

SAR EXCLUSION CALCULATION
FCC ID: I28-ZBRZQ3BT / IC ID: 3798B- ZBRZQ3BT

RF Exposure Requirements: 47 CFR §1.1307(b)
RF Radiation Exposure Limits: 47 CFR §1.1310
RF Radiation Exposure Guidelines: FCC OST/OET Bulletin Number 65
EUT Frequency Band: 2402-2480 MHz

Equation:

According to the procedure in KDB447498 (v05r02) section 4.3, SAR testing is excluded if the following criteria is met.

$(P/d) * \sqrt{f} \leq 3.0$ for 1-g SAR

Where

P is the time averaged maximum conducted power in mW

d minimum separation distance in mm

f is the frequency in GHz

The distance between the antenna and human body is 5mm. the calculation was based on the distance of 5mm.

Type	CH Freq (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Tune-up Tolerance	Max Tune-up power (dBm)	Measurement Distance (mm)
BLE	2402	4.72	1.69	±1	5.72	5
BT-EDR	2402	7.40	1.69	±1	8.40	5

For BLE: $(P/d) * \sqrt{f} = 1.16 < 3$ for 1g SAR

For BT-BDR/EDR: $(P/d) * \sqrt{f} = 2.14 < 3$ for 1g SAR

Therefore, EUT is not require SAR Evaluation.



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