

	TEST REPOR	Т							
FCC ID:	2AAMA-NK840								
Test Report No:	TCT220621E029	(3)	(C)						
Date of issue::	Jul. 12, 2022								
Testing laboratory:	SHENZHEN TONGCE TESTING	LAB							
Testing location/ address:		2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fi Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China							
Applicant's name::	Shenzhen Newidea Technology	Co., Limited							
Address::	Blg 31, Cuigang Industrial Zone & Bao'an District, Shenzhen, China		g Town,						
Manufacturer's name:	Shenzhen Newidea Technology	Shenzhen Newidea Technology Co., Limited							
Address:	Blg 31, Cuigang Industrial Zone 5, Huaide Road, Fuyong Town, Bao'an District, Shenzhen, China								
Standard(s):	FCC CFR Title 47 Part 1.1307								
Product Name:	2.4G wireless keyboard+Bluetoo	th							
Trade Mark:	N/A								
Model/Type reference:	NK840, K201/K201M								
Rating(s):	Rechargeable Li-ion Battery DC	3.7V							
Date of receipt of test item:	Jun. 21, 2022	(C)							
Date (s) of performance of test:	Jun. 21, 2022 - Jul. 12, 2022								
Tested by (+signature) :	Brews XU	Frens Miss	1						
Check by (+signature):	Beryl ZHAO	Boy Star TCT							
Approved by (+signature):	Tomsin	forms of							

General disclaimer:

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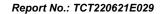




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1. General Product Information

1.1. EUT description

Product Name:	2.4G wireless keyboard+Bluetooth	(,c')	
Model/Type reference:	NK840		
Sample Number:	TCT220621E003-0101		
Operation Frequency:	BLE: 2402MHz~2480MHz 2.4G TX: 2408MHz ~ 2474MHz	(6)	
Modulation Type:	BLE: GFSK 2.4G TX: GFSK		(3)
Antenna Type:	PCB Antenna		
Antenna Gain:	0.11dBi		
Rating(s):	Rechargeable Li-ion Battery DC 3.7V		

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 (NK840	
Other models	K201/K201M	

Note: NK840 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of NK840 can represent the remaining models.





2. General Information

2.1. Test environment and mode

Item	Normal condition							
Temperature	+25°C							
Voltage	DC 3.7V							
Humidity	56%							
Atmospheric Pressure:	1008 mbar							
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	

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.





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 § 15.247(i) and § 1.1307b(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 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:

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	0.47	-0.5±1	0.5	1.12	5	0.35	3.0

2.4G TX:

The maximum peak radiation emission for the EUT is 97.29 dBuV/m at 3 m with frequency 2408 MHz, EIRP[dBm] = E[dBµV/m] + 20 log (d[m]) - 104.77 = 2.06 dBm.

		-							
				Tune	Max.	Max.			exclusion
ı		Fraguenov	Max.	up	Tune	Tune	Test		thresholds
	Channel	Frequency	Power	Power	up	up	distance	Result	
		(GHz)	(dBm)	(dBm)	Power	Power	(mm)		for 1-g
			,	, ,	(dBm)	(mW)	, ,		SAR
ĺ	CH 0	2.408	2.06	2±1	3	2.0	5	0.62	3.0

Result

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

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

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