

# TEST REPORT

**Product Name** : Tablet PC  
**Brand Name** : Blackview  
**Model** : LINK 1 Kids  
**Series Model** : N/A  
**FCC ID** : 2BSW8-LINK1KIDS  
**Applicant** : **HONG KONG LELEGAO TECHNOLOGY CO.,LIMITED**  
**Address** : 19H Maxgrand Plaza, No.3 Tai Yau Street, San Po Kong,  
Kowloon, HongKong  
**Manufacturer** : **Shenzhen Doko Electronic Co., LTD**  
**Address** : 801, Building3, 7th Industrial Zone, Yulv Community, Yutang  
Road, Guangming District, Shenzhen, China  
**Standard(s)** : FCC CFR Title 47 Part 15 Subpart E Section 15.407  
**Date of Receipt** : Mar. 05, 2026  
**Date of Test** : Mar. 06, 2026~ Mar. 26, 2026  
**Issued Date** : Mar. 27, 2026

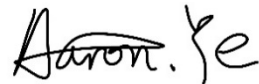
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Note: This device has been tested and found to comply with the standard(s) listed, this test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory. This report shall not be reproduced except in full, without the written approval of Guangdong Asia Hongke Test Technology Limited. If there is a need to alter or revise this document, the right belongs to Guangdong Asia Hongke Test Technology Limited, and it should give a prior written notice of the revision document. This test report must not be used by the client to claim product endorsement.

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**Report Revise Record**

| Report Version | Issued Date   | Notes           |
|----------------|---------------|-----------------|
| M0             | Mar. 27, 2026 | Initial Release |

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# 1 TEST SUMMARY

## 1.1 Test Standards

The tests were performed according to following standards:

[FCC Rules Part 15 Subpart E](#)—Unlicensed National Information Infrastructure Devices.

[ANSI C63.10: 2020](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB 662911 D01 Multiple Transmitter Output v02r01](#) is required to be used for this kind of FCC 15.407 Ull device.

## 1.2 Test Summary

| FCC Requirement                  |                                           |                       |
|----------------------------------|-------------------------------------------|-----------------------|
| FCC Part 15.207                  | AC Power Conducted Emission               | PASS                  |
| FCC Part 15.407(a)               | Emission Bandwidth(26dB Bandwidth)        | PASS <sub>Note1</sub> |
| FCC Part 15.407(e)               | Minimum Emission Bandwidth(6dB Bandwidth) | PASS <sub>Note2</sub> |
| FCC Part 15.407(a)               | Maximum Conducted Output Power            | PASS                  |
| FCC Part 15.407(a)               | Peak Power Spectral Density               | PASS                  |
| FCC Part 15.407(g)               | Frequency Stability                       | PASS                  |
| FCC Part 15.407(b)               | Undesirable emission                      | PASS                  |
| FCC Part 15.407(b)/15.205/15.209 | Radiated Emissions                        | PASS                  |
| FCC Part 15.203                  | Antenna Requirement                       | PASS                  |

Note 1: Apply to Band1, Band2A, Band2C only.

Note 2: Apply to band3 only.

## 1.3 Test Facility

### Test Laboratory:

#### Guangdong Asia Hongke Test Technology Limited

B1/F, Building 11, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

The test facility is recognized, certified or accredited by the following organizations:

#### FCC-Registration No.: 251906 Designation Number: CN1376

Guangdong Asia Hongke Test Technology Limited has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

#### IC —Registration No.: 31737 CAB identifier: CN0165

The 3m Semi-anechoic chamber of Guangdong Asia Hongke Test Technology Limited has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 31737

#### A2LA-Lab Cert. No.: 7133.01

Guangdong Asia Hongke Test Technology Limited has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

## 1.4 Measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Guangdong Asia Hongke Test Technology Limited's quality system according to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Asia Hongke laboratory is reported:

| Test                          | Measurement Uncertainty   | Notes |
|-------------------------------|---------------------------|-------|
| Power Line Conducted Emission | 9KHz~30MHz $\pm 1.20$ dB  | (1)   |
| Radiated Emission             | 9KHz~30MHz $\pm 3.10$ dB  | (1)   |
| Radiated Emission             | 30MHz~1GHz $\pm 3.75$ dB  | (1)   |
| Radiated Emission             | 1GHz~18GHz $\pm 3.88$ dB  | (1)   |
| Radiated Emission             | 18GHz~40GHz $\pm 3.88$ dB | (1)   |
| RF power, conducted           | 30MHz~6GHz $\pm 0.16$ dB  | (1)   |
| RF power density, conducted   | $\pm 0.24$ dB             | (1)   |
| Spurious emissions, conducted | $\pm 0.21$ dB             | (1)   |
| Temperature                   | $\pm 1^{\circ}\text{C}$   | (1)   |
| Humidity                      | $\pm 3\%$                 | (1)   |
| DC and low frequency voltages | $\pm 1.5\%$               | (1)   |
| Time                          | $\pm 2\%$                 | (1)   |
| Duty cycle                    | $\pm 2\%$                 | (1)   |

The report uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty Multiplied by a coverage factor of  $k=2$  , providing a level of confidence of approximately 95%

## 2 GENERAL INFORMATION

### 2.1 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

|                     |         |
|---------------------|---------|
| Normal Temperature: | 25°C    |
| Relative Humidity:  | 55 %    |
| Air Pressure:       | 101 kPa |

### 2.2 General Description of EUT

|                                                                                                                                                                                      |                                                                                   |                                 |              |               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------|--------------|---------------|
| Product Name:                                                                                                                                                                        | Tablet PC                                                                         |                                 |              |               |
| Model/Type reference:                                                                                                                                                                | LINK 1 Kids                                                                       |                                 |              |               |
| Serial Model:                                                                                                                                                                        | N/A                                                                               |                                 |              |               |
| Power Supply:                                                                                                                                                                        | DC 5V from adapter<br>DC 3.85V from Rechargeable Li-ion battery                   |                                 |              |               |
| Adapter information:                                                                                                                                                                 | Model: QZ-01004AA00<br>Input: 100-240V AC50/60Hz 0.3A<br>Output: 5.0V=2.0A(10.0W) |                                 |              |               |
| Hardware Version:                                                                                                                                                                    | W30S-RK3562-V1.0                                                                  |                                 |              |               |
| Software Version:                                                                                                                                                                    | LINK_1_Kids_NEU_W30_V1.0_A16                                                      |                                 |              |               |
| Sample(s) Status:                                                                                                                                                                    | AiTSZ-260305084-1(Normal sample)<br>AiTSZ-260305084-2(Engineer sample)            |                                 |              |               |
| 5G WIFI:                                                                                                                                                                             |                                                                                   |                                 |              |               |
| Supported type:                                                                                                                                                                      | 20MHz system                                                                      | 40MHz system                    | 80MHz system | 160MHz system |
|                                                                                                                                                                                      | 802.11a<br>802.11n<br>802.11ac<br>802.11ax                                        | 802.11n<br>802.11ac<br>802.11ax | N/A          | N/A           |
| Operation frequency:                                                                                                                                                                 | 5180-5240MHz<br>5745-5825MHz                                                      | 5190-5230MHz<br>5755-5795MHz    | N/A          | N/A           |
| Modulation:                                                                                                                                                                          | OFDM/OFDMA                                                                        | OFDM/OFDMA                      | N/A          | N/A           |
| Channel number:                                                                                                                                                                      | 9                                                                                 | 4                               | N/A          | N/A           |
| Channel separation:                                                                                                                                                                  | 20MHz                                                                             | 40MHz                           | N/A          | N/A           |
| Antenna type:                                                                                                                                                                        | PIFA Antenna                                                                      |                                 |              |               |
| Antenna gain:                                                                                                                                                                        | 1.91dBi                                                                           |                                 |              |               |
| Remark:<br>The above DUT's information was declared by manufacturer. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual. |                                                                                   |                                 |              |               |

## 2.3 Description of Test Modes and Test Frequency

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting (Duty Cycle more than 98%) and receiving mode for testing.

All test performed at the low, middle and high of operational frequency range of each mode.

### .Operation Frequency List:

| Operating band               | 20MHz   |                 | 40MHz   |                 |
|------------------------------|---------|-----------------|---------|-----------------|
|                              | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| U-NII 1<br>(5150MHz-5250MHz) | 36      | 5180            | 38      | 5190            |
|                              | 40      | 5200            |         |                 |
|                              | 44      | 5220            | 46      | 5230            |
|                              | 48      | 5240            |         |                 |
| U-NII 3<br>(5725MHz-5850MHz) | 149     | 5745            | 151     | 5755            |
|                              | 153     | 5765            |         |                 |
|                              | 157     | 5785            | 159     | 5795            |
|                              | 161     | 5805            |         |                 |
|                              | 165     | 5825            | --      | --              |

Note:

1. "--Means no channel(s) available any more.
2. The line display in grey is those Channels/Frequencies select to test in this report for each operation mode.

### Data Rate Used:

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

| Test Items                                 | Mode                 | Data Rate |
|--------------------------------------------|----------------------|-----------|
| Maximum Conducted Output Power             | 802.11a SISO         | 6Mbps     |
| Power Spectral Density                     | 802.11n(HT20) SISO   | MCS0      |
| Emission Bandwidth(26dBm Bandwidth)        | 802.11n(HT40) SISO   | MCS0      |
| Minimum Emission Bandwidth(6dBm Bandwidth) | 802.11ac(VHT20) SISO | MCS0      |
| Undesirable emission                       | 802.11ac(VHT40) SISO | MCS0      |
| Frequency Stability                        | 802.11ax(HEW20) SISO | MCS0      |
|                                            | 802.11ax(HEW40) SISO | MCS0      |

### Power setting during the test:

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power Parameters:

| Test Software Version | Engineering Mode |         |         |
|-----------------------|------------------|---------|---------|
| Test Frequency        | Lowest           | Middle  | Highest |
| UNII Band 1           | Default          | Default | Default |
| UNII Band 3           | Default          | Default | Default |

## 2.4 Special Accessories

Follow auxiliary equipment(s) test with EUT that provided by the manufacturer or laboratory is listed as follow:

| Description | Manufacturer | Model | Serial No. | Provided by | Other |
|-------------|--------------|-------|------------|-------------|-------|
| /           | /            | /     | /          | /           | /     |
| /           | /            | /     | /          | /           | /     |

## 2.5 Equipment List for the Test

| Conducted Emission measurement        |                   |              |           |             |            |            |
|---------------------------------------|-------------------|--------------|-----------|-------------|------------|------------|
| Item                                  | Test Equipment    | Manufacturer | Model No. | Serial No.  | Last Cal.  | Cal.Due    |
| <input checked="" type="checkbox"/> 1 | EMI Test Receiver | R&S          | ESPI      | 100771      | 2025.09.23 | 2026.09.22 |
| <input checked="" type="checkbox"/> 2 | LISN              | R&S          | NNLK 8129 | 8130179     | 2025.09.23 | 2026.09.22 |
| <input checked="" type="checkbox"/> 3 | ISN               | TESEQ        | T800      | 29429       | 2025.09.23 | 2026.09.22 |
| <input checked="" type="checkbox"/> 4 | Pulse Limiter     | R&S          | ESH3-Z2   | 102789      | 2025.09.23 | 2026.09.22 |
| <input checked="" type="checkbox"/> 5 | CE Software       | EZ           | EZ-EMC_CE | Ver.AIT-03A | N/A        | N/A        |

| Radiation Emission measurement         |                                     |              |                 |                 |            |            |
|----------------------------------------|-------------------------------------|--------------|-----------------|-----------------|------------|------------|
| Item                                   | Test Equipment                      | Manufacturer | Model No.       | Serial No.      | Last Cal.  | Cal.Due    |
| <input checked="" type="checkbox"/> 1  | EMI Measuring Receiver              | R&S          | ESR             | 101160          | 2025.09.23 | 2026.09.22 |
| <input checked="" type="checkbox"/> 2  | Low Noise Pre Amplifier             | SCHWARZBECK  | BBV 9745        | 00282           | 2025.09.23 | 2026.09.22 |
| <input checked="" type="checkbox"/> 3  | Low Noise Pre Amplifier             | CESHENG      | CSKJLNA231 016A | CSKJLNA23 1016A | 2025.09.23 | 2026.09.22 |
| <input checked="" type="checkbox"/> 4  | Spectrum Analyzer                   | R&S          | FSV40           | 101470          | 2025.09.23 | 2026.09.22 |
| <input checked="" type="checkbox"/> 5  | Passive Loop                        | ETS          | 6512            | 00165355        | 2024.08.29 | 2026.08.28 |
| <input checked="" type="checkbox"/> 6  | TRILOG Super Broadband test Antenna | SCHWARZBECK  | VULB9168        | 01434           | 2024.08.29 | 2027.08.28 |
| <input checked="" type="checkbox"/> 7  | Broadband Horn Antenna              | Schwarzbeck  | BBHA 9120D      | 452             | 2024.08.29 | 2027.08.28 |
| <input checked="" type="checkbox"/> 8  | Horn Antenna 15-40GHz               | SCHWARZBECK  | BBHA9170        | BBHA91703 67    | 2024.08.28 | 2027.08.27 |
| <input checked="" type="checkbox"/> 9  | 6dB Attenuator                      | JFW          | 50FPE-006       | 4360846-949-1   | 2025.09.23 | 2026.09.22 |
| <input checked="" type="checkbox"/> 10 | RE Software                         | EZ           | EZ-EMC_RE       | Ver.AIT-03A     | N/A        | N/A        |

| RF Conducted measurement              |                                     |              |              |                |            |            |
|---------------------------------------|-------------------------------------|--------------|--------------|----------------|------------|------------|
| Item                                  | Test Equipment                      | Manufacturer | Model No.    | Serial No.     | Last Cal.  | Cal.Due    |
| <input checked="" type="checkbox"/> 1 | Spectrum Analyzer                   | Agilent      | N9020A       | MY53421570     | 2025.09.23 | 2026.09.22 |
| <input type="checkbox"/> 2            | Power Sensor                        | Agilent      | U2021XA      | MY54110007     | 2025.09.23 | 2026.09.22 |
| <input type="checkbox"/> 3            | Vector Signal Generator             | Agilent      | N5182A       | MY50143009     | 2025.09.23 | 2026.09.22 |
| <input type="checkbox"/> 4            | Analog signal generator             | Agilent      | E8257        | MY51554256     | 2025.09.23 | 2026.09.22 |
| <input type="checkbox"/> 5            | Const Temp. & Humidity Chamber      | Eastlab      | YH-HW-408L   | 23051109       | 2025.09.23 | 2026.09.22 |
| <input type="checkbox"/> 6            | Wideband Radio communication tester | R&S          | CMW500       | 1201.0002K50   | 2025.09.23 | 2026.09.22 |
| <input checked="" type="checkbox"/> 7 | DC power supply                     | ZHAOXIN      | RXN-305D-2   | 28070002559    | 2025.09.23 | 2026.09.22 |
| <input type="checkbox"/> 8            | RF Test box                         | TST          | TSTPASS      | 21033016       | 2025.09.23 | 2026.09.22 |
| <input checked="" type="checkbox"/> 9 | RF Software                         | TST          | TSTPASS      | Version 2.0    | N/A        | N/A        |
| <input type="checkbox"/> 10           | RF Software                         | Cesheng      | WCN Regulary | Ver 25.03.2901 | N/A        | N/A        |

Note: ☐ is not applicable in this Test Report. ☒ is applicable in this Test Report.

### 3 TEST CONDITIONS AND RESULTS

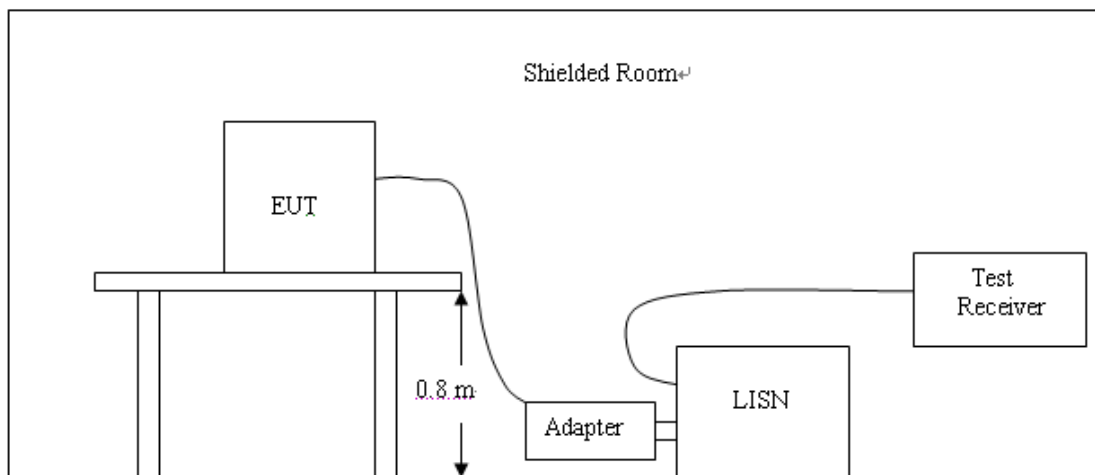
#### 3.1 Conducted Emissions Test

##### LIMIT

| Frequency range (MHz) | Limit (dBuV) |           |
|-----------------------|--------------|-----------|
|                       | Quasi-peak   | Average   |
| 0.15-0.5              | 66 to 56*    | 56 to 46* |
| 0.5-5                 | 56           | 46        |
| 5-30                  | 60           | 50        |

\* Decreases with the logarithm of the frequency.

##### TEST CONFIGURATION

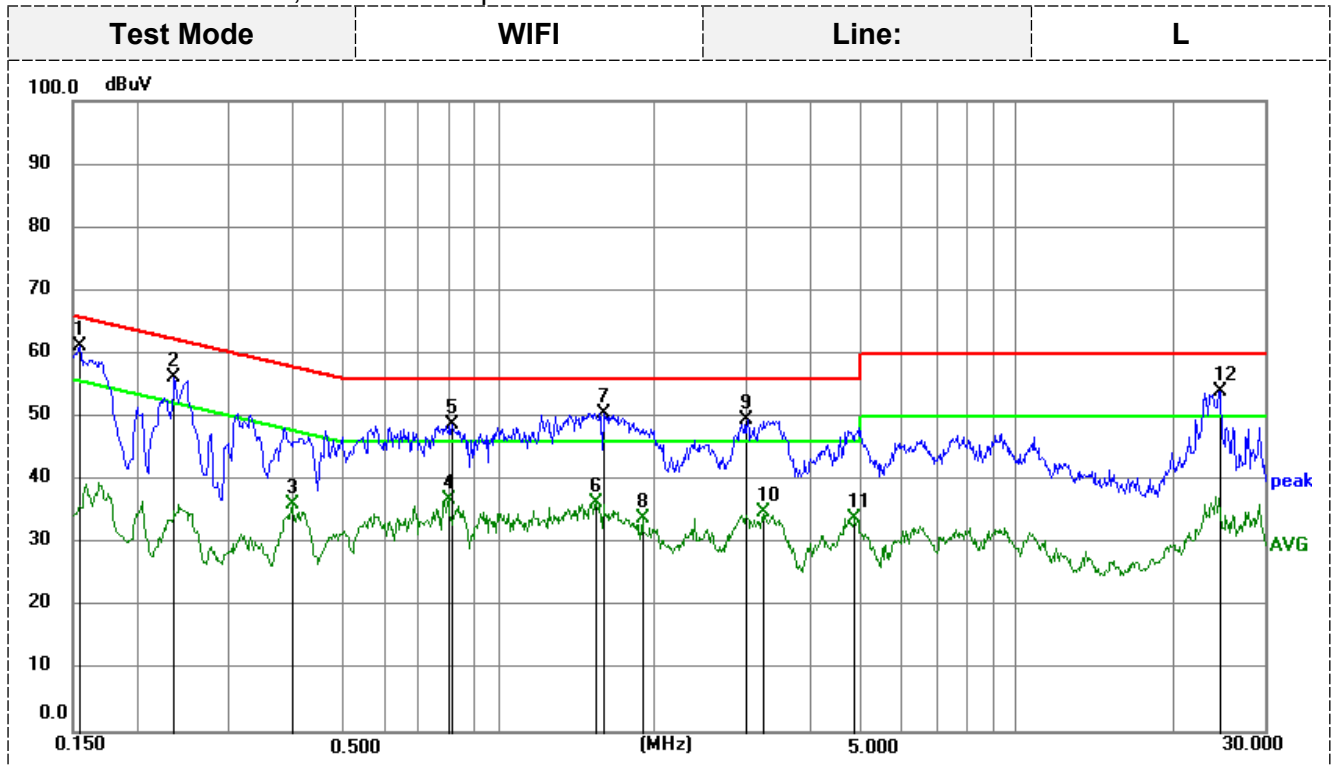


##### TEST PROCEDURE

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10:2020.
2. Support equipment, if needed, was placed as per ANSI C63.10:2020.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2020.
4. The adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.

## TEST RESULTS

1. Pre-scan all WIFI operation modes at Low, Middle, and High channel; only the worst result of was reported as below:
2. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:

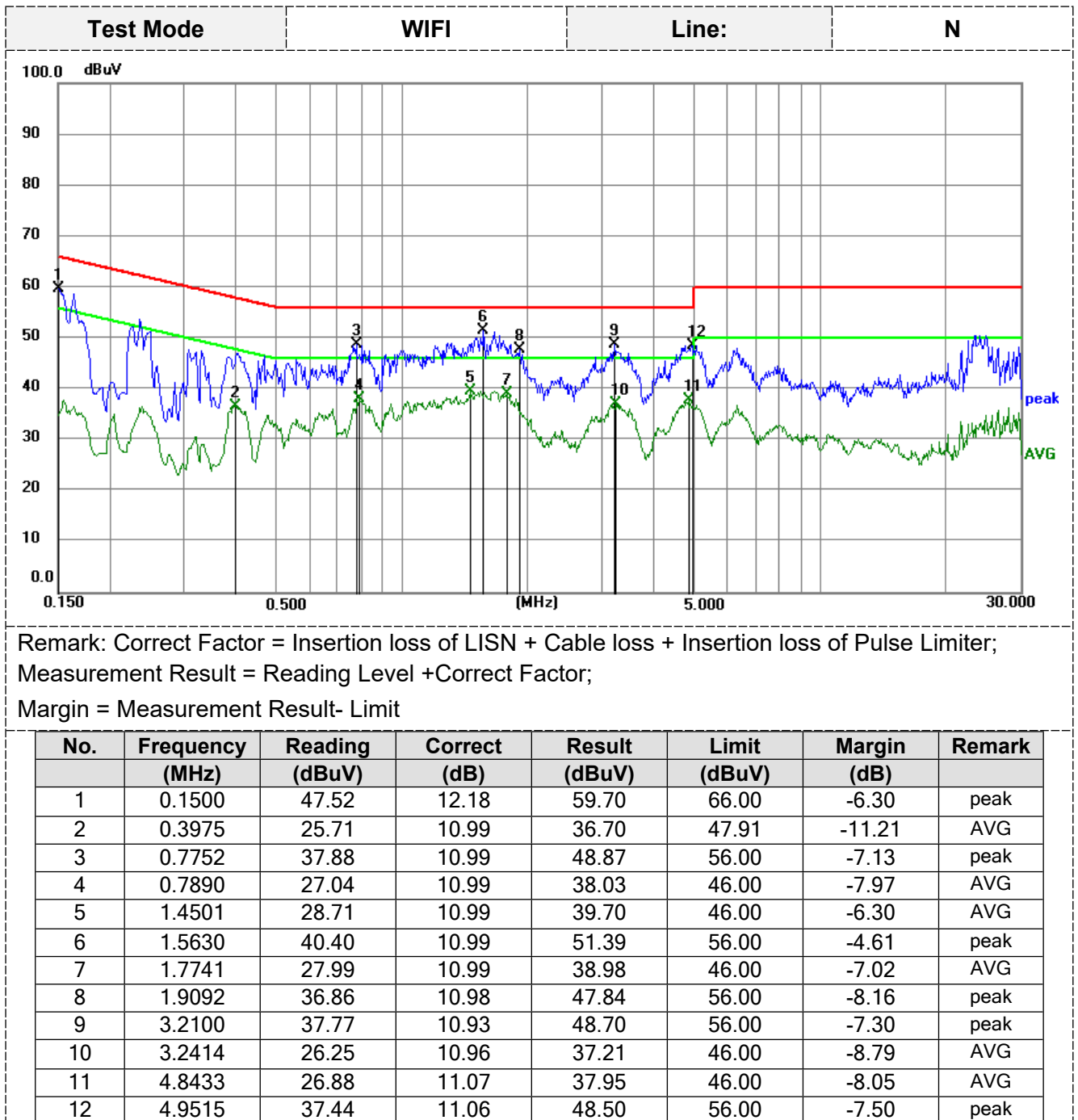


Remark: Correct Factor = Insertion loss of LISN + Cable loss + Insertion loss of Pulse Limiter;

Measurement Result = Reading Level + Correct Factor;

Margin = Measurement Result - Limit

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------|------------------|-----------------|----------------|--------|
| 1   | 0.1544             | 49.41             | 11.77           | 61.18            | 65.76           | -4.58          | peak   |
| 2   | 0.2353             | 45.17             | 11.06           | 56.23            | 62.26           | -6.03          | peak   |
| 3   | 0.3975             | 24.93             | 11.06           | 35.99            | 47.91           | -11.92         | AVG    |
| 4   | 0.7980             | 25.92             | 11.05           | 36.97            | 46.00           | -9.03          | AVG    |
| 5   | 0.8114             | 37.63             | 11.05           | 48.68            | 56.00           | -7.32          | peak   |
| 6   | 1.5360             | 25.29             | 11.05           | 36.34            | 46.00           | -9.66          | AVG    |
| 7   | 1.5900             | 39.52             | 11.05           | 50.57            | 56.00           | -5.43          | peak   |
| 8   | 1.8911             | 22.79             | 11.04           | 33.83            | 46.00           | -12.17         | AVG    |
| 9   | 3.0164             | 38.39             | 11.00           | 49.39            | 56.00           | -6.61          | peak   |
| 10  | 3.2550             | 23.70             | 11.04           | 34.74            | 46.00           | -11.26         | AVG    |
| 11  | 4.8704             | 22.64             | 11.14           | 33.78            | 46.00           | -12.22         | AVG    |
| 12  | 24.6660            | 41.65             | 12.34           | 53.99            | 60.00           | -6.01          | peak   |



## 3.2 Radiated Emissions and Band Edge

### Limit

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

#### Undesirable emission limits

| Requirement  | Limit(EIRP)     | Limit (Field strength at 3m) <sup>Note1</sup> |
|--------------|-----------------|-----------------------------------------------|
| 15.407(b)(1) | PK:-27(dBm/MHz) | PK:68.2(dBμV/m)                               |
| 15.407(b)(2) |                 |                                               |
| 15.407(b)(3) |                 |                                               |
| 15.407(b)(4) |                 |                                               |

Note1: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$

(5) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209

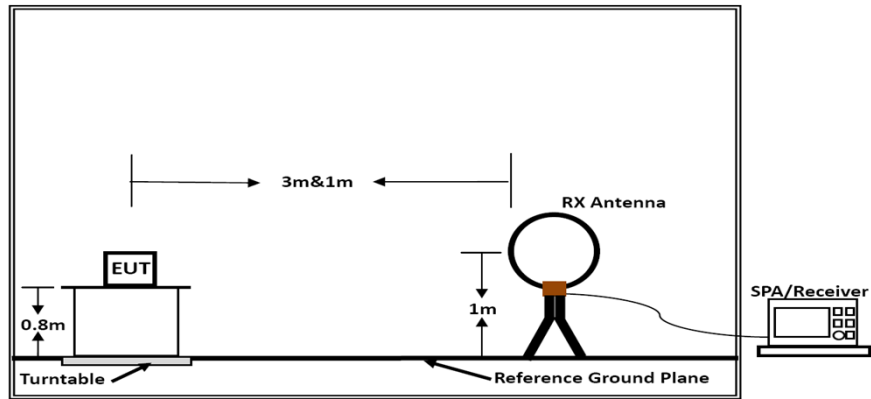
(6) In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

#### Radiated emission limits

| Frequency (MHz) | Distance (Meters) | Radiated (dBμV/m)                          | Radiated (μV/m)       |
|-----------------|-------------------|--------------------------------------------|-----------------------|
| 0.009-0.49      | 3                 | $20\log(2400/F(\text{KHz}))+40\log(300/3)$ | $2400/F(\text{KHz})$  |
| 0.49-1.705      | 3                 | $20\log(24000/F(\text{KHz}))+40\log(30/3)$ | $24000/F(\text{KHz})$ |
| 1.705-30        | 3                 | $20\log(30)+40\log(30/3)$                  | 30                    |
| 30-88           | 3                 | 40.0                                       | 100                   |
| 88-216          | 3                 | 43.5                                       | 150                   |
| 216-960         | 3                 | 46.0                                       | 200                   |
| Above 960       | 3                 | 54.0                                       | 500                   |

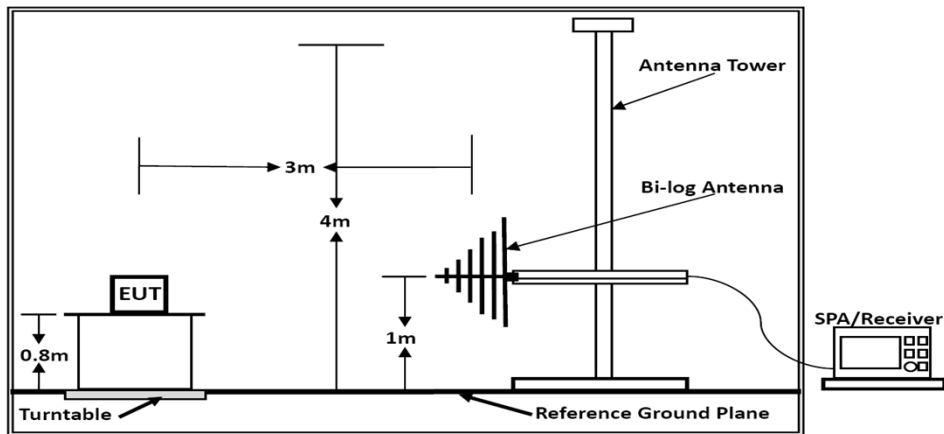
## TEST CONFIGURATION

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



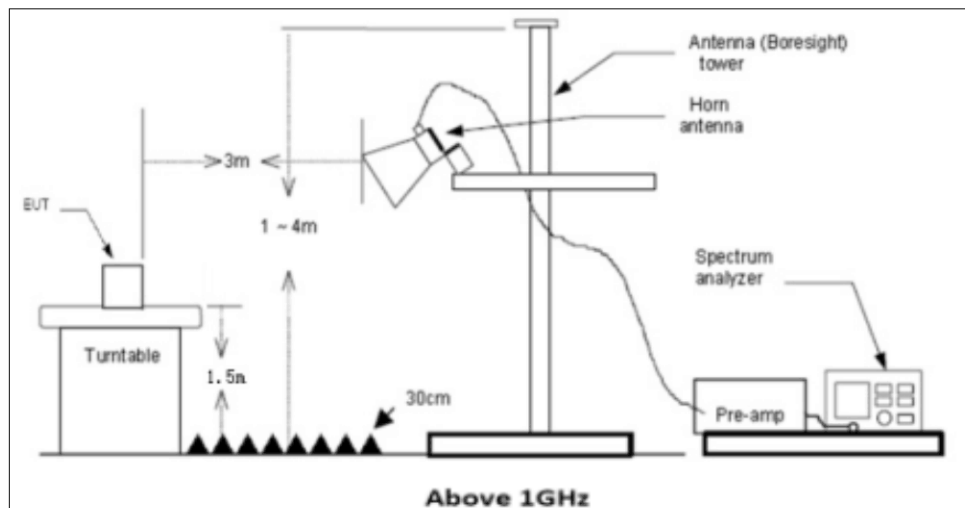
Below 30MHz

(B) Radiated Emission Test Set-Up, Frequency below 1000MHz



Below 1GHz

(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



Above 1GHz

## Test Procedure

- Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane, and above 1GHz measurement EUT was placed on a low permittivity and low loss tangent turn table which is 1.5m above ground plane.
- Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT
- And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- Repeat above procedures until all frequency measurements have been completed.
- Radiated emission test frequency band from 9KHz to 25GHz.
- The distance between test antenna and EUT as following table states:

| Test Frequency range | Test Antenna Type   | Test Distance |
|----------------------|---------------------|---------------|
| 9KHz-30MHz           | Active Loop Antenna | 3             |
| 30MHz-1GHz           | Bilog Antenna       | 3             |
| 1GHz-18GHz           | Horn Antenna        | 3             |
| 18GHz-25GHz          | Horn Antenna        | 1             |

- Setting test receiver/spectrum as following table states:

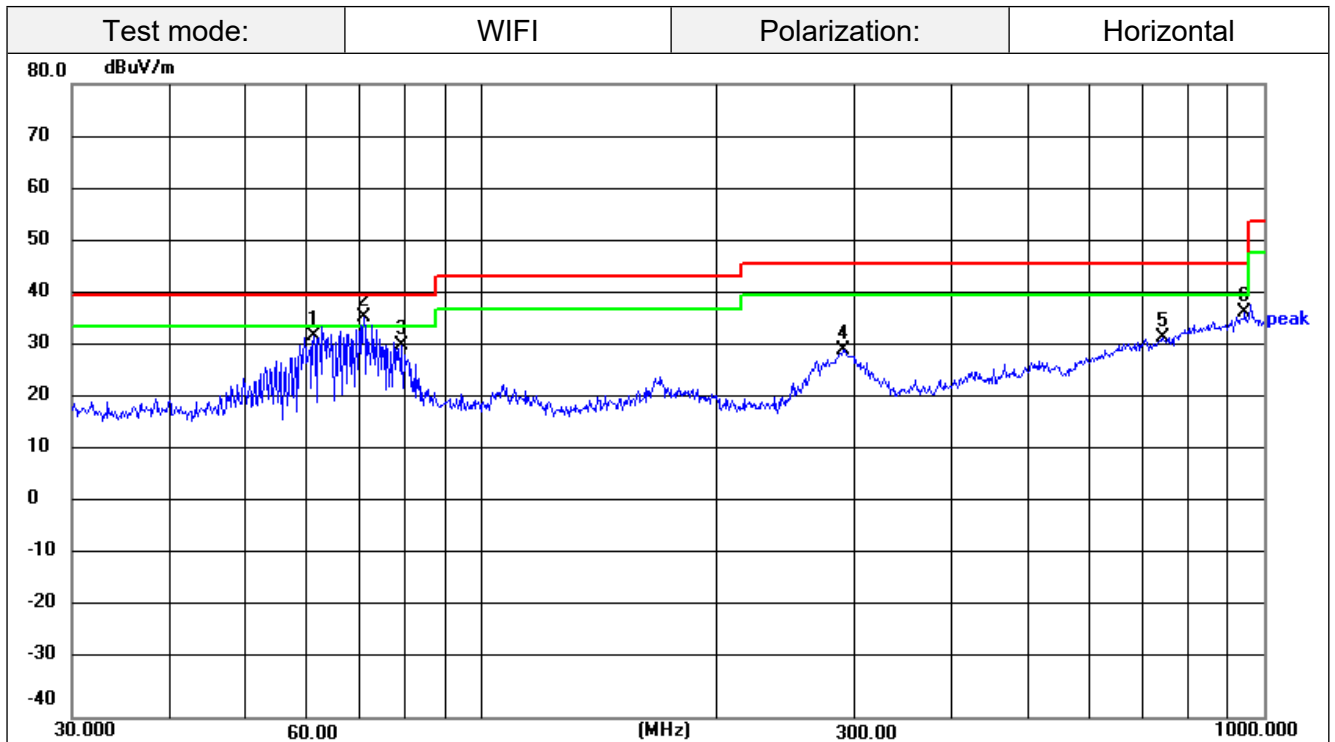
| Test Frequency range | Test Receiver/Spectrum Setting                                                                      | Detector |
|----------------------|-----------------------------------------------------------------------------------------------------|----------|
| 9KHz-150KHz          | RBW=200Hz/VBW=3KHz, Sweep time=Auto                                                                 | QP       |
| 150KHz-30MHz         | RBW=9KHz/VBW=100KHz, Sweep time=Auto                                                                | QP       |
| 30MHz-1GHz           | RBW=120KHz/VBW=1000KHz, Sweep time=Auto                                                             | QP       |
| 1GHz-40GHz           | Peak Value: RBW=1MHz/VBW=3MHz, Sweep time=Auto<br>Average Value: RBW=1MHz/VBW=10Hz, Sweep time=Auto | Peak     |

## TEST RESULTS

Remark:

- All WIFI operation modes have been tested for below 1GHz test, only the worst case 802.11a low channel of U-NII 1 band was recorded.
- All WIFI operation modes have been tested for above 1GHz test, only the worst case 802.11a was recorded.
- All WIFI operation modes have been tested for U-NII 3 bandedge test, only the worst case of 802.11n(HT40) mode was recorded.
- Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.

### For 30MHz-1GHz



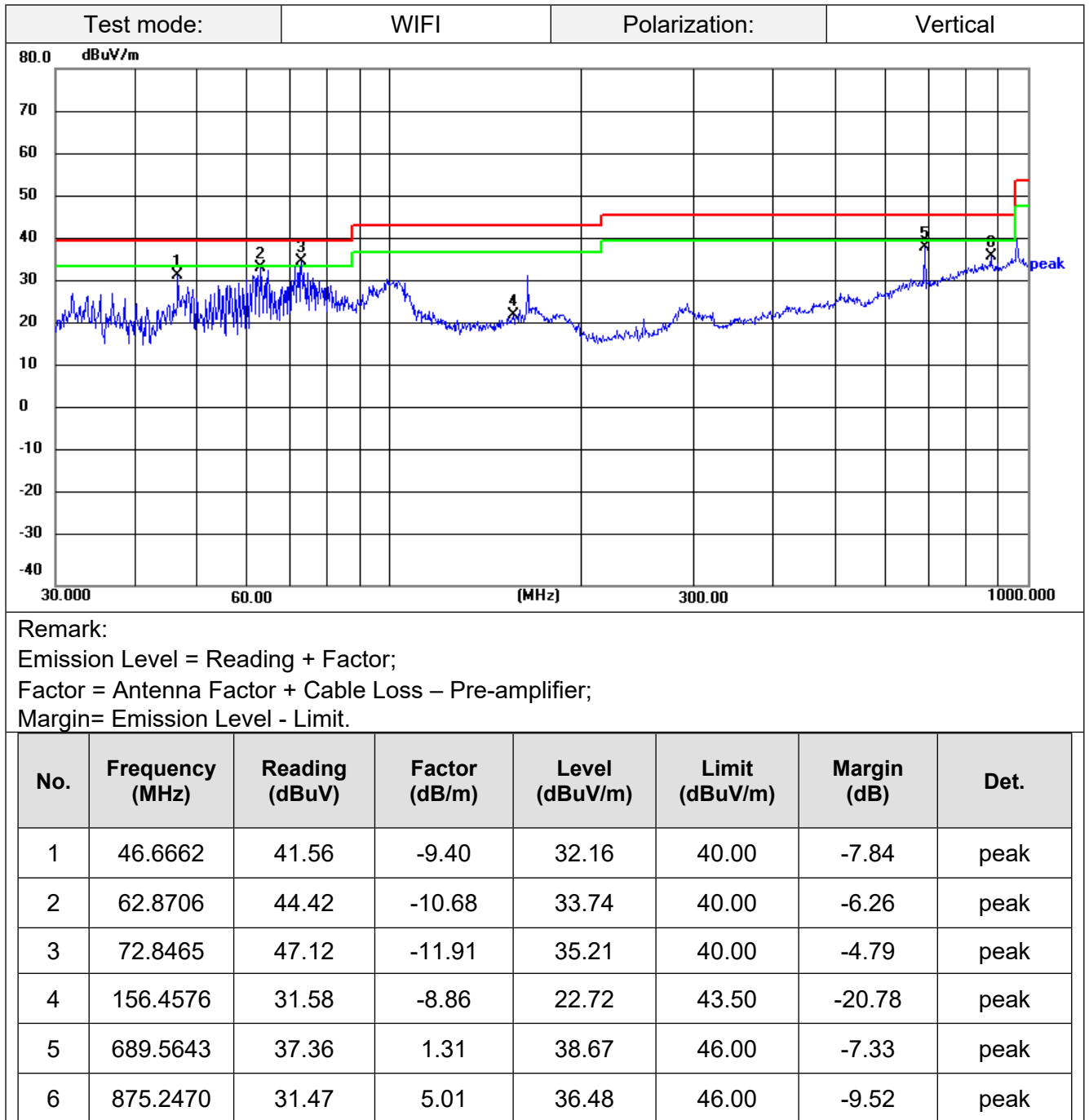
Remark:

Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 61.1315         | 42.68          | -10.43        | 32.25          | 40.00          | -7.75       | peak |
| 2   | 70.8315         | 47.29          | -11.52        | 35.77          | 40.00          | -4.23       | peak |
| 3   | 78.9651         | 43.84          | -13.19        | 30.65          | 40.00          | -9.35       | peak |
| 4   | 290.0172        | 37.70          | -8.01         | 29.69          | 46.00          | -16.31      | peak |
| 5   | 742.2586        | 29.58          | 2.51          | 32.09          | 46.00          | -13.91      | peak |
| 6   | 945.4400        | 30.92          | 5.81          | 36.73          | 46.00          | -9.27       | peak |



### For 1GHz to 40GHz

Remark: All WIFI operation modes have been tested for above 1GHz test, only the worst case 802.11a mode was recorded as below:

#### U-NII 1 @ 802.11a mode (above 1GHz)

| Tested Channel | Frequency (MHz) | Meter Reading (dBμV) | Factor (dB/m) | Emission Level (dBμV/m) | Limit (dBuV/m) | Margin (dB) | ANT Pol | Detector Mode |
|----------------|-----------------|----------------------|---------------|-------------------------|----------------|-------------|---------|---------------|
| 36 (5180MHz)   | 5150            | 55.07                | -6.33         | 48.74                   | 68.20          | -19.46      | V       | PK            |
|                | 10360           | 46.64                | 3.87          | 50.51                   | 68.20          | -17.69      | V       | PK            |
|                | --              | --                   | --            | --                      | --             | --          | --      | --            |
| 40 (5200MHz)   | 10400           | 48.07                | 4.22          | 52.29                   | 68.20          | -15.91      | V       | PK            |
|                | --              | --                   | --            | --                      | --             | --          | --      | --            |
| 48 (5240MHz)   | 5250.5          | 55.11                | -5.41         | 49.7                    | 68.20          | -18.50      | V       | PK            |
|                | 10480           | 52.19                | 3.77          | 55.96                   | 68.20          | -12.24      | V       | PK            |
|                | 10480.00        | 43.20                | 3.77          | 46.97                   | 54.00          | -7.03       | V       | AV            |

| Tested Channel | Frequency (MHz) | Meter Reading (dBμV) | Factor (dB/m) | Emission Level (dBμV/m) | Limit (dBuV/m) | Margin (dB) | ANT Pol | Detector Mode |
|----------------|-----------------|----------------------|---------------|-------------------------|----------------|-------------|---------|---------------|
| 36 (5180MHz)   | 5150            | 54.19                | -6.33         | 47.86                   | 68.20          | -20.34      | H       | PK            |
|                | 10360           | 46.03                | 3.87          | 49.90                   | 68.20          | -18.30      | H       | PK            |
|                | --              | --                   | --            | --                      | --             | --          | --      | --            |
| 40 (5200MHz)   | 10400           | 47.93                | 4.22          | 52.15                   | 68.20          | -16.05      | H       | PK            |
|                | --              | --                   | --            | --                      | --             | --          | --      | --            |
| 48 (5240MHz)   | 5250.5          | 54.81                | -5.41         | 49.40                   | 68.20          | -18.80      | H       | PK            |
|                | 10480           | 51.20                | 3.77          | 54.97                   | 68.20          | -13.23      | H       | PK            |
|                | 10480.00        | 42.39                | 3.77          | 46.16                   | 54.00          | -7.84       | H       | AV            |

#### REMARKS:

1. Emission level (dBuV/m) = Meter Reading (dBuV) + Factor (dB/m)
2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
3. Margin value = Emission level - Limit value.
4. --Other emission levels are attenuated 20dB below the limit and not recorded in report.
5. RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

**U-NII 3 @ 802.11a mode (above 1GHz)**

| Tested Channel   | Frequency (MHz) | Meter Reading (dBμV) | Factor (dB/m) | Emission Level (dBμV/m) | Limit (dBuV/m) | Margin (dB) | ANT Pol | Detector Mode |
|------------------|-----------------|----------------------|---------------|-------------------------|----------------|-------------|---------|---------------|
| 149<br>(5745MHz) | 11490           | 53.90                | 4.83          | 58.73                   | 68.20          | -9.47       | V       | PK            |
|                  | 11490           | 40.38                | 4.83          | 45.21                   | 54.00          | -8.79       | V       | AV            |
|                  | --              | --                   | --            | --                      | --             | --          | --      | --            |
| 157<br>(5785MHz) | 11570           | 54.54                | 5.45          | 59.99                   | 68.20          | -8.21       | V       | PK            |
|                  | 11570           | 40.83                | 5.45          | 46.28                   | 54.00          | -7.72       | V       | AV            |
|                  | --              | --                   | --            | --                      | --             | --          | --      | --            |
| 165<br>(5825MHz) | 11650           | 57.72                | 4.64          | 62.36                   | 68.20          | -5.84       | V       | PK            |
|                  | 11650           | 44.87                | 4.64          | 49.51                   | 54.00          | -4.49       | V       | AV            |
|                  | --              | --                   | --            | --                      | --             | --          | --      | --            |

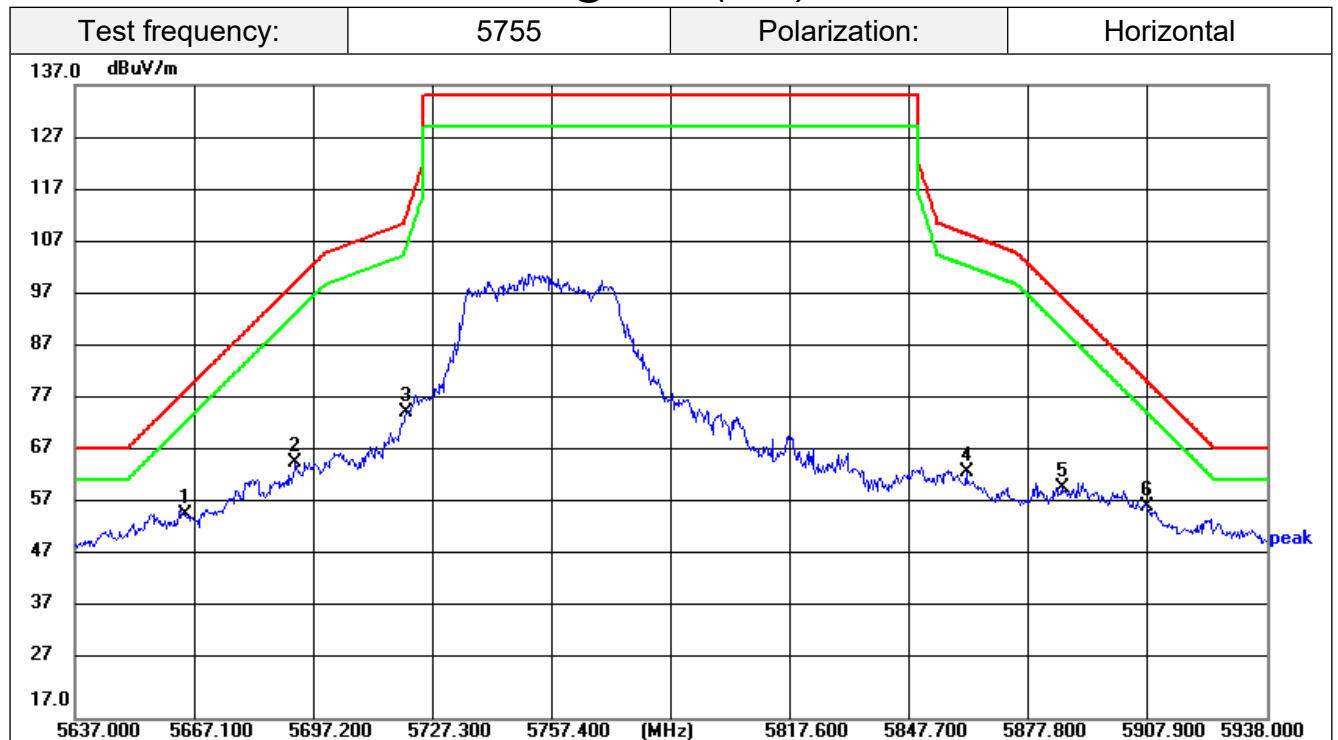
| Tested Channel   | Frequency (MHz) | Meter Reading (dBμV) | Factor (dB/m) | Emission Level (dBμV/m) | Limit (dBuV/m) | Margin (dB) | ANT Pol | Detector Mode |
|------------------|-----------------|----------------------|---------------|-------------------------|----------------|-------------|---------|---------------|
| 149<br>(5745MHz) | 11490           | 52.79                | 4.83          | 57.62                   | 68.20          | -10.58      | H       | PK            |
|                  | 11490           | 39.26                | 4.83          | 44.09                   | 54.00          | -9.91       | H       | AV            |
|                  | --              | --                   | --            | --                      | --             | --          | --      | --            |
| 157<br>(5785MHz) | 11570           | 53.71                | 5.45          | 59.16                   | 68.20          | -9.04       | H       | PK            |
|                  | 11570           | 40.73                | 5.45          | 46.18                   | 54.00          | -7.82       | H       | AV            |
|                  | --              | --                   | --            | --                      | --             | --          | --      | --            |
| 165<br>(5825MHz) | 11650           | 57.27                | 4.64          | 61.91                   | 68.20          | -6.29       | H       | PK            |
|                  | 11650           | 44.72                | 4.64          | 49.36                   | 54.00          | -4.64       | H       | AV            |
|                  | --              | --                   | --            | --                      | --             | --          | --      | --            |

**REMARKS:**

1. Emission level (dBuV/m) = Meter Reading (dBμV) + Factor (dB/m)
2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
3. Margin value = Emission level - Limit value.
4. --Other emission levels are attenuated 20dB below the limit and not recorded in report.
5. RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

# Band Edge Test Plots of U-NII 3

## U-NII 3 @ 802.11n(HT40) mode



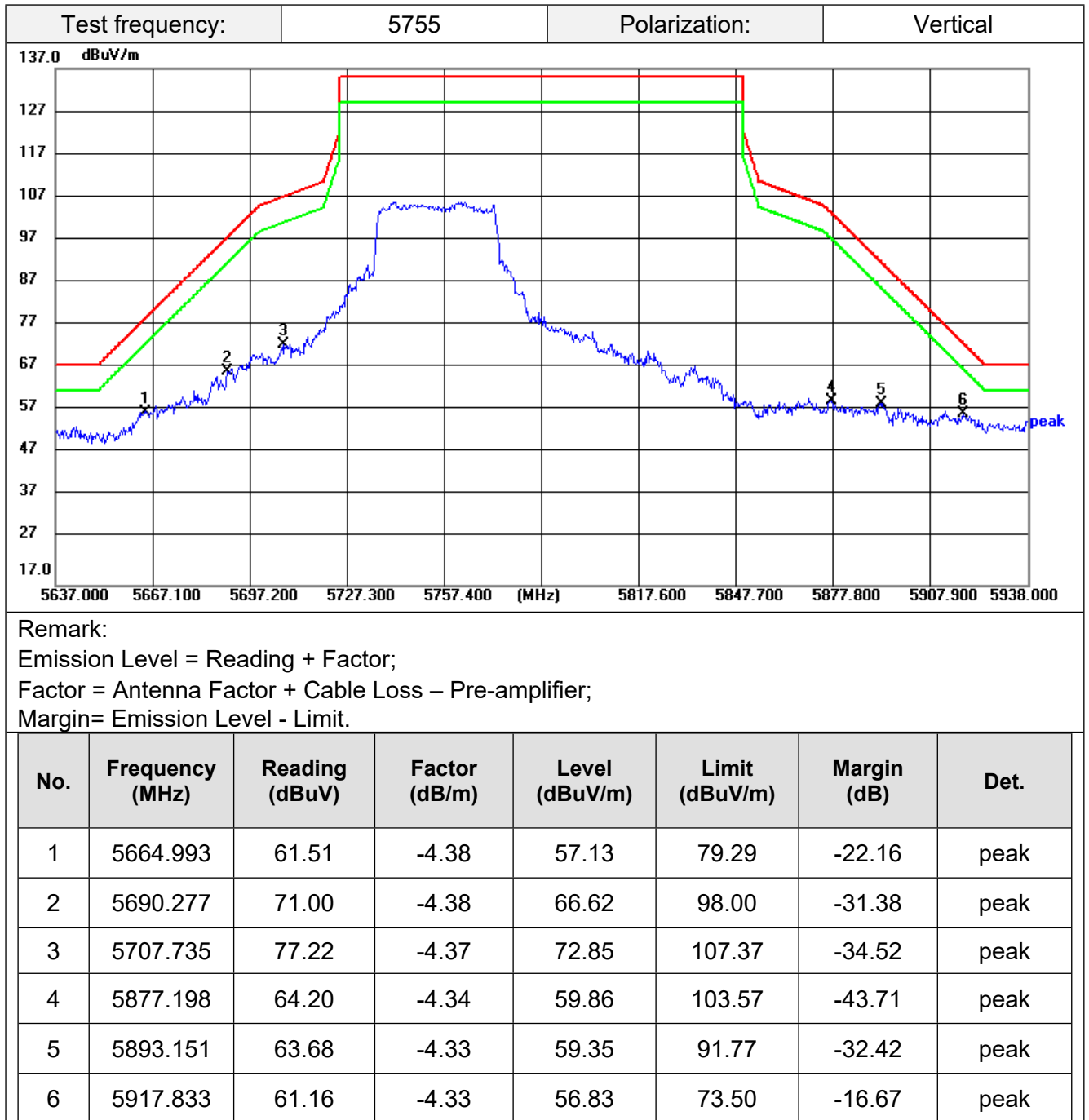
Remark:

Emission Level = Reading + Factor;

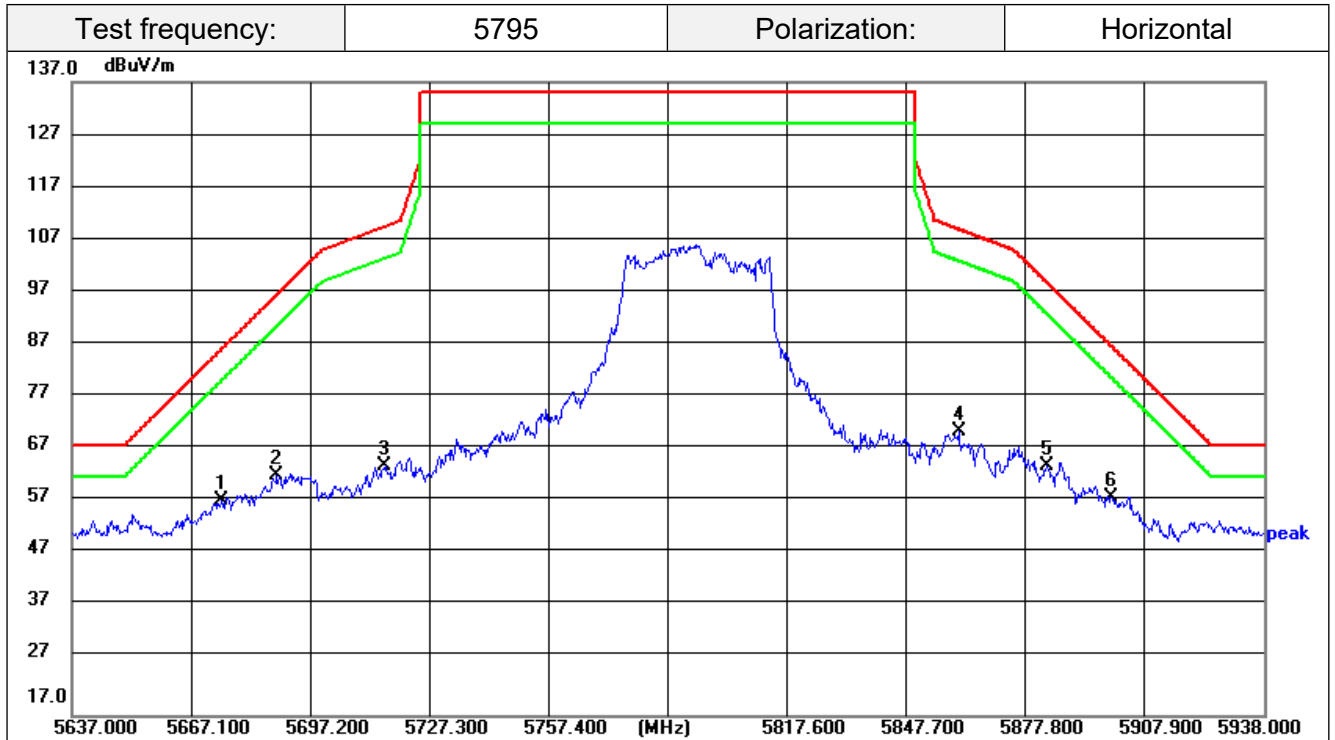
Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin= Emission Level - Limit.

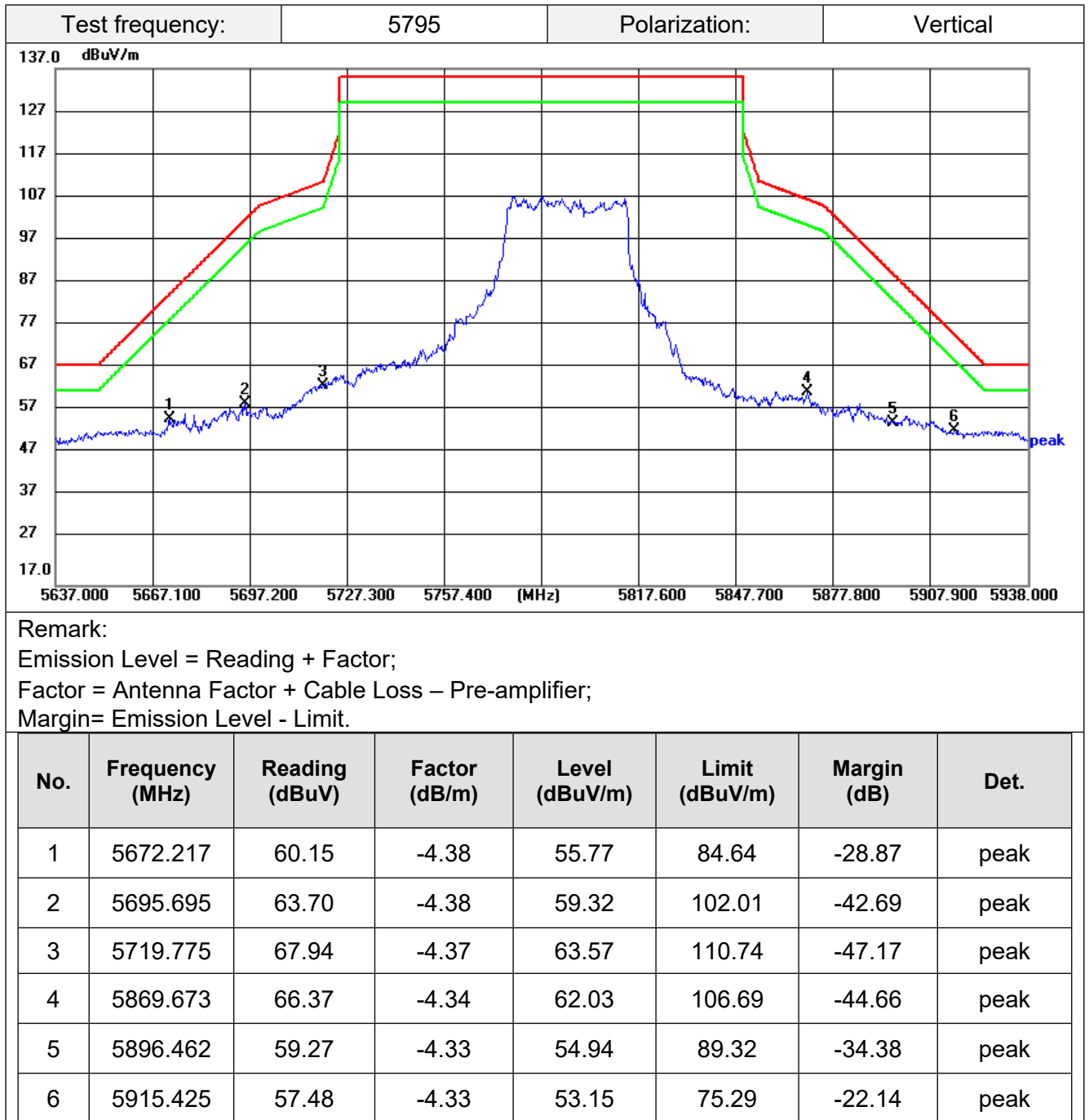
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 5664.993        | 60.19          | -4.38         | 55.81          | 79.29          | -23.48      | peak |
| 2   | 5692.685        | 70.05          | -4.38         | 65.67          | 99.79          | -34.12      | peak |
| 3   | 5720.678        | 79.58          | -4.37         | 75.21          | 112.35         | -37.14      | peak |
| 4   | 5862.148        | 68.06          | -4.34         | 63.72          | 108.80         | -45.08      | peak |
| 5   | 5886.228        | 65.10          | -4.33         | 60.77          | 96.89          | -36.12      | peak |
| 6   | 5907.900        | 61.60          | -4.33         | 57.27          | 80.85          | -23.58      | peak |



### U-NII 3 @ 802.11n(HT40) mode



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 5674.926        | 62.30          | -4.38         | 57.92          | 86.65          | -28.73      | peak |
| 2   | 5688.772        | 66.97          | -4.38         | 62.59          | 96.89          | -34.30      | peak |
| 3   | 5716.163        | 68.77          | -4.37         | 64.40          | 109.73         | -45.33      | peak |
| 4   | 5860.944        | 75.24          | -4.34         | 70.90          | 109.14         | -38.24      | peak |
| 5   | 5883.218        | 68.72          | -4.33         | 64.39          | 99.12          | -34.73      | peak |
| 6   | 5899.472        | 62.74          | -4.33         | 58.41          | 87.09          | -28.68      | peak |



### 3.3 Maximum Conducted Average Output Power

#### Limit

#### **FCC requirement:**

##### **For the band 5.15-5.25 GHz.**

- (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.
- (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.
- (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.
- (iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi.

**For the 5.25-5.35 GHz and 5.47-5.725 GHz bands**, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz.

**For the band 5.725-5.85 GHz**, the maximum conducted output power over the frequency band of operation shall not exceed 1 W

#### **IC requirement:**

##### **Frequency band 5150-5250 MHz**

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or  $1.76 + 10 \log_{10} B$ , dBm, whichever is less.

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or  $10 + 10 \log_{10} B$ , dBm, whichever power is less. B is the 99% emission bandwidth in megahertz.

##### **Frequency band 5250-5350 MHz**

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or  $1.76 + 10 \log_{10} B$ , dBm, whichever is less. Devices shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

Devices, other than devices installed in vehicles, shall comply with the following:

- a) The maximum conducted output power shall not exceed 250 mW or  $11 + 10 \log_{10} B$ , dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;
- b) The maximum e.i.r.p. shall not exceed 1.0 W or  $17 + 10 \log_{10} B$ , dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

##### **Frequency bands 5470-5600 MHz and 5650-5725 MHz**

The maximum conducted output power shall not exceed 250 mW or  $11 + 10 \log_{10} B$ , dBm, whichever is less.

The maximum e.i.r.p. shall not exceed 1.0 W or  $17 + 10 \log_{10} B$ , dBm, whichever is less. B is the 99% emission bandwidth in megahertz.

##### **Frequency band 5725-5850 MHz**

The maximum conducted output power shall not exceed 1 W.

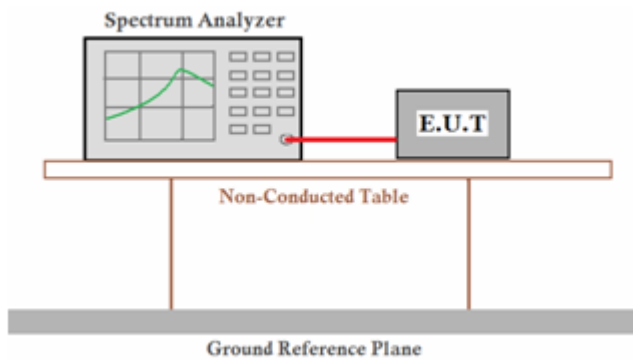
## **Test Procedure**

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer. Place the EUT on the table and set it in transmitting mode.

Method AVGSA-2 description in ANSI C63.10 12.4.2.4 is used for Duty cycle constant (variations are less than  $\pm 2\%$ ) condition.

Method AVGSA-3 description in ANSI C63.10 12.4.2.6 is used for Duty cycle nonconstant (variations are greater than  $\pm 2\%$ ) condition.

## **Test Configuration**



## **Test Results**

☒ **Pass**      ☐ **Not Applicable**

Note:

For test data, please refer to Appendix RF test data for 5G WIFI.

### 3.4 Power Spectral Density

#### Limit

##### **FCC requirement:**

##### **For the band 5.15-5.25 GHz.**

- (i) For an outdoor access point operating in the band 5.15 - 5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band.<sup>note1</sup>
- (ii) For an indoor access point operating in the band 5.15 - 5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 MHz band.<sup>note1</sup>
- (iii) For fixed point-to-point access points operating in the band 5.15 - 5.25 GHz, transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi.
- (iv) For mobile and portable client devices in the 5.15 - 5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 MHz band.<sup>note1</sup>

##### **For the 5.25-5.35 GHz and 5.47-5.725 GHz bands**

The maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

##### **For the band 5.725 - 5.85 GHz**

The maximum power spectral density shall not exceed 30 dBm in any 500 kHz band.<sup>note1, note2</sup>

Note1: If transmitting antennas of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note2: Fixed point - to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

##### **IC requirement:**

##### **For the band 5.15-5.25 GHz.**

The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

##### **Frequency band 5250-5350 MHz**

The power spectral density shall not exceed 11 dBm in any 1.0 MHz band

##### **Frequency bands 5470-5600 MHz and 5650-5725 MHz**

The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

##### **For the band 5.725 - 5.85 GHz**

The maximum power spectral density shall not exceed 30 dBm in any 500 kHz band.<sup>note1, note2</sup>

Note1: If transmitting antennas of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

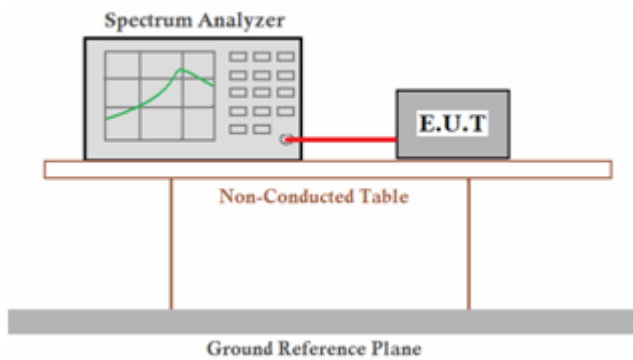
Note2: Fixed point - to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

### Test Procedure

Use the same procedure used for Maximum Conducted Average Output Power measurement with follow setting change.

1. Set the RBW = 1MHz for U-NII 1, U-NII 2A, U-NII C band and 300KHz for U-NII 3 band.
2. Set the VBW  $\geq 3 \times$  RBW.
3. Use the peak search function on the instrument to find the peak of the spectrum.

### Test Configuration



### Test Results

☒ Pass ☐ Not Applicable

Note:

For test data, please refer to Appendix RF test data for 5G WIFI.

### 3.5 Emission Bandwidth (26dBm Bandwidth)

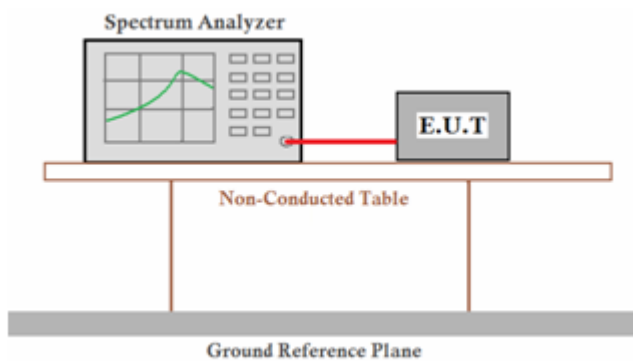
#### Limit

N/A

#### Test Procedure

1. Set resolution bandwidth (RBW) = approximately 1 % of the EBW.
2. Set the video bandwidth (VBW) > RBW.
3. Detector = Peak.
4. Trace mode = Max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW / EBW ratio is approximately 1 %.

#### Test Configuration



#### Test Results

☒ Pass ☐ Not Applicable

Note:

For test data, please refer to Appendix RF test data for 5G WIFI.

### 3.6 Minimum Emission Bandwidth (6dBm Bandwidth)

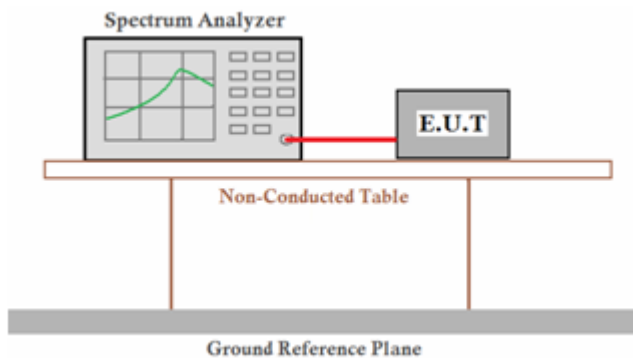
#### Limit

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

#### Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth 3 x RBW.
3. Detector = Peak.
4. Trace mode = Max hold.
5. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

#### Test Configuration



#### Test Results

☒ Pass ☐ Not Applicable

Note:

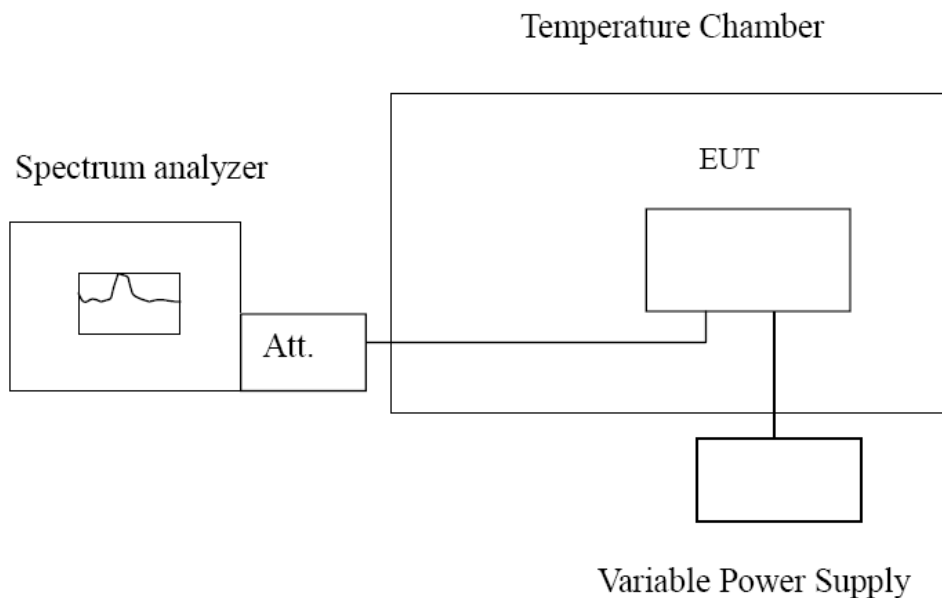
For test data, please refer to Appendix RF test data for 5G WIFI.

### 3.7 Frequency Stability

#### LIMIT

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

#### TEST CONFIGURATION



#### TEST PROCEDURE

##### **Frequency Stability under Temperature Variations:**

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

##### **Frequency Stability under Voltage Variations:**

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ( $\pm 15\%$ ) and endpoint, record the maximum frequency change.

#### TEST RESULTS

☒ **Pass**      ☐ **Not Applicable**

Note:

For test data, please refer to Appendix RF test data for 5G WIFI.

### **3.8 Antenna Requirement**

#### **Standard Applicable**

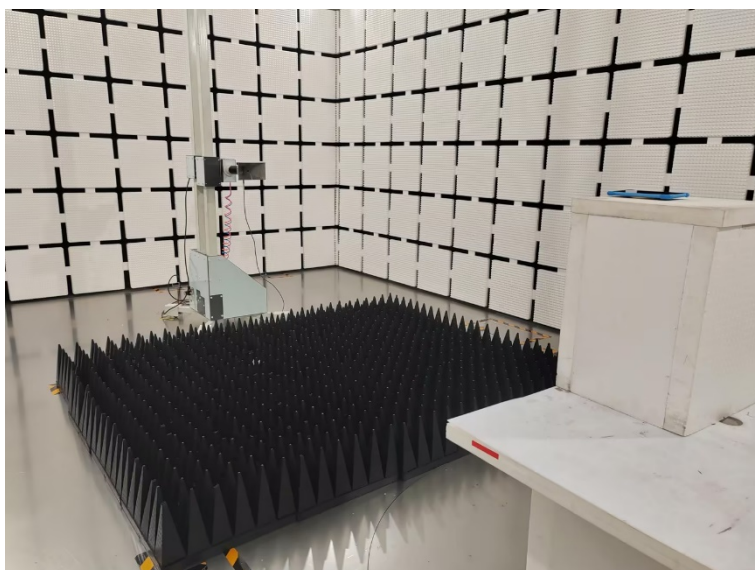
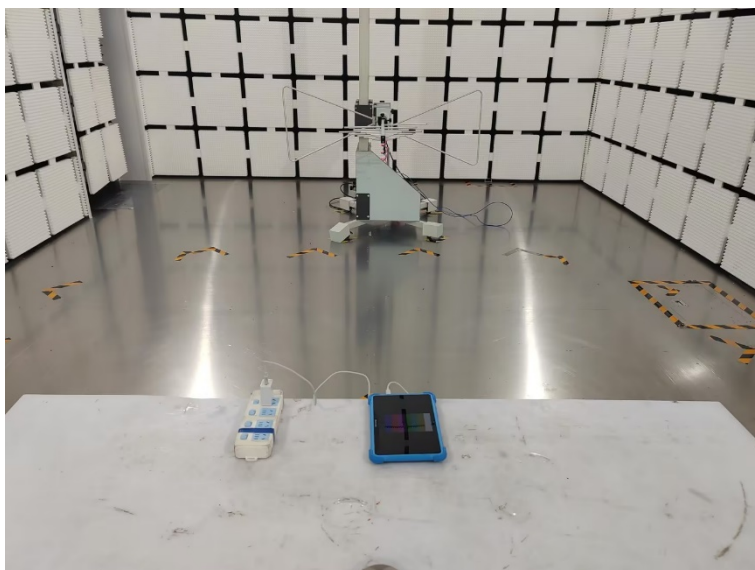
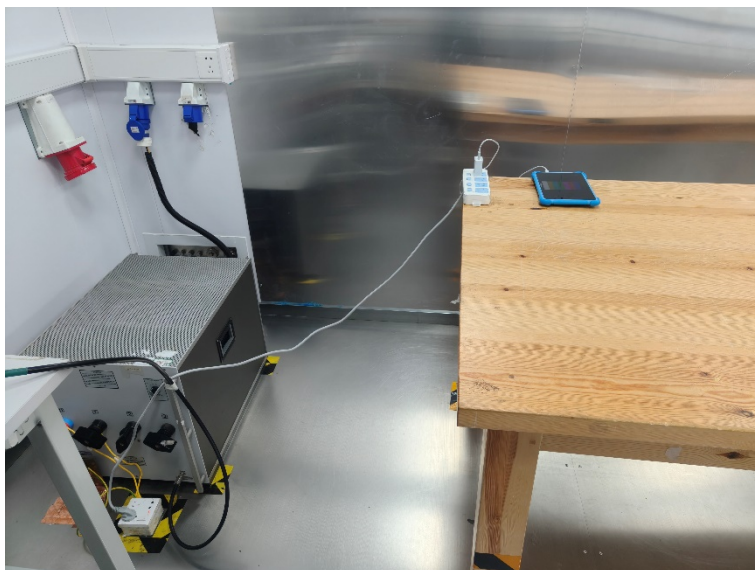
**For intentional device, according to FCC 47 CFR Section 15.203:**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### **Test Result:**

The maximum gain of antenna was 1.91dBi

## 4 Test Setup Photographs of EUT



## 5 Photos of EUT

Please refer to test Report No.: AiTSZ-260305084FW1.

\*\*\*\*\* **End of Report** \*\*\*\*\*