RF Exposure Requirements - 1.1307(b)(2); 1.1310

Specification: 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.

EUT meets the requirements of these sections.

MPE CALCULATION

MPE Limit Calculation: EUT's lowest frequency channel @ 824.04 MHz; therefore, f/1500 = Power Density (mW/cm²), where f = frequency (MHz) Limit for Uncontrolled exposure: 0.54936 mW/cm² or 5.4936 W/m²

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

 $S = PG / 4\pi R^2 = 1.26W*2.15dBi / 4*3.14*(0.2m)^2 = 2.709W / 0.5026m^2 = 5.39 W/m^2$

where, $S = Power Density (W/m^2)$

P = Power Input to antenna (1.26 Watts) G = Antenna Gain (2.15 dBi)

R = distance to the center of radiation of the antenna (20 cm or 0.2 m)

The power density (a) $20 \text{cm} = 5.39 \text{ W/m}^2$, therefore EUT meets the Uncontrolled exposure limit.