***\_\_\_/30***

**Rubric: Experiment 4A:Chem 6614   
*Identifying Unknown Organic Compounds via Infrared Spectroscopy***

**\_\_\_2 industry standard followed.** Subsections titled

**\_\_\_/5 individual interview about instruments**

**\_\_/2 Purpose:** states actual desired goal and is done succinctly in full sentences

**\_\_/3 Observations/Calculations**

\_\_\_ ATR run conditions annotated and instrument identity (make, model, serial # of instrument)

\_\_\_Table 1 Band positions (ATR) along with shape and intensity tabulated

\_ \_\_Reference spectra from referenced source compared and assigned

If a library identification was obtained, list this as an Observation. Note that the Library assignments are not always to be trusted (as you learned in lab). The `Rationale’ you provide in Results should be based on physical reasoning, not blind trust in the computer gods.

**\_\_\_/18 Results**

\_\_\_ right answer (12)

\_\_\_Group frequency assignment table follows page 5 format (2)

\_\_\_ Rationale for answer is sensible (4)

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