

SAR EXCLUSION CALCULATION

FCC ID: I28MD-FXLAN11AC / IC ID: 3798B-FXLAN11AC

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.

$(P/d) * \sqrt{f} \leq 3.0$ 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 5.69 dBm = 3.70 mW < 4mW (IC SAR exempt limit)

Type	CH Freq (MHz)	Conducted Power (dBm)	Tune-up Tolerance	Max Tune-up power (dBm)	Measurement Distance (mm)
Bluetooth BDR	2402	4.69	±1	5.69	5
Bluetooth EDR	2402	4.40	±1	5.40	5

For BT : $(P/d) * \sqrt{f} = 1.146 < 3$ for 1g SAR

Therefore, EUT is not require SAR Evaluation.



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Output Power measurement results

Type	Freq (MHz)	Test mode	CH	Conducted Power (dBm)	Limit (dBm)	Result
Output Power	2402	Bluetooth BDR	Low	4.69	≤30	Pass
	2441	Bluetooth BDR	Mid	4.65	≤30	Pass
	2480	Bluetooth BDR	High	4.37	≤30	Pass
	2402	Bluetooth EDR	Low	4.40	≤30	Pass
	2441	Bluetooth EDR	Mid	4.35	≤30	Pass
	2480	Bluetooth EDR	High	4.12	≤30	Pass

Peak Output Power Test Plot (Bluetooth BDR/EDR)

