

TEST REPORT

Applicant: Hankook Technology Commerce Limited

Address of Applicant: FLAT E, 23/F GOLDEN SUN CENTRE 56-67 BONHAM
STRAND WEST SHEUNG WAN HK

Manufacturer Hankook Technology Commerce Limited

Address of FLAT E, 23/F GOLDEN SUN CENTRE 56-67 BONHAM

Manufacturer: STRAND WEST SHEUNG WAN HK

Equipment Under Test (EUT)

Product Name: 5G Mobile Phone

Model No.: NX809J

FCC ID: 2BTCR-NX809J

Applicable standards: FCC CFR Title 47 Part 2
FCC CFR Title 47 Part 22
FCC CFR Title 47 Part 24
FCC CFR Title 47 Part 27
FCC CFR Title 47 Part 90

Date of sample receipt: November 18, 2025

Date of Test: November 19, 2025-December 25, 2025

Date of report issued: December 25, 2025

Test Result : PASS *

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.



2 Version

Version No.	Date	Description
00	December 25, 2025	Original

Tested By:

Jaosh. Gai

Date:

December 25, 2025

Test Engineer

Prepared By:

Jasmille

Date:

December 25, 2025

Project Engineer

Check By:

Robinson

Date:

December 25, 2025

Reviewer

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4 Test Summary

Test Item	Section in CFR 47	Result
RF Output Power	Part 2.1046 Part 24.232 (c) Part 27.50 (d)(4) Part 90.635 (b) Part 22.913 (a)(5) Part 27.50 (h)(2) Part 27.50 (c)(10)	Pass
Peak-to-Average Ratio	Part 22.913 (d) Part 24.232 (d) Part 27.50 (d)(5)	Pass
99% Occupied Bandwidth & 26dB Emissions Bandwidth	Part 2.1049	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 22.917 (a) Part 24.238 (a) Part 27.53 (h) Part 27.53 (g) Part 27.53 (m)(4) Part 90.691 (a)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a) Part 27.53 (h) Part 27.53 (g) Part 27.53 (m)(4) Part 90.691 (a)	Pass
Out of band emission, Band Edge	Part 2.1053 Part 22.917 (a) Part 24.238 (a) Part 27.53 (h) Part 27.53 (g) Part 27.53 (m)(4) Part 90.691 (a)	Pass
Frequency stability vs. temperature	Part 2.1055 Part 22.355 Part 24.235 Part 27.54 Part 90.213 (a)	Pass
Frequency stability vs. voltage	Part 2.1055 Part 22.355 Part 24.235 Part 27.54 Part 90.213 (a)	Pass

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.
2. N/A: Not applicable.

5 General Information

5.1 General Description of EUT

Product Name:	5G Mobile Phone	
Model No.:	NX809J	
Tested Sample(s) ID:	GTSL2025120078F-2, GTSL2025120078F-3	
Sample(s) Status:	Engineer sample	
Support Bands:	LTE Band 2/4/5/7/12/17/25/26/41/66 LTE Band 7C/41C	
Channel Bandwidth:	LTE Band 2/4/66: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz LTE Band 5/12/26(Part 90): 1.4MHz/3MHz/5MHz/10MHz LTE Band 7: 5MHz/10MHz/15MHz/20MHz LTE Band 17: 5MHz/10MHz LTE Band 26(Part 22): 1.4MHz/3MHz/5MHz/10MHz/15MHz LTE Band 41: 5MHz/10MHz/15MHz/20MHz LTE Band 7C: 10MHz+20MHz/15MHz+10MHz/15MHz+15MHz/ 15MHz+20MHz/20MHz+10MHz/20MHz+15MHz/20MHz+20MHz LTE Band 41C: 5MHz+20MHz/10MHz+15MHz/10MHz+20MHz/ 15MHz+10MHz/15MHz+15MHz/15MHz+20MHz/20MHz+5MHz/ 20MHz+10MHz/20MHz+15MHz/20MHz+20MHz	
TX Frequency:	LTE Band 2: 1850MHz~1910MHz LTE Band 4: 1710MHz~1755MHz LTE Band 5: 824MHz~849MHz LTE Band 7: 2500MHz~2570MHz LTE Band 12: 699MHz~716MHz LTE Band 17: 704MHz~716MHz	LTE Band 26(Part 90): 814MHz~824MHz LTE Band 26(Part 22): 824MHz~849MHz LTE Band 41C: 2496MHz~2690MHz LTE Band 66: 1710MHz~1780MHz LTE Band 7C: 2500MHz~2570MHz LTE Band 41C: 2496MHz~2690MHz
Modulation type:	QPSK/16QAM/64QAM(downlink only)	
Antenna type:	Internal Antenna	
Antenna gain:	Band 2:	Ant1: -0.65dBi, Ant4: -4.6dBi
	Band 4:	Ant1: -1.5dBi, Ant4: -4.4dBi
	Band 5:	Ant3: -3.2dBi, Ant5: -3.6dBi
	Band 7:	Ant1: -1.13dBi, Ant4: -2.6dBi
	Band 12:	Ant3: -4.3dBi, Ant5: -2.5dBi
	Band 17:	Ant3: -4.3dBi, Ant5: -2.5dBi
	Band 26:	Ant3: -3.3dBi, Ant5: -3.5dBi
	Band 41:	Ant1: -1.3dBi, Ant4: -1.8dBi
	Band 66:	Ant1: -1.5dBi, Ant4: -4.6dBi
Power supply:	Rechargeable Li-ion Polymer Battery DC 3.79V/7500mAh	

Disclaimer statement:

1. Antenna gain information provided by the customer, and the laboratory is not responsible for its authenticity.
2. The information in this section is provided by the applicant or manufacturer, GTS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

5.2 Maximum ERP/EIRP, Frequency Tolerance and Emission Designator

LTE Bands	Type of Modulation	Bandwidth (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum EIRP(W)
LTE Band 2	QPSK	1.4	1M10G7D	—	0.178
LTE Band 2	16QAM	1.4	1M10W7D	—	0.140
LTE Band 2	QPSK	3	2M69G7D	—	0.187
LTE Band 2	16QAM	3	2M68W7D	—	0.145
LTE Band 2	QPSK	5	4M52G7D	—	0.185
LTE Band 2	16QAM	5	4M52W7D	—	0.146
LTE Band 2	QPSK	10	8M94G7D	0.002745	0.184
LTE Band 2	16QAM	10	8M97W7D	—	0.149
LTE Band 2	QPSK	15	13M5G7D	—	0.190
LTE Band 2	16QAM	15	13M5W7D	—	0.150
LTE Band 2	QPSK	20	18M0G7D	—	0.187
LTE Band 2	16QAM	20	17M9W7D	—	0.150
LTE Band 4	QPSK	1.4	1M11G7D	—	0.147
LTE Band 4	16QAM	1.4	1M11W7D	—	0.116
LTE Band 4	QPSK	3	2M69G7D	—	0.150
LTE Band 4	16QAM	3	2M69W7D	—	0.121
LTE Band 4	QPSK	5	4M53G7D	—	0.154
LTE Band 4	16QAM	5	4M52W7D	—	0.125
LTE Band 4	QPSK	10	8M96G7D	0.002401	0.149
LTE Band 4	16QAM	10	8M95W7D	—	0.121
LTE Band 4	QPSK	15	13M5G7D	—	0.148
LTE Band 4	16QAM	15	13M5W7D	—	0.123
LTE Band 4	QPSK	20	18M0G7D	—	0.149
LTE Band 4	16QAM	20	18M0W7D	—	0.121
LTE Band 7	QPSK	5	4M52G7D	—	0.171
LTE Band 7	16QAM	5	4M51W7D	—	0.136
LTE Band 7	QPSK	10	8M94G7D	-0.003199	0.168

LTE Band 7	16QAM	10	8M95W7D	—	0.143
LTE Band 7	QPSK	15	13M5G7D	—	0.168
LTE Band 7	16QAM	15	13M5W7D	—	0.141
LTE Band 7	QPSK	20	17M9G7D	—	0.165
LTE Band 7	16QAM	20	17M9W7D	—	0.140
LTE Band 41	QPSK	5	4M51G7D	—	0.168
LTE Band 41	16QAM	5	4M52W7D	—	0.133
LTE Band 41	QPSK	10	8M96G7D	0.002619	0.162
LTE Band 41	16QAM	10	8M95W7D	—	0.129
LTE Band 41	QPSK	15	13M5G7D	—	0.163
LTE Band 41	16QAM	15	13M5W7D	—	0.134
LTE Band 41	QPSK	20	17M9G7D	—	0.166
LTE Band 41	16QAM	20	17M9W7D	—	0.136
LTE Band 66	QPSK	1.4	1M11G7D	—	0.152
LTE Band 66	16QAM	1.4	1M11W7D	—	0.121
LTE Band 66	QPSK	3	2M69G7D	—	0.154
LTE Band 66	16QAM	3	2M69W7D	—	0.122
LTE Band 66	QPSK	5	4M52G7D	—	0.155
LTE Band 66	16QAM	5	4M52W7D	—	0.123
LTE Band 66	QPSK	10	8M95G7D	-0.003117	0.153
LTE Band 66	16QAM	10	8M94W7D	—	0.122
LTE Band 66	QPSK	15	13M5G7D	—	0.157
LTE Band 66	16QAM	15	13M5W7D	—	0.125
LTE Band 66	QPSK	20	17M9G7D	—	0.153
LTE Band 66	16QAM	20	17M9W7D	—	0.121
LTE Band 7C	QPSK	10+20	27M8G7D	—	0.167
LTE Band 7C	16QAM	10+20	27M8W7D	—	0.129
LTE Band 7C	QPSK	15+10	23M2G7D	—	0.163
LTE Band 7C	16QAM	15+10	23M3W7D	—	0.129
LTE Band 7C	QPSK	15+15	28M4G7D	—	0.175

LTE Band 7C	16QAM	15+15	28M4W7D	—	0.134
LTE Band 7C	QPSK	15+20	32M7G7D	—	0.178
LTE Band 7C	16QAM	15+20	32M6W7D	—	0.131
LTE Band 7C	QPSK	20+10	27M8G7D	—	0.173
LTE Band 7C	16QAM	20+10	27M8W7D	—	0.134
LTE Band 7C	QPSK	20+15	32M7G7D	—	0.163
LTE Band 7C	16QAM	20+15	32M7W7D	—	0.134
LTE Band 7C	QPSK	20+20	37M7G7D	0.008320	0.163
LTE Band 7C	16QAM	20+20	37M7W7D	—	0.127
LTE Band 41C	QPSK	5+20	23M0G7D	—	0.153
LTE Band 41C	16QAM	5+20	23M0W7D	—	0.120
LTE Band 41C	QPSK	10+15	23M2G7D	—	0.158
LTE Band 41C	16QAM	10+15	23M2W7D	—	0.128
LTE Band 41C	QPSK	10+20	27M8G7D	—	0.153
LTE Band 41C	16QAM	10+20	27M9W7D	—	0.124
LTE Band 41C	QPSK	15+10	23M2G7D	—	0.164
LTE Band 41C	16QAM	15+10	23M2W7D	—	0.136
LTE Band 41C	QPSK	15+15	28M4G7D	—	0.154
LTE Band 41C	16QAM	15+15	28M4W7D	—	0.121
LTE Band 41C	QPSK	15+20	32M7G7D	—	0.161
LTE Band 41C	16QAM	15+20	32M8W7D	—	0.121
LTE Band 41C	QPSK	20+5	23M0G7D	—	0.157
LTE Band 41C	16QAM	20+5	23M0W7D	—	0.121
LTE Band 41C	QPSK	20+10	27M9G7D	—	0.151
LTE Band 41C	16QAM	20+10	27M9W7D	—	0.118
LTE Band 41C	QPSK	20+15	32M8G7D	—	0.149
LTE Band 41C	16QAM	20+15	32M8W7D	—	0.126
LTE Band 41C	QPSK	20+20	37M7G7D	0.010228	0.149
LTE Band 41C	16QAM	20+20	37M7W7D	—	0.120

LTE Band	Type of Modulation	Bandwidth (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum ERP(W)
LTE Band 5	QPSK	1.4	1M10G7D	—	0.062
LTE Band 5	16QAM	1.4	1M10W7D	—	0.049
LTE Band 5	QPSK	3	2M69G7D	—	0.063
LTE Band 5	16QAM	3	2M68W7D	—	0.051
LTE Band 5	QPSK	5	4M53G7D	—	0.064
LTE Band 5	16QAM	5	4M52W7D	—	0.053
LTE Band 5	QPSK	10	8M94G7D	-0.005439	0.064
LTE Band 5	16QAM	10	8M94W7D	—	0.052
LTE Band 12	QPSK	1.4	1M11G7D	—	0.072
LTE Band 12	16QAM	1.4	1M11W7D	—	0.057
LTE Band 12	QPSK	3	2M69G7D	—	0.072
LTE Band 12	16QAM	3	2M69W7D	—	0.058
LTE Band 12	QPSK	5	4M50G7D	—	0.073
LTE Band 12	16QAM	5	4M51W7D	—	0.058
LTE Band 12	QPSK	10	8M93G7D	0.005965	0.073
LTE Band 12	16QAM	10	8M92W7D	—	0.058
LTE Band 17	QPSK	5	4M53G7D	—	0.075
LTE Band 17	16QAM	5	4M53W7D	—	0.060
LTE Band 17	QPSK	10	8M96G7D	-0.003690	0.073
LTE Band 17	16QAM	10	8M95W7D	—	0.059
LTE Band 26(Part 22)	QPSK	1.4	1M10G7D	—	0.061
LTE Band 26(Part 22)	16QAM	1.4	1M11W7D	—	0.049
LTE Band 26(Part 22)	QPSK	3	2M69G7D	—	0.060
LTE Band 26(Part 22)	16QAM	3	2M69W7D	—	0.050
LTE Band 26(Part 22)	QPSK	5	4M52G7D	—	0.062
LTE Band 26(Part 22)	16QAM	5	4M52W7D	—	0.049
LTE Band 26(Part 22)	QPSK	10	8M96G7D	0.003180	0.060

LTE Band 26(Part 22)	16QAM	10	8M94W7D	—	0.050
LTE Band 26(Part 22)	QPSK	15	13M5G7D	—	0.061
LTE Band 26(Part 22)	16QAM	15	13M5W7D	—	0.049
LTE Band 26(Part 90)	QPSK	1.4	1M10G7D	—	0.060
LTE Band 26(Part 90)	16QAM	1.4	1M11W7D	—	0.048
LTE Band 26(Part 90)	QPSK	3	2M69G7D	—	0.062
LTE Band 26(Part 90)	16QAM	3	2M69W7D	—	0.050
LTE Band 26(Part 90)	QPSK	5	4M52G7D	—	0.063
LTE Band 26(Part 90)	16QAM	5	4M53W7D	—	0.051
LTE Band 26(Part 90)	QPSK	10	8M96G7D	0.002967	0.062
LTE Band 26(Part 90)	16QAM	10	8M96W7D	—	0.048

5.3 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with Section Part 22/27 of the FCC CFR 47 Rules.

5.4 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on ANSI C63.26:2015 and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057

5.5 Deviation from Standards

None.

5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC —Registration No.: 381383**

Designation Number: CN5029

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files.

- **ISED—Registration No.: 9079A**

CAB identifier: CN0091

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of ISED for radio equipment testing.

- **NVLAP (LAB CODE:600179-0)**

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).

5.7 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480

Fax: 0755-27798960

6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Apr. 11, 2025	Apr. 10, 2026
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Apr. 12, 2025	Apr. 11, 2026
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	Apr. 12, 2025	Apr. 11, 2026
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	Apr. 11, 2025	Apr. 10, 2026
6	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	Jul. 01, 2025	Jun. 30, 2026
7	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov.15, 2025	Nov.14, 2026
8	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	Apr. 11, 2025	Apr. 10, 2026
9	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	Apr. 11, 2025	Apr. 10, 2026
10	Horn Antenna (18GH-40GHz)	Schwarzbeck	BBHA 9170	GTS691	Apr. 11, 2025	Apr. 10, 2026
11	FSV·Signal Analyzer (10Hz-40GHz)	Keysight	FSV-40-N	GTS666	Mar. 11, 2025	Mar. 10, 2026
12	Amplifier	/	LNA-1000-30S	GTS650	Apr. 11, 2025	Apr. 10, 2026
13	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS692	Nov. 12, 2025	Nov. 11, 2026
14	Wideband Amplifier	/	WDA-01004000-15P35	GTS602	Apr. 11, 2025	Apr. 10, 2026
15	Thermo meter	JINCHUANG	GSP-8A	GTS643	Apr. 15, 2025	Apr. 14, 2026
16	RE cable 1	GTS	N/A	GTS675	Jul. 11, 2025	Jul. 10, 2026
17	RE cable 2	GTS	N/A	GTS676	Jul. 11, 2025	Jul. 10, 2026
18	RE cable 3	GTS	N/A	GTS677	Jul. 11, 2025	Jul. 10, 2026
19	RE cable 4	GTS	N/A	GTS678	Jul. 11, 2025	Jul. 10, 2026
20	RE cable 5	GTS	N/A	GTS679	Jul. 11, 2025	Jul. 10, 2026
21	RE cable 6	GTS	N/A	GTS680	Jul. 11, 2025	Jul. 10, 2026
22	RE cable 7	GTS	N/A	GTS681	Jul. 11, 2025	Jul. 10, 2026
23	RE cable 8	GTS	N/A	GTS682	Jul. 11, 2025	Jul. 10, 2026
24	EMI Test Software	AUDIX	E3-6.100614a	GTS725	N/A	N/A

RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	Apr. 11, 2025	Apr. 10, 2026
2	EMI Test Receiver	R&S	ESCI 7	GTS552	Apr. 12, 2025	Apr. 11, 2026
3	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	Apr. 11, 2025	Apr. 10, 2026
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	Apr. 11, 2025	Apr. 10, 2026
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	Apr. 11, 2025	Apr. 10, 2026
6	Wideband Power Meter	Keysight	N1924A	GTS673	Apr. 11, 2025	Apr. 10, 2026
7	USB RF Power Sensor	DARE	RPR3006W	GTS569	Apr. 11, 2025	Apr. 10, 2026
8	RF Switch Box	Shongyi	RFSW3003328	GTS571	Apr. 11, 2025	Apr. 10, 2026
9	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	Apr. 11, 2025	Apr. 10, 2026
10	Thermo meter	JINCHUANG	GSP-8A	GTS641	Apr. 15, 2025	Apr. 14, 2026

General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	KUMAO	SF132	GTS647	Jul. 16, 2025	Jul. 15, 2026

7 System test configuration

7.1 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(X: flat, Y: portrait, Z: landscape) different orthogonal test planes to find the maximum emission.

LTE Bands	Conducted Measurement	Radiated Measurement	Antenna Direction(Axis)
LTE Band 5/26	Ant3	Ant 3	Y
LTE Band 12/17	Ant3	Ant 5	Y
LTE Band 2	Ant1	Ant 4	Y
LTE Band 4/66	Ant4	Ant 1	Y
LTE Band 7/7C	Ant1	Ant 1	Y
LTE Band 41/41C	Ant1	Ant 1	Y

Note: Conducted output power is measured on all antenna ports, other conducted items are measured on the maximum output power port.

Test Items	Band	Bandwidth(MHz)						Modulation		RB Configuration			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Conducted Output Power and ERP/EIRP	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	4/66	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	5/12	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
	7/41			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	17			✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
	26 (Part 22)	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓
	26 (Part 90)	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
Peak-to-Average Ratio	2						✓		✓	✓		✓	✓	✓	✓
	4/66						✓		✓	✓		✓	✓	✓	✓
	5/12				✓				✓	✓		✓	✓	✓	✓
	7/41						✓		✓	✓		✓	✓	✓	✓
	17				✓				✓	✓		✓	✓	✓	✓
	26 (Part 22)				✓				✓	✓		✓	✓	✓	✓
	26 (Part 90)				✓				✓	✓		✓	✓	✓	✓
99% OBW and 26dB EBW	2	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓	
	4/66	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓	

	5/12	✓	✓	✓	✓			✓	✓			✓		✓	
	7/41			✓	✓	✓	✓	✓	✓			✓		✓	
	17			✓	✓			✓	✓			✓		✓	
	26 (Part 22)	✓	✓	✓	✓	✓		✓	✓			✓		✓	
	26 (Part 90)	✓	✓	✓	✓			✓	✓			✓		✓	
Conducted Band Edge	2	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓		✓
	4/66	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓		✓
	5/12	✓	✓	✓	✓			✓		✓		✓	✓		✓
	7/41			✓	✓	✓	✓	✓		✓		✓	✓		✓
	17			✓	✓			✓		✓		✓	✓		✓
	26 (Part 22)	✓	✓	✓	✓	✓		✓		✓		✓	✓		✓
	26 (Part 90)	✓	✓	✓	✓			✓		✓		✓	✓		✓
Conducted Spurious Emission	2						✓	✓		✓			✓	✓	✓
	4/66						✓	✓		✓			✓	✓	✓
	5/12				✓			✓		✓			✓	✓	✓
	7/41						✓	✓		✓			✓	✓	✓
	17				✓			✓		✓			✓	✓	✓
	26 (Part 22)				✓			✓		✓			✓	✓	✓
	26 (Part 90)				✓			✓		✓			✓	✓	✓
Frequency Stability	2				✓			✓				✓		✓	
	4/66				✓			✓				✓		✓	
	5/12				✓			✓				✓		✓	
	7/41				✓			✓				✓		✓	
	17				✓			✓				✓		✓	
	26 (Part 22)				✓			✓				✓		✓	
	26 (Part 90)				✓			✓				✓		✓	
Radiated Spurious Emission	2	Worst case												✓	
	4	Worst case												✓	
	5	Worst case												✓	
	7	Worst case												✓	
	12	Worst case												✓	
	17	Worst case												✓	
	26 (Part 22)	Worst case												✓	
	26 (Part 90)	Worst case												✓	
	41	Worst case												✓	
	66	Worst case												✓	

Note 1: The mark“✓”means that this configuration is chosen for testing.

Note 2: The EUT performs radiated spurious emission tests from 30MHz to 10 times the fundamental signal under different RB configurations and modulation types. Only worst-case data is reported.

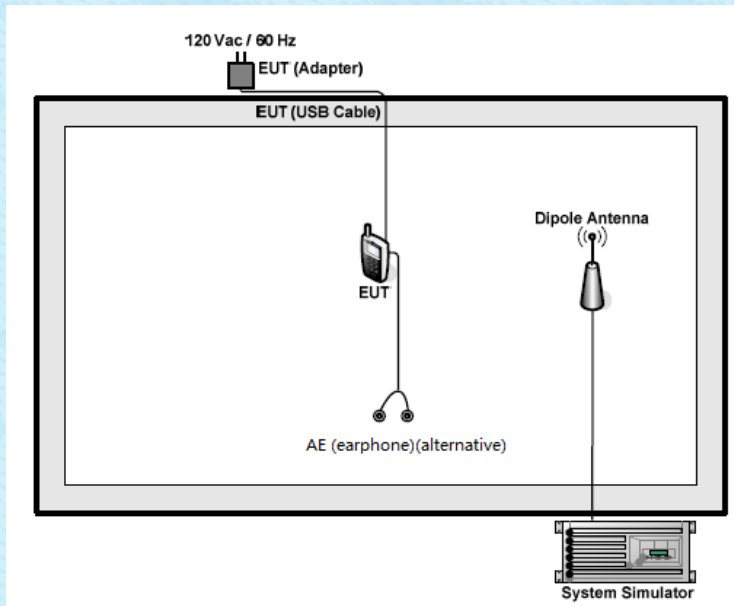
LTE Band 7C:

Test Items	Band	Bandwidth(MHz)	Modulation	RB Configuration	Test Channel
Conducted Output Power and ERP/EIRP	41C	10+20, 15+10, 15+15, 15+20, 20+10, 20+15, 20+20	QPSK, 16QAM	1RB, Half, Full	L, M, H
Peak-to-Average Ratio	41C	20+20	QPSK, 16QAM	Full	M
99% OBW and 26dB EBW	41C	5+20, 10+15, 10+20, 15+10, 15+15, 15+20, 20+5, 20+10, 20+15, 20+20	QPSK, 16QAM	Full	M
Conducted Band Edge	41C	10+20, 15+10, 15+15, 15+20, 20+10, 20+15, 20+20	QPSK	1RB, Full	L, H
Conducted Spurious Emission	41C	20+20	QPSK	1RB	L, M, H
Frequency Stability	41C	20+20	QPSK	Full	M
Radiated Spurious Emission	41C	20+20	QPSK	1RB	M

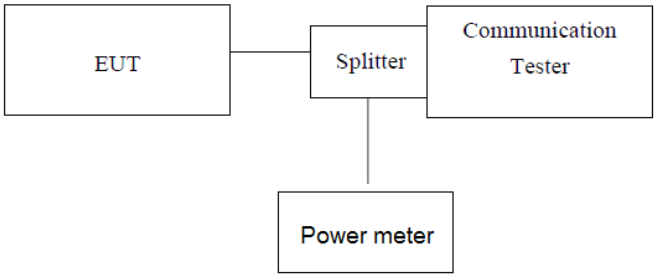
LTE Band 41C:

Test Items	Band	Bandwidth(MHz)	Modulation	RB Configuration	Test Channel
Conducted Output Power and ERP/EIRP	41C	5+20, 10+15, 10+20, 15+10, 15+15, 15+20, 20+5, 20+10, 20+15, 20+20	QPSK, 16QAM	1RB, Half, Full	L, M, H
Peak-to-Average Ratio	41C	20+20	QPSK, 16QAM	Full	M
99% OBW and 26dB EBW	41C	5+20, 10+15, 10+20, 15+10, 15+15, 15+20, 20+5, 20+10, 20+15, 20+20	QPSK, 16QAM	Full	M
Conducted Band Edge	41C	5+20, 10+15, 10+20, 15+10, 15+15, 15+20, 20+5, 20+10, 20+15, 20+20	QPSK	1RB, Full	L, H
Conducted Spurious Emission	41C	20+20	QPSK	1RB	L, M, H
Frequency Stability	41C	20+20	QPSK	Full	M
Radiated Spurious Emission	41C	20+20	QPSK	1RB	M

7.2 Configuration of Tested System

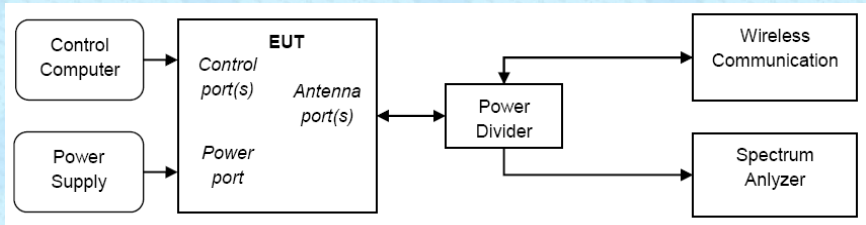


7.3 Conducted Output Power & E.R.P. & E.I.R.P.

Test Requirement:	FCC Part 2.1046, Part 22.913, Part 24.232 (c), Part 27.50 (d)(4), Part 90.635 (b), Part 22.913 (a)(5), Part 27.50 (h)(2), Part 27.50 (c)(10)
Test Method:	FCC KDB 971168 D01 V03r01 & ANSI C63.26
Limit:	LTE Band 2/25/7/7C/41/41C: 2W LTE Band 4/66: 1W LTE Band 5/26_Part 22: 7W LTE Band 26_Part 90: 100W LTE Band 12/17: 3W
Test setup:	 <i>Note: Measurement setup for testing on Antenna connector</i>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 for details
Test results:	Pass

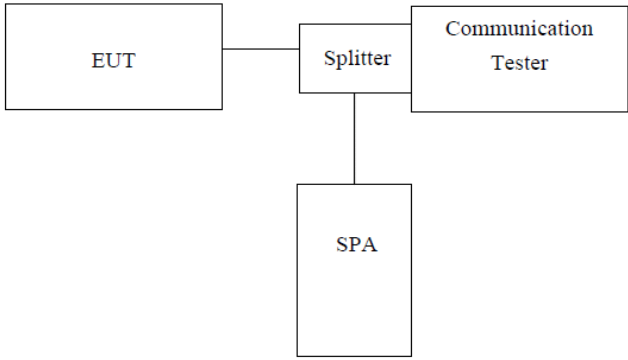
Measurement Data: The detailed test data see Appendix for LTE.

7.4 Peak-to-Average Ratio

Test Requirement:	FCC Part 2.1046, Part 22.913 (d), Part 24.232 (d), Part 27.50 (d)(5)
Test Method:	FCC KDB 971168 D01 V03r01 & ANSI C63.26
Limit:	13db
Test setup:	 <pre> graph LR CC[Control Computer] --> EUT_Control[EUT Control port(s)] PS[Power Supply] --> EUT_Power[EUT Power port] EUT_Antenna[EUT Antenna port(s)] <--> PD[Power Divider] PD --> WC[Wireless Communication] PD --> SA[Spectrum Analyzer] </pre>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 for details
Test results:	Pass

Measurement data: The detailed test data see Appendix for LTE.

7.5 99% Occupied Bandwidth & 26dB Emissions Bandwidth

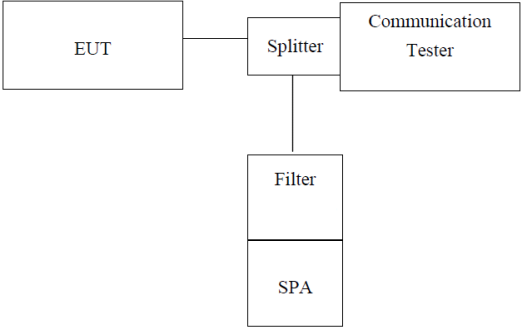
Test Requirement:	FCC Part 2.1049
Test Method:	FCC KDB 971168 D01 V03r01
Test setup:	 <i>Note: Measurement setup for testing on Antenna connector</i>
Test Procedure:	1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer 2. RBW was set to about 1% of emission BW, VBW= 3 times RBW. 3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for LTE.

7.6 MODULATION CHARACTERISTIC

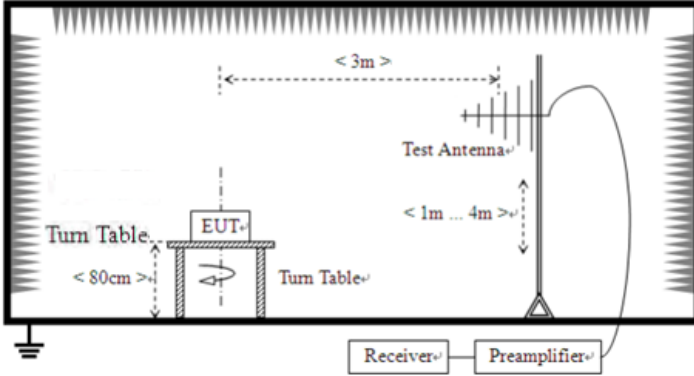
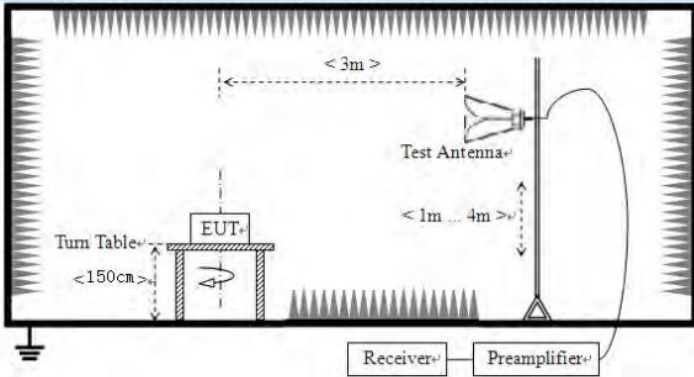
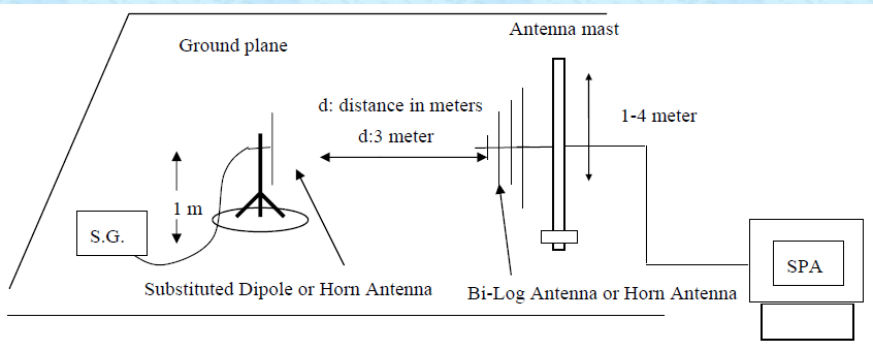
According to FCC § 2.1047(d), Part 27 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

7.7 Out of band emission at antenna terminals

Test Requirement:	FCC Part 2.1051, Part 22.917 (a), Part 24.238 (a), Part 27.53 (h), Part 27.53 (g), Part 27.53 (m)(4), Part 90.691 (a)
Test Method:	FCC Part 2.1051 & FCC KDB 971168 D01 V03r01
Test setup:	 <i>Note: Measurement setup for testing on Antenna connector</i>
Test Procedure:	1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic. 3 For the out of band: Set the RBW, VBW = 1MHz, Start=30MHz, Stop= 10th harmonic. 4 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for LTE.

7.8 Field strength of spurious radiation measurement

Test Requirement:	FCC Part 2.1053, Part 22.917 (a), Part 24.238 (a), Part 27.53 (h), Part 27.53 (g), Part 27.53 (m)(4), Part 90.691 (a)
Test Method:	FCC Part 2.1053 and ANSI C63.26:2015
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 for details
Test results:	Pass

Measurement Data:

All condition were test, only report worst case.

LTE Band 2 QPSK 20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	39.96	-94.39	-72.74	-13.00	59.74	21.65	Horizontal
2	103.84	-93.07	-73.71	-13.00	60.71	19.36	Horizontal
3	140.17	-94.45	-73.79	-13.00	60.79	20.66	Horizontal
4	4871.81	-59.11	-44.37	-13.00	31.37	14.74	Horizontal
5	6982.26	-60.84	-43.56	-13.00	30.56	17.28	Horizontal
6	16300.85	-64.77	-39.54	-13.00	26.54	25.23	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	38.20	-91.09	-70.70	-13.00	57.70	20.39	Vertical
2	51.39	-93.31	-74.32	-13.00	61.32	18.99	Vertical
3	111.02	-88.22	-64.80	-13.00	51.80	23.42	Vertical
4	4791.09	-59.40	-44.79	-13.00	31.79	14.61	Vertical
5	7500.07	-60.25	-40.58	-13.00	27.58	19.67	Vertical
6	12867.21	-63.02	-39.79	-13.00	26.79	23.23	Vertical

LTE Band 4 QPSK 20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	64.23	-85.50	-66.16	-13.00	53.16	19.34	Horizontal
2	99.23	-88.15	-68.94	-13.00	55.94	19.21	Horizontal
3	300.55	-91.53	-65.62	-13.00	52.62	25.91	Horizontal
4	7560.16	-60.19	-40.55	-13.00	27.55	19.64	Horizontal
5	12748.04	-62.70	-39.66	-13.00	26.66	23.04	Horizontal
6	17351.70	-66.51	-37.42	-13.00	24.42	29.09	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	62.58	-85.94	-65.59	-13.00	52.59	20.35	Vertical
2	99.50	-88.52	-64.09	-13.00	51.09	24.43	Vertical
3	298.38	-93.28	-67.97	-13.00	54.97	25.31	Vertical
4	4785.37	-59.58	-45.05	-13.00	32.05	14.53	Vertical
5	7481.79	-61.43	-41.76	-13.00	28.76	19.67	Vertical
6	14064.28	-62.99	-39.27	-13.00	26.27	23.72	Vertical

LTE Band 5 QPSK 10MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	37.88	-90.28	-68.28	-13.00	55.28	22.00	Horizontal
2	104.70	-93.10	-73.74	-13.00	60.74	19.36	Horizontal
3	443.14	-98.77	-70.21	-13.00	57.21	28.56	Horizontal
4	2038.60	-54.68	-52.97	-13.00	39.97	1.71	Horizontal
5	4784.68	-58.84	-44.33	-13.00	31.33	14.51	Horizontal
6	13682.29	-63.21	-39.37	-13.00	26.37	23.84	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	38.12	-89.32	-68.93	-13.00	55.93	20.39	Vertical
2	51.79	-91.20	-72.15	-13.00	59.15	19.05	Vertical
3	102.41	-94.51	-70.33	-13.00	57.33	24.18	Vertical
4	2040.92	-53.88	-52.16	-13.00	39.16	1.72	Vertical
5	7193.17	-59.47	-40.50	-13.00	27.50	18.97	Vertical
6	14285.71	-63.65	-38.94	-13.00	25.94	24.71	Vertical

LTE Band 7 QPSK 20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	38.48	-90.58	-68.58	-25.00	43.58	22.00	Horizontal
2	104.54	-92.70	-73.34	-25.00	48.34	19.36	Horizontal
3	163.22	-95.54	-73.89	-25.00	48.89	21.65	Horizontal
4	7441.08	-58.05	-38.36	-25.00	13.36	19.69	Horizontal
5	12769.57	-60.90	-37.85	-25.00	12.85	23.05	Horizontal
6	17315.29	-65.29	-36.41	-25.00	11.41	28.88	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	37.77	-89.95	-69.56	-25.00	44.56	20.39	Vertical
2	52.23	-91.11	-72.06	-25.00	47.06	19.05	Vertical
3	104.32	-93.81	-69.77	-25.00	44.77	24.04	Vertical
4	4988.98	-58.95	-44.71	-25.00	19.71	14.24	Vertical
5	7148.96	-61.63	-43.08	-25.00	18.08	18.55	Vertical
6	11871.09	-62.74	-39.01	-25.00	14.01	23.73	Vertical

LTE Band 12 QPSK 10MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	39.96	-84.98	-63.45	-13.00	50.45	21.53	Horizontal
2	61.62	-86.77	-67.44	-13.00	54.44	19.33	Horizontal
3	293.26	-94.06	-68.81	-13.00	55.81	25.25	Horizontal
4	5090.99	-58.98	-44.40	-13.00	31.40	14.58	Horizontal
5	7377.82	-60.67	-41.19	-13.00	28.19	19.48	Horizontal
6	13643.89	-64.09	-40.05	-13.00	27.05	24.04	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	38.10	-83.53	-63.14	-13.00	50.14	20.39	Vertical
2	63.47	-81.79	-61.39	-13.00	48.39	20.40	Vertical
3	99.31	-88.67	-64.35	-13.00	51.35	24.32	Vertical
4	297.55	-92.45	-67.16	-13.00	54.16	25.29	Vertical
5	5099.25	-58.08	-43.46	-13.00	30.46	14.62	Vertical
6	10787.24	-61.73	-39.10	-13.00	26.10	22.63	Vertical

LTE Band 17 QPSK 10MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	37.75	-83.38	-61.38	-13.00	48.38	22.00	Horizontal
2	62.35	-86.70	-67.37	-13.00	54.37	19.33	Horizontal
3	298.59	-98.07	-72.33	-13.00	59.33	25.74	Horizontal
4	4872.74	-58.52	-43.78	-13.00	30.78	14.74	Horizontal
5	7712.82	-59.39	-40.09	-13.00	27.09	19.30	Horizontal
6	17363.69	-65.88	-36.72	-13.00	23.72	29.16	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	61.67	-85.95	-65.66	-13.00	52.66	20.29	Vertical
2	102.50	-88.86	-64.68	-13.00	51.68	24.18	Vertical
3	306.48	-91.77	-66.33	-13.00	53.33	25.44	Vertical
4	3032.58	-58.00	-50.70	-13.00	37.70	7.30	Vertical
5	7637.28	-59.23	-39.73	-13.00	26.73	19.50	Vertical
6	13159.84	-62.38	-39.12	-13.00	26.12	23.26	Vertical

LTE Band 26(Part 22) QPSK 15MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	38.56	-89.33	-67.33	-13.00	54.33	22.00	Horizontal
2	109.47	-94.68	-75.15	-13.00	62.15	19.53	Horizontal
3	290.16	-95.83	-70.84	-13.00	57.84	24.99	Horizontal
4	2542.29	-54.41	-50.60	-13.00	37.60	3.81	Horizontal
5	7722.90	-60.04	-40.75	-13.00	27.75	19.29	Horizontal
6	12474.41	-62.74	-39.89	-13.00	26.89	22.85	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	37.81	-89.91	-69.52	-13.00	56.52	20.39	Vertical
2	105.33	-93.41	-69.50	-13.00	56.50	23.91	Vertical
3	630.06	-104.97	-71.92	-13.00	58.92	33.05	Vertical
4	4906.42	-59.43	-44.72	-13.00	31.72	14.71	Vertical
5	7778.09	-59.71	-40.46	-13.00	27.46	19.25	Vertical
6	12235.12	-62.83	-40.07	-13.00	27.07	22.76	Vertical

LTE Band 26(Part 90) QPSK 10MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	38.41	-87.58	-65.58	-13.00	52.58	22.00	Horizontal
2	111.99	-95.29	-75.63	-13.00	62.63	19.66	Horizontal
3	355.49	-98.03	-69.19	-13.00	56.19	28.84	Horizontal
4	2541.63	-52.69	-48.88	-13.00	35.88	3.81	Horizontal
5	5768.91	-56.50	-42.45	-13.00	29.45	14.05	Horizontal
6	11921.53	-63.25	-39.73	-13.00	26.73	23.52	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	37.92	-89.31	-68.92	-13.00	55.92	20.39	Vertical
2	51.03	-91.92	-72.93	-13.00	59.93	18.99	Vertical
3	104.18	-93.59	-69.55	-13.00	56.55	24.04	Vertical
4	2041.38	-55.37	-53.65	-13.00	40.65	1.72	Vertical
5	7585.51	-60.45	-40.82	-13.00	27.82	19.63	Vertical
6	10138.10	-61.75	-39.84	-13.00	26.84	21.91	Vertical

LTE Band 41 QPSK 20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	40.11	-92.62	-71.09	-25.00	46.09	21.53	Horizontal
2	53.71	-98.04	-78.77	-25.00	53.77	19.27	Horizontal
3	104.17	-92.69	-73.33	-25.00	48.33	19.36	Horizontal
4	2766.19	-51.58	-46.36	-25.00	21.36	5.22	Horizontal
5	10897.08	-60.34	-37.27	-25.00	12.27	23.07	Horizontal
6	17171.09	-66.20	-38.07	-25.00	13.07	28.13	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	38.16	-89.00	-68.61	-25.00	43.61	20.39	Vertical
2	51.76	-94.17	-75.12	-25.00	50.12	19.05	Vertical
3	104.16	-92.04	-68.00	-25.00	43.00	24.04	Vertical
4	2781.21	-53.77	-48.49	-25.00	23.49	5.28	Vertical
5	12238.41	-62.35	-39.60	-25.00	14.60	22.75	Vertical
6	16657.18	-65.02	-38.86	-25.00	13.86	26.16	Vertical

LTE Band 66 QPSK 20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	38.19	-89.49	-67.49	-13.00	54.49	22.00	Horizontal
2	111.07	-90.34	-70.74	-13.00	57.74	19.60	Horizontal
3	1086.73	-47.94	-49.92	-13.00	36.92	-1.98	Horizontal
4	2830.69	-56.13	-50.57	-13.00	37.57	5.56	Horizontal
5	7900.11	-61.20	-41.65	-13.00	28.65	19.55	Horizontal
6	11832.07	-63.51	-39.91	-13.00	26.91	23.60	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	64.67	-95.53	-74.96	-13.00	61.96	20.57	Vertical
2	104.35	-93.31	-69.27	-13.00	56.27	24.04	Vertical
3	1010.68	-55.81	-57.08	-13.00	44.08	-1.27	Vertical
4	3003.19	-59.76	-52.39	-13.00	39.39	7.37	Vertical
5	11937.24	-62.48	-39.20	-13.00	26.20	23.28	Vertical
6	17348.26	-65.98	-36.91	-13.00	23.91	29.07	Vertical

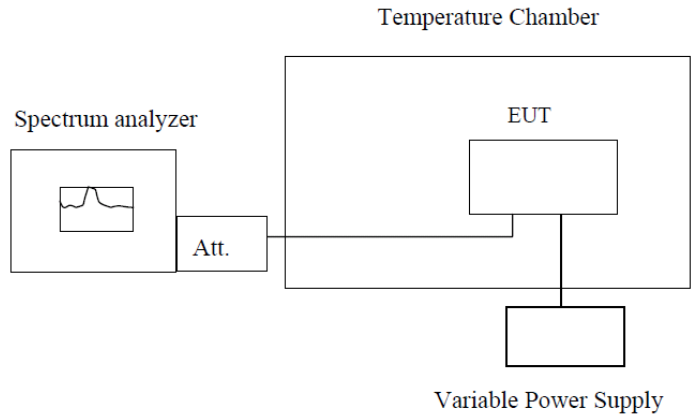
LTE Band 7C QPSK 20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	37.83	-88.35	-66.35	-25.00	41.35	22.00	Horizontal
2	110.90	-88.71	-69.11	-25.00	44.11	19.60	Horizontal
3	2034.96	-51.39	-49.70	-25.00	24.70	1.69	Horizontal
4	5012.50	-58.97	-44.73	-25.00	19.73	14.24	Horizontal
5	10994.18	-62.22	-39.51	-25.00	14.51	22.71	Horizontal
6	14268.46	-63.64	-39.05	-25.00	14.05	24.59	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	38.58	-90.24	-69.85	-25.00	44.85	20.39	Vertical
2	52.18	-92.89	-73.84	-25.00	48.84	19.05	Vertical
3	103.79	-92.74	-68.70	-25.00	43.70	24.04	Vertical
4	5089.34	-58.28	-43.71	-25.00	18.71	14.57	Vertical
5	7440.25	-60.54	-40.86	-25.00	15.86	19.68	Vertical
6	13363.66	-63.19	-39.57	-25.00	14.57	23.62	Vertical

LTE Band 41C QPSK 20MHz BW Middle Channel							
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	36.89	-91.26	-68.91	-25.00	43.91	22.35	Horizontal
2	105.88	-94.72	-75.31	-25.00	50.31	19.41	Horizontal
3	661.37	-104.44	-69.63	-25.00	44.63	34.81	Horizontal
4	2766.87	-48.80	-43.58	-25.00	18.58	5.22	Horizontal
5	11864.61	-63.85	-40.14	-25.00	15.14	23.71	Horizontal
6	17254.40	-66.06	-37.51	-25.00	12.51	28.55	Horizontal
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	38.05	-89.28	-68.89	-25.00	43.89	20.39	Vertical
2	51.53	-92.20	-73.15	-25.00	48.15	19.05	Vertical
3	103.80	-93.10	-69.06	-25.00	44.06	24.04	Vertical
4	2782.43	-51.79	-46.50	-25.00	21.50	5.29	Vertical
5	5763.21	-54.66	-40.60	-25.00	15.60	14.06	Vertical
6	12277.45	-61.96	-39.24	-25.00	14.24	22.72	Vertical

Notes:

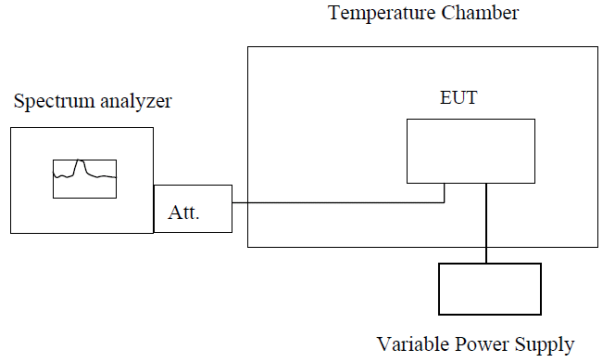
1. Level = Reading Level + Factor.
2. Margin = Limit - Level.

7.9 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part2.1055, Part 22.355, Part 24.235, Part 27.54, Part 90.213 (a)
Test Method:	FCC Part2.1055
Limit:	2.5ppm
Test setup:	 Note : Measurement setup for testing on Antenna connector
Test procedure:	1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to –20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for LTE.

7.10 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part2.1055, Part 22.355, Part 24.235, Part 27.54, Part 90.213 (a)
Test Method:	FCC Part2.1055
Limit:	2.5ppm
Test setup:	 Note : Measurement setup for testing on Antenna connector
Test procedure:	1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. 3. Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 7.1 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for LTE.

8 Test setup photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

-----End-----