



RADIO TEST REPORT

For

Mid Ocean Brands B.V.

key finder device in bamboo

Test Model: MO6897

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 LCS Compliance Testing Laboratory Ltd.

Address : Room 101, 201, Building A and Room 301, Building C, Juji

Industrial Park, Yabianxueziwei, Shajing Street, Bao'an

Report No.: LCSA111422204EB

District, Shenzhen, Guangdong, China

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Date of receipt of test sample : November 15, 2022

Number of tested samples : 2

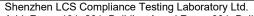
Serial number : Prototype

Date of Test : November 15, 2022 ~ November 23, 2022

Date of Report : November 24, 2022









RADIO TEST REPORT ETSI EN 300 328 V2.2.2 (2019-07)

Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum

Report Reference No.: LCSA111422204EB

Date of Issue..... : November 24, 2022

: Shenzhen LCS Compliance Testing Laboratory Ltd. Testing Laboratory Name.....

: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an Address.....

Report No.: LCSA111422204EB

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 300 328 V2.2.2 (2019-07)

Test Report Form No.: LCSEMC-1.0

TRF Originator.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF..... : Dated 2017-06

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Test Item Description..... : key finder device in bamboo

Trade Mark..... : N/A

Test Model..... : MO6897

Ratings : DC 3V By CR2032 Button Battery

Result: : Positive

Compiled by:

Supervised by:

Approved by:

Rory Huang/ Administrator

Cary Luo/ Technique principal

Gavin Liang/ Manager





RADIO -- TEST REPORT

November 24, 2022 Test Report No.: LCSA111422204EB Date of issue

Test Model..... : MO6897 EUT.....: : key finder device in bamboo 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.....: : /: : / Factory.....: 114628 Address..... Telephone.....:: : /

Test Result:	Positive
-4	

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.





Fax.....:: : /





Revision History

Salar Programme Control of the Contr			AL DOMESTIC
Report Version	Issue Date	Revision Content	Revised By
000	November 24, 2022	Initial Issue	

Report No.: LCSA111422204EB



















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1. GENERAL INFORMATION

1.1. Product Description for Equipment Under Test (EUT)

EUT : key finder device in bamboo

Test Model : MO6897

Power Supply : DC 3V By CR2032 Button Battery

Hardware Version : V1.0

Software Version : V1.0

Bluetooth

Frequency Range : 2402MHz ~ 2480MHz

Channel Number : 40 channels for Bluetooth V4.2 (BT LE)

Channel Spacing : 2MHz for Bluetooth V4.2 (BT LE)

Modulation Type : GFSK for Bluetooth V4.2 (BT LE)

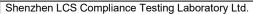
Bluetooth Version : V4.2

Antenna Description : PCB Antenna, 3dBi(Max)





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Product Information

a) The type of modulation used by the equipment:		
⊠ other forms of modulation		
b) In case of FHSS modulation:		
•In case of non-Adaptive Frequency Hopping e	quipment:	
The number of Hopping Frequencies:		
 In case of Adaptive Frequency Hopping Equip 	ment:	
The maximum number of Hopping Frequencies	3 :	
The minimum number of Hopping Frequencies:		
The Dwell Time:		
The Minimum Channel Occupation Time:		
c) Adaptive / non-adaptive equipment:		
☐ non-adaptive Equipment		
oxtimes adaptive Equipment without the possibility to	switch to a non-adapt	ive mode
adaptive Equipment which can also operate	in a non-adaptive mod	e
d) In case of adaptive equipment:		
The Channel Occupancy Time implemented by	the equipment:	
☐ The equipment has implemented an LBT bas	sed DAA mechanism	The second second
 In case of equipment using modulation differ 	rent from FHSS:	1/51
☐ The equipment is Frame Based equipment		100 Ja
☐ The equipment is Load Based equipment		1/*
\square The equipment can switch dynamically betwe	een Frame Based and	Load Based equipment
The CCA time implemented by the equipment:	µs	
The value q as referred to in clause 4.3.2.5.2.2	.2	
oxtimes The equipment has implemented an non-LB	Γ based DAA mechani	sm
☐ The equipment can operate in more than one	adaptive mode	
e) In case of non-adaptive Equipment:		
The maximum RF Output Power (e.i.r.p.): 1.430	dBm	
The maximum (corresponding) Duty Cycle: 100)%	
Equipment with dynamic behaviour, that behaviour	iour is described here.	(e.g. the different
combinations of duty cycle and corresponding p	power levels to be dec	lared):
f) The worst case operational mode for each of the	following tests:	
RF Output Power		
GFSK		
 Power Spectral Density 		
GFSK		
Duty cycle, Tx-Sequence, Tx-gap		



	Dwell time, Minimum	Frequency Occupation	& Hopping Sequence	ce (only for FHSS
	equipment)			
	Hopping Frequency:	Separation (only for FHS	SS equipment)	
	Vanier III			
	 Medium Utilisation 			
	Adaptivity & Receive	r Blocking		
	Occupied Channel B	andwidth	•••••	
	GFSK			
	 Transmitter unwante GFSK 	d emissions in the OOB	domain	
	 Transmitter unwante GFSK 	d emissions in the spuri	ous domain	
	 Receiver spurious er 	missions		
	GFSK	HISSIONS		
g)	The different transmit op	•	,	
	☐ Operating mode 1: S	•	nt	
	Equipment with only		. 4 4	
		ersity antennas but only		
	only 1 antenna is used.		7.057	n a (legacy) mode where
	☐ Operating mode 2: S	-	- Contract	
	· · · · ·	/ Standard throughput /		-
	• .	spatial stream) using C	` •	,
	• • • • • •	spatial stream) using C	•	
	NOTE: Add more lines i	f more channel bandwid	ths are supported.	
	Operating mode 3: S	mart Antenna Systems -	- Multiple Antennas v	with beam forming
	☐ Single spatial stream	/ Standard throughput ((e.g. IEEE 802.11™	[i.3] legacy mode)
	☐ High Throughput (> 1	spatial stream) using C	Occupied Channel Ba	andwidth 1
	☐ High Throughput (> 1	spatial stream) using C	Occupied Channel Ba	andwidth 2
	NOTE: Add more lines i	f more channel bandwic	dths are supported.	
h)) In case of Smart Antenna	a Systems:		
	• The number of Rece	ive chains:		
	The number of Trans	smit chains:		
	☐ symmetrical power di	istribution		
	asymmetrical power	distribution		
	In case of beam forming	g, the maximum beam fo	orming gain:	
	NOTE: Beam forming g	ain does not include the	basic gain of a sing	le antenna.
也很	Oring Lab	在祖德河 Lab		
1	Operating Frequency Rar	nge(s) of the equipment:	Mar Tog Togs	



• Operating Frequency Range 1: 2402 MHz to 2480 MHz

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Operating Frequency Range 2: NOTE: Add more lines if more Frequency		
 j) Occupied Channel Bandwidth(s): Occupied Channel Bandwidth: 1.06 NOTE: Add more lines if more channel bandwidth 		
k) Type of Equipment (stand-alone, combine	ed, plug-in radio device, etc.):	
 Stand-alone Combined Equipment (Equipment when of equipment) Plug-in radio device (Equipment intended) Other 	ded for a variety of host systen	art Hi
I) The extreme operating conditions that apply Operating temperature range: -20° C to 4 Details provided are for the: ⊠ stand-alor □ combined (or host) equipment □ test jig	45° C	
m) The intended combination(s) of the radio		l one or more antenna
assemblies and their corresponding e.i.r. • Antenna Type ☐ PCB Antenna Antenna Gain: 3dBi If applicable, additional beamforming gain ☐ Temporary RF connector provided ☐ No temporary RF connector provided ☐ Dedicated Antennas (equipment with a ☐ Single power level with corresponding ☐ Multiple power settings and correspon Number of different Power Levels:	n (excluding basic antenna gai	in): dB
Power Level 2: dBm Power Level 3: dBm NOTE 1: Add more lines in case the equi NOTE 2: These power levels are conduct n) The nominal voltages of the stand-alone re-	ipment has more power levels eted power levels (at antenna c	connector).
combined (host) equipment or test jig in ca Details provided are for the: ⊠ stand-alor	. •	
☐ combined (or host) equipment☐ test jig	voltage V	LCS Testing







☐ Internal Power ☐ External Power ☑ Battery: 3V ☐ Other: o) Describe the test r	r Supply or AC/DC adapter		
p) The equipment typ Bluetooth®	pe (e.g. Bluetooth®, IEEE 802	2.11™ [i.3], proprietary	, etc.):





1.2. Objective

This Type approval report is prepared on behalf of **Mid Ocean Brands B.V.** in accordance with ETSI EN 300 328 V2.2.2 (2019-07), Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum.

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The objective is to determine compliance with ETSI EN 300 328 V2.2.2 (2019-07).

1.3. Related Submittal(s)/Grant(s)

No Related Submittals.

1.4. Test Methodology

All measurements contained in this report were conducted with ETSI EN 300 328 V2.2.2 (2019-07).

1.5. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

1.6. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate

1.7. External I/O

I/O Port Description	Quantity	Cable
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ob o

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1.8. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

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V. and V.
Uncertainty
5 %
1,5 dB
3 dB
3 dB
6 dB
1 °C
5 %
3 % NS Testing
5 %
5 %

1.9. Test Environment

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	22.4
Humidity (%RH)	25-75	52.3
Barometric pressure (mbar)	860-1060	950-1000

1.10. Description of Test Modes

LCS has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode
Mode 1: Transmit by BLE
Mode 2: Receive by BLE

Note:

- (1) For portable device, radiated spurious emission was verified over X, Y, Z Axis, and shown the worst case on this report.
- (2) Regard to the frequency band operation for systems using Wide Band modulation: the lowest, middle, highest frequency channel for conducted test, and the lowest, highest frequency channel for radiation spurious test.
- (3) The extreme test condition for voltage and temperature were declared by the manufacturer.
- (4) All test modes were tested, but we only recorded the worst case in this report.



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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 LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

2.6. Configuration of Test Setup

Please refer to the test setup photo.



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3. SUMMARY OF TEST RESULT

\times	No	deviations	from	the	test	standards	3
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Deviations from the test standards as below description:

Technical requirements for the equipment using wide band modulations other than FHSS:

Performed Test Item	Normative References	Test Performed	Deviation
RF Output Power & Receiver Category	ETSI EN 300 328 V2.2.2 (2019-07)	Yes	No
Power Spectral Density	ETSI EN 300 328 V2.2.2 (2019-07)	Yes	No
Duty cycle, Tx-Sequence, Tx-gap	ETSI EN 300 328 V2.2.2 (2019-07)	N/A	N/A
Medium Utilisation (MU) factor	ETSI EN 300 328 V2.2.2 (2019-07)	N/A	N/A
Adaptivity	ETSI EN 300 328 V2.2.2 (2019-07)	N/A	N/A
Occupied Channel Bandwidth	ETSI EN 300 328 V2.2.2 (2019-07)	Yes	No
Transmitter unwanted emissions in the out-of-band domain	ETSI EN 300 328 V2.2.2 (2019-07)	Yes	No
Transmitter unwanted emissions in the spurious domain	ETSI EN 300 328 V2.2.2 (2019-07)	Yes	No
Receiver Spurious Emissions	ETSI EN 300 328 V2.2.2 (2019-07)	Yes	Nocs
Receiver Blocking	ETSI EN 300 328 V2.2.2 (2019-07)	Yes	No

Note: The EUT can operate in an adaptive mode, and can't operate in a non-adaptive mode which is stated by the supplier.







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4. TEST RESULTS

4.1. RF Output Power

4.1.1 Limit

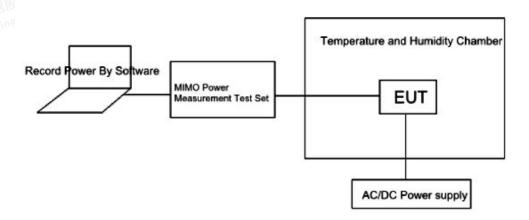
For adaptive equipment using wide band modulations other than FHSS, the maximum RF output power shall be 20 dBm.

The maximum RF output power for non-adaptive equipment shall be declared by the supplier and shall not exceed 20 dBm. For non-adaptive equipment using wide band modulations other than FHSS, the maximum RF output power shall be equal to or less than the value declared by the supplier.

This limit shall apply for any combination of power level and intended antenna assembly.

4.1.2 Test Setup

For Conducted Measurement













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4.1.3 Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2

Step 1:

• The fast power sensor use the following setting: Sample speed 1 MS/s.

Step 2:

• Connect the power sensor to the transmit port, sample the transmit signal and store the raw data. Use these stored samples in all following steps.

Step 3:

• Find the start and stop times of each burst in the stored measurement samples.

Step 4:

• Between the start and stop times of each individual burst calculate the RMS power over the burst. Save these Pburst values, as well as the start and stop times for each burst.

Step 5:

• The highest of all Pburst values (value "A" in dBm) will be used for maximum e.i.r.p. calculations.

Step 6:

- Add the (stated) antenna assembly gain "G" in dBi of the individual antenna.
- If applicable, add the additional beamforming gain "Y" in dB.

The RF Output Power (P) shall be calculated using the formula below: P = A + G + Y

4.1.4 Test Result

Please refer to the Appendix E.1 for BT LE RF Test Data.

4.1.5 Receiver Category

Receiver Category 1: Adaptive equipment with a maximum RF output power greater than 10 dBm e.i.r.p. shall be considered as receiver category 1 equipment.

Receiver Category 2:Non-adaptive equipment with a Medium Utilization (MU) factor greater than 1 % and less than or equal to 10 % or equipment (adaptive or non-adaptive) with a maximum RF output power greater than 0 dBm e.i.r.p. and less than or equal to 10 dBm e.i.r.p. shall be considered as receiver category 2 equipment.

Receiver Category 3: Non-adaptive equipment with a maximum Medium Utilization (MU) factor of 1 % or equipment (adaptive or non-adaptive) with a maximum RF output power of 0 dBm e.i.r.p. shall be considered as receiver category 3 equipment.

As this is an adaptivity device with a maximum power of 1.43dBm, it belongs to receiver category 2.



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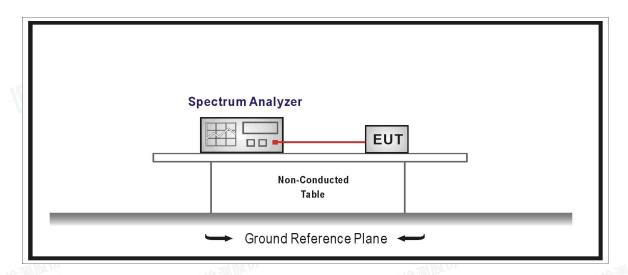


4.2. Power Spectral Density

4.2.1 Limit

For equipment using wide band modulations other than FHSS, the maximum Power Spectral Density is limited to 10dBm per MHz.

4.2.2 Test Setup



4.2.3 Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.3

Step 1:

Connect the UUT to the spectrum analyzer and use the following settings:

2 400 MHz Start Frequency: Stop Frequency: 2 483,5 MHz

 Resolution BW: 10 kHz Video BW: 30 kHz Sweep Points: > 8 350

 Detector: RMS

Trace Mode: Max Hold Sweep time: Auto

For non-continuous signals, wait for the trace to be completed. Save the (trace) data set to a file.

Step 2:

For each frequency point, add up the amplitude (power) values for the different transmit chains and use this as the new data set.

Step 3:

Add up the values for amplitude (power) for all the samples in the file.



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Step 4:

Normalize the individual values for amplitude so that the sum is equal to the RF Output Power (e.i.r.p.).

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Step 5:

Starting from the first sample in the file (lowest frequency), add up the power of the following samples representing a 1 MHz segment and record the results for power and position (i.e. sample #1 to #100). This is the Power Spectral Density (e.i.r.p.) for the first 1 MHz segment which shall be recorded.

Step 6:

Shift the start point of the samples added up in step 5 by 1 sample and repeat the procedure in step 5 (i.e. sample #2 to #101).

Step 7:

Repeat step 6 until the end of the data set and record the radiated Power Spectral Density values for each of the 1 MHz segments. From all the recorded results, the highest value is the maximum Power Spectral Density for the UUT.

4.2.4 Test Result

Please refer to the Appendix E.2 for BT LE RF Test Data.



3)

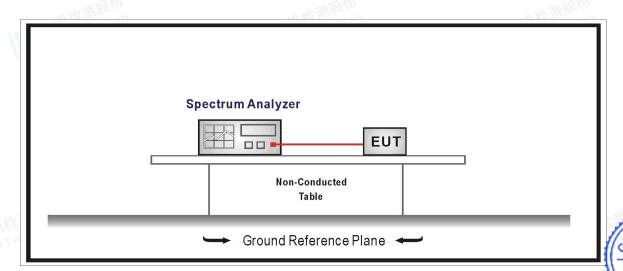


4.3. Duty Cycle, TX-Sequence, TX-Gap

4.3.1 Limit

The Duty Cycle shall be equal to or less than the maximum value declared by the supplier. The maximum Tx-sequence Time and the minimum Tx-gap Time shall be according to the formula below: Maximum Tx-Sequence Time = Minimum Tx-gap Time = M where M is in the range of 3,5 ms to 10 ms.

4.3.2 Test Setup



4.3.3 Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2

4.3.4 Test Result

These requirements apply to non-adaptive frequency hopping equipment or to adaptive frequency hopping equipment operating in a non-adaptive mode.

These requirements do not apply for equipment with a maximum declared RF Output power of less than 10dBm E.I.R.P. or for equipment when operating in a mode where the RF Output power is less than 10dBm E.I.R.P.

No applicable.



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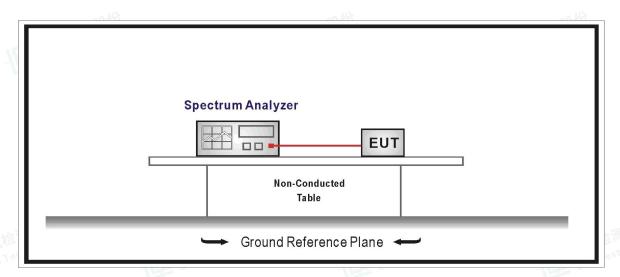
4.4. Medium Utilisation (MU) Factor

4.4.1 Limit

For non-adaptive equipment

The maximum Medium Utilisation factor for non-adaptive Frequency Hopping equipment shall be 10 %.

4.4.2 Test Setup



4.4.3 Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.2

4.4.4 Test Result

This requirement does not apply to adaptive equipment unless operating in a non-adaptive mode.

In addition, this requirement does not apply for equipment with a maximum declared RF Output power level of less than 10dBm E.I.R.P. or for equipment when operating in a mode where the RF Output power is less than 10dBm E.I.R.P.

No applicable.











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4.5. Adaptivity (Adaptive Equipment Using Modulations Other than FHSS)

4.5.1 Limit

Adaptivity Limit
□ Non-LBT based Detect and Avoid
The channel shall remain unavailable for a minimum time equal to 1 s after which
the channel may be considered again as an 'available' channel;
COT ≤ 40 ms;
COT ≤ 60 ms;
Idle Period shall be minimum 5% of COT with a minimum of 100us;
Detection threshold level = -70dBm/MHz + 20 – Pout E.I.R.P (Pout in dBm);
☐ LBT based Detect and Avoid(Frame Based Equipment)
The CCA observation time shall be not less than 20 us;
The CCA time used by the equipment shall be declared by the supplier;
COT = 1-10 ms;
Idle Period = 5% of COT;
Detection threshold level = -70dBm/MHz + 20 – Pout E.I.R.P (Pout in dBm);
☐ LBT based Detect and Avoid(Load Based Equipment)
The CCA observation time shall be not less than 20 us;
The CCA time used by the equipment shall be declared by the supplier;
COT ≤ (13 / 32) * q ms; q = [4~32]; 1.625ms~13ms;
R = number of clear idle slots are randomly [1~q]. Every time an Extended CCA is
required and the 'R' value stored in a counter.
Detection threshold level = -70dBm/MHz + 20 - Pout E.I.R.P (Pout in dBm);
☐ Short Control Signalling Transmissions:
Short Control Signalling Transmissions shall have a maximum duty cycle of 10%
within an observation period of 50ms.











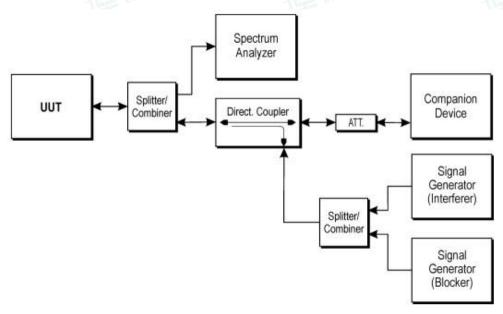
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4.5.2 Test Setup

Conducted measurements



4.5.3 Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.6

4.5.4 Test Result

This requirement does not apply to non-adaptive equipment or adaptive equipment operating in a non-adaptive mode providing the equipment complies with the requirements and/or restrictions applicable to non-adaptive equipment.

In addition, this requirement does not apply for equipment with a maximum declared RF Output power level of less than 10dBm E.I.R.P. or for equipment when operating in a mode where the RF Output power is less than 10dBm E.I.R.P.

No applicable.



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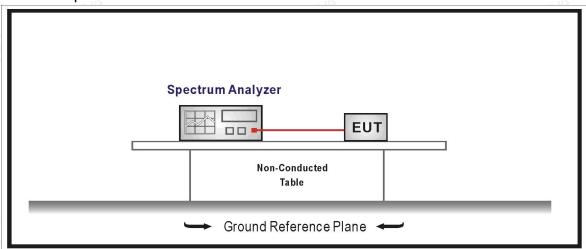
4.6. Occupied Channel Bandwidth

4.6.1 Limit

The Occupied Channel Bandwidth for each hopping frequency shall fall completely within the band given in 2.4GHz to 2.4835GHz.

For non-adaptive Frequency Hopping equipment with E.I.R.P greater than 10dBm, the Occupied Channel Bandwidth for every occupied hopping frequency shall be equal to or less than the value declared by the supplier. This declared value shall not be greater than 5 MHz.

4.6.2 Test Setup



4.6.3 Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.7

Step 1:

Connect the UUT to the spectrum analyser and use the following settings:

- Centre Frequency: The centre frequency of the channel under test
- Resolution BW: ~ 1 % of the span without going below 1 % (We set RBW= 43KHz)
- Video BW: 3 × RBW
- Frequency Span: 2 × Occupied Channel Bandwidth (e.g. 40 MHz for a 20 MHz channel)
- Detector Mode: RMSTrace Mode: Max Hold

Step 2:

Wait until the trace is completed. Find the peak value of the trace and place the analyzer marker on this peak.

Step 3:

Use the 99 % bandwidth function of the spectrum analyzer to measure the Occupied Channel Bandwidth of the UUT. This value shall be recorded.

4.6.4 Test Result

Please refer to the Appendix E.3 for BT LE RF Test Data.



· // // **



4.7. Transmitter Unwanted Emissions in the Out-of-band Domain

4.7.1 Limit

The transmitter unwanted emissions in the out-of-band domain but outside the allocated band, shall not exceed the values provided by the mask in figure 3.

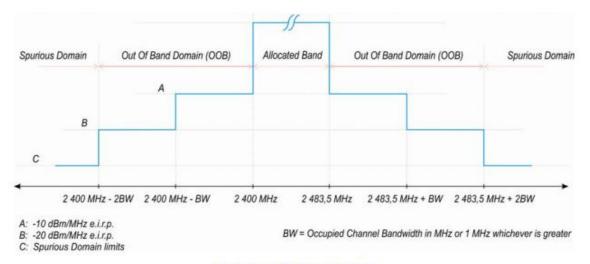
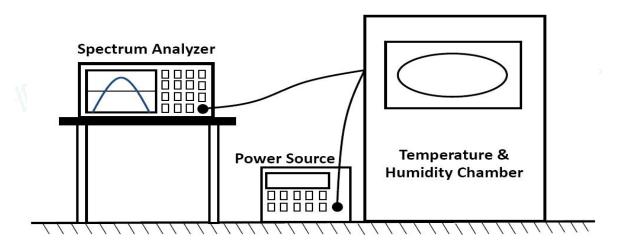


Figure 3: Transmit mask

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

4.7.2 Test Setup

For Conducted Measurement



4.7.3 Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.8







Connect the UUT to the spectrum analyzer and use the following settings:

- Centre Frequency: 2 484 MHz

- Span: 0 Hz

Resolution BW: 1 MHzFilter mode: Channel filter

Video BW: 3 MHz
 Detector Mode: RMS

Trace Mode: Clear / W

- Trace Mode: Clear / Write- Sweep Mode: Continuous- Sweep Points: 5 000

- Trigger Mode: Video trigger

NOTE 1: In case video triggering is not possible, an external trigger source may be used.

- Sweep Time: Suitable to capture one transmission burst

Step 2: (segment 2 483,5 MHz to 2 483,5 MHz + BW)

- Adjust the trigger level to select the transmissions with the highest power level.
- For frequency hopping equipment operating in a normal hopping mode, the different hops will result in signal bursts with different power levels. In this case the burst with the highest power level shall be selected.
- Set a window (start and stop lines) to match with the start and end of the burst and in which the RMS power shall be measured using the Time Domain Power function.
- Select RMS power to be measured within the selected window and note the result which is the RMS power within this 1 MHz segment (2 483,5 MHz to 2 484,5 MHz). Compare this value with the applicable limit provided by the mask.
- Increase the centre frequency in steps of 1 MHz and repeat this measurement for every 1 MHz 4PPR segment within the range 2 483,5 MHz to 2 483,5 MHz + BW. The centre frequency of the last 1 MHz segment shall be set to 2 483,5 MHz + BW 0,5 MHz (which means this may partly overlap with the previous 1 MHz segment).

Step 3: (segment 2 483,5 MHz + BW to 2 483,5 MHz + 2BW)

• Change the centre frequency of the analyzer to 2 484 MHz + BW and perform the measurement for the first 1 MHz segment within range 2 483,5 MHz + BW to 2 483,5 MHz + 2BW. Increase the centre frequency in 1 MHz steps and repeat the measurements to cover this whole range. The centre frequency of the last 1 MHz segment shall be set to 2 483,5 MHz + 2 BW - 0,5 MHz.

Step 4: (segment 2 400 MHz - BW to 2 400 MHz)

• Change the centre frequency of the analyzer to 2 399,5 MHz and perform the measurement for the first 1 MHz segment within range 2 400 MHz - BW to 2 400 MHz Reduce the centre frequency in 1 MHz steps and repeat the measurements to cover this whole range. The centre frequency of the last 1 MHz segment shall be set to 2 400 MHz - 2BW + 0,5 MHz.





Step 5: (segment 2 400 MHz - 2BW to 2 400 MHz - BW)

• Change the centre frequency of the analyzer to 2 399,5 MHz - BW and perform the measurement for the first 1 MHz segment within range 2 400 MHz - 2BW to 2 400 MHz - BW. Reduce the centre frequency in 1 MHz steps and repeat the measurements to cover this whole range. The centre frequency of the last 1 MHz segment shall be set to 2 400 MHz - 2BW + 0,5 MHz.

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Step 6:

- In case of conducted measurements on equipment with a single transmit chain, the declared antenna assembly gain "G" in dBi shall be added to the results for each of the 1 MHz segments and compared with the limits provided by the mask given in figures 1 or 3. If more than one antenna assembly is intended for this power setting, the antenna with the highest gain shall be considered.
- In case of conducted measurements on smart antenna systems (equipment with multiple transmit chains), the measurements need to be repeated for each of the active transmit chains. The declared antenna assembly gain "G" in dBi for a single antenna shall be added to these results. If more than one antenna assembly is intended for this power setting, the antenna with the highest gain shall be considered. Comparison with the applicable limits shall be done using any of the options given below:
- Option 1: the results for each of the transmit chains for the corresponding 1 MHz segments shall be
- added. The additional beamforming gain "Y" in dB shall be added as well and the resulting values
- compared with the limits provided by the mask given in figures 1 or 3.
- Option 2: the limits provided by the mask given in figures 1 or 3 shall be reduced by 10 x log10(Ach) and the additional beamforming gain "Y" in dB. The results for each of the transmit chains shall be
- individually compared with these reduced limits.
- NOTE 2: Ach refers to the number of active transmit chains.
- It shall be recorded whether the equipment complies with the mask provided in figures 1 or 3.

4.7.4 Test Result

Please refer to the Appendix E.4 for BT LE RF Test Data.



0



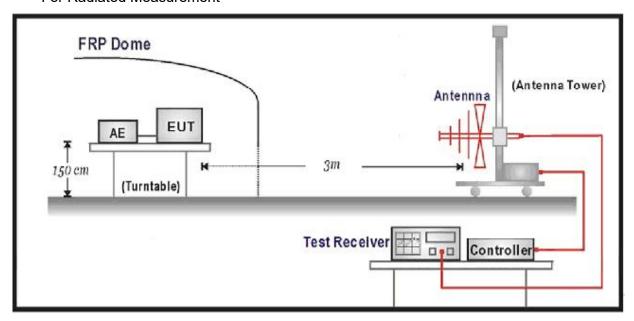
4.8. Transmitter Unwanted Emissions in the Spurious Domain

4.8.1 Limit

Transmitter Limits for Spurious Emissions					
	Maximum power				
Frequency Range	E.R.P. (≤ 1GHz)	Bandwidth			
	E.I.R.P. (> 1GHz)				
30 MHz to 47 MHz	-36 dBm	100 kHz			
47 MHz to 74 MHz	-54 dBm	100 kHz			
74 MHz to 87,5 MHz	-36 dBm	100 kHz			
87,5 MHz to 118 MHz	-54 dBm	100 kHz			
118 MHz to 174 MHz	-36 dBm	100 kHz			
174 MHz to 230 MHz	-54 dBm	100 kHz			
230 MHz to 470 MHz	-36 dBm	100 kHz			
470 MHz to 694 MHz	-54 dBm	100 kHz			
694 MHz to 1 GHz	-36 dBm	100 kHz			
1 GHz to 12,75 GHz	-30 dBm	1 MHz			

4.8.2 Test Setup

For Radiated Measurement





Report No.: LCSA111422204EB

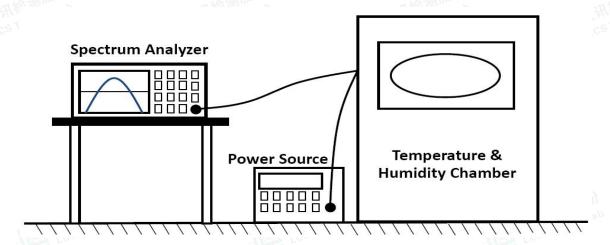
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For Conducted Measurement



4.8.3 Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.9

Step 1:

The sensitivity of the spectrum analyser should be such that the noise floor is at least 12 dB below the limits given in tables 1 or 4.

Step 2:

The emissions over the range 30 MHz to 1 000 MHz shall be identified.

Spectrum analyser settings:

 Resolution bandwidth: 100 kHz Video bandwidth: 300 kHz Detector mode: Peak

• Trace Mode: Max Hold • Sweep Points: ≥ 9 970

NOTE 1: For spectrum analysers not supporting this high number of sweep points, the frequency band may need to be segmented.

 Sweep time: For non continuous transmissions (duty cycle less than 100 %), the sweep time shall be sufficiently long, such that for each 100 kHz frequency step, the measurement time is greater than two transmissions of the UUT. For Frequency Hopping equipment operating in a normal operating (hopping not disabled) mode, the sweep time shall be further increased to capture multiple transmissions on the same hopping frequency in different hopping sequences. Allow the trace to stabilize. Any emissions identified during the sweeps above and that fall within the 6 dB range below the applicable limit or above, shall be individually measured using the procedure in clause 5.3.10.2.1.2 and compared to the limits given in tables 1 or 4.

Step 3:

The emissions over the range 1 GHz to 12,75 GHz shall be identified. Spectrum analyser settings:

Resolution bandwidth: 1 MHz



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Video bandwidth: 3 MHz
Detector mode: Peak
Trace Mode: Max Hold
Sweep Points: ≥ 11 750

NOTE 2: For spectrum analysers not supporting this high number of sweep points, the frequency band may need to be segmented.

• Sweep time: For non continuous transmissions (duty cycle less than 100 %), the sweep time shall be sufficiently long, such that for each 1 MHz frequency step, the measurement time is greater than two transmissions of the UUT.

4.8.4 Test Result

Please refer to the Appendix E.5 for BT LE RF Test Data.







Report No.: LCSA111422204EB













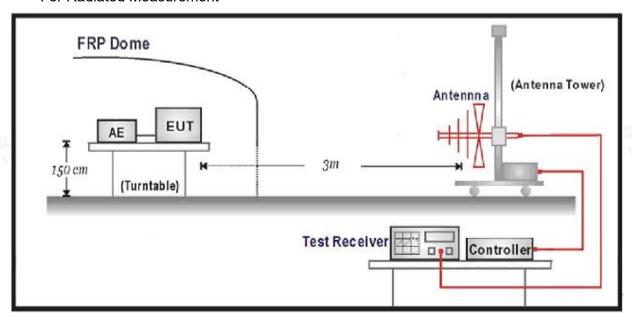
4.9. Receiver Spurious Emissions

4.9.1 Limit

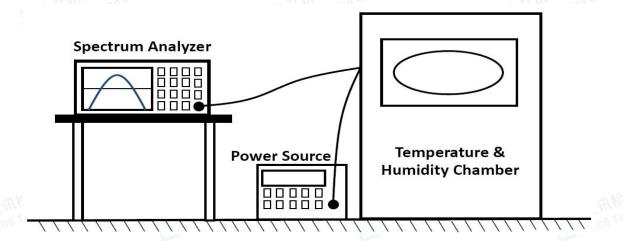
Spurious emissions limits for receivers						
	Maximum power					
Frequency Range	E.R.P. (≤ 1GHz)	Measurement bandwidth				
	E.I.R.P. (> 1GHz)					
30 MHz to 1 GHz	-57 dBm	100 kHz				
1 GHz to 12.75 GHz	-47 dBm	1 MHz				
.9.2 Test Setup	121 ros Lesting re-	TST Les Testing La				

4.9.2 Test Setup

For Radiated Measurement



For Conducted Measurement





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4.9.3 Test Procedure

Refer to ETSI EN 300 328 V2.2.2 (2019-07) Clause 5.4.10

Step 1:

The sensitivity of the spectrum analyzer should be such that the noise floor is at least 12 dB below the limits given in tables 2 or 5.

Step 2:

The emissions over the range 30 MHz to 1 000 MHz shall be identified.

Spectrum analyzer settings:

Resolution bandwidth: 100 kHz

Video bandwidth: 300 kHz

Detector mode: Peak

Trace Mode: Max Hold

Sweep Points: ≥ 9 970

· Sweep time: Auto

Allow the trace to stabilize. Any emissions identified during the sweeps above and that fall within the 6 dB range below the applicable limit or above, shall be individually measured using the procedure in clause 5.3.11.2.1.2 and compared to the limits given in tables 2 or 5.

Step 3:

The emissions over the range 1 GHz to 12,75 GHz shall be identified.

Spectrum analyzer settings:

Resolution bandwidth: 1 MHz

Video bandwidth: 3 MHz

Detector mode: Peak

Trace Mode: Max Hold

• Sweep Points: ≥ 11 750

Sweep time: Auto

Allow the trace to stabilize. Any emissions identified during the sweeps above that fall within the 6 dB range below the applicable limit or above, shall be individually measured using the procedure in clause 5.3.11.2.1.2 and compared to the limits given in tables 2 or 5. Frequency Hopping equipment may generate a block (or several blocks) of spurious emissions anywhere within the spurious domain. If this is the case, only the highest peak of each block of emissions shall be measured using the procedure in clause 5.3.11.2.1.2.

Step 4:

 In case of conducted measurements on smart antenna systems (equipment with multiple receive chains), the steps 2 and 3 need to be repeated for each of the active receive chains (Ach). The limits used to identify emissions during this pre-scan need to be reduced with 10 × log10 (Ach) (number of active receive chains).

4.9.4 Test Result

Please refer to the Appendix E.6 for BT LE RF Test Data.



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4.10. Receiver Blocking

4.10.1 Limit

Equipment shall comply with the requirements defined in clause 4.3.1.12.4

Table 6: Receiver Blocking parameters for Receiver Category 1 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 4)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 4)	Type of blocking signal	
(-133 dBm + 10 × log ₁₀ (OCBW)) or -68 dBm whichever is less (see note 2)	2 380 2 504			
(-139 dBm + 10 × log ₁₀ (OCBW)) or -74 dBm whichever is less (see note 3)	2 300 2 330 2 360 2 524 2 584 2 674	-34	CW	

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 26 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 20 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 4: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2

Table 7: Receiver Blocking parameters receiver Category 2 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 3)	Type of blocking signal
(-139 dBm + 10 × log ₁₀ (OCBW) + 10 dB) or (-74 dBm + 10 dB) whichever is less (see note 2)	2 380 2 504 2 300 2 584	-34	CW

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 26 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.



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Table 8: Receiver Blocking parameters receiver Category 3 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 3)	Type of blocking signal
(-139 dBm + 10 × log ₁₀ (OCBW) + 20 dB) or (-74 dBm + 20 dB) whichever is less (see note 2)	2 380 2 504 2 300 2 584	-34	CW

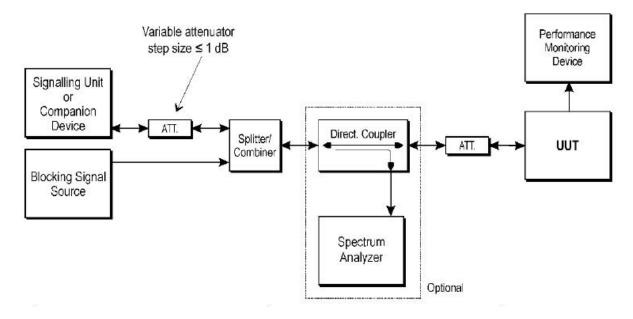
NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative the test may be performed using a wanted signal up to P_{min} + 30 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

4.10.2 Test Setup

Conducted measurements



4.10.3 Test Procedure

Step 1:

- For non-frequency hopping equipment, the UUT shall be set to the lowest operating channel. Step 2:
- The blocking signal generator is set to the first frequency as defined in the appropriate table corresponding to the receiver category and type of equipment.

Step 3:

• With the blocking signal generator switched off, a communication link is established between the UUT and the associated companion device using the test setup shown in figure 6. The



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attenuation of the variable attenuator shall be increased in 1 dB steps to a value at which the minimum performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 is still met.

The resulting level for the wanted signal at the input of the UUT is Pmin.

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- This signal level (Pmin) is increased by the value provided in the table corresponding to the receiver category and type of equipment. Step 4:
- The blocking signal at the UUT is set to the level provided in the table corresponding to the receiver category and type of equipment. It shall be verified and recorded in the test report that the performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 is met. Step 5:
- Repeat step 4 for each remaining combination of frequency and level for the blocking signal as provided in the table corresponding to the receiver category and type of equipment.

 Step 6:
- For non-frequency hopping equipment, repeat step 2 to step 5 with the UUT operating at the highest operating channel.

4.10.4 Test Result

Please refer to the Appendix E.7 for BT LE RF Test Data.







5. LIST OF MEASURING EQUIPMENT

	Test. 1851				1 To 1 C 1 C 5 1	
Ite m	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	X-series USB Peak and Average Power Sensor Agilent	Agilent	U2021XA	MY54080022	2022-10-21	2023-10-20
2	4 CH. Simultaneous Sampling 14 Bits 2MS/s	Agilent	U2531A	MY54080016	2022-10-21	2023-10-20
3	Test Software	Ascentest	AT890-SW	20160630	N/A	N/A
4	RF Control Unit	Ascentest	AT890-RFB	N/A	2022-06-16	2023-06-15
5	MXA Signal Analyzer	Agilent	N9020A	MY49061051	2022-06-16	2023-06-15
6	DC Power Supply	Agilent	E3642A	N/A	2022-10-29	2023-10-28
7	MXG Vector Signal Generator	Agilent	N5182A	MY47071151	2022-06-16	2023-06-15
8	ESG Vector Signal Generator	Agilent	E4438C	MY49072627(3G)	2022-06-16	2023-06-15
9	PSG Analog Signal Generator	Agilent	E8257D	MY4520521	2022-06-16	2023-06-15
10	Temperature & Humidity Chamber	GUANGZHOU GOGNWEN	GDS-100	70932	2022-10-06	2023-10-05
11	EMI Test Software	Farad	EZ	1	N/A	N/A
12	3m Full Anechoic Chamber	MRDIANZI	FAC-3M	MR009	2021-09-25	2024-09-24
13	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
14	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2021-08-29	2024-08-28
15	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-12	2024-09-11
16	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-05	2024-09-04
17	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2021-08-29	2024-08-28
18	Broadband Preamplifier	SCHWARZBECK	BBV9719	9719-025	2022-06-16	2023-06-15
19	EMI Test Receiver	R&S	ESR7	101181	2022-06-16	2023-06-15
20	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2022-10-29	2023-10-28
21	Broadband Preamplifier	1	BP-01M18G	P190501	2022-06-16	2023-06-15
22	WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW 500	103818	2022-06-16	2023-06-15
23	6dB Attenuator	/	100W/6dB	1172040	2022-06-16	2023-06-15
24	3dB Attenuator		2N-3dB	1	2022-10-29	2023-10-28







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6. PHOTOGRAPHS OF TEST SETUP

Please refer to separated files Appendix D for Photographs of Test Setup_RF.

7. PHOTOGRAPHS OF THE EUT

Please refer to separated files Appendix C for Photographs of The EUT.

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















HEALTH TEST REPORT

For

Mid Ocean Brands B.V.

key finder device in bamboo

Test Model: MO6897

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 LCS Compliance Testing Laboratory Ltd.

Address : Room 101, 201, Building A and Room 301, Building C, Juji

Industrial Park, Yabianxueziwei, Shajing Street, Bao'an

District, Shenzhen, Guangdong, China

Tel : (+86)755-82591330 Fax : (+86)755-82591332 Web : www.LCS-cert.com

Mail : webmaster@LCS-cert.com

Date of receipt of test sample: November 15, 2022

Number of tested samples : 2

Serial number : Prototype

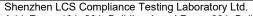
Date of Test : November 15, 2022 ~ November 23, 2022

Date of Report : November 24, 2022



Report No.: LCSA111422204EC







HEALTH TEST REPORT EN 62479: 2010 & EN 50663: 2017

Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)

Report Reference No. : LCSA111422204EC

Date of Issue.....: November 24, 2022

Testing Laboratory Name.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Address...... Room 101, 201, Building A and Room 301, Building C, Juji

Industrial Park, Yabianxueziwei, Shajing Street, Bao'an

Report No.: LCSA111422204EC

District, Shenzhen, Guangdong, China

Testing Location/ Procedure.... : Partial application of Harmonised standards

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..... EN 62479: 2010

EN 50663: 2017

Test Report Form No.: LCSEMC-1.0

TRF Originator...... : Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF..... : Dated 2011-03

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Test Item Description.....: : key finder device in bamboo

Trade Mark.....: N/A

Test Model.....: MO6897

Ratings: DC 3V By CR2032 Button Battery

Result : Positive

Compiled by:

Supervised by:

Approved by:

Rory Awang

Rory Huang/ Administrator

Cary Luo/ Technique principal

Gavin Liang/ Manager



Shenzhen LCS Compliance Testing Laboratory Ltd.



HEALTH --TEST REPORT

November 24, 2022 Test Report No.: LCSA111422204EC

Date of issue

Report No.: LCSA111422204EC

Test Model	: MO6897		
EUT	: key finder dev	vice in bamboo	
Applicant	: Mid Ocean B	rands B.V.	and the same of th
Address	: 7/F., Kings To Kowloon, Hor	ower,111 King Lam Street, Che ng Kong	ung Sha Wan,
Telephone	: /		
Fax	: /		
Manufacturer	: 114628		
Address	: 1		
Telephone	: /		
Fax	: / 测版份		
Factory	°. 11/628	V/54 Lcs 107	Man cs 1°

Test Result

Address..... : / Telephone.....:: : /

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.







Positive





Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com Scan code to check authenticity



Revision History

Revision History						
Report Version	Issue Date	Revision Content	Revised By			
000	November 24, 2022	Initial Issue	1			

Report No.: LCSA111422204EC



















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1. GENERAL INFORMATION

1.1. Product Description for Equipment Under Test (EUT)

EUT : key finder device in bamboo

Test Model : MO6897

Power Supply : DC 3V By CR2032 Button Battery

Hardware Version : V1.0

Software Version : V1.0

Bluetooth

Frequency Range : 2402MHz ~ 2480MHz

Channel Number : 40 channels for Bluetooth V4.2 (BT LE)

Channel Spacing : 2MHz for Bluetooth V4.2 (BT LE)

Modulation Type : GFSK for Bluetooth V4.2 (BT LE)

Bluetooth Version : V4.2

Antenna Description: PCB Antenna, 3dBi(Max)









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1.2. Objective

According to its specifications, the EUT must comply with the requirements of the following standards:

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EN 62479: 2010 – Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)

EN 50663: 2017 – Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz)

1.3. Test Methodology

All measurements contained in this report were conducted with EN 62479: 2010 and EN 50663: 2017.

1.4. Facilities

All measurement facilities used to collect the measurement data are located at Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 32.

1.5. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate

1.6. External I/O Cable

I/O Port Description	Quantity	Cable
10 to	Towns (A)	





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1.7. Equipment

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn.

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Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements. Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

1.8. Laboratory Accreditations And Listings

Site

Description

EMC Lab. : NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Name of Firm : Shenzhen LCS Compliance Testing Laboratory Ltd.

Site Location : Room 101, 201, Building A and Room 301, Building C, Juji Industrial

Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen,

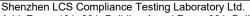
Guangdong, China

1.9. Measurement Uncertainty

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 %









2. HUMAN EXPOSURE TO THE ELECTROMAGNETIC FIELDS

2.1 Test Methodology

2.1.1.General description of applied standards

According to its specifications, the EUT must comply with the requirements of the following standards:

EN 62479- Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)

EN 50663- Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz).

2.1.2.Description of test modes

The EUT has been tested under its typical operating condition. Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

2.2 Test limit

If the average power emitted by apparatus operating in the frequency range 10 MHz – 300GH is less than or equal to 20 mW and the transmitting peak power is less than 20 W then the apparatus is deemed to comply with the basic restrictions without testing.

2.3 Test Results

Since Max. output power for Bluetooth is 1.39mW (1.43dBm According to radio test report LCSA111422204EB) less than 20mW specified in EN 62479 and EN 50663. This unit will not generate the harmful EM emission above the reference level as specified in EC Council Recommendation (1999/519/EC).

The unit complies with the EN 62479 and EN 50663 for RF exposure requirement.

No non-compliance noted.

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



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