



Report No.: TWN2506603E  
Applicant: Eastern Times Technology Co., Ltd  
Product: ACTIVE NOISE CANCELLING HEADSET  
Trademark: REDRAGON  
Model No.: H610, ET-9203, H610G  
Test Standards: EN 55032:2015+A11:2020+A1:2020  
EN IEC 61000-3-2:2019/A2:2024  
EN 55035:2017+A11:2020  
EN 61000-3-3:2013+A2:2021+AC:2022-01

Test Result: The EMC testing has been performed on the submitted samples and found in compliance with council EMC Directive 2014/30/EU.

Approved By

A handwritten signature in black ink that reads 'Terry Tang'.

Terry Tang

Manager

Dated: August 12, 2025

**Results appearing herein relate only to the sample tested**  
**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TESTING LABORATORIES**

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail: info@timeway-lab.com



## **Special Statement:**

### **FCC-Registration No.: 744189**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

### **Industry Canada (IC) —Registration No.:5205A**

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

### **A2LA (Certification Number:5013.01)**

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

### **CAB identifier: CN0033**

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## 1.0 General Details

### 1.1 Test Lab Details

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel: +86 755 83448688 Fax: +86 755 83442996

#### Test Location

All tests were performed at:

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel: +86 755 83448688 Fax: +86 755 83442996

### 1.2 Applicant Details

Applicant: Eastern Times Technology Co., Ltd

Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City, Guangdong, China.

Manufacturer: Eastern Times Technology Co., Ltd

Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City, Guangdong, China.

### 1.3 Description of EUT

Product: ACTIVE NOISE CANCELLING HEADSET

Trademark: REDRAGON

Model Number: H610

Adding Trademark: N/A

Adding Model Number: ET-9203, H610G

Rating: Input: DC5V, 380mA

Battery: DC3.7V, 500mAh Li-ion battery

### 1.4 Submitted Sample(s)

2 Samples

### 1.5 Test Duration

Date of Receipt of Application: June 18, 2025

Date of Test: June 18, 2025 ~ August 12, 2025

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## 2.0 List of Measurement Equipment

### 2.1 Conducted Emission Test

| Name              | Model No. | Serial No. | Manufacturer | Calibration Date | Calibration Cycle |
|-------------------|-----------|------------|--------------|------------------|-------------------|
| EMI Test Receiver | ESCS 30   | 834115/006 | RS           | 2025.07.11       | 1Year             |
| LISN              | NNB42     | 00012      | SCHAFFNER    | 2025.07.11       | 1Year             |

### 2.2 Radiated Disturbance Test

| Name              | Model No   | Serial No. | Manufacturer | Calibration Date | Calibration Cycle |
|-------------------|------------|------------|--------------|------------------|-------------------|
| EMI Test Receiver | ESPI 3     | 100379     | RS           | 2025.07.11       | 1Year             |
| Spectrum Analyzer | E4407B     | MY50441392 | HP/Agilent   | 2025.07.11       | 1Year             |
| Amplifier         | BBV9743    | #218       | HP/Agilent   | 2025.07.11       | 1Year             |
| Bilog Antenna     | VULB9163   | 9163/340   | Schwarebeck  | 2025.07.17       | 3Year             |
| Horn Antenna      | BBHA 9120D | 9120D-631  | RS           | 2025.07.17       | 3Year             |
| Amplifier         | 8449B      | 3008A00160 | HP/Agilent   | 2025.07.11       | 1Year             |

### 2.3 Harmonic & Flicker Test

| Name                          | Model No. | Serial No. | Manufacturer | Calibration Date | Calibration Cycle |
|-------------------------------|-----------|------------|--------------|------------------|-------------------|
| Harmonics Flicker Test System | PACS-1    | 72305      | CI           | 2025.07.11       | 1Year             |
| 5K VA AC Power Source         | 5001iX    | 56060      | CI           | 2025.07.11       | N/A               |

### 2.4 ESD Test

| Name          | Model No. | Serial No. | Manufacturer | Calibration Date | Calibration Cycle |
|---------------|-----------|------------|--------------|------------------|-------------------|
| ESD Simulator | ESS-2002  | ESS06Y6394 | NoiseKen     | 2025.07.11       | 1Year             |

### 2.5 RF field Strength Susceptibility

| Name             | Model No. | Serial No. | Manufacturer | Calibration Date | Calibration Cycle |
|------------------|-----------|------------|--------------|------------------|-------------------|
| Signal Generator | SMT03     | 100059     | RS           | 2025.07.11       | 1Year             |
| Power Meter      | NRVS      | ---        | RS           | 2025.07.11       | 1Year             |
| Voltage Probe    | URV5-Z2   | 100012     | RS           | 2025.07.11       | 1Year             |

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|                 |           |        |         |            |       |
|-----------------|-----------|--------|---------|------------|-------|
| Voltage Probe   | URV5-Z2   | 100013 | RS      | 2025.07.11 | 1Year |
| Power Amplifier | 150W1000  | 300999 | AR      | 2025.07.11 | 1Year |
| Power Amplifier | 25S1G4AM1 | 305993 | AR      | 2025.07.11 | 1Year |
| Field Probe     | CBL6111C  | 2576   | Holaday | 2025.07.11 | 1Year |
| Bilog Antenna   | MCDC      | ---    | Chase   | 2025.07.11 | 1Year |

2.6 Electrical Fast Transient/Burst (EFT/B) Immunity test

| Name          | Model No.  | Serial No. | Manufacturer | Calibration Date | Calibration Cycle |
|---------------|------------|------------|--------------|------------------|-------------------|
| EFT Generator | UCS 500 M4 | 0304-42    | EM TEST      | 2025.07.11       | 1Year             |
| Power Source  | MV2616     | 0104-14    | EM TEST      | 2025.07.11       | 1Year             |

2.7 Surge Test

| Name                    | Model No.  | Serial No. | Manufacturer | Calibration Date | Calibration Cycle |
|-------------------------|------------|------------|--------------|------------------|-------------------|
| Ultra Compact Simulator | UCS 500 M4 | 0304-42    | EM TEST      | 2025.07.11       | 1Year             |
| Power Source            | MV2616     | 0104-14    | EM TEST      | 2025.07.11       | 1Year             |

2.8 Conducted Immunity Test

| Name                      | Model No. | Serial No. | Manufacturer | Calibration Date | Calibration Cycle |
|---------------------------|-----------|------------|--------------|------------------|-------------------|
| Continuous Wave Simulator | CWS 500C  | 0407-05    | EM TEST      | 2025.07.11       | 1 Year            |

2.9 Power-frequency Magnetic Field

| Name                      | Model No.  | Serial No. | Manufacturer | Calibration Date | Calibration Cycle |
|---------------------------|------------|------------|--------------|------------------|-------------------|
| Continuous Wave Simulator | UCS 500 M4 | 0304-42    | EM TEST      | 2025.07.11       | 1 Year            |
| Power Source Network      | MV 2616    | 0104-14    | EM TEST      | 2025.07.11       | 1 Year            |
| Current Transformer       | MC2630     | --         | EM TEST      | 2025.07.11       | 1 Year            |
| Magnetic Coil             | MS100      | 0304-42    | EM TEST      | 2025.07.11       | 1 Year            |

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2.10 Voltage Dips/Interruption Immunity Test

| Name                    | Model No.  | Serial No. | Manufacturer | Calibration Date | Calibration Cycle |
|-------------------------|------------|------------|--------------|------------------|-------------------|
| Ultra Compact Simulator | UCS 500 M4 | 0304-42    | EM TEST      | 2025.07.11       | 1Year             |
| Power Source            | MV2616     | 0104-14    | EM TEST      | 2025.07.11       | 1Year             |

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**3.0 Technical Details**

**3.1 Investigations Requested**

Perform Electromagnetic Interference [EMI] & Electromagnetic Susceptibility [EMS] tests for CE Marking

**3.2 Test Standards**

| Test Standards                           |   |                                       |
|--|---|---------------------------------------|
| EN 55032:2015+A11:2020+A1:2020           | Electromagnetic compatibility of multimedia equipment - Emission Requirements   |                                       |
| EN IEC 61000-3-2:2019/A2:2024            | Electromagnetic compatibility(EMC)- Part 3-2:Limits-Limits for harmonic current emissions(equipment input current $\leq$ 16A per phase)   |                                       |
| EN 61000-3-3:2013<br>+A2:2021+AC:2022-01 | Electromagnetic compatibility (EMC)- Part 3-3: Limits-Limitation of voltage changes, Voltage fluctuations and flicker in public low-voltage supply systems. For equipment with rated current $\leq$ 16A per phase and not subject to conditional connection |                                       |
| EN 55035:2017+A11:2020                   | Electromagnetic compatibility of multimedia equipment - Immunity requirements   |                                       |
|  | EN 61000-4-2:2009   | Electrostatic discharge               |
|  | EN IEC 61000-4-3:2020   | RF electromagnetic field disturbances |
|  | EN 61000-4-4:2012   | Electrical Fast transients            |
|  | EN 61000-4-5:2014   | Surge                                 |
|  | EN 61000-4-6:2014   | Conducted susceptibility              |
|  | EN 61000-4-8:2010   | Power-frequency Magnetic Field        |
|  | EN IEC 61000-4-11: 2020   | Dips/Voltage Interruption Variation   |

**3.3 Performance Criteria**

| Criterion | Description  |
|-----------|--|
| <b>A</b>  | No change in operational mode or degradation of performance outside of specification and no change in stored parameters.           |
| <b>B</b>  | Degradation of performance allowed during the test the EUT returning to intended operation after the test.                         |
| <b>C</b>  | Loss of function allowed during the test, provided that function is self recoverable or can be recovered by operation of controls. |

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### 3.4 Test standards and Results Summary Tables

| Test Condition  | Test Requirement                         | Test Method                              | Test Result |
|---|--|--|-------------|
| <b>EMISSION Results Summary</b>                                   |  |  |             |
| Conducted Emission on AC Mains, 150kHz to 30MHz                   | EN 55032:2015<br>+A11:2020+A1:2020       | EN 55032:2015<br>+A11:2020+A1:2020       | Pass        |
| Conducted Emission on at telecommunication ports, 150kHz to 30MHz | EN 55032:2015<br>+A11:2020+A1:2020       | EN 55032:2015<br>+A11:2020+A1:2020       | N/A         |
| Radiated Emissions, 30MHz to 6GHz                                 | EN 55032:2015<br>+A11:2020+A1:2020       | EN 55032:2015<br>+A11:2020+A1:2020       | Pass        |
| Harmonic Emissions on AC supply                                   | EN IEC 61000-3-2:2019/A2:2024            | EN IEC 61000-3-2:<br>2019/A2:2024        | N/A         |
| Voltage fluctuations on AC supply                                 | EN 61000-3-3:2013<br>+A2:2021+AC:2022-01 | EN 61000-3-3:2013<br>+A2:2021+AC:2022-01 | N/A         |
| <b>IMMUNITY Results Summary</b>                                   |  |  |             |
| Electrostatic Discharge   | EN 55035:2017+A11:2020                   | EN 61000-4-2: 2009                       | Pass        |
| Continuous RF electromagnetic field disturbances                  | EN 55035:2017+A11:2020                   | EN IEC 61000-4-3:2020                    | Pass        |
| Continuous induced RF disturbances                                | EN 55035:2017+A11:2020                   | EN 61000-4-6:2014                        | Pass        |
| Power frequency magnetic field                                    | EN 55035:2017+A11:2020                   | EN 61000-4-8: 2010                       | N/A         |
| Electrical fast transients/burst (EFT/B)                          | EN 55035:2017+A11:2020                   | EN 61000-4-4: 2012                       | Pass        |
| Surges  | EN 55035:2017+A11:2020                   | EN 61000-4-5: 2014                       | Pass        |
| Voltage dips and interruptions                                    | EN 55035:2017+A11:2020                   | EN IEC 61000-4-11: 2020                  | Pass        |
| Broadband impulsive conducted disturbances                        | EN 55035:2017+A11:2020                   | EN 61000-4-6:2014                        | N/A         |

**Note: N/A-Not applicable**

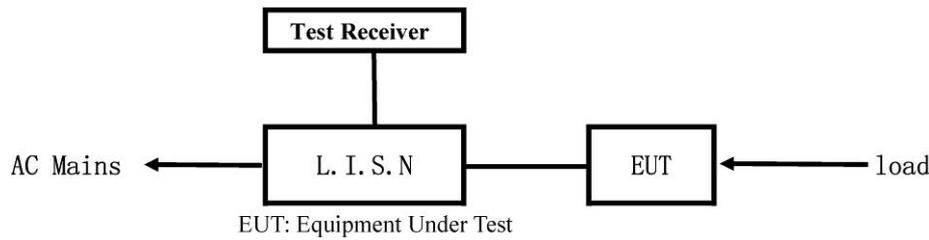
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#### 4.0 Electromagnetic Interference Test results

##### 4.1 Power line Conducted Emission Test

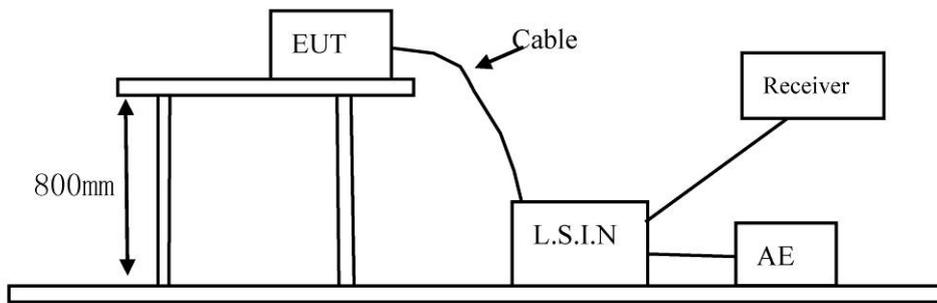
###### 4.1.1 Schematics of the test



###### 4.1.2 Test Method:

The test was performed in accordance with EN 55032:2015+A11:2020+A1:2020

###### Block diagram of Test setup



###### 4.1.3 Power line conducted Emission Limit

| Frequency(MHz) | Limits dB(μV)     |               |                   |               |
|----------------|-------------------|---------------|-------------------|---------------|
|                | Class A Equipment |               | Class B Equipment |               |
|                | Quasi-peak Level  | Average Level | Quasi-peak Level  | Average Level |
| 0.15 ~ 0.50    | 79.0              | 66.0          | 66.0~56.0*        | 56.0~46.0*    |
| 0.50 ~ 5.00    | 73.0              | 60.0          | 56.0              | 46.0          |
| 5.00 ~ 30.00   | 73.0              | 60.0          | 60.0              | 50.0          |

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

###### 4.1.4 Test Results

Limits for Conducted Emission test, please refer to limit line (Quasi-peak) and Average in the following diagram labelled as (QP)&AV

**Remark:** Calculated measurement uncertainty=3.6dB

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**A: Disturbance Voltage Limits at mains on Live terminals (150kHz to 30MHz)**

**EUT Operating Environment**

Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

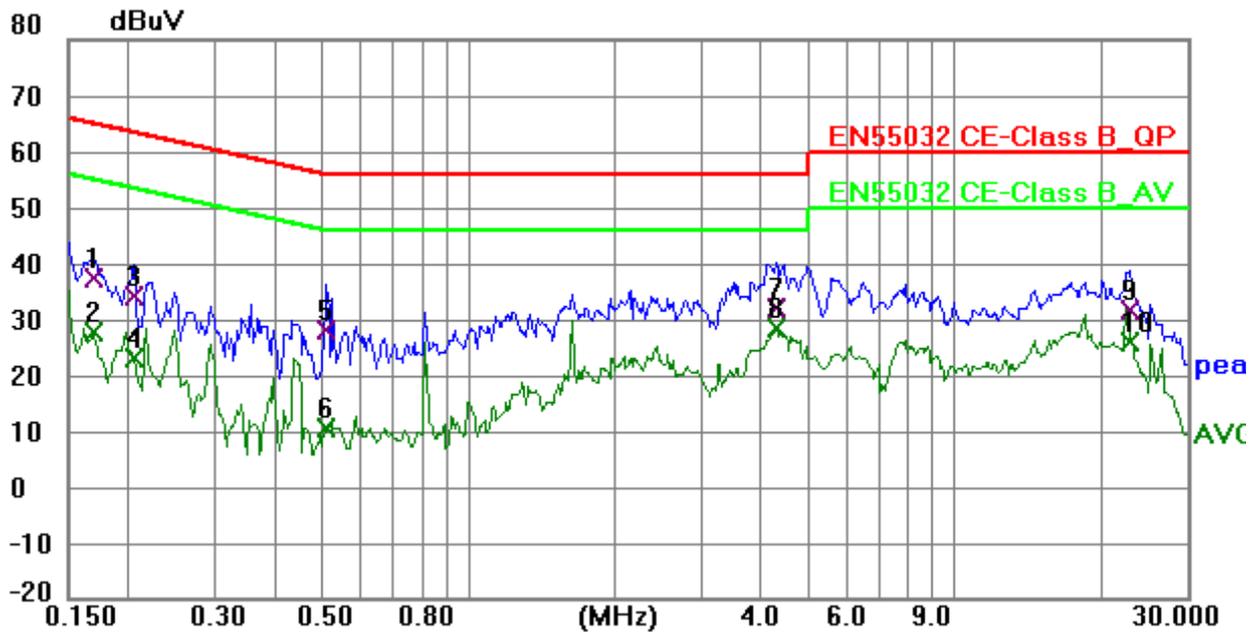
**EUT set Condition: Aux In**

**Power: AC230V/50Hz**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|
| 1   | 0.1695          | 26.85          | 10.33       | 37.18        | 64.98        | -27.80      | QP       | P   |
| 2   | 0.1695          | 17.43          | 10.33       | 27.76        | 54.98        | -27.22      | AVG      | P   |
| 3   | 0.2046          | 23.65          | 10.32       | 33.97        | 63.42        | -29.45      | QP       | P   |
| 4   | 0.2046          | 12.80          | 10.32       | 23.12        | 53.42        | -30.30      | AVG      | P   |
| 5   | 0.5127          | 17.56          | 10.40       | 27.96        | 56.00        | -28.04      | QP       | P   |
| 6   | 0.5127          | 0.16           | 10.40       | 10.56        | 46.00        | -35.44      | AVG      | P   |
| 7   | 4.2986          | 19.87          | 12.11       | 31.98        | 56.00        | -24.02      | QP       | P   |
| 8   | 4.2986          | 16.19          | 12.11       | 28.30        | 46.00        | -17.70      | AVG      | P   |
| 9   | 22.9212         | 15.82          | 15.80       | 31.62        | 60.00        | -28.38      | QP       | P   |
| 10  | 22.9212         | 10.09          | 15.80       | 25.89        | 50.00        | -24.11      | AVG      | P   |

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**B: Disturbance Voltage Limits at mains on Neutral terminals (150kHz to 30MHz)**

**EUT Operating Environment**

Temperature: 25°C      Humidity: 65%RH      Atmospheric Pressure: 101 kPa

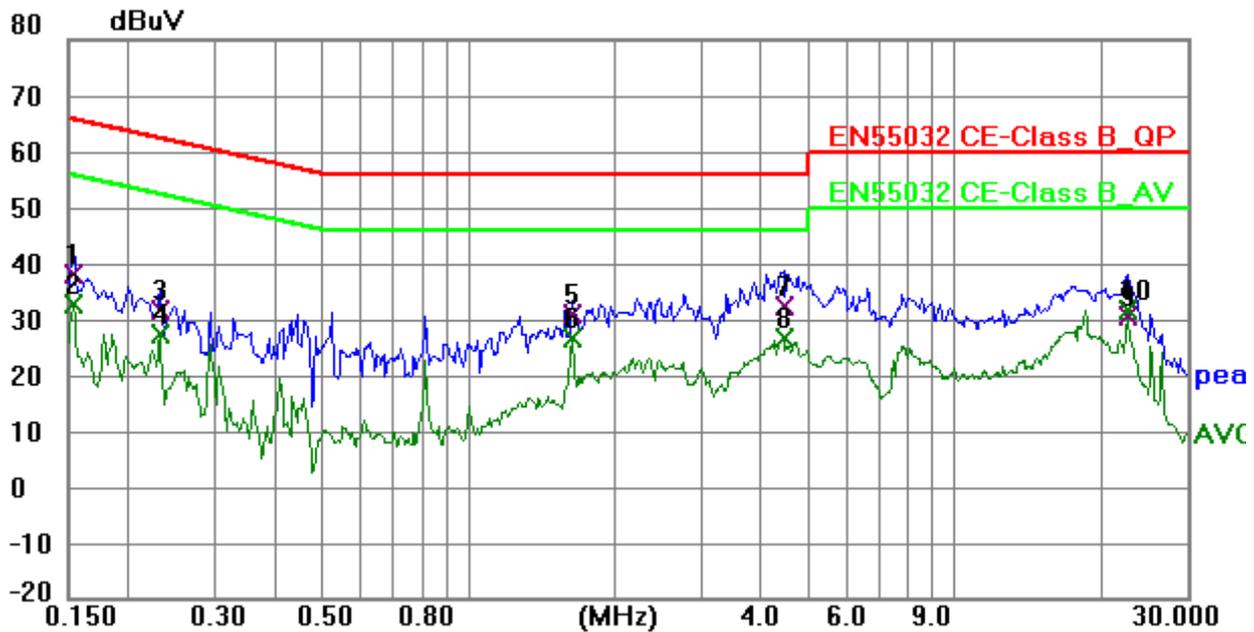
**EUT set Condition: Aux In**

**Power: AC230V/50Hz**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



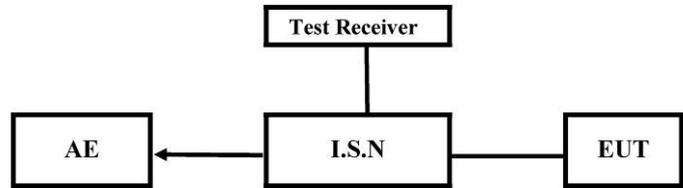
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|-----|
| 1   | 0.1539          | 27.87          | 10.34       | 38.21        | 65.79        | -27.58      | QP       | P   |
| 2   | 0.1539          | 22.31          | 10.34       | 32.65        | 55.79        | -23.14      | AVG      | P   |
| 3   | 0.2319          | 21.22          | 10.33       | 31.55        | 62.38        | -30.83      | QP       | P   |
| 4   | 0.2319          | 17.14          | 10.33       | 27.47        | 52.38        | -24.91      | AVG      | P   |
| 5   | 1.6281          | 19.79          | 11.02       | 30.81        | 56.00        | -25.19      | QP       | P   |
| 6   | 1.6281          | 15.65          | 11.02       | 26.67        | 46.00        | -19.33      | AVG      | P   |
| 7   | 4.4352          | 20.03          | 12.15       | 32.18        | 56.00        | -23.82      | QP       | P   |
| 8   | 4.4352          | 14.54          | 12.15       | 26.69        | 46.00        | -19.31      | AVG      | P   |
| 9   | 22.5702         | 14.58          | 15.88       | 30.46        | 60.00        | -29.54      | QP       | P   |
| 10  | 22.5702         | 15.89          | 15.88       | 31.77        | 50.00        | -18.23      | AVG      | P   |

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**4.2 Telecommunication ports Conducted Emission Test**

**4.2.1 Schematics of the test**

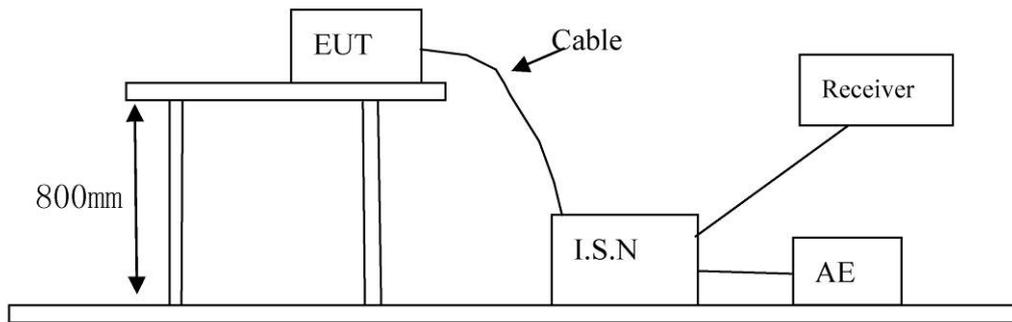


EUT: Equipment Under Test

**4.2.2 Test Method:**

The test was performed in accordance with EN 55032:2015+A11:2020+A1:2020

**Block diagram of Test setup**



**4.2.3 Telecommunication ports conducted Emission Limit**

| Frequency (MHz) | Class A Limits   |                |                |                | Class B Limits   |                |                |                |
|-----------------|------------------|----------------|----------------|----------------|------------------|----------------|----------------|----------------|
|                 | Quasi-peak Level |                | Average Level  |                | Quasi-peak Level |                | Average Level  |                |
|                 | Voltage dB(uV)   | Current dB(uA) | Voltage dB(uV) | Current dB(uA) | Voltage dB(uV)   | Current dB(uA) | Voltage dB(uV) | Current dB(uA) |
| 0.15 ~ 0.50     | 97 to 87         | 53 to 43       | 87 to 74       | 40 to 30       | 84 to 74         | 40 to 30       | 74 to 64       | 30 to 20       |
| 0.50 ~ 30.00    | 87               | 43             | 74             | 30             | 74               | 30             | 64             | 20             |

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

**4.2.4 Test Results: N/A**

Limits for Conducted Emission test, please refer to limit line (Quasi-peak) and Average in the following diagram labelled as (QP)&AV

**Remark:**

Calculated measurement uncertainty=1.9dB

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**A: Conducted Emission on Telecommunication port (150kHz to 30MHz)**

**EUT Operating Environment**

Temperature: 25°C      Humidity: 75 %RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: Normal operation mode**

**Equipment Level: Class B**

**Results: N/A**

Please refer to following diagram for individual

| Frequency<br>(MHz) | Port | Reading(dB $\mu$ V) |         | Limit(dB $\mu$ V) |         |
|--------------------|------|---------------------|---------|-------------------|---------|
|                    |      | Quasi-peak          | Average | Quasi-peak        | Average |
|                    |      |                     |         |                   |         |
|                    |      |                     |         |                   |         |

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**B: Conducted Emission on Telecommunication port (150kHz to 30MHz)**

**EUT Operating Environment**

Temperature: 25°C      Humidity: 75 %RH      Atmospheric Pressure: 101 kPa

**EUT set Condition: Normal operation mode**

**Equipment Level: Class B**

**Results: N/A**

Please refer to following diagram for individual

| Frequency (MHz) | Port | Reading(dBμA) |         | Limit(dBμA) |         |
|-----------------|------|---------------|---------|-------------|---------|
|                 |      | Quasi-peak    | Average | Quasi-peak  | Average |
|                 |      |               |         |             |         |
|                 |      |               |         |             |         |

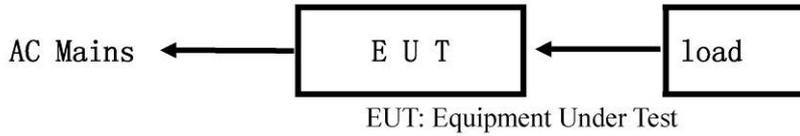
**Note: This test item is not applicable because there is no telecommunication port**

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**4.3 Radiated Disturbance Test**

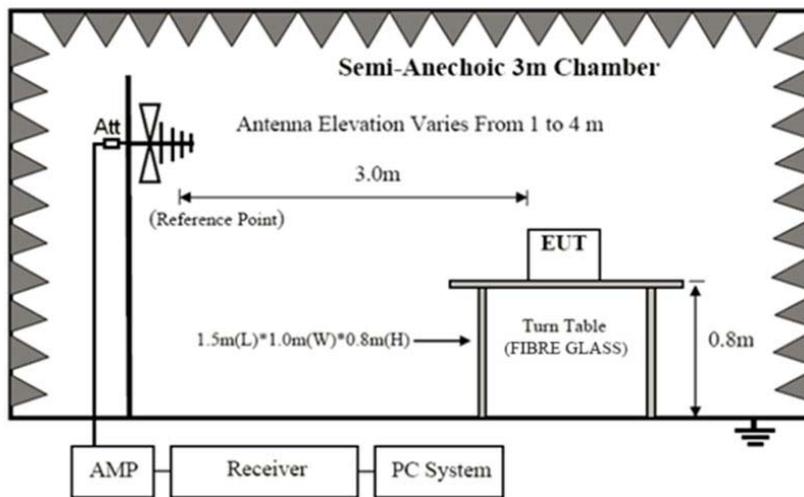
**4.3.1 Schematics of the test**



**4.3.2 Test Method:**

The test was performed in accordance with EN 55032:2015+A11:2020+A1:2020

**Block diagram of Test setup**



**4.3.3 Radiated Disturbance Test Limit**

| Frequency Range (MHz) | Quasi-Peak limits (dB $\mu$ V/m) |                |
|-----------------------|----------------------------------|----------------|
|                       | Class A Limits                   | Class B Limits |
| 30-230                | 50.00                            | 40.00          |
| 230-1000              | 57.00                            | 47.00          |
| 1000-3000             | 56(AV)/76(PK)                    | 50(AV)/70(PK)  |
| 3000-6000             | 60(AV)/80(PK)                    | 54(AV)/74(PK)  |

Note: The lower limit shall apply at the transition frequencies

**4.3.4 Test result**

Limits for Radiated Disturbance test, please refer to limit line (Quasi-peak) in the following diagram labelled as (QP)

**Remark:**

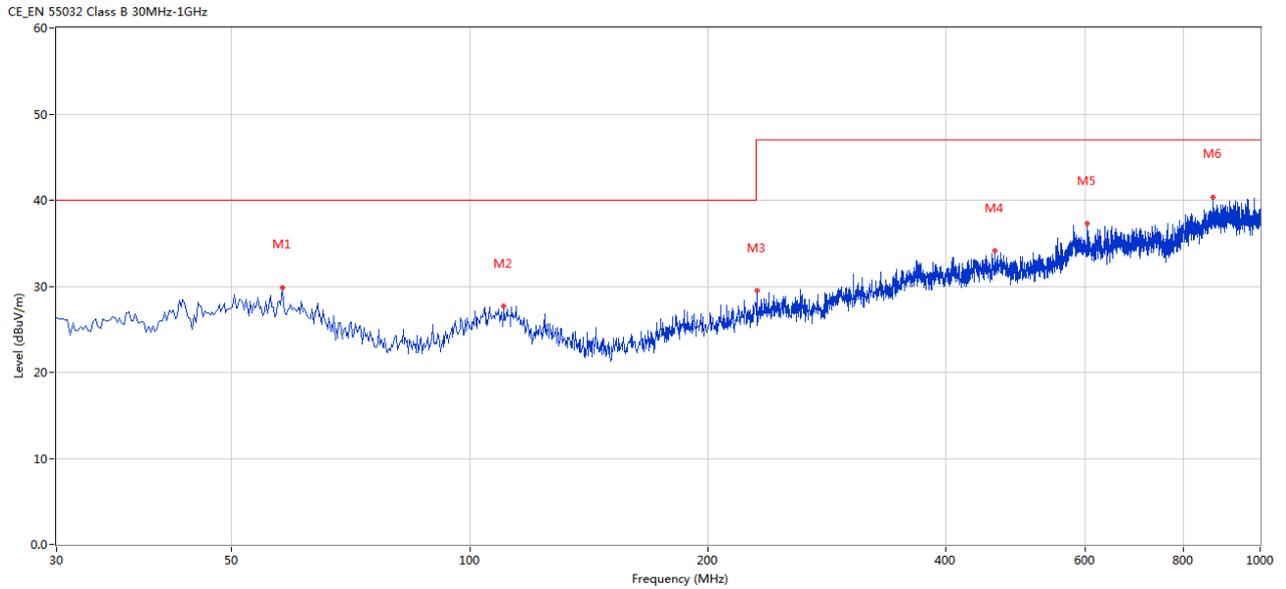
Calculated measurement uncertainty=4.7dB

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**A: Radiated Disturbance (30MHz----1000MHz)**

|                 |                                   |                |                     |
|-----------------|-----------------------------------|----------------|---------------------|
| Project Number: | CASE3                             | Test Time:     | 2025-06-24_14.37.29 |
| EUT Name:       | ACTIVE NOISE CANCELLINGHEADSET    | Test Engineer: | JERRY               |
| Manufacturer:   | Eastern Times Technology Co., Ltd | Test Standard: | EN 55032            |
| Model:          | H610                              | Work Addition: | Charging            |
| Temp.(°C):      | 25                                | Load:          |                     |
| Hum.:           | 65%                               | Test Voltage:  | 230V~, 50Hz         |



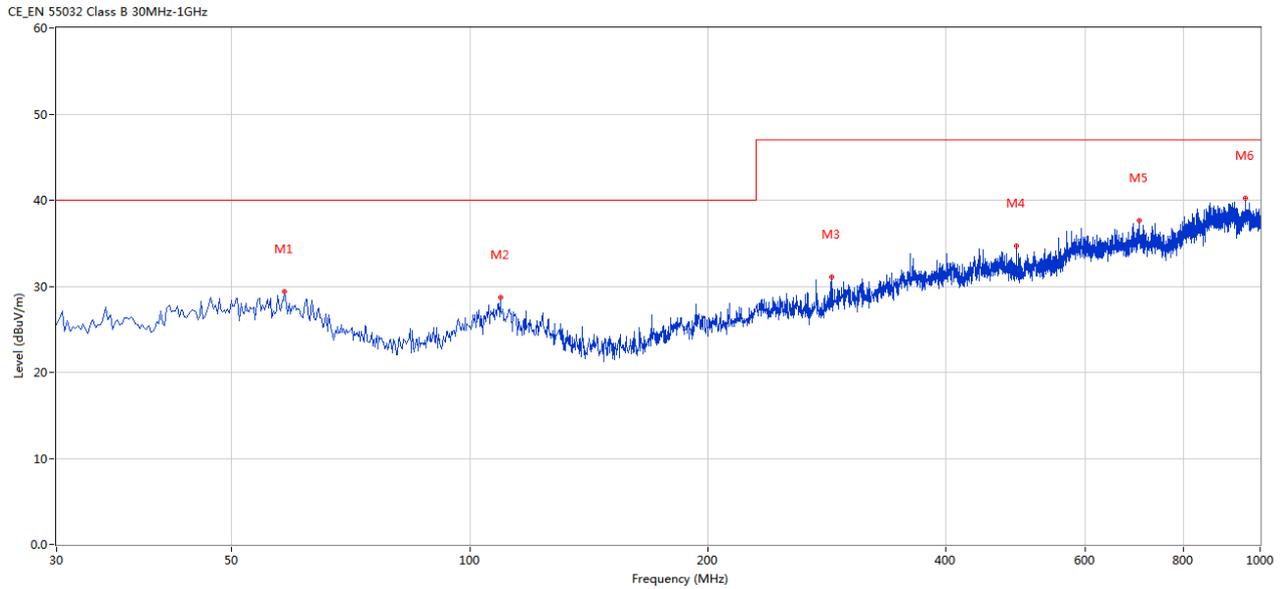
| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 57.881          | 29.88            | -4.90       | 40.0           | 10.12       | Peak     | 334.00         | 100         | Horizontal | Pass    |
| 2   | 110.490         | 27.71            | -5.95       | 40.0           | 12.29       | Peak     | 162.00         | 100         | Horizontal | Pass    |
| 3   | 230.740         | 29.51            | -5.62       | 47.0           | 17.49       | Peak     | 236.00         | 100         | Horizontal | Pass    |
| 4   | 462.027         | 34.14            | -0.83       | 47.0           | 12.86       | Peak     | 189.00         | 100         | Horizontal | Pass    |
| 5   | 603.854         | 37.32            | 1.52        | 47.0           | 9.68        | Peak     | 8.00           | 100         | Horizontal | Pass    |
| 6   | 870.780         | 40.37            | 5.13        | 47.0           | 6.63        | Peak     | 307.00         | 100         | Horizontal | Pass    |

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**B: Radiated Disturbance (30MHz----1000MHz)**

|                 |                                   |                |                     |
|-----------------|-----------------------------------|----------------|---------------------|
| Project Number: | CASE3                             | Test Time:     | 2025-06-24_14.35.55 |
| EUT Name:       | ACTIVE NOISE CANCELLINGHEADSET    | Test Engineer: | JERRY               |
| Manufacturer:   | Eastern Times Technology Co., Ltd | Test Standard: | EN 55032            |
| Model:          | H610                              | Work Addition: | Charging            |
| Temp.(°C):      | 25                                | Load:          |                     |
| Hum.:           | 65%                               | Test Voltage:  | 230V~, 50Hz         |



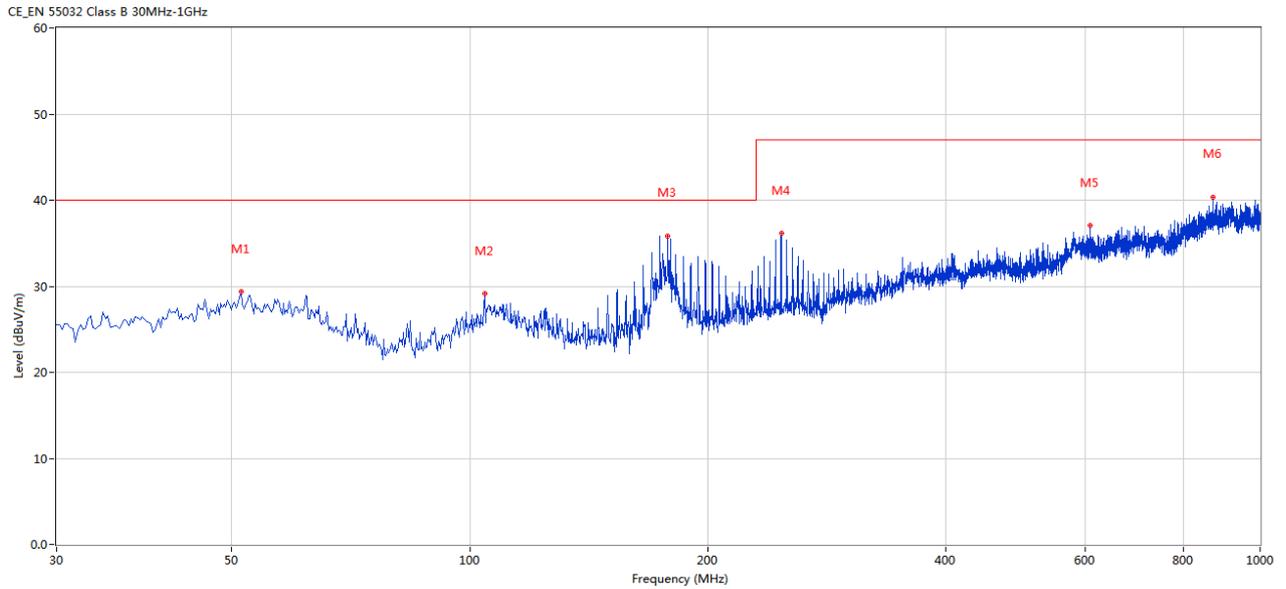
| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 58.365          | 29.39            | -5.02       | 40.0           | 10.61       | Peak     | 346.00         | 100         | Vertical | Pass    |
| 2   | 109.278         | 28.70            | -5.98       | 40.0           | 11.30       | Peak     | 314.00         | 100         | Vertical | Pass    |
| 3   | 286.986         | 31.09            | -4.51       | 47.0           | 15.91       | Peak     | 168.00         | 100         | Vertical | Pass    |
| 4   | 491.362         | 34.69            | -1.13       | 47.0           | 12.31       | Peak     | 289.00         | 100         | Vertical | Pass    |
| 5   | 703.739         | 37.58            | 2.40        | 47.0           | 9.42        | Peak     | 314.00         | 100         | Vertical | Pass    |
| 6   | 958.785         | 40.23            | 5.19        | 47.0           | 6.77        | Peak     | 310.00         | 100         | Vertical | Pass    |

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**C: Radiated Disturbance (30MHz----1000MHz)**

|                 |                                   |                |                     |
|-----------------|-----------------------------------|----------------|---------------------|
| Project Number: | CASE3                             | Test Time:     | 2025-06-24_14.12.39 |
| EUT Name:       | ACTIVE NOISE CANCELLINGHEADSET    | Test Engineer: | JERRY               |
| Manufacturer:   | Eastern Times Technology Co., Ltd | Test Standard: | EN 55032            |
| Model:          | H610                              | Work Addition: | Aux In              |
| Temp.(°C):      | 25                                | Load:          |                     |
| Hum.:           | 65%                               | Test Voltage:  | DC3.7V              |



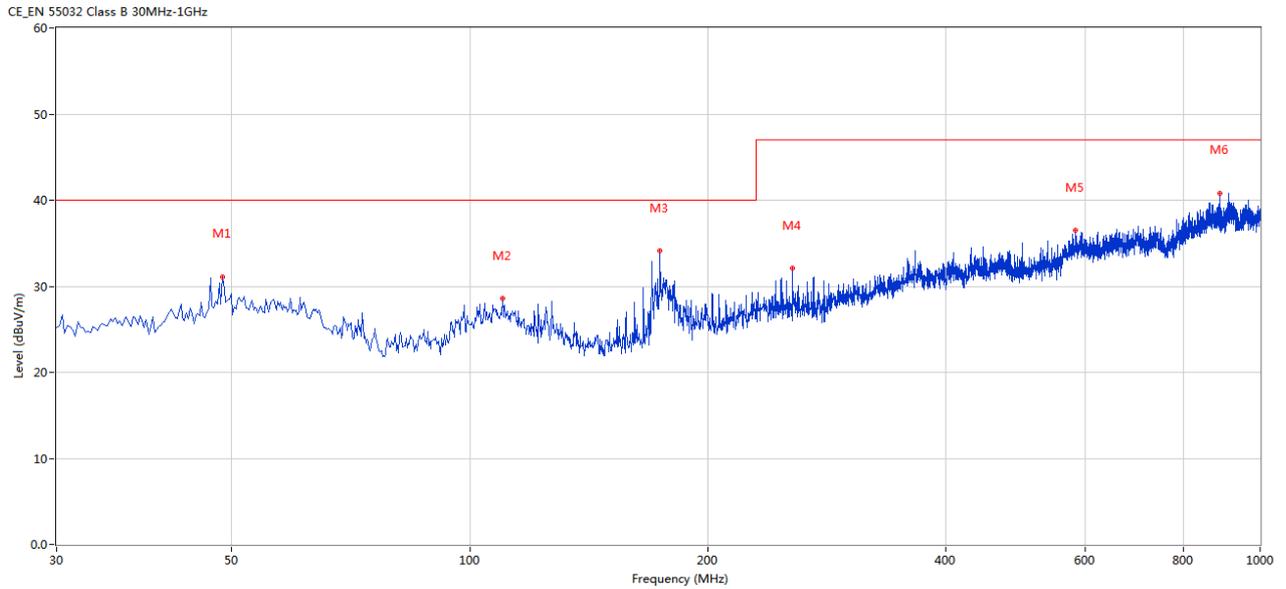
| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna    | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|------------|---------|
| 1   | 51.335          | 29.34            | -4.95       | 40.0           | 10.66       | Peak     | 360.00         | 100         | Horizontal | Pass    |
| 2   | 104.429         | 29.12            | -6.36       | 40.0           | 10.88       | Peak     | 272.00         | 100         | Horizontal | Pass    |
| 3   | 178.130         | 35.82            | -8.20       | 40.0           | 4.18        | Peak     | 119.00         | 100         | Horizontal | Pass    |
| 4   | 247.953         | 36.11            | -5.23       | 47.0           | 10.89       | Peak     | 115.00         | 100         | Horizontal | Pass    |
| 5   | 609.188         | 37.05            | 1.45        | 47.0           | 9.95        | Peak     | 83.00          | 100         | Horizontal | Pass    |
| 6   | 870.780         | 40.37            | 5.13        | 47.0           | 6.63        | Peak     | 308.00         | 100         | Horizontal | Pass    |

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**D: Radiated Disturbance (30MHz----1000MHz)**

|                 |                                   |                |                     |
|-----------------|-----------------------------------|----------------|---------------------|
| Project Number: | CASE3                             | Test Time:     | 2025-06-24_14.14.29 |
| EUT Name:       | ACTIVE NOISE CANCELLINGHEADSET    | Test Engineer: | JERRY               |
| Manufacturer:   | Eastern Times Technology Co., Ltd | Test Standard: | EN 55032            |
| Model:          | H610                              | Work Addition: | Aux In              |
| Temp.(°C):      | 25                                | Load:          |                     |
| Hum.:           | 65%                               | Test Voltage:  | DC3.7V              |



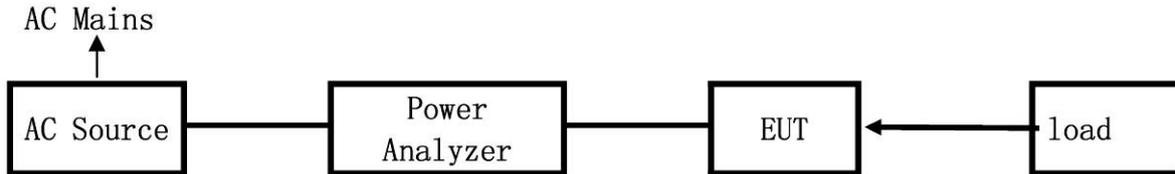
| No. | Frequency (MHz) | Results (dBuV/m) | Factor (dB) | Limit (dBuV/m) | Margin (dB) | Detector | Table (Degree) | Height (cm) | Antenna  | Verdict |
|-----|-----------------|------------------|-------------|----------------|-------------|----------|----------------|-------------|----------|---------|
| 1   | 48.668          | 31.10            | -5.27       | 40.0           | 8.90        | Peak     | 76.00          | 100         | Vertical | Pass    |
| 2   | 110.005         | 28.58            | -5.92       | 40.0           | 11.42       | Peak     | 36.00          | 100         | Vertical | Pass    |
| 3   | 174.009         | 34.15            | -8.50       | 40.0           | 5.85        | Peak     | 27.00          | 100         | Vertical | Pass    |
| 4   | 255.954         | 32.08            | -5.40       | 47.0           | 14.92       | Peak     | 25.00          | 100         | Vertical | Pass    |
| 5   | 584.459         | 36.51            | 1.71        | 47.0           | 10.49       | Peak     | 24.00          | 100         | Vertical | Pass    |
| 6   | 890.417         | 40.84            | 4.91        | 47.0           | 6.16        | Peak     | 1.00           | 100         | Vertical | Pass    |

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#### 4.4 Harmonic Current Emission Test

##### 4.4.1 Schematic of the test

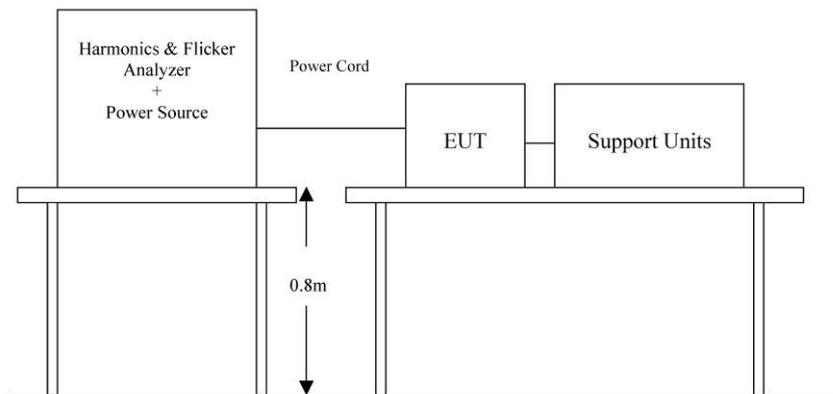


EUT: Equipment Under Test

##### 4.4.2 Test Method:

The test was performed in accordance with EN IEC 61000-3-2:2019/A2:2024

##### Block diagram of Test setup



##### 4.4.3 Limits of Harmonic Current Emission For Class A

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| Harmonic order<br>n   | Maximum permissible<br>harmonic current<br>A |
|-----------------------|--|
| <b>Odd harmonics</b>  |  |
| 3                     | 2,30   |
| 5                     | 1,14   |
| 7                     | 0,77   |
| 9                     | 0,40   |
| 11                    | 0,33   |
| 13                    | 0,21   |
| 15 ≤ n ≤ 39           | 0,15 $\frac{15}{n}$                          |
| <b>Even harmonics</b> |  |
| 2                     | 1,08   |
| 4                     | 0,43   |
| 6                     | 0,30   |
| 8 ≤ n ≤ 40            | 0,23 $\frac{8}{n}$                           |

**4.4.4 Test Results**

Please refer to the following pages

**Harmonic Current Emission Test**

**EUT Operating Environment**

Temperature: 25°C      Humidity: 53%RH      Atmospheric Pressure: 101 kPa

**EUT set Condition:**

**Results: N/A**

N/A ---the input power less than 75W.

Please refer to following diagram for individual

Harmonic results as a% of the limits

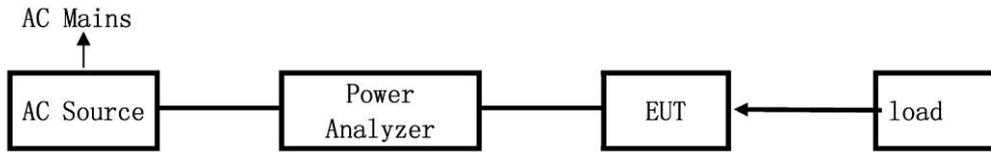
| No | (Test<br>result/Limit) % |
|----|--------------------------|----|--------------------------|----|--------------------------|----|--------------------------|
| 1  |                          | 11 |                          | 21 |                          | 31 |                          |
| 2  |                          | 12 |                          | 22 |                          | 32 |                          |
| 3  |                          | 13 |                          | 23 |                          | 33 |                          |
| 4  |                          | 14 |                          | 24 |                          | 34 |                          |
| 5  |                          | 15 |                          | 25 |                          | 35 |                          |
| 6  |                          | 16 |                          | 26 |                          | 36 |                          |
| 7  |                          | 17 |                          | 27 |                          | 37 |                          |
| 8  |                          | 18 |                          | 28 |                          | 38 |                          |
| 9  |                          | 19 |                          | 29 |                          | 39 |                          |
| 10 |                          | 20 |                          | 30 |                          | 40 |                          |

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#### 4.5 Voltage Fluctuations & Flicker Test

##### 4.5.1 Schematic of the test

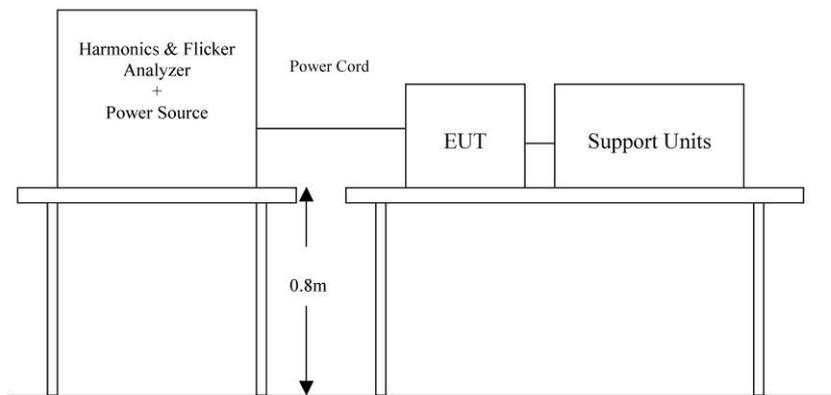


EUT: Equipment Under Test

##### 4.5.2 Test Method:

The test was performed in accordance with EN 61000-3-3:2013+A2:2021+AC:2022-01

##### Block diagram of Test setup



##### 4.5.3 Test Results

Result: N/A

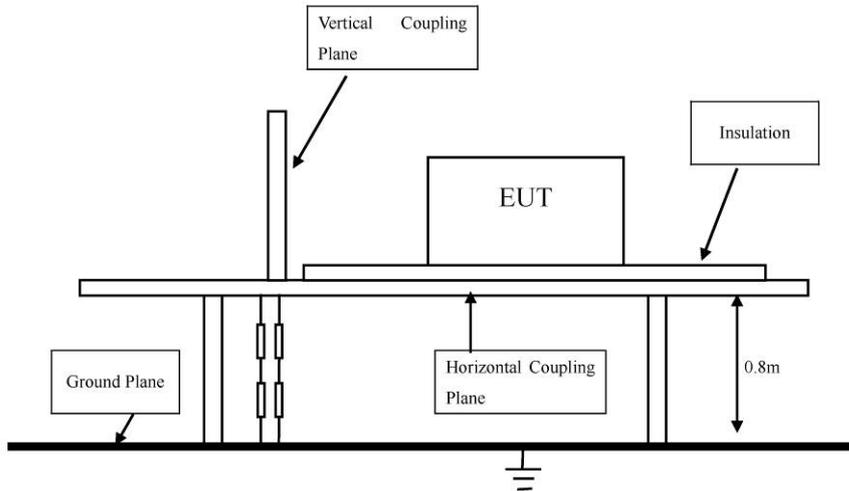
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**5.0 Immunity Test**

**5.1 Electrostatic Discharge**

**5.1.1 Schematic of the test**



**5.1.2 Test method**

The test was performed in accordance with EN 61000-4-2: 2009

**5.1.3 Test severity**

±4kV for direct & in-direct Contact Discharge

±8kV for air Discharge

Performance Criterion Require: **B** (Please see following table)

**5.1.4 Susceptibility performance Criteria and Severity level**

| Criterion | Description  |
|-----------|--|
| <b>A</b>  | No change in operational mode or degradation of performance outside of specification and no change in stored parameters.           |
| <b>B</b>  | Degradation of performance allowed during the test the EUT returning to intended operation after the test.                         |
| <b>C</b>  | Loss of function allowed during the test, provided that function is self recoverable or can be recovered by operation of controls. |

**Severity Level**

| Level | Test Voltage Direct & in-direct contact Discharge (kV) | Test Voltage Air discharge(kV) |
|-------|--|--------------------------------|
| 1     | ±2kV   | ±2kV                           |
| 2     | ±4kV   | ±4kV                           |
| 3     | ±6kV   | ±8kV                           |
| 4     | ±8kV   | ±15kV                          |

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### 5.1.5 Test Result

#### EUT Operating Environment

Temperature: 25°C      Humidity: 53%RH      Atmospheric Pressure: 101 kPa

Please refer to the following table for individual results.

| Location                        | Discharge Method  | Test Voltage                                     | Results |
|---------------------------------|-------------------|--|---------|
| HCP (Horizontal coupling plane) | In-Direct         | $\pm 2\text{kV}, \pm 4\text{kV}$                 | Pass    |
| VCP (Vertical Coupling Plane)   | In-Direct         | $\pm 2\text{kV}, \pm 4\text{kV}$                 | Pass    |
| Type-C Port                     | Contact Discharge | $\pm 2\text{kV}, \pm 4\text{kV}$                 | Pass    |
| Screws                          | Contact Discharge | $\pm 2\text{kV}, \pm 4\text{kV}$                 | Pass    |
| Aux In Port                     | Contact Discharge | $\pm 2\text{kV}, \pm 4\text{kV}$                 | Pass    |
|                                 |                   |  |         |
| Enclosure                       | Air Discharge     | $\pm 2\text{kV}, \pm 4\text{kV}, \pm 8\text{kV}$ | Pass    |
| Hole                            | Air Discharge     | $\pm 2\text{kV}, \pm 4\text{kV}, \pm 8\text{kV}$ | Pass    |
| Keys                            | Air Discharge     | $\pm 2\text{kV}, \pm 4\text{kV}, \pm 8\text{kV}$ | Pass    |

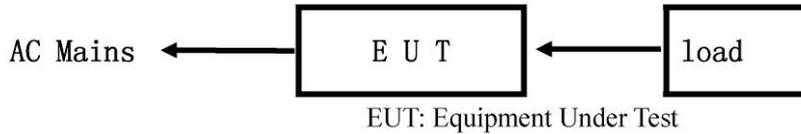
**Remark:** Calculated measurement uncertainty= 0.2kV

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**5.2 RF field strength susceptibility (80MHz-1000MHz, 1800MHz, 2600MHz, 3500MHz, 5000MHz)**

**5.2.1 Schematics of the test**



**5.2.2 Test Method:**

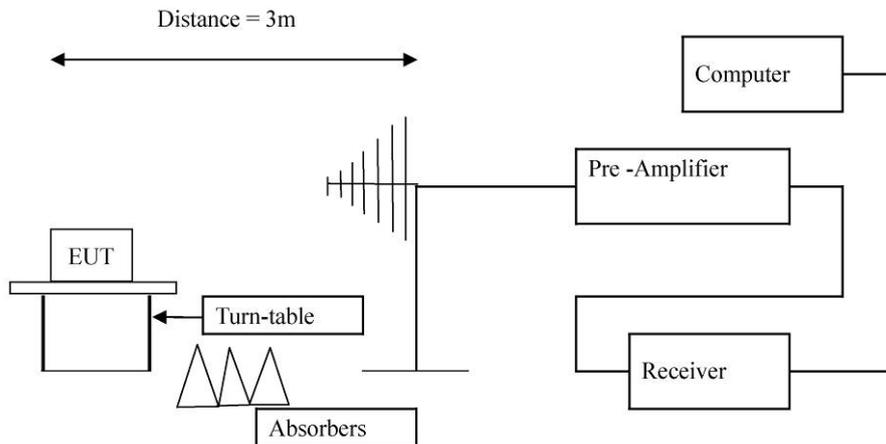
The test was performed in accordance with EN IEC 61000-4-3:2020

Severity: Level 2 (3V/m)

Modulation: 80% AM

Performance Criterion Require: A (Please see following table)

**Block diagram of Test setup**



**5.2.3 Susceptibility performance Criteria and severity Level**

Susceptibility performance Criteria

| Criterion | Description  |
|-----------|--|
| <b>A</b>  | No change in operational mode or degradation of performance outside of specification and no change in stored parameters.           |
| <b>B</b>  | Degradation of performance allowed during the test the EUT returning to intended operation after the test.                         |
| <b>C</b>  | Loss of function allowed during the test, provided that function is self recoverable or can be recovered by operation of controls. |

**Severity Level**

| Level | Field Strength (V/m) |
|-------|----------------------|
| 1     | 1                    |
| 2     | 3                    |
| 3     | 10                   |

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**5.2.4 Test Result:**

**EUT Operating Environment**

Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 kPa

Please refer to the following table for individual results.

| Frequency (MHz)                 | Face | Polarity   | Level (V/m) | Dwell Time(s) | Sweep Rate (%) | Results |
|---------------------------------|------|------------|-------------|---------------|----------------|---------|
| 80-1000                         | 0°   | Horizontal | 3           | 1             | 1              | Pass    |
| 80-1000                         | 90°  | Horizontal | 3           | 1             | 1              | Pass    |
| 80-1000                         | 180° | Horizontal | 3           | 1             | 1              | Pass    |
| 80-1000                         | 270° | Horizontal | 3           | 1             | 1              | Pass    |
| 80-1000                         | 0°   | Vertical   | 3           | 1             | 1              | Pass    |
| 80-1000                         | 90°  | Vertical   | 3           | 1             | 1              | Pass    |
| 80-1000                         | 180° | Vertical   | 3           | 1             | 1              | Pass    |
| 80-1000                         | 270° | Vertical   | 3           | 1             | 1              | Pass    |
| 1800,<br>2600,<br>3500,<br>5000 | 0°   | Horizontal | 3           | 1             | 1              | Pass    |
|                                 | 90°  | Horizontal | 3           | 1             | 1              | Pass    |
|                                 | 180° | Horizontal | 3           | 1             | 1              | Pass    |
|                                 | 270° | Horizontal | 3           | 1             | 1              | Pass    |
| 1800,<br>2600,<br>3500,<br>5000 | 0°   | Vertical   | 3           | 1             | 1              | Pass    |
|                                 | 90°  | Vertical   | 3           | 1             | 1              | Pass    |
|                                 | 180° | Vertical   | 3           | 1             | 1              | Pass    |
|                                 | 270° | Vertical   | 3           | 1             | 1              | Pass    |

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**5.3 Electrical Fast Transient/Burst (EFT/B) immunity test**

**5.3.1 Schematics of the test**



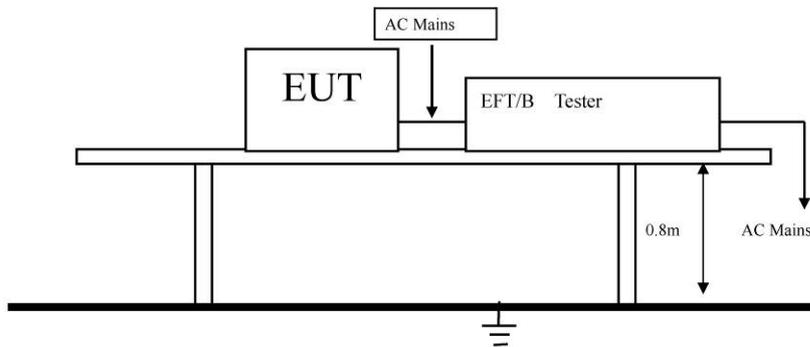
**5.3.2 Test Method**

The test was performed in accordance with EN 61000-4-4:2012

Severity: Level 2 (1kV)

Performance Criterion Require: **B** (Please see following table)

**Block diagram of Test setup**



**5.3.3 Susceptibility performance Criteria and Severity Level**

| Criterion | Description  |
|-----------|--|
| <b>A</b>  | No change in operational mode or degradation of performance outside of specification and no change in stored parameters.           |
| <b>B</b>  | Degradation of performance allowed during the test the EUT returning to intended operation after the test.                         |
| <b>C</b>  | Loss of function allowed during the test, provided that function is self recoverable or can be recovered by operation of controls. |

**Severity Level**

| Level | Open Circuit output Test Voltage ± 10% |   |
|-------|--|---|
|       | On power Supply Lines                  | On I/O (Input/output) Signal data and control lines |
| 1     | 0.5kV                                  | 0.5kV   |
| 2     | 1kV                                    | 1kV   |
| 3     | 2kV                                    | 2kV   |
| 4     | 4kV                                    | 4kV   |
| X     | Special                                | Special   |

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### 5.3.4 Test Results

#### EUT Operating Environment

Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 kPa

Please refer to the following table for individual results.

Inject location: AC mains

| Inject Line | Voltage<br>kV | Inject<br>Times (s) | Method | Results |
|-------------|---------------|---------------------|--------|---------|
| L           | ± 1           | 120                 | Direct | Pass    |
| N           | ± 1           | 120                 | Direct | Pass    |
| L-N         | ± 1           | 120                 | Direct | Pass    |

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**5.4 Surge test**

**5.4.1 Schematics of the test**



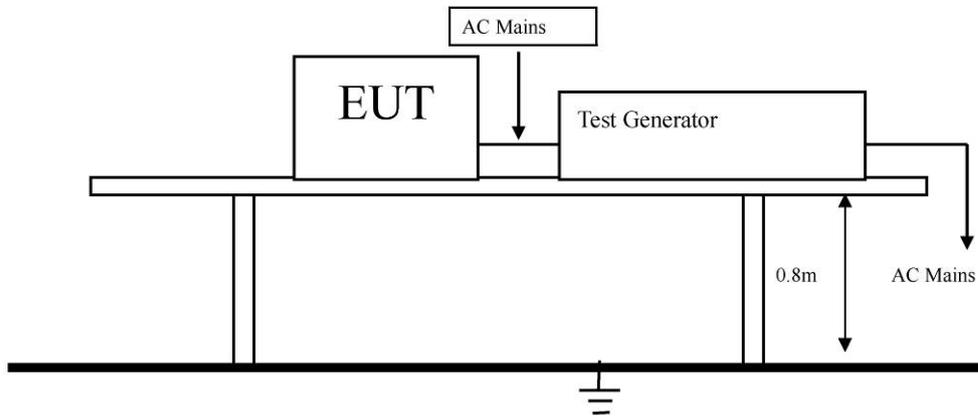
**5.4.2 Test Method:**

The test was performed in accordance with EN 61000-4-5:2014

Severity: Level 2 (Line to Neutral at 1kV)

Performance Criterion Require: B (Please see following table)

**Block diagram of Test setup**



**5.4.3 Susceptibility performance Criteria and Severity Level**

Susceptibility performance Criteria

| Criterion | Description  |
|-----------|--|
| <b>A</b>  | No change in operational mode or degradation of performance outside of specification and no change in stored parameters.           |
| <b>B</b>  | Degradation of performance allowed during the test the EUT returning to intended operation after the test.                         |
| <b>C</b>  | Loss of function allowed during the test, provided that function is self recoverable or can be recovered by operation of controls. |

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Severity Level

| Severity Level | Open-Circuit Test Voltage<br>kV |
|----------------|---------------------------------|
| 1              | 0.5                             |
| 2              | 1.0                             |
| 3              | 2.0                             |
| 4              | 4.0                             |
| *              | Special                         |

5.4.4 Test Results

**EUT Operating Environment**

Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 kPa

Please refer to the following table for individual results.

Test location:

| Location | Polarity | Phase Angle | No of Pulse | Pulse Voltage(kV) | Results |
|----------|----------|-------------|-------------|-------------------|---------|
| L-N      | +        | 90          | 5           | 1.0               | Pass    |
|          | -        | 270         | 5           | 1.0               | Pass    |

The report refers only to the sample tested and does not apply to the bulk.

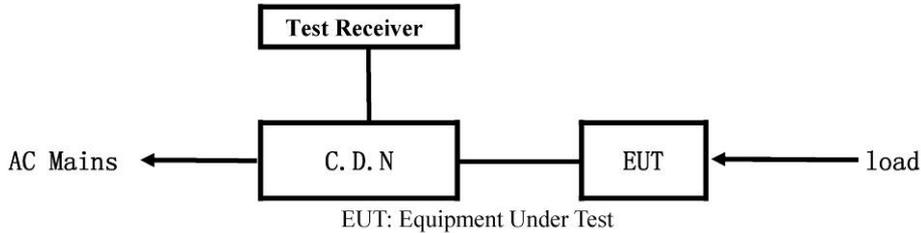
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**5.5 Conducted Immunity test**

**5.5.1 Schematics of the test**



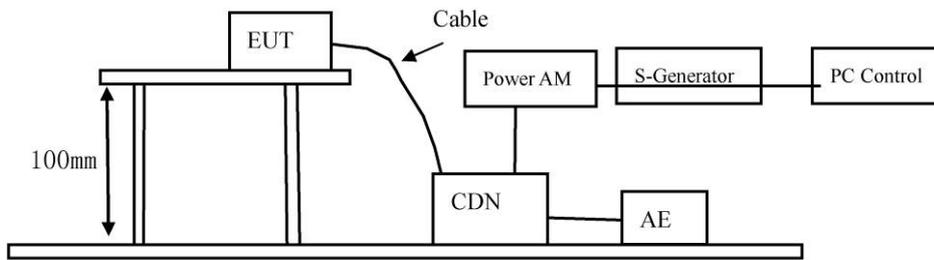
**5.5.2 Test Method**

The test was performed in accordance with EN 61000-4-6:2014

Severity: Level 2 (3 V rms),0.15MHz—80MHz

Performance Criterion Require: A (Please see following table)

**Block diagram of Test setup**



**5.5.3 Susceptibility performance Criteria and Severity Level**

Susceptibility performance Criteria

| Criterion | Description  |
|-----------|--|
| <b>A</b>  | No change in operational mode or degradation of performance outside of specification and no change in stored parameters.           |
| <b>B</b>  | Degradation of performance allowed during the test the EUT returning to intended operation after the test.                         |
| <b>C</b>  | Loss of function allowed during the test, provided that function is self recoverable or can be recovered by operation of controls. |

Severity Level

| Severity Level | Voltage Level (e.m.f) V |
|----------------|-------------------------|
| 1              | 1                       |
| 2              | 3                       |
| 3              | 10                      |
| *              | Special                 |

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#### 5.5.4 Test Results:

##### EUT Operating Environment

Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 KPa

Please refer to the following table for individual results.

| Frequency Range (MHz) | Injected Position | Strength      | Criterion | Result |
|-----------------------|-------------------|---------------|-----------|--------|
| 0.15 - 10             | AC Line           | 3V (rms)      | A         | Pass   |
| 10 - 30               | AC Line           | 3 to 1V (rms) | A         | Pass   |
| 30 - 80               | AC Line           | 1V (rms)      | A         | Pass   |

Note: the amplitude of a test level varies over a given frequency range, it changes linearly with respect to the logarithm of the frequency

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**5.6 Power-Frequency magnetic field test**

**5.6.1 Schematics of the test**



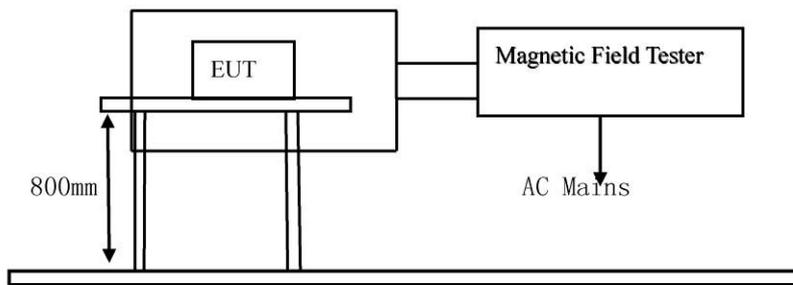
**5.6.2 Test Method**

The test was performed in accordance with EN 61000-4-8:2010

Severity: Level 1 (1A/m),

Performance Criterion Require: A (Please see following table)

**Block diagram of Test setup**



**5.6.3 Susceptibility performance Criteria and Severity Level**

Susceptibility performance Criteria

| Criterion | Description  |
|-----------|--|
| <b>A</b>  | No change in operational mode or degradation of performance outside of specification and no change in stored parameters.           |
| <b>B</b>  | Degradation of performance allowed during the test the EUT returning to intended operation after the test.                         |
| <b>C</b>  | Loss of function allowed during the test, provided that function is self recoverable or can be recovered by operation of controls. |

Severity Level

| Severity Level | Magnetic Field Strength A/m |
|----------------|-----------------------------|
| 1              | 1                           |
| 2              | 3                           |
| 3              | 10                          |
| 4              | 30                          |
| 5              | 100                         |
| *              | Special                     |

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**5.6.4 Test Results:**

**EUT Operating Environment**

Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 kPa

Please refer to the following table for individual results.

| Test Level | Testing Duration | Coil Orientation | Criterion | Result |
|------------|------------------|------------------|-----------|--------|
| 1A/m       | 5 Mins           | X                | A         | N/A    |
| 1A/m       | 5 Mins           | Y                | A         | N/A    |
| 1A/m       | 5 Mins           | Z                | A         | N/A    |

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**5.7 Voltage Dips/Interruptions immunity test**

**5.7.1 Schematics of the test**

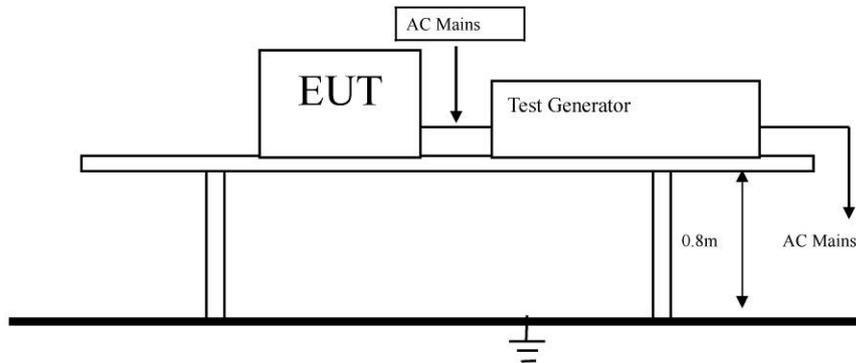


**5.7.2 Test Method:**

The test was performed in accordance with EN IEC 61000-4-11: 2020

Performance Criterion Require: C&B (Please see following table)

**Block diagram of Test setup**



**5.7.3 Susceptibility performance Criteria and Severity Level**

Susceptibility performance Criteria

| Criterion | Description  |
|-----------|--|
| <b>A</b>  | No change in operational mode or degradation of performance outside of specification and no change in stored parameters.           |
| <b>B</b>  | Degradation of performance allowed during the test the EUT returning to intended operation after the test.                         |
| <b>C</b>  | Loss of function allowed during the test, provided that function is self recoverable or can be recovered by operation of controls. |

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Severity Level

|                       |                |           |                    |                      |
|-----------------------|----------------|-----------|--------------------|----------------------|
| Voltage Dip           | Test Level %Ut | Reduction | Duration (Periods) | Performance Criteria |
|                       | <5             | >95       | 0.5                | B                    |
|                       | 70             | 30        | 25                 | C                    |
| Voltage Interceptions | Test Level %Ut | Reduction | Duration (Periods) | Performance Criteria |
|                       | <5             | >95       | 250                | C                    |

**5.7.4 Test Result:**

**EUT Operating Environment**

Temperature: 25°C      Humidity: 75%RH      Atmospheric Pressure: 101 kPa

Please refer to the following table for individual results.

Voltage Dip:

| Test Level % Ut | Reduction | Duration (periods) | Phase Angle | Meet Criterion | Result |
|-----------------|-----------|--------------------|-------------|----------------|--------|
| 0               | 100       | 0.5                | 0° - 360°   | B              | Pass   |
| 70              | 30        | 25                 | 0° - 360°   | B              | Pass   |

Voltage Interceptions:

| Test Level % Ut | Reduction | Duration (periods) | Phase Angle | Meet Criterion | Result |
|-----------------|-----------|--------------------|-------------|----------------|--------|
| 0               | 100       | 250                | 0° - 360°   | B              | Pass   |

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## 6.0 Product Labelling

### 6.1 CE Mark label specification

Text of the mark is black or white in color and is left justified. Labels are printed in indelible ink on permanent adhesive backing and shall be affixed at a conspicuous location on the EUT or silk-screened onto the EUT.



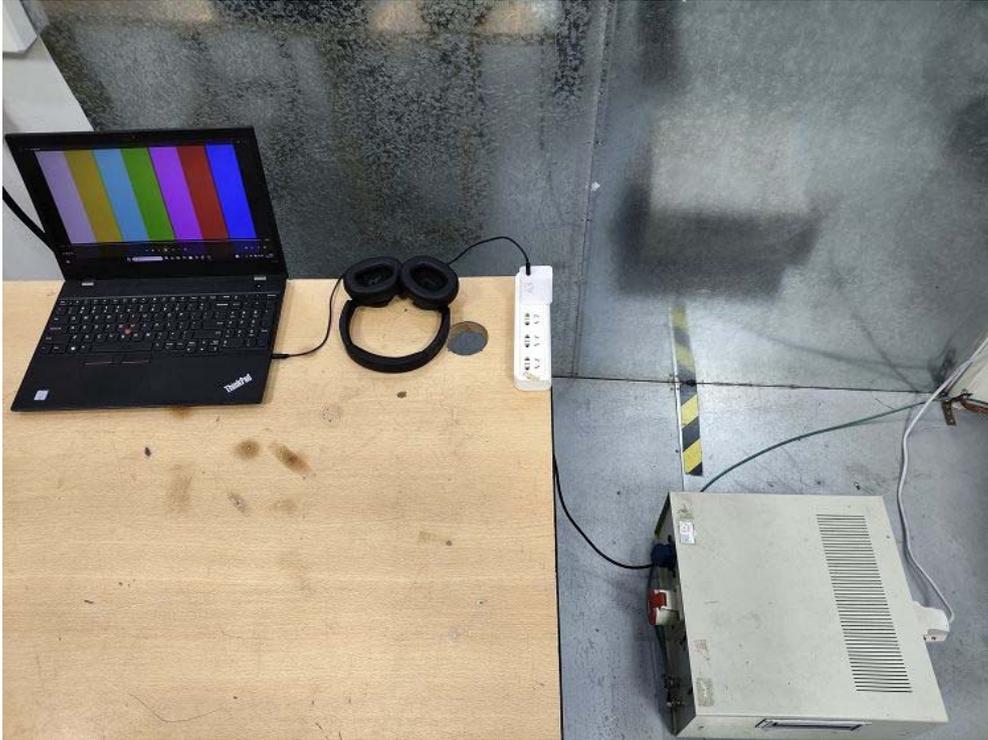
### 6.2 Mark Location: Rear enclosure

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Appendix:

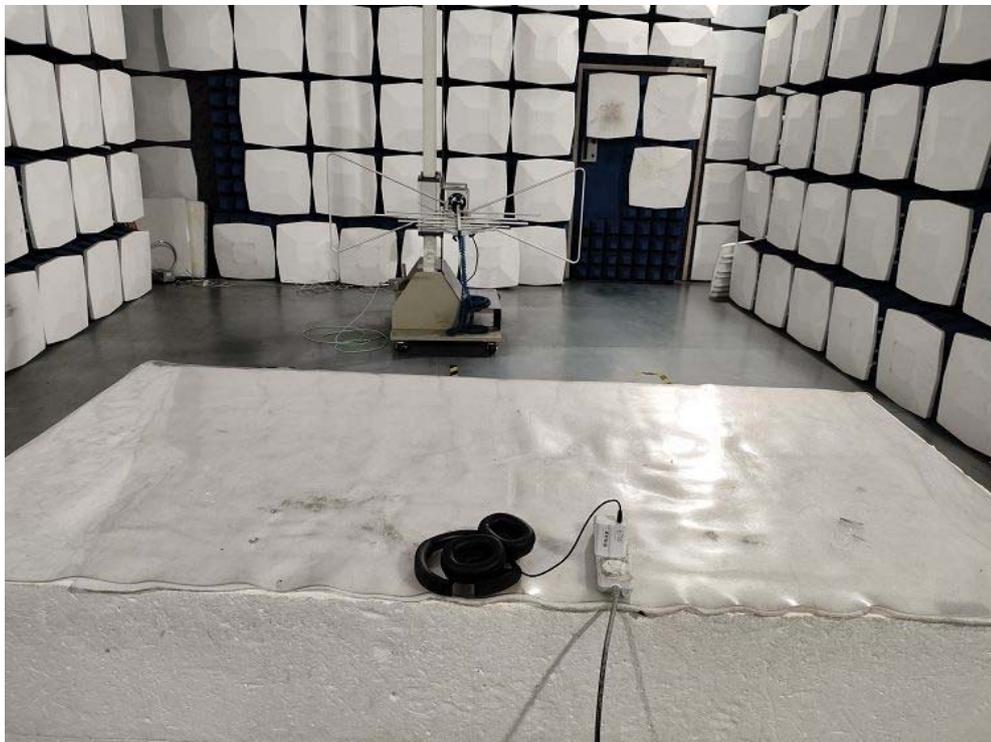
Conducted Emissions



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Radiated Emissions



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Outside View-Headset



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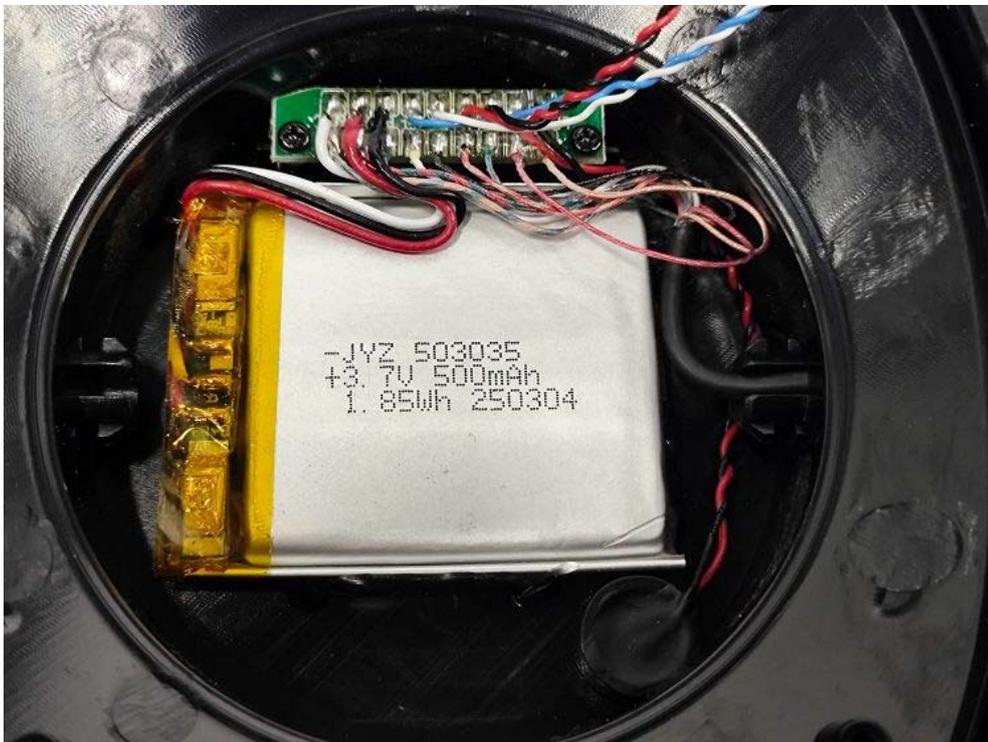
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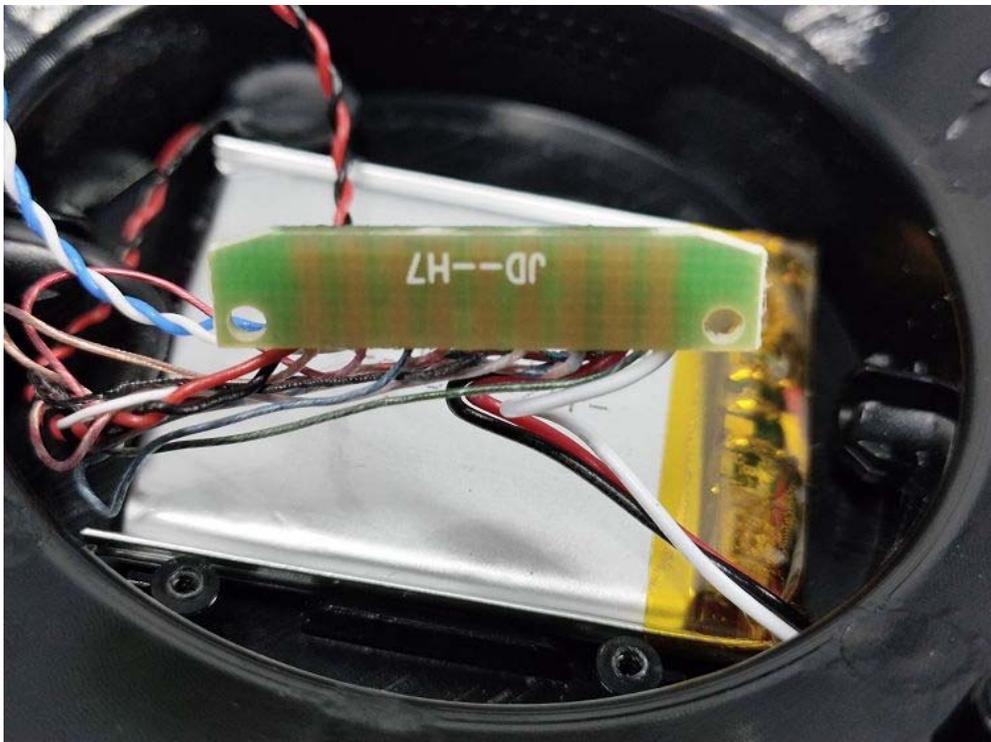
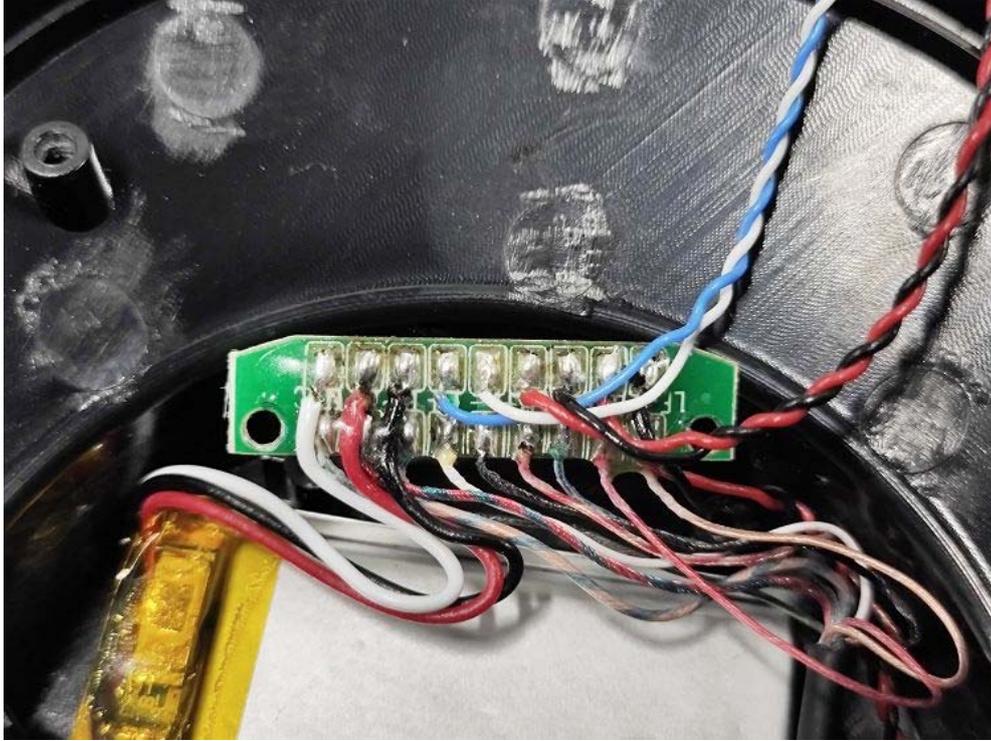
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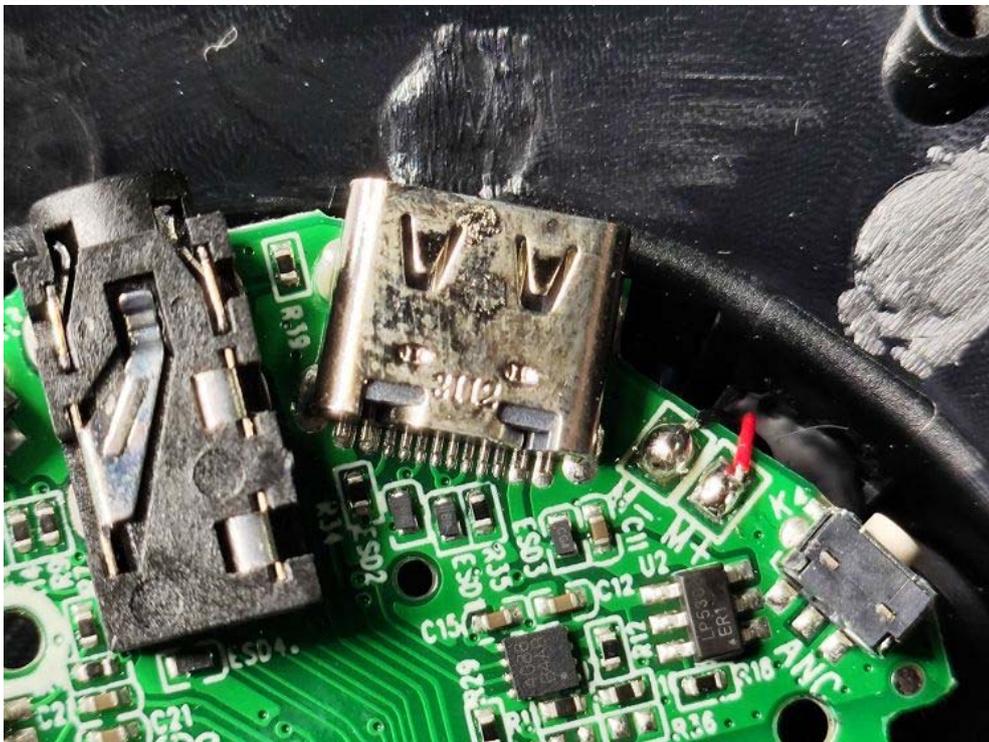
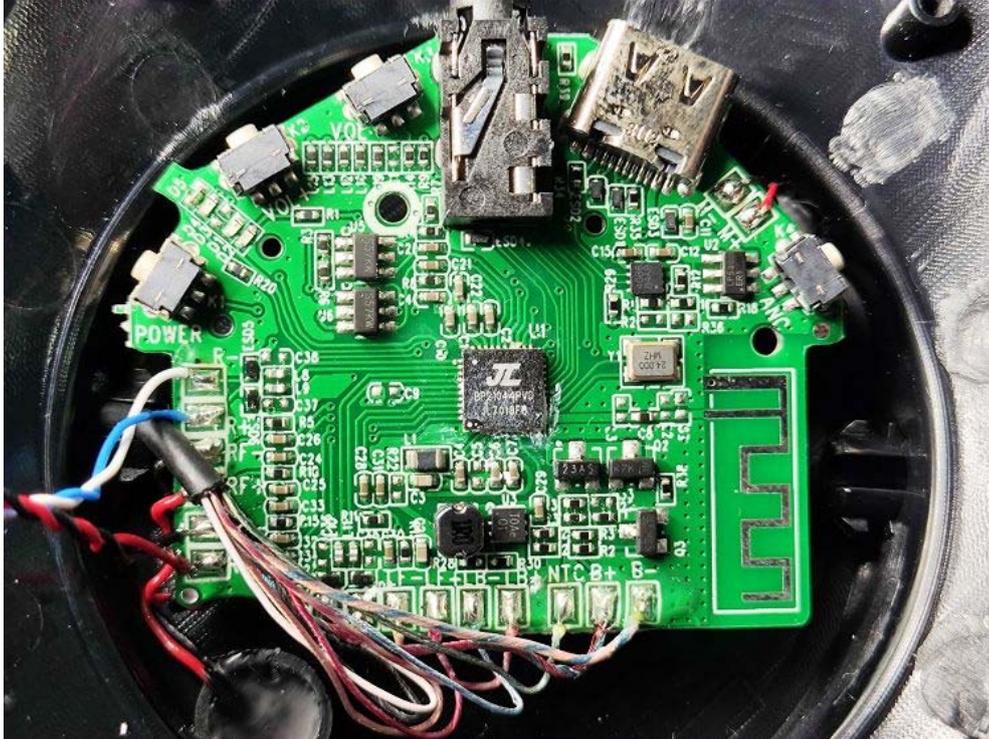
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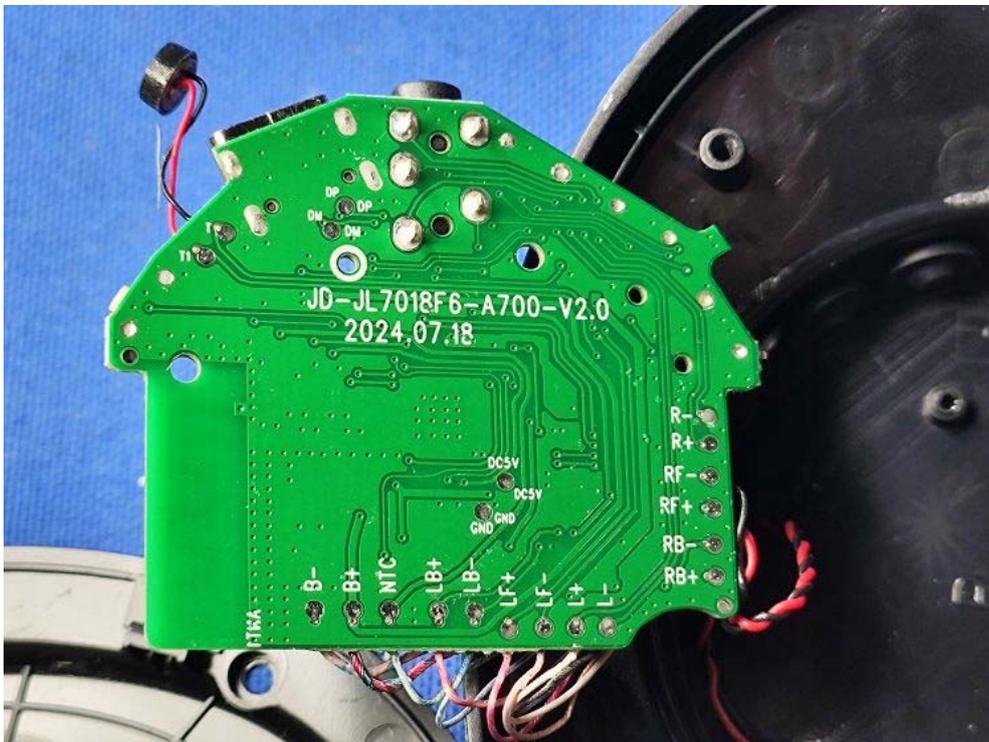
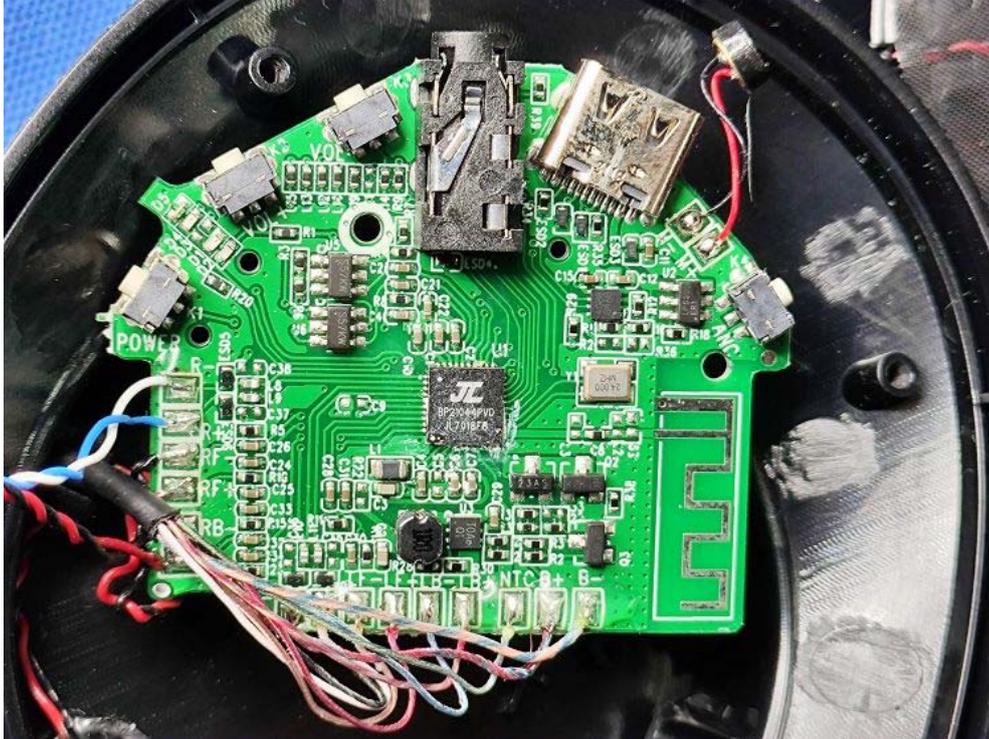
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--End of the report--

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