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Maximum Permissible Exposure Evaluation

FCC ID: 2AF2R-60TX

1. Client Information

Applicant	:	Shenzhen Videotimes Technology Co.,Ltd		
Address		701, Building 3, No. 1, Zhenhan Road, Gankeng Community, Jiho Street Office, Longgang District, Shenzhen, China 518000		
Manufacturer		Shenzhen Videotimes Technology Co.,Ltd		
Address	: 701, Building 3, No. 1, Zhenhan Road, Gankeng Community, Jihua Street Office, Longgang District, Shenzhen, China 518000			

2. General Description of EUT

EUT Name	:	2.4GHz Digital Wireless Video Baby Camera			
Models No.		HB6099, HB6099TX, FK9960, FK9960TX, JA2219, JA2219-2, JA2219TX, VT60TR99, VT60TR99-2, VT60TR99TX, BL9035, BL9035TX, OD8035, OD8035TX			
Model Difference		All these models are identical in the same PCB layout and electrical circuit, the only difference is that names.			
Product Description		Operation Frequency: Number of Channel: RF Output Power:	2.4G: 2409.5MHz~2468MHz 40 channels GFSK:17.388dBm		
Power Rating		Antenna Gain: Input: 100-240V~, 50/6	2dBi Monopole Antenna		
Tower Rating		Output: 5V-1A			
Software Version	:	1.0			
Hardware Version	:	1.0			
Connecting I/O Port(S)		Please refer to the User's Manual			
Remark	-	The adapter and antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.			



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MPE Calculations for 2.4G

1. Antenna Gain:

PIFA Antenna:2.0dBi.

2. EUT Operation Condition:

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

3. Exposure Evaluation:

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 the 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

4. Test Result:

Worst Maximum MPE Result								
Mode	N _{TX}	Freq. (MHz)	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]
	1	2409.5	12.158	12±1	13	2.0	20	0.0063
2.4G	1	2439.5	17.388	17±1	18	2.0	20	0.0199
TU		2468	9.8	10±1	11	2.0	20	0.0040

Note

(2) RF Output power specifies that Maximum Conducted Peak Output Power.

⁽¹⁾ N_{TX}= Number of Transmit Antennas



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5. Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW/ cm²)		
300-1,500	F/1500		
1,500-100,000	1.0		

For 2.4G:2409.5~2468 MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as **0.0199** $mW/cm^2 < limit 1mW/cm^2$. So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

Note

For a more detailed features description, please refer to the RF Test Report.

6. Conclusion:

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

----END OF REPORT----