

Page 1 of 20

# FCC TEST REPORT

# Test report On Behalf of SHENZHEN NITO POWER SOURCE TECHNOLOGY CO.,LTD. For Magnetic Wireless Power Bank Model No.: JR-W030 FCC ID: 2AWL2-JR-W030

**Prepared For :** 

SHENZHEN NITO POWER SOURCE TECHNOLOGY CO.,LTD. 201, No.8 Building, Jinfanghua Electricity Industrial park, Bantian St., Longgang Dist., Shenzhen, 518129 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:
 Nov. 07, 2022 ~ Nov. 14, 2022

 Date of Report:
 Nov. 14, 2022

 Report Number:
 HK2210314825-1E

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# TEST RESULT CERTIFICATION

Applicant's name:	SHENZHEN NITO POWER SOURCE TECHNOLOGY CO., LTD.
Address	201, No.8 Building, Jinfanghua Electricity Industrial park, Bantian St., Longgang Dist., Shenzhen, 518129 China
Manufacture's Name	Dongguan Xiaogu Electronic Technology Co.,Ltd
Address	No.2, LongPu Road, TangXia Town, DongGuan, Guangdong Province, China
Product description	
Trade Mark:	JOYROOM
Product name:	Magnetic Wireless Power Bank
Model and/or type reference :	JR-W030

Standards ...... FCC CFR 47 PART 18

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Date of Test	
Date (s) of performance of tests:	Nov. 07, 2022 ~ Nov. 14, 2022
Date of Issue:	Nov. 14, 2022
Test Result:	Pass

Testing Engineer

(Gary Qian)

Technical Manager

(Eden Hu)

Authorized Signatory:

(Jason Zhou)

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Page 3 of 20



### Table of Contents

Page

5

5

5 5

6

7

7

8

9

9

9

12

12

12

13

17

18

20

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

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# \*\* Modified History \*\*

Revision	Description	Issued Data	Remark	
Revision 1.0	Initial Test Report Release	Nov. 14, 2022	Jason Zhou	
TESTING	The	restino restin	TESTING	
HUAN	HUAT	HUAN	HUPAN	

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Page 5 of 20

### 1. TEST SUMMARY

1.1. Test Procedures And Results

DESCRIPTION OF TEST CONDUCTED EMISSIONS TEST RADIATED EMISSION TEST SECTION NUMBER 18.307 18.305 RESULT 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

	5		
Conducted Emissio	n Expanded Uncertainty	16 <del>–</del>	2.71dB, k=2
Radiated emission	expanded uncertainty(9kHz-30MHz)	=	3.90dB, k=2
Radiated emission	expanded uncertainty(30MHz-1000N	/Hz) =	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

Olympic Olympi	300 - 300	ang
Equipment:	Magnetic Wireless Power Bank	
Model Name:	JR-W030	
Series Models:	N/A	
Model Difference:	N/A Municipal One was the second of the seco	
Trade Mark:	JOYROOM	
FCC ID:	2AWL2-JR-W030	NG R
Antenna Type:	Coil Antenna	
Antenna Gain:	0dBi	
Operation frequency:	111.5KHz~205KHz	
Test frequency:	113KHz	STING
Number of Channels:	1 0 m 0 m 0 m 0 m	
Modulation Type:	ASK	
Power Source:	Battery Capacity: 6000mAh Type-C Input: DC 5V/2.4A 9V/2.0A 12V/1.5A Type-C Output: DC 5V/2.4A 9V/2.2A 12V/1.67A Wireless Output: 5W/7.5W/10W/15W	nic (
	Multi-port Output: 5V/3A Max Battery Capacity: 6000mAh	
	Type-C Input: DC 5V/2.4A 9V/2.0A 12V/1.5A	
Power Rating:	Type-C Output: DC 5V/2.4A 9V/2.2A 12V/1.67A	
	Wireless Output: 5W/7.5W/10W/15W	
	Multi-port Output: 5V/3A Max	

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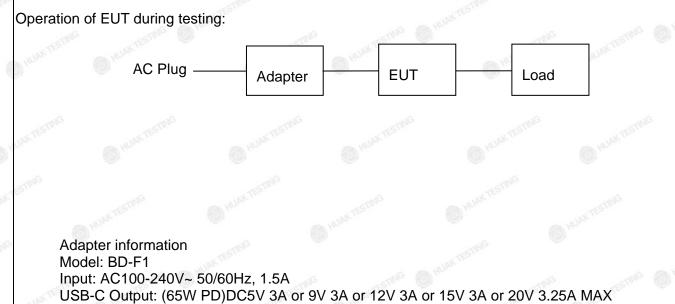


### 2.2. Carrier Frequency of Channels

Operation F	Frequency each of channel	MAKTESTIN	HUAKTES	MAKTESTIN	HUAKTES
Channel	Frequency	0		0	<b>O</b>
1	113KHz				

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

### 2.4. Description of Test Setup



USB-A Output: DC 5V 2.4A

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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Report No.: HK2210314825-1E

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### 2.5. Measurement Instruments List

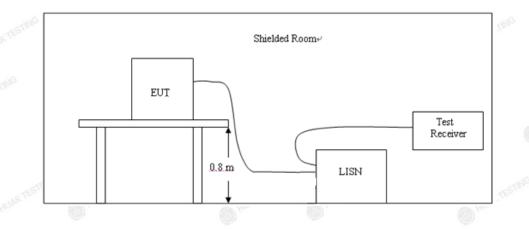
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interva
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Feb. 18, 2022	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Feb. 18, 2022	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	1 Year
4.	Spectrum analyzer	R&S	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	N/A	<sup>©</sup> 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. 09, 2021	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 18.307(b)

<b>F</b>	M	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 §18.307 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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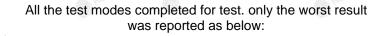
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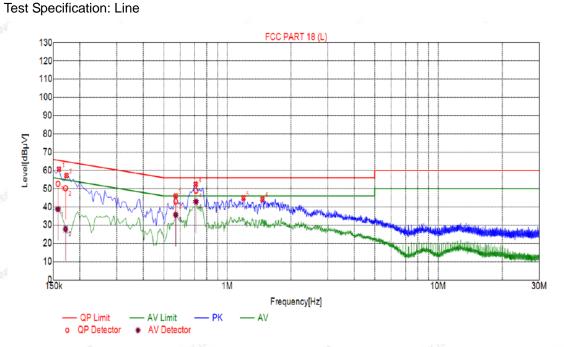


Page 10 of 20

# 3.4. Test Result

PASS





Sus	Suspected List											
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре				
1	0.1590	60.72	20.01	65.62	4.90	40.71	PK	L				
2	0.1725	57.21	20.04	64.91	7.70	37.17	PK	L				
3	0.5685	46.05	20.05	56.00	9.95	26.00	PK	L				
4	0.7080	52.41	20.05	56.00	3.59	32.36	PK	L				
5	1.1940	44.85	20.09	56.00	11.15	24.76	PK	L				
6	1.4685	44.17	20.10	56.00	11.83	24.07	РК	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]	Туре
	1	0.1574	20.01	52.63	65.60	12.97	32.62	38.77	55.60	16.83	18.76	L
5	2	0.1708	20.03	50.24	64.92	14.68	30.21	27.82	54.92	27.10	7.79	L
<sup>S</sup>	3	0.5692	20.05	42.98	56.00	13.02	22.93	35.70	46.00	10.30	15.65	L
	4	0.7104	20.05	48.97	56.00	7.03	28.92	42.93	46.00	3.07	22.88	L

Remark: Margin = Limit - Level

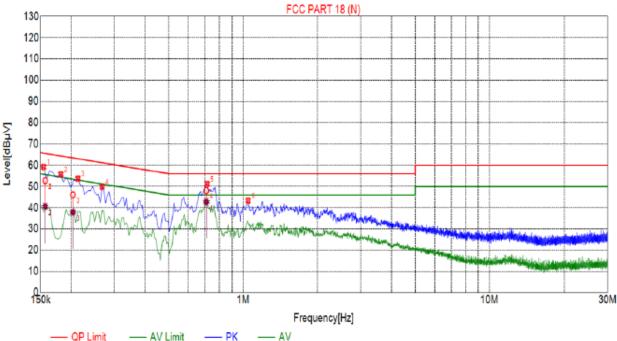
Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

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#### Test Specification: Neutral



QP	Detector	AV Detector

Sus	Suspected List										
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре			
1	0.1545	59.20	20.03	65.81	6.61	39.17	PK	N			
2	0.1815	55.77	20.06	64.58	8.81	35.71	PK	N			
3	0.2130	53.72	20.05	63.23	9.51	33.67	PK	N			
4	0.2670	49.90	20.03	61.26	11.36	29.87	PK	N			
5	0.7125	51.25	20.05	56.00	4.75	31.20	PK	N			
6	1.0455	43.37	20.07	56.00	12.63	23.30	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]	Туре
1	0.1566	20.02	52.79	65.64	12.85	32.77	40.63	55.64	15.01	20.61	N
2	0.1562	20.02	52.85	65.66	12.81	32.83	40.52	55.66	15.14	20.50	N
3	0.2032	20.04	46.09	63.48	17.39	26.05	37.86	53.48	15.62	17.82	N
4	0.7073	20.05	48.05	56.00	7.95	28.00	42.75	46.00	3.25	22.70	N

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

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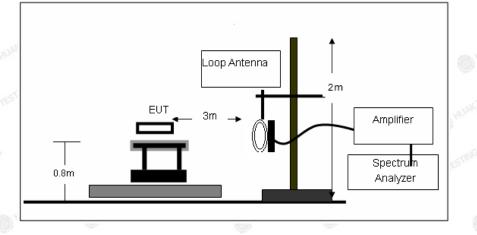
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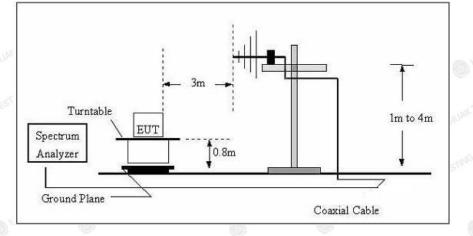
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# 4. RADIATED EMISSIONS

4.1. Block Diagram of Test Setup





# 4.2. Rules and specifications

Except as provided elsewhere in this Subpart 18.305 (b), the field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following table:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)	
(miscellaneous)					
	Any non- ISM frequency	Below 500 500 or more	15 15 × SQRT(power/500)	300 <sup>1</sup> 300	

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#### Remark:

(1) Emission level dBuV/m for 0.009~30MHz = 20log (15) + 40log (300/3) dBuV/m;

(2) Calculated according FCC 18.305.

(3) The smaller limit shall apply at the cross point between two frequency bands.

(4) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

#### 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 measurements are extrapolated to 300m and 30m distance respectively, by 40dB/decade, 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: 15W) was reported as below:

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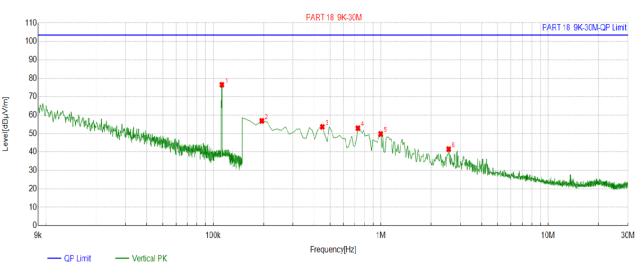
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Page 14 of 20

Report No.: HK2210314825-1E

For 9KHz - 30MHz



QP Detector

8	Suspected List										
	NO.	Freq.	Factor	Reading	Level	Limit	Margin				
1		[MHz]	[dB]	[dBµ∀/m]	[dBµ∨/m]	[dBµ∀/m]	[dB]				
	1	0.1127	13.80	62.21	76.01	103.50	27.49				
2	2	0.1948	13.67	43.20	56.87	103.50	46.63				
	3	0.4486	13.76	39.87	53.63	103.50	49.87				
	4	0.7324	13.88	39.04	52.92	103.50	50.58				
10	5	1.0012	14.11	35.69	49.80	103.50	53.70				
	6	2.5541	14.53	27.03	41.56	103.50	61.94				

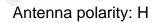
Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level

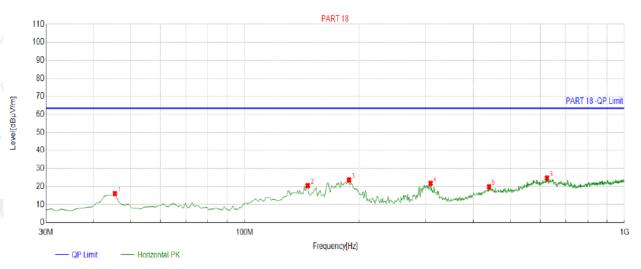
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# For 30MHz-1GHz





QP Detector

#### Suspected List

Caspo										
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	45.5355	-14.97	31.00	16.03	63.50	47.47	100	86	Horizontal	
2	146.5165	-18.53	38.99	20.46	63.50	43.04	100	57	Horizontal	
3	188.2683	-16.92	40.61	23.69	63.50	39.81	100	28	Horizontal	
4	308.6687	-11.85	33.58	21.73	63.50	41.77	100	153	Horizontal	
5	439.7498	-8.46	28.33	19.87	63.50	43.63	100	293	Horizontal	
6	625.2052	-4.37	29.04	24.67	63.50	38.83	100	91	Horizontal	

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

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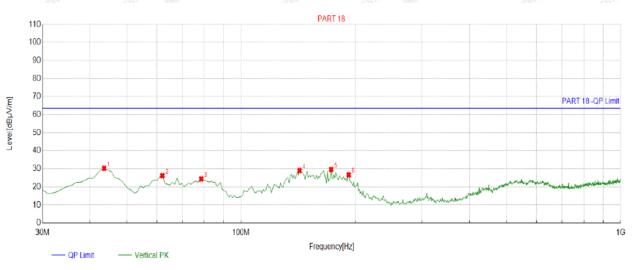
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Page 16 of 20

Report No.: HK2210314825-1E

Antenna polarity: V



QP Detector

Suspected List										
NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delevity	
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	43.5936	-15.10	45.35	30.25	63.50	33.25	100	78	Vertical	
2	62.0420	-14.19	40.35	26.16	63.50	37.34	100	99	Vertical	
3	78.5485	-17.29	41.68	24.39	63.50	39.11	100	147	Vertical	
4	142.6326	-18.24	47.24	29.00	63.50	34.50	100	75	Vertical	
5	172.7327	-16.80	46.48	29.68	63.50	33.82	100	1	Vertical	
6	192.1522	-16.75	43.45	26.70	63.50	36.80	100	139	Vertical	

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

Margin = Limit – Level

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#### Page 17 of 20

### 5. ANTENNA REQUIREMENT

#### 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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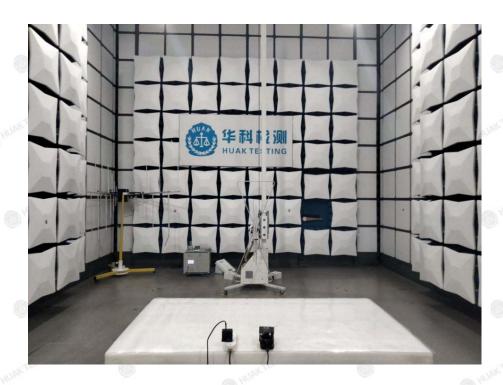
Page 18 of 20

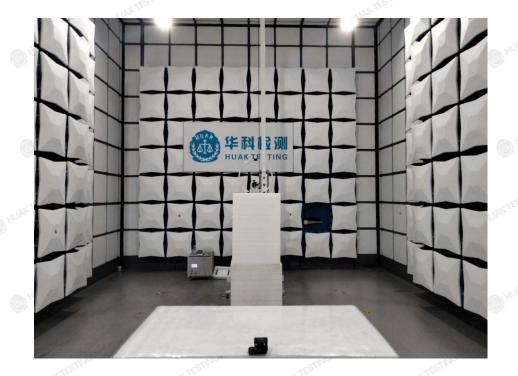
Report No.: HK2210314825-1E

'eu

## 6. PHOTOGRAPH OF TEST

**Radiated Emission** 





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Page 19 of 20

Conducted Emissions



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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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