FCC MPE Evaluation (FCC ID: BYM1408)

RF Exposure Requirements:		47 CFR §1.1307(b)		
RF Radiation Exposure Limits:		47 CFR §1.1310		
RF Radiation Exp	osure Guidelines:	FCC OST/OET Bulletin Number 65		
EUT Frequency Band:		2402-2480MHz		
Limits for General Population/Uncontrolled Exposure in the band of:		300 - 1500 MHz,		
Power Density Limit:		f/1500 mW/cm2		
Limits for Genera	l Population/Uncontrolled Exposure in the band of:	1500 - 100,000 MHz		
Power Density Li	mit:	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			

Prediction distance 20 cm

EUT: Base Transceiver

Radio	Frequency (MHz)	Max Conducted Output Power (dBm)	Antenna Gain (dBi)	Separation distance (cm)	Power Density (mW/ cm²)	MPE Limit (mW/ cm²)
BLE	2402-2480	7.074	2.5	20	0.0018	1
5GHz	5180-5240	24.04	4	20	0.1267	1
5GHz	5260-5320	22.35	4	20	0.0858	1
5GHz	5500-5720	21.98	4	20	0.0788	1
5GHz	5745-5825	24.00	4	20	0.1255	1

The BLE is able to transmit simultaneously with WLAN.

The ratio = 0.0018/1 + 0.1267/1 = 0.1285 < 1.0

The above results show that the device complies with the MPE requirement.

R = distance to the center of radiated antenna

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