

MPE CALCULATION
FCC ID: N6C-SDMAN2

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: 2.4GHz	2412-2462 MHz
EUT Frequency Band: 5 GHz	5180- 5320MHz, 5500-5700MHz, 5745-5825MHz 5190- 5230MHz, 5270-5310MHz, 5510-5670MHz 5755- 5795MHz
Limits for General Population/Uncontrolled Exposure in the band of:	1500 - 100,000 MHz
Power Density Limit:	1 mW / cm ²

Equation: $S = PG / 4\pi R^2$ or $R = \sqrt{PG / 4\pi S}$

Where, S = Power Density
P = Power Input to Antenna
G = Antenna Gain
R = distance to the center of radiated antenna

EUT: 2x2 802.11abgn SDIO Module, Model No. : SX-SDMAN2

(2.4GHz Band): Power = 23.98 dBm, Antenna Gain = 2.5 dBi, Power density = 0.0713 mW/ cm²
(5 GHz Band) : Power = 15.22 dBm, Antenna Gain = 3.5 dBi, Power density = 0.0119 mW/ cm²

Type	CH Freq (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Tune-Up Tolerance	Tolerance Max Power (dBm)	Measurement Distance (cm)	Calculated MPE (mW/cm ²)	MPE Limit (mW/cm ²)	Pass/Fail
2.4 GHz WLAN	2412	23.98	2.5	±1dB	24.98	25	0.0713	1	Pass
5 GHz WLAN	5500	15.22	3.5	±1dB	16.22	25	0.0119	1	Pass

The Above Result had shown that the Device complied with MPE requirement.

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