

MPE CALCULATION**FCC ID: UFW-HYDRA****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**Limits for General Population/Uncontrolled Exposure in the band of:** 1500 - 100,000 MHz**Power Density Limit:** 1 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: Radar sensor in W band, Model No.: HYDRAPower = 26.03 dBm, Antenna Gain = 21 dBi, Power density = 0.82 mW/ cm²

Type	CH Freq (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Directional Gain (dBi)	Measurement Distance (cm)	Calculated MPE (mW/cm ²)	MPE Limit (mW/cm ²)	Pass/Fail
Radar	76000	26.03	21	21	70	0.82	1	Pass

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



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