

EMC-TRF-03 Rev 1.1 Report No.: GZCR230500047703

Page: 1 of 8 FCC ID: ESX-TMAX45

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2305000477AT

Applicant: Guangzhou Panyu Juda Car Audio Equipment Co., Ltd

Address of Applicant: NO.5 Building, No.139, Zhouxing Street, Dongchong Town, Nansha District,

Guangzhou City, Guangdong Province, China

Manufacturer: Guangzhou Panyu Juda Car Audio Equipment Co., Ltd

Address of Manufacturer: NO.5 Building, No.139, Zhouxing Street, Dongchong Town, Nansha District,

Guangzhou City, Guangdong Province, China

Factory: Guangzhou Panyu Juda Car Audio Equipment Co., Ltd

Address of Factory: NO.5 Building, No.139, Zhouxing Street, Dongchong Town, Nansha District,

Guangzhou City, Guangdong Province, China

Equipment Under Test (EUT):

EUT Name: WIRELESS SPEAKER SYSTEM

Model No.: SC-TMAX45, VX928 ♣

Please refer to section 2 of this report which indicates which item was

actually tested and which were electrically identical.

Trade Mark: Panasonic VTREK

Standard(s): KDB447498D01 General RF Exposure Guidance v06

 Date of Receipt:
 2023-05-19

 Date of Evaluation:
 2023-06-06

 Date of Issue:
 2023-07-11

Evaluation Result: Pass*

Ricky Liu Manager



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



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Revision Record							
Version	Report No.	. Date Remark					
01	GZCR230500047703	2023-07-11	Original				

Authorized for issue by:			
	Jim Li		
	Jim Li/Project Engineer		
	Ridge Liu		
	Ricky Liu/Reviewer	_	



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2 Evaluation Summary

Item	Standard	Method	Requirement	Result
RF Exposure	KDB447498D01 General RF Exposure Guidance v06	KDB447498D01 General RF Exposure Guidance v06	KDB447498D01 General RF Exposure Guidance v06	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.

♣ Model No.: SC-TMAX45, VX928

Only the model SC-TMAX45 was tested.

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 the model name and Trade Mark.



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4 General Information

4.1 Details of E.U.T.

Power supply: AC 110-240V, 50/60Hz; 220-240V, 50/60Hz; 200W

Cable(s): AC mains (unshielded, Max 2.0m)

USB ports; MIC IN ports; GUITAR IN ports; AUX in ports; AUDIO out ports; OPT IN ports.

Operation Frequency: 2402MHz to 2480MHz

Modulation Type: GFSK, pi/4DQPSK, 8DPSK

Number of Channels: 79 Channel Spacing: 1MHz

Spectrum Spread

Technology:

Frequency Hopping Spread Spectrum(FHSS)

Antenna Type: PCB Antenna Antenna Gain: 1.33 dBi

Antenna Number: 1

4.2 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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4.3 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.

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None



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5 Technical Requirements Specification

5.1 RF Exposure Evaluation

5.1.1 Limit & Test Method

KDB447498D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 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 calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.2 Conclusion

The Max Conducted Peak Output Power is 2.53 dBm on the lowest channel 2.402 GHz 2.53 dBm logarithmic terms convert to numeric result is nearly 1.79 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 = $(1.79 \text{ mW} / 5 \text{ mm}) \text{ x} \sqrt{2.402 \text{ GHz}} = 0.555$ (1)

SAR requirement:

S = 3.0 (2)

(1) < (2)

So the SAR report is not required.

Note: Refer to report No. GZCR230500047402 for EUT test Max Conducted Peak Output Power value.



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6 EUT Constructional Details (EUT Photos)

Refer to Appendix - External and Internal Photos for GZCR2305000477AT

- End of the Report -



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