RF Exposure Report

Report No.:	MFBAOZ-WTW-P22040585
FCC ID:	2AUIUWYZECOP
Test Model:	WYZECOP
Received Date:	2022/4/19
Test Date:	2022/6/20
Issued Date:	2022/12/26
Applicant:	Wyze Labs, Inc
Address:	5808 Lake Washington Blvd NE, Ste 300 Kirkland WA United States Of America
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory
Lab Address:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
Test Location:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan
FCC Registration / Designation Number:	723255 / TW2022

Testing Laboratory
2022

Table of Contents

Release Control Record

Issue No.	Description	Date Issued
MFBAOZ-WTW-P22040585	Original release.	2022/12/26

1 Certificate of Conformity

Product: Wyze Battery Cam Pro

Brand: WYZE

Test Model: WYZECOP

Sample Status: Engineering sample

Applicant: Wyze Labs, Inc

Test Date: 2022/6/20

Standards: FCC Part 2 (Section 2.1091)
KDB 447498 D01 General RF Exposure Guidance v06

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Vivian Huang , **Date:** 2022/12/26

Vivian Huang / Specialist

Approved by : , **Date:** 2022/12/26

May Chen / Manager

2 RF Exposure

2.1 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				
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	($180/f^2$)*	30
30-300	27.5	0.073	0.2	30
300-1500	…	…	f/1500	30
1500-100,000	…	…	1.0	30

f = Frequency in MHz ; *Plane-wave equivalent power density

2.2 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

2.3 Classification

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

2.4 Antenna Gain

Antenna No.	Antenna Gain (dBi)	Frequency Range (GHz)	Antenna Type	Connector Type	Cable Length (cm)
1	2.43	2.4~2.4835	Dipole	ipex(MHF)	4
	3.48	5.15~5.85			
2	2	24~24.25	Array	None	-

Note: The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

2.5 Calculation Result

Operation Mode	Evaluation Frequency (MHz)	Max. Average Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)	Pass/ Fail
WLAN 2.4GHz	2412-2462	283.792	2.43	20	0.09879	1	Pass
WLAN 5GHz (U-NII-1)	5180-5240	173.38	3.48	20	0.07687	1	Pass
WLAN 5GHz (U-NII-2A)	5260-5320	196.336	3.48	20	0.08704	1	Pass
WLAN 5GHz (U-NII-2C)	5500-5700	197.697	3.48	20	0.08765	1	Pass
WLAN 5GHz (U-NII-3)	5745-5825	110.408	3.48	20	0.04895	1	Pass
Bluetooth	2402-2480	7.129	2.43	20	0.00248	1	Pass

Operation Mode	Evaluation Frequency (MHz)	Max EIRP Power (dBm)	Max EIRP Power (mW)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)	Result
24GHz	24148	-3.26	0.4721	20	0.00009	1	Pass

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. Calculate the EIRP from the radiated field strength:
   - EIRP (dBm) = Radiated field strength (dBuV/m) + 20*Log(d) −104.7
   - d is the measurement distance, in m
   - EIRP = 91.9 + 20*Log(3) −104.7 = -3.26 dBm

Conclusion:

The formula of calculated the MPE is:

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

CPD = Calculation power density

LPD = Limit of power density

WLAN 2.4GHz + 24GHz = 0.09879 / 1 + 0.00009 / 1 = 0.09888

WLAN 5GHz + 24GHz = 0.08765 / 1 + 0.00009 / 1 = 0.08774

Bluetooth + 24GHz = 0.00248 / 1 + 0.00009 / 1 = 0.00257

Therefore the maximum calculations of above situations are less than the "1" limit.

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