

RF Exposure Evaluation

FCC ID: 2ATUJ-BM5A

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 Monitor	
Models No.	:	BM5A,BM4.3,BM5B,BM5C,BM5D,BM5E,BM7A,BM7B,BM7C ,Soothe 3	
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-20200525-03-2#	
Product Description	:	Operation Frequency:	2412MHz~2462MHz
		Modulation Type:	OFDM
		Antenna Gain:	2dBi Dipole Antenna
Power Rating	:	DC 5V from AC/DC Adapter(SAN-05015): Input: AC 100-240V, 50/60Hz. 0.35A MAX Output: DC 5V, 1.5A. DC 3.8V by 950mAh Li-ion battery	
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.

SAR Test Exclusion Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

- (1) Clause 4.3: General SAR test reduction and exclusion guidance

- Sub clause 4.31: Standalone SAR test exclusion considerations

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance ≤ 5 mm are determined by:

- $$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{\text{(GHz)}}}] \leq 3.0 \text{ for 1-g SAR}$$

- $$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{\text{(GHz)}}}] \leq 7.5.0 \text{ for 10-g SAR}$$

2. Calculation:

Test separation: 5mm						
OFDM Mode						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.412	8.56	8 ± 1	9	7.943	2.467	3.0
2.437	8.45	8 ± 1	9	7.943	2.480	3.0
2.462	8.80	8 ± 1	9	7.943	2.493	3.0

Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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