



# **TEST REPORT**

Applicant:AKUVOX (XIAMEN) NETWORKS CO., LTD.Address:10/F, No.56 Guanri Road, Software Park II , Xiamen 361009,<br/>ChinaProduct Name:HyPanel PlusFCC ID:2AHCR-PS52V2Standard(s):7CFR Part 15, Subpart E(15.407)<br/>FCC KDB 905462 D02 UNII DFS Compliance Procedures New<br/>Rules v02Report Number:2402V45633E-RF-00F

Report Date: 2024/8/7

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).

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Reviewed By: Gavin Xu Title: RF Engineer

fron Can

Approved By: Ivan Cao Title: EMC Manager

**Bay Area Compliance Laboratories Corp. (Dongguan)** No.12, Pulong East 1<sup>st</sup> Road, Tangxia Town, Dongguan, Guangdong, China

> Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

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## Report No.: 2402V45633E-RF-00F

## **DOCUMENT REVISION HISTORY**

| Revision Number | Report Number      | Description of Revision | Date of Revision |
|-----------------|--------------------|-------------------------|------------------|
| 1.0             | 2402V45633E-RF-00F | Original Report         | 2024/8/7         |

## **1. GENERAL INFORMATION**

## **1.1 Product Description for Equipment under Test (EUT)**

| EUT Name:                                    | HyPanel Plus  |
|--|---|
| EUT Model:                                   | PS52V2  |
| <b>Operation Frequency:</b>                  | 5250-5350MHz:<br>5260-5320 MHz (802.11a/n ht20/ac vht20)<br>5270-5310 MHz(802.11n ht40/ac vht40)<br>5290 MHz(802.11ac vht80)<br>5470-5725MHz:<br>5500-5720 MHz (802.11a/n ht20/ac vht20)<br>5510-5710 MHz(802.11n ht40/vht40)<br>5530-5690MHz(802.11ac vht80) |
| Maximum Average Output Power<br>(Conducted): | 5250-5350MHz:17.38dBm<br>5470-5725MHz:17.19dBm  |
| Modulation Type:                             | 802.11a/n/ac: OFDM-BPSK, QPSK, 16QAM, 64QAM,256QAM  |
| Rated Input Voltage:                         | DC 12V From Base  |
| Serial Number:                               | 2EB1-1  |
| EUT Received Date:                           | 2024/7/4  |
| EUT Received Status:                         | Good  |

## **1.2 Accessory Information:**

| Accessory Description | Manufacturer | Model | Parameters |
|-----------------------|--------------|-------|------------|
| /                     | /            | /     | /          |

### **1.3 Antenna Information Detail \**:

| Antenna M   | anufacturer  | Antenna<br>Type | input impedance<br>(Ohm) | Frequency Range | Antenna<br>Gain |
|---|--|-----------------|--------------------------|-----------------|-----------------|
| Fuzhou JieL   | ei Electronic  | FPC             | 50                       | 5.25~5.35 GHz   | 1.67dBi         |
| Technolog   | gy Co.,Ltd.  | FPC             | 30                       | 5.47~5.725 GHz  | 1.67dBi         |
| The design of compliance with §15.203:  |  |                 |                          |                 |                 |
| $\bowtie$   | Unit uses a permanently attached antenna.                |                 |                          |                 |                 |
|   | Unit uses a unique coupling to the intentional radiator. |                 |                          |                 |                 |
| Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit. |  |                 |                          |                 |                 |

#### **1.4 Equipment Modifications**

No modifications are made to the EUT during all test items.

## 2. DESCRIPTION OF TEST CONFIGURATION

## **2.1 EUT Operation Condition**

| EUT Operation Mode:  | The system was configured for testing in Engineering<br>Mode, which was provided by the manufacturer. |  |
|--|---|--|
| Equipment Modifications:   | No  |  |
| EUT Exercise Software:   | Tfgen   |  |
| WLAN traffic is generated by software "Tfgen", software is used by IP and Frame based systems for loading the test channel during the In-service compliance testing of the U-NII device. Data pakge streamed from the Access Point to the Client using the software "Tfgen". |   |  |

## 2.2 Support Equipment List and Details

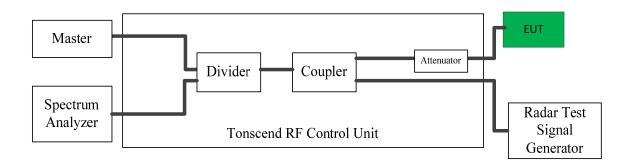
| Manufacturer | Description | Model   | Serial Number     |
|--------------|-------------|---------|-------------------|
| Lenovo       | Laptop      | T430    | AA887-03          |
| Tenda        | Router      | RX12Pro | ED331010215000033 |

Note: The mater Wireless Router FCC ID: V7TRX12P2.

### **2.3 Support Cable List and Details**

| Cable Description | Shielding<br>Type | Ferrite Core | Length<br>(m) | From Port | То |
|-------------------|-------------------|--------------|---------------|-----------|----|
| /                 | /                 | /            | /             | /         | /  |

## 2.4 Block Diagram of Test Setup



#### 2.5 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 829273, the FCC Designation No. : CN5044.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

## **3. SUMMARY OF TEST RESULTS**

The following result table represents the list of measurements required under the KDB: 905462 D02 UNII DFS Compliance Procedures New Rules v02

| Items                                | Description of Test                           | Result         |
|--------------------------------------|---|----------------|
| Detection<br>Bandwidth               | UNII Detection Bandwidth                      | Not applicable |
|                                      | Initial Channel Availability Check Time (CAC) | Not applicable |
| Performance<br>Requirements<br>Check | Radar Burst at the Beginning of the CAC       | Not applicable |
| Check                                | Radar Burst at the End of the CAC             | Not applicable |
|                                      | Channel Move Time                             | Compliant      |
| In-Service<br>Monitoring             | Channel Closing Transmission Time             | Compliant      |
|                                      | Non-Occupancy Period                          | Compliant      |
| Radar Detection                      | Statistical Performance Check                 | Not applicable |

Note:

Not applicable: The EUT is a client unit without radar detection.

## 4. REQUIREMENTS AND TEST PROCEDURES

### 4.1 DFS Requirement

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

| Requirement                     | Operational Mode |   |                                      |
|---------------------------------|------------------|---|--------------------------------------|
|                                 | Master           | Client<br>Without<br>Radar<br>Detection | Client<br>With<br>Radar<br>Detection |
| Non-Occupancy Period            | Yes              | Not<br>required                         | Yes                                  |
| DFS Detection Threshold         | Yes              | Not<br>required                         | Yes                                  |
| Channel Availability Check Time | Yes              | Not<br>required                         | Not<br>required                      |
| U-NII Detection Bandwidth       | Yes              | Not<br>required                         | Yes                                  |

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

## Table 2: Applicability of DFS requirements during normal operation

| Requirement                       | Operational                                     | Operational Mode                  |  |  |
|-----------------------------------|---|-----------------------------------|--|--|
|                                   | Master Device or Client<br>with Radar Detection | Client Without<br>Radar Detection |  |  |
| DFS Detection Threshold           | Yes   | Not required                      |  |  |
| Channel Closing Transmission Time | Yes   | Yes                               |  |  |
| Channel Move Time                 | Yes   | Yes                               |  |  |
| U-NII Detection Bandwidth         | Yes   | Not required                      |  |  |

| Additional requirements for devices  | Master Device or Client   | Client Without        |  |  |  |
|--|---|-----------------------|--|--|--|
| with multiple bandwidth modes  | with Radar Detection  | Radar Detection       |  |  |  |
| U-NII Detection Bandwidth and  | All BW modes must be  | Not required          |  |  |  |
| Statistical Performance Check  | tested  |                       |  |  |  |
| Channel Move Time and Channel  | Test using widest BW mode   | Test using the widest |  |  |  |
| Closing Transmission Time  | available   | BW mode available     |  |  |  |
|  |   | for the link          |  |  |  |
| All other tests  | Any single BW mode  | Not required          |  |  |  |
| Note: Frequencies selected for statistical p   | Note: Frequencies selected for statistical performance check (Section 7.8.4) should include |                       |  |  |  |
| several frequencies within the radar detection bandwidth and frequencies near the edge of  |   |                       |  |  |  |
| the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in |   |                       |  |  |  |
| each of the bonded 20 MHz channe   | ls and the channel center freque  | ency.                 |  |  |  |

#### Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

| Maximum Transmit Power  | Value                              |  |  |  |
|---|------------------------------------|--|--|--|
|   | (See Notes 1, 2, and 3)            |  |  |  |
| $EIRP \ge 200 \text{ milliwatt}$  | -64 dBm                            |  |  |  |
| EIRP < 200 milliwatt and  | -62 dBm                            |  |  |  |
| power spectral density < 10 dBm/MHz   |                                    |  |  |  |
| EIRP < 200 milliwatt that do not meet the power spectral                            | -64 dBm                            |  |  |  |
| density requirement   |                                    |  |  |  |
| Note 1: This is the level at the input of the receiver assuming a 0 dBi             |                                    |  |  |  |
| Note 2: Throughout these test procedures an additional 1 dB has been                | added to the amplitude of the test |  |  |  |
| transmission waveforms to account for variations in measurement equ                 | upment. This will ensure that the  |  |  |  |
| test signal is at or above the detection threshold level to trigger a DFS response. |                                    |  |  |  |
| Note3: EIRP is based on the highest antenna gain. For MIMO device                   | es refer to KDB Publication 662911 |  |  |  |
| D01.  |                                    |  |  |  |

### Table 4: DFS Response Requirement Values

| Parameter                         | Value                  |
|-----------------------------------|------------------------|
| Non-occupancy period              | Minimum 30 minutes     |
| Channel Availability Check Time   | 60 seconds             |
| Channel Move Time                 | 10 seconds             |
|                                   | See Note 1.            |
| Channel Closing Transmission Time | 200 milliseconds + an  |
|                                   | aggregate of 60        |
|                                   | milliseconds over      |
|                                   | remaining 10 second    |
|                                   | period.                |
|                                   | See Notes 1 and 2.     |
| U-NII Detection Bandwidth         | Minimum 100% of the U- |
|                                   | NII 99% transmission   |
|                                   | power bandwidth. See   |
|                                   | Note 3.                |

**Note 1:** Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

**Note 2:** The *Channel Closing Transmission Time* is comprised of 200 milliseconds starting at the beginning of the *Channel Move Time* plus any additional intermittent control signals required to facilitate a *Channel* move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

**Note 3:** During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

|             | Table 5 – Short Pulse Kadar Test waveforms |  |   |                  |            |  |  |
|-------------|--|--|---|------------------|------------|--|--|
| Radar       | Pulse                                      | PRI  | Number of Pulses  | Minimum          | Minimum    |  |  |
| Type        | Width                                      | (µsec)   |   | Percentage of    | Number     |  |  |
|             | (µsec)                                     |  |   | Successful       | of         |  |  |
|             |  |  |   | Detection        | Trials     |  |  |
| 0           | 1  | 1428   | 18  | See Note 1       | See Note   |  |  |
|             |  |  |   |                  | 1          |  |  |
| 1           | 1  | Test A: 15 unique<br>PRI values<br>randomly selected<br>from the list of 23<br>PRI values in<br>Table 5a<br>Test B: 15 unique<br>PRI values<br>randomly selected<br>within the range<br>of 518-3066 µsec,<br>with a minimum<br>increment of 1<br>µsec, excluding<br>PRI values | $\operatorname{Roundup} \left\{ \begin{array}{c} \left(\frac{1}{360}\right) \\ \left(\frac{19 \cdot 10^6}{\operatorname{PRI}_{\mu \operatorname{sec}}}\right) \end{array} \right\}$ | 60%              | 30         |  |  |
| 2           | 1-5  | selected in Test A<br>150-230  | 23-29   | 60%              | 30         |  |  |
| 3           | 6-10                                       | 200-500  | 16-18   | 60%              | 30         |  |  |
| 4           | 11-20                                      | 200-500  | 12-16   | 60%              | 30         |  |  |
|             |  |  | 12-10   | 80%              | 120        |  |  |
|             | (Radar Types                               |  | 10 1 1 1  |                  |            |  |  |
| Note 1: She | ort Puise Kada                             | ar Type 0 should be u  | used for the detection ba   | ndwidth test, ch | annel move |  |  |

|--|

**Note 1:** Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

For example if in Short Pulse Radar Type 1 Test B a PRI of 3066 usec is selected, the number of pulses

would be Roundup  $\left\{ \left(\frac{1}{360}\right) \cdot \left(\frac{19 \cdot 10^6}{3066}\right) \right\} = \text{Roundup}\{17.2\} = 18.$ 

| Pulse Repetition<br>Frequency<br>Number | Pulse Repetition Frequency<br>(Pulses Per Second) | Pulse Repetition<br>Interval<br>(Microseconds) |
|---|---|--|
| 1                                       | 1930.5  | 518  |
| 2                                       | 1858.7  | 538  |
| 3                                       | 1792.1  | 558  |
| 4                                       | 1730.1  | 578  |
| 5                                       | 1672.2  | 598  |
| б                                       | 1618.1  | 618  |
| 7                                       | 1567.4  | 638  |
| 8                                       | 1519.8  | 658  |
| 9                                       | 1474.9  | 678  |
| 10                                      | 1432.7  | 698  |
| 11                                      | 1392.8  | 718  |
| 12                                      | 1355  | 738  |
| 13                                      | 1319.3  | 758  |
| 14                                      | 1285.3  | 778  |
| 15                                      | 1253.1  | 798  |
| 16                                      | 1222.5  | 818  |
| 17                                      | 1193.3  | 838  |
| 18                                      | 1165.6  | 858  |
| 19                                      | 1139  | 878  |
| 20                                      | 1113.6  | 898  |
| 21                                      | 1089.3  | 918  |
| 22                                      | 1066.1  | 938  |
| 23                                      | 326.2   | 3066   |

#### Table 5a - Pulse Repetition Intervals Values for Test A

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

| Radar Type                                    | Number of Trials | Number of Successful<br>Detections | Minimum Percentage<br>of Successful |  |  |
|---|------------------|------------------------------------|-------------------------------------|--|--|
|   |                  |                                    | Detection                           |  |  |
| 1   | 35               | 29                                 | 82.9%                               |  |  |
| 2   | 30               | 18                                 | 60%                                 |  |  |
| 3   | 30               | 27                                 | 90%                                 |  |  |
| 4   | 50               | 44                                 | 88%                                 |  |  |
| Aggregate (82.9% + 60% + 90% + 88%)/4 = 80.2% |                  |                                    |                                     |  |  |

|       |        | 10.   | JIC U LUI | ig i uist ituta | ar rest trave | .ioi m        |           |
|-------|--------|-------|-----------|-----------------|---------------|---------------|-----------|
| Radar | Pulse  | Chirp | PRI       | Number          | Number        | Minimum       | Minimum   |
| Type  | Width  | Width | (µsec)    | of Pulses       | of Bursts     | Percentage of | Number of |
|       | (µsec) | (MHz) |           | per Burst       |               | Successful    | Trials    |
|       |        |       |           | _               |               | Detection     |           |
| 5     | 50-100 | 5-20  | 1000-     | 1-3             | 8-20          | 80%           | 30        |
|       |        |       | 2000      |                 |               |               |           |

### Table 6 – Long Pulse Radar Test Waveform

|       | Table 7 – Frequency Hopping Kadar Test waveform |        |        |         |          |               |           |
|-------|---|--------|--------|---------|----------|---------------|-----------|
| Radar | Pulse   | PRI    | Pulses | Hopping | Hopping  | Minimum       | Minimum   |
| Type  | Width   | (µsec) | per    | Rate    | Sequence | Percentage of | Number of |
|       | (µsec)  |        | Hop    | (kHz)   | Length   | Successful    | Trials    |
|       |   |        | _      |         | (msec)   | Detection     |           |
| 6     | 1   | 333    | 9      | 0.333   | 300      | 70%           | 30        |

#### Table 7 – Frequency Hopping Radar Test Waveform

#### 4.2 Test Procedure

A spectrum analyzer is used as a monitor verifies that the EUT status including Channel Closing Transmission Time and Channel Move Time, and does not transmit on a Channel during the Non-Occupancy Period after the diction and Channel move.

## **5. Test DATA AND RESULTS**

| Serial Number: | 2EB1-1      | Test Date:   | 2024/7/15 |
|----------------|-------------|--------------|-----------|
| Test Site:     | RF          | Test Mode:   | Traffic   |
| Tester:        | Harper Shen | Test Result: | Pass      |

| Environmental Conditions: |      |                              |    |                       |       |
|---------------------------|------|------------------------------|----|-----------------------|-------|
| Temperature:<br>(℃)       | 25.6 | Relative<br>Humidity:<br>(%) | 52 | ATM Pressure:<br>(kPa | 100.9 |

#### Test Equipment List and Details:

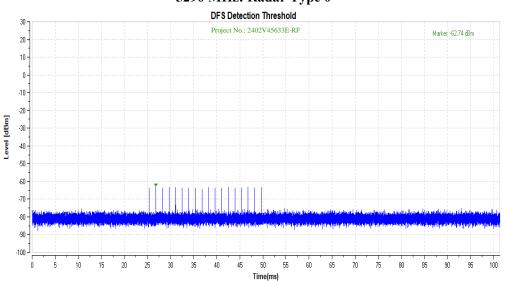
| Manufacturer | Description                    | Model                 | Serial<br>Number | Calibration<br>Date | Calibration Due<br>Date |
|--------------|--------------------------------|-----------------------|------------------|---------------------|-------------------------|
| Agilent      | MXG Vector<br>Signal Generator | N5182A                | MY49060274       | 2023/10/18          | 2024/10/17              |
| Agilent      | MXG Analog<br>Signal Generator | N5181A                | MY48180151       | 2023/10/18          | 2024/10/17              |
| Keysight     | MXA Signal<br>Analyzer         | N9020A                | MY48490106       | 2023/10/18          | 2024/10/17              |
| Tonscend     | RF Control Unit                | JS0806-2              | 19G8060171       | 2023/10/18          | 2024/10/17              |
| HUBER+SUHNER | Coaxial<br>Attenuator          | 6610_SMA-50-1         | 0064             | 2024/6/13           | 2025/6/13               |
| HUBER+SUHNER | Coaxial<br>Attenuator          | 6610_SMA-50-1         | 0069             | 2024/6/13           | 2025/6/13               |
| Eastsheep    | Coaxial<br>Attenuator          | 2W-SMA-JK-6G-<br>10dB | F-08-EM509       | 2024/6/7            | 2025/6/7                |

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

## 5.1 Radar Waveform Calibration

| Test Mode | Frequency<br>[MHz] | Radar Type | Result<br>[dBm] |
|-----------|--------------------|------------|-----------------|
| 80M       | 5290               | Type0      | -62.74          |

#### Plots of Radar Waveforms



### 5290 MHz: Radar Type 0

#### 5.2 Channel Move Time And Channel Closing Transmission Time

#### 5.2.1 Test Procedure

Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

The aggregate channel closing transmission time is calculated as follows:

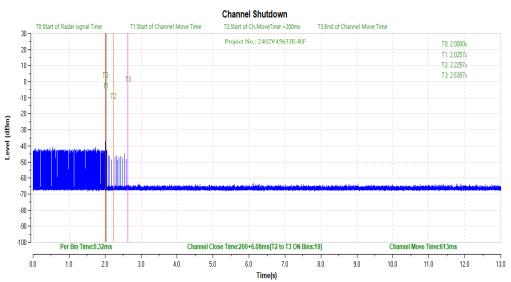
Aggregate Transmission Time = N\*Dwell Time

N is the number of spectrum analyzer bins showing a device transmission Dwell Time is the dwell time per bin (i.e. Dwell Time = S/B, S is the sweep time and B is the number of bin, i.e. 8192)

#### 5.2.2 Test Results

| Test Mode  | Frequency<br>[MHz] | CCTT<br>[ms] | Limit<br>[ms] | CMT<br>[ms] | Limit<br>[ms] | Verdict |
|------------|--------------------|--------------|---------------|-------------|---------------|---------|
| 11AC80SISO | 5290               | 200+6.08     | 200+60        | 613         | 10000         | PASS    |

Please refer to the following tables and plots.



#### 5290 MHz

#### 5.3 Non-occupancy Period

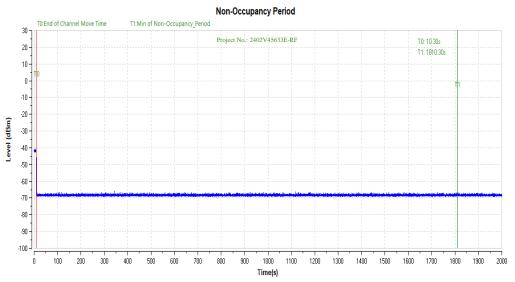
#### 5.3.1 Test Procedure

Measure the EUT for more than 30 minutes following the channel close/move time to very that the EUT does not resume any transmissions on this channel. Provide one plot to demonstrate no transmission on the channel for the non-occupancy period (30 minutes observation time)

#### 5.3.2 Test Result

| Test Mode  | Frequency<br>[MHz] | Result         | Limit<br>[s] | Verdict |
|------------|--------------------|----------------|--------------|---------|
| 11AC80SISO | 5290               | see test graph | ≥1800        | PASS    |

Please refer to the following plots.



### 5290 MHz

## **EXHIBIT A - EUT PHOTOGRAPHS**

Please refer to the attachment 2402V45633E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2402V45633E-RF-INP EUT INTERNAL PHOTOGRAPHS.

## **EXHIBIT B - TEST SETUP PHOTOGRAPHS**

Please refer to the attachment 2402V45633E-RF-00F-TSP TEST SETUP PHOTOGRAPHS.

\*\*\*\*\* END OF REPORT \*\*\*\*\*

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