

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: HKEM191000101403

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TEST REPORT

Application No.: HKEM1910001014AT

Applicant: Binatone Electronics International Ltd.

Address of Applicant: Floor 23A, 9Des Voeux Road West, Sheung Wan, Hong Kong

Equipment Under Test (EUT):

EUT Name: 5" Video Baby Monitor

Model No.: COMFORT75, COMFORT75-2, COMFORT75-3, COMFORT75-4,

COMFORT75PU ♣

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

actually tested and which were electrically identical.

FCC ID: VLJ-CF75SPU **IC:** 4522A-CF75SPU

HVIN: CF75SPU

Standard(s): 47 CFR Part 1.1307 (2019)

47 CFR Part 1.1310 (2019) RSS102 Issue 5 March 2015

Date of Receipt: 2019-10-25

Date of Test: 2019-10-25 to 2019-11-07

Date of Issue: 2019-11-13

Test Result: PASS *

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Keny Xu

EMC Laboratory Manager



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2019-11-13		Original			

Authorized for issue by:		
	Vincent Chen	
	Vincent Chen /Project Engineer	
	EvicFu	
	Eric Fu	-
	/Reviewer	



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3 General Information

3.1 Details of E.U.T.

Power supply: AC 120 V, 60 Hz;

Adapter Adaptor 1

AC 100-240V ~ 50/60Hz 150mA to DC 5.0V 1000 mA

Model no: S005BNU0500100

Adaptor 2

AC 100-240V ~ 50/60Hz 150mA to DC 5.0V 1000 mA

Model no: VT05EUS05100

DC supply with internal rechargeable battery

Function Monitoring Device (PU)

Test Voltage AC120 V 60 Hz

Operation Frequency: 2405-2475MHz

Channel Numbers: 16

Channel Separation: ≥ 2MHz

Type of Modulation: Frequency Hopping Spread Spectrum (FHSS)

Sample Type: Indoor
Antenna Type: Dipole
Antenna Gain: 0 dBi

Frequency List

Channel Number	TX Freq (MHz)	Channel Number	TX Freq (MHz)	Channel Number	TX Freq (MHz)
1	2405	12	2428	23	2454
2	2407	13	2430	24	2456
3	2409	14	2433	25	2458.5
4	2411	15	2435	26	2460.5
5	2413	16	2437	27	2462.5
6	2415	17	2439	28	2467
7	2418	18	2441	29	2469
8	2420	19	2444	30	2471



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9	2422	20	2446	31	2473
10	2424	21	2450	32	2475
11	2426	22	2452		

Remark: Testing Channels are highlighted in **bold**.



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3.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

3.3 Test Facility

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

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

· VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

· Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

3.4 Deviation from Standards

None.

3.5 Abnormalities from Standard Conditions

None.



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3.6 Other Information Requested by the Customer

None.

4 RF Exposure Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 FCC Radiofrequncy radiation Limits

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) Lim	its for Occupational	//Controlled Exposu	res		
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	
(B) Limits	for General Populati	on/Uncontrolled Exp	oosure		
0.3–1.34	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30 30	

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4*Pi*R2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



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4.1.2 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 $1.31 \times 10-2 f0.6834 \text{ W}$ (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).

4.1.3 **Test Procedure**

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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4.1.4 EUT RF Exposure Evaluation

Antenna Gain: 0dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

For FCC:

Channel	Frequency (MHz)	Conduct power (including Tune- up tolerance) (dBm)	E.I.R.P (mW)	Power Density at R = 20 cm (mW/cm2)	Limit	MPE Ratios	Result
Low	2405	14.1	25.704	0.00511	1	0.00511	PASS
Middle	2439	13.5	22.387	0.00445	1	0.00445	PASS
High	2475	13.6	22.909	0.00456	1	0.00456	PASS

For IC:

Channel	Frequency (MHz)	Conduct power (including Tune-up tolerance) (dBm)	E.I.R.P (W)	Limit (W)	Result
Low	2405	14.1	0.025	2.7	PASS
Middle	2439	13.5	0.022	2.7	PASS
High	2475	13.6	0.023	2.7	PASS

Note: Refer to report No. HKEM191000101401 or EUT test EIRP value. The distance (5th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

- End of the Report -



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