
RF Test Report

Report No.: AGC12440231102ER02

PRODUCT DESIGNATION : WIRELESS MOUSE
BRAND NAME : N/A
MODEL NAME : M02222
APPLICANT : Mid Ocean Brands B.V.
DATE OF ISSUE : Nov. 27, 2023
STANDARD(S) : ETSI EN 300 440 V2.2.1 (2018-07)
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Attestation of Global Compliance(Shenzhen)Co., Ltd
Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd
Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: <http://www.agccert.com/>



Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Nov. 27, 2023	Valid	Initial Release

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1. TEST REPORT CERTIFICATION

Applicant	Mid Ocean Brands B.V.
Address	7/F., King Tower, 111King Lam Street, Cheung ShaWan, Kowloon, HongKong.
Manufacturer	Mid Ocean Brands B.V.
Address	7/F., King Tower, 111King Lam Street, Cheung ShaWan, Kowloon, HongKong.
Factory	Mid Ocean Brands B.V.
Address	7/F., King Tower, 111King Lam Street, Cheung ShaWan, Kowloon, HongKong.
Product Designation	WIRELESS MOUSE
Brand Name	N/A
Test Model	MO2222
Series Model(s)	N/A
Difference Description	N/A
Date of receipt of test item	Nov. 20, 2023
Date of test	Nov. 20, 2023 to Nov. 27, 2023
Deviation	None
Test Result	Pass
Condition of Test Sample	Normal

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By	 <hr style="border: 0.5px solid black;"/> Cici Li (Project Engineer)	Nov. 27, 2023
Reviewed By	 <hr style="border: 0.5px solid black;"/> Calvin Liu (Reviewer)	Nov. 27, 2023
Approved By	 <hr style="border: 0.5px solid black;"/> Max Zhang Authorized Officer	Nov. 27, 2023

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2. GENERAL INFORMATION

2.1. DESCRIPTION OF EUT

Note: the following data is based on the information by the applicant.

Operating Frequency	2402MHz to 2480MHz
Support Channels	79 Channels
Modulation	GFSK
Hardware Version	VER1.0
Software Version	VER1.0
Antenna Type	PCB Antenna
Antenna Gain	-0.55dBi
Receiver Category	2
Power Supply	Mouse: DC 5V by adapter or DC 3.7V by battery Dongle: DC 5V by PC

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Channel list:

Channel	Frequency (GHz)	Channel	Frequency (GHz)
01	2.402	42	2.443
02	2.403	43	2.444
03	2.404	44	2.445
04	2.405	45	2.446
05	2.406	46	2.447
06	2.407	47	2.448
07	2.408	48	2.449
08	2.409	49	2.450
09	2.410	50	2.451
10	2.411	51	2.452
11	2.412	52	2.453
12	2.413	53	2.454
13	2.414	54	2.455
14	2.415	55	2.456
15	2.416	56	2.457
16	2.417	57	2.458
17	2.418	58	2.459
18	2.419	59	2.460
19	2.420	60	2.461
20	2.421	61	2.462
21	2.422	62	2.463
22	2.423	63	2.464
23	2.424	64	2.465
24	2.420	65	2.466
25	2.426	66	2.467
26	2.427	67	2.468
27	2.428	68	2.469
28	2.429	69	2.470
29	2.430	70	2.471
30	2.431	71	2.472
31	2.432	72	2.473
32	2.433	73	2.474
33	2.434	74	2.475
34	2.435	75	2.476
35	2.436	76	2.477
36	2.437	77	2.478
37	2.438	78	2.479
38	2.439	79	2.480
39	2.440		
40	2.441		
41	2.442		

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2.2. TEST STANDARDS AND RESULTS

The EUT has been tested according to ETSI EN 300 440 V2.2.1.

ETSI EN 300 440 V2.2.1 (2018-07)	Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Harmonised Standard for access to radio spectrum
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2.3. TEST ITEMS AND THE RESULTS

No.	Basic Standard	Test Type	Result
1	ETSI EN 300 440 4.2.2	Equivalent isotropically radiated power (e.i.r.p.)	Pass
2	ETSI EN 300 440 4.2.3	Permitted range of operating frequencies	Pass
3	ETSI EN 300 440 4.2.4	Unwanted emissions in the spurious domain	Pass
4	ETSI EN 300 440 4.2.5	Duty cycle	Pass
5	ETSI EN 300 440 4.2.6	Additional requirements for FHSS equipment	N/A
6	ETSI EN 300 440 4.3.3	Adjacent channel selectivity	N/A
7	ETSI EN 300 440 4.3.4	Blocking or desensitization	Pass
8	ETSI EN 300 440 4.3.5	Spurious emissions	Pass

2.4. ENVIRONMENTAL CONDITIONS

- Temperature: 15-35°C
- Relative Humidity: 30-60%
- Atmospheric pressure: 86-106kPa

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3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in Measurement” (GUM) published by ISO.

- Uncertainty of Radio Frequency, $U_c = \pm 1 \times 10^{-7}$
- Uncertainty of total RF power, conducted, $U_c = \pm 0.8 \text{ dB}$
- Uncertainty of RF power density, conducted, $U_c = \pm 2.6 \text{ dB}$
- Uncertainty of spurious emissions, conducted, $U_c = \pm 2.7 \text{ dB}$
- Uncertainty of spurious emissions, radiated, $U_c = \pm 5.4 \text{ dB}$
- Uncertainty of Temperature: $\pm 0.5^\circ \text{C}$
- Uncertainty of Humidity: $\pm 1 \%$
- Uncertainty of DC and low frequency voltages: $\pm 2\%$

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4. IDENTIFICATION OF THE RESPONSIBLE TESTING LOCATION

Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

LIST OF EQUIPMENTS USED

Description	Manufacturer	Model No.	S/N	Cal. Date	Cal. Due
MXG X-Series Vector Signal Generator	Aglient	N5182B	MY53050647	Mar. 03, 2023	Mar. 02, 2024
RF Analog Signal Generator	Aglient	N5171B	MY53050474	Jun. 01, 2023	May 31, 2024
EXA Signal Analyzer	Agilent	N9010A	MY53470504	Jun. 01, 2023	May 31, 2024
Signal Analyzer	Aglient	N9020A	MY52090123	Jun. 03, 2023	Jun. 02, 2024
USB Wideband Power Sensor	Aglient	U2021XA	MY54110007	Jun. 03, 2023	Jun. 02, 2024
Universal Radio Communication Tester	R&S	CMW270	101933	Jun. 02, 2023	Jun. 01, 2024
Attenuator	ZHINAN	E-002	N/A	Aug. 04, 2022	Aug. 03, 2024
Power splitter	Mini-Circuits	ZFRSC-183-s	3122	N/A	N/A
Power Meter	R&S	NRVD	8323781027	Mar. 24, 2022	Mar. 23, 2025
2.4GHz Filter	EM Electronics	N/A	N/A	Mar. 18, 2022	Mar. 19, 2024
Small environment tester	ESPEC	SH-242	93008290	Aug. 03, 2022	Aug. 02, 2024
Wideband Antenna	SCHWARZBECK	VULB9168	VULB9168-494	Jan. 05, 2023	Jan. 04, 2024
Double-Ridged Waveguide Horn	ETS	3117	00154520	Jun. 03, 2023	Jun. 02, 2024
RF Cable	Harbour	FLCA-7312-80-1000S2	FL0000169	Nov. 11, 2022	Nov. 10, 2024

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5. ETSI EN 300 440 REQUIREMENTS

5.1. EQUIVALENT ISOTROPICALLY RADIATED POWER (E.I.R.P.)

EN 300 440 Clause 4.2.2.4

Radiated Power \leq 10mW (10dBm) EIRP over Normal and Extreme conditions.

Test Configuration

Temperature and Voltage Measurement (under normal and extreme test conditions)

Equipment measured as constant envelope modulation equipment



Remarks:

For peak power measurements, a spectrum analyser or frequency-selective voltmeter shall be used and tuned to the Presenter carrier at which the highest level is detected.

TEST PROCEDURE

Please refer to ETSI EN 300 440 clause 4.2.2.3 for the test conditions and measurement method.

TEST RESULTS

Operation Mode	Single TX	Test Date	Nov. 21, 2023
Temperature	24.3°C	Tested by	Cici Li
Humidity	63.4% RH	Polarity	--

Mouse:

TEST CONDITIONS		Transmitter Power (dBm)				
		Temp (25)°C	Temp (0)°C		Temp (40)°C	
CHANNEL	VOL POWER	DC 5V	DC 4.5V	DC 5.5V	DC 4.5V	DC 5.5V
2402MHz	EIRP	-0.637	-0.639	-0.641	-0.643	-0.646
2441MHz	EIRP	-1.078	-1.080	-1.083	-1.085	-1.086
2480MHz	EIRP	-1.758	-1.760	-1.763	-1.764	-1.767
Limit		10dBm				
Measurement uncertainty		+ 0.28dB / - 0.30dB				

Dongle:

TEST CONDITIONS		Transmitter Power (dBm)				
		Temp (25)°C	Temp (0)°C		Temp (40)°C	
CHANNEL	VOL POWER	DC 5V	DC 4.5V	DC 5.5V	DC 4.5V	DC 5.5V
2402MHz	EIRP	-1.342	-1.344	-1.346	-1.348	-1.349
2441MHz	EIRP	-2.013	-2.014	-2.017	-2.019	-2.021
2480MHz	EIRP	-3.058	-3.061	-3.063	-3.065	-3.067
Limit		10dBm				
Measurement uncertainty		+ 0.28dB / - 0.30dB				

Conclusion: PASS

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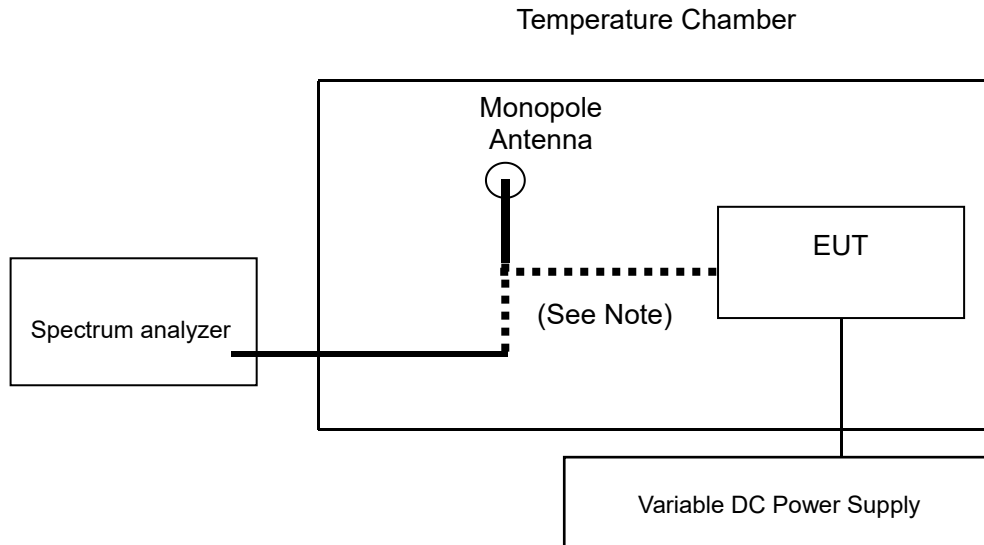
5.2. PERMITTED RANGE OF OPERATING FREQUENCIES

ETSI EN 300 440 clause 4.2.3.5

For all equipment the frequency shall lie within the band 2.4GHz to 2.4835GHz ($f_L > 2.4\text{GHz}$ and $f_H < 2.4835\text{GHz}$)

TEST CONFIGURATION

Temperature and Voltage Measurement (under normal and extreme test conditions)



Remarks:

The spectrum analyzer could be connected to a monopole antenna or directly connected to the EUT, if the EUT has already employing an antenna connector.

TEST PROCEDURE

Please refer to ETSI EN 300 440 clause 4.2.3.3 for the test conditions and measurement method.

TEST RESULTS FOR FREQUENCY RANGE
Mouse:

TEST CONDITION		Frequency Range	
		Low Frequency	High Frequency
Temperature	Voltage	MHz	MHz
25°C	DC 5.0V	2400.960	2480.665
0°C	DC 4.5V	2400.960	2480.665
	DC 5.5V	2400.960	2480.675
40°C	DC 4.5V	2400.960	2480.660
	DC 5.5V	2400.960	2480.665
Measured frequencies (lowest and Highest)		2400.960	2480.675
Limit		FL > 2400MHz	FH < 2483.5MHz

TEST RESULTS FOR 99% OCCUPIED BANDWIDTH

Test Condition	Channel [MHz]	OBW [MHz]	FL@OBW	FH@OBW	Limit [MHz]
Normal	2402	1.0561	2401.472	--	> 2400MHz
Normal	2480	1.0269	--	2480.513	< 2483.5MHz

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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

Dongle:

TEST CONDITION		Frequency Range	
		Low Frequency	High Frequency
Temperature	Voltage	MHz	MHz
25°C	DC 5.0V	2400.995	2480.660
0°C	DC 4.5V	2400.995	2480.700
	DC 5.5V	2400.995	2480.690
40°C	DC 4.5V	2401.000	2480.675
	DC 5.5V	2401.000	2480.665
Measured frequencies (lowest and Highest)		2400.995	2480.700
Limit		FL > 2400MHz	FH < 2483.5MHz

TEST RESULTS FOR 99% OCCUPIED BANDWIDTH

Test Condition	Channel [MHz]	OBW [MHz]	FL@OBW	FH@OBW	Limit [MHz]
Normal	2402	1.0474	2401.476	--	> 2400MHz
Normal	2480	1.0263	--	2480.513	< 2483.5MHz

Conclusion: PASS

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5.3. UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

ETSI EN 300 440 clause 4.2.4

Unwanted emissions in the spurious domain (spurious emissions) are those at frequencies beyond the limit of 250 % of the necessary bandwidth above and below the centre frequency of the emission.

The level of spurious emissions shall be measured as either:

- a)
 - i) Their power level in a specified load (conducted emission); and
 - ii) Their effective radiated power when radiated by the cabinet and structure of the equipment (cabinet radiation); or
- b) Their effective radiated power when radiated by the cabinet and the integral or dedicated antenna, in the case of equipment fitted with such an antenna and no permanent RF connector.

For measurements above 1 000 MHz the peak value shall be measured using a spectrum analyser. The "max hold" function of a spectrum analyser shall be used. For measurements up to 1 000 MHz the quasi-peak detector set in accordance with the specification of CISPR 16 [1] shall be used.

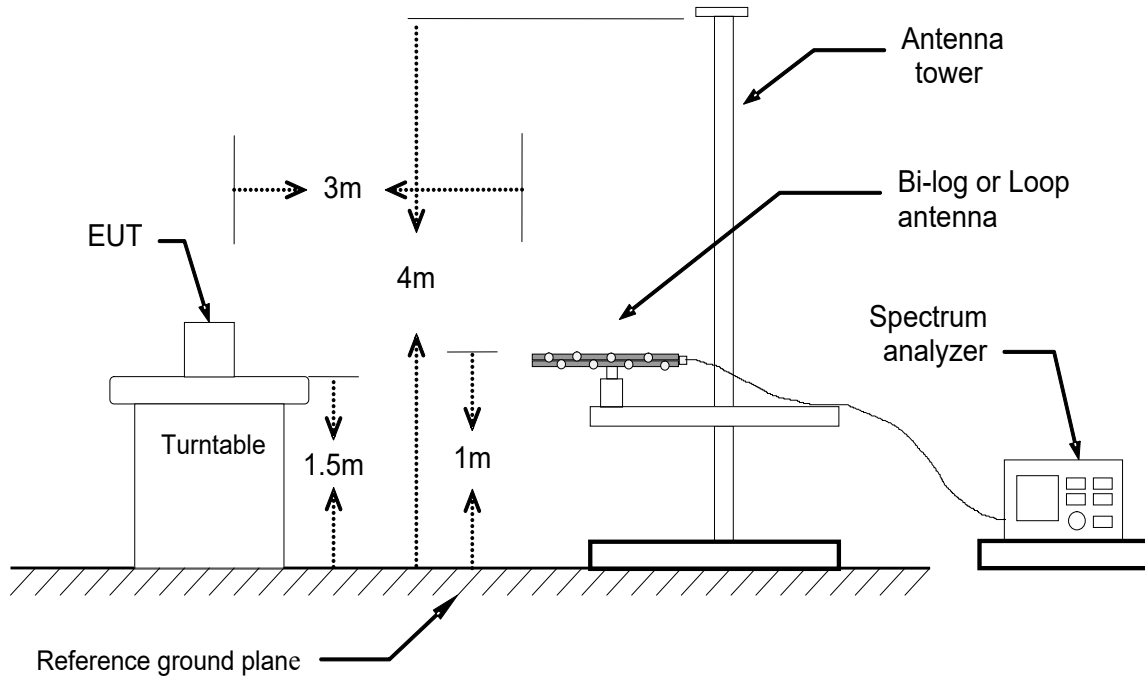
The power of any spurious emission shall not exceed the following values given in table 5.

Frequency ranges	47 MHz to 74 MHz 87,5 MHz to 108 MHz 174 MHz to 230 MHz 470 MHz to 862 MHz	Other frequencies ≤ 1 000 MHz	Frequencies > 1 000 MHz
State			
Operating	4 nW	250 nW	1 μW
Standby	2 nW	2 nW	20 nW

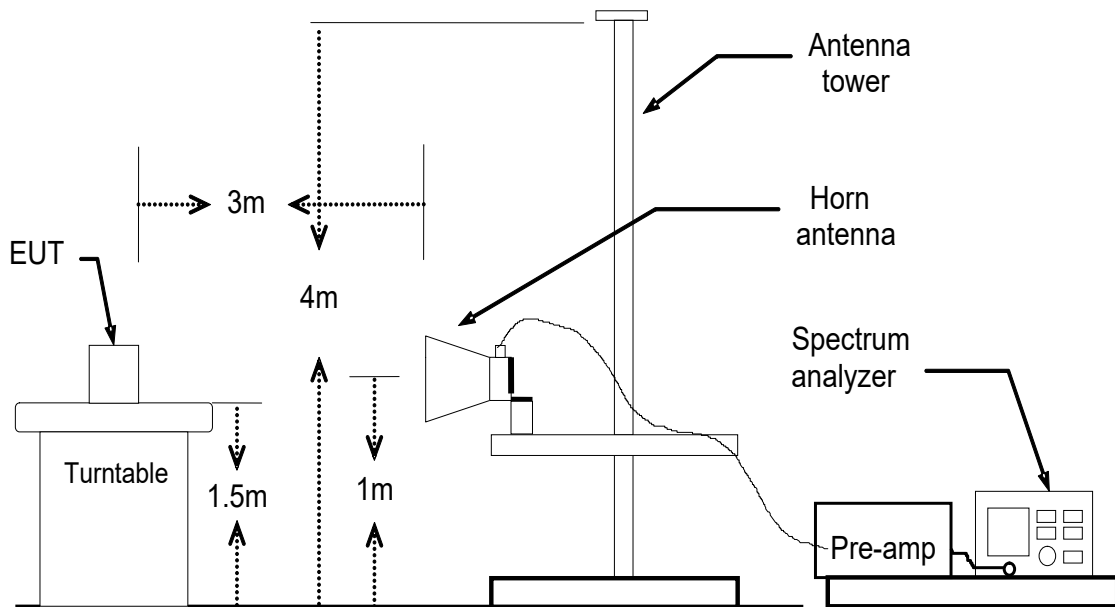
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Test Configuration

Below 1GHz



Above 1GHz



TEST PROCEDURE

Please refer to ETSI EN 300 440 clause 4.2.4.3 for the test conditions and measurement methods.

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TEST RESULT

Mouse:

NO.	Frequency	Measurement Bandwidth	Level	Limit	Margin
	MHz	KHz	EIRP	dBm	dB
TX:2402MHz, Antenna Polarization: Vertical					
1	4804	1000	-40.48	-30	10.48
2	7206	1000	-44.50	-30	14.50
3	9608	1000	\	-30	>10
4	12010	1000	\	-30	>10
5	Other(25-1000)	100	\	-36 or -54	>10
6	Other(1000-25000)	1000	\	-30	>10
TX:2402MHz, Antenna Polarization: Horizontal					
1	4804	1000	-39.86	-30	9.86
2	7206	1000	-44.54	-30	14.54
3	9608	1000	\	-30	>10
4	12010	1000	\	-30	>10
5	Other(25-1000)	100	\	-36 or -54	>10
6	Other(1000-25000)	1000	\	-30	>10
TX:2441MHz, Antenna Polarization: Vertical					
1	4882	1000	-39.26	-30	9.26
2	7323	1000	-43.10	-30	13.10
3	9764	1000	\	-30	>10
4	12205	1000	\	-30	>10
5	Other(25-1000)	100	\	-36 or -54	>10
6	Other(1000-25000)	1000	\	-30	>10
TX:2441MHz, Antenna Polarization: Horizontal					
1	4882	1000	-39.22	-30	9.22
2	7323	1000	-43.96	-30	13.96
3	9764	1000	\	-30	>10
4	12205	1000	\	-30	>10
5	Other(25-1000)	100	\	-36 or -54	>10
6	Other(1000-25000)	1000	\	-30	>10

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TX:2480MHz, Antenna Polarization: Vertical					
1	4960	1000	-41.68	-30	11.68
2	7440	1000	-43.08	-30	13.08
3	9920	1000	\	-30	>10
4	12400	1000	\	-30	>10
5	Other(25-1000)	100	\	-36 or -54	>10
6	Other(1000-25000)	1000	\	-30	>10
TX:2480MHz, Antenna Polarization: Horizontal					
1	4960	1000	-39.81	-30	9.81
2	7440	1000	-43.77	-30	13.77
3	9920	1000	\	-30	>10
4	12400	1000	\	-30	>10
5	Other(25-1000)	100	\	-36 or -54	>10
6	Other(1000-25000)	1000	\	-30	>10
Measurement uncertainty:±3.2dB					

Transmitter Standby Mode

NO.	Frequency	Measurement Bandwidth	Level	Limit	Margin
	MHz	KHz	EIRP	dBm	dB
Standby Mode ,Antenna Polarization: Vertical					
1	25-1000	100	\	-57	>10
2	1000-25000	1000	\	-47	>10
Standby Mode ,Antenna Polarization: Horizontal					
1	25-1000	100	\	-57	>10
2	1000-25000	1000	\	-47	>10

Notes: “\” in the table above means that the emissions are too small to be measured and are at least 10 dB below the limit.

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Dongle:

NO.	Frequency	Measurement Bandwidth	Level	Limit	Margin
	MHz	KHz	EIRP	dBm	dB
TX:2402MHz, Antenna Polarization: Vertical					
1	4804	1000	-40.65	-30	10.65
2	7206	1000	-44.19	-30	14.19
3	9608	1000	\	-30	>10
4	12010	1000	\	-30	>10
5	Other(25-1000)	100	\	-36 or -54	>10
6	Other(1000-25000)	1000	\	-30	>10
TX:2402MHz, Antenna Polarization: Horizontal					
1	4804	1000	-40.27	-30	10.27
2	7206	1000	-43.84	-30	13.84
3	9608	1000	\	-30	>10
4	12010	1000	\	-30	>10
5	Other(25-1000)	100	\	-36 or -54	>10
6	Other(1000-25000)	1000	\	-30	>10
TX:2441MHz, Antenna Polarization: Vertical					
1	4882	1000	-39.10	-30	9.10
2	7323	1000	-43.10	-30	13.10
3	9764	1000	\	-30	>10
4	12205	1000	\	-30	>10
5	Other(25-1000)	100	\	-36 or -54	>10
6	Other(1000-25000)	1000	\	-30	>10
TX:2441MHz, Antenna Polarization: Horizontal					
1	4882	1000	-38.72	-30	8.72
2	7323	1000	-44.44	-30	14.44
3	9764	1000	\	-30	>10
4	12205	1000	\	-30	>10
5	Other(25-1000)	100	\	-36 or -54	>10
6	Other(1000-25000)	1000	\	-30	>10

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TX:2480MHz, Antenna Polarization: Vertical					
1	4960	1000	-41.45	-30	11.45
2	7440	1000	-42.65	-30	12.65
3	9920	1000	\	-30	>10
4	12400	1000	\	-30	>10
5	Other(25-1000)	100	\	-36 or -54	>10
6	Other(1000-25000)	1000	\	-30	>10
TX:2480MHz, Antenna Polarization: Horizontal					
1	4960	1000	-40.23	-30	10.23
2	7440	1000	-44.41	-30	14.41
3	9920	1000	\	-30	>10
4	12400	1000	\	-30	>10
5	Other(25-1000)	100	\	-36 or -54	>10
6	Other(1000-25000)	1000	\	-30	>10
Measurement uncertainty:±3.2dB					

Transmitter Standby Mode

NO.	Frequency	Measurement Bandwidth	Level	Limit	Margin
	MHz	KHz	EIRP	dBm	dB
Standby Mode ,Antenna Polarization: Vertical					
1	25-1000	100	\	-57	>10
2	1000-25000	1000	\	-47	>10
Standby Mode ,Antenna Polarization: Horizontal					
1	25-1000	100	\	-57	>10
2	1000-25000	1000	\	-47	>10

Notes: “\” in the table above means that the emissions are too small to be measured and are at least 10 dB below the limit.

Conclusion: PASS

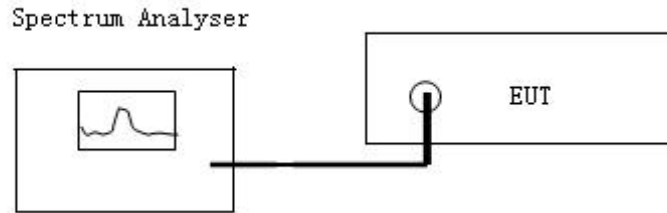
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5.4. DUTY CYCLE

ETSI EN 300 440 clause 4.2.5.4:

Limit: up to 100%

Test Configuration



TEST PROCEDURE

Please refer to ETSI EN 300 440 clause 4.2.5.3 for the test conditions and measurement methods.

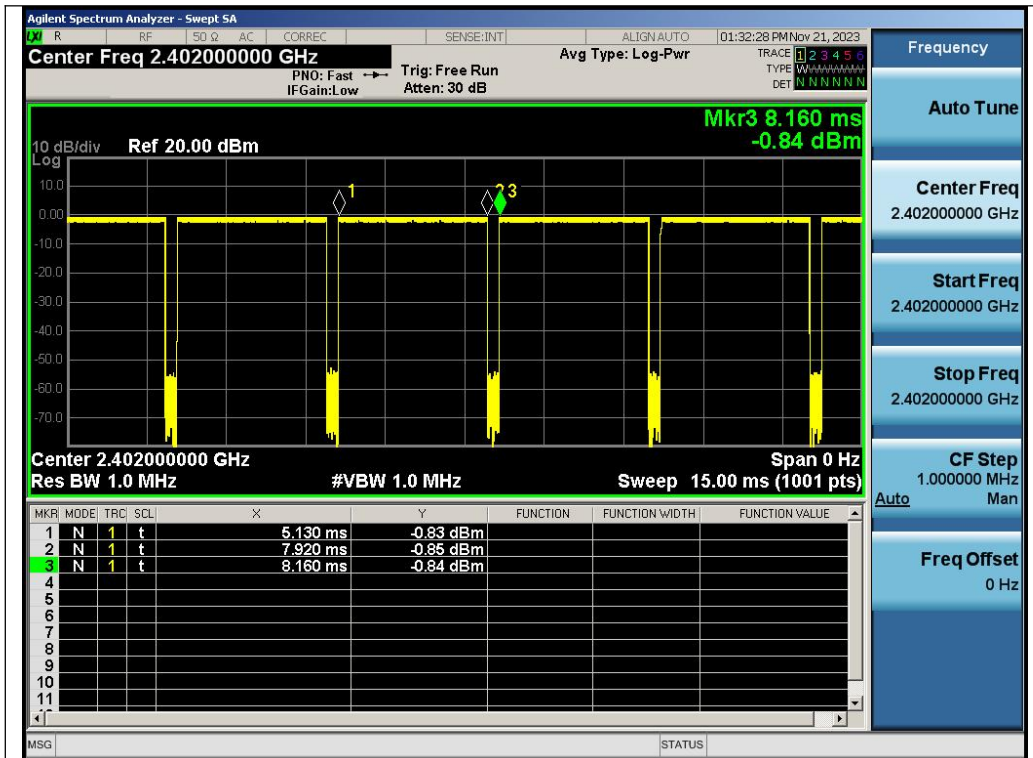
TEST RESULTS

Mouse:

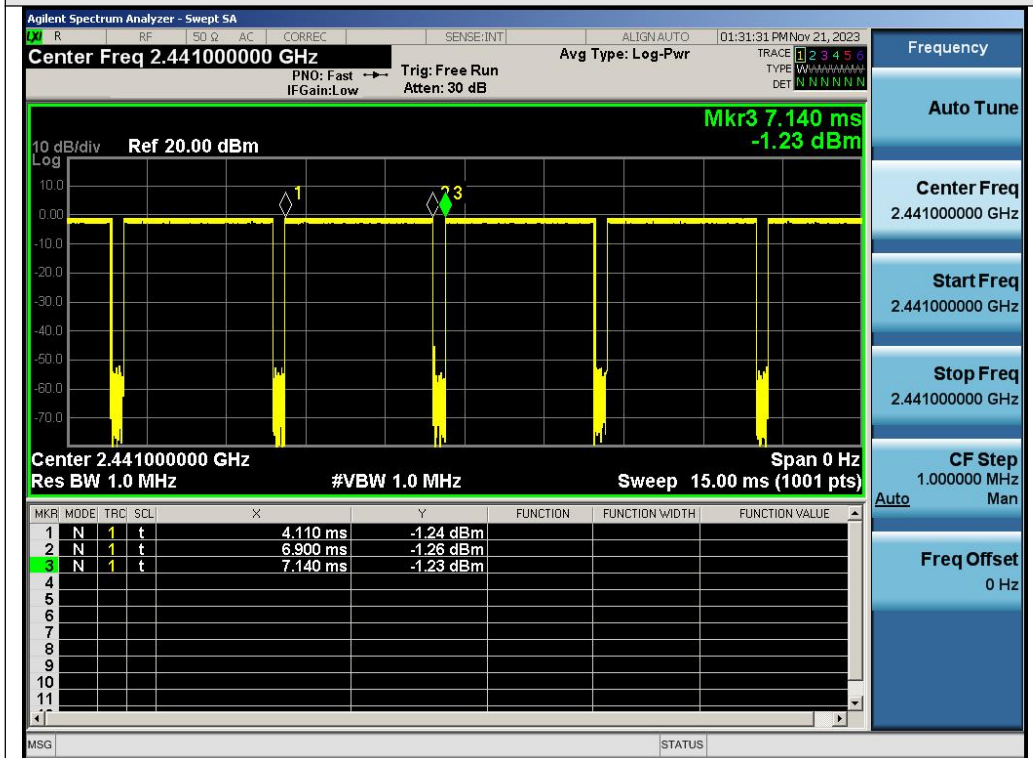
Frequency Measured (MHz)		
Operating frequency (MHz)	Duty cycle	Result (Pass/Fail)
2402MHz	92.08%	Pass
2441MHz	92.08%	Pass
2480MHz	92.08%	Pass

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Test Graphs of Duty Cycle

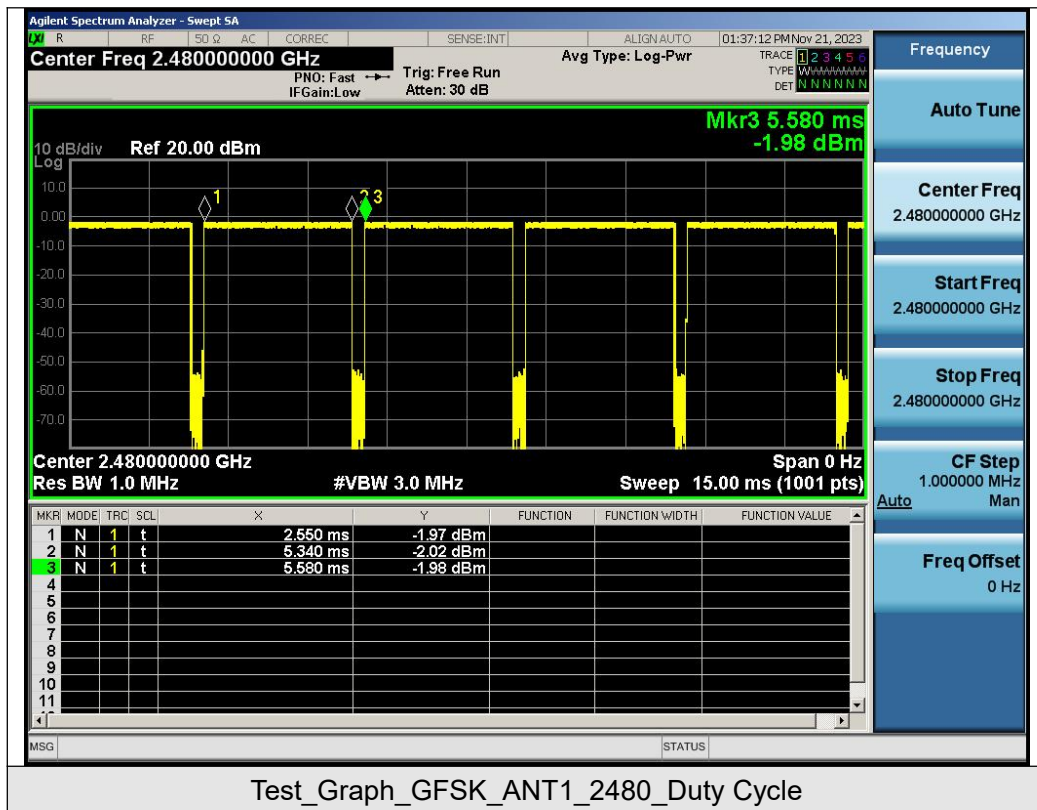


Test_Graph_GFSK_ANT1_2402_Duty Cycle



Test_Graph_GFSK_ANT1_2441_Duty Cycle

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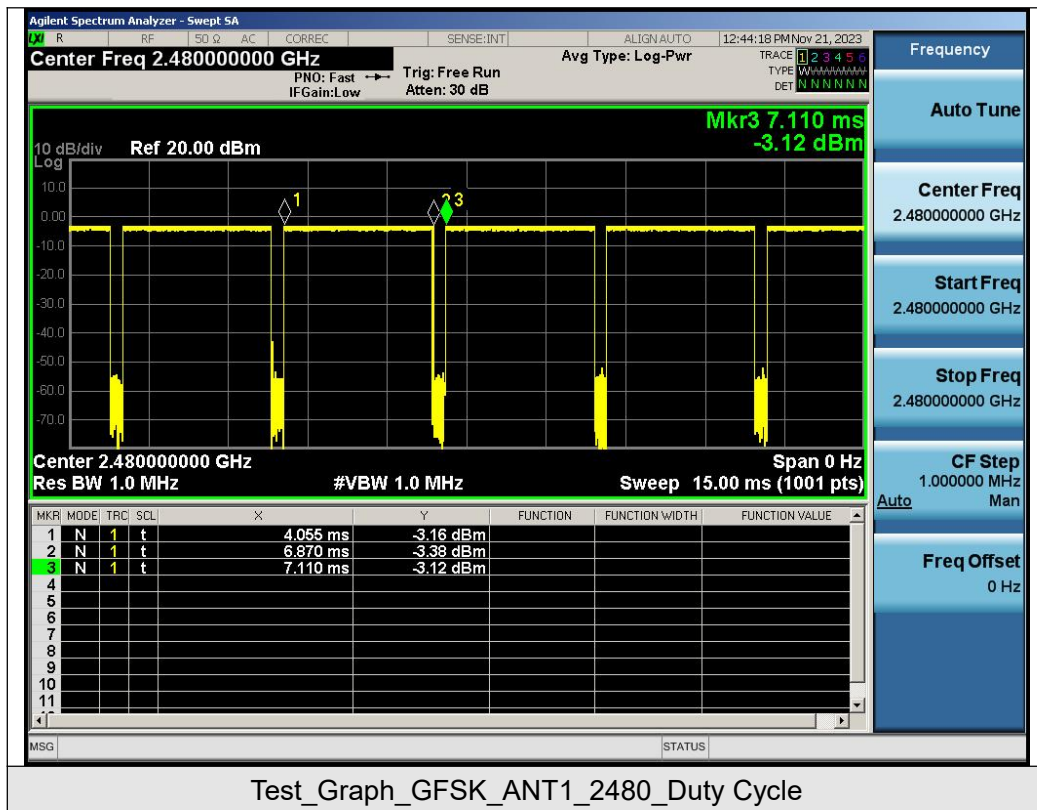
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Dongle:

Frequency Measured (MHz)		
Operating frequency (MHz)	Duty cycle	Result (Pass/Fail)
2402MHz	92.14%	Pass
2441MHz	92.06%	Pass
2480MHz	92.14%	Pass

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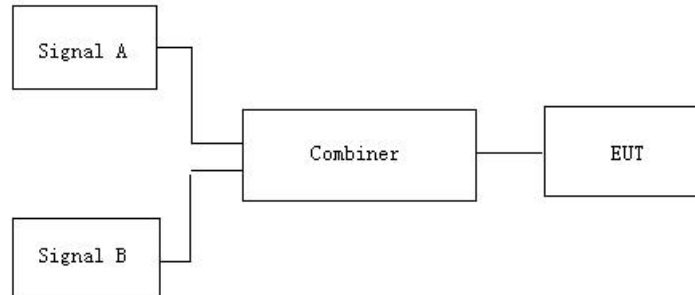


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5.5. BLOCKING OR DESENSITIZATION

TEST SETUP:



TEST LIMITS:

The blocking level, for any frequency within the specified ranges, shall not be less than the values given in table 6, except at frequencies on which spurious responses are found.

Table 6: Limits for blocking or desensitization

Receiver category	Limit
1	-30 dBm + k
2	-45 dBm + k
3	-60 dBm + k

The correction factor, k, is as follows:

$$K = -20 \log f - 10 \log BW$$

Where: - f is the frequency in GHz; - BW is the occupied bandwidth in MHz.

The factor k is limited within the following: $-40 \text{ dB} < k < 0 \text{ dB}$.

TEST PROCEDURE:

1. Two signal generators A and B shall be connected to the receiver via a combining network to the receiver.
2. Signal generator A shall be at the nominal frequency of the receiver, with normal modulation of the wanted signal. Signal generator B shall be unmodulated and shall be adjusted to a test frequency at approximately 10 times, 20 times and 50 times of the occupied bandwidth above upper band edge of occupied bandwidth.
3. Initially signal generator B shall be switched off and using signal generator A the level that still gives sufficient response shall be established. The output level of generator A shall then be increased by 3 dB.
4. Signal generator B is then switched on and adjusted until the wanted criteria are met. This level shall be recorded.
5. The measurement shall be repeated with the test frequency for signal generator B at approximately 10 times, 20 times and 50 times of the occupied bandwidth above upper band edge of occupied bandwidth.
6. The blocking or desensitization shall be recorded as the level in dBm of lowest level of the unwanted signal (generator B).

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TEST RESULT

Mouse:

Blocking or Desensitization			
Receiver category: 2			
Coupling method: Test antenna to the receiver integrated antenna			
Lower band edge of occupied bandwidth (LBE):MHz		2401.472	
Upper band edge of occupied bandwidth (UBE):MHz		2480.513	
Unwanted Frequency Offset (MHz)	Unwanted Signal Level (dBm)	Unwanted Level Limit (dBm)	Verdict
LBE – 50 x OBW	-48	≥ -45+k	Comply with receiver category 2 limit
LBE – 20 x OBW	-46	≥ -45+k	
LBE – 10 x OBW	-42	≥ -45+k	
UBE + 10 x OBW	-40	≥ -45+k	
UBE + 20 x OBW	-43	≥ -45+k	
UBE + 50 x OBW	-44	≥ -45+k	
Measurement uncertainty: 6dB			

K= -7.849

Dongle:

Blocking or Desensitization			
Receiver category: 2			
Coupling method: Test antenna to the receiver integrated antenna			
Lower band edge of occupied bandwidth (LBE):MHz		2401.476	
Upper band edge of occupied bandwidth (UBE):MHz		2480.513	
Unwanted Frequency Offset (MHz)	Unwanted Signal Level (dBm)	Unwanted Level Limit (dBm)	Verdict
LBE – 50 x OBW	-48	≥ -45+k	Comply with receiver category 2 limit
LBE – 20 x OBW	-46	≥ -45+k	
LBE – 10 x OBW	-42	≥ -45+k	
UBE + 10 x OBW	-40	≥ -45+k	
UBE + 20 x OBW	-43	≥ -45+k	
UBE + 50 x OBW	-44	≥ -45+k	
Measurement uncertainty: 6dB			

K= -7.813

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5.6. RECEIVER SPURIOUS EMISSIONS

ETSI EN 300 440 clause 4.3.5

These requirements do not apply to receivers used in combination with permanently co-located Presenters continuously transmitting. Co-located is defined as < 3 m. In these cases the receivers will be tested together with the Presenter in operating mode

The spurious emissions of the receivers shall not exceed the values in tables in the indicated bands:

Frequency Range	Limit when in stand-by
25 MHz to 1 GHz	-57dBm
Above 1 GHz	-47dBm

TEST CONFIGURATION

Radiated Spurious Emissions

Same as section 5.3 in this test report

TEST PROCEDURE

Please refer to ETSI EN 300 440 clause 4.3.5.3 for the test conditions and measurement methods.

TEST RESULTS

Measurement Data for Receiver (worst case 2480MHz)-Mouse

Frequency (MHz)	Spurious Emission		Limit (dBm)	Test Result
	polarization	Level(dBm)		
127.22	Vertical	-67.47	2nW/ -57dBm below 1GHz,	Pass
325.04	V	-65.55		
486.27	V	-62.95		
638.29	V	-61.13		
740.26	V	-59.73		
1425.52	V	-57.61		
Other(25-26000)	V	--		
162.96	Horizontal	-66.82	20nW/ -47dBm above 1GHz.	
253.84	H	-65.21		
362.18	H	-61.62		
586.39	H	-60.76		
623.28	H	-59.33		
1632.81	H	-57.27		
Other(25-26000)	H	--		

Notes:

1. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "--" remark, if no specific emission from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
2. All the modes had been tested, only the worst case recorded in the report.

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Measurement Data for Receiver (worst case 2480MHz)-Dongle

Frequency (MHz)	Spurious Emission		Limit (dBm)	Test Result
	polarization	Level(dBm)		
123.38	Vertical	-67.04	2nW/ -57dBm below 1GHz,	Pass
325.04	V	-65.77		
486.27	V	-63.22		
638.29	V	-61.47		
740.26	V	-60.46		
1425.52	V	-57.87		
Other(25-26000)	V	--		
161.64	Horizontal	-66.80	20nW/ -47dBm above 1GHz.	
253.84	H	-65.29		
362.18	H	-62.16		
586.39	H	-60.72		
623.28	H	-58.96		
1632.81	H	-57.37		
Other(25-26000)	H	--		

Notes:

- Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "--" remark, if no specific emission from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- All the modes had been tested, only the worst case recorded in the report.

Conclusion: PASS

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APPENDIX I: PHOTOGRAPHS OF TEST SETUP
RADIATED SPURIOUS EMISSION BELOW 1G TEST SETUP-Mouse



RADIATED SPURIOUS EMISSION BELOW 1G TEST SETUP-Dongle



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RADIATED SPURIOUS EMISSION ABOVE 1G TEST SETUP-Mouse

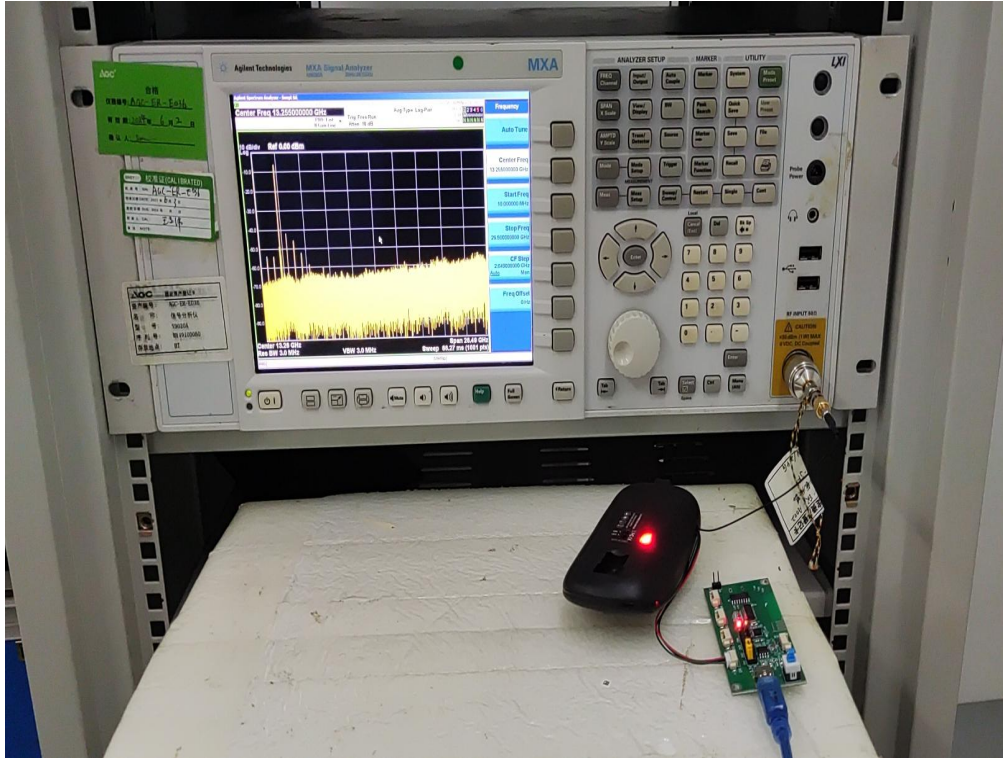


RADIATED SPURIOUS EMISSION ABOVE 1G TEST SETUP-Dongle

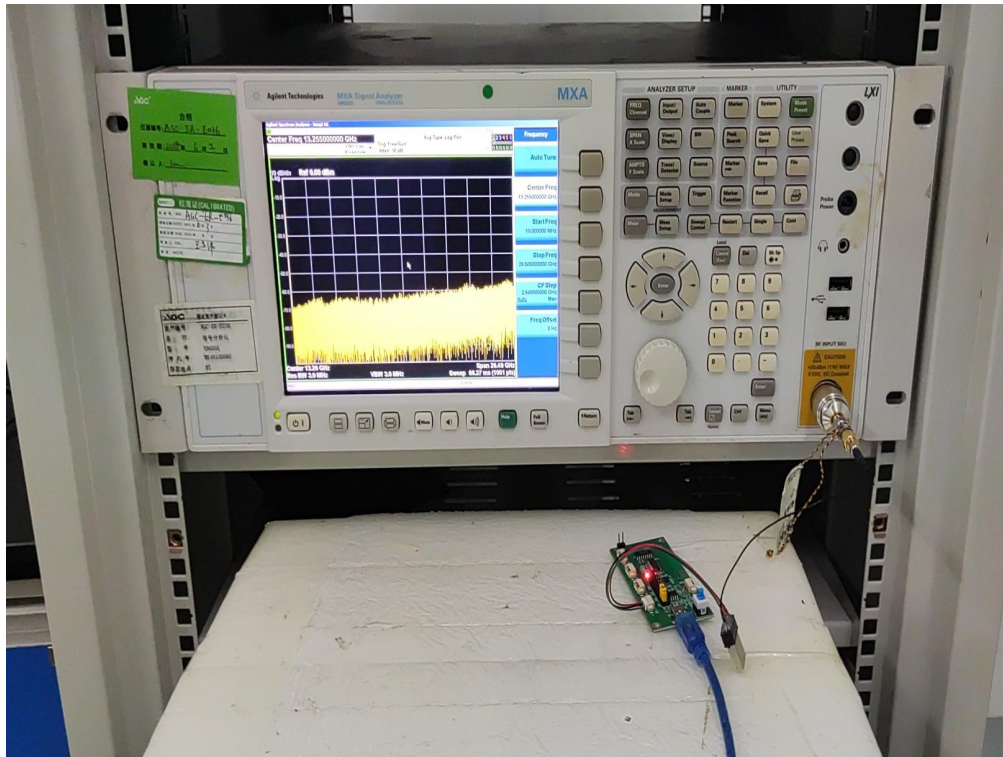


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PHOTOGRAPHS OF THE TEST SETUP-Mouse



PHOTOGRAPHS OF THE TEST SETUP-Dongle



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APPENDIX II: PHOTOGRAPHS OF THE EUT

Refer to the Report No.: AGC12440231102AP01

----END OF REPORT----

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
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5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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Health Test Report

Report No.: AGC12440231102EH01

PRODUCT DESIGNATION : WIRELESS MOUSE
BRAND NAME : N/A
MODEL NAME : MO2222
APPLICANT : Mid Ocean Brands B.V.
DATE OF ISSUE : Nov. 27, 2023
STANDARD(S) : EN 62479:2010
: EN 50663:2017
REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd.



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Nov. 27, 2023	Valid	Initial release

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1. GENERAL INFORMATION

Applicant	Mid Ocean Brands B.V.
Address	7/F., King Tower, 111King Lam Street, Cheung ShaWan, Kowloon, HongKong.
Manufacturer	Mid Ocean Brands B.V.
Address	7/F., King Tower, 111King Lam Street, Cheung ShaWan, Kowloon, HongKong.
Factory	Mid Ocean Brands B.V.
Address	7/F., King Tower, 111King Lam Street, Cheung ShaWan, Kowloon, HongKong.
Product Designation	WIRELESS MOUSE
Brand Name	N/A
Test Model	MO2222
Series Model	N/A
Difference Description	N/A
Date of receipt of test item	Nov. 20, 2023
Date of test	Nov. 20, 2023 to Nov. 27, 2023
Test Result	Pass

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By



Cici Li
(Project Engineer)

Nov. 27, 2023

Reviewed By



Calvin Liu
(Reviewer)

Nov. 27, 2023

Approved By



Max Zhang
Authorized Officer

Nov. 27, 2023

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2. TECHNICAL INFORMATION

Note: the following data is based on the information by the applicant.

Product Designation	WIRELESS MOUSE
Brand Name	N/A
Test Model	MO2222
Hardware Version	VER1.0
Software Version	VER1.0
Operation Frequency	2402-2480MHz
Modulation type	GFSK
Antenna Type	PCB Antenna
Antenna gain	-0.55dBi
Power Supply	Mouse: DC 5V by adapter or DC 3.7V by battery Dongle: DC 5V by PC

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

3. TEST RESULT

Max Emission Level-Mouse				
Frequency (MHz)	EIRP Level (dBm)	EIRP Level(mW)	Limit (mW)	Result
2402	-0.637	0.864	20	Pass
2441	-1.078	0.780	20	Pass
2480	-1.758	0.667	20	Pass

Max Emission Level-Dongle				
Frequency (MHz)	EIRP Level (dBm)	EIRP Level(mW)	Limit (mW)	Result
2402	-1.342	0.734	20	Pass
2441	-2.013	0.629	20	Pass
2480	-3.058	0.495	20	Pass

Note:

1. The maximum output power refers to the project report number: **AGC12440231102ER02**.

4. CONCLUSION

Remark: EUT meets the basic requirements in the standard.



Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
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7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
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