



Test Number: 206-11R1

6. Measurement Data (continued)

6.9. Public Exposure to Radio Frequency Energy Levels (15.247(i) (1.1307 (b)(1)) RSS-GEN 5.5, RSS 102

6.9.1. Note: The following equation is used to determine the output power from the measured worst case field strength:

$$P = \frac{(E \times d)^2}{(30 \times G)}$$

- P = the power in Watts.
- E = the measured maximum field in V/m
- G = the numeric gain of the transmitting antenna over an isotropic radiator.
- d = the distance in meters of the field strength measurement.

| Channel | Frequency | Peak Field Strength | Distance | Antenna Gain ¹ | Measured Output Power |
|---------|-----------|---------------------------|----------|------------------------------|-----------------------------|
| | (GHz) | (dBµV/m) | (m) | (dBi) | (mW) |
| N/A | 24.24 | 106.50 | 3.0 | 12.5 | 0.7535659 |

| Channel | MPE Distance (cm) | DUT Output Power | DUT Antenna Gain (dBi) (mW/cm2) (W/m2) | Power Density | | Limit (mW/cm2) | Result |
|---------|-------------------------|------------------------|---|---------------|-----------|-------------------|-----------|
| | () | (dBm) | | (mW/cm2) | (W/m2) | | |
| | (1) | (2) | (3) | (4) | | (5) | |
| N/A | 20.0 | -1.23 | 12.5 | 0.0026659 | 0.0266595 | 1 | Compliant |

$$PD = \frac{OP + AG}{(4 \times \pi \times d^2)}$$

PD = Power Density (mW/cm2)

OP = DUT Output Power (dBm)

AG = DUT Antenna Gain (dBi)

d = MPE Distance (cm)

- 1. Reference CFR 2.1093(b): For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.
- 2. Sections 6.2 of this test report.
- 3. Antenna gain data provided by the client.
- 4. Power density is calculated from field strength measurement and antenna gain.
- 5. Reference CFR 1.1310, Table 1: Limits for Maximum Permissible Exposure (MPE), Section (B): Limits for General Population/Uncontrolled Exposure.

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