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## 1.0 Maximum Permissible Exposure Evaluation (Supplements the test report.)

The measured power is considered for the intended use of the device and resulting RF exposure to the user.

### 1.2 Criteria

| Section Reference | Date |
|---|---|
| 447498 D01 General RF Exposure Guidance v06 // RSS-102 Issue 5 | 13 Feb 2019 |

### 1.3 Procedure

Using measurement of peak power and considering the intended application, determine the permissible exposure level, applicability of exclusion, or whether additional exposure tests (SAR) are indicated. When applicable justify conclusion for selected exposure level and separation distance.

### 1.4 Power to Exposure Calculation

This device is operated typically outdoors and facing vehicle traffic lanes. The operating band is 24000-24250 MHz. Power is determined from the measured field strength at 1 meter and used to determine EIRP. The uncontrolled public separation distance is 20 cm.

**Table 1.4.1 Power Calculation**

| Measured Power Field Strength dBµV/m* | At Distance | EIRP Power dBm | Source Duty Cycle Factor dB | Calculated Average Power dBm | Calculated EIRP mW |
|---|---|---|---|---|---|
| 107.1 | 1 m | 2.4 | 0 | 2.4 | 1.7 |

*This is the peak measurement.

### 1.5 SAR Exemption Calculation – FCC

Field density is determined at 20 cm as:

$S = EIRP / (4 \pi 20^2)$ Ref. FCC Bulletin OET-65 Equation (4)
$S = 1.7$ mW / 5026.55 $cm^2$
$S = 0.00034$ $mW/cm^2$

Therefore, the device meets the applicable FCC SAR exemption requirements.

### 1.6 SAR Exemption Calculation – IC

This device meets the **Table 4 Field Strength Limits for Devices Used by the General Public (Uncontrolled Environment), row 15000-150000 MHz,** limit field density of 10 $W/m^2$ criteria (or restated as 1 $mW/m^2$) in RSS-102.

Signed:

Eric Lifsey

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