RF EXPOSURE REPORT

Applicant	YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.
Address	309, 3rd Floor, No.16, Yun Ding North Road, Huli District, Xiamen City, Fujian, P.R. China

Manufacturer or Supplier	YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.
Address	309, 3rd Floor, No.16, Yun Ding North Road, Huli District, Xiamen City, Fujian, P.R. China
Product	Video Conferencing Endpoint
Brand Name	YEALINK
Model	VC210
Additional Model & Model Difference	N/A
Date of tests	Jan. 08, 2020 ~ Apr. 01, 2020

☒ **FCC Part 2 (Section 2.1091)**
☒ **KDB 447498 D01**
☒ **IEEE C95.1**

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

Tested by Andy Zhu Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	 Date: Apr. 15, 2020

TABLE OF CONTENTS

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM200108N028	Original release	Apr. 15, 2020

Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province. 523942. People's Republic of China.

Tel: +86 769 8998 2098
Fax: +86 769 8593 1080
Email: customerservice.dg@cn.bureauveritas.com

1. CERTIFICATION

PRODUCT:	Video Conferencing Endpoint
BRAND NAME:	YEALINK
MODEL NO.:	VC210
ADDITIONAL MODEL:	N/A
FCC ID:	T2C-VC210
TEST SAMPLE:	ENGINEERING SAMPLE
APPLICANT:	YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.
TESTED DATES:	Jan. 08, 2020 ~ Apr. 01, 2020
STANDARDS:	FCC Part 2 (Section 2.1091) KDB 447498 D01 IEEE C95.1

2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm^2)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	…	…	F/1500	30
1500-100,000	…	…	1.0	30

F = Frequency in MHz

3. MPE CALCULATION FORMULA

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

where

Pd = power density in mW/cm^2

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

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

5. ANTENNA GAIN

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

Frequency Band	Antenna Gain (dBi)	Antenna Type
BT 2.4GHz	3	PCB Antenna
Wi-Fi 2.4GHz	3	PCB Antenna
Wi-Fi 5GHz (5150-5250MHz)	3	PCB Antenna
Wi-Fi 5GHz (5250-5350MHz)	3	PCB Antenna
Wi-Fi 5GHz (5500-5725MHz)	3	PCB Antenna
Wi-Fi 5GHz (5725-5850MHz)	3	PCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BT (GFSK)	2402-2480MHz	5	+-2	3	7
BT (8DPSK)	2402-2480MHz	5	+-2	3	7
BT-LE (GFSK)	2402-2480MHz	0	+-2	-2	2
802.11b	2412-2462MHz	13	+-3	10	16
802.11g	2412-2462MHz	13	+-3	10	16
802.11n HT20	2412-2462MHz	13	+-3	10	16
802.11n HT40	2422-2452MHz	13	+-3	10	16
Wi-Fi 5GHz(Band1)	5150-5250MHz	13	+-3	10	16
Wi-Fi 5GHz(Band2)	5250-5350MHz	13	+-3	10	16
Wi-Fi 5GHz(Band3)	5500-5725MHz	13	+-3	10	16
Wi-Fi 5GHz(Band4)	5725-5850MHz	13	+-3	10	16

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
BT (GFSK)	2402	5.79
BT (8DPSK)	2402	6.14
BT-LE (GFSK)	2402	0.12
802.11b	2462	13.54
802.11g	2462	13.26
802.11n HT20	2462	13.08
802.11n HT40	2452	13.16
Wi-Fi 5GHz(Band1)	5210	14.11
Wi-Fi 5GHz(Band2)	5290	14.22
Wi-Fi 5GHz(Band3)	5580	14.56
Wi-Fi 5GHz(Band4)	5745	13.78

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm^2)	LIMIT (mW/cm^2)
BT	7	3	20	0.0019894	1.0
Wi-Fi 2.4GHz	16	3	20	0.0158026	1.0
Wi-Fi 5GHz	16	3	20	0.0158026	1.0

CONCLUSION:

The BT 2.4GHz and Wi-Fi can transmit simultaneously, the formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 + ……etc. < 1

CPD = Calculation power density

LPD = Limit of power density

(0.0019894/1)+(0.0158026 /1) = 0.017792 <1, which is less than the “1” limit.

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