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LOFREE Flow Lite 100 Keys

LOFREE Flow Lite 100 Keys Low Profile Mechanical Keyboard User Manual

Model: OE922

1. Introduction

This manual provides detailed instructions for the LOFREE Flow Lite 100 Keys Low Profile Mechanical Keyboard. It covers setup, operation, maintenance, and troubleshooting to ensure optimal performance and user experience. The Flow Lite keyboard features a compact 100-key layout, low-profile Specter linear switches, multi-mode connectivity (2.4GHz wireless, Bluetooth, USB-C wired), and PBT double-shot keycaps.

Image 1.1: LOFREE Flow Lite 100 Keys Low Profile Mechanical Keyboard (Off-White).

2. Setup

2.1. Package Contents

- LOFREE Flow Lite 100 Keys Mechanical Keyboard
- USB-C Cable
- 2.4G Wireless Receiver (located in the keyboard's storage slot)
- User Manual (this document)

2.2. Initial Charging

Before first use, it is recommended to fully charge the keyboard. Connect the supplied USB-C cable to the keyboard's USB-C port and the other end to a power source (e.g., computer USB port, USB wall adapter). The keyboard features a built-in 3000mAh lithium battery, providing up to 100 hours of working time with all lights off. A full charge typically takes approximately 3 hours.

2.3. Connectivity Modes

The Flow Lite keyboard supports three connection modes: 2.4GHz Wireless, Bluetooth, and Wired (USB-C).

Image 2.1: The keyboard offers flexible 3-mode connectivity: Bluetooth, 2.4GHz wireless, and wired USB-C.

2.3.1. 2.4GHz Wireless Connection

1. Locate the 2.4G wireless receiver in the storage slot on the keyboard.
2. Plug the 2.4G receiver into an available USB port on your computer.
3. Toggle the connection switch on the keyboard to the 2.4G wireless mode. The keyboard will automatically connect.

2.3.2. Bluetooth Connection

1. Toggle the connection switch on the keyboard to Bluetooth mode.
2. On your device (computer, tablet, smartphone), enable Bluetooth and search for new devices.
3. Select "LOFREE Flow Lite" from the list of available devices to pair.
4. The keyboard can store up to three Bluetooth connections. Use Fn + 1, Fn + 2, or Fn + 3 to switch between paired devices.

2.3.3. Wired USB-C Connection

1. Connect the supplied USB-C cable to the keyboard's USB-C port.
2. Connect the other end of the USB-C cable to an available USB port on your computer.
3. Toggle the connection switch on the keyboard to wired mode. The keyboard will function as a wired device and charge simultaneously.

2.4. Adjustable Kickstand

The keyboard features a built-in adjustable kickstand, allowing you to set the typing angle to either 3 or 6 degrees for ergonomic comfort.

Image 2.2: The keyboard's adjustable kickstand offers two typing angles (3 and 6 degrees).

3. Operating Instructions

3.1. Key Functions

The Flow Lite keyboard includes standard alphanumeric keys, a numeric keypad, and function keys with secondary media and control functions accessible via the Fn key.

- **Fn + F1-F12:** Access media controls, backlight settings, and other system functions. Refer to the keycap legends for specific functions.
- **Volume Roller:** An aluminum roller located on the top right allows for intuitive volume adjustment. Roll up to increase volume, roll down to decrease. Press to mute/unmute.

Image 3.1: The integrated volume roller provides convenient audio control.

3.2. Backlighting

The keyboard features single-color backlighting. Use the Fn key in combination with designated function keys (e.g., Fn + F5/F6) to adjust brightness or change backlight patterns. The PBT double-shot keycaps are designed for shine-through, ensuring clear visibility of characters.

Image 3.2: PBT double-shot keycaps with PC elements for effective backlighting shine-through.

3.3. Lofree Key Mapper Software

Customize key assignments and lighting effects using the Lofree Key Mapper software. This software is designed exclusively for the Flow Lite series and is compatible with Windows operating systems only.

Image 3.3: The Lofree Key Mapper software allows for personalized keyboard configuration (Windows only).

3.4. 1000Hz Polling Rate

The keyboard supports a 1000Hz polling rate in 2.4GHz wireless mode, providing fast and responsive performance comparable to wired connections, suitable for demanding tasks and gaming.

Image 3.4: The keyboard delivers a 1000Hz polling rate for responsive input.

4. Maintenance

4.1. Cleaning

To clean the keyboard, power it off and disconnect any cables. Use a soft, lint-free cloth slightly dampened with water or a mild cleaning solution. Avoid harsh chemicals or abrasive materials. For cleaning between keycaps, use compressed air or a small brush.

4.2. Battery Care

To prolong battery life, avoid fully discharging the keyboard frequently. Store the keyboard in a cool, dry place when not in use for extended periods. Charge the battery regularly, even if not used daily.

5. Troubleshooting

- **Keyboard not responding:** Ensure the keyboard is charged. Check the connection mode switch (2.4G, Bluetooth, or Wired) and ensure it matches your intended connection. For 2.4G, verify the receiver is properly inserted. For

Bluetooth, ensure it's paired correctly and your device's Bluetooth is active. For wired, check the USB-C cable connection.

- **Intermittent connection:** Move the keyboard closer to the receiver/device for wireless connections. Avoid sources of interference (e.g., other wireless devices, large metal objects).
- **Backlight not working:** Ensure the backlight is enabled and brightness is adjusted using the Fn key combinations. Check battery level; low battery may disable backlighting.
- **Keys not registering:** If specific keys are not working, ensure they are properly seated. The keyboard features hot-swappable switches, allowing for easy replacement if a switch is faulty.
- **Lofree Key Mapper not detecting keyboard:** Ensure the keyboard is connected via USB-C and the software is up to date. Remember the software is Windows-only.

6. Specifications

Product Dimensions	14.74 x 5.43 x 0.93 inches
Item Weight	2.14 pounds
Manufacturer	LOFREE
Item Model Number	OE922
Batteries	1 Lithium Polymer batteries required (included)
Compatible Devices	Laptop, PC
Connectivity Technology	Bluetooth, USB-C, 2.4G Wi-Fi
Keyboard Description	Mechanical
Special Features	Backlit, Hot-Swappable, Hotkeys and Media Keys, Low-Profile Key, Volume Roller
Keyboard Backlighting Color Support	Single Color
Material	Acrylonitrile Butadiene Styrene (ABS)

6.1. Specter Linear Switches

The Flow Lite keyboard is equipped with Specter Full POM Linear Switches, co-developed with Kailh. These low-profile switches feature a light actuation force of 40gf, designed to reduce finger fatigue during extended typing sessions.

Image 6.1: Specter Full POM Linear Switches, featuring a 40gf actuation force for a light and delicate touch.

6.2. Gasket Design

The keyboard incorporates a gasket-mounted design with multiple sound-dampening layers, including silicon gaskets, sandwich silicone pad, IXPE pad, and sound-absorbing PU foam. This construction provides a soft, cushioned typing feel and a richer acoustic profile for each keystroke.

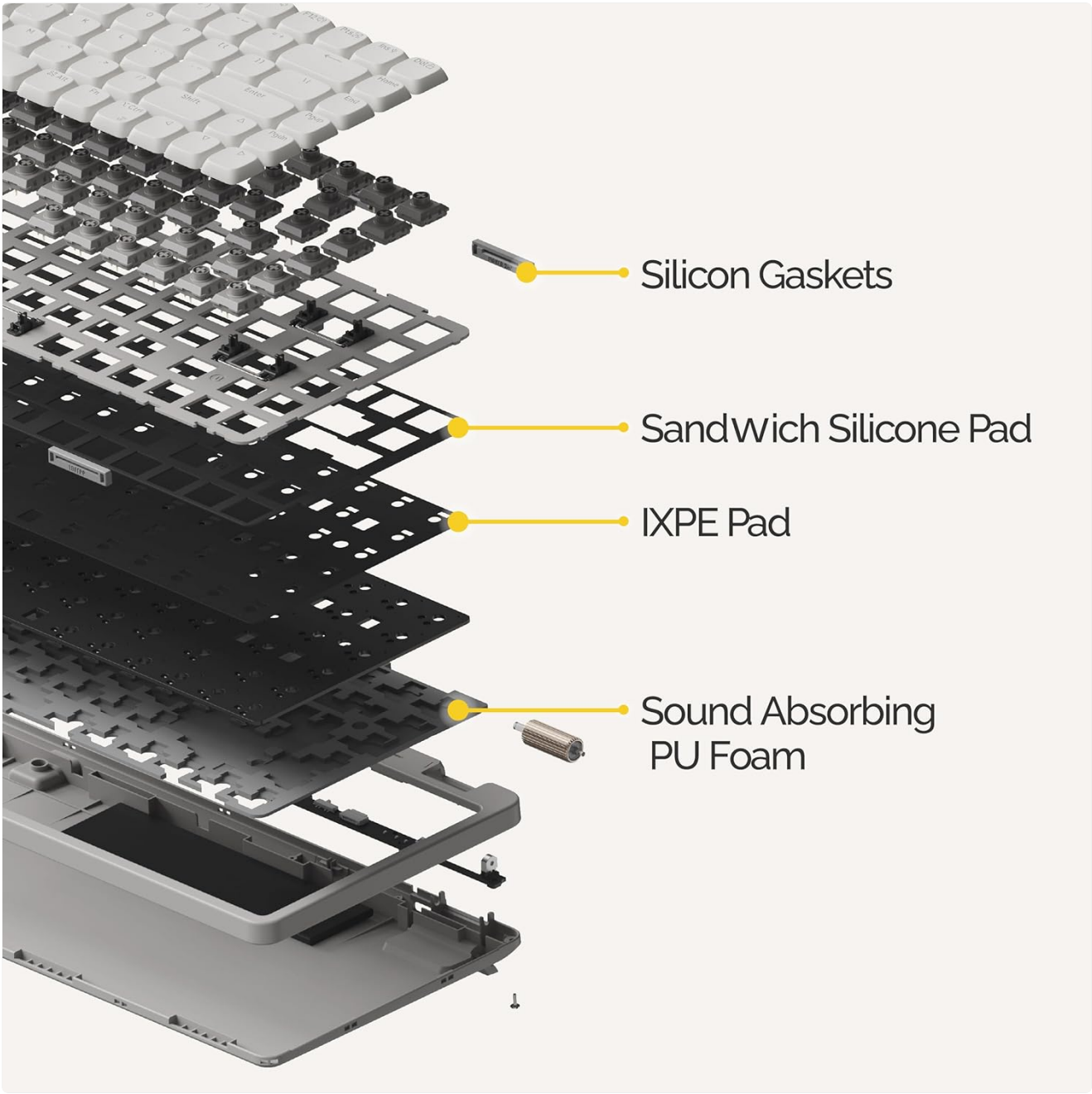


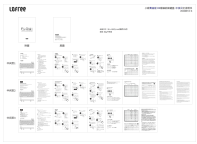
Image 6.2: Exploded view illustrating the multi-layered gasket design for enhanced typing feel and sound.

7. Warranty and Support

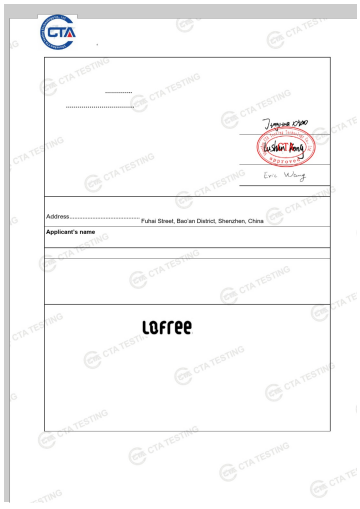
LOFREE products are covered by a manufacturer's warranty against defects in materials and workmanship. For specific warranty terms, duration, and to register your product, please refer to the official LOFREE website or contact their customer support directly. Keep your proof of purchase for warranty claims.
For technical assistance, troubleshooting not covered in this manual, or general inquiries, please visit the LOFREE support page or contact their customer service team.

- **LOFREE Official Website:** www.lofree.co
- **Customer Support:** Refer to the website for contact information.

Related Documents - Flow Lite 100 Keys

	[LOFREE FLOW Lite 100-Key Mechanical Keyboard User Manual] User manual for the LOFREE FLOW Lite 100-Key Triple Mode Low-Profile Mechanical Keyboard. Includes setup, operation, and regulatory information.
	[Lofree FLOW Lite 84-Key Triple Mode Low-Profile Mechanical Keyboard User Manual] Comprehensive user manual for the Lofree FLOW Lite 84-Key Triple Mode Low-Profile Mechanical Keyboard, covering specifications, detailed operation, connection modes (wired, Bluetooth, 2.4G), multimedia functions, system switching, hazardous substances, environmental protection, FCC, and ISED statements.
	[Lofree Flow 84-Key Dual Mode Low-Profile Mechanical Keyboard Manual] User manual for the Lofree Flow 84-Key Dual Mode Low-Profile Mechanical Keyboard, detailing specifications, diagrams, connectivity, and function key usage.
	[Lofree Flow Lite 100 Mechanical Keyboard User Manual] User guide for the Lofree Flow Lite 100 low-profile mechanical keyboard, detailing setup, connectivity (wired, Bluetooth, 2.4G), backlight control, system switching, and key functions. Includes product specifications and compliance information.
	[Lofree FLOW 100-Key Dual Mode Low Profile Mechanical Keyboard User Manual] Comprehensive user manual for the Lofree FLOW 100-Key Dual Mode Low Profile Mechanical Keyboard, covering setup, features, operation, and safety information.
	[Lofree FLOW 84 Mechanical Keyboard User Manual - Setup, Features, and Specifications] Comprehensive user manual for the Lofree FLOW 84 dual-mode mechanical keyboard. Learn about setup, Bluetooth and wired connections, system switching, multifunction keys, and technical specifications.

Documents - LOFREE – Flow Lite 100 Keys



[LOFREE FLOW Lite OE922 Mechanical Keyboard FCC Test Report]
Official FCC test report for the LOFREE FLOW Lite 100-Key Triple Mode Low-Profile Mechanical Keyboard (Model OE922), detailing compliance with FCC Rules Part 15.249 for wireless emissions.
lang:en score:31 filesize: 1.28 M page_count: 23 document date: 2024-07-22

SHENZHEN LOFREE CULTURE CO., LTD
201-F4, F518 Idea Land, 1065 Bao Yuan Road,Shenzhen China

Federal Communications Commission
Authorization and Evaluation Division
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MD 21046

2024-7-22

To whom it may concern:

We, the undersigned, hereby authorize Eurofins Product Service GmbH to act on our behalf in all matters relating to applications for equipment authorization FCC ID: **2AC59-OE922** including the signing of all documents related to these matters.
Any and all acts carried out by Eurofins Product Service GmbH on our behalf shall have the same effect as acts of our own.
By signing this application form, we agree to Eurofins' current valid General Terms and Conditions (AGB),Testing and Certification Regulations (PZO) which can be viewed on following website www.eurofins.de/ex or retrieved on request.
We also hereby certify that no party to this application is subject to a denial of benefits, including FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862.

Sincerely,

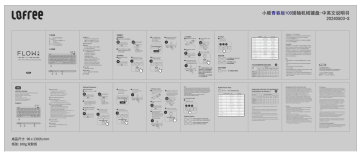
Maggie Li

Name/Title: Maggie Li/Manager
Company: SHENZHEN LOFREE CULTURE CO., LTD
Address: 201-F4, F518 Idea Land, 1065 Bao Yuan Road,Shenzhen China
Phone: 0755-29035602
Fax: 0755-29035153
E-Mail: maggie@lofree.com.cn

[LOFREE OE922 Flow Lite Mechanical Keyboard FCC Authorization Letter]

Authorization letter from SHENZHEN LOFREE CULTURE CO., LTD for FCC certification of the LOFREE OE922 Flow Lite mechanical keyboard, designating Eurofins Product Service GmbH as agent.

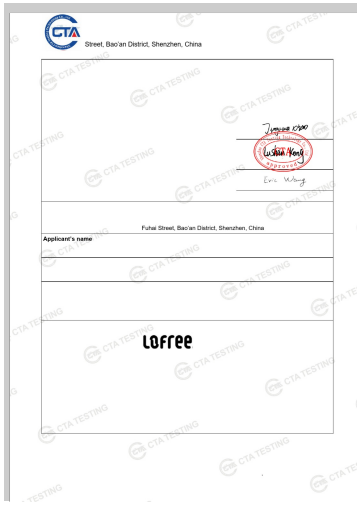
lang:en score:25 filesize: 120.79 K page_count: 1 document date: 2024-07-22



[LOFREE FLOW Lite 100-Key Mechanical Keyboard User Manual]

User manual for the LOFREE FLOW Lite 100-Key Triple Mode Low-Profile Mechanical Keyboard. Includes setup, operation, and regulatory information.

lang:fr score:22 filesize: 3.96 M page_count: 2 document date: 2024-07-22



[pdf] Specifications Test Report

Test Report BT SHENZHEN LOFREE CULTURE CO LTD OE922 2AC59 2AC59OE922 oe922

Shenzhen CTA Testing Technology Co., Ltd. Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao an District, Shenzhen, China FCC PART 15 SUBPART C TEST REPORT FCC PART 15.247 Report Reference No..... : CTA24061701202 FCC ID.....

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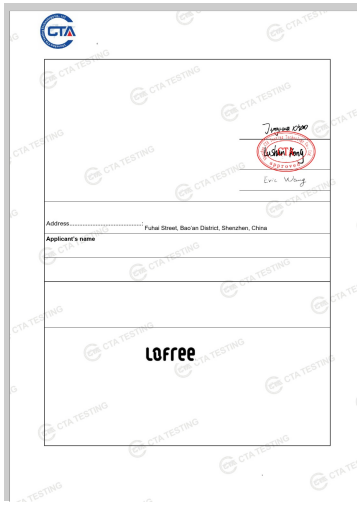

[pdf] Specifications Test Report

Test Report BLE SHENZHEN LOFREE CULTURE CO LTD OE922 2AC59 2AC59OE922 oe922

Shenzhen CTA Testing Technology Co., Ltd. Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao an District, Shenzhen, China FCC PART 15 SUBPART C TEST REPORT FCC PART 15.247 Report Reference No.....: CTA24061701201 FCC ID.....

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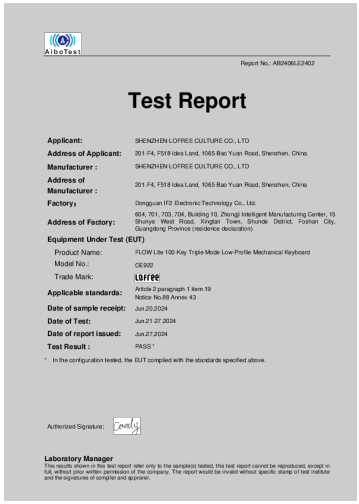

Report No.: AB2406LE2402

Test Report

Applicant:	SHENZHEN LOFREE CULTURE CO., LTD
Address of Applicant:	201-F4, F518 Idea Land, 1065 Bao Yuan Road, Shenzhen, China
Manufacturer :	SHENZHEN LOFREE CULTURE CO., LTD
Address of Manufacturer :	201-F4, F518 Idea Land, 1065 Bao Yuan Road, Shenzhen, China
Factory :	Dongguan IF2 Electronic Technology Co., Ltd.
Address of Factory:	604, 701, 703, 704, Building 10, Zhongji Intelligent Manufacturing Center, 15 Shunye West Road, Xingtan Town, Shunde District, Foshan City, Guangdong Province (residence declaration)
Equipment Under Test (EUT)	
Product Name:	FLOW Lite 100-Key Triple-Mode Low-Profile Mechanical Keyboard
Model No.:	OE922
Trade Mark:	LOFREE
Applicable standards:	Article 2 paragraph 1 item 19 Notice No.88 Annex 43
Date of sample receipt:	Jun.20.2024
Date of Test:	Jun.21-27.2024
Date of report issued:	Jun.27.2024
Test Result :	PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

[pdf] Decleration of Conformity Test Report

Test Report SHENZHEN LOFREE CULTURE CO LTD Address of Applicant 201 F4 F518 OE922 Operation Frequency 2402MHz~2480MHz Channel Numbers 40 219 249254 02 003 tele soumu go jp giteki SearchServlet2 PageID jt01 ATF 155915003 |||

Report No.: AB2406LE2402 Test Report Applicant: SHENZHEN LOFREE CULTURE CO., LTD Address of Applicant: 201-F4, F518 Idea Land, 1065 Bao Yuan Road, Shenzhen, China Manufacturer : SHENZHEN LOFREE CULTURE CO., LTD Address of Manufacturer : 201-F4, F518 Idea Land, 1065 Bao Yuan Road, Shenzhen, Ch...

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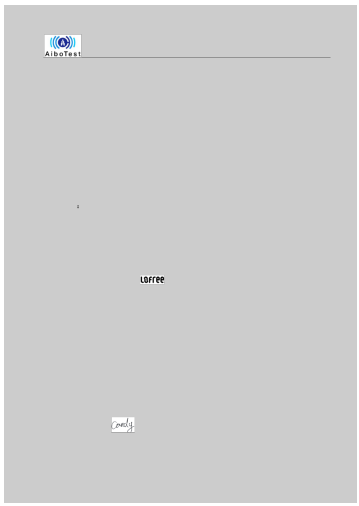

LOFREE

[pdf] Decleration of Conformity Test Report

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Report No.: AB2406BR2402 Test Report Applicant: Address of Applicant: SHENZHEN LOFREE CULTURE CO., LTD 201-F4, F518 Idea Land, 1065 Bao Yuan Road, Shenzhen, China Manufacturer : SHENZHEN LOFREE CULTURE CO., LTD Address of Manufacturer : 201-F4, F518 Idea Land, 1065 Bao Yuan Road, Shenzhen, Chi...

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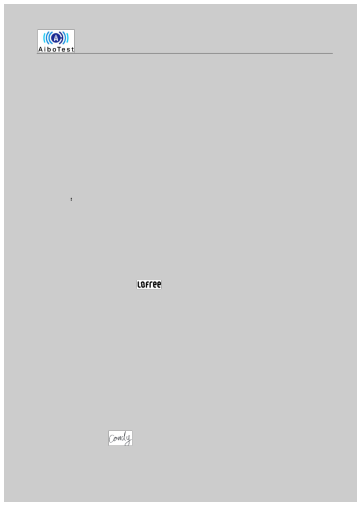

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[pdf] Decleration of Conformity Test Report

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Report No.: AB2406WF2402 Test Report Applicant: SHENZHEN LOFREE CULTURE CO., LTD Address of Applicant: 201-F4, F518 Idea Land, 1065 Bao Yuan Road, Shenzhen, China Manufacturer : SHENZHEN LOFREE CULTURE CO., LTD Address of Manufacturer : 201-F4, F518 Idea Land, 1065 Bao Yuan Road, Shenzhen, C...

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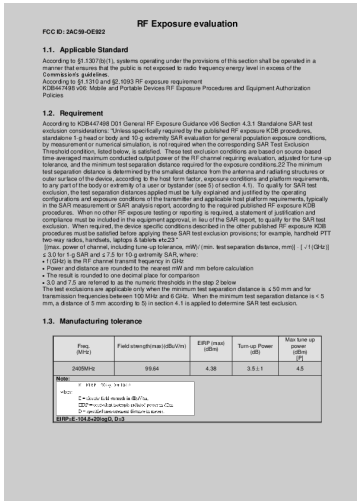

RF Exposure evaluation

FCC ID: 2AC59-OE922

1.1. Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.
According to §1.1310 and §2.1093 RF exposure requirement
KDB447498 v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies

1.2. Requirement

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions of the transmitter operation to a user or bystander, determined by the smallest distance from the antenna and radiating structures or feed point to the user or bystander, according to the following and the applicable host platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc.23".
[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f (GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:
• f (GHz) is the RF channel transmit frequency in GHz
• Power and distance are rounded to the nearest mW and mm before calculation
• The result is rounded to one decimal place for comparison
• 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below
The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

1.3. Manufacturing tolerance

Freq. (MHz)	Field strength(max)(dBuV/m)	EIRP (max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) (P)
2405MHz	99.64	4.38	3.5±1	4.5

Note:

EIRP=E-104.8+20log(D, D=3

[pdf] SAR Rating

RF Exposure info SHENZHEN LOFREE CULTURE CO LTD OE922 FLOW Lite 100 Key Triple Mode Low Profile Mechanical Keyboard 2AC59 2AC59OE922 oe922

FCC ID: 2AC59-OE922 RF Exposure evaluation 1.1. Applicable Standard According to 1.1307 b 1 , systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission s guidelines. ...

lang:en score:14 filesize: 152.38 K page_count: 2 document date: 2024-07-22