

Test Report

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ETSI EN 303 417 V1.1.1 (2017-09)

For

Product: Wireless Charger

Model: MO2651

Report No.: RKEYS250731241

Issued for

Mid Ocean Brands B.V.

Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.

Issued by

Guangdong KEYS Testing Technology Co., Ltd.

Address: Building 1, No.18, Shihuan Road, Dongcheng Subdistrict, Dongguan, Guangdong, China



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FOR WIRELESS CHARGER	



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1. TEST RESULT CERTIFICATION

Applicant's name : Mid Ocean Brands B.V.

Address : Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan,

Kowloon, Hong Kong.

Manufacture's name : 117486

Address : N/A

Product name : Wireless Charger

Model name : MO2651

This device described above has been tested by KEYS, and the test results show that the equipment under test (EUT) is in compliance with the 2014/53/EU RED Directive Art.3.2 requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests:	Jul.31, 2025 to Aug. 05, 2025
Data of Issue	Aug 05, 2025

Test Result: Pass

Test Engineer: Linda Ohen

Linda Chen / Engineer

Technical Manager:

Bruce Zhang / Manager



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2. TEST SUMMARY

Clause No.	Test Item	Verdict	
4.3.2	Permitted range of operating frequencies	PASS	
4.3.3	Operating frequency ranges	PASS	
4.3.4	H-field requirements	PASS	
4.3.5	Transmitter spurious emissions		
4.3.6	Transmitter out of band (O0B) emissions	PASS	
4.3.7	WPT system unwanted conducted emissions	N/A	
4.4.2	Receiver blocking	PASS	



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3. General Information

3.1. General Description of E.U.T.

16	Г	100
Product Name	6	Wireless Charger
Model Name	:	MO2651
WPC wireless charger	:	110 - 205 KHz
Antenna Type	:	PCB Antenna
Power supply	Tool	Model: MOB/MO2651 Input: DC 9V 2A, 5V 2A Output: DC 5V 1A, 7.5V 1A, 9V 1.1A, 9V 1.67A
Modulation Type:	ĭ	ASK
Operation Frequency:	:	110.0~205.0KHz
Operational Mode:	(

Note: For more details, please refer to the User's manual of the EUT.

3.2. Test frequency list

Low channel	110.0kHz	9	600	
High channel	205.0kHz		9	100

3.3. Test mode

The EUT has been tested under typical operating condition. The Applicant provides software to control the EUT for staying in continuous transmitting for testing.

Pre-scan above all rating output, found 5V OUTPUT was worse case, so only show the test data for worse case mode on the test report.

3.4. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

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Support u	ınit	CE ,	9	
Item	Equipement	Trade Name	Model No.	Power cord
N/A	N/A	N/A	N/A	N/A

3.5. Environmental Conditions

	Temperature	15 °C to +35 °C
Normal	Relative	20 % to 55 %.
Normal Condition	humidity	20 % 10 33 %.
Continui	Valtaga	the equipment shall be the nominal voltage for which the equipment was
	Voltage	designed.
	Toman omotivno	Measurements shall be made over the extremes of the operating temperature range
Extreme	Temperature	as declared by the manufacturer
Condition	V alta aa	Measurements shall be made over the extremes of the operating voltage range as
	Voltage	declared by the manufacturer

Normal Condition	TN=Normal Temperature	25 °C	C.
	TL=Lower Temperature	-20 °C	
Extreme Condition	TH=Higher Temperature	60 °C	

3.6. Statement of the Measurement Uncertainty

Test Items	Measurement Uncertainty	Notes	
Frequency error	70Hz for<1GHz	(1)	
Trequency error	130Hz for >1GHz		
Transmitter spurious emissions	4.36dB for<1GHz	(1)	
Transmitter spurious emissions	5.10dB for >1GHz	(1)	
Receiver blocking	1.91 dB	(1)	

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

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Equipments Used during the Test

RF Conducted Test Equipment

Name of Equipment	Manufacturer	Model	Serial No.	Calibration Date	Cal. Interval
Signal Generator	Agilent	N5182A	KEYS-EL-237	Mar. 03, 2025	1 Year
Spectrum Analyzer	Keysight	N9020A	MY57440518	Mar. 03, 2025	1 Year
Power Switch	WCS Technology	SMU-3002	SMU3002250301A	Apr.16, 2025	1 Year
DC Power source	Agilent	E3632A	MY40023743	Mar. 03, 2025	1 Year
Temperature Chamber	Guangke	GK-TH-1000	/	Oct.12,2024	1 Year

Radiated Emissions Test Equipment

177.177				40 CO	_
Name of Equipment	Manufacturer	Model	Serial No.	Calibration Date	Cal. Interval
EMI Test Receiver	Rohde&Schwarz	ESCI7	KEYS-EL-205	Mar. 03, 2025	1 Year
Logarithmic Periodic Broadband Antenna	Schwarzbeck	VULB9168	KEYS-EL-209	Mar. 06, 2025	3 Year
Horn antenna	Schwarzbeck	BBHA9120D	03083	Mar. 06, 2025	3 Year
Preamplifier	НР	EM330	KEYS-EL-210	Mar. 03, 2025	1 Year
3m standard semi-anechoic chamber	Taihe MaoRui	9*6*6	KEYS-EL-234	Oct. 12, 2024	5 Year
Test Software	Tonscend		JS32-R	E Version 5.0.0	10,59



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5. Test Conditions and Results

5.1. Permitted range of operating frequencies

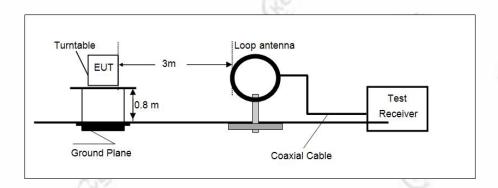
5.1.1.LIMIT

The permitted range of operating frequency range(s) for intentional emissions shall be within 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz, see Table 2 as follow:

Table 2: Overview of operational modes within a WPT system

Operational Mode	Set-up	Function of base station	Function of mobile device	Test scenario	Conformance Requirements
Mode 1: base station in stand-by, idle mode	Single device	Transmitter	Not applicable	Single radiation test (TX) with the base station/charging pad. The test set-up as described in clause 6.1.2 shall be used.	Operating frequency range (clause 4.3.3) H-Field emission (clause 4.3.4) TX spurious (clauses 4.3.5, 4.3.6 and 4.3.7) Performance criteria test (RX test) (clause 4.4)
Mode 2: Communication before charging, adjustment charging mode / position	In combination	TX and RX	TX and RX	Specific test setup, declared by the manufacturer. Manufacturer shall declare the maximal distance between base station and mobile device the WPT system is able to communicate (distance D). The test setup- up shall be performed with the largest communication distance. The test set-up as described in clause 6.1.3 shall be used.	Operating frequency range (clause 4.3.3) H-Field emission (clause 4.3.4) TX spurious (clauses 4.3.5, 4.3.6 and 4.3.7) Wanted performance criteria test (RX test) (clause 4.4)
Mode 3: Communication	WPT system alignment	TX and RX	TX and RX	Worst case alignment	Operating frequency range (clause 4.3.3) H-Field emission (clause 4.3.4)
Mode 4: energy transmission	WPT system alignment	TX and RX	TX and RX	Both tests can be performed within one set-up, worst-case alignment. The test set-up as described in clause 6.1.4 shall be used.	TX spurious (clauses 4.3.5, 4.3.6 and 4.3.7) Wanted Performance criteria test (RX test) (clause 4.4)

5.1.2. TEST CONFIGURATION



5.1.3. TEST PROCEDURE

1. The test conditions.

Normal conditions ☐ Extreme conditions

2.Please refer to ETSI EN 303417 (V.1.1.1) Sub-clause 4.3.2.4 for the conformance.

5.1.4. TEST MODE:

The EUT was programmed to be in continuously transmitting mode.

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5.1.5. TEST RESULTS

PASS

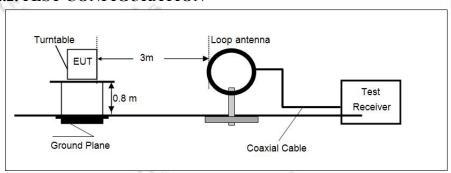
The manufacturer declare: the frequency ranges of EUT conform the permitted range: 100-300KHz

5.2. Operating frequency ranges

5.2.1. LIMIT

The operating frequency range for emissions shall be within one of the following limits: 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz.

5.2.2. TEST CONFIGURATION



5.2.3. TEST PROCEDURE

- 1. The test conditions.
- 2.Please refer to ETSI EN 303417 (V.1.1.1) Sub-clause 6.2.1 and 4.3.3.2 for the measurement method.

5.2.4. TEST MODE

The EUT was programmed to be in continuously transmitting mode.

5.2.5. TEST RESULTS



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For WPT system

cc	ondition		OBW				
TEMP	VOL	Test channel	(KHz)	FL	FH	LIMIT	Verdict
Normal	Normal	FCL	0.677	137.9715	-	A	
TVOITILAT	Norman	FCH	0.787	Œ.	201.8735	2	
8	LV	FCL	0.675	137.9725	-(%)	Within	049
		FCH	0.784	-	201.872	100- 300KHz	PASS
LT	HV	FCL	0.669	137.9755	-	i da	
E	11 V	FCH	0.798		201.879		150
	LV	FCL	0.671	137.9745	-		
	D,	FCH	0.779	60	201.8695		
HT	HV	FCL	0.684	137.968	-	(E)	
	11 4	FCH	0.781	-	201.8705	Y	(Eles

Note: fL= fCL-0.5OBW, fH = fCH+0.5OBW



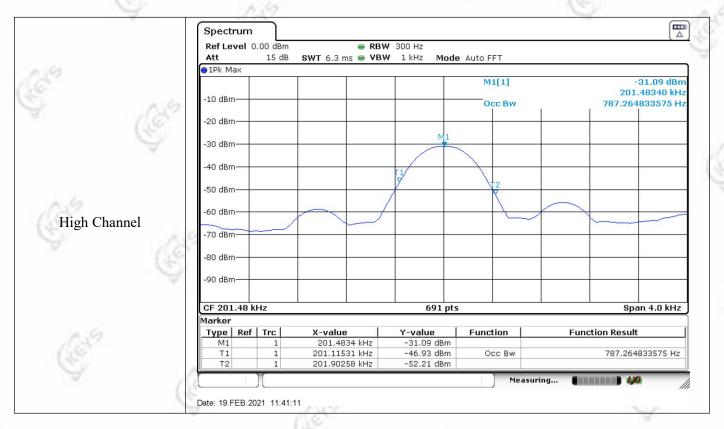
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Normal condition: Spectrum Ref Level 0.00 dBm ■ RBW 300 Hz Att Mode Auto FFT ●1Pk Max M1[1] -34.43 dBn 138.61100 kHz -10 dBm Occ Bw 677.279305355 Hz -20 dBm--30 dBm-40 dBm -50 dBm Low Channel -60 dBm -90 dBm-Span 4.0 kHz CF 138.31 kHz 691 pts Function **Function Result** Type | Ref | Trc | X-value Y-value 138.611 kHz 138.27527 kHz -34.43 dBm -48.23 dBm 677.279305355 Hz Occ Bw 138.95255 kHz

Date: 19.FEB.2021 11:39:28



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5.3. H-field requirements

5.3.1.LIMIT

The H-field limits are provided in Table 3.

They have been specified for control of any radiated emissions within the OFR originating from the WPT system (power transmission and accompanying data communication).

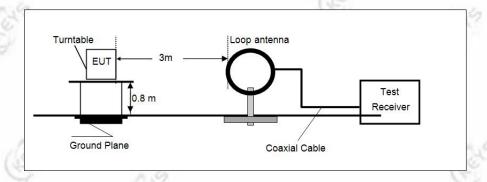
The H-field limits in Table 3 are EU wide harmonised according to EC Decision 2013/752/EU [i.2]. Further information is available in CEPT/ERC/REC 70-03 [i.1].

Table 3: H-field limits

Frequency range [MHz]	H-field strength limit [dBµA/m at 10 m]	Comments
0,019 ≤ f < 0,021	72	
0,059 ≤ f < 0,061	69,1 descending 10 dB/dec above 0,059 MHz	See note 1
0,079 ≤ f < 0,090	67,8 descending 10 dB/dec above 0,079 MHz	See note 2
0,100 ≤ f < 0,119	42	
0,119 ≤ f < 0,135	66 descending 10 dB/dec above 0,119 MHz	See note 1
0,135 ≤ f < 0,140	42	
0,140 ≤ f < 0,1485	37,7	
0,1485 ≤ f < 0,30	-5	
6,765 ≤ f < 6,795	42	

NOTE 1: Limit is 42 dBμA/m for the following spot frequencies: 60 kHz ± 250 Hz and 129,1 kHz ± 500 Hz.
NOTE 2: At the time of preparation of the present document the feasibility of increased limits for high power wireless power transmission systems to charge vehicles [i.4] was prepared. New specific requirements for such systems (e.g. higher H-field emission limits in the 79 - 90 kHz band) will be reflected within a future revision of the present document.

5.3.2. TEST CONFIGURATION



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5.3.3. TEST PROCEDURE

1. The test conditions.

2.Please refer to ETSI EN 303417 (V.1.1.1) Sub-clause 6.2.1 for the measurement method.

5.3.4. TEST MODE

The EUT was programmed to be in continuously transmitting mode.

5.3.5. TEST RESULTS

Remark: The test includes extreme mode and normal mode, but only the worst mode data ((normal model) is recorded on the report

For WPT system

Test co	ndition:	6			N	Vormal		A 61	
Frequency (MHz)	Read Level@3m (dBuA)	Antenna Factor (dBs/m)	Cable Loss (dB)	Preamp Factor (dB)	Level @3m (dBuA/m)	Level@10 m (dBuA/m)	Limit@10 m (dBuA/m)	Over Limit (dB)	Test value
0.02	18.55	20	0.06	0	38.61	14.78	72	-57.22	QP
0.112	15.41	20	0.06	0	35.47	11.58	42	-30.42	QP
0.138	41.35	20	0.06	0	61.41	37.55	42	-4.45	QP
0.144	22.76	20	0.06	0	42.82	19.21	37.7	-18.49	QP
0.201	-5.25	20	0.06	0	14.81	-8.81	-5.34	-3.47	QP

Note: $H_{10m} = H_{3m} - C_3$

C3 = 23.87dB

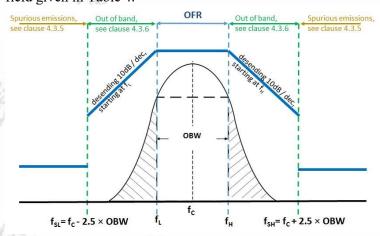


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5.4. Transmitter spurious emissions

5.4.1. LIMIT

The radiated field strength of spurious emissions below 30 MHz shall not exceed the generated H-field given in Table 4.



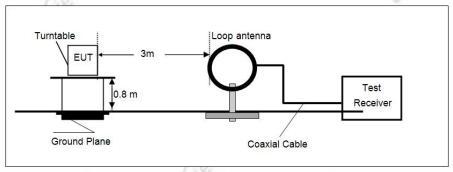
The power of any radiated spurious emission between 30 MHz and 1 GHz shall not exceed the values given in Table 5.

Table 5

State (see note)	47 MHz to 74 MHz 87,5 MHz to 118 MHz 174 MHz to 230 MHz 470 MHz to 790 MHz	Other frequencies between 30 MHz to 1 000 MHz
Operating	4 nW	250 nW
Standby	2 nW	2 nW

5.4.2. TEST CONFIGURATION

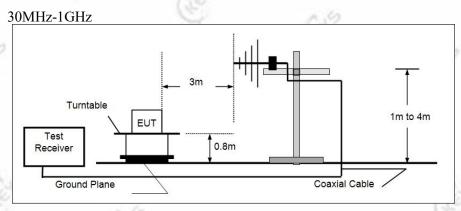
Below 30MHz



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5.4.3. TEST PROCEDURE

- 1. The test conditions.
- 2. Please refer to ETSI EN 303417 (V.1.1.1) Sub-clause 6.2.1 for the measurement method.

5.4.4. TEST MODE:

The EUT was programmed to be in continuously transmitting mode.

5.4.5. TEST RESULTS

Below 30MHz:

For WPT system

Frequency (MHz)	Level (dBuA/m) @3m	Level Line (dBuA/m)@10m	Limit Line (dBuA/m)@10m	Over Limit (dB)	Test value
0.04	31.67	0.40	23.18	-22.78	QP
0.08	20.14	-11.12	18.26	-29.38	QP
0.42	11.25	-19.95	12.94	-32.89	QP
0.70	10.26	-20.89	9.46	-30.35	QP
0.97	12.68	-18.42	5.95	-24.37	QP
7.20	-13.01	-40.75	-1.75	-39	QP

Note:

- 1. $H_{10m} = H_{3m} C_3$
- 2.Level=Reading Value+Antenna factor +Cable loss-AMP

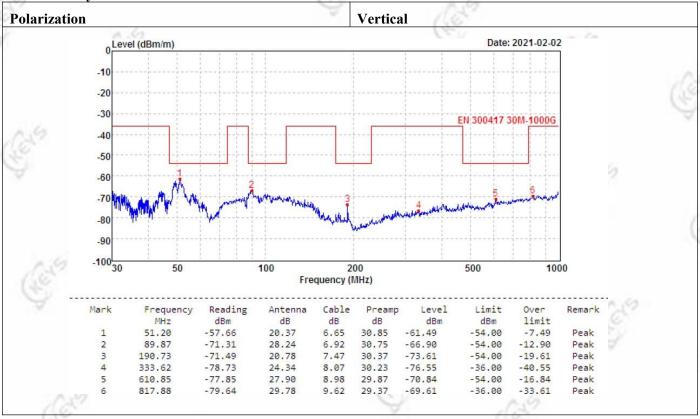
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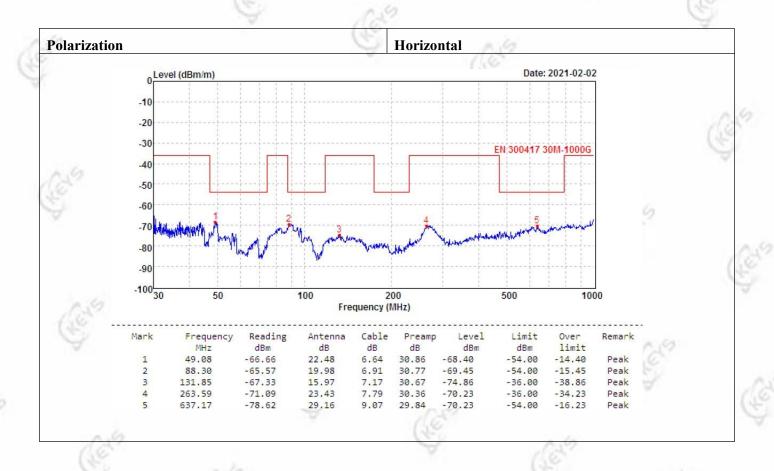
Above 30MHz:

For WPT system





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5.5. Transmitter out of band (OOB) emissions

5.5.1. LIMIT

The OOB limits are visualized in Figures 4 and 5; they are descending from the intentional limits from Table3 at f_H/f_L with 10 dB/decade.

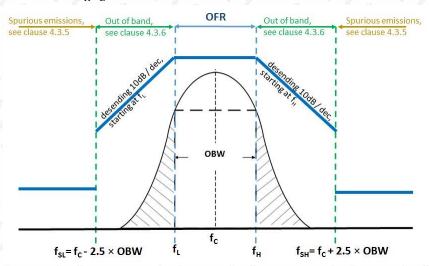


Figure 4: Out of band and spurious domain of a single frequency WPT system

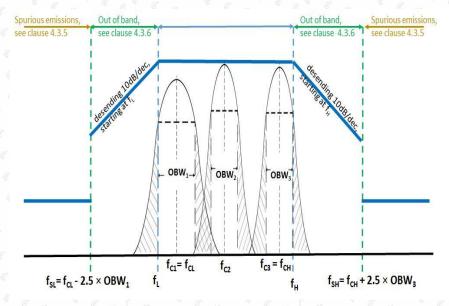


Figure 5: Out of band and spurious domain of a multi - frequency system (during one WPT system cycle time)

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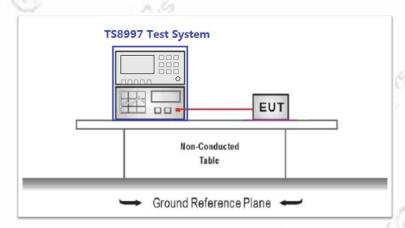
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Table 3: H-field limits

Frequency range [MHz]	H-field strength limit [dBµA/m at 10 m]	Comments
0,019 ≤ f < 0,021	72	20 20 20
0,059 ≤ f < 0,061	69,1 descending 10 dB/dec above 0,059 MHz	See note 1
$0.079 \le f < 0.090$	67,8 descending 10 dB/dec above 0,079 MHz	See note 2
0,100 ≤ f < 0,119	42	
0,119≤f<0,135	66 descending 10 dB/dec above 0,119 MHz	See note 1
$0,135 \le f < 0,140$	42	
0,140 ≤ f < 0,1485	37,7	
$0,1485 \le f < 0,30$	-5	
$6,765 \le f < 6,795$	42	

NOTE 1: Limit is 42 dBμA/m for the following spot frequencies: 60 kHz ± 250 Hz and 129,1 kHz ± 500 Hz.
NOTE 2: At the time of preparation of the present document the feasibility of increased limits for high power wireless power transmission systems to charge vehicles [i.4] was prepared. New specific requirements for such systems (e.g. higher H-field emission limits in the 79 - 90 kHz band) will be reflected within a future revision of the present document.

5.5.2. TEST CONFIGURATION



5.5.3. TEST PROCEDURE

Ι.	. I	he	test	conditions.	
----	-----	----	------	-------------	--

Normal conditions ☐ Extreme conditions

2.Please refer to ETSI EN 303417 (V.1.1.1) Sub-clause 6.2.1 for the measurement method.

5.5.4. TEST MODE:

Continuously transmitting at the lowest ,and the highest channel

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5.5.5. TEST RESULTS

For WPT system

		E Notes		
Frequency range (KHz)	Level (dBμA/m)@3m	Level (dBµA/m)@10m	Limit (dBμA/m)@10m	Result
110-2.5OBW	-26.65	-57.84	41.85	Pass
110-0.5OBW	-7.25	-38.44	42.00	Pass
205+0.5OBW	-8.25	-28.92	-5.00	Pass
205+2.5OBW	-27.68	-58.85	-5.01	Pass

Note:

^{1.} H_{10m} = H_{3m} - C_{3m}

^{2.} The correct factor C3 is equal to or approximately equal to 31.4dB



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5.6. Receiver blocking

5.6.1.LIMIT

The receiver blocking limits in Table 6 shall be fulfilled.

Table 6: Receiver blocking limits

	In-band signal	OOB signal	Remote-band signal
Frequency	Centre frequency (f _c) of the WPT	$f = f_c \pm F$ (see note)	$f = f_c \pm 10 \times F$ (see note)
	system (see clause 4.3.3)		
Signal level field strength at	72 dBμA/m	72 dBµA/m	82 dBµA/m
the EUT			
NOTE: F = OFR see claus	e 4.3.3.		

5.6.2. TEST CONFIGURATION

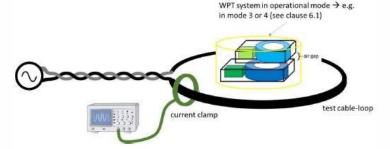
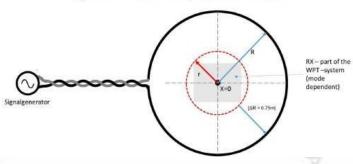


Figure 11: Schematic test set-up for the RX-blocking test



5.6.3. TEST PROCEDURE

1. The test conditions.

2.Please refer to ETSI EN 303417 (V.1.1.1) Sub-clause 6.3.2 for the measurement method

5.6.4. TEST MODE:

Continuously transmitting at the lowest, and the highest channel

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5.6.5. TEST RESULTS

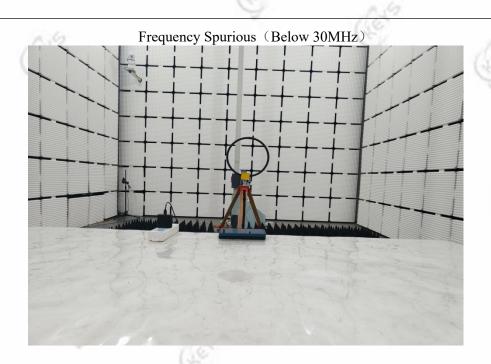
30	Frequency (KHz)	Signal level field strength at the EUT	performance criteria	Result
In-band signal	fc	71 dBμA/m	The EUT can be	(E)
OOB signal	fc+F	70 dBμA/m	used as intended	PASS
OOD Signar	fc-F	γο αβρι (γιι	without	
Remote-	fc+10 × F	80 dBμA/m	degradation of performance.	
band signal	fc-10 × F	σο αρμινιιι	1000	
NOTE: $F = OF$	R, fc=Centre f	requency	(F)	8.6



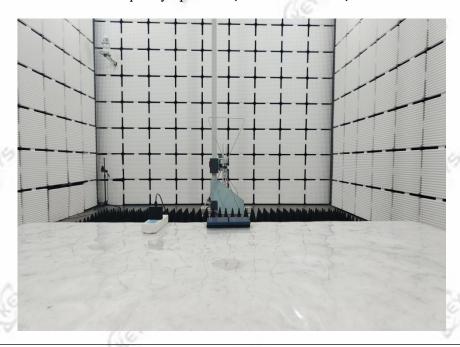


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6. PHOTOGRAPHS OF THE TEST CONFIGURATION



Frequency Spurious (30 MHz to 1 GHz)



*****THE END REPORT*****

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Test Report

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EN IEC 62311: 2020

For

Product: Wireless Charger

Model: MO2651

Report No.: RKEYS250731243

Issued for

Mid Ocean Brands B.V.

Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.

Issued by

Guangdong KEYS Testing Technology Co., Ltd.

Address: Building 1, No.18, Shihuan Road, Dongcheng Subdistrict, Dongguan, Guangdong, China



Guangdong KEYS Testing Technology Co., Ltd.



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1 TEST RESULT CERTIFICATION

Applicant's name : Mid Ocean Brands B.V.

Address : Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan,

Kowloon, Hong Kong.

Manufacture's name : 117486

Address : N/A

Product name : Wireless Charger

Model name : MO2651

Series model : N/A

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Sample Received Date: Jul.31, 2025

Date (s) of performance of tests: Jul.31, 2025 to Aug.05, 2025

Date of Issue: Aug.05, 2025

Test Result: Pass

Prepared by:

Linda Ohen

Linda Chen / Engineer

Approved by:

Bruce Zhang / Manager





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2 General Information

2.1 General Description of E.U.T.

Window Changer	1000
: Wireless Charger	(E)
. MO2651	
: N/A	Be15
: 110-205kHz	
: /	
: /	(E)
Model: MOB/MO2651 Input: DC 9V 2A, 5V 2A Output: DC 5V 1A, 7.5V 1A, 9V 1.1A, 9	V 1.67A
: N/A	5
0.5	(fee)
	: N/A : 110-205kHz : / : / : Model: MOB/MO2651 : Input: DC 9V 2A, 5V 2A Output: DC 5V 1A, 7.5V 1A, 9V 1.1A, 9



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3 RF Exposure Evaluation

3.1 Standard

EN IEC 62311:2020 Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz to 300 GHz)

3.2 Limits

Reference levels for electric, magnetic and electromagnetic fields (0 Hz to 300 GHz, unperturbed rms values)

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (μT)	Equivalent plane wave power density S _{eq} (W/m²)	
0-1 Hz	_	3,2 × 10 ⁴	4 × 10 ⁴	_	
1-8 Hz	10 000	$3,2 \times 10^4/f^2$	$4 \times 10^4/f^2$	 0	
8-25 Hz	10 000	4 000/f	5 000/f		
0,025-0,8 kHz	250/f	4/f	5/f		
0,8-3 kHz	250/f	5	6,25	 0	
3-150 kHz	87	5	6,25		
0,15-1 MHz	87	0,73/f	0,92/f		
1-10 MHz	87/f ^{1/2}	0,73/f	0,92/f	 0	
10-400 MHz	28	0,073	0,092	2	
400-2 000 MHz	1,375 f ^{1/2}	0,0037 f ^{1/2}	0,0046 f ^{1/2}	f/200	
2-300 GHz	61	0,16	0,20	10	

Notes:

- 1. f as indicated in the frequency range column.
- 2. For frequencies between 100 kHz and 10 GHz, Seq, E2, H2, and B2 are to be averaged over any six-minute period.
- 3. For frequencies exceeding 10 GHz, Sec, E2, H2, and B2 are to be averaged over any 68/f1.05 -minute period (f in GHz).
- 4. No E-field value is provided for frequencies < 1 Hz, which are effectively static electric fields. For most people the annoying perception of surface electric charges will not occur at field strengths less than 25 kV/m. Spark discharges causing stress or annoyance should be avoided.</p>

Guangdong KEYS Testing Technology Co., Ltd.





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3.3 Test Result

E-Field:

Frequency	Front(V/m)	Left(vim)	Right(v/m)	Rear(V/m)	Top (V/m)	Limit (V/m)	Result
(kHz)	9	(4)	20			6	
138	72.3	69.6	71.1	68.5	75.6	83	PASS

H-Eield:

Frequency	Front(A/m)	Left(A/m)	Right(A/m)	Rear(A/m)	Top (A/m)	Limit (A/m)	Result
(kHz)		15			(fg		A 69
138	4.3	3.9	4.6	4.2	4.3	5	PASS



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Note: 1. The maximum Power comes from manufacture's declaration.

2. The assess distance is 20cm.

Based on the above assessment, this product comply with the human exposure restrictions.

The Notice in Installation Manual should state as below:

The user must maintain a minimum distance of 20 cm from the device at all time.

**** End of Report ****

