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RF Exposure Evaluation Report

Sport wireless Earphones **Product**

Trade mark **MINISO** Model/Type reference **TB15 Serial Number** N/A

Report Number EED32N80784502

FCC ID 2ART4-TB15 Date of Issue Oct. 08, 2021

> 47 CFR Part 1.1307 47 CFR Part 1.1093

Test Standards KDB447498D01 General RF

Exposure Guidance v06

PASS Test result

Prepared for:

MINISO Corporation Room 2501, No. 486 Heye Square, Kangwang Middle Road, Liwan District, Guangzhou, Guangdong, China

Prepared by:

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Date

Oct. 08, 2021

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1 Version

Version No.	Date	Description
00	Oct. 08, 2021	Original
(II)		











































































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General Information

3.1 Client Information

Applicant:	Miniso Corporation	
Address of Applicant:	Room 2501, No. 486 Heye Square Kangwang Middle Road, Liwan District, GuangZhou, Guangdong, China	
Manufacturer:	Dongguan Shengbang Electronic Technology Co. , Ltd.	
Address of Manufacturer:	Room 101, No. 33, Shenxi Road, Houjie Town, Dongguan City, Guangdong Province	
Factory:	Dongguan Shengbang Electronic Technology Co. , Ltd.	
Address of Factory:	ctory: Room 101, No. 33, Shenxi Road, Houjie Town, Dongguan City, Guangdong Province	

3.2 General Description of EUT

Product Name:	Sport wireless Earphones
Model No.(EUT):	MINISO
Trade Mark:	TB15
Power Supply:	DC 3.7V 165 mAh (Li-on Rechargeable Battery)
Test Voltage:	DC 3.7V

3.3 Product Specification subjective to this standard

Frequency Range:	2402MHz to 2480MHz		
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)		
Modulation Type:	GFSK, π/4DQPSK, 8DPSK		
Test Software of EUT:	BT_Tool V1.0.5		
Test Power Grade:	Default		
Antenna Type:	PCB antenna		
Antenna Gain:	0dBi		
Power Supply:	DC 3.7V		
(653)	BT: -4.37dBm		
Max Conducted Peak Output Power:	The Max Conducted Peak Output Power data refer to the report EED32N80784501		
Sample Received Date:	Aug. 26, 2021		
Sample tested Date:	Aug. 26, 2021 to Sep. 23, 2021		

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. Note: There is only one model: TB15, but it has three colors (black, white, and green), only the green EUT has been tested.













3.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

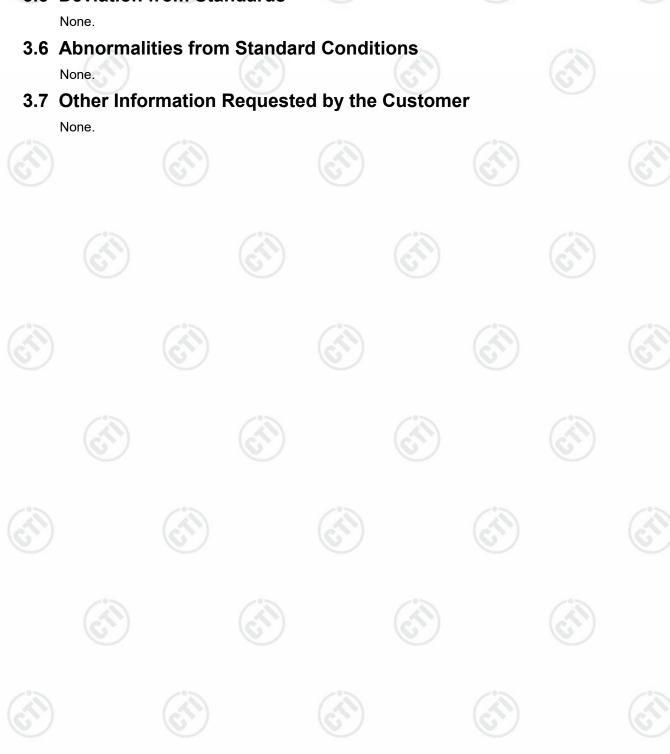
Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

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

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

3.5 Deviation from Standards





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4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06 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.

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:

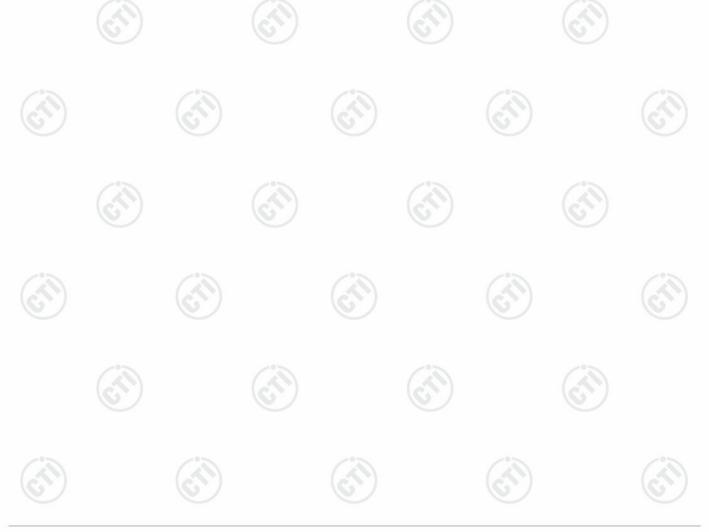
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

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 \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion





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4.1.2 EUT RF Exposure

The tune-up power is -4.5 dBm +/- 0.5dB, therefore the highest tune-up power is

-4.0dBm (0.40mW) @2480 MHz

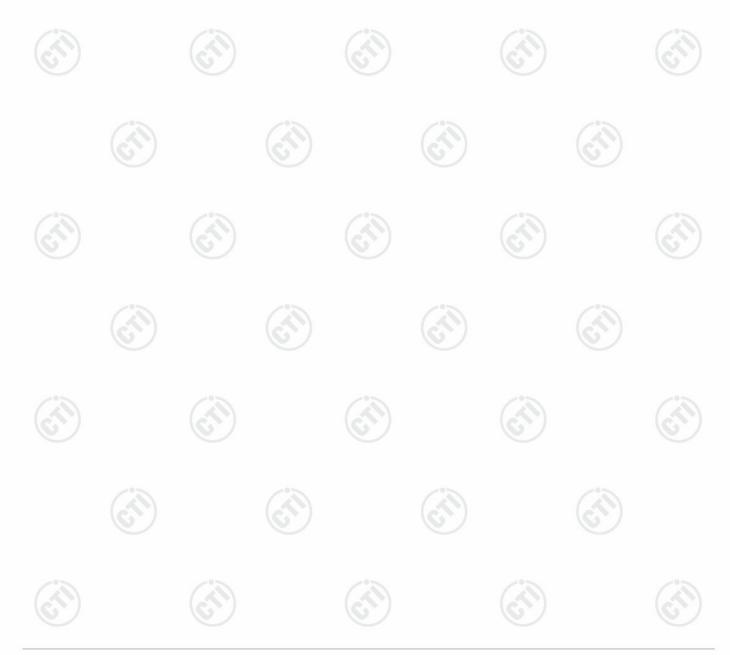
When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

So,

(0.40mW / 5mm) * (2480GHz^0.5)=0.12

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] * [√f(GHz)] = 0.12 < 3.0

Therefore, standalone SAR measurements are not required for both head and body





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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32N80784501 for EUT external and internal photos.

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