

RF Exposure Evaluation Report

Product : Baby Monitor
Trade mark : VAVA / Miroir/FAKEME/Amyneo/Teble
Model/Type reference : VA-IH006, VA-IH009, TB-IH002, TB-IH003, MR-IH001, MR-IH002
Serial Number : N/A
Report Number : EED32N80972802
FCC ID : 2AFDGVA-IH006V1
Date of Issue : Nov. 22, 2021
: 47 CFR Part 1.1307
Test Standards : 47 CFR Part 1.1310
: KDB447498D01 General RF Exposure Guidance v06
Test result : PASS

Prepared for:

SUNVALLEYTEK INTERNATIONAL. INC
46724 Lakeview Blvd, Fremont, CA 94538

Prepared by:

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2 Version

Version No.	Date	Description
00	Nov. 22, 2021	Original

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4 General Information

4.1 Client Information

Applicant:	SUNVALLEYTEK INTERNATIONAL. INC
Address of Applicant:	46724 Lakeview Blvd, Fremont, CA 94538
Manufacturer:	Shenzhen NearbyExpress Technology Development Co., Ltd.
Address of Manufacturer:	333 Bulong Road, Jialianda Industrial Park, Building 1, Bantian, Longgang District, Shenzhen, China
Factory:	Foshan Shunde Alford Electronics Co. Ltd.
Address of Factory:	XinJiao Industrial Park, Daliang, Shunde Foshan City, Goangdong Province, China

4.2 General Description of EUT

Product Name:	Baby Monitor	
Model No.(EUT):	VA-IH006, VA-IH009, TB-IH002, TB-IH003, MR-IH001, MR-IH002	
Test Mode No:	VA-IH006	
Trade Mark:	VAVA / Miroir/FAKEME/Amyneo/Teble	
EUT SupportsRadiosapplication:	2410MHz - 2477MHz	
Power Supply:	Adapter:(Camera)	Model: VSD0500120VU Input:100-240V~50/60Hz 0.3A Output: 5V  1.2A
	Adapter:(Camera)	Model: TPA211F-06050-US Input:100-240V~50/60Hz 0.2A Output: 5V  1.2A
	Adapter:(Camera)	Model: NBS05B050120VU Input:100-240V~50/60Hz 0.2A Output: 5V  1.2A
Sample Received Date:	Sep. 30, 2021	
Sample tested Date:	Sep. 30, 2021 to Nov. 1, 2019	
Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.		

Operation Frequency:	2410MHz - 2477MHz
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Test Power Grade:	(manufacturer declare)
Test Software of EUT:	N/A(manufacturer declare)
Modulation Type:	GFSK
Number of Channel:	20
Hopping Channel Type:	Adaptive Frequency Hopping systems
Antenna Type and Gain:	External antenna, 0dBi
Test Voltage:	AC 120V,60Hz

Operation Frequency each of channel

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2410MHz	6	2427.5MHz	11	2445MHz	16	2462.5MHz
2	2413.5MHz	7	2431MHz	12	2448.5MHz	17	2466MHz
3	2417MHz	8	2434.5MHz	13	2452MHz	18	2469.5MHz
4	2420.5MHz	9	2438MHz	14	2455.5MHz	19	2473MHz
5	2424MHz	10	2441.5MHz	15	2459MHz	20	2477MHz

4.3 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None.

4.6 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 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.

5.1.2 Test Procedure

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

5.1.3 EUT RF Exposure

For FHSS 2.4G

Antenna Gain: 0dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.0 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

1) For BT Classic

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2410MHz)	4.91	4.5±0.5	5	3.162
Middle(2441.5MHz)	4.82	4.5±0.5	5	3.162
Highest(2477MHz)	3.89	3.5±0.5	4	2.512

The worst case:

Maximum tune-up Power (mW)	Antenna Gain (dBi)	Power Density at R = 20 cm (mW/cm ²)	Limit	Result
3.162	0	0.0006	1.0	PASS

Note: 1) Refer to report No. EED32N80972801 for EUT test Max Conducted Peak Output Power value.

2) $P_d = (P_{out} * G) / (4 * \pi * R^2) = (1 * 3.162) / (4 * 3.1416 * 20^2) = 0.0006$

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32N80972801 for EUT external and internal photos.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

*** End of Report ***