

# RF Exposure Evaluation

## FCC ID: 2AX2V-A1799C

### 1. Client Information

|              |   |                                                                                                   |
|--------------|---|---------------------------------------------------------------------------------------------------|
| Applicant    | : | Shenzhen Tilv Technology Co., Ltd                                                                 |
| Address      | : | 4/F Dongshan No.8 factory, Difu Rd.,Gushu Community, Xixiang St., Baoan District, Shenzhen, China |
| Manufacturer | : | Shenzhen Tilv Technology Co., Ltd                                                                 |
| Address      | : | 4/F Dongshan No.8 factory,Difu Rd., Gushu Community, Xixiang St., Baoan District, Shenzhen, China |

### 2. General Description of EUT

|                                                                                                                                    |   |                                                                                                                                                                                                                                                                                                                                                        |                                   |
|------------------------------------------------------------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| EUT Name                                                                                                                           | : | AI 360 FACE/OBJECT TRACKING TRIPOD                                                                                                                                                                                                                                                                                                                     |                                   |
| Model(s) No.                                                                                                                       | : | A1799, IJOY CHASE, CHASE ROBOT, TRACK AI, TRACK ROBOT, IJOY TRACK, 360 VIEW, IJPSTRK01, 360 TRACK, T-1799, SMART TRIPOD, SMART HOLDER, A2252, IJPSCHRT01, IJPSCHRT01-WM, IJPSCHRT01-WM24, IJPSCHRT01-WM30, IJPSCHRT01-WM2, IJPVW01-5B; IJPSCHRT01WC2; IJPSCHRT01WCD6; IJPSCHRT01XXX, IJPSCHRT01-XX, IJPSCHRT01-XXX; TY-1799, TY-2252, TY-1955, TY-2231 |                                   |
| Model Different                                                                                                                    | : | All these models are identical in the same PCB, layout and electrical circuit, the only difference is Housing.                                                                                                                                                                                                                                         |                                   |
| Product Description                                                                                                                | : | Operation Frequency:                                                                                                                                                                                                                                                                                                                                   | Bluetooth V5.0(BT): 2402~2480 MHz |
|                                                                                                                                    |   | Number of Channel:                                                                                                                                                                                                                                                                                                                                     | Bluetooth 5.0(BT): 79 channels    |
|                                                                                                                                    |   | RF Output Power:                                                                                                                                                                                                                                                                                                                                       | 1.142dBm (Max)                    |
|                                                                                                                                    |   | Antenna Gain:                                                                                                                                                                                                                                                                                                                                          | -3.0dBi PCB Antenna               |
|                                                                                                                                    |   | Modulation Type:                                                                                                                                                                                                                                                                                                                                       | GFSK                              |
|                                                                                                                                    |   | Bit Rate of Transmitter:                                                                                                                                                                                                                                                                                                                               | 1Mbps                             |
| Power Supply                                                                                                                       | : | Input: 3*1.5 AA Battery                                                                                                                                                                                                                                                                                                                                |                                   |
| Software Version                                                                                                                   | : | V1.0                                                                                                                                                                                                                                                                                                                                                   |                                   |
| Hardware Version                                                                                                                   | : | V2.0                                                                                                                                                                                                                                                                                                                                                   |                                   |
| Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test provided by TOBY test lab. |   |                                                                                                                                                                                                                                                                                                                                                        |                                   |

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

TB-RF-074-1.0

## 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  $\leq 5$  mm are determined by:

- [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)] \*  $\sqrt{f_{\text{GHz}}}$   $\leq 3.0$  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  |                       |                              |                                      |                                     |                   |                 |
|-----------------------|-----------------------|------------------------------|--------------------------------------|-------------------------------------|-------------------|-----------------|
| Bluetooth Mode (GFSK) |                       |                              |                                      |                                     |                   |                 |
| 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 |
| 2.402                 | 1.142                 | 1±1                          | 2.0                                  | 1.585                               | 0.491             | 3.0             |
| 2.441                 | 0.48                  | 0±1                          | 1.0                                  | 1.259                               | 0.393             | 3.0             |
| 2.480                 | -1.093                | -1±1                         | 0                                    | 1.000                               | 0.315             | 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.

-----END OF REPORT-----