

Page: 1 of 12





# RF EXPOSURE REPORT

**Applicant:** IDZ Ltd.

18F, No. 216 Kuang Fu N. Rd, Taipei 105, Taiwan

Product Name: Charging cradle

Brand Name: Chilisin

**Model No.:** BTWH00505201TXA012

Model Difference: N/A

**Report Number:** E2/2021/30031

FCC ID 2AZO7000000001DZ1C

Issue Date: May 5, 2021

**Date of Test:** March 10, 2021 ∼ April 23, 2021

Date of EUT Received: March 10, 2021

Approved By

John Yeh / Assistant Manager

## We hereby certify that:

The above equipment was verified by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1091.

The results of this report relate only to the sample identified in this report.

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Page: 2 of 12

Revision History					
Report Number	Revision	Description	Issue Date	Revised By	
E2/2021/30031	00	Original.	May 5, 2021	Susan Lin	

### Note:

1 · Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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Page: 3 of 12

# **DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)**

#### 1.1 **Product Description**

Product Name:	Charging cradle
Brand Name:	Chilisin
Model No.:	BTWH00505201TXA012
Model Difference:	N/A
Hardware Version:	TX4004001A3
Software Version:	1202_Watch_test01.bin
EUT Series No.:	PJ213047016
Power Supply:	5Vdc from USB Cable

#### 1.2 **Test Facility**

Laboratory	Test Site Address		FCC Designation number
SGS Taiwan Ltd. Central RF Lab.		No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	TW0027
(TAF code 3702)	X	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	TW0028

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Page: 4 of 12

# 2 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

# 2.1 Standard Applicable

According to KDB 680106 D01 RF Exposure Wireless Charging App v03

RF exposure potential to users and bystanders is expected to vary according to factors inherent to the design of individual systems, which generally requires different evaluation considerations to show compliance.

When exposure concerns arise; for example, due to evolving products and operations, RF exposure evaluation may be requested under the provisions of Sections 1.1307 (c) and (d) to determine compliance. Because of significant variations in design and operating characteristics, the procedures required to evaluate RF exposure compliance for wireless power transfer are considered according to the exposure potentials of individual implementations

The RF exposure requirements must be determined in conjunction with the device operating characteristics, according to the mobile and portable exposure requirements in Sections 2.1091 and 2.1093 of the rules. SAR and MPE limits do not cover the frequency range for wireless power transfer applications which operate below 100 kHz and 300 kHz respectively; therefore, RF exposure compliance needs to be determined with respect to Sections 1.1307 (c) and (d) of the FCC rules.

# 2.2 Limits for Maximum Permissive Exposure (MPE)

Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)

Electric field strength (A/m)

(A/m)

(A) Limits for Occupational/Controlled Exposure

0.3-3.0

614

1.63

\*100

(MHz)	(V/m)	(A/m)	(mW/cm²)	(minutes)
	(A) Limits for (	Occupational/Controlled Expo	sure	
0.3-3.0	614	1.63	*100	6
3.0-30	1842/	f 4.89/f	*900/f <sup>2</sup>	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 Gene	ral Population/Uncontrolled	Exposure	
0.3-1.34	614	1.63	*100	30
1.34-30	824/	2.19/f	*180/f <sup>2</sup>	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

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Page: 5 of 12

#### 2.3 The Worst Charging Condition:

Ancillary Equipment	<b>Charging Condition</b>	Verdict
Load	Full Loading	PASS
Load	99% Loading	PASS
Load	90% Loading	PASS
Load	50% Loading	PASS
Load	10% Loading	PASS
Load	1% Loading	PASS

Note: For Wireless Power Consortium Qi specification, a lower operating frequency or high duty cycle result in the transfer of a higher amount of power and charging current.

#### 2.4 **Measurement Procedure:**

For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with proper distances measured from the center of the probe(s) to the edge of the device as per KDB 680106 D01.

#### 2.5 **Measurement Equipment Used:**

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EM RADIATION METER	Wandel&Golter mann	EMR-30	M-0006	2020/10/08	2021/10/07
Charging stand	Chilisin	BTWH00505201TX A012	PJ213047001	N/A	N/A

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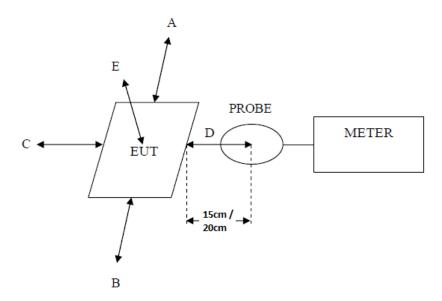
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Page: 6 of 12

#### 2.6 **Test Set-up:**



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Page: 7 of 12

#### 2.7 **Maximum Permissible Exposure (MPE) Evaluation:**

Full Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	V/m	A/m	
Front	10 cm	1.28	0.0039	
Back	10 cm	2.19	0.0043	
Left	10 cm	1.48	0.0036	
Right	10 cm	1.58	0.0040	
Тор	10 cm	1.29	0.0033	
Bottom	10 cm	0.91	0.0024	
Limit		614	0.815	

99% Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	V/m	A/m	
Front	10 cm	1.30	0.0041	
Back	10 cm	2.23	0.0045	
Left	10 cm	1.50	0.0040	
Right	10 cm	1.54	0.0032	
Тор	10 cm	1.25	0.0031	
Bottom	10 cm	0.93	0.0030	
Limit		614	0.815	

90% Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	V/m	A/m	
Front	10 cm	1.29	0.0045	
Back	10 cm	2.15	0.0039	
Left	10 cm	1.45	0.0030	
Right	10 cm	1.58	0.0038	
Тор	10 cm	1.31	0.0043	
Bottom	10 cm	0.94	0.0018	
Limit		614	0.815	

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Page: 8 of 12

# 50% Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	V/m	A/m	
Front	10 cm	1.28	0.0031	
Back	10 cm	2.22	0.0037	
Left	10 cm	1.52	0.0040	
Right	10 cm	1.62	0.0040	
Тор	10 cm	1.26	0.0035	
Bottom	10 cm	0.91	0.0026	
Limit		614	0.815	

10% Loading

Maximum Permissible Exposure				
Probe from EUT Side	Test Distance	V/m	A/m	
Front	10 cm	1.31	0.0035	
Back	10 cm	2.20	0.0047	
Left	10 cm	1.46	0.0026	
Right	10 cm	1.55	0.0032	
Тор	10 cm	1.30	0.0031	
Bottom	10 cm	0.91	0.0020	
Limit		614	0.815	

## 1% Loading

Maximum Permissible Exposure					
Probe from EUT Side	Test Distance	V/m	A/m		
Front	10 cm	1.29	0.0029		
Back	10 cm	2.17	0.0041		
Left	10 cm	1.48	0.0038		
Right	10 cm	1.61	0.0040		
Тор	10 cm	1.26	0.0035		
Bottom	10 cm	0.94	0.0020		
Limit		614	0.815		

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Page: 9 of 12

# Full Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	15 cm	0.64	0.0015
Back	15 cm	0.99	0.0018
Left	15 cm	0.57	0.0018
Right	15 cm	0.67	0.0017
Тор	15 cm	0.63	0.0017
Bottom	15 cm	0.57	0.0012
Limit	•	614	0.815

99% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	15 cm	0.68	0.0013
Back	15 cm	1.00	0.0008
Left	15 cm	0.60	0.0014
Right	15 cm	0.69	0.0009
Тор	15 cm	0.62	0.0011
Bottom	15 cm	0.59	0.0022
Limit	,	614	0.815

## 90% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	15 cm	0.64	0.0005
Back	15 cm	0.96	0.0014
Left	15 cm	0.59	0.0008
Right	15 cm	0.68	0.0015
Тор	15 cm	0.60	0.0007
Bottom	15 cm	0.60	0.0022
Limit		614	0.815

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Page: 10 of 12

# 50% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	15 cm	0.62	0.0009
Back	15 cm	0.96	0.0016
Left	15 cm	0.55	0.0010
Right	15 cm	0.67	0.0015
Тор	15 cm	0.67	0.0023
Bottom	15 cm	0.55	0.0020
Limit		614	0.815

10% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	15 cm	0.64	0.0007
Back	15 cm	0.97	0.0012
Left	15 cm	0.60	0.0026
Right	15 cm	0.67	0.0017
Тор	15 cm	0.60	0.0019
Bottom	15 cm	0.55	0.0020
Limit		614	0.815

## 1% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	15 cm	0.66	0.0013
Back	15 cm	1.00	0.0018
Left	15 cm	0.61	0.0014
Right	15 cm	0.70	0.0021
Тор	15 cm	0.66	0.0017
Bottom	15 cm	0.57	0.0018
Limit	,	614	0.815

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Page: 11 of 12

Full Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	20 cm	0.45	0.0011
Back	20 cm	0.54	0.0017
Left	20 cm	0.48	0.0009
Right	20 cm	0.45	0.0010
Тор	20 cm	0.47	0.0013
Bottom	20 cm	0.45	0.0018
Limit		614	0.815

99% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	20 cm	0.48	0.0004
Back	20 cm	0.53	0.0003
Left	20 cm	0.47	0.0014
Right	20 cm	0.44	0.0008
Тор	20 cm	0.47	0.0002
Bottom	20 cm	0.43	0.0015
Limit	•	614	0.815

90% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	20 cm	0.45	0.0018
Back	20 cm	0.54	0.0007
Left	20 cm	0.51	0.0008
Right	20 cm	0.48	0.0008
Тор	20 cm	0.45	0.0006
Bottom	20 cm	0.47	0.0009
Limit		614	0.815

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Page: 12 of 12

# 50% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	20 cm	0.45	0.0010
Back	20 cm	0.50	0.0001
Left	20 cm	0.51	0.0010
Right	20 cm	0.47	0.0008
Тор	20 cm	0.50	0.0018
Bottom	20 cm	0.43	0.0015
Limit	-	614	0.815

10% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	20 cm	0.49	0.0002
Back	20 cm	0.58	0.0007
Left	20 cm	0.52	0.0004
Right	20 cm	0.42	0.0014
Тор	20 cm	0.51	0.0014
Bottom	20 cm	0.49	0.0009
Limit		614	0.815

## 1% Loading

Maximum Permissible Exposure			
Probe from EUT Side	Test Distance	V/m	A/m
Front	20 cm	0.42	0.0006
Back	20 cm	0.52	0.0011
Left	20 cm	0.48	0.0014
Right	20 cm	0.43	0.0008
Тор	20 cm	0.51	0.0006
Bottom	20 cm	0.45	0.0009
Limit		614	0.815

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