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FCC Test Report

Test Report On Behalf of Alogic Corporation Pty Ltd For

Matrix Ultimate Fold 3-in-1 Stand with Power Bank Model No.: MFPB5KM, MFPB5KM-AU, MFPB5KQ-AU, MFPB5KM-UK, MFPB5KQ-UK, MFPB5KM-EU, MFPB5KQ-EU, MUPB5KM, MUPB5KQ, MUAWC, MFPB5KM-G

FCC ID: 2ATCA-MFPB5KM

Prepared For :

Alogic Corporation Pty Ltd Level 40, 140 William Street, Melbourne VIC 3000, Australia

Prepared By :

Shenzhen HUAK Testing Technology Co., Ltd.

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 Date of Test:
 Dec. 13, 2023 ~ Dec. 22, 2023

 Date of Report:
 Dec. 22, 2023

 Report Number:
 HK2312136073-2E

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Report No.: HK2312136073-2E

Test Result Certification

Applicant's Name:	Alogic Corporation Pty Ltd		
Address:	Level 40, 140 William Street, Melbourn	ne VIC 3000,	Australia
Manufacture's Name	Alogic Corporation Pty Ltd		
Address:	Level 40, 140 William Street, Melbourn	ne VIC 3000, .	Australia
Product Description			
Trade Mark:	N/A		
Product Name	Matrix Ultimate Fold 3-in-1 Stand with	Power Bank	
Model and/or Type Reference:	MFPB5KM, MFPB5KM-AU, MFPB5KC MFPB5KQ-UK, MFPB5KM-EU, MFPB MUPB5KQ, MUAWC, MFPB5KM-G		
Standards	FCC CFR 47 PART 18, KDB 680106 [001	

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Date of Test	
Date (s) of Performance of Tests	Dec. 13, 2023 ~ Dec. 22, 2023
Date of Issue:	Dec. 22, 2023
Test Result	Pass

Testing Engineer

(Len Liao)

Technical Manager

(Sliver Wan)

Authorized Signatory :

Mou

(Jason Zhou)

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Note:

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

2.

Channel List							
Channel	Frequency (KHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	131	<i>w</i>					
		-cSTING			15	W _C	
STING		HUAK	20	TING	HUAN		STING
HUAK			- HUAK IL			~ ~	JAK

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

2. Summary of Test Results

2.1. Test procedures according to the technical standards:

FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01

20	FCC CFR 47						
	Standard Section	Test Item	Judgment	Remark			
2.	FCC CFR 47 part1, 1.1310 KDB 680106 D01v03r01 (3)(3)	Magnetic Field Strength (H) (A/m)	PASS	HAKTSTNG			

2.2. 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	Uncertainty
1	All Emissions, Radiated(<30M)(9KHz-30MHz)	±3.90dB
	Temperature	±0.5°C
3	Humidity	±2%

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2.3. Test Mode

1967			10°
HUAN	EUT M	ode	Description
			Full Load
	Working	ANT 1	Half Load
		WANTES .	No Load
Nata: All	and a have have to a	to d and the report only reflected	

Note: All modes have been tested, and the report only reflects the worst case data.

2.4. Test Instruments

Description	Brand	Model No.	S/N	Calibrated Date	Calibrated Until
Electric and Magnetic Field Analyzer	narda	EHP-200AC	180ZX11028	Feb. 17, 2023	Feb. 16, 2024

NOTE: 1. The calibration interval of the above test instruments is 12 months.

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3. Maximum Permissible Exposure

Limit of Maximum Permissible Exposure

	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/ cm ²)	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	AK TESTING		F/300	6
1500-100,000	ne Ou	TESTING TESTING	5	6
	Limits for General	Population / Uncon	trolled 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		HUAR	F/1500	30
1500-100,000	resTING		-ce TING	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 v03.

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 1.63A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

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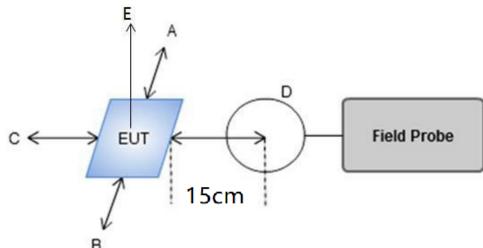
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4. Test Procedure

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 (H-field & E- field strengths for all sides is 15cm, H-field strengths of top side is 20cm).

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 15 cm measured from the center of the probe(s) to the edge of the device.

4.1 Test Setup



4.2 Result of Maximum Permissible Exposure

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For Full load:

H-Field Strength at 15 cm (E top side: 20cm) from the edges surrounding the EUT (A/m)

AK	Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (A/m)
571	A/m	0.6009	0.6222	0.6172	0.5844	0.6510	1.63

For Half Load mode:

H-Field Strength at 15 cm (E top side: 20cm) from the edges surrounding the EUT (A/m)

Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (A/m)
A/m	0.5371	0.5344	0.5260	0.5641	0.5735	1.63

For No load mode:

H-Field Strength at 15 cm (E top side: 20cm) from the edges surrounding the EUT (A/m)

Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (A/m)
A/m	0.5124	0.5036	0.4987	0.4752	0.4719	1.63

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Remark: According KDB 680106 D01 RF Exposure Wireless Charging App v03r01, section 5, b). The aggregate H-field strengths at 15 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. The E- field evaluation conducted assuming a user separation distance of 15 cm according to the KDB 680106 D01 RF Exposure Wireless Charging App v03 section 3, c).

Result: The device comply with the RF exposure requirement according to 680106 D01 v03r01, section 5, b):

(1) Power transfer frequency is less than 1 MHz..

- The device operate in the frequency range for 112 KHz~ 205 KHz

(2) Output power from each primary coil is less than or equal to 15 watts. - The maximum output power of ANT1 is 5W

(3) A the system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs can be powered on at the same time

-The transfer system including a charging system with only single primary coils is to detect and allow only

(4) Client device is placed directly in contact with the transmitter. -The EUT is placed directly in contact with the transmitter

(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

- Yes, mobile device only.

(6) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.

- The EUT meet the conditions.

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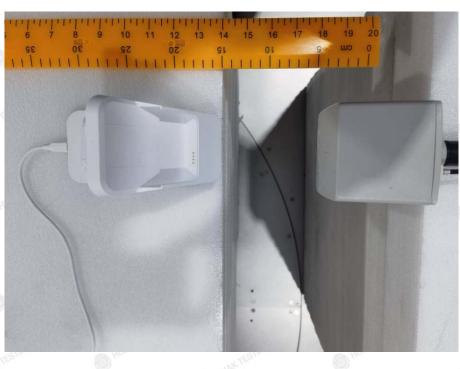
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