RF Exposure Report

FCC ID: 2A27V-OWS860

Report No. : SSP24040291-2E

Applicant : Dongguan Genai Technology Co.,LTD

Product Name : OWS EarphoneBluetooth

Model Name : OWS860

Test Standard: FCC CFR 47 PART 2.1093

Date of Issue : 2024-05-08



Shenzhen CCUT Quality Technology Co., Ltd.

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This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

FCC Test Report Page 1 of 7

APPROVE

Test Report Basic Information

Applicant..... Dongguan Genai Technology Co.,LTD

Room 101, 1st Building, No. 3, Kuiqiao Road, Puxin lake, Tangxia town,

Address of Applicant..... Dongguan city, Guangdong Province, China

Manufacturer..... Dongguan Genai Technology Co.,LTD

Room 101, 1st Building, No. 3, Kuiqiao Road, Puxin lake, Tangxia town,

Address of Manufacturer.....: Dongguan city, Guangdong Province, China

Product Name..... **OWS** EarphoneBluetooth

Brand Name....: **GENAI**

Main Model....: OWS860

Series Models....: OWS820

FCC CFR 47 PART 2.1093

Test Standard..... KDB 447498 D01 v06

Test Result..... PASSED

(Walker Wu)

(Lieber Ouyang)

(Lahm Peng) Authorized Signatory.....

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Page 2 of 7 **FCC Test Report**

CONTENTS

. General Information	5
1.1 Product Information	5
1.2 Test Facilities	
RF Exposure	
2.1 Standard and Limit	6
2.2 Test Procedure	6
2.3 Test Data and Results	7

Report No: SSP24040291-2E

Revision	Issue Date	Description	Revised By
V1.0	2024-05-08	Initial Release	Lahm Peng

FCC Test Report Page 4 of 7

1. General Information

1.1 Product Information

Product Name:	OWS EarphoneBluetooth		
Trade Name:	GENAI		
Main Model:	OWS860		
Series Models:	OWS820		
Rated Voltage:	DC 3.7V by battery, USB 5V charging		
Battery:	DC 3.7V, 50mAh		
Hardware Version:	V1.3		
Software Version:	V202		
No. 4 ml and 16			

Report No: SSP24040291-2E

Note 1: The test data is gathered from a production sample, provided by the manufacturer.

Note 2: The color of appearance and model name of series models listed are different from the main model, but the circuit and the electronic construction are the same, declared by the manufacturer.

Wireless Specification				
Wireless Standard:	Bluetooth BR+EDR			
Operating Frequency:	2402MHz ~2480MHz			
RF Output Power:	4.88dBm			
Antenna Gain:	2.78dBi			
Type of Antenna:	SMD Antenna			
Type of Device:	☐ Portable Device ☐ Mobile Device ☐ Modular Device			

1.2 Test Facilities

Shenzhen CCUT Quality Technology Co., Ltd.			
1F, Building 35, Changxing Technology Industrial Park, Yutang Street,			
Guangming District, Shenzhen, Guangdong, China			
L18863			
6893.01			
583813			
CN0164			

All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.

FCC Test Report Page 5 of 7

2. RF Exposure

2.1 Standard and Limit

3.0 for 1g SAR.

2.2 Test Procedure

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(s), listed below, is (are) satisfied.

Report No: SSP24040291-2E

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.

The minimum test separation distance defined in 4.1 f) 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.

To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified, typically in the SAR measurement or SAR analysis report, by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, according to the required published RF exposure KDB procedures.

When no other RF exposure testing or reporting are required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for 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.

a) For 100 MHz to 6 GHz and test separation distances \leq 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [$\sqrt{f(GHz)}$] ≤ 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
- The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) 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 4.1 f) is applied to determine SAR test exclusion.

- b) For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following (also illustrated in Appendix B):
- 1) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance 50 mm)· $\{f(MHz)/150\}$] mW, for 100 MHz to 1500 MHz
- 2) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance 50 mm) 10]} mW, for > 1500 MHz and \leq 6 GHz
 - c) For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also

FCC Test Report Page 6 of 7

illustrated in Appendix C):

1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100/f(MHz))]$

Report No: SSP24040291-2E

- 2) For test separation distances \le 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$
 - 3) SAR measurement procedures are not established below 100 MHz.

When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any SAR test results below 100 MHz to be acceptable.

2.3 Test Data and Results

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

For BR+EDR

Max	Tune-up	Max	Max		Min.	Calc.	
Conducted	Power(dBm)	Tune-up	Power(mW)	Frequency(MHz)	distance(mm)	thresholds	limit
Power(dBm)		Power(dBm)			distance(mm)	unresnoius	
4.88	4(±1)	5	3.162	2441	5	0.98804	3.0

So a SAR test is not required

FCC Test Report Page 7 of 7