

Report No.: SHEM200400259604

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1 Cover Page

RF Exposure Evaluation Report

Application No.: SHEM2004002596CR **FCC ID**: 2AWMOLYWSD03MMC

Applicant: Miaomiaoce Technology(Beijing)Co.,Ltd

Address of Applicant: No.21319, Building 37, No.11 Street, Hepingli Dongjie, Dongcheng District,

Beiiing.China

Manufacturer: Miaomiaoce Technology(Beijing)Co.,Ltd

Address of Manufacturer: No.21319, Building 37, No.11 Street, Hepingli Dongjie, Dongcheng District,

Beijing, China

Factory: Zhongkuang(Tinajin)Electronics Co.,Ltd No.6 Juxin Road,Jinnan District,Tianjin,China

Equipment Under Test (EUT):

EUT Name: Mi Temperature and Humidity Monitor 2

Model No.: LYWSD03MMC

Trade mark:

Standard(s): FCC Rules 47 CFR §2.1093

KDB447498 D01 General RF Exposure Guidance v06

Date of Receipt: 2020-04-10

Date of Test: 2020-05-01 to 2020-05-08

Date of Issue: 2020-05-12

Test Result: Pass*

parlan 2han

Parlam Zhan E&E Section Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sqs.com

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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Revision Record				
Version	Description	Date	Remark	
00	Original	2020-05-12	/	

Authorized for issue by:		
	Michael Mil	
	Micheal Niu /Project Engineer	-
	Parlam Zhan	
	Parlam Zhan /Reviewer	-



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3 General Information

3.1 General Description of E.U.T.

Power supply:	DC 3V by Button batteries

3.2 Technical Specifications

Antenna Gain:	3dBi
Antenna Type:	PCB Antenna
Bluetooth Version:	V4.2 LE
Channel Spacing:	2MHz
Data rate:	1Mbps
Modulation Type:	GFSK
Number of Channels:	40
Operation Frequency:	2402MHz to 2480MHz



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3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

All measurement facilities used to collect the measurement data are located at

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

No tests were sub-contracted.

3.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC –Designation Number: CN1172

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172. Test Firm Registration Number: 995260.

• Industry Canada (IC) – IC Assigned Code: 2324E

The 10m and 3m Semi-anechoic chamber of Compliance Certification Services (Kunshan) Inc. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 2324E-1 for 10m chamber, 2324E-2 for 3m chamber.

• VCCI (Member No.: 1938)

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-1600, C-1707, T-1499, G-10216 respectively.



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4 Test Standards and Limits

4.1 FCC Radiofrequency radiation exposure 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)/(min test separation distance)]*[$\sqrt{f(GHz)}$] ≤ 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
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds

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 < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion. For 2.4G band device, the limit of worse case is

 $P_{\text{max}} \le 3.0^{\circ} D_{\text{min}} / \sqrt{f} = 3.0^{\circ} 5 / \sqrt{2.480} = 9.525 \text{mW}$



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5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report SHEM200400259603

BLE

Test Mode	Test Frequency (MHz)	Output Power (dBm)	Reading Power (mW)
	2402	4.60	2.88
BLE	2440	3.99	2.51
	2480	4.83	3.04

5.2 MPE Calculation

The Max Conducted Peak Output Power is 3.04mW. The best case gain of the antenna is 3dBi. 3dBi logarithmic terms convert to numeric result is nearly 2

According to the formula. calculate the EIRP test result:

EIRP= P x G = 3.04 mW x 2 = 6.08 mW < 9.525 mW

So the SAR report is not required.

-- End of the Report--