



Report No: TW2404063-01E

Applicant: Eastern Times Technology Co.,Ltd

Product: WIRELESS ULTRA LIGHT-WEIGHT ERGONOMIC GAMING MOUSE

Model No: M917GB-PRO, M917B-PRO, DS-2976, DS-2965, M995W-PRO, M995-PRO, M995P-PRO

Trademark: REDRAGON

Test Standards: ETSI EN 300 440 v 2.2.1 (2018-07)

Test Result: The EMC testing has been performed on the submitted samples and found in compliance with council Radio Equipment Directive (RED) 2014/53/EU

Approved By

A handwritten signature in black ink that reads 'Terry Tang'.

Terry Tang

EMC Manager

Dated: April 19, 2024

**Results appearing herein relate only to the sample tested  
The technical reports is issued errors and omissions exempt and is subject to  
withdrawal at**

**SHENZHEN TIMEWAY TESTING LABORATORIES.**

**Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West,  
Tong Le Village, Nanshan District, Shenzhen, China**

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TEST REPORT



## **Special Statement:**

### **FCC-Registration No.: 744189**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

### **Industry Canada (IC) —Registration No.:5205A**

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

### **A2LA (Certification Number:5013.01)**

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

### **CAB identifier: CN0033**

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## 1. General Information

### 1.1 Notes

The test results of this report relate exclusively to the test item specified in 1.5. The TIMEWAY Lab does not assume Responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the TIMEWAY Lab.

### 1.2 Testing Laboratory

#### SHENZHEN TIMEWAY TESTING LABORATORIES.

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Site on File With the Federal Communications and Commission – United States

Registration Number: 744189

For 3m Anechoic Chamber

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A

For 3m Anechoic Chamber

### 1.3 Details of Applicant

Name: Eastern Times Technology Co.,Ltd

Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City, Guangdong, China.

### 1.4 Application Details

Date of Receipt of Application: April 03, 2024

Date of Receipt of Test Item: April 03, 2024

Date of Test: April 03, 2024 ~ April 19, 2024

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### 1.5 Test Item

Manufacturer: Eastern Times Technology Co.,Ltd

Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City, Guangdong, China.

Trademark: REDRAGON

Model No.: M917GB-PRO

Additional Model: M917B-PRO, DS-2976, DS-2965, M995W-PRO, M995-PRO, M995P-PRO

Description: WIRELESS ULTRA LIGHT-WEIGHT ERGONOMIC GAMING MOUSE

### Additional Information

Frequency: 2405MHz-2475MHz for Mouse/dongle Part

Channel Number: 16

Channel List (unit: MHz): 2405, 2463, 2441, 2426, 2408, 2466, 2445, 2422, 2414, 2471, 2459, 2433, 2419, 2475, 2453, 2447

Modulation Type: GFSK

Antenna Designation: PCB antenna with maximum gain -0.61dBi for Mouse part and 1.66dBi for USB dongle part

Rating: DC5V hosted from PC for USB dongle part; DC5V, 220mA or DC3.7V, 10mA for Mouse Part

Battery: DC3.7V, 400mAh Li-ion battery or Mouse part (Li-ion battery)

Operation Distance: N/A

Resolution: N/A

Extreme Temp. Tolerance: -20°C to 55°C

### Note: Classification according to CEPT/ERC Recommendation 70-03

### 1.6 Test Standards

#### ETSI EN 300 440 v 2.2.1 (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

Note: All radiated measurements were made in all three orthogonal planes. The values reported are the maximum values.

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## 2. Technical Test

### 2.1 Summary of Test Results

No deviations from the technical specification(s) were ascertained in the course of the tests Performed	
Final Verdict: (Only "Passed" if all Measurements are "Passed")	<b>Pass</b>

### 2.2 Test Report

#### Test Report Reference

List of Measurements	
Parameter to be measured	Clause
<b>Transmitter Parameters</b>	
Transmitter Requirements	Clause 4.2.1
Equivalent Isotropically Radiated Power (eirp)	Clause 4.2.2
Permitted Range of Operating Frequencies	Clause 4.2.3
Unwanted emissions in the spurious domain	Clause 4.2.4
Duty Cycle	Clause 4.2.5
<b>Receiver Parameters</b>	
Receiver Requirements	Clause 4.3
Adjacent Band Selectivity	Clause 4.3.3
Blocking or Desensitisation	Clause 4.3.4
Receiver Spurious Emissions	Clause 4.3.5

Note: The clause numbers are referenced to ETSI EN 300 440 v 2.2.1 (2018-07).

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**Clause 4.2.1 Transmitter Requirements**

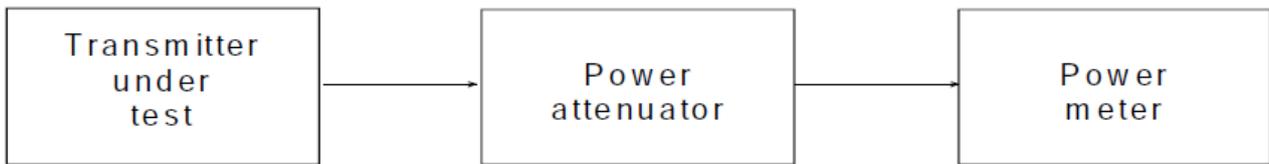
The transmitter with a dedicated antenna.

**Clause 4.2.2 Equivalent Isotropically Radiated Power (eirp)**

For Transmitter

EIRP is calculated by method described under EN 300 440 sub clause 4.2.2.3

Conducted measurements



**Figure 2: Measurement arrangement**

For practical reasons, measurements shall be performed only at the highest power level at which the transmitter is intended to operate. The measurement arrangement in figure 2 shall be used.

The measurement shall be performed preferably in the absence of modulation.

When it is not possible to measure it in the absence of modulation, this fact shall be stated in test reports.

The transmitter shall be set in continuous transmission mode. If this is not possible, the measurements shall be carried out in a period shorter than the duration of the transmitted burst. It may be necessary to extend the duration of the burst.

The transmitter shall be connected to an artificial antenna (see clause 5.8.2) and the power delivered to this artificial antenna shall be measured.

The equivalent isotropically radiated power is then calculated from the measured value, the known antenna gain, relative to an isotropic antenna, and if applicable, any losses due to cables and connectors in the measurement system.

For Transmitter:

Mouse Part

Test Conditions		-6 dB transmitter bandwidth		
		Low Freq. 2405MHz	Mid Freq. 2441MHz	High Freq. 2475MHz
T <sub>nor</sub> (25°C)	V <sub>nor</sub> (3.7V)	1092kHz	1052kHz	1052kHz

USB Dongle Part

Test Conditions		-6 dB transmitter bandwidth		
		Low Freq. 2405MHz	Mid Freq. 2441MHz	High Freq. 2475MHz
T <sub>nor</sub> (25°C)	V <sub>nor</sub> (230V)	1083kHz	1043kHz	1038kHz

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For Transmitter:  
 Mouse Part

Test Conditions		Transmitter Power (Limit 10dBm) EIRP					
		Low Freq. 2405MHz		Mid Freq. 2441MHz		High Freq. 2475MHz	
T <sub>nor</sub> (25°C)	V <sub>nor</sub> (3.7V)	Pk	0.12	Pk	-1.30	Pk	2.71
T <sub>min</sub> (-10°C)	V <sub>H</sub> (4.2V)	Pk	0.18	Pk	-1.26	Pk	2.77
T <sub>max</sub> (+55°C)	V <sub>H</sub> (4.2V)	Pk	0.24	Pk	-1.21	Pk	2.83
T <sub>min</sub> (-20°C)	V <sub>L</sub> (3.3V)	Pk	0.07	Pk	-1.37	Pk	2.65
T <sub>max</sub> (+55°C)	V <sub>L</sub> (3.3V)	Pk	0.01	Pk	-1.42	Pk	2.58

Dongle Part

Test Conditions		Transmitter Power (Limit 10dBm) EIRP					
		Low Freq. 2405MHz		Mid Freq. 2441MHz		High Freq. 2475MHz	
T <sub>nor</sub> (25°C)	V <sub>nor</sub> (230V)	Pk	0.02	Pk	-1.49	Pk	2.51
T <sub>min</sub> (-10°C)	V <sub>L</sub> (207V)	Pk	-0.06	Pk	-1.53	Pk	2.46
T <sub>max</sub> (+55°C)	V <sub>L</sub> (207V)	Pk	-0.13	Pk	-1.59	Pk	2.41
T <sub>min</sub> (-10°C)	V <sub>H</sub> (253V)	Pk	0.07	Pk	-1.43	Pk	2.58
T <sub>max</sub> (+55°C)	V <sub>H</sub> (253V)	Pk	0.14	Pk	-1.39	Pk	2.63

Note:

- (1) The EUT is a stand-alone radio device. The Mouse Part is powered Li-ion battery. The USB dongle part is powered by PC, so the ac source is the power.
- (2) The value of table is worst case during test condition, includes different combinations of transmitter rate antenna polarity and temperature.
- (3) EIRP=Reading + Loss + Antenna Gain

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**Limits: EN 300 440, Clause 4.2.2.4**

**Table 2: Maximum radiated peak power (e.i.r.p.)**

Frequency Bands	Power	Application	Notes
2 400 MHz to 2 483,5 MHz	10 mW e.i.r.p.	Non-specific short range devices	
2 400 MHz to 2 483,5 MHz	25 mW e.i.r.p.	Radio determination devices	
(a) 2 446 MHz to 2 454 MHz	500 mW e.i.r.p.	Radio Frequency Identification (RFID) devices	See also table 4 and annex D
(b) 2 446 MHz to 2 454 MHz	4 W e.i.r.p.	Radio Frequency Identification (RFID) devices	See also table 4 and annex D
5 725 MHz to 5 875 MHz	25 mW e.i.r.p.	Non-specific short range devices	
9 200 MHz to 9 500 MHz	25 mW e.i.r.p.	Radio determination devices	
9 500 MHz to 9 975 MHz	25 mW e.i.r.p.	Radio determination devices	
10,5 GHz to 10,6 GHz	500 mW e.i.r.p.	Radio determination devices	
13,4 GHz to 14,0 GHz	25 mW e.i.r.p.	Radio determination devices	
17,1 GHz to 17,3 GHz	400 mW e.i.r.p.	Radio determination devices	See annex F
24,00 GHz to 24,25 GHz	100 mW e.i.r.p.	Non-specific short range devices and Radio determination devices	

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**Clause 4.2.3 Permitted Range of Operating Frequencies**

For Transmitter:

Mouse Part

Test Conditions		Frequency (MHz) at which-30 dBm occurs	
		Low Frequency (f <sub>L</sub> ) 2405MHz	High Frequency (f <sub>H</sub> ) 2475MHz
T <sub>nor</sub> (25°C)	V <sub>nor</sub> (3.7V)	2403.83267	2476.22745
T <sub>min</sub> (-10°C)	V <sub>H</sub> (4.2V)	2403.83273	2476.22751
T <sub>max</sub> (+55°C)	V <sub>H</sub> (4.2V)	2403.83281	2476.22757
T <sub>min</sub> (-10°C)	V <sub>L</sub> (3.3V)	2403.83262	2476.22739
T <sub>max</sub> (+55°C)	V <sub>L</sub> (3.3V)	2403.83258	2476.22732

USB Dongle Part

Test Conditions		Frequency (MHz) at which-30 dBm occurs	
		Low Frequency (f <sub>L</sub> ) 2405MHz	High Frequency (f <sub>H</sub> ) 2475MHz
T <sub>nor</sub> (25°C)	V <sub>nor</sub> (230V)	2403.83242	2476.22721
T <sub>min</sub> (-20°C)	V <sub>L</sub> (207V)	2403.83236	2476.22717
T <sub>max</sub> (+55°C)	V <sub>L</sub> (207V)	2403.83229	2476.22708
T <sub>min</sub> (-20°C)	V <sub>H</sub> (253V)	2403.83248	2476.22728
T <sub>max</sub> (+55°C)	V <sub>H</sub> (253V)	2403.83253	2476.22735

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Mouse Part

Test Conditions		Frequency (MHz) at which 99%BW occurs	
		Low Frequency (f <sub>L</sub> ) 2405MHz	High Frequency (f <sub>H</sub> ) 2475MHz
T <sub>nor</sub> (25°C)	V <sub>nor</sub> (3.7V)	2404.07315	2475.90681
T <sub>min</sub> (-10°C)	V <sub>H</sub> (4.2V)	2404.07321	2475.90689
T <sub>max</sub> (+55°C)	V <sub>H</sub> (4.2V)	2404.07329	2475.90696
T <sub>min</sub> (-10°C)	V <sub>L</sub> (3.3V)	2404.07311	2475.90674
T <sub>max</sub> (+55°C)	V <sub>L</sub> (3.3V)	2404.07316	2475.90668

USB Dongle Part

Test Conditions		Frequency (MHz) at which 99%BW occurs	
		Low Frequency (f <sub>L</sub> ) 2405MHz	High Frequency (f <sub>H</sub> ) 2475MHz
T <sub>nor</sub> (25°C)	V <sub>nor</sub> (230V)	2404.07296	2475.90643
T <sub>min</sub> (-20°C)	V <sub>L</sub> (207V)	2404.07287	2475.90636
T <sub>max</sub> (+40°C)	V <sub>L</sub> (207V)	2404.07281	2475.90629
T <sub>min</sub> (-20°C)	V <sub>H</sub> (253V)	2404.07302	2475.90648
T <sub>max</sub> (+40°C)	V <sub>H</sub> (253V)	2404.07309	2475.90653

Note:

- (1) The EUT is a stand-alone radio device. The Headset part is powered Li-ion battery. The USB dongle part is powered by PC, so the ac source is the power.
- (2) The value of table is worst case during test condition, includes different combinations of transmitter rate antenna polarity and temperature.

Limits EN 300 440 Clause 4.2.3.5

Under Normal Test Conditions	F <sub>L</sub> >2400MHz, f <sub>H</sub> <2483.5
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**Clause 4.2.4 Spurious Emissions  
 (Radiated)**

Product	WIRELESS ULTRA LIGHT-WEIGHT ERGONOMIC GAMING MOUSE	Test Mode	Low and High Channel
Test Item	Spurious Emissions data	Temperature	25°C
Test Voltage	DC5V(Dongle), DC3.7V (Mouse Part)	Humidity	56%RH
Test Result	Pass	Model:	M917GB-PRO

Note:

1. Measurements were done on low & high channels, the worst case are submitted in the report.
2. The spurious emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges.
3. The test frequency range is from 25M-25G and please see clause 4.2.4.3.3 of EN 300 440 for the test method.

**Low Channel (2405MHz) for Mouse Part**

Horizontal			Vertical		
F(MHz)	Band-Width(kHz)	Level (dBm)	F(MHz)	Band-Width(kHz)	Level(dBm)
175.53	100	-67.3	176.03	100	-68.2
4810	1000	-46.2	4810	1000	-48.9
Measurement Uncertainty		4. 7dB			

**High Channel (2475MHz) for Mouse Part**

Horizontal			Vertical		
F(MHz)	Band-Width(kHz)	Level (dBm)	F(MHz)	Band-Width(kHz)	Level(dBm)
176.22	100	-66.7	175.39	100	-66.9
4950	1000	-44.9	4950	1000	-47.3
Measurement Uncertainty		4. 7dB			

**Low Channel (2405MHz) for USB Dongle Part**

Horizontal			Vertical		
F(MHz)	Band-Width(kHz)	Level (dBm)	F(MHz)	Band-Width(kHz)	Level(dBm)
365.50	100	-70.8	268.31	100	-71.3
4810	1000	-47.0	4810	1000	-50.6
Measurement Uncertainty		4. 7dB			

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**High Channel (2475MHz) for USB Dongle Part**

Horizontal			Vertical		
F(MHz)	Band-Width(kHz)	Level (dBm)	F(MHz)	Band-Width(kHz)	Level(dBm)
285.50	100	-70.7	310.62	100	-70.6
4950	1000	-45.1	4950	1000	-48.3
Measurement Uncertainty		4. 7dB			

Limits EN 300 440, Clause 4.2.4.4

**Table 3: Spurious emissions**

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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**Clause 4.2.5 Duty Cycle  
 For Transmitter**

The EUT is WIRELESS ULTRA LIGHT-WEIGHT ERGONOMIC GAMING MOUSE intends to use in household and office or related application, It's declared by the manufacturer as a duty ratio up to 100%

Product	WIRELESS ULTRA LIGHT-WEIGHT ERGONOMIC GAMING MOUSE	Test Mode	Low, High and Middle Channel
Test Item	Duty Cycle	Temperature	25°C
Test Voltage	DC5V(Dongle), DC3.7V (Mouse Part)	Humidity	56%RH
Test Result	Pass	Model:	M917GB-PRO

**X = Duty Cycle Ratio, Up to 100%**

**Limits EN 300 440-1, Clause 4.2.5.4**

**Table 4: Duty cycle limits**

Frequency Band	Duty cycle	Application	Notes
2 400 MHz to 2 483,5 MHz	No Restriction	Generic use	
2 400 MHz to 2 483,5 MHz	No Restriction	Radiodetermination	
(a) 2 446 MHz to 2 454 MHz	No Restriction	RFID	Limits shown in Annex G shall apply
(b) 2 446 MHz to 2 454 MHz	≤ 15 %	RFID	Limits shown in Annex G shall apply
5 725 MHz to 5 875 MHz	No Restriction	Generic use	
9 200 MHz to 9 500 MHz	No Restriction	Radiodetermination	
9 500 MHz to 9 975 MHz	No Restriction	Radiodetermination	
10,5 GHz to 10,6 GHz	No Restriction	Radiodetermination	
13,4 GHz to 14,0 GHz	No Restriction	Radiodetermination	
17,1 GHz to 17,3 GHz	DAA or equivalent techniques	Radiodetermination, limited to GBSAR detecting and movement and alert applications	Limits shown in Annex I shall apply
24,0 GHz to 24,25 GHz	No Restriction	Generic use and for radiodetermination	
<b>NOTE:</b> The spectrum ranges in some entries are not harmonised throughout all EU territory, specifically entries 4, 9, and 11 have been identified as such. Implementers are cautioned to refer to CEPT/ERC Recommendation 70-03 [i.2] as well as current National Radio plans to verify acceptance within intended regions of use.			

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**Clause 4.3 Receiver Requirements**

**For Receiver**

**Receiver Classification, Table 2 of EN300 440**

**Table 5: Receiver categories**

Receiver category	Relevant receiver clauses	Risk assessment of receiver performance
1	4.3.3, 4.3.4 and 4.3.5	Highly reliable SRD communication media; e.g. serving human life inherent systems (may result in a physical risk to a person).
2	4.3.4 and 4.3.5	Medium reliable SRD communication media e.g. causing inconvenience to persons, which cannot simply be overcome by other means.
3	4.3.5	Standard reliable SRD communication media e.g. Inconvenience to persons, which can simply be overcome by other means (e.g. manual).

**Note: The EUT (Rx Part) belongs to Class 3**

**Clause 4.3.3 Adjacent Band Selectivity**

**For Receiver**

Product	WIRELESS ULTRA LIGHT-WEIGHT ERGONOMIC GAMING MOUSE	Test Mode	Low and High Channel
Test Item	Adjacent Band Selectivity	Temperature	25°C
Test Voltage	DC5V(Dongle), DC3.7V (Mouse Part)	Humidity	56%RH
Test Result	Pass	Model:	M917GB-PRO

**Mouse under receiving mode**

**Low Channel-2405MHz**

Adjacent channel selectivity	Limit
-30.8	-38.00

**High Channel-2475MHz**

Adjacent channel selectivity	Limit
-29.4	-38.09

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**USB Dongle under receiving mode**

Low Channel-2405MHz

Adjacent channel selectivity	Limit
-31.6	-37.97

High Channel-2475MHz

Adjacent channel selectivity	Limit
-31.3	-38.03

**Limit**

The adjacent channel selectivity of the equipment under specified conditions shall not be less than  $-30 \text{ dBm} + k$ .

The correction factor, k, is as follows:

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

Where:

- f is the frequency in GHz;
- BW is the channel bandwidth in MHz.

The factor k is limited within the following:

$$-40 < k < 0 \text{ dB.}$$

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High Channel-2475MHz

Wanted Signal (MHz)	Unwanted Signal (MHz)	Blocking Level (dBm)	Limit	Result
2475	2475+10	-41.6	-68.03	Pass
2475	2475+20	-29.2	-68.03	Pass
2475	2475+50	-27.7	-68.03	Pass

Note: the receive channel bandwidth is 1MHz

**Limit**

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 channel bandwidth in MHz.

The factor k is limited within the following:

$$-40 \text{dB} < k < 0 \text{dB}$$

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**Clause 4.3.5 Receiver Spurious Emissions  
 (Radiated)**

Product	WIRELESS ULTRA LIGHT-WEIGHT ERGONOMIC GAMING MOUSE	Test Mode	Low and High Channel
Test Item	Spurious Emissions data	Temperature	25°C
Test Voltage	DC5V for USB dongle part and DC 3.7V for Mouse Part	Humidity	56%RH
Test Result	Pass	Model:	M917GB-PRO

Note:

1. Measurements were done on low & high channels, the worst case are submitted in the test report.
2. The receiver spurious emissions were done with different settings, using the relevant and pre-amplifiers for the relevant frequency ranges.

**Low Channel (2405MHz) for Mouse Part**

Horizontal			Vertical		
F(MHz)	Band-Width(kHz)	Level (dBm)	F(MHz)	Band-Width(kHz)	Level(dBm)
228.39	100	-71.3	298.15	100	-70.7
Measurement Uncertainty		4. 7dB			

**High Channel (2475MHz) for Mouse Part**

Horizontal			Vertical		
F(MHz)	Band-Width(kHz)	Level (dBm)	F(MHz)	Band-Width(kHz)	Level(dBm)
269.28	100	-70.9	330.23	100	-71.1
Measurement Uncertainty		4. 7dB			

**Low Channel (2405MHz) for USB Dongle Part**

Horizontal			Vertical		
F(MHz)	Band-Width(kHz)	Level (dBm)	F(MHz)	Band-Width(kHz)	Level(dBm)
345.05	100	-71.2	274.62	100	-70.7
Measurement Uncertainty		4. 7dB			

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**High Channel (2475MHz) for USB Dongle Part**

Horizontal			Vertical		
F(MHz)	Band-Width(kHz)	Level (dBm)	F(MHz)	Band-Width(kHz)	Level(dBm)
197.73	100	-71.4	266.38	100	-70.8
Measurement Uncertainty		4.7dB			

- Note: 1. All reading are peak; Scan form 25MHz to 25GHz; find the maximum radiation frequency to measure.  
2. Both the Headset part and USB dongle under receiving mode  
3. Worse case is recorded

**Limits EN 300 440, Clause 4.3.5.4**

The power of any spurious emission shall not exceed 2 nW in the range 25 MHz to 1 GHz and shall not exceed 20 nW on frequencies above 1 GHz.

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### 3.0 Product Labelling

CE Mark label specification

Text of the mark is black or white in color and is left justified. Labels are printed in indelible ink on permanent adhesive backing and shall be affixed at a conspicuous location on the EUT or silk-screened onto the EUT.



Mark Location: Rear enclosure



#### 4. Photographs – Test Setup

##### Spurious Radiated emission test view



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**Spurious Radiated emission test view**



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### 5.0 Photographs – EUT

Outside View-Mouse



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Outside View-Mouse



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Outside View-Mouse



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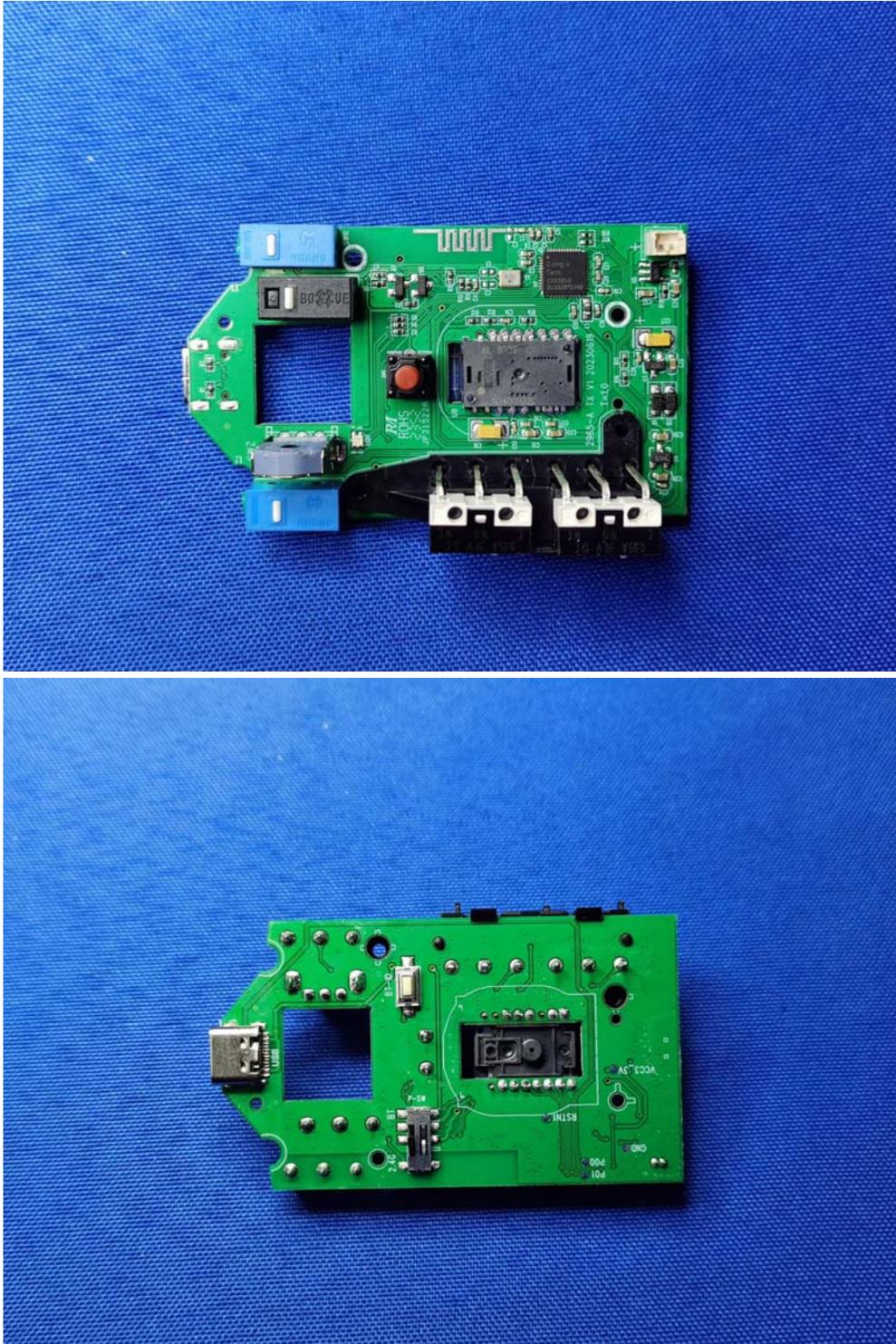


Inside View-Mouse



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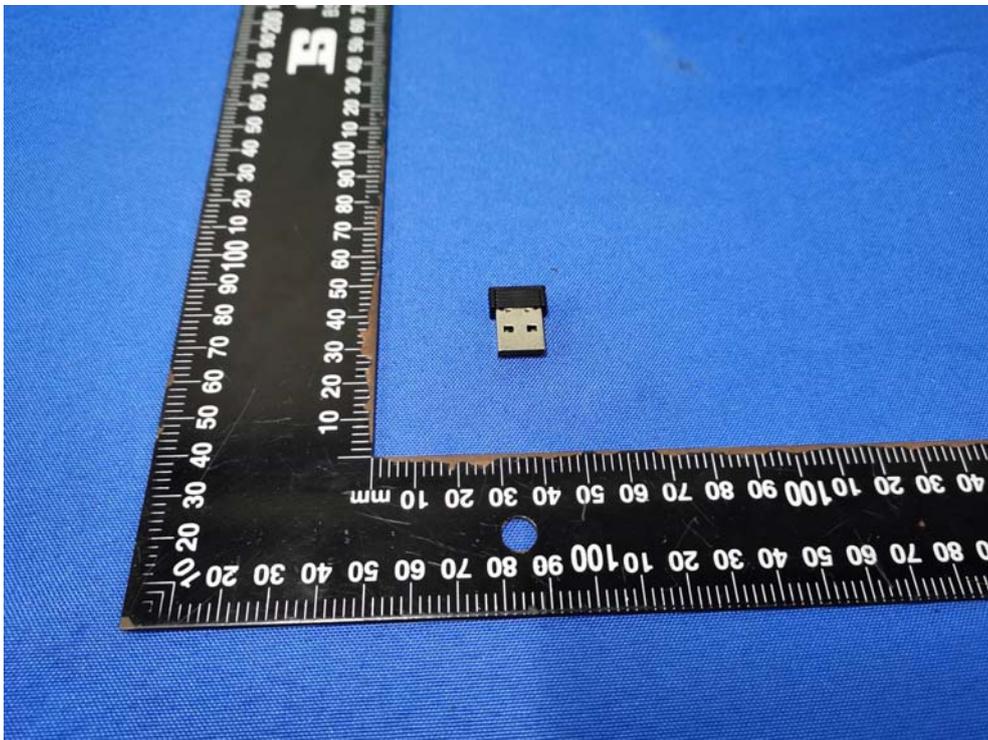
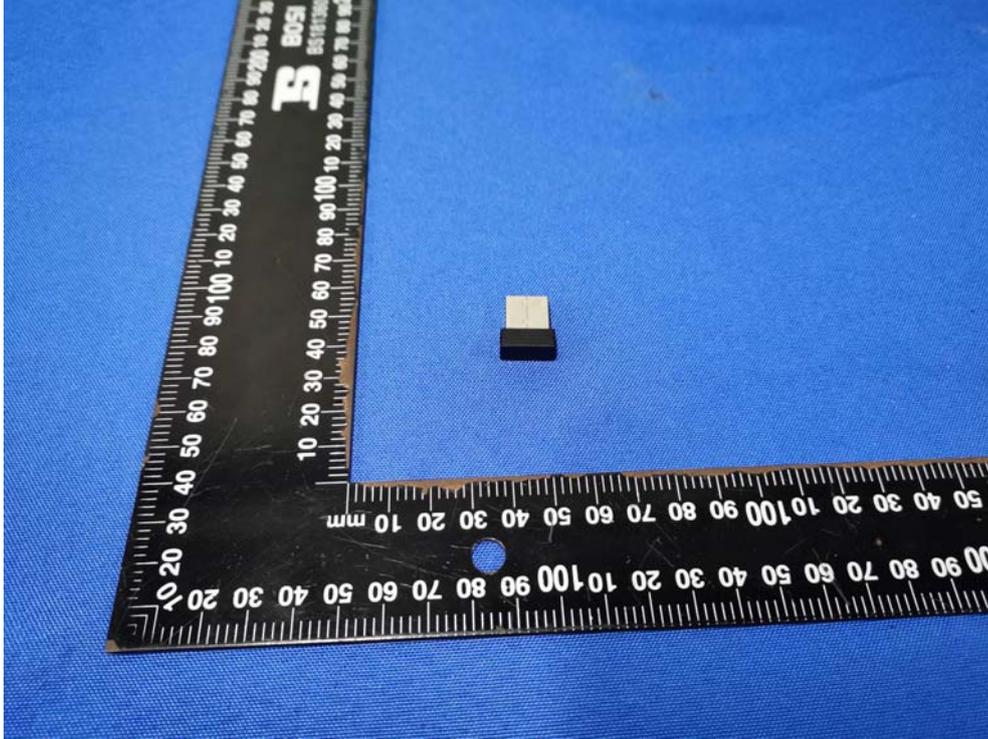
Inside View-Mouse



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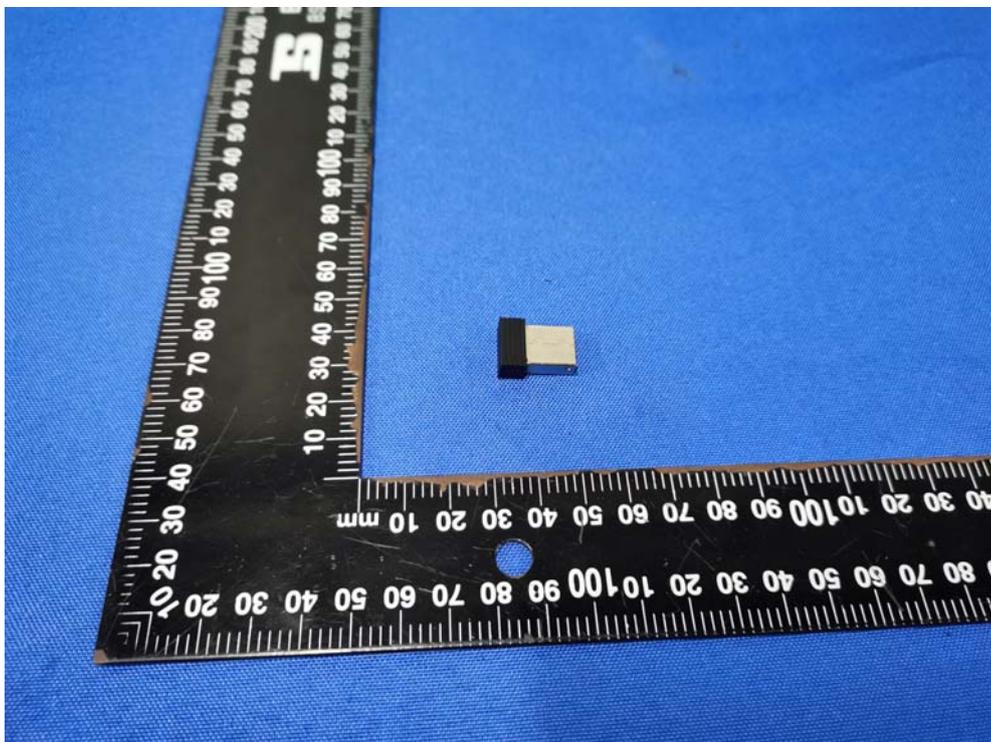
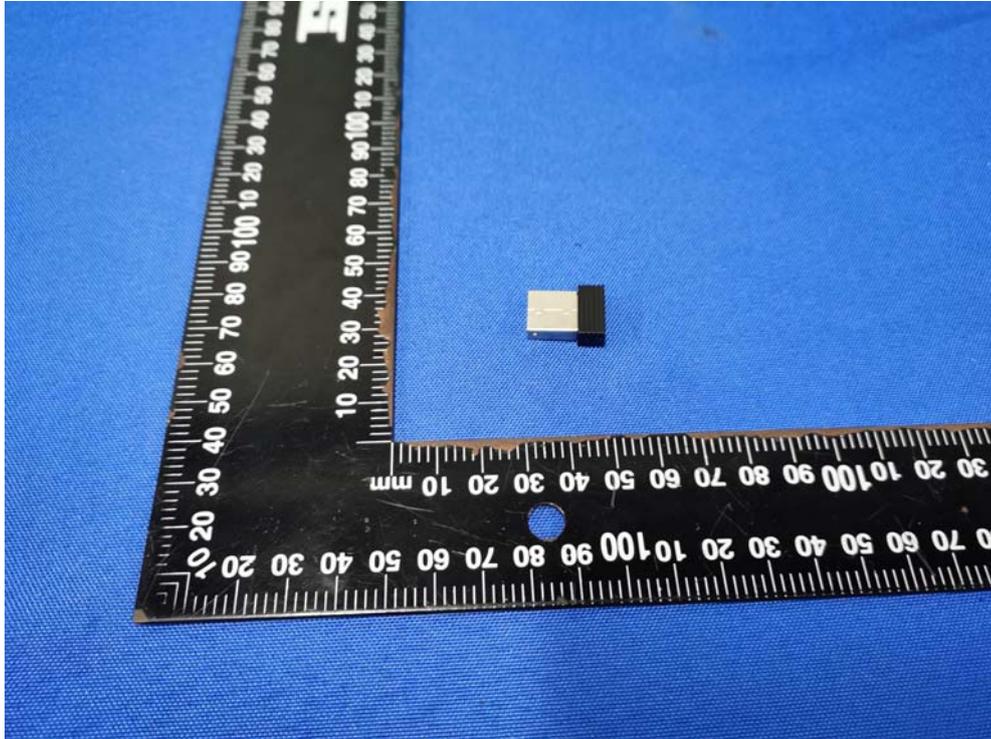
Outside View-Dongle



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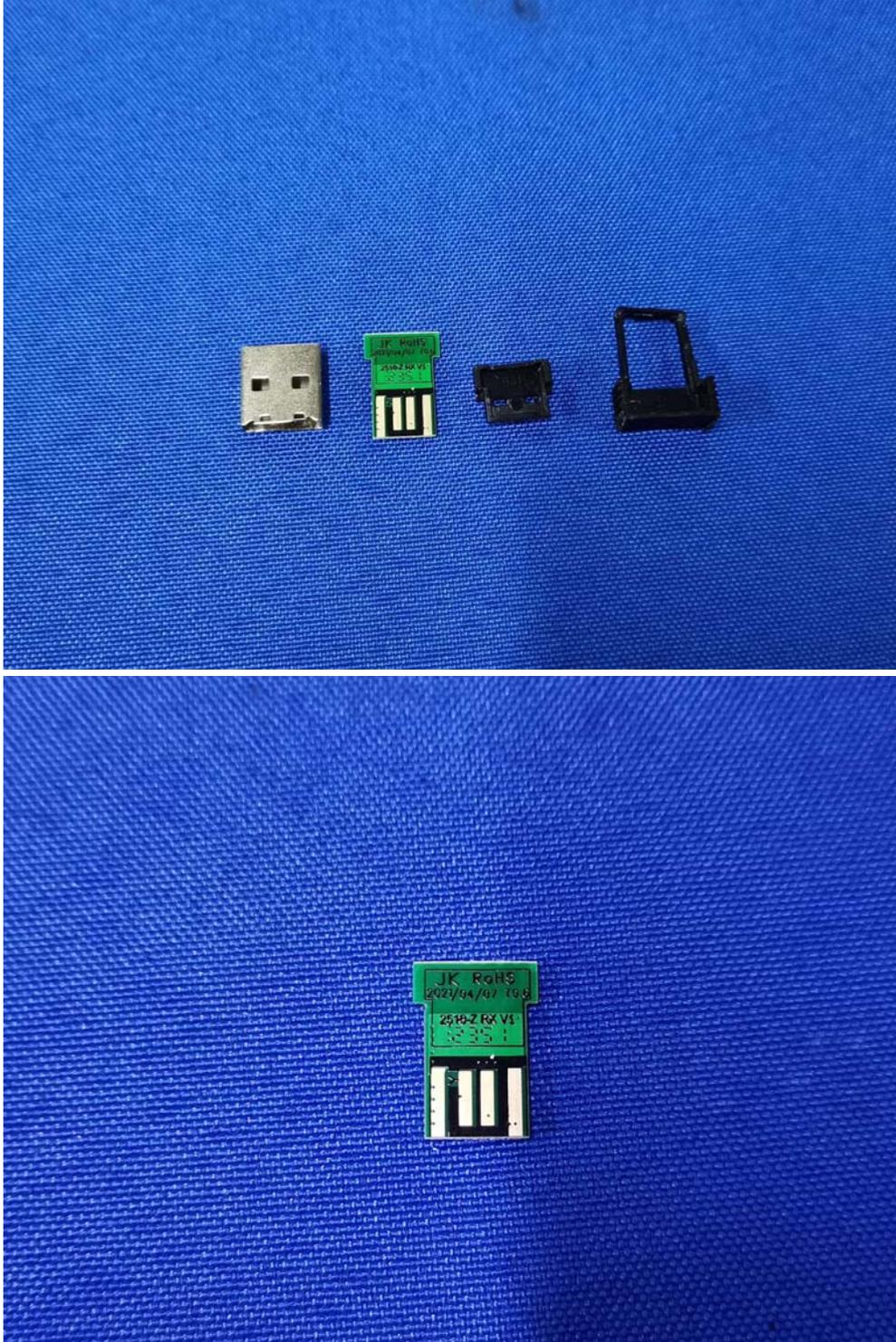
Outside View-Dongle



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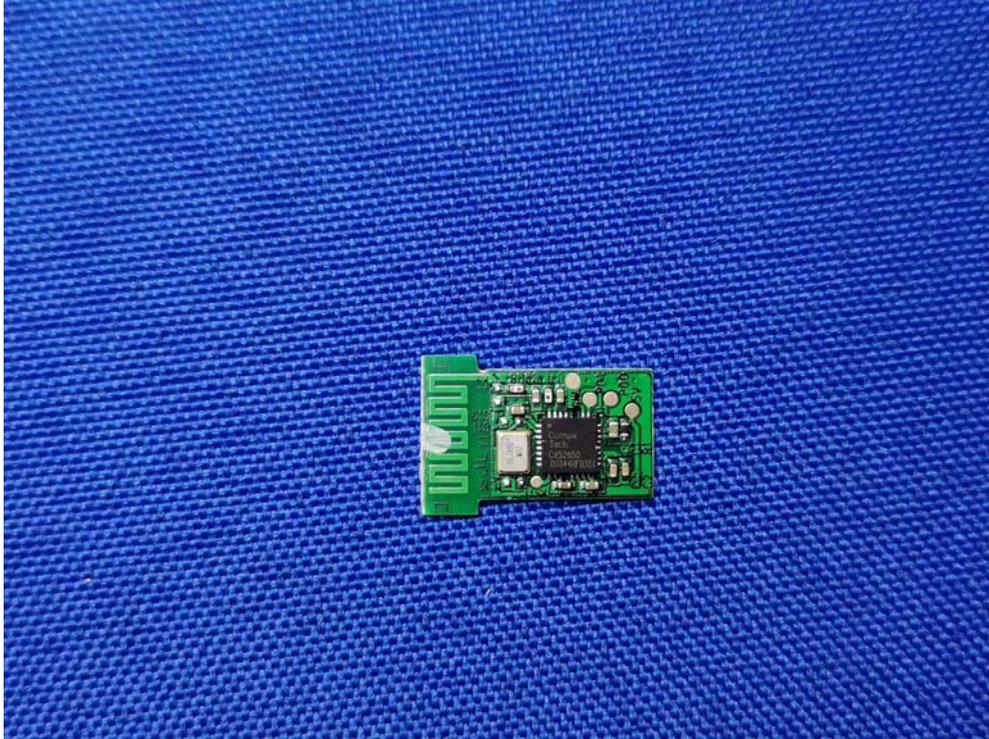
Inside View-Dongle



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Inside View-Dongle



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6.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2023-07-14	2024-07-13
TWO Line-V-NETW	R&S	EZH3-Z5	100294	2023-07-14	2024-07-13
TWO Line-V-NETW	R&S	EZH3-Z5	100253	2023-07-14	2024-07-13
Ultra Broadband ANT	R&S	HL562	100157	2023-07-14	2024-07-13
ESVB Test Receiver	R&S	ESVB	826156/011	2023-07-14	2024-07-13
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2023-07-14	2024-07-13
5K VA AC Power Source	California Instruments	5001iX	56060	2023-07-14	2024-07-13
CDN	EM TEST	CDN M2/M3	-	2023-07-14	2024-07-13
Attenuation	EM TEST	ATT6/75	-	2023-07-14	2024-07-13
Resistance	EM TEST	R100	-	2023-07-14	2024-07-13
Electromagnetic Injection Clamp	LITTHI	EM101	35708	2023-07-14	2024-07-13
Inductive Components	EM TEST	MC2630	-	2023-07-14	2024-07-13
Antenna	EM TEST	MS100	-	2023-07-14	2024-07-13
Signal Generator	R&S	SMT03	100029	2023-07-14	2024-07-13
Power Amplifier	AR	150W1000	300999	2023-07-14	2024-07-13
Field probe	Holiday	HI-6005	105152	2023-07-14	2024-07-13
Bilog Antenna	Chase	CBL6111C	2576	2022-07-18	2025-07-17
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Test Receiver	R&S	ESI26	838786/013	2023-07-14	2024-07-13
966 Chamber	YIHENG	--	N/A	2022-07-26	2025-07-25
Vector Signal Generator	AGILENT	E4438C	MY49070163	2024-01-11	2025-01-10
Splitter	Mini-Circuits	ZAP-50W	NN256400424	2024-01-11	2025-01-10
Directional Coupler	AGILENT	87300C	MY44300299	2024-01-11	2025-01-10
vector Signal Generator	AGILENT	E4438C	US44271917	2024-01-11	2025-01-10

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4 Ch.Simultaneous Sampling 14 Bits 2 MS/s	AGILENT	U2531A	TW54063507	2024-01-11	2025-01-10
4 Ch.Simultaneous Sampling 14 Bits 2 MS/s	AGILENT	U2531A	TW54063513	2024-01-11	2025-01-10
Splitter	Mini	PS3-7	4463	2024-01-11	2025-01-10
Spectrum Analyzer	AGILENT	E7405A	US44210471	2024-01-11	2025-01-10
Attenuator	Resnet	20dB	(n.a)	2024-01-11	2025-01-10
Signal Analyzer	AGILENT	N9010A	MY48030494	2024-01-11	2025-01-10
ESD Simulator	NoiseKen	ESS-2002	ESS06Y6394	2023-07-14	2024-07-13
Continuous Wave Simulator	EM TEST	CWS 500N	0704-05	2023-07-14	2024-07-13
Ultra Compact Simulator	EM TEST	UCS 500 M4	0304-42	2023-07-14	2024-07-13
Pre-Amplifier	HP	8447B	--	2023-07-14	2024-07-13
Horn Antenna	SchwarzBeck	BBHA9120D	01919	2023-07-14	2024-07-13
BiConiLog Antenna	SchwarzBeck	9163	1139	2023-07-14	2024-07-13
Pre-Amplifier	SchwarzBeck	BBV 9743	#218	2023-07-14	2024-07-13

The report refers only to the sample tested and does not apply to the bulk.  
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## 7.0 Measurement Uncertainty

Test Item	Uncertainty
Radio frequency	$\pm 1 \times 10^{-7}$
RF power, conducted	$\pm 2.5\text{dB}$
Radiated emission of transmitter, valid to 26,5 GHz	$\pm 6\text{dB}$
Radiated emission of transmitter, valid between 26,5 GHz and 66 GHz	$\pm 8\text{dB}$
Radiated emission of receiver, valid to 26,5 GHz	$\pm 6\text{dB}$
Radiated emission of receiver, valid between 26,5 GHz and 66 GHz	$\pm 8\text{dB}$
RF level uncertainty for a given BER	$\pm 1.5\text{dB}$
Occupied Bandwidth	$\pm 10\%$
Temperature	$\pm 2.5^\circ\text{C}$
Humidity	$\pm 5\%$
Voltage (DC)	$\pm 1\%$
Voltage (AC, < 10 kHz)	$\pm 2\%$

## End of the Report

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