

FCC RF Test Report

APPLICANT : Ericsson Enterprise Wireless Solutions, Inc.
EQUIPMENT : 5G Sub-6 GHz LGA Module
BRAND NAME : Ericsson
MODEL NAME : RG650V-NA
FCC ID : UXX-2024RG650VNA
STANDARD : 47 CFR Part 27
CLASSIFICATION : PCS Licensed Transmitter (PCB)
TEST DATE(S) : Dec. 22, 2024 ~ Jan. 24, 2025

We, Sporton International Inc. (ShenZhen), would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (ShenZhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (ShenZhen)

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People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG4D0656D	Rev. 01	Initial issue of report	Feb. 17, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	—	PASS	-
3.5	§27.50 (a)(3)	EIRP	EIRP < 250mW/5MHz		-
4.4	§2.1053 §27.53 (a)(4)	Radiated Spurious Emission	< 70+10log ₁₀ (P[Watts])	PASS	Under limit 6.71 dB at 4615.50 MHz

Remark : This report by changing module trace design and adding Antenna.

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

1 General Description

1.1 Applicant

Ericsson Enterprise Wireless Solutions, Inc.
1100 W. Idaho St. Boise, ID 83702

1.2 Manufacturer

Ericsson Enterprise Wireless Solutions, Inc.
1100 W. Idaho St. Boise, ID 83702

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	5G Sub-6 GHz LGA Module
Brand Name	Ericsson
Model Name	RG650V-NA
FCC ID	UXX-2024RG650VNA
IMEI Code	Conducted: 357214899990622 Radiation: 866838070003881
HW Version	RG650V-NA
SW Version	RG650VNA01AAR01A04G8G
EUT Stage	Production Unit

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx Frequency	LTE Band 30 : 2305 MHz ~ 2315 MHz
Rx Frequency	LTE Band 30 : 2350 MHz ~ 2360 MHz
Bandwidth	5MHz / 10MHz
Maximum Output Power to Antenna	LTE Band 30 : 17.44 dBm
Antenna Gain	<Ant.7>: LTE Band 30 : 2.89 dBi
Antenna Type	Dipole Antenna
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum Conducted Power

LTE Band 30		QPSK	16QAM/64QAM/256QAM
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Maximum Conducted power (W)
5	2307.5 ~ 2312.5	0.0552	0.0550
10	2310.0	0.0555	0.0552

1.7 Testing Site

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH02-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a

1.9 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 27(D)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 Power Meas License Digital Systems D01 v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Configuration of Equipment Under Test

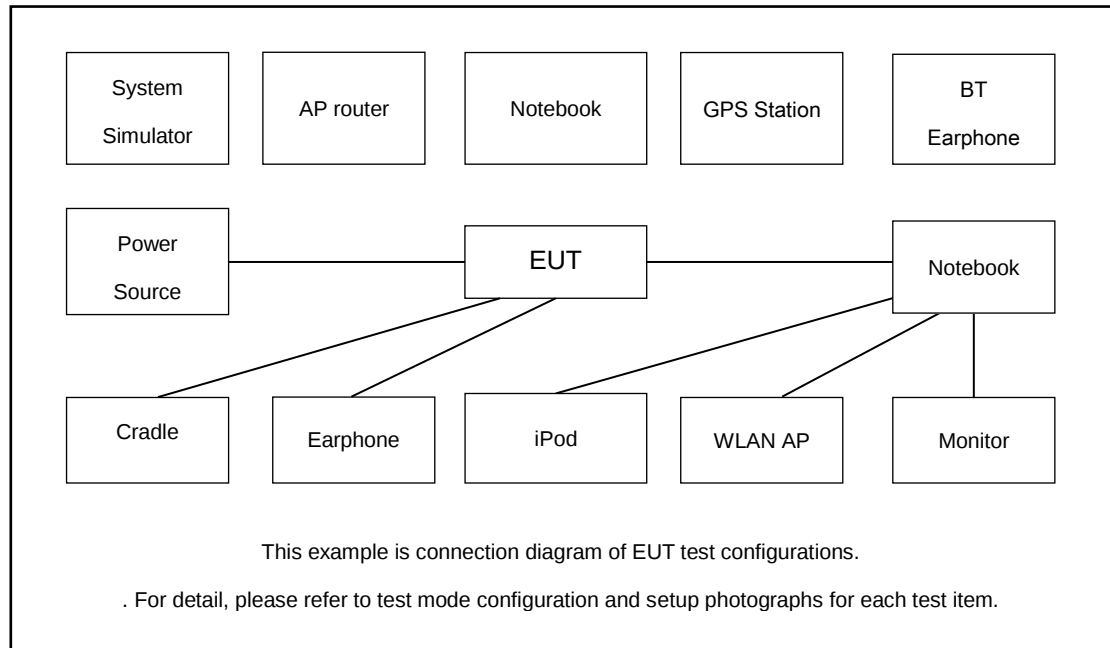
2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Conducted Test Cases	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	30	-	-	V		-	-	V	V	V	V	V	V	V	V	V	V
		-	-		V	-	-	V	V	V	V	V	V	V	V	V	V
E.I.R.P	30	-	-	V		-	-	V	V	V	V	V	V	V	V	V	V
		-	-		V	-	-	V	V	V	V	V	V	V	V	V	V
Radiated Spurious Emission	30	Worse case													V	V	V
Note	1. The mark “v ” means that this configuration is chosen for testing 2. The mark “-” means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.																

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Base Station	Anritsu	MT8821C	Fcc DoC	N/A	Shielded, 1.5m

2.4 Frequency List of Low/Middle/High Channels

LTE Band 30 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	27710	-
	Frequency	-	2310	-
5	Channel	27685	27710	27735
	Frequency	2307.5	2310	2312.5

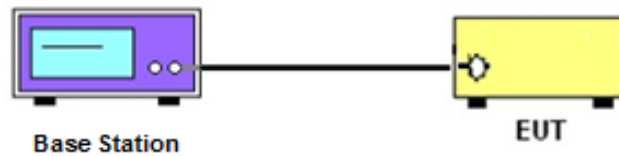
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 Conducted Output Power



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power Measurement

3.4.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.5 EIRP

3.5.1 Description of EIRP

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.

3.5.2 Test Procedures

1. According to KDB 412172 D01 Power Approach,
2. $EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where
 P_T = transmitter output power in dBm
 G_T = gain of the transmitting antenna in dBi
 L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

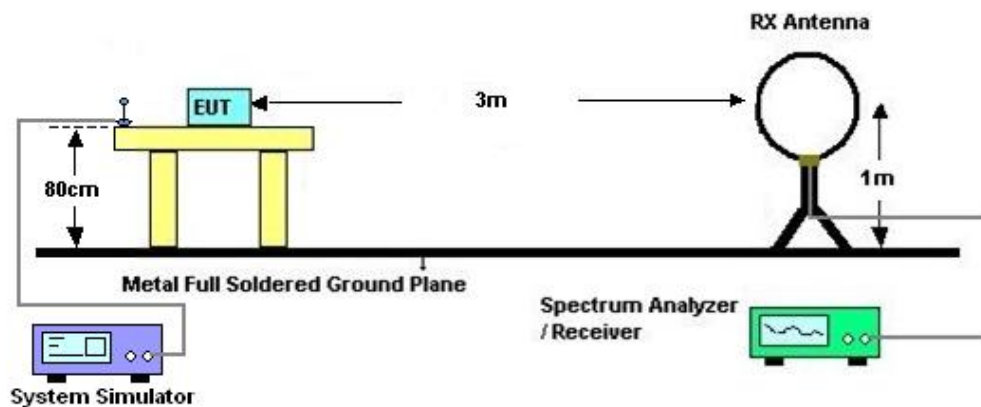
4 Radiated Test Items

4.1 Measuring Instruments

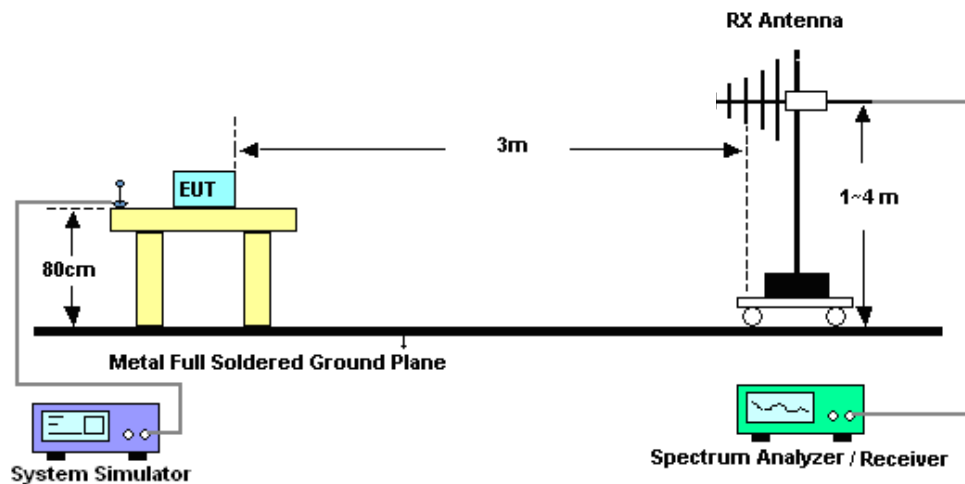
See list of measuring instruments of this test report.

4.2 Test Setup

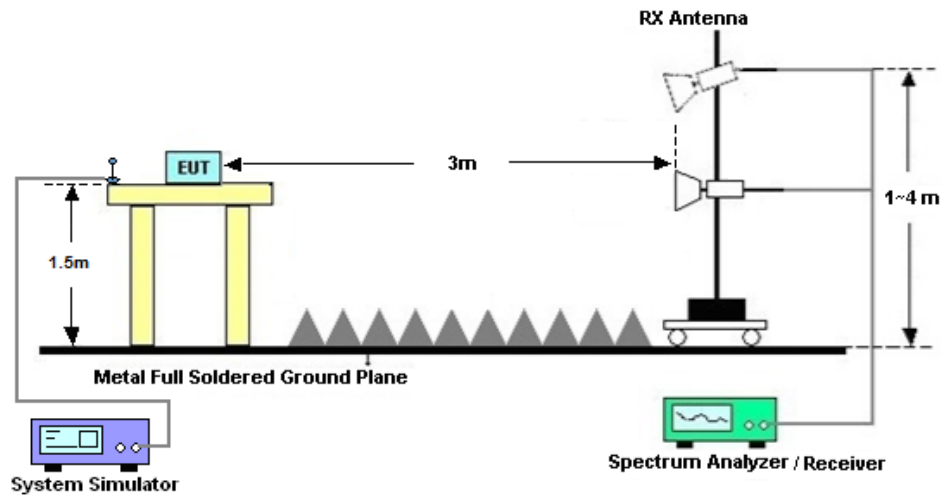
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

4.4 Radiated Spurious Emission Measurement

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $70 + 10 \log (P)$ dB.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
1. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.

$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$

$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$

9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $70 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [70 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [70 + 10\log(P)] \text{ (dB)}$$

$$= -40\text{dBm}.$$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 09, 2024	Jan. 24, 2025	Apr. 08, 2025	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct. 14, 2024	Jan. 24, 2025	Oct. 13, 2025	Conducted (TH01-SZ)
Power Divider	Titan	P02N005180	923402	0.4GHz~26.5GHz	Nov. 08, 2024	Jan. 24, 2025	Nov. 07, 2025	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2024	Dec. 22, 2024	Jul. 02, 2025	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 29, 2023	Dec. 22, 2024	Dec. 28, 2024	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Oct. 24, 2023	Dec. 22, 2024	Oct. 23, 2025	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Dec. 22, 2024	Jul. 04, 2025	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	Dec. 22, 2024	Jul. 03, 2025	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 09, 2024	Dec. 22, 2024	Apr. 08, 2025	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2024	Dec. 22, 2024	Oct. 17, 2025	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 14, 2024	Dec. 22, 2024	Oct. 13, 2025	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2024	Dec. 22, 2024	Oct. 17, 2025	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Dec. 22, 2024	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Dec. 22, 2024	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required

6 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	± 1.34 dB

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.47 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.47 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.31 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.72 dB
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----- THE END -----



Appendix A. Test Results of Conducted Test

Test Engineer :	Eason Wu	Temperature :	22~23°C
		Relative Humidity :	40~42%

Conducted Output Power(Average power) and EIRP

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				27710					
Frequency (MHz)				2310				M	
10	QPSK	1	0		17.44			0.1079	
10	QPSK	1	25		17.32			0.1050	
10	QPSK	1	49		17.35			0.1057	
10	QPSK	25	0		17.37			0.1062	
10	QPSK	25	12		17.40			0.1069	
10	QPSK	25	25		17.35			0.1057	
10	QPSK	50	0		17.38			0.1064	
10	16QAM	1	0		17.40			0.1069	
10	16QAM	1	25		17.42			0.1074	
10	16QAM	1	49		17.38			0.1064	
10	16QAM	25	0		17.25			0.1033	
10	16QAM	25	12		17.19			0.1019	
10	16QAM	25	25		17.22			0.1026	
10	16QAM	50	0		17.27			0.1038	
10	64QAM	1	0		17.11			0.1000	
10	64QAM	1	25		17.42			0.1074	
10	64QAM	1	49		17.33			0.1052	
10	64QAM	25	0		17.31			0.1047	
10	64QAM	25	12		17.25			0.1033	
10	64QAM	25	25		17.22			0.1026	
10	64QAM	50	0		17.16			0.1012	
10	256QAM	1	0		15.80			0.0740	
10	256QAM	1	25		16.11			0.0794	
10	256QAM	1	49		15.68			0.0719	
10	256QAM	25	0		15.72			0.0726	
10	256QAM	25	12		15.67			0.0718	
10	256QAM	25	25		15.77			0.0735	
10	256QAM	50	0		15.75			0.0731	
Channel				27685	27710	27735	EIRP(W)		
Frequency (MHz)				2307.5	2310	2312.5	L	M	H
5	QPSK	1	0	17.40	17.33	17.42	0.1069	0.1052	0.1074
5	QPSK	1	12	17.18	17.22	17.29	0.1016	0.1026	0.1042

5	QPSK	1	24	17.31	17.30	17.24	0.1047	0.1045	0.1030
5	QPSK	12	0	17.30	17.33	17.28	0.1045	0.1052	0.1040
5	QPSK	12	7	17.35	17.37	17.27	0.1057	0.1062	0.1038
5	QPSK	12	13	17.27	17.22	17.23	0.1038	0.1026	0.1028
5	QPSK	25	0	17.34	17.23	17.24	0.1054	0.1028	0.1030
5	16QAM	1	0	17.27	17.34	17.30	0.1038	0.1054	0.1045
5	16QAM	1	12	17.32	17.30	17.39	0.1050	0.1045	0.1067
5	16QAM	1	24	17.30	17.34	17.35	0.1045	0.1054	0.1057
5	16QAM	12	0	17.12	17.20	17.23	0.1002	0.1021	0.1028
5	16QAM	12	7	17.08	17.06	17.04	0.0993	0.0989	0.0984
5	16QAM	12	13	17.16	17.08	17.10	0.1012	0.0993	0.0998
5	16QAM	25	0	17.26	17.16	17.20	0.1035	0.1012	0.1021
5	64QAM	1	0	17.06	17.08	17.02	0.0989	0.0993	0.0979
5	64QAM	1	12	17.40	17.36	17.40	0.1069	0.1059	0.1069
5	64QAM	1	24	17.26	17.30	17.27	0.1035	0.1045	0.1038
5	64QAM	12	0	17.25	17.17	17.20	0.1033	0.1014	0.1021
5	64QAM	12	7	17.18	17.12	17.23	0.1016	0.1002	0.1028
5	64QAM	12	13	17.10	17.16	17.14	0.0998	0.1012	0.1007
5	64QAM	25	0	17.12	17.08	17.11	0.1002	0.0993	0.1000
5	256QAM	1	0	15.76	15.70	15.72	0.0733	0.0723	0.0726
5	256QAM	1	12	16.01	16.04	15.98	0.0776	0.0782	0.0771
5	256QAM	1	24	15.65	15.60	15.53	0.0714	0.0706	0.0695
5	256QAM	12	0	15.69	15.70	15.62	0.0721	0.0723	0.0710
5	256QAM	12	7	15.52	15.59	15.57	0.0693	0.0705	0.0701
5	256QAM	12	13	15.65	15.72	15.64	0.0714	0.0726	0.0713
5	256QAM	25	0	15.71	15.60	15.67	0.0724	0.0706	0.0718

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	PingZhou Liang	Temperature :	22~25°C
		Relative Humidity :	48~52%

LTE Band 30 / 5MHz / QPSK / ANT7									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4610.50	-53.68	-40	-13.68	-52.71	-59.93	6.30	12.55	H
	6915.75	-60.49	-40	-20.49	-65.33	-63.89	8.25	11.65	H
	9221.00	-55.92	-40	-15.92	-66.69	-58.27	9.50	11.85	H
	4610.50	-47.87	-40	-7.87	-47.28	-54.12	6.30	12.55	V
	6915.75	-59.72	-40	-19.72	-65.04	-63.12	8.25	11.65	V
	9221.00	-56.53	-40	-16.53	-66.48	-58.88	9.50	11.85	V
Middle	4615.50	-50.42	-40	-10.42	-49.48	-56.67	6.45	12.70	H
	6923.25	-60.27	-40	-20.27	-65.11	-63.67	8.40	11.80	H
	9231.00	-56.10	-40	-16.10	-66.87	-58.45	9.65	12.00	H
	4615.50	-46.71	-40	-6.71	-46.15	-52.96	6.45	12.70	V
	6923.25	-59.46	-40	-19.46	-64.78	-62.86	8.40	11.80	V
	9231.00	-56.63	-40	-16.63	-66.58	-58.98	9.65	12.00	V
Highest	4620.50	-54.07	-40	-14.07	-53.15	-60.32	6.61	12.86	H
	6930.75	-59.93	-40	-19.93	-64.90	-63.31	8.56	11.94	H
	9241.00	-56.21	-40	-16.21	-67.03	-58.56	9.81	12.16	H
	4620.50	-49.29	-40	-9.29	-48.75	-55.54	6.61	12.86	V
	6930.75	-59.49	-40	-19.49	-64.93	-62.87	8.56	11.94	V
	9241.00	-57.17	-40	-17.17	-67.15	-59.52	9.81	12.16	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

LTE Band 30 / 10MHz / QPSK / ANT7									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	4611.00	-53.26	-40	-13.26	-52.30	-59.51	6.45	12.70	H
	6916.50	-60.41	-40	-20.41	-65.25	-63.81	8.40	11.80	H
	9222.00	-55.79	-40	-15.79	-66.56	-58.14	9.65	12.00	H
	4611.00	-47.01	-40	-7.01	-46.43	-53.26	6.45	12.70	V
	6916.50	-60.13	-40	-20.13	-65.45	-63.53	8.40	11.80	V
	9222.00	-56.82	-40	-16.82	-66.77	-59.17	9.65	12.00	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.