



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

EMC-TRF-03 Rev 1.1

Report No.: GZCR240700087308

Page: 1 of 9

FCC ID: 2BNTF-ROBBYONE

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2407000873HS
Applicant: Next Robot Inc
Address of Applicant: 15920 Pomona Rincon Rd Unit 5101, Chino Hills, California, United States of America
Manufacturer: Foshan ZhiRen technology Co., LTD
Address of Manufacturer: No. 2, Xing Li South Road, XiChong Village, LunJiao Street, Shunde District, Foshan City, Guangdong Province
Factory: Foshan ZhiRen technology Co., LTD
Address of Factory: No. 2, Xing Li South Road, XiChong Village, LunJiao Street, Shunde District, Foshan City, Guangdong Province
Product Name: Automatic Cooking Machine
Model No.: Robby One
Trade Mark: Next Robot
Standard(s) : KDB 447498 D01 V06
47 CFR Part 1.1310
Date of Receipt: 2024-07-26
Date of Evaluation: 2024-11-11 to 2024-11-11
Date of Issue: 2025-02-13

Evaluation Result:

Pass*

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

This report GZCR240700087308 supersedes the previous report GZCR240700087304, issued on 2025-01-24 which is hereby deemed null and void.

Ricky Liu

Ricky Liu
Manager



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


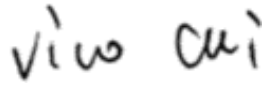
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Revision Record			
Version	Report No.	Date	Remark
01	GZCR240700087304	2025-01-24	Original(Null)
02	GZCR240700087308	2025-02-13	Revised report: Updated Input parameter.

Authorized for issue by:			
			
		Allen Zhou/Project Engineer	
			
		Vico Cui/Reviewer	



2 Evaluation Summary

Item	Standard	Method	Requirement	Result
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.

Remark for report GZCR240700087308:

This report GZCR240700087308 supersedes the previous report GZCR240700087304, with only updated Input parameter.

Therefore, test data in GZCR240700087304 was kept in this report GZCR240700087308.

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4 General Information

4.1 Details of E.U.T.

Power supply: 220V, 3~phase, 50/60Hz
 Cable(s): AC mains cable: 3 wires 1.5m unshielded
 RF Parameter: Please refer to test report GZCR240700087302 for BLE details
 Please refer to test report GZCR240700087303 for 2.4GHz Wi-Fi details

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 Evaluating 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.

4.3 Facility

The 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.



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4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None



5 Technical Requirements Specification

5.1 General Description of Applied Standards

KDB447498D01 General RF Exposure Guidance v06

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 Exclusion Threshold condition, listed below, is satisfied.

5.2 RF Exposure Evaluation

5.2.1 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/cm²

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 is the limit of MPE, 1 mW/cm². 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.



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5.2.2 Conclusion

Normal use condition for
Distance between antenna and body: $\geq 20\text{cm}$ declared by applicant

For Bluetooth BLE

Antenna Gain: 2.48 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	1.77010896	2.41	1.74	0.00061	1	Complies
2440	1.77010896	2.98	1.99	0.00070	1	Complies
2480	1.77010896	2.87	1.94	0.00068	1	Complies

For 2.4 GHz Wi-Fi

Antenna Gain: 2.48 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
11B						
2412	1.77010896	8.09	6.44	0.00227	1	Complies
2442	1.77010896	9.79	9.53	0.00336	1	Complies
2462	1.77010896	10.29	10.69	0.00376	1	Complies
11G						
2412	1.77010896	11.83	15.24	0.00537	1	Complies
2442	1.77010896	13.08	20.32	0.00716	1	Complies
2462	1.77010896	13.77	23.82	0.00839	1	Complies
11N20						
2412	1.77010896	11.55	14.29	0.00503	1	Complies
2442	1.77010896	12.79	19.01	0.00669	1	Complies
2462	1.77010896	13.43	22.03	0.00776	1	Complies
11N40						
2422	1.77010896	12.11	16.26	0.00572	1	Complies
2442	1.77010896	13.31	21.43	0.00755	1	Complies
2452	1.77010896	13.63	23.07	0.00812	1	Complies

The Bluetooth and Wi-Fi can be transmitted together, the result is $0.00070/1 + 0.00839/1 = 0.00909 < 1$

So SAR report is not required.

Note: Refer to report No. GZCR240700087302 & GZCR240700087303 for EUT test Max Conducted Peak Output Power value.



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6 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2407000873HS

- End of the Report -



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