



经续检验

SLG-CPC Testlaboratory

## TEST REPORT

Report Number. .... :	90807-25-72-25-PP003	
Date of issue..... :	2025-09-22	
Prepared by (+signature)..... :	Pale	<i>Pale</i>
Approved by (+signature) ..... :	Jason	<i>Jason gao</i>
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Manufacturer's name ..... :	Same as applicant	
Address..... :	Same as applicant	
Factory's name ..... :	Same as applicant	
Address..... :	Same as applicant	
Standard(s) ..... :	§15.247(i), §2.1093	
Test item description ..... :	Please refer to page 4	
Trade Mark..... :	ORGBRO	
Model/Type reference ..... :	X8, S008	
FCC ID ..... :	2AWYK-X8	
Date of receipt of test item..... :	2025-08-19	
Date (s) of performance of test:	2025-08-20 to 2025-09-01	
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
90807-25-72-25-PP003	2025-09-22	Original Report

## 1. EUT Specification

Characteristics	Description
<b>Product:</b>	Tattoo stencil printer, 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
<b>Model Number:</b>	X8,S008(Note: All the models are exactly the same. The only difference lies in the product model. Model "X8" is the main test model. For this test, the battery capacity used for installation is: 2000mAh)( Battery 1 has a capacity of 2000mAh and Battery 2 has a capacity of 1500mAh. The only difference between them is the capacity, and the input specification parameters are the same as those of the manufacturer, so it does not affect the radio frequency function.)
<b>Sample:</b>	1#
<b>Device Type:</b>	Bluetooth V5.3
<b>Data Rate:</b>	DSS: 1Mbps for GFSK modulation  DTS: 1Mbps for GFSK modulation
<b>Modulation:</b>	DSS: GFSK DTS: GFSK(1M)
<b>Operating Frequency Range(s) :</b>	2402-2480MHz
<b>Number of Channels:</b>	DSS: 79 channels DTS: 40 channels
<b>Transmit Power Max:</b>	DSS: -0.33 dBm GFSK DTS: -0.66 dBm
<b>Antenna Gain:</b>	3.54 dBi
<b>Power supply:</b>	/
<b>Evaluation applied:</b>	<input type="checkbox"/> MPE Evaluation <input checked="" type="checkbox"/> 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*  $\leq 50$  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  $\leq 7.5$  for 10-g extremity SAR,<sup>24</sup> 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<sup>25</sup>
- 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  $\leq 50$  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 (dB)	Max tune up power(dBm)	Calculation Result	1-g SAR
BR: GFSK	2402	-0.33	±1	0.67	0.361673	3
	2441	-0.73	±1	0.27	0.332517	3
	2480	-1.16	±1	-0.16	0.303568	3
BLE: GFSK(1M)	2402	-0.66	±1	0.34	0.335210	3
	2441	-0.97	±1	0.03	0.314576	3
	2480	-1.47	±1	-0.47	0.282654	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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