



## TEST REPORT

**Application No.:** BTEK240425003AE  
**Applicant:** Dongguan Guanrui Electronics Co. Ltd  
**Address of Applicant:** Room 806, Lianhe Building, No. 1 Dongcheng Section Dongcheng Street, Dongguan City, Guangdong Prov, DONG GUAN, China  
**Manufacturer:** Dongguan Guanrui Electronics Co. Ltd  
**Address of Manufacturer:** Room 806, Lianhe Building, No. 1 Dongcheng Section Dongcheng Street, Dongguan City, Guangdong Prov, DONG GUAN, China  
**Factory:** Dongguan Guanrui Electronics Co. Ltd  
**Address of Factory:** Room 806, Lianhe Building, No. 1 Dongcheng Section Dongcheng Street, Dongguan City, Guangdong Prov, DONG GUAN, China  
**Equipment Under Test (EUT):**  
**EUT Name:** OWS  
**Model No.:** G10,O1,O2,O3,O4,O5,O6,O7,O8,O9,O10,O11,O12,O13,O14,O15,O16,O17,O18,O19,O20,O21,O22,O23,O24,O25,O26,O27,O28,O29,O30,O40,O50,O60,O70,O80,O90,O100,O110,O120,O200,O300,O400,O500,O600,O700,O800,G11,G12,G13,G14,G15,G16,G17,G18,G19,G20,G30,G50,G60,G70,G80  
Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.  
**Trade Mark:** N/A  
**Standard(s) :** 47 CFR Part 2 Subpart J Section 2.1093  
**Date of Receipt:** 2024-04-25  
**Date of Test:** 2024-04-25 to 2024-05-10  
**Date of Issue:** 2024-05-11

**Test Result:**


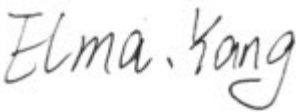
**Pass\***

\* In the configuration tested, the EUT complied with the standards specified above.

Lion Cai  
EMC Laboratory Manager



Revision Record				
Version	Chapter	Date	Modifier	Remark
V0		2024-05-11		Original

Authorized for issue by			
			
		David Zhuang/Project Engineer	
			
		Elma Yang/Reviewer	



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## General Information

### 3.1 Details of E.U.T.

Power supply:	3.7V by Battery
Cable(s):	/
Frequency Range:	2402MHz to 2480MHz
Bluetooth Version:	V5.0
For BT	
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Hopping Channel Type:	Adaptive Frequency Hopping systems
Modulation Type:	GFSK, $\pi/4$ DQPSK
Number of Channels:	79
Sample Type:	Portable device
Antenna Type:	Ceramic antenna
Antenna Gain:	2.78 dBi
Hardware Version	G10-V1.1
Software and Firmware Version	V1.1
Sample No.:	BTEK240425003AE-01
For BLE	
Modulation Type:	GFSK
Number of Channels:	40
Antenna Type:	Ceramic antenna
Antenna Gain:	2.78 dBi
Hardware Version	G10-V1.1
Software and Firmware Version	V1.1
Sample No.:	BTEK240425003AE-01
Remark: The information in this section is provided by the applicant or manufacturer, BANTEK is not liable to the accuracy, suitability, reliability or/and integrity of the information.	

Model No.: O1,O2,O3,O4,O5,O6,O7,O8,O9,O10,O11,O12,O13,O14,O15,O16,O17,O18,O19,O20,O21,O22,O23,O24,O25,O26,O27,O28,O29,O30,O40,O50,O60,O70,O80,O90,O100,O110,O120,O200,O300,O400,O500,O600,O700,O800,G11,G12,G13,G14,G15,G16,G17,G18,G19,G20,G30,G50,G60,G70,G80

Only the model G10 was tested. According to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions of other models are identical for the above models, with only difference on Model No.

### 3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
/	/	/	/





### 3.3 Test Location

All tests were performed at:

Shenzhen BANTEK Testing Co., Ltd.,

A5&A6, Building B1&B2, No.45 Gangtou Road, Bogang Community, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518103

Tel:0755-2334 4200

Fax: 0755-2334 4200

FCC Registration Number: 264293

Designation Number: CN1356

No tests were sub-contracted.

### 3.4 Deviation from Standards

None

### 3.5 Abnormalities from Standard Conditions

None



## 4 Test Requirement

KDB447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(b)

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})} \leq 3.0$

Where

-f(GHz) is the RF channel transmit frequency in GHz

-Power and distance are rounded to the nearest mW and mm before calculation

-The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

### 4.1 Assessment Result

☒ Passed ☐ Not Applicable

Type	Frequency (MHz)	Conducted Power (dBm)	Maximum Tune-up (dBm)	Calculating data	Limit	Result
BT Classic	2441	5.29	5.50	1.11	3.0	Pass
BLE	2440	4.86	5.00	0.98	3.0	Pass

Note: The exposure evaluation safety distance is 5mm.

- End of the Report -

