



## 6. Measurement Data (continued)

## 6.12. Public Exposure to Radio Frequency Energy Levels (1.1307 (b)(1))

## 6.12.1. SAR Test Exclusion Calculation

Requirement: Portable devices as defined in § 2.1093 of this chapter operating

under Part 15 are subject to radio frequency radiation exposure requirements as specified in §§ 1.1307(b) and 2.1093 of this chapter.

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 = 
$$\frac{P_{MAX}}{d_{MIN}} \times \sqrt{f_{(GHz)}}$$
 (1)

P<sub>MAX</sub> mW Maximum power of channel, including tune-up tolerance

d<sub>MIN</sub> 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)

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

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

Channel:		3, 16M	3, 64M	
Input:	$P_{MAX}$	0.7196	0.2400	mW
	$d_{MIN}$	5.000	5.000	mm
	$f_{(GHz)}$	4.492	4.488	GHz
Test Exclusion:		0.305	0.102	-
Limit Exemption:		3.000	3.000	

<sup>&</sup>lt;sup>1</sup> Taken from the peak data in Section 6.5 of this test report (converted to mW).

Notes:

The device does not exceed the test limit exemption and therefore a routine SAR Evaluation is not required.

The UWB and BLE radios do not transmit simultaneously.