



FCC TEST REPORT

FCC ID: 2AW5T-OG3000

Product	:	EMTA
Model Name	:	OG3000
Additional model	:	N/A
Brand	:	OVT
Report No.	:	PTC20072004501E-FC03

Prepared for

Beijing Orient View Technology Co., Ltd. Building, No.7, Li Ye Road, Changping District, Beijing, China (Changping Demonstration Park) (102206)

Prepared by

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Report No.: PTC20072004501E-FC03

TEST RESULT CERTIFICATION

Applicant's name : Beijing Orient View Technology Co., Ltd.
Address : Building, No.7, Li Ye Road, Changping District, Beijing, China
Manufacture's name : (Changping Demonstration Park) (102206)
Manufacture's name : Beijing Orient View Technology Co., Ltd.
Address : Building, No.7, Li Ye Road, Changping District, Beijing, China
Address : (Changping Demonstration Park) (102206)
Product name : EMTA
Model name : OG3000
Test procedure : KDB 447498 D01 General RF Exposure Guidance v05
Test Date : Jul. 24, 2020 to Aug. 15, 2020
Date of Issue : Aug. 15, 2020
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 that reads 'Leo Yang'.

Leo Yang / Engineer

Technical Manager:

A handwritten signature in black ink that reads '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	:	EMTA
Model Name	:	OG3000
Additional model	:	N/A
Model Description	:	N/A
Bluetooth Version	:	N/A
Operating frequency	:	WiFi 2.4G:802.11b/g/n HT20/H40: 2412-2462MHz Wifi 5.8G:802.1a20/n20/n40/ac20/ac40/ac80:5745MHz~5825MHz
Type of Modulation	:	WIFI 2.4G:DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n; WIFI 5.8G:OFDM with BPSK/QPSK/16QAM/64QAM/256QAM
Antenna installation:	:	PIFA Antenna
Antenna Gain: The directional gain	:	WIFI:2.4g:3dbi WIFI:5.8g:3dbi WIFI:2.4g:6.01dbi WIFI:5.8g:6.01dbi
Power supply	:	Adapter model:PSA301-120250U Input:AC100-240V,50/60Hz,0.8 A Max ;Output : DC12V 2.5A
Adapter	:	Input:AC100-240V,50/60Hz,0.8 A Max ;Output : DC12V 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

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

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

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

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/cm ²)	Limit of Power Density (mW/cm ²)	Result
2.4G:WIFI A	2	18.52	71.12	0.0282	1	Pass
2.4G:WIFI B	2	18.50	70.79	0.0281	1	Pass
ANT A+ANT B	3.99	16.61	45.81	0.0364	1	Pass
5.8G:WIFI A	2	13.60	22.91	0.0091	1	Pass
5.8G:WIFI B	2	13.72	23.55	0.0093	1	Pass
5.8G:WIFI C	2	11.56	14.32	0.0057	1	Pass
ANT A+B+C	3.99	17.104	51.33	0.0407	1	Pass

NOTE:2.4G wifi+5.8Gwifi simultaneous (worst case):0.0364 +0.0407 =0.0771

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