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:	2412-2462MHz/5180-5825MHz
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

(WLan 2.4GHz): Power = 32.93 mW, Antenna Gain = 2 dBi (2.4GHz), Power density = 0.01310 mW/cm^2

(WLan 5GHz): Power = 28.27 mW, Antenna Gain = 2.5 dBi (2.4GHz), Power density = 0.01406 mW/cm^2

Mode	Prediction Distance (cm)	Target power (mW)	Max. Antenna Gain (dBi)	Power Density (mW/ cm^2)
WLAN 2.4GHz	20	32.93	2.00	0.01310
WLAN 5GHz	20	28.27	2.50	0.01406

Note: 5GHz radio does not transmit simultaneously. Even taking into account the tolerance, this device can be satisfied with the limits.

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

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Date: March 16, 2016