

TEST REPORT

Product : Sleep Monitor
Trade mark : Luno Sense
Model/Type reference : YBB-FOS3, YBB-THB3, YBB-FOS1,
YBB-FOS2, BB-FOS4, YBB-FOS5,
YBB-FOS6
Serial Number : LUNO-B1260601003,
LUNO-B1260601004,
LUNO-B1260601005
Report Number : EED32S814640
FCC ID : 2BW4YAC-7897-8899
Date of Issue : August 12, 2026
Test Standards : 47 CFR Part 15 Subpart C
Test result : PASS

Prepared for:

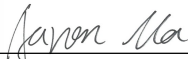
JIAXING UBEBIS INTELLIGENT EQUIPMENT CO LTD
Room 101, Building 1, No. 28, Guigu 5th Road, Luoxing Sub-district,
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Compiled by:



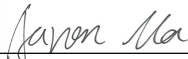
Frazer Li

Reviewed by:



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Date:

August 12, 2026

Check No.: 5651260626

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2 Test Summary

Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	PASS
DTS Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	PASS
Band edge measurements	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
Radiated Spurious Emission & Restricted bands	47 CFR Part 15 Subpart C Section 15.205/15.209	PASS

3 General Information

3.1 Client Information

Applicant:	JIAXING UBEBIS INTELLIGENT EQUIPMENT CO LTD
Address of Applicant:	Room 101, Building 1, No. 28, Guigu 5th Road, Luoxing Sub-district, Jiashan County, Jiaxing City, Zhejiang Province
Manufacturer:	JIAXING UBEBIS INTELLIGENT EQUIPMENT CO LTD
Address of Manufacturer:	Room 101, Building 1, No. 28, Guigu 5th Road, Luoxing Sub-district, Jiashan County, Jiaxing City, Zhejiang Province
Factory:	JIAXING UBEBIS INTELLIGENT EQUIPMENT CO LTD
Address of Factory:	Room 101, Building 1, No. 28, Guigu 5th Road, Luoxing Sub-district, Jiashan County, Jiaxing City, Zhejiang Province

3.2 General Description of EUT

Product Name:	Sleep Monitor						
Model No.:	YBB-FOS3, YBB-THB3, YBB-FOS1, YBB-FOS2, BB-FOS4, YBB-FOS5, YBB-FOS6						
Test Model No.:	YBB-FOS3						
Model difference:	That any of production units bearing the following model numbers have same electrical, PCB and layout, only the sensor model name, sensor size, sensor wires color, cable color, main control box color, soft cover and application scenarios are different for marketing requirements. See below for details. These differences do not affect the radio frequency (RF) performance, electromagnetic compatibility, or any other technical characteristics reported to the FCC. The configuration equipped with sensor model YBB-FOS3 was used as the master test sample for all FCC certification testing. We confirm that the test results obtained from this master configuration are fully representative of and applicable to all other listed configurations.						
	(Optional):						
	Model	Sensor model	Sensor size	Sensor wires color	Main control box color	Cable color	Soft cover
	LUNO	YBB-THB3	470×270mm	White/Black	White/Black	White/Black	Grey/Brown/Black
		YBB-FOS1	555×355mm	White/Black	White/Black	White/Black	Grey/Brown/Black
		YBB-FOS2	725×525mm	White/Black	White/Black	White/Black	Grey/Brown/Black
		YBB-FOS3	725×175mm	White/Black	White/Black	White/Black	Grey/Brown/Black
		YBB-FOS4	1550×725mm	White/Black	White/Black	White/Black	Grey/Brown/Black
		YBB-FOS5	1225×175mm	White/Black	White/Black	White/Black	Grey/Brown/Black
	YBB-FOS6	725×525mm	White/Black	White/Black	White/Black	Grey/Brown/Black	
Trade mark:	Luno Sense						
Product Type:	☐ Mobile ☐ Portable ☒ Fix Location						
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz						
Modulation Type:	IEEE for 802.11b:DSSS(CCK,DQPSK,DBPSK)						

	IEEE for 802.11g:OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40): OFDM (64QAM, 16QAM,QPSK,BPSK)		
Number of Channel:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels		
Channel Separation:	5MHz		
Function	☒ SISO ☐ 2x2 MIMO ☐ 3x3 MIMO ☐ 4x4MIMO		
Antenna Type:	PCB Antenna		
Antenna Gain:	3.26dBi		
Power Supply:	USB Port:	DC 5V	
Test Voltage:	DC 5V		
Sample Received Date:	Jul. 06, 2026		
Sample tested Date:	Jul. 06, 2026 to Jul. 16, 2026		

Operation Frequency each of channel (802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		
Operation Frequency each of channel (802.11n HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/g/n (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The highest channel	2462MHz

802.11n (HT40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The highest channel	2452MHz

3.3 Test Configuration

EUT Test Software Settings:	
Test Software:	EspRFTTestTool_v5.2_Manual.exe
EUT Power Grade:	Default
Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.	
Test Mode:	
We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:	
Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.	
Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)	MCS0
802.11n(HT40)	MCS0
According to ANSI C63.10 standards, the test results are both the “worst case” and “worst setup” 1Mbps for 802.11b, 6Mbps for 802.11g, MCS0 for 802.11n(HT20), MCS0 for 802.11n(HT40).	

3.4 Test Environment

Operating Environment:	
Radiated Spurious Emissions:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar
Conducted Emissions:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar
RF Conducted:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar

3.5 Description of Support Units

The EUT has been tested independently.

3.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd
Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China
Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385
No tests were sub-contracted.
FCC Designation No.: CN1164, Test Firm Registration No.: 260439

3.7 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9×10^{-8}
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-40GHz)
3	Radiated Spurious emission test	3.3dB (9kHz-30MHz)
		4.3dB (30MHz-1GHz)
		4.5dB (1GHz-18GHz)
		3.4dB (18GHz-40GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%

4 Equipment List

RF test system					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Spectrum Analyzer	Keysight	N9020B	MY57110194	2026/4/25	2027/4/24
DC Power	Keysight	E3634A	MY58186018	2026/4/25	2027/4/24
Signal Generator	R&S	SMBV100B	103596	2026/4/25	2027/4/24
Signal Generator	Keysight	N5171B	MY53051074	2026/4/25	2027/4/24
Communication test set	R&S	CMW500	159004	2026/4/25	2027/4/24
Wi-Fi 7GHz Band Extender	TSTPASS	TSTCMWSG EXT7	SN4522048	2026/4/25	2027/4/24
RF control unit(power unit)	TSTPASS	TSCB562R2	SN2949184	2026/4/25	2027/4/24
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	2025/11/13	2026/11/12
Temperature/Humidity Indicator	biaozhi	HM10	1804186	2026/05/22	2027-05/21
BT&Wi-Fi Automatic test system	TSTPASS	---	V2.0.2	---	---