



# FCC TEST REPORT

**Test report  
On Behalf of  
Shenzhen Semetor Electronics Co., LTD  
For  
Multifunctional wireless speaker lamp  
Model No.: S-29  
FCC ID: 2AYRHS29**

**Prepared For :** Shenzhen Semetor Electronics Co., LTD  
B3, 3th floor, guanglong building, No.162, pingxin north road, hehua community,  
pinghu street, longgang district, shenzhen city, guangdong, China

**Prepared By :** Shenzhen HUAKE Testing Technology Co., Ltd.  
1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,  
Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

**Date of Test:** Jun. 27, 2022 ~ Jul. 06, 2022

**Date of Report:** Jul. 06, 2022

**Report Number:** HK2206272765-2E



## TEST RESULT CERTIFICATION

**Applicant's name** ..... : Shenzhen Semetor Electronics Co., LTD

**Address**..... : B3, 3th floor, guanglong building, No.162, pingxin north road,  
hehua community, pinghu street, longgang district, shenzhen city,  
guangdong, China

**Manufacture's Name**..... : Dongguan Zeanew Technology Co., Ltd.

**Address**..... : Room 801, building 2, No.38, Six lanes Weixing Rd, Yantian,  
Fenggang town, Dongguan, China

**Product description**

**Trade Mark:** N/A

**Product name**..... : Multifunctional wireless speaker lamp

**Model and/or type reference** : S-29

**Standards** ..... : FCC Rules and Regulations Part 15 Subpart C (Section 15.209),  
ANSI C63.10: 2013

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**Date of Test** ..... :

**Date (s) of performance of tests** ..... : Jun. 27, 2022 ~ Jul. 06, 2022

**Date of Issue**..... : Jul. 06, 2022

**Test Result**..... : Pass

**Testing Engineer** :

(Gary Qian)

**Technical Manager** :

(Eden Hu)

**Authorized Signatory** :

(Jason Zhou)

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**\*\* Modified History \*\***

| Revision     | Description                 | Issued Data   | Remark     |
|--------------|-----------------------------|---------------|------------|
| Revision 1.0 | Initial Test Report Release | Jul. 06, 2022 | Jason Zhou |
|              |                             |               |            |
|              |                             |               |            |



## 1. TEST SUMMARY

### 1.1. Test Procedures And Results

| DESCRIPTION OF TEST      | SECTION NUMBER | RESULT    |
|--------------------------|----------------|-----------|
| CONDUCTED EMISSIONS TEST | 15.207         | COMPLIANT |
| RADIATED EMISSION TEST   | 15.209         | COMPLIANT |
| ANTENNA REQUIREMENT      | 15.203         | COMPLIANT |

#### Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

### 1.2. Information of the Test Laboratory

Shenzhen HUAKE Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization :

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

### 1.3. Measurement Uncertainty

Measurement Uncertainty

|                                                       |               |
|-------------------------------------------------------|---------------|
| Conducted Emission Expanded Uncertainty               | = 2.71dB, k=2 |
| Radiated emission expanded uncertainty(9kHz-30MHz)    | = 3.90dB, k=2 |
| Radiated emission expanded uncertainty(30MHz-1000MHz) | = 3.90dB, k=2 |
| Radiated emission expanded uncertainty(Above 1GHz)    | = 4.28dB, k=2 |



## 2. GENERAL INFORMATION

### 2.1. General Description of EUT

|                      |                                                               |
|----------------------|---------------------------------------------------------------|
| Equipment:           | Multifunctional wireless speaker lamp                         |
| Model Name:          | S-29                                                          |
| Series Models:       | N/A                                                           |
| Model Difference:    | N/A                                                           |
| Trade Mark:          | N/A                                                           |
| FCC ID:              | 2AYRHS29                                                      |
| Antenna Type:        | Coil Antenna                                                  |
| Antenna Gain:        | 0dBi                                                          |
| Operation frequency: | 111.5KHz~205KHz                                               |
| Test frequency:      | 126KHz                                                        |
| Number of Channels:  | 1                                                             |
| Modulation Type:     | ASK                                                           |
| Power Source:        | Input: DC 5V, 2.1A/9V, 2A<br>Wireless Output: 5W/7.5W/10W/15W |
| Power Rating:        | Input: DC 5V, 2.1A/9V, 2A<br>Wireless Output: 5W/7.5W/10W/15W |



## 2.2. Carrier Frequency of Channels

| Operation Frequency each of channel |           |
|-------------------------------------|-----------|
| Channel                             | Frequency |
| 1                                   | 126KHz    |

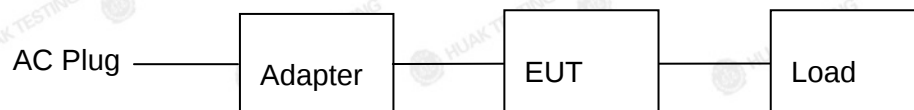
## 2.3. Operation of EUT during testing

Operating Mode

The mode is used: Transmitting mode

## 2.4. Description of Test Setup

Operation of EUT during testing:



Adapter information

Model: HW-100225C00

Input: 100-240V, 50-60Hz, 0.75A

Output: 5V, 2A/9V, 2A/10V, 2.25A MAX

The sample was placed (0.8m (30MHz~1GHz), 0.8m (9KHz~30MHz) ) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.

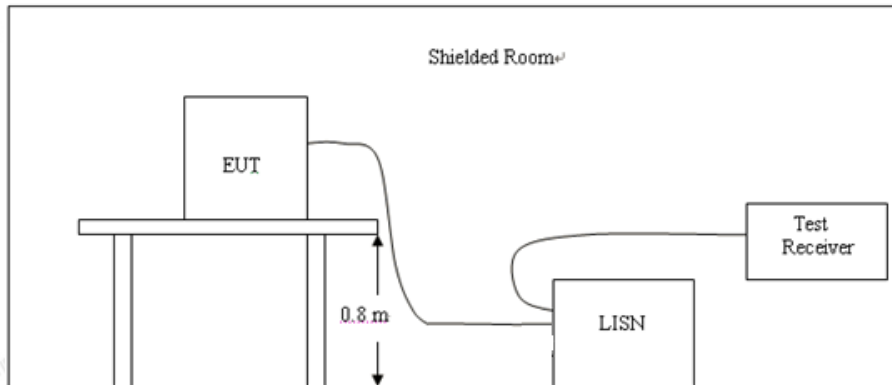
**2.5. Measurement Instruments List**

| Item | Equipment                               | Manufacturer    | Model No.           | Serial No. | Last Cal.     | Cal. Interval |
|------|-----------------------------------------|-----------------|---------------------|------------|---------------|---------------|
| 1.   | L.I.S.N.<br>Artificial Mains<br>Network | R&S             | ENV216              | HKE-002    | Feb. 18, 2022 | 1 Year        |
| 2.   | Receiver                                | R&S             | ESCI 7              | HKE-010    | Feb. 18, 2022 | 1 Year        |
| 3.   | RF automatic<br>control unit            | Tonscend        | JS0806-2            | HKE-060    | Feb. 18, 2022 | 1 Year        |
| 4.   | Spectrum analyzer                       | R&S             | FSP40               | HKE-025    | Feb. 18, 2022 | 1 Year        |
| 5.   | Spectrum analyzer                       | Agilent         | N9020A              | HKE-048    | Feb. 18, 2022 | 1 Year        |
| 6.   | Preamplifier                            | Schwarzbeck     | BBV 9743            | HKE-006    | Feb. 18, 2022 | 1 Year        |
| 7.   | EMI Test Receiver                       | Rohde & Schwarz | ESCI 7              | HKE-010    | Feb. 18, 2022 | 1 Year        |
| 8.   | Bilog Broadband<br>Antenna              | Schwarzbeck     | VULB9163            | HKE-012    | Feb. 18, 2022 | 1 Year        |
| 9.   | Loop Antenna                            | Schwarzbeck     | FMZB 1519<br>B      | HKE-014    | Feb. 18, 2022 | 1 Year        |
| 10.  | Horn Antenna                            | Schwarzbeck     | 9120D               | HKE-013    | Feb. 18, 2022 | 1 Year        |
| 11.  | Pre-amplifier                           | EMCI            | EMC051845<br>SE     | HKE-015    | Feb. 18, 2022 | 1 Year        |
| 12.  | Pre-amplifier                           | Agilent         | 83051A              | HKE-016    | Feb. 18, 2022 | 1 Year        |
| 13.  | EMI Test Software<br>EZ-EMC             | Tonscend        | JS1120-B<br>Version | HKE-083    | N/A           | N/A           |
| 14.  | Power Sensor                            | Agilent         | E9300A              | HKE-086    | Feb. 18, 2022 | 1 Year        |
| 15.  | Spectrum analyzer                       | Agilent         | N9020A              | HKE-048    | Feb. 18, 2022 | 1 Year        |
| 16.  | Signal generator                        | Agilent         | N5182A              | HKE-029    | Feb. 18, 2022 | 1 Year        |
| 17.  | Signal Generator                        | Agilent         | 83630A              | HKE-028    | Feb. 18, 2022 | 1 Year        |
| 18.  | Shielded room                           | Shiel Hong      | 4*3*3               | HKE-039    | Dec. 09, 2021 | 3 Year        |



### 3. CONDUCTED EMISSION TEST

#### 3.1. Block Diagram of Test Setup



#### 3.2. Conducted Power Line Emission Limit

According to FCC Part 15.207(a)

| Frequency (MHz) | Maximum RF Line Voltage (dBμV) |      |         |        |
|-----------------|--------------------------------|------|---------|--------|
|                 | CLASS A                        |      | CLASS B |        |
|                 | Q.P.                           | Ave. | Q.P.    | Ave.   |
| 0.15 - 0.50     | 79                             | 66   | 66-56*  | 56-46* |
| 0.50 - 5.00     | 73                             | 60   | 56      | 46     |
| 5.00 - 30.0     | 73                             | 60   | 60      | 50     |

\* Decreasing linearly with the logarithm of the frequency

For intentional device, according to §15.207 Line Conducted Emission Limit is same as above table.

#### 3.3. Test Procedure

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

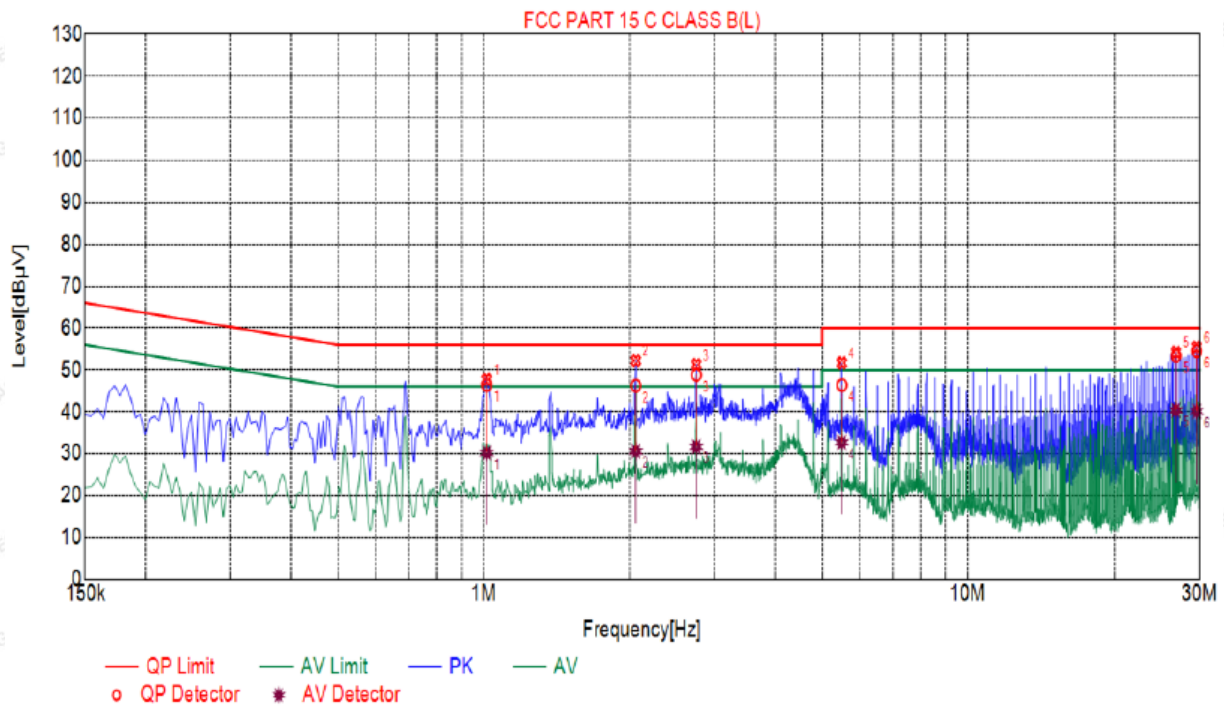


## 3.4. Test Result

PASS

All the test modes completed for test. only the worst result was reported as below:

Test Specification: Line



## Suspected List

| NO. | Freq.<br>[MHz] | Level<br>[dBμV] | Factor<br>[dB] | Limit<br>[dBμV] | Margin<br>[dB] | Reading<br>[dBμV] | Detector | Type |
|-----|----------------|-----------------|----------------|-----------------|----------------|-------------------|----------|------|
| 1   | 1.0140         | 47.76           | 20.06          | 56.00           | 8.24           | 30.66             | PK       | L    |
| 2   | 2.0625         | 52.22           | 20.15          | 56.00           | 3.78           | 32.07             | PK       | L    |
| 3   | 2.7510         | 51.29           | 20.21          | 56.00           | 4.71           | 31.08             | PK       | L    |
| 4   | 5.5005         | 51.70           | 20.26          | 60.00           | 8.30           | 31.44             | PK       | L    |
| 5   | 26.7990        | 54.23           | 20.26          | 60.00           | 5.77           | 33.97             | PK       | L    |
| 6   | 29.5530        | 55.51           | 20.26          | 60.00           | 4.49           | 35.25             | PK       | L    |

## Final Data List

| NO. | Freq.<br>[MHz] | Correction<br>factor[dB] | QP<br>Value<br>[dBμV] | QP<br>Limit<br>[dBμV] | QP<br>Margin<br>[dB] | QP<br>Reading<br>[dBμV] | AV<br>Value<br>[dBμV] | AV<br>Limit<br>[dBμV] | AV<br>Margin<br>[dB] | AV<br>Reading<br>[dBμV] | Type |
|-----|----------------|--------------------------|-----------------------|-----------------------|----------------------|-------------------------|-----------------------|-----------------------|----------------------|-------------------------|------|
| 1   | 1.0140         | 20.06                    | 46.39                 | 56.00                 | 9.61                 | 26.33                   | 30.18                 | 46.00                 | 15.82                | 10.12                   | L    |
| 2   | 2.0625         | 20.15                    | 46.27                 | 56.00                 | 9.73                 | 26.12                   | 30.59                 | 46.00                 | 15.41                | 10.44                   | L    |
| 3   | 2.7510         | 20.21                    | 48.85                 | 56.00                 | 7.15                 | 28.64                   | 31.66                 | 46.00                 | 14.34                | 11.45                   | L    |
| 4   | 5.5005         | 20.26                    | 46.39                 | 60.00                 | 13.61                | 26.13                   | 32.71                 | 50.00                 | 17.29                | 12.45                   | L    |
| 5   | 26.7990        | 20.26                    | 53.38                 | 60.00                 | 6.62                 | 33.12                   | 40.39                 | 50.00                 | 9.61                 | 20.13                   | L    |
| 6   | 29.5530        | 20.26                    | 54.51                 | 60.00                 | 5.49                 | 34.25                   | 40.15                 | 50.00                 | 9.85                 | 19.89                   | L    |

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

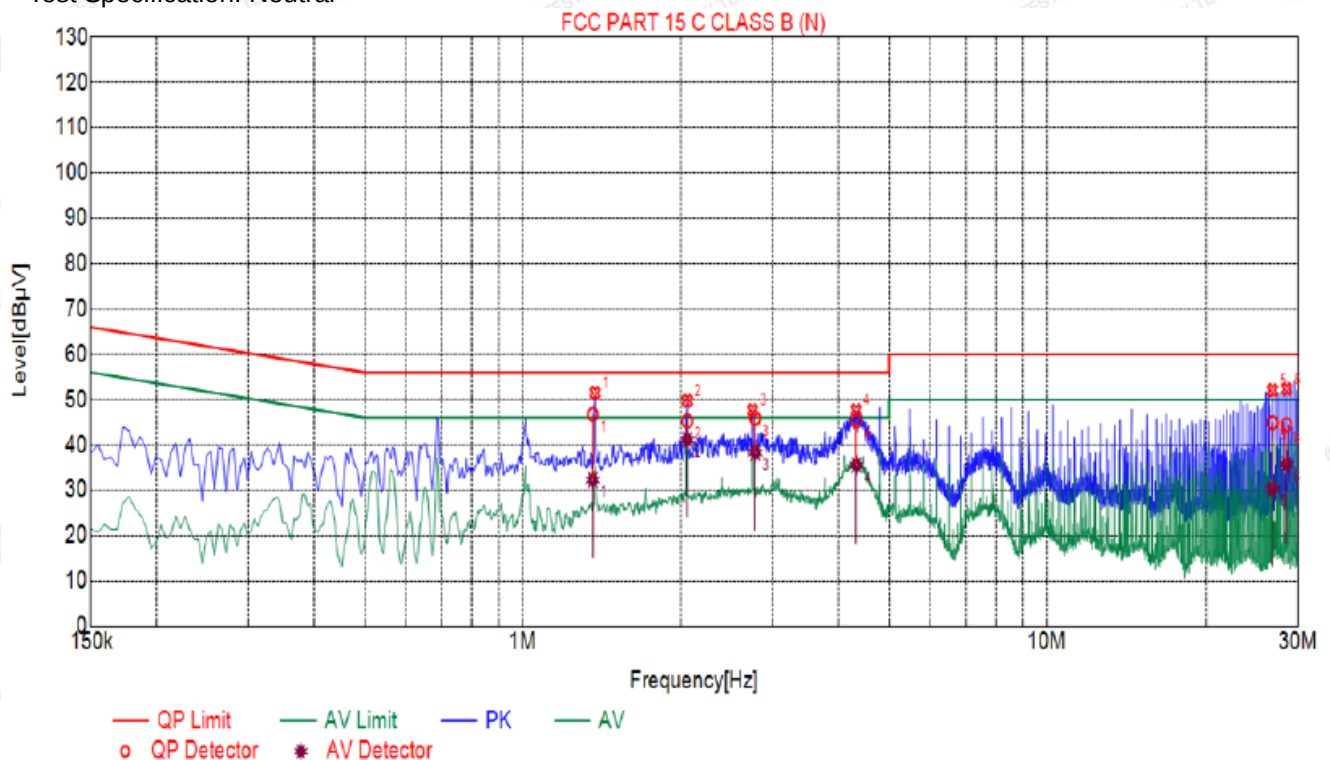
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Test Specification: Neutral



## Suspected List

| NO. | Freq. [MHz] | Level [dBμV] | Factor [dB] | Limit [dBμV] | Margin [dB] | Reading [dBμV] | Detector | Type |
|-----|-------------|--------------|-------------|--------------|-------------|----------------|----------|------|
| 1   | 1.3740      | 51.50        | 20.11       | 56.00        | 4.50        | 31.39          | PK       | N    |
| 2   | 2.0625      | 49.77        | 20.15       | 56.00        | 6.23        | 29.62          | PK       | N    |
| 3   | 2.7465      | 47.65        | 20.21       | 56.00        | 8.35        | 27.44          | PK       | N    |
| 4   | 4.3260      | 47.68        | 20.25       | 56.00        | 8.32        | 27.43          | PK       | N    |
| 5   | 26.7945     | 52.07        | 20.26       | 60.00        | 7.93        | 31.81          | PK       | N    |
| 6   | 28.5135     | 52.34        | 20.26       | 60.00        | 7.66        | 32.08          | PK       | N    |

## Final Data List

| NO. | Freq. [MHz] | Correction factor [dB] | QP Value [dBμV] | QP Limit [dBμV] | QP Margin [dB] | QP Reading [dBμV] | AV Value [dBμV] | AV Limit [dBμV] | AV Margin [dB] | AV Reading [dBμV] | Type |
|-----|-------------|------------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|-------------------|------|
| 1   | 1.3600      | 20.10                  | 46.74           | 56.00           | 9.26           | 26.64             | 32.26           | 46.00           | 13.74          | 12.16             | N    |
| 2   | 2.0624      | 20.15                  | 45.25           | 56.00           | 10.75          | 25.10             | 41.13           | 46.00           | 4.87           | 20.98             | N    |
| 3   | 2.7773      | 20.21                  | 45.89           | 56.00           | 10.11          | 25.68             | 38.28           | 46.00           | 7.72           | 18.07             | N    |
| 4   | 4.3312      | 20.25                  | 45.26           | 56.00           | 10.74          | 25.01             | 35.56           | 46.00           | 10.44          | 15.31             | N    |
| 5   | 26.8136     | 20.26                  | 44.93           | 60.00           | 15.07          | 24.67             | 30.24           | 50.00           | 19.76          | 9.98              | N    |
| 6   | 28.4697     | 20.26                  | 44.44           | 60.00           | 15.56          | 24.18             | 35.70           | 50.00           | 14.30          | 15.44             | N    |

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level = Test receiver reading + correction factor

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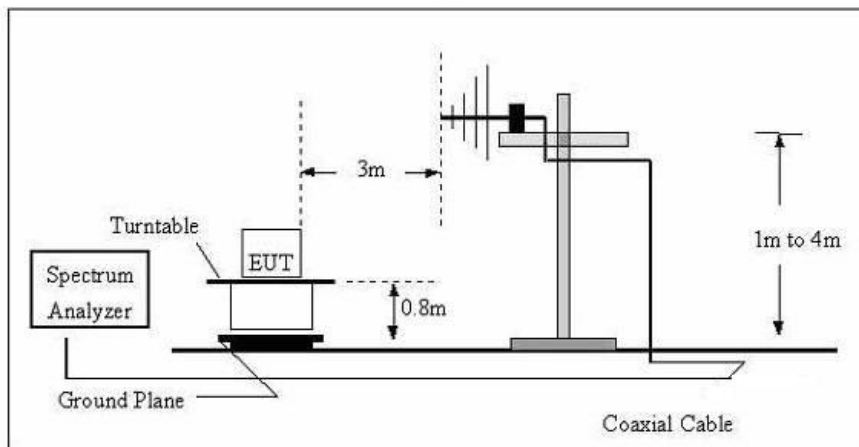
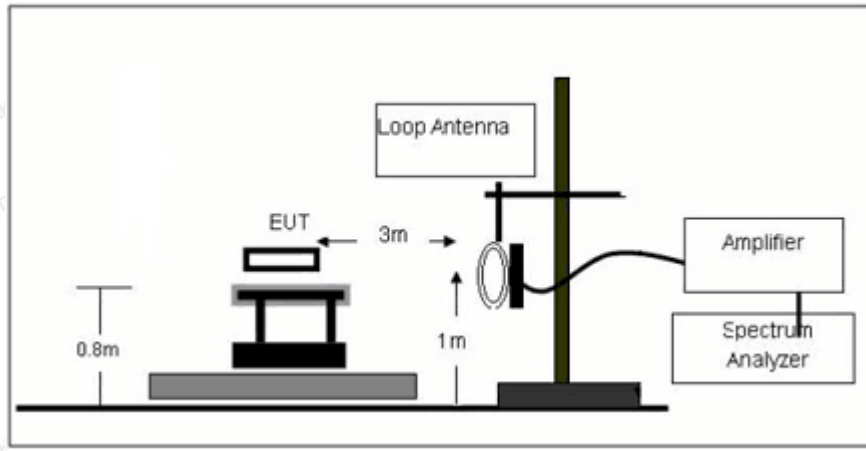
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## 4. RADIATED EMISSIONS

### 4.1. Block Diagram of Test Setup





#### 4.2. Rules and specifications

CFR 47 Part 15, section 15.205

Only spurious emissions are permitted in any of the frequency bands listed the tables in these sections.

| MHz               | MHz                 | MHz           | GHz         |
|-------------------|---------------------|---------------|-------------|
| 0.090-0.110       | 16.42-16.423        | 399.9-410     | 4.5-5.15    |
| 1\ 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     | (2\)        |
| 13.36-13.41       |                     |               |             |

CFR 47 Part 15, section 15.209

The emissions from an intentional radiator shall not exceed the limits in the tables in these sections using an average detector.

| Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 0.009-0.490     | 2400/F (kHz)                      | 300                           |
| 0.490-1.705     | 24000/F (kHz)                     | 30                            |
| 1.705-30.0      | 30                                | 30                            |
| 30-88           | 100**                             | 3                             |
| 88-216          | 150**                             | 3                             |
| 216-960         | 200**                             | 3                             |
| Above 960       | 500                               | 3                             |

Limit calculation and transfer to 3m distance as showed in the following table:

| Frequency (MHz) | Limit (dBuV/m)                      | Distance (m) |
|-----------------|-------------------------------------|--------------|
| 0.009-0.490     | $20\log(2400/F(KHz))+40\log(300/3)$ | 3            |
| 0.490-1.705     | $20\log(24000/F(KHz))+40\log(30/3)$ | 3            |
| 1.705-30.0      | 69.5                                | 3            |
| 30-88           | 40.0                                | 3            |
| 88-216          | 43.5                                | 3            |
| 216-960         | 46.0                                | 3            |
| Above 960       | 54.0                                | 3            |

CFR 47 Part 15, section 15.35

When average radiated emission measurements are specified, the limit on the peak level of the radio Frequency emission is 20dB above the maximum permitted average emission limit.

| Transmitter Spurious Emissions 9KHz-30MHz |          |            |              |
|-------------------------------------------|----------|------------|--------------|
|                                           | 9-150KHz | 150-490KHz | 490KHz-30MHz |
| Resolution Bandwidth                      | 200Hz    | 9KHz       | 9KHz         |
| Video Bandwidth                           | 600Hz    | 30KHz      | 30KHz        |
| Detector                                  | Peak     | Peak       | Peak         |
| Trace Mode                                | Max Hold | Max Hold   | Max Hold     |
| Sweep Time                                | Auto     | Auto       | Auto         |



#### 4.3. Test Procedure

Measurement distance 3m

For the measurement range up to 30MHz in the following plots the field strength result from 3m Distance measurement are extrapolated to 300m and 30m distance respectively, by 40dB/decade, According to part 15.31(f)(2), per antenna factor scaling.

Measurements below 1000MHz are performed with a peak detector and compared to average limits, Measurements with an average detector are not required.

Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.

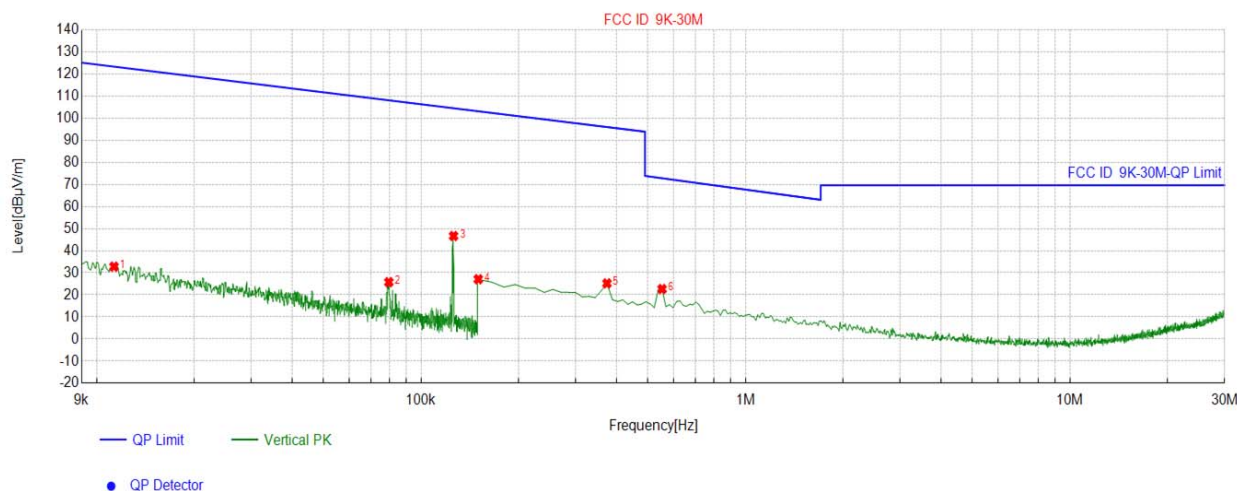
#### 4.4. Test Result

**PASS**

Note: this EUT was tested for all models and the worst case model (15W) data was reported.



For 9KHz - 30MHz

**Suspected List**

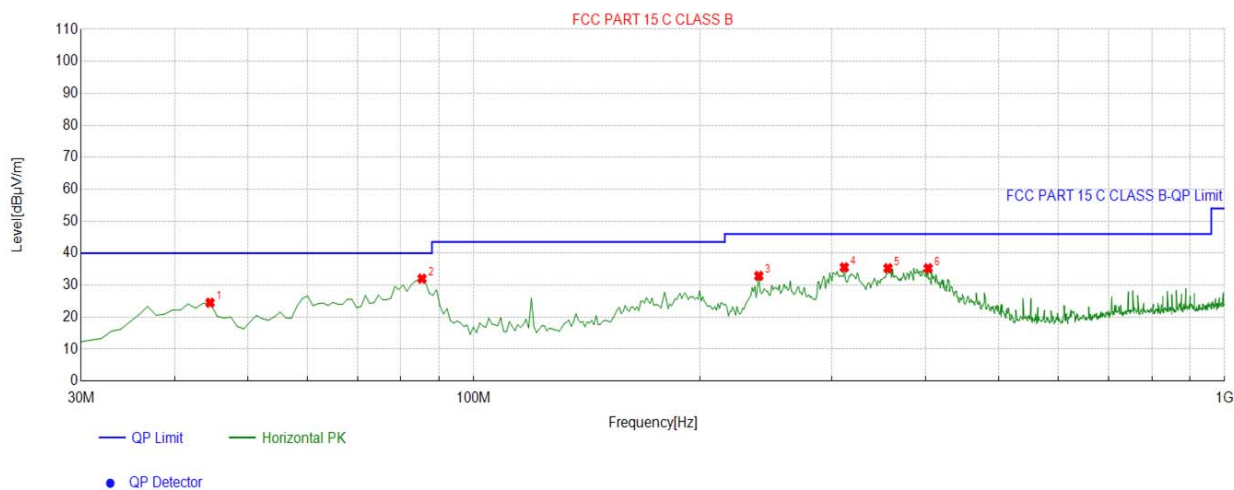
| NO. | Freq. [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----|-------------|-------------|------------------|----------------|----------------|-------------|
| 1   | 0.0113      | -14.71      | 47.48            | 32.77          | 123.20         | 90.43       |
| 2   | 0.0795      | -17.09      | 42.83            | 25.74          | 107.99         | 82.25       |
| 3   | 0.1259      | -17.23      | 63.86            | 46.63          | 104.40         | 57.77       |
| 4   | 0.1500      | -17.27      | 44.37            | 27.10          | 103.04         | 75.94       |
| 5   | 0.3740      | -17.20      | 42.41            | 25.21          | 95.91          | 70.70       |
| 6   | 0.5532      | -17.19      | 39.84            | 22.65          | 72.75          | 50.10       |

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor; Margin = Limit – Level



For 30MHz-1GHz

Antenna polarity: H



| Suspected List |             |             |                  |                |                |             |             |           |            |
|----------------|-------------|-------------|------------------|----------------|----------------|-------------|-------------|-----------|------------|
| NO.            | Freq. [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity   |
| 1              | 44.5646     | -14.94      | 39.44            | 24.50          | 40.00          | 15.50       | 100         | 88        | Horizontal |
| 2              | 85.3453     | -17.75      | 49.77            | 32.02          | 40.00          | 7.98        | 100         | 5         | Horizontal |
| 3              | 239.7297    | -13.00      | 45.87            | 32.87          | 46.00          | 13.13       | 100         | 112       | Horizontal |
| 4              | 311.5816    | -11.53      | 47.09            | 35.56          | 46.00          | 10.44       | 100         | 1         | Horizontal |
| 5              | 356.2462    | -10.79      | 46.09            | 35.30          | 46.00          | 10.70       | 100         | 247       | Horizontal |
| 6              | 402.8529    | -9.11       | 44.38            | 35.27          | 46.00          | 10.73       | 100         | 247       | Horizontal |

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor;  
Margin = Limit – Level



Antenna polarity: V



## Suspected List

| NO. | Freq. [MHz] | Factor [dB] | Reading [dBμV/m] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|-------------|------------------|----------------|----------------|-------------|-------------|-----------|----------|
| 1   | 43.5936     | -14.98      | 55.47            | 40.49          | 40.00          | -0.49       | 100         | 141       | Vertical |
| 2   | 76.6066     | -16.93      | 58.58            | 41.65          | 40.00          | -1.65       | 100         | 320       | Vertical |
| 3   | 84.3744     | -17.68      | 60.16            | 42.48          | 40.00          | -2.48       | 100         | 320       | Vertical |
| 4   | 189.2392    | -16.72      | 48.21            | 31.49          | 43.50          | 12.01       | 100         | 200       | Vertical |
| 5   | 238.7588    | -13.03      | 44.33            | 31.30          | 46.00          | 14.70       | 100         | 161       | Vertical |
| 6   | 431.9820    | -7.93       | 42.92            | 34.99          | 46.00          | 11.01       | 100         | 149       | Vertical |

## Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Reading [dBμV/m] | QP Value [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|-------------|---------------------|-------------------|-------------------|----------------|-------------|-----------|----------|
| 1   | 76.0057     | -16.93      | 52.48               | 35.55             | 40.00             | 4.45           | 150         | 98        | Vertical |
| 2   | 85.2121     | -17.69      | 55.34               | 37.65             | 40.00             | 2.35           | 110         | 58.9      | Vertical |
| 3   | 43.8901     | -14.98      | 52.53               | 37.55             | 40.00             | 2.45           | 200         | 296.3     | Vertical |

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor;  
Margin = Limit – Level



## 5. ANTENNA REQUIREMENT

### Standard Applicable

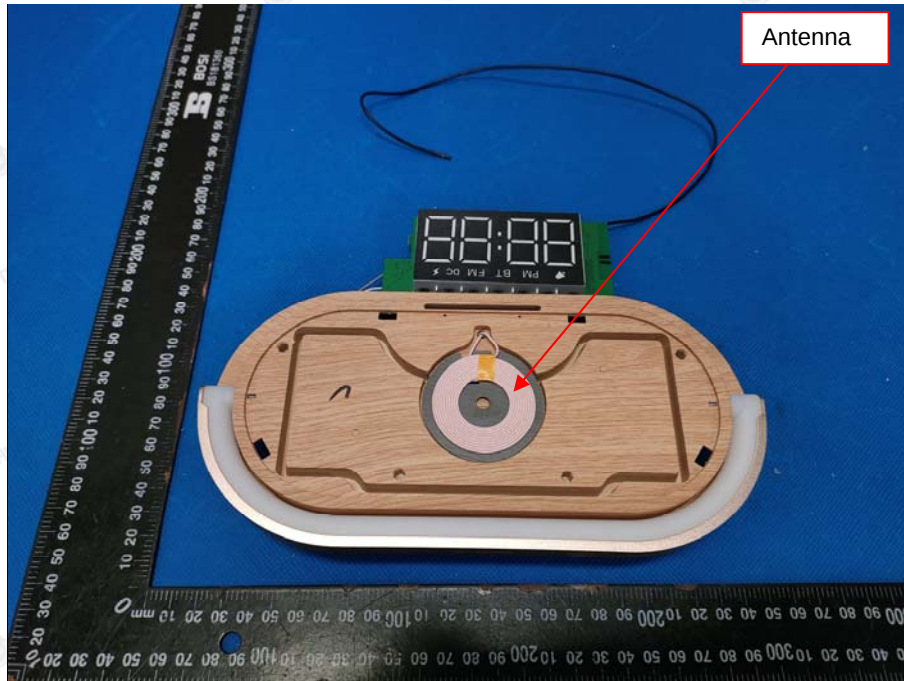
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

### Antenna Connected Construction

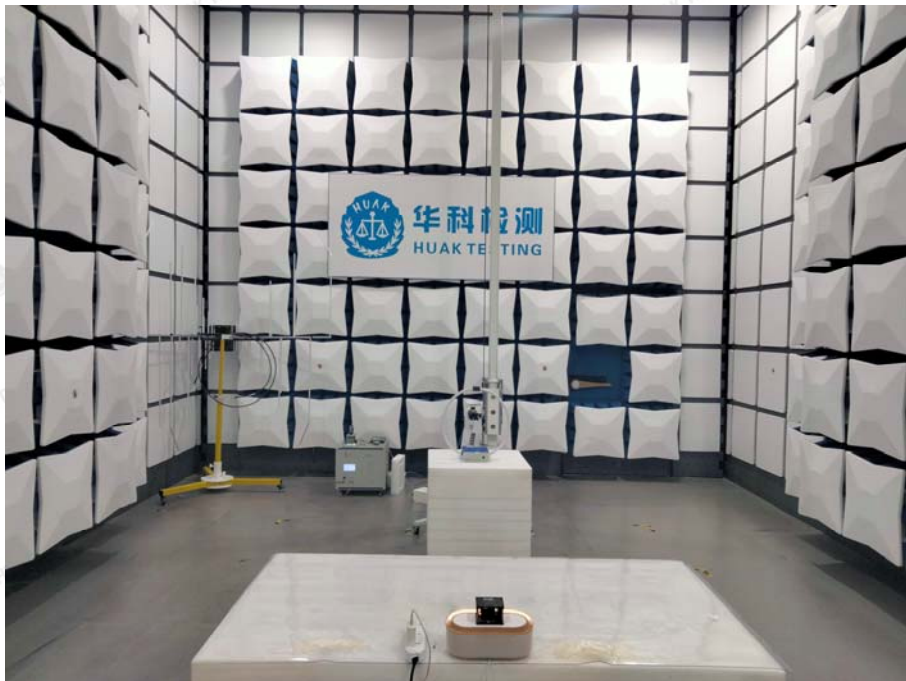
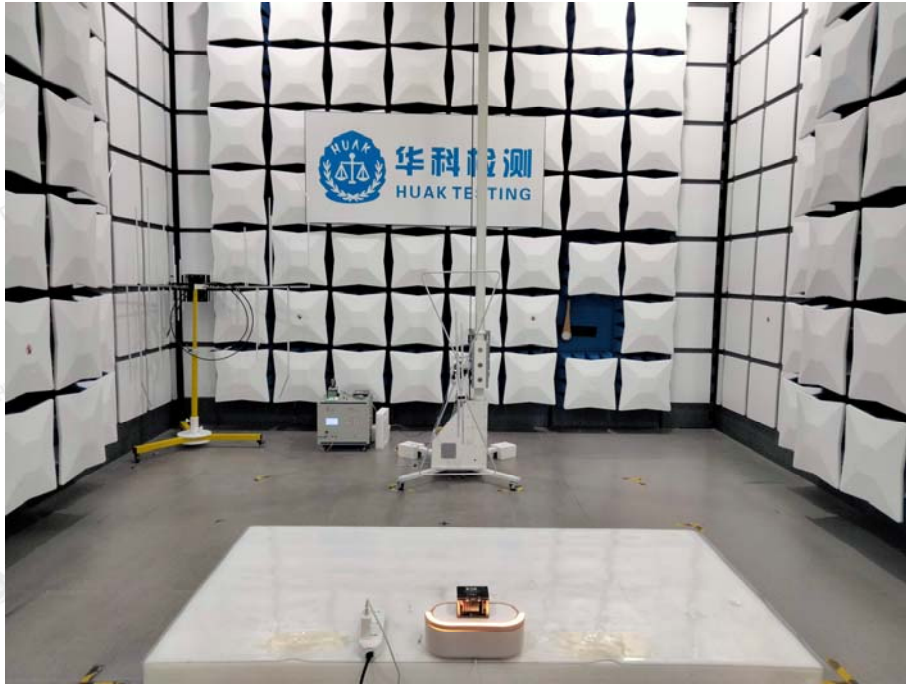
The antenna used in this product is a Coil Antenna, which permanently attached. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 0dBi.





## 6. PHOTOGRAPH OF TEST

### Radiated Emission



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Conducted Emissions



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## 7. PHOTOS OF THE EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

-----End of test report-----