

## RF MEASUREMENT REPORT

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**FCC ID** : 2AXJ4EAP115BRG

**Applicant** : TP-Link Corporation Limited

**Application Type** : Certification

**Product** : 5GHz 300Mbps Long-range Indoor/Outdoor Access Point

**Model No.** : EAP115-Bridge

**Brand Name** : tp-link

**FCC Classification** : Unlicensed National Information Infrastructure (NII)

**FCC Rule Part(s)** : Part15 Subpart E (Section 15.407)

**Received Date** : November 3, 2023

**Test Date** : November 13, 2023 ~ November 22, 2023

**Test By** : Owen Tsai

( Owen Tsai )



**Reviewed By** : Paddy Chen

( Paddy Chen )



**Approved By** : Chenz Ker

( Chenz Ker )

The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 789033 D02v02r01. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Taiwan) Co., Ltd.

## Revision History

| Report No.    | Version | Description     | Issue Date | Note  |
|---------------|---------|-----------------|------------|-------|
| 2311TW0104-U2 | 1.0     | Original Report | 2024-01-05 | Valid |

## CONTENTS

| Description   | Page |
|---|------|
| <b>General Information</b>                                | 6    |
| <b>1. INTRODUCTION</b>                                    | 7    |
| 1.1. Scope .....  | 7    |
| 1.2. MRT Test Location .....                              | 7    |
| <b>2. PRODUCT INFORMATION</b>                             | 8    |
| 2.1. Equipment Description.....                           | 8    |
| 2.2. Product Specification Subjective to this Report..... | 8    |
| 2.3. Working Frequencies for this report .....            | 9    |
| 2.4. Description of Available Antennas.....               | 9    |
| 2.5. Test Mode .....                                      | 10   |
| 2.6. Configuration of Test System.....                    | 10   |
| 2.7. Test System Details.....                             | 11   |
| 2.8. Description of Test Software .....                   | 11   |
| 2.9. Applied Standards .....                              | 11   |
| 2.10. Duty Cycle .....                                    | 12   |
| 2.11. Test Configuration .....                            | 13   |
| 2.12. EMI Suppression Device(s)/Modifications.....        | 13   |
| 2.13. Labeling Requirements.....                          | 13   |
| <b>3. DESCRIPTION OF TEST</b>                             | 14   |
| 3.1. Evaluation Procedure .....                           | 14   |
| 3.2. AC Line Conducted Emissions .....                    | 14   |
| 3.3. Radiated Emissions .....                             | 15   |
| <b>4. ANTENNA REQUIREMENTS</b>                            | 16   |
| <b>5. TEST EQUIPMENT CALIBRATION DATE</b>                 | 17   |
| <b>6. MEASUREMENT UNCERTAINTY</b>                         | 18   |
| <b>7. TEST RESULT</b>                                     | 19   |
| 7.1. Summary .....  | 19   |
| 7.2. 26dB Bandwidth Measurement.....                      | 20   |
| 7.2.1. Test Limit .....                                   | 20   |
| 7.2.2. Test Procedure used.....                           | 20   |
| 7.2.3. Test Setting.....                                  | 20   |
| 7.2.4. Test Setup .....                                   | 20   |
| 7.2.5. Test Result.....                                   | 21   |

|        |   |     |
|--------|---|-----|
| 7.3.   | 6dB Bandwidth Measurement.....                  | 25  |
| 7.3.1. | Test Limit .....                                | 25  |
| 7.3.2. | Test Procedure used.....                        | 25  |
| 7.3.3. | Test Setting.....                               | 25  |
| 7.3.4. | Test Setup .....                                | 25  |
| 7.3.5. | TestResult.....                                 | 26  |
| 7.4.   | Output Power Measurement .....                  | 29  |
| 7.4.1. | Test Limit .....                                | 29  |
| 7.4.2. | Test Procedure Used .....                       | 29  |
| 7.4.3. | Test Setting.....                               | 29  |
| 7.4.4. | Test Setup .....                                | 29  |
| 7.4.5. | Test Result.....                                | 30  |
| 7.5.   | Power Spectral Density Measurement.....         | 32  |
| 7.5.1. | Test Limit .....                                | 32  |
| 7.5.2. | Test Procedure Used .....                       | 32  |
| 7.5.3. | Test Setting.....                               | 32  |
| 7.5.4. | Test Setup .....                                | 33  |
| 7.5.5. | Test Result.....                                | 34  |
| 7.6.   | Frequency Stability Measurement.....            | 42  |
| 7.6.1. | Test Limit .....                                | 42  |
| 7.6.2. | Test Limit .....                                | 42  |
| 7.6.3. | Test Setup .....                                | 43  |
| 7.6.4. | Test Result.....                                | 43  |
| 7.7.   | Radiated Spurious Emission Measurement .....    | 44  |
| 7.7.1. | Test Limit .....                                | 44  |
| 7.7.2. | Test Procedure Used .....                       | 44  |
| 7.7.3. | Test Setting.....                               | 44  |
| 7.7.4. | Test Setup .....                                | 46  |
| 7.7.5. | Test Result.....                                | 47  |
| 7.8.   | Radiated Restricted Band Edge Measurement ..... | 83  |
| 7.8.1. | Test Limit .....                                | 83  |
| 7.8.2. | Test Procedure Used .....                       | 84  |
| 7.8.3. | Test Setting.....                               | 84  |
| 7.8.4. | Test Setup .....                                | 85  |
| 7.8.5. | Test Result.....                                | 86  |
| 7.9.   | AC Conducted Emissions Measurement.....         | 110 |
| 7.9.1. | Test Limit .....                                | 110 |
| 7.9.2. | Test Setup .....                                | 110 |
| 7.9.3. | Test Result.....                                | 111 |

|   |            |
|---|------------|
| <b>8. CONCLUSION.....</b>                       | <b>115</b> |
| <b>Appendix A : Test Setup Photograph .....</b> | <b>116</b> |
| <b>Appendix B : EUT Photograph.....</b>         | <b>116</b> |
| <b>Appendix C : Internal Photograph .....</b>   | <b>116</b> |

## General Information

|                                 |  |
|---------------------------------|--|
| <b>Applicant</b>                | TP-Link Corporation Limited  |
| <b>Applicant Address</b>        | Room 901, 9/F., New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hongkong |
| <b>Manufacturer</b>             | TP-Link Corporation Limited  |
| <b>Manufacturer Address</b>     | Room 901, 9/F., New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hongkong |
| <b>Test Site</b>                | MRT Technology (Taiwan) Co., Ltd   |
| <b>Test Site Address</b>        | No. 38, Fuxing Second Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C)                     |
| <b>MRT FCC Registration No.</b> | 291082   |
| <b>FCC Rule Part(s)</b>         | Part 15.407  |

## Test Facility / Accreditations

1. MRT facility is a FCC registered (Reg. No. 291082) test facility with the site description report on file and is designated by the FCC as an Accredited Test Firm.
2. MRT facility is an IC registered (MRT Reg. No. 21723) test laboratory with the site description on file at Industry Canada.
3. MRT Lab is accredited to ISO 17025 by the Taiwan Accreditation Foundation (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC (Designation Number: TW3261), Industry Canada, EU and TELEC Rules.

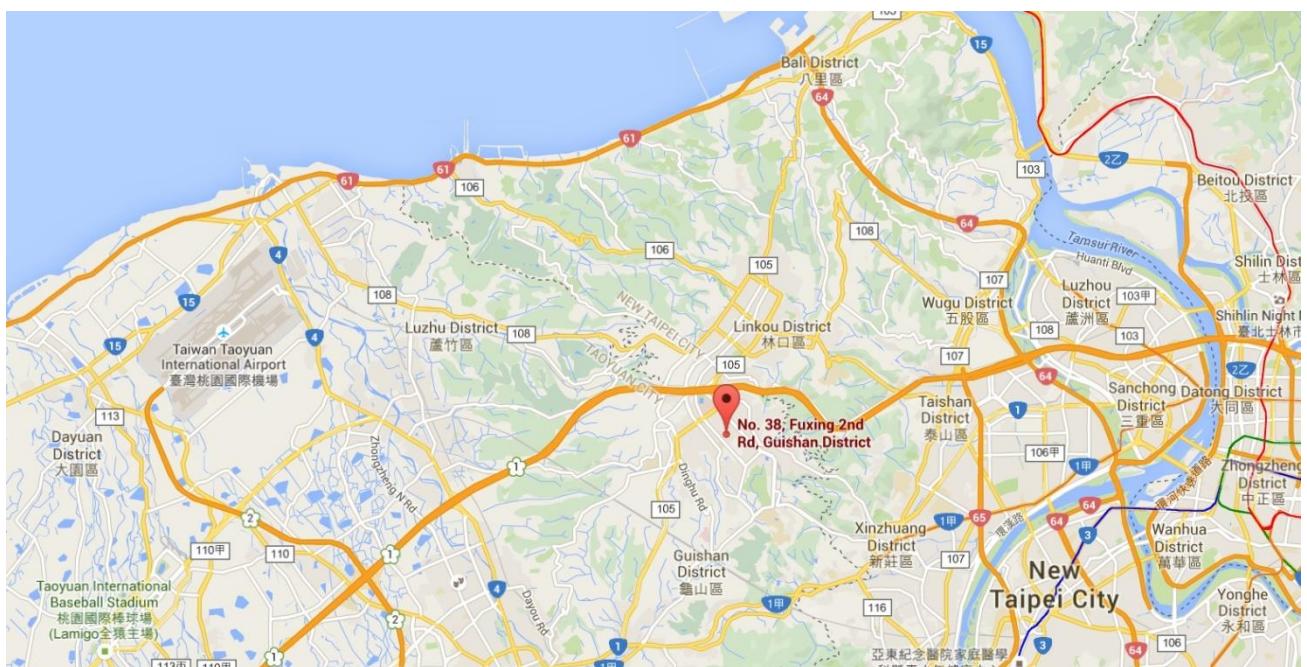
## 1. INTRODUCTION

### 1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada and Certification and Engineering Bureau.

### 1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taoyuan City. These measurement tests were conducted at the MRT Technology (Taiwan) Co., Ltd. Facility located at No.38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan (R.O.C).



## 2. PRODUCT INFORMATION

### 2.1. Equipment Description

|                       |   |
|-----------------------|---|
| Product Name:         | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point   |
| Model No.:            | EAP115-Bridge   |
| Brand Name:           | tp-link   |
| Wi-Fi Specification:  | 802.11a/n   |
| EUTIdentificationNo.: | #1-1 (Conducted)<br>#1-2 (Radiated)   |
| Accessory             |   |
| Adapter               | Brand: tp-link<br>Model No: TL-POE2412G<br>Input: AC 100-240V~0.4A, 50-60Hz<br>Output: 24.0V=0.5A 12.0W |

### 2.2. Product Specification Subjective to this Report

|                     |  |
|---------------------|--|
| Frequency Range:    | For 802.11a/n-HT20:<br>5180~5240MHz, 5745~5825MHz<br>For 802.11n-HT40:<br>5190~5230MHz, 5755~5795MHz |
| Type of Modulation: | 802.11a/n: OFDM  |
| Data Rate:          | 802.11a: 6/9/12/18/24/36/48/54Mbps<br>802.11n: up to 300Mbps   |

Note: For other features of this EUT, test report will be issued separately.

## 2.3. Working Frequencies for this report

802.11a/n-HT20

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 36      | 5180 MHz  | 40      | 5200 MHz  | 44      | 5220 MHz  |
| 48      | 5240 MHz  | 149     | 5745 MHz  | 153     | 5765 MHz  |
| 157     | 5785 MHz  | 161     | 5805 MHz  | 165     | 5825 MHz  |

802.11n-HT40

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 38      | 5190 MHz  | 46      | 5230 MHz  | 151     | 5755 MHz  |
| 159     | 5795 MHz  | N/A     | N/A       | N/A     | N/A       |

## 2.4. Description of Available Antennas

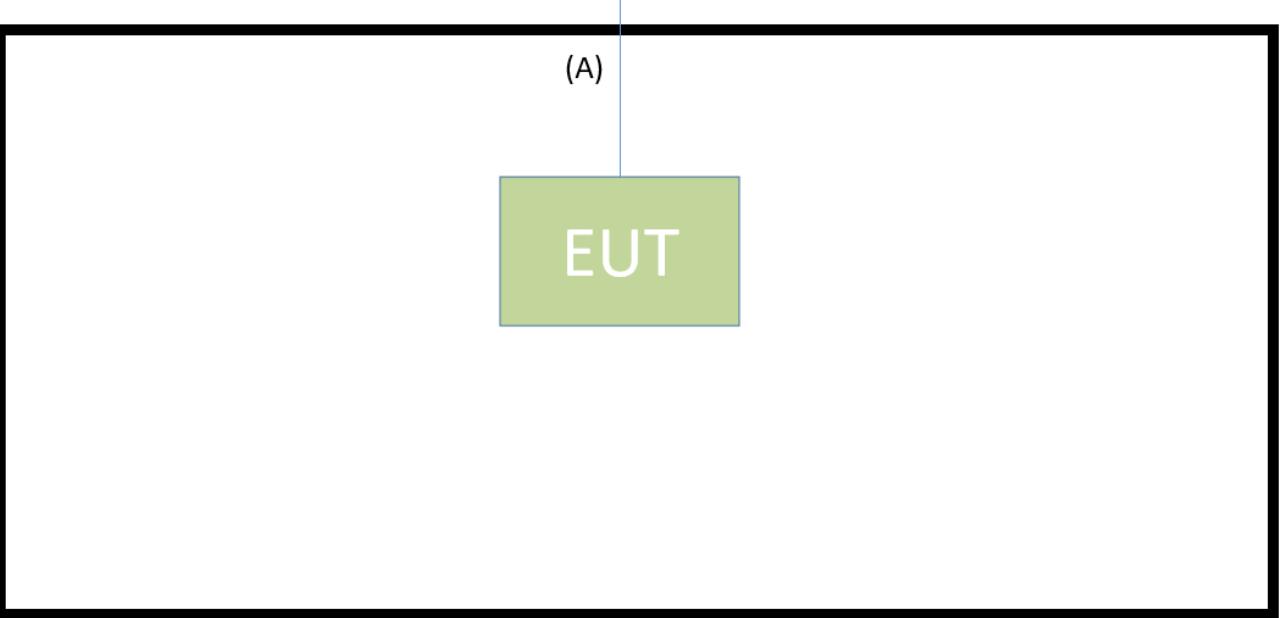
| Antenna Type  | Frequency Band (MHz) | Tx Paths | Number of spatial streams | Antenna Gain (dBi) | CDD Directional Gain (dBi) |         |
|---|----------------------|----------|---------------------------|--------------------|----------------------------|---------|
|   |                      |          |                           |                    | For Power                  | For PSD |
| Microstrip  | 5150 ~ 5250          | 2        | 1                         | 7.90               | 7.90                       | 10.91   |
|   | 5725 ~ 5850          | 2        | 1                         | 7.44               | 7.44                       | 10.45   |
| Antenna Gain (at any elevation angle above 30 degrees)  |                      |          |                           |                    |                            |         |
| Microstrip  | 5150 ~ 5250          | 2        | 1                         | -2.03              | -2.03                      | 0.98    |
| Note:   |                      |          |                           |                    |                            |         |
| 1. The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.<br>If all antennas have the same gain, $G_{ANT}$ , Directional gain = $G_{ANT} + \text{Array Gain}$ , where Array Gain is as follows.  |                      |          |                           |                    |                            |         |
| <ul style="list-style-type: none"> <li>For power spectral density (PSD) measurements on all devices,<br/><math>\text{Array Gain} = 10 \log (N_{ANT}/ N_{SS}) \text{ dB};</math></li> <li>For power measurements on IEEE 802.11 devices,<br/><math>\text{Array Gain} = 0 \text{ dB for } N_{ANT} \leq 4;</math></li> </ul> |                      |          |                           |                    |                            |         |
| 2. The information as above is from the AUT report.   |                      |          |                           |                    |                            |         |

## 2.5. Test Mode

| CDD Mode   |
|--|
| Mode 1: Transmit by 802.11a_Nss=1 (6Mbps) (CDD mode)   |
| Mode 2: Transmit by 802.11n-HT20_Nss=1 (MCS0) (CDD mode)   |
| Mode 3: Transmit by 802.11n-HT40_Nss=1 (MCS0) (CDD mode)   |
| Remark:  |
| 1. For Radiated emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.   |
| 2. This device supports 2 N <sub>ss</sub> and power level of 2 N <sub>ss</sub> is less than or equal to the power of 1 N <sub>ss</sub> . The worst case is N <sub>ss</sub> =1. |

## 2.6. Configuration of Test System

The device was tested per the guidance ANSI C63.10: 2013 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.

| Connection Diagram   |                   |                    |
|--|-------------------|--------------------|
|  |                   |                    |
| Cable Type   | Cable Description |                    |
| A  | LAN Cable         | Non shielded, 3.0m |

## 2.7. Test System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

| Product       | Manufacturer | Model No. | Serial No. | Power Cord         |
|---------------|--------------|-----------|------------|--------------------|
| 1 Notebook PC | Lenovo       | 20SL      | N/A        | Non-Shielded, 0.8m |

## 2.8. Description of Test Software

The test utility software used during testing was “Tera Term v4.98”.

Note: Final power setting please refer to operational description.

## 2.9. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15.247
- KDB 789033 D02v02r01,
- KDB 662911 D01v02r01
- ANSI C63.10-2013

## 2.10. Duty Cycle

5GHz (NII) operation is possible in 20MHz and 40MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 10MHz, VBW = 10MHz. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

| Test Mode    | Duty Cycle |
|--------------|------------|
| 802.11a      | 99.03%     |
| 802.11n-HT20 | 98.95%     |
| 802.11n-HT40 | 98.11%     |



## **2.11. Test Configuration**

The device was tested per the guidance of KDB 789033 D02v02r01. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

## **2.12. EMI Suppression Device(s)/Modifications**

No EMI suppression device(s) were added and/or no modifications were made during testing.

## **2.13. Labeling Requirements**

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlets supplied to the user and be readily visible to the purchaser at the time of purchase.

However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

### 3. DESCRIPTION OF TEST

#### 3.1. Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided in KDB 789033 D02v02r01 were used in the measurement.

#### 3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that those cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

### 3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. A MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remotecontrolled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB Beam-Width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

## 4. ANTENNA REQUIREMENTS

### **Excerpt from §15.203 of the FCC Rules/Regulations:**

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

- The antenna of the device is **permanently attached**.
- There are no provisions for connection to an external antenna.

### **Conclusion:**

The unit complies with the requirement of §15.203.

## 5. TEST EQUIPMENT CALIBRATION DATE

### Conducted Emissions

| Instrument         | Manufacturer | Type No. | Asset No.   | Cali. Interval | Cali. Due Date |
|--------------------|--------------|----------|-------------|----------------|----------------|
| Two-Line V-Network | R&S          | ENV216   | MRTTWA00019 | 1 year         | 2024/3/7       |
| Two-Line V-Network | R&S          | ENV216   | MRTTWA00020 | 1 year         | 2024/4/17      |
| EMI Test Receiver  | R&S          | ESR3     | MRTTWA00045 | 1 year         | 2024/5/10      |

### Radiated Emissions

| Instrument                 | Manufacturer                | Type No.              | Asset No.   | Cali. Interval | Cali. Due Date |
|----------------------------|-----------------------------|-----------------------|-------------|----------------|----------------|
| Acitive Loop Antenna       | SCHWARZBECK                 | FMZB 1519B            | MRTTWA00002 | 1 year         | 2024/5/22      |
| Broadband TRILOG Antenna   | SCHWARZBECK                 | VULB 9162             | MRTTWA00001 | 1 year         | 2024/10/31     |
| Broadband Hornantenna      | RFSPIN                      | DRH18-E               | MRTTWA00087 | 1 year         | 2024/5/17      |
| Broadband Preamplifier     | EMC Instruments corporation | EMC118A45SE           | MRTTWA00088 | 1 year         | 2024/5/17      |
| Breitband Hornantenna      | SCHWARZBECK                 | BBHA 9170             | MRTTWA00004 | 1 year         | 2024/3/20      |
| Broadband Amplifier        | SCHWARZBECK                 | BBV 9721              | MRTTWA00006 | 1 year         | 2024/3/27      |
| EMI Test Receiver          | R&S                         | ESR3                  | MRTTWA00009 | 1 year         | 2024/3/8       |
| Signal Analyzer            | R&S                         | FSVA3044              | MRTTWA00092 | 1 year         | 2024/6/29      |
| Antenna Cable              | HUBERSUHNER                 | SF106                 | MRTTWE00034 | 1 year         | 2024/6/26      |
| Cable                      | HUBERSUHNER                 | EMC105-NM-N<br>M-3000 | MRTTWE00035 | 1 year         | 2024/6/26      |
| Temperature/Humidity Meter | TFA                         | 35.1078.10.IT         | MRTTWA00032 | 1 year         | 2024/6/4       |

### Conducted Test Equipment

| Instrument                                 | Manufacturer | Type No. | Asset No.   | Cali. Interval | Cali. Due Date |
|--|--------------|----------|-------------|----------------|----------------|
| X-Series USB Peak and Average Power Sensor | KEYSIGHT     | U2021XA  | MRTTWA00014 | 1 year         | 2024/4/19      |
| EXA Signal Analyzer                        | KEYSIGHT     | N9010A   | MRTTWA00012 | 1 year         | 2024/10/17     |
| EXA Signal Analyzer                        | KEYSIGHT     | N9010B   | MRTTWA00074 | 1 year         | 2024/7/19      |
| Attenuator                                 | WTI          | 218FS-20 | MRTTWE00026 | 1 year         | 2024/11/1      |
| Attenuator                                 | WTI          | 218FS-10 | MRTTWE00027 | 1 year         | 2024/6/14      |
| Temperature & Humidity Chamber             | TEN BILLION  | TTH-B3UP | MRTTWA00036 | 1 year         | 2024/6/11      |
| DIVA PLUS Funk-Wetterstation               | TFA          | 35.1083  | MRTTWA00050 | 1 year         | 2024/6/15      |

| Software | Version   | Function          |
|----------|-----------|-------------------|
| e3       | 9.160520a | EMI Test Software |

## 6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

|  |
|--|
| AC Conducted Emission Measurement  |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_{c(y)}$ ):<br>150kHz~30MHz: $\pm 2.53\text{dB}$                                     |
| Radiated Emission Measurement  |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_{c(y)}$ ):<br>9kHz ~ 1GHz: $\pm 4.25\text{dB}$<br>1GHz ~ 40GHz: $\pm 4.45\text{dB}$ |
| Conducted Power (Carrier Power / Power Density)  |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_{c(y)}$ ): $\pm 0.84\text{dB}$  |
| Conducted Spurious Emission  |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_{c(y)}$ ): $\pm 2.65\text{ dB}$   |
| Occupied Bandwidth   |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_{c(y)}$ ): $\pm 3.3\%$  |
| Temp. / Humidity   |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_{c(y)}$ ): $\pm 0.82^\circ\text{C} / \pm 3\%$                                       |
| Frequency Error  |
| Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_{c(y)}$ ): $\pm 78.4\text{Hz}$  |

## 7. TEST RESULT

### 7.1. Summary

| FCC Section(s)                            | Test Description  | Test Limit   | Test Condition | Test Result | Reference         |
|---|---|--|----------------|-------------|-------------------|
| 15.407(a)                                 | 26dB Bandwidth  | N/A  | Conducted      | Pass        | Section 7.2       |
| 15.407(e)                                 | 6dB Bandwidth   | $\geq 500\text{kHz}$   |                | Pass        | Section 7.3       |
| 15.407(a)(1)(ii), (3)                     | Maximum Conducted Output Power  | Refer to section 7.4   |                | Pass        | Section 7.4       |
| 15.407(a)(1)(ii), (3), (12)               | Peak Power Spectral Density   | Refer to section 7.5   |                | Pass        | Section 7.5       |
| 15.407(g)                                 | Frequency Stability   | N/A  |                | Pass        | Section 7.6       |
| 15.407(b)(1), (4)(i)                      | Undesirable Emissions   | Refer to Section 7.7   | Radiated       | Pass        | Section 7.7 & 7.8 |
| 15.205, 15.209<br>15.407(b)(8), (9), (10) | General Field Strength Limits (Restricted Bands and Radiated Emission Limits) | Emissions in restricted bands must meet the radiated limits detailed in 15.209 |                | Pass        |                   |
| 15.207                                    | AC Conducted Emissions<br>150kHz - 30MHz                                      | < FCC 15.207 limits  | Line Conducted | Pass        | Section 7.9       |

Notes:

- 1) Determining compliance is based on the test results met the regulation limits or requirements declared by clients, and the test results don't take into account the value of measurement uncertainty.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 3) When applicable, for radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.

## 7.2. 26dB Bandwidth Measurement

### 7.2.1. Test Limit

N/A

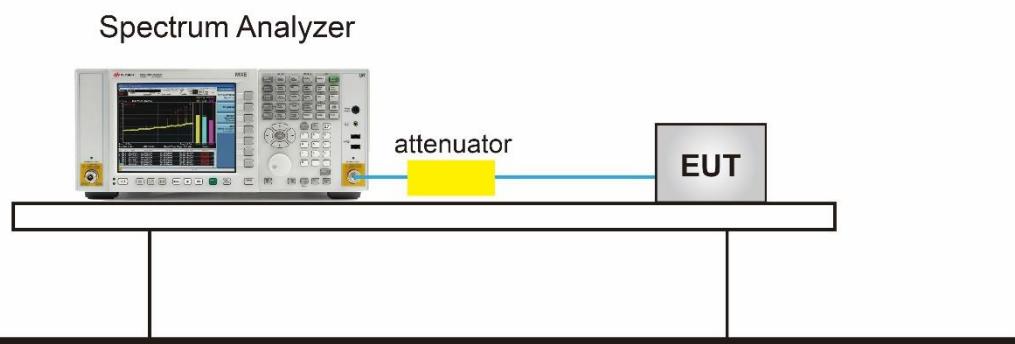
### 7.2.2. Test Procedure used

KDB 789033 D02v02r01- Section C.1

### 7.2.3. Test Setting

1. The analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 26. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediated power nulls in the fundamental emission.
2. RBW = approximately 1% of the emission bandwidth.
3. VBW  $\geq 3 \times$  RBW.
4. Detector = Peak.
5. Trace mode = max hold.

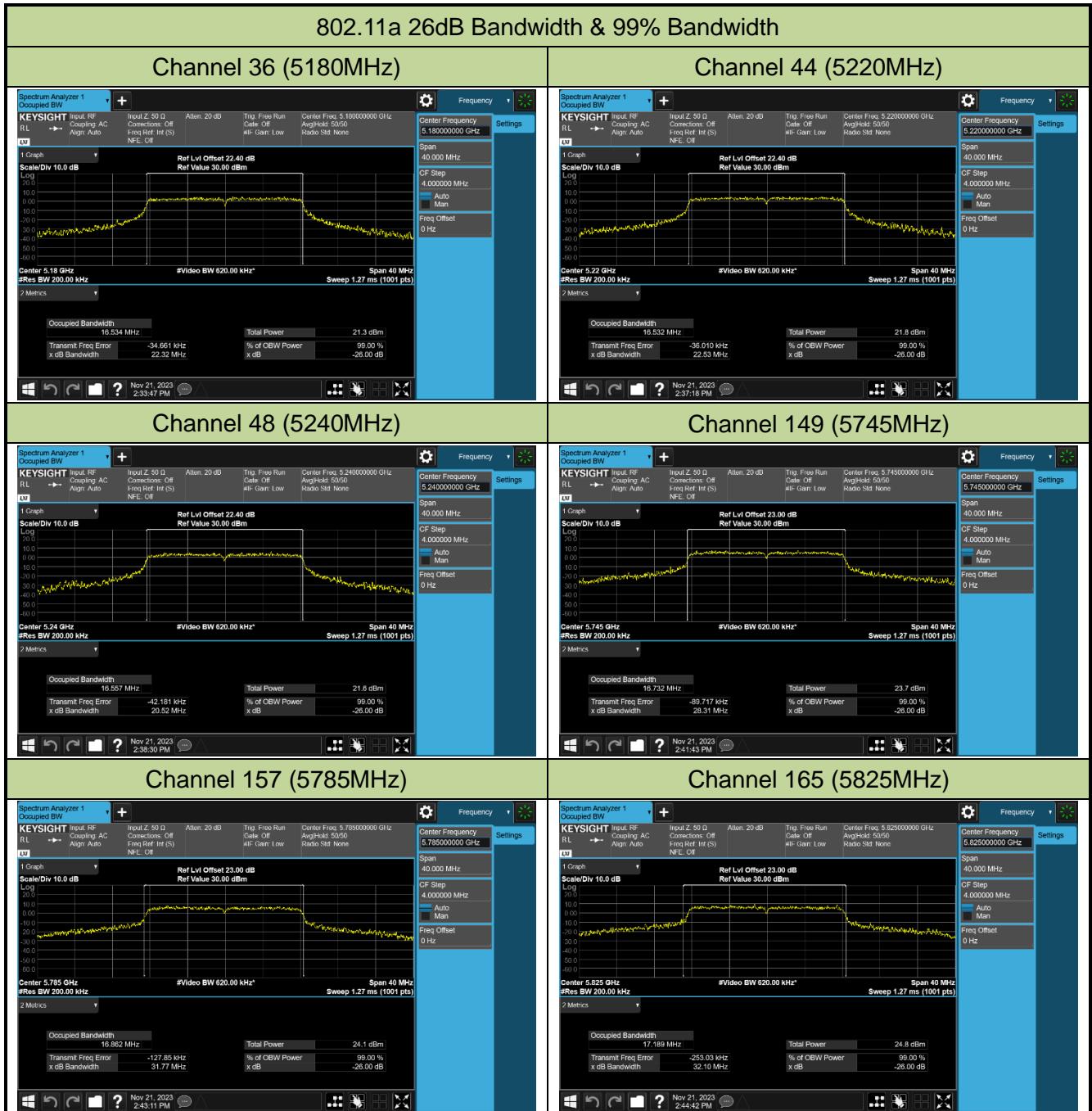
### 7.2.4. Test Setup

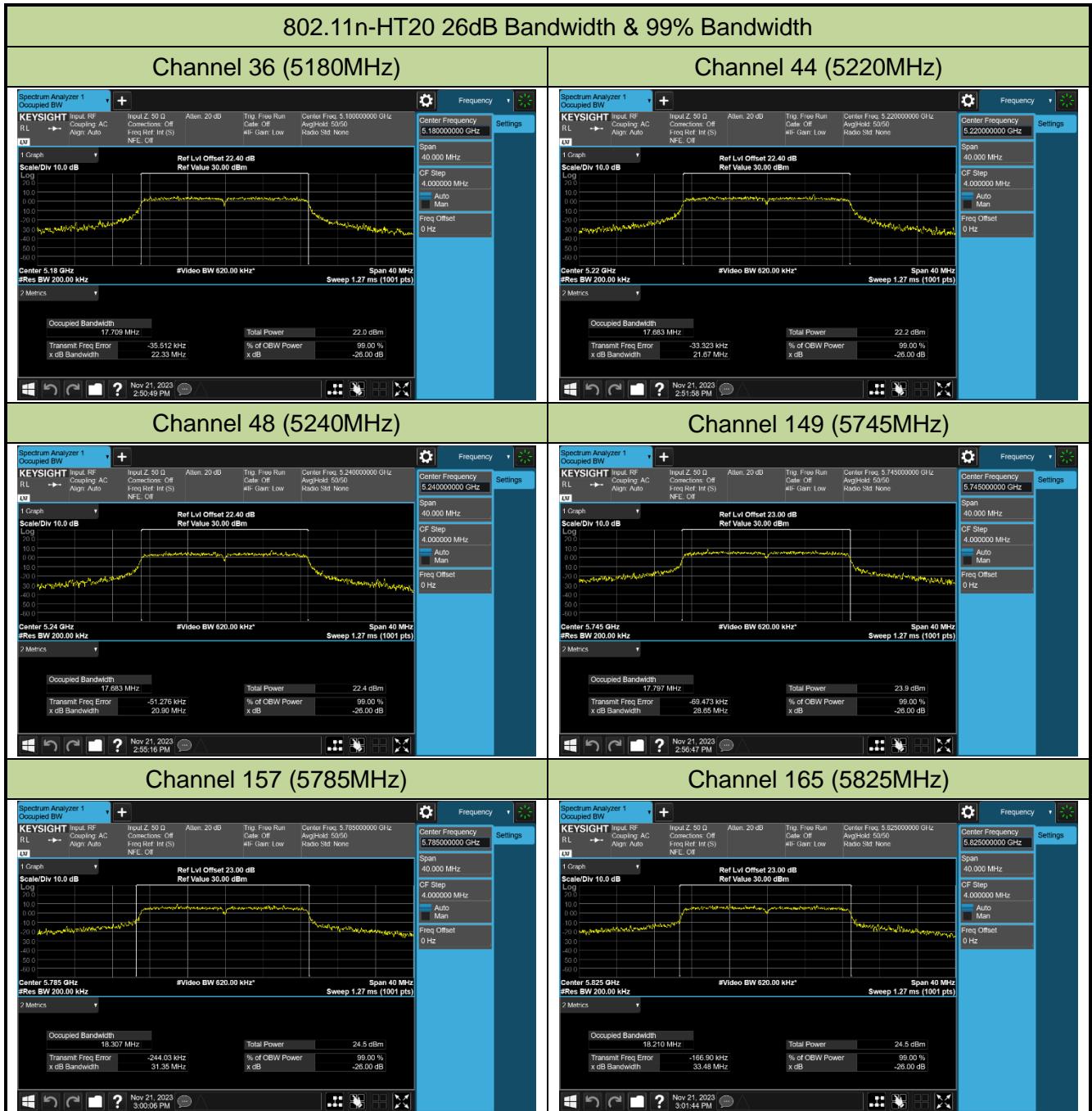


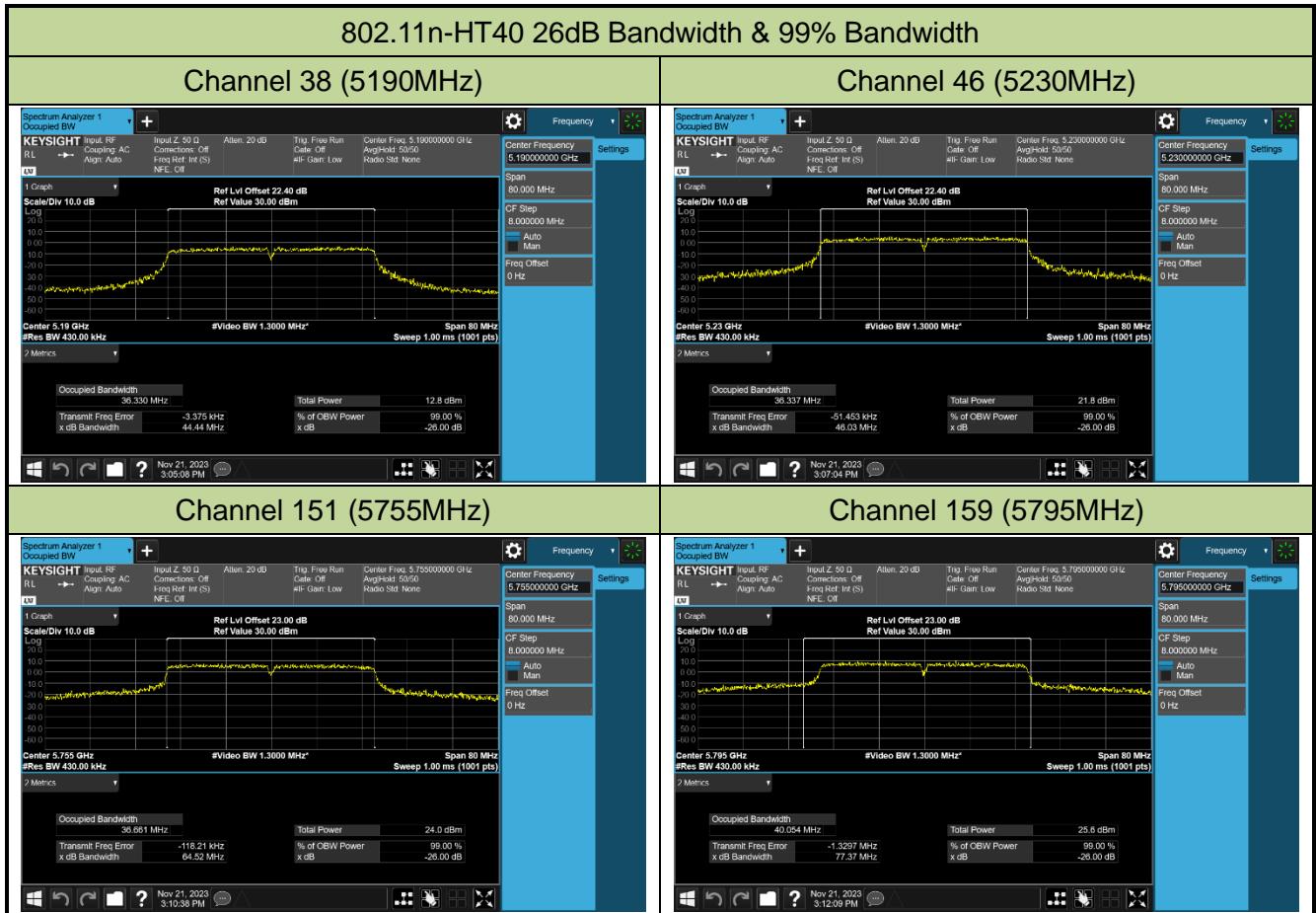
### 7.2.5. Test Result

|           |   |               |            |
|-----------|---|---------------|------------|
| Product   | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Test Engineer | Xuan Yu    |
| Test Site | SR5   | Test Date     | 2023/11/21 |

| Test Mode    | Data Rate/<br>MCS | Channel No. | Frequency<br>(MHz) | 26dB Bandwidth<br>(MHz) | 99% Bandwidth<br>(MHz) |
|--------------|-------------------|-------------|--------------------|-------------------------|------------------------|
| Ant 1        |                   |             |                    |                         |                        |
| 802.11a      | 6Mbps             | 36          | 5180               | 22.320                  | 16.534                 |
| 802.11a      | 6Mbps             | 44          | 5220               | 22.530                  | 16.532                 |
| 802.11a      | 6Mbps             | 48          | 5240               | 20.520                  | 16.557                 |
| 802.11a      | 6Mbps             | 149         | 5745               | 28.310                  | 16.732                 |
| 802.11a      | 6Mbps             | 157         | 5785               | 31.770                  | 16.862                 |
| 802.11a      | 6Mbps             | 165         | 5825               | 32.100                  | 17.189                 |
| 802.11n-HT20 | MCS0              | 36          | 5180               | 22.330                  | 17.709                 |
| 802.11n-HT20 | MCS0              | 44          | 5220               | 21.670                  | 17.683                 |
| 802.11n-HT20 | MCS0              | 48          | 5240               | 20.900                  | 17.683                 |
| 802.11n-HT20 | MCS0              | 149         | 5745               | 28.650                  | 17.797                 |
| 802.11n-HT20 | MCS0              | 157         | 5785               | 31.350                  | 18.307                 |
| 802.11n-HT20 | MCS0              | 165         | 5825               | 33.480                  | 18.210                 |
| 802.11n-HT40 | MCS0              | 38          | 5190               | 44.440                  | 36.330                 |
| 802.11n-HT40 | MCS0              | 46          | 5230               | 46.030                  | 36.337                 |
| 802.11n-HT40 | MCS0              | 151         | 5755               | 64.520                  | 36.661                 |
| 802.11n-HT40 | MCS0              | 159         | 5795               | 77.370                  | 40.054                 |







## 7.3. 6dB Bandwidth Measurement

### 7.3.1. Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

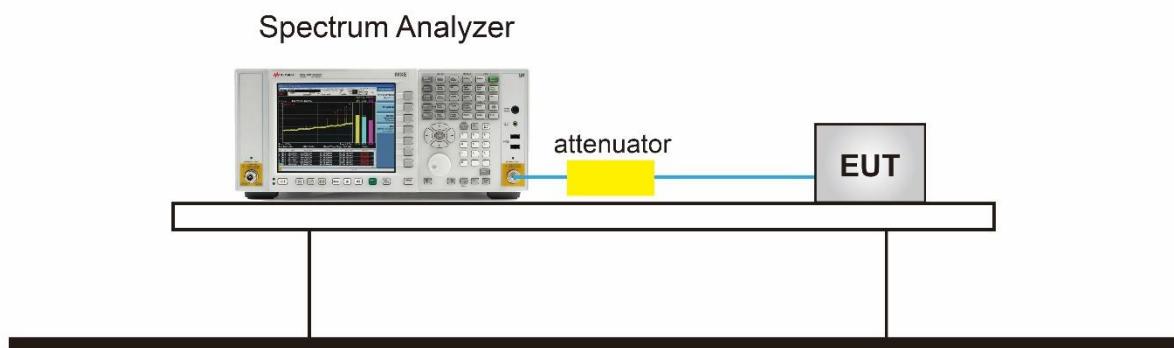
### 7.3.2. Test Procedure used

KDB 789033 D02v02r01- Section C.2

### 7.3.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 100 kHz.
3. VBW  $3 \times$  RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

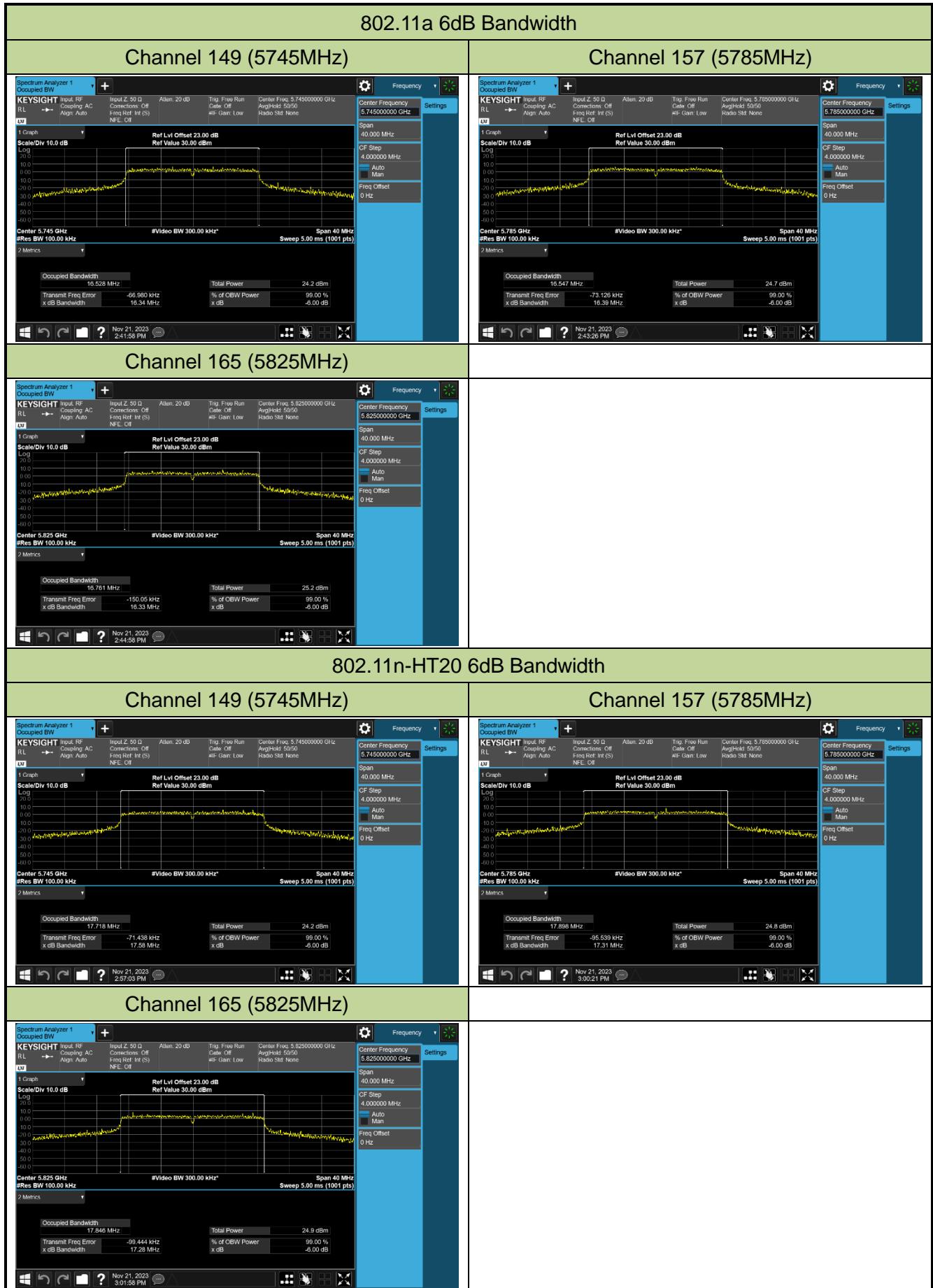
### 7.3.4. Test Setup

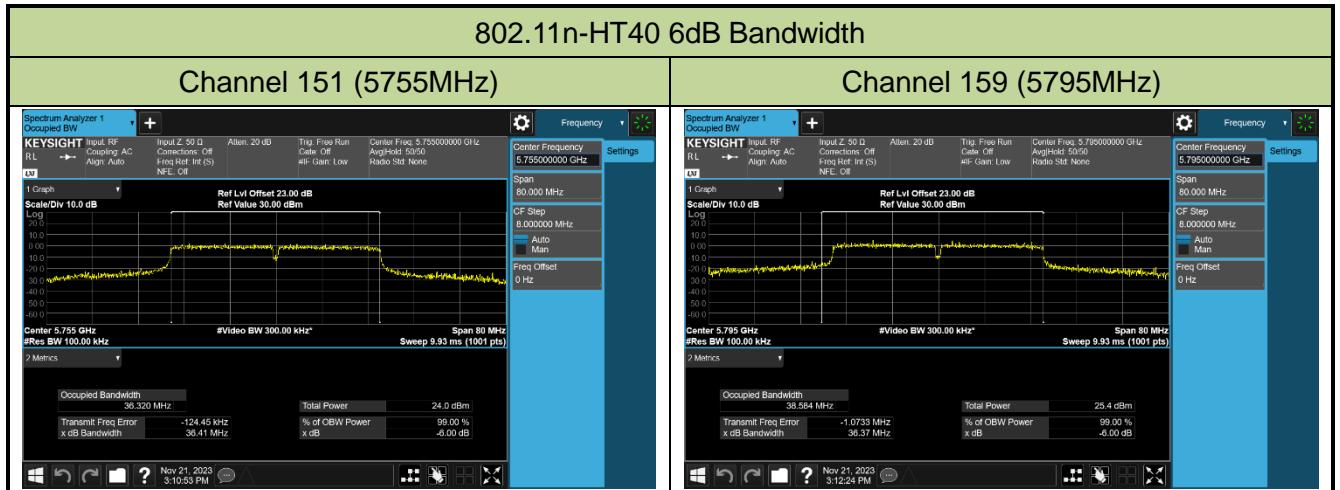


### 7.3.5. TestResult

|           |   |               |            |
|-----------|---|---------------|------------|
| Product   | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Test Engineer | Xuan Yu    |
| Test Site | SR5   | Test Date     | 2023/11/21 |

| Ant 1        |                   |                |                    |                        |                |        |
|--------------|-------------------|----------------|--------------------|------------------------|----------------|--------|
| Test Mode    | Data Rate/<br>MCS | Channel<br>No. | Frequency<br>(MHz) | 6dB Bandwidth<br>(MHz) | Limit<br>(MHz) | Result |
| 802.11a      | 6Mbps             | 149            | 5745               | 16.340                 | ≥ 0.5          | Pass   |
| 802.11a      | 6Mbps             | 157            | 5785               | 16.390                 | ≥ 0.5          | Pass   |
| 802.11a      | 6Mbps             | 165            | 5825               | 16.330                 | ≥ 0.5          | Pass   |
| 802.11n-HT20 | MCS0              | 149            | 5745               | 17.580                 | ≥ 0.5          | Pass   |
| 802.11n-HT20 | MCS0              | 157            | 5785               | 17.310                 | ≥ 0.5          | Pass   |
| 802.11n-HT20 | MCS0              | 165            | 5825               | 17.280                 | ≥ 0.5          | Pass   |
| 802.11n-HT40 | MCS0              | 151            | 5755               | 36.410                 | ≥ 0.5          | Pass   |
| 802.11n-HT40 | MCS0              | 159            | 5795               | 36.370                 | ≥ 0.5          | Pass   |





## 7.4. Output Power Measurement

### 7.4.1. Test Limit

For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

For an outdoor access point operating in the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. The maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm).

If transmitting antennas of directional gain greater than 6dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

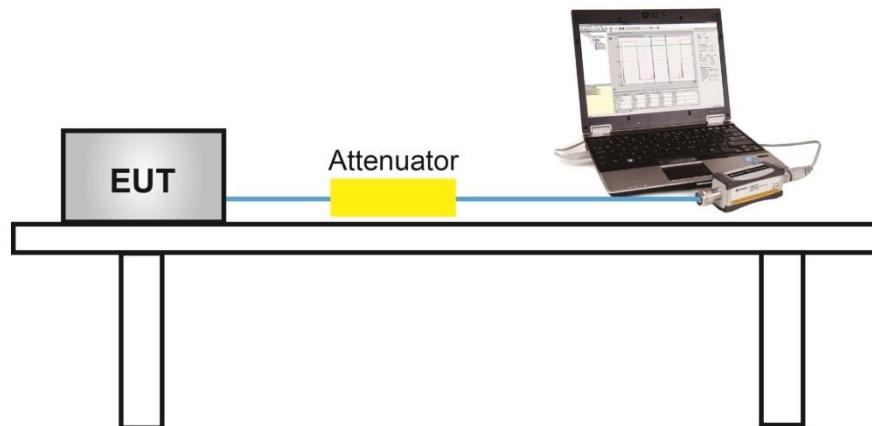
### 7.4.2. Test Procedure Used

KDB 789033D02v02r01- Section E)3)b) Method PM-G

### 7.4.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

### 7.4.4. Test Setup



### 7.4.5. Test Result

|           |   |  |  |               |            |  |  |
|-----------|---|--|--|---------------|------------|--|--|
| Product   | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point |  |  | Test Engineer | Xuan Yu    |  |  |
| Test Site | SR5   |  |  | Test Date     | 2023/11/21 |  |  |

| Test Mode | Data Rate/<br>MCS | Channel<br>No. | Freq.<br>(MHz) | Ant 0<br>Average<br>Power<br>(dBm) | Ant 1<br>Average<br>Power<br>(dBm) | Total<br>Average<br>Power<br>(dBm) | Power Limit<br>(dBm) | Result |
|-----------|-------------------|----------------|----------------|------------------------------------|------------------------------------|------------------------------------|----------------------|--------|
| 11a       | 6Mbps             | 36             | 5180           | 19.65                              | 19.36                              | 22.52                              | ≤ 28.10              | Pass   |
| 11a       | 6Mbps             | 44             | 5220           | 19.60                              | 19.95                              | 22.79                              | ≤ 28.10              | Pass   |
| 11a       | 6Mbps             | 48             | 5240           | 19.08                              | 19.81                              | 22.47                              | ≤ 28.10              | Pass   |
| 11a       | 6Mbps             | 149            | 5745           | 22.00                              | 22.08                              | 25.05                              | ≤ 28.56              | Pass   |
| 11a       | 6Mbps             | 157            | 5785           | 22.11                              | 22.47                              | 25.30                              | ≤ 28.56              | Pass   |
| 11a       | 6Mbps             | 165            | 5825           | 19.26                              | 22.60                              | 24.25                              | ≤ 28.56              | Pass   |
| 11n-HT20  | MCS0              | 36             | 5180           | 19.95                              | 19.96                              | 22.97                              | ≤ 28.10              | Pass   |
| 11n-HT20  | MCS0              | 44             | 5220           | 19.46                              | 20.08                              | 22.79                              | ≤ 28.10              | Pass   |
| 11n-HT20  | MCS0              | 48             | 5240           | 19.48                              | 20.26                              | 22.90                              | ≤ 28.10              | Pass   |
| 11n-HT20  | MCS0              | 149            | 5745           | 22.18                              | 22.10                              | 25.15                              | ≤ 28.56              | Pass   |
| 11n-HT20  | MCS0              | 157            | 5785           | 21.56                              | 22.55                              | 25.09                              | ≤ 28.56              | Pass   |
| 11n-HT20  | MCS0              | 165            | 5825           | 19.67                              | 22.52                              | 24.34                              | ≤ 28.56              | Pass   |
| 11n-HT40  | MCS0              | 38             | 5190           | 10.21                              | 9.12                               | 12.71                              | ≤ 28.10              | Pass   |
| 11n-HT40  | MCS0              | 46             | 5230           | 19.34                              | 19.70                              | 22.53                              | ≤ 28.10              | Pass   |
| 11n-HT40  | MCS0              | 151            | 5755           | 22.08                              | 22.23                              | 25.17                              | ≤ 28.56              | Pass   |
| 11n-HT40  | MCS0              | 159            | 5795           | 21.54                              | 22.22                              | 24.90                              | ≤ 28.56              | Pass   |

Note 1:

The Total Average Power (dBm) =  $10 \times \log \{10^{(\text{Ant 0 Average Power /10})} + 10^{(\text{Ant 1 Average Power /10})}\}$ .

Note 2:

For 5150 - 5250MHz: Average Power Limit (dBm) =  $30 - (7.90-6) = 28.10$  dBm.

For 5725 - 5850MHz Bands: Average Power Limit (dBm) =  $30 - (7.44-6) = 28.56$  dBm.

|           |   |  |  |               |            |  |  |
|-----------|---|--|--|---------------|------------|--|--|
| Product   | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point |  |  | Test Engineer | Xuan Yu    |  |  |
| Test Site | SR5   |  |  | Test Date     | 2023/11/21 |  |  |

| Test Mode                                    | Data Rate/<br>MCS | Channel<br>No. | Freq.<br>(MHz) | Average Power<br>(dBm) |       | Total<br>Average<br>Power<br>(dBm) | EIRP<br>(dBm) | EIRP Limit<br>(dBm) | Result |
|--|-------------------|----------------|----------------|------------------------|-------|------------------------------------|---------------|---------------------|--------|
|  |                   |                |                | Ant 0                  | Ant 1 |                                    |               |                     |        |
| EIRP at any elevation angle above 30 degrees |                   |                |                |                        |       |                                    |               |                     |        |
| 11a  | 6Mbps             | 36             | 5180           | 19.65                  | 19.36 | 22.52                              | 20.49         | ≤ 21.00             | Pass   |
| 11a  | 6Mbps             | 44             | 5220           | 19.60                  | 19.95 | 22.79                              | 20.76         | ≤ 21.00             | Pass   |
| 11a  | 6Mbps             | 48             | 5240           | 19.08                  | 19.81 | 22.47                              | 20.44         | ≤ 21.00             | Pass   |
| 11n-HT20                                     | MCS0              | 36             | 5180           | 19.95                  | 19.96 | 22.97                              | 20.94         | ≤ 21.00             | Pass   |
| 11n-HT20                                     | MCS0              | 44             | 5220           | 19.46                  | 20.08 | 22.79                              | 20.76         | ≤ 21.00             | Pass   |
| 11n-HT20                                     | MCS0              | 48             | 5240           | 19.48                  | 20.26 | 22.90                              | 20.87         | ≤ 21.00             | Pass   |
| 11n-HT40                                     | MCS0              | 38             | 5190           | 10.21                  | 9.12  | 12.71                              | 10.68         | ≤ 21.00             | Pass   |
| 11n-HT40                                     | MCS0              | 46             | 5230           | 19.34                  | 19.70 | 22.53                              | 20.50         | ≤ 21.00             | Pass   |

Note 1: The Total Average Power (dBm) =  $10 \log \{10^{(Ant 0 \text{ Average Power /10})} + 10^{(Ant 1 \text{ Average Power /10})}\}$ .

Note 2: EIRP (dBm) = Total Average Power (dBm) + Directional Gain (dBi)

## 7.5. Power Spectral Density Measurement

### 7.5.1. Test Limit

For the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

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

### 7.5.2. Test Procedure Used

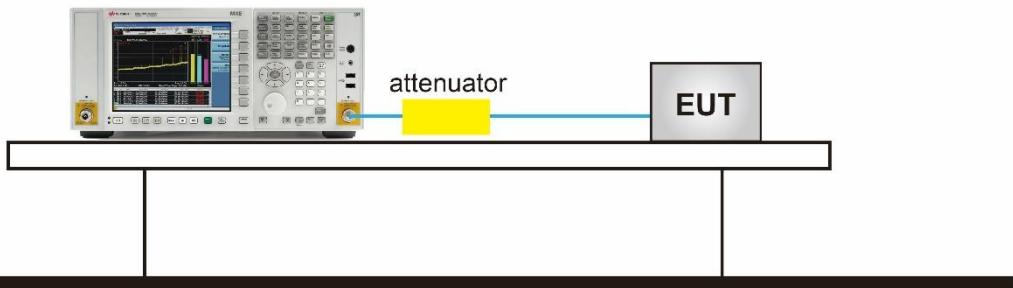
KDB 789033 D02v02r01-SectionF

### 7.5.3. Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz, if measurement bandwidth of Maximum PSD is specified in 500 kHz,  
RBW = 510 kHz
4. VBW = 3MHz
5. Number of sweep points  $\geq 2 \times (\text{span} / \text{RBW})$
6. Detector = power averaging (Average)
7. Sweep time = auto
8. Trigger = free run
9. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
10. Add  $10 \cdot \log(1/x)$ , where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add  $10 \cdot \log(1/0.25) = 6$  dB if the duty cycle is 25 percent.

#### 7.5.4. Test Setup

Spectrum Analyzer



### 7.5.5. Test Result

|           |   |  |  |               |            |  |  |
|-----------|---|--|--|---------------|------------|--|--|
| Product   | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point |  |  | Test Engineer | Xuan Yu    |  |  |
| Test Site | SR5   |  |  | Test Date     | 2023/11/21 |  |  |
| Mode      | Power Spectral Density (U-NII- 1) CDD Mode          |  |  |               |            |  |  |

| Test Mode | Data Rate /MCS | Ch. No. | Freq. (MHz) | Ant 0 PSD (dBm/MHz) | Ant 1 PSD (dBm/MHz) | Duty Cycle (%) | Total PSD (dBm/MHz) | PSD Limit (dBm/MHz) | Result |
|-----------|----------------|---------|-------------|---------------------|---------------------|----------------|---------------------|---------------------|--------|
| 11a       | 6Mbps          | 36      | 5180        | 6.803               | 6.068               | 99.03%         | 9.504               | ≤ 12.09             | Pass   |
| 11a       | 6Mbps          | 44      | 5220        | 6.607               | 6.568               | 99.03%         | 9.640               | ≤ 12.09             | Pass   |
| 11a       | 6Mbps          | 48      | 5240        | 5.965               | 6.646               | 99.03%         | 9.371               | ≤ 12.09             | Pass   |
| 11n-HT20  | MCS0           | 36      | 5180        | 7.203               | 6.206               | 98.95%         | 9.789               | ≤ 12.09             | Pass   |
| 11n-HT20  | MCS0           | 44      | 5220        | 6.353               | 6.406               | 98.95%         | 9.436               | ≤ 12.09             | Pass   |
| 11n-HT20  | MCS0           | 48      | 5240        | 6.783               | 6.731               | 98.95%         | 9.813               | ≤ 12.09             | Pass   |
| 11n-HT40  | MCS0           | 38      | 5190        | -5.165              | -5.716              | 98.11%         | -2.339              | ≤ 12.09             | Pass   |
| 11n-HT40  | MCS0           | 46      | 5230        | 2.802               | 3.436               | 98.11%         | 6.224               | ≤ 12.09             | Pass   |

Note 1: When EUT duty cycle ≥ 98%,

the total PSD (dBm/MHz) =  $10 \times \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$  (dBm/MHz).

When EUT duty cycle < 98%,

the total PSD (dBm/MHz) =  $10 \times \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\} + 10 \times \log (1/\text{Duty Cycle})$  (dBm/MHz).

Note 2:

For 5150 - 5250MHzBand: PSD Limit (dBm/MHz) = 17 - (10.91 - 6) = 12.09dBm/MHz.

|           |   |  |  |               |            |  |  |
|-----------|---|--|--|---------------|------------|--|--|
| Product   | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point |  |  | Test Engineer | Xuan Yu    |  |  |
| Test Site | SR5   |  |  | Test Date     | 2023/11/21 |  |  |
| Test Item | Power Spectral Density (U-NII-3) CDD Mode           |  |  |               |            |  |  |

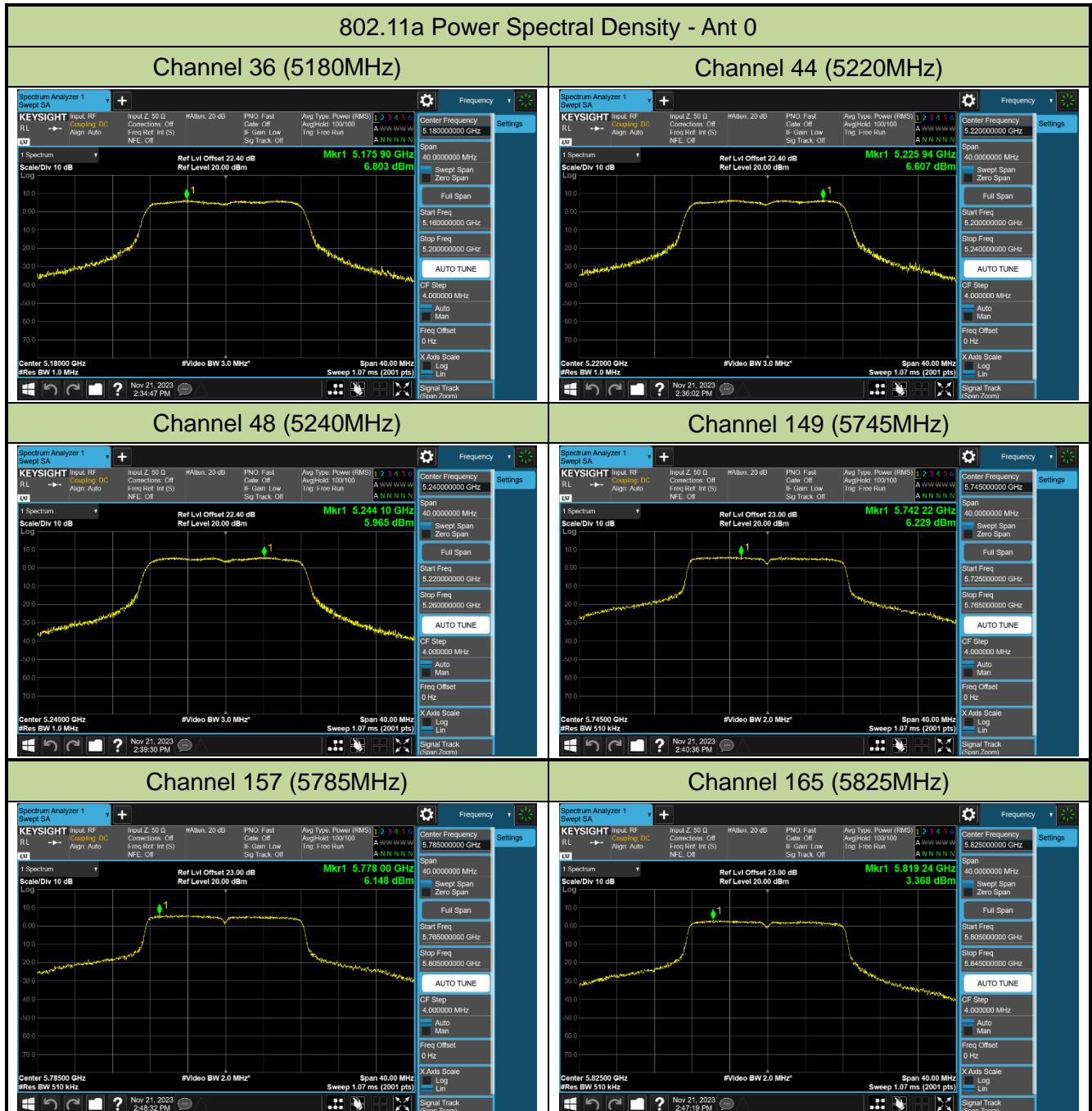
| Test Mode | Data Rate/<br>MCS | Ch. No. | Freq.<br>(MHz) | Ant 0 PSD<br>(dBm/510<br>KHz) | Ant 1 PSD<br>(dBm/510<br>KHz) | Duty Cycle (%) | Total PSD<br>(dBm/510<br>kHz) | Limit<br>(dBm/<br>500kHz) | Result |
|-----------|-------------------|---------|----------------|-------------------------------|-------------------------------|----------------|-------------------------------|---------------------------|--------|
| 11a       | 6Mbps             | 149     | 5745           | 6.229                         | 5.900                         | 99.03%         | 9.120                         | ≤ 25.55                   | Pass   |
| 11a       | 6Mbps             | 157     | 5785           | 6.148                         | 6.612                         | 99.03%         | 9.439                         | ≤ 25.55                   | Pass   |
| 11a       | 6Mbps             | 165     | 5825           | 3.368                         | 6.806                         | 99.03%         | 8.471                         | ≤ 25.55                   | Pass   |
| 11n-HT20  | MCS0              | 149     | 5745           | 5.987                         | 5.790                         | 98.95%         | 8.946                         | ≤ 25.55                   | Pass   |
| 11n-HT20  | MCS0              | 157     | 5785           | 5.829                         | 6.288                         | 98.95%         | 9.121                         | ≤ 25.55                   | Pass   |
| 11n-HT20  | MCS0              | 165     | 5825           | 3.224                         | 6.274                         | 98.95%         | 8.068                         | ≤ 25.55                   | Pass   |
| 11n-HT40  | MCS0              | 151     | 5755           | 3.636                         | 2.501                         | 98.11%         | 6.199                         | ≤ 25.55                   | Pass   |
| 11n-HT40  | MCS0              | 159     | 5795           | 2.530                         | 4.226                         | 98.11%         | 6.553                         | ≤ 25.55                   | Pass   |

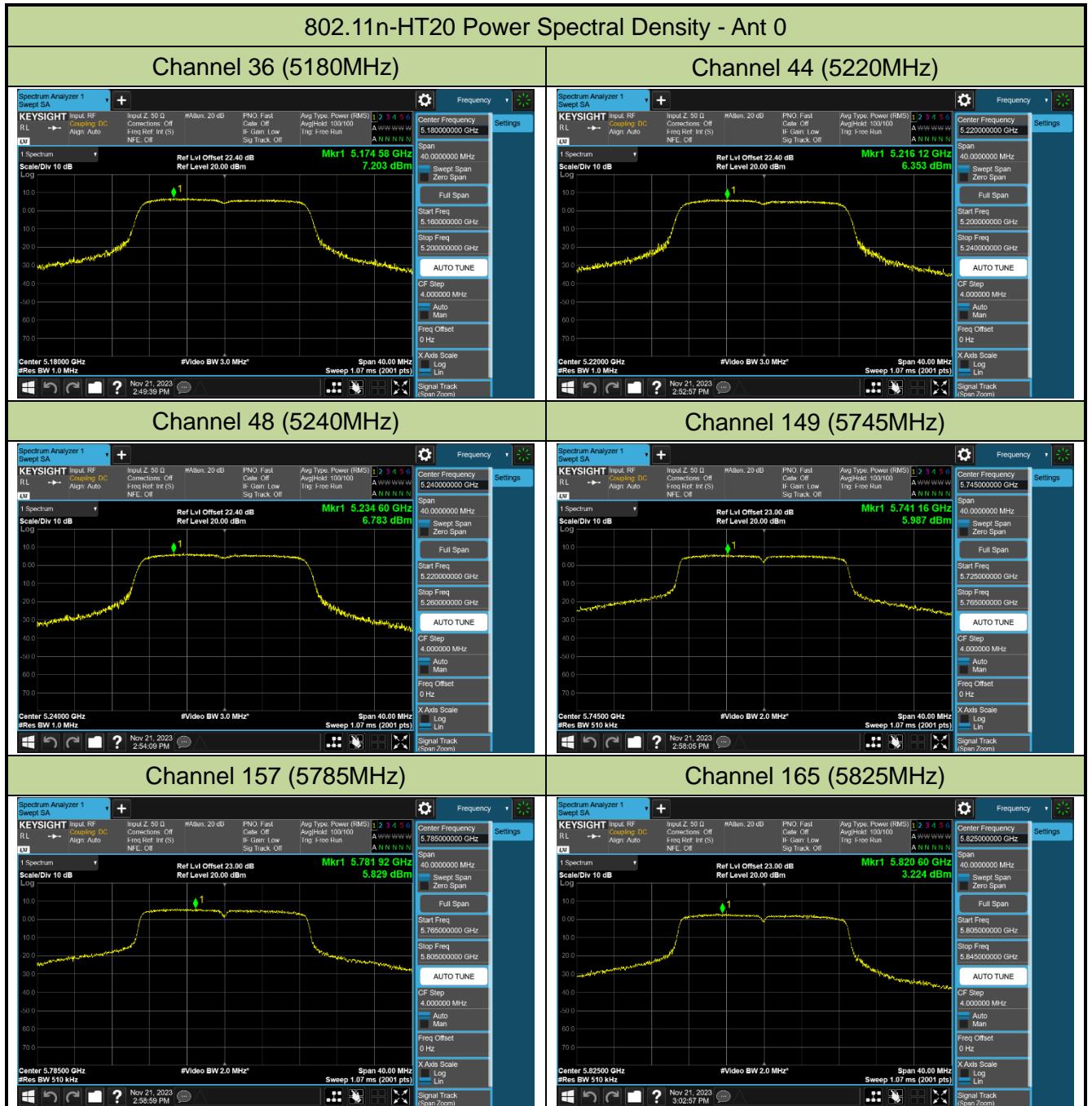
Note 1: When EUT duty cycle ≥ 98%,

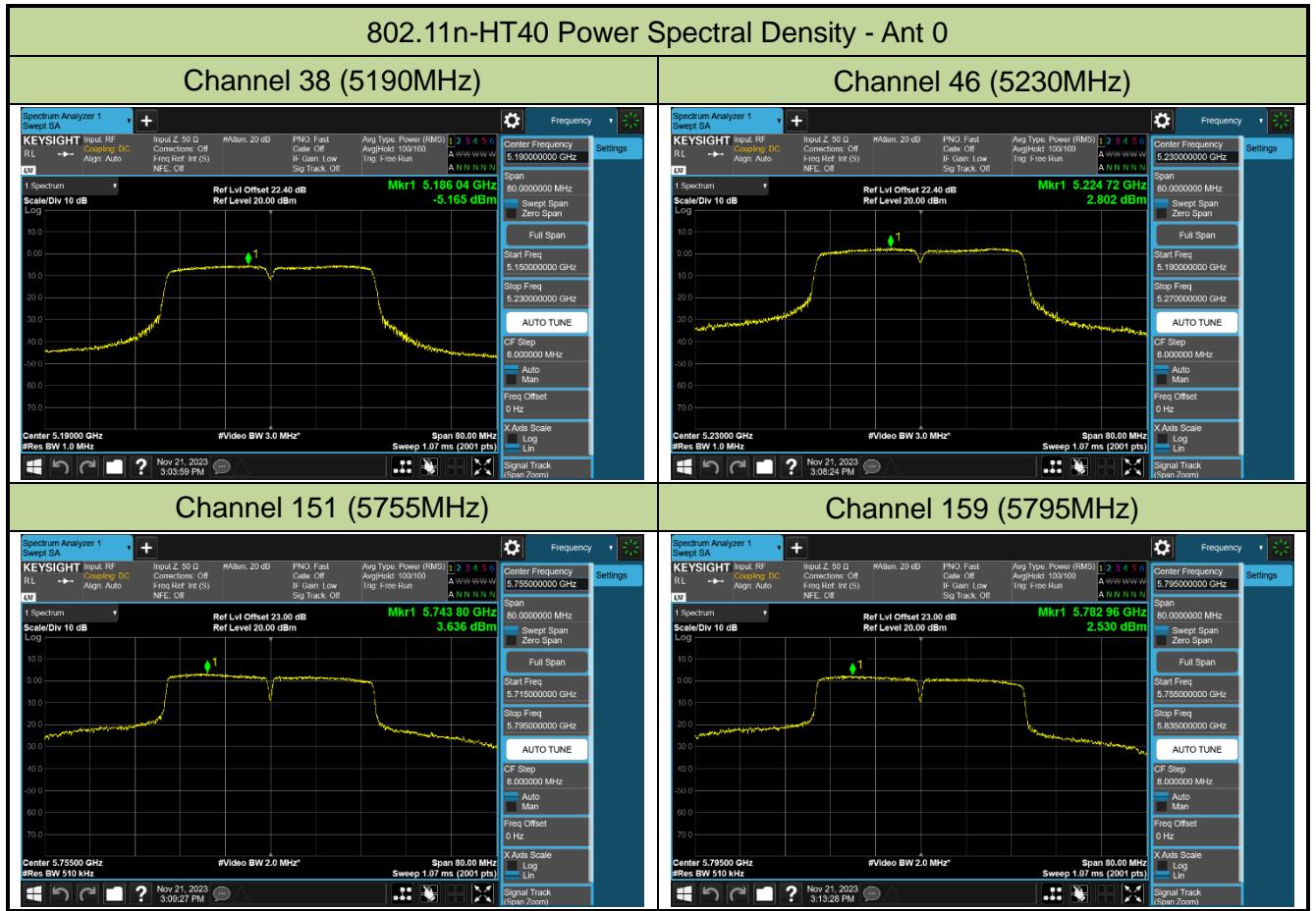
the total PSD (dBm/500kHz) =  $10 \log \{10^{(Ant\ 0\ PSD/10)} + 10^{(Ant\ 1\ PSD/10)}\}$  (dBm/510kHz).

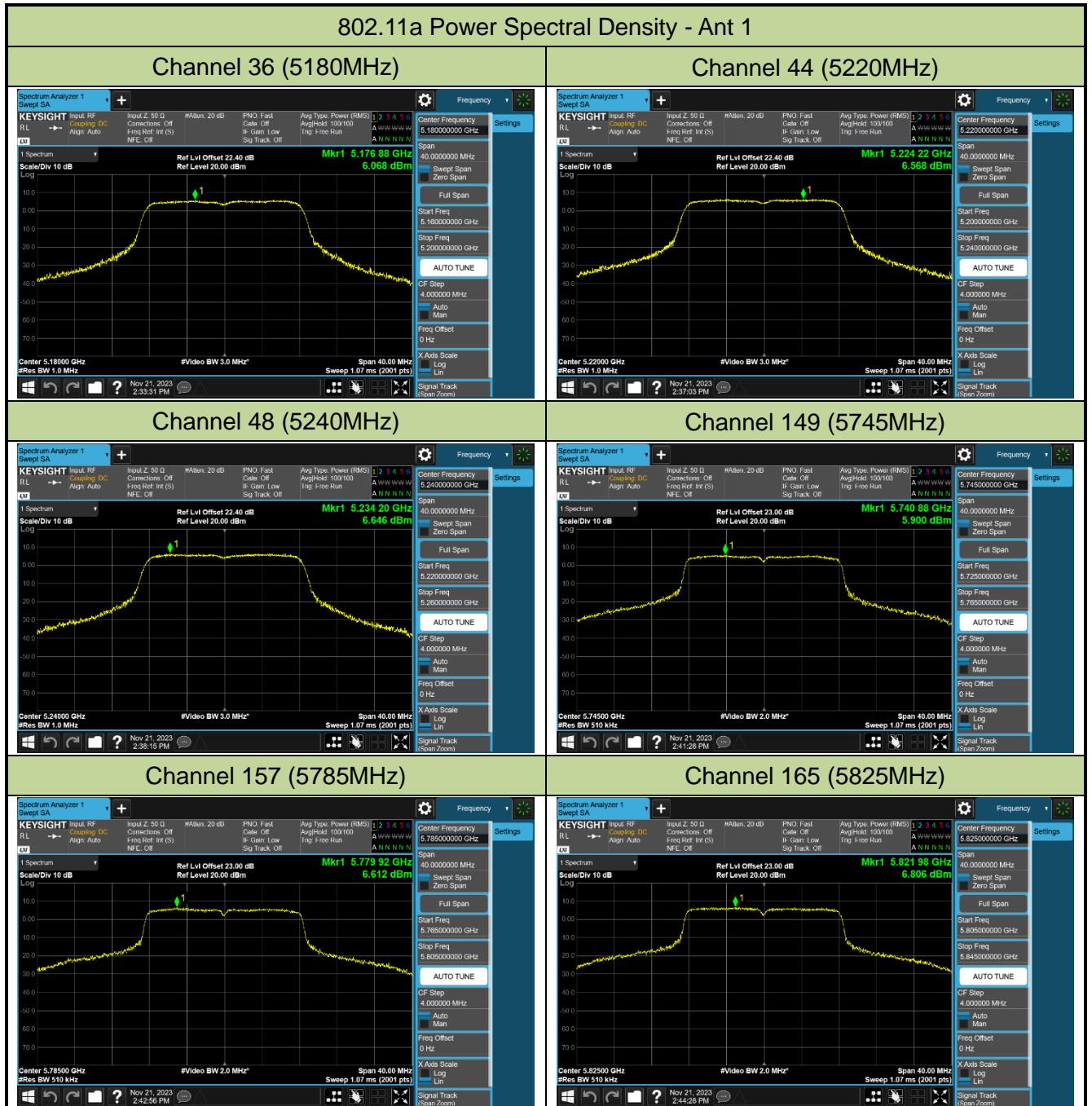
When EUT duty cycle < 98%, the total PSD (dBm/510kHz) =  $10 \log \{10^{(Ant\ 0\ PSD/10)} + 10^{(Ant\ 1\ PSD/10)}\}$  (dBm/510kHz) +  $10 \log (1/\text{Duty Cycle})$ .

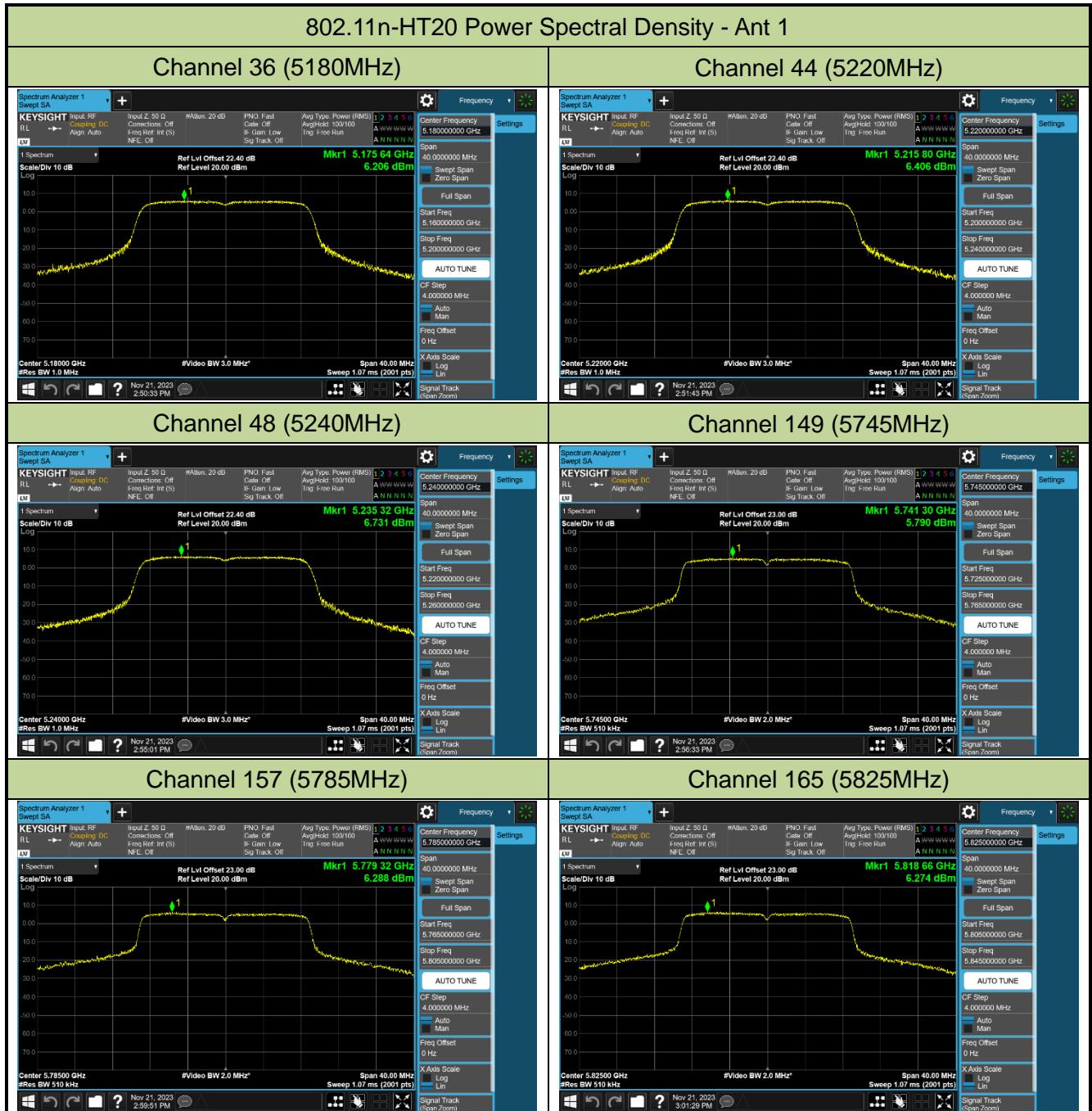
Note 2: PSD Limit (dBm/500kHz) = 30 - (10.45 - 6) = 25.55 (dBm/500kHz).

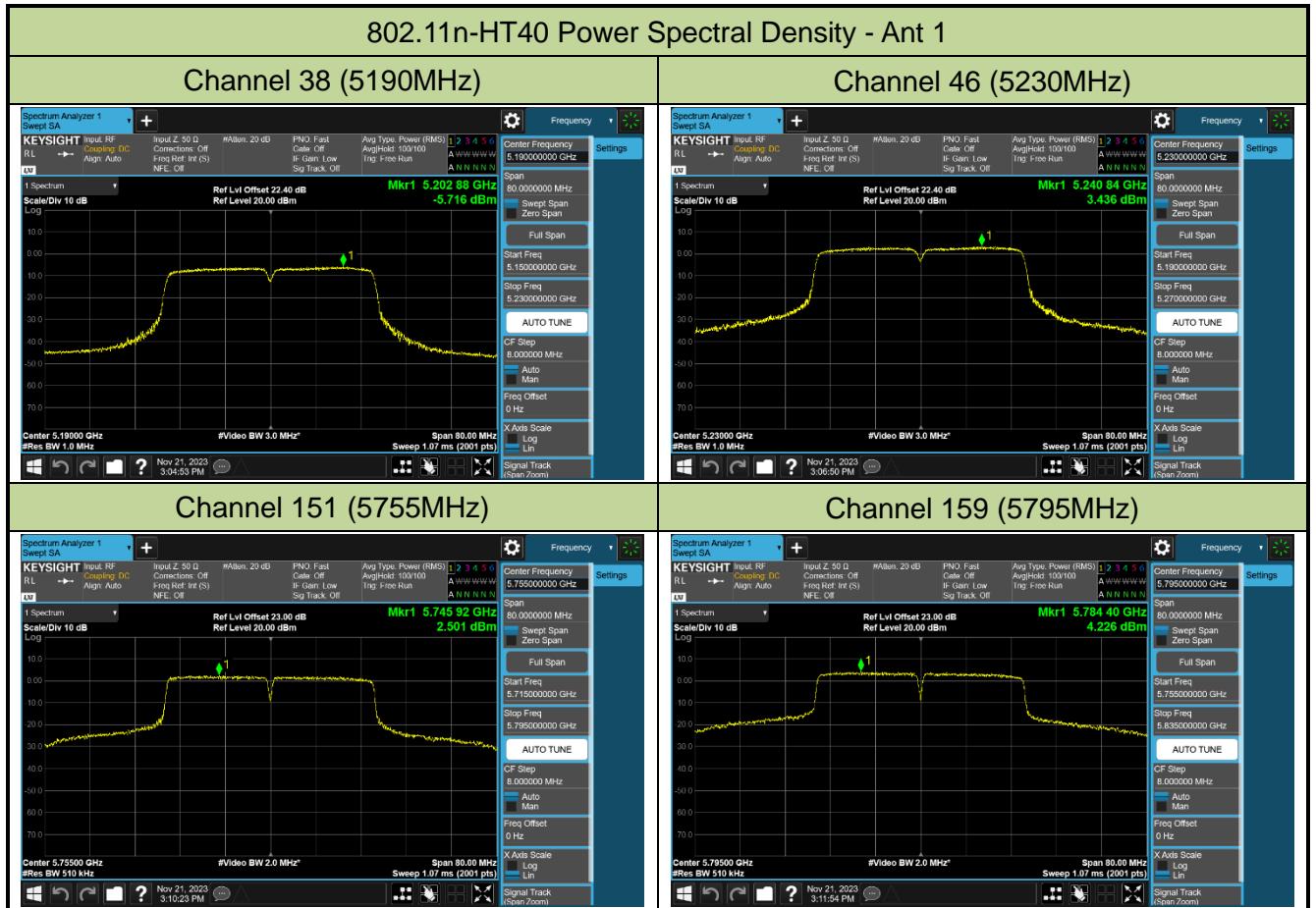












## 7.6. Frequency Stability Measurement

### 7.6.1. Test Limit

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

### 7.6.2. Test Limit

#### Frequency Stability Under Temperature Variations:

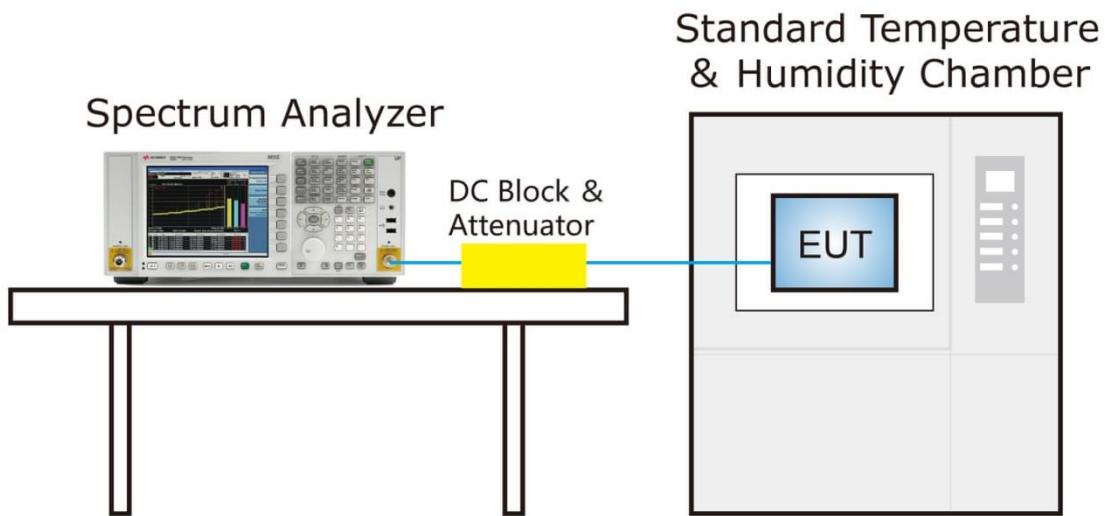
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain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

#### Frequency Stability Under Voltage Variations:

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

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

### 7.6.3. Test Setup



### 7.6.4. Test Result

Grantee ensure that the product meets e-CFR Title 47 section 15.407(g) and KDB 789033 D02v02r01 frequency stability such that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

## 7.7. Radiated Spurious Emission Measurement

### 7.7.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

| FCC Part 15 Subpart C Paragraph 15.209 |                          |                               |
|--|--------------------------|-------------------------------|
| Frequency<br>[MHz]                     | Field Strength<br>[uV/m] | Measured Distance<br>[Meters] |
| 0.009 - 0.490                          | 2400/F (kHz)             | 300                           |
| 0.490 - 1.705                          | 24000/F (kHz)            | 30                            |
| 1.705 - 30                             | 30                       | 30                            |
| 30 - 88                                | 100                      | 3                             |
| 88 - 216                               | 150                      | 3                             |
| 216 - 960                              | 200                      | 3                             |
| Above 960                              | 500                      | 3                             |

### 7.7.2. Test Procedure Used

KDB 789033 D02v02r01- Section G

### 7.7.3. Test Setting

Table 1 - RBW as a function of frequency

| Frequency     | RBW           |
|---------------|---------------|
| 9 ~ 150 kHz   | 200 ~ 300 Hz  |
| 0.15 ~ 30 MHz | 9 ~ 10 kHz    |
| 30 ~ 1000 MHz | 100 ~ 120 kHz |
| >1000 MHz     | 1 MHz         |

**Quasi-Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

**Peak Measurements above 1GHz**

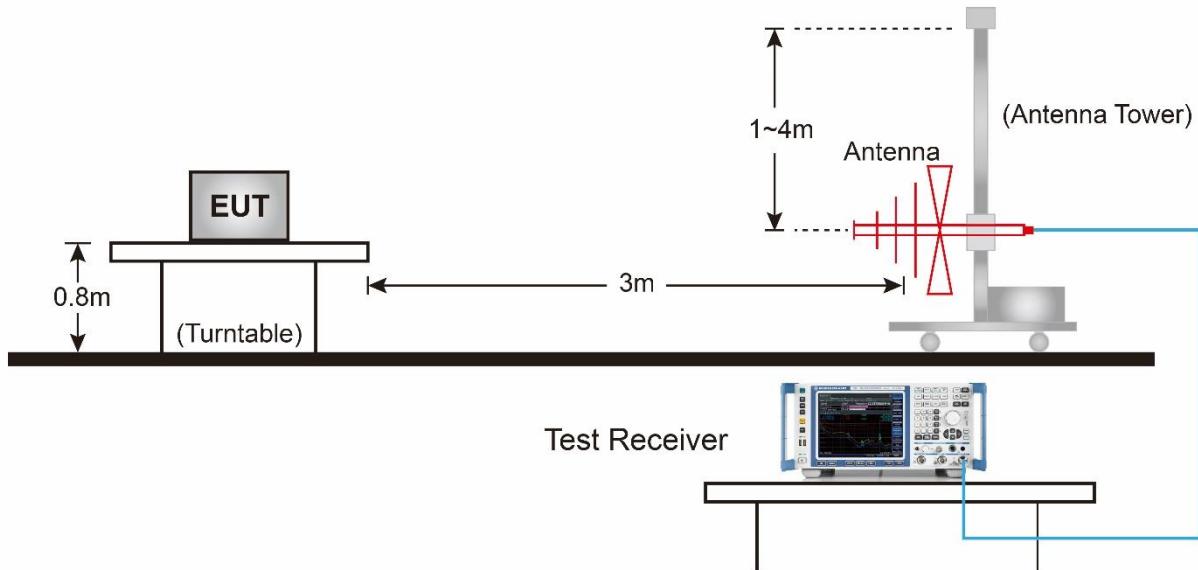
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

**Average Measurements above 1GHz (Method VB)**

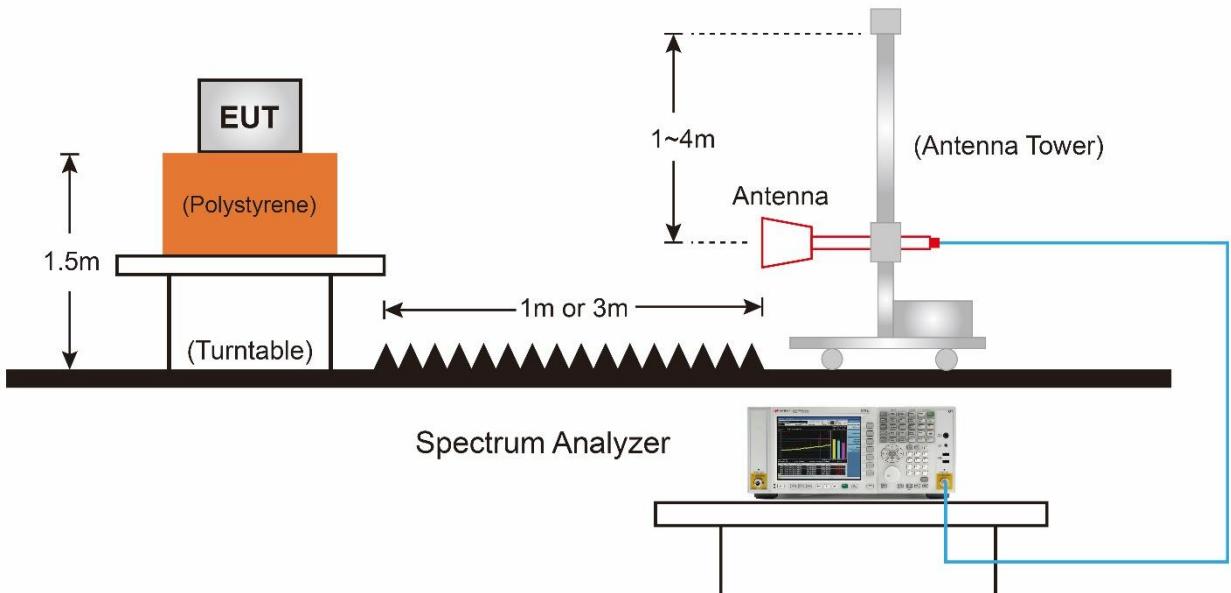
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle  $\geq 98\%$ , set VBW = 10 Hz.  
If the EUT duty cycle is  $< 98\%$ , set  $VBW \geq 1/T$ . T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

#### 7.7.4. Test Setup

Below 1GHz Test Setup:

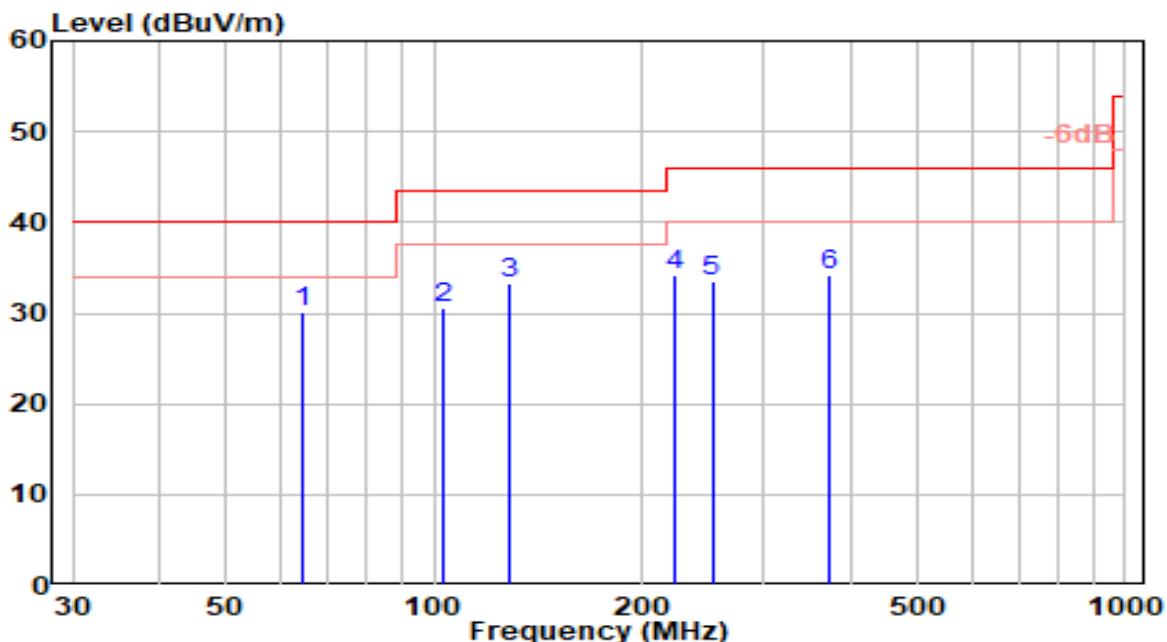


Above 1GHz Test Setup:



### 7.7.5. Test Result

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-14    |
| Factor    | VULB 9162   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band4_CH 44_ANT 0+1                | Test Voltage         | AC 120V/60Hz  |

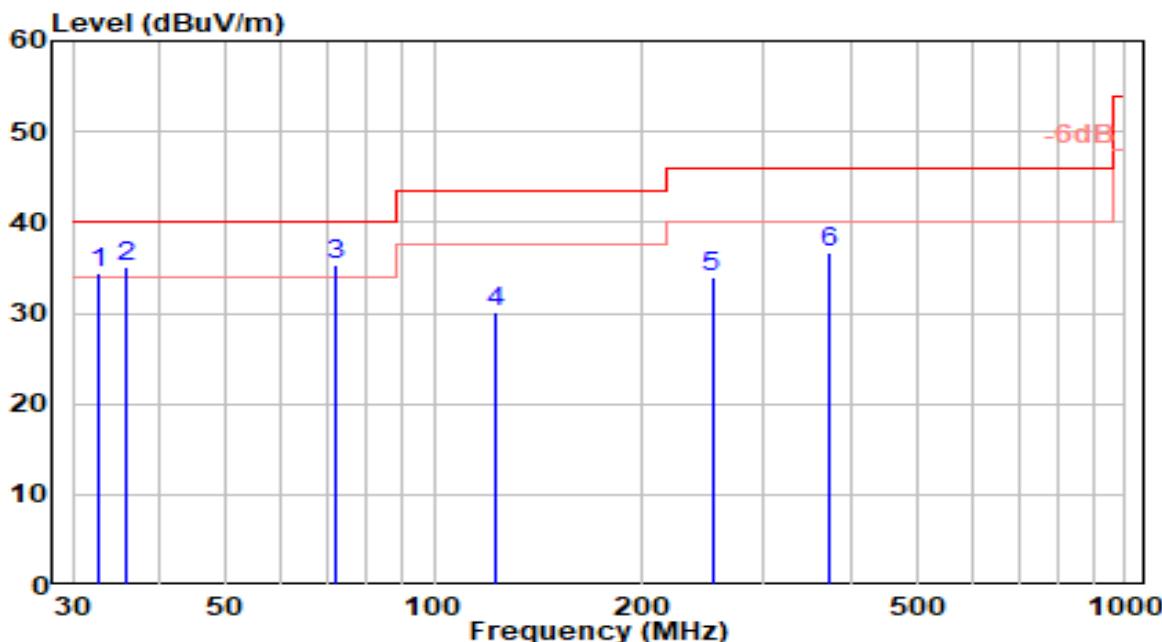


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1 * | 64.670          | 12.70          | 17.44      | 30.14                | -9.86       | 40.00          | 100         | 112         | QP                |
| 2   | 102.670         | 12.15          | 18.33      | 30.48                | -13.02      | 43.50          | 200         | 291         | QP                |
| 3   | 128.100         | 17.54          | 15.69      | 33.23                | -10.27      | 43.50          | 150         | 93          | QP                |
| 4   | 223.010         | 15.69          | 18.51      | 34.20                | -11.80      | 46.00          | 100         | 48          | QP                |
| 5   | 252.490         | 13.68          | 19.90      | 33.58                | -12.42      | 46.00          | 200         | 54          | QP                |
| 6   | 373.980         | 11.47          | 22.69      | 34.16                | -11.84      | 46.00          | 200         | 95          | QP                |

Note:

1. " \*\*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-14    |
| Factor    | VULB 9162   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band4_CH 44_ANT 0+1                | Test Voltage         | AC 120V/60Hz  |

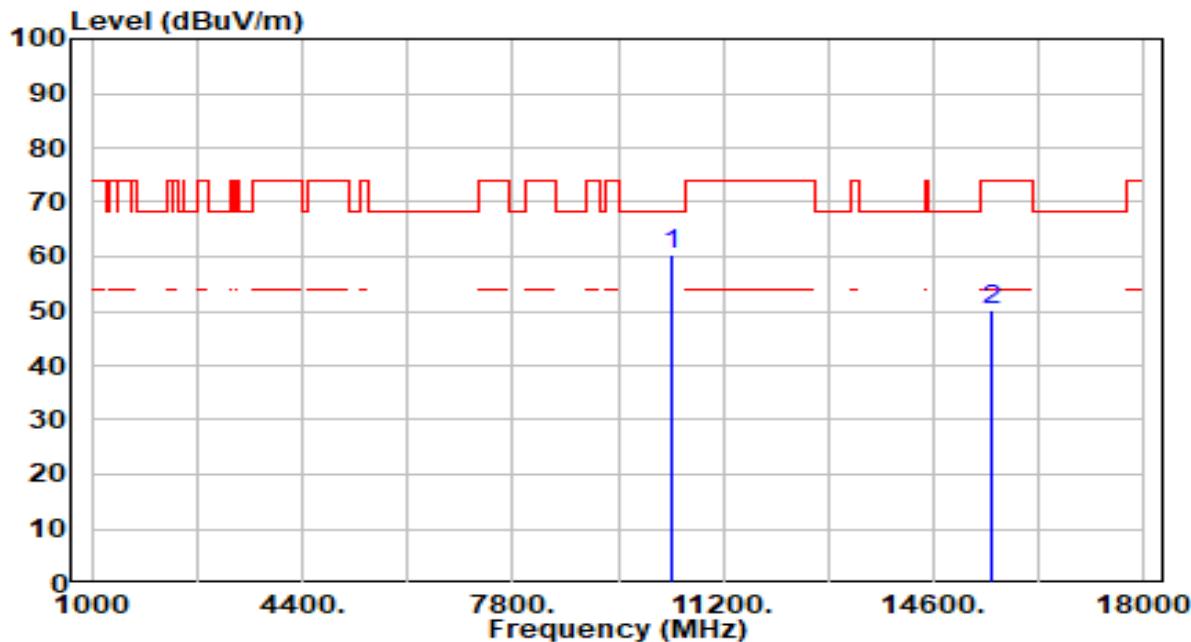


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1   | 32.660          | 17.45          | 17.05      | 34.50                | -5.50       | 40.00          | 150         | 244         | QP                |
| 2   | 35.740          | 17.30          | 17.81      | 35.11                | -4.89       | 40.00          | 100         | 9           | QP                |
| 3 * | 71.840          | 20.12          | 15.15      | 35.27                | -4.73       | 40.00          | 200         | 29          | QP                |
| 4   | 123.100         | 13.78          | 16.26      | 30.05                | -13.45      | 43.50          | 100         | 263         | QP                |
| 5   | 252.490         | 14.10          | 19.90      | 34.00                | -12.00      | 46.00          | 150         | 335         | QP                |
| 6   | 373.980         | 14.05          | 22.69      | 36.74                | -9.26       | 46.00          | 200         | 170         | QP                |

Note:

1. \*\* means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11a_TX_Band1_CH 36_ANT 0+1                      | Test Voltage         | AC 120V/60Hz  |

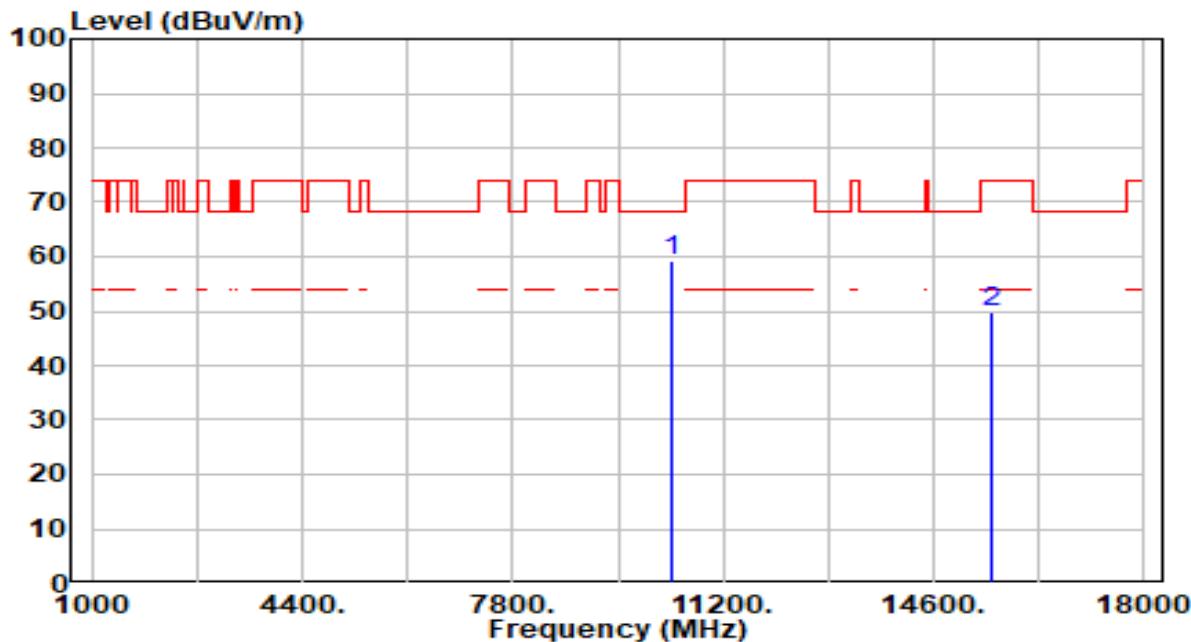


| No  | Frequency (MHz) | Reading (dB <sub>BuV</sub> ) | C.F (dB/m) | Measurement (dB <sub>BuV/m</sub> ) | Margin (dB) | Limit (dB <sub>BuV/m</sub> ) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1 * | 10360.000       | 57.73                        | 2.81       | 60.54                              | -7.66       | 68.20                        | 100         | 350         | Peak              |
| 2   | 15540.000       | 45.70                        | 4.52       | 50.23                              | -23.77      | 74.00                        | 300         | 80          | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11a_TX_Band1_CH 36_ANT 0+1                      | Test Voltage         | AC 120V/60Hz  |

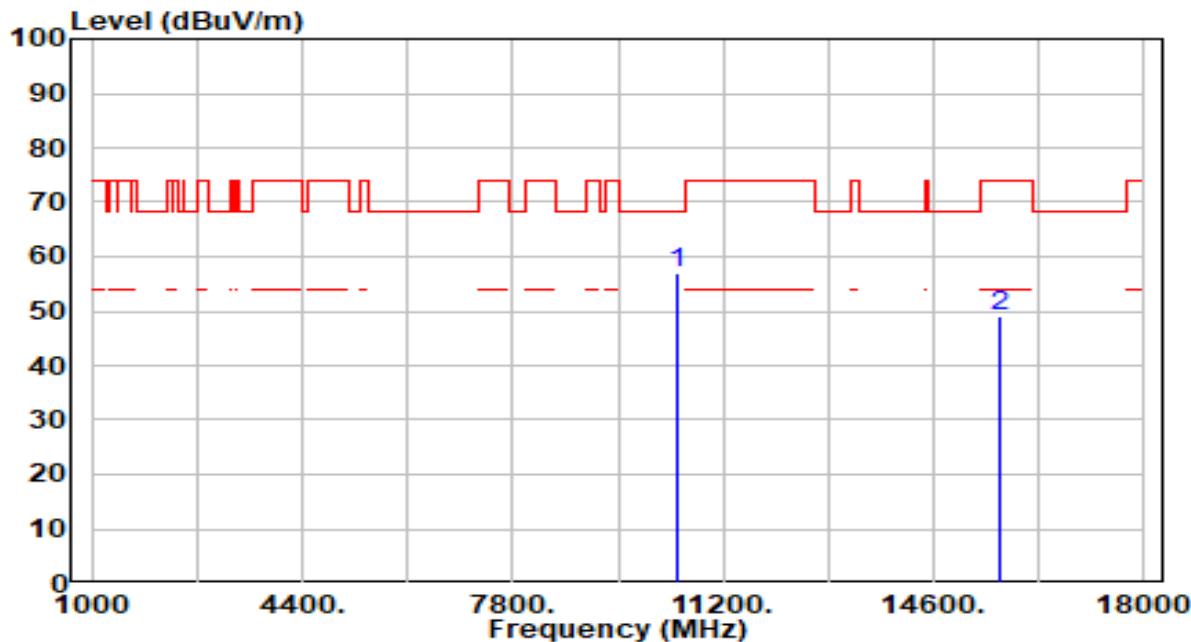


| No. | Frequency (MHz) | Reading (dB <sub>BuV</sub> ) | C.F. (dB/m) | Measurement (dB <sub>BuV/m</sub> ) | Margin (dB) | Limit (dB <sub>BuV/m</sub> ) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|-------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1 * | 10360.000       | 56.34                        | 2.81        | 59.15                              | -9.05       | 68.20                        | 201         | 0           | Peak              |
| 2   | 15540.000       | 45.19                        | 4.52        | 49.71                              | -24.29      | 74.00                        | 300         | 40          | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11a_TX_Band1_CH 44_ANT 0+1                      | Test Voltage         | AC 120V/60Hz  |

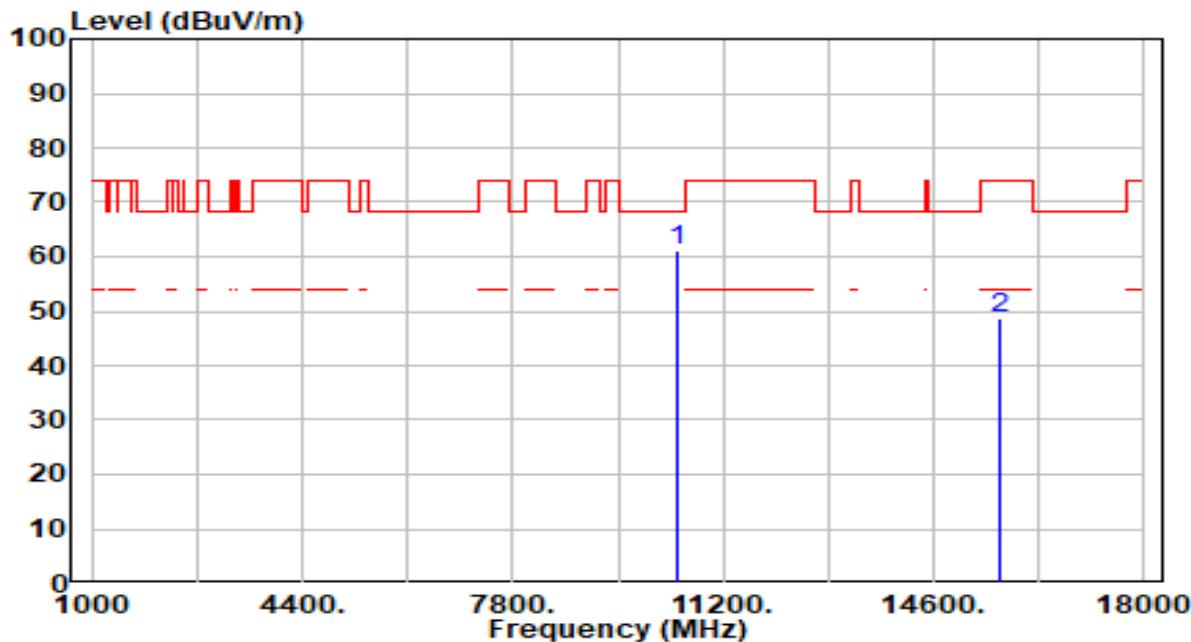


| No  | Frequency (MHz) | Reading (dB <sub>BuV</sub> ) | C.F (dB/m) | Measurement (dB <sub>BuV/m</sub> ) | Margin (dB) | Limit (dB <sub>BuV/m</sub> ) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1 * | 10440.000       | 54.21                        | 2.72       | 56.93                              | -11.27      | 68.20                        | 200         | 355         | Peak              |
| 2   | 15660.000       | 44.32                        | 4.67       | 48.99                              | -25.01      | 74.00                        | 200         | 346         | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11a_TX_Band1_CH 44_ANT 0+1                      | Test Voltage         | AC 120V/60Hz  |

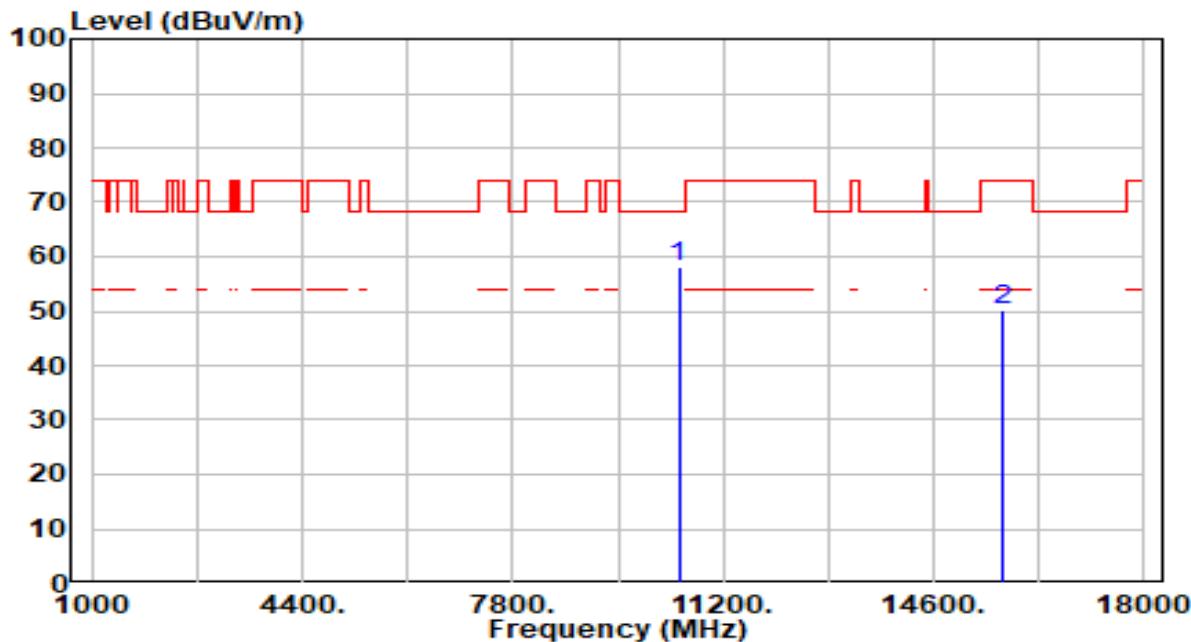


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1 * | 10440.000       | 58.35          | 2.72       | 61.08                | -7.12       | 68.20          | 200         | 360         | Peak              |
| 2   | 15660.000       | 44.02          | 4.67       | 48.70                | -25.30      | 74.00          | 200         | 331         | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11a_TX_Band1_CH 48_ANT 0+1                      | Test Voltage         | AC 120V/60Hz  |

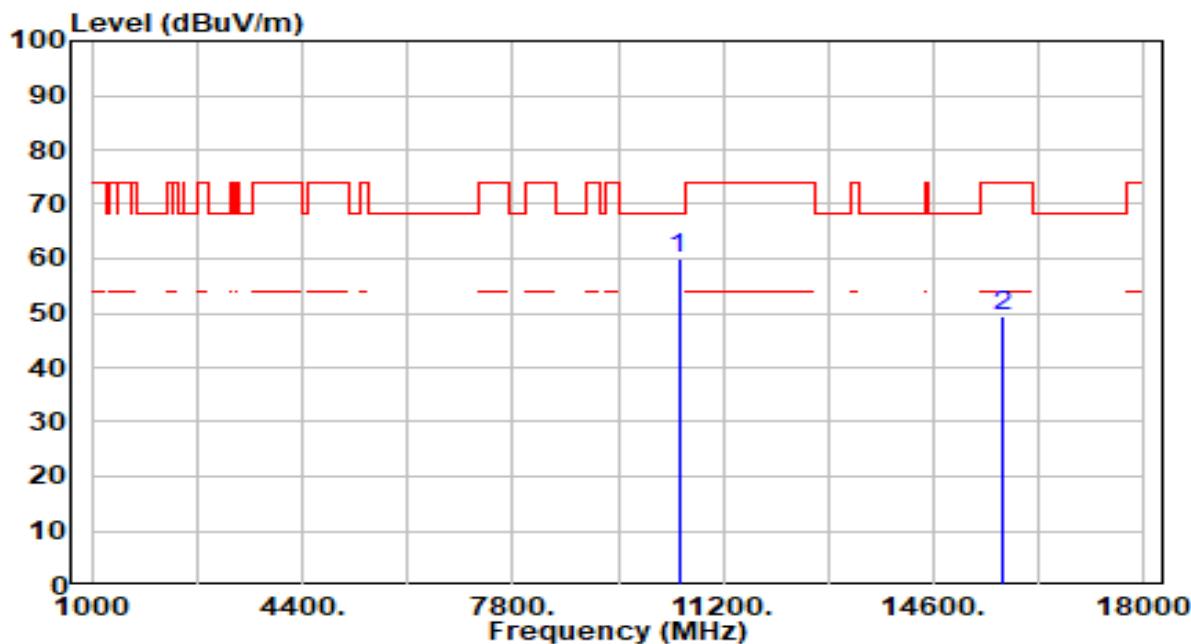


| No  | Frequency (MHz) | Reading (dB <sub>BuV</sub> ) | C.F (dB/m) | Measurement (dB <sub>BuV/m</sub> ) | Margin (dB) | Limit (dB <sub>BuV/m</sub> ) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1 * | 10480.000       | 55.55                        | 2.68       | 58.23                              | -9.97       | 68.20                        | 200         | 348         | Peak              |
| 2   | 15720.000       | 45.45                        | 4.84       | 50.28                              | -23.72      | 74.00                        | 200         | 307         | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11a_TX_Band1_CH 48_ANT 0+1                      | Test Voltage         | AC 120V/60Hz  |

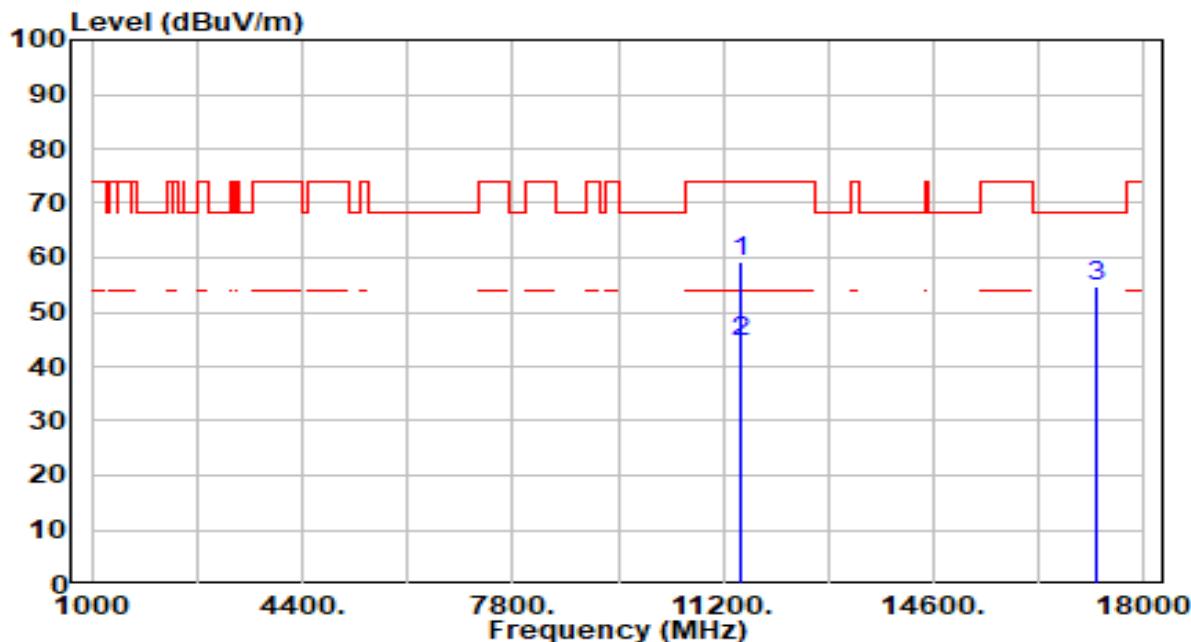


| No  | Frequency (MHz) | Reading (dB <sub>BuV</sub> ) | C.F (dB/m) | Measurement (dB <sub>BuV/m</sub> ) | Margin (dB) | Limit (dB <sub>BuV/m</sub> ) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1 * | 10480.000       | 57.43                        | 2.68       | 60.10                              | -8.10       | 68.20                        | 200         | 360         | Peak              |
| 2   | 15720.000       | 44.56                        | 4.84       | 49.40                              | -24.60      | 74.00                        | 200         | 334         | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11a_TX_Band4_CH 149_ANT 0+1                     | Test Voltage         | AC 120V/60Hz  |

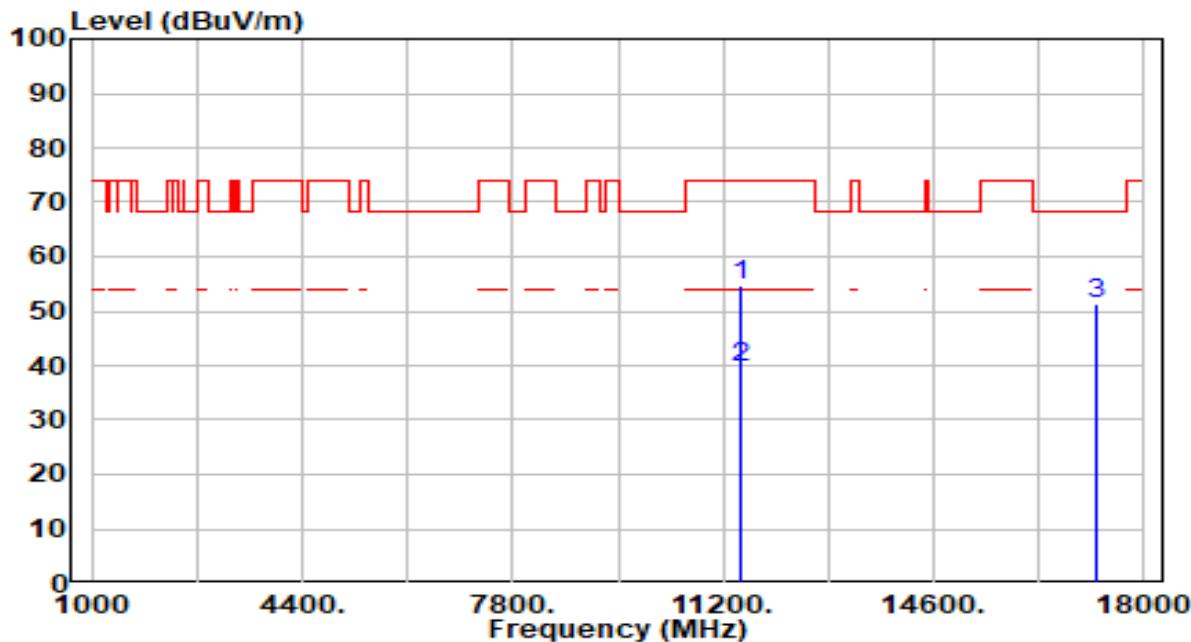


| No  | Frequency (MHz) | Reading (dB <sub>B</sub> V) | C.F (dB/m) | Measurement (dB <sub>B</sub> V/m) | Margin (dB) | Limit (dB <sub>B</sub> V/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|-----------------------------|------------|-----------------------------------|-------------|-----------------------------|-------------|-------------|-------------------|
| 1   | 11490.000       | 55.79                       | 3.57       | 59.36                             | -14.64      | 74.00                       | 200         | 20          | Peak              |
| 2 * | 11490.000       | 40.85                       | 3.57       | 44.42                             | -9.58       | 54.00                       | 200         | 20          | Average           |
| 3 * | 17235.000       | 50.22                       | 4.45       | 54.67                             | -13.53      | 68.20                       | 200         | 46          | Peak              |

Note:

1. " \*\*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>B</sub>V/m) = Reading(dB<sub>B</sub>V) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11a_TX_Band4_CH 149_ANT 0+1                     | Test Voltage         | AC 120V/60Hz  |

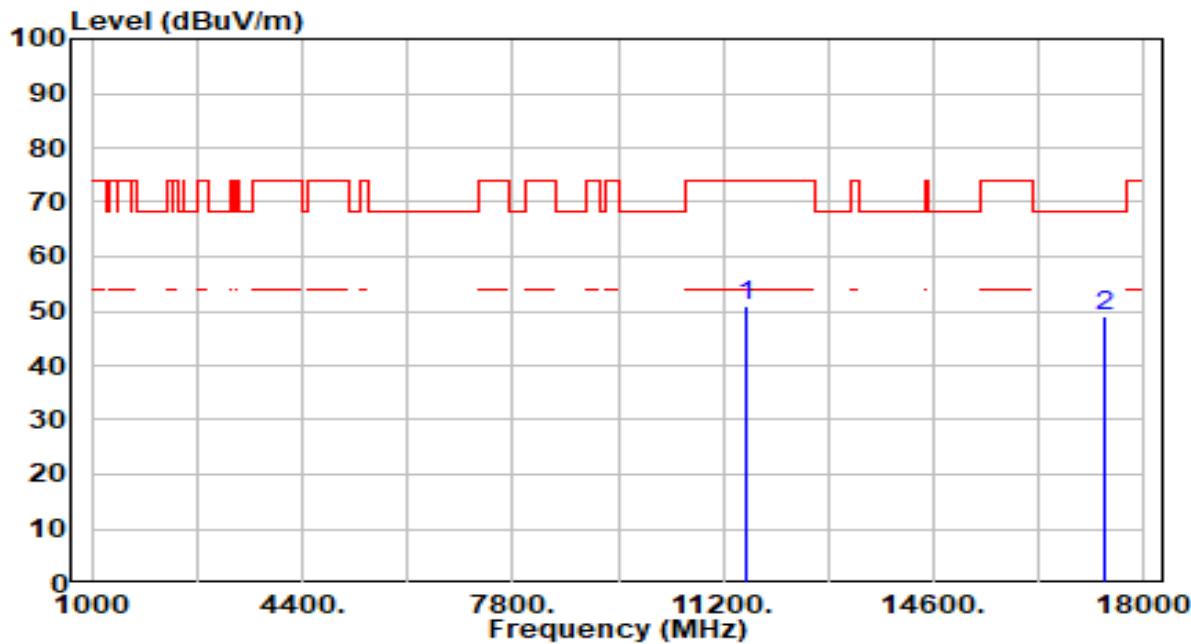


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1   | 11490.000       | 51.17          | 3.57       | 54.74                | -19.26      | 74.00          | 200         | 7           | Peak              |
| 2 * | 11490.000       | 36.17          | 3.57       | 39.74                | -14.26      | 54.00          | 200         | 7           | Average           |
| 3 * | 17235.000       | 46.84          | 4.45       | 51.30                | -16.90      | 68.20          | 200         | 22          | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11a_TX_Band4_CH 157_ANT 0+1                     | Test Voltage         | AC 120V/60Hz  |

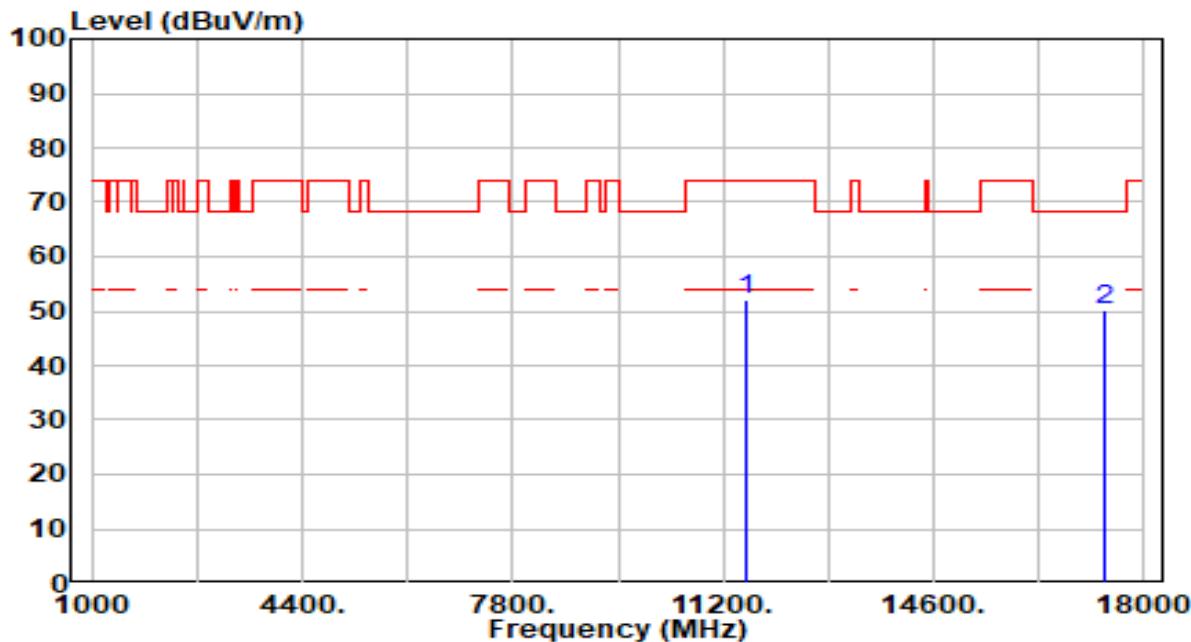


| No  | Frequency (MHz) | Reading (dB <sub>B</sub> V) | C.F (dB/m) | Measurement (dB <sub>B</sub> V/m) | Margin (dB) | Limit (dB <sub>B</sub> V/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|-----------------------------|------------|-----------------------------------|-------------|-----------------------------|-------------|-------------|-------------------|
| 1   | 11570.000       | 47.42                       | 3.65       | 51.07                             | -22.93      | 74.00                       | 200         | 20          | Peak              |
| 2 * | 17355.000       | 45.10                       | 4.06       | 49.15                             | -19.05      | 68.20                       | 200         | 46          | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>B</sub>V/m) = Reading(dB<sub>B</sub>V) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11a_TX_Band4_CH 157_ANT 0+1                     | Test Voltage         | AC 120V/60Hz  |

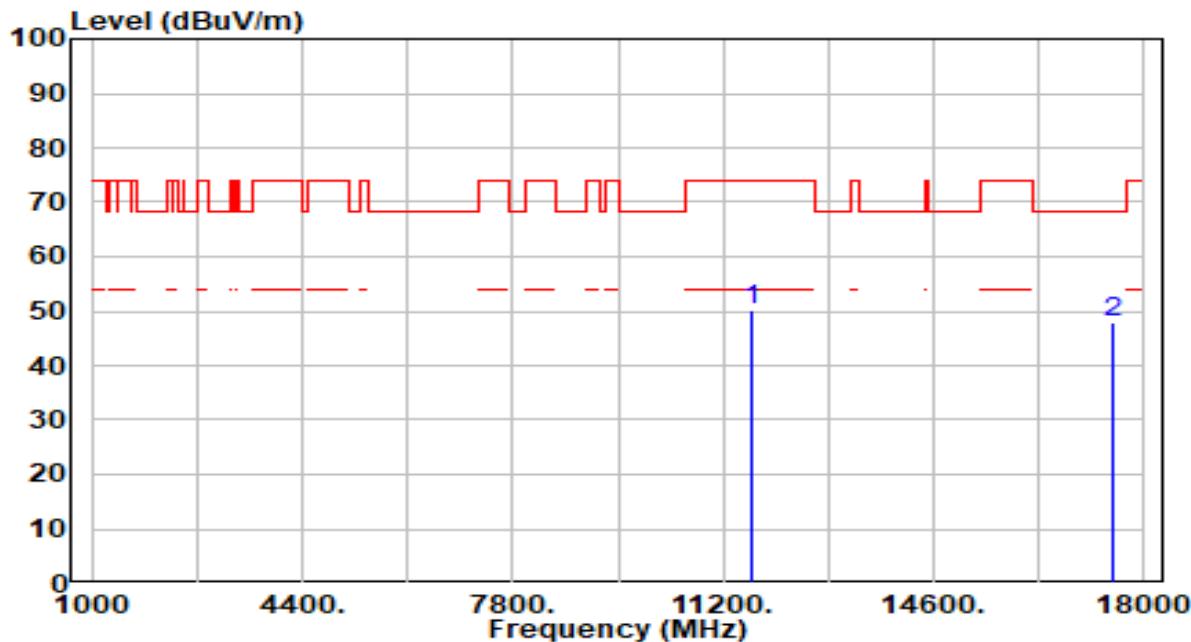


| No  | Frequency (MHz) | Reading (dB <sub>B</sub> V) | C.F (dB/m) | Measurement (dB <sub>B</sub> V/m) | Margin (dB) | Limit (dB <sub>B</sub> V/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|-----------------------------|------------|-----------------------------------|-------------|-----------------------------|-------------|-------------|-------------------|
| 1   | 11570.000       | 48.57                       | 3.65       | 52.23                             | -21.77      | 74.00                       | 200         | 20          | Peak              |
| 2 * | 17355.000       | 46.14                       | 4.06       | 50.20                             | -18.00      | 68.20                       | 200         | 49          | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>B</sub>V/m) = Reading(dB<sub>B</sub>V) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11a_TX_Band4_CH 165_ANT 0+1                     | Test Voltage         | AC 120V/60Hz  |

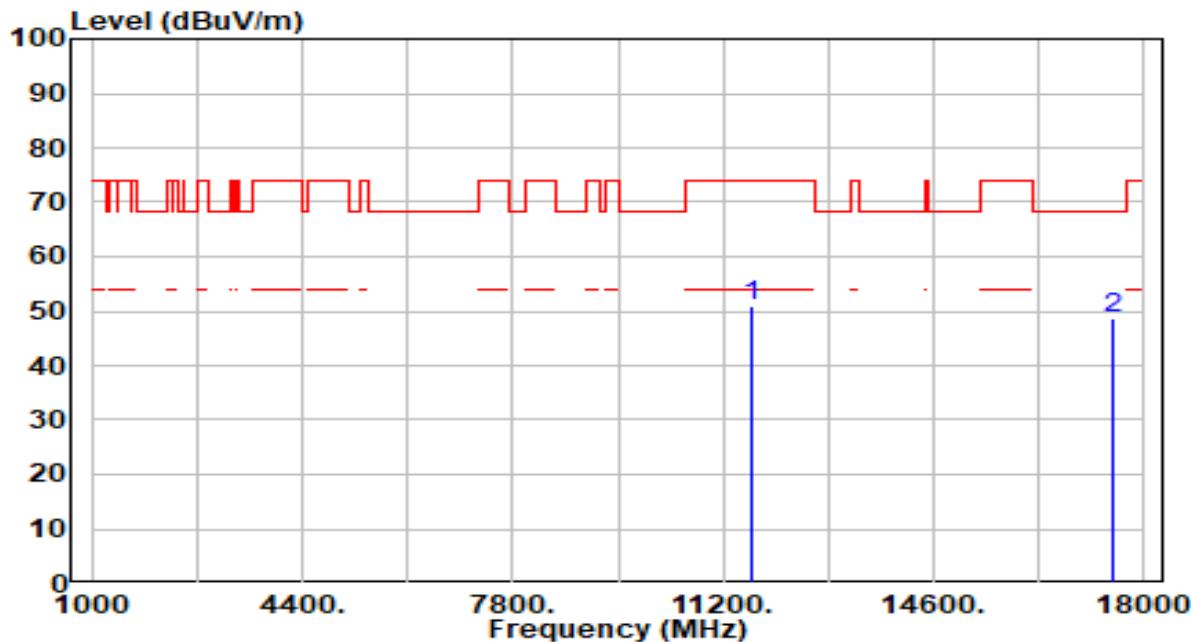


| No  | Frequency (MHz) | Reading (dB <sub>B</sub> V) | C.F (dB/m) | Measurement (dB <sub>B</sub> V/m) | Margin (dB) | Limit (dB <sub>B</sub> V/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|-----------------------------|------------|-----------------------------------|-------------|-----------------------------|-------------|-------------|-------------------|
| 1   | 11650.000       | 46.47                       | 3.66       | 50.13                             | -23.87      | 74.00                       | 200         | 218         | Peak              |
| 2 * | 17475.000       | 44.21                       | 3.89       | 48.10                             | -20.10      | 68.20                       | 200         | 74          | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>B</sub>V/m) = Reading(dB<sub>B</sub>V) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11a_TX_Band4_CH 165_ANT 0+1                     | Test Voltage         | AC 120V/60Hz  |

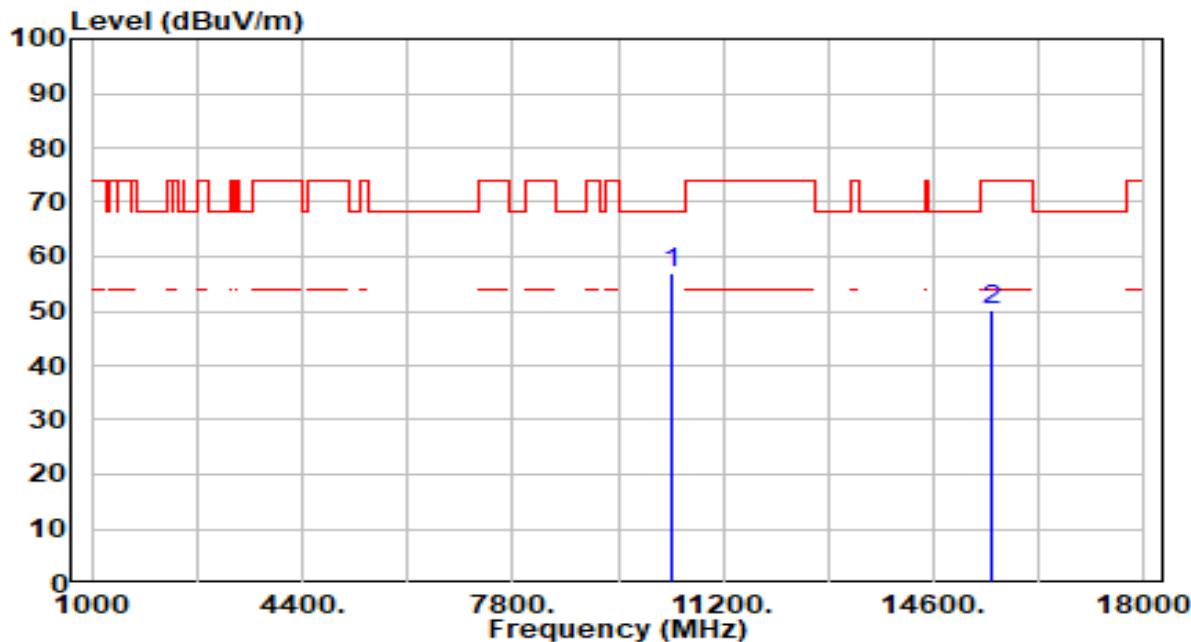


| No  | Frequency (MHz) | Reading (dB <sub>BuV</sub> ) | C.F (dB/m) | Measurement (dB <sub>BuV/m</sub> ) | Margin (dB) | Limit (dB <sub>BuV/m</sub> ) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1   | 11650.000       | 47.34                        | 3.66       | 51.00                              | -23.00      | 74.00                        | 200         | 354         | Peak              |
| 2 * | 17475.000       | 44.80                        | 3.89       | 48.69                              | -19.51      | 68.20                        | 200         | 147         | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band1_CH 36_ANT 0+1                | Test Voltage         | AC 120V/60Hz  |

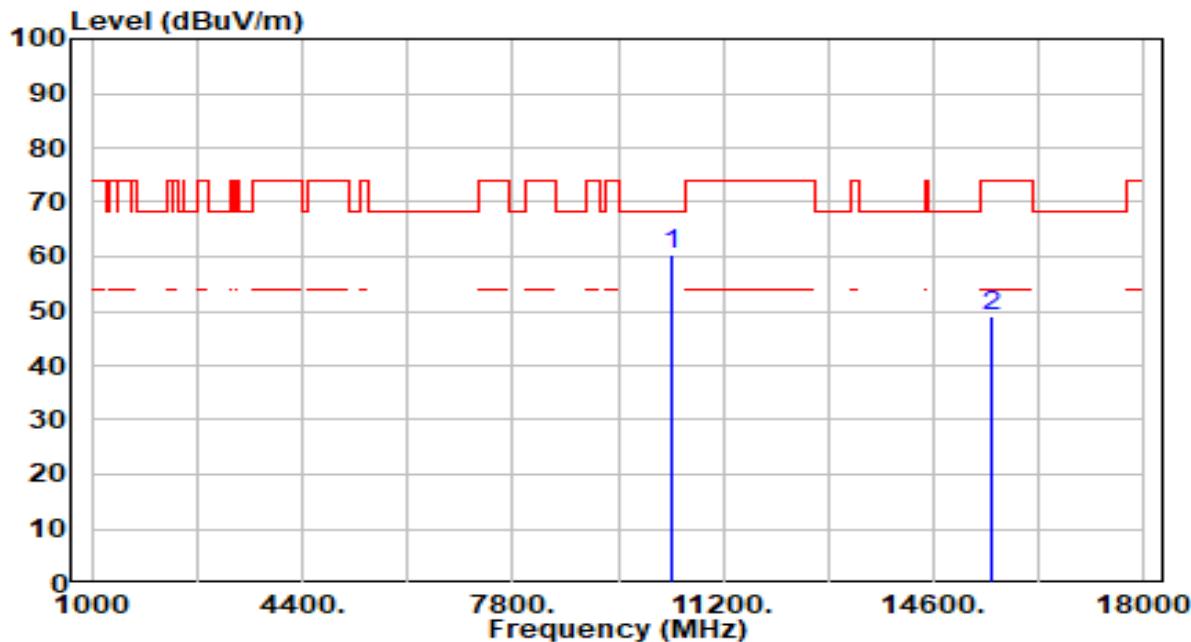


| No  | Frequency (MHz) | Reading (dB <sub>BuV</sub> ) | C.F (dB/m) | Measurement (dB <sub>BuV/m</sub> ) | Margin (dB) | Limit (dB <sub>BuV/m</sub> ) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1 * | 10360.000       | 54.02                        | 2.81       | 56.83                              | -11.37      | 68.20                        | 200         | 352         | Peak              |
| 2   | 15540.000       | 45.72                        | 4.52       | 50.25                              | -23.75      | 74.00                        | 200         | 54          | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band1_CH 36_ANT 0+1                | Test Voltage         | AC 120V/60Hz  |

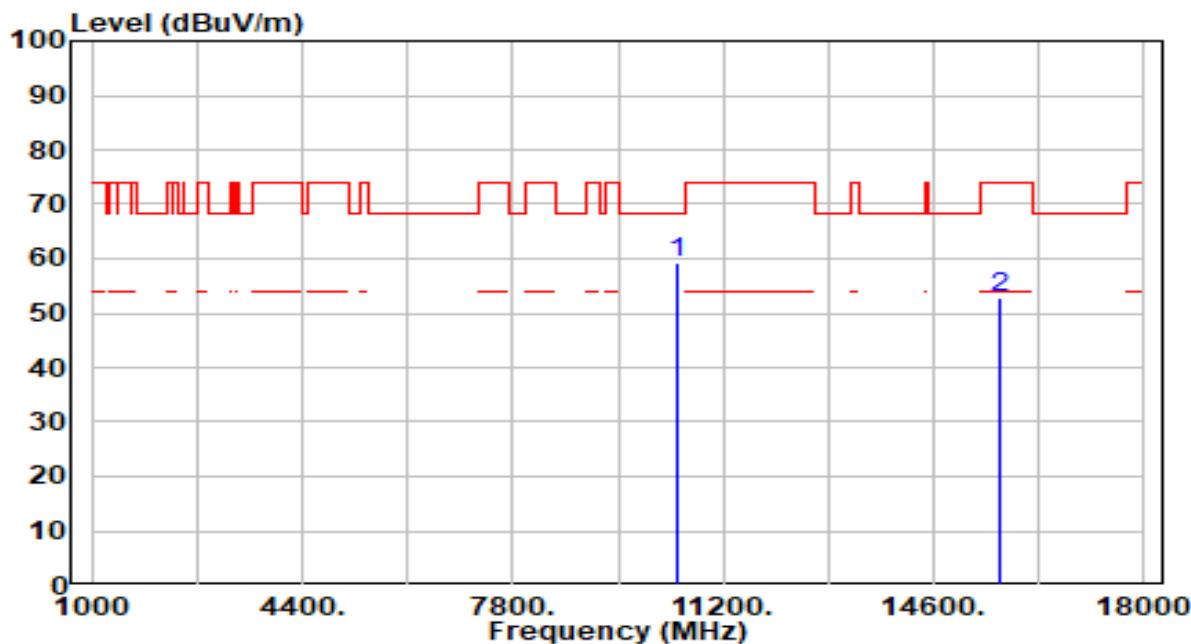


| No  | Frequency (MHz) | Reading (dB <sub>BuV</sub> ) | C.F (dB/m) | Measurement (dB <sub>BuV/m</sub> ) | Margin (dB) | Limit (dB <sub>BuV/m</sub> ) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1 * | 10360.000       | 57.61                        | 2.81       | 60.42                              | -7.78       | 68.20                        | 200         | 360         | Peak              |
| 2   | 15540.000       | 44.42                        | 4.52       | 48.94                              | -25.06      | 74.00                        | 200         | 34          | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band1_CH 44_ANT 0+1                | Test Voltage         | AC 120V/60Hz  |

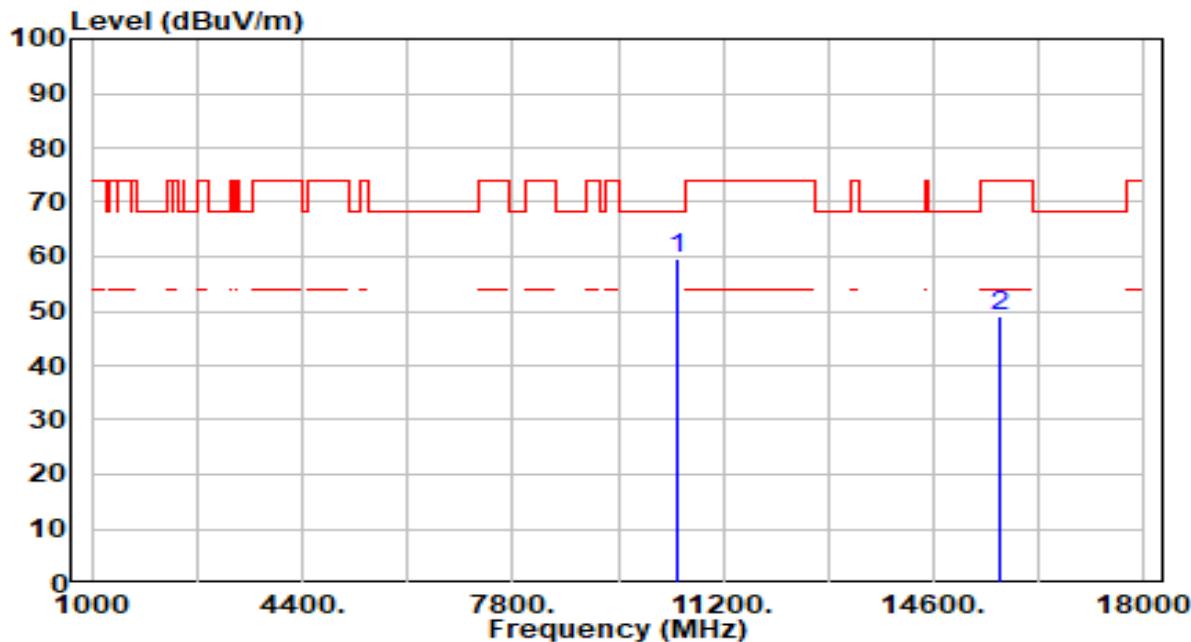


| No. | Frequency (MHz) | Reading (dB <sub>BuV</sub> ) | C.F. (dB/m) | Measurement (dB <sub>BuV/m</sub> ) | Margin (dB) | Limit (dB <sub>BuV/m</sub> ) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|-------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1 * | 10440.000       | 56.35                        | 2.72        | 59.07                              | -9.13       | 68.20                        | 200         | 349         | Peak              |
| 2   | 15660.000       | 48.28                        | 4.67        | 52.95                              | -21.05      | 74.00                        | 200         | 305         | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band1_CH 44_ANT 0+1                | Test Voltage         | AC 120V/60Hz  |

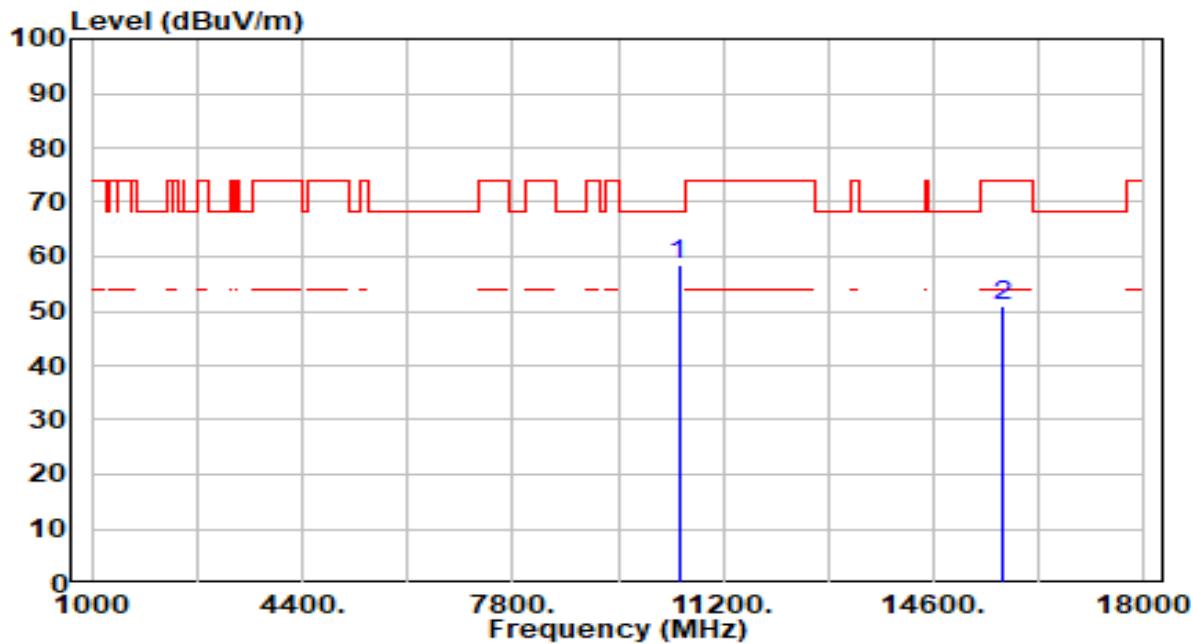


| No  | Frequency (MHz) | Reading (dB <sub>BuV</sub> ) | C.F (dB/m) | Measurement (dB <sub>BuV/m</sub> ) | Margin (dB) | Limit (dB <sub>BuV/m</sub> ) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1 * | 10440.000       | 56.76                        | 2.72       | 59.48                              | -8.72       | 68.20                        | 200         | 0           | Peak              |
| 2   | 15660.000       | 44.21                        | 4.67       | 48.89                              | -25.11      | 74.00                        | 200         | 280         | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band1_CH 48_ANT 0+1                | Test Voltage         | AC 120V/60Hz  |

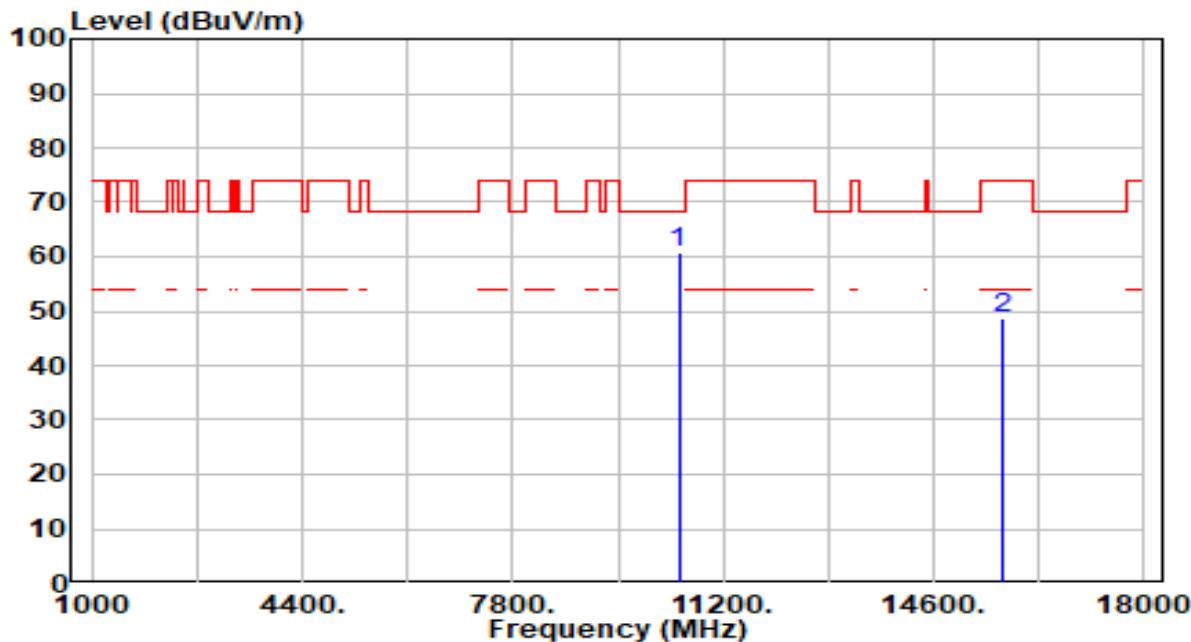


| No  | Frequency (MHz) | Reading (dB <sub>BuV</sub> ) | C.F (dB/m) | Measurement (dB <sub>BuV/m</sub> ) | Margin (dB) | Limit (dB <sub>BuV/m</sub> ) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1 * | 10480.000       | 55.98                        | 2.68       | 58.66                              | -9.54       | 68.20                        | 200         | 341         | Peak              |
| 2   | 15720.000       | 46.10                        | 4.84       | 50.93                              | -23.07      | 74.00                        | 200         | 304         | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band1_CH 48_ANT 0+1                | Test Voltage         | AC 120V/60Hz  |

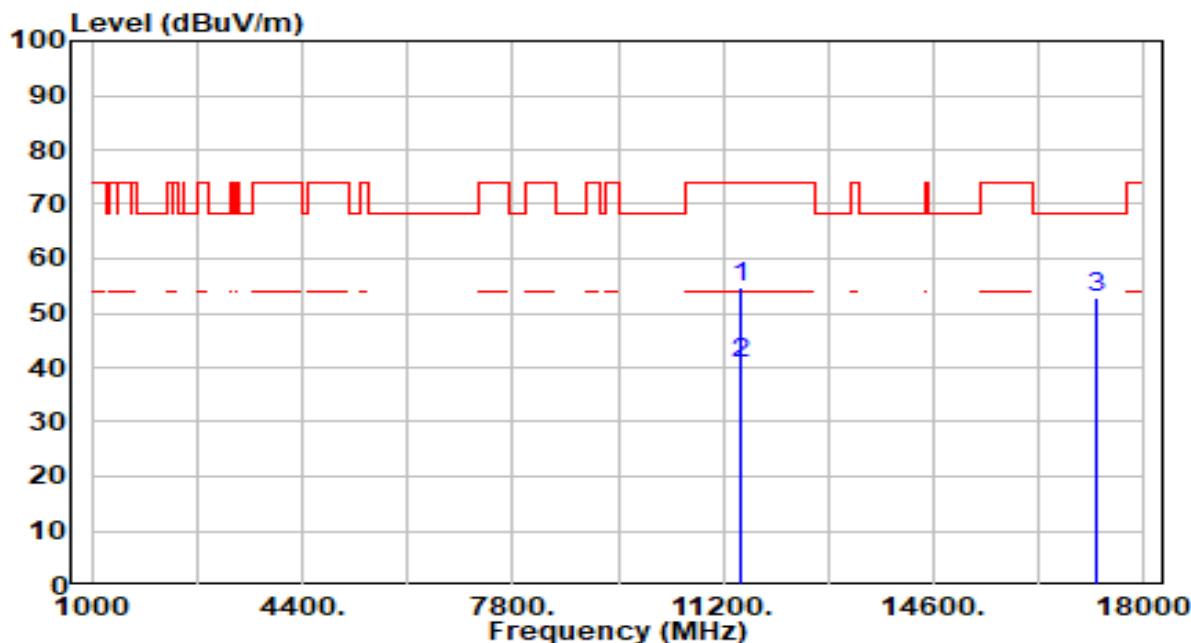


| No  | Frequency (MHz) | Reading (dB <sub>BuV</sub> ) | C.F (dB/m) | Measurement (dB <sub>BuV/m</sub> ) | Margin (dB) | Limit (dB <sub>BuV/m</sub> ) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1 * | 10480.000       | 58.02                        | 2.68       | 60.70                              | -7.50       | 68.20                        | 200         | 360         | Peak              |
| 2   | 15720.000       | 44.02                        | 4.84       | 48.85                              | -25.15      | 74.00                        | 200         | 41          | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band4_CH 149_ANT 0+1               | Test Voltage         | AC 120V/60Hz  |

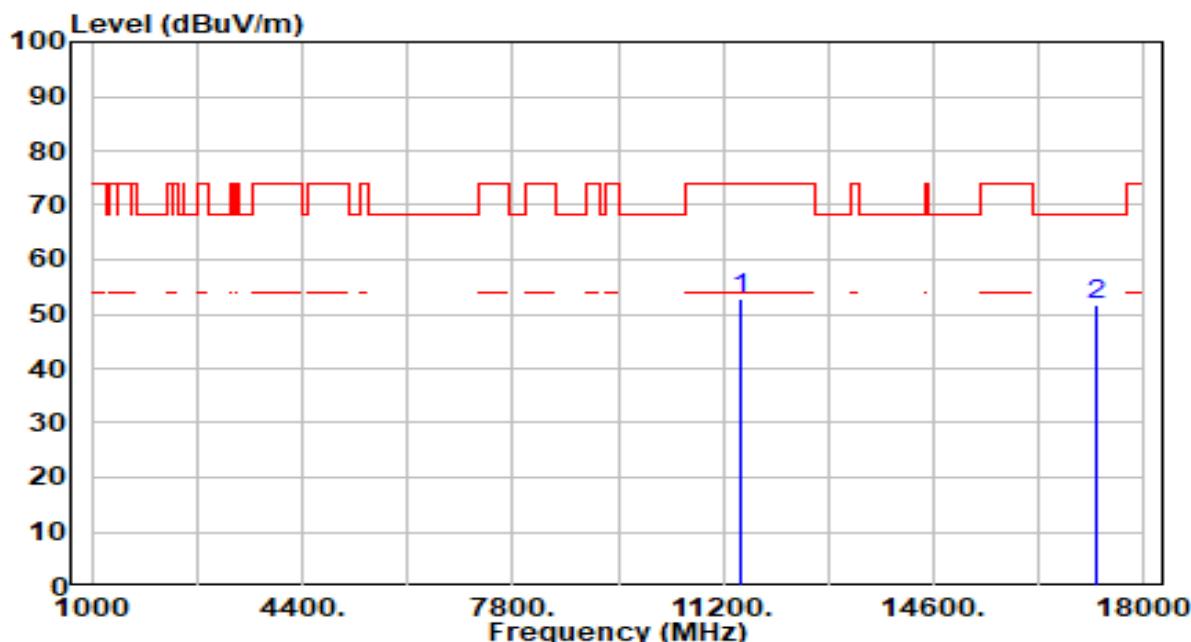


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1   | 11490.000       | 51.00          | 3.57       | 54.57                | -19.43      | 74.00          | 200         | 22          | Peak              |
| 2 * | 11490.000       | 37.00          | 3.57       | 40.57                | -13.43      | 54.00          | 200         | 22          | Average           |
| 3 * | 17235.000       | 48.39          | 4.45       | 52.84                | -15.36      | 68.20          | 200         | 69          | Peak              |

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band4_CH 149_ANT 0+1               | Test Voltage         | AC 120V/60Hz  |

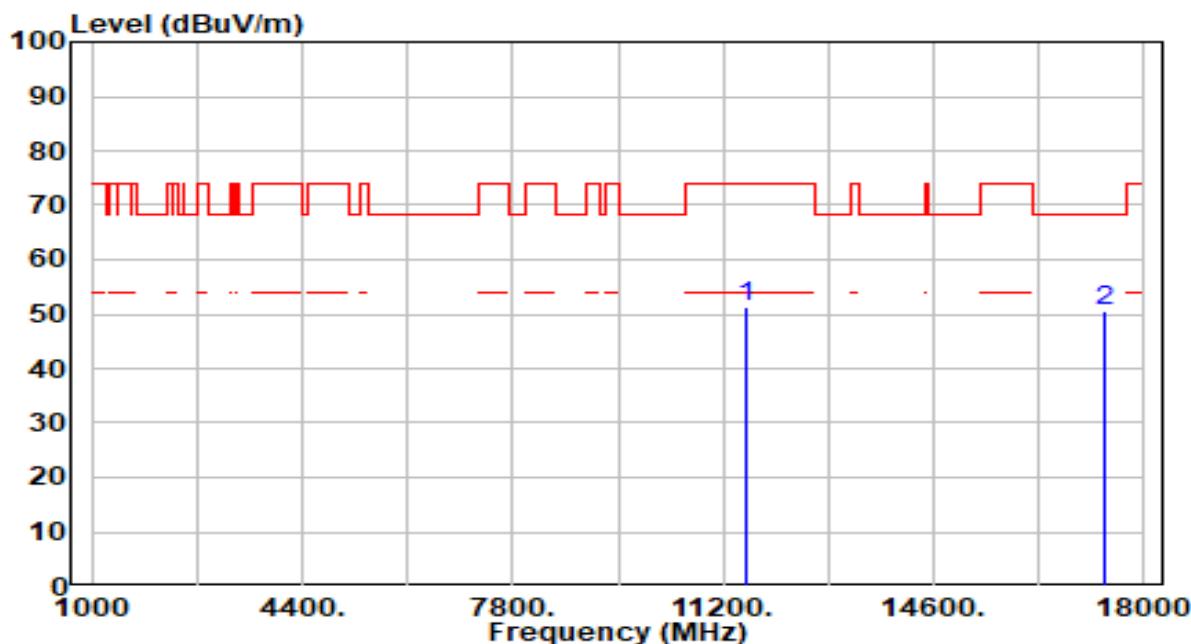


| No  | Frequency (MHz) | Reading (dB <sub>BuV</sub> ) | C.F (dB/m) | Measurement (dB <sub>BuV/m</sub> ) | Margin (dB) | Limit (dB <sub>BuV/m</sub> ) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1   | 11490.000       | 49.38                        | 3.57       | 52.94                              | -21.06      | 74.00                        | 200         | 27          | Peak              |
| 2 * | 17235.000       | 47.06                        | 4.45       | 51.51                              | -16.69      | 68.20                        | 200         | 35          | Peak              |

Note:

1. " \*\*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band4_CH 157_ANT 0+1               | Test Voltage         | AC 120V/60Hz  |

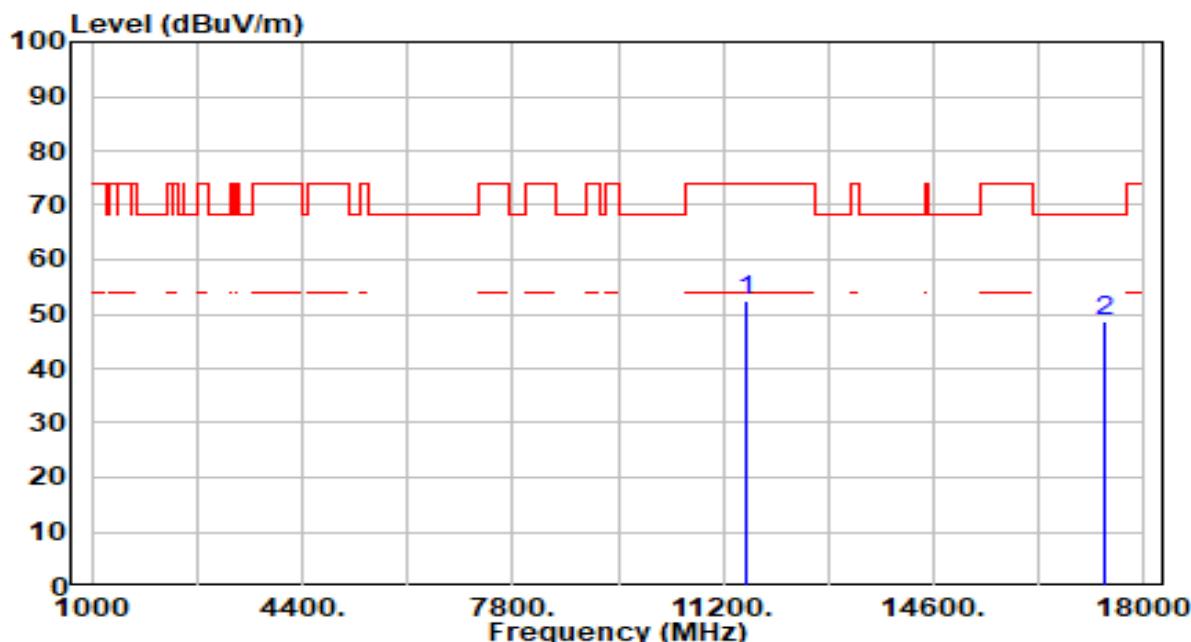


| No  | Frequency (MHz) | Reading (dB <sub>B</sub> V) | C.F (dB/m) | Measurement (dB <sub>B</sub> V/m) | Margin (dB) | Limit (dB <sub>B</sub> V/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|-----------------------------|------------|-----------------------------------|-------------|-----------------------------|-------------|-------------|-------------------|
| 1   | 11570.000       | 47.72                       | 3.65       | 51.37                             | -22.63      | 74.00                       | 200         | 14          | Peak              |
| 2 * | 17355.000       | 46.65                       | 4.06       | 50.71                             | -17.49      | 68.20                       | 200         | 289         | Peak              |

Note:

1. " \*\*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>B</sub>V/m) = Reading(dB<sub>B</sub>V) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band4_CH 157_ANT 0+1               | Test Voltage         | AC 120V/60Hz  |

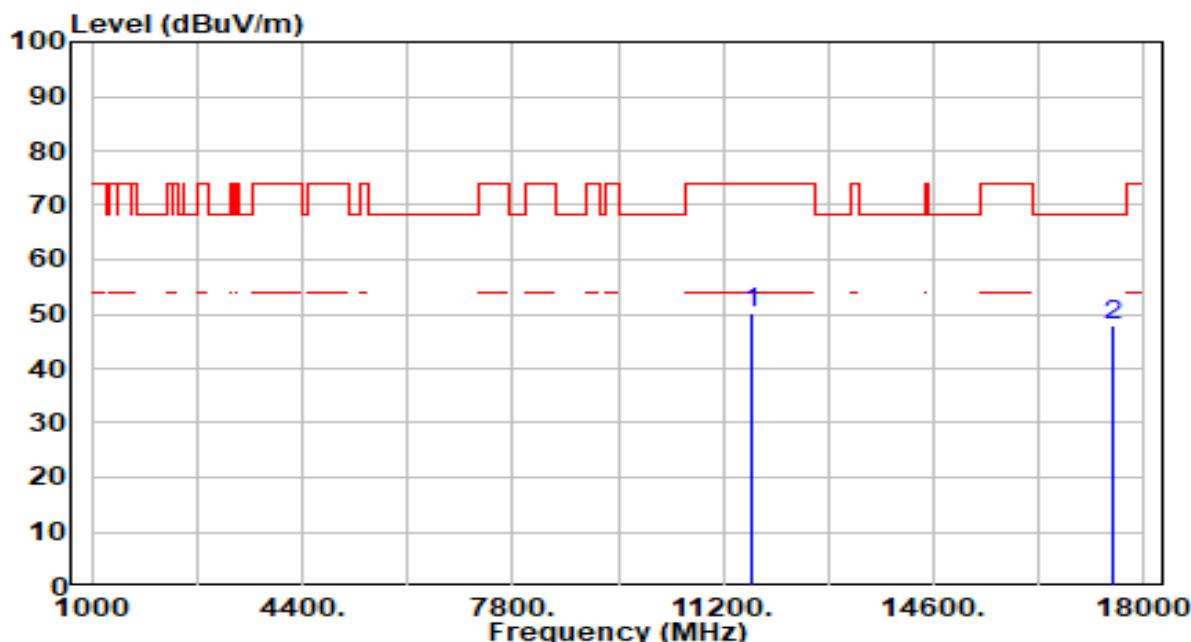


| No  | Frequency (MHz) | Reading (dB <sub>BuV</sub> ) | C.F (dB/m) | Measurement (dB <sub>BuV/m</sub> ) | Margin (dB) | Limit (dB <sub>BuV/m</sub> ) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1   | 11570.000       | 48.97                        | 3.65       | 52.62                              | -21.38      | 74.00                        | 200         | 0           | Peak              |
| 2 * | 17355.000       | 44.78                        | 4.06       | 48.84                              | -19.36      | 68.20                        | 200         | 173         | Peak              |

Note:

1. " \*\*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band4_CH 165_ANT 0+1               | Test Voltage         | AC 120V/60Hz  |

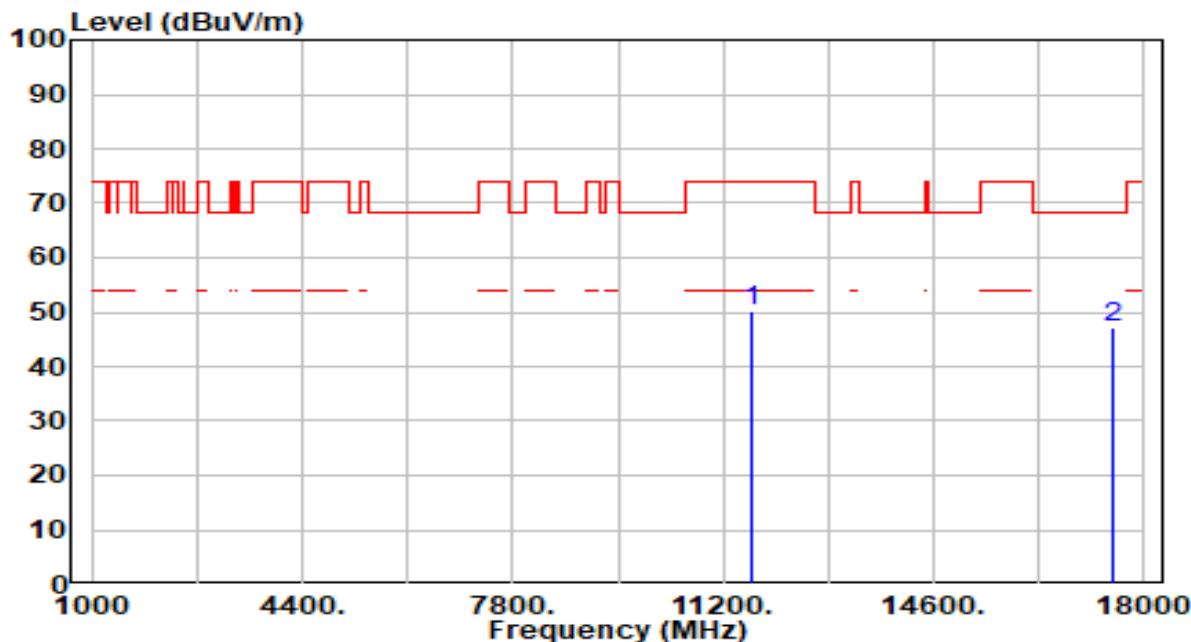


| No  | Frequency (MHz) | Reading (dB <sub>BuV</sub> ) | C.F (dB/m) | Measurement (dB <sub>BuV/m</sub> ) | Margin (dB) | Limit (dB <sub>BuV/m</sub> ) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1   | 11650.000       | 46.63                        | 3.66       | 50.29                              | -23.71      | 74.00                        | 200         | 11          | Peak              |
| 2 * | 17475.000       | 44.02                        | 3.89       | 47.91                              | -20.29      | 68.20                        | 200         | 311         | Peak              |

Note:

1. " \*\*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band4_CH 165_ANT 0+1               | Test Voltage         | AC 120V/60Hz  |

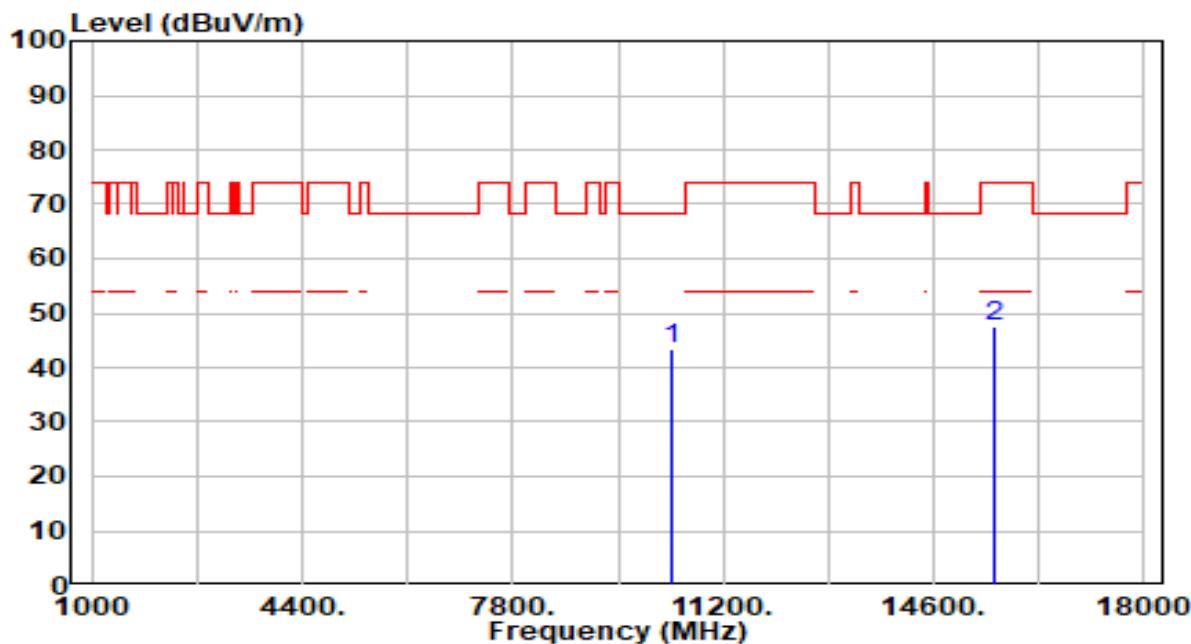


| No  | Frequency (MHz) | Reading (dB <sub>BuV</sub> ) | C.F (dB/m) | Measurement (dB <sub>BuV/m</sub> ) | Margin (dB) | Limit (dB <sub>BuV/m</sub> ) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1   | 11650.000       | 46.68                        | 3.66       | 50.34                              | -23.66      | 74.00                        | 200         | 360         | Peak              |
| 2 * | 17475.000       | 43.31                        | 3.89       | 47.20                              | -21.00      | 68.20                        | 200         | 360         | Peak              |

Note:

1. " \*\*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-40MHz_TX_Band1_CH 38_ANT 0+1                | Test Voltage         | AC 120V/60Hz  |

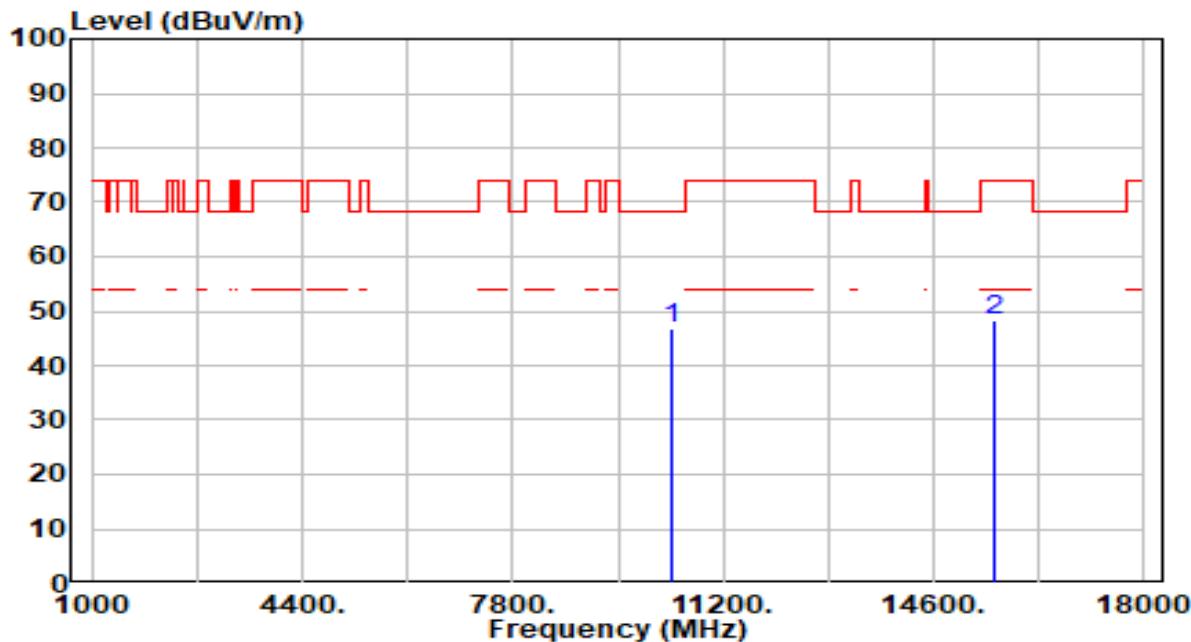


| No  | Frequency (MHz) | Reading (dB <sub>BuV</sub> ) | C.F (dB/m) | Measurement (dB <sub>BuV/m</sub> ) | Margin (dB) | Limit (dB <sub>BuV/m</sub> ) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1 * | 10380.000       | 40.65                        | 2.79       | 43.44                              | -24.76      | 68.20                        | 200         | 341         | Peak              |
| 2   | 15570.000       | 43.17                        | 4.52       | 47.69                              | -26.31      | 74.00                        | 200         | 171         | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-40MHz_TX_Band1_CH 38_ANT 0+1                | Test Voltage         | AC 120V/60Hz  |

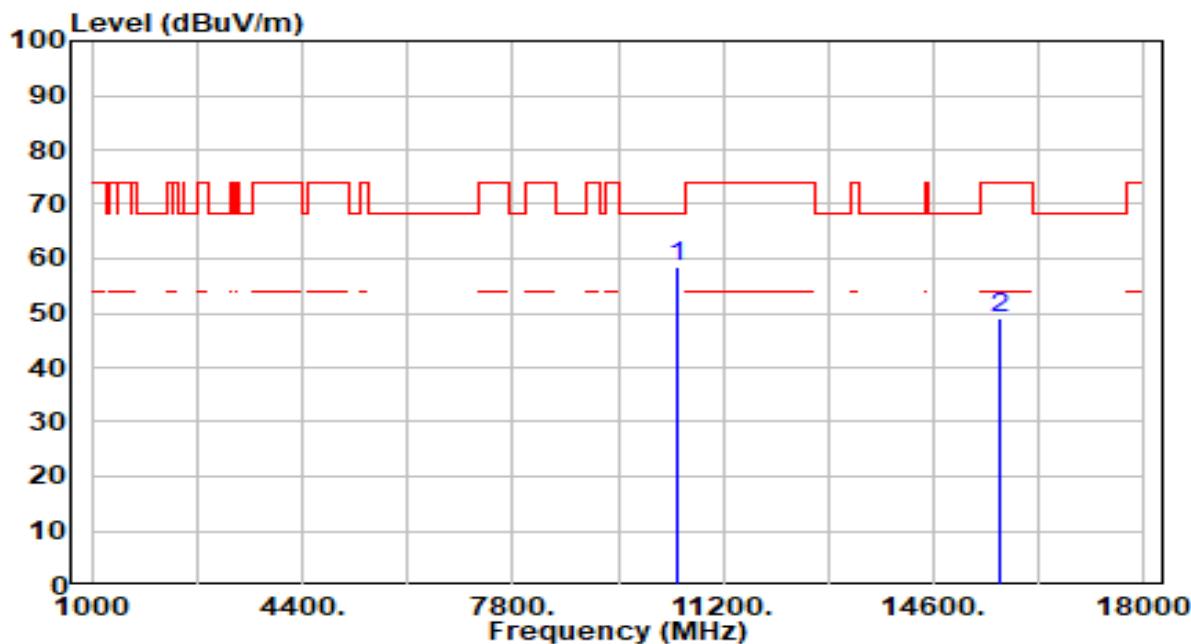


| No  | Frequency (MHz) | Reading (dB <sub>BuV</sub> ) | C.F (dB/m) | Measurement (dB <sub>BuV/m</sub> ) | Margin (dB) | Limit (dB <sub>BuV/m</sub> ) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1 * | 10380.000       | 43.97                        | 2.79       | 46.76                              | -21.44      | 68.20                        | 200         | 323         | Peak              |
| 2   | 15570.000       | 43.70                        | 4.52       | 48.22                              | -25.78      | 74.00                        | 200         | 159         | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-40MHz_TX_Band1_CH 46_ANT 0+1                | Test Voltage         | AC 120V/60Hz  |

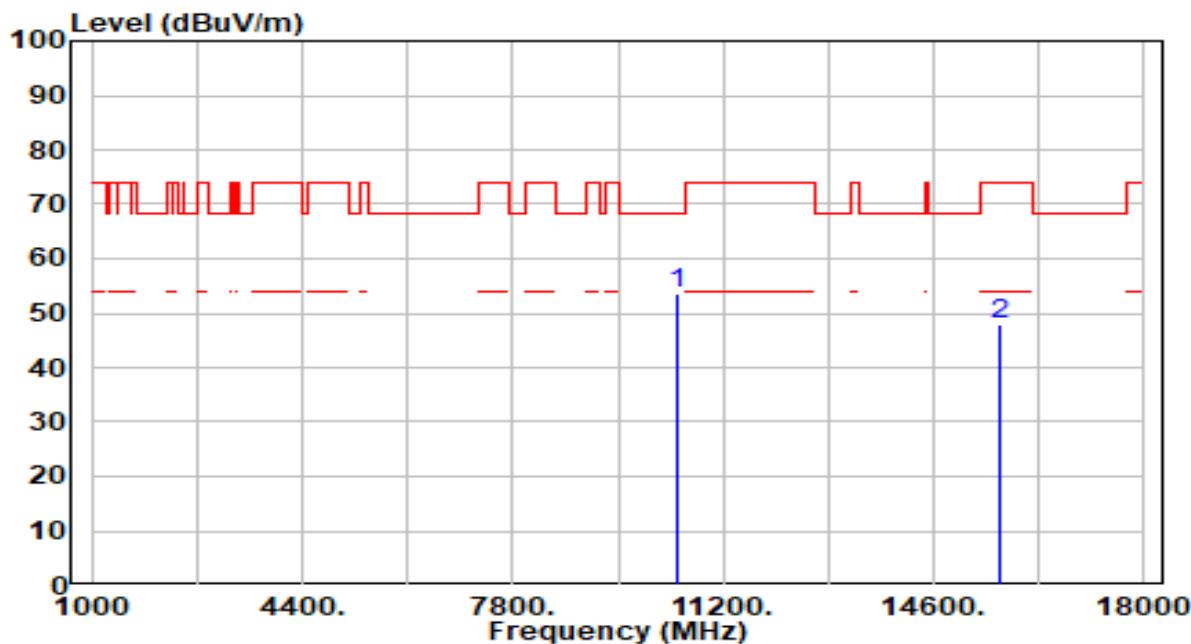


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1 * | 10460.000       | 55.61          | 2.70       | 58.31                | -9.89       | 68.20          | 200         | 357         | Peak              |
| 2   | 15690.000       | 44.32          | 4.75       | 49.07                | -24.93      | 74.00          | 200         | 252         | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-40MHz_TX_Band1_CH 46_ANT 0+1                | Test Voltage         | AC 120V/60Hz  |

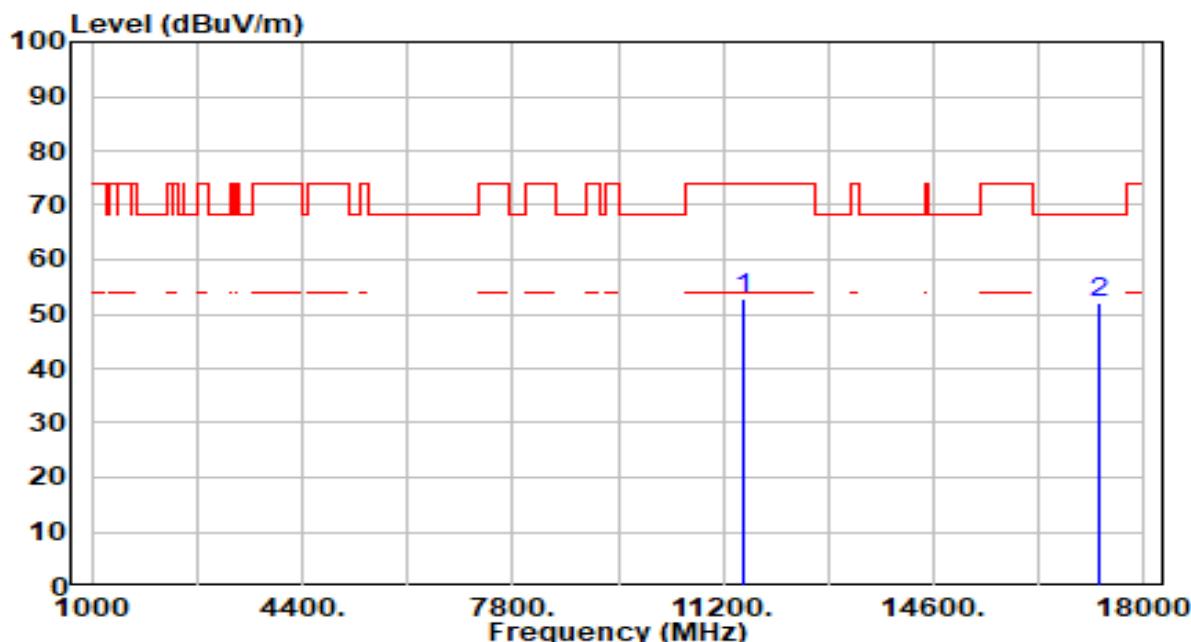


| No  | Frequency (MHz) | Reading (dB <sub>BuV</sub> ) | C.F (dB/m) | Measurement (dB <sub>BuV/m</sub> ) | Margin (dB) | Limit (dB <sub>BuV/m</sub> ) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1 * | 10460.000       | 51.06                        | 2.70       | 53.76                              | -14.44      | 68.20                        | 200         | 8           | Peak              |
| 2   | 15690.000       | 43.31                        | 4.75       | 48.07                              | -25.93      | 74.00                        | 200         | 86          | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-40MHz_TX_Band4_CH 151_ANT 0+1               | Test Voltage         | AC 120V/60Hz  |

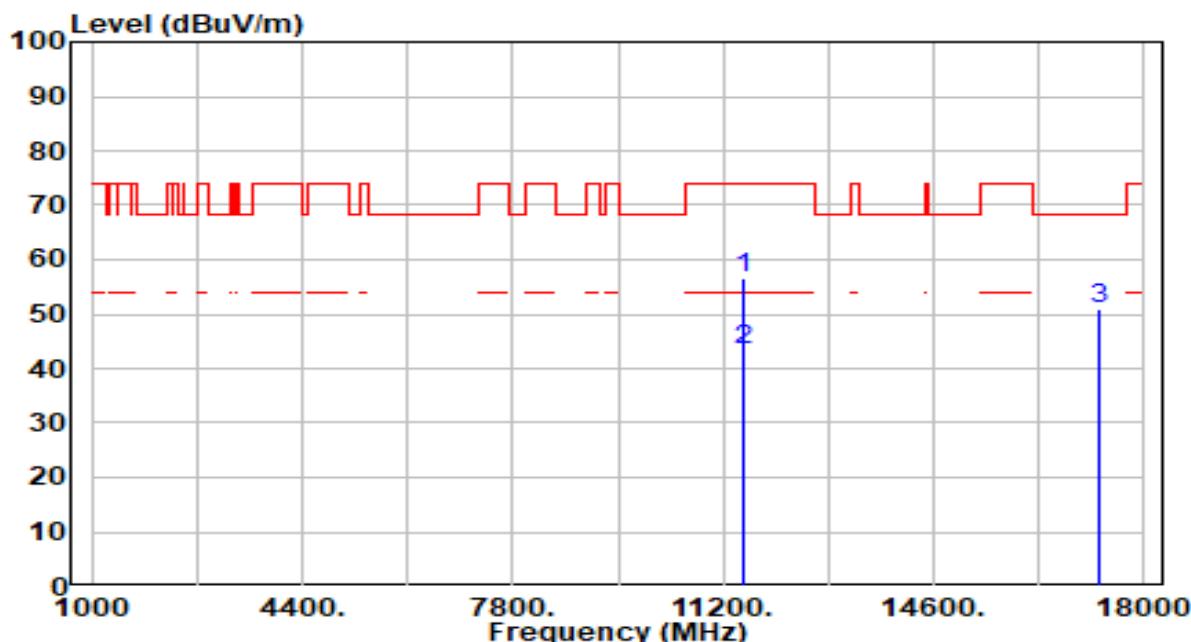


| No  | Frequency (MHz) | Reading (dB <sub>BuV</sub> ) | C.F (dB/m) | Measurement (dB <sub>BuV/m</sub> ) | Margin (dB) | Limit (dB <sub>BuV/m</sub> ) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1   | 11510.000       | 49.22                        | 3.59       | 52.81                              | -21.19      | 74.00                        | 200         | 141         | Peak              |
| 2 * | 17265.000       | 47.64                        | 4.35       | 52.00                              | -16.20      | 68.20                        | 200         | 288         | Peak              |

Note:

1. " \*\*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-40MHz_TX_Band4_CH 151_ANT 0+1               | Test Voltage         | AC 120V/60Hz  |

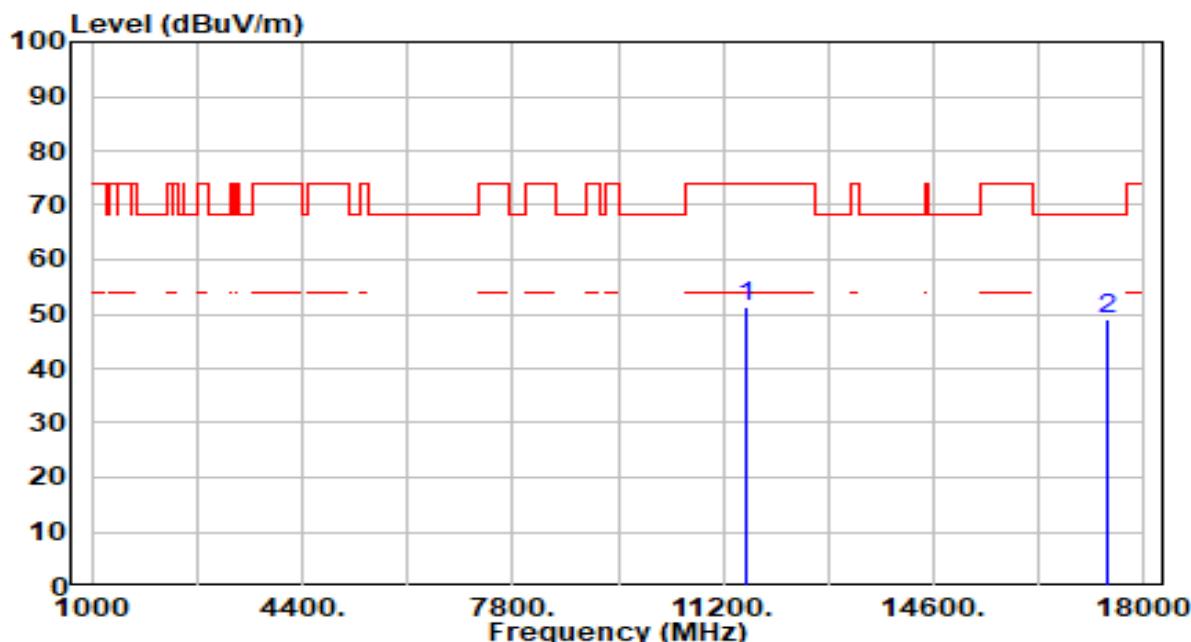


| No  | Frequency (MHz) | Reading (dB <sub>BuV</sub> ) | C.F (dB/m) | Measurement (dB <sub>BuV/m</sub> ) | Margin (dB) | Limit (dB <sub>BuV/m</sub> ) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1   | 11510.000       | 52.90                        | 3.59       | 56.48                              | -17.52      | 74.00                        | 200         | 349         | Peak              |
| 2 * | 11510.000       | 39.90                        | 3.59       | 43.48                              | -10.52      | 54.00                        | 200         | 349         | Average           |
| 3 * | 17265.000       | 46.78                        | 4.35       | 51.13                              | -17.07      | 68.20                        | 200         | 40          | Peak              |

Note:

1. " \*\*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-40MHz_TX_Band4_CH 159_ANT 0+1               | Test Voltage         | AC 120V/60Hz  |

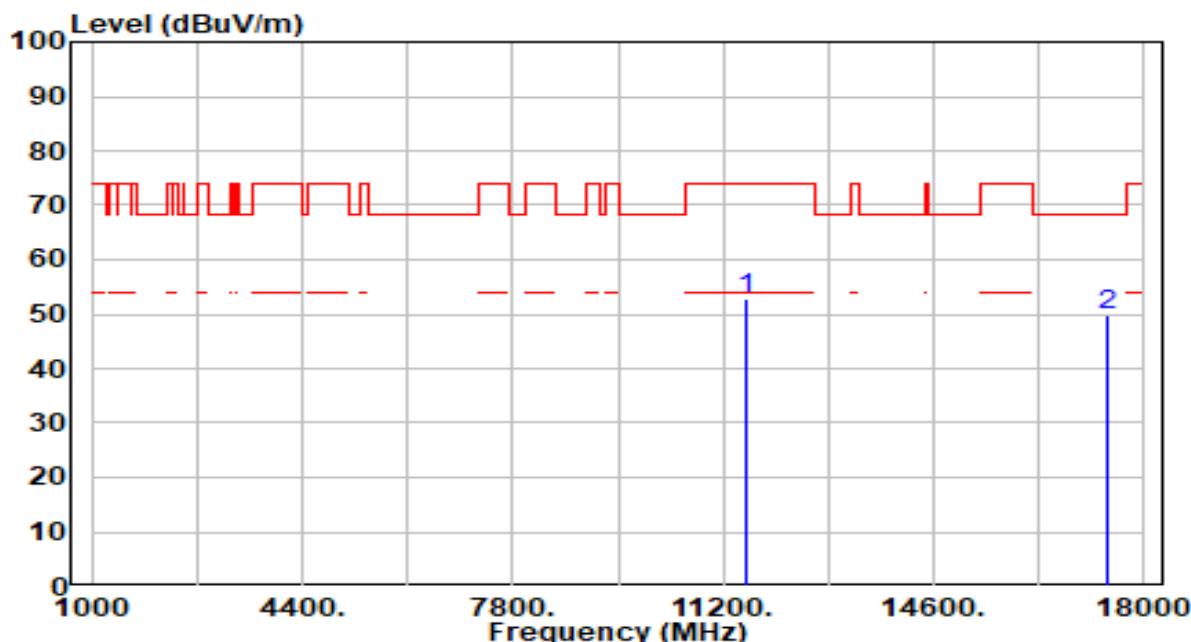


| No  | Frequency (MHz) | Reading (dB <sub>BuV</sub> ) | C.F (dB/m) | Measurement (dB <sub>BuV/m</sub> ) | Margin (dB) | Limit (dB <sub>BuV/m</sub> ) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1   | 11590.000       | 47.54                        | 3.67       | 51.22                              | -22.78      | 74.00                        | 200         | 143         | Peak              |
| 2 * | 17385.000       | 45.06                        | 3.96       | 49.02                              | -19.18      | 68.20                        | 200         | 54          | Peak              |

Note:

1. " \*\*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-40MHz_TX_Band4_CH 159_ANT 0+1               | Test Voltage         | AC 120V/60Hz  |

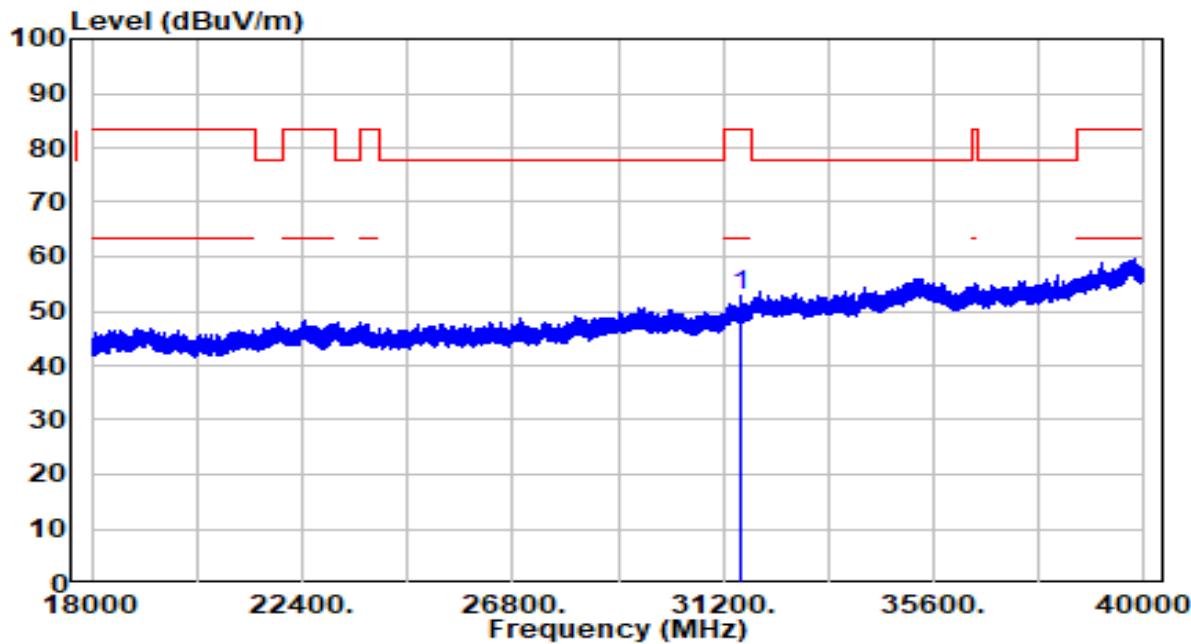


| No  | Frequency (MHz) | Reading (dB <sub>BuV</sub> ) | C.F (dB/m) | Measurement (dB <sub>BuV/m</sub> ) | Margin (dB) | Limit (dB <sub>BuV/m</sub> ) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1   | 11590.000       | 49.28                        | 3.67       | 52.95                              | -21.05      | 74.00                        | 200         | 0           | Peak              |
| 2 * | 17385.000       | 45.75                        | 3.96       | 49.71                              | -18.49      | 68.20                        | 200         | 46          | Peak              |

Note:

1. " \*\*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>BuV/m</sub>) = Reading(dB<sub>BuV</sub>) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-17    |
| Factor    | BBHA 9170   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band4_CH 44_ANT 0+1                | Test Voltage         | AC 120V/60Hz  |

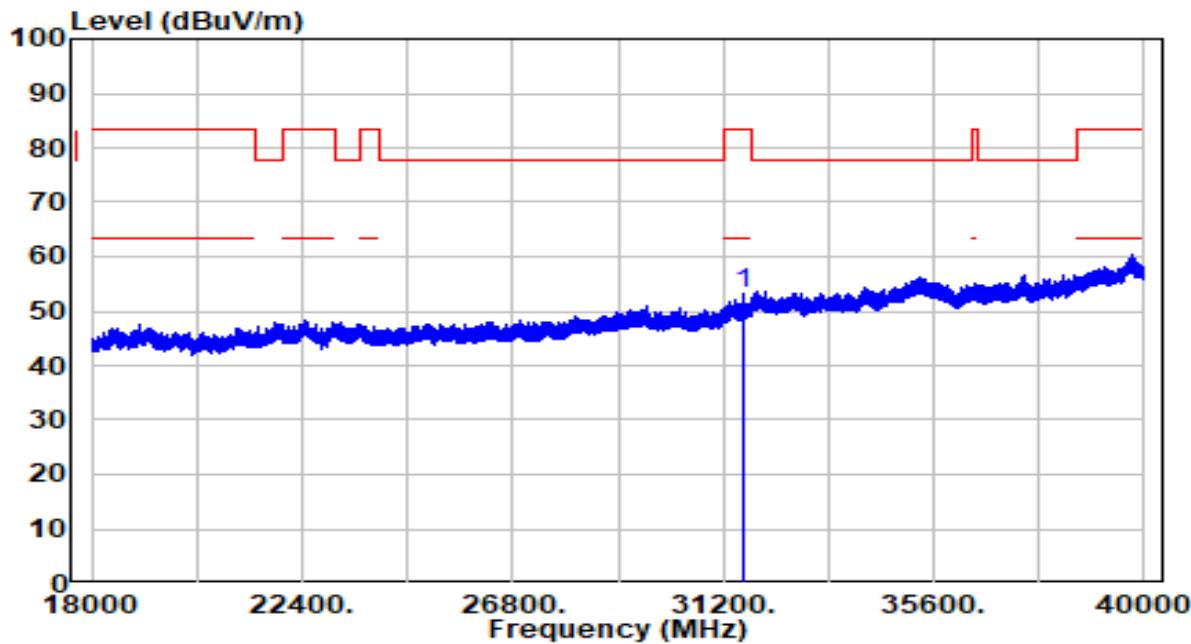


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1 * | 31568.500       | 34.81          | 18.01      | 52.82                | -30.68      | 83.50          | 150         | 360         | Peak              |

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-17    |
| Factor    | BBHA 9170   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band4_CH 44_ANT 0+1                | Test Voltage         | AC 120V/60Hz  |



| No  | Frequency (MHz) | Reading (dB <sub>B</sub> V) | C.F (dB/m) | Measurement (dB <sub>B</sub> V/m) | Margin (dB) | Limit (dB <sub>B</sub> V/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|-----------------------------|------------|-----------------------------------|-------------|-----------------------------|-------------|-------------|-------------------|
| 1 * | 31602.190       | 35.34                       | 18.05      | 53.39                             | -30.11      | 83.50                       | 150         | 360         | Peak              |

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dB<sub>B</sub>V/m) = Reading(dB<sub>B</sub>V) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

## 7.8. Radiated Restricted Band Edge Measurement

### 7.8.1. Test Limit

#### For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

| Frequency<br>(MHz)         | Frequency<br>(MHz) | Frequency<br>(MHz) | Frequency<br>(GHz) |
|----------------------------|--------------------|--------------------|--------------------|
| 0.090 - 0.110              | 16.42-16.423       | 399.9 - 410        | 4.5-5.15           |
| <sup>1</sup> 0.495 - 0.505 | 16.69475-16.69525  | 608 - 614          | 5.35-5.46          |
| 2.1735-2.1905              | 16.80425-16.80475  | 960 - 1240         | 7.25-7.75          |
| 4.125-4.128                | 25.5 -25.67        | 1300 - 1427        | 8.025 - 8.5        |
| 4.17725-4.17775            | 37.5-38.25         | 1435-1626.5        | 9.0-9.2            |
| 4.20725-4.20775            | 73-74.6            | 1645.5-1646.5      | 9.3-9.5            |
| 6.215-6.218                | 74.8-75.2          | 1660 - 1710        | 10.6-12.7          |
| 6.26775-6.26825            | 108-121.94         | 1718.8-1722.2      | 13.25-13.4         |
| 6.31175-6.31225            | 123 - 138          | 2200 - 2300        | 14.47-14.5         |
| 8.291-8.294                | 149.9-150.05       | 2310 - 2390        | 15.35-16.2         |
| 8.362-8.366                | 156.52475-156.525  | 2483.5 - 2500      | 17.7-21.4          |
| 8.37625-8.38675            | 156.7-156.9        | 2690 - 2900        | 22.01-23.12        |
| 8.41425-8.41475            | 162.0125-167.17    | 3260 - 3267        | 23.6-24.0          |
| 12.29-12.293               | 167.72-173.2       | 3332 - 3339        | 31.2-31.8          |
| 12.51975-12.52025          | 240 - 285          | 3345.8 - 3358      | 36.43-36.5         |
| 12.57675-12.57725          | 322-335.4          | 3600 - 4400        | ( <sup>2</sup> )   |
| 13.36-13.41                | --                 | --                 | --                 |

#### For 15.407(b) requirement:

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge

increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Refer to KDB 789033 D02v02r01 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

| FCC Part 15 Subpart C Paragraph 15.209 |                          |                               |
|--|--------------------------|-------------------------------|
| Frequency<br>[MHz]                     | Field Strength<br>[uV/m] | Measured Distance<br>[Meters] |
| 0.009 - 0.490                          | 2400/F (kHz)             | 300                           |
| 0.490 - 1.705                          | 24000/F (kHz)            | 30                            |
| 1.705 - 30                             | 30                       | 30                            |
| 30 - 88                                | 100                      | 3                             |
| 88 - 216                               | 150                      | 3                             |
| 216 - 960                              | 200                      | 3                             |
| Above 960                              | 500                      | 3                             |

### 7.8.2. Test Procedure Used

KDB 789033 D02v02r01- Section G

### 7.8.3. Test Setting

#### Peak Measurements above 1GHz

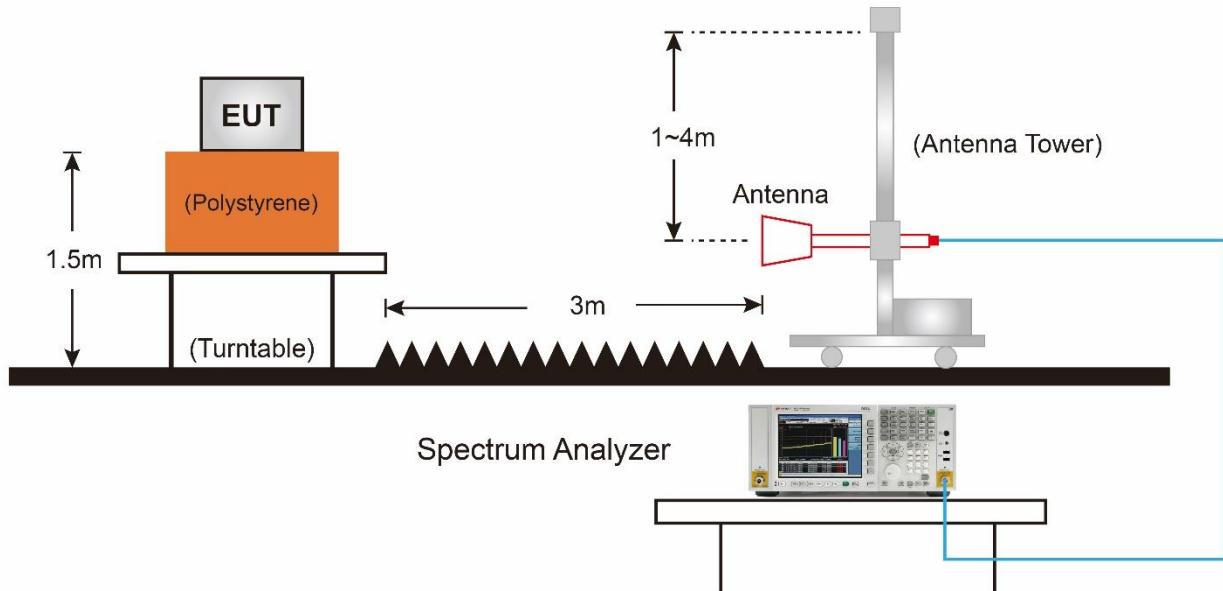
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold

7. Trace was allowed to stabilize

#### **Average Measurements above 1GHz (Method VB)**

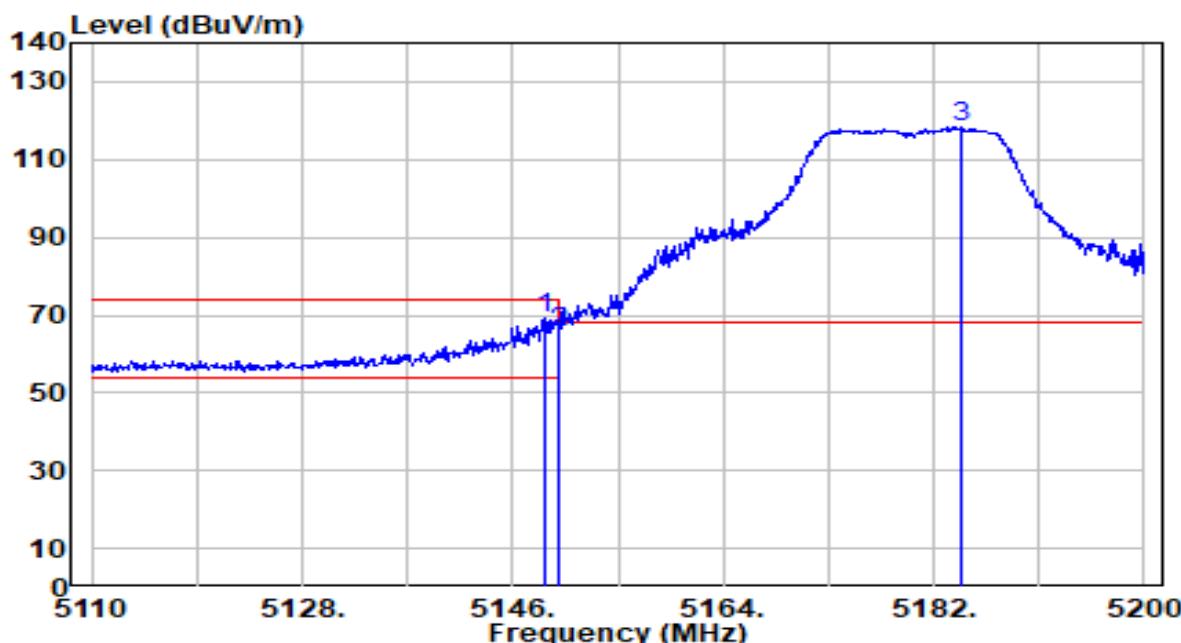
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBVW if the EUT is configured to transmit with duty cycle  $\geq 98\%$ , set VBVW  $\leq$  RBW/100 (i.e., 10 kHz) but not less than 10 Hz. If the EUT duty cycle is  $< 98\%$ , set VBVW  $\geq 1/T$ .
4. Detector = Peak
5. Sweep time = auto
6. Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98% duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of  $1/x$ , where  $x$  is the duty cycle.

#### **7.8.4. Test Setup**



### 7.8.5. Test Result

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11a_TX_Band1_CH 36_ANT 0+1                      | Test Voltage         | AC 120V/60Hz  |

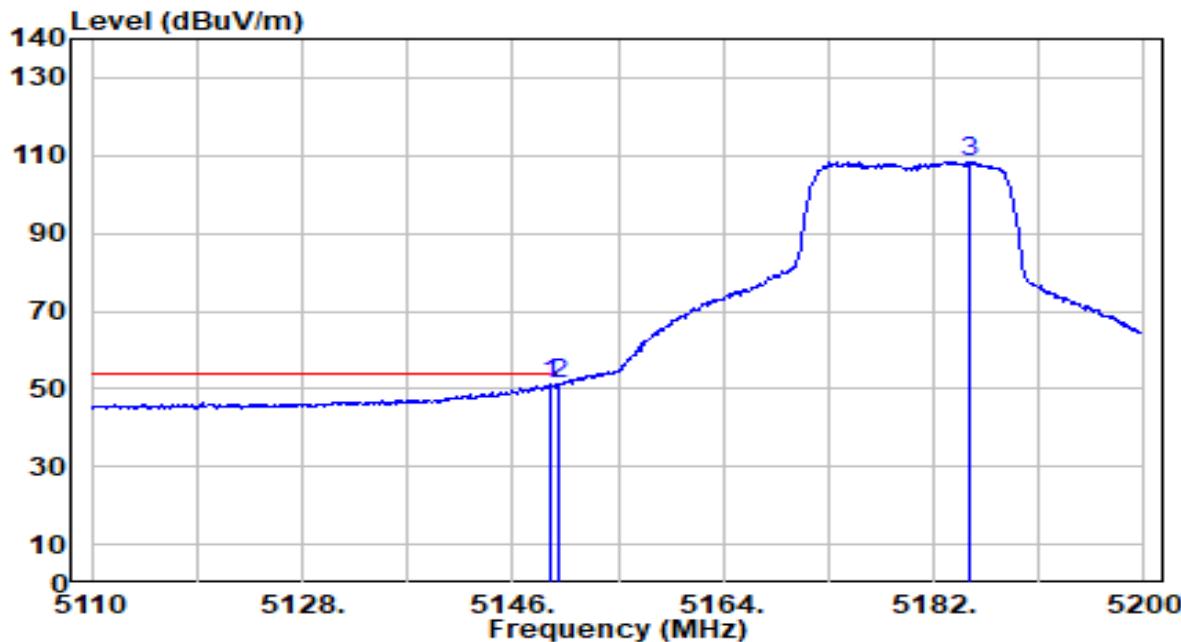


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1 * | 5148.700        | 69.68          | -0.72      | 68.96                | -5.04       | 74.00          | 154         | 180         | Peak              |
| 2   | 5150.000        | 66.47          | -0.72      | 65.75                | -8.25       | 74.00          | 154         | 180         | Peak              |
| 3   | 5184.340        | 119.00         | -0.74      | 118.26               | N/A         | N/A            | 154         | 180         | Peak              |

Note:

1. " \*\*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11a_TX_Band1_CH 36_ANT 0+1                      | Test Voltage         | AC 120V/60Hz  |

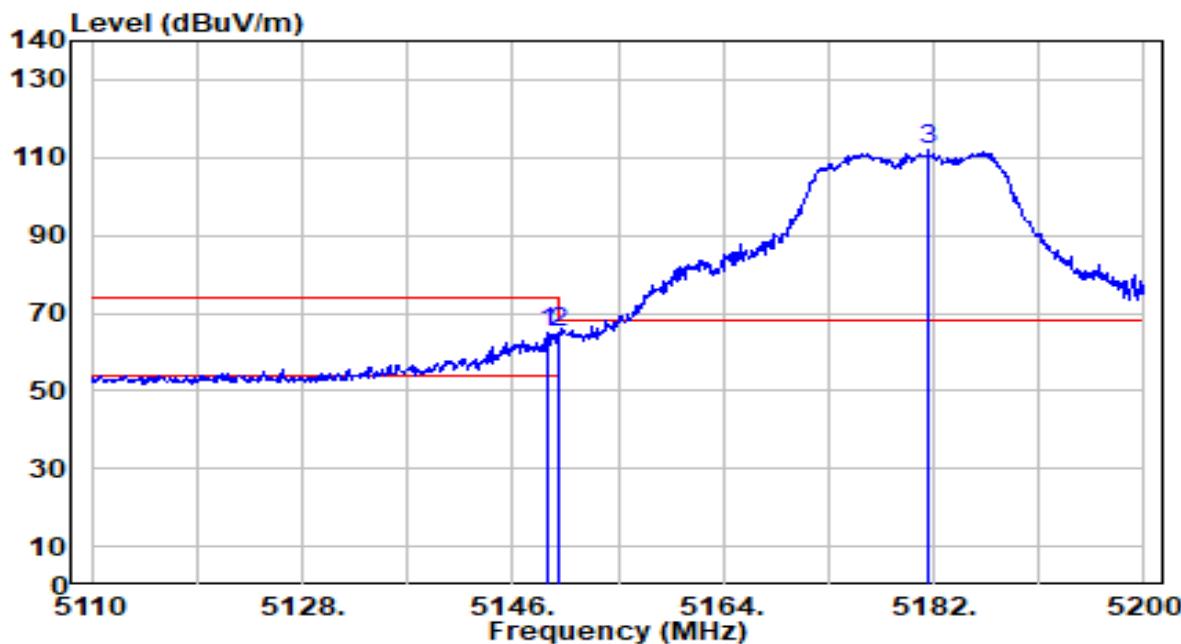


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1   | 5149.330        | 51.97          | -0.72      | 51.25                | -2.75       | 54.00          | 154         | 180         | Average           |
| 2 * | 5150.000        | 52.01          | -0.72      | 51.30                | -2.70       | 54.00          | 154         | 180         | Average           |
| 3   | 5185.060        | 109.08         | -0.74      | 108.35               | N/A         | N/A            | 154         | 180         | Average           |

Note:

1. " \*\*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11a_TX_Band1_CH 36_ANT 0+1                      | Test Voltage         | AC 120V/60Hz  |

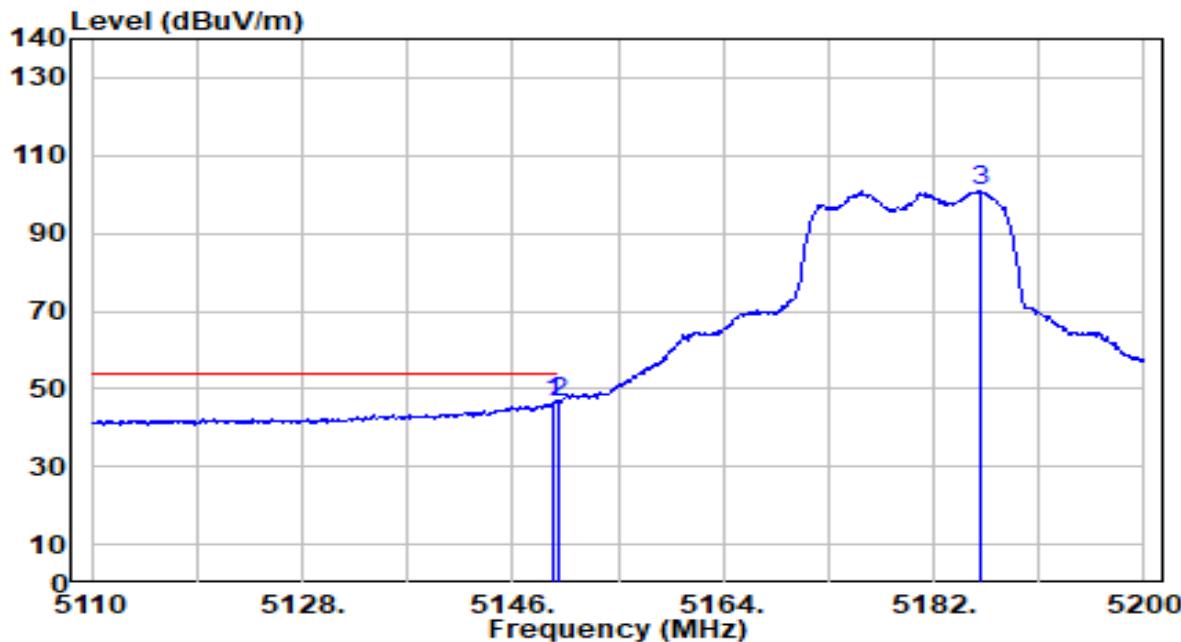


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1   | 5149.060        | 65.66          | -0.72      | 64.94                | -9.06       | 74.00          | 166         | 180         | Peak              |
| 2 * | 5150.000        | 65.93          | -0.72      | 65.21                | -8.79       | 74.00          | 166         | 180         | Peak              |
| 3   | 5181.550        | 112.70         | -0.73      | 111.97               | N/A         | N/A            | 166         | 180         | Peak              |

Note:

1. " \*\*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11a_TX_Band1_CH 36_ANT 0+1                      | Test Voltage         | AC 120V/60Hz  |

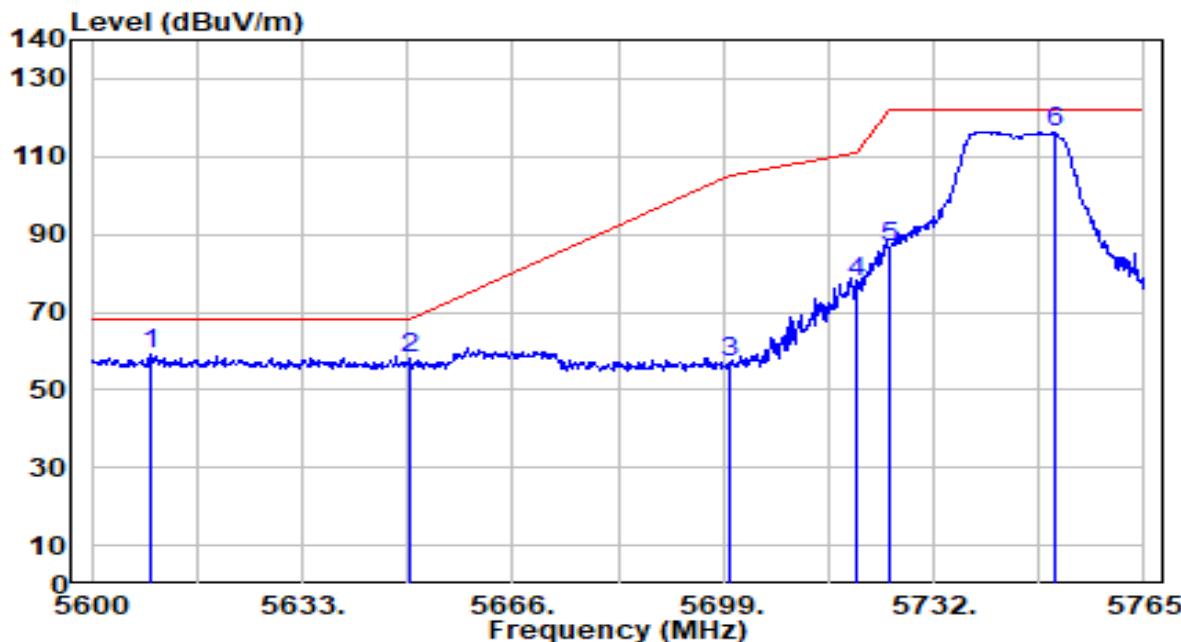


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1   | 5149.420        | 47.27          | -0.72      | 46.55                | -7.45       | 54.00          | 166         | 180         | Average           |
| 2 * | 5150.000        | 47.34          | -0.72      | 46.62                | -7.38       | 54.00          | 166         | 180         | Average           |
| 3   | 5185.960        | 101.47         | -0.74      | 100.73               | N/A         | N/A            | 166         | 180         | Average           |

Note:

1. " \*\*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11a_TX_Band1_CH 149_ANT 0+1                     | Test Voltage         | AC 120V/60Hz  |

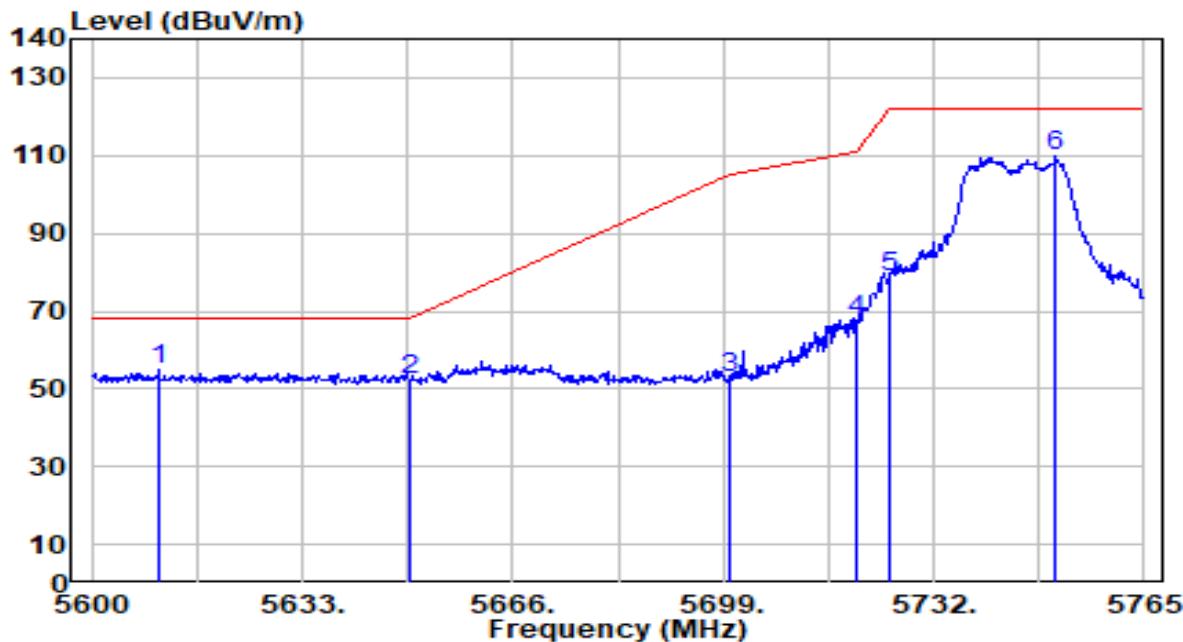


| No  | Frequency (MHz) | Reading (dB <sub>B</sub> uV) | C.F (dB/m) | Measurement (dB <sub>B</sub> uV/m) | Margin (dB) | Limit (dB <sub>B</sub> uV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|------------------------------|------------|------------------------------------|-------------|------------------------------|-------------|-------------|-------------------|
| 1 * | 5609.405        | 59.63                        | -0.38      | 59.25                              | -8.95       | 68.20                        | 166         | 173         | Peak              |
| 2   | 5650.000        | 58.33                        | -0.16      | 58.17                              | -10.03      | 68.20                        | 166         | 173         | Peak              |
| 3   | 5700.000        | 56.86                        | 0.10       | 56.96                              | -48.24      | 105.20                       | 166         | 173         | Peak              |
| 4   | 5720.000        | 77.32                        | 0.20       | 77.52                              | -33.28      | 110.80                       | 166         | 173         | Peak              |
| 5   | 5725.000        | 86.18                        | 0.23       | 86.41                              | -35.79      | 122.20                       | 166         | 173         | Peak              |
| 6   | 5751.140        | 116.09                       | 0.37       | 116.46                             | N/A         | N/A                          | 166         | 173         | Peak              |

Note:

1. "", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dB<sub>B</sub>uV/m) = Reading(dB<sub>B</sub>uV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11a_TX_Band1_CH 149_ANT 0+1                     | Test Voltage         | AC 120V/60Hz  |

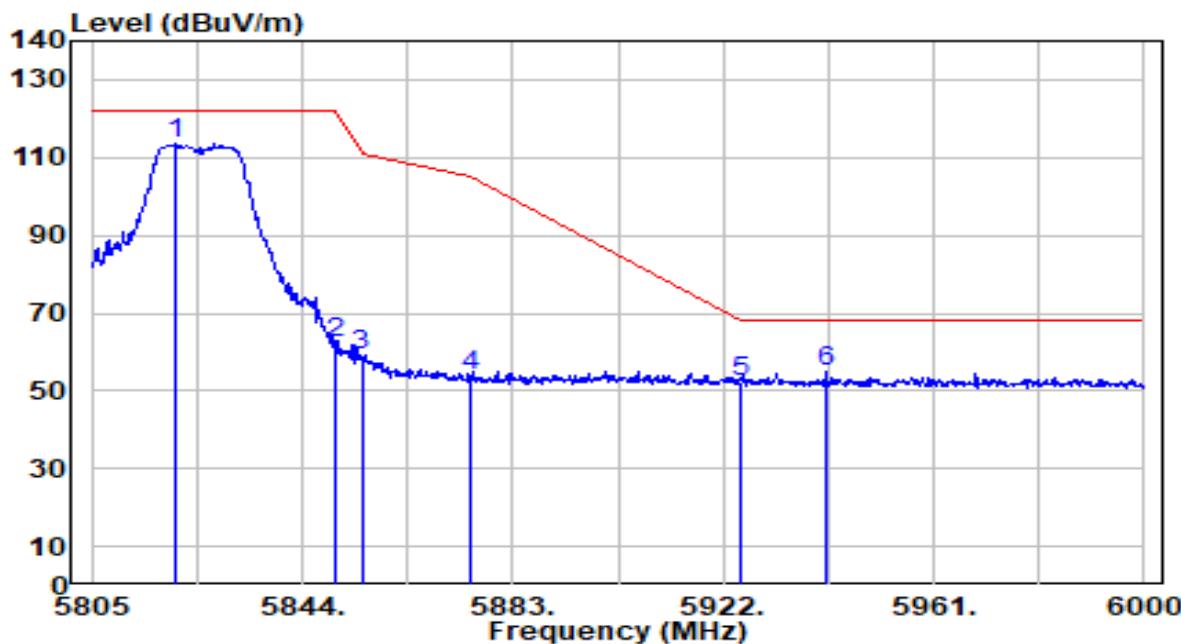


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1 * | 5610.560        | 55.51          | -0.37      | 55.14                | -13.06      | 68.20          | 172         | 180         | Peak              |
| 2   | 5650.000        | 52.57          | -0.16      | 52.41                | -15.79      | 68.20          | 172         | 180         | Peak              |
| 3   | 5700.000        | 52.79          | 0.10       | 52.89                | -52.31      | 105.20         | 172         | 180         | Peak              |
| 4   | 5720.000        | 67.20          | 0.20       | 67.41                | -43.39      | 110.80         | 172         | 180         | Peak              |
| 5   | 5725.000        | 78.60          | 0.23       | 78.82                | -43.38      | 122.20         | 172         | 180         | Peak              |
| 6   | 5750.975        | 109.29         | 0.37       | 109.65               | N/A         | N/A            | 172         | 180         | Peak              |

Note:

1. \*\* means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11a_TX_Band1_CH 165_ANT 0+1                     | Test Voltage         | AC 120V/60Hz  |

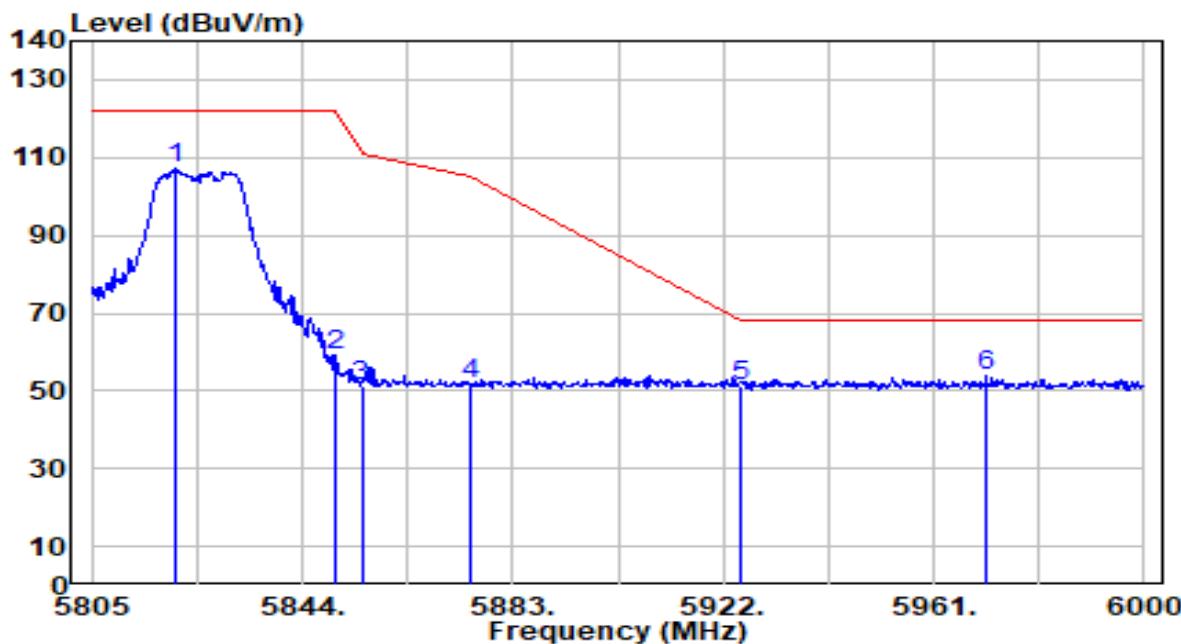


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1   | 5820.405        | 112.98         | 0.61       | 113.59               | N/A         | N/A            | 180         | 177         | Peak              |
| 2   | 5850.000        | 61.84          | 0.58       | 62.42                | -59.78      | 122.20         | 180         | 177         | Peak              |
| 3   | 5855.000        | 58.46          | 0.58       | 59.04                | -51.76      | 110.80         | 180         | 177         | Peak              |
| 4   | 5875.000        | 53.46          | 0.57       | 54.02                | -51.18      | 105.20         | 180         | 177         | Peak              |
| 5   | 5925.000        | 51.69          | 0.53       | 52.22                | -15.98      | 68.20          | 180         | 177         | Peak              |
| 6 * | 5940.915        | 54.27          | 0.51       | 54.79                | -13.41      | 68.20          | 180         | 177         | Peak              |

Note:

1. \*\* means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11a_TX_Band1_CH 165_ANT 0+1                     | Test Voltage         | AC 120V/60Hz  |

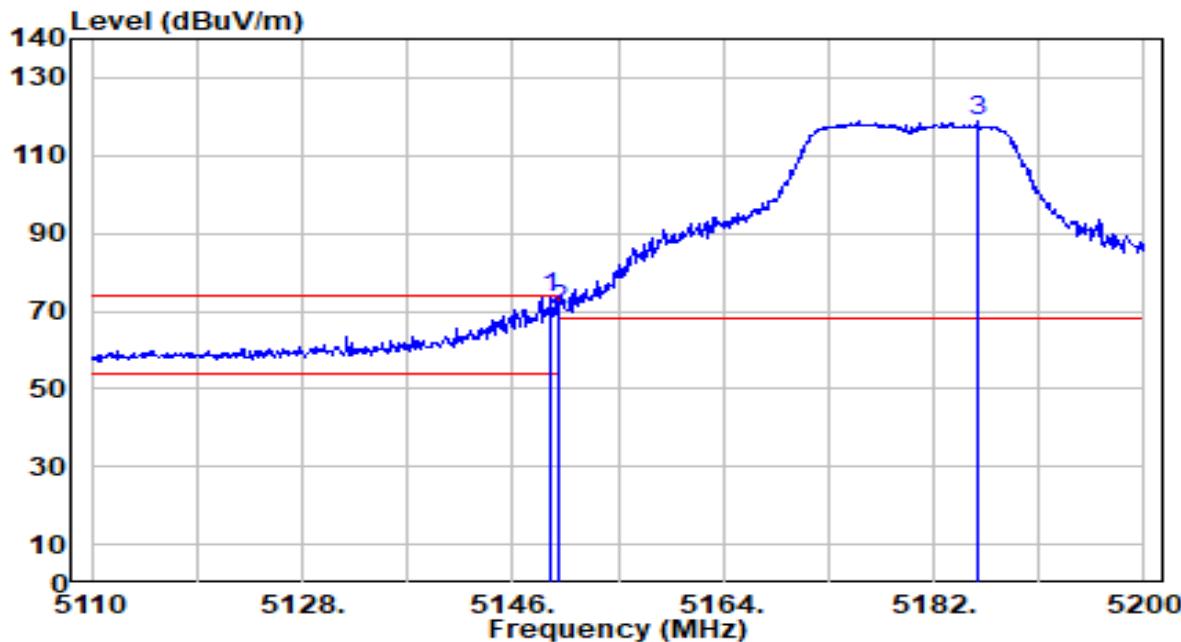


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1   | 5820.405        | 106.41         | 0.61       | 107.02               | N/A         | N/A            | 166         | 180         | Peak              |
| 2   | 5850.000        | 58.36          | 0.58       | 58.94                | -63.26      | 122.20         | 166         | 180         | Peak              |
| 3   | 5855.000        | 50.72          | 0.58       | 51.30                | -59.50      | 110.80         | 166         | 180         | Peak              |
| 4   | 5875.000        | 51.10          | 0.57       | 51.67                | -53.53      | 105.20         | 166         | 180         | Peak              |
| 5   | 5925.000        | 50.87          | 0.53       | 51.40                | -16.80      | 68.20          | 166         | 180         | Peak              |
| 6 * | 5970.750        | 53.19          | 0.49       | 53.68                | -14.52      | 68.20          | 166         | 180         | Peak              |

Note:

1. " \*\*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band1_CH 36_ANT 0+1                | Test Voltage         | AC 120V/60Hz  |

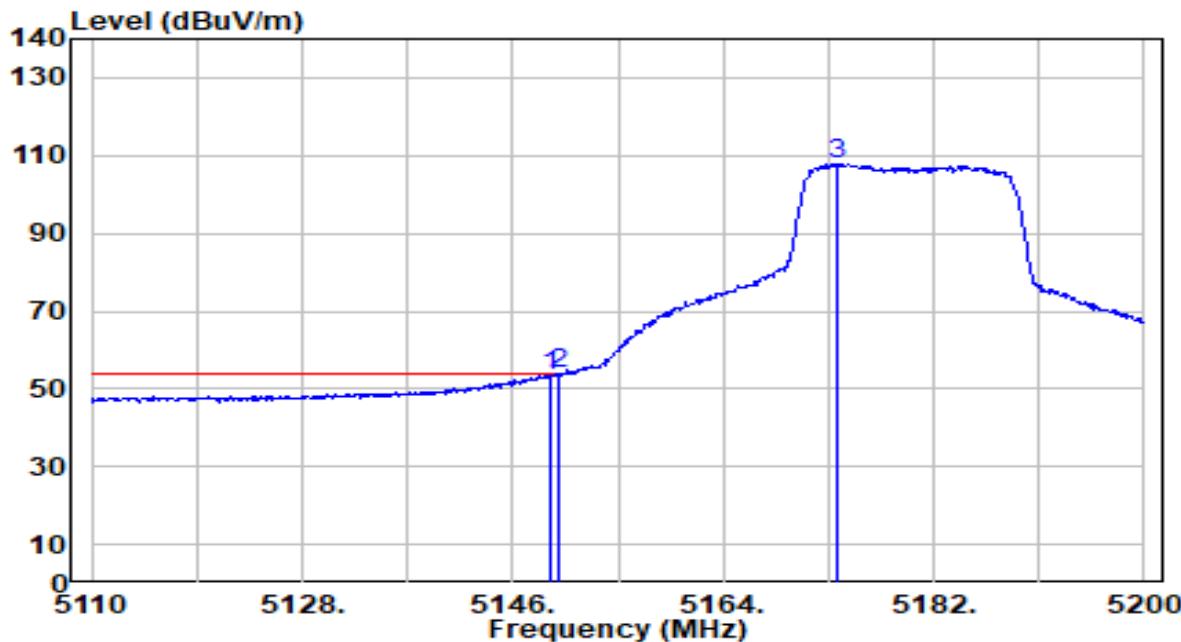


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1 * | 5149.330        | 74.36          | -0.72      | 73.65                | -0.35       | 74.00          | 154         | 180         | Peak              |
| 2   | 5150.000        | 70.85          | -0.72      | 70.13                | -3.87       | 74.00          | 154         | 180         | Peak              |
| 3   | 5185.780        | 119.47         | -0.74      | 118.74               | N/A         | N/A            | 154         | 180         | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band1_CH 36_ANT 0+1                | Test Voltage         | AC 120V/60Hz  |

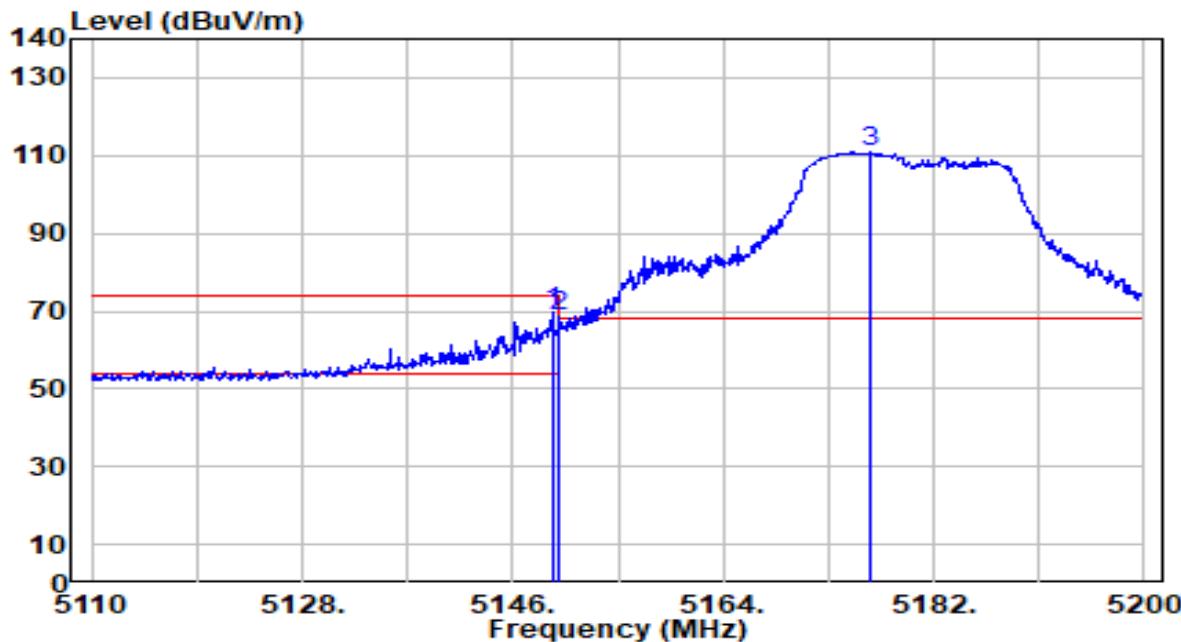


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1   | 5149.330        | 54.17          | -0.72      | 53.45                | -0.55       | 54.00          | 154         | 180         | Average           |
| 2 * | 5150.000        | 54.40          | -0.72      | 53.68                | -0.32       | 54.00          | 154         | 180         | Average           |
| 3   | 5173.810        | 108.67         | -0.73      | 107.94               | N/A         | N/A            | 154         | 180         | Average           |

Note:

1. " \*\*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band1_CH 36_ANT 0+1                | Test Voltage         | AC 120V/60Hz  |

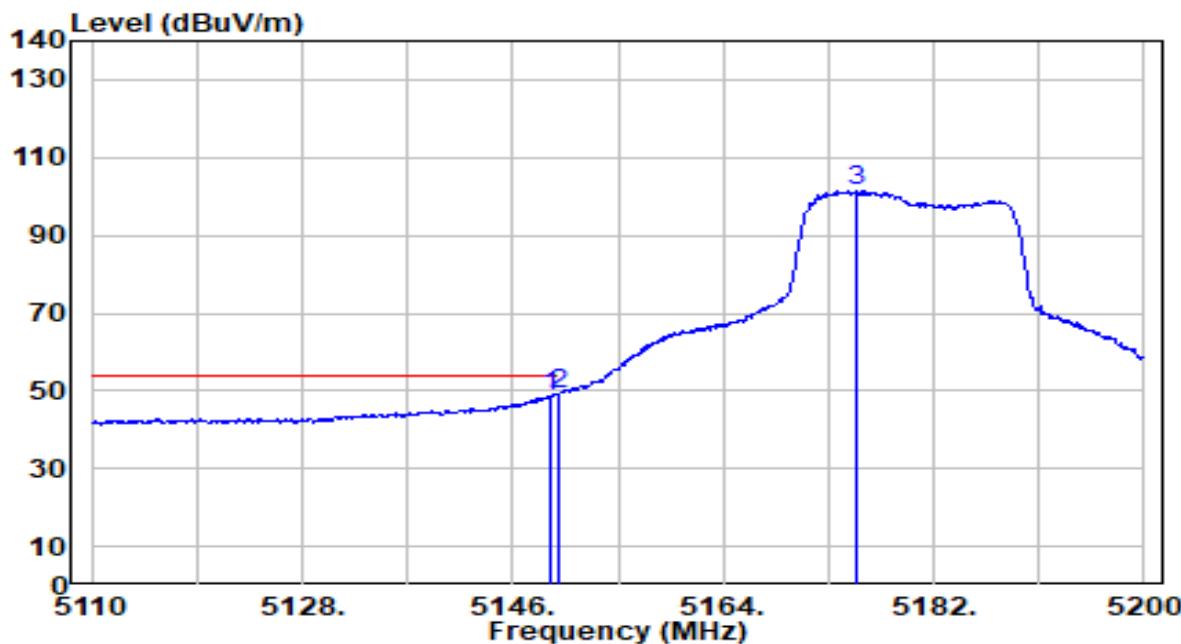


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1 * | 5149.420        | 70.51          | -0.72      | 69.80                | -4.20       | 74.00          | 166         | 180         | Peak              |
| 2   | 5150.000        | 69.31          | -0.72      | 68.59                | -5.41       | 74.00          | 166         | 180         | Peak              |
| 3   | 5176.510        | 111.60         | -0.73      | 110.87               | N/A         | N/A            | 166         | 180         | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band1_CH 36_ANT 0+1                | Test Voltage         | AC 120V/60Hz  |

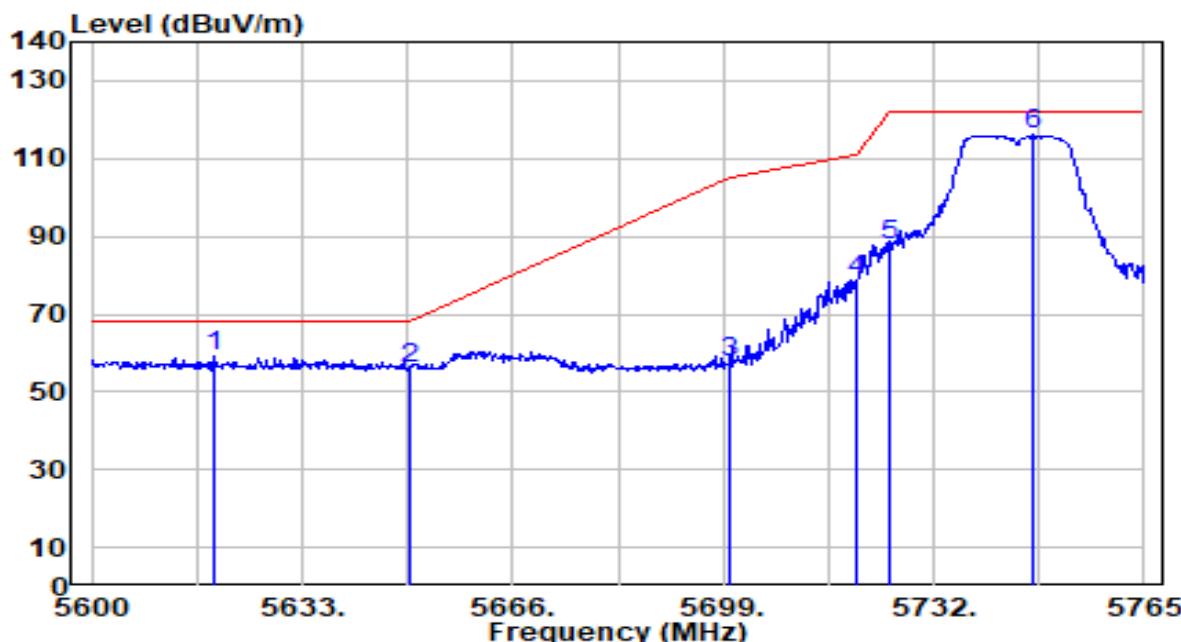


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1   | 5149.330        | 49.49          | -0.72      | 48.77                | -5.23       | 54.00          | 166         | 180         | Average           |
| 2 * | 5150.000        | 50.05          | -0.72      | 49.33                | -4.67       | 54.00          | 166         | 180         | Average           |
| 3   | 5175.340        | 102.09         | -0.73      | 101.36               | N/A         | N/A            | 166         | 180         | Average           |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band1_CH 149_ANT 0+1               | Test Voltage         | AC 120V/60Hz  |

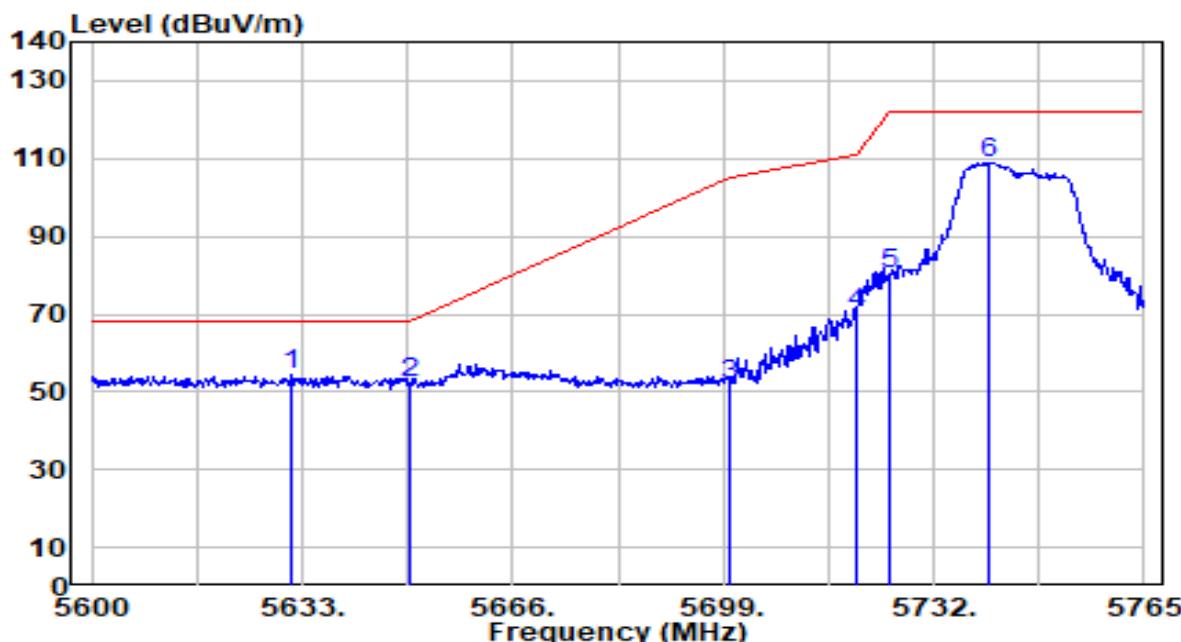


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1 * | 5619.140        | 59.45          | -0.33      | 59.12                | -9.08       | 68.20          | 166         | 173         | Peak              |
| 2   | 5650.000        | 55.94          | -0.16      | 55.77                | -12.43      | 68.20          | 166         | 173         | Peak              |
| 3   | 5700.000        | 57.72          | 0.10       | 57.82                | -47.38      | 105.20         | 166         | 173         | Peak              |
| 4   | 5720.000        | 78.31          | 0.20       | 78.51                | -32.29      | 110.80         | 166         | 173         | Peak              |
| 5   | 5725.000        | 87.55          | 0.23       | 87.78                | -34.42      | 122.20         | 166         | 173         | Peak              |
| 6   | 5747.675        | 115.89         | 0.35       | 116.24               | N/A         | N/A            | 166         | 173         | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band1_CH 149_ANT 0+1               | Test Voltage         | AC 120V/60Hz  |

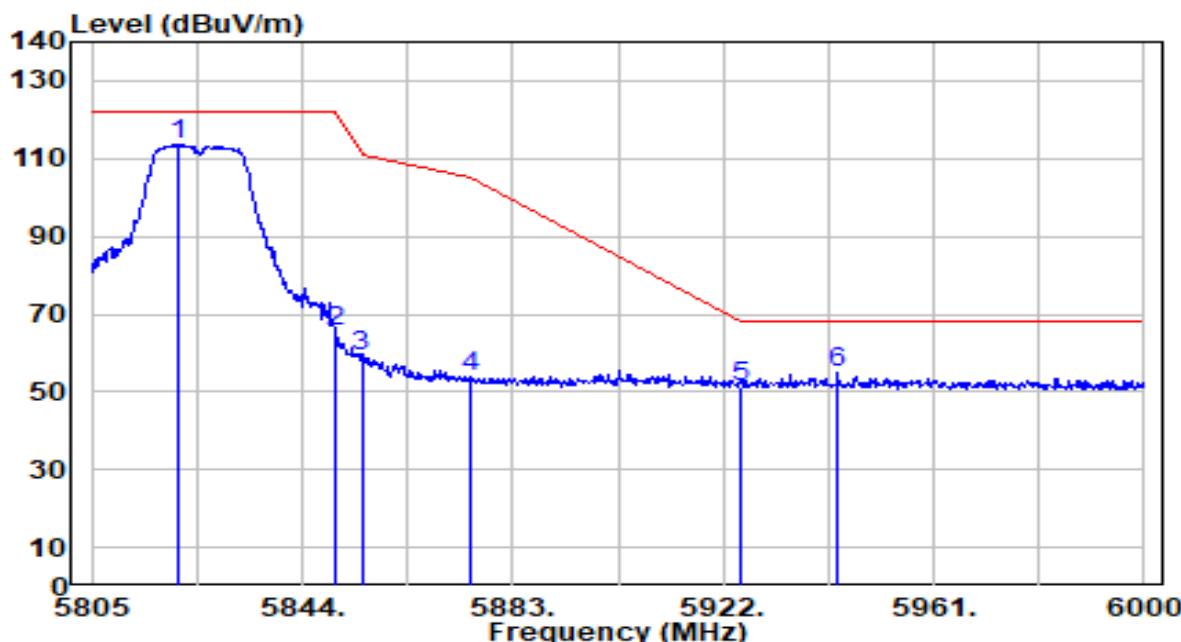


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1 * | 5631.350        | 54.63          | -0.26      | 54.37                | -13.83      | 68.20          | 172         | 180         | Peak              |
| 2   | 5650.000        | 52.42          | -0.16      | 52.26                | -15.94      | 68.20          | 172         | 180         | Peak              |
| 3   | 5700.000        | 51.85          | 0.10       | 51.95                | -53.25      | 105.20         | 172         | 180         | Peak              |
| 4   | 5720.000        | 70.14          | 0.20       | 70.34                | -40.46      | 110.80         | 172         | 180         | Peak              |
| 5   | 5725.000        | 79.88          | 0.23       | 80.11                | -42.09      | 122.20         | 172         | 180         | Peak              |
| 6   | 5740.580        | 108.72         | 0.31       | 109.03               | N/A         | N/A            | 172         | 180         | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band1_CH 165_ANT 0+1               | Test Voltage         | AC 120V/60Hz  |

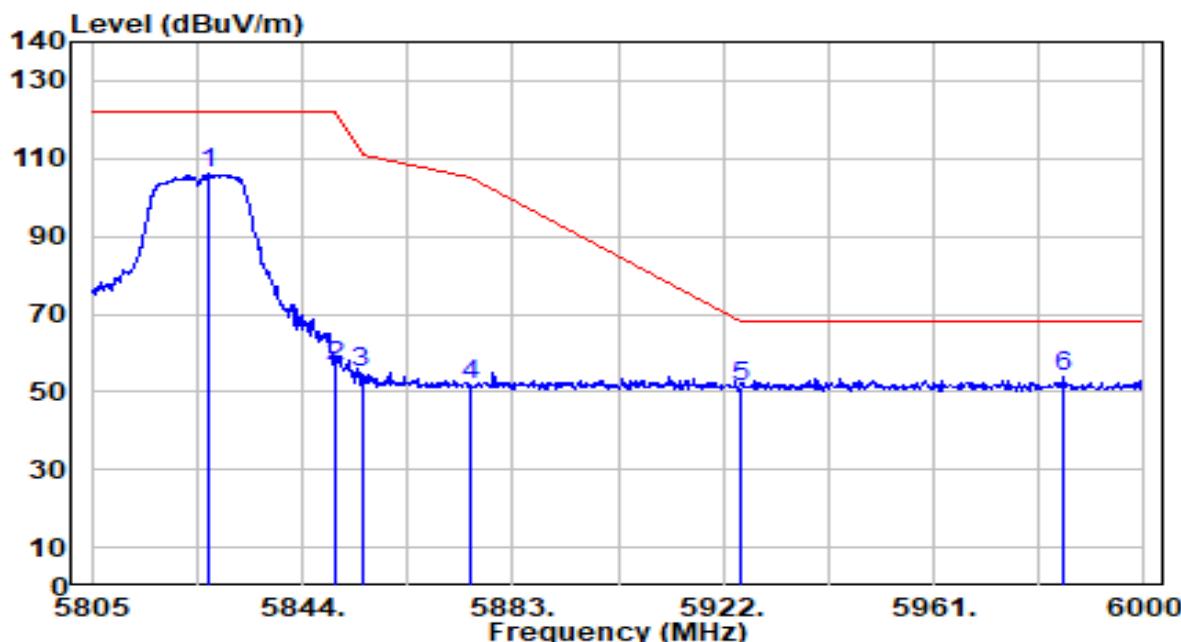


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1   | 5820.795        | 112.97         | 0.61       | 113.58               | N/A         | N/A            | 180         | 177         | Peak              |
| 2   | 5850.000        | 64.76          | 0.58       | 65.34                | -56.86      | 122.20         | 180         | 177         | Peak              |
| 3   | 5855.000        | 58.47          | 0.58       | 59.05                | -51.75      | 110.80         | 180         | 177         | Peak              |
| 4   | 5875.000        | 53.50          | 0.57       | 54.06                | -51.14      | 105.20         | 180         | 177         | Peak              |
| 5   | 5925.000        | 50.61          | 0.53       | 51.14                | -17.06      | 68.20          | 180         | 177         | Peak              |
| 6 * | 5943.060        | 54.39          | 0.51       | 54.91                | -13.29      | 68.20          | 180         | 177         | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-20MHz_TX_Band1_CH 165_ANT 0+1               | Test Voltage         | AC 120V/60Hz  |

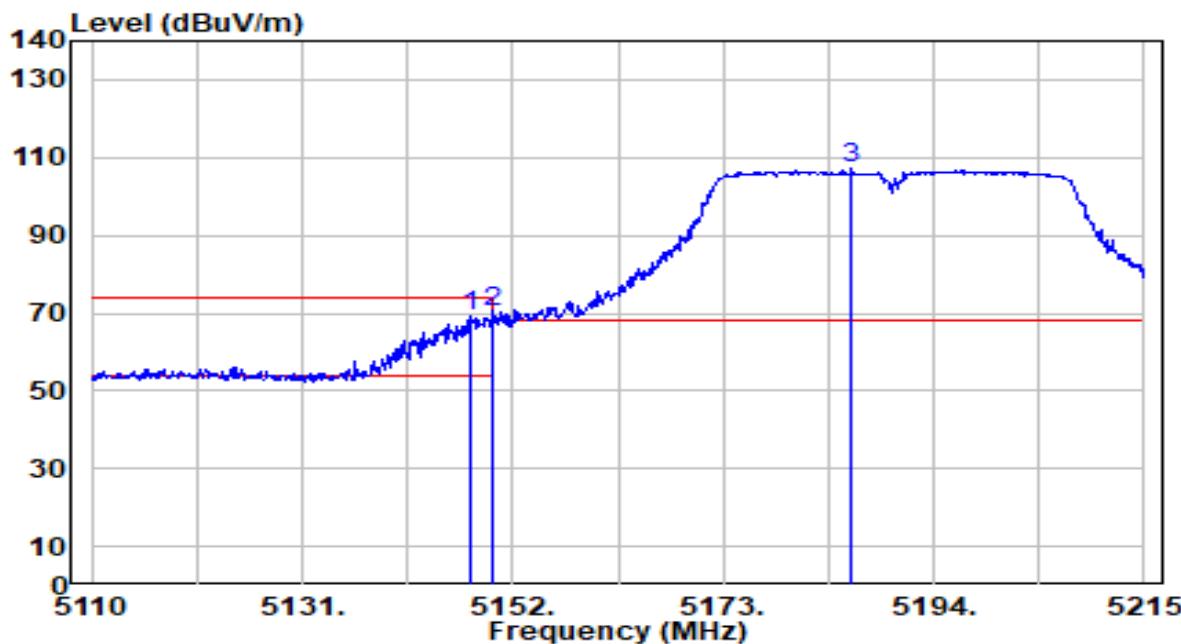


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1   | 5826.450        | 105.64         | 0.60       | 106.24               | N/A         | N/A            | 166         | 180         | Peak              |
| 2   | 5850.000        | 55.82          | 0.58       | 56.40                | -65.80      | 122.20         | 166         | 180         | Peak              |
| 3   | 5855.000        | 54.61          | 0.58       | 55.19                | -55.61      | 110.80         | 166         | 180         | Peak              |
| 4   | 5875.000        | 51.11          | 0.57       | 51.68                | -53.52      | 105.20         | 166         | 180         | Peak              |
| 5   | 5925.000        | 50.91          | 0.53       | 51.44                | -16.76      | 68.20          | 166         | 180         | Peak              |
| 6 * | 5985.180        | 53.40          | 0.48       | 53.88                | -14.32      | 68.20          | 166         | 180         | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-40MHz_TX_Band1_CH 38_ANT 0+1                | Test Voltage         | AC 120V/60Hz  |

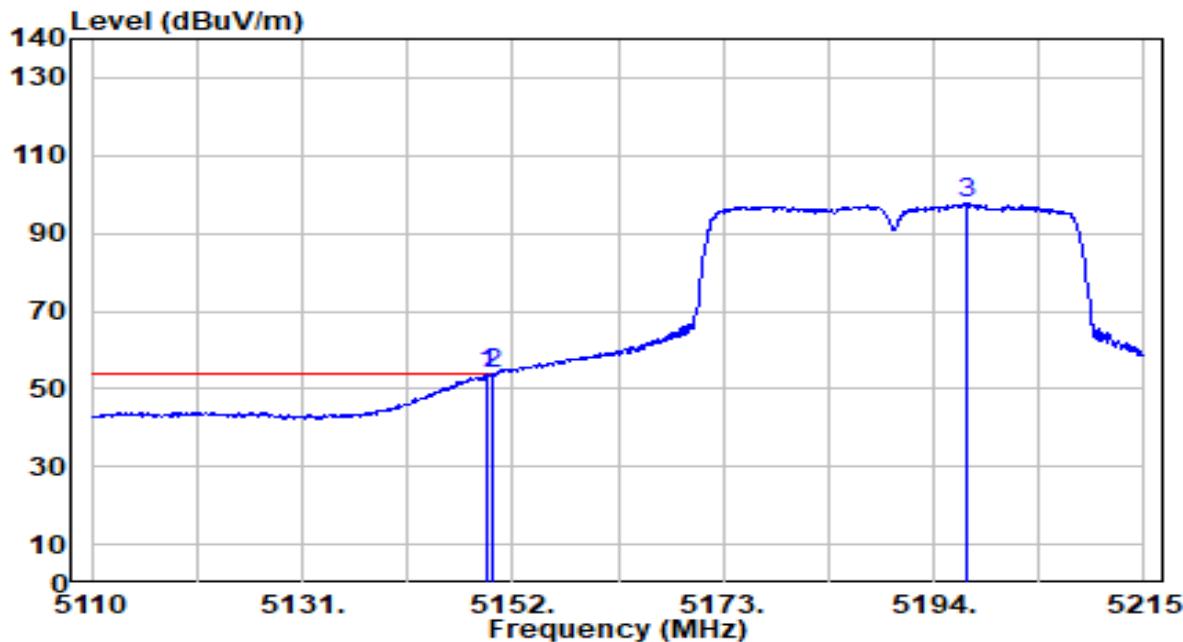


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1   | 5147.695        | 69.72          | -0.72      | 69.01                | -4.99       | 74.00          | 154         | 180         | Peak              |
| 2 * | 5150.000        | 70.86          | -0.72      | 70.15                | -3.85       | 74.00          | 154         | 180         | Peak              |
| 3   | 5185.810        | 108.05         | -0.74      | 107.32               | N/A         | N/A            | 154         | 180         | Peak              |

Note:

1. " \*\*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-40MHz_TX_Band1_CH 38_ANT 0+1                | Test Voltage         | AC 120V/60Hz  |

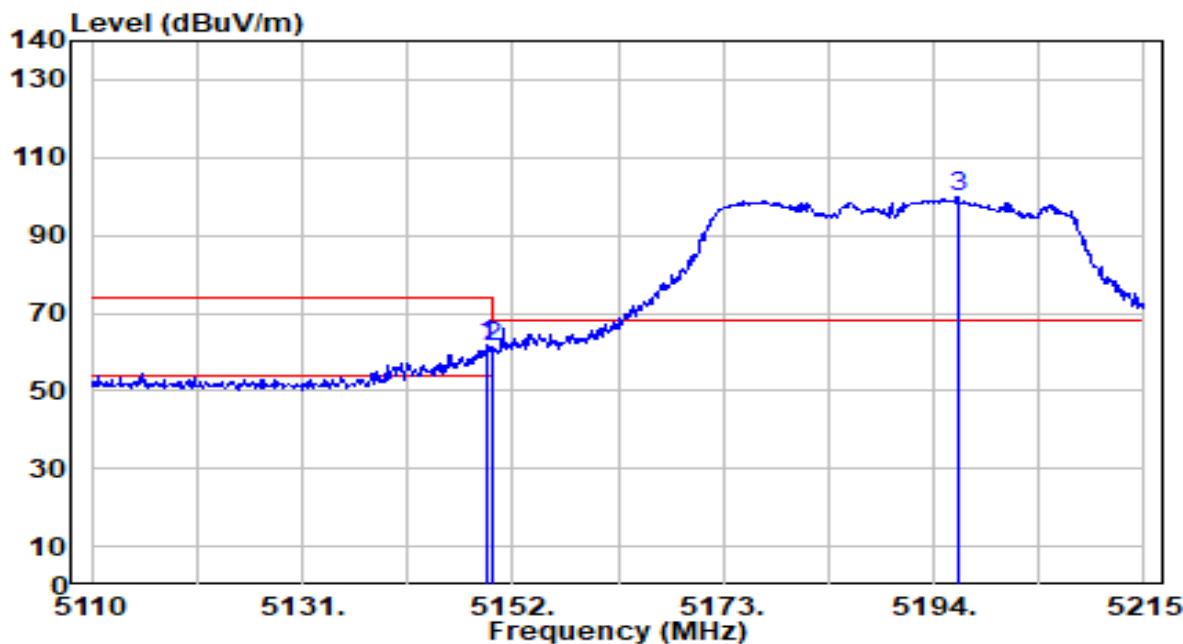


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1 * | 5149.480        | 54.53          | -0.72      | 53.81                | -0.19       | 54.00          | 154         | 180         | Average           |
| 2   | 5150.000        | 54.45          | -0.72      | 53.73                | -0.27       | 54.00          | 154         | 180         | Average           |
| 3   | 5197.360        | 98.28          | -0.74      | 97.54                | N/A         | N/A            | 154         | 180         | Average           |

Note:

1. " \*\*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-40MHz_TX_Band1_CH 38_ANT 0+1                | Test Voltage         | AC 120V/60Hz  |

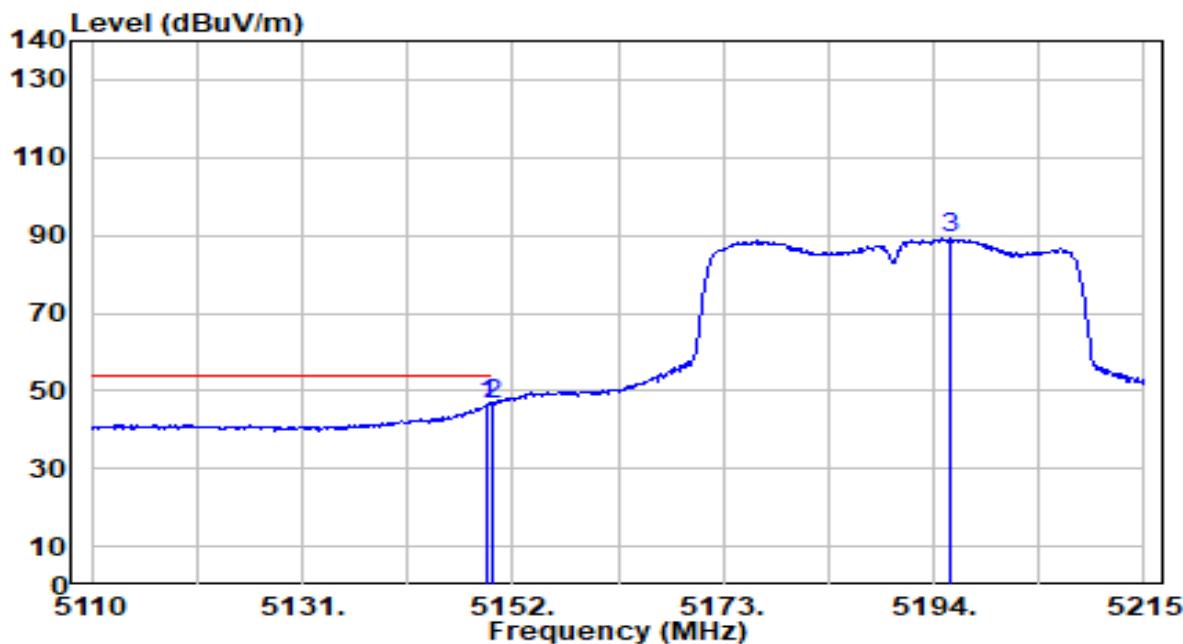


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1 * | 5149.480        | 62.73          | -0.72      | 62.02                | -11.98      | 74.00          | 166         | 180         | Peak              |
| 2   | 5150.000        | 61.77          | -0.72      | 61.05                | -12.95      | 74.00          | 166         | 180         | Peak              |
| 3   | 5196.415        | 100.46         | -0.74      | 99.72                | N/A         | N/A            | 166         | 180         | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-40MHz_TX_Band1_CH 38_ANT 0+1                | Test Voltage         | AC 120V/60Hz  |

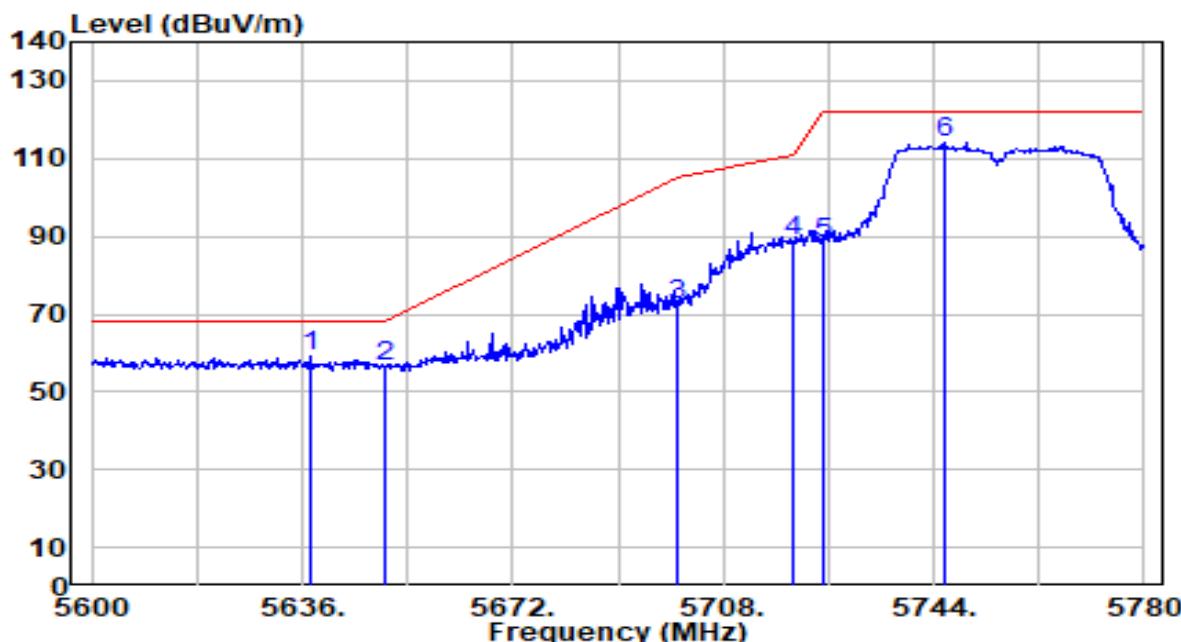


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1   | 5149.375        | 47.16          | -0.72      | 46.44                | -7.56       | 54.00          | 166         | 180         | Average           |
| 2 * | 5150.000        | 47.31          | -0.72      | 46.60                | -7.40       | 54.00          | 166         | 180         | Average           |
| 3   | 5195.680        | 89.89          | -0.74      | 89.15                | N/A         | N/A            | 166         | 180         | Average           |

Note:

1. " \*\*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-40MHz_TX_Band1_CH 151_ANT 0+1               | Test Voltage         | AC 120V/60Hz  |

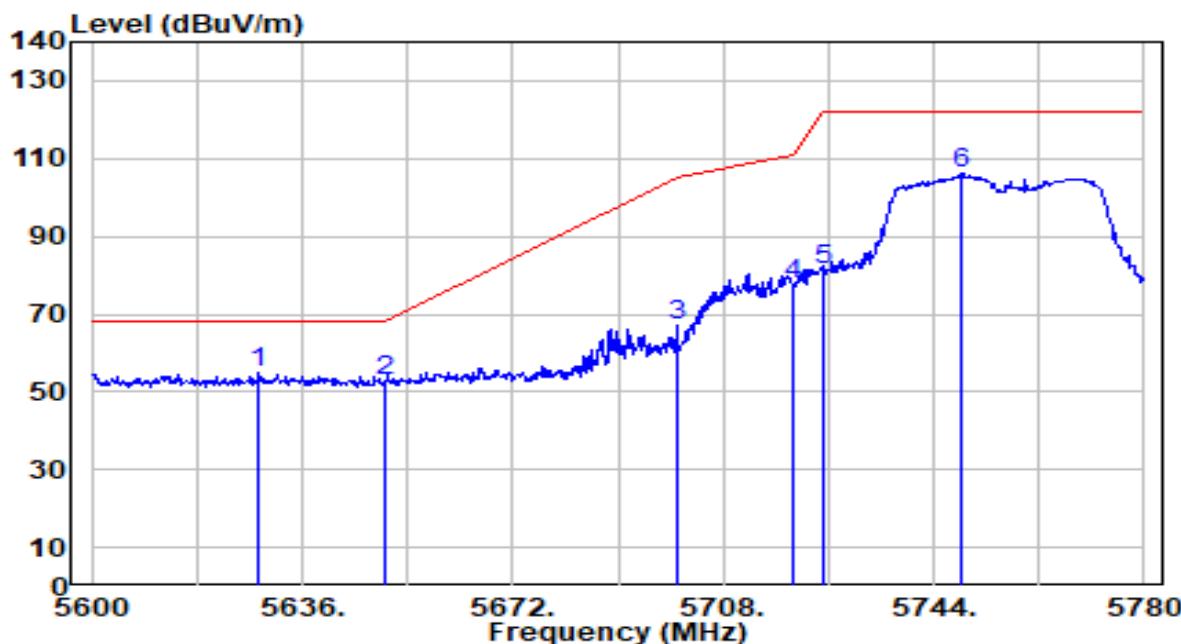


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1 * | 5637.260        | 59.18          | -0.23      | 58.95                | -9.25       | 68.20          | 166         | 173         | Peak              |
| 2   | 5650.000        | 56.63          | -0.16      | 56.46                | -11.74      | 68.20          | 166         | 173         | Peak              |
| 3   | 5700.000        | 72.46          | 0.10       | 72.56                | -32.64      | 105.20         | 166         | 173         | Peak              |
| 4   | 5720.000        | 88.43          | 0.20       | 88.64                | -22.16      | 110.80         | 166         | 173         | Peak              |
| 5   | 5725.000        | 88.24          | 0.23       | 88.46                | -33.74      | 122.20         | 166         | 173         | Peak              |
| 6   | 5745.980        | 113.97         | 0.34       | 114.31               | N/A         | N/A            | 166         | 173         | Peak              |

Note:

1. "", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-40MHz_TX_Band1_CH 151_ANT 0+1               | Test Voltage         | AC 120V/60Hz  |

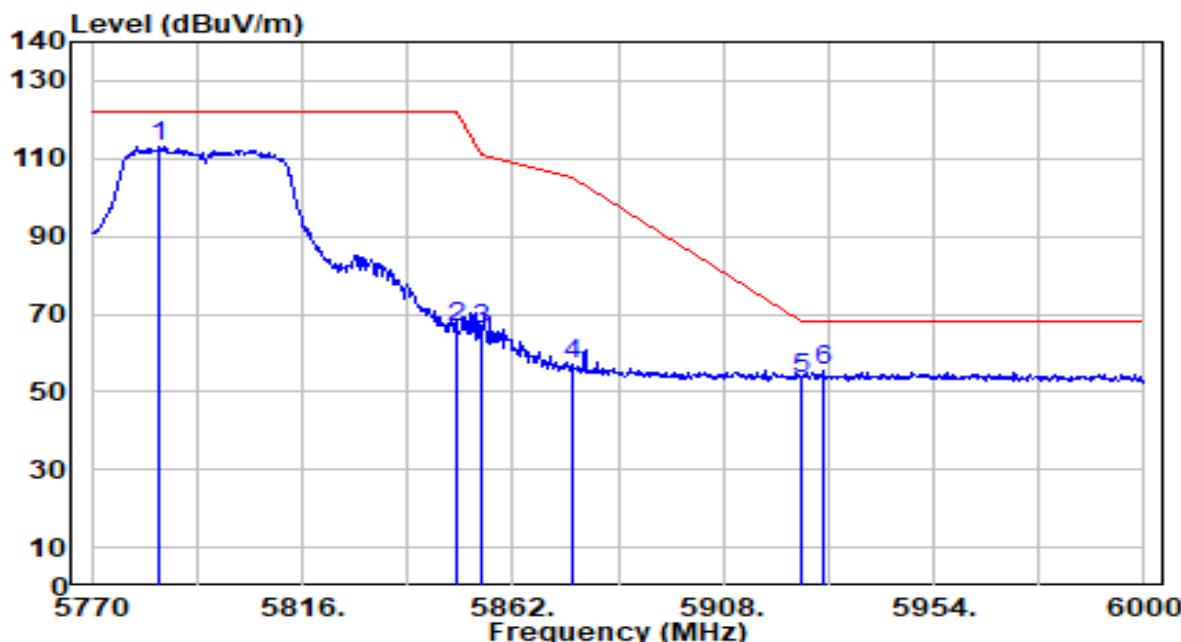


| No  | Frequency (MHz) | Reading (dB <sub>B</sub> V) | C.F (dB/m) | Measurement (dB <sub>B</sub> V/m) | Margin (dB) | Limit (dB <sub>B</sub> V/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|-----------------------------|------------|-----------------------------------|-------------|-----------------------------|-------------|-------------|-------------------|
| 1 * | 5628.620        | 55.18                       | -0.28      | 54.90                             | -13.30      | 68.20                       | 172         | 180         | Peak              |
| 2   | 5650.000        | 52.76                       | -0.16      | 52.60                             | -15.60      | 68.20                       | 172         | 180         | Peak              |
| 3   | 5700.000        | 66.83                       | 0.10       | 66.93                             | -38.27      | 105.20                      | 172         | 180         | Peak              |
| 4   | 5720.000        | 77.70                       | 0.20       | 77.90                             | -32.90      | 110.80                      | 172         | 180         | Peak              |
| 5   | 5725.000        | 81.12                       | 0.23       | 81.35                             | -40.85      | 122.20                      | 172         | 180         | Peak              |
| 6   | 5748.860        | 105.88                      | 0.35       | 106.23                            | N/A         | N/A                         | 172         | 180         | Peak              |

Note:

1. "", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dB<sub>B</sub>V/m) = Reading(dB<sub>B</sub>V) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Horizontal  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-40MHz_TX_Band1_CH 159_ANT 0+1               | Test Voltage         | AC 120V/60Hz  |

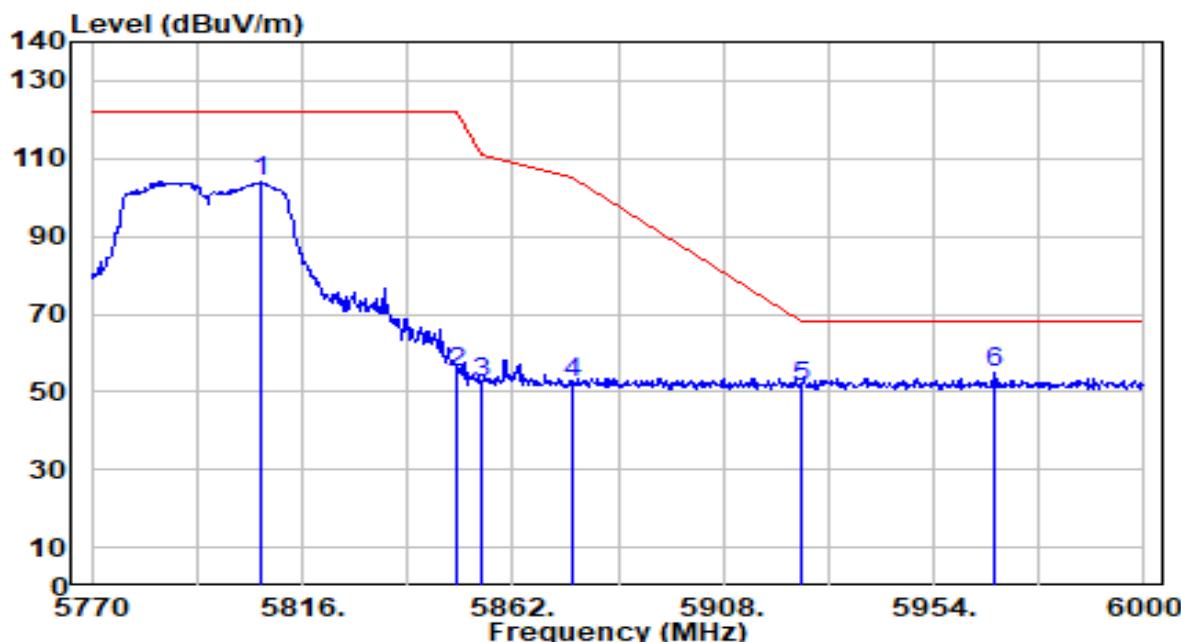


| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1   | 5784.720        | 112.47         | 0.54       | 113.01               | N/A         | N/A            | 180         | 177         | Peak              |
| 2   | 5850.000        | 66.16          | 0.58       | 66.75                | -55.45      | 122.20         | 180         | 177         | Peak              |
| 3   | 5855.000        | 65.28          | 0.58       | 65.86                | -44.94      | 110.80         | 180         | 177         | Peak              |
| 4   | 5875.000        | 56.74          | 0.57       | 57.31                | -47.89      | 105.20         | 180         | 177         | Peak              |
| 5   | 5925.000        | 52.89          | 0.53       | 53.41                | -14.79      | 68.20          | 180         | 177         | Peak              |
| 6 * | 5930.080        | 54.88          | 0.52       | 55.40                | -12.80      | 68.20          | 180         | 177         | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

|           |   |                      |               |
|-----------|---|----------------------|---------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-13    |
| Factor    | DRH18-E   | Temp. / Humidity     | 22°C /61%     |
| Polarity  | Vertical  | Site / Test Engineer | AC2 / Stanley |
| Test Mode | 802.11n-40MHz_TX_Band1_CH 159_ANT 0+1               | Test Voltage         | AC 120V/60Hz  |



| No  | Frequency (MHz) | Reading (dBuV) | C.F (dB/m) | Measurement (dBuV/m) | Margin (dB) | Limit (dBuV/m) | Height (cm) | Angle (deg) | Remark (QP/PK/AV) |
|-----|-----------------|----------------|------------|----------------------|-------------|----------------|-------------|-------------|-------------------|
| 1   | 5806.800        | 103.44         | 0.62       | 104.05               | N/A         | N/A            | 166         | 180         | Peak              |
| 2   | 5850.000        | 54.11          | 0.58       | 54.70                | -67.50      | 122.20         | 166         | 180         | Peak              |
| 3   | 5855.000        | 51.68          | 0.58       | 52.26                | -58.54      | 110.80         | 166         | 180         | Peak              |
| 4   | 5875.000        | 51.95          | 0.57       | 52.52                | -52.68      | 105.20         | 166         | 180         | Peak              |
| 5   | 5925.000        | 50.74          | 0.53       | 51.27                | -16.93      | 68.20          | 166         | 180         | Peak              |
| 6 * | 5967.340        | 54.23          | 0.49       | 54.72                | -13.48      | 68.20          | 166         | 180         | Peak              |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 10dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

## 7.9. AC Conducted Emissions Measurement

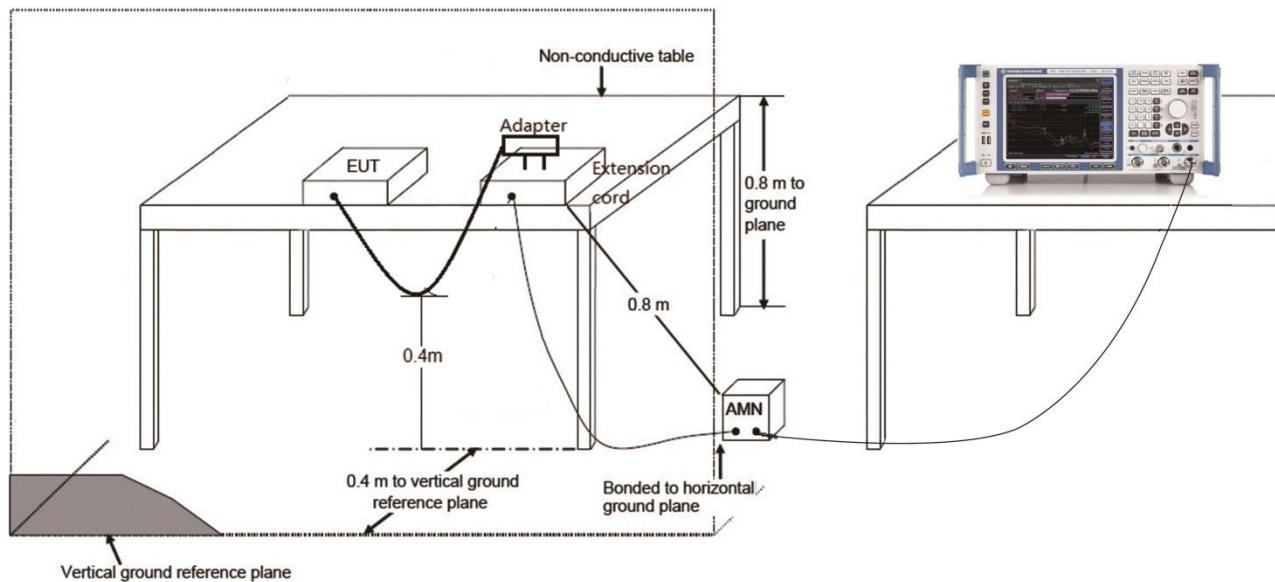
### 7.9.1. Test Limit

| FCC Part 15.207 Limits |                 |                 |
|------------------------|-----------------|-----------------|
| Frequency (MHz)        | QP (dB $\mu$ V) | AV (dB $\mu$ V) |
| 0.15 - 0.50            | 66 - 56         | 56 - 46         |
| 0.50 - 5.0             | 56              | 46              |
| 5.0 - 30               | 60              | 50              |

Note 1: The lower limit shall apply at the transition frequencies.

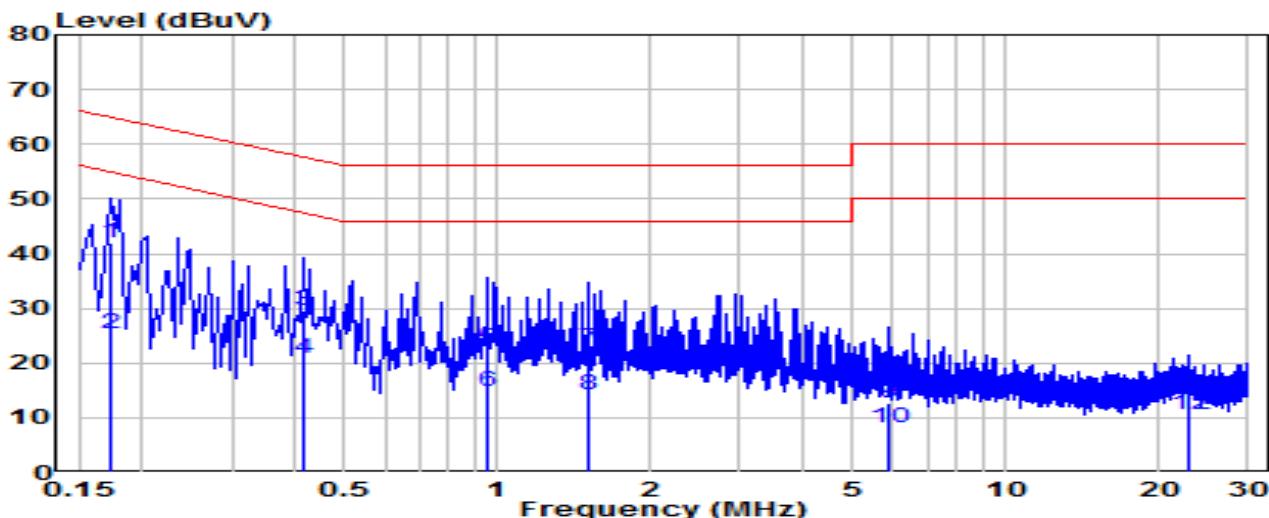
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

### 7.9.2. Test Setup



### 7.9.3. Test Result

|           |   |                      |              |
|-----------|---|----------------------|--------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-22   |
| Factor    | CE_ENV216-L1 (Filter ON)                            | Temp. / Humidity     | 23.1°C /46%  |
| Polarity  | Line1   | Site / Test Engineer | SR2 / Bob    |
| Test Mode | 802.11ac-20MHz_TX_Band1_CH 44_ANT 0+1               | Test Voltage         | AC 120V/60Hz |

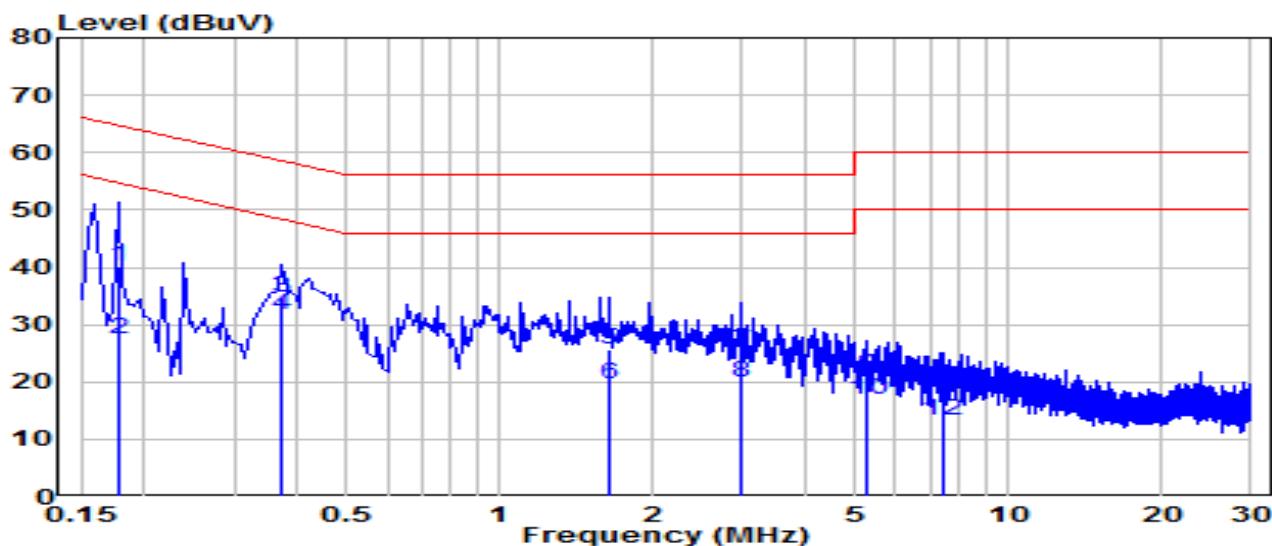


| No | Frequency (MHz) | Reading (dBuV) | C.F (dB) | Measurement (dBuV) | Margin (dB) | Limit (dBuV) | Remark (QP/PK/AV) |
|----|-----------------|----------------|----------|--------------------|-------------|--------------|-------------------|
| 1  | * 0.172         | 32.44          | 9.62     | 42.07              | -22.77      | 64.84        | QP                |
| 2  | * 0.172         | 15.74          | 9.62     | 25.36              | -29.48      | 54.84        | Average           |
| 3  | 0.415           | 19.93          | 9.64     | 29.57              | -27.97      | 57.54        | QP                |
| 4  | 0.415           | 11.14          | 9.64     | 20.78              | -26.76      | 47.54        | Average           |
| 5  | 0.955           | 12.84          | 9.67     | 22.51              | -33.49      | 56.00        | QP                |
| 6  | 0.955           | 5.15           | 9.67     | 14.81              | -31.19      | 46.00        | Average           |
| 7  | 1.504           | 12.96          | 9.68     | 22.64              | -33.36      | 56.00        | QP                |
| 8  | 1.504           | 4.38           | 9.68     | 14.06              | -31.94      | 46.00        | Average           |
| 9  | 5.855           | 2.93           | 9.76     | 12.70              | -47.30      | 60.00        | QP                |
| 10 | 5.855           | -1.54          | 9.76     | 8.22               | -41.78      | 50.00        | Average           |
| 11 | 23.066          | 3.34           | 9.92     | 13.26              | -46.74      | 60.00        | QP                |
| 12 | 23.066          | 0.66           | 9.92     | 10.58              | -39.42      | 50.00        | Average           |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

|           |   |                      |              |
|-----------|---|----------------------|--------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-22   |
| Factor    | CE_ENV216-N (Filter ON)                             | Temp. / Humidity     | 23.1°C /46%  |
| Polarity  | Neutral   | Site / Test Engineer | SR2 / Bob    |
| Test Mode | 802.11ac-20MHz_TX_Band1_CH 44_ANT 0+1               | Test Voltage         | AC 120V/60Hz |

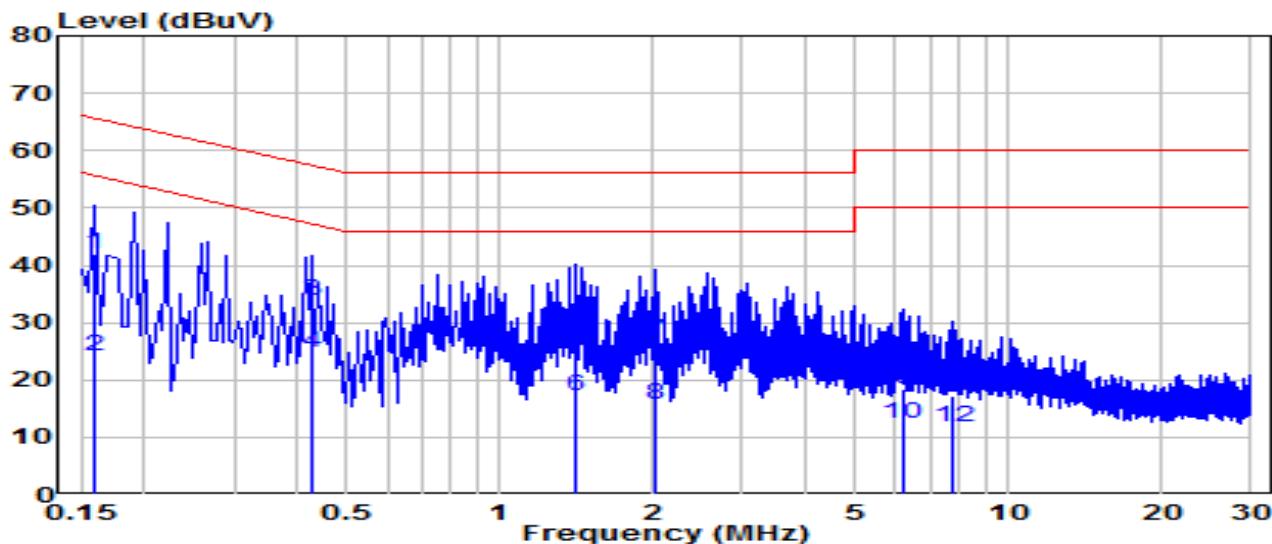


| No | Frequency (MHz) | Reading (dBuV) | C.F (dB) | Measurement (dBuV) | Margin (dB) | Limit (dBuV) | Remark (QP/PK/AV) |
|----|-----------------|----------------|----------|--------------------|-------------|--------------|-------------------|
| 1  | 0.177           | 30.63          | 9.62     | 40.25              | -24.37      | 64.63        | QP                |
| 2  | 0.177           | 17.89          | 9.62     | 27.51              | -27.11      | 54.63        | Average           |
| 3  | * 0.370         | 25.02          | 9.63     | 34.65              | -23.84      | 58.49        | QP                |
| 4  | * 0.370         | 22.04          | 9.63     | 31.67              | -16.82      | 48.49        | Average           |
| 5  | 1.644           | 16.06          | 9.68     | 25.74              | -30.26      | 56.00        | QP                |
| 6  | 1.644           | 9.95           | 9.68     | 19.63              | -26.37      | 46.00        | Average           |
| 7  | 2.985           | 15.65          | 9.71     | 25.36              | -30.64      | 56.00        | QP                |
| 8  | 2.985           | 10.31          | 9.71     | 20.02              | -25.98      | 46.00        | Average           |
| 9  | 5.284           | 11.37          | 9.75     | 21.12              | -38.88      | 60.00        | QP                |
| 10 | 5.284           | 7.03           | 9.75     | 16.79              | -33.21      | 50.00        | Average           |
| 11 | 7.399           | 8.39           | 9.81     | 18.20              | -41.80      | 60.00        | QP                |
| 12 | 7.399           | 3.49           | 9.81     | 13.29              | -36.71      | 50.00        | Average           |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

|           |   |                      |              |
|-----------|---|----------------------|--------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-22   |
| Factor    | CE_ENV216-L1 (Filter ON)                            | Temp. / Humidity     | 23.1°C /46%  |
| Polarity  | Line1   | Site / Test Engineer | SR2 / Bob    |
| Test Mode | 802.11ac-20MHz_TX_Band1_CH 44_ANT 0+1               | Test Voltage         | AC 240V/60Hz |

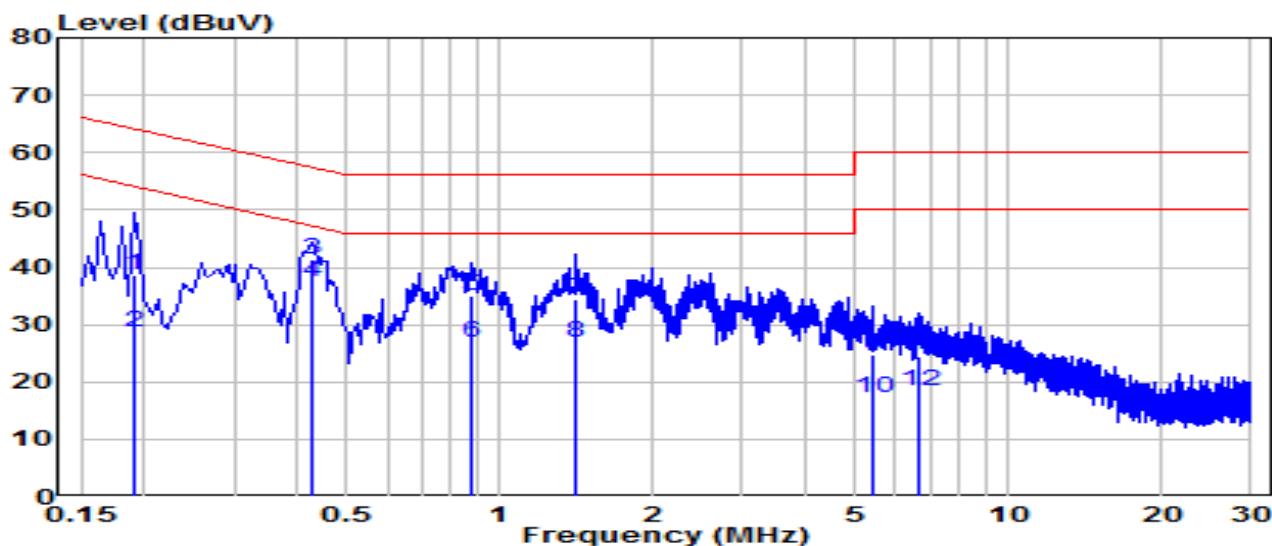


| No | Frequency (MHz) | Reading (dBuV) | C.F (dB) | Measurement (dBuV) | Margin (dB) | Limit (dBuV) | Remark (QP/PK/AV) |
|----|-----------------|----------------|----------|--------------------|-------------|--------------|-------------------|
| 1  | 0.159           | 32.22          | 9.62     | 41.84              | -23.68      | 65.52        | QP                |
| 2  | 0.159           | 14.57          | 9.62     | 24.19              | -31.33      | 55.52        | Average           |
| 3  | * 0.424         | 24.29          | 9.64     | 33.92              | -23.44      | 57.36        | QP                |
| 4  | * 0.424         | 15.25          | 9.64     | 24.89              | -22.47      | 47.36        | Average           |
| 5  | 1.410           | 19.90          | 9.68     | 29.58              | -26.42      | 56.00        | QP                |
| 6  | 1.410           | 7.49           | 9.68     | 17.17              | -28.83      | 46.00        | Average           |
| 7  | 2.008           | 17.26          | 9.69     | 26.95              | -29.05      | 56.00        | QP                |
| 8  | 2.008           | 5.87           | 9.69     | 15.56              | -30.44      | 46.00        | Average           |
| 9  | 6.184           | 8.66           | 9.77     | 18.44              | -41.56      | 60.00        | QP                |
| 10 | 6.184           | 2.59           | 9.77     | 12.36              | -37.64      | 50.00        | Average           |
| 11 | 7.781           | 7.51           | 9.81     | 17.31              | -42.69      | 60.00        | QP                |
| 12 | 7.781           | 2.08           | 9.81     | 11.89              | -38.11      | 50.00        | Average           |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

|           |   |                      |              |
|-----------|---|----------------------|--------------|
| EUT       | 5GHz 300Mbps Long-range Indoor/Outdoor Access Point | Date of Test         | 2023-11-22   |
| Factor    | CE_ENV216-N (Filter ON)                             | Temp. / Humidity     | 23.1°C /46%  |
| Polarity  | Neutral   | Site / Test Engineer | SR2 / Bob    |
| Test Mode | 802.11ac-20MHz_TX_Band1_CH 44_ANT 0+1               | Test Voltage         | AC 240V/60Hz |



| No | Frequency (MHz) | Reading (dBuV) | C.F (dB) | Measurement (dBuV) | Margin (dB) | Limit (dBuV) | Remark (QP/PK/AV) |
|----|-----------------|----------------|----------|--------------------|-------------|--------------|-------------------|
| 1  | 0.190           | 29.15          | 9.62     | 38.77              | -25.25      | 64.01        | QP                |
| 2  | 0.190           | 18.94          | 9.62     | 28.57              | -25.45      | 54.01        | Average           |
| 3  | * 0.424         | 31.80          | 9.64     | 41.43              | -15.93      | 57.36        | QP                |
| 4  | * 0.424         | 27.68          | 9.64     | 37.31              | -10.05      | 47.36        | Average           |
| 5  | 0.883           | 25.33          | 9.66     | 35.00              | -21.00      | 56.00        | QP                |
| 6  | 0.883           | 17.32          | 9.66     | 26.98              | -19.02      | 46.00        | Average           |
| 7  | 1.410           | 24.66          | 9.68     | 34.34              | -21.66      | 56.00        | QP                |
| 8  | 1.410           | 17.20          | 9.68     | 26.88              | -19.12      | 46.00        | Average           |
| 9  | 5.414           | 14.95          | 9.76     | 24.71              | -35.29      | 60.00        | QP                |
| 10 | 5.414           | 7.55           | 9.76     | 17.30              | -32.70      | 50.00        | Average           |
| 11 | 6.706           | 14.73          | 9.79     | 24.51              | -35.49      | 60.00        | QP                |
| 12 | 6.706           | 8.56           | 9.79     | 18.35              | -31.65      | 50.00        | Average           |

Note:

1. " \* ", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

## 8. CONCLUSION

The data collected relate only the item(s) tested and show that the device is in compliance with Part 15E of the FCC Rules.

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## **Appendix A : Test Setup Photograph**

Refer to “2311TW0104-UT” file.

## **Appendix B : EUT Photograph**

Refer to “2311TW0104-UE” file.

## **Appendix C : Internal Photograph**

Refer to “2311TW0104-UI” file.

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The End

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