TCT 通测检测 TESTING CENTRE TECHNOLOGY

TEST REPORT

FCC ID. ..... :	2AG6O-R427C
Test Report No..... :	TCT230818E012
Date of issue..... :	Aug. 23, 2023
Testing laboratory ..... :	SHENZHEN TONGCE TESTING 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..... :	CONTOUR (GUANGZHOU) DESIGN, INC.
Address..... :	Building B21-2F, Huachuang Animation Park, Panyu, Guangzhou, 511450 China
Manufacturer's name ... :	CONTOUR (GUANGZHOU) DESIGN, INC.
Address..... :	Building B21-2F, Huachuang Animation Park, Panyu, Guangzhou, 511450 China
Standard(s) ..... :	KDB 447498 D01 General RF Exposure Guidance v06
Product Name..... :	Balance Keyboard BK Wireless
Trade Mark ..... :	CONTOUR
Model/Type reference..... :	BALANCE-PN, 102100, 102101, 102102, 102103, 102104, BALANCE-US, BALANCE-UK, BALANCE-DE, BALANCE-FR, BALANCE-NL, BALANCE-CH, BALANCE-PL, BALANCE-RU, BALANCE-GR, BALANCE-BLANK, BALANCE-PN-B
Rating(s)..... :	DC 3V(2*AAA Battery)
Date of receipt of test item ..... :	Aug. 18, 2023
Date (s) of performance of test..... :	Aug. 18, 2023 - Aug. 23, 2023
Tested by (+signature) ... :	Yannie ZHONG
Check by (+signature).... :	Beryl ZHAO
Approved by (+signature):	Tomsin

General disclaimer:

This report shall not be reproduced except in full, without the written approval of SHENZHEN TONGCE TESTING LAB. This document may be altered or revised by SHENZHEN TONGCE TESTING LAB personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

Table of Contents

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.....:	Balance Keyboard BK Wireless
Model/Type reference.....:	BALANCE-PN
Sample Number.....:	TCT230818E011-0101
Operation Frequency.....:	2402MHz - 2480MHz
Modulation Type.....:	GFSK
Antenna Type.....:	PCB Antenna
Antenna Gain.....:	0.67dBi
Rating(s).....:	DC 3V(2*AAA Battery)

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.	Model No.	Tested with
1	BALANCE-PN	☒
Other models	102100, 102101, 102102, 102103, 102104, BALANCE-US, BALANCE-UK, BALANCE-DE, BALANCE-FR, BALANCE-NL, BALANCE-CH, BALANCE-PL, BALANCE-RU, BALANCE-GR, BALANCE-BLANK, BALANCE-PN-B	☐

Note: BALANCE-PN is tested model, other models are derivative models. The models are identical in circuit and PCB layout, different on the model names. So the test data of BALANCE-PN can represent the remaining models.

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

2. General Information

2.1. Test environment and mode

Item	Normal condition
Temperature	+25ºC
Voltage	DC 3V
Humidity	56%
Atmospheric Pressure:	1008 mbar
Test Mode:	
Transmitting 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
/	/	/	/	/

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.

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

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-1

  SHENZHEN TONGCE TESTING LAB

  CAB identifier: CN0031

  The testing lab has been registered by Certification and Engineering Bureau of Industry 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)] · [√f(GHz)] ≤ 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

The maximum peak radiation emission for the EUT is 88.80 dBuV/m at 3 m with frequency 2402 MHz, EIRP[dBm] = E[dBμV/m] + 20 log (d[m]) − 104.77 =-6.43dBm.

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 0	2.402	-6.43	-7±1	-6	0.25	5	0.08	3.0

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

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

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