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TEST REPORT

Application No.: HKEM2104000412AT

Applicant: Meizhou Guo Wei Electronics Co., Ltd.

Address of Applicant: ADI Section, Economic Development Area, Dongsheng Industrial District,

Meizhou, Guangdong, China

Equipment Under Test (EUT):

EUT Name: Video baby monitor

Model No.: VM75BU

Additional Model: Please refer to section 2 of this report which indicates which item was

actually tested and which were electrically identical.

FCC ID: 2ARRB-VM75BU IC: 20353-VM75BU

HVIN: VM75BU

47 CFR Part 1.1307; 47 CFR Part 2.1093 Standard(s):

KDB447498D01 General RF Exposure Guidance v06

RSS102 Issue 5 March 2015

2021-05-05 Date of Receipt:

2021-05-06 to 2021-05-14 Date of Test:

Date of Issue: 2021-05-17

Test Result: Pass*



Law Man Kit **EMC Manager**

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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Revision Record							
Version Chapter Date Modifier Remark							
01		2021-05-17		Original			

Authorized for issue by:		
	Zen Xn.	
	Leo Xu /Project Engineer	Date: 2021-05-17
	Law	
	Law Man Kit	
	/Reviewer	Date: 2021-05-17



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2 Test Summary

Radio Spectrum Technical Requirement							
Item	Standard	Method	Requirement	Result			
RF Exposure	47 CFR Part 1.1307, 47 CFR Part 2.1093, KDB 447498 D01	KDB447498D01	KDB447498D01	PASS			
RF Exposure	RSS102 Issue 5	RSS-102 Section 2.5.1	RSS102 Issue 5	PASS			

Declaration of EUT Family Grouping:

None.

Abbreviation:

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.Press: In this whole report Press means Pressure.

N/A: In this whole report not application.



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4 General Information

4.1 Details of E.U.T.

Power supply: Adaptor model: YWK-AD050100-U Input: AC 100-240V, 50/60Hz, 0.3A Output: DC 5V, 1000mA or Adaptor model: BQ05A-0501000-U Input: AC 100-240V, 50/60Hz, Max 300mA Output: DC 5V, 1.0A or Adaptor model: BQ06A-0501000-U Input: AC 100-240V, 50/60Hz, Max 300mA Output: DC 5V, 1.0A or Adaptor model: BQ06A-0501000-U Input: AC 100-240V, 50/60Hz, Max 300mA Output: DC 5V, 1.0A Pre-scan test for RF conducted power were performed on the sample in treport, BQ05A-0501000-U is the worst case and used for fully test. Test voltage: AC 120V Cable: Power Cable: 175cm unshielded 2 wires DC cable Antenna Gain: 2 dBi Antenna Type: Integral antenna Channel Spacing: 3MHz Modulation Type: GFSK Number of Channels: 32 Operation Frequency: Spectrum Spread Technology: Frequency Hopping Spread Spectrum (FHSS) Frequency Hopping Spread Spectrum (FHSS) Frequency Hopping Spread Spectrum (FHSS) Remark: Power level setting was not adjustable and fixed default through	4.1 Details of L.O.1.	
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Frequency List

Channel Number	TX Freq (MHz)	Channel Number	TX Freq (MHz)	Channel Number	TX Freq (MHz)
1	2405	13	2430	25	2458.5
2	2407	14	2433	26	2460.5
3	2409	15	2435	27	2462.5
4	2411	16	2437	28	2467
5	2413	17	2439	29	2469
6	2415	18	2441	30	2471
7	2418	19	2444	31	2473
8	2420	20	2446	32	2475
9	2422	21	2450		
10	2424	22	2452		
11	2426	23	2454		
12	2428	24	2456		

Remark: 1. Operation channel is total 32.

2. Testing Channels are highlighted in **bold**.

4.2 Description of Support Units

The EUT has been tested as an independent unit.



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4.3 Test Location

All tests were performed at:

SGS Hong Kong Limited

Unit 2 and 3, G/F, Block A, Po Lung Centre,

11 Wang Chiu Road, Kowloon Bay, Kowloon, Hong Kong

Tel: +852 2305 2570 Fax: +852 2756 4480

No tests were sub-contracted.

4.4 Test Facility

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

· HOKLAS (Lab Code: 009)

SGS Hong Kong Limited has been accepted by HKAS Executive, on the recommendation of the Accreditation Advisory Board, as a HOKLAS Accredited Laboratory, this laboratory meets the requirements of ISO/IEC 17025:2017 an it has been accredited for performing specific test as listed in the scope of accreditation within the test category of Electrical and Electronic Products.

• IAS Accreditation (Lab Code: TL-817)

SGS Hong Kong Limited has met the requirements of AC89, IAS Accreditation Criteria for Testing Laboratories, and has demonstrated compliance with ISO/IEC Standard 17025:2017, General requirements for the competence of testing and calibration laboratories. This organization is accredited to provide the services specified in the scope of accreditation maintained on the IAS website (www.iasonline.org).

The report must not be used by the client to claim product certification, approval, or endorsement by IAS, NIST, or any agency of the Federal Government.

• FCC Recognized Accredited Test Firm(CAB Registration No.: 514599)

SGS Hong Kong Limited has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: HK0015, Test Firm Registration Number: 514599.

• Industry Canada (Site Registration No.: 26103; CAB Identifier No.: HK0015)

SGS Hong Kong Limited has been recognized by Department of Innovation, Science and Economic Development (ISED) Canada as a wireless testing laboratory. The acceptance letter from the ISED is maintained in our files. CAB Identifier No: HK0015, Site Registration Number: 26103.

4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None



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5 Radio Spectrum Technical Requirement

5.1 RF Exposure

5.1.1 Test Requirement:

CFR 47 Part 1.1310

Limit:

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in Part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)				
	(A) Limits for Occupational/Controlled Exposure							
0.3-3.0	614	1.63	*100	6				
3.0-30	1842/f	4.89/f	*900/f²	6				
30-300	61.4	0.163	1.0	6				
300-1,500			f/300	6				
1,500-100,000			5	6				
	(B) Limits for Genera	al Population/Uncontrolle	d Exposure					
0.3-1.34	614	1.63	*100	30				
1.34-30	824/f	2.19/f	*180/f ²	30				
30-300	27.5	0.073	0.2	30				
300-1,500			f/1500	30				
1,500-100,000			1.0	30				

f = frequency in MHz

According to IEEE C95.3:2002 section 5.5.1.1, The power density S at a point on the axis at a distance d from a transmitting antenna is given by the Friis free-space transmission formula

$$S = \frac{PG}{4\pi d^2}$$

 $S = power density (mW/cm^2)$

P = the net power delivered to the antenna (mW)

G = gain of the antenna in linear scale

d = distance between observation point and center of the radiator (cm)

^{* =} Plane-wave equivalent power density



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5.1.1 IC Radiofrequncy radiation

According to RSS-102 Issue 5, section 2.5.2 Exemption.

RF exposure evaluation is required if the separation distance between the user and the device's radiating element is greater than 20 cm, except when the device operates as follows:

below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);

at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 22.48/f0.5W (adjusted for tune-up tolerance), where f is in MHz;

at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);

at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1.31 x 10-2 f0.6834 W (adjusted for tune-up tolerance), where f is in MHz:

at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).



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5.1.2 EUT RF Exposure Evaluation

Antenna Gain:

The maximum Gain measured in fully anechoic chamber is 1.585 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

For FCC;

FHSS:

Channel	Frequency (MHz)	Conduct power (including Tune-up tolerance) (dBm)	Conduct powe (mW)	Power Density at R = 20 cm (mW/cm2)	Limit	MPE Ratios	Result
Low	2405	17.0	50.119	0.01580	1	0.01580	PASS
Middle	2439	16.1	40.738	0.01284	1	0.01284	PASS
High	2475	14.8	30.200	0.00952	1	0.00952	PASS

For IC:

FHSS:

Channel	Frequency (MHz)	Conduct power (including Tune-up tolerance) (dBm)	E.I.R.P (dBm)	E.I.R.P (W)	Limit (W)	Result
Low	2405	17.0	19.0	0.0794	2.7	PASS
Middle	2439	16.1	18.1	0.0646	2.7	PASS
High	2475	14.8	16.8	0.0479	2.7	PASS

Note: 1. Refer to report No. HKEM210400041202 for EUT test conducted power value. requirement.



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6 Photographs

Remark: Photos refer to Appendix of HKEM2104000412AT.

- End of the Report -