



## Maximum Permissible Exposure Report

### 1. Product Information

EUT	: Wicom Controller RGBCW+Microphone
Test Model	: SC2QCEDQ21WR
Additional Model No.	: Please see the next page
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Power Supply	: Input: DC 5-24V, 0.5A For Adapter Input: 100-240V~, 50/60Hz, 0.75A max For Adapter Output: 12.0V=2.0A, 24.0W
Hardware Version	: V1.0
Software Version	: 1.0.60

#### Bluetooth

Frequency Range	: 2402MHz ~ 2480MHz
Channel Number	: 40 channels for Bluetooth V4.2 (DTS)
Channel Spacing	: 2MHz for Bluetooth V4.2 (DTS)
Modulation Type	: GFSK for Bluetooth V4.2 (DTS)
Bluetooth Version	: V4.2
Antenna Description	: Internal Antenna, 0dBi(Max.)

#### 2.4G WLAN

Frequency Range	: 2412MHz~2462MHz
Channel Spacing	: 5MHz
Channel Number	: 11 Channels for 20MHz bandwidth (2412~2462MHz) 7 Channels for 40MHz bandwidth (2422~2452MHz)
Modulation Type	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: Internal Antenna, 0dBi(Max.)





Model list:

MKPX-WW2M24	SC1YXEDC21NW	SC2QC2DQ21WR	SC2HED2408NW	SC0SFCDN44NW
MKPX-HH2M24	SC1YXFDC213W	SC2QCCDQ21WR	SC2HEE2408NW	SC0SFDDN44NW
MKPX-WW3M24	SC1YXFDC214W	SC2QCDDQ21WR	SC2HEF2408NW	SC0SFEDN44NW
MKPX-HH3M24	SC1YX2DC41NW	SC2QCEDQ21WR	SC2HE14804NW	SC0SFFDN44NW
MKPX-WW2M36	SC1YXCDC41NW	SC2QCFDQ21W3	SC2HE24804NW	SC1GE1G2202H
MKPX-HH2M36	SC1YXDDC41NW	SC2QCFDQ21W4	SC2HEC4804NW	SC1GE2G2202H
MKPX-WW3M36	SC1YXEDC41NW	SC2FD2UQ30NB	SC2HED4804NW	SC1GELG2202H
MKPX-HH3M36	SC1YXFDC413W	SC2FDCUQ30NB	SC2HEE4804NW	SC1GE3G2202H
MKPX-WW2M48	SC1YXFDC414W	SC2FDDUQ30NB	SC2HEF4804NW	SC1GE4G2202H
MKPX-HH2M48	SC1YX2DC42NW	SC2FDEUQ30NB	SC2HE11232NW	SC1GE5G2202H
MKPX-WW3M48	SC1YXCDC42NW	SC2FDFUQ30NB	SC2HE21232NW	SC1GEFG2202H
MKPX-HH3M48	SC1YXDDC42NW	SC2FD2UQ30RB	SC2HEC1232NW	SC1GE1G2205H
MKPX-WW2M80	SC1YXEDC42NW	SC2FDCUQ30RB	SC2HED1232NW	SC1GE2G2205H
MKPX-HH2M80	SC1YXFDC423W	SC2FDDUQ30RB	SC2HEE1232NW	SC1GELG2205H
MKPX-WW3M80	SC1YXFDC424W	SC2FDEUQ30RB	SC2HEF1232NW	SC1GE3G2205H
MKPX-HH3M80	SC1TW2U521HB	SC2FDFUQ30RB	SC2HE12416NW	SC1GE4G2205H
MKPY-WW2M1018	SC1TWCU521HB	SC1XX1UQ21RW	SC2HE22416NW	SC1GE5G2205H
MKPY-WW3M1018	SC1TWDU521HB	SC1XX2UQ21RW	SC2HEC2416NW	SC1GEFG2205H
MKPY-WW2M1036	SC1TWEU521HB	SC1XX3UQ21RW	SC2HED2416NW	SC1GE1G2208H
MKPY-WW3M1036	SC1TWFU5213B	SC1XX4UQ21RW	SC2HEE2416NW	SC1GE2G2208H
MKPY-WW2M1218	SC1TWFU5214B	SC1XX5UQ21RW	SC2HEF2416NW	SC1GELG2208H
MKPY-WW3M1218	SC1TW2U541HB	SC1XX6UQ21R3	SC2HE14808NW	SC1GE3G2208H
MKPY-WW2M1236	SC1TWCU541HB	SC1XX6UQ21R4	SC2HE24808NW	SC1GE4G2208H
MKPY-WW3M1236	SC1TWDU541HB	SC1XX1DQ21RW	SC2HEC4808NW	SC1GE5G2208H
MKPY-WW2M1518	SC1TWEU541HB	SC1XX2DQ21RW	SC2HED4808NW	SC1GEFG2208H
MKPY-WW3M1518	SC1TWFU5413B	SC1XX3DQ21RW	SC2HEE4808NW	SC1ZZ1UQ21H3
MKPY-WW2M1536	SC1TWFU5414B	SC1XX4DQ21RW	SC2HEF4808NW	SC1ZZ2UQ21H3
MKPY-WW3M1536	SC1TW2U542HB	SC1XX5DQ21RW	SC1XMAUQ21RB	SC1ZZ3UQ21H3
MKPY-WW2M1818	SC1TWCU542HB	SC1XX6DQ21R3	SC1XMBUQ21RB	SC1ZZCUQ21H3
MKPY-WW3M1818	SC1TWDU542HB	SC1XX6DQ21R4	SC1XMCUQ21RB	SC1ZZ4UQ21H3
MKPY-WW2M1836	SC1TWEU542HB	SC1XY1UQ21RB	SC1XMDUQ21RB	SC1ZZDUQ21H3
MKPY-WW3M1836	SC1TWFU5423B	SC1XY2UQ21RB	SC1XMEUQ21RB	SC1ZZ5UQ21H3
MKPY-WW2M2518	SC1TWFU5424B	SC1XY3UQ21RB	SC1XMFUQ21R3	SC1ZZEUQ21H3
MKPY-WW3M2518	SC1TW2DC21HB	SC1XY4UQ21RB	SC1XMFUQ21R4	SC1ZZFUQ21H3
MKPY-WW2M2536	SC1TWCDC21HB	SC1XY5UQ21RB	SC1XMADQ21RB	SC1ZZFUQ21H4
MKPY-WW3M2536	SC1TWDDC21HB	SC1XY6UQ21R3	SC1XMBDQ21RB	SC1ZZ1DQ21H3
MKPY-WW2M3518	SC1TWEHC21HB	SC1XY6UQ21R4	SC1XMCDQ21RB	SC1ZZ2DQ21H3
MKPY-WW3M3518	SC1TWFDC213B	SC1XY1DQ21RB	SC1XMDDQ21RB	SC1ZZ3DQ21H3
MKPY-WW2M3536	SC1TWFDC214B	SC1XY2DQ21RB	SC1XMEDQ21RB	SC1ZZCDQ21H3
MKPY-WW3M3536	SC1TW2DC41HB	SC1XY3DQ21RB	SC1XMFDQ21R3	SC1ZZ4DQ21H3
SC1WQFU521NB	SC1TWCDC41HB	SC1XY4DQ21RB	SC1XMFDQ21R4	SC1ZZDDQ21H3
SC1WQFDC21NB	SC1TWDDC41HB	SC1XY5DQ21RB	SC1XNAUQ21RB	SC1ZZ5DQ21H3
SC1WQFU521SK	SC1TWEHC41HB	SC1XY6DQ21R3	SC1XNBUQ21RB	SC1ZZEDQ21H3





SC1WQFDC21SK	SC1TWFD413B	SC1XY6DQ21R4	SC1XNCUQ21RB	SC1ZZFDQ21H3
SC1WU1U521NB	SC1TWFD414B	SC2HE11202NW	SC1XNDUQ21RB	SC1ZZFDQ21H4
SC1WU2U521NB	SC1TW2DC42HB	SC2HE21202NW	SC1XNEUQ21RB	SC2GZ1UQ21H3
SC1WU3U521NB	SC1TWDC42HB	SC2HEC1202NW	SC1XNFUQ21R3	SC2GZ2UQ21H3
SC1WUCU521NB	SC1TWDDC42HB	SC2HED1202NW	SC1XNFUQ21R4	SC2GZ3UQ21H3
SC1WU4U521NB	SC1TWEDC42HB	SC2HEE1202NW	SC1XNADQ21RB	SC2GZCUQ21H3
SC1WUDU521NB	SC1TWFD423B	SC2HEF1202NW	SC1XNBDQ21RB	SC2GZ4UQ21H3
SC1WU5U521NB	SC1TWFD424B	SC2HE12401NW	SC1XNCDQ21RB	SC2GZDUQ21H3
SC1WUEU521NB	SC2WA1UQ21WB	SC2HE22401NW	SC1XNDDQ21RB	SC2GZ5UQ21H3
SC1WUFU5213B	SC2WA2UQ21WB	SC2HEC2401NW	SC1XNEDQ21RB	SC2GZEUQ21H3
SC1WUFU5214B	SC2WA3UQ21WB	SC2HED2401NW	SC1XNFDQ21R3	SC2GZFUQ21H3
SC1WU1U541NB	SC2WACUQ21WB	SC2HEE2401NW	SC1XNFDQ21R4	SC2GZFUQ21H4
SC1WU2U541NB	SC2WA4UQ21WB	SC2HEF2401NW	SC1XSAUQ21RB	SC2GZ1DQ21H3
SC1WU3U541NB	SC2WADUQ21WB	SC2HE1480ANW	SC1XSBUQ21RB	SC2GZ2DQ21H3
SC1WUCU541NB	SC2WA5UQ21WB	SC2HE2480ANW	SC1XSCUQ21RB	SC2GZ3DQ21H3
SC1WU4U541NB	SC2WAEUQ21WB	SC2HEC480ANW	SC1XSDUQ21RB	SC2GZCDQ21H3
SC1WUDU541NB	SC2WAFUQ213B	SC2HED480ANW	SC1XSEUQ21RB	SC2GZ4DQ21H3
SC1WU5U541NB	SC2WAFUQ214B	SC2HEE480ANW	SC1XSFUQ21R3	SC2GZDDQ21H3
SC1WUEU541NB	SC2WA1DQ21WB	SC2HEF480ANW	SC1XSFUQ21R4	SC2GZ5DQ21H3
SC1WUFU5413B	SC2WA2DQ21WB	SC2HE11204NW	SC1XSADQ21RB	SC2GZEDQ21H3
SC1WUFU5414B	SC2WA3DQ21WB	SC2HE21204NW	SC1XSBDQ21RB	SC2GZFDQ21H3
SC1WU1U542NB	SC2WACDQ21WB	SC2HEC1204NW	SC1XSCDQ21RB	SC2GZFDQ21H4
SC1WU2U542NB	SC2WA4DQ21WB	SC2HED1204NW	SC1XSDDQ21RB	SC2MZ1UQ21H3
SC1WU3U542NB	SC2WADDQ21WB	SC2HEE1204NW	SC1XSEDQ21RB	SC2MZ2UQ21H3
SC1WUCU542NB	SC2WA5DQ21WB	SC2HEF1204NW	SC1XSFQ21R3	SC2MZ3UQ21H3
SC1WU4U542NB	SC2WAEQ21WB	SC2HE12402NW	SC1XSFQ21R4	SC2MZCUQ21H3
SC1WUDU542NB	SC2WAFDQ213B	SC2HE22402NW	SC0SFCU521NW	SC2MZ4UQ21H3
SC1WU5U542NB	SC2WAFDQ214B	SC2HEC2402NW	SC0SFFU521NW	SC2MZDUQ21H3
SC1WUEU542NB	SC2YB2UQ21WR	SC2HED2402NW	SC0SFCU541NW	SC2MZ5UQ21H3
SC1WUFU5423B	SC2YBCUQ21WR	SC2HEE2402NW	SC0SFFU541NW	SC2MZEUQ21H3
SC1WUFU5424B	SC2YBDUQ21WR	SC2HEF2402NW	SC0SFCU542NW	SC2MZFUQ21H3
SC1WU1DC21NB	SC2YBEUQ21WR	SC2HE14801NW	SC0SFFU542NW	SC2MZFUQ21H4
SC1WU2DC21NB	SC2YBFUQ213R	SC2HE24801NW	SC0SF1DC21NW	SC2MZ1DQ21H3
SC1WU3DC21NB	SC2YBFUQ214R	SC2HEC4801NW	SC0SF2DC21NW	SC2MZ2DQ21H3
SC1WUCDC21NB	SC2YB2DQ21WR	SC2HED4801NW	SC0SFCDC21NW	SC2MZ3DQ21H3
SC1WU4DC21NB	SC2YBCDQ21WR	SC2HEE4801NW	SC0SFDDC21NW	SC2MZCDQ21H3
SC1WUDDC21NB	SC2YBDDQ21WR	SC2HEF4801NW	SC0SFEDC21NW	SC2MZ4DQ21H3
SC1WDCDC21NB	SC2YBEDQ21WR	SC2HE11206NW	SC0SFFDC21NW	SC2MZDDQ21H3
SC1WUEDC21NB	SC2YBFDQ213R	SC2HE21206NW	SC0SF1DC41NW	SC2MZ5DQ21H3
SC1WUFDC213B	SC2YBFDQ214R	SC2HEC1206NW	SC0SF2DC41NW	SC2MZEDQ21H3
SC1WUFDC214B	SC2TC2UQ21WR	SC2HED1206NW	SC0SFCDC41NW	SC2MZFDQ21H3
SC1WU1DC41NB	SC2TCCUQ21WR	SC2HEE1206NW	SC0SFDDC41NW	SC2MZFDQ21H4
SC1WU2DC41NB	SC2TCDUQ21WR	SC2HEF1206NW	SC0SFEDC41NW	SC2NZ1UQ21H3





SC1WU3DC41NB	SC2TCEUQ21WR	SC2HE12403NW	SC0SFFDC41NW	SC2NZ2UQ21H3
SC1WUCDC41NB	SC2TCFUQ213R	SC2HE22403NW	SC0SF1DC42NW	SC2NZ3UQ21H3
SC1WU4DC41NB	SC2TCFUQ214R	SC2HEC2403NW	SC0SF2DC42NW	SC2NZCUQ21H3
SC1WUDDC41NB	SC2TC2DQ21WR	SC2HED2403NW	SC0SFCDC42NW	SC2NZ4UQ21H3
SC1WDCDC41NB	SC2TCCDQ21WR	SC2HEE2403NW	SC0SFDDC42NW	SC2NZDUQ21H3
SC1WUEDC41NB	SC2TCDDQ21WR	SC2HEF2403NW	SC0SFEDC42NW	SC2NZ5UQ21H3
SC1WUFDC413B	SC2TCEDQ21WR	SC2HE1480BNW	SC0SFFDC42NW	SC2NZEUQ21H3
SC1WUFDC414B	SC2TCFDQ213R	SC2HE2480BNW	SC0SF1DN21NW	SC2NZFUQ21H3
SC1WU1DC42NB	SC2TCFDQ214R	SC2HEC480BNW	SC0SF2DN21NW	SC2NZFUQ21H4
SC1WU2DC42NB	SC2QW2UQ21HW	SC2HED480BNW	SC0SFCDN21NW	SC2NZ1DQ21H3
SC1WU3DC42NB	SC2QWCUCQ21HW	SC2HEE480BNW	SC0SFDDN21NW	SC2NZ2DQ21H3
SC1WUCDC42NB	SC2QWDUQ21HW	SC2HEF480BNW	SC0SFEDN21NW	SC2NZ3DQ21H3
SC1WU4DC42NB	SC2QWEUCQ21HW	SC2HE11208NW	SC0SFFDN21NW	SC2NZCDQ21H3
SC1WUDDC42NB	SC2QWFUQ21H3	SC2HE21208NW	SC0SF1DN22NW	SC2NZ4DQ21H3
SC1WDCDC42NB	SC2QWFUQ21H4	SC2HEC1208NW	SC0SF2DN22NW	SC2NZDDQ21H3
SC1WUEDC42NB	SC2QW2UQ21RW	SC2HED1208NW	SC0SFCDN22NW	SC2NZ5DQ21H3
SC1WUFDC423B	SC2QWCUCQ21RW	SC2HEE1208NW	SC0SFDDN22NW	SC2NZEDQ21H3
SC1WUFDC424B	SC2QWDUQ21RW	SC2HEF1208NW	SC0SFEDN22NW	SC2NZFDQ21H3
SC1YX2U521NW	SC2QWEUCQ21RW	SC2HE12404NW	SC0SFFDN22NW	SC2NZFDQ21H4
SC1YXCU521NW	SC2QWFUQ21R3	SC2HE22404NW	SC0SF1DN41NW	SC2RZ1UQ21H3
SC1YXDU521NW	SC2QWFUQ21R4	SC2HEC2404NW	SC0SF2DN41NW	SC2RZ2UQ21H3
SC1YXEU521NW	SC2QC2UQ21WR	SC2HED2404NW	SC0SFCDN41NW	SC2RZ3UQ21H3
SC1YXFU5213W	SC2QCCUCQ21WR	SC2HEE2404NW	SC0SFDDN41NW	SC2RZCUQ21H3
SC1YXFU5214W	SC2QCUCQ21WR	SC2HEF2404NW	SC0SFEDN41NW	SC2RZ4UQ21H3
SC1YX2U541NW	SC2QCEUCQ21WR	SC2HE14802NW	SC0SFFDN41NW	SC2RZDUQ21H3
SC1YXCU541NW	SC2QCFUQ21W3	SC2HE24802NW	SC0SF1DN42NW	SC2RZ5UQ21H3
SC1YXDU541NW	SC2QCFUQ21W4	SC2HEC4802NW	SC0SF2DN42NW	SC2RZEUQ21H3
SC1YXEU541NW	SC2QW2DQ21HW	SC2HED4802NW	SC0SFCDN42NW	SC2RZFUQ21H3
SC1YXFU5413W	SC2QWCDQ21HW	SC2HEE4802NW	SC0SFDDN42NW	SC2RZFUQ21H4
SC1YXFU5414W	SC2QWDDQ21HW	SC2HEF4802NW	SC0SFEDN42NW	SC2RZ1DQ21H3
SC1YX2U542NW	SC2QWEDQ21HW	SC2HE11216NW	SC0SFFDN42NW	SC2RZ2DQ21H3
SC1YXCU542NW	SC2QWFDQ21H3	SC2HE21216NW	SC0SF1DN43NW	SC2RZ3DQ21H3
SC1YXDU542NW	SC2QWFDQ21H4	SC2HEC1216NW	SC0SF2DN43NW	SC2RZCDQ21H3
SC1YXEU542NW	SC2QW2DQ21RW	SC2HED1216NW	SC0SFCDN43NW	SC2RZ4DQ21H3
SC1YXFU5423W	SC2QWCDQ21RW	SC2HEE1216NW	SC0SFDDN43NW	SC2RZDDQ21H3
SC1YXFU5424W	SC2QWDDQ21RW	SC2HEF1216NW	SC0SFEDN43NW	SC2RZ5DQ21H3
SC1YX2DC21NW	SC2QWEDQ21RW	SC2HE12408NW	SC0SFFDN43NW	SC2RZEDQ21H3
SC1YXCDC21NW	SC2QWFDQ21R3	SC2HE22408NW	SC0SF1DN44NW	SC2RZFDQ21H3
SC1YXDCC21NW	SC2QWFDQ21R4	SC2HEC2408NW	SC0SF2DN44NW	SC2RZFDQ21H4
SC1ZZ1UQ2123	SC1ZZ2UQ2123	SC1ZZ3UQ2123	SC1ZZCUQ2123	SC1ZZ4UQ2123
SC1ZZDUQ2123	SC1ZZ5UQ2123	SC1ZZEUQ2123	SC1ZZFUQ2123	SC1ZZFUQ2124
SC1ZZ1DQ2123	SC1ZZ2DQ2123	SC1ZZ3DQ2123	SC1ZZCDQ2123	SC1ZZ4DQ2123
SC1ZZDDQ2123	SC1ZZ5DQ2123	SC1ZZEDQ2123	SC1ZZFDQ2123	SC1ZZFDQ2124







## 2. Evaluation Method

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission’s guidelines. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

In accordance with KDB447498D01 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modelled or measured field strengths or power density, is ≤ 1.0. The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

## 3. Limit

### 3.1 Refer Evaluation Method

[ANSI C95.1–1999](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

[FCC KDB publication 447498 D01 General 1 RF Exposure Guidance v06](#): Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

[FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.

[FCC CFR 47 part2 2.1091](#): Radiofrequency radiation exposure evaluation: Mobile Devices

### 3.2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100)*	6
3.0 – 30	1842/f	4.89/f	(900/f <sup>2</sup> )*	6
30 – 300	61.4	0.163	1.0	6
300 – 1500	/	/	f/300	6
1500 – 100,000	/	/	5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minute)
Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100)*	30
3.0 – 30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30 – 300	27.5	0.073	0.2	30
300 – 1500	/	/	f/1500	30
1500 – 100,000	/	/	1.0	30

F=frequency in MHz

\*=Plane-wave equivalent power density





### 4. MPE Calculation Method

Predication of MPE limit at a given distance  
Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S=PG/4\pi R^2$$

Where: S=power density  
P=power input to antenna  
G=power gain of the antenna in the direction of interest relative to an isotropic radiator  
R=distance to the center of radiation of the antenna

### 5. Antenna Information

EUT can only use antennas certificated as follows provided by manufacturer;

Antenna type and antenna number	Operate frequency band	Maximum antenna gain	Notes
Internal Antenna	2400MHz ~ 2500MHz	0dBi	BT/WiFi Antenna

### 6. Conducted Power

[BLE]

Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
BLE_1M	0	2402	0.32
	19	2440	0.17
	39	2480	-1.93
BLE_2M	0	2402	0.48
	19	2440	0.3
	39	2480	1.47

[2.4GWIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11B	1	2412	16.33
	6	2437	16.72
	11	2462	16.26
11G	1	2412	15.46
	6	2437	15.56
	11	2462	15.23
11N20 SISO	1	2412	14.60
	6	2437	14.38
	11	2462	14.91
11N40 SISO	3	2422	14.08
	6	2437	13.91
	9	2452	14.24





## 7. Measurement Results

### BLE

BT LE (Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	0	0	-1.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
BT 2LE (Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	0	0	1.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0

### [2.4GWIFI]

11B (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	16.0	16.0	16.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11G (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	15.0	15.0	15.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N20 (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	14.0	14.0	14.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0
11N40 (Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	14.0	13.0	14.0
Tolerance $\pm$ (dB)	1.0	1.0	1.0





### 8. Evaluation Results

#### 8.1 Standalone MPE Evaluation

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance,  $r = 20\text{cm}$ , as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

#### BLE

Band/Mode	RF output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm <sup>2</sup> )	MPE Limits (mW/cm <sup>2</sup> )
	dBm	mW				
BT LE	1.0	1.2589	0	1.0000	0.0003	1.0000
BT 2LE	2.0	1.5849	0	1.0000	0.0003	1.0000

#### [2.4GWIFI]

Band/Mode	RF output power		Antenna Gain (dBi)	Antenna Gain (linear)	MPE (mW/cm <sup>2</sup> )	MPE Limits (mW/cm <sup>2</sup> )
	dBm	mW				
IEEE 802.11b	17.0	50.1187	0	1.0000	0.0100	1.0000
IEEE 802.11g	16.0	39.8107	0	1.0000	0.0079	1.0000
IEEE 802.11n HT20	15.0	31.6228	0	1.0000	0.0063	1.0000
IEEE 802.11n HT40	15.0	31.6228	0	1.0000	0.0063	1.0000







### 8.2 Simultaneous Transmission MPE

The sample support one BT/2.4GWLAN, so not need consider simultaneous transmission;

### 9. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

-----THE END OF REPORT-----

