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Development District, Guangzhou, China 510663

Telephone: +86 (0) 20 82155555 Fax: +86 (0) 20 82075059 Email: ee.guangzhou@sgs.com Report No.: GZEM190601379003

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TEST REPORT

Application No.: GZEM1906013790CR

Applicant: MMD Hong Kong Holding Limited

Address of Applicant: Units 1006-1007, 10th Floor, C-Bons International Center, 108 Wai Yip Street,

Kwun Tong, Kowloon, Hong Kong

Manufacturer: MMD Hong Kong Holding Limited

Address of Manufacturer: Units 1006-1007, 10th Floor, C-Bons International Center, 108 Wai Yip Street,

Kwun Tong, Kowloon, Hong Kong

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

Address of Factory: Vtrek Dewei Industrial Garden, Shibei Industrial Road, Dashi Town, Panyu

Borough, Guangzhou City Guangdong Province, China

Equipment Under Test (EUT):

EUT Name: Party Speaker

Model No.: TANX100, TANX100xx/yy (x=A-Z or blank, for different color or package;

yy=00-99, for country code) ¤

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

actually tested and which were electrically identical.

Trade Mark: PHILIPS

PHILIPS

Standard(s): 47 CFR Part 1.1307, Part 2.1093, KDB 447498

Date of Receipt: 2019-06-24

Date of Test: 2019-06-26 to 2019-07-08

Date of Issue: 2019-07-10

Test Result: Pass*

Kobe Jian

Kuhe Tim

EMC Laboratory Manager

检验检测专用章 spection & Testing Services

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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



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Revision Record								
Version	Chapter	Date	Modifier	Remark				
01		2019-07-10		Original				

Authorized for issue by:			
Tested By	Jackson huan	2019-06-26 to 2019-07-08	
	Jackson_Yuan /Project Engineer	Date	
Checked By	Riday Liu	2019-07-10	
	Ricky_Liu /Reviewer	Date	



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2 Test Summary

Radio Spectrum Technical Requirement								
Item	Standard	Method	Requirement	Result				
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	Pass				

¤ Declaration of EUT Family Grouping:

Model No.: TANX100, TANX100xx/yy (x=A-Z or blank, for different color or package; yy=00-99, for country code)

According to the declaration from the applicant, circuitry design, PCB layout, electrical components used, internal wiring and functions were identical for all models, with only difference on the model name, label and colour.

Therefore only one model TANX100 was tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power Supply: AC 100-240V, 50/60Hz

Rated Power: 40W

Test Voltage: AC 120 V, 60 Hz

Cable/Ports: AC mains (unshielded, 1.5m)

USB ports
LINE IN ports
LINE OUT ports
MIC 1 IN ports
MIC 2 IN ports
GUITAR ports

Antenna Gain 0 dBi

Antenna Type PCB Antenna

Channel Spacing 1MHz

Modulation Type GFSK, π/4DQPSK, 8DPSK

Number of Channels 79

Operation Frequency 2402MHz to 2480MHz

Spectrum Spread

Technology .

Frequency Hopping Spread Spectrum(FHSS)

Software BK

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Test 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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4.4 Test Facility

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

● NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

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.

● CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

● FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

◆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, Jul 13, 2017.

● Industry Canada (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-10449 and T-11179)

The 10m Semi-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-10449 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 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.5 Deviation from Standards

None

4.6 Abnormalities from Standard Conditions

None



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5 Radio Spectrum Technical Requirement

5.1 RF Exposure

5.1.1 Test Requirement:

CFR 47 Part 2.1093

Limit:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 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 ≤ 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 is applied to determine SAR test exclusion

5.1.2 Conclusion

The Max conducted output power is 5.536 dBm in Highest channel (2.480 GHz);

5.536 dBm logarithmic terms convert to numeric result is nearly 3.58 mW

According to the formula. calculate the test result:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}]$

General RF Exposure = $(3.58 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.480 \text{ GHz}} = 1.127 \text{ }$

SAR requirement:

S=3.0 (2);

(1) < (2).

So the SAR report is not required.



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Photographs 6

6.1 **EUT Constructional Details**

Please refer to Appendix A - Photographs of EUT Constructional Details for GZEM1906013790CR.

-- End of Report--



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