### Radio Test Report

Report No.:CTA231109003W02

Issued for

Shenzhen Yize Innovation Technology Co., Ltd.

201, 2nd Floor, Building 3, Yunli Smart Park, Bantian Street,
Longgang District, Shenzhen, CN

Product Name: 3-in-1 charging station

Brand Name: N/A

Model Namer: E8-S1C

Series Model(s): N/A

FCC ID: 2BA6N-E8-S1C

Test Standards: FCC CFR 47 part 1, 1.1310

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#### TEST RESULT CERTIFICATION

	TEST RESULT CERTIFICATION
Applicant's Name:	Shenzhen Yize Innovation Technology Co., Ltd.
Address:	201, 2nd Floor, Building 3, Yunli Smart Park, Bantian Street, Longgang District, Shenzhen, CN
Manufacturer's Name:	Shenzhen Yuanwangxing Technology Co., LTD.
Address	Second floor, No. 7, Honghua Lane, Chihua Ling, Guihua Community, Guanlan Street, Longhua District, Shenzhen, China
Product Description	
Product Name:	3-in-1 charging station
Brand Name:	N/A
Model Name:	E8-S1C
Series Model(s):	1. N/A
Test Standards:	FCC CFR 47 part 1, 1.1310
Test Procedure:	680106 D01 RF Exposure Wireless Charging Apps v04
under test (EUT) is in compliance sample identified in the report.	been tested by CTA, the test results show that the equipment with the FCC requirements. And it is applicable only to the tested ed except in full, without the written approval of CTA, this document
	A, personal only, and shall be noted in the revision of the document.
Date of receipt of test item:	24 Oct. 2023
Date of performance of tests:	24 Oct. 2023 ~ 15 Nov. 2023
Date of Issue	15 Nov. 2023
Test Result:	24 Oct. 2023 ~ 15 Nov. 2023 15 Nov. 2023 Pass

TATESTING				
Testing Engineer	C C	Zoey Con	0	
	0	(Zoey Cao)	CTATE	
Technical Manager	:	Anny Was		
	16	(Amy Wen)		
Authorized Signatory	TESTING	Evic Wang	-mG	
		(Eric Wang)		

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#### **Revision History**

Revision History
Description   De
Rev. Issue Date Report No. Effect Page Contents
00 15 Nov. 2023 CTA231109003H01 ALL Initial Issue
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Test procedures according to the technical standards:

FCC 680106 D01 Wireless Power Transfer v04

	FCC CFR 47					
	Standard Section	Test Item	Judgment	Remark		
STI	FCC CFR 47 part1,	Electric Field Strength (E) (V/m)	PASS	60		
CTATES	1.1310 KDB680106 D01v04	Magnetic Field Strength (H) (A/m)	PASS			

#### 1.1 TEST FACTORY

Shenzhen CTA Testing Technology Co., Ltd.

Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Community, Fuhai Street, Bao'an

District, Shenzhen, China

FCC test Firm Registration Number: 517856 IC test Firm Registration Number: 27890

A2LA Certificate No.: 6534.01

IC CAB ID: CN0127

#### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expended 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	Uncertainly
1	H-filed	±0.83dB
2	E-filed	±0.91dB

#### 1.3 GENERAL DESCRIPTION OF THE EUT

Product Name	3-in-1 charging station	
Brand	N/A	
Model Number	E8-S1C	1.00
Series Model(s)	N/A	CTATES
Model Difference	N/A	
Equipemnt Category	Non-ISM frequency	
Antenna Type	Please refer to the Note 2.	
Operating frequency	Watch: 110.5-205KHz Phone: 110.5-205KHz	
Modulation Type	PFM	JG.
Rating	Input: 9V 2A DC Output: Output 1 for iPhone: 5W/7.5W/10W Output 2 for Watch: 2.5W Output 3 for earphone: 5V 0.6A 3W	G
Adapter	Input: 100-240V~50/60Hz 0.8A MAX Output: 9V 2A	
Hardware version number	N/A	
Software version number	N/A	
Connecting I/O Port(s)	Please refer to the Note 1.	

#### Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User Manual.

2.	Te	st channel list
	Coil	Frequency(KHz)
	1	126.7
	2	128.1

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	NOTE
1	N/A	E8-S1C	Coil 1	N/A	Antenna 1
2	N/A	6242-7.1UH	Coil 2	N/A	Antenna 2

The EUT antenna is Coil Antenna. No antenna other than that furnished by the responsible party shall be used with the device.

#### 1.4 EQUIPMENTS LIST FOR ALL TEST ITEMS

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until			
Electric and Magnetic field Probe - Analyzer	Narda	EHP 200A	180ZX10220	2023.02.28	2024.02.27			
CO TATE								
1.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS  Necessary accessories								

#### 1.5 DESCRIPTION OF NECESSARY ACCESSORIES AND SUPPORT UNITS Necessary accessories

Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
	Adapter	N/A	HH0024Z-090200-AG	N/A	N/A
	DC Cable	N/A	N/A	100cm	NO
	Iphone	Iphone	MPVG3CH/A	N/A	N/A
	Watch	Samsung	Active2(E060)	N/A	N/A
	Headphone charging box	Samsung	SM-R180	N/A	N/A

	-16	Support ur			
Item	Equipment	Mfr/Brand	Model/Type No.	Length	Note
N/A	N/A	N/A	N/A	N/A	N/A
		CKCTATO	-671	G	
		0	CTATE		
			6		~ (

## Note:

- (1) For detachable type I/O cable should be specified the length in cm in <code>"Length\_"</code> column.
- (2) "YES" is means "with core"; "NO" is means "without core". ле".

#### 2. MAXIMUM PERMISSIBLE EXPOSURE

#### 2.1 MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

6	Limit of Maximum Po	ermissible Exposure	9		
		Limits for Occ	cupational / Controlle	ed Exposure	
	Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time  E ², H ² or S (minutes)
	0.3-3.0	614	1.63	(100)*	6
	3.0-30	1842 / f	4.89 / f	(900 / f)*	6
	30-300	61.4	0.163	1.0	6
	300-1500	(he		F/300	6
	1500-100,000		CTATE	5	6

Limits for General Population / Uncontrolled Exposure						
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time  E ², H ² or S (minutes)		
0.3-1.34	614	1.63	(100)*	30		
1.34-30	824/f	2.19/f	(180 / f)*	30		
30-300	27.5	0.073	0.2	30		
300-1500	65		F/1500	30		
1500-100,000		(	CIR 1	30		

Note 1: f = frequency in MHz; \*Plane-wave equivalent power density

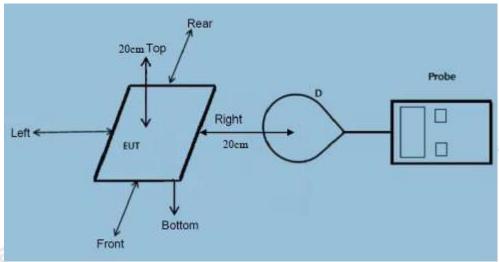
Note 2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v04 Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

Note 4: The aggregate H-field strengths at 20 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

#### 2.2 TEST PROCEDURE

a. For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 20 cm(Top) and 20cm(Edge). 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 the 20 cm(Top) and 20cm(Edge) measured from the center of the probe(s) to the edge of the device.

# 2.3 TEST SETUP



Remark: The EHP 200A probe antenna diameter is less than 11.5cm.

#### 2.4 TEST RESULTS

Equipment Approval Considerations:

- (1) The power transfer frequency is below 1 MHz. (conform)
- (2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts. (conform)
- (3) A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)

(conform)

- (4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions). (conform)
- (5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.

(conform)

(6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.

(conform)

#### 2.5 MAXIMUM PERMISSIBLE EXPOSURE

**USB Charing+Watch** 

00	D Onaring : Water		D/C		11010			
	Maximum Permissible Exposure							
	Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)			
	< 1% Battery	20cm	Front	0.36	0.112			
CTATEST	< 1% Battery	20cm	Rear	0.362	0.126			
	< 1% Battery	20cm	Left	0.39	0.136			
	< 1% Battery	20cm	Right	0.399	0.126			
	< 1% Battery	20cm	Тор	0.406	0.143			
		Limit	CCTA	614	1.63			
		Margin Limit (%)	65	0.07%	8.77%			

G	Maximum Permissible Exposure					
	Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)	
	50% Battery	20cm	Front	0.369	0.127	
(6	50% Battery	20cm	Rear	0.36	0.13	
	50% Battery	20cm	Left	0.383	0.122	
	50% Battery	20cm	Right	0.403	0.125	
	50% Battery	20cm	Тор	0.406	0.141	
	_(G	Limit		614 1.63		
TEST	M	0.07%	8.65%			
CTATEST		ESTING				
		Max	imum Permissible Ex	rnosure		

Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
99% Battery	20cm	Front	0.36	0.119
99% Battery	20cm	Rear	0.363	0.12
99% Battery	20cm	Left	0.377	0.118
99% Battery	20cm	Right	0.394	0.122
99% Battery	20cm	Тор	0.407	0.134
	Limit	TES	614	1.63
N	/largin Limit (%)		0.07%	8.22%
			CTA IL	

#### **USB Charing+Phone**

	Maximum Permissible Exposure							
	Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)			
	< 1% Battery	20cm	Front	0.347	0.108			
	< 1% Battery	20cm	Rear	0.356	0.12			
	< 1% Battery	20cm	Left	0.385	0.136			
	< 1% Battery	20cm	Right	0.408	0.133			
	< 1% Battery	20cm	Тор	0.412	0.161			
	Limit			614	1.63			
		Margin Limit (%)	CTA	0.07%	9.88%			
			(Elle		TATES			
		Maxim	um Permissible Exp	osure				

	Maxin	num Permissible Expo	sure	
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
50% Battery	20cm	Front	0.364	0.12
50% Battery	20cm	Rear	0.356	0.124
50% Battery	20cm	Left	0.384	0.129
50% Battery	20cm	Right	0.401	0.127
50% Battery	20cm	Тор	0.423	0.158
	Limit		614	1.63
G	Margin Limit (%)		0.07%	9.69%

	Maxim	um Permissible Expo	sure	
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
>99% Battery	20cm	Front	0.353	0.116
>99% Battery	20cm	Rear	0.365	0.125
>99% Battery	20cm	Left	0.371	0.117
>99% Battery	20cm	Right	0.381	0.126
>99% Battery	20cm	Тор	0.415	0.158
STATES	Limit	, NG	614	1.63
N. C.	Margin Limit (%)	TESTIL	0.07%	9.69%

#### USB Charing+Phone+Watch

Maximum Permissible Exposure							
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)			
< 1% Battery	20cm	Front	0.372	0.116			
< 1% Battery	20cm	Rear	0.373	0.136			
< 1% Battery	20cm	Left	0.406	0.15			
< 1% Battery	20cm	Right	0.394	0.142			
< 1% Battery	20cm	Тор	0.422	0.135			
=	Limit			1.63			
G	Margin Limit (%)			9.20%			

	I	um Permissible Expo	Joure	1.31
Charging	Separation	Probe from EUT	E-field (V/m)	H-field (A/m)
Orlarging	Coparation	Side	E noia (v/m)	Ti Hold (7 (111)
50% Battery	20cm	Front	0.377	0.131
50% Battery	20cm	Rear	0.354	0.133
50% Battery	20cm	Left	0.382	0.128
50% Battery	20cm	Right	0.402	0.123
50% Battery	20cm	Тор	0.413	0.149
	Limit		614	1.63
	Margin Limit (%)		0.07%	9.14%

Maximum Permissible Exposure						
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)		
>99% Battery	20cm	Front	0.363	0.124		
>99% Battery	20cm	Rear	0.356	0.131		
>99% Battery	20cm	Left	0.389	0.118		
>99% Battery	20cm	Right	0.405	0.131		
>99% Battery	20cm	Тор	0.404	0.139		
MYST	Limit		614	1.63		
- CTATES	Margin Limit (%)	-MG	0.07%	8.53%		

#### Note:

- 1. The test for Phone frequency is 128.1 KHz and 126.7 KHz for watch.
- 2. The fundamental is at least 20dB higher than the other spursious, so the strength and signal strength of the extra points of the frequency point are directly judged, and there is no need to measure the strength of multiple ranges to calculate the combined value.

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3. The human exposure time is 6 minutes and the test value is the maximum of the normal exposure time.

4. All modes have been tested, the worst mode14/12/3, only show the worst case.

All test combinations:

Mode1: iPhone charging(5W)+Watch charging+earphone charging

Mode2: iPhone charging(7.5W)+Watch charging+earphone charging

Mode3: iPhone charging(10W)+Watch charging+earphone charging

Mode4: iPhone charging(10W)+Watch charging

Mode5: iPhone charging(5W)+Watch charging

Mode6: iPhone charging(7.5W)+Watch charging

Mode7: Watch charging+earphone charging

Mode8: iPhone charging(10W)+ earphone charging

Mode9: iPhone charging(7.5W)+ earphone charging

Mode10: iPhone charging(5W)+ earphone charging

Mode11: iPhone charging(5W) only

Mode12: iPhone charging(7.55W) only

Mode13: iPhone charging(10W) only CTA TESTING

Mode14: Watch charging only

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#### **MPE SETUP PHOTO**









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