

REPORT GUIDE

Report Due: Wednesday, January 24/Thursday Jan 25 (at the beginning of lab)

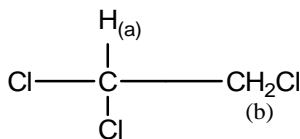
For this lab you will simply interpret the NMR spectrum and identify the unknown compound.

This experiment will be done in pairs. Each pair will turn in only 1 report.

REPORT

Turn in a copy of your spectrum and draw the structure of the compound it represents in the upper right hand corner. At the top left corner write your name **and** the name of your partner.

On an attached page draw the structure and label each different type of proton a, b, c, d, etc. For example this is how it would be done for the trichloroethane molecule.



Below the molecule report each peak of the NMR using the following system: For each proton listed (H_a and H_b) list the absorption (δ) from the center of the peak/multiplicity, followed by (in parenthesis) with the multiplicity and integration value.

To denote the multiplicity (splitting) of a signal: a singlet is s, doublet: d, triplet t, quartet q multiplet m.

For integration values simple put the number of protons followed by an H.

EXAMPLE; For the NMR spectrum of trichloroethane (see figure 26.11 on pg 882 of your text) you would label that spectrum as such:

H_(a) δ 5.8 (t, 1H)

H_(b) δ 4.0 (d, 2H)

For this lab you do NOT have to write a Purpose, Theory, Data, analysis, conclusion. There are no questions to be answered for this lab.