

Report No.: SHEM190401210102

Page: 1 of 7

1 Cover Page

RF Exposure REPORT

Application No.: SHEM1904012101CR **FCC ID**: 2ATA8-SNM-FDC01

Applicant: Ningbo Medkinetic Medical Device Co., LTD.

Address of Applicant: Lushan West Road 167-8, Ningbo Free Trade Zone (South), Ningbo

Manufacturer: Ningbo Medkinetic Medical Device Co., LTD.

Address of Manufacturer: Lushan West Road 167-8, Ningbo Free Trade Zone (South), Ningbo

Factory: Ningbo Medkinetic Medical Device Co., LTD.

Address of Factory: Lushan West Road 167-8, Ningbo Free Trade Zone (South), Ningbo

Equipment Under Test (EUT):

EUT Name: Transcutaneous Electrical Acustimulator

Model No.: SNM-FDC01

Trade mark: Jorjin

Standard(s): FCC Rules 47 CFR §2.1093

KDB447498 D01 General RF Exposure Guidance v06

Date of Receipt: 2019-04-04

Date of Test: 2019-04-23 to 2019-04-27

Date of Issue: 2019-04-30

Test Result: Pass*

arlan 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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CND occheck@scs.com

NO.588 West Jindu Road,Songjiang District,Shanghai,China 201612 t((86-21)61915666 f(66-21)61915678 www.sgsgroup.com.cn 中国・上海・松江区金都西路588号 邮编: 201612 t((86-21)61915666 f(66-21)61915678 e sgs.china@sgs.com

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



Report No.: SHEM190401210102

Page: 2 of 7

| Revision Record | | | | |
|-----------------|-------------|------------|--------|--|
| Version | Description | Date | Remark | |
| 00 | Original | 2019-04-30 | / | |
| | | | | |

| Authorized for issue by: | | |
|--------------------------|----------------------------|--|
| | Bril Wu | |
| | Bill Wu / Project Engineer | |
| | Parlam Zhan | |
| | Parlam Zhan / Reviewer | |



Report No.: SHEM190401210102

Page: 3 of 7

2 Contents

| | | | Page |
|---|-----|--|------|
| 1 | C | COVER PAGE | 1 |
| 2 | C | CONTENTS | 3 |
| 3 | G | GENERAL INFORMATION | 4 |
| | 3.1 | GENERAL DESCRIPTION OF E.U.T. | 4 |
| | 3.2 | DETAILS OF E.U.T. | 4 |
| | 3.3 | TEST LOCATION | 5 |
| | 3.4 | TEST FACILITY | 5 |
| 4 | T | EST STANDARDS AND LIMITS | 6 |
| | 4.1 | FCC RADIOFREQUENCY RADIATION EXPOSURE LIMITS | 6 |
| 5 | N. | MEASUREMENT AND CALCULATION | 7 |
| | 5.1 | MAXIMUM TRANSMIT POWER | 7 |
| | 5.2 | RE EXPOSURE CALCULATION | 7 |



Report No.: SHEM190401210102

Page: 4 of 7

3 General Information

3.1 General Description of E.U.T.

| Power supply: | DC 3.7V 650mAh rechargeable Li-ion battery Charging adapter ModelQLC181000CU-A1000-CCC Input:100-240V 50/60Hz Output:5V 1000mA | |
|---------------|--|--|
| Test voltage: | DC 3.7V | |
| Cable: | USB Cable:80cm | |

3.2 Details of E.U.T.

| Bluetooth Version | Bluetooth 4.2 |
|---------------------|--------------------|
| Antenna Gain | 3.51dBi |
| Antenna Type | Ceramic Antenna |
| Channel Spacing | 2MHz |
| Modulation Type | GFSK |
| Number of Channels | 40 |
| Operation Frequency | 2402MHz to 2480MHz |



Report No.: SHEM190401210102

Page: 5 of 7

3.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch

588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China.

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

3.4 Test Facility

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

• CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 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.

• NVLAP (Certificate No. 201034-0)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the National Voluntary Laboratory Accreditation Program(NVLAP). Certificate No. 201034-0.

• FCC -Designation Number: CN5033

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

Designation Number: CN5033. Test Firm Registration Number: 479755.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

IC Registration No.: 8617A-1. CAB identifier: CN0020.

• VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.



Report No.: SHEM190401210102

Page: 6 of 7

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 \leq 50 mm are determined by:

[(max power of channel)/(min test separation distance)]*[$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 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

 $P_{\text{max}} \le 7.5 \cdot D_{\text{min}} / \sqrt{f} = 7.5 \cdot 5 / \sqrt{2.480} = 23.810 \text{mW}$



Report No.: SHEM190401210102

Page: 7 of 7

5 Measurement and Calculation

5.1 Maximum transmit power

The Power Data is based on the RF Test Report SHEM190401210101.

| Test Mode | Test Frequency (MHz) | Output Power (dBm) | Reading Power (mW) |
|-----------|-------------------------|-----------------------|-----------------------|
| | 2402 | -7.09 | 0.20 |
| BLE | 2442 | -5.79 | 0.26 |
| | 2480 | -5.45 | 0.29 |

5.2 RF Exposure Calculation

The Max Conducted Peak Output Power is 0.29mW. The best case gain of the antenna is 3.51dBi.

3.51dBi logarithmic terms convert to numeric result is nearly 2.24

According to the formula. calculate the EIRP test result:

EIRP= P x G = $0.29 \text{ mW} \times 2.24 = 0.65 \text{mW} < 23.810 \text{mW}$

So the SAR report is not required.

-- End of the Report--