No. 23T04Z80809-03

for

Baicells Technologies Co., Ltd.

Aurora6449m

Model Name: BSC7261A249D

FCC ID: 2AG32BSC7261A249D

with

Hardware Version: VerA

Software Version: BaiBNW_2.6

Issued Date: 2024-03-21

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

CTTL, Telecommunication Technology Labs, Academy of Telecommunication Research, MIIT

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REPORT HISTORY

Report Number	Revision	Issue Date	Description
23T04Z80809-03	Rev.0	2024-03-21	Initial creation of test report

CONTENTS

1. Test Laboratory

1.1. Testing Location

Company Name:	CTTL
Address:	No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191.
Postal Code:	100191
Telephone:	00861062304633
Fax:	00861062304793

1.2. Testing Environment

Normal Temperature:	15-35℃
Relative Humidity:	20-75%

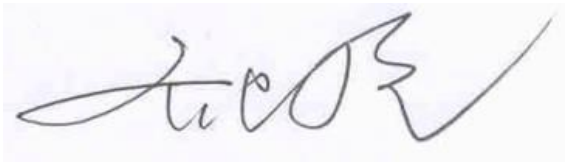
1.3. Project data

Project Leader:	Lin Hao
Testing Start Date:	2024-03-21
Testing End Date:	2024-03-21

1.4. Signature

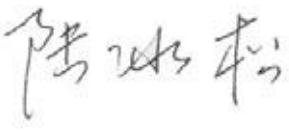
Yao Juming

(Prepared this test report)



Qi Dianyuan

(Reviewed this test report)



Lu Bingsong

Deputy Director of the laboratory

(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name:	Baicells Technologies Co., Ltd.
Address /Post:	9-10F,1stBldg.,No.81BeiqingRoad,Haidian District,Beijing,China
Contact:	Back Huang
Email:	contact@Baicells.com
Telephone:	400-108-0167
Fax:	/

2.2. Manufacturer Information

Company Name:	Baicells Technologies Co., Ltd.
Address /Post:	9-10F,1stBldg.,No.81BeiqingRoad,Haidian District,Beijing,China
Contact:	Back Huang
Email:	contact@Baicells.com
Telephone:	400-108-0167
Fax:	/

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Aurora6449m
Model name	BSC7261A249D
Operation mode	n261

3.2. Internal Identification of EUT

EUT ID*	IMEI	HW Version	SW Version
EUT1	/	VerA	BaiBNW_2.6

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE

AE ID*	**Description**	**SN**
AE1	/	/

*AE ID: is used to identify the test sample in the lab internally.

4. Reference Documents

4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

KDB 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies

Canadian RSS-102： Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)

Standard for uncontrolled environment requires the RF-exposure value in W/m2 unit, therefore the MPE limit value determined in mW/cm2 unit, should be multiplied by 10 to have the required unit. The MPE limits are the same like on FCC § 1.1301 at table 1.

5. RF Exposure Limit

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	**($180/f^2$)***	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

Friis transmission formula: $P_d = \frac{P_{out} * G}{4 * \Pi * r^2}$

where

P_d =power density (mW/cm^2)
P_{out} = output power to antenna (mW)
G = gain of antenna (linear scale)
r = distance between antenna and observation point (cm)

6. Classification

The antenna of this product, under normal use condition, is at least 100cm away from the body of the user. So, this device is classified as Mobile Device.

7. Test Results

7.1. The maximum antenna gain

The maximum gain for each frequency band is:

Frequency band	Antenna gain
n261	22

7.2. The maximum rated power limits

Maximum peak output power for antenna:

Frequency band	Maximum Rated Power (dBm)
n261	26.29

7.3. Output Power Into Antenna & RF Exposure value at distance 20cm

The worst cases conducted output power for every frequency band is:

According above test result, the device complies with the exposure requirements.

Frequency band	Maximum Rated Power (dBm)	Maximum Rated Power (mW)	Antenna gain (dBi)	d (cm)	Calculation (mW/cm^2)	Limit (mW/cm^2)
n261	26.29	425.598	22	100	0.537	1.000

8. Simultaneous Transmission

N/A

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