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Standard : CFR 47 FCC Rules and Regulations Part 15

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7.10 SAR Test Exclusion

7.10.1 Maximum Output Power (Average)

D 1	Mode	Data Rate	Ch#	Frequency (MHz)	Average Power (dBm)	
Band					Measured	Spec. Max.
	BLE	1 Mbps	0	2402	3.39	4.0
			19	2440	3.44	
			39	2480	3.39	
2.4.011	non-BLE	1 Mbps	0	2402	3.39	4.0
2.4 GHz (DTS)			39	2441	3.44	
			78	2480	3.40	
		2 Mbps	0	2402	3.38	
			19	2440	3.42	4.0
			39	2480	3.38	

Note(s):

Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units. (BLE GFSK and non-BLE 1Mpbs/2Mbps GFSK configurations are considered separately.)

- When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.
- When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.15 configurations with the same maximum output power.

7.10.2 Standalone SAR Test Exclusion Considerations (KDB 447498 D01)

The 1 g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation $distances \le 50$ mm are determined by;

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] $\cdot [\sqrt{f_{(GHz)}}] \le 3.0$, where

- f (GHz) is the RF channel transmit frequency in GHz.
- Power and distance are rounded to the nearest mW and mm before calculation.
- The result is rounded to one decimal place for comparison.
- When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied.

SAR exclusion calculations for antenna ≤ 50 mm from the user

D 1	Freq.	Max. Power		Distance	(D) 1 . 1 . 1	Test
Band	(MHz)	(dBm)	(mW)	(mm)	Threshold	Exclusion
BLE	2440	4.0	2.5	< 5	0.9	YES

The minimum user separation distance was assumed to be 0 mm for the purpose of the SAR exclusion calculations.

Conclusion:

The device qualifies for the Standalone SAR test exclusion because the computed value is < 3.