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

FCC Part 95 20-0075 & 20-0090 April 15, 2020 Radio Systems Corporation RAC00-16950 and RAC00-16953 KE3-3003600

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/cm² at a distance, d, of 20 cm from the EUT.

Therefore, for:

Highest Gain Antenna= -15 dBi

```
*Peak Power (Watts) = 4.65 \text{ dBm} = 0.0029 \text{ W}
Gain of Transmit Antenna = -15 \text{ dB}_i = 0.03, numeric (EUT uses an external Loop antenna)
d = Distance = 20 \text{ cm} = 0.2 \text{ m}
```

```
\begin{array}{l} \boldsymbol{S} = (PG/\ 4\pi d^2) = EIRP/4A = 0.0029^*(0.03)/4^*\pi^*0.2^*0.2\\ = 0.000087/0.5030 = 0.00017\ W/m^2\\ = (W/m^2)\ (1m^2/W)\ (0.1\ mW/cm^2)\\ = 0.000017\ mW/cm^2 \end{array}
```

which is << less than 1.0 mW/cm²

(*) Peak Power = 4.65 dBm from Table 4 of the Part 95 Test report.