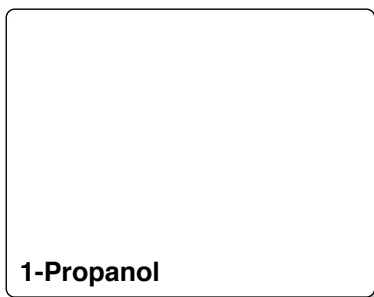


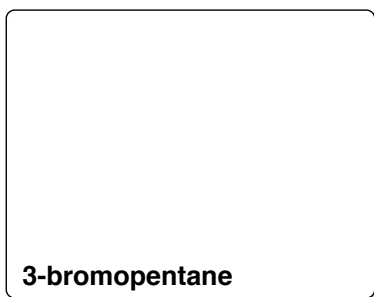
Potential Structures: Draw each structure, determine the number of unique carbons and protons, determine the splitting pattern for each set of protons (singlet, doublet, etc), and determine the key IR resonance and its location. Then match each structure to the ^{13}C and ^1H NMR.



unique number of carbons: _____

unique number of protons: _____

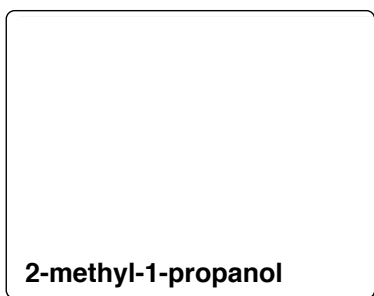
major IR resonance and location: _____



unique number of carbons: _____

unique number of protons: _____

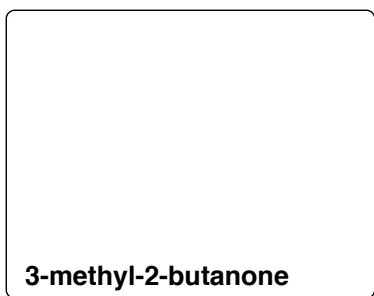
major IR resonance and location: _____



unique number of carbons: _____

unique number of protons: _____

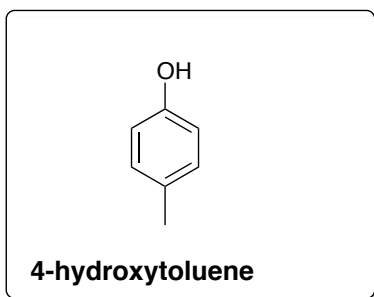
major IR resonance and location: _____



unique number of carbons: _____

unique number of protons: _____

major IR resonance and location: _____



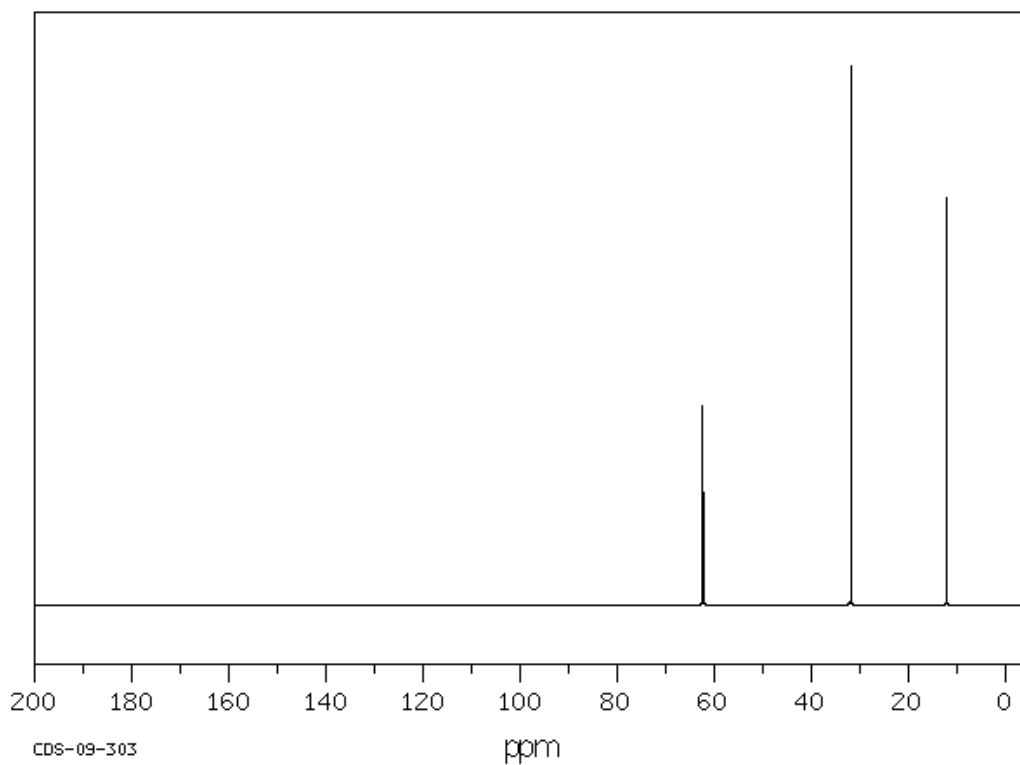
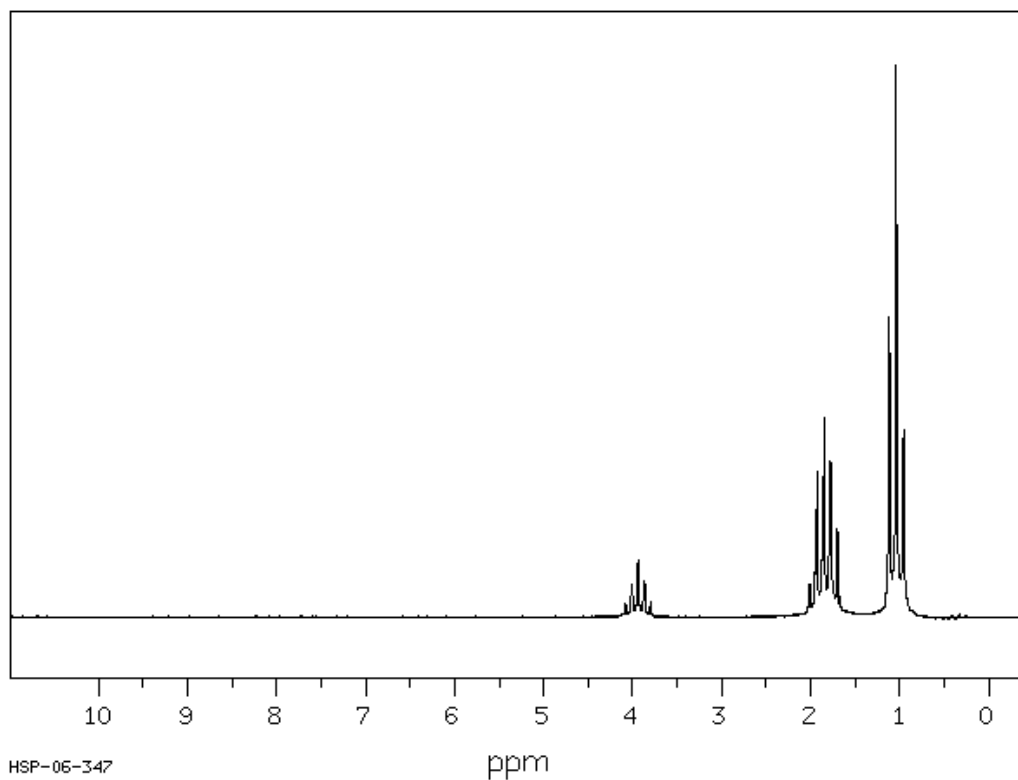
unique number of carbons: _____

unique number of protons: _____

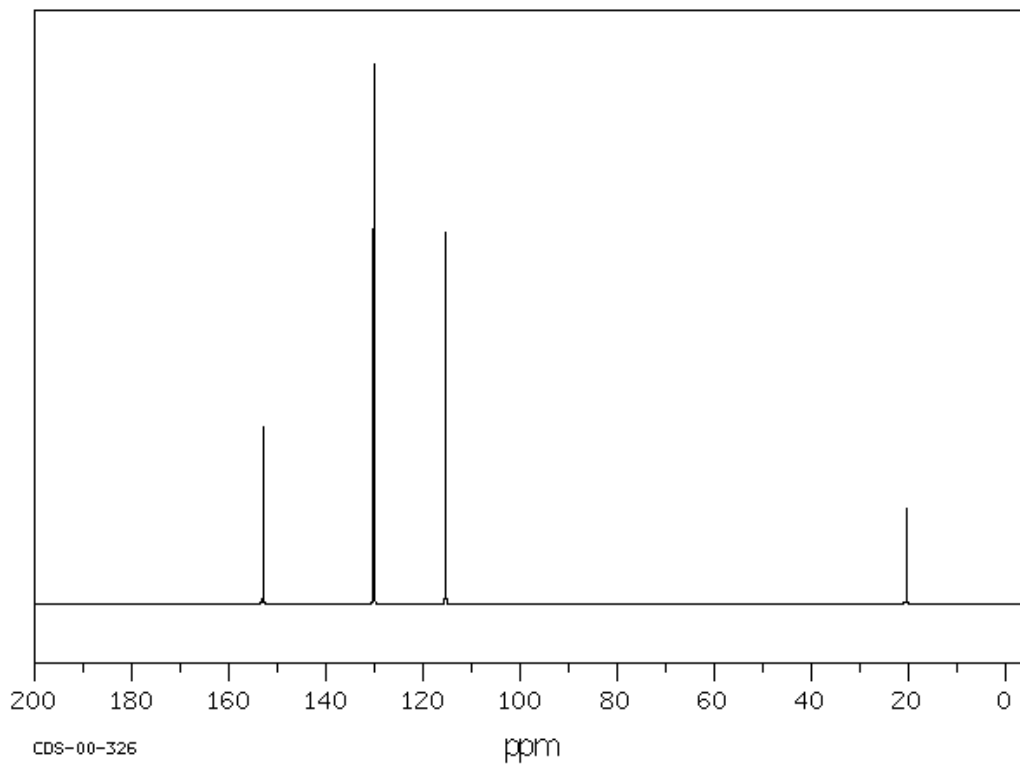
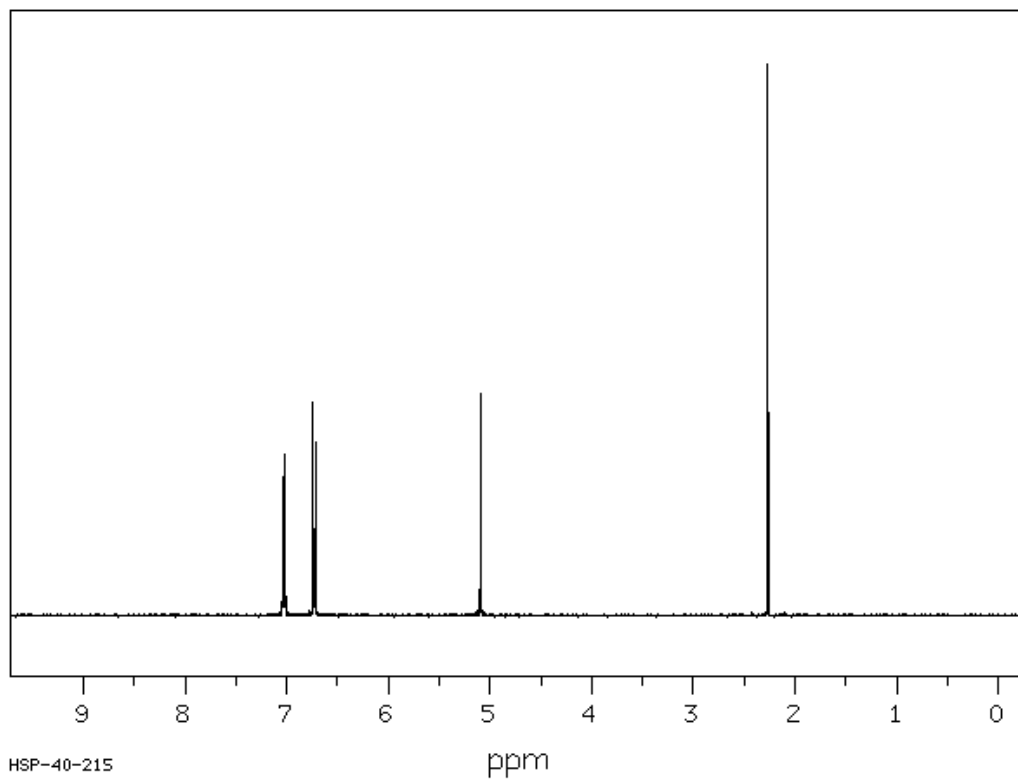
major IR resonance and location: _____

Identify each structure and label the ^1H NMR and ^{13}C NMR.

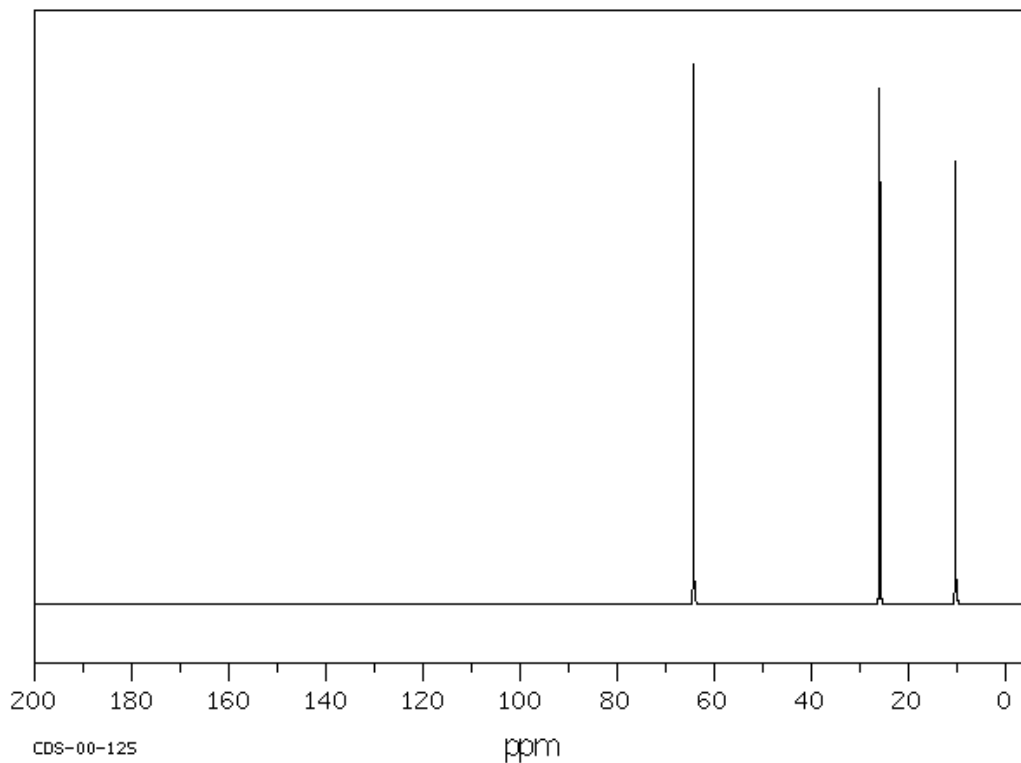
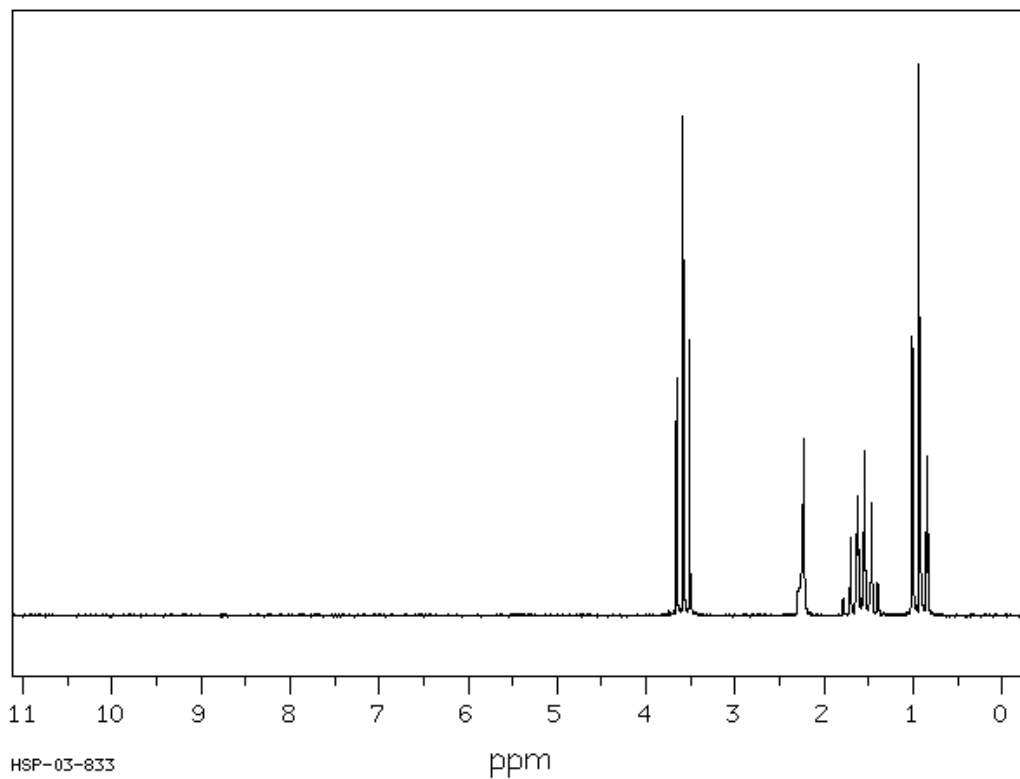
Structure: _____



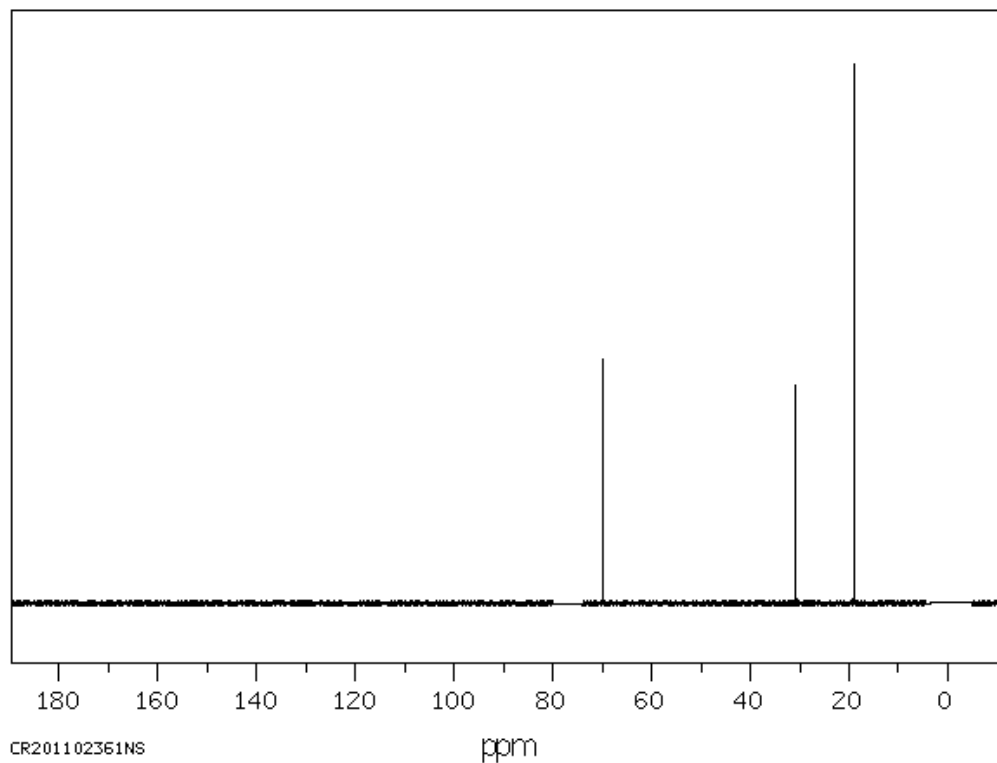
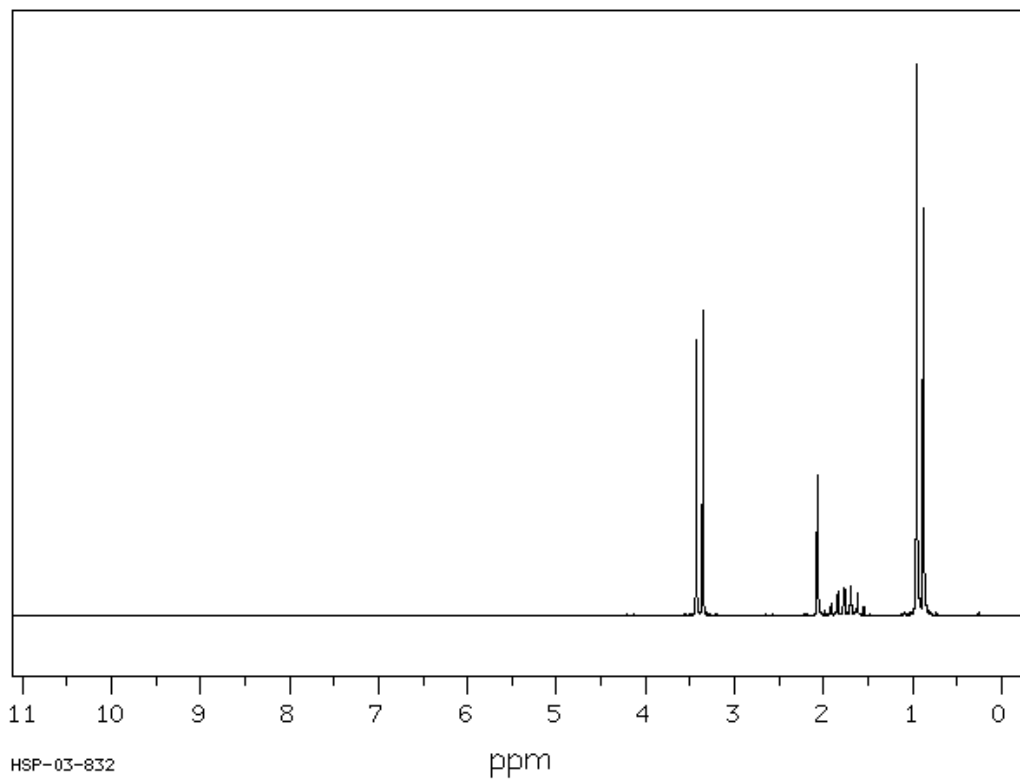
Structure: _____



Structure: _____



Structure: _____



Structure: _____

