

RADIO TEST REPORT

For

Mid Ocean Brands B.V.

Bamboo power bank with wireless charger

Test Model: MO9662

Prepared for : Mid Ocean Brands B.V.
Address : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan,
Kowloon, Hong Kong

Prepared by : Shenzhen SIT Testing Technology Co., Ltd.
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Date of receipt of test sample : March 31, 2025
Number of tested samples : 1
Serial number : Prototype
Date of Test : March 31, 2025~April 09, 2025
Date of Report : April 09, 2025



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

Wireless power transmission systems, using technologies other than radio frequency beam, in the 19-21kHz, 59-61 kHz, 79-90 kHz, 100-300 kHz, 6765-6795 kHz ranges; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU

Report Reference No. : SIT250328160101ER-2

Date Of Issue : April 09, 2025

Testing Laboratory Name : Shenzhen SIT Testing Technology Co., Ltd.

Address : Room 401, Building A2, The 2nd Industrial Zone of Zhu'ao, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China

Testing Location/ Procedure : Full application of Harmonised standards ☒
Partial application of Harmonised standards ☐
Other standard testing method ☐**Applicant's Name : Mid Ocean Brands B.V.**

Address : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

Test Specification

Standard : ETSI EN 303417 V1.1.1 (2017-09)

Test Report Form No. : SITEMC-1.0

TRF Originator : Shenzhen SIT Testing Technology Co., Ltd.

Master TRF : Dated 2017-09

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Test Item Description. : Bamboo power bank with wireless charger

Trade Mark : N/A

Test Model : MO9662

Ratings : Input: 5V---2A

Output: 5V---2A, Wireless output: 5W

Result : Positive**Compiled by:**

Project Engineer

Supervised by:

Project Supervisor

Approved by:


Technical Director

Radio -- TEST REPORT

Test Report No. : SIT250328160101ER-2April 09, 2025

Date of issue

Test Model..... : MO9662

EUT..... : Bamboo power bank with wireless charger

Applicant..... : Mid Ocean Brands B.V.Address..... : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan,
Kowloon, Hong Kong

Telephone..... : /

Fax..... : /

Manufacturer..... : 114628

Address..... : /

Telephone..... : /

Fax..... : /

Test Result

Positive

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Revision	Issue Date	Revisions	Revised By
00	April 08, 2025	Initial Issue	Kevin Sun

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1.1. Product Description for Equipment Under Test (EUT)

EUT : Bamboo power bank with wireless charger
Test Model : MO9662
Additional Model No. : N/A
Model Declaration : /
Power Supply : Input: 5V---2A
Output: 5V---2A, Wireless output: 5W
Hardware version : /
Operating Frequency : 110~205 KHz, 100KHz for pairing
100.00KHz for pairing;
111.00~117.00KHz, Channel Frequency=111+(K-1)KHz,
K=1, 2, 3.....7;
120.00~139.00KHz, Channel Frequency=120+(K-1) KHz,
K=1, 2, 3.....20;
Channel Frequency : 141.00~148.00KHz, Channel Frequency=141+(K-1)KHz,
K=1, 2, 3.....8;
150.00~204.00KHz, Channel Frequency=150+(K-1)KHz,
K=1, 2, 3.....55
177.50KHz for Low power mode
Channel Number : 1
Modulation Type : GSKF
Antenna Description : Ferrite Antenna, 2 dBi(Max.)
Product class : I

1.2. Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
--	--	--	--	--

1.3. External I/O

I/O Port Description	Quantity	Cable
USB Port	1	N/A

1.4. Objective

The following report of is prepared on behalf of the **Shenzhen Jincheng Weiye Technology Co., Ltd.** In accordance with ETSI EN 303 417 V1.1.1 (2017-09): Wireless power transmission systems, using technologies other than radio frequency beam, in the 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz ranges; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU.

The objective is to determine compliance with ETSI EN 303 417 V1.1.1 (2017-09).

1.5. Test Methodology

All measurements contained in this report were conducted with ETSI EN 303 417 V1.1.1 (2017-09).

1.6. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Radio Frequency	0.9 x 10 ⁻⁴
Total RF Power, Conducted	1.0 dB
RF Power Density, Conducted	1.8 dB
Spurious Emissions, Conducted	1.8 dB
All Emissions, Radiated	3.1 dB
Temperature	0.5°C
Humidity	1 %
DC And Low Frequency Voltages	1 %

1.7. Description Of Test Mode

The EUT has been tested under typical operating condition. No software used to control the EUT for staying in transmitting mode for testing.

***Note: The EUT has been tested under normal condition(Temperature: 25°C & Nominal Voltage: DC 5.0V) in this report , and only recorded the worst test data in the report.

2. SYSTEM TEST CONFIGURATION

2.1. Justification

The system was configured for testing in engineering mode.

2.2. EUT Exercise Software

N/A.

2.3. Special Accessories

N/A.

2.4. Block Diagram/Schematics

Please refer to the related document.

2.5. Equipment Modifications

Shenzhen SIT Testing Technology Co., Ltd. has not done any modification on the EUT.

2.6. Configuration of Test Setup

Please refer to the test setup photo.

3. SUMMARY OF TEST RESULTS

Reference Clause No.	Description Of Test Item	Result
§4.3.2	Permitted range of operating frequencies	Compliant
§4.3.3	Operating frequency range(s) (OFR)	Compliant
§4.3.4	H-field requirements	Compliant
§4.3.5	Transmitter spurious emissions	Compliant
§4.3.6	Transmitter out of band (OOB) emissions	Compliant
§4.3.7	WPT system unwanted conducted emissions	N/A
§4.4.2	Receiver blocking	Compliant

Note: N/A means not applicable

4. PERMITTED RANGE OF OPERATING FREQUENCIES

4.1. Definition

The permitted range of operating frequencies denotes the frequency ranges set out in Table 1. It likewise denotes the respective frequency range for accommodation of the fundamental WPT frequency of the EUT within its operating frequency range (OFR).

Table 1: WPT systems within the permitted frequency bands below 30MHz

	WPT frequency range	Frequency Bands	WPT systems
Transmit and Receive	1	19 kHz to 21 kHz	WPT systems
Transmit and Receive	2	59 kHz to 61 kHz	WPT systems
Transmit and Receive	3	79 kHz to 90 kHz	WPT systems
Transmit and Receive	4	100 kHz to 119 kHz	WPT systems
Transmit and Receive		119 kHz to 140 kHz	WPT systems
Transmit and Receive		140 kHz to 148,5 kHz	WPT systems
Transmit and Receive	5	148.5 kHz to 300 kHz	WPT systems
Transmit and Receive		6765kHz to 6795 kHz	WPT systems

4.2. Limit

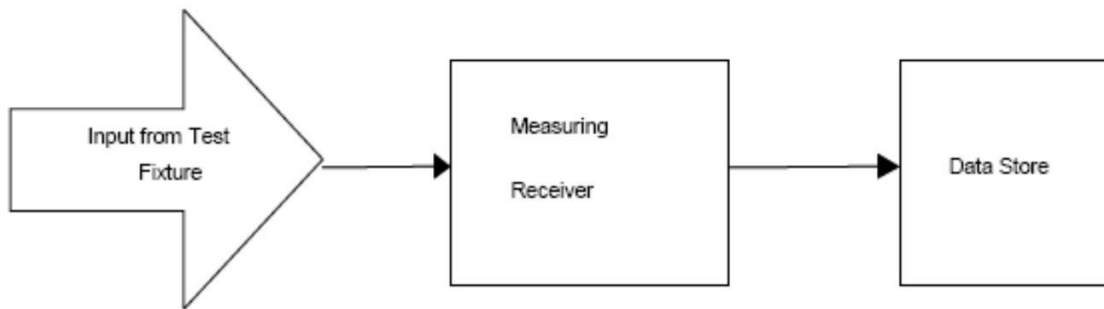
The permitted range of operating frequency range(s) for intentional emissions shall be within 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz.

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) - Performance criteria test (RX test) (clause 4.4) - 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) - TX spurious (clauses 4.3.5, 4.3.6 and 4.3.7) - Performance criteria test (RX test) (clause 4.4) - Wanted performance criteria test (RX test) (clause 4.4)
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.	- Performance criteria test (RX test) (clause 4.4) - Wanted performance criteria test (RX test) (clause 4.4)

4.3. Test Procedure

Please refer to ETSI EN 303 417 V1.1.1 (2017-09) clause 6 for the measurement method.



4.4. Test Result

Pass

Test Result				
Test Temperature (°C)	Test Voltage (Vdc)	Lower Frequency (KHz)	Upper Frequency (KHz)	Limit
25°C	5.0	103.75	112.46	100KHz<f<300KHz
25°C	5.0	115.45	203.12	100KHz<f<300KHz

5. OPERATING FREQUENCY RANGE(S) (OFR)

5.1. Definition

The operating frequency range is the frequency range over which the WPT system is intentionally transmitting (all operational modes, see clause 4.2.3, Table 2).

The operating frequency range(s) of the WPT system are determined by the lowest (f_L) and highest frequency (f_H) as occupied by the power envelope.

The WPT system could have more than one operating frequency range.

For a single frequency systems the OFR is equal to the occupied bandwidth (OBW) of the WPT system.

For multi-frequency systems the OFR is described in figures 2 and 3.

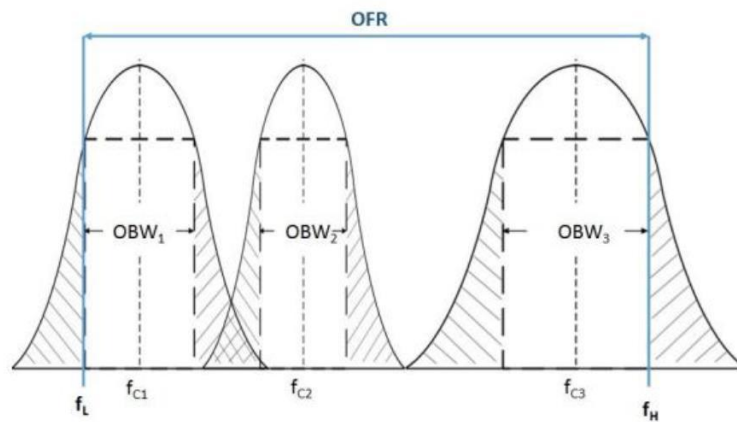


Figure 2: OFR of a multi - frequency WPT system within one frequency range of Table 2 and within one WPT system cycle time

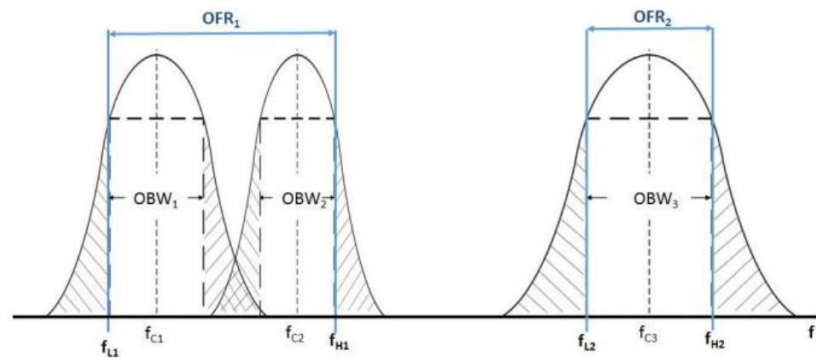


Figure 3: OFR of a multi - frequency WPT system within two frequency ranges of Table 2 and within one WPT system cycle time

5.2. 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.

5.3. Test Procedure

Please refer to ETSI EN 303 417 V1.1.1 (2017-09) clause 6 for the measurement method.

5.4. Test Result

Pass

Test Result				
Test temperature (°C)	Test voltage (Vdc)	Lower Frequency (kHz)	Upper Frequency (kHz)	Limit
25°C	5.0	103.12	126.09	100Hz<f<300Hz
25°C	5.0	120.56	204.51	100Hz<f<300Hz

6. H-FIELD REQUIREMENTS

6.1. Definition

The radiated H-field is defined in the direction of maximum field strength under specified conditions of measurement.

6.2. 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 ERC/REC 70-03 [i.1].

Table 3 H-field limits at 10 m

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

NOTE 1: Limit is 42 dBμA/m for the following spot frequencies: 60 kHz $\pm$ 250 Hz and 129,1 kHz $\pm$ 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.

6.3. Test Procedure

Please refer to ETSI EN 303 417 V1.1.1 (2017-09) clause 6.1&6.2 for the measurement method.

6.4. Test Result

Pass

Frequency(KHz)	Antenna Polarity	Measure Level At 3m (dBuA/m)	Calculated Factor (dB, -C3)	Result At 10m (dBuA/m)	Limit At 10m (dBuA/m)
110.00 (Pairing)	--	9.43	-31.4	-21.97	42
111.00	--	9.68	-31.4	-21.72	42
114.00	--	8.78	-31.4	-22.62	42
117.00	--	9.37	-31.4	-22.03	42
120.00	--	9.62	-31.4	-21.78	66 descending 3 dB/oct above 0.119MHz
129.05	--	9.45	-31.4	-21.95	42
129.15	--	8.76	-31.4	-22.64	42
135.00	--	9.85	-31.4	-21.55	42
139.00	--	12.14	-31.4	-19.26	42
141.00	--	11.03	-31.4	-20.37	37.7
148.00	--	10.79	-31.4	-20.61	37.7
150.00	--	10.35	-31.4	-21.05	-5
177.50(Low power Mode)	--	9.26	-31.4	-22.14	-5
204.00	--	8.57	-31.4	-22.83	-5

***Note:

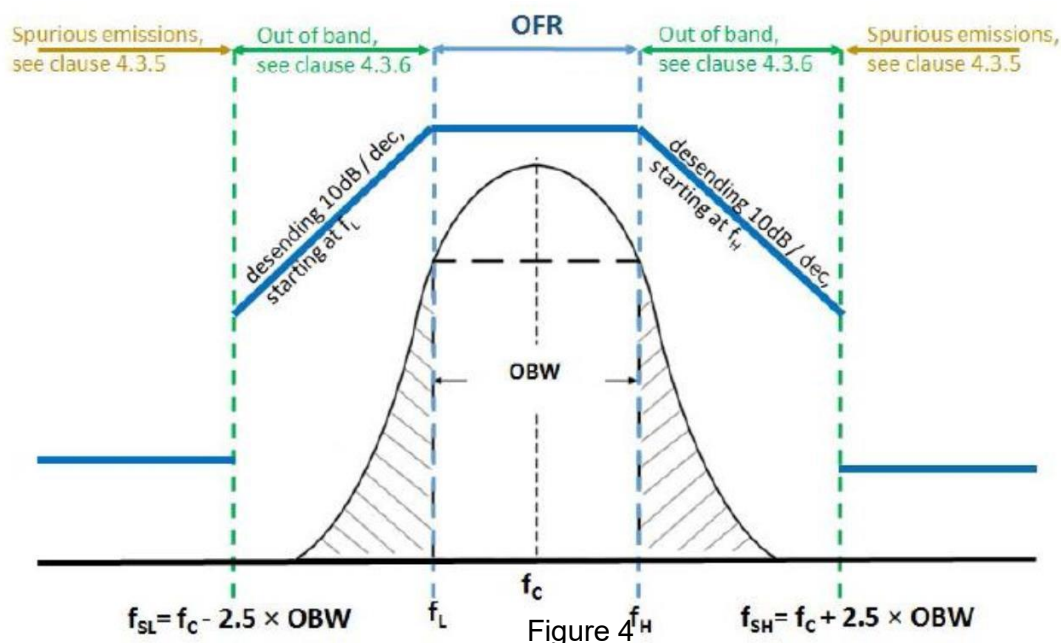
$$H_{10m}=H_{3m}-C_3$$

The correct factor C_3 is equal to or approximately equal to 31.4dB
All test modes have been tested and only record the worst result.

7. TRANSMITTER SPURIOUS EMISSIONS

7.1. Definition

The transmitter spurious emissions for a single frequency system are to be considered in frequency ranges defined in Figure 4 ($f < f_{SL}$ and $f > f_{SH}$).



7.2. Limit

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

Table 4

State (see note)	Frequency $9 \text{ kHz} \leq f < 10 \text{ MHz}$	Frequency $10 \text{ MHz} \leq f < 30 \text{ MHz}$
Operating	27 dB μ A/m at 9 kHz descending 10 dB/dec	-3,5 dB μ A/m
Standby	5,5 dB μ A/m at 9 kHz descending 10 dB/dec	-25 dB μ A/m

NOTE: "Operating" means mode 2, 3 and 4 according to Table 2; "standby" means mode 1 according to Table 2.

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

NOTE: "Operating" means mode 2, 3 and 4 according to Table 2; "standby" means mode 1 according to Table 2

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7.3. Test Setup

Please refer to ETSI EN 303 417 V1.1.1 (2017-09) clause 6.

7.4. Test Procedure

Please refer to ETSI EN 303 417 V1.1.1 (2017-09) clause 6.1&6.2 for the measurement method.

7.5. Test Result

Test Result for Operating Mode (9KHz~30MHz)			
Frequency (MHz)	Measure Level (dBuA/m)	Limit (dBuA/m)	Margin (dB)
--	--	27 dBµA/m at 9 kHz descending 3 dB/oct (9KHz – 10MHz)	--
--	--		--
--	--	-3,5 dBµA/m (10MHz – 30MHz)	--
--	--		--
Test Result for Standby Mode (9KHz~30MHz)			
Frequency (MHz)	Measure Level (dBuA/m)	Limit (dBuA/m)	Margin (dB)
--	--	5.5 dBµA/m at 9 kHz descending 3 dB/oct (9KHz – 10MHz)	--
--	--		--
--	--	-25 dBµA/m (10MHz – 30MHz)	--
--	--		--

Remark:

Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. Measured in frequency range from 9k~10th harmonic or 1GHz(which is greater).

The Test Result for Operating Mode,Tx-150KHz(Above 30MHz)					
Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Pol/Phase	Remark
80.24	-50.36	-36	-14.36	Horizontal	Peak
145.57	-52.14	-36	-16.14	Horizontal	Peak
349.39	-48.35	-36	-12.35	Horizontal	Peak
52.34	-69.36	-54	-15.36	Vertical	Peak
125.56	-52.88	-36	-16.88	Vertical	Peak
459.56	-53.46	-36	-17.46	Vertical	Peak

The Test Result for Operating Mode,Tx-150KHz(Above 30MHz)

Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Pol/Phase	Remark
81.2	-54.28	-36	-18.28	Horizontal	Peak
143.28	-53.37	-36	-17.37	Horizontal	Peak
354.56	-52.83	-36	-16.83	Horizontal	Peak
50.69	-70.41	-54	-16.41	Vertical	Peak
126.63	-58.34	-36	-22.34	Vertical	Peak
457.91	-59.26	-36	-23.26	Vertical	Peak

The Test Result for Operating Mode,Tx-204KHz(Above 30MHz)

Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Pol/Phase	Remark
76.91	-54.36	-36	-18.36	Horizontal	Peak
144.91	-53.38	-36	-17.38	Horizontal	Peak
351.51	-49.67	-36	-13.67	Horizontal	Peak
52.25	-68.29	-54	-14.29	Vertical	Peak
129.08	-49.37	-36	-13.37	Vertical	Peak
455.83	-52.14	-36	-16.14	Vertical	Peak

The Test Result for Operating Mode,Tx-100KHz(Above 30MHz)

Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Pol/Phase	Remark
76.5	-55.37	-36	-19.37	Horizontal	Peak
146.22	-49.38	-36	-13.38	Horizontal	Peak
352.69	-52.74	-36	-16.74	Horizontal	Peak
53.67	-63.35	-54	-9.35	Vertical	Peak
128.92	-56.57	-36	-20.57	Vertical	Peak
460.3	-51.29	-36	-15.29	Vertical	Peak

The Test Result for Operating Mode,Tx-177.5KHz(Above 30MHz)

Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Pol/Phase	Remark
52.59	-63.35	-57	-6.35	Horizontal	Peak
101.63	-64.28	-57	-7.28	Horizontal	Peak
223.49	-73.46	-57	-16.46	Horizontal	Peak
54.36	-70.34	-57	-13.34	Vertical	Peak
114.54	-72.18	-57	-15.18	Vertical	Peak
224.3	-74.39	-57	-17.39	Vertical	Peak

Note:We have test all modes and only record the worst result.

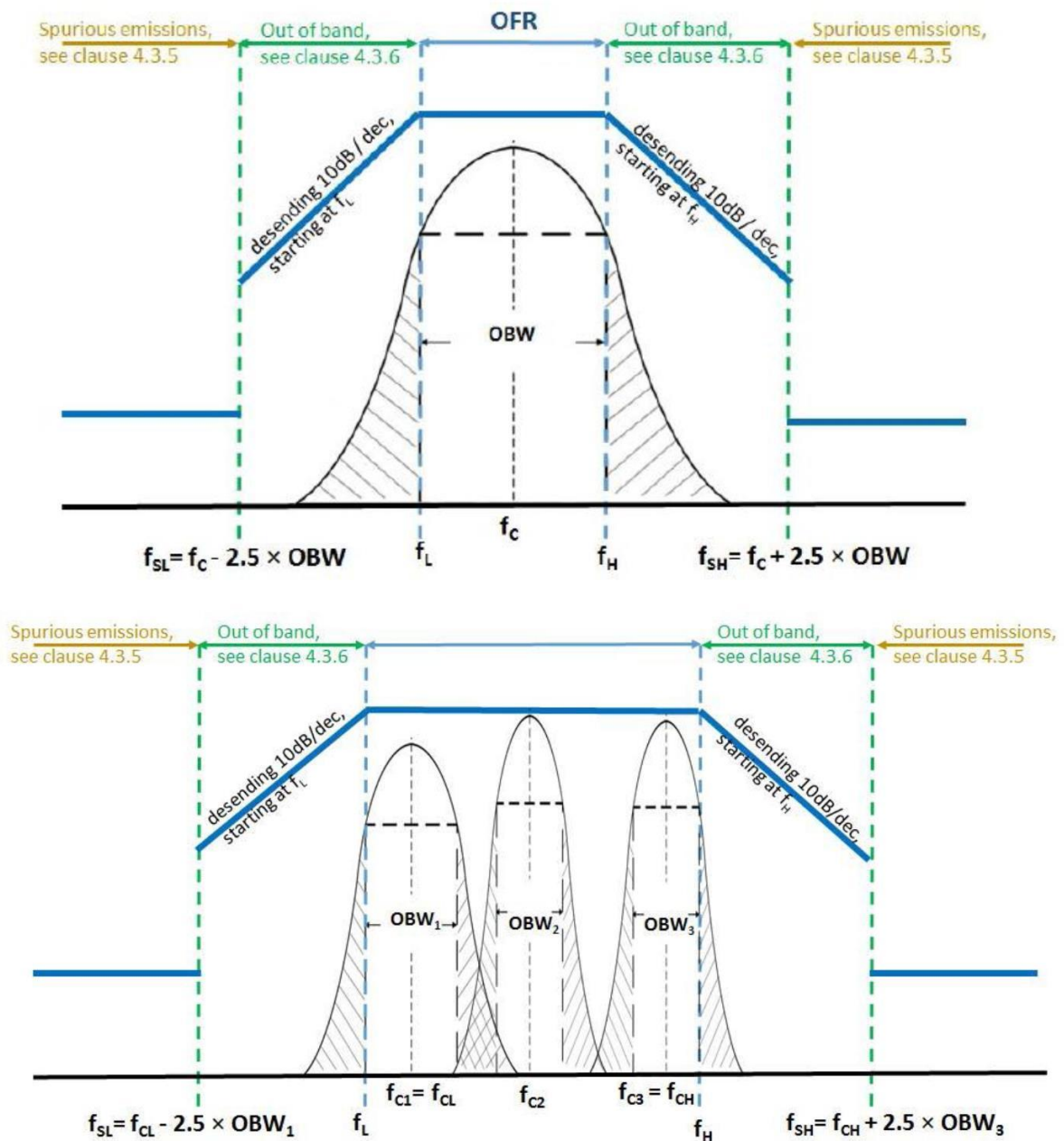
8. TRANSMITTER OUT OF BAND (OOB) EMISSIONS

8.1. Definition

The WPT system out of band emissions are to be considered in frequency ranges defined in Figure 4 and Figure 5 (between f_{SL} and f_L and between f_H and f_{SH}).

8.2. Limit

The OOB limits are visualized in figures 4 and 5; they are descending from the intentional limits from Table 3 at f_H/f_L with 10 dB/decade.



8.3. Test Procedure

Please refer to ETSI EN 303 417 V1.1.1 (2017-09) clause 6.1&6.2 for the measurement method.

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8.4. Test Result**PASS**

Test Mode: MO9662

Frequency (KHz)	Antenna Polarity	Measure Level At 3m	Result At 10m	Limit At 10m
		(dBuA/m)	(dBuA/m)	(dBuA/m)
110.00 (Pairing)	--	7.43	-23.24	32.0
111.00	--	10.42	-20.76	32.0
114.00	--	9.37	-20.97	32.0
117.00	--	10.42	-20.41	32.0
120.00	--	9.55	-21.65	56 descending 3 dB/oct above 0,119 MHz
129.05	--	1.33	-30.06	32.0
129.15	--	1.64	-29.47	32.0
135.00	--	8.41	-22.59	32.0
139.00	--	8.86	-22.57	32.0
141.00	--	7.98	-22.36	27.7
148.00	--	8.42	-21.24	27.7
150.00	--	8.53	-21.79	-15.0
177.50(Low power Mode)	--	2.83	-27.26	-15.0
204.00	--	3.83	-26.32	-15.0

9. WPT SYSTEM UNWANTED CONDUCTED EMISSIONS

9.1. Applicability

This applies to all WPT systems where the cable to the primary coil exceeds a length of 3 m and where the cable is not installed in the ground or any metallic structures.

9.2. Definition

WPT system unwanted conducted emissions are based on the emissions of the unwanted common mode current on the cable between the off board power supply and the primary coil seen as a monopole radiator driven against the power supply.

9.3. Limit

The common mode current (ICM) between 1 MHz and 30 MHz shall not exceed the following limit:

$$\text{ICM} = 47 - 8 \times \log(f) \text{ dB}\mu\text{A}$$

NOTE: f is the frequency in MHz.

9.4. Test Procedure

Please refer to ETSI EN 303 417 V1.1.1 (2017-09) clause 6.2.4 for the measurement method.

9.4. Test Result

NOT Applicable.

Note: The EUT cable to the primary coil is less than a length of 3 m.

10. RECEIVER BLOCKING

10.1. Definition

Blocking is a measure of the capability of the receiver to receive a wanted signal without exceeding a given degradation due to the presence of an unwanted input signal at any frequencies other than those of the receiver spurious responses.

The test shall be performed in the relevant operational modes (see clause 4.2.3).

The wanted performance criteria from clause 4.2.2 shall be used as criterion for the receiver blocking tests.

10.2. Limit

Table 6: Receiver blocking limits

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

10.3. Test Setup

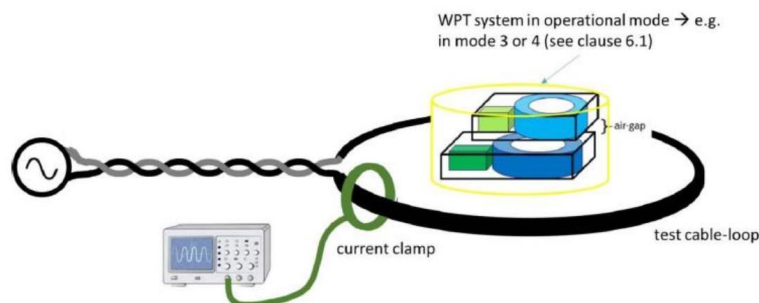


Figure 11: Schematic test set-up for the RX-blocking test

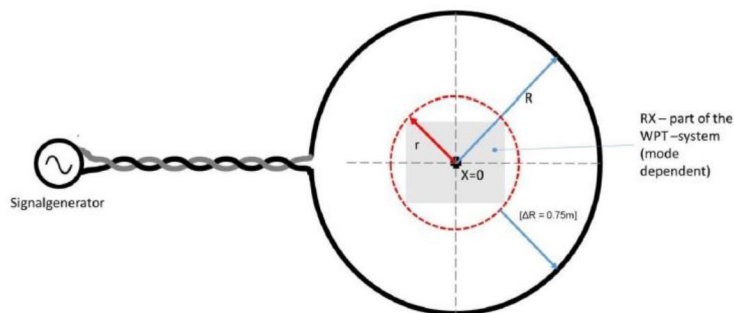


Figure 12: Schematic test set-up for the RX-blocking test

10.4. Test Procedure

- a) The fulfilment of the WPT system performance criterion in all possible operational modes (see clause 4.2.3) shall be tested in presence of the inference signals according to Table 6.
- b) The manufacturer shall declare in which device orientation(s) (worst case) the test shall be performed.
- c) The WPT system shall initially operate without interference according to its specified sensitivity (detecting an specific object in the maximum depth as declared by the manufacturer (see clause 4.2.2 on wanted performance criteria)).
- d) The test setup is visualized in the following Figures 11 and 12.
- e) The tool shall be operated as intended (e.g. some tools might require to be moved across the object, some tool can be used stationary).
- f) The test shall be carried out inside a test chamber according to clauses C.1.1 and C.1.2 in ETSI EN 300 330 [1].
- g) A test loop with a radius r shall be used to create the magnetic field; the test loop shall lie on a non-metallic ground and the minimum distance to metallic objects (e.g. ground plane) shall be 0,75 m.
- h) The EUT shall be placed to the centre of the test-loop (e.g. see Figures 11 and 12).
 - i) The test loop shall be sufficiently large so that the test loop itself does not influence the WPT system; The radius R of the test-loop shall be in minimum $\Delta R = 0,75$ m larger than the maximum dimension r of the EUT.
 - j) (See Figure 12): $R \geq r + \Delta R$.
- k) The maximum H-Field can be calculated from the loop current I (into the test-loop) with the following formula:
- l) The required output current to achieve the required magnetic field from Table 12 at the WPT system shall be generated with a signal generator (unmodulated signal) at the test frequencies from Table 6.
- m) For each test frequency the "reaction" of the device shall be recorded and checked against the performance criterion from clause 4.2.2.
- n)

10.5. Test Result

PASS.

11. LIST OF MEASURING EQUIPMENT

Manufacturer	Description	Model	Serial Number	Cal. Date	Due Date
SIDT FRANKONIA	3m Semi Anechoic Chamber	SAC-3M	03CH03-HY	2024/09/18	2025/09/17
EMI Test Receiver	ROHDE& SCHWARZS	ESCI	101142	2024/09/18	2025/09/17
Agilent	Spectrum Analyzer	E4407B	MY41440292	2024/09/16	2025/09/15
Agilent	MXA Signal Analyzer	N9020A	MY50510140	2024/09/27	2025/09/26
SCHWARZBECK	Loop Antenna	FMZB 1519	/	2024/09/16	2025/09/15
SCHWARZBECK	By-log Antenna	VULB9163	9163-470	2024/09/10	2025/09/09
EMCO	Horn Antenna	3115	6741	2024/09/10	2025/09/09
Jye Bao	RF Cable-R03m	RG142	CB021	2024/09/18	2025/09/17
SUCOFLEX	RF Cable-HIGH	SUCOFLEX 106	03CH03-HY	2024/09/18	2025/09/17

12. TEST SETUP PHOTOGRAPHS

Photo of Radiated Emissions Measurement

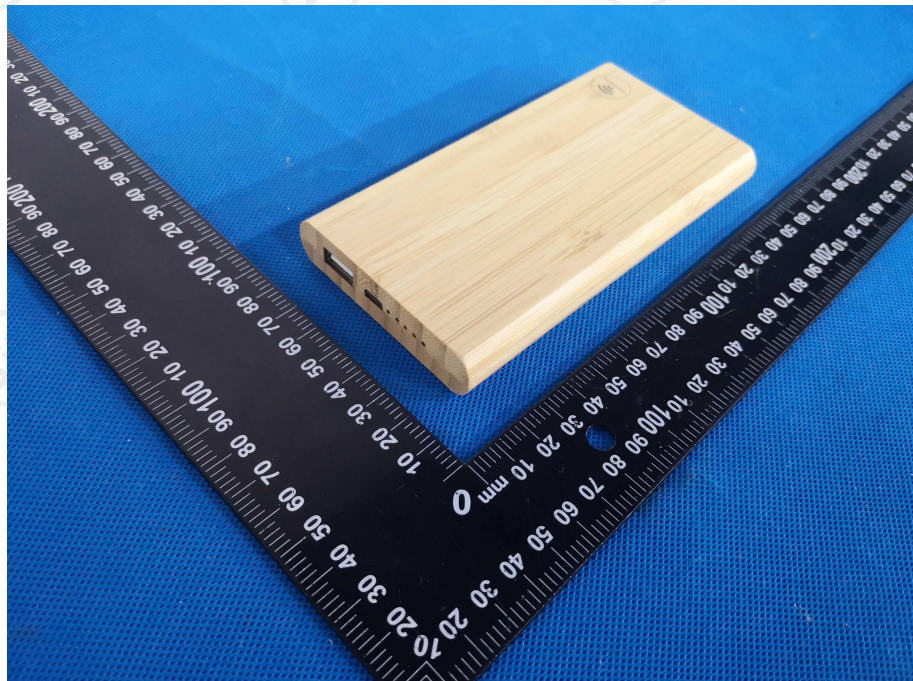


12. EXTERIOR AND INTERIOR PHOTOGRAPHS OF EUT

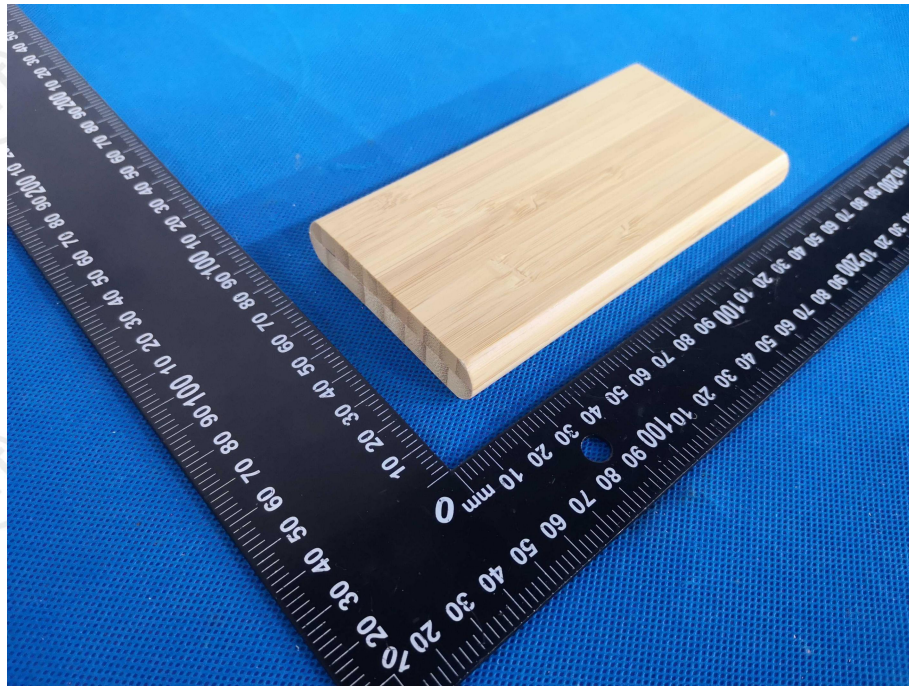
Appearance photograph of EUT



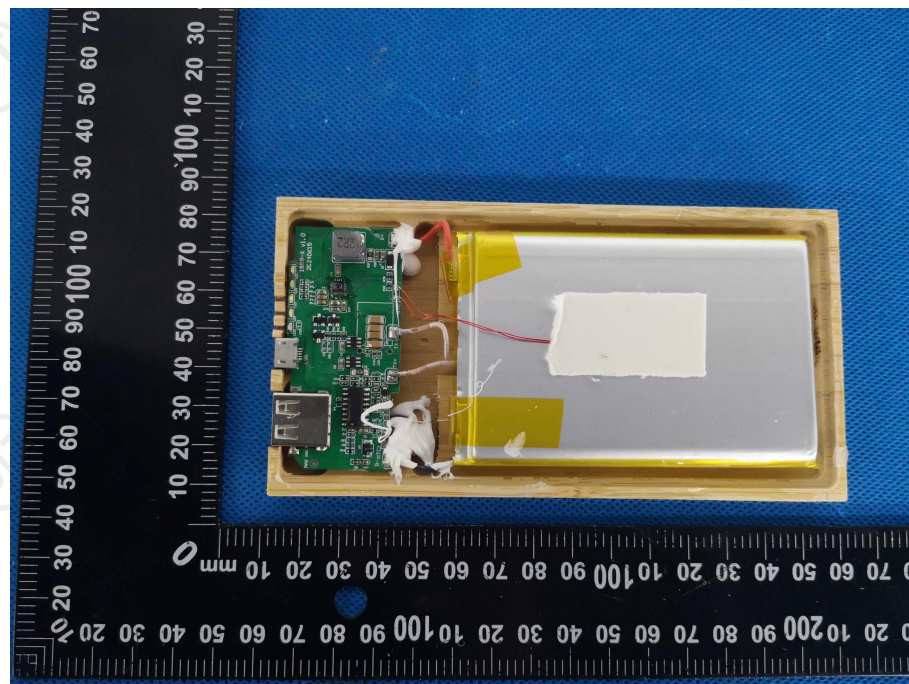
Appearance photograph of EUT



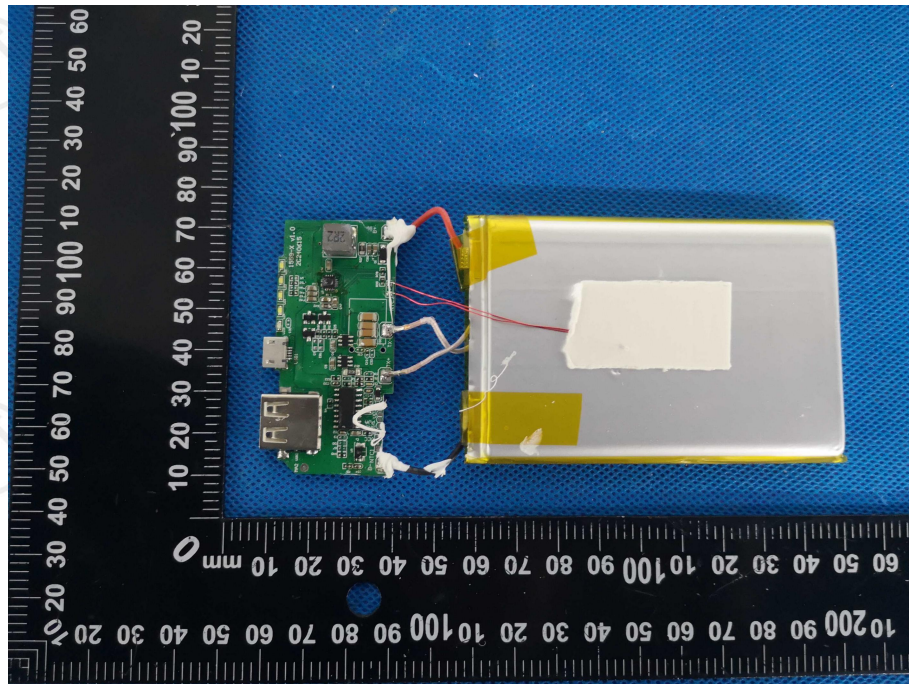
Appearance photograph of EUT



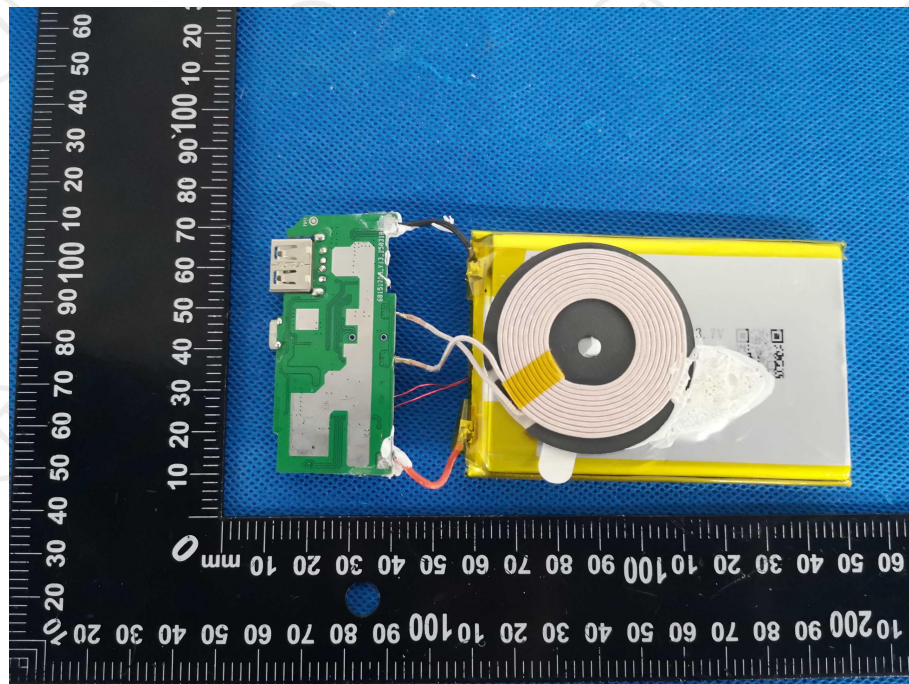
Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



-----THE END OF REPORT-----



Health Test Report

Health Test Report

Prepared for :

Mid Ocean Brands B.V.

**7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong
Kong**

Product: Bamboo power bank with wireless charger

Trade Name: N/A

Model Name: MO9662

Date of Test: March 31, 2025- April 09, 2025

Date of Report: April 09, 2025

Report Number: SIT250328160101HR

Prepared By :

Shenzhen SIT Testing Technology Co., Ltd

**Room 401, Building A2, The 2nd Industrial Zone of Zhu'ao, Gushu, Xixiang,
Bao'an District, Shenzhen**

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E-mail: info@sit-cert.com <http://www.sit-cert.com>

Applicant : Mid Ocean Brands B.V.
 Address : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
 Manufacturer : 114628
 EUT Description : Bamboo power bank with wireless charger
 (A) Model No. : MO9662
 (B) Serial Model : N/A
 (C) Power Supply : Input: 5V $\overline{\text{---}}$ 2A
 Output: 5V $\overline{\text{---}}$ 2A, Wireless output: 5W

Standards..... EN IEC 62311:2020
 EN 50665:2017

This device described above has been tested by SIT LAB, 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.

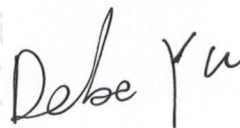
This report shall not be reproduced except in full, without the written approval of SIT LAB, this document may be altered or revised by SIT LAB, personal only, and shall be noted in the revision of the document.

Test Result..... **Pass**

Date of Test:

March 31, 2025 - April 09, 2025

Prepared by:



Project Engineer

Reviewed by:



Project Supervisor

Approved by:



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1. GENERAL INFORMATION

1.2. GENERAL DESCRIPTION OF EUT

Equipment	Bamboo power bank with wireless charger	
Model Name.	MO9662	
Serial Model	N/A	
Model Difference	All types of circuits and RF modules are the same, this report only test mode name: MO9662	
Product Description	The EUT is Bamboo power bank with wireless charger :	
	Bit Rate of Transmitter	N/A
	Antenna Designation:	Ferrite Antenna
	Antenna Gain(Peak)	2 dBi
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual. Note: This radio test report only applies for wireless, For Other transmitters is tested and reported in another radio test report.	
Channel List	Refer to below	
Power	Input: 5V---2A Output: 5V---2A, Wireless output: 5W	
Hardware Version	N/A	
Software Version	N/A	

Note:

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

IEEE 802.11b/g/n HT20/Nht40: Thirteen channels are provided to the EUT.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442		

Test Frequency List

Modulation Type	Test Frequency					
	Lowest		Middle		Highest	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
802.11b	1	2412	7	2442	13	2472
802.11g	1	2412	7	2442	13	2472
802.11n(H20)	1	2412	7	2442	13	2472
802.11n(H40)	3	2422	7	2442	11	2462

2. EN 50665 REQUIREMENT

2.1. GENERAL INFORMATION

The essential requirements of Directive 99/5/ec in the article 3.1(a) and the limits must be taken from Council Recommendation 99/519/EC for General Population or from the ICNIRP Guidelines for Occupational Exposure, EN 50665 Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz – 300 GHz)

2.2. LIMIT

Exposure limits	SAR Limit(W/kg)	
	General population/uncontrolled exposure environment	Occupational/controlled exposure environment
Spatial Average(averaged over the whole body)	0.08	0.4
Spatial peak(averaged over any 1g of tissue)	2.0	10
Spatial peak(hands/wrists/feet/ankles averaged over 10g)	4.0	20.0

3. RESULT

The maximum results of specific absorption rate found during testing for MO9662 are as follows(with expanded uncertainty 6.4%)

Table1

Exposure Configuration	Frequency	Highest Measured SAR 1g(W/Kg)	Highest Measured SAR 10g(W/Kg)
Head (Separation Distance 20cm)	2412 MHz	0.1043	0.1013
	2442 MHz	0.1086	0.1038
	2472 MHz	0.1064	0.1086
Body-worn(Separation Distance 20cm)	2412 MHz	0.1232	0.1237
	2442 MHz	0.1122	0.1342
	2472 MHz	0.1263	0.1316

The maximum sar value is obtained at the case of (table1), and the maximum value is **0.1342** W/Kg(10g) for Head and **0.1038** W/Kg(10g)for body.

Test result : pass

-----The end of the report-----