## MP CALCULATION

## FCC ID: S9GT610

## RF Exposure Requirements:

## RF Radiation Exposure Limits:

RF Radiation Exposure Guidelines:
EUT Frequency Band: 2.4 GHz
EUT Frequency Band: 5 GHz
Limits for General Population/Uncontrolled Exposure in the band of:
Power Density Limit:

Equation:

$$
S=P G / 4 \pi R^{2} \text { or } R=\sqrt{ } P G / 4 \pi S
$$

Where,

$$
\begin{aligned}
& S=\text { Power Density } \\
& P=\text { Power Input to Antenna } \\
& G=\text { Antenna Gain } \\
& R \text { = distance to the center of radiated antenna }
\end{aligned}
$$

47 CFR §1.1307(b)
47 CPR $\$ 1.1310$
FCC OST/OET Bulletin Number 65
$2412-2462 \mathrm{MHz}$
$5180-5320 \mathrm{MHz}, 5500-5720 \mathrm{MHz}, 5745-5825 \mathrm{MHz}$ $5210-5290 \mathrm{MHz}, 5530-5610 \mathrm{MHz}, 5690-5775 \mathrm{MHz}$
$1500-100,000 \mathrm{MHz}$
$1 \mathrm{~mW} / \mathrm{cm}^{2}$

## EUT: ZoneFlex T610 Access Point, model: T610

Prediction distance $=25 \mathrm{~cm}$
(2.4GHz Band): Power $=26.67 \mathrm{dBm}$, Array Gain $=5.5 \mathrm{dBi}$, Power density $=0.210 \mathrm{~mW} / \mathrm{cm}^{2}$
( 5 GHz Band): Power $=26.60 \mathrm{dBm}$, Array Gain $=6.5 \mathrm{dBi}$, Power density $=0.260 \mathrm{~mW} / \mathrm{cm}^{2}$

| Type | CH Freq <br> $(\mathrm{MHz})$ | Conducted <br> Power <br> $(\mathrm{dBm})$ | Antenna <br> Gain <br> $(\mathrm{dBi})$ | Directional <br> Gain $(\mathrm{dBi})$ | Tune-Up <br> Tolerance | Tolerance <br> Max Power <br> $(\mathrm{dBm})$ | Measurement <br> Distance $(\mathrm{cm})$ | Calculated <br> PE <br> $\left(\mathrm{mW} / \mathrm{cm}^{2}\right)$ | PE <br> $\left(\mathrm{mW} / \mathrm{mm}^{2}\right)$ | Pass/ <br> Fail |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2.4 <br> GHz <br> WLAN | 2437 | 26.67 | 2.5 | 5.5 | $\pm 1 \mathrm{~dB}$ | 27.67 | 25 | 0.210 | 1 | Pass |
| 5 GHz <br> WLAN | 5230 | 26.60 | 3.5 | 6.5 | $\pm 1 \mathrm{~dB}$ | 27.60 | 25 | 0.260 | 1 | Pass |

If 2.4 GHz and 5 GHz transmit simultaneously.
Total MPE $=0.210+0.260=0.470 \mathrm{~mW} / \mathrm{cm}^{2}$

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

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