



RF EXPOSURE EVALUATION REPORT

APPLICANT : Shenzhen Dika Na'er E-Commerce Co., Ltd
PRODUCT NAME : GPS sport Smart Watch
MODEL NAME : DI08
BRAND NAME : Diggro
FCC ID : 2AOKN-DI08
STANDARD(S) : 47CFR 2.1093
KDB 447498
ISSUE DATE : 2018-01-02

Tested by: Peng Fuwei
Peng Fuwei (Test engineer)

Approved by: Peng Huarui
Peng Huarui (Supervisor)

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Change History		
Issue	Date	Reason for change
1.0	2018-01-02	First edition



1. Technical Information

Note: Provide by manufacturer.

1.1 Applicant and Manufacturer Information

Applicant:	Shenzhen Dika Na'er E-Commerce Co., Ltd
Applicant Address:	ROOM 1907-38-85, GUANGYIN BUILDING, NO., 38, FUTIAN SOUTH ROAD, FUTIAN DIST, SHENZHEN, Guangdong, China
Manufacturer:	Shenzhen Dika Na'er E-Commerce Co., Ltd
Manufacturer Address:	ROOM 1907-38-85, GUANGYIN BUILDING, NO., 38, FUTIAN SOUTH ROAD, FUTIAN DIST, SHENZHEN, Guangdong, China

1.2 Equipment Under Test (EUT) Description

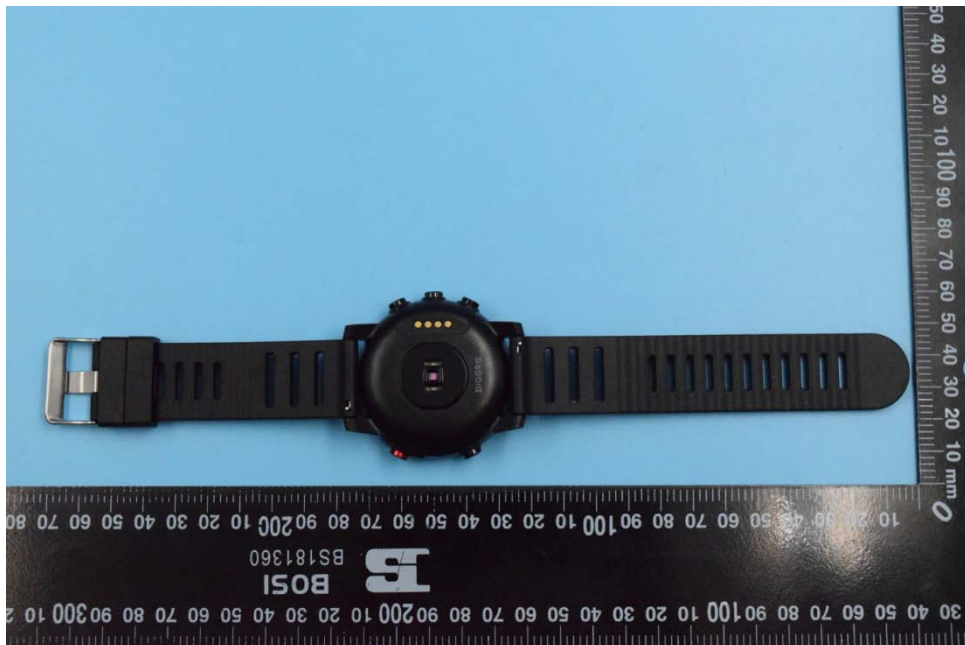
EUT Type:	GPS sport Smart Watch
Hardware Version:	C11 MB V2.0
Software Version:	DI08_V10_171207
Frequency Bands:	Bluetooth 4.0:2402MHz -2480MHz;
Modulation Mode:	Bluetooth 4.0: GFSK;
Antenna type:	FPC Antenna

1.3 Photographs of the EUT

1. EUT front view



2. EUT rear view





1.3.1 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#	C11 MB V2.0	DI08_V10_171207

1.4 Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1	47 CFR§2.1093	Radio frequency 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 GPS sport Smart Watch. 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 Peak output power

Band	Channel	Frequency (MHz)	Antenna Gain (dBi)	Output Power(dBm)	EIRP (dBm)
				GFSK	
BLE	0	2402	0	-6.13	-6.13
	19	2440	0	-5.99	-5.99
	39	2480	0	-5.96	-5.96

Note: Antenna Gain is 0dBi.

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 max peak output power is **0.25mW @ 2.480GHz**

When Bluetooth Watch is used on the hand, so use **5mm** as the most conservative minimum test separation distance,

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = 0.08 \leq 3.0$$

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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