



HEALTH TEST REPORT

For

Linear Dimensions Semiconductor Inc.

Inner Balance™ Coherence Plus

Test Model: LHM2

Prepared for : Linear Dimensions Semiconductor Inc.
Address : 7207 Regency Square Blvd, Suite #235, Houston, TX 77036, USA

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
Address : Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel : (+86)755-82591330
Fax : (+86)755-82591332
Web : www.LCS-cert.com
Mail : webmaster@LCS-cert.com

Date of receipt of test sample : December 22, 2022
Number of tested samples : 2
Serial number : Prototype
Date of Test : December 22, 2022 ~ December 27, 2022
Date of Report : February 26, 2024





HEALTH TEST REPORT EN 62479:2010 & EN 50663: 2017	
Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)	
Report Reference No.	: LCSA122222007E001C
Date of Issue.....	: February 26, 2024
Testing Laboratory Name	: Shenzhen LCS Compliance Testing Laboratory Ltd.
Address.....	: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
Testing Location/ Procedure ...	: Full application of Harmonised standards <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing method <input type="checkbox"/>
Applicant's Name	: Linear Dimensions Semiconductor Inc.
Address.....	: 7207 Regency Square Blvd, Suite #235, Houston, TX 77036, USA
Test Specification	
Standard	: EN 62479: 2010 EN 50663: 2017
Test Report Form No.	: LCSEMC-1.0
TRF Originator	: Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF	: Dated 2011-03
Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen LCS Compliance Testing Laboratory Ltd. is acknowledged as copyright owner and source of the material. Shenzhen LCS Compliance Testing Laboratory Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.	
Test Item Description.	: Inner Balance™ Coherence Plus
Trade Mark	: optional
Test Model	: LHM2
Ratings	: Input:5V DC 3.7V by Rechargeable Li-ion Battery, 120mAh
Result	: Positive

Compiled by:

Diamond Lu/ Administrator

Supervised by:

Cary Luo/ Technique principal

Approved by:

Gavin Liang/ Manager





HEALTH --TEST REPORT

Test Report No. : LCSA122222007E001C	<u>February 26, 2024</u> Date of issue
---	---

Test Model	: LHM2
EUT.....	: Inner Balance™ Coherence Plus
Applicant.....	: Linear Dimensions Semiconductor Inc.
Address.....	: 7207 Regency Square Blvd, Suite #235, Houston, TX 77036, USA
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Linear Dimensions Semiconductor Inc.
Address.....	: 7207 Regency Square Blvd, Suite #235, Houston, TX 77036, USA
Telephone.....	: /
Fax.....	: /
Factory.....	: Linear Dimensions Semiconductor Inc.
Address.....	: 7207 Regency Square Blvd, Suite #235, Houston, TX 77036, USA
Telephone.....	: /
Fax.....	: /

Test Result	Positive
--------------------	-----------------

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.





Revision History

Report Version	Issue Date	Revision Content	Revised By
000	December 27, 2022	Initial Issue	--
001	February 26, 2024	Heartrate monitor earlobe	Inner Balance™ Coherence Plus





1. GENERAL INFORMATION

1.1. Product Description for Equipment Under Test (EUT)

EUT : Inner Balance™ Coherence Plus
Test Model : LHM2
Power Supply : Input:5V
DC 3.7V by Rechargeable Li-ion Battery, 120mAh
Hardware Version : /
Software Version : /
Bluetooth :
Frequency Range : 2402MHz ~ 2480MHz
Channel Number : 40 channels for Bluetooth V5.1 (BT LE)
Channel Spacing : 2MHz for Bluetooth V5.1 (BT LE)
Modulation Type : GFSK for Bluetooth V5.1 (BT LE)
Bluetooth Version : V5.1
Antenna Description : Internal Antenna, 0dBi(Max.)





1.2. Objective

According to its specifications, the EUT must comply with the requirements of the following standards:

EN 62479:2010 – Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)

EN 50663: 2017 – Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)

1.3. Test Methodology

All measurements contained in this report were conducted with EN 62479:2010 and EN 50663: 2017.

1.4. Facilities

All measurement facilities used to collect the measurement data are located at Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China .

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 32.

1.5. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
OPPO	Adapter	OP52KAUH	--	CE

Note: Auxiliary equipment is provided by the laboratory.

1.6. External I/O Cable

I/O Port Description	Quantity	Cable
Power Port	1	N/A





1.7. Equipment

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

1.8. Laboratory Accreditations And Listings

Site Description

EMC Lab. : NVLAP Accreditation Code is 600167-0.
FCC Designation Number is CN5024.
CAB identifier is CN0071.
CNAS Registration Number is L4595.

Name of Firm : Shenzhen LCS Compliance Testing Laboratory Ltd.

Site Location : Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

1.9. Measurement Uncertainty

Test Item	Uncertainty
Radio Frequency	: 0.9 x 10 ⁻⁴
Total RF Power, Conducted	: 1.0 dB
RF Power Density, Conducted	: 1.8 dB
Spurious Emissions, Conducted	: 1.8 dB
All Emissions, Radiated	: 3.1 dB
Temperature	: 0.5°C
Humidity	: 1 %
DC And Low Frequency Voltages	: 1 %





2. HUMAN EXPOSURE TO THE ELECTROMAGNETIC FIELDS

2.1 Test Methodology

2.1.1. General description of applied standards

According to its specifications, the EUT must comply with the requirements of the following standards:

EN 62479- Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)

EN 50663- Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz).

2.1.2. Description of test modes

The EUT has been tested under its typical operating condition. Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

2.2 Test limit

If the average power emitted by apparatus operating in the frequency range 10 MHz – 300GHz is less than or equal to 20 mW and the transmitting peak power is less than 20 W then the apparatus is deemed to comply with the basic restrictions without testing.

2.3 Test Results

Since Max. output power for Bluetooth is 0.67mW (-1.75dBm According to radio test report LCSA122222007EB) less than 20mW specified in EN 62479 and EN 50663. This unit will not generate the harmful EM emission above the reference level as specified in EC Council Recommendation (1999/519/EC).

The unit complies with the EN 62479 and EN 50663 for RF exposure requirement.

No non-compliance noted.

-----THE END OF TEST REPORT-----



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity