

FCC MPE Calculation

FCC ID: N26-PPVPPPRO

Frequency: 2402-2480 MHz (79 channels)
Modulation: FHSS (GFSK,8DPSK)
Mid-Channel: 2.441 GHz (channel 39)
Mid-Channel Peak Power, Conducted: 2.09 dBm == 1.62 mW
Antenna Gain: G = 3.0 dBi

Calculation:

Limit = $60/2.441 = \underline{24.58 \text{ mW}}$

$P_{\text{radiated, max}} = P_{\text{conducted, dBm}} + G_{\text{dBi}} = 2.09 \text{ dBm} + 3.0 \text{ dBi} == 5.09 \text{ dBm} = \underline{3.23 \text{ mW}}$

Conclusion:

The emitted power appears to be (far) below the required limit, so PASS.

Note 1: f shall be the mid-band frequency expressed in GHz; the limit calculated with this mid-band frequency applies to all channels. For PTT with body-worn or face-held modes, d is the distance from the device case to a person's body; for modules with antennas inside laptops, d is the distance from the antenna to the person's body.

Note 2: Average Power levels are always equal or below the measured Peak Power levels, which means that calculating the EIRP using the Peak power can be considered as worst case.)