



Test Number: 259-15 Issue Date: 06/12/2015

6. Measurement Data (continued)

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

6.8.1. 15.247(i) (1.1307 (b)(1) Requirements

Requirement: Portable devices are subject to radio frequency radiation exposure

requirements.

For a 1-g SAR, the test exclusion result must be \leq 3.0.

Test Notes: The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6

GHz at test separation distances ≤ 50 mm are determined by the

following formula:

SAR Test Exclusion =
$$\frac{P_{MAX}}{d_{MIN}} \chi \sqrt{f_{(GHz)}}$$
 (1)

P_{MAX} mW Maximum power of channel, including tune-up tolerance

d_{MIN} mm Minimum test separation distance, mm (≤ 50 mm)

 $f_{(\text{GHz})} - \text{GHz} - f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz (>100 MHz and <6 GHz)

 FCC OET 447498 - Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

The following equation was used to determine the peak output power from the measured field strength:

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

P = the power in Watts.

E = the measured maximum field in V/m. From section 6.3 of this test report.

G = the numeric gain of the transmitting antenna over an isotropic radiator.

d = the distance in meters of the field strength measurement.

Result: The device under test meets the exclusion requirement detailed in FCC OET 447498.

¹ Calculated from the above equation.





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6. Measurement Data (continued)

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

6.8.2. RSS-102 Issue 5 Requirements

Requirement: SAR evaluation is required if the separation distance between the user

and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table 1. Portable devices are subject to radio frequency radiation exposure requirements.

Test Notes: The limit was taken from Table 1 of RSS-102 Issue 5.

	Frequency	Separation Distance	Maximum Power	RSS-102 Limit	Result
ı	(MHz)	(mm)	(mW)	(mW)	
ſ	433.93	≤5	0.04	54.04	Compliant