



FCC TEST REPORT FCC ID: 2AVZVL15Q5

Product : POS SYSTEM							
Model Name	:	_15Q5					
Brand	:	ITAQ					
Report No.	:	PTC21071503901E-FC04					
		Prepared for					
		CITAQ CO., LTD					
		CITAQ CO., LTD					
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Prepared by							
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TEST RESULT CERTIFICATION

Applicant's name : CITAQ CO., LTD

Address 9F&13F, Chuangye Bldg, Keji Middle Road, Hi-Tech Zone,

Shantou, Guangdong, China

Manufacture's name : CITAQ CO., LTD

Address 9F&13F, Chuangye Bldg, Keji Middle Road, Hi-Tech Zone,

Shantou, Guangdong, China

Product name : POS SYSTEM

Model name : L15Q5

Test procedure FCC CFR47 Part 15 Section 15.247

Test Date : ANSI C63.10:2013

Date of Issue : Aug. 1, 2021 to Aug. 6, 2021

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.

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Test Engineer:

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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.

.1 General Descri	7	
Product Name	:	POS SYSTEM
		L15Q1,L15Q1-1 , L15Q1-2 , L15Q1-3 , L15Q1-4,L15Q1-5
		L15Q2,L15Q2-1 , L15Q2-2 , L15Q2-3 , L15Q2-4 , L15Q2-5
		L15Q3,L15Q3-1 , L15Q3-2 , L15Q3-3 , L15Q3-4 , L15Q3-5
Model Name		L15Q4,L15Q4-1 , L15Q4-2 , L15Q4-3 , L15Q4-4 , L15Q4-5
		L15Q5-1 , L15Q5-2 , L15Q5-3 , L15Q5-4 , L15Q5-5
		L15K1,L15K1-1 , L15K1-2 , L15K1-3 , L15K1-4 , L15 K1-5
		L15K2,L15K2-1 , L15K2-2 , L15K2-3 , L15K2-4 , L15 K2-5
Additional model		L15Q1\L15Q2\L15Q3\L15Q4
Specification		BT 5.0 BDR+EDR ; BLE
	Ĺ	802.11b/g/n HT20/HT40
Operation Francisco		2412-2462MHz for 802.11b/g;/ n(HT20) 2422-2452 MHz for 802.11 n(HT20)
Operation Frequency	:	2402-2480MHz for BT
		11 channels for 802.11b/g; n(HT20)
Number of Channel	:	9 channels for 802.11; n(HT40) 79 channels For BR+EDR;
		40 channels For BLE
		GFSK, Π/4-DQPSK,8DPSK For DSS; GFSK For BLE;
Type of Modulation		DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Antenna installation	: PIFA antenna	
Antenna Gain	Antenna Gain : 0 dBi	
Power supply : Input:100-240V~2.5A,50-60Hz;Output: 24V/3.75A		Input:100-240V~2.5A,50-60Hz;Output: 24V/3.75A
Hardware Version	re Version : N/A	
Software Version	:	N/A



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	<u> </u>	300	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
	27.0	0.070	-	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

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d}$$
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 (W)	Power Density (mW/cm2)	Limit of Power Density (mW/cm2)	Result
WIFI	1	17.94	0.06223	0.1238	1	Pass
BLE	1	5.16	0.00328	0.0065	1	Pass
BR+EDR	1	2.77	0.00189	0.0025	1	Pass

Note: With and BT function can't simultaneously transmit

----- End of Report-----