

RF Exposure Evaluation Report

Product : 2.4G dongle
Trade mark : MINISO
Model/Type reference : SE69D
Serial Number : N/A
Report Number : EED32N81434805
FCC ID : 2ART4-SE69D
Date of Issue : Feb. 11, 2022
47 CFR Part 1.1307
47 CFR Part 2.1093
Test Standards : KDB447498D01 General RF Exposure
Guidance v06
Test result : PASS

Prepared for:

MINISO Corporation

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Prepared by:

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2 Version

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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:	2.4G dongle
Model No.(EUT):	SE69D
Trade Mark:	MINISO

4.3 Product Specification subjective to this standard

For 2.4G

Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK
Test Power Grade:	Default
Test Software of EUT:	SE67T_Test_v161
Antenna Type:	PCB Antenna
Antenna Gain:	-2.36dBi
Power Supply:	DC 5V
Max Conducted Peak Output Power:	-5.2 dBm The Max Conducted Peak Output Power data refer to the report EED32N81434803.
Sample Received Date:	Dec. 27, 2021
Sample tested Date:	Dec. 27, 2021 to Jan. 10, 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:

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

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 ≤ 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 2.4G

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-5.2	-5.5±0.5	-5	0.316
Middle(2440MHz)	-5.53	-5.5±0.5	-5	0.316
Highest(2480MHz)	-5.41	-5.5±0.5	-5	0.316

Worst case: 2.4G						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-5.2	-5.5±0.5	-5	0.316	0.100	3.0
Middle (2440MHz)	-5.53	-5.5±0.5	-5	0.316	0.100	
Highest (2480MHz)	-5.41	-5.5±0.5	-5	0.316	0.100	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: EED32N81434803.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32N81434803 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 ***