

SAR EXCLUSION CALCULATION
FCC ID: 2AEANWGO/ IC: 20091-WGO

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 KDB 447498 D01 (v06) section 4.3.1(a), SAR testing is excluded if the following criteria is met.

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

Where

P = max. power of channel, including tune-up tolerance, mW

d = min. test separation distance, mm

f = RF channel transmit frequency in GHz

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

The highest power is 6.42 dBm, which is 4.3853 mW.

Type	CH Freq (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Directional Gain (dBi)	Tune-Up Tolerance	Tolerance Max Power (dBm)	Measurement Distance (mm)
2.4GHz (Antenna 1)	2402	5.42	3.5	3.5	±1dB	6.42	5
2.4GHz (Antenna 2)	2402	4.89	3.0	3.0	±1dB	5.89	5

Calculation: $(P/d) \cdot \sqrt{f} = (4.3853/5) \cdot \sqrt{2.402} = 1.36 < 3$ for 1g SAR

Therefore, EUT does not require SAR Evaluation.

Gary Chou

Completed By: Gary Chou

SIEMIC, Inc

775 Montague Expressway, Milpitas, CA 95035

Phone: (408) 526-1188

Date: 4/ 10/ 2019