FCC TEST REPORT

FCC ID: 2BG9S-YR108T

Product	:	android tablet
Model Name	:	YR108T
Serial model	:	XR808T, YR156T, YR215T, ZR238T, ZR270T, ZR320T, R37T, R430T, R490T, R550T, HP101T, HP133T
Brand	:	N/A
Report No.	:	PTC24022004701E-FC05

Prepared for

The Looma Project

5540 Centerview Dr Ste 204 PMB 68853 Raleigh,NC 27606-8012 United States

Prepared by

Precise Testing & Certification Co., Ltd.

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

TEST RESULT CERTIFICATION

Applicant's name	:	The Looma Project
Address	:	5540 Centerview Dr Ste 204 PMB 68853 Raleigh,NC 27606-8012 United States
Manufacture's name	:	E-BUSINESS INTERNATIONAL
Address	:	15244 NW GREENBRIER PKWY BEAVERTON, OR 97006
Product name	:	android tablet
Model name	:	YR108T
Serial model	:	XR808T, YR156T, YR215T, ZR238T, ZR270T, ZR320T, R37T, R430T, R490T, R550T, HP101T, HP133T
Test procedure	:	FCC CFR47 Part 1.1307(b)(1)
Test Date	:	Jun. 27, 2024 to Jul. 9, 2024
Date of Issue	:	Jul. 25, 2024
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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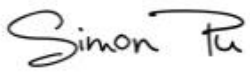
Test Engineer:

Jack zhou / Engineer

Technical Manager:



Simon Pu / Manager

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2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	part 2.1091.(i)	PASS
Remark:		
N/A: Not Applicable		

3 General Information

3.1 General Description of E.U.T.

Product Name	:	android tablet
Model Name	:	YR108T
Additional model	:	XR808T, YR156T, YR215T, ZR238T, ZR270T, ZR320T, R37T, R430T, R490T, R550T, HP101T, HP133T
Differences Description	:	The only difference is the model names.
Specification	:	BT 4.2 BDR+EDR+BLE 802.11b/g/n HT20/HT40 802.11a/n HT20/HT40/ac20/ac40
Operation Frequency	:	2400-2480MHz for BT 2412-2462MHz for 802.11b/g/ n(HT20) 2422-2452MHz for 802.11 n(HT40) 5G Wifi:5180-5240 MHz 5.8G Wifi:5745MHz~5825MHz
Number of Channel	:	79 channels for BDR+EDR 40 channels For DTS 11 channels for 802.11b/g/ n(HT20) 7 channels for 802.11n(HT40) 4 channels for 802.11a/n20/ac20 5180-5240 MHz 5 channels for 802.11a/n20/ac20 5745MHz~5825MHz 2 channels for 802.11n40/ac40 5180-5250 MHz 2 channels for 802.11n40/ac40 5745MHz~5825MHz
Type of Modulation	:	GFSK, Π/4-DQPSK,8DPSK For DSS GFSK, For DTS DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11n/a/ac
Antenna installation	:	PCB antenna
Antenna Gain	:	2.4G:1.82 dBi;5.2G:2.98dBi; 5.8G:2.37 dBi
Rated Power Supply	:	Adapter:JML-1202000-LW Input: 100-240V~50/60Hz 0.8A Output: 12.0V⎓2.0A
Hardware Version	:	RK3568
Software Version	:	XB-RK3568DF-SU-EN-05Y108-HNH9365-EDITION11-20240622

4 RF Exposure

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

Evaluation Method : KDB 447498 D01 General RF Exposure Guidance v06

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

Antenna Gain (numeric)=10^(Antenna Gain/10)

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

Test Mode	Test Frequency(MHz)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Power Density (mW/cm2)	Limit of Power Density (mW/cm2)	Result
3DH5	2441	1.520548	9.66	9.66±1	11.6413	0.00352	1	Pass
BLE_1M	2440	1.520548	6.50	6.50±1	5.6234	0.00170	1	Pass
11N20SISO	2437	1.520548	22.49	22.49±1	223.3572	0.06757	1	Pass
11A	5240	1.986095	13.09	13.09±1	25.6448	0.01013	1	Pass
11A	5785	1.725838	11.53	11.53±1	17.9061	0.00615	1	Pass

5 simultaneous MPE Result

BT(3DH5) MPE ratio	2.4GWiFi（802.11N） MPE ratio	5.2GWIFI (11A) MPE ratio	simultaneous MPE ratio	MPE Limits ratio	Test result
0.00352	0.06757	0.01013	0.08122	1	PASS

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