











FCC SAR Exemption Evaluation Report

Product Name: TalkBand

Model: GRU-B09

Report No.: SYBH(Z-SAR)002072017-2

FCC ID: QISGRU-B09

	APPROVED	PREPARED		
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DATE	2017-07-04	2017-07-04		

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*** * Notice * ***

- 1. The laboratory has passed the accreditation by China National Accreditation Service for Conformity Assessment (CNAS). The accreditation number is L0310.
- 2. The laboratory has passed the accreditation by The American Association for Laboratory Accreditation (A2LA). The accreditation number is 2174.01 & 2174.02 & 2174.03
- 3. The laboratory (Reliability Lab of Huawei Technologies Co., Ltd) is also named as "Global Compliance and Testing Center of Huawei Technologies Co., Ltd", the both names have coexisted since 2009.
- 4. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
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$\mbox{\em \%}$ $\mbox{\em Modified History}$ $\mbox{\em \%}$

REV.	DESCRIPTION	ISSUED DATE	REMARK
v1.0	Initial Test Report Release	2017-07-04	Zhang Chao



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1 EUT Description

Device Information:					
Product Name :	TalkBand				
Model:	GRU-B09				
FCC ID:	QISGRU-B09				
Device Type :	Portable Device				
Device Phase:	Identical Prototyp	е			
Exposure Category:	Uncontrolled environment/general population				
Hardware Version :	309000119674R4				
Software Version:	2.0.16				
Antenna Type :	Internal Antenna				
Device Operating Configuration	ns:				
Supporting Mode(s)	ВТ				
Test Modulation	GFSK				
Operating Frequency Bango(s)	Band	Tx (MHz)	Rx (MHz)		
Operating Frequency Range(s)	BT	2400-2483.5	2400-2483.5		

1.1 General Description

GRU-B09 is a TalkBand based on Android wear OS; it can be communicated with mobile phone via Bluetooth. It supports Bluetooth. GRU-B09 also support MP3 player function, alarm clock, intelligent user can judge the state of motion, supports IP55&IP57 dustproof and waterproof level.

Battery information:

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Name	Manufacture	Models	Description
Li-polymer Battery	DESAY		Lithium ion polymer rechargeable cell
	COSLIGHT	HB421422EA C	Capacity:91mA/h Rated Voltage:3.8V Cutoff Voltage:4.4V
	LISHEN		DischargeVoltage:3.0V Size: 22.0mm*13.6mm*4.27mm



2 Test specification(s)

ANSI Std C95.1-1992	Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.(IEEE Std C95.1-1991)
KDB 447498 D01	General RF Exposure Guidance v06

3 Testing laboratory

Test Site	The Reliability Laboratory of Huawei Technologies Co., Ltd.	
Test Location	Section G1, Huawei Base Bantian, Longgang District, Shenzhen 518129, P.R. China	
Telephone	+86 755 28780808	
Fax	+86 755 89652518	
State of accreditation	The Test laboratory (area of testing) is accredited according to ISO/IEC 17025. CNAS Registration number: L0310 A2LA TESTING CERT #2174.01& 2174.02 & 2174.03	

4 Applicant and Manufacturer

Company Name	HUAWEI TECHNOLOGIES CO., LTD
Addross	Administration Building, Headquarters of Huawei Technologies
Address	Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

5 Application details

Start Date of test	2017-07-04
End Date of test	2017-07-04

6 Ambient Condition

Ambient temperature	20°C – 24°C
Relative Humidity	30% – 70%



7 RF Exposure Limits

Human Exposure	Uncontrolled Environment	Controlled Environment		
	General Population	Occupational		
Spatial Peak SAR*	1.60 mW/g	8.00 mW/g		
(Brain/Body/Arms/Legs)	1.00 11147/9	0.00 mv/g		
Spatial Average SAR**	0.08 mW/g	0.40 mW/g		
(Whole Body)	0.00 mw/g	0. 4 0 mv/g		
Spatial Peak SAR***	4.00 mW/g	20.00 mW/g		
(Hands/Feet/Ankle/Wrist)	4.00 mw/g	20.00 11100/9		

Table 1: RF exposure limits

The limit applied in this test report is shown in **bold** letters.

Notes:

- * The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time
- ** The Spatial Average value of the SAR averaged over the whole body.
- *** The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation.



8 SAR Exemption Evaluation

Per FCC KDB 447498D01, the 1-g SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz 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 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Exposure Condition	Band	P _{max} (dBm)*	P _{max} (mW)	Distance (mm)	f (GHz)	Calculation Result	Exclusion threshold	SAR evaluation
Head	ВТ	9.00	7.94	<5	2.48	2.5	3.0	Not required
10-g extremity	ВТ	9.00	7.94	<5	2.48	2.5	7.50	Not required

Table 2: Standalone SAR test exclusion for BT Note:

- 1)*- Maximum possible output power (including tune-up tolerance) declared by manufacturer
- 2) The test separation distance for Head and Limbs exposures are \leq 5 mm, so a distance of 5 mm is applied to determine SAR test exclusion per FCC KDB 447498D01.

According to the table above, the device can meet the SAR test exclusion thresholds requirement of FCC KDB 447498 D01 and SAR evaluation is not required.

End