



RF Exposure report

FCC ID: 2AI56-SC-4250GTV

Applicant: HKC Corporation Limited

Address: Building 1,2,3, Huike Industrial Park, Minying Industrial Zone, ShuiTian,

ShiYan, Baoan

Manufacturer Guangxi Huike Intelligent Display Co., Ltd

Address NO.4,NO.5,NO12,NO14,in Xinyuan Science and Technology Park, NO.6

Taiwan Road, Beihai Industrial Park, Guangxi Autonomous Region, P.R.

China

Product: LED TV

Brand: HKC, SONIQ, OKANO, RCA, PROSCAN, SLYVANIA,

WESTINGHOUSE, IMPECCA, SUPERSONIC

Test Model(s): SC-4250GTV

Series Model(s): 42D1, RTA4202, SL421AN, RLDED4216A-C, RT4238-G,

PLDED4216A-G, WD42FB1120-C, WD42FB1200, TL4200H, TL4200F

Date:

Test Date: Oct.19, 2020 ~ Oct. 26, 2020

Issued By: Hwa-Hsing (Dongguan) Testing Co., Ltd.

Address: No.101, Bld N1, Yuyuan 2Rd, Yuyuan Industrial Park, HuangJiang Town,

Dongguan, China

FCC Designation No.: CN1255

Standards: FCC Part 2 (Section 2.1091); KDB 447498 D01; IEEE C95.1

The above equipment has been tested by **Hwa-Hsing (Dongguan) Testing Co., Ltd.**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report

Prepared by: Oct. 30, 2020
Scott He/Engineer

Harry Li/ Supervisor

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification. The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.

Hwa-Hsing (Dongguan) Testing Co.. Ltd.

Approved by:

No.101, Bld N1, Yuyuan 2Rd, Yuyuan Industrial Park, HuangJiang Town, Dongguan, China Tel: 0769-83078199 Web.: www.hwa-hsing.com

Jan. 06, 2021



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Release control record

Issue No.	Reason for change	
201031KH11-FE	Original release	Jan. 06, 2021

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1 General Information of EUT

Product	LED TV		
Brand	HKC, SONIQ, OKANO, RCA, PROSCAN, SLYVANIA, WESTINGHOUSE, IMPECCA, SUPERSONIC		
Test Model(s)	SC-4250GTV		
Series Model(s) 42D1, RTA4202, SL421AN, RLDED4216A-C, RT4238-G, PLDED4 WD42FB1120-C, WD42FB1200, TL4200H, TL4200F			
FCC ID:	2Al56-SC-4250GTV		
Status of EUT	Engineering prototype		
Power Supply Rating	AC100-240V~50-60Hz		
Status of EUT	Engineering prototype		
Modulation Type	WLAN: CCK, DQPSK, DBPSK for DSSS; 64QAM, 16QAM, QPSK, BPSK BT: GFSK, π/4DQPSK,8DPSK		
Modulation technology WLAN: DSSS; OFDM BT: DSSS, FHSS			
Transfer Rate	WLAN: 802.11b:11.0/ 5.5/ 2.0/ 1.0Mbps 802.11g: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 300.0Mbps BT: 1/2/3 Mbps		
WLAN: 802.11b, 802.11g, 802.11n (20MHz): 2412 ~ 2462M Operating Frequency 802.11n (40MHz): 2422 ~ 2452MHz BT: 2402 ~ 2480 MHz			
Number of Channel	WLAN: 11 channels for 802.11b, 802.11g, 802.11n (20MHz) 7channels for 802.11n (40MHz) BT EDR: 79 BT LE: 40		
Maximum Output Power BT: 5.66dBm			
Antenna Type	Dipole Antenna		
Max. Peak ANT Gain	3.64dBi		
Antenna Connector	I-PEX		

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the 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 for detailed product photo (Reference No.: 201031KH11).
- 4. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitter and 2receiver.

Support mode	Transmit and receive mode	Transmit and Receive Chain
802.11b	2412~2462MHz	MIMO
802.11g	2412~2462MHz	MIMO
802.11n HT20	2412~2462MHz	MIMO
802.11n HT40	2422~2452MHz	MIMO

5. Model difference: all of these models (SC-4250GTV, 42D1, RTA4202, SL421AN, RLDED4216A-C, RT4238-G, PLDED4216A-G, WD42FB1120-C, WD42FB1200, TL4200H, TL4200F) only difference for brand name and model name for trace purpose.

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2 RF exposure limit

Limits for maximum permissible exposure (MPE)

Limits for general population / uncontrolled exposure					
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Average time (minutes)	
300-1500			F/1500	30	
1500-100,000			1.0	30	
Note: F = Frequency in MHz					

MPE calculation formula:

 $Pd = (Pout*G) / (4*pi*r^2)$

Where:

Pd = power density in mW/cm

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Classification:

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user.

3 Calculation result of maximum conducted power

The antennas provided to the EUT, please refer to the following table:

Function	Frequency Band	Antenna Gain (dBi)	Antenna Type	Transmit and Receive Chain	Maximum AVG Power(dBm)
WLAN	2400~2483.5MHz	3.64	Dinala	2TX,2RX	13.30
ВТ	2400~2483.5MHz	3.64	Dipole	1TX,1RX	5.66

WLAN: 2400~2483.5MHz: Directional gain =3.64dBi + 10loq (2) = 6.65dBi

Function	Max power (mW)	Antenna gain (dBi)	Distance (cm)	Power density (mW/cm²)	Limit (mW/cm²)
WLAN	21.380	3.64	20	0.009834	1.0
BT	3.681	3.64	20	0.001693	1.0

Conclusion: WLAN& BT can operation at the same time, the total power density is **0.0115270** mW/cm², which is less than "1". This confirmed that the device compliance with FCC 1.1310 MPE limit.

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Appendix - Information on the Testing Laboratories

We, <u>Hwa-Hsing (Dongguan) Co., Ltd.</u>, A global provider of TESTING and CERTIFICATION services for consumer products, electronic products and wireless information technology products. Adhering to the core values "HONEST and TRUSTWORTHY, OBJECTIVE and IMPARTIALITY, RIGOROUS and AFFICIENT", commitment to provide professional, perfect and efficient comprehensive ONE-STOP solution of TESTING and CERTIFICATION services for Manufacturers, Buyers, Traders, Brands, Retailers. Assist client to better manage risk, protect their brands, reduce costs and cut time to over 150 markets in global. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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