

# RF Exposure Evaluation

## FCC ID: 2ANM4SL-7081

### 1. Client Information

**Applicant** : Shenzhen qiuyu Electronic Co.,Ltd  
**Address** : 3F, E Building, Hongzhuyongqi Industrial Park, Lezhujiao village, xixiang town, Bao'an District, Shenzhen, China  
**Manufacturer** : Shenzhen qiuyu Electronic Co.,Ltd  
**Address** : 3F, E Building, Hongzhuyongqi Industrial Park, Lezhujiao village, xixiang town, Bao'an District, Shenzhen, China

### 2. General Description of EUT

|                               |   |                                                                           |                               |
|-------------------------------|---|---------------------------------------------------------------------------|-------------------------------|
| <b>EUT Name</b>               | : | Insect Trap                                                               |                               |
| <b>Models No.</b>             | : | SL-7081                                                                   |                               |
| <b>Product Description</b>    | : | Operation Frequency:                                                      | Bluetooth V4.0: 2402~2480 MHz |
|                               |   | RF Output Power:                                                          | Bluetooth: 0.761dBm(8-DPSK)   |
|                               |   | Antenna Gain:                                                             | 1.2dBi PCB Antenna            |
| <b>Power Supply</b>           | : | DC Voltage supplied by USB Cable<br>DC Voltage supplied by Li-ion Battery |                               |
| <b>Power Rating</b>           | : | DC 5V by USB Cable<br>DC 3.7V by 3600mAh Li-ion Battery                   |                               |
| <b>Connecting I/O Port(S)</b> | : | Please refer to the User's Manual                                         |                               |

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

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

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



**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                            | -1.213                | $-0.5 \pm 1$                 | 0.5                                  | 1.122                               | 0.348             | 3.0             |
| 2.441                            | -0.106                | $-0.5 \pm 1$                 | 0.5                                  | 1.122                               | 0.351             | 3.0             |
| 2.480                            | -0.321                | $-0.5 \pm 1$                 | 0.5                                  | 1.122                               | 0.353             | 3.0             |
| Bluetooth Mode ( $\pi/4$ -DQPSK) |                       |                              |                                      |                                     |                   |                 |
| 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                            | 0.574                 | $0 \pm 1$                    | 1                                    | 1.259                               | 0.390             | 3.0             |
| 2.441                            | 0.752                 | $0 \pm 1$                    | 1                                    | 1.259                               | 0.393             | 3.0             |
| 2.480                            | 0.565                 | $0 \pm 1$                    | 1                                    | 1.259                               | 0.397             | 3.0             |
| Bluetooth Mode (8-DPSK)          |                       |                              |                                      |                                     |                   |                 |
| 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                            | 0.609                 | $0 \pm 1$                    | 1                                    | 1.259                               | 0.390             | 3.0             |
| 2.441                            | 0.761                 | $0 \pm 1$                    | 1                                    | 1.259                               | 0.393             | 3.0             |
| 2.480                            | 0.597                 | $0 \pm 1$                    | 1                                    | 1.259                               | 0.397             | 3.0             |

So standalone SAR measurements are not required.

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