



Shenzhen Huaxia Testing Technology Co., Ltd

SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD 102A, 102B, Building 2, Shanghenglang New Industrial Zone, Shanghenglang Community, Dalang Street, Longhua District, Shenzhen, Guangdong, People's Republic of China, 518000

Telephone: +86-755-26648640

Fax: +86-755-26648637

Website: www.cqa-cert.com

Report Template Version: V04

Report Template Revision Date: 2018-07-06



中国认可
国际互认
检测
TESTING
CNAS L5785

RF Exposure Evaluation Report

Report No.: CQASZ20260501026E-02
Applicant: Shenzhen KTC Technology Co., Ltd.
Address of Applicant: Northern Wuhe Road, Gangtou, Buji, Longgang, Shenzhen, China
Equipment Under Test (EUT):
Product: Baby Monitor
Model No.: CB05-A1
Test Model No.: CB05-A1
Brand Name: N/A
FCC ID: ROU-CB05A1BU
Standards: 47 CFR Part 1.1307
47 CFR Part 1.1310
KDB447498 D01 General RF Exposure Guidance v06
Date of Receipt: 2026-05-21
Date of Test: 2026-05-21 to 2026-07-07
Date of Issue: 2026-7-14
Test Result: **PASS***

*In the configuration tested, the EUT complied with the standards specified above

Tested By: Lewis Zhou
(Lewis Zhou)

Reviewed By: Timo Lei
(Timo Lei)

Approved By: Jack Ai
(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20260501026E-02	Rev.01	Initial report	2026-7-14

2 Contents

	Page
1 VERSION	2
2 CONTENTS	3
.....	3
3 GENERAL INFORMATION	4
3.1 CLIENT INFORMATION	4
3.2 GENERAL DESCRIPTION OF EUT	4
3.3 GENERAL DESCRIPTION OF 2.4G WIFI CLASSIC	5
4 RF EXPOSURE EVALUATION	6
4.1 RF EXPOSURE COMPLIANCE REQUIREMENT	6
4.1.1 <i>Limits</i>	6
4.1.2 <i>Test Procedure</i>	6
4.2 1.1.3 EUT RF EXPOSURE EVALUATION	7

3 General Information

3.1 Client Information

Applicant:	Shenzhen KTC Technology Co., Ltd.
Address of Applicant:	Northern Wuhe Road, Gangtou,Buji,Longgang, Shenzhen, China
Manufacturer:	Shenzhen KTC Technology Co., Ltd.
Address of Manufacturer:	Northern Wuhe Road, Gangtou,Buji,Longgang, Shenzhen, China
Factory:	Dong Guan Kan Tsang Electroacoustic Technology Co.,Ltd.
Address of Factory:	Room 402, Unit 1, No. 8, Lu Yi 1st Road, Tangxia Town, Dongguan, Guangdong, China

3.2 General Description of EUT

Product Name:	Baby Monitor
Model No.:	CB05-A1
Test Model No.:	CB05-A1
Trade Mark:	N/A
Software Version:	V1.0
Hardware Version:	V1.0
EUT Power Supply:	MODEL:YC-R02051000UU INPUT:100-240V ~ 50/60Hz 0.2A OUTPUT:5V $\overline{=}$ 1.0A
	MODEL:YWK-AD050100-US INPUT:100-240V ~ 50/60Hz 0.2A OUTPUT:5V $\overline{=}$ 1.0A

3.3 General Description of 2.4G WIFI Classic

Operation Frequency:	2412MHz~2462MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20) : OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channel:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels
Channel Separation:	5MHz
Transfer Rate:	IEEE for 802.11b: 1Mbps/2Mbps/5.5Mbps/11Mbps IEEE for 802.11g : 6Mbps/9Mbps/12Mbps/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps IEEE for 802.11n(HT20) : 6.5Mbps/13Mbps/19.5Mbps/26Mbps/39Mbps/52Mbps/58.5Mbps/65Mbps
Sample Type:	☒ Mobile ☐ Portable
Antenna Type:	FPC antenna
Antenna Gain:	3.79dBi

4 RF Exposure Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 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/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled 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
300–1500			f/1500	30
1500–100,000			1.0	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

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

P_d is 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.

4.1.2 Test Procedure

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

4.2 1.1.3 EUT RF Exposure Evaluation

1) For 2.4G WIFI

Antenna Gain: 3.79dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.39 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Measurement Data

802.11b mode				
Test channel	AV Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2412MHz)	13.91	14.0±1	15	31.62
Middle(2437MHz)	14.27	14.5±1	15.5	35.48
Highest(2462MHz)	13.74	14.0±1	15	31.62

The worst case:

Maximum tune-up Power (mW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
35.48	3.79	0.0168938693	1.0	PASS

Note: 1) Refer to report No. CQASZ20260501025-01 for EUT test Max Conducted AV Output Power value.

2) $P_d = (P_{out} * G) / (4 * \pi * R^2) = (35.48 * 2.39) / (4 * 3.1416 * 20^2) = 0.0168938693$