



## SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD

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# RF Exposure Evaluation Report

**Report No.:** CQASZ20260300565E-03  
**Applicant:** DREO PTE. LTD.  
**Address of Applicant:** 112 ROBINSON ROAD, #03-01, ROBINSON 112, SINGAPORE 068902  
**Equipment Under Test (EUT):**  
**EUT Name:** Humidifier  
**Model No.:** DR-HHM006S, DWHM06S, DR-HHM008S, DWHM08S, DR-HHM019S, DWHM19S  
**Test Model No.:** DR-HHM008S  
**Brand Name:** DREO, DREO HOME  
**FCC ID:** 2A3SYHHM006  
**Standards:** 47 CFR Part 1.1307  
47 CFR Part 1.1310  
447498 D04 Interim General RF Exposure Guidance v01  
**Date of Receipt:** 2024-07-29  
**Date of Test:** 2024-07-29 to 2024-08-07  
**Date of Issue:** 2026-5-13  
**Test Result:** **PASS\***

\*In the configuration tested, the EUT complied with the standards specified above

**Tested By:** Lewis Zhou  
( Lewis Zhou )

**Reviewed By:** Timo Lei  
( Timo Lei )

**Approved By:** Jack Ai  
( Jack Ai )



## 1 Version

### Revision History Of Report

| Report No.           | Version | Description    | Issue Date |
|----------------------|---------|----------------|------------|
| CQASZ20240701520E-03 | Rev.01  | Initial report | 2024-09-02 |
| CQASZ20260300565E-03 | Rev.02  | Update report  | 2026-5-13  |

Note:

This test report (Ref. No.: CQASZ20260300565E-03)

All test data comes from source test reports (Ref. No.: CQASZ20240701520E-03).

Add the model number based on the original report, Add a trademark, Add factory information, Due to the changes in the product's casing and power board, the tests for conducted emission and radiated emission have been added.

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### 3 General Information

#### 3.1 Client Information

|                          |                                                                                                                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant:               | DREO PTE. LTD.                                                                                                                                                                                    |
| Address of Applicant:    | 112 ROBINSON ROAD, #03-01, ROBINSON 112, SINGAPORE 068902                                                                                                                                         |
| Manufacturer:            | DREO PTE. LTD.                                                                                                                                                                                    |
| Address of Manufacturer: | 112 ROBINSON ROAD, #03-01, ROBINSON 112, SINGAPORE 068902                                                                                                                                         |
| Factory:                 | Huizhou Huimo Technology Co., Ltd                                                                                                                                                                 |
| Address of Factory:      | Office building Tower four, Tower Five, Tower Six of Shuangjie Industrial Co., Ltd., Yinshan Industrial Zone, Beilian Village, Liangjing Town, Huiyang District, HUIZHOU CITY, Guangdong Province |
| Factory 2:               | QUNYOU (CAMBODIA) ELECTRIC APPLIANCE CO.,LTD.                                                                                                                                                     |
| Address of Factory 2:    | Giga SEZ,St.National Road No. 1, Daeum Pou Village.,Kandeing Reay Commune., Svay Teab District., SVAY RIENG PROVINCE, CAMBODIA                                                                    |

#### 3.2 General Description of EUT

|                   |                                                               |
|-------------------|---------------------------------------------------------------|
| Product Name:     | Humidifier                                                    |
| Model No.:        | DR-HHM006S, DWHM06S, DR-HHM008S, DWHM08S, DR-HHM019S, DWHM19S |
| Test Model No.:   | DR-HHM008S                                                    |
| Trade Mark:       | DREO, DREO HOME                                               |
| Software Version: | V1.0                                                          |
| Hardware Version: | PAI-053 V1.1 20220119                                         |
| EUT Power Supply: | Power supply AC120V                                           |

#### 3.3 General Description of BLE

|                      |                                                                              |
|----------------------|------------------------------------------------------------------------------|
| Operation Frequency: | 2402MHz~2480MHz                                                              |
| Bluetooth Version:   | Bluetooth Spec 5.2                                                           |
| Modulation Type:     | GFSK                                                                         |
| Number of Channel:   | 40                                                                           |
| Transfer Rate:       | 1Mbps                                                                        |
| Sample Type:         | <input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable |
| Antenna Type:        | FPC antenna                                                                  |
| Antenna Gain:        | -1.61dBi                                                                     |

### 3.4 General Description of 2.4G WIFI Classic

|                      |                                                                                                                                                                                                                            |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operation Frequency: | 2412MHz~2462MHz                                                                                                                                                                                                            |
| Type of Modulation:  | IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK)<br>IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK)<br>IEEE for 802.11n(HT20) : OFDM (64QAM, 16QAM, QPSK, BPSK)                                                                   |
| Number of Channel:   | IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels                                                                                                                                                                             |
| Channel Separation:  | 5MHz                                                                                                                                                                                                                       |
| Transfer Rate:       | IEEE for 802.11b:<br>1Mbps/2Mbps/5.5Mbps/11Mbps<br>IEEE for 802.11g :<br>6Mbps/9Mbps/12Mbps/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps<br>IEEE for 802.11n(HT20) :<br>6.5Mbps/13Mbps/19.5Mbps/26Mbps/39Mbps/52Mbps/58.5Mbps/65Mbps |
| Sample Type:         | <input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable                                                                                                                                               |
| Antenna Type:        | FPC antenna                                                                                                                                                                                                                |
| Antenna Gain:        | -1.61dBi                                                                                                                                                                                                                   |

Note:

The above parameters will directly affect the test results. The information is provided by the applicant.

## 4 MPE Evaluation

### 4.1 RF Exposure Compliance Requirement

#### 4.1.1 Limits

The table applies to any RF source (i.e., single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least  $\lambda/2\pi$ . The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator. For mobile devices that are not exempt per Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP<sub>20cm</sub> in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave Dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

#### 4.1.2 Test Procedure

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

#### 4.1.3 EUT RF Exposure

##### 1) For BLE

##### Measurement Data

| GFSK mode        |            |           |                         |                       |      |
|------------------|------------|-----------|-------------------------|-----------------------|------|
| Test channel     | EIRP (dBm) | ERP (dBm) | Tune up tolerance (dBm) | Maximum tune-up Power |      |
|                  |            |           |                         | (dBm)                 | (mW) |
| Lowest(2402MHz)  | 1.69       | -0.46     | -0.5±1                  | 0.5                   | 1.12 |
| Middle(2440MHz)  | -0.04      | -2.19     | -2.0±1                  | -1                    | 0.79 |
| Highest(2480MHz) | 1.61       | -0.54     | -0.5±1                  | 0.5                   | 1.12 |

EIRP=Conducted Peak Output Power+Gain

ERP=EIRP-2.15dB

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20260300565E-01 for EUT test Max Conducted Peak Output Power value.

2) EUT's module is more than 20cm away from the human body.

2) For 2.4G WIFI Classic

Measurement Data

| 11B mode         |            |           |                         |                       |      |
|------------------|------------|-----------|-------------------------|-----------------------|------|
| Test channel     | EIRP (dBm) | ERP (dBm) | Tune up tolerance (dBm) | Maximum tune-up Power |      |
|                  |            |           |                         | (dBm)                 | (mW) |
| Lowest(2412MHz)  | 8.44       | 6.29      | 6.5±1                   | 7.5                   | 5.62 |
| Middle(2437MHz)  | 8.34       | 6.19      | 6.0±1                   | 7.0                   | 5.01 |
| Highest(2462MHz) | 7.95       | 5.80      | 6.0±1                   | 7.0                   | 5.01 |
| 11G mode         |            |           |                         |                       |      |
| Test channel     | EIRP (dBm) | ERP (dBm) | Tune up tolerance (dBm) | Maximum tune-up Power |      |
|                  |            |           |                         | (dBm)                 | (mW) |
| Lowest(2412MHz)  | 9.49       | 7.34      | 7.5±1                   | 8.5                   | 7.08 |
| Middle(2437MHz)  | 9.77       | 7.62      | 8.0±1                   | 9.0                   | 7.94 |
| Highest(2462MHz) | 8.77       | 6.62      | 7.0±1                   | 8.0                   | 6.31 |
| 11N20 mode       |            |           |                         |                       |      |
| Test channel     | EIRP (dBm) | ERP (dBm) | Tune up tolerance (dBm) | Maximum tune-up Power |      |
|                  |            |           |                         | (dBm)                 | (mW) |
| Lowest(2412MHz)  | 9.79       | 7.64      | 8.0±1                   | 9.0                   | 7.94 |
| Middle(2437MHz)  | 8.95       | 6.8       | 7.0±1                   | 8.0                   | 6.31 |
| Highest(2462MHz) | 9.05       | 6.9       | 7.0±1                   | 8.0                   | 6.31 |

EIRP=Conducted Peak Output Power+Gain

ERP=EIRP-2.15dB

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ2024010E-02 for EUT test Max Conducted AV Output Power value.

2) EUT's module is more than 20cm away from the human body.

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