

# Radio Exposure Evaluation Report

**FCC ID** : 2A2G4-SYN3

**Equipment** : u\_puretone

**Brand Name** : unfilter

**Model Name** : SYN3

**Applicant** : OBO Pro.2 Inc.  
No. 18 Yan-Wu Road, Taoyuan City 330, Taiwan(R.O.C.)

**Manufacturer** : OBO Pro.2 Inc.  
No. 18 Yan-Wu Road, Taoyuan City 330, Taiwan(R.O.C.)

**Standard** : 47 CFR FCC Part 2 Subpart J, section 2.1093

The product was received on Jun. 08, 2021, and testing was started from Jun. 25, 2021 and completed on Jun. 25, 2021. We, SPORTON INTERNATIONAL INC. Hsinhua 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 test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

**SPORTON INTERNATIONAL INC. Hsinhua Laboratory**  
No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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### **Photographs of EUT V01**

## History of this test report

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# 1 General Description

## 1.1 Information

### 1.1.1 EUT General Information

RF General Information			
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type
Bluetooth	2400-2483.5	2402-2480	BR / EDR: FHSS (GFSK / $\pi/4$ -DQPSK / 8DPSK) LE: DSSS (GFSK)

### 1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	FEIMIN TECHNOLOGY CO.,LTD.	SYN3 Antenna 1812	FPC	N/A	0

**For BT function:**

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 1 can be used as transmitting/receiving antenna.

### 1.1.3 Accessories

Accessories				
Charging Case	Brand Name	unfilter	Model Name	Uf-001
	Manufacturer	OBO Pro.2 Inc.	SN	uf29AE000005
Charging Case Battery	Brand Name	Xin Yu GanFeng Eletronics Co.,Ltd.	Model Name	702334
	Manufacturer	Xin Yu GanFeng Eletronics Co.,Ltd.	SN	uf29AE000005
	Power Rating	3.7 Vdc, 500 mAh	Type	Li-ion, Yes
USB Type C Cable	Brand Name	unfilter	Model Name	u-puretone
	Power Cord	0.12 meter, non-shielded cable		
Battery	Brand Name	XINYU GANFENG ELECTRONICS	Model Name	1254
	Manufacturer	XINYU GANFENG ELECTRONICS	SN	Uf11AB999999
	Power Rating	3.7 Vdc, 60 mAh	Type	Li-ion, Yes

Reminder: Regarding to more detail and other information, please refer to user manual.



## 1.2 Testing Location

<b>Test Lab. : Sporton International Inc. Hsinhua Laboratory</b>		
<input checked="" type="checkbox"/>	Hsinhua (TAF: 3785)	<b>ADD:</b> No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.) <b>TEL:</b> 886-3-327-3456 <b>FAX:</b> 886-3-327-0973
Test site Designation No. TW3785 with FCC.		
<input type="checkbox"/>	Wen 33rd.St. (TAF: 3785)	<b>ADD:</b> No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) <b>TEL:</b> 886-3-318-0787 <b>FAX:</b> 886-3-318-0287
Test site Designation No. TW0008 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

- 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:

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

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

- $f_{(\text{GHz})}$  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	Tolerance	Tune-up Max. Power		Test Distance	Frequency	Exclusion
(dBm)	(dB)	(dBm)	(mW)	(mm)	(GHz)	Thresholds
9.26	0.5	9.76	9.46	5	2.48	2.98

- Per FCC KDB 447498 D01 v06 exclusion thresholds is  $2.98 < 3$ , RF exposure evaluation is not required.

————THE END————