



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: 2402MHz~2480MHz
	Number of Channel:	79 channels
	Antenna Gain:	-0.58dBi PCB Antenna
	Modulation Type:	GFSK(1Mbps) π/4-DQPSK(2Mbps) 8-DPSK(3Mbps)
Power Supply	:	USB Input: DC 5V 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 ≤ 5 mm are determined by:

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

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



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-----

