

# TEST REPORT

Report No.: **BCTC2312416109-1E**

Applicant: **Zhaohezi Technology Ltd**

Product Name: **Wireless Charger**

Test Model: **LP-1**

Tested Date: **2023-12-12 to 2024-01-31**

Issued Date: **2024-01-31**

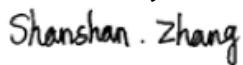
**Shenzhen BCTC Testing Co., Ltd.**



## FCC ID: 2BEUQ-LP-1

Product Name: Wireless Charger  
Trademark: N/A  
Model/Type Reference: LP-1  
Prepared For: Zhaohezi Technology Ltd  
Address: No.5-110, Qianhai E-hub, Nanshan Dist. Shenzhen 518000, China  
Manufacturer: Zhaohezi Technology Ltd  
Address: No.5-110, Qianhai E-hub, Nanshan Dist. Shenzhen 518000, China  
Prepared By: Shenzhen BCTC Testing Co., Ltd.  
Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China  
Sample Received Date: 2023-12-12  
Sample Tested Date: 2023-12-12 to 2024-01-31  
Issue Date: 2024-01-31  
Report No.: BCTC2312416109-1E  
Test Standards: FCC Part 18  
FCC/OET MP-5  
Test Results: PASS

Tested by:



Shanshan. Zhang / Project Handler

Approved by:



Zero Zhou/Reviewer

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(Note: N/A Means Not Applicable)

## 1. Version

| Report No.        | Issue Date | Description | Approved |
|-------------------|------------|-------------|----------|
| BCTC2312416109-1E | 2024-01-31 | Original    | Valid    |
|                   |            |             |          |

## 2. Test Summary

The Product has been tested according to the following specifications:

| Standard   | Test Item             | Test result |
|------------|-----------------------|-------------|
| FCC 18.307 | Conducted Emission    | Pass        |
| FCC 18.305 | Radiated Emission     | Pass        |
| FCC 18.301 | Operating frequencies | Pass        |

### 3. Measurement Uncertainty

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

| No. | Item  | Uncertainty            |
|-----|---|------------------------|
| 1   | 3m chamber Radiated spurious emission(30MHz-1GHz) | $U=4.3\text{dB}$       |
| 2   | Radiated Emission(9kHz-30MHz)                     | $U=4.8\text{dB}$       |
| 3   | Conducted Emission (150kHz-30MHz)                 | $U=3.2\text{dB}$       |
| 4   | humidity uncertainty                              | $U=5.3\%$              |
| 5   | Temperature uncertainty                           | $U=0.59^\circ\text{C}$ |

CO.LTD

## 4. Product Information And Test Setup

### 4.1 Product Information

Model/Type Reference: LP-1  
Model Differences: N/A  
Hardware Version: N/A  
Software Version: N/A  
Operation Frequency: 6.78MHz  
Modulation: ASK  
Antenna installation: PCB antenna  
Ratings: Input: DC 12V/0.2A Max from adapter  
Output: DC 5V, 0.5A Max, 2.5W Max

### 4.2 Support Equipment

| No. | Device Type      | Brand | Model | Series No. | Note      |
|-----|------------------|-------|-------|------------|-----------|
| E-1 | Wireless Charger | N/A   | LP-1  | N/A        | EUT       |
| E-2 | ADAPTER          | N/A   | N/A   | N/A        | Auxiliary |
| E-3 | Load             | N/A   | N/A   | N/A        | Auxiliary |

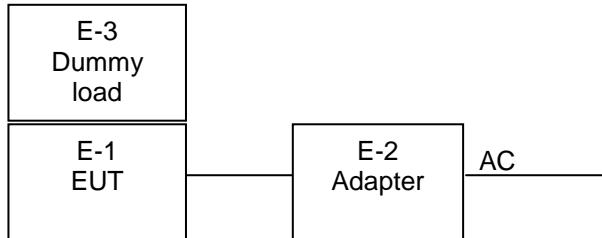
Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

#### 4.3 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

Conducted Emission and Radiated Spurious Emission::



#### 4.4 Test Mode

| Test item                         | Test Mode         | Test Voltage |
|-----------------------------------|-------------------|--------------|
| Conducted Emission (150KHz-30MHz) | Wireless Charging | AC 120V/60Hz |
| Radiated Emission(9kHz-30MHz)     | Wireless Charging | AC 120V/60Hz |

## 5. Test Facility And Test Instrument Used

### 5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Tangwei, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

### 5.2 Test Instrument Used

| Conducted Emission Test |              |             |             |                |                |
|-------------------------|--------------|-------------|-------------|----------------|----------------|
| Equipment               | Manufacturer | Model#      | Serial#     | Last Cal.      | Next Cal.      |
| Receiver                | R&S          | ESR3        | 102075      | May 15, 2023   | May 14, 2024   |
| LISN                    | R&S          | ENV216      | 101375      | May 15, 2023   | May 14, 2024   |
| Software                | Frad         | EZ-EMC      | EMC-CON 3A1 | \              | \              |
| Pulse limiter           | Schwarzbeck  | VTSD 9561-F | 01323       | Sept. 22, 2023 | Sept. 21, 2024 |

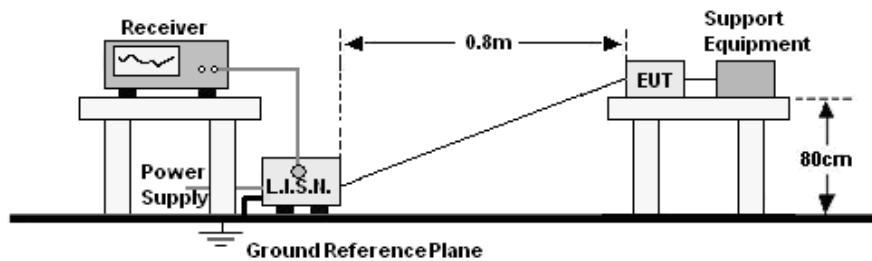
  

| Radiated Emissions Test (966 Chamber01) |              |                   |              |              |              |
|---|--------------|-------------------|--------------|--------------|--------------|
| Equipment                               | Manufacturer | Model#            | Serial#      | Last Cal.    | Next Cal.    |
| 966 chamber                             | ChengYu      | 966 Room          | 966          | May 15, 2023 | May 14, 2026 |
| Receiver                                | R&S          | ESR3              | 102075       | May 15, 2023 | May 14, 2024 |
| Receiver                                | R&S          | ESRP              | 101154       | May 15, 2023 | May 14, 2024 |
| Amplifier                               | Schwarzbeck  | BBV9744           | 9744-0037    | May 15, 2023 | May 14, 2024 |
| TRILOG Broadband Antenna                | Schwarzbeck  | VULB9163          | 942          | May 29, 2023 | May 28, 2024 |
| Loop Antenna(9KHz -30MHz)               | Schwarzbeck  | FMZB1519B         | 00014        | May 31, 2023 | May 30, 2024 |
| Amplifier                               | SKET         | LAPA_01G18 G-45dB | SK2021040901 | May 15, 2023 | May 14, 2024 |
| Horn Antenna                            | Schwarzbeck  | BBHA9120D         | 1541         | May 31, 2023 | May 30, 2024 |
| Amplifier(18G Hz-40GHz)                 | MITEQ        | TTA1840-35-HG     | 2034381      | May 15, 2023 | May 14, 2024 |
| Horn Antenna(18G Hz-40GHz)              | Schwarzbeck  | BBHA9170          | 00822        | May 31, 2023 | May 30, 2024 |
| Spectrum Analyzer9KHz-40GHz             | R&S          | FSP40             | 100363       | May 15, 2023 | May 14, 2024 |
| Software                                | Frad         | EZ-EMC            | FA-03A2 RE   | \            | \            |

## 6. Conducted Emission At The Mains Terminals Test

### 6.1 Block Diagram Of Test Setup

For mains ports:



### 6.2 Limit

#### Limits for Class B devices

| (MHz)        | Limits dB( $\mu$ V) |           |
|--------------|---------------------|-----------|
|              | Quasi-peak          | Average   |
| 0,15 to 0,50 | 66 to 56*           | 56 to 46* |
| 0,50 to 5    | 56                  | 46        |
| 5 to 30      | 60                  | 50        |

Notes: 1. \*Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

### 6.3 Test procedure

For mains ports:

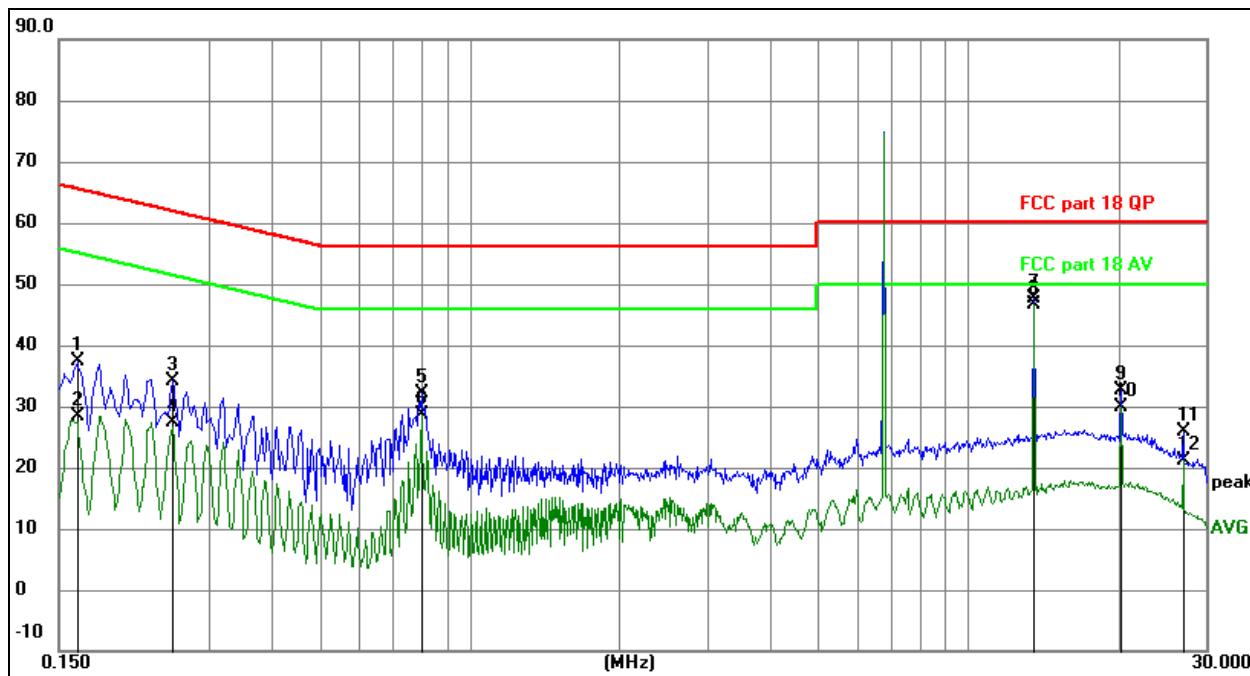
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.I.N.).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.
- For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.

9KHz-150KHz:

Remark: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

## 6.4 Test Result

|                |              |                    |                   |
|----------------|--------------|--------------------|-------------------|
| Temperature:   | 26 °C        | Relative Humidity: | 54%               |
| Pressure:      | 101kPa       | Phase :            | Line              |
| Test Voltage : | AC 120V/60Hz | Test Mode:         | Wireless Charging |

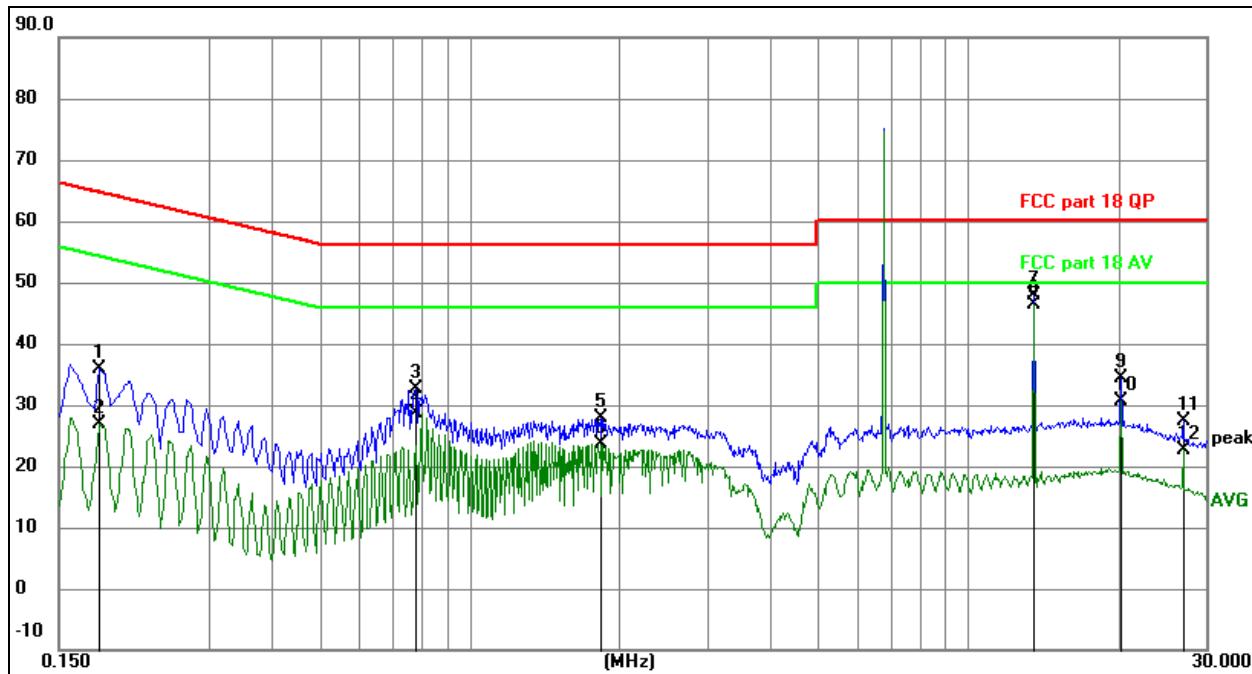


### Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

| No. | Mk. | Freq.   | Reading | Correct | Measure- | Limit | Over   | Detector |
|-----|-----|---------|---------|---------|----------|-------|--------|----------|
|     |     |         | Level   | Factor  | ment     |       |        |          |
|     |     | MHz     |         | dB      | dBuV     | dBuV  | dB     |          |
| 1   |     | 0.1632  | 17.53   | 19.76   | 37.29    | 65.30 | -28.01 | QP       |
| 2   |     | 0.1632  | 8.65    | 19.76   | 28.41    | 55.30 | -26.89 | AVG      |
| 3   |     | 0.2534  | 14.33   | 19.83   | 34.16    | 61.64 | -27.48 | QP       |
| 4   |     | 0.2534  | 7.52    | 19.83   | 27.35    | 51.64 | -24.29 | AVG      |
| 5   |     | 0.8002  | 12.15   | 19.88   | 32.03    | 56.00 | -23.97 | QP       |
| 6   |     | 0.8002  | 8.64    | 19.88   | 28.52    | 46.00 | -17.48 | AVG      |
| 7   |     | 13.5508 | 27.86   | 19.88   | 47.74    | 60.00 | -12.26 | QP       |
| 8 * |     | 13.5508 | 26.77   | 19.88   | 46.65    | 50.00 | -3.35  | AVG      |
| 9   |     | 20.2695 | 12.74   | 19.99   | 32.73    | 60.00 | -27.27 | QP       |
| 10  |     | 20.2695 | 9.84    | 19.99   | 29.83    | 50.00 | -20.17 | AVG      |
| 11  |     | 26.9833 | 5.97    | 19.99   | 25.96    | 60.00 | -34.04 | QP       |
| 12  |     | 26.9833 | 1.24    | 19.99   | 21.23    | 50.00 | -28.77 | AVG      |

|                |              |                    |                   |
|----------------|--------------|--------------------|-------------------|
| Temperature:   | 26 °C        | Relative Humidity: | 54%               |
| Pressure:      | 101kPa       | Phase :            | Neutral           |
| Test Voltage : | AC 120V/60Hz | Test Mode:         | Wireless Charging |


**Remark:**

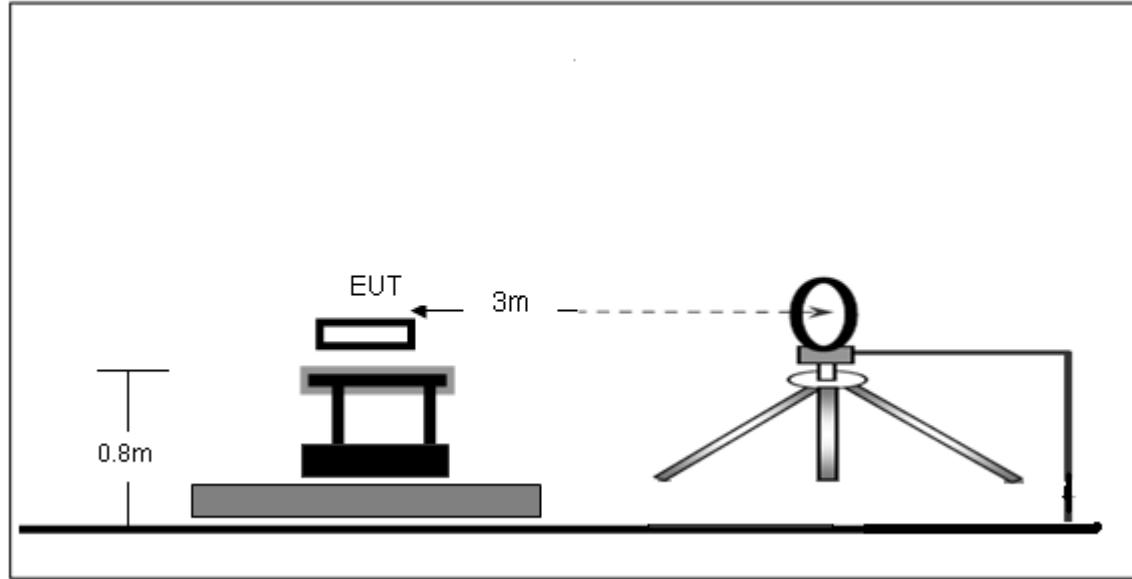
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

| No. | Mk. | Freq.   | Reading | Correct | Measure- | Limit | Over   | Detector |
|-----|-----|---------|---------|---------|----------|-------|--------|----------|
|     |     |         | Level   | Factor  | ment     |       |        |          |
|     |     |         | MHz     | dB      | dBuV     | dBuV  | dB     |          |
| 1   |     | 0.1804  | 16.04   | 19.79   | 35.83    | 64.47 | -28.64 | QP       |
| 2   |     | 0.1804  | 7.07    | 19.79   | 26.86    | 54.47 | -27.61 | AVG      |
| 3   |     | 0.7792  | 12.74   | 19.87   | 32.61    | 56.00 | -23.39 | QP       |
| 4   |     | 0.7792  | 8.67    | 19.87   | 28.54    | 46.00 | -17.46 | AVG      |
| 5   |     | 1.8287  | 7.85    | 19.95   | 27.80    | 56.00 | -28.20 | QP       |
| 6   |     | 1.8287  | 3.60    | 19.95   | 23.55    | 46.00 | -22.45 | AVG      |
| 7   |     | 13.5508 | 27.90   | 19.88   | 47.78    | 60.00 | -12.22 | QP       |
| 8   | *   | 13.5508 | 26.59   | 19.88   | 46.47    | 50.00 | -3.53  | AVG      |
| 9   |     | 20.2695 | 14.48   | 19.99   | 34.47    | 60.00 | -25.53 | QP       |
| 10  |     | 20.2695 | 10.58   | 19.99   | 30.57    | 50.00 | -19.43 | AVG      |
| 11  |     | 26.9835 | 7.48    | 19.99   | 27.47    | 60.00 | -32.53 | QP       |
| 12  |     | 26.9835 | 2.72    | 19.99   | 22.71    | 50.00 | -27.29 | AVG      |

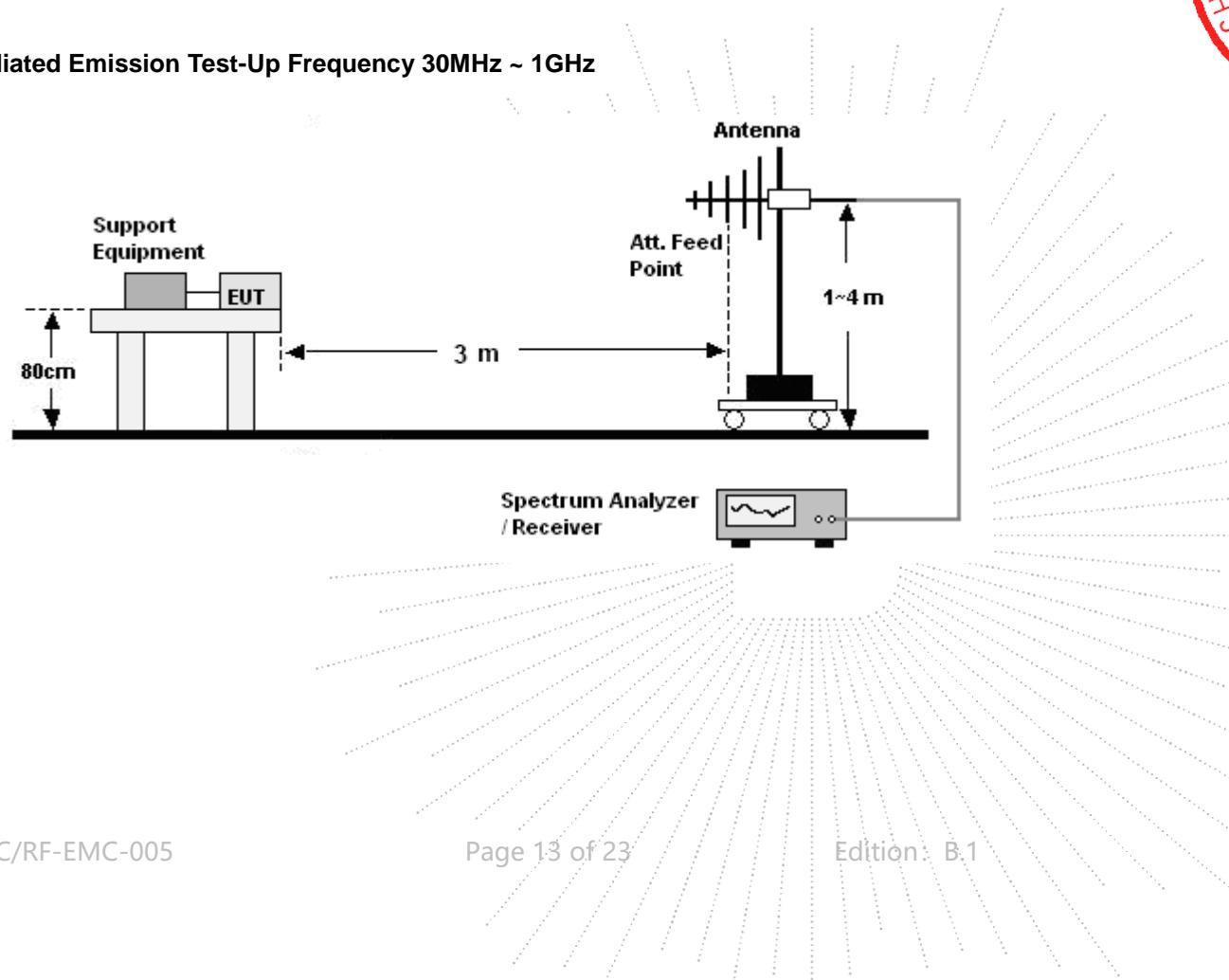
## 7. Radiation Emission Test

### 7.1 Block Diagram Of Test Setup

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



#### (B) Radiated Emission Test-Up Frequency 30MHz ~ 1GHz



## 7.2 Limit

| Equipment   | Operating frequency                        | RF Power generated by equipment (watts) | Field strength limit (uV/m)                     | Distance (meters)         |
|---|--|---|---|---------------------------|
| Any type unless otherwise specified (miscellaneous) | Any ISM frequency                          | Below 500<br>500 or more                | 25<br>25 × SQRT(power/500)                      | 300<br>1300               |
|   | Any non-ISM frequency                      | Below 500<br>500 or more                | 15<br>15 × SQRT(power/500)                      | 300<br>1300               |
| Industrial heaters and RF stabilized arc welders    | On or below 5,725 MHz<br>Above 5,725 MHz   | Any<br>Any                              | 10<br>( <sup>2</sup> )                          | 1,600<br>( <sup>2</sup> ) |
| Medical diathermy                                   | Any ISM frequency<br>Any non-ISM frequency | Any<br>Any                              | 25<br>15  | 300<br>300                |
| Ultrasonic  | Below 490 kHz                              | Below 500<br>500 or more                | 2,400/F(kHz)<br>2,400/F(kHz) × SQRT (power/500) | 300<br>3300               |
|   | 490 to 1,600 kHz<br>Above 1,600 kHz        | Any<br>Any                              | 24,000/F(kHz)<br>15                             | 30<br>30                  |
| Induction cooking ranges                            | Below 90 kHz<br>On or above 90 kHz         | Any<br>Any                              | 1,500<br>300                                    | 430<br>430                |

## 7.3 Frequency range of measurements

(a) For field strength measurements:

| Frequency band in which device operates (MHz) | Range of frequency measurements   |   |
|---|---|---|
|   | Lowest frequency  | Highest frequency                                 |
| Below 1.705                                   | Lowest frequency generated in the device, but not lower than 9 kHz      | 30 MHz.   |
| 1.705 to 30                                   | Lowest frequency generated in the device, but not lower than 9 kHz      | 400 MHz.  |
| 30 to 500                                     | Lowest frequency generated in the device or 25 MHz, whichever is lower  | Tenth harmonic or 1,000 MHz, whichever is higher. |
| 500 to 1,000                                  | Lowest frequency generated in the device or 100 MHz, whichever is lower | Tenth harmonic.                                   |
| Above 1,000                                   | .....do   | Tenth harmonic or highest detectable emission.    |

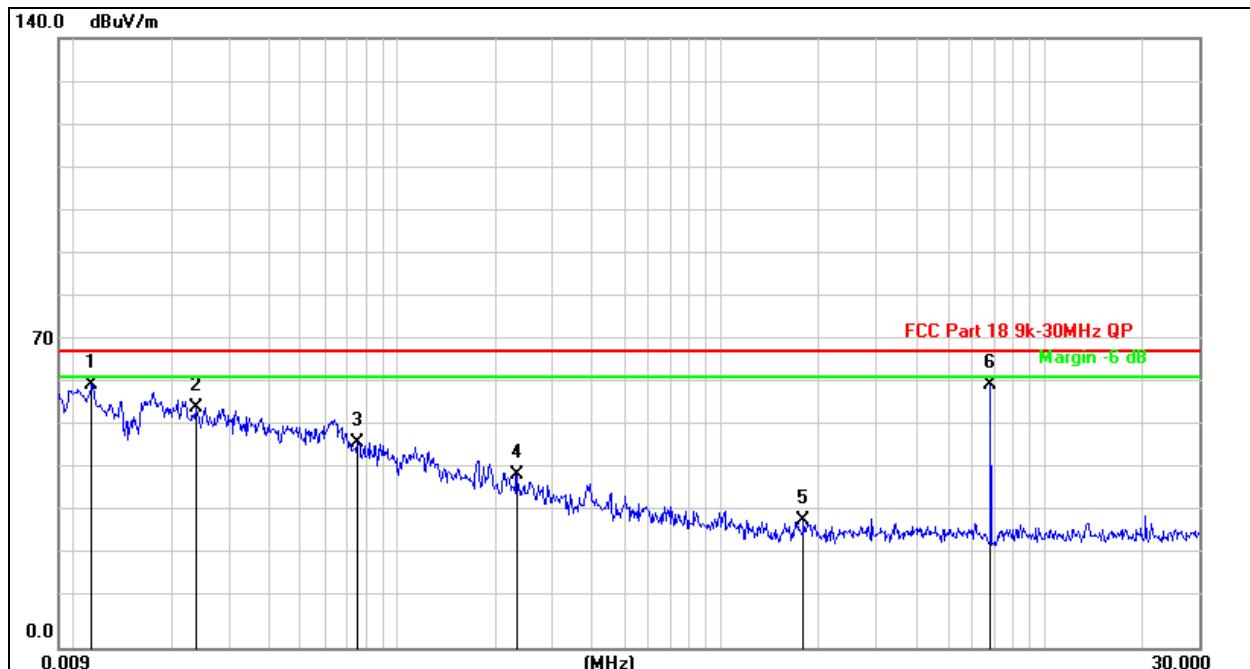
## 7.4 Test Procedure

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna (calibrated by dipole antenna) are used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement.

## 7.5 Test Result

### 9kHz-30MHz

|                |              |                    |                     |
|----------------|--------------|--------------------|---------------------|
| Temperature:   | 26 °C        | Relative Humidity: | 54%                 |
| Pressure:      | 101KPa       | Polarization:      | Coaxial(Worst case) |
| Test Voltage : | AC 120V/60Hz | Test Mode:         | Wireless Charging   |



#### Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

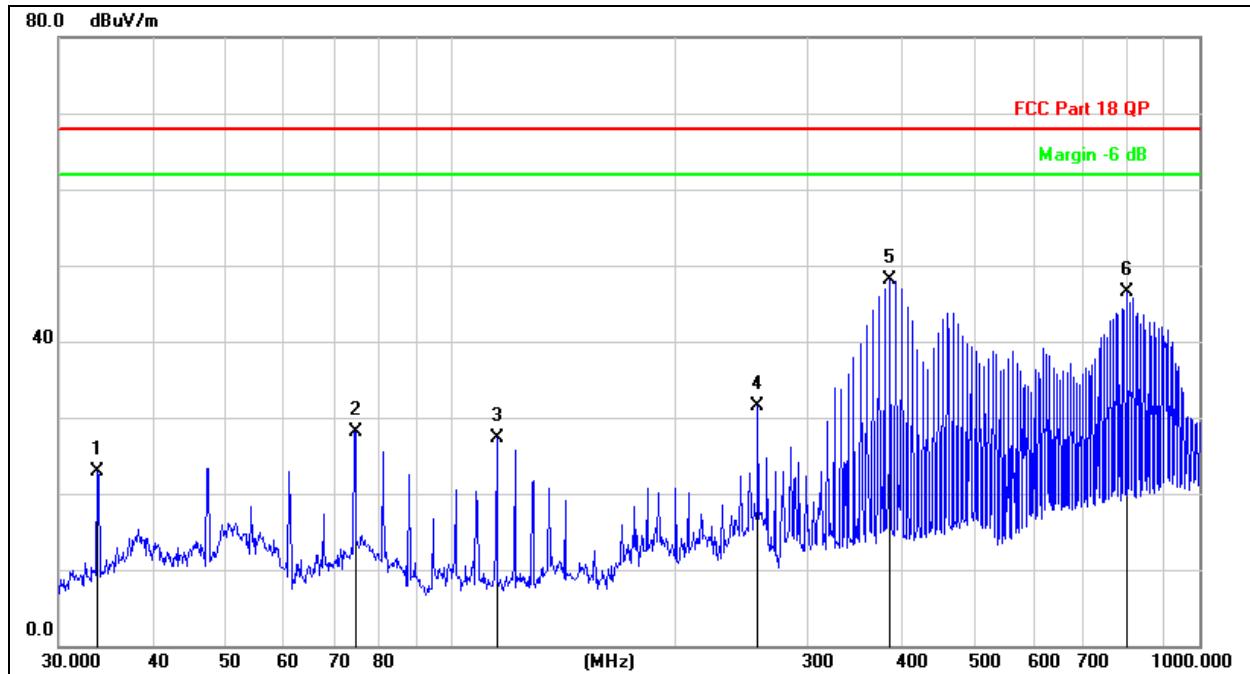
| No. | Mk. | Freq.  | Reading | Correct | Measure- | Limit | Over   |          |
|-----|-----|--------|---------|---------|----------|-------|--------|----------|
|     |     |        | Level   | Factor  | ment     |       |        |          |
|     |     | MHz    | dBuV    | dB      | dBuV/m   | dB/m  | dB     | Detector |
| 1   | *   | 0.0114 | 67.83   | -7.46   | 60.37    | 67.96 | -7.59  | QP       |
| 2   |     | 0.0238 | 62.71   | -7.46   | 55.25    | 67.96 | -12.71 | QP       |
| 3   |     | 0.0752 | 54.81   | -7.66   | 47.15    | 67.96 | -20.81 | QP       |
| 4   |     | 0.2346 | 47.42   | -7.76   | 39.66    | 67.96 | -28.30 | QP       |
| 5   |     | 1.7976 | 36.57   | -7.33   | 29.24    | 67.96 | -38.72 | QP       |
| 6   |     | 6.7987 | 67.44   | -7.13   | 60.31    | 67.96 | -7.65  | QP       |

Note:

Limit(dBuV/m)=  $20\log(25) + 20\log(300/3) = 67.96\text{dBuV/m}$ .

**30MHz-1GHz:**

|                |              |                    |                   |
|----------------|--------------|--------------------|-------------------|
| Temperature:   | 26 °C        | Relative Humidity: | 54%               |
| Pressure:      | 101KPa       | Phase:             | Horizontal        |
| Test Voltage : | AC 120V/60Hz | Test Mode:         | Wireless Charging |


**Remark:**

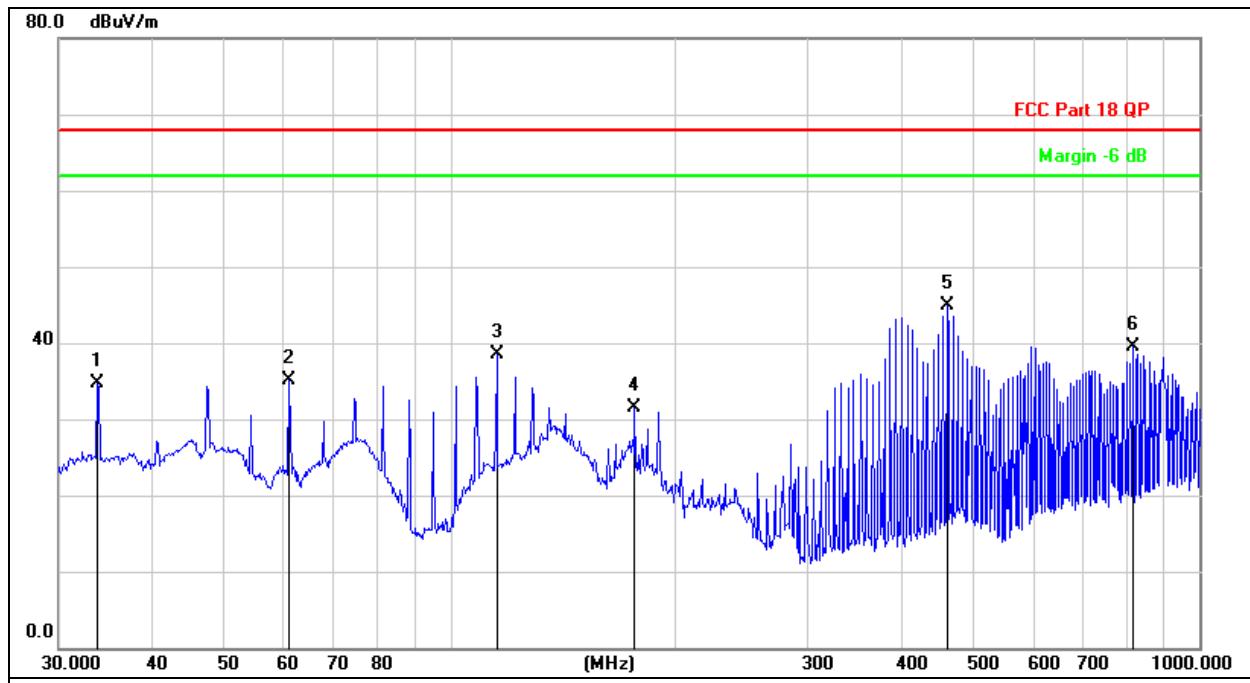
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

| No. | Mk. | Freq.    | Reading | Correct | Measure- | Limit | Over   |          |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|
|     |     |          | Level   | Factor  | ment     |       |        |          |
|     |     | MHz      | dBuV    | dB      | dBuV/m   | dB/m  | dB     | Detector |
| 1   |     | 33.7986  | 38.80   | -15.92  | 22.88    | 67.96 | -45.08 | QP       |
| 2   |     | 74.6569  | 46.90   | -18.81  | 28.09    | 67.96 | -39.87 | QP       |
| 3   |     | 115.3205 | 44.28   | -17.00  | 27.28    | 67.96 | -40.68 | QP       |
| 4   |     | 257.4222 | 45.71   | -14.13  | 31.58    | 67.96 | -36.38 | QP       |
| 5   | *   | 386.6338 | 59.13   | -11.01  | 48.12    | 67.96 | -19.84 | QP       |
| 6   |     | 801.7863 | 50.90   | -4.38   | 46.52    | 67.96 | -21.44 | QP       |

**Note:**

$$\text{Limit(dBuV/m)} = 20\log(25) + 20\log(300/3) = 67.96 \text{ dBuV/m.}$$

|                |              |                    |                   |
|----------------|--------------|--------------------|-------------------|
| Temperature:   | 26 °C        | Relative Humidity: | 54%               |
| Pressure:      | 101KPa       | Phase:             | Vertical          |
| Test Voltage : | AC 120V/60Hz | Test Mode:         | Wireless Charging |


**Remark:**

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Measurement = Reading Level + Correct Factor
3. Over = Measurement - Limit

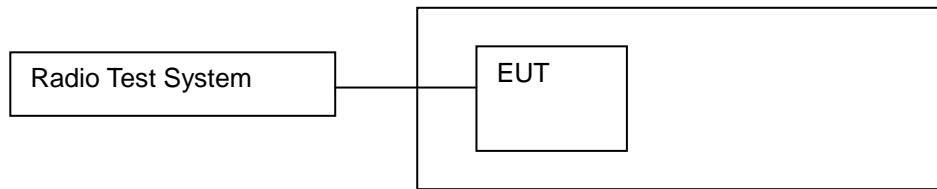
| No. | Mk. | Freq.    | Reading | Correct | Measure- | Limit | Over   |          |
|-----|-----|----------|---------|---------|----------|-------|--------|----------|
|     |     |          | Level   | Factor  | ment     |       |        |          |
|     |     | MHz      | dBuV    | dB      | dBuV/m   | dB/m  | dB     | Detector |
| 1   |     | 33.7986  | 50.60   | -15.92  | 34.68    | 67.96 | -33.28 | QP       |
| 2   |     | 60.9176  | 50.62   | -15.50  | 35.12    | 67.96 | -32.84 | QP       |
| 3   |     | 115.3205 | 55.51   | -17.00  | 38.51    | 67.96 | -29.45 | QP       |
| 4   |     | 176.2686 | 49.01   | -17.48  | 31.53    | 67.96 | -36.43 | QP       |
| 5   | *   | 460.7271 | 54.47   | -9.59   | 44.88    | 67.96 | -23.08 | QP       |
| 6   |     | 815.9678 | 43.68   | -4.27   | 39.41    | 67.96 | -28.55 | QP       |

**Note:**

$$\text{Limit(dBuV/m)} = 20\log(25) + 20\log(300/3) = 67.96 \text{ dBuV/m.}$$

## 8. Permitted Range Of Operating Frequencies

### 8.1 Block Diagram Of Test Setup



### 8.2 Limit

| ISM frequency | Tolerance   |
|---------------|-------------|
| 6.78 MHz      | ± 15.0 kHz  |
| 13.56 MHz     | ± 7.0 kHz   |
| 27.12 MHz     | ± 163.0 kHz |
| 40.68 MHz     | ± 20.0 kHz  |
| 915 MHz       | ± 13.0 MHz  |
| 2450 MHz      | ± 50.0 MHz  |
| 5800 MHz      | ± 75.0 MHz  |
| 24.125 GHz    | ± 125.0 MHz |
| 61.25 GHz     | ± 250.0 MHz |
| 122.50 GHz    | ± 500.0 MHz |
| 245.00 GHz    | ± 1.0 GHz   |

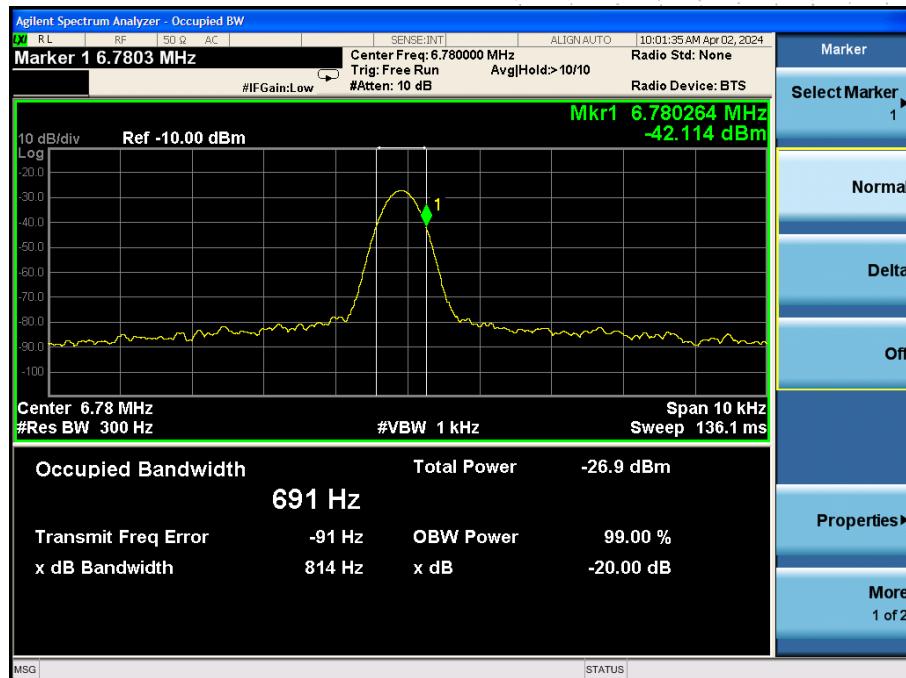
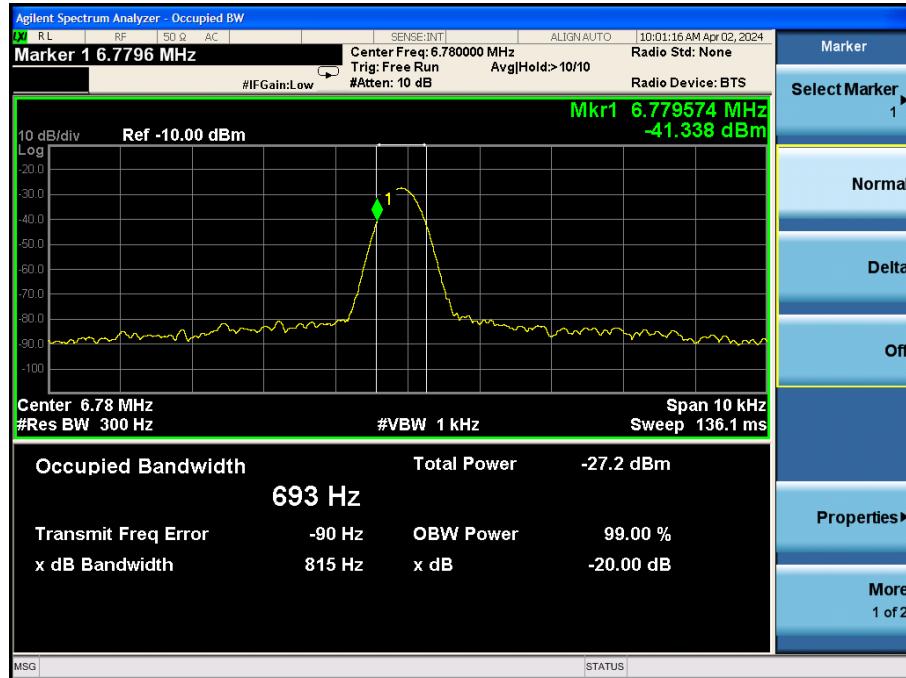
### 8.3 Test Procedure

- put the spectrum analyzer in video averaging mode with a minimum of 50 sweeps selected;
- select the lowest operating frequency of the equipment under test and activate the transmitter with modulation applied. The RF emission of the equipment shall be displayed on the spectrum analyzer;
- using the marker of the spectrum analyzer, find the lowest frequency below the operating frequency at which the spectral power density drops below the level given in clause 4.2.3. This frequency shall be recorded in the test report;
- select the highest operating frequency of the equipment under test and find the highest frequency at which the spectral power density drops below the value given in clause 4.2.3. This frequency shall be recorded in the test report;
- the difference between the frequencies measured in steps c) and d) is the operating frequency range. It shall be recorded in the test report.

#### 8.4 Test Result

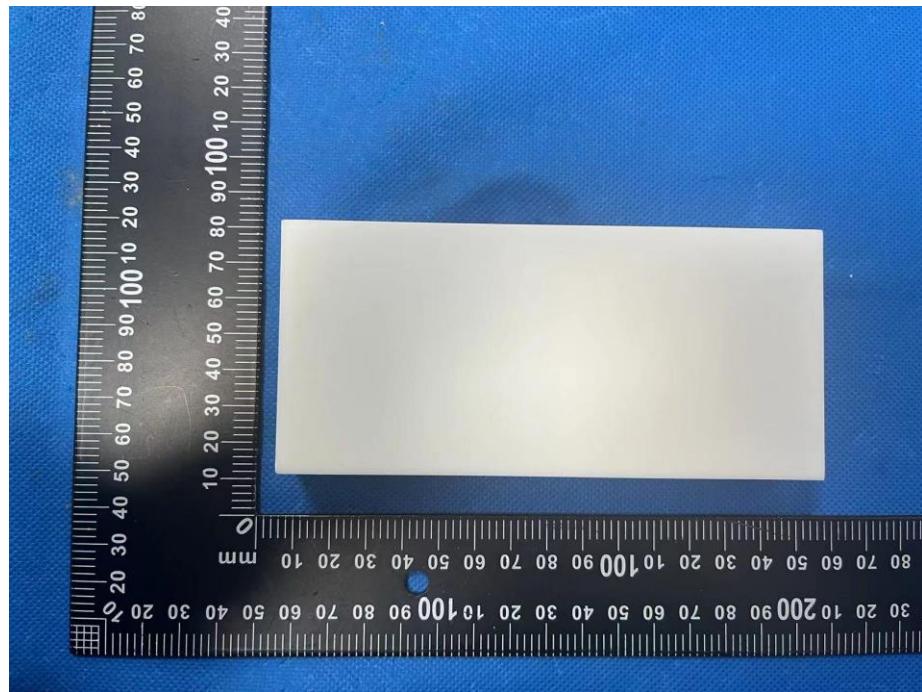
| Center Frequency | Lowest Frequency (fL) (MHz) | Highest Frequency (fH) (MHz) | Tolerance (kHz) | Result | Limit (kHz) |
|------------------|-----------------------------|------------------------------|-----------------|--------|-------------|
| 6.78MHz          | 6.7796                      | /                            | -0.0004         | Pass   | ±15         |
| 6.78MHz          | /                           | 6.7803                       | 0.0003          | Pass   |             |

Tolerance= Lowest Frequency/ Highest Frequency - Center Frequency



## 9. EUT Photographs

EUT Photo 1



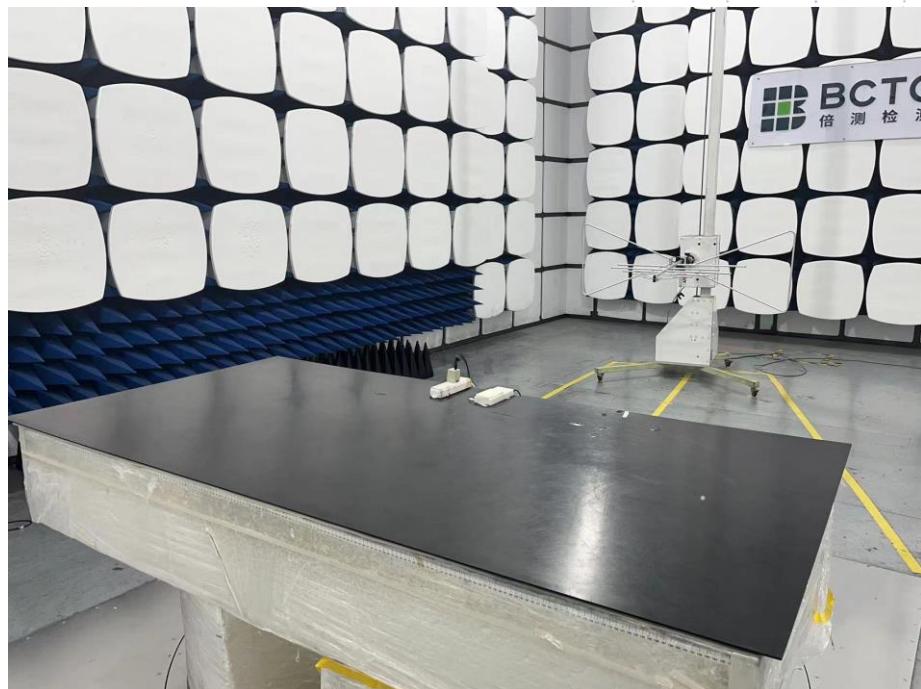
NOTE: Appendix-Photographs Of EUT Constructional Details

## 10. EUT Test Setup Photographs

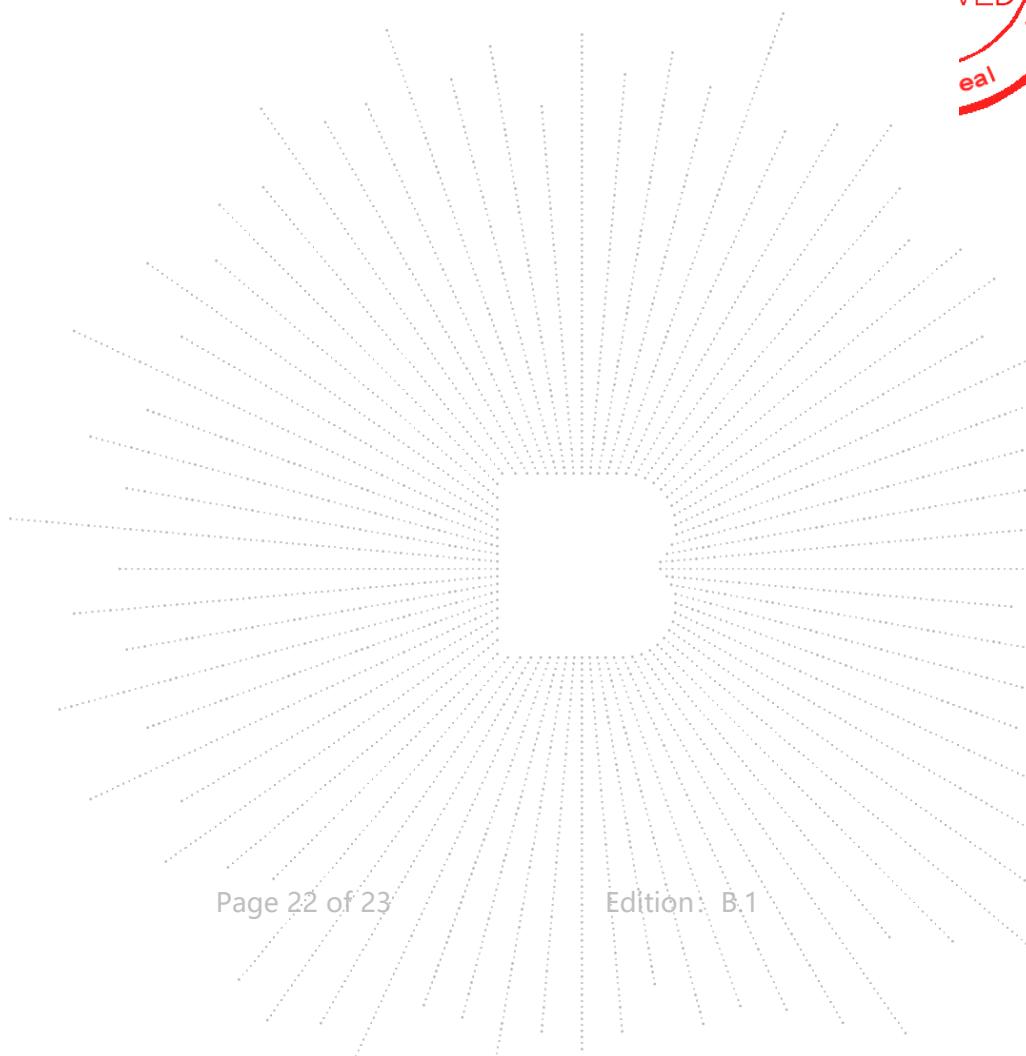
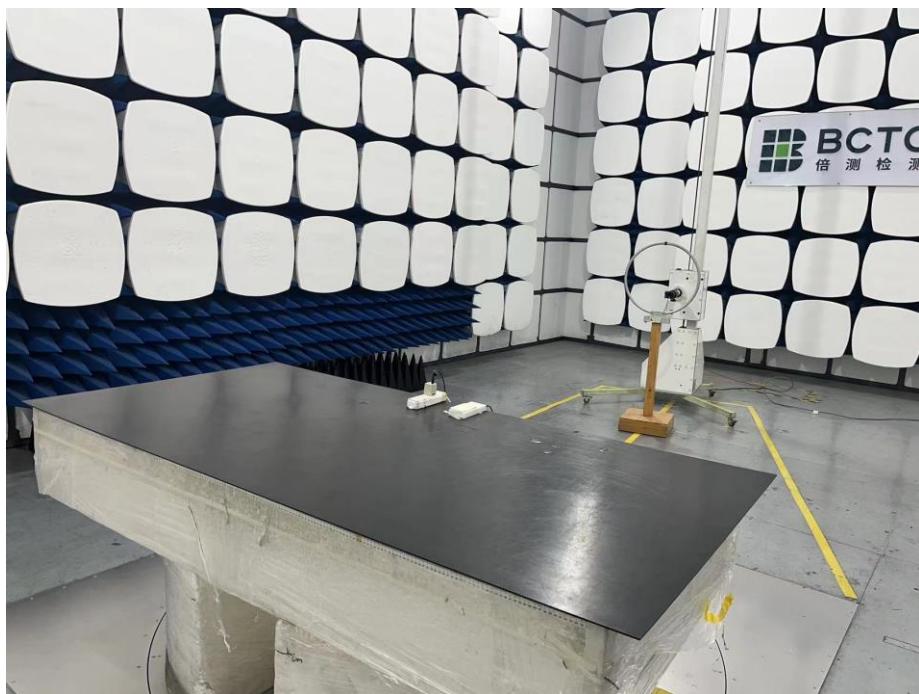
Conducted emission



Radiated emission



Radiated emission



**STATEMENT**

1. The equipment lists are traceable to the national reference standards.
2. The test report can not be partially copied unless prior written approval is issued from our lab.
3. The test report is invalid without the "special seal for inspection and testing".
4. The test report is invalid without the signature of the approver.
5. The test process and test result is only related to the Unit Under Test.
6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
7. The quality system of our laboratory is in accordance with ISO/IEC17025.
8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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