Shenzhen Global Test Service Co.,Ltd.



1F, Building No. 13A, Zhonghaixin Science and Technology City, No.12,6 Road, Ganli Industrial Park, Buji Street, Longgang District, Shenzhen, Guangdong

RF Exposure evaluation

Report Reference No:	GTSR16080102-02
FCC ID:	2AG5E-BM-108

Compiled by

(position+printed name+signature)..: File administrators Jimmy Wang

Supervised by

(position+printed name+signature)..: Test Engineer Peter Xiao

Approved by

(position+printed name+signature)..: Manager Sam Wang

Date of issue...... Sep.06, 2016

Representative Laboratory Name.: Shenzhen Global Test Service Co.,Ltd.

Shenzhen, Guangdong

Applicant's name...... HaiShiTeng (Shenzhen) Co.,Ltd.

park, No. 26 Baili Road , Xialilang Community, Longgang

District, Shenzhen, Guangdong province

Test specification:

TRF Originator...... Shenzhen Global Test Service Co.,Ltd.

Master TRF...... Dated 2014-12

Shenzhen Global Test Service Co., Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen Global Test Service Co.,Ltd. is acknowledged as copyright owner and source of the material. Shenzhen Global Test Service Co.,Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test item description Baby monitor

Trade Mark: /

Manufacturer HaiShiTeng (Shenzhen) Co.,Ltd.

Model/Type reference...... BM-108

Listed Models /

Exposure category...... General population/uncontrolled environment

EUT Type Production Unit Hardware Version TX_MAIN_V02

Software Version S_V1.0

Output:DC 5V,1A

Result..... PASS

Report No.: GTSR16080102-02 Page 2 of 7

TEST REPORT

Test Report No. :	GTSR16080102-02	Sep.06, 2016	
	G13K10000102-02	Date of issue	

Equipment under Test : Baby monitor

Model /Type : BM-108

Listed Models : /

Address

Applicant : HaiShiTeng (Shenzhen) Co.,Ltd.

: No 306, Building E, Qifeng Digital Science and Technology

Address park, No. 26 Baili Road , Xialilang Community, Longgang

District, Shenzhen, Guangdong province

Manufacturer : HaiShiTeng (Shenzhen) Co.,Ltd.

: No 306, Building E, Qifeng Digital Science and Technology

park, No. 26 Baili Road , Xialilang Community, Longgang

District, Shenzhen, Guangdong province

Test Result:	PASS
--------------	------

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Contents

Page 3 of 7

<u> </u>	SUMMART	4
<u>.</u>		
1.1.	EUT configuration	4
1.2.	Note	4
<u>2.</u>	TEST ENVIRONMENT	5
<u>.</u>		
2.1.	Address of the test laboratory	5
2.2.	Test Facility	5
2.3.	Environmental conditions	5
2.4.	Statement of the measurement uncertainty	5
<u>3.</u>	METHOD OF MEASUREMENT	6
3.1.	Applicable Standard	6
3.2.	Limit	6
3.3.	Conducted Power Results	6
3.4.	MPE Calculation Method	7
<u>4 .</u>	EVALUATION RESULT	7
4.1.	Standalone MPE	7
5.	CONCLUSION	7
<u> </u>	001102001011	

Report No.: GTSR16080102-02 Page 4 of 7

1. <u>SUMMARY</u>

1.1. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer
- $\ensuremath{\bigcirc}$ supplied by the lab

0	/	M/N:	/
		Manufacturer:	/

1.2. Note

	Test Standards	Reference Report
2.4GHz	FCC Part 15 Subpart C	GTSR16080102-01
RF Exposure evaluation	FCC Per 47CFR §2.1091	GTSR16080102-02

Report No.: GTSR16080102-02 Page 5 of 7

2. TEST ENVIRONMENT

2.1. Address of the test laboratory

Shenzhen Global Test Service Co.,Ltd.

1F, Building No. 13A, Zhonghaixin Science and Technology City, No.12,6 Road, Ganli Industrial Park, Buji Street, Longgang District, Shenzhen, Guangdong

2.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 964637

Shenzhen Global Test Service Co.,Ltd EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 964637, Jul 24, 2015.

CNAS-Lab Code: L8169

Shenzhen Global Test Service Co.,Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories. Date of Registration: Dec. 11, 2015. Valid time is until Dec. 10, 2018.

2.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C
Humidity:	30-60 %
Atmospheric pressure:	950-1050mbar

2.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the Shenzhen Global Test Service Co.,Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen GTS laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Report No.: GTSR16080102-02 Page 6 of 7

3. Method of measurement

3.1. Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated.

3.2. Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm²)	Averaging Time (minute)
	Limits for Occ	cupational/Control	led Exposure	
0.3 - 3.0 3.0 - 30 30 - 300 300 - 1500 1500 - 100,000	614 1842/f 61.4 /	1.63 4.89/f 0.163 /	(100) * (900/f²)* 1.0 f/300 5	6 6 6 6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density (mW/cm²)	Averaging Time (minute)
	Limits for Occ	cupational/Control	led Exposure	
0.3 - 3.0 3.0 - 30 30 - 300 300 - 1500 1500 - 100,000	614 824/f 27.5 /	1.63 2.19/f 0.073 /	(100) * (180/f ²)* 0.2 f/1500 1.0	30 30 30 30 30 30

F=frequency in MHz

3.3. Conducted Power Results

Туре	Channel	Frequency (MHz)	Worst case Data rate	Output power PK (dBm)	Output power AV (dBm)
	0	2410.875	1Mbps	18.52	15.42
GFSK	9	2441.250	1Mbps	18.01	16.14
	18	2471.625	1Mbps	18.87	16.65

Manufacturing tolerance

GFSK(Average)						
Frequency 2410.875 2441.250 2471.625						
Target (dBm)	16	16	16			
Tolerance ±(dB)	1.0	1.0	1.0			

^{*=}Plane-wave equivalent power density

Report No.: GTSR16080102-02 Page 7 of 7

3.4. MPE Calculation Method

Predication of MPE limit at a given distance Equation from page 18 of OET Bulletin 65, Edition 97-01

S=PG/4πR²

Where: S=power density P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

As declared by the Applicant, the EUT transmits with the maximum soure-baed Duty Cycle of 100%-see the User manual, and the EUT is a wireless device used in a mobile application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum mobile separation distance, r =20cm, as well as the gain of the used antenna, and the power drift from Turn-up Procedure provide by manufacturer as following states, the RF power density can be obtained.

4. Evaluation Result

4.1. Standalone MPE

	Minimum Separation	•	t Power Procedure)	Antenna Gain	Power Density	Power Density	Test
	Distance (cm)	dBm	mW	(Numeric)	At 20 cm (mW/cm ²)	Limit (mW/cm²)	Results
2.4G	20.00	17	50.119	1.159	0.01156	1.0000	PASS

5. Conclusion

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

 .End of	Repoi	rt
 .End of	Repoi	rt