

8. RF Exposure Report

8.1. Limit

According to §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 KDB 447498 D01 General RF Exposure Guidance V05.

According to section 2.5.1 of RSS-102, above 2.2 GHz and up to 3 GHz inclusively, and with output power (i.e. the higher of the conducted or radiated (e.i.r.p.) source-based, time-averaged output power) that is less than or equal to 20 mW for general public use and 100 mW for controlled use, SAR evaluation is not required.

8.2. EUT Specification

Maximum measured transmitter power: Bluetooth V2.1 with EDR

Peak Conducted Power (dBm)	Max Antenna Gain (dBi)	EIRP (mw)	SAR Limitation
-0.62	0	0.87	10mW

Maximum measured transmitter power: Bluetooth V4.0 Low Energy

Peak Conducted Power (dBm)	Max Antenna Gain (dBi)	EIRP (mw)	SAR Limitation
1.21	0	1.32	10mW

Maximum measured transmitter power: 802.11b

Peak Conducted Power (dBm)	Max Antenna Gain (dBi)	EIRP (mw)	SAR Limitation
9.74	0	9.42	10mW

Maximum measured transmitter power: 802.11g

Peak Conducted Power (dBm)	Max Antenna Gain (dBi)	EIRP (mw)	SAR Limitation
8.83	0	7.64	10mW

Maximum measured transmitter power: 802.11n HT20 Mode

Peak Conducted Power (dBm)	Max Antenna Gain (dBi)	EIRP (mw)	SAR Limitation
7.71	0	5.90	10mW

8.3. Test Results

Threshold at which no SAR required

Maximum Tx Output power is 9.42mw EIRP.

Conclusion: No SAR is required.