



■ Report No.: DDT-R20091718-1E8

■ Issued Date: Dec. 16, 2020

# RF EXPOSURE REPORT

## FOR

<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>	:	Sublue Smart Waterproof Phone Case
<b>Model No.</b>	:	H1
<b>Trade Mark</b>	:	N/A
<b>FCC ID</b>	:	2ASEE-PA2001
<b>Manufacturer</b>	:	Sublue Underwater AI Co.,Ltd.
<b>Address</b>	:	NO1,QUANZHOU ROAD,ZHONGGUANCUN SCIENCE AND TECH.PARK , BINHAI TIANJIN CHN

**Issued By: Dongguan Dongdian Testing Service Co., Ltd.**

**Add:** No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

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# REPORT

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## TEST REPORT DECLARE

<b>Applicant</b>	:	Sublue Underwater AI Co.,Ltd.
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**Standard Used:** KDB447498 D01 General RF Exposure Guidance v06

**We Declare:**

The equipment described above is assessed by Dongguan 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 Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

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

<b>Report No:</b>	DDT-R20091718-1E8		
<b>Date of Receipt:</b>	Sep. 17, 2020	<b>Date of Test:</b>	Sep. 17, 2020 ~ Dec. 16, 2020

**Prepared By:**



Sam Li/Engineer

**Approved By:**



Damon Hu/EMC Manager



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

## Revision history

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Dec. 16, 2020	

## 1. General information

### 1.1. Description of Equipment

EUT* Name	:	Sublue Smart Waterproof Phone Case
Model Number	:	H1
EUT function description	:	Please reference user manual of this device
Power supply	:	DC 5V from USB DC 3.7V by Polymer Li-ion built-in battery
Radio Specification	:	Bluetooth V4.2
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

Dongguan Dongdian Testing Service Co., Ltd.

Add: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

Tel: +86-0769-38826678, <http://www.dgddt.com>, Email: [ddt@dgddt.com](mailto:ddt@dgddt.com)

## 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)	-5	-5	-5
Tolerance $\pm$ (dB)	1	1	1

GFSK 2 M (Peak)			
Channel	Channel 0	Channel 19	Channel 39
Target (dBm)	-4	-4	-4
Tolerance $\pm$ (dB)	1	1	1

**Estimation Result**

Worse case is as below: [2480MHz, -3.0 dBm, 0.50 mW) output power]

$(0.50/5) \cdot [\sqrt{2.480(\text{GHz})}] = 0.157 < 3.0$  for 1-g SAR

Then SAR evaluation is not required

**END OF REPORT**