# TEST REPORT

| | |
|---|---|
| **Report Number**: | ZKT-251224L31016E |
| Date of Test: | Dec. 9, 2025 - Dec. 15, 2025 |
| Date of issue: | Dec. 15, 2025 |
| Total number of pages: | 19 |
| Test Result : | PASS |
| **Testing Laboratory**: | **Shenzhen ZKT Technology Co., Ltd.** |
| Address : | 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China |
| **Applicant's name :** | **SHENZHEN LINSN LED CO., LTD** |
| Address : | Building 2, Hongfa High-tech Park, Shiyan Street, Baoan District, Shenzhen, China. |
| **Manufacturer's name :** | **SHENZHEN LINSN LED CO., LTD** |
| Address : | Building 2, Hongfa High-tech Park, Shiyan Street, Baoan District, Shenzhen, China. |
| **Test specification:** | |
| Standard : | J55032 (H29) |
| Test procedure: | / |
| Non-standard test method : | / |
| **Test Report Form No.:** | TRF-EL-143_V0 |
| **Test Report Form(s) Originator:** | ZKT Testing |
| **Master TRF :** | Dated: 2020-01-06 |

This device described above has been tested by ZKT, and the test results show that the equipment under test (EUT) is in compliance with the 2014/30/EU Directive requirements. And it is applicable only to the tested sample identified in the report.
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| | |
|---|---|
| **Product name:** | **LED DISPIAY** |
| Trademark : | / |
| Model/Type reference: | MY500-P3.91<br>MY500-P1.5625, P1.953, P2.604, P2.976, P3.91, P4.81 |
| Ratings: | Input: AC 100 V - 240 V, 50 / 60 Hz |

**Testing procedure and testing location:**

| | |
|---|---|
| **Testing Laboratory.....:** | **Shenzhen ZKT Technology Co., Ltd.** |
| Address.....: | 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China |
| Tested by (name + signature).....: | Jim Liu |
| Reviewer (name + signature).....: | Jackson Fang |
| Approved (name + signature).....: | Lake Xie |

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# 1. VERSION

| Report No. | Version | Description | Approved |
|---|---|---|---|
| ZKT-251224L31016E | Rev.01 | Initial issue of report | Dec. 15, 2025 |
| | | | |

# 2. GENERAL INFORMATION

## 2.1 Description of Device (EUT)

| | |
|---|---|
| Product | LED DISPIAY |
| Model Name | MY500-P3.91 |
| Model Difference | MY500-P3.91 is the test model, while other models are derivative models. These models are the same on the circuit, only with different model names and pixel pitch. Therefore, the test data of MY500-P3.91 can represent the remaining models. |
| Rated Power Supply | Input: AC 100 V - 240 V, 50 / 60 Hz |
| I/O Ports | Refer to User Manual |
| Highest Frequency Generated | Below 108 MHz |

## 2.2 Other Accessory Device List and Details

| Description | Manufacturer | Model | Note |
|---|---|---|---|
| / | / | / | / |
| / | / | / | / |

## 2.3 Test Facility

| | | |
|---|---|---|
| Site Description | | |
| Name of Firm | : | Shenzhen ZKT Technology Co., Ltd. |
| Site Location | : | 1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China |

## 2.4 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| Test item | Value (dB) |
|---|---|
| Conducted Emission (150kHz-30MHz) | 3.20 |
| Radiated Emission(30MHz~1GHz) | 4.80 |

## 2.5 Test Instrument Used

For Conducted Emission at the mains terminals Test

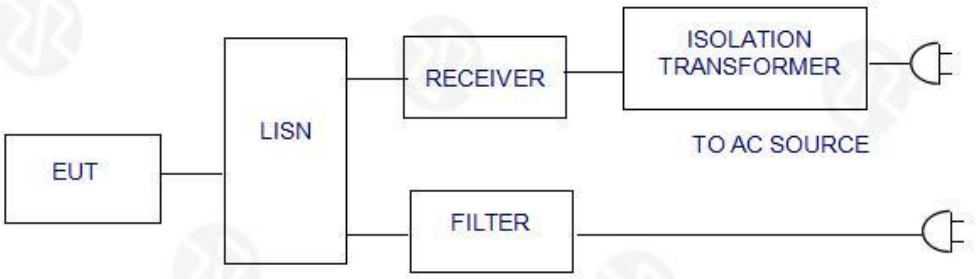
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Firmware Version | Last calibration | Calibrated until |
|---|---|---|---|---|---|---|---|
| 1 | LISN | R&S | ENV216 | 101471 | N/A | Sep. 29, 2025 | Sep. 28, 2026 |
| 2 | LISN | CYBERTEK | EM5040A | E1850400149 | N/A | Sep. 29, 2025 | Sep. 28, 2026 |
| 3 | Test Cable | N/A | C-01 | N/A | N/A | Sep. 29, 2025 | Sep. 28, 2026 |
| 4 | Test Cable | N/A | C-02 | N/A | N/A | Sep. 29, 2025 | Sep. 28, 2026 |
| 5 | Test Cable | N/A | C-03 | N/A | N/A | Sep. 29, 2025 | Sep. 28, 2026 |
| 6 | EMI Test Receiver | R&S | ESCI3 | 101393 | 4.42 SP3 | Sep. 28, 2025 | Sep. 27, 2026 |
| 7 | Triple-Loop Antenna | N/A | RF300 | 9194 | N/A | Sep. 28, 2025 | Sep. 27, 2026 |
| 8 | Absorbing Clamp | DZ | ZN23201 | 15034 | N/A | Oct. 09, 2025 | Oct. 10, 2026 |
| 9 | EMC Software | Frad | EZ-EMC | Ver.EMC-CON 3A1.1 | N/A | \ | \ |

For Radiated Emission Test

| Item | Equipment | Manufacturer | Type No. | Serial No. | Firmware Version | Last calibration | Calibrated until |
|---|---|---|---|---|---|---|---|
| 1 | Spectrum Analyzer (9kHz-26.5GHz) | KEYSIGHT | N9020A | MY55370835 | A.17.05 | Sep. 28, 2025 | Sep. 27, 2026 |
| 2 | Spectrum Analyzer (10kHz-39.9GHz) | R&S | FSV40-N | 100363 | 1.71 SP2 | Sep. 29, 2025 | Sep. 28, 2026 |
| 3 | EMI Test Receiver (9kHz-7GHz) | R&S | ESCI7 | 100969 | 4.32 | Sep. 28, 2025 | Sep. 27, 2026 |
| 4 | Bilog Antenna (30MHz-1500MHz) | Schwarzbeck | VULB9168 | 00877 | N/A | Sep. 29, 2025 | Sep. 28, 2026 |
| 5 | Horn Antenna (1GHz-18GHz) | Agilent | AH-118 | 071145 | N/A | Sep. 29, 2025 | Sep. 28, 2026 |
| 6 | Horn Antenna (15GHz-40GHz) | A.H.System | SAS-574 | 588 | N/A | Sep. 29, 2025 | Sep. 28, 2026 |
| 7 | Loop Antenna | TESEQ | HLA6121 | 58357 | N/A | Oct. 10, 2025 | Oct. 09, 2026 |
| 8 | Amplifier (30-1000MHz) | EM Electronics | EM330 Amplifier | 60747 | N/A | Sep. 28, 2025 | Sep. 27, 2026 |
| 9 | Amplifier (1GHz-26.5GHz) | HuiPu | 8449B | 3008A00315 | N/A | Sep. 29, 2025 | Sep. 28, 2026 |
| 10 | Amplifier (500MHz-40GHz) | QuanJuDa | DLE-161 | 097 | N/A | Sep. 29, 2025 | Sep. 28, 2026 |
| 11 | Test Cable | N/A | R-01 | N/A | N/A | Sep. 29, 2025 | Sep. 28, 2026 |
| 12 | Test Cable | N/A | R-02 | N/A | N/A | Sep. 29, 2025 | Sep. 28, 2026 |
| 13 | Test Cable | N/A | R-03 | N/A | N/A | Sep. 29, 2025 | Sep. 28, 2026 |
| 14 | D.C. Power Supply | LongWei | TPR-6405D | N/A | N/A | \ | \ |
| 15 | EMC Software | Frad | EZ-EMC | Ver.EMC-CON 3A1.1 | N/A | \ | \ |
| 16 | Turntable | MF | MF-7802BS | N/A | N/A | \ | \ |
| 17 | Antenna tower | MF | MF-7802BS | N/A | N/A | \ | \ |

# 3. CONDUCTED EMISSION AT THE MAINS TERMINALS TEST

## 3.1 Block Diagram Of Test Setup




## 3.2 Test Standard

J55032 (H29)

## 3.3 Power Line Conducted Emission Limit

| Frequency MHz | Limits dB(μV) | |
|---|---|---|
| | Quasi-peak Level | Average Level |
| 0.15 ~ 0.50 | 66 ~ 56* | 59 ~ 46* |
| 0.50 ~ 5.00 | 56 | 46 |
| 5.00 ~ 30.00 | 60 | 50 |

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

## 3.4 EUT Configuration on Test

The following equipment are installed on conducted emission test to meet J55015(H29) requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

## 3.5 Operating Condition of EUT

3.5.1 Setup the EUT and simulators as shown in Section 3.1.
3.5.2 Turn on the power of all equipment.
3.5.3 Let the EUT work in test modes and test it.

## 3.6 Test Procedure

The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 Ohm/ 50uH of couplingimpedance for the measuring instrument.

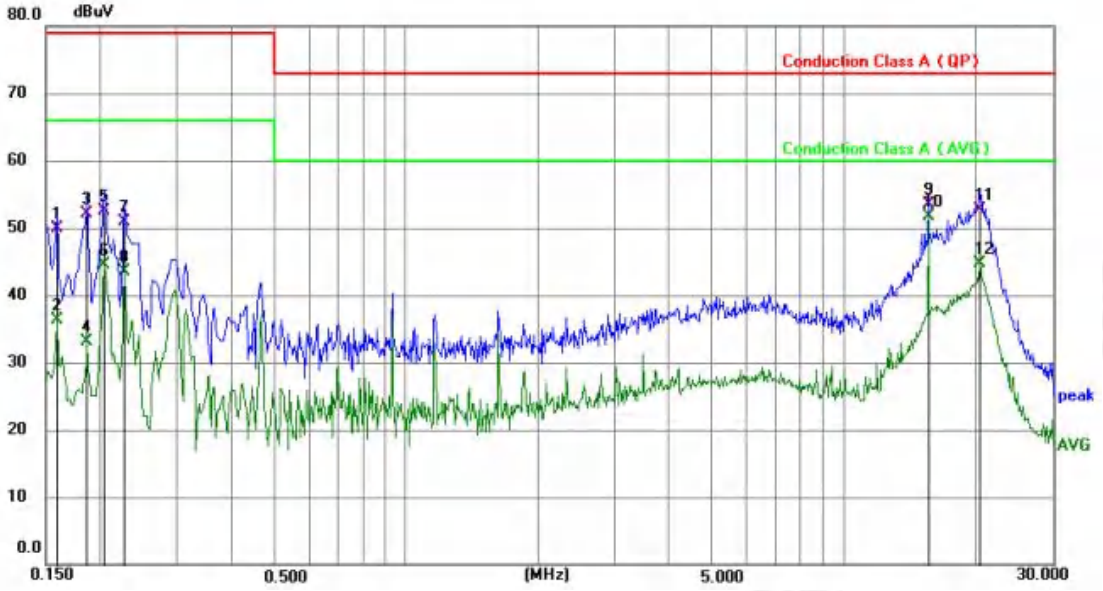
The bandwidth of the test receiver (R&S Test Receiver ESCI) is set at 10kHz.

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

## 3.7 Test Result

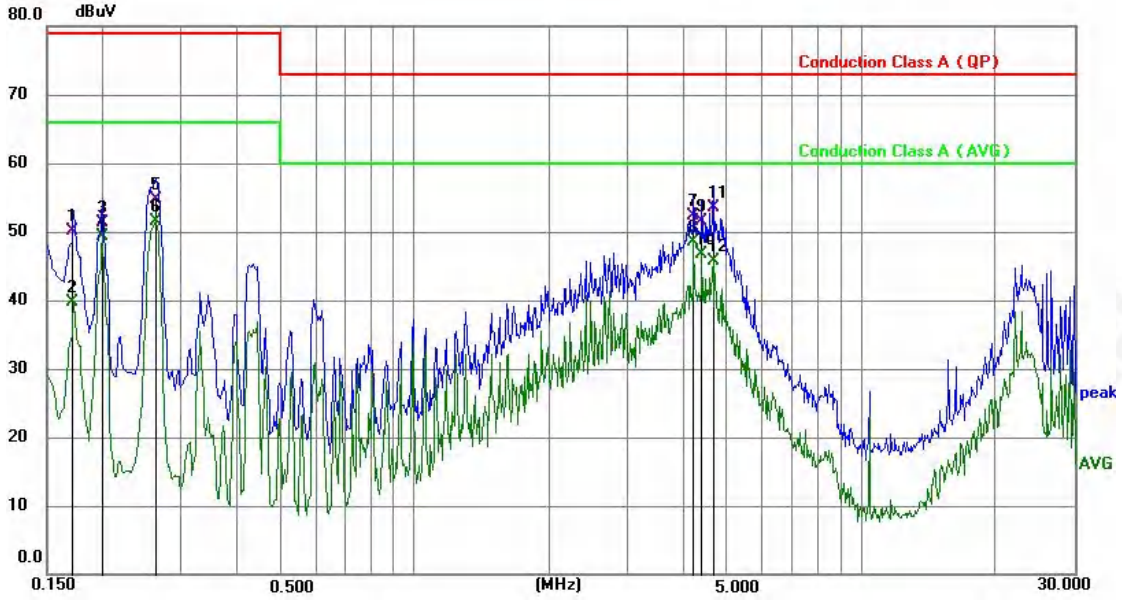
PASS
Please refer to the following page.Only the Worst-case test mode is shown in the report.

| Conducted Emission At The Mains Terminals Test Data | | | |
|---|---|---|---|
| Temperature: | 23.3℃ | Relative Humidity: | 54% |
| Pressure: | 1012hPa | Phase : | Live |
| Test Voltage : | AC 100V/60Hz | Test Mode: | Working mode |




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.1724 | 41.58 | 9.90 | 51.48 | 79.00 | -27.52 | QP | P | |
| 2 | 0.1724 | 29.99 | 9.90 | 39.89 | 66.00 | -26.11 | AVG | P | |
| 3 | 0.1995 | 42.49 | 9.91 | 52.40 | 79.00 | -26.60 | QP | P | |
| 4 | 0.1995 | 41.04 | 9.91 | 50.95 | 66.00 | -15.05 | AVG | P | |
| 5 | 0.2602 | 47.53 | 9.93 | 57.46 | 79.00 | -21.54 | QP | P | |
| 6 | 0.2602 | 44.35 | 9.93 | 54.28 | 66.00 | -11.72 | AVG | P | |
| 7 | 4.2134 | 40.73 | 10.10 | 50.83 | 73.00 | -22.17 | QP | P | |
| 8 | 4.2134 | 37.36 | 10.10 | 47.46 | 60.00 | -12.54 | AVG | P | |
| 9 | 4.3980 | 41.72 | 10.10 | 51.82 | 73.00 | -21.18 | QP | P | |
| 10 | 4.3980 | 38.19 | 10.10 | 48.29 | 60.00 | -11.71 | AVG | P | |
| 11 | 4.6455 | 42.08 | 10.11 | 52.19 | 73.00 | -20.81 | QP | P | |
| 12 * | 4.6455 | 38.39 | 10.11 | 48.50 | 60.00 | -11.50 | AVG | P | |

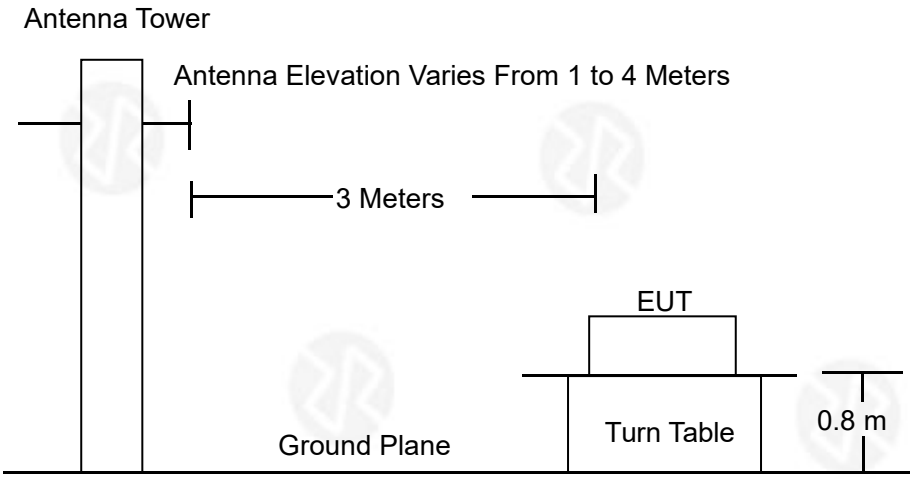
| Conducted Emission At The Mains Terminals Test Data | | | |
|---|---|---|---|
| Temperature: | 23.3℃ | Relative Humidity: | 54% |
| Pressure: | 1012hPa | Phase : | Neutral |
| Test Voltage : | AC 100V/60Hz | Test Mode: | Working mode |




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector | P/F | Remark |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.1720 | 40.13 | 9.90 | 50.03 | 79.00 | -28.97 | QP | P | |
| 2 | 0.1720 | 29.71 | 9.90 | 39.61 | 66.00 | -26.39 | AVG | P | |
| 3 | 0.1995 | 41.47 | 9.91 | 51.38 | 79.00 | -27.62 | QP | P | |
| 4 | 0.1995 | 39.38 | 9.91 | 49.29 | 66.00 | -16.71 | AVG | P | |
| 5 | 0.2625 | 44.76 | 9.94 | 54.70 | 79.00 | -24.30 | QP | P | |
| 6 | 0.2625 | 41.50 | 9.94 | 51.44 | 66.00 | -14.56 | AVG | P | |
| 7 | 4.2134 | 42.15 | 10.10 | 52.25 | 73.00 | -20.75 | QP | P | |
| 8 * | 4.2134 | 38.35 | 10.10 | 48.45 | 60.00 | -11.55 | AVG | P | |
| 9 | 4.3980 | 41.34 | 10.10 | 51.44 | 73.00 | -21.56 | QP | P | |
| 10 | 4.3980 | 36.52 | 10.10 | 46.62 | 60.00 | -13.38 | AVG | P | |
| 11 | 4.6500 | 43.34 | 10.11 | 53.45 | 73.00 | -19.55 | QP | P | |
| 12 | 4.6500 | 35.53 | 10.11 | 45.64 | 60.00 | -14.36 | AVG | P | |

# 4. RADIATED EMISSION TEST

## 4.1 Block Diagram of Test Setup




## 4.2 Test Standard

J55032 (H29)

## 4.3 Radiation Limit

| Frequency MHz | Distance (Meters) | Field Strengths Limits dB(μV)/m |
|---|---|---|
| 30 ~ 230 | 3 | 40.0 |
| 230 ~ 1000 | 3 | 47.0 |

Remark:

(1) Emission level (dB(μV)/m) = 20 log Emission level (μV/m)

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

(3) Distance refers to the distance in meters between the measuring instrument, antenna and the closed point of any part of the device or system.

## 4.4 EUT Configuration on Test

The J55032 (H29) regulations test method must be used to find the maximum emission during radiated emission test.
The configuration of EUT is the same as used in conducted emission test.
Please refer to Section 2.2.

## 4.5 Operating Condition of EUT

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

## 4.6 Test Procedure

The EUT and its simulators are placed on a turned table that is 0.8 meter above the ground. The turned table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna that is mounted on the antenna tower. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated biconical and log periodical antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on test. In order to find the maximum emission levels, the interface cable must be manipulated according to J55032 (H29) on radiated emission test.

The bandwidth setting on the field strength meter (R&S Test Receiver ESCI) is set at 120kHz.

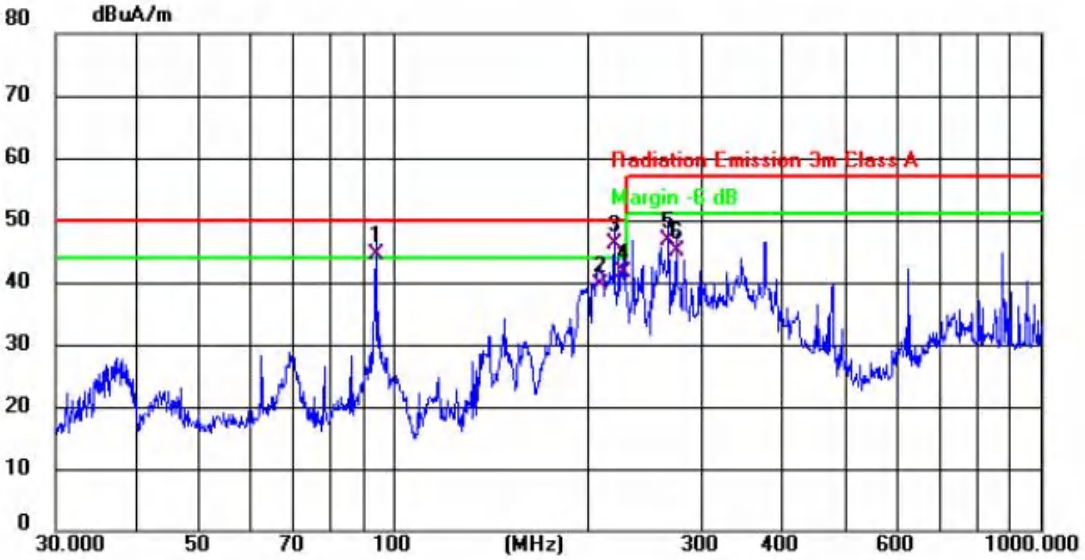
The frequency range from 30MHz to 1000MHz is checked.

## 4.7 Test Result

PASS

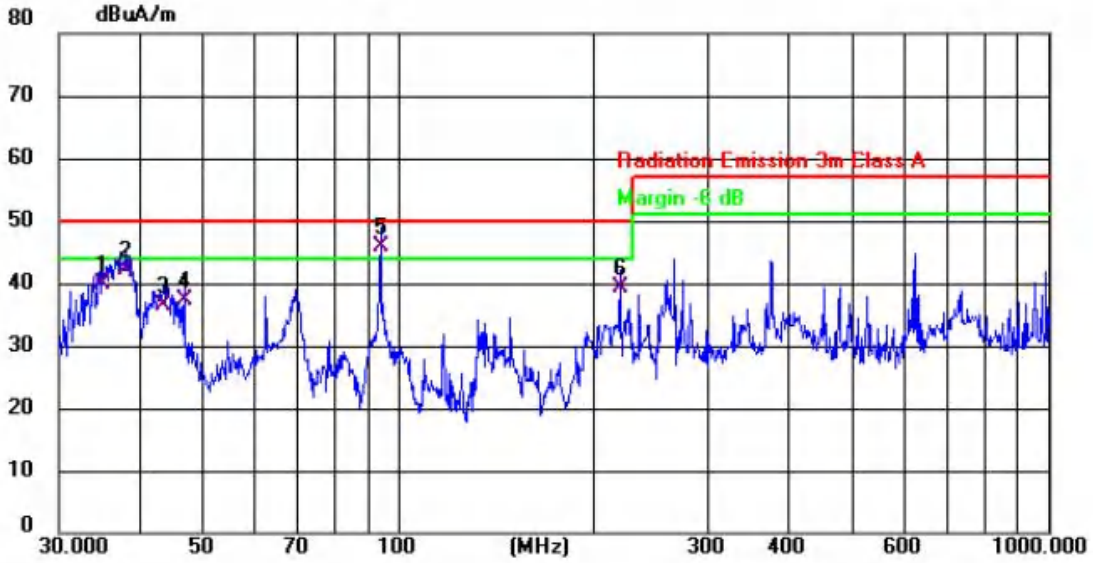
Please refer to the following page.Only the Worst-case test mode is shown in the report.

| Radiation Emission Test Data | | | |
|---|---|---|---|
| Temperature: | 26.1℃ | Relative Humidity: | 52% |
| Pressure: | 1014hPa | Phase : | Horizontal |
| Test Voltage : | AC 100V/60Hz | Test Mode: | Working mode |




| No. | Frequency (MHz) | Reading (dBuV) | Factor (dBS/m) | Level (dBuA/m) | Limit (dBuA/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 ! | 93.7682 | 55.23 | -10.89 | 44.34 | 50.00 | -5.66 | QP | | | P | |
| 2 | 209.3130 | 49.21 | -9.65 | 39.56 | 50.00 | -10.44 | QP | | | P | |
| 3 * | 219.0751 | 55.31 | -9.28 | 46.03 | 50.00 | -3.97 | QP | | | P | |
| 4 | 226.8934 | 50.48 | -9.00 | 41.48 | 50.00 | -8.52 | QP | | | P | |
| 5 | 265.6757 | 54.58 | -7.86 | 46.72 | 57.00 | -10.28 | QP | | | P | |
| 6 | 273.2340 | 52.61 | -7.71 | 44.90 | 57.00 | -12.10 | QP | | | P | |

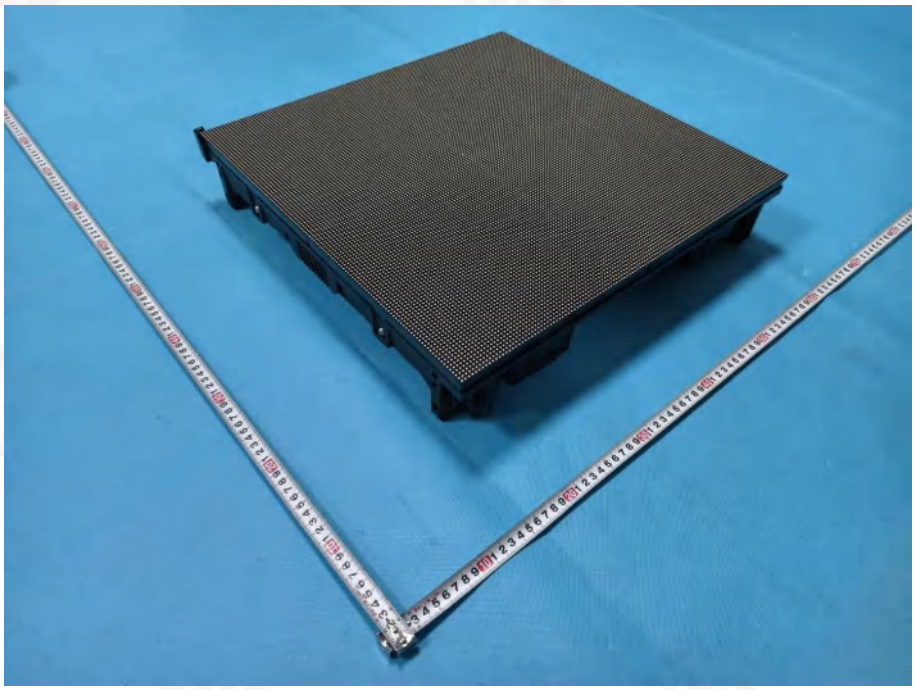
| Radiation Emission Test Data | | | |
|---|---|---|---|
| Temperature: | 26.1℃ | Relative Humidity: | 52% |
| Pressure: | 1014hPa | Phase : | Vertical |
| Test Voltage : | AC 100V/60Hz | Test Mode: | Working mode |



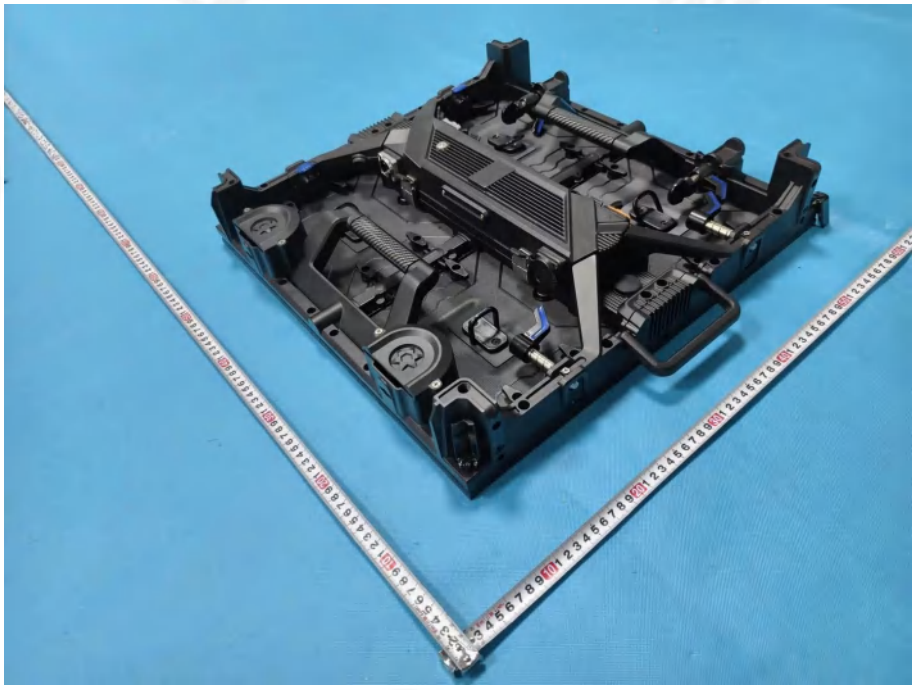

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dBS/m) | Level (dBuA/m) | Limit (dBuA/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 35.1276 | 49.31 | -9.57 | 39.74 | 50.00 | -10.26 | QP | | | P | |
| 2 | 37.9450 | 51.31 | -9.27 | 42.04 | 50.00 | -7.96 | QP | | | P | |
| 3 | 43.5056 | 45.35 | -8.83 | 36.52 | 50.00 | -13.48 | QP | | | P | |
| 4 | 46.8301 | 45.78 | -8.62 | 37.16 | 50.00 | -12.84 | QP | | | P | |
| 5 * | 93.7681 | 56.89 | -10.89 | 46.00 | 50.00 | -4.00 | QP | | | P | |
| 6 | 219.0750 | 48.50 | -9.28 | 39.22 | 50.00 | -10.78 | QP | | | P | |

# 5. EUT PHOTOGRAPHS

**EUT Photo 1**

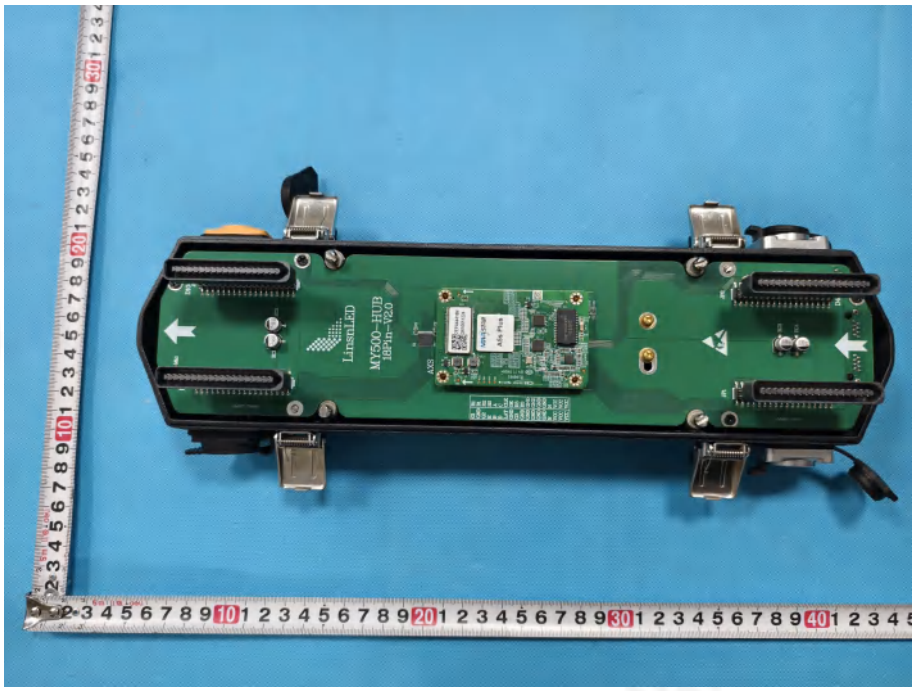


**EUT Photo 2**

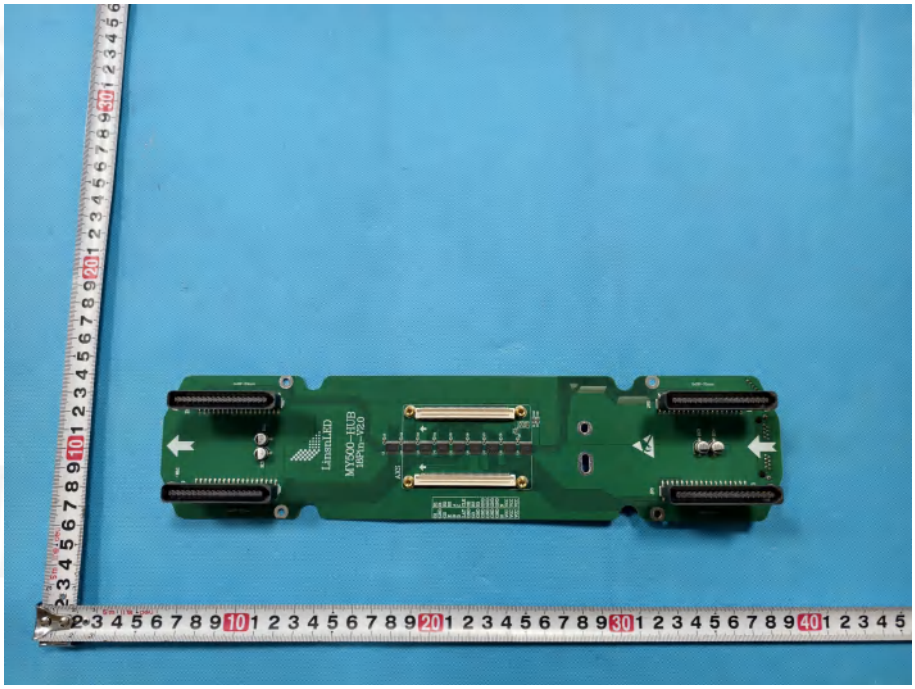


**EUT Photo 3**

**EUT Photo 4**

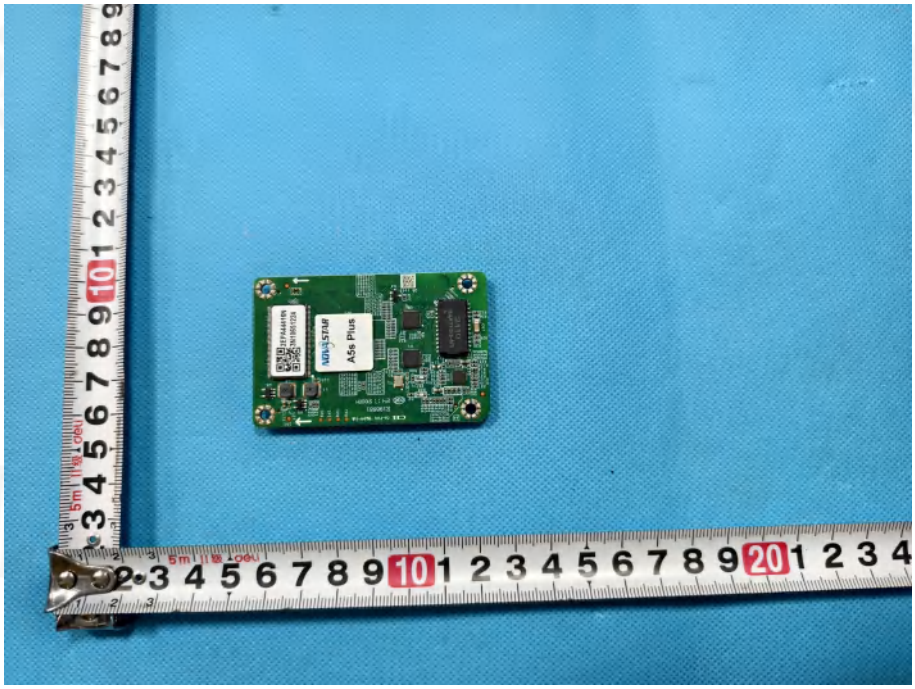


**EUT Photo 5**

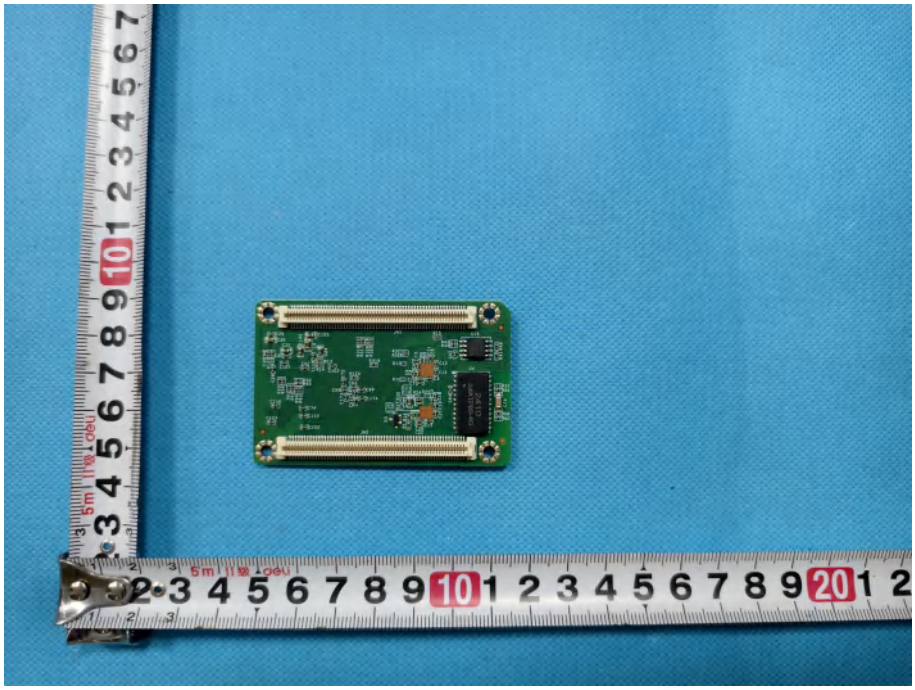


**EUT Photo 6**

**EUT Photo 7**

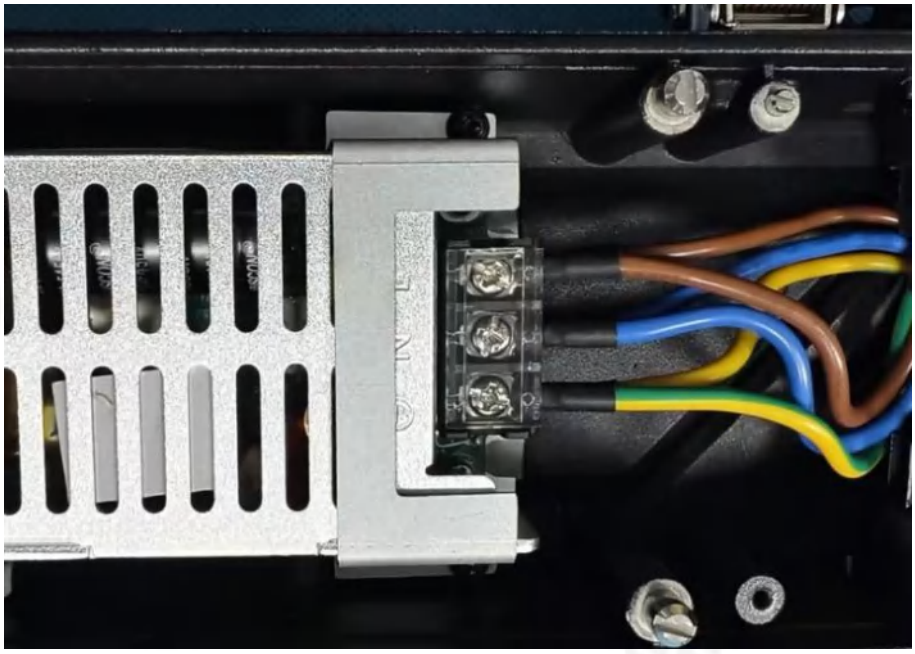


**EUT Photo 8**



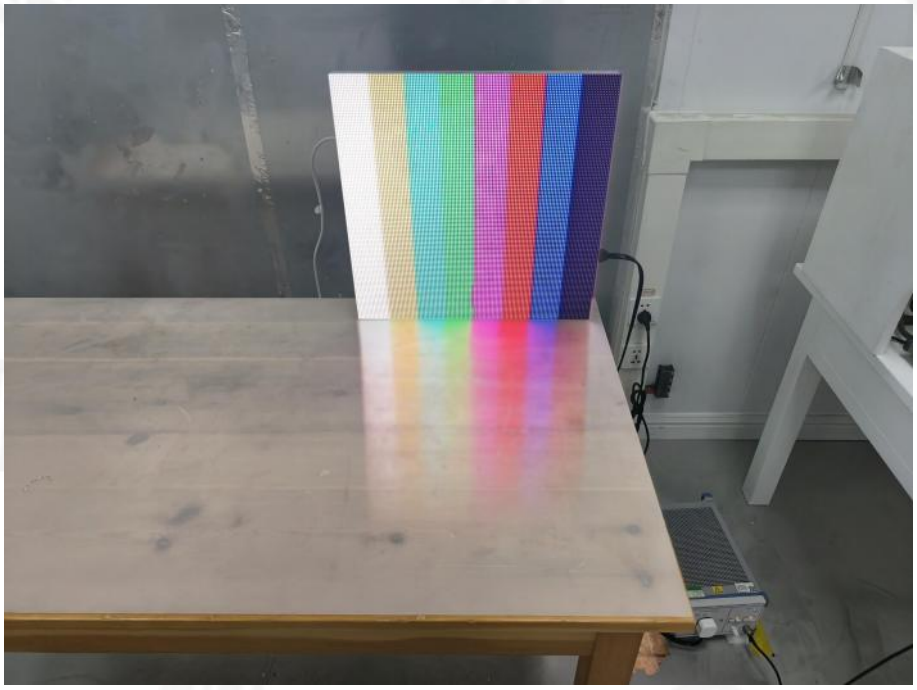
**EUT Photo 9**

**EUT Photo 10**

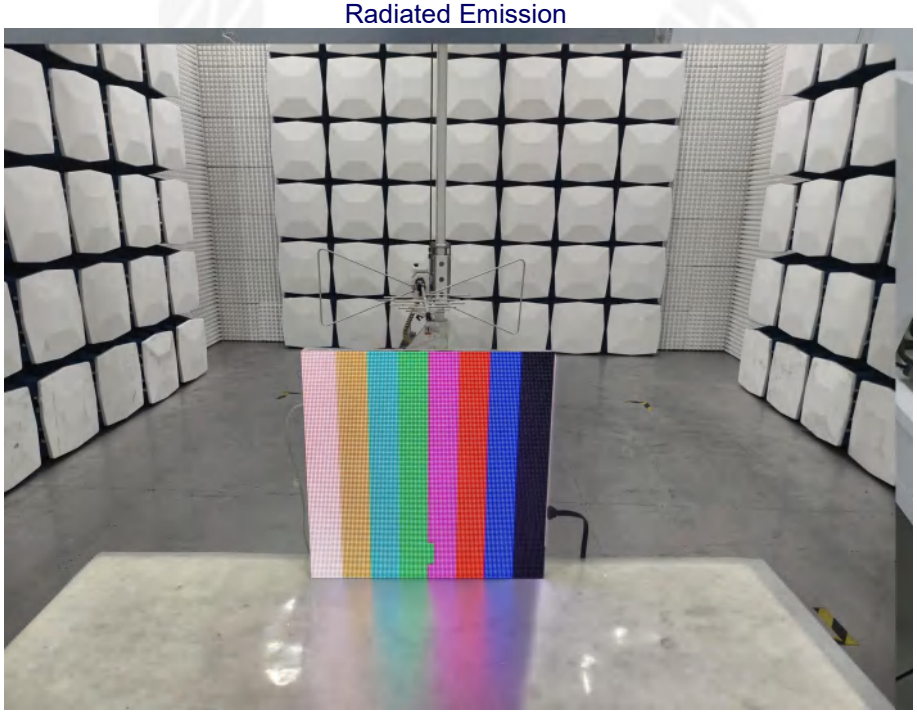


# 6. TEST SETUP PHOTOS

Conducted Emission



Radiated Emission



**※※※※※ END OF REPORT ※※※※※**