

# RF Exposure Evaluation Report

**Product** : Baby Monitor  
**Trade mark** : VAVA  
**Model/Type reference** : VA-IH006BU  
**Serial Number** : N/A  
**Report Number** : EED32L00047502  
**FCC ID** : 2AFDGVA-IH006A  
**Date of Issue** : Jul. 08, 2019  
**Test Standards** : 47 CFR Part 1.1307  
47 CFR Part 1.1310  
KDB447498D01v06  
**Test result** : PASS

Prepared for:

**SUNVALLEYTEK INTERNATIONAL. INC**  
46724 lakeview Blvd, Fremont, CA 94538

Prepared by:

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Jul. 08, 2019

Check No: 3336847766



## 2 Version

Version No.	Date	Description
00	Jul. 08, 2019	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 Nearby Express Technology Development Company Ltd.
Address of Manufacturer:	333 Bulong Road, jialianda Industrial Park, Building 1, Bantain, Longgang District, Shenzhen, China
Factory:	Foshan Shunde Alford Electronics Co., Ltd
Address of Factory:	Xinjiao Industrial Park, Daliang, Shunde Foshan City, Guangdong Province, China

### 4.2 General Description of EUT

Product Name:	Baby Monitor
Model No.(EUT):	VA-IH006BU
Trade Mark:	VAVA
EUT Supports Radios application	2410MHz - 2477MHz

### 4.3 Product Specification subjective to this standard

Frequency Range:	2410MHz; 2441.5MHz; 2477MHz	
Modulation Type:	GFSK	
Number of Channels:	20	
Test Power Grade:	N/A	
Test Software of EUT:	N/A	
Antenna Type:	External antenna	
Antenna Gain:	0dBi	
Power Supply:	AC adapter	Model: VSD0500120VU Input:100-240V~50/60Hz 0.3A Output: 5V  1.2A
Max Conducted Peak Output Power:	6.888dBm The Max Conducted Peak Output Power data refer to the report EED32L00047501	
Sample Received Date:	Mar. 11, 2019	
Sample tested Date:	Mar. 11, 2019 to Jul. 03, 2019	
The tested sample(s) and the sample information are provided by the client.		

#### **4.4 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

#### **4.5 Deviation from Standards**

None.

#### **4.6 Abnormalities from Standard Conditions**

None.

#### **4.7 Other Information Requested by the Customer**

None.

## 5 RF Exposure 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 <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3–3.0 .....	614	1.63	*(100)	6
3.0–30 .....	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30–300 .....	61.4	0.163	1.0	6
300–1500 .....	.....	.....	f/300	6
1500–100,000 .....	.....	.....	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3–1.34 .....	614	1.63	*(100)	30
1.34–30 .....	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30–300 .....	27.5	0.073	0.2	30
300–1500 .....	.....	.....	f/1500	30
1500–100,000 .....	.....	.....	1.0	30

A rough estimation of the expected exposure in power flux density on a given point can be made with the following equation:

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

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

R= distance to the centre of radiation of the antenna

EIRP = P\*G

The antenna of the product, under normal use condition is at least 20 cm away from the body of the user.

Warning statement to the user for keeping at least 20cm separation distance and the prohibition of operating to a person has been printed on the user's manual. Therefore, the S of the device is calculated with R=20cm, and if it is below the limit S, then we can conclude the device complies with the rules.

#### 5.1.2 Test Procedure

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

**5.1.3 EUT RF Exposure Evaluation**

**Antenna Gain:** 0dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Frequency (MHz)	Max Conducted Peak Output Power(dBm)	Gain (dBi)	EIRP* (dBm)	EIRP (mW)	R (cm)	S (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
Lowest	2410	6.888	0	6.888	4.88	20	0.001	1.0	Pass

**Note:** Refer to report No. EED32L00047501 for EUT test Max Conducted Peak Output Power value.

## PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32L00047501 for EUT external and internal photos.

\*\*\* End of Report \*\*\*

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