

Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE180597 Page: 1 of 3

# **RF Exposure Evaluation** *FCC ID: 2AWNK-VM300RX*

## 1. Client Information

| Applicant    | :  | Shenzhen Apeman Innovations Technology Co., Ltd.  |  |  |
|--------------|--|---|--|--|
| Address      | 3  | 1808, Heng Lu E Times Building, No. 159, North Pingji Road, Hehua<br>Community, Pinghu Street, Longgang District, Shenzhen,<br>Guangdong, CHINA |  |  |
| Manufacturer |  | Shenzhen Apeman Innovations Technology Co., Ltd.  |  |  |
| Address      | : 1808, Heng Lu E Times Building, No. 159, North Pingji Road, Hehu<br>Community, Pinghu Street, Longgang District, Shenzhen,<br>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.      |                   |  |  |  |  |
|                        |   | Operation Frequency:   | 2406MHz~2475MHz   |  |  |  |  |
| Product<br>Description |   | Number of Channel:   | 2.4G: 24 Channels |  |  |  |  |
|                        |   | Max Peak Output Power:   | : 8.446dBm        |  |  |  |  |
|                        |   | Antenna Gain: 3dBi Internal Antenna  |                   |  |  |  |  |
| 2 2 6                  |   | Modulation Type:   | GFSK (4Mbps)      |  |  |  |  |
| Power Rating           | : | Adapter (TPQ-236A050100UW01)<br>Input: 100-240V~, 50/60Hz, 0.3A<br>Output: DC 5V1A<br>DC 3.7V by 930mAh Li-ion battery |                   |  |  |  |  |
| Software Version       | : | VM300-RX-Voger-V1.0  |                   |  |  |  |  |
| Hardware<br>Version    | : | VM300RX-V01  |                   |  |  |  |  |

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

TB-RF-074-1.0

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Report No.: TB-MPE180597 Page: 2 of 3

### **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
    - 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)]\*[√f<sub>(GHz)</sub>] ≤3.0 for 1-g SAR [(max. power of channel, including tune-up tolerance, mW)/(min. test
      - separation, mm)]\*[ $\sqrt{f_{(GHz)}}$ ]  $\leq$ 7.5.0 for 10-g SAR

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#### 2. Calculation:

| Test separation: 5mm<br>2.4G Mode |       |     |   |       |       |     |  |  |  |  |
|-----------------------------------|-------|-----|---|-------|-------|-----|--|--|--|--|
|                                   |       |     |   |       |       |     |  |  |  |  |
| 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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