

# MPE CALCULATION

FCC ID: S9GH510

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: 2.4 GHz	2412- 2462MHz, 2422-2452MHz
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 <sup>2</sup>

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

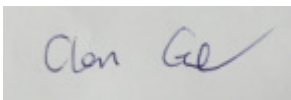
## EUT: H510 Access Point

Type	CH Freq (MHz)	Conducted Power	Antenna Gain (dBi)	Apparent Gain (dBi)	Tune-Up Tolerance	Tolerance Max Power (dBm)	Measurement distance (cm)	Calculated MPE (W/m <sup>2</sup> )	MPE Limit (W/m <sup>2</sup> )
2.4GHz WLAN	2437	24.12	0	0	±1dB	25.12	20	0.647	10
5GHz WLAN	5825	23.43	1	1	±1dB	24.43	20	0.694	10

Total Ratio=  $(P_{2.4GHz}/1) + (P_{5GHzUNII}/1) = 0.647 \text{ mW/ cm}^2 + 0.694 \text{ mW/ cm}^2 = 1.341 \text{ mW/ cm}^2$

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

Completed By: Chen Ge



SIEMIC, Inc.

775 Montague Expressway, Milpitas, CA 95035

Date: 08/01/2016