

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2104020153AT
Applicant: FKA Distributing Co., LLC
Address of Applicant: 3000 N. Pontiac Trail, Commerce Township, Michigan, 48390, United States
Manufacturer: FKA Distributing Co., LLC
Address of Manufacturer: 3000 N. Pontiac Trail, Commerce Township, Michigan, 48390, United States
Factory: Electrical Appliance Branch of Zhangzhou Easepal Industrial Corporation
Address of Factory: No.36 Longkun Road, Hongjian Village, Jiaomei Town, Zhangzhou
Taiwanese Investment Zone, Fujian China

Equipment Under Test (EUT):
EUT Name: Sand Table
Model No.: ST-400
Standard(s) : 47 CFR Part 1.1310
KDB447498D01 General RF Exposure Guidance v06

Date of Receipt: 2021-04-20
Date of Test: 2021-04-25 to 2021-04-28
Date of Issue: 2021-06-25

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

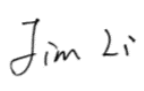

Kobe Jian
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-06-25		Original

Authorized for issue by:			
Tested By		 <hr/> Jim Li Project Engineer	
Reviewed By		 <hr/> Ricky Liu Reviewer	



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3 General Information

3.1 Details of E.U.T.

Power supply:	DC 12 V powered by SWITCHING ADAPTER: Model No.:GQ48-120400-E1 Input:100-240V ~ 50/60Hz, 1.5A Max Output:12.0V, 4.0A, 48.0W
Cable(s):	AC mains input cable:3 wires, 3.6m, unshielded. DC output cable: 2 wires, 1.2m, unshielded.
Function:	Sand Table with BLE function
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	Integral Antenna
Antenna Gain:	0dBi declared by applicant.
Software Version:	SV01
Hardware Version:	HW01
Testing Software:	CMOSTEK.exe
Sample NO.:	KS2103310001
Power Setting	-5dBm cannot be changed by user

3.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594



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3.3 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/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.

3.4 Deviation from Standards

None

3.5 Abnormalities from Standard Conditions

None



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4 Technical Requirements Specification

4.1 General Description of Applied Standards

4.2 RF Exposure Evaluation

4.2.1 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/cm ²)	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 = frequency in MHz				
* = Plane-wave equivalent power density				

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/cm²)

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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4.2.2 Test Data and Test Result

Normal use condition for

Distance between antenna and body: 20cm declared by applicant

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2402	1	-6.38	0.230	0.00005	1	Complies
2440	1	-7.60	0.174	0.00003	1	Complies
2480	1	-8.43	0.144	0.00003	1	Complies

So SAR report is not required.



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5 EUT Constructional Details (EUT Photos)

Refer to Appendix - Photographs of EUT Constructional Details for GZCR2104020153AT

- End of the Report -



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