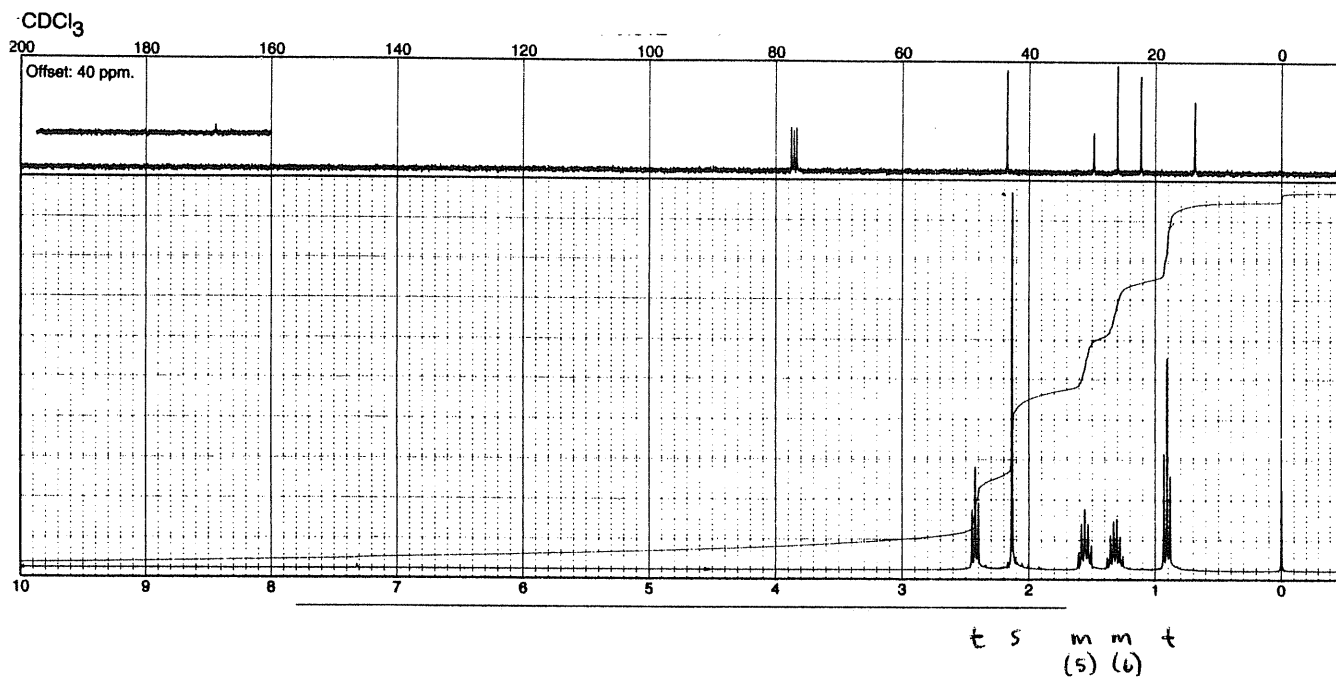


4:141 Organic Lab - Sample Problems, Structure Determination

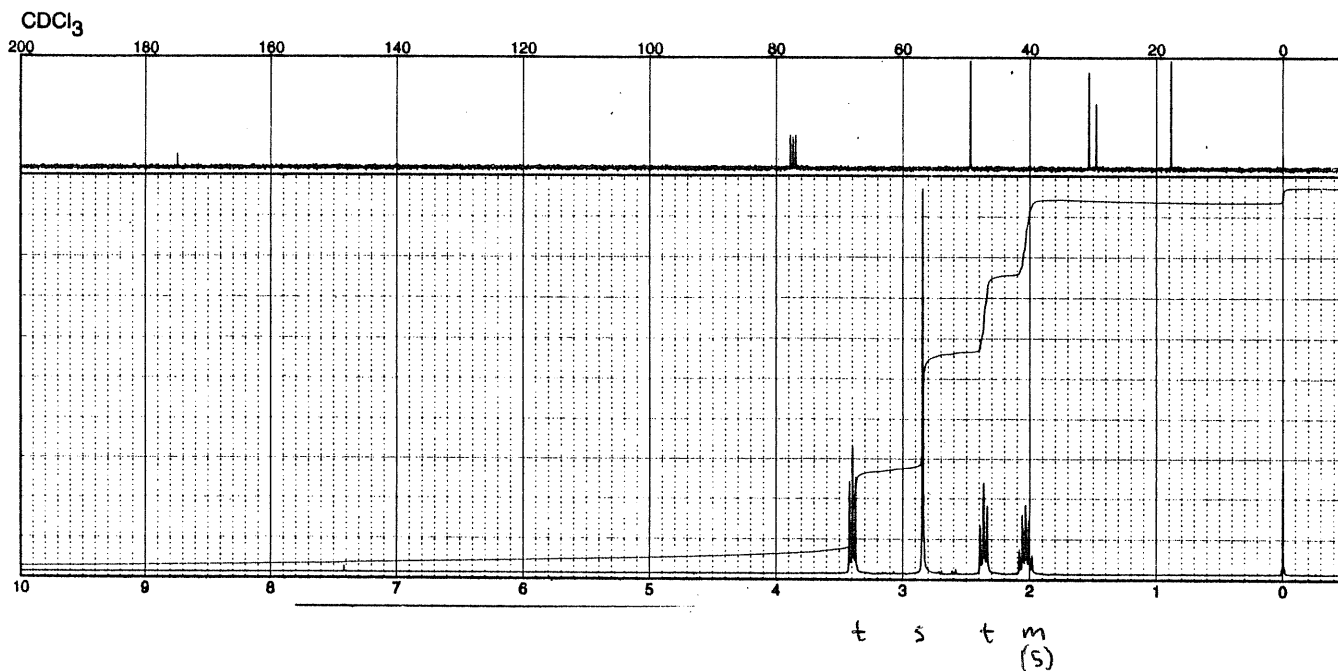
Compound A: $C_6H_{12}O$

IR only sp^3 C-H, C=O is present



Compound B: C_5H_9NO

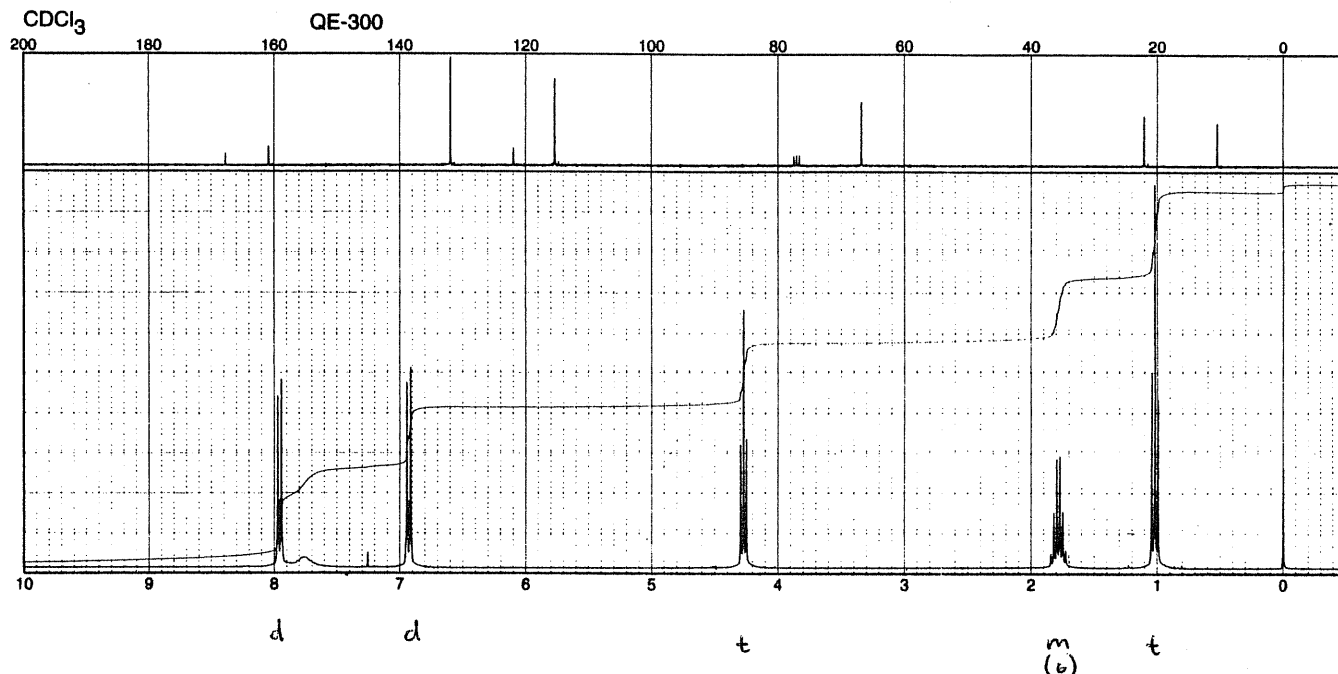
IR C=O (below 1700 cm^{-1})
no peaks above 3000 cm^{-1}



4:141 Organic Lab - Sample Problems, Structure Determination

Compound C: $C_{10}H_{12}O_3$

IR 3300 (broad),
C=O present,
 sp^2 and sp^3 C-H



Compound D: $C_8H_{11}NO$

IR 3 broad peaks $>3000\text{ cm}^{-1}$
 sp^2 and sp^3 C-H
no C=O present

