

TEST REPORT

Report Number. :	90808-25-72-25-PP003	
Date of issue..... :	2025-09-19	
Prepared by (+signature)..... :	Pale	
Approved by (+signature) :	Jason	
Testing Laboratory name :	SLG-CPC Testlaboratory Co., Ltd.	
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Applicant's name :	Zhuhai Xprinter Electronics Technology Co., Ltd.	
Address..... :	5/F, 1st Workshop, No.613 Huawei Road, Qianshan Industrial Zone, Xiangzhou District, Zhuhai City, Guangdong Province, P.R.China	
Manufacturer's name :	Zhuhai Xprinter Electronics Technology Co., Ltd.	
Address..... :	5/F, 1st Workshop, No.613 Huawei Road, Qianshan Industrial Zone, Xiangzhou District, Zhuhai City, Guangdong Province, P.R.China	
Factory's name :	Zhuhai Xprinter Electronics Technology Co., Ltd.	
Address..... :	5/F, 1st Workshop, No.613 Huawei Road, Qianshan Industrial Zone, Xiangzhou District, Zhuhai City, Guangdong Province, P.R.China	
Standard(s) :	§15.247(i), §2.1093	
Test item description :	Thermal label printer (Series product name see page 4 for details)	
Trade Mark :	ORGBRO	
Model/Type reference :	Z3, T003	
FCC ID :	2AWYK-Z3	
Date of receipt of test item :	2025-08-21	
Date (s) of performance of test:	2025-08-22 to 2025-09-02	
Summary of Test Results :	Pass	

The Summary of Test Results based on a technical opinion belongs to the standard(s).

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Modified History

Report No.	Revision Date	Summary
90808-25-72-25-PP003	2025-09-19	Original Version

1. EUT SPECIFICATION

Characteristics	Description
Product:	Thermal printer, Label printer, Thermal label printer, Pocket Thermal Printer, Error Printer, Household Label Printer, Portable Thermal Label Printer, Portable Thermal Printer, Price Label Printer, Ink-free Printer, Photo Printer, Picture Printer, Portable Printer, A4 Printer, Inkless Printer, Mobile Printer, Thermal Transfer Printer, Wrong Question Printer, Home Label Printer, Price Code Label Printer, Learning Printer, Search Question Printer, Photo Printer, Image Printer, A4 Thermal Printer, A4 Thermal Transfer Printer, A4 Portable Printer, Homework Printer, A4 Desktop Printer, A4 Smart Printer, A4 Inkless Printer, Tattoo Stencil Printer, Tattoo Printer, Stencil Printer, Temporary Tattoo Printer, Tattoo Printer Machine , Tattoo Transfer Printer, Portable Tattoo Transfer Machine, Label Maker, Label Maker Machine, Bluetooth Label Printer, Mini Label Maker, Small Label Printer, Receipt Printer, Sticker Printer, Mini Printer, Sticker Maker, Sticker Maker Machine, Mini Sticker Printer, Portable Printer, Bluetooth Printer, Inkless Printer, Wireless Printer, Tattoo Machine, Wireless Tattoo Machine, Instant Print Camera
Model Number:	Z3, T003
Device Type:	DSS: Bluetooth V3.0 DTS: Bluetooth V5.4
Data Rate:	DSS: 1Mbps for GFSK modulation; DTS: 1Mbps for GFSK modulation
Modulation:	DSS: GFSK DTS: GFSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	BT: 79 channels BLE: 40 channels
Transmit Power Max:	BT: -4.17 dBm BLE: -3.24 dBm
Antenna Gain:	-0.93 dBi
Power supply:	Input: 5V---1A or 5V---2A (The label represents only one of the inputs) Battery Capacity: 7.4VDC 2200mAh
Evaluation applied:	☐ MPE Evaluation ☒ SAR Evaluation

2. TEST REQUIREMENT

RF EXPOSURE EVALUATION

According to §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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:

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot [f_{(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}^{24} \text{ where}$$

- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by §2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

One antenna is available for the EUT. The minimum separation distance is 5mm.

3. MEASUREMENT RESULT

modulation	Transmit Frequency (MHz)	Measured Power (dBm)	Tune up Power (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
BR: GFSK	2402	-6.38	±1	-5.38	0.089808	3
	2441	-4.17	±1	-3.17	0.150596	3
	2480	-4.61	±1	-3.61	0.137169	3
BLE: GFSK(1M)	2402	-5.36	±1	-4.36	0.113584	3
	2441	-3.24	±1	-2.24	0.186520	3
	2480	-3.79	±1	-2.79	0.165675	3

According to KDB 447498 D01 General RF Exposure Guidance v06, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

*** End of Report ***

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