

Address

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RF Exposure Evaluation

FOR

Shenzhen Onail Technology Co., Ltd

Wireless Keyboard

Test Model: SUNX-BK

Prepared for Shenzhen Onail Technology Co.,Ltd

Room 1903&1905, Xingtong Building, No.88 Baoxing Road, Bao'an

District Shenzhen Guangdong China

webmaster@LCS-cert.com

Shenzhen LCS Compliance Testing Laboratory Ltd Prepared by

101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,

Shajing Street, Baoan District, Shenzhen, 518000, China

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

Date of receipt of test sample April 15, 2025

Number of tested samples 2

Sample No. A250207025-1, A250207025-2

Sample number Prototype

Date of Test April 15, 2025 ~ April 29, 2025

Date of Report April 30, 2025





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FCC ID: 2BO6Z-SUNX-BK

RF Exposure Evaluation

Report Reference No.: LCSA02105069EB

Date of Issue: April 30, 2025

Testing Laboratory Name.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Shajing Street, Baoan District, Shenzhen, 518000, China

Report No.: LCSA02105069EB

Testing Location/ Procedure Partial application of Harmonised standards

Other standard testing method

Applicant's Name.....: Shenzhen Onail Technology Co.,Ltd

District Shenzhen Guangdong China

Test Specification

Standard.....: FCC KDB publication 447498 D01 General 1 RF Exposure

Guidance v06

FCC CFR 47 part1 1.1310 FCC CFR 47 part2 2.1093

Test Report Form No. : TRF-4-E-215 A/0

TRF Originator: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF: Dated 2011-03

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Test Item Description.: Wireless Keyboard

Trade Mark.....: N/A

Test Model: SUNX-BK

Ratings: Input: DC 5V, 1A

DC 3.7V, 1000mAh by rechargeable battery

Result: Pass

Compiled by:

Supervised by:

Approved by:

Nadia Zhou/ Administrator

Jack Liu/ Technique principal

Gavin Liang/ Manager



Report No.: LCSA02105069EB



RF Exposure Evaluation

Test Report No. :	LCSA02105069EB	April 30, 2025 Date of issue
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Test Model	: SUNX-BK
EUTIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	: Wireless Keyboard
Applicant	: Shenzhen Onail Technology Co.,Ltd
Address	Room 1903&1905, Xingtong Building, No.88 Baoxing Road, Bao'an District Shenzhen Guangdong China
Telephone	: /
Fax	:/
Manufacturer	: Shenzhen Onail Technology Co.,Ltd
Address	: Room 1903&1905, Xingtong Building, No.88 Baoxing Road, Bao'an District Shenzhen Guangdong China
Telephone	:/
Fax	: /
Factory	: Zhongshan Sunclean Co.,Ltd
Address	: F/2,F/5, F/6 #1, F/8 #2 ,Building G, NO.3 of Huanzhen North 13 RD,
可檢測股份	XinFeng Village Henglan Town, Zhongshan, Guangdong P.R. CHINA
Telephone	:/ KS 工资 Ting Lab
Fax	: /

Test Result	Pass
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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.





FCC ID: 2BO6Z-SUNX-BK

Revision History

	Revis	ion History	
Report Version	Issue Date	Revision Content	Revised By
000	April 30, 2025	Initial Issue	

Report No.: LCSA02105069EB











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FCC RF Exposure Evaluation

EUT	: Wireless Keyboard	
Test Model	: SUNX-BK	
Ratings	: Input: DC 5V, 1A DC 3.7V, 1000mAh by rechargeable ba	attery
Hardware Version	: V1.0	
Software Version	: /	
2.4G	:	
Frequency Range	: 2403MHz-2479MHz	TiH位illing Lab
Channel Number	: 3 channels	LCS TOS
Modulation Type	: GFSK	
Antenna Description	: PCB Antenna, 2.1dBi(Max.)	
Exposure category	: General population/uncontrolled enviro	nment
EUT Type	: Production Unit	
Device Type	: Portable Device	

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.



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2.Evaluation method and Limit

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.22 The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and 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."

[(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] \cdot [\sqrt{f} (GHz)] \leq 3.0 for 1-g SAR and \leq 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 \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm according to f) in section 4.1 is applied to determine SAR test exclusion.

When one of the following test exclusion conditions is satisfied for all combinations of simultaneous transmission configurations, further equipment approval is not required to incorporate transmitter modules in host devices that operate in the mixed mobile and portable host platform exposure conditions. The grantee is responsible for documenting this according to Class I permissive change requirements. Antennas that qualify for standalone SAR test exclusion must apply the estimated standalone SAR to determine simultaneous transmission test exclusion.

- a) The [\sum of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg] + [\sum of MPE ratios] is \leq 1.0.
- b) b) The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all \leq 0.04, and the [\sum of MPE ratios] is \leq 1.0.

3. Refer Evaluation Method

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

FCC KDB publication 447498 D01 General 1 RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.

FCC CFR 47 part2 2.1093: Radiofrequency radiation exposure evaluation: portable devices



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4. Conducted Power Test Procedure

TX frequency range: 2479MHz

Device category: Portable device (Distance: 5mm) Max.

Field Strength: 91.38dBuV/m @3m

EIRP=E-104.8+20logD=91.38-104.8+20log3=-3.88dBm

Maximum Conducted Output Power: -3.88-2.1=-5.98dBm

Turn-up: -5±1

5. Evaluation Results

·	iiaatioii itosait						
		Frequency	Antenna	RF outp	ut power	SAR Test	SAR Test
	Band/Mode	(GHz)	Distance (mm)	dBm	mW	Exclusion Threshold	Exclusion
	GFSK	2.479	5	-4.0	0.3981	0.1254< 3.0	Yes

Remark:

1. Output power including tune up tolerance;

2. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f) in section 4.1 is applied to determine SAR test exclusion.

6. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

7. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024

CAB identifier is CN0071.

CNAS Registration Number is L4595. Test Firm Registration Number: 254912.

8. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
		9KHz~30MHz	±3.10dB	(1)
		30MHz~200MHz	±2.96dB	(1)
Radiation Uncertainty	:	200MHz~1000MHz	±3.10dB	(1)
及到限分		1GHz~26.5GHz	±3.80dB	(1)
立 ith fix the Lab		26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)
Occupied Channel		1GHz-40GHz	±5%	(1)
Bandwidth				

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

THE END OF REPORT



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