

Page 1 of 10 FCC ID: 2BPM8-G90 Report No.: LCSA05015001EB

RF Exposure Evaluation

For

Shenzhen WOGa Smart Technology Co., Ltd

PC Soundbar Speaker

Test Model: G90

Prepared for : Shenzhen WOGa Smart Technology Co., Ltd

Address : 2nd Floor, Building 2, Zhuangbian Second Industrial Zone, Hezhou

Industrial Zone, Hezhou Community, Hangcheng Subdistrict, Bao'an

District, Shenzhen

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.

Address : 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

Mail : webmaster@LCS-cert.com

Date of receipt of test sample : May 14, 2025

Number of tested samples : 2

Sample No. : A250429050-1, A250429050-2

Serial number : Prototype

Date of Test : May 14, 2025 ~ May 28, 2025

Date of Report : May 29, 2025





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RF Exposure Evaluation

Report Reference No.: LCSA05015001EB

Date of Issue.....: May 29, 2025

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

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

Shajing Street, Baoan District, Shenzhen, 518000, China

Testing Location/ Procedure.....: Full application of Harmonised standards ■

Partial application of Harmonised standards

Other standard testing method

Applicant's Name.....: Shenzhen WOGa Smart Technology Co., Ltd

Address......: 2nd Floor, Building 2, Zhuangbian Second Industrial Zone, Hezhou

Industrial Zone, Hezhou Community, Hangcheng Subdistrict, Bao'an

District, Shenzhen

Test Specification

Standard......: FCC KDB publication 447498 D01 General 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.....: PC Soundbar Speaker

Trade Mark.....: Wohome, Wogree

Test Model.....: G90

Ratings.....: Please Refer to Page 6

Result PASS

Compiled by:

Supervised by:

Approved by:

Ling. Zhu

Ling Zhu/ Administrator

Jack Liu/ Technique principal

Gavin Liang/ Manager







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RF Exposure Evaluation

 Test Report No. :
 LCSA05015001EB
 May 29, 2025

 Date of issue

EUT.....: PC Soundbar Speaker Test Model..... : G90 : Shenzhen WOGa Smart Technology Co., Ltd Applicant..... 2nd Floor, Building 2, Zhuangbian Second Industrial Zone, Hezhou : Industrial Zone, Hezhou Community, Hangcheng Subdistrict, Address..... Bao'an District, Shenzhen Telephone..... : / Fax..... : Shenzhen WOGa Smart Technology Co., Ltd Manufacturer..... : 2nd Floor, Building 2, Zhuangbian Second Industrial Zone, Hezhou Address..... Industrial Zone, Hezhou Community, Hangcheng Subdistrict, Bao'an District, Shenzhen Telephone..... Fax..... : / : Shenzhen WOGa Smart Technology Co., Ltd Factory..... Address..... : 2nd Floor, Building 2, Zhuangbian Second Industrial Zone, Hezhou Industrial Zone, Hezhou Community, Hangcheng Subdistrict, Bao'an District, Shenzhen Telephone..... Fax.....

Test Result	PASS

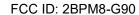
The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



Shenzhen LCS Compliance Testing Laboratory Ltd.





Revision History

Report Version	Issue Date	Revision Content	Revised By
000	May 29, 2025	Initial Issue	

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Report No.: LCSA05015001EB

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Shenzhen LCS Compliance Testing Laboratory Ltd.





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1. Product Information

EUT	: PC Soundbar Speaker				
Test Model	: G90 STOOMS TOO STOOMS TO STOOMS TO STOOMS TO STOOMS TO STOOMS TO STOOMS TO STOOM STOOM STOOMS TO STOOM STOOM				
Ratings	For AC Adapter 1: TP04-150200U				
	Input: 100-240V~, 50/60Hz, 1.2A Max				
	Output: 15.0V2.0A				
	For AC Adapter 2: AW037WR-1500200UV				
	Input: 100-240V~, 50/60Hz, 1.0A				
	Output: 15V2A				
Hardware Version	: 1.0				
Software Version	: 1.0				
Bluetooth					
Frequency Range	2402MHz~2480MHz				
Channel Number	79 channels for Bluetooth V5.3 (DSS)				
Channel Spacing	1MHz for Bluetooth V5.3 (DSS)				
Modulation Type	GFSK, π/4-DQPSK, 8-DPSK for Bluetooth V5.3 (DSS)				
Bluetooth Version	: V5.3				
Antenna Description	: PCB Antenna, -0.68dBi(Max.)				
Exposure category	: General population/uncontrolled environment				
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 ≤ 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 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)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.

<u>FCC KDB publication 447498 D01 General RF Exposure Guidance v06:</u> 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 Results

<BT>

		_	
Mode	Channel	Frequency (MHz)	Peak Conducted Output Power (dBm)
	0	2402	2.92
GFSK	39	2441	3.9
	78	2480	3.27
π/4DQPSK	0	2402	2.21
	39	2441	3.1
	78	2480	2.4
7	n.49 0	2402	2.26
8DPSK	39	2441	3.27
	78	2480	2.47

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TSI 正语检测版价

TEL TEST TESTING Lab



















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5. Manufacturing Tolerance

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	GFSK	(Peak)			
Channel	Channel 0	Channel 39	Channel 78		
Target (dBm)	2.0	3.0	3.0		
Tolerance ±(dB)	1.0	1.0	1.0		
	π/4DQPS	K (Peak)			
Channel	Channel 0	Channel 39	Channel 78		
Target (dBm)	2.0	3.0	2.0		
Tolerance ±(dB)	1.0	1.0	1.0		
8DPSK (Peak)					
Channel	Channel 0	Channel 39	Channel 78		
Target (dBm)	2.0	3.0	2.0		
Tolerance ±(dB)	1.0	1.0	1.0		

6. Evaluation Results

6.1 Standalone Evaluation

<BT>

Modulation Frequency Diet		Antenna Distance	Antenna Distance RF output power		SAR Test Exclusion	SAR Test
Туре	(GHz)	(mm)	dBm	mW	Threshold	Exclusion
GFSK	2.480	5 Hi 5 Hing Lab	4.0	2.5119	0.7911< 3.0	Yes
π/4DQPSK	2.441	5	4.0	2.5119	0.7849< 3.0	Yes
8DPSK	2.441	5	4.0	2.5119	0.7849< 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.

6.2 Simultaneous Transmission for SAR Exclusion

The sample support one BT modular. No need consider simultaneous transmission.

7. 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.

8. 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.



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Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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9. Measurement Uncertainty

J. Measuremen	t Officertainty	No.		
Test Item	Frequency Range	Uncertainty	Note	T Washing La
Output power:	1GHz-40GHz	±0.57dB	(1)	1120 res

(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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