



## RADIO TEST REPORT

For

unitech electronics co., ltd.

Rugged Handheld Computer

Test Model: EA530 UHF

Prepared for : unitech electronics co., ltd.  
Address : 5F., No. 136, Ln. 235, Baoqiao Rd., Xindian Dist., New Taipei City, Taiwan

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.  
Address : Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, 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 : September 09, 2025  
Number of tested samples : 2  
Sample No. : A250901020-1, A250901020-2  
Serial number : Prototype  
Date of Test : September 09, 2025 ~ December 31, 2025  
Date of Report : January 04, 2026



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Add: Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>RADIO TEST REPORT</b><br><b>MIC Notice No.88 Article 2, paragraph 1, item 19-3</b><br>Low Power Data Communication System in the 5 GHz band                                                                                                                                                                                                                                                                                                                                                                                |  |
| <b>Report Reference No. .... : LCSA09025088ED</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <b>Date of Issue ..... : January 04, 2026</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
| <b>Testing Laboratory Name ..... : Shenzhen LCS Compliance Testing Laboratory Ltd.</b><br><b>Address ..... : Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China</b><br><b>Testing Location/ Procedure.... : Full application of Harmonised standards ■</b><br>Partial application of Harmonised standards □<br>Other standard testing method □                                                                    |  |
| <b>Applicant's Name ..... : unitech electronics co., ltd.</b><br><b>Address ..... : 5F., No. 136, Ln. 235, Baoqiao Rd., Xindian Dist., New Taipei City, Taiwan</b>                                                                                                                                                                                                                                                                                                                                                            |  |
| <b>Test Specification</b><br><b>Standard..... : MIC Notice No.88 Article 2, paragraph 1, item 19-3</b><br><b>Test Report Form No..... : TRF-4-E-117 A/0</b><br><b>TRF Originator..... : Shenzhen LCS Compliance Testing Laboratory Ltd.</b><br><b>Master TRF..... : Dated 2011-03</b>                                                                                                                                                                                                                                         |  |
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| <b>Test Item Description. .... : Rugged Handheld Computer</b><br><b>Trade Mark ..... : unitech</b><br><b>Test Model..... : EA530 UHF</b><br><b>Ratings ..... : Please Refer to Page 6</b><br><b>Result ..... : PASS</b>                                                                                                                                                                                                                                                                                                       |  |

Compiled by:

Martin Lee/ Administrator

Supervised by:

Jack Liu/ Technique principal

Approved by:

Gavin Liang/ Manager



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Add: Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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## RADIO -- TEST REPORT

Test Report No. : LCSA09025088ED

January 04, 2026

Date of issue

Test Model..... : EA530 UHF

EUT..... : Rugged Handheld Computer

Applicant..... : unitech electronics co., ltd.

Address..... : 5F., No. 136, Ln. 235, Baoqiao Rd., Xindian Dist., New Taipei City, Taiwan

Telephone..... : /

Fax..... : /

Manufacturer..... : unitech electronics co., ltd.

Address..... : 5F., No. 136, Ln. 235, Baoqiao Rd., Xindian Dist., New Taipei City, Taiwan

Telephone..... : /

Fax..... : /

Factory..... : Shenzhen Xin Kingbrand Enterprises Co.,Ltd

Address..... : First and Third Floor of Building B, Building A, No. 90 Nanpu Road, Shajing Street, Baoan District, Shenzhen City, China

Telephone..... : /

Fax..... : /

Factory..... : unitech electronics co., ltd.

Address..... : 5F., No. 136, Ln. 235, Baoqiao Rd., Xindian Dist., New Taipei City, Taiwan

Telephone..... : /

Fax..... : /

**Test Result****PASS**

The test report merely corresponds to the test sample.

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



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Revision History

| Report Version | Issue Date       | Revision Content | Revised By |
|----------------|------------------|------------------|------------|
| 000            | January 04, 2026 | Initial Issue    | --         |
|                |                  |                  |            |
|                |                  |                  |            |



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Add: Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Subdistrict, Bao' an District, Shenzhen, Guangdong, China  
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Add: Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

|                        |                                                                                                                                                                                                                                 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUT                    | : Rugged Handheld Computer                                                                                                                                                                                                      |
| Test Model             | : EA530 UHF                                                                                                                                                                                                                     |
| Ratings                | : Input: 5V—2A/9V—1.5A<br>DC 3.85V by Rechargeable Li-ion Battery, 4150mAh                                                                                                                                                      |
| Hardware Version       | : MV11_V2.0                                                                                                                                                                                                                     |
| Software Version       | : Luna_V15.00.00.01_20250915_debug.rar                                                                                                                                                                                          |
| Bluetooth              |                                                                                                                                                                                                                                 |
| Frequency Range        | : 2402-2480MHz for Bluetooth<br>(79 channels for Bluetooth V5.0(BDR/EDR)<br>Channel Frequency=2402+(K-1), K=1, 2, 3 .....79<br>40 channels for Bluetooth V5.0(BT LE/BT 2LE)<br>Channel Frequency=2402+2(K-1), K=1, 2, 3 .....40 |
| Declared Antenna Power | : Bluetooth V5.0(BDR/EDR): 0.03mW/MHz<br>Bluetooth V5.0(BT LE/BT 2LE): 1.0mW                                                                                                                                                    |
| Modulation Type        | : Bluetooth V5.0(BDR/EDR): GFSK, $\pi/4$ -DQPSK, 8-DPSK<br>Bluetooth V5.0(BT LE/BT 2LE): GFSK                                                                                                                                   |
| Data Rate              | : Bluetooth V5.0(BDR/EDR): 1/2/3Mbps<br>Bluetooth V5.0(BT LE/BT 2LE): 1/2Mbps                                                                                                                                                   |
| Antenna Description    | : PIFA Antenna, -0.32dBi (Max.)                                                                                                                                                                                                 |
| WIFI (2.4G Band)       |                                                                                                                                                                                                                                 |
| Frequency Range        | : 2412-2472MHz for 802.11b/g/n(HT20)<br>2422-2462MHz for 802.11n(HT40)                                                                                                                                                          |
| Channel Spacing        | : 5MHz                                                                                                                                                                                                                          |
| Channel Number         | : 13 Channel for 802.11b/g/n(HT20) (2412~2472MHz)<br>9 channels for 802.11n(HT40) (2422~2462MHz)                                                                                                                                |
| Modulation Type        | : 802.11b: DSSS (CCK, DQPSK, DBPSK)<br>802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)                                                                                                                                               |
| Declared Antenna Power | : 802.11b: 3.0mW/MHz<br>802.11g: 2.5mW/MHz<br>802.11n(HT20): 1.5mW/MHz<br>802.11n(HT40): 0.5mW/MHz<br>802.11n(HT20 MIMO): 3.0mW/MHz<br>802.11n(HT40 MIMO): 1.0mW/MHz                                                            |
| Antenna Description    | : Antenna0: PIFA Antenna, -0.32dBi (Max.)<br>Antenna1: PIFA Antenna, 0.81dBi (Max.)                                                                                                                                             |
| WIFI (5.2G Band)       |                                                                                                                                                                                                                                 |
| Frequency Range        | : 5180-5240MHz                                                                                                                                                                                                                  |
| Channel Number         | : 4 Channel for 20MHz bandwidth(5180-5240MHz)<br>2 Channel for 40MHz bandwidth(5190-5230MHz)<br>1 Channel for 80MHz bandwidth(5210MHz)                                                                                          |



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Add: Room 101/201, Building A, and Room 101/301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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Modulation Type : 802.11a/n: OFDM (64QAM, 16QAM, QPSK, BPSK)  
802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)

Declared Antenna Power : 802.11a: 1.0mW/MHz  
802.11n(HT20): 0.7mW/MHz  
802.11n(HT40): 0.4mW/MHz  
802.11ac (VHT20): 0.5mW/MHz  
802.11ac (VHT40): 0.4mW/MHz  
802.11ac (VHT80): 0.2mW/MHz  
802.11n(HT20 MIMO): 1.4mW/MHz  
802.11n(HT40 MIMO): 0.8mW/MHz  
802.11ac (VHT20 MIMO): 1.0mW/MHz  
802.11ac (VHT40 MIMO): 0.8mW/MHz  
802.11ac (VHT80 MIMO): 0.4mW/MHz

Antenna Description : Antenna0: PIFA Antenna, 1.64dBi (Max.)  
Antenna1: PIFA Antenna, 2.08dBi (Max.)

#### WIFI (5.3G Band)

Frequency Range : 5260-5320MHz

Channel Number : 4 channels for 20MHz bandwidth(5260-5320MHz)  
2 channels for 40MHz bandwidth(5270-5310MHz)  
1 Channel for 80MHz bandwidth(5290MHz)

Modulation Type : 802.11a/n: OFDM (64QAM, 16QAM, QPSK, BPSK)  
802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)

Declared Antenna Power : 802.11a: 0.9mW/MHz  
802.11n(HT20): 0.6mW/MHz  
802.11n(HT40): 0.3mW/MHz  
802.11ac (VHT20): 0.6mW/MHz  
802.11ac (VHT40): 0.3mW/MHz  
802.11ac (VHT80): 0.1mW/MHz  
802.11n(HT20 MIMO): 1.2mW/MHz  
802.11n(HT40 MIMO): 0.6mW/MHz  
802.11ac (VHT20 MIMO): 1.2mW/MHz  
802.11ac (VHT40 MIMO): 0.6mW/MHz  
802.11ac (VHT80 MIMO): 0.2mW/MHz

Antenna Description : Antenna0: PIFA Antenna, 1.64dBi (Max.)  
Antenna1: PIFA Antenna, 2.08dBi (Max.)

#### WIFI (5.6G Band)

Frequency Range : 5500-5720MHz

Channel Number : 12 Channels for 20MHz bandwidth(5500-5720MHz)  
6 Channels for 40MHz bandwidth(5510-5710MHz)  
3 channels for 80MHz bandwidth(5530-5690MHz)

Modulation Type : 802.11a/n: OFDM (64QAM, 16QAM, QPSK, BPSK)  
802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)

Declared Antenna Power : 802.11a: 1.2mW/MHz  
802.11n(HT20): 1.5mW/MHz



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|                           |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | 802.11n(HT40): 1.2mW/MHz                                                                                                                                                                                                                                                                                                                                                                                                  |
|                           | 802.11ac (VHT20): 1.5mW/MHz                                                                                                                                                                                                                                                                                                                                                                                               |
|                           | 802.11ac (VHT40): 1.2mW/MHz                                                                                                                                                                                                                                                                                                                                                                                               |
|                           | 802.11ac (VHT80): 0.6mW/MHz                                                                                                                                                                                                                                                                                                                                                                                               |
|                           | 802.11n(HT20 MIMO): 3.0mW/MHz                                                                                                                                                                                                                                                                                                                                                                                             |
|                           | 802.11n(HT40 MIMO): 2.4mW/MHz                                                                                                                                                                                                                                                                                                                                                                                             |
|                           | 802.11ac (VHT20 MIMO): 3.0mW/MHz                                                                                                                                                                                                                                                                                                                                                                                          |
|                           | 802.11ac (VHT40 MIMO): 2.4mW/MHz                                                                                                                                                                                                                                                                                                                                                                                          |
|                           | 802.11ac (VHT80 MIMO): 1.2mW/MHz                                                                                                                                                                                                                                                                                                                                                                                          |
| Antenna Description       | : Antenna0: PIFA Antenna, 1.64dBi (Max.)<br>Antenna1: PIFA Antenna, 2.08dBi (Max.)                                                                                                                                                                                                                                                                                                                                        |
| WIFI (6G Band)            | :                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Frequency Range           | : 5955MHz -6415MHz                                                                                                                                                                                                                                                                                                                                                                                                        |
| Channel Number            | : 24 channels for 20MHz bandwidth<br>12 channels for 40MHz bandwidth<br>6 channels for 80MHz bandwidth                                                                                                                                                                                                                                                                                                                    |
| Modulation Type           | : 802.11ax: OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)                                                                                                                                                                                                                                                                                                                                                             |
| Declared Antenna Power    | : VLP:<br>802.11ax (HE20): 0.15mW/MHz<br>802.11ax (HE40): 0.10mW/MHz<br>802.11ax (HE80): 0.05mW/MHz<br>802.11ax (HE20 MIMO): 0.30mW/MHz<br>802.11ax (H40 MIMO): 0.20mW/MHz<br>802.11ax (HE80 MIMO): 0.10mW/MHz<br>LPI:<br>802.11ax (HE20): 1.5mW/MHz<br>802.11ax (HE40): 0.5mW/MHz<br>802.11ax (HE80): 0.2mW/MHz<br>802.11ax (HE20 MIMO): 3.0mW/MHz<br>802.11ax (H40 MIMO): 1.0mW/MHz<br>802.11ax (HE80 MIMO): 0.40mW/MHz |
| Antenna Description       | : Antenna0: PIFA Antenna, 2.36dBi (Max.)<br>Antenna1: PIFA Antenna, 4.20dBi (Max.)                                                                                                                                                                                                                                                                                                                                        |
| RFID                      | :                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Assigned Frequency        | : 916.8MHz - 920.8MHz                                                                                                                                                                                                                                                                                                                                                                                                     |
| Operating Frequency Range | : 916.8MHz, 918MHz, 919.2MHz, 920.4MHz, 920.6MHz, 920.8MHz                                                                                                                                                                                                                                                                                                                                                                |
| Modulation Type           | : ASK                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Rated Antenna Power       | : 0.7W                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Antenna Description       | : PIFA Antenna, 0.88dBi (Max.)                                                                                                                                                                                                                                                                                                                                                                                            |
| NFC                       | :                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Frequency Range           | : 13.56MHz                                                                                                                                                                                                                                                                                                                                                                                                                |
| Modulation Type           | : ASK                                                                                                                                                                                                                                                                                                                                                                                                                     |



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Antenna Description : Internal Antenna, 0dBi (Max.)

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.

## 1.2. Support Equipment List

| Manufacturer | Description | Model | Serial Number | Certificate |
|--------------|-------------|-------|---------------|-------------|
| ---          | ---         | ---   | ---           | ---         |

## 1.3. External I/O Cable

| I/O Port Description | Quantity | Cable                       |
|----------------------|----------|-----------------------------|
| Type-C USB Port      | 1        | USB Cable: 1.0m, unshielded |

## 1.4. Description of Test Facility

FCC Registration Number is 254912.

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Industry Canada Registration Number is 9642A.

## 1.5. Test Conditions

|                   |   |           |
|-------------------|---|-----------|
| Temperature Range | : | 21-25°C   |
| Humidity Range    | : | 45-85%    |
| Pressure Range    | : | 86-106kPa |



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## 1.6. Frequency of Channels

### Channel & Frequency:

| Frequency Band                                                                                                                                                                   | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|-------------|-----------------|
| 5180~5240MHz                                                                                                                                                                     | 36          | 5180            | 44          | 5220            |
|                                                                                                                                                                                  | 38          | 5190            | 46          | 5230            |
|                                                                                                                                                                                  | 40          | 5200            | 48          | 5240            |
|                                                                                                                                                                                  | 42          | 5210            |             |                 |
| For 802.11a/n(HT20)/ac(VHT20), Channel 36, 40 and 48 were tested.<br>For 802.11n(HT40)/ac(VHT40), Channel 38 and 46 were tested.<br>For 802.11ac(VHT80), Channel 42 were tested. |             |                 |             |                 |

| Frequency Band                                                                                                                                                                   | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|-------------|-----------------|
| 5260~5320MHz                                                                                                                                                                     | 52          | 5260            | 60          | 5300            |
|                                                                                                                                                                                  | 54          | 5270            | 62          | 5310            |
|                                                                                                                                                                                  | 56          | 5280            | 64          | 5320            |
|                                                                                                                                                                                  | 58          | 5290            |             |                 |
| For 802.11a/n(HT20)/ac(VHT20), Channel 52, 56 and 64 were tested.<br>For 802.11n(HT40)/ac(VHT40), Channel 54 and 62 were tested.<br>For 802.11ac(VHT80), Channel 58 were tested. |             |                 |             |                 |

| Frequency Band                                                                                                                                                                                          | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|-------------|-----------------|
| 5500~5720MHz                                                                                                                                                                                            | 100         | 5500            | 124         | 5620            |
|                                                                                                                                                                                                         | 102         | 5510            | 126         | 5630            |
|                                                                                                                                                                                                         | 104         | 5520            | 128         | 5640            |
|                                                                                                                                                                                                         | 106         | 5530            | 132         | 5660            |
|                                                                                                                                                                                                         | 108         | 5540            | 134         | 5670            |
|                                                                                                                                                                                                         | 110         | 5550            | 136         | 5680            |
|                                                                                                                                                                                                         | 112         | 5560            | 138         | 5690            |
|                                                                                                                                                                                                         | 116         | 5580            | 140         | 5700            |
|                                                                                                                                                                                                         | 118         | 5590            | 142         | 5710            |
|                                                                                                                                                                                                         | 120         | 5600            | 144         | 5720            |
|                                                                                                                                                                                                         | 122         | 5610            |             |                 |
| For 802.11a/n(HT20)/ac(VHT20), Channel 100, 120 and 144 were tested.<br>For 802.11n(HT40)/ac(VHT40), Channel 102, 118 and 142 were tested.<br>For 802.11ac(VHT80), Channel 106, 122 and 138were tested. |             |                 |             |                 |



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## 2. TEST METHODOLOGY

### 2.1. EUT Exercise

The EUT was operated in the engineering mode to fix the TX/RX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of MIC Notice No.88 Article 2, paragraph 1, item 19-3.

### 2.2. Measurement Uncertainty

| Test Item                   |   | MU                         | Remark |
|-----------------------------|---|----------------------------|--------|
| Bandwidth                   | : | $\pm 2 \times 10^{-7}$ MHz | /      |
| Antenna Power               | : | $\pm 0.33$ dB              | /      |
| Frequency Tolerance         | : | $\pm 3 \times 10^{-7}$ MHz | /      |
| Conducted spurious emission | : | $\pm 0.13$ dB              | /      |
| DC Power                    | : | $\pm 1\%$                  | /      |

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

### 2.3. Description Of Test Modes

| Test Software Version      |         |                 |         |                 |         |                 |
|----------------------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Operating band             | 20M     |                 | 40MHz   |                 | 80MHz   |                 |
|                            | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 5.2GWIFI<br>(5180-5240MHz) | 36      | 5180            | 38      | 5190            | 42      | 5210            |
|                            | 40      | 5200            |         |                 |         |                 |
|                            | 48      | 5240            | 46      | 5230            |         |                 |
|                            | --      | --              |         |                 |         |                 |
| 5.3GWIFI<br>(5260-5320MHz) | 52      | 5260            | 54      | 5270            | 58      | 5290            |
|                            | 56      | 5280            |         |                 |         |                 |
|                            | 64      | 5320            | 62      | 5310            |         |                 |
|                            | --      | --              |         |                 |         |                 |
| 5.6GWIFI<br>(5500~5720MHz) | 100     | 5500            | 102     | 5510            | 106     | 5530            |
|                            | 120     | 5600            | 118     | 5590            | 122     | 5610            |
|                            | 144     | 5720            | 142     | 5710            | 138     | 5690            |

Note: The EUT is Slave device without radar detection



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## 2.4. Test Voltage

### POWER SUPPLY VOLTAGE FLUCTUATION TEST

| Voltage Fluctuation Test | Normal Voltage | High Voltage +10% of Normal Voltage | Low Voltage -10% of Normal Voltage |
|--------------------------|----------------|-------------------------------------|------------------------------------|
| Input To EUT             | DC 3.85V       | DC 4.24V                            | DC 3.47V                           |
| Output To RF Module      | DC 3.3V        | DC 3.3V                             | DC 3.3V                            |
| Voltage Variation (%)    | --             | --                                  | --                                 |

#### Note:

As the EUT was powered by DC 3.85V, and with the voltage stabilizing circuit used, the chip voltage received floating not exceed  $\pm 1\%$  of nominal condition when working on extreme voltage, so all test performed at nominal voltage only.



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### 3. SYSTEM TEST CONFIGURATION

#### 3.1. Justification

The system was configured for testing in engineering mode.

#### 3.2. EUT Exercise Software

N/A.

#### 3.3. Special Accessories

N/A.

#### 3.4. Block Diagram/Schematics

Please refer to the related document.

#### 3.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.



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#### 4. SUMMARY OF TEST RESULTS

| MIC Notice No.88 Appendix No.45                                                                                                |                                                                                      |        |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------|
| rule                                                                                                                           | Description of Test                                                                  | Result |
| Article 2, paragraph 1,<br>item 19-3                                                                                           | Tolerance Of Frequency                                                               | PASS   |
|                                                                                                                                | Tolerances Of Antenna Power & E.I.R.P                                                | PASS   |
|                                                                                                                                | Tolerance Of Occupied Bandwidth                                                      | PASS   |
|                                                                                                                                | Spread Bandwidth                                                                     | PASS   |
|                                                                                                                                | Tolerance Of Unwanted Emission Intensity<br>& Tolerance Of Out-Of-Band Leakage Power | PASS   |
|                                                                                                                                | Secondary Radiated Emissions                                                         | PASS   |
|                                                                                                                                | Transmission Burst Length                                                            | PASS   |
|                                                                                                                                | Tolerance Of Adjacent Channel Leakage Power                                          | PASS   |
|                                                                                                                                | Interference prevention function                                                     | PASS   |
|                                                                                                                                | Carrier Sensing function                                                             | PASS   |
|                                                                                                                                | Dynamic Frequency Selection                                                          | N/A    |
| <i>N/A is an abbreviation for Not Applicable.</i>                                                                              |                                                                                      |        |
| <i>This device is a slave device without radar detection function, the frequency and transmission is controlled by master.</i> |                                                                                      |        |



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## 5. TEST RESULT

### 5.1. Tolerance Of Frequency

#### 5.1.1. Standard Applicable

Tolerance of frequency shall be  $\pm 20\text{ppm}$ .

#### 5.1.2. Test Procedures

- Set EUT work in non-modulation condition.
- Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Resolution BW: 10 KHz.

Video BW: 10 KHz.

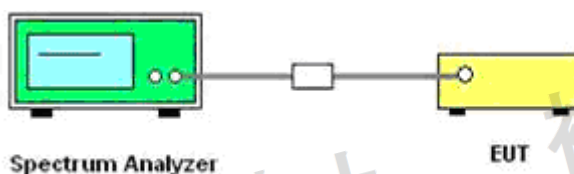
Span: 1 MHz.

Detector: Peak.

Trace Mode: Max Hold.

- When the trace is complete, find the peak value of the power envelope and record.

#### 5.1.3. Test Setup Layout



#### 5.1.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

#### 5.1.5. Test Result

**PASS**

Please refer to the Appendix D.1 for 5.2G WIFI RF Test Data.

Please refer to the Appendix E.1 for 5.3G WIFI RF Test Data.

Please refer to the Appendix F.1 for 5.6G WIFI RF Test Data.



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## 5.2. Tolerances Of Antenna Power & E.I.R.P

### 5.2.1. Standard Applicable

| Operation Band | item                    |     | 20MHz system                                |          | 40MHz system                                  | 80MHz system                                    | 160MHz system                                    |
|----------------|-------------------------|-----|---------------------------------------------|----------|-----------------------------------------------|-------------------------------------------------|--------------------------------------------------|
| W52&W53        | Antenna Power           |     | DSSS, etc                                   | OFDM     | OFDM                                          | OFDM                                            | OFDM                                             |
|                |                         |     | 10mW/MHz                                    | 10mW/MHz | 5mW/MHz                                       | 2.5mW/MHz                                       | 1.25mW/MHz                                       |
|                | Antenna power Tolerance |     | +20%, -80%                                  |          |                                               |                                                 |                                                  |
|                | EIRP                    | W52 | 10mW/MHz                                    |          | 5mW/MHz                                       | 2.5mW/MHz                                       | 1.25mW/MHz                                       |
|                |                         | W53 | 10mW/MHz: with TPC<br>5mW/MHz: without TPC  |          | 5mW/MHz: with TPC<br>2.5mW/MHz: without TPC   | 2.5mW/MHz: with TPC<br>1.25mW/MHz: without TPC  | 1.25mW/MHz: with TPC<br>0.625mW/MHz: without TPC |
| W56            | Antenna Power           |     | DSSS, etc                                   | OFDM     | OFDM                                          | OFDM                                            | OFDM                                             |
|                |                         |     | 10mW/MHz                                    | 10mW/MHz | 5mW/MHz                                       | 2.5mW/MHz                                       | 1.25mW/MHz                                       |
|                | Antenna power Tolerance |     | +50%, -50%                                  |          |                                               |                                                 |                                                  |
|                | EIRP                    |     | 50mW/MHz: with TPC<br>25mW/MHz: without TPC |          | 25mW/MHz: with TPC<br>12.5mW/MHz: without TPC | 12.5mW/MHz: with TPC<br>6.25mW/MHz: without TPC | 1.25mW/MHz: with TPC<br>0.625mW/MHz: without TPC |

### 5.2.2. Test Procedures

- Set EUT work in test mode as described in clause 2.3.
- Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Resolution BW: 1MHz.

Video BW: 3MHz.

Span: Wide enough to cover the complete power envelope of the signal of the EUT.

Trigger condition: Free run.

Sweep mode: Continuous sweeping.

Detector: Peak.

Trace Mode: Max Hold.

- When the trace is complete, find the peak value of the power envelope and record.



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d. Make the following changes to the setting of the Spectrum Analyzer:

Centre Frequency: Equal to the frequency recorded in step c

Resolution BW: 1MHz.

Video BW: 1MHz.

Span: 3MHz

Trigger condition: Free run.

Sweep mode: Continuous sweeping.

Detector: Average

Trace Mode: Max Hold.

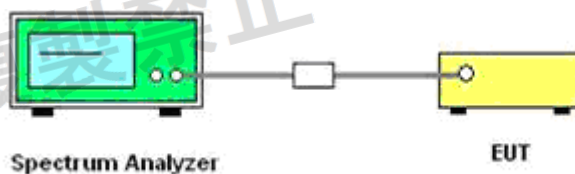
When the trace is complete, find the peak value (value "A" in dBm) of the power envelope and record.

- Add the (stated) antenna assembly gain "G" in dBi of the individual antenna.
- If applicable, add the additional beamforming gain "Y" in dB.

The equivalent isotropically radiated power (P) shall be calculated using the formula below:

$$P = A + G + Y$$

#### 5.2.3. Test Setup



#### 5.2.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

#### 5.2.5. Test Result

**PASS**

**Please refer to the Appendix D.2 for 5.2G WIFI RF Test Data.**

**Please refer to the Appendix E.2 for 5.3G WIFI RF Test Data.**

**Please refer to the Appendix F.2 for 5.6G WIFI RF Test Data.**



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### 5.3. Tolerance Of Occupied Bandwidth

#### 5.3.1. Standard Applicable

| Operation Band | 20MHz system |       | 40MHz system | 80MHz system | 160MHz system |
|----------------|--------------|-------|--------------|--------------|---------------|
| W52 & W53      | DSSS,etc     | OFDM  | OFDM         | OFDM         | OFDM          |
|                | 18MHz        | 20MHz | 40MHz        | 80MHz        | 80MHz         |
| W56            | 18MHz        | 20MHz | 40MHz        | 80MHz        | 80MHz         |

#### 5.3.2. Test Procedures

- Set EUT work in test mode as described in clause 2.3.
- Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

RBW/VBW: 300KHz/300KHz

Span: Wide enough to cover the complete power envelope of the signal of the EUT.

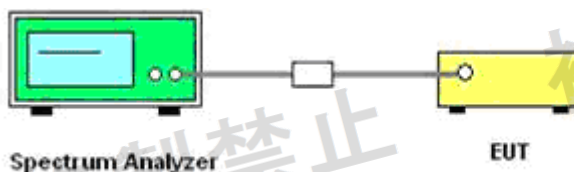
Sweep mode: Continuous sweeping.

Detector: Peak.

Trace Mode: Max Hold.

- When the trace is complete, measure the occupied bandwidth (99% bandwidth) with spectrum analyzer's bandwidth measure function.

#### 5.3.3. Test Setup Layout



#### 5.3.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

#### 5.3.5. Test Result of 99% Spectrum Bandwidth

**PASS**

**Please refer to the Appendix D.3 for 5.2G WIFI RF Test Data.**

**Please refer to the Appendix E.3 for 5.3G WIFI RF Test Data.**

**Please refer to the Appendix F.3 for 5.6G WIFI RF Test Data.**



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## 5.4. Spread Bandwidth

### 5.4.1. Standard Applicable

Spread Bandwidth shall be 500 kHz or more.

### 5.4.2. Test Procedures

- Set EUT work in test mode as described in clause 2.3.
- Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

RBW/VBW: 300KHz/300KHz

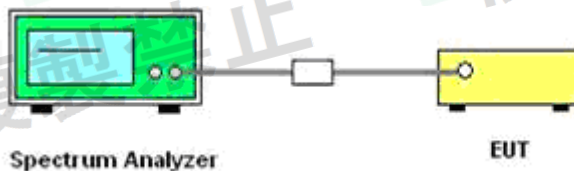
Span: Wide enough to cover the complete power envelope of the signal of the EUT.

Detector: Peak.

Trace Mode: Max Hold.

- When the trace is complete, measure the occupied bandwidth (90% bandwidth) with spectrum analyzer's bandwidth measure function.

### 5.4.3. Test Setup Layout



### 5.4.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

### 5.4.5. Test Result of Spread Bandwidth

**PASS**

**Please refer to the Appendix D.4 for 5.2G WIFI RF Test Data.**

**Please refer to the Appendix E.4 for 5.3G WIFI RF Test Data.**

**Please refer to the Appendix F.4 for 5.6G WIFI RF Test Data.**



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## 5.5. Tolerance Of Unwanted Emission Intensity & Tolerance Of Out-Of-Band Leakage Power

### 5.5.1. Standard Applicable

For W52:

| 20MHz system                                          |                                                       |
|-------------------------------------------------------|-------------------------------------------------------|
| OBW : 18MHz or less                                   | OBW : 18 - 20 MHz                                     |
| 5,142 MHz or less : 2.5 $\mu$ W/MHz                   | 5,142 MHz or less : 2.5 $\mu$ W/MHz                   |
| 5,142 - 5,150 MHz : 15 $\mu$ W/MHz                    | 5,142 - 5,150 MHz : 15 $\mu$ W/MHz                    |
|                                                       | 5,250 - 5,250.2 MHz : $10^{1-(8/3)(f-9.75)}$ mW/MHz   |
| 5,250 - 5,251 MHz : $10^{1-(f-9)}$ mW/MHz             | 5,250.2 - 5,251 MHz : $10^{1-(f-9)}$ mW/MHz           |
| 5,251 - 5,260 MHz : $10^{-1-(8/90)(f-11)}$ mW/MHz     | 5,251 - 5,260 MHz : $10^{-1-(8/90)(f-11)}$ mW/MHz     |
| 5,260 - 5,266.7 MHz : $10^{-1.8-(6/50)(f-20)}$ mW/MHz | 5,260 - 5,266.7 MHz : $10^{-1.8-(6/50)(f-20)}$ mW/MHz |
| 5,266.7 MHz or more : 2.5 $\mu$ W/MHz                 | 5,266.7 MHz or more : 2.5 $\mu$ W/MHz                 |
| f = MHz, Difference from 5240 (MHz)                   | f = MHz, Difference from 5240 (MHz)                   |

| 40MHz system                                                    | 80MHz system                                                     |
|-----------------------------------------------------------------|------------------------------------------------------------------|
| 5,141.6 MHz or less : 2.5 $\mu$ W/MHz                           | 5,123.2 MHz or less : 2.5 $\mu$ W/MHz                            |
| 5,141.6 - 5,150 MHz : 15 $\mu$ W/MHz                            | 5,123.2 - 5,150 MHz : 15 $\mu$ W/MHz                             |
|                                                                 |                                                                  |
| 5,250 - 5,251 MHz : $10^{-(f-20)+\log(1/2)}$ mW/MHz             | 5,250 - 5,251 MHz : $10^{-(f-40)+\log(1/4)}$ mW/MHz              |
| 5,251 - 5,270 MHz : $10^{-(8/190)(f-21)-1+\log(1/2)}$ mW/MHz    | 5,251 - 5,290 MHz : $10^{-(8/390)(f-41)-1+\log(1/4)}$ mW/MHz     |
| 5,270 - 5,278.4 MHz : $10^{-(3/50)(f-40)-1.8+\log(1/2)}$ mW/MHz | 5,290 - 5,296.7 MHz : $10^{-(3/100)(f-80)-1.8+\log(1/4)}$ mW/MHz |
| 5,278.4 MHz or more : 2.5 $\mu$ W/MHz                           | 5,296.7 MHz or more : 2.5 $\mu$ W/MHz                            |
| f = MHz, Difference from 5230 (MHz)                             | f = MHz, Difference from 5210 (MHz)                              |

For W53:

| 20MHz system                                          |                                                       |
|-------------------------------------------------------|-------------------------------------------------------|
| OBW : 18MHz or less                                   | OBW : 18 - 20 MHz                                     |
| 5,233.3 MHz or less : 2.5 $\mu$ W/MHz                 | 5,233.3 MHz or less : 2.5 $\mu$ W/MHz                 |
| 5,233.3 - 5,240 MHz : $10^{-1.8-(6/50)(f-20)}$ mW/MHz | 5,233.3 - 5,240 MHz : $10^{-1.8-(6/50)(f-20)}$ mW/MHz |
| 5,240 - 5,249 MHz : $10^{-1-(8/90)(f-11)}$ mW/MHz     | 5,240 - 5,249 MHz : $10^{-1-(8/90)(f-11)}$ mW/MHz     |
| 5,249 - 5,250 MHz : $10^{1-(f-9)}$ mW/MHz             | 5,249 - 5,249.8 MHz : $10^{1-(f-9)}$ mW/MHz           |
|                                                       | 5,249.8 - 5,250 MHz : $10^{1-(8/3)(f-9.75)}$ mW/MHz   |
| 5,350 MHz or more : 2.5 $\mu$ W/MHz                   | 5,350 MHz or more : 2.5 $\mu$ W/MHz                   |
| f = MHz, Difference from 5260 (MHz)                   | f = MHz, Difference from 5260 (MHz)                   |



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| 40MHz system                                                    | 80MHz system                                                     |
|-----------------------------------------------------------------|------------------------------------------------------------------|
| 5,221.6 MHz or less : 2.5 $\mu$ W/MHz                           | 5,203.3 MHz or less : 2.5 $\mu$ W/MHz                            |
| 5,221.6 - 5,230 MHz : $10^{-(3/50)(f-40)-1.8+\log(1/2)}$ mW/MHz | 5,203.3 - 5,210 MHz : $10^{-(3/100)(f-80)-1.8+\log(1/4)}$ mW/MHz |
| 5,230 - 5,249 MHz : $10^{-(8/190)(f-21)-1+\log(1/2)}$ mW/MHz    | 5,210 - 5,249 MHz : $10^{-(8/390)(f-41)-1+\log(1/4)}$ mW/MHz     |
| 5,249 - 5,250 MHz : $10^{-(f-20)+\log(1/2)}$ mW/MHz             | 5,249 - 5,250 MHz : $10^{-(f-40)+\log(1/4)}$ mW/MHz              |
| 5,350 - 5,358.4 MHz : 15 $\mu$ W/MHz                            | 5,350 - 5,376.8 MHz : 15 $\mu$ W/MHz                             |
| 5,358.4 MHz or more : 2.5 $\mu$ W/MHz                           | 5,376.8 MHz or more : 2.5 $\mu$ W/MHz                            |
| f = MHz, Difference from 5270 (MHz)                             | f = MHz, Difference from 5290 (MHz)                              |

For W56

| 20MHz system                         |                                      |
|--------------------------------------|--------------------------------------|
| DSSS, etc.                           | OFDM                                 |
| 5,470 MHz or less : 12.5 $\mu$ W/MHz | 5,460 MHz or less : 2.5 $\mu$ W/MHz  |
|                                      | 5,460 - 5,470 MHz : 12.5 $\mu$ W/MHz |
| 5,730 MHz or more : 12.5 $\mu$ W/MHz | 5,745 - 5,765 MHz : 12.5 $\mu$ W/MHz |
|                                      | Over 5,765 MHz : 2.5 $\mu$ W/MHz     |

| 40MHz system                         | 80MHz system                           |
|--------------------------------------|----------------------------------------|
| 5,460 MHz or less : 12.5 $\mu$ W/MHz | 5,460 MHz or less : 12.5 $\mu$ W/MHz   |
| 5,460 - 5,470 MHz : 50 $\mu$ W/MHz   | 5,460 - 5,469.5 MHz : 50 $\mu$ W/MHz   |
| 5,770 MHz or more : 12.5 $\mu$ W/MHz | 5,469.5 - 5,470 MHz : 51.2 $\mu$ W/MHz |
|                                      | 5,770 MHz or more : 12.5 $\mu$ W/MHz   |

## 5.5.2. Test Procedures

- Set EUT work in test mode as described in clause 2.3.
- Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Below 1GHz: RBW/VBW= 1MHz / 3MHz.

Above 1GHz: RBW/VBW= 1MHz / 3MHz.

Detector: Peak.

Trace Mode: Max Hold.

## 5.5.3. Test Setup Layout

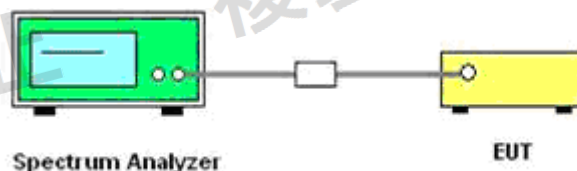


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#### 5.5.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

#### 5.5.5. Test Results

**PASS**

Please refer to the Appendix D.5 for 5.2G WIFI RF Test Data.

Please refer to the Appendix E.5 for 5.3G WIFI RF Test Data.

Please refer to the Appendix F.5 for 5.6G WIFI RF Test Data.



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## 5.6. Secondary Radiated Emissions

### 5.6.1. Standard Applicable

4nW or less at a frequency below 1 GHz and 20 nW or less at a frequency of 1 GHz.

### 5.6.2. Test Procedures

- Set EUT work in test mode as described in clause 2.3.
- Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Resolution BW: 100 KHz for frequency below 1GHz and

1MHz for frequency above 1GHz

Video BW: 300 KHz for frequency below 1GHz and

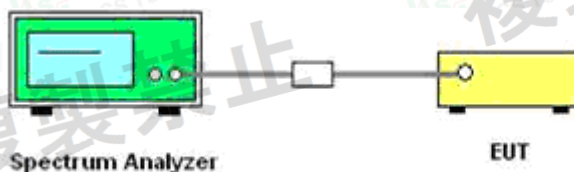
3MHz for frequency above 1GHz

Detector: Peak.

Trace Mode: Max Hold.

- All the emissions from 30MHz to 26GHz were measured and record.

### 5.6.3. Test Setup



### 5.6.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

### 5.6.5. Test Results

**PASS**

**Please refer to the Appendix D.5 for 5.2G WIFI RF Test Data.**

**Please refer to the Appendix E.5 for 5.3G WIFI RF Test Data.**

**Please refer to the Appendix F.5 for 5.6G WIFI RF Test Data.**



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## 5.7. Transmission Burst Length

### 5.7.1. Standard Applicable

Transmission Burst Length shall be 8ms or less.

### 5.7.2. Test Procedures

- Set EUT work in test mode as described in clause 2.3.
- Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

Centre Frequency: The centre frequency of the channel under test.

Resolution BW: 8 MHz.

Video BW: 50 MHz.

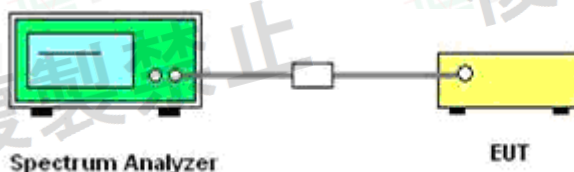
Span: 0Hz

Sweep mode: Auto

Detector: Peak.

Trace Mode: View.

### 5.7.3. Test Setup Layout



### 5.7.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

### 5.7.5. Test Result

**PASS**

**Please refer to the Appendix D.6 for 5.2G WIFI RF Test Data.**

**Please refer to the Appendix E.6 for 5.3G WIFI RF Test Data.**

**Please refer to the Appendix F.6 for 5.6G WIFI RF Test Data.**



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## 5.8. Tolerance Of Adjacent Channel Leakage Power

### 5.8.1. Standard Applicable

| 20MHz system                                               |                                                             | 40MHz system                                                | 80MHz system                                                | 160MHz system                                               |
|------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| DSSS, etc                                                  | OFDM                                                        | OFDM                                                        | OFDM                                                        | OFDM                                                        |
| $F_c \pm 20\text{MHz}$<br>$\pm 9\text{MHz BW}$ :<br>-25dBc | $F_c \pm 20\text{MHz}$<br>$\pm 10\text{MHz BW}$ :<br>-25dBc | $F_c \pm 40\text{MHz}$<br>$\pm 20\text{MHz BW}$ :<br>-25dBc | $F_c \pm 80\text{MHz}$<br>$\pm 40\text{MHz BW}$ :<br>-25dBc | $F_c \pm 80\text{MHz}$<br>$\pm 40\text{MHz BW}$ :<br>-25dBc |
| $F_c \pm 40\text{MHz}$<br>$\pm 9\text{MHz BW}$ :<br>-40dBc | $F_c \pm 40\text{MHz}$<br>$\pm 10\text{MHz BW}$ :<br>-40dBc | $F_c \pm 80\text{MHz}$<br>$\pm 20\text{MHz BW}$ :<br>-40dBc |                                                             |                                                             |

### 5.8.1. Test Procedures

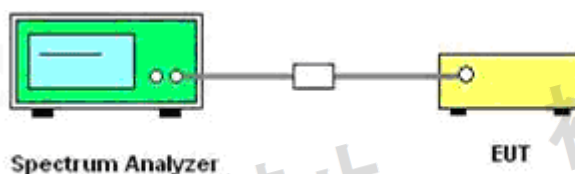
- Set EUT work in test mode as described in clause 2.3.
- Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, set the Spectrum Analyzer as below:

RBW/VBW= 300KHz / 300KHz.

Detector: Peak.

Trace Mode: Max Hold.

### 5.8.3. Test Setup Layout



### 5.8.4. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

### 5.8.5. Test Results

**PASS**

**Please refer to the Appendix D.7 for 5.2G WIFI RF Test Data.**

**Please refer to the Appendix E.7 for 5.3G WIFI RF Test Data.**

**Please refer to the Appendix F.7 for 5.6G WIFI RF Test Data.**



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## 5.9. Carrier sensing function

### 5.9.1. Standard Applicable

| Item          | Limits                                                                                                                                         |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Carrier Sense | Good – EUT stop RF transmission signal after carrier inject to EUT.<br>(On $22.79 + Gr - 20 \cdot \log(f)$ [dBm] (Gr: dBi; f: MHz) or 100mV/m) |

### 5.9.2. Measuring Instruments and Setting

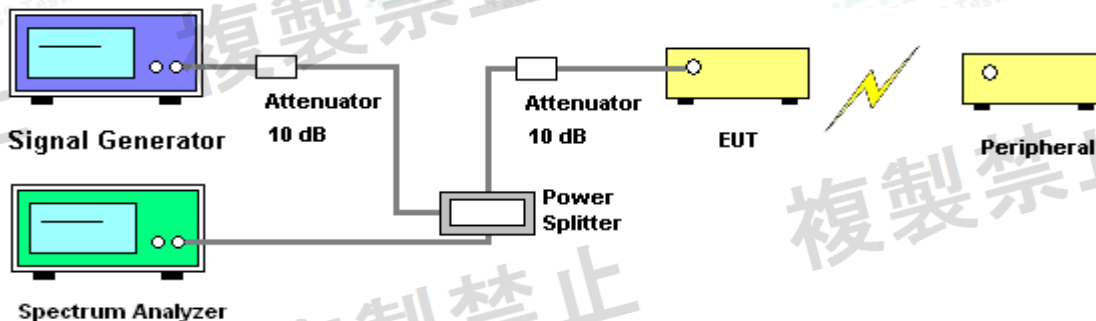
Please refer to section 9 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

| Spectrum Parameter | Setting    |
|--------------------|------------|
| Attenuation        | Auto       |
| RB / VB            | 1 MHz      |
| Span               | 0 MHz      |
| Sweep              | Continuous |
| Detector           | Peak       |
| Trigger mode       | Video      |

### 5.9.3. Test Procedures

1. SSG adjusted the frequency as same as the EUT transmitted signal and emitted the absence of modulation from SSG and power level is (On  $22.79 + Gr - 20 \cdot \log(f)$  [dBm] (Gr: dBi; f: MHz). Then turn off the RF signal of SSG.
2. EUT have transmitted the maximum modulation signal and fixed channelize.
3. Setting of SA is following as: RB:1MHz / VB:1MHz / SPAN: 50MHz / AT: 10dB / Ref: 0dBm / Sweep time: Auto / Sweep Mode: Continuous sweep / Detect mode: PASS peak.
4. SSG RF Signal On.
5. EUT shall be stop the transmitted any signal and SSG RF Signal Off. Then EUT will be continuous transmitted signal.

### 5.9.4. Test Setup Layout



### 5.9.5. EUT Operation during Test

The EUT was programmed to be in normal transmitting mode.



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## 5.9.6. Test Result

| Test Mode        | Test Result |
|------------------|-------------|
| 802.11a          | Pass        |
| 802.11n HT20     | Pass        |
| 802.11n(HT40)    | Pass        |
| 802.11ac (VHT20) | Pass        |
| 802.11ac (VHT40) | Pass        |
| 802.11ac (VHT80) | Pass        |

Note: 1. this test item only applies to those modes with bandwidth greater than 20MHz;

after a carrier signal  $22.79+Gr-20*\log(f)[dBm]$  was injected into EUT, it stopped transmission.

2. The EUT has three carriers in the test

3. Tested at both antenna 0 and antenna 1, recorded worst case at antenna 0.



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## 5.10. Interference prevention function

### 5.10.1. Standard Applicable

| Item                | Limits         |
|---------------------|----------------|
| Identification code | $\geq 48$ bits |

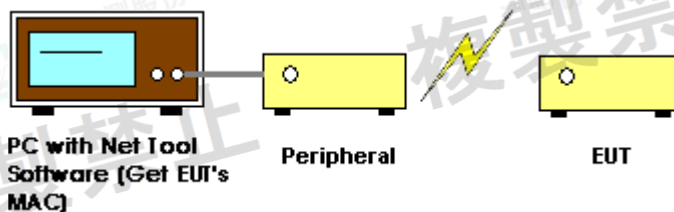
### 5.10.2. Measuring ID Code Software

| PC with NetTool | Setting  |
|-----------------|----------|
| MAC IP List     | MAC Scan |

### 5.10.3. Test Procedures

1. In the case that the EUT has the function of automatically transmitting the identification code: a. Transmit the predetermined identification codes from EUT. b. Check the transmitted identification codes with the demodulator.
2. In the case of receiving the identification code: a. Transmit the predetermined identification codes from the counterpart. b. Check if communication is normal. c. Transmit the other signals than predetermined ID codes from the counterpart. d. check if the EUT stops the transmission, or if it displays that identification codes are different from the predetermined ones.

### 5.10.4. Test Setup Layout



### 5.10.5. EUT Operation during Test

The EUT was programmed to be in normal transmitting mode.

### 5.10.6. Test Result

MAC Address: 08:fb:ea:6b:fa:a7

Complies.



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## 5.11. Dynamic Frequency Selection

### 5.11.1. Standard Applicable

#### Parameters and applicability of DFS requirement

| Parameter                         | Value              | Operational Mode |                 |
|-----------------------------------|--------------------|------------------|-----------------|
|                                   |                    | Master           | Slave           |
| Non-Occupancy period              | Minimum 30 minutes | √                | Not requirement |
| Channel Availability Check Time   | 60 Seconds         | √                | Not requirement |
| Channel Move Time                 | 10 Seconds         | √                | √               |
| Channel Closing Transmission Time | 260ms              | √                | √               |

#### DFS Detection Thresholds for Masters Devices

| Maximum E.I.R.P | Receive power(average) |
|-----------------|------------------------|
| Less than 0.2W  | -62dBm                 |
| 0.2W or more    | -64dBm                 |

Note: This is the level at the input of the receiver as assuming a 0 dBi receive antenna.

#### Radar type & detection probability

W53

| Type                 | Pulse width | Repetition frequency | Numbers of continuous pulses | Detection Probability* |
|----------------------|-------------|----------------------|------------------------------|------------------------|
| W53 Fixed Pulse<br>1 | 1μs         | 700Hz                | 18                           | 60% or more            |
| W56 Fixed Pulse<br>2 | 2.5μs       | 260Hz                | 18                           | 60% or more            |

\*In the transmission of the 50% of maximum signal access speed (an error correction and control signal are not included), when the master station is transmitting to the slave station

#### W56 Un-modulated pulse radio wave



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| Type                    | Pulse width                                                                                                                     | Repetition frequency                                        | Numbers of continuous pulses                      | Detection Probability*     |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------|----------------------------|
| W56 Fixed Pulse<br>1    | 1 $\mu$ s                                                                                                                       | 720Hz                                                       | 18                                                | 60% or more                |
| W56 Fixed Pulse<br>2    | 2.5 $\mu$ s                                                                                                                     | 700Hz                                                       | 18                                                | 60% or more                |
| W56 Fixed Pulse<br>3    | 2.0 $\mu$ s                                                                                                                     | 250Hz                                                       | 18                                                | 60% or more<br>60% or more |
| W56 Variable Pulse<br>4 | 1 $\mu$ s $\leq$ X $\leq$ 5 $\mu$ s<br>("1 $\mu$ s" or" width which added the integral multiple of 1 $\mu$ s to 1 $\mu$ s")     | 4347Hz $\leq$ X $\leq$ 6667Hz<br>(arbitrary frequency of 1) | 23 $\leq$ X $\leq$ 29<br>(arbitrary integer of 1) | 60% or more                |
| W56 Variable Pulse<br>5 | 6 $\mu$ s $\leq$ X $\leq$ 11 $\mu$ s<br>("6 $\mu$ s" or" width which added the integral multiple of 1 $\mu$ s to 6 $\mu$ s")    | 2000Hz $\leq$ X $\leq$ 5000Hz<br>(arbitrary frequency of 1) | 16 $\leq$ X $\leq$ 18<br>(arbitrary integer of 1) | 60% or more                |
| W56 Variable Pulse<br>6 | 11 $\mu$ s $\leq$ X $\leq$ 20 $\mu$ s<br>("11 $\mu$ s" or" width which added the integral multiple of 1 $\mu$ s to 11 $\mu$ s") | 2000Hz $\leq$ X $\leq$ 5000Hz<br>(arbitrary frequency of 1) | 12 $\leq$ X $\leq$ 16<br>(arbitrary integer of 1) | 60% or more                |

\*1. In the transmission of the 50% of maximum signal access speed (an error correction and control signal are not included), when the master station is transmitting to the slave station

\*2. The average value of the "detection probability" for every classification of the radio wave which radar transmits shall be "80% or more".

#### W56 modulated pulse (Chirp radar)

| Type      | Pulse width                                                                                                                      | Repetition frequency                                       | Numbers of continuous pulses                    | Detection Probability* |
|-----------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------------------------------------|------------------------|
| W56 Chirp | 50 $\mu$ s $\leq$ X $\leq$ 100 $\mu$ s<br>("50 $\mu$ s" or" width which added the integral multiple of 1 $\mu$ s to 50 $\mu$ s") | 500Hz $\leq$ X $\leq$ 1000Hz<br>(arbitrary frequency of 1) | 1 $\leq$ X $\leq$ 3<br>(arbitrary integer of 1) | 80% or more            |

\*1. In the transmission of the 17% of maximum signal access speed (an error correction and control signal are not included), when the master station is transmitting to the slave station.

\*2. A mass of member of continuous pluses (burst) shall be radiated for 12 Seconds.

\*3. Deviation width of the frequency for performing linearly frequency modulation during the pulse(Chirp width):5MHz $\leq$ X $\leq$ 20MHz ("5MHz" or" width which added the integral multiple of 1MHz to 5MHz") In this case, "Chirp width" is arbitrary to each burst, "Chirp width" in the same burst shall be an equal thing.

\*4. Number of burst": 8 $\leq$ X $\leq$ 20(arbitrary integer), Burst interval: Time which divided 12 seconds by the number of burst.

\*5. When there are two or more pluses within the burst of 1, the pulse width shall be an equal thing.

\*6. When there are two or more pluses within the burst of 1, the "repetition frequency" must not have relevance between the "repetition frequency" of the pulse of 1, and the "repetition frequency" of the pulse of next 1.



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**W56 modulated pulse (hopping radar)**

| Type        | Pulse width | Repetition frequency | Numbers of continuous pulses | Detection Probability* |
|-------------|-------------|----------------------|------------------------------|------------------------|
| W56 Hopping | 1μs         | 3000Hz               | 9                            | 70% or more            |

\*1. In the transmission of the 17% of maximum signal access speed (an error correction and control signal are not included), when the master station is transmitting to the slave station

\*2. Burst: one mass of the number of continuous pulses.

\*3. Hopping Frequency:  $5250\text{MHz} \leq X \leq 5724\text{MHz}$  ("5250MHz" or the arbitrary frequency which added the integral multiple of 1MHz to 5250MHz")

\*4. Switching interval of the hopping frequency: "3ms", Total switch interval of the all hopping frequency: "300ms".

\*5. Burst interval: "3ms".

**5.11.2. Test Procedures**

A spectrum analyzer is used as a monitor to verify that the UUT has vacated the Channel within the (Channel Closing Transmission Time and Channel Move Time, and does not transmit on a Channel during the Non-Occupancy Period after the detection and Channel move. It is also used to monitor UUT transmissions during the Channel Availability Check Time.

**(i) Confirming available channels**

A. Set the standard signal generator to be in non-transmission state.

B. Set EUT to be in state of available channel checking by initializing EUT and confirm with the spectrum analyzer that EUT does not radiate emissions.

C. In a time slot selected randomly from the time period of available channel checking, set the standard signal input generator to be in transmission state and apply quasi radar pulses at the prescribed level to EUT.

D. Confirm with the spectrum analyzer that EUT does not radiate emissions when quasi radar pulses are input to EUT.

E. Repeat Steps A to D four times and record each time whether EUT radiates emissions or not. If EUT does not radiate emissions, assume that a quasi radar pulse has been detected and find how many times it has been detected.

**(ii) Monitoring of operating channel**

A. Set the standard signal generator to be in non-transmission state.

B. Set EUT to be in state of operating channel monitoring by initializing it and transmit waves at the test frequency.

C. Establish communications with the external test device.

D. Set the standard signal generator to be in transmission state and apply quasi radar pulses at the prescribed input level to EUT.

E. Confirm with the spectrum analyzer that EUT stops radiating emissions when quasi radar pulses are input to EUT.

F. Repeat Steps A to E 20 times and record each time whether EUT radiates emissions or not. If EUT does not radiate emissions, assume that a quasi radar pulse has been detected and find how many times it has been detected.



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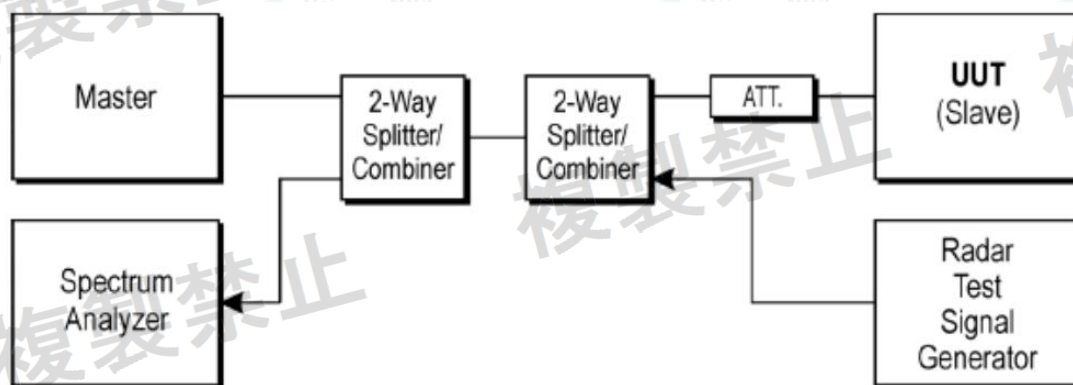
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### 5.11.3. Test Setup



### 5.11.4. Test Results

Not Applicable because Slave device only without radar detection function.



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## 6. PHOTOGRAPHS OF TEST SETUP

Please refer to separated files Appendix H for Test Setup Photographs

## 7. EXTERNAL PHOTOGRAPHS OF THE EUT

Please refer to separated files Appendix I for External Photos of EUT

## 8. INTERNAL PHOTOGRAPHS OF THE EUT

Please refer to separated files Appendix J for Internal Photos of EUT

## 9. LIST OF MEASURING EQUIPMENTS

| Item | Equipment           | Manufacturer              | Model No.    | Serial No. | Cal Date   | Due Date   |
|------|---------------------|---------------------------|--------------|------------|------------|------------|
| 1    | Power Meter         | R&S                       | NRVS         | 100444     | 2025-05-22 | 2026-05-21 |
| 2    | Power Sensor        | R&S                       | NRP-Z81      | 100458     | 2025-05-22 | 2026-05-21 |
| 3    | Power Sensor        | R&S                       | U2021        | 10057      | 2025-05-22 | 2026-05-21 |
| 4    | Test Software       | Tonscend                  | JS1120-2     | /          | N/A        | N/A        |
| 5    | RF Control Unit     | Tonscend                  | JS0806-2     | /          | 2025-11-07 | 2026-11-06 |
| 6    | MXA Signal Analyzer | Agilent                   | N9020A       | MY49100699 | 2025-05-22 | 2026-05-21 |
| 7    | MXA Signal Analyzer | Agilent Technologies Inc. | N9020A       | MY49100699 | 2025-05-22 | 2026-05-21 |
| 8    | DC Power Supply     | Agilent                   | E3642A       | N/A        | 2025-09-27 | 2026-09-26 |
| 9    | Oscilloscope        | Tektronix                 | 46084A/4609A | 140920     | 2025-05-22 | 2026-05-21 |
| 10   | Signal Generator    | Agilent                   | N5182A       | MY47071151 | 2025-05-22 | 2026-05-21 |

Note: Calibration by the calibration agencies listed in the table corresponds to paragraph 4 (ii) (c) of Article 24-2 in the Radio Law.  
Calibration Agencies: Guangzhou LiSai Metrology & Test Co., Ltd.

☐ (a) Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18-1 of the Radio Act.

☐ (b) Calibration conducted based on the regulations of Article 135 or 144 of the Measurement Act.

☒ (c) Calibration conducted in foreign countries, which is equivalent to calibration conducted by the NICT or a designated calibration agency under Article 102-18-1 of the Radio Act.

☐ (d) Calibration, etc. conducted by using measuring instruments and other facilities listed at the bottom of appended table 3 of the Radio Act, which is to have been calibrated as described in (a) through (c) above.

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



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