

MPE Report

According to

FCC CFR Title 47 Part 15 Subpart C (15.247)

Applicant YEALINK (XIAMEN) NETWORK TECHNOLOGY CO., LTD.

309, 3th Floor, No.16, Yun Ding North Road, Huli District, Xiamen City, Address

Fujian, China

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

309, 3th Floor, No.16, Yun Ding North Road, Huli District, Xiamen City, **Address**

Fujian, China

Media IP Phone Equipment

Model No. SIP-T54S

- The test result refers exclusively to the test presented test model / sample.,
- Without written approval of *Cerpass Technology (Suzhou) Co.,Ltd.* the test report shall not be reproduced except in full.
- The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Rules and Regulations Part 15. The test report has been issued separately.
- The test report must not be used by the clients to claim product certification approval by **NVLAP** or any agency of the Government.

	Laboratory Accreditatio
repared Bv:	

Kerry Zhou

Cerpass Technology Corporation Test Laboratory **NVLAP LAB Code:**

200954-0 TAF LAB Code: 1439

Approved by:

 \boxtimes

Cerpass Technology (SuZhou) Co., Ltd.

NVLAP LAB Code: 200814-0 **CNAS LAB Code:** L5515

Miro Chueh (EMC/RF Manager)

Cerpass Technology (Suzhou) Co., Ltd Report format Revision 01 Page No. : 1 of 4

Report No.: SEDL1702033



Radio Frequency Exposure

LIMIT

For 2.4G Band: According to §15.247(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this chapter.

Report No.: SEDL1702033

Cerpass Technology (Suzhou) Co., Ltd Issued Date : Mar. 13^h,2017

Report format Revision 01 Page No. : 2 of 4



CERPASS TECHNOLOGY (SUZHOU)CO., LTD

EUT Specification

EUT	Media IP Phone		
Frequency band (Operating)	☑ BT3.0: 2.402GHz ~ 2.480GHz		
Device category	☐ Portable (<20cm separation)☑ Mobile (>20cm separation)		
Exposure classification	 ☐ Occupational/Controlled exposure (S = 5mW/cm²) ☐ General Population/Uncontrolled exposure (S=1mW/cm²) 		
Antenna diversity	 Single antenna Multiple antennas Tx diversity Rx diversity Xx/Rx diversity 		
Max. output power for 2.4G Band	BT3.0: 2.51 dBm (0.000178W)		
Antenna gain (Max)	1.2 dBi for 2.4G Band		
Evaluation applied			
Remark:			

Report No.: SEDL1702033

Issued Date: Mar. 13^h,2017

Report format Revision 01 Page No. : 3 of 4

The maximum output power is <u>2.51dBm (0.000178W)</u> at <u>2402MHz</u> (with <u>numeric 1.32antenna gain</u>.) for 2.4G band

^{2.} DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance.

^{3.} For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.

^{*}Note: Simultaneous transmission is not applicable for this EUT.

Report No.: SEDL1702033

Issued Date: Mar. 13^h,2017

: 4 of 4

Page No.

TEST RESULTS FOR 2.4G BAND

No non-compliance noted.

Calculation

Given

$$E = \frac{\sqrt{30 \times P \times G}}{d} \quad \& \quad S = \frac{E^2}{3770}$$

Where E = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = *Distance in meters*

S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P(mW) = P(W) / 1000$$
 and $d(cm) = d(m) / 100$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$
 Equation 1

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

 $S = Power density in mW / cm^2$

Maximum Permissible Exposure

Modulation	Frequency	Max. Conducted output power(dBm)	Antenna	Distance	Power density	Limit
Mode	band (MHz)		gain (dBi)	(cm)	(mW/cm2)	(mW/cm2)
Pi/4 DQPSK	2402-2480	2.51	1.2	20	0.000467	1