MPE CALCULATION FCC ID: WBV-AP3X

RF Exposure Requirements: 47 CFR §1.1307(b)

RF Radiation Exposure Limits: 47 CFR §1.1310

RF Radiation Exposure Guidelines: FCC OST/OET Bulletin Number 65

EUT Frequency Band: 2412 - 2462 MHz; 5180 - 5825MHz

Limits for General Population/Uncontrolled Exposure in the band of: 1500 - 100,000 MHz

Power Density Limit: 1 mW / cm²

Equation: S = PG / 4π R² or R = \sqrt{PG} / 4π S

Where, S = Power Density

P = Power Input to Antenna

G = Antenna Gain

R = distance to the center of radiated antenna

Prediction distance 20cm

EUT: AP 390

(5.3/5.4G Band): Power = 28.89dBm, Antenna Gain = 5 dBi, Power density = 0.487mW/ cm2

(5.1G Band): Power = 28.86dBm, Antenna Gain = 5 dBi, Power density = 0.484mW/ cm2

(5.8 Band): Power = 16.88dBm, Antenna Gain = 5 dBi, Power density = 0.031mW/ cm2

(2.4GHz Band): Power = 26.25dBm, Antenna Gain = 3.6dBi, Power density =0.192mW/cm2

Total Ratio= $(P_{2.4GHz}/1) + (P_{5GHzDFS}/1) = 0.487 \text{mW/cm2} + 0.192 \text{mW/cm2} = 0.679 \text{ mW/cm2}$

The Above Result had shown that the Device complied with MPE requirement.

Completed By: Nima Molaei

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