

Report No.: GZCR211102133505

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FCC ID: 2AUIUWWDPC

RF EXPOSURE EVALUATION REPORT

Application No.:GZCR2111021335ATApplicant:Wyze Labs, Inc.

Address of Applicant: 5808 Lake Washington Blvd NE Ste 300 Kirkland Washington 98033 United

State

Manufacturer: ShenZhen Dophigo IoT Technology Co., Ltd

Address of Manufacturer: B02, first floor, building No.9, Nanshan Yungu start-up business industrial

park second part, No.2, Pingshan first road, Pingshan Community, Taoyuan

Street, Nanshan district, Shenzhen.

Factory: Shenzhen Point Electronics Tech Co., Ltd.

Address of Factory: Building3, Shangyuan Industrial Zone, Liantang, Gongming, Guangming

District, Shenzhen

Equipment Under Test (EUT):

EUT Name: Wyze Chime Pro

Model No.: WWDPC Trade Mark: WYZE

Standard(s): 47 CFR Part 1.1307

47 CFR Part 1.1310 47 CFR Part 2.1091

Date of Receipt: 2021-11-02

Date of Evaluation: 2021-11-03 to 2021-11-11

Date of Issue: 2021-11-12

Evaluation Result: Pass*

Kobe Jian EMC Laboratory Manager

以 Over Sub A Testing Services SGS-CS Subgraderds Technical Services Co., Ltd. No. Guangzhou Branch Services Co., Ltd. Guangzhou Branch Services Co

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^{*} In the configuration evaluated, the EUT complied with the standards specified above.



EMC-TRF-03 Rev 1.0

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Revision Record						
Version	Version Chapter Date Modifier					
01		2021-11-11		Original		

Authorized for issue by		
	Cof Vlu	
	Curry Wu/Project Engineer	
	Riday Liv	
	Ricky Liu/Reviewer	



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2 Evaluation Summary

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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4 General Information

4.1 Details of E.U.T.

Power Supply: Input: 100V-240V 0.1A 50/60Hz

For BLE:

Operation Frequency: 2402MHz to 2480MHz

Bluetooth Version: V5.0 LE

Modulation Type: GFSK

Data Rate: 1M/bit

Number of Channels: 40

Channel Spacing: 2MHz

Antenna Type: FPC Antenna

Antenna Gain: 5.84dBi declared by applicant

For 2.4G:

Operation Frequency: 802.11b/g/n(HT20): 2412MHz to 2462MHz

Modulation Type: 802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM

(64QAM, 16QAM, QPSK, BPSK)

Number of Channels: 802.11b/g/n(HT20):11

Channel Spacing: 5MHz

Antenna Type: FPC Antenna

Antenna Gain: 5.84dBi declared by applicant

For 5G:

Operation Frequency (20MHz): U-NII-1: 5180-5240MHz; U-NII-3: 5745-5825MHz

Modulation Type: 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, OPSK, 46QAM);

OFDM (BPSK, QPSK, 16QAM, 64QAM)

Channel Spacing: 802.11a/n(HT20): 20MHz
DFS Function: Without DFS function
TPC Function: Without TPC function

Antenna Type: FPC Antenna

Antenna Gain: 3.15dBi declared by applicant

4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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4.3 Facility

The facility is recognized, certified, or accredited by the following organizations:

• NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

• FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

• ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

• CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None



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5 Radio Spectrum Technical Requirement

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)				
(A) Limits for Occupational/Controlled Exposures								
0.3–3.0 3.0–30 30–300 300–1500 1500–100,000	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300	6 6 6 6				
(B) Limits	for General Populati	on/Uncontrolled Exp	oosure					
0.3–1.34	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30 30				

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4* Pi * R 2)

Where

Pd = power density in mW/cm2

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

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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5.1.3 EUT RF Exposure Evaluation

For BLE:

FMC-TRF-03

Antenna Gain: 5.84dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)	Peak Output	to Antenna	at R = 20 cm		
	Power (dBm)	(mW)	(mW/cm ²)		
2480	7.11	19.72	0.0039	1.0	PASS

Note: Refer to report No. GZCR211102133501 for EUT test Max Conducted Peak Output Power value.

The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

For 2.4GHz Wifi:

Antenna Gain: 5.84dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)	Peak Output	to Antenna	Antenna at R = 20 cm		
	Power (dBm)	(mW)	(mW/cm ²)		
2437	19.08	310.46	0.0618	1.0	PASS

Note: Refer to report No. GZCR211102133502 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

For 5GHz Wifi:

Antenna Gain: 3.15dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)	Peak Output	to Antenna at R = 20 cm			
	Power (dBm)	(mW)	(mW/cm ²)		
5240	18.63	150.66	0.0300	1.0	PASS

Note: Refer to report No. GZCR211102133503 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.



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EUT Constructional Details (EUT Photos) 6

Refer to appendix - external and internal photos for GZCR2111021335AT

- End of the Report -



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