

#### 4.10    RF Exposure / SAR Statement

RF Controls LLC declares that Model: ITCS-A-104 complies with FCC radiation exposure requirement specified in the FCC rules 2.1091. The ITCS-A-104 has 693.4mW of conducted Peak Output power and 3.899 W EIRP. This equipment is considered as mobile. The Following calculation is the reference data for 20cm distance.

The following information provides the minimum separation distance for the antenna provided with the ITCS-A-104 as calculated from FCC OET Bulletin 65, Appendix A, Table A Limits for Occupational / Controlled Exposure. This calculation is based on the highest EIRP possible from the system, considering maximum power used and antenna gain, and considering a 3.0mW/cm<sup>2</sup> controlled exposure limit. The following formula was used.

$$S = (P \cdot G) / (4 \cdot \pi \cdot r^2)$$

$$P = 693.4\text{mW (28.41dBm)}$$

$$G = 5.62 \text{ (7.5dBi)}$$

$$r = 20\text{cm}$$

from the above:  $S = 0.775\text{mW/cm}^2$