



# FCC TEST REPORT

**Test report  
On Behalf of  
shenzhenhuazhifazhankejiyouxiangongsi  
For**

**magic wireless charger**

**Model No.: MWC-B, MWC-BGREEN, MWC-XJH, MWC-GREEN,  
LH-BWC-BY01, LH-BWC-YE001, LH-BWC-BU, LH-BWC-YE004,  
LH-BWC-BG01**

**FCC ID: 2A47JMWC-B**

**Prepared For :** shenzhenhuazhifazhankejiyouxiangongsi  
shenzhenshilonghuaquminzhijiedaominzhishequmeihuashanzhuangsimeiyuan43  
dong101

**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:** Feb. 10, 2022 ~ Feb. 22, 2022

**Date of Report:** Feb. 22, 2022

**Report Number:** HK2202180470-1E

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**HUAK Testing Lab** TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : [service@cer-mark.com](mailto:service@cer-mark.com)

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



## TEST RESULT CERTIFICATION

**Applicant's name** ..... : shenzhenhuazhifazhankejiyouxiangongsi

Address ..... : shenzhenshilonghuaquminzhijiedaominzhishequmeihuashanzhuangsimeiyuan43  
dong101

**Manufacture's Name** ..... : shenzhenhuazhifazhankejiyouxiangongsi

Address ..... : shenzhenshilonghuaquminzhijiedaominzhishequmeihuashanzhuangsimeiyuan43  
dong101

**Product description**

Trade Mark: LH-YiGo, Olahomo

Product name ..... : magic wireless charger

Model and/or type reference : MWC-B, MWC-BGREEN, MWC-XJH, MWC-GREEN, LH-BWC-BY01,  
LH-BWC-YE001, LH-BWC-BU, LH-BWC-YE004, LH-BWC-BG01

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

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

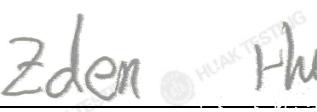
Date (s) of performance of tests ..... **Feb. 10, 2022 ~ Feb. 22, 2022**

Date of Issue ..... **Feb. 22, 2022**

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

Testing Engineer : 

(Gary Qian)

Technical Manager : 

(Eden Hu)

Authorized Signatory : 

(Jason Zhou)

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**Table of Contents**

	<b>Page</b>
1 . TEST SUMMARY	5
1.1 . Test Procedures And Results	5
1.2 . Information of the Test Laboratory	5
1.3 . Measurement Uncertainty	5
2. GENERAL INFORMATION	6
2.1. General Description of EUT	6
2.2. Carrier Frequency of Channels	7
2.3. Operation of EUT during testing	7
2.4. Description of Test Setup	7
2.5. Measurement Instruments List	8
3. CONDUCTED EMISSION TEST	9
3.1. Block Diagram of Test Setup	9
3.2. Conducted Power Line Emission Limit	9
3.3. Test Procedure	9
4. RADIATED EMISSIONS	12
4.1. Block Diagram of Test Setup	12
4.2. Rules and specifications	13
4.3. Test Procedure	14
4.4. Test Result	14
5. ANTENNA REQUIREMENT	18
6. PHOTOGRAPH OF TEST	19
7. PHOTOS OF THE EUT	21

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

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Feb. 22, 2022	Jason Zhou

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



## 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 HUAK 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:	magic wireless charger
Model Name:	MWC-B
Series Models:	MWC-BGreen, MWC-XJH, MWC-Green, LH-BWC-BY01, LH-BWC-YE001, LH-BWC-BU, LH-BWC-YE004, LH-BWC-BG01
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: MWC-B
Trade Mark:	LH-YiGo, Olahomo
FCC ID:	<b>2A47JMWC-B</b>
Antenna Type:	Coil Antenna
Antenna Gain:	0dBi
Operation frequency:	111.5KHz~205KHz
Test frequency:	141KHz
Number of Channels:	1
Modulation Type:	ASK
Power Source:	Input: DC 5V-9V Wireless Output: 5W-15W
Power Rating:	Input: DC 5V-9V Wireless Output: 5W-15W

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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:



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

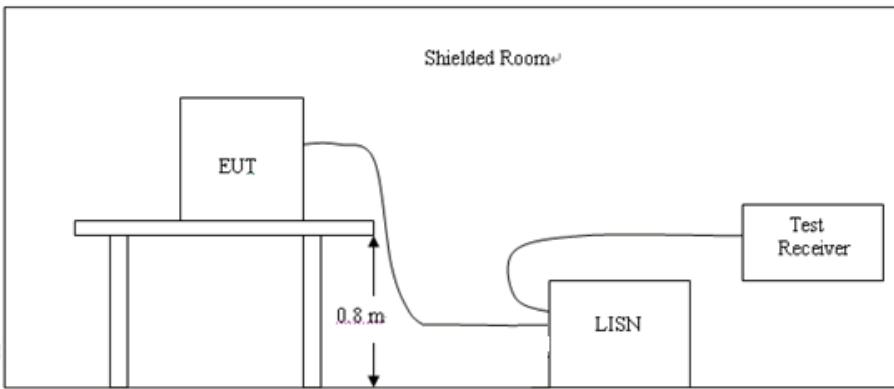
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Dec. 09, 2021	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Dec. 09, 2021	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 09, 2021	1 Year
4.	Spectrum analyzer	R&S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

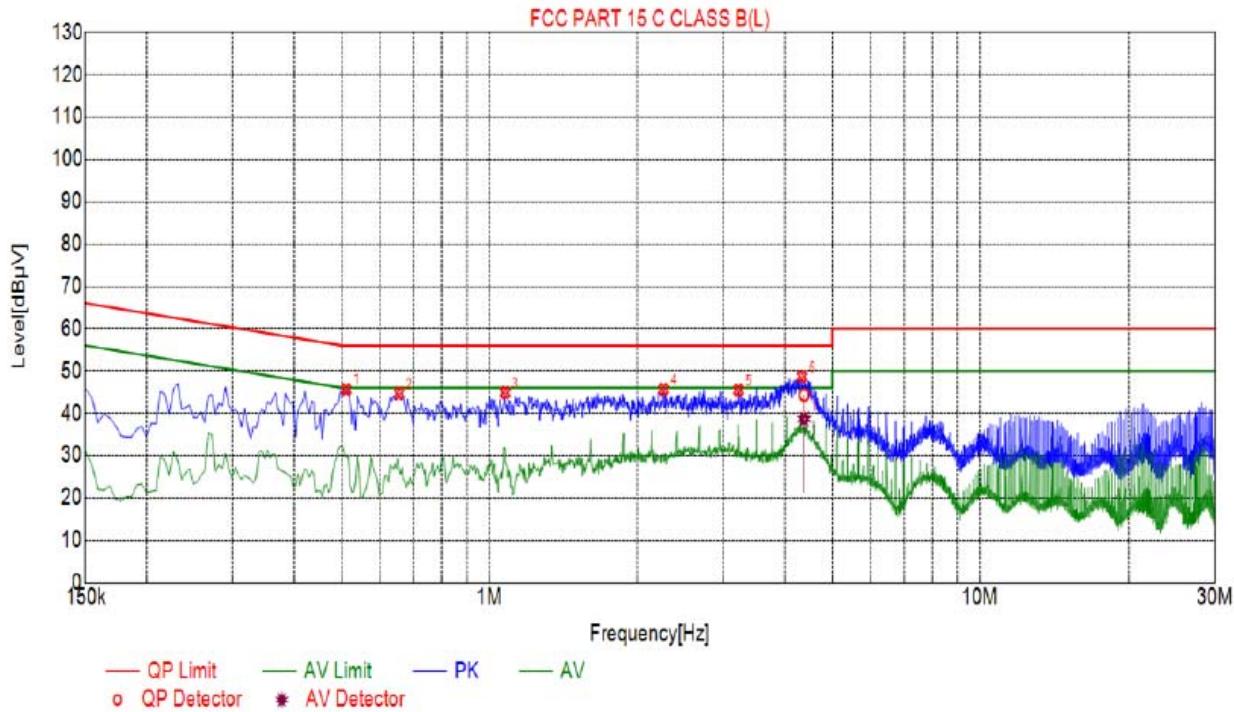


## 3.4. Test Result

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	0.5100	45.59	20.04	56.00	10.41	25.55	PK	L
2	0.6540	44.70	20.05	56.00	11.30	24.65	PK	L
3	1.0770	44.86	20.07	56.00	11.14	24.79	PK	L
4	2.2650	45.66	20.18	56.00	10.34	25.48	PK	L
5	3.2190	45.48	20.23	56.00	10.52	25.25	PK	L
6	4.3395	48.66	20.25	56.00	7.34	28.41	PK	L

### 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	4.3828	20.25	44.35	56.00	11.65	24.10	38.63	46.00	7.37	18.38	L

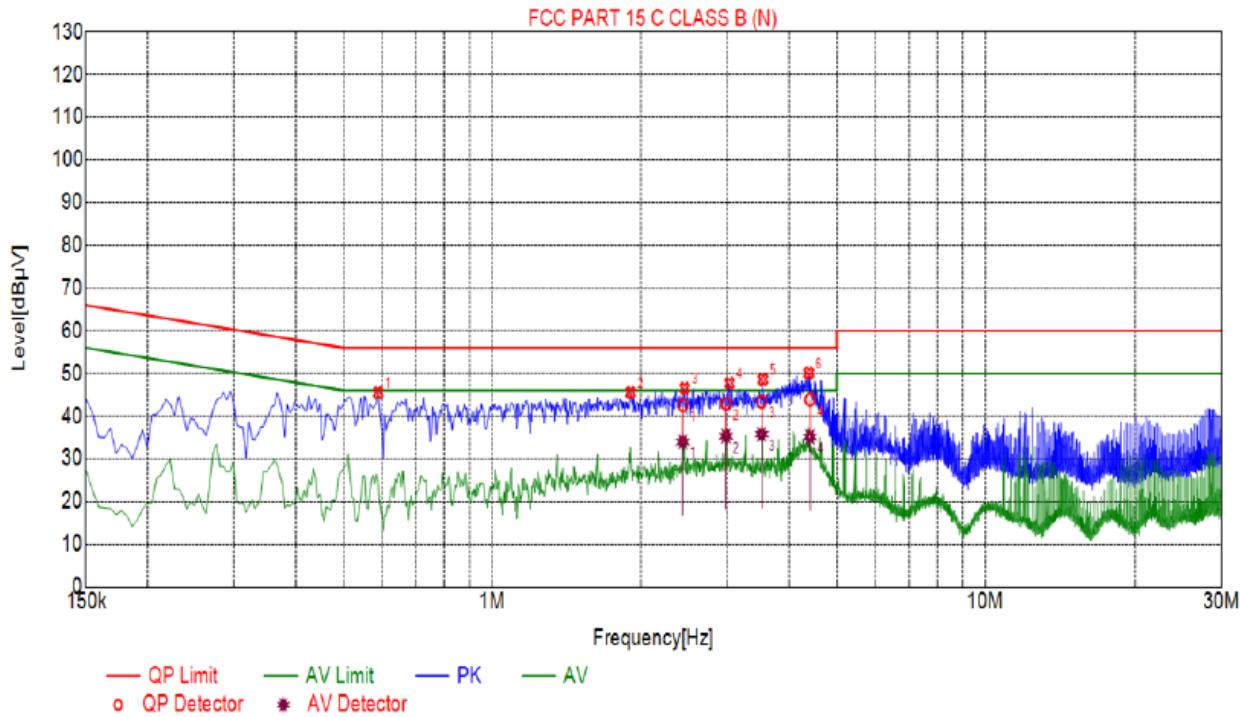
Remark: Margin = Limit - Level

Correction factor = Cable loss + LISN insertion loss

Level=Test receiver reading + correction factor



Test Specification: Neutral



## Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.5865	45.49	20.05	56.00	10.51	25.44	PK	N
2	1.9095	45.52	20.14	56.00	10.48	25.38	PK	N
3	2.4585	46.51	20.19	56.00	9.49	26.32	PK	N
4	3.0300	47.73	20.22	56.00	8.27	27.51	PK	N
5	3.5430	48.61	20.25	56.00	7.39	28.36	PK	N
6	4.3890	50.12	20.25	56.00	5.88	29.87	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	2.4374	20.18	42.55	56.00	13.45	22.37	33.96	46.00	12.04	13.78	N
2	2.9805	20.22	42.92	56.00	13.08	22.70	35.32	46.00	10.68	15.10	N
3	3.5216	20.25	43.41	56.00	12.59	23.16	35.77	46.00	10.23	15.52	N
4	4.4098	20.25	43.86	56.00	12.14	23.61	35.12	46.00	10.88	14.87	N

Remark: Margin = Limit - Level

Correction factor = Cable loss + LISN insertion loss

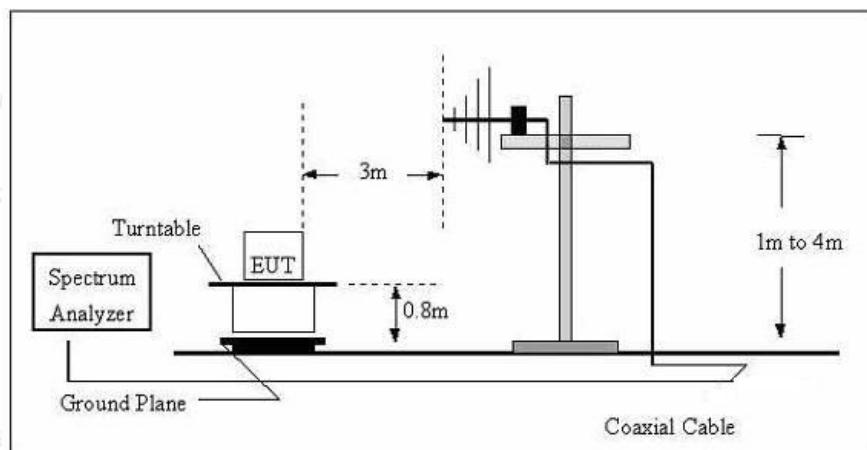
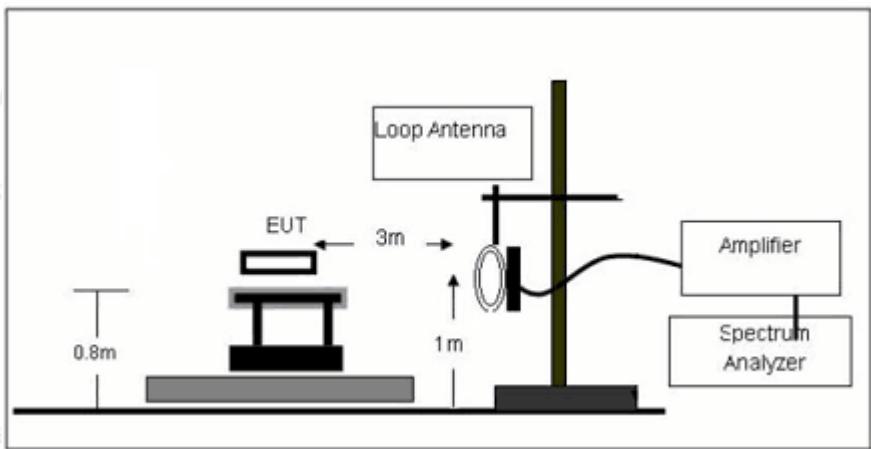
Level=Test receiver reading + correction factor

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## 4. RADIATED EMISSIONS

### 4.1. Block Diagram of Test Setup



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



## 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	(12)
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.

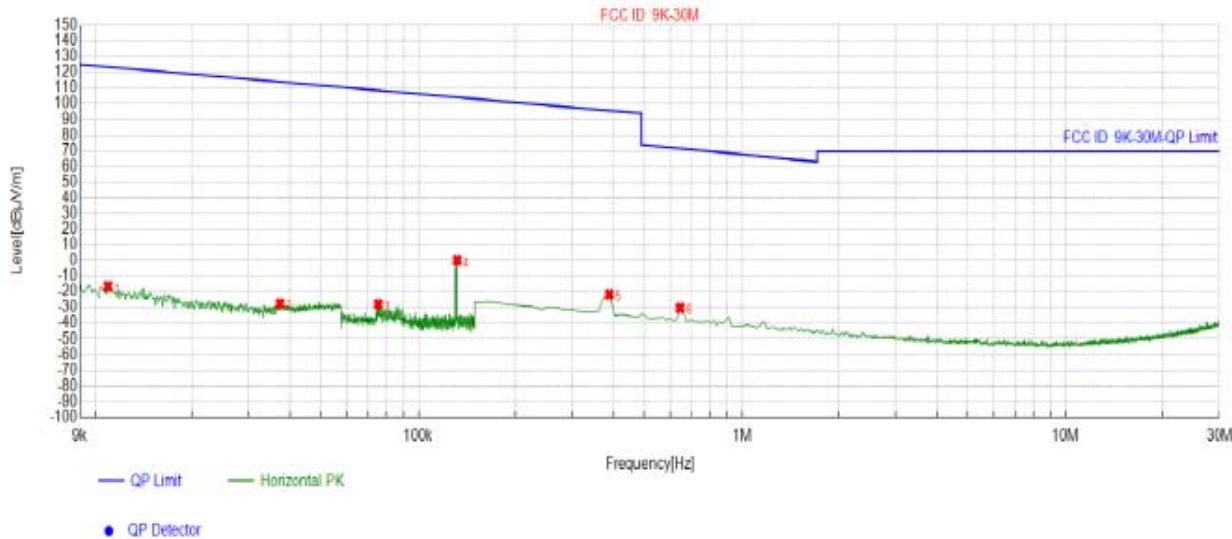
### 4.4. Test Result

**PASS**

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



For 9KHz-30MHz



Suspected List						
NO.	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]
1	0.0110	-66.16	49.65	-16.51	121.66	138.17
2	0.0373	-68.03	40.56	-27.47	113.79	141.26
3	0.0753	-68.60	40.68	-27.92	108.31	136.23
4	0.1319	-68.72	68.86	0.14	103.92	103.78
5	0.3889	-68.73	47.21	-21.52	95.60	117.12
6	0.6428	-68.69	38.40	-30.29	71.38	101.67

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

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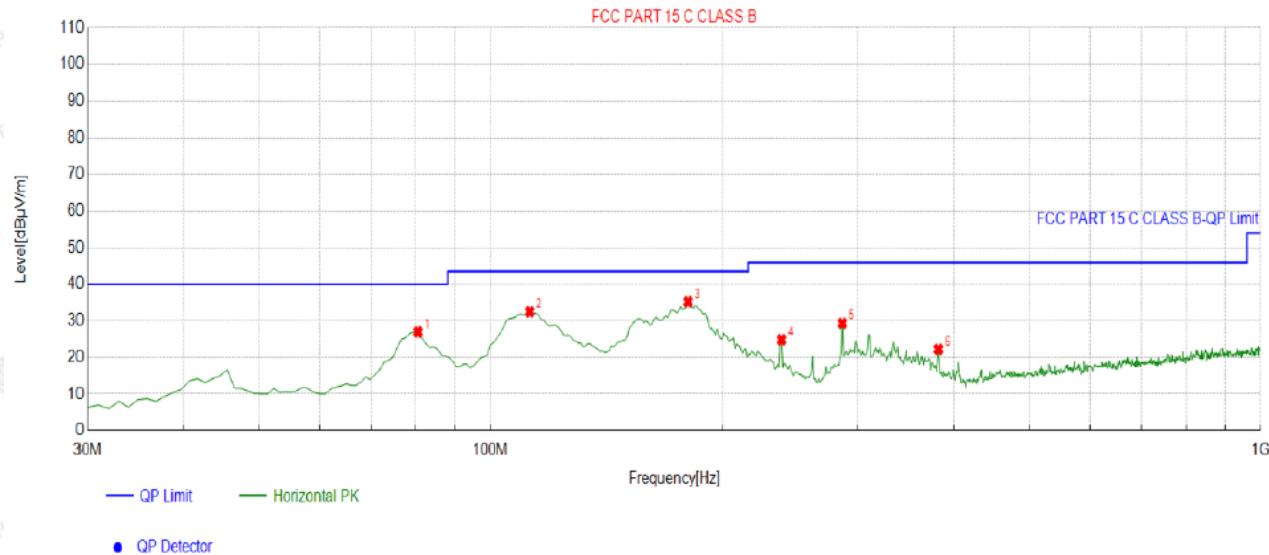
HUAK Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : [service@cer-mark.com](mailto:service@cer-mark.com)

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For 30MHz-1GHz

Antenna polarity: H

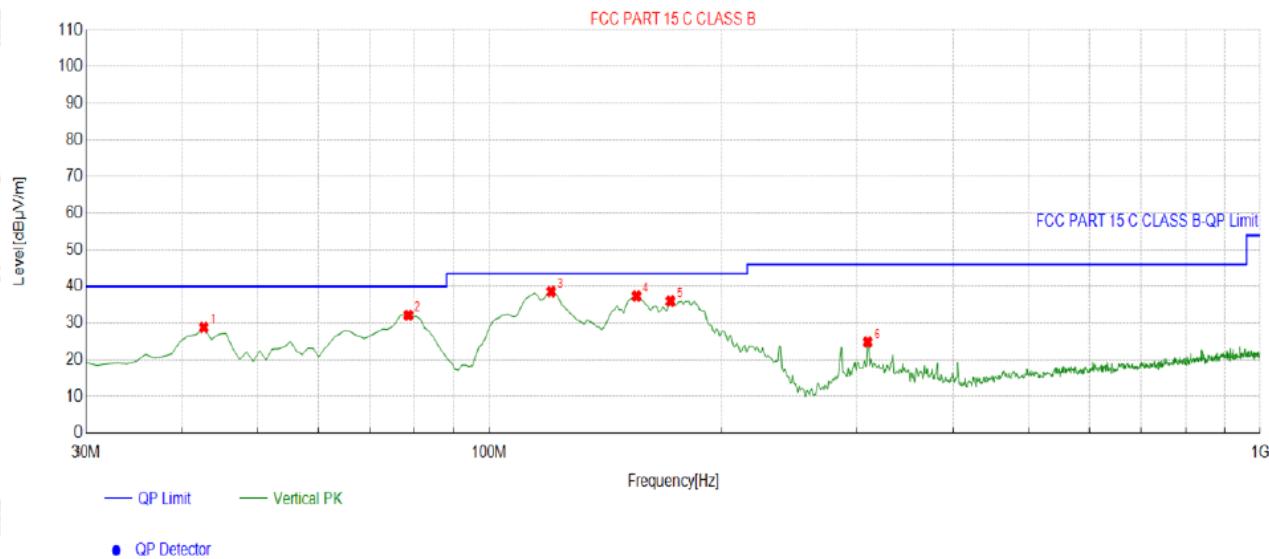


Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dB $\mu$ V/m]	Level [dB $\mu$ V/m]	Limit [dB $\mu$ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	80.4905	-19.35	46.30	26.95	40.00	13.05	100	13	Horizontal
2	112.5325	-15.85	48.31	32.46	43.50	11.04	100	164	Horizontal
3	180.5005	-16.81	52.02	35.21	43.50	8.29	100	278	Horizontal
4	238.7588	-13.91	38.76	24.85	46.00	21.15	100	104	Horizontal
5	286.3363	-12.99	42.32	29.33	46.00	16.67	100	266	Horizontal
6	381.4915	-10.80	33.04	22.24	46.00	23.76	100	286	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	42.6226	-14.07	42.87	28.80	40.00	11.20	100	116	Vertical
2	78.5485	-19.21	51.39	32.18	40.00	7.82	100	56	Vertical
3	120.3003	-17.14	55.73	38.59	43.50	4.91	100	192	Vertical
4	155.2553	-18.56	55.94	37.38	43.50	6.12	100	215	Vertical
5	171.7618	-17.22	53.25	36.03	43.50	7.47	100	195	Vertical
6	309.6396	-12.61	37.46	24.85	46.00	21.15	100	192	Vertical

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



## 5. ANTENNA REQUIREMENT

### Standard Applicable

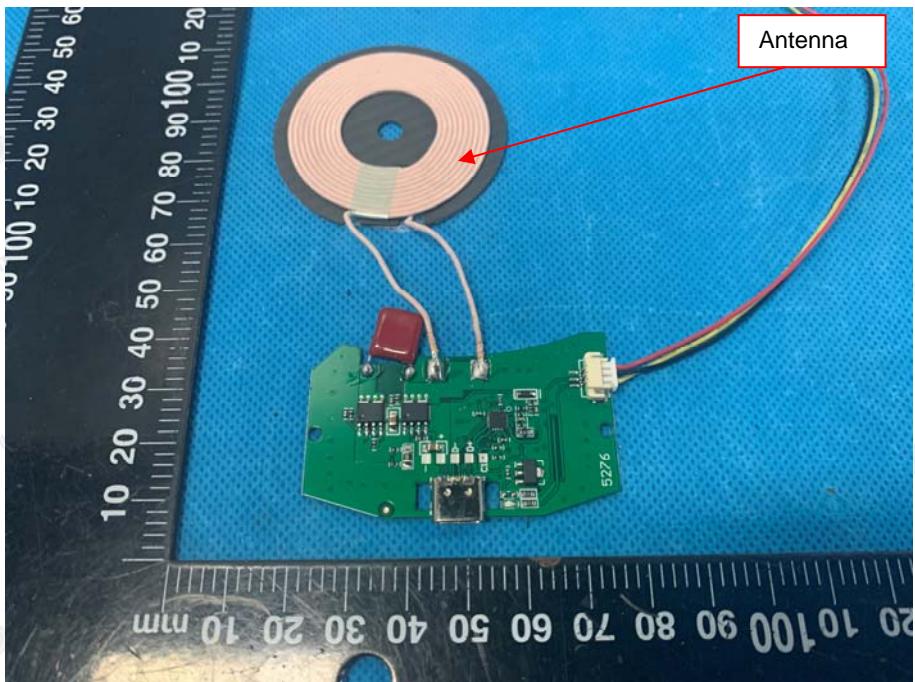
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### 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

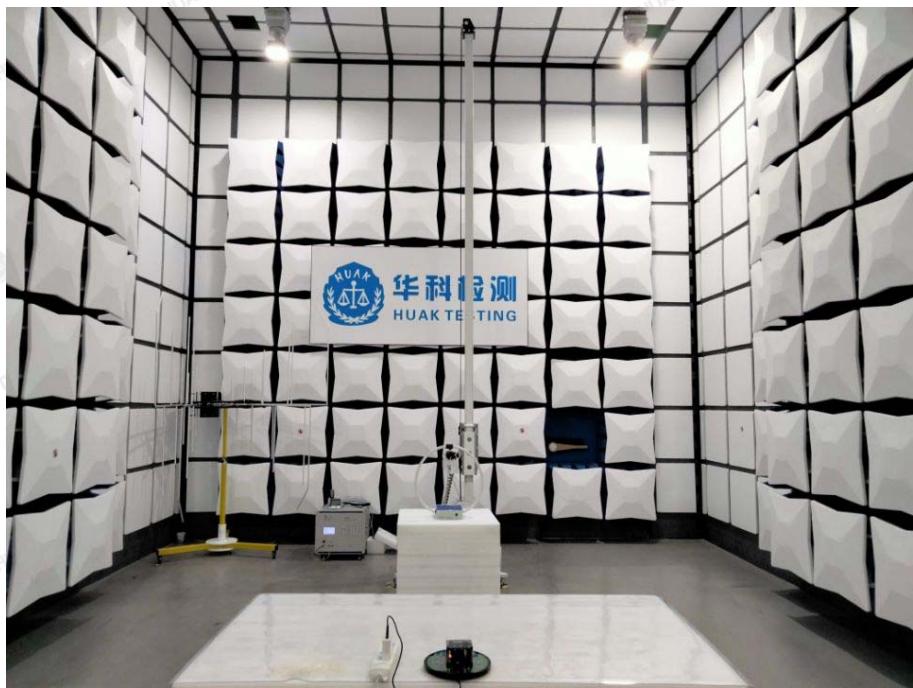
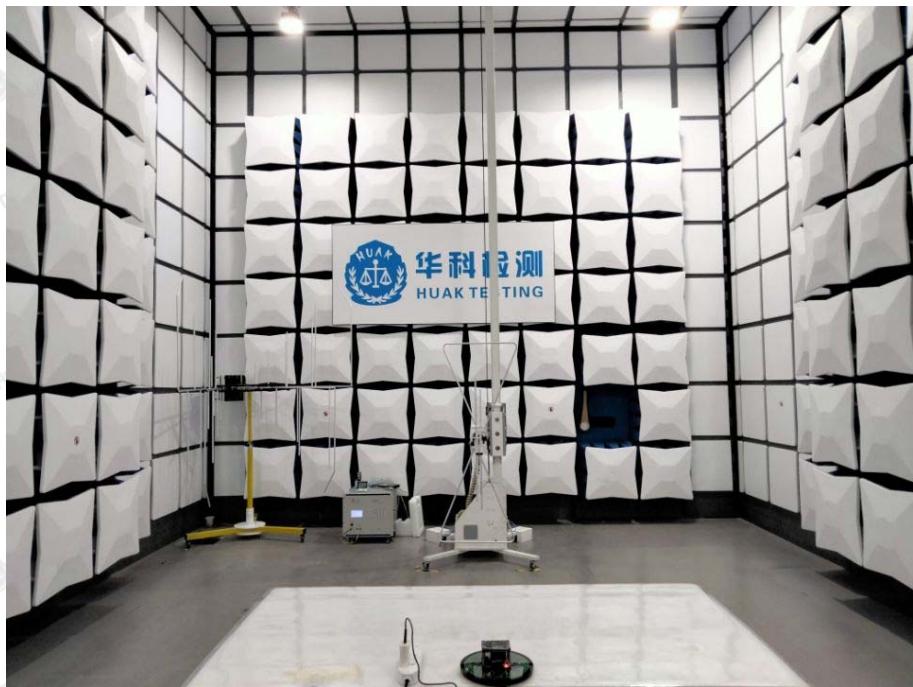
The antenna used in this product is a Coil Antenna, which permanently attached. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 0dBi.





## 6. PHOTOGRAPH OF TEST

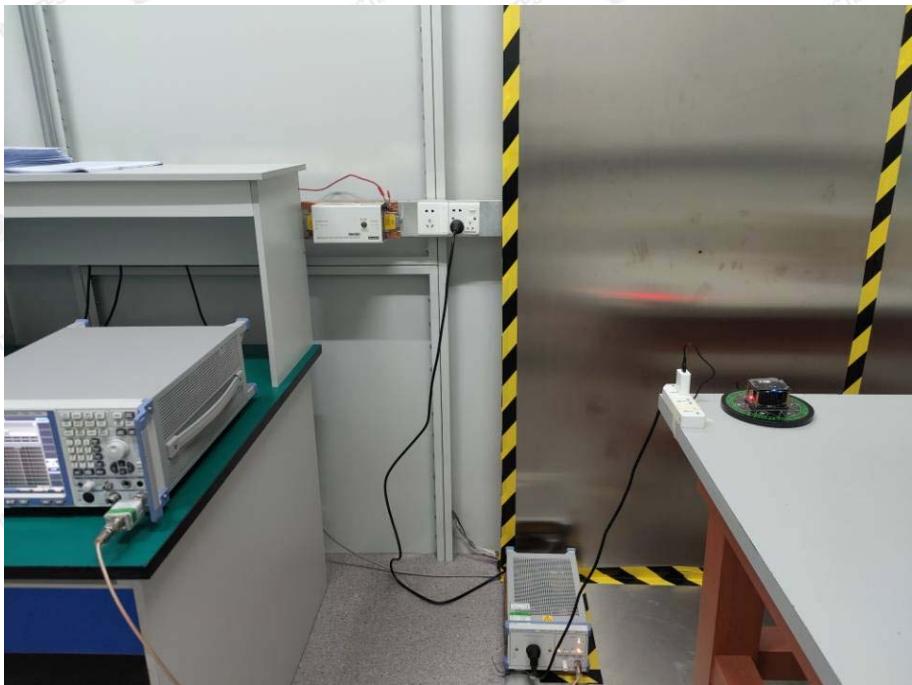
### Radiated Emission



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>

**HUAK Testing Lab** TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : [service@cer-mark.com](mailto:service@cer-mark.com)

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

**Conducted Emissions**

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**HUAK Testing Lab** TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : [service@cer-mark.com](mailto:service@cer-mark.com)

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



## 7. PHOTOS OF THE EUT

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

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