

FCC SAR Test Report

Product : Thermal printer
Trade mark : NA
Model/Type reference : FT205、AT205、BT205、CT205、DT205、
ET205、GT205、HT205、IT205、JT205、
KT205、LT205、MT205、NT205、OT205、
PT205、QT205、RT205、ST205、TT205、
UT205、VT205、WT205、XT205、YT205、ZT205
Serial Number : NA
Report Number : EED32S814279
FCC ID : 2A6FW-FT205
Date of Issue: : July. 20, 2026
Test Standards : Refer to Section 1.5
Test result : PASS

Prepared for:

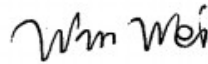
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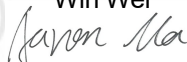


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1 General information

1.1 Notes

The test results of this test report relate exclusively to the test item specified in this test report.

Centre Testing International Group Co., Ltd. does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report is not to be reProduced or published in full without the prior written permission.

1.2 Application details

Date of receipt of test item:	2026-07-16
Start of test:	2026-07-18
End of test:	2026-07-20

1.3 EUT Information

Device Information:			
Product:	Thermal printer		
Model No. (EUT):	FT205、AT205、BT205、CT205、DT205、ET205、GT205、HT205、IT205、JT205、KT205、LT205、MT205、NT205、OT205、PT205、QT205、RT205、ST205、TT205、UT205、VT205、WT205、XT205、YT205、ZT205		
Test Model No.:	FT205		
Model difference:	That any of production units bearing the following model numbers have same electrical, PCB and layout, only the model names and color are different for marketing requirements.		
Trade mark:	N/A		
SN:	N/A		
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location		
Exposure Category:	uncontrolled environment / general population		
Antenna Type :	PCB Antenna		
Antenna gain:	Bluetooth LE & Bluetooth Classic: 3.01dBi, 2.4G Wi-Fi: 3.01dBi		
Others Accessories:	N/A		
Device Operating Configurations:			
Supporting Mode(s) :	BT Dual mode: 2402MHz to 2480MHz; 2.4GHz Wi-Fi: 802.11b/g/n(HT20 and HT40): 2412MHz ~2462 MHz.		
Modulation:	BT: GFSK Wi-Fi: DSSS/OFDM		
Operating Frequency Range(s)	Band	TX(MHz)	RX(MHz)
	Wi-Fi 2.4G	2412~2462	
	BLE	2402~2480	
Test Channels (low-mid-high):	1-3/6-9/11 (2.4G Wi-Fi)		
	0-19-39 (BLE 2450)		
Power Source:	Battery:	DC3.7V	
Test Voltage:	DC 3.7V		

1.4 Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing are as below:

Band	MAX Reported SAR (W/kg)		SAR Test Limit (W/kg)
	1-g Head	1-g Body (0mm)	
Wi-Fi 2.4G	N/A	0.058	1.60

Remark: N/A: This devices doesn't support voice mode, the head mode is not applicable.

Note:

The device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits(1.6W/kg) according to the FCC rule §2.1093, the ANSI/IEEE C95.1:1992, the NCRP Report Number 86 for uncontrolled environment, according to the Industry Canada Radio Standards Specification RSS-102 for General Population/Uncontrolled exposure, and had been tested in accordance with the measurement methods and Procedures specified in IEEE Std 1528-2013.

1.5 Test standard/s

ANSI Std C95.1-2005 4	Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.
IEEE Std 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 248227 D01	SAR guidance for IEEE 802.11(Wi-Fi) transmitters v02r02
KDB 616217 D04	SAR for laptop and tablets v01r02
KDB 447498 D04	Interim General RF Exposure Guidance v01
KDB 690783 D01	SAR Listings on Grants v01r03
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02

1.6 RF exposure limits

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain/Body/Arms/Legs)	1.60 mW/g	8.00 mW/g
Spatial Average SAR** (Whole Body)	0.08 mW/g	0.40 mW/g
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g

The limit applied in this test report is shown in bold letters

Notes:

* The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

** The Spatial Average value of the SAR averaged over the whole body.

*** The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

1.7 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ).

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dV} \right)$$

SAR is expressed in units of watts per kilogram (W/kg). SAR can be related to the electric field at a point by

$$SAR = \frac{\sigma |E|^2}{\rho}$$

where:

σ = conductivity of the tissue (S/m)
ρ = mass density of the tissue (kg/m³)
E = rms electric field strength (V/m)

1.8 Testing laboratory

Test Site	Centre Testing International Group Co., Ltd.
Test Location	Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China
FCC Designation NO.	CN1164
Test Firm Registration NO.	260439
Telephone	+86 (0) 755 3368 3668
Fax	+86 (0) 755 3368 3385

1.9 Test Environment

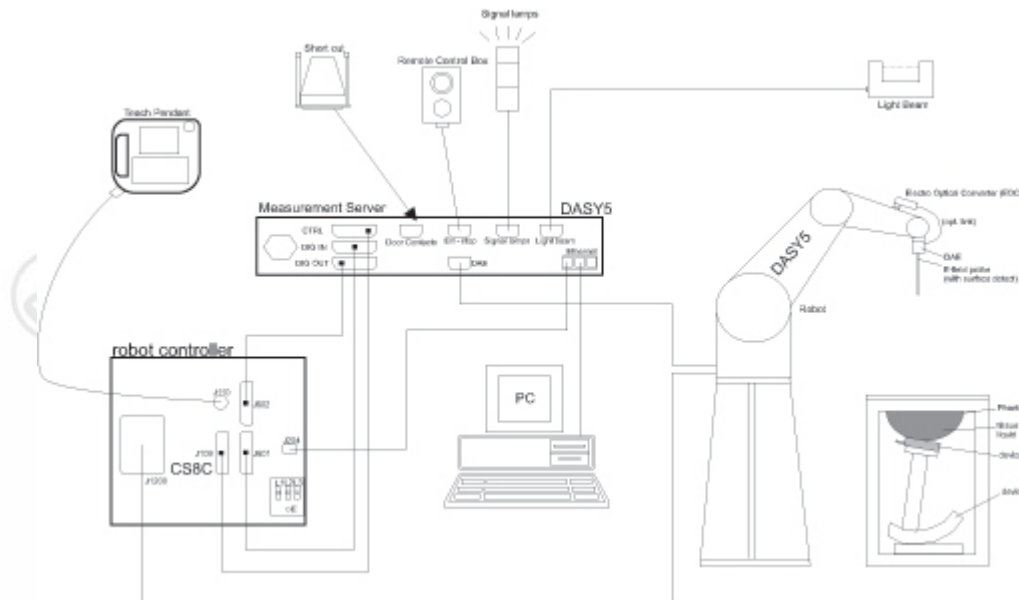
	Required	Actual
Ambient temperature:	18 – 25 °C	21.5 ± 2.0 °C
Tissue Simulating liquid:	18 – 25 °C	21.5 ± 2.0 °C
Relative humidity content:	30 – 70 %	30 – 70 %

1.10 Applicant and Manufacturer

Applicant/Client Name:	Xiamen Print Future Technology Co.,Ltd.
Applicant Address:	Room 701, No.55 Dongling Road, Houxi Town, Jimei District, Xiamen City, Fujian Province, China
Manufacturer Name:	Xiamen Print Future Technology Co.,Ltd.
Manufacturer Address:	Room 701, No.55 Dongling Road, Houxi Town, Jimei District, Xiamen City, Fujian Province, China
Factory Name:	Xiamen Print Future Technology Co.,Ltd.
Factory Address:	Rooms 501, 601, 701, No.55 Dongling Road, Houxi Town, Jimei District, Xiamen City, Fujian Province, China

2 SAR Measurement System Description and Setup

2.1 The Measurement System Description



The DASYS system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (Stäubli TX/RX family) with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field Probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for Probe alignment. This improves the (absolute) accuracy of the Probe positioning.
- A computer running Win7 Professional operating system and the DASYS software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

2.2 Probe description

Dosimetric Probes: These Probes are specially designed and calibrated for use in liquids with high permittivities. They should not be used in air, since the spherical isotropy in air is poor(± 2 dB). The dosimetric Probes have special calibrations in various liquids at different frequencies.

Construction	Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	10 MHz to 6 GHz; Linearity: ± 0.2 dB
Probe Overall Length	337mm
Probe Body Diameter	10mm
Tip Length	9mm
Tip Diameter	2.5mm
Dynamic range	5 μ W/g to 100 mW/g; Linearity: ± 0.2 dB

