



Report No.: PTC20090703102E-FC04

FCC TEST REPORT

FCC ID: 2A2A8JCDN18000

Product	:	Integrated machine
Model Name	:	JC-DN180-00
Brand	:	N/A
Report No.	:	PTC20090703102E-FC04

Prepared for

FUJIAN SECURE MEDICAL TECHNOLOGY CO.,LTD

BUILDING 8#, E DISTRCIT, FUZHOU SOFTWARE PARK, FUZHOU 350003, CHINA

Prepared by

Precise Testing & Certification Co., Ltd.

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TEST RESULT CERTIFICATION

Applicant's name : FUJIAN SECURE MEDICAL TECHNOLOGY CO.,LTD
Address : BUILDING 8#,E DISTRCIT,FUZHOU SOFTWARE PARK,FUZHOU 350003,CHINA
Manufacturer's name : FUJIAN SECURE MEDICAL TECHNOLOGY CO.,LTD
Address : BUILDING 8#,E DISTRCIT,FUZHOU SOFTWARE PARK,FUZHOU 350003,CHINA
Product name : Integrated machine
Model name : JC-DN180-00
Test procedure : KDB 447498 D01 General RF Exposure Guidance v06
Test Date : Mar 01, 2021 to Apr 20, 2021
Date of Issue : Apr 20, 2021
Test Result : Pass

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink, appearing to read 'Leo Yang'.

Leo Yang / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Chris Du'.

Chris Du / Manager



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2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS
Remark:		
N/A: Not Applicable		



3 General Information

3.1 General Description of E.U.T.

Product Name	:	Integrated machine
Model Name	:	JC-DN180-00
Additional model	:	JC-DN180-00, JDB-5341, JDB-M5341, JDB-5741, JDB-M5741, JDB-5782, JDB-M5782, JDB-5781, JDB-5382, JDB-5712, JDB-M5712
Model Description	:	Note : These models are exactly the same except for the hard drive and different memory. Maximum memory and hard disk drives were selected for testing
Bluetooth Version	:	N/A
Operating frequency	:	2.4g : 2412-2462MHz for 802.11b/g;/ n(HT20) 2422-2452MHz for 802.11n(HT40); 5.1g : 5180MHz~5240MHz 5.8g : 5745MHz~5825MHz
Type of Modulation	:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Antenna installation:	:	columnar antenna
Antenna Gain: The directional gain	:	WIFI:6dbi WIFI:9.01dbi
Power supply	:	InputAC100-240V 50-60Hz DC 18.3V 5A



4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : FCC Part 2.1091

4.1 Requirements

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 levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density



4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \sum_{i=1}^n \frac{S_i}{MPE_i}$$

Pd =

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

4.4 Test Result

Item	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Peak Output Power (mw)	Power Density (mW/cm2)	Limit of Power Density (mW/cm2)	Result
WIFI 2.4gA	3.98	18.52	71.12	0.0141	1	Pass
WIFI 2.4gB	3.98	18.50	70.79	0.0141	1	Pass
WIFI 5.1gA	3.98	15.81	38.11	0.0302	1	Pass
WIFI 5.1gB	3.98	15.77	37.76	0.0075	1	Pass
WIFI 5.8gA	3.98	13.60	22.91	0.0046	1	Pass
WIFI 5.8gB	3.98	13.72	23.55	0.0047	1	Pass



2.4GMIMO							
Item	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Peak Output Power (mw)	Power Density (mW/cm2)	test result	Limit of Power Density (mW/cm2)	Result
WIFI 2.4gA	3.98	13.66	23.23	0.0184	0.0358	1	Pass
WIFI 2.4gB	3.98	13.41	21.93	0.0174			
5GMIMO							
WIFI 5.1gA	3.98	15.84	38.37	0.0304	0.0628	1	Pass
WIFI 5.1gB	3.98	16.12	40.93	0.0324			
WIFI 5.8gA	3.98	13.15	20.65	0.0164	0.0351	1	Pass
WIFI 5.8gB	3.98	13.72	23.55	0.0187			

NOTE:2.4G wifi+5G WIFI simultaneous (worst case): $0.0358+0.0628+0.0351=0.1337$

*****THE END REPORT*****