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RF Exposure Evaluation Report

CQASZ20210400533E-02 Report No.:

Applicant: HONGKONG VIMAI TECHNOLOGY CO., LIMITED

Address of Applicant: FLAT/RM H29,1/F PHASE 2 KWAI SHING IND BLDG NO.42-46,TAI LIN PAI

ROAD KWAI CHUNG, HONG KONG

Equipment Under Test (EUT):

Magsafe **Product:**

Q2000-Charging Model No.: Test Model No.: Q2000-Charging

N/A **Brand Name:**

FCC ID: 2AVLI-Q2000

47 CFR Part 1.1307 Standards:

47 CFR Part 1.1310

KDB 680106 D01 RF Exposure Wireless Charging Base App v03

2021-04-30 Date of Receipt:

Date of Test: 2021-04-30 to 2021-05-06

2021-05-06 Date of Issue: PASS* Test Result:

*In the configuration tested, the EUT complied with the standards specified above

lewis 2h0u
Tested By:

Reviewed By: ______(Timo Lei)

(Sheek Luo)





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1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20210400533E-02	Rev.01	Initial report	2021-05-06





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3 General Information

3.1 Client Information

Applicant:	HONGKONG VIMAI TECHNOLOGY CO.,LIMITED	
Address of Applicant:	FLAT/RM H29,1/F PHASE 2 KWAI SHING IND BLDG NO.42-46,TAI LIN PAI	
	ROAD KWAI CHUNG,HONG KONG	
Manufacturer:	HONGKONG VIMAI TECHNOLOGY CO.,LTD	
Address of Manufacturer:	Floor 3,building B,no.5 huating road,tongsheng community,dalang street,	
	longhua district,shenzhen	
Factory:	HONGKONG VIMAI TECHNOLOGY CO.,LIMITED	
Address of Factory:	FLAT/RM H29,1/F PHASE 2 KWAI SHING IND BLDG NO.42-46,TAI LIN PAI	
	ROAD KWAI CHUNG,HONG KONG	

3.2 General Description of EUT

Product Name:	Magsafe
Model No.: Q2000-Charging	
Test Model No.:	Q2000-Charging
Brand Name:	N/A
Hardware Version:	Q2000-Charging-V1.0-20201029
Software Version:	Q2000-Charging-V1.0-20201023
EUT Power Supply:	9V 2.5A

3.3 Product Specification subjective to this standard

Equipment Category:	Non-ISM frequency
Operation Frequency range:	110kHz~205kHz
Modulation Type:	Induction
Antenna Type:	Induction coil
Antenna Gain:	0dBi
Power:	Output: 15W(Max)

Note:

1. In section 15.31(m), regards to the operating frequency range less 1 MHz.



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3.4 Test Environment

Operating Environment	:
Temperature:	25.5 °C
Humidity:	53 % RH
Atmospheric Pressure:	1009 mbar
Test Mode:	
Mode a:	Wireless output Mode at 5W
Mode b:	Wireless output Mode at 7.5W
Mode c:	Wireless output Mode at 10W
Mode d:	Wireless output Mode at 15W

3.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Adapter	HUAWEI	LPL-C010050200Z	DOC	CQA
2) Cable				
Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by



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3.6 Test Location

Shenzhen Huaxia Testing Technology Co., Ltd,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

3.7 Test Facility

• A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

3.8 Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
	Narda	t NBM-520	SB9873	2020/10/18	2021/10/17
Broadband Field	Safety Test				
Meter	Solutions				
	GmbH				
Magnetic field	HIOKI	2470	SB9058/04	2020/12/14	2021/12/13
probe	HIOKI	3470	3030704	2020/12/14	2021/12/13



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4 RF Exposure Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

According to FCC Part1.1310: 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 part1.1307(b)

Table 1—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) Lim	its for Occupational	/Controlled Exposure	es	
0.3–3.0	614 1842/f	1.63 4.89/f	*(100) *(900/f²)	6
30–300 300–1500	61.4	0.163	1.0 f/300	6
1500–100,000			5	6
(B) Limits 1	for General Populati	on/Uncontrolled Exp	osure	
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
1500–100,000			1.0	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 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

Note 4: The aggregate H-field strengths at 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 .

4.1.2 Test Procedure

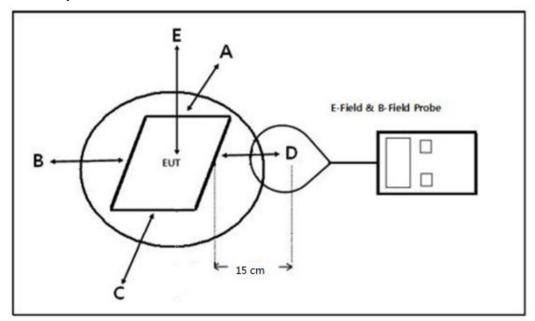
For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 20 cm(Top) and 15cm(Edge). E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 20 cm(Top) and 15cm(Edge) measured from the center of the probe(s) to the edge of the device.





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4.1.3 Test Setup



Note: Position A: Front of EUT; Position B: Left of EUT; Position C: back of EUT; Position D: Right of EUT; Position E: Top of EUT(20 cm measure distance);

4.1.4 Test Results

The EUT does comply with item 5 KDB680106 D01 v03.

- (1) Power transfer frequency is less than 1 MHz. (Conform)
- (2) Output power from each primary coil is less than or equal to 15 watts. (Conform)
- (3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.

 (Conform)
- (4) Client device is placed directly in contact with the transmitter. (Conform)
- (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion). (Conform)
- (6) 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. (Conform)



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Test condition: Mode d

E-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(V/m)
	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	
156.3kHz	2.63	2.04	1.42	1.25	1.78	614

H-field strength test result:

Frequency	Probe	Probe	Probe	Probe	Probe	Limit
Range	Position A	Position B	Position C	Position D	Position E	(A/m)
	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	
156.3kHz	0.38	0.47	0.31	0.28	0.36	1.63

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Test Model No.: Q2000-Charging



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