

RF EXPOSURE **EVALUATION REPORT**

APPLICANT TERRAILLON SAS

PRODUCT NAME Digital body scale

MODEL NAME **R-LINK**

TRADE NAME N/A

N/A **BRAND NAME**

FCC ID 2AM6B-13937

47CFR 2.1093

KDB 447498 D01 General RF Exposure STANDARD(S)

Guidance v06

ISSUE DATE 2017-09-14

SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

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Change History		
Issue	Date	Reason for change
1.0	2017-09-14	First edition



TEST REPORT DECLARATION

Applicant	TERRAILLON SAS		
Applicant Address	1 rue Ernest Gouin CS50001, croissy Sur Seine . France		
Manufacturer	Xinyu Electronic Co.,Ltd		
Manufacturer Address	Number 42, CuiCheng Road, Cuiheng New District, Zhongshan, Guangdong, PRC		
Product Name	Digital body scale		
Model Name	R-LINK		
Brand Name	N/A		
HW Version	N/A		
SW Version	N/A		
Test Standards	47CFR 2.1093; KDB 447498 D01 General RF Exposure Guidance v06		
Issue Date	2017-09-13		
SAR Evaluation	Not Required		

Tested by	:	Peng Funei
·		Peng Fuwei (Test engineer)
Approved by	:	Peng Hu.
•		Peng Huarui (Supervisor)





1. TECHNICAL INFORMATION

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

1.1. Identification of Applicant

Company Name:	TERRAILLON SAS
Address:	1 rue Ernest Gouin CS50001, croissy Sur Seine . France

1.2. Identification of Manufacturer

Company Name:	Xinyu Electronic Co.,Ltd	
Address:	Number 42, CuiCheng Road, Cuiheng New District, Zhongshan, Guangdong,	
	PRC	

1.3. Equipment Under Test (EUT)

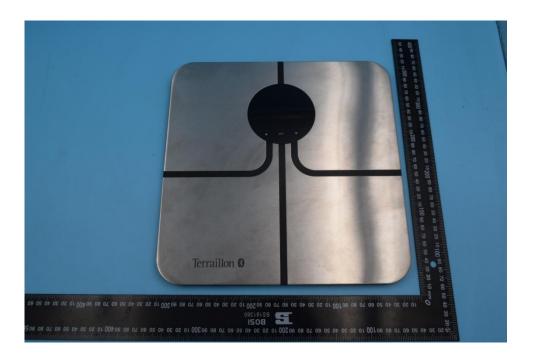
Model Name:	R-LINK
Trade Name:	N/A
Brand Name:	N/A
Hardware Version:	N/A
Software Version:	N/A
Frequency Bands:	Bluetooth 4.0:2402-2480MHz;
Modulation Mode:	Bluetooth 4.0: GFSK;
Antenna type:	PCB Antenna



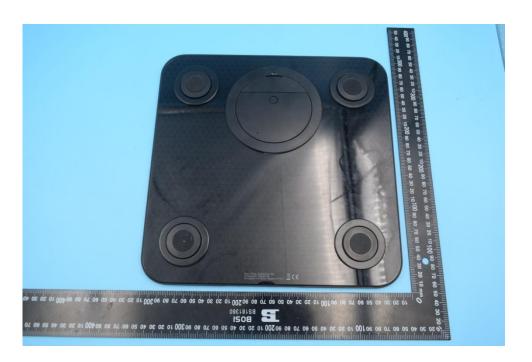


1.3.1. Photographs of the EUT

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#	N/A	N/A

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 Digital body scale. 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
	0	2402	-2.57
BT	19	2440	-3.08
	39	2480	-3.96



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, mW)/(min. test separation distance, mm)]·[$\sqrt{f(GHz)}$] ≤ 3.0

The maximum tune-up limit power is **0.553mW** @ **2.402GHz**

When Digital body scale is used close to the human body, so use 5mm as the most conservative minimum test separation distance,

[(max. power of channel, mW)/(min. test separation distance, mm)]·[$\sqrt{f(GHz)}$] =0.17 \leq 3.0

So SAR evaluation is not required for this device.



ANNEX A GENERAL INFORMATION

1. Identification of the Responsible Testing Laboratory

Traditation of the Responsible resulting 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
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**** END OF REPORT ****

