

Report No.: SZEM210300233003

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RF Exposure Evaluation Report

Application No.: SZEM2103002330CR

Applicant: Panic Inc.

Address of Applicant: 315 SW 11th Ave, 4th Floor, Portland Oregon 97205, USA.

Manufacturer: Panic Inc.

Address of Manufacturer: 315 SW 11th Ave, 4th Floor, Portland Oregon 97205, USA.

Factory: S&O Electronics (Malaysia) Sdn. Bhd.

Address of Factory: Lot 202, Bakar Arang Industrial Estate, 08000 Sungai Petani, Kedah,

Malaysia.

Equipment Under Test (EUT):

Product Name: Playdate Stereo Dock

Model No.: PDD-01

Trade mark: Playdate

FCC ID: 2AR29-PDD01

Standards: 47 CFR Part 1.1307

47 CFR Part 1.1310 47 CFR Part 2.1091

Date of Receipt: 2021-03-04

Date of Test: 2021-03-05 to 2021-03-29

Date of Issue: 2021-03-31

Test Result : PASS*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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



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2 Version

Revision Record						
Version Chapter		Date	Modifier	Remark		
01		2021-03-31		Original		

Authorized for issue by:		
	1-farry Uce	
	Harry Wu/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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4 General Information

4.1 General Description of EUT

Power supply:	AC 100-240V 50/60Hz		
	AC/DC Adapter:		
	Model: JZB010-050200JU		
	Input: AC 100-240V 50/60Hz, 0.35A		
	Output: DC 5.0V, 2A		
Cable(s):	Type C Cable: 150cm, Unshielded		
Operation Frequency:	2402MHz to 2480MHz		
Bluetooth Version:	V4.2		
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK		
Number of Channels:	79		
Channel Spacing:	1MHz		
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)		
Antenna Type:	PIFA Antenna		
Antenna Gain:	-0.58dBi		



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4.2 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

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.3 Test Facility

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

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCC

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None.

4.6 Other Information Requested by the Customer

None.



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5 RF Exposure Evaluation

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 Magnetic field strength (V/m) (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 1.63 1842/f 4.89/f 61.4 0.163		*(100) *(900/f²) 1.0 f/300 5	6 6 6 6				
(B) Limits for General Population/Uncontrolled Exposure								
0.3–1.34	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500	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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4.1.3 EUT RF Exposure Evaluation

Antenna Gain: -0.58dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 0.875 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

	Channel	Frequency (MHz)	Max Conducted Peak Output	Output Power to Antenna	Power Density at R = 20 cm	Limit	Result
		, ,	Power (dBm)	(mW)	(mW/cm²)		
Ī	Highest	2480	7	5.012	0.001	1.0	PASS

Note: Refer to report No. SZEM210300233002 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.

- End of the Report -



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