

<u>BLE</u>

Maximum Permissible Exposure

RF Exposure Requirements: §1.1307(b)(1) and §1.1307(b)(2): Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines.

RF Radiation Exposure Limit: §1.1310: As specified in this section, the Maximum Permissible Exposure (MPE) Limit shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in Sec. 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of Sec. 2.1093 of this chapter.

MPE Limit: EUT's operating frequencies @ 2400 - 2483.5 MHz; Limit for Uncontrolled exposure: 1 mW/cm² or 10 W/m²

Equation from page 18 of OET 65, Edition 97-01

 $S = PG / 4\pi R^2$ or $R = \int (PG / 4\pi S)$

where, $S = Power Density (mW/cm^2)$

P = Power Input to antenna (mW)G = Antenna Gain (numeric value)

R = Distance (cm)

Test Results:

| FCC | | | | | | | | | |
|--------------------|--------------------|-------------------|--------------------|----------------------|--|-------------------|--------|------------------|--------|
| Frequency (MHz) | Con. Pwr. (dBm) | Con. Pwr. (mW) | Ant. Gain (dBi) | Ant. Gain numeric | Pwr. Density (mW/cm ²) | Limit (mW/cm²) | Margin | Distance (cm) | Result |
| 2480 | 7.3 | 5.37 | 1.5 | 1.41 | 0.01 | 1.0 | -0.99 | 20 | Pass |
| | | | | | | | | | |
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The safe distance for SWX-UNVRPRO where Power Density is less than the MPE Limit listed above was found to be 20 cm.