



FCC TEST REPORT

**Test report
On Behalf of
Shenzhen Wewo Tech co.,Ltd.
For
Wireless Charger X8
Model No.: WI02, WI06, WI08, WI10, WI12, WI16, WI18, WI20,
WI22
FCC ID: 2AYH6-WI02**

Prepared for : Shenzhen Wewo Tech co.,Ltd.
201, 6095-2 Baoan Avenue, Qiaotou Community, Fuhai Street, Baoan District,
Shenzhen, China

Prepared By : Shenzhen HUAK Testing Technology Co., Ltd.
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Bao'an District, Shenzhen City, China

Date of Test: Dec. 23, 2020 ~Jan. 12, 2021

Date of Report: Jan. 12, 2021

Report Number: HK2012233931-1E



TEST RESULT CERTIFICATION

Applicant's name : Shenzhen Wewo Tech co.,Ltd.

Address : 201, 6095-2 Baoan Avenue, Qiaotou Community, Fuhai Street, Baoan District, Shenzhen, China

Manufacture's Name : Shenzhen Wewo Tech co.,Ltd.

Address : 201, 6095-2 Baoan Avenue, Qiaotou Community, Fuhai Street, Baoan District, Shenzhen, China

Product description

Trade Mark:



Product name : Wireless Charger X8

Model and/or type reference : WI02, WI06, WI08, WI10, WI12, WI16, WI18, WI20, WI22

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 : Dec. 23, 2020 ~Jan. 12, 2021

Date of Issue : Jan. 12, 2021

Test Result : **Pass**

Testing Engineer :

Gary Qian

(Gary Qian)

Technical Manager :

Eden Hu

(Eden Hu)

Authorized Signatory :

Jason Zhou

(Jason Zhou)

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**** Modified History ****

| Revision | Description | Issued Date | Remark |
|--------------|-----------------------------|---------------|------------|
| Revision 1.0 | Initial Test Report Release | Jan. 12, 2021 | 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 |
| OCCUPIED BANDWIDTH | 15.215 | COMPLIANT |
| MEASUREMENT | | |
| 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. Test Facility

Test Firm : Shenzhen HUAK Testing Technology Co., Ltd.

Address 1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai Street, Bao'an District, Shenzhen City, China

1.3. Measurement Uncertainty

Measurement Uncertainty

| | |
|---|---------------|
| Conducted Emission Expanded Uncertainty | = 2.71dB, k=2 |
| Radiated emission expanded uncertainty(9kHz-30MHz) | = 4.26dB, 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 | Wireless Charger X8 |
| Model Name | WI02 |
| Serial No. | WI06, WI08, WI10, WI12, WI16, WI18, WI20, WI22 |
| Model Difference | All model's the function, software and electric circuit are the same, only with a product model named and trade mark different. Test sample model: WI02. |
| Trade Mark |  Cirtek® , Cirtek® |
| FCC ID | 2AYH6-WI02 |
| Antenna Type | Coil Antenna |
| Antenna Gain | 0dBi |
| Operation frequency | 125KHz |
| Number of Channels | 1 |
| Modulation Type | ASK |
| Power Source | Input: 5V/2A, 9V/2A, 12V/2A Output: 5V/1A, 9V/1.12A, 9V/1.67A |
| Power Rating | Input: 5V/2A, 9V/2A, 12V/2A Output: 5V/1A, 9V/1.12A, 9V/1.67A |

2.2. Carrier Frequency of Channels

| Operation Frequency each of channel | |
|-------------------------------------|-----------|
| Channel | Frequency |
| 1 | 125KHz |

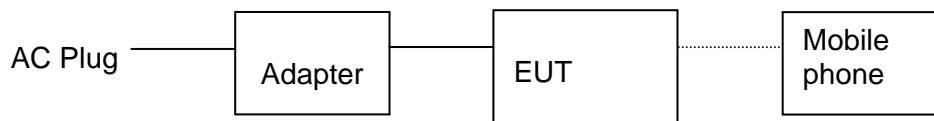
2.3. Operation of EUT during testing

Operating Mode

The mode is used: Transmitting mode

2.4. Description of Test Setup

Operation of EUT during testing:



Adapter information

Model: HW-059200CHQ

Input: 100-240V, 50-60Hz, 0.5A

Output: 5VDC, 2A

Mobile phone information

Model: Samsung S6

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.

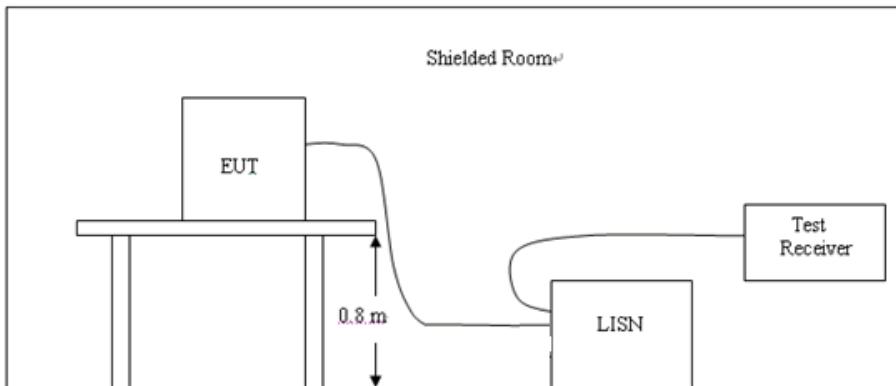


2.5. Measurement Instruments List

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|---|-----------------|---------------------|------------|---------------|---------------|
| 1. | L.I.S.N. Artificial Mains Network | R&S | ENV216 | HKE-002 | Jun. 18, 2020 | 1 Year |
| 2. | Receiver | R&S | ESCI 7 | HKE-010 | Jun. 18, 2020 | 1 Year |
| 3. | RF automatic control unit | Tonscend | JS0806-2 | HKE-060 | Jun. 18, 2020 | 1 Year |
| 4. | Spectrum analyzer | R&S | FSP40 | HKE-025 | Jun. 18, 2020 | 1 Year |
| 5. | Spectrum analyzer | Agilent | N9020A | HKE-048 | Jun. 18, 2020 | 1 Year |
| 6. | Preamplifier | Schwarzbeck | BBV 9743 | HKE-006 | Jun. 18, 2020 | 1 Year |
| 7. | EMI Test Receiver | Rohde & Schwarz | ESCI 7 | HKE-010 | Jun. 18, 2020 | 1 Year |
| 8. | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | HKE-012 | Jun. 18, 2020 | 1 Year |
| 9. | Loop Antenna | Schwarzbeck | FMZB 1519 B | HKE-014 | Jun. 18, 2020 | 1 Year |
| 10. | Horn Antenna | Schwarzbeck | 9120D | HKE-013 | Jun. 18, 2020 | 1 Year |
| 11. | Pre-amplifier | EMCI | EMC051845 SE | HKE-015 | Jun. 18, 2020 | 1 Year |
| 12. | Pre-amplifier | Agilent | 83051A | HKE-016 | Jun. 18, 2020 | 1 Year |
| 13. | EMI Test Software EZ-EMC | Tonscend | JS1120-B Version | HKE-083 | Jun. 18, 2020 | N/A |
| 14. | Power Sensor | Agilent | E9300A | HKE-086 | Jun. 18, 2020 | 1 Year |
| 15. | Spectrum analyzer | Agilent | N9020A | HKE-048 | Jun. 18, 2020 | 1 Year |
| 16. | Signal generator | Agilent | N5182A | HKE-029 | Jun. 18, 2020 | 1 Year |
| 17. | Signal Generator | Agilent | 83630A | HKE-028 | Jun. 18, 2020 | 1 Year |
| 18. | Shielded room | Shiel Hong | 4*3*3 | HKE-039 | Dec. 17, 2020 | 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 (dB μ V) | | | |
|--------------------|--------------------------------------|------|---------|--------|
| | 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

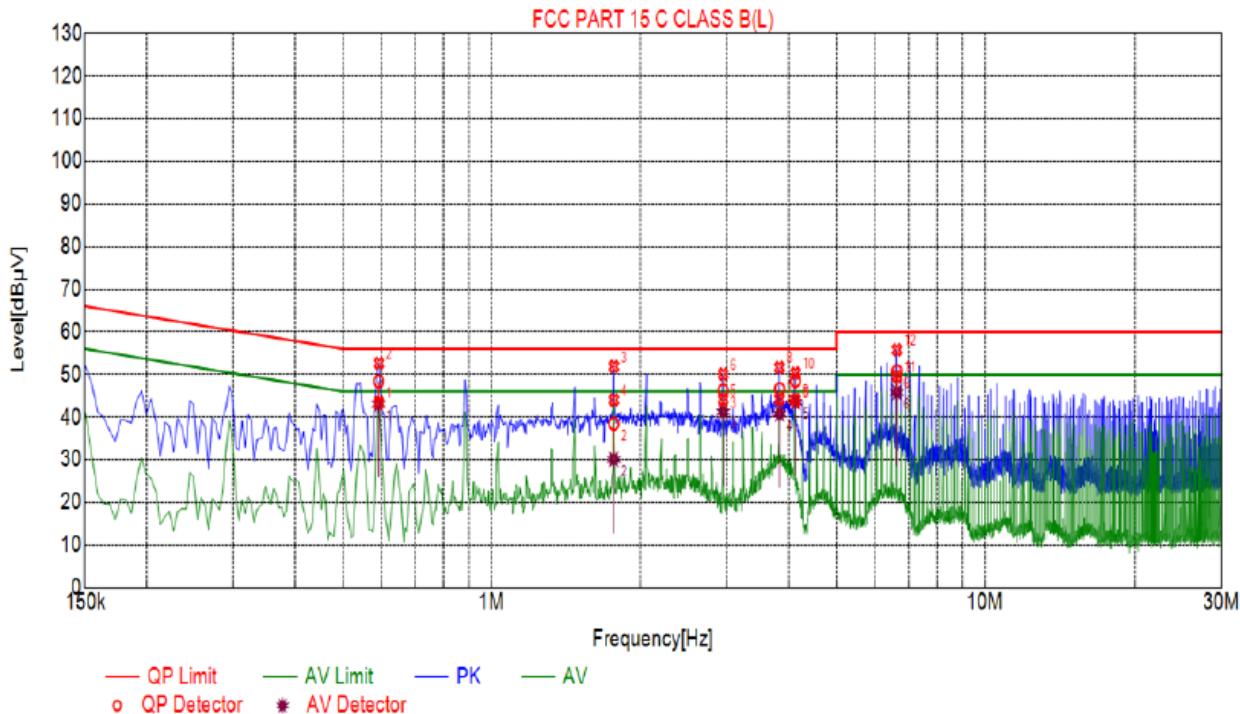
- 1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2, Support equipment, if needed, was placed as per 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. [MHz] | Level [dBμV] | Factor [dB] | Limit [dBμV] | Margin [dB] | Reading [dBμV] | Detector | Type |
| 1 | 0.5910 | 43.39 | 20.05 | 46.00 | 2.61 | 23.34 | AV | L |
| 2 | 0.5910 | 52.64 | 20.05 | 56.00 | 3.36 | 32.59 | PK | L |
| 3 | 1.7700 | 51.88 | 20.14 | 56.00 | 4.12 | 31.74 | PK | L |
| 4 | 1.7700 | 44.03 | 20.14 | 46.00 | 1.97 | 23.89 | AV | L |
| 5 | 2.9490 | 44.14 | 20.21 | 46.00 | 1.86 | 23.93 | AV | L |
| 6 | 2.9490 | 50.07 | 20.21 | 56.00 | 5.93 | 29.86 | PK | L |
| 7 | 3.8310 | 44.20 | 20.25 | 46.00 | 1.80 | 23.95 | AV | L |
| 8 | 3.8310 | 51.64 | 20.25 | 56.00 | 4.36 | 31.39 | PK | L |
| 9 | 4.1280 | 44.07 | 20.25 | 46.00 | 1.93 | 23.82 | AV | L |
| 10 | 4.1280 | 50.31 | 20.25 | 56.00 | 5.69 | 30.06 | PK | L |
| 11 | 6.6345 | 49.55 | 20.21 | 50.00 | 0.45 | 29.34 | AV | L |
| 12 | 6.6345 | 55.79 | 20.21 | 60.00 | 4.21 | 35.58 | PK | L |



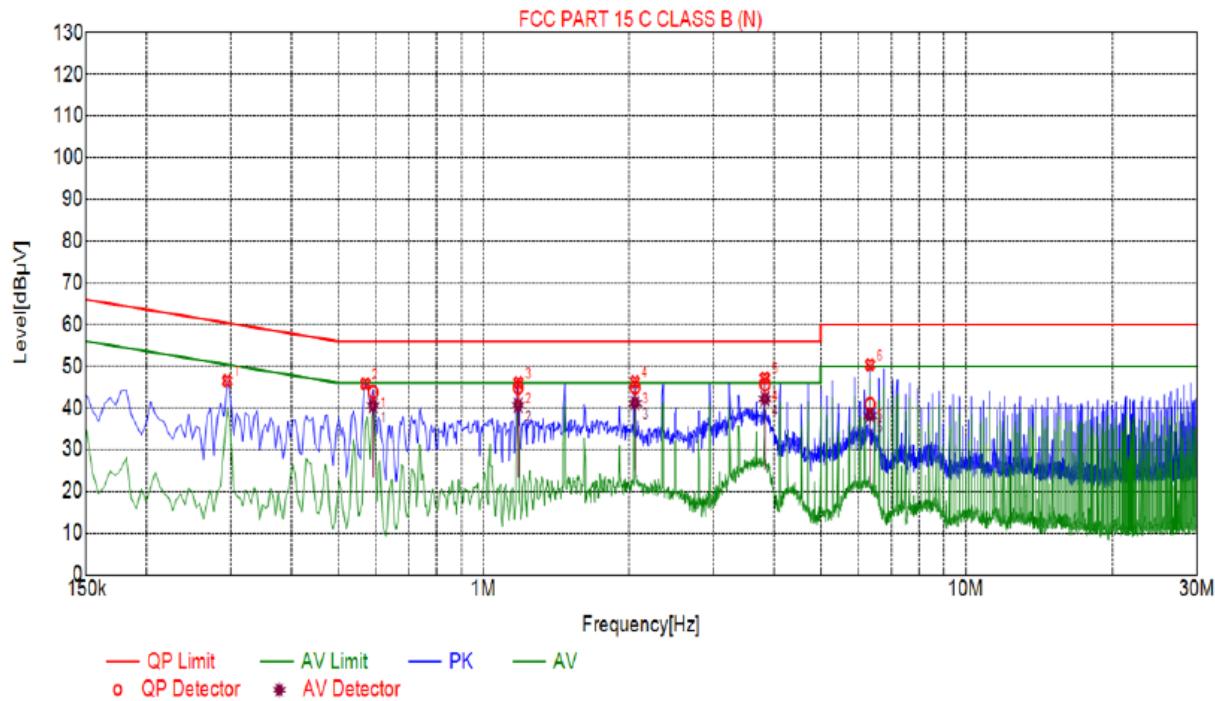
| NO. | Freq. [MHz] | Correction factor[dB] | QP Value [dB μ V] | QP Limit [dB μ V] | QP Margin [dB] | QP Reading [dB μ V] | AV Value [dB μ V] | AV Limit [dB μ V] | AV Margin [dB] | AV Reading [dB μ V] | Type |
|-----|-------------|-----------------------|-----------------------|-----------------------|----------------|-------------------------|-----------------------|-----------------------|----------------|-------------------------|------|
| 1 | 0.5896 | 20.05 | 48.41 | 56.00 | 7.59 | 28.36 | 43.06 | 46.00 | 2.94 | 23.01 | L |
| 2 | 1.7689 | 20.14 | 38.47 | 56.00 | 17.53 | 18.33 | 30.11 | 46.00 | 15.89 | 9.97 | L |
| 3 | 2.9481 | 20.21 | 46.25 | 56.00 | 9.75 | 26.04 | 41.21 | 46.00 | 4.79 | 21.00 | L |
| 4 | 3.8332 | 20.25 | 46.60 | 56.00 | 9.40 | 26.35 | 40.76 | 46.00 | 5.24 | 20.51 | L |
| 5 | 4.1273 | 20.25 | 48.54 | 56.00 | 7.46 | 28.29 | 43.48 | 46.00 | 2.52 | 23.23 | L |
| 6 | 6.6332 | 20.21 | 50.76 | 60.00 | 9.24 | 30.55 | 45.79 | 50.00 | 4.21 | 25.58 | L |

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

Test Specification: Neutral



| Suspected List | | | | | | | | |
|----------------|-------------|--------------------|-------------|--------------------|-------------|----------------------|----------|------|
| NO. | Freq. [MHz] | Level [dB μ V] | Factor [dB] | Limit [dB μ V] | Margin [dB] | Reading [dB μ V] | Detector | Type |
| 1 | 0.2940 | 46.52 | 20.03 | 60.41 | 13.89 | 26.49 | PK | N |
| 2 | 0.5685 | 45.82 | 20.05 | 56.00 | 10.18 | 25.77 | PK | N |
| 3 | 1.1805 | 46.14 | 20.09 | 56.00 | 9.86 | 26.05 | PK | N |
| 4 | 2.0625 | 46.29 | 20.15 | 56.00 | 9.71 | 26.14 | PK | N |
| 5 | 3.8310 | 47.18 | 20.25 | 56.00 | 8.82 | 26.93 | PK | N |
| 6 | 6.3375 | 50.39 | 20.22 | 60.00 | 9.61 | 30.17 | PK | N |

| Final Data List | | | | | | | | | | | |
|-----------------|-------------|-----------------------|-----------------------|-----------------------|----------------|-------------------------|-----------------------|-----------------------|----------------|-------------------------|------|
| NO. | Freq. [MHz] | Correction factor[dB] | QP Value [dB μ V] | QP Limit [dB μ V] | QP Margin [dB] | QP Reading [dB μ V] | AV Value [dB μ V] | AV Limit [dB μ V] | AV Margin [dB] | AV Reading [dB μ V] | Type |
| 1 | 0.5898 | 20.05 | 43.79 | 56.00 | 12.21 | 23.74 | 40.54 | 46.00 | 5.46 | 20.49 | N |
| 2 | 1.1793 | 20.09 | 44.86 | 56.00 | 11.14 | 24.77 | 40.64 | 46.00 | 5.36 | 20.55 | N |
| 3 | 2.0638 | 20.15 | 44.87 | 56.00 | 11.13 | 24.72 | 41.14 | 46.00 | 4.86 | 20.99 | N |
| 4 | 3.8322 | 20.25 | 45.61 | 56.00 | 10.39 | 25.36 | 42.20 | 46.00 | 3.80 | 21.95 | N |
| 5 | 6.3395 | 20.22 | 40.96 | 60.00 | 19.04 | 20.74 | 38.18 | 50.00 | 11.82 | 17.96 | N |

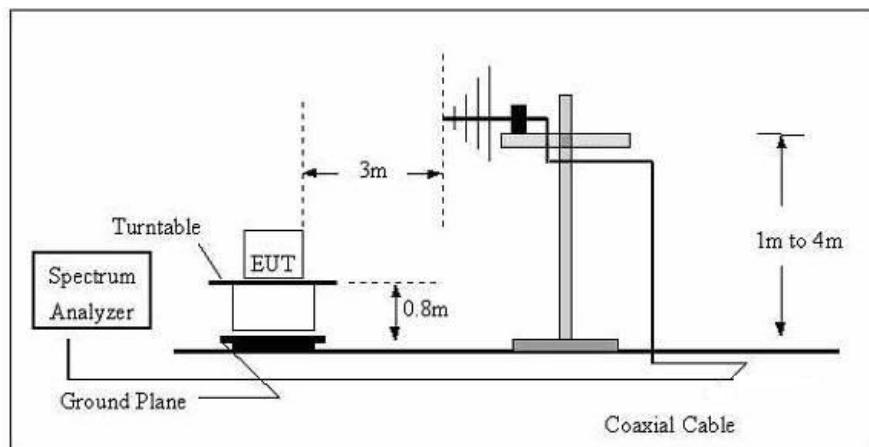
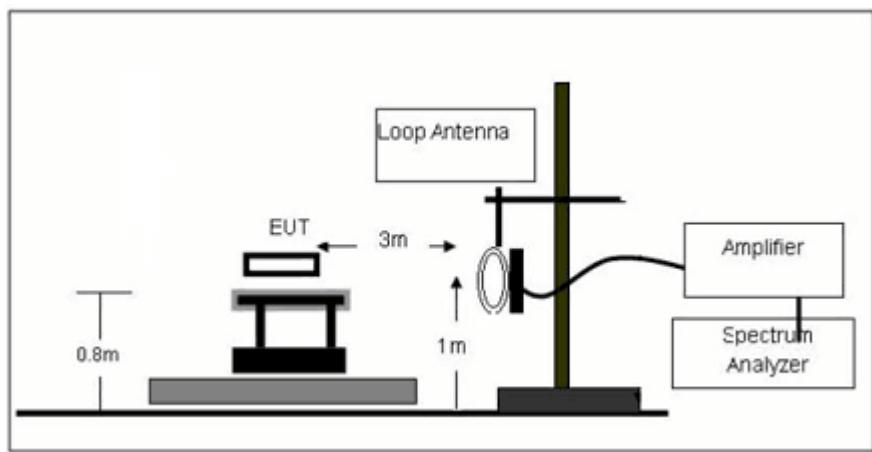
Remark: Margin = Limit - Level

Correction factor = Cable loss + LISN insertion loss

Level=Test receiver reading + correction factor

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 | 20log(2400/F(KHz))+40log(300/3) | 3 |
| 0.490-1.705 | 20log(24000/F(KHz))+40log(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

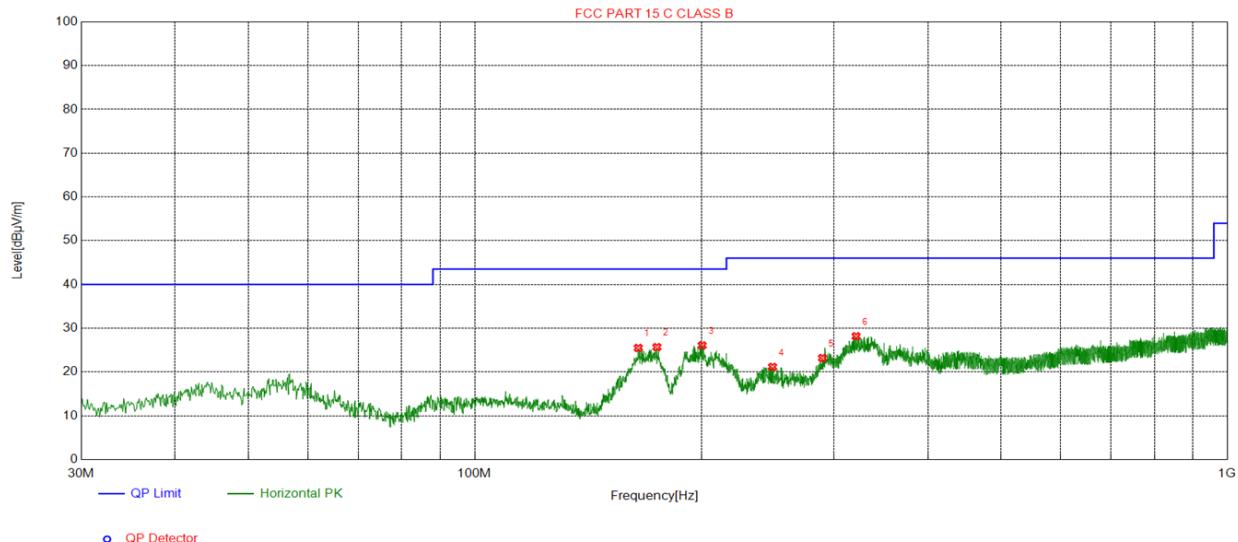
Note: this EUT was tested for all models and the worst case model (DC5V) data was reported.

For 9KHz-30MHz

| Freq. (MHz) | Detector Mode (PK/QP/AV) | Reading (dBuV) | Factor (dB) | Actual FS (dBuV/m) | Limits 3m (dBuV/m) | Margin (dBuV/m) |
|----------------|--------------------------------|-------------------|----------------|-----------------------|-----------------------|--------------------|
| 0.110 | AV | 22.39 | 24.8 | 47.19 | 106.78 | 59.59 |
| 0.125 | AV | 45.62 | 24.8 | 70.42 | 105.67 | 35.25 |
| 0.486 | AV | 26.53 | 25.03 | 51.56 | 93.87 | 42.31 |
| 0.500 | Peak | 27.73 | 25.03 | 52.76 | 73.62 | 20.86 |

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 | 164.9405 | -17.77 | 43.26 | 25.49 | 43.50 | 18.01 | 100 | 45 | Horizontal |
| 2 | 174.6415 | -17.09 | 42.76 | 25.67 | 43.50 | 17.83 | 100 | 7 | Horizontal |
| 3 | 200.5431 | -15.05 | 41.11 | 26.06 | 43.50 | 17.44 | 100 | 18 | Horizontal |
| 4 | 248.7569 | -13.45 | 34.61 | 21.16 | 46.00 | 24.84 | 100 | 7 | Horizontal |
| 5 | 289.7920 | -12.85 | 36.03 | 23.18 | 46.00 | 22.82 | 100 | 247 | Horizontal |
| 6 | 321.2231 | -12.04 | 40.20 | 28.16 | 46.00 | 17.84 | 100 | 45 | 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 [dB μ V/m] | Level [dB μ V/m] | Limit [dB μ V/m] | Margin [dB] | Height [cm] | Angle [°] | Polarity |
|-----|-------------|-------------|------------------------|----------------------|----------------------|-------------|-------------|-----------|----------|
| 1 | 37.4697 | -15.35 | 45.68 | 30.33 | 40.00 | 9.67 | 100 | 336 | Vertical |
| 2 | 43.7754 | -13.87 | 44.27 | 30.40 | 40.00 | 9.60 | 100 | 358 | Vertical |
| 3 | 58.5209 | -14.94 | 46.29 | 31.35 | 40.00 | 8.65 | 100 | 342 | Vertical |
| 4 | 65.6996 | -16.59 | 44.89 | 28.30 | 40.00 | 11.70 | 100 | 76 | Vertical |
| 5 | 86.2656 | -17.97 | 39.36 | 21.39 | 40.00 | 18.61 | 100 | 118 | Vertical |
| 6 | 189.2899 | -16.07 | 41.05 | 24.98 | 43.50 | 18.52 | 100 | 198 | Vertical |

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

Margin = Limit – Level



5. Antenna Requirement

Standard Applicable

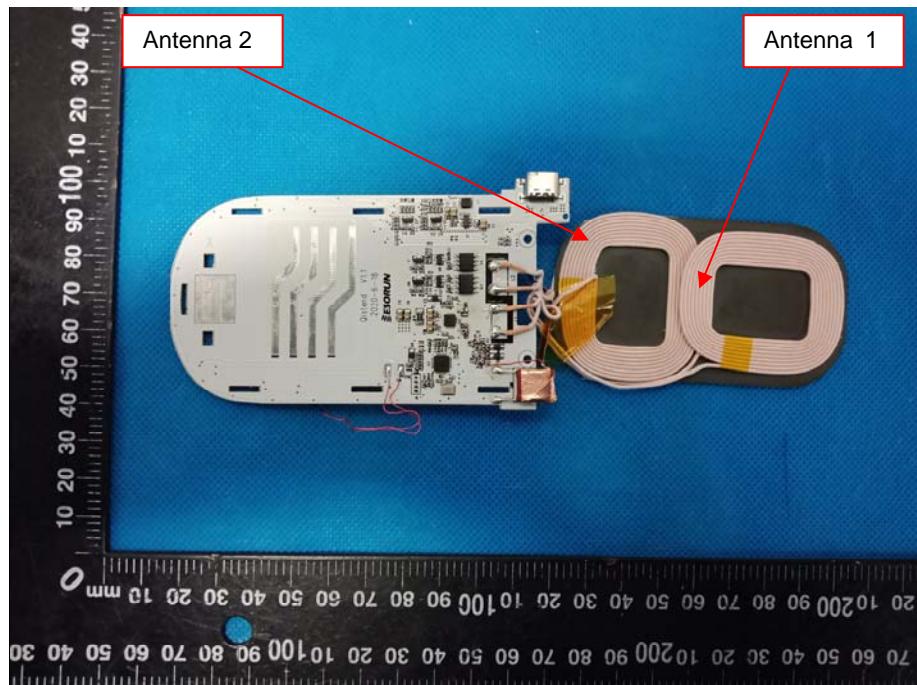
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

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.

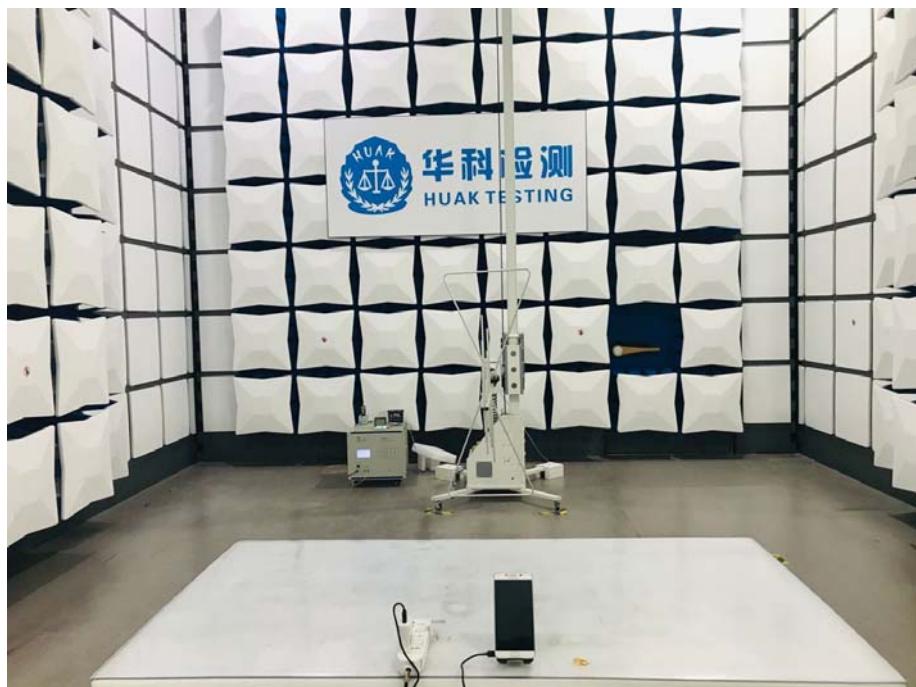
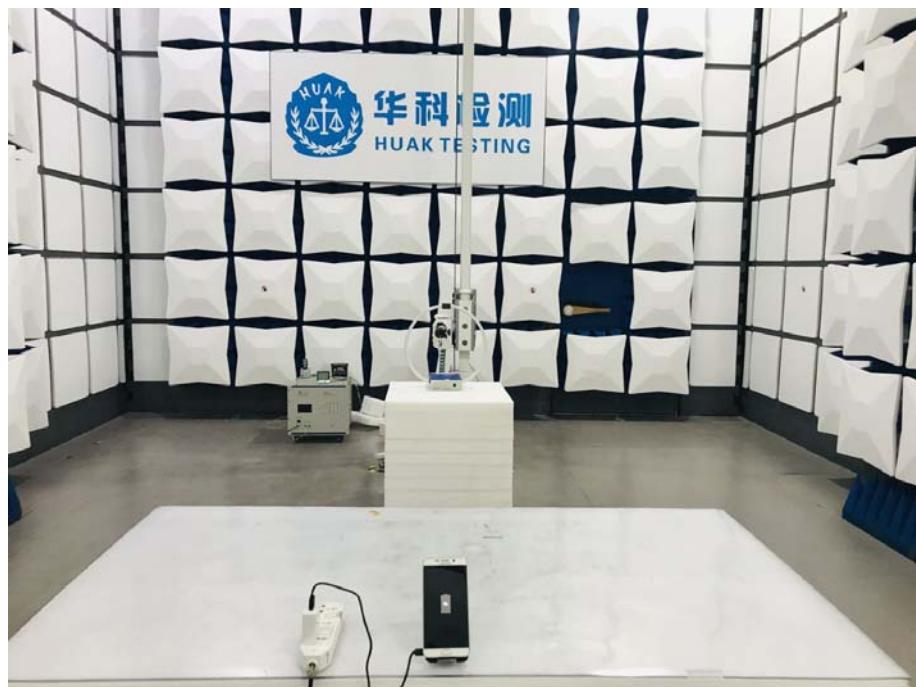
Antenna Connected Construction

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



Conducted Emissions





7. Photos Of The EUT

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

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