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RF Exposure Evaluation Report

Report No.: CQASZ20220100002E-03
Applicant: Yibai Science & Technology (Shenzhen) Co., Ltd.
Address of Applicant: No. 1112, Building 5A, Tusincere Technology Park.Huanggekeng Community Longcheng Street, Longgang District.Shenzhen, China
Equipment Under Test (EUT):
EUT Name: TRUE WIRELESS EARPHONE
Test Model No.: SUGAR 20
Model No.: SUGAR 20
Brand Name: yobybo
FCC ID: 2AVYG-SUGAR20
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2022-01-04
Date of Test: 2022-01-04 to 2022-01-12
Date of Issue: 2022-01-14
Test Result: **PASS***

*In the configuration tested, the EUT complied with the standards specified above

Tested By: Lewis Zhou

(Lewis Zhou)

Reviewed By: Rock Huang

(Rock Huang)

Approved By: Jack Ai

(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20220100002E-03	Rev.01	Initial report	2022-01-14

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3 General Information

3.1 Client Information

Applicant:	Yibai Science & Technology (Shenzhen) Co., Ltd.
Address of Applicant:	No. 1112, Building 5A, Tusincere Technology Park.Huanggekeng Community Longcheng Street, Longgang District.Shenzhen, China
Manufacturer:	Yibai Science & Technology (Shenzhen) Co., Ltd.
Address of Manufacturer:	No. 1112, Building 5A, Tusincere Technology Park.Huanggekeng Community Longcheng Street, Longgang District.Shenzhen, China
Factory:	Yibai Science & Technology (Shenzhen) Co., Ltd.
Address of Factory:	No. 1112, Building 5A, Tusincere Technology Park.Huanggekeng Community Longcheng Street, Longgang District.Shenzhen, China

3.2 General Description of EUT

Product Name:	TRUE WIRELESS EARPHONE
Model No.:	SUGAR 20
Test Model No	SUGAR 20
Trade Mark:	yobybo
EUT Supports Radios application:	Bluetooth mode 2402-2480MHz
Software Version:	224
Hardware Version:	XRX-SUGAR20-V05
Sample Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
EUT Power Supply:	Charging box: Li-ion battery: DC 3.7V 300mAh, Charge by DC 5V for adapter
	Earphone : Li-ion battery: DC 3.7V 30mAh, Charge by DC 3.7V for Charging box

3.3 General Description of BT&BLE

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.3
Modulation Technique:	BLE: Non Frequency Hopping Spread Spectrum(NFHSS) BT : Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	BLE:GFSK BT:GFSK, $\pi/4$ DQPSK
Number of Channel:	BLE:40 BT:79
Transfer Rate:	BLE:1Mbps BT :1Mbps/2Mbps
Test Software of EUT:	FCC Assist 1.0.2.2
Antenna Type:	Chip antenna
Antenna Gain:	2.5dBi

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

4.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

4.1.3 EUT RF Exposure

For BT:

Measurement Data

Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-1.16	-1.0±1	0	1.000	0.310	3.0
Middle (2440MHz)	0.31	0.5±1	1.5	1.413	0.441	
Highest (2480MHz)	1.12	1.0±1	2.0	1.585	0.499	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20220100002E-01.

For BLE:

Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-2.54	-2.5±1	-1.5	0.708	0.219	3.0
Middle (2440MHz)	-1.01	-1.0±1	0	1.000	0.312	
Highest (2480MHz)	-0.84	-1.0±1	0	1.000	0.315	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20220100002E-02.

*** END OF REPORT ***