

# RF EXPOSURE Test Report

**Product:** PowerHold

**Trade Mark:** OFFROAM

**Model Number:** 990-1077

**FCC ID:** 2BOR59901077

**Prepared for**

Cypress Overland LLC

1577 C St Ste 105 PMB 829905 Anchorage, Alaska 99501-5127 USA

**Prepared by**

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## TEST RESULT CERTIFICATION

**Applicant's Name** ..... : Cypress Overland LLC  
**Address** ..... : 1577 C St Ste 105 PMB 829905 Anchorage, Alaska 99501-5127  
USA  
**Manufacturer's Name** ..... : NuVolta Technologies (Hefei) Co., Ltd.  
Room 605/606, No.2800, Building F-1, Innovation Industrial  
**Address** ..... : Park Phase 2, Innovation Avenue, High-tech Zone, Hefei, Anhui,  
PRC.

### Product description

**Product name** ..... : PowerHold  
**Model Number** ..... : 990-1077

**Standards** ..... : FCC CFR 47 PART 1 , 1.1310

**Test procedure** ..... : KDB 680106 D01 Wireless Power Transfer v04

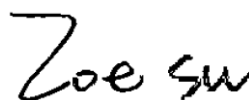
This device described above has been tested by Shenzhen HongBiao Certification& Testing Co., Ltd and the test results show that the equipment under test (EUT) is in compliance with the EMC requirements. And it is applicable only to the tested sample identified in the report.

**Date of Test** .....

**Date (s) of performance of tests** ..... : Aug. 07, 2025~Aug. 25, 2025

**Test Result**..... : **Pass**

**Testing Engineer** :



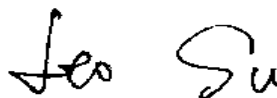
( Z o e S u )

**Technical Manager** :



( G a r y L u )

**Authorized Signatory** :



( L e o S u )

[illegible]

## 1 General Description

### 1.1 Description of EUT

|                            |                                                        |
|----------------------------|--------------------------------------------------------|
| Product name:              | PowerHold                                              |
| Model name:                | 990-1077                                               |
| Series Model:              | N/A                                                    |
| Different of series model: | N/A                                                    |
| Operation frequency:       | 128kHz, 360kHz                                         |
| Operational mode:          | Wireless charging                                      |
| Modulation type:           | ASK                                                    |
| Antenna type:              | Coil Antenna                                           |
| Hardware version:          | V1.1                                                   |
| Software version:          | V1.0                                                   |
| Battery:                   | N/A                                                    |
| Power supply:              | Input: 5V=3A, 9V=2.22A<br>Wireless Output: 5W/7.5W/15W |
| Adapter information:       | N/A                                                    |

### 1.2 Test Mode

| Pretest Test Mode | Description of Mode                 |
|-------------------|-------------------------------------|
| 1                 | AC/DC adapter+Wireless Output: 5W   |
| 2                 | AC/DC adapter+Wireless Output: 7.5W |
| 3                 | AC/DC adapter+Wireless Output: 15W  |

### 1.3 Test Setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

### 1.4 Ancillary Equipment

| Equipment    | Model     | S/N            | Manufacturer         |
|--------------|-----------|----------------|----------------------|
| iPhone16 Pro | MYM93LL/A | HMV3W3W1<br>9W | Apple Inc.           |
| Adapter      | CD289     | 35810          | Ugreen Group Limited |
|              |           |                |                      |

## 2 Test Facilities and Accreditations

### 2.1 Test Laboratory

|                       |                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Site             | Shenzhen HongBiao Certification& Testing Co., Ltd                                                                                                 |
| Test Site Location    | Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China |
| Telephone:            | (86-755) 2998 9321                                                                                                                                |
| Fax:                  | (86-755) 2998 5110                                                                                                                                |
| FCC Registration No.: | CN1341                                                                                                                                            |
| A2LA Certificate No.: | 6765.01                                                                                                                                           |

### 2.2 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

|                    |              |
|--------------------|--------------|
| Temperature:       | 15°C~35°C    |
| Relative Humidity: | 20%~75%      |
| Air Pressure:      | 98kPa~101kPa |

### 2.3 Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

The data and results quoted in this document are true and accurate values, and uncertainties are not involved in the calculations.

In addition, components and mass production processes that are similar to testing equipment may introduce additional deviations, and the manufacturer is solely responsible for the continued compliance of the equipment.

| Measurement Frequency Range | $U$ , (dB)         | Note |
|-----------------------------|--------------------|------|
| RF frequency                | $2 \times 10^{-5}$ |      |
| E-field                     | $\pm 1.06$ dB      |      |
| H-field                     | $\pm 0.7$ dB       |      |
| Temperature                 | $\pm 1$ degree     |      |
| Humidity                    | $\pm 5$ %          |      |

### 2.4 Test Software

| Software name | Manufacturer | Model    | Version  |
|---------------|--------------|----------|----------|
| EHP200-TS     | Narda        | EHP-200A | Rel 1.95 |

### 3 List of Test Equipment

| Item | Equipment No. | Equipment name                       | Manufacturer | Model    | Serial No. | Calibration date | Due date   |
|------|---------------|--------------------------------------|--------------|----------|------------|------------------|------------|
| 1    | HB-E073       | Electric and Magnetic Field Analyzer | Narda        | EHP-200A | 180ZX11013 | 2025-05-10       | 2026-05-09 |

Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

## 4 RF Exposure

### 4.1 Maximum Permissible Exposure

#### 4.1.1. Limit

| Frequency range(MHz)                                    | Electric field strength(V/m) | Magnetic field strength(A/m) | Power density(mW/cm2) | Averaging time(minutes) |
|---------------------------------------------------------|------------------------------|------------------------------|-----------------------|-------------------------|
| (A) Limits for Occupational/Controlled Exposure         |                              |                              |                       |                         |
| 0.3-3.0                                                 | 614                          | 1.63                         | *100                  | 6                       |
| 3.0-30                                                  | 1842/f                       | 4.89/f                       | *900/f <sup>2</sup>   | 6                       |
| 30-300                                                  | 61.4                         | 0.163                        | 1.0 6                 | 6                       |
| 300-1500                                                | /                            | /                            | f/300                 | 6                       |
| 1500-100000                                             | /                            | /                            | 5                     | 6                       |
| (B) Limits for General Population/Uncontrolled Exposure |                              |                              |                       |                         |
| 0.3-1.34                                                | 614                          | 1.63                         | *100                  | 30                      |
| 1.34-30                                                 | 824/f                        | 2.19/f                       | *180/f <sup>2</sup>   | 30                      |
| 30-300                                                  | 27.5                         | 0.073                        | 0.2                   | 30                      |
| 300-1500                                                | /                            | /                            | f/1500                | 30                      |
| 1500-100000                                             | /                            | /                            | 1                     | 30                      |

f = frequency in MHz \* = Plane-wave equivalent power density

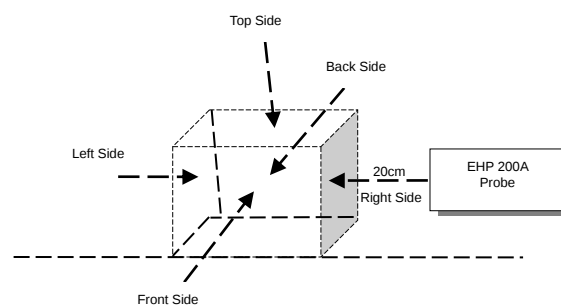
#### 4.1.2. Test Procedures

E and H-field measurements should be made with the center of the probe at a distance of 20 cm surrounding the device and 20 cm above the top surface of the primary/client pair.

These measurements should be repeated for three different client battery levels, 1%, 50%, and 99%.

Record the test results.

#### 4.1.3. Test Setup



#### 4.1.4. Test Result

Test condition: Mode 1 operating mode with client device (1 %, 50%, 99% battery status of client device)

| Maximum permissible Exposure(127.7kHz) |            |                   |              |              |
|----------------------------------------|------------|-------------------|--------------|--------------|
| Battery levels                         | Test sides | Test distance(cm) | E-field(V/m) | H-field(A/m) |
| <1%                                    | Top        | 20                | 2.3159       | 0.0456       |
| <1%                                    | Left       | 20                | 1.2297       | 0.0470       |
| <1%                                    | Right      | 20                | 0.9256       | 0.0454       |
| <1%                                    | Front      | 20                | 0.9293       | 0.0435       |
| <1%                                    | Back       | 20                | 0.9283       | 0.0472       |
| Limit                                  |            |                   | 614          | 1.63         |
| Margin Limit (%)                       |            |                   | 0.38%        | 2.90%        |

| Maximum permissible Exposure(127.7kHz) |            |                   |              |              |
|----------------------------------------|------------|-------------------|--------------|--------------|
| Battery levels                         | Test sides | Test distance(cm) | E-field(V/m) | H-field(A/m) |
| <50%                                   | Top        | 20                | 2.3150       | 0.0449       |
| <50%                                   | Left       | 20                | 1.2291       | 0.0462       |
| <50%                                   | Right      | 20                | 0.9248       | 0.0446       |
| <50%                                   | Front      | 20                | 0.9287       | 0.0427       |
| <50%                                   | Back       | 20                | 0.9277       | 0.0465       |
| Limit                                  |            |                   | 614          | 1.63         |
| Margin Limit (%)                       |            |                   | 0.38%        | 2.85%        |

| Maximum permissible Exposure(127.7kHz) |            |                   |              |              |
|----------------------------------------|------------|-------------------|--------------|--------------|
| Battery levels                         | Test sides | Test distance(cm) | E-field(V/m) | H-field(A/m) |
| <99%                                   | Top        | 20                | 2.3142       | 0.0440       |
| <99%                                   | Left       | 20                | 1.2283       | 0.0454       |
| <99%                                   | Right      | 20                | 0.9240       | 0.0440       |
| <99%                                   | Front      | 20                | 0.9279       | 0.0421       |
| <99%                                   | Back       | 20                | 0.9268       | 0.0459       |
| Limit                                  |            |                   | 614          | 1.63         |
| Margin Limit (%)                       |            |                   | 0.38%        | 2.82%        |

Test condition: Mode 3 operating mode with client device (1 %, 50%, 99% battery status of client device)

| Maximum permissible Exposure(360kHz) |            |                   |              |              |
|--------------------------------------|------------|-------------------|--------------|--------------|
| Battery levels                       | Test sides | Test distance(cm) | E-field(V/m) | H-field(A/m) |
| <1%                                  | Top        | 20                | 3.1597       | 0.0470       |
| <1%                                  | Left       | 20                | 1.8124       | 0.0456       |
| <1%                                  | Right      | 20                | 1.1865       | 0.0454       |
| <1%                                  | Front      | 20                | 1.5620       | 0.0454       |
| <1%                                  | Back       | 20                | 1.1054       | 0.0454       |
| Limit                                |            |                   | 614          | 1.63         |
| Margin Limit (%)                     |            |                   | 0.51%        | 2.88%        |

| Maximum permissible Exposure(360kHz) |            |                   |              |              |
|--------------------------------------|------------|-------------------|--------------|--------------|
| Battery levels                       | Test sides | Test distance(cm) | E-field(V/m) | H-field(A/m) |
| <50%                                 | Top        | 20                | 3.1588       | 0.0462       |
| <50%                                 | Left       | 20                | 1.8115       | 0.0447       |
| <50%                                 | Right      | 20                | 1.1857       | 0.0449       |
| <50%                                 | Front      | 20                | 1.5611       | 0.0443       |
| <50%                                 | Back       | 20                | 1.1046       | 0.0447       |
| Limit                                |            |                   | 614          | 1.63         |
| Margin Limit (%)                     |            |                   | 0.51%        | 2.83%        |

| Maximum permissible Exposure(360kHz) |            |                   |              |              |
|--------------------------------------|------------|-------------------|--------------|--------------|
| Battery levels                       | Test sides | Test distance(cm) | E-field(V/m) | H-field(A/m) |
| <99%                                 | Top        | 20                | 3.1580       | 0.0457       |
| <99%                                 | Left       | 20                | 1.8109       | 0.0438       |
| <99%                                 | Right      | 20                | 1.1848       | 0.0440       |
| <99%                                 | Front      | 20                | 1.5603       | 0.0434       |
| <99%                                 | Back       | 20                | 1.1039       | 0.0441       |
| Limit                                |            |                   | 614          | 1.63         |
| Margin Limit (%)                     |            |                   | 0.51%        | 2.80%        |

## **5 Photographs of the Test Setup**

See the Appendix – Test Setup Photos.

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