

RF Exposure Evaluation

FCC ID: 2AWNK-VM300RX

1. Client Information

Applicant	:	Shenzhen Apeman Innovations Technology Co., Ltd.
Address	:	1808, Heng Lu E Times Building, No. 159, North Pingji Road, Hehua Community, Pinghu Street, Longgang District, Shenzhen, Guangdong, CHINA
Manufacturer	:	Shenzhen Apeman Innovations Technology Co., Ltd.
Address	:	1808, Heng Lu E Times Building, No. 159, North Pingji Road, Hehua Community, Pinghu Street, Longgang District, Shenzhen, Guangdong, CHINA

2. General Description of EUT

EUT Name	:	Baby Monitor	
Models No.	:	VM300RX, VM300, VM300S, VM430, VM430S, VM500, VM510, VM550, VM200, VM200S, BM24, BM32, BM24S, BM32S	
Model Different	:	All these models are identical in the same PCB, layout and electrical circuit, The only difference is appearance.	
Product Description	:	Operation Frequency:	2406MHz~2475MHz
		Number of Channel:	2.4G: 24 Channels
		Max Peak Output Power:	8.446dBm
		Antenna Gain:	3dBi Internal Antenna
		Modulation Type:	GFSK (4Mbps)
Power Rating	:	Adapter (TPQ-236A050100UW01) Input: 100-240V~, 50/60Hz, 0.3A Output: DC 5V1A DC 3.7V by 930mAh Li-ion battery	
Software Version	:	VM300-RX-Voger-V1.0	
Hardware Version	:	VM300RX-V01	

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:

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

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

2. Calculation:

Test separation: 5mm

2.4G 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
2.406	8.301	8±1	9	7.943	2.464	3.0
2.442	8.446	8±1	9	7.943	2.482	3.0
2.475	8.079	8±1	9	7.943	2.499	3.0

So the worst RF Exposure Evaluation is calculated as **2.499 < limit 3.0**.

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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