

RF EXPOSURE EXHIBIT

Standard Applicable

According to FCC KDB 447498 D01 V06 clause 6, the power thresholds and operating conditions in Appendix A are used to determine SAR test requirements for PTT radios required to comply with the general population exposure limit. When the occupational exposure limit applies, these power thresholds are increased by a factor of five (5) to determine the test requirements. SAR is required for PTT devices with maximum output power greater than these thresholds.

Evaluation:

RF Exposure Conditions:

The two-way radio device is intended for use in the Held to face exposure condition and the general population RF exposure environment, and always keep the antenna at least 2.5 cm (1 inch) away from the body.

Transmission Mode:

The two-way radio device utilizes a FM modulation with Push-to talk mode.

Duty Cycle:

The two-way radio device utilizes a FM modulation with a duty cycle of 50% when actual operating duty factor is $\leq 50\%$.

For in front of the face:

Tx frequency range: 462.6625MHz

Antenna-to-tissue separation: ≥ 2.5 cm

Maximum Output Power: 17.76dBm (59.70mW)

Maximum Antenna Gain: 0 dBi

Maximum Duty Factor: 50%

Limit: $112\text{mW} \times 2 = 224\text{mW}$

Source-based time-averaged conducted output power is $59.70\text{ mW} < 224\text{ mW}$

For body-worn:

Tx frequency range: 462.6625MHz

Antenna-to-tissue separation: < 1 cm

Maximum Output Power: 17.76dBm (59.70mW)

Maximum Antenna Gain: 0 dBi

Maximum Duty Factor: 50%

Limit: $45\text{mW} \times 2 = 90\text{mW}$

Source-based time-averaged conducted output power is $59.70\text{ mW} < 90\text{ mW}$