

EMC-TRF-03 Rev 1.0

Report No.: GZCR210802093603 Page: 1 of 9 FCC ID: 2AN4C-TWE7B

RF EXPOSURE EVALUATION REPORT

Application No.:	GZCR2108020936AT				
Applicant:	Shenzhen Grandsun Electronic Co., Ltd.				
Address of Applicant:	East Park,Gaoqiao Industry Zone,Pingdi Street,Longgang,Shenzhen China				
Manufacturer:	Shenzhen Grandsun Electronic Co., Ltd.				
Address of Manufacturer:	rer: East Park, Gaoqiao Industry Zone, Pingdi Street, Longgang, Shenzhen China				
Factory:	Shenzhen Grandsun Electronic Co., Ltd.				
Address of Factory:	East Park, Gaoqiao Industry Zone, Pingdi Street, Longgang, Shenzhen China				
Equipment Under Test (EUT):					
EUT Name:	True Wireless Earbuds				
Model No.:	TW-E7B				
Trade Mark:	YAMAHA				
Standard(s) :	47 CFR PART 1, Subpart I, Section 1.1310				
	47 CFR PART 2, Subpart J, Section 2.1093				
	KDB447498D01 General RF Exposure Guidance v06				
Date of Receipt:	2021-08-23				
Date of Evaluation:	2021-08-23 to 2021-08-31				
Date of Issue:	2021-09-01				
Evaluation Result:	Pass*				

* In the configuration evaluated, the EUT complied with the standards specified above.

oke. Jun

Kobe Jian EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-09-01		Original

Authorized for issue by		
Tested By	CQ-V/U Curry Wu/Project Engineer	
	Riday Lin	
Reviewed By	1000	
	Ricky Liu/Reviewer	



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Evaluation Summary 2

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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4 **General Information**

Details of E.U.T. 4.1

Power supply:	DC 5V from adapter input AC 120V/60Hz
	Lithium Ion Battery: DC 3.7V 85mAh 0.32Wh rechargeable battery
	which charged by charging case for left earbud and right earbud
	Lithium Ion Battery: DC 3.7V 800mAh 2.96Wh rechargeable battery which charged by USB port for charging case
Cable(s):	Type C cable:13cm unshielded
Ratings:	Lithium Ion Battery: DC 3.7V 85mAh 0.32Wh rechargeable battery which charged by charging case for left earbud and right earbud
	Lithium Ion Battery: DC 3.7V 800mAh 2.96Wh rechargeable battery which charged by USB port for charging case
Serial No.:	Z010461UW
For BT:	
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.2 Dual mode
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Antenna Type:	LDS
Antenna Gain:	0.45dBi
For BLE:	
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.2 Dual mode
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Rate data:	1M/bits and 2M/bits
Antenna Type:	LDS
Antenna Gain:	0.45dBi

4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 Tel: +86 20 82155555 Fax: +86 20 82075059 No tests were sub-contracted.



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4.3 Facility

The facility is recognized, certified, or accredited by the following organizations:

• NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

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

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.4 Deviation from Standards

None

Abnormalities from Standard Conditions 4.5

None



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Technical Requirements Specification 5

5.1 RF Exposure Evaluation

5.1.1 Limit & Test Method

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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · $[\sqrt{f(GHz)}] \le 3.0$ 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 \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

5.1.2 Conclusion

For BT :

Right earbud

The Max. power (including tune-up toleranc 8.18 dBm on the highest chann 2.48 GHz (*) 8.18 dBm logarithmic terms convert to numeric result is nearly 6.58 mW According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, n [√f(GHz)]

General RF Exposure = (6.58 mW / 5 mm) x $\sqrt{2.48}$ GHz = 2.07 (1) SAR requirement: S = 3.0 (2)(1) < (2)

So the SAR report is not required.

(*) Max. power refer to Report No.:GZCR210802093601

Left earbud



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Report No.: GZCR210802093603 EMC-TRF-03 Rev 1.0 Page: 8 of 9 The Max. power (including tune-up toleranc 8.58 dBm on the highest chann 2.48 GHz (*) 8.58 dBm logarithmic terms convert to numeric result is nearly 7.21 mW According to the formula. calculate the test exclusion thresholds: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, n [√f(GHz)] General RF Exposure = (7.21 mW / 5 mm) x $\sqrt{2.48}$ GHz = 2.27 (1) SAR requirement: S = 3.0(2) (1) < (2)So the SAR report is not required. (*) Max. power refer to Report No.:GZCR210802093601 For BLE : **Right earbud** 1M: The Max. power (including tune-up toleranc 3.56 dBm on the highest chann 2.402 GHz (*) 3.56 dBm logarithmic terms convert to numeric result is nearly 2.27 mW According to the formula. calculate the test exclusion thresholds: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, n [√f(GHz)] General RF Exposure = (2.27 mW / 5 mm) x $\sqrt{2.402}$ GHz = 0.70 (1)SAR requirement: S = 3.0(2)(1) < (2)So the SAR report is not required. (*) Max. power refer to Report No.:GZCR210802093602 2M: The Max. power (including tune-up toleranc 3.56 dBm on the highest chann 2.402 GHz (*) 3.56 dBm logarithmic terms convert to numeric result is nearly 2.27 mW According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, n [√f(GHz)]

General RF Exposure = (2.27 mW / 5 mm) x √2.402 GHz = 0.70	(1)
SAR requirement:	
<i>S</i> = <i>3</i> .0	(2)
(1) < (2)	
So the SAR report is not required.	

(*) Max. power refer to Report No.:GZCR210802093602

Left earbud 1M:



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Report No.: GZCR210802093603 EMC-TRF-03 Rev 1.0 Page: 9 of 9 The Max. power (including tune-up toleranc 4.35 dBm on the highest chann 2.48 GHz (*) 4.35 dBm logarithmic terms convert to numeric result is nearly 2.72 mW According to the formula. calculate the test exclusion thresholds: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, n [√f(GHz)] General RF Exposure = $(2.72 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.48 \text{ GHz}} = 0.86$ (1) SAR requirement: S = 3.0(2) (1) < (2)So the SAR report is not required. (*) Max. power refer to Report No.:GZCR210802093602 2M: The Max. power (including tune-up toleranc 4.4 dBm on the highest chann 2.48 GHz (*) 4.40 dBm logarithmic terms convert to numeric result is nearly 2.75 mW According to the formula. calculate the test exclusion thresholds: [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, n [√f(GHz)] General RF Exposure = (2.75 mW / 5 mm) $x \sqrt{2.48}$ GHz = 0.87 (1) SAR requirement: S = 3.0 (2) (1) < (2)So the SAR report is not required.

(*) Max. power refer to Report No.:GZCR210802093602

EUT Constructional Details (EUT Photos) 6

Refer to appendix - external and internal photos for GZCR2108020936AT

- End of the Report -



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