

MPE TEST REPORT

Report No.: SHE19100015-01DE

Date: 2019-12-10

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Applicant : Shanghai Goodview Electronics Technology Co., Ltd.
Address of Applicant : Room 866, NO.888, West Huanhu 2 Road,
NanhuiXincheng Town, Pudong, Shanghai, China

Product Name : LCD DIGITAL DISPLAY/Digital Sign Board
: M*****,
Model No. (*=A to Z, 0 to 9, blank, just different in appearance color,
sales area customer code, and software version)
Sample No. : E19100015-01#01
FCC ID : 2AVB8MSA

Standards : FCC Part 2.1093
OET Bulletin 65 Edition 97-01 June 2001

Date of Receipt : 2019-10-24
Date of Test : 2019-10-24 ~ 2019-11-22
Date of Issue : 2019-12-10

Remark:

This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Revision Record			
Version	Date	Revisions	Revised By
1.0	2019-12-10	Original	--

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1 General Information

1.1 Testing Laboratory

Company Name	ICAS Testing Technology Services (Shanghai) Co., Ltd.
Address	No.1298 Pingan Rd, Minhang District, Shanghai, China
Telephone	0086 21-51682999
Fax	0086 21-54711112
Homepage	www.icasiso.com

1.2 Environmental conditions

Temperature (°C)	18-25
Humidity (%RH)	40-65
Barometric Pressure (mbar)	960-1060
Ambient noise & Reflection (W/kg)	< 0.012

1.3 Details of Application

Company Name	Shanghai Goodview Electronics Technology Co., Ltd.
Address	Room 866, NO.888, West Huanhu 2 Road, NanhuiXincheng Town, Pudong, Shanghai, China
Contact Person	Hongyue. Xu
Telephone	15618060409
Email	xuhongyue@goodview.com

1.4 Details of EUT

Product Name	LCD DIGITAL DISPLAY/Digital Sign Board
Brand Name	GOODVIEW
Model No.	M*****, (*=A to Z, 0 to 9, blank, just different in appearance color, sales area customer code, and software version)
FCC ID	2AVB8MSA
Mode of Operation	WLAN 802.11b/g/n(HT20); Bluetooth BR/EDR
Frequency Range	2400MHz ~ 2483.5MHz
Antenna Type	External Antenna
Antenna Gain	3 dBi

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2 Maximum Permissible Exposure (MPE)

2.1 Limits

According to FCC Part 1.1307, 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 level in excess of the commission's guidelines.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

2.2 Assessment methods

Calculation Formula from FCC OET 65:

$$S = \frac{P * G}{4 * \pi * R^2}$$

Where:

S = Power Density (mW/cm²)

P = Input Power of the Antenna (mW)

G = Antenna Gain Relative to an Isotropic Antenna

R = Distance from the Antenna to the Point of Investigation (cm)

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2.3 Test Result

Operation Mode	Frequency Range (MHz)	Max Conducted Power (dBm)	Antenna Gain (dBi)	Max EIRP (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)
WLAN 2.4GHz	2400 ~ 2483.5	12.36	3	34.36	0.0068	1.0
Bluetooth	2400 ~ 2483.5	5.67	3	7.36	0.0015	1.0

Note(s):

For 300 – 1,500MHz: Power Density limit is $f/1500$ mW/cm²

For 1,500 – 100,000MHz: Power Density limit is 1.0 mW/cm²

2.4 Conclusion

The Power Density at the position which is 20 cm far from the EUT is smaller than the General Population/Uncontrolled Exposure limit.

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3 Appendixes

3.1 Sample Photograph



Front of the sample



Rear of the sample

End of the report