



REPORT No. : SZ16010009S01

RF EXPOSURE EVALUATION REPORT

APPLICANT : Shenzhen Medica Technology Development Co., Ltd

PRODUCT NAME : RestOn Sleep Tracker

MODEL NAME : Z200

TRADE NAME : Sleepace

BRAND NAME : Sleepace

FCC ID : 2ADIOZ200

STANDARD(S) : 47CFR 2.1093
KDB 447498 D01 General RF Exposure Guidance
v06

ISSUE DATE : 2016-06-17



SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

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MORLAB GROUP

FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555

Fax: 86-755-36698525

[Http://www.morlab.com](http://www.morlab.com)

E-mail: service@morlab.cn



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Change History		
Issue	Date	Reason for change
1.0	2016-06-17	First edition

**TEST REPORT DECLARATION**

Applicant	Shenzhen Medica Technology Development Co., Ltd
Applicant Address	2F Building A, Tongfang Information Harbor, No. 11, East Langshan Road, Nanshan District, Shenzhen, P.R. China
Manufacturer	Shenzhen Medica Technology Development Co., Ltd
Manufacturer Address	2F Building A, Tongfang Information Harbor, No. 11, East Langshan Road, Nanshan District, Shenzhen, P.R. China
Product Name	RestOn Sleep Tracker
Model Name	Z200
Brand Name	Sleepace
HW Version	1.0
SW Version	2.1.11
Test Standards	47CFR 2.1093; KDB 447498 D01 General RF Exposure Guidance v06
Issue Date	2016-06-17
SAR Evaluation	Not Required

Tested by : Chen Shengkui
Chen Shengkui

Reviewed by : Liu Jun
Liu Jun

Approved by : Zeng Dexin
Zeng Dexin



1. TECHNICAL INFORMATION

Note: the following data is based on the information by the applicant.

1.1. Identification of Applicant

Company Name:	Shenzhen Medica Technology Development Co., Ltd
Address:	2F Building A, Tongfang Information Harbor, No. 11, East Langshan Road, Nanshan District, Shenzhen, P.R. China

1.2. Identification of Manufacturer

Company Name:	Shenzhen Medica Technology Development Co., Ltd
Address:	2F Building A, Tongfang Information Harbor, No. 11, East Langshan Road, Nanshan District, Shenzhen, P.R. China

1.3. Equipment Under Test (EUT)

Model Name:	Z200
Trade Name:	Sleepace
Brand Name:	Sleepace
Hardware Version:	1.0
Software Version:	2.1.11
Frequency Bands:	Bluetooth 4.0:2402-2480MHz;
Modulation Mode:	Bluetooth 4.0: GFSK;
Antenna type:	Fixed Internal Antenna
Development Stage:	Identical prototype

1.3.1. Photographs of the EUT

1. EUT front view



2. EUT rear view





1.3.2. Identification of all used EUT

The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

EUT Identity	Hardware Version	Software Version
1#	1.0	2.1.11

1.4. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	47 CFR§2.1093	Radiofrequency Radiation Exposure Evaluation: portable devices
2	KDB 447498 D01v06	General RF Exposure Guidance



2. DEVICE CATEGORY AND RF EXPOSURE LIMIT

Per user manual, this device is a RestOn Sleep Tracker. Based on 47CFR 2.1093, this device belongs to portable device category with General Population/Uncontrolled exposure.

Portable Devices:

47CFR 2.1093(b)

For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

GENERAL POPULATION / UNCONTROLLED EXPOSURE

47CFR 2.1093(d) (2)

Limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and spatial peak SAR not exceeding 1.6 W/kg as averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the hands, wrists, feet and ankles where the spatial peak SAR shall not exceed 4 W/kg, as averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). General Population/Uncontrolled limits apply when the general public may be exposed, or when persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or do not exercise control over their exposure. Warning labels placed on consumer devices such as cellular telephones will not be sufficient reason to allow these devices to be evaluated subject to limits for occupational/controlled exposure in paragraph (d)(1) of this section.



3. MEASUREMENT OF CONDUCTED PEAK OUTPUT POWER

1. Bluetooth Average output power

Band	Channel	Frequency (MHz)	Output Power(dBm)
			GFSK
BT	0	2402	-7.05
	19	2440	-6.24
	39	2480	-5.87

4. RF EXPOSURE EVALUATION

The device only incorporates a Bluetooth transmitter, so standalone SAR evaluation is required for Bluetooth and simultaneous SAR is not required.

Standalone transmission SAR evaluation

According to KDB 447498 section 4.3.1, the 1-g SAR test exclusion thresholds at test separation

Distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$

The maximum tune-up limit power is **0.28mW @ 2.480GHz**

When RestOn Sleep Tracker is close to the head, BT antenna spacing 0mm from body, so use **5mm** as the most conservative minimum test separation distance,

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = \mathbf{0.09} \leq 3.0$

So SAR evaluation is not required for this device.



ANNEX A GENERAL INFORMATION

1. Identification of the Responsible Testing Laboratory

Company Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Department:	Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, Guangdong Province, P. R. China
Responsible Test Lab Manager:	Mr. Su Feng
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, Guangdong Province, P. R. China

***** END OF REPORT *****