

Test Report No.: FCCSZ2023-0026-H

RF Test Report

FCC ID : 2BD97HC2

EUT : Al Care Sensor

MODEL : HC2?*(see section 2.1)

BRAND NAME : N/A

APPLICANT: TsingLan Technology (Shenzhen) Co., Ltd

Classification of Test : N/A

CVC Testing Technology (Shenzhen) Co., Ltd.

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		Name : TsingLan Technology (Shenzhen) Co., Ltd					
Applicant	Address : 602, Block A, Wanhai Building, No. 1031, Nanhai Avenue, Yanshan Community, Zhaoshang Street, Nanshan District, Shenzhen ,China						
		Name : TsingLan Technology (Shenzhen) Co., Ltd					
Manufacturer		Address : 602, Block A, Wanhai Building, No. 1031, Nanhai Avenue, Yanshan Community, Zhaoshang Street, Nanshan District, Shenzhen ,China					
		Name :Al	Care Sens	or			
		Model/Type: HC2?*(see section 2.1)					
Equipment Un	der Test	Trade mark : N/A					
		Serial NO.:N/A					
Date of Receipt.	2023.12.06	Sampe NO.:3-1 Date of Testing 2023.12.06~2024.01.22				2	
<u> </u>	est Specificat	ion		Test Result			
	2.4220						
	Part 2 (Section KDB 447498 D	•			PASS		
	IEEE C95.3						
		The e	quipment	under test	was found to comply	with the	
		requirements of the standards applied.					
Evaluation of Test	Result				Seal o	f CVC	
					Issue Date:	2024.01.22	
Tested t	oy:	Tested by:		Approved by:			
Lion Jiarny		Huang Meng		M			
<u>Liang Jiatong</u>		Huang Meng		<u>Dong Sanbi</u>			
Name	Name Signature		Name Signature				
Other Aspects: NO	ONE.						
Abbreviations:OK, Pass:	= passed	Fail = failed	N/A= not ap	pplicable	EUT= equipment, sample(s)	under tested	

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCCSZ2023-0026-H	Original release	2024.01.22

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1 GENERAL PRODUCT INFORMATION

PRODUCT Al Care Sensor			
BRAND	N/A		
TEST MODEL HC2?*(Note 3)			
ADDITIONAL MODEL	N/A		
POWER SUPPLY	DC 5V From USB Host Unit		
	FCC Part 2 (Section 2.1091)		
STANDARDS	KDB 447498 D04		
	IEEE C95.3		

Note:

- 1. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- 3. "?" and "*" are wildcard. "?" and "*" is a single letter from A to Z or a number from 1 to 9, representing different versions.

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2 RF EXPOSURE LIMITGENERAL INFORMATION

2.1 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**.

2.2 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (FCC)

(Option C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

RF SOURCE FREQUENCY (MHZ)	THRESHOLD ERP(W)
0.3 -1.34	1,920 R ²
1.34 - 30	3,450 R ² F ²
30 -300	3.83 R ²
300-1500	0.0128 R ² F
1500-100,000	19.2R ²

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2.3 CALCULATION RESULT OF MAXIMUM CONDUCTED PEAK POWER

The measured conducted Peak Power

Mode	Peak Power (dBm)			
BT-LE	8.13			
2.4G WIFI	22.7			
61.5GHz	8.58(Note)			

Note:61.5GHz conducted Power = EIRP - Antenna Gain

The tuned conducted Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)	
BT-LE	2402-2480	8	±1	7	9	
2.4G WIFI	2412-2472	22	±1	21	23	
61.5GHz	60500-62500	8	±1	7	9	

MAXIMUM PERMISSIBLE EXPOSURE (FCC)

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Mode	Frequency (MHz)	Max Power (dBm)	Antenna Gain (dBi)	R (cm)	EIRP (dBm)	ERP (dBm)	ERP (W)	Threshold ERP(W)	Ratio
BT-LE	2402-2480	9	2.81	20	11.81	9.66	0.0092	0.77	0.012
2.4G WIFI	2412-2472	23	2.81	20	25.81	23.66	0.2323	0.77	0.302
61.5GHz	60500-62500	9	2	20	11	8.85	0.0077	0.77	0.01
Sum of ratio = BT-LE + 2.4G WIFI +62GHz							0.324		

Note1: This device can operate simultaneously in BT, WIFI and 61.5GHz.

Note2: ERP=EIRP-2.15dB

Conclusion:

Therefore, the worst-case situation is 0.324(Sum of Ratios), which is less than "1". This confirmed that the device compliance with FCC RF exposure requirements..

----- End of the Report -----

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Important

- (1) The test report is valid without the official stamp of CVC;
- (2) Any part photocopies of the test report are forbidden without the written permission from CVC;
- (3) The test report is invalid without the signatures of Approval and Reviewer;
- (4) The test report is invalid if altered;
- (5) Objections to the test report must be submitted to CVC within 15 days.
- (6) Generally, commission test is responsible for the tested samples only.
- (7) As for the test result "-" or "N" means "not applicable", "/" means "not test", "P" means "pass" and "F" means "fail"

The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented.

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