

RF Exposure Evaluation Report

Product : Classic CD Patterned Wireless Headphones
Trade mark : MINISO / MUCRO
Model/Type reference : L36
Serial Number : N/A
Report Number : EED32N80725102
FCC ID : 2ART4-L36
Date of Issue : Sep. 13, 2021
Test Standards : 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF
Exposure Guidance v06
Test result : PASS

Prepared for:

MINISO CORPORATION
ROOM 2501, NO.486 HEYE SQUARE,
KANGWANG MIDDLE ROAD, LIWAN DISTRICT,
GUANGZHOU, GUANGDONG, CHINA

Prepared by:

Centre Testing International Group Co., Ltd.
Hongwei Industrial Zone, Bao'an 70 District,
Shenzhen, Guangdong, China
TEL: +86-755-3368 3668
FAX: +86-755-3368 3385



Compiled by:

Frazer Li

Reviewed by:

Aaron Ma

Frazer Li

Aaron Ma

Approved by:

David Wang

Date:

Sep. 13, 2021

David Wang

Check No.:5632120821

2 Version

Version No.	Date	Description
00	Sep. 13, 2021	Original

3 Contents

	Page
1 COVER PAGE.....	1
2 VERSION.....	2
3 CONTENTS.....	3
4 GENERAL INFORMATION.....	4
4.1 CLIENT INFORMATION.....	4
4.2 GENERAL DESCRIPTION OF EUT.....	4
4.3 GENERAL DESCRIPTION OF BT CLASSIC.....	4
4.4 TEST LOCATION.....	5
4.5 DEVIATION FROM STANDARDS.....	5
4.6 ABNORMALITIES FROM STANDARD CONDITIONS.....	5
4.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER.....	5
5 SAR EVALUATION.....	6
5.1 RF EXPOSURE COMPLIANCE REQUIREMENT.....	6
5.1.1 Standard Requirement.....	6
5.1.2 EUT RF Exposure.....	7
PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS.....	8

4 General Information

4.1 Client Information

Applicant:	MINISO CORPORATION
Address of Applicant:	ROOM 2501, NO.486 HEYE SQUARE, KANGWANG MIDDLE ROAD, LIWAN DISTRICT, GUANGZHOU, GUANGDONG, CHINA
Manufacturer:	Huizhou Willong Zhanye Industrial Co., Ltd.
Address of Manufacturer:	1 st Rainbow Rd, Yonghu Town, Huiyang Dist, Huizhou, Guangdong
Factory:	Huizhou Willong Zhanye Industrial Co., Ltd.
Address of Factory:	1 st Rainbow Rd, Yonghu Town, Huiyang Dist, Huizhou, Guangdong

4.2 General Description of EUT

Product Name:	Classic CD Patterned Wireless Headphones
Mode No.:	L36
Trade mark:	MINISO / MUCRO
Power Supply:	DC 3.7V 300 mAh (Li-on Rechargeable Battery)
Test Voltage:	DC 3.7V
Sample Received Date:	Aug. 13, 2021
Sample tested Date:	Aug. 14, 2021 to Aug. 23, 2021
Remark:	1. 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. 2. Model No.: L36 It comes in three colors, only the black was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the three colors, with difference color.

4.3 General Description of BT Classic

Operation Frequency:	2402MHz~2480MHz
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location
Antenna Type:	PCB antenna
Antenna Gain:	4dBi

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.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 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:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$
$$f(\text{GHz}) \text{ is the RF channel transmit frequency in GHz}$$

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.

5.1.2 EUT RF Exposure

1)For BT Classic

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-0.66	-0.50±1	0.50	1.122
Middle(2441MHz)	-0.44	-0.50±1	0.50	1.122
Highest(2480MHz)	-0.29	-0.30±1	0.70	1.175
π/4DQPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-0.04	-0.05±1	0.95	1.245
Middle(2441MHz)	0.02	0.05±1	1.05	1.274
Highest(2480MHz)	0.37	0.40±1	1.04	1.271
8DPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	0.24	0.25±1	1.25	1.334
Middle(2441MHz)	0.38	0.40±1	1.40	1.380
Highest(2480MHz)	0.52	0.50±1	1.50	1.413

Worst case:8DPSK mode						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	0.24	0.25±1	1.25	1.334	0.413	3.0
Middle (2441MHz)	0.38	0.40±1	1.40	1.380	0.431	
Highest (2480MHz)	0.52	0.50±1	1.50	1.413	0.445	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: EED32N80725101.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32N80725101 for EUT external and internal photos.

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 ***