Answer on Question #55381 – Chemistry - General Chemistry

Question:

What is the wavelength of a microwave having a frequency of 7.74 x 10^6 hz?

Answer:

The velocity of a microvawe is $3 \cdot 10^8$ m/s.

$$\lambda = \frac{v}{f} \qquad \lambda = \frac{3.00 \cdot 10^8}{7.74 \cdot 10^6} = 39\ m$$