

TEST REPORT

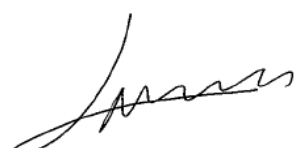

Applicant	Guangdong Changhong Electronics Co.,Ltd
Address	No.1 North Xingye Rd, Nantou Town, Zhongshan city ,Guangdong Province, China

Manufacturer or Supplier	Guangdong Changhong Electronics Co.,Ltd
Address	No.1 North Xingye Rd, Nantou Town, Zhongshan city ,Guangdong Province, China
Product	LED (backlighting) TV
Brand Name	changhong
Model	UGV40F6000(S1)-ESi
Additional Model & Model Difference	N/A
Date of tests	Jul. 13, 2018 ~ Aug. 01, 2018

The submitted sample of the above equipment has been tested according to the requirements of the following standard:

☒ **EN 62311:2008**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Madison Luo Supervisor / EMC Department	Approved by Chris Chen Manager / EMC Department
	
	Date: Aug. 14, 2018

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Test Report No.: SE180713N042

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SE180713N042	Original release	Aug. 14, 2018



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

PRODUCT	LED (backlighting) TV
MODEL NO.	UGV40F6000(S1)-ESi
NOMINAL VOLTAGE	AC 100-240V 50/60Hz
OPERATING TEMPERATURE RANGE	-20~55℃
MODULATION TECHNOLOGY	DSSS, OFDM
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM DVB-S, DVB-S2 DVB-T, DVB-T2
OPERATING FREQUENCY	2412-2472MHz for 11b/g/n(HT20) 2422-2462MHz for 11n(HT40) 950 ~ 2150MHz for DVB-S, DVB-S2 856MHz for DVB-T, DVB-T2
EIRP POWER	18.65dBm (Measured Max.)
ANTENNA TYPE	PCB Antenna, with 2dBi gain

NOTE:

1. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.
2. For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
3. Please refer to the EUT photo document (Reference No.: 180713N042) for detailed product photo.
4. The EUT have MIMO function, provides 2 completed transmitters and 2 receivers.

MODULATION MODE	TX FUNCTION
802.11b	2TX/2RX
802.11g	2TX/2RX
802.11n (HT20)	2TX/2RX
802.11n (HT40)	2TX/2RX



2. RF EXPOSURE MEASUREMENT

2.1 INTRODUCTION

This International Standard applies to electronic and electrical equipment for which no dedicated product- or product family standard regarding human exposure to electromagnetic fields applies.

The frequency range covered is 0 Hz to 300 GHz.

The object of this generic standard is to provide assessment methods and criteria to evaluate such equipment against basic restrictions or reference levels on exposure of the general public related to electric, magnetic and electromagnetic fields and induced and contact current.

2.2 LIMIT

According to EN 62311: 2008, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified 1999/519/EC.

FREQUENCY RANGE (GHz)	E-FIELD STRENGTH (V/m)
2 ~ 300	61

2.3 CLASSIFICATION OF THE ASSESSMENT METHODS

The antenna of the product, under normal use condition is at least 20 cm away from the body of the user. Warning statement to the user for keeping at least 20cm separation distance and the prohibition of operating to a person has been printed on the WLAN easy install sheet. So, this product under normal use is located on electromagnetic far field between the human body.

Far Field Calculation Formula

$$E = \eta_0 H = \frac{\sqrt{30PG(\theta, \phi)}}{r}$$

G = antenna gain relative to an isotropic antenna
 θ, ϕ = elevation and azimuth angles to point of investigation
r = distance from observation point to the antenna
 η_0 = Characteristic impedance of free space



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2.4 TEST RESULTS

CALCULATION FOR MAXIMUM E.I.R.P.

Output Power E.I.R.P. (dBm)	Output Power E.I.R.P. (mW)	E-Field Strength (V/m)	E-Field Strength Limit (V/m)	PASS / FAIL
18.65	73.282	7.41	61.00	PASS