



# FCC TEST REPORT

## FCC ID: 2AN8F-XJ0825

|                  |                                                                                                                                                    |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:    | Bluetooth Speaker Wireless Powerbank                                                                                                               |
| Trademark:       | N/A                                                                                                                                                |
| Model Number:    | XJ0825                                                                                                                                             |
| Prepared For :   | Shenzhen Mossloo Industrial Co.,Ltd                                                                                                                |
| Address :        | Road One No.4, Science Industrial Park, Shangxue Village, Bantian Street, Longgang District, Shenzhen, China                                       |
| Prepared By :    | Shenzhen BCTC Testing Co., Ltd.                                                                                                                    |
| Address :        | BCTC Building & 1-2F, East of B Building, Pengzhou Industrial, Fuyuan 1st Road, Qiaotou Community, Fuyong Street, Bao'an District, Shenzhen, China |
| Test Date:       | Dec. 24, 2018 – Jan. 07, 2019                                                                                                                      |
| Date of Report : | Jan. 07, 2019                                                                                                                                      |
| Report No.:      | BCTC-FY181206984-2E                                                                                                                                |



## TABLE OF CONTENTS

|                                                          |           |
|----------------------------------------------------------|-----------|
| <b>TEST REPORT DECLARATION .....</b>                     | <b>3</b>  |
| <b>1.GENERAL INFORMATION .....</b>                       | <b>4</b>  |
| 1.1. Report information .....                            | 4         |
| 1.2. Measurement Uncertainty .....                       | 4         |
| 1.3. Test Facility .....                                 | 4         |
| 1.4. Test Uncertainty .....                              | 4         |
| <b>2.PRODUCT DESCRIPTION .....</b>                       | <b>5</b>  |
| 2.1. EUT Description .....                               | 5         |
| 2.2. Test mode .....                                     | 5         |
| 2.3. Block Diagram of EUT Configuration .....            | 5         |
| 2.4. Test Conditions .....                               | 5         |
| 2.5. Description Of Support Units (Conducted Mode) ..... | 6         |
| <b>3.TEST RESULTS SUMMARY .....</b>                      | <b>6</b>  |
| <b>4.TEST EQUIPMENT USED.....</b>                        | <b>7</b>  |
| 4.1. For Conducted Emission Test .....                   | 7         |
| 4.2. For Radiated Emission Measurement .....             | 7         |
| <b>5.CONDUCTED EMISSION TEST.....</b>                    | <b>8</b>  |
| 5.1. Block Diagram of Test Setup .....                   | 8         |
| 5.2. Test Standard .....                                 | 8         |
| 5.3. Conducted Emission Limit .....                      | 8         |
| 5.4. EUT Configuration on Test .....                     | 8         |
| 5.5. Operating Condition of EUT .....                    | 9         |
| 5.6. Test Procedure .....                                | 9         |
| 5.7. Test Result .....                                   | 9         |
| <b>6.RADIATED EMISSION MEASUREMENT .....</b>             | <b>12</b> |
| 6.1. Block Diagram of Test Setup .....                   | 12        |
| 6.2. Test Standard and Limit .....                       | 13        |
| 6.3. EMI Test Receiver Setup .....                       | 14        |
| 6.4. Test Procedure .....                                | 14        |
| 6.5. Test Result .....                                   | 14        |
| <b>7.BANDWIDTH TEST .....</b>                            | <b>20</b> |
| <b>8.EUT TEST PHOTOS.....</b>                            | <b>22</b> |
| <b>9.EUT PHOTOS .....</b>                                | <b>24</b> |



## TEST REPORT DECLARATION

Applicant : Shenzhen Mossloo Industrial Co.,Ltd  
Address : Road One No.4, Science Industrial Park, Shangxue Village,  
Bantian Street, Longgang District, Shenzhen, China  
EUT Description : Bluetooth Speaker Wireless Powerbank  
Model Number : XJ0825  
Serial Model : N/A

Test Standards:

### FCC Part 15 C

This device described above has been tested by BCTC, and the test results show that the equipment under And it is applicable only to the tested sample identified in the report.

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Prepared by(Engineer): Leke Xie

*Leke Xie*

Reviewer(Supervisor): Eric Yang

*Eric Yang*

Approved(Manager): Carson Zhang

*Carson Zhang*





## 1. GENERAL INFORMATION

### 1.1. Report information

- 1.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that BCTC approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that BCTC in any way guarantees the later performance of the product/equipment.
- 1.1.2. The sample/s mentioned in this report is/are supplied by Applicant, BCTC therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 1.1.3. Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through BCTC, unless the applicant has authorized BCTC in writing to do so.

### 1.2. Measurement Uncertainty

Available upon request.

### 1.3. Test Facility

Site Description  
Name of Firm : Shenzhen BCTC Testing Co., Ltd.

Site Location : BCTC Building & 1-2F, East of B Building,  
Pengzhou Industrial, Fuyuan 1st Road, Qiaotou  
Community, Fuyong Street, Bao'an District,  
Shenzhen, China

### 1.4. Test Uncertainty

Conducted Emission =  $\pm 2.66\text{dB}$   
Uncertainty  
Radiated Emission Uncertainty =  $\pm 4.15\text{dB}$



## 2. PRODUCT DESCRIPTION

### 2.1.EUT Description

Description : Bluetooth Speaker Wireless Powerbank

Applicant : **Shenzhen Mossloo Industrial Co.,Ltd**  
Road One No.4, Science Industrial Park, Shangxue Village, Bantian Street, Longgang District, Shenzhen, China

Manufacturer : **Shenzhen Mossloo Industrial Co.,Ltd**  
Road One No.4, Science Industrial Park, Shangxue Village, Bantian Street, Longgang District, Shenzhen, China

Model Number : XJ0825

Serial Model : N/A

Model Difference : N/A

Ratings : Battery DC 3.6V 9.0Wh  
DC 5V from adapter

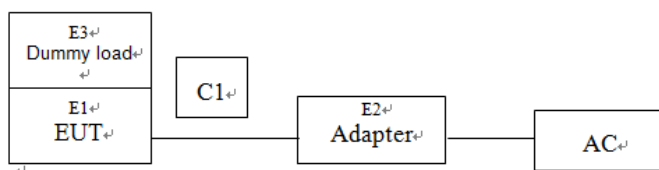
Power Supply : Micro Input: DC 5V 2A, USB Output: DC 5V 2A,  
Wireless Input: 5V 0.8A, Wireless output: 5V 1A

Work Frequency : 120-220KHz

### 2.2.Test mode

|            |                          |
|------------|--------------------------|
| Test Modes | keeping TX+Charging mode |
|------------|--------------------------|

### 2.3.Block Diagram of EUT Configuration



### 2.4.Test Conditions

Temperature: 23~26℃

Relative Humidity: 54~63 %



## 2.5. Description Of Support Units (Conducted Mode)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment                               | Mfr/Brand | Model/Type No. | Series No. | Note      |
|------|-----------------------------------------|-----------|----------------|------------|-----------|
| E1   | Bluetooth Speaker<br>Wireless Powerbank | N/A       | XJ0825         | N/A        | EUT       |
| E2   | Adapter                                 | N/A       | BCTC-002       | N/A        | Auxiliary |
| E3   | Dummy load                              | N/A       | DL01           | N/A        | Auxiliary |

| Item | Shielded Type | Ferrite Core | Length | Note                |
|------|---------------|--------------|--------|---------------------|
| C1   | NO            | NO           | 1.0M   | DC cable unshielded |
|      |               |              |        |                     |
|      |               |              |        |                     |

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

## 3. TEST RESULTS SUMMARY

Table 1 Test Results Summary

| Test Items            | Test Results |
|-----------------------|--------------|
| Conducted disturbance | Pass         |
| Radiated disturbance  | Pass         |

Remark: “N/A” means “Not applicable.”



## 4. TEST EQUIPMENT USED

### 4.1. For Conducted Emission Test

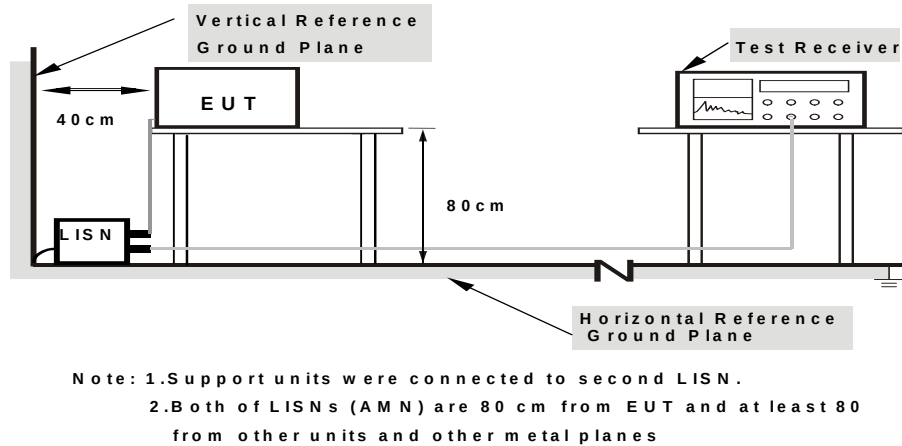
| Item | Equipment     | Manufacturer | Type No.   | Serial No.    | Last calibration | Calibrated until |
|------|---------------|--------------|------------|---------------|------------------|------------------|
| 1    | Test Receiver | R&S          | ESR3       | 102075        | 2018.06.20       | 2019.06.20       |
| 2    | LISN          | SCHWARZBECK  | NSLK8127   | 8127739       | 2018.06.19       | 2019.06.19       |
| 3    | LISN          | R&S          | ENV216     | 101375        | 2018.06.20       | 2019.06.20       |
| 4    | RF cables     | Huber+Suhnar | 9kHz-30MHz | B1702988-0008 | 2018.02.12       | 2019.02.12       |
| 5    | Software      | Frad         | EZ-EMC     | EMC-CON 3A1   | \                | \                |

### 4.2. For Radiated Emission Measurement

| Item | Equipment                        | Manufacturer | Type No.      | Serial No.    | Last calibration | Calibrated until |
|------|----------------------------------|--------------|---------------|---------------|------------------|------------------|
| 1    | Spectrum Analyzer (9kHz-26.5GHz) | Agilent      | E4407B        | MY45109572    | 2018.06.20       | 2019.06.20       |
| 2    | Test Receiver (9kHz-7GHz)        | R&S          | ESR7          | 101154        | 2018.06.20       | 2019.06.20       |
| 3    | Bilog Antenna (30MHz-3GHz)       | SCHWARZBECK  | VULB9163      | VULB9163-942  | 2018.06.23       | 2019.06.23       |
| 4    | Horn Antenna (1GHz-18GHz)        | SCHWARZBECK  | BBHA9120D     | 1541          | 2018.06.23       | 2019.06.22       |
| 5    | Horn Antenna (18GHz-40GHz)       | SCHWARZBECK  | BBHA9170      | 822           | 2018.08.06       | 2019.08.06       |
| 6    | Amplifier (9KHz-6GHz)            | SCHWARZBECK  | BBV9744       | 9744-0037     | 2018.06.20       | 2019.06.20       |
| 7    | Amplifier (0.5GHz-18GHz)         | SCHWARZBECK  | BBV9718       | 9718-309      | 2018.06.20       | 2019.06.20       |
| 8    | Amplifier (18GHz-40GHz)          | MITEQ        | TTA1840-35-HG | 2034381       | 2018.08.06       | 2019.08.06       |
| 9    | Loop Antenna (9KHz-30MHz)        | SCHWARZBECK  | FMZB1519B     | 014           | 2018.06.23       | 2019.06.23       |
| 10   | RF cables1 (9kHz-30MHz)          | Huber+Suhnar | 9kHz-30MHz    | B1702988-0008 | 2018.02.12       | 2019.02.12       |
| 11   | RF cables2 (30MHz-1GHz)          | Huber+Suhnar | 30MHz-1GHz    | 1486150       | 2018.03.27       | 2019.03.27       |
| 12   | RF cables3 (1GHz-40GHz)          | Huber+Suhnar | 1GHz-40GHz    | 1607106       | 2018.06.19       | 2019.06.19       |
| 13   | Power Metter                     | Keysight     | E4419         | \             | 2018.04.15       | 2019.04.15       |
| 14   | Power Sensor (AV)                | Keysight     | E9 300A       | \             | 2018.04.15       | 2019.04.15       |
| 15   | Signal Analyzer 20kHz-26.5GHz    | KEYSIGHT     | N9020A        | MY49100060    | 2018.08.14       | 2019.08.13       |
| 16   | Test Receiver 9kHz-40GHz         | R&S          | FSP40         | 100550        | 2018.06.13       | 2019.06.12       |
| 17   | D.C. Power Supply                | LongWei      | TPR-6405D     | \             | \                | \                |
| 18   | Software                         | Frad         | EZ-EMC        | FA-03A2 RE    | \                | \                |

## 5. CONDUCTED EMISSION TEST

### 5.1. Block Diagram of Test Setup



The setup of EUT is according with per ANSI C63.10-2013 measurement procedure.  
The specification used was with the FCC Part 15.207 limits.

### 5.2. Test Standard

FCC§15.207

### 5.3. Conducted Emission Limit

| Frequency<br>MHz | Limits dB(μV)    |               |
|------------------|------------------|---------------|
|                  | Quasi-peak Level | Average Level |
| 0.15 ~ 0.50      | 66 ~ 56*         | 56 ~ 46*      |
| 0.50 ~ 5.00      | 56               | 46            |
| 5.00 ~ 30.00     | 60               | 50            |

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

### 5.4. EUT Configuration on Test

The following equipments are installed on conducted emission test to meet FCC Part 15.207 requirement and operating in a manner, which tends to maximize its emission characteristics in a normal application.



## 5.5. Operating Condition of EUT

5.5.1. Setup the EUT and simulators as shown in Section 5.1.

5.5.2. Turn on the power of all equipments.

5.5.3. Let the EUT work in test modes (EUT Working) and test it.

## 5.6. Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver (R&S Test Receiver ESHS30) is used to test the emissions form both sides of AC line. The bandwidth of EMI test receiver is set at 9kHz.

The bandwidth of the test receiver (R&S Test Receiver ESHS30) is set at 10KHz.

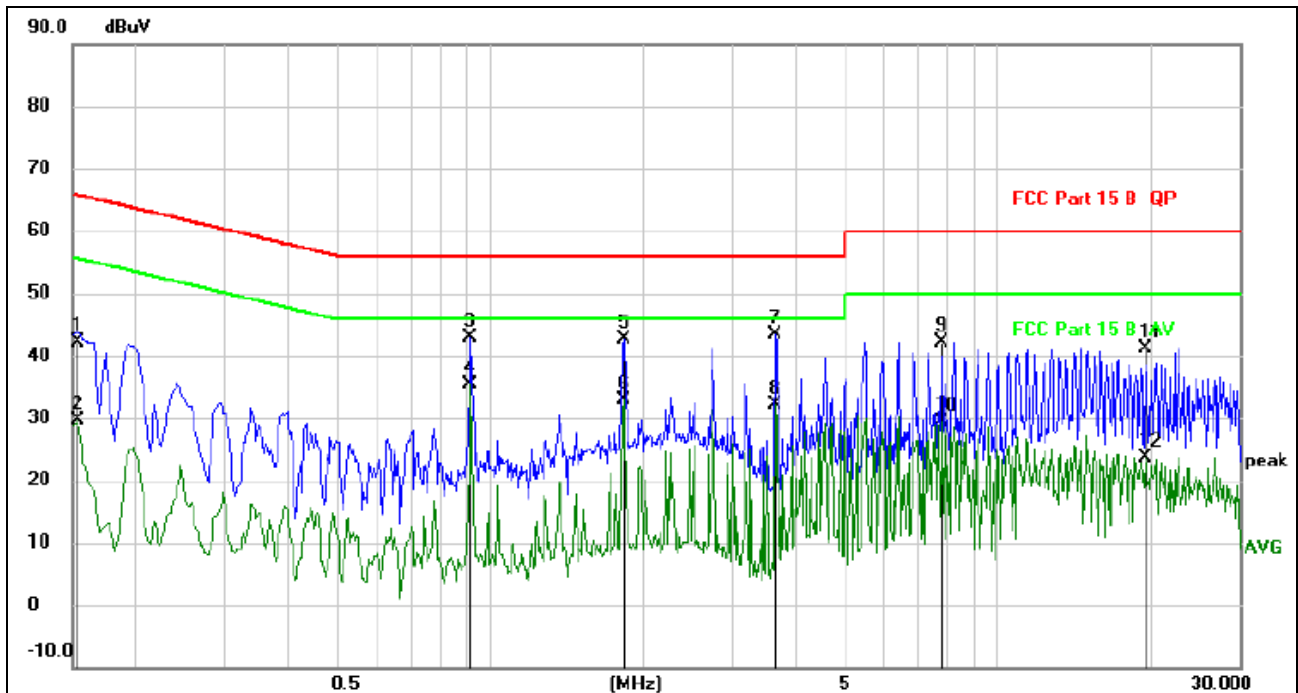
We pretest AC 120V and AC 240V, the worst voltage was AC 120V and the data recording in the report.

## 5.7. Test Result

PASS



|                |                                      |                    |        |
|----------------|--------------------------------------|--------------------|--------|
| EUT:           | Bluetooth Speaker Wireless Powerbank | Model Name :       | XJ0825 |
| Temperature:   | 26 °C                                | Relative Humidity: | 55%    |
| Pressure:      | 101kPa                               | Phase :            | L      |
| Test Voltage : | DC 5V form Adapter AC 120V/60Hz      | Test Mode:         | Normal |



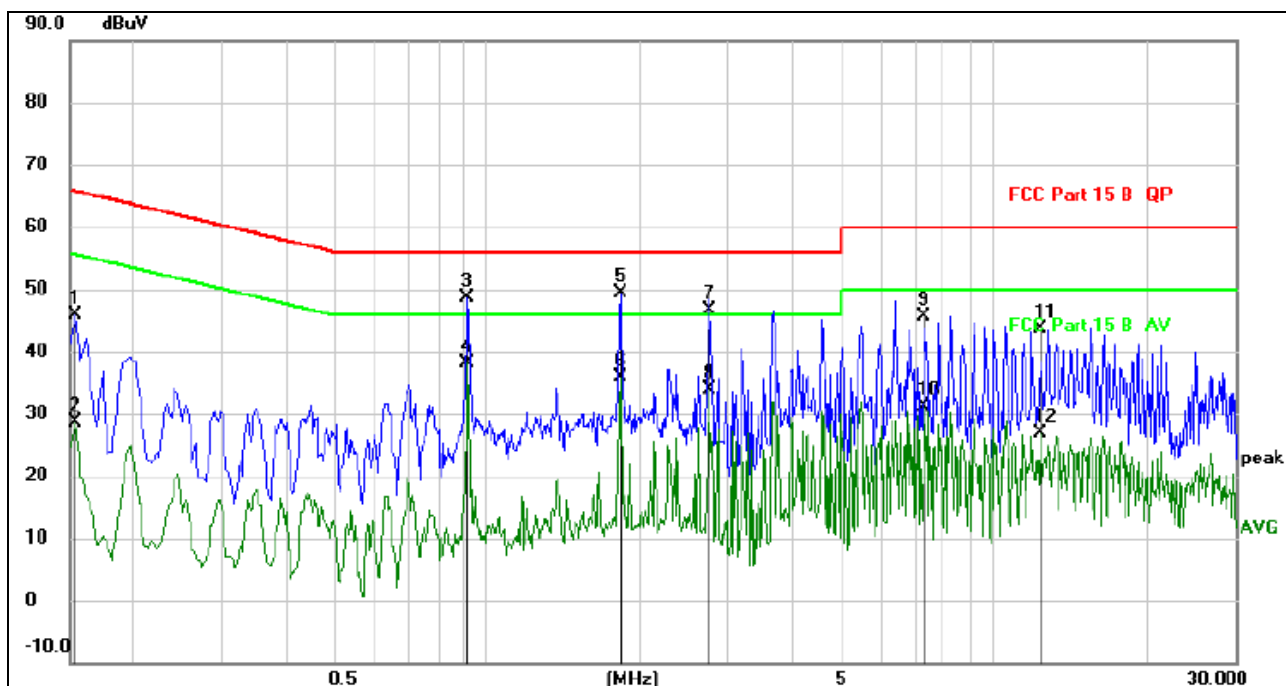
Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1539       | 32.70                    | 9.52              | 42.22                    | 65.79         | -23.57     | QP       |         |
| 2   |     | 0.1539       | 20.03                    | 9.52              | 29.55                    | 55.79         | -26.24     | AVG      |         |
| 3   |     | 0.9140       | 33.33                    | 9.60              | 42.93                    | 56.00         | -13.07     | QP       |         |
| 4   | *   | 0.9140       | 25.69                    | 9.60              | 35.29                    | 46.00         | -10.71     | AVG      |         |
| 5   |     | 1.8340       | 33.11                    | 9.59              | 42.70                    | 56.00         | -13.30     | QP       |         |
| 6   |     | 1.8340       | 23.17                    | 9.59              | 32.76                    | 46.00         | -13.24     | AVG      |         |
| 7   |     | 3.6540       | 33.62                    | 9.71              | 43.33                    | 56.00         | -12.67     | QP       |         |
| 8   |     | 3.6540       | 22.52                    | 9.71              | 32.23                    | 46.00         | -13.77     | AVG      |         |
| 9   |     | 7.7940       | 32.51                    | 9.71              | 42.22                    | 60.00         | -17.78     | QP       |         |
| 10  |     | 7.7940       | 19.55                    | 9.71              | 29.26                    | 50.00         | -20.74     | AVG      |         |
| 11  |     | 19.5900      | 31.42                    | 9.78              | 41.20                    | 60.00         | -18.80     | QP       |         |
| 12  |     | 19.5900      | 13.90                    | 9.78              | 23.68                    | 50.00         | -26.32     | AVG      |         |



|                |                                      |                    |        |
|----------------|--------------------------------------|--------------------|--------|
| EUT:           | Bluetooth Speaker Wireless Powerbank | Model Name:        | XJ0825 |
| Temperature:   | 26 °C                                | Relative Humidity: | 55%    |
| Pressure:      | 101kPa                               | Phase :            | N      |
| Test Voltage : | DC 5V form Adapter AC 120V/60Hz      | Test Mode:         | Normal |



Remark:

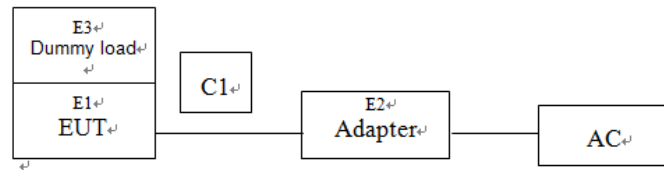
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor | Measure-<br>ment<br>dBuV | Limit<br>dBuV | Over<br>dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------|--------------------------|---------------|------------|----------|---------|
| 1   |     | 0.1539       | 36.31                    | 9.52              | 45.83                    | 65.79         | -19.96     | QP       |         |
| 2   |     | 0.1539       | 19.08                    | 9.52              | 28.60                    | 55.79         | -27.19     | AVG      |         |
| 3   |     | 0.9180       | 39.14                    | 9.59              | 48.73                    | 56.00         | -7.27      | QP       |         |
| 4   |     | 0.9180       | 28.60                    | 9.59              | 38.19                    | 46.00         | -7.81      | AVG      |         |
| 5   | *   | 1.8300       | 39.78                    | 9.59              | 49.37                    | 56.00         | -6.63      | QP       |         |
| 6   |     | 1.8300       | 26.19                    | 9.59              | 35.78                    | 46.00         | -10.22     | AVG      |         |
| 7   |     | 2.7460       | 36.91                    | 9.64              | 46.55                    | 56.00         | -9.45      | QP       |         |
| 8   |     | 2.7460       | 24.32                    | 9.64              | 33.96                    | 46.00         | -12.04     | AVG      |         |
| 9   |     | 7.3220       | 35.84                    | 9.72              | 45.56                    | 60.00         | -14.44     | QP       |         |
| 10  |     | 7.3220       | 21.33                    | 9.72              | 31.05                    | 50.00         | -18.95     | AVG      |         |
| 11  |     | 12.3580      | 34.06                    | 9.69              | 43.75                    | 60.00         | -16.25     | QP       |         |
| 12  |     | 12.3580      | 17.14                    | 9.69              | 26.83                    | 50.00         | -23.17     | AVG      |         |

## 6. RADIATED EMISSION MEASUREMENT

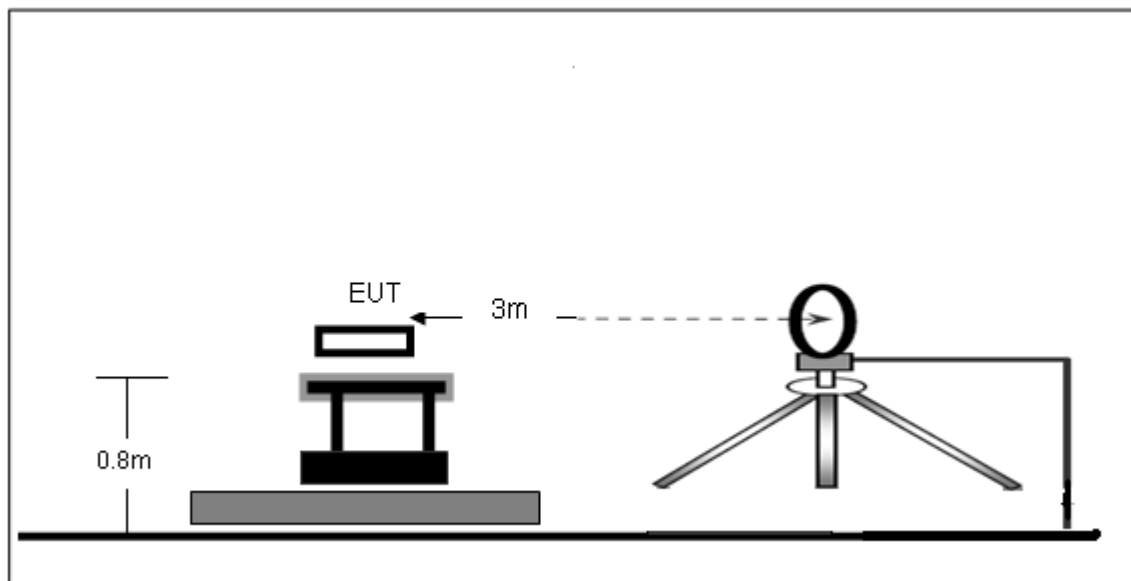
### 6.1. Block Diagram of Test Setup

#### 6.1.1. Block Diagram of connection between the EUT and the simulators

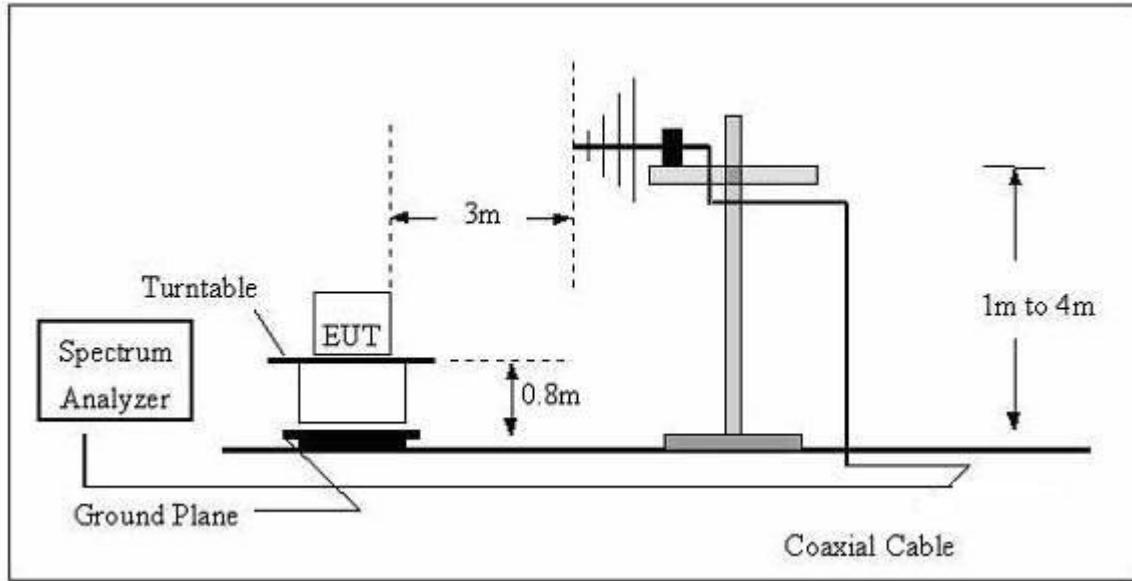


#### 6.1.2. Anechoic Chamber Test Setup Diagram

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



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



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.205 limits.

## 6.2. Test Standard and 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                        |



### 6.3.EMI Test Receiver Setup

The system was investigated from 9kHz to1GHz.

During the radiated emission test, the EMI test receiver setup was set with the following configurations:

| Frequency Range   | RBW     | Video B/W | Detector |
|-------------------|---------|-----------|----------|
| 9 kHz – 150 kHz   | 200 kHz | 1 kHz     | QP       |
| 150 kHz – 30MHz   | 9kHz    | 30kHz     | QP       |
| 30 MHz – 1000 MHz | 120 kHz | 300 kHz   | QP       |

Note: For the frequency bands 9-90 kHz and 110-490 kHz, the test was based on average detector.

### 6.4.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.

### 6.5.Test Result

PASS



## 9kHz-30MHz

|                |                                      |                    |            |
|----------------|--------------------------------------|--------------------|------------|
| EUT:           | Bluetooth Speaker Wireless Powerbank | Model Name:        | XJ0825     |
| Temperature:   | 26 °C                                | Relative Humidity: | 54%        |
| Pressure:      | 101kPa                               | Polarization :     | Horizontal |
| Test Voltage : | DC 5V form Adapter AC 120V/60Hz      |                    |            |
| Test Mode :    | Normal                               |                    |            |

| Frequency<br>(kHz) | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Detector Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|---------------|
| 24.3400            | 39.49                   | 20.15          | 59.64                      | 141.88             | -82.24         |               |
| 24.3400            | 36.12                   | 20.15          | 56.27                      | 121.88             | -65.61         | AV            |
| 56.3900            | 50.67                   | 20.33          | 71.00                      | 133.06             | -62.06         | PK            |
| 56.3900            | 46.33                   | 20.33          | 66.66                      | 113.06             | -46.40         | AV            |
| 121.6800           | 68.27                   | 20.55          | 88.82                      | 125.91             | -37.09         | PK            |
| 121.6800           | 63.61                   | 20.55          | 84.16                      | 105.91             | -21.75         | AV            |
| 685.7800           | 31.13                   | 20.64          | 51.77                      | 70.88              | -19.11         | QP            |
| 965.6500           | 35.12                   | 21.26          | 56.38                      | 67.88              | -11.50         | QP            |
| 1222.3500          | 24.69                   | 22.32          | 47.01                      | 65.81              | -18.80         | QP            |

**Note:**

Pre-scan in the all of mode, the worst case in of was recorded.

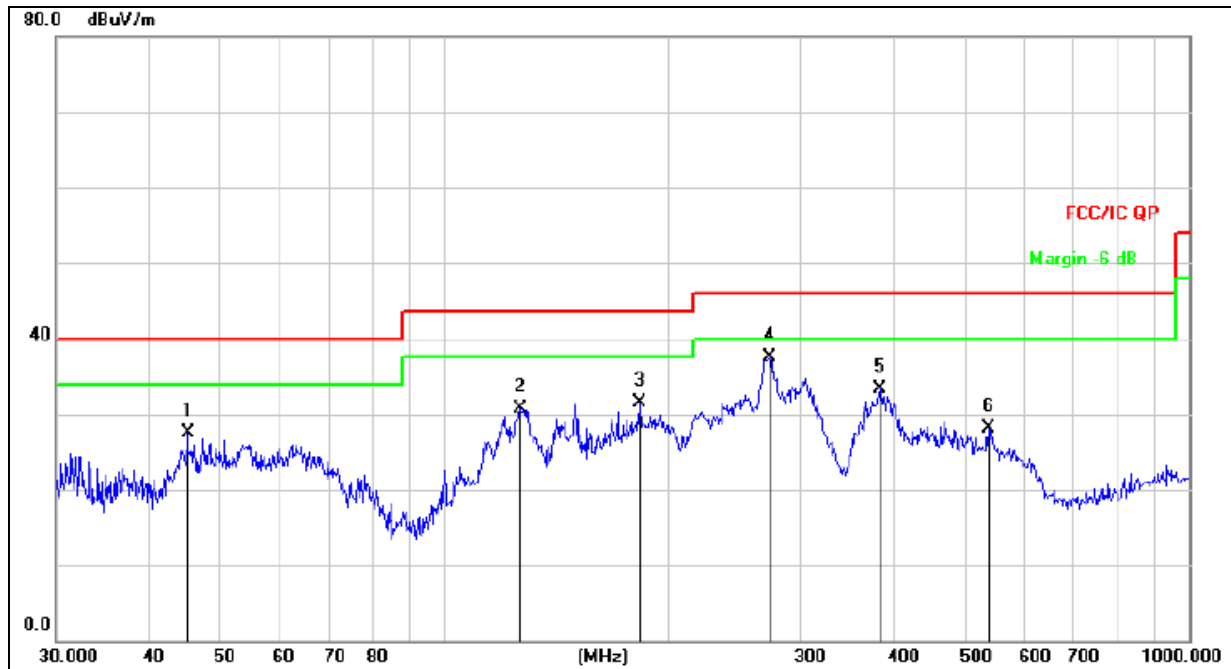
Factor = antenna factor + cable loss – pre-amplifier.

Margin = Emission Level- Limit.



### 30MHz-1GHz

|                |                                      |                    |            |
|----------------|--------------------------------------|--------------------|------------|
| EUT:           | Bluetooth Speaker Wireless Powerbank | Model Name:        | XJ0825     |
| Temperature:   | 26 °C                                | Relative Humidity: | 54%        |
| Pressure:      | 101kPa                               | Polarization :     | Horizontal |
| Test Voltage : | DC 3.7V                              |                    |            |
| Test Mode :    | Wireless Output                      |                    |            |

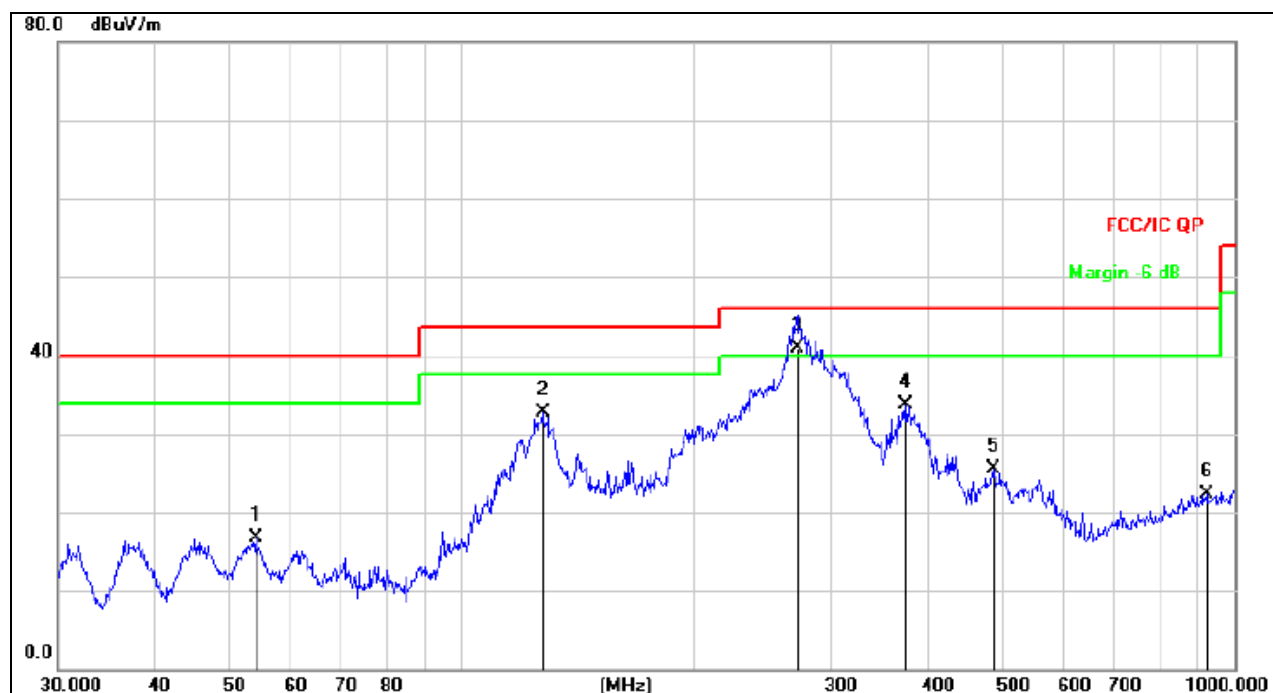


Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| 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   |     | 45.0583      | 42.70                    | -15.13                  | 27.57                      | 40.00         | -12.43     | QP       |
| 2   |     | 126.3286     | 48.59                    | -17.98                  | 30.61                      | 43.50         | -12.89     | QP       |
| 3   |     | 182.5592     | 48.96                    | -17.42                  | 31.54                      | 43.50         | -11.96     | QP       |
| 4   | *   | 273.2341     | 51.88                    | -14.43                  | 37.45                      | 46.00         | -8.55      | QP       |
| 5   |     | 383.9318     | 44.86                    | -11.46                  | 33.40                      | 46.00         | -12.60     | QP       |
| 6   |     | 537.5891     | 36.13                    | -7.99                   | 28.14                      | 46.00         | -17.86     | QP       |



|                |                                      |                    |          |
|----------------|--------------------------------------|--------------------|----------|
| EUT:           | Bluetooth Speaker Wireless Powerbank | Model Name:        | XJ0825   |
| Temperature:   | 26 °C                                | Relative Humidity: | 54%      |
| Pressure:      | 101kPa                               | Polarization :     | Vertical |
| Test Voltage : | DC 3.7V                              |                    |          |
| Test Mode :    | Wireless Output                      |                    |          |



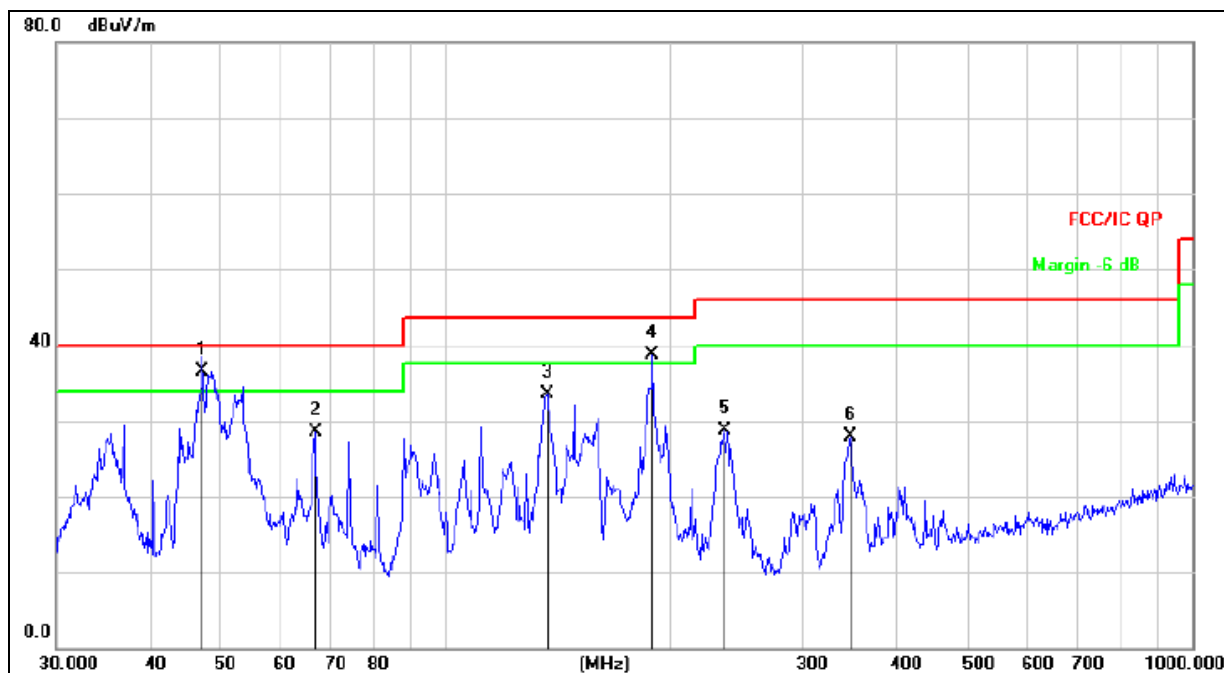
Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|-------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dB/m  | dB     | Detector |
| 1   |     | 54.0711  | 31.96         | -15.28         | 16.68       | 40.00 | -23.32 | QP       |
| 2   |     | 127.2176 | 50.74         | -18.03         | 32.71       | 43.50 | -10.79 | QP       |
| 3   | *   | 271.6892 | 55.44         | -14.48         | 40.96       | 46.00 | -5.04  | QP       |
| 4   |     | 374.6225 | 45.46         | -11.67         | 33.79       | 46.00 | -12.21 | QP       |
| 5   |     | 487.3151 | 34.63         | -9.20          | 25.43       | 46.00 | -20.57 | QP       |
| 6   |     | 919.2866 | 23.63         | -1.35          | 22.28       | 46.00 | -23.72 | QP       |



|                |                                      |                    |            |
|----------------|--------------------------------------|--------------------|------------|
| EUT:           | Bluetooth Speaker Wireless Powerbank | Model Name:        | XJ0825     |
| Temperature:   | 26 °C                                | Relative Humidity: | 54%        |
| Pressure:      | 101kPa                               | Polarization :     | Horizontal |
| Test Voltage : | DC 5V                                |                    |            |
| Test Mode :    | Wireless Input                       |                    |            |

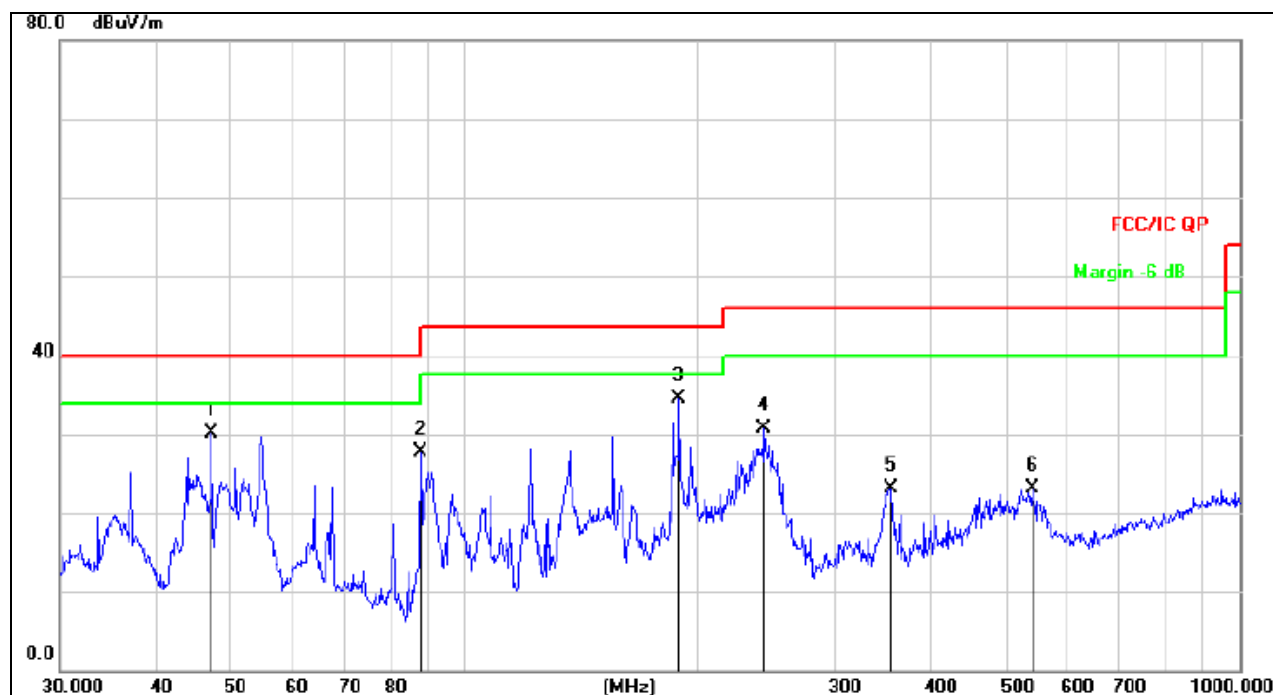


Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measure-ment | Limit | Over   |          |
|-----|-----|----------|---------------|----------------|--------------|-------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m       | dB/m  | dB     | Detector |
| 1   | *   | 47.1599  | 51.57         | -15.01         | 36.56        | 40.00 | -3.44  | QP       |
| 2   |     | 66.7325  | 45.88         | -17.45         | 28.43        | 40.00 | -11.57 | QP       |
| 3   |     | 136.4598 | 52.12         | -18.63         | 33.49        | 43.50 | -10.01 | QP       |
| 4   | !   | 189.0743 | 55.79         | -17.00         | 38.79        | 43.50 | -4.71  | QP       |
| 5   |     | 236.6447 | 44.24         | -15.46         | 28.78        | 46.00 | -17.22 | QP       |
| 6   |     | 348.0274 | 40.13         | -12.28         | 27.85        | 46.00 | -18.15 | QP       |



|                |                                      |                    |          |
|----------------|--------------------------------------|--------------------|----------|
| EUT:           | Bluetooth Speaker Wireless Powerbank | Model Name:        | XJ0825   |
| Temperature:   | 26 °C                                | Relative Humidity: | 54%      |
| Pressure:      | 101kPa                               | Polarization :     | Vertical |
| Test Voltage : | DC 5V                                |                    |          |
| Test Mode :    | Wireless Input                       |                    |          |



Remark:  
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

| 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   |     | 47.1599      | 45.06                    | -15.01                  | 30.05                      | 40.00         | -9.95      | QP       |
| 2   |     | 87.7248      | 46.37                    | -18.63                  | 27.74                      | 40.00         | -12.26     | QP       |
| 3   | *   | 189.0743     | 51.55                    | -17.00                  | 34.55                      | 43.50         | -8.95      | QP       |
| 4   |     | 243.3772     | 45.97                    | -15.30                  | 30.67                      | 46.00         | -15.33     | QP       |
| 5   |     | 354.1831     | 35.32                    | -12.13                  | 23.19                      | 46.00         | -22.81     | QP       |
| 6   |     | 539.4775     | 31.15                    | -7.95                   | 23.20                      | 46.00         | -22.80     | QP       |



## 7. BANDWIDTH TEST

1. Set RBW = 3 kHz.
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.

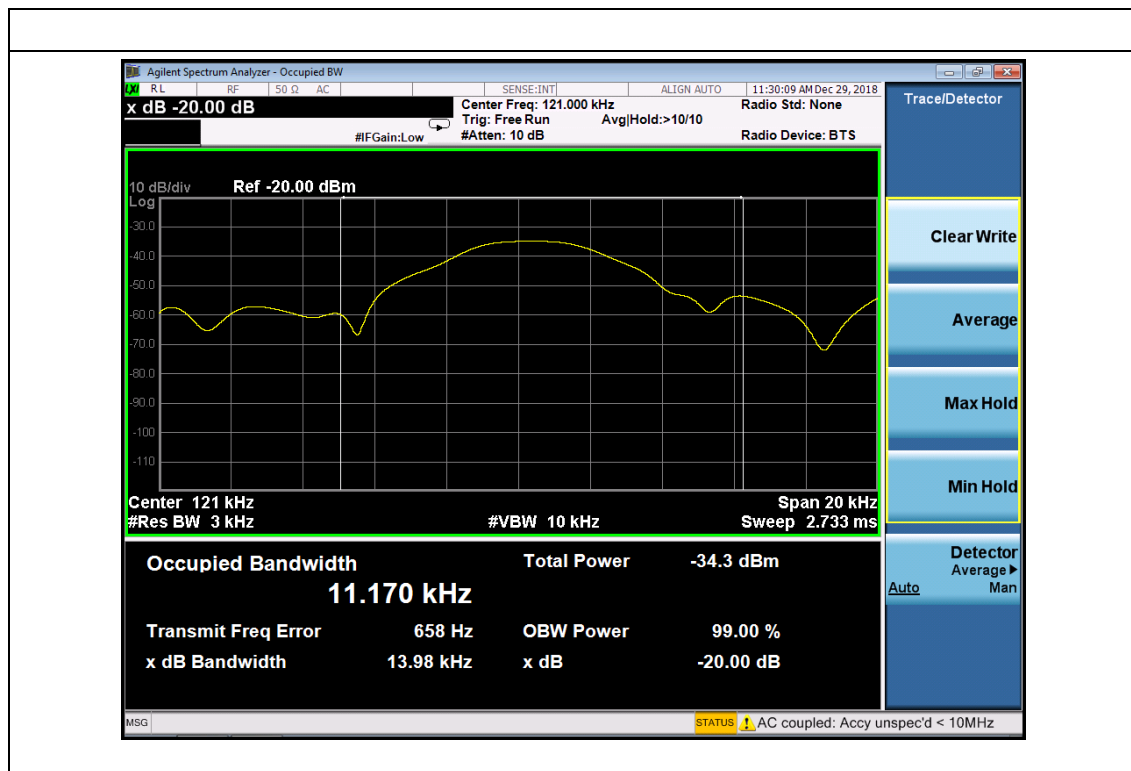
### TEST SETUP





|              |                                      |                    |        |
|--------------|--------------------------------------|--------------------|--------|
| EUT:         | Bluetooth Speaker Wireless Powerbank | Model Name:        | XJ0825 |
| Temperature: | 26 °C                                | Relative Humidity: | 54%    |
| Pressure:    | 101kPa                               |                    |        |

| Frequency (KHz) | 20dB bandwidth (KHz) | 99% bandwidth (KHz) | Result |
|-----------------|----------------------|---------------------|--------|
| 121             | 13.98                | 11.17               | Pass   |





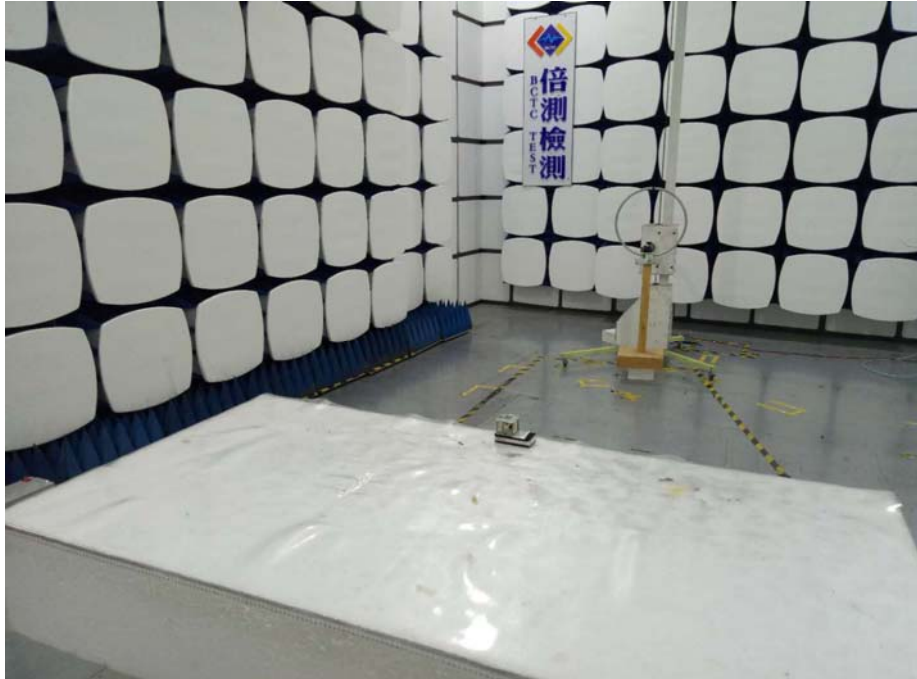
## 8. EUT TEST PHOTOS

**Conducted Measurement Photos**





**Radiated Measurement Photos**  
9KHz-30MHz



30MHz-1GHz





## 9. EUT PHOTOS



\*\*\*\*\* END OF REPORT \*\*\*\*\*