



# RF Exposure Evaluation Report

**Application No.:** DNT2507100200R7354-08931  
**Applicant:** Shenzhen Mudu Technology Co., Ltd  
**Address of Applicant:** 4th Floor, Factory Building, No. 82 Zhulongtian Road, Shuitian Community,  
Shiyan Street, Bao'an District, Shenzhen  
**EUT Description:** Smart Glasses  
**Model No.:** E18  
**FCC ID:** 2BFH6-E18  
**Power supply:** Input DC 5V; DC 3.7V from rechargeable lithium-ion battery  
**Trade Mark:** MUEDO  
**Standards:** 47 CFR Part 2.1093  
FCC KDB 447498 D04 v01  
**Date of Receipt:** 2025/7/10  
**Date of Test:** 2025/7/11 to 2025/7/30  
**Date of Issue:** 2025/8/15  
**Test Result:** **PASS**

**Prepared By:** Wayne Lin (Testing Engineer)

**Reviewed By:** Pengfei Chen (Project Engineer)

**Approved By:** Heise Chen (Manager)



Note: If there is any objection to the results in this report, please submit a written inquiry to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp, and is issued by the company in accordance with the requirements of the "Conditions of Issuance of Test Reports" printed in the attached page. Unless otherwise stated, the results presented in this report only apply to the samples tested this time. Partial reproduction of this report is not allowed unless approved by the company in writing.

**Dongguan DN Testing Co., Ltd.**

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Report Revise Record

| Report Version | Revise Time | Issued Date     | Valid Version | Notes           |
|----------------|-------------|-----------------|---------------|-----------------|
| V2.0           | /           | August 15, 2025 | Valid         | Original Report |



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# 1 General Information

## 1.1 Test Location

|                |                                                                                                             |
|----------------|-------------------------------------------------------------------------------------------------------------|
| Company:       | Dongguan DN Testing Co., Ltd                                                                                |
| Address:       | No. 1, West Fourth Street, South Xinfu Road, Wusha Liwu, Chang 'an Town, Dongguan City, Guangdong P.R.China |
| Test engineer: | Wayne Lin                                                                                                   |

## 1.2 General Description of EUT

|                          |                                                                                                                              |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer:            | Shenzhen Mudu Technology Co., Ltd                                                                                            |
| Address of Manufacturer: | 4th Floor, Factory Building, No. 82 Zhulongtian Road, Shuitian Community, Shiyan Street, Bao'an District, Shenzhen           |
| EUT Description:         | Smart Glasses                                                                                                                |
| Model No.:               | E18                                                                                                                          |
| Additional Model(s):     | /                                                                                                                            |
| Power Supply:            | Input DC 5V; DC 3.7V from rechargeable lithium-ion battery                                                                   |
| Trade Mark:              | MUEDO                                                                                                                        |
| Hardware Version:        | V1.0                                                                                                                         |
| Software Version:        | V1.0                                                                                                                         |
| Serial number:           | PR2507100200R7354                                                                                                            |
| Chip Type:               | BP2B313-B3D4                                                                                                                 |
| Sample Type:             | <input checked="" type="checkbox"/> Portable Device, <input type="checkbox"/> Module, <input type="checkbox"/> Mobile Device |
| Antenna Type:            | <input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated                                            |
| Antenna Ports:           | <input checked="" type="checkbox"/> Ant 1, <input type="checkbox"/> Ant 2, <input type="checkbox"/> Ant 3                    |
| Antenna Gain:            | <input checked="" type="checkbox"/> Provided by applicant<br>1.66dBi                                                         |

**Note:**

\*Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, DNT is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.



### 1.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

**Lab A:**

• **FCC, USA**

Designation Number: CN1348

• **A2LA (Certificate No. 7050.01)**

DONGGUAN DN TESTING CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 7050.01.

• **Innovation, Science and Economic Development Canada**

DONGGUAN DN TESTING CO., LTD. EMC Laboratory has been recognized by ISED as an accredited testing laboratory. CAB identifier is CN0149.

IC#: 30755.

### 1.4 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item                            | Measurement Uncertainty                                 |
|-----|---------------------------------|---------------------------------------------------------|
| 1   | 20dB Emission Bandwidth         | $\pm 0.0196\%$                                          |
| 2   | Carrier Frequency Separation    | $\pm 1.9\%$                                             |
| 3   | Number of Hopping Channel       | $\pm 1.9\%$                                             |
| 4   | Time of Occupancy               | $\pm 0.028\%$                                           |
| 5   | Max Peak Conducted Output Power | $\pm 0.743$ dB                                          |
| 6   | Band-edge Spurious Emission     | $\pm 1.328$ dB                                          |
| 7   | Conducted RF Spurious Emission  | 9KHz-1GHz: $\pm 0.746$ dB<br>1GHz-26GHz: $\pm 1.328$ dB |

| No. | Item                | Measurement Uncertainty        |
|-----|---------------------|--------------------------------|
| 1   | Conduction Emission | $\pm 3.0$ dB (150kHz to 30MHz) |
| 2   | Radiated Emission   | $\pm 4.8$ dB (Below 1GHz)      |
|     |                     | $\pm 4.8$ dB (1GHz to 6GHz)    |
|     |                     | $\pm 4.5$ dB (6GHz to 18GHz)   |
|     |                     | $\pm 5.02$ dB (Above 18GHz)    |



## 2 RF Exposure Evaluation

### 2.1 RF Exposure Compliance Requirement

#### 2.1.1 Limits

Human exposure to RF emissions from portable devices (47 CFR §2.1093), as defined by the FCC, must be evaluated with respect to the FCC-adopted limits for SAR. Evaluation of mobile devices, as defined by the FCC, may also be performed with respect to SAR limits, but in such cases it is usually simpler and more cost-effective to evaluate compliance with respect to field strength or power density limits. For certain devices that are designed to be used in both mobile and portable configurations similar to those described in 47 CFR §2.1091(d)(4), such as certain desktop phones and wireless modem modules, compliance for mobile configurations is also satisfied when the same device is evaluated for SAR compliance in portable configurations.

Refer to 47 CFR §2.1093:

A portable device is defined as a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that the RF source's radiating structure(s) is/are within 20 centimeters of the body of the user.

Evaluation of compliance with the exposure limits in § 1.1310 of this chapter, and preparation of an EA if the limits are exceeded, is necessary for portable devices having single RF sources with more than an available maximum time-averaged power of 1 mW, more than the ERP listed in Table 1 to § 1.1307(b)(3)(i)(C), or more than the  $P_{th}$  in the following formula, whichever is greater. The following formula shall only be used in conjunction with portable devices not exempt by § 1.1307(b)(3)(i)(C) at distances from 0.5 centimeters to 20 centimeters and frequencies from 0.3 GHz to 6 GHz.



$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

where

$$x = -\log_{10} \left( \frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and  $f$  is in GHz,  $d$  is the separation distance (cm), and  $ERP_{20 \text{ cm}}$  is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

| Frequency (MHz) | Distance (mm) |    |    |     |     |     |     |     |     |     |
|-----------------|---------------|----|----|-----|-----|-----|-----|-----|-----|-----|
|                 | 5             | 10 | 15 | 20  | 25  | 30  | 35  | 40  | 45  | 50  |
| 300             | 39            | 65 | 88 | 110 | 129 | 148 | 166 | 184 | 201 | 217 |
| 450             | 22            | 44 | 67 | 89  | 112 | 135 | 158 | 180 | 203 | 226 |
| 835             | 9             | 25 | 44 | 66  | 90  | 116 | 145 | 175 | 207 | 240 |
| 1900            | 3             | 12 | 26 | 44  | 66  | 92  | 122 | 157 | 195 | 236 |
| 2450            | 3             | 10 | 22 | 38  | 59  | 83  | 111 | 143 | 179 | 219 |
| 3600            | 2             | 8  | 18 | 32  | 49  | 71  | 96  | 125 | 158 | 195 |
| 5800            | 1             | 6  | 14 | 25  | 40  | 58  | 80  | 106 | 136 | 169 |

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 300 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion.



## 2.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually

## 2.1.3 EUT RF Exposure Evaluation

### Test Result(Left glasses leg)

| Mode      | Fre (MHz) | Peak Conducted output Power (dBm) | Target power (dBm) | Antenna Gain (dBi) | Max. E.R.P (dBm) | Max. Target power (mW) | SAR Test Exemption Limit (mW) | Distance (mm) |
|-----------|-----------|-----------------------------------|--------------------|--------------------|------------------|------------------------|-------------------------------|---------------|
| GFSK      | 2402      | 0.37                              | 0±1                | 1.66               | 0.51             | 1.125                  | 3                             | 5             |
|           | 2441      | -0.46                             | 0±1                | 1.66               | 0.51             | 1.125                  | 3                             | 5             |
|           | 2480      | -1.66                             | -1±1               | 1.66               | -0.49            | 0.893                  | 3                             | 5             |
| π/4-DQPSK | 2402      | 0.88                              | 0±1                | 1.66               | 0.51             | 1.125                  | 3                             | 5             |
|           | 2441      | 0.07                              | 0±1                | 1.66               | 0.51             | 1.125                  | 3                             | 5             |
|           | 2480      | -1.18                             | -1±1               | 1.66               | -0.49            | 0.893                  | 3                             | 5             |

### Test Result(Right glasses leg)

| Mode      | Fre (MHz) | Peak Conducted output Power (dBm) | Target power (dBm) | Antenna Gain (dBi) | Max. E.R.P (dBm) | Max. Target power (mW) | SAR Test Exemption Limit (mW) | Distance (mm) |
|-----------|-----------|-----------------------------------|--------------------|--------------------|------------------|------------------------|-------------------------------|---------------|
| GFSK      | 2402      | 0.48                              | 0±1                | 1.66               | 0.51             | 1.125                  | 3                             | 5             |
|           | 2441      | -0.62                             | 0±1                | 1.66               | 0.51             | 1.125                  | 3                             | 5             |
|           | 2480      | -1.75                             | -1±1               | 1.66               | -0.49            | 0.893                  | 3                             | 5             |
| π/4-DQPSK | 2402      | 1.22                              | 1±1                | 1.66               | 1.51             | 1.416                  | 3                             | 5             |
|           | 2441      | 0.25                              | 0±1                | 1.66               | 0.51             | 1.125                  | 3                             | 5             |
|           | 2480      | -0.92                             | 0±1                | 1.66               | 0.51             | 1.125                  | 3                             | 5             |



Left + Right

| Max Target power<br>(mW)(Left) | Max. Target power<br>(mW)(Right) | Total Radio | Limit | Result   |
|--------------------------------|----------------------------------|-------------|-------|----------|
| 1.25                           | 1.416                            | 0.89        | 1     | Complies |

Note:

1. E.R.P=Conducted output Power+Antenna Gain -2.15.
2. SAR Test Exclusion Thresholds is 3mW for separation distance 5mm. Therefore, SAR test is not required.

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The End Report