Hill-Petrucci

Pages 293 & 294 #32,33,36,37

32. a.
$$f = 2.61 \times 10^{16} \text{ s}^{-1}$$
 ultraviolet
b. $f = 3.22 \times 10^9 \text{ s}^{-1}$ microwave
c. $f = 1.55 \times 10^2 \text{ s}^{-1}$ ELF

37. The violet light has greater energy than the red 655 nm light. Energy increases as wavelength decreases and frequency increases.