

TEST REPORT

Applicant:

Tri Cascade Inc.

Address:

19200 Von Karman Ave, Ste 400, Irvine, CA 92612

Equipment Type:

WiFi 7 5G Router

Model Name:

VOSIO 7G

Brand Name:

VOSIO

FCC ID:

2ACARVOSIOX7A

Test Standard:

47 CFR Part 2

(Others refer to chapter 3.1)

Sample Arrival Date:

Apr. 23, 2025

Test Date:

Apr. 25, 2025 - Jun. 22, 2025

Date of Issue:

Jul. 5, 2025

ISSUED BY:

Shanghai Tejet Communications Technology Co., Ltd. Testing Center

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Revision History

VersionIssue DateRevisions ContentRev. 01Jun. 24, 2025Initial IssueAdd the test data of Transmitter RadiatedRev. 02Jul. 5, 2025Power (EIRP/ERP).

The initial report is invalid.

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center		
Addross	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New		
Address	District, Shanghai, China		

1.2 Test Location

Name	Shanghai Tejet Communications Technology Co., Ltd. Testing Center		
Location	1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New		
	District, Shanghai, China		
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a		
	accredited testing laboratory.The designation number is CN1352		



2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Tri Cascade Inc.
Address	19200 Von Karman Ave, Ste 400, Irvine, CA 92612

2.2 Manufacturer Information

Manufacturer	Tri Cascade Inc.
Address	19200 Von Karman Ave, Ste 400, Irvine, CA 92612

2.3 Factory Information

Factory	N/A
Address	N/A

2.4 General Description for Equipment under Test (EUT)

EUT Name	WiFi 7 5G Router
Model Name Under	VOSIO 7G
Test	V03I0 70
Series Model Name	N/A
Description of Model	N/A
name differentiation	N/A
Sample No	SC-SZ2530890-S12
Hardware Version	FG18_MB_PCB_V1.3
Software Version	X7_PA _1.01.000008
Dimensions (Approx.)	L109mm*W109mm*H212mm
Weight (Approx.)	N/A



2.5 Technical Information

All Network and Wireless connectivity for EUT	4G Network FDD-LTE:B2/4/5/12/13/29/30/66/71 LTE CA Uplink (UL): CA_41C/CA_12A_66A/CA_13A_66A/CA_2A_12A/CA_2A_13A/CA_4A_13A 5G Network NR SA: n2/n5/n12/n14/n25/n30/n41/n48/n66/n70/n71/n77 ENDC: DC_5A_N2A/ DC_12A_N2A/ DC_13A_N2A/ DC_30A_N2A/DC_66A_N2A/ DC_2A_N5A/DC_12A_N5A/DC_13A_N5A/DC_30A_N5A/DC_48A_N5A/DC_66A_N 5A/DC_12A_N25A/DC_48A_N25A/DC_66A_N25A/DC_2A_N30A/DC_5A_N30A/ DC_12A_N30A/DC_66A_N30A/DC_2A_N41A/DC_66A_N41A/DC_2A_N66A/DC_5A _N66A/DC_12A_N66A/DC_13A_N66A/DC_30A_N66A/DC_48A_N66A/DC_2A_N71 A/DC_66A_N71A/DC_2A_N77A/DC_5A_N77A/DC_12A_N77A/DC_ 66A_N77A WiFi 7 Tri-band 2.4GHz + 5GHz +6GHz 802.11 a/b/g/n/ac/ax/be
About the	The equipment is WiFi 7 5G Router, intended for used with information technology
Product	equipment.

The requirement for the following technical information of the EUT was tested in this report:

	4G Network	
Operating Bands	TDD-LTE: B48	
Operating bands	5G Network	
	NR SA: n48	
	LTE	UL: QPSK/16QAM/64QAM
Modulation Type		DL: QPSK/16QAM/64QAM
Woddiation Type	NR	CP-OFDM: QPSK/16QAM/64QAM/256QAM
	INIX	DFT-s-OFDM:PI/2BPSK/QPSK/16QAM/64QAM/256QAM
Antenna Type	PCB	Antenna
	TDD LTE Band 48:	
	-0.74 dBi (ANT0)	
	-0.37 dBi(ANT1)	
	-0.07 dBi(ANT2)	
Antenna Gain	-0.27 dBi(ANT3)	
Antenna Gam	NR Band n48:	
	-0.74 dBi(ANT0)	
	-0.48 dBi(ANT1)	
	-0.07 dBi(ANT2)	
	-0.27	dBi(ANT3)
The Max RF	TDD Band 48:22.0 dBm	
Output Power	NR Band n48:20.24dBm	





(EIRP/ERP)			
SCS and			
Channel		N48_SCS 30kHz: 10 MHz, 20 MHz, 40 MHz,	
Bandwidths			
Band	Power	Tx Frequency Range	Rx Frequency Range
Danu	Class		
LTE B48	3	3550 MHz ~ 3700 MHz	3550 MHz ~ 3700 MHz
NR n48	3	3550 MHz~3700 MHz	3550 MHz~3770 MHz

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

Note2: All ENDC bands support Power Class 3 only.

Note3: These frequency ranges are only applicable in the United States.



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 96	CITIZENS BROADBAND RADIO SERVICE
3	ANSI C63.26-2015	American National Standard for Compliance Testing of
3		Transmitters Used in Licensed Radio Services
4	KDB 971168	Measurement Guidance for Certification of Licensed Digital
4	D01 v03	Transmitters

Add: 1-2/F., Building 1, No.222, Xuanlan Road, Xuanqiao, Pudong New District, Shanghai, China



3.2 Test Verdict

No.	Test Description	FCC Part No.	Test Result	Test Verdict	
1	Conducted RF Output Power	2.1046	Reporting only (ANNEX A.1)	Pass	
2	Effective (Isotropic) Radiated	2.1046	ANNEX A.1	Pass	
	Power	96.41(b)	ANNEX A. I		
3	Peak to Average Radio	2.1046	ANNEX A.2	Pass	
4	Occupied Bandwidth	2.1049	ANNEX A.3	Pass	
5	Frequency Stability	2.1055	ANNEX A.4	Pass	
6	Spurious Emission at	2.1051	ANNEX A.5	Pass	
0	Antenna Terminals	96.41(e)	ANNEX A.5	F d 5 5	
7	Band Edge	2.1051	ANNEX A.6	Pass	
	Band Edge	96.41(e)	ANNLX A.0		
8	Field Strength of Spurious	2.1053	ANNEX A.7	Pass	
0	Radiation	96.41(e)	AININEX A.7	rass	

Note :The RF module installed in the EUT is electronically and mechanically identical to the originally certified modules in the following test reports (all issued by SGS-CSTC Standards Technical Services (Suzhou) Co. Ltd. with original FCC ID:ZMOFM160NA):

Report No. FYCR220400010001 (issued May 20, 2022)

Therefore, this report only includes the results of out put power and LTE Band 48 spot check of the following item:

Field Strength of Spurious Radiation.

3.3 Decision Rule

☐ No Need

\checkmark	Use General conformity decision rule (Consider uncertainty or not \boxtimes No \square Yes)
	Use Special Conformity Decision Rule (Consider uncertainty or not \square No \square Yes)



4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity		5% to 95%
Test Voltage of the EUT	NV (Normal Voltage)	12 V
	LV (Low Voltage)	10.8V
	HV (High Voltage)	13.2V
	NT (Normal Temperature)	25 °C
Test Temperature of the EUT	LT (Low Temperature)	0 °C
	HT (High Temperature)	+40 °C

4.2Test Equipment List

Description	Manufacturer	Model	Equipment No.	Software /Firmware Version	Cal. Date	Cal. Due				
BL410 2G/3G/4G/	BL410 2G/3G/4G/5G RF Test System									
Wideband Radio Communication Tester	R&S	CMW 500	BH-EMC-L06 4	V3.7.60	2025/2/12	2026/2/12				
PSA Spectrum Analyzer	Agilent	E4440A	TJEMC013	A.11.07	2025/4/6	2026/4/6				
Signal Generator	Keysight	N5173B	BH-EMC-L07 4	B.01.90	2025/2/12	2026/2/12				
DC Power Supply	ITECH	IT6863A	BH-EMC-L11	N/A	2025/2/12	2026/2/12				
Filter unit	BALUN	SU319F	BH-EMC-L07 7	N/A	N/A	N/A				
Filter unit	BALUN	SU319F	BH-EMC-L07 8	N/A	N/A	N/A				
Filter unit	BALUN	SU319F	BH-EMC-L12 2	N/A	N/A	N/A				
Switch unit	BALUN	SU319	BH-EMC-L07	N/A	N/A	N/A				
Wireless										
Communication	Starpoint	SP9500-	BH-EMC-L09	NA	2025/2/12	2026/2/12				
Comprehensive	2161. P 211.11	CTS	3			202012112				
Tester										
Test Software	BALUN	BL410R	NA	V3.0.1.539	N/A	N/A				
Radiated Test Sys	stem									

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Test Antenna-	SCHWARZB	VULB	BH-EMC-L00		0004/0/44	0007/0/40	
Bi-Log	ECK	9163	8	NA	2024/3/11	2027/3/10	
Test Antenna-	Schwarzbeck	BBHA	BH-EMC-L04	NΙΔ	2024/3/11	2027/3/10	
Horn	Scriwarzbeck	9120D	4	NA	2024/3/11	2027/3/10	
Anechoic	YIHENG	9m*6m*	BH-EMC-L00	NA	2024/4/14	2027/4/13	
Chamber	TIFICING	6m	1	INA	2024/4/14	2027/4/13	
EMI Receiver	KEYSIGHT	N9038A	BH-EMC-L01	A.21.06	2024/7/9	2025/7/9	
Elvii Keceivei		N9030A	5	A.21.00	2024/1/9		
Wideband Radio		CMW	BH-EMC-L09		2025/2/12		
Communication	R&S	500	4	V3.7.172		2026/2/11	
Tester		300	4				
Radio		MT8000					
Communication	Anritsu	A	TJOTA080	N/A	2025/4/23	2026/4/23	
Analyzer							
Test Software	BALUN	BL410-E	NA	V21.919	N/A	N/A	

4.3 Test Configurations

LTE	I	Ban	dwi	dth (I	MHz)		М	odulation T	уре	RB#		Τe	est Cha	innel	
Band	1.4	3	5	10	15	20	QPSK	16-QAM	64-QAM	1	Half	Full	LCH	MCH	HCH
	Effective (Isotropic) Radiated Power														
48	n	n	٧	٧	V	٧	٧	٧	V	V	٧	٧	٧	V	V
Peak to Average Ratio															
48	n	n	-	٧			٧	٧		V		٧	V	V	V
	Occupied Bandwidth														
48	n	n	٧	٧	V	٧	٧	٧	V			V	V	V	V
								requency	Stability						
48	n	n	-	V			٧	V			-	V		V	
						Sp	urious E	mission at	Antenna T	ermina	ls				
48	n	n	٧	٧	V	٧	٧	V		V	-		V	V	V
								Band E	dge						
48	n	n	٧	٧	V	٧	٧	٧		V	-	V	V		V
							Field Stre	ength of Sp	urious Rad	diation					
48								Wo	rst case						
Note 1	: The	ma	rk "v	v" me	ans	that t	his confi	guration is	chosen for	testing					
L	·			**				* 101 *							

Note 2: The mark "n" means that this bandwidth is not supported.



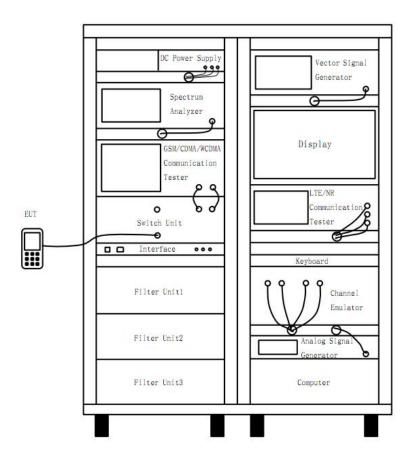
Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
		5	55265	3552.5
	Low Bongo	10	55290	3555
	Low Range	15	55315	3557.5
		20	55340	3560
LTE Band 48	Middle Range	5/10/15/20	55990	3625
		5	56715	3697.5
	Lligh Dongs	10	56690	3695
	High Range	15	56665	3692.5
		20	56640	3690

Test Mode	Channel Bandwidth (MHz)	UL Channel	UL Channel No.	UL Frequency (MHz)
NR Band n48		Low Range	637334	3560.01
	20	Middle Range	641666	3624.99
		High Range	646000	3690



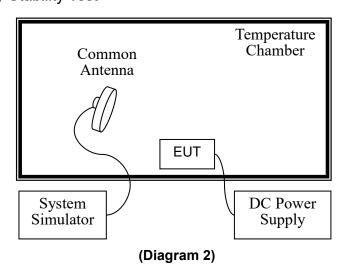
4.4 Test Setup

4.4.1 For Antenna Port Test



(Diagram 1)

4.4.2 For Frequency Stability Test

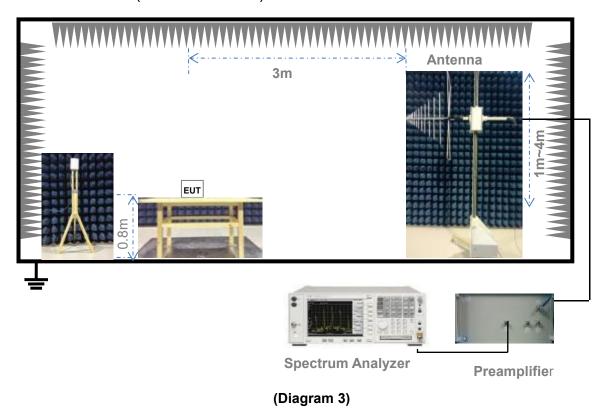


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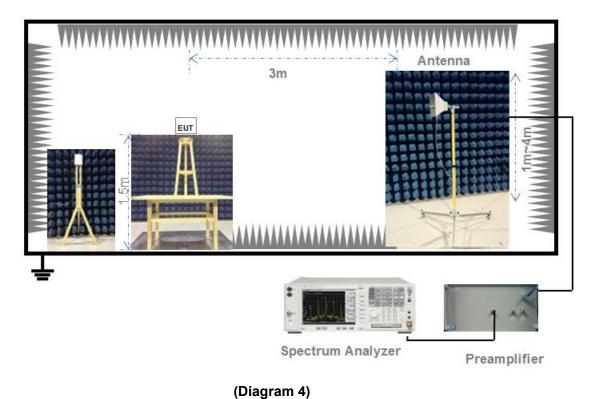
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4.4.3 For Radiated Test (30 MHz ~ 1 GHz)



4.4.4 For Radiated Test (Above 1 GHz)



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5 TEST ITEMS

5.1 Transmitter Radiated Power (EIRP/ERP)

5.1.1 Limit

FCC § 2.1046 & 96.41(b)

According to 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 500hm; 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:

Conducted Output Power Value (dBm) = Measured Value (dBm) + 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;

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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:

Conducted Output Power Value (dBm) = 24.7 dBm + 8.5 dB = 33.2 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 (dBi).

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:

ERP/EIRP = P_{Meas} + GT - 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 dBi (EIRP);

dBd (ERP)=dBi (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:

EIRP for GSM1900 = 30.2 dBm - 3.4 dBi - 0.6 dB = 26.2 dBm

The relevant equation for determining the ERP/EIRP from the radiated RF output power is: ERP/EIRP (dBm) = SA Read Value (dBm) + 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:

ERP (dBm) = 21dBm + 8dB = 29dBm

5.1.4 Test Result

Please refer to ANNEX A.1.

Ti Group

5.2 Peak to Average Ratio

5.2.1 Limit

FCC § 2.1046

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.

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 ≥ 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

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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

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.

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 & 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 § 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

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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 500hm; the path loss as the factor is calibrated to correct the reading.
- 2. CMW500 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 & 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 § 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 500hm; the path loss as the factor is calibrated to correct the reading.

2. CMW500 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%*cBW (RBW), and sweep point number referred to following formula.

Sweep point number = 2*Span/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*log(10 kHz / 6.25 kHz) = 2.04 dBLimit Line = -35 dBm + 2.04 dB = -32.96dBm

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 & 96.41(e)

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

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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:

ERP/EIRP (dBm) = SA Read Value (dBm) + Correction Factor (dB)

where:

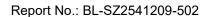
ERP/EIRP = effective or equivalent radiated power, in dBm;

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:

ERP (dBm) = 21dBm + 8dB = 29dBm

5.7.4 Test Result

Please refer to ANNEX A.7.

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ANNEX A TEST RESULTS

A.1 Transmitter Radiated Power (EIRP/ERP)

LTF Mode Test Data

LTE Mo	<u>de Test Dat</u>	<u>a</u>			_						
Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict		
	LTE BAND 48										
			RB1#0	20.89	-0.07	20.82	0.121	0.200	Pass		
			RB1#13	21.03	-0.07	20.96	0.125	0.200	Pass		
			RB1#24	21.11	-0.07	21.04	0.127	0.200	Pass		
		QPSK	RB12#0	19.96	-0.07	19.89	0.097	0.200	Pass		
			RB12#6	19.96	-0.07	19.89	0.097	0.200	Pass		
			RB12#13	20.06	-0.07	19.99	0.100	0.200	Pass		
			RB25#0	19.99	-0.07	19.92	0.098	0.200	Pass		
			RB1#0	20.12	-0.07	20.05	0.101	0.200	Pass		
			RB1#13	20.23	-0.07	20.16	0.104	0.200	Pass		
	LCH		RB1#24	20.34	-0.07	20.27	0.106	0.200	Pass		
		16-QAM	RB12#0	18.96	-0.07	18.89	0.077	0.200	Pass		
			RB12#6	18.95	-0.07	18.88	0.077	0.200	Pass		
			RB12#13	19.05	-0.07	18.98	0.079	0.200	Pass		
			RB25#0	18.98	-0.07	18.91	0.078	0.200	Pass		
		64-QAM	RB1#0	18.9	-0.07	18.83	0.076	0.200	Pass		
5 MHz			RB1#12	19.05	-0.07	18.98	0.079	0.200	Pass		
SIVITZ			RB1#24	19.08	-0.07	19.01	0.080	0.200	Pass		
			RB12#0	17.91	-0.07	17.84	0.061	0.200	Pass		
			RB12#6	17.92	-0.07	17.85	0.061	0.200	Pass		
			RB12#13	18	-0.07	17.93	0.062	0.200	Pass		
			RB25#0	17.98	-0.07	17.91	0.062	0.200	Pass		
			RB1#0	21.76	-0.07	21.69	0.148	0.200	Pass		
			RB1#12	21.8	-0.07	21.73	0.149	0.200	Pass		
			RB1#24	21.84	-0.07	21.77	0.150	0.200	Pass		
		QPSK	RB12#0	20.73	-0.07	20.66	0.116	0.200	Pass		
			RB12#6	20.73	-0.07	20.66	0.116	0.200	Pass		
	MCH		RB12#13	20.75	-0.07	20.68	0.117	0.200	Pass		
	IVIOIT		RB25#0	20.76	-0.07	20.69	0.117	0.200	Pass		
			RB1#0	20.99	-0.07	20.92	0.124	0.200	Pass		
		16-QAM	RB1#12	21	-0.07	20.93	0.124	0.200	Pass		
			RB1#24	21.04	-0.07	20.97	0.125	0.200	Pass		
			RB12#0	19.73	-0.07	19.66	0.092	0.200	Pass		
			RB12#6	19.73	-0.07	19.66	0.092	0.200	Pass		



				Conducted					
Test	Test	Test	Test RB	Output AV	Antenna	EIRP	EIRP	Limit	
BW	Channel	Mode	(Size#Offset)	Power	Gain	(dBm)	(W)	(W)	Verdict
	O'lidiiiioi	mode	(0.20, 0.1001)	(dBm)	(dBi)	(42)	(,	(**)	
LTE BAND 48									
			RB12#13	19.77	-0.07	19.70	0.093	0.200	Pass
			RB25#0	19.75	-0.07	19.68	0.093	0.200	Pass
			RB1#0	20.23	-0.07	20.16	0.104	0.200	Pass
			RB1#12	20.28	-0.07	20.21	0.105	0.200	Pass
			RB1#24	20.29	-0.07	20.22	0.105	0.200	Pass
		64-QAM	RB12#0	18.82	-0.07	18.75	0.075	0.200	Pass
			RB12#6	18.85	-0.07	18.78	0.076	0.200	Pass
			RB12#13	18.86	-0.07	18.79	0.076	0.200	Pass
			RB25#0	18.71	-0.07	18.64	0.073	0.200	Pass
			RB1#0	22	-0.07	21.93	0.156	0.200	Pass
			RB1#12	21.98	-0.07	21.91	0.155	0.200	Pass
			RB1#24	21.95	-0.07	21.88	0.154	0.200	Pass
		QPSK	RB12#0	21	-0.07	20.93	0.124	0.200	Pass
			RB12#6	20.97	-0.07	20.90	0.123	0.200	Pass
			RB12#13	20.98	-0.07	20.91	0.123	0.200	Pass
			RB25#0	21.02	-0.07	20.95	0.124	0.200	Pass
			RB1#0	21.34	-0.07	21.27	0.134	0.200	Pass
			RB1#12	21.35	-0.07	21.28	0.134	0.200	Pass
		16-QAM	RB1#24	21.3	-0.07	21.23	0.133	0.200	Pass
	HCH		RB12#0	20.09	-0.07	20.02	0.100	0.200	Pass
			RB12#6	20.08	-0.07	20.01	0.100	0.200	Pass
			RB12#13	20.1	-0.07	20.03	0.101	0.200	Pass
			RB25#0	20.01	-0.07	19.94	0.099	0.200	Pass
			RB1#0	20.24	-0.07	20.17	0.104	0.200	Pass
			RB1#12	20.32	-0.07	20.25	0.106	0.200	Pass
			RB1#24	20.22	-0.07	20.15	0.104	0.200	Pass
		64-QAM	RB12#0	18.93	-0.07	18.86	0.077	0.200	Pass
			RB12#6	18.94	-0.07	18.87	0.077	0.200	Pass
			RB12#13	18.91	-0.07	18.84	0.077	0.200	Pass
			RB25#0	18.93	-0.07	18.86	0.077	0.200	Pass
			RB1#0	20.48	-0.07	20.41	0.110	0.200	Pass
			RB1#24	21.01	-0.07	20.94	0.124	0.200	Pass
			RB1#49	21.27	-0.07	21.20	0.132	0.200	Pass
10 MHz	LCH	H QPSK	RB25#0	19.93	-0.07	19.86	0.097	0.200	Pass
			RB25#12	20.04	-0.07	19.97	0.099	0.200	Pass
			RB25#25	20.16	-0.07	20.09	0.102	0.200	Pass
			RB50#0	20.08	-0.07	20.01	0.100	0.200	Pass
		16-QAM	RB1#0	20.13	-0.07	20.06	0.101	0.200	Pass



				Conducted	Antenna					
Test	Test	Test	Test RB	Output AV	Gain	EIRP	EIRP	Limit	Verdict	
BW	Channel	Mode	(Size#Offset)	Power	(dBi)	(dBm)	(W)	(W)	Verdict	
				(dBm)	(dDI)					
LTE BAND 48										
			RB1#24	20.29	-0.07	20.22	0.105	0.200	Pass	
			RB1#49	20.56	-0.07	20.49	0.112	0.200	Pass	
			RB25#0	18.93	-0.07	18.86	0.077	0.200	Pass	
			RB25#12	19.05	-0.07	18.98	0.079	0.200	Pass	
			RB25#25	19.15	-0.07	19.08	0.081	0.200	Pass	
			RB50#0	19.04	-0.07	18.97	0.079	0.200	Pass	
			RB1#0	18.69	-0.07	18.62	0.073	0.200	Pass	
			RB1#24	18.9	-0.07	18.83	0.076	0.200	Pass	
			RB1#49	19.13	-0.07	19.06	0.081	0.200	Pass	
		64-QAM	RB25#0	17.94	-0.07	17.87	0.061	0.200	Pass	
			RB25#12	18.03	-0.07	17.96	0.063	0.200	Pass	
			RB25#25	18.16	-0.07	18.09	0.064	0.200	Pass	
			RB50#0	18.03	-0.07	17.96	0.063	0.200	Pass	
			RB1#0	21.79	-0.07	21.72	0.149	0.200	Pass	
			RB1#24	21.83	-0.07	21.76	0.150	0.200	Pass	
			RB1#49	21.91	-0.07	21.84	0.153	0.200	Pass	
		QPSK	RB25#0	20.72	-0.07	20.65	0.116	0.200	Pass	
			RB25#12	20.73	-0.07	20.66	0.116	0.200	Pass	
			RB25#25	20.79	-0.07	20.72	0.118	0.200	Pass	
			RB50#0	20.73	-0.07	20.66	0.116	0.200	Pass	
			RB1#0	21.1	-0.07	21.03	0.127	0.200	Pass	
			RB1#24	21.13	-0.07	21.06	0.128	0.200	Pass	
			RB1#49	21.23	-0.07	21.16	0.131	0.200	Pass	
	MCH	16-QAM	RB25#0	19.69	-0.07	19.62	0.092	0.200	Pass	
			RB25#12	19.7	-0.07	19.63	0.092	0.200	Pass	
			RB25#25	19.75	-0.07	19.68	0.093	0.200	Pass	
			RB50#0	19.74	-0.07	19.67	0.093	0.200	Pass	
			RB1#0	20.19	-0.07	20.12	0.103	0.200	Pass	
			RB1#24	20.26	-0.07	20.19	0.104	0.200	Pass	
			RB1#49	20.31	-0.07	20.24	0.106	0.200	Pass	
		64-QAM	RB25#0	18.66	-0.07	18.59	0.072	0.200	Pass	
			RB25#12	18.67	-0.07	18.60	0.072	0.200	Pass	
			RB25#25	18.72	-0.07	18.65	0.073	0.200	Pass	
			RB50#0	18.68	-0.07	18.61	0.073	0.200	Pass	
			RB1#0	22.01	-0.07	21.94	0.156	0.200	Pass	
	НСП	ODGIZ	RB1#24	21.95	-0.07	21.88	0.154	0.200	Pass	
	HCH	HCH	QPSK	RB1#49	21.96	-0.07	21.89	0.155	0.200	Pass
			RB25#0	20.98	-0.07	20.91	0.123	0.200	Pass	



				Conducted					
Test	Test	Test	Test RB	Conducted Output AV	Antenna	EIRP	EIRP	Limit	
BW	Channel	Mode	(Size#Offset)	Power	Gain	(dBm)	(W)	(W)	Verdict
DVV	Charmer	IVIOGE	(Size#Offset)	(dBm)	(dBi)	(ubiii)	((V)	(۷۷)	
			1.	TE BAND 48					
			RB25#12	20.98	-0.07	20.91	0.123	0.200	Pass
			RB25#25	20.94	-0.07	20.87	0.122	0.200	Pass
			RB50#0	20.96	-0.07	20.89	0.123	0.200	Pass
			RB1#0	21.32	-0.07	21.25	0.133	0.200	Pass
			RB1#24	21.25	-0.07	21.18	0.131	0.200	Pass
			RB1#49	21.28	-0.07	21.21	0.132	0.200	Pass
		16-QAM	RB25#0	19.99	-0.07	19.92	0.098	0.200	Pass
		10 00 1111	RB25#12	19.98	-0.07	19.91	0.098	0.200	Pass
			RB25#25	19.96	-0.07	19.89	0.097	0.200	Pass
			RB50#0	19.99	-0.07	19.92	0.098	0.200	Pass
			RB1#0	20.16	-0.07	20.09	0.102	0.200	Pass
			RB1#24	20.13	-0.07	20.06	0.101	0.200	Pass
			RB1#49	20.14	-0.07	20.07	0.102	0.200	Pass
		64-QAM	RB25#0	18.88	-0.07	18.81	0.076	0.200	Pass
			RB25#12	18.85	-0.07	18.78	0.076	0.200	Pass
			RB25#25	18.84	-0.07	18.77	0.075	0.200	Pass
			RB50#0	18.94	-0.07	18.87	0.077	0.200	Pass
			RB1#0	20.43	-0.07	20.36	0.109	0.200	Pass
		QPSK	RB1#37	21.12	-0.07	21.05	0.127	0.200	Pass
			RB1#74	21.39	-0.07	21.32	0.136	0.200	Pass
			RB36#0	19.98	-0.07	19.91	0.098	0.200	Pass
			RB36#19	20.11	-0.07	20.04	0.101	0.200	Pass
			RB36#39	20.29	-0.07	20.22	0.105	0.200	Pass
			RB75#0	20.16	-0.07	20.09	0.102	0.200	Pass
			RB1#0	20.15	-0.07	20.08	0.102	0.200	Pass
			RB1#37	20.41	-0.07	20.34	0.108	0.200	Pass
15 MH I-			RB1#74	20.66	-0.07	20.59	0.115	0.200	Pass
15 MHz	LCH	16-QAM	RB36#0	18.99	-0.07	18.92	0.078	0.200	Pass
			RB36#19	19.13	-0.07	19.06	0.081	0.200	Pass
			RB36#39	19.33	-0.07	19.26	0.084	0.200	Pass
			RB75#0	19.19	-0.07	19.12	0.082	0.200	Pass
			RB1#0	18.74	-0.07	18.67	0.074	0.200	Pass
			RB1#37	19.02	-0.07	18.95	0.079	0.200	Pass
			RB1#74	19.26	-0.07	19.19	0.083	0.200	Pass
		64-QAM	RB36#0	18.05	-0.07	17.98	0.063	0.200	Pass
		·	RB36#19	18.17	-0.07	18.10	0.065	0.200	Pass
			RB36#39	18.36	-0.07	18.29	0.067	0.200	Pass
			RB75#0	18.15	-0.07	18.08	0.064	0.200	Pass



				Conducted					
Test	Test	Test	Test RB	Output AV	Antenna	EIRP	EIRP	Limit	
BW	Channel	Mode	(Size#Offset)	Power	Gain	(dBm)	(W)	(W)	Verdict
				(dBm)	(dBi)				
		'	L	TE BAND 48	ı	1			ı
			RB1#0	21.76	-0.07	21.69	0.148	0.200	Pass
			RB1#37	21.9	-0.07	21.83	0.152	0.200	Pass
			RB1#74	21.93	-0.07	21.86	0.153	0.200	Pass
		QPSK	RB36#0	20.66	-0.07	20.59	0.115	0.200	Pass
			RB36#19	20.7	-0.07	20.63	0.116	0.200	Pass
			RB36#39	20.79	-0.07	20.72	0.118	0.200	Pass
			RB75#0	20.73	-0.07	20.66	0.116	0.200	Pass
			RB1#0	21.08	-0.07	21.01	0.126	0.200	Pass
			RB1#37	21.19	-0.07	21.12	0.129	0.200	Pass
			RB1#74	21.28	-0.07	21.21	0.132	0.200	Pass
	MCH	16-QAM	RB36#0	19.67	-0.07	19.60	0.091	0.200	Pass
			RB36#19	19.71	-0.07	19.64	0.092	0.200	Pass
			RB36#39	19.79	-0.07	19.72	0.094	0.200	Pass
			RB75#0	19.77	-0.07	19.70	0.093	0.200	Pass
			RB1#0	20.14	-0.07	20.07	0.102	0.200	Pass
			RB1#37	20.28	-0.07	20.21	0.105	0.200	Pass
			RB1#74	20.35	-0.07	20.28	0.107	0.200	Pass
		64-QAM	RB36#0	18.73	-0.07	18.66	0.073	0.200	Pass
			RB36#19	18.77	-0.07	18.70	0.074	0.200	Pass
			RB36#39	18.84	-0.07	18.77	0.075	0.200	Pass
			RB75#0	18.78	-0.07	18.71	0.074	0.200	Pass
			RB1#0	22.04	-0.07	21.97	0.157	2.000	Pass
			RB1#37	22.06	-0.07	21.99	0.158	2.000	Pass
			RB1#74	21.99	-0.07	21.92	0.156	2.000	Pass
		QPSK	RB36#0	20.98	-0.07	20.91	0.123	2.000	Pass
			RB36#19	20.98	-0.07	20.91	0.123	2.000	Pass
			RB36#39	20.96	-0.07	20.89	0.123	2.000	Pass
			RB75#0	20.99	-0.07	20.92	0.124	2.000	Pass
			RB1#0	21.29	-0.07	21.22	0.132	2.000	Pass
	HCH		RB1#37	21.3	-0.07	21.23	0.133	2.000	Pass
			RB1#74	21.26	-0.07	21.19	0.132	2.000	Pass
		16-QAM	RB36#0	20.03	-0.07	19.96	0.099	2.000	Pass
			RB36#19	20	-0.07	19.93	0.098	2.000	Pass
			RB36#39	20	-0.07	19.93	0.098	2.000	Pass
			RB75#0	20.01	-0.07	19.94	0.099	2.000	Pass
			RB1#0	20.08	-0.07	20.01	0.100	2.000	Pass
		64-QAM	RB1#37	20.11	-0.07	20.04	0.101	2.000	Pass
			RB1#74	20.04	-0.07	19.97	0.099	2.000	Pass



				Conducted					
Test	Test	Test	Test RB	Output AV	Antenna	EIRP	EIRP	Limit	
BW	Channel	Mode	(Size#Offset)	Power	Gain	(dBm)	(W)	(W)	Verdict
			,	(dBm)	(dBi)	,			
			L.	TE BAND 48					
			RB36#0	18.95	-0.07	18.88	0.077	2.000	Pass
			RB36#19	18.96	-0.07	18.89	0.077	2.000	Pass
			RB36#39	18.92	-0.07	18.85	0.077	2.000	Pass
			RB75#0	18.98	-0.07	18.91	0.078	2.000	Pass
			RB1#0	20.41	-0.07	20.34	0.108	2.000	Pass
			RB1#49	21.31	-0.07	21.24	0.133	2.000	Pass
			RB1#99	21.57	-0.07	21.50	0.141	2.000	Pass
		QPSK	RB50#0	20.1	-0.07	20.03	0.101	2.000	Pass
			RB50#25	20.27	-0.07	20.20	0.105	2.000	Pass
			RB50#50	20.43	-0.07	20.36	0.109	2.000	Pass
			RB100#0	20.31	-0.07	20.24	0.106	2.000	Pass
			RB1#0	20.18	-0.07	20.11	0.103	2.000	Pass
		16-QAM	RB1#49	20.58	-0.07	20.51	0.112	2.000	Pass
			RB1#99	20.81	-0.07	20.74	0.119	2.000	Pass
	LCH		RB50#0	19.06	-0.07	18.99	0.079	2.000	Pass
			RB50#25	19.25	-0.07	19.18	0.083	2.000	Pass
			RB50#50	19.42	-0.07	19.35	0.086	2.000	Pass
			RB100#0	19.26	-0.07	19.19	0.083	2.000	Pass
		64-QAM	RB1#0	19.42	-0.07	19.35	0.086	2.000	Pass
			RB1#49	19.79	-0.07	19.72	0.094	2.000	Pass
20 MHz			RB1#99	20.05	-0.07	19.98	0.100	2.000	Pass
			RB50#0	18.09	-0.07	18.02	0.063	2.000	Pass
			RB50#25	18.29	-0.07	18.22	0.066	2.000	Pass
			RB50#50	18.44	-0.07	18.37	0.069	2.000	Pass
			RB100#0	18.27	-0.07	18.20	0.066	2.000	Pass
			RB1#0	21.75	-0.07	21.68	0.147	2.000	Pass
			RB1#49	21.89	-0.07	21.82	0.152	2.000	Pass
			RB1#99	22.01	-0.07	21.94	0.156	2.000	Pass
		QPSK	RB50#0	20.72	-0.07	20.65	0.116	2.000	Pass
			RB50#25	20.77	-0.07	20.70	0.117	2.000	Pass
			RB50#50	20.84	-0.07	20.77	0.119	2.000	Pass
	MCH		RB100#0	20.76	-0.07	20.69	0.117	2.000	Pass
			RB1#0	20.75	-0.07	20.68	0.117	2.000	Pass
			RB1#49	20.92	-0.07	20.85	0.122	2.000	Pass
		40.011	RB1#99	21.02	-0.07	20.95	0.124	2.000	Pass
		16-QAM	RB50#0	19.7	-0.07	19.63	0.092	2.000	Pass
			RB50#25	19.76	-0.07	19.69	0.093	2.000	Pass
			RB50#50	19.82	-0.07	19.75	0.094	2.000	Pass



Test BW	Test Channel	Test Mode	Test RB (Size#Offset)	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)	Verdict
	1		L	TE BAND 48			ı	ı	
			RB100#0	19.76	-0.07	19.69	0.093	2.000	Pass
			RB1#0	19.71	-0.07	19.64	0.092	2.000	Pass
			RB1#49	19.89	-0.07	19.82	0.096	2.000	Pass
			RB1#99	19.98	-0.07	19.91	0.098	2.000	Pass
		64-QAM	RB50#0	18.72	-0.07	18.65	0.073	2.000	Pass
			RB50#25	18.78	-0.07	18.71	0.074	2.000	Pass
			RB50#50	18.83	-0.07	18.76	0.075	2.000	Pass
			RB100#0	18.75	-0.07	18.68	0.074	2.000	Pass
			RB1#0	21.99	-0.07	21.92	0.156	2.000	Pass
		QPSK	RB1#49	22.07	-0.07	22.00	0.158	2.000	Pass
			RB1#99	22.03	-0.07	21.96	0.157	2.000	Pass
			RB50#0	21	-0.07	20.93	0.124	2.000	Pass
			RB50#25	21.01	-0.07	20.94	0.124	2.000	Pass
			RB50#50	21	-0.07	20.93	0.124	2.000	Pass
			RB100#0	20.97	-0.07	20.90	0.123	2.000	Pass
			RB1#0	21.38	-0.07	21.31	0.135	2.000	Pass
			RB1#49	21.47	-0.07	21.40	0.138	2.000	Pass
			RB1#99	21.43	-0.07	21.36	0.137	2.000	Pass
	HCH	16-QAM	RB50#0	20.03	-0.07	19.96	0.099	2.000	Pass
			RB50#25	20.03	-0.07	19.96	0.099	2.000	Pass
			RB50#50	20.03	-0.07	19.96	0.099	2.000	Pass
			RB100#0	19.98	-0.07	19.91	0.098	2.000	Pass
			RB1#0	20.26	-0.07	20.19	0.104	2.000	Pass
		64-QAM	RB1#49	20.37	-0.07	20.30	0.107	2.000	Pass
			RB1#99	20.3	-0.07	20.23	0.105	2.000	Pass
			RB50#0	19.02	-0.07	18.95	0.079	2.000	Pass
			RB50#25	19.04	-0.07	18.97	0.079	2.000	Pass
			RB50#50	19.04	-0.07	18.97	0.079	2.000	Pass
			RB100#0	19.03	-0.07	18.96	0.079	2.000	Pass



NR Mode Test Data

Test	Test Chann	Test	UL RB Numbe	UL RB Positio	Conducted Output AV	Anten na	EIRP (dBm	ERP	Limit	Verdi
BW	el	Mode	r	n	Power(dBm)	Gain (dBi))	(W)	(W)	ct
	I			<u> </u>	NR Band n48	, ,				
		DI/O	12	6	19.78	-0.07	19.71	0.094	0.200	Pass
		PI/2	1	1	19.93	-0.07	19.86	0.097	0.200	Pass
		BPSK	1	22	19.95	-0.07	19.88	0.097	0.200	Pass
			12	6	19.73	-0.07	19.66	0.092	0.200	Pass
		QPSK	1	1	20.01	-0.07	19.94	0.099	0.200	Pass
			1	22	19.97	-0.07	19.90	0.098	0.200	Pass
			12	6	18.95	-0.07	18.88	0.077	0.200	Pass
	LCH	16QAM	1	1	19.05	-0.07	18.98	0.079	0.200	Pass
			1	22	19.08	-0.07	19.01	0.080	0.200	Pass
			12	6	17.29	-0.07	17.22	0.053	0.200	Pass
		64QAM	1	1	17.13	-0.07	17.06	0.051	0.200	Pass
			1	22	16.46	-0.07	16.39	0.044	0.200	Pass
		256QA M	12	6	17.25	-0.07	17.18	0.052	0.200	Pass
			1	1	17.13	-0.07	17.06	0.051	0.200	Pass
			1	22	17.09	-0.07	17.02	0.050	0.200	Pass
		PI/2 BPSK	12	6	20.09	-0.07	20.02	0.100	0.200	Pass
			1	1	20.09	-0.07	20.02	0.100	0.200	Pass
			1	22	20.24	-0.07	20.17	0.104	0.200	Pass
10		QPSK	12	6	20.05	-0.07	19.98	0.100	0.200	Pass
			1	1	20.16	-0.07	20.09	0.102	0.200	Pass
			1	22	20.26	-0.07	20.19	0.104	0.200	Pass
			12	6	19.17	-0.07	19.10	0.081	0.200	Pass
	MCH	16QAM	1	1	19.1	-0.07	19.03	0.080	0.200	Pass
			1	22	19.23	-0.07	19.16	0.082	0.200	Pass
			12	6	17.54	-0.07	17.47	0.056	0.200	Pass
		64QAM	1	1	17.36	-0.07	17.29	0.054	0.200	Pass
			1	22	16.75	-0.07	16.68	0.047	0.200	Pass
		256QA	12	6	17.49	-0.07	17.42	0.055	0.200	Pass
		230QA M	1	1	17.36	-0.07	17.29	0.054	0.200	Pass
		IVI	1	22	17.34	-0.07	17.27	0.053	0.200	Pass
		PI/2	12	6	19.82	-0.07	19.75	0.094	0.200	Pass
			1	1	19.72	-0.07	19.65	0.092	0.200	Pass
		BPSK	1	22	19.79	-0.07	19.72	0.094	0.200	Pass
	HCH		12	6	19.78	-0.07	19.71	0.094	0.200	Pass
		QPSK	1	1	19.95	-0.07	19.88	0.097	0.200	Pass
			1	22	19.97	-0.07	19.90	0.098	0.200	Pass
		16QAM	12	6	18.62	-0.07	18.55	0.072	0.200	Pass



			1	1	18.79	-0.07	18.72	0.074	0.200	Pass
			1	22	18.79	+				Pass
			12		18.9	-0.07	18.83	0.076	0.200	
		640014		6	17.19	-0.07	17.12 17.26	0.052	0.200	Pass Pass
		64QAM	1			-0.07				
			1	22	17.41	-0.07	17.34	0.054	0.200	Pass
		256QA	12	6	17.17	-0.07	17.10	0.051	0.200	Pass
		M	1	1	16.96	-0.07	16.89	0.049	0.200	Pass
			1	22	17	-0.07	16.93	0.049	0.200	Pass
		PI/2	25	12	20.03	-0.07	19.96	0.099	0.200	Pass
		BPSK	1	1	19.91	-0.07	19.84	0.096	0.200	Pass
			1	49	19.84	-0.07	19.77	0.095	0.200	Pass
			25	12	19.96	-0.07	19.89	0.097	0.200	Pass
		QPSK	1	1	19.87	-0.07	19.80	0.095	0.200	Pass
			1	49	19.82	-0.07	19.75	0.094	0.200	Pass
			25	12	19.19	-0.07	19.12	0.082	0.200	Pass
	LCH	16QAM	1	1	19.02	-0.07	18.95	0.079	0.200	Pass
			1	49	18.99	-0.07	18.92	0.078	0.200	Pass
		64QAM	25	12	17.5	-0.07	17.43	0.055	0.200	Pass
			1	1	17.41	-0.07	17.34	0.054	0.200	Pass
			1	49	17.47	-0.07	17.40	0.055	0.200	Pass
		256QA	25	12	17.57	-0.07	17.50	0.056	0.200	Pass
		M -	1	1	17.15	-0.07	17.08	0.051	0.200	Pass
			1	49	17.01	-0.07	16.94	0.049	0.200	Pass
		PI/2 BPSK	25	12	20.21	-0.07	20.14	0.103	0.200	Pass
			1	1	19.93	-0.07	19.86	0.097	0.200	Pass
20			1	49	20.13	-0.07	20.06	0.101	0.200	Pass
			25	12	20.09	-0.07	20.02	0.100	0.200	Pass
		QPSK	1	1	19.96	-0.07	19.89	0.097	0.200	Pass
			1	49	20.09	-0.07	20.02	0.100	0.200	Pass
			25	12	18.63	-0.07	18.56	0.072	0.200	Pass
	MCH	16QAM	1	1	18.96	-0.07	18.89	0.077	0.200	Pass
			1	49	19.21	-0.07	19.14	0.082	0.200	Pass
			25	12	17.65	-0.07	17.58	0.057	0.200	Pass
		64QAM	1	1	17.06	-0.07	16.99	0.050	0.200	Pass
			1	49	17.29	-0.07	17.22	0.053	0.200	Pass
			25	12	17.68	-0.07	17.61	0.058	0.200	Pass
	256QA M	256QA	1	1	16.99	-0.07	16.92	0.049	0.200	Pass
		M	1	49	17.19	-0.07	17.12	0.052	0.200	Pass
			25	12	19.92	-0.07	19.85	0.097	0.200	Pass
		PI/2	1	1	19.87	-0.07	19.80	0.095	0.200	Pass
	нсн	BPSK	 1	49	19.76	-0.07	19.69	0.093	0.200	Pass
			25	12	19.93	-0.07	19.86	0.097	0.200	Pass
		QPSK	1	1	19.96	-0.07	19.89	0.097	0.200	Pass
			- 1	'	10.00	0.07	10.00	0.001	0.200	1 433



			1	49	19.89	-0.07	19.82	0.096	0.200	Pass
			25	12	18.77	-0.07	18.70	0.074	0.200	Pass
		16QAM	1	1	18.86	-0.07	18.79	0.076	0.200	Pass
			1	49	18.76	-0.07	18.69	0.074	0.200	Pass
			25	12	17.38	-0.07	17.31	0.054	0.200	Pass
		64QAM	1	1	17.21	-0.07	17.14	0.052	0.200	Pass
			1	49	16.73	-0.07	16.66	0.046	0.200	Pass
		_	25	12	17.36	-0.07	17.29	0.054	0.200	Pass
		256QA	1	1	16.99	-0.07	16.92	0.049	0.200	Pass
		M	1	49	16.83	-0.07	16.76	0.047	0.200	Pass
		D1/0	50	25	19.99	-0.07	19.92	0.098	0.200	Pass
		PI/2	1	1	20.14	-0.07	20.07	0.102	0.200	Pass
		BPSK	1	104	19.98	-0.07	19.91	0.098	0.200	Pass
			50	25	20	-0.07	19.93	0.098	0.200	Pass
		QPSK	1	1	20.15	-0.07	20.08	0.102	0.200	Pass
			1	104	20.01	-0.07	19.94	0.099	0.200	Pass
		16QAM	50	25	18.97	-0.07	18.90	0.078	0.200	Pass
	LCH		1	1	19.14	-0.07	19.07	0.081	0.200	Pass
			1	104	19.24	-0.07	19.17	0.083	0.200	Pass
		64QAM	50	25	17.49	-0.07	17.42	0.055	0.200	Pass
			1	1	17.04	-0.07	16.97	0.050	0.200	Pass
			1	104	16.96	-0.07	16.89	0.049	0.200	Pass
		256QA M	50	25	17.49	-0.07	17.42	0.055	0.200	Pass
			1	1	17.27	-0.07	17.20	0.052	0.200	Pass
			1	104	17.04	-0.07	16.97	0.050	0.200	Pass
		PI/2 BPSK	50	25	20.18	-0.07	20.11	0.103	0.200	Pass
40			1	1	20.14	-0.07	20.07	0.102	0.200	Pass
			1	104	20.31	-0.07	20.24	0.106	0.200	Pass
			50	25	20.14	-0.07	20.07	0.102	0.200	Pass
		QPSK	1	1	19.96	-0.07	19.89	0.097	0.200	Pass
			1	104	20.31	-0.07	20.24	0.106	0.200	Pass
			50	25	19.03	-0.07	18.96	0.079	0.200	Pass
	MCH	16QAM	1	1	19.1	-0.07	19.03	0.080	0.200	Pass
			1	104	13.96	-0.07	13.89	0.024	0.200	Pass
			50	25	17.59	-0.07	17.52	0.056	0.200	Pass
		64QAM	1	1	17.29	-0.07	17.22	0.053	0.200	Pass
			1	104	17.39	-0.07	17.32	0.054	0.200	Pass
		25604	50	25	17.64	-0.07	17.57	0.057	0.200	Pass
		256QA M	1	1	17.19	-0.07	17.12	0.052	0.200	Pass
		IVI	1	104	17.36	-0.07	17.29	0.054	0.200	Pass
		PI/2	50	25	19.98	-0.07	19.91	0.098	0.200	Pass
	HCH	BPSK	1	1	19.84	-0.07	19.77	0.095	0.200	Pass
		Di Oit	1	104	19.97	-0.07	19.90	0.098	0.200	Pass



		50	25	19.96	-0.07	19.89	0.097	0.200	Pass
	QPSK	1	1	19.93	-0.07	19.86	0.097	0.200	Pass
		1	104	20	-0.07	19.93	0.098	0.200	Pass
		50	25	18.88	-0.07	18.81	0.076	0.200	Pass
	16QAM	1	1	18.9	-0.07	18.83	0.076	0.200	Pass
		1	104	19.15	-0.07	19.08	0.081	0.200	Pass
		50	25	17.4	-0.07	17.33	0.054	0.200	Pass
	64QAM	1	1	18.32	-0.07	18.25	0.067	0.200	Pass
		1	104	17.04	-0.07	16.97	0.050	0.200	Pass
	256QA M	50	25	17.42	-0.07	17.35	0.054	0.200	Pass
		1	1	16.89	-0.07	16.82	0.048	0.200	Pass
		1	104	16.94	-0.07	16.87	0.049	0.200	Pass

A.2 Peak to Average Ratio

Note:The test results of this item please refer to the report in the following test reports (all issued by SGS-CSTC Standards Technical Services (Suzhou) Co. Ltd with original FCC ID:ZMOFM160NA): Report No. FYCR220400010001 (issued May 20, 2022)

A.3 Occupied Bandwidth

Note:The test results of this item please refer to the report in the following test reports (all issued by SGS-CSTC Standards Technical Services (Suzhou) Co. Ltd with original FCC ID:ZMOFM160NA): Report No. FYCR220400010001 (issued May 20, 2022)

A.4 Frequency Stability

Note:The test results of this item please refer to the report in the following test reports (all issued by SGS-CSTC Standards Technical Services (Suzhou) Co. Ltd with original FCC ID:ZMOFM160NA): Report No. FYCR220400010001 (issued May 20, 2022)

A.5 Spurious Emission at Antenna Terminals

Note:The test results of this item please refer to the report in the following test reports (all issued by SGS-CSTC Standards Technical Services (Suzhou) Co. Ltd with original FCC ID:ZMOFM160NA): Report No. FYCR220400010001 (issued May 20, 2022)



A.6 Band Edge

Note:The test results of this item please refer to the report in the following test reports (all issued by SGS-CSTC Standards Technical Services (Suzhou) Co. Ltd with original FCC ID:ZMOFM160NA): Report No. FYCR220400010001 (issued May 20, 2022)

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: Only LTE Band 48 executed spot check,and other Bands please refer to the report in the following test reports (all issued by SGS-CSTC Standards Technical Services (Suzhou) Co. Ltd with original FCC ID:ZMOFM160NA):

Report No. FYCR220400010001 (issued May 20, 2022)

Note 4: Test plots please refer to the document "Annex No.:BL-SZ2541209-502 Data Part 1.pdf".

LTE Mode Test Verdict

Test Band	Test Bandwidth	Test Channel	Refer to PlotNote3	Verdict
Band 48	5 MHz	HCH	1.1	Pass

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ANNEX B TEST SETUP PHOTOS

Please refer to the document "BL-SZ2541209-AR RF.PDF".

ANNEX C EUT EXTERNAL PHOTOS

Please refer to the document "BL-SZ2541209-AW.PDF".

ANNEX DEUT INTERNAL PHOTOS

Please refer to the document "BL-SZ2541209-AI.PDF".

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