

Names: _____
Chem 227 / Dr. Rusay

Sec. _____

¹³C NMR Spectroscopy: Interpretation / Prediction & Reactions Lab Worksheet
Refer to: <http://chemconnections.org/organic/chem227/IR-NMR/IR-MS-NMR-09.html> (Part IV)

Provide structures and ¹³C NMR data supporting each respective structure with peak assignments.

<i>Unknown's Structure and labeled carbon atoms</i>	<i>Provide chemical shifts (δ ppm), and respective splitting patterns: singlet (s), doublet (d), triplet (t), quartet (q) for each ¹³C signal.</i>
<i>EXAMPLE:</i> $\begin{array}{cc} a & b \\ \text{CH}_3 & \text{CH}_2\text{OH} \end{array}$	$\begin{array}{l} a \quad \delta = 18.13 (q) \\ b \quad \delta = 57.79 (t) \end{array}$
<i>UNKNOWN A</i>	
<i>UNKNOWN B</i>	
<i>UNKNOWN C</i>	

<i>UNKNOWN D</i>	
<i>UNKNOWN E</i>	
<i>UNKNOWN F</i>	
<i>UNKNOWN G</i>	
<i>UNKNOWN H</i>	
<i>UNKNOWN I</i>	

