



RF EXPOSURE REPORT

Applicant	:	Guangzhou Chuangrui Vehicle Devices Ltd.,co.
Address of Applicant	:	NO.8 Shenshan East Road Baiyun District, Guangzhou, P.R.C
Manufacturer	:	Guangzhou Chuangrui Vehicle Devices Ltd.,co.
Address of Manufacturer	:	NO.8 Shenshan East Road Baiyun District, Guangzhou, P.R.C
Equipment under Test	:	Meter
Model No.	:	5GY0-MMS-00
FCC ID	:	2BTEP-5GY0MMS00
Test Standard(s)	:	KDB447498 D01 General RF Exposure Guidance v06
Report No.	:	DDT-RE25072428-1E14
Issue Date	:	2026/01/14
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

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Test Report Declare

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Test Standard Used:
KDB447498 D01 General RF Exposure Guidance v06

We Declare:
The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE25072428-1E14		
Date of Receipt:	2025/07/31	Date of Test:	2025/07/31 - 2026/01/13

Created: Jacky Huang	Reviewed: Johnson Huang	Approved: Ella Gong
		
2026/01/12	2026/01/13	2026/01/14

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Version	Revision Content	Issue Date	Approved
V0	Initial issue	2026/01/14	Ella Gong

1. General Test Information

1.1. Description of EUT

EUT Name	:	Meter
Model Number	:	5GY0-MMS-00
EUT Function Description	:	Please reference user manual of this device
Power Supply	:	DC 12V
Bluetooth 1		
Antenna Type	:	FPC antenna
Max Antenna Gain (dBi)	:	4.12
Radio Specification	:	Bluetooth BR/EDR/LE
Operation Frequency	:	2402 MHz to 2480 MHz
Modulation	:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Bluetooth 2		
Antenna Type	:	PCB antenna
Max Antenna Gain (dBi)	:	4.13
Radio Specification	:	Bluetooth BR/EDR/LE
Operation Frequency	:	2402 MHz to 2480 MHz
WIFI		
Radio Specification	:	IEEE 802.11b/g/n/a/ac
Operation Frequency	:	2.4G band: IEEE 802.11b: 2412MHz to 2462MHz IEEE 802.11g: 2412MHz to 2462MHz IEEE 802.11n20: 2412MHz to 2462MHz IEEE 802.11n40: 2422MHz to 2452MHz 5.8G band: 5745 MHz to 5825 MHz
	:	
Modulation	:	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Type	:	FPC antenna
Max Antenna Gain (dBi)	:	2.4G band: 4.12 5.8G band: 7.07

Note: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual.

1.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
/	/	/	/

1.3. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20240, G-20118

2. RF Exposure evaluation for FCC

2.1. Assessment procedure

Requirement:

Systems operating under the provisions of FCC 47 CFR 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 guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100000			1.0	30

Note: f= frequency in MHz; *Plane-wave equivalent power density

Calculation method

$$E(\text{V/m}) = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } S(\text{mW/cm}^2) = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak RF output power (mW)

G = EUT Antenna numeric gain (numeric)=

d = Separation distance between radiator and human body (m)

The formula can be changed to

We can change the formula to:

$$S = \frac{30 \times P \times G}{377 \times d^2} \quad \text{or, } d = \sqrt{\frac{30 \times P \times G}{377 \times S}}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2 m, as well as the gain of the used antenna, the RF power density can be obtained.

2.2. Assess result

Mode	Output power (dBm)	Tune up power (dBm)	Tune up power (mW)	Antenna Gain (dBi)	Antenna Gain (linear)	MPE Values (mW/cm ²)	MPE Limit (mW/cm ²)
BR/EDR1	6.01	7.00	5.01	4.12	2.582	0.0026	1
BR/EDR2	12.26	13.00	19.95	4.13	2.588	0.0103	1
BLE1	-2.50	-1.00	0.79	4.12	2.582	0.0004	1
BLE2	4.16	5.00	3.16	4.13	2.588	0.0016	1
2.4G WiFi	12.84	14.00	25.12	4.12	2.582	0.0129	1
5.8G WiFi	18.59	20.00	100.00	7.07	5.093	0.1013	1

Simultaneous transmit evaluation worst result: $BT1+BT2+WIFI=0.0103+0.0016+0.1013=0.1132<1$.

Note:

1. The estimation distance is 20 cm
2. Product does not support 2.4G WIFI and 5.8G WIFI are transmitting simultaneously.
3. The assess distance is 20cm.

Conclusion: MPE evaluation required since transmitter power is below FCC threshold

-----End Report-----