



# EXPOSURE REPORT

FCC ID: 2AUFWOL

Date of issue: Dec. 31, 2021

Report Number: MTi20090801-1E2

Sample Description: OL DESK LAMP

Model(s): OL

Applicant: Dongguan You You Lighting Technology Co., Ltd

Address: 4th Floor, Building A, No. 1724, Provincial Road S358, Xiabian Community, Changan Town, Dongguan City, Guangdong Pro.

Date of Test: Sept. 18, 2020 - Dec. 31, 2021

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.com>

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## Test Result Certification

Applicant's name: Dongguan You You Lighting Technology Co., Ltd

Address: 4th Floor, Building A, No. 1724, Provincial Road S358, Xiabian Community, Changan Town, Dongguan City, Guangdong Pro.

Manufacture's name: Dongguan You You Lighting Technology Co., Ltd

Address: 4th Floor, Building A, No. 1724, Provincial Road S358, Xiabian Community, Changan Town, Dongguan City, Guangdong Pro.

Product name: OL DESK LAMP

Trademark: Yoursmay

Model name: OL

Standard: FCC CFR 47 PART 1 , 1.1310

RF Exposure Procedures: KDB 680106 D01 RF Exposure Wireless Charging App v03

This device described above has been tested by Shenzhen Microtest Co., Ltd. and the test results show that the equipment under test (EUT) compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

Tested by:

Danny Xu

Dec. 31, 2021

Reviewed by:

Leon Chen

Dec. 31, 2021

Approved by:

Tom Xue

Dec. 31, 2021



## 1 General Information

### 1.1 Description of EUT

Product name:	OL DESK LAMP
Brand name:	Yoursmay
Model name:	OL
Series model:	N/A
Deference in serial model:	N/A
Operation frequency:	115–205 kHz
Operational mode:	Wireless charging
Modulation type:	FSK
Antenna type:	Coil Antenna
Power source:	AC 120V/60Hz
Battery:	N/A
Adapter information:	N/A

### 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
Mode 1	TX(5W)



## 1.3 Ancillary equipment list

Equipment	Model	S/N	Manufacturer
Mobile phone	S9+	/	SAMSUNG

## 1.4 Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %,  $U=2\times U_{\text{C}}(y)$

Radiated emission(150kHz~30MHz)	$\pm 2.5$ dB
Radiated emission(30MHz~1GHz)	$\pm 4.2$ dB
Radiated emission (above 1GHz)	$\pm 4.3$ dB
Temperature	$\pm 1$ degree
Humidity	$\pm 5$ %



## 2 Testing site

Test Site	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.
FCC Registration No.:	448573



### 3 List of test equipment

Equipment No.	Equipment Name	Manufacturer	Model	Serial No.	Calibration date	Due date
MTI-E115	Electric and Magnetic Field Probe – Analyzer	Narda	EHP-200A	101166	2021/06/02	2022/06/01



## 4 Test Results

### 4.4 Maximum permissible exposure

#### 4.4.1 Limit

Frequency range(MHz)	Electric field strength(V/m)	Magnetic field strength(A/m)	Power density(mW/cm <sup>2</sup> )	Averaging time(minutes)
(A) Limits for Occupational/Controlled Exposure				
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	6
300-1500			f/300	6
1500-100000			5	6
(B) 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 <sup>2</sup>	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100000			1	30

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

#### 4.4.2 Test Procedures

E and H-field measurements should be made with the center of the probe at a distance of 15 cm surrounding the device and 20 cm above the top surface of the primary/client pair.

These measurements should be repeated for three different client battery levels, 1%, 50%, and 99%.

Record the test results.

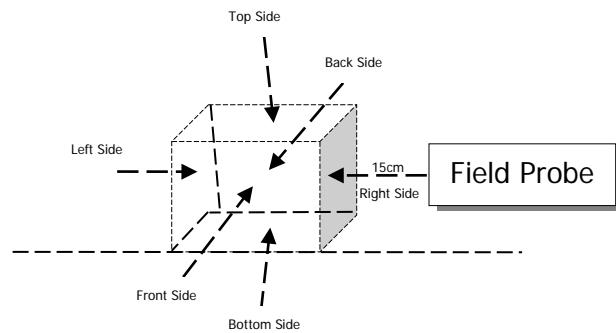
KDB 680106 D01 RF Exposure Wireless Charging App v03:

- (1) Power transfer frequency is less than 1MHz.
- (2) Output power from each primary coil is less than or equal to 15 watts.
- (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.
- (4) Client device is placed directly in contact with the transmitter.
- (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
- (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.



Note: The device is in compliance with KDB 680106 D01 RF Exposure Wireless Charging App v03 6 conditions.

#### 4.4.3 Test Setup





#### 4.4.4 Test Result

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<1%	Top	20	0.42	0.0116
<1%	Bottom	15	0.40	0.0113
<1%	Left	15	0.42	0.0112
<1%	Right	15	0.42	0.0108
<1%	Front	15	0.41	0.0105
<1%	Back	15	0.41	0.0112
Limit			614	1.63
Margin Limit (%)			0.069%	7.12%

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<50%	Top	20	0.41	0.0119
<50%	Bottom	15	0.40	0.0115
<50%	Left	15	0.41	0.0113
<50%	Right	15	0.41	0.0108
<50%	Front	15	0.41	0.0110
<50%	Back	15	0.42	0.0112
Limit			614	1.63
Margin Limit (%)			0.069%	7.30%

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<99%	Top	20	0.43	0.0120
<99%	Bottom	15	0.41	0.0109
<99%	Left	15	0.40	0.0107
<99%	Right	15	0.41	0.0105
<99%	Front	15	0.42	0.0111
<99%	Back	15	0.41	0.0106
Limit			614	1.63
Margin Limit (%)			0.070%	7.36%



4.4.5 MPE Setup photo



**----END OF REPORT----**