

FCC RF EXPOSURE REPORT

FCC ID: 2BNYN-DX-ETS-5000KA

Test Report No.....: RF250320018-02-006

Product(s) Name.....: 50" CLASS SMART 4K UHD LED TV

Model(s).....: ETS-5000KA, 50Z11, 50S10, WD49FX5201, 50*****
(* can be any alphanumeric character symbol or blank, which represents different color and sales area code.)

Trade Mark.....: N/A

Applicant.....: Dual Shine Electronics Technology(Xiamen) Co., Ltd

Address.....: NO.188, XINTIAN RD, HOUXI TOWN, JIMEI DISTRICT, XIAMEN,
FUJIAN PROVINCE, CHINA

Receipt Date.....: 2025.04.01

Test Date.....: 2025.04.02 ~ 2025.04.08

Issued Date.....: 2025.04.09

Standards.....: FCC Guidelines for Human Exposure IEEE C95.1
FCC Title 47 Part 2.1091
KDB 447498 D01 General RF Exposure Guidance v06

Testing Laboratory.....: Shenzhen Haiyun Standard Technical Co., Ltd.

Prepared By:	Checked By:	Approved By:	
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<i>Jason Huang</i>	<i>Black Ding</i>	<i>Tim Zhang</i>	

History of this test report

Original Report Issue Date: 2025.04.09

- ☒ No additional attachment
- ☐ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1. MPE CALCULATION METHOD

Radio Frequency Exposure Limit

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)
300-1,500	--	--	f/1500
1,500-100,000	--	--	1.0

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

For BT&BLE

Antenna gain	Antenna Type
Ant1: 3.02dBi	Double copper tube antenna

For 2.4GWiFi

Antenna gain	Antenna Type
Ant1: 3.02dBi Ant2: 3.02dBi	Double copper tube antenna

Note: For MIMO mode, Directional gain=G_{ANT} + Array Gain=6.03 dBi

For 5GWiFi:

Antenna gain	Antenna Type
Ant1: 2.76dBi Ant2: 2.76dBi	Double copper tube antenna

Note: For MIMO mode, Directional gain=G_{ANT} + Array Gain=5.77dBi

2. TEST RESULTS

Worst case as below

Operating Mode	Freq.	Maximum conducted output power	Directional Antenna Gain	Calculated maximum EIRP		MPE Limit	MPE Value
	(MHz)	(dBm)	(dBi)	(dBm)	(mW)	(mW/cm ²)	
BDR+EDR	2402-2480	6.65	3.02	9.67	9.27	1	0.002
BLE	2402-2480	5.14	3.02	8.16	6.55	1	0.001
2.4G Wifi ant1	2412-2462	10.10	6.03	16.13	41.02	1	0.008
2.4G Wifi ant2	2412-2462	10.63	6.03	16.66	46.34	1	0.009
5G Wifi ant1	5180-5825	10.49	5.77	16.26	42.27	1	0.008
5G Wifi ant1	5180-5825	10.94	5.77	16.71	46.88	1	0.009

Note: 1. The calculated distance is 20 cm.

2. The Wifi function can transmit at the same time with the BT function. The 2.4G Wifi function can not transmit at the same time with the 5G Wifi function.

Simultaneous transmitting consideration

The ratio= $MPE_{BDR+EDR}/limit + MPE_{5G\ Wifi\ ant1}/limit + MPE_{5G\ Wifi\ ant2}/limit = 0.002/1 + 0.008/1 + 0.009/1 = 0.019 < 1.0$

Result: Complies

Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technical Co., Ltd. (hereinafter referred to as the unit).
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

Shenzhen Haiyun Standard Technical Co., Ltd.

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(END OF REPORT)