



# RF TEST REPORT

Report No.:FCS202507297W04

**Applicant** : Fujian Iselected E-commerce Co., Ltd.

**Product Name** : 2.4GHz & Bluetooth Wireless Keyboard

**Brand Name** : Philips

**Model Name** : SPK8618

**Series model** : SPK8618DTRH,SPK8618HTRH,SPK8618SXRH,SPK8618CTRH,SPK8618UPRH

**FCC ID** : 2BMNP-SPK8618

**Test Standard** : FCC CFR Title 47 Part 2.1093

**Date of Receipt** : Jul 09, 2025

**Date of Test** : Jul 11, 2025~Jul 18, 2025

**Issue Date** : Jul 31, 2025

**Tested by** : Scott Shen  
(Scott Shen)

**Reviewed by** : Duke Qian  
(Duke Qian)

**Approved by** : Jack Wang  
(Jack Wang)



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## REVISION HISTORY

Rev.	Issue Date	Revisions	Revised by
00	Jul 31, 2025	Initial Release	/

## DECLARATION OF REPORT

1. The device has been tested by Flux Compliance, and the test results show that the equipment under test (EUT) is in compliance with the requirements of 47 CFR Part 2.1093. And it is applicable only to the tested sample identified in the report.
2. This report shall not be reproduced except in full, without the written approval of Flux Compliance, this document only be altered or revised by Flux Compliance, personal only, and shall be noted in the revision of the document.
3. The general information of EUT in this report is provided by the customer or manufacturer, Flux Compliance is only responsible for the test data but not for the information provided by the customer or manufacturer.
4. The results in this report is only apply to the sample as tested under conditions. The customer or manufacturer is responsible for ensuring that the additional production units of this model have the same electrical and mechanical components.
5. In this report, '□' indicates that EUT does not support content after '□', and '☒' indicates that it supports content after '☒'

## 1. GENERAL DESCRIPTION

### 1.1. Applicant

Name : Fujian Iselected E-commerce Co., Ltd.

Address : 15th Floor, Building A, Aofeng Plaza, No. 2 Aofeng Road, Taijiang District, Fuzhou City, Fujian Province, China

### 1.2. Manufacturer

Name : MMD (Shanghai) Electronic Technology Co., Ltd.

Address : Room107, Building 17 , No. 525 Yuanjiang Road, Minhang District, Shanghai, China

### 1.3. Factory

Name : SISUN ELECTRONICS TECHNOLOGY (DG) CO., LTD

Address : Sisun industrial park,Xikeng road, Puxin village,Shipai town,Dongguan,China

#### 1.4. General Information of EUT

General Information	
Equipment Name	2.4GHz & Bluetooth Wireless Keyboard
Brand Name	Philips
Model Name	SPK8618
Series Model	SPK8618DTRH,SPK8618HTRH,SPK8618SXRH,SPK8618CTRH,SPK8618UPRH
Model Difference	only model name and color are different
Operation Frequency	2402MHz - 2480MHz for BR,BLE; 2405MHz - 2475MHz for 2.4GHz.
Modulation Type	GFSK
Antenna gain	2.71dBi
Antenna Type	Chip Antenna
Sample No	202507070004001
Power Source	DC 3.7V
Battery	Rated Voltage:3.7V Charge Limit Voltage:4.2V Capacity:4000mAh
Hardware Version	V2.0
Software Version	V11.1

#### 1.5. Laboratory Information

<b>Company Name:</b>	Flux Compliance Service Laboratory
<b>Address:</b>	Room 105 Floor Bao hao Technology Building 1 NO.15 Gong ye West Road Hi-Tech Industrial, Song shan lake Dongguan
<b>Telephone:</b>	+86-0769-27280901
<b>Fax:</b>	+86-0769-27280901
FCC Test Firm Registration Number: 514908 Designation number: CN0127 A2LA accreditation number: 5545.01	

## 2. FCC 47CFR §2.1091 Requirement

### 2.1. Test Standards

According to §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.

According to §1.1310 and §2.1093 RF exposure requirement

KDB447498 v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

### 2.2. Requirement

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.<sup>22</sup> The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc.<sup>23</sup>"

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

- $f (\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- 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  $\leq 50 \text{ mm}$  and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5 \text{ mm}$ , a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

### 2.3. MPE Calculation Method

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

### 2.4. Antenna Information

EUT can only use antennas certificated as follows provided by manufacturer;

BR,BLE

Antenna	Model No. of antenna:	Type of antenna:	Gain of the antenna (Max.)	Frequency range:
0	/	Chip Antenna	2.71dBi	2402MHz - 2480MHz

2.4GHz

Antenna	Model No. of antenna:	Type of antenna:	Gain of the antenna (Max.)	Frequency range:
0	/	Chip Antenna	2.71dBi	2405MHz - 2475MHz

### 2.5. Manufacturing Tolerance

Frequency (MHz)	ANT0_2.4GHz (Max Peak)		
	2405	2441	2475
Target (dBm)	-6.66	-8.43	-3.03
Tolerance $\pm$ (dB)	1.0	1.0	1.0

Note:

Maximum power Calculation(dBm) :P=Field strength-95.2

Frequency (MHz)	ANT0_DH5(Peak)		
	2402	2441	2480
Target (dBm)	3.92	3.75	3.01
Tolerance $\pm$ (dB)	1.0	1.0	1.0

Frequency (MHz)	ANT0_LE(Peak)		
	2402	2440	2480
Target (dBm)	3.81	3.65	2.96
Tolerance $\pm$ (dB)	1.0	1.0	1.0

## 2.6. Test Result

Mode	f (MHz)	Antenna Distance (mm)	Max.RF output power (including tune-up tolerance)		SAR Test Exclusion Threshold	SAR Test Exclusion
			dBm	mW		
2.4GHz	2475	5	-2.03	0.63	0.20 <3	Yes
BR	2402	5	4.92	3.10	0.96<3	Yes
BLE	2402	5	4.81	3.03	0.94<3	Yes

Note:

- 1.The Maximum power is less than the limit, complies with the exemption requirements.
- 2.Output power (Peak) including turn-up tolerance.
- 3.The calculated distance is 5mm.
- 4.Simultaneous emission is not supported.

\*\*\*\*\*END OF THE REPORT\*\*\*\*\*