



## FCC Part 15 Subpart B TEST REPORT

Client Name : Anhui Aerospace & PMA Health Tech. Co., Ltd.  
Address : No.1201 Huguang East Rd. Shushan District, Hefei City, Anhui Province  
Product Name : Gravity MiHigh Back Wrap V2  
Test Model No. : MHBW008  
Report No. : CCTI-2023112809E  
Issued Date : Dec. 08, 2023

Prepared By : Shenzhen CCTI Technology Co., Ltd.  
Address : 7th Floor, Block A, Building E, Yongwei Industrial Park, No. 118, Yongfu Road, Qiaotou, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China  
Contact Info : Service Tel : 0086-400-188-9662  
CCTI E-mail : ccti@ccti-lab.com  
CCTI Web : www.ccti-lab.com



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# TEST REPORT VERIFICATION

Applicant : Anhui Aerospace & PMA Health Tech. Co., Ltd.

Address : No.1201 Huguang East Rd. Shushan District, Hefei City, Anhui Province

Manufacturer : Dezhou Aerospace&PMA Graphene Technology Co., Ltd.

Address : No.6596 Dongfanghong East Rd. Yuanqiao Town, Economic Development Zone, Dezhou City, Shandong Province

Product Name : Gravity MiHigh Back Wrap V2

Model No. : MHBW008

Series No. : N/A

Trade Mark : GRAVITY

Rating(s) : Input: 5V $\overline{=}$  2A; DC 3.7V From Battery, Class III  
(Supplier by AC Adapter: Model: SK01T8-0500200Z)  
Input: AC100V-240V; 50Hz/60Hz; 0.4A, Output: 5V $\overline{=}$  2.0A, 10W

Test Date : Nov. 27, 2023 to Dec. 08, 2023

Test Standard(s) : FCC Part 15 Subpart B  
ANSI C63.4:2014

Test Result : PASS

This device described above has been tested by CCTI, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. The results shown in this test report refer only to the sample(s) tested unless other wise stated and the sample(s) are retained for 30 days only.

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Producer By : Betty Liang Date : Dec. 08, 2023  
(Betty Liang / Engineer)

Authorized Signer : Corey Mao Date : Dec. 08, 2023  
(Corey Mao / Manager)



## TABLE OF CONTENTS

|                                                               |           |
|---------------------------------------------------------------|-----------|
| <b>1. GENERAL INFORMATION.....</b>                            | <b>4</b>  |
| 1.1. Description of Device (EUT).....                         | 4         |
| 1.2. Test Facility.....                                       | 4         |
| 1.3. Tested System Details.....                               | 4         |
| 1.4. Test Uncertainty.....                                    | 4         |
| <b>2. TEST INSTRUMENT USED.....</b>                           | <b>5</b>  |
| <b>3. CONDUCTED EMISSION AT THE MAINS TERMINALS TEST.....</b> | <b>6</b>  |
| 3.1. Block Diagram Of Test Setup.....                         | 6         |
| 3.2. Test Standard.....                                       | 6         |
| 3.3. Power Line Conducted Emission Limit.....                 | 6         |
| 3.4. EUT Configuration on Test.....                           | 6         |
| 3.5. Operating Condition of EUT.....                          | 6         |
| 3.6. Test Procedure.....                                      | 7         |
| 3.7. Test Result.....                                         | 7         |
| <b>4. RADIATION EMISSION TEST.....</b>                        | <b>10</b> |
| 4.1. Block Diagram of Test Setup.....                         | 10        |
| 4.2. Test Standard.....                                       | 10        |
| 4.3. Radiation Limit.....                                     | 10        |
| 4.4. EUT Configuration on Test.....                           | 10        |
| 4.5. Operating Condition of EUT.....                          | 10        |
| 4.6. Test Procedure.....                                      | 11        |
| 4.7. Test Result.....                                         | 11        |
| <b>APPENDIX I -- EUT PHOTOGRAPHS.....</b>                     | <b>14</b> |
| <b>APPENDIX II -- EUT TEST PHOTOGRAPHS.....</b>               | <b>19</b> |

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## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

EUT : Gravity MiHigh Back Wrap V2

Trademark : GRAVITY

Model Number : MHBW008

Serial Model : N/A

Model Difference : N/A

Power Supply : Input: 5V $\overline{=}$  2A; DC 3.7V From Battery, Class III  
(Supplier by AC Adapter: Model: SK01T8-0500200Z)  
Input: AC100V-240V; 50Hz/60Hz; 0.4A, Output: 5V $\overline{=}$  2.0A, 10W

**Remark:**

- (1) MHBW008 was selected as the test model and the datas have been recorded in this report.
- (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

### 1.2. Test Facility

Shenzhen CCTI Technology Co., Ltd.

7th Floor, Block A, Building E, Yongwei Industrial Park, No. 118, Yongfu Road, Qiaotou, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

### 1.3. Tested System Details

None.

### 1.4. Test Uncertainty

Conducted Emission :  $\pm 2.66$ dB  
Uncertainty

Radiated Emission Uncertainty :  $\pm 4.26$ dB

## 2. TEST INSTRUMENT USED

### 2.1. For Conducted Emission at the mains terminals Test

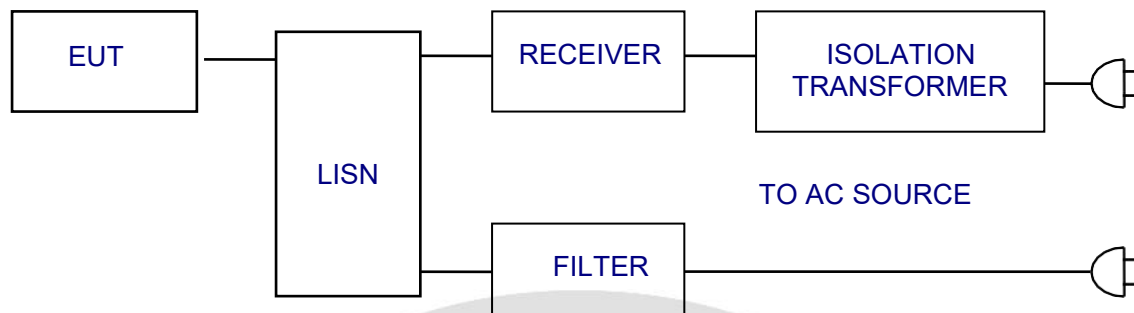
| Conducted Emission Test ( A --- site) |              |          |          |               |               |
|---------------------------------------|--------------|----------|----------|---------------|---------------|
| Equipment                             | Manufacturer | Model#   | Serial#  | Last Cal.     | Next Cal.     |
| 843 Shielded Room                     | ChengYu      | 843 Room | 843      | Mar. 09, 2023 | Mar. 08, 2024 |
| EMI Receiver                          | R&S          | ESCI     | 101421   | Mar. 09, 2023 | Mar. 08, 2024 |
| LISN                                  | Schwarzbeck  | NSLK8127 | 8127739  | Mar. 09, 2023 | Mar. 08, 2024 |
| Attenuator                            | R&S          | ESH3-Z2  | CCTI021E | Mar. 09, 2023 | Mar. 08, 2024 |
| 843 Cable 1#                          | FUJIKURA     | 843C1#   | 001      | Mar. 09, 2023 | Mar. 08, 2024 |

### 2.2. For Radiated Emission Test

| Radiation Emission Test (966 chamber) |              |           |               |               |               |
|---------------------------------------|--------------|-----------|---------------|---------------|---------------|
| Equipment                             | Manufacturer | Model#    | Serial#       | Last Cal.     | Next Cal.     |
| 966 chamber                           | ChengYu      | 966 Room  | 966           | Mar. 09, 2023 | Mar. 08, 2024 |
| Spectrum Analyzer                     | Agilent      | E4407B    | MY45109572    | Mar. 09, 2023 | Mar. 08, 2024 |
| Amplifier                             | Schwarzbeck  | BBV9743   | 9743-119      | Mar. 09, 2023 | Mar. 08, 2024 |
| Amplifier                             | Schwarzbeck  | BBV9718   | 9718-270      | Mar. 09, 2023 | Mar. 08, 2024 |
| Log-periodic Antenna                  | Schwarzbeck  | VULB9160  | VULB9160-3369 | Mar. 09, 2023 | Mar. 08, 2024 |
| EMI Receiver                          | R&S          | ESCI      | 101421        | Mar. 09, 2023 | Mar. 08, 2024 |
| Horn Antenna                          | Schwarzbeck  | BBHA9120D | 9120D-1275    | Mar. 09, 2023 | Mar. 08, 2024 |
| 966 Cable 1#                          | CHENGYU      | 966       | 004           | Mar. 09, 2023 | Mar. 08, 2024 |
| 966 Cable 2#                          | CHENGYU      | 966       | 003           | Mar. 09, 2023 | Mar. 08, 2024 |

### 3. CONDUCTED EMISSION AT THE MAINS TERMINALS TEST

#### 3.1. Block Diagram Of Test Setup



#### 3.2. Test Standard

FCC PART 15 B

#### 3.3. Power Line Conducted Emission Limit

| Frequency MHz | Limits dB( $\mu$ V) |               |
|---------------|---------------------|---------------|
|               | Quasi-peak Level    | Average Level |
| 0.15 ~ 0.50   | 66 ~ 56*            | 56 ~ 46*      |
| 0.50 ~ 5.00   | 56                  | 46            |
| 5.00 ~ 30.00  | 60                  | 50            |

Notes: 1. \*Decreasing linearly with logarithm of frequency.  
 2. The lower limit shall apply at the transition frequencies.

#### 3.4. EUT Configuration on Test

The following equipment are installed on conducted emission test to meet FCC PART 15 B requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

#### 3.5. Operating Condition of EUT

- (1) Setup the EUT and simulators as shown in Section 3.1.
- (2) Turn on the power of all equipment.
- (3) Let the EUT work in test modes and test it.

### 3.6. Test Procedure

The EUT is put on the ground and connected to the AC mains through a Artificial Mains Network (AMN). This provided a 50ohm coupling impedance for the tested equipment. Both sides of AC line are checked to find out the maximum conducted emission levels according to the **FCC PART 15 B** regulations during conducted emission test.

The bandwidth of the test receiver (R&S Test Receiver ESCI) is set at 10KHz.

The frequency range from 150 KHz to 30 MHz is investigated.

### 3.7. Test Result

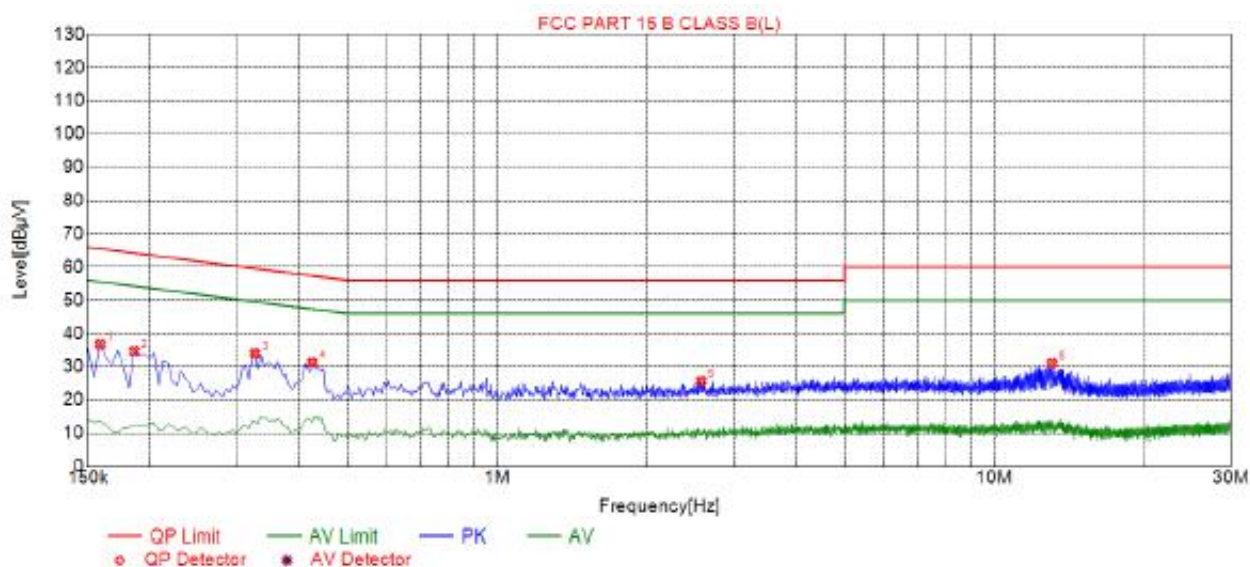
PASS

Please refer to the following page.



### Conducted Emission At The Mains Terminals Test Data

|                |                                                |                    |          |
|----------------|------------------------------------------------|--------------------|----------|
| Temperature:   | 24.5 °C                                        | Relative Humidity: | 54%      |
| Pressure:      | 1009hPa                                        | Phase :            | Line     |
| Test Voltage : | DC 5V From Power Adapter<br>Input AC 110V/60Hz | Test Mode:         | Charging |

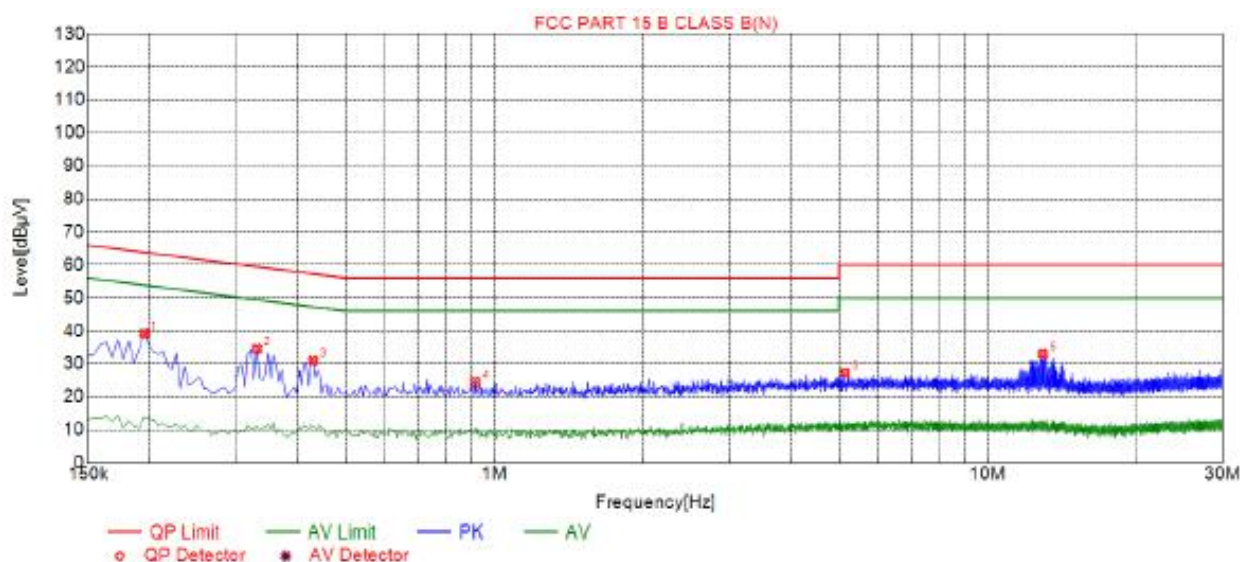


### Suspected List

| NO. | Freq.<br>[MHz] | Level<br>[dBμV] | Factor<br>[dB] | Limit<br>[dBμV] | Margin<br>[dB] | Reading<br>[dBμV] | Detector | Type |
|-----|----------------|-----------------|----------------|-----------------|----------------|-------------------|----------|------|
| 1   | 0.1590         | 38.71           | 20.01          | 65.52           | 28.81          | 16.70             | PK       | L    |
| 2   | 0.1880         | 34.60           | 20.05          | 64.21           | 29.61          | 14.55             | PK       | L    |
| 3   | 0.3255         | 34.00           | 20.05          | 59.57           | 25.57          | 13.95             | PK       | L    |
| 4   | 0.4245         | 31.27           | 20.04          | 57.36           | 26.09          | 11.23             | PK       | L    |
| 5   | 2.5710         | 25.66           | 20.20          | 56.00           | 30.34          | 5.46              | PK       | L    |
| 6   | 13.0580        | 31.05           | 19.96          | 60.00           | 28.95          | 11.09             | PK       | L    |

### Conducted Emission At The Mains Terminals Test Data

|                |                                                |                    |          |
|----------------|------------------------------------------------|--------------------|----------|
| Temperature:   | 24.5 °C                                        | Relative Humidity: | 54%      |
| Pressure:      | 1009hPa                                        | Phase :            | Neutral  |
| Test Voltage : | DC 5V From Power Adapter<br>Input AC 110V/60Hz | Test Mode:         | Charging |

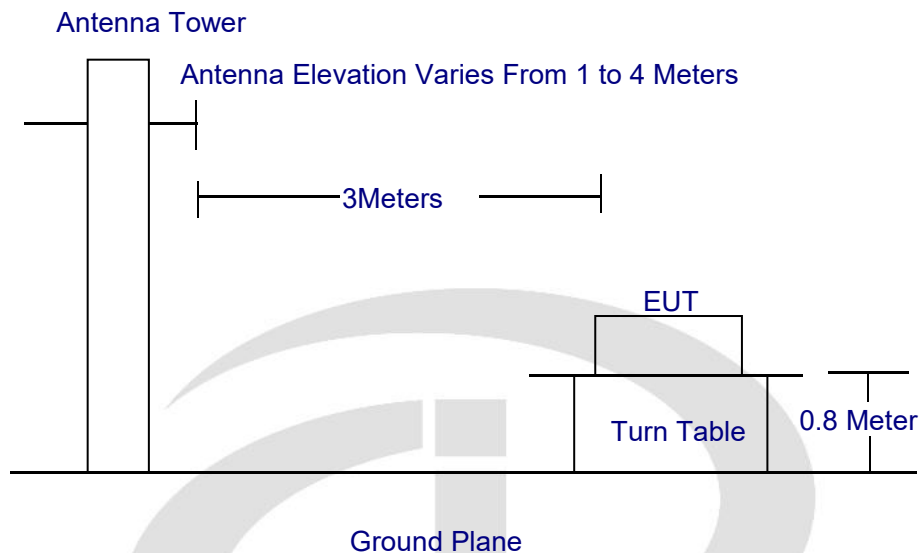


### Suspected List

| NO. | Freq.<br>[MHz] | Level<br>[dBμV] | Factor<br>[dB] | Limit<br>[dBμV] | Margin<br>[dB] | Reading<br>[dBμV] | Detector | Type |
|-----|----------------|-----------------|----------------|-----------------|----------------|-------------------|----------|------|
| 1   | 0.1950         | 39.17           | 20.03          | 63.82           | 24.65          | 19.14             | PK       | N    |
| 2   | 0.3300         | 34.48           | 20.04          | 59.45           | 24.97          | 14.44             | PK       | N    |
| 3   | 0.4290         | 30.99           | 20.05          | 57.27           | 26.28          | 10.94             | PK       | N    |
| 4   | 0.9150         | 24.55           | 20.06          | 56.00           | 31.45          | 4.49              | PK       | N    |
| 5   | 5.1360         | 27.33           | 20.26          | 60.00           | 32.67          | 7.07              | PK       | N    |
| 6   | 12.9300        | 33.10           | 19.97          | 60.00           | 26.90          | 13.13             | PK       | N    |

## 4. RADIATION EMISSION TEST

### 4.1. Block Diagram of Test Setup



### 4.2. Test Standard

FCC PART 15 B

### 4.3. Radiation Limit

| FREQUENCY<br>(MHz) | DISTANCE<br>(Meters) | FIELD STRENGTHS LIMITS<br>(dB $\mu$ V/m) |
|--------------------|----------------------|------------------------------------------|
| 30 ~ 88            | 3                    | 40.0                                     |
| 88 ~ 216           | 3                    | 43.5                                     |
| 216 ~ 960          | 3                    | 46.0                                     |
| 960 ~ 1000         | 3                    | 54.0                                     |

### 4.4. EUT Configuration on Test

The FCC PART 15 B regulations test method must be used to find the maximum emission during radiated emission test.

The configuration of EUT is the same as used in conducted emission test.

Please refer to Section 2.2.

### 4.5. Operating Condition of EUT

Same as conducted emission test, which is listed in Section 2.2 except the test set up replaced as Section 4.1.

#### 4.6. Test Procedure

The EUT and its simulators are placed on a turned table that is 0.8 meter above the ground. The turned table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna that is mounted on the antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated biconical and log periodical antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on test. In order to find the maximum emission levels, the interface cable must be manipulated according to FCC PART 15 B on radiated emission test.

The bandwidth setting on the field strength meter (R&S Test Receiver ESCI) is set at 1GHz, set at 1MHz above 1GHz

The frequency range from 30MHz to 1000MHz is checked.

The highest frequency of the internal sources of the EUT was 1.3GHz, so the measurement was only made up to 6GHz.

#### 4.7. Test Result

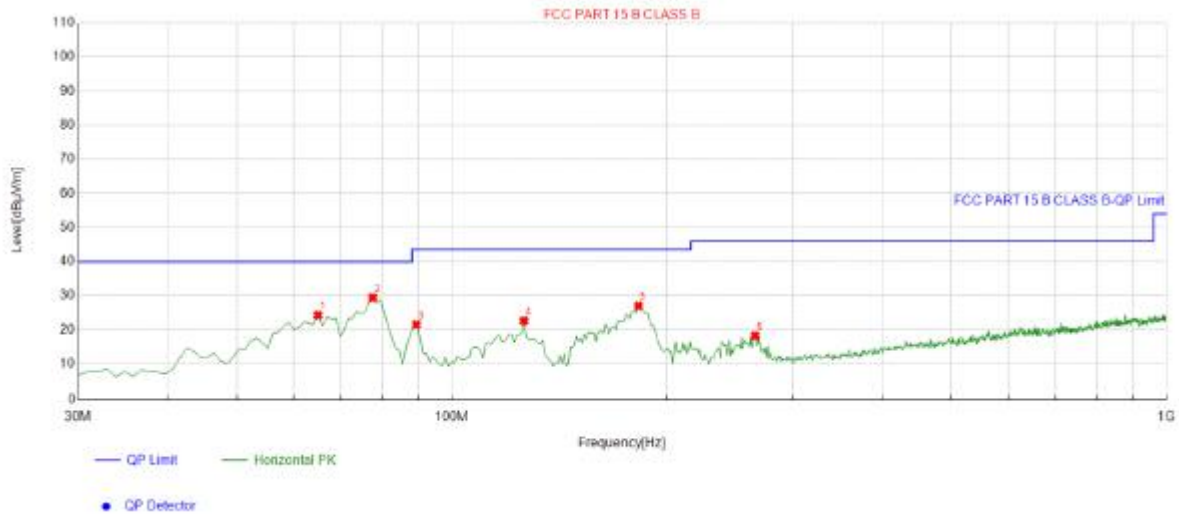
PASS

Please refer to the following page.

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### Radiation Emission Test Data

|                |                                                |                    |            |
|----------------|------------------------------------------------|--------------------|------------|
| Temperature:   | 24.5 °C                                        | Relative Humidity: | 54%        |
| Pressure:      | 1009hPa                                        | Phase :            | Horizontal |
| Test Voltage : | DC 5V From Power Adapter<br>Input AC 110V/60Hz | Test Mode:         | Charging   |

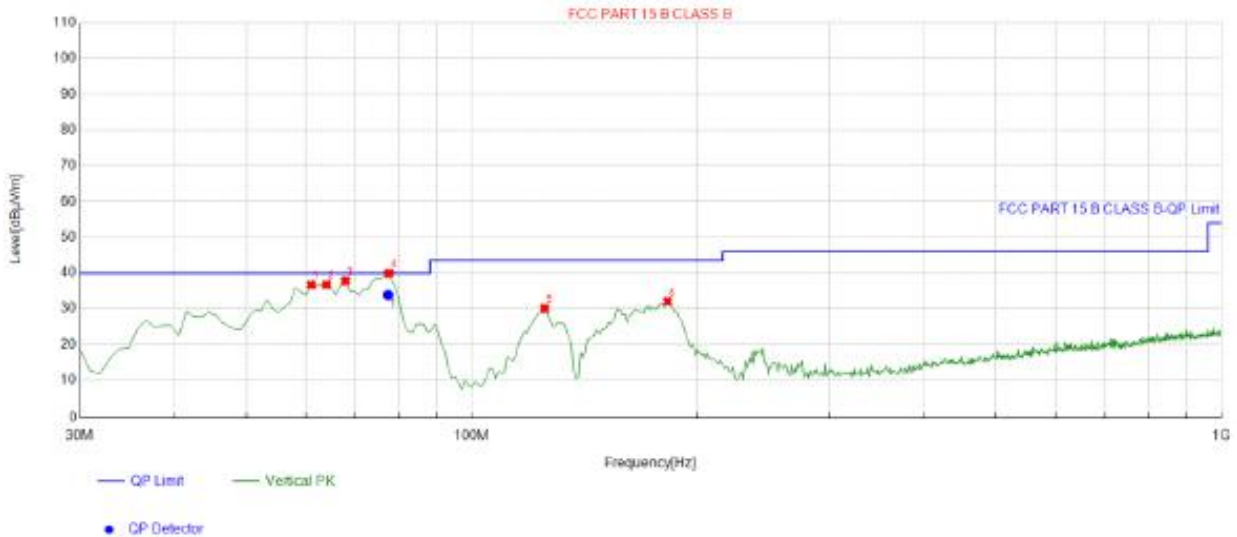


#### Suspected List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|----------------|---------------------|-------------------|-------------------|----------------|----------------|--------------|------------|
| 1   | 64.954955      | -14.58         | 38.91               | 24.33             | 40.00             | 15.67          | 100            | 207          | Horizontal |
| 2   | 77.577578      | -17.16         | 46.54               | 29.38             | 40.00             | 10.62          | 100            | 168          | Horizontal |
| 3   | 89.229229      | -17.44         | 38.98               | 21.54             | 43.50             | 21.96          | 100            | 351          | Horizontal |
| 4   | 126.12612      | -16.21         | 38.87               | 22.66             | 43.50             | 20.84          | 100            | 231          | Horizontal |
| 5   | 182.44244      | -16.79         | 43.79               | 27.00             | 43.50             | 16.50          | 100            | 74           | Horizontal |
| 6   | 265.94594      | -12.71         | 30.98               | 18.27             | 46.00             | 27.73          | 100            | 119          | Horizontal |

### Radiation Emission Test Data

|                |                                                |                    |          |
|----------------|------------------------------------------------|--------------------|----------|
| Temperature:   | 24.5 °C                                        | Relative Humidity: | 54%      |
| Pressure:      | 1009hPa                                        | Phase :            | Vertical |
| Test Voltage : | DC 5V From Power Adapter<br>Input AC 110V/60Hz | Test Mode:         | Charging |



### Suspected List

| NO. | Freq.<br>[MHz] | Factor<br>[dB] | Reading<br>[dBμV/m] | Level<br>[dBμV/m] | Limit<br>[dBμV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|----------------|---------------------|-------------------|-------------------|----------------|----------------|--------------|----------|
| 1   | 61.071071      | -14.27         | 51.03               | 36.76             | 40.00             | 3.24           | 100            | 68           | Vertical |
| 2   | 63.983984      | -14.68         | 51.47               | 36.79             | 40.00             | 3.21           | 100            | 57           | Vertical |
| 3   | 67.867868      | -15.38         | 53.15               | 37.77             | 40.00             | 2.23           | 100            | 305          | Vertical |
| 4   | 77.577578      | -17.16         | 57.04               | 39.88             | 40.00             | 0.12           | 100            | 2            | Vertical |
| 5   | 125.15515      | -16.11         | 46.17               | 30.06             | 43.50             | 13.44          | 100            | 1            | Vertical |
| 6   | 182.44244      | -16.79         | 48.83               | 32.04             | 43.50             | 11.46          | 100            | 209          | Vertical |

## APPENDIX I -- EUT PHOTOGRAPHS



EUT Photo 1



EUT Photo 2



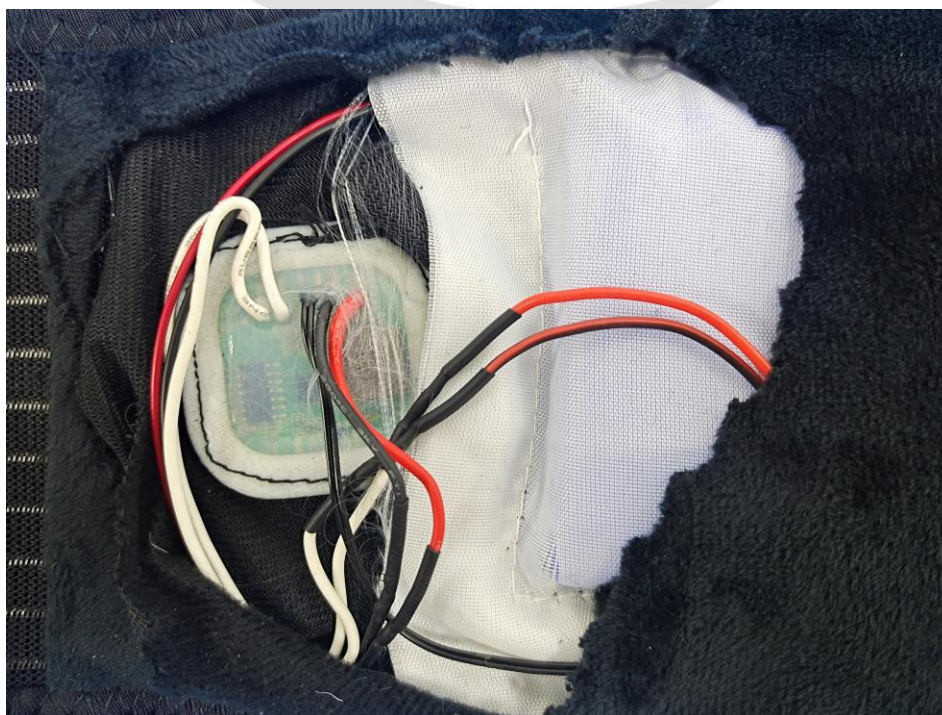
EUT Photo 3



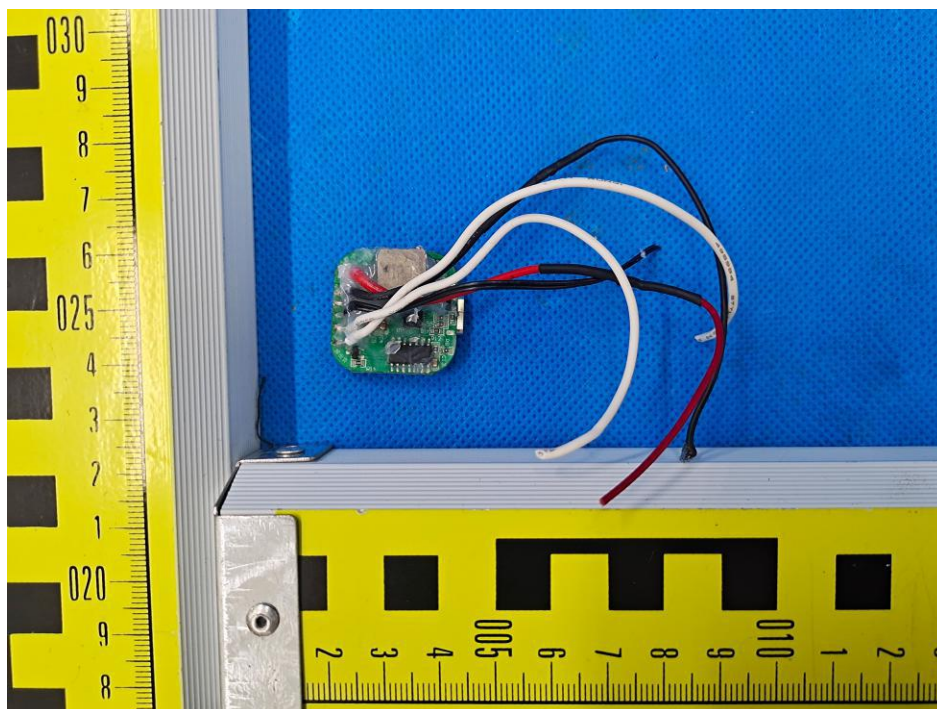
EUT Photo 4



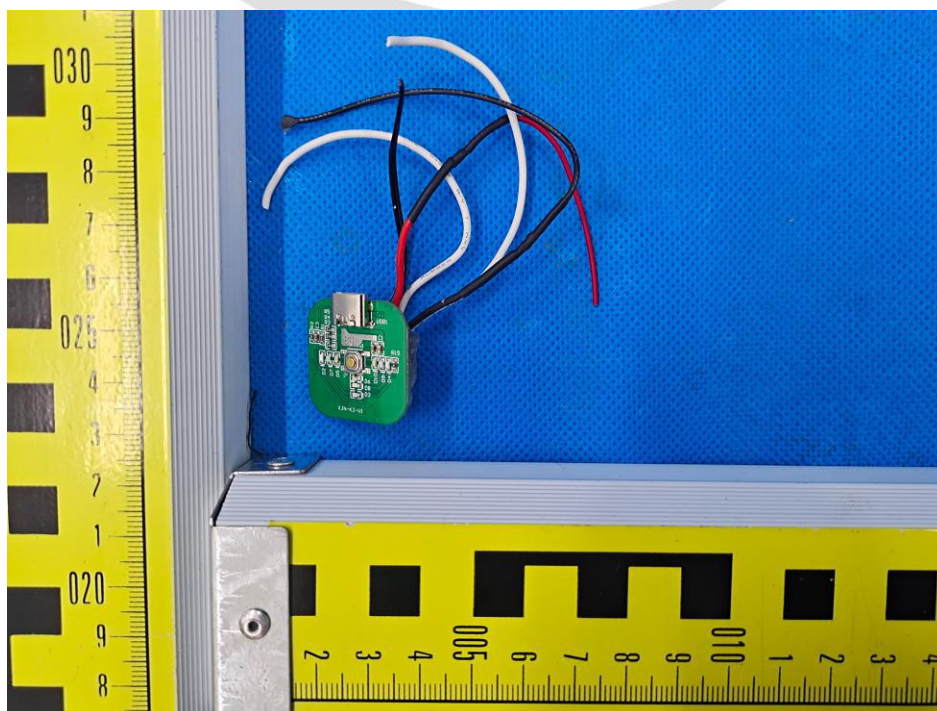
EUT Photo 5



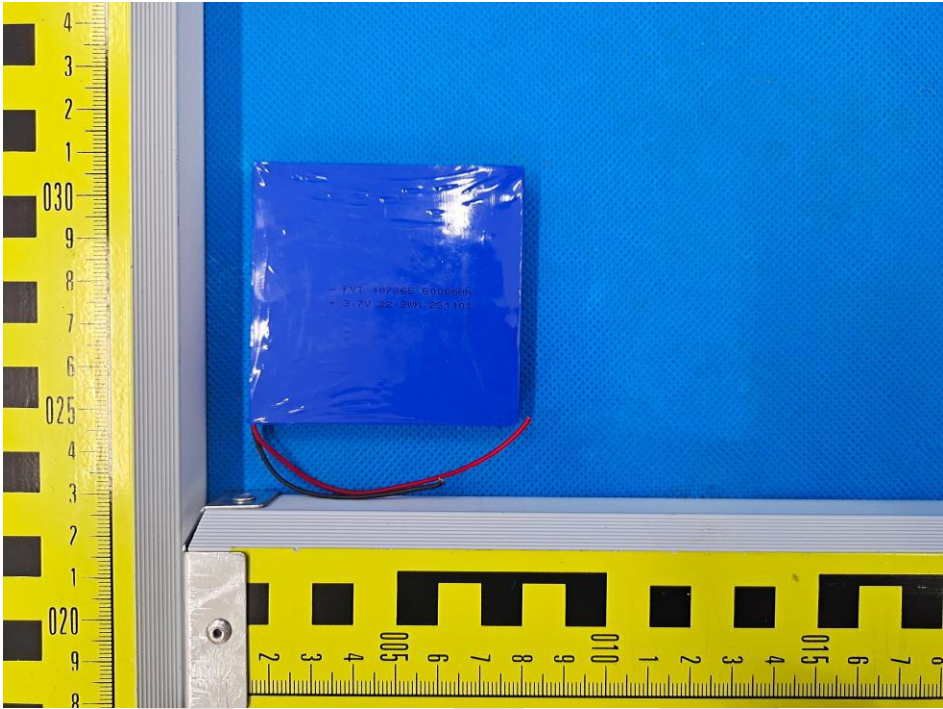
EUT Photo 6



**EUT Photo 7**



**EUT Photo 8**



## EUT Photo 9



## EUT Photo 10

## APPENDIX II -- EUT TEST PHOTOGRAPHS



EUT Photo CE



EUT Photo RE

\*\*\*\*\* END OF REPORT \*\*\*\*\*