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# **FCC Test Report**

Test Report On Behalf of ShenZhen Zhongyi Technology CO., Ltd. For Magport Tri-Fold Wireless Charger Model No.: EAC-MA24, M1096Q

FCC ID: 2A9Q9-EAC-MA24

Prepared For :

ShenZhen Zhongyi Technology CO., Ltd.

Room 401, No.4 Road One, Shangxue Science and Technology City, Xinxue Community, Bantian Street, Longgang District, Shenzhen, 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:
 Dec. 08, 2023 ~ Dec. 21, 2023

 Date of Report:
 Dec. 21, 2023

 Report Number:
 HK2312085969-1E

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### **Test Result Certification**

| Applicant's Name:               | ShenZhen Zhongyi Technology CO., Ltd.   |
|---------------------------------|---|
| Address:                        | Room 401, No.4 Road One, Shangxue Science and Technology<br>City, Xinxue Community, Bantian Street, Longgang District,<br>Shenzhen, China |
| Manufacturer's Name:            | ShenZhen Zhongyi Technology CO., Ltd.   |
| Address:                        | Room 401, No.4 Road One, Shangxue Science and Technology<br>City, Xinxue Community, Bantian Street, Longgang District,<br>Shenzhen, China |
| Product Description             |   |
| Trade Mark:                     | N/A mo mus () mus ()  |
| Product Name:                   | Magport Tri-Fold Wireless Charger   |
| Model and/or Type Reference:    | EAC-MA24, M1096Q  |
| Standards:                      | FCC CFR 47 PART 18  |
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| Date of Test                      |                               |
|-----------------------------------|-------------------------------|
| Date (s) of performance of tests: | Dec. 08, 2023 ~ Dec. 21, 2023 |
| Date of Issue                     | Dec. 21, 2023                 |
| Test Result                       | Pass                          |

Testing Engineer

lian

(Len Liao)

Technical Manager:

Guer Won

(Sliver Wan)

Authorized

Signatory

son thou

(Jason Zhou)

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# \*\* Modified History \*\*

|              |                             | (Scall /      |            |
|--------------|-----------------------------|---------------|------------|
| Revision     | Description                 | Issued Data   | Remark     |
| Revision 1.0 | Initial Test Report Release | Dec. 21, 2023 | Jason Zhou |
| STING        | TING STING                  | -STING -STIN  | G          |
| HUAK I       | - HUAK IL                   | HUAK          | HUAK       |

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Report No.: HK2312085969-1E

### 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 CA100229. Canada IC CAB identifier is CN0045. CNAS Registration Number is L9589.

### 1.3. Measurement Uncertainty

Measurement Uncertainty

Conducted Emission Expanded Uncertainty Radiated emission expanded uncertainty(9kHz-30MHz) Radiated emission expanded uncertainty(30MHz-1000MHz) Radiated emission expanded uncertainty(Above 1GHz)

- = 2.71dB, k=2
- = 3.90dB, k=2
- = 3.90dB, k=2
  - = 4.28dB, k=2

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# 2. General Information

### 2.1. General Description of EUT

| Equipment:           | Magport Tri-Fold Wireless Charger  |      |
|----------------------|--|------|
| Model Name:          | EAC-MA24   |      |
| Series Models:       | M1096Q   |      |
| Model Difference:    | All model's the function, software and electric circuit are the same, o<br>with product color and model named different. Test sample model:<br>EAC-MA24. | nly  |
| Trade Mark:          | N/A  |      |
| FCC ID:              | 2A9Q9-EAC-MA24   | 10   |
| Antenna Type:        | Coil Antenna   |      |
| Antenna Gain:        | 0dBi   |      |
| Operation Frequency: | 112KHz~205KHz  | TING |
| Test Frequency:      | Mobile Phone: 118KHz<br>Earbuds: 118KHz<br>Watch: 180KHz   |      |
| Modulation Type:     | ASK  |      |
| Power Source:        | Type-C Input: 5V/3A, 9V/3A<br>Phone Output: 5W/ 7.5W/10W/15W(Max)<br>Watch Output: 2.5W<br>Earbuds Output: 5W  | se ( |
| Power Rating:        | Type-C Input: 5V/3A, 9V/3A<br>Phone Output: 5W/ 7.5W/10W/15W(Max)<br>Watch Output: 2.5W<br>Earbuds Output: 5W  | TING |

time. All the situation has been tested, only the worst situation was recorded in the report.

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### 2.2. Carrier Frequency of Channels

| All HU. | ASID. 1        | AND HO.     |             | HU.         | (KD) 1  |
|---------|----------------|-------------|-------------|-------------|---------|
| 8       | Test Frequency | w.          |             |             | Ŵ       |
| 01      | 118KHz         |             |             |             |         |
| 02      | 118KHz         | UNK TESTINC | JAK TESTINC | JAK TESTING | NK TEST |
| 03      | 180KHz         | OH0         | O HO        | O HO        | O HO    |

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#### 2.3. Test Mode

| Test Item            | Test Mode | Description   |
|----------------------|-----------|---|
| K TESTING            | Mode 1    | AC/DC Adapter + EUT + Wireless load 1 (Battery Status: <1%) + Wireless load 2 (Full load) + Wireless load 3 (Full load)   |
|                      | Mode 2    | AC/DC Adapter + EUT + Wireless load 1 (Battery Status: <50%) + Wireless load 2 (Half load) + Wireless load 32 (Full load) |
|                      | Mode 3    | AC/DC Adapter + EUT + Wireless load 1 (Battery Status: >95%) + Wireless load 2 (Null load) + Wireless load 3 (Full load)  |
|                      | Mode 4    | AC/DC Adapter + EUT + Wireless load 1 (Battery Status: <1%) + Wireless load 2 (Full load) + Wireless load 3 (Half load)   |
|                      | Mode 5    | AC/DC Adapter + EUT + Wireless load 1 (Battery Status: <50%) + Wireless load 2 (Half load) + Wireless load 3 (Half load)  |
|                      | Mode 6    | AC/DC Adapter + EUT + Wireless load 1 (Battery Status: >95%) + Wireless load 2 (Null load) + Wireless load 3 (Half load)  |
| Radiated & Conducted | Mode 7    | AC/DC Adapter + EUT + Wireless load 1 (Battery Status: <1%) + Wireless load 2 (Full load) + Wireless load 3 (Null load)   |
| Test Cases           | Mode 8    | AC/DC Adapter + EUT + Wireless load 1 (Battery Status: <50%) + Wireless load 2 (Half load) + Wireless load 3 (Null load)  |
|                      | Mode 9    | AC/DC Adapter + EUT + Wireless load 1 (Battery Status: >95%) + Wireless load 2 (Null load) + Wireless load 3 (Null load)  |
|                      | Mode 10   | AC/DC Adapter+ EUT + Wireless load 1 (Battery Status: <1%)  |
|                      | Mode 11   | AC/DC Adapter+ EUT + Wireless load 1 (Battery Status: <50%)   |
|                      | Mode 12   | AC/DC Adapter+ EUT + Wireless load 1 (Battery Status: >95%)   |
|                      | Mode 13   | AC/DC Adapter + EUT + Wireless load 2 (Full load)   |
|                      | Mode 14   | AC/DC Adapter + EUT + Wireless load 2 (Half load)   |
|                      | Mode 15   | AC/DC Adapter + EUT + Wireless load 2 (Null load)   |
|                      | Mode 16   | AC/DC Adapter + EUT + Wireless load 3 (Full load)   |
|                      | Mode 17   | AC/DC Adapter + EUT + Wireless load 3 (Half load)   |
|                      | Mode 18   | AC/DC Adapter + EUT + Wireless load 3 (Null load)   |
| Plan                 | Mode 19   | AC/DC Adapter + EUT (Null Load)   |

Note: 1. All modes and configurations above have been tested, the worst-case configuration is Mode 1.

- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode, including the mobile phone in vertical and horizontal positions.
- 3. The wireless load replaces the Mobile Phone, Earbuds and Watch by Lab.
- 4. According to the manufacturer's design principle, the wireless charging power will reach its maximum when the
  - client device's battery level is between 1% and 10%.

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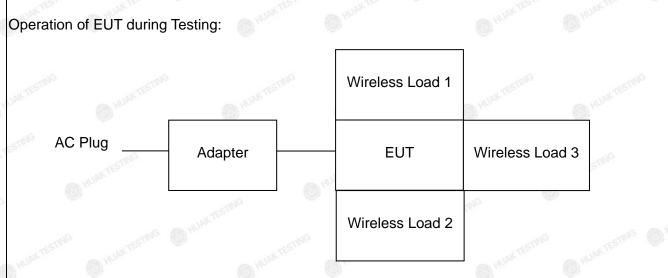
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### 2.4. Description of Test Setup



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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### 2.5. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| ltem               | Equipment                            | Trade Mark | Model/Type No.     | Specification   | Remark     |
|--------------------|--------------------------------------|------------|--------------------|---|------------|
| TESTI <sup>G</sup> | Magport Tri-Fold<br>Wireless Charger | N/A        | EAC-MA24           | N/A   | EUT        |
| 2                  | USB Cable                            | N/A        | N/A                | Length:1.22m  | Accessory  |
| 3<br>Munutestine   | Adapter                              | N/A<br>N/A | CD289              | Input: AC100-240V,<br>50/60Hz, 2A Max<br>USB-C1 Output: DC5V/3A,<br>9V3A, 12V/3A, 15V/3A,<br>20V/5A, 28V/5A 140W<br>MAX<br>USB-C2 Output: DC5V/3A,<br>9V/3A, 12V/3A, 15V/3A,<br>20V/5A 100W MAX<br>USB-A Output: DC5V/4.5A,<br>4.5V/5A, 5V/3A, 9V/2A,<br>12V/1.5A 22.5W MAX<br>Total Output: 140W Max | Peripheral |
| 4                  | Wireless Load 1                      | YBZ        | N/A                | Wireless input 15W  | Peripheral |
| ه 5                | Wireless Load 2                      | YBZ        | N/A                | Wireless input:2.5W   | Peripheral |
| 6                  | Wireless Load 3                      | YBZ        | N/A                | Wireless input:5W   | Peripheral |
| HUAKTES            | INC HUAK TESTING                     | - HUAN     | ESTING HUAK TESTIN | - MAK TESTING   | HUAK TEST  |

#### Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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| 2.6. I | Measurement Inst                        | ruments List    | STING               | 0                    | aNG           | STING            |
|--------|---|-----------------|---------------------|----------------------|---------------|------------------|
| Item   | Equipment                               | Manufacturer    | Model No.           | Serial No.           | Last Cal.     | Cal.<br>Interval |
| 1.     | L.I.S.N.<br>Artificial Mains<br>Network | R&S             | ENV216              | HKE-002              | Feb. 17, 2023 | 1 Year           |
| 2.     | Receiver                                | R&S             | ESR-7               | HKE-005              | Feb. 17, 2023 | 1 Year           |
| 3.     | RF automatic<br>control unit            | Tonscend        | JS0806-2            | HKE-060              | Feb. 17, 2023 | 1 Year           |
| 4.     | Spectrum analyzer                       | R&S             | FSP40               | HKE-025              | Feb. 17, 2023 | 1 Year           |
| 5.     | Spectrum analyzer                       | Agilent         | N9020A              | HKE-048              | Feb. 17, 2023 | 1 Year           |
| 6.     | Preamplifier                            | Schwarzbeck     | BBV 9743            | HKE-006              | Feb. 17, 2023 | 1 Year           |
| 7.     | EMI Test Receiver                       | Rohde & Schwarz | ESR-7               | HKE-010              | Feb. 17, 2023 | 1 Year           |
| 8.     | Bilog Broadband<br>Antenna              | Schwarzbeck     | VULB9163            | HKE-012              | Feb. 17, 2023 | 1 Year           |
| 9.     | Loop Antenna                            | Schwarzbeck     | FMZB 1519<br>B      | HKE-014              | Feb. 17, 2023 | 1 Year           |
| 10.    | Horn Antenna                            | Schwarzbeck     | 9120D               | <sup>3</sup> HKE-013 | Feb. 17, 2023 | 1 Year           |
| 11.    | Pre-amplifier                           | EMCI            | EMC051845<br>SE     | HKE-015              | Feb. 17, 2023 | 1 Year           |
| 12.    | Pre-amplifier                           | Agilent         | 83051A              | HKE-016              | Feb. 17, 2023 | 1 Year           |
| 13.    | EMI Test Software<br>EZ-EMC             | Tonscend        | JS1120-B<br>Version | HKE-083              | N/A           | N/A              |
| 14.    | Power Sensor                            | Agilent         | E9300A              | HKE-086              | Feb. 17, 2023 | 1 Year           |
| 15.    | Spectrum analyzer                       | Agilent         | N9020A              | HKE-048              | Feb. 17, 2023 | 1 Year           |
| 16.    | Signal generator                        | Agilent         | N5182A              | HKE-029              | Feb. 17, 2023 | 1 Year           |
| 17.    | Signal Generator                        | Agilent         | 83630A              | HKE-028              | Feb. 17, 2023 | 1 Year           |
| 18.    | Shielded room                           | Shiel Hong      | 4*3*3               | HKE-039              | Dec. 09, 2021 | 3 Year           |
| 19.    | 10dB Attenuator                         | Schwarzbeck     | VTSD9561F           | HKE-153              | Feb. 17, 2023 | 1 Year           |

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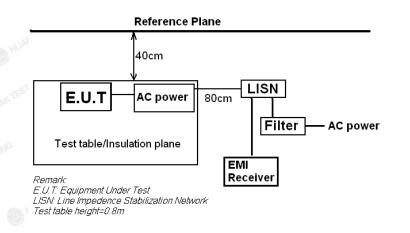
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### 3. Conducted Emission Test

### 3.1. Block Diagram of Test Setup



### 3.2. Conducted Power Line Emission Limit

According to FCC Part 18.307(b)

| <b>-</b>           | Maximum RF Line Voltage (dBµV) |      |         |        |  |  |
|--------------------|--------------------------------|------|---------|--------|--|--|
| Frequency<br>(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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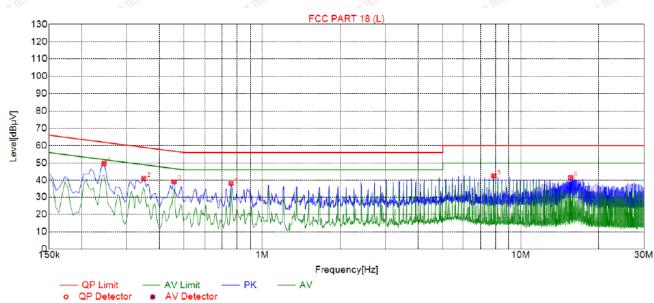


### 3.4. Test Result

PASS

All the test modes completed for test. Only the worst result was reported as below:

Test Specification: Line



|   | Suspected List |                |                 |                |                 |                |                   |          |      |
|---|----------------|----------------|-----------------|----------------|-----------------|----------------|-------------------|----------|------|
|   | NO.            | Freq.<br>[MHz] | Level<br>[dBµV] | Factor<br>[dB] | Limit<br>[dBµV] | Margin<br>[dB] | Reading<br>[dBµV] | Detector | Туре |
| 8 | 1              | 0.2445         | 49.72           | 20.03          | 61.94           | 12.22          | 29.69             | PK       | L    |
|   | 2              | 0.3480         | 40.91           | 20.03          | 59.01           | 18.10          | 20.88             | PK       | L    |
| 3 | 3              | 0.4560         | 39.00           | 20.04          | <b>5</b> 6.77   | 17.77          | 18.96             | PK       | L    |
|   | 4              | 0.7575         | 38.17           | 20.06          | 56.00           | 17.83          | 18.11             | PK       | L    |
| 5 | 5              | 7.8720         | 42.61           | 20.16          | 60.00           | 17.39          | 22.45             | PK       | L    |
|   | 6              | 15.6075        | 41.56           | 19.97          | 60.00           | 18.44          | 21.59             | PK       | L    |

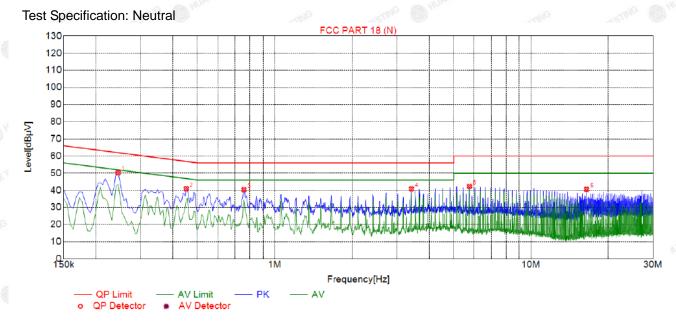
Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

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| 3   | Sus | spected        | l List          |                |                 |                |                   |          |      |
|-----|-----|----------------|-----------------|----------------|-----------------|----------------|-------------------|----------|------|
| ×.  | NO. | Freq.<br>[MHz] | Level<br>[dBµV] | Factor<br>[dB] | Limit<br>[dBµV] | Margin<br>[dB] | Reading<br>[dBµV] | Detector | Туре |
|     | 1   | 0.2445         | 50.28           | 20.03          | 61.94           | 11.66          | 30.25             | PK       | Ν    |
|     | 2   | 0.4515         | 40.90           | 20.04          | 56.85           | 15.95          | 20.86             | PK       | Ν    |
|     | 3   | 0.7575         | 40.30           | 20.06          | 56.00           | 15.70          | 20.24             | PK       | Ν    |
| 100 | 4   | 3.4170         | 40.86           | 20.24          | 56.00           | 15.14          | 20.62             | PK       | Ν    |
|     | 5   | 5.7525         | 42.28           | 20.24          | 60.00           | 17.72          | 22.04             | PK       | N    |
|     | 6   | 16.4940        | 40.54           | 19.99          | 60.00           | 19.46          | 20.55             | PK       | N    |

Remark: Margin = Limit – Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

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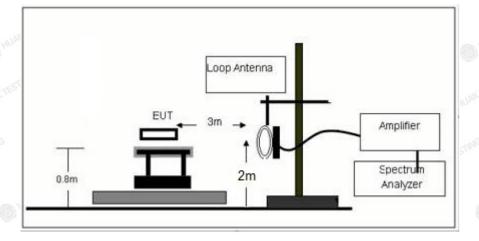
NG

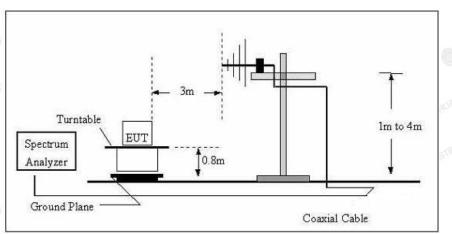
IК

PR

### 4. Radiated Emissions

### 4.1. Block Diagram of Test Setup





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### **HUAK TESTING**

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

#### 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

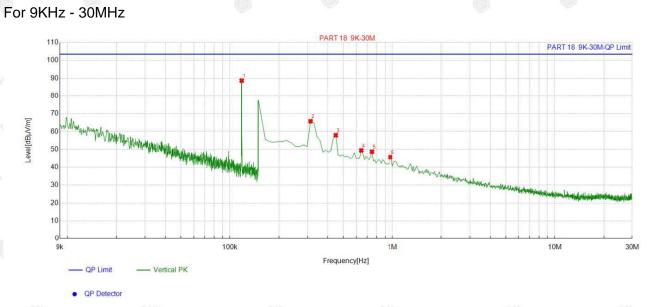
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Report No.: HK2312085969-1E

#### Mobile phone:



### Suspected List

|     | Freq.    | Factor | Reading  | Level    | Limit    | Margin |
|-----|----------|--------|----------|----------|----------|--------|
| NO. | [MHz]    | [dB]   | [dBµV/m] | [dBµV/m] | [dBµV/m] | [dB]   |
| 1   | 0.118118 | 13.79  | 74.85    | 88.64    | 103.50   | 14.86  |
| 2   | 0.314257 | 13.70  | 52.06    | 65.76    | 103.50   | 37.74  |
| 3   | 0.448649 | 13.76  | 44.17    | 57.93    | 103.50   | 45.57  |
| 4   | 0.642771 | 13.75  | 35.64    | 49.39    | 103.50   | 54.11  |
| 5   | 0.747299 | 13.92  | 34.78    | 48.70    | 103.50   | 54.80  |
| 6   | 0.971286 | 14.12  | 31.60    | 45.72    | 103.50   | 57.78  |

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

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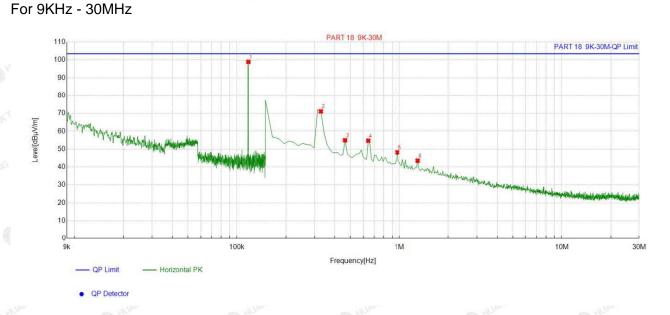
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FICATION

#### Earbuds:



### Suspected List

|   | NO  | Freq.    | Factor | Reading  | Level    | Limit    | Margin |
|---|-----|----------|--------|----------|----------|----------|--------|
| à | NO. | [MHz]    | [dB]   | [dBµV/m] | [dBµV/m] | [dBµV/m] | [dB]   |
| 8 | 1   | 0.117624 | 13.79  | 85.26    | 99.05    | 103.50   | 4.45   |
|   | 2   | 0.32919  | 13.72  | 57.33    | 71.05    | 103.50   | 32.45  |
|   | 3   | 0.463582 | 13.75  | 41.20    | 54.95    | 103.50   | 48.55  |
| 2 | 4   | 0.642771 | 13.75  | 40.97    | 54.72    | 103.50   | 48.78  |
|   | 5   | 0.971286 | 14.12  | 34.07    | 48.19    | 103.50   | 55.31  |
| 2 | 6   | 1.2998   | 14.24  | 29.31    | 43.55    | 103.50   | 59.95  |

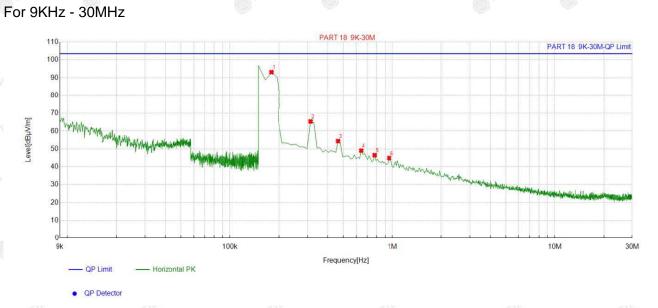
Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level

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#### Watch:



#### **Suspected List**

| 3   | NO  | Freq.    | Factor Reading |          | Level    | Limit    | Margin |
|-----|-----|----------|----------------|----------|----------|----------|--------|
| 3   | NO. | [MHz]    | [dB]           | [dBµV/m] | [dBµV/m] | [dBµV/m] | [dB]   |
|     | 1   | 0.179865 | 13.70          | 79.55    | 93.25    | 103.50   | 10.25  |
| 100 | 2   | 0.314257 | 13.70          | 51.66    | 65.36    | 103.50   | 38.14  |
|     | 3   | 0.463582 | 13.75          | 40.63    | 54.38    | 103.50   | 49.12  |
|     | 4   | 0.642771 | 13.75          | 35.28    | 49.03    | 103.50   | 54.47  |
| 2   | 5   | 0.777164 | 13.99          | 32.49    | 46.48    | 103.50   | 57.02  |
| 2   | 6   | 0.956353 | 14.12          | 30.74    | 44.86    | 103.50   | 58.64  |

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

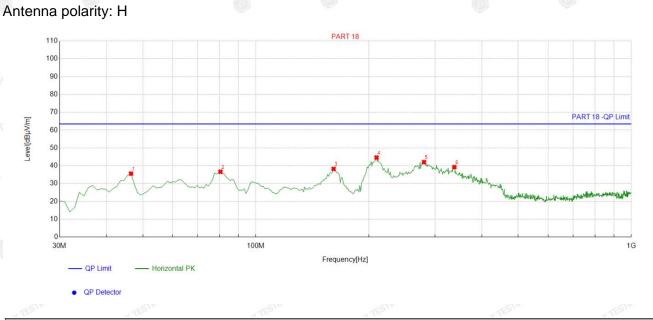
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#### For 30MHz-1GHz



#### Suspected List

| _ L |     |           |        |          | 1        |          |        |        |       |            |
|-----|-----|-----------|--------|----------|----------|----------|--------|--------|-------|------------|
| 3   |     | Freq.     | Factor | Reading  | Level    | Limit    | Margin | Height | Angle |            |
|     | NO. | [MHz]     | [dB]   | [dBµV/m] | [dBµV/m] | [dBµV/m] | [dB]   | [cm]   | [°]   | Polarity   |
| 3   | 1   | 46.506507 | -14.89 | 50.48    | 35.59    | 63.50    | 27.91  | 100    | 217   | Horizontal |
|     | 2   | 80.49049  | -17.44 | 54.08    | 36.64    | 63.50    | 26.86  | 100    | 343   | Horizontal |
|     | 3   | 161.08108 | -17.19 | 55.43    | 38.24    | 63.50    | 25.26  | 100    | 217   | Horizontal |
| 8   | 4   | 209.62963 | -14.60 | 59.19    | 44.59    | 63.50    | 18.91  | 100    | 17    | Horizontal |
| 2   | 5   | 280.51051 | -12.62 | 54.68    | 42.06    | 63.50    | 21.44  | 100    | 343   | Horizontal |
|     | 6   | 337.79779 | -11.41 | 50.69    | 39.28    | 63.50    | 24.22  | 100    | 162   | Horizontal |

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

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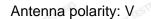
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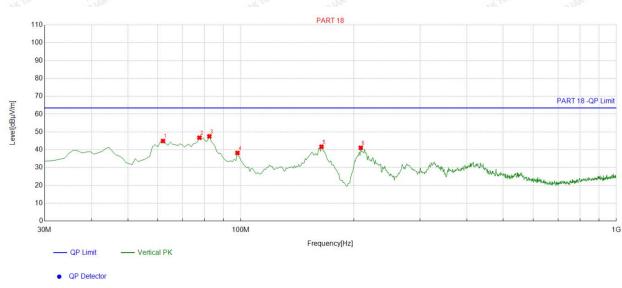


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#### Suspected List

| ş |     | Freq.     | Factor | Reading  | Level    | Limit               | Margin | Height | Angle | Delevity |
|---|-----|-----------|--------|----------|----------|---------------------|--------|--------|-------|----------|
| 3 | NO. | [MHz]     | [dB]   | [dBµV/m] | [dBµV/m] | [dBµV/m]            | [dB]   | [cm]   | [°]   | Polarity |
|   | 1   | 62.042042 | -14.19 | 59.09    | 44.90    | 63.50               | 18.60  | 100    | 255   | Vertical |
|   | 2   | 77.577578 | -17.16 | 63.92    | 46.76    | 63.50               | 16.74  | 100    | 260   | Vertical |
| 2 | 3   | 82.432432 | -17.57 | 65.10    | 47.53    | 63.50               | 15.97  | 100    | 252   | Vertical |
|   | 4   | 97.967968 | -15.83 | 54.05    | 38.22    | 63.50               | 25.28  | 100    | 33    | Vertical |
|   | 5   | 163.99399 | -17.19 | 58.89    | 41.70    | <mark>6</mark> 3.50 | 21.80  | 100    | 354   | Vertical |
|   | 6   | 208.65865 | -14.61 | 55.74    | 41.13    | 63.50               | 22.37  | 100    | 335   | Vertical |

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

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### 5. Antenna Requirement

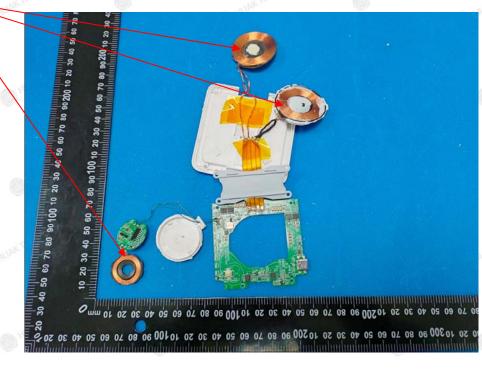
#### Refer to statement below for compliance.

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

#### <u>Antenna</u>



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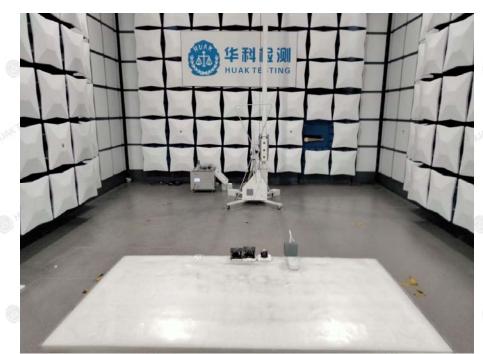
Report No.: HK2312085969-1E

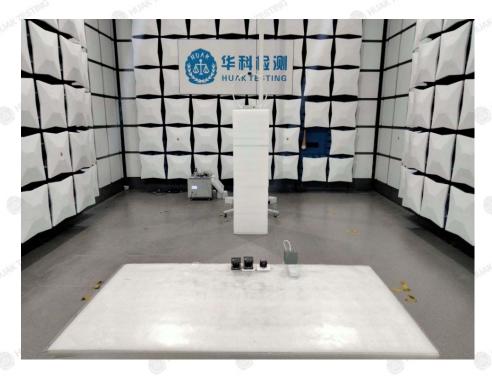
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# 6. Photographs of Test

Radiated Emission





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### **Conducted Emission**



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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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