

**ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT  
INTENTIONAL RADIATOR CERTIFICATION TO  
FCC PART 15 SUBPART C REQUIREMENT**

*OF*

**Wireless charger with Touch Night Light**

**Model No.: ELBL-M07, GYQi-Eclipse**

**Trademark: N/A**

**FCC ID: ZWUELBL-M07**

**Report No.: EA2005260F 02001**

**Issue Date: May 25, 2020**

*Prepared for*

**Everbest Co., Ltd.  
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*Prepared by*

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Zone, Dongguan City, Guangdong Pr., China.**

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Dong Guan Anci Electronic Technology Co., Ltd.**

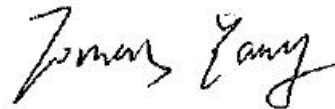
**VERIFICATION OF COMPLIANCE**

|                      |                                                                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant:           | Everbest Co., Ltd.<br>Unit 704, 7/FL., Vanta Industrial Centre, 21-33 Tai Lin Pai Road, Kwai Chung,<br>New Territories, Hong Kong         |
| Manufacturer:        | Yongguan Electronic Technology (D.G.)LTD<br>NO.6, xinfeng W.3R,, Mowu, Wanjiang, Dongguan city, China                                     |
| Buyer name:          | TP LIGHTING TECHNOLOGY LIMITED                                                                                                            |
| Product Description: | Wireless charger with Touch Night Light                                                                                                   |
| Trade Mark:          | N/A                                                                                                                                       |
| Model Number:        | ELBL-M07, GYQi-Eclipse<br>(Note: All models are identical except for the different model names. We chose<br>model:ELBL-M07 for all tests. |

**We hereby certify that:**

The above equipment was tested by Dong Guan Anci Electronic Technology Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10-2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.209.

Date of Test : May 19, 2020 to May 25, 2020



Prepared by : Tomas Yang/Supervisor



Reviewer &  
Authorized Signer : Alan He/Manager



## Modified Information

| Version | Summary         | Revision Date | Report No.       |
|---------|-----------------|---------------|------------------|
| Ver.1.0 | Original Report | /             | EA2005260F 02001 |
|         |                 |               |                  |
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## 1 General Information

### 1.1 Product Description

| Characteristics         | Description                             |
|-------------------------|-----------------------------------------|
| Product Name            | Wireless charger with Touch Night Light |
| Model number            | ELBL-M07                                |
| Operation Mode          | Wireless Charging                       |
| Input Rating            | DC 5V /3A 9V/2A                         |
| Power Supply            | AC120V/60Hz for adapter                 |
| Operating Frequency     | 110-205KHz                              |
| Wireless Charging Power | 10W Max                                 |
| Modulation Technique    | ASK                                     |
| Antenna Type            | Induction coil                          |

## 1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: ZWUELBL-M07 filing to comply with the FCC Part 15, Subpart C Rules.

## 1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

## 1.4 Special Accessories

Not available for this EUT intended for grant.

## 1.5 Equipment Modifications

Not available for this EUT intended for grant.

## 1.6 Test Facility

|                              |   |                                                                                                                                                                                                                                                                                                                                      |
|------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Site Description<br>EMC Lab. | : | Accredited by CNAS, 2017.06.26<br>The certificate is valid until 2022.10.28<br>The Laboratory has been assessed and proved to be in compliance with<br>CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)<br>The Certificate Registration Number is L0468.<br><br>Accredited by A2LA, 2018.03.15<br>The Certificate Number is 4422.01. |
| Name of Firm                 | : | Dong Guan Anci Electronic Technology Co., Ltd.                                                                                                                                                                                                                                                                                       |
| Site Location                | : | 1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan, Lake<br>Hi-tech Industrial Development Zone, Dongguan City, development Zone,<br>Dongguan City, Guangdong Pr., China.                                                                                                                                                   |

## **2 System Test Configuration**

### **2.1 EUT Configuration**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### **2.2 EUT Exercise**

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

### **2.3 Test Procedure**

#### **2.3.1 Conducted Emissions**

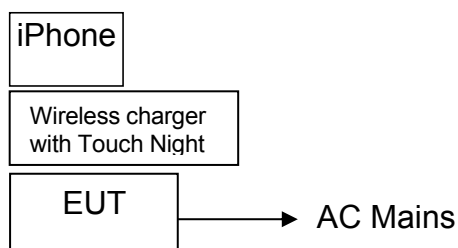
The EUT is placed on a turn table which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

#### **2.3.2 Radiated Emissions**

The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the fixed in a particular direction according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013.

## 2.4 Configuration of Tested System

**Fig. 2-1 Configuration of Tested System**



**Table 2-1 Equipment Used in Tested System**

| Item | Equipment                               | Trade Mark | Model No.                                                                    | FCC ID      | Note                     |
|------|-----------------------------------------|------------|------------------------------------------------------------------------------|-------------|--------------------------|
| 1.   | Wireless charger with Touch Night Light | N/A        | ELBL-M07                                                                     | ZWUELBL-M07 | <b>EUT</b>               |
| 2.   | Adapter                                 | MI         | Model:MDY-08-EH<br>Input: AC 100-240V, 50/60Hz<br>Output: DC 5V/2.5A,DC 9/2A | N/A         | <b>Support EUT</b>       |
| 3.   | SAMSUNG S9                              | SAMSUNG    | Samsung Galaxy S9                                                            | N/A         | <b>Support Equipment</b> |

**Note:**

- (1) Unless otherwise denoted as EUT in 『Remark』 column, device(s) used in tested system is a support equipment.

## 3 Summary of Test Results

| FCC Rules | Description Of Test         | Result    |
|-----------|-----------------------------|-----------|
| §15.207   | AC Power Conducted Emission | Compliant |
| §15.209   | Radiated Emission           | Compliant |
| §2.1049   | 20dB Bandwidth              | Compliant |
| §15.203   | Antenna Requirement         | Compliant |

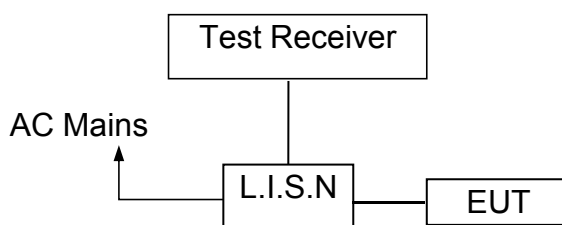


## 4 Conducted Emissions Test

### 4.1 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

### 4.2 Test SET-UP (Block Diagram of Configuration)



### 4.3 Measurement Equipment Used

| EQUIPMENT TYPE    | MFR           | MODEL NUMBER | SERIAL NUMBER | Calibrated until |
|-------------------|---------------|--------------|---------------|------------------|
| L.I.S.N           | SCHWARZBECK   | NSLK 8127    | 8127-669      | 2021-05-18       |
| 10 db attenuator  | JFW           | 50FP-010-H4  | 4360846-427-1 | 2021-05-18       |
| RF Cable          | N/A           | N/A          | 2#            | 2021-05-18       |
| EMI Test Receiver | ROHDE&SCHWARZ | ESCI         | 101358        | 2021-05-18       |

### 4.4 Conducted Emission Limit

#### Conducted Emission

##### Frequency(MHz)

##### Quasi-peak

##### Average

0.15-0.5

66-56

56-46

0.5-5.0

56

46

5.0-30.0

60

50

**Note:** 1. The lower limit shall apply at the transition frequencies

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

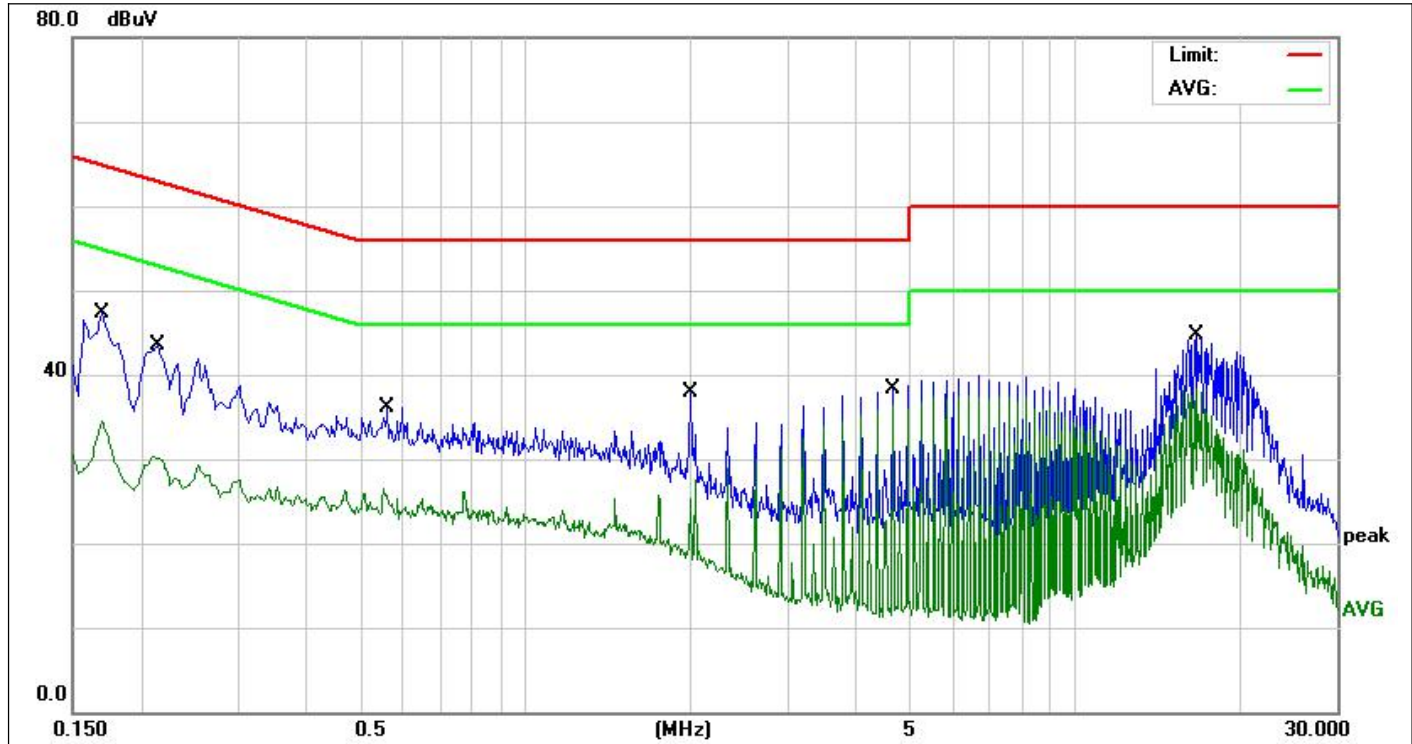
#### 4.5 Measurement Result

|                  |               |               |              |
|------------------|---------------|---------------|--------------|
| Operation Mode:  | TX            | Test Date :   | May 19, 2020 |
| Frequency Range: | 0.15MHz~30MHz | Temperature : | 28°C         |
| Test Result:     | PASS          | Humidity :    | 65 %         |
| Test By:         | Best          |               |              |

Pass

We pretested modes (Wireless Charging(10W),Wireless Charging(5W)) for EUT. The worst test data see follow the table.

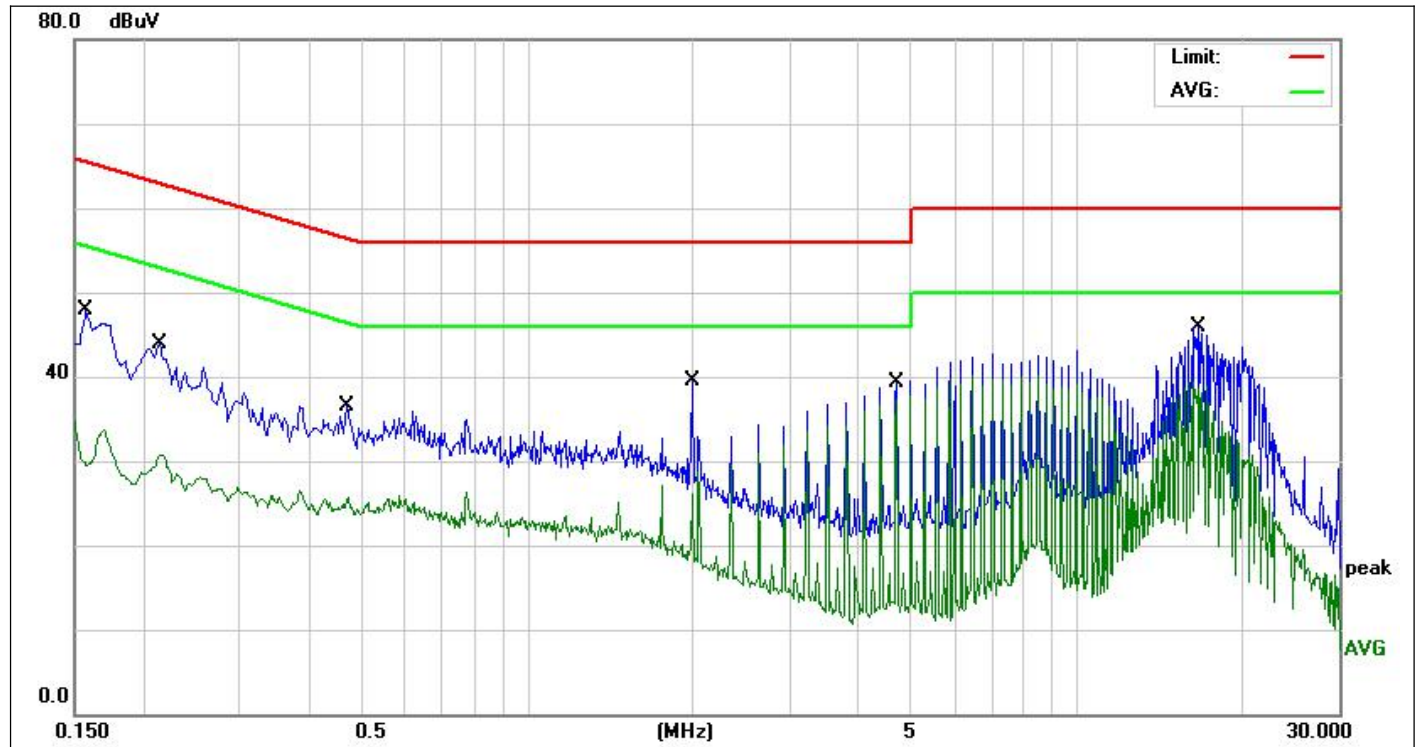
**Test mode: Wireless Charging 10W use Samsung S9**



|        |                                         |                |              |                 |       |
|--------|-----------------------------------------|----------------|--------------|-----------------|-------|
| Site:  | 843                                     | Phase:         | N            | Temperature(C): | 26(C) |
| Limit: | FCC Part 15 C Conduction(QP)            | Test Time:     |              | Humidity(%):    | 60%   |
| EUT:   | Wireless charger with Touch Night Light | Power Rating:  | AC 120V/60Hz |                 |       |
| M/N.:  | ELBL-M07                                | Test Engineer: | Jack         |                 |       |
| Mode:  | Wireless Charging 10W                   |                |              |                 |       |
| Note:  |                                         |                |              |                 |       |

| No.  | Frequency (MHz) | Reading Level(dBuV) | Factor (dB) | Measure-ment(dBuV) | Limit (dBuV) | Over (dB) | Detector | Comment |
|------|-----------------|---------------------|-------------|--------------------|--------------|-----------|----------|---------|
| 1    | 0.1700          | 33.06               | 9.75        | 42.81              | 64.96        | -22.15    | QP       |         |
| 2    | 0.1700          | 23.17               | 9.75        | 32.92              | 54.96        | -22.04    | AVG      |         |
| 3    | 0.2140          | 30.02               | 9.77        | 39.79              | 63.04        | -23.25    | QP       |         |
| 4    | 0.2140          | 20.32               | 9.77        | 30.09              | 53.04        | -22.95    | AVG      |         |
| 5    | 0.5620          | 21.03               | 9.78        | 30.81              | 56.00        | -25.19    | QP       |         |
| 6    | 0.5620          | 15.75               | 9.78        | 25.53              | 46.00        | -20.47    | AVG      |         |
| 7    | 2.0020          | 26.67               | 9.88        | 36.55              | 56.00        | -19.45    | QP       |         |
| 8    | 2.0020          | 15.56               | 9.88        | 25.44              | 46.00        | -20.56    | AVG      |         |
| 9    | 4.6700          | 26.60               | 9.93        | 36.53              | 56.00        | -19.47    | QP       |         |
| 10 * | 4.6700          | 25.68               | 9.93        | 35.61              | 46.00        | -10.39    | AVG      |         |
| 11   | 16.6380         | 30.95               | 10.11       | 41.06              | 60.00        | -18.94    | QP       |         |
| 12   | 16.6380         | 25.19               | 10.11       | 35.30              | 50.00        | -14.70    | AVG      |         |

\*:Maximum data x:Over limit !:over margin



|        |                                         |                |              |                 |       |
|--------|-----------------------------------------|----------------|--------------|-----------------|-------|
| Site:  | 843                                     | Phase:         | L1           | Temperature(C): | 26(C) |
| Limit: | FCC Part 15 C Conduction(QP)            | Test Time:     |              | Humidity(%):    | 60%   |
| EUT:   | Wireless charger with Touch Night Light | Power Rating:  | AC 120V/60Hz | May 19, 2020    |       |
| M/N.:  | ELBL-M07                                | Test Engineer: | Jack         |                 |       |
| Mode:  | Wireless Charging 10W                   |                |              |                 |       |
| Note:  |                                         |                |              |                 |       |

| No.  | Frequency (MHz) | Reading Level(dBuV) | Factor (dB) | Measurement(dBuV) | Limit (dBuV) | Over (dB) | Detector | Comment |
|------|-----------------|---------------------|-------------|-------------------|--------------|-----------|----------|---------|
| 1    | 0.1580          | 29.06               | 9.73        | 38.79             | 65.56        | -26.77    | QP       |         |
| 2    | 0.1580          | 19.13               | 9.73        | 28.86             | 55.56        | -26.70    | AVG      |         |
| 3    | 0.2162          | 30.44               | 9.79        | 40.23             | 62.96        | -22.73    | QP       |         |
| 4    | 0.2162          | 20.03               | 9.79        | 29.82             | 52.96        | -23.14    | AVG      |         |
| 5    | 0.4700          | 20.70               | 9.78        | 30.48             | 56.51        | -26.03    | QP       |         |
| 6    | 0.4700          | 15.50               | 9.78        | 25.28             | 46.51        | -21.23    | AVG      |         |
| 7    | 1.9980          | 27.59               | 9.87        | 37.46             | 56.00        | -18.54    | QP       |         |
| 8    | 1.9980          | 16.32               | 9.87        | 26.19             | 46.00        | -19.81    | AVG      |         |
| 9    | 4.6979          | 8.62                | 9.88        | 18.50             | 56.00        | -37.50    | QP       |         |
| 10   | 4.6979          | 2.95                | 9.88        | 12.83             | 46.00        | -33.17    | AVG      |         |
| 11   | 16.6299         | 32.78               | 10.15       | 42.93             | 60.00        | -17.07    | QP       |         |
| 12 * | 16.6299         | 27.40               | 10.15       | 37.55             | 50.00        | -12.45    | AVG      |         |

**4.6 Conducted Measurement Photo**

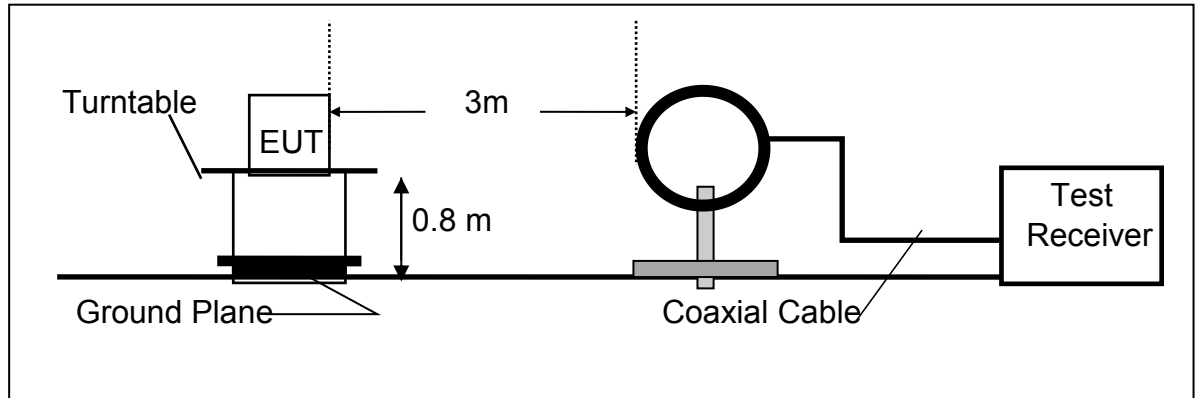
## 5 Radiated Emission Test

### 5.1 Measurement Procedure

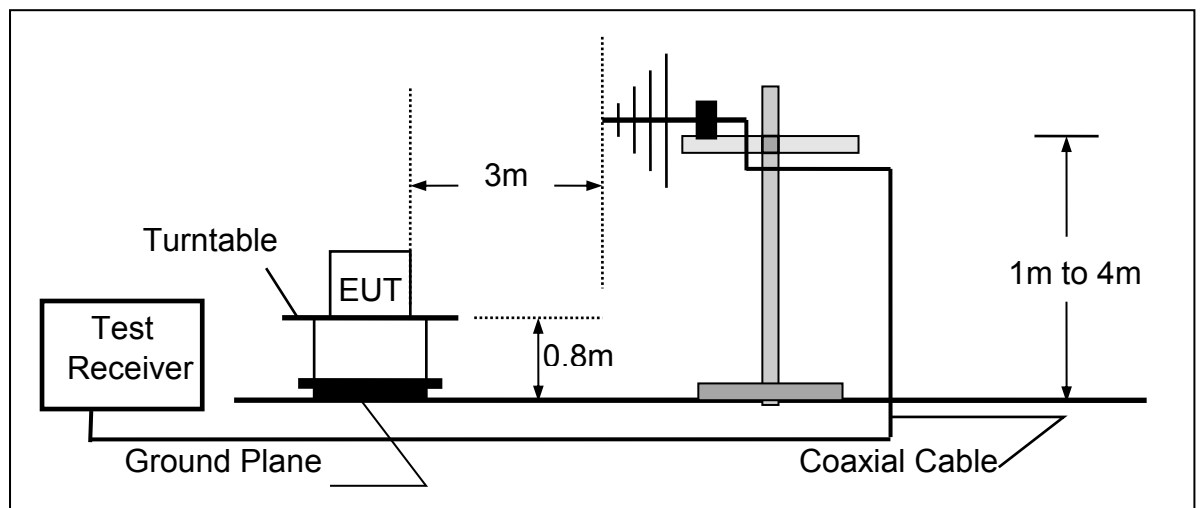
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

### 5.2 Test SET-UP (Block Diagram of Configuration)

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



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



### 5.3 Measurement Equipment Used

| Item | Equipment                | Manufacturer       | Model No.              | Serial No.   | Calibrated until |
|------|--------------------------|--------------------|------------------------|--------------|------------------|
| 1.   | EMI Test Receiver        | Rohde & Schwarz    | ESPI                   | 100502       | 2020-11-28       |
| 2.   | Pre-Amplifier            | HP                 | 8447D                  | 2727A06172   | 2021-05-18       |
| 3.   | Bilog Antenna            | Schwarzbeck        | VULB9163               | VULB9163-588 | 2021-05-18       |
| 4.   | Loop Antenna             | Schwarzbeck        | FMZB 1516              | 1516-141     | 2020-11-28       |
| 5.   | RF Cable                 | Gigalink Microwave | ZT40-2.92J-2.92 J-2m   | N/A          | 2020-11-28       |
| 6.   | RF Cable                 | Gigalink Microwave | ZT40-2.92J-2.92 J-0.3m | N/A          | 2020-11-28       |
| 7.   | RF Cable                 | N/A                | N/A                    | 6#           | 2021-05-18       |
| 8.   | 3m Semi-anechoic Chamber | chengyu            | 9m*6m*6m               | N/A          | 2021-05-18       |
| 9.   | Test Software            | Farad              | EZ-EMC Ver:ANCI-3A1    | N/A          | N/A              |

### 5.4 Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

| FCC Part 15.209 |                           |      |                                                                 |                                   |
|-----------------|---------------------------|------|-----------------------------------------------------------------|-----------------------------------|
| Frequency (MHz) | Field Strength Limitation |      | Field Strength Limitation Frequency tion at 3m Measurement Dist |                                   |
|                 | (uV/m)                    | Dist | (uV/m)                                                          | (dBuV/m)                          |
| 0.009 – 0.490   | $2400 / F(\text{KHz})$    | 300m | $10000 * 2400/F(\text{KHz})$                                    | $20\log 2400/F(\text{KHz}) + 80$  |
| 0.490 – 1.705   | $24000 / F(\text{KHz})$   | 30m  | $100 * 24000/F(\text{KHz})$                                     | $20\log 24000/F(\text{KHz}) + 40$ |
| 1.705 – 30.00   | 30                        | 30m  | $100 * 30$                                                      | $20\log 30 + 40$                  |
| 30.0 – 88.0     | 100                       | 3m   | 100                                                             | $20\log 100$                      |
| 88.0 – 216.0    | 150                       | 3m   | 150                                                             | $20\log 150$                      |
| 216.0 – 960.0   | 200                       | 3m   | 200                                                             | $20\log 200$                      |
| Above 960.0     | 500                       | 3m   | 500                                                             | $20\log 500$                      |



### 15.205 Restricted bands of operation

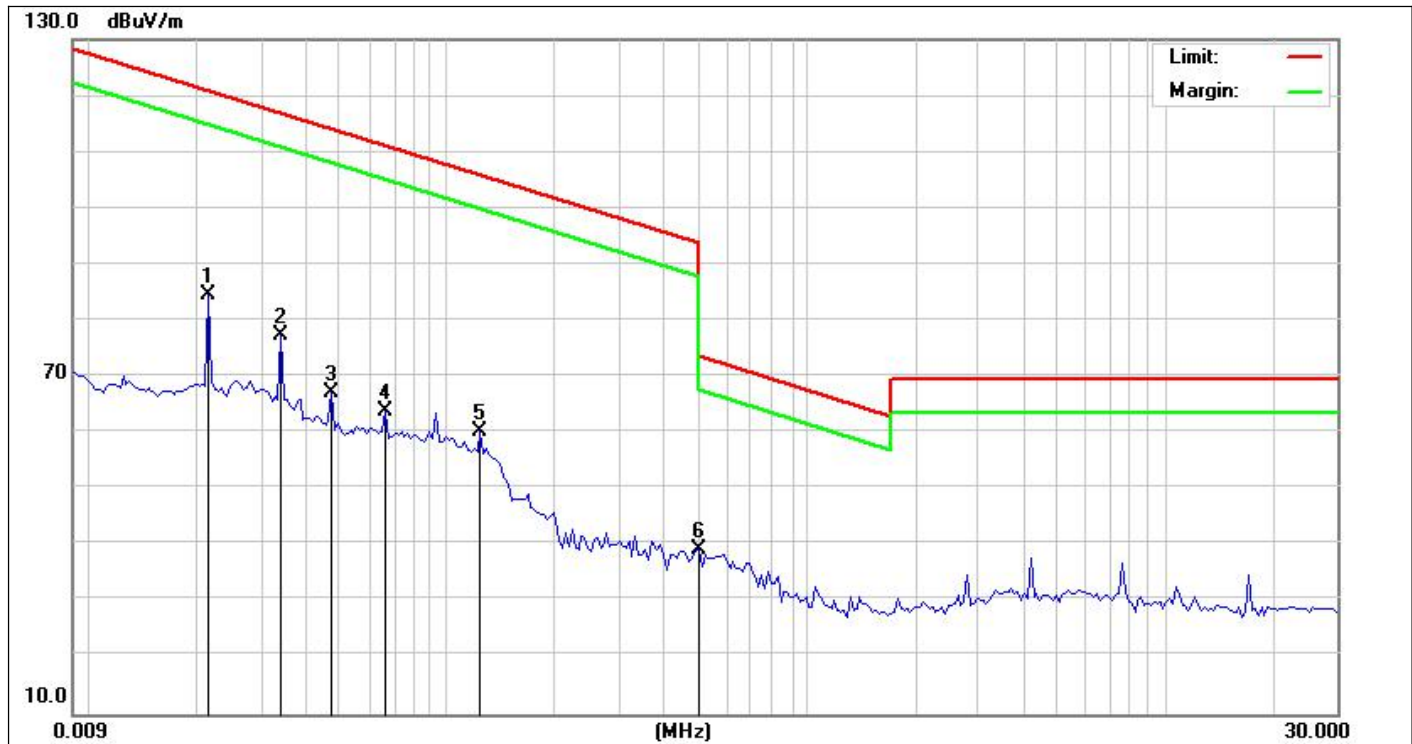
| MHz                        | MHz                   | MHz             | GHz              |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110              | 16.42 - 16.423        | 399.9 - 410     | 4.5 - 5.15       |
| <sup>1</sup> 0.495 - 0.505 | 16.69475 - 16.69525   | 608 - 614       | 5.35 - 5.46      |
| 2.1735 - 2.1905            | 16.80425 - 16.80475   | 960 - 1240      | 7.25 - 7.75      |
| 4.125 - 4.128              | 25.5 - 25.67          | 1300 - 1427     | 8.025 - 8.5      |
| 4.17725 - 4.17775          | 37.5 - 38.25          | 1435 - 1626.5   | 9.0 - 9.2        |
| 4.20725 - 4.20775          | 73 - 74.6             | 1645.5 - 1646.5 | 9.3 - 9.5        |
| 6.215 - 6.218              | 74.8 - 75.2           | 1660 - 1710     | 10.6 - 12.7      |
| 6.26775 - 6.26825          | 108 - 121.94          | 1718.8 - 1722.2 | 13.25 - 13.4     |
| 6.31175 - 6.31225          | 123 - 138             | 2200 - 2300     | 14.47 - 14.5     |
| 8.291 - 8.294              | 149.9 - 150.05        | 2310 - 2390     | 15.35 - 16.2     |
| 8.362 - 8.366              | 156.52475 - 156.52525 | 2483.5 - 2500   | 17.7 - 21.4      |
| 8.37625 - 8.38675          | 156.7 - 156.9         | 2690 - 2900     | 22.01 - 23.12    |
| 8.41425 - 8.41475          | 162.0125 - 167.17     | 3260 - 3267     | 23.6 - 24.0      |
| 12.29 - 12.293             | 167.72 - 173.2        | 3332 - 3339     | 31.2 - 31.8      |
| 12.51975 - 12.52025        | 240 - 285             | 3345.8 - 3358   | 36.43 - 36.5     |
| 12.57675 - 12.57725        | 322 - 335.4           | 3600 - 4400     | ( <sup>2</sup> ) |

- Remark:
1. Emission level in dBuV/m=20 log (uV/m)
  2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
  3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of § 15.205, and the emissions located in restricted bands also comply with 15.209 limit.



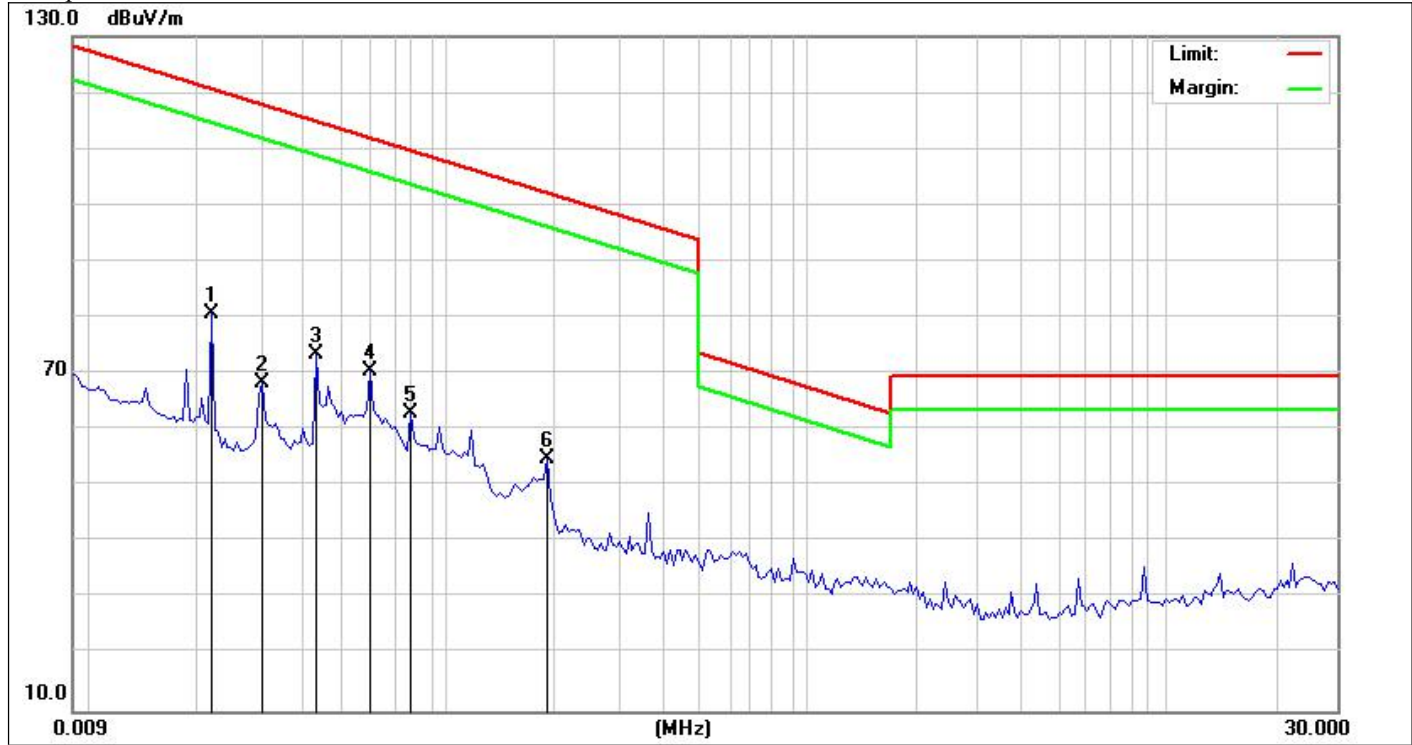
## 5.5 Measurement Result

We pretested modes (Wireless Charging(10W),Wireless Charging(5W)) for EUT. The worst mode (Wireless Charging(10W))test data see follow the table.



|        |                                         |                   |                        |
|--------|-----------------------------------------|-------------------|------------------------|
| Site:  | LAB                                     | Antenna::Vertical | Temperature(C):23.4(C) |
| Limit: | FCC Part 15 Class B 3m Radiation(QP)    | Test Time:        | Humidity(%):56.7%      |
| EUT:   | Wireless charger with Touch Night Light | Power Rating:     | 2020/05/21             |
| M/N.:  | ELBL-M07                                | Test Engineer:    | AC 120V/60Hz           |
| Mode:  | Wireless Charging 10W                   |                   | sunshine               |
| Note:  |                                         |                   |                        |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (deg) | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 0.0212          | 84.67          | -9.12         | 75.55          | 120.91         | -45.36      | QP   |             |               |        |
| 2   | 0.0342          | 77.48          | -9.08         | 68.4           | 116.78         | -48.38      | QP   |             |               |        |
| 3   | 0.0475          | 67.17          | -8.96         | 58.21          | 113.94         | -55.73      | QP   |             |               |        |
| 4   | 0.0670          | 63.97          | -8.85         | 55.12          | 110.98         | -55.86      | QP   |             |               |        |
| 5   | 0.1231          | 90.50          | -7.65         | 82.85          | 105.72         | -22.87      | QP   |             |               |        |
| 6 * | 0.4989          | 69.06          | -7.02         | 62.04          | 73.64          | -11.6       | QP   |             |               |        |



**Site:** LAB  
**Limit:** FCC Part 15 Class B 3m Radiation(QP)  
**EUT:** Wireless charger with Touch Night Light  
**M/N.:** ELBL-M07  
**Mode:** Wireless Charging 10W  
**Note:**

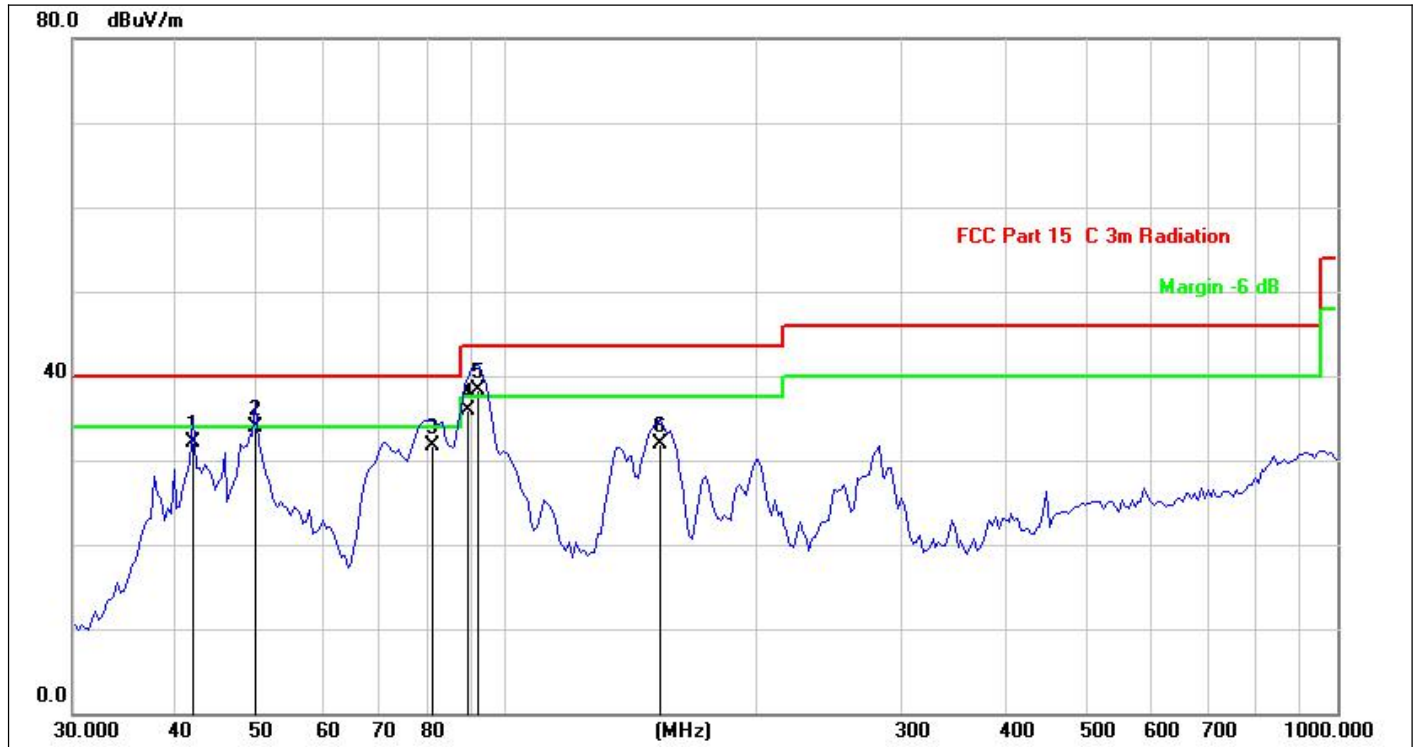
**Antenna::**Horizontal  
**Temperature(C):**23.4(C)  
**Humidity(%):**56.7%  
**Test Time:** 2020/05/21  
**Power Rating:** AC 120V/60Hz  
**Test Engineer:** sunshine

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (deg) | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1 * | 0.0217          | 80.63          | -9.12         | 71.51          | 120.71         | -49.2       | QP   |             |               |        |
| 2   | 0.0303          | 68.40          | -9.08         | 59.32          | 117.83         | -58.51      | QP   |             |               |        |
| 3   | 0.0429          | 73.35          | -8.96         | 64.39          | 114.82         | -50.43      | QP   |             |               |        |
| 4   | 0.0606          | 70.32          | -8.85         | 61.47          | 111.84         | -50.37      | QP   |             |               |        |
| 5   | 0.0786          | 63.08          | -8.15         | 54.93          | 109.60         | -54.67      | QP   |             |               |        |
| 6   | 0.1884          | 85.03          | -7.55         | 77.48          | 102.05         | -24.57      | QP   |             |               |        |

**Note:** (1) All Readings are Peak Value.  
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.  
 (3) The average measurement was not performed when the peak measured data under the limit of average detection.  
 (4) EUT lying on the table position is the worst case result in the report.

We pretested modes (Wireless Charging(10W),Wireless Charging(5W)) for EUT. The worst test data see follow the table.

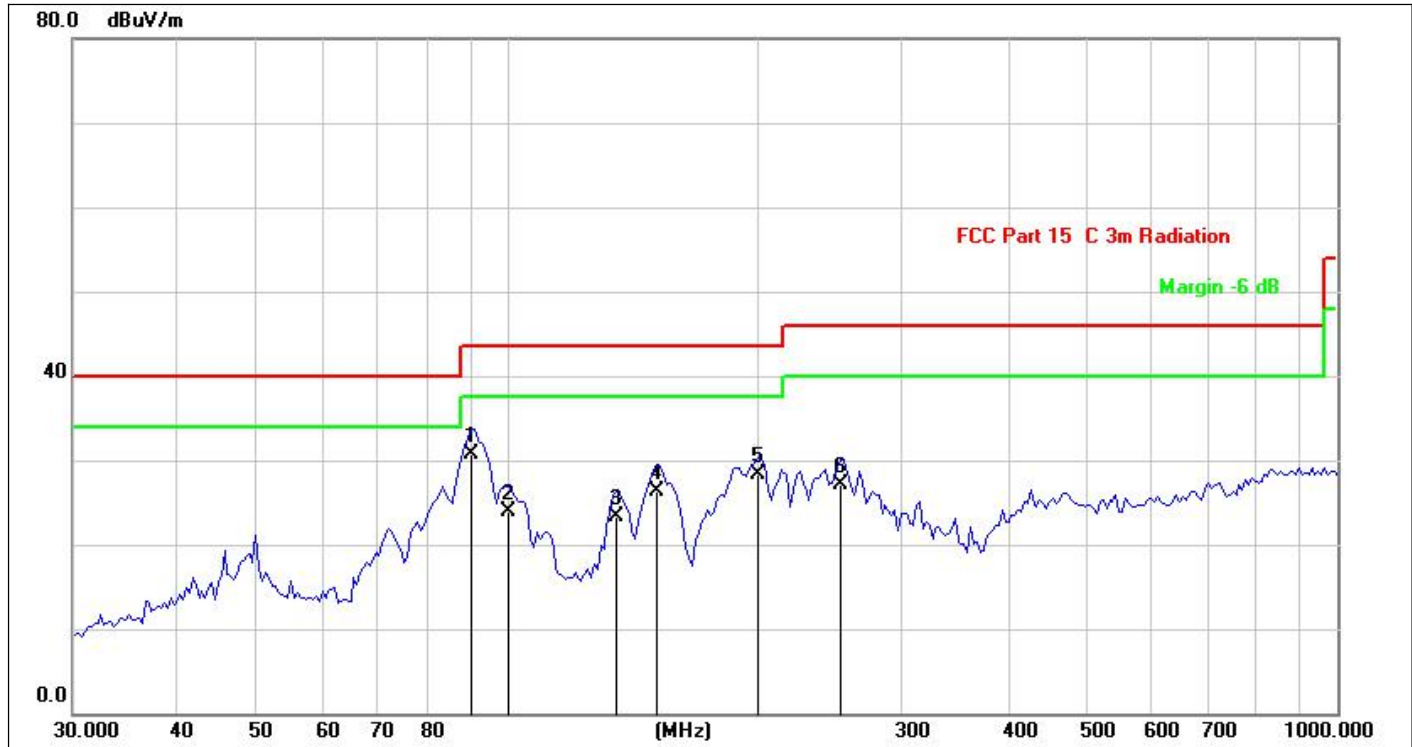
**Test mode: Wireless Charging 10W use Samsung S9**



|        |                                         |                   |                        |
|--------|-----------------------------------------|-------------------|------------------------|
| Site:  | LAB                                     | Antenna::Vertical | Temperature(C):23.4(C) |
| Limit: | FCC Part 15 Class B 3m Radiation(QP)    | Test Time:        | Humidity(%):56.7%      |
| EUT:   | Wireless charger with Touch Night Light | Power Rating:     | 2020/05/21             |
| M/N.:  | ELBL-M07                                | Test Engineer:    | AC 120V/60Hz           |
| Mode:  | Wireless Charging 10W                   |                   | sunshine               |
| Note:  |                                         |                   |                        |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (deg) | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1   | 41.8596         | 45.23          | -13.19        | 32.04          | 40.00          | -7.96       | QP   |             |               |        |
| 2   | 49.8814         | 47.03          | -13.18        | 33.85          | 40.00          | -6.15       | QP   |             |               |        |
| 3   | 81.4970         | 48.71          | -16.93        | 31.78          | 40.00          | -8.22       | QP   |             |               |        |
| 4   | 88.9639         | 50.60          | -14.75        | 35.85          | 43.50          | -7.65       | QP   |             |               |        |
| 5 * | 92.1388         | 52.26          | -13.86        | 38.40          | 43.50          | -5.10       | QP   |             |               |        |
| 6   | 153.2004        | 47.73          | -15.84        | 31.89          | 43.50          | -11.61      | QP   |             |               |        |

\*:Maximum data x:Over limit !:over margin

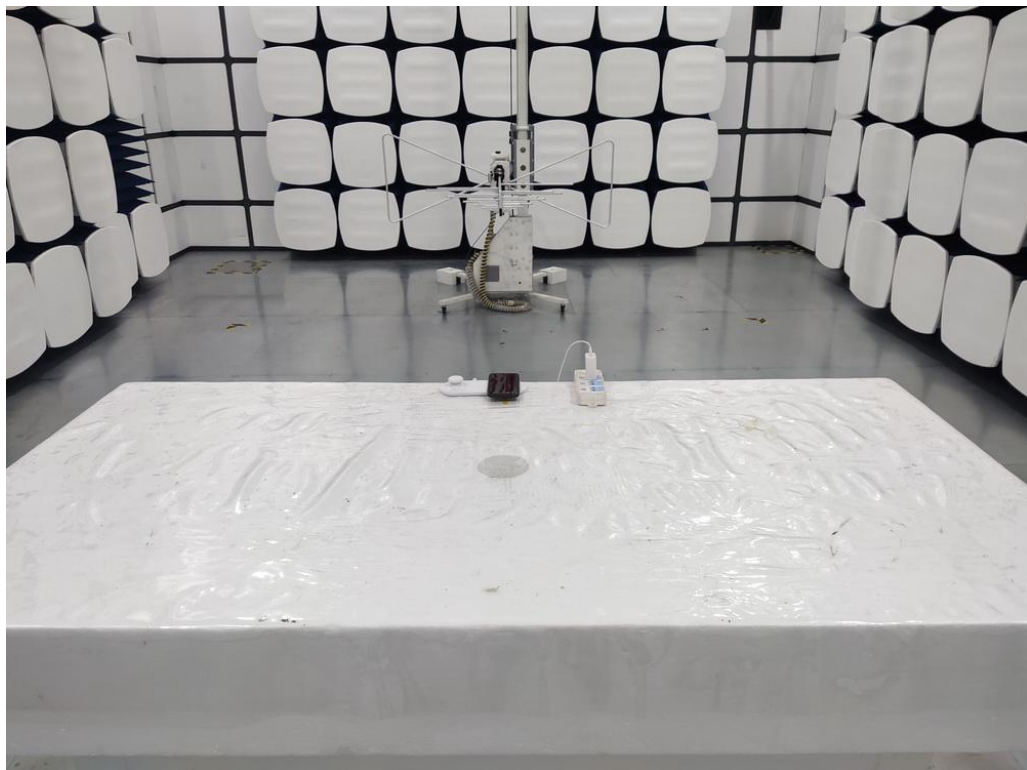
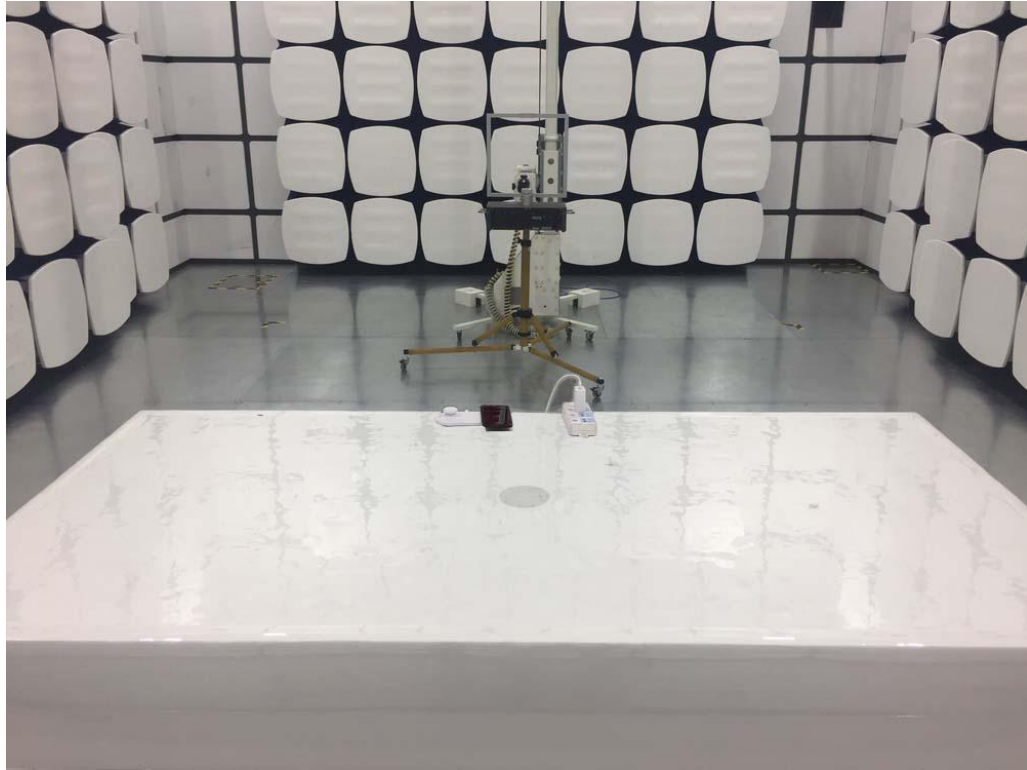


**Site:** LAB  
**Limit:** FCC Part 15 Class B 3m Radiation(QP)  
**EUT:** Wireless charger with Touch Night Light  
**M/N.:** ELBL-M07  
**Mode:** Wireless Charging 10W  
**Note:**

**Antenna::**Horizontal  
**Temperature(C):**23.4(C)  
**Humidity(%):**56.7%  
**Test Time:**  
 2020/05/21  
**Power Rating:** AC 120V/60Hz  
**Test Engineer:** sunshine

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. | Height (cm) | Azimuth (deg) | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|-------------|---------------|--------|
| 1 * | 90.5374         | 44.94          | -14.19        | 30.75          | 43.50          | -12.75      | QP   |             |               |        |
| 2   | 100.5806        | 36.41          | -12.49        | 23.92          | 43.50          | -19.58      | QP   |             |               |        |
| 3   | 135.5062        | 38.31          | -14.97        | 23.34          | 43.50          | -20.16      | QP   |             |               |        |
| 4   | 151.8632        | 42.23          | -15.91        | 26.32          | 43.50          | -17.18      | QP   |             |               |        |
| 5   | 201.0402        | 42.24          | -13.88        | 28.36          | 43.50          | -15.14      | QP   |             |               |        |
| 6   | 252.5051        | 38.54          | -11.44        | 27.10          | 46.00          | -18.90      | QP   |             |               |        |

## 5.6 Radiated Measurement Photos



## 6 20db Bandwidth

### 6.1 20dB Bandwidth Limit

None: for reporting purposed only.

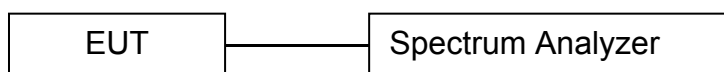
### 6.2 Test Instruments

Refer a test equipment and calibration data table in this test report.

### 6.3 Test Procedure

The bandwidth of the fundamental frequency was measured by spectrum analyzer with 30Hz RBW and 100Hz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

### 6.4 Test Setup



### 6.5 Test Result

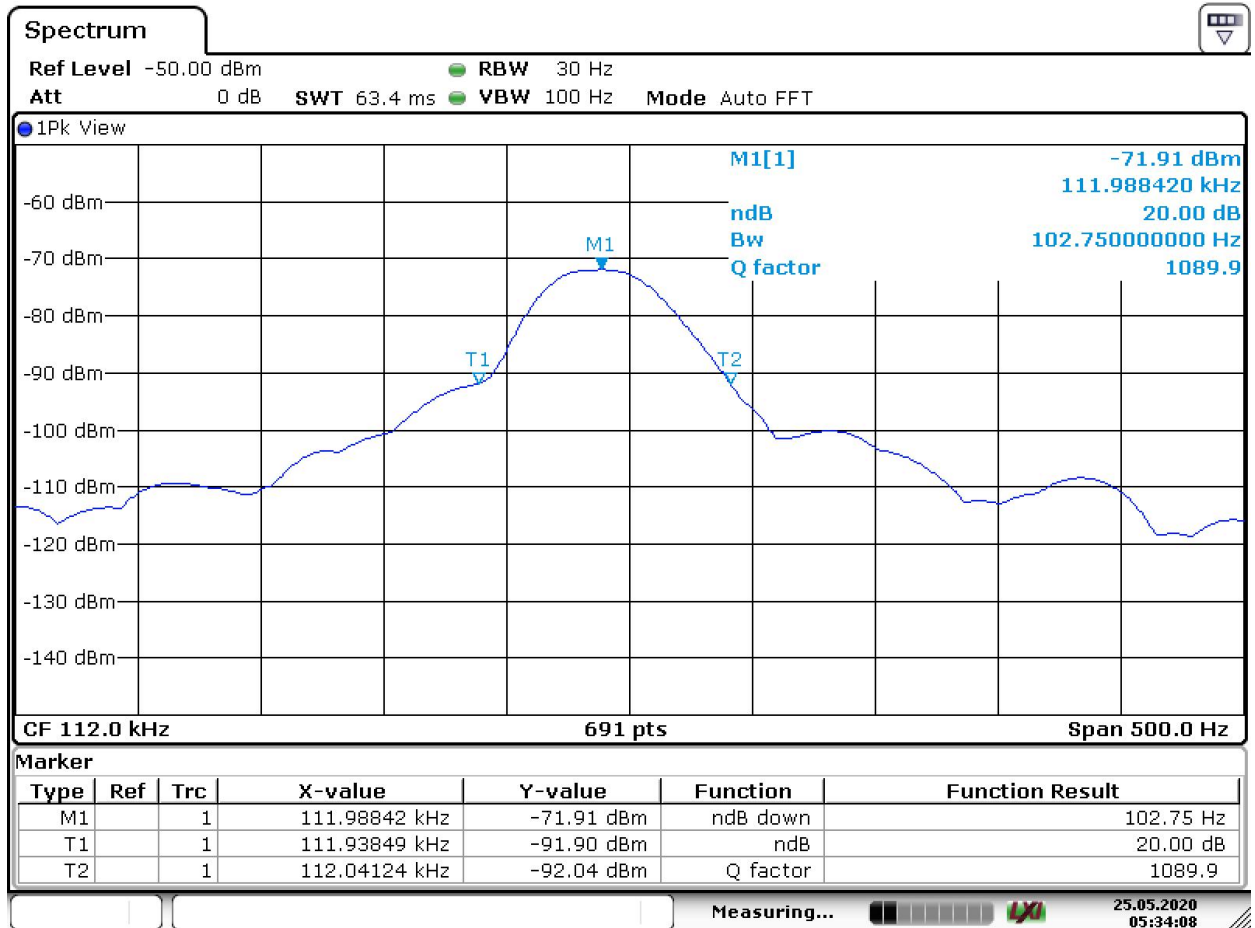
| Frequency<br>(KHz) | 20dB Bandwidth<br>(Hz) | Results |
|--------------------|------------------------|---------|
| 112                | 102.75                 | PASS    |



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## 20 dB Bandwidth Test plot



Date: 25.MAY.2020 05:34:07

## **7 Antenna Application**

### **7.1 Antenna requirement**

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.

### **7.2 Result**

The EUT's antenna, permanent attached antenna, used an Induction coil and integrated on PCB, The antenna's gain meets the requirement.



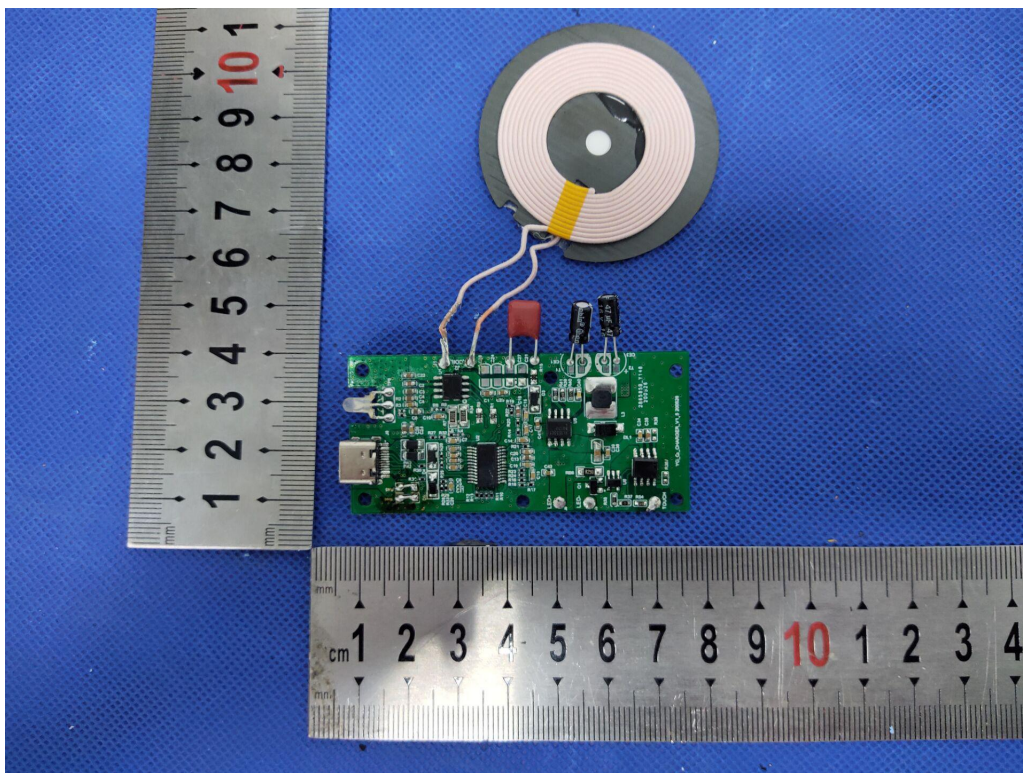
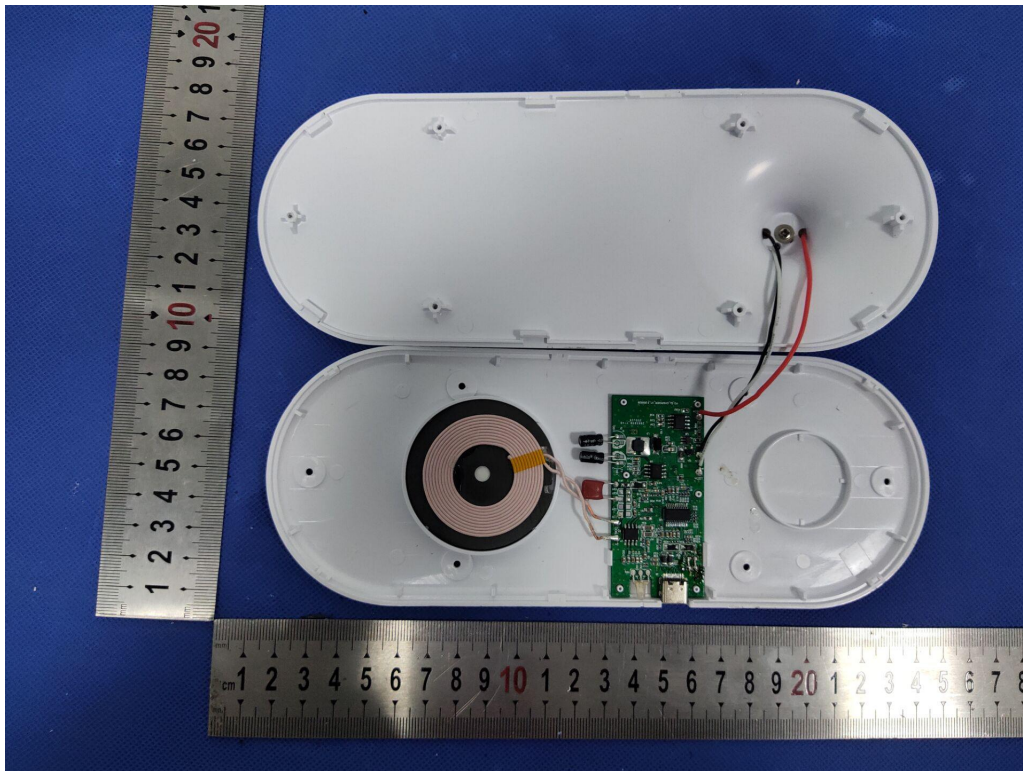
## APPENDIX (Photos of EUT)



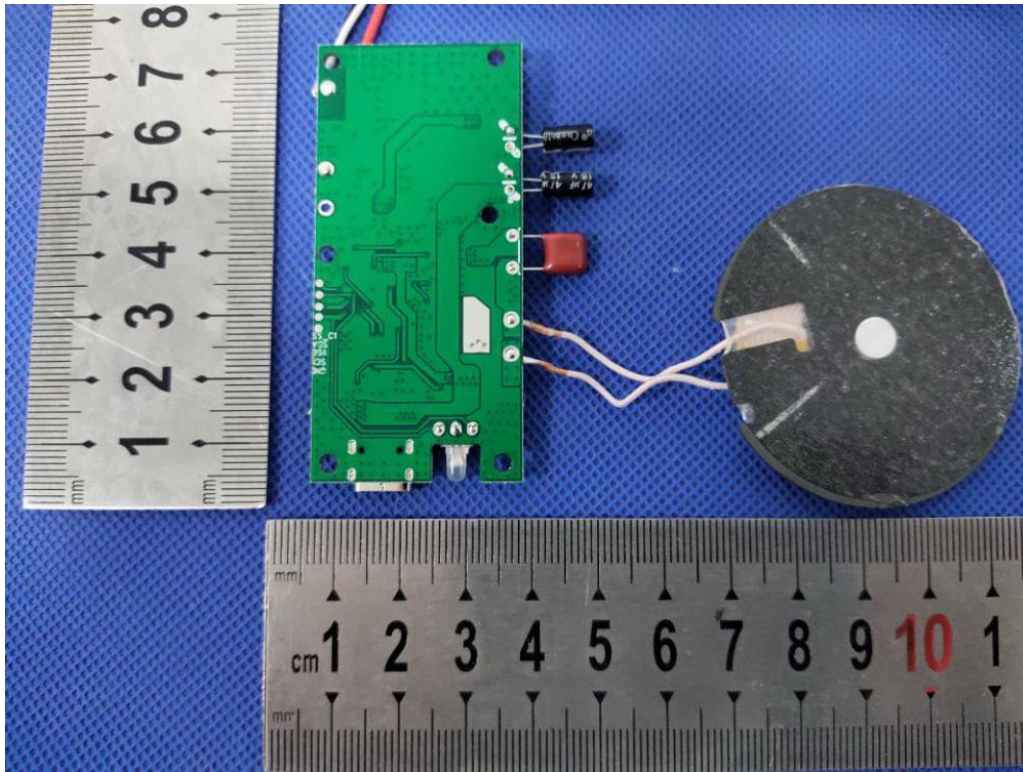












-----The end of report-----