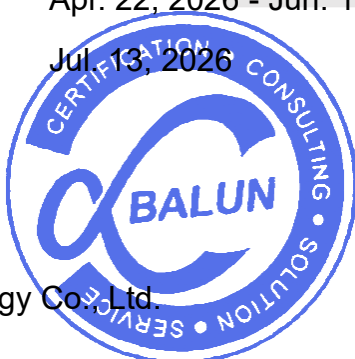


TEST REPORT

Applicant: TCL Communication Ltd.
Address: 5/F, Building 22E, 22 Science Park East Avenue,
Hong Kong Science Park, Shatin, NT, Hong Kong
Equipment Type: Tablet PC
Model Name: 8289S
Brand Name: TCL
FCC ID: 2ACCJB250
Test Standard: 47 CFR Part 2
(Others refer to chapter 3.1)
Sample Arrival Date: Apr. 17, 2026
Test Date: Apr. 22, 2026 - Jun. 16, 2026
Date of Issue: Jul. 13, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Zheng Ziyi**Checked by:** Lu Jiamin**Approved by:** Liao Jianming
(Technical Director)

Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Jul. 10, 2026</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Jul. 13, 2026</u>	<u>Clarified descriptions in Section 3.2.</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	601, Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen, Guangdong
	☒ 1/F., Building B, Ganghongji High-Tech Intelligent Industrial Park, No.1008, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	TCL Communication Ltd.
Address	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong

2.2 Manufacturer Information

Manufacturer	TCL Communication Ltd.
Address	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong

2.3 General Description for Equipment under Test (EUT)

EUT Name	Tablet PC
Model Name Under Test	8289S
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

All Network and Wireless connectivity for EUT	2G Network GPRS/EDGE 850/900/1800/1900 3G Network WCDMA/HSDPA/HSUPA/DC-HSDPA/HSPA+ Band 1/2/4/5/8 4G Network LTE FDD Band 1/2/3/4/5/7/8/12/13/14/17/20/25/26/28/29/30/66/71 LTE TDD Band 39/40/41/48 LTE CA Uplink (UL): CA_41C, CA_66C, CA_2A-4A, CA_2A-5A, CA_2A-12A, CA_2A-13A, CA_2A-66A, CA_5A-66A, CA_12A-66A, CA_13A-66A, CA_14A-66A 5G Network SA: NR n2/5/12/14/25/30/41/48/66/71/77/78 NSA(EN-DC): DC_13A_n2A, DC_13A_n66A, DC_2A_n5A, DC_5A_n2A, DC_5A_n66A, DC_66A_n2A, DC_66A_n5A, DC_13A_n77A, DC_2A_n77A, DC_5A_n77A, DC_2A_n66A, DC_66A_n77A, DC_66A_n71A, DC_2A_n71A, DC_66A_n25A, DC_2A_n41A, DC_66A_n41A, DC_30A_n5A, DC_12A_n66A, DC_30A_n66A, DC_12A_n2A, DC_30A_n2A, DC_2A_n30A, DC_5A_n30A, DC_12A_n30A, DC_14A_n30A, DC_66A_n30A, DC_66A_n66A, DC_2A_n2A, DC_30A_n77A, DC_12A_n77A, DC_14A_n77A, DC_14A_n66A, DC_14A_n2A, DC_5A_n78A, DC_7A_n78A, DC_7A_n77A, DC_7A_n66A Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40), 802.11ac(VHT20/40/80)
About the Product	The equipment is Tablet PC, intended for used with information technology equipment.
Note 1: The EUT is a Tablet PC, supporting dual SIM card slots under the same transceiver. Both SIM card slots support GSM, WCDMA, LTE and NR. And both SIM card slots share the same transceiver, so only SIM1 is tested in this report.	

The following is the technical information of the EUT tested frequency bands in this report.

Operating Bands	GPRS/EDGE 850/1900 WCDMA/HSDPA/HSUPA/DC-HSDPA/HSPA+ Band 2/4/5 LTE FDD Band 2/4/5/7/12/13/14/17/25/26/30/66/71 LTE TDD Band 41/48 LTE CA Uplink (UL): CA_41C, CA_66C, CA_2A-4A, CA_2A-5A, CA_2A-12A, CA_2A-13A, CA_2A-66A, CA_5A-66A, CA_12A-66A, CA_13A-66A, CA_14A-66A SA: NR n2/5/12/14/25/30/41/48/66/71/77/78 NSA(EN-DC): DC_13A_n2A, DC_13A_n66A, DC_2A_n5A, DC_5A_n2A, DC_5A_n66A, DC_66A_n2A, DC_66A_n5A, DC_13A_n77A, DC_2A_n77A, DC_5A_n77A, DC_2A_n66A, DC_66A_n77A, DC_66A_n71A, DC_2A_n71A, DC_66A_n25A, DC_2A_n41A, DC_66A_n41A, DC_30A_n5A, DC_12A_n66A, DC_30A_n66A, DC_12A_n2A, DC_30A_n2A, DC_2A_n30A, DC_5A_n30A, DC_12A_n30A, DC_14A_n30A, DC_66A_n30A, DC_66A_n66A, DC_2A_n2A, DC_30A_n77A, DC_12A_n77A, DC_14A_n77A, DC_14A_n66A, DC_14A_n2A, DC_5A_n78A, DC_7A_n78A, DC_7A_n77A, DC_7A_n66A	
Modulation Type	LTE	QPSK
		16QAM
		64QAM
		256QAM
	NR	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM
		DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM
Antenna Type	Integrated antenna	
Antenna Gain	GPRS/EGPRS 850: -1.3 dBi GPRS/EGPRS 1900: -1.6 dBi WCDMA/HSDPA/HSUPA Band 2: -0.9 dBi WCDMA/HSDPA/HSUPA Band 4: -0.23 dBi WCDMA/HSDPA/HSUPA Band 5: -1.3 dBi FDD LTE Band 2: -0.9 dBi FDD LTE Band 4: -0.23 dBi FDD LTE Band 5: -1.3 dBi FDD LTE Band 7: -1.3 dBi FDD LTE Band 12: -3.1 dBi FDD LTE Band 13: -2.3 dBi FDD LTE Band 14: -2.6dBi FDD LTE Band 17: -3.1 dBi FDD LTE Band 25: -0.9 dBi FDD LTE Band 26: -1.3 dBi FDD LTE Band 66: -0.23 dBi	

	FDD LTE Band 71: -2.9 dBi FDD LTE Band 30: -2.5 dBi TDD LTE Band 41: -1.2 dBi TDD LTE Band 48: -1.2 dBi FDD NR Band n2: -0.9 dBi FDD NR Band n5: -1.3 dBi FDD NR Band n12: -3.1 dBi FDD NR Band n14: -2.6 dBi FDD NR Band n25: -0.9 dBi FDD NR Band n30: -2.5 dBi TDD NR Band n41: -1.3 dBi TDD NR Band n48: -1.2 dBi FDD NR Band n66: -0.23 dBi FDD NR Band n71: -2.9 dBi TDD NR Band n77: -1.2 dBi TDD NR Band n78: -1.2 dBi
The Max RF Output Power (EIRP/ERP)	GPRS/EGPRS 850: 29.31 dBm GPRS/EGPRS 1900: 27.81 dBm WCDMA/HSDPA/HSUPA Band 2: 22.28 dBm WCDMA/HSDPA/HSUPA Band 4: 22.94 dBm WCDMA/HSDPA/HSUPA Band 5: 19.70 dBm FDD LTE Band 2: Cover by LTE Band 25 FDD LTE Band 4: Cover by LTE Band 66 FDD LTE Band 5: Cover by LTE Band 26(Part22) FDD LTE Band 7: 22.00 dBm FDD LTE Band 12: 17.66 dBm FDD LTE Band 13: 19.58 dBm FDD LTE Band 14: 19.04 dBm FDD LTE Band 17: Cover by LTE Band 12 FDD LTE Band 25: 23.37 dBm FDD LTE Band 26(Part90): 20.11 dBm FDD LTE Band 26(Part22): 20.13 dBm FDD LTE Band 66: 23.85 dBm FDD LTE Band 71: 18.57 dBm FDD LTE Band 30: 20.75 dBm TDD LTE Band 41: 25.09 dBm TDD LTE Band 48: 22.47 dBm FDD NR Band n2: Cover by NR Band n25 FDD NR Band n5: 20.65 dBm FDD NR Band n12: 17.75 dBm FDD NR Band n14: 19.05 dBm FDD NR Band n25: 23.53 dBm FDD NR Band n30: 20.49 dBm TDD NR Band n41: 23.46 dBm

	TDD NR Band n48: 21.77 dBm FDD NR Band n66: 22.19 dBm FDD NR Band n71: 18.07 dBm TDD NR Band n77: 21.74 dBm TDD NR Band n78: Cover by NR Band n77	
Band	Tx Frequency Range	Rx Frequency Range
GSM850	824 MHz ~ 849 MHz	869 MHz ~ 894 MHz
GSM1900	1850 MHz ~ 1910 MHz	1930 MHz ~ 1990 MHz
WCDMA B2	1850 MHz ~ 1910 MHz	1930 MHz ~ 1990 MHz
WCDMA B4	1710 MHz ~ 1755 MHz	2110 MHz ~ 2155 MHz
WCDMA B5	824 MHz ~ 849 MHz	869 MHz ~ 894 MHz
LTE B2	1850 MHz ~ 1910 MHz	1930 MHz ~ 1990 MHz
LTE B4	1710 MHz ~ 1755 MHz	2110 MHz ~ 2155 MHz
LTE B5	824 MHz ~ 849 MHz	869 MHz ~ 894 MHz
LTE B7	2500 MHz ~ 2570 MHz	2620 MHz ~ 2690 MHz
LTE B12	699 MHz ~ 716 MHz	729 MHz ~ 746 MHz
LTE B13	777 ~ 787 MHz	746 ~ 756 MHz
LTE B14	788 ~ 798 MHz	758 ~ 768 MHz
LTE B17	704 MHz ~ 716 MHz	734 MHz ~ 746 MHz
LTE B25	1850 MHz ~ 1915 MHz	1930 MHz ~ 1995 MHz
LTE B26	814 MHz ~ 824 MHz	859 MHz ~ 869 MHz
	824 MHz ~ 849 MHz	869 MHz ~ 894 MHz
LTE B30	2305 ~ 2315 MHz	2350 ~ 2360 MHz
LTE B41	2496 MHz ~ 2690 MHz	2496 MHz ~ 2690 MHz
LTE B48	3550 ~ 3700 MHz	3550 ~ 3700 MHz
LTE B66	1710 MHz ~ 1780 MHz	2110 MHz ~ 2200 MHz
LTE B71	663 MHz ~ 698 MHz	617 MHz ~ 652 MHz
NR n2	1850 MHz ~ 1910 MHz	1930 MHz ~ 1990 MHz
NR n5	824 MHz ~ 849 MHz	869 MHz ~ 894 MHz
NR n12	699 MHz ~ 716 MHz	729 MHz ~ 746 MHz
NR n14	788 ~ 798 MHz	758 ~ 768 MHz
NR n25	1850 MHz ~ 1915 MHz	1930 MHz ~ 1995 MHz
NR n30	2305 ~ 2315 MHz	2350 ~ 2360 MHz
NR n41	2496 MHz ~ 2690 MHz	2496 MHz ~ 2690 MHz
NR n48	3550 ~ 3700 MHz	3550 ~ 3700 MHz
NR n66	1710 MHz ~ 1780 MHz	2110 MHz ~ 2200 MHz
NR n71	663 MHz ~ 698 MHz	617 MHz ~ 652 MHz

NR n77	3450 MHz ~ 3550 MHz	3450 MHz ~ 3550 MHz
	3700 MHz ~ 3980 MHz	3700 MHz ~ 3980 MHz
NR n78	3450 MHz ~ 3550 MHz	3450 MHz ~ 3550 MHz
	3700 MHz ~ 3800 MHz	3700 MHz ~ 3800 MHz

Note1: The EUT information provided by the applicant, except for the Max RF Conducted Power of LTE B13/B14 and NR n14/n71. For more detailed band specifications and features description, please refer to the manufacturer's specifications or user's manual.

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 22 Subpart H	Cellular Radiotelephone Service
3	47 CFR Part 24 Subpart E	Broadband PCS
4	47 CFR Part 27	Miscellaneous Wireless Communications Services
5	47 CFR Part 90 Subpart S	Regulations Governing Licensing and Use of Frequencies in the 806-824, 851-869, 896-901, and 935-940 MHz Bands
6	47 CFR Part 90 Subpart R	Regulations Governing Licensing and Use of Frequencies in the 758-775 and 788-805 MHz Bands
7	47 CFR Part 96	CITIZENS BROADBAND RADIO SERVICE
8	ANSI C63.26-2015	American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services
9	KDB 971168 D01 v03	Measurement Guidance for Certification of Licensed Digital Transmitters

3.2 Test Verdict

No.	Test Description	FCC Part No.	Test Result	Test Verdict
1	Conducted RF Output Power	2.1046 22.913 24.232 27.50 90.635(b) 90.542(a) 96.41(b)	Reporting only (ANNEX A.1)	Pass
2	Effective (Isotropic) Radiated Power	2.1046 24.232(d) 27.50(d)	ANNEX A.1	Pass
3	Peak to Average Ratio	2.1049 22.917 24.238 27.53 90.209	ANNEX A.2	Pass
4	Occupied Bandwidth	2.1055 22.355 24.235 27.54 90.213	ANNEX A.3	Pass
5	Frequency Stability	2.1051 22.917 24.238 27.53 90.691 90.543 96.41(e)	ANNEX A.4	Pass
6	Spurious Emission at Antenna Terminals	2.1051 22.917 24.238 27.53 90.691 90.543 96.41(e)	ANNEX A.5	Pass
7	Band Edge	2.1053 22.917 24.238 27.53 90.691 90.543	ANNEX A.6	Pass

No.	Test Description	FCC Part No.	Test Result	Test Verdict
		96.41(e)		
8	Field Strength of Spurious Radiation	2.1046 22.913 24.232 27.50 90.635(b) 90.542(a) 96.41(b)	ANNEX A.7	Pass

Note: The difference between the EUT (test samples in this report) and testing sample of report No. 25T04Z100699-001 & 25T04Z100699-002 & 25T04Z100699-003 (FCC ID: 2ACCJB233), which was issued by CTTL-Telecommunication Technology Labs, CAICT on Jun. 18, 2025 and report No.25T04Z100699-004 (FCC ID: 2ACCJB233), which was issued by CTTL-Telecommunication Technology Labs, CAICT on Jun. 19, 2025 is that:

1. Change the model name from 8189S to 8289S.
2. Change the software from Android 15 to Android 16 AOSP;
3. Change to not support MMS;
4. Most AOSP apps have been removed except Settings and System UI;
5. 8189R has Esim & 1 removeable sim, 8289S only has 1 removeable sim;
6. PCBA add wireless charger receive IC;
7. LTE B13/B14 and NR n14/n71 use new Tx SAW Filter and Rx SAW Filter (SAW Duplexer), the specifications remain unchanged and do not affect the RF performance;
8. Disable the fingerprint button, add a flash lens;
9. Add wireless charging antenna(RX only), the color of the POWER KEY has been changed from gray to blue, the graphite sheet (for heat dissipation) area has been increased, the shape of the battery connector steel piece has changed (because a wireless charging base was added, it needs to hold the base), and an xxx sticker has been added to the battery;
10. Use new charger, a new battery, a new USB cable and a wireless charging base;
11. Changed the power of the sensor on states for GSM 1900, ANT0 for LTE B2, LTE B13 and N14/71. No change in radio parameters has occurred for other bands.

Except listings above, the others hardware/software/ antenna are all the same.

Therefore, LTE bands B13/B14, NR bands n14/n71 were retested and the worst case of Field Strength of Spurious Radiation were verified in this report, and all other test data please refer to report No. 25T04Z100699-001 & 25T04Z100699-002 & 25T04Z100699-003 (FCC ID: 2ACCJB233), which was issued by CTTL-Telecommunication Technology Labs, CAICT on Jun. 18, 2025 and report No.25T04Z100699-004 (FCC ID: 2ACCJB233), which was issued by CTTL-Telecommunication Technology Labs, CAICT on Jun. 19, 2025.

3.3 Measurement Uncertainty

Test Case	Uncertainty
Conducted RF Output Power	0.68dB
Effective (Isotropic) Radiated Power	2.50dB
Peak to Average Ratio	0.015%
Occupied Bandwidth	1.4/3MHz: 30kHz 5/10MHz: 100kHz 15/20MHz: 300kHz
Frequency Stability	12Hz
Spurious Emission at Antenna Terminals	2.56dB
Band Edge	1.48dB
Field Strength of Spurious Radiation	4.55dB

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the environmental conditions were within the listed ranges:

Relative Humidity		25% to 75%
Atmospheric Pressure		98 kPa to 102 kPa
Test Voltage of the EUT	NV (Normal Voltage)	3.85V
	LV (Low Voltage)	3.4V
	HV (High Voltage)	4.4V
Test Temperature of the EUT	NT (Normal Temperature)	15 °C to 35 °C
	LT (Low Temperature)	-30 °C
	HT (High Temperature)	50 °C

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Version	Cal. Date	Cal. Due
2/3/4/5G RF Test System						
BL410 Test Software	BALUN	BL410R	N/A	3.0.1.536	N/A	N/A
CMUgo Test Software	R&S	CMUgo	N/A	V2.0.1	N/A	N/A
UCTS Test Software	Anritsu	UCTS	N/A	V 6.21.1105.0	N/A	N/A
Temperature Chamber	OK	OK-TH-100C	OK2022110401	N/A	2025-09-15	2026-09-14
Universal Radio Communication Tester	R&S	CMU 200	119280	V5.13	2025-10-20	2026-10-19
Wideband Radio Communication Tester	R&S	CMW 500	100854	V3.7.172	2025-12-25	2026-12-24
Wideband Radio Communication Tester	R&S	CMW 500	120598	V3.7.172	2025-08-13	2026-08-12
Radio Communication Test Station	Anritsu	MT8821C	6201588572	40.10S #017	2025-12-25	2026-12-24
Radio Communication Test Station	Anritsu	MT8000A	6261940329	Ver.8.60.4.0	2025-10-20	2026-10-19
5G Wireless Test Platform	Starpoint	SP9500-CTS	20395	C1.0.7.30+SP 1	2025-12-25	2026-12-24
Spectrum Analyzer	R&S	FSV40	101544	2.30.SP4	2025-10-30	2026-10-29
DC Power Supply	ITECH	IT6863A	8000140207571 20008	N/A	2025-07-28	2026-07-27
Spectrum Analyzer	Agilent	E4440A	MY46181663	A.11.21	2025-07-15	2026-07-14
Radiated Test System						

Radiated Test System Test Software	BALUN	BL410-E	N/A	V22.4	N/A	N/A
Wideband Radio Communication Tester	R&S	CMW 500	100854	V3.7.172	2025-12-25	2026-12-24
Wideband Radio Communication Tester	R&S	CMW 500	120598	V3.7.172	2025-08-13	2026-08-12
5G Wireless Test Platform	Keysight	E7515B UXM	MY59321617	15.26.12.8161	2025-07-15	2026-07-14
Spectrum Analyzer	R&S	FSV40	101544	2.30.SP4	2025-10-30	2026-10-29
Test Antenna-Horn(18- 40 GHz)	A-INFO	LB-180400KF	J211060273	N/A	2024-06-15	2027-06-14
Test Antenna-Bi-Log(30 MHz-3 GHz)	Schwarzbeck	VULB 9163	01414	N/A	2023-11-03	2026-11-02
Test Antenna-Horn(1- 18 GHz)	Schwarzbeck	BBHA 9120D	02459	N/A	2023-10-26	2026-10-25
Anechoic Chamber	YIHENG	C8-966	N/A	N/A	2024-05-15	2027-05-11
EMI Receiver	Keysight	N9038A	MY55330121	A.20.03	2025-12-26	2026-12-25

4.3 Test Configurations

LTE Band	Bandwidth (MHz)						Modulation Type				RB#			Test Channel		
	1.4	3	5	10	15	20	QPS K	16- QAM	64- QAM	256 - QA M	1	Half	Full	LCH	MC H	HCH
Effective (Isotropic) Radiated Power																
13	n	n	v	v	n	n	v	v	v	v	v	v	v	v	v	v
14	n	n	v	v	n	n	v	v	v	v	v	v	v	v	v	v
Peak to Average Ratio																
13	n	n	--	v	n	n	v	v	--	--	v	--	v	--	v	--
14	n	n	--	v	n	n	v	v	--	--	v	--	v	--	v	--
Occupied Bandwidth																
13	n	n	v	v	n	n	v	v	v	v	--	--	v	v	v	v
14	n	n	v	v	n	n	v	v	v	v	--	--	v	v	v	v
Frequency Stability																
13	n	n	--	v	n	n	v	v	--	--	--	--	v	--	v	--
14	n	n	--	v	n	n	v	v	--	--	--	--	v	--	v	--
Spurious Emission at Antenna Terminals																
13	n	n	v	v	n	n	v	v	--	--	v	--	--	v	v	v
14	n	n	v	v	n	n	v	v	--	--	v	--	--	v	v	v
Band Edge																
13	n	n	v	v	n	n	v	v	--	--	v	--	v	v	--	v
14	n	n	v	v	n	n	v	v	--	--	v	--	v	v	--	v
Field Strength of Spurious Radiation																
13	Worst Case															
14	Worst Case															
Note 1: The mark “v” means that this configuration is chosen for testing.																
Note 2: The mark “n” means that this bandwidth is not supported.																

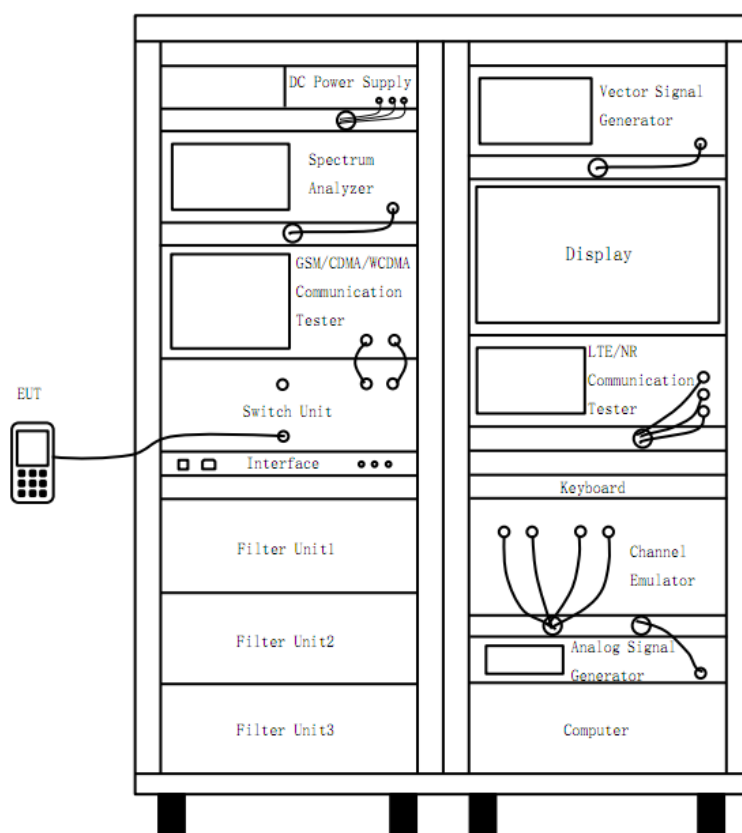
Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
LTE Band 13	Low Range	5	23205	779.5
		10	---	---
	Middle Range	5/10	23230	782
	High Range	5	23255	784.5
		10	---	---
LTE Band 14	Low Range	5	23305	790.5
		10	---	---
	Middle Range	5/10	23330	793
	High Range	5	23355	795.5
		10	---	---

Test Mode	Channel Bandwidth (MHz)	UL Channel	UL Channel No.	UL Frequency (MHz)
NR Band n14	5	Low Range	158100	790.5
		Middle Range	158600	793
		High Range	159100	795.5
	10	Middle Range	158600	793

Test Mode	Channel Bandwidth (MHz)	UL Channel	UL Channel No.	UL Frequency (MHz)
NR Band n71	5	Low Range	133100	665.5
		Middle Range	136100	680.5
		High Range	139100	695.5
	10	Low Range	133600	668
		Middle Range	136100	680.5
		High Range	138600	693
	15	Low Range	134100	670.5
		Middle Range	136100	680.5
		High Range	138100	690.5
	20	Low Range	134600	673
		Middle Range	136100	680.5
		High Range	137600	688
	25	Low Range	135100	675.5
		Middle Range	136100	680.5
		High Range	137100	685.5
	30	Low Range	135600	678
		Middle Range	136100	680.5
		High Range	136600	683
	35	Middle Range	136100	680.5

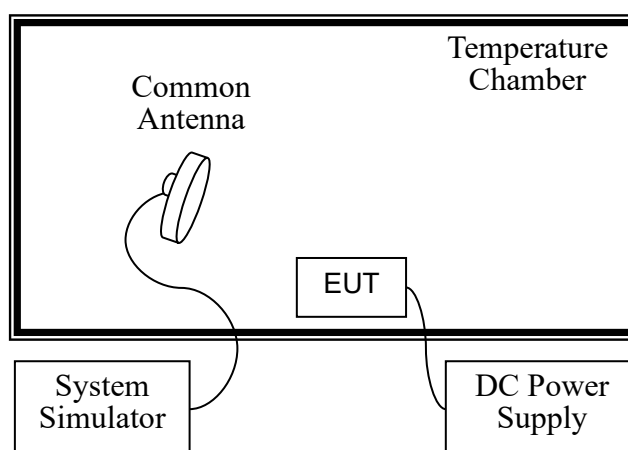
4.4 Test Setup

4.4.1 For Antenna Port Test



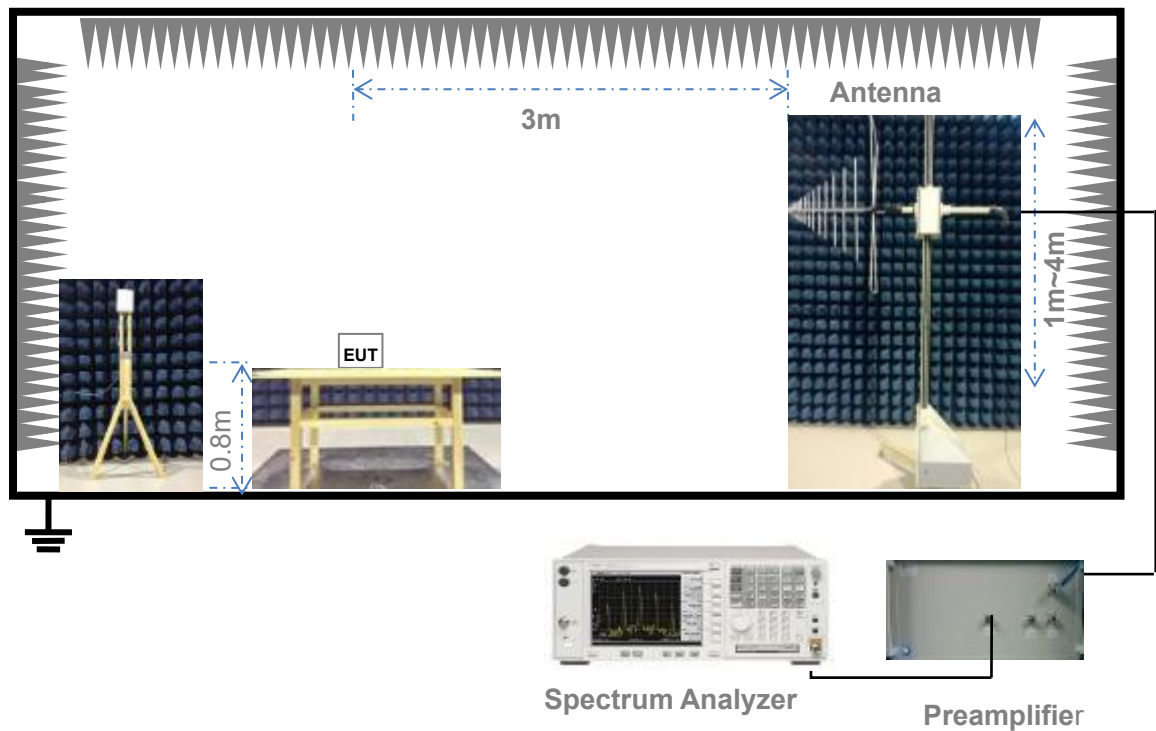
(Diagram 1)

4.4.2 For Frequency Stability Test



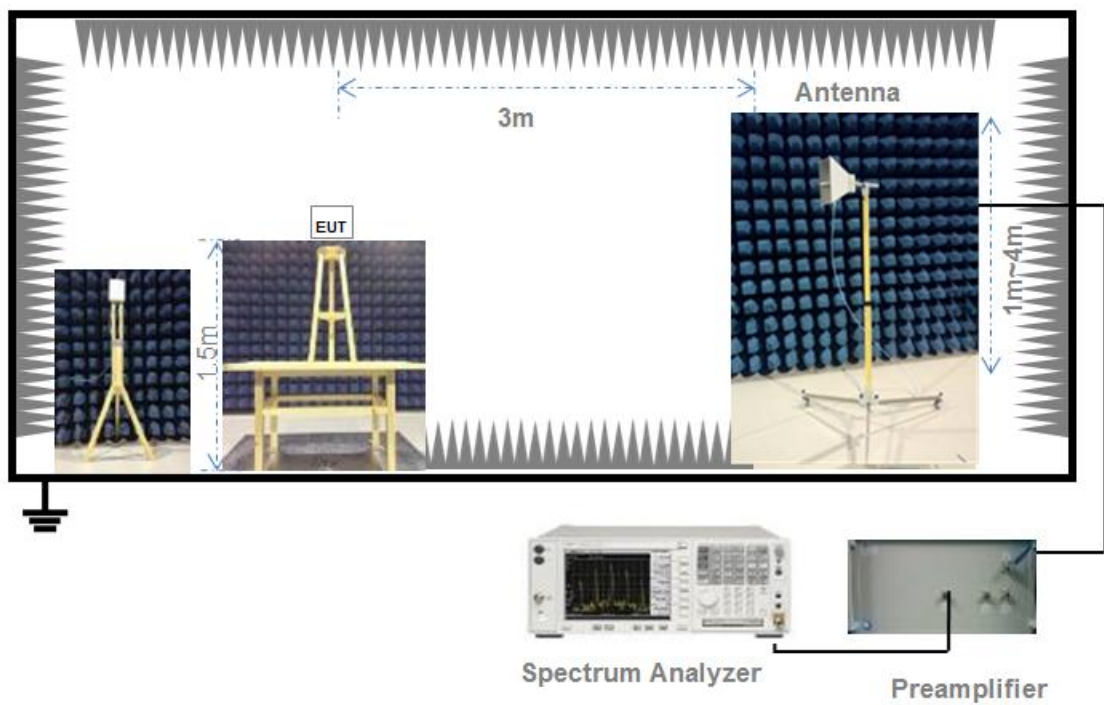
(Diagram 2)

4.4.3 For Radiated Test (30 MHz ~ 1 GHz)



(Diagram 3)

4.4.4 For Radiated Test (Above 1 GHz)



(Diagram 4)

5 TEST ITEMS

5.1 Transmitter Radiated Power (EIRP/ERP)

5.1.1 Limit

FCC § 2.1046 & 22.913(a) & 24.232(c) & 27.50(a) & 27.50(b) & 27.50(c) & 27.50(d) & 27.50(h) & 27.50(j) & 27.50(k) & 90.635(b) & 90.542(a) & 96.41(b)

According to FCC section 22.913(a) (5), the Effective Radiated Power (ERP) of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC section 24.232(c), mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

According to FCC section 27.50(a) (3), for mobile and portable stations transmitting in the 2305-2315MHz band or the 2350-2360MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth. For mobile and portable stations using time division duplexing (TDD) technology, the duty cycle must not exceed 38 percent in the 2305-2315 MHz and 2350-2360 MHz bands.

FCC section 27.50(b) (10), portable stations (hand-held devices) transmitting in the 746-757MHz, 776-788MHz, and 805-806MHz bands are limited to 3 watts ERP.

FCC section 27.50(c) (10), portable stations (hand-held devices) in the 600MHz uplink band and the 698-746MHz band, and fixed and mobile stations in the 600MHz uplink band are limited to 3 watts ERP.

FCC section 27.50(d) (4), fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications.

(7) Fixed, mobile, and portable (hand-held) stations operating in the 2000-2020 MHz band are limited to 2 watts EIRP.

And FCC section 27.50(h) (2), for mobile and other user stations, mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

FCC section 27.50(j) (3), for mobile, and portable (hand-held) stations operating in the 3700-3980 MHz band are limited to 1 watt EIRP.

FCC section 27.50(k) (3), Mobile devices are limited to 1Watt (30 dBm) EIRP in the 3450-3550 MHz band.

According to FCC section 90.635(b), the maximum output power of the transmitter for mobile stations is 100 watts (20dBW).

According to FCC section 90.542(a) (7), portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

FCC section 96.41(b), the maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the table in this paragraph below:

Device	Maximum EIRP (dBm/10 megahertz)	Maximum PSD (dBm/MHz)
End User Device	23	N/A
Category A CBSD	30	20
Category B CBSD ^{note1}	47	37
Note1: Category B CBSDs will only be authorized for use after an ESC is approved and commercially deployed consistent with §§ 96.15 and 96.67.		

5.1.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description is used for conducted test, and the section 4.4.3 and 4.4.4 (Diagram 3, 4) test setup description is used for radiated test. The photo of test setup please refer to ANNEX B.

5.1.3 Test Procedure

Description of the Conducted Output Power Measurement

The EUT is coupled to the SS with attenuator through power splitter; the RF load attached to EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. A system simulator is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The relevant equation for determining the conducted measured value is:

$$\text{Conducted Output Power Value (dBm)} = \text{Measured Value (dBm)} + \text{Path Loss (dB)}$$

where:

Conducted Output Power Value = final conducted measured value in the conducted power test, in dBm;
 Measured Value = measured conducted power received by spectrum analyzer or power meter, in dBm;
 Path Loss = signal attenuation in the connecting cable between the transmitter and spectrum analyzer or power meter, including external cable loss, in dB;

During the test, the data of Path Loss (dB) is added in the spectrum analyzer or power meter, so Measured Value (dBm) is the final values which contains the data of Path Loss (dB).

For example:

In the conducted output power test, when measured value for GSM850 is 24.7 dBm, and path loss is 8.5 dB, then final conducted output power value is:

$$\text{Conducted Output Power Value (dBm)} = 24.7 \text{ dBm} + 8.5 \text{ dB} = 33.2 \text{ dBm}$$

Description of the Transmitter Radiated Power Measurement

In many cases, the RF output power limits for licensed digital transmission devices is specified in terms of effective radiated power (ERP) or equivalent isotropic radiated power (EIRP). Typically, ERP is specified when the operating frequency is less than or equal to 1 GHz and EIRP is specified when the operating frequency is greater than 1 GHz. Both are determined by adding the transmit antenna gain to the conducted RF output power with the primary difference between the two being that when determining the ERP, the transmit antenna gain is referenced to a dipole antenna (i.e., dBd) whereas when determining the EIRP, the transmit antenna gain is referenced to an isotropic antenna (dBm).

Final measurement calculation as below:

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP/EIRP} = P_{\text{Meas}} + \text{GT} - \text{LC}$$

where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBm (EIRP);

dBd (ERP)=dBm (EIRP) -2.15 dB

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

For example:

In the EIRP test, when P_{Meas} value for GSM1900 is 30.2 dBm, LC is 0.6 dB, and GT is -3.4 dB, then final EIRP value is:

$$\text{EIRP for GSM1900} = 30.2 \text{ dBm} - 3.4 \text{ dBm} - 0.6 \text{ dB} = 26.2 \text{ dBm}$$

The relevant equation for determining the ERP/EIRP from the radiated RF output power is:

$$\text{ERP/EIRP (dBm)} = \text{SA Read Value (dBm)} + \text{Correction Factor (dB)}$$

where:

ERP/EIRP = effective or equivalent radiated power, in dBm;

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm;

Correction Factor = total correction factor including cable loss, in dB;

During the test, the data of Correction Factor (dB) is added in the EMI receiver or spectrum analyzer, so SA Read Value (dBm) is the final values which contains the data of Correction Factor (dB).

For example:

In the ERP test, when SA read value for GSM850 is 21dBm, and correction factor is 8dB, then final ERP value for GSM850 is:

$$\text{ERP (dBm)} = 21\text{dBm} + 8\text{dB} = 29\text{dBm}$$

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Peak to Average Ratio

5.2.1 Limit

FCC § 2.1046 & 24.232(d) & 27.50(d) & 27.50(j) & 27.50(k)

In addition, when the transmitter power is measured in terms of average value, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time using a signal corresponding to the highest PAPR during periods of continuous transmission.

According to FCC section 24.232(d), power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with 24.232 (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of § 24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

FCC section 24.232(e), peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms equivalent voltage. The measurement results shall be properly adjusted for any instrument limitations, such as detector response times, limited resolution bandwidth capability when compared to the emission bandwidth, sensitivity, etc., so as to obtain a true peak measurement for the emission in question over the full bandwidth of the channel.

According to FCC section 27.50(d) (5) & 27.50(j) & 27.50(k), in measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

5.2.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description is used for this test. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

Here the lowest, middle and highest channels are selected to perform testing to verify the peak-to-average ratio.

According to KDB 971168 D01, there is CCDF procedure for PAPR:

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:
 - 1) for continuous transmissions, set to 1 ms,

2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.

e) Record the maximum PAPR level associated with a probability of 0.1%.

Alternate procedure for PAPR:

Use one of the procedures presented in 4.1 to measure the total peak power and record as P_{Pk} . Use one of the applicable procedures presented 4.2 to measure the total average power and record as P_{Avg} . Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$$PAPR (dB) = P_{Pk} (dBm) - P_{Avg} (dBm).$$

5.2.4 Test Result

Please refer to ANNEX A.2.

5.3 Occupied Bandwidth

5.3.1 Limit

FCC § 2.1049

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Many of the individual rule parts specify a relative OBW in lieu of the 99% OBW. In such cases, the OBW is defined as the width of the signal between two points, one below the carrier center frequency and on above the carrier center frequency, outside of which all emissions are attenuated by at least X dB below the transmitter power, where the value of X is typically specified as 26.

5.3.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description is used for this test. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

The following procedure shall be used for measuring power bandwidth.

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the anticipated OBW).
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least 10log (OBW / RBW) below the reference level.
- d) NOTE—Steps a) through c) may require iteration to adjust within the specified tolerances.
- e) For -26 dB OBW, the dynamic range of the spectrum analyzer at the selected RBW shall be at least 10dB below the target “-X dB down” requirement, e.g. -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be 36dB below the reference value.
- f) Set the detection mode to peak, and the trace mode to max hold.
- g) For 99% OBW, use the 99 % power bandwidth function of the spectrum analyzer (if available) and report the measured bandwidth.

If the instrument does not have a 99 % power bandwidth function, the trace data points are to be recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is

recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99 % power bandwidth is the difference between these two frequencies.

h) For -26 dB OBW, determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).

Determine the “-X dB down amplitude” as equal to (reference value -X). Alternatively, this calculation can be performed by the analyzer by using the marker-delta function.

Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below “-X dB down amplitude” determined in step g). If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.

i) The OBW shall be reported by providing plot(s) of the measuring instrument display. The frequency and amplitude axes and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

j) Change variable modulations, coding, or channel bandwidth settings, then repeat above test procedures.

5.3.4 Test Result

Please refer to ANNEX A.3.

5.4 Frequency Stability

5.4.1 Limit

FCC § 2.1055 & 22.355 & 24.235 & 27.54 & 90.213

FCC § 2.1055

The frequency stability shall be measured with variation of ambient temperature as follows:

- (1) The temperature is varied from -30°C to +50°C.
- (2) Frequency measurements shall be made at the extremes of the specified temperature range and at intervals of not more than 10°C through the range.

The frequency stability shall be measured with variation of primary supply voltage as follows:

- (1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than carried battery equipment.
- (2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery operating and point which shall be specified by the manufacture.
- (3) The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

FCC § 22.355

Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

Table C-1—Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency range (MHz)	Base, fixed (ppm)	Mobile > 3 watts (ppm)	Mobile ≤ 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929	5.0	n/a	n/a
929 to 960	1.5	n/a	n/a
2110 to 2220	10.0	n/a	n/a

FCC § 24.235

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

FCC § 27.54

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

FCC § 90.213

The frequency stability shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

5.4.2 Test Setup

The section 4.4.2 (Diagram 2) test setup description is used for this test. The photo of test setup please refer to ANNEX B.

5.4.3 Test Procedure

1. The EUT is placed in a temperature chamber.
2. The temperature is set to 25°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured.
3. The temperature is increased by not more than 10 degrees, allowed to stabilize and soak, and then repeat the frequency error measurement.
4. Repeat procedure 3 until +50°C and -30°C is reached.
5. Change supply voltage, and repeat measurement until extreme voltage is reached.

5.4.4 Test Result

Please refer to ANNEX A.4.

5.5 Spurious Emission at Antenna Terminals

5.5.1 Limit

FCC § 2.1051 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(f) & 27.53(g) & 27.53(h) & 27.53(l) & 27.53(m) & 27.53(n) & 90.691 & 90.543 & 96.41(e)

In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC § 22.917(a) & 24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. This is calculated to be -13 dBm.

FCC § 27.53(a) (4)

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

(1) By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337MHz.

(2) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292MHz, and $70 + 10 \log(P)$ dB below 2288MHz.

(3) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2365MHz, and not less than $70 + 10 \log(P)$ dB above 2365MHz.

FCC § 27.53(c)

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;

(3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth

of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 27.53(f)

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to - 70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43+10*\log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC § 27.53(h) (1)

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

FCC § 27.53(l) (2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

FCC § 27.53(m) (4)

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- $40 + 10 \log P$ dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43 + 10 \log P$ dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55 + 10 \log P$ dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

FCC § 27.53(n) (2)

For mobile operations in the 3450 - 3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

FCC § 90.691

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

FCC § 90.543

(e) For operations in the 758 – 768 MHz and the 788 – 798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On all frequencies between 769 – 775 MHz and 799 – 805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769 – 775 MHz and 799 – 805 MHz, by a factor not less than $65 + 10 \log (P)$

dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log(P)$ dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(f) For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC § 96.41(e)

The conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any emission shall not exceed -25 dBm/MHz. The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

5.5.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside

and adjacent to the frequency blocks a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

1. The EUT is coupled to the system simulator and spectrum analyzer; the RF load attached to EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.
2. Base Station is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power.
3. The RF output of the transmitter is connected to the input of the spectrum analyzer through sufficient attenuation.
4. Spurious emissions are tested with 0.001MHz RBW for frequency less than 150kHz, 0.01MHz RBW for frequency less than 30MHz, 0.1MHz RBW for frequency less than 1GHz, and 1MHz RBW for frequency above 1GHz. And sweep point number are at least 401, referring to following formula.

Sweep point number = Span/RBW

VBW=3*RBW

Detector Mode=mean or average power

5. Record the frequencies and levels of spurious emissions.

5.5.4 Test Result

Please refer to ANNEX A.5.

5.6 Band Edge

5.6.1 Limit

FCC § 2.1051 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(f) & 27.53(g) & 27.53(h) & 27.53(l) & 27.53(m) & 27.53(n) & 90.691 & 90.543 & 96.41(e)

In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FCC § 22.917(a) & 24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. This is calculated to be -13 dBm.

FCC § 27.53(a) (4)

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

(1) By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337MHz.

(2) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292MHz, and $70 + 10 \log(P)$ dB below 2288MHz.

(3) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2365MHz, and not less than $70 + 10 \log(P)$ dB above 2365MHz.

FCC § 27.53(c)

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;

(3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth

of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 27.53(f)

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43+10*\log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC § 27.53(h) (1)

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

FCC § 27.53(l) (2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

FCC § 27.53(m) (4)

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- $40 + 10 \log P$ dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43 + 10 \log P$ dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55 + 10 \log P$ dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

FCC § 27.53(n) (2)

For mobile operations in the 3450 - 3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

FCC § 90.691

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

FCC § 90.543

(e) For operations in the 758 – 768 MHz and the 788 – 798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On all frequencies between 769 – 775 MHz and 799 – 805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769 – 775 MHz and 799 – 805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log(P)$ dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 96.41(e)

The conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any emission shall not exceed -25 dBm/MHz. The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

5.6.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.6.3 Test Procedure

The EUT, which is powered by the Battery, is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading.

1. The EUT is coupled to the system simulator and spectrum analyzer; the RF load attached to EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading.

2. Base Station is used to establish communication with the EUT, and its parameters are set to force the EUT transmitting at maximum output power.

3. The RF output of the transmitter is connected to the input of the spectrum analyzer through sufficient attenuation.

4. The center of the spectrum analyzer was set to block edge frequency.

5. Band edge are tested with $1\% \cdot \text{cBW}$ (RBW), and sweep point number referred to following formula.

$$\text{Sweep point number} = 2 \cdot \text{Span} / \text{RBW}$$

VBW=3RBW

6. Record the frequencies and levels of spurious emissions.

For mobile and portable stations, on all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment. Since it was not possible to set the resolution bandwidth to 6.25 kHz with the available equipment, a bandwidth of 10 kHz was used instead to show compliance. By using a 10 kHz bandwidth on the spectrum analyzer.

$$10 \cdot \log(10 \text{ kHz} / 6.25 \text{ kHz}) = 2.04 \text{ dB}$$

$$\text{Limit Line} = -35 \text{ dBm} + 2.04 \text{ dB} = -32.96 \text{ dBm}$$

5.6.4 Test Result

Please refer to ANNEX A.6.

5.7 Field Strength of Spurious Radiation

5.7.1 Limit

FCC § 2.1053 & 22.917(a) & 24.238(a) & 27.53(a) & 27.53(c) & 27.53(f) & 27.53(g) & 27.53(h) & 27.53(l) & 27.53(m) & 27.53(n) & 90.691 & 90.543 & 96.41(e)

FCC § 22.917(a) & 24.238(a)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. This is calculated to be -13 dBm.

FCC § 27.53(a) (4)

For mobile and portable stations operating in the 2305-2315MHz and 2350-2360MHz bands:

(1) By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324MHz and on all frequencies between 2341 and 2345MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328MHz and on all frequencies between 2337 and 2341MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337MHz.

(2) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292MHz, and $70 + 10 \log(P)$ dB below 2288MHz.

(3) By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2360 and 2365MHz, and not less than $70 + 10 \log(P)$ dB above 2365MHz.

FCC § 27.53(c)

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746–758 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the

band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(3) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

(5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of

measurement instrumentation employing a resolution bandwidth of 100 kHz or greater.

However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth

of at least 30 kHz may be employed;

(6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

FCC § 27.53(f)

For operations in the 746–758 MHz, 775–788 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to - 70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC § 27.53(g)

For operations in the 600MHz band and the 698-746MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43+10\log(P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC § 27.53(h) (1)

Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

FCC § 27.53(l) (2)

For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

FCC § 27.53(m) (4)

For mobile digital stations (BRS and EBS stations), the attenuation factor shall be not less than:

- $40+10\log P$ dB (-10 dBm, 100 nW) on all frequencies between the channel edge and 5 MHz from the channel edge.
- $43+10\log P$ dB (-13 dBm, 50 nW) on all frequencies between 5 MHz and X MHz from the channel edge,
- $55+10\log P$ dB (-25 dBm, 3 nW) on all frequencies more than X MHz from the channel edge, where X is the greater of 6 MHz or the actual emission bandwidth (26 dB).

In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service

licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

FCC § 27.53(n) (2)

For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.

FCC § 90.691

(a) Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

(b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

FCC § 90.543

(e) For operations in the 758–768 MHz and the 788–798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log(P)$ dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(f) For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/ MHz equivalent isotropically radiated power (EIRP) for

wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC § 96.41(e)

The conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any emission shall not exceed -25 dBm/MHz. The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

5.7.2 Test Setup

The section 4.4.3 and 4.4.4 (Diagram 3, 4) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

1. On a test site, the EUT shall be placed at 80cm height on a turn table, and in the position close to normal use as declared by the applicant.
2. The test antenna shall be oriented initially for vertical polarization located 3 m from EUT to correspond to the fundamental frequency of the transmitter.
3. The output of the test antenna shall be connected to the measuring receiver and the peak detector is used for the measurement.
4. During the measurement of the EUT, the resolution bandwidth was to 1 MHz and the average bandwidth was set to 1 MHz.
5. The transmitter shall be switched on; the measuring receiver shall be tuned to the frequency of the transmitter under test.
6. The test antenna shall be raised and lowered through the specified range of height until the maximum signal level is detected by the measuring receiver.

7. The transmitter shall be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
8. The test antenna shall be raised and lowered again through the specified range of height until the maximum signal level is detected by the measuring receiver.
9. The maximum signal level detected by the measuring receiver shall be noted.
10. The EUT was replaced by half-wave dipole (824 ~ 849 MHz) or horn antenna (1 850 ~ 1 910 MHz) connected to a signal generator.
11. In necessary, the input attenuator setting on the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
12. The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
13. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring received, which is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
14. The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
15. The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.

Final measurement calculation as below:

The relevant equation for determining the ERP/EIRP from the radiated RF output power is:

$$\text{ERP/EIRP (dBm)} = \text{SA Read Value (dBm)} + \text{Correction Factor (dB)}$$

where:

ERP/EIRP = effective or equivalent radiated power, in dBm;

SA Read Value = measured transmitter power received by EMI receiver or spectrum analyzer, in dBm;

Correction Factor = total correction factor including cable loss, in dB;

During the test, the data of Correction Factor (dB) is added in the EMI receiver or spectrum analyzer, so SA Read Value (dBm) is the final values which contains the data of Correction Factor (dB).

For example:

In the ERP test, when SA read value for GSM850 is 21dBm, and correction factor is 8dB, then final ERP value for GSM850 is:

$$\text{ERP (dBm)} = 21\text{dBm} + 8\text{dB} = 29\text{dBm}$$

5.7.4 Test Result

Please refer to ANNEX A.7.

ANNEX A TEST RESULTS

A.1 Transmitter Radiated Power (EIRP/ERP)

Note: All data other than the following shall refer to Chapter A.1 OUTPUT POWER of report No. 25T04Z100699-001 & 25T04Z100699-002 & 25T04Z100699-003, which was issued by CTTL-Telecommunication Technology Labs, CAICT on Jun. 18, 2025 and report No.25T04Z100699-004, which was issued by CTTL-Telecommunication Technology Labs, CAICT on Jun. 19, 2025.

LTE Mode Test Data

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE Band 13										
5 MHz	LCH	QPSK	RB1#0	23.83	-2.3	-4.45	19.38	0.087	3.000	Pass
			RB1#13	24.03	-2.3	-4.45	19.58	0.091	3.000	Pass
			RB1#24	23.93	-2.3	-4.45	19.48	0.089	3.000	Pass
			RB12#0	22.83	-2.3	-4.45	18.38	0.069	3.000	Pass
			RB12#6	22.87	-2.3	-4.45	18.42	0.070	3.000	Pass
			RB12#13	22.87	-2.3	-4.45	18.42	0.070	3.000	Pass
			RB25#0	22.92	-2.3	-4.45	18.47	0.070	3.000	Pass
		16-QAM	RB1#0	23.11	-2.3	-4.45	18.66	0.073	3.000	Pass
			RB1#13	23	-2.3	-4.45	18.55	0.072	3.000	Pass
			RB1#24	23.01	-2.3	-4.45	18.56	0.072	3.000	Pass
			RB12#0	21.9	-2.3	-4.45	17.45	0.056	3.000	Pass
			RB12#6	21.93	-2.3	-4.45	17.48	0.056	3.000	Pass
			RB12#13	21.96	-2.3	-4.45	17.51	0.056	3.000	Pass
			RB25#0	21.94	-2.3	-4.45	17.49	0.056	3.000	Pass
		64QAM	RB1#0	22.2	-2.3	-4.45	17.75	0.060	3.000	Pass
			RB1#13	22.08	-2.3	-4.45	17.63	0.058	3.000	Pass
			RB1#24	22	-2.3	-4.45	17.55	0.057	3.000	Pass
			RB12#0	20.88	-2.3	-4.45	16.43	0.044	3.000	Pass
			RB12#6	20.94	-2.3	-4.45	16.49	0.045	3.000	Pass
			RB12#13	20.95	-2.3	-4.45	16.50	0.045	3.000	Pass
			RB25#0	20.96	-2.3	-4.45	16.51	0.045	3.000	Pass
		256QAM	RB1#0	19.01	-2.3	-4.45	14.56	0.029	3.000	Pass
			RB1#13	18.99	-2.3	-4.45	14.54	0.028	3.000	Pass
			RB1#24	18.96	-2.3	-4.45	14.51	0.028	3.000	Pass
			RB12#0	18.81	-2.3	-4.45	14.36	0.027	3.000	Pass
			RB12#6	18.91	-2.3	-4.45	14.46	0.028	3.000	Pass
			RB12#13	18.86	-2.3	-4.45	14.41	0.028	3.000	Pass
			RB25#0	18.87	-2.3	-4.45	14.42	0.028	3.000	Pass
	MCH	QPSK	RB1#0	23.96	-2.3	-4.45	19.51	0.089	3.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBm)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE Band 13										
			RB1#13	23.97	-2.3	-4.45	19.52	0.090	3.000	Pass
			RB1#24	23.86	-2.3	-4.45	19.41	0.087	3.000	Pass
			RB12#0	22.91	-2.3	-4.45	18.46	0.070	3.000	Pass
			RB12#6	22.89	-2.3	-4.45	18.44	0.070	3.000	Pass
			RB12#13	22.87	-2.3	-4.45	18.42	0.070	3.000	Pass
			RB25#0	22.9	-2.3	-4.45	18.45	0.070	3.000	Pass
		16-QAM	RB1#0	23.07	-2.3	-4.45	18.62	0.073	3.000	Pass
			RB1#13	23.11	-2.3	-4.45	18.66	0.073	3.000	Pass
			RB1#24	23.09	-2.3	-4.45	18.64	0.073	3.000	Pass
			RB12#0	21.93	-2.3	-4.45	17.48	0.056	3.000	Pass
			RB12#6	21.9	-2.3	-4.45	17.45	0.056	3.000	Pass
			RB12#13	21.96	-2.3	-4.45	17.51	0.056	3.000	Pass
			RB25#0	21.94	-2.3	-4.45	17.49	0.056	3.000	Pass
		64QAM	RB1#0	22.05	-2.3	-4.45	17.60	0.058	3.000	Pass
			RB1#13	22.06	-2.3	-4.45	17.61	0.058	3.000	Pass
			RB1#24	22.07	-2.3	-4.45	17.62	0.058	3.000	Pass
			RB12#0	20.95	-2.3	-4.45	16.50	0.045	3.000	Pass
			RB12#6	20.95	-2.3	-4.45	16.50	0.045	3.000	Pass
			RB12#13	20.96	-2.3	-4.45	16.51	0.045	3.000	Pass
			RB25#0	20.92	-2.3	-4.45	16.47	0.044	3.000	Pass
		256QAM	RB1#0	19.07	-2.3	-4.45	14.62	0.029	3.000	Pass
			RB1#13	19.05	-2.3	-4.45	14.60	0.029	3.000	Pass
			RB1#24	18.94	-2.3	-4.45	14.49	0.028	3.000	Pass
			RB12#0	18.88	-2.3	-4.45	14.43	0.028	3.000	Pass
			RB12#6	18.87	-2.3	-4.45	14.42	0.028	3.000	Pass
			RB12#13	18.86	-2.3	-4.45	14.41	0.028	3.000	Pass
			RB25#0	18.89	-2.3	-4.45	14.44	0.028	3.000	Pass
	HCH	QPSK	RB1#0	23.85	-2.3	-4.45	19.40	0.087	3.000	Pass
			RB1#13	23.85	-2.3	-4.45	19.40	0.087	3.000	Pass
			RB1#24	23.84	-2.3	-4.45	19.39	0.087	3.000	Pass
			RB12#0	22.88	-2.3	-4.45	18.43	0.070	3.000	Pass
			RB12#6	22.93	-2.3	-4.45	18.48	0.070	3.000	Pass
			RB12#13	22.88	-2.3	-4.45	18.43	0.070	3.000	Pass
			RB25#0	22.92	-2.3	-4.45	18.47	0.070	3.000	Pass
		16-QAM	RB1#0	23.12	-2.3	-4.45	18.67	0.074	3.000	Pass
			RB1#13	23.08	-2.3	-4.45	18.63	0.073	3.000	Pass
			RB1#24	23.09	-2.3	-4.45	18.64	0.073	3.000	Pass
			RB12#0	21.97	-2.3	-4.45	17.52	0.056	3.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBm)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE Band 13										
			RB12#6	21.96	-2.3	-4.45	17.51	0.056	3.000	Pass
			RB12#13	21.98	-2.3	-4.45	17.53	0.057	3.000	Pass
			RB25#0	21.98	-2.3	-4.45	17.53	0.057	3.000	Pass
		64QAM	RB1#0	22.14	-2.3	-4.45	17.69	0.059	3.000	Pass
			RB1#13	22.16	-2.3	-4.45	17.71	0.059	3.000	Pass
			RB1#24	22.02	-2.3	-4.45	17.57	0.057	3.000	Pass
			RB12#0	20.96	-2.3	-4.45	16.51	0.045	3.000	Pass
			RB12#6	20.99	-2.3	-4.45	16.54	0.045	3.000	Pass
			RB12#13	20.98	-2.3	-4.45	16.53	0.045	3.000	Pass
			RB25#0	20.95	-2.3	-4.45	16.50	0.045	3.000	Pass
		256QA M	RB1#0	18.98	-2.3	-4.45	14.53	0.028	3.000	Pass
			RB1#13	18.97	-2.3	-4.45	14.52	0.028	3.000	Pass
			RB1#24	18.93	-2.3	-4.45	14.48	0.028	3.000	Pass
			RB12#0	18.88	-2.3	-4.45	14.43	0.028	3.000	Pass
			RB12#6	18.96	-2.3	-4.45	14.51	0.028	3.000	Pass
			RB12#13	18.89	-2.3	-4.45	14.44	0.028	3.000	Pass
			RB25#0	18.91	-2.3	-4.45	14.46	0.028	3.000	Pass
10 MHz	MCH	QPSK	RB1#0	23.89	-2.3	-4.45	19.44	0.088	3.000	Pass
			RB1#25	23.96	-2.3	-4.45	19.51	0.089	3.000	Pass
			RB1#49	23.83	-2.3	-4.45	19.38	0.087	3.000	Pass
			RB25#0	22.87	-2.3	-4.45	18.42	0.070	3.000	Pass
			RB25#13	22.87	-2.3	-4.45	18.42	0.070	3.000	Pass
			RB25#25	22.94	-2.3	-4.45	18.49	0.071	3.000	Pass
			RB50#0	22.9	-2.3	-4.45	18.45	0.070	3.000	Pass
		16-QAM	RB1#0	23.25	-2.3	-4.45	18.80	0.076	3.000	Pass
			RB1#25	23.07	-2.3	-4.45	18.62	0.073	3.000	Pass
			RB1#49	23.13	-2.3	-4.45	18.68	0.074	3.000	Pass
			RB25#0	21.89	-2.3	-4.45	17.44	0.055	3.000	Pass
			RB25#13	21.95	-2.3	-4.45	17.50	0.056	3.000	Pass
			RB25#25	21.98	-2.3	-4.45	17.53	0.057	3.000	Pass
			RB50#0	21.93	-2.3	-4.45	17.48	0.056	3.000	Pass
		64QAM	RB1#0	22.2	-2.3	-4.45	17.75	0.060	3.000	Pass
			RB1#25	22.06	-2.3	-4.45	17.61	0.058	3.000	Pass
			RB1#49	22	-2.3	-4.45	17.55	0.057	3.000	Pass
			RB25#0	20.89	-2.3	-4.45	16.44	0.044	3.000	Pass
			RB25#13	20.92	-2.3	-4.45	16.47	0.044	3.000	Pass
			RB25#25	20.96	-2.3	-4.45	16.51	0.045	3.000	Pass
			RB50#0	20.89	-2.3	-4.45	16.44	0.044	3.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenn a Gain (dBm)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE Band 13										
		256QAM	RB1#0	19.03	-2.3	-4.45	14.58	0.029	3.000	Pass
			RB1#25	18.98	-2.3	-4.45	14.53	0.028	3.000	Pass
			RB1#49	18.88	-2.3	-4.45	14.43	0.028	3.000	Pass
			RB25#0	18.84	-2.3	-4.45	14.39	0.027	3.000	Pass
			RB25#13	18.9	-2.3	-4.45	14.45	0.028	3.000	Pass
			RB25#25	18.91	-2.3	-4.45	14.46	0.028	3.000	Pass
			RB50#0	18.87	-2.3	-4.45	14.42	0.028	3.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE Band 14										
5 MHz	LCH	QPSK	RB1#0	23.62	-2.6	-4.75	18.87	0.077	3.000	Pass
			RB1#13	23.61	-2.6	-4.75	18.86	0.077	3.000	Pass
			RB1#24	23.65	-2.6	-4.75	18.90	0.078	3.000	Pass
			RB12#0	22.67	-2.6	-4.75	17.92	0.062	3.000	Pass
			RB12#6	22.65	-2.6	-4.75	17.90	0.062	3.000	Pass
			RB12#13	22.62	-2.6	-4.75	17.87	0.061	3.000	Pass
			RB25#0	22.66	-2.6	-4.75	17.91	0.062	3.000	Pass
		16-QAM	RB1#0	22.95	-2.6	-4.75	18.20	0.066	3.000	Pass
			RB1#13	22.97	-2.6	-4.75	18.22	0.066	3.000	Pass
			RB1#24	22.99	-2.6	-4.75	18.24	0.067	3.000	Pass
			RB12#0	21.76	-2.6	-4.75	17.01	0.050	3.000	Pass
			RB12#6	21.74	-2.6	-4.75	16.99	0.050	3.000	Pass
			RB12#13	21.74	-2.6	-4.75	16.99	0.050	3.000	Pass
			RB25#0	21.78	-2.6	-4.75	17.03	0.050	3.000	Pass
		64QAM	RB1#0	21.87	-2.6	-4.75	17.12	0.052	3.000	Pass
			RB1#13	21.78	-2.6	-4.75	17.03	0.050	3.000	Pass
			RB1#24	21.93	-2.6	-4.75	17.18	0.052	3.000	Pass
			RB12#0	20.76	-2.6	-4.75	16.01	0.040	3.000	Pass
			RB12#6	20.78	-2.6	-4.75	16.03	0.040	3.000	Pass
			RB12#13	20.76	-2.6	-4.75	16.01	0.040	3.000	Pass
			RB25#0	20.74	-2.6	-4.75	15.99	0.040	3.000	Pass
		256QAM	RB1#0	18.73	-2.6	-4.75	13.98	0.025	3.000	Pass
			RB1#13	18.84	-2.6	-4.75	14.09	0.026	3.000	Pass
			RB1#24	18.84	-2.6	-4.75	14.09	0.026	3.000	Pass
			RB12#0	18.73	-2.6	-4.75	13.98	0.025	3.000	Pass
			RB12#6	18.73	-2.6	-4.75	13.98	0.025	3.000	Pass
			RB12#13	18.67	-2.6	-4.75	13.92	0.025	3.000	Pass
			RB25#0	18.72	-2.6	-4.75	13.97	0.025	3.000	Pass
	MCH	QPSK	RB1#0	23.54	-2.6	-4.75	18.79	0.076	3.000	Pass
			RB1#13	23.79	-2.6	-4.75	19.04	0.080	3.000	Pass
			RB1#24	23.64	-2.6	-4.75	18.89	0.077	3.000	Pass
			RB12#0	22.67	-2.6	-4.75	17.92	0.062	3.000	Pass
			RB12#6	22.68	-2.6	-4.75	17.93	0.062	3.000	Pass
			RB12#13	22.67	-2.6	-4.75	17.92	0.062	3.000	Pass
			RB25#0	22.7	-2.6	-4.75	17.95	0.062	3.000	Pass
		16-QAM	RB1#0	23.01	-2.6	-4.75	18.26	0.067	3.000	Pass
			RB1#13	22.93	-2.6	-4.75	18.18	0.066	3.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBm)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE Band 14										
			RB1#24	22.93	-2.6	-4.75	18.18	0.066	3.000	Pass
			RB12#0	21.74	-2.6	-4.75	16.99	0.050	3.000	Pass
			RB12#6	21.72	-2.6	-4.75	16.97	0.050	3.000	Pass
			RB12#13	21.69	-2.6	-4.75	16.94	0.049	3.000	Pass
			RB25#0	21.75	-2.6	-4.75	17.00	0.050	3.000	Pass
		64QAM	RB1#0	21.87	-2.6	-4.75	17.12	0.052	3.000	Pass
			RB1#13	21.86	-2.6	-4.75	17.11	0.051	3.000	Pass
			RB1#24	21.79	-2.6	-4.75	17.04	0.051	3.000	Pass
			RB12#0	20.76	-2.6	-4.75	16.01	0.040	3.000	Pass
			RB12#6	20.77	-2.6	-4.75	16.02	0.040	3.000	Pass
			RB12#13	20.73	-2.6	-4.75	15.98	0.040	3.000	Pass
			RB25#0	20.73	-2.6	-4.75	15.98	0.040	3.000	Pass
		256QAM	RB1#0	18.73	-2.6	-4.75	13.98	0.025	3.000	Pass
			RB1#13	18.79	-2.6	-4.75	14.04	0.025	3.000	Pass
			RB1#24	18.7	-2.6	-4.75	13.95	0.025	3.000	Pass
			RB12#0	18.7	-2.6	-4.75	13.95	0.025	3.000	Pass
			RB12#6	18.67	-2.6	-4.75	13.92	0.025	3.000	Pass
			RB12#13	18.63	-2.6	-4.75	13.88	0.024	3.000	Pass
			RB25#0	18.69	-2.6	-4.75	13.94	0.025	3.000	Pass
	HCH	QPSK	RB1#0	23.76	-2.6	-4.75	19.01	0.080	3.000	Pass
			RB1#13	23.72	-2.6	-4.75	18.97	0.079	3.000	Pass
			RB1#24	23.66	-2.6	-4.75	18.91	0.078	3.000	Pass
			RB12#0	22.69	-2.6	-4.75	17.94	0.062	3.000	Pass
			RB12#6	22.68	-2.6	-4.75	17.93	0.062	3.000	Pass
			RB12#13	22.61	-2.6	-4.75	17.86	0.061	3.000	Pass
			RB25#0	22.7	-2.6	-4.75	17.95	0.062	3.000	Pass
		16-QAM	RB1#0	22.94	-2.6	-4.75	18.19	0.066	3.000	Pass
			RB1#13	22.83	-2.6	-4.75	18.08	0.064	3.000	Pass
			RB1#24	22.92	-2.6	-4.75	18.17	0.066	3.000	Pass
			RB12#0	21.72	-2.6	-4.75	16.97	0.050	3.000	Pass
			RB12#6	21.72	-2.6	-4.75	16.97	0.050	3.000	Pass
			RB12#13	21.68	-2.6	-4.75	16.93	0.049	3.000	Pass
			RB25#0	21.72	-2.6	-4.75	16.97	0.050	3.000	Pass
		64QAM	RB1#0	21.83	-2.6	-4.75	17.08	0.051	3.000	Pass
			RB1#13	21.92	-2.6	-4.75	17.17	0.052	3.000	Pass
			RB1#24	21.81	-2.6	-4.75	17.06	0.051	3.000	Pass
			RB12#0	20.77	-2.6	-4.75	16.02	0.040	3.000	Pass
			RB12#6	20.73	-2.6	-4.75	15.98	0.040	3.000	Pass

Test BW	Test Channel	Test Mode	Test RB (Size#Off set)	Conducted Output AV Power (dBm)	Antenn a Gain (dBm)	Antenn a Gain (dBd)	ERP (dBm)	ERP (W)	Limit (W)	Verdict
LTE Band 14										
			RB12#13	20.68	-2.6	-4.75	15.93	0.039	3.000	Pass
			RB25#0	20.71	-2.6	-4.75	15.96	0.039	3.000	Pass
		256QAM	RB1#0	18.78	-2.6	-4.75	14.03	0.025	3.000	Pass
			RB1#13	18.79	-2.6	-4.75	14.04	0.025	3.000	Pass
			RB1#24	18.73	-2.6	-4.75	13.98	0.025	3.000	Pass
			RB12#0	18.65	-2.6	-4.75	13.90	0.025	3.000	Pass
			RB12#6	18.65	-2.6	-4.75	13.90	0.025	3.000	Pass
			RB12#13	18.62	-2.6	-4.75	13.87	0.024	3.000	Pass
			RB25#0	18.67	-2.6	-4.75	13.92	0.025	3.000	Pass
10 MHz	MCH	QPSK	RB1#0	23.66	-2.6	-4.75	18.91	0.078	3.000	Pass
			RB1#25	23.6	-2.6	-4.75	18.85	0.077	3.000	Pass
			RB1#49	23.64	-2.6	-4.75	18.89	0.077	3.000	Pass
			RB25#0	22.66	-2.6	-4.75	17.91	0.062	3.000	Pass
			RB25#13	22.65	-2.6	-4.75	17.90	0.062	3.000	Pass
			RB25#25	22.64	-2.6	-4.75	17.89	0.062	3.000	Pass
			RB50#0	22.65	-2.6	-4.75	17.90	0.062	3.000	Pass
		16-QAM	RB1#0	22.91	-2.6	-4.75	18.16	0.065	3.000	Pass
			RB1#25	22.97	-2.6	-4.75	18.22	0.066	3.000	Pass
			RB1#49	22.81	-2.6	-4.75	18.06	0.064	3.000	Pass
			RB25#0	21.75	-2.6	-4.75	17.00	0.050	3.000	Pass
			RB25#13	21.72	-2.6	-4.75	16.97	0.050	3.000	Pass
			RB25#25	21.69	-2.6	-4.75	16.94	0.049	3.000	Pass
			RB50#0	21.71	-2.6	-4.75	16.96	0.050	3.000	Pass
		64QAM	RB1#0	21.89	-2.6	-4.75	17.14	0.052	3.000	Pass
			RB1#25	21.85	-2.6	-4.75	17.10	0.051	3.000	Pass
			RB1#49	21.74	-2.6	-4.75	16.99	0.050	3.000	Pass
			RB25#0	20.74	-2.6	-4.75	15.99	0.040	3.000	Pass
			RB25#13	20.71	-2.6	-4.75	15.96	0.039	3.000	Pass
			RB25#25	20.68	-2.6	-4.75	15.93	0.039	3.000	Pass
			RB50#0	20.71	-2.6	-4.75	15.96	0.039	3.000	Pass
		256QAM	RB1#0	18.77	-2.6	-4.75	14.02	0.025	3.000	Pass
			RB1#25	18.84	-2.6	-4.75	14.09	0.026	3.000	Pass
			RB1#49	18.72	-2.6	-4.75	13.97	0.025	3.000	Pass
			RB25#0	18.69	-2.6	-4.75	13.94	0.025	3.000	Pass
			RB25#13	18.67	-2.6	-4.75	13.92	0.025	3.000	Pass
			RB25#25	18.65	-2.6	-4.75	13.90	0.025	3.000	Pass
			RB50#0	18.67	-2.6	-4.75	13.92	0.025	3.000	Pass

NR Mode Test Data

Test BW	Test Channel	Test Mode	UL RB Number	UL RB Position	Conducted Output AV Power(dBm)	ERP (W)	Limit (W)	Verdict
NR Band n14								
5	LCH	PI/2 BPSK	12	6	23.7	0.079	3.000	Pass
			1	1	23.6	0.077	3.000	Pass
			1	23	23.63	0.077	3.000	Pass
		QPSK	12	6	23.75	0.079	3.000	Pass
			1	1	23.51	0.075	3.000	Pass
			1	23	23.61	0.077	3.000	Pass
		16QAM	12	6	22.82	0.064	3.000	Pass
			1	1	23.03	0.067	3.000	Pass
			1	23	22.92	0.066	3.000	Pass
		64QAM	12	6	21.38	0.046	3.000	Pass
			1	1	21.53	0.048	3.000	Pass
			1	23	21.45	0.047	3.000	Pass
		256QAM	12	6	19.36	0.029	3.000	Pass
			1	1	19.29	0.028	3.000	Pass
			1	23	19.23	0.028	3.000	Pass
	MCH	PI/2 BPSK	12	6	23.74	0.079	3.000	Pass
			1	1	23.58	0.076	3.000	Pass
			1	23	23.64	0.077	3.000	Pass
		QPSK	12	6	23.78	0.080	3.000	Pass
			1	1	23.53	0.076	3.000	Pass
			1	23	23.57	0.076	3.000	Pass
		16QAM	12	6	22.77	0.063	3.000	Pass
			1	1	22.94	0.066	3.000	Pass
			1	23	22.92	0.066	3.000	Pass
		64QAM	12	6	21.36	0.046	3.000	Pass
			1	1	21.41	0.046	3.000	Pass
			1	23	21.42	0.046	3.000	Pass
		256QAM	12	6	19.31	0.029	3.000	Pass
			1	1	19.24	0.028	3.000	Pass
			1	23	19.19	0.028	3.000	Pass
	HCH	PI/2 BPSK	12	6	23.77	0.080	3.000	Pass
			1	1	23.68	0.078	3.000	Pass
			1	23	23.65	0.078	3.000	Pass
		QPSK	12	6	23.8	0.080	3.000	Pass
			1	1	23.67	0.078	3.000	Pass
			1	23	23.58	0.076	3.000	Pass
		16QAM	12	6	22.82	0.064	3.000	Pass
			1	1	22.94	0.066	3.000	Pass

			1	23	22.94	0.066	3.000	Pass
		64QAM	12	6	21.38	0.046	3.000	Pass
			1	1	21.5	0.047	3.000	Pass
			1	23	21.45	0.047	3.000	Pass
		256QAM	12	6	19.33	0.029	3.000	Pass
			1	1	19.27	0.028	3.000	Pass
			1	23	19.23	0.028	3.000	Pass
10	MCH	PI/2 BPSK	25	12	23.72	0.079	3.000	Pass
			1	1	23.62	0.077	3.000	Pass
			1	50	23.63	0.077	3.000	Pass
		QPSK	25	12	23.74	0.079	3.000	Pass
			1	1	23.51	0.075	3.000	Pass
			1	50	23.56	0.076	3.000	Pass
		16QAM	25	12	22.82	0.064	3.000	Pass
			1	1	23.06	0.068	3.000	Pass
			1	50	22.93	0.066	3.000	Pass
		64QAM	25	12	21.32	0.045	3.000	Pass
			1	1	21.55	0.048	3.000	Pass
			1	50	21.5	0.047	3.000	Pass
		256QAM	25	12	19.22	0.028	3.000	Pass
			1	1	19.28	0.028	3.000	Pass
			1	50	19.2	0.028	3.000	Pass

Test BW	Test Channel	Test Mode	UL RB Number	UL RB Position	Conducted Output AV Power(dBm)	ERP (W)	Limit (W)	Verdict
NR Band n71								
5	LCH	PI/2 BPSK	12	6	22.99	0.062	3.000	Pass
			1	1	22.96	0.062	3.000	Pass
			1	23	22.96	0.062	3.000	Pass
		QPSK	12	6	23.08	0.064	3.000	Pass
			1	1	22.9	0.061	3.000	Pass
			1	23	22.9	0.061	3.000	Pass
		16QAM	12	6	21.99	0.049	3.000	Pass
			1	1	22.12	0.051	3.000	Pass
			1	23	22.09	0.051	3.000	Pass
		64QAM	12	6	20.56	0.036	3.000	Pass
			1	1	20.64	0.036	3.000	Pass
			1	23	20.65	0.036	3.000	Pass
		256QAM	12	6	18.54	0.022	3.000	Pass
			1	1	18.43	0.022	3.000	Pass
			1	23	18.42	0.022	3.000	Pass
	MCH	PI/2 BPSK	12	6	23.04	0.063	3.000	Pass
			1	1	23.02	0.063	3.000	Pass
			1	23	22.93	0.061	3.000	Pass
		QPSK	12	6	23.08	0.064	3.000	Pass
			1	1	22.95	0.062	3.000	Pass
			1	23	22.93	0.061	3.000	Pass
		16QAM	12	6	22	0.050	3.000	Pass
			1	1	22.12	0.051	3.000	Pass
			1	23	22.08	0.050	3.000	Pass
		64QAM	12	6	20.56	0.036	3.000	Pass
			1	1	20.6	0.036	3.000	Pass
			1	23	20.58	0.036	3.000	Pass
		256QAM	12	6	18.52	0.022	3.000	Pass
			1	1	18.47	0.022	3.000	Pass
			1	23	18.39	0.022	3.000	Pass
	HCH	PI/2 BPSK	12	6	23.04	0.063	3.000	Pass
			1	1	22.91	0.061	3.000	Pass
			1	23	22.92	0.061	3.000	Pass
		QPSK	12	6	23.12	0.064	3.000	Pass
			1	1	22.89	0.061	3.000	Pass
			1	23	22.86	0.060	3.000	Pass
		16QAM	12	6	22	0.050	3.000	Pass
			1	1	22.11	0.051	3.000	Pass

10	LCH	64QAM	1	23	22.08	0.050	3.000	Pass
			12	6	20.57	0.036	3.000	Pass
			1	1	20.6	0.036	3.000	Pass
			1	23	20.58	0.036	3.000	Pass
		256QAM	12	6	18.56	0.022	3.000	Pass
			1	1	18.42	0.022	3.000	Pass
			1	23	18.35	0.021	3.000	Pass
	MCH	PI/2 BPSK	25	12	22.97	0.062	3.000	Pass
			1	1	22.96	0.062	3.000	Pass
			1	50	22.98	0.062	3.000	Pass
		QPSK	25	12	22.98	0.062	3.000	Pass
			1	1	22.87	0.061	3.000	Pass
			1	50	22.91	0.061	3.000	Pass
		16QAM	25	12	22.01	0.050	3.000	Pass
			1	1	22.1	0.051	3.000	Pass
			1	50	22.1	0.051	3.000	Pass
		64QAM	25	12	20.53	0.035	3.000	Pass
			1	1	20.66	0.036	3.000	Pass
			1	50	20.66	0.036	3.000	Pass
		256QAM	25	12	18.41	0.022	3.000	Pass
			1	1	18.38	0.022	3.000	Pass
			1	50	18.46	0.022	3.000	Pass
		PI/2 BPSK	25	12	22.98	0.062	3.000	Pass
			1	1	22.93	0.061	3.000	Pass
			1	50	22.95	0.062	3.000	Pass
		QPSK	25	12	22.97	0.062	3.000	Pass
			1	1	22.93	0.061	3.000	Pass
			1	50	22.9	0.061	3.000	Pass
		16QAM	25	12	21.98	0.049	3.000	Pass
			1	1	22.04	0.050	3.000	Pass
			1	50	22.15	0.051	3.000	Pass
		64QAM	25	12	20.53	0.035	3.000	Pass
			1	1	20.59	0.036	3.000	Pass
			1	50	20.64	0.036	3.000	Pass
		256QAM	25	12	18.42	0.022	3.000	Pass
			1	1	18.39	0.022	3.000	Pass
			1	50	18.44	0.022	3.000	Pass
HCH	HCH	PI/2 BPSK	25	12	22.9	0.061	3.000	Pass
			1	1	22.84	0.060	3.000	Pass
			1	50	22.9	0.061	3.000	Pass
		QPSK	25	12	22.94	0.062	3.000	Pass
			1	1	22.89	0.061	3.000	Pass
			1	50	22.86	0.060	3.000	Pass

		16QAM	25	12	21.97	0.049	3.000	Pass
			1	1	22.1	0.051	3.000	Pass
			1	50	22.05	0.050	3.000	Pass
		64QAM	25	12	20.48	0.035	3.000	Pass
			1	1	20.66	0.036	3.000	Pass
			1	50	20.56	0.036	3.000	Pass
		256QAM	25	12	18.35	0.021	3.000	Pass
			1	1	18.39	0.022	3.000	Pass
			1	50	18.33	0.021	3.000	Pass
15	LCH	PI/2 BPSK	36	18	23	0.062	3.000	Pass
			1	1	22.92	0.061	3.000	Pass
			1	77	22.9	0.061	3.000	Pass
		QPSK	36	18	23	0.062	3.000	Pass
			1	1	22.87	0.061	3.000	Pass
			1	77	22.9	0.061	3.000	Pass
		16QAM	36	18	22.06	0.050	3.000	Pass
			1	1	22.07	0.050	3.000	Pass
			1	77	22.05	0.050	3.000	Pass
		64QAM	36	18	20.56	0.036	3.000	Pass
			1	1	20.63	0.036	3.000	Pass
			1	77	20.62	0.036	3.000	Pass
		256QAM	36	18	18.44	0.022	3.000	Pass
			1	1	18.37	0.021	3.000	Pass
			1	77	18.37	0.021	3.000	Pass
	MCH	PI/2 BPSK	36	18	23.01	0.063	3.000	Pass
			1	1	22.99	0.062	3.000	Pass
			1	77	22.91	0.061	3.000	Pass
		QPSK	36	18	23.08	0.064	3.000	Pass
			1	1	22.91	0.061	3.000	Pass
			1	77	22.85	0.060	3.000	Pass
		16QAM	36	18	22.02	0.050	3.000	Pass
			1	1	22.07	0.050	3.000	Pass
			1	77	22.08	0.050	3.000	Pass
		64QAM	36	18	20.53	0.035	3.000	Pass
			1	1	20.61	0.036	3.000	Pass
			1	77	20.58	0.036	3.000	Pass
		256QAM	36	18	18.44	0.022	3.000	Pass
			1	1	18.42	0.022	3.000	Pass
			1	77	18.37	0.021	3.000	Pass
	HCH	PI/2 BPSK	36	18	22.97	0.062	3.000	Pass
			1	1	22.92	0.061	3.000	Pass
			1	77	22.9	0.061	3.000	Pass
		QPSK	36	18	22.99	0.062	3.000	Pass

			1	1	22.84	0.060	3.000	Pass
			1	77	22.85	0.060	3.000	Pass
			36	18	22.02	0.050	3.000	Pass
		16QAM	1	1	22.11	0.051	3.000	Pass
			1	77	22.09	0.051	3.000	Pass
		64QAM	36	18	20.53	0.035	3.000	Pass
			1	1	20.58	0.036	3.000	Pass
			1	77	20.62	0.036	3.000	Pass
		256QAM	36	18	18.43	0.022	3.000	Pass
			1	1	18.38	0.022	3.000	Pass
			1	77	18.37	0.021	3.000	Pass
20	LCH	PI/2 BPSK	50	25	23.04	0.063	3.000	Pass
			1	1	22.9	0.061	3.000	Pass
			1	104	22.92	0.061	3.000	Pass
		QPSK	50	25	23.03	0.063	3.000	Pass
			1	1	22.87	0.061	3.000	Pass
			1	104	22.91	0.061	3.000	Pass
		16QAM	50	25	22.04	0.050	3.000	Pass
			1	1	22.06	0.050	3.000	Pass
			1	104	22.07	0.050	3.000	Pass
		64QAM	50	25	20.55	0.035	3.000	Pass
			1	1	20.6	0.036	3.000	Pass
			1	104	20.59	0.036	3.000	Pass
		256QAM	50	25	18.48	0.022	3.000	Pass
			1	1	18.41	0.022	3.000	Pass
			1	104	18.43	0.022	3.000	Pass
	MCH	PI/2 BPSK	50	25	23.02	0.063	3.000	Pass
			1	1	22.95	0.062	3.000	Pass
			1	104	22.96	0.062	3.000	Pass
		QPSK	50	25	23.03	0.063	3.000	Pass
			1	1	22.96	0.062	3.000	Pass
			1	104	22.89	0.061	3.000	Pass
		16QAM	50	25	22.04	0.050	3.000	Pass
			1	1	22.12	0.051	3.000	Pass
			1	104	22.13	0.051	3.000	Pass
		64QAM	50	25	20.49	0.035	3.000	Pass
			1	1	20.64	0.036	3.000	Pass
			1	104	20.58	0.036	3.000	Pass
		256QAM	50	25	18.51	0.022	3.000	Pass
			1	1	18.45	0.022	3.000	Pass
			1	104	18.46	0.022	3.000	Pass
	HCH	PI/2 BPSK	50	25	23	0.062	3.000	Pass
			1	1	23.03	0.063	3.000	Pass

			1	104	22.91	0.061	3.000	Pass
		QPSK	50	25	23.03	0.063	3.000	Pass
			1	1	22.96	0.062	3.000	Pass
			1	104	22.85	0.060	3.000	Pass
		16QAM	50	25	22.06	0.050	3.000	Pass
			1	1	22.12	0.051	3.000	Pass
			1	104	22.06	0.050	3.000	Pass
		64QAM	50	25	20.52	0.035	3.000	Pass
			1	1	20.65	0.036	3.000	Pass
			1	104	20.59	0.036	3.000	Pass
		256QAM	50	25	18.47	0.022	3.000	Pass
			1	1	18.48	0.022	3.000	Pass
			1	104	18.38	0.022	3.000	Pass
25	LCH	PI/2 BPSK	64	32	23.05	0.063	3.000	Pass
			1	1	22.89	0.061	3.000	Pass
			1	131	22.85	0.060	3.000	Pass
		QPSK	64	32	23.06	0.063	3.000	Pass
			1	1	22.87	0.061	3.000	Pass
			1	131	22.8	0.060	3.000	Pass
		16QAM	64	32	22.02	0.050	3.000	Pass
			1	1	22.04	0.050	3.000	Pass
			1	131	21.97	0.049	3.000	Pass
		64QAM	64	32	20.57	0.036	3.000	Pass
			1	1	20.55	0.035	3.000	Pass
			1	131	20.52	0.035	3.000	Pass
		256QAM	64	32	18.51	0.022	3.000	Pass
			1	1	18.35	0.021	3.000	Pass
			1	131	18.37	0.021	3.000	Pass
	MCH	PI/2 BPSK	64	32	23.02	0.063	3.000	Pass
			1	1	22.84	0.060	3.000	Pass
			1	131	22.78	0.059	3.000	Pass
		QPSK	64	32	23.02	0.063	3.000	Pass
			1	1	22.82	0.060	3.000	Pass
			1	131	22.71	0.058	3.000	Pass
		16QAM	64	32	21.96	0.049	3.000	Pass
			1	1	21.97	0.049	3.000	Pass
			1	131	21.93	0.049	3.000	Pass
		64QAM	64	32	20.52	0.035	3.000	Pass
			1	1	20.53	0.035	3.000	Pass
			1	131	20.47	0.035	3.000	Pass
		256QAM	64	32	18.46	0.022	3.000	Pass
			1	1	18.34	0.021	3.000	Pass
			1	131	18.27	0.021	3.000	Pass

	HCH	PI/2 BPSK	64	32	23.02	0.063	3.000	Pass
			1	1	22.9	0.061	3.000	Pass
			1	131	22.83	0.060	3.000	Pass
		QPSK	64	32	23.02	0.063	3.000	Pass
			1	1	22.87	0.061	3.000	Pass
			1	131	22.75	0.059	3.000	Pass
		16QAM	64	32	22	0.050	3.000	Pass
			1	1	22	0.050	3.000	Pass
			1	131	22.03	0.050	3.000	Pass
		64QAM	64	32	20.53	0.035	3.000	Pass
			1	1	20.52	0.035	3.000	Pass
			1	131	20.53	0.035	3.000	Pass
		256QAM	64	32	18.47	0.022	3.000	Pass
			1	1	18.36	0.021	3.000	Pass
			1	131	18.3	0.021	3.000	Pass
30	LCH	PI/2 BPSK	80	40	23.01	0.063	3.000	Pass
			1	1	22.9	0.061	3.000	Pass
			1	158	22.8	0.060	3.000	Pass
		QPSK	80	40	23.02	0.063	3.000	Pass
			1	1	22.83	0.060	3.000	Pass
			1	158	22.7	0.058	3.000	Pass
		16QAM	80	40	21.98	0.049	3.000	Pass
			1	1	22.04	0.050	3.000	Pass
			1	158	21.98	0.049	3.000	Pass
		64QAM	80	40	20.51	0.035	3.000	Pass
			1	1	20.58	0.036	3.000	Pass
			1	158	20.49	0.035	3.000	Pass
		256QAM	80	40	18.47	0.022	3.000	Pass
			1	1	18.36	0.021	3.000	Pass
			1	158	18.28	0.021	3.000	Pass
	MCH	PI/2 BPSK	80	40	22.99	0.062	3.000	Pass
			1	1	22.89	0.061	3.000	Pass
			1	158	22.8	0.060	3.000	Pass
		QPSK	80	40	23.01	0.063	3.000	Pass
			1	1	22.82	0.060	3.000	Pass
			1	158	22.73	0.059	3.000	Pass
		16QAM	80	40	22	0.050	3.000	Pass
			1	1	22	0.050	3.000	Pass
			1	158	21.95	0.049	3.000	Pass
		64QAM	80	40	20.46	0.035	3.000	Pass
			1	1	20.56	0.036	3.000	Pass
			1	158	20.49	0.035	3.000	Pass
		256QAM	80	40	18.44	0.022	3.000	Pass

			1	1	18.35	0.021	3.000	Pass
			1	158	18.26	0.021	3.000	Pass
	HCH	PI/2 BPSK	80	40	22.94	0.062	3.000	Pass
			1	1	22.85	0.060	3.000	Pass
			1	158	22.8	0.060	3.000	Pass
		QPSK	80	40	22.96	0.062	3.000	Pass
			1	1	22.82	0.060	3.000	Pass
			1	158	22.79	0.059	3.000	Pass
		16QAM	80	40	21.95	0.049	3.000	Pass
			1	1	21.95	0.049	3.000	Pass
			1	158	21.96	0.049	3.000	Pass
		64QAM	80	40	20.43	0.035	3.000	Pass
			1	1	20.48	0.035	3.000	Pass
			1	158	20.48	0.035	3.000	Pass
		256QAM	80	40	18.41	0.022	3.000	Pass
			1	1	18.29	0.021	3.000	Pass
			1	158	18.29	0.021	3.000	Pass
35	MCH	PI/2 BPSK	94	47	22.97	0.062	3.000	Pass
			1	1	22.87	0.061	3.000	Pass
			1	186	22.85	0.060	3.000	Pass
		QPSK	94	47	22.95	0.062	3.000	Pass
			1	1	22.76	0.059	3.000	Pass
			1	186	22.75	0.059	3.000	Pass
		16QAM	94	47	21.95	0.049	3.000	Pass
			1	1	21.96	0.049	3.000	Pass
			1	186	21.98	0.049	3.000	Pass
		64QAM	94	47	20.44	0.035	3.000	Pass
			1	1	20.58	0.036	3.000	Pass
			1	186	20.55	0.035	3.000	Pass
		256QAM	94	47	18.45	0.022	3.000	Pass
			1	1	18.3	0.021	3.000	Pass
			1	186	18.27	0.021	3.000	Pass

A.2 Peak to Average Ratio

Note 1: For average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB. For GSM, GPRS and EGPRS, there are peak power to demonstrate compliance, PAR measurements are not required.

Note 2: Test plots please refer to the document “Annex No.: Ti-CC26040191-501 Data Part 1.pdf”.

Note 3: All data other than the following shall refer to Chapter A.8 PEAK-TO-AVERAGE POWER RATIO of report No. 25T04Z100699-001 & 25T04Z100699-002 & 25T04Z100699-003, which was issued by CTTL-Telecommunication Technology Labs, CAICT on Jun. 18, 2025 and report No.25T04Z100699-004, which was issued by CTTL-Telecommunication Technology Labs, CAICT on Jun. 19, 2025.

LTE Mode Test Data

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Peak to Average Ratio (dB)	Limit (dB)	Verdict ^{Note2}
LTE Band 13	10 MHz	MCH	QPSK	RB1#0	3.8	13	Pass
				RB50#0	5.3	13	Pass
			16-QAM	RB1#0	4.73	13	Pass
				RB50#0	6.09	13	Pass
LTE Band 14	10 MHz	MCH	QPSK	RB1#0	4.12	13	Pass
				RB50#0	5.3	13	Pass
			16-QAM	RB1#0	5.06	13	Pass
				RB50#0	6.09	13	Pass

NR Mode Test Data

Test Band	NR Test Bandwidth	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	Peak to Average Ratio (dB)	Limit (dB)	Verdict ^{Note2}
n14	10 MHz	MCH	PI2 BPSK	1	0	3.8	13	Pass
				50	0	4.31	13	Pass
			QPSK	1	0	4.12	13	Pass
				50	0	5.25	13	Pass
			16QAM	1	0	5.02	13	Pass
				50	0	6.05	13	Pass
			64QAM	1	0	5.86	13	Pass
				50	0	6.28	13	Pass
			256QAM	1	0	6.66	13	Pass
				50	0	6.56	13	Pass
n71	20 MHz	LCH	PI2 BPSK	1	0	4.08	13	Pass
				100	0	4.5	13	Pass
			QPSK	1	0	5.11	13	Pass
				100	0	5.44	13	Pass
			16QAM	1	0	5.34	13	Pass
				100	0	6.23	13	Pass
			64QAM	1	0	6.19	13	Pass
				100	0	6.52	13	Pass
			256QAM	1	0	6.84	13	Pass
				100	0	6.61	13	Pass
		MCH	PI2 BPSK	1	0	4.27	13	Pass
				100	0	4.5	13	Pass
			QPSK	1	0	5.44	13	Pass
				100	0	5.39	13	Pass
			16QAM	1	0	5.48	13	Pass
				100	0	6.19	13	Pass
			64QAM	1	0	6.47	13	Pass
				100	0	6.47	13	Pass
			256QAM	1	0	6.89	13	Pass
				100	0	6.61	13	Pass
		HCH	PI2 BPSK	1	0	4.22	13	Pass
				100	0	4.22	13	Pass
			QPSK	1	0	5.39	13	Pass
				100	0	5.3	13	Pass
			16QAM	1	0	5.44	13	Pass
				100	0	6.09	13	Pass
			64QAM	1	0	6.47	13	Pass
				1	0	6.47	13	Pass

				100	0	6.37	13	Pass
			256QAM	1	0	6.8	13	Pass
				100	0	6.61	13	Pass

A.3 Occupied Bandwidth

Note 1: All modes were tested, but only the typical data were reported in this report.

Note 2: Test plots please refer to the document “Annex No.: Ti-CC26040191-501 Data Part 2.pdf”.

Note 3: All data other than the following shall refer to Chapter A.4 OCCUPIED BANDWIDTH & A.5 EMISSION BANDWIDTH of report No. 25T04Z100699-001 & 25T04Z100699-002 & 25T04Z100699-003, which was issued by CTTL-Telecommunication Technology Labs, CAICT on Jun. 18, 2025 and report No.25T04Z100699-004, which was issued by CTTL-Telecommunication Technology Labs, CAICT on Jun. 19, 2025.

LTE Mode Test Data

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Verdict ^{Note2}
Band 13	5 MHz	LCH	QPSK	RB25#0	4.482	4.936	Pass
			16-QAM	RB25#0	4.475	4.953	Pass
			64-QAM	RB25#0	4.49	4.922	Pass
			256-QAM	RB25#0	4.467	4.867	Pass
		MCH	QPSK	RB25#0	4.485	4.949	Pass
			16-QAM	RB25#0	4.489	4.929	Pass
			64-QAM	RB25#0	4.486	4.965	Pass
			256-QAM	RB25#0	4.477	4.916	Pass
		HCH	QPSK	RB25#0	4.49	4.96	Pass
			16-QAM	RB25#0	4.49	4.942	Pass
			64-QAM	RB25#0	4.496	4.943	Pass
			256-QAM	RB25#0	4.477	4.892	Pass
	10 MHz	MCH	QPSK	RB50#0	8.979	9.779	Pass
			16-QAM	RB50#0	8.944	9.688	Pass
			64-QAM	RB50#0	8.952	9.791	Pass
			256-QAM	RB50#0	8.939	9.625	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Verdict ^{Note2}
Band 14	5 MHz	LCH	QPSK	RB25#0	4.496	4.969	Pass
			16-QAM	RB25#0	4.49	4.931	Pass
			64-QAM	RB25#0	4.492	4.935	Pass
			256-QAM	RB25#0	4.485	4.913	Pass
		MCH	QPSK	RB25#0	4.488	4.968	Pass
			16-QAM	RB25#0	4.489	4.933	Pass
			64-QAM	RB25#0	4.496	4.937	Pass
			256-QAM	RB25#0	4.476	4.892	Pass
		HCH	QPSK	RB25#0	4.49	4.948	Pass
			16-QAM	RB25#0	4.489	4.933	Pass
			64-QAM	RB25#0	4.495	4.924	Pass
			256-QAM	RB25#0	4.478	4.88	Pass
	10 MHz	MCH	QPSK	RB50#0	8.98	9.778	Pass
			16-QAM	RB50#0	8.944	9.707	Pass
			64-QAM	RB50#0	8.966	9.807	Pass
			256-QAM	RB50#0	8.948	9.791	Pass

NR Mode Test Data

Test Band	NR Test Bandwidth	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Verdict ^{Note2}
n14 SCS=15kHz	5 MHz	LCH	QPSK	25	0	4.48	5.51	Pass
		MCH	QPSK	25	0	4.48	4.93	Pass
		HCH	QPSK	25	0	4.48	4.91	Pass
		LCH	16QAM	25	0	4.49	4.88	Pass
		MCH	16QAM	25	0	4.49	5.81	Pass
		HCH	16QAM	25	0	4.49	5.15	Pass
		LCH	64QAM	25	0	4.49	5.45	Pass
		MCH	64QAM	25	0	4.51	5.47	Pass
		HCH	64QAM	25	0	4.49	5.46	Pass
		LCH	256QAM	25	0	4.47	4.87	Pass
		MCH	256QAM	25	0	4.48	4.92	Pass
		HCH	256QAM	25	0	4.47	5.15	Pass
	10 MHz	MCH	QPSK	52	0	9.02	9.69	Pass
		MCH	16QAM	52	0	9.37	10.15	Pass
		MCH	64QAM	52	0	9.39	11.35	Pass
		MCH	256QAM	52	0	9.37	10.05	Pass

Test Band	NR Test Bandwidth	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	Measured 99% Occupied Bandwidth (MHz)	Measured -26 dB Occupied Bandwidth (MHz)	Verdict ^{Note2}
n71 SCS=15kHz	5 MHz	LCH	QPSK	25	0	4.49	5.69	Pass
		MCH	QPSK	25	0	4.5	4.97	Pass
		HCH	QPSK	25	0	4.49	5.3	Pass
		LCH	16QAM	25	0	4.5	5.6	Pass
		MCH	16QAM	25	0	4.49	4.89	Pass
		HCH	16QAM	25	0	4.49	4.99	Pass
		LCH	64QAM	25	0	4.49	5.38	Pass
		MCH	64QAM	25	0	4.48	4.91	Pass
		HCH	64QAM	25	0	4.5	5.38	Pass
		LCH	256QAM	25	0	4.48	5.04	Pass
		MCH	256QAM	25	0	4.47	4.97	Pass
		HCH	256QAM	25	0	4.48	4.94	Pass
	10 MHz	LCH	QPSK	52	0	9.34	10.16	Pass
		MCH	QPSK	52	0	9.35	10.11	Pass
		HCH	QPSK	52	0	9.35	10.09	Pass
		LCH	16QAM	52	0	9.32	10.09	Pass
		MCH	16QAM	52	0	9.35	10.3	Pass
		HCH	16QAM	52	0	9.34	10.5	Pass
		LCH	64QAM	52	0	9.34	10.06	Pass
		MCH	64QAM	52	0	9.37	10.07	Pass
		HCH	64QAM	52	0	9.38	10.06	Pass
		LCH	256QAM	52	0	9.35	10.04	Pass
		MCH	256QAM	52	0	9.37	10.08	Pass
		HCH	256QAM	52	0	9.36	10.05	Pass
	15 MHz	LCH	QPSK	79	0	14.09	14.92	Pass
		MCH	QPSK	79	0	14.15	15.51	Pass
		HCH	QPSK	79	0	14.11	15.32	Pass
		LCH	16QAM	79	0	14.13	14.96	Pass
		MCH	16QAM	79	0	14.19	14.98	Pass
		HCH	16QAM	79	0	14.17	15.29	Pass
		LCH	64QAM	79	0	14.16	16.04	Pass
		MCH	64QAM	79	0	14.18	15.5	Pass
		HCH	64QAM	79	0	14.17	15.93	Pass
		LCH	256QAM	79	0	14.12	14.93	Pass
		MCH	256QAM	79	0	14.17	14.95	Pass
		HCH	256QAM	79	0	14.13	14.92	Pass
	20 MHz	LCH	QPSK	106	0	18.91	19.83	Pass

		MCH	QPSK	106	0	18.93	19.87	Pass
		HCH	QPSK	106	0	18.86	19.84	Pass
		LCH	16QAM	106	0	18.91	19.82	Pass
		MCH	16QAM	106	0	18.91	19.87	Pass
		HCH	16QAM	106	0	18.87	19.84	Pass
		LCH	64QAM	106	0	18.94	19.82	Pass
		MCH	64QAM	106	0	18.96	19.88	Pass
		HCH	64QAM	106	0	18.93	19.83	Pass
		LCH	256QAM	106	0	18.91	19.87	Pass
		MCH	256QAM	106	0	18.88	19.88	Pass
		HCH	256QAM	106	0	18.84	19.85	Pass
	25 MHz	LCH	QPSK	133	0	24.16	32.85	Pass
		MCH	QPSK	133	0	24.16	32.15	Pass
		HCH	QPSK	133	0	24.07	26.84	Pass
		LCH	16QAM	133	0	24.14	26.35	Pass
		MCH	16QAM	133	0	24.1	27.25	Pass
		HCH	16QAM	133	0	24.02	27.29	Pass
		LCH	64QAM	133	0	24.19	26.16	Pass
		MCH	64QAM	133	0	24.2	26.14	Pass
		HCH	64QAM	133	0	24.11	26.1	Pass
		LCH	256QAM	133	0	24.11	26.12	Pass
		MCH	256QAM	133	0	24.03	26.08	Pass
		HCH	256QAM	133	0	23.97	26.01	Pass
	30 MHz	LCH	QPSK	160	0	28.8	32.19	Pass
		MCH	QPSK	160	0	28.82	33.21	Pass
		HCH	QPSK	160	0	28.8	32.19	Pass
		LCH	16QAM	160	0	28.74	31.91	Pass
		MCH	16QAM	160	0	28.74	30.99	Pass
		HCH	16QAM	160	0	28.77	31.84	Pass
		LCH	64QAM	160	0	28.84	31.01	Pass
		MCH	64QAM	160	0	28.79	30.94	Pass
		HCH	64QAM	160	0	28.85	31.04	Pass
		LCH	256QAM	160	0	28.79	31.48	Pass
		MCH	256QAM	160	0	28.79	31.01	Pass
		HCH	256QAM	160	0	28.84	30.97	Pass
	35 MHz	MCH	QPSK	188	0	33.57	35.98	Pass
		MCH	16QAM	188	0	33.83	36.08	Pass
		MCH	64QAM	188	0	33.75	36.03	Pass
		MCH	256QAM	188	0	33.61	36.33	Pass

A.4 Frequency Stability

Note: All data other than the following shall refer to Chapter A.3 FREQUENCY STABILITY of report No. 25T04Z100699-001 & 25T04Z100699-002 & 25T04Z100699-003, which was issued by CTTL-Telecommunication Technology Labs, CAICT on Jun. 18, 2025 and report No.25T04Z100699-004, which was issued by CTTL-Telecommunication Technology Labs, CAICT on Jun. 19, 2025.

LTE Band 13 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 782 MHz		
		Value(Hz)	Limits (Hz)	
3.85	-30	-2.17	±1,955	Pass
	-20	-4.68		
	-10	-0.43		
	0	-0.82		
	10	-1.22		
	20	0.74		
	25	-1.77		
	30	-2.63		
	40	-4.08		
	50	-3.35		
4.4	25	-5.19		
3.4	25	-2.9		

LTE Band 13 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 782 MHz		
		Value(Hz)	Limits (Hz)	
3.85	-30	-2.46	±1,955	Pass
	-20	-1.67		
	-10	-4.56		
	0	-4.89		
	10	-2.98		
	20	-2.05		
	25	-2.7		
	30	-3.1		
	40	-4.94		
	50	-4.33		
4.4	25	-5.42		

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 782 MHz		
		Value(Hz)	Limits (Hz)	
3.4	25	0.23		

LTE Band 14 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 793 MHz		
		Value(Hz)	Limits (Hz)	
3.85	-30	-1.32	±1,982.5	Pass
	-20	0.56		
	-10	-1.9		
	0	-0.36		
	10	-1.29		
	20	-3.33		
	25	1.12		
	30	0.33		
	40	-2.95		
	50	-0.69		
4.4	25	-4.06	±1,982.5	Pass
3.4	25	-2.69		

LTE Band 14 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 793 MHz		
		Value(Hz)	Limits (Hz)	
3.85	-30	-1.37	±1,982.5	Pass
	-20	-1.59		
	-10	-2.17		
	0	-0.96		
	10	-2.23		
	20	-2.53		
	25	3.85		
	30	-4.55		
	40	1.19		
	50	-2.19		
4.4	25	-3.08	±1,982.5	Pass
3.4	25	-2.68		

NR Band n14 QPSK 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 793 MHz		
		Value(Hz)	Limits (Hz)	
3.85	-30	-1.6	±1,982.5	Pass
	-20	-4		
	-10	-1.9		
	0	-3.7		
	10	-3		
	20	-2		
	25	2.4		
	30	-2.5		
	40	1.9		
	50	3.1		
4.4	25	1.2		
8	25	-3.3		

NR Band n14 16QAM 10 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 793 MHz		
		Value(Hz)	Limits (Hz)	
3.85	-30	1.7	±1,982.5	Pass
	-20	1.8		
	-10	2.6		
	0	-4.4		
	10	2.5		
	20	-2.9		
	25	-2.3		
	30	-2.9		
	40	-4		
	50	-2.1		
4.4	25	-2.2		
8	25	-1.8		

NR Band n71 QPSK 35 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 680.5 MHz		
		Value(Hz)	Limits (Hz)	
3.85	-30	-7.1	±1,701.25	Pass
	-20	-7.1		
	-10	-8		
	0	-7.7		
	10	-5.3		
	20	-4.7		
	25	-4.3		
	30	-8.1		
	40	-6.8		
	50	-5.4		
4.4	25	-4.7		
3	25	-5.2		

NR Band n71 16QAM 35 MHz

Test Conditions		Frequency Deviation		Verdict
Power (VDC)	Temperature (°C)	MCH 680.5 MHz		
		Value(Hz)	Limits (Hz)	
3.85	-30	-7.6	±1,701.25	Pass
	-20	-9.3		
	-10	-8.7		
	0	-5.1		
	10	-4.9		
	20	-5.7		
	25	-6.8		
	30	-4.3		
	40	-5.7		
	50	-5.1		
4.4	25	-3.6		
3	25	-7.7		

A.5 Spurious Emission at Antenna Terminals

Note 1: GSM and EGPRS modes have been verified, and only the worst data with different bandwidth for LTE are shown here.

Note 2: The frequencies of verdict which are marked by "N/A" should be ignored because they are UE carrier frequency.

Note 3: Test plots please refer to the document "Annex No.: Ti-CC26040191-501 Data Part 3.pdf".

Note 4: The disturbance above 26.5GHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

Note 5: All data other than the following shall refer to Chapter A.7 CONDUCTED SPURIOUS EMISSION of report No. 25T04Z100699-001 & 25T04Z100699-002 & 25T04Z100699-003, which was issued by CTTL-Telecommunication Technology Labs, CAICT on Jun. 18, 2025 and report No.25T04Z100699-004, which was issued by CTTL-Telecommunication Technology Labs, CAICT on Jun. 19, 2025.

LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict ^{Note3}
Band 13	5 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	10 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict ^{Note3}
Band 14	5 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
	10 MHz	LCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict ^{Note3}
		MCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass
		HCH	QPSK	RB1#0	Pass
			16-QAM	RB1#0	Pass

NR Mode Test Verdict

Test Band	NR Test Bandwidth (MHz)	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	Verdict Note3
n14	5	LCH	QPSK	25	0	Pass
			16QAM	25	0	Pass
			64QAM	25	0	Pass
			256QAM	25	0	Pass
		MCH	QPSK	25	0	Pass
			16QAM	25	0	Pass
			64QAM	25	0	Pass
			256QAM	25	0	Pass
		HCH	QPSK	25	0	Pass
			16QAM	25	0	Pass
			64QAM	25	0	Pass
			256QAM	25	0	Pass
	10	MCH	QPSK	52	0	Pass
			16QAM	52	0	Pass
			64QAM	52	0	Pass
			256QAM	52	0	Pass

Test Band	NR Test Bandwidth (MHz)	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	Verdict Note3
n71	5	LCH	QPSK	25	0	Pass
			QPSK	1	0	Pass
			QPSK	1	24	Pass
		MCH	QPSK	25	0	Pass
			QPSK	1	0	Pass
			QPSK	1	24	Pass
		HCH	QPSK	25	0	Pass
			QPSK	1	0	Pass
			QPSK	1	24	Pass
	15	LCH	QPSK	79	0	Pass
			QPSK	1	0	Pass
			QPSK	1	78	Pass
		MCH	QPSK	79	0	Pass
			QPSK	1	0	Pass
			QPSK	1	78	Pass
		HCH	QPSK	79	0	Pass
			QPSK	1	0	Pass
			QPSK	1	78	Pass
	30	LCH	QPSK	160	0	Pass
			QPSK	1	0	Pass
			QPSK	1	159	Pass
		MCH	QPSK	160	0	Pass
			QPSK	1	0	Pass
			QPSK	1	159	Pass
		HCH	QPSK	160	0	Pass
			QPSK	1	0	Pass
			QPSK	1	159	Pass

A.6 Band Edge

Note 1: Test plots please refer to the document “Annex No.: Ti-CC26040191-501 Data Part 4.pdf”.

LTE Mode Test Verdict

Note 2: All data other than the following shall refer to Chapter A.6 BAND EDGE COMPLIANCE of report No. 25T04Z100699-001 & 25T04Z100699-002 & 25T04Z100699-003, which was issued by CTTL-Telecommunication Technology Labs, CAICT on Jun. 18, 2025 and report No.25T04Z100699-004, which was issued by CTTL-Telecommunication Technology Labs, CAICT on Jun. 19, 2025.

Test Band	Test Bandwidth	Test Channel	Test Mode	Test RB (Size#Offset)	Verdict ^{Note1}
Band 13	5 MHz	LCH	QPSK	RB1#0	Pass
				RB25#0	Pass
		LCH	16-QAM	RB1#0	Pass
				RB25#0	Pass
		HCH	QPSK	RB1#24	Pass
				RB25#0	Pass
	10 MHz	HCH	16-QAM	RB1#24	Pass
				RB25#0	Pass
		LCH	QPSK	RB1#0	Pass
				RB50#0	Pass
		LCH	16-QAM	RB1#0	Pass
				RB50#0	Pass
Band 14	5 MHz	HCH	QPSK	RB1#49	Pass
				RB50#0	Pass
		HCH	16-QAM	RB1#49	Pass
				RB50#0	Pass
	10 MHz	LCH	QPSK	RB1#0	Pass
				RB50#0	Pass
		LCH	16-QAM	RB1#0	Pass
				RB50#0	Pass
		HCH	QPSK	RB1#49	Pass
				RB50#0	Pass
		HCH	16-QAM	RB1#49	Pass
				RB50#0	Pass

NR Mode Test Verdict

Test Band	NR Test Bandwidth (MHz)	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	Verdict Note1
n7	5	LCH	QPSK	1	0	Pass
				25	0	Pass
		HCH	QPSK	1	24	Pass
				25	0	Pass
	10	LCH	QPSK	1	0	Pass
				52	0	Pass
		HCH	QPSK	1	51	Pass
				52	0	Pass

Test Band	NR Test Bandwidth (MHz)	Test Channel	Test Mode	NR UL RB No.	NR UL RB Pos.	Verdict Note1
n71	5	LCH	QPSK	1	0	Pass
				25	0	Pass
		HCH	QPSK	1	24	Pass
				25	0	Pass
	15	LCH	QPSK	1	0	Pass
				79	0	Pass
		HCH	QPSK	1	78	Pass
				79	0	Pass
	30	LCH	QPSK	1	0	Pass
				160	0	Pass
		HCH	QPSK	1	159	Pass
				160	0	Pass

A.7 Field Strength of Spurious Radiation

Note 1: All modes have been tested, and only the worst case data are shown here.

Note 2: The frequencies of verdict which are marked by "N/A" should be ignored because they are UE carrier frequency.

Note 3: Test plots please refer to the document "Annex No.: Ti-CC26040191-501 Data Part 5.pdf".

Note 4: The disturbance above 26.5GHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.

Note 5: All data other than the following shall refer to Chapter A.2 EMISSION LIMIT of report No. 25T04Z100699-001 & 25T04Z100699-002 & 25T04Z100699-003, which was issued by CTTL-Telecommunication Technology Labs, CAICT on Jun. 18, 2025 and report No.25T04Z100699-004, which was issued by CTTL-Telecommunication Technology Labs, CAICT on Jun. 19, 2025.

LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Verdict Note3
LTE B13	5 MHz	LCH	Pass
LTE B14	5 MHz	LCH	Pass

NR Mode Test Verdict

Test Band	Test Bandwidth (MHz)	Test Channel	Verdict Note3
n14	5 MHz	LCH	Pass
n71	5 MHz	HCH	Pass

ANNEX B TEST SETUP PHOTOS

Please refer to the document “Ti-CC26040191-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer to the document “Ti-CC26040191-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer to the document “Ti-CC26040191-AI.PDF”.

Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
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--END OF REPORT--