





TEST REPORT No. 123Z60839-WMD05

for

TCL Communication Ltd.

GSM/UMTS/LTE/NR Mobile phone

Model Name: T609L

FCC ID: 2ACCJH168

with

Hardware Version: 04

Software Version: WES0

Issued Date: 2023-05-24

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.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S.Government.

Test Laboratory:

CTTL, Telecommunication Technology Labs, CAICT

No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191.

Tel: +86(0)10-62304633-2512, Fax: +86(0)10-62304633-2504

Email: cttl_terminals@caict.ac.cn, website: www.caict.ac.cn





REPORT HISTORY

Report Number	Revision	Description	Issue Date
I23Z60839-WMD05	Rev.0	1 st edition	2023-05-24

Note: the latest revision of the test report supersedes all previous version.





CONTENTS

1.	TEST LABORATORY	4
1.1.	INTRODUCTION & ACCREDITATION	4
1.2.	TESTING LOCATION	4
1.3.	TESTING ENVIRONMENT	5
1.4.	PROJECT DATA	5
1.5.	SIGNATURE	5
2.	CLIENT INFORMATION	6
2.1.	APPLICANT INFORMATION	6
2.2.	MANUFACTURER INFORMATION	6
3.	EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE)	7
3.1.	ABOUT EUT	7
3.2.	INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST	7
3.3.	INTERNAL IDENTIFICATION OF AE USED DURING THE TEST	7
4.	REFERENCE DOCUMENTS	8
4.1.	DOCUMENTS SUPPLIED BY APPLICANT	8
4.2.	REFERENCE DOCUMENTS FOR TESTING	8
5.	SUMMARY OF TEST RESULT	9
6.	TEST EQUIPMENT UTILIZED 1	0
ANI	NEX A: MEASUREMENT RESULTS1	1
A	.1 END USER DEVICE ADDITIONAL REQUIREMENT (CBSD PROTOCOL)1	1
ANN	NEX B: ACCREDITATION CERTIFICATE1	4





1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2017 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0 and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (ISED#: 24849). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

Location 1: CTTL (huayuan North Road)

Address:

No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191





1.3. <u>Testing Environment</u>

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

1.4. Project Data

Testing Start Date:	2023-05-19
Testing End Date:	2023-05-19

1.5. Signature

Dong Yuan (Prepared this test report)

店

Zhou Yu (Reviewed this test report)

赵慧麟

Zhao Hui Lin Deputy Director of the laboratory (Approved this test report)





2. Client Information

2.1. Applicant Information

Company Name:	TCL Communication Ltd.
Address /Post:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Contact:	Annie Jiang
Email:	nianxiang.jiang@tcl.com
Telephone:	+86 755 3661 1621
Fax:	+86 755 3661 2000-81722

2.2. Manufacturer Information

Company Name:	TCL Communication Ltd.
Address /Post:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
Address /Post.	Park, Shatin, NT, Hong Kong
Contact:	Annie Jiang
Email:	nianxiang.jiang@tcl.com
Telephone:	+86 755 3661 1621
Fax:	+86 755 3661 2000-81722





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

3.1. About EUT	
Description	GSM/UMTS/LTE/NR Mobile phone
Model Name	T609L
FCC ID	2ACCJH168
Antenna	Embedded
Extreme vol. Limits	3.6VDC to 4.4VDC (nominal: 3.85VDC)
Extreme temp. Tolerance	-10°C to +55°C
Note: Components list, ple	ease refer to documents of the manufacturer; it is also included in the
original test record of CTTL	

3.2. <u>Inte</u>	3.2. Internal Identification of EUT used during the test				
EUT ID*	IMEI	HW Version	SW Version	Date of receipt	
UT22a	016447000002381	04	WES0	2023-05-04	
*EUT ID: is used to identify the test sample in the lab internally.					

3.3. Internal Identification of AE used during the test

AE ID*	Description	
AE1	Battery	
AE1		
Model		TLp048D7
Manufact	turer	VEKEN
Capacita	nce	5000mAh
*AE ID: is u	ised to identify t	he test sample in the lab internally.





4. <u>Reference Documents</u>

4.1. Documents supplied by applicant

EUT parameters are supplied by the customer, which are the bases of testing. CAICT is not responsible for the accuracy of customer supplied technical information that may affect the test results (for example, antenna gain and loss of customer supplied cable).

4.2. Reference Documents for testing

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

Reference	Title	Version
FCC Part 96	CITIZENS BROADBAND RADIO SERVICE	10-1-21
		Edition
KDB 940660 D01	CERTIFICATION AND TEST PROCEDURES FOR	v03
	CITIZENS BROADBAND RADIO SERVICE DEVICES	
	AUTHORIZED UNDER PART 96	
WINNF-TS-0122	Test and Certification for Citizens Broadband Radio Service	v1.0.2
	(CBRS); Conformance and Performance Test Technical	
	Specification; CBSD/DP as Unit Under Test (UUT)	

Note: WINNF-TS-0122 is not in the scope of ISO 17025 accreditation by NVLAP.





5. Summary Of Test Result

n48

Items	Test Name	Clause in FCC rules	Verdict
1	End User Device Additional	96.47	P
	Requirement (CBSD Protocol)	00.47	I

Terms used in Verdict column

Р	Pass. The EUT complies with the essential requirements in the standard.	
NP	Not Performed. The test was not performed by CTTL.	
NA	Not Applicable.The test was not applicable.	
BR	Re-use test data from basic model report.	
F	Fail. The EUT does not comply with the essential requirements in the	
	standard.	

All the test results are based on normal power. n48 is tested by power class 3.

NR modulation: DFT-s-OFDM pi/2 BPSK; QPSK; 16QAM; 64QAM; 256QAM CP-OFDM QPSK; 16QAM; 64QAM; 256QAM NR BW: 10/15/20/40/50/60/70/80/90/100MHz for n48





6. Test Equipment Utilized

Description	Туре	Series Number	Manufacture	Cal Due Date	Calibration Interval
Signal&Spectrum Analyzer	FSW	104038	R&S	2023-06-20	1 year





Annex A: Measurement Results

A.1 End User Device Additional Requirement (CBSD Protocol)

A.1.1 Measurement Limit

End user device additional requirements (CBSD Protocol) are tested per the test procedures listed below.

End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation. An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

A.1.2 Measurement Method

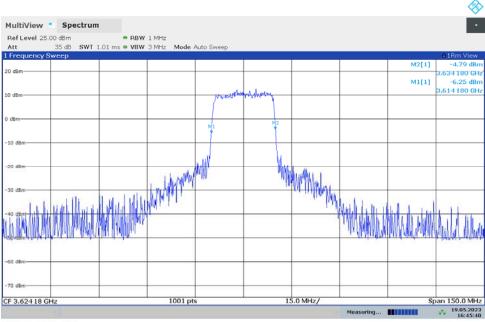
The EUT was connected via an RF cable to a certified CBSD and spectrum analyzer. During testing, the EUT is connected to a certified CBSD (Baicells BSC7048A243 FCC ID: 2AG32 BSC7048A243) as a companion device to show compliance with Part 96.47.

- 1. Run#1:
- a. Setup frequency with 3614.18MHz 3634.18MHz.
- b. Check EUT Tx frequency.
- c. Disable AP service and check EUT stop transmission within 10s.
- 2. Run#2:
- a. Setup frequency with 3659.18MHz 3679.18MHz.
- b. Check EUT Tx frequency.
- c. Disable AP service and check EUT stop transmission within 10s.





RUN#1:



16:45:40 19.05.2023



16:53:01 1

Note:

Marker 1: CBSD sends instructions to discontinue NR operations.

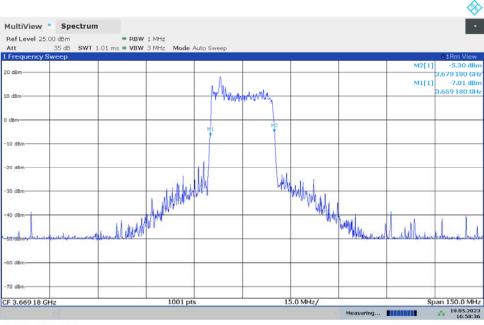
Marker 2: EUT discontinues operation.

Marker 3: 10 seconds elapsed time from CBSD sending instructions to EUT.

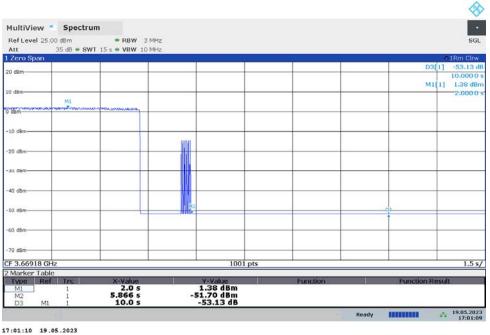




RUN#2:



16:58:37 19.05.2023



17:01:10 19

Note:

Marker 1: CBSD sends instructions to discontinue NR operations.

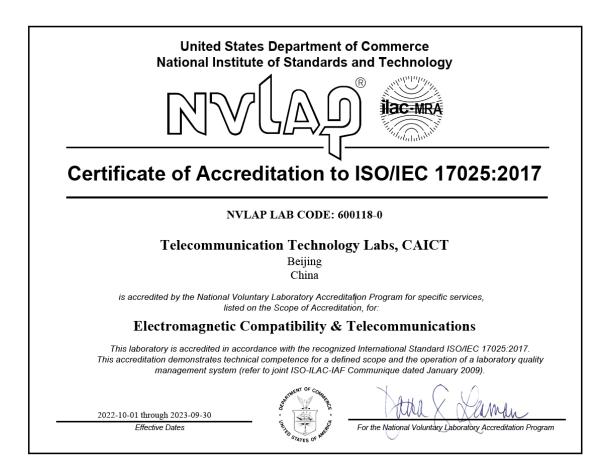
Marker 2: EUT discontinues operation.

Marker 3: 10 seconds elapsed time from CBSD sending instructions to EUT





Annex B: Accreditation Certificate



END OF REPORT