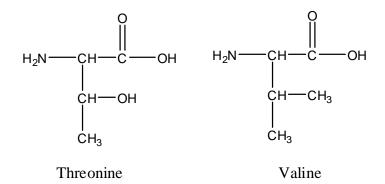
Chemistry 3.2 (and 3.5)

Worksheet 12

Name

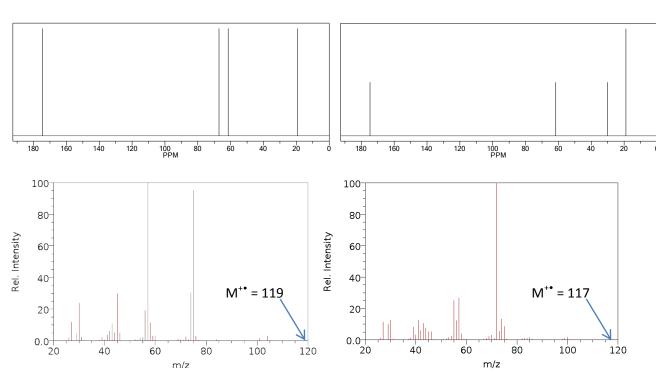
Question One- Amino acids



i) Draw two possible dipeptide made from threonine and valine

ii) Discuss why Threonine has 4 possible enantiomers while Valine has two. Also discuss the similarity and difference in physical and chemical properties between enantiomers.

iii) The spectrums of the two amino acid is mixed up, label each spectrum with the type of spectrum as well as the amino acid



iv) Discribe the possible similarities and differences in the IR spectrum between Valine and Threonine.
Explain why the IR spectrum of the two would be confusing to distinguish.