7. Measurement Data (continued)

7.12. Public Exposure to Radio Frequency Energy Levels (15.247(i) (1.1307 (b)(1)) RSS-GEN, ISSUE 4 5.5, RSS 102)

7.12.1. 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 ≤ 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:

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

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

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

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

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

Conclusion: Compliant - The device under test meets the exclusion requirement detailed in FCC OET 447498.

Channel:		0	19	39
Input: P_{MAX}[1]	(mW)	0.07	0.10	0.11
d_{MIN}	(mm)	5.00	5.00	5.00
$f_{(GHz)}$		2.402	2.440	2.480
Test Exclusion:		**0.02**	**0.03**	**0.04**
Limit Exemption:		**3.00**	**3.00**	**3.00**

[1] Taken from column 5 of the table in Section 7.4 of this test report.

7.12.2. 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 (MHz)	Separation Distance (mm)	Maximum Power (mW)	RSS-102 Limit (mW)	Result
2402	≤5	0.07	4.26	Compliant
2440	≤5	0.10	4.05	Compliant
2480	≤5	0.11	3.94	Compliant