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Client: American Traffic Solutions
Model: SC-300
FCC ID: KXRSC-300
Standards: FCC Part 90
Report #: 2010138

Appendix A: FCC Part 1.1307, 1.1310, 2.1091, 2.1093: RF Exposure – MPE Calculation

Using FCC 1.1310 Table 1B as guidance, the maximum permissible RF exposure for an uncontrolled environment is 1 mW/cm^2 for the frequency used in this device. The worst case power as shown in section 5 of this report is used for the calculation below.

The actual power density for the EUT calculated as shown below.

$$S = (P \times G)/(4 \times \pi \times d^2)$$

> *where*:
> S = power density
> P = transmitter conducted power in (W)
> G = antenna numeric gain
> d = distance to radiation center (m)

Frequency (MHz)	Antenna Gain (dBi)	Conducted Power (W)	Separation Distance (cm)	Power Density (mW/cm^2)
34600	3	0.018	20	0.007

NOTICE:

Radiation Exposure Statement

The calculated power density is well below the allowed limit at 20 cm. Nonetheless, the recommended separation distance for this equipment is 20 cm.