

## MPE CALCULATION

FCC ID: 2AKNFRDR8018

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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:	902-928MHz
Limits for General Population/Uncontrolled Exposure in the band of:	300 - 1500 MHz
Power Density Limit:	0.618 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

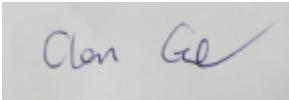
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Prediction distance 90cm

(RFID 902-928MHz): Power = 33.15dBm, Antenna Gain = 12.43dBi, Apparent Gain = 12.43 dBi, Power density = 0.447 mW/cm<sup>2</sup>

Type	CH Freq (MHz)	Conducted Power (dBm)	Tune-Up Tolerance	Maximum Tune-up power (dBm)	Antenna Gain (dBi)	Measurement Distance (cm)	Calculated MPE (mW/cm <sup>2</sup> )	MPE Limit (mW/cm <sup>2</sup> )	Pass/Fail
902-928MHz RFID	903.0	33.86	±1	34.86	12.43	90	0.418	0.618	Pass

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



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