FCC ID:	2AFX2VB603-C			
Product name	Digital Video Baby Monitor			
Model number	VB603-C			
	DC 5V From Adapter			
Power supply	Adapter Input: AC 100-240V, 50/60Hz, 0.2A			
	Output: DC 5.0V, 1000mA			
Operation frequency	2415MHz-2460MHz			
Modulation Type	GFSK			
Channel Number	16 channels			
Antenna Type	Internal Antenna			
Antenna Gain	2.0 dBi(Max.)			
Hardware version	/			
Software version	/			
Exposure category	General population/uncontrolled environment			
EUT Type	Production Unit			
Device Type	Mobile Device			

FCC RF Exposure Evaluation

1. Product Information

2. Evaluation Method

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

In accordance with KDB447498D01 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modelled or measured field strengths or power density, is \leq 1.0. The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

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3. Limit

3. 1 Refer Evaluation Method

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

FCC KDB publication 447498 D01 General 1 RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1091: Radiofrequency radiation exposure evaluation: Mobile Devices

3. 2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency	Electric Field	Magnetic Field Power Density		Averaging Time	
Range(MHz)	Strength(V/m)	Strength(A/m)	(mW/cm²)	(minute)	
Limits for Occupational/Controlled Exposure					
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	

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency	Electric Field	Electric Field Magnetic Field Power Der		Averaging Time	
Range(MHz)	Strength(V/m)	Strength(A/m) (mW/cm ²)		(minute)	
Limits for Occupational/Controlled Exposure					
0.3 - 3.0	614	1.63	(100) *	30	
3.0 - 30	824/f	2.19/f	(180/f ²)*	30	
30 - 300	30 – 300 27.5		0.2	30	
300 - 1500	/	/	f/1500	30	
1500 - 100,000	/	/	1.0	30	

F=frequency in MHz

*=Plane-wave equivalent power density

4. MPE Calculation Method

Predication of MPE limit at a given distance Equation from page 18 of OET Bulletin 65, Edition 97-01

 $S=PG/4\pi R^2$

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator R=distance to the center of radiation of the antenna

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5. Antenna Information

ES-D4 can only use antennas certificated as follows provided by manufacturer;

Antenna type and antenna number	Operate frequency band	Maximum antenna gain	Notes
Internal Antenna	2415MHz-2460MHz	2 dBi	Antenna

6. Conducted Power

[2.4G Max Conducted Power]						
Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)			
	1	2415	13.314			
GFSK	6	2436	13.246			
	11	2460	12.695			

7. Measurement Results

2.4G					
GFSK (Peak)					
Channel	Channel 11				
Target (dBm)	13.0	14.0	14.0		
Tolerance ±(dB)	1.0	1.0	1.0		

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8. Evaluation Results

8.1 Standalone MPE Evaluation

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance, r =20cm, as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

2.4G

Band/Mode	f (GHz)	RF output power		Antenna Antenna		MPE	MPE
		dBm	mW	Gain (dBi)	Gain (linear) (mW/cm2)	Limits (mW/cm2)	
GFSK	2.460	15.0	31.6228	0	1.0000	0.0063	1.0000

Remark:

- 1. Output power including turn-up tolerance;
- 2. Output power is burst average power;
- 3. MPE evaluate distance is 20cm from user manual provide by manufacturer;

4. MPE values = $PG/4\pi R^2$

9. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

.....THE END OF REPORT.....