

# TEST REPORT

Report No.: BCTC2312193307-1E

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Applicant: Shenzhen Baseus Technology Co., Ltd.

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Product Name: Power Bank

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Test Model: PPCXZ05

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Tested Date: 2023-12-22 to 2023-12-25

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Issued Date: 2024-01-02

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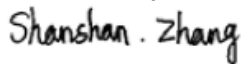
**Shenzhen BCTC Testing Co., Ltd.**



**FCC ID: 2A482-PPCXZ05A**

Product Name: Power Bank  
Trademark: baseus  
Model/Type Reference: PPCXZ05  
Prepared For: Shenzhen Baseus Technology Co., Ltd.  
Address: 2nd Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen, China  
Manufacturer: Shenzhen Baseus Technology Co., Ltd.  
Address: 2nd Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen, 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: 2023-12-22  
Sample Tested Date: 2023-12-22 to 2023-12-25  
Issue Date: 2024-01-02  
Report No.: BCTC2312193307-1E  
Test Standards: FCC Part15.209  
ANSI C63.10-2013  
Test Results: PASS

Tested by:



Shanshan. Zhang / Project Handler

Approved by:



Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

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(Note: N/A Means Not Applicable)

**1. Version**

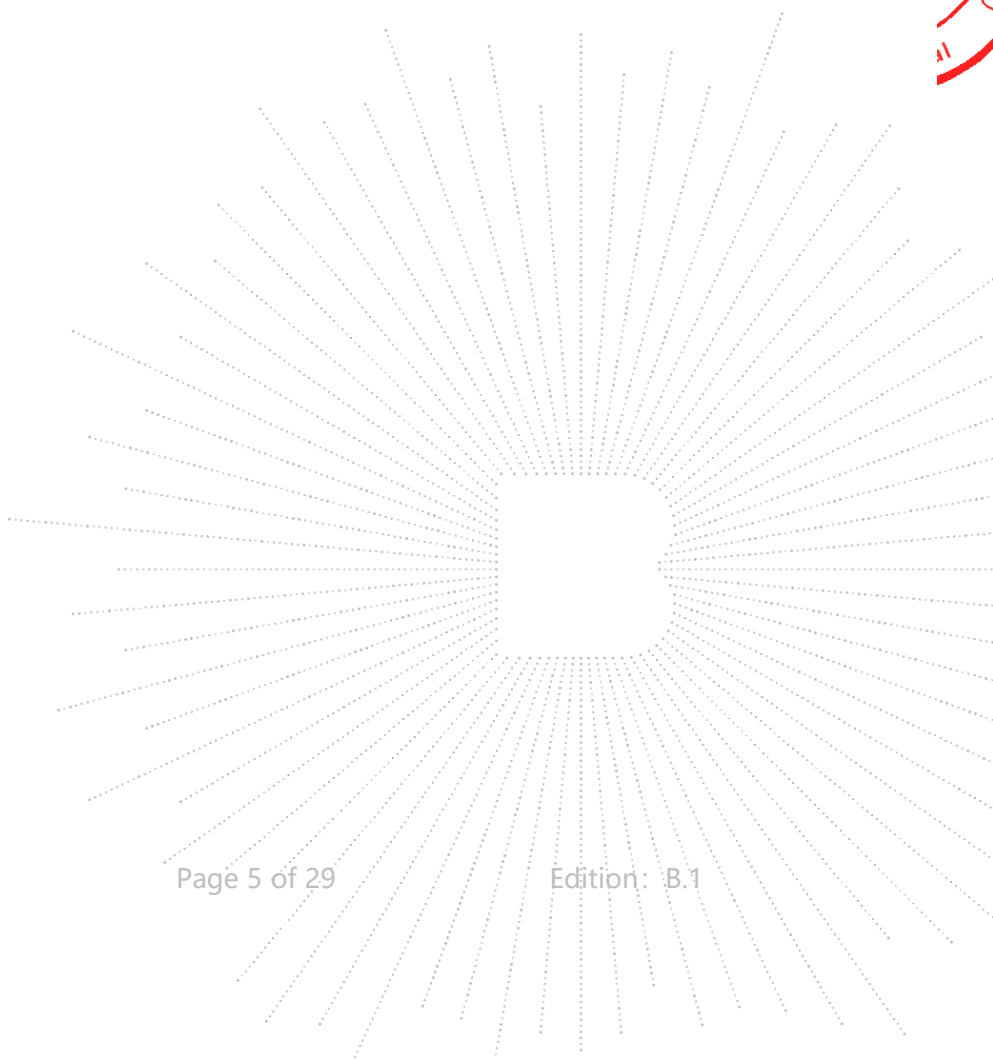
| Report No.        | Issue Date | Description | Approved |
|-------------------|------------|-------------|----------|
| BCTC2312193307-1E | 2024-01-02 | Original    | Valid    |
|                   |            |             |          |

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## 2. Test Summary

The Product has been tested according to the following specifications:

| No. | Test Parameter      | Clause No. | Results |
|-----|---------------------|------------|---------|
| 1   | Conducted Emission  | 15.207     | PASS    |
| 2   | Radiated Emission   | 15.209     | PASS    |
| 3   | 20dB Bandwidth      | 15.215     | PASS    |
| 4   | Antenna Requirement | 15.203     | 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=4.3dB     |
| 2   | Conducted Emission (150kHz-30MHz)                 | U=3.2dB     |
| 3   | humidity uncertainty                              | U=5.3%      |
| 4   | Temperature uncertainty                           | U=0.59°C    |

CO., LTD.

## 4. Product Information And Test Setup

### 4.1 Product Information

Model/Type Reference: PPCXZ05  
Model Differences: N/A  
Hardware Version: N/A  
Software Version: N/A  
Operation Frequency: 115kHz-205kHz  
Modulation: ASK  
Antenna installation: coil antenna  
Ratings: Type C Input: DC 5V/2.4A  
Type C Output: DC 5V/2.4A, 9V/2.22A, 12V/1.5A  
Wireless Output: 5W/7.5W/10W/15W  
Total Output: 5V/2.4A(Wireless charging and type C charging work simultaneously)  
Battery: DC 3.7V

### 4.2 Support Equipment

| No. | Device Type | Brand | Model   | Series No. | Note      |
|-----|-------------|-------|---------|------------|-----------|
| E-1 | Power Bank  | N/A   | PPCXZ05 | N/A        | EUT       |
| E-2 | ADAPTER     | Hoco. | N18     | N/A        | Auxiliary |
| E-3 | Dummy load  | N/A   | DL01    | N/A        | Auxiliary |

Notes:

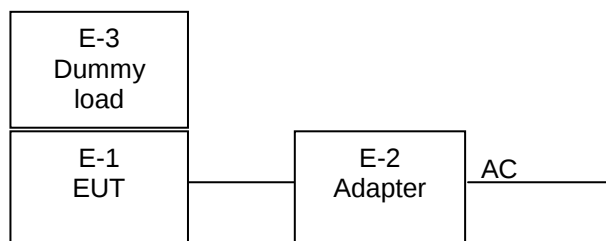
1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

### 4.3 Test Setup Configuration

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

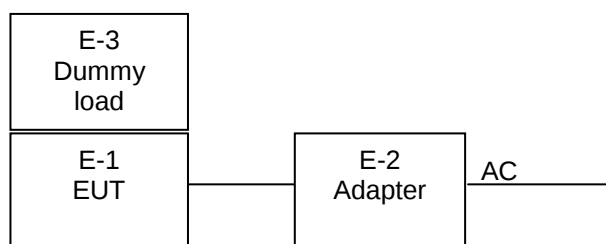
Conducted Emission:

Test Mode 1, 2, 3

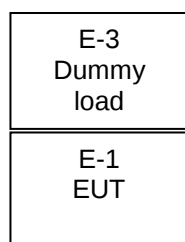


Radiated Spurious Emission:

Test Mode 1, 2, 3



Test Mode 4, 5, 6



#### 4.4 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

|         |        |                               |
|---------|--------|-------------------------------|
| AC Mode | Mode 1 | Wireless charging(Full load)  |
|         | Mode 2 | Wireless charging(Half load)  |
|         | Mode 3 | Wireless charging(Empty load) |
| DC Mode | Mode 4 | Wireless charging(Full load)  |
|         | Mode 5 | Wireless charging(Half load)  |
|         | Mode 6 | Wireless charging(Empty load) |

Note: All test mode were tested and passed, only shows the worst case mode which were recorded in this report.

## 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, Zhancheng, 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.

FCC Test Firm Registration Number: 712850

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

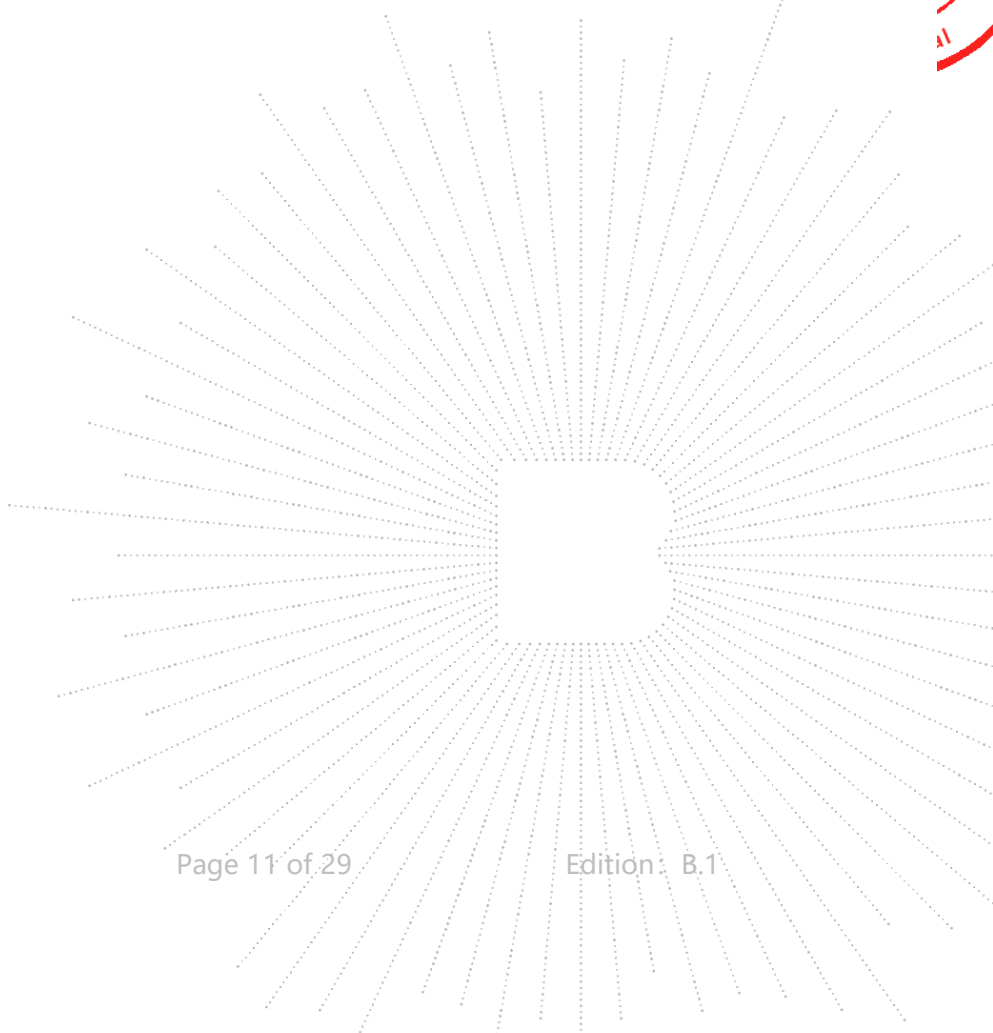
ISED CAB identifier: CN0017

### 5.2 Test Instrument Used

| Conducted Emissions 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<br>3A1 | \              | \              |
| Pulse limiter            | Schwarzbeck  | VTSD9561-F | 01323          | Sept. 22, 2023 | Sept. 21, 2024 |

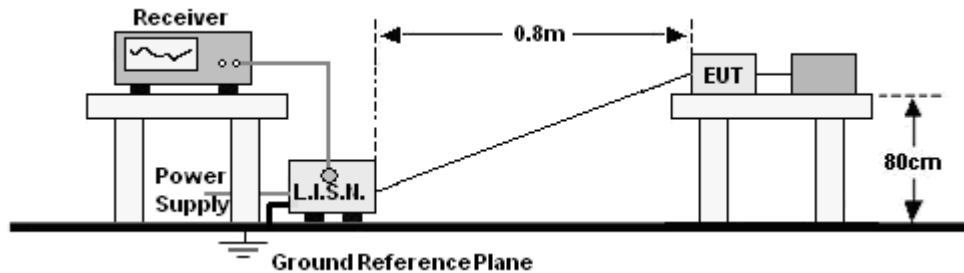
| RF Conducted Test                    |              |        |            |              |              |
|--------------------------------------|--------------|--------|------------|--------------|--------------|
| Equipment                            | Manufacturer | Model# | Serial#    | Last Cal.    | Next Cal.    |
| Power Meter                          | Keysight     | E4419  | \          | May 15, 2023 | May 14, 2024 |
| Power Sensor (AV)                    | Keysight     | E9300A | \          | May 15, 2023 | May 14, 2024 |
| Signal Analyzer<br>20kHz-26.5G<br>Hz | Keysight     | N9020A | MY49100060 | May 15, 2023 | May 14, 2024 |
| Spectrum Analyzer<br>9kHz-40GHz      | R&S          | FSP 40 | \          | May 15, 2023 | May 14, 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 | \          | 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 Emissions

### 6.1 Block Diagram Of Test Setup



### 6.2 Limit

| Frequency (MHz) | Limit (dBuV) |           |
|-----------------|--------------|-----------|
|                 | Quas-peak    | Average   |
| 0.15 -0.5       | 66 - 56 *    | 56 - 46 * |
| 0.50 -5.0       | 56.00        | 46.00     |
| 5.0 -30.0       | 60.00        | 50.00     |

Notes:  
1. \*Decreasing linearly with logarithm of frequency.  
2. The lower limit shall apply at the transition frequencies.

### 6.3 Test procedure

| Receiver Parameters | Setting  |
|---------------------|----------|
| Attenuation         | 10 dB    |
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |

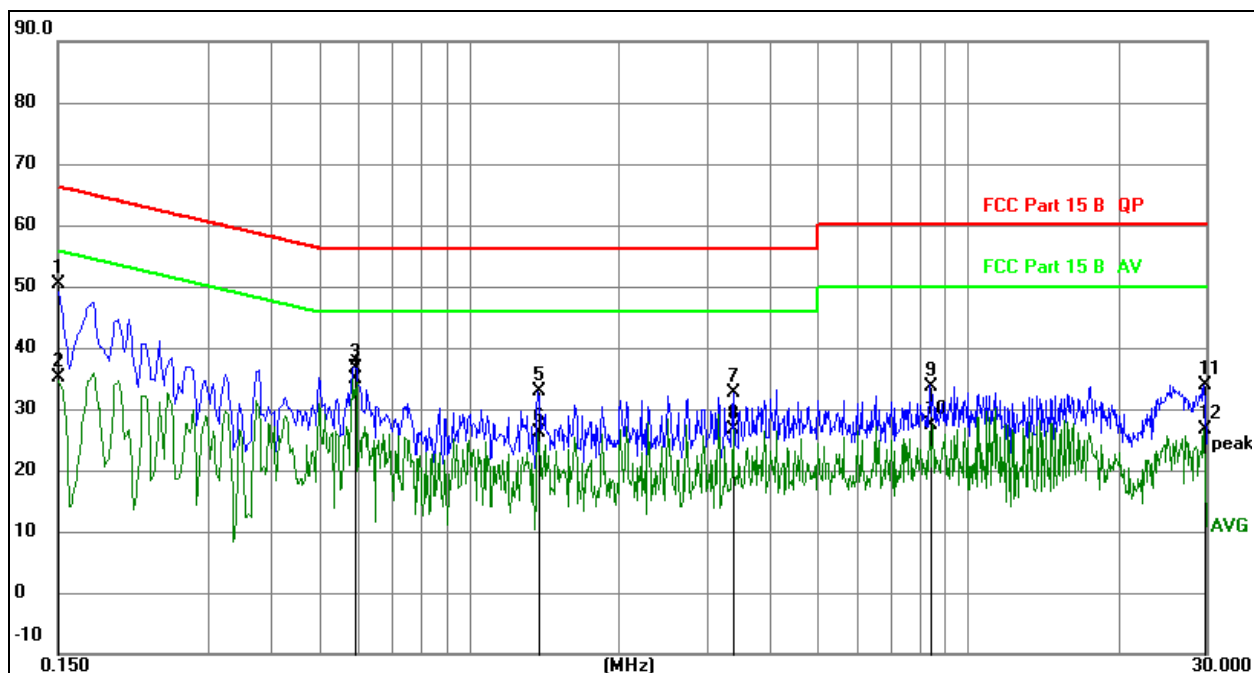
- The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).
- The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak 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.

### 6.4 EUT operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

## 6.5 Test Result

|              |        |                    |              |
|--------------|--------|--------------------|--------------|
| Temperature: | 26 °C  | Relative Humidity: | 54%          |
| Pressure:    | 101KPa | Phase :            | L            |
| Test Mode:   | Mode 1 | Test Voltage:      | AC 120V/60Hz |

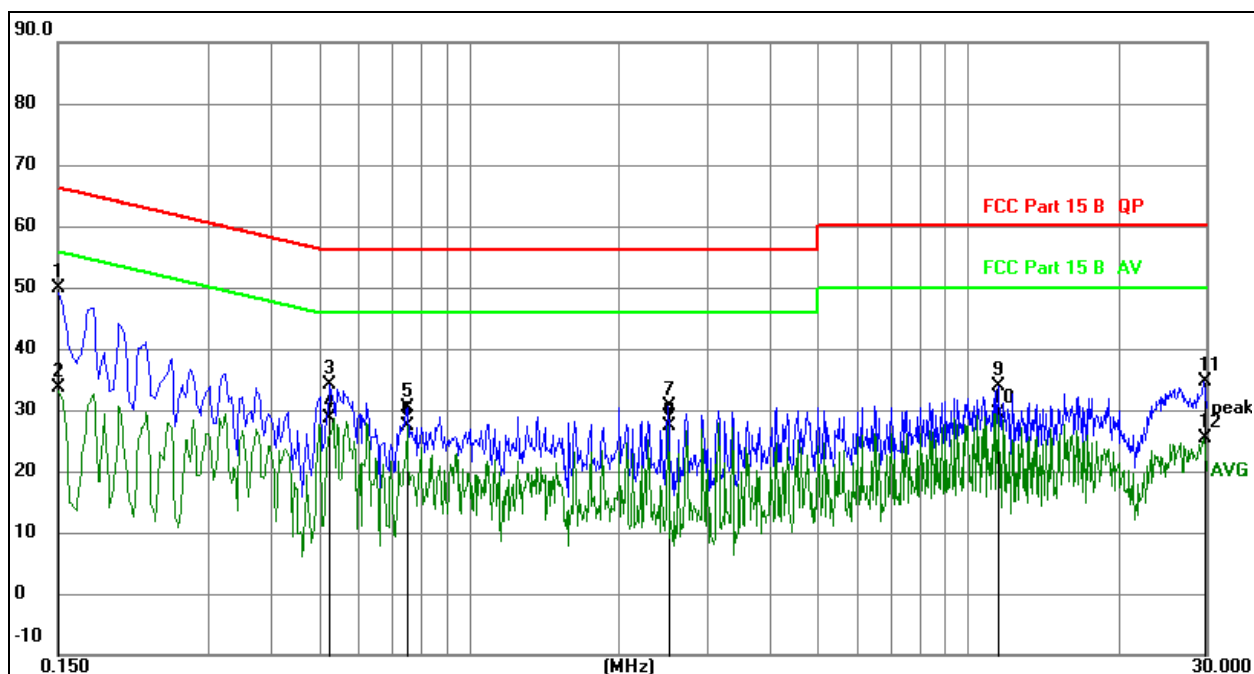


### Remark:

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 Level | Correct Factor | Measurement | Limit | Over   | Detector |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|
|     |     | MHz     |               | dB             | dBuV        | dBuV  | dB     |          |
| 1   |     | 0.1500  | 30.61         | 19.73          | 50.34       | 66.00 | -15.66 | QP       |
| 2   |     | 0.1500  | 15.49         | 19.73          | 35.22       | 56.00 | -20.78 | AVG      |
| 3   |     | 0.5910  | 16.91         | 19.84          | 36.75       | 56.00 | -19.25 | QP       |
| 4   | *   | 0.5910  | 15.03         | 19.84          | 34.87       | 46.00 | -11.13 | AVG      |
| 5   |     | 1.3785  | 12.82         | 19.95          | 32.77       | 56.00 | -23.23 | QP       |
| 6   |     | 1.3785  | 6.12          | 19.95          | 26.07       | 46.00 | -19.93 | AVG      |
| 7   |     | 3.3855  | 12.26         | 20.44          | 32.70       | 56.00 | -23.30 | QP       |
| 8   |     | 3.3855  | 6.23          | 20.44          | 26.67       | 46.00 | -19.33 | AVG      |
| 9   |     | 8.4075  | 13.83         | 19.92          | 33.75       | 60.00 | -26.25 | QP       |
| 10  |     | 8.4075  | 7.36          | 19.92          | 27.28       | 50.00 | -22.72 | AVG      |
| 11  |     | 29.7960 | 13.79         | 19.99          | 33.78       | 60.00 | -26.22 | QP       |
| 12  |     | 29.7960 | 6.74          | 19.99          | 26.73       | 50.00 | -23.27 | AVG      |

|              |        |                    |              |
|--------------|--------|--------------------|--------------|
| Temperature: | 26 °C  | Relative Humidity: | 54%          |
| Pressure:    | 101KPa | Phase :            | N            |
| Test Mode:   | Mode 1 | Test Voltage:      | AC 120V/60Hz |



Remark:

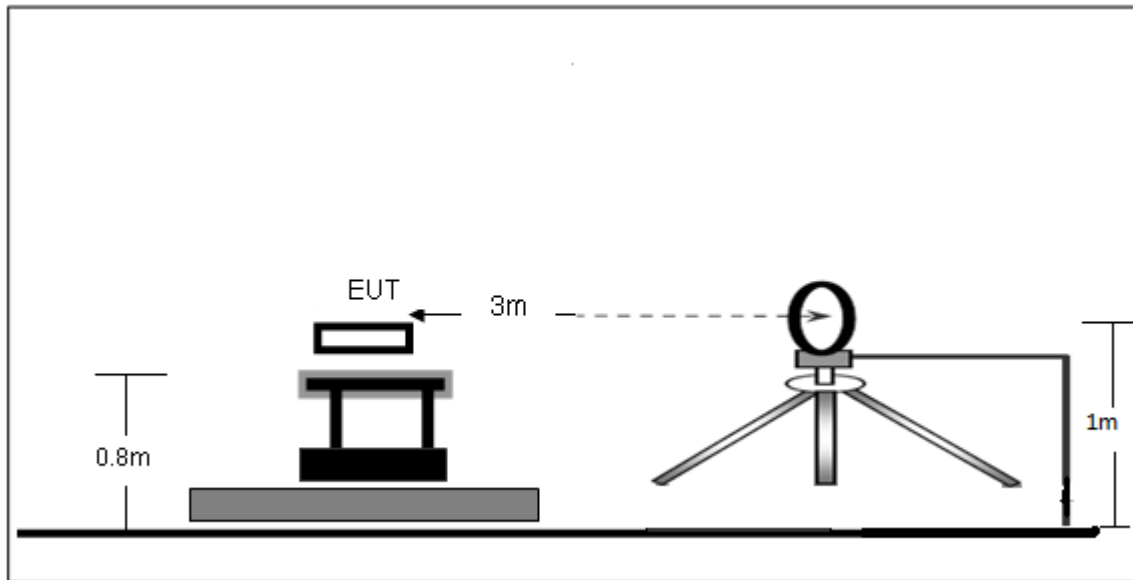
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.
3. Measurement = Reading Level + Correct Factor
4. Over = Measurement - Limit

| No. | Mk. | Freq.<br>MHz | Reading<br>Level | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector |
|-----|-----|--------------|------------------|-------------------------|--------------------------|---------------|------------|----------|
| 1   | *   | 0.1500       | 30.12            | 19.73                   | 49.85                    | 66.00         | -16.15     | QP       |
| 2   |     | 0.1500       | 14.02            | 19.73                   | 33.75                    | 56.00         | -22.25     | AVG      |
| 3   |     | 0.5265       | 14.17            | 19.84                   | 34.01                    | 56.00         | -21.99     | QP       |
| 4   |     | 0.5265       | 8.77             | 19.84                   | 28.61                    | 46.00         | -17.39     | AVG      |
| 5   |     | 0.7508       | 10.60            | 19.86                   | 30.46                    | 56.00         | -25.54     | QP       |
| 6   |     | 0.7508       | 7.44             | 19.86                   | 27.30                    | 46.00         | -18.70     | AVG      |
| 7   |     | 2.5000       | 10.54            | 20.13                   | 30.67                    | 56.00         | -25.33     | QP       |
| 8   |     | 2.5000       | 7.24             | 20.13                   | 27.37                    | 46.00         | -18.63     | AVG      |
| 9   |     | 11.4983      | 13.93            | 19.88                   | 33.81                    | 60.00         | -26.19     | QP       |
| 10  |     | 11.4983      | 9.60             | 19.88                   | 29.48                    | 50.00         | -20.52     | AVG      |
| 11  |     | 29.6838      | 14.75            | 19.99                   | 34.74                    | 60.00         | -25.26     | QP       |
| 12  |     | 29.6838      | 5.46             | 19.99                   | 25.45                    | 50.00         | -24.55     | AVG      |

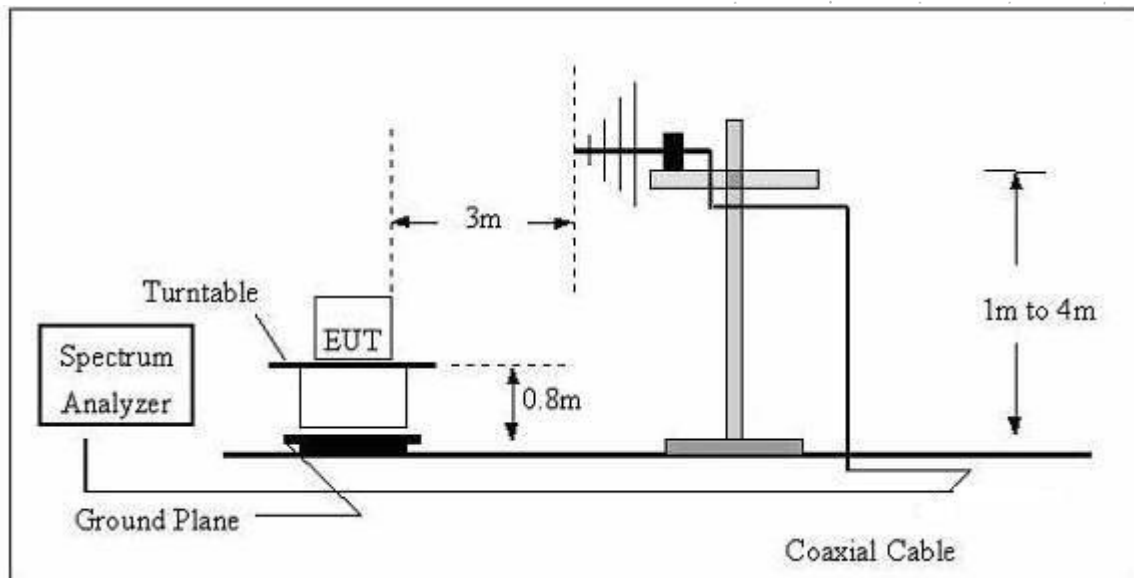
## 7. Radiated Emissions

### 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

FCC §15.209; §15.205.

| Test Standard | FCC Part15 C Section 15.209 and 15.205 |                                  |                |            |                          |
|---------------|----------------------------------------|----------------------------------|----------------|------------|--------------------------|
| Test Limit    | Frequency (MHz)                        | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark     | Measurement distance (m) |
|               | 0.009MHz~0.490MHz                      | 2400/F(kHz)                      | -              | -          | 300                      |
|               | 0.490MHz~1.705MHz                      | 24000/F(kHz)                     | -              | -          | 30                       |
|               | 1.705MHz~30MHz                         | 30                               | -              | -          | 30                       |
|               | 30MHz~88MHz                            | 100                              | 40.0           | Quasi-peak | 3                        |
|               | 88MHz~216MHz                           | 150                              | 43.5           | Quasi-peak | 3                        |
|               | 216MHz~960MHz                          | 200                              | 46.0           | Quasi-peak | 3                        |
|               | 960MHz~1000MHz                         | 500                              | 54.0           | Quasi-peak | 3                        |
|               | Above 1000MHz                          | 500                              | 54.0           | Average    | 3                        |
|               |                                        | -                                | 74.0           | Peak       | 3                        |

## 7.3 Test procedure

| Receiver Parameter | Setting           |
|--------------------|-------------------|
| Attenuation        | Auto              |
| 9kHz~150kHz        | RBW 200Hz for QP  |
| 150kHz~30MHz       | RBW 9kHz for QP   |
| 30MHz~1000MHz      | RBW 120kHz for QP |

Below 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter 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 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Above 1GHz test procedure as below:

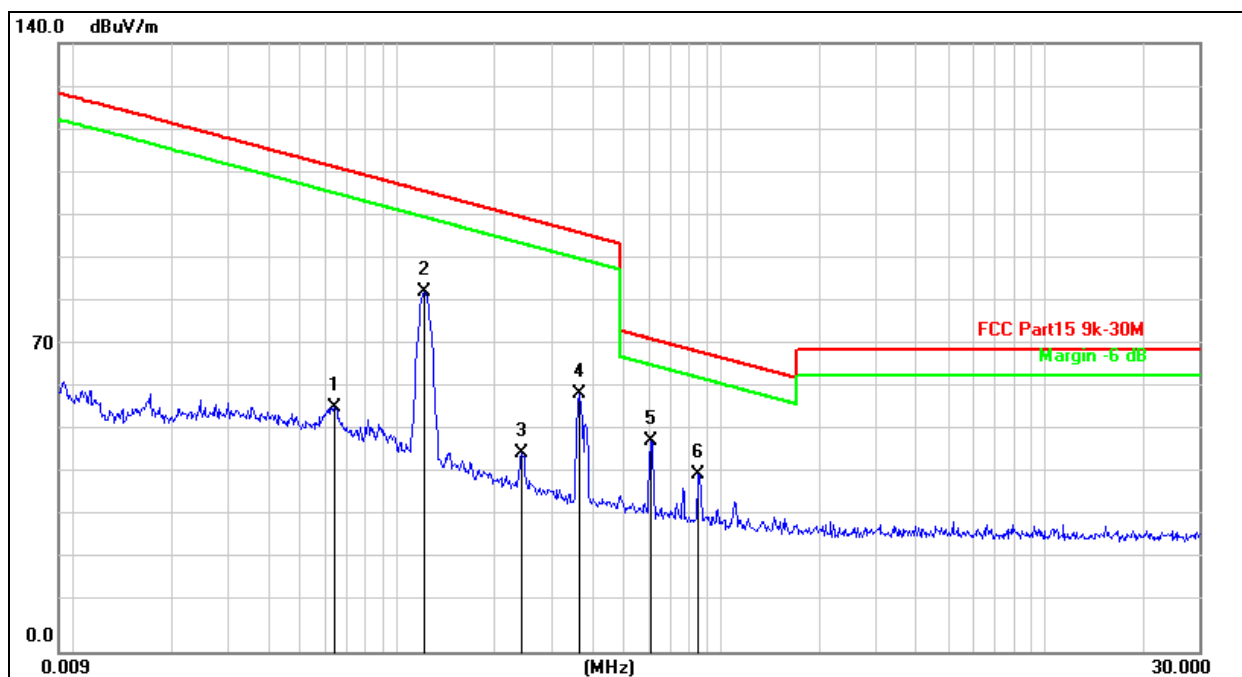
- Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre( Above 18GHz the distance is 1 meter and table is 1.5 metre).
- Test the EUT in the lowest channel ,the middle channel ,the Highest channel.

Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

## 7.4 Test Result

9kHz-30MHz

|              |         |                    |                |
|--------------|---------|--------------------|----------------|
| Temperature: | 26°C    | Relative Humidity: | 54%            |
| Pressure:    | 101 kPa | Test Voltage:      | AC 120V/60Hz   |
| Test Mode:   | Mode 1  | Polarization:      | Coaxial(Worst) |



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dB/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|---------------|------------|----------|
| 1   |     | 0.0641       | 63.90                    | -7.57                   | 56.33                      | 111.4         | -55.14     | QP       |
| 2   | *   | 0.1216       | 90.17                    | -7.53                   | 82.64                      | 105.9         | -23.27     | QP       |
| 3   |     | 0.2424       | 53.57                    | -7.75                   | 45.82                      | 99.91         | -54.09     | QP       |
| 4   |     | 0.3636       | 66.92                    | -7.67                   | 59.25                      | 96.39         | -37.14     | QP       |
| 5   |     | 0.6062       | 55.90                    | -7.46                   | 48.44                      | 71.96         | -23.52     | QP       |
| 6   |     | 0.8523       | 48.12                    | -7.36                   | 40.76                      | 69.01         | -28.25     | QP       |

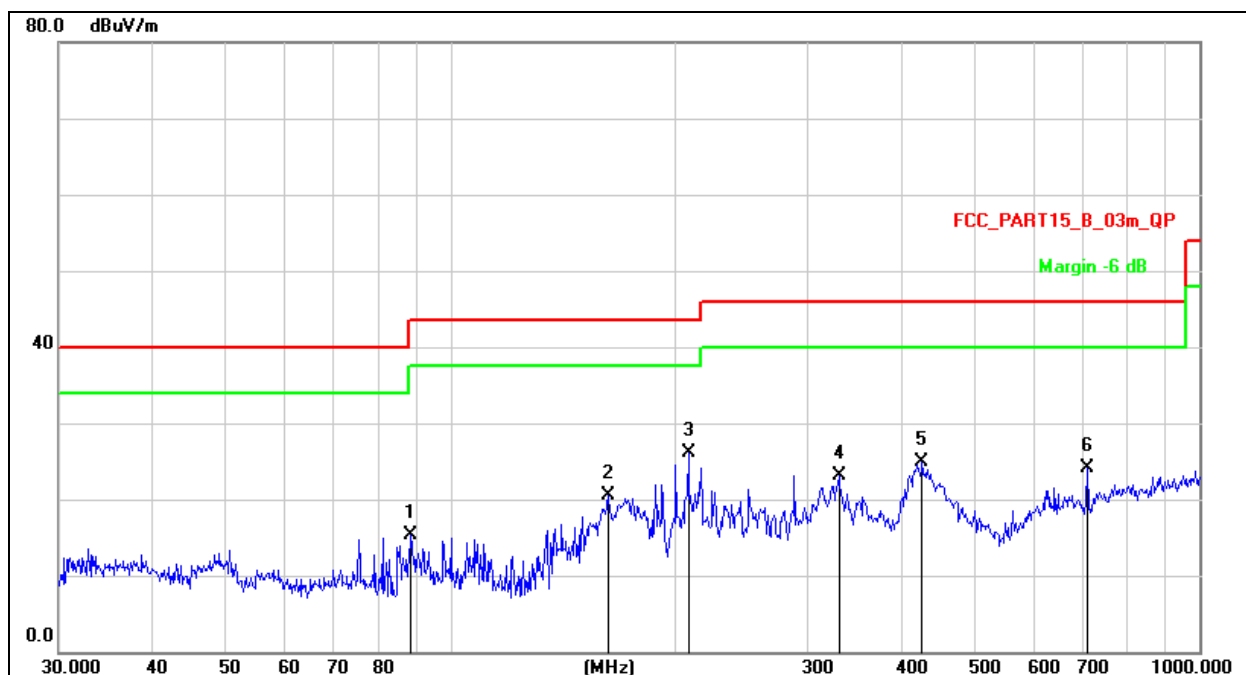
|              |         |                    |                |
|--------------|---------|--------------------|----------------|
| Temperature: | 26°C    | Relative Humidity: | 54%            |
| Pressure:    | 101 kPa | Test Voltage:      | DC 3.7V        |
| Test Mode:   | Mode 4  | Polarization:      | Coaxial(Worst) |



| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measurement | Limit | Over   |          |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|
|     |     | MHz    | dBuV          | dB             | dBuV/m      | dB/m  | dB     | Detector |
| 1   |     | 0.0625 | 63.14         | -7.54          | 55.60       | 111.6 | -56.09 | QP       |
| 2   |     | 0.1267 | 82.06         | -7.54          | 74.52       | 105.5 | -31.03 | QP       |
| 3   |     | 0.2545 | 58.22         | -7.74          | 50.48       | 99.49 | -49.01 | QP       |
| 4   |     | 0.3787 | 62.46         | -7.65          | 54.81       | 96.04 | -41.23 | QP       |
| 5   | *   | 0.6262 | 51.49         | -7.44          | 44.05       | 71.68 | -27.63 | QP       |
| 6   |     | 0.7669 | 47.80         | -7.36          | 40.44       | 69.92 | -29.48 | QP       |

Between 30MHz – 1GHz

|              |        |                    |              |
|--------------|--------|--------------------|--------------|
| Temperature: | 26 °C  | Relative Humidity: | 54%          |
| Pressure:    | 101KPa | Phase:             | Horizontal   |
| Test Mode:   | Mode 1 | Test Voltage:      | AC 120V/60Hz |

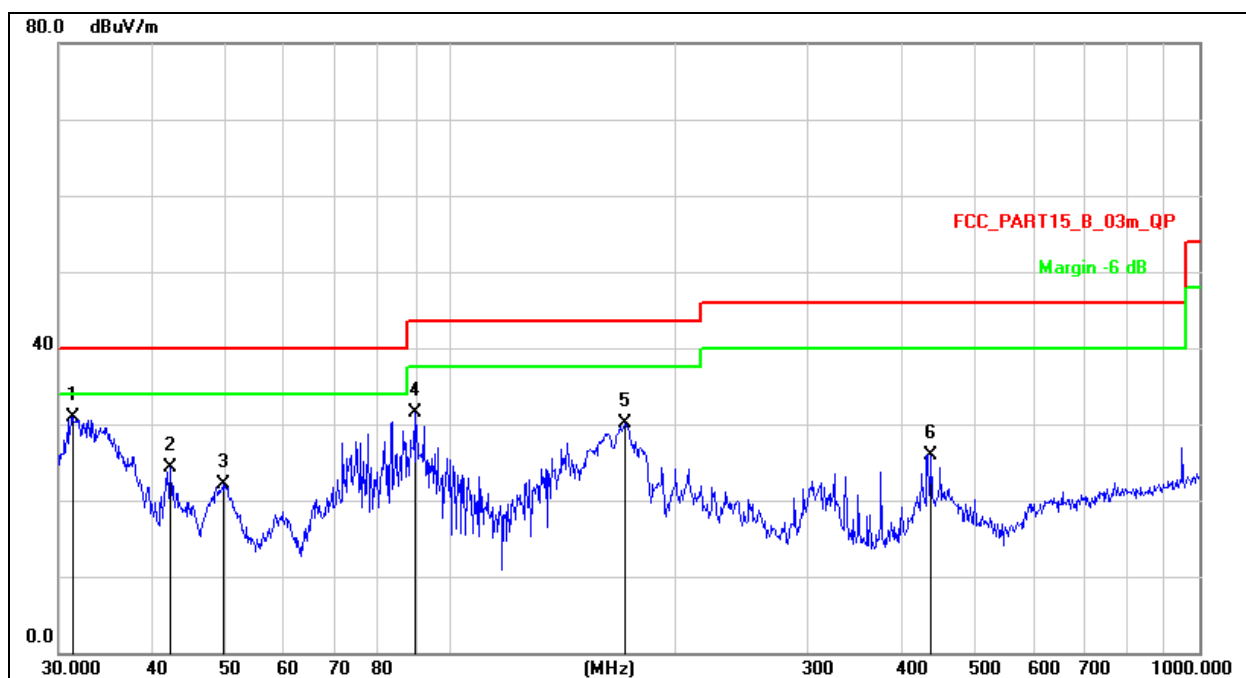


Remark:

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

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dB/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|---------------|------------|----------|
| 1   |     | 88.6524      | 33.05                    | -17.72                  | 15.33                      | 43.50         | -28.17     | QP       |
| 2   |     | 162.6106     | 38.90                    | -18.49                  | 20.41                      | 43.50         | -23.09     | QP       |
| 3   | *   | 207.8501     | 41.62                    | -15.50                  | 26.12                      | 43.50         | -17.38     | QP       |
| 4   |     | 330.1949     | 35.28                    | -12.18                  | 23.10                      | 46.00         | -22.90     | QP       |
| 5   |     | 426.5210     | 35.16                    | -10.32                  | 24.84                      | 46.00         | -21.16     | QP       |
| 6   |     | 709.1823     | 29.63                    | -5.58                   | 24.05                      | 46.00         | -21.95     | QP       |

|              |        |                    |              |
|--------------|--------|--------------------|--------------|
| Temperature: | 26 °C  | Relative Humidity: | 54%          |
| Pressure:    | 101KPa | Phase :            | Vertical     |
| Test Mode:   | Mode 1 | Test Voltage:      | AC 120V/60Hz |

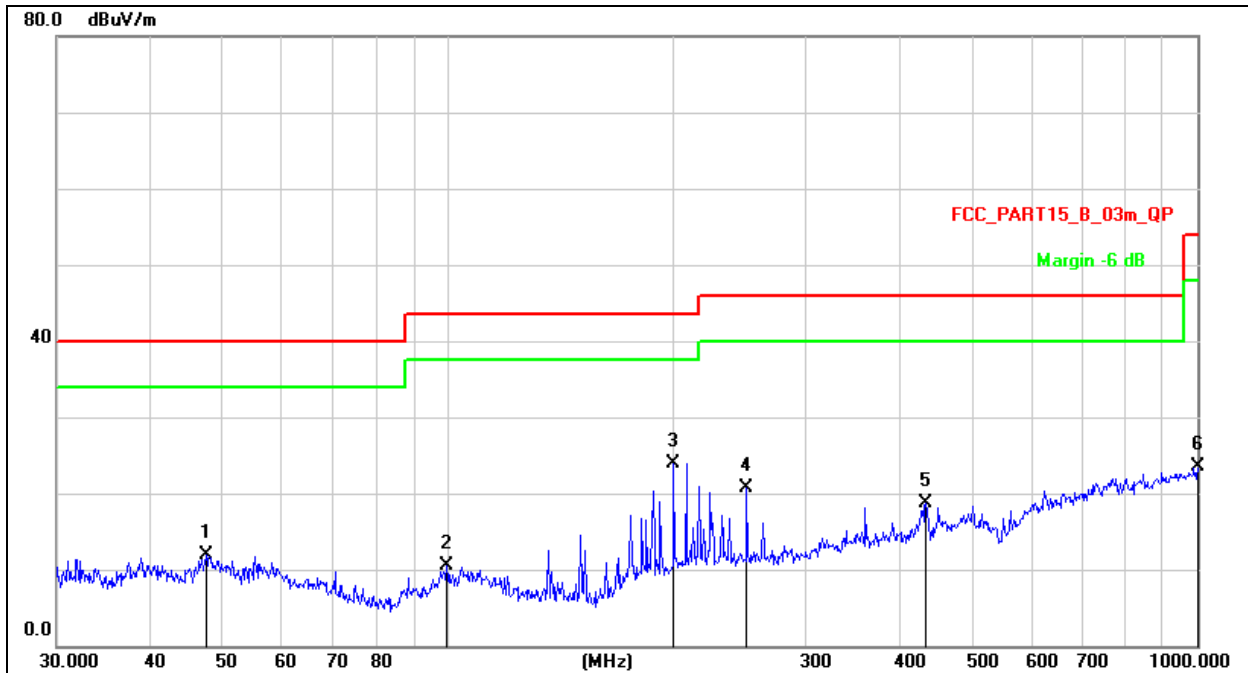


Remark:

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

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dB/m  | dB     | Detector |
| 1   | *   | 31.2893  | 47.34         | -16.40         | 30.94       | 40.00 | -9.06  | QP       |
| 2   |     | 42.3022  | 38.83         | -14.53         | 24.30       | 40.00 | -15.70 | QP       |
| 3   |     | 49.7068  | 36.04         | -13.92         | 22.12       | 40.00 | -17.88 | QP       |
| 4   |     | 89.5899  | 49.02         | -17.50         | 31.52       | 43.50 | -11.98 | QP       |
| 5   |     | 170.7926 | 48.03         | -17.89         | 30.14       | 43.50 | -13.36 | QP       |
| 6   |     | 438.6554 | 35.99         | -10.08         | 25.91       | 46.00 | -20.09 | QP       |

|              |        |                    |            |
|--------------|--------|--------------------|------------|
| Temperature: | 26 °C  | Relative Humidity: | 54%        |
| Pressure:    | 101KPa | Phase :            | Horizontal |
| Test Mode:   | Mode 4 | Test Voltage:      | DC 3.7V    |

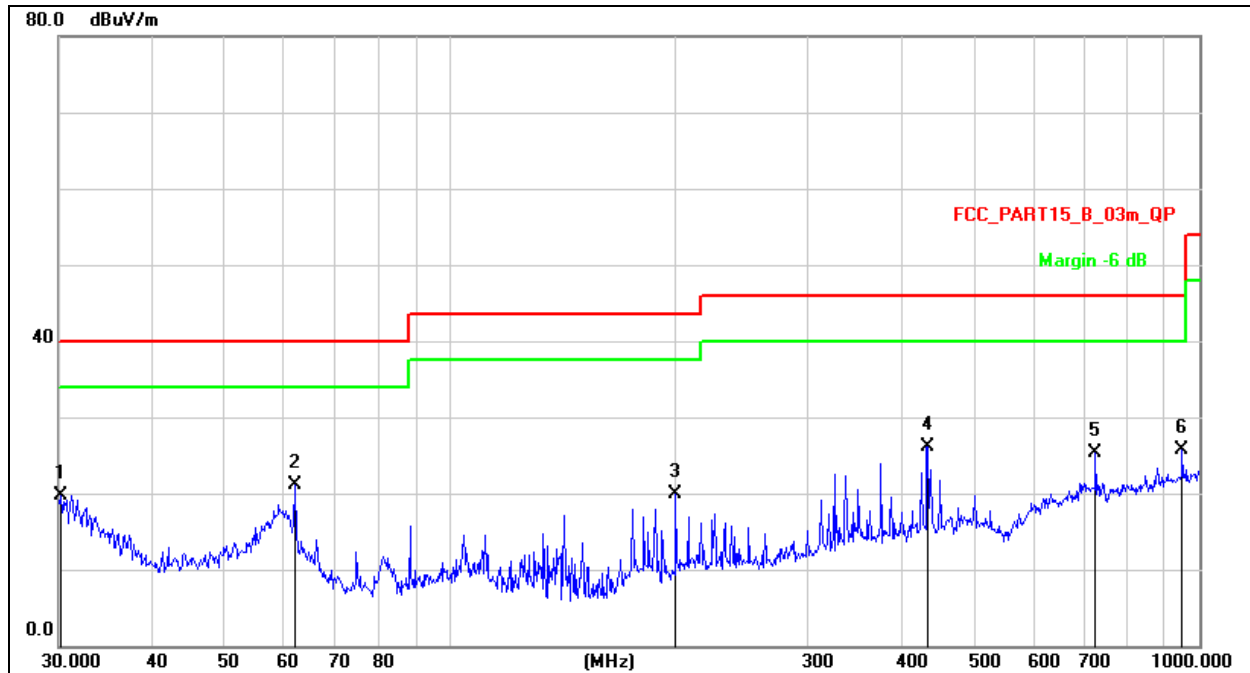


Remark:

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

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dB/m  | dB     | Detector |
| 1   |     | 47.4918  | 25.96         | -14.11         | 11.85       | 40.00 | -28.15 | QP       |
| 2   |     | 99.5281  | 26.59         | -16.00         | 10.59       | 43.50 | -32.91 | QP       |
| 3   | *   | 199.9856 | 39.54         | -15.72         | 23.82       | 43.50 | -19.68 | QP       |
| 4   |     | 250.3012 | 34.96         | -14.28         | 20.68       | 46.00 | -25.32 | QP       |
| 5   |     | 434.0651 | 28.94         | -10.17         | 18.77       | 46.00 | -27.23 | QP       |
| 6   |     | 1000.000 | 25.88         | -2.36          | 23.52       | 54.00 | -30.48 | QP       |

|              |        |                    |          |
|--------------|--------|--------------------|----------|
| Temperature: | 26 °C  | Relative Humidity: | 54%      |
| Pressure:    | 101KPa | Phase :            | Vertical |
| Test Mode:   | Mode 4 | Test Voltage:      | DC 3.7V  |



Remark:

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

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dB/m  | dB     | Detector |
| 1   |     | 30.2111  | 36.30         | -16.61         | 19.69       | 40.00 | -20.31 | QP       |
| 2   | *   | 61.9951  | 36.95         | -15.80         | 21.15       | 40.00 | -18.85 | QP       |
| 3   |     | 199.9856 | 35.72         | -15.72         | 20.00       | 43.50 | -23.50 | QP       |
| 4   |     | 434.0651 | 36.36         | -10.17         | 26.19       | 46.00 | -19.81 | QP       |
| 5   |     | 726.8052 | 30.63         | -5.32          | 25.31       | 46.00 | -20.69 | QP       |
| 6   |     | 948.7610 | 28.60         | -2.94          | 25.66       | 46.00 | -20.34 | QP       |

## 8. Bandwidth Test

### 8.1 Test Procedure

1. Set RBW = 1%~5% OBW.
2. Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

### 8.2 Test Setup



### 8.3 Test Result

| Frequency (kHz) | 20dB bandwidth (kHz) | Result |
|-----------------|----------------------|--------|
| 126.1           | 0.076                | Pass   |



## 9. Antenna Requirements

### 9.1 Limit

For intentional device, according to FCC 47 CFR Section 15.203, 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 shall be considered sufficient to comply with the provisions of this section. 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.

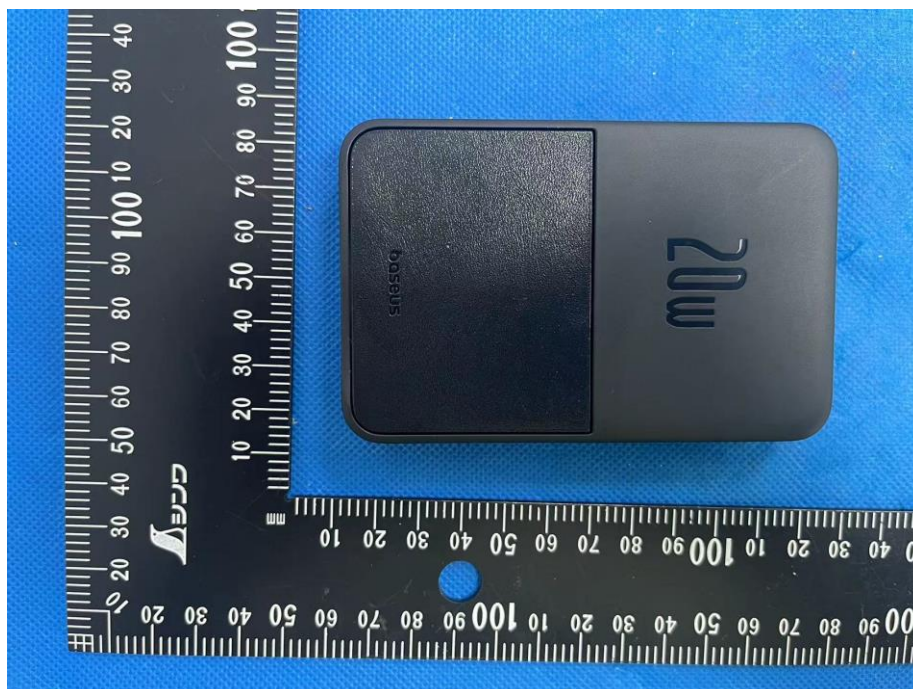
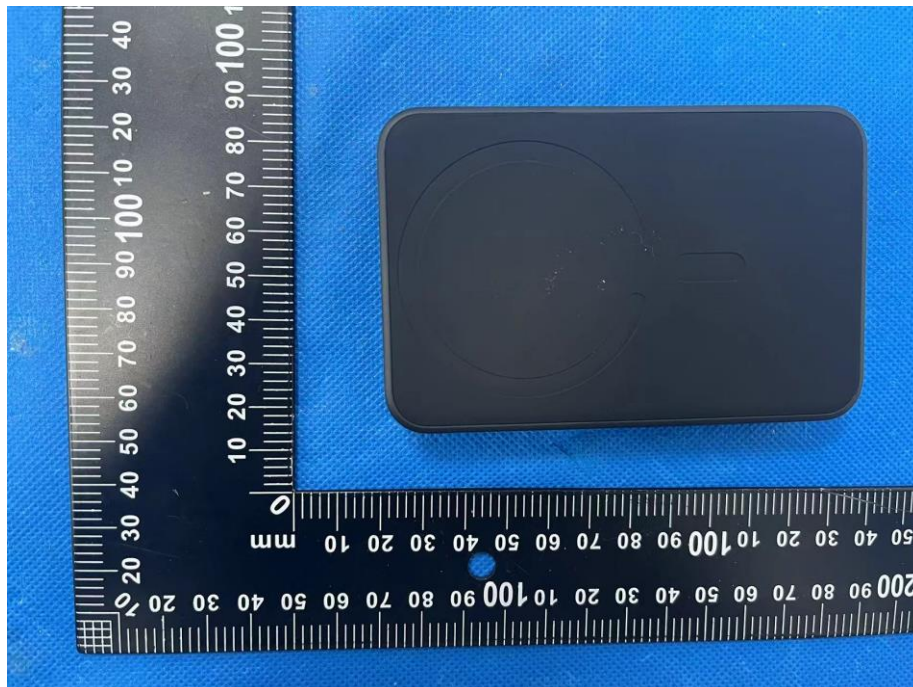
### 9.2 Test Result

The antenna used for this product is Inductive coil antenna.

CO., LTD.

## 10. EUT Photographs

EUT Photo 1



NOTE: Appendix-Photographs Of EUT Constructional Details

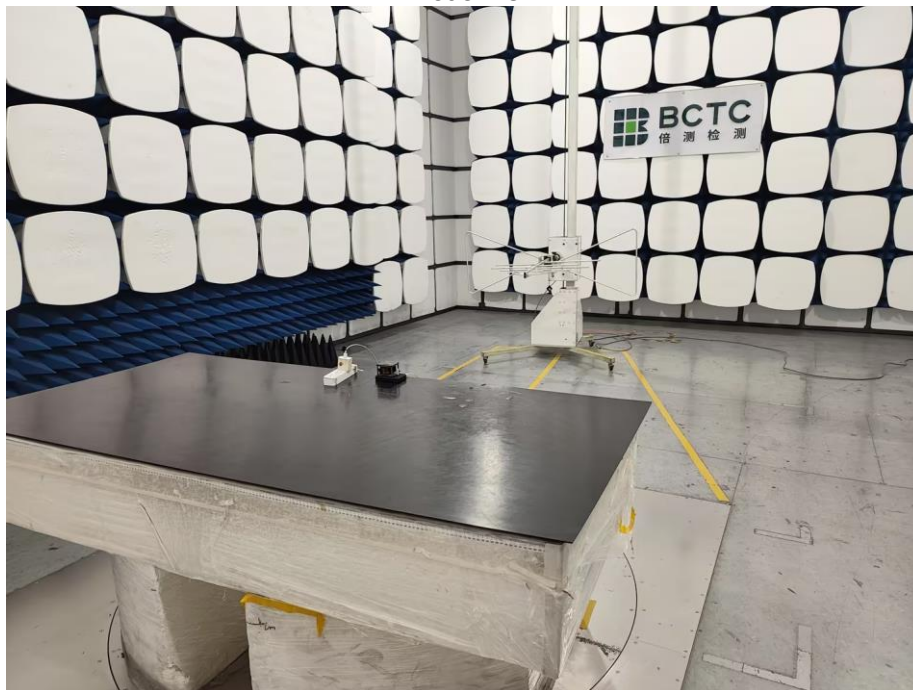
## 11. EUT Test Setup Photographs

Conducted emissions



Radiated Measurement Photos  
30MHz-1GHz

Mode 1-3



Mode 4-6

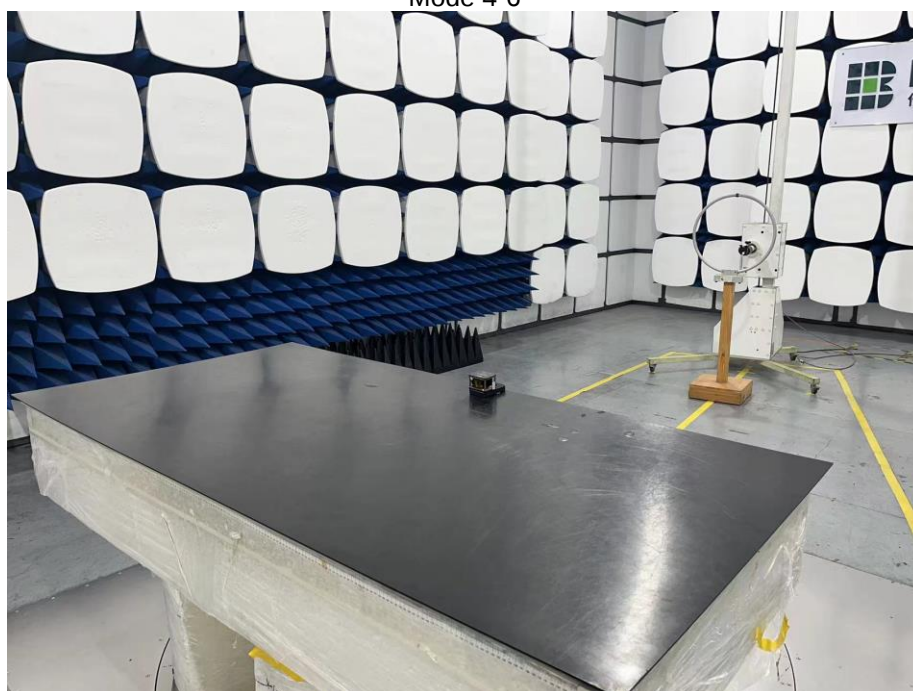


9kHz-30MHz

Mode 1-3



Mode 4-6



**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.

**Address:**

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P.C.: 518103

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Website: <http://www.chnbctc.com>

E-Mail: [bctc@bctc-lab.com.cn](mailto:bctc@bctc-lab.com.cn)

\*\*\*\*\* END \*\*\*\*\*

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CO., LTD