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RF Exposure Evaluation Report

Product : Active Noise Cancelling Wireless HD Headphones

Trade mark : TREBLAB

Model/Type reference : TREBLAB Z2, Z2, TREBLAB Z2-B, Z2-B

Serial Number : N/A

Report Number : EED32P81864403

FCC ID : 2A889-Z2

Date of Issue : Dec. 22, 2023

Test Standards : 47 CFR Part 1.1307

47 CFR Part 1.1310 47 CFR Part 2.1091 47 CFR Part 2.1093

447498 D04 Interim General RF Exposure

Guidance v01

Test result : PASS

Prepared for:

Productech Corporation 7901 4TH ST N, SUITE 4240, St. Petersburg, FL, 33702, USA

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Version No.	Date		Description	
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4.1 Client Information

Applicant:	Productech Corporation
Address of Applicant:	7901 4TH ST N, SUITE 4240, St. Petersburg, FL, 33702, USA
Manufacturer:	Productech Corporation
Address of Manufacturer:	7901 4TH ST N, SUITE 4240, St. Petersburg, FL, 33702, USA
Factory:	Shen Zhen Lighkeep Co., Limited
Address of Factory:	No 19, Baotong South Road, Xikeng Community, Longgang Zone, Shenzhen City, Guangdong Province, China

4.2 General Description of EUT

Product Name:	/3	Active Noise Cancelling Wireless HD Headphones	
Model No.(EUT):	(0)	TREBLAB Z2, Z2, TREBLAB Z2-B, Z2-B	(6,)
Test Model No.:		TREBLAB Z2	
Trade Mark:		TREBLAB	

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz		
Modulation Type:	BLE: GFSK		
	BT: GFSK, π/4DQPSK, 8DPSK		
Test Power Grade:	Default		
Test Software of EUT:	BT FCC Tool	(0,)	(0,
Antenna Type:	PCB Antenna		
Antenna Gain:	0.8dBi		
Power Supply:	Battery DC 3.7V		
Sample Received Date:	Mar. 14, 2023	\	
Sample tested Date:	Mar. 14, 2023 to Mar. 29, 2023		

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

Model No.: TREBLAB Z2, Z2, TREBLAB Z2-B, Z2-B

Only the model TREBLAB Z2 was tested. Their electrical circuit design, layout, components used and internal wiring are identical, only the color of the appearance, bluetooth pairing name, logo are different.

















4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.





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SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), 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 threshold Pth (mW).

This method 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). Pth is given by Formula

$$P_{\text{th}} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\text{cm}}\sqrt{f}}\right)$$

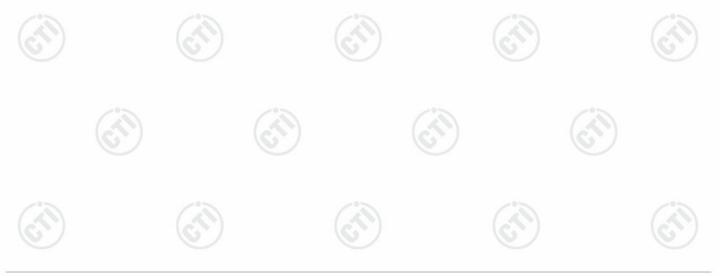
and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{\text{th}} (\text{mW}) = ERP_{20 \text{ cm}} (\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$
(B. 1)

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.





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5.1.3 EUT RF Exposure Evaluation

For Stand alone:

For BLE

Frequency	Max.	Antenna	EIRP	ERP	ERP	Limit	Result
(MHz)	Conducted	Gain (dBi)	(dBm)	(dBm)	(mW)	(mW)	
	Output						
	power	1		- °		100	
(47)	(dBm)	(17)		(24)		(41)	
2480	1.67	0.8	2.47	0.32	1.076	2.717	PASS

For BT Classic

Frequency	Max.	Antenna	EIRP	ERP	ERP	Limit	Result
(MHz)	Conducted	Gain (dBi)	(dBm)	(dBm)	(mW)	(mW)	(6)
	Output						
	power						
-0.55	(dBm)	-07		-0.5			
2480	3.12	0.8	3.92	1.77	1.503	2.717	PASS

Note:

- ①EIRP=conducted power+antenna gain;
- **2**ERP=EIRP-2.15
- ③Only the worst case data was recorded in the report.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***