

## RF EXPOSURE REPORT

|                             |   |                                                           |
|-----------------------------|---|-----------------------------------------------------------|
| <b>Applicant</b>            | : | HANSHOW PTE. LTD.                                         |
| <b>Address</b>              | : | 138 ROBINSON ROAD #02-33 OXLEY TOWER<br>SINGAPORE(068906) |
| <b>Equipment under Test</b> | : | electronic shelf label                                    |
| <b>Model No.</b>            | : | Nebular Ultra-260WQ-N D3                                  |
| <b>Trade Mark</b>           | : | N/A                                                       |
| <b>FCC ID</b>               | : | 2BPF3-NU4-260W                                            |
| <b>Manufacturer</b>         | : | HANSHOW PTE. LTD.                                         |
| <b>Address</b>              | : | 138 ROBINSON ROAD #02-33 OXLEY TOWER<br>SINGAPORE(068906) |
| <b>Report No.</b>           | : | LS-R26082501-16F04                                        |
| <b>Issue Date</b>           | : | Oct. 10, 2026                                             |

LabSure Testing Services (Tianjin) Co., Ltd.



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## TEST REPORT DECLARE

|                             |   |                                                           |
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**Standard Used:** Code of Federal Regulations 47 Subchapter A, Part 1, Subpart 1 §1.13107.

**We Declare:**

The equipment described above is tested and assessed by LabSure Testing Services (Tianjin) Co., Ltd. and in the configuration assessed the equipment complied with the standards specified above. The tested and assessed results are contained in this test report and LabSure Testing Services (Tianjin) Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these assessments.

**After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above standards.**

|                         |                    |                      |                               |
|-------------------------|--------------------|----------------------|-------------------------------|
| <b>Report No:</b>       | LS-R26082501-16F04 |                      |                               |
| <b>Date of Receipt:</b> | Sep. 07, 2026      | <b>Date of Test:</b> | Sep. 07, 2026 ~ Sep. 30, 2026 |

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**Authorized by:**

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**Sunny Zhang/Engineer**

**Ethan Bao/Engineer**

**Aaron Zhang/Manager**

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of LabSure Testing Services (Tianjin) Co., Ltd.

## Revision History

| Rev. | Revisions     | Issue Date    | Revised By |
|------|---------------|---------------|------------|
| ---  | Initial issue | Oct. 10, 2026 |            |
|      |               |               |            |

## 1. General information

### 1.1. Description of Equipment

|                          |                                                                     |
|--------------------------|---------------------------------------------------------------------|
| EUT* Name                | : electronic shelf label                                            |
| Model Number             | : Nebular Ultra-260WQ-N D3                                          |
| EUT function description | : Please reference user manual of this device                       |
| Power Supply             | : DC 3V by battery                                                  |
| Radio Specification      | : One 2.4GHz SRD, One Bluetooth (LE), One 13.56MHz NFC              |
| Operation Frequency      | : SRD: 2402MHz-2480MHz<br>: BLE: 2402MHz-2480MHz<br>: NFC: 13.56MHz |
| Modulation               | : 2.4GHz SRD: GFSK<br>: Bluetooth (LE): GFSK<br>: NFC: ASK          |
| Data Rate                | : 2.4GHz SRD: 500k bps<br>: BLE: 1Mbps&2Mbps<br>: NFC: 106kbps      |
| Antenna Type             | : PCB antenna, maximum PK gain: -0.7 dBi                            |
| Exposure category        | : General population/uncontrolled environment                       |
| Device Type              | : Portable Device                                                   |

## 1.2. Assess laboratory

LabSure Testing Services (Tianjin) Co., Ltd.

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**A2LA** (American Association for Laboratory Accreditation) Number: 7735.01

**CNAS** (China National Accreditation Service for Conformity Assessment) CODE: L13402

**FCC** Designation Number: CN1464; FCC Test Firm Registration Number: 991964

**ISED** (Innovation, Science and Economic Development Canada) Company Number: 27768

Conformity Assessment Body Identifier: CN0125

**VCCI** Facility Registration Number: C-20089, T-20093, R-20125, G-20122

## 2. RF Exposure Evaluation

### 2.1. Requirement

According 1.1307(b)(3)(i)

For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

(B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold  $P_{th}$  (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive).  $P_{th}$  is given by:

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

Where

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

and

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

$d$  = the separation distance (cm);

## 2.2. Estimation result

According ANSI C63.10-2020, Convert the electric field strength to an equivalent EIRP using the following relationship:

$$\text{EIRP} = E + 20\log(d) - 104.8$$

where

E is the electric field strength in dB $\mu$ V/m

EIRP is the equivalent isotropically radiated power in dBm

d is the specified measurement distance in m

$$\text{ERP} = \text{EIRP} - 2.15 \text{ dB}$$

For Bluetooth (LE):

The Max Tune up PK EIRP = 2dBm- 0.7dBi=1.3dBm

$$\text{ERP} = \text{EIRP} - 2.15\text{dB} = 1.3 - 2.15 = -0.85 \text{ dBm} = 0.82\text{mW} < \text{ERP}_{0.5\text{cm}} 2.79\text{mW}$$

For 2.4G SRD

| Mode      | Frequency (MHz) | Maximum PK Field Strength (dB $\mu$ V/m) | EIRP (dBm) |
|-----------|-----------------|------------------------------------------|------------|
| GFSK Ant1 | 2402            | 92.58                                    | -2.65      |
| GFSK Ant1 | 2441            | 92.19                                    | -3.04      |
| GFSK Ant1 | 2480            | 93.91                                    | -1.32      |

Max turn-up PK EIRP is 0dBm

$$\text{ERP} = \text{EIRP} - 2.15\text{dB} = 0 - 2.15 = -2.15 \text{ dBm} = 0.61\text{mW} < \text{ERP}_{0.5\text{cm}} 2.79\text{mW}$$

For NFC

| Mode    | Frequency (MHz) | Maximum PK Field Strength (dB $\mu$ V/m) | EIRP (dBm) |
|---------|-----------------|------------------------------------------|------------|
| Tx mode | 13.56MHz        | 54.71                                    | -40.52     |

Max turn-up PK EIRP is -40dBm=0.0001mW<1mW

$$\text{BLE+NFC+2.4G} = 0.82/2.79 + 0.61/2.79 + 0.0001 = 0.51264 < 1$$

Note: The separation distance is 0.5cm

Conclusion: The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure of portable device.

**END OF REPORT**