
INTERTEK TESTING SERVICES

EXHIBIT 15

RF EXPOSURE

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15.0 **RF Exposure**

The manufacturer does not specify or sale any antenna with the radio identified in this report. The manufacturer applies for the General Population/Uncontrolled Environment.

The maximum distance, from the antenna at which MPE is met or exceeded, is calculated from the equation relating field strength E in V/m, transmit power P in Watts, transmit antenna numeric gain G, and separation distance in meters:

$$E(V / m) = \frac{\sqrt{30 \times P \times G}}{d}$$

$$\text{Power density: } P_d(mW / cm^2) = \frac{E^2}{3770}$$

The limit for general population/uncontrolled exposure applicable to Bystanders (at 27.405 MHz) = $180/(f(\text{MHz}))^2$ in mW/ cm²

MPE CALCULATION

1. Antenna: Typical CB antenna available on the market and commonly chosen by end-users for vehicle application. Antenna gain is -4.5 dBi as compared to an ideal ½-wave dipole (0 dBd = 2.15 dBi)
2. Frequency: 27.405 MHz. Limit for General Population/Uncontrolled Environment (Bystanders): 0.24 mW/ cm²
3. Separation distance:

Conducted Power delivered to antenna (Watt)	Largest (worst-case) Separation Distance (cm)
3.7	27
1.85 (50%)	19

Note - Source-base time-averaging duty factor = 50%

Instructions will be placed in the user manual instructing installers and users to maintain the MPE distances during operation of the EUT.