



# RF Exposure Evaluation

## FCC ID: 2AXLH-C882

### 1. Client Information

<b>Applicant</b>	:	Shenzhen Xiantaistar Technology Co., Ltd
<b>Address</b>	:	201&401, No.528 Pinglong East Rd, Pinghu Street, Longgang District Shenzhen, China
<b>Manufacturer</b>	:	Shenzhen Xiantaistar Technology Co., Ltd
<b>Address</b>	:	201&401, No.528 Pinglong East Rd, Pinghu Street, Longgang District Shenzhen, China

### 2. General Description of EUT

EUT Name	:	wireless mouse	
Model(s) No.	:	C882, C881, C883, C885, C886, C887, C889	
Model Different	:	All these models are identical in the same PCB, layout and electrical circuit, the only difference is appearance and color.	
Sample ID	:	RW-C-202206-0121-1-1# RW-C-202206-0121-1-2#	
Product Description	:	Operation Frequency:	2402MHz~2479MHz
		Number of Channel:	16channels
		RF Output Power:	-2.52dBm
		Antenna Gain:	2.58dBi PCB Antenna
Power Supply	:	USB Input: DC 5V DC 3.7V by 1200mAh Rechargeable Li-ion battery	
Software Version	:	----	
Hardware Version	:	----	
Remark: The antenna gain provided by the applicant, the adapter and verified for the RF conduction test and adapter provided by TOBY test lab.			

**Note:** More test information about the EUT please refer the RF Test Report.



## The RF Exposure Evaluation for FCC:

### SAR Test Exclusion Calculations

**FCC:** According to 447498 D04 Interim General RF Exposure Guidance v01.

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold  $P_{th}$  (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive).  $P_{th}$  is given by Formula (B.2).

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left( \frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and  $f$  is in GHz,  $d$  is the separation distance (cm), and  $ERP_{20 \text{ cm}}$  is per Formula (B.1). The example values shown in Table B.2 are for illustration only.

**Table B.2—Example Power Thresholds (mW)**

Frequency (MHz)	Distance (mm)									
	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169



**Calculation:**

Test separation: 5mm					
2.4G Mode					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mW)	Limit P <sub>th</sub> (mW)
2.402	-2.67	-2±1	-1	0.794	3
2.437	-2.52	-2±1	-1	0.794	3
2.479	-2.92	-2±1	-1	0.794	3
The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 D04, No SAR is required.					

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