



# TEST REPORT

Report Number. .... :	90836-25-72-25-PP002	
Date of issue..... :	2025-09-09	
Prepared by (+signature)..... :	Susan	Susan Huo
Approved by (+signature) ..... :	Jason	Jason Gao
Testing Laboratory name ..... :	SLG-CPC Testlaboratory Co., Ltd.	
Address..... :	No. 11, Wu Song Road, Dongcheng District Dongguan, Guangdong Province, 523117, People's Republic of China	
Applicant's name ..... :	Shenzhen Putuo Technology Co., Ltd	
Address..... :	3rd Floor, Building 9, Jiatiangang Industrial Zone, Huangtian, Hangcheng Street, Baoan District, Shenzhen, China	
Manufacturer's name ..... :	Shenzhen Putuo Technology Co., Ltd	
Address..... :	3rd Floor, Building 9, Jiatiangang Industrial Zone, Huangtian, Hangcheng Street, Baoan District, Shenzhen, China	
Factory's name ..... :	Shenzhen Putuo Technology Co., Ltd	
Address..... :	3rd Floor, Building 9, Jiatiangang Industrial Zone, Huangtian, Hangcheng Street, Baoan District, Shenzhen, China	
Standard(s)..... :	§15.247(i), §2.1093	
Test item description..... :	WIRELESS MOUSE	
Trade Mark..... :	/	
Model/Type reference..... :	XSD-33, XSD-41, XSD-53, XSD-72	
FCC ID..... :	2BGX5-PT	
Date of receipt of test item..... :	2025-09-02	
Date (s) of performance of test:	2025-09-03 to 2025-09-08	
Summary of Test Results ..... :	Pass	
The Summary of Test Results based on a technical opinion belongs to the standard(s).		
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## Modified History

Report No.	Revision Date	Summary
90836-25-72-25-PP002	2025-09-09	Original Report

## 1. EUT Specification

Characteristics	Description
<b>Product:</b>	WIRELESS MOUSE
<b>Model Number:</b>	XSD-33, XSD-41, XSD-53, XSD-72 (All modules are based on the same design principle and PCB. The different models are just to distinguish enclosure and switch, Here we choose XSD-72 as the test EUT)
<b>Device Type:</b>	/
<b>Data Rate:</b>	1Mbps for GFSK modulation
<b>Modulation:</b>	GFSK
<b>Operating Frequency Range(s) :</b>	2402-2479MHz
<b>Number of Channels:</b>	2.4G:16 channels
<b>Transmit Power Max:</b>	2.4G: 83.39dBuV/m@3m
<b>Antenna Gain:</b>	2.08 dBi
<b>Power supply:</b>	DC 1.5V for one AA battery
<b>Evaluation applied:</b>	<input type="checkbox"/> MPE Evaluation <input checked="" type="checkbox"/> SAR Evaluation

## 2. Test Requirement:

### RF EXPOSURE EVALUATION

According to §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances*  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity SAR,<sup>24</sup> where

- $f_{\text{(GHz)}}$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation<sup>25</sup>
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum *test separation distance* is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is  $< 5$  mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by §2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval. One antenna is available for the EUT. The minimum separation distance is 5mm.

### 3. Measurement Result

Transmit Frequency (MHz)	Mode	Field strength (dBuV/m)	Power (dBm)	Tune up Power (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
2402	GFSK	82.01	-13.15	±1	-12.15	0.018904	3
2437	GFSK	77.14	-18.02	±1	-17.02	0.006204	3
2479	GFSK	83.39	-11.77	±1	-10.77	0.026388	3

$$\text{Power} = E_{\text{Meas}} + 20 \log(d_{\text{Meas}}) - 104.7$$

Where

Power is the equivalent isotropically radiated power. in dBm

$E_{\text{Meas}}$  is the field strength of the emission at the measurement distance, in dBuV/m

$d_{\text{Meas}}$  is the measurement distance, in m.  $d_{\text{Meas}} = 3\text{m}$

The two modes cannot work at the same time.

According to KDB 447498 D01 General RF Exposure Guidance v06, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

\*\*\* End of Report \*\*\*

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