

MPE CALCULATION

FCC ID: S9GC500

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| 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 – 5240 MHz, 5745 - 5825MHz |
| 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 20cm

EUT: C500

(UNII Band): Power = 23.33dBm, Antenna Gain = 1 dBi, Power density = 0.054 mW/ cm²

(2.4GHz Band): Power = 24.67dBm, Antenna Gain = 0dBi , Power density = 0.058 mW/ cm²

Total Ratio= $(P_{2.4GHz}/1) + (P_{5GHzUNII}/1) = 0.054mW/ cm^2 + 0.058mW/ cm^2 = 0.112 mW/ cm^2$

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

Completed By: Ricky Wang

SIEMIC, Inc.

775 Montague Expressway, Milpitas, CA 95035

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