the longest wavelengths (a kilometer or more)

RADIO

frequency

1000 kHz

wavelengths tens to hundreds of meters long

RADIO

frequency

10 MHz

wavelengths a few meters long

RADIO

frequency

wavelengths centimeters long

RADIO

frequency

1 GHz

wavelengths about a centimeter long

RADIO

frequency

10 Hz

10 GHz

wavelengths millimeters long

MICROWAVES

frequency

100 Hz

100 GHz

wavelengths about a millimeter long, like a pinpoint

(MICROWAVES

 10^{12}

Hz 1 THz wavelengths about the size of a cell

100 MHz

INFRARED

frequency 13
Hz
10 THz

wavelengths just longer than a bacterium

IMERARED

frequency
10 14
100 THz

wavelengths just longer than the size of a virus

MICIDIE

1015 Hz

wavelengths about the size of DNA

IIITRAVIOI FT

10 16 Hz

wavelengths about the size of a protein

Y-P AVC

100 PHz

wavelengths about the size of a water molecule

Y-B AVC

10 18 Hz

wavelengths smaller than an atom

Y_R AVC

10 19
10 EHz

wavelengths shorter than the width of an atomic nucleus

CAMMA RAVS

100 EHz