# RF TEST REPORT

## FCC ID:2BOM4-YIHAOREADER

| | |
|---|---|
| Test Report No……..: | RF250403002-01-001 |
| Product(s) Name……...: | Proxmark3 |
| Model(s)……..: | Proxmark3 |
| Trade Mark……....: | Anruhoo |
| Applicant……..…: | Shenzhen Yihao Technology Co., Ltd. |
| Address……..…...: | No. 101, No. 34, Education South Road, Pingdi Street, Longgang District, Shenzhen City, Guangdong Province, China |
| Receipt Date……..: | 2025.04.08 |
| Test Date……....: | 2025.04.09~2025.04.24 |
| Issued Date……..…: | 2025.04.27 |
| Standards……..: | 47 CFR FCC Part 15, Subpart C; ANSI C63.10:2013 |
| Testing Laboratory……: | Shenzhen Haiyun Standard Technical Co., Ltd. |

| Prepared By: | Checked By: | Approved By: | |
|---|---|---|---|
| Jason Huang | Black Ding | Tim Zhang | Shenzhen Haiyun Standard Technical Co., Ltd. HAIYUN Report Seal |
| Jason huang | Black Ding | Tim.zhang | |

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# History of this test report

Original Report Issue Date: 2025.04.27

● No additional attachment

○ Additional attachments were issued following record

| Attachment No. | Issue Date | Description |
|---|---|---|
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# 1. General Information

## 1.1 Applicant

**Shenzhen Yihao Technology Co., Ltd.**

No. 101, No. 34, Education South Road, Pingdi Street, Longgang District, Shenzhen City, Guangdong Province, China

## 1.2 Manufacturer

**Shenzhen Yihao Technology Co., Ltd.**

No. 101, No. 34, Education South Road, Pingdi Street, Longgang District, Shenzhen City, Guangdong Province, China

## 1.3 Basic Description of Equipment Under Test

| | |
|---|---|
| Test sample no. | POC250403002-S001 |
| Product Name | Proxmark3 |
| Model Name | Proxmark3 |
| Trademark | Anruhoo |
| Power supply: | DC 5V from adapter |
| Modulation type | ASK |
| Operating frequency | 125KHz |
| Antenna type | PCB Antenna |
| Antenna Gain | 0 dBi |

## 1.4 Application of Standard

47 CFR FCC Part 15, Subpart C and ANSI C63.10:2013

# 2. Summary of Test Results

## 2.1 Summary of Test Items

| 47 CFR FCC Part 15, Subpart C | | |
|---|---|---|
| Test Item | FCC Clause | Results |
| AC Power Conducted Emission | 15.207 | Pass |
| Radiated Emission | 15.209 | Pass |
| Antenna Requirement | 15.203 | Note |
| 20dB Bandwidth | 15.215(c) | Pass |
| Note: Pass: The EUT complies with the essential requirements in the standard. | | |

## 2.2 Special Accessories and Auxiliary Equipment

| Description | Manufacturer | Model | S/N |
|---|---|---|---|
| AC/DC ADAPTER | SUGARCUBE | ATP-48005000 | / |
| DC source | Agilent | E3642A | MY52410016 |

## 2.3 Test Condition

| Applicable to | Environmental conditions | Input Power | Tested by |
|---|---|---|---|
| AC Power Conducted Emission | 24.6°C, 54 % RH | AC 120V, 60Hz | Freedom Zhuo |
| Radiated Emission | 24.2°C, 51 % RH | AC 120V, 60Hz | Freedom Zhuo |
| 20dB Bandwidth | 24.2°C, 53 % RH | DC 5V | Albert Fan |

Note: adapter supply voltage AC 120V/60Hz.

## 2.4 Test Instruments

| No. | Name of Equipment | Manufacturer | Model Number | Serial Number | Inventory No. | Last Calibration | Due Calibration |
|---|---|---|---|---|---|---|---|
| Radiated Emission | | | | | | | |
| 1 | Test receiver | Rohde&Schwarz | ESU | 100184 | JLE011 | 2025/3/1 | 2026/2/28 |
| 2 | Log periodic antenna | Schwarzbeck | VULB 9168 | 1151 | JLE012 | 2025/4/12 | 2026/4/11 |
| 3 | Low frequency amplifier | / | LNA 0920N | 2014 | JLE023 | 2025/3/1 | 2026/2/28 |
| 4 | High frequency amplifier | Schwarzbeck | BBV 9718 | 9718-284 | JLE024 | 2025/3/1 | 2026/2/28 |
| 5 | Horn Antenna | SCHWARZBECK | BBHA 9120 D | 02670 | JLE028 | 2025/4/12 | 2026/4/11 |
| 6 | Temp&Humidity Recorder | Meideshi | JR900 | / | JLE021 | 2025/4/15 | 2026/4/14 |
| 7 | Horn Antenna | SCHWARZBECK | BBHA 9170 | 9170#685 | JLE029 | 2024/7/15 | 2025/7/14 |
| 8 | Loop Antenna | SCHWARZBECK | FMZB1519B | 00029 | JLE030 | 2024/7/15 | 2025/7/14 |
| 9 | Broadband preamplifier | Schwarzbeck | BBV9721 | 9721-019 | JLE025 | 2025/3/1 | 2026/2/28 |
| 10 | Test software | Farad Technology Co., Ltd | EZ-EMC Ver.TW-03A2 | | | | |
| Conducted Emission | | | | | | | |
| 1 | LISN | Rohde&Schwarz | ENV216 | 100075 | JLE002 | 2025/3/1 | 2026/2/28 |
| 2 | ISN | Schwarzbeck | CATE 5 8158 | #171 | JLE003 | 2025/2/21 | 2026/2/20 |
| 3 | ISN | Schwarzbeck | CAT 3 8158 | 00187 | JLE032 | 2025/2/21 | 2026/2/20 |
| 4 | Test receiver | Rohde&Schwarz | ESCI | 100718 | JLE010 | 2025/3/1 | 2026/2/28 |
| 5 | Pulse limiter | Rohde&Schwarz | ESH3-Z2 | 102299 | JLE047 | 2025/3/1 | 2026/2/28 |
| 6 | Temp&Humidity Recorder | Meideshi | JR900 | / | JLE020 | 2025/4/15 | 2026/4/14 |
| 7 | Test software | Farad Technology Co., Ltd | EZ-EMC Ver.TW-03A2 | | | | |
| RF Conducted Emission | | | | | | | |
| 1 | MXA Signal Analyzer | Keysight | N9021B | MY60080169 | JLE050 | 2025/3/1 | 2026/2/28 |

## 2.5 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT.
This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| Uncertainty | |
|---|---|
| Parameter | Uncertainty |
| Occupied Channel Bandwidth | ±102kHz |
| Power Spectral Density | ±0.377dB |
| Conducted Spurious Emission | ±1.328dB |
| RF power conducted | ±0.384dB |
| Conducted emission(9kHz~30MHz) AC main | ±2.68dB |
| Radiated emission(9kHz~30MHz) | ±2.74dB |
| Radiated emission (30MHz～1GHz) | ±4.22dB |
| Radiated emission (1GHz～18GHz) | ±5.06dB |
| Radiated emission (18GHz～40GHz) | ±4.98dB |

## 2.6 Test Location

| | |
|---|---|
| Company: | Shenzhen Haiyun Standard Technical CO., Ltd. |
| Address: | No. 110-113, 115, 116, Block B, Jinyuan Business Building, Bao'an District, Shenzhen, China |
| CNAS Registration Number: | CNAS L18252 |
| CAB identifier | CN0145 |
| A2LA Certificate Number | 6823.01 |
| Telephone: | 0755-26024411 |

# 3. Test Procedure And Results

## 3.1 AC Power Line Conducted Emission

### 3.1.1 Limit

| FREQUENCY (MHz) | Class A (dBuV) | | Class B (dBuV) | |
|---|---|---|---|---|
| | Quasi-peak | Average | Quasi-peak | Average |
| 0.15 ~ 0.50 | 79 | 66 | 66 - 56 | 56 - 46 |
| 0.50 ~ 5.00 | 73 | 60 | 56 | 46 |
| 5.00 ~ 30.0 | 73 | 60 | 60 | 50 |

**Note:**

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

### 3.1.2 Test Procedure

a) The EUT was placed 0.8 m from the horizontal ground plane and 0.4 m from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (AMN). All other support equipment powered from additional AMN. The AMN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

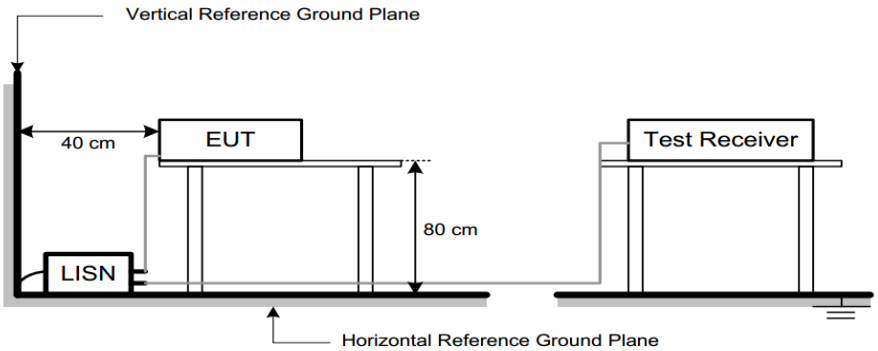
b) Interconnecting cables that hang closer than 0.4 m to the ground plane shall be folded back and forth in the center forming a bundle 0.3 m to 0.4 m long.

c) The frequency range from 150 kHz to 30 MHz was searched.

d) Actual test configuration, please refer to the related Item – EUT Test Photos.

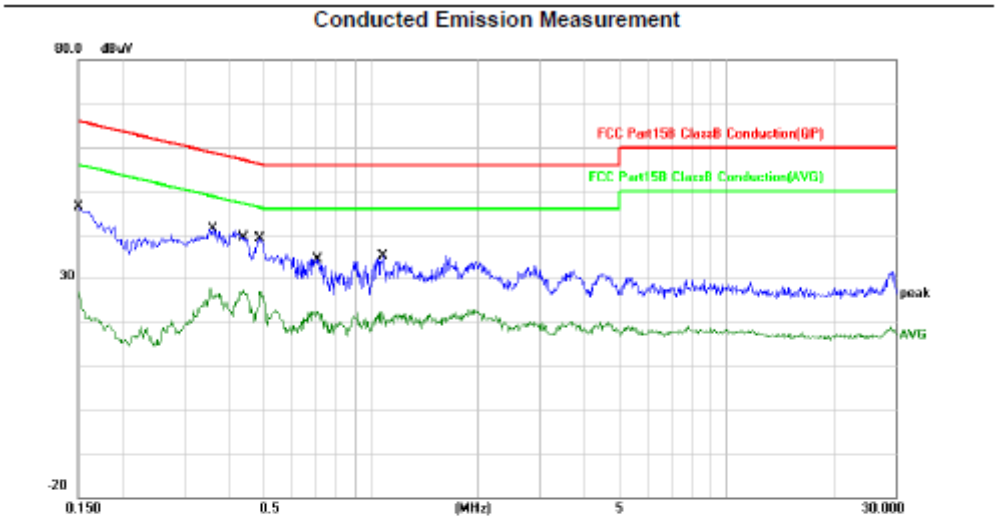
e) The thickness of the insulation shall not be more than 150 mm.

### 3.1.3 Test Setup



### 3.1.4 Test Result of AC Power Line Conducted Emission

| | |
|---|---|
| Test Frequency range: | 150kHz~30MHz |
| Test mode: | Transmitting |
| Test voltage: | AC 120V/60Hz |
| Phase | Line |

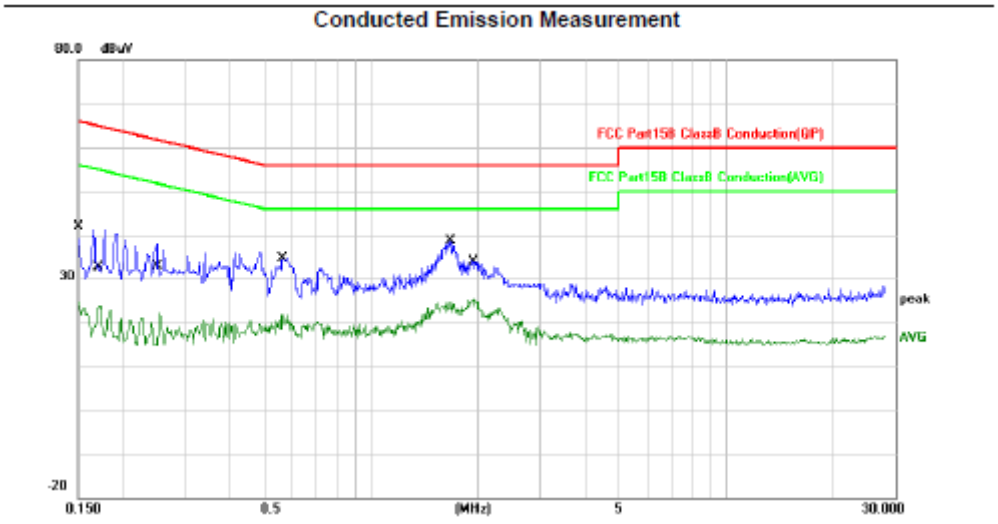



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 0.1500 | 26.32 | 20.07 | 46.39 | 66.00 | -19.61 | QP | |
| 2 | | 0.1500 | 7.81 | 20.07 | 27.88 | 56.00 | -28.12 | AVG | |
| 3 | | 0.3540 | 20.51 | 20.04 | 40.55 | 58.87 | -18.32 | QP | |
| 4 | | 0.3540 | 7.64 | 20.04 | 27.68 | 48.87 | -21.19 | AVG | |
| 5 | | 0.4380 | 19.14 | 20.28 | 39.42 | 57.10 | -17.68 | QP | |
| 6 | | 0.4380 | 6.95 | 20.28 | 27.23 | 47.10 | -19.87 | AVG | |
| 7 | * | 0.4940 | 18.56 | 20.16 | 38.72 | 56.10 | -17.38 | QP | |
| 8 | | 0.4940 | 6.79 | 20.16 | 26.95 | 46.10 | -19.15 | AVG | |
| 9 | | 0.7060 | 13.50 | 20.00 | 33.50 | 56.00 | -22.50 | QP | |
| 10 | | 0.7060 | 2.44 | 20.00 | 22.44 | 46.00 | -23.56 | AVG | |
| 11 | | 1.0700 | 13.62 | 20.05 | 33.67 | 56.00 | -22.33 | QP | |
| 12 | | 1.0700 | 2.44 | 20.05 | 22.49 | 46.00 | -23.51 | AVG | |

**Note:**

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Measurement = Reading Level + Correct Factor.
3. Over = Measurement - Limit

| | |
|---|---|
| Test Frequency range: | 150kHz~30MHz |
| Test mode: | Transmitting |
| Test voltage: | AC 120V/60Hz |
| Phase | Neutral |




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | | 0.1500 | 21.44 | 20.34 | 41.78 | 66.00 | -24.22 | QP | |
| 2 | | 0.1500 | 5.59 | 20.34 | 25.93 | 56.00 | -30.07 | AVG | |
| 3 | | 0.1711 | 12.26 | 20.26 | 32.52 | 64.91 | -32.39 | QP | |
| 4 | | 0.1711 | 3.74 | 20.26 | 24.00 | 54.91 | -30.91 | AVG | |
| 5 | | 0.2540 | 10.62 | 20.07 | 30.69 | 61.63 | -30.94 | QP | |
| 6 | | 0.2540 | 1.96 | 20.07 | 22.03 | 51.63 | -29.60 | AVG | |
| 7 | | 0.5700 | 14.17 | 20.14 | 34.31 | 56.00 | -21.69 | QP | |
| 8 | | 0.5700 | 1.56 | 20.14 | 21.70 | 46.00 | -24.30 | AVG | |
| 9 | * | 1.6700 | 17.48 | 20.31 | 37.79 | 56.00 | -18.21 | QP | |
| 10 | | 1.6700 | 4.25 | 20.31 | 24.56 | 46.00 | -21.44 | AVG | |
| 11 | | 1.9540 | 13.43 | 20.33 | 33.76 | 56.00 | -22.24 | QP | |
| 12 | | 1.9540 | 5.09 | 20.33 | 25.42 | 46.00 | -20.58 | AVG | |

**Note:**

1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
2. Measurement = Reading Level + Correct Factor.
3. Over = Measurement - Limit

## 3.2 Radiated Emissions

### 3.2.1 Limit

Emissions radiated outside of the specified bands, shall be according to the general radiated limits as following:

| Frequencies (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|---|---|---|
| 0.009 – 0.490 | 2400/F(kHz) | 300 |
| 0.490 – 1.705 | 24000/F(kHz) | 30 |
| 1.705 – 30.0 | 30 | 30 |
| 30 – 88 | 100 | 3 |
| 88 – 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

Note: (1) The lower limit shall apply at the transition frequencies.
(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).
(3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
(4) The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

### 3.2.2 Test Procedure

Below 30MHz

a) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.

b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c) The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e) The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

30MHz~1GHz

a) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

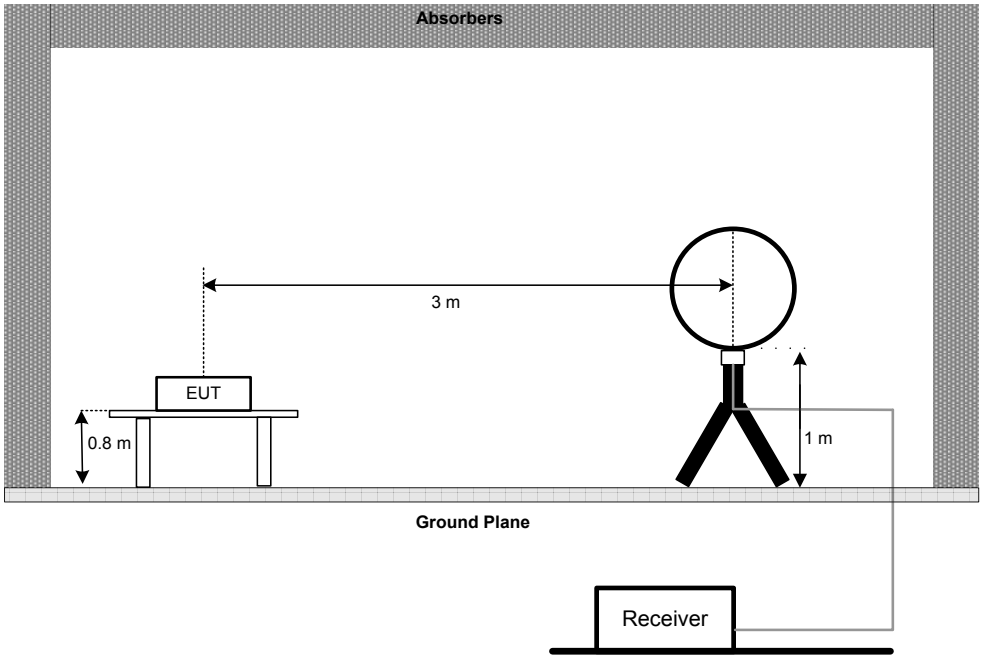
c) The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

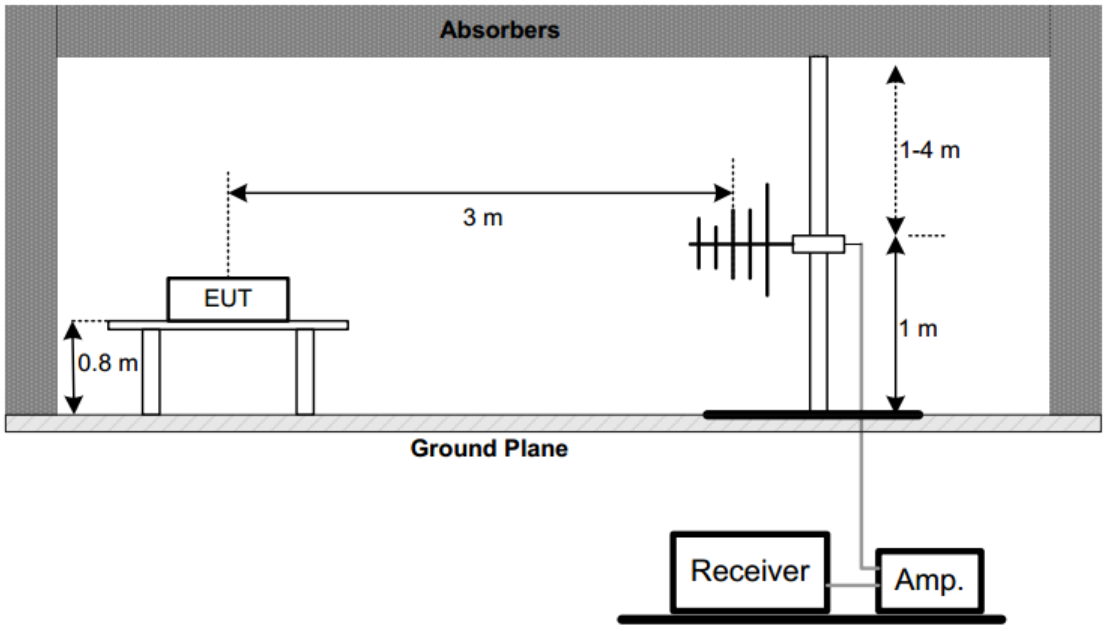
e) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

### 3.2.3 Test Setup

(A) Radiated Emission Test Set-Up Frequency Below 30MHz



(B) Radiated Emission Test Set-Up Frequency Below 1 GHz

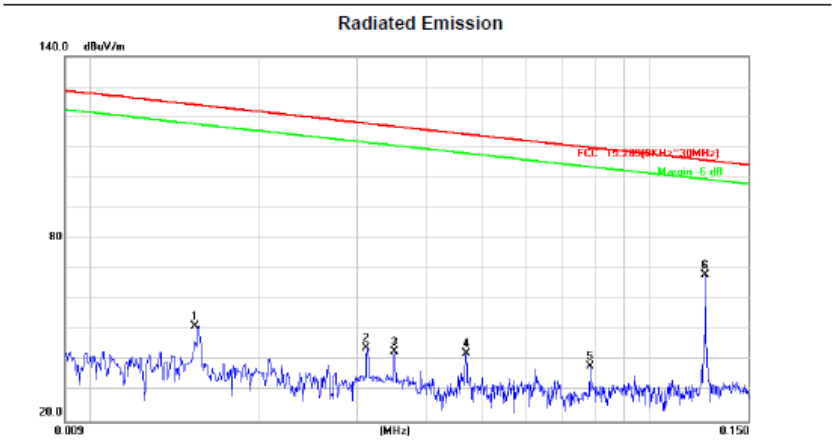


## 3.2.4 Test Result of Radiated Emission

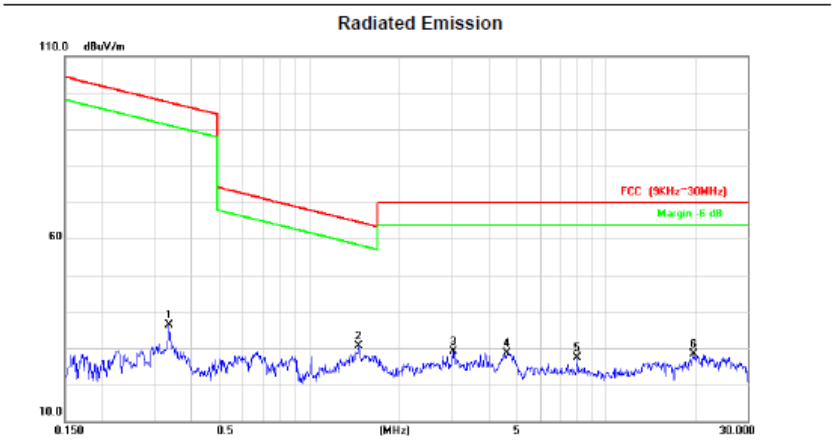
The worst measurement data as follows:

| Below 30MHz | Test mode: Transmitting |
|---|---|

**Parallel**



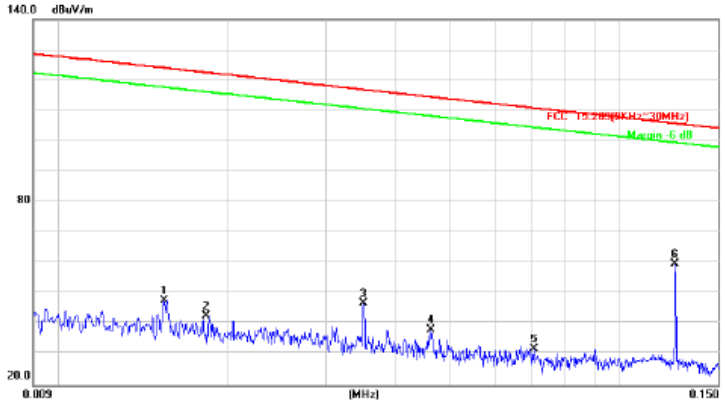

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 0.0154 | 61.77 | -10.33 | 51.44 | 123.69 | -72.25 | peak | | | |
| 2 | | 0.0310 | 54.30 | -10.20 | 44.10 | 117.64 | -73.54 | peak | | | |
| 3 | | 0.0350 | 53.24 | -10.24 | 43.00 | 116.59 | -73.59 | peak | | | |
| 4 | | 0.0470 | 52.76 | -10.35 | 42.41 | 114.05 | -71.64 | peak | | | |
| 5 | | 0.0780 | 48.51 | -10.30 | 38.21 | 109.67 | -71.46 | peak | | | |
| 6 | * | 0.1255 | 78.61 | -10.45 | 68.16 | 105.57 | -37.41 | peak | | | |




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 0.3371 | 47.35 | -11.02 | 36.33 | 97.03 | -60.70 | peak | | | |
| 2 | * | 1.4640 | 42.16 | -11.64 | 30.52 | 64.29 | -33.77 | peak | | | |
| 3 | | 3.0412 | 40.82 | -11.58 | 29.24 | 69.54 | -40.30 | peak | | | |
| 4 | | 4.6222 | 40.05 | -11.53 | 28.52 | 69.54 | -41.02 | peak | | | |
| 5 | | 7.9774 | 39.22 | -11.80 | 27.42 | 69.54 | -42.12 | peak | | | |
| 6 | | 19.7393 | 39.83 | -11.39 | 28.44 | 69.54 | -41.10 | peak | | | |

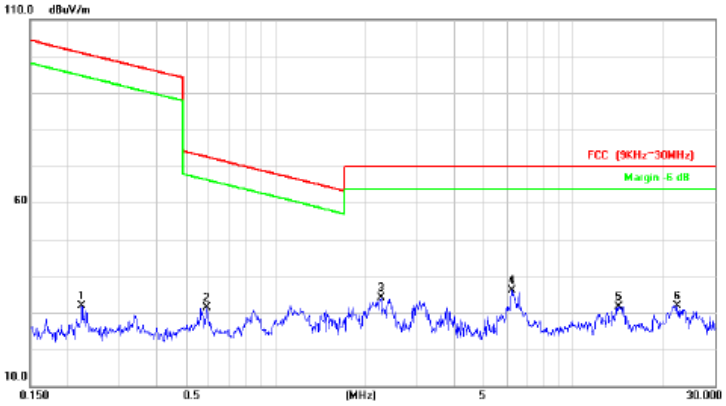
## Perpendicular

**Radiated Emission**



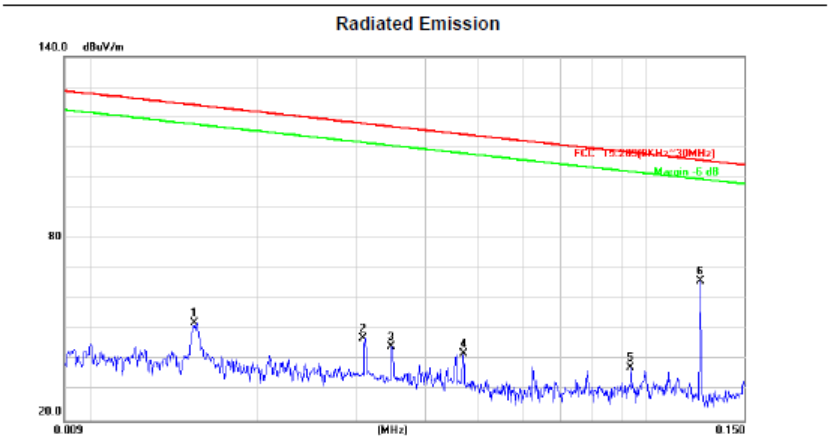

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 0.0154 | 57.99 | -10.33 | 47.66 | 123.69 | -76.03 | peak | | | |
| 2 | | 0.0183 | 52.92 | -10.30 | 42.62 | 122.20 | -79.58 | peak | | | |
| 3 | | 0.0350 | 57.00 | -10.24 | 46.76 | 116.59 | -69.83 | peak | | | |
| 4 | | 0.0460 | 48.36 | -10.34 | 38.02 | 114.23 | -76.21 | peak | | | |
| 5 | | 0.0703 | 42.23 | -10.38 | 31.85 | 110.57 | -78.72 | peak | | | |
| 6 | * | 0.1255 | 70.20 | -10.45 | 59.75 | 105.57 | -45.82 | peak | | | |

**Radiated Emission**

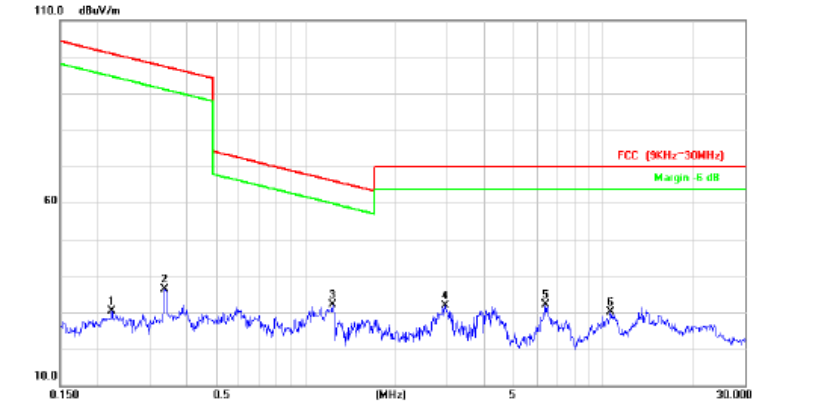



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 0.2230 | 42.87 | -10.93 | 31.94 | 100.60 | -68.66 | peak | | | |
| 2 | | 0.5885 | 42.52 | -11.26 | 31.26 | 72.21 | -40.95 | peak | | | |
| 3 | | 2.2604 | 45.62 | -11.56 | 34.06 | 69.54 | -35.48 | peak | | | |
| 4 | * | 6.2190 | 47.82 | -11.74 | 36.08 | 69.54 | -33.46 | peak | | | |
| 5 | | 14.2126 | 43.25 | -11.59 | 31.66 | 69.54 | -37.88 | peak | | | |
| 6 | | 22.4161 | 43.20 | -11.37 | 31.83 | 69.54 | -37.71 | peak | | | |

## Ground- parallel




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 0.0154 | 62.51 | -10.33 | 52.18 | 123.69 | -71.51 | peak | | | |
| 2 | | 0.0310 | 57.33 | -10.20 | 47.13 | 117.64 | -70.51 | peak | | | |
| 3 | | 0.0347 | 54.70 | -10.24 | 44.46 | 116.67 | -72.21 | peak | | | |
| 4 | | 0.0470 | 52.37 | -10.35 | 42.02 | 114.05 | -72.03 | peak | | | |
| 5 | | 0.0937 | 47.74 | -10.21 | 37.53 | 108.09 | -70.56 | peak | | | |
| 6 | * | 0.1250 | 76.42 | -10.44 | 65.98 | 105.60 | -39.62 | peak | | | |



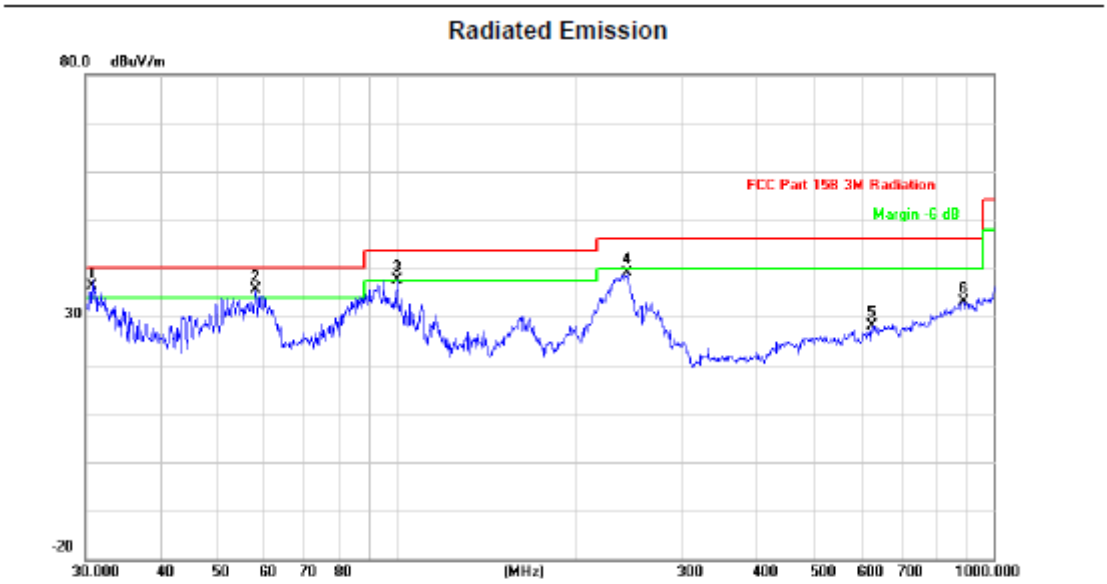

| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 0.2230 | 41.29 | -10.93 | 30.36 | 100.60 | -70.24 | peak | | | |
| 2 | | 0.3371 | 47.43 | -11.02 | 36.41 | 97.03 | -60.62 | peak | | | |
| 3 | * | 1.2356 | 43.68 | -11.67 | 32.01 | 65.77 | -33.76 | peak | | | |
| 4 | | 2.9462 | 43.45 | -11.59 | 31.86 | 69.54 | -37.68 | peak | | | |
| 5 | | 6.3856 | 43.93 | -11.76 | 32.17 | 69.54 | -37.37 | peak | | | |
| 6 | | 10.5637 | 41.62 | -11.50 | 30.12 | 69.54 | -39.42 | peak | | | |

**Note:**

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Level = Reading + Correct Factor.
3. Margin = Level – Limit

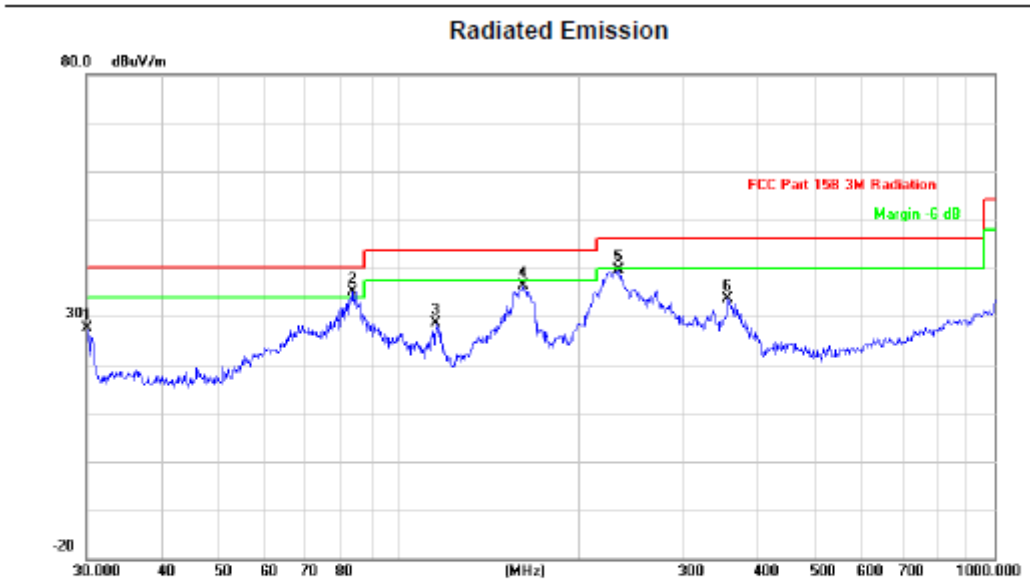
| 30MHz~1GHz | Test mode: Transmitting |
|---|---|

Vertical




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | * | 30.7454 | 48.07 | -11.76 | 36.31 | 40.00 | -3.69 | QP | | | |
| 2 | ! | 57.7961 | 47.62 | -12.03 | 35.59 | 40.00 | -4.41 | peak | | | |
| 3 | ! | 99.8777 | 52.73 | -15.00 | 37.73 | 43.50 | -5.77 | peak | | | |
| 4 | | 243.3771 | 51.86 | -12.62 | 39.24 | 46.00 | -6.76 | peak | | | |
| 5 | | 625.0780 | 35.31 | -7.16 | 28.15 | 46.00 | -17.85 | peak | | | |
| 6 | | 890.7277 | 34.48 | -1.34 | 33.14 | 46.00 | -12.86 | peak | | | |

Horizontal




| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure-ment | Limit | Over | | Antenna Height | Table Degree | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB/m | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 30.0000 | 39.57 | -11.83 | 27.74 | 40.00 | -12.26 | peak | | | |
| 2 | * | 83.8155 | 50.83 | -15.63 | 35.20 | 40.00 | -4.80 | peak | | | |
| 3 | | 115.3204 | 42.47 | -13.86 | 28.61 | 43.50 | -14.89 | peak | | | |
| 4 | | 161.4740 | 48.03 | -11.60 | 36.43 | 43.50 | -7.07 | peak | | | |
| 5 | | 234.1682 | 52.72 | -13.17 | 39.55 | 46.00 | -6.45 | peak | | | |
| 6 | | 356.6757 | 43.57 | -10.05 | 33.52 | 46.00 | -12.48 | peak | | | |

**Note:**

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Measure-ment = Reading Level + Correct Factor.
3. Over = Measure-ment – Limit

## 3.3 20dB bandwidth measurement

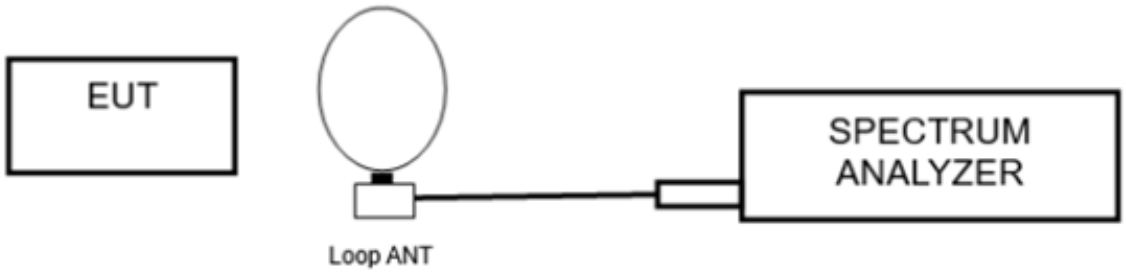
### 3.3.1 Test standard

FCC Part 15.215(c)

### 3.3.2 Test Procedure

| Test Method | |
|---|---|
| ●Conducted Measurement | ○Radiated Measurement |
| Environmental Conditions | |
| ●Normal | ○Normal and Extreme |
| Note:●:Test ○:No Test | |

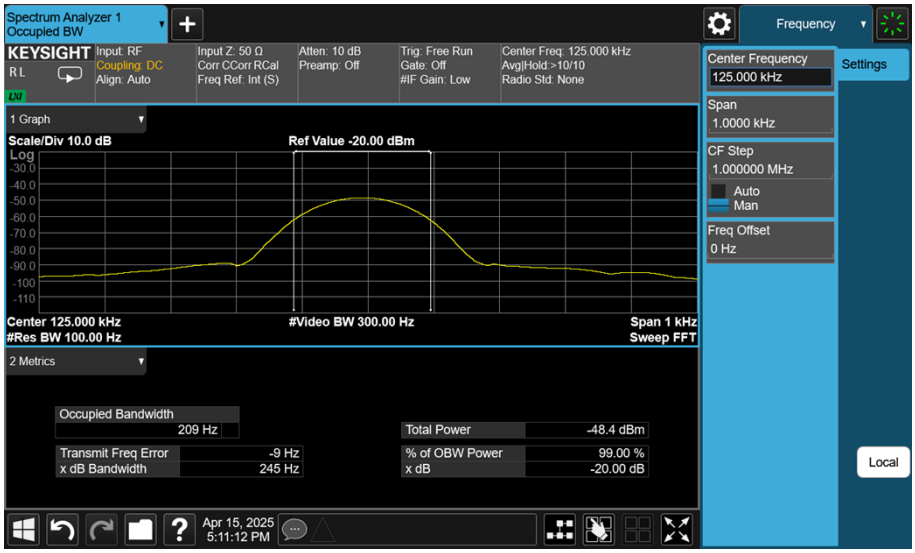
### 3.3.3 Test Setup




### 3.3.4 Test results

| Test mode | 20dB bandwidth (KHz) |
|---|---|
| Transmitting | 0.245 |

For details refer to following test result.

| 20dB bandwidth |
| --- |
|  |

# 4. Antenna Requirement

Test Specification

Test standard : Part 15.203

According to the manufacturer declared, the EUT has one PCB antenna, and the antenna is permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

# Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technology Co., Ltd. (hereinafter referred to as the unit).
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

## Shenzhen Haiyun Standard Technology Co., Ltd.

Address: Room 110, 111, 112, 113, 115, 116, Block B, Jinyuan Business Building, No. 302, Xixiang Avenue, Labor Community, Xixiang Street, Baoan District, Shenzhen, China

Tel: 0755-26024411

Email: service@hy-lab.cn

(END OF REPORT)