RF Exposure Evaluation Report

Product	:	Elegant Wireless Headset
Trade mark	:	MINISO
Model/Type reference	:	P16(Black), P16(Pink), P16(Khaki), P16(Purple)
Serial Number	:	N/A
Report Number	:	EED32Q81097801
FCC ID	:	2A2H6-P16
Date of Issue	:	Aug. 21, 2024
Test Standards	:	47 CFR Part 1.1307 47 CFR Part 1.1310 47 CFR Part 2.1091 47 CFR Part 2.1093 KDB 447498 D04 Interim General RF Exposure Guidance v01
Test result	:	PASS

Prepared for:

Shenzhen Bao Tianhua Technology Co., Ltd
301, Building Plant No.5 Anliang Road, Xi kengCommunity, Longgang District, Shenzhen, Guangdong, China

Prepared by:

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Check No.: 1636290724

1 Version

Version No.	Date	Description
00	Aug. 21, 2024	Original

2 Contents

3 General Information

3.1 Client Information

Applicant:	Shenzhen Bao Tianhua Technology Co., Ltd
Address of Applicant:	301, Building Plant No.5 Anliang Road, Xi kengCommunity, Longgang District, Shenzhen, Guangdong, China
Manufacturer:	Shenzhen Bao Tianhua Technology Co., Ltd
Address of Manufacturer:	301, Building Plant No.5 Anliang Road, Xi kengCommunity, Longgang District, Shenzhen, Guangdong, China
Factory:	Shenzhen Bao Tianhua Technology Co., Ltd
Address of Factory:	301, Building Plant No.5 Anliang Road, Xi kengCommunity, Longgang District, Shenzhen, Guangdong, China

3.2 General Description of EUT

Product Name:	Elegant Wireless Headset
Model No.(EUT):	P16(Black), P16(Pink), P16(Khaki), P16(Purple)
Test Model No.:	P16(Black)
Trade Mark:	MINISO

3.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz	
Modulation Type:	GFSK, π/4DQPSK, 8DPSK	
Test Power Grade:	Default	
Test Software of EUT:	BT_Tool.exe	
Antenna Type:	PCB Antenna	
Antenna Gain:	-0.59dBi	
Power Supply:	Battery:	DC3.7V
Sample Received Date:	Jul. 30, 2024	
Sample tested Date:	Jul. 30, 2024 to Aug. 17, 2024	

Remark:
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.: P16(Black), P16(Pink), P16(Khaki), P16(Purple)
Only the model P16(Black) was tested. The electrical circuit design, layout, components used and internal wiring are identical, only model name, appearance and color are different.

3.4 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

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

3.7 Other Information Requested by the Customer

None.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 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).

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

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.

4.1.2 Test Procedure

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

4.1.3 EUT RF Exposure Evaluation

For Stand alone:

For BT:

Frequency (MHz)	Available maximum time-averaged power (dBm)	Antenna gain (dBi)	ERP (dBm)	Available maximum time-averaged power (mW)	Limit (mW)	Result
2480	-1.13	-0.59	-3.87	0.771	≤2.717	PASS

Note：

①EIRP=Available maximum time-averaged power+Antenna gain；

②ERP=EIRP-2.15;

③According to § 1.1307(b)(3)(i)(B),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). Only the worst case data was recorded in the report.

*** End of Report ***