

MPE CALCULATION

FCC ID: S9GR510

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: 5 GHz	5180- 5320MHz, 5500-5720MHz, 5745-5825MHz 5210-5290MHz, 5530-5610MHz, 5690-5775MHz
Limits for General Population/Uncontrolled Exposure in the band of:	1500 - 100,000 MHz
Power Density Limit:	1 mW / cm ²

Equation: $S = PG / 4\pi R^2$ or $R = \sqrt{PG / 4\pi S}$

Where, S = Power Density

P = Power Input to Antenna

G = Antenna Gain

R = distance to the center of radiated antenna

Prediction distance 20mm

EUT: ZoneFlex R510 Access Point

(2.4GHz Band): Power = 25.17 dBm, Antenna Gain = 1 dBi, Power density = 0.082mW/ cm²

(5 GHz Band) : Power = 23.97 dBm, Antenna Gain = 3 dBi, Power density = 0.099mW/ cm²

Total Ratio= $(P_{2.4GHz}/1) + (P_{5GHzUNII}/1) = 0.082 \text{ mW/ cm}^2 + 0.099 \text{ mW/ cm}^2 = 0.181 \text{ mW/ cm}^2$

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

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