

FCC Spot Check Test Report

FCC ID : XNAWBS13
Equipment : WITHINGS BODY COMP,
WITHINGS BODY SMART
(Refer to item 1.1.1 for more details)
Model No. : WBS12, WBS13
(Refer to item 1.1.1 for more details)
Brand Name : Withings
Applicant : Withings
Address : 2 rue Maurice Hartmann
92130 Issy-Les-Moulineaux
France
Standard : 47 CFR FCC Part 15.247
Received Date : Dec. 21, 2022
Tested Date : Dec. 26, 2022

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:


Along Chen / Assistant Manager


Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
FR280405-02AC	Rev. 01	Initial issue	Mar. 13, 2023

1 General Description

1.1 Information

1.1.1 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
Withings	WBS12	WITHINGS BODY COMP	Glass design change
Withings	WBS13	WITHINGS BODY SMART	
✦ The above models, model WBS12 was selected as a representative one for the final test and only its data was recorded in this report.			

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
2400-2483.5	b	2412-2462	1-11 [11]	1	1-11 Mbps
2400-2483.5	g	2412-2462	1-11 [11]	1	6-54 Mbps
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	1	MCS 0-7
Note 1: RF output power specifies that Maximum Peak Conducted Output Power. Note 2: DSSS-DBPSK, DQPSK, CCK modulation OFDM- BPSK, QPSK, 16QAM, 64QAM					

1.1.3 Antenna Details

Ant. No.	Brand	Model	Type	Connector	Gain (dBi)
1	BROADCOM	BCM9Fractal64	PCB	NA	2.8

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	4x 1.5V AAA battery
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1.1.5 Accessories

N/A

1.1.6 Test Sample Information

MAC of Test Sample	Radiated Emission: A4:7E:FA:0F:10:7E Antenna Port Conducted: A4:7E:FA:0F:11:08
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2 Referencing Test Data

2.1 Introduction

The variant model (FCC ID: XNAWBS13) references the test data of original model (FCC ID: XNAWBS12).

Reference FCC ID	Equipment Class	Frequency bands	Reference Report Title
XNAWBS12	DTS	2412-2462 MHz	FR280405

Applicant takes full responsibility that the test data as referenced below represents compliance for the FCC ID: XNAWBS13.

2.2 Difference

Difference between FCC ID: XNAWBS13/XNAWBS12 are as below.

Minor change of non-RF function as below

1. Adding filter capacitor to improve performance of RS
2. Change location of components of power supply to RF
3. Change LCD panel and remove relative unnecessary components

Change of Bluetooth function as below

1. Change components of Bluetooth but characteristic is same
2. Layout is modified to improve grounding and increase output power of bluetooth

Size of PCBA is not change

2.3 Spot Check Verification Data

Test Item	Mode	FCC ID: XNAWBS13	FCC ID: XNAWBS12	Difference (dB)
Average Conducted Power (dBm)	802.11b	14.2	14.23	0.03
	802.11g	14.43	14.49	0.06
	802.11n HT20	14.32	14.38	0.06
RSE (Band Edge. Harmonic dBuV/m)	802.11b	45.26	47.88	2.62

2.4 Reference

Equipment Class	Reference FCC ID	Type Grant	Reference application	Reference Report Title
DTS	XNAWBS13	Original	XNAWBS12	FR280405AC

2.5 The Equipment List

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Dec. 26, 2022				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101910	Apr. 08, 2022	Apr. 07, 2023
Power Meter	Anritsu	ML2495A	1241002	Nov. 23, 2022	Nov. 22, 2023
Power Sensor	Anritsu	MA2411B	1207366	Nov. 23, 2022	Nov. 22, 2023
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber 1 / (03CH01-WS)				
Tested Date	Dec. 26, 2022				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Mar. 15, 2022	Mar. 14, 2023
Spectrum Analyzer	R&S	FSV40	101498	Nov. 21, 2022	Nov. 20, 2023
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 01, 2022	Oct. 31, 2023
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Aug. 03, 2022	Aug. 02, 2023
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Nov. 25, 2022	Nov. 24, 2023
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 27, 2022	Oct. 26, 2023
Preamplifier	EMC	EMC02325	980225	Jun. 28, 2022	Jun. 27, 2023
Preamplifier	EMC	EMC118A45SE	980898	Jul. 16, 2022	Jul. 15, 2023
Preamplifier	EMC	EMC184045SE	980903	Jul. 16, 2022	Jul. 15, 2023
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 04, 2022	Oct. 03, 2023
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 04, 2022	Oct. 03, 2023
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 04, 2022	Oct. 03, 2023
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 04, 2022	Oct. 03, 2023
RF Cable	EMC	EMC104-35M-35M- 8000	210920	Oct. 04, 2022	Oct. 03, 2023
RF Cable	EMC	EMC104-35M-35M- 3000	210922	Oct. 04, 2022	Oct. 03, 2023
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

3 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

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No.30-2, Ding Fwu Tsuen, Lin Kou
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Kwei Shan

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No.3-1, Lane 6, Wen San 3rd
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No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

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If you have any suggestion, please feel free to contact us as below information.

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