

MPE CALCULATION

FCC ID: YV8-203214

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:	904.861-924.873 MHz
Limits for General Population/Uncontrolled Exposure in the band of:	1500 - 100,000 MHz
Power Density Limit:	0.62 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: 900MHz Band RF Module (Model: 203214)

Mode	Prediction distance (cm)	Target Power (dBm)	Tune up power tolerance (dB)	Max Tune up Power (mW)	Max Antenna Gain (dBi)	Power density (mW/ cm ²)
900MHz	20	3.99	±0.5	4.49	2.56	0.0010

Maximum MPE is 0.0010 mW/cm², which is less than 0.62 mW/cm²;

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

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