

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

FCC Part 95J  
KE3-3003578  
19-0392  
November 26, 2019  
Radio Systems Corp.  
RIG00-16937

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

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:

Peak Power (dBm) = 7.89 dBm

Peak Power (Watts) = 0.006 W

Gain of Transmit Antenna = -19 dB<sub>i</sub> = 0.013, numeric

d = Distance = 20 cm = 0.2 m

$$\begin{aligned} \mathbf{S} &= (PG/4\pi d^2) = \text{EIRP}/4A = 0.006*(0.013)/4*\pi*0.2*0.2 \\ &= 0.00008/0.5030 = 0.00015 \text{ W/m}^2 \\ &= (0.00015 \text{ W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= 0.000015 \text{ mW/cm}^2 \end{aligned}$$

Which is << less than 1 mW/cm<sup>2</sup>