



## RF Exposure Evaluation

### FCC ID: 2BFMU-G01

#### 1. Client Information

|              |   |                                                                                                                                |
|--------------|---|--------------------------------------------------------------------------------------------------------------------------------|
| Applicant    | : | Dongguan Aimigao Electronic Technology Co., LTD                                                                                |
| Address      | : | The 4th floor, Building 1, Xiangrong Industrial Park, Yanwu Village, Dalingshan Town, Dongguan City, Guangdong Province, China |
| Manufacturer | : | Dongguan Aimigao Electronic Technology Co., LTD                                                                                |
| Address      | : | The 4th floor, Building 1, Xiangrong Industrial Park, Yanwu Village, Dalingshan Town, Dongguan City, Guangdong Province, China |

#### 2. General Description of EUT

|                                                                                                                                                |                      |                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------|
| EUT Name                                                                                                                                       | :                    | MiNI Printer Manual                                                                                               |
| Model(s) No.                                                                                                                                   | :                    | G01, G02                                                                                                          |
| Model Difference                                                                                                                               | :                    | All these models are identical in the same PCB, layout and electrical circuit, the only difference is appearance. |
| Product Description                                                                                                                            | Operation Frequency: | Bluetooth(BR+EDR) V5.1:<br>2402MHz~2480MHz                                                                        |
|                                                                                                                                                | Number of Channel:   | 79 channels                                                                                                       |
|                                                                                                                                                | Antenna Gain:        | -0.58dBi PCB Antenna                                                                                              |
|                                                                                                                                                | Modulation Type:     | GFSK(1Mbps)<br>π/4-DQPSK(2Mbps)<br>8-DPSK(3Mbps)                                                                  |
| Power Supply                                                                                                                                   | :                    | USB Input: DC 5V<br>DC 3.7V 1200mAh Rechargeable Li-ion battery                                                   |
| Software Version                                                                                                                               | :                    | V0.2                                                                                                              |
| Hardware Version                                                                                                                               | :                    | V0.2                                                                                                              |
| Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter 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  $\leq 5$  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                       | 6.047                 | 6±1                          | 7                                    | 5.012                               | 1.554             | 3.0             |
| 2.441                       | 6.432                 | 6±1                          | 7                                    | 5.012                               | 1.566             | 3.0             |
| 2.480                       | 6.536                 | 6±1                          | 7                                    | 5.012                               | 1.579             | 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                       | 6.735                 | 6±1                          | 7                                    | 5.012                               | 1.554             | 3.0             |
| 2.441                       | 6.951                 | 6±1                          | 7                                    | 5.012                               | 1.566             | 3.0             |
| 2.480                       | 7.026                 | 7±1                          | 8                                    | 6.31                                | 1.987             | 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                       | 7.209                 | 7±1                          | 8                                    | 6.31                                | 1.956             | 3.0             |
| 2.441                       | 7.384                 | 7±1                          | 8                                    | 6.31                                | 1.972             | 3.0             |
| 2.480                       | 7.351                 | 7±1                          | 8                                    | 6.31                                | 1.987             | 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.

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

