	TEST DEDADT						
	TEST REPORT						
FCC ID	2A85Y-V83MAX						
Test Report No:	TCT240828E043						
Date of issue:	Sep. 14, 2024						
Testing laboratory: :	SHENZHEN TONGCE TESTIN	NG LAB					
Testing location/ address:		2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China					
Applicant's name: :	DONGGUAN ESWN TECHNO	LOGY CO., LTD					
Address::	Room106, No.15 chukeng Indu Dongguan City, Guangdong Pi		ng Town,				
Manufacturer's name :	DONGGUAN ESWN TECHNC	LOGY CO., LTD	6				
Address:	Room106, No.15 chukeng Indu Dongguan City, Guangdong Pi		ng Town,				
Standard(s):	KDB 447498 D01 General RF	Exposure Guidance v	/06				
Product Name:	Mechanical Keyboard						
Trade Mark:	N/A						
Model/Type reference :	V83MAX, V83MAX-PEACH, V	взмах-в					
Rating(s):	Rechargeable Li-ion Battery D	C 3.7V					
Date of receipt of test item :	Aug. 28, 2024						
Date (s) of performance of test:	Aug. 28, 2024 ~ Sep. 14, 2024						
Tested by (+signature) :	Onnado YE	Onnodo Jange					
Check by (+signature) :	Beryl ZHAO	Boy 2 TCT	TING				
Approved by (+signature):	Tomsin	Tomsitis					

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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



1. General Product Information

1.1. EUT description

Product Name:	Mechanical Keyboard		(\mathbf{c})
Model/Type reference:	V83MAX		
Sample Number:	TCT240828E017-0101		
Operation Frequency:	For BT/BLE: 2402MHz~2480MHz For 2.4G: 2402MHz~2479MHz	S)	
Modulation Type:	For BT/BLE: GFSK For 2.4G: GFSK		
Antenna Type:	PCB Antenna		No.
Antenna Gain:	1.58dBi		
Rating(s):	Rechargeable Li-ion Battery DC 3.7V	(\mathbf{c})	

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.		M	lodel No.		Test	ed with
1			V83MAX			\boxtimes
Other models	3	V83MAX-F	PEACH, V8	ЗМАХ-В		
Note: V83MAX is layout, only models.			lerivative mod I color. So the			
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2. General Information

2.1. Test environment and mode

ltem		Normal conditio	n			
Temperature		+25°C				
Voltage	(\mathbf{c})	DC 3.7V	(c			
Humidity		56%				
Atmospheric Pressure:		1008 mbar		(C		
Test Mode:						
Engineering mode:	Keep the EUT in continuous transmitting by select channel					

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
Matai				

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

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

BDR+EDR:

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 78	2.480	1.03	0.5±1	1.5	1.41	5	0.44	3.0

BLE:

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	0.67	0±1	1	1.26	5	0.40	3.0	

2.4G TX:

The maximum peak radiation emission for the EUT is 89.65dBuV/m at 3 m with frequency 2402 MHz, EIRP[dBm] = E[dB μ V/m] + 20 log (d[m]) – 104.77 =-5.58dBm.

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 00	2.402	-5.58	-6±1	-5	0.32	5	0.10	3.0	

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

Result:

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

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*****END OF REPORT*****