TEST REPORT

Application No.:	GZCR2504000570HS
Applicant:	STEPR Pty Ltd
Address of Applicant:	2 Activity Crescent, Molendinar, Queensland 4214, AUSTRALIA
Manufacturer:	STEPR Inc
Address of Manufacturer:	300 Delaware Ave. Suite 210 #524, Wilmington, DE 19801 United States.
Factory:	Xiamen K-power Sports Co., Ltd
Address of Factory:	No.1333 Tonghui Nan Road, Tong'An, Xiamen, Fujian, China
Product Name:	STEPR XL Stair Climber
Model No.:	STEPR-XL-H, STEPR-XL-CL ♣
♣	Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.
Trade Mark:	STEPR
Standard(s) :	47 CFR Part 1.1310
	KDB 680106 D01 v04
	KDB 447498 D01 General Radio Frequency Exposure Guidelines v06
Date of Receipt:	2025-04-18
Date of Test:	2025-06-25
Date of Issue:	2025-06-25
Test Result:	**Pass***

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

Ricky Liu
Manager

Revision Record			
Version	**Report No.**	**Date**	**Remark**
01	GZCR250400057003	2025-06-25	Original

Authorized for issue by:				
		Luke Lin **Luke Lin/Project Engineer**		
		Vico Cui **Vico Cui/Reviewer**		

SGS-CSTC Standards Technical Services Co.,Ltd. Guangzhou Branch Testing Center EEC Laboratory.
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2 Test Summary

Item	Standard	Method	Requirement	Result
Field Strength	KDB 680106 D01 v04	KDB 680106 D01 v04	47 CFR Part 1.1310 & KDB 680106 D01	Pass
RF Exposure	KDB 447498 D01 v06	KDB 447498 D01 v06	47 CFR Part 1.1310	Pass

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.

♣ Declaration of EUT Family Grouping:

Model No.: STEPR-XL-H, STEPR-XL-CL

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on display board.

Therefore, only one model STEPR-XL-H WPC function was tested in this report.

3 Contents

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4 General Information

4.1 Details of E.U.T.

Power supply:	AC 100-240V, 50/60Hz
Test voltage:	AC 120V, 60Hz
Cable(s):	AC mains, 3 wires, 1.8m, unshielded.
	USB 2.0 Port x1pcs.
	USB-C Port x1pcs.
	Aux In Port x1pcs.
Operation frequency:	111.31 kHz to 149.65 kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna
Antenna Number:	1

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile Phone	SAMSUNG	SM-G9508	R28K110W9JV
Mobile Phone	SAMSUNG	SM-G9810	RFCN309Q9QF
Mobile Phone	APPLE	iPhone 12 mini	F71DP3NG0GQY
Wireless Charging Load	/	/	/

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Field Strength	MF:U=0.13dB,EF:U=0.4dB
Remark: The U_{lab} (lab Uncertainty) is less than U_{cispr} (CISPR Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.	

4.4 Test Location

All tests were performed at:

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

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.

4.5 Test Facility

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

- **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.

- **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.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

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5 Equipment List

Field Strength					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
743 Compact 3m Semi-Anechoic Chamber	ChangZhou ZhongYu	N/A	EMC0525	2022-10-16	2025-10-15
MAGPy-8H3D+E3D	SPEAG	MAGPy	SEMC060-31	2025-02-05	2026-02-04
MAGPy-DAS	SPEAG	MAGPy	SEMC060-32	2025-02-05	2026-02-04

General used equipment					
Equipment	**Manufacturer**	**Model No**	**Inventory No**	**Cal Date**	**Cal Due Date**
DMM	Fluke	73	EMC0006	2025-06-03	2026-06-02

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6 Radio Spectrum Matter Test Results

6.1 Field Strength

Test Requirement 47 CFR Part 1.1310 & KDB 680106 D01

Test Method: KDB 680106 D01

Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*($900/f^2$)	<6
30-300	61.4	0.163	1.0	<6
300-1,500	/	/	f/300	<6
1,500-100,000	/	/	5	<6
(ii) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*($180/f^2$)	<30
30-300	27.5	0.073	0.2	<30
300-1,500	/	/	f/1500	<30
1,500-100,000	/	/	1.0	<30

f = frequency in MHz.

* = Plane-wave equivalent power density.

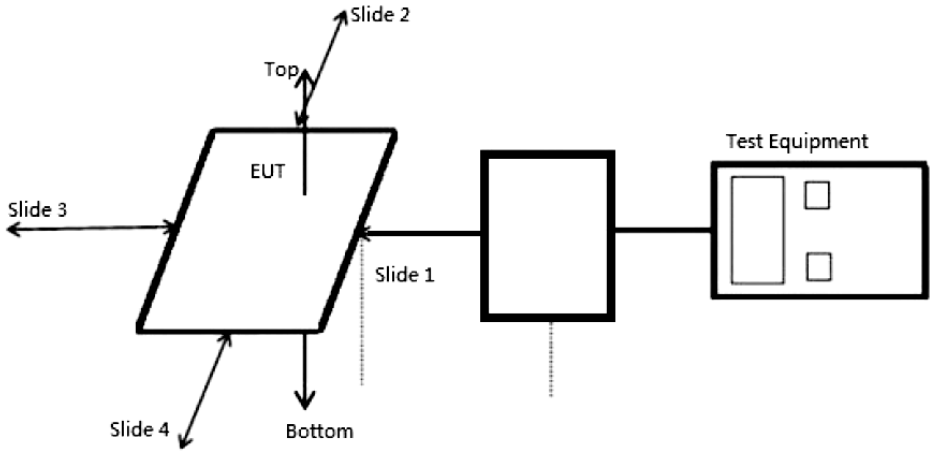
The emissions should be within the limits at 300kHz in Table 1 0f 1.1310 (use the 300kHz limits for the lower frequencies)

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 59.8 % RH Atmospheric Pressure: 1020 mbar

6.1.2 Test Setup Diagram



6.1.3 Measurement Procedure and Data

Output Voltage= DC 5 V; The max output power = 15 W; Calculation of resistor value=1.67Ω

Electric Field Emissions

Operation frequency	Test Distance (cm)*	Test Position	Probe Measure Result(V/m)			Limit (V/m)
			unload	Half load	full load	
128.405kHz which is the worst case within the operation frequency range	20	Side 1	1.55	1.52	1.55	<=614
		Side 2	1.79	1.83	1.90	
		Side 3	1.58	1.59	1.92	
		Side 4	1.16	1.16	1.37	
		Top	2.94	3.20	3.39	
		Bottom	0.61	0.60	0.67	

Magnetic Field Emissions

Operation frequency	Test Distance (cm)*	Test Position	Probe Measure Result(A/m)			Limit (A/m)
			unload	Half load	full load	
128.405kHz which is the worst case within the operation frequency range	20	Side 1	0.19	0.21	0.23	<=1.63
		Side 2	0.19	0.20	0.23	
		Side 3	0.20	0.25	0.20	
		Side 4	0.18	0.22	0.21	
		Top	0.24	0.22	0.35	
		Bottom	0.20	0.17	0.19	

Mobile phone has been charged at zero charge, intermediate charge, and full charge.

Electric Field Emissions

Operation frequency	Test Distance (cm)*	Test Position	Probe Measure Result(V/m)			Limit (V/m)
			zero charge	intermediate charge	full charge	
128.405kHz which is the worst case within the operation frequency range	20	Side 1	1.32	1.38	1.50	<=614
		Side 2	1.84	1.83	1.89	
		Side 3	1.54	1.47	1.70	
		Side 4	1.20	1.13	1.26	
		Top	3.36	2.87	3.32	
		Bottom	0.60	0.52	0.68	

Magnetic Field Emissions

Operation frequency	Test Distance (cm)*	Test Position	Probe Measure Result(A/m)			Limit (A/m)
			zero charge	intermediate charge	full charge	
128.405kHz which is the worst case within the operation frequency range	20	Side 1	0.20	0.21	0.22	<=1.63
		Side 2	0.17	0.19	0.24	
		Side 3	0.22	0.21	0.23	
		Side 4	0.18	0.20	0.22	
		Top	0.26	0.23	0.35	
		Bottom	0.19	0.18	0.19	

*Remark: The test distance 20 cm was the worst case of all the distance declared in user manual by applicant.

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6.2 RF Exposure Evaluation

6.2.1 Limit & Test Method

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f^2)	6
30–300	61.4	0.163	1.0	6
300–1500	.....	.....	f/300	6
1500–100,000	.....	.....	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f^2)	30
30–300	27.5	0.073	0.2	30
300–1500	.....	.....	f/1500	30
1500–100,000	.....	.....	1.0	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out}*G)/(4* P_i * R^2)$

Where

P_d = power density in mW/cm^2

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

P_i = 3.1416

R = distance between observation point and center of the radiator in cm

P_d id the limit of MPE, 1 mW/cm^2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

6.2.2 Conclusion

Multiple transmitter-According to Section 7.2 of KDB 447498 D01 General Radio Frequency Exposure Guidelines v06

For Model: STEPR-XL-H

(Also contain FCC ID: 2AXTXBT-ZYLY-D & FCC ID: 2AL6KBL-M8821CS1 (One Antenna))

RF exposure of FCC ID: 2AXTXBT-ZYLY-D use BT classic function.

For Bluetooth Classic

Antenna Gain: -0.58 dBi

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2402	0.87	2.1	1.62	0.00028	1	Complies
2441	0.87	2.76	1.89	0.00033	1	Complies
2480	0.87	0.92	1.24	0.00022	1	Complies

RF exposure of FCC ID: 2AL6KBL-M8821CS1 use BLE & 2.4G Wi-Fi function.

For Bluetooth BLE

Antenna Gain: 2 dBi

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2402	1.58	3.56	2.27	0.00072	1	Complies
2440	1.58	3.03	2.01	0.00063	1	Complies
2480	1.58	2.68	1.85	0.00058	1	Complies

For 2.4G Wi-Fi

Antenna Gain: 2 dBi

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2412	1.58	15.98	39.63	0.01249	1	Complies
2442	1.58	15.29	33.81	0.01066	1	Complies
2462	1.58	15.15	32.73	0.01032	1	Complies

The BT Classic, BT BLE, 2.4G Wi-Fi (both modules) & WPC can be transmitted at the same time, so the result is 0.00033/1+0.00072/1+0.01249/1+0.35/1.63=0.228<1, so the device meets the RF exposure and without SAR test.

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For Model: STEPR-XL-CL

RF exposure of FCC ID:2AOO6-WLT5283M

For Bluetooth BLE

Antenna Gain: 3 dBi

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2402	2.00	2.04	1.60	0.00063	1	Complies
2440	2.00	1.59	1.44	0.00057	1	Complies
2480	2.00	1.61	1.45	0.00058	1	Complies

The BT BLE & WPC can be transmitted at the same time, so the result is 0.00063/1+0.35/1.63=0.215<1, so the device meets the RF exposure and without SAR test.

7 Test Setup Photo

Refer to Appendix - Test Setup Photo for GZCR250400057003

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8 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2504000570HS

- End of the Report -

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