



# **FCC TEST REPORT**

Test report
On Behalf of
3i Inc.
For
PIVO Remote Control
Model No.: PV-I1R02

FCC ID: 2AS3Q-PVI1R02

Prepared for: 3i Inc.

3-321 523, Dongdaegu-ro, Dong-gu, Daegu, 41228 South Korea

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: Aug. 12, 2021 ~ Aug. 19, 2021

Date of Report: Aug. 19, 2021
Report Number: HK2108112815-E



## TEST RESULT CERTIFICATION

	IESI KES	OLI CERTIFIC	ATION	
Applicant's name	: 3i Inc.			
Address	: 3-321 52	3, Dongdaegu-ro, D	ong-gu, Daegu, 412	28 South Korea
Manufacture's Name	: Shenzher	n Vitalitim Technolo	gy Co L.T.D.	
Address	: Tairan 5		ng Building, Tianan D Community, Shatou	
Product description				
Trade Mark:	PIVO,	bıvo		
Product name	: PIVO Rei	mote Control		
Model and/or type reference	ce : PV-I1R02	2		
Standards		es and Regulations F 3.10: 2013	Part 15 Subpart C Se	ection 15.249
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Date of Test	· Supplies			
Date (s) of performance of	tests:	Aug. 12, 2021 ~ Au	g. 19, 2021	
Date of Issue	HUAKTEE	Aug. 19, 2021		
Test Result	·····:	Pass		
Testing E	Engineer :	Lang	- Dian	
		(Gary	Qian)	
Technica	l Manager :	Zden	Hu	
		(Eder	1 Hu)	
Authorize	ed Signatory:	Jason	Ynsu	
		3 STING	STING	

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(Jason Zhou)





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

AD.	- NO, WILL I.	and AD'	CONT.	
Revision	Description	Issued Data	Remark	
Revision 1.0	Initial Test Report Release	Aug. 19, 2021	Jason Zhou	
TESTING	TE TIME	ESTING TESTIN	5 TESTING	
HUAN	Why.	HUME	HUAL.	

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## 1. TEST SUMMARY

## 1.1 TEST PROCEDURES AND RESULTS

DESCRIPTION OF TEST	Din Din	RESULT
CONDUCTED EMISSIONS TEST	§ 15.207	N/A
RADIATED EMISSION TEST	§ 15.249 (a) / §15.209	COMPLIANT
BAND EDGE	§ 15.249 (d)/ §15.209	COMPLIANT
OCCUPIED BANDWIDTH MEASUREMENT	§ 15.215 (c)	COMPLIANT
ANTENNA REQUIREMENT	§ 15.203	COMPLIANT

## 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 = 2.23dB, k=2
Radiated emission expanded uncertainty(9kHz-30MHz) = 3.08dB, k=2
Radiated emission expanded uncertainty(30MHz-1000MHz) = 4.42dB, k=2
Radiated emission expanded uncertainty(Above 1GHz) = 4.06dB, k=2

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## 2. GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF EUT

Equipment	PIVO Remote Control	-TNG
Model Name	PV-I1R02	HUAKTES
Serial Model	N/A	
Model Difference	N/A	G NG
FCC ID	2AS3Q-PVI1R02	STITUS HUAKTES !
Antenna Type	PCB Antenna	(a)
Antenna Gain	2dBi	
Equipment	PIVO Remote Control	G AKTESTING
Operation frequency	2440MHz	O HUN
Number of Channels	1CH	
Modulation Type	GFSK GFSK	N TESTING
Power Source	DC 3V from Battery	(1) HOLE
Power Rating	DC 3V from Battery	

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#### 2.2 Carrier Frequency of Channels

Description of Channel:					
Channel	Frequency (MHz)				
1	2440				

## 2.3 Operation of EUT during testing

**Operating Mode** 

The mode is used: Transmitting mode

Channel: 2440MHz

## 2.4 DESCRIPTION OF TEST SETUP

Operation of EUT during Radiation testing:

EUT

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) 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.
K TESTING	L.I.S.N.	TESTING	TEST	JG	STING	TESTING
1.	Artificial Mains	R&S	ENV216	HKE-002	Dec. 10, 2020	1 Year
ang	Network	TING		TIN		
2.	Receiver	R&S	ESR-7	HKE-010	Dec. 10, 2020	<sup>6</sup> 1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 10, 2020	1 Year
4	Spectrum analyzer	R&S	FSP40	HKE-025	Dec. 10, 2020	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 10, 2020	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Dec. 10, 2020	1 Year
7. mc	EMI Test Receiver	Rohde & Schwarz	ESCI 7	HKE-010	Dec. 10, 2020	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Dec. 10, 2020	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Dec. 10, 2020	1 Year
10.	Horn Antenna	Schewarzbeck	9120D	HKE-013	Dec. 10, 2020	1 Year
11.	Pre-amplifier	EMCI	EMC051845S E	HKE-015	Dec. 10, 2020	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Dec. 10, 2020	1 Year
13.	EMI Test Software	Tonscend	JY3120-B Version	HKE-083	Dec. 10, 2020	N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Dec. 10, 2020	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 10, 2020	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Dec. 10, 2020	<sup>0</sup> 1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Dec. 10, 2020	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 17, 2020	3 Year
19.	High gain antenna	Schewarzbeck	LB-180400KF	HKE-054	Dec. 10, 2020	1 Year

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## 3. CONDUCTED EMISSIONS TEST

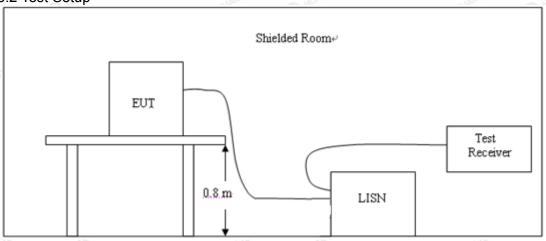
#### 3.1 Conducted Power Line Emission Limit

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following

Fraguency	Maximum RF Line Voltage (dBμV)					
Frequency (MHz)	CLAS	SS A	CLASS B			
(111112)	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		

<sup>\*</sup> Decreasing linearly with the logarithm of the frequency
For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

## 3.2 Test Setup



#### 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

Not applicable

Note: EUT power supply by DC Power, so this test item not applicable

## 4 RADIATED EMISSION TEST

#### 4.1 Radiation Limit

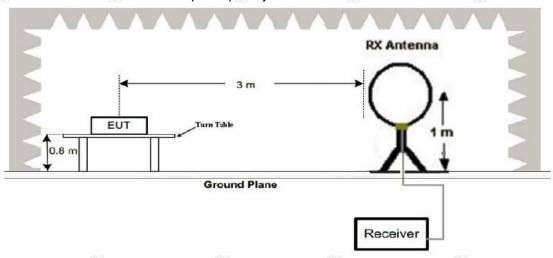
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
30-88	3	40	100
88-216	3TEST	43.5	150
216-960	3	46	200
Above 960	3	54	500

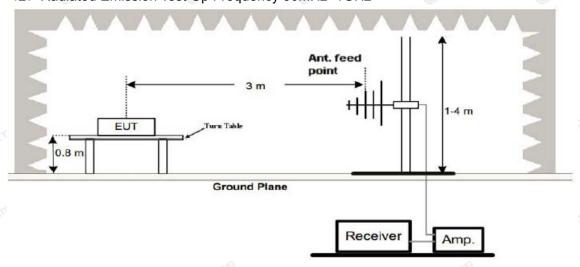
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

## 4.2 Test Setup

#### (1) Radiated Emission Test-Up Frequency Below 30MHz



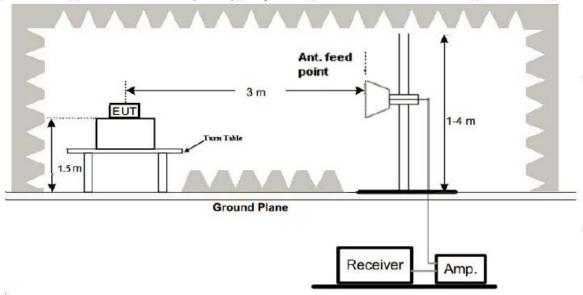
## (2) Radiated Emission Test-Up Frequency 30MHz~1GHz



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## (3) Radiated Emission Test-Up Frequency Above 1GHz



#### 4.3 Test Procedure

- 1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The test frequency range from 9KHz to 25GHz per FCC PART 15.33(a).

#### Note

For battery operated equipment, the equipment tests shall be performed using a new battery.

#### 4.4 Test Result

**PASS** 

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Below 1GHz Test Results:

Antenna polarity: H



QP Detector

Suspe	cted List								
NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delevite
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	50.3904	-13.71	24.84	11.13	40.00	28.87	100	56	Horizontal
2	97.9680	-15.74	25.42	9.68	43.50	33.82	100	226	Horizontal
3	138.7487	-19.10	28.26	9.16	43.50	34.34	100	297	Horizontal
4	230.9910	-14.27	25.59	11.32	46.00	34.68	100	238	Horizontal
5	325.1752	-11.84	25.25	13.41	46.00	32.59	100	230	Horizontal
6	578.5986	-6.56	26.06	19.50	46.00	26.50	100	234	Horizontal

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

Antenna polarity: V



		400 641								
Sı	ıspe	cted List								
N	0	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delevito
IN	0.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
	1	45.5355	-13.65	28.64	14.99	40.00	25.01	100	357	Vertical
	2	70.7808	-17.81	31.50	13.69	40.00	26.31	100	196	Vertical
	3	170.7908	-17.26	26.04	8.78	43.50	34.72	100	299	Vertical
	4	311.5816	-12.53	24.86	12.33	46.00	33.67	100	10	Vertical
	5	554.3243	-6.84	25.44	18.60	46.00	27.40	100	331	Vertical
	6	799.9800	-3.12	26.48	23.36	46.00	22.64	100	78	Vertical

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

#### Remark:

- (1) Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHz was verified, and no any emission was found except system noise floor.
- (2) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.



Above 1 GHz Test Results: CH (2440MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
2440	100.23	-5.65	94.58	114	<sub>6</sub> -19.42	peak
2440	84.06	-5.65	78.41	94	-15.59	AVG
4880	57.23	-3.43	53.8	74	-20.2	peak
4880	39.85	-3.43	36.42	54 STING	-17.58	AVG
7320	56.03	-0.75	55.28	74	-18.72	peak
7320	37.05	-0.75	36.3	54	-17.7	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

#### Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	O HO.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2440	100.31	-5.65	94.66	114	-19.34	peak
2440	81.72	-5.65	76.07	94	-17.93	AVG
4880	58.92	-3.43	55.49	74	-18.51	peak
4880	43.73	-3.43	40.3	54	-13.7	AVG
7320	55.88	-0.75	55.13	74	-18.87	peak
7320	41.25	-0.75	40.5	54	-13.5	AVG
Remark: Facto	or = Antenna Fac	tor + Cable L	oss – Pre-amplifier.			

#### Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) \* denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4)The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak

detection at frequency above 1GHz.

- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.
- (7)All modes of operation were investigated and the worst-case emissions are reported.



## **5 BAND EDGE**

#### 5.1 Limits

FCC PART 15.249(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

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## 5.2 Test Procedure

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW to 1MHz and VBM to 3MHz to measure the peak field strength and set RBW to 1MHz and VBW to 10Hz to measure the average radiated field strength. The conducted RF band edge was measured by using a spectrum analyzer. Set span wide enough to capture the highest in-band emission and the emission at the band edge. Set RBW to 1MHz and VBW to 3MHz, to measure the conducted peak band edge.



## 5.3 Test Result

## **PASS**

Radiated Band Edge Test:

Operation Mode: TX CH Low (2440MHz)

Horizontal (Worst case)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310	57.08	-5.81	51.27	74	-22.73	peak
2310	OKTESTING OF THE	-5.81	ESTING / NY TESTING	54	TESTING	AVG
2390	54.26	-5.84	48.42	74	-25.58	peak
2390	1	-5.84	1	54	/	AVG
2400	52.68	-5.84	46.84	74	-27.16	peak
2400	/	-5.84	D HO	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

## Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310	57.33	-5.81	51.52	74	-22.48	peak
2310	I G	-5.81	1	54	) me	AVG
2390	54.12	-5.84	48.28	74 <sub>HU</sub>	-25.72	peak
2390	1	-5.84	I	54	1	AVG
2400	55.68	-5.84	49.84	74 HUMETER	-24.16	peak
2400	/	-5.84	HUAN	54	1 Maria	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

C



Operation Mode: TX CH High (2440MHz)

Horizontal (Worst case)

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data W TESTING	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type	
2483.50	56.74	-5.65	51.09	74	-22.91	peak	
2483.50	1	-5.65	HUANTEST	54	1	AVG	
2500.00	54.96	-5.65	49.31	74	-24.69	peak	
2500.00	TESTING / WHULE	-5.65	THE I TESTING	54	TIME	AVG	

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

## Vertical:

200.000		100.000	100.000	200.0000		200.0000
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.50	56.55	-5.65	50.9	74	-23.1	peak
2483.50	I HUAN	-5.65	1	54	1	AVG
2500.00	54.26	-5.65	48.61	74	-25.39	peak
2500.00	1	-5.65	1	54	1	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.





## 6 OCCUPIED BANDWIDTH MEASUREMENT

#### 6.1 Test Setup

Same as Radiated Emission Measurement

## 6.2 Test Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation.
- 3. Based on ANSI C63.10 section 6.9.2: RBW= 100KHz. VBW= 300 KHz, Span=10MHz.
- 4. The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.

## 6.3 Measurement Equipment Used

Same as Radiated Emission Measurement

## 6.4 Test Result

#### **PASS**

Frequency	20dB Bandwidth (MHz)	Result	
2440 MHz	4.003	PASS	

CH: 2440MHz



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## 7 ANTENNA REQUIREMENT

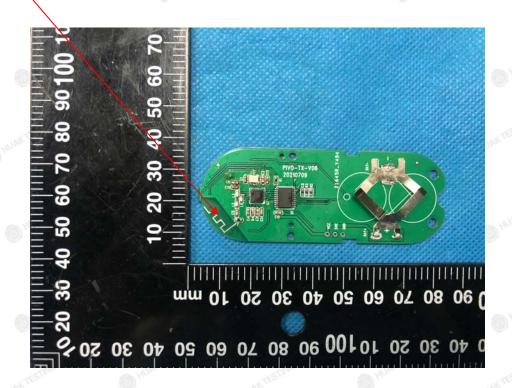
## **Standard Applicable**

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.

#### **Antenna Connected Construction**

The antenna used in this product is a PCB Antenna which permanently attached. It conforms to the standard requirements, The directional gains of antenna used for transmitting is 2dBi.

## **ANTENNA**



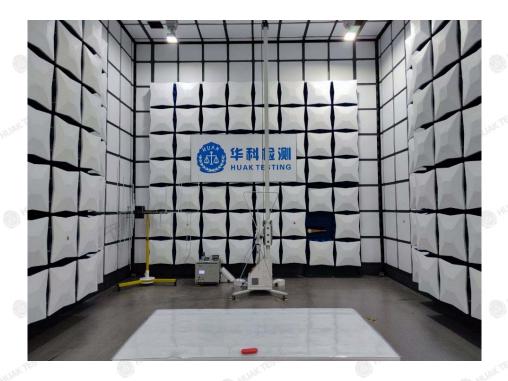
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HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



## **8 PHOTOGRAPH OF TEST**

## 8.1 Radiated Emission





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HUAK Testing Lab TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



## 9 PHOTOS OF THE EUT

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

