

# RF TEST REPORT

**FCC ID: 2AFZZ-WPB15PDZM**

Test Report No.....: RF231016008-01-003

Product(s) Name.....: Xiaomi 10W Wireless Power Bank 10000

Model(s).....: WPB15PDZM

Trade Mark.....: **Xiaomi**

Applicant.....: Xiaomi Communications Co., Ltd.

Address.....: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District,  
Beijing, China, 100085

Receipt Date.....: 2023.10.16

Test Date.....: 2023.10.20~2023.10.29

Issued Date.....: 2023.12.18

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:    |  |
|-------------------|------------------|-----------------|---------------------------------------------------------------------------------------|
| Black Ding        | Tim Zhang        | Misue Su        |                                                                                       |
| <i>Black Ding</i> | <i>Tim.zhang</i> | <i>Misue Su</i> |                                                                                       |

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## History of this test report

Original Report Issue Date: 2023.12.18

☒ No additional attachment

☐ Additional attachments were issued following record

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

### 1.1 Applicant

**Xiaomi Communications Co., Ltd.**

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

### 1.2 Manufacturer

**Xiaomi Communications Co., Ltd.**

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

### 1.3 Basic Description of Equipment Under Test

|                     |                                               |
|---------------------|-----------------------------------------------|
| Product No.         | POC231016008-S001, POC231016008-S002          |
| Product Name        | Xiaomi 10W Wireless Power Bank 10000          |
| Model Name          | WPB15PDZM                                     |
| Trademark           | <b>Xiaomi</b>                                 |
| Power supply:       | DC 5V/9V from adapter or DC 3.7V from battery |
| WPT Output Power:   | 10W Max                                       |
| Modulation type     | ASK                                           |
| Operating frequency | 110-148kHz                                    |
| Antenna type        | Coil Antenna                                  |
| Antenna Gain        | 0 dBi                                         |

### 1.4 Application of Standard

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

### 1.5 Independent Operation Modes

The basic operation modes are:

- A. On, Wireless charging(Wireless Charger)
- B. Standby
- C. Off

## 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     | Pass    |
| 20dB Bandwidth                                                                | 15.215(c)  | Pass    |
| Note: Pass: The EUT complies with the essential requirements in the standard. |            |         |

### 2.2 Test Instruments

| Radiated Emissions |                                  |                           |             |            |                        |                            |
|--------------------|----------------------------------|---------------------------|-------------|------------|------------------------|----------------------------|
| No.                | Equipment                        | Manufacturer              | Type No.    | Serial No. | Cal. date (yyyy/mm/dd) | Cal. Due date (yyyy/mm/dd) |
| 1                  | Test receiver                    | Rohde&Schwarz             | ESU         | 100184     | 2023/5/3               | 2024/5/2                   |
| 2                  | Horn Antenna                     | Schwarzbeck               | BBHA 9120 D | 9120D-1273 | 2023/4/23              | 2024/4/22                  |
| 3                  | Low frequency amplifier          | Unknown                   | LNA 0920N   | 2014       | 2023/5/3               | 2024/5/2                   |
| 4                  | High frequency amplifier         | Schwarzbeck               | BBV 9718    | 284        | 2023/5/3               | 2024/5/2                   |
| 5                  | Loop Antenna                     | Schwarzbeck               | FMZB1519 B  | 00029      | 2022/7/4               | 2025/7/3                   |
| 6                  | Log periodic antenna             | Schwarzbeck               | VULB 9168   | 1151       | 2023/4/23              | 2024/4/22                  |
| 7                  | Horn Antenna                     | Schwarzbeck               | BBHA 9120 D | 9120D-1273 | 2022/5/5               | 2025/5/4                   |
| 8                  | Horn Antenna                     | Schwarzbeck               | BBHA 9170   | 9170#685   | 2022/7/4               | 2025/7/3                   |
| 9                  | Temp&Humidity Recorder           | Meideshi                  | JR900       | /          | 2023/5/3               | 2024/5/2                   |
| 10                 | RF cable(966 chamber)9kHz-1GHz   | Unknown                   | Unknown     | Unknown    | 2023/5/3               | 2024/5/2                   |
| 11                 | RF cable(966 chamber)1GHz-18GHz  | Unknown                   | Unknown     | Unknown    | 2023/5/3               | 2024/5/2                   |
| 12                 | RF cable(966 chamber)18GHz-40GHz | Unknown                   | Unknown     | Unknown    | 2023/5/3               | 2024/5/2                   |
| 13                 | Test software                    | Farad Technology Co., Ltd | EZ-EMC      | /          | /                      | /                          |

| Conducted Emission    |                          |                              |         |         |          |          |
|-----------------------|--------------------------|------------------------------|---------|---------|----------|----------|
| 1                     | Test receiver            | Rohde&Schwarz                | ESCI    | 100718  | 2023/5/3 | 2024/5/2 |
| 2                     | LISN                     | Rohde&Schwarz                | ENV216  | 100075  | 2023/5/3 | 2024/5/2 |
| 3                     | Pulse limiter            | Rohde&Schwarz                | ESH3-Z2 | 102299  | 2023/5/3 | 2024/5/2 |
| 4                     | RF cable<br>(9kHz-30MHz) | Unknown                      | Unknown | Unknown | 2023/5/3 | 2024/5/2 |
| 5                     | Test software            | Farad Technology<br>Co., Ltd | EZ-EMC  | /       | /        | /        |
| RF Conducted Emission |                          |                              |         |         |          |          |
| 1                     | Test receiver            | Rohde&Schwarz                | ESCI    | 100718  | 2023/5/3 | 2024/5/2 |

## 2.3 Special Accessories and Auxiliary Equipment

| Description           | Manufacturer | Model        | S/N            |
|-----------------------|--------------|--------------|----------------|
| Wireless charger load | EESON        | SLY-YZB-A01  | /              |
| Adapter               | Huawei       | HW-100225C00 | KC6704L4107046 |

## 2.4 Test Condition

| Applicable to               | Environmental conditions | Input Power  | Tested by  |
|-----------------------------|--------------------------|--------------|------------|
| AC Power Conducted Emission | 24.2°C, 53 % RH          | 120Vac, 60Hz | Anson Fan  |
| Radiated Emission           | 24.1°C, 50 % RH          | 120Vac, 60Hz | Albert Fan |
| 20dB Bandwidth              | 24.2°C, 53 % RH          | 120Vac, 60Hz | Anson Fan  |

## 2.5 Principle of Configuration Selection

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

**Radio Spectrum:** The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

## 2.6 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             | $\pm 143.88\text{kHz}$ |
| Power Spectral Density                 | $\pm 0.743\text{dB}$   |
| Conducted Spurious Emission            | $\pm 1.328\text{dB}$   |
| RF power conducted                     | $\pm 0.384\text{dB}$   |
| Conducted emission(9kHz~30MHz) AC main | $\pm 2.72\text{dB}$    |
| Radiated emission(9kHz~30MHz)          | $\pm 2.66\text{dB}$    |
| Radiated emission (30MHz~1GHz)         | $\pm 4.62\text{dB}$    |
| Radiated emission (1GHz~18GHz)         | $\pm 4.86\text{dB}$    |
| Radiated emission (18GHz~40GHz)        | $\pm 3.80\text{dB}$    |

## 2.7 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<br>(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      |

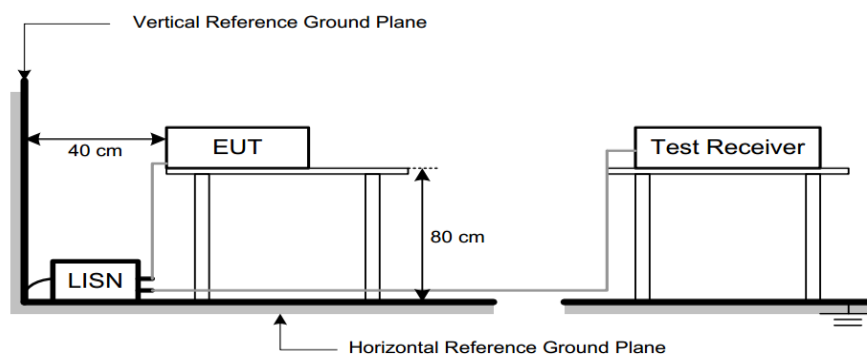
**Note:**

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.

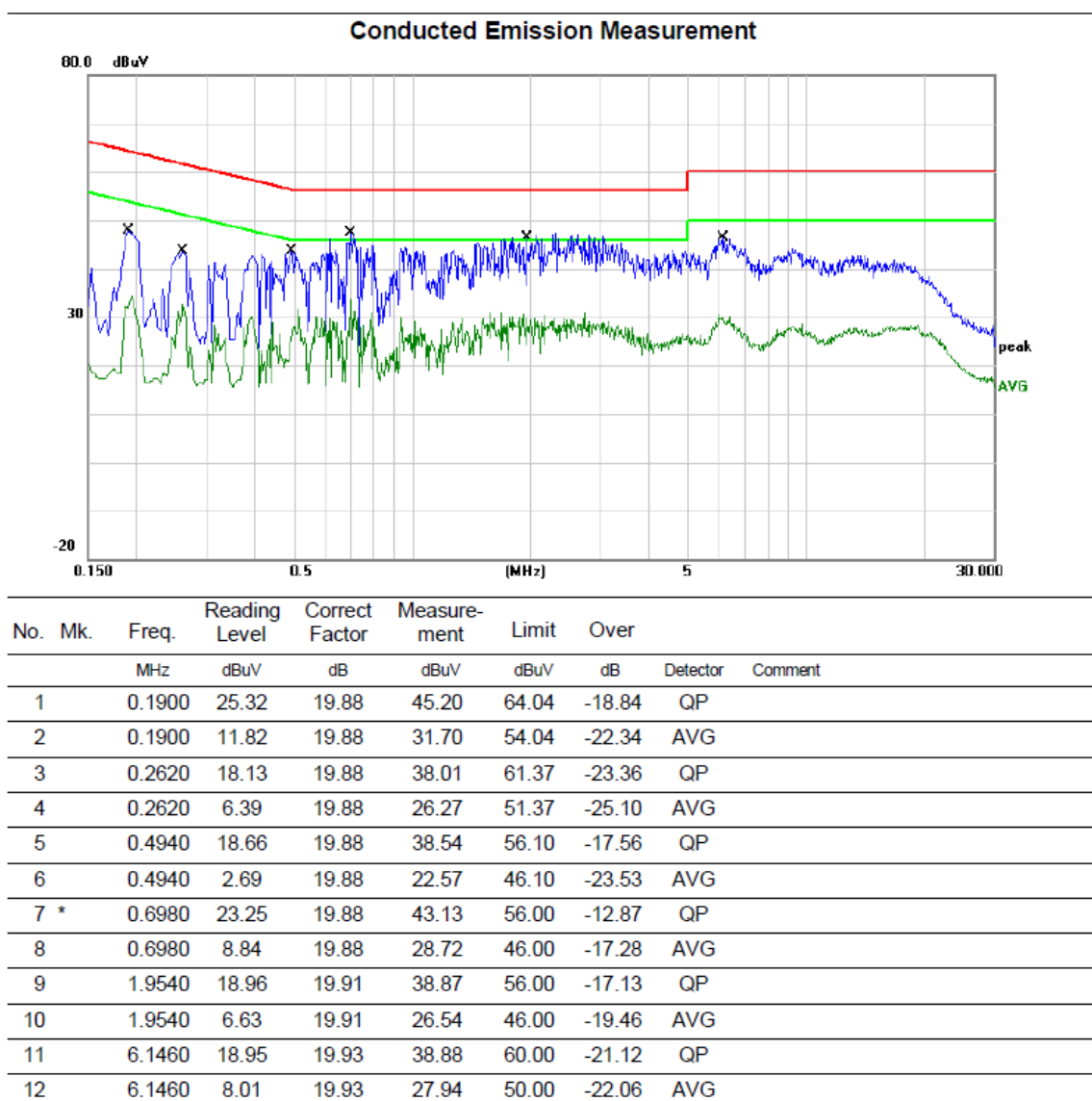
##### 3.1.3 Test Setup



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

For EUT1

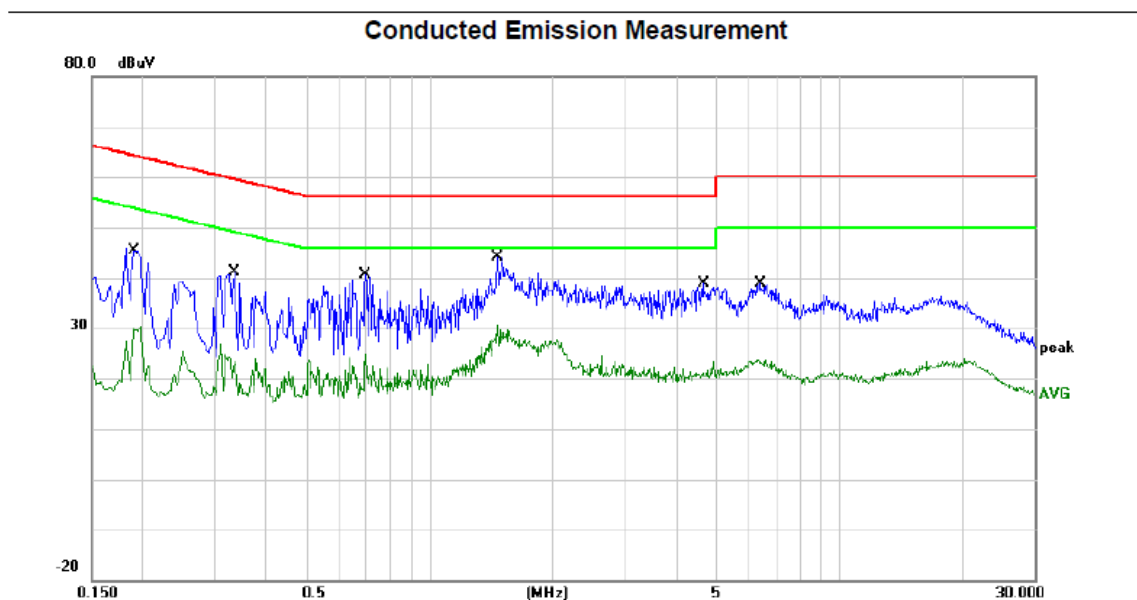
|                       |              |
|-----------------------|--------------|
| Test Frequency range: | 150kHz~30MHz |
| Test mode:            | A            |
| Test voltage:         | AC 120V/60Hz |
| Phase                 | Line         |



**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:            | A            |
| Test voltage:         | AC 120V/60Hz |
| Phase                 | Neutral      |



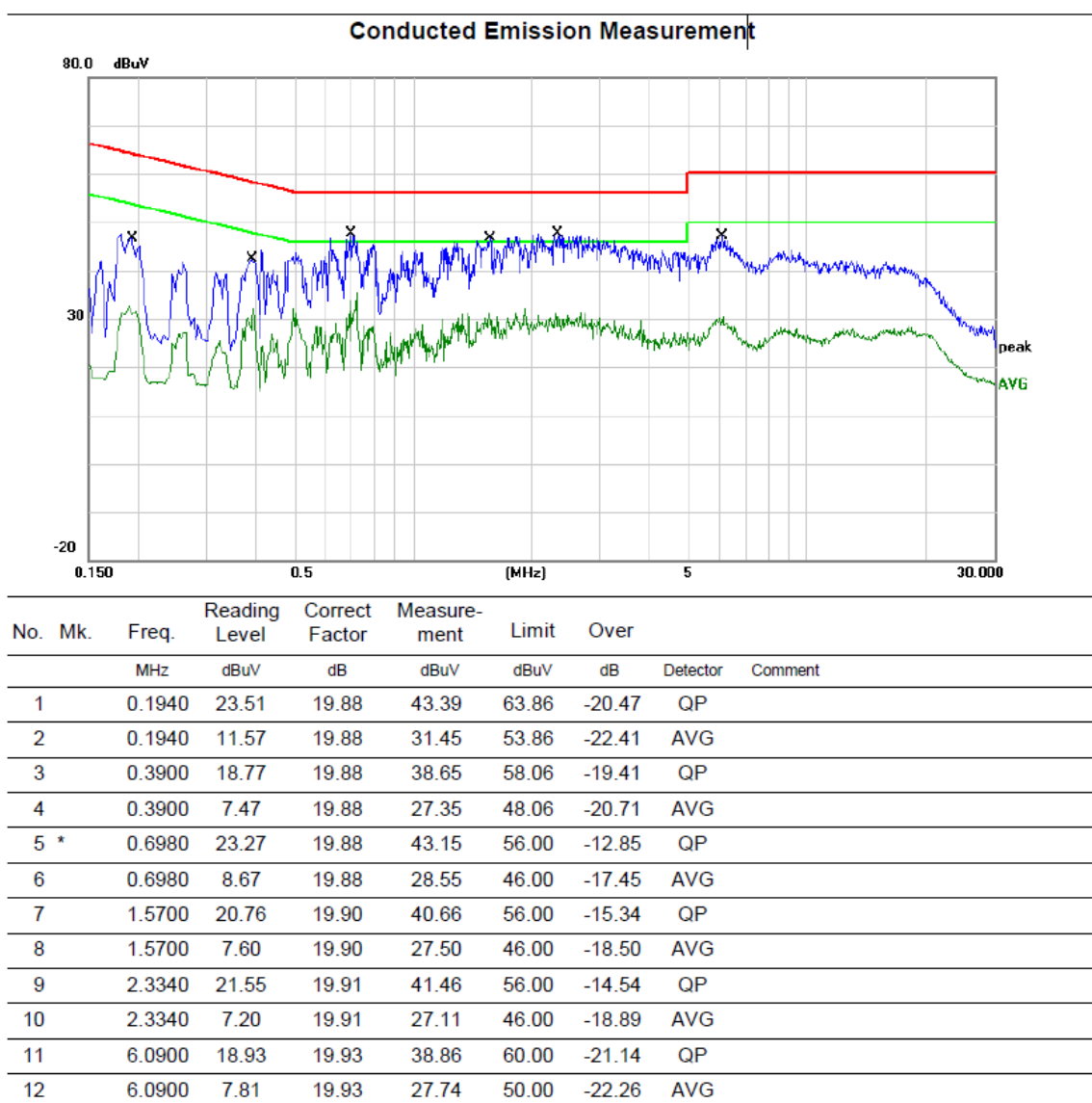
| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measurement | Limit | Over   |          |         |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|---------|
|     |     | MHz    | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector | Comment |
| 1   |     | 0.1900 | 22.64         | 19.88          | 42.52       | 64.04 | -21.52 | QP       |         |
| 2   |     | 0.1900 | 8.33          | 19.88          | 28.21       | 54.04 | -25.83 | AVG      |         |
| 3   |     | 0.3340 | 14.21         | 19.88          | 34.09       | 59.35 | -25.26 | QP       |         |
| 4   |     | 0.3340 | 1.35          | 19.88          | 21.23       | 49.35 | -28.12 | AVG      |         |
| 5   |     | 0.6980 | 16.41         | 19.88          | 36.29       | 56.00 | -19.71 | QP       |         |
| 6   |     | 0.6980 | 1.21          | 19.88          | 21.09       | 46.00 | -24.91 | AVG      |         |
| 7   |     | 1.4700 | 17.01         | 19.90          | 36.91       | 56.00 | -19.09 | QP       |         |
| 8 * |     | 1.4700 | 8.69          | 19.90          | 28.59       | 46.00 | -17.41 | AVG      |         |
| 9   |     | 4.6500 | 10.66         | 19.91          | 30.57       | 56.00 | -25.43 | QP       |         |
| 10  |     | 4.6500 | -0.46         | 19.91          | 19.45       | 46.00 | -26.55 | AVG      |         |
| 11  |     | 6.4020 | 11.58         | 19.93          | 31.51       | 60.00 | -28.49 | QP       |         |
| 12  |     | 6.4020 | 2.03          | 19.93          | 21.96       | 50.00 | -28.04 | 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

For EUT2

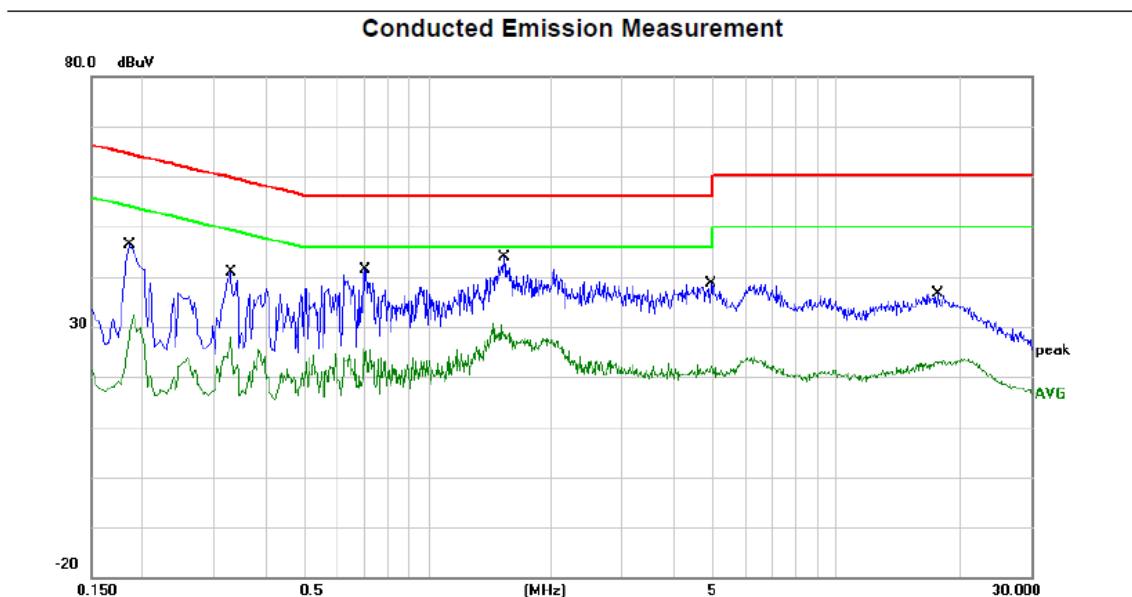
|                       |              |
|-----------------------|--------------|
| Test Frequency range: | 150kHz~30MHz |
| Test mode:            | A            |
| Test voltage:         | AC 120V/60Hz |
| Phase                 | Line         |



**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:            | A            |
| Test voltage:         | AC 120V/60Hz |
| Phase                 | Neutral      |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dB | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|-------------|------------|----------|---------|
| 1   |     | 0.1860       | 21.85                    | 19.88                   | 41.73                    | 64.21       | -22.48     | QP       |         |
| 2   |     | 0.1860       | 6.65                     | 19.88                   | 26.53                    | 54.21       | -27.68     | AVG      |         |
| 3   |     | 0.3300       | 14.78                    | 19.88                   | 34.66                    | 59.45       | -24.79     | QP       |         |
| 4   |     | 0.3300       | 2.35                     | 19.88                   | 22.23                    | 49.45       | -27.22     | AVG      |         |
| 5   |     | 0.7020       | 16.41                    | 19.88                   | 36.29                    | 56.00       | -19.71     | QP       |         |
| 6   |     | 0.7020       | 1.50                     | 19.88                   | 21.38                    | 46.00       | -24.62     | AVG      |         |
| 7   |     | 1.5420       | 16.35                    | 19.90                   | 36.25                    | 56.00       | -19.75     | QP       |         |
| 8   | *   | 1.5420       | 7.47                     | 19.90                   | 27.37                    | 46.00       | -18.63     | AVG      |         |
| 9   |     | 4.9340       | 10.43                    | 19.92                   | 30.35                    | 56.00       | -25.65     | QP       |         |
| 10  |     | 4.9340       | -0.38                    | 19.92                   | 19.54                    | 46.00       | -26.46     | AVG      |         |
| 11  |     | 17.6740      | 9.57                     | 20.04                   | 29.61                    | 60.00       | -30.39     | QP       |         |
| 12  |     | 17.6740      | 1.68                     | 20.04                   | 21.72                    | 50.00       | -28.28     | 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<br>(MHz) | Field strength<br>(microvolts/meter) | Measurement distance<br>(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

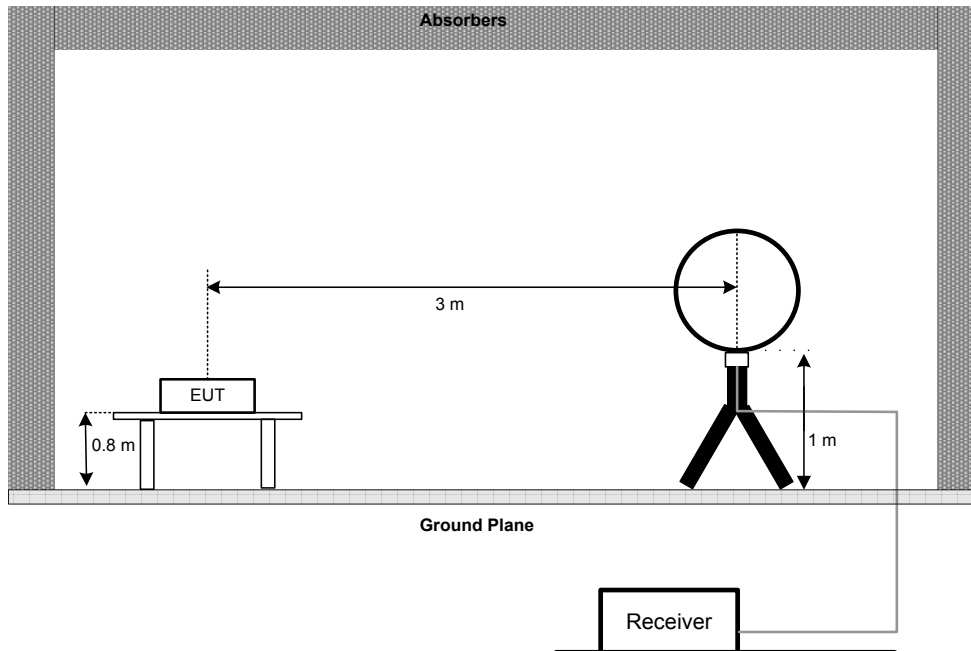
- a) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter Semi-anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted 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

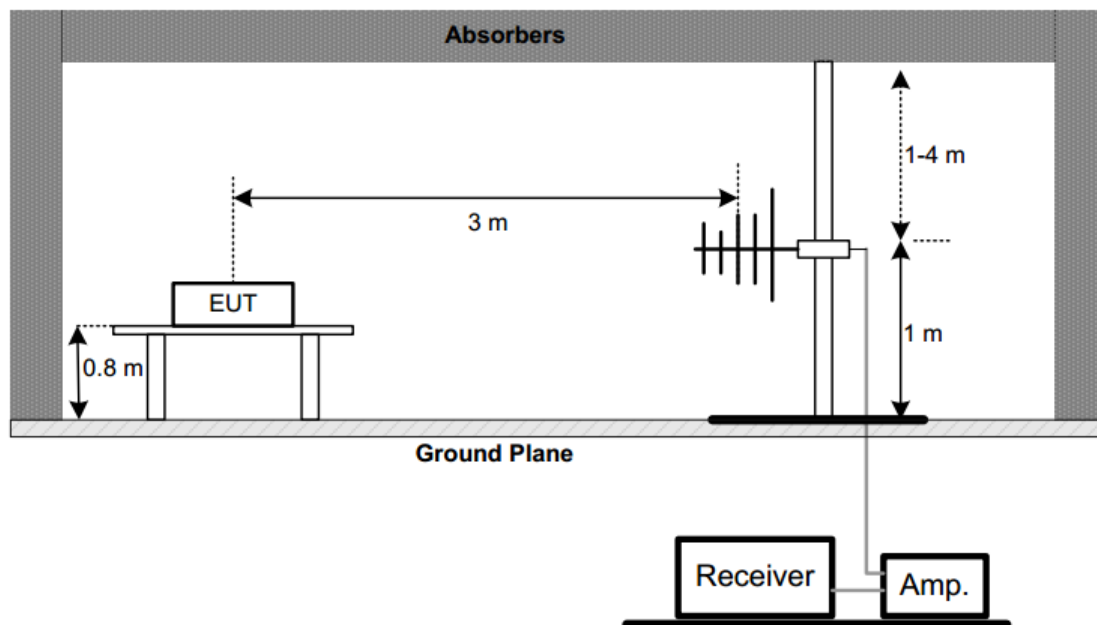
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- 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



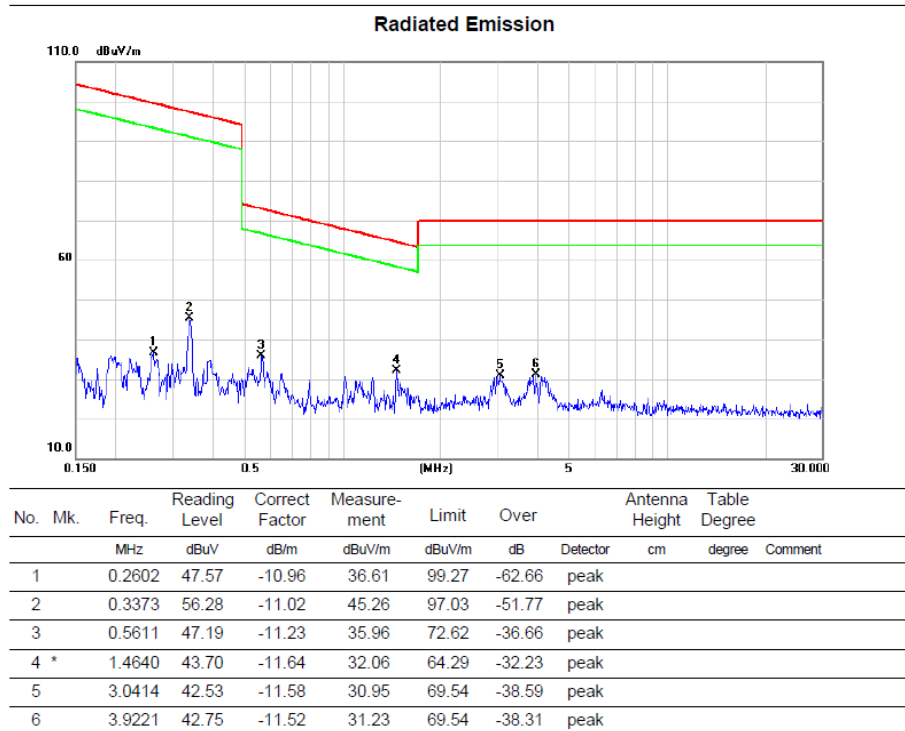
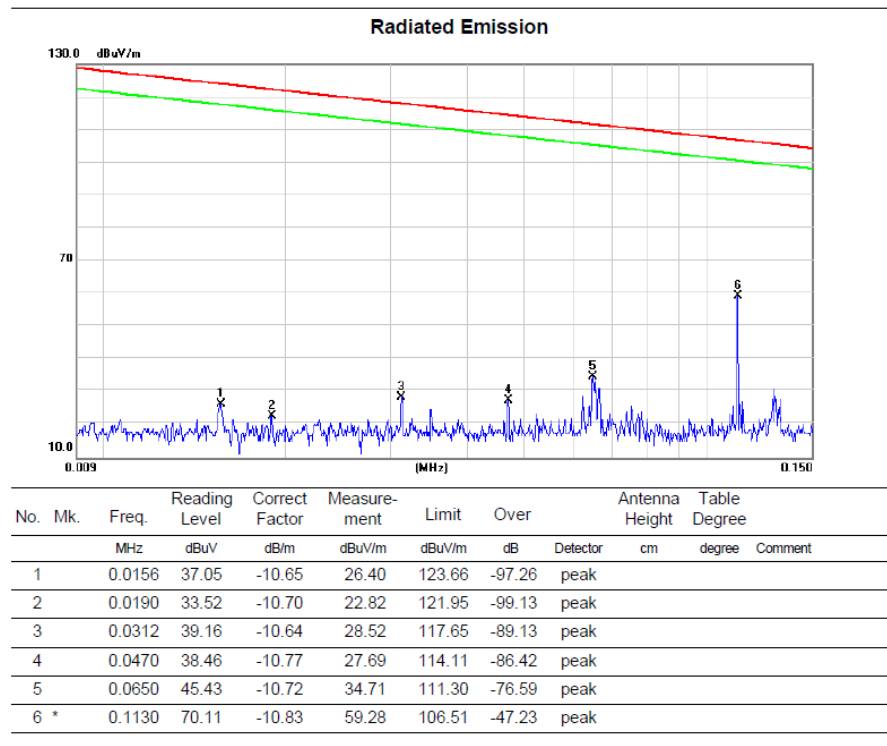
### 3.2.4 Test Result of Radiated Emission

The worst measurement data as follows:

For EUT1

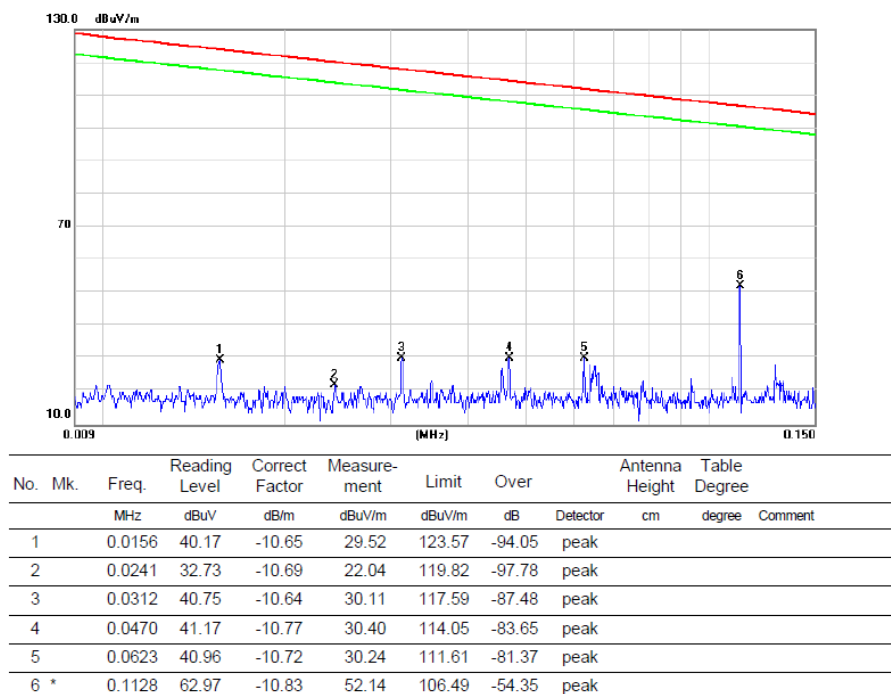
|             |              |
|-------------|--------------|
| Below 30MHz | Test mode: A |
|-------------|--------------|

#### Parallel

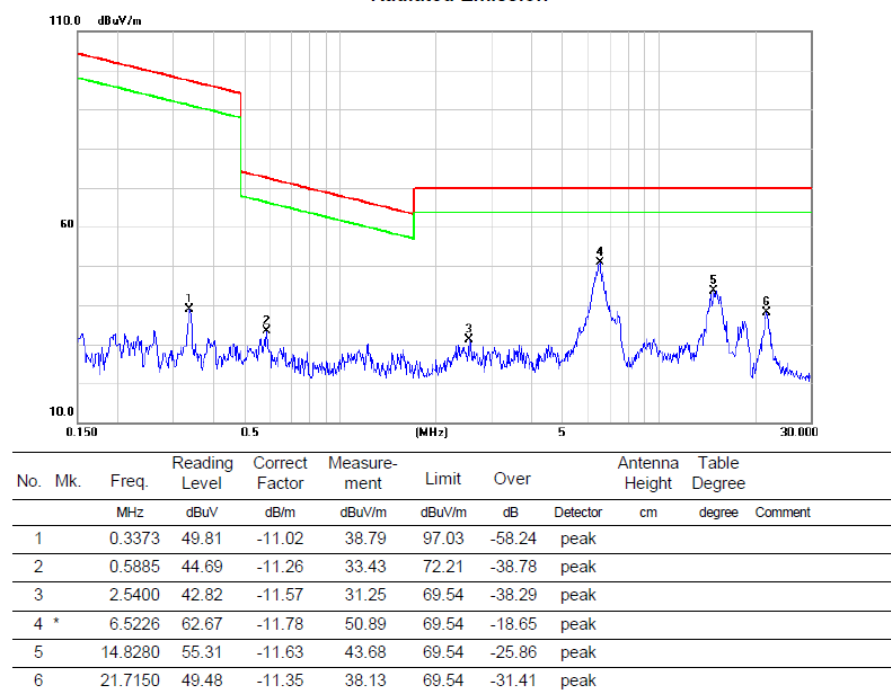


## Perpendicular

### Radiated Emission

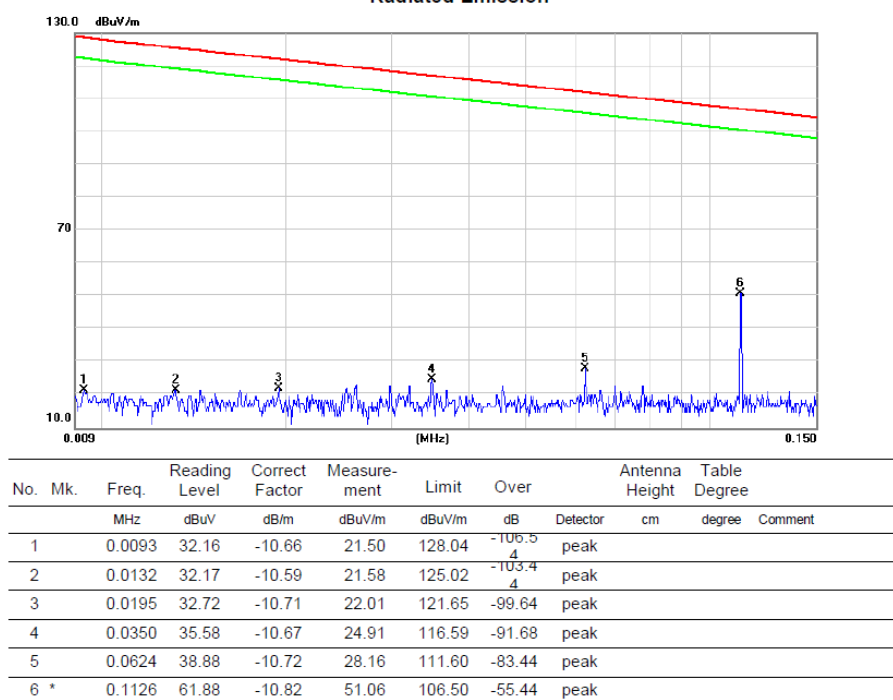


### Radiated Emission

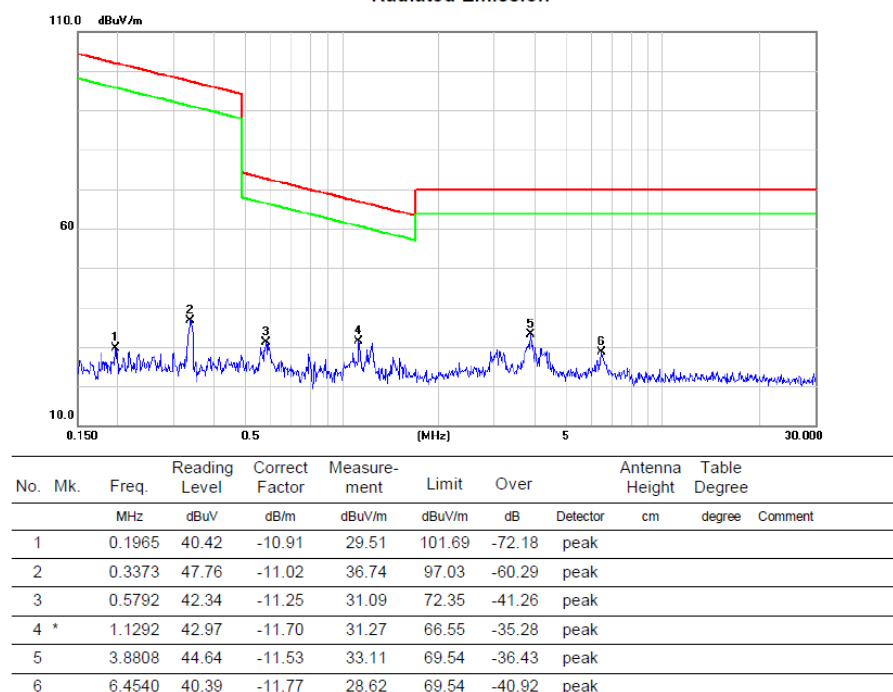


## Ground- parallel

### Radiated Emission



### Radiated Emission



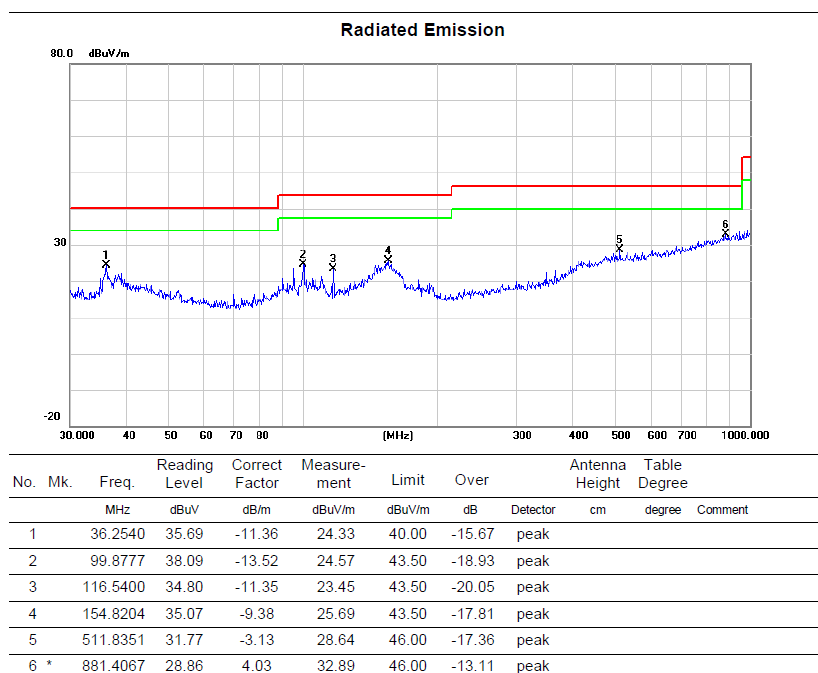
### Note:

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

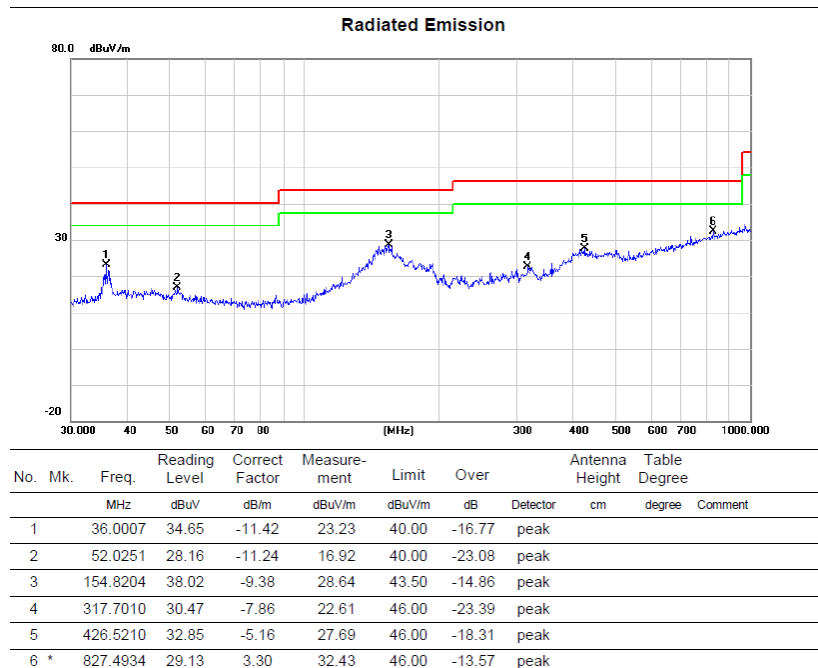
30MHz~1GHz

Test mode: A

### Vertical



### Horizontal



#### 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

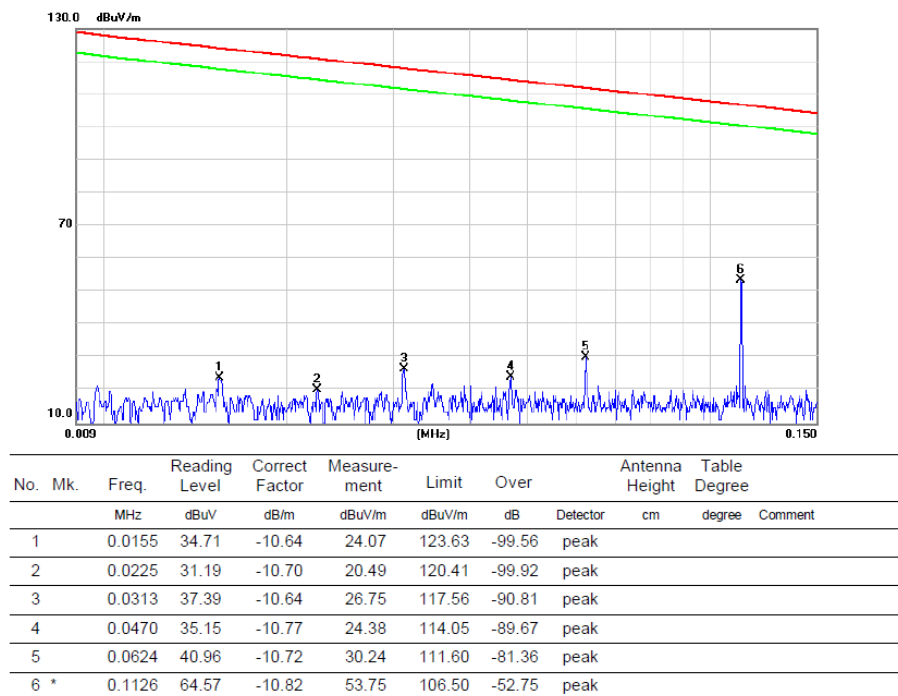
For EUT2

Below 30MHz

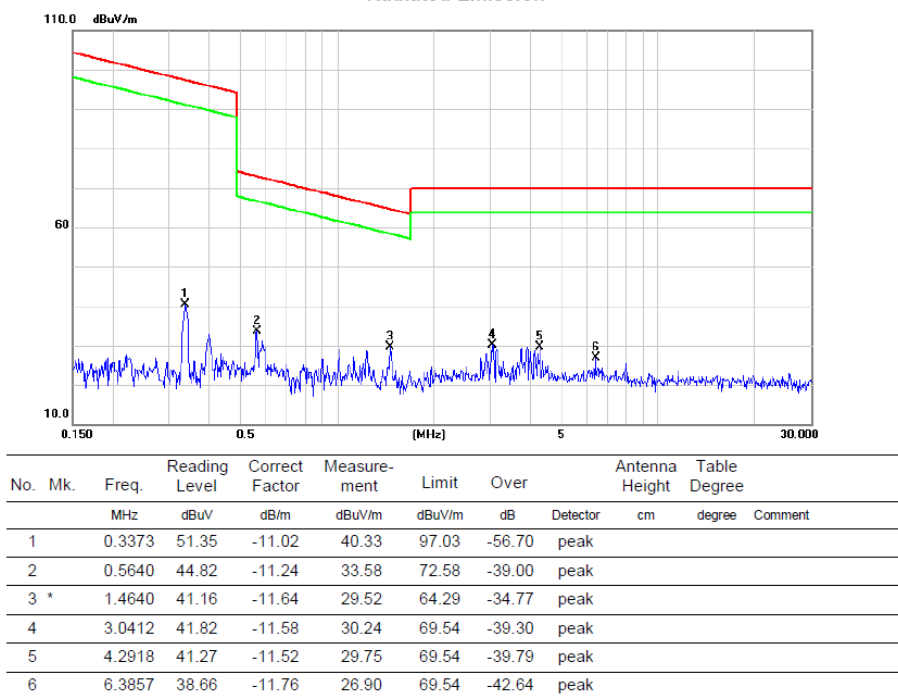
Test mode: A

### Parallel

#### Radiated Emission

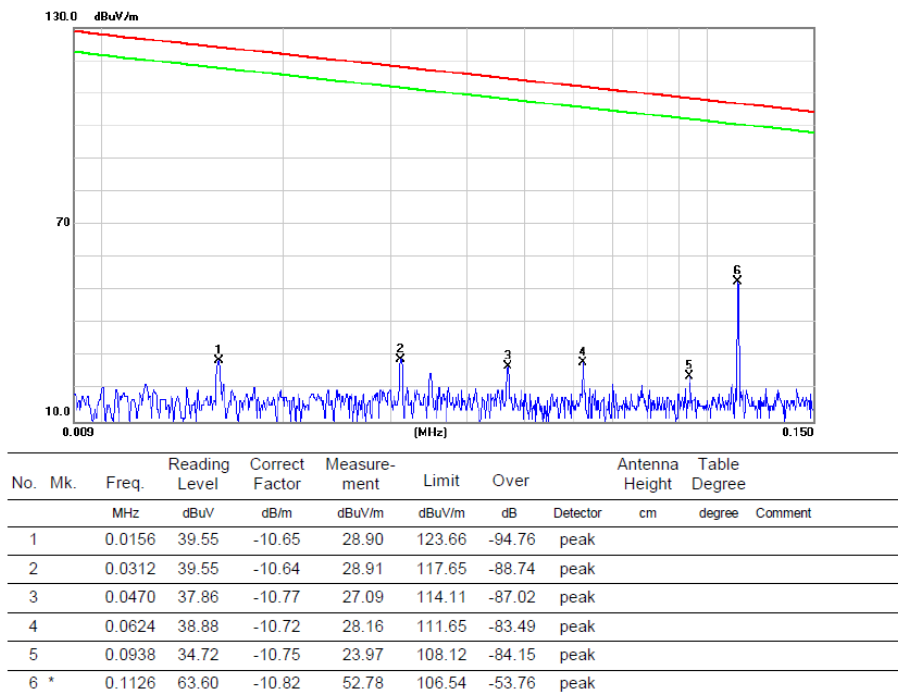


#### Radiated Emission

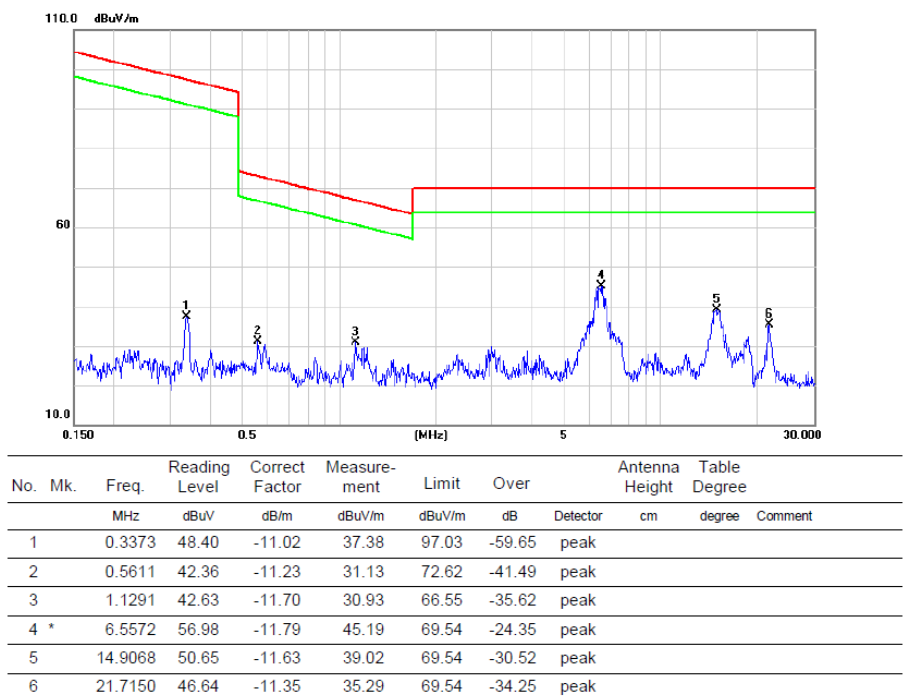


## Perpendicular

### Radiated Emission

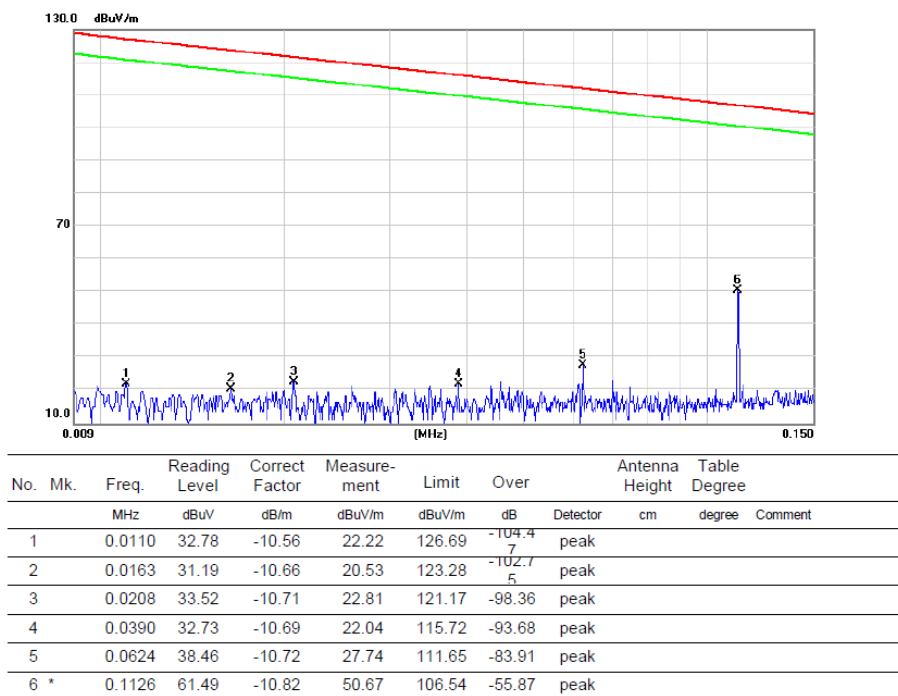


### Radiated Emission

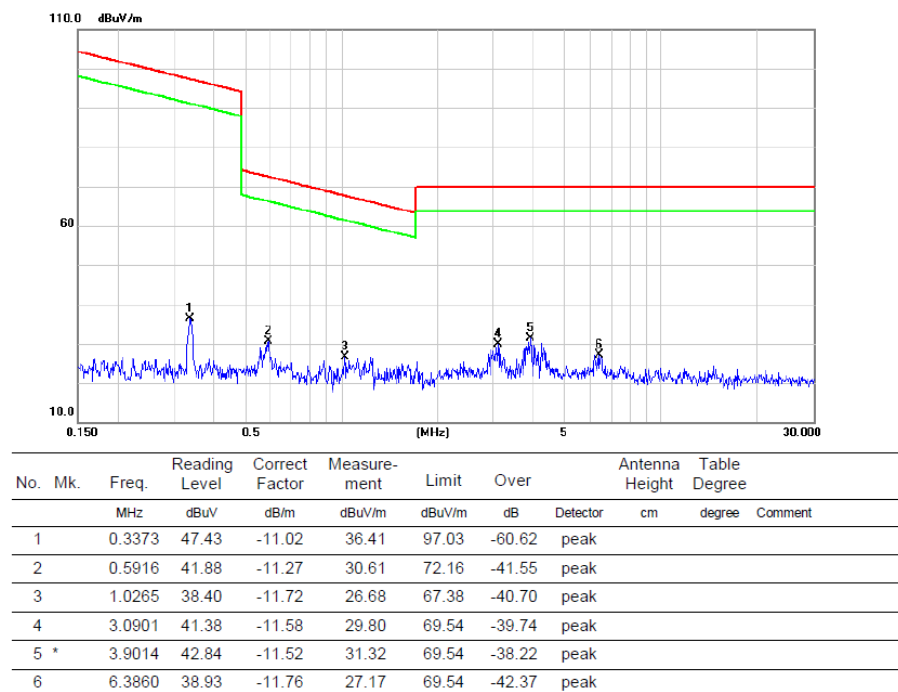


## Ground- parallel

### Radiated Emission



### Radiated Emission



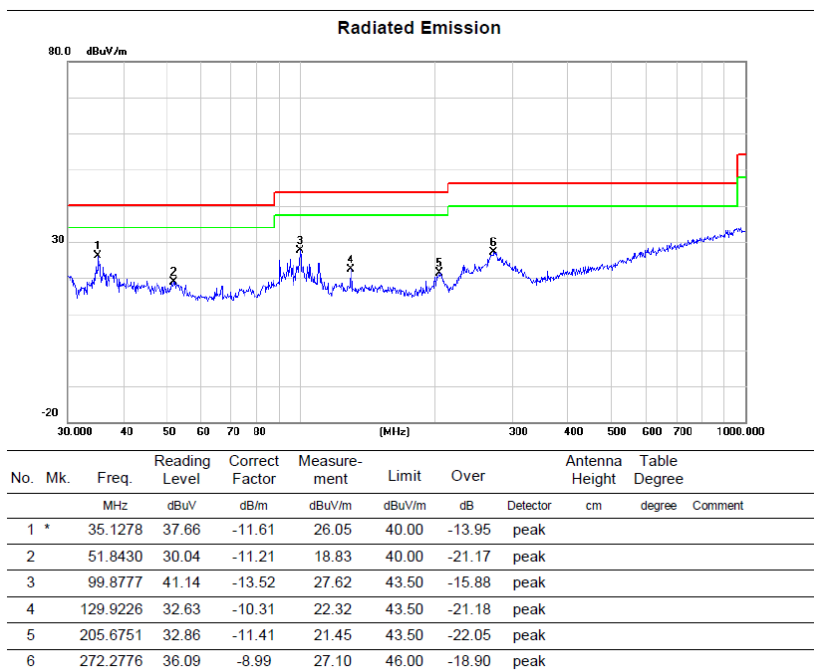
#### Note:

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

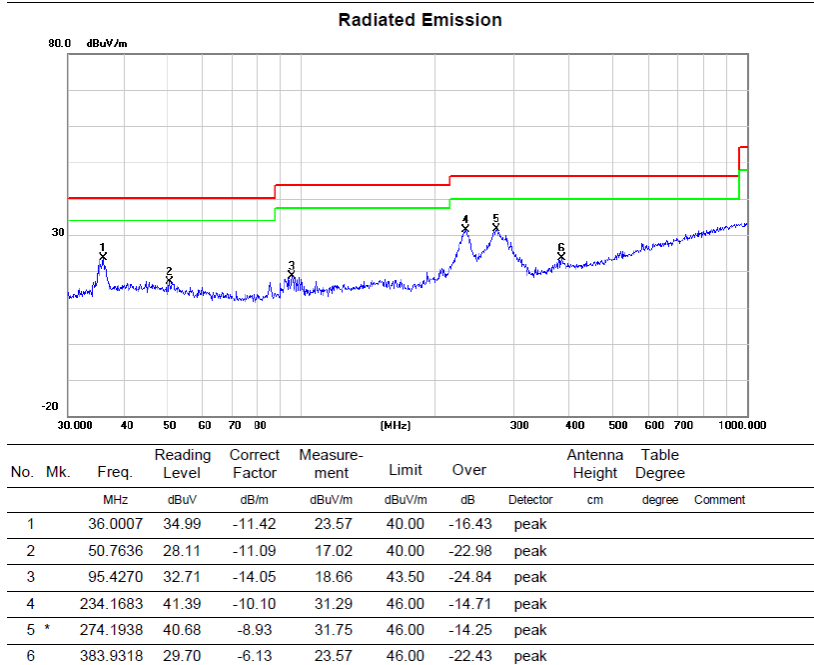
30MHz~1GHz

Test mode: A

### Vertical



### Horizontal



#### 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

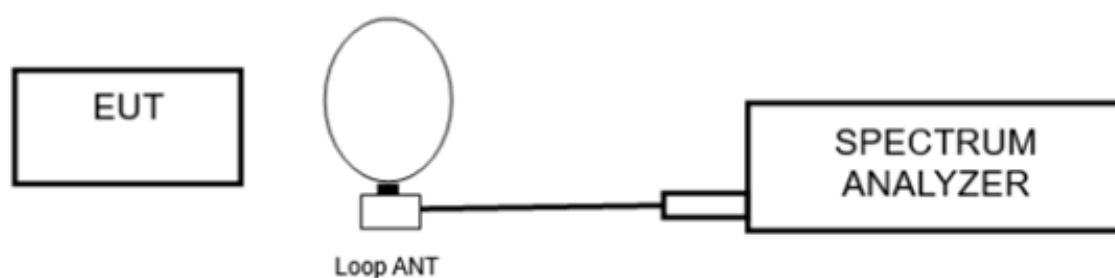
#### 3.3.1 Test standard

FCC Part 15.215(c)

#### 3.3.2 Test Procedure

| Test Method                                            |                                            |
|--------------------------------------------------------|--------------------------------------------|
| <input checked="" type="radio"/> Conducted Measurement | <input type="radio"/> Radiated Measurement |
| Environmental Conditions                               |                                            |
| <input checked="" type="radio"/> Normal                | <input type="radio"/> Normal and Extreme   |
| Note: ● : Test    ○ : No Test                          |                                            |

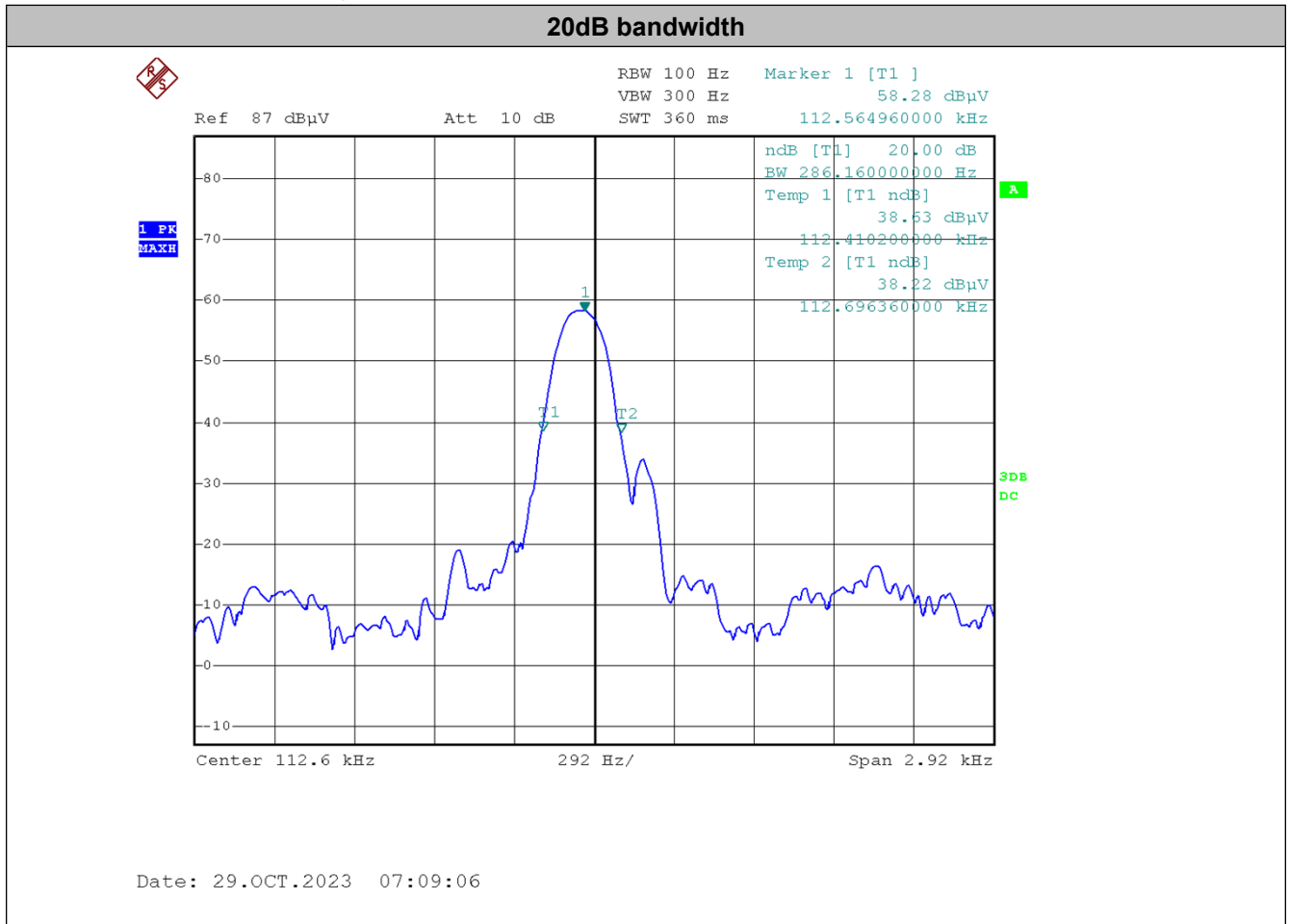
#### 3.3.3 Test Setup



#### 3.3.4 Test results

| Test mode | 20dB bandwidth (kHz) |
|-----------|----------------------|
| A         | 0.286                |

For details refer to following test result.



## 4. Antenna Requirement

### Test Specification

Test standard : Part 15.203

According to the manufacturer declared, the EUT has a Coil 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.