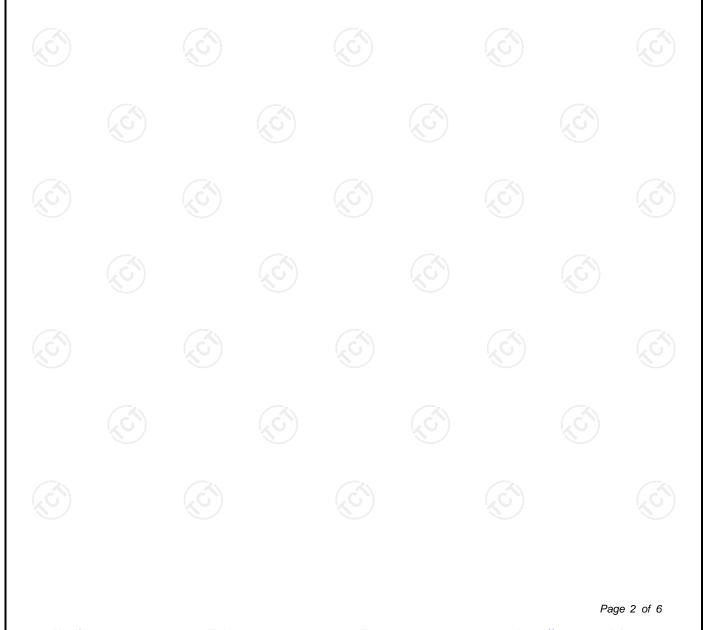
TCT通测检测 TESTING CENTRE TECHNOLOGY								
	TEST REPOR	Τ						
FCC ID :	2A85Y-V83PROM2							
Test Report No:	TCT240910E032							
Date of issue:	Sep. 19, 2024							
Testing laboratory: :	SHENZHEN TONGCE TESTING	S LAB						
Testing location/ address:	2101 & 2201, Zhenchang Factor Subdistrict, Bao'an District, Sher People's Republic of China	y Renshan Industrial Zone, Fuhai Izhen, Guangdong, 518103,						
Applicant's name::	DONGGUAN ESWN TECHNOL	OGY CO., LTD						
Address:	Room106, No.15 chukeng Indus Dongguan City, Guangdong Prov							
Manufacturer's name :	DONGGUAN ESWN TECHNOL	OGY CO., LTD						
Address:	Room106, No.15 chukeng Indus Dongguan City, Guangdong Prov							
Standard(s):	KDB 447498 D01 General RF Ex							
Product Name::	Mechanical Keyboard							
Trade Mark:	N/A							
Model/Type reference :	V83PROM2, MK PRO 75% 3MC	DDE BK, V83Pro-m2						
Rating(s):	Rechargeable Li-ion Battery DC	3.7V						
Date of receipt of test item	Sep. 10, 2024							
Date (s) of performance of test:	Sep. 10, 2024 ~ Sep. 19, 2024							
Tested by (+signature) :	Yannie ZHONG							
Check by (+signature) :	Beryl ZHAO	Boy 2 TCT						
Approved by (+signature):	Tomsin	Tomsitis 3						
· · · · · · · · · · · · · · · · · · ·	oduced except in full, without the	written approval of SHENZHEN						

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1. General Product Information

1.1. EUT description

Product Name:	Mechanical Keyboard			
Model/Type reference:	V83PROM2			
Sample Number	TCT240910E012-0101			
Operation Frequency:	For BLE: 2402MHz~2480MHz For 2.4G: 2402MHz~2480MHz		S.	
Modulation Type:	For BLE: GFSK For 2.4G: GFSK			
Antenna Type:	FPC Antenna	No.		
Antenna Gain:	1.53dBi			
Rating(s):	Rechargeable Li-ion Battery DC	3.7V	$\langle \mathcal{G} \rangle$	

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

No.			N	lodel No.			Test	ed with
1		V83PROM2						
Other mode	els	MK F	PRO 75% 3	MODE BK	, V83Pro-n	า2		
ote: V83PRO layout, or models.		ed model, oth t on the mode						
							Da	ge 3 of 6
Hotline	400-6611	-140 Tol: 8	86-755-27673	230 Ear	86-755-2767	2222 http:	//www.tct-la	-

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2. General Information

2.1. Test environment and mode

ltem		Normal condition							
Temperature		+25°C							
Voltage		DC 3.7V	(C						
Humidity)	56%							
Atmospheric Pressure:	(C)	1008 mbar		(C					
Test Mode:									
Engineering mode:	Keep the EU	JT in continuous transmi	tting by select cha	annel					
mode:	Reep the EC		ting by select one						

2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1	1		1	1
Notes				

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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3. Facilities and Accreditations

3.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC Registration No.: 10668A
- SHENZHEN TONGCE TESTING LAB
- CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

3.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China TEL: +86-755-27673339



4. Test Results and Measurement Data

CT通测检测 TESTING CENTRE TECHNOLOGY

According to KDB 447498 D01 General RF Exposure Guidance v06, 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 guidance.

The 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
 When the minimum test separation distance is < 5 mm, a distance of 5 mm
- according is applied to determine SAR test exclusion.
- The result is rounded to one decimal place for comparison

BLE:

с	hannel	Frequency (GHz)	Max. Power (dBm)	Tune up Power (dBm)	Max. Tune up Power (dBm)	Max. Tune up Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
(CH 39	2.480	0.48	-0.5±1	0.5	1.12	5	0.35	3.0

2.4G TX:

The maximum peak radiation emission for the EUT is 90.25dBuV/m at 3 m with frequency 2480 MHz, EIRP[dBm] = E[dB μ V/m] + 20 log (d[m]) - 104.77 = -4.98dBm.

			1				<u> </u>			
)	Channel	Frequency (GHz)	Max. Power (dBm)	Tune up Power (dBm)	Max. Tune up Power (dBm)	Max. Tune up Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR	
	CH 39	2.480	-4.98	-5.5±1	-4.5	0.35	5	0.11	3.0	

Note: BT/2.4G TX cannot be transmitted simultaneously.

Result:

Base on the calculation value, No SAR measurement is required.

**END OF REPORT