



## RF Exposure Evaluation

For

EMBIT SRL - EMBEDDED &amp; WIRELESS SOLUTIONS

EMB-Fem2GW-O-2G4

Test Model: EMB-Fem2GW-O-2G4

Prepared for : EMBIT SRL - EMBEDDED & WIRELESS SOLUTIONS  
Address : Via Emilia Est 911, Modena, Mo, Italy

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.  
Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,  
Shajing Street, Baoan District, Shenzhen, 518000, China

Tel : (+86)755-82591330  
Fax : (+86)755-82591332  
Web : www.LCS-cert.com  
Mail : webmaster@LCS-cert.com

Date of receipt of test sample : April 01, 2026  
Number of tested samples : 2  
Sample No. : A260105064-1, A260105064-2  
Serial number : Prototype  
Date of Test : April 01, 2026 ~ July 14, 2026  
Date of Report : July 15, 2026



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: (+86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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| RF Exposure Evaluation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Report Reference No. ....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LCSA01056140EB                                                                                                                 |
| Date of Issue.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | July 15, 2026                                                                                                                  |
| Testing Laboratory Name.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Shenzhen LCS Compliance Testing Laboratory Ltd.                                                                                |
| Address.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China     |
| Testing Location/ Procedure.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Full application of Harmonised standards ■<br>Partial application of Harmonised standards □<br>Other standard testing method □ |
| Applicant's Name.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | EMBIT SRL - EMBEDDED & WIRELESS SOLUTIONS                                                                                      |
| Address.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Via Emilia Est 911, Modena, Mo, Italy                                                                                          |
| <b>Test Specification</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                |
| Standard.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | FCC KDB publication 447498 D01 General RF Exposure Guidance v06<br>FCC CFR 47 part1 1.1310<br>FCC CFR 47 part2 2.1091          |
| Test Report Form No.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TRF-4-E-215 A/0                                                                                                                |
| TRF Originator.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Shenzhen LCS Compliance Testing Laboratory Ltd.                                                                                |
| Master TRF.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Dated 2011-03                                                                                                                  |
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| <b>Test Item Description..... : EMB-Fem2GW-O-2G4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                |
| Trade Mark.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | N/A                                                                                                                            |
| Test Model.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | EMB-Fem2GW-O-2G4                                                                                                               |
| Ratings.....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Please Refer to Page 6                                                                                                         |
| Result .....                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | PASS                                                                                                                           |

Compiled by:

Diamond Lu/ Administrator

Supervised by:

Kevin Huang/ RF Manager

Approved by:

Gavin Liang/ Manager



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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## RF Exposure Evaluation

|                                         |                                |
|-----------------------------------------|--------------------------------|
| Test Report No. : <b>LCSA01056140EB</b> | July 15, 2026<br>Date of issue |
|-----------------------------------------|--------------------------------|

|                          |                                                        |
|--------------------------|--------------------------------------------------------|
| EUT.....                 | : EMB-Fem2GW-O-2G4                                     |
| Test Model.....          | : EMB-Fem2GW-O-2G4                                     |
| <b>Applicant.....</b>    | <b>: EMBIT SRL - EMBEDDED &amp; WIRELESS SOLUTIONS</b> |
| Address.....             | : Via Emilia Est 911, Modena, Mo, Italy                |
| Telephone.....           | : /                                                    |
| Fax.....                 | : /                                                    |
| <b>Manufacturer.....</b> | <b>: EMBIT SRL - EMBEDDED &amp; WIRELESS SOLUTIONS</b> |
| Address.....             | : Via Emilia Est 911, Modena, Mo, Italy                |
| Telephone.....           | : /                                                    |
| Fax.....                 | : /                                                    |
| <b>Factory.....</b>      | <b>: EMBIT SRL - EMBEDDED &amp; WIRELESS SOLUTIONS</b> |
| Address.....             | : Via Emilia Est 911, Modena, Mo, Italy                |
| Telephone.....           | : /                                                    |
| Fax.....                 | : /                                                    |

|                    |             |
|--------------------|-------------|
| <b>Test Result</b> | <b>PASS</b> |
|--------------------|-------------|

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Revision History

| Report Version | Issue Date    | Revision Content | Revised By |
|----------------|---------------|------------------|------------|
| 000            | July 15, 2026 | Initial Issue    | ---        |
|                |               |                  |            |
|                |               |                  |            |





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Tel: +(86) 0755-82591330 | E-mail: [webmaster@lcs-cert.com](mailto:webmaster@lcs-cert.com) | Web: [www.lcs-cert.com](http://www.lcs-cert.com)

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## 1. Product Information

|                     |   |                                                                                                                                                          |
|---------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUT                 | : | EMB-Fem2GW-O-2G4                                                                                                                                         |
| Test Model          | : | EMB-Fem2GW-O-2G4                                                                                                                                         |
| Ratings             | : | DC 48V by IEEE 802.3af/at Power Over Ethernet                                                                                                            |
| Hardware Version    | : | EMB-Fem2GW-O                                                                                                                                             |
| Software Version    | : | EMB-Fem2GW-O                                                                                                                                             |
| LoRa                | : |                                                                                                                                                          |
| Frequency Range     | : | 2403MHz~2479MHz                                                                                                                                          |
| Channel Number      | : | 2403MHz, 2425MHz, 2479MHz                                                                                                                                |
| Modulation Type     | : | CSS                                                                                                                                                      |
| Antenna Description | : | Antenna: f01-029<br>External Antenna, 2.1dBi(Max.)<br>Antenna: F01-038-A<br>External Antenna, 5.0dBi(Max.)                                               |
| Bluetooth           | : |                                                                                                                                                          |
| Frequency Range     | : | 2402MHz~2480MHz                                                                                                                                          |
| Channel Number      | : | 79 channels for Bluetooth (DSS)<br>40 channels for Bluetooth LE(DTS)                                                                                     |
| Modulation Type     | : | GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth (DSS)<br>GFSK for Bluetooth LE (DTS)                                                                          |
| Antenna Description | : | Internal Antenna, 3.5dBi(Max.)                                                                                                                           |
| 2.4GWiFi            | : |                                                                                                                                                          |
| Frequency Range     | : | 2412MHz~2462MHz                                                                                                                                          |
| Channel Spacing     | : | 5MHz                                                                                                                                                     |
| Channel Number      | : | 11 Channels for 20MHz bandwidth (2412~2462MHz)<br>7 Channels for 40MHz bandwidth (2422~2452MHz)                                                          |
| Antenna Description | : | Internal Antenna, 3.5dBi(Max.)                                                                                                                           |
| WIFI(5.2G Band)     | : |                                                                                                                                                          |
| Frequency Range     | : | 5150MHz~5250MHz                                                                                                                                          |
| Channel Number      | : | 4 Channels for 20MHz bandwidth(5180MHz~5240MHz)<br>2 channels for 40MHz bandwidth(5190MHz~5230MHz)<br>1 channels for 80MHz bandwidth(5210MHz)            |
| Modulation Type     | : | IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) |
| Antenna Description | : | Internal Antenna, 2.5dBi(Max.)                                                                                                                           |
| WIFI(5.3G Band)     | : |                                                                                                                                                          |
| Frequency Range     | : | 5250MHz~5350MHz                                                                                                                                          |
| Channel Number      | : | 4 Channels for 20MHz bandwidth(5260MHz~5320MHz)<br>2 channels for 40MHz bandwidth(5270MHz~5310MHz)<br>1 channels for 80MHz bandwidth(5290MHz)            |



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|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Modulation Type     | : IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Antenna Description | : Internal Antenna, 2.5dBi(Max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| WIFI(5.5G Band)     | :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Frequency Range     | : 5470MHz~5725MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Channel Number      | : 11 Channels for 20MHz bandwidth(5500MHz~5700MHz)<br>5 Channels for 40MHz bandwidth(5510MHz~5670MHz)<br>2 Channels for 80MHz bandwidth(5530MHz, 5610MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Modulation Type     | : IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Antenna Description | : Internal Antenna, 2.5dBi(Max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| WIFI(5.8G Band)     | :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Frequency Range     | : 5725MHz~5850MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Channel Number      | : 5 channels for 20MHz bandwidth(5745MHz~5825MHz)<br>2 channels for 40MHz bandwidth(5755MHz~5795MHz)<br>1 channels for 80MHz bandwidth(5775MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Modulation Type     | : IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Antenna Description | : Internal Antenna, 2.5dBi(Max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| GSM&WCDMA&LTE       | :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Support Band        | : GSM 850/PCS 1900<br>WCDMA Band II/WCDMA Band IV/WCDMA Band V<br>LTE: Band 2, 4, 5, 7, 12, 13, 25, 26, 38, 41, 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Type Of Modulation  | : QPSK/64QAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Antenna Description | : Internal Antenna<br>-0.1dBi (max.) For GSM 850<br>3.9dBi (max.) For PCS 1900<br>3.9dBi (max.) For WCDMA Band II<br>2.5dBi (max.) For WCDMA Band IV<br>-0.1dBi (max.) For WCDMA Band V<br>3.9dBi (max.) For E-UTRA Band 2<br>2.5dBi (max.) For E-UTRA Band 4<br>-0.1dBi (max.) For E-UTRA Band 5<br>3.5dBi (max.) For E-UTRA Band 7<br>0.2dBi (max.) For E-UTRA Band 12<br>-0.9dBi (max.) For E-UTRA Band 13<br>3.9dBi (max.) For E-UTRA Band 25<br>-0.1dBi (max.) For E-UTRA Band 26<br>3.1dBi (max.) For E-UTRA Band 38<br>3.5dBi (max.) For E-UTRA Band 41<br>3.2dBi (max.) For E-UTRA Band 66 |
| Exposure category   | : General population/uncontrolled environment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |





|                                                                                                                                           |   |                 |
|-------------------------------------------------------------------------------------------------------------------------------------------|---|-----------------|
| EUT Type                                                                                                                                  | : | Production Unit |
| Device Type                                                                                                                               | : | Mobile Device   |
| Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer. |   |                 |

## 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  $\leq 1.0$ . 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 C95.1-2019](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz 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/Uncontrolled 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



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#### 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. Conducted Power

[LoRa 2.4G]

| Mode | Channel | Frequency (MHz) | Peak Conducted Output Power (dBm) | Target (dBm) | Tolerance ± (dB) |
|------|---------|-----------------|-----------------------------------|--------------|------------------|
| CSS  | 01      | 2403            | 11.02                             | 11.0         | 1.0              |
|      | 02      | 2425            | 10.75                             | 11.0         | 1.0              |
|      | 03      | 2479            | 10.77                             | 11.0         | 1.0              |

For 2.4GHz BT(BDR/ EDR worst case):

Values:

Transmitter frequencyrange =2402-2480MHZ

P=6.5dBm(Max Conducted Power)

G=3.5dBi

According to the test report No.: UL-RPT-RP13337971-1016A(FCCID: 2ABCB-RPIRM0)

For 2.4GHz WLAN :

Values:

Transmitter frequency range=2412-2462MHZ

P=15.4dBm(Max Conducted Power)

G= 3.5dBi

According to the test report No.: UL-RPT-RP13337971-1416A(FCCID: 2ABCB-RPIRM0)

For 5GHz RLAN :

Values:

Transmitter frequency range=5180-5825MHZ

P=18.2dBm(Max Conducted Power)

G= 2.5dBi

According to the test report No.: UL-RPT-RP13337971-1616A&UL-RPT-RP13337971-1616B

&UL-RPT-RP13337971-1616C&UL-RPT-RP13337971-1616D(FCCID: 2ABCB-RPIRM0)

For GSM&WCDMA&LTE :

| Mode          | Frequency Band(MHz) | Max Conducted Power(dBm) |
|---------------|---------------------|--------------------------|
| GSM 850       | 824~849             | 32.93                    |
| PCS 1900      | 1850~1910           | 30.06                    |
| WCDMA Band II | 1850~1910           | 24.46                    |



Shenzhen LCS Compliance Testing Laboratory Ltd.

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|---------------|-----------|-------|
| WCDMA Band IV | 1710~1755 | 23.96 |
| WCDMA Band V  | 824~849   | 23.79 |
| LTE Band 2    | 1850~1910 | 23.62 |
| LTE Band 4    | 1710~1755 | 23.62 |
| LTE Band 5    | 824~849   | 23.59 |
| LTE Band 7    | 2500~2570 | 23.32 |
| LTE Band 12   | 699~716   | 23.39 |
| LTE Band 13   | 777~787   | 23.06 |
| LTE Band 25   | 1850~1915 | 23.62 |
| LTE Band 26   | 814~849   | 23.59 |
| LTE Band 38   | 2570~2620 | 23.24 |
| LTE Band 41   | 2496~2690 | 23.24 |
| LTE Band 66   | 1710~1780 | 23.06 |

According to the test report No.: 2211RSU065-U1&2211RSU065-U2&2211RSU065-U4 (FCCID: XMR202212EG25GL)



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: [webmaster@lcs-cert.com](mailto:webmaster@lcs-cert.com) | Web: [www.lcs-cert.com](http://www.lcs-cert.com)

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## 6. Measurement Results

### 6.1 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.

| Modulation Type         | Output power |           | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) | MPE ratio |
|-------------------------|--------------|-----------|--------------------|-----------------------|---------------------------|----------------------------------|-----------|
|                         | dBm          | mW        |                    |                       |                           |                                  |           |
| LoRa 2.4G               | 12.0         | 15.8489   | 5.0                | 3.1623                | 0.0100                    | 1.0000                           | 0.0100    |
| BT(BDR/ EDR worst case) | 6.5          | 4.4668    | 3.5                | 2.2387                | 0.0020                    | 1.0000                           | 0.0020    |
| 2.4GHz WLAN             | 15.4         | 34.6737   | 3.5                | 2.2387                | 0.0155                    | 1.0000                           | 0.0155    |
| For 5GHz RLAN           | 18.2         | 66.0693   | 2.5                | 1.7783                | 0.0234                    | 1.0000                           | 0.0234    |
| GSM 850                 | 32.93        | 1963.3603 | -0.1               | 0.9772                | 0.3819                    | 0.5493                           | 0.6952    |
| PCS 1900                | 30.06        | 1013.9114 | 3.9                | 2.4547                | 0.4954                    | 1.0000                           | 0.4954    |
| WCDMA Band II           | 24.46        | 279.2544  | 3.9                | 2.4547                | 0.1364                    | 1.0000                           | 0.1364    |
| WCDMA Band IV           | 23.96        | 248.8857  | 2.5                | 1.7783                | 0.0881                    | 1.0000                           | 0.0881    |
| WCDMA Band V            | 23.79        | 239.3316  | -0.1               | 0.9772                | 0.0466                    | 0.5493                           | 0.0848    |
| LTE Band 2              | 23.62        | 230.1442  | 3.9                | 2.4547                | 0.1124                    | 1.0000                           | 0.1124    |
| LTE Band 4              | 23.62        | 230.1442  | 2.5                | 1.7783                | 0.0815                    | 1.1400                           | 0.0715    |
| LTE Band 5              | 23.59        | 228.5599  | -0.1               | 0.9772                | 0.0445                    | 0.5493                           | 0.0810    |
| LTE Band 7              | 23.32        | 214.7830  | 3.5                | 2.2387                | 0.0957                    | 1.0000                           | 0.0957    |
| LTE Band 12             | 23.39        | 218.2730  | 0.2                | 1.0471                | 0.0455                    | 0.4660                           | 0.0976    |
| LTE Band 13             | 23.06        | 202.3019  | -0.9               | 0.8128                | 0.0327                    | 0.5180                           | 0.0631    |
| LTE Band 25             | 23.62        | 230.1442  | 3.9                | 2.4547                | 0.1124                    | 1.0000                           | 0.1124    |
| LTE Band 26             | 23.59        | 228.5599  | -0.1               | 0.9772                | 0.0445                    | 0.5427                           | 0.0820    |
| LTE Band 38             | 23.24        | 210.8628  | 3.1                | 2.0417                | 0.0857                    | 1.0000                           | 0.0857    |
| LTE Band 41             | 23.24        | 210.8628  | 3.5                | 2.2387                | 0.0940                    | 1.0000                           | 0.0940    |
| LTE Band 66             | 23.06        | 202.3019  | 3.2                | 2.0893                | 0.0841                    | 1.0000                           | 0.0841    |

**Remark:**

1. Output power including tune-up tolerance;
2. Output power was adjust to duty cycle at 100% if measured duty cycle less than 98%;
3. MPE evaluate distance is 20cm from user manual provide by manufacturer.
4. Only maximum antenna gain recorded in this report



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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## 6.2 Simultaneous Transmission MPE Evaluation

The sample support one BT&BLE&2.4GWLAN&5.2GWLAN&5.3GWLAN&5.5GWLAN(MPE1), another one GSM&WCDMA&LTE(MPE2) and another one LoRa (MPE3)transmit antenna, so need consider simultaneous transmission;

Simultaneous transmission MPE

According to KDB447498 for Transmitters used in mobile exposure conditions for simultaneous transmission operations;

$\sum$  of MPE ratios  $\leq 1.0$

| Mode                       | MPE1 Max. | MPE2 Max. | MPE3 Max | $\sum$ MPE ratios | Limit | Results |
|----------------------------|-----------|-----------|----------|-------------------|-------|---------|
| BT&WIFI+GSM&WCDMA&LTE+LoRa | 0.0234    | 0.6952    | 0.0100   | 0.7286            | 1.000 | Pass    |

## 7. Conclusion

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

## 8. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

## 9. Measurement Uncertainty

ForLora:

| Test Item    | Frequency Range | Uncertainty   | Note |
|--------------|-----------------|---------------|------|
| Output power | 1GHz-40GHz      | $\pm 0.57$ dB | (1)  |

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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



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