

Report No.: GZCR211202153505

Page: 1 of 10 FCC ID: WNA-HP47D

## RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2112021535AT

**Applicant:** Shenzhen Skyworth Digital Technology Co., LTD.

Address of Applicant: 14/F, Block A, Skyworth Building, Gaoxin Ave.1.S., Nanshan District,

Shenzhen, China

**Manufacturer:** Shenzhen Skyworth Digital Technology Co., LTD.

Address of Manufacturer: 14/F, Block A, Skyworth Building, Gaoxin Ave.1.S., Nanshan District,

Shenzhen, China

**Factory:** Shenzhen Skyworth Digital Technology Co., LTD. Baoan Branch Factory

**Address of Factory:** 2-5F, Integration Multi-Storied Building, Skyworth Science and Technology

Industrial Park, Tangtou Industrial Zone, Shiyan Street, Baoan District,

Shenzhen city, China

**Equipment Under Test (EUT):** 

**EUT Name:** TV Stick

Model No.: Leap-L1, HP47D, KD5, F1, Leap-L1C, LB2107, RODPJS2KD,

Meta-C2 ♣

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

actually tested and which were electrically identical.

Trade Mark: SKYWORTH, MECOOL, EROC, COOCAA, MEETPAI, KODAK, CosMedia

Standard(s): 47 CFR Part 1.1307

47 CFR Part 1.1310 47 CFR Part 2.1091

Date of Receipt:2022-04-02Date of Evaluation:2022-04-11Date of Issue:2022-04-13

Evaluation Result: Pass\*

Kobe Jian EMC Laboratory Manager

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<sup>\*</sup> In the configuration evaluated, the EUT complied with the standards specified above.



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	Revision Record						
Version Chapter Date Modifier Rei							
01		2022-04-13		Original			

Authorized for issue by		
Tested By	Cof Vlu	
	Curry Wu/Project Engineer	
Reviewed By	Riday Liu	
	Ricky Liu/Reviewer	



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### 2 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.: Leap-L1, HP47D, KD5, F1, Leap-L1C, LB2107, RODPJS2KD,

Meta-C2

Only the model Leap-L1 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on model number and trade mark.



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### 4 General Information

#### 4.1 Details of E.U.T.

Power supply: Adapter:

Model: UT-236A-5100

Input: AC 100-240V 50/60Hz 0.2A Output: DC 5.0V 1.0A 5.0W

3.0V DC (1.5V x 2 "AAA" Size Batteries) for remote controller

Test Voltage: AC 120V, 60Hz or AC 240V, 50Hz

Note: Both nominal AC 120V, 60Hz and AC 240 V, 50Hz are required for testing in accordance with FCC KDB174176, this report only shows the

results of the worst test result(AC 120V, 60Hz);

Cable(s): USB cable: 97cm unshielded

HDMI cable: 7cm shielded

For BT:

Operation Frequency: 2402MHz to 2480MHz

Bluetooth Version: V5.0 Dual mode

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: 4dBi

For BLE:

Operation Frequency: 2402MHz to 2480MHz

Bluetooth Version: V5.0 Dual mode

Modulation Type: GFSK
Number of Channels: 40
Channel Spacing: 2MHz

Data rate: 1M/bits and 2M/bits
Antenna Type: PCB Antenna

Antenna Gain: 4dBi

For 2.4G:

Operation Frequency: 802.11b/g/n(HT20): 2412MHz to 2462MHz, 802.11n(HT40):

2422MHz to 2452MHz

Modulation Type: 802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM

(64QAM, 16QAM, QPSK, BPSK)

Number of Channels: 802.11b/g/n(HT20):11;802.11n(HT40):7

Channel Spacing: 5MHz

Antenna Type: PCB Antenna

Antenna Gain: 3.5dBi

For 5G:

Operation U-NII-1: 5180-5240MHz; U-NII-2A: 5260-5320MHz; Frequency (20MHz): U-NII-2C: 5500-5700MHz; U-NII-3: 5745-5825MHz



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Operation U-NII-1: 5190-5230MHz; U-NII-2A: 5270-5310MHz; Frequency (40MHz): U-NII-2C: 5510-5670MHz; U-NII-3: 5755-5795MHz

Operation U-NII-1: 5210MHz; U-NII-2A: 5290MHz; Frequency (80MHz): U-NII-2C: 5530-5610MHz; U-NII-3: 5775MHz

802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: Modulation Type: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK,

QPSK, 16QAM, 64QAM, 256QAM)

Channel Spacing: 802.11a/n(HT20)/ac(HT20): 20MHz; 802.11n(HT40)/ac(HT40):

40MHz; 802.11ac(HT80): 80MHz

DFS Function: Slave with Radar detection TPC Function: Without TPC function

Antenna Type: PCB Antenna

Antenna Gain: 4dBi

#### 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:

• 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 Technical Requirement

### 5.1 RF Exposure Compliance Requirement

#### **5.1.1 Limits**

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 Exposures								
0.3–3.0 3.0–30 30–300 300–1500 1500–100,000	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6 6 6 6				
(B) Limits	for General Populati	on/Uncontrolled Exp	posure					
0.3–1.34 1.34–30 30–300 300–1500 1500–100,000	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30 30				

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout\*G)/(4\* Pi \* R 2)

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

#### 5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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#### 5.1.3 **EUT RF Exposure Evaluation**

#### For BT:

Antenna Gain: Antenna :4dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.51 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)	Peak Output	to Antenna	at R = 20 cm		
	Power (dBm)	(mW)	(mW/cm <sup>2</sup> )		
2441	5.31	3.4	0.0016	1.0	PASS

Note: Refer to report No. GZCR211202153501 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

#### For BLE:

Antenna Gain: Antenna :4dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.51 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)	Peak Output	to Antenna	at R = 20 cm		
	Power (dBm)	(mW)	(mW/cm <sup>2</sup> )		
2440	2.58	1.81	0.0009	1.0	PASS

Note: Refer to report No. GZCR211202153502 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

#### For 2.4GHz Wifi:

Antenna Gain: Antenna:3.5dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.24 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:



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Frequency	Antenna	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)		Peak Output	to Antenna	at R = 20 cm		
		Power (dBm)	(mW)	(mW/cm <sup>2</sup> )		
2412	1	25.63	365.59	0.1629	1.0	PASS

Note: Refer to report No. GZCR211202153503 for EUT test Max Conducted Peak Output Power value. The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

#### For 5GHz Wifi:

Antenna Gain: Antenna: 4dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber are Antenna 2.51 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

#### SISO:

Frequency	Antenna	Max Conducted	Output Power	Power Density	Limit	Result
(MHz)		Peak Output	to Antenna	at R = 20 cm		
		Power (dBm)	(mW)	(mW/cm <sup>2</sup> )		
5825	1	17.78	59.98	0.0299	1.0	PASS

Note: Refer to report No. GZCR211202153504 for EUT test Max Conducted Peak Output Power value.

The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

#### Remark:

BT and Wi-Fi can transmit at the same time, BT+Wi-Fi=0.0016+0.1629=0.1645<1

### **6 EUT Constructional Details (EUT Photos)**

Refer to appendix - external and internal photos for GZCR2112021535AT

- End of the Report -



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