

RF Exposure MPE Exhibit

An assessment of the RF exposure from the EUT is required under FCC rule 15.247(i) to ensure the public are not exposed to levels of RF energy in excess of the FCC guidelines. The assessment for this EUT is presented below.

The level against which the assessment is made is 1mW/cm², this figure is quoted in table 1 (B) of rule 1.1310 for frequencies above 1.5GHz. The following calculation will use this level and assume a separation distance of at least 20cm between the human body and the EUT.

EIRP from the EUT = -2.4dBm.

Conversion of radiated power to a power density:

$P_r = P_t / 4\pi \cdot r^2$ (W/m^2); P_t in watts; r in metres

$P_r = 0.000575 / (4\pi \times 0.04)$

$= 1.1 \text{ mW}/m^2$

Converting this to cm²;

$= 0.11 \mu W/cm^2$