

RF Exposure Evaluation

FCC ID: 2ATUJ-TV-BM308-2MP

1. Client Information

Applicant	:	Shenzhen TRIS VISION Technology Co., Ltd.
Address	:	301 ,Chuangzeshi Factory, NO.81, Xincun, Songyuanxia Community Center, Guanhu Street, Longhua District ,Shenzhen City ,Guangdong Province, P.R. China
Manufacturer	:	Shenzhen TRIS VISION Technology Co., Ltd.
Address	:	301 ,Chuangzeshi Factory, NO.81, Xincun, Songyuanxia Community Center, Guanhu Street, Longhua District ,Shenzhen City ,Guangdong Province, P.R. China

2. General Description of EUT

EUT Name	:	Baby Camera	
Models No.	:	TV-BM308-2MP,TV-BM520-2MP,TV-BM530-2MP,TV-BM228-2MP,T V-BM268-2MP,TV-BM618-2MP,TV-BM338-2MP,TV-BM628-2MP,TV -BM258-2MP,TV-BM638-2MP,TV-BM307-2MP,TV-BM309-2MP,TV- BM218-2MP,TV-BM278-2MP,TV-BM238-2MP,TV-BM248-2MP, Soothe 3-C	
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is model name and Exterior cover for commercial.	
Sample ID	:	TBBJ-20200525-03-1#	
Product Description	:	Operation Frequency:	2412MHz~2462MHz
	:	Modulation Type:	OFDM
Power Rating	:	DC 5V from AC/DC Adapter(SAN-05015): Input: AC 100-240V, 50/60Hz. 0.35A MAX Output: DC 5V, 1.5A.	
Software Version	:	XM530_BMS50X20-WVGA_16M_20200622	
Hardware Version	:	BLK650FX2-153X86-BM V1.02	
Connecting I/O Port(S)	:	Please refer to the User's Manual	
Remark	:	The antenna gain provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.	

Note: More test information about the EUT please refer the RF Test Report.

MPE Calculations for WIFI

1. Antenna Gain:

External Ant:	Model	Frequency Range
	N/A	2400~2483.5MHz 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:

2.4G

Channel frequency (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]	Limit of Power Density (mW/ cm ²) (S)
2412	18.66	18±1	19	2.0	20	0.02505	1
2437	18.23	18±1	19	2.0	20	0.02505	1
2462	17.82	18±1	19	2.0	20	0.02505	1

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 2412MHz~2462MHz

MPE limit S: 1mW/ cm²

The MPE is calculated as $0.02505mW / cm^2 < limit 1mW / cm^2$. 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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