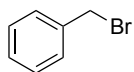


Chem 236 – Homework Assignment #7

Due December 4, 2023 (Before Lecture Begins)

1. Determine the number of chemical shifts for each of the following compounds below.



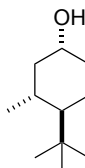
4



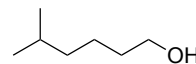
4



6

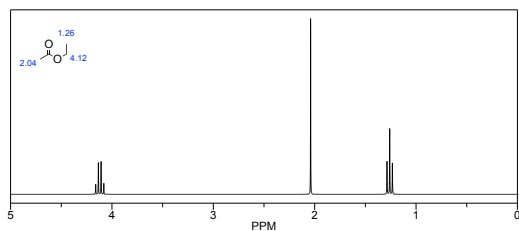
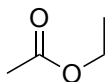
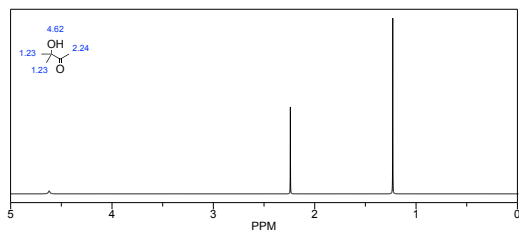
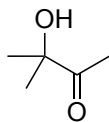


9

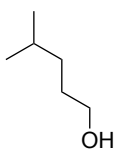


7

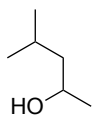
2. Determine the number of chemical shifts for each compound below and identify the multiplicity for each shift.



3. Below are the predicted ¹H NMR spectra for each of the conformation isomers. Label the peaks and determine which spectra belongs to each compound.



Chemical Formula: C₆H₁₄O
Molecular Weight: 102.18



Chemical Formula: C₆H₁₄O
Molecular Weight: 102.18

