

# RF Exposure Evaluation Report

Product Name : WIRELESS GAMING KEYBOARD

Model No. : X807

FCC ID : XW3DKKBX807

Applicant : Dongguan Siliten Electronics CO.,LTD

Address : Sijia Yewu Industrial estate, Shijie Town, Dongguan, China

Date of Receipt : Nov. 13, 2021

Date of Declaration : Dec. 24, 2021

Report No. : 21B0533R-RFUSMPEV03-A

Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Issued Date: Dec. 24, 2021

Report No.: 21B0533R-RFUSMPEV03-A



Product Name	WIRELESS GAMING KEYBOARD	
Applicant	Dongguan Siliten Electronics CO.,LTD	
Address	Sijia Yewu Industrial estate, Shijie Town, Dongguan, China	
Manufacturer	Dongguan Siliten Electronics CO.,LTD	
Model No.	X807	
FCC ID.	XW3DKKBX807	
Trade Name	ASUS	
Applicable Standard	KDB 447498 D01 v06	<input type="checkbox"/> Minimum test separation distance $\geq 20$ cm <input checked="" type="checkbox"/> For low power devices
Test Result	Complied	

Documented By : April Chen  
 (Senior Project Specialist / April Chen)

Tested By : Jack Hsu  
 ( Senior Engineer / Jack Hsu )

Approved By : Tim Sung  
 ( Manager / Tim Sung )

## Revision History

Report No.	Version	Description	Issued Date
21B0533R-RFUSMPEV03-A	V1.0	Initial issue of report.	Dec. 24, 2021

## 1. GENERAL INFORMATION

### 1.1. EUT Description

Product Name	WIRELESS GAMING KEYBOARD
Trade Name	ASUS
Model No.	X807
FCC ID.	XW3DKKBX807
Frequency Range	2.4G wireless: 2403-2480MHz BLE: 2402 – 2480MHz
Channel Number	2.4G wireless: 78 BLE: 40CH
Type of Modulation	2.4G wireless: Pi/4 DQPSK BLE: GFSK
Antenna Type	FPC Antenna
Antenna Gain	Refer to the table “Antenna List”

#### Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Baishun	BS1C55F3D40A	FPC Antenna	4.51dBi for 2.4GHz

## 1.2. Test Facility

**USA : FCC Registration Number: TW0033**

**Canada : IC Registration Number: 26930**

Site Description : Accredited by TAF  
Accredited Number: 3023

Test Laboratory : DEKRA Testing and Certification Co., Ltd  
Address : No. 5-22, Ruishukeng Linkou District, New Taipei City,  
24451, Taiwan

Performed Location : No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City  
333411, Taiwan, R.O.C.

Phone number : +886-3-275-7255

Fax number : +866-3-327-8031

Email address : [info.tw@dekra.com](mailto:info.tw@dekra.com)

Website : <http://www.dekra.com.tw>

## 2. RF Exposure Evaluation

### 2.1. Standard Applicable

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

### 2.2. Measurement Result:

According to KDB Publication 447498 D01, section 4.3.1, per the calculations of item 1 ( $\text{Power(mW)}/\text{separation (mm)} \cdot \sqrt{f(\text{GHz})} \leq 3.0$ ), SAR is required as shown in the table below where calculated values are greater than 3.0:

Operation frequency = 2450MHz and antenna separation distance = 5mm

Body SAR Test Exclusion Threshold = 10mW

Frequency Band (MHz)	Maximum peak output power Peak Gain: <b>4.51dBi</b>			SAR Test Exclusion Threshold	Calculated Threshold Value ( $\leq 3.0$ SAR is not required)
	conducted (dBm)	EIRP (dBm)	EIRP (mW)	(mW)	
BLE-2402	3.58	8.09	6.44	10	1.997
2.4G wireless 2480	-4.07	0.44	1.11	10	0.349

Note1: The SAR/MPE measurement is not necessary.

Note2: The maximum peak output power is refer to report No.: 21B0533R-RFUSBLEV01-A from the DEKRA.