Maximum Permissible Exposure Evaluation

FCC ID: 2AF2R-HB66TX

1. Client Information

Applicant	:	Shenzhen Videotimes Technology Co.,Ltd
Address	:	Room 601, Building B, Union Financial Building, No 1 Shihua Road, Fubao Street, Futian Free Trade Zone, Shenzhen, Guangdong, China.
Manufacturer	:	Shenzhen Videotimes Technology Co.,Ltd
Address	:	Room 601, Building B, Union Financial Building, No 1 Shihua Road, Fubao Street, Futian Free Trade Zone, Shenzhen, Guangdong, China.

2. General Description of EUT

EUT Name	:	2.4GHz Digital Wireless Video Baby Camera	
Models No.	:	HB66TX	
Model Different	:	N/A	
Product Description	:	Operation Frequency:	2403.5MHz~2468MHz
		RF Output Power:	19.52dBm
		Antenna Gain:	2dBi Monopole Antenna
		Modulation Type:	GFSK (2Mbps)
Power Supply	:	DC Voltage Supply from AC/DC Adapter	
Power Rating	:	Adapter 1# (Model:K05S050100U) Input: AC 100-240V~50/60Hz, 0.2A Output: DC 5.0V,1.0A Adapter 2# (Model:CS6E050100FU) Input: AC 100-240V~50/60Hz, 0.2A Output: DC 5.0V,1.0A	
Software Version	:	1.0	
Hardware Version	:	1.0	
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 WIFI

1. Antenna Gain:

Monopole Antenna: 2dBi.

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:

Mode	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]
2403.5	10.27	10±1	11	2	20	0.0040
2439.5	19.52	19±1	20	2	20	0.0315
2468.0	10.34	10±1	11	2	20	0.0040

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/ cm^2)
300-1,500	F/1500
1,500-100,000	1.0

For GFSK:2403.5~2468 MHz
MPE limit S: $1mW/ cm^2$
The MPE is calculated as ***$0.0315mW / cm^2 < limit\ 1mW / cm^2$***. 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.

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