

# TEST REPORT

Applicant Name : GDU-Tech Co., Ltd.  
Address : Building 2, No.5, Huanglongshan South Road, Donghu New Technology Development Zone, Wuhan, China 430074  
Report Number : 2504Q43921E  
FCC ID: 2A8WC-A4G-200A

## Test Standard (s)

47 CFR §1.1307& §2.1091

## Sample Description

Product Type: 4G Cellular Dongle  
Model No.: A4G-200A  
Trade Mark: N/A  
Date Received: 2025-02-13  
Report Date: 2025-06-24

Test Result:	The EUT complied with the standards above.
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## Prepared and Checked By:

Ronour Huang

Ronour Huang  
EMC Engineer

## Approved By:

Bob. Liao

Bob Liao  
EMC Engineer

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## Shenzhen Accurate Technology Co., Ltd.

Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Tel: +86 755-26503290

Web: [www.atc-lab.com](http://www.atc-lab.com)

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## DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2504Q43921E	Original Report	2025-06-24

## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

Product	4G Cellular Dongle
Tested Model	A4G-200A
Frequency Range <sup>#</sup>	LTE Band 2: 1850-1910MHz(TX), 1930-1990MHz(RX) LTE Band 4: 1710-1755MHz(TX), 2110-2155MHz(RX) LTE Band 5: 824-849MHz(TX), 869-894MHz(RX) LTE Band 12: 699-716MHz(TX), 729-746MHz(RX) LTE Band 13: 777-787MHz(TX), 746-756MHz(RX) LTE Band 25: 1850-1915MHz(TX), 1930-1995MHz(RX) LTE Band 26: 814-849MHz(TX), 859-894MHz(RX) LTE Band 41: 2496-2690MHz(TX), 2496-2690MHz(RX) LTE Band 66: 1710-1780MHz(TX), 2110-2200MHz(RX)
Voltage Range <sup>#</sup>	DC 14.4V
Sample Serial Number	2YCE-1 (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition

### Objective

This test report is in accordance with Part 1-Subpart I and Part 2-Subpart J, Radiofrequency Radiation Exposure of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with §1.1307 & §2.1091 rules.

### Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Accredited by American Association for Laboratory Accreditation (A2LA). The Certificate Number is 4297.01.

## MAXIMUM PERMISSIBLE EXPOSURE (MPE)

### Applicable Standard

According to subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

#### Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (Minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

f = frequency in MHz

\* = Plane-wave equivalent power density

### Result

#### Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

S = power density (in appropriate units, e.g. mW/cm<sup>2</sup>)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

## Test result

For worst case:

Band	Frequency Range (MHz)	Maximum Conducted Output Power <sup>#</sup> (dBm)	Tune-Up Conducted Output Power <sup>#</sup> (dBm)	Antenna Gain <sup>#</sup>		ERP		Evaluation Distance (cm)	Power Density (mW/cm <sup>2</sup> )	MPE-Based Exemption (mW)
				(dBi)	(dBd)	(dBm)	(W)			
LTE B5	824-849	25.30	25.8	1.84	1.53	27.33	0.54	20	0.103	0.55
LTE B12	699-716	24.35	25.0	-4.14	0.39	25.39	0.35	20	0.021	0.47
LTE B13	777-787	22.06	22.5	1.6	1.45	23.95	0.25	20	0.051	0.52
LTE B26	814-849	24.16	24.8	2.1	1.62	26.42	0.44	20	0.097	0.54

Band	Frequency Range (MHz)	Maximum Conducted Output Power <sup>#</sup> (dBm)	Tune-Up Conducted Output Power <sup>#</sup> (dBm)	Antenna Gain <sup>#</sup>		EIRP		Evaluation Distance (cm)	Power Density (mW/cm <sup>2</sup> )	MPE-Based Exemption (mW)
				(dBi)	(dBd)	(dBm)	(W)			
LTE B2	1850-1910	23.20	23.8	-0.36	0.92	23.44	0.22	20	0.038	1.0
LTE B4	1710-1755	23.67	24.2	1.58	1.44	25.78	0.38	20	0.067	1.0
LTE B25	1850-1915	23.46	24.0	-0.36	0.92	23.64	0.23	20	0.046	1.0
LTE B41	2496-2690	23.16	23.8	6.25	4.22	30.05	1.01	20	0.201	1.0
LTE B66	1710-1780	23.08	23.6	1.58	1.44	25.18	0.33	20	0.066	1.0

Note 1: The maximum conducted output power quotes from the module report: STS2111044W01<sup>#</sup>.

Note 2: The tune-up power and antenna gain are declared by the applicant.

Note 3: 0dBd=2.15dBi.

Note 4: ERP=Tune-up Power(dBm) + Antenna Gain(dBd)

Note 5: EIRP=Tune-up Power(dBm) + Antenna Gain(dBi)

Note 6: This device has a fixed matching product (FCC ID: 2A8WC-S220PRO).

So the simultaneous transmitting consideration (worst case):

The ratio= LTE B41/Limit +  $\sum$ MPE<sup>#</sup> = 0.201/1.0 + 0.028/1.0 =0.229<1.0

( $\sum$ MPE is cited on page 9 of report Maximum Permissible Exposure Report(FCC ID: 2A8WC-S220PRO).)

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

**Result: Compliance.**

## **EXHIBIT A-EUT PHOTOGRAPHS**

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Please refer to the Annex: 2504Q43921E-EM EUT EXTERNAL PHOTOGRAPHS and 2504Q43921E-EM EUT INTERNAL PHOTOGRAPHS.

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