

Report No.: SZCR210502110303

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SAR Evaluation Report

Application No.: SZCR2105021103AT

Applicant: Earfun Technology (HK) Limited

Address of Applicant: FLAT/RM A 9F, SILVERCORP INTERNATIONAL TOWER 707-713 NATHAN

ROAD MONGKOK KL, HONG KONG

Manufacturer: Earfun Technology (HK) Limited

Address of Manufacturer: FLAT/RM A 9F, SILVERCORP INTERNATIONAL TOWER 707-713 NATHAN

ROAD MONGKOK KL, HONG KONG

Factory: Dongguan HANK Electronics., LTD

Address of Factory: 101, Block 1, No.1 Guliao Er Road, Tangxia Town, Dongguan City,

Guangdong Province, China

Equipment Under Test (EUT):

EUT Name: ANC Wireless Earbuds

Model No.: TW300
Trade mark: EarFun

FCC ID: 2AVIT-TW300

Standards: 47 CFR Part 1.1307

47 CFR Part 2.1093

KDB447498D01 General RF Exposure Guidance v06

Date of Receipt: 2021-05-19

Date of Test: 2021-05-27 to 2021-06-19

Date of Issue: 2021-06-25

Test Result : PASS*

Keny Xu EMC Laboratory Manager



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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2 Version

Revision Record						
Version	Chapter	Date	Modifier	Remark		
01		2021-06-25		Original		

Authorized for issue by:		
	Charle Doi	
	Charlie Dai/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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4 General Information

4.1 General Description of EUT

E.U.T function: The EUT include the Left and Right earbuds and travel case. the function as the following: 1.The Left and Right earbuds connect to the mobile phone to play or record the audio. 2.The travel case is charged by DC 5V or WPC and charge the left and right earbuds. Battery: Left earbuds: Li-Ion Polymer Battery 3.7V 45mAh(Charge by travel case) Right earbuds: Li-Ion Polymer Battery 3.7V 45mAh(Charge by travel case) Travel case with backup battery: Li-Ion Polymer Battery 3.7V 500mAh(Charged by Type-C port) Cable(s): Type-c cable 26cm Unshielded Non-Core Operation Frequency: 2402MHz to 2480MHz Bluetooth Version: V5.2 Classic Modulation Type: GFSK, pi/4DQPSK, 8DPSK Number of Channels: 79 Channel Spacing: 1MHz Spectrum Spread Technology: Frequency Hopping Spread Spectrum(FHSS) Antenna Type: FPC Antenna Antenna Gain: Left: 0.39dBi; Right: 0.39dBi	_	
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Spectrum Spread Technology: Frequency Hopping Spread Spectrum(FHSS) Antenna Type: FPC Antenna	Number of Channels:	79
Antenna Type: FPC Antenna	Channel Spacing:	1MHz
	Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
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4.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.3 Test Facility

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

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None

4.6 Other Information Requested by the Customer

None.



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5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 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.

5.1.2 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:

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

5.1.3 EUT RF Exposure

For Left earbuds / Right earbuds:

The Max. power (including tune-up toleranc 6 dBm on the highest chann 2.48 GHz (*)

6.00 dBm logarithmic terms convert to numeric result is nearly 3.98 mW

According to the formula. calculate the test exclusion thresholds:

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

General RF Exposure = (3.98 mW / 5 mm) x $\sqrt{2.48}$ GHz = 1.25

SAR requirement:

 $S = 3.0 \tag{2}$

(1) < (2)

So the SAR report is not required.

(*) Max. power refer to user manual.

- End of the Report -



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