FCC TEST REPORT
FCC ID: 2AVZVW10

Product	:	POS SYSTEM
Model Name	:	W10
Additional model	:	W10-1,W10-2,W10-3,W10-4,W10-5
Brand		CITAQ
Report No.	:	PTC19082202504E-FC04

Prepared for

CITAQ CO., LTD.

9F&13F.,Chuangye Bldg.,Keji Middle Road.,Hi-Tech Zone,Shantou.,Guangdong

Prepared by

Precise Testing & Certification Co., Ltd.

Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China.

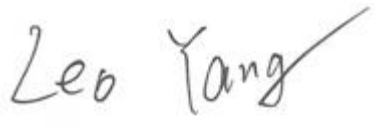
TEST RESULT CERTIFICATION

Applicant's name	:	CITAQ CO., LTD.
Address	:	9F&13F.,Chuangye Bldg.,Keji Middle Road.,Hi-Tech Zone,Shantou.,Guangdong
Manufacture's name	:	CITAQ CO., LTD.
Address	:	9F&13F.,Chuangye Bldg.,Keji Middle Road.,Hi-Tech Zone,Shantou.,Guangdong
Product name	:	POS System
Model name Additional model	:	W10 W10-1,W10-2,W10-3,W10-4,W10-5
Test procedure		KDB 447498 D01 General RF Exposure Guidance v05
Test Date	:	Dec. 18, 2019 to Jan.13, 2020
Date of Issue	:	Jan.13, 2020
Test Result	:	Pass

This device described above has been tested by PTS, 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.

This report shall not be reproduced except in full, without the written approval of PTS, this document may be altered or revised by PTS, personal only, and shall be noted in the revision of the document.

Test Engineer:



Leo Yang / Engineer

Technical Manager:

Chris Du / Manager

Contents

Page

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	:	POS System
Model Name	:	W10
Additional model		W10-1,W10-2,W10-3,W10-4,W10-5
Model Description	:	Only the model names are different.
Bluetooth Version	:	V4.2(With Br+Edr+BLE)
Operating frequency	:	WiFi: 802.11b/g/n HT20: 2412-2462MHz 802.11n HT40: 2422-2452MHz Bluetooth:2402-2480MHz
Max. RF output power	:	WiFi: 18.85dBm Bluetooth: -2.52dBm
Type of Modulation	:	WiFi: CCK, OFDM Bluetooth: GFSK, Pi/4 DQPSK,8DPSK
Antenna installation:	:	WIFI/Bluetooth: internal permanent antenna
Power supply	:	DC 24V 2.5A Power by AC adapter ;Adapter model:PA1060-240T1A250
Adapter	:	Input:100-240V ~50/60Hz 1.8A max Output: DC 24V 2.5A

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 (V/m) = $\frac{\sqrt{30 \times P \times G}}{d}$ Power Density: Pd (W/m²) = $\frac{E^2}{377}$

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 = $\frac{30 \times P \times G}{377 \times d^2}$

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
BT	1.58	-3.28	0.47	0.0001	1	Pass
WIFI	1.58	18.85	76.74	0.0241	1	Pass
BLE	1.58	-2.52	0.56	0.0002	1	Pass

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