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:

Centre Testing International Group Co., Ltd.
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	Ware Xin		Kevin Yang
Date:	Jul. 08, 2019		Check No: 3336847766

CENTRE TESTING INTERNATIONAL GROUP CO.,LTD. Report Seal

2 Version

Version No.	Date	Description
00	Jul. 08, 2019	Original

3 Contents

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, 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^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

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^2)	Limit (mW/cm^2)	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 ***