TEST REPORT

Report Number. ..... :	90718-25-72-25-PP003	
Date of issue..... :	2025-08-06	
Prepared by (+signature)..... :	Pale	Pale Cai
Reviewer (+signature)..... :	Duke	Duke Chen
Approved by (+signature) ..... :	Jason	Jason gao
Testing Laboratory name ..... :	SLG-CPC Testlaboratory Co., Ltd.	
Address..... :	No. 11, Wu Song Road, Dongcheng District Dongguan, Guangdong Province, 523117, People's Republic of China	
Applicant's name ..... :	Zhuhai Xprinter Electronics Technology Co., Ltd.	
Address..... :	5F,1st Building,613 Huawei Road,Qianshan Industrial Park,Xiangzhou District,Zhuhai City,Guangdong Province,China	
Manufacturer's name ..... :	Zhuhai Xprinter Electronics Technology Co., Ltd.	
Address..... :	5F,1st Building,613 Huawei Road,Qianshan Industrial Park,Xiangzhou District,Zhuhai City,Guangdong Province,China	
Factory's name ..... :	Zhuhai Xprinter Electronics Technology Co., Ltd.	
Address..... :	5F,1st Building,613 Huawei Road,Qianshan Industrial Park,Xiangzhou District,Zhuhai City,Guangdong Province,China	
Standard(s) ..... :	§15.247(i), §2.1093	
Test item description ..... :	Thermal ticket printer, Bluetooth thermal ticket printer, Portable thermal receipt printer, Portable thermal label printer, Portable thermal label cloud printer, Validity label printer, Validity printer, Portable barcode printer, Portable printer, Wireless thermal ticket printer, Portable thermal receipt cloud printer	
Trade Mark ..... :	Xprinter® 芯烨	
Model/Type reference ..... :	XP-P810 (See Page 4 for series model)	
FCC ID ..... :	2AWYKXP-P810	
Date of receipt of test item..... :	2025-07-23	
Date (s) of performance of test:	2025-07-24 to 2025-08-04	
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
90718-25-72-25-PP003	2025-08-06	Original Version

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1. EUT Specification

Characteristics	Description
Product:	Thermal ticket printer, Bluetooth thermal ticket printer, Portable thermal receipt printer, Portable thermal label printer, Portable thermal label cloud printer, Validity label printer, Validity printer, Portable barcode printer, Portable printer, Wireless thermal ticket printer, Portable thermal receipt cloud printer
Model Number:	XP-P501A,XP-P502A,XP-P503A,XP-P504A,XP-P505A,XP-P506A,XP-P507A,XP-P508A,XP-P509A,XP-P510A,XP-P501G,XP-P502G,XP-P503G,XP-P504G,XP-P505G,XP-P506G,XP-P507G,XP-P508G,XP-P509G,XP-P510G,XP-P201A,XP-P202A,XP-P203A,XP-P204A,XP-P205A,XP-P206A,XP-P207A,XP-P208A,XP-P209A,XP-P210A,XP-P201G,XP-P202G,XP-P203G,XP-P204G,XP-P205G,XP-P206G,XP-P207G,XP-P208G,XP-P209G,XP-P210G,XP-P801A,XP-P802A,XP-P803A,XP-P804A,XP-P805A,XP-P806A,XP-P807A,XP-P808A,XP-P809A,XP-P810A,XP-P801G,XP-P802G,XP-P803G,XP-P804G,XP-P805G,XP-P806G,XP-P807G,XP-P808G,XP-P809G,XP-P810G,XP-P301A,XP-P302A,XP-P303A,XP-P304A,XP-P305A,XP-P306A,XP-P307A,XP-P308A,XP-P309A,XP-P310A,XP-P301G,XP-P302G,XP-P303G,XP-P304G,XP-P305G,XP-P306G,XP-P307G,XP-P308G,XP-P309G,XP-P310G,P501A,P502A,P201A,P202A,P201G,P202G,P801A,P802A,P301A,P302A,P301G,P302G,XP-P100,XP-P101,XP-P102,XP-P200,XP-P300,XP-P500,XP-P800,XP-P810,XP-P210,XP-P211,XP-P212,XP-P213,XP-P215,XP-P816,XP-P817,XP-P818,XP-P821,XP-P822,P211,P212,P213,P816,P817,P818,XP-P103 (All models are identical to each other except for product name and model name. All tests are performed on model XP-P810.)
Device Type:	DSS: Bluetooth V2.1 DTS: 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: -1.97 dBm BLE: -0.03 dBm
Antenna Gain:	-5.35 dBi
Power supply:	Power Input: 9V⎓2A Battery: 7.4V 1800mAh
AC/DC ADAPTER Information	Model: YC18-09020005 Input: 100-240V~ 0.8A 50/60Hz Output: 9V⎓2A 18W Manufacturer: Zhongshan City Youchuang Electronics Technology Co.,Ltd
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:

[(*max. power of channel, including tune-up tolerance, mW*)/(*min. test separation distance, mm*)] · [$\sqrt{f_{(GHz)}}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,[24] where

- $f_{(GHz)}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation[25]
- 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 quality 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	-3.63	±1	-2.63	0.169167	3
	2441	-2.16	±1	-1.16	0.239229	3
	2480	-1.97	±1	-0.97	0.251916	3
EDR: pi/4-DQPSK	2402	-4.48	±1	-3.48	0.139097	3
	2441	-2.76	±1	-1.76	0.208360	3
	2480	-2.79	±1	-1.79	0.208572	3
BLE: GFSK(1M)	2402	-1.03	±1	-0.03	0.307834	3
	2441	-1.57	±1	-0.57	0.273984	3
	2480	-0.03	±1	0.97	0.393782	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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