

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	Smart Business Phone
Brand Name	YEALINK
Model	MP56
Additional Model & Model Difference	N/A
Date of tests	Feb. 26, 2020 ~ Apr. 22, 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 Lucas Chen Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	 Date: May 08, 2020

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM200226N025	Original release	May 08, 2020



Test Report No.: FM200226N025

1. CERTIFICATION

PRODUCT: Smart Business Phone

BRAND NAME: YEALINK

MODEL NO.: MP56

ADDITIONAL MODEL: N/A

FCC ID: T2C-MP56

TEST SAMPLE: ENGINEERING SAMPLE

APPLICANT: YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.

TESTED DATES: Feb. 26, 2020 ~ Apr. 22, 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

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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	5.5	+/-1.5	4	7
BT (8DPSK)	2402-2480MHz	2.5	+/-1.5	1	4
BT-LE (GFSK)	2402-2480MHz	1	+2	-1	3
802.11b	2412-2462MHz	14	+2	12	16
802.11g	2412-2462MHz	13	+2	11	15
802.11n HT20	2412-2462MHz	13	+2	11	15
802.11n HT40	2422-2452MHz	13	+2	11	15
Wi-Fi 5GHz(Band1)	5150-5250MHz	13	+2	11	15
Wi-Fi 5GHz(Band2)	5250-5350MHz	13	+2	11	15
Wi-Fi 5GHz(Band3)	5500-5725MHz	14	+3	11	17
Wi-Fi 5GHz(Band4)	5725-5850MHz	13	+2	11	15

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
BT (GFSK)	2402	5.36
BT (8DPSK)	2441	2.50
BT-LE (GFSK)	2402	1.11
802.11b	2462	14.10
802.11g	2462	13.81
802.11n HT20	2462	13.55
802.11n HT40	2452	13.34
Wi-Fi 5GHz(Band1)	5240	13.94
Wi-Fi 5GHz(Band2)	5320	13.90
Wi-Fi 5GHz(Band3)	5700	14.77
Wi-Fi 5GHz(Band4)	5755	13.84

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	0.001989	1.0
Wi-Fi 2.4GHz	16	3	20	0.015803	1.0
Wi-Fi 5GHz	17	3	20	0.019894	1.0

CONCLUSION:

The WIFI 2.4GHz and Wi-Fi 5GHz can not transmit simultaneously, but the BT and Wi-Fi can transmit simultaneously, the formula of calculated the MPE is:

$$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$$

CPD = Calculation power density

LPD = Limit of power density

$$(0.001989 / 1) + (0.019894 / 1) = 0.021883 < 1, \text{ which is less than the "1" limit.}$$

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