

MPE CALCULATION
FCC ID: BVCUHIDX1801

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: 902-928 MHz
Limits for General Population/Uncontrolled Exposure in the band of: 300 - 1500 MHz
Power Density Limit: f/1500 mW / cm²


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

EUT: IDX-4000 UHF RFID Reader, Model No. : UHIDX1801

Power = 29.81 dBm, Antenna Gain = 6 dBi, Power density = 0.210 mW/ cm²

Type	CH Freq (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Directional Gain (dBi)	Tune-Up Tolerance	Tolerance Max Power (dBm)	Measurement Distance (cm)	Calculated MPE (mW/cm ²)	MPE Limit (mW/cm ²)	Pass/Fail
902-928 MHz	927.25	29.81	6	6	±1dB	30.81	38	0.210	0.618	Pass

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

Completed By: CIPHER 
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