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FCC TEST REPORT

Test report On Behalf of Shenzhen DXR Electronic Technology Co., Limited (Dongguan Branch) For 3-in-1 Charging Station with LED Light Model No.: WAC-DL018 FCC ID: 2A22V-DL018



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:
 Mar. 22, 2022 ~ Mar. 31, 2022

 Date of Report:
 Mar. 31, 2022

 Report Number:
 HK2203221098-1E

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TEST RESULT CERTIFICATION

Applicant's name:	Shenzhen DXR Electronic Technology Co., Limited (Dongguan Branch)
Address	4th Floor, #5 Building, #189, Yongji Industrial, Zhuweitian, Fenggang Town, Dongguan, China
Manufacture's Name	Shenzhen DXR Electronic Technology Co., Limited (Dongguan Branch)
Address	4th Floor, #5 Building, #189, Yongji Industrial, Zhuweitian, Fenggang Town, Dongguan, China
Product description	
Trade Mark:	* WEST & ARROW
Product name:	3-in-1 Charging Station with LED Light
Model and/or type reference .:	WAC-DL018
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	511
Date of Issue	:
Test Result	:

Mar. 22, 2022 ~ Mar. 31, 2022 Mar. 31, 2022 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	Mar. 31, 2022	Jason Zhou
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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:	3-in-1 Charging Station with LED Light	HUNKTES	HUNKTES
Model Name:	WAC-DL018		
Series Models:	N/A	AKTESTING	
Model Difference:	N/A	O HU	HUAKTESTA
Trade Mark:	· WEST & ARROW	STAG	Ð
FCC ID:	2A22V-DL018	UPIK I	- NG
Antenna Type:	Coil Antenna	- WUAK TESTIN	HUAKTES
Antenna Gain:	0dBi	0.	
Operation frequency:	111.5KHz~205KHz		
Test frequency:	137KHz	AK TESTING	W TESTING
Number of Channels:	1 0 1000	O How	O How
Modulation Type:	ASK	TESTING	
	Input: DC 12V 2A	C HUAR	AK TESTING
	Wireless Charger Output #1 (Phone):	5W, 7.5W, 10W	
Power Source:	Wireless Charger Output #2 (Airpods):	5W	
	Wireless Charger Output #3 (Apple Wa	atch): 2W	
	Wireless Charger Output Total: 18W		
	Input: DC 12V 2A		
	Wireless Charger Output #1 (Phone):	5W, 7.5W, 10W	
Power Rating:	Wireless Charger Output #2 (Airpods):	5W	
	Wireless Charger Output #3 (Apple Wa	atch): 2W	
	Wireless Charger Output Total: 18W		

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2.2. Carrier Frequency of Channels

Operation F	Frequency each of channel	TEST HUAKTEL	AK TEST.	HUAKTES
Channel	Frequency		0"	()
1	137KHz			

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

2.4 Test mode

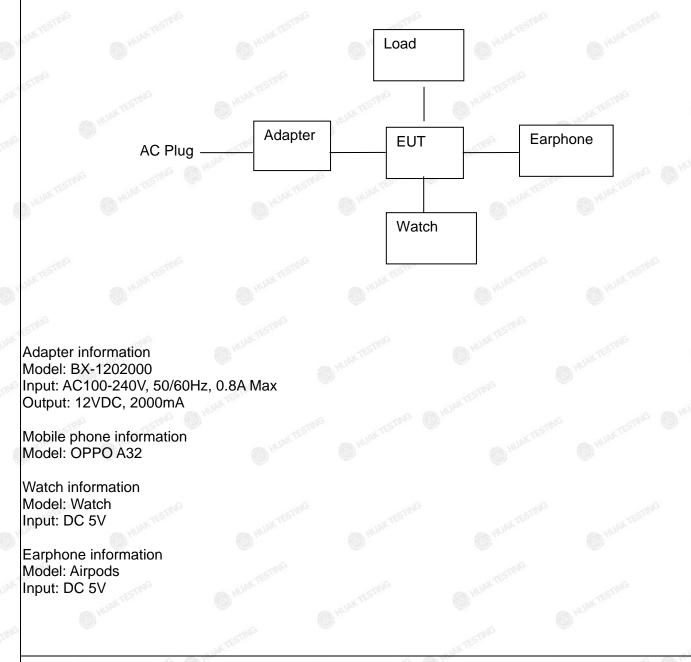
G	no m	STING (D)	MG	STINC
HUAKTE	EUT Mode	Descr	iption	HUAKTES
<u>e</u>		Wireless Charger Ou	utput #1 setting 1	ow
	ANT 1	Wireless Charger Ou	tput #1 setting 7	.5W
. ox T	ST NG	Wireless Charger O	utput #1 setting 8	5W
O HOM	ANT 2	Wireless Charger O	utput #2 setting {	5W
	ANT 3	Wireless Charger O	utput #3 setting 2	2W
a man resince	ANT 1+ANT 2	Wireless Charger Out Wireless Charger O		AX IL
Charging	ANT 1+ANT 3	Wireless Charger Out Wireless Charger O		
O HUANTES	ANT 2+ANT 3	Wireless Charger Output Charger Output		Wireless
C HUNKT	ANT1+ANT2+ANT3	Wireless Charger Out Wireless Charger Output Charger Output	#2 setting 5W +	

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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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HUAK TESTING

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2.5. 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 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 Antenna	Schwarzbeck	VULB9163	HKE-012	Feb. 18, 2022	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 18, 2022	1 Year
10.	Horn Antenna	Schewarzbeck	9120D	6 HKE-013	Feb. 18, 2022	1 Year
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Feb. 18, 2022	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Feb. 18, 2022	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JS1120-B Version	HKE-083	Feb. 18, 2022	[©] Ν/Α
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. 17, 2020	3 Year

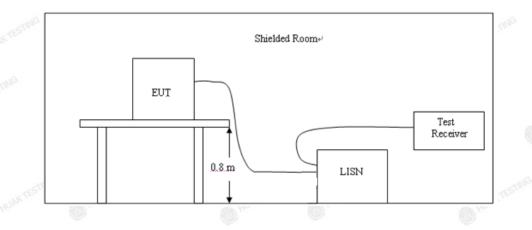
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- 3. CONDUCTED EMISSION TEST
 - 3.1. Block Diagram of Test Setup



3.2. Conducted Power Line Emission Limit

According to FCC Part 15.207(a)

F	M	aximum RF L	ine Voltage (d	BμV)	
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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3.4. Test Result

Test Specification: Line

PASS

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

FCC PART 15 C CLASS B(L) 130 120 110 100 90 80 Level[dBµV] 70 60 50 40 30 20 10 150k 1M 30M 10M Frequency[Hz] **QP** Limit QP Detector AV Detector

Sus	Suspected List								
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре	
1	0.2175	50.17	20.05	62.91	12.74	30.12	PK	L	
2	0.6135	43.26	20.05	56.00	12.74	23.21	PK	L	
3	1.4325	44.17	20.10	56.00	11.83	24.07	PK	L	
4	2.3820	43.64	20.18	56.00	12.36	23.46	PK	L	
5	15.7380	35.48	19.97	60.00	24.52	15.51	PK	L	
6	24.6075	40.38	20.24	60.00	19.62	20.14	PK	L	

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

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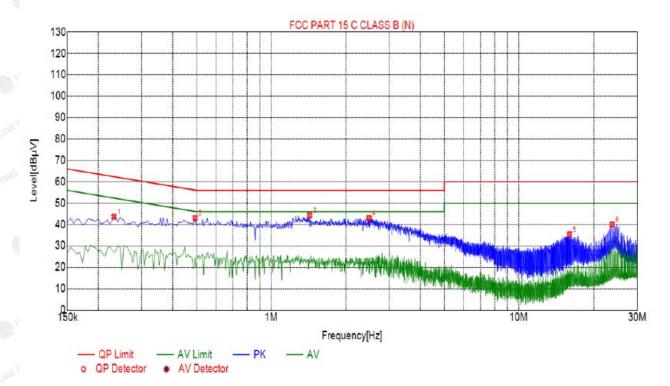


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FICATION

Test Specification: Neutral



Suspected List	
----------------	--

NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре
1	0.2310	43.60	20.03	62.41	18.81	23.57	PK	N
2	0.4920	43.05	20.04	56.13	13.08	23.01	PK	Ν
3	1.4280	44.31	20.11	56.00	11.69	24.20	PK	Ν
4	2.4855	43.08	20.19	56.00	12.92	22.89	PK	Ν
5	15.9315	35.36	19.98	60.00	24.64	15.38	PK	Ν
6	23.6805	40.02	20.21	60.00	19.98	19.81	PK	N

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

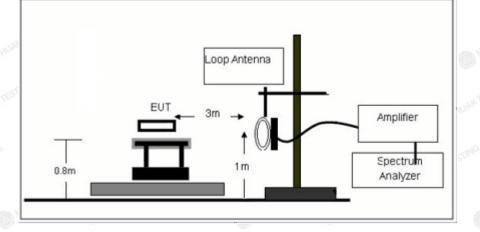
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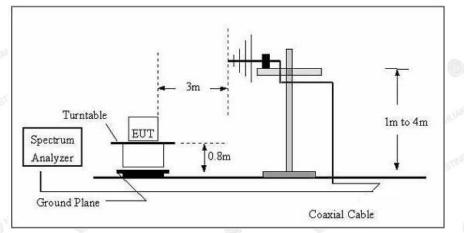


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4. RADIATED EMISSIONS

4.1. Block Diagram of Test Setup





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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.

ing spundus enn	ssions are permitte	su in any of the	s nequency r
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 Limit		Distance
(MHz)	(dBuV/m)	(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.

and and and an	ransmitter Spurious i	Emissions 9KHz-30MHz	NG		
TESTING MARTES!	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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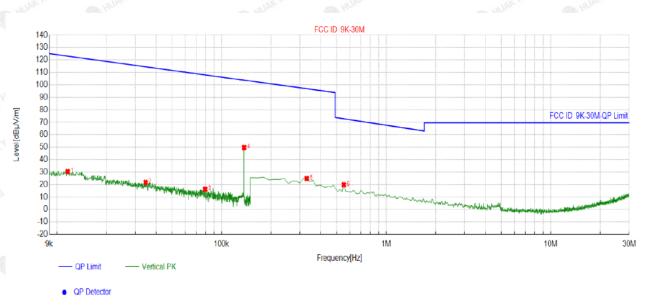
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For 9KHz - 30MHz



Sus	Suspected List								
	Fre	eq.	Factor	Reading	Level	Limit	Margin		
NO	. [MI	Hz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]		
1	0.0	116	-14.78	45.21	30.43	123.01	92.58		
2	0.0	346	-16.49	38.12	21.63	114.49	92.86		
3	0.0	794	-17.06	33.26	16.20	108.01	91.81		
4	0.13	370	-17.23	66.91	49.68	103.75	54.07		
5	0.3	292	-17.31	42.11	24.80	96.90	72.10		
6	0.5	532	-17.25	37.03	19.78	72.75	52.97		

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

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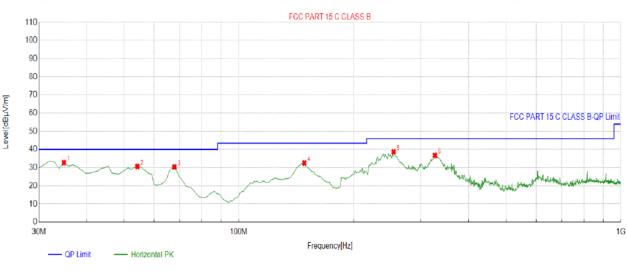
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Report No.: HK2203221098-1E

For 30MHz-1GHz

Antenna polarity: H



QP Detector

	Suspected List									
<	NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Deleritu
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
	1	34.8549	-16.15	48.89	32.74	40.00	7.26	100	64	Horizontal
2	2	54.2743	-14.30	45.00	30.70	40.00	9.30	100	20	Horizontal
	3	67.8679	-17.13	47.51	30.38	40.00	9.62	100	108	Horizontal
	4	148.4585	-18.98	51.53	32.55	43.50	10.95	100	32	Horizontal
	5	254.2943	-13.45	52.10	38.65	46.00	7.35	100	306	Horizontal
	6	326.1461	-11.79	48.56	36.77	46.00	9.23	100	36	Horizontal

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

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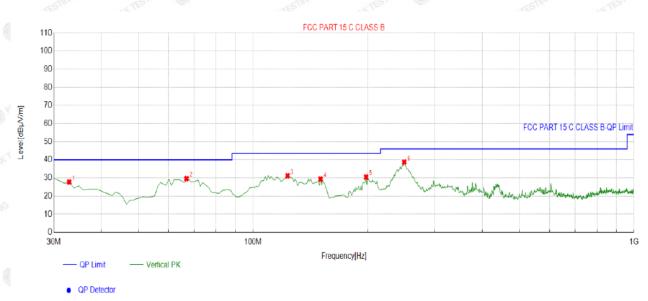
TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



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Antenna polarity: V



Suspe	Suspected List									
NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delerity	
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	32.9129	-16.22	43.95	27.73	40.00	12.27	100	315	Vertical	
2	66.8969	-16.89	46.51	29.62	40.00	10.38	100	130	Vertical	
3	123.2132	-17.57	48.77	31.20	43.50	12.30	100	272	Vertical	
4	150.4004	-18.91	48.28	29.37	43.50	14.13	100	1	Vertical	
5	197.9780	-15.25	45.68	30.43	43.50	13.07	100	161	Vertical	
6	249.4394	-13.42	52.13	38.71	46.00	7.29	100	15	Vertical	

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

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5. ANTENNA REQUIREMENT

Standard Applicable

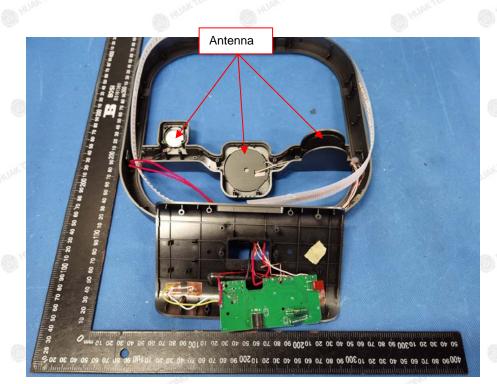
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

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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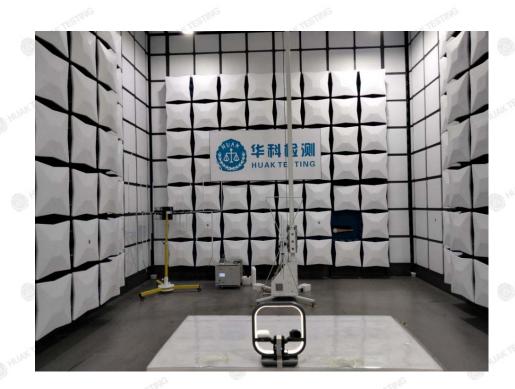


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6. PHOTOGRAPH OF TEST

Radiated Emission





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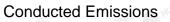
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7. PHOTOS OF THE EUT

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

--End of test report-

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