

6. Measurement Data (continued)

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

6.6.1. 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.

Test Notes: For frequencies below 100 MHz, the following may be considered for SAR test exclusion.

For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz is multiplied by $(1 + \log(100 / f_{\text{(MHz)}}))$.

For test separation distances ≤ 50 mm, the power threshold determined by the above equation is multiplied by $\frac{1}{2}$.

Appendix C SAR Test Exclusion @ 100 MHz = 237 mW

SAR Test Exclusion 50mm = $237 * (1 + \log(100 / 6.78)) = 514$ mW

SAR Test Exclusion ≤ 50 mm = $514 * 0.5 = 257$ mW

(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.

		6.78 MHz	
Input:	P_{MAX}	0.00019	mW
Limit Exemption:		257	mW

¹ Taken from the peak data in Section 6.3 of this test report (converted to mW).

Note: The EUT does not support simultaneous transmission in order to conserve battery life.

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