



FCC ID:	XN6-V514XK6
Applicant:	Zylux Acoustic Corporation
Address:	7F, 70, Rui Guang Road, Neihu District, Taipei 114, Taiwan
Manufacturer:	Vizio Inc
Address:	39 Tesla, Irvine, CA 92618, USA
Product:	30-Inch Sound Bar 5.1 System
Brand(s):	VIZIO
Test Model(s):	V514x-K6
Series Model(s):	N/A
Test Date:	Jun. 21, 2022~ Jul. 05, 2022
Issued Date:	Jul. 18, 2022
Issued By:	Hwa-Hsing (Dongguan) Testing Co., Ltd.
Address:	No.101, Bld N1, Yuyuan 2Rd, Yuyuan Industrial Park, HuangJiang Town, Dongguan, China
Test Firm Registration No.:	915896
Designation No.:	CN1255
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D01 v06 IEEE C95.1

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		Harry Li	

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Release Ver. 1.5



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### **Release control record**

Issue No.	Reason for change	Date issued
220426KH01-SE-US-01	Original Release	Jul. 18, 2022

Lab: <u>Hwa-Hsing (Dongguan) Testing Co., Ltd.</u> Address: <u>No.101, Bld N1, Yuyuan 2Rd, Yuyuan Industrial Park,</u> <u>HuangJiang Town, Dongguan, China</u> Tel: <u>0769-83078199</u> Web.: <u>www.hwa-hsing.com</u> E-Mail: <u>customerservice.dg@hwa-hsing.com</u>

Release Ver. 1.5



### **1** General Information

## 1.1 General Description of EUT

Product(s)	30-Inch Sound Bar 5.1 System
Test Model(s)	V514x-K6
Serial No.	SZZOQ5AY0030053 / SZZOQ5AY0030059
Series Model(s)	N/A
Status of EUT	Engineering Prototype
Power Supply Rating	100-240V~, 50/60Hz, 34W
Modulation Type	GFSK, π/4DQPSK,8DPSK
Transfer Rate	1/2/3Mbps
Operating Frequency	2402 ~ 2480MHz
Output Power (AVG)	0.861dBm
Antenna Type	PCB Antenna
Antenna Gain	4.1dBi
Antenna Connector	N/A
Accessory Device	Infrared remote control
Cable Supplied	AC cable: Unshieled, Detachable, 160cm

Note:

1. Please refer to the EUT photo document (Reference No.: 220426KH01-01&02) for detailed product photo.

2. 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 RF exposure limit

Limits for maximum permissible exposure (MPE)

Limits for general population / uncontrolled exposure								
Frequency range (MHz)	Electric field strength (V/m)	Electric field strength (V/m) Magnetic field strength (A/m) Power density (mW/cm <sup>2</sup> ) Average time (minutes)						
300-1500			F/1500	30				
1500-100,000			1.0	30				
Note: F = Frequency in MHz								

### 2.1 MPE calculation formula

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

Where:

Pd = power density in mW/cm<sup>2</sup>

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.



# HWA-HSING Test Report No.: 220426KH01-SE-US-01

### 3 Calculation result of maximum conducted power

Function	Frequency Band	Antenna Gair (dBi)	n Antenna Type	Transmit and Receive Chain	Maximum AVG Power(dBm)			
Bluetooth	2400~2483.5MHz	4.1	PCB	1TX,1RX	1.155			
Function	Max power (mW)	Antenna gain (dBi)	Distance (cm)	Power density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )			
Bluetooth	1.3047	4.1	20	0.000667	1.0			

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

# 2.3 Calculated Result and Limit

### Exposure Environment: General Population / Uncontrolled Exposure

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm²)	S Limit (mW/cm <sup>2</sup> )
5.2G,2M;G7D	4.10	7.43	11.53	0.50	12.03	0.01596	20	0.00318	1.00000
5.8G,2M;G7D	3.50	7.74	11.24	0.50	11.74	0.01493	20	0.00297	1.00000
5.81G,2M;G7D	3.38	7.38	10.76	0.50	11.26	0.01337	20	0.00266	1.00000

Note: We can know the Wireless Audio Module (NKR-SWA51) maximun situation was 0.00318 mW/cm2 from the RADIO EXPOSURE TEST REPORT:FR882140-01.

### Conclusion:

Therefore, the worst-case situation is 0.000667+0.00318=0.003847 mW/cm<sup>2</sup>, which is less than "1".

This confirmed that the device compliance with FCC 1.1310 MPE limit.





### 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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