中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)

ACCREDITED
TESTING LABORATORY
CERTIFICATE # 6356.01

TEST REPORT

Applicant: **INFINIX MOBILITY LIMITED**

Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

FCC ID: **2AIZN-X6858**

Product Name: **Mobile Phone**

Standard(s): **47 CFR Part 2**
47 CFR Part 22, Subpart H
47 CFR Part 24, Subpart E
47 CFR Part 27
ANSI C63.26-2015

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: **2403Y36748E-RF-00E**

Date Of Issue: **2024/12/9**

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol "▲". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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Each test item follows the test standard(s) without deviation.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2403Y36748E-RF-00E	Original Report	2024/12/9

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

General:

EUT Name:	Mobile Phone
EUT Model:	X6858
Operation Bands and modes:	GSM/GPRS: 850/1900 WCDMA: Band 2/4/5 LTE: Band 2/4/5/7/38/41
Modulation Type:	GMSK, 8PSK, BPSK, QPSK, 16QAM
Rated Input Voltage:	DC 3.91V from battery or DC 5V/5-10/11Vfrom adapter
sample number:	RE: 2TEK-1(Type 1) RF: 2TEK-2(Type 1)
EUT Received Date:	2024/10/23
EUT Received Status:	Good
Note: The EUT has two configurations that Type 1 and Type 2 are electrically identical. Please refer to the declaration letter for more detail, which was provided by manufacturer. Per BT report test, radiated emissions below 1 GHz test that Type 1 with charging by Adapter was the worst. Other test item only performs on Type 1 configurations.	

Operation Voltage(V_{DC}) ▲:

Lowest:	3.45	Normal:	3.91	Highest:	4.45

Antenna Information▲:

LB PRX:

Antenn	Antenna Type	Operation Bands	Antenna Frequency Range (MHz)	Antenna Gain(GT) (dBi)	LC (dB)
ANT0	IFA	GSM850	824-849	-6.00	0.5
		PCS1900	1850-1910	-3.10	0.8
		WCDMA B2	1850-1910	-3.10	0.8
		WCDMA B4	1710-1755	-2.10	0.8
		WCDMA B5	824-849	-6.00	0.5
		LTE B2	1850-1910	-3.10	0.8
		LTE B4	1710-1755	-2.10	0.8
		LTE B5	824-849	-6.00	0.5
		LTE B7	2500-2570	-4.20	1
		LTE B38	2570-2620	-4.20	1
		LTE B41	2535-2655	-4.20	1
Note: Lc= Signal Attenuation in the connecting cable between the transmitter and antenna, in dB.					

MHB PRX:

Antenn	Antenna Type	Operation Bands	Antenna Frequency Range (MHz)	Antenna Gain(G_T) (dBi)	L_C (dB)
ANT3	IFA	PCS1900	1850-1910	-6.70	0
		WCDMA B2	1850-1910	-6.70	0
		WCDMA B4	1710-1755	-4.70	0
		LTE B2	1850-1910	-6.70	0
		LTE B4	1710-1755	-4.70	0
		LTE B7	2500-2570	-4.30	0
		LTE B38	2570-2620	-4.30	0
		LTE B41	2535-2655	-4.30	0
Note: Lc= Signal Attenuation in the connecting cable between the transmitter and antenna, in dB.					

LB DRX:

Antenna	Antenna Type	Operation Bands	Antenna Frequency Range (MHz)	Antenna Gain(G_T) (dBi)	L_C (dB)
ANT1	IFA	GSM850	824-849	-2.2	0
		WCDMA B5	824-849	-2.2	0
		LTE B5	824-849	-2.2	0
Note: Lc= Signal Attenuation in the connecting cable between the transmitter and antenna, in dB.					

Accessory Information:

Accessory Description	Manufacturer	Model
Adapter	Infinix	U450XSB

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in each operation mode.
Equipment Modifications:	No
EUT Exercise Software:	No

The maximum power was configured per 3GPP Standard for each operation modes as below setting:

GSM/GPRS

Function: Menu select > GSM Mobile Station > GSM 850/1900
Press Connection control to choose the different menus
Press RESET > choose all the reset all settings
Connection Press Signal Off to turn off the signal and change settings
Network Support > GSM + GPRS or GSM + EGSM
Main Service > Packet Data
Service selection > Test Mode A – Auto Slot Config. off
MS Signal Press Slot Config Bottom on the right twice to select and change the number of time slots and power setting
> Slot configuration > Uplink/Gamma
> 33 dBm for GPRS 850
> 30 dBm for GPRS 1900
> 27 dBm for EGPRS 850
> 26 dBm for EGPRS 1900
BS Signal Enter the same channel number for TCH channel (test channel) and BCCH channel
Frequency Offset > + 0 Hz
Mode > BCCH and TCH

BCCH Level > -85 dBm (May need to adjust if link is not stable)
BCCH Channel > choose desire test channel [Enter the same channel number for TCH channel (test channel) and BCCH channel]

Channel Type > Off
P0 > 4 dB
Slot Config > Unchanged (if already set under MS signal)
TCH > choose desired test channel
Hopping > Off
Main Timeslot > 3
Network Coding Scheme > CS4 (GPRS) and MCS5 (EGPRS)

Bit Stream > 2E9-1 PSR Bit Stream
AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input
Connection Press Signal on to turn on the signal and change settings

WCDMA

The following tests were conducted according to the test requirements outlines in section 5.2 of the 3GPP TS34.121-1 specification.

	Mode	**HSUPA**	**HSUPA**	**HSUPA**	**HSUPA**	**HSUPA**
	Subset	**1**	**2**		**4**	**5**
WCDMA General Settings	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2kbps RMC				
	HSDPA FRC	H-Set1				
	HSUPA Test	HSUPA Loopback				
	Power Control Algorithm	Algorithm2				
	β	11/15	6/15	1 /15	2/15	15/15
	βd	15/15	15/15	9/15	15/15	0
	βec	209/225	12/15	30 15	2/15	5/15
	βc/βd	11/15	6/15	15/9	2/15	-
	βhs	22/15	12/15	30/15	4/15	5/15
	CM(dB)	1.0	3.	2.0	3.0	1.0
	MPR(dB)	0	2	1	2	0
HSDPA Specific Settings	DACK	8				
	DNAK	8				
	DCQI	8				
	Ack-Nack repetition factor	3				
	CQI Feedback	4ms				
	CQI Repetition Factor	2				
	Ahs=βhs/ βc	30/15				
HSUPA Specific Settings	DE-DPCCH	6	8	8	5	7
	DHARQ	0	0	0	0	0
	A Index	20	12	1	17	21
	ETFCI	75	67	92	71	81
	Associated Max UL Data Rate k ps	242.1	174.9	82.8	205.8	308.9
	Reference E_FCls	E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27		E-TFCI 11 E-TFCI PO4 E-TFCI 92 E-TFCI PO 18	E-TFCI 11 E E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71 E-TFCI PO23 E-TFCI 75 E-TFCI PO26 E-TFCI 81 E-TFCI PO 27	

LTE (FDD):

The following tests were conducted according to the test requirements in 3GPP TS36.101

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 3

Modulation	Channel bandwidth / Transmission bandwidth (RB)						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2

The allowed A-MPR values specified below in Table 6.2.4.-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".

Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)

Network Signalling value	Requirements (sub-clause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N_{RB})	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	NA
NS_03	6.6.2.2.1	2, 4,10, 23, 25, 35, 36	3	>5	≤ 1
			5	>6	≤ 1
			10	>6	≤ 1
			15	>8	≤ 1
			20	>10	≤ 1
NS_04	6.6.2.2.2	41	5	>6	≤ 1
			10, 15, 20	See Table 6.2.4-4	
NS_05	6.6.3.3.1	1	10,15,20	≥ 50	≤ 1
NS_06	6.6.2.2.3	12, 13, 14, 17	1.4, 3, 5, 10	Table 5.6-1	n/a
NS_07	6.6.2.2.3 6.6.3.3.2	13	10	Table 6.2.4-2	Table 6.2.4-2
NS_08	6.6.3.3.3	19	10, 15	> 44	≤ 3
NS_09	6.6.3.3.4	21	10, 15	> 40	≤ 1
				> 55	≤ 2
NS_10		20	15, 20	Table 6.2.4-3	Table 6.2.4-3
NS_11	6.6.2.2.1	23[1]	1.4, 3, 5, 10	Table 6.2.4-5	Table 6.2.4-5
..					
NS_32	-	-	-	-	-

Note 1: Applies to the lower block of Band 23, i.e. a carrier placed in the 2000-2010 MHz region.

LTE(TDD):

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS).

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$	$7680 \cdot T_s$	$2192 \cdot T_s$	$2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$
5	$6592 \cdot T_s$	$4384 \cdot T_s$	$5120 \cdot T_s$	$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-	-	-
9	$13168 \cdot T_s$			-	-	-

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Calculated Duty Cycle

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle (%)
		0	1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33

Calculated Duty Cycle = Extended cyclic prefix in uplink x (T_s) x # of S + # of U

Example for Calculated Duty Cycle for Uplink-Downlink Configuration 0:
Calculated Duty Cycle = 5120 x [1/(15000 x 2048)] x 2 + 6 ms = 63.33%
where
T_s = 1/(15000 x 2048) seconds

1.2.2 Support Equipment List and Details

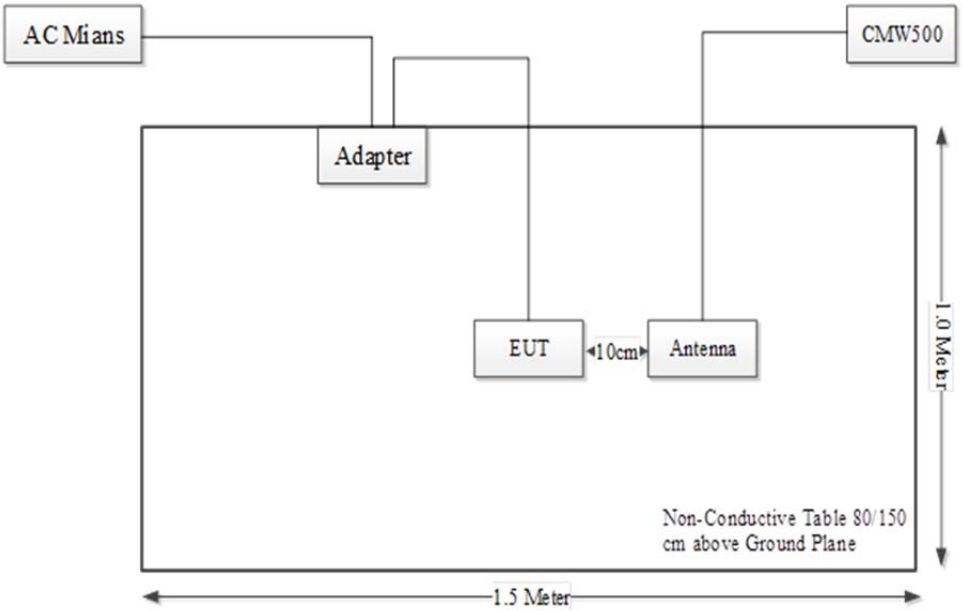
Manufacturer	Description	Model	Serial Number
R&S	Wideband Radio Communication Tester	CMW500	143458
Unknown	Antenna	Unknown	Unknown
Infinix	Adapter	U450XSB	KX07019454805

1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	1	Adapter	EUT
Cable	No	No	10	CMW500	Antenna

1.2.4 Block Diagram of Test Setup

Radiation Test:



1.3 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 dB
Unwanted Emissions, radiated	30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Unwanted Emissions, conducted	±1.26 dB
Temperature	±1℃
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
RF Frequency	$\pm 0.082\times 10^{-6}$

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC§2.1046; §22.913; §27.50; § 24.232	RF Output Power	PASS
FCC§2.1046; § 24.232; §27.50; §22.913	Peak-to-average Ratio(PAR)	PASS
FCC§2.1049; §27.53; §22.905, §22.917; § 24.238	Occupied Bandwidth	PASS
FCC§2.1051; §27.53; §22.917; § 24.238	Spurious Emissions at Antenna Terminal	PASS
FCC§2.1051; § 24.238; §22.917; §27.53	Out of band emission, Band Edge	PASS
FCC§ 2.1055; §27.54; § 24.235; § 22.355	Frequency stability vs. temperature &Frequency stability vs. voltage Compliance	PASS
FCC§ 2.1053; § 22.917; §27.53; § 24.238	Field Strength of Spurious Radiation	PASS

3. REQUIREMENTS AND TEST PROCEDURES

3.1 Applicable Standard For Part 22 Subpart H:

3.1.1 RF Output Power

FCC §22.913
(a)(5) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7watts.

(d) *Power measurement.* Measurement of the ERP of Cellular base transmitters and repeaters must be made using an average power measurement technique. The peak-toaverage ratio (PAR) of the transmission must not exceed 13 dB. Power measurements for base transmitters and repeaters must be made in accordance with either of the following:
(1) A Commission-approved average power technique (*see* FCC Laboratory's Knowledge Database);or
(2) For purposes of this section, peak transmit power must be measured over an interval of continuous transmission using instrumentation calibrated in terms of an rmsequivalent 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.

3.1.2 Spurious Emissions

FCC §22.917

(a) Out of band emissions. 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.

(b) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a reference bandwidth as follows:
(1) In the spectrum below 1 GHz, instrumentation should employ a reference bandwidth of 100 kHz or greater. 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. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy, provided that the measured power is integrated over the full required reference bandwidth (i.e., 100kHz or 1 percent of emission bandwidth, as specified). 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.
(2) In the spectrum above 1 GHz, instrumentation should employ a reference bandwidth of 1 MHz

3.1.3 Frequency stability

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	20	50
50 to 450	5	5	50
450 to 512	2.5	5	5
821 to 896	1.5	**2.5**	**2.5**
928 to 929	5	n/a	n/a
929 to 960	1.5	n/a	n/a
2110 to 2220	10	n/a	n/a

3.2 Applicable Standard For Part 24 Subpart E:

3.2.1 RF Output Power

FCC §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.

(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 paragraph (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.

3.2.2 Spurious Emissions

FCC §24.238

The rules in this section govern the spectral characteristics of emissions in the Broadband Personal Communications Service.

(a) Out of band emissions. 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.

(b) Measurement procedure. Compliance with these rules 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 block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). 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.

(c) Alternative out of band emission limit. Licensees in this service may establish an alternative out of band emission limit to be used at specified band edge(s) in specified geographical areas, in lieu of that set forth in this section, pursuant to a private contractual arrangement of all affected licensees and applicants. In this event, each party to such contract shall maintain a copy of the contract in their station files and disclose it to prospective assignees or transferees and, upon request, to the FCC.

(d) Interference caused by out of band emissions. If any emission from a transmitter operating in this service results in interference to users of another radio service, the FCC may require a greater attenuation of that emission than specified in this section.

3.2.3 Frequency stability

FCC §24.235

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

3.3 Applicable Standard For Part 27:

3.3.1 RF Output Power

FCC §27.50

(a)(3) *Mobile and portable stations.*
(i) For mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz 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. Mobile and portable stations using FDD technology are restricted to transmitting in the 2305-2315 MHz band. Power averaging shall not include intervals in which the transmitter is off.
(ii) Mobile and portable stations are not permitted to transmit in the 2315-2320 MHz and 2345-2350 MHz bands.
(iii) *Automatic transmit power control.* Mobile and portable stations transmitting in the 2305-2315 MHz band or in the 2350-2360 MHz band must employ automatic transmit power control when operating so the stations operate with the minimum power necessary for successful communications.
(iv) *Prohibition on external vehicle-mounted antennas.* The use of external vehicle-mounted antennas for mobile and portable stations transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band is prohibited.

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

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

(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.

(h) The following power limits shall apply in the BRS and EBS:
(2)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.

3.3.2 Spurious Emissions

FCC §27.53

(a) For operations in the 2305-2320 MHz band and the 2345-2360 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power P (with averaging performed only during periods of transmission) within the licensed band(s) of operation, in watts, by the following amounts:

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

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

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

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

(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.

(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.
(g) For operations in the 600 MHz band and the 698-746 MHz 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 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

(h) AWS emission limits
(1)***General protection levels.*** 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.

(m)(4) For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 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.

3.3.3 Frequency stability

FCC §27.54

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

3.4 Test Method:

3.4.1 RF Output Power

According to CFR Part 2.1046, ANSI C63.26-2015 Section 5.2.5.5:

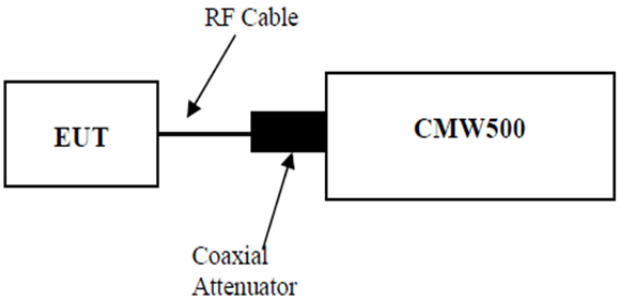
The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{Meas} + G_T - L_C$$

where:

ERP or EIRP = effective radiated power or equivalent isotropically 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;
G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

Test Setup Block:



Note: The Insertion loss of the RF cable and coaxial Attenuator was offset into the Reading of CMW500.

3.4.2 Occupied Bandwidth

According to CFR Part 2.1049, ANSI C63.26-2015 Section 5.4.4

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

The following procedure shall be used for measuring (99%) 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 (typically a span of 1.5 × OBW is sufficient).

b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set ≥ 3 × RBW.

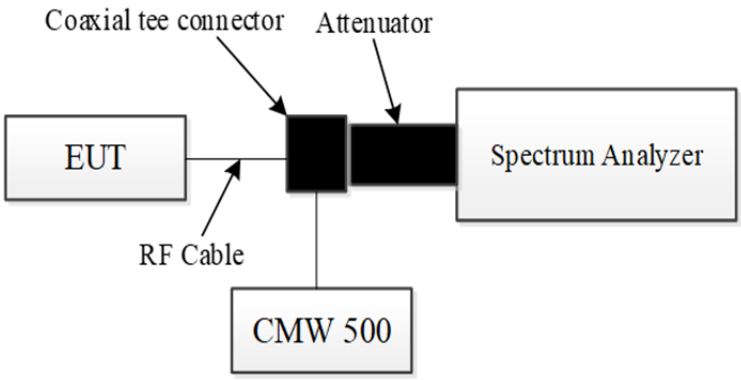
c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in4.2.3. NOTE—Step a), step b), and step c) may require iteration to adjust within the specified tolerances.

d) Set the detection mode to peak, and the trace mode to max-hold.

e) If the instrument does not have a 99% OBW function, recover the trace data points and sum directly in linear power terms. Place the recovered amplitude data points, beginning at the lowest frequency, in a running sum until 0.5% of the total is reached. Record that frequency as the lower OBW frequency. Repeat the process until 99.5% of the total is reached and record that frequency as the upper OBW frequency. The 99% power OBW can be determined by computing the difference these two frequencies.

f) The OBW shall be reported and plot(s) of the measuring instrument display shall be provided with the test report. The frequency and amplitude axis and scale shall be clearly labeled. Tabular data can be reported in addition to the plot(s).

Test Setup Block:

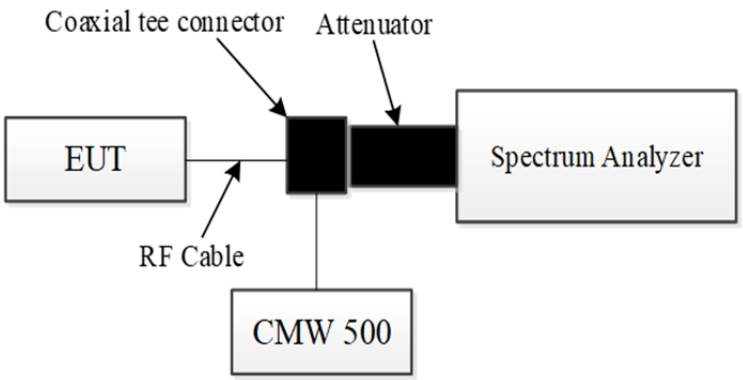


3.4.3 Transmitter unwanted emissions-at antenna terminals

According to ANSI C63.26-2015 Section 5.7.4:

the applicable rule part specifies the reference bandwidth for measuring unwanted emission levels (typically, 100 kHz if the authorized frequency band/block is at or below 1 GHz and 1 MHz if the authorized frequency band/block is above 1 GHz),8 effectively depicting the unwanted emission limit in terms of a power spectral density. In those cases where no reference bandwidth is explicitly specified, the values in the preceding sentence should be used.

Test Setup Block:

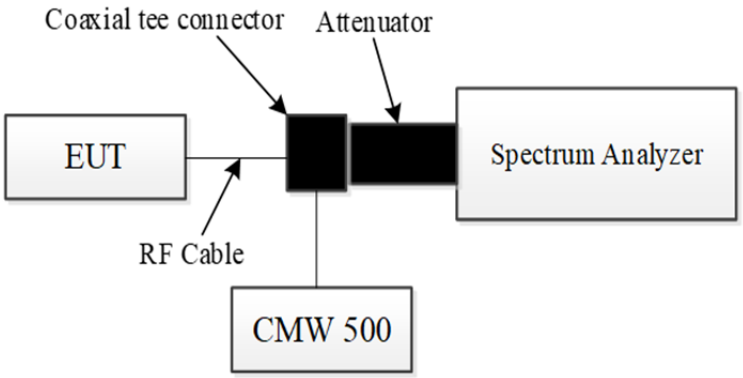


3.4.4 Out of band emission

According to ANSI C63.26-2015 Section 5.7.3:

Typically, a measurement (resolution) bandwidth smaller than the reference bandwidth is allowed for measurements within a specified frequency range at the edge of the authorized frequency block/band (e.g., within the first Y MHz outside of the authorized frequency band/block, where the value of Y is specified in the relevant rule part). Some FCC out-of-band emission rules permit the use of a narrower RBW (typically limited to a minimum RBW of 1 % of the OBW) for measuring the out-of-band emissions without a requirement to integrate the result over the full reference bandwidth. Beyond the specified frequency range in which this relaxation of the uniform reference bandwidth is permitted, it typically is also acceptable to use a narrower RBW (again limited to a minimum of 1 % of OBW) to increase accuracy, but the measurement result must subsequently be integrated over the full reference bandwidth.

Test Setup Block:



3.4.5 Frequency stability

According to ANSI C63.26-2015 Section 5.6:

Frequency stability is a measure of the frequency drift due to temperature and supply voltage variations,with reference to the frequency measured at +20 °C and rated supply voltage.

The operating carrier frequency shall be set up in accordance with the manufacturer's published operation and instruction manual prior to the commencement of these tests. No adjustment of any frequency determining circuit element shall be made subsequent to this initial set-up. Frequency stability is tested:

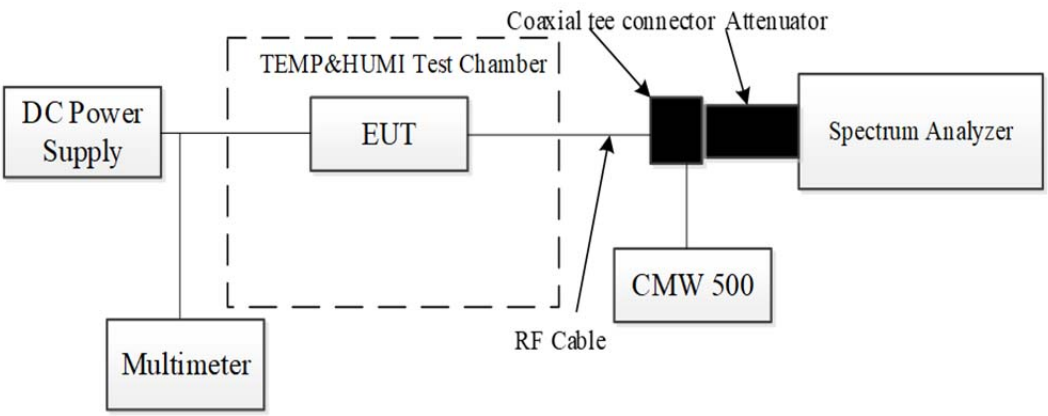
a) At 10 °C intervals of temperatures between −30 °C and +50 °C at the manufacturer's rated supply voltage, and

b) At +20 °C temperature and ±15% supply voltage variations. If a product is specified to operate over a range of input voltage then the −15% variation is applied to the lowermost voltage and the +15%is applied to the uppermost voltage.

During the test all necessary settings, adjustments and control of the EUT have to be performed without disturbing the test environment, i.e., without opening the environmental chamber. The frequency stabilities can be maintained to a lesser temperature range provided that the transmitter is automatically inhibited from operating outside the lesser temperature range. For handheld equipment that is only capable of operating from internal batteries and the supply voltage cannot be varied, the frequency stability tests shall be performed at the nominal battery voltage and the battery end point voltage specified by the manufacturer. An external supply voltage can be used and set at the internal battery nominal voltage, and again at the battery operating end point voltage which shall be specified by the equipment manufacturer.

If an unmodulated carrier is not available, the mean frequency of a modulated carrier can be obtained by using a frequency counter with gating time set to an appropriately large multiple of bit periods (gating time depending on the required accuracy). Full details on the choice of values shall be included in the test report.

Test Setup Block:



3.4.6 Transmitter unwanted emissions-Radiated Spurious emissions

According to ANSI C63.26-2015 Section 5.5.3:

Test setup:

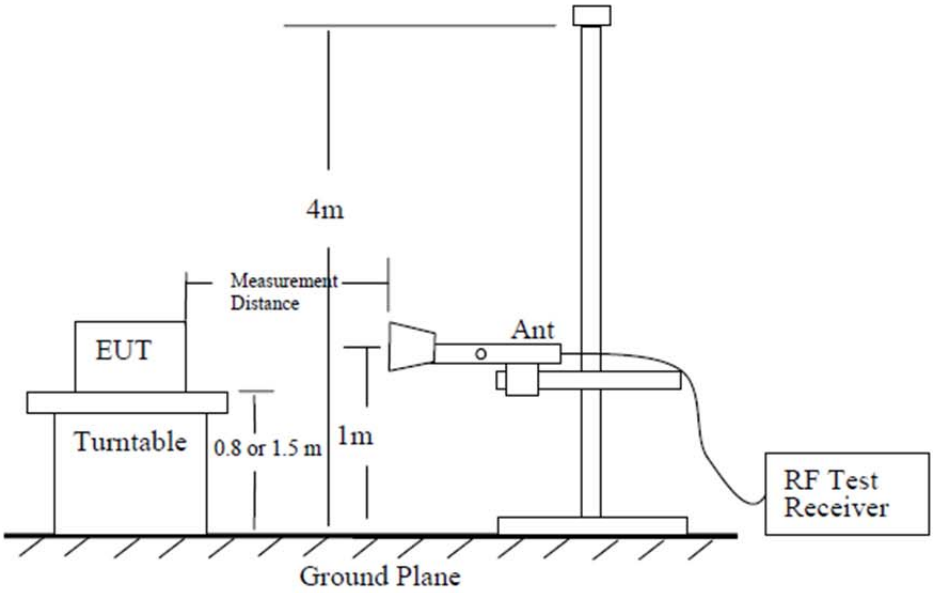


Figure 6 —Test site-up for radiated ERP and/or EIRP measurements

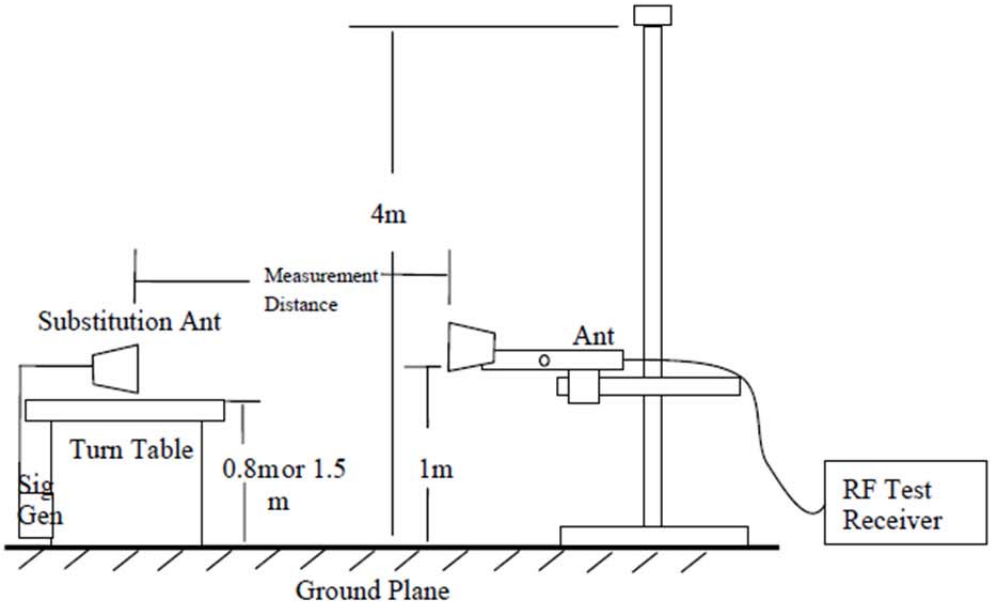


Figure 7 —Substitution method set-up for radiated emission

Test Procedure:

a) Place the EUT in the center of the turntable. The EUT shall be configured to transmit into the standard non-radiating load (for measuring radiated spurious emissions), connected with cables of minimal length unless specified otherwise. If the EUT uses an adjustable antenna, the antenna shall be positioned to the length that produces the worst case emission at the fundamental operating frequency.

b) Each emission under consideration shall be evaluated:

   1) Raise and lower the measurement antenna in accordance 5.5.2, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.

   2) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.

   3) Return the turntable to the azimuth where the highest emission amplitude level was observed.

   4) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.

   5) Record the measured emission amplitude level and frequency using the appropriate RBW.

c) Repeat step b) for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.

d) Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.

e) Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.

f) Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.

g) For each emission that was detected and measured in the initial test [i.e., in step b) and step c)]:

   1) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.

   2) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step b) and step c).

   3) Record the output power level of the signal generator when equivalence is achieved in step 2).

h) Repeat step e) through step g) with the measurement antenna oriented in the opposite polarization.

i) Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:

$$Pe = Ps(dBm) - \text{cable loss (dB)} + \text{antenna gain (dBd)}$$

where

Pe = equivalent emission power in dBm
Ps = source (signal generator) power in dBm

NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

j) Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from: gain (dBd) = gain (dBi) − 2.15 dB. If necessary, the antenna gain can be calculated from calibrated antenna factor information

k) Provide the complete measurement results as a part of the test report.

4. TEST DATA AND RESULTS

4.1 Antenna Port Test Data and Results for GSM 850 band

Sample Number:	2TEK-2	Test Date:	2024/11/19
Test Site:	RF	Test Mode:	Transmitting
Tester:	Leo Li	Test Result:	**Pass**

Environmental Conditions:					
Temperature: (℃)	27.2	Relative Humidity: (%)	50	ATM Pressure: (kPa)	101.5

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Anritsu	Radio Communication Analyzer	MT8820C	6201010144	2024/10/10	2025/10/9
R&S	Spectrum Analyzer	FSU26	200256	2024/4/1	2025/3/31
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Unknown	Coaxial tee connector	Unknown	2204004	Each time	N/A
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2024/4/1	2025/3/31
UNI-T	Multimeter	UT39A+	C210582554	2024/1/23	2025/1/22
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Frequency For Each Mode:

Operation Modes	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
GSM	824.2	836.6	848.8
GPRS	824.2	836.6	848.8

Test Data:

RF Output Power

Test Mode	Conducted Peak Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
GSM	**28.01**	27.83	26.77	23.66	38.45
GPRS 1 Slot	27.98	27.28	26.77	23.63	38.45
GPRS 2 Slots	27.88	27.15	26.66	23.53	38.45
GPRS 3 Slots	27.61	26.88	26.42	23.26	38.45
GPRS 4 Slots	27.35	26.65	26.17	23	38.45

Note:
ERP= Conducted Power(dBm) - L_C(dB) + G_T(dBd)
G_T(dBd)=G_T(dBi)-2.15
Use ANT1 to calculate maximum ERP.

Result:	**Pass**

Occupied Bandwidth

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
GSM	0.244	0.244	0.244	0.319	0.31	0.318

Note: The test plots please refer to the Plots of Occupied Bandwidth

Spurious Emissions at Antenna Terminal

Result:	**Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.**

Out of band emission, Band Edge

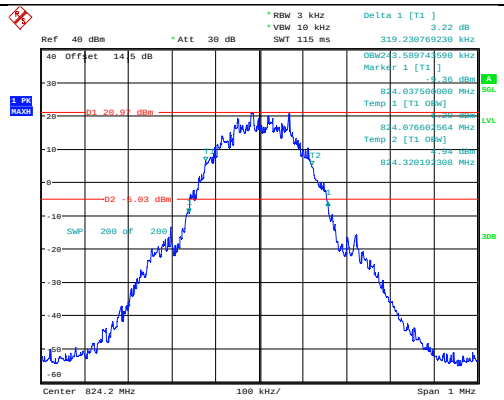
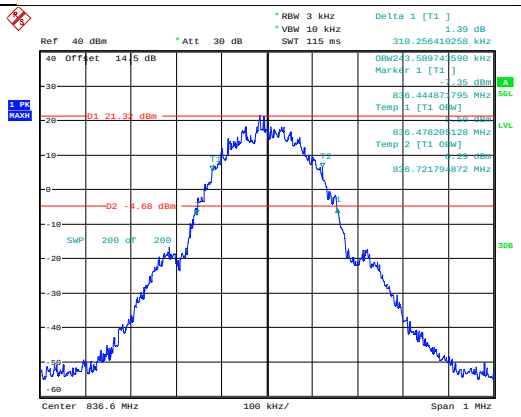
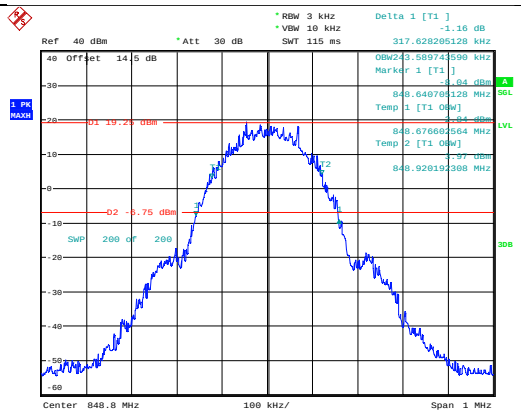
Result:	**Pass, Please refer to the test plots of Out of band emission, Band Edge.**

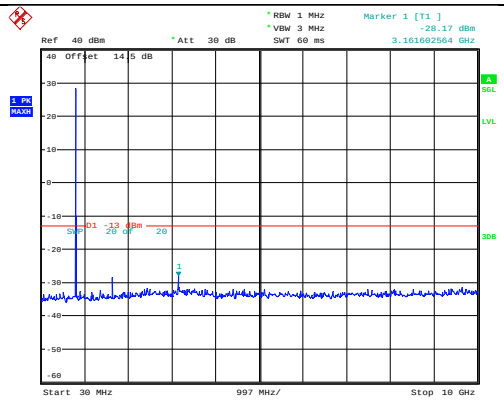
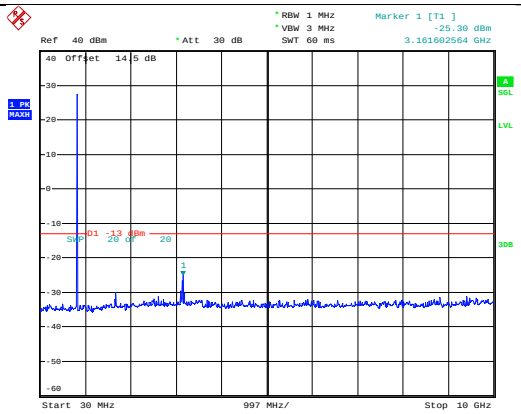
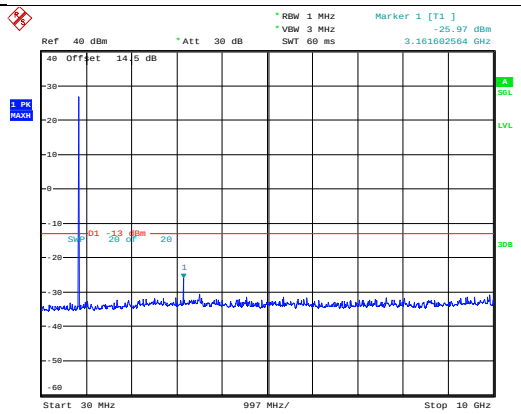
Frequency Stability

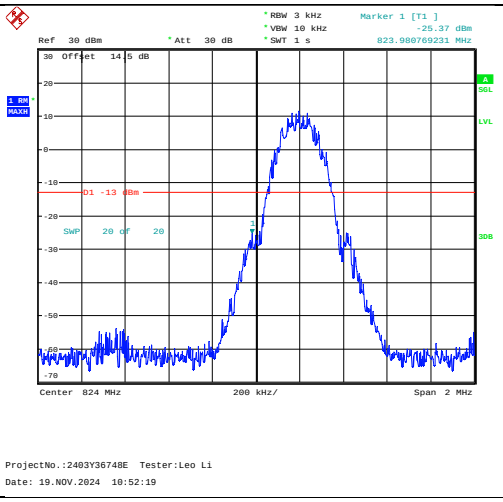
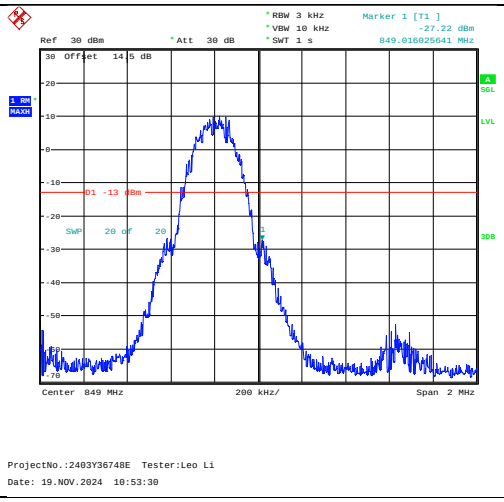
Test Modulation:	GMSK		Test Channel:	836.6	MHz
Test Item	Temperature (℃)	Voltage (V_{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.91	41	0.049	2.5
	-20	3.91	15	0.018	2.5
	-10	3.91	13	0.016	2.5
	0	3.91	48	0.057	2.5
	10	3.91	25	0.030	2.5
	20	3.91	27	0.032	2.5
	30	3.91	5	0.006	2.5
	40	3.91	19	0.023	2.5
	50	3.91	57	0.068	2.5
Frequency Stability vs. Voltage	20	3.45	26	0.031	2.5
	20	4.5	32	0.038	2.5

Result:	**Pass**

Test Plots (Note: The 14.5 dB is the Insertion loss of the RF cable, Coaxial tee connector and Attenuator, which was offset into the Spectrum Analyzer):

Occupied Bandwidth	
Channel	**GSM**
Lowest	
Middle	
Highest	

Spurious Emissions at Antenna Terminal	
Channel	**GSM**
Lowest	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 19.NOV.2024 10:50:33
Middle	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 19.NOV.2024 10:49:50
Highest	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 19.NOV.2024 10:48:40

Out of band emission, Band Edge		
Mode	Lowest	Highest
GSM		

4.2 Antenna Port Test Data and Results for GSM 1900 band

Sample Number:	2TEK-2	Test Date:	2024/11/19
Test Site:	RF	Test Mode:	Transmitting
Tester:	Leo Li	Test Result:	**Pass**

Environmental Conditions:					
Temperature: (℃)	27.2	Relative Humidity: (%)	50	ATM Pressure: (kPa)	101.5

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Anritsu	Radio Communication Analyzer	MT8820C	6201010144	2024/10/10	2025/10/9
R&S	Spectrum Analyzer	FSU26	200256	2024/4/1	2025/3/31
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Unknown	Coaxial tee connector	Unknown	2204004	Each time	N/A
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2024/4/1	2025/3/31
UNI-T	Multimeter	UT39A+	C210582554	2024/1/23	2025/1/22
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Frequency For Each Mode:

Operation Modes	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
GSM	1850.2	1880	1909.8
GPRS	1850.2	1880	1909.8

Test Data:

RF Output Power

Test Mode	Conducted Peak Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
GSM	**25.8**	25.6	25.63	21.9	33
GPRS 1 Slot	25.79	25.57	**25.8**	21.9	33
GPRS 2 Slots	25.66	25.47	25.59	21.76	33
GPRS 3 Slots	25.46	25.13	25.25	21.56	33
GPRS 4 Slots	25.29	24.94	25.09	21.39	33
Note: EIRP=Conducted Power(dBm) - L_C(dB) + G_T(dBi) Use ANT0 to calculate maximum EIRP.					
				Result:	**Pass**

Occupied Bandwidth

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
GSM	0.248	0.244	0.245	0.318	0.314	0.314
Note: The test plots please refer to the Plots of Occupied Bandwidth						

Spurious Emissions at Antenna Terminal

Result:	**Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.**

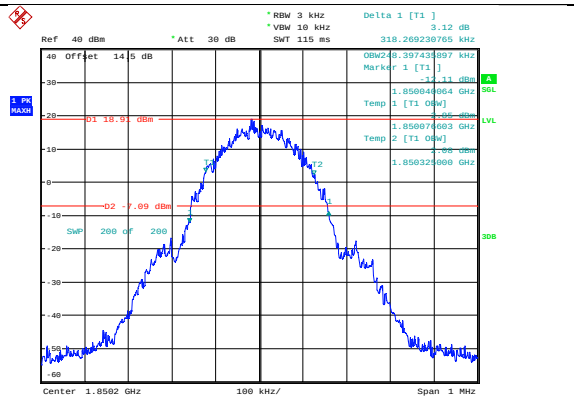
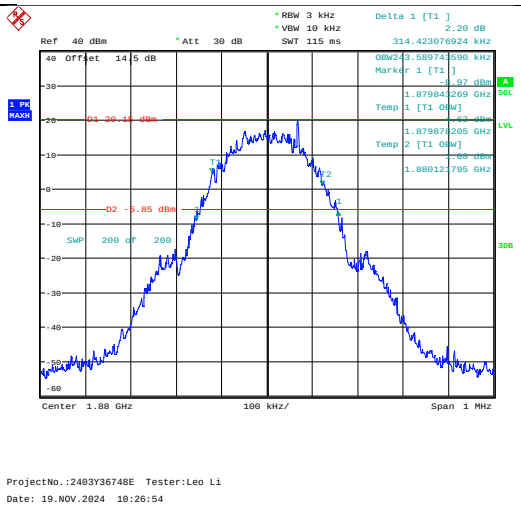
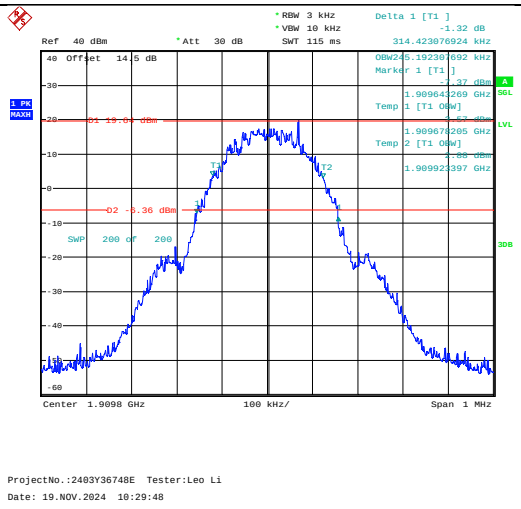
Out of band emission, Band Edge

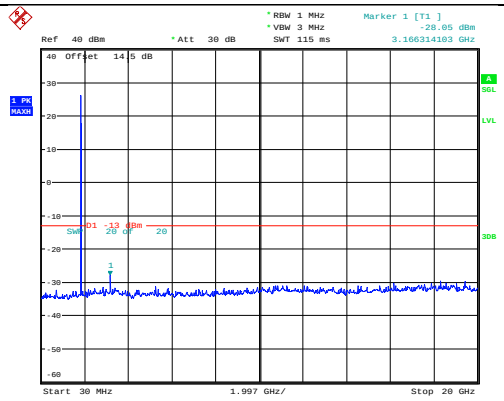
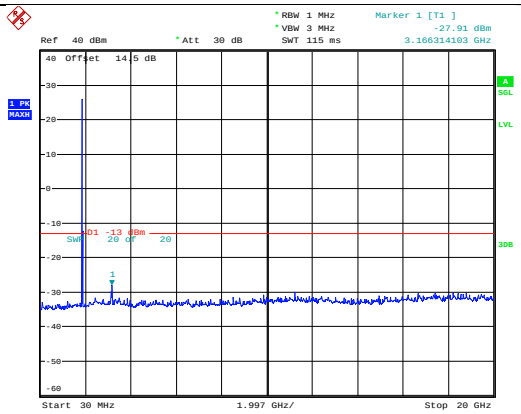
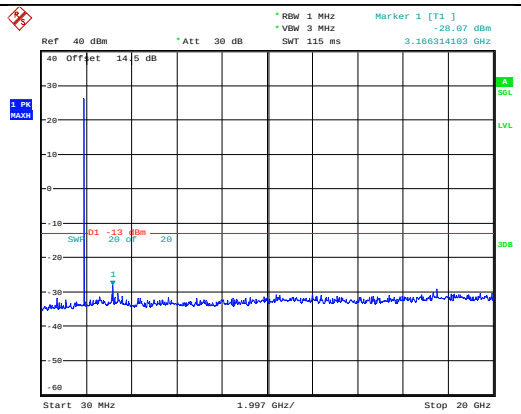
Result:	**Pass, Please refer to the test plots of Out of band emission, Band Edge.**

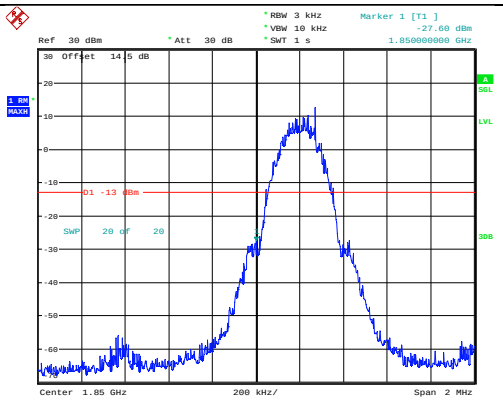
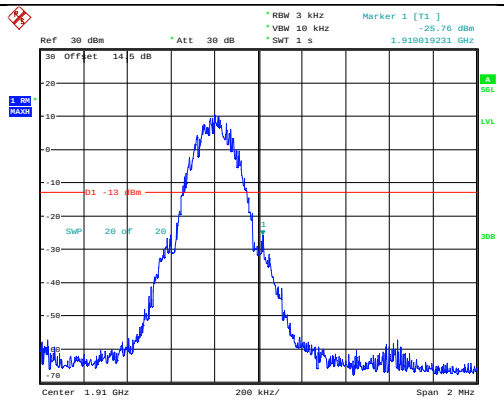
Frequency Stability

Test Mode:	GMSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1850.069	1850.000	1909.925	1910.000
	-20	3.91	1850.064	1850.000	1909.927	1910.000
	-10	3.91	1850.075	1850.000	1909.952	1910.000
	0	3.91	1850.064	1850.000	1909.941	1910.000
	10	3.91	1850.055	1850.000	1909.941	1910.000
	20	3.91	1850.077	1850.000	1909.923	1910.000
	30	3.91	1850.066	1850.000	1909.944	1910.000
	40	3.91	1850.051	1850.000	1909.926	1910.000
	50	3.91	1850.061	1850.000	1909.940	1910.000
Frequency Stability vs. Voltage	20	3.45	1850.061	1850.000	1909.944	1910.000
	20	4.5	1850.075	1850.000	1909.925	1910.000
					Result:	**Pass**

Test Plots (Note: The 14.5 dB is the Insertion loss of the RF cable, Coaxial tee connector and Attenuator, which was offset into the Spectrum Analyzer):

Occupied Bandwidth	
Channel	**GSM**
Lowest	
Middle	
Highest	

Spurious Emissions at Antenna Terminal	
Channel	**GSM**
Lowest	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 19.NOV.2024 10:20:27
Middle	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 19.NOV.2024 10:19:37
Highest	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 19.NOV.2024 10:18:28

Out of band emission, Band Edge		
Channel	Lowest	Highest
GSM		

4.3 Antenna Port Test Data and Results for WCDMA Band 2

Sample Number:	2TEK-2	Test Date:	2024/11/11-2024/11/12
Test Site:	RF	Test Mode:	Transmitting
Tester:	Leo Li	Test Result:	**Pass**

Environmental Conditions:					
Temperature: (℃)	26.3-27.5	Relative Humidity: (%)	52-56	ATM Pressure: (kPa)	100.8-100.9

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Anritsu	Radio Communication Analyzer	MT8820C	6201010144	2024/10/10	2025/10/9
R&S	Spectrum Analyzer	FSU26	200256	2024/4/1	2025/3/31
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Unknown	Coaxial tee connector	Unknown	2204004	Each time	N/A
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2024/4/1	2025/3/31
UNI-T	Multimeter	UT39A+	C210582554	2024/1/23	2025/1/22
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Frequency For Each Mode:

Operation Modes	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
WCDMA	1852.4	1880	1907.6

Test Data:

RF Output Power

Test Mode	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	**16.94**	16.66	16.38	13.04	33
HSDPA Subtest 1	16.27	16.01	15.94	12.37	33
HSDPA Subtest 2	16.24	16.13	15.98	12.34	33
HSDPA Subtest 3	16.25	16.08	15.92	12.35	33
HSDPA Subtest 4	16.29	16.17	15.89	12.39	33
HSUPA Subtest 1	16.31	16.12	15.87	12.41	33
HSUPA Subtest 2	16.28	16.18	15.77	12.38	33
HSUPA Subtest 3	16.25	16.02	15.99	12.35	33
HSUPA Subtest 4	16.34	16.11	15.86	12.44	33
HSUPA Subtest 5	16.3	16.15	15.93	12.4	33

Note: EIRP=Conducted Power(dBm) - L_C(dB) + G_T(dBi)
Use ANT0 to calculate maximum EIRP.

Result:	**Pass**

Peak-to-average Ratio(PAR)

Test Mode	Peak-to-average Ratio(dB)			Limit (dB)
	Lowest Channel	Middle Channel	Highest Channel	
WCDMA R99	3.04	3.01	3.04	13
HSDPA	4.04	3.37	4.04	13
HSUPA	3.01	3.11	3.65	13

Result:	**Pass**

Occupied Bandwidth

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
WCDMA R99	4.151	4.183	4.183	4.728	4.76	4.744
HSDPA	4.183	4.183	4.183	4.753	4.76	4.744
HSUPA	4.167	4.183	4.183	4.744	4.744	4.776

Note: The test plots please refer to the Plots of Occupied Bandwidth

Spurious Emissions at Antenna Terminal

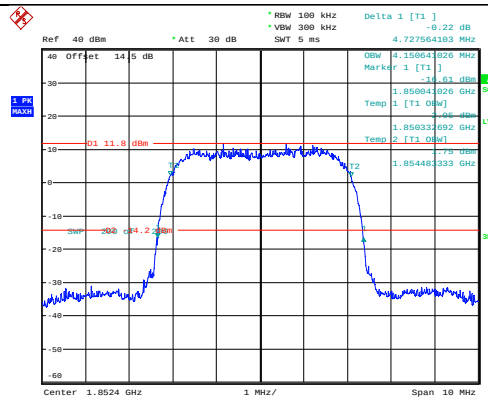
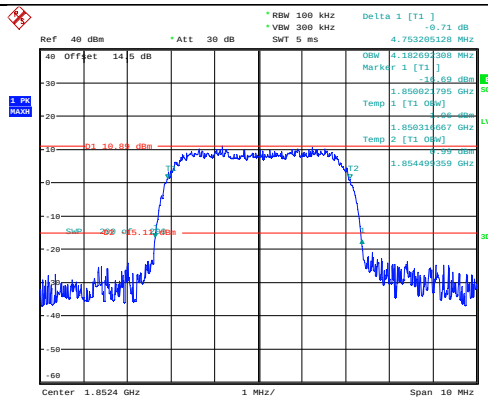
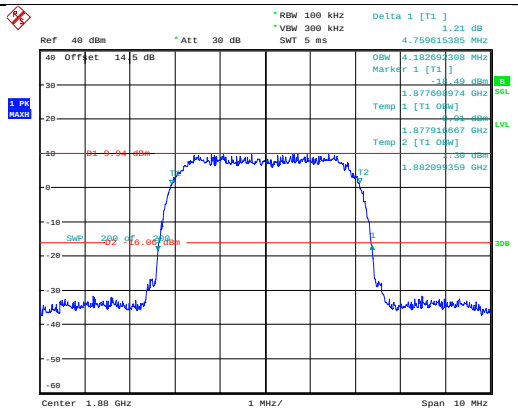
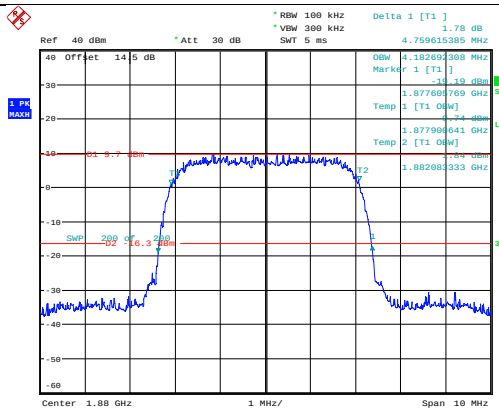
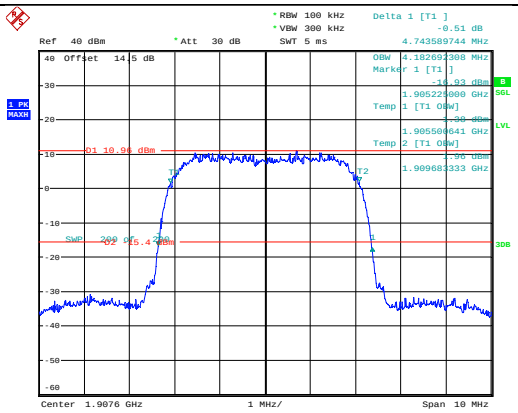
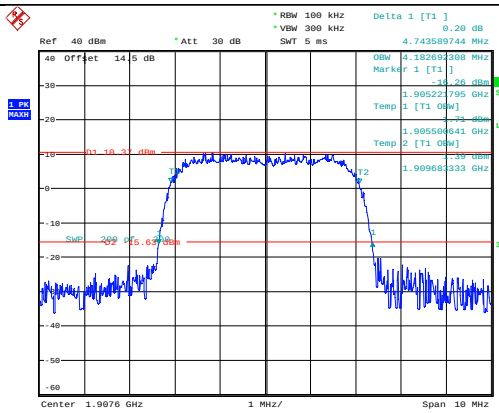
Result:	**Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.**

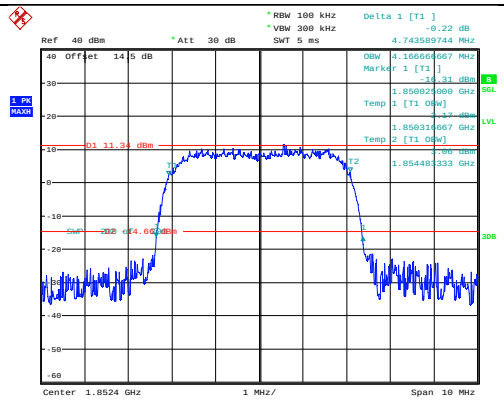
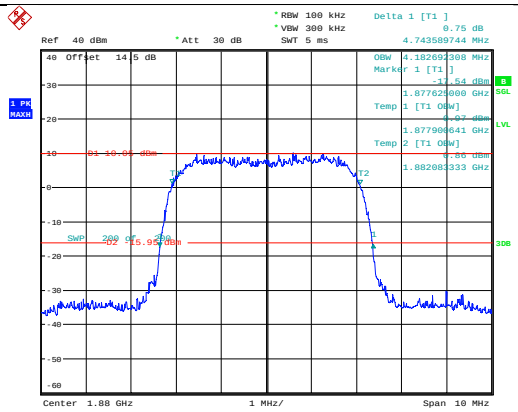
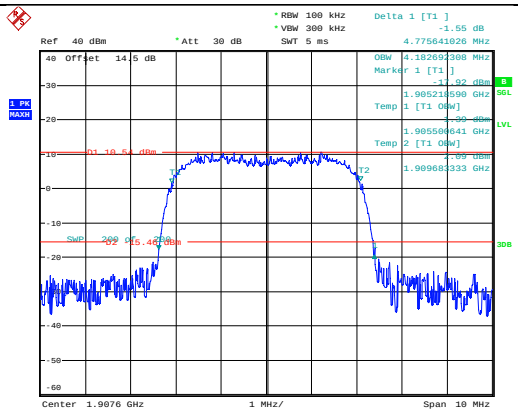
Out of band emission, Band Edge

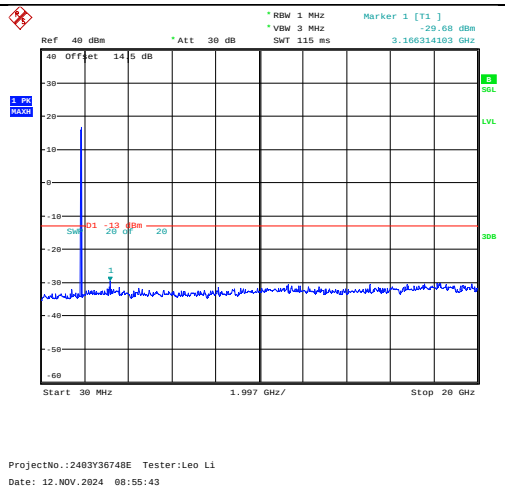
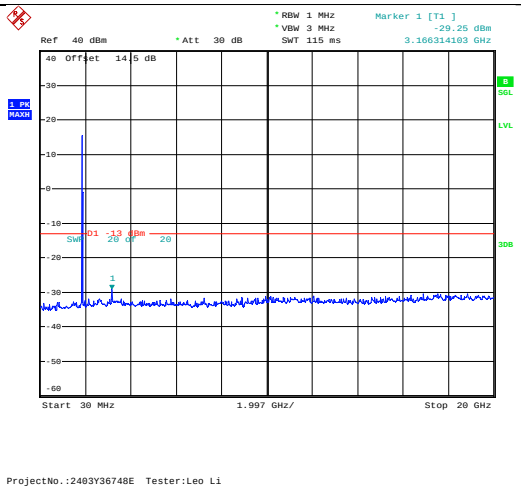
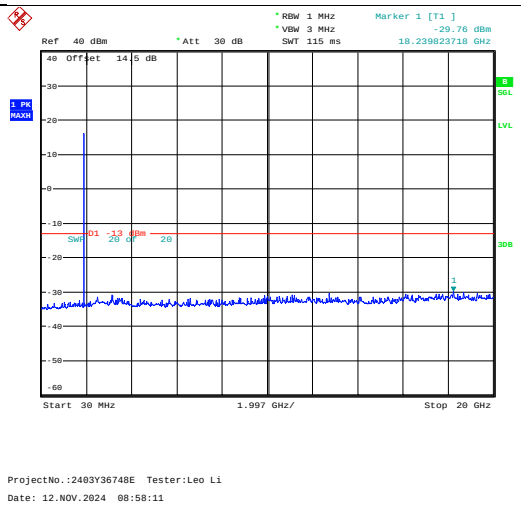
Result:	**Pass, Please refer to the test plots of Out of band emission, Band Edge.**

Frequency Stability						
Test Mode:	WCDMA R99	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1850.016	1850.000	1909.684	1910.000
	-20	3.91	1850.021	1850.000	1909.711	1910.000
	-10	3.91	1850.023	1850.000	1909.704	1910.000
	0	3.91	1850.016	1850.000	1909.706	1910.000
	10	3.91	1850.035	1850.000	1909.698	1910.000
	20	3.91	1850.041	1850.000	1909.683	1910.000
	30	3.91	1850.036	1850.000	1909.706	1910.000
	40	3.91	1850.034	1850.000	1909.693	1910.000
	50	3.91	1850.038	1850.000	1909.695	1910.000
Frequency Stability vs. Voltage	20	3.45	1850.028	1850.000	1909.703	1910.000
	20	4.5	1850.039	1850.000	1909.706	1910.000
					Result:	**Pass**

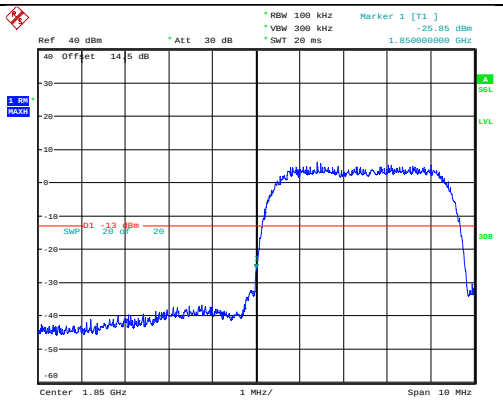
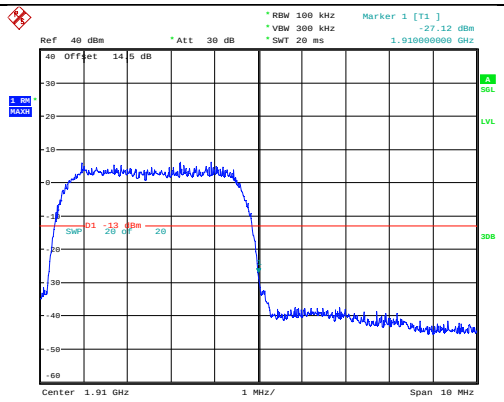
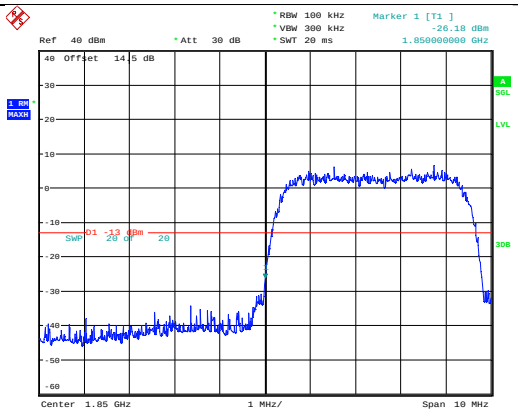
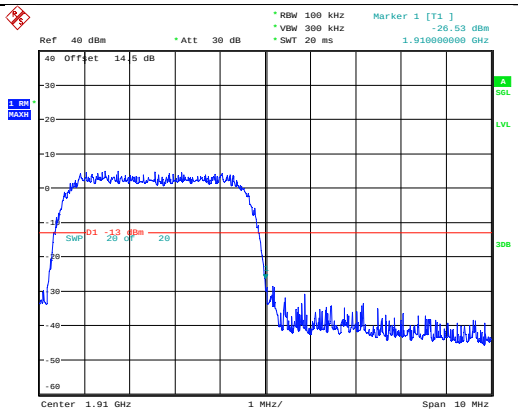
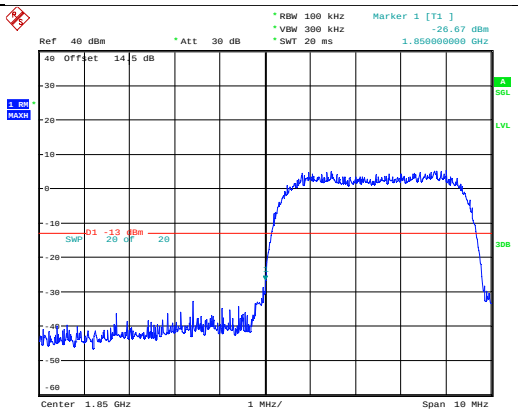
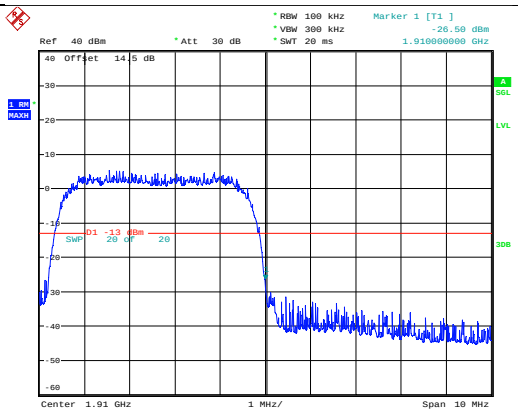
Test Plots (Note: The 14.5 dB is the Insertion loss of the RF cable, Coaxial tee connector and Attenuator, which was offset into the Spectrum Analyzer):

Occupied Bandwidth		
Channel	WCDMA R99	HSDPA
Lowest		
Middle		
Highest		

Occupied Bandwidth	
Channel	HSUPA
Lowest	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 11.NOV.2024 15:32:02
Middle	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 11.NOV.2024 15:34:14
Highest	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 11.NOV.2024 15:36:29

Spurious Emissions at Antenna Terminal	
Channel	WCDMA R99
Lowest	
Middle	
Highest	

Out of band emission, Band Edge

Mode	Lowest	Highest
R99	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 11.NOV.2024 14:53:55	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 11.NOV.2024 14:55:44
HSUPA	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 12.NOV.2024 09:51:41	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 12.NOV.2024 09:50:44
HSDPA	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 12.NOV.2024 09:49:09	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 12.NOV.2024 09:49:59

4.4 Antenna Port Test Data and Results for WCDMA Band 4

Sample Number:	2TEK-2	Test Date:	2024/11/11-2024/11/12
Test Site:	RF	Test Mode:	Transmitting
Tester:	Leo Li	Test Result:	**Pass**

Environmental Conditions:					
Temperature: (℃)	26.3-27.5	Relative Humidity: (%)	52-56	ATM Pressure: (kPa)	100.8-100.9

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Anritsu	Radio Communication Analyzer	MT8820C	6201010144	2024/10/10	2025/10/9
R&S	Spectrum Analyzer	FSU26	200256	2024/4/1	2025/3/31
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Unknown	Coaxial tee connector	Unknown	2204004	Each time	N/A
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2024/4/1	2025/3/31
UNI-T	Multimeter	UT39A+	C210582554	2024/1/23	2025/1/22
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Frequency For Each Mode:

Operation Modes	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
WCDMA	1712.4	1732.6	1752.6

Test Data:

RF Output Power

Test Mode	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	**16.98**	16.54	16.5	14.88	30
HSDPA Subtest 1	16.4	15.93	15.92	14.3	30
HSDPA Subtest 2	16.52	15.99	15.91	14.42	30
HSDPA Subtest 3	16.48	15.87	15.85	14.38	30
HSDPA Subtest 4	16.47	15.82	15.88	14.37	30
HSUPA Subtest 1	16.06	15.86	15.62	13.96	30
HSUPA Subtest 2	16.01	15.82	15.63	13.91	30
HSUPA Subtest 3	16.08	15.76	15.66	13.98	30
HSUPA Subtest 4	16.15	15.78	15.59	14.05	30
HSUPA Subtest 5	16.14	15.85	15.57	14.04	30
Note: EIRP=Conducted Power(dBm) - L_C(dB) + G_T(dBi) Use ANT0 to calculate maximum EIRP.					
				Result:	**Pass**

Peak-to-average Ratio(PAR)

Test Mode	Peak-to-average Ratio(dB)			Limit (dB)
	Lowest Channel	Middle Channel	Highest Channel	
WCDMA R99	3.14	3.04	3.14	13
HSDPA	3.75	4.13	3.49	13
HSUPA	3.24	4.01	3.53	13
				Result: **Pass**

Occupied Bandwidth

Opration Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
WCDMA R99	4.167	4.151	4.183	4.744	4.744	4.744
HSDPA	4.183	4.183	4.183	4.734	4.744	4.728
HSUPA	4.183	4.167	4.167	4.712	4.705	4.728
Note: The test plots please refer to the Plots of Occupied Bandwidth						

Spurious Emissions at Antenna Terminal

Result:	**Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.**

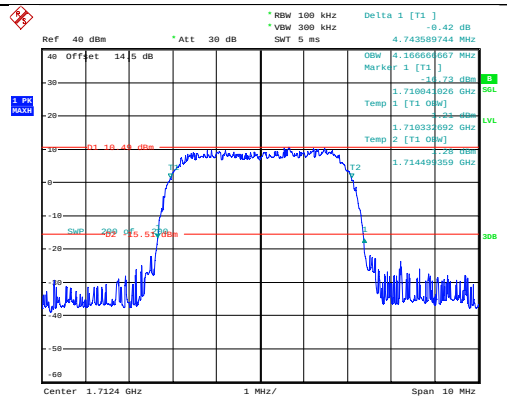
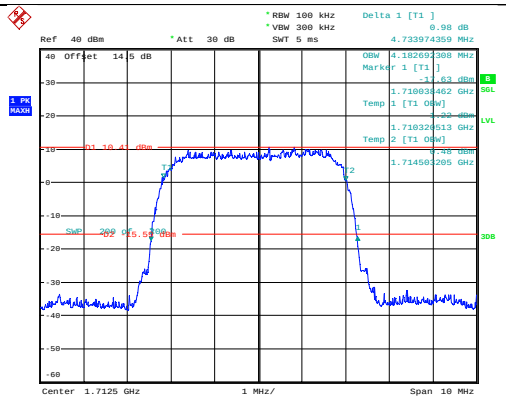
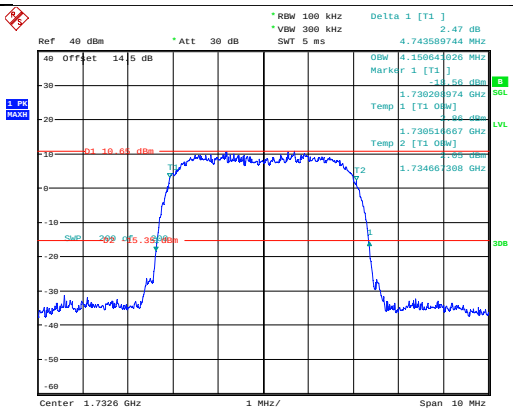
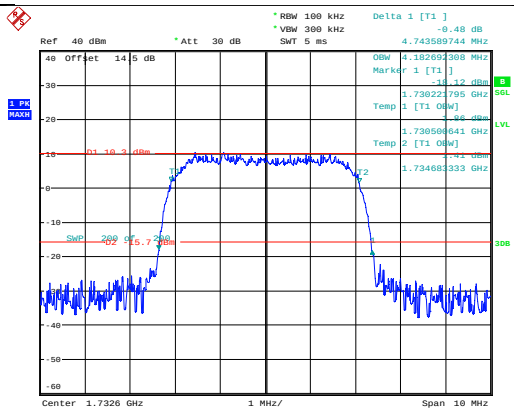
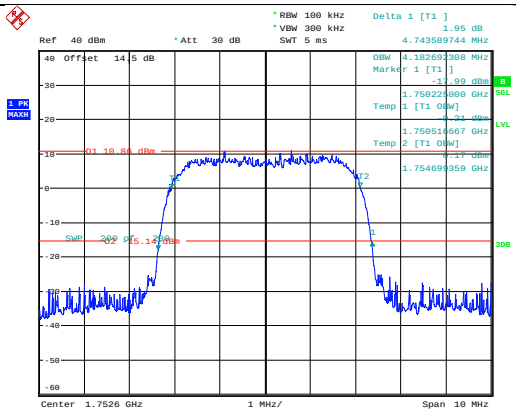
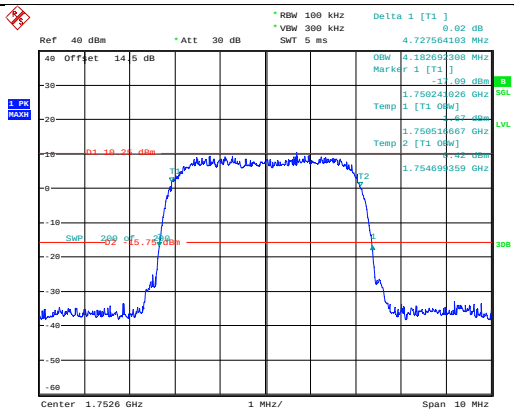
Out of band emission, Band Edge

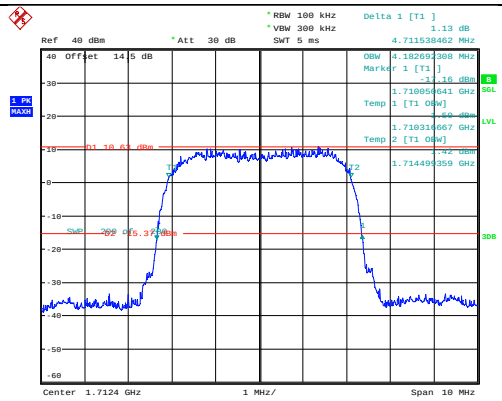
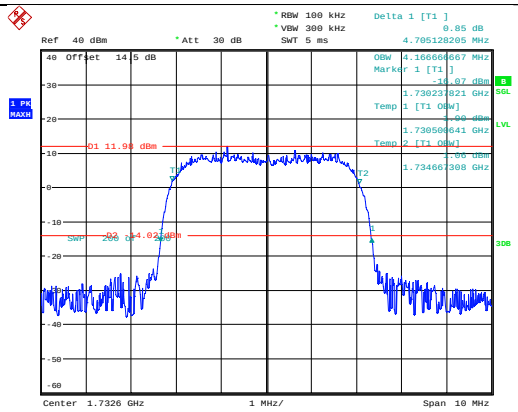
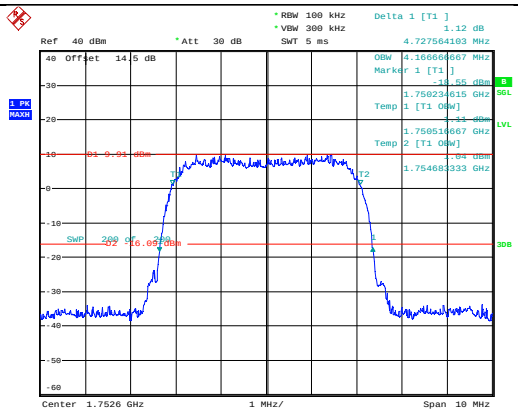
Result:	**Pass, Please refer to the test plots of Out of band emission, Band Edge.**

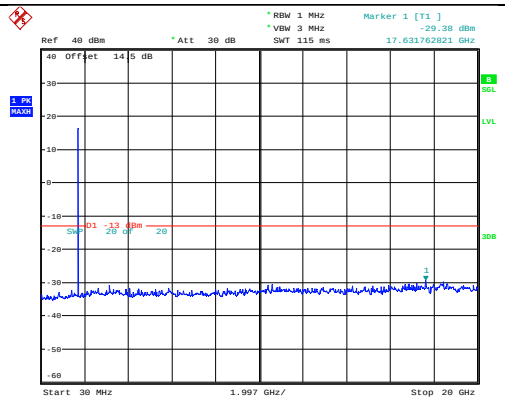
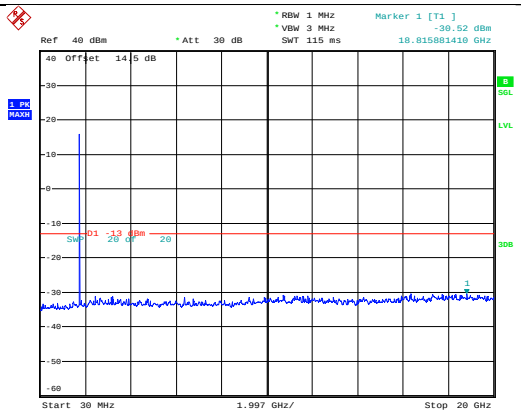
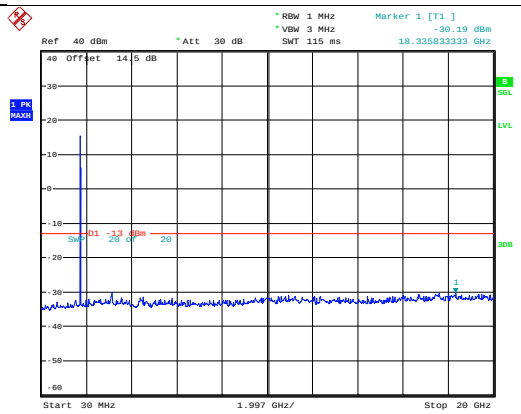
Frequency Stability

Test Mode:	WCDMA R99	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1710.322	1710.000	1754.710	1755.000
	-20	3.91	1710.314	1710.000	1754.726	1755.000
	-10	3.91	1710.314	1710.000	1754.708	1755.000
	0	3.91	1710.305	1710.000	1754.723	1755.000
	10	3.91	1710.328	1710.000	1754.712	1755.000
	20	3.91	1710.333	1710.000	1754.699	1755.000
	30	3.91	1710.331	1710.000	1754.726	1755.000
	40	3.91	1710.309	1710.000	1754.728	1755.000
	50	3.91	1710.318	1710.000	1754.725	1755.000
Frequency Stability vs. Voltage	20	3.45	1710.323	1710.000	1754.709	1755.000
	20	4.5	1710.314	1710.000	1754.715	1755.000
					Result:	**Pass**

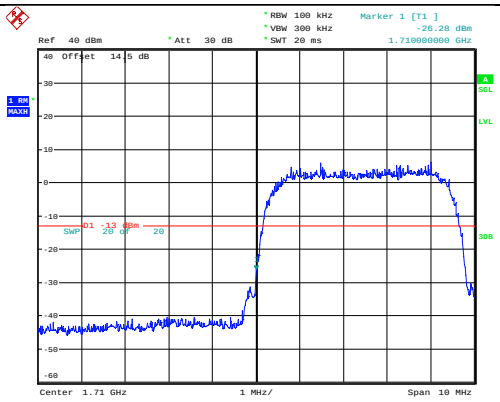
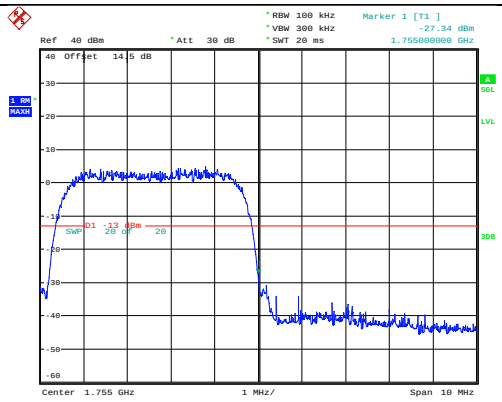
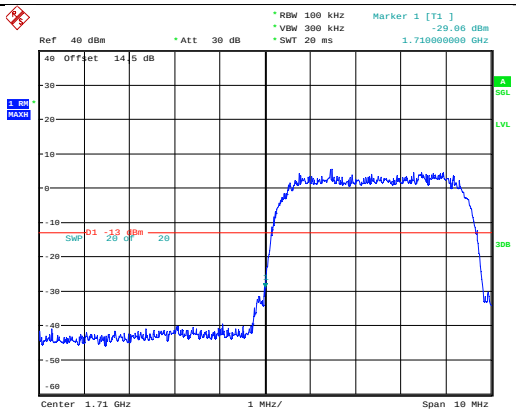
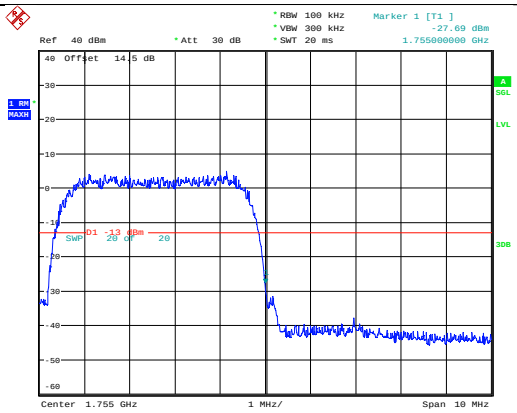
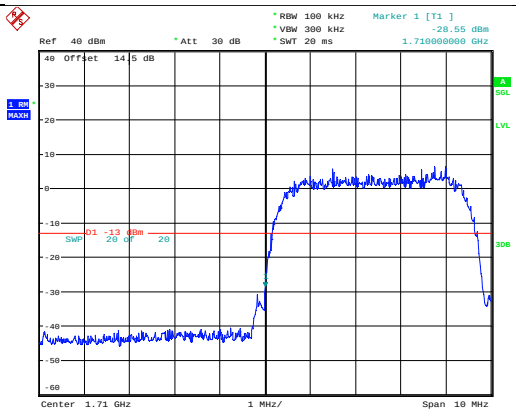
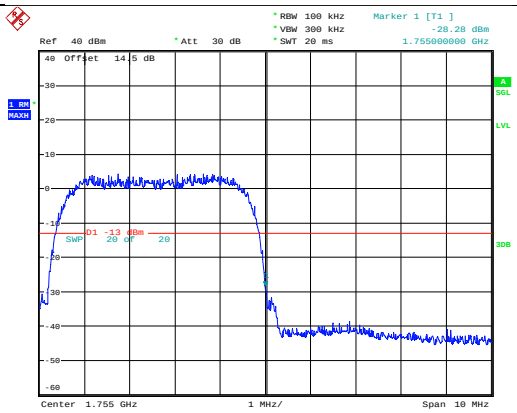
Test Plots (Note: The 14.5 dB is the Insertion loss of the RF cable, Coaxial tee connector and Attenuator, which was offset into the Spectrum Analyzer):

Occupied Bandwidth		
Channel	WCDMA R99	HSDPA
Lowest		
Middle		
Highest		

Occupied Bandwidth	
Channel	HSUPA
Lowest	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 11.NOV.2024 16:09:57
Middle	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 11.NOV.2024 16:12:02
Highest	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 11.NOV.2024 16:13:53

Spurious Emissions at Antenna Terminal	
Channel	WCDMA R99
Lowest	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 12.NOV.2024 09:04:03
Middle	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 12.NOV.2024 09:05:45
Highest	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 12.NOV.2024 09:06:58

Out of band emission, Band Edge

Mode	Lowest	Highest
R99	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 12.NOV.2024 09:53:31	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 12.NOV.2024 09:54:16
HSUPA	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 12.NOV.2024 09:58:59	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 12.NOV.2024 09:58:01
HSDPA	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 12.NOV.2024 09:56:43	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 12.NOV.2024 09:57:29

4.5 Antenna Port Test Data and Results for WCDMA Band 5

Sample Number:	2TEK-2	Test Date:	2024/11/11-2024/11/12
Test Site:	RF	Test Mode:	Transmitting
Tester:	Leo Li	Test Result:	**Pass**

Environmental Conditions:					
Temperature: (℃)	26.3-27.5	Relative Humidity: (%)	52-56	ATM Pressure: (kPa)	100.8-100.9

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Anritsu	Radio Communication Analyzer	MT8820C	6201010144	2024/10/10	2025/10/9
R&S	Spectrum Analyzer	FSU26	200256	2024/4/1	2025/3/31
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Unknown	Coaxial tee connector	Unknown	2204004	Each time	N/A
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2024/4/1	2025/3/31
UNI-T	Multimeter	UT39A+	C210582554	2024/1/23	2025/1/22
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Frequency:

Operation Modes	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
WCDMA	826.4	836.6	846.6

Test Data:

RF Output Power

Test Mode	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	**21.62**	21.47	21.58	17.27	38.45
HSDPA Subtest 1	21.11	20.97	20.98	16.76	38.45
HSDPA Subtest 2	21.12	20.89	20.97	16.77	38.45
HSDPA Subtest 3	21.08	20.88	20.89	16.73	38.45
HSDPA Subtest 4	21.01	20.92	21.02	16.67	38.45
HSUPA Subtest 1	21.01	21.12	21.22	16.87	38.45
HSUPA Subtest 2	21.04	21.14	21.21	16.86	38.45
HSUPA Subtest 3	21.07	21.09	21.18	16.83	38.45
HSUPA Subtest 4	20.99	21.15	21.17	16.82	38.45
HSUPA Subtest 5	20.95	21.08	21.22	16.87	38.45

Note:
ERP= Conducted Power(dBm) - L_C(dB) + G_T(dBd)
G_T(dBd)=G_T(dBi)-2.15
Use ANT1 to calculate maximum ERP.

Result:	**Pass**

Peak-to-average Ratio(PAR)

Test Mode	Peak-to-average Ratio(dB)			Limit (dB)
	Lowest Channel	Middle Channel	Highest Channel	
WCDMA R99	3.17	3.14	3.17	13
HSDPA	3.46	3.78	3.62	13
HSUPA	4.01	4.1	3.59	13

Result:	**Pass**

Occupied Bandwidth

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
WCDMA R99	4.151	4.167	4.183	4.737	4.744	4.712
HSDPA	4.183	4.183	4.183	4.728	4.76	4.76
HSUPA	4.183	4.183	4.167	4.753	4.744	4.728

Note: The test plots please refer to the Plots of Occupied Bandwidth

Spurious Emissions at Antenna Terminal

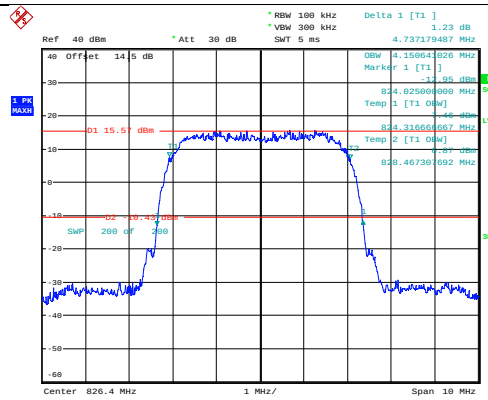
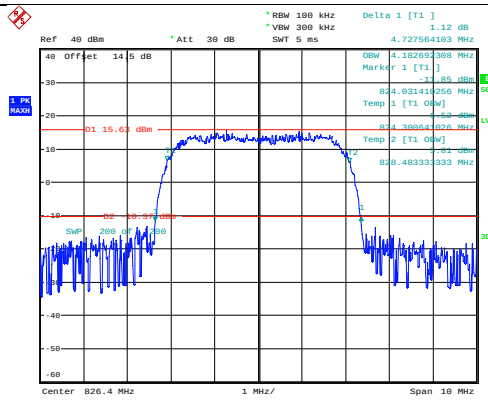
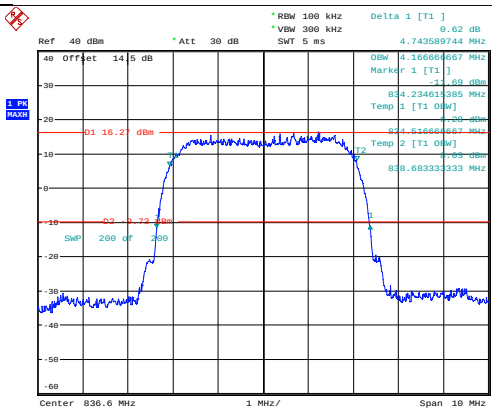
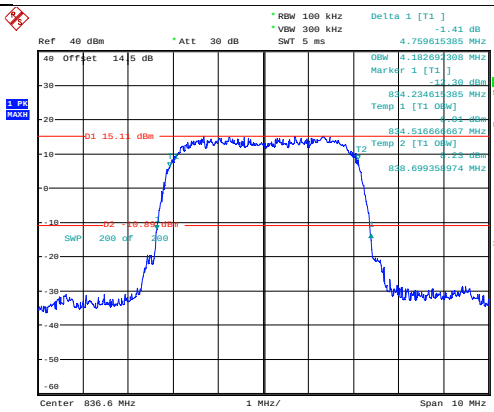
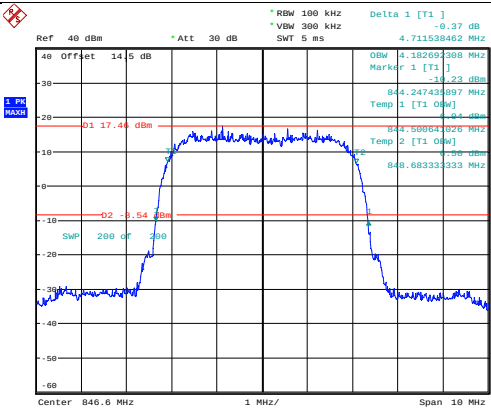
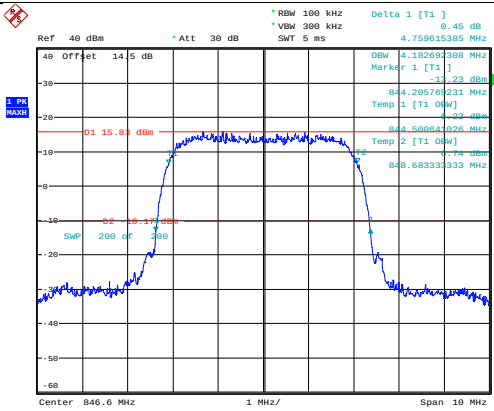
Result:	**Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.**

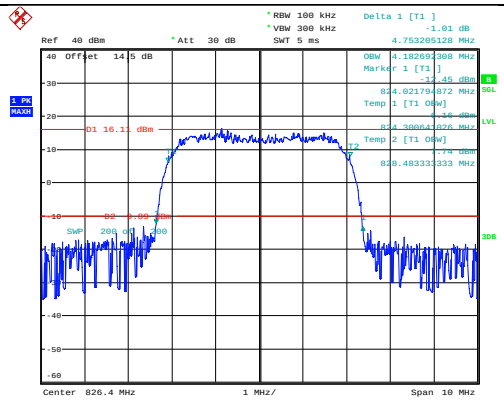
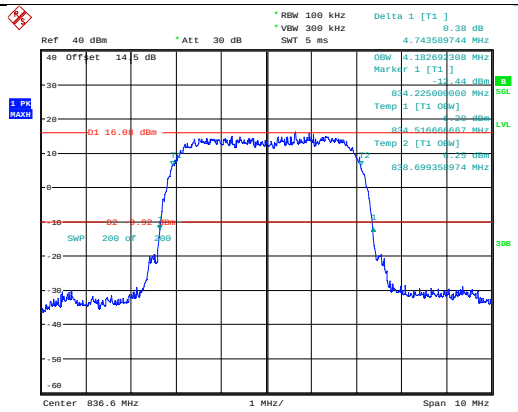
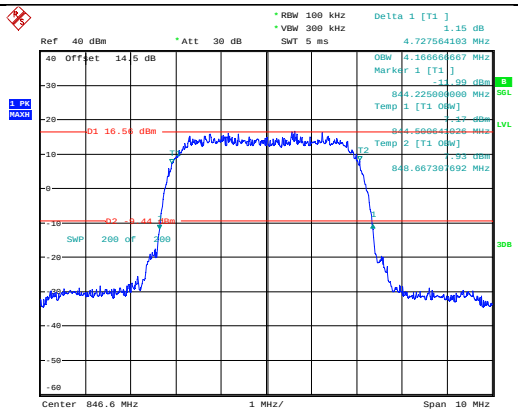
Out of band emission, Band Edge

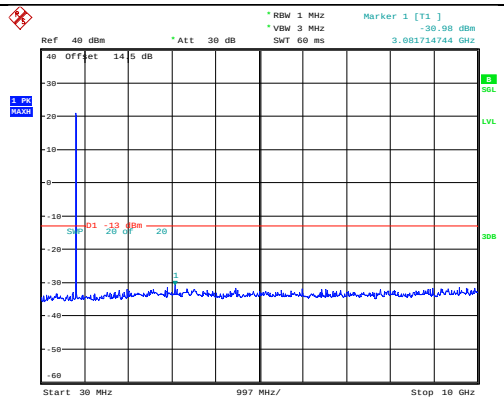
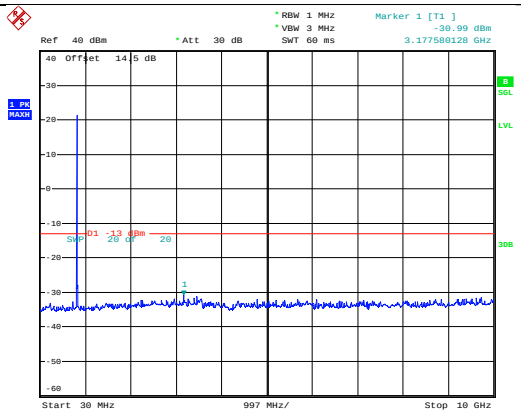
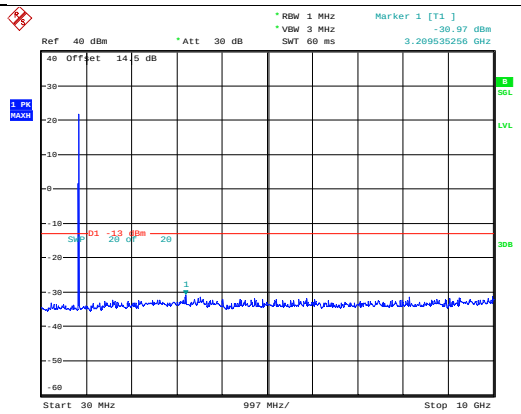
Result:	**Pass, Please refer to the test plots of Out of band emission, Band Edge.**

Frequency Stability					
Test Modulation:	WCDMA R99		Test Channel:	836.6	MHz
Test Item	Temperature (℃)	Voltage (V_{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.91	4	0.005	2.5
	-20	3.91	32	0.038	2.5
	-10	3.91	29	0.035	2.5
	0	3.91	20	0.024	2.5
	10	3.91	8	0.010	2.5
	20	3.91	16	0.019	2.5
	30	3.91	21	0.025	2.5
	40	3.91	15	0.018	2.5
	50	3.91	40	0.048	2.5
Frequency Stability vs. Voltage	20	3.45	4	0.005	2.5
	20	4.5	24	0.029	2.5
				Result:	**Pass**

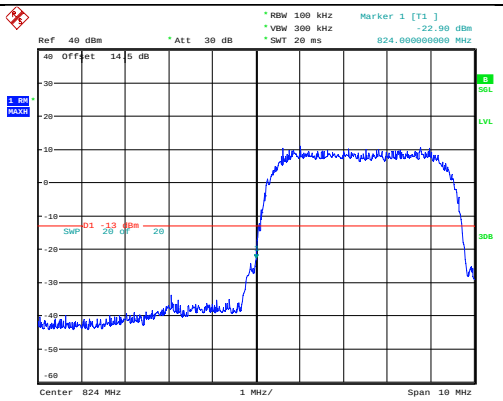
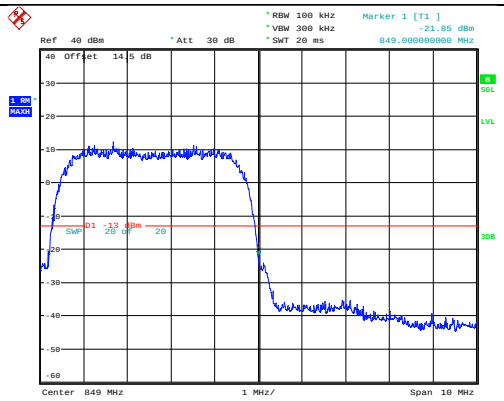
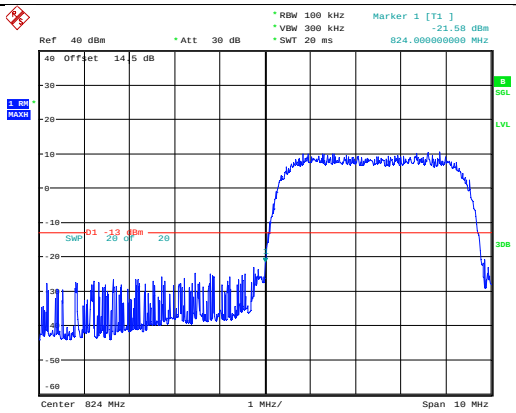
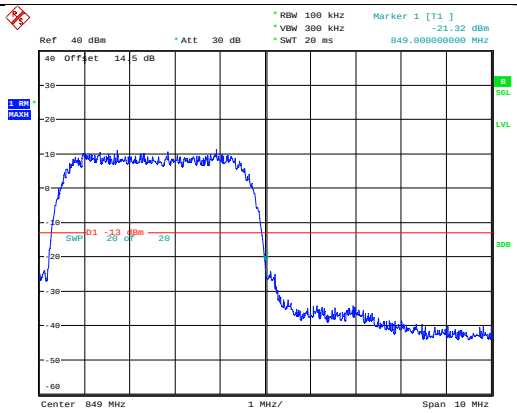
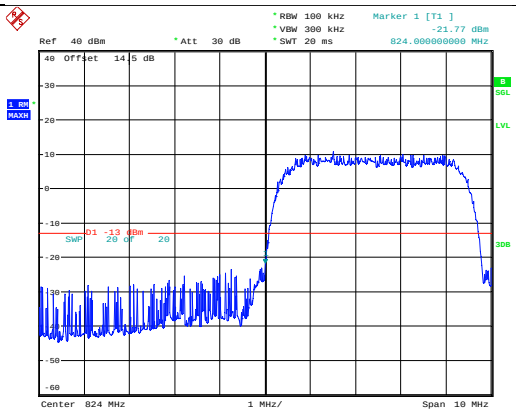
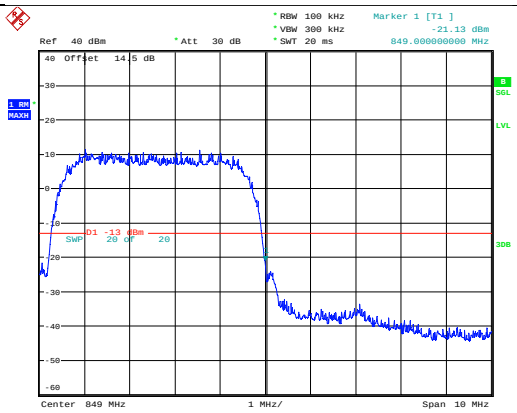
Test Plots (Note: The 14.5 dB is the Insertion loss of the RF cable, Coaxial tee connector and Attenuator, which was offset into the Spectrum Analyzer):

Occupied Bandwidth		
Channel	WCDMA R99	HSDPA
Lowest	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 11.NOV.2024 16:22:29	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 11.NOV.2024 16:32:53
Middle	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 11.NOV.2024 16:26:04	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 11.NOV.2024 16:34:59
Highest	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 11.NOV.2024 16:28:42	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 11.NOV.2024 16:39:51

Occupied Bandwidth	
Channel	HSUPA
Lowest	
Middle	
Highest	

Spurious Emissions at Antenna Terminal	
Channel	WCDMA R99
Lowest	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 12.NOV.2024 09:09:57
Middle	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 12.NOV.2024 09:11:10
Highest	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 12.NOV.2024 09:13:06

Out of band emission, Band Edge

Mode	Lowest	Highest
R99	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 11.NOV.2024 16:54:19	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 11.NOV.2024 16:55:58
HSUPA	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 11.NOV.2024 17:01:00	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 11.NOV.2024 17:01:54
HSDPA	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 11.NOV.2024 16:58:09	 ProjectNo.:2403Y36748E Tester:Leo Li Date: 11.NOV.2024 16:58:57

4.6 LTE RF Conducted data

Test Frequency for Each Mode:				
Operation Band	Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
B2	1.4MHz	1850.7	1880	1909.3
	3MHz	1851.5	1880	1908.5
	5MHz	1852.5	1880	1907.5
	10MHz	1855	1880	1905
	15MHz	1857.5	1880	1902.5
	20MHz	1860	1880	1900
B4	1.4MHz	1710.7	1732.5	1754.3
	3MHz	1711.5	1732.5	1753.5
	5MHz	1712.5	1732.5	1752.5
	10MHz	1715	1732.5	1750
	15MHz	1717.5	1732.5	1747.5
	20MHz	1720	1732.5	1745
B5	1.4MHz	824.7	836.5	848.3
	3MHz	825.5	836.5	847.5
	5MHz	826.5	836.5	846.5
	10MHz	829	836.5	844
B7	5MHz	2502.5	2535	2567.5
	10MHz	2505	2535	2565
	15MHz	2507.5	2535	2562.5
	20MHz	2510	2535	2560
B38	5MHz	2572.5	2595	2617.5
	10MHz	2575	2595	2615
	15MHz	2577.5	2595	2612.5
	20MHz	2580	2595	2610
B41	5MHz	2537.5	2595	2652.5
	10MHz	2540	2595	2650
	15MHz	2542.5	2595	2647.5
	20MHz	2545	2595	2645

Please refer to Annex "2403Y36748E-RF-00E Appendix A" for detail test data.

4.7 Radiated Spurious Emissions

1) Below 1GHz

Sample Number:	2TEK-1	Test Date:	2024/11/7
Test Site:	966-2	Test Mode:	Transmitting
Tester:	Roinin Fu	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	25.3	Relative Humidity: (%)	55	ATM Pressure: (kPa)	100.8

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2023/12/1	2026/11/30
R&S	EMI Test Receiver	ESR3	102724	2024/2/29	2025/2/28
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0100-03	2023/12/4	2024/12/3
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0370-01	2023/12/4	2024/12/3
XQY	Coaxial Cable	XQY-CMR400UF-NJ-NJ-7M	24056379	2024/6/11	2025/6/10
Sonoma	Amplifier	310N	186165	2023/12/4	2024/12/3
EMCO	Adjustable Dipole Antenna	3121C	9109-756	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2024/7/15	2025/7/14
Agilent	Signal Generator	E8247C	MY43321352	2023/11/17	2024/11/16

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

LB PRX:

Cellular Band (PART 22H)

GSM 850:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 824.2 MHz								
285.61	H	21.93	-57.86	0.00	0.32	-58.18	-13.00	45.18
680.54	V	20.35	-49.92	0.00	0.52	-50.44	-13.00	37.44
Frequency: 836.6 MHz								
285.62	H	21.78	-58.01	0.00	0.32	-58.33	-13.00	45.33
680.51	V	20.33	-49.94	0.00	0.52	-50.46	-13.00	37.46
Frequency: 848.8 MHz								
285.62	H	21.58	-58.21	0.00	0.32	-58.53	-13.00	45.53
680.49	V	20.34	-49.93	0.00	0.52	-50.45	-13.00	37.45

WCDMA Band 5:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 826.4 MHz								
285.62	H	21.95	-57.84	0.00	0.32	-58.16	-13.00	45.16
680.54	V	20.36	-49.91	0.00	0.52	-50.43	-13.00	37.43
Frequency: 836.6 MHz								
285.67	H	21.84	-57.95	0.00	0.32	-58.27	-13.00	45.27
680.61	V	20.89	-49.38	0.00	0.52	-49.90	-13.00	36.90
. 846.6 MHz								
285.37	H	21.82	-57.98	0.00	0.32	-58.30	-13.00	45.30
680.57	V	20.16	-50.11	0.00	0.52	-50.63	-13.00	37.63

PCS Band (PART 24E)

GSM 1900:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 1850.2 MHz								
285.97	H	51.74	-59.31	0.00	0.32	-59.63	-13.00	46.63
78.13	V	49.76	-57.70	-0.94	0.16	-58.80	-13.00	45.80
Frequency: 1880 MHz								
285.56	H	51.53	-59.53	0.00	0.32	-59.85	-13.00	46.85
78.15	V	49.28	-58.20	-0.92	0.16	-59.28	-13.00	46.28
Frequency: 1909.8 MHz								
285.97	H	51.69	-59.36	0.00	0.32	-59.68	-13.00	46.68
78.13	V	49.74	-57.72	-0.94	0.16	-58.82	-13.00	45.82

WCDMA Band 2:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 1852.4 MHz								
285.93	H	51.86	-59.19	0.00	0.32	-59.51	-13.00	46.51
78.13	V	49.72	-57.74	-0.94	0.16	-58.84	-13.00	45.84
Frequency: 1880 MHz								
285.46	H	51.39	-59.67	0.00	0.32	-59.99	-13.00	46.99
78.51	V	49.94	-57.75	-0.74	0.16	-58.65	-13.00	45.65
Frequency: 1907.6 MHz								
285.82	H	51.63	-59.42	0.00	0.32	-59.74	-13.00	46.74
78.32	V	49.55	-58.03	-0.84	0.16	-59.03	-13.00	46.03

AWS Band(Part 27)

WCDMA Band 4:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 1712.4 MHz								
285.94	H	51.78	-59.27	0.00	0.32	-59.59	-13.00	46.59
78.13	V	49.58	-57.88	-0.94	0.16	-58.98	-13.00	45.98
Frequency: 1732.6 MHz								
285.97	H	51.64	-59.41	0.00	0.32	-59.73	-13.00	46.73
78.14	V	49.52	-57.95	-0.93	0.16	-59.04	-13.00	46.04
Frequency: 1752.6 MHz								
285.98	H	51.28	-59.77	0.00	0.32	-60.09	-13.00	47.09
78.13	V	49.79	-57.67	-0.94	0.16	-58.77	-13.00	45.77

LTE Bands:(The Worst modulation and bandwidth(1RB) was below)

LTE Band 2:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 1850.7 MHz								
285.97	H	51.68	-59.37	0.00	0.32	-59.69	-13.00	46.69
78.13	V	49.58	-57.88	-0.94	0.16	-58.98	-13.00	45.98
1.4MHz QPSK, Frequency: 1880 MHz								
285.97	H	51.77	-59.28	0.00	0.32	-59.60	-13.00	46.60
78.11	V	49.58	-57.87	-0.95	0.16	-58.98	-13.00	45.98
1.4MHz QPSK, Frequency: 1909.3 MHz								
285.87	H	51.78	-59.27	0.00	0.32	-59.59	-13.00	46.59
78.14	V	49.72	-57.75	-0.93	0.16	-58.84	-13.00	45.84

LTE Band 4:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 1710.7 MHz								
285.49	H	50.89	-60.17	0.00	0.32	-60.49	-13.00	47.49
78.62	V	49.79	-57.97	-0.69	0.16	-58.82	-13.00	45.82
1.4MHz QPSK, Frequency: 1732.5 MHz								
285.97	H	51.76	-59.29	0.00	0.32	-59.61	-13.00	46.61
78.13	V	49.74	-57.72	-0.94	0.16	-58.82	-13.00	45.82
1.4MHz QPSK, Frequency: 1754.3 MHz								
285.64	H	51.29	-59.77	0.00	0.32	-60.09	-13.00	47.09
78.26	V	49.84	-57.70	-0.87	0.16	-58.73	-13.00	45.73

LTE Band 5:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 824.7 MHz								
285.61	H	21.78	-58.01	0.00	0.32	-58.33	-13.00	45.33
680.42	V	20.46	-49.81	0.00	0.52	-50.33	-13.00	37.33
1.4MHz QPSK, Frequency: 836.5 MHz								
285.32	H	21.74	-58.06	0.00	0.32	-58.38	-13.00	45.38
680.53	V	20.37	-49.90	0.00	0.52	-50.42	-13.00	37.42
1.4MHz QPSK, Frequency: 848.3 MHz								
285.85	H	21.74	-58.05	0.00	0.32	-58.37	-13.00	45.37
680.56	V	20.56	-49.71	0.00	0.52	-50.23	-13.00	37.23

LTE Band 7:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2502.5 MHz								
285.84	H	51.46	-59.59	0.00	0.32	-59.91	-25.00	34.91
78.29	V	49.69	-57.87	-0.85	0.16	-58.88	-25.00	33.88
5MHz QPSK, Frequency: 2535 MHz								
285.64	H	51.82	-59.24	0.00	0.32	-59.56	-25.00	34.56
78.32	V	49.22	-58.36	-0.84	0.16	-59.36	-25.00	34.36
5MHz QPSK, Frequency: 2567.5 MHz								
285.46	H	51.53	-59.53	0.00	0.32	-59.85	-25.00	34.85
78.25	V	49.21	-58.33	-0.88	0.16	-59.37	-25.00	34.37

LTE Band 38:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2572.5 MHz								
285.71	H	51.98	-59.08	0.00	0.32	-59.40	-25.00	34.40
78.26	V	49.33	-58.21	-0.87	0.16	-59.24	-25.00	34.24
5MHz QPSK, Frequency: 2595 MHz								
285.75	H	51.53	-59.53	0.00	0.32	-59.85	-25.00	34.85
78.11	V	49.25	-58.20	-0.95	0.16	-59.31	-25.00	34.31
5MHz QPSK, Frequency: 2617.5 MHz								
285.52	H	51.59	-59.47	0.00	0.32	-59.79	-25.00	34.79
78.43	V	49.22	-58.42	-0.78	0.16	-59.36	-25.00	34.36

LTE Band 41(2535- 2655 MHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2537.5 MHz								
285.54	H	51.49	-59.57	0.00	0.32	-59.89	-25.00	34.89
78.19	V	49.58	-57.92	-0.91	0.16	-58.99	-25.00	33.99
5MHz QPSK, Frequency: 2605 MHz								
285.36	H	51.36	-59.71	0.00	0.32	-60.03	-25.00	35.03
78.11	V	49.46	-57.99	-0.95	0.16	-59.10	-25.00	34.10
5MHz QPSK, Frequency: 2652.5 MHz								
285.53	H	51.54	-59.52	0.00	0.32	-59.84	-25.00	34.84
78.64	V	49.22	-58.55	-0.68	0.16	-59.39	-25.00	34.39

LB DRX

Cellular Band (PART 22H)

GSM 850:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 824.2 MHz								
285.81	H	21.92	-57.87	0.00	0.32	-58.19	-13.00	45.19
680.53	V	20.84	-49.43	0.00	0.52	-49.95	-13.00	36.95
Frequency: 836.6 MHz								
285.84	H	21.62	-58.17	0.00	0.32	-58.49	-13.00	45.49
680.58	V	20.43	-49.84	0.00	0.52	-50.36	-13.00	37.36
Frequency: 848.8 MHz								
285.76	H	21.65	-58.14	0.00	0.32	-58.46	-13.00	45.46
680.69	V	20.58	-49.69	0.00	0.52	-50.21	-13.00	37.21

WCDMA Band 5:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 826.4 MHz								
285.85	H	21.78	-58.01	0.00	0.32	-58.33	-13.00	45.33
680.46	V	20.53	-49.74	0.00	0.52	-50.26	-13.00	37.26
Frequency: 836.6 MHz								
285.87	H	21.71	-58.08	0.00	0.32	-58.40	-13.00	45.40
680.56	V	20.43	-49.84	0.00	0.52	-50.36	-13.00	37.36
Frequency: 846.6 MHz								
285.76	H	21.79	-58.00	0.00	0.32	-58.32	-13.00	45.32
680.25	V	20.52	-49.76	0.00	0.52	-50.28	-13.00	37.28

LTE Bands:

(The Worst modulation and bandwidth(1RB) was below)

LTE Band 5:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 824.7 MHz								
285.83	H	21.73	-58.06	0.00	0.32	-58.38	-13.00	45.38
680.47	V	20.72	-49.55	0.00	0.52	-50.07	-13.00	37.07
1.4MHz QPSK, Frequency: 836.5 MHz								
285.89	H	21.79	-58.00	0.00	0.32	-58.32	-13.00	45.32
680.55	V	20.54	-49.73	0.00	0.52	-50.25	-13.00	37.25
1.4MHz QPSK, Frequency: 848.3 MHz								
285.82	H	21.72	-58.07	0.00	0.32	-58.39	-13.00	45.39
680.56	V	20.43	-49.84	0.00	0.52	-50.36	-13.00	37.36

MHB PRX

PCS Band (PART 24E)

GSM 1900:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 1850.2 MHz								
285.59	H	51.64	-59.42	0.00	0.32	-59.74	-13.00	46.74
78.43	V	49.13	-58.51	-0.78	0.16	-59.45	-13.00	46.45
Frequency: 1880 MHz								
285.58	H	51.52	-59.54	0.00	0.32	-59.86	-13.00	46.86
78.14	V	49.46	-58.01	-0.93	0.16	-59.10	-13.00	46.10
Frequency: 1909.8 MHz								
285.13	H	51.58	-59.49	0.00	0.32	-59.81	-13.00	46.81
78.52	V	49.28	-58.42	-0.74	0.16	-59.32	-13.00	46.32

WCDMA Band 2:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 1852.4 MHz								
285.81	H	51.45	-59.60	0.00	0.32	-59.92	-13.00	46.92
78.16	V	49.61	-57.87	-0.92	0.16	-58.95	-13.00	45.95
Frequency: 1880 MHz								
285.56	H	51.32	-59.74	0.00	0.32	-60.06	-13.00	47.06
78.35	V	49.52	-58.07	-0.83	0.16	-59.06	-13.00	46.06
Frequency: 1907.6 MHz								
285.46	H	51.53	-59.53	0.00	0.32	-59.85	-13.00	46.85
78.15	V	49.28	-58.20	-0.92	0.16	-59.28	-13.00	46.28

AWS Band(Part 27)

WCDMA Band 4:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 1712.4 MHz								
285.32	H	51.52	-59.55	0.00	0.32	-59.87	-13.00	46.87
78.11	V	49.47	-57.98	-0.95	0.16	-59.09	-13.00	46.09
Frequency: 1732.6 MHz								
285.58	H	51.74	-59.32	0.00	0.32	-59.64	-13.00	46.64
78.76	V	49.26	-58.58	-0.62	0.16	-59.36	-13.00	46.36
Frequency: 1752.6 MHz								
285.46	H	51.91	-59.15	0.00	0.32	-59.47	-13.00	46.47
78.23	V	49.23	-58.29	-0.88	0.16	-59.33	-13.00	46.33

LTE Bands:(The Worst modulation and bandwidth(1RB) was below)

LTE Band 2:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 1850.7 MHz								
285.61	H	51.62	-59.44	0.00	0.32	-59.76	-13.00	46.76
78.65	V	49.58	-58.19	-0.67	0.16	-59.02	-13.00	46.02
1.4MHz QPSK, Frequency: 1880 MHz								
285.52	H	51.48	-59.58	0.00	0.32	-59.90	-13.00	46.90
78.13	V	49.36	-58.10	-0.94	0.16	-59.20	-13.00	46.20
1.4MHz QPSK, Frequency: 1909.3 MHz								
285.56	H	51.65	-59.41	0.00	0.32	-59.73	-13.00	46.73
78.15	V	49.52	-57.96	-0.92	0.16	-59.04	-13.00	46.04

LTE Band 4:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 1710.7 MHz								
285.56	H	51.58	-59.48	0.00	0.32	-59.80	-13.00	46.80
78.14	V	49.24	-58.23	-0.93	0.16	-59.32	-13.00	46.32
1.4MHz QPSK, Frequency: 1732.5 MHz								
285.59	H	51.53	-59.53	0.00	0.32	-59.85	-13.00	46.85
78.15	V	49.22	-58.26	-0.92	0.16	-59.34	-13.00	46.34
1.4MHz QPSK, Frequency: 1754.3 MHz								
285.57	H	51.63	-59.43	0.00	0.32	-59.75	-13.00	46.75
78.13	V	49.43	-58.03	-0.94	0.16	-59.13	-13.00	46.13

LTE Band 7:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2502.5 MHz								
285.55	H	51.55	-59.51	0.00	0.32	-59.83	-25.00	34.83
78.15	V	49.26	-58.22	-0.92	0.16	-59.30	-25.00	34.30
5MHz QPSK, Frequency: 2535 MHz								
285.52	H	51.56	-59.50	0.00	0.32	-59.82	-25.00	34.82
78.15	V	49.29	-58.19	-0.92	0.16	-59.27	-25.00	34.27
5MHz QPSK, Frequency: 2567.5 MHz								
285.51	H	51.57	-59.49	0.00	0.32	-59.81	-25.00	34.81
78.23	V	49.22	-58.30	-0.88	0.16	-59.34	-25.00	34.34

LTE Band 38:

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2572.5 MHz								
285.59	H	51.73	-59.33	0.00	0.32	-59.65	-25.00	34.65
78.16	V	49.23	-58.25	-0.92	0.16	-59.33	-25.00	34.33
5MHz QPSK, Frequency: 2595 MHz								
285.56	H	51.52	-59.54	0.00	0.32	-59.86	-25.00	34.86
78.15	V	49.46	-58.02	-0.92	0.16	-59.10	-25.00	34.10
5MHz QPSK, Frequency: 2617.5 MHz								
285.51	H	51.58	-59.48	0.00	0.32	-59.80	-25.00	34.80
78.13	V	49.26	-58.20	-0.94	0.16	-59.30	-25.00	34.30

LTE Band 41(2535- 2655 MHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2557.5 MHz								
285.55	H	51.86	-59.20	0.00	0.32	-59.52	-25.00	34.52
78.15	V	49.23	-58.25	-0.92	0.16	-59.33	-25.00	34.33
5MHz QPSK, Frequency: 2605 MHz								
285.57	H	51.57	-59.49	0.00	0.32	-59.81	-25.00	34.81
78.15	V	49.24	-58.24	-0.92	0.16	-59.32	-25.00	34.32
5MHz QPSK, Frequency: 2652.5 MHz								
285.55	H	51.64	-59.42	0.00	0.32	-59.74	-25.00	34.74
78.18	V	49.29	-58.20	-0.91	0.16	-59.27	-25.00	34.27

2) Above 1GHz

Sample Number	2TEK-1	Test Date:	2024/11/6
Test Site:	966-1	Test Mode:	Transmitting
Tester:	Mack Huang	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	26.4	Relative Humidity: (%)	67	ATM Pressure: (kPa)	101.5

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	9912-5985	2023/12/6	2026/12/5
R&S	Spectrum Analyzer	FSV40	101591	2024/4/1	2025/3/31
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2024/1/15	2025/1/14
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2024/1/15	2025/1/14
BACL	Preamplifier	1313-A20M18G	4032311	2024/4/1	2025/3/31
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2022/10/17	2025/10/18
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2024/7/15	2025/7/14
Agilent	Signal Generator	E8247C	MY43321352	2023/11/17	2024/11/16
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2024/2/4	2027/2/3
PASTERNACK	Horn Antenna	PE9852/2F-20	112001	2024/2/4	2027/2/3
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2024/1/15	2025/1/14
PASTERNACK	Horn Antenna	PE9850/2F-20	072001	2024/2/4	2027/2/3
PASTERNACK	Horn Antenna	PE9850/2F-20	072002	2024/2/4	2027/2/3
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2024/1/15	2025/1/14
JD	Multiplex Switch Test Control Set	DT7220SCU	DQ77925	2024/8/5	2025/8/4
JD	Filter Switch Unit	DT7220FSU	DQ77928	2024/8/5	2025/8/4

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

LB PRX:

Cellular Band (PART 22H)

GSM850(1-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 824.2 MHz								
1648.400	H	34.75	-69.70	8.68	0.80	-61.82	-13.00	48.82
1648.400	V	34.02	-70.51	8.68	0.80	-62.63	-13.00	49.63
2472.600	H	39.74	-61.29	9.38	1.00	-52.91	-13.00	39.91
2472.600	V	39.16	-61.82	9.38	1.00	-53.44	-13.00	40.44
3296.800	H	34.33	-63.05	10.32	1.15	-53.88	-13.00	40.88
3296.800	V	34.74	-62.40	10.32	1.15	-53.23	-13.00	40.23
Frequency: 836.6 MHz								
1673.200	H	34.30	-70.12	8.71	0.85	-62.26	-13.00	49.26
1673.200	V	34.11	-70.42	8.71	0.85	-62.56	-13.00	49.56
2509.800	H	38.38	-62.45	9.42	1.01	-54.04	-13.00	41.04
2509.800	V	37.40	-63.44	9.42	1.01	-55.03	-13.00	42.03
3346.400	H	33.74	-64.32	10.34	1.16	-55.14	-13.00	42.14
3346.400	V	33.85	-64.07	10.34	1.16	-54.89	-13.00	41.89
Frequency: 848.8 MHz								
1697.600	H	34.74	-69.65	8.74	0.90	-61.81	-13.00	48.81
1697.600	V	33.95	-70.57	8.74	0.90	-62.73	-13.00	49.73
2546.400	H	37.08	-63.53	9.47	1.01	-55.07	-13.00	42.07
2546.400	V	34.57	-65.99	9.47	1.01	-57.53	-13.00	44.53
3395.200	H	34.11	-64.68	10.36	1.19	-55.51	-13.00	42.51
3395.200	V	34.38	-64.38	10.36	1.19	-55.21	-13.00	42.21

WCDMA Band 5(1-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 826.4 MHz								
1652.800	H	34.10	-70.35	8.68	0.81	-62.48	-13.00	49.48
1652.800	V	33.89	-70.64	8.68	0.81	-62.77	-13.00	49.77
2479.200	H	34.78	-66.22	9.39	1.01	-57.84	-13.00	44.84
2479.200	V	35.20	-65.77	9.39	1.01	-57.39	-13.00	44.39
3305.600	H	34.53	-62.92	10.32	1.15	-53.75	-13.00	40.75
3305.600	V	34.11	-63.12	10.32	1.15	-53.95	-13.00	40.95
Frequency: 836.6 MHz								
1673.200	H	34.52	-69.90	8.71	0.85	-62.04	-13.00	49.04
1673.200	V	34.33	-70.20	8.71	0.85	-62.34	-13.00	49.34
2509.800	H	35.01	-65.82	9.42	1.01	-57.41	-13.00	44.41
2509.800	V	34.74	-66.10	9.42	1.01	-57.69	-13.00	44.69
3346.400	H	35.21	-62.85	10.34	1.16	-53.67	-13.00	40.67
3346.400	V	35.17	-62.75	10.34	1.16	-53.57	-13.00	40.57
Frequency: 846.6 MHz								
1693.200	H	34.78	-69.62	8.73	0.89	-61.78	-13.00	48.78
1693.200	V	35.06	-69.46	8.73	0.89	-61.62	-13.00	48.62
2539.800	H	34.22	-66.43	9.46	1.01	-57.98	-13.00	44.98
2539.800	V	34.27	-66.34	9.46	1.01	-57.89	-13.00	44.89
3386.400	H	33.87	-64.79	10.35	1.18	-55.62	-13.00	42.62
3386.400	V	34.31	-64.30	10.35	1.18	-55.13	-13.00	42.13

PCS Band (PART 24E)

GSM1900(1-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 1850.2 MHz								
3700.400	H	35.80	-63.18	10.60	1.25	-53.83	-13.00	40.83
3700.400	V	34.12	-64.84	10.60	1.25	-55.49	-13.00	42.49
5550.600	H	34.22	-61.95	11.44	1.49	-52.00	-13.00	39.00
5550.600	V	33.89	-62.11	11.44	1.49	-52.16	-13.00	39.16
Frequency: 1880 MHz								
3760.000	H	34.03	-63.67	10.66	1.24	-54.25	-13.00	41.25
3760.000	V	33.56	-64.02	10.66	1.24	-54.60	-13.00	41.60
5640.000	H	34.17	-62.63	11.33	1.54	-52.84	-13.00	39.84
5640.000	V	34.20	-62.48	11.33	1.54	-52.69	-13.00	39.69
Frequency: 1909.8 MHz								
3819.600	H	34.28	-62.71	10.72	1.29	-53.28	-13.00	40.28
3819.600	V	34.69	-62.15	10.72	1.29	-52.72	-13.00	39.72
5729.400	H	33.66	-63.48	11.22	1.59	-53.85	-13.00	40.85
5729.400	V	34.78	-62.23	11.22	1.59	-52.60	-13.00	39.60

WCDMA Band 2(1-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 1852.4 MHz								
3704.800	H	33.65	-65.24	10.60	1.25	-55.89	-13.00	42.89
3704.800	V	34.12	-64.74	10.60	1.25	-55.39	-13.00	42.39
5557.200	H	34.02	-62.20	11.43	1.49	-52.26	-13.00	39.26
5557.200	V	33.87	-62.20	11.43	1.49	-52.26	-13.00	39.26
Frequency: 1880 MHz								
3760.000	H	34.30	-63.40	10.66	1.24	-53.98	-13.00	40.98
3760.000	V	34.17	-63.41	10.66	1.24	-53.99	-13.00	40.99
5640.000	H	33.88	-62.92	11.33	1.54	-53.13	-13.00	40.13
5640.000	V	34.27	-62.41	11.33	1.54	-52.62	-13.00	39.62
Frequency: 1907.6 MHz								
3815.200	H	34.54	-62.41	10.72	1.29	-52.98	-13.00	39.98
3815.200	V	34.10	-62.70	10.72	1.29	-53.27	-13.00	40.27
5722.800	H	33.69	-63.44	11.23	1.58	-53.79	-13.00	40.79
5722.800	V	34.23	-62.77	11.23	1.58	-53.12	-13.00	40.12

AWS MHz Band (PART 27)

WCDMA Band 4(1-18GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 1712.4 MHz								
3424.800	H	35.02	-63.90	10.37	1.17	-54.70	-13.00	41.70
3424.800	V	34.36	-64.53	10.37	1.17	-55.33	-13.00	42.33
5137.200	H	34.17	-62.03	11.28	1.46	-52.21	-13.00	39.21
5137.200	V	33.96	-62.13	11.28	1.46	-52.31	-13.00	39.31
Frequency: 1732.6 MHz								
3465.200	H	34.57	-64.45	10.39	1.15	-55.21	-13.00	42.21
3465.200	V	34.20	-64.77	10.39	1.15	-55.53	-13.00	42.53
5197.800	H	33.66	-63.29	11.32	1.44	-53.41	-13.00	40.41
5197.800	V	34.17	-62.63	11.32	1.44	-52.75	-13.00	39.75
Frequency: 1752.6 MHz								
3505.200	H	34.75	-64.31	10.41	1.18	-55.08	-13.00	42.08
3505.200	V	34.21	-64.79	10.41	1.18	-55.56	-13.00	42.56
5257.800	H	33.63	-63.17	11.35	1.47	-53.29	-13.00	40.29
5257.800	V	34.59	-61.99	11.35	1.47	-52.11	-13.00	39.11

LTE Bands:(The Worst modulation and bandwidth(1RB) was below)

LTE Band 2(1-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 1850.7 MHz								
3701.400	H	37.41	-61.55	10.60	1.25	-52.20	-13.00	39.20
3701.400	V	35.22	-63.72	10.60	1.25	-54.37	-13.00	41.37
5552.100	H	34.39	-61.79	11.44	1.49	-51.84	-13.00	38.84
5552.100	V	35.07	-60.95	11.44	1.49	-51.00	-13.00	38.00
1.4MHz QPSK, Frequency: 1880 MHz								
3760.000	H	38.06	-59.64	10.66	1.24	-50.22	-13.00	37.22
3760.000	V	34.79	-62.79	10.66	1.24	-53.37	-13.00	40.37
5640.000	H	35.45	-61.35	11.33	1.54	-51.56	-13.00	38.56
5640.000	V	35.22	-61.46	11.33	1.54	-51.67	-13.00	38.67
1.4MHz QPSK, Frequency: 1909.3 MHz								
3818.600	H	36.35	-60.63	10.72	1.29	-51.20	-13.00	38.20
3818.600	V	35.22	-61.61	10.72	1.29	-52.18	-13.00	39.18
5727.900	H	34.74	-62.39	11.23	1.59	-52.75	-13.00	39.75
5727.900	V	34.89	-62.11	11.23	1.59	-52.47	-13.00	39.47

LTE Band 4(1-18GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 1710.7 MHz								
3421.400	H	34.85	-64.06	10.37	1.17	-54.86	-13.00	41.86
3421.400	V	35.11	-63.77	10.37	1.17	-54.57	-13.00	41.57
5132.100	H	35.24	-60.90	11.28	1.47	-51.09	-13.00	38.09
5132.100	V	34.57	-61.46	11.28	1.47	-51.65	-13.00	38.65
1.4MHz QPSK, Frequency: 1732.5 MHz								
3465.000	H	35.13	-63.89	10.39	1.15	-54.65	-13.00	41.65
3465.000	V	35.37	-63.60	10.39	1.15	-54.36	-13.00	41.36
5197.500	H	34.65	-62.30	11.32	1.44	-52.42	-13.00	39.42
5197.500	V	34.75	-62.05	11.32	1.44	-52.17	-13.00	39.17
1.4MHz QPSK, Frequency: 1754.3 MHz								
3508.600	H	35.34	-63.70	10.41	1.19	-54.48	-13.00	41.48
3508.600	V	34.65	-64.32	10.41	1.19	-55.10	-13.00	42.10
5262.900	H	35.55	-61.24	11.36	1.47	-51.35	-13.00	38.35
5262.900	V	35.28	-61.28	11.36	1.47	-51.39	-13.00	38.39

LTE Band 5(1-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 824.7 MHz								
1649.400	H	35.44	-69.01	8.68	0.80	-61.13	-13.00	48.13
1649.400	V	35.69	-68.84	8.68	0.80	-60.96	-13.00	47.96
2474.100	H	34.87	-66.15	9.38	1.00	-57.77	-13.00	44.77
2474.100	V	35.80	-65.18	9.38	1.00	-56.80	-13.00	43.80
3298.800	H	34.11	-63.26	10.32	1.15	-54.09	-13.00	41.09
3298.800	V	34.27	-62.86	10.32	1.15	-53.69	-13.00	40.69
1.4MHz QPSK, Frequency: 836.5 MHz								
1673.000	H	35.02	-69.40	8.71	0.85	-61.54	-13.00	48.54
1673.000	V	34.11	-70.42	8.71	0.85	-62.56	-13.00	49.56
2509.500	H	34.36	-66.47	9.42	1.01	-58.06	-13.00	45.06
2509.500	V	35.28	-65.57	9.42	1.01	-57.16	-13.00	44.16
3346.000	H	34.78	-63.28	10.34	1.16	-54.10	-13.00	41.10
3346.000	V	34.92	-63.00	10.34	1.16	-53.82	-13.00	40.82
1.4MHz QPSK, Frequency: 848.3 MHz								
1696.600	H	39.29	-65.10	8.74	0.89	-57.25	-13.00	44.25
1696.600	V	35.85	-68.67	8.74	0.89	-60.82	-13.00	47.82
2544.900	H	38.25	-62.37	9.47	1.01	-53.91	-13.00	40.91
2544.900	V	35.01	-65.56	9.47	1.01	-57.10	-13.00	44.10
3393.200	H	34.14	-64.62	10.36	1.19	-55.45	-13.00	42.45
3393.200	V	34.77	-63.95	10.36	1.19	-54.78	-13.00	41.78

LTE Band 7(1-26GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2502.5 MHz								
5005.000	H	34.47	-61.00	11.20	1.47	-51.27	-25.00	26.27
5005.000	V	35.11	-60.23	11.20	1.47	-50.50	-25.00	25.50
7507.500	H	35.44	-58.63	10.90	1.95	-49.68	-25.00	24.68
7507.500	V	35.20	-59.37	10.90	1.95	-50.42	-25.00	25.42
5MHz QPSK, Frequency: 2535 MHz								
5070.000	H	34.74	-60.92	11.24	1.47	-51.15	-25.00	26.15
5070.000	V	35.21	-60.34	11.24	1.47	-50.57	-25.00	25.57
7605.000	H	35.02	-58.46	10.88	2.01	-49.59	-25.00	24.59
7605.000	V	34.83	-59.36	10.88	2.01	-50.49	-25.00	25.49
5MHz QPSK, Frequency: 2567.5 MHz								
5135.000	H	34.98	-61.19	11.28	1.47	-51.38	-25.00	26.38
5135.000	V	35.12	-60.94	11.28	1.47	-51.13	-25.00	26.13
7702.500	H	34.78	-58.44	10.86	1.97	-49.55	-25.00	24.55
7702.500	V	34.38	-59.50	10.86	1.97	-50.61	-25.00	25.61

LTE Band 38(1-26.5GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2572.5 MHz								
5145.000	H	34.44	-61.86	11.29	1.44	-52.01	-25.00	27.01
5145.000	V	35.02	-61.16	11.29	1.44	-51.31	-25.00	26.31
7717.500	H	34.69	-58.56	10.86	1.99	-49.69	-25.00	24.69
7717.500	V	34.88	-58.99	10.86	1.99	-50.12	-25.00	25.12
5MHz QPSK, Frequency: 2595 MHz								
5190.000	H	35.23	-61.63	11.31	1.44	-51.76	-25.00	26.76
5190.000	V	35.14	-61.57	11.31	1.44	-51.70	-25.00	26.70
7785.000	H	34.62	-58.77	10.84	1.99	-49.92	-25.00	24.92
7785.000	V	35.47	-58.35	10.84	1.99	-49.50	-25.00	24.50
5MHz QPSK, Frequency: 2617.5 MHz								
5235.000	H	35.55	-61.32	11.34	1.46	-51.44	-25.00	26.44
5235.000	V	35.45	-61.23	11.34	1.46	-51.35	-25.00	26.35
7852.500	H	34.87	-58.61	10.83	2.03	-49.81	-25.00	24.81
7852.500	V	34.33	-59.54	10.83	2.03	-50.74	-25.00	25.74

LTE Band 41(1-27GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2537.5 MHz								
5075.000	H	37.45	-58.22	11.25	1.48	-48.45	-25.00	23.45
5075.000	V	35.55	-60.02	11.25	1.48	-50.25	-25.00	25.25
7612.500	H	36.01	-57.45	10.88	2.02	-48.59	-25.00	23.59
7612.500	V	37.71	-56.46	10.88	2.02	-47.60	-25.00	22.60
5MHz QPSK, Frequency: 2595 MHz								
5190.000	H	34.21	-62.65	11.31	1.44	-52.78	-25.00	27.78
5190.000	V	35.58	-61.13	11.31	1.44	-51.26	-25.00	26.26
7785.000	H	36.17	-57.22	10.84	1.99	-48.37	-25.00	23.37
7785.000	V	35.44	-58.38	10.84	1.99	-49.53	-25.00	24.53
5MHz QPSK, Frequency: 2652.5 MHz								
5305.000	H	37.61	-59.05	11.38	1.46	-49.13	-25.00	24.13
5305.000	V	35.25	-61.16	11.38	1.46	-51.24	-25.00	26.24
7957.500	H	36.33	-56.92	10.81	2.09	-48.20	-25.00	23.20
7957.500	V	36.10	-57.60	10.81	2.09	-48.88	-25.00	23.88

LB DRX:

Cellular Band (PART 22H)

GSM850(1-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 824.2 MHz								
1648.400	H	34.10	-70.35	8.68	0.80	-62.47	-13.00	49.47
1648.400	V	34.03	-70.50	8.68	0.80	-62.62	-13.00	49.62
2472.600	H	38.25	-62.78	9.38	1.00	-54.40	-13.00	41.40
2472.600	V	36.77	-64.21	9.38	1.00	-55.83	-13.00	42.83
3296.800	H	34.54	-62.84	10.32	1.15	-53.67	-13.00	40.67
3296.800	V	35.16	-61.98	10.32	1.15	-52.81	-13.00	39.81
Frequency: 836.6 MHz								
1673.200	H	34.53	-69.89	8.71	0.85	-62.03	-13.00	49.03
1673.200	V	35.02	-69.51	8.71	0.85	-61.65	-13.00	48.65
2509.800	H	36.44	-64.39	9.42	1.01	-55.98	-13.00	42.98
2509.800	V	35.85	-64.99	9.42	1.01	-56.58	-13.00	43.58
3346.400	H	34.27	-63.79	10.34	1.16	-54.61	-13.00	41.61
3346.400	V	34.19	-63.73	10.34	1.16	-54.55	-13.00	41.55
Frequency: 848.8 MHz								
1697.600	H	34.88	-69.51	8.74	0.90	-61.67	-13.00	48.67
1697.600	V	35.10	-69.42	8.74	0.90	-61.58	-13.00	48.58
2546.400	H	37.31	-63.30	9.47	1.01	-54.84	-13.00	41.84
2546.400	V	36.56	-64.00	9.47	1.01	-55.54	-13.00	42.54
3395.200	H	34.28	-64.51	10.36	1.19	-55.34	-13.00	42.34
3395.200	V	34.11	-64.65	10.36	1.19	-55.48	-13.00	42.48

WCDMA Band 5(1-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 826.4 MHz								
1652.800	H	35.02	-69.43	8.68	0.81	-61.56	-13.00	48.56
1652.800	V	34.56	-69.97	8.68	0.81	-62.10	-13.00	49.10
2479.200	H	33.39	-67.61	9.39	1.01	-59.23	-13.00	46.23
2479.200	V	34.33	-66.64	9.39	1.01	-58.26	-13.00	45.26
3305.600	H	35.02	-62.43	10.32	1.15	-53.26	-13.00	40.26
3305.600	V	33.88	-63.35	10.32	1.15	-54.18	-13.00	41.18
Frequency: 836.6 MHz								
1673.200	H	34.01	-70.41	8.71	0.85	-62.55	-13.00	49.55
1673.200	V	33.69	-70.84	8.71	0.85	-62.98	-13.00	49.98
2509.800	H	34.55	-66.28	9.42	1.01	-57.87	-13.00	44.87
2509.800	V	34.16	-66.68	9.42	1.01	-58.27	-13.00	45.27
3346.400	H	33.85	-64.21	10.34	1.16	-55.03	-13.00	42.03
3346.400	V	34.74	-63.18	10.34	1.16	-54.00	-13.00	41.00
Frequency: 846.6 MHz								
1693.200	H	33.68	-70.72	8.73	0.89	-62.88	-13.00	49.88
1693.200	V	34.10	-70.42	8.73	0.89	-62.58	-13.00	49.58
2539.800	H	33.88	-66.77	9.46	1.01	-58.32	-13.00	45.32
2539.800	V	34.63	-65.98	9.46	1.01	-57.53	-13.00	44.53
3386.400	H	34.28	-64.38	10.35	1.18	-55.21	-13.00	42.21
3386.400	V	33.70	-64.91	10.35	1.18	-55.74	-13.00	42.74

LTE Bands:

(The Worst modulation and bandwidth(1RB) was below)

LTE Band 5(1-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 824.7 MHz								
1649.400	H	34.27	-70.18	8.68	0.80	-62.30	-13.00	49.30
1649.400	V	35.02	-69.51	8.68	0.80	-61.63	-13.00	48.63
2474.100	H	39.76	-61.26	9.38	1.00	-52.88	-13.00	39.88
2474.100	V	41.73	-59.25	9.38	1.00	-50.87	-13.00	37.87
3298.800	H	34.33	-63.04	10.32	1.15	-53.87	-13.00	40.87
3298.800	V	34.81	-62.32	10.32	1.15	-53.15	-13.00	40.15
1.4MHz QPSK, Frequency: 836.5 MHz								
1673.000	H	34.55	-69.87	8.71	0.85	-62.01	-13.00	49.01
1673.000	V	35.44	-69.09	8.71	0.85	-61.23	-13.00	48.23
2509.500	H	36.75	-64.08	9.42	1.01	-55.67	-13.00	42.67
2509.500	V	40.51	-60.34	9.42	1.01	-51.93	-13.00	38.93
3346.000	H	34.39	-63.67	10.34	1.16	-54.49	-13.00	41.49
3346.000	V	34.13	-63.79	10.34	1.16	-54.61	-13.00	41.61
1.4MHz QPSK, Frequency: 848.3 MHz								
1696.600	H	34.77	-69.62	8.74	0.89	-61.77	-13.00	48.77
1696.600	V	35.01	-69.51	8.74	0.89	-61.66	-13.00	48.66
2544.900	H	37.95	-62.67	9.47	1.01	-54.21	-13.00	41.21
2544.900	V	38.68	-61.89	9.47	1.01	-53.43	-13.00	40.43
3393.200	H	34.69	-64.07	10.36	1.19	-54.90	-13.00	41.90
3393.200	V	34.20	-64.52	10.36	1.19	-55.35	-13.00	42.35

MHB PRX:

PCS Band (PART 24E)

GSM1900(1-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 1850.2 MHz								
3700.400	H	33.89	-65.09	10.60	1.25	-55.74	-13.00	42.74
3700.400	V	34.74	-64.22	10.60	1.25	-54.87	-13.00	41.87
5550.600	H	34.12	-62.05	11.44	1.49	-52.10	-13.00	39.10
5550.600	V	35.58	-60.42	11.44	1.49	-50.47	-13.00	37.47
Frequency: 1880 MHz								
3760.000	H	34.12	-63.58	10.66	1.24	-54.16	-13.00	41.16
3760.000	V	35.07	-62.51	10.66	1.24	-53.09	-13.00	40.09
5640.000	H	34.36	-62.44	11.33	1.54	-52.65	-13.00	39.65
5640.000	V	34.52	-62.16	11.33	1.54	-52.37	-13.00	39.37
Frequency: 1909.8 MHz								
3819.600	H	34.61	-62.38	10.72	1.29	-52.95	-13.00	39.95
3819.600	V	34.72	-62.12	10.72	1.29	-52.69	-13.00	39.69
5729.400	H	33.88	-63.26	11.22	1.59	-53.63	-13.00	40.63
5729.400	V	34.99	-62.02	11.22	1.59	-52.39	-13.00	39.39

WCDMA Band 2(1-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 1852.4 MHz								
3704.800	H	33.58	-65.31	10.60	1.25	-55.96	-13.00	42.96
3704.800	V	34.37	-64.49	10.60	1.25	-55.14	-13.00	42.14
5557.200	H	34.11	-62.11	11.43	1.49	-52.17	-13.00	39.17
5557.200	V	35.06	-61.01	11.43	1.49	-51.07	-13.00	38.07
Frequency: 1880 MHz								
3760.000	H	34.16	-63.54	10.66	1.24	-54.12	-13.00	41.12
3760.000	V	33.96	-63.62	10.66	1.24	-54.20	-13.00	41.20
5640.000	H	33.87	-62.93	11.33	1.54	-53.14	-13.00	40.14
5640.000	V	34.25	-62.43	11.33	1.54	-52.64	-13.00	39.64
Frequency: 1907.6 MHz								
3815.200	H	34.31	-62.64	10.72	1.29	-53.21	-13.00	40.21
3815.200	V	34.12	-62.68	10.72	1.29	-53.25	-13.00	40.25
5722.800	H	33.68	-63.45	11.23	1.58	-53.80	-13.00	40.80
5722.800	V	34.01	-62.99	11.23	1.58	-53.34	-13.00	40.34

AWS MHz Band (PART 27)

WCDMA Band 4(1-18GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
Frequency: 1712.4 MHz								
3424.800	H	34.05	-64.87	10.37	1.17	-55.67	-13.00	42.67
3424.800	V	33.83	-65.06	10.37	1.17	-55.86	-13.00	42.86
5137.200	H	34.27	-61.93	11.28	1.46	-52.11	-13.00	39.11
5137.200	V	34.91	-61.18	11.28	1.46	-51.36	-13.00	38.36
Frequency: 1732.6 MHz								
3465.200	H	34.52	-64.50	10.39	1.15	-55.26	-13.00	42.26
3465.200	V	33.96	-65.01	10.39	1.15	-55.77	-13.00	42.77
5197.800	H	35.10	-61.85	11.32	1.44	-51.97	-13.00	38.97
5197.800	V	34.77	-62.03	11.32	1.44	-52.15	-13.00	39.15
Frequency: 1752.6 MHz								
3505.200	H	34.38	-64.68	10.41	1.18	-55.45	-13.00	42.45
3505.200	V	34.79	-64.21	10.41	1.18	-54.98	-13.00	41.98
5257.800	H	35.02	-61.78	11.35	1.47	-51.90	-13.00	38.90
5257.800	V	34.16	-62.42	11.35	1.47	-52.54	-13.00	39.54

LTE Bands:

(The Worst modulation and bandwidth(1RB) was below)

LTE Band 2(1-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 1850.7 MHz								
3701.400	H	33.57	-65.39	10.60	1.25	-56.04	-13.00	43.04
3701.400	V	34.23	-64.71	10.60	1.25	-55.36	-13.00	42.36
5552.100	H	34.11	-62.07	11.44	1.49	-52.12	-13.00	39.12
5552.100	V	34.68	-61.34	11.44	1.49	-51.39	-13.00	38.39
1.4MHz QPSK, Frequency: 1880 MHz								
3760.000	H	34.17	-63.53	10.66	1.24	-54.11	-13.00	41.11
3760.000	V	35.02	-62.56	10.66	1.24	-53.14	-13.00	40.14
5640.000	H	34.66	-62.14	11.33	1.54	-52.35	-13.00	39.35
5640.000	V	34.87	-61.81	11.33	1.54	-52.02	-13.00	39.02
1.4MHz QPSK, Frequency: 1909.3 MHz								
3818.600	H	35.16	-61.82	10.72	1.29	-52.39	-13.00	39.39
3818.600	V	34.20	-62.63	10.72	1.29	-53.20	-13.00	40.20
5727.900	H	34.37	-62.76	11.23	1.59	-53.12	-13.00	40.12
5727.900	V	33.96	-63.04	11.23	1.59	-53.40	-13.00	40.40

LTE Band 4(1-18GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 1710.7 MHz								
3421.400	H	34.96	-63.95	10.37	1.17	-54.75	-13.00	41.75
3421.400	V	35.01	-63.87	10.37	1.17	-54.67	-13.00	41.67
5132.100	H	35.22	-60.92	11.28	1.47	-51.11	-13.00	38.11
5132.100	V	35.37	-60.66	11.28	1.47	-50.85	-13.00	37.85
1.4MHz QPSK, Frequency: 1732.5 MHz								
3465.000	H	34.51	-64.51	10.39	1.15	-55.27	-13.00	42.27
3465.000	V	35.02	-63.95	10.39	1.15	-54.71	-13.00	41.71
5197.500	H	35.33	-61.62	11.32	1.44	-51.74	-13.00	38.74
5197.500	V	34.78	-62.02	11.32	1.44	-52.14	-13.00	39.14
1.4MHz QPSK, Frequency: 1754.3 MHz								
3508.600	H	34.95	-64.09	10.41	1.19	-54.87	-13.00	41.87
3508.600	V	34.77	-64.20	10.41	1.19	-54.98	-13.00	41.98
5262.900	H	35.20	-61.59	11.36	1.47	-51.70	-13.00	38.70
5262.900	V	35.16	-61.40	11.36	1.47	-51.51	-13.00	38.51

LTE Band 7(1-26GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2502.5 MHz								
5005.000	H	34.78	-60.69	11.20	1.47	-50.96	-25.00	25.96
5005.000	V	35.13	-60.21	11.20	1.47	-50.48	-25.00	25.48
7507.500	H	35.55	-58.52	10.90	1.95	-49.57	-25.00	24.57
7507.500	V	35.20	-59.37	10.90	1.95	-50.42	-25.00	25.42
5MHz QPSK, Frequency: 2535 MHz								
5070.000	H	35.01	-60.65	11.24	1.47	-50.88	-25.00	25.88
5070.000	V	35.22	-60.33	11.24	1.47	-50.56	-25.00	25.56
7605.000	H	35.37	-58.11	10.88	2.01	-49.24	-25.00	24.24
7605.000	V	34.89	-59.30	10.88	2.01	-50.43	-25.00	25.43
5MHz QPSK, Frequency: 2567.5 MHz								
5135.000	H	36.01	-60.16	11.28	1.47	-50.35	-25.00	25.35
5135.000	V	35.58	-60.48	11.28	1.47	-50.67	-25.00	25.67
7702.500	H	35.44	-57.78	10.86	1.97	-48.89	-25.00	23.89
7702.500	V	34.96	-58.92	10.86	1.97	-50.03	-25.00	25.03

LTE Band 38(1-26.5GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2572.5 MHz								
5145.000	H	34.78	-61.52	11.29	1.44	-51.67	-25.00	26.67
5145.000	V	35.10	-61.08	11.29	1.44	-51.23	-25.00	26.23
7717.500	H	35.39	-57.86	10.86	1.99	-48.99	-25.00	23.99
7717.500	V	35.78	-58.09	10.86	1.99	-49.22	-25.00	24.22
5MHz QPSK, Frequency: 2595 MHz								
5190.000	H	35.33	-61.53	11.31	1.44	-51.66	-25.00	26.66
5190.000	V	34.69	-62.02	11.31	1.44	-52.15	-25.00	27.15
7785.000	H	35.27	-58.12	10.84	1.99	-49.27	-25.00	24.27
7785.000	V	35.30	-58.52	10.84	1.99	-49.67	-25.00	24.67
5MHz QPSK, Frequency: 2617.5 MHz								
5235.000	H	34.71	-62.16	11.34	1.46	-52.28	-25.00	27.28
5235.000	V	35.24	-61.44	11.34	1.46	-51.56	-25.00	26.56
7852.500	H	35.01	-58.47	10.83	2.03	-49.67	-25.00	24.67
7852.500	V	34.85	-59.02	10.83	2.03	-50.22	-25.00	25.22

LTE Band 41(1-27GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2537.5 MHz								
5075.000	H	35.11	-60.56	11.25	1.48	-50.79	-25.00	25.79
5075.000	V	34.79	-60.78	11.25	1.48	-51.01	-25.00	26.01
7612.500	H	35.23	-58.23	10.88	2.02	-49.37	-25.00	24.37
7612.500	V	35.68	-58.49	10.88	2.02	-49.63	-25.00	24.63
5MHz QPSK, Frequency: 2595 MHz								
5190.000	H	35.47	-61.39	11.31	1.44	-51.52	-25.00	26.52
5190.000	V	34.50	-62.21	11.31	1.44	-52.34	-25.00	27.34
7785.000	H	35.29	-58.10	10.84	1.99	-49.25	-25.00	24.25
7785.000	V	36.12	-57.70	10.84	1.99	-48.85	-25.00	23.85
5MHz QPSK, Frequency: 2652.5 MHz								
5305.000	H	38.40	-58.26	11.38	1.46	-48.34	-25.00	23.34
5305.000	V	35.22	-61.19	11.38	1.46	-51.27	-25.00	26.27
7957.500	H	35.17	-58.08	10.81	2.09	-49.36	-25.00	24.36
7957.500	V	36.01	-57.69	10.81	2.09	-48.97	-25.00	23.97

5. EUT PHOTOGRAPHS

Please refer to the attachment 2403Y36748E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2403Y36748E-RF-INP EUT INTERNAL PHOTOGRAPHS

6.TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2403Y36748E-RF-00E-TSP TEST SETUP PHOTOGRAPHS.

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