



## RF Exposure Evaluation

## FOR

IAG Group Ltd.

Network Player

Test Model: 778S

Prepared for : IAG Group Ltd.  
Address : Level 1 Electronics Building, Sanecore Industrial Park, Jiuwei,  
Hangcheng, Bao An District, Shenzhen, Guangdong, China.

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 : January 07, 2026  
Number of tested samples : 2  
Sample No. : A251029070-1, A251029070-2  
Serial number : Prototype  
Date of Test : January 07, 2026 ~ March 05, 2026  
Date of Report : March 06, 2026



**RF Exposure Evaluation****Report Reference No.** ..... : **LCSA09225145EF****Date of Issue**..... : March 06, 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 ■  
Partial application of Harmonised standards □  
Other standard testing method □**Applicant's Name**..... : **IAG Group Ltd.****Address**..... : Level 1 Electronics Building, Sanecore Industrial Park, Jiuwei,  
Hangcheng, Bao An District, Shenzhen, Guangdong, China.**Test Specification****Standard**..... : FCC KDB publication 447498 D01 General RF Exposure Guidance v06  
FCC CFR 47 part1 1.1310  
FCC CFR 47 part2 2.1091**Test Report Form No.**..... : TRF-4-E-214 A/0**TRF Originator**..... : Shenzhen LCS Compliance Testing Laboratory Ltd.**Master TRF**..... : Dated 2011-03**Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved.**

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen LCS Compliance Testing Laboratory Ltd. is acknowledged as copyright owner and source of the material. Shenzhen LCS Compliance Testing Laboratory Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

**Test Item Description**..... : **Network Player****Trade Mark**..... : Mission**Test Model**..... : 778S**Ratings**..... : Please Refer to Page 6**Result** ..... : **Pass****Compiled by:**

Li Huan/ 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

Scan code to check authenticity



## RF Exposure Evaluation

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Test Report No. : <b>LCSA09225145EF</b> | <u>March 06, 2026</u><br>Date of issue |
|-----------------------------------------|----------------------------------------|

|                          |                                                                                                                                 |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Test Model.....          | : 778S                                                                                                                          |
| EUT.....                 | : Network Player                                                                                                                |
| <b>Applicant.....</b>    | <b>: IAG Group Ltd.</b>                                                                                                         |
| Address.....             | : Level 1 Electronics Building, Sanecore Industrial Park,<br>Jiuwei, Hangcheng, Bao An District, Shenzhen,<br>Guangdong, China. |
| Telephone.....           | : /                                                                                                                             |
| Fax.....                 | : /                                                                                                                             |
| <b>Manufacturer.....</b> | <b>: Sanecore Audio ( Ji'an ) Co., Ltd</b>                                                                                      |
| Address.....             | : Fenghuang Industrial Park, Ji'an County, Ji'an City,<br>Jiangxi, China                                                        |
| Telephone.....           | : /                                                                                                                             |
| Fax.....                 | : /                                                                                                                             |
| <b>Factory.....</b>      | <b>: Sanecore Audio ( Ji'an ) Co., Ltd</b>                                                                                      |
| Address.....             | : Fenghuang Industrial Park, Ji'an County, Ji'an City,<br>Jiangxi, China                                                        |
| 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.





Revision History

| Report Version | Issue Date     | Revision Content | Revised By |
|----------------|----------------|------------------|------------|
| 000            | March 06, 2026 | Initial Issue    | ---        |
|                |                |                  |            |
|                |                |                  |            |





TABLE OF CONTENTS

| Description                          | Page |
|--------------------------------------|------|
| 1. Product Information.....          | 6    |
| 2. Evaluation Method.....            | 8    |
| 3. Limit.....                        | 8    |
| 4. MPE Calculation Method.....       | 9    |
| 5. Conducted Power.....              | 9    |
| 6. Manufacturing Tolerance.....      | 11   |
| 7. Measurement Results.....          | 14   |
| 8. Conclusion.....                   | 15   |
| 9. Description of Test Facility..... | 15   |
| 10.Measurement Uncertainty.....      | 15   |





## 1. Product Information

|                     |                                                                                                                                                            |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUT                 | : Network Player                                                                                                                                           |
| Test Model          | : 778S                                                                                                                                                     |
| Ratings             | : Input: 100-120V~, 50/60Hz, 40W                                                                                                                           |
| Hardware Version    | : /                                                                                                                                                        |
| Software Version    | : /                                                                                                                                                        |
| WIFI(2.4G Band)     | :                                                                                                                                                          |
| Frequency Range     | : 2412MHz~2462MHz                                                                                                                                          |
| Channel Spacing     | : 5MHz                                                                                                                                                     |
| Channel Number      | : 11 Channels for 20MHz bandwidth (2412~2462MHz)<br>7 Channels for 40MHz bandwidth (2422~2452MHz)                                                          |
| Modulation Type     | : IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)<br>IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)                 |
| Antenna Description | : Dipole Antenna, 3.60dBi(Max.)                                                                                                                            |
| WIFI(5.2G Band)     | :                                                                                                                                                          |
| Frequency Range     | : 5180MHz~5240MHz                                                                                                                                          |
| 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 | : Dipole Antenna, 3.71dBi(Max.)                                                                                                                            |
| WIFI(5.3G Band)     | :                                                                                                                                                          |
| Frequency Range     | : 5260MHz~5320MHz                                                                                                                                          |
| Channel Number      | : 4 Channels for 20MHz bandwidth(5260MHz~5320MHz)<br>2 channels for 40MHz bandwidth(5270MHz~5310MHz)<br>1 channels for 80MHz bandwidth(5290MHz)            |
| 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 | : Dipole Antenna, 3.71dBi(Max.)                                                                                                                            |
| WIFI(5.5G Band)     | :                                                                                                                                                          |
| Frequency Range     | : 5500MHz~5700MHz                                                                                                                                          |
| 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 | : Dipole Antenna, 3.71dBi(Max.)                                                                                                                            |
| WIFI(5.8G Band)     | :                                                                                                                                                          |
| Frequency Range     | : 5745MHz~5825MHz                                                                                                                                          |
| 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 | : Dipole Antenna, 3.71dBi(Max.)                                                                                                                            |
| 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



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

Scan code to check authenticity



#### 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

[2.4G WIFI]

| Mode       | Channel | Frequency (MHz) | Conducted Output Power (dBm) |
|------------|---------|-----------------|------------------------------|
| 11B        | 1       | 2412            | 15.26                        |
|            | 6       | 2437            | 14.62                        |
|            | 11      | 2462            | 14.20                        |
| 11G        | 1       | 2412            | 14.04                        |
|            | 6       | 2437            | 13.23                        |
|            | 11      | 2462            | 13.08                        |
| 11N20 SISO | 1       | 2412            | 14.48                        |
|            | 6       | 2437            | 13.70                        |
|            | 11      | 2462            | 13.48                        |
| 11N40 SISO | 3       | 2412            | 13.80                        |
|            | 6       | 2437            | 12.87                        |
|            | 9       | 2462            | 13.39                        |

[5.2G WIFI]

| Mode        | Channel | Frequency (MHz) | Max Conducted Power(dBm) |
|-------------|---------|-----------------|--------------------------|
| 11A         | 36      | 5180            | 12.34                    |
|             | 40      | 5200            | 12.37                    |
|             | 48      | 5240            | 12.7                     |
| 11N20 SISO  | 36      | 5180            | 12.75                    |
|             | 40      | 5200            | 12.8                     |
|             | 48      | 5240            | 12.98                    |
| 11N40 SISO  | 38      | 5190            | 11.99                    |
|             | 46      | 5230            | 12.09                    |
| 11AC20 SISO | 36      | 5180            | 12.82                    |
|             | 40      | 5200            | 12.71                    |
|             | 48      | 5240            | 13.08                    |
| 11AC40 SISO | 38      | 5190            | 11.57                    |
|             | 46      | 5230            | 11.69                    |
| 11AC80 SISO | 42      | 5210            | 11.03                    |

[5.3G WIFI]

| Mode       | Channel | Frequency (MHz) | Max Conducted Power(dBm) |
|------------|---------|-----------------|--------------------------|
| 11A        | 52      | 5260            | 14.09                    |
|            | 60      | 5280            | 14.14                    |
|            | 64      | 5320            | 13.73                    |
| 11N20 SISO | 52      | 5260            | 14.61                    |
|            | 60      | 5280            | 14.51                    |
|            | 64      | 5320            | 14.02                    |
| 11N40 SISO | 54      | 5270            | 13.6                     |



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

Scan code to check authenticity



|             |    |      |       |
|-------------|----|------|-------|
|             | 62 | 5310 | 13.4  |
| 11AC20 SISO | 52 | 5260 | 14.57 |
|             | 60 | 5280 | 14.55 |
|             | 64 | 5320 | 14.09 |
|             | 54 | 5270 | 13.68 |
| 11AC40 SISO | 62 | 5310 | 13.48 |
| 11AC80 SISO | 58 | 5290 | 12.33 |

## [5.5G WIFI]

| Mode        | Channel | Frequency (MHz) | Max Conducted Power(dBm) |
|-------------|---------|-----------------|--------------------------|
| 11A         | 100     | 5500            | 13.44                    |
|             | 116     | 5580            | 13.79                    |
|             | 140     | 5700            | 12.58                    |
| 11N20 SISO  | 100     | 5500            | 13.69                    |
|             | 116     | 5580            | 13.9                     |
|             | 140     | 5700            | 12.65                    |
| 11N40 SISO  | 102     | 5510            | 12.9                     |
|             | 110     | 5550            | 12.59                    |
|             | 134     | 5670            | 12.55                    |
| 11AC20 SISO | 100     | 5500            | 13.52                    |
|             | 116     | 5580            | 14.03                    |
|             | 140     | 5700            | 13.37                    |
| 11AC40 SISO | 102     | 5510            | 12.92                    |
|             | 110     | 5550            | 12.67                    |
|             | 134     | 5670            | 12.54                    |
| 11AC80 SISO | 106     | 5530            | 13.06                    |
|             | 122     | 5610            | 13.71                    |

## [5.8G WIFI]

| Mode        | Channel | Frequency (MHz) | Max Conducted Power(dBm) |
|-------------|---------|-----------------|--------------------------|
| 11A         | 149     | 5745            | 12.38                    |
|             | 157     | 5785            | 12.33                    |
|             | 165     | 5825            | 12.66                    |
| 11N20 SISO  | 149     | 5745            | 12.85                    |
|             | 157     | 5785            | 12.8                     |
|             | 165     | 5825            | 12.98                    |
| 11N40 SISO  | 151     | 5755            | 12.85                    |
|             | 159     | 5795            | 12.81                    |
| 11AC20 SISO | 149     | 5745            | 12.77                    |
|             | 157     | 5785            | 12.74                    |
|             | 165     | 5825            | 13.05                    |
| 11AC40 SISO | 151     | 5755            | 12.93                    |
|             | 159     | 5795            | 12.78                    |
| 11AC80 SISO | 155     | 5775            | 13.27                    |



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

Scan code to check authenticity



## 6. Manufacturing Tolerance

### [2.4G WIFI]

| 11B (Average)        |           |           |            |
|----------------------|-----------|-----------|------------|
| Channel              | Channel 1 | Channel 6 | Channel 11 |
| Target (dBm)         | 15.0      | 14.0      | 14.0       |
| Tolerance $\pm$ (dB) | 1.0       | 1.0       | 1.0        |
| 11G (Average)        |           |           |            |
| Channel              | Channel 1 | Channel 6 | Channel 11 |
| Target (dBm)         | 14.0      | 13.0      | 13.0       |
| Tolerance $\pm$ (dB) | 1.0       | 1.0       | 1.0        |
| 11N20 (Average)      |           |           |            |
| Channel              | Channel 1 | Channel 6 | Channel 11 |
| Target (dBm)         | 14.0      | 13.0      | 13.0       |
| Tolerance $\pm$ (dB) | 1.0       | 1.0       | 1.0        |
| 11N40 (Average)      |           |           |            |
| Channel              | Channel 3 | Channel 6 | Channel 9  |
| Target (dBm)         | 13.0      | 12.0      | 13.0       |
| Tolerance $\pm$ (dB) | 1.0       | 1.0       | 1.0        |

### [5.2G WIFI]

| 11A (Average)    |            |            |            |
|------------------|------------|------------|------------|
| Channel          | Channel 36 | Channel 40 | Channel 48 |
| Target (dBm)     | 12.0       | 12.0       | 12.0       |
| Tolerance ±(dB)  | 1.0        | 1.0        | 1.0        |
| 11N20 (Average)  |            |            |            |
| Channel          | Channel 36 | Channel 40 | Channel 48 |
| Target (dBm)     | 12.0       | 12.0       | 12.0       |
| Tolerance ±(dB)  | 1.0        | 1.0        | 1.0        |
| 11N40 (Average)  |            |            |            |
| Channel          | Channel 38 | Channel 46 |            |
| Target (dBm)     | 11.0       | 12.0       |            |
| Tolerance ±(dB)  | 1.0        | 1.0        |            |
| 11AC20 (Average) |            |            |            |
| Channel          | Channel 36 | Channel 40 | Channel 48 |
| Target (dBm)     | 12.0       | 12.0       | 13.0       |
| Tolerance ±(dB)  | 1.0        | 1.0        | 1.0        |
| 11AC40 (Average) |            |            |            |
| Channel          | Channel 38 | Channel 46 |            |
| Target (dBm)     | 11.0       | 11.0       |            |
| Tolerance ±(dB)  | 1.0        | 1.0        |            |
| 11AC80 (Average) |            |            |            |
| Channel          | Channel 42 |            |            |
| Target (dBm)     | 11.0       |            |            |
| Tolerance ±(dB)  | 1.0        |            |            |





## [5.3G WIFI]

| 11A (Average)        |            |            |            |
|----------------------|------------|------------|------------|
| Channel              | Channel 52 | Channel 60 | Channel 64 |
| Target (dBm)         | 14.0       | 13.0       | 13.0       |
| Tolerance $\pm$ (dB) | 1.0        | 1.0        | 1.0        |
| 11N HT20 (Average)   |            |            |            |
| Channel              | Channel 52 | Channel 60 | Channel 64 |
| Target (dBm)         | 14.0       | 14.0       | 14.0       |
| Tolerance $\pm$ (dB) | 1.0        | 1.0        | 1.0        |
| 11N HT40 (Average)   |            |            |            |
| Channel              | Channel 54 | Channel 62 |            |
| Target (dBm)         | 13.0       | 13.0       |            |
| Tolerance $\pm$ (dB) | 1.0        | 1.0        |            |
| 11AC VHT20 (Average) |            |            |            |
| Channel              | Channel 52 | Channel 60 | Channel 64 |
| Target (dBm)         | 14.0       | 14.0       | 14.0       |
| Tolerance $\pm$ (dB) | 1.0        | 1.0        | 1.0        |
| 11AC VHT40 (Average) |            |            |            |
| Channel              | Channel 54 | Channel 62 |            |
| Target (dBm)         | 13.0       | 13.0       |            |
| Tolerance $\pm$ (dB) | 1.0        | 1.0        |            |
| 11AC VHT80 (Average) |            |            |            |
| Channel              | Channel 58 |            |            |
| Target (dBm)         | 12.0       |            |            |
| Tolerance $\pm$ (dB) | 1.0        |            |            |

## [5.5G WIFI]

| 11A (Average)        |             |             |             |
|----------------------|-------------|-------------|-------------|
| Channel              | Channel 100 | Channel 116 | Channel 140 |
| Target (dBm)         | 13.0        | 13.0        | 12.0        |
| Tolerance $\pm$ (dB) | 1.0         | 1.0         | 1.0         |
| 11N HT20 (Average)   |             |             |             |
| Channel              | Channel 100 | Channel 116 | Channel 140 |
| Target (dBm)         | 13.0        | 13.0        | 12.0        |
| Tolerance $\pm$ (dB) | 1.0         | 1.0         | 1.0         |
| 11N HT40 (Average)   |             |             |             |
| Channel              | Channel 102 | Channel 110 | Channel 134 |
| Target (dBm)         | 12.0        | 12.0        | 12.0        |
| Tolerance $\pm$ (dB) | 1.0         | 1.0         | 1.0         |
| 11AC VHT20 (Average) |             |             |             |
| Channel              | Channel 100 | Channel 116 | Channel 140 |
| Target (dBm)         | 13.0        | 14.0        | 13.0        |
| Tolerance $\pm$ (dB) | 1.0         | 1.0         | 1.0         |
| 11AC HT40 (Average)  |             |             |             |
| Channel              | Channel 102 | Channel 110 | Channel 134 |



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

Scan code to check authenticity



|                      |             |             |      |
|----------------------|-------------|-------------|------|
| Target (dBm)         | 12.0        | 12.0        | 12.0 |
| Tolerance $\pm$ (dB) | 1.0         | 1.0         | 1.0  |
| 11AC VHT80 (Average) |             |             |      |
| Channel              | Channel 106 | Channel 122 |      |
| Target (dBm)         | 13.0        | 13.0        |      |
| Tolerance $\pm$ (dB) | 1.0         | 1.0         |      |

## [5.8G WIFI]

| 11A (Average)    |             |             |             |
|------------------|-------------|-------------|-------------|
| Channel          | Channel 149 | Channel 157 | Channel 165 |
| Target (dBm)     | 12.0        | 12.0        | 12.0        |
| Tolerance ±(dB)  | 1.0         | 1.0         | 1.0         |
| 11N20 (Average)  |             |             |             |
| Channel          | Channel 149 | Channel 157 | Channel 165 |
| Target (dBm)     | 12.0        | 12.0        | 12.0        |
| Tolerance ±(dB)  | 1.0         | 1.0         | 1.0         |
| 11N40 (Average)  |             |             |             |
| Channel          | Channel 151 | Channel 159 |             |
| Target (dBm)     | 12.0        | 12.0        |             |
| Tolerance ±(dB)  | 1.0         | 1.0         |             |
| 11AC20 (Average) |             |             |             |
| Channel          | Channel 149 | Channel 157 | Channel 165 |
| Target (dBm)     | 12.0        | 12.0        | 13.0        |
| Tolerance ±(dB)  | 1.0         | 1.0         | 1.0         |
| 11AC40 (Average) |             |             |             |
| Channel          | Channe151   | Channel 159 |             |
| Target (dBm)     | 12.0        | 12.0        |             |
| Tolerance ±(dB)  | 1.0         | 1.0         |             |
| 11AC80 (Average) |             |             |             |
| Channel          | Channe155   |             |             |
| Target (dBm)     | 13.0        |             |             |
| Tolerance ±(dB)  | 1.0         |             |             |



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

Scan code to check authenticity



## 7. Measurement Results

### 7.1 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.

#### [2.4G WIFI]

| Modulation Type   | Output power |         | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) | MPE ratios <sup>1</sup> |
|-------------------|--------------|---------|--------------------|-----------------------|---------------------------|----------------------------------|-------------------------|
|                   | dBm          | mW      |                    |                       |                           |                                  |                         |
| IEEE 802.11b      | 16.0         | 39.8107 | 3.60               | 2.2909                | 0.0182                    | 1.0000                           | 0.0182                  |
| IEEE 802.11g      | 15.0         | 31.6228 | 3.60               | 2.2909                | 0.0144                    | 1.0000                           | 0.0144                  |
| IEEE 802.11n HT20 | 14.0         | 25.1189 | 3.60               | 2.2909                | 0.0115                    | 1.0000                           | 0.0115                  |
| IEEE 802.11n HT40 | 14.0         | 25.1189 | 3.60               | 2.2909                | 0.0115                    | 1.0000                           | 0.0115                  |

#### [5.2G WIFI]

| Modulation Type     | Output power |         | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) | MPE ratios <sup>1</sup> |
|---------------------|--------------|---------|--------------------|-----------------------|---------------------------|----------------------------------|-------------------------|
|                     | dBm          | mW      |                    |                       |                           |                                  |                         |
| IEEE 802.11a        | 13.0         | 19.9526 | 3.71               | 2.3496                | 0.0093                    | 1.0000                           | 0.0093                  |
| IEEE 802.11n HT20   | 13.0         | 19.9526 | 3.71               | 2.3496                | 0.0093                    | 1.0000                           | 0.0093                  |
| IEEE 802.11n HT40   | 13.0         | 19.9526 | 3.71               | 2.3496                | 0.0093                    | 1.0000                           | 0.0093                  |
| IEEE 802.11ac VHT20 | 14.0         | 25.1189 | 3.71               | 2.3496                | 0.0117                    | 1.0000                           | 0.0117                  |
| IEEE 802.11ac VHT40 | 12.0         | 15.8489 | 3.71               | 2.3496                | 0.0074                    | 1.0000                           | 0.0074                  |
| IEEE 802.11ac VHT80 | 12.0         | 15.8489 | 3.71               | 2.3496                | 0.0074                    | 1.0000                           | 0.0074                  |

#### [5.3G WIFI]

| Band/Mode           | RF output power |         | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) | MPE ratios <sup>1</sup> |
|---------------------|-----------------|---------|--------------------|-----------------------|---------------------------|----------------------------------|-------------------------|
|                     | dBm             | mW      |                    |                       |                           |                                  |                         |
| IEEE 802.11a        | 15.0            | 31.6228 | 3.71               | 2.3496                | 0.0148                    | 1.0000                           | 0.0148                  |
| IEEE 802.11n HT20   | 15.0            | 31.6228 | 3.71               | 2.3496                | 0.0148                    | 1.0000                           | 0.0148                  |
| IEEE 802.11n HT40   | 14.0            | 25.1189 | 3.71               | 2.3496                | 0.0117                    | 1.0000                           | 0.0117                  |
| IEEE 802.11ac VHT20 | 15.0            | 31.6228 | 3.71               | 2.3496                | 0.0148                    | 1.0000                           | 0.0148                  |
| IEEE 802.11ac VHT40 | 14.0            | 25.1189 | 3.71               | 2.3496                | 0.0117                    | 1.0000                           | 0.0117                  |
| IEEE 802.11ac VHT80 | 13.0            | 19.9526 | 3.71               | 2.3496                | 0.0093                    | 1.0000                           | 0.0093                  |

#### [5.5G WIFI]

| Band/Mode           | RF output power |         | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) | MPE ratios <sup>1</sup> |
|---------------------|-----------------|---------|--------------------|-----------------------|---------------------------|----------------------------------|-------------------------|
|                     | dBm             | mW      |                    |                       |                           |                                  |                         |
| IEEE 802.11a        | 14.0            | 25.1189 | 3.71               | 2.3496                | 0.0117                    | 1.0000                           | 0.0117                  |
| IEEE 802.11n HT20   | 14.0            | 25.1189 | 3.71               | 2.3496                | 0.0117                    | 1.0000                           | 0.0117                  |
| IEEE 802.11n HT40   | 13.0            | 19.9526 | 3.71               | 2.3496                | 0.0093                    | 1.0000                           | 0.0093                  |
| IEEE 802.11ac VHT20 | 15.0            | 31.6228 | 3.71               | 2.3496                | 0.0148                    | 1.0000                           | 0.0148                  |
| IEEE 802.11ac VHT40 | 13.0            | 19.9526 | 3.71               | 2.3496                | 0.0093                    | 1.0000                           | 0.0093                  |
| IEEE 802.11ac VHT80 | 14.0            | 25.1189 | 3.71               | 2.3496                | 0.0117                    | 1.0000                           | 0.0117                  |





[5.8G WIFI]

| Modulation Type     | Output power |         | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm2) | MPE Limits (mW/cm2) | MPE ratios1 |
|---------------------|--------------|---------|--------------------|-----------------------|--------------|---------------------|-------------|
|                     | dBm          | mW      |                    |                       |              |                     |             |
| IEEE 802.11a        | 13.0         | 19.9526 | 3.71               | 2.3496                | 0.0093       | 1.0000              | 0.0093      |
| IEEE 802.11n HT20   | 13.0         | 19.9526 | 3.71               | 2.3496                | 0.0093       | 1.0000              | 0.0093      |
| IEEE 802.11n HT40   | 13.0         | 19.9526 | 3.71               | 2.3496                | 0.0093       | 1.0000              | 0.0093      |
| IEEE 802.11ac VHT20 | 14.0         | 25.1189 | 3.71               | 2.3496                | 0.0117       | 1.0000              | 0.0117      |
| IEEE 802.11ac VHT40 | 13.0         | 19.9526 | 3.71               | 2.3496                | 0.0093       | 1.0000              | 0.0093      |
| IEEE 802.11ac VHT80 | 14.0         | 25.1189 | 3.71               | 2.3496                | 0.0117       | 1.0000              | 0.0117      |

- 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.

7.2 Simultaneous Transmission MPE Evaluation

The sample support only one 2.4GWLAN&5.2G WLAN&5.3G WLAN &5.5G WLAN &5.8G WLAN, so no need consider simultaneous transmission;

8. Conclusion

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

9. 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.

10.Measurement Uncertainty

2.4GWLAN&5.2GWLAN&5.3GWLAN&5.5GWLAN&5.8GWLAN:

| Test Item    | Frequency Range | Uncertainty | Note |
|--------------|-----------------|-------------|------|
| Output power | 1GHz-40GHz      | ±0.57dB     | (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-----

