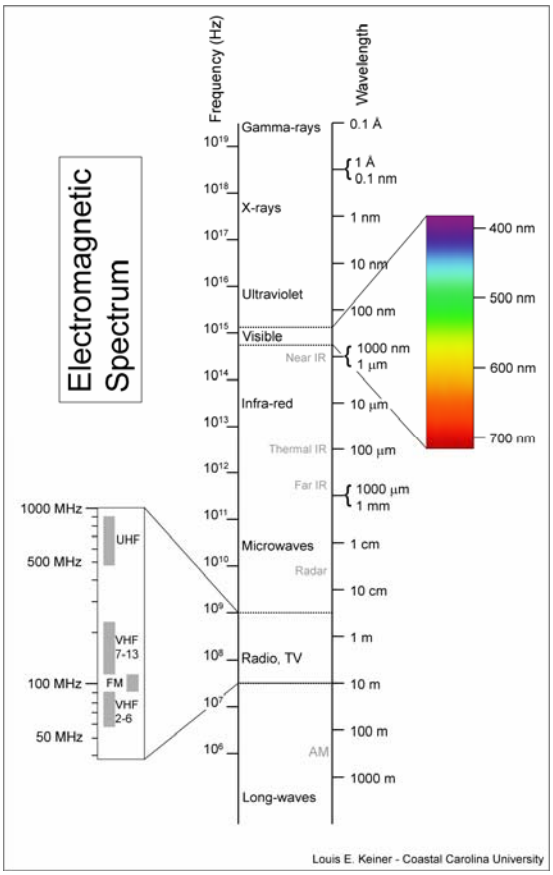
Lecture 4
Spectrochemical Information

Electromagnetic radiation

Electromagnetic spectrum



Optical spectrochemical analysis

Atomic spectroscopy

Molecular spectroscopy

Types of Analysis

Sample

Analyte

Matrix

Concomitant

Chemical speciation

Radiation-matter interaction

Emission

Reflection

Scattering

Absorption

Analysis of real samples

Calibration data

Atomic and molecular spectra

Atomic spectra

Molecular electronic spectra

Optimization

Evaluation criteria

Figures of merit