Test Report

Report No.:	MTi240307003-01E2
Date of issue:	2024-04-09
Applicant:	Shenzhen Leshiya Industrial Co.,Ltd.
Product:	3-IN-ONE Wireless Charging Station
Model(s):	AP-4546, MI-QIS12, KF-WC0715
FCC ID:	2BFOZ-AP-4546

Shenzhen Microtest Co., Ltd.

http://www.mtitest.com

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Instructions

1. This test report shall not be partially reproduced without the written consent of the laboratory.

2. The test results in this test report are only responsible for the samples submitted

3. This test report is invalid without the seal and signature of the laboratory.

4. This test report is invalid if transferred, altered, or tampered with in any form without authorization.

5. Any objection to this test report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

Contents

Test Result Certification	
Applicant:	Shenzhen Leshiya Industrial Co.,Ltd.
Address:	9-2-10B, Jindishangtangdao, Shangtang Road, Minzhi street, Longhua District, Shenzhen
Manufacturer:	Shenzhen Leshiya Industrial Co.,Ltd.
Address:	9-2-10B, Jindishangtangdao, Shangtang Road, Minzhi street, Longhua District, Shenzhen
Product description	
Product name:	3-IN-ONE Wireless Charging Station
Trademark:	KFL
Model name:	AP-4546
Series Model:	MI-QIS12, KF-WC0715
Standards:	FCC CFR 47 PART 1, § 1.1310 FCC CFR 47 PART 2, § 2.1091
Test method:	KDB 680106 D01 Wireless Power Transfer v04
Date of Test	
Date of test:	2024-04-07 to 2024-04-07
Test result:	Pass

Test Engineer : Letter. Lan.

(Letter Lan)

Reviewed By: David. Lee

(David Lee)

Approved By: Leon chen

(Leon Chen)

1 General Description

1.1 Description of the EUT

Product name:	3-IN-ONE Wireless Charging Station
Model name:	AP-4546
Series Model(s):	MI-QIS12, KF-WC0715
Model difference:	All the models are the same circuit and module, except the model name.
Electrical rating:	Input: 9Vdc 3A Wireless Output: 5W/7.5W/10W/15W(Phone), 3W(Earphone), 2.5W(Watch)
Accessories:	Cable: Type-C to Type-C cable (1.0m)*1
Hardware version:	REV: A1
Software version:	713E
Test sample(s) number:	MTi240307003-01S1001
RF specification	
Operating frequency range:	Coil 1 (Phone): 115-205KHZ Coil 2 (earphone): 115-205KHZ Coil 3 (Watch): 300-350KHz
Modulation type:	ASK
Antenna(s) type:	Coil

1.2 Description of test modes

All the test modes were carried out with the EUT in normal operation, the final test mode of the EUT was the worst test mode for emission test, which was shown in this report and defined as:

No.	Emission test modes
Mode1	Wireless output(5W)+Earphone(3W)+Watch(2.5W)
Mode2	Wireless output(7.5W)+Earphone(3W)+Watch(2.5W)
Mode3	Wireless output(10W)+Earphone(3W)+Watch(2.5W)
Mode4	Wireless output(15W)+Earphone(3W)+Watch(2.5W)
Mode5	Wireless output(5W)+Earphone(3W)
Mode6	Wireless output(7.5W)+Earphone(3W)
Mode7	Wireless output(10W)+Earphone(3W)
Mode8	Wireless output(15W)+Earphone(3W)
Mode9	Wireless output(5W)+Watch(2.5W)
Mode10	Wireless output(7.5W)+Watch(2.5W)
Mode11	Wireless output(10W)+Watch(2.5W)
Mode12	Wireless output(15W)+Watch(2.5W)
Mode13	Earphone(2.5W)+Watch(2.5W)
Mode14	Wireless output(5W)

Mode15	Wireless output(7.5W)
Mode16	Wireless output(10W)
Mode17	Wireless output(15W)
Mode18	Watch(2.5W)
Mode19	Earphone(3W)
Mode20	stand by

1.3 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support equipment list			
Description	Model	Serial No.	Manufacturer
Phone	Find X3	/	Oppo
iwatch	iwatch S7	M0JVGQG1VP	Apple
Air Pods	MQD83CH/A	/	Apple
Support cable list			
Description	Length (m)	From	To
/	/	/	/

2 Measurement uncertainty

Parameter	Expanded Uncertainty
Magnetic field measurement (9kHz~30MHz)	±18.6%
Electric field measurements (9kHz~30MHz)	±18.6%

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3 Test facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573

4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
MTi-E115	Electric and Magnetic Field Probe – Analyzer	Narda	EHP-200A	101166	2023/08/15	2026/08/14

5 Test result

5.1.1 Requirement

§1.1310: 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 §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter.

Table 1 to §1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

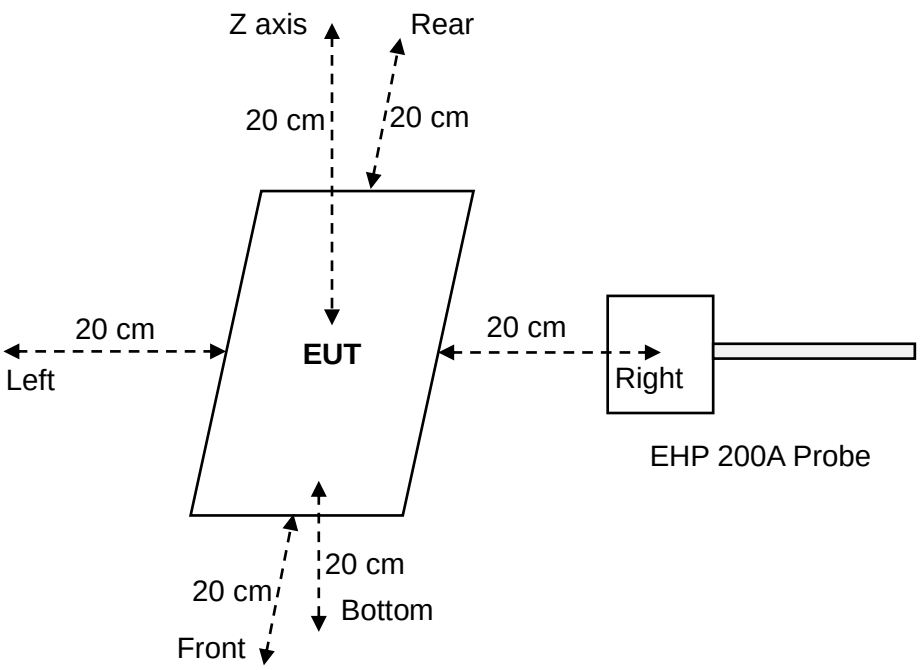
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*($900/f^2$)	<6
30-300	61.4	0.163	1.0	<6
300-1500			f/300	<6
1500-100000			5	<6
(ii) 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
1500-100000			1.0	<30

f = frequency in MHz
* = Plane-wave equivalent power density

Note 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

Note 2: General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

5.2 Test setup



5.3 Test Procedures

a. The RF exposure test was performed in anechoic chamber.

b. E and H-field measurements should be made with these devices considered to meet the § 2.1091-Mobile conditions (“generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the RF source's radiating structure(s) and [the nearest person]”).

c. The highest emission level was recorded and compared with limit.

d. The EUT was measured according to the dictates of KDB 680106 D01 Wireless Power Transfer v04.

5.4 Test results

Test condition 1: Mode 4 operating mode with client device (1 % battery status of client device)

Probe Position	E –field (V/m)			H–field (A/m)		
	Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
Z axis	1.786	614	0.32%	0.7304	1.63	44.81%
Left	1.987			0.3408		
Right	1.867			0.7016		
Front	1.689			0.6688		
Rear	1.867			0.6296		
bottom	1.791			0.6736		

Test condition 2: Mode 4 operating mode with client device (50 % battery status of client device)

Probe Position	E –field (V/m)			H–field (A/m)		
	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Z axis	1.784	614	0.33%	0.7232	1.63	44.37%
Left	2.0064			0.3414		
Right	1.8857			0.7007		
Front	1.6987			0.6745		
Rear	1.8558			0.6318		
Bottom	1.7801			0.6783		

Test condition 3: Mode 4 operating mode with client device (99 % battery status of client device)

Probe Position	E –field (V/m)			H–field (A/m)		
	Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
Z axis	1.7691	61	0.32%	0.7297	1.63	44.77%
Left	1.9831			0.333		
Right	1.8608			0.7013		
Front	1.671			0.6686		
Rear	1.8523			0.6212		
bottom	1.7858			0.6671		

Photographs of the Test Setup

See the Appendix - Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

----End of Report----