

Report No.: GZCR210602052403

Page: 1 of 8 FCC ID: 2A2KJ-9002S FCC ID: 2A2KJ-9002SD

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2106020524AT

Applicant: LEXIP SAS

Address of Applicant: 45 route d'Apremont 73000 Barberaz, France

Manufacturer: Dongguan Suoai Electronica Co., Ltd

Address of Manufacturer: No.3 Huayu Street, Changlong Village, Huangjiang Town, Dongguan City

Factory: Dongguan Suoai Electronica Co., Ltd

Address of Factory: No.3 Huayu Street, Changlong Village, Huangjiang Town, Dongguan City

Equipment Under Test (EUT):

EUT Name: Wireless mouse

Model No.: Ar18
Trade Mark: LEXIP

Standard(s): 47 CFR Part 1.1307

KDB447498D01 General RF Exposure Guidance v06

 Date of Receipt:
 2021-06-29

 Date of Evaluation:
 2021-11-01

 Date of Issue:
 2021-11-12

Evaluation Result: Pass*

Kobe Jian EMC Laboratory Manager

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^{*} In the configuration evaluated, the EUT complied with the standards specified above.



EMC-TRF-03 Rev 1.0

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

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Revision Record						
Version	Chapter	Date	Modifier	Remark		
01		2021-11-12		Original		

Authorized for issue by:		
	Coly knong	
	Lily Kuang/Project Engineer	
	Riday Lin	
	Ricky Liu/Reviewer	



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2 Evaluation Summary

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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4 General Information

4.1 Details of E.U.T.

Power supply: Powered by built-in battery as below

Rated: DC 3.7V 450mAh rechargeable battery

DC 5V for charging mode

Operation Frequency: 2402MHz to 2479MHz

Modulation Type: GFSK Number of Channels: 16 Channel Spacing: 5MHz

Spectrum Spread

Technology: Frequency Hopping Spread Spectrum(FHSS)

For mouse:

Hardware Version: E478338 Firmware Version: V1.1

S/N: SP-2021061001

Test Software Version: 2.4G EMI test software

Power setting level 4 dBm can not changed by user

For Dongle:

Hardware Version: LXD BK2451

Firmware Version: V1.1

S/N: SP-20170825

Test Software Version: 2.4G EMI test software

Power setting level -11dBm can not changed by user

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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4.4 Facility

The facility is recognized, certified, or accredited by the following organizations:

NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

• SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

• FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

• ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

• VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

• CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None



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4.7 RF Exposure

4.7.1 Test Requirement:

Limit:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ 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 ¹⁷
☐ The result is rounded to one decimal place for comparison
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 is applied to determine SAR test exclusion

4.7.2 Conclusion

For mouse:

The Mas Conducted Peak Output power is 3.7dBm on the lowest channel 2.402GHz 3.70 dBm logarithmic terms convert to numeric result is nearly 2.34 mW According to the formula. calculate the test exclusion thresholds: [(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}]$ General RF Exposure = (2.34 mW / 5 mm) x $\sqrt{2.402}$ GHz = 0.73 (1) SAR requirement: S = 3.0 (2) (1) < (2) So the SAR report is not required.

For Dongle;

The Mas Conducted Peak Output power is -11.2dBm on the lowest channel 2.402GHz

-11.20 dBm logarithmic terms convert to numeric result is nearly 0.08 mW		
According to the formula. calculate the test exclusion thresholds:		
[(max. power of channel, including tune-up tolerance, mW)/		
(min. test separation distance, mm)] · [√f(GHz)]		
General RF Exposure = $(0.08 \text{ mW} / 5 \text{ mm}) \text{ x } \sqrt{2.402 \text{ GHz}} = 0.02$	(1)	
SAR requirement:		
S = 3.0	(2)	
(1) < (2)		
So the SAR report is not required.		



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5 EUT Constructional Details (EUT Photos)

Refer to Appendix_ External and Internal photo for GZCR2106020524AT for dongle and mouse.

- End of the Report -



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