Report No.: DDT-R23021028-2E09

Issued Date: Mar. 17, 2023

RF EXPOSURE REPORT

FOR

Applicant	**:**	Dongguan Siyoto Electronics Co., Ltd.
Address	**:**	No.10 North 7th street, Qiaodong road, Qiaotou town, Dongguan, Guangdong, China
Equipment under Test	**:**	WIRELESS HEADPHONES
Model No.	**:**	HA-XC62T
Trade Mark	**:**	JVC
FCC ID	**:**	2ADZH62R
Manufacturer	**:**	Dongguan Siyoto Electronics Co., Ltd.
Address	**:**	No.10 North 7th street, Qiaodong road, Qiaotou town, Dongguan, Guangdong, China

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808

Tel.: +86-0769-38826678, **E-mail:** ddt@dgddt.com, http://www.dgddt.com

REPORT

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Test Report Declare

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Standard Used: 447498 D04 Interim General RF Exposure Guidance v01

We Declare:

The equipment described above is assessed by Dongguan Dongdian Testing Service Co., Ltd. and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Dongguan Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No:	DDT-R23021028-2E09		
Date of Receipt:	Mar. 01, 2023	**Date of Test:**	Mar. 01, 2023 ~ Mar. 17, 2023

Prepared By:

Bobo Chen

Bobo Chen/Engineer

Approved By:

DONGGUAN DONGDIAN TESTING SERVICE CO., LTD. APPROVED Damon Hu

Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Mar. 17, 2023	

1. General Information

1.1. Description of equipment

EUT* Name	:	WIRELESS HEADPHONES
Model Number	:	HA-XC62T
EUT Function Description	:	Please reference user manual of this device
Power Supply	:	Charging case: DC 5V by an external adapter or a 3.7V built-in lithium battery. Wireless headphones: DC 3.7V built-in lithium battery. (Charging in charging case)
Radio Specification	:	Bluetooth V5.3
Operation Frequency	:	2402 MHz - 2480 MHz
Modulation	:	GFSK, π/4-DQPSK
Data Rate	:	1 Mbps, 2 Mbps
Antenna Gain	:	0.53 dBi
Sample Type	:	Series production
Sample Number	:	S23021028-11 for conductive, S23021028-12 for radiation

1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808.

Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, G-20118

2. RF Exposure evaluation for FCC

Exemptions from an environmental assessment showing compliance to SAR limits in § 1.1310 are derived based on frequency, power, and separation distance of the RF source. These exemptions are assessed through a formula that defines the thresholds for either available maximum time-averaged power or maximum time-averaged ERP, whichever is greater.

If the ERP of a device is not easily determined, such as for a portable device with a small form factor, the applicant may use the available maximum time-averaged power exclusively if the device antenna or radiating structure does not exceed an electrical length of λ/4.

As for devices with antennas of length greater than λ/4 where the gain is not well defined, but always less than that of a half-wave dipole (length λ/2), the available maximum time-averaged power generated by the device may be used in place of the maximum time-averaged ERP, where that value is not known.

The separation distance is the smallest distance from any part of the antenna or radiating structure for all persons, during operation at the applicable ERP. In the case of mobile or portable devices, the separation distance is from the outer housing of the device where it is closest to the antenna.

The exemption formula of § 1.1307(b)(3)(i)(B) shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). This formula applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the power threshold in mW, here referred to as P1.1307(dcm, fGHz) and expressed as

$$P_{1.1307}(d_{cm}, f_{GHz}) := \begin{cases} ERP_{20cm}(f_{GHz}) \cdot (d_{cm}/20)^{x(f_{GHz})} & d_{cm} < 20 \\ ERP_{20cm}(f_{GHz}) & d_{cm} \geq 20 \end{cases} \quad \text{(A.2.1)},$$

where *dcm* is the distance in *cm*, *fGHz* is the frequency in GHz, and Formula (A.2.2) is the same as in Formula (A.1.1), repeated here for convenience)

$$ERP_{20cm}(f_{GHz}) := \begin{cases} 2040 \cdot f_{GHz} & f_{GHz} < 1.5 \\ 3060 & 1.5 < f_{GHz} \leq 6 \end{cases} \quad \text{(A.2.2)},$$

and

$$x(f_{GHz}) := -\log_{10}\left(\frac{60}{ERP_{20cm}(f_{GHz}) \cdot \sqrt{f_{GHz}}}\right) \quad \text{(A.2.3)}$$

Estimtion Result

Exemption limit:

For f=2.48GHz, d=0.5cm, the Pth=2.72mW

The higher of the available maximum time-averaged power or effective radiated power (ERP):

The antenna gain is 0.53dBi= -1.62dBd

The maximum tune-up conducted power is 4dBm

The maximum tune-up ERP is 4dBm-1.62 dBd = 2.38dBm

The maximum tune-up power is 4dBm (2.51mW), which less than 2.72mW@2480MHz exemption limit.

So the stand-alone SAR evaluation can be exempted.

END OF REPORT