

# **Human Exposure Report**

Project No.	:	2008C086
Equipment	:	Wireless Charger
Brand Name	:	PORSCHE DESIGN
Test Model	:	PDS50-charging pad
Series Model	:	PDS50/00-charging pad
Applicant	:	MMD Hong Kong Holding Limited
Address	:	Units 1006-1007, 10th Floor, C-Bons International Center, 108 Wai Yip
		Street, Kwun Tong, Kowloon, Hong Kong
Manufacturer	:	MMD Hong Kong Holding Limited
Address	:	Units 1006-1007, 10th Floor, C-Bons International Center, 108 Wai Yip
		Street, Kwun Tong, Kowloon, Hong Kong
Factory	:	Guoguang Electric Co.,Ltd.
Address	:	No.8 Jinghu Road, Xinya Street, Huadu Reg, Guangzhou, China
Date of Receipt	:	Aug. 07, 2020
Date of Test	:	Aug. 07, 2020 ~ Aug. 26, 2020
Issued Date	:	Sep. 07, 2020
Report Version	:	R00
Test Sample	:	Engineering Sample No.: DG20200810211
Standard(s)	:	47 CFR PART 1, Subpart I, Section 1.1310
		KDB680106 D01 RF Exposure Wireless Charging Apps v03

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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Table of Contents	Page
REPORT ISSUED HISTORY	3
1 . GENERAL INFORMATION	4
1.1 TEST FACILITY	4
2. TEST RESULTS	4
2.1 LIMITS	4
2.2 MEASUREMENT DATA	5
3 . MEASUREMENT INSTRUMENTS LIST	5
4. TEST PHOTOS	6



REPORT ISSUED HISTORY					
Report Version	Description	Issued Date			
R00	Original Issue.	Sep. 07, 2020			
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# 1. GENERAL INFORMATION

### 1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China. BTL's test firm number for FCC: 357015 BTL's designation number for FCC: CN1240

# 2. TEST RESULTS

## 2.1 LIMITS

Frequency range	Electric field	Magnetic field	Power density	Averaging time	
(MHz)	strength (V/m)	strength (A/m)	(m/W/cm <sup>2</sup> )	(minutes)	
(A) Limits for Occupational / Controlled Exposures					
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	/	1	f/300	6	
1500-100000	/	/	5	6	
(B) Limits for General Population / Uncontrolled Exposures					
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	
1500-100000	/	/	1.0	30	

#### For 47 CFR PART 1, Subpart I, Section 1.1310:

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).

#### For KDB680106 D01:

For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. 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. 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.

# 2.2 MEASUREMENT DATA

**Electric Field Emissions** 

Probe Measure Results (V/m)	Limit (V/m)	
intermediate charge		
1.68	614	
	intermediate charge	

Test Position(15cm)	Probe Measure Results (V/m)	Limit (V/m)	
	intermediate charge	· · · /	
Front Side	0.93	614	
Back Side	1.01	614	
Left Side	0.92	614	
Right Side	0.84	614	
Bottom	1.65	614	

Note:

The maximum Probe Measure Results of this EUT is 1.68 V/m, less than 307 V/m(614 \*50%).

Magnetic Field Emissions

Test Position(20cm)	Probe Measure Results (A/m)	Limit (A/m)	
	intermediate charge	(A/III)	
Тор	0.041	1.63	

Test Position(15cm)	Probe Measure Results (A/m)	Limit (A/m)	
	intermediate charge	(///////	
Front Side	0.032	1.63	
Back Side	0.034	1.63	
Left Side	0.027	1.63	
Right Side	0.023	1.63	
Bottom	0.055	1.63	

Note:

The maximum Probe Measure Results of this EUT is 0.055 A/m, less than 0.815 V/m(1.63\*50%).

Remark:

- 1. The EUT has the maximum average output power when the support unit is in low power and being charged by EUT.
- 2. The transfer system includes only single primary. The transfer system desinged by Wireless Power Consortium (WPC). The main purpose is Provide convenient and universal wireless charging for mobile phones and other portable electronic devices. Under the Qi standard, the transmission and reception use flat inductors to transmit energy by inductive coupling.

## 3. MEASUREMENT INSTRUMENTS LIST

Human Exposure					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EM Radiation Meter	N/A	EMR-30	E-081	Apr. 14, 2021

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.



# 4. TEST PHOTOS













