

RF Exposure Evaluation Report

Product : Lightweight 2.4G Wireless
Keyboard & Mouse Combos
Trade mark : MINISO
Model/Type reference : M833A
Serial Number : N/A
Report Number : EED32O80706904
FCC ID : 2ART4-M833A
Date of Issue : Jun. 20, 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

**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:

mark.chen.

Mark Chen

Approved by:

Aaron Ma

Aaron Ma

Reviewed by:

Tom Chen

Tom Chen

Date:

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2 Version

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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 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD.....	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 Limits.....	6
5.1.3 EUT RF Exposure.....	7

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:	Dongguan Eranode electronics limited
Address of Manufacturer:	building 2, No.17 DAHUAN Road, Dalingshan Town, Dongguan City, Guangdong Province
Factory:	Dongguan Eranode electronics limited
Address of Factory:	building 2, No.17 DAHUAN Road, Dalingshan Town, Dongguan City, Guangdong Province

4.2 General Description of EUT

Product Name:	Lightweight 2.4G Wireless Keyboard & Mouse Combos
Model No.(EUT):	M833A
Trade Mark:	MINISO

4.3 Product Specification subjective to this standard

Frequency Range:	2400MHz - 2483.5MHz
Modulation Type:	GFSK
Test Power Grade:	Default
Test Software of EUT:	N/A
Antenna Type:	PCB Antenna
Antenna Gain:	-1.52dBi
Power Supply:	DC 1.5V
Max Conducted Peak Output Power:	-7.8 dBm
	The Max Conducted Peak Output Power data refer to the report EED32O80706903
Sample Received Date:	May 20, 2022
Sample tested Date:	May 20, 2022 to May 31, 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

Measurement Data:

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-7.8	-8±1	-7	0.2
Middle(2440MHz)	-7.99	-8±1	-7	0.2
Highest(2480MHz)	-8.18	-8±1	-7	0.2

Worst case is GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-7.8	-8±1	-7	0.2	0.062	3.0
Middle (2440MHz)	-7.99	-8±1	-7	0.2	0.062	
Highest (2480MHz)	-8.18	-8±1	-7	0.2	0.063	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: EED32O80706903 .

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 ***