

Report No.: GZCR210502035403

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FCC ID: 2AFHW-VWM100GKY

RF EXPOSURE EVALUATION Report

Application No.: GZCR2105020354AT

Applicant: Innovative Technology Electronics LLC

Address of Applicant: 1979 Marcus Ave, Suite 210, Lake Success, NY,11042

Manufacturer: SHENZHEN GKY TECHNOLOGY CO., LTD

2/F, 3/F NO.41, Tiansheng Road, Tianliao Village, Gongming Street, Address of Manufacturer:

Guangming District Shenzhen

Factory: SHENZHEN GKY TECHNOLOGY CO., LTD

2/F, 3/F NO.41, Tiansheng Road, Tianliao Village, Gongming Street, Address of Factory:

Guangming District Shenzhen

Equipment Under Test (EUT):

EUT Name: Suitcase Turntable player

Model No.: VWM-100SB, VSC-400SB, VSC-550BT ¤

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

actually tested and which were electrically identical.

47 CFR Part 1.1307 Standard(s):

KDB447498 D01 General RF Exposure Guidance v06

2021-05-31 **Date of Receipt:** 2021-06-22 Date of Evaluation: Date of Issue: 2021-06-25

Evaluation Result: Pass*

Kobe Jian **EMC Laboratory Manager**

中国·广州·经济技术开发区科学城科珠路198号

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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		2021-06-25		Original	

Authorized for issue by		
Tested By	Coly Knong	
	Lily Kuang/Project Engineer	
Reviewed By	Ridge Liu	
	Ricky Liu/Reviewer	



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Evaluation Summary

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.

¤ Declaration of EUT Family Grouping:

Model No.: VWM-100SB, VSC-400SB, VSC-550BT

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. Therefore only one model VWM-100SB was Evaluated in this report.



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4 General Information

4.1 Details of E.U.T.

Power supply: DC 5 V powered by AC/DC adapter as below:

Model: GKYPS0100050UL1 Input:100~240V ~50/60Hz 0.5A

Ouput:5V===1000mA

Function: Suitcase Turntable player with BT function

Operation Frequency: 2402MHz to 2480MHz

Spectrum Spread

Frequency Hopping Spread Spectrum(FHSS)

Technology: Modulation Type:

GFSK, π/4DQPSK

Number of Channels: 79 Channel Spacing: 1MHz

Antenna Type: PCB antenna Antenna gain -0.58dBi

S/N: SP-2020060501 M1

Test Software Version: BT_Tool V1.1

Power setting level 0 dBm can not changed by user

Hardware Version: ECS02A-V12 (6955)

Firmware Version: SV01

4.2 Evaluating Location

All evaluations 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 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/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.

CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

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 Radio Spectrum Matter Test Results

5.1 RF Exposure Evaluation

5.1.1 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/cm²)	Averaging time (minutes)	
(A) Limits for Occupational/Controlled Exposure					
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	
300-1,500			f/300	6	
1,500-100,000			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	
300-1,500			f/1500	30	
1,500-100,000			1.0	30	
f – fraguency in MH	f - fraguancy in MHz				

f = frequency in MHz

According to IEEE C95.3:2002 section 5.5.1.1, The power density S at a point on the axis at a distance d from a transmitting antenna is given by the Friis free-space transmission formula

$$S = \frac{PG}{4\pi d^2}$$

 $S = power density (mW/cm^2)$

P = the net power delivered to the antenna (mW)

G = gain of the antenna in linear scale

d = distance between observation point and center of the radiator (cm)



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^{* =} Plane-wave equivalent power density



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5.1.2 Conclusion

Normal use condition for

Distance between

20cm declared by applicant

antenna and body:

Antenna Gain:

-0.58 dBi

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2402	0.875	-1.31	0.740	0.00013	1	Complies
2441	0.875	-0.74	0.843	0.00015	1	Complies
2480	0.875	-0.77	0.838	0.00015	1	Complies

So SAR report is not required.

Note: Refer to report No. GZEM210502035402 for EUT test Max Conducted Peak Output Power value.



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EUT Constructional Details (EUT Photos) 6

Refer to Appendix A - Photographs of EUT Constructional Details for GZCR2105020354AT

- End of the Report -



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