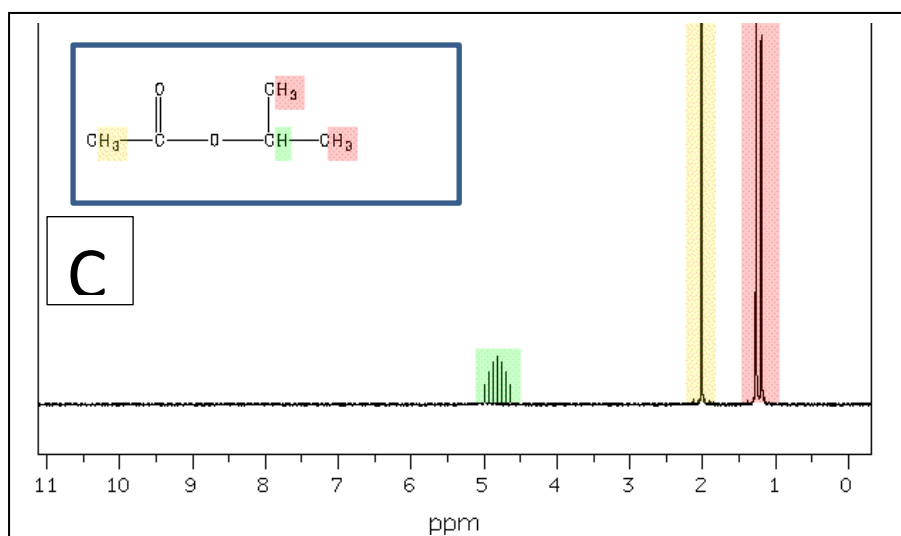

a) $CH_3C(CH_3)_2COOH$

b) $CH_3CH(CH_3)COOCH_3$

c) $CH_3COOCH_2CH_2CH_3$

d) $CH_3COOCH(CH_3)CH_3$

e) $CH_3COH(CH_3)COCH_3$

f) $CH_3OCH_2CH_2COCH_3$
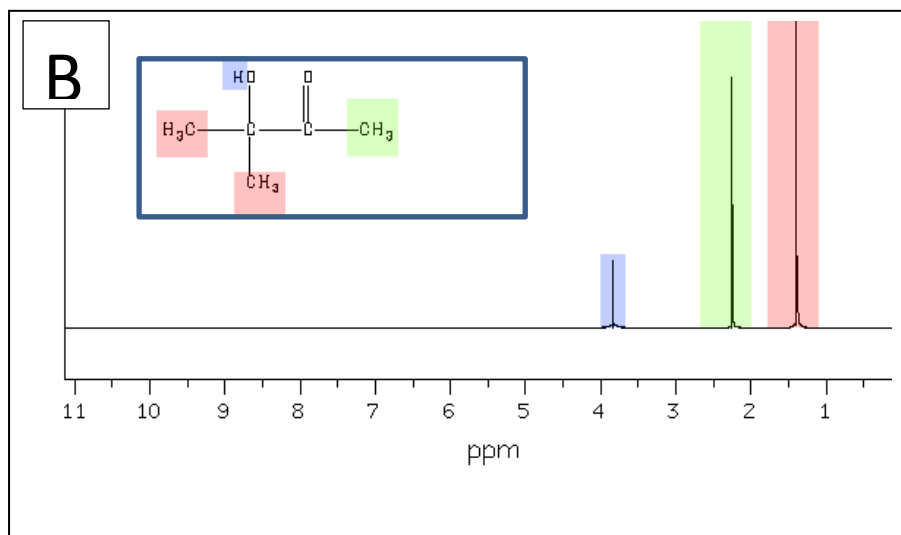
1)Match the spectrum with the molecule.

A = f
B = e
C = d
D = b
E = c
F = a

2) Draw the structural formula of each molecule and indicate the hydrogens that represent each signal in the spectrum. A is already done for you

D

E

F