



## Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

Telephone: +86-755-26648640  
Fax: +86-755-26648637  
Website: [www.cqa-cert.com](http://www.cqa-cert.com)

Report Template Version: V05  
Report Template Revision Date: 2021-11-03

# 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:** N/A

**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

## 2 Contents

	Page
<b>1 VERSION.....</b>	<b>2</b>
<b>2 CONTENTS.....</b>	<b>3</b>
.....	3
<b>3 GENERAL INFORMATION.....</b>	<b>4</b>
3.1 CLIENT INFORMATION.....	4
3.2 GENERAL DESCRIPTION OF EUT.....	4
3.3 GENERAL DESCRIPTION OF BT&BLE.....	4
<b>4 SAR EVALUATION.....</b>	<b>5</b>
4.1 RF EXPOSURE COMPLIANCE REQUIREMENT.....	5
4.1.1 Standard Requirement.....	5
4.1.2 Limits.....	5
4.1.3 EUT RF Exposure.....	6

### 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:	N/A
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, π/4DQPSK
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  $\leq 50$  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<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  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 \*\*\*