

RF EXPOSURE **EVALUATION REPORT**

APPLICANT

Chanco Electronics Factory

PRODUCT NAME

Bluetooth Headset

MODEL NAME

CK-051, KBH770, BTH-2000, PLR940, E-EPA103,

TRADE NAME

N/A

BRAND NAME

N/A

FCC ID

2AE57CAIHS007

47CFR 2.1093

STANDARD(S)

General RF

ISSUE DATE

4. System C

SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

Certification

PLOBAL SERVICE

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DIRECTORY

TEST REPORT DECLARATION	3
1. TECHNICAL INFORMATION	4
1.1. IDENTIFICATION OF APPLICANT	4
1.2. Identification of Manufacturer·····	4
1.3. EQUIPMENT UNDER TEST (EUT) ····································	4
1.3.1. PHOTOGRAPHS OF THE EUT·······	5
1.3.2. IDENTIFICATION OF ALL USED EUT······	6
1.4. Applied Reference Documents ······	6
2.DEVICE CATEGORY AND RF EXPOSURE LIMIT	7
3.MEASUREMENT OF CONDUCTED PEAK OUTPUT POWER······	8
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4. RF EXPOSURE EVALUATION ······	8
ANNEX A GENERAL INFORMATION······	9

		Change History
Issue	Date	Reason for change
1.0	2015-07-21	First edition
2.0	2015-08-03	Second edition



TEST REPORT DECLARATION

Applicant	Chanco Electronics Factory	
Applicant Address	sha jin nan street 27 Changan town, dongguan city, guangdong province	
Manufacturer	Chanco Electronics Factory	
Manufacturer Address	sha jin nan street 27 Changan town, dongguan city, guangdong province	
Product Name	Bluetooth Headset	
Model Name	CK-051,KBH770, BTH-2000,PLR940,E-EPA103,	
Brand Name	N/A	
HW Version	VER1.0	
SW Version	VER1.0	
Test Standards	47CFR 2.1093; KDB 447498 D01 General RF Exposure Guidance v05r02	
Issue Date	2015-08-03	
SAR Evaluation	Not Required	

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Reviewed by	\$ <u></u>	Zhu Zhan	o store
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Approved by	10 TE	Zena Dexin	35
		Zeng Dexin	900



1. TECHNICAL INFORMATION

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

1.1. Identification of Applicant

Company Name:	Chanco Elecronics Factory
Address:	sha jin nan street 27 Changan town, dongguan city, guangdong
IIIORE INC	province

1.2. Identification of Manufacturer

Company Name:	Chanco Elecconics Factory	
Address:	sha jin nan street 27 Changan town, dongguan city, guangdong	
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1.3. Equipment Under Test (EUT)

Model Name:	CK-051,KBH770, BTH-2000,PLR940,E-EPA103,
Trade Name:	N/A
Brand Name:	N/A
Hardware Version:	VER1.0
Software Version:	VER1.0
Frequency Bands:	Bluetooth 2.1with EDR:2402-2480MHz;
Modulation Mode:	Bluetooth: GFSK/π/4-DQPSK/8-DPSK;
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#	VER1.0	VER1.0

1.4. Applied Reference Documents

Leading reference documents for testing:

No.	Identity	Document Title
1 ORLAR	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 Headset. 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. BT+EDR 2.1 peak output power

Band	Channel	Frequency	Output Power(dBm)		
Danu	Chamilei	(MHz)	GFSK	π/4-DQPSK	8-DPSK
W. SLAE	0	2402	-5.00	-5.32	-5.32
ВТ	39	2441	-5.13	-5.06	-5.16
LAB OR	78	2480	-6.30	-6.32	-6.27

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 \leq 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 0.316mW @ 2.402GHz

When Bluetooth Watch is worn on the hand, 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)]·[$\sqrt{f(GHz)}$] =**0.098** \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

3. Accreditation Certificate

Accredited Testing Laboratory: CNAS No. L3572

(Shenzhen Morlab Communications Technology Co., Ltd.)

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

