

## RF EXPOSURE TEST REPORT

**Application No.** : IP19082740  
**Applicant** : ASBISC Enterprises PLC  
**Equipment Under Test (EUT)**  
**EUT Name** : Wireless mouse  
**Model No.** : CNS-CMSW13XX  
**Serial No.** : CNS-CMSW13BO  
**Brand Name** : CANYON  
**Receipt Date** : 2019-08-07  
**Test Date** : 2019-08-08 to 2019-08-16  
**Issue Date** : 2019-08-17  
**Standards** : EN 62479: 2010  
**Conclusions** : **PASS**

In the configuration tested, the EUT complied with the standards specified above. The EUT technically complies with the RED Directive of 2014/53/EU requirements.

**Test/Witness Engineer**



**Approved & Authorized**



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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# 1 General Information

## 1.1 Client Information

Applicant : ASBISC Enterprises PLC  
Address : 43 Kolonakiou street, Diamond Court, 4103, Ayios Athanasios, Limassol, Cyprus  
Manufacturer : DONGGUAN INDENA ELECTRONIC TECHNOLOGY CO.,LTD.  
Address : City NO.6 GAOLI 7<sup>TH</sup> ROAD QINGHUTOU COMMUNITY TANGXIA TOWN DONGGUAN,CHINA

## 1.2 General Description of EUT (Equipment Under Test)

<b>EUT Name</b>	:	Wireless mouse
<b>Model No.</b>	:	CNS-CMSW13XX
<b>Serial No.</b>	:	CNS-CMSW13BO
<b>Power Rating</b>	:	DC 3V from battery
<b>Connecting I/O Port(S)</b>	:	Please refer to the User's Manual

**Note:**

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

## 1.3 Test Facility

The testing report were performed by the Shenzhen iPEN Testing Technology Co., Ltd., in their facilities located at 4/F Building E,Fenghuanggang Second Industrial Zone,Xixiang Street, Baoan District,Shenzhen,China.

## 2 Conformity Assessment Methods

### 2.1 General Considerations

Compliance of electromagnetic emissions from electronic and electrical equipment with the basic restrictions usually is determined by measurements and, in some cases, calculation of the exposure level. If the electrical power used by or radiated by the equipment is sufficiently low, the electromagnetic fields emitted will be incapable of producing exposures that exceed the basic restrictions. This standard provides simple EMF assessment procedures for this low power equipment.

For transmitter intended for use with more than one antenna configuration option, the combination of transmitter and antenna(s) which generates the highest available antenna power and/or average total radiated power shall be assessed.

### 2.2 Low-power exclusion level ( $P_{\max}$ ) based on considerations of SAR

Low-power electronic and electrical equipment is deemed to comply with the provisions of this standard if it can be demonstrated using routes B, C or D that the available antenna power and/or the average total radiated power is less than or equal to the applicable low-power exclusion level  $P_{\max}$ .

When SAR is the basic restriction, a conservative minimum value for  $P_{\max}$  can be derived, equal to the localized SAR limit ( $SAR_{\max}$ ) multiplied by the average mass ( $m$ ):

$$P_{\max} = SAR_{\max} m$$

Example values of  $P_{\max}$  according to Equation are provided in follows for cases described by the ICNIRP Guidelines, IEEE Std C95.1-1999 and IEEE Std C95.1-2005 where SAR limits are defined. Other exposure guidelines or standards may be applicable depending on national regulations.

Note: Unless otherwise mentioned in other applicable regulations or standards, the most recent edition IEEE C95.1-2005 takes precedence over the previous edition IEEE C95.1-1999.

**Example values of SAR-based  $P_{\max}$**

Guideline/ Standard	SAR limit, $SAR_{\max}$ W/kg	Averaging mass, m g	$P_{\max}$ mW	Exposure tier	Region of body
ICNIRP	2	10	20	General public	Head and trunk
	4	10	40	General public	Limbs
	10	10	100	Occupational	Head and trunk
	20	10	200	Occupational	Limbs
IEEE Std C95.1-1999	1.6	1	1.6	Uncontrolled environment	Head, trunk, arms, legs
	4	10	40	Uncontrolled environment	Hands, wrists, feet and ankles
	8	1	8	Controlled environment	Head, trunk, arms, legs
	20	10	200	Controlled environment	Hands, wrists, feet and ankles

IEEE Std C95.1-2005	2	10	20	Action level	Body except extremities and pinnae
	4	10	40	Action level	Exremities and pinnae
	10	10	100	Controlled environment	Body except extremities and pinnae
	20	10	200	Controlled environment	Exremities and pinnae

When power density is the basic restriction, a conservative minimum value for  $P_{\max}$  can be derived, equal to the power density limit (s) multiplied by the averaging area (a);

$$P_{\max} = S_a$$

Therefore, equation yields conservative values for  $P_{\max}$  of 20 mW and 100 mW for general public and occupational exposures, respectively.

### 3 Test Results Summary

#### 3.1 Transmit Power

Wireless mouse				
Frequency (MHz)	Power(dBm)	Power(mW)	Limit(mW)	Result
2405	3.45	2.2502	20	PASS
2438	3.06	1.9675	20	PASS
2472	2.83	1.9436	20	PASS

More details please refer to Report IP-RF19082743 for more details.

#### 3.2 Client Information

The result: PASS

From results of report IP-RF19082743 can be assumed that the compliance criteria is Fulfilled (max radiated power is less than 20mW). The assumption is made with an uncertainty of 30%.

\*EN 62479:2010 Annex A: Derivation of low-power exclusion level from ICNIRP and IEEE exposure limits.

The ICNIRP guidelines provide SAR limits of 2W/kg, and averaging mass 10g, over the 10GHz to 300 GHz frequency range for general public and occupational exposures, respectively, and a conservative minimum value for  $P_{\max}=20\text{mW}$ . So when the equipment radiated power is less than 20mW, it complies with EMF basic restrictions.