

SAR EXCLUSION CALCULATION
FCC ID: MG3-R32040/ IC ID: 2575A-R32040

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: 2402MHz-2480MHz

Equation:

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

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

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.

The highest power is 9.258 dBm, which is 8.429 mW.

Type	CH Freq (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Tune-up Tolerance	Max Tune-up power (dBm)	Measurement Distance (mm)
Bluetooth LE	2402	8.258	0	±1dB	9.258	5

For MICS : $(P/d) * \sqrt{f} = 2.024 < 3$ for 1g SAR

Therefore, EUT is not require SAR Evaluation.

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