Client: Harris Corporation Model: M7300,378-430MHz,50W IDs: OWDTR-0061-E/3636B-0061 Standards: FCC Part 90/IC RSS-119 Report #: 2010129

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

Please refer to the MPE Report that follows.



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Mobile Radio MPE Evaluation Report

FCC Rule Part: Device Classification: Device Type: FCC ID: Model Name: Modulation: Tx Frequency Range: Max. RF Conducted Power: Power Supply: Antenna Type: Antenna Gain: Minimum Antenna Distance: 47 CFR §90; §2.1091; §1.1310
Licensed Non-Broadcast Station Transmitter (TNB)
Mobile UHF Transceiver with Vehicle Rooftop Antenna
OWDTR-0061-E
M7300 UHF-L mobile radio
FM
378 - 430 MHz (FCC: 406.1 - 454 MHz)
50 W (nominal/rated, times 1.2; § 90.205(r))
13.6 VDC
AN-225003-001 and -004.
2.15 dbi; 0 db transmission line loss.
54 cm Limits for Occupational/Controlled Exposure.
120 cm Limits for General Population/Uncontrolled Exposure.

Calculation

 $S = \frac{PG}{4\pi R^2}$ therefore: $R = \sqrt{\frac{PG}{4\pi S}}$

Where: S – power density (mW/cm²; as defined in 47 CFR § 1.1310), P – power input to antenna at 50% duty cycle (in mW), G – power gain of the antenna relative to isotropic (numeric value, not db), R – distance to center of antenna (result in cm).

S = 1.35/.27 (Controlled(f/300)/Uncontrolled(f/1500)) at Tx frequency 406.1 MHz (frequency when applicable).

Calculated controlled distance: 54 cm

Calculated uncontrolled distance: 120 cm

Dary S. Topomitch

Daryl Popowitch Regulatory Manager

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