

5. RF EXPOSURE EVALUATION

5.1 SAR-Based Exemption

5.1.1 Applicable Standard

FCC §15.247 (i)

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See §1.1307(b)(1) of this chapter.

5.1.2 Procedure

According to 447498 D04 Interim General RF Exposure Guidance v01, clause 2.1.3 1- SAR-Based Exemption:

A more comprehensive exemption, considering a variable power threshold that depends on both the *separation distance* and power, is provided in §1.1307(b)(3)(ii)(B). This exemption is applicable to the frequency range between 300 MHz and 6 GHz, with *test separation distances* between 0.5 cm and 40 cm, and for all RF sources in fixed, mobile, and portable device exposure conditions.

Accordingly, a RF source is considered an *RF exempt device* if its available maximum time-averaged (matched conducted) power or its effective radiated power (ERP), whichever is greater, are below a specified threshold. This exemption threshold was derived based on general population 1-g SAR requirements and is detailed in Appendix C.

5.1.3 Measurement Result

Radio	Frequency (MHz)	Distance (mm)	P _{th} (mW)	Maximum Conducted Power including Tune-up Tolerance (dBm)	Antenna Gain (dBi)	The Greater of Conducted Power or ERP		SAR-Based Exemption
						dBm	mW	
BLE	2402-2480	5	2.72	3	0.20	3	2.00	Compliant

Note:

The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.

Result: Compliant. RF Exposure is exemption.