

RF Exposure Evaluation Report

Product : Neck-Hanging Wireless Headphones with Lights for Gaming
Trade mark : MINISO
Model/Type reference : S05
Serial Number : N/A
Report Number : EED32O80038102
FCC ID : 2ART4-S05
Date of Issue : Mar. 04, 2022
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

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Prepared by:

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Mar. 04, 2022



Check No.: 7951100122

2 Version

Version No.	Date	Description
00	Mar. 04, 2022	Original

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4 General Information

4.1 Client Information

Applicant:	MINISO Corporation
Address of Applicant:	Room 2501, 25th floor, No.486 Heye Square, Kangwang Middle Road, Liwan District, Guangzhou, Guangdong, China
Manufacturer:	KYM Technology Co., Ltd
Address of Manufacturer:	1001-01, No.1, Kanghuai Industrial Park, No.60 Ping'an Road, Dafu Community, Guanlan Street, Longhua District, Shenzhen, China
Factory:	KYM Technology Co., Ltd
Address of Factory:	1001-01, No.1, Kanghuai Industrial Park, No.60 Ping'an Road, Dafu Community, Guanlan Street, Longhua District, Shenzhen, China

4.2 General Description of EUT

Product Name:	Neck-Hanging Wireless Headphones with Lights for Gaming
Model No.(EUT):	S05
Trade Mark:	MINISO

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK, $\pi/4$ DQPSK
Test Power Grade:	Default
Test Software of EUT:	BT_Tool V1.0.9
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi
Power Supply:	Battery DC 3.7V, 400mAh
Max Conducted Peak Output Power:	4.1 dBm
	The Max Conducted Peak Output Power data refer to the report EED32O80038101
Sample Received Date:	Jan. 10, 2022
Sample tested Date:	Jan. 10, 2022 to Jan. 17, 2022
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.	

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.

5.1.2 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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

$f(\text{GHz})$ 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 ≤ 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

5.1.3 EUT RF Exposure

1) For Bluetooth Classic

Measurement Data:

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	3.08	3±1	4	2.512
Middle(2441MHz)	3.22	3±1	4	2.512
Highest(2480MHz)	3.27	3±1	4	2.512

$\pi/4$ DQPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	3.88	4±1	5	3.162
Middle(2441MHz)	3.92	4±1	5	3.162
Highest(2480MHz)	4.1	4±1	5	3.162

Worst case : $\pi/4$ DQPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	3.88	4±1	5	3.162	0.996	3.0
Middle (2441MHz)	3.92	4±1	5	3.162	0.996	
Highest (2480MHz)	4.1	4±1	5	3.162	0.996	
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: EED32O80038101.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32O80038101 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 ***