

TEST REPORT		
Report Number.....:	EP2608091F03	
Date of receipt of test item:	2026-08-17	
Date (s) of performance of test	2026-08-18 to 2026-10-08	
Date of issue	2026-10-08	
Testing Laboratory name.....:	Dongguan Pubiao Testing Technology Co., Ltd.	
Address	Room 101, Building 1, No.30, Minghua Road, Shijie, Shijie Town, Dongguan, Guangdong, 523250, People's Republic of China	
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	PORTABLE LABEL PRINTER	
Trade Mark.....:	N/A	
Model/Type reference.....:	XP-F1, F1	
FCC ID.....:	2AWYK-F1	
Summary of Test Results	Pass	
Test Report Form No.....:	§15.247(i), §2.1093	
Master TRF	Dated 2025-11	
Prepared by (+signature)	Dora Ning	
Approved by (+signature).....:	Eric Liu	
The Summary of Test Results based on a technical opinion belongs to the standard(s):		
General disclaimer: This report shall not be reproduced except in full, without the written approval of Dongguan Pubiao Testing Technology Co., Ltd. The test results in the report only apply to the tested sample.		

Table of Contents

1. EUT SPECIFICATION.....	4
2. TEST REQUIREMENT	5
3. MEASUREMENT RESULT.....	6

Modified History

Report No.	Revision Data	Summary
EP2608091F03	2026-10-08	Original Version

1. EUT SPECIFICATION

Characteristics	Description
Product:	PORTABLE LABEL PRINTER
Model Number:	XP-F1, F1
Difference:	All models are identical to each other except for model name. Here we choose F1 as the test EUT.
Device Type:	Bluetooth V5.0
Data Rate:	DSS: 1Mbps for GFSK modulation; 2Mbps for pi/4-DQPSK modulation DTS: 1Mbps for GFSK modulation
Modulation:	DSS: GFSK, pi/4-DQPSK DTS: GFSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	BT: 79 channels BLE: 40 channels
Transmit Power Max:	BT: 2.23 dBm BLE: 2.93 dBm
Antenna Gain:	-0.93 dBi for 2402-2480MHz
Power supply:	DC 3.7V from Battery DC 5V from USB
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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,²⁴ 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
GFSK	2402	1.94	±1	2.94	0.609981	3
	2441	1.18	±1	2.18	0.516195	3
	2480	0.63	±1	1.63	0.458412	3
pi/4-DQPSK	2402	2.23	±1	3.23	0.652103	3
	2441	1.47	±1	2.47	0.551841	3
	2480	1.01	±1	2.01	0.500329	3
BLE: GFSK(1M)	2402	2.93	±1	3.93	0.766155	3
	2440	2.36	±1	3.36	0.677212	3
	2480	1.88	±1	2.88	0.611302	3

Conclusion:

For the max result: $0.766155 \leq 3.0$ for 1-g SAR extremity SAR.

According to KDB 447498 D01 General RF Exposure Guidance v06, transmitter power RF exposure is below FCC threshold.

*** End of Report **

免责声明

Legal Disclaimer

1. 报告无“检测报告专用章”或检验单位公章无效。

This report is invalid without "special seal for test report" or official seal of inspection unit.

2. 报告无主检, 审核, 批准人签名无效。

The report is invalid without the signature of the principal inspector, auditor and approver.

3. 报告如有涂改或页码缺失则无效。

Reports with corrections or missing page numbers are invalid.

4. 本检测报告以实测值进行符合性判定, 未考虑不确定度所带来的风险, 本实验室不承担相关责任, 特别约定, 标准或规范中有明确规定的除外;

The test results or observations are provided in accordance with measured value, without taking risks caused by uncertainty into account. Without explicit stipulation in special agreements, standards or regulations, Pubiao shall not assume any responsibility.

4. 对检验报告若有异议, 应于收到报告之日起十五日内向检验单位提出, 过期不予受理。

Any objection to the inspection report shall be submitted to the inspection unit within 15 days from the date of receipt of the report.

5. 本次检测结果仅对收到的客户样品负责。

The test results are only responsible to the samples received from customers.

6. 未经实验室批准不得部分复制报告

Partial reproduction of the report shall not be permitted without laboratory approval.

地 址: 广东省东莞市石碣镇石碣铭华路30号1号楼101室

Address: Room 101, Building 1, No.30, Minghua Road, Shijie, Shijie Town, Dongguan, Guangdong, China.

电话总机/Tel.: +86 769-8181 3516

传 真/Fax.: +86 769-8181 3536