



RF EXPOSURE EVALUATION

1. PRODUCT INFORMATION

Product Description	Portable Label Printer
Model Name	GG-AT 110HW
Series Model	GG-AT 111HW, GG-AT 112HW, GG-AT 113HW, GG-AT 114HW, GG-AT 115HW, RM-GG-970W, GG-BT 30EW, GG-BT 30HW, GG-BT 30H, GG-BT 30E, GG-BT 40EW, GG-BT 40HW, GG-BT 40E, GG-BT 40H, GG-BT 50EW, GG-BT 50E, GG-BT 50HW, GG-BT 50H, GG-BH 60HW, GG-BH60EW, GG-BH 60H, GG-BH 60E, GG-BT 70EW, GG-BT 70HW, GG-BT 70E, GG-BT 70H, GG-BT 80EW, GG-BT 80HW, GG-BT 80E, GG-BT 80H, GG-BT 90EW, GG-BT 90HW, GG-BT 90E, GG-BT 90H, GG-BT 100EW, GG-BT100HW, GG-BT 100E, GG-BT 100H
FCC ID	2A57D-GG-AT-110HW

2. EVALUATION METHOD

According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Where $f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

3. CALCULATION

BR/EDR

$P_t = -3.628\text{dBm} = 0.43\text{mW}$

The value of the Maximum output power P_t is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation $\text{SAR} = (0.43\text{mW} / 5\text{mm}) \cdot [\sqrt{2.480\text{GHz}}] = 0.14 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

BLE

$P_t = -2.267\text{dBm} = 0.59\text{mW}$

The value of the Maximum output power P_t is referred to the test report of the CFR47 §15.247.

The result for RF exposure evaluation $\text{SAR} = (0.59\text{mW} / 5\text{mm}) \cdot [\sqrt{2.480\text{GHz}}] = 0.19 < 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

4. CONCLUSION

The SAR evaluation is not required.

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