

MPE CALCULATION

FCC ID: N6C-SDPAC

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: 2.4 GHz	2402- 2480MHz
EUT Frequency Band: 2.4 GHz	2412- 2462MHz, 2422-2452MHz
EUT Frequency Band: 5 GHz	5180- 5320MHz, 5500-5720MHz, 5745-5825MHz 5210-5290MHz, 5530-5610MHz, 5690-5775MHz
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

Prediction distance 20cm

802.11a/b/g/n/ac + BT4.1 module

Type	CH Freq (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Apparent Gain (dBi)	Measurement distance (cm)	Calculated MPE (W/m ²)	MPE Limit (W/m ²)	Pass / Fail
BT	2402	9.24	3.25	3.25	20	0.035	10	Pass
BLE	2441	0.83	3.25	3.25	20	0.005	10	Pass
2.4GHz WLAN	2462	17.83	3.25	3.25	20	0.255	10	Pass
5GHz WLAN	5795	15.09	5	5	20	0.203	10	Pass

Note: Different radio do not transmit simultaneously.

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

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