



FCC RF Test Report

APPLICANT : OnePlus Technology (Shenzhen) Co., Ltd
EQUIPMENT : Smart Phone
BRAND NAME : ONEPLUS
MODEL NAME : IN2015
FCC ID : 2ABZ2-EE103
STANDARD : 47 CFR Part 2, 27(F), 27(H), 27(M), 27(N)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Nov. 20, 2019 and completely tested on Jan. 04, 2020. We, Sporton International (ShenZhen) Inc., 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 (ShenZhen) Inc., the test report shall not be reproduced except in full.

Reviewed by: Derreck Chen / Supervisor

Approved by: Eric Shih / Manager



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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG9N2025-02C	Rev. 01	Initial issue of report	Mar. 19, 2020



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 17) (Band 71)	ERP < 3 Watt		
	§27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 7) (Band 38) (Band 41)	EIRP < 2Watt		
3.5	N/A	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §27.53(c)(2)(4) §27.53(g)	Conducted Band Edge Measurement (Band 12) (Band 13) (Band 17) (Band 71)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)	§27.53(m)(4)		
3.8	§2.1051 §27.53(c)(2) §27.53(g)	Conducted Spurious Emission (Band 12) (Band 13) (Band 17) (Band 71)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log ₁₀ (P[Watts])		
3.9	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within Authorized Band	PASS	-
4.4	§2.1053 §27.53(c)(2) §27.53(f) §27.53(g)	Radiated Spurious Emission (Band 12) (Band 13) (Band 17) (Band 71)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 28.04 dB at 10722.36 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log ₁₀ (P[Watts])		

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

OnePlus Technology (Shenzhen) Co., Ltd

18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen

1.2 Manufacturer

OnePlus Technology (Shenzhen) Co., Ltd

18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart Phone
Brand Name	ONEPLUS
Model Name	IN2015
FCC ID	2ABZ2-EE103
EUT supports Radios application	CDMA/GSM/WCDMA/LTE/5G NR WLAN 2.4GHz 802.11b/g/n (HT20) WLAN 2.4GHz 802.11ax (HE20/HE40) WLAN 5GHz 802.11a/n/ac (HT20/HT40/VHT20/VHT40/VHT80) WLAN 5GHz 802.11ax (HE20/HE40/HE80) Bluetooth BR / EDR / LE GNSS/NFC
IMEI Code	Conducted : 990015750022220 Radiation : 001003902672834
HW Version	15
SW Version	Oxygen OS 10.5.IN21AA
EUT Stage	Production Unit

Remark: This is a variant report, the difference is to change the model name and SW version for market segment. The change has no influence on the test results, all the test results are leveraged from original report FG9N2025-01C.



1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz LTE Band 12 : 699.7 MHz ~ 715.3 MHz LTE Band 13 : 779.5 MHz ~ 784.5 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz LTE Band 71: 665.5 MHz ~ 695.5MHz
Rx Frequency	LTE Band 7 : 2622.5MHz ~ 2687.5 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz LTE Band 71: 619.5 MHz ~ 649.5MHz
Bandwidth	LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 71 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	Bottom Antenna: LTE Band 7 : 23.56 dBm LTE Band 12 : 22.94 dBm LTE Band 13 : 22.92 dBm LTE Band 17 : 22.96 dBm LTE Band 38 : 23.46 dBm LTE Band 41 : 25.72 dBm; Band 41C_CA : 24.94 dBm LTE Band 71 : 23.65 dBm
Antenna Gain	Top Antenna: LTE Band 7 : -2.00 dBi LTE Band 12 : -3.00 dBi LTE Band 13 : -3.00 dBi LTE Band 17 : -3.00 dBi LTE Band 38 : -2.00 dBi LTE Band 41 : -2.00 dBi LTE Band 71 : -3.00 dBi Bottom Antenna: LTE Band 7 : -2.00 dBi LTE Band 12 : -2.00 dBi LTE Band 13 : -2.00 dBi LTE Band 17 : -2.00 dBi LTE Band 38 : -2.00 dBi LTE Band 41 : -2.00 dBi LTE Band 71 : -2.00 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

Note:

1. The maximum ERP/EIRP is calculated from max output power and max antenna gain, only the maximum ERP/EIRP of Bottom Antenna is shown on the report.



2. LTE Band 41 supports HPUE

1.5 Modification of EUT

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

1.6 Maximum ERP/EIRP, Frequency Tolerance, and Emission Designator

LTE Band 7		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2502.5 ~ 2567.5	4M50G7D	-	0.1390	4M51W7D	-	0.1259
10	2505.0 ~ 2565.0	9M07G7D	0.0075	0.1365	9M01W7D	-	0.1189
15	2507.5 ~ 2562.5	13M5G7D	-	0.1429	13M5W7D	-	0.1321
20	2510.0 ~ 2560.0	17M9G7D	-	0.1432	17M9W7D	-	0.1189
LTE Band 7		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)		Maximum EIRP(W)		
5	2502.5 ~ 2567.5	4M49W7D	-		0.0863		
10	2505.0 ~ 2565.0	9M03W7D	-		0.0857		
15	2507.5 ~ 2562.5	13M5W7D	-		0.0887		
20	2510.0 ~ 2560.0	17M9W7D	-		0.0899		
LTE Band 12		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	699.7 ~ 715.3	1M10G7D	-	0.0753	1M09W7D	-	0.0673
3	700.5 ~ 714.5	2M72G7D	-	0.0755	2M73W7D	-	0.0619
5	701.5 ~ 713.5	4M50G7D	-	0.0755	4M50W7D	-	0.0692
10	704.0 ~ 711.0	9M03G7D	0.0068	0.0757	9M01W7D	-	0.0652
LTE Band 12		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)		Maximum ERP(W)		
1.4	699.7 ~ 715.3	1M09W7D	-		0.0500		
3	700.5 ~ 714.5	2M72W7D	-		0.0506		
5	701.5 ~ 713.5	4M50W7D	-		0.0500		
10	704.0 ~ 711.0	9M05W7D	-		0.0504		



LTE Band 13		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	779.5 ~ 784.5	4M50G7D	-	0.0752	4M49W7D	-	0.0676
10	782.0	8M99G7D	0.0086	0.0753	9M01W7D	-	0.0693
LTE Band 13		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)		Maximum ERP(W)		
5	779.5 ~ 784.5	4M50W7D	-		0.0482		
10	782.0	8M95W7D	-		0.0476		
LTE Band 17		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	706.5 ~ 713.5	4M50G7D	-	0.0759	4M51W7D	-	0.0667
10	709.0 ~ 711.0	9M09G7D	0.0039	0.0760	9M03W7D	-	0.0697
LTE Band 17		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)		Maximum ERP(W)		
5	706.5 ~ 713.5	4M52W7D	-		0.0502		
10	709.0 ~ 711.0	9M03W7D	-		0.0508		
LTE Band 38		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2572.5 ~ 2617.5	4M51G7D	-	0.1324	4M51W7D	-	0.1079
10	2575.0 ~ 2615.0	9M09G7D	0.0062	0.1371	9M05W7D	-	0.1125
15	2577.5 ~ 2612.5	13M5G7D	-	0.1396	13M5W7D	-	0.1159
20	2580.0 ~ 2610.0	17M9G7D	-	0.1400	17M9W7D	-	0.1172
LTE Band 38		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)		Maximum EIRP(W)		
5	2572.5 ~ 2617.5	4M50W7D	-		0.0824		
10	2575.0 ~ 2615.0	9M07W7D	-		0.0830		
15	2577.5 ~ 2612.5	13M5W7D	-		0.0859		
20	2580.0 ~ 2610.0	17M9W7D	-		0.0873		



LTE Band 41		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2498.5 ~ 2687.5	4M50G7D	-	0.2270	4M51W7D	-	0.1945
10	2501.0 ~ 2685.0	9M07G7D	0.0151	0.2239	9M03W7D	-	0.1950
15	2503.5 ~ 2682.5	13M5G7D	-	0.2317	13M5W7D	-	0.2018
20	2506.0 ~ 2680.0	17M9G7D	-	0.2355	17M9W7D	-	0.2009
LTE Band 41		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)		Maximum EIRP(W)		
5	2498.5 ~ 2687.5	4M50W7D	-		0.1393		
10	2501.0 ~ 2685.0	9M09W7D	-		0.1432		
15	2503.5 ~ 2682.5	13M6W7D	-		0.1462		
20	2506.0 ~ 2680.0	17M9W7D	-		0.1462		
LTE Band 71		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	665.5 ~ 695.5	4M51G7D	-	0.0867	4M51W7D	-	0.0689
10	668.0 ~ 693.0	9M03G7D	0.0051	0.0861	9M05W7D	-	0.0721
15	670.5 ~ 690.5	13M5G7D	-	0.0883	13M4W7D	-	0.0729
20	673.0 ~ 688.0	17M9G7D	-	0.0891	17M9W7D	-	0.0711
LTE Band 71		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)		Maximum ERP(W)		
5	665.5 ~ 695.5	4M50W7D	-		0.0546		
10	668.0 ~ 693.0	9M03W7D	-		0.0560		
15	670.5 ~ 690.5	13M5W7D	-		0.0582		
20	673.0 ~ 688.0	17M9W7D	-		0.0573		



LTE Band 41 CA	QPSK			16QAM		
BW (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
20MHz+20MHz	37M6G7D	-	0.1968	37M5W7D	-	0.1545
LTE Band 41 CA	64QAM					
BW (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)			
20MHz+20MHz	37M7W7D	-		0.1167		



1.7 Testing Location

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

Test Firm	Sporton International (Shenzhen) Inc.		
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 (Shenzhen) Inc.		
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan Shenzhen, 518055 People's Republic of China TEL: +86-755-33202398		
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 Applicable Standards

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

- ♦ 47 CFR Part 2, 27(F), 27(H), 27(M), 27(N)
- ♦ ANSI C63.26-2015
- ♦ FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



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.

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v
	17	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	71	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	7	-	-				v	v	v	v	v		v	v	v	v
	12				v	-	-	v	v	v	v		v	v	v	v
	13	-	-		v	-	-	v	v	v	v		v	v	v	v
	17	-	-		v	-	-	v	v	v	v		v	v	v	v
	38	-	-				v	v	v	v	v		v	v	v	v
	41	-	-				v	v	v	v	v		v	v	v	v
	71	-	-				v	v	v	v	v		v	v	v	v
26dB and 99% Bandwidth	7	-	-	v	v	v	v	v	v	v			v	v	v	v
	12	v	v	v	v	-	-	v	v	v			v	v	v	v
	13	-	-	v	v	-	-	v	v	v			v	v	v	v
	17	-	-	v	v	-	-	v	v	v			v	v	v	v
	38	-	-	v	v	v	v	v	v	v			v	v	v	v
	41	-	-	v	v	v	v	v	v	v			v	v	v	v
	71	-	-	v	v	v	v	v	v	v			v	v	v	v



Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Conducted Band Edge	7	-	-	v	v	v	v	v	v	v	v		v	v		v
	12	v	v	v	v	-	-	v	v	v	v		v	v		v
	13	-	-	v	v	-	-	v	v	v	v		v	v		v
	17	-	-	v	v	-	-	v	v	v	v		v	v		v
	38	-	-	v	v	v	v	v	v	v	v		v	v		v
	41	-	-	v	v	v	v	v	v	v	v		v	v		v
	71	-	-	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	12	v	v	v	v	-	-	v	v	v	v			v	v	v
	13	-	-	v	v	-	-	v	v	v	v			v	v	v
	17	-	-	v	v	-	-	v	v	v	v			v	v	v
	38	-	-	v	v	v	v	v	v	v	v			v	v	v
	41	-	-	v	v	v	v	v	v	v	v			v	v	v
	71	-	-	v	v	v	v	v	v	v	v			v	v	v
Frequency Stability	7	-	-		v			v					v		v	
	12				v	-	-	v					v		v	
	13	-	-		v	-	-	v					v		v	
	17	-	-		v	-	-	v					v		v	
	38	-	-		v			v					v		v	
	41	-	-		v			v					v		v	
	71	-	-		v			v					v		v	

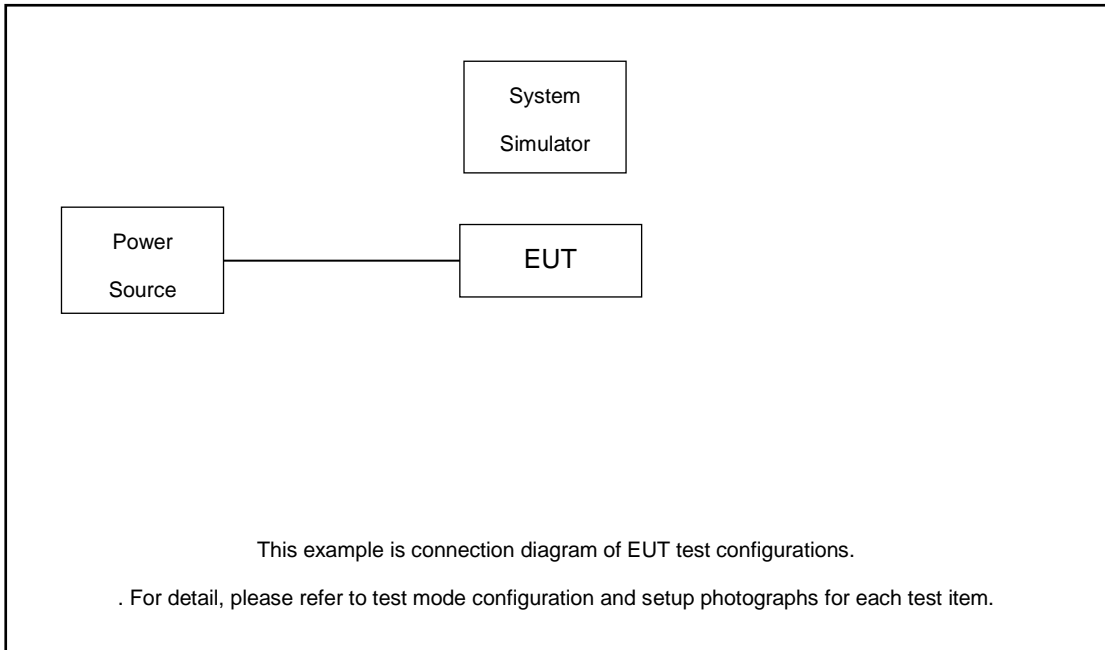


Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel			
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H	
E.R.P / E.I.R.P	7	-	-	v	v	v	v	v	v	v	v	v			v	v	v
	12	v	v	v	v	-	-	v	v	v	v	v			v	v	v
	13	-	-	v	v	-	-	v	v	v	v	v			v	v	v
	17	-	-	v	v	-	-	v	v	v	v	v			v	v	v
	38	-	-	v	v	v	v	v	v	v	v	v			v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v			v	v	v
	71	-	-	v	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	7	-	-	v	v	v	v	v						v	v	v	v
	12	v	v	v	v	-	-	v						v	v	v	v
	13	-	-	v	v	-	-	v						v	v	v	v
	17	-	-	v	v	-	-	v						v	v	v	v
	38	-	-	v	v	v	v	v						v	v	v	v
	41	-	-	v	v	v	v	v						v	v	v	v
	71	-	-	v	v	v	v	v						v	v	v	v
Note	<ol style="list-style-type: none"> The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. 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. 																



Test Items	Band	Bandwidth (MHz)										Modulation			RB #			Test Channel			
		20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	15+10	10+15	QPSK	16QAM	64QAM	1	Half	Full	L	M	H	
Max. Output Power	41C_CA	v										v	v	v	v	v	v	v	v	v	
26dB and 99% Bandwidth	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v	v	
Conducted Band Edge	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v		v	v			v	
Conducted Spurious Emission	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v					v	v	v
E.I.R.P.	41C_CA	v											v	v	v			v	v	v	
Radiated Spurious Emission	41C_CA	v										v					v	v	v	v	
Note	<ol style="list-style-type: none"> The mark "v " means that this configuration is chosen for testing The mark "- " means that this bandwidth is not supported. 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.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GWINSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4 dB and 10dB attenuator.

Example :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 4 + 10 = 14 \text{ (dB)}
 \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

LTE Band 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5

LTE Band 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3

LTE Band 13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	23230	-
	Frequency	-	782	-
5	Channel	23205	23230	23255
	Frequency	779.5	782	784.5



LTE Band 17 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23780	23790	23800
	Frequency	709	710	711
5	Channel	23755	23790	23825
	Frequency	706.5	710	713.5

LTE Band 38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	37850	38000	38150
	Frequency	2580	2595	2610
15	Channel	37825	38000	38175
	Frequency	2577.5	2595	2612.5
10	Channel	37800	38000	38200
	Frequency	2575	2595	2615
5	Channel	37775	38000	38225
	Frequency	2572.5	2595	2617.5

LTE Band 41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	39750	40620	41490
	Frequency	2506	2593	2680
15	Channel	39725	40620	41515
	Frequency	2503.5	2593	2682.5
10	Channel	39700	40620	41540
	Frequency	2501	2593	2685
5	Channel	39675	40620	41565
	Frequency	2498.5	2593	2687.5



LTE Band 71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	133222	133322	133372
	Frequency	673.0	680.5	688.0
15	Channel	133197	133297	133397
	Frequency	670.5	680.5	690.5
10	Channel	133172	133272	133422
	Frequency	668.0	678.0	693.0
5	Channel	133147	133247	133447
	Frequency	665.5	675.5	695.5

LTE Band 41C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest	
20 + 20	PCC	Channel	39750	40521	41292
		Frequency	2506.0	2583.1	2660.2
	SCC	Channel	39948	40719	41490
		Frequency	2525.8	2602.9	2680.0
20 + 15	PCC	Channel	39750	40546	41341
		Frequency	2506.0	2585.6	2665.1
	SCC	Channel	39921	40717	41512
		Frequency	2523.1	2602.7	2682.2
15 + 20	PCC	Channel	39728	40523	41319
		Frequency	2503.8	2593.3	2662.9
	SCC	Channel	39899	40694	41490
		Frequency	2520.9	2600.4	2680.0
20 + 10	PCC	Channel	39750	40571	41391
		Frequency	2506.0	2588.1	2670.1
	SCC	Channel	39894	40715	41535
		Frequency	2520.4	2602.5	2684.5
10 + 20	PCC	Channel	39705	40526	41346
		Frequency	2501.5	2583.6	2665.6
	SCC	Channel	39849	40670	41490
		Frequency	2515.9	2598.0	2680.0



LTE Band 41C_CA Channel and Frequency List					
20 + 5	PCC	Channel	39750	40595	41440
		Frequency	2506.0	2590.5	2675.0
	SCC	Channel	39867	40712	41557
		Frequency	2517.7	2602.2	2686.7
5 + 20	PCC	Channel	39683	40528	41373
		Frequency	2499.3	2583.8	2668.3
	SCC	Channel	39800	40645	41490
		Frequency	2511.0	2595.5	2680.0
15 + 15	PCC	Channel	39725	40545	41365
		Frequency	2503.5	2585.5	2667.5
	SCC	Channel	39875	40695	41515
		Frequency	2518.5	2600.5	2682.5
10 + 15	PCC	Channel	39703	40549	41395
		Frequency	2501.3	2585.9	2670.5
	SCC	Channel	39823	40669	41515
		Frequency	2513.3	2597.9	2682.5
15 + 10	PCC	Channel	39725	40571	41417
		Frequency	2503.5	2588.1	2672.7
	SCC	Channel	39845	40691	41537
		Frequency	2515.5	2600.1	2684.7

3 Conducted Test Items

3.1 Measuring Instruments

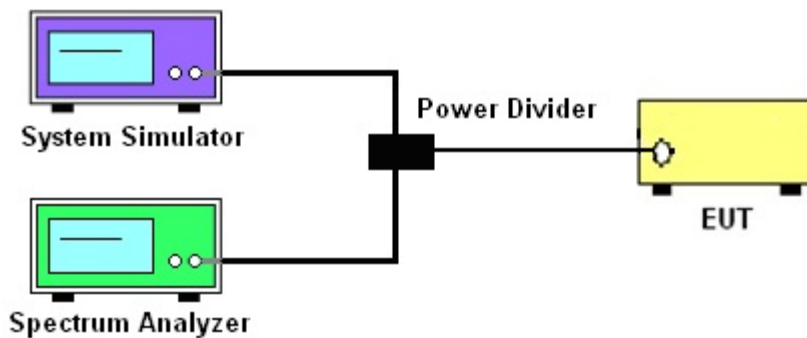
See list of measuring instruments of this test report.

3.2 Test Setup

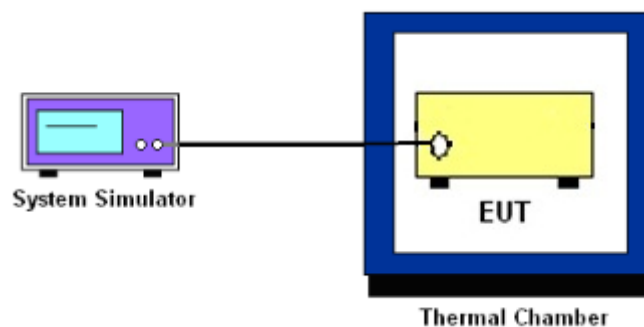
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.



3.4 Conducted Output Power and ERP/EIRP

3.4.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

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

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12, Band 13 and Band 17 and Band 71.

The EIRP of mobile transmitters must not exceed 2 Watts for Band 7 and Band 38 and Band 41.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, 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

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 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. 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.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.3.4 (CCDF).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.



3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.6.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

27.53 (c)

For operations in the 776-788 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power P(Watts) in a 100 kHz bandwidth. 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. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least $65 + 10 \log_{10} p(\text{watts})$, dB, for mobile and portable equipment.

27.53 (g)

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power P(Watts) in a 100 kHz bandwidth. 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.

27.53(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.



3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW \geq 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)} = -13\text{dBm}.$$

9. For LTE Band 7, 38, 41, the other 40 dB, and 55 dB have additionally applied same calculation above.



3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7,38,41:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.
11. For Band 7, 38, 41
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [55 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
 $= -25$ dBm.



3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.9.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5
2. The EUT was placed in a temperature chamber at $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

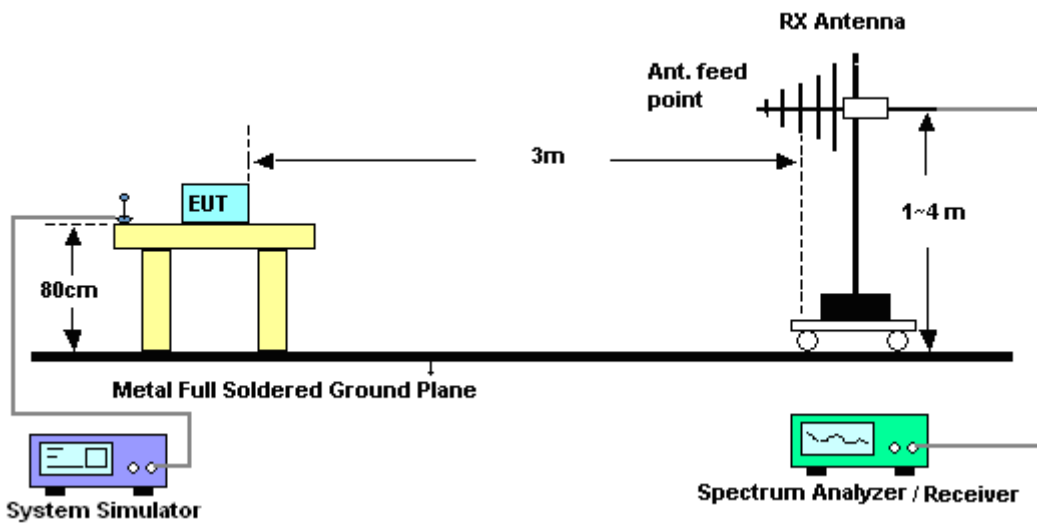
4 Radiated Test Items

4.1 Measuring Instruments

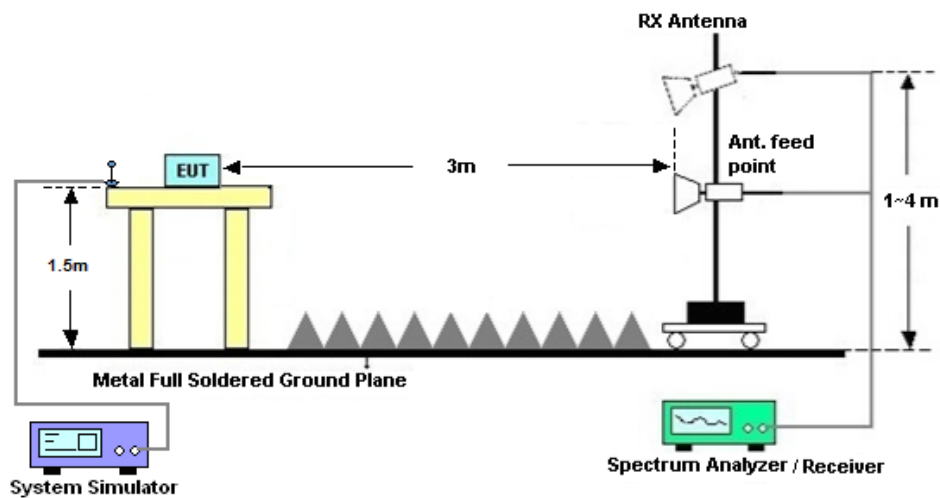
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.



4.4 Radiated Spurious Emission

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 $43 + 10 \log (P)$ dB.

For Band 7, 38, 41

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 $55 + 10 \log (P)$ dB.

For LTE Band 13

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.

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
2. 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.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. $EIRP (dBm) = S.G. Power - Tx Cable Loss + Tx Antenna Gain$
11. $ERP (dBm) = EIRP - 2.15$
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] (dB)$
 $= [30 + 10\log(P)] (dBm) - [43 + 10\log(P)] (dB)$
 $= -13dBm.$

13. For Band 7, 38, 41:

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)



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. 18, 2019	Nov. 29, 2019~Jan. 04, 2020	Apr. 17, 2020	Conducted (TH01-SZ)
DC Power Supply	GWINSTEK	AnritsuGPS-3030D	EM882636	Max 30V	Apr. 18, 2019	Nov. 29, 2019~Jan. 04, 2020	Apr. 17, 2020	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Nov. 26, 2019	Nov. 29, 2019~Jan. 04, 2020	Nov. 25, 2020	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Apr. 19, 2019	Dec. 30, 2019	Apr. 18, 2020	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Jul. 19, 2019	Dec. 30, 2019	Jul. 18, 2020	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1285	1GHz~18GHz	Jan. 07, 2019	Dec. 30, 2019	Jan. 06, 2020	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 22, 2019	Dec. 30, 2019	Jul. 21, 2020	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 18, 2019	Dec. 30, 2019	Apr. 17, 2020	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 18, 2019	Dec. 30, 2019	Oct. 17, 2020	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 18, 2019	Dec. 30, 2019	Oct. 17, 2020	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010002470	N/A	NCR	Dec. 30, 2019	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Dec. 30, 2019	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Dec. 30, 2019	NCR	Radiation (03CH02-SZ)

NCR: No Calibration Required.



6 Uncertainty of Evaluation

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 Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.3dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.7dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

Bottom Antenna

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.56	23.46	23.37
20	1	49		23.55	23.47	23.38
20	1	99		23.54	23.50	23.34
20	50	0		22.62	22.58	22.38
20	50	24		22.67	22.61	22.39
20	50	50		22.64	22.60	22.42
20	100	0		22.57	22.54	22.30
20	1	0	16-QAM	22.60	22.48	22.40
20	1	49		22.73	22.52	22.27
20	1	99		22.75	22.49	22.39
20	50	0		21.64	21.58	21.46
20	50	24		21.59	21.61	21.56
20	50	50		21.71	21.55	21.51
20	100	0		21.51	21.46	21.39
20	1	0	64-QAM	21.38	21.42	21.38
20	1	49		21.46	21.50	21.34
20	1	99		21.54	21.47	21.33
20	50	0		20.35	20.33	20.30
20	50	24		20.35	20.35	20.31
20	50	50		20.36	20.33	20.29
20	100	0		20.29	20.25	20.22
15	1	0	QPSK	23.46	23.45	23.33
15	1	37		23.54	23.53	23.29
15	1	74		23.55	23.50	23.29
15	36	0		22.64	22.60	22.48
15	36	20		22.67	22.60	22.54
15	36	39		22.71	22.54	22.50
15	75	0		22.62	22.62	22.44



15	1	0	16-QAM	23.07	23.08	22.88
15	1	37		23.12	23.03	22.76
15	1	74		23.21	23.10	22.78
15	36	0		21.74	21.59	21.58
15	36	20		21.74	21.61	21.50
15	36	39		21.67	21.51	21.47
15	75	0		21.66	21.61	21.40
15	1	0	64-QAM	21.33	21.35	21.36
15	1	37		21.43	21.48	21.40
15	1	74		21.43	21.34	21.26
15	36	0		20.36	20.36	20.32
15	36	20		20.38	20.37	20.30
15	36	39		20.36	20.39	20.31
15	75	0		20.29	20.28	20.24



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.11	23.35	23.10
10	1	25		23.19	23.15	22.91
10	1	49		23.32	23.15	22.99
10	25	0		22.40	22.46	22.25
10	25	12		22.47	22.45	22.19
10	25	25		22.50	22.36	22.23
10	50	0		22.43	22.21	22.16
10	1	0	16-QAM	22.63	22.57	22.34
10	1	25		22.71	22.61	22.39
10	1	49		22.75	22.74	22.41
10	25	0		21.37	21.43	21.13
10	25	12		21.47	21.39	21.30
10	25	25		21.33	21.40	21.12
10	50	0		21.50	21.33	21.18
10	1	0	64-QAM	21.16	21.30	21.12
10	1	25		21.23	21.33	21.15
10	1	49		21.21	21.28	21.19
10	25	0		20.05	20.18	20.00
10	25	12		20.12	20.23	20.07
10	25	25		20.05	20.12	20.01
10	50	0		20.03	20.08	19.98
5	1	0	QPSK	23.31	23.27	23.09
5	1	12		23.43	23.28	23.13
5	1	24		23.37	23.38	23.08
5	12	0		22.47	22.48	22.19
5	12	7		22.49	22.47	22.14
5	12	13		22.42	22.43	22.21
5	25	0		22.49	22.40	22.20
5	1	0	16-QAM	23.00	22.95	22.68
5	1	12		22.99	22.90	22.64
5	1	24		22.95	22.93	22.69
5	12	0		21.49	21.53	21.29
5	12	7		21.56	21.57	21.24



5	12	13	64-QAM	21.45	21.54	21.18
5	25	0		21.51	21.46	21.09
5	1	0		21.16	21.36	21.18
5	1	12		21.15	21.36	21.02
5	1	24		21.17	21.31	20.97
5	12	0		20.09	20.20	20.01
5	12	7		20.13	20.25	19.90
5	12	13		20.03	20.24	19.90
5	25	0		20.00	20.21	19.81



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.92	22.71	22.79
10	1	25		22.88	22.94	22.64
10	1	49		22.78	22.81	22.75
10	25	0		21.89	21.90	21.85
10	25	12		22.08	22.10	22.05
10	25	25		21.97	22.04	21.98
10	50	0		21.89	21.95	21.83
10	1	0	16-QAM	22.29	22.08	22.25
10	1	25		22.23	22.09	22.08
10	1	49		22.19	22.19	22.15
10	25	0		20.97	20.90	20.91
10	25	12		21.07	21.06	21.08
10	25	25		21.06	21.08	20.98
10	50	0		21.02	20.86	20.86
10	1	0	64-QAM	21.07	21.03	21.09
10	1	25		21.09	21.11	21.11
10	1	49		21.16	21.17	21.11
10	25	0		19.88	19.85	19.86
10	25	12		20.00	19.97	20.00
10	25	25		19.97	19.98	19.96
10	50	0		19.96	19.87	19.88
5	1	0	QPSK	22.88	22.78	22.86
5	1	12		22.90	22.91	22.92
5	1	24		22.93	22.93	22.92
5	12	0		22.07	21.96	21.92
5	12	7		22.04	22.05	21.98
5	12	13		22.01	21.98	21.98
5	25	0		22.06	21.91	21.91
5	1	0	16-QAM	22.42	22.36	22.25
5	1	12		22.06	22.49	22.31
5	1	24		22.55	22.31	22.31
5	12	0		21.08	20.93	20.91
5	12	7		21.05	21.02	20.92



5	12	13	64-QAM	21.03	20.96	20.91
5	25	0		21.07	20.91	20.91
5	1	0		21.11	21.08	21.01
5	1	12		21.08	21.13	21.08
5	1	24		21.14	21.13	21.07
5	12	0		20.01	20.02	19.99
5	12	7		20.03	20.06	19.98
5	12	13		20.02	20.05	19.99
5	25	0		19.99	19.96	19.89



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.92	22.89	22.90
3	1	8		22.91	22.93	22.90
3	1	14		22.93	22.92	22.81
3	8	0		22.01	21.93	21.97
3	8	4		22.05	21.96	21.95
3	8	7		22.00	22.00	21.93
3	15	0		22.04	21.93	22.02
3	1	0	16-QAM	21.97	21.88	22.07
3	1	8		21.98	21.99	21.93
3	1	14		21.98	21.88	22.07
3	8	0		21.21	21.12	21.06
3	8	4		21.15	21.18	21.08
3	8	7		21.13	21.14	21.04
3	15	0		21.12	21.05	21.07
3	1	0	64-QAM	21.14	21.10	21.06
3	1	8		21.19	21.18	21.08
3	1	14		21.13	21.16	21.02
3	8	0		20.08	20.01	19.95
3	8	4		20.06	20.08	19.97
3	8	7		20.00	20.05	19.94
3	15	0		20.02	19.93	19.94
1.4	1	0	QPSK	22.88	22.77	22.75
1.4	1	3		22.90	22.83	22.78
1.4	1	5		22.82	22.79	22.74
1.4	3	0		22.87	22.79	22.70
1.4	3	1		22.89	22.78	22.75
1.4	3	3		22.92	22.82	22.77
1.4	6	0		21.95	21.83	21.86
1.4	1	0	16-QAM	22.11	21.99	22.38
1.4	1	3		22.27	22.17	22.43
1.4	1	5		22.18	22.12	22.23
1.4	3	0		21.98	21.92	21.83
1.4	3	1		22.03	21.92	21.83



1.4	3	3	64-QAM	21.97	21.90	21.75
1.4	6	0		21.06	20.89	20.94
1.4	1	0		21.07	20.99	21.00
1.4	1	3		21.11	21.14	21.02
1.4	1	5		21.05	21.09	20.95
1.4	3	0		21.06	20.97	20.96
1.4	3	1		21.12	21.03	20.99
1.4	3	3		21.09	21.04	20.96
1.4	6	0		19.93	19.84	19.81



LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK		22.92	
10	1	25			22.90	
10	1	49			22.84	
10	25	0			22.01	
10	25	12			22.03	
10	25	25			22.00	
10	50	0			21.94	
10	1	0	16-QAM	-	22.56	-
10	1	25			22.55	
10	1	49			22.45	
10	25	0			20.91	
10	25	12			20.93	
10	25	25			20.98	
10	50	0			20.91	
10	1	0	64-QAM		20.84	
10	1	25			20.93	
10	1	49			20.88	
10	25	0			19.73	
10	25	12			19.79	
10	25	25			19.81	
10	50	0			19.70	
5	1	0	QPSK	22.91	22.90	22.84
5	1	12		22.89	22.89	22.90
5	1	24		22.91	22.91	22.82
5	12	0		22.08	22.06	22.00
5	12	7		22.15	22.08	22.08
5	12	13		22.12	22.12	22.07
5	25	0		21.98	21.96	21.91
5	1	0	16-QAM	22.15	22.02	22.45
5	1	12		22.09	22.40	22.39
5	1	24		22.18	22.13	22.09
5	12	0		21.19	21.18	20.95
5	12	7		21.14	21.12	21.07



5	12	13		21.13	21.07	21.04
5	25	0		21.12	21.00	20.90
5	1	0	64-QAM	20.62	20.91	20.82
5	1	12		20.98	20.93	20.81
5	1	24		20.96	20.86	20.86
5	12	0		19.91	19.78	19.77
5	12	7		19.92	19.85	19.86
5	12	13		19.86	19.84	19.82
5	25	0		19.79	19.77	19.77



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.85	22.96	22.89
10	1	25		22.83	22.87	22.95
10	1	49		22.88	22.95	22.91
10	25	0		22.00	22.01	22.00
10	25	12		22.06	22.09	22.01
10	25	25		22.04	21.91	21.96
10	50	0		21.98	22.04	22.02
10	1	0	16-QAM	22.26	22.50	22.57
10	1	25		22.20	22.56	22.57
10	1	49		22.19	22.42	22.58
10	25	0		21.05	21.04	21.10
10	25	12		21.21	20.93	21.05
10	25	25		21.11	21.08	21.03
10	50	0		20.99	21.08	21.02
10	1	0	64-QAM	21.12	21.06	20.99
10	1	25		21.15	21.21	21.11
10	1	49		21.16	21.11	21.09
10	25	0		19.98	19.97	19.96
10	25	12		20.09	20.03	19.99
10	25	25		20.03	19.95	19.93
10	50	0		19.97	19.99	19.99
5	1	0	QPSK	22.93	22.95	22.83
5	1	12		22.94	22.95	22.89
5	1	24		22.95	22.91	22.75
5	12	0		22.02	22.02	21.94
5	12	7		22.04	22.01	22.05
5	12	13		22.08	21.96	21.93
5	25	0		22.10	22.06	22.07
5	1	0	16-QAM	22.34	22.23	22.23
5	1	12		22.37	22.39	22.16
5	1	24		22.38	22.22	22.20
5	12	0		21.02	20.98	20.91
5	12	7		21.04	20.98	20.98



5	12	13	64-QAM	21.08	20.97	20.87
5	25	0		21.02	20.96	20.96
5	1	0		21.11	21.06	21.07
5	1	12		21.10	21.11	21.06
5	1	24		21.16	21.06	21.01
5	12	0		20.04	19.99	20.01
5	12	7		20.09	20.04	20.00
5	12	13		20.11	20.03	19.98
5	25	0		20.03	19.99	19.94



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.37	23.37	23.32
20	1	49		23.43	23.41	23.36
20	1	99		23.46	23.36	23.32
20	50	0		22.35	22.34	22.38
20	50	24		22.57	22.53	22.48
20	50	50		22.49	22.46	22.41
20	100	0		22.47	22.38	22.39
20	1	0	16-QAM	22.40	22.51	22.55
20	1	49		22.55	22.46	22.36
20	1	99		22.69	22.55	22.49
20	50	0		21.33	21.50	21.30
20	50	24		21.59	21.61	21.25
20	50	50		21.51	21.44	21.32
20	100	0		21.43	21.42	21.36
20	1	0	64-QAM	21.11	21.06	21.08
20	1	49		21.25	21.11	21.10
20	1	99		21.41	21.00	20.98
20	50	0		20.10	19.99	19.99
20	50	24		20.22	20.06	20.06
20	50	50		20.17	20.05	19.97
20	100	0		20.20	20.04	20.01
15	1	0	QPSK	23.37	23.38	23.31
15	1	37		23.27	23.45	23.40
15	1	74		23.45	23.40	23.28
15	36	0		22.36	22.48	22.30
15	36	20		22.51	22.51	22.47
15	36	39		22.48	22.49	22.38
15	75	0		22.40	22.49	22.40
15	1	0	16-QAM	22.49	22.51	22.60
15	1	37		22.43	22.42	22.55
15	1	74		22.64	22.47	22.43
15	36	0		21.23	21.43	21.30
15	36	20		21.50	21.46	21.40



15	36	39	64-QAM	21.42	21.42	21.29
15	75	0		21.47	21.46	21.33
15	1	0		21.17	21.07	21.12
15	1	37		21.34	21.07	21.08
15	1	74		21.33	20.94	20.88
15	36	0		20.15	20.10	19.97
15	36	20		20.30	20.08	19.99
15	36	39		20.20	20.03	20.01
15	75	0		20.16	20.02	20.03



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.90	23.09	22.93
10	1	25		23.17	23.21	23.37
10	1	49		22.95	22.99	22.95
10	25	0		22.15	22.19	22.21
10	25	12		22.09	22.14	22.21
10	25	25		22.18	22.28	22.41
10	50	0		22.17	22.18	22.09
10	1	0	16-QAM	22.02	22.11	22.27
10	1	25		22.34	22.39	22.51
10	1	49		22.13	22.37	22.18
10	25	0		21.12	21.31	21.12
10	25	12		21.29	21.43	21.23
10	25	25		21.31	21.36	21.52
10	50	0		21.12	21.17	21.15
10	1	0	64-QAM	20.79	20.93	20.91
10	1	25		21.08	21.19	20.85
10	1	49		20.87	20.99	20.92
10	25	0		19.93	19.82	19.79
10	25	12		20.12	19.96	19.90
10	25	25		20.11	19.83	19.82
10	50	0		20.00	19.80	19.75
5	1	0	QPSK	23.02	23.20	22.96
5	1	12		23.13	23.22	23.04
5	1	24		23.08	23.15	23.03
5	12	0		22.07	22.26	22.13
5	12	7		22.16	22.31	22.16
5	12	13		22.28	22.23	22.15
5	25	0		22.25	22.32	22.14
5	1	0	16-QAM	22.13	22.27	22.21
5	1	12		22.21	22.32	22.20
5	1	24		22.31	22.33	22.23
5	12	0		21.06	21.16	21.10
5	12	7		21.24	21.30	21.17



5	12	13		21.21	21.22	21.15
5	25	0		21.18	21.33	21.16
5	1	0	64-QAM	20.94	20.86	20.76
5	1	12		21.16	20.96	20.89
5	1	24		21.05	20.93	20.82
5	12	0		19.96	19.84	19.89
5	12	7		20.15	19.95	19.93
5	12	13		20.05	19.87	19.91
5	25	0		20.09	19.86	19.85



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	25.64	25.23	25.18
20	1	49		25.65	25.72	25.56
20	1	99		25.68	25.62	25.31
20	50	0		24.84	24.68	24.56
20	50	24		24.86	24.89	24.72
20	50	50		24.82	24.85	24.73
20	100	0		24.74	24.76	24.58
20	1	0	16-QAM	25.02	24.63	24.54
20	1	49		25.03	25.02	24.95
20	1	99		24.97	24.92	24.71
20	50	0		23.86	23.69	23.60
20	50	24		23.90	23.88	23.72
20	50	50		23.84	23.93	23.76
20	100	0		23.79	23.79	23.64
20	1	0	64-QAM	23.27	23.19	22.98
20	1	49		23.42	23.65	23.45
20	1	99		23.45	23.53	23.13
20	50	0		22.44	22.46	22.23
20	50	24		22.46	22.62	22.38
20	50	50		22.43	22.69	22.40
20	100	0		22.40	22.53	22.27
15	1	0	QPSK	25.62	25.38	25.45
15	1	37		25.63	25.64	25.65
15	1	74		25.63	25.53	25.65
15	36	0		24.83	24.63	24.73
15	36	20		24.86	24.79	24.84
15	36	39		24.85	24.74	24.92
15	75	0		24.80	24.62	24.80
15	1	0	16-QAM	25.01	24.72	24.82
15	1	37		24.98	24.90	25.05
15	1	74		25.03	24.83	25.05
15	36	0		23.84	23.59	23.73
15	36	20		23.86	23.78	23.84



15	36	39	64-QAM	23.81	23.76	23.92
15	75	0		23.82	23.67	23.80
15	1	0		23.18	23.12	23.33
15	1	37		23.46	23.44	23.65
15	1	74		23.42	23.33	23.61
15	36	0		22.43	22.25	22.48
15	36	20		22.43	22.43	22.58
15	36	39		22.43	22.41	22.64
15	75	0		22.39	22.31	22.53



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	25.50	25.09	25.27
10	1	25		25.45	25.37	25.50
10	1	49		25.47	25.20	25.34
10	25	0		24.66	24.43	24.60
10	25	12		24.69	24.54	24.80
10	25	25		24.65	24.52	24.65
10	50	0		24.60	24.46	24.60
10	1	0	16-QAM	24.87	24.46	24.69
10	1	25		24.89	24.73	24.90
10	1	49		24.87	24.54	24.64
10	25	0		23.69	23.44	23.60
10	25	12		23.72	23.55	23.79
10	25	25		23.69	23.51	23.69
10	50	0		23.64	23.47	23.64
10	1	0	64-QAM	23.12	22.94	23.18
10	1	25		23.30	23.37	23.56
10	1	49		23.29	23.07	23.21
10	25	0		22.30	22.17	22.39
10	25	12		22.29	22.29	22.53
10	25	25		22.29	22.23	22.43
10	50	0		22.16	22.12	22.35
5	1	0	QPSK	25.51	25.36	25.56
5	1	12		25.45	25.37	25.49
5	1	24		25.50	25.36	25.48
5	12	0		24.66	24.53	24.73
5	12	7		24.72	24.62	24.74
5	12	13		24.67	24.57	24.72
5	25	0		24.64	24.49	24.71
5	1	0	16-QAM	24.81	24.70	24.89
5	1	12		24.82	24.74	24.89
5	1	24		24.86	24.72	24.87
5	12	0		23.72	23.54	23.80
5	12	7		23.76	23.64	23.81



5	12	13	64-QAM	23.73	23.60	23.75
5	25	0		23.70	23.54	23.77
5	1	0		23.10	23.22	23.43
5	1	12		23.25	23.25	23.44
5	1	24		23.28	23.28	23.40
5	12	0		22.26	22.25	22.49
5	12	7		22.29	22.33	22.50
5	12	13		22.25	22.28	22.49
5	25	0		22.29	22.24	22.49



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.58	23.65	23.62
20	1	49		23.55	23.62	23.55
20	1	99		23.42	23.45	23.47
20	50	0		22.53	22.66	22.61
20	50	24		22.51	22.69	22.53
20	50	50		22.46	22.55	22.48
20	100	0		22.43	22.49	22.46
20	1	0	16-QAM	22.65	22.67	22.52
20	1	49		22.56	22.61	22.57
20	1	99		22.47	22.52	22.44
20	50	0		21.59	21.66	21.53
20	50	24		21.48	21.59	21.50
20	50	50		21.46	21.53	21.56
20	100	0		21.38	21.40	21.44
20	1	0	64-QAM	21.59	21.73	21.71
20	1	49		21.62	21.66	21.63
20	1	99		21.68	21.62	21.61
20	50	0		20.48	20.60	20.57
20	50	24		20.57	20.65	20.54
20	50	50		20.60	20.57	20.43
20	100	0		20.46	20.46	20.50
15	1	0	QPSK	23.55	23.61	23.59
15	1	37		23.51	23.56	23.53
15	1	74		23.44	23.40	23.33
15	36	0		22.64	22.69	22.71
15	36	20		22.56	22.60	22.63
15	36	39		22.52	22.57	22.49
15	75	0		22.52	22.54	22.45
15	1	0	16-QAM	22.77	22.73	22.65
15	1	37		22.73	22.60	22.78
15	1	74		22.54	22.77	22.67
15	36	0		21.78	21.71	21.77
15	36	20		21.59	21.68	21.56



15	36	39	64-QAM	21.56	21.62	21.52
15	75	0		21.44	21.58	21.49
15	1	0		21.70	21.66	21.80
15	1	37		21.68	21.62	21.67
15	1	74		21.57	21.57	21.62
15	36	0		20.41	20.58	20.55
15	36	20		20.56	20.61	20.54
15	36	39		20.48	20.55	20.55
15	75	0		20.53	20.41	20.49



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.44	23.49	23.50
10	1	25		23.35	23.37	23.45
10	1	49		23.29	23.21	23.32
10	25	0		22.42	22.40	22.44
10	25	12		22.46	22.51	22.56
10	25	25		22.50	22.46	22.45
10	50	0		22.34	22.43	22.39
10	1	0	16-QAM	22.64	22.71	22.57
10	1	25		22.59	22.56	22.62
10	1	49		22.73	22.52	22.53
10	25	0		21.30	21.54	21.44
10	25	12		21.38	21.47	21.50
10	25	25		21.40	21.43	21.40
10	50	0		21.25	21.36	21.44
10	1	0	64-QAM	21.45	21.55	21.63
10	1	25		21.56	21.45	21.52
10	1	49		21.60	21.51	21.44
10	25	0		20.27	20.26	20.41
10	25	12		20.48	20.45	20.34
10	25	25		20.31	20.35	20.40
10	50	0		20.32	20.35	20.33
5	1	0	QPSK	23.45	23.50	23.53
5	1	12		23.43	23.40	23.43
5	1	24		23.29	23.39	23.40
5	12	0		22.56	22.43	22.45
5	12	7		22.41	22.39	22.34
5	12	13		22.50	22.48	22.43
5	25	0		22.39	22.43	22.39
5	1	0	16-QAM	22.52	22.49	22.51
5	1	12		22.53	22.43	22.39
5	1	24		22.43	22.46	22.33
5	12	0		21.44	21.37	21.42
5	12	7		21.50	21.48	21.43



5	12	13	64-QAM	21.39	21.43	21.39
5	25	0		21.34	21.44	21.29
5	1	0		21.40	21.27	21.31
5	1	12		21.44	21.47	21.37
5	1	24		21.48	21.52	21.44
5	12	0		20.31	20.34	20.25
5	12	7		20.36	20.43	20.40
5	12	13		20.38	20.41	20.34
5	25	0		20.41	20.43	20.23

Note: For Top/Bottom Antenna, the higher Conducted power is showed in this report.



CA Power

CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	0	0	0	1	24.60
40521	40719	QPSK	1	0	1	99	2	24.94
41292	41490	QPSK	1	0	1	99	2	24.83
39750	39948	16QAM	1	0	0	0	1	23.61
40521	40719	16QAM	1	0	1	99	2	23.89
41292	41490	16QAM	1	0	1	99	2	23.53
39750	39948	64QAM	1	0	0	0	1	22.67
40521	40719	64QAM	1	0	1	99	2	22.47
41292	41490	64QAM	1	0	1	99	2	22.48



ERP/EIRP

Bottom Antenna

LTE Band 7 (GT - LC = -2.00 dB) QPSK			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	23.43	23.28	23.13
Conducted Power (Watts)	0.2203	0.2128	0.2056
EIRP(dBm)	21.43	21.28	21.13
EIRP(Watts)	0.1390	0.1343	0.1297

LTE Band 7 (GT - LC = -2.00 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
(MHz)									
Conducted Power (dBm)	23.11	23.35	23.10	23.55	23.50	23.29	23.56	23.46	23.37
Conducted Power (Watts)	0.2046	0.2163	0.2042	0.2265	0.2239	0.2133	0.2270	0.2218	0.2173
EIRP(dBm)	21.11	21.35	21.10	21.55	21.50	21.29	21.56	21.46	21.37
EIRP(Watts)	0.1291	0.1365	0.1288	0.1429	0.1413	0.1346	0.1432	0.1400	0.1371



LTE Band 7 (GT - LC = -2.00 dB) 16QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	23.00	22.95	22.68
Conducted Power (Watts)	0.1995	0.1972	0.1854
EIRP(dBm)	21.00	20.95	20.68
EIRP(Watts)	0.1259	0.1245	0.1169

LTE Band 7 (GT - LC = -2.00 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
(MHz)									
Conducted Power (dBm)	22.75	22.74	22.41	23.21	23.10	22.78	22.75	22.49	22.39
Conducted Power (Watts)	0.1884	0.1879	0.1742	0.2094	0.2042	0.1897	0.1884	0.1774	0.1734
EIRP(dBm)	20.75	20.74	20.41	21.21	21.10	20.78	20.75	20.49	20.39
EIRP(Watts)	0.1189	0.1186	0.1099	0.1321	0.1288	0.1197	0.1189	0.1119	0.1094



LTE Band 7 (GT - LC = -2.00 dB) 64QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	21.16	21.36	21.18
Conducted Power (Watts)	0.1306	0.1368	0.1312
EIRP(dBm)	19.16	19.36	19.18
EIRP(Watts)	0.0824	0.0863	0.0828

LTE Band 7 (GT - LC = -2.00 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
(MHz)									
Conducted Power (dBm)	21.23	21.33	21.15	21.43	21.48	21.40	21.54	21.47	21.33
Conducted Power (Watts)	0.1327	0.1358	0.1303	0.1390	0.1406	0.1380	0.1426	0.1403	0.1358
EIRP(dBm)	19.23	19.33	19.15	19.43	19.48	19.40	19.54	19.47	19.33
EIRP(Watts)	0.0838	0.0857	0.0822	0.0877	0.0887	0.0871	0.0899	0.0885	0.0857



LTE Band 12 (GT - LC = -2.00 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	22.92	22.82	22.77	22.91	22.93	22.90	22.93	22.93	22.92
Conducted Power (Watts)	0.1959	0.1914	0.1892	0.1954	0.1963	0.1950	0.1963	0.1963	0.1959
ERP(dBm)	18.77	18.67	18.62	18.76	18.78	18.75	18.78	18.78	18.77
ERP(Watts)	0.0753	0.0736	0.0728	0.0752	0.0755	0.0750	0.0755	0.0755	0.0753

LTE Band 12 (GT - LC = -2.00 dB) QPSK			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	22.88	22.94	22.64
Conducted Power (Watts)	0.1941	0.1968	0.1837
ERP(dBm)	18.73	18.79	18.49
ERP(Watts)	0.0746	0.0757	0.0706



LTE Band 12 (GT - LC = -2.00 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	22.27	22.17	22.43	21.97	21.88	22.07	22.55	22.31	22.31
Conducted Power (Watts)	0.1687	0.1648	0.1750	0.1574	0.1542	0.1611	0.1799	0.1702	0.1702
ERP(dBm)	18.12	18.02	18.28	17.82	17.73	17.92	18.40	18.16	18.16
ERP(Watts)	0.0649	0.0634	0.0673	0.0605	0.0593	0.0619	0.0692	0.0655	0.0655

LTE Band 12 (GT - LC = -2.00 dB) 16QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	22.29	22.08	22.25
Conducted Power (Watts)	0.1694	0.1614	0.1679
ERP(dBm)	18.14	17.93	18.10
ERP(Watts)	0.0652	0.0621	0.0646



LTE Band 12 (GT - LC = -2.00 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	21.11	21.14	21.02	21.19	21.18	21.08	21.14	21.13	21.07
Conducted Power (Watts)	0.1291	0.1300	0.1265	0.1315	0.1312	0.1282	0.1300	0.1297	0.1279
ERP(dBm)	16.96	16.99	16.87	17.04	17.03	16.93	16.99	16.98	16.92
ERP(Watts)	0.0497	0.0500	0.0486	0.0506	0.0505	0.0493	0.0500	0.0499	0.0492

LTE Band 12 (GT - LC = -2.00 dB) 64QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	21.16	21.17	21.11
Conducted Power (Watts)	0.1306	0.1309	0.1291
ERP(dBm)	17.01	17.02	16.96
ERP(Watts)	0.0502	0.0504	0.0497



LTE Band 13 (GT - LC = -2.00 dB) QPSK						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency	779.5	782	784.5	-	782	-
(MHz)						
Conducted Power (dBm)	22.91	22.90	22.84		22.92	-
Conducted Power (Watts)	0.1954	0.1950	0.1923		0.1959	-
ERP(dBm)	18.76	18.75	18.69		18.77	-
ERP(Watts)	0.0752	0.0750	0.0740		0.0753	-

LTE Band 13 (GT - LC = -2.00 dB) 16QAM						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency	779.5	782	784.5	-	782	-
(MHz)						
Conducted Power (dBm)	22.15	22.02	22.45		22.56	-
Conducted Power (Watts)	0.1641	0.1592	0.1758		0.1803	-
ERP(dBm)	18.00	17.87	18.30		18.41	-
ERP(Watts)	0.0631	0.0612	0.0676		0.0693	-

LTE Band 13 (GT - LC = -2.00 dB) 64QAM						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency	779.5	782	784.5	-	782	-
(MHz)						
Conducted Power (dBm)	20.98	20.93	20.81		20.93	-
Conducted Power (Watts)	0.1253	0.1239	0.1205		0.1239	-
ERP(dBm)	16.83	16.78	16.66		16.78	-
ERP(Watts)	0.0482	0.0476	0.0463		0.0476	-



LTE Band 17 (GT - LC = -2.00 dB) QPSK						
Bandwidth	5M			10M		
Channel	23755	23790	23825	23780	23790	23800
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	706.5	710	713.5	709	710	711
(MHz)						
Conducted Power (dBm)	22.93	22.95	22.83	22.85	22.96	22.89
Conducted Power (Watts)	0.1963	0.1972	0.1919	0.1928	0.1977	0.1945
ERP(dBm)	18.78	18.80	18.68	18.70	18.81	18.74
ERP(Watts)	0.0755	0.0759	0.0738	0.0741	0.0760	0.0748

LTE Band 17 (GT - LC = -2.00 dB) 16QAM						
Bandwidth	5M			10M		
Channel	23755	23790	23825	23780	23790	23800
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	706.5	710	713.5	709	710	711
(MHz)						
Conducted Power (dBm)	22.37	22.39	22.16	22.19	22.42	22.58
Conducted Power (Watts)	0.1726	0.1734	0.1644	0.1656	0.1746	0.1811
ERP(dBm)	18.22	18.24	18.01	18.04	18.27	18.43
ERP(Watts)	0.0664	0.0667	0.0632	0.0637	0.0671	0.0697

LTE Band 17 (GT - LC = -2.00 dB) 64QAM						
Bandwidth	5M			10M		
Channel	23755	23790	23825	23780	23790	23800
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	706.5	710	713.5	709	710	711
(MHz)						
Conducted Power (dBm)	21.16	21.06	21.01	21.15	21.21	21.11
Conducted Power (Watts)	0.1306	0.1276	0.1262	0.1303	0.1321	0.1291
ERP(dBm)	17.01	16.91	16.86	17.00	17.06	16.96
ERP(Watts)	0.0502	0.0491	0.0485	0.0501	0.0508	0.0497



LTE Band 38 (GT - LC = -2.00 dB) QPSK			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency	2572.5	2595	2617.5
(MHz)			
Conducted Power (dBm)	23.13	23.22	23.04
Conducted Power (Watts)	0.2056	0.2099	0.2014
EIRP(dBm)	21.13	21.22	21.04
EIRP(Watts)	0.1297	0.1324	0.1271

LTE Band 38 (GT - LC = -2.00 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	37800	38000	38200	37825	38000	38175	37850	38000	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency	2575	2595	2615	2577.5	2595	2612.5	2580	2595	2610
(MHz)									
Conducted Power (dBm)	23.17	23.21	23.37	23.27	23.45	23.40	23.46	23.36	23.32
Conducted Power (Watts)	0.2075	0.2094	0.2173	0.2123	0.2213	0.2188	0.2218	0.2168	0.2148
EIRP(dBm)	21.17	21.21	21.37	21.27	21.45	21.40	21.46	21.36	21.32
EIRP(Watts)	0.1309	0.1321	0.1371	0.1340	0.1396	0.1380	0.1400	0.1368	0.1355



LTE Band 38 (GT - LC = -2.00 dB) 16QAM			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency	2572.5	2595	2617.5
(MHz)			
Conducted Power (dBm)	22.31	22.33	22.23
Conducted Power (Watts)	0.1702	0.1710	0.1671
EIRP(dBm)	20.31	20.33	20.23
EIRP(Watts)	0.1074	0.1079	0.1054

LTE Band 38 (GT - LC = -2.00 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	37800	38000	38200	37825	38000	38175	37850	38000	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency	2575	2595	2615	2577.5	2595	2612.5	2580	2595	2610
(MHz)									
Conducted Power (dBm)	22.34	22.39	22.51	22.64	22.47	22.43	22.69	22.55	22.49
Conducted Power (Watts)	0.1714	0.1734	0.1782	0.1837	0.1766	0.1750	0.1858	0.1799	0.1774
EIRP(dBm)	20.34	20.39	20.51	20.64	20.47	20.43	20.69	20.55	20.49
EIRP(Watts)	0.1081	0.1094	0.1125	0.1159	0.1114	0.1104	0.1172	0.1135	0.1119



LTE Band 38 (GT - LC = -2.00 dB) 64QAM			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency	2572.5	2595	2617.5
(MHz)			
Conducted Power (dBm)	21.16	20.96	20.89
Conducted Power (Watts)	0.1306	0.1247	0.1227
EIRP(dBm)	19.16	18.96	18.89
EIRP(Watts)	0.0824	0.0787	0.0774

LTE Band 38 (GT - LC = -2.00 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	37800	38000	38200	37825	38000	38175	37850	38000	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency	2575	2595	2615	2577.5	2595	2612.5	2580	2595	2610
(MHz)									
Conducted Power (dBm)	21.08	21.19	20.85	21.34	21.07	21.08	21.41	21.00	20.98
Conducted Power (Watts)	0.1282	0.1315	0.1216	0.1361	0.1279	0.1282	0.1384	0.1259	0.1253
EIRP(dBm)	19.08	19.19	18.85	19.34	19.07	19.08	19.41	19.00	18.98
EIRP(Watts)	0.0809	0.0830	0.0767	0.0859	0.0807	0.0809	0.0873	0.0794	0.0791



LTE Band 41 (G _T - L _C = -2.00dB) QPSK									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
Conducted Power (dBm)	25.51	25.36	25.56	25.45	25.37	25.50	25.63	25.64	25.65
Conducted Power (Watts)	0.3556	0.3436	0.3597	0.3508	0.3443	0.3548	0.3656	0.3664	0.3673
EIRP(dBm)	23.51	23.36	23.56	23.45	23.37	23.50	23.63	23.64	23.65
EIRP(Watts)	0.2244	0.2168	0.2270	0.2213	0.2173	0.2239	0.2307	0.2312	0.2317

LTE Band 41 (G _T - L _C = -2.00dB) QPSK			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency (MHz)	2506	2593	2680
Conducted Power (dBm)	25.65	25.72	25.56
Conducted Power (Watts)	0.3673	0.3733	0.3597
EIRP(dBm)	23.65	23.72	23.56
EIRP(Watts)	0.2317	0.2355	0.2270



LTE Band 41 (G _T - L _C = -2.00dB) 16QAM									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
Conducted Power (dBm)	24.82	24.74	24.89	24.89	24.73	24.90	25.03	24.83	25.05
Conducted Power (Watts)	0.3034	0.2979	0.3083	0.3083	0.2972	0.3090	0.3184	0.3041	0.3199
EIRP(dBm)	22.82	22.74	22.89	22.89	22.73	22.90	23.03	22.83	23.05
EIRP(Watts)	0.1914	0.1879	0.1945	0.1945	0.1875	0.1950	0.2009	0.1919	0.2018

LTE Band 41 (G _T - L _C = -2.00dB) 16QAM			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency (MHz)	2506	2593	2680
Conducted Power (dBm)	25.03	25.02	24.95
Conducted Power (Watts)	0.3184	0.3177	0.3126
EIRP(dBm)	23.03	23.02	22.95
EIRP(Watts)	0.2009	0.2004	0.1972



LTE Band 41 (G _T - L _C = -2.00dB) 64QAM									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
Conducted Power (dBm)	23.25	23.25	23.44	23.30	23.37	23.56	23.46	23.44	23.65
Conducted Power (Watts)	0.2113	0.2113	0.2208	0.2138	0.2173	0.2270	0.2218	0.2208	0.2317
EIRP(dBm)	21.25	21.25	21.44	21.30	21.37	21.56	21.46	21.44	21.65
EIRP(Watts)	0.1334	0.1334	0.1393	0.1349	0.1371	0.1432	0.1400	0.1393	0.1462

LTE Band 41 (G _T - L _C = -2.00dB) 64QAM			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency (MHz)	2506	2593	2680
Conducted Power (dBm)	23.42	23.65	23.45
Conducted Power (Watts)	0.2198	0.2317	0.2213
EIRP(dBm)	21.42	21.65	21.45
EIRP(Watts)	0.1387	0.1462	0.1396



LTE Band 71 (GT - LC = -2.00 dB) QPSK									
Bandwidth	5M			10M			15M		
Channel	133147	133297	133447	133172	133297	133422	133197	133297	133397
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	665.5	680.5	695.5	668	680.5	693	670.5	680.5	690.5
(MHz)									
Conducted Power (dBm)	23.45	23.50	23.53	23.44	23.49	23.50	23.55	23.61	23.59
Conducted Power (Watts)	0.2213	0.2239	0.2254	0.2208	0.2234	0.2239	0.2265	0.2296	0.2286
ERP(dBm)	19.30	19.35	19.38	19.29	19.34	19.35	19.40	19.46	19.44
ERP(Watts)	0.0851	0.0861	0.0867	0.0849	0.0859	0.0861	0.0871	0.0883	0.0879

LTE Band 71 (GT - LC = -2.00 dB) QPSK			
Bandwidth	20M		
Channel	133222	133297	133372
	(Low)	(Mid)	(High)
Frequency	673	680.5	688
(MHz)			
Conducted Power (dBm)	23.58	23.65	23.62
Conducted Power (Watts)	0.2280	0.2317	0.2301
ERP(dBm)	19.43	19.50	19.47
ERP(Watts)	0.0877	0.0891	0.0885



LTE Band 71 (GT - LC = -2.00 dB) 16QAM									
Bandwidth	5M			10M			15M		
Channel	133147	133297	133447	133172	133297	133422	133197	133297	133397
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	665.5	680.5	695.5	668	680.5	693	670.5	680.5	690.5
Conducted Power (dBm)	22.53	22.43	22.39	22.73	22.52	22.53	22.73	22.60	22.78
Conducted Power (Watts)	0.1791	0.1750	0.1734	0.1875	0.1786	0.1791	0.1875	0.1820	0.1897
ERP(dBm)	18.38	18.28	18.24	18.58	18.37	18.38	18.58	18.45	18.63
ERP(Watts)	0.0689	0.0673	0.0667	0.0721	0.0687	0.0689	0.0721	0.0700	0.0729

LTE Band 71 (GT - LC = -2.00 dB) 16QAM			
Bandwidth	20M		
Channel	133222	133297	133372
	(Low)	(Mid)	(High)
Frequency (MHz)	673	680.5	688
Conducted Power (dBm)	22.65	22.67	22.52
Conducted Power (Watts)	0.1841	0.1849	0.1786
ERP(dBm)	18.50	18.52	18.37
ERP(Watts)	0.0708	0.0711	0.0687



LTE Band 71 (GT - LC = -2.00 dB) 64QAM									
Bandwidth	5M			10M			15M		
Channel	133147	133297	133447	133172	133297	133422	133197	133297	133397
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	665.5	680.5	695.5	668	680.5	693	670.5	680.5	690.5
Conducted Power (dBm)	21.48	21.52	21.44	21.45	21.55	21.63	21.70	21.66	21.80
Conducted Power (Watts)	0.1406	0.1419	0.1393	0.1396	0.1429	0.1455	0.1479	0.1466	0.1514
ERP(dBm)	17.33	17.37	17.29	17.30	17.40	17.48	17.55	17.51	17.65
ERP(Watts)	0.0541	0.0546	0.0536	0.0537	0.0550	0.0560	0.0569	0.0564	0.0582

LTE Band 71 (GT - LC = -2.00 dB) 64QAM			
Bandwidth	20M		
Channel	133222	133297	133372
	(Low)	(Mid)	(High)
Frequency (MHz)	673	680.5	688
Conducted Power (dBm)	21.59	21.73	21.71
Conducted Power (Watts)	0.1442	0.1489	0.1483
ERP(dBm)	17.44	17.58	17.56
ERP(Watts)	0.0555	0.0573	0.0570



CA EIRP

Bottom Antenna

LTE Band 41 CA (GT - LC = -2.00 dB) QPSK			
Bandwidth	20M+20M		
Channel PCC	39750	40521	41292
	(Low)	(Mid)	(High)
Channel SCC	39948	40719	41490
	(Low)	(Mid)	(High)
Conducted Power (dBm)	24.60	24.94	24.83
Conducted Power (Watts)	0.2884	0.3119	0.3041
EIRP(dBm)	22.60	22.94	22.83
EIRP(Watts)	0.1820	0.1968	0.1919

LTE Band 41 CA (GT - LC = -2.00 dB) 16QAM			
Bandwidth	20M+20M		
Channel PCC	39750	40521	41292
	(Low)	(Mid)	(High)
Channel SCC	39948	40719	41490
	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.61	23.89	23.53
Conducted Power (Watts)	0.2296	0.2449	0.2254
EIRP(dBm)	21.61	21.89	21.53
EIRP(Watts)	0.1449	0.1545	0.1422



LTE Band 41 CA (GT - LC = -2.00 dB) 64QAM			
Bandwidth	20M+20M		
Channel PCC	39750	40521	41292
	(Low)	(Mid)	(High)
Channel SCC	39948	40719	41490
	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.67	22.47	22.48
Conducted Power (Watts)	0.1849	0.1766	0.1770
EIRP(dBm)	20.67	20.47	20.48
EIRP(Watts)	0.1167	0.1114	0.1117



LTE Band 7

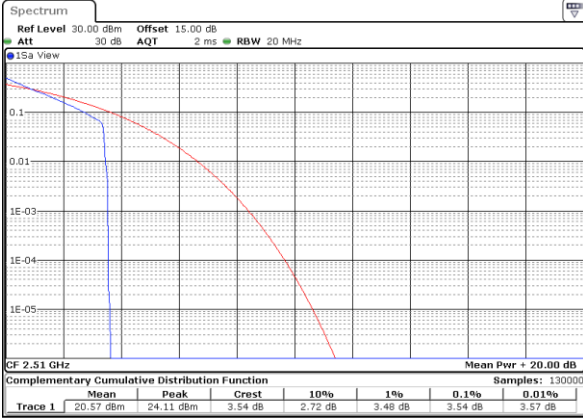
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.54	5.01	5.19	5.88	PASS
Middle CH	3.54	5.01	5.16	5.83	
Highest CH	3.45	4.81	5.33	5.83	
Mode	LTE Band 7 / 20MHz				
Mod.	64QAM		-		Limit: 13dB
RB Size	1RB	Full RB	-	-	Result
Lowest CH	5.25	5.94	-	-	PASS
Middle CH	5.07	5.88	-	-	
Highest CH	5.42	5.80	-	-	



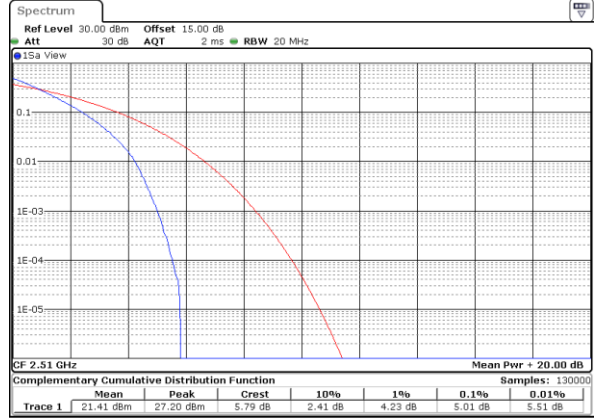
LTE Band 7 / 20MHz / QPSK

Lowest Channel / 1RB



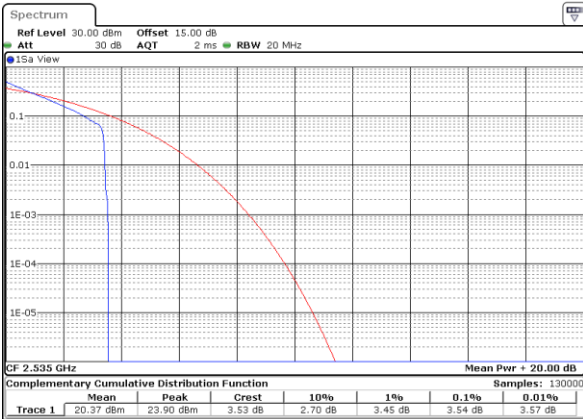
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Lowest Channel / Full RB



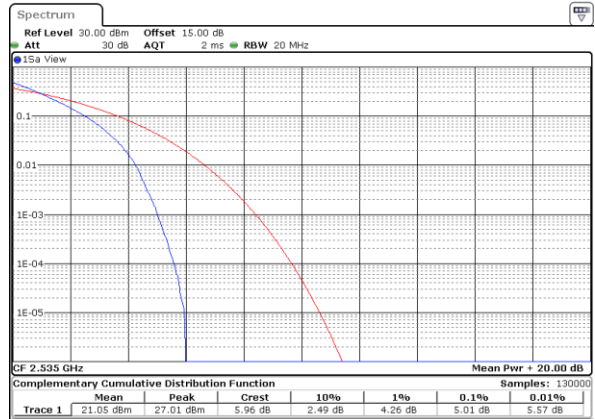
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Middle Channel / 1RB



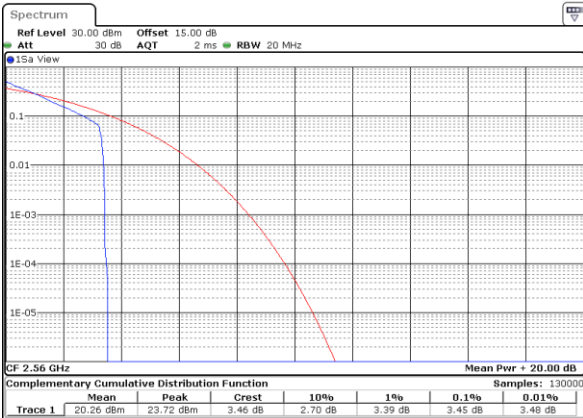
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Middle Channel / Full RB



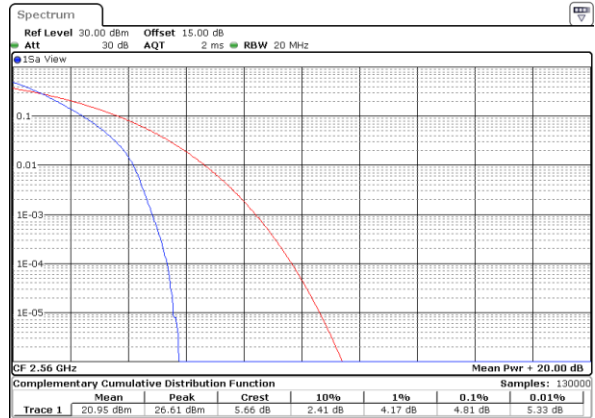
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Highest Channel / 1RB



Date: 1.DEC.2019 01:48:36

Highest Channel / Full RB

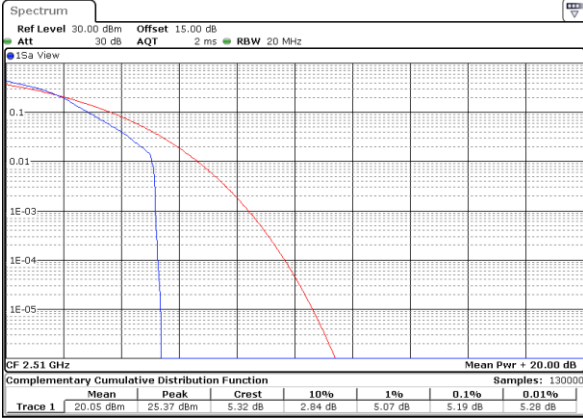


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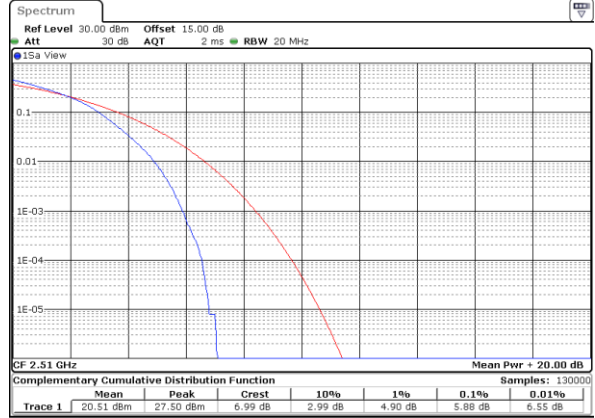
LTE Band 7 / 20MHz / 16QAM

Lowest Channel / 1RB



Date: 1.DEC.2019 01:46:48

Lowest Channel / Full RB



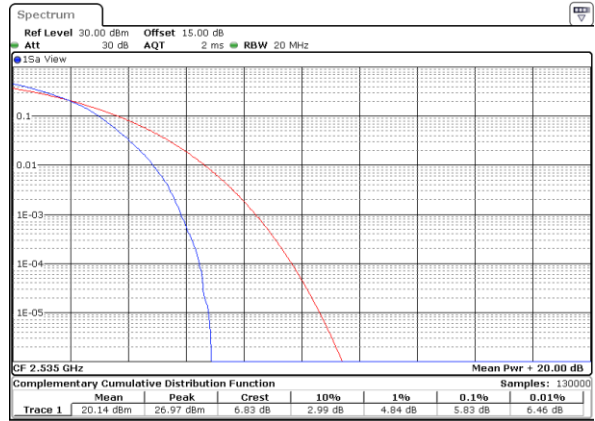
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Middle Channel / 1RB



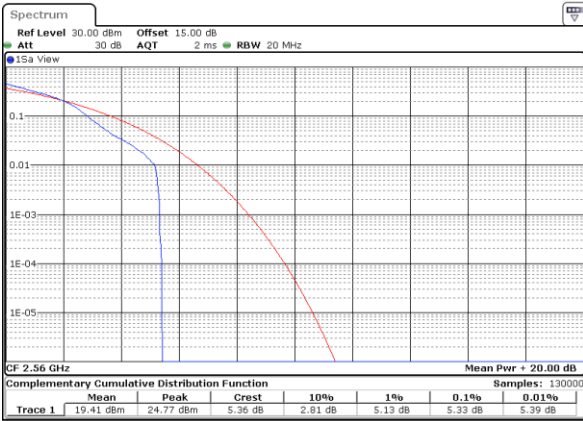
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Middle Channel / Full RB



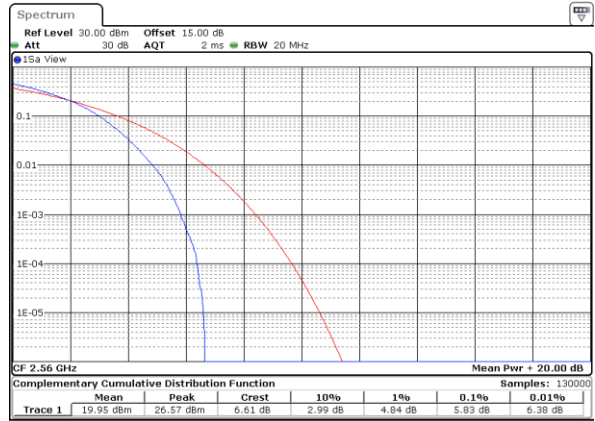
Date: 1.DEC.2019 01:47:21

Highest Channel / 1RB



Date: 1.DEC.2019 01:47:32

Highest Channel / Full RB



Date: 1.DEC.2019 01:47:43