

## RF Exposure Evaluation Report

FCC ID : 2AU2L-165253  
Equipment : Aerobit SpiroLite, Aerobit PeakFlow<sup>+</sup>  
Brand Name : Aerobit SpiroLite, Aerobit PeakFlow<sup>+</sup>  
Model Name : 165221,165253  
Applicant/ : Aerobit Labs Pvt Ltd  
Manufacturer : 3rd Floor, Office No 303, Nyati Emporium,  
Baner, Pune 411045, Maharashtra, India  
Standard : 47 CFR FCC Part 2 Subpart J, section 2.1093

The product was received on Oct. 14, 2019, and testing was started from Oct. 23, 2019 and completed on Nov. 07, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in KDB447498 D01 General RF Exposure Guidance v06 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

## Table of Contents

|                                          |          |
|------------------------------------------|----------|
| <b>HISTORY OF THIS TEST REPORT .....</b> | <b>3</b> |
| <b>1. GENERAL DESCRIPTION .....</b>      | <b>4</b> |
| 1.1. EUT General Information .....       | 4        |
| 1.2. Table for Multiple Listing .....    | 4        |
| 1.3. Testing Location Information.....   | 4        |
| <b>2. RF EXPOSURE EVALUATION .....</b>   | <b>6</b> |
| 2.1. Applicable Standard .....           | 6        |
| 2.2. SAR evaluation.....                 | 6        |

### Photographs of EUT V01

## HISTORY OF THIS TEST REPORT

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FA992003   | 01      | Initial issue of report | Dec. 20, 2019 |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |
|            |         |                         |               |

**Reviewed by: Ben Tseng**

**Report Producer: Yunha Liou**

## 1. GENERAL DESCRIPTION

### 1.1. EUT General Information

| RF General Information |                       |                           |                 |
|------------------------|-----------------------|---------------------------|-----------------|
| Evaluation Mode        | Frequency Range (MHz) | Operating Frequency (MHz) | Modulation Type |
| Bluetooth              | 2400-2483.5           | 2402-2480                 | LE: DSSS (GFSK) |

### 1.2. Table for Multiple Listing

The brand/model names in the following table are all refer to the identical product.

| Equipment Name                | Brand Name                    | Model Name | Description                                                                                                    |
|-------------------------------|-------------------------------|------------|----------------------------------------------------------------------------------------------------------------|
| Aerobit SpiroLite             | Aerobit SpiroLite             | 165221     | All the models are identical, the difference model for different brand served and color as marketing strategy. |
| Aerobit PeakFlow <sup>+</sup> | Aerobit PeakFlow <sup>+</sup> | 165253     |                                                                                                                |

| Specifications             | Difference Between Peak Flow <sup>+</sup> and Spirolite.                            |                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|                            | PeakFlow <sup>+</sup>                                                               | SpiroLite                                                                             |
| Model No                   | 165253                                                                              | 165221                                                                                |
| PCB                        | Same                                                                                | Same                                                                                  |
| Bill of Materials          | Same                                                                                | Same                                                                                  |
| Schematics                 | Same                                                                                | Same                                                                                  |
| Circuit Diagram            | Same                                                                                | Same                                                                                  |
| Shape                      | Same                                                                                | Same                                                                                  |
| Color                      | White and green combination                                                         | White and blue combination                                                            |
| Bluetooth technology       | Same (BLE 4.2)                                                                      | Same (BLE 4.2)                                                                        |
| Turbine used               | Same (Aerobit Turbine)                                                              | Same (Aerobit Turbine)                                                                |
| Mobile App                 | Same (Aerobit App)                                                                  | Same (Aerobit App)                                                                    |
| Type of metallic enclosure | No metallic enclosure                                                               | No metallic enclosure                                                                 |
| Battery Voltage condition  | Same (3V DC)                                                                        | Same (3V DC)                                                                          |
| Pictures                   |  |  |
| Type of Output             | Same (Bluetooth frequencies)                                                        | Specify (Bluetooth frequencies)                                                       |
| Usage Condition            | Same (Home and Clinic use)                                                          | Same (Home and clinic use)                                                            |
| Environmental condition    | Same (Ambient conditions)                                                           | Same (Ambient conditions)                                                             |

### 1.3. Testing Location Information

| Testing Location                           |        |                                                                                                                                |
|--------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------|
| <input checked="" type="checkbox"/>        | HWA YA | ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)<br>TEL : 886-3-327-3456      FAX : 886-3-327-0973    |
| Test site Designation No. TW1190 with FCC. |        |                                                                                                                                |
| <input type="checkbox"/>                   | JHUBEI | ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)<br>TEL : 886-3-656-9065      FAX : 886-3-656-9085 |
| Test site Designation No. TW0006 with FCC. |        |                                                                                                                                |

## 2. RF EXPOSURE EVALUATION

### 2.1. Applicable Standard

In accordance with FCC 47 CFR part 2 (2.1093) this device has been defined as a portable device which is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

Portable devices must be evaluated using the specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2003.

### 2.2. SAR evaluation

1. Per FCC KDB 447498 D01 v06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f_{(\text{GHz})}}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR

- ♦  $f_{(\text{GHz})}$  is the RF channel transmit frequency in GHz
- ♦ Power and distance are rounded to the nearest mW and mm before calculation
- ♦ The result is rounded to one decimal place for comparison

| Max. Power<br>(dBm) | Gain<br>(dBi) | Tolerance<br>(dB) | Tune-up Max. Power<br>(dBm) | Max. Power<br>(mW) | Test Distance<br>(mm) | Frequency<br>(GHz) | Exclusion<br>Thresholds |
|---------------------|---------------|-------------------|-----------------------------|--------------------|-----------------------|--------------------|-------------------------|
| 2.62                | 1.1           | 0.5               | 4.22                        | 2.64               | 5                     | 2.402              | 0.82                    |

2. Per FCC KDB 447498 D01 v06 exclusion thresholds is  $0.82 < 7.5$ , RF exposure evaluation is not required.

————THE END————