

## RF EXPOSURE REPORT

Report No.: DDT-B21052007-1E18

|                      |   |                                                                                 |
|----------------------|---|---------------------------------------------------------------------------------|
| Applicant            | : | Sublue Underwater AI Co.,Ltd.                                                   |
| Address              | : | NO1,QUANZHOU ROAD,ZHONGGUANCUN<br>SCIENCE AND TECH.PARK , BINHAI TIANJIN<br>CHN |
| Equipment under Test | : | Paddleboard Power Conversion Kit                                                |
| Model No.            | : | PAE001                                                                          |
| Trade Mark           | : | WhiteShark                                                                      |
| FCC ID               | : | 2ASEE-PAE001                                                                    |
| Manufacturer         | : | Sublue Underwater AI Co.,Ltd.                                                   |
| Address              | : | NO1,QUANZHOU ROAD,ZHONGGUANCUN<br>SCIENCE AND TECH.PARK , BINHAI TIANJIN<br>CHN |

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# REPORT

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## TEST REPORT DECLARE

|                             |   |                                                                           |
|-----------------------------|---|---------------------------------------------------------------------------|
| <b>Applicant</b>            | : | Sublue Underwater AI Co.,Ltd.                                             |
| <b>Address</b>              | : | NO1,QUANZHOU ROAD,ZHONGGUANCUN SCIENCE AND TECH.PARK , BINHAI TIANJIN CHN |
| <b>Equipment under Test</b> | : | Paddleboard Power Conversion Kit                                          |
| <b>Model No.</b>            | : | PAE001                                                                    |
| <b>Trade mark</b>           | : | WhiteShark                                                                |
| <b>Manufacturer</b>         | : | Sublue Underwater AI Co.,Ltd.                                             |
| <b>Address</b>              | : | NO1,QUANZHOU ROAD,ZHONGGUANCUN SCIENCE AND TECH.PARK , BINHAI TIANJIN CHN |

**Standard Used:** KDB447498 D01 General RF Exposure Guidance v06

**We Declare:**

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

**After evaluation, our opinion is that the equipment In Accordance with above standard.**

|                         |                    |                      |                               |
|-------------------------|--------------------|----------------------|-------------------------------|
| <b>Report No:</b>       | DDT-B21052007-1E18 |                      |                               |
| <b>Date of Receipt:</b> | May 20, 2021       | <b>Date of Test:</b> | Dec. 15, 2021 ~ Dec. 15, 2021 |

**Prepared By:**

*Sunny Zhang*

**Sunny Zhang/Engineer**

**Approved By:**

*Aaron Zhang*

**Aaron Zhang/EMC Manager**

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

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

## Revision history

| Rev. | Revisions     | Issue Date    | Revised By |
|------|---------------|---------------|------------|
| ---  | Initial issue | Dec. 15, 2021 |            |
|      |               |               |            |

## 1. General information

### 1.1. Description of Equipment

|                          |                                                                  |
|--------------------------|------------------------------------------------------------------|
| EUT* Name                | : Paddleboard Power Conversion Kit                               |
| Model Number             | : PAE001                                                         |
| EUT function description | : Please reference user manual of this device                    |
| Power supply             | : DC 5V from USB<br>: DC 3.7V by Polymer Li-ion built-in battery |
| Radio Specification      | : Bluetooth V5.0                                                 |
| Operation frequency      | : 2402 MHz-2480 MHz                                              |
| Modulation               | : GFSK                                                           |
| Data rate                | : 1Mbps, 2Mbps                                                   |
| Antenna Type             | : PCB antenna, maximum PK gain: -1.40 dBi                        |
| Sample Number            | : N/A                                                            |

### 1.2. Assess laboratory

Tianjin Dongdian Testing Service Co., Ltd.

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Tel: +86-22-58038033, <http://www.ddttest.com>, Email: [ddt@dgddt.com](mailto:ddt@dgddt.com)

**NVLAP** (National Voluntary Laboratory Accreditation Program) CODE: 500036-0

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

**FCC** Designation Number: CN5004; FCC Test Firm Registration Number: 368676

**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 for FCC

According to 447498 D01 General RF Exposure Guidance 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:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where:}$$

$f(\text{GHz})$  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

**Manufacturing Tolerance**

| GFSK 1 M (Peak) |           |            |            |
|-----------------|-----------|------------|------------|
| Channel         | Channel 0 | Channel 19 | Channel 39 |
| Target (dBm)    | 0         | 0          | 0          |
| Tolerance ±(dB) | 1         | 1          | 1          |

| GFSK 2 M (Peak) |           |            |            |
|-----------------|-----------|------------|------------|
| Channel         | Channel 0 | Channel 19 | Channel 39 |
| Target (dBm)    | 0         | 0          | 0          |
| Tolerance ±(dB) | 1         | 1          | 1          |

**Estimtion Result**

Worse case is as below: [2480MHz, 1.0 dBm, 1.26 mW) output power]

$(1.26/5) \cdot [\sqrt{2.480(\text{GHz})}] = 0.397 < 3.0$  for 1-g SAR

Then SAR evaluation is not required

**END OF REPORT**