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Report No.: HK2204021390-1E

FCC TEST REPORT

Test report On Behalf of Guanyu(Dongguan) Intelligent Technology Co.,Ltd For Wireless Charger Model No.: W55, W55A

FCC ID: 2A2NS-W55

Prepared For :

Guanyu(Dongguan) Intelligent Technology Co.,Ltd 1001 Room,No#3 building, No#36 Fuxing road,Chang'an town, Dongguan City,Guangdong, 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:
 Apr. 02, 2022 ~ Apr. 14, 2022

 Date of Report:
 Apr. 14, 2022

 Report Number:
 HK2204021390-1E

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TEST RESULT CERTIFICATION

Applicant's name:	Guanyu(Dongguan) Intelligent Technology Co.,Ltd
Address:	1001 Room,No#3 building, No#36 Fuxing road,Chang'an town, Dongguan City,Guangdong, China
Manufacture's Name:	Guanyu(Dongguan) Intelligent Technology Co.,Ltd
Address:	1001 Room,No#3 building, No#36 Fuxing road,Chang'an town, Dongguan City,Guangdong, China
Product description	
Trade Mark:	Guany
Product name:	Wireless Charger
Model and/or type reference :	W55, W55A
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:	Apr. 02, 2022 ~ Apr. 14, 2022
Date of Issue	Apr. 14, 2022
Test Result	Pass

Testing Engineer

(Gary Qian)

Technical Manager

(Eden Hu)

Authorized Signatory:

(Jason Zhou)

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Т 691

** Modified History **

Revision	Description	Issued Data	Remark	
Revision 1.0	Initial Test Report Release	Apr. 14, 2022	Jason Zhou	
TAK TEST.	IAK TEST	TEST. MAKTEST.	UAK TES	
China			CO m	

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- 1. TEST SUMMARY
 - 1.1. Test Procedures And Results

DESCRIPTION OF TEST CONDUCTED EMISSIONS TEST RADIATED EMISSION TEST ANTENNA REQUIREMENT SECTION NUMBER 15.207 15.209 15.203 RESULT COMPLIANT COMPLIANT 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	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)	and the	4.28dB, k=2

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2. GENERAL INFORMATION

2.1. General Description of EUT

Equipment:	Wireless Charger	HUAK TES !!	HUAKTES
Model Name:	W55		C.
Series Models:	W55A	AKTESTING	Dia
Model Difference:	All model's the function, software and electric with model named different. Test sample in		ne same, only
Trade Mark:	Guany	1. California (1. Cal	
FCC ID:	2A2NS-W55	AK TESTING	WAX TESTING
Antenna Type:	Coil Antenna	O HUN	0
Antenna Gain:	0dBi		
Operation frequency:	111.5KHz~205KHz	resting	TESTING
Test frequency:	114KHz	O HUAR	C HUAR
Number of Channels:	1	TING	
Modulation Type:	ASK	HUAKTED	resting
Power Source:	Input: 5V/3A(MAX), 9V/3A(MAX), 12V/2A Output:15W/10W/7.5W/5W Watch Output: 2.5W TWS earphone output: 5W(MAX)	STING C	HUAN TESTING
Power Rating:	Input: 5V/3A(MAX), 9V/3A(MAX), 12V/2A Output:15W/10W/7.5W/5W Watch Output: 2.5W TWS earphone output: 5W(MAX)	O HUAK TESTING	HUAKTESTING

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2.2. Carrier Frequency of Channels

Operation F	Frequency each of channel	MAKTESTIN WAKTEST	MAKTESTIN	HUAKTES
Channel	Frequency		0. 4	9
1	114KHz			

2.3. Operation of EUT during testing Operating Mode The mode is used: Transmitting mode

2.4. Test Mode

EUT Mode		Description				
0	0	Cell phone setting 15W				
MAX TEST	ANT 1	Cell phone setting 10W				
	ANTI	Cell phone setting 7.5W				
	TAG TESTING	Cell phone setting 5W				
	ANT 2	Cell watch setting 2.5W				
	ANT 3	Cell earphone setting 5.0W				
Charging	ANT 1+ANT 2	Cell phone setting 15W+ Cell watch setting 2.5W				
O HUAK IL	ANT 1+ANT 3	Cell phone setting 15W+ Cell earphone setting 5.0W				
G STING	ANT 2+ANT 3	Cell watch setting 2.5W+ Cell earphone setting 5.0W				
O HUANTES	ANT1+ANT2+ANT3*	Cell phone setting 15W+ Cell watch setting 2.5W+ Cell earphone setting 5.0W				

* The combination of configurations used situations in which the output of electric and magnetic fields was high in each antenna.

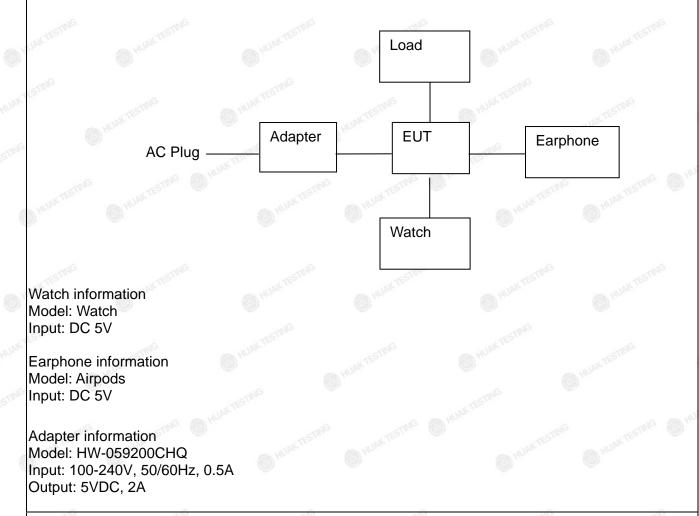
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2.5. Description of Test Setup

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.

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2.6. Measurement Instruments List

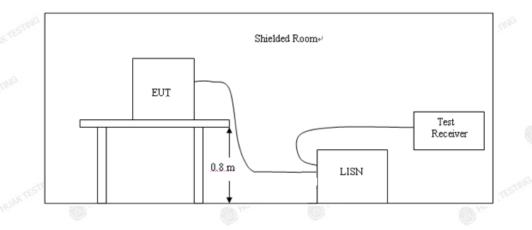
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interva
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Feb. 18, 2022	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Feb. 18, 2022	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	1 Yea
4.	Spectrum analyzer	R&S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

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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)

Execution of a	Maximum RF Line Voltage (dBµV)					
Frequency (MHz)	CLAS	SS A	CLASS B			
(11112)	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.

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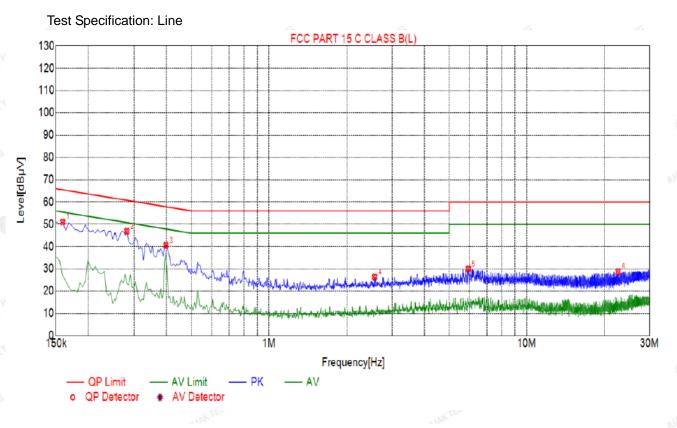
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3.4. Test Result

PASS

All the test modes completed for test. Only the worst result (ANT1+ANT2+ANT3) was reported as below:



Sus	Suspected List									
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре		
1	0.1590	51.05	20.01	65.52	14.47	31.04	PK	L		
2	0.2805	46.88	20.04	60.80	13.92	26.84	PK	L		
3	0.3975	40.61	20.04	57.91	17.30	20.57	PK	L		
4	2.5710	26.37	20.20	56.00	29.63	6.17	PK	L		
5	5.937 <mark>0</mark>	30.08	20.23	60.00	29.92	9.85	PK	L		
6	22.6185	28.73	20.17	60.00	31.27	8.56	PK	L		

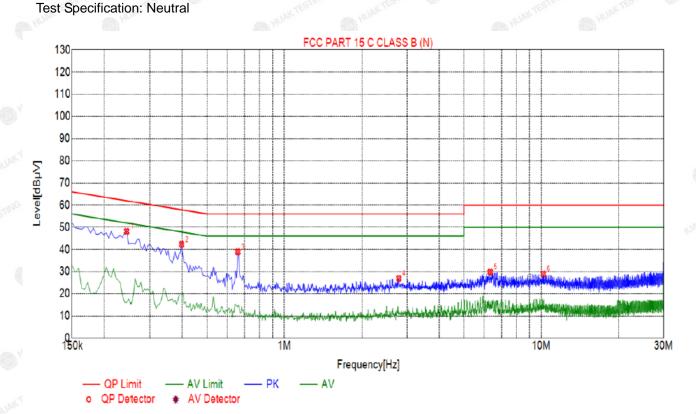
Remark: Margin = Limit - Level Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

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Suspected List

NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре		
1	0.2445	48.17	20.03	61.94	13.77	28.14	PK	N		
2	0.3975	42.33	20.04	57.91	15.58	22.29	PK	Ν		
3	0.6585	38.98	20.05	56.00	17.02	18.93	PK	N		
4	2.7870	26.94	20.21	56.00	29.06	6.73	PK	Ν		
5	6.3285	29.85	20.22	60.00	30.15	9.63	PK	Ν		
6	10.1895	29.00	20.05	60.00	31.00	8.95	PK	Ν		

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

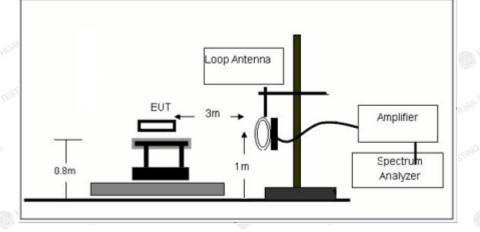
Level=Test receiver reading + correction factor

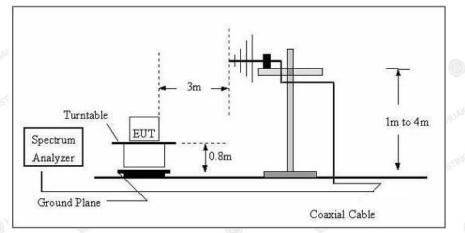
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4. RADIATED EMISSIONS

4.1. Block Diagram of Test Setup





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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.

ship spundus emissions are permitted in any of the nequency t								
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:

Limit	Distance
(dBuV/m)	(m)
20log(2400/F(KHz))+40log(300/3)	3
20log(24000/F(KHz))+40log(30/3)	3
69.5	3
40.0	3
43.5	3
46.0	3
54.0	3
	(dBuV/m) 20log(2400/F(KHz))+40log(300/3) 20log(24000/F(KHz))+40log(30/3) 69.5 40.0 43.5 46.0

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								
TESTING WAKTESTIN BE	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: All the test modes completed for test. Only the worst result (ANT1+ANT2+ANT3) was reported as below:

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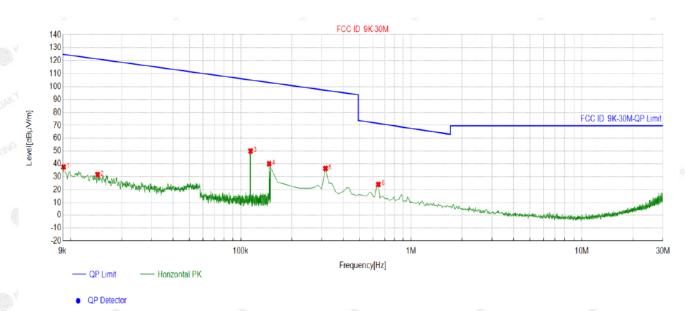


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For 9KHz - 30MHz

Coaxial:



Suspe	cted List					
NO	Freq.	Factor	Reading	Level	Limit	Margin
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]
1	0.0091	-13.33	50.96	37.63	121.66	84.03
2	0.0144	-15.38	47.01	31.63	119.33	87.70
3	0.1142	-17.18	67.18	50.00	105.13	55.13
4	0.1467	-17.25 57.35		40.10	103.12	63.02
5	0.3143	-17.32	53.78	36.46	97.20	60.74
6	0.6428	-17.19	.19 41.26 24.07 71.38		47.31	

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

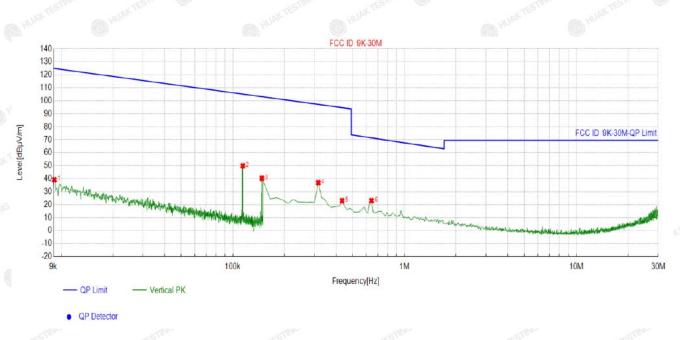
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Coplanar:



Suspected List

	Suspe									
Ś	NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]			
	1	0.0091	-13.33	52.51	39.18	121.66	82.48			
	2	0.1142	-17.18	67.09 49.91 105.13		55.22				
	3	0.1477	-17.26	57.53	40.27	103.12	62.85			
2	4	0.3143	-17.32	54.26	36.94	97.20	60.26			
2	5	0.4337	-17.23	40.23	23.00	94.69	71.69			
	6	0.6428	-17.19	40.29	23.10	71.38	48.28			

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

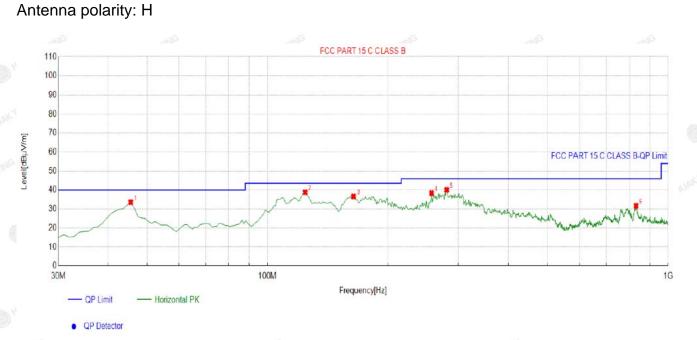
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FICATION

For 30MHz-1GHz



Suspected List										
		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delerity
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
	1	45.5355	-13.65	47.21	33.56	40.00	6.44	100	36	Horizontal
	2	124.1842	-17.72	56.53	38.81	43.50	4.69	100	191	Horizontal
	3	163.9940	-20.01	56.56	36.55	43.50	6.95	100	163	Horizontal
	4	257.2072	-13.49	51.84	38.35	46.00	7.65	100	187	Horizontal
	5	280.5105	-13.23	53.35	40.12	46.00	5.88	100	80	Horizontal
	6	831.0511	-2.45	34.12	31.67	46.00	14.33	100	359	Horizontal

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

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Susp	Suspected List									
NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polarity	
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]		
1	49.4194	-13.65	47.90	34.25	40.00	5.75	100	336	Vertical	
2	123.2132	-17.57	54.08	36.51	43.50	6.99	100	228	Vertical	
3	159.1391	-20.87	55.77	34.90	43.50	8.60	100	354	Vertical	
4	202.8328	-14.99	52.61	37.62	43.50	5.88	100	224	Vertical	
5	238.7588	-13.91	50.58	36.67	46.00	9.33	100	197	Vertical	
6	512.5726	-7.94	41.02	33.08	46.00	12.92	100	27	Vertical	

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

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5. ANTENNA REQUIREMENT

Standard Applicable

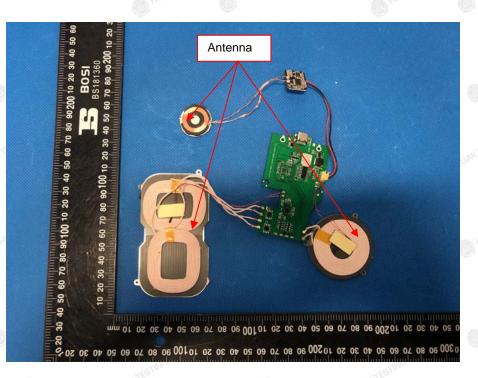
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

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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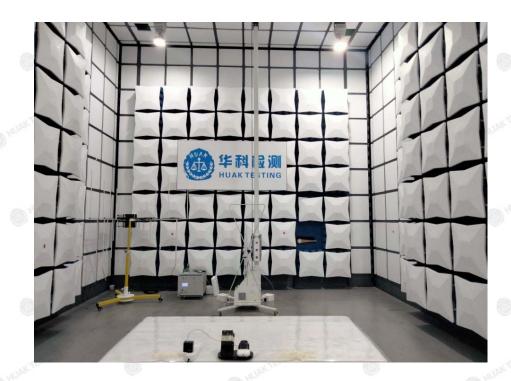
Report No.: HK2204021390-1E

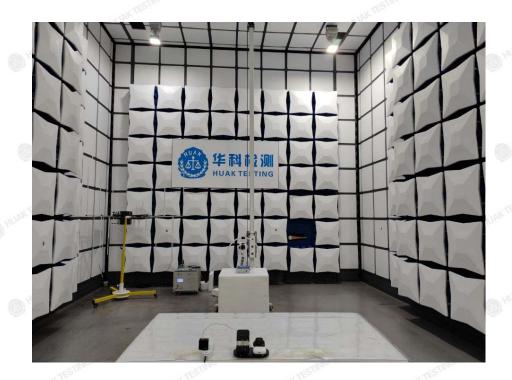
PRO'

*

6. PHOTOGRAPH OF TEST

Radiated Emission





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PAL

Conducted Emissions



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TIFICATION

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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