# TEST REPORT

| | |
|---|---|
| Applicant& Manufacturer: | Innovative Eyewear, Inc. |
| Address: | 11900 Biscayne Bl, Suite 630, North Miami FL 33181 |
| Report Number: | 2604T13671E-EM-02 |

## Test Standard (s)

BS EN 55032:2015+A1:2020, BS EN 55035:2017+A11:2020

BS EN IEC 61000-3-2:2019+A2:2024, BS EN 61000-3-3:2013+A2:2021

## Sample Description

| | |
|---|---|
| Product Name: | Aero Bluetooth Glasses |
| Model No.: | LCD012-40, LCD012-10, LCD012-11, LCD012-13, LCD012-14, LCD012-16, LCD012-17, LCD012-20, LCD012-30, LCD012-50 |
| Trade Mark: | lucyd® |
| Date Received: | 2026-05-12 |
| Report Date: | 2026-09-22 |

| | |
|---|---|
| Test Result: | The EUT complied with the standards above. |

**Prepared and Checked By:**

Lucy Song

Lucy Song
Engineer

**Approved By:**

Bob. Liao

Bob.Liao
Supervisor

BAY AREA COMPLIANCE LABORATORY CORP. BACL COMPLIANCE AND VERIFICATION

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# DOCUMENT REVISION HISTORY

| Revision Number | Report Number | Description of Revision | Date of Revision |
|---|---|---|---|
| Rev.00 | 2604T13671E-EM-02 | Original Report | 2026-09-22 |

# GENERAL INFORMATION

## Product Description for Equipment under Test (EUT)

| | |
|---|---|
| Product Name | Aero Bluetooth Glasses |
| Tested Model | LCD012-40 |
| Multiple Model | LCD012-10, LCD012-11, LCD012-13, LCD012-14, LCD012-16, LCD012-17, LCD012-20, LCD012-30, LCD012-50 |
| Model Difference# | Only difference is frame designs.<br>Please refer to DOS letter for more detail.<br>The applicant provided model "LCD012-40" for testing. |
| Highest Operating Frequency | The EUT's highest operating frequency is 2480 MHz#,<br>the radiated emission measurement shall be made up to 6GHz. |
| Equipment Class | CLASS B |
| Voltage Range# | DC 5.0V from charging port or DC 3.8V from battery |
| Sample Serial Number | 3LU8-1 (EMI&EMS) (Assigned by BACL, Shenzhen) |
| Sample/EUT Status | Good condition |
| Note: The device comes with an USB cable(0.8 m). | |

## Objective

This test report is in accordance with the test standards as below:

- BS EN 55032:2015+A1:2020: Electromagnetic compatibility of multimedia equipment-Emission Requirements.
- BS EN 55035:2017+A11:2020: Electromagnetic compatibility of multimedia equipment-Immunity Requirements.
- BS EN IEC 61000-3-2:2019+A2:2024: Limits for harmonic current emissions (equipment input current ≤16 A per phase).
- BS EN 61000-3-3:2013+A2:2021: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection.

The objective is to determine the compliance of EUT with as below:

BS EN 55032:2015+A1:2020, BS EN 55035:2017+A11:2020,

BS EN IEC 61000-3-2:2019+A2:2024, BS EN 61000-3-3:2013+A2:2021

## Test Methodology

All measurements contained in this report were conducted with the BS EN 55032:2015+A1:2020, BS EN 55035:2017+A11:2020, BS EN IEC 61000-3-2:2019+A2:2024 and BS EN 61000-3-3:2013+A2:2021. And their corresponding referenced standards.

Unless otherwise stated there are no any additions to, deviations, or exclusions from the method.

## Performance criterion

### Performance criterion A

The equipment shall continue to operate as intended without operator intervention. No degradation of performance, loss of function or change of operating state is allowed below a performance level specified by the manufacturer when the equipment is used as intended.

The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

### Performance criterion B

During the application of the disturbance, degradation of performance is allowed. However, no unintended change of actual operating state or stored data is allowed to persist after the test. After the test, the equipment shall continue to operate as intended without operator intervention; no degradation of performance or loss of function is allowed, below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level (or the permissible performance loss), or recovery time, is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

### Performance criterion C

Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. A reboot or re-start operation is allowed.

Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

## Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Shenzhen)..... to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

## Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on CISPR 16-4-2:2011, the expended combined standard uncertainty of test at Bay Area Compliance Laboratories Corp. (Shenzhen) ..... is shown as below. And the uncertainty will be taken into consideration for the test data recorded in the report

| Item | | Expanded Measurement uncertainty |
|---|---|---|
| Conducted Disturbance | 150kHz-30MHz | *2.7 dB (k=2, 95% level of confidence)* |
| Radiated Disturbance | 30MHz-1GHz | *4.3 dB (k=2, 95% level of confidence)* |
| | 1GHz-18GHz | *4.9 dB (k=2, 95% level of confidence)* |
| Harmonic Current | | *3.1 % (k=2, 95% level of confidence)* |

*Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.*

# SYSTEM TEST CONFIGURATION

## Description of Test Configuration

The system was configured for testing in normal mode.

Test Mode 1: Charging

Test Voltage: AC 230V 50Hz

## EUT Exercise Software

No exercise software was used.

## Special Accessories

No special accessory.

## Equipment Modifications

No modification was made to the EUT tested.

## Support Equipment List and Details

| Manufacturer | Description | Model | Serial Number |
|---|---|---|---|
| Infinix | Adapter | U450XEC<br>Input:100-240V~50/60Hz,1.8A<br>Output:5V ⎓3.0A 15.0W<br>or 5V-10.0V ⎓4.5A 45.0W MAX<br>or 11.0V ⎓4.1A 45.0W | Unknown |

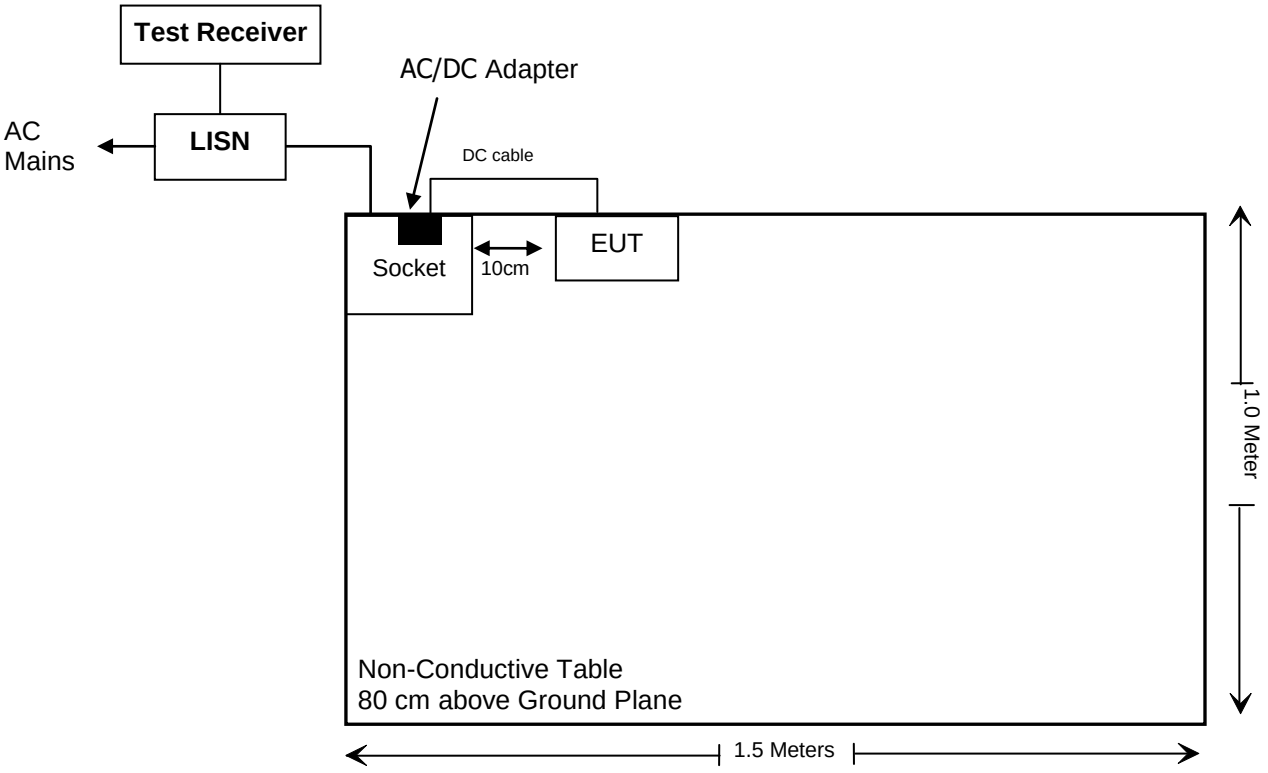
## External I/O Cable

| Cable Description | Length (m) | From Port | To |
|---|---|---|---|
| Unshielded Detachable DC Cable | 0.8 | Adapter | EUT |

## Block Diagram of Test Setup

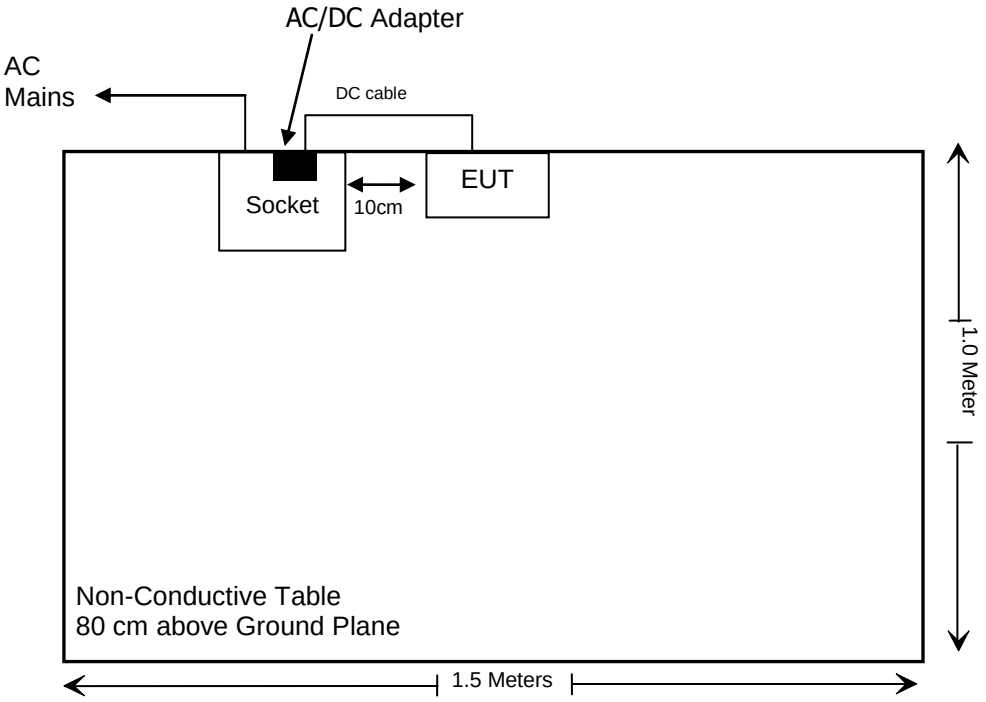
**For Conducted Emission:**

**Test Mode 1**




**For Radiated Emission:**

**Test Mode 1**



# SUMMARY OF TEST REPORT

**BS EN 55032**

| Rule | Description | Results |
|---|---|---|
| §A.3 | Conducted Disturbance at Mains Terminals | Compliance |
| §A.2 | Radiated Disturbance | Compliance |

**BS EN 55035**

| Rule | Description | Results |
|---|---|---|
| §4.2.1 | Electrostatic Discharge IEC 61000-4-2 | Compliance |
| §4.2.2.2 | Continuous Radiated Immunity IEC 61000-4-3 | Compliance |
| §4.2.2.3 | Continuous Conducted Immunity IEC 61000-4-6 | Compliance |
| §4.2.3 | Power Frequency Magnetic Fields IEC 61000-4-8 | Compliance |
| §4.2.4 | Electrical Fast Transients IEC 61000-4-4 | Compliance |
| §4.2.5 | Surges IEC 61000-4-5 | Compliance |
| §4.2.6 | Voltage Dips And Interruptions, IEC 61000-4-11 | Compliance |
| §4.2.7 | Broadband impulsive conducted disturbances | Not Applicable |

**BS EN IEC 61000-3-2**

| Rule | Description | Results |
|---|---|---|
| §7 | Harmonic Current Emissions | Compliance |

**BS EN 61000-3-3**

| Rule | Description | Results |
|---|---|---|
| §5 | Voltage Fluctuation and Flicker | Compliance |

Note: Not Applicable- this item is only applicable to CPE x DSL ports.

# TEST EQUIPMENT LIST

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| **Conducted Disturbance** | | | | | |
| Rohde& Schwarz | EMI Test Receiver | ESCI | 100784 | 2025/09/17 | 2026/09/16 |
| Rohde & Schwarz | L.I.S.N. | ENV216 | 101314 | 2025/09/17 | 2026/09/16 |
| Anritsu Corp | 50 Coaxial Switch | MP59B | 6100237248 | 2025/09/18 | 2026/09/17 |
| Rohde & Schwarz | Pulse Limiter | ESH3-Z2 | 100312 | 2025/05/30 | 2026/05/29 |
| Unknown | RF Coaxial Cable | No.17 | N0350 | 2025/09/19 | 2026/09/18 |
| Test Software: e3 191218 (V9) | | | | | |
| **Radiated Disturbance (Below 1GHz)** | | | | | |
| Rohde& Schwarz | Test Receiver | ESR | 102725 | 2025/09/18 | 2026/09/17 |
| SONOMA INSTRUMENT | Amplifier | 310N | 186131 | 2026/01/20 | 2027/01/19 |
| Schwarzbeck | Bilog Antenna | VULB9163 | 9163-323 | 2024/08/08 | 2027/08/07 |
| Unknown | RF Coaxial Cable | No.12 | N040 | 2025/05/30 | 2026/05/29 |
| Unknown | RF Coaxial Cable | No.13 | N300 | 2025/05/30 | 2026/05/29 |
| Unknown | RF Coaxial Cable | No.14 | N800 | 2025/05/30 | 2026/05/29 |
| Test Software: e3 191218 (V9) | | | | | |
| **Radiated Disturbance (Above 1GHz)** | | | | | |
| Rohde&Schwarz | Spectrum Analyzer | FSV40 | 101949 | 2025/09/17 | 2026/09/16 |
| Decentest | Filter Switch Unit | DT7220FSU | DQ77927 | 2025/09/18 | 2026/09/17 |
| Decentest | Multiplex Switch Test Control Set | DT7220CSU | DQ77924 | 2025/09/18 | 2026/09/17 |
| A.H. Systems, inc. | Preamplifier | PAM-0118 | 226 | 2026/01/20 | 2027/01/19 |
| Schwarzbeck | Horn Antenna | BBHA9120D | 837 | 2026/01/29 | 2029/01/30 |
| Unknown | RF Coaxial Cable | No.10 | N050 | 2025/05/30 | 2026/05/29 |
| Unknown | RF Coaxial Cable | No.11 | N1000 | 2025/05/30 | 2026/05/29 |
| Unknown | RF Coaxial Cable | No.19 | N500 | 2025/05/30 | 2026/05/29 |
| Test Software: e3 191218 (V9) | | | | | |
| **Harmonic/Flicker** | | | | | |
| California Instruments | 5KVA AC POWER SOURCE | 5001iX-400 | 55692 | 2025/09/18 | 2026/09/17 |
| California Instruments | HARMONICS/FLICKERTEST ANALYZER | PACS-1 | 72254 | 2025/09/18 | 2026/09/17 |
| Test Software: CTS4 Version 4.28.0 | | | | | |

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---|---|---|---|---|---|
| **ESD** | | | | | |
| TESEQ | ESD Generator | NSG 437 | 823 | 2025/09/17 | 2026/09/16 |
| **CS** | | | | | |
| FRANKONIA | Conducted Immunity Test System | CIT-10 | 126B1121 | 2025/09/18 | 2026/09/17 |
| FRANKONIA | CDN | CDN-M2/3 | A3027020 | 2023/12/04 | 2026/12/03 |
| Weinschel | 6dB Attenuator | WA59-6-33 | A329 | / | / |
| Test Software: HUBERT Version 4.28.0 | | | | | |
| **EFT/SURGE/DIPS** | | | | | |
| EM TEST | ULTRA COMPACT SIMULATOR | UCS 500 N5 | V0928104968 | 2025/09/18 | 2026/09/17 |
| Test Software: iec.controlVersion 6.0.1 | | | | | |
| **PFMF** | | | | | |
| FAR EAST | Transformer | TDGC2J-5 | 456 | / | / |
| HAEFELY | Magnetic Field Tester | MAG100 | 150577 | 2025/09/18 | 2026/09/17 |
| **RS** | | | | | |
| Rohde & Schwarz | RF-Generator | SMB100A | 108362 | 2025/09/17 | 2026/09/16 |
| TESEQ | Power Amplifier(80 – 1000MHz) | CBA 1G-070 | T44328 | 2025/09/17 | 2026/09/16 |
| A&R | Linear Power Amplifier (1 – 6GHz) | AS0860-40/45 | 1060913 | 2025/09/17 | 2026/09/16 |
| A&R | Trapezoidal Log Periodic Antenna | ATT700M12G | 0357149 | / | / |
| A&R | Log-Periodic Antenna | ATL80M1G | 0356913 | / | / |
| Agilent | Power Meter | E4419B | MY45100442 | 2025/09/17 | 2026/09/16 |
| Keysight | Power Sensor | E9301A | MY55270006 | 2025/09/17 | 2026/09/16 |
| Keysight | Power Sensor | E9301A | MY54280004 | 2025/09/18 | 2026/09/17 |
| Test Software: IEC 61000-4-3&6Version V2.3 | | | | | |

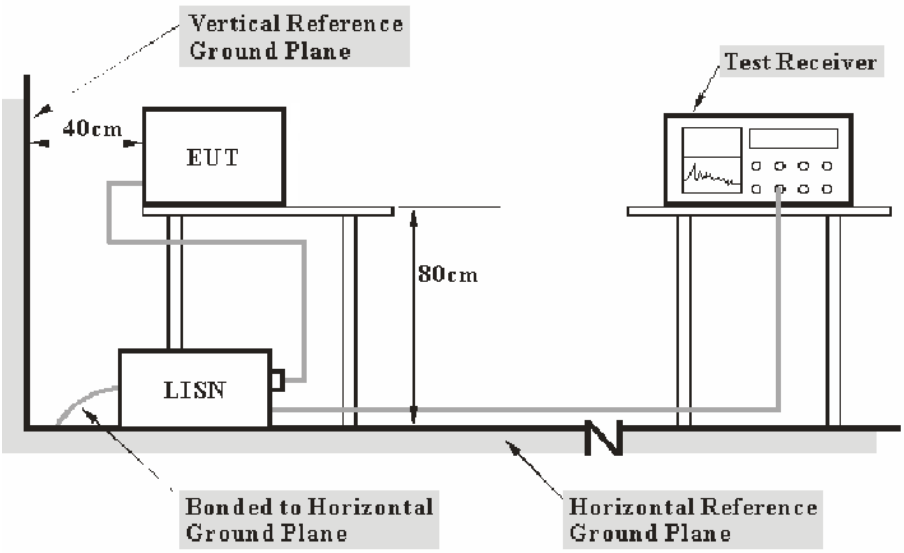
*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen)..... attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

# BS EN 55032§A.3-CONDUCTED DISTURBANCE

## Applicable Standard

BS EN 55032 §A.3.

## Test System Setup




Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is in according with CISPR 16-1-1:2010+A1:2010+A2:2014, CISPR 16-2-1:2014. The related limit was specified in the BS EN 55032.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

## Limits (BS EN 55032 CLASS B)

| Frequency | Limit (dBμV) | |
|---|---|---|
| | Quasi-peak Level | Average Level |
| 150 kHz – 0.5 MHz | 66 - 56* | 56 - 46* |
| 0.5 MHz – 5.0 MHz | 56 | 46 |
| 5.0 MHz – 30.0 MHz | 60 | 50 |

Remark: * means decreasing linearly with logarithm of frequency.

## EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range | IF B/W |
|---|---|
| 150 kHz - 30 MHz | 9 kHz |

## Test Procedure

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance using all installation combination.

All final data was recorded in the Quasi-peak and average detection mode.

## Calculation

The Factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Limiter Attenuation. The basic equation is as follows:

Factor = LISN VDF + Cable Loss + 10dB Attenuation(Limiter)

The "**Over Limit**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, the over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

Over Limit = Level – Limit
Level= Reading level + Factor

## Test Results Summary

According to the recorded data in following plots, the EUT complied with the limit of BS EN 55032.

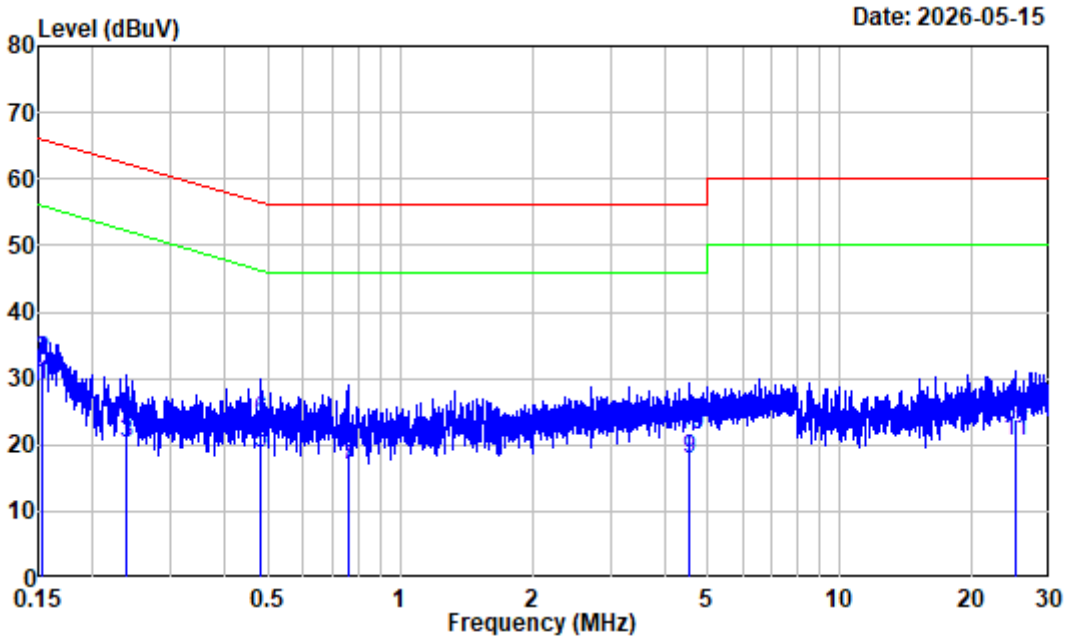
## Test Data and Test Setup Photo

### Environmental Conditions

| | |
|---|---|
| **Temperature:** | 24.3 ℃ |
| **Relative Humidity:** | 49 % |
| **ATM Pressure:** | 100.6 kPa |
| **Test Engineer:** | Homelander Dai |
| **Test Date:** | 2026-05-15 |
| **EUT Operation Mode:** | Test Mode 1 |
| **Investigated Frequency Range:** | 150 kHz to 30MHz |

**Test Result:** Please refer to following data.

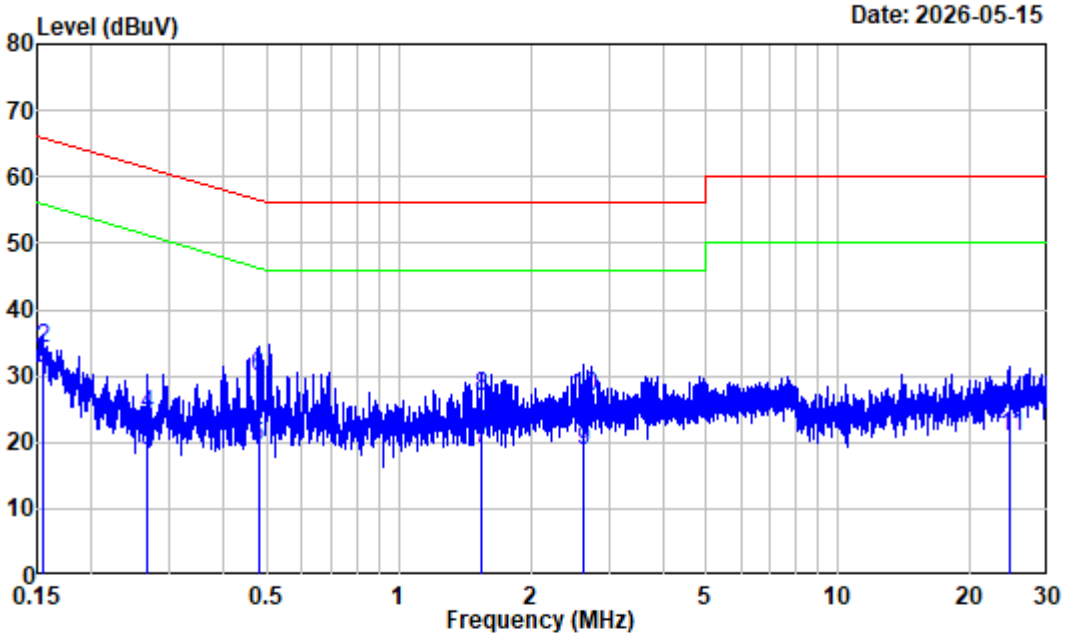
**Test Mode 1**
**AC 230 V/ 50 Hz, Line:**




Site : Shielding Room
Condition: Line
Job No. : 2604T13671E-EM
Test Mode: Test mode 1

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.153 | 19.97 | 8.95 | 28.92 | 55.86 | -26.94 | Average |
| 2 | 0.153 | 19.97 | 12.70 | 32.67 | 65.86 | -33.19 | QP |
| 3 | 0.238 | 19.96 | 0.30 | 20.26 | 52.15 | -31.89 | Average |
| 4 | 0.238 | 19.96 | 3.60 | 23.56 | 62.15 | -38.59 | QP |
| 5 | 0.480 | 19.99 | -1.39 | 18.60 | 46.35 | -27.75 | Average |
| 6 | 0.480 | 19.99 | 3.65 | 23.64 | 56.35 | -32.71 | QP |
| 7 | 0.759 | 20.17 | -3.15 | 17.02 | 46.00 | -28.98 | Average |
| 8 | 0.759 | 20.17 | -1.41 | 18.76 | 56.00 | -37.24 | QP |
| 9 | 4.555 | 21.61 | -3.69 | 17.92 | 46.00 | -28.08 | Average |
| 10 | 4.555 | 21.61 | -0.28 | 21.33 | 56.00 | -34.67 | QP |
| 11 | 24.988 | 24.46 | -4.05 | 20.41 | 50.00 | -29.59 | Average |
| 12 | 24.988 | 24.46 | -0.55 | 23.91 | 60.00 | -36.09 | QP |

**AC 230 V/ 50 Hz, Neutral:**




Site : Shielding Room
Condition: Neutral
Job No. : 2604T13671E-EM
Test Mode: Test mode 1

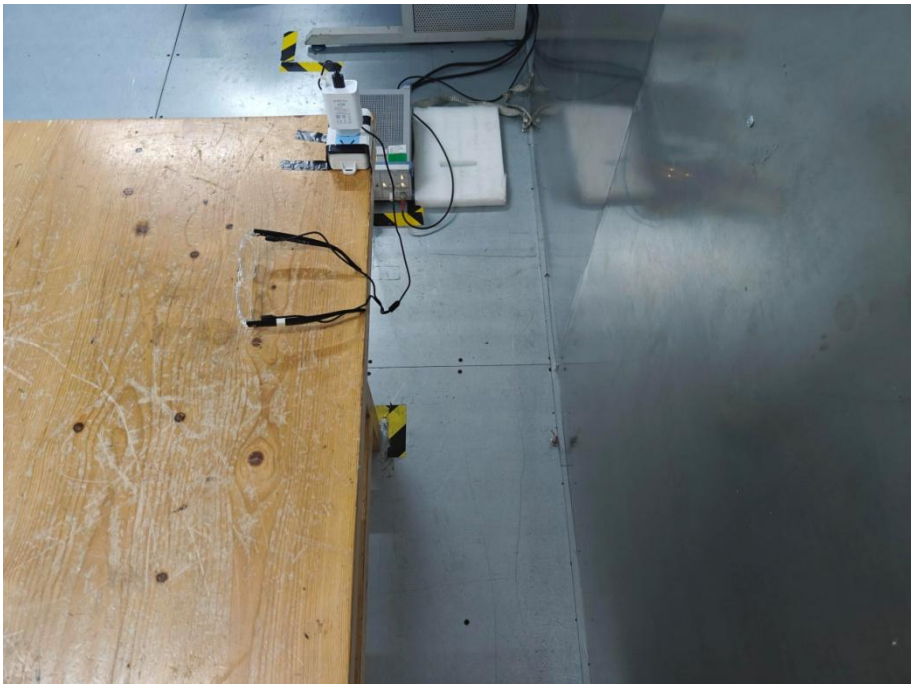
| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.154 | 19.86 | 9.33 | 29.19 | 55.76 | -26.57 | Average |
| 2 | 0.154 | 19.86 | 14.16 | 34.02 | 65.76 | -31.74 | QP |
| 3 | 0.267 | 19.96 | -1.22 | 18.74 | 51.20 | -32.46 | Average |
| 4 | 0.267 | 19.96 | 4.12 | 24.08 | 61.20 | -37.12 | QP |
| 5 | 0.478 | 20.02 | -0.76 | 19.26 | 46.37 | -27.11 | Average |
| 6 | 0.478 | 20.02 | 9.86 | 29.88 | 56.37 | -26.49 | QP |
| 7 | 1.544 | 20.74 | -1.82 | 18.92 | 46.00 | -27.08 | Average |
| 8 | 1.544 | 20.74 | 6.12 | 26.86 | 56.00 | -29.14 | QP |
| 9 | 2.636 | 21.10 | -2.43 | 18.67 | 46.00 | -27.33 | Average |
| 10 | 2.636 | 21.10 | 5.84 | 26.94 | 56.00 | -29.06 | QP |
| 11 | 24.627 | 24.52 | -3.84 | 20.68 | 50.00 | -29.32 | Average |
| 12 | 24.627 | 24.52 | -0.33 | 24.19 | 60.00 | -35.81 | QP |

# Test Setup Photo

## Test Mode 1

### Photo of Power Line Conducted Emission Measurement-Front Side

### Photo of Power Line Conducted Emission Measurement-Rear Side



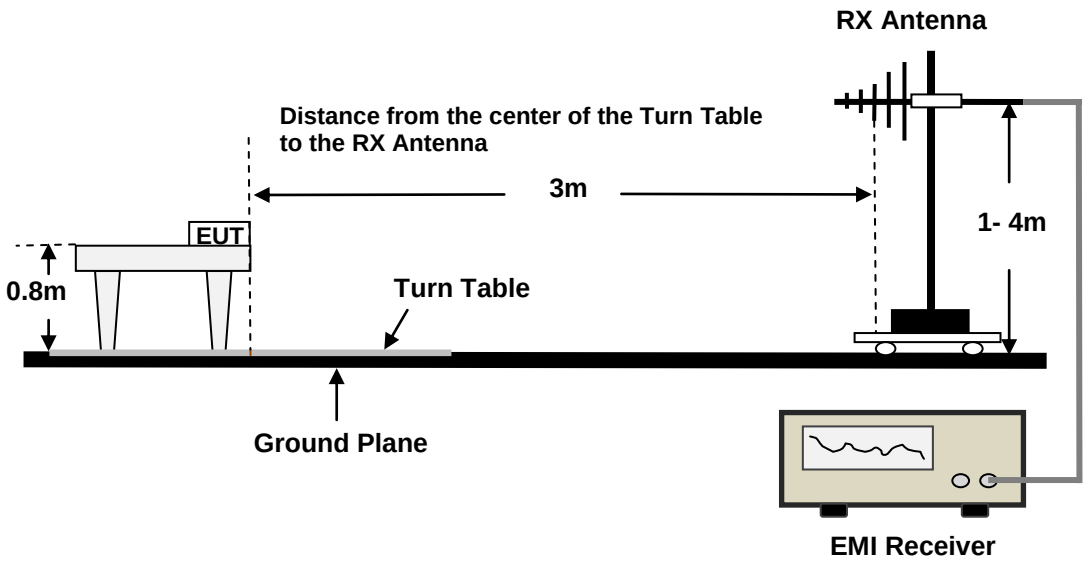
# BS EN 55032§A.2-RADIATED DISTURBANCE

## Applicable Standard

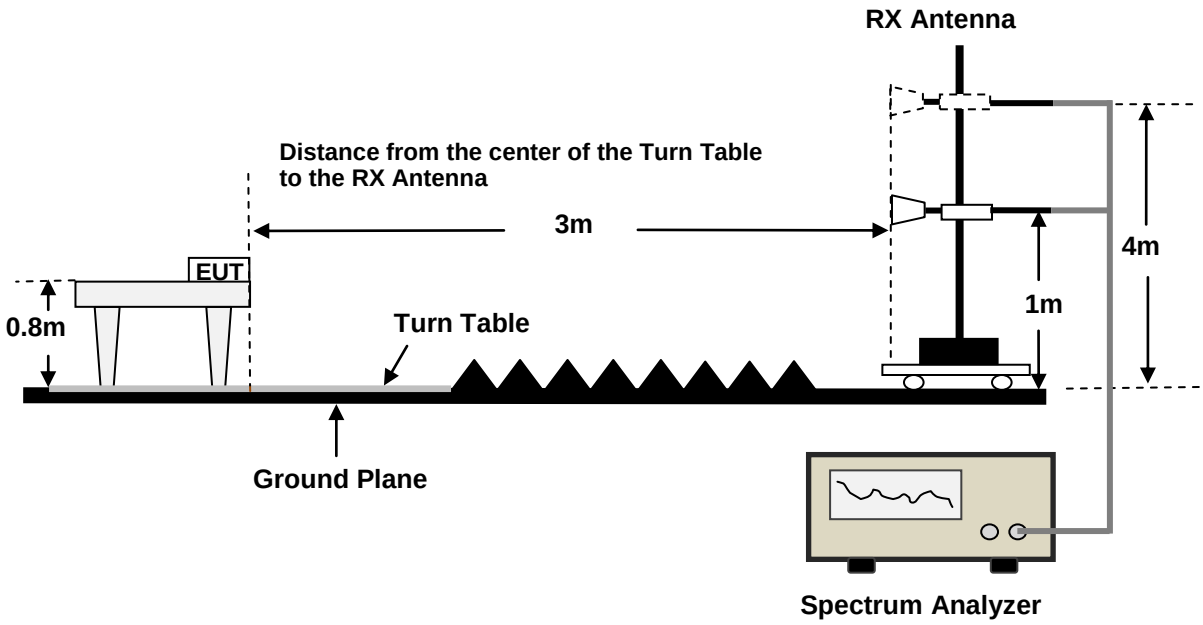
BS EN 55032 §A.2.

## Test System Setup

**Below 1 GHz:**




**Above 1 GHz:**




Boundary of the EUT, local AE and associated cabling and measurement distance for radiated emissions measurements:

The central point of the arrangement shall be positioned at the centre of the turntable. The measurement distance is the shortest horizontal distance between an imaginary circular periphery just encompassing this arrangement and the calibration point of the antenna. See as below Figure C.1 and C.2.

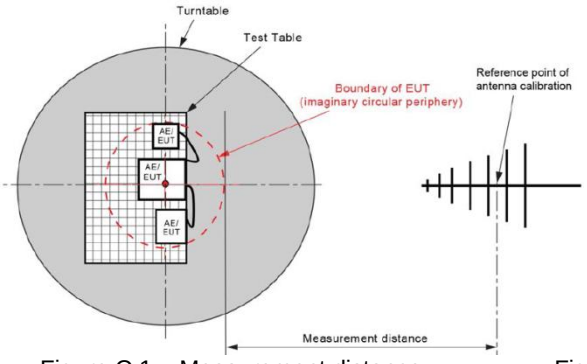



Figure C.1 – Measurement distance

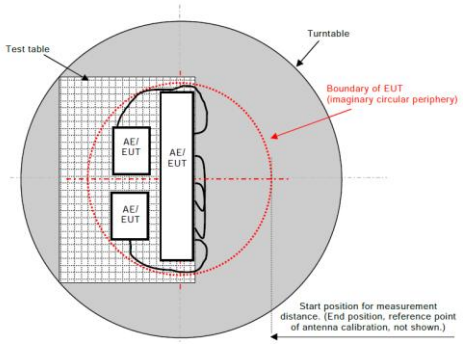



Figure C.2 – Boundary of EUT, Local AE and associated cabling

The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the CISPR16-1-4:2010+A1:2012, CISPR 16-2-3:2010+A1:2010+A2:2014. The limit was specified in BS EN 55032.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

## Limits (BS EN 55032 CLASS B)

| Frequency (MHz) | Field Strengths Limit [dB(μV/m)] |
|---|---|
| | 3m |
| 30 ~ 230 | 40 |
| 230 ~ 1000 | 47 |

| Frequency | Field Strengths Limit [dB(μV/m)] | |
|---|---|---|
| | 3m | |
| | Average | Peak |
| Above 1GHz | 54 | 74 |

## EMI Test Receiver & Spectrum Analyzer Setup

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

| Frequency Range | Measurement | RBW | Video B/W | IF B/W |
|---|---|---|---|---|
| 30 MHz - 1000 MHz | PK | 100 kHz | 300 kHz | / |
| | QP | / | / | 120kHz |
| Above 1GHz | PK | 1 MHz | 3 MHz | / |
| | AV | 1 MHz | 10 Hz | / |

Note 1: Other emissions which were more than 20dB below to the limit or on noise floor level was not recorded.
Note 2: For below 1GHz testing, if the maximized peak measured value below the limit more than 6dB, then it is unnecessary to perform QP measurement.
Note 3: For above 1GHz testing, the test result of peak was 20dB below to the limit of peak, which can be compliant to the average limit, so just peak value was recorded.

## Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

## Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "**Over Limit**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

Over Limit =Level - Limit.
Level = Read Level + Factor

## Test Results Summary

According to the recorded data in following plots, the EUT complied with the limit of BS EN 55032.

## Test Data and Test Setup Photo

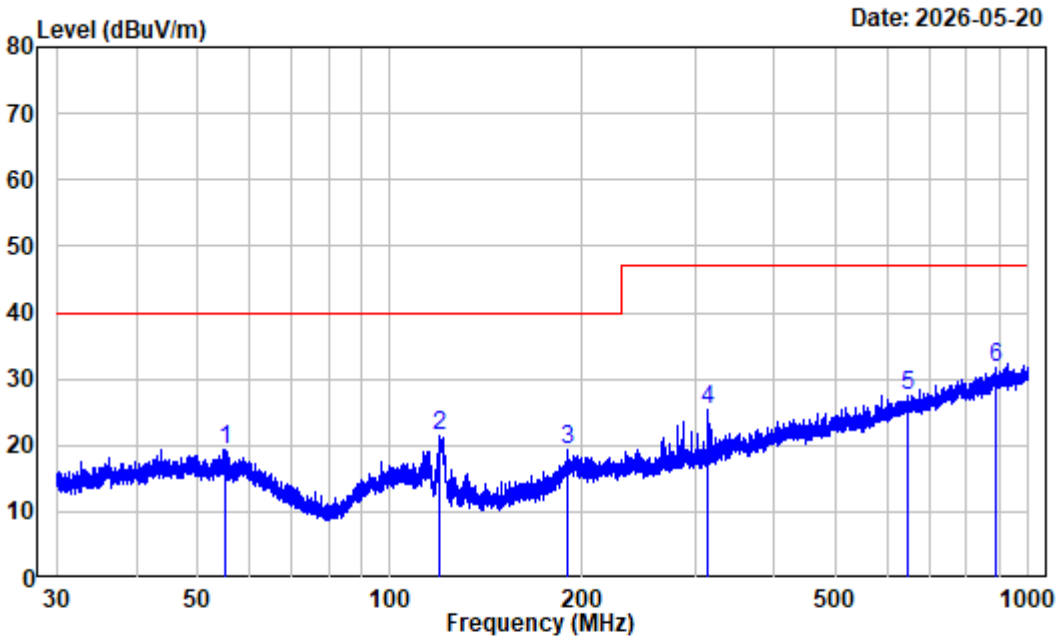
### Environmental Conditions

| | | |
|---|---|---|
| **Temperature:** | 23.7 ℃ | 24.5 ℃ |
| **Relative Humidity:** | 49 % | 53 % |
| **ATM Pressure:** | 100.6 kPa | 100.6 kPa |
| **Test Engineer:** | Jayden Luo | Max Tao |
| **Test Date:** | 2026-05-20 | 2026-05-19 |
| **EUT Operation Mode:** | Test Mode 1 | Test Mode 1 |
| **Investigated Frequency Range:** | Below 1GHz | Above 1GHz |

**Test Result:** Please refer to the following data.

**Test Mode 1**
**Below 1GHz**

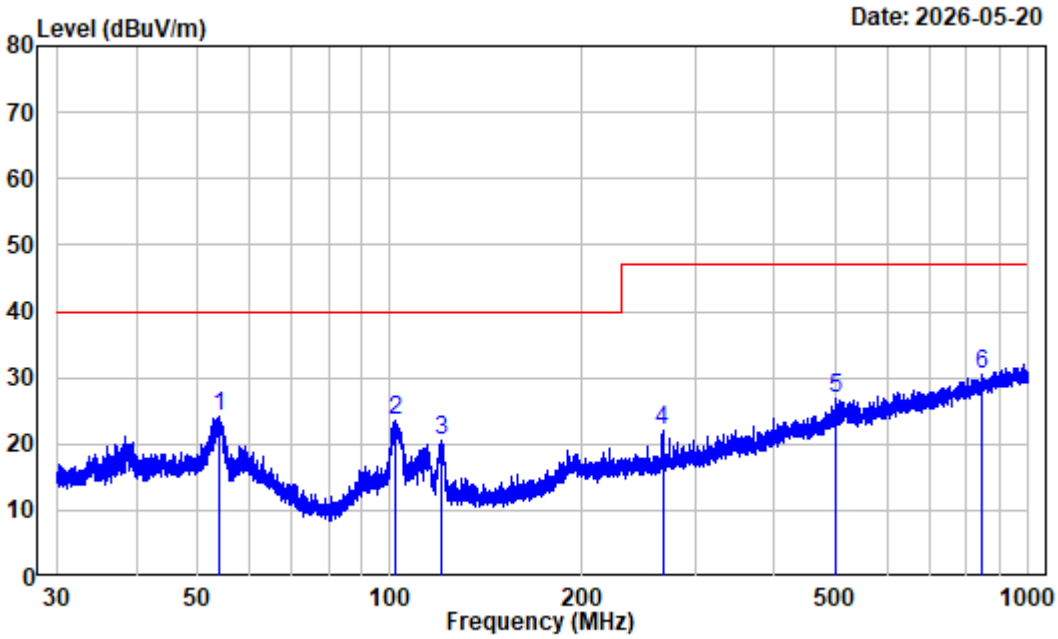
**Horizontal**




Site : chamber
Condition: 3m HORIZONTAL
Job No. : 2604T13671E-EM
Test Mode: Test Mode 1

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 55.076 | -10.69 | 30.02 | 19.33 | 40.00 | -20.67 | Peak |
| 2 | 119.751 | -13.27 | 34.82 | 21.55 | 40.00 | -18.45 | Peak |
| 3 | 189.655 | -10.41 | 29.59 | 19.18 | 40.00 | -20.82 | Peak |
| 4 | 314.928 | -8.59 | 34.08 | 25.49 | 47.00 | -21.51 | Peak |
| 5 | 648.522 | -1.30 | 28.81 | 27.51 | 47.00 | -19.49 | Peak |
| 6 | 887.221 | 1.60 | 30.16 | 31.76 | 47.00 | -15.24 | Peak |

**Vertical**

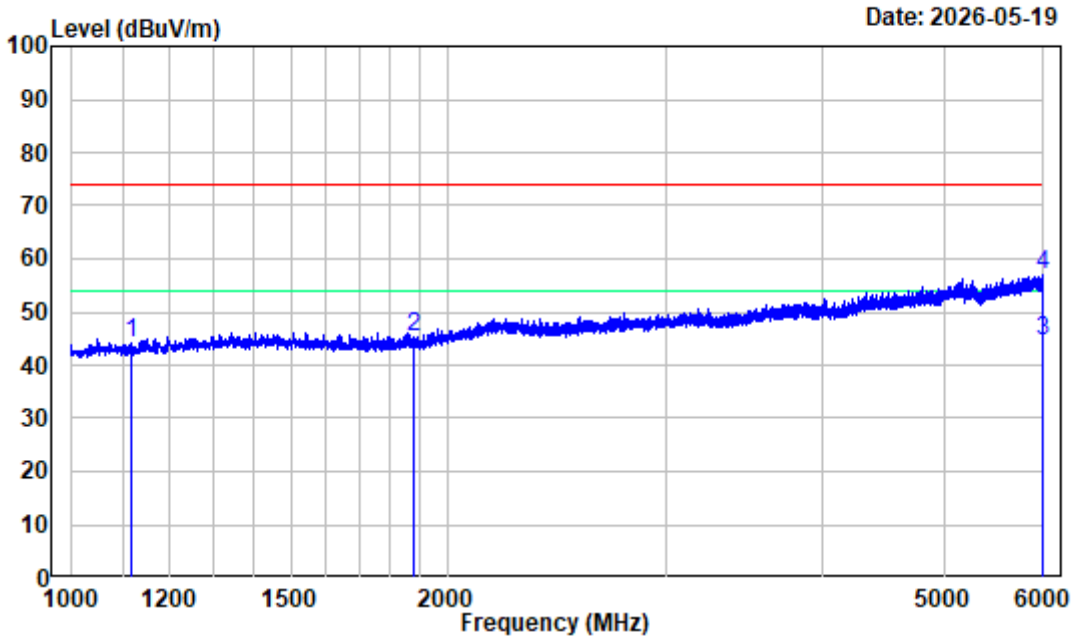



Site : chamber
Condition: 3m VERTICAL
Job No. : 2604T13671E-EM
Test Mode: Test Mode 1

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 54.000 | -10.42 | 34.42 | 24.00 | 40.00 | -16.00 | Peak |
| 2 | 101.912 | -11.23 | 34.68 | 23.45 | 40.00 | -16.55 | Peak |
| 3 | 120.013 | -13.34 | 33.96 | 20.62 | 40.00 | -19.38 | Peak |
| 4 | 267.194 | -9.81 | 31.83 | 22.02 | 47.00 | -24.98 | Peak |
| 5 | 498.113 | -3.83 | 30.66 | 26.83 | 47.00 | -20.17 | Peak |
| 6 | 844.718 | 0.99 | 29.49 | 30.48 | 47.00 | -16.52 | Peak |

**Above 1GHz**

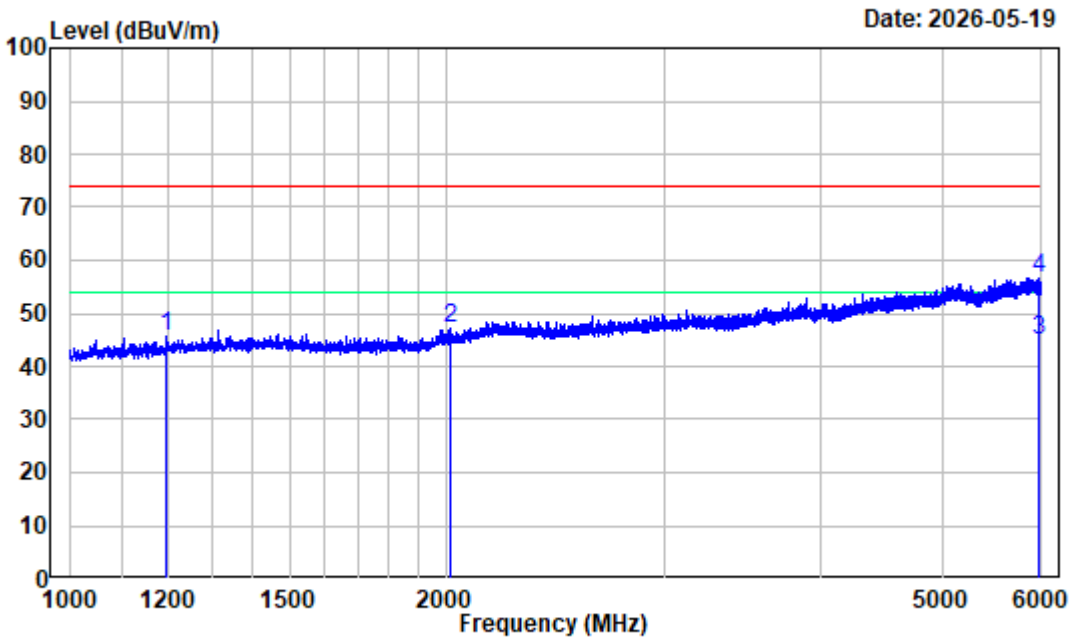
**Horizontal**




Site : chamber
Condition: 3m HORIZONTAL
Job No. : 2604T13671E-EM
Test Mode: Test Mode 1

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1116.875 | -13.94 | 58.06 | 44.12 | 74.00 | -29.88 | Peak |
| 2 | 1881.250 | -12.86 | 58.29 | 45.43 | 74.00 | -28.57 | Peak |
| 3 | 5997.500 | -5.48 | 50.15 | 44.67 | 54.00 | -9.33 | Average |
| 4 | 5997.500 | -5.48 | 62.37 | 56.89 | 74.00 | -17.11 | Peak |

**Vertical**



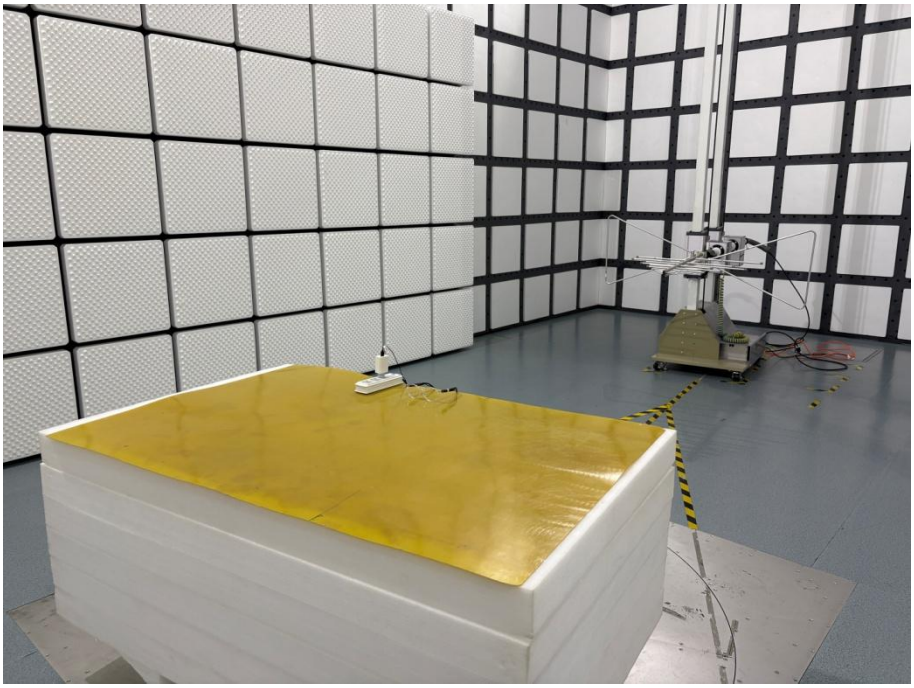

Site : chamber
Condition: 3m VERTICAL
Job No. : 2604T13671E-EM
Test Mode: Test Mode 1

| | Freq | Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|---|---|---|---|---|---|---|
| | MHz | dB/m | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1196.875 | -13.57 | 59.33 | 45.76 | 74.00 | -28.24 | Peak |
| 2 | 2020.625 | -11.89 | 59.05 | 47.16 | 74.00 | -26.84 | Peak |
| 3 | 5966.875 | -5.56 | 50.52 | 44.96 | 54.00 | -9.04 | Average |
| 4 | 5966.875 | -5.56 | 62.20 | 56.64 | 74.00 | -17.36 | Peak |

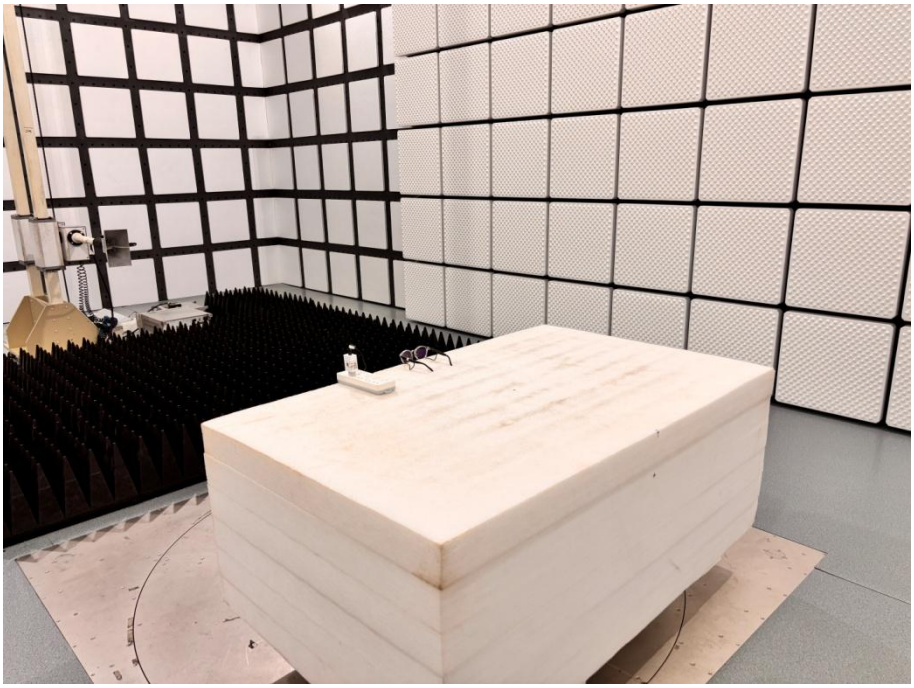
# Test Setup Photo

## Test Mode 1

### Radiated Emission Test (Below 1GHz)

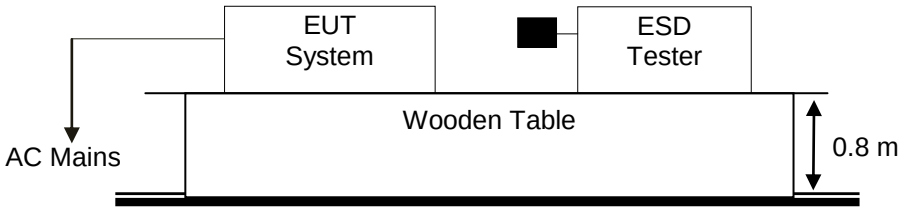


### Radiated Emission Test (Above 1GHz)



# BS EN 55035§4.2.1-ELECTROSTATIC DISCHARGES

## Test System Setup




Remark: ■ is the tip of the electrode

IEC 61000-4-2 specifies that a tabletop EUT shall be placed on a non-conducting table which is 80 centimeters above a ground reference plane and that floor mounted equipment shall be placed on an insulating support approximately 10 centimeters above a ground plane. During the tests, the EUT is positioned over a ground reference plane in conformance with this requirement.

For tabletop equipment, a 1.6 by 0.8-meter metal sheet (HCP) is placed on the table and connected to the ground plane via a metal strap with two 470 k Ohms resistors in series. The EUT and attached cables are isolated from this metal sheet by 0.5-millimeter thick insulating material. A Vertical Coupling Plane (VCP) grounded on the ground plane through the same configuration as in the HCP is used.

## Test Standard

BS EN 55035:2017+A11:2020, IEC 61000-4-2:2008

## Test Level

| Level | Test Voltage Contact Discharge (±kV) | Test Voltage Air Discharge (±kV) | Performance Criterion |
|---|---|---|---|
| 1 | 2 | 2 | B |
| 2 | 4 | 4 | |
| 3 | 6 | 8 | |
| 4 | 8 | 15 | |
| X | Special | Special | |
| Note: X can be any level, above, below or in between the others. This level shall be specified in the dedicated equipment specification. If higher voltages than those shown are specified, special test equipment may be needed. | | | |

## Test Procedure

### Air Discharge:

This test is done on a non-conductive surface. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

### Contact Discharge:

All the procedure shall be same as Section 8.3.1 of IEC 61000-4-2, except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

### Indirect discharge for horizontal coupling plane

At least 20 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1 m from the EUT and with the discharge electrode touching the coupling plane.

### Indirect discharge for vertical coupling plane

At least 20 single discharges shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m × 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

## Test Data and Test Setup Photo

### Environmental Conditions

| | |
|---|---|
| **Temperature:** | 25 ℃ |
| **Relative Humidity:** | 51 % |
| **ATM Pressure:** | 100.6 kPa |
| **Test Engineer:** | Lucy Song |
| **Test Date:** | 2026-05-22 |
| **EUT Operation Mode:** | Test Mode 1 |

**Test Result:** Please refer to following data.

**Table 1: Electrostatic Discharge Immunity (Contact Discharge)**

| EN 61000-4-2 Test Points Location | Test Levels | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | -2 kV | +2 kV | -4 kV | +4 kV | -6 kV | +6 kV | -8 kV | +8 kV |
| Charging contact | / | / | A | A | / | / | / | / |
| Screw | / | / | A | A | / | / | / | / |

**Table 2: Electrostatic Discharge Immunity (Air Discharge)**

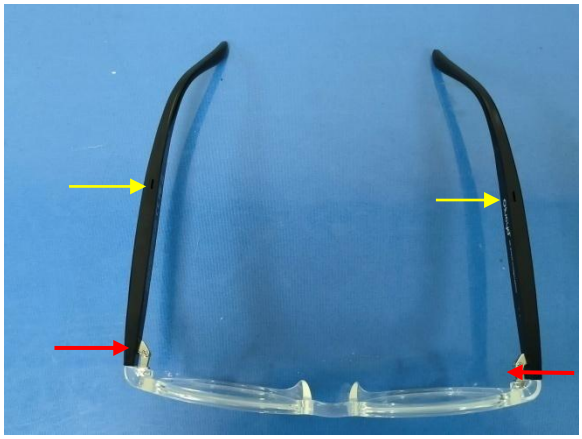
| EN 61000-4-2 Test Points Location | Test Levels | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | -2 kV | +2 kV | -4 kV | +4 kV | -8 kV | +8 kV | -15 kV | +15 kV |
| Gap | A | A | A | A | A | A | / | / |
| Loudspeaker | A | A | A | A | A | A | / | / |
| Plastic eyeglass frames | A | A | A | A | A | A | / | / |

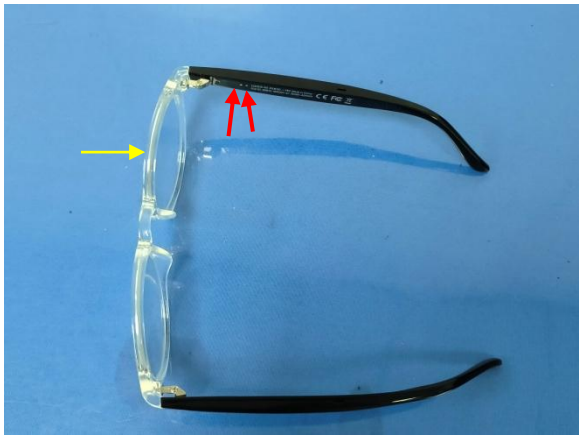
**Table 3: Electrostatic Discharge Immunity (Indirect Contact HCP)**

| EN 61000-4-2 Test Points Location | Test Levels | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | -2 kV | +2 kV | -4 kV | +4 kV | -6 kV | +6 kV | -8 kV | +8 kV |
| Front Side | / | / | A | A | / | / | / | / |
| Back Side | / | / | A | A | / | / | / | / |
| Left Side | / | / | A | A | / | / | / | / |
| Right Side | / | / | A | A | / | / | / | / |

**Table 4: Electrostatic Discharge Immunity (Indirect Contact VCP)**

| EN 61000-4-2 Test Points Location | Test Levels | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | -2 kV | +2 kV | -4 kV | +4 kV | -6 kV | +6 kV | -8 kV | +8 kV |
| Front Side | / | / | A | A | / | / | / | / |
| Back Side | / | / | A | A | / | / | / | / |
| Left Side | / | / | A | A | / | / | / | / |
| Right Side | / | / | A | A | / | / | / | / |





Note:

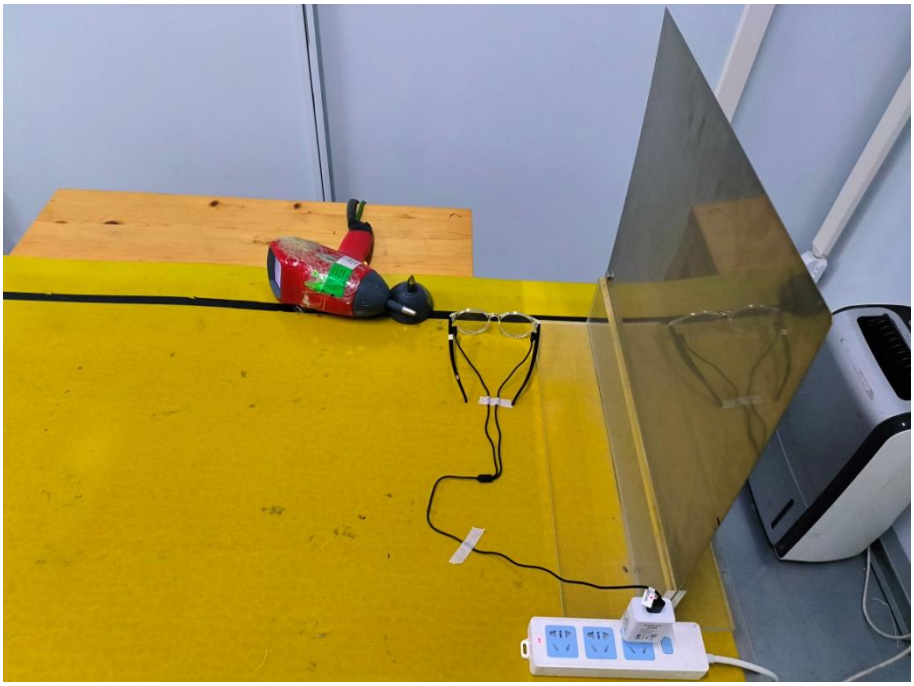
represents Air Discharge

represents Contact Discharge

*Note: The list is only for photos of the location where the discharge can be made, the others not listed are without discharge points, or not the EUT part.*

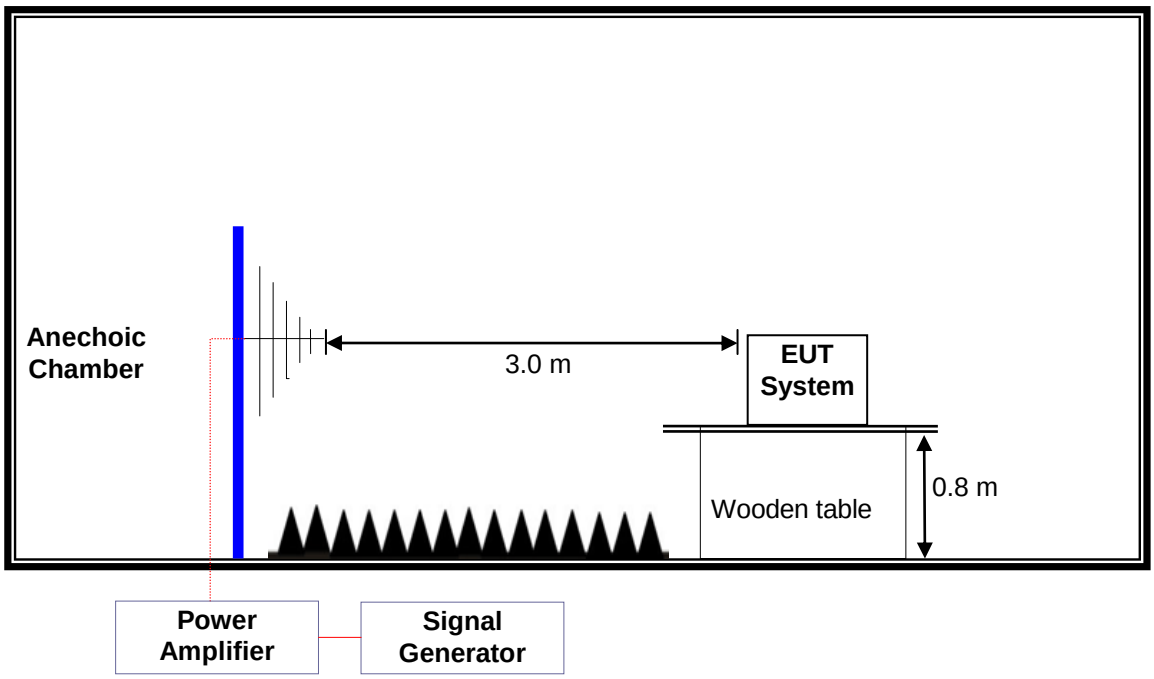
## Test Setup Photo

### Test Mode 1



# BS EN 55035§4.2.2.2-CONTINUOUS RADIATED IMMUNITY

## Test System Setup




## Test Standard

BS EN 55035:2017+A11:2020, IEC 61000-4-3:2006+A1:2007+A2:2010

## Test Level

| Level | Field Strength (V/m) | Performance Criterion |
|---|---|---|
| 1 | 1 | A |
| 2 | 3 | |
| 3 | 10 | |
| X | Special | |
| Note: X can be any level, above, below or in between the other levels. This level can be specified in the product standard. | | |

## Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above the ground. The EUT is set 3 meters away from the transmitting antenna which is mounted on an antenna tower. Both horizontal("H") and vertical("V") polarizations of the antenna are set on test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually.

In order to judge the EUT performance, a CCD camera was used to monitor the EUT.

All the scanning conditions are as follows:

| | Condition of Test | Remarks |
|---|---|---|
| 1 | Field Strength | 3 V/m (Test level 2) |
| 2 | Radiated Signal | AM 80%, 1kHz, Modulation |
| 3 | Scanning Frequency | 80-1000 MHz, 1800MHz, 2600MHz, 3500MHz, 5000MHz |
| 4 | Frequency step | 1% |
| 5 | Dwell Time | 1 sec |

## Test Data and Test Setup Photo

### Environmental Conditions

| | |
|---|---|
| **Temperature:** | 24 ℃ |
| **Relative Humidity:** | 52 % |
| **ATM Pressure:** | 100.6 kPa |
| **Test Engineer:** | Lucy Song |
| **Test Date:** | 2026-05-22 |
| **EUT Operation Mode:** | Test Mode 1 |

**Test Result:** Please refer to following data.

**Table 1:** Radiated RF-Electromagnetic Field Immunity

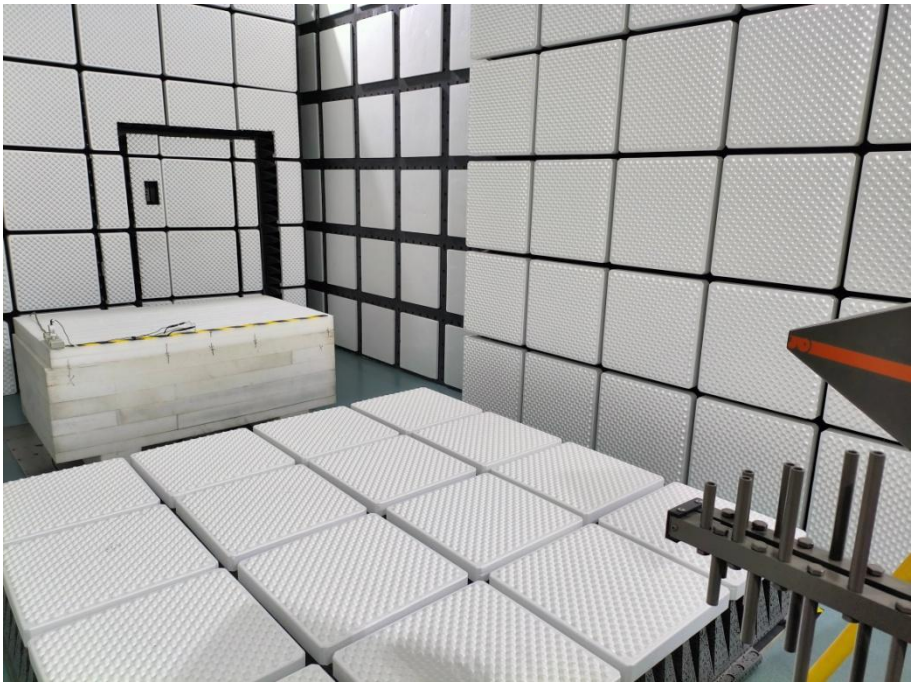
| Frequency Range (MHz) | Front Side | | Rear Side | | Left Side | | Right Side | |
|---|---|---|---|---|---|---|---|---|
| | V | H | V | H | V | H | V | H |
| 80-1000 | A | A | A | A | A | A | A | A |

**Table 2:** Radiated RF-Electromagnetic Field Immunity

| Frequency Range (MHz) | Front Side | | Rear Side | | Left Side | | Right Side | |
|---|---|---|---|---|---|---|---|---|
| | V | H | V | H | V | H | V | H |
| 1800, 2600, 3500, 5000 | A | A | A | A | A | A | A | A |

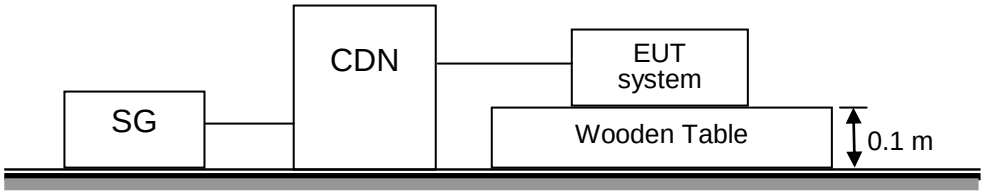
## Test Setup Photo

### Test Mode 1



# BS EN 55035§4.2.2.3-CONTINUOUS CONDUCTED IMMUNITY

## Test Setup




## Test Standard

BS EN 55035:2017+A11:2020, IEC 61000-4-6:2008

## Test Level

| Frequency (MHz) | Voltage Level (r.m.s.) (V) | Performance Criterion |
|---|---|---|
| 0.15 to 10 | 3 | A |
| 10 to 30 | 3 to 1 | |
| 30 to 80 | 1 | |

## Test Procedure

1) Let the EUT work in test mode and test it.
2) The EUT are placed on an insulating support 0.1 m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3 m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).
3) The disturbance signal described below is injected to EUT through CDN.
4) The EUT operates within its operational mode(s) under intended climatic conditions after power on.
5) The frequency range is swept from 150 kHz to 80 MHz using signal level(refer test level), and with the disturbance signal 80% amplitude modulated with a 1 kHz sine wave.
6) The rate of sweep shall not exceed 1.5*10-3decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
7) An artificial ear and sound level meter are used to monitor the sound pressure level. RF communication test set is used to monitor the noise level.
8) Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.
9) The EUT DC line is less 3 meters, it’s unnecessary to test.

# Test Data and Test Setup Photo

## Environmental Conditions

| | |
|---|---|
| **Temperature:** | 25 ℃ |
| **Relative Humidity:** | 51 % |
| **ATM Pressure:** | 100.6 kPa |
| **Test Engineer:** | Lucy Song |
| **Test Date:** | 2026-05-22 |
| **EUT Operation Mode:** | Test Mode 1 |

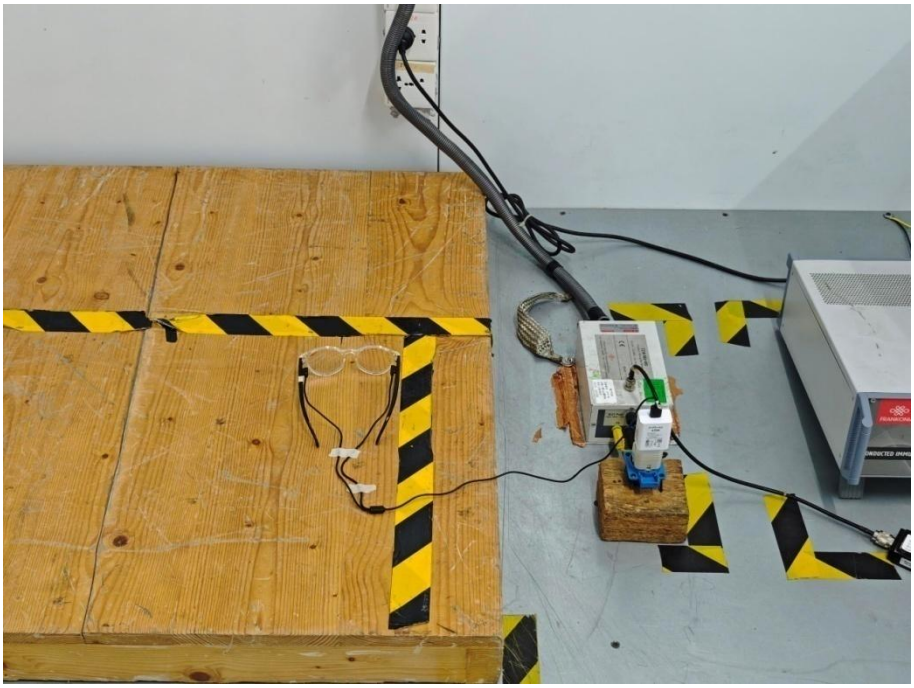
**Test Result:** Please refer to following data.

Table 1: AC Mains power input port
Modulation: Amplitude 80%, 1 kHz sine wave

| Frequency (MHz) | Voltage Level (r.m.s.) (V) | Result |
|---|---|---|
| 0.15 to 10 | 3 | A |
| 10 to 30 | 3 to 1 | A |
| 30 to 80 | 1 | A |
| X | Special | / |

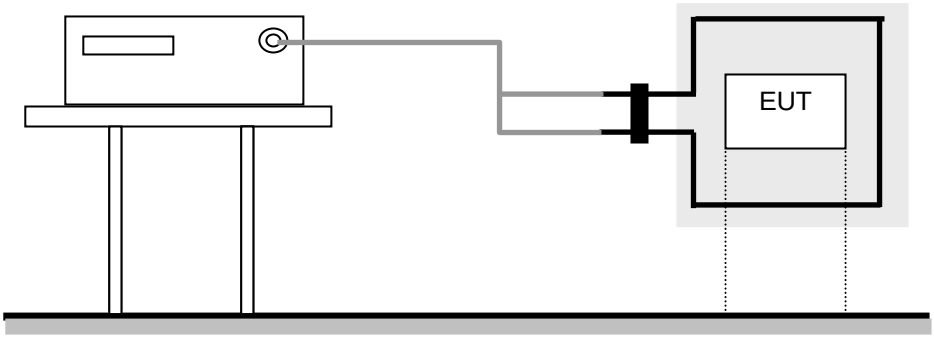
# Test Setup Photo

## Test Mode 1



# BS EN 55035§4.2.3-POWER FREQUENCY MAGNETIC FIELDS

## Test Setup




## Test Standard

BS EN 55035:2017+A11:2020, IEC 61000-4-8:2009

## Test Level

| Level | Magnetic Field Strength (A/m) | Performance Criterion |
|---|---|---|
| 1 | 1 | A |
| 2 | 3 | |
| 3 | 10 | |
| 4 | 30 | |
| 5 | 100 | |

## Test Procedure

The EUT shall be subjected to the test magnetic field by using the induction coil of standard dimensions (1 m*1 m). The induction coil shall then be rotated by 90°in order to expose the EUT to the test field with different orientations.

# Test Data and Test Setup Photo

## Environmental Conditions

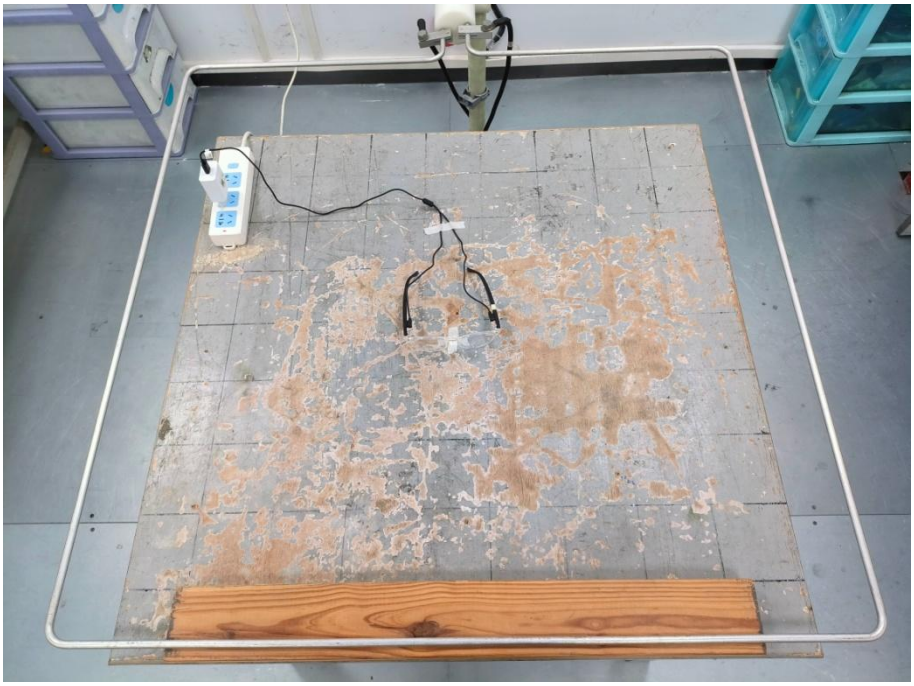
| | |
|---|---|
| **Temperature:** | 25 ℃ |
| **Relative Humidity:** | 55 % |
| **ATM Pressure:** | 100.6 kPa |
| **Test Engineer:** | Lucy Song |
| **Test Date:** | 2026-05-22 |
| **EUT Operation Mode:** | Test Mode 1 |

**Test Result:** Please refer to following data.

| Level | Magnetic Field Strength (A/m) | X (Horizontal) | Y (Vertical) | Z (Special) |
|---|---|---|---|---|
| 1 | 1 | A | A | A |
| 2 | 3 | / | / | / |
| 3 | 10 | / | / | / |
| 4 | 30 | / | / | / |
| 5 | 100 | / | / | / |

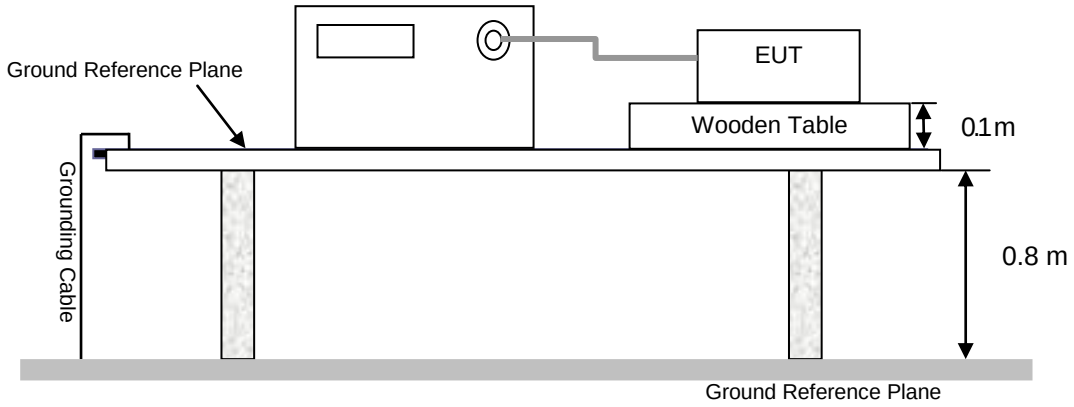
# Test Setup Photo

## Test Mode 1



# BS EN 55035§4.2.4-ELECTRICAL FAST TRANSIENTS

## Test System Setup




## Test Standard

BS EN 55035:2017+A11:2020, IEC 61000-4-4:2012

## Test Level

| Open Circuit Output Test Voltage ±10% | | | Performance Criterion |
|---|---|---|---|
| Level | On Power Supply Lines | On I/O (Input/Output) Signal data and control lines | |
| 1 | 0.5 kV | 0.25 kV | B |
| 2 | 1 kV | 0.5 kV | |
| 3 | 2 kV | 1 kV | |
| 4 | 4 kV | 2 kV | |
| X | Special | Special | |
| Note: X can be any level, above, below or in between the others. This level shall be specified in the dedicated equipment specfication. | | | |

## Test Procedure

The EUT was arranged for Power Line Coupling and for I/O Line Coupling through a capacitive clamp, where applicable. (Note: The DC or I/O coupling test using a capacitive clamp is performed on the DC or I/O interface cables that are longer in length than 3 meters.) A metal ground plane 2.4 meter by 2.0 meter was placed between the floor and the table and is connected to the earth by a 2.0 meter ground rod. The ground rod is connected to the test facility's electrical earth.

Note: The DC or I/O cable is less than 3 meter, It's unnecessary to test

# Test Data and Test Setup Photo

## Environmental Conditions

| | |
|---|---|
| **Temperature:** | 25 ℃ |
| **Relative Humidity:** | 55 % |
| **ATM Pressure:** | 100.6 kPa |
| **Test Engineer:** | Lucy Song |
| **Test Date:** | 2026-05-22 |
| **EUT Operation Mode:** | Test Mode 1 |

**Test Result:** Please refer to following data.

Table 1

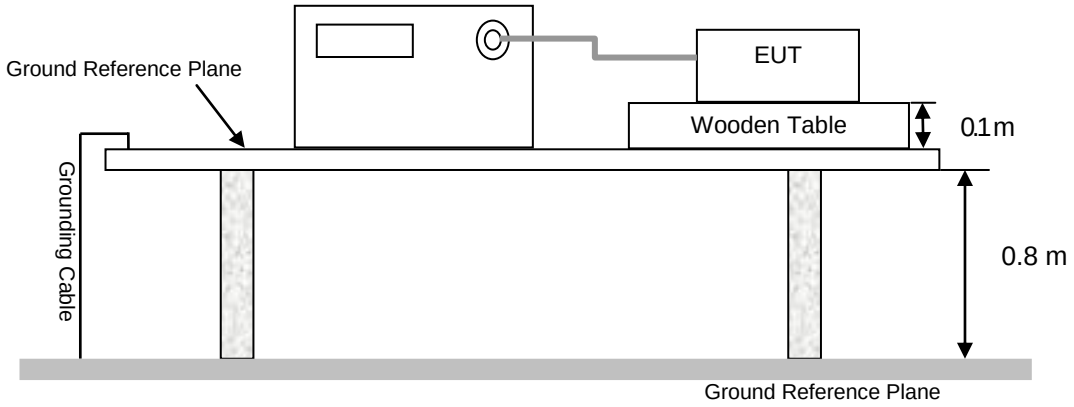
| IEC 61000-4-4 Test Points | | Test Levels (kV) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | +0.5 | -0.5 | +1.0 | -1.0 | +2.0 | -2.0 | +4.0 | -4.0 |
| AC mains power input ports | L | / | / | A | A | / | / | / | / |
| | N | / | / | A | A | / | / | / | / |
| | PE | / | / | / | / | / | / | / | / |
| | L/N | / | / | A | A | / | / | / | / |
| | L/PE | / | / | / | / | / | / | / | / |
| | N/PE | / | / | / | / | / | / | / | / |
| | L/N/PE | / | / | / | / | / | / | / | / |

# Test Setup Photo

## Test Mode 1

# BS EN 55035§4.2.5-SURGES

## Test System Setup




## Test Standard

BS EN 55035:2017+A11:2020, IEC 61000-4-5:2005

## Test Level

| Level | Open Circuit Output Test Voltage ±10% | Performance Criterion |
|---|---|---|
| 1 | 0.5 kV | B |
| 2 | 1 kV | |
| 3 | 2 kV | |
| 4 | 4 kV | |
| X | Special | |
| Note: X can be any level, above, below or in between the other levels. This level can be specified in the product standard. | | |

## Test Procedure

1) For input a.c. power ports, provide a 1.2/50μs voltage surge (at open-circuit condition) and a 8/20 μs current surge into a short circuit.
2) For telecommunication port, provide a 10/700μs voltage surge (at open-circuit condition) and a 5/320 μs current surge into a short circuit.
3) At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.
4) Different phase angles are done individually.
5) Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

# Test Data and Test Setup Photo

## Environmental Conditions

| | |
|---|---|
| **Temperature:** | 25 ℃ |
| **Relative Humidity:** | 55 % |
| **ATM Pressure:** | 100.6 kPa |
| **Test Engineer:** | Lucy Song |
| **Test Date:** | 2026-05-22 |
| **EUT Operation Mode:** | Test Mode 1 |

**Test Result:** Please refer to following data.

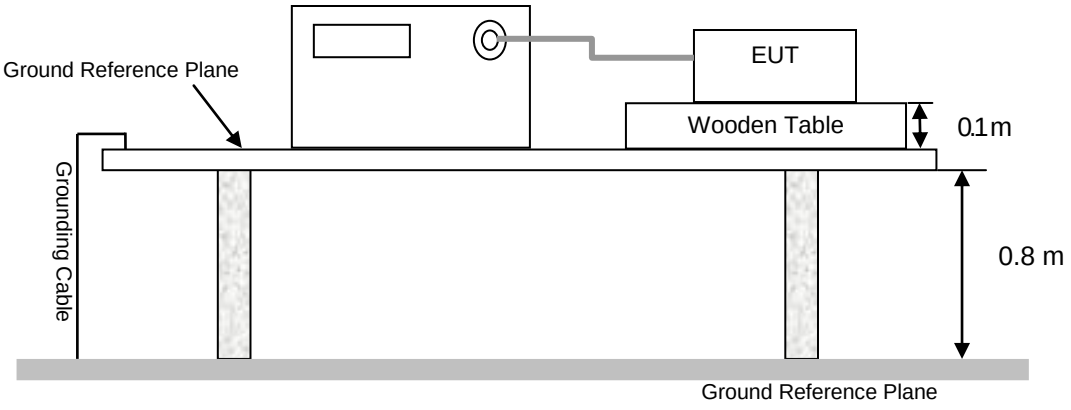
| Level | Voltage | Poll | Phase Angle | Path | Result |
|---|---|---|---|---|---|
| 1 | 0.5kV | + | 90 | L/N | A |
| 1 | 0.5kV | - | 270 | L/N | A |
| 2 | 1kV | + | 90 | L/N | A |
| 2 | 1kV | - | 270 | L/N | A |

# Test Setup Photo

## Test Mode 1

# BS EN 55035§4.2.6-VOLTAGE DIPS AND INTERRUPTIONS

## Test Setup




## Test Standard

BS EN 55035:2017+A11:2020, IEC 61000-4-11:2004

## Test Levels and Performance Criterion

| Test Level | Residual voltage (%) | Duration (Periods) | Performance Criterion |
|---|---|---|---|
| 1 | <5 | 0.5 | B |
| 2 | 70 | 25 | C |
| 3 | <5 | 250 | C |

## Test Procedure

1) The interruption is introduced at selected phase angles with specified duration.

2) Record any degradation of performance.

# Test Data and Test Setup Photo

## Environmental Conditions

| | |
|---|---|
| **Temperature:** | 25 ℃ |
| **Relative Humidity:** | 55 % |
| **ATM Pressure:** | 100.6 kPa |
| **Test Engineer:** | Lucy Song |
| **Test Date:** | 2026-05-22 |
| **EUT Operation Mode:** | Test Mode 1 |

**Test Result:** Please refer to following data.

| Level | Residual voltage (%) | Td(Periods) | Phase Angle | N | Result |
|---|---|---|---|---|---|
| 1 | 0 | 0.5 | 0°/180° | 3 | A |
| 2 | 70 | 25 | 0°/180° | 3 | A |
| 3 | 0 | 250 | 0°/180° | 3 | B |

Note: [A] means No loss of function, [B] means charging interrupt and restore automatically, [C] means Reset by operator

# Test Setup Photo

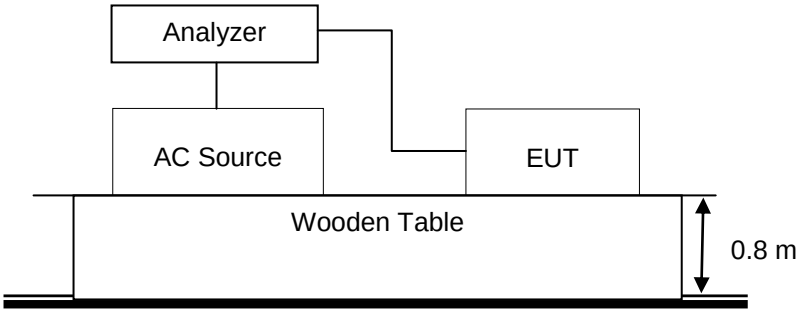
## Test Mode 1

# BS EN IEC 61000-3-2 -HARMONIC CURRENT EMISSIONS

According to EN IEC 61000-3-2: Equipment with a rated power of 1 W in test mode 1, less than 75W, other than lighting equipment, limits are not specified in this standard.

# BS EN 61000-3-3 -VOLTAGE FLUCTUATION AND FLICKER

## Test System Setup




## Test Standard

BS EN 61000-3-3:2013+A2:2021

**Flicker Test Limits:**

The limits shall be applicable to voltage fluctuations and flicker at the supply terminals of the equipment under test, measured or calculated according to clause 4 under test conditions described in clause 6 and annex A. Tests made to prove compliance with the limits are considered to be type tests.
The following limits apply:

– the value of $P_{st}$ shall not be greater than 1,0;

– the value of $P_{lt}$ shall not be greater than 0,65;

– the value of d(t) during a voltage change shall not exceed 3,3 % for more than 500 ms;

– the relative steady-state voltage change, dc, shall not exceed 3,3 %;

– the maximum relative voltage change $d_{max}$, shall not exceed.

a) 4 % without additional conditions;

b) 6 % for equipment which is:

– switched manually, or

– switched automatically more frequently than twice per day, and also has either a delayed restart (the delay being not less than a few tens of seconds), or manual restart, after a power supply interruption.

Note: The cycling frequency will be further limited by the $P_{st}$ and $P_{lt}$ limit. For example: a $d_{max}$ of 6 % producing a rectangular voltage change characteristic twice per hour will give a $P_{lt}$ of about 0.65.

c) 7 % for equipment which is

– attended whilst in use (for example: hair dryers, vacuum cleaners, kitchen equipment such as mixers, garden equipment such as lawn mowers, portable tools such as electric drills), or

– switched on automatically, or is intended to be switched on manually, no more than twice per day, and also has either a delayed restart (the delay being not less than a few tens of seconds) or manual restart, after a power supply interruption.

In the case of equipment having several separately controlled circuits in accordance with 6.6, limits b) and c) shall apply only if there is delayed or manual restart after a power supply interruption; for all equipment with automatic switching which is energized immediately on restoration of supply after a power supply interruption, limits a) shall apply; for all equipment with manual switching, limits b) or c) shall apply depending on the rate of switching. $P_{st}$ and $P_{lt}$ requirements shall not be applied to voltage changes caused by manual switching. The limits shall not be applied to voltage changes associated with emergency switching or emergency interruptions.

## Test Data and Test Setup Photo

| | |
|---|---|
| **Temperature:** | 25 ℃ |
| **Relative Humidity:** | 53 % |
| **ATM Pressure:** | 100.6 kPa |
| **Test Date:** | 2026-05-22 |
| **Tester:** | Lucy Song |
| **Short time ($P_{st}$):** | 10 min |
| **Observation Time:** | 10 min (1 Flicker measurement) |
| **EUT operation mode:** | Test Mode 1 |

**Test Result:** Please refer to the following data.

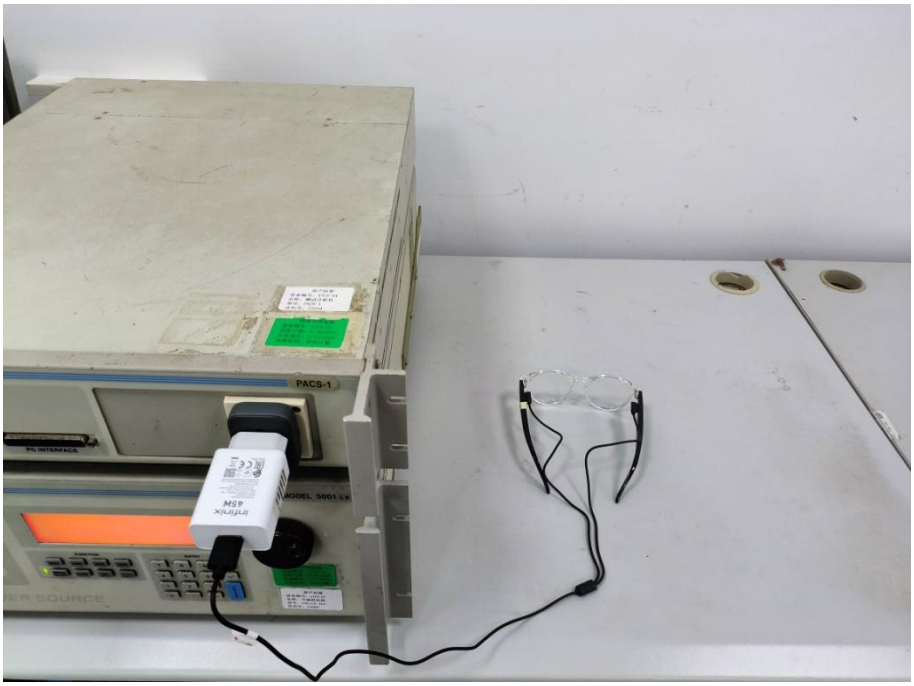
### Maximum Flicker Results

**$V_{rms}$ at the end of test (Volt): 229.66**

| | EUT values | Limit | Result |
|---|---|---|---|
| **$d_t$ [ms]** | 0 | 500.0 | Pass |
| **$d_c$ [%]** | 0.00 | 3.30 | Pass |
| **$d_{max}$ [%]** | 0.00 | 4.00 | Pass |
| **$P_{st}$** | 0.248 | 1.000 | Pass |

# Test Setup Photo

## Test Mode 1



# EXHIBIT A-EUT PHOTOGRAPHS

Please refer to the Attachment of 2604T13671E EUT Photographs.

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