

US Tech Test Report:  
FCC ID:  
Report Number:  
Issue Date:  
Customer:  
Model:

FCC Part 95  
KE3-3003791  
24-0045  
June 17, 2024  
Radio Systems Corporation  
RFA-635

### Maximum Permissible Exposure to RF (MPE) CFR 1.1310

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 1 mW/cm<sup>2</sup> at a distance, d, of 20 cm from the EUT.

Therefore, for:

#### Highest Gain Dipole Antenna= -25 dBi

Peak Power (Watts) = 0.0000236 (-16.27 dBm)  
Gain of Transmit Antenna = -25 dBi = 0.003, numeric (EUT uses an external Loop antenna)  
d = Distance = 20 cm = 0.2 m

$$\begin{aligned} S &= (PG/ 4\pi d^2) = EIRP/4A = 0.0000236*(0.003)/4*\pi*0.2*0.2 \\ &= 7.08e-08/0.5030 = 1.407e-07W/m^2 \\ &= (W/m^2) (1m^2/W) (0.1 mW/cm^2) \\ &= 1.407e-08 mW/cm^2 \\ &\text{which is } \ll \text{ less than } 1.0 \text{ mW/cm}^2 \end{aligned}$$