Report No.: BTEK240425003AE003
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FCC ID: 2BGEL-G10

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 **David Zhuang/Project Engineer**		
		Elma.Yang **Elma Yang/Reviewer**		

2 Contents

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, π/4DQPSK
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)

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [√f(GHz)] ≤ 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 ≤ 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.

4.1Assessment 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 -