FCC TEST REPORT

Test report
On Behalf of
DongGuan Zehao Smart Technology Co.,Ltd.
For
Wireless Charger LED Lamp
Model No.: ZH2815, ZH2815A, ZH2815B, ZH2815C, ZH2815D, ZH2815E, ZH2815F, ZH2815G, ZH2815H, ZH2816, ZH2816A, ZH2816B, ZH2816C, ZH2816D, ZH2816E, ZH2816F, ZH2816G, ZH2816H, ZH2817, ZH2817A, ZH2817B, ZH2817C, ZH2817D, ZH2817E, ZH2817F, ZH2817G, ZH2817H

FCC ID: 2AYSV-ZH2815

Prepared for :	**DongGuan Zehao Smart Technology Co.,Ltd.** **Room 1302, Building 3, Fenggang Tianan Digital City, 208 Fenggang Section, Dongshen Road, Fenggang Town, Dongguan city, Guangdong Province, China**
Prepared By :	**Shenzhen HUAK 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:	**May. 24, 2021 ~ May. 31, 2021**
Date of Report:	**May. 31, 2021**
Report Number:	**HK2105261640-1E**

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TEST RESULT CERTIFICATION

Applicant's name ..... :	DongGuan Zehao Smart Technology Co.,Ltd.
Address ..... :	Room 1302, Building 3, Fenggang Tianan Digital City, 208 Fenggang Section, Dongshen Road, Fenggang Town, Dongguan city, Guangdong Province, China
Manufacture's Name..... :	DongGuan Haojun Smart Technology Co.,Ltd.
Address ..... :	Building 3, No. 35, Shuibu Road, Fenggang Town, Dongguan City, Guangdong Province, China
Product description	
Trade Mark:	N/A
Product name ..... :	Wireless Charger LED Lamp
Model and/or type reference :	ZH2815, ZH2815A, ZH2815B, ZH2815C, ZH2815D, ZH2815E, ZH2815F, ZH2815G, ZH2815H, ZH2816, ZH2816A, ZH2816B, ZH2816C, ZH2816D, ZH2816E, ZH2816F, ZH2816G, ZH2816H, ZH2817, ZH2817A, ZH2817B, ZH2817C, ZH2817D, ZH2817E, ZH2817F, ZH2817G, ZH2817H
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 ..... :	**May. 24, 2021 ~ May. 31, 2021**
Date of Issue..... :	**May. 31, 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 Data	Remark
Revision 1.0	Initial Test Report Release	May. 31, 2021	Jason Zhou

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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. Test Facility

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

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

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

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2. General Information

2.1. General Description of EUT

Equipment	Wireless Charger LED Lamp
Model Name	ZH2815
Serial No.	ZH2815A, ZH2815B, ZH2815C, ZH2815D, ZH2815E, ZH2815F, ZH2815G, ZH2815H, ZH2816, ZH2816A, ZH2816B, ZH2816C, ZH2816D, ZH2816E, ZH2816F, ZH2816G, ZH2816H, ZH2817, ZH2817A, ZH2817B, ZH2817C, ZH2817D, ZH2817E, ZH2817F, ZH2817G, ZH2817H
Model Difference	All model's the function, software and electric circuit are the same, only with a product color, appearance and model named different. Test sample model: ZH2815.
Trade Mark	N/A
FCC ID	**2AYSV-ZH2815**
Antenna Type	Coil Antenna
Antenna Gain	0dBi
Operation frequency	125KHz
Number of Channels	1
Modulation Type	ASK
Power Source	Input: DC5V/2A, DC9V/2A, DC12V/2A Wireless charging power: 15W Max USB Output: DC5V/2A
Power Rating	Input: DC5V/2A, DC9V/2A, DC12V/2A Wireless charging power: 15W Max USB Output: DC5V/2A

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2.2. Carrier Frequency of Channels

Operation Frequency each of channel	
Channel	Frequency
1	125KHz

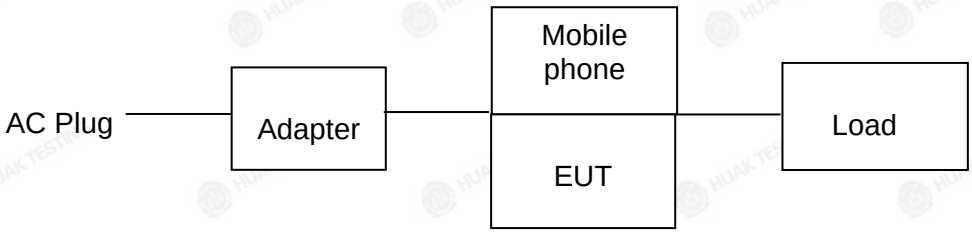
2.3. Operation of EUT during testing

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.

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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	Schewarzbeck	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

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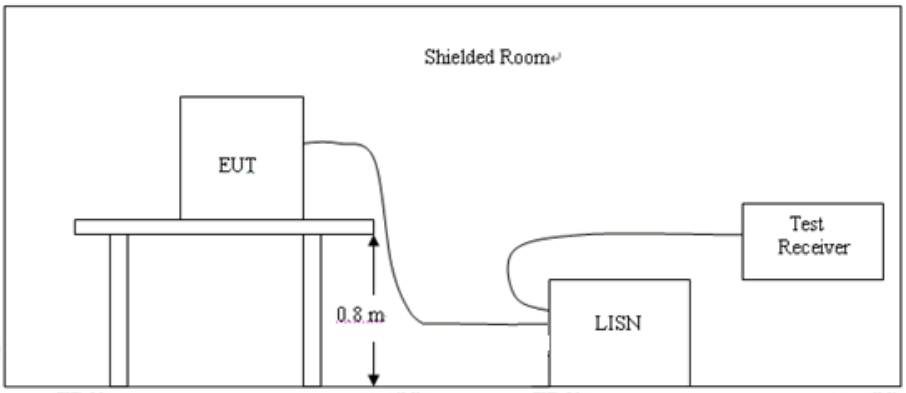
3. Conducted Emission Test

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 §15.207Line 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

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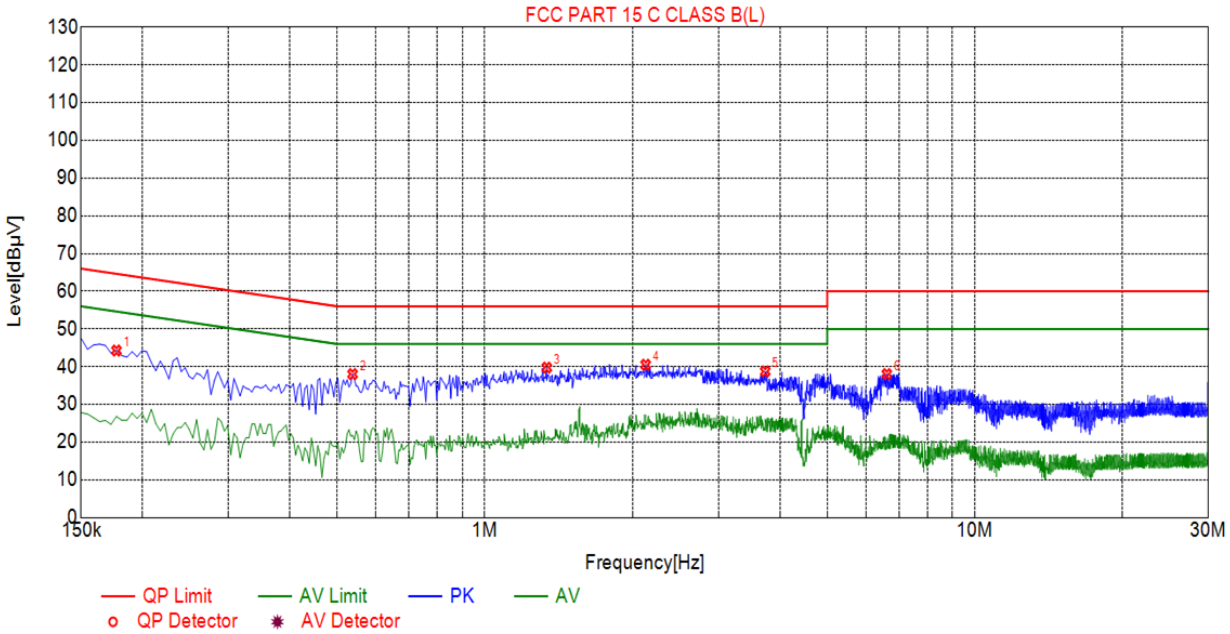
3.4. Test Result

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	0.1770	44.28	20.05	64.63	20.35	24.23	PK	L
2	0.5370	38.04	20.05	56.00	17.96	17.99	PK	L
3	1.3380	39.76	20.10	56.00	16.24	19.66	PK	L
4	2.1300	40.51	20.16	56.00	15.49	20.35	PK	L
5	3.7365	38.73	20.25	56.00	17.27	18.48	PK	L
6	6.6165	38.04	20.21	60.00	21.96	17.83	PK	L

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

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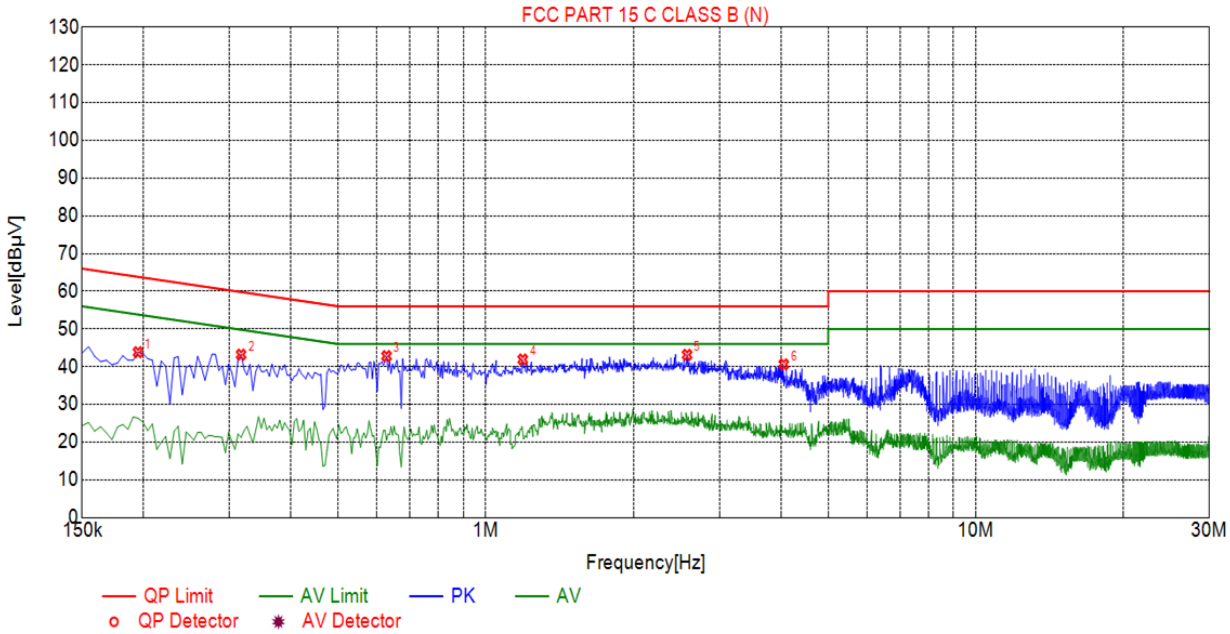
Test Specification: Neutral



Suspected List								
NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.1950	43.84	20.03	63.82	19.98	23.81	PK	N
2	0.3165	43.21	20.05	59.80	16.59	23.16	PK	N
3	0.6270	42.81	20.05	56.00	13.19	22.76	PK	N
4	1.1895	41.91	20.09	56.00	14.09	21.82	PK	N
5	2.5755	43.16	20.20	56.00	12.84	22.96	PK	N
6	4.0560	40.62	20.25	56.00	15.38	20.37	PK	N

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

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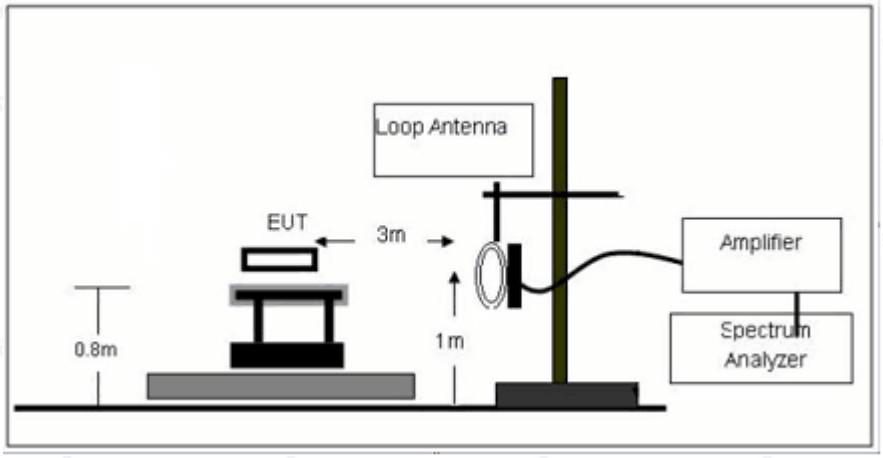
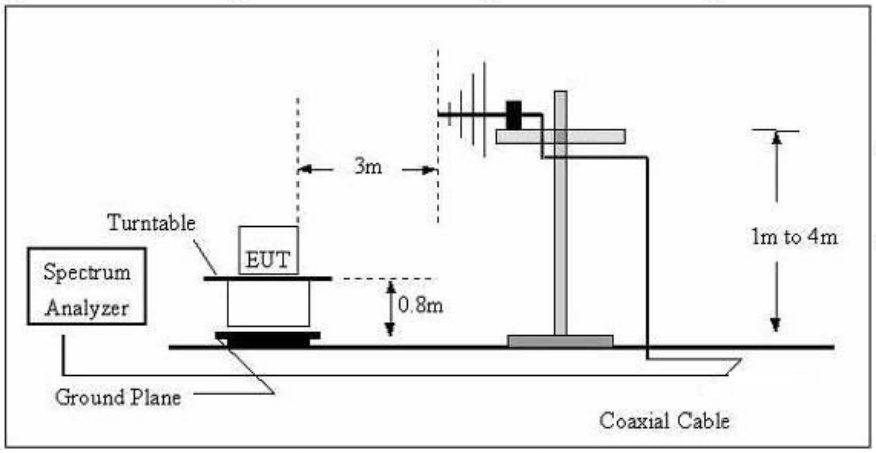
4. Radia Ted Emissions

4.1. Block Diagram of Test Setup





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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

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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.

5.4. 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	22.47	24.8	47.27	106.56	59.29
0.125	AV	45.63	24.8	70.43	105.78	35.35
0.486	AV	26.52	25.03	51.55	93.64	42.09
0.500	Peak	27.24	25.03	52.27	73.55	21.28

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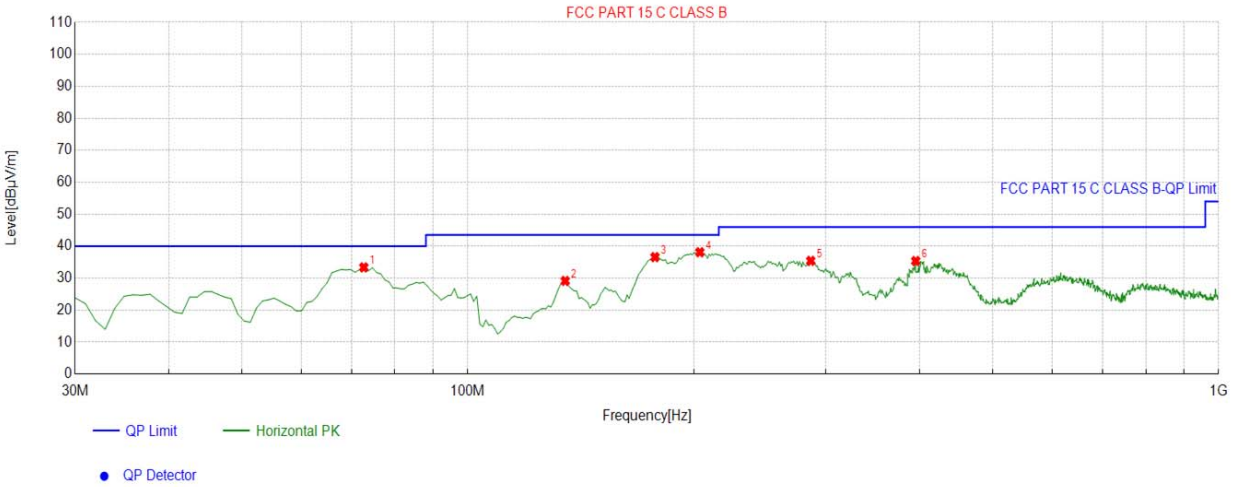
For 30MHz-1GHz

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	72.7227	-18.16	51.52	33.36	40.00	6.64	100	358	Horizontal
2	134.8649	-18.87	48.00	29.13	43.50	14.37	100	325	Horizontal
3	177.5876	-16.96	53.54	36.58	43.50	6.92	100	294	Horizontal
4	203.8038	-14.96	53.06	38.10	43.50	5.40	100	341	Horizontal
5	286.3363	-12.99	48.40	35.41	46.00	10.59	100	230	Horizontal
6	395.0851	-10.53	45.89	35.36	46.00	10.64	100	242	Horizontal

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

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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	63.9840	-16.16	51.43	35.27	40.00	4.73	100	169	Vertical
2	74.6647	-18.51	52.87	34.36	40.00	5.64	100	66	Vertical
3	133.8939	-18.81	56.73	37.92	43.50	5.58	100	169	Vertical
4	147.4875	-19.00	57.56	38.56	43.50	4.94	100	193	Vertical
5	332.9429	-11.60	53.02	41.42	46.00	4.58	100	34	Vertical
6	389.2593	-10.66	50.56	39.90	46.00	6.10	100	114	Vertical

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

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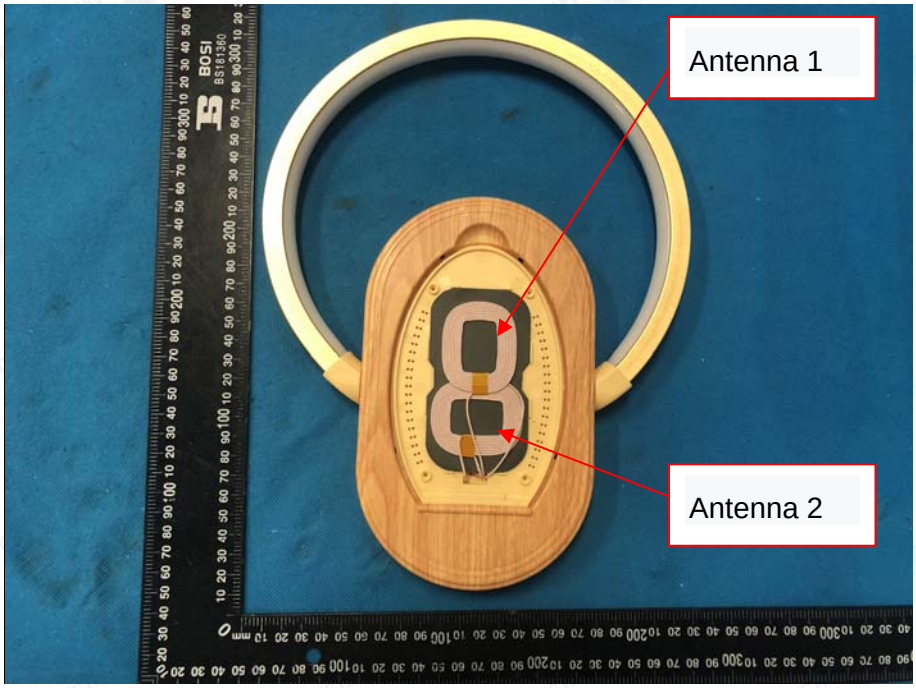
5. Antenna Requirement

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.



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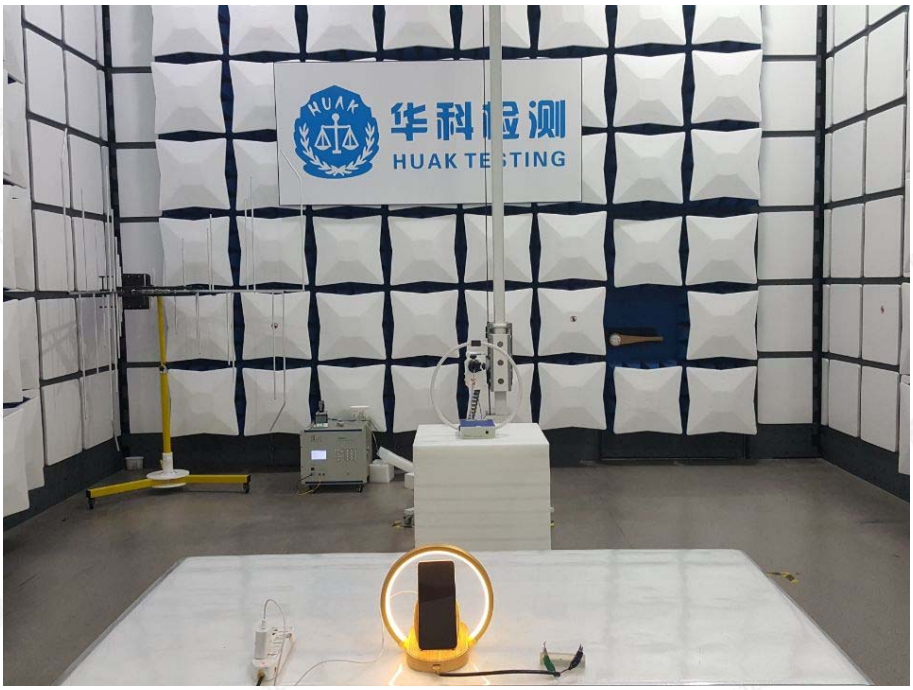
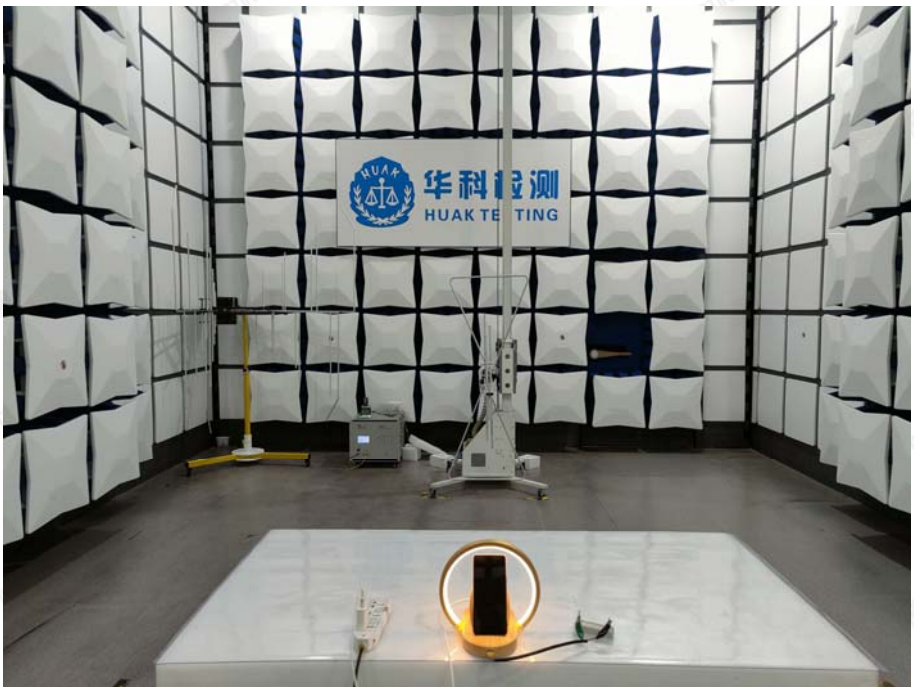
6. Photograph of Test

6.1. Radiated Emission





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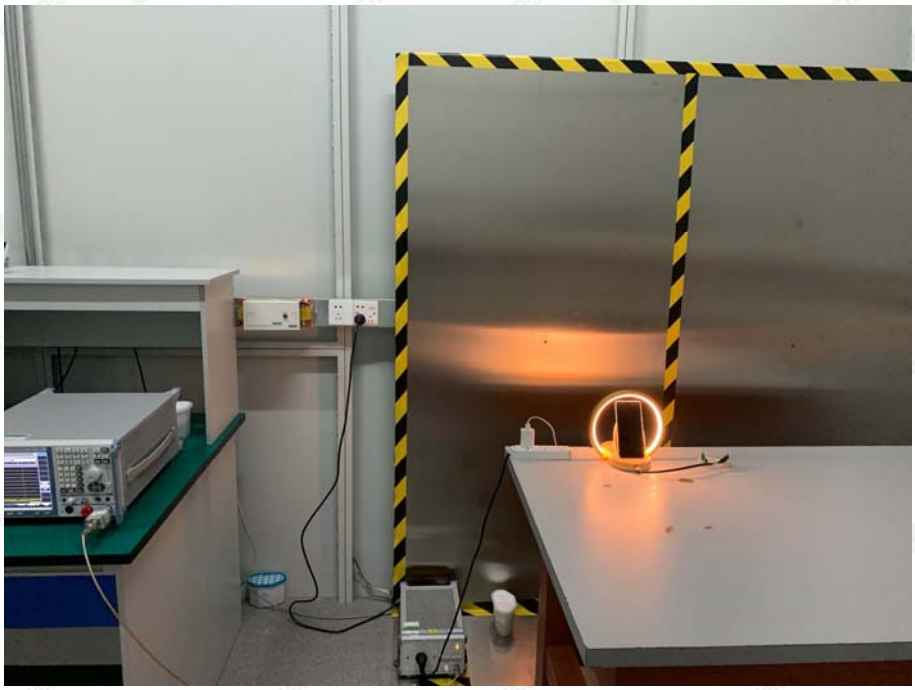
6.2. Conducted Emission



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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---------

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