# FCC ID: 2BE73-HAOYAN

Product Name:	HadesLabs Wireless Charging Station	
Trade Mark:	N/A	
Model No.:	20231212L11	
Model Difference:	N/A	
Transmitting mode	Keep the EUT in continuously wireless charging mode	
	Input: 5V3A, 9V2A, 12V3A	
Power supply:	Phone Output: 15W/10W	
Tower suppry.	Watch Output: 5W	
	Earbuds Output: 3W	
Date of Receipt:	Feb. 01, 2024	
Test Date:	Feb. 01, 2024 - Feb. 26, 2024	
Date of Report:	Feb. 26, 2024	

Test Modes:		
Mode1.	Wireless Phone Output Mode (Full Load, 1%/50%/99%)	
Mode2.	Wireless Phone Output Mode (Half Load, 1%/50%/99%)	
Mode3.	Wireless Phone Output Mode (No Load, 1%/50%/99%)	
Mode4.	Wireless Watch Output Mode (Full Load, 1%/50%/99%)	
Mode5.	Wireless Watch Output Mode (Half Load, 1%/50%/99%)	
Mode6.	Wireless Watch Output Mode (No Load, 1%/50%/99%)	
Mode7.	Wireless Earbuds Output Mode (Full Load, 1%/50%/99%)	
Mode8.	Wireless Earbuds Output Mode (Half Load, 1%/50%/99%)	
Mode9.	Wireless Earbuds Output Mode (No Load, 1%/50%/99%)	
Mode10.	Wireless Phone + Wireless Watch + Wireless Earbuds Output Mode (Full Load, 1%/50%/99%)	
Mode11.	Wireless Phone + Wireless Watch + Wireless Earbuds Output Mode (Half Load, 1%/50%/99%)	
Mode12.	Wireless Phone + Wireless Watch + Wireless Earbuds Output Mode (No Load, 1%/50%/99%)	
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Note: 1. We have evaluated 1%, 50% and 99% battery charging mode, and the worst mode (99%) is showed in this report.

2. All modes have been tested, and the report only shows the results of the worst mode 10.

## **RF Exposure Evaluation**

### 1 Measuring Standard

KDB 680106 D01 RF Exposure Wireless Power Transfer v04

### 2 Requirements

- 3 According to the item 5 of KDB 680106 v04:
- 4 Inductive wireless power transfer applications that meet all of the following requirements are excluded from
- 5 submitting an RF exposure evaluation.

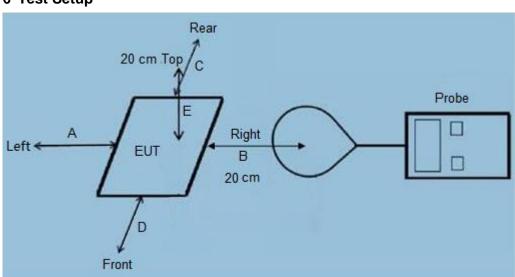
#### Limits

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/cm²)	Averaging time (minutes)
	(A) Limits for Occupational/Controlled Exp			
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
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolle			ed Exposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

### 6 Test Setup



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).

#### 7 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 v04.

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

### 8 Description of Support Units

Adapter (Provide by test lab):	Mobile phone (Provide by test lab):
Manufacturer: XIAOMI	Manufacturer: SAMSUNG
Model: AD65G	Model: Galaxy S21 5G
I/P: AC 100-240V 50/60Hz	
O/P: DC 5V/3A, DC 9V/3A, DC 10V/5A, DC 12V/3A,	
DC 15V/3A, DC 20V/3.25A	
Watch (Provide by test lab):	Headset (Provide by test lab):
Manufacturer: Apple	Manufacturer: Apple
Model: Series 6	Model: AirPods Pro

#### 9 Test Instruments list

Test Equipment	Manufacturer	Model No.	SN.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
Exposure Level Tester	Narda	ELT-400	N-0231	June. 25 2023	June. 26 2024
Magnetic field probe 100cm <sup>2</sup>	Narda	ELT probe 100cm <sup>2</sup>	M0675	June. 25 2023	June. 26 2024
Field Probe	ETS	HI-6105	/	June. 25 2023	June. 26 2024
Laser Data Interface	ETS	HI-6113	/	June. 25 2023	June. 26 2024

### 10 Test Uncertainty

E-Filed Strength :  $\pm 0.08 \text{V/m}$  H-Filed Strength :  $\pm 0.02 \text{A/m}$  uT :  $\pm 0.01$ 

Note: The field intensity value A/m in the report is converted from uT, and the formula is as follows:

uT to A/m 
$$A/m = \frac{\mu T}{1.25}$$

# 11 Test Result

# E-Filed Strength at 20 cm from the edges surrounding the EUT (V/m)

Frequency Range	Test	Test	Test	Test	Limits
(MHz)	Position A	Position B	Position C	Position D	(V/m)
0.115-0.205	0.13	0.18	0.15	0.13	614

# E-Filed Strength at 20 cm from the top of the EUT (V/m)

Frequency Range	Test	Limits
(MHz)	Position E	(V/m)
0.115-0.205	0.14	614

# H-Filed Strength at 20 cm from the edges surrounding the EUT (A/m)

Frequency Range	Test	Test	Test	Test	Limits
(MHz)	Position A	Position B	Position C	Position D	(A/m)
0.115-0.205	0.06	0.18	0.05	0.17	1.63

# H-Filed Strength at 20 cm from the top of the EUT (A/m)

Frequency Range	Test Position E	Limits	
(MHz)	POSITIONE	(A/m)	
0.115-0.205	0.19	1.63	

# 12 Test Set-up Photo

