

RF EXPOSURE **EVALUATION REPORT**

APPLICANT

Shangda (Beijing) Medical Technologies, LLC.

PRODUCT NAME

Bluetooth devices

MODEL NAME

NG01

TRADE NAME

NEO-GAIT

BRAND NAME

NEO-GAIT

FCC ID

2AGBB-NEOG

47CFR 2.1093

STANDARD(S)

447498 s General RF Exposure

ISSUE DATE

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
Back 66-755-36698525
E-mail: service@morlab.cn



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		Change History	
Issue Date Reason for change			
1.0	2015-11-05	First edition	
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TEST REPORT DECLARATION

Applicant	Shangda (Beijing) Medical Technologies, LLC.	
Applicant Address	Floor 1 Block 2 NO.103 BEIQINGLU .Haidian District, Beijing	
Manufacturer	Shangda (Beijing) Medical Technologies, LLC.	
Manufacturer Address	Floor 1 Block 2 NO.103 BEIQINGLU .Haidian District, Beijing	
Product Name	Bluetooth devices	
Model Name	NG01	
Brand Name	NEO-GAIT	
HW Version	0.4	
SW Version	0.2.0	
Test Standards	47CFR 2.1093; KDB 447498 D01 General RF Exposure Guidance v05r02	
Issue Date	2015-11-05	
SAR Evaluation	Not Required	

Tested by	: Liu Jun	, Ó
and the same	Liu Jun	
Reviewed by	: Zhu Zhan	,0 ¹⁹
A STATE OF THE STA	Zhu Zhan	
Approved by	: Zene Devin	
	Zeng Dexin	



1. TECHNICAL INFORMATION

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

1.1. Identification of Applicant

Company Name:	Shangda (Beijing) Medical Technologies, LLC.		
Address:	Floor 1 Block 2 NO.103 BEIQINGLU .Haidian District, Beijing		

1.2. Identification of Manufacturer

Company Name:	Shangda (Beijing) Medical Technologies, LLC.	
Address:	Floor 1 Block 2 NO.103 BEIQINGLU .Haidian District, Beijing	

1.3. Equipment Under Test (EUT)

Model Name:	NG01
Trade Name:	NEO-GAIT
Brand Name:	NEO-GAIT
Hardware Version:	0.4
Software Version:	0.2.0
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 full view with accessories



2. EUT front 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#	0.4	0.2.0

1.4. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1 OPLAE	47 CFR§2.1093	Radiofrequency Radiation Exposure Evaluation: portable devices
2	KDB 447498 D01v05r02	General RF Exposure Guidance



2. DEVICE CATEGORY AND RF EXPOSURE LIMIT

Per user manual, this device is a Bluetooth foot band. 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	Output Power(dBm)
	(MHz)	(MHz)	GFSK
QLAB	0	2402	-1.22
ВТ	19	2440	-2.37
LAB JOR	39	2480	-3.27

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:

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

The maximum tune-up limit power is **0.79mW** @ **2.402GHz**

When Bluetooth band is worn on the foot, BT antenna spacing 0mm from body, so use **5mm** as the most conservative minimum test separation distance,

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]·[$\sqrt{f(GHz)}$] =**0.24** \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

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