



# TEST REPORT

**Applicant:** HANSHOW PTE.LTD.

**Address of Applicant:** 138 ROBINSON ROAD#02-33OXLEY TOWER  
SINGAPORE(068906)

**Manufacturer:** HANSHOW PTE.LTD.

**Address of Manufacturer:** 138 ROBINSON ROAD#02-33OXLEY TOWER  
SINGAPORE(068906)

**Equipment Under Test (EUT)**

Product Name: electronic shelf label

Model No.: Nebular Plus-266Q-N

**FCC ID:** 2BPF3-NP-266Q

**Applicable standards:** FCC CFR Title 47 Part 15 Subpart C Section 15.249

**Date of sample receipt:** July 21, 2025

**Date of Test:** July 22, 2025-August 19, 2025

**Date of report issued:** August 19, 2025

**Test Result :** PASS \*

\* In the configuration tested, the EUT complied with the standards specified above.

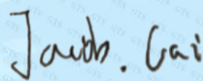
Authorized Signature:

Robinson Luo  
Laboratory Manager

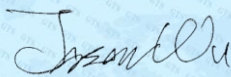
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**2 Version**

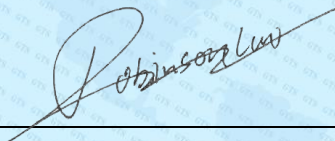
| Version No. | Date            | Description |
|-------------|-----------------|-------------|
| 00          | August 19, 2025 | Original    |
|             |                 |             |
|             |                 |             |
|             |                 |             |

**Tested By:****Date:**

August 19, 2025

**Test Engineer****Prepared By:****Date:**

August 19, 2025

**Project Engineer****Check By:****Date:**

August 19, 2025

**Reviewer**

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## 4 Test Summary

| Test Item                                | Section in CFR 47     | Result |
|------------------------------------------|-----------------------|--------|
| Antenna requirement                      | 15.203                | Pass   |
| AC Power Line Conducted Emission         | 15.207                | N/A    |
| Field strength of the fundamental signal | 15.249 (a)            | Pass   |
| Spurious emissions                       | 15.249 (a) (d)/15.209 | Pass   |
| Band edge                                | 15.249 (d)/15.205     | Pass   |
| 20dB Occupied Bandwidth                  | 15.215 (c)            | Pass   |

Remarks:

1. Test according to ANSI C63.10:2013.
2. Pass: The EUT complies with the essential requirements in the standard.
3. N/A: not applicable

### 4.1 Measurement Uncertainty

| No. | Item                             | Measurement Uncertainty               |
|-----|----------------------------------|---------------------------------------|
| 1   | Radio Frequency                  | $\pm 7.25 \times 10^{-8}$             |
| 2   | Duty cycle                       | $\pm 0.37\%$                          |
| 3   | Occupied Bandwidth               | $\pm 3\%$                             |
| 4   | RF conducted power               | $\pm 0.75\text{dB}$                   |
| 5   | RF power density                 | $\pm 3\text{dB}$                      |
| 6   | Conducted Spurious emissions     | $\pm 2.58\text{dB}$                   |
| 7   | AC Power Line Conducted Emission | $\pm 3.44\text{dB}$ (0.15MHz ~ 30MHz) |
| 8   | Radiated Spurious emission test  | $\pm 3.1\text{dB}$ (9kHz-30MHz)       |
|     |                                  | $\pm 3.8039\text{dB}$ (30MHz-200MHz)  |
|     |                                  | $\pm 3.9679\text{dB}$ (200MHz-1GHz)   |
|     |                                  | $\pm 4.29\text{dB}$ (1GHz-18GHz)      |
|     |                                  | $\pm 3.30\text{dB}$ (18GHz-40GHz)     |
| 9   | Temperature test                 | $\pm 1^\circ\text{C}$                 |
| 10  | Humidity test                    | $\pm 3\%$                             |
| 11  | Time                             | $\pm 3\%$                             |

## 5 General Information

### 5.1 General Description of EUT

|                        |                                                  |
|------------------------|--------------------------------------------------|
| Product Name:          | electronic shelf label                           |
| Model No.:             | Nebular Plus-266Q-N                              |
| Serial No.:            | 088206535022429576                               |
| Test sample(s) ID:     | GTS2025070390-1                                  |
| Sample(s) Status       | Engineered sample                                |
| Operation Frequency:   | 2402MHz~2480MHz                                  |
| Channel separation:    | 0.5M                                             |
| Modulation Technology: | GFSK                                             |
| Antenna Type:          | PCB Antenna                                      |
| Antenna Gain:          | -0.1dBi(declare by applicant)                    |
| Power supply:          | DC 3.0V(Size“CR2450” Lithium Battery)*2 parallel |

Disclaimer statement:

1. Antenna gain information provided by the customer, and the laboratory is not responsible for its authenticity.
2. The information in this section is provided by the applicant or manufacturer, GTS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

The test frequencies are below:

| Channel             | Frequency |
|---------------------|-----------|
| The lowest channel  | 2402MHz   |
| The middle channel  | 2441MHz   |
| The Highest channel | 2480MHz   |

| Operation Frequency each of channel |                 |         |                 |         |                 |         |                 |
|-------------------------------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel                             | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 4                                   | 2402.0          | 44      | 2422.0          | 84      | 2442.0          | 124     | 2462.0          |
| 5                                   | 2402.5          | 45      | 2422.5          | 85      | 2442.5          | 125     | 2462.5          |
| 6                                   | 2403.0          | 46      | 2423.0          | 86      | 2443.0          | 126     | 2463.0          |
| 7                                   | 2403.5          | 47      | 2423.5          | 87      | 2443.5          | 127     | 2463.5          |
| 8                                   | 2404.0          | 48      | 2424.0          | 88      | 2444.0          | 128     | 2464.0          |
| 9                                   | 2404.5          | 49      | 2424.5          | 89      | 2444.5          | 129     | 2464.5          |
| 10                                  | 2405.0          | 50      | 2425.0          | 90      | 2445.0          | 130     | 2465.0          |
| 11                                  | 2405.5          | 51      | 2425.5          | 91      | 2445.5          | 131     | 2465.5          |
| 12                                  | 2406.0          | 52      | 2426.0          | 92      | 2446.0          | 132     | 2466.0          |
| 13                                  | 2406.5          | 53      | 2426.5          | 93      | 2446.5          | 133     | 2466.5          |
| 14                                  | 2407.0          | 54      | 2427.0          | 94      | 2447.0          | 134     | 2467.0          |
| 15                                  | 2407.5          | 55      | 2427.5          | 95      | 2447.5          | 135     | 2467.5          |
| 16                                  | 2408.0          | 56      | 2428.0          | 96      | 2448.0          | 136     | 2468.0          |
| 17                                  | 2408.5          | 57      | 2428.5          | 97      | 2448.5          | 137     | 2468.5          |
| 18                                  | 2409.0          | 58      | 2429.0          | 98      | 2449.0          | 138     | 2469.0          |
| 19                                  | 2409.5          | 59      | 2429.5          | 99      | 2449.5          | 139     | 2469.5          |
| 20                                  | 2410.0          | 60      | 2430.0          | 100     | 2450.0          | 140     | 2470.0          |
| 21                                  | 2410.5          | 61      | 2430.5          | 101     | 2450.5          | 141     | 2470.5          |
| 22                                  | 2411.0          | 62      | 2431.0          | 102     | 2451.0          | 142     | 2471.0          |
| 23                                  | 2411.5          | 63      | 2431.5          | 103     | 2451.5          | 143     | 2471.5          |
| 24                                  | 2412.0          | 64      | 2432.0          | 104     | 2452.0          | 144     | 2472.0          |
| 25                                  | 2412.5          | 65      | 2432.5          | 105     | 2452.5          | 145     | 2472.5          |
| 26                                  | 2413.0          | 66      | 2433.0          | 106     | 2453.0          | 146     | 2473.0          |
| 27                                  | 2413.5          | 67      | 2433.5          | 107     | 2453.5          | 147     | 2473.5          |
| 28                                  | 2414.0          | 68      | 2434.0          | 108     | 2454.0          | 148     | 2474.0          |
| 29                                  | 2414.5          | 69      | 2434.5          | 109     | 2454.5          | 149     | 2474.5          |
| 30                                  | 2415.0          | 70      | 2435.0          | 110     | 2455.0          | 150     | 2475.0          |
| 31                                  | 2415.5          | 71      | 2435.5          | 111     | 2455.5          | 151     | 2475.5          |
| 32                                  | 2416.0          | 72      | 2436.0          | 112     | 2456.0          | 152     | 2476.0          |
| 33                                  | 2416.5          | 73      | 2436.5          | 113     | 2456.5          | 153     | 2476.5          |
| 34                                  | 2417.0          | 74      | 2437.0          | 114     | 2457.0          | 154     | 2477.0          |
| 35                                  | 2417.5          | 75      | 2437.5          | 115     | 2457.5          | 155     | 2477.5          |
| 36                                  | 2418.0          | 76      | 2438.0          | 116     | 2458.0          | 156     | 2478.0          |
| 37                                  | 2418.5          | 77      | 2438.5          | 117     | 2458.5          | 157     | 2478.5          |
| 38                                  | 2419.0          | 78      | 2439.0          | 118     | 2459.0          | 158     | 2479.0          |
| 39                                  | 2419.5          | 79      | 2439.5          | 119     | 2459.5          | 159     | 2479.5          |
| 40                                  | 2420.0          | 80      | 2440.0          | 120     | 2460.0          | 160     | 2480.0          |
| 41                                  | 2420.5          | 81      | 2440.5          | 121     | 2460.5          |         |                 |
| 42                                  | 2421.0          | 82      | 2441.0          | 122     | 2461.0          |         |                 |
| 43                                  | 2421.5          | 83      | 2441.5          | 123     | 2461.5          |         |                 |

## 5.2 Test mode

|                   |                                                 |
|-------------------|-------------------------------------------------|
| Transmitting mode | Keep the EUT in continuously transmitting mode. |
|-------------------|-------------------------------------------------|

### Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report (Only show the worst case:Y axis) and defined as follows:

| Axis                   | X     | Y     | Z     |
|------------------------|-------|-------|-------|
| Field Strength(dBuV/m) | 92.03 | 93.97 | 92.54 |

## 5.3 Description of Support Units

|       |
|-------|
| None. |
|-------|

## 5.4 Deviation from Standards

|       |
|-------|
| None. |
|-------|

## 5.5 Abnormalities from Standard Conditions

|       |
|-------|
| None. |
|-------|

## 5.6 Test Facility

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

- **FCC—Registration No.: 381383**

Designation Number: CN5029

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.

- **ISED—Registration No.: 9079A**

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of ISED for radio equipment testing

- **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

## 5.7 Test Location

|                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| All tests were performed at:                                                                                                                                                                                                                         |
| Global United Technology Services Co., Ltd.<br>Address: No. 123- 128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102<br>Tel: 0755-27798480<br>Fax: 0755-27798960 |

## 5.8 Additional Instructions

|                   |                                               |
|-------------------|-----------------------------------------------|
| Test Software     | Special test command provided by manufacturer |
| Power level setup | Default                                       |

## 6 Test Instruments list

| Radiated Emission: |                                     |                                |                       |               |                     |                         |
|--------------------|-------------------------------------|--------------------------------|-----------------------|---------------|---------------------|-------------------------|
| Item               | Test Equipment                      | Manufacturer                   | Model No.             | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1                  | 3m Semi- Anechoic Chamber           | ZhongYu Electron               | 9.2(L)*6.2(W)* 6.4(H) | GTS250        | Apr. 11, 2025       | Apr. 10, 2026           |
| 2                  | Control Room                        | ZhongYu Electron               | 6.2(L)*2.5(W)* 2.4(H) | GTS251        | N/A                 | N/A                     |
| 3                  | EMI Test Receiver                   | Rohde & Schwarz                | ESU26                 | GTS203        | Apr. 12, 2025       | Apr. 11, 2026           |
| 4                  | BiConiLog Antenna                   | SCHWARZBECK<br>MESS-ELEKTRONIK | VULB9168              | GTS640        | Apr. 12, 2025       | Apr. 11, 2026           |
| 5                  | Double -ridged waveguide horn       | SCHWARZBECK<br>MESS-ELEKTRONIK | BBHA 9120 D           | GTS208        | Apr. 11, 2025       | Apr. 10, 2026           |
| 6                  | Wideband Radio Communication Tester | Rohde & Schwarz                | CMW500                | GTS575        | Jul. 01, 2025       | Jun. 30, 2026           |
| 7                  | Loop Antenna                        | ZHINAN                         | ZN30900A              | GTS534        | Nov.16, 2024        | Nov.15, 2025            |
| 8                  | Broadband Preamplifier              | SCHWARZBECK                    | BBV9718               | GTS535        | Apr. 11, 2025       | Apr. 10, 2026           |
| 9                  | Amplifier(1GHz-26.5GHz)             | HP                             | 8449B                 | GTS601        | Apr. 11, 2025       | Apr. 10, 2026           |
| 10                 | Horn Antenna (18GH-40GHz)           | Schwarzbeck                    | BBHA 9170             | GTS691        | Apr. 11, 2025       | Apr. 10, 2026           |
| 11                 | FSV-Signal Analyzer (10Hz-40GHz)    | Keysight                       | FSV-40-N              | GTS666        | Mar. 11, 2025       | Mar. 10, 2026           |
| 12                 | Amplifier                           | /                              | LNA-1000-30S          | GTS650        | Apr. 11, 2025       | Apr. 10, 2026           |
| 13                 | CDNE M2+M3-16A                      | HCT                            | 30MHz-300MHz          | GTS692        | Nov. 13, 2024       | Nov. 12, 2025           |
| 14                 | Wideband Amplifier                  | /                              | WDA-01004000-15P35    | GTS602        | Apr. 11, 2025       | Apr. 10, 2026           |
| 15                 | Thermo meter                        | JINCHUANG                      | GSP-8A                | GTS643        | Apr. 15, 2025       | Apr. 14, 2026           |
| 16                 | RE cable 1                          | GTS                            | N/A                   | GTS675        | Jul. 11, 2025       | Jul. 10, 2026           |
| 17                 | RE cable 2                          | GTS                            | N/A                   | GTS676        | Jul. 11, 2025       | Jul. 10, 2026           |
| 18                 | RE cable 3                          | GTS                            | N/A                   | GTS677        | Jul. 11, 2025       | Jul. 10, 2026           |
| 19                 | RE cable 4                          | GTS                            | N/A                   | GTS678        | Jul. 11, 2025       | Jul. 10, 2026           |
| 20                 | RE cable 5                          | GTS                            | N/A                   | GTS679        | Jul. 11, 2025       | Jul. 10, 2026           |
| 21                 | RE cable 6                          | GTS                            | N/A                   | GTS680        | Jul. 11, 2025       | Jul. 10, 2026           |
| 22                 | RE cable 7                          | GTS                            | N/A                   | GTS681        | Jul. 11, 2025       | Jul. 10, 2026           |
| 23                 | RE cable 8                          | GTS                            | N/A                   | GTS682        | Jul. 11, 2025       | Jul. 10, 2026           |
| 24                 | EMI Test Software                   | AUDIX                          | E3-6.100614a          | GTS725        | N/A                 | N/A                     |

**RF Conducted Test:**

| Item | Test Equipment                                 | Manufacturer | Model No.        | Serial No. | Cal.Date<br>(mm-dd-yy) | Cal.Due date<br>(mm-dd-yy) |
|------|------------------------------------------------|--------------|------------------|------------|------------------------|----------------------------|
| 1    | MXA Signal Analyzer                            | Agilent      | N9020A           | GTS566     | Apr. 11, 2025          | Apr. 10, 2026              |
| 2    | EMI Test Receiver                              | R&S          | ESCI 7           | GTS552     | Apr. 12, 2025          | Apr. 11, 2026              |
| 3    | PSA Series Spectrum Analyzer                   | Agilent      | E4440A           | GTS536     | Apr. 11, 2025          | Apr. 10, 2026              |
| 4    | MXG vector Signal Generator                    | Agilent      | N5182A           | GTS567     | Apr. 11, 2025          | Apr. 10, 2026              |
| 5    | ESG Analog Signal Generator                    | Agilent      | E4428C           | GTS568     | Apr. 11, 2025          | Apr. 10, 2026              |
| 6    | Wideband Power Meter                           | Keysight     | N1924A           | GTS673     | Apr. 11, 2025          | Apr. 10, 2026              |
| 7    | USB RF Power Sensor                            | DARE         | RPR3006W         | GTS569     | Apr. 11, 2025          | Apr. 10, 2026              |
| 8    | RF Switch Box                                  | Shongyi      | RFSW3003328      | GTS571     | Apr. 11, 2025          | Apr. 10, 2026              |
| 9    | Programmable Constant Temp & Humi Test Chamber | WEWON        | WHTH-150L-40-880 | GTS572     | Apr. 11, 2025          | Apr. 10, 2026              |
| 10   | Thermo meter                                   | JINCHUANG    | GSP-8A           | GTS641     | Apr. 15, 2025          | Apr. 14, 2026              |
| 11   | EXA Signal Analyzer                            | Keysight     | N9010B           | MY60241168 | Nov. 02, 2024          | Nov. 01, 2025              |

**General used equipment:**

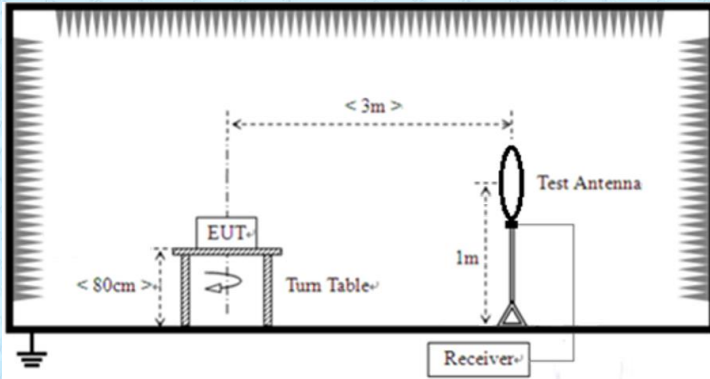
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date<br>(mm-dd-yy) | Cal.Due date<br>(mm-dd-yy) |
|------|----------------|--------------|-----------|---------------|------------------------|----------------------------|
| 1    | Barometer      | KUMAO        | SF132     | GTS647        | Jul. 16, 2025          | Jul. 15, 2026              |

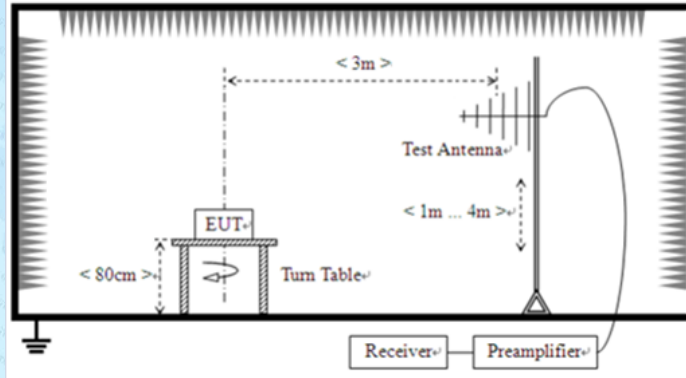
## 7 Test results and Measurement Data

### 7.1 Antenna requirement

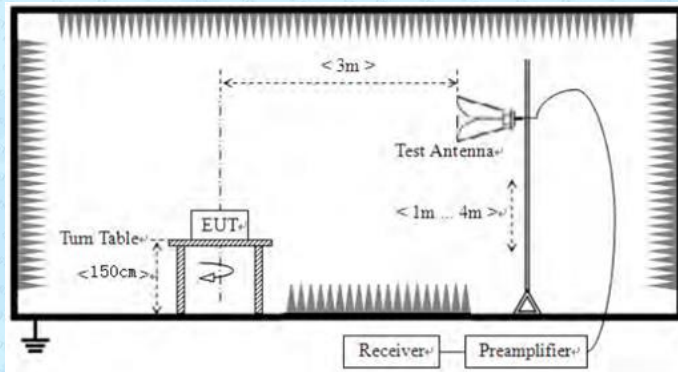
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>Standard requirement:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            | FCC Part15 C Section 15.203 |
| <b>15.203 requirement:</b><br><p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> |                             |
| <b>EUT Antenna:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |
| The antenna is PCB antenna, reference to the appendix II for details.                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |

## 7.2 Radiated Emission Method

|                                                      |                                                                                                                                                                                                                                                                |                    |        |                  |                  |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------|------------------|------------------|
| Test Requirement:                                    | FCC Part15 C Section 15.209                                                                                                                                                                                                                                    |                    |        |                  |                  |
| Test Method:                                         | ANSI C63.10:2013                                                                                                                                                                                                                                               |                    |        |                  |                  |
| Test Frequency Range:                                | 9kHz to 25GHz                                                                                                                                                                                                                                                  |                    |        |                  |                  |
| Test site:                                           | Measurement Distance: 3m                                                                                                                                                                                                                                       |                    |        |                  |                  |
| Receiver setup:                                      | Frequency                                                                                                                                                                                                                                                      | Detector           | RBW    | VBW              | Remark           |
|                                                      | 9kHz-150kHz                                                                                                                                                                                                                                                    | Quasi-peak         | 200Hz  | 300Hz            | Quasi-peak Value |
|                                                      | 150kHz-30MHz                                                                                                                                                                                                                                                   | Quasi-peak         | 9kHz   | 10kHz            | Quasi-peak Value |
|                                                      | 30MHz-1GHz                                                                                                                                                                                                                                                     | Quasi-peak         | 120KHz | 300KHz           | Quasi-peak Value |
|                                                      | Above 1GHz                                                                                                                                                                                                                                                     | Peak               | 1MHz   | 3MHz             | Peak Value       |
|                                                      |                                                                                                                                                                                                                                                                | Peak               | 1MHz   | 10Hz             | Average Value    |
| Limit:<br>(Field strength of the fundamental signal) | Frequency                                                                                                                                                                                                                                                      | Limit (dBuV/m @3m) |        | Remark           |                  |
|                                                      | 2400MHz-2483.5MHz                                                                                                                                                                                                                                              | 94.00              |        | Average Value    |                  |
|                                                      |                                                                                                                                                                                                                                                                | 114.00             |        | Peak Value       |                  |
| Limit:<br>(Spurious Emissions)                       | Frequency                                                                                                                                                                                                                                                      | Limit (uV/m)       |        | Remark           |                  |
|                                                      | 0.009MHz-0.490MHz                                                                                                                                                                                                                                              | 2400/F(kHz) @300m  |        | Quasi-peak Value |                  |
|                                                      | 0.490MHz-1.705MHz                                                                                                                                                                                                                                              | 24000/F(kHz) @30m  |        | Quasi-peak Value |                  |
|                                                      | 1.705MHz-30.0MHz                                                                                                                                                                                                                                               | 30 @30m            |        | Quasi-peak Value |                  |
|                                                      | 30MHz-88MHz                                                                                                                                                                                                                                                    | 100 @3m            |        | Quasi-peak Value |                  |
|                                                      | 88MHz-216MHz                                                                                                                                                                                                                                                   | 150 @3m            |        | Quasi-peak Value |                  |
|                                                      | 216MHz-960MHz                                                                                                                                                                                                                                                  | 200 @3m            |        | Quasi-peak Value |                  |
|                                                      | 960MHz-1GHz                                                                                                                                                                                                                                                    | 500 @3m            |        | Quasi-peak Value |                  |
|                                                      | Above 1GHz                                                                                                                                                                                                                                                     | 500 @3m            |        | Average Value    |                  |
|                                                      |                                                                                                                                                                                                                                                                | 5000 @3m           |        | Peak Value       |                  |
| Limit:<br>(band edge)                                | Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation. |                    |        |                  |                  |
| Test setup:                                          | For radiated emissions from 9kHz to 30MHz                                                                                                                                                                                                                      |                    |        |                  |                  |
|                                                      |                                                                                                                                                                            |                    |        |                  |                  |
|                                                      | For radiated emissions from 30MHz to1GHz                                                                                                                                                                                                                       |                    |        |                  |                  |



For radiated emissions above 1GHz



## Test Procedure:

1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

## Test Instruments:

Refer to section 6.0 for details

## Test mode:

Refer to section 5.2 for details

## Test environment:

Temp.: 25 °C Humid.: 52% Press.: 1012mbar

## Test voltage:

DC 3V

## Test results:

Pass

**Measurement data:****7.2.1 Field Strength of The Fundamental Signal****Peak value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2402.00         | 89.50             | 27.10                 | 4.18            | 39.36                    | 81.42          | 114.00              | -35.58          | Vertical     |
| 2402.00         | 100.43            | 27.10                 | 4.18            | 39.36                    | 92.35          | 114.00              | -21.65          | Horizontal   |
| 2441.00         | 89.61             | 27.18                 | 4.13            | 39.46                    | 81.46          | 114.00              | -32.54          | Vertical     |
| 2441.00         | 99.64             | 27.18                 | 4.13            | 39.46                    | 91.49          | 114.00              | -22.51          | Horizontal   |
| 2480.00         | 90.04             | 27.26                 | 4.08            | 39.55                    | 81.83          | 114.00              | -32.17          | Vertical     |
| 2480.00         | 102.18            | 27.26                 | 4.08            | 39.55                    | 93.97          | 114.00              | -20.03          | Horizontal   |

**Average value:**

| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamplifier Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2402.00         | 86.34             | 27.10                 | 4.18            | 39.36                    | 78.26          | 94.00               | -15.74          | Vertical     |
| 2402.00         | 96.48             | 27.10                 | 4.18            | 39.36                    | 88.40          | 94.00               | -5.60           | Horizontal   |
| 2441.00         | 85.98             | 27.18                 | 4.13            | 39.46                    | 77.83          | 94.00               | -16.17          | Vertical     |
| 2441.00         | 95.17             | 27.18                 | 4.13            | 39.46                    | 87.02          | 94.00               | -6.98           | Horizontal   |
| 2480.00         | 86.93             | 27.26                 | 4.08            | 39.55                    | 78.72          | 94.00               | -15.28          | Vertical     |
| 2480.00         | 96.73             | 27.26                 | 4.08            | 39.55                    | 88.52          | 94.00               | -5.48           | Horizontal   |

**Note:**

1. For fundamental frequency , RBW>20dB BW, VBW>=RBW, PK detector for PK value, RMS detector for AV value
2. Final Level(dBuV/m)=Reading level(dBuV)+Antenna Factor(dB/m)+Cable Loss (dB)–Preamplifier Factor(dB)

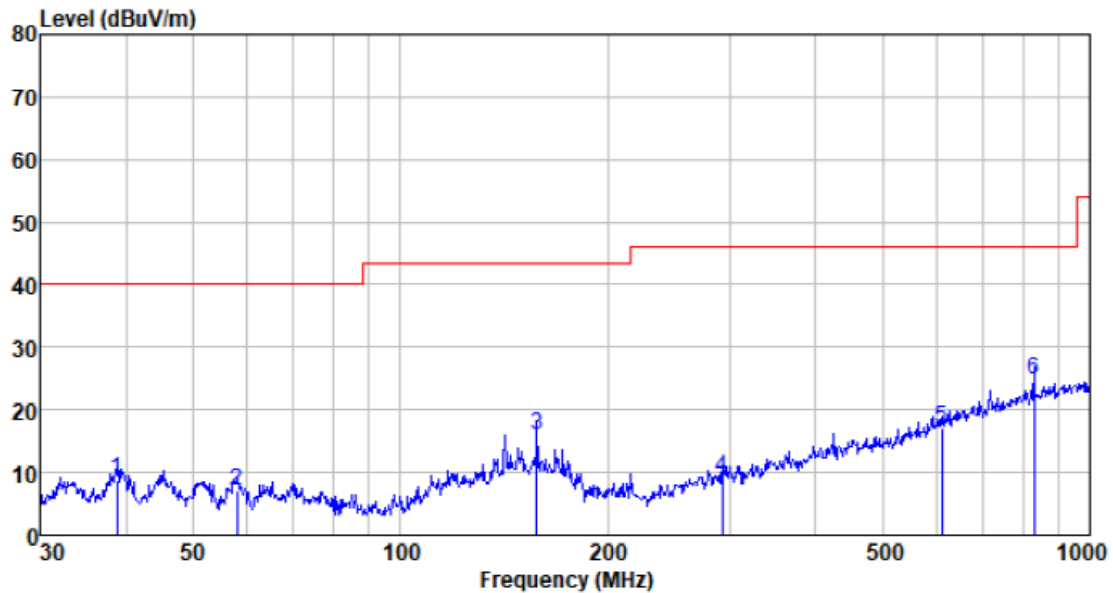
## 7.2.2 Spurious emissions

### ■ Below 30MHz

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

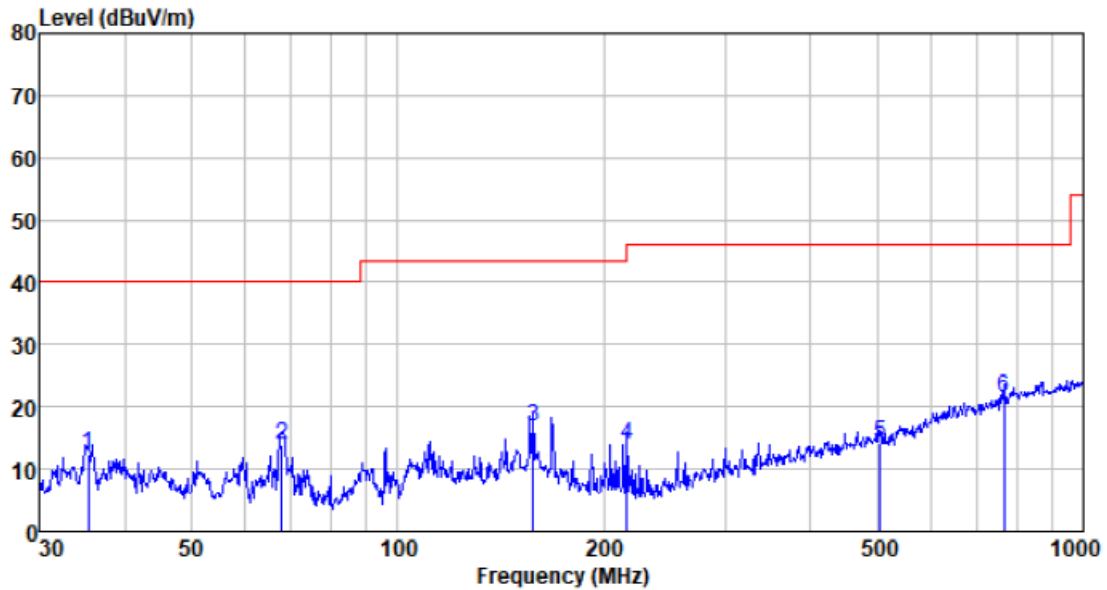
### ■ Below 1GHz

Pre-scan all test modes, found worst case at 2402MHz, and so only show the test result of it  
Horizontal



| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 38.752      | 25.84                    | 14.13                     | 1.24                | 32.30                  | 8.91            | 40.00                    | -31.09              | QP     |
| 57.999      | 25.68                    | 12.30                     | 1.46                | 32.33                  | 7.11            | 40.00                    | -32.89              | QP     |
| 157.559     | 31.12                    | 14.74                     | 2.53                | 32.44                  | 15.95           | 43.50                    | -27.55              | QP     |
| 293.084     | 25.81                    | 12.22                     | 3.39                | 32.31                  | 9.11            | 46.00                    | -36.89              | QP     |
| 609.922     | 24.90                    | 19.20                     | 4.68                | 31.80                  | 16.98           | 46.00                    | -29.02              | QP     |
| 830.400     | 28.06                    | 22.40                     | 5.55                | 31.10                  | 24.91           | 46.00                    | -21.09              | QP     |

Vertical



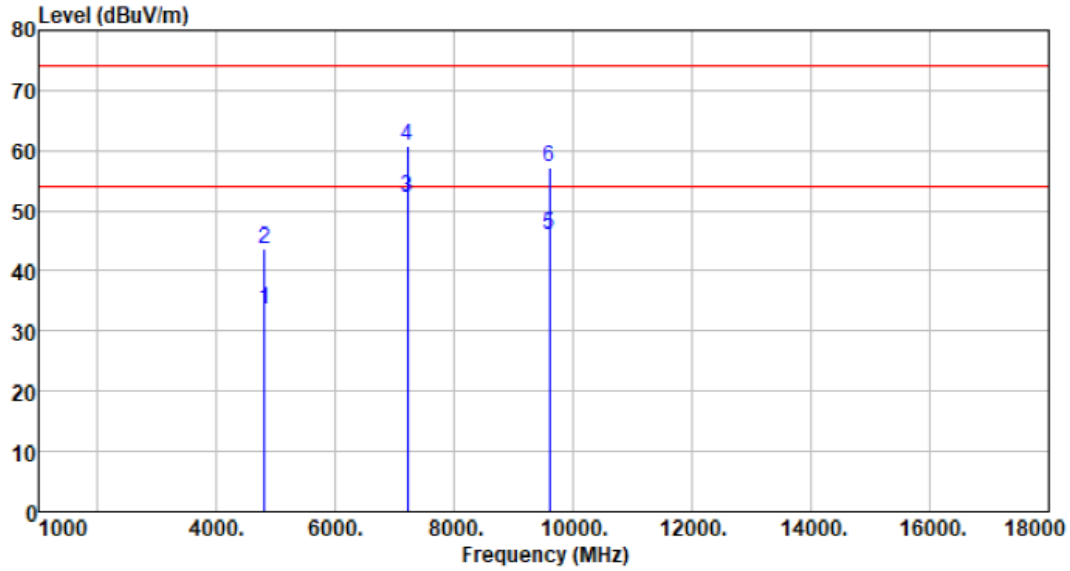
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 35.375      | 30.18                    | 13.18                     | 1.19                | 32.30                  | 12.25           | 40.00                    | -27.75              | QP     |
| 67.675      | 33.73                    | 11.03                     | 1.61                | 32.37                  | 14.00           | 40.00                    | -26.00              | QP     |
| 157.559     | 32.09                    | 14.74                     | 2.53                | 32.44                  | 16.92           | 43.50                    | -26.58              | QP     |
| 216.024     | 33.55                    | 9.76                      | 2.96                | 32.38                  | 13.89           | 46.00                    | -32.11              | QP     |
| 504.706     | 25.22                    | 16.89                     | 4.21                | 32.18                  | 14.14           | 46.00                    | -31.86              | QP     |
| 766.057     | 25.99                    | 21.50                     | 5.34                | 31.22                  | 21.61           | 46.00                    | -24.39              | QP     |

Note:

Final Level(dBuV/m)=Reading level(dBuV)+Antenna Factor(dB/m)+Cable Loss (dB)-Preamp Factor(dB)

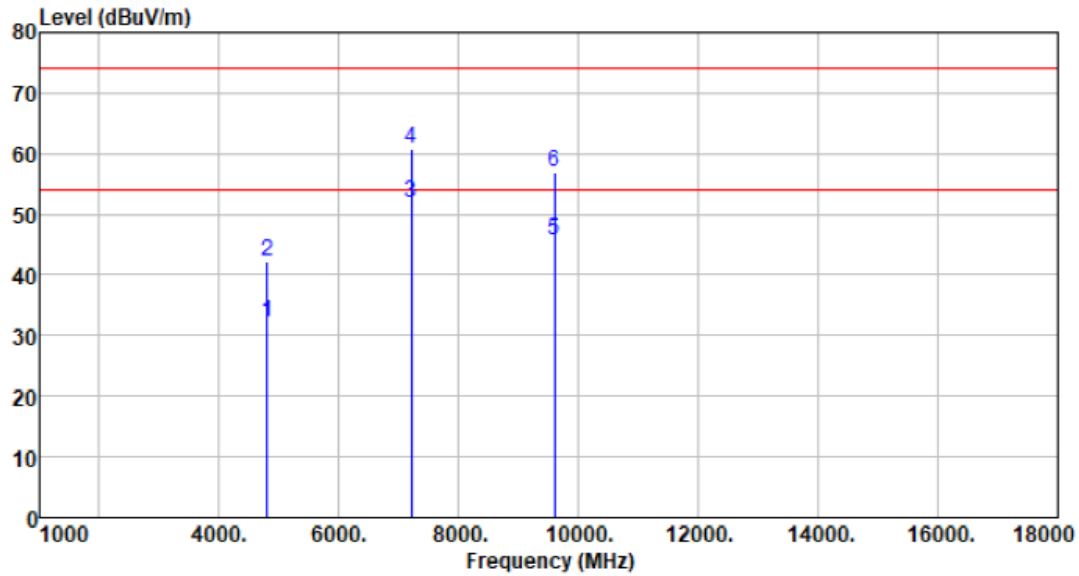
■ Above 1GHz

|               |        |               |            |
|---------------|--------|---------------|------------|
| Test channel: | Lowest | Polarization: | Horizontal |
|---------------|--------|---------------|------------|



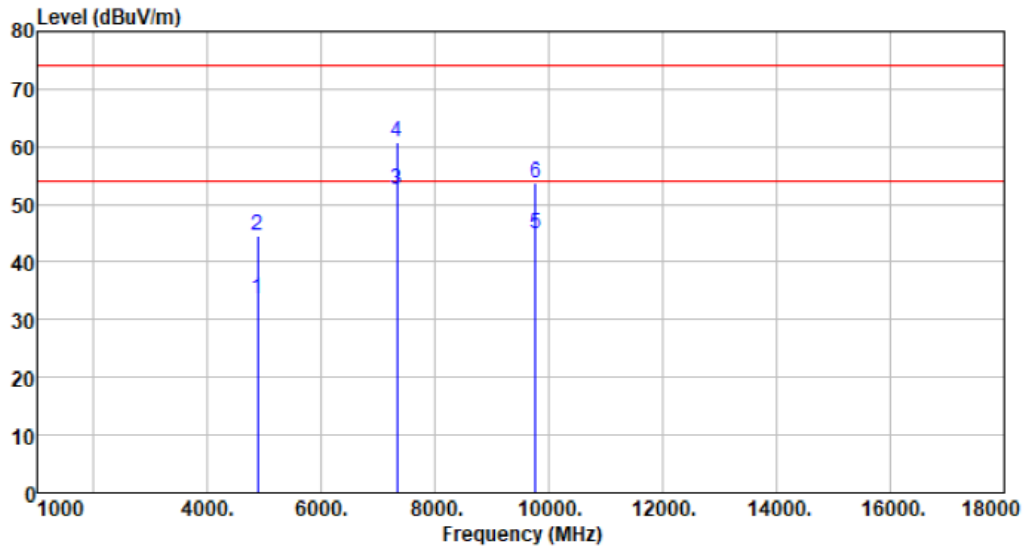
| Freq<br>MHz | Reading<br>level<br>dBuV/m | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | Final<br>level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|----------------------------|---------------------------|---------------------|------------------------|--------------------------|--------------------------|---------------------|---------|
| 4808.000    | 34.24                      | 32.02                     | 6.01                | 38.54                  | 33.73                    | 54.00                    | -20.27              | Average |
| 4808.000    | 44.19                      | 32.02                     | 6.01                | 38.54                  | 43.68                    | 74.00                    | -30.32              | Peak    |
| 7206.000    | 47.32                      | 36.21                     | 7.92                | 39.14                  | 52.31                    | 54.00                    | -1.69               | Average |
| 7206.000    | 55.71                      | 36.21                     | 7.92                | 39.14                  | 60.70                    | 74.00                    | -13.30              | Peak    |
| 9602.000    | 33.02                      | 38.20                     | 15.01               | 40.22                  | 46.01                    | 54.00                    | -7.99               | Average |
| 9602.000    | 44.16                      | 38.20                     | 15.01               | 40.22                  | 57.15                    | 74.00                    | -16.85              | Peak    |

|               |        |               |          |
|---------------|--------|---------------|----------|
| Test channel: | Lowest | Polarization: | Vertical |
|---------------|--------|---------------|----------|



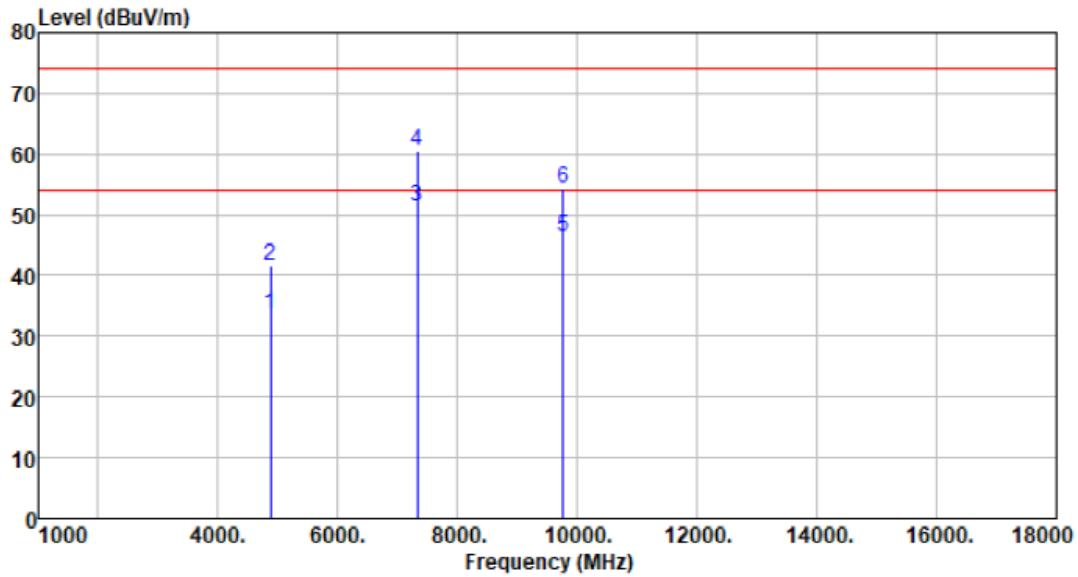
| Freq<br>MHz | Reading<br>level<br>dBuV/m | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | Final<br>level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|----------------------------|---------------------------|---------------------|------------------------|--------------------------|--------------------------|---------------------|---------|
| 4808.000    | 32.83                      | 32.02                     | 6.01                | 38.54                  | 32.32                    | 54.00                    | -21.68              | Average |
| 4808.000    | 42.71                      | 32.02                     | 6.01                | 38.54                  | 42.20                    | 74.00                    | -31.80              | Peak    |
| 7206.000    | 46.86                      | 36.21                     | 7.92                | 39.14                  | 51.85                    | 54.00                    | -2.15               | Average |
| 7206.000    | 55.89                      | 36.21                     | 7.92                | 39.14                  | 60.88                    | 74.00                    | -13.12              | Peak    |
| 9602.000    | 32.72                      | 38.20                     | 15.01               | 40.22                  | 45.71                    | 54.00                    | -8.29               | Average |
| 9602.000    | 43.87                      | 38.20                     | 15.01               | 40.22                  | 56.86                    | 74.00                    | -17.14              | Peak    |

|               |        |               |            |
|---------------|--------|---------------|------------|
| Test channel: | Middle | Polarization: | Horizontal |
|---------------|--------|---------------|------------|



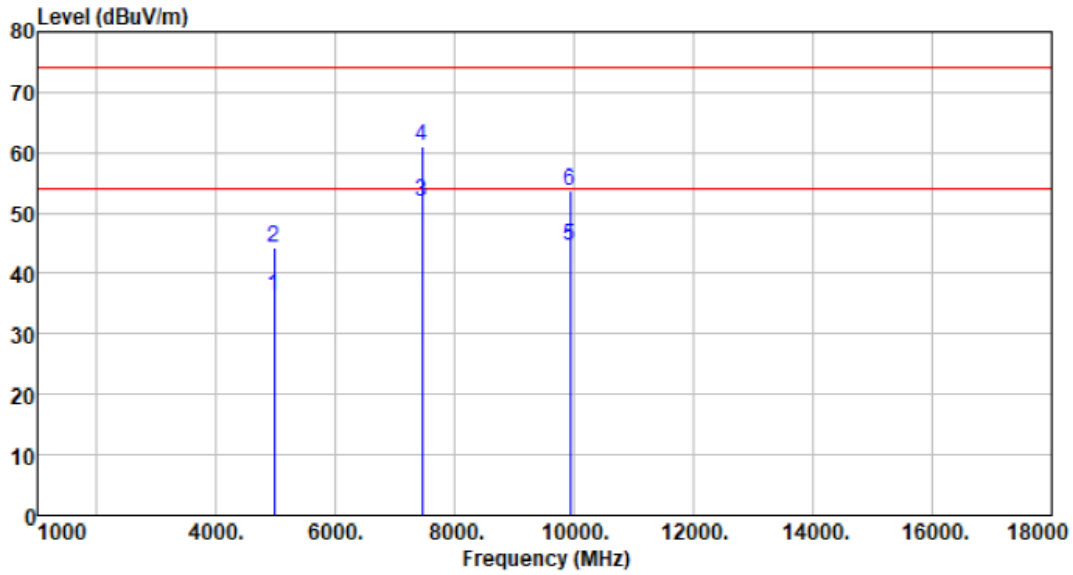
| Freq<br>MHz | Reading<br>level<br>dBuV/m | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | Final<br>level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|----------------------------|---------------------------|---------------------|------------------------|--------------------------|--------------------------|---------------------|---------|
| 4876.000    | 34.15                      | 32.10                     | 6.03                | 38.52                  | 33.76                    | 54.00                    | -20.24              | Average |
| 4876.000    | 45.07                      | 32.10                     | 6.03                | 38.52                  | 44.68                    | 74.00                    | -29.32              | Peak    |
| 7324.000    | 47.44                      | 36.30                     | 8.04                | 39.23                  | 52.55                    | 54.00                    | -1.45               | Average |
| 7324.000    | 55.69                      | 36.30                     | 8.04                | 39.23                  | 60.80                    | 74.00                    | -13.20              | Peak    |
| 9755.000    | 35.39                      | 38.20                     | 11.46               | 40.25                  | 44.80                    | 54.00                    | -9.20               | Average |
| 9755.000    | 44.26                      | 38.20                     | 11.46               | 40.25                  | 53.67                    | 74.00                    | -20.33              | Peak    |

|               |        |               |          |
|---------------|--------|---------------|----------|
| Test channel: | Middle | Polarization: | Vertical |
|---------------|--------|---------------|----------|



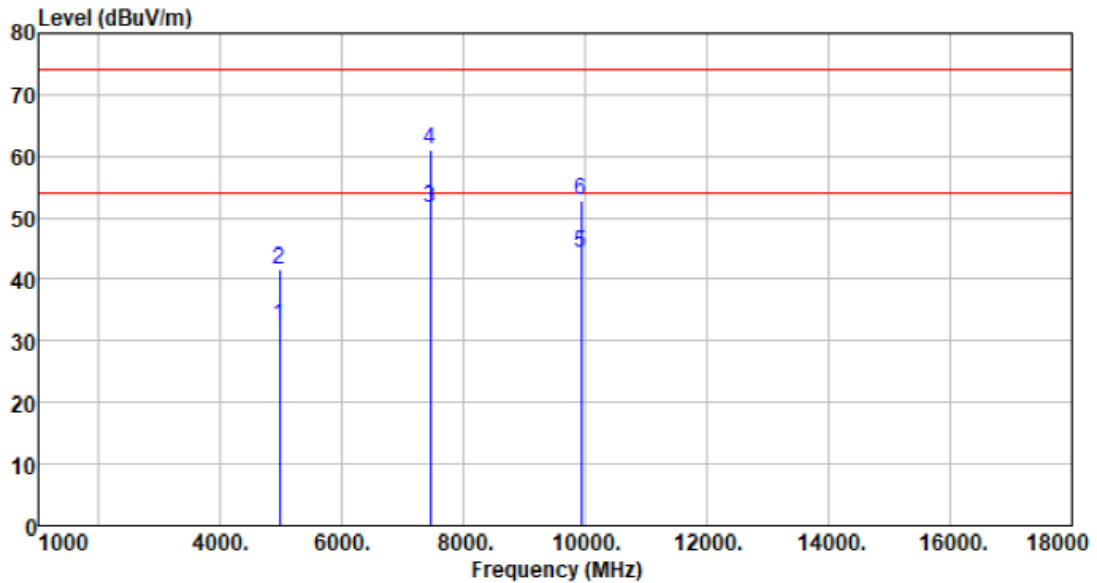
| Freq<br>MHz | Reading<br>level<br>dBuV/m | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | Final<br>level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|----------------------------|---------------------------|---------------------|------------------------|--------------------------|--------------------------|---------------------|---------|
| 4876.000    | 34.13                      | 32.10                     | 6.03                | 38.52                  | 33.74                    | 54.00                    | -20.26              | Average |
| 4876.000    | 42.07                      | 32.10                     | 6.03                | 38.52                  | 41.68                    | 74.00                    | -32.32              | Peak    |
| 7324.000    | 46.32                      | 36.30                     | 8.04                | 39.23                  | 51.43                    | 54.00                    | -2.57               | Average |
| 7324.000    | 55.53                      | 36.30                     | 8.04                | 39.23                  | 60.64                    | 74.00                    | -13.36              | Peak    |
| 9755.000    | 36.94                      | 38.20                     | 11.46               | 40.25                  | 46.35                    | 54.00                    | -7.65               | Average |
| 9755.000    | 44.88                      | 38.20                     | 11.46               | 40.25                  | 54.29                    | 74.00                    | -19.71              | Peak    |

|               |         |               |            |
|---------------|---------|---------------|------------|
| Test channel: | Highest | Polarization: | Horizontal |
|---------------|---------|---------------|------------|



| Freq<br>MHz | Reading<br>level<br>dBuV/m | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | Final<br>level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|----------------------------|---------------------------|---------------------|------------------------|--------------------------|--------------------------|---------------------|---------|
| 4961.000    | 36.69                      | 32.20                     | 6.05                | 38.51                  | 36.43                    | 54.00                    | -17.57              | Average |
| 4961.000    | 44.48                      | 32.20                     | 6.05                | 38.51                  | 44.22                    | 74.00                    | -29.78              | Peak    |
| 7443.000    | 46.86                      | 36.30                     | 8.16                | 39.31                  | 52.01                    | 54.00                    | -1.99               | Average |
| 7443.000    | 55.96                      | 36.30                     | 8.16                | 39.31                  | 61.11                    | 74.00                    | -12.89              | Peak    |
| 9925.000    | 35.80                      | 38.25                     | 10.78               | 40.28                  | 44.55                    | 54.00                    | -9.45               | Average |
| 9925.000    | 44.93                      | 38.25                     | 10.78               | 40.28                  | 53.68                    | 74.00                    | -20.32              | Peak    |

|               |         |               |          |
|---------------|---------|---------------|----------|
| Test channel: | Highest | Polarization: | Vertical |
|---------------|---------|---------------|----------|



| Freq<br>MHz | Reading<br>level<br>dBuV/m | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | Final<br>level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|----------------------------|---------------------------|---------------------|------------------------|--------------------------|--------------------------|---------------------|---------|
| 4961.000    | 32.87                      | 32.20                     | 6.05                | 38.51                  | 32.61                    | 54.00                    | -21.39              | Average |
| 4961.000    | 41.83                      | 32.20                     | 6.05                | 38.51                  | 41.57                    | 74.00                    | -32.43              | Peak    |
| 7443.000    | 46.63                      | 36.30                     | 8.16                | 39.31                  | 51.78                    | 54.00                    | -2.22               | Average |
| 7443.000    | 55.87                      | 36.30                     | 8.16                | 39.31                  | 61.02                    | 74.00                    | -12.98              | Peak    |
| 9925.000    | 35.42                      | 38.25                     | 10.78               | 40.28                  | 44.17                    | 54.00                    | -9.83               | Average |
| 9925.000    | 44.23                      | 38.25                     | 10.78               | 40.28                  | 52.98                    | 74.00                    | -21.02              | Peak    |

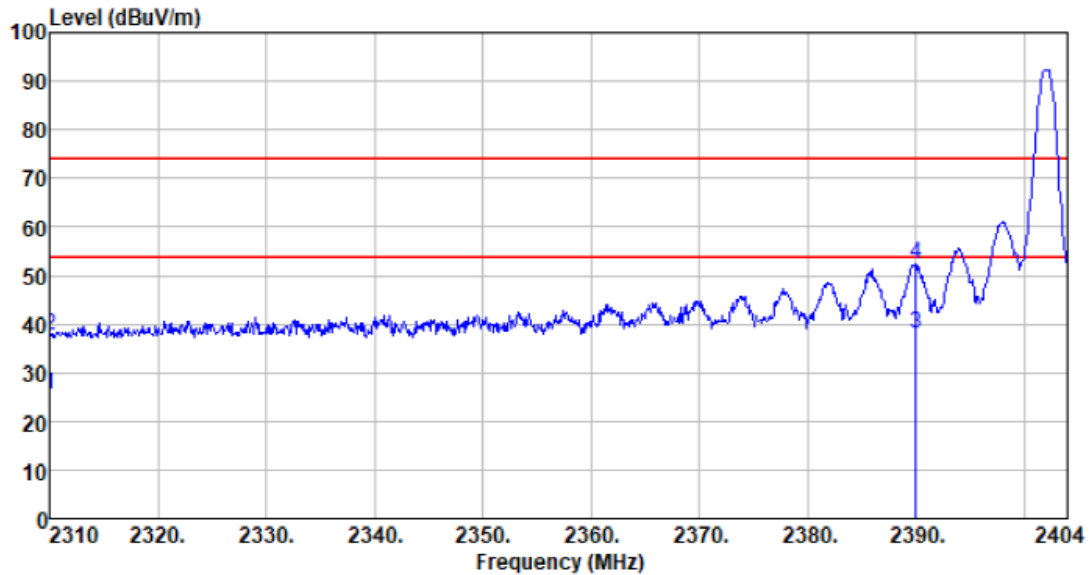
#### Note:

- The emission levels of other frequencies are very lower than the limit and not show in test report.
- For above 18GHz, no emission found.
- If the average limit is met when using a Peak detector, the EUT shall be deemed to meet both peak and average limits. And measurement with the average detector is unnecessary.
- Final Level (dBuV/m) = Reading level (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Pre-amplifier Factor (dB)

## 7.2.1 Bandedge emissions

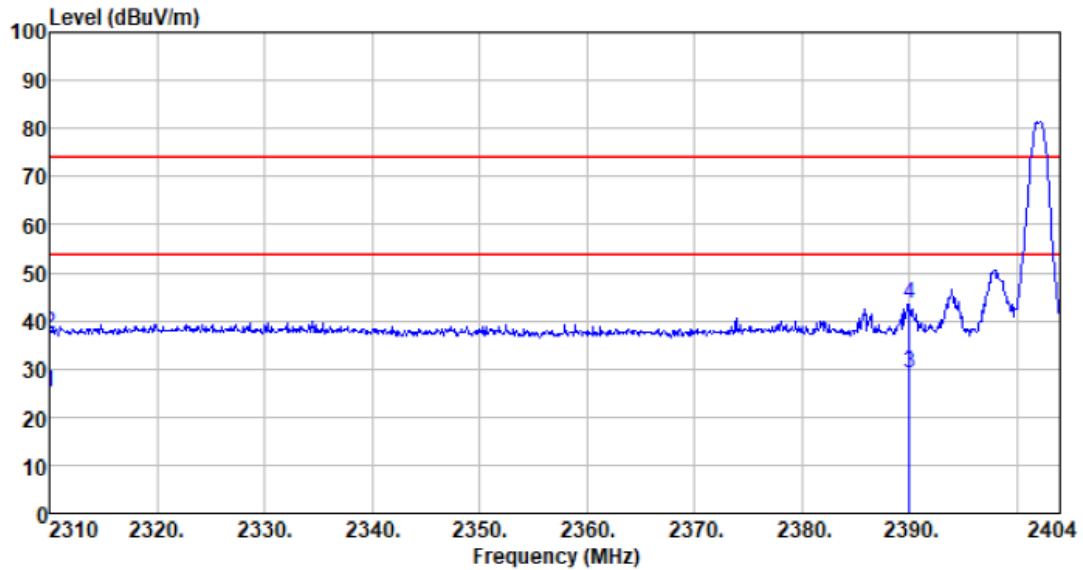
All of the restriction bands were tested, and only the data of worst case was exhibited.

|               |        |               |            |
|---------------|--------|---------------|------------|
| Test channel: | Lowest | Polarization: | Horizontal |
|---------------|--------|---------------|------------|



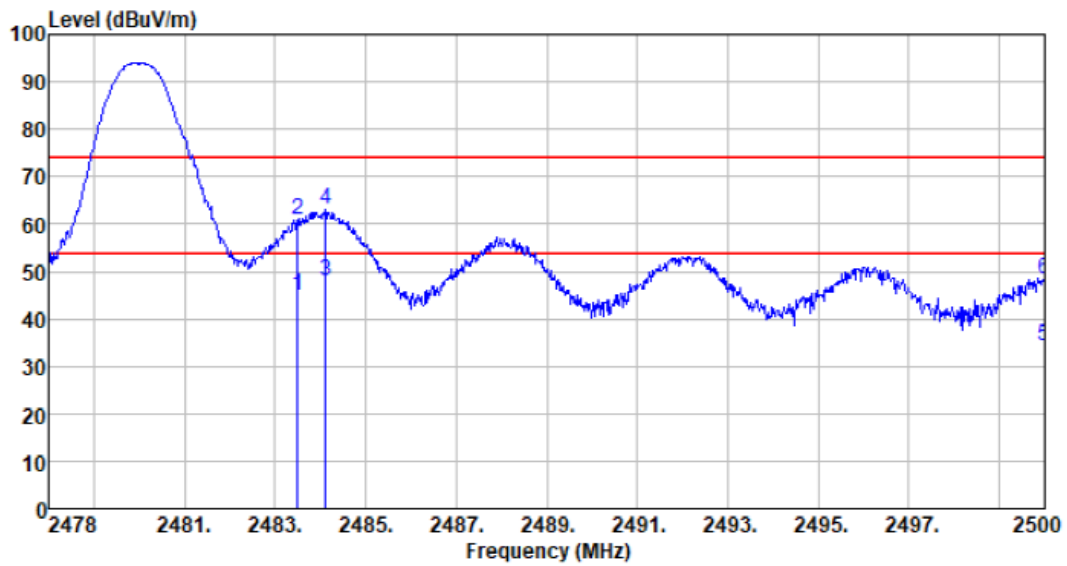
| Freq<br>MHz | Reading<br>level<br>dBuV/m | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | Final<br>level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|----------------------------|---------------------------|---------------------|------------------------|--------------------------|--------------------------|---------------------|---------|
| 2310.000    | 33.39                      | 27.00                     | 4.13                | 39.14                  | 25.38                    | 54.00                    | -28.62              | Average |
| 2310.000    | 45.56                      | 27.00                     | 4.13                | 39.14                  | 37.55                    | 74.00                    | -36.45              | Peak    |
| 2390.000    | 46.23                      | 27.08                     | 4.17                | 39.34                  | 38.14                    | 54.00                    | -15.86              | Average |
| 2390.000    | 60.37                      | 27.08                     | 4.17                | 39.34                  | 52.28                    | 74.00                    | -21.72              | Peak    |

|               |        |               |          |
|---------------|--------|---------------|----------|
| Test channel: | Lowest | Polarization: | Vertical |
|---------------|--------|---------------|----------|



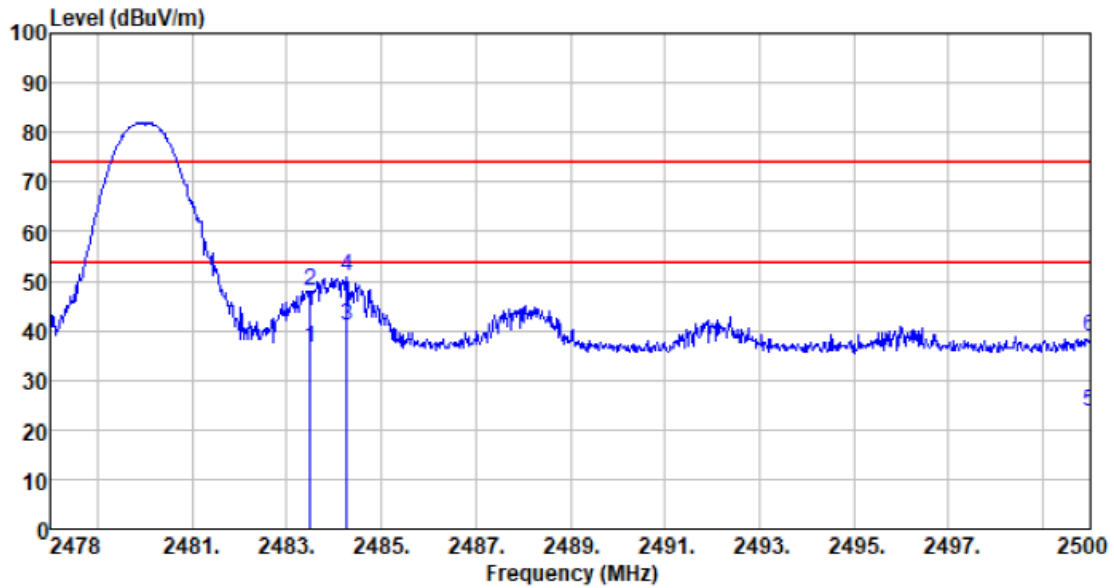
| Freq<br>MHz | Reading<br>level<br>dBuV/m | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamplifier<br>factor<br>dB | Final<br>level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|----------------------------|---------------------------|---------------------|------------------------------|--------------------------|--------------------------|---------------------|---------|
| 2310.000    | 33.23                      | 27.00                     | 4.13                | 39.14                        | 25.22                    | 54.00                    | -28.78              | Average |
| 2310.000    | 45.41                      | 27.00                     | 4.13                | 39.14                        | 37.40                    | 74.00                    | -36.60              | Peak    |
| 2390.000    | 37.42                      | 27.08                     | 4.17                | 39.34                        | 29.33                    | 54.00                    | -24.67              | Average |
| 2390.000    | 51.51                      | 27.08                     | 4.17                | 39.34                        | 43.42                    | 74.00                    | -30.58              | Peak    |

|               |         |               |            |
|---------------|---------|---------------|------------|
| Test channel: | Highest | Polarization: | Horizontal |
|---------------|---------|---------------|------------|



| Freq<br>MHz | Reading<br>level<br>dBuV/m | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | Final<br>level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|----------------------------|---------------------------|---------------------|------------------------|--------------------------|--------------------------|---------------------|---------|
| 2483.500    | 53.11                      | 27.27                     | 4.08                | 39.56                  | 44.90                    | 54.00                    | -9.10               | Average |
| 2483.500    | 69.22                      | 27.27                     | 4.08                | 39.56                  | 61.01                    | 74.00                    | -12.99              | Peak    |
| 2484.116    | 56.19                      | 27.27                     | 4.08                | 39.56                  | 47.98                    | 54.00                    | -6.02               | Average |
| 2484.116    | 71.26                      | 27.27                     | 4.08                | 39.56                  | 63.05                    | 74.00                    | -10.95              | Peak    |
| 2500.000    | 42.68                      | 27.30                     | 4.06                | 39.60                  | 34.44                    | 54.00                    | -19.56              | Average |
| 2500.000    | 56.52                      | 27.30                     | 4.06                | 39.60                  | 48.28                    | 74.00                    | -25.72              | Peak    |

|               |         |               |          |
|---------------|---------|---------------|----------|
| Test channel: | Highest | Polarization: | Vertical |
|---------------|---------|---------------|----------|

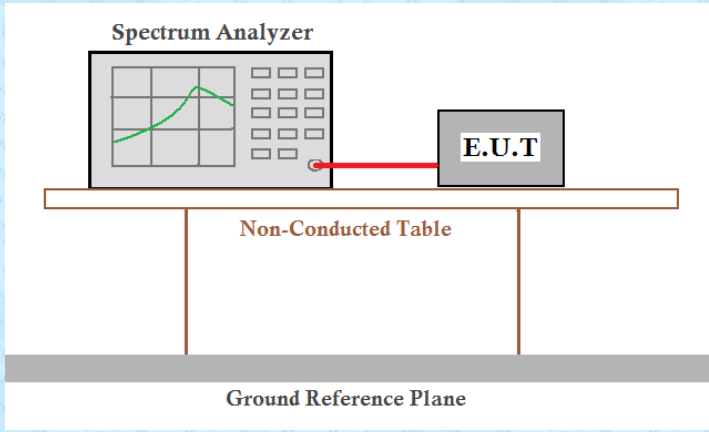


| Freq<br>MHz | Reading<br>level<br>dBuV/m | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | Final<br>level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|----------------------------|---------------------------|---------------------|------------------------|--------------------------|--------------------------|---------------------|---------|
| 2483.500    | 44.57                      | 27.27                     | 4.08                | 39.56                  | 36.36                    | 54.00                    | -17.64              | Average |
| 2483.500    | 56.35                      | 27.27                     | 4.08                | 39.56                  | 48.14                    | 74.00                    | -25.86              | Peak    |
| 2484.270    | 49.25                      | 27.27                     | 4.08                | 39.56                  | 41.04                    | 54.00                    | -12.96              | Average |
| 2484.270    | 59.17                      | 27.27                     | 4.08                | 39.56                  | 50.96                    | 74.00                    | -23.04              | Peak    |
| 2500.000    | 31.87                      | 27.30                     | 4.06                | 39.60                  | 23.63                    | 54.00                    | -30.37              | Average |
| 2500.000    | 46.96                      | 27.30                     | 4.06                | 39.60                  | 38.72                    | 74.00                    | -35.28              | Peak    |

Note:

- For above 18GHz, no emission found
- Final Level(dBuV/m)=Reading level(dBuV)+Antenna Factor(dB/m)+Cable Loss (dB)–Preamp Factor(dB)

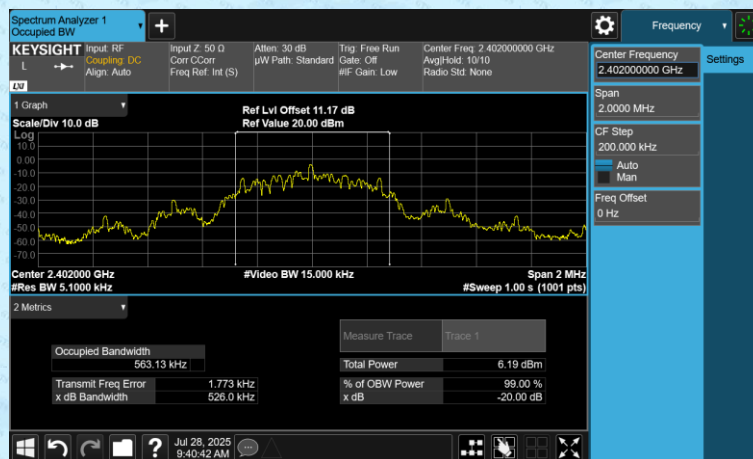
## 7.3 20dB Occupy Bandwidth

|                   |                                                                                                                                                                                                                                                                                                                                                            |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | FCC Part15 C Section 15.249/15.215                                                                                                                                                                                                                                                                                                                         |
| Test Method:      | ANSI C63.10:2013                                                                                                                                                                                                                                                                                                                                           |
| Limit:            | Operation Frequency range 2400MHz~2483.5MHz                                                                                                                                                                                                                                                                                                                |
| Test setup:       |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.</p> |
| Test Instruments: | Refer to section 6.0 for details                                                                                                                                                                                                                                                                                                                           |
| Test mode:        | Refer to section 5.2 for details                                                                                                                                                                                                                                                                                                                           |
| Test results:     | Pass                                                                                                                                                                                                                                                                                                                                                       |

## Measurement Data

| Test channel | 20dB bandwidth(MHz) | Result |
|--------------|---------------------|--------|
| Lowest       | 0.5260              | Pass   |
| Middle       | 0.5264              | Pass   |
| Highest      | 0.5263              | Pass   |

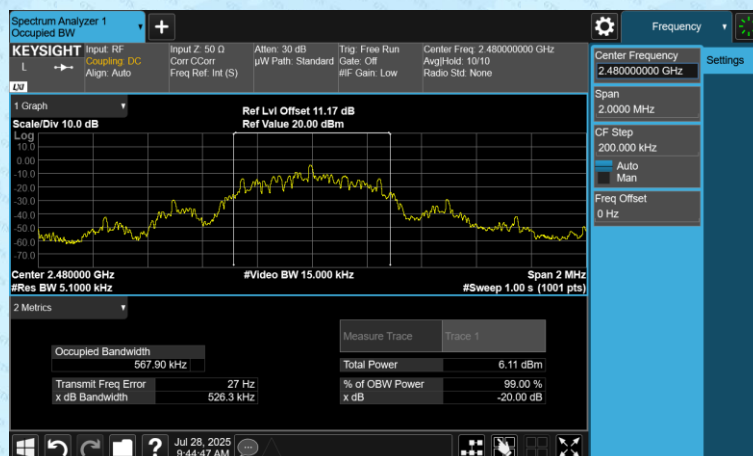
Test plot as follows:



Lowest channel



Middle channel



Highest channel

## 8 Test Setup Photo

Reference to the **appendix I** for details.

## 9 EUT Constructional Details

Reference to the **appendix II** for details.

-----End-----