

RF Exposure Evaluation

FCC ID:2AVV6-827373-WATCH

Applicant Name..... : Liquipel Protection LLC

Address..... : 19800 MacArthur Blvd. Suite 300, Irvine California, CA 92612, United States

Manufacturer Name..... : Dong Guan You & Me Electronics.,LTD

Address..... : 2nd Floor, 3rd building,YongFa High-Tech Park, Jiaoping Road, TangXia District,
Dongguan City, China.

Product..... : Powertek 2in1 Watch Charger, 2in1 Watch Charger

Model(s)..... : 827373-Watch

Additional Model(s)..... : T8U-Watch, YM-U1, PT827373-Watch

Trademark..... : Powertek

Model Difference..... : 827373-Watch is tested model, other models are derivative models .The models
are identical in circuit, only different on the model names. So the test data of
827373-Watch can represent the remaining models.

Prepared by..... : Guangdong Zhonghan Testing Technology Co., Ltd.

Address..... : Room 104/201, Building 1, Yibaolai Industrial Park, Qiaotou, Fuhai Subdistrict,
Bao'an District, Shenzhen, Guangdong, China

Date of Receipt..... : June 5, 2026

Date of Test(s)..... : June 5, 2026-June 18, 2026

Date of Issue..... : June 22, 2026

Test Requested..... : Select test(s) as requested by the client.

Test Standard(s)..... : KDB 680106 D01 Wireless Power Transfer v04

In the configuration tested, the EUT complied with the standards specified above.

Prepared by:

Kimi Lu

Kimi Lu/ Engineer

Reviewed by:

Baret Wu

Baret Wu/ Director

Approved by:

Levi Lee

Levi Lee/ Manager

Note: The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report shall not be reproduced except in full, without prior written approval of ZHT. This document may be altered or revised by ZHT, personnel only, and shall be noted in the revision of the document.



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1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

Product Name:	Powertek 2in1 Watch Charger, 2in1 Watch Charger
Test Model No.:	827373-Watch
Hardware version:	V1.0
Software version:	V1.0
Operation Frequency:	Apple Watch coil: 320-325kHz Samsung Watch coil: 115–205kHz
Modulation type:	FSK
Antenna Type:	Inductive loop coil Antenna
Antenna gain:	0dBi
Power supply:	Input : 5 V---1 A Apple Watch wireless charging: 2.5 W Max Samsung Watch wireless charging: 2 W Max
Sample Number:	260605103YP001
Remark: The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Guangdong Zhonghan Testing Technology Co., Ltd. does not assume any responsibility.	

1.2. TEST MODES

Test Modes:	
Mode 1	AC Adapter + Apple Watch charging port (Battery Status: $\leq 1\%$) -320-325kHz-2.5 W
Mode 2	AC Adapter + Apple Watch charging port (Battery Status: 50%) -320-325kHz-2.5 W
Mode 3	AC Adapter + Apple Watch charging port (Battery Status: $\geq 98\%$) -320-325kHz-2.5 W
Mode 4	AC Adapter + Samsung Watch charging port (Battery Status: $\leq 1\%$) -115–205kHz-2 W
Mode 5	AC Adapter + Samsung Watch charging port (Battery Status: 50%) -115–205kHz-2 W
Mode 6	AC Adapter + Samsung Watch charging port (Battery Status: $\geq 98\%$) -115–205kHz-2 W
Mode 7	Standby mode
Note: All modes were tested, only the worst-case was recorded in the report. Mode 1 is the worst mode.	

1.3. AUXILIARY EQUIPMENT

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	AC Adapter	iforg	191106C	/	AE
2	Apple watch	Apple Inc.	ultra 2	/	AE
3	Samsung Watch	Samsung	SM-L310N	/	AE

2. RF EXPOSURE TEST

2.1. MEASURING STANDARD

KDB 680106 D01 Wireless Power Transfer v04

2.2. REQUIREMENTS

According to the item 5 of KDB 680106 D01 v04:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

Requirements of section 3 of KDB 680106 D01	Yes/ No	Description
Mobile Device and Portable Device Configurations	Yes	Mobile Device
Equipment Authorization Procedures for Devices Operating at Frequencies Below 4 MHz	Yes	The device operate in the frequency range 320-325kHz, 115–205kHz.
RF Exposure compliance may be ensured only for a minimum conditions at smaller distances can still be considered unlikely.separation distance that is greater than 20 cm, while use	Yes	The EUT H-field and E-field strengths at 20 cm surrounding the device.

2.3. LIMITS

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 1.1307(b)

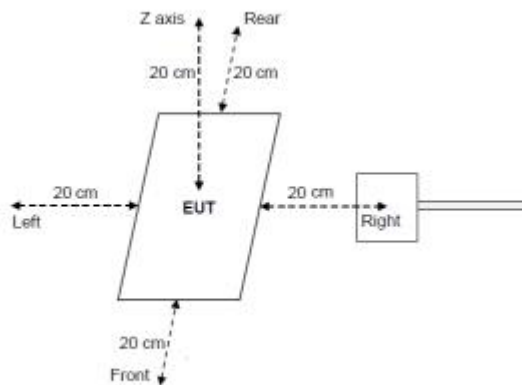
Limits for Maximum Permissible Exposure (MPE)

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 Exposures				
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
300-1500	/	/	f/300	6
1500-100,000	/	/	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
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=frequency in MHz
 *=Plane-wave equivalent power density
 RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

2.4. TEST SETUP

For mobile exposure conditions:



2.5. TEST PROCEDURE

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (20 cm from all sides and 20 cm from the top) which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v04.

Remark: The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

2.6. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	H-field	0.7dB
2	E-field	1.06dB

Decision Rule

- ☒ Uncertainty is not included
☐ Uncertainty is included

2.7. TEST INSTRUMENTS LIST

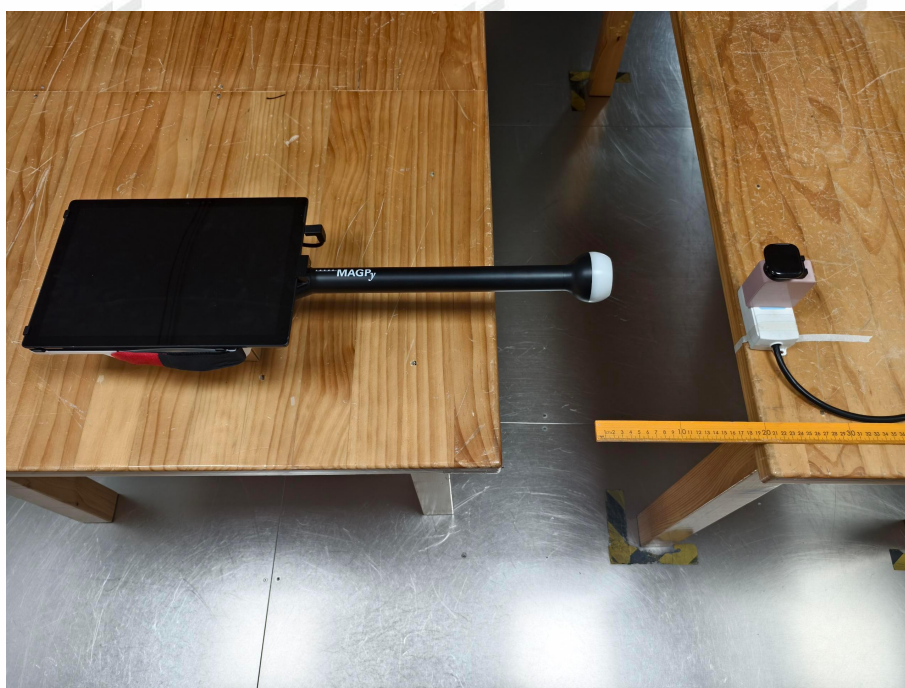
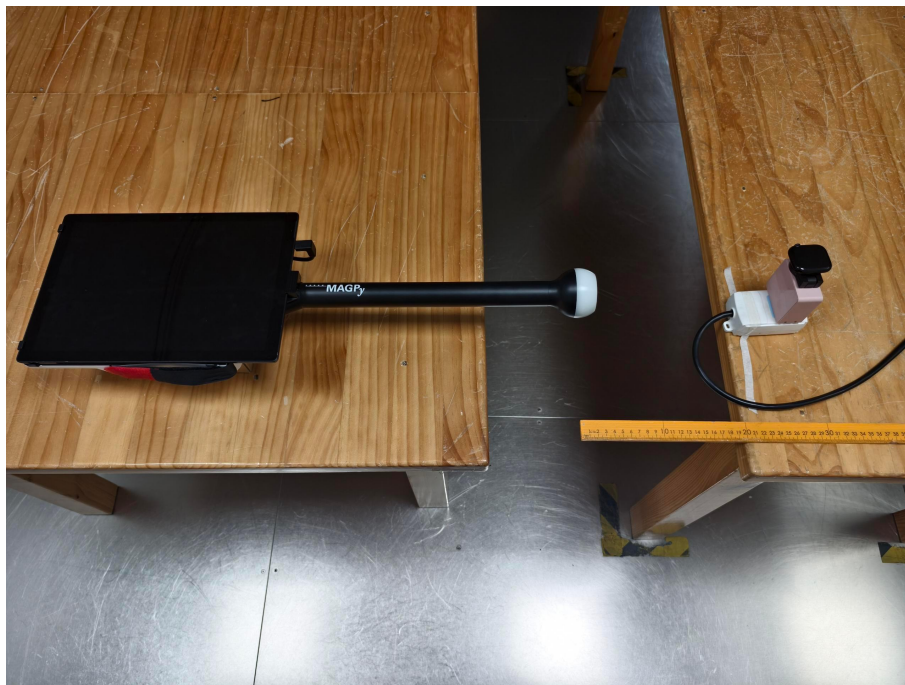
Test Equipment	Manufacturer	Model	Serial No.	Last Cal.	Next Cal.
Near-field Electric and Electric Field Sensor System	Schmid & Partner Engineering AG	MAGPy-8H3D+E3D V2	3127	September 09, 2025	September 08, 2026
Near-field Electric and Electric Field Sensor System	Schmid & Partner Engineering AG	MAGPy-DASV2	3121	September 09, 2025	September 08, 2026

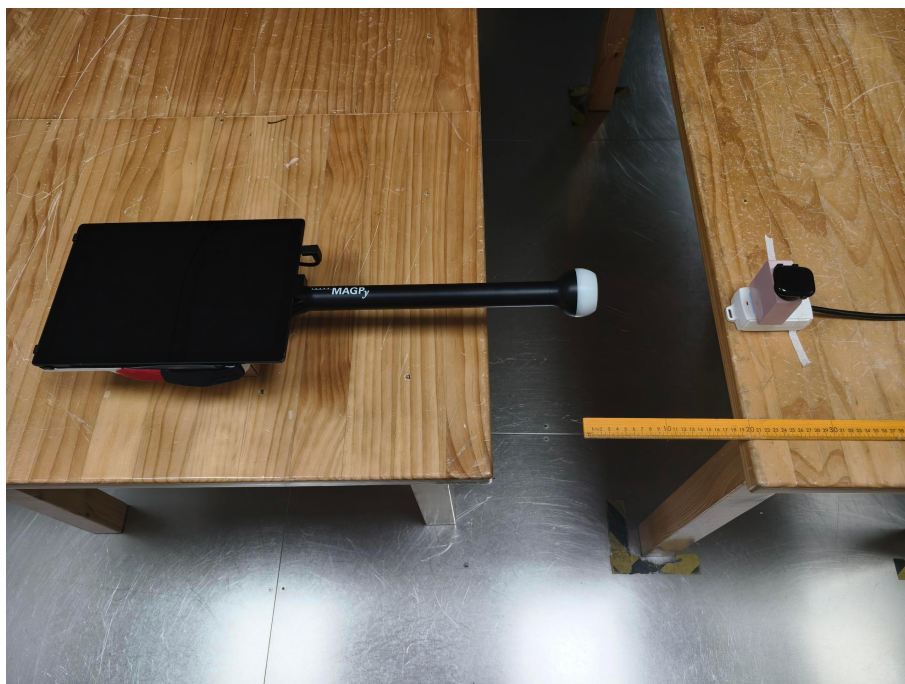
2.8. TEST RESULT

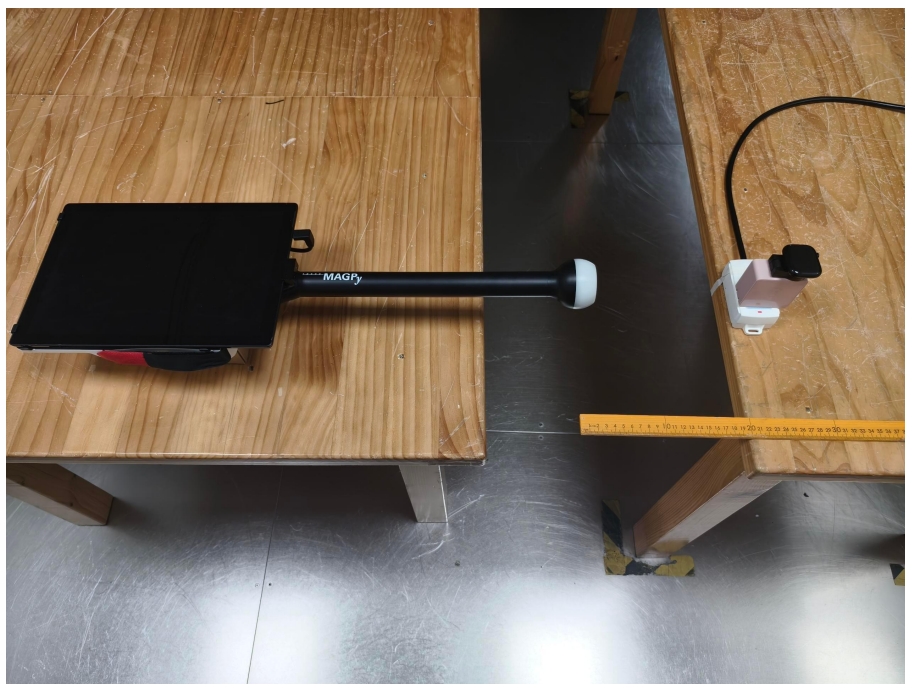
We have evaluated mode 1 to mode 7 and the worst mode 1 is showed in this report.

Test Mode	Test Position A (A/m)	Test Position B (A/m)	Test Position C (A/m)	Test Position D (A/m)	Test Position E (A/m)	50% Limits (A/m)	Limits (A/m)	test result
Mode 1	0.01	0.02	0.03	0.03	0.05	0.815	1.63	PASS
Test Mode	Test Position A (V/m)	Test Position B (V/m)	Test Position C (V/m)	Test Position D (V/m)	Test Position E (V/m)	50% Limits (V/m)	Limits (V/m)	test result
Mode 1	0.15	0.31	0.39	0.16	0.57	307	614	PASS

2.9. TEST PHOTOS







***** END OF REPORT *****