

# TEST REPORT

**Applicant:** Shantou Globalwin Intelligent Technology Co., Ltd.

**Address of Applicant:** Room 133, Block 7-14, Kaide Garden, East jinsha Rd, Longhu District, Shantou City, Guangdong province, China

**Manufacturer:** Shantou Globalwin Intelligent Technology Co., Ltd.

**Address of Manufacturer:** Room 133, Block 7-14, Kaide Garden, East jinsha Rd, Longhu District, Shantou City, Guangdong province, China

**Equipment Under Test (EUT)**

Product Name: Remote Control Aircraft Series

Model No.: See section 5.1

**FCC ID:** 2A9NS-GD95PROMAX

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

**Date of sample receipt:** May 07, 2024

**Date of Test:** May 08-27, 2024

**Date of report issued:** May 27, 2024

**Test Result :** PASS \*

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

Authorized Signature:



**Robinson Luo**

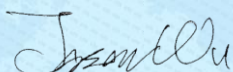
**Laboratory Manager**

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

## 2 Version

| Version No. | Date         | Description |
|-------------|--------------|-------------|
| 00          | May 27, 2024 | Original    |
|             |              |             |
|             |              |             |
|             |              |             |
|             |              |             |

Prepared By:

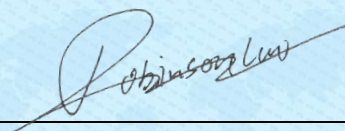


Date:

May 27, 2024

Project Engineer

Check By:



Date:

May 27, 2024

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                | Pass   |
| 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.

### 4.1 Measurement Uncertainty

| Test Item                        | Frequency Range | Measurement Uncertainty | Notes |
|----------------------------------|-----------------|-------------------------|-------|
| Radiated Emission                | 9kHz-30MHz      | 3.1dB                   | (1)   |
| Radiated Emission                | 30MHz-200MHz    | 3.8039dB                | (1)   |
| Radiated Emission                | 200MHz-1GHz     | 3.9679dB                | (1)   |
| Radiated Emission                | 1GHz-18GHz      | 4.29dB                  | (1)   |
| Radiated Emission                | 18GHz-40GHz     | 3.30dB                  | (1)   |
| AC Power Line Conducted Emission | 0.15MHz ~ 30MHz | 3.44dB                  | (1)   |

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

## 5 General Information

### 5.1 General Description of EUT

|                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:                                                                                                                                                                          | Remote Control Aircraft Series                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Model No.:                                                                                                                                                                             | GD01, GD02, GD03, GD04, GD05, GD06, GD07, GD08, GD08 Plus, GD08 Pro, GD08 Max, GD09, GD09 Pro, GD09 Max, GD10, GD10 Plus, GD11, GD11 Pro, GD11 Max, GD12, GD12 Pro, GD13, GD13 Plus, GD13 Pro, GD14, GD14 Pro, GD14 Max, GD15, GD15 Pro, GD15 Max, GD16, GD17, GD17, GD17 Max, GD18, GD18 Plus, GD19, GD20, GD20 Max, GD21, GD21 Pro, GD22, GD22 Pro, GD23, GD23 Pro, GD24, GD24C, GD25, GD25 Plus, GD25 Pro, GD25 Max, GD26, GD27, GD28, GD29, GD30, GD31, GD32, GD33, GD34, GD34 Pro, GD35, GD36, GD37, GD38, GD39, GD39 Pro, GD40, GD41, GD42, GD43, GD44, GD45, GD45 Pro, GD45 Max, GD46, GD47, GD47 Pro, GD48, GD48 Pro, GD49, GD50, GD51, GD52, GD53, GD54, GD55, GD56, GD57, GD58, GD59, GD60, GD61, GD62, GD63, GD64, GD65, GD66, GD67, GD68, GD69, GD70, GD71, GD72, GD73, GD74, GD75, GD76, GD77, GD78, GD79, GD80, GD81, GD82, GD83, GD84, GD85, GD86, GD86 Pro, GD86 Pro Max, GD86 Max, GD87, GD88, GD88 Pro, GD89, GD89-1, GD89-1 Pro, GD89-2, GD89-2 Pro, GD89 Pro, GD89 Pro Plus, GD89 Pro Max, GD89 Max, GD90, GD90 Pro, GD90 Pro Max, GD90 Max, GD91, GD91 Pro, GD91 Pro Max, GD91 Max, GD92, GD92 Pro, GD92 Pro Max, GD92 Max, GD93, GD93 Pro, GD93 Pro Max, GD93 Max, GD94, GD94 Pro, GD94 Pro Max, GD94 Max, GD95, GD95 Pro, GD95 Pro Max, GD95 Max, GD96, GD96 Pro, GD96 Pro Max, GD96 Max, GD97, GD97 Pro, GD97 Pro Max, GD97 Max, GD98, GD98 Pro, GD98 Pro Max, GD98 Max, GD100, GD100 Pro, GD100 Max, 193 Max, 193 Max RTS, 193 Max 2, 193E, 011 Pro, 011 Max, 011 RTS, 017, 017 Max, 018, 018 Max, 019, 019 Max, H857HW, H866HW, H862, H861G, H860, H850H, H859HW, H851, H853H, H831H, H828HW, H827SW, H823HW, H823H, H816HW |
| Test Model No.:                                                                                                                                                                        | GD95 Pro Max                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Remark: All above models are identical in the same PCB layout, interior structure and electrical circuits. The differences are appearance color and model name for commercial purpose. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Serial No.:                                                                                                                                                                            | 6976231960021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Test sample(s) ID:                                                                                                                                                                     | GTS2024050025-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Sample(s) Status                                                                                                                                                                       | Engineered sample                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Operation Frequency:                                                                                                                                                                   | 2405MHz~2475MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Channel Numbers:                                                                                                                                                                       | 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Modulation Type:                                                                                                                                                                       | GFSK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Antenna Type:                                                                                                                                                                          | Integral Antenna                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Antenna gain:                                                                                                                                                                          | 2.99dBi(declare by applicant)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Power supply:                                                                                                                                                                          | DC 3.7V, 500mAh for Li-ion battery<br>The battery is charged via USB DC5V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

Remark:

1. Antenna gain information provided by the customer
2. The relevant information of the sample is provided by the entrusting company, and the laboratory is not responsible for its authenticity.

| Operation Frequency each of channel |                 |         |                 |         |                 |         |                 |
|-------------------------------------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| Channel                             | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 1                                   | 2405            | 19      | 2423            | 37      | 2441            | 55      | 2459            |
| 2                                   | 2406            | 20      | 2424            | 38      | 2442            | 56      | 2460            |
| 3                                   | 2407            | 21      | 2425            | 39      | 2443            | 57      | 2461            |
| 4                                   | 2408            | 22      | 2426            | 40      | 2444            | 58      | 2462            |
| 5                                   | 2409            | 23      | 2427            | 41      | 2445            | 59      | 2463            |
| 6                                   | 2410            | 24      | 2428            | 42      | 2446            | 60      | 2464            |
| 7                                   | 2411            | 25      | 2429            | 43      | 2447            | 61      | 2465            |
| 8                                   | 2412            | 26      | 2430            | 44      | 2448            | 62      | 2466            |
| 9                                   | 2413            | 27      | 2431            | 45      | 2449            | 63      | 2467            |
| 10                                  | 2414            | 28      | 2432            | 46      | 2450            | 64      | 2468            |
| 11                                  | 2415            | 29      | 2433            | 47      | 2451            | 65      | 2469            |
| 12                                  | 2416            | 30      | 2434            | 48      | 2452            | 66      | 2470            |
| 13                                  | 2417            | 31      | 2435            | 49      | 2453            | 67      | 2471            |
| 14                                  | 2418            | 32      | 2436            | 50      | 2454            | 68      | 2472            |
| 15                                  | 2419            | 33      | 2437            | 51      | 2455            | 69      | 2473            |
| 16                                  | 2420            | 34      | 2438            | 52      | 2456            | 70      | 2474            |
| 17                                  | 2421            | 35      | 2439            | 53      | 2457            | 71      | 2475            |
| 18                                  | 2422            | 36      | 2440            | 54      | 2458            |         |                 |

The test frequencies are below:

| Channel             | Frequency |
|---------------------|-----------|
| The lowest channel  | 2405MHz   |
| The middle channel  | 2440MHz   |
| The Highest channel | 2475MHz   |

## 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 and defined as follows:

| Axis                   | X     | Y     | Z     |
|------------------------|-------|-------|-------|
| Field Strength(dBuV/m) | 92.51 | 93.74 | 91.47 |

## 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        | June 23, 2021       | June 22, 2024           |
| 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        | April 11, 2024      | April 10, 2025          |
| 4                  | BiConiLog Antenna                   | SCHWARZBECK<br>MESS-ELEKTRONIK | VULB9168              | GTS640        | March 19, 2023      | March 18, 2025          |
| 5                  | Double -ridged waveguide horn       | SCHWARZBECK<br>MESS-ELEKTRONIK | BBHA 9120 D           | GTS208        | April 17, 2023      | April 16, 2025          |
| 6                  | EMI Test Software                   | AUDIX                          | E3                    | N/A           | N/A                 | N/A                     |
| 7                  | Wideband Radio Communication Tester | Rohde & Schwarz                | CMW500                | GTS575        | April 11, 2024      | April 10, 2025          |
| 8                  | Loop Antenna                        | ZHINAN                         | ZN30900A              | GTS534        | Nov. 13, 2023       | Nov.12, 2024            |
| 9                  | Broadband Preamplifier              | SCHWARZBECK                    | BBV9718               | GTS535        | April 11, 2024      | April 10, 2025          |
| 10                 | Amplifier(1GHz-26.5GHz)             | HP                             | 8449B                 | GTS601        | April 11, 2024      | April 10, 2025          |
| 11                 | Horn Antenna (18-26.5GHz)           | /                              | UG-598A/U             | GTS664        | Oct. 29, 2023       | Oct. 28, 2024           |
| 12                 | Horn Antenna (26.5-40GHz)           | A.H Systems                    | SAS-573               | GTS665        | Oct. 29, 2023       | Oct. 28, 2024           |
| 13                 | FSV·Signal Analyzer (10Hz-40GHz)    | Keysight                       | FSV-40-N              | GTS666        | March 12, 2024      | March 11, 2025          |
| 14                 | Amplifier                           | /                              | LNA-1000-30S          | GTS650        | April 11, 2024      | April 10, 2025          |
| 15                 | CDNE M2+M3-16A                      | HCT                            | 30MHz-300MHz          | GTS692        | Nov. 08, 2023       | Nov.07, 2024            |
| 16                 | Wideband Amplifier                  | /                              | WDA-01004000-15P35    | GTS602        | April 11, 2024      | April 10, 2025          |
| 17                 | Thermo meter                        | JINCHUANG                      | GSP-8A                | GTS643        | April 18, 2024      | April 17, 2025          |
| 18                 | RE cable 1                          | GTS                            | N/A                   | GTS675        | July 31. 2023       | July 30. 2024           |
| 19                 | RE cable 2                          | GTS                            | N/A                   | GTS676        | July 31. 2023       | July 30. 2024           |
| 20                 | RE cable 3                          | GTS                            | N/A                   | GTS677        | July 31. 2023       | July 30. 2024           |
| 21                 | RE cable 4                          | GTS                            | N/A                   | GTS678        | July 31. 2023       | July 30. 2024           |
| 22                 | RE cable 5                          | GTS                            | N/A                   | GTS679        | July 31. 2023       | July 30. 2024           |
| 23                 | RE cable 6                          | GTS                            | N/A                   | GTS680        | July 31. 2023       | July 30. 2024           |
| 24                 | RE cable 7                          | GTS                            | N/A                   | GTS681        | July 31. 2023       | July 30. 2024           |
| 25                 | RE cable 8                          | GTS                            | N/A                   | GTS682        | July 31. 2023       | July 30. 2024           |

| Conducted Emission |                      |                         |                      |               |                     |                         |
|--------------------|----------------------|-------------------------|----------------------|---------------|---------------------|-------------------------|
| Item               | Test Equipment       | Manufacturer            | Model No.            | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1                  | Shielding Room       | ZhongYu Electron        | 7.3(L)x3.1(W)x2.9(H) | GTS252        | July 12, 2022       | July 11, 2027           |
| 2                  | EMI Test Receiver    | R&S                     | ESCI 7               | GTS552        | April 11, 2024      | April 10, 2025          |
| 3                  | LISN                 | ROHDE & SCHWARZ         | ENV216               | GTS226        | April 11, 2024      | April 10, 2025          |
| 4                  | Coaxial Cable        | GTS                     | N/A                  | GTS227        | N/A                 | N/A                     |
| 5                  | EMI Test Software    | AUDIX                   | E3                   | N/A           | N/A                 | N/A                     |
| 6                  | Thermo meter         | JINCHUANG               | GSP-8A               | GTS642        | April 18, 2024      | April 17, 2025          |
| 7                  | Absorbing clamp      | Elektronik-Feinmechanik | MDS21                | GTS229        | April 11, 2024      | April 10, 2025          |
| 8                  | ISN                  | SCHWARZBECK             | NTFM 8158            | GTS565        | April 11, 2024      | April 10, 2025          |
| 9                  | High voltage probe   | SCHWARZBECK             | TK9420               | GTS537        | April 11, 2024      | April 10, 2025          |
| 10                 | Antenna end assembly | Weinschel               | 1870A                | GTS560        | April 11, 2024      | April 10, 2025          |

| RF Conducted Test: |                                                |              |                  |            |                     |                         |
|--------------------|------------------------------------------------|--------------|------------------|------------|---------------------|-------------------------|
| Item               | Test Equipment                                 | Manufacturer | Model No.        | Serial No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1                  | MXA Signal Analyzer                            | Agilent      | N9020A           | GTS566     | April 11, 2024      | April 10, 2025          |
| 2                  | EMI Test Receiver                              | R&S          | ESCI 7           | GTS552     | April 11, 2024      | April 10, 2025          |
| 3                  | PSA Series Spectrum Analyzer                   | Agilent      | E4440A           | GTS536     | April 11, 2024      | April 10, 2025          |
| 4                  | MXG vector Signal Generator                    | Agilent      | N5182A           | GTS567     | April 11, 2024      | April 10, 2025          |
| 5                  | ESG Analog Signal Generator                    | Agilent      | E4428C           | GTS568     | April 11, 2024      | April 10, 2025          |
| 6                  | USB RF Power Sensor                            | DARE         | RPR3006W         | GTS569     | April 11, 2024      | April 10, 2025          |
| 7                  | RF Switch Box                                  | Shongyi      | RFSW3003328      | GTS571     | April 11, 2024      | April 10, 2025          |
| 8                  | Programmable Constant Temp & Humi Test Chamber | WEWON        | WHTH-150L-40-880 | GTS572     | April 11, 2024      | April 10, 2025          |
| 9                  | Thermo meter                                   | JINCHUANG    | GSP-8A           | GTS641     | April 18, 2024      | April 17, 2025          |

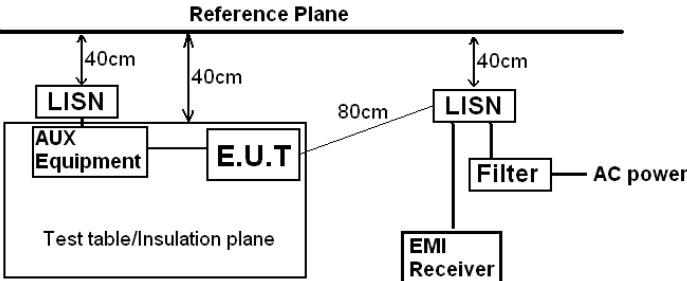
| General used equipment: |                |              |           |               |                     |                         |
|-------------------------|----------------|--------------|-----------|---------------|---------------------|-------------------------|
| Item                    | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1                       | Barometer      | KUMAO        | SF132     | GTS647        | April 18, 2024      | April 17, 2025          |

## 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>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.<br><b>15.247(c) (1)(i) requirement:</b><br>(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi. |                             |
| <b>EUT Antenna:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |
| The antenna is integral antenna, reference to the appendix II for details.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                             |

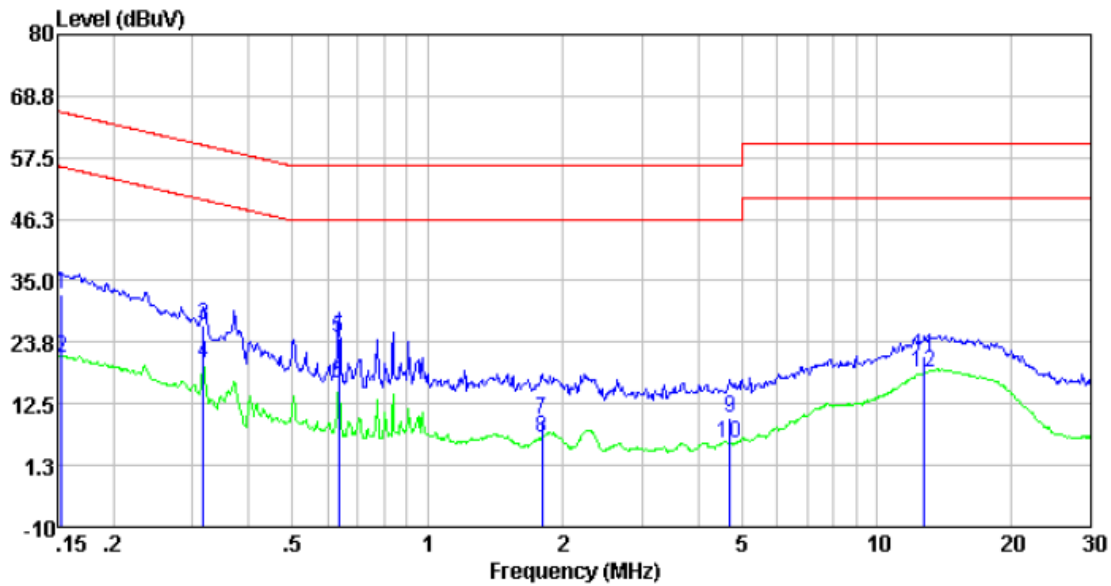
## 7.2 Conducted Emissions

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |              |     |           |          |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------|-----|-----------|----------|
| Test Requirement:                                | FCC Part15 C Section 15.207                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |              |     |           |          |
| Test Method:                                     | ANSI C63.10:2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |              |     |           |          |
| Test Frequency Range:                            | 150KHz to 30MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |              |     |           |          |
| Receiver setup:                                  | RBW=9KHz, VBW=30KHz, Sweep time=auto                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |              |     |           |          |
| Limit:                                           | Frequency range (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | Limit (dBuV) |     |           |          |
|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       | Quasi-peak   |     | Average   |          |
|                                                  | 0.15-0.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       | 66 to 56*    |     | 56 to 46* |          |
|                                                  | 0.5-5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       | 56           |     | 46        |          |
|                                                  | 5-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       | 60           |     | 50        |          |
| * Decreases with the logarithm of the frequency. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |              |     |           |          |
| Test setup:                                      | <div><p style="text-align: center;"><b>Reference Plane</b></p><p>Remark<br/>E.U.T: Equipment Under Test<br/>LISN: Line Impedance Stabilization Network<br/>Test table height=0.8m</p></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |              |     |           |          |
| Test procedure:                                  | <div><ol style="list-style-type: none"><li>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</li><li>2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).</li><li>3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.</li></ol></div> |       |              |     |           |          |
| 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:                                    | AC 120V, 60Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       |              |     |           |          |
| Test results:                                    | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |              |     |           |          |

## Measurement data

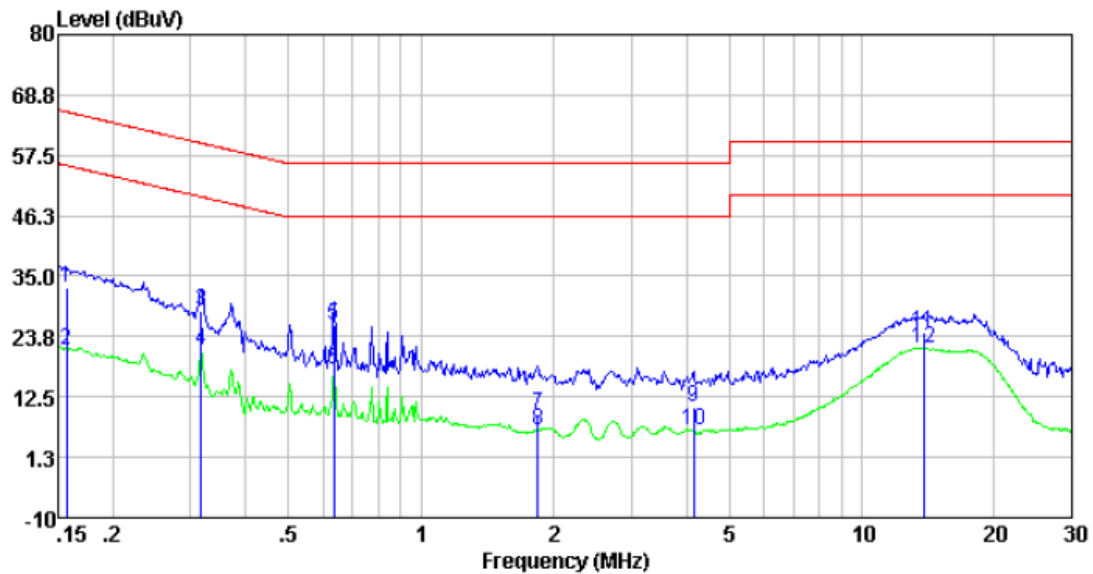
Pre-scan all test modes, found worst case at 2405MHz, and so only show the test result of it.

Line:



| Freq  | Reading level | LISN/ISN factor | Cable loss | Level | Limit level | Over limit | Remark  |
|-------|---------------|-----------------|------------|-------|-------------|------------|---------|
| MHz   | dBuV          | dB              | dB         | dBuV  | dBuV        | dB         |         |
| 0.15  | 22.96         | 9.56            | 0.01       | 32.53 | 65.82       | -33.29     | QP      |
| 0.15  | 11.39         | 9.56            | 0.01       | 20.96 | 55.82       | -34.86     | Average |
| 0.32  | 17.45         | 9.49            | 0.01       | 26.95 | 59.80       | -32.85     | QP      |
| 0.32  | 10.28         | 9.49            | 0.01       | 19.78 | 49.80       | -30.02     | Average |
| 0.63  | 15.04         | 9.50            | 0.02       | 24.56 | 56.00       | -31.44     | QP      |
| 0.63  | 6.70          | 9.50            | 0.02       | 16.22 | 46.00       | -29.78     | Average |
| 1.80  | 0.01          | 9.59            | 0.04       | 9.64  | 56.00       | -46.36     | QP      |
| 1.80  | -3.20         | 9.59            | 0.04       | 6.43  | 46.00       | -39.57     | Average |
| 4.72  | 0.30          | 9.49            | 0.06       | 9.85  | 56.00       | -46.15     | QP      |
| 4.72  | -4.40         | 9.49            | 0.06       | 5.15  | 46.00       | -40.85     | Average |
| 12.78 | 11.64         | 9.47            | 0.14       | 21.25 | 60.00       | -38.75     | QP      |
| 12.78 | 8.61          | 9.47            | 0.14       | 18.22 | 50.00       | -31.78     | Average |

Neutral:

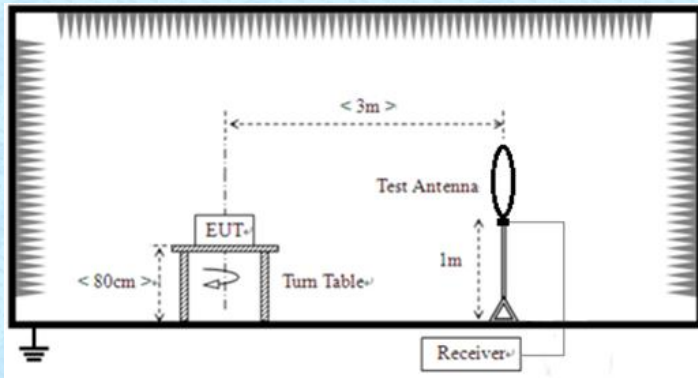


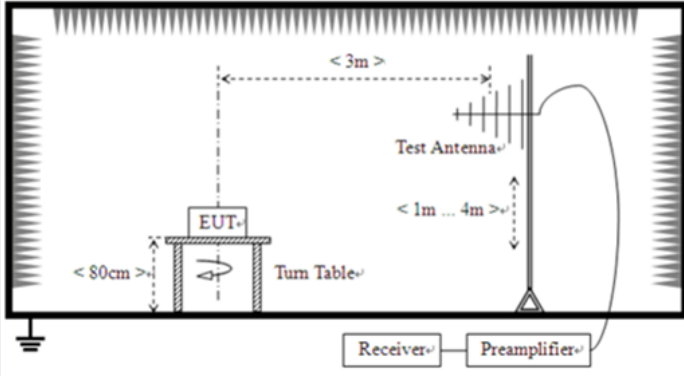
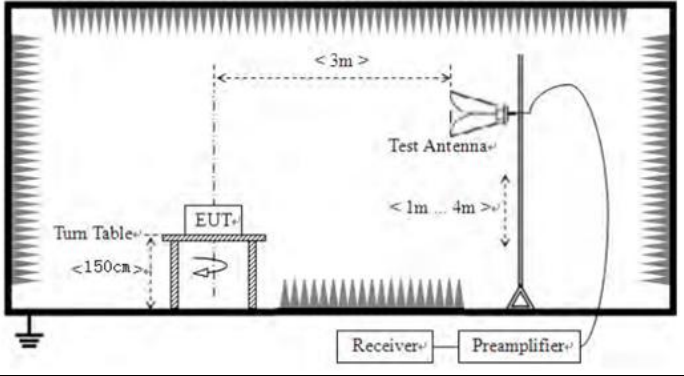
| Freq  | Reading level | LISN/ISN factor | Cable loss | Level | Limit level | Over limit | Remark  |
|-------|---------------|-----------------|------------|-------|-------------|------------|---------|
| MHz   | dBuV          | dB              | dB         | dBuV  | dBuV        | dB         |         |
| 0.16  | 23.24         | 9.55            | 0.01       | 32.80 | 65.65       | -32.85     | QP      |
| 0.16  | 11.69         | 9.55            | 0.01       | 21.25 | 55.65       | -34.40     | Average |
| 0.32  | 18.84         | 9.56            | 0.01       | 28.41 | 59.80       | -31.39     | QP      |
| 0.32  | 11.55         | 9.56            | 0.01       | 21.12 | 49.80       | -28.68     | Average |
| 0.63  | 16.27         | 9.56            | 0.02       | 25.85 | 56.00       | -30.15     | QP      |
| 0.63  | 7.91          | 9.56            | 0.02       | 17.49 | 46.00       | -28.51     | Average |
| 1.84  | -0.21         | 9.55            | 0.04       | 9.38  | 56.00       | -46.62     | QP      |
| 1.84  | -3.39         | 9.55            | 0.04       | 6.20  | 46.00       | -39.80     | Average |
| 4.16  | 0.93          | 9.56            | 0.06       | 10.55 | 56.00       | -45.45     | QP      |
| 4.16  | -3.50         | 9.56            | 0.06       | 6.12  | 46.00       | -39.88     | Average |
| 13.84 | 14.88         | 9.64            | 0.15       | 24.67 | 60.00       | -35.33     | QP      |
| 13.84 | 11.81         | 9.64            | 0.15       | 21.60 | 50.00       | -28.40     | Average |

## Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

### 7.3 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                                                                                                                                                                                                                       |            |                    |        |                  |

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|                 | <div></div> <p>For radiated emissions above 1GHz</p> <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| Test Procedure: | <div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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|

**Measurement data:****7.3.1 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 |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2405.00         | 100.15            | 27.43                 | 4.57            | 38.56                    | 93.59          | 114.00              | -20.41          | Vertical     |
| 2405.00         | 96.86             | 27.43                 | 4.57            | 38.56                    | 90.30          | 114.00              | -23.70          | Horizontal   |
| 2440.00         | 100.20            | 27.55                 | 4.56            | 38.57                    | 93.74          | 114.00              | -20.26          | Vertical     |
| 2440.00         | 97.58             | 27.55                 | 4.56            | 38.57                    | 91.12          | 114.00              | -22.88          | Horizontal   |
| 2475.00         | 91.42             | 27.64                 | 4.55            | 38.58                    | 85.03          | 114.00              | -28.97          | Vertical     |
| 2475.00         | 93.43             | 27.64                 | 4.55            | 38.58                    | 87.04          | 114.00              | -26.96          | 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 |
|-----------------|-------------------|-----------------------|-----------------|--------------------------|----------------|---------------------|-----------------|--------------|
| 2405.00         | 88.71             | 27.43                 | 4.57            | 38.56                    | 82.15          | 94.00               | -11.85          | Vertical     |
| 2405.00         | 84.56             | 27.43                 | 4.57            | 38.56                    | 78.00          | 94.00               | -16.00          | Horizontal   |
| 2440.00         | 89.15             | 27.55                 | 4.56            | 38.57                    | 82.69          | 94.00               | -11.31          | Vertical     |
| 2440.00         | 86.98             | 27.55                 | 4.56            | 38.57                    | 80.52          | 94.00               | -13.48          | Horizontal   |
| 2475.00         | 81.22             | 27.64                 | 4.55            | 38.58                    | 74.83          | 94.00               | -19.17          | Vertical     |
| 2475.00         | 83.13             | 27.64                 | 4.55            | 38.58                    | 76.74          | 94.00               | -17.26          | Horizontal   |

Note: For fundamental frequency , RBW>20dB BW, VBW>=RBW, PK detector for PK value, RMS detector for AV value

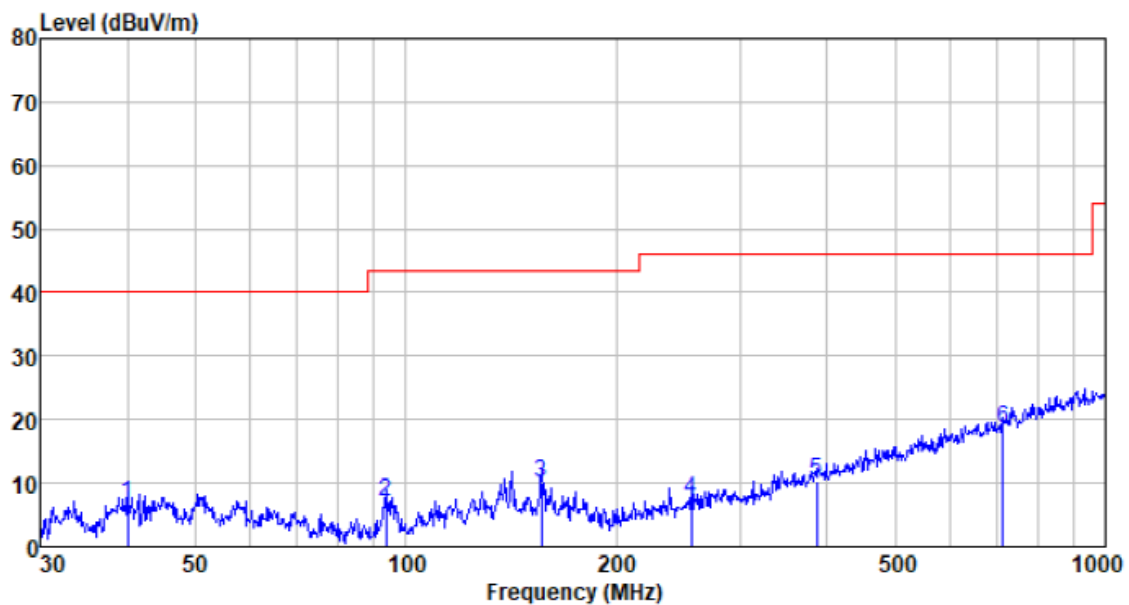
### 7.3.2 Spurious emissions

#### ■ 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.

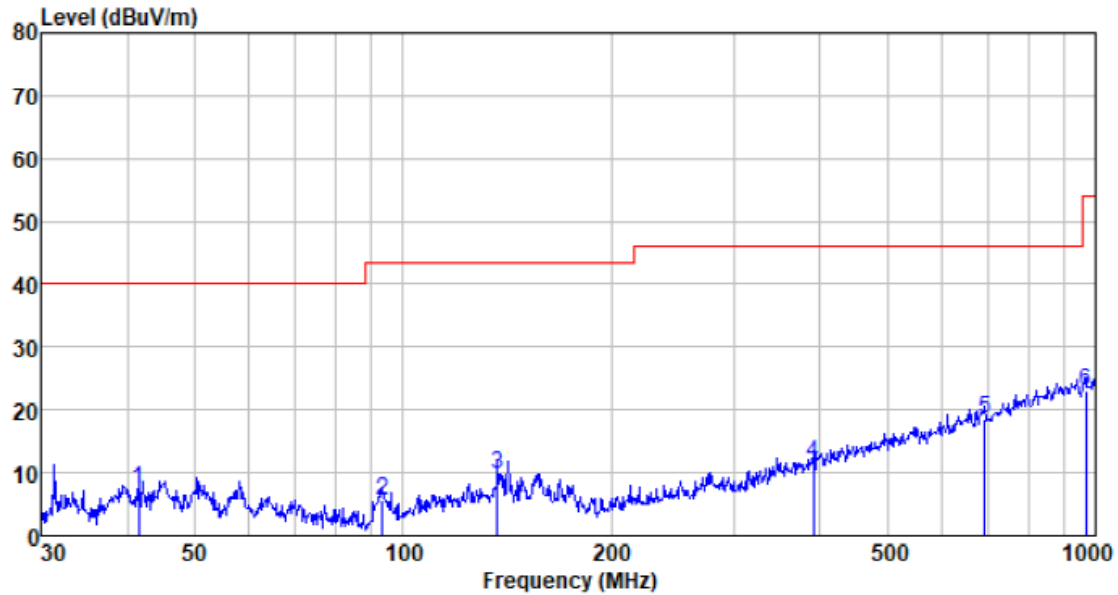
#### ■ Below 1GHz

Pre-scan all test modes, found worst case at 2405MHz, 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 |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 39.994      | 26.22                    | 13.50                     | 0.66                | 33.73                  | 6.65            | 40.00                    | -33.35              | QP     |
| 93.768      | 30.38                    | 9.03                      | 1.14                | 33.60                  | 6.95            | 43.50                    | -36.55              | QP     |
| 156.458     | 29.06                    | 12.57                     | 1.61                | 33.08                  | 10.16           | 43.50                    | -33.34              | QP     |
| 255.623     | 26.58                    | 11.36                     | 2.15                | 32.74                  | 7.35            | 46.00                    | -38.65              | QP     |
| 386.634     | 24.69                    | 15.31                     | 2.79                | 32.35                  | 10.44           | 46.00                    | -35.56              | QP     |
| 714.173     | 24.79                    | 21.09                     | 4.14                | 31.55                  | 18.47           | 46.00                    | -27.53              | QP     |

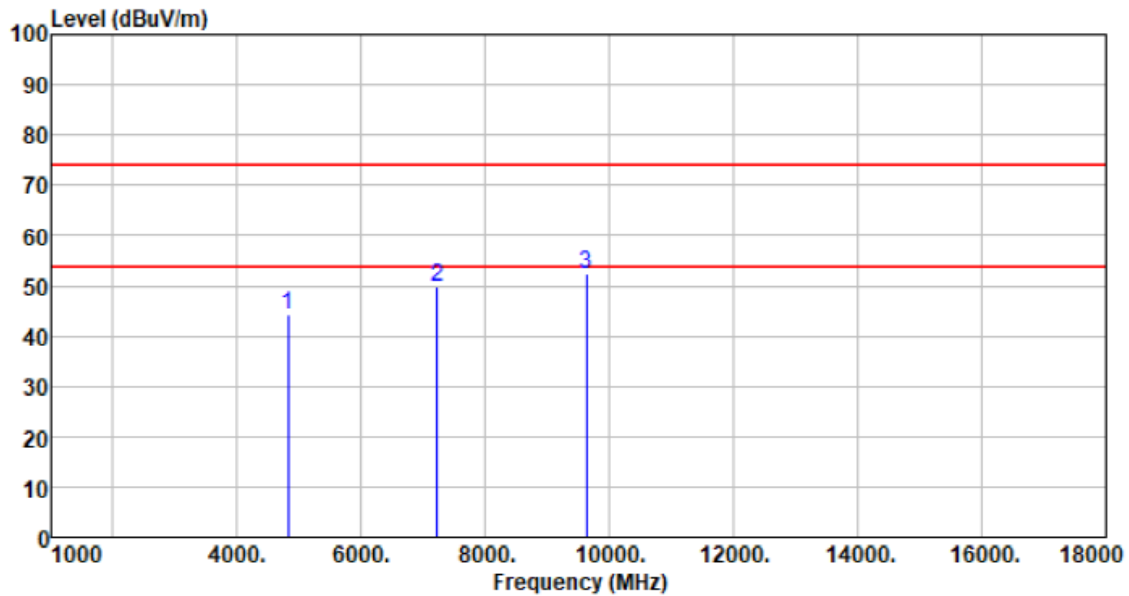
Vertical



| 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 |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 41.567      | 26.92                    | 13.45                     | 0.68                | 33.72                  | 7.33            | 40.00                    | -32.67              | QP     |
| 93.440      | 29.06                    | 8.99                      | 1.14                | 33.60                  | 5.59            | 43.50                    | -37.91              | QP     |
| 136.939     | 29.41                    | 12.23                     | 1.48                | 33.24                  | 9.88            | 43.50                    | -33.62              | QP     |
| 390.723     | 25.58                    | 15.43                     | 2.81                | 32.34                  | 11.48           | 46.00                    | -34.52              | QP     |
| 691.987     | 25.52                    | 20.69                     | 4.06                | 31.61                  | 18.66           | 46.00                    | -27.34              | QP     |
| 968.934     | 24.29                    | 24.46                     | 5.11                | 30.78                  | 23.08           | 54.00                    | -30.92              | QP     |

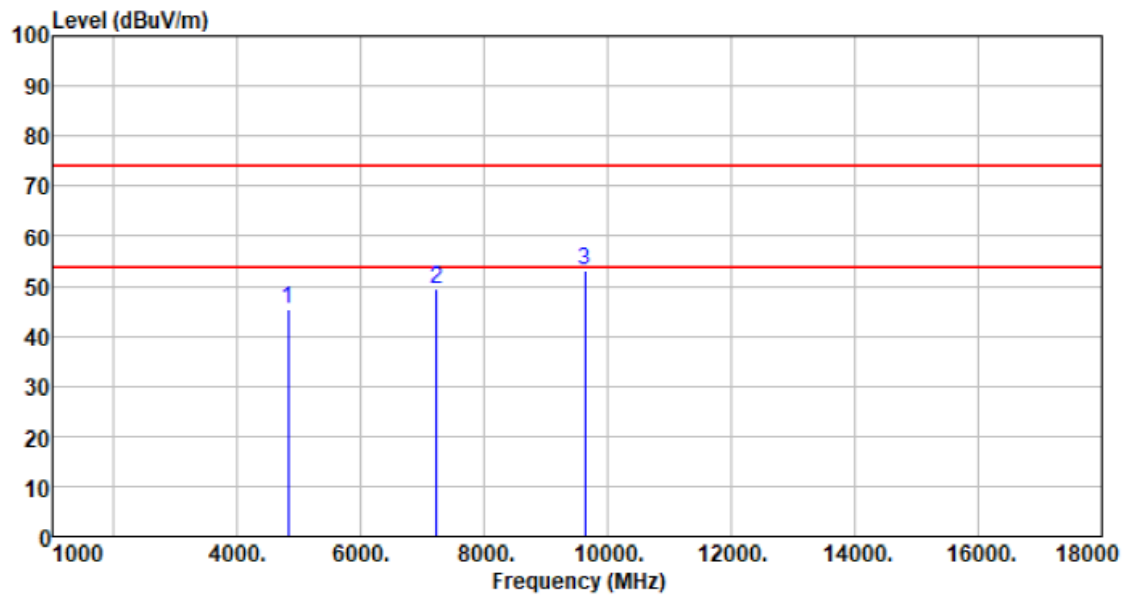
## ■ Above 1GHz

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



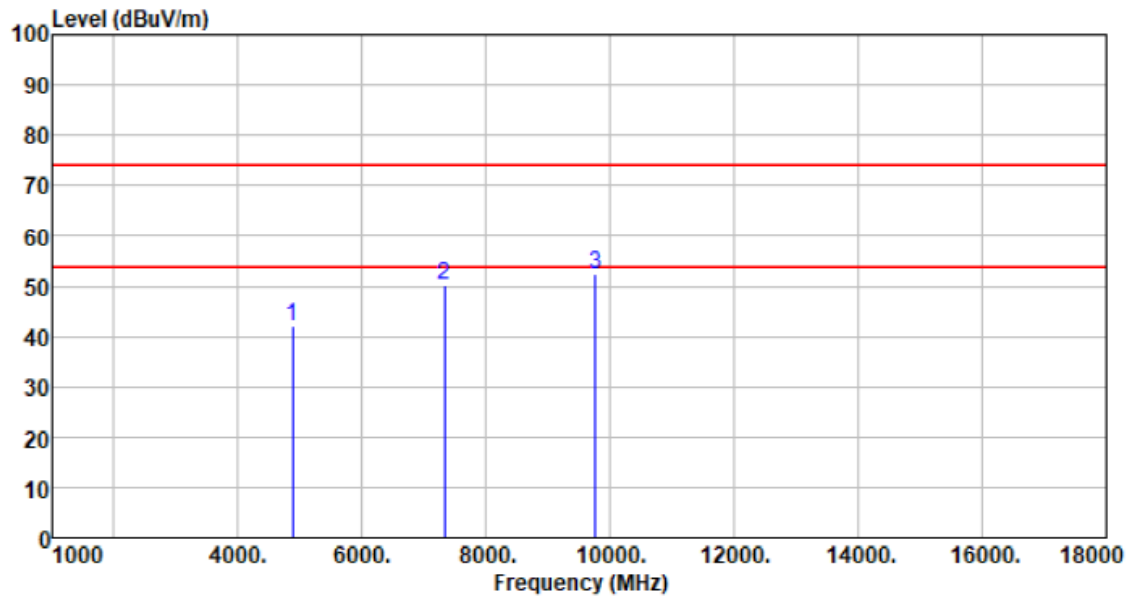
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 4810.000    | 44.31                    | 31.07                     | 7.33                | 38.36                  | 44.35           | 74.00                    | -29.65              | Peak   |
| 7215.000    | 43.45                    | 35.93                     | 9.47                | 38.96                  | 49.89           | 74.00                    | -24.11              | Peak   |
| 9620.000    | 44.33                    | 37.92                     | 9.99                | 39.69                  | 52.55           | 74.00                    | -21.45              | Peak   |

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



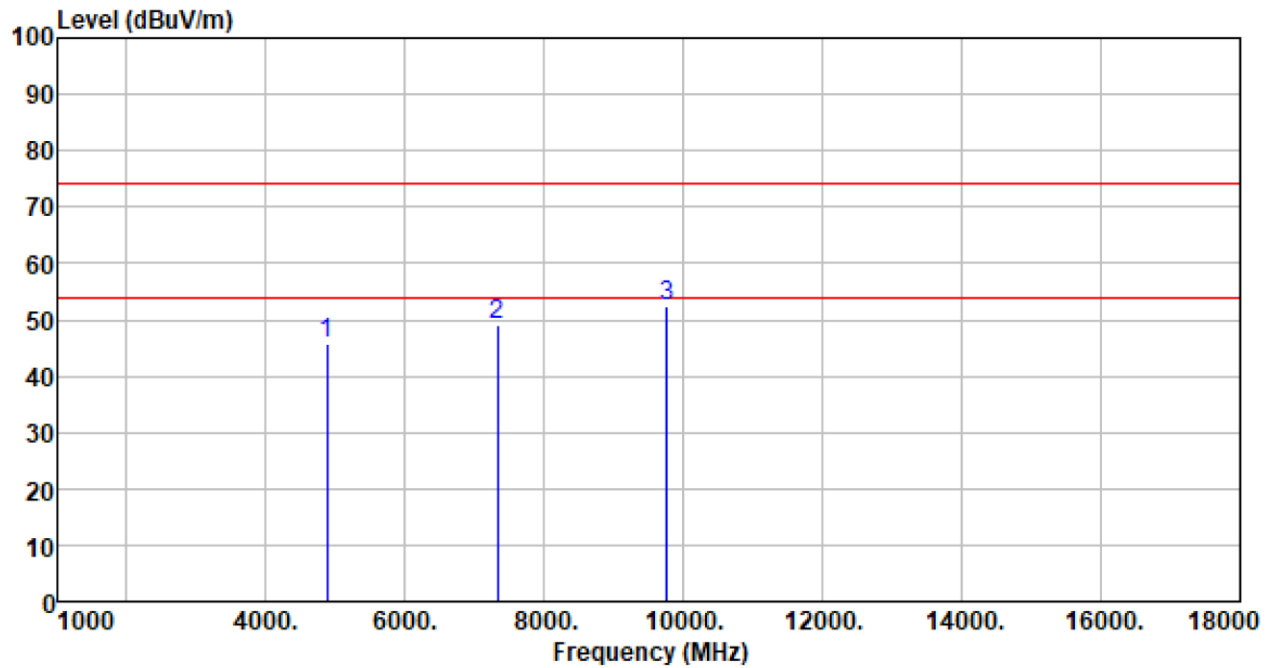
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 4810.000    | 45.49                    | 31.07                     | 7.33                | 38.36                  | 45.53           | 74.00                    | -28.47              | Peak   |
| 7215.000    | 43.18                    | 35.93                     | 9.47                | 38.96                  | 49.62           | 74.00                    | -24.38              | Peak   |
| 9620.000    | 44.82                    | 37.92                     | 9.99                | 39.69                  | 53.04           | 74.00                    | -20.96              | Peak   |

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



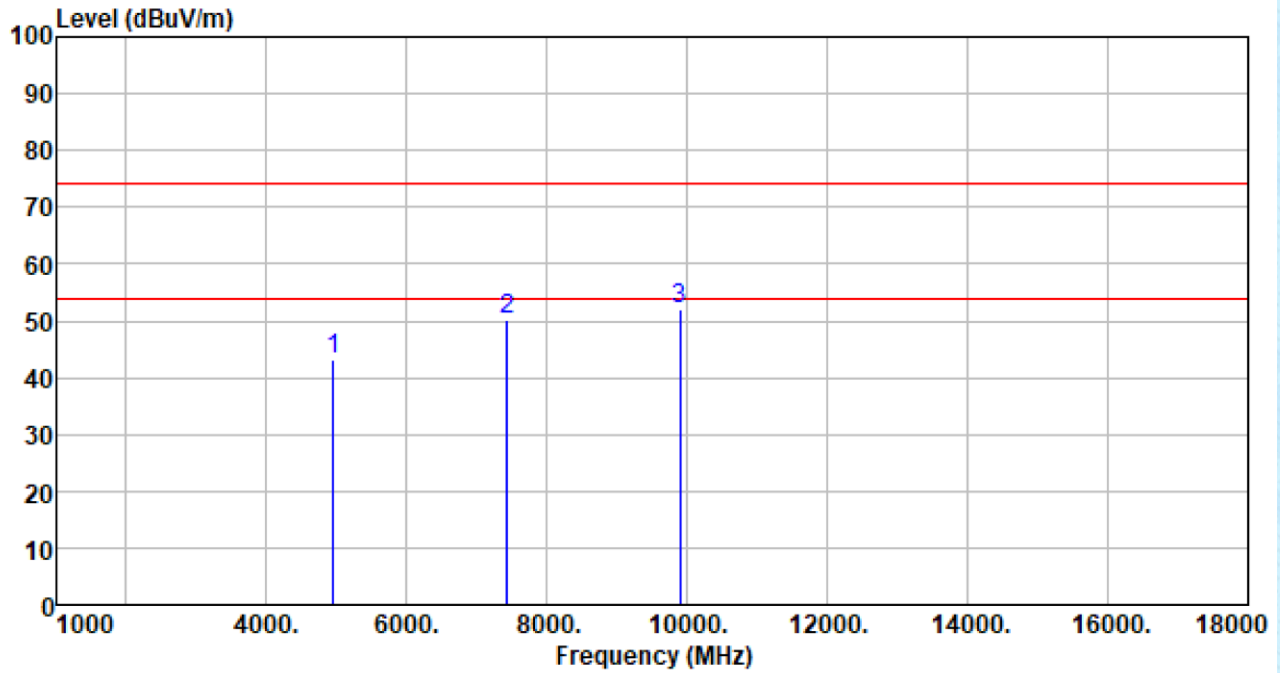
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 4880.000    | 42.23                    | 31.26                     | 7.04                | 38.38                  | 42.15           | 74.00                    | -31.85              | Peak   |
| 7320.000    | 43.83                    | 36.14                     | 9.18                | 39.00                  | 50.15           | 74.00                    | -23.85              | Peak   |
| 9760.000    | 43.78                    | 38.06                     | 10.27               | 39.73                  | 52.38           | 74.00                    | -21.62              | Peak   |

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



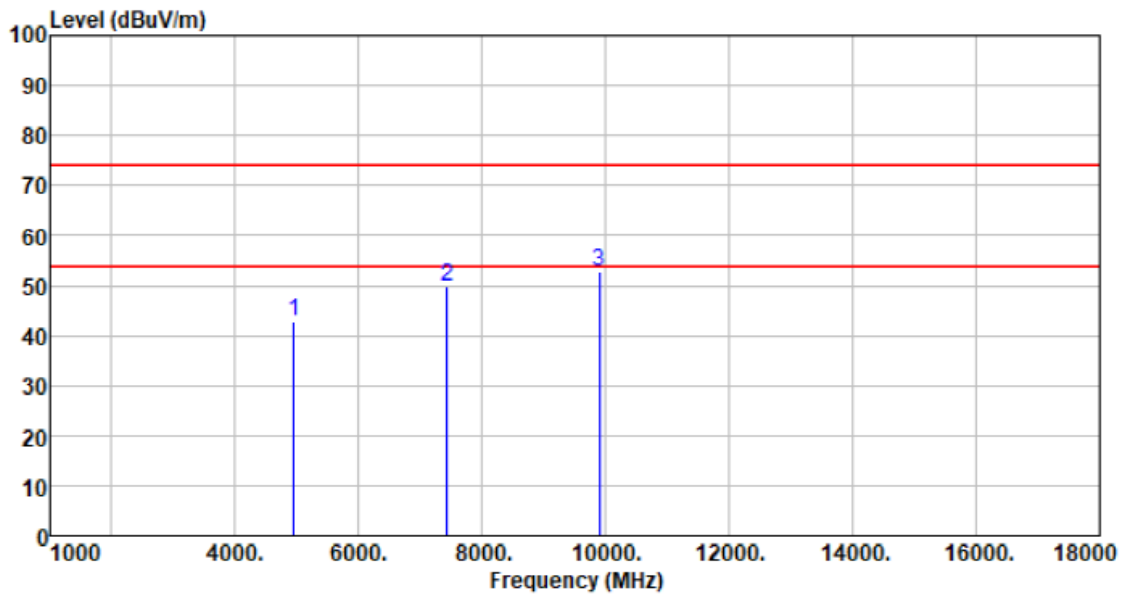
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 4880.000    | 45.83                    | 31.26                     | 7.04                | 38.38                  | 45.75           | 74.00                    | -28.25              | Peak   |
| 7320.000    | 42.93                    | 36.14                     | 9.18                | 39.00                  | 49.25           | 74.00                    | -24.75              | Peak   |
| 9760.000    | 43.91                    | 38.06                     | 10.27               | 39.73                  | 52.51           | 74.00                    | -21.49              | Peak   |

|               |         |               |            |
|---------------|---------|---------------|------------|
| Test channel: | Highest | Polarization: | 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 |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 4950.000    | 43.53                    | 31.46                     | 6.75                | 38.39                  | 43.35           | 74.00                    | -30.65              | Peak   |
| 7425.000    | 43.76                    | 36.35                     | 9.00                | 39.03                  | 50.08           | 74.00                    | -23.92              | Peak   |
| 9900.000    | 43.52                    | 38.20                     | 10.12               | 39.77                  | 52.07           | 74.00                    | -21.93              | Peak   |

|               |         |               |          |
|---------------|---------|---------------|----------|
| Test channel: | Highest | Polarization: | 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 |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|--------|
| 4950.000    | 42.89                    | 31.46                     | 6.75                | 38.39                  | 42.71           | 74.00                    | -31.29              | Peak   |
| 7425.000    | 43.35                    | 36.35                     | 9.00                | 39.03                  | 49.67           | 74.00                    | -24.33              | Peak   |
| 9900.000    | 44.20                    | 38.20                     | 10.12               | 39.77                  | 52.75           | 74.00                    | -21.25              | Peak   |

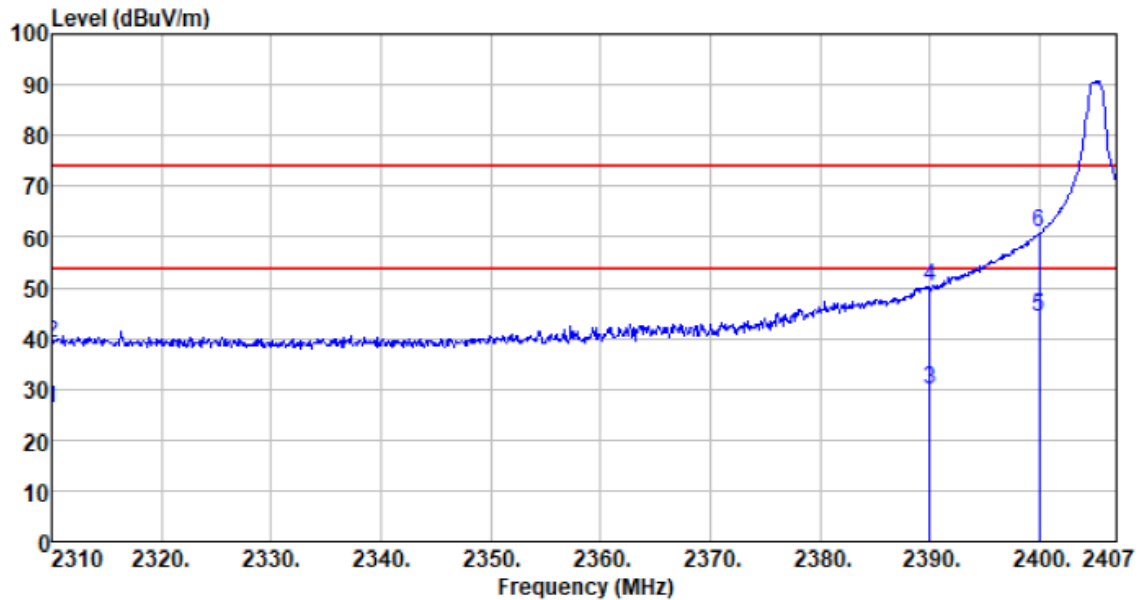
**Remarks:**

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. For above 18GHz, no emission found.
4. 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.

### 7.3.3 Bandedge emissions

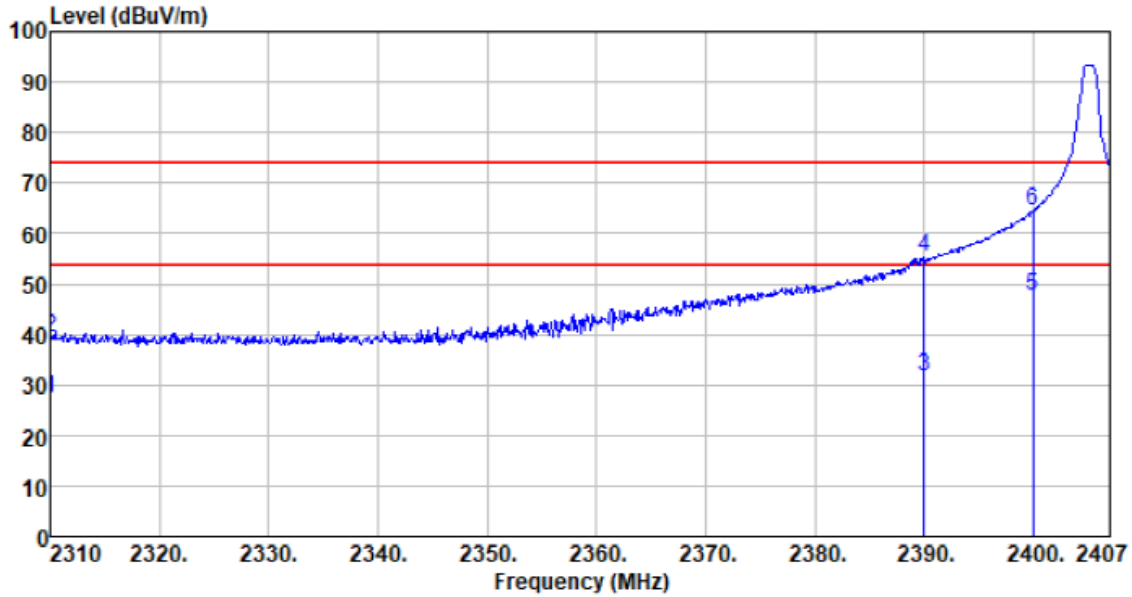
All of the restriction bands were tested, and only the data of worst case was exhibited.

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



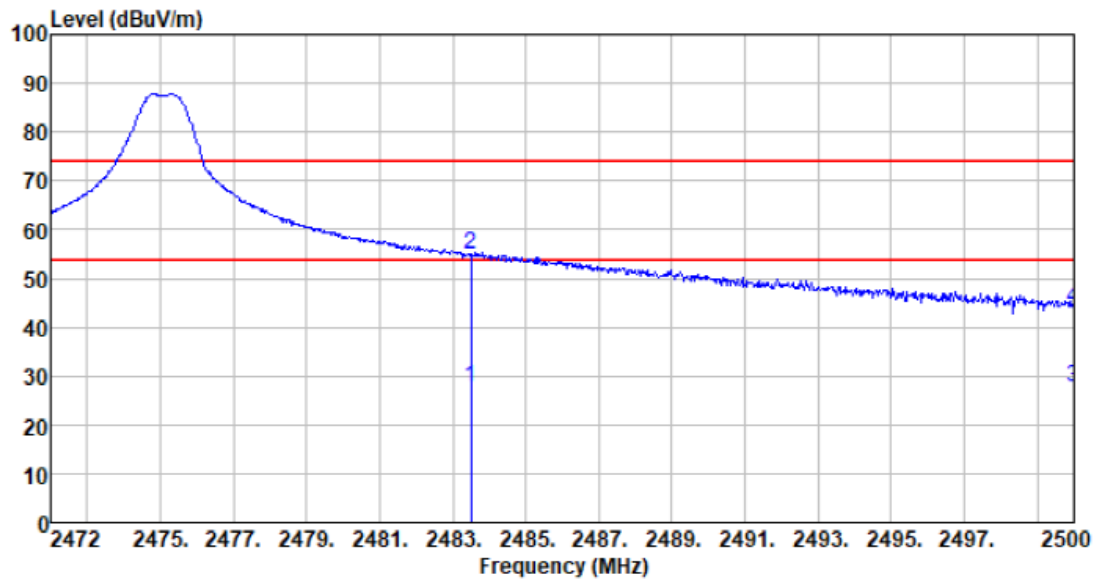
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 2310.000    | 32.95                    | 27.17                     | 4.60                | 38.52                  | 26.20           | 54.00                    | -27.80              | Average |
| 2310.000    | 45.95                    | 27.17                     | 4.60                | 38.52                  | 39.20           | 74.00                    | -34.80              | Peak    |
| 2390.000    | 36.69                    | 27.27                     | 4.65                | 38.56                  | 30.05           | 54.00                    | -23.95              | Average |
| 2390.000    | 56.69                    | 27.27                     | 4.65                | 38.56                  | 50.05           | 74.00                    | -23.95              | Peak    |
| 2400.000    | 50.80                    | 27.28                     | 4.66                | 38.56                  | 44.18           | 54.00                    | -9.82               | Average |
| 2400.000    | 67.53                    | 27.28                     | 4.66                | 38.56                  | 60.91           | 74.00                    | -13.09              | Peak    |

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



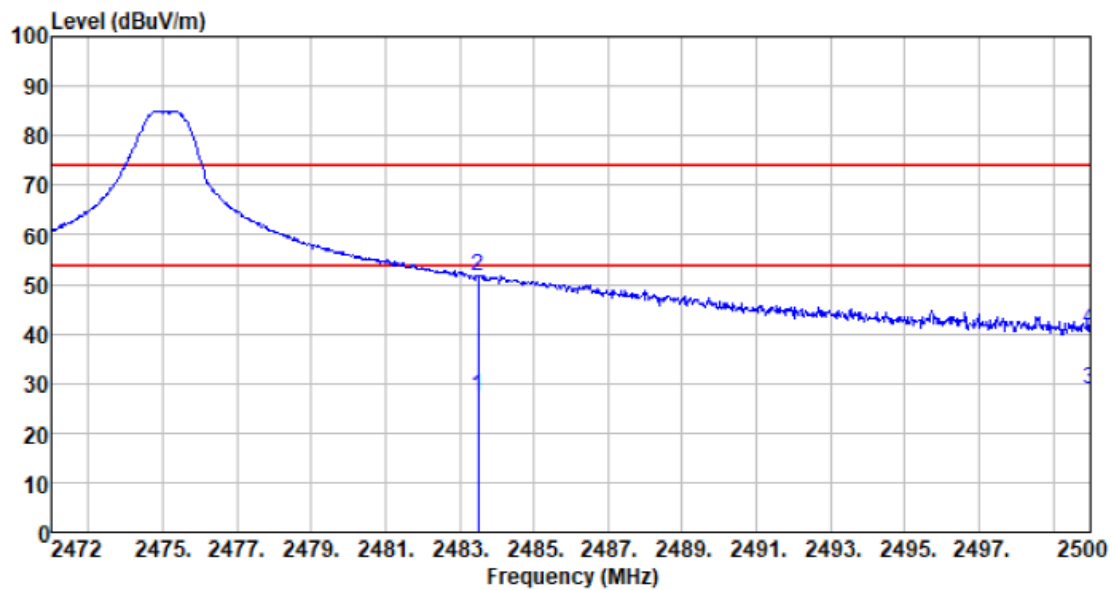
| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 2310.000    | 34.19                    | 27.17                     | 4.60                | 38.52                  | 27.44           | 54.00                    | -26.56              | Average |
| 2310.000    | 46.23                    | 27.17                     | 4.60                | 38.52                  | 39.48           | 74.00                    | -34.52              | Peak    |
| 2390.000    | 38.45                    | 27.27                     | 4.65                | 38.56                  | 31.81           | 54.00                    | -22.19              | Average |
| 2390.000    | 62.09                    | 27.27                     | 4.65                | 38.56                  | 55.45           | 74.00                    | -18.55              | Peak    |
| 2400.000    | 54.29                    | 27.28                     | 4.66                | 38.56                  | 47.67           | 54.00                    | -6.33               | Average |
| 2400.000    | 71.16                    | 27.28                     | 4.66                | 38.56                  | 64.54           | 74.00                    | -9.46               | Peak    |

|               |         |               |            |
|---------------|---------|---------------|------------|
| Test channel: | Highest | Polarization: | 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  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 2483.500    | 34.52                    | 27.38                     | 4.52                | 38.59                  | 27.83           | 54.00                    | -26.17              | Average |
| 2483.500    | 61.85                    | 27.38                     | 4.52                | 38.59                  | 55.16           | 74.00                    | -18.84              | Peak    |
| 2500.000    | 34.51                    | 27.40                     | 4.49                | 38.60                  | 27.80           | 54.00                    | -26.20              | Average |
| 2500.000    | 50.65                    | 27.40                     | 4.49                | 38.60                  | 43.94           | 74.00                    | -30.06              | Peak    |

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

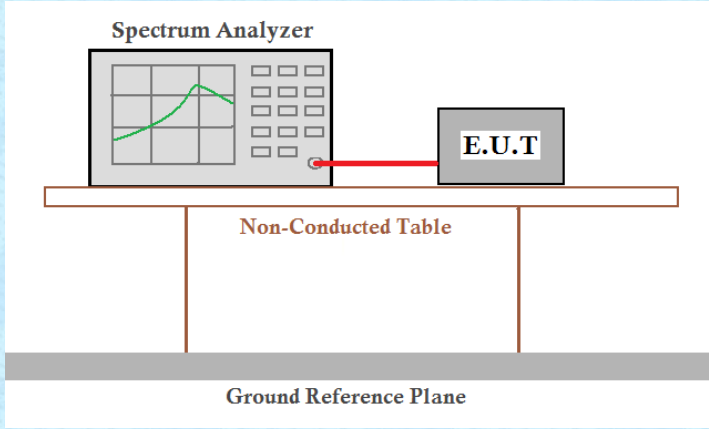


| Freq<br>MHz | Reading<br>level<br>dBuV | Antenna<br>factor<br>dB/m | Cable<br>loss<br>dB | Preamp<br>factor<br>dB | level<br>dBuV/m | Limit<br>level<br>dBuV/m | Over<br>limit<br>dB | Remark  |
|-------------|--------------------------|---------------------------|---------------------|------------------------|-----------------|--------------------------|---------------------|---------|
| 2483.500    | 34.00                    | 27.38                     | 4.52                | 38.59                  | 27.31           | 54.00                    | -26.69              | Average |
| 2483.500    | 58.19                    | 27.38                     | 4.52                | 38.59                  | 51.50           | 74.00                    | -22.50              | Peak    |
| 2500.000    | 35.41                    | 27.40                     | 4.49                | 38.60                  | 28.70           | 54.00                    | -25.30              | Average |
| 2500.000    | 47.57                    | 27.40                     | 4.49                | 38.60                  | 40.86           | 74.00                    | -33.14              | Peak    |

## Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. For above 18GHz, no emission found

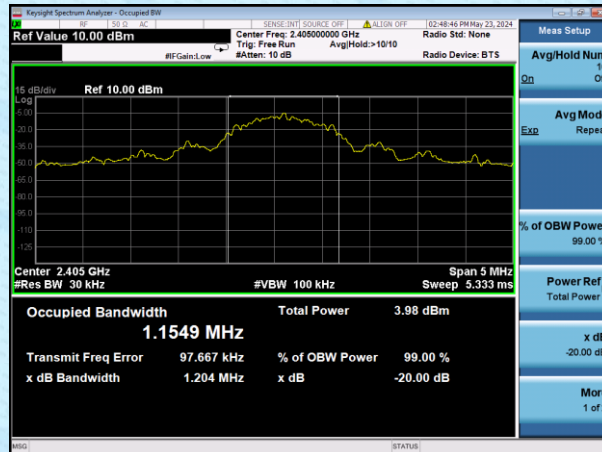
## 7.4 20dB Occupy Bandwidth

|                   |                                                                                                                                                                                                                                                                                                                                                            |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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       | 1.204               | Pass   |
| Middle       | 1.209               | Pass   |
| Highest      | 1.210               | Pass   |

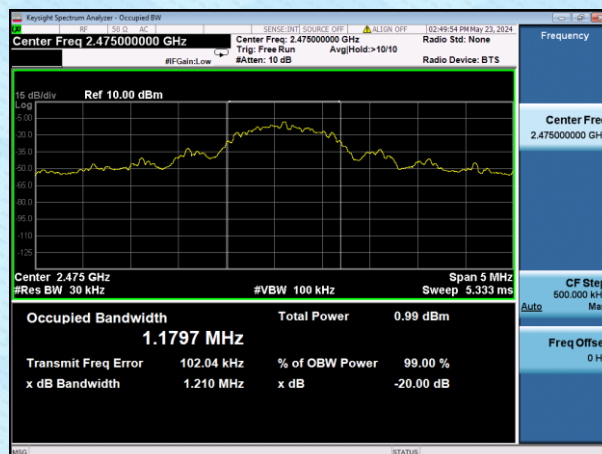
Test plot as follows:



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-----