



FCC RF Test Report

APPLICANT : ASUSTeK COMPUTER INC.
EQUIPMENT : ASUS Phone (Mobile Phone)
BRAND NAME : ASUS
MODEL NAME : ASUS_X01AD
FCC ID : MSQX01AD
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(H)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Jul. 20, 2018 and completely tested on Nov. 14, 2018. We, Sporton International (Kunshan) 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 (Kunshan) Inc., the test report shall not be reproduced except in full.



Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.
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TABLE OF CONTENTS

REVISION HISTORY.....	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Applicant.....	5
1.2 Manufacturer.....	5
1.3 Product Feature of Equipment Under Test.....	5
1.4 Product Specification of Equipment Under Test.....	6
1.5 Modification of EUT	6
1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator	7
1.7 Testing Location	11
1.8 Applicable Standards.....	11
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	12
2.1 Test Mode.....	12
2.2 Connection Diagram of Test System.....	15
2.3 Support Unit used in test configuration and system	15
2.4 Measurement Results Explanation Example.....	15
2.5 Frequency List of Low/Middle/High Channels	16
3 CONDUCTED TEST ITEMS	20
3.1 Measuring Instruments	20
3.2 Test Setup	20
3.3 Test Result of Conducted Test.....	20
3.4 Conducted Output Power and ERP/EIRP	21
3.5 Peak-to-Average Ratio	22
3.6 Occupied Bandwidth.....	23
3.7 Conducted Band Edge	24
3.8 Conducted Spurious Emission	26
3.9 Frequency Stability	27
4 RADIATED TEST ITEMS	28
4.1 Measuring Instruments	28
4.2 Test Setup	28
4.3 Test Result of Radiated Test.....	28
4.4 Radiated Spurious Emission	29
5 LIST OF MEASURING EQUIPMENT	30
6 UNCERTAINTY OF EVALUATION	31
APPENDIX A. TEST RESULTS OF CONDUCTED TEST	
APPENDIX B. TEST RESULTS OF RADIATED TEST	
APPENDIX C. TEST SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG872010B	Rev. 01	Initial issue of report	Nov. 15, 2018

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power (Band 5) (Band 26)	ERP < 7 Watt	PASS	-
	§27.50(c)(10)	Effective Radiated Power (Band 12) (Band 17)	ERP < 3 Watt	PASS	-
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 7) (Band 38) (Band 41)	EIRP < 2Watt	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4)	EIRP < 1Watt	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 17) (Band 26)	< 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 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 17) (Band 26)	< 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 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 17) (Band 26)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 29.28 dB at 7907.00 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log ₁₀ (P[Watts])		



1 General Description

1.1 Applicant

ASUSTeK COMPUTER INC.

4F, No.150, Li-Te Rd., Peitou, Taipei 112, Taiwan

1.2 Manufacturer

ASUSTeK COMPUTER INC.

4F, No.150, Li-Te Rd., Peitou, Taipei 112, Taiwan

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	ASUS Phone (Mobile Phone)
Brand Name	ASUS
Model Name	ASUS_X01AD
FCC ID	MSQX01AD
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/HSPA+/LTE WLAN 2.4GHz 802.11b/g/n HT20/HT40 Bluetooth BR/EDR/LE
IMEI Code	Conducted: 352203100056807/352203100056815 Radiation: 352203100056922/352203100056930
HW Version	A8r8a
SW Version	DailyBuildOPM1.WW_Phone-15.2016.1805.000-20180913
EUT Stage	Production Unit

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz LTE Band 12 : 699.7 MHz ~ 715.3 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz LTE Band 26 : 824.7MHz ~ 848.3 MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz LTE Band 41 : 2537.5 MHz ~ 2652.5 MHz
Rx Frequency	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 7 : 2622.5MHz ~ 2687.5 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz LTE Band 26 : 869.7MHz ~ 893.3MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz LTE Band 41 : 2537.5 MHz ~ 2652.5 MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 7 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz
Antenna Gain	LTE Band 2 : -6.00 dBi LTE Band 4 : -6.00 dBi LTE Band 5 : -7.00 dBi LTE Band 7 : -5.00 dBi LTE Band 12 : -8.00 dBi LTE Band 17 : -8.00 dBi LTE Band 26 : -7.00 dBi LTE Band 38 : -6.00 dBi LTE Band 41 : -6.00 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

1.5 Modification of EUT

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



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

LTE Band 2		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)
1.4	1850.7 ~ 1909.3	1M10G7D	-	0.0578	1M10W7D	-	0.0476
3	1851.5 ~ 1908.5	2M72G7D	-	0.0545	2M75W7D	-	0.0436
5	1852.5 ~ 1907.5	4M49G7D	-	0.0593	4M50W7D	-	0.0425
10	1855.0 ~ 1905.0	9M11G7D	0.0024	0.0582	9M05W7D	-	0.0440
15	1857.5 ~ 1902.5	13M4G7D	-	0.0587	13M5W7D	-	0.0458
20	1860.0 ~ 1900.0	18M2G7D	-	0.0610	18M3W7D	-	0.0436
LTE Band 2		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)	
1.4	1850.7 ~ 1909.3	1M10W7D		-		0.0361	
3	1851.5 ~ 1908.5	2M73W7D		-		0.0367	
5	1852.5 ~ 1907.5	4M52W7D		-		0.0371	
10	1855.0 ~ 1905.0	8M99W7D		-		0.0367	
15	1857.5 ~ 1902.5	13M5W7D		-		0.0388	
20	1860.0 ~ 1900.0	18M3W7D		-		0.0393	
LTE Band 4		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)
1.4	1710.7 ~ 1754.3	1M10G7D	-	0.0625	1M10W7D	-	0.0499
3	1711.5 ~ 1753.5	2M73G7D	-	0.0621	2M73W7D	-	0.0470
5	1712.5 ~ 1752.5	4M50G7D	-	0.0628	4M50W7D	-	0.0474
10	1715.0 ~ 1750.0	9M01G7D	0.0028	0.0627	9M01W7D	-	0.0484
15	1717.5 ~ 1747.5	13M4G7D	-	0.0627	13M4W7D	-	0.0494
20	1720.0 ~ 1745.0	18M3G7D	-	0.0624	18M3W7D	-	0.0489



LTE Band 4		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)	
1.4	1710.7 ~ 1754.3	1M10W7D		-		0.0501	
3	1711.5 ~ 1753.5	2M73W7D		-		0.0462	
5	1712.5 ~ 1752.5	4M47W7D		-		0.0457	
10	1715.0 ~ 1750.0	9M05W7D		-		0.0478	
15	1717.5 ~ 1747.5	13M4W7D		-		0.0481	
20	1720.0 ~ 1745.0	18M3W7D		-		0.0453	
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	4M49G7D	-	0.0778	4M50W7D	-	0.0625
10	2505.0 ~ 2565.0	9M01G7D	0.0026	0.0776	9M03W7D	-	0.0590
15	2507.5 ~ 2562.5	13M5G7D	-	0.0778	13M4W7D	-	0.0610
20	2510.0 ~ 2560.0	18M4G7D	-	0.0782	18M3W7D	-	0.0598
LTE Band 7		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)	
5	2502.5 ~ 2567.5	4M53W7D		-		0.0501	
10	2505.0 ~ 2565.0	9M05W7D		-		0.0499	
15	2507.5 ~ 2562.5	13M4W7D		-		0.0497	
20	2510.0 ~ 2560.0	18M4W7D		-		0.0493	



LTE Band 12 (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)
1.4	699.7 ~ 715.3	1M09G7D	-	0.0229	1M10W7D	-	0.0185
3	700.5 ~ 714.5	2M73G7D	-	0.0234	2M73W7D	-	0.0176
5	701.5 ~ 713.5	4M50G7D	-	0.0239	4M50W7D	-	0.0179
10	704.0 ~ 711.0	9M01G7D	0.0076	0.0234	9M01W7D	-	0.0174
LTE Band 12 (Band 17)		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum ERP(W)	
1.4	699.7 ~ 715.3	1M10W7D		-		0.0152	
3	700.5 ~ 714.5	2M73W7D		-		0.0152	
5	701.5 ~ 713.5	4M50W7D		-		0.0153	
10	704.0 ~ 711.0	9M07W7D		-		0.0145	
LTE Band 26 (Band 5)		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	824.7 ~ 848.3	1M09G7D	-	0.0264	1M09W7D	-	0.0216
3	825.5 ~ 847.5	2M73G7D	-	0.0259	2M72W7D	-	0.0214
5	826.5 ~ 846.5	4M50G7D	-	0.0261	4M48W7D	-	0.0198
10	829.0 ~ 844.0	9M03G7D	0.0093	0.0290	9M03W7D	-	0.0211
15	831.5 ~ 841.5	13M4G7D	-	0.0281	13M4W7D	-	0.0214
CH26765	821.5	13M4G7D	-	0.0275	13M4W7D	-	0.0208
LTE Band 26 (Band 5)		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum ERP(W)	
1.4	824.7 ~ 848.3	1M09W7D		-		0.0167	
3	825.5 ~ 847.5	2M73W7D		-		0.0173	
5	826.5 ~ 846.5	4M50W7D		-		0.0173	
10	829.0 ~ 844.0	9M03W7D		-		0.0166	
15	831.5 ~ 841.5	13M5W7D		-		0.0170	
CH26765	821.5	13M3W7D		-		0.0172	



LTE Band 41 (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	2537.5 ~ 2652.5	4M50G7D	-	0.0603	4M49W7D	-	0.0475
10	2540.0 ~ 2650.0	9M09G7D	0.0023	0.0583	9M05W7D	-	0.0454
15	2542.5 ~ 2647.5	13M5G7D	-	0.0612	13M5W7D	-	0.0455
20	2545.0 ~ 2645.0	18M4G7D	-	0.0618	18M5W7D	-	0.0486
LTE Band 41 (Band 38)		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)	
5	2537.5 ~ 2652.5	4M48W7D		-		0.0357	
10	2540.0 ~ 2650.0	9M01W7D		-		0.0361	
15	2542.5 ~ 2647.5	13M5W7D		-		0.0330	
20	2545.0 ~ 2645.0	18M3W7D		-		0.0339	

Note:

1. LTE Band 26 overlaps the entire frequency range of LTE Band 5. Therefore, the test results provided in this report covers Band 5 and the portion of Band 26 subject to Part 22.
2. LTE Band 12 overlaps the entire frequency range of LTE Band 17. Therefore, the test results provided in this report covers Band 12 as well as Band 17.
3. LTE Band 41 overlaps the entire frequency range of LTE Band 38. Therefore, the test results provided in this report covers Band 41 as well as Band 38.

1.7 Testing Location

Sporton Lab is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0).

Test Site	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone, Jiangsu Province 215335, China TEL : 86-512-57900158 FAX : 86-512-57900958		
Test Site No.	Sporton Site No.	FCC designation No.	FCC Test Firm Registration No.
	TH01-KS 03CH06-KS	CN5013	630927

1.8 Applicable Standards

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

- ♦ 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(H)
- ♦ 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	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
	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
	17	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v
	26	v	v	v	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
Peak-to-Average Ratio	2						v	v	v	v	v		v	v	v	v
	4						v	v	v	v	v		v	v	v	v
	7	-	-				v	v	v	v	v		v	v	v	v
	12				v	-	-	v	v	v	v		v	v	v	v
	26				v		-	v	v	v	v		v	v	v	v
	41	-	-				v	v	v	v	v		v	v	v	v

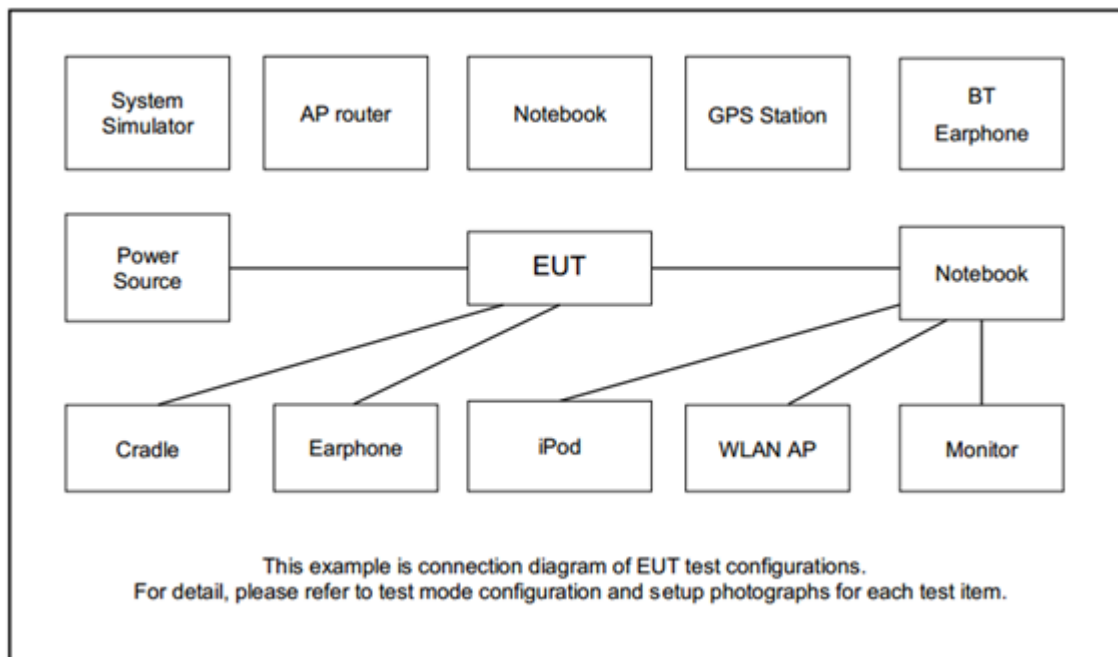


Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
26dB and 99% Bandwidth	2	V	V	V	V	V	V	V	V	V			V	V	V	V
	4	V	V	V	V	V	V	V	V	V			V	V	V	V
	7	-	-	V	V	V	V	V	V	V			V	V	V	V
	12	V	V	V	V	-	-	V	V	V			V	V	V	V
	26	V	V	V	V	V	-	V	V	V			V	V	V	V
	41	-	-	V	V	V	V	V	V	V			V	V	V	V
Conducted Band Edge	2	V	V	V	V	V	V	V	V	V	V		V	V		V
	4	V	V	V	V	V	V	V	V	V	V		V	V		V
	7	-	-	V	V	V	V	V	V	V	V		V	V		V
	12	V	V	V	V	-	-	V	V	V	V		V	V		V
	26	V	V	V	V	V	-	V	V	V	V		V	V		V
	41	-	-	V	V	V	V	V	V	V	V		V	V		V
Conducted Spurious Emission	2	V	V	V	V	V	V	V	V	V	V			V	V	V
	4	V	V	V	V	V	V	V	V	V	V			V	V	V
	7	-	-	V	V	V	V	V	V	V	V			V	V	V
	12	V	V	V	V	-	-	V	V	V	V			V	V	V
	26	V	V	V	V	V	-	V	V	V	V			V	V	V
	41	-	-	V	V	V	V	V	V	V	V			V	V	V
Frequency Stability	2				V			V					V		V	
	4				V			V					V		V	
	7	-	-		V			V					V		V	
	12				V	-	-	V					V		V	
	26				V		-	V					V		V	
	41	-	-		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	2	v	v	v	v	v	v	v	v	v	v			v	v	v
	4	v	v	v	v	v	v	v	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	12	v	v	v	v	-	-	v	v	v	v			v	v	v
	26	v	v	v	v	v	-	v	v	v	v			v	v	v
	41	-	-	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	2	Worst Case												v	v	v
	4	Worst Case												v	v	v
	7	Worst Case												v	v	v
	12	Worst Case												v	v	v
	26	Worst Case												v	v	v
	41	Worst Case												v	v	v
Note	1. The mark “v ” means that this configuration is chosen for testing 2. The mark “-” means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. LTE Band 26 overlaps the entire frequency range of LTE Band 5. Therefore, the test results provided in this report covers Band 5 and the portion of Band 26 subject to Part 22. 5. LTE Band 12 overlaps the entire frequency range of LTE Band 17. Therefore, the test results provided in this report covers Band 12 as well as Band 17. 6. LTE Band 41 overlaps the entire frequency range of LTE Band 38. Therefore, the test results provided in this report covers Band 41 as well as Band 38.															

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.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	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 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.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 4.8 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 4.8 \text{ (dB)} \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3

LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

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 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 26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
	Frequency	829	836.5	844
5	Channel	26815	26915	27015
	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
	Frequency	824.7	836.5	848.3

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	40140	40640	41140
	Frequency	2545	2595	2645
15	Channel	40115	40640	41165
	Frequency	2542.5	2595	2647.5
10	Channel	40090	40640	41190
	Frequency	2540	2595	2650
5	Channel	40065	40640	41215
	Frequency	2537.5	2595	2652.5

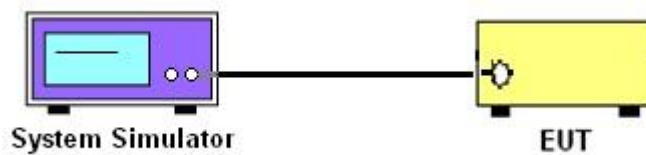
3 Conducted Test Items

3.1 Measuring Instruments

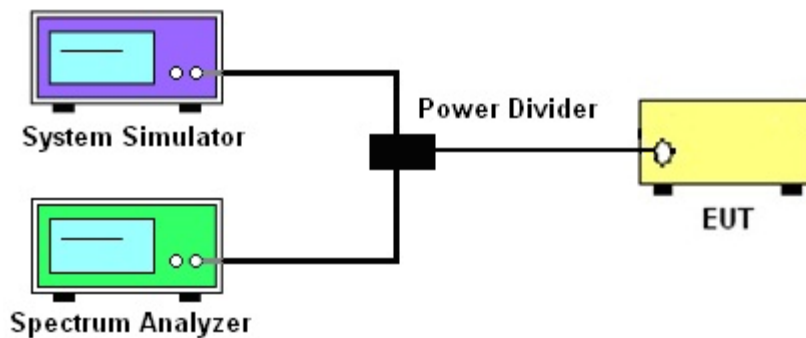
See list of measuring instruments of this test report.

3.2 Test Setup

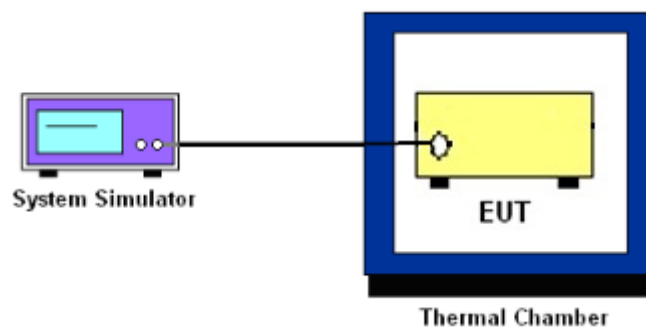
3.2.1 Conducted Output Power



3.2.2 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 7 Watts for LTE Band 5 and Band 26.

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

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

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4.

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

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

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 $P(\text{Watts})$ 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 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter 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 than $43 + 10 \log (P)$ 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.

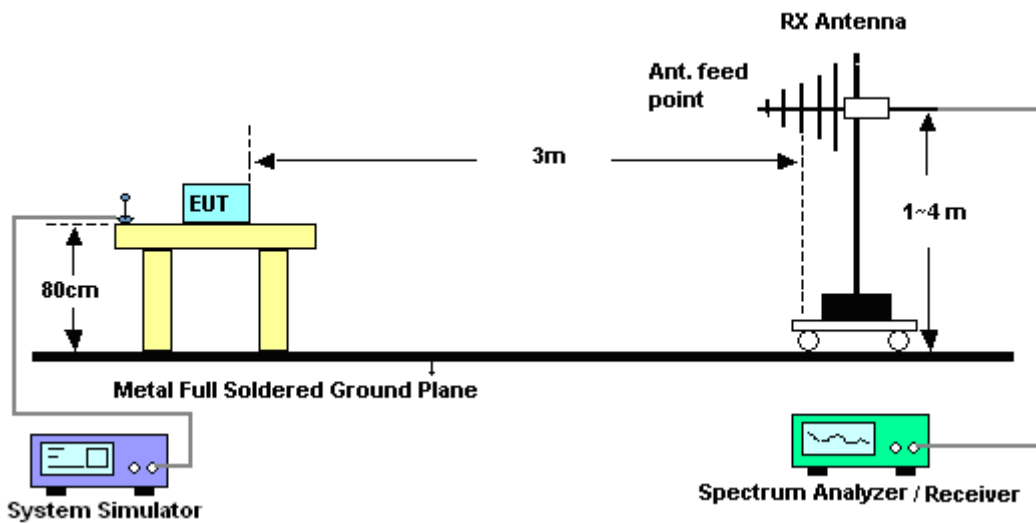
4 Radiated Test Items

4.1 Measuring Instruments

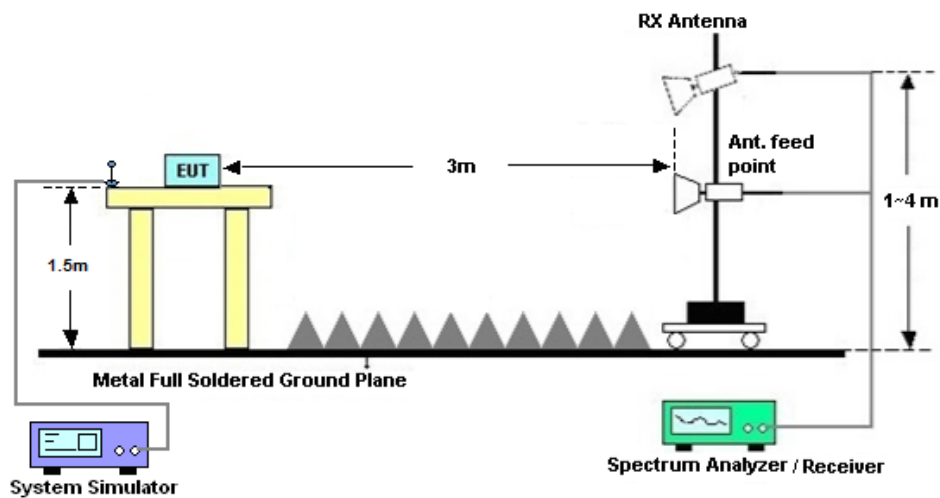
See list of measuring instruments of this test report.

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.

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. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$
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)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$

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	101040	10Hz~40GHz	Aug. 07, 2018	Oct. 09, 2018~ Nov. 07, 2018	Aug. 06, 2019	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 12, 2017	Oct. 09, 2018~ Nov. 07, 2018	Oct. 11, 2018	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 11, 2018		Oct. 10, 2019	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY57471084	10Hz~44GHz	Jun. 25, 2018	Oct. 24, 2018	Jun. 24, 2019	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz~1GHz	Jan. 29, 2018	Oct. 24, 2018	Jan. 28, 2019	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 20, 2018	Oct. 24, 2018	Oct. 19, 2019	Radiation (03CH06-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Feb. 07, 2018	Oct. 24, 2018	Feb. 06, 2019	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Aug. 06, 2018	Oct. 24, 2018	Aug. 05, 2019	Radiation (03CH06-KS)
Amplifier	MITEQ	TTA1840-35-HG	2014749	18~40GHz	Feb. 08, 2018	Oct. 24, 2018	Feb. 07, 2019	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz~18Ghz	Apr. 17, 2018	Oct. 24, 2018	Apr. 16, 2019	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5GHz	Dec. 16, 2017	Oct. 24, 2018	Dec. 15, 2018	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Oct. 24, 2018	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Oct. 24, 2018	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Oct. 24, 2018	NCR	Radiation (03CH06-KS)

NCR: No Calibration Required



6 Uncertainty of Evaluation

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% ($U = 2Uc(y)$)	2.0dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.0dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.80	23.50	23.65
20	1	49		23.32	23.85	23.46
20	1	99		23.12	23.26	22.88
20	50	0		22.21	22.57	22.29
20	50	24		22.17	22.53	22.24
20	50	50		22.26	22.68	22.19
20	100	0		22.23	22.53	22.29
20	1	0	16-QAM	22.00	22.24	22.12
20	1	49		22.18	22.39	22.03
20	1	99		22.01	22.13	21.90
20	50	0		21.35	21.62	21.34
20	50	24		21.24	21.58	21.15
20	50	50		21.33	21.73	21.15
20	100	0		21.19	21.47	21.23
20	1	0	64QAM	21.06	21.38	21.17
20	1	49		21.94	21.63	21.91
20	1	99		21.13	21.24	21.04
20	50	0		20.05	20.35	20.26
20	50	24		20.00	20.41	20.09
20	50	50		20.19	20.58	19.99
20	100	0		20.10	20.51	20.17
15	1	0	QPSK	23.04	23.21	23.13
15	1	37		23.55	23.69	23.41
15	1	74		23.11	23.43	23.15
15	36	0		22.28	22.48	22.30
15	36	20		22.23	22.68	22.34
15	36	39		22.20	22.74	22.24
15	75	0		22.29	22.64	22.15



15	1	0	16-QAM	22.10	22.32	21.95
15	1	37		22.21	22.61	22.03
15	1	74		22.09	22.32	21.97
15	36	0		21.26	21.52	21.25
15	36	20		21.22	21.63	21.30
15	36	39		21.19	21.70	21.12
15	75	0		21.17	21.63	21.22
15	1	0	64QAM	21.16	21.40	21.19
15	1	37		21.50	21.89	21.52
15	1	74		21.13	21.47	21.01
15	36	0		20.16	20.40	20.22
15	36	20		20.11	20.67	20.24
15	36	39		20.07	20.66	20.15
15	75	0		20.03	20.62	20.22



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.97	23.10	22.94
10	1	25		23.42	23.65	23.46
10	1	49		23.15	23.32	23.26
10	25	0		22.29	22.62	22.33
10	25	12		22.24	22.70	22.20
10	25	25		22.24	22.65	22.20
10	50	0		22.22	22.58	22.25
10	1	0	16-QAM	22.09	21.99	21.83
10	1	25		21.99	22.40	22.06
10	1	49		22.11	22.43	22.01
10	25	0		21.46	21.67	21.60
10	25	12		21.49	21.75	21.35
10	25	25		21.39	21.60	21.35
10	50	0		21.10	21.64	21.12
10	1	0	64QAM	20.95	21.18	21.14
10	1	25		21.35	21.65	21.10
10	1	49		21.18	21.58	21.06
10	25	0		20.27	20.69	20.34
10	25	12		20.29	20.88	20.35
10	25	25		20.25	20.82	20.28
10	50	0		20.27	20.67	19.98
5	1	0	QPSK	22.91	23.26	22.78
5	1	12		23.18	23.73	23.31
5	1	24		22.94	23.20	22.97
5	12	0		22.30	22.57	22.17
5	12	7		22.26	22.64	22.20
5	12	13		22.29	22.68	22.17
5	25	0		22.22	22.69	22.19
5	1	0	16-QAM	22.02	22.07	22.03
5	1	12		22.04	22.28	21.90
5	1	24		21.99	22.26	21.90
5	12	0		21.11	21.52	21.13
5	12	7		21.16	21.69	21.36



5	12	13		21.18	21.64	21.42
5	25	0		21.30	21.83	21.15
5	1	0	64QAM	21.11	21.25	21.14
5	1	12		21.58	21.69	21.56
5	1	24		21.12	21.08	21.22
5	12	0		20.10	20.28	20.10
5	12	7		20.34	20.55	20.32
5	12	13		20.38	20.51	20.13
5	25	0		20.26	20.58	20.29



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.02	23.26	23.19
3	1	8		22.38	23.36	23.20
3	1	14		23.20	23.31	23.10
3	8	0		22.16	22.61	22.18
3	8	4		22.12	22.69	22.22
3	8	7		22.13	22.64	22.18
3	15	0		22.20	22.72	22.22
3	1	0	16-QAM	22.08	22.17	22.08
3	1	8		22.21	22.39	22.18
3	1	14		22.04	22.32	21.92
3	8	0		21.20	21.70	21.35
3	8	4		21.27	21.78	20.94
3	8	7		21.30	21.74	21.19
3	15	0		21.17	21.49	21.01
3	1	0	64QAM	20.95	21.26	21.12
3	1	8		21.19	21.65	21.16
3	1	14		21.30	21.50	21.16
3	8	0		20.14	20.44	20.02
3	8	4		19.91	20.51	19.94
3	8	7		19.76	20.45	19.91
3	15	0		20.11	20.52	19.94
1.4	1	0	QPSK	23.04	23.49	23.12
1.4	1	3		22.98	23.62	23.19
1.4	1	5		23.13	23.57	23.10
1.4	3	0		23.19	23.55	23.20
1.4	3	1		23.29	23.51	23.25
1.4	3	3		23.17	23.60	23.24
1.4	6	0		22.17	22.60	22.15
1.4	1	0	16-QAM	21.76	22.34	22.02
1.4	1	3		21.89	22.49	22.00
1.4	1	5		22.31	22.29	21.79
1.4	3	0		22.47	22.64	21.91
1.4	3	1		22.43	22.56	22.08



1.4	3	3		22.30	22.78	22.27
1.4	6	0		21.19	21.43	21.05
1.4	1	0	64QAM	21.01	21.48	21.03
1.4	1	3		20.88	21.58	21.07
1.4	1	5		20.89	21.48	21.05
1.4	3	0		21.06	21.43	20.85
1.4	3	1		21.48	21.44	20.77
1.4	3	3		21.36	21.41	21.11
1.4	6	0		19.89	20.50	19.97



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.52	23.52	23.74
20	1	49		23.86	23.90	23.95
20	1	99		23.54	23.51	23.49
20	50	0		22.95	22.81	22.98
20	50	24		22.94	22.79	22.80
20	50	50		22.88	22.69	22.69
20	100	0		22.93	22.77	22.94
20	1	0	16-QAM	22.81	22.89	22.69
20	1	49		22.81	22.45	22.66
20	1	99		22.50	22.43	22.62
20	50	0		21.89	21.87	21.98
20	50	24		21.90	21.88	21.81
20	50	50		21.91	21.78	21.66
20	100	0		21.95	21.83	21.85
20	1	0	64QAM	22.53	22.54	22.56
20	1	49		22.41	22.38	22.43
20	1	99		22.21	22.27	22.43
20	50	0		21.90	21.90	21.78
20	50	24		21.95	21.84	21.99
20	50	50		21.80	21.84	21.92
20	100	0		21.51	21.79	21.93
15	1	0	QPSK	23.82	23.71	23.91
15	1	37		23.97	23.90	23.96
15	1	74		23.73	23.62	23.70
15	36	0		22.78	22.94	22.81
15	36	20		22.90	22.87	22.85
15	36	39		23.00	22.82	22.88
15	75	0		22.98	22.88	22.79
15	1	0	16-QAM	22.94	22.88	22.75
15	1	37		22.91	22.52	22.59
15	1	74		22.85	22.59	22.71
15	36	0		21.99	21.97	21.84
15	36	20		21.92	21.91	21.81



15	36	39		21.96	21.76	21.97
15	75	0		21.84	21.93	21.75
15	1	0	64QAM	22.55	22.45	22.59
15	1	37		22.67	22.82	22.82
15	1	74		22.45	22.38	22.37
15	36	0		21.87	21.97	21.84
15	36	20		21.89	21.95	21.91
15	36	39		21.90	21.86	21.86
15	75	0		21.84	21.92	21.95



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.58	23.54	23.47
10	1	25		23.97	23.86	23.76
10	1	49		23.63	23.48	23.65
10	25	0		22.81	22.98	22.84
10	25	12		22.83	22.93	22.88
10	25	25		22.87	22.77	22.87
10	50	0		22.87	22.95	22.96
10	1	0	16-QAM	22.69	22.69	22.69
10	1	25		22.65	22.68	22.64
10	1	49		22.68	22.52	22.85
10	25	0		21.98	21.90	21.90
10	25	12		21.90	21.88	21.79
10	25	25		21.94	21.82	21.87
10	50	0		21.85	21.90	21.89
10	1	0	64QAM	22.55	22.79	22.68
10	1	25		22.58	22.32	22.46
10	1	49		22.58	22.38	22.36
10	25	0		21.96	21.89	21.92
10	25	12		21.91	21.97	21.89
10	25	25		21.86	21.81	21.87
10	50	0		21.84	21.98	21.96
5	1	0	QPSK	23.65	23.58	23.64
5	1	12		23.96	23.98	23.94
5	1	24		23.70	23.62	23.66
5	12	0		22.82	22.93	22.95
5	12	7		22.77	22.92	23.00
5	12	13		22.78	22.85	22.89
5	25	0		22.77	22.99	22.92
5	1	0	16-QAM	22.55	22.65	22.58
5	1	12		22.36	22.51	22.58
5	1	24		22.55	22.52	22.76
5	12	0		21.81	21.99	21.79
5	12	7		21.81	21.95	21.85



5	12	13		21.94	21.99	21.78
5	25	0		21.84	21.90	21.96
5	1	0	64QAM	22.42	22.49	22.41
5	1	12		22.15	22.53	22.60
5	1	24		22.36	22.29	22.26
5	12	0		21.80	21.86	21.94
5	12	7		21.80	21.95	21.90
5	12	13		21.75	21.76	21.89
5	25	0		21.95	21.89	21.95



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.93	23.64	23.47
3	1	8		23.73	23.51	23.48
3	1	14		23.73	23.57	23.43
3	8	0		22.79	22.99	22.86
3	8	4		22.83	23.00	22.94
3	8	7		22.76	22.84	22.86
3	15	0	16-QAM	22.81	22.95	22.90
3	1	0		22.72	22.58	22.68
3	1	8		22.49	22.54	22.57
3	1	14		22.57	22.64	22.64
3	8	0		21.90	21.67	21.79
3	8	4		21.72	21.90	21.93
3	8	7	64QAM	21.82	21.94	21.89
3	15	0		21.80	21.72	21.86
3	1	0		22.43	22.64	22.38
3	1	8		22.42	22.31	22.46
3	1	14		22.42	22.65	22.24
3	8	0		21.75	21.80	21.60
3	8	4	QPSK	21.78	21.86	21.89
3	8	7		21.74	21.78	21.89
3	15	0		21.79	21.95	21.83
1.4	1	0		23.68	23.69	23.70
1.4	1	3		23.69	23.71	23.62
1.4	1	5		23.59	23.68	23.71
1.4	3	0	16-QAM	23.71	23.84	23.80
1.4	3	1		23.91	23.96	23.90
1.4	3	3		23.83	23.83	23.50
1.4	6	0		22.87	22.85	22.95
1.4	1	0		22.74	22.56	22.65
1.4	1	3		22.98	22.75	22.88
1.4	1	5	16-QAM	22.55	22.89	22.75
1.4	3	0		22.88	22.90	22.70
1.4	3	1		22.98	22.92	22.96



1.4	3	3		22.95	22.84	22.89
1.4	6	0		21.87	21.84	21.80
1.4	1	0	64QAM	22.56	22.40	22.35
1.4	1	3		22.75	22.36	22.55
1.4	1	5		22.53	22.34	22.47
1.4	3	0		22.94	22.89	22.93
1.4	3	1		22.88	22.80	23.00
1.4	3	3		22.84	22.86	22.87
1.4	6	0		21.98	21.84	21.89



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.41	23.51	23.57
10	1	25		23.76	23.78	23.75
10	1	49		23.39	23.39	23.52
10	25	0		22.71	22.81	22.73
10	25	12		22.75	22.71	22.75
10	25	25		22.80	22.69	22.72
10	50	0		22.74	22.77	22.66
10	1	0	16-QAM	22.47	22.57	22.37
10	1	25		22.57	22.60	22.42
10	1	49		22.47	22.50	22.59
10	25	0		22.00	21.87	21.82
10	25	12		22.00	21.81	21.76
10	25	25		21.98	21.79	21.74
10	50	0		21.84	21.77	21.69
10	1	0	64QAM	21.55	21.60	21.73
10	1	25		22.00	21.98	21.90
10	1	49		21.52	21.61	21.67
10	25	0		20.95	20.86	21.00
10	25	12		20.96	20.80	20.65
10	25	25		20.95	20.86	20.98
10	50	0		20.71	20.84	20.76
5	1	0	QPSK	23.28	23.50	23.30
5	1	12		23.76	23.72	23.73
5	1	24		23.28	23.35	23.39
5	12	0		22.74	22.74	22.69
5	12	7		22.65	22.70	22.73
5	12	13		22.68	22.70	22.71
5	25	0		22.72	22.71	22.68
5	1	0	16-QAM	22.50	22.32	22.44
5	1	12		22.21	22.35	22.16
5	1	24		22.47	22.39	22.48
5	12	0		21.74	21.75	21.74
5	12	7		21.91	21.91	21.91



5	12	13		21.71	21.96	21.73
5	25	0		21.92	21.81	21.98
5	1	0	64QAM	21.72	21.55	21.58
5	1	12		21.81	21.97	21.78
5	1	24		21.55	21.58	21.70
5	12	0		20.84	20.84	20.82
5	12	7		20.92	20.90	20.72
5	12	13		20.82	20.85	20.84
5	25	0		20.98	20.87	20.59



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.65	23.38	23.57
3	1	8		23.78	23.79	23.75
3	1	14		23.72	23.69	23.77
3	8	0		22.74	22.85	22.70
3	8	4		22.81	22.79	22.82
3	8	7		22.73	22.75	22.79
3	15	0	16-QAM	22.65	22.63	22.69
3	1	0		22.59	22.57	22.58
3	1	8		22.25	22.52	22.29
3	1	14		22.57	22.57	22.58
3	8	0		21.84	21.78	21.76
3	8	4		21.83	21.83	21.89
3	8	7	64QAM	21.72	21.95	21.92
3	15	0		21.70	21.72	21.46
3	1	0		21.72	21.49	21.72
3	1	8		21.78	21.80	21.88
3	1	14		21.46	21.50	21.58
3	8	0		20.60	20.73	20.73
3	8	4	QPSK	20.76	20.81	20.67
3	8	7		20.62	20.61	20.75
3	15	0		20.85	20.84	20.68
1.4	1	0		23.45	23.49	23.76
1.4	1	3		23.47	23.55	23.73
1.4	1	5		23.66	23.44	23.57
1.4	3	0	16-QAM	23.75	23.77	23.79
1.4	3	1		23.72	23.73	23.70
1.4	3	3		23.70	23.70	23.78
1.4	6	0		22.77	22.72	22.78
1.4	1	0		22.84	22.51	22.65
1.4	1	3		22.85	22.50	22.58
1.4	1	5	16-QAM	22.56	22.57	22.61
1.4	3	0		22.65	22.63	22.74
1.4	3	1		22.73	22.94	22.83



1.4	3	3		22.81	22.94	22.90
1.4	6	0		21.78	21.80	21.87
1.4	1	0	64QAM	21.60	21.54	21.69
1.4	1	3		21.90	21.61	21.81
1.4	1	5		21.68	21.58	21.69
1.4	3	0		21.85	21.92	21.65
1.4	3	1		21.94	21.87	21.95
1.4	3	3		21.82	21.85	21.93
1.4	6	0		20.60	20.62	20.72



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.29	23.43	23.41
20	1	49		23.83	23.93	23.85
20	1	99		23.78	23.62	23.51
20	50	0		22.76	22.87	22.86
20	50	24		22.75	22.90	22.78
20	50	50		22.69	22.87	22.78
20	100	0		22.73	22.94	22.77
20	1	0	16-QAM	22.45	22.55	22.57
20	1	49		22.53	22.77	22.53
20	1	99		22.41	22.68	22.50
20	50	0		21.76	21.97	21.94
20	50	24		21.77	21.98	21.98
20	50	50		21.85	21.79	21.87
20	100	0		21.73	21.87	21.84
20	1	0	64QAM	21.55	21.74	21.69
20	1	49		21.93	21.79	21.67
20	1	99		21.57	21.82	21.62
20	50	0		20.80	20.91	20.95
20	50	24		20.84	20.93	20.88
20	50	50		20.83	20.90	20.87
20	100	0		20.90	20.60	20.97
15	1	0	QPSK	23.43	23.43	23.71
15	1	37		23.90	23.91	23.86
15	1	74		23.82	23.82	23.66
15	36	0		22.71	22.71	22.84
15	36	20		22.73	22.73	22.83
15	36	39		22.79	22.79	22.84
15	75	0		22.67	22.67	22.77
15	1	0	16-QAM	22.42	22.42	22.44
15	1	37		22.85	22.85	22.44
15	1	74		22.58	22.58	22.55
15	36	0		21.81	21.81	21.89
15	36	20		21.82	21.82	21.89



15	36	39		21.79	21.79	21.92
15	75	0		21.84	21.84	21.82
15	1	0	64QAM	21.63	21.63	21.73
15	1	37		20.95	20.95	21.96
15	1	74		21.73	21.73	21.69
15	36	0		20.85	20.85	20.90
15	36	20		20.92	20.92	20.97
15	36	39		20.87	20.87	20.92
15	75	0		20.86	20.85	20.83



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.51	23.62	23.35
10	1	25		23.82	23.90	23.77
10	1	49		23.68	23.67	23.42
10	25	0		22.74	22.90	22.78
10	25	12		22.72	22.87	22.80
10	25	25		22.71	22.90	22.71
10	50	0		22.68	22.83	22.76
10	1	0	16-QAM	22.50	22.69	22.46
10	1	25		22.65	22.69	22.52
10	1	49		22.56	22.71	22.50
10	25	0		21.85	21.97	21.87
10	25	12		22.00	21.95	21.88
10	25	25		21.95	21.86	21.78
10	50	0		21.87	21.91	21.86
10	1	0	64QAM	21.67	21.82	21.43
10	1	25		21.95	21.98	21.91
10	1	49		21.70	21.94	21.71
10	25	0		20.98	20.95	20.79
10	25	12		20.82	20.90	20.83
10	25	25		20.83	20.94	20.75
10	50	0		20.98	20.95	20.90
5	1	0	QPSK	23.22	23.43	23.49
5	1	12		23.86	23.91	23.84
5	1	24		23.31	23.42	23.48
5	12	0		22.57	22.96	22.77
5	12	7		22.68	22.93	22.83
5	12	13		22.70	22.90	22.72
5	25	0		22.67	22.84	22.74
5	1	0	16-QAM	22.52	22.64	22.45
5	1	12		22.64	22.96	22.13
5	1	24		22.62	22.67	22.40
5	12	0		21.68	21.96	21.75
5	12	7		21.78	20.89	21.83



5	12	13		21.80	21.98	21.80
5	25	0		21.78	21.97	21.68
5	1	0	64QAM	21.39	21.65	21.47
5	1	12		21.90	22.00	21.80
5	1	24		21.53	21.81	21.41
5	12	0		20.81	20.90	20.79
5	12	7		20.94	20.89	20.98
5	12	13		20.86	20.83	20.96
5	25	0		20.91	20.76	20.65



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.48	23.22	23.39
10	1	25		23.75	23.55	23.84
10	1	49		23.29	23.42	23.44
10	25	0		22.57	22.59	22.67
10	25	12		22.50	22.60	22.62
10	25	25		22.59	22.60	22.83
10	50	0		22.54	22.65	22.66
10	1	0	16-QAM	22.21	22.04	22.10
10	1	25		22.23	22.32	22.39
10	1	49		22.37	22.55	22.51
10	25	0		21.51	21.65	21.78
10	25	12		21.48	21.71	21.72
10	25	25		21.68	21.72	21.95
10	50	0		21.52	21.76	21.68
10	1	0	64QAM	21.18	21.25	21.77
10	1	25		21.50	21.58	21.70
10	1	49		21.48	21.63	21.67
10	25	0		20.80	20.43	20.87
10	25	12		20.81	20.88	20.89
10	25	25		20.83	20.87	20.99
10	50	0		20.47	20.57	20.68
5	1	0	QPSK	23.20	23.25	23.23
5	1	12		23.61	23.66	23.94
5	1	24		23.39	23.31	23.36
5	12	0		22.66	22.58	22.65
5	12	7		22.61	22.62	22.65
5	12	13		22.59	22.62	22.72
5	25	0		22.59	22.62	22.65
5	1	0	16-QAM	22.67	22.31	22.40
5	1	12		22.50	22.11	22.60
5	1	24		22.42	22.36	22.54
5	12	0		21.80	21.73	21.87
5	12	7		21.84	21.62	21.87



5	12	13		21.70	21.85	21.91
5	25	0		21.71	21.75	21.89
5	1	0	64QAM	21.45	21.45	21.62
5	1	12		22.00	21.96	21.97
5	1	24		21.50	21.44	21.67
5	12	0		20.76	20.69	20.89
5	12	7		20.80	20.67	20.89
5	12	13		20.66	20.76	20.80
5	25	0		20.81	20.84	20.49



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.60	23.71	23.63
3	1	8		23.65	23.84	23.75
3	1	14		23.56	23.65	23.44
3	8	0		22.77	22.61	22.96
3	8	4		22.70	22.62	22.83
3	8	7		22.70	22.65	22.86
3	15	0		22.67	22.72	22.71
3	1	0	16-QAM	22.52	22.54	22.43
3	1	8		22.36	22.29	22.59
3	1	14		22.55	22.57	22.60
3	8	0		21.70	21.78	21.86
3	8	4		21.64	21.75	21.77
3	8	7		21.86	21.73	21.93
3	15	0		21.68	21.62	21.91
3	1	0	64QAM	21.72	21.39	21.93
3	1	8		21.98	21.97	21.98
3	1	14		21.49	21.70	21.71
3	8	0		20.67	20.58	20.70
3	8	4		20.72	20.54	20.78
3	8	7		20.78	20.53	20.56
3	15	0		20.57	20.60	20.78
1.4	1	0	QPSK	23.59	23.53	23.74
1.4	1	3		23.57	23.65	23.70
1.4	1	5		23.54	23.62	23.72
1.4	3	0		23.64	23.64	23.40
1.4	3	1		23.65	23.70	23.45
1.4	3	3		23.61	23.63	23.65
1.4	6	0		22.59	22.55	22.71
1.4	1	0	16-QAM	22.19	22.30	22.66
1.4	1	3		22.36	22.33	22.62
1.4	1	5		22.30	22.24	22.48
1.4	3	0		22.52	22.59	22.75
1.4	3	1		22.57	22.60	22.76



1.4	3	3		22.53	22.81	22.65
1.4	6	0		21.49	21.61	21.74
1.4	1	0	64QAM	21.69	21.80	21.77
1.4	1	3		21.81	21.77	21.69
1.4	1	5		21.91	21.56	21.47
1.4	3	0		21.32	21.22	21.93
1.4	3	1		21.80	21.20	21.97
1.4	3	3		21.59	21.49	21.96
1.4	6	0		20.47	20.43	20.74



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.29	23.34	23.24
10	1	25		23.55	23.56	23.68
10	1	49		23.50	23.29	23.33
10	25	0		22.59	22.55	22.59
10	25	12		22.60	22.53	22.57
10	25	25		22.57	22.64	22.61
10	50	0		22.57	22.63	22.50
10	1	0	16-QAM	22.15	22.24	22.20
10	1	25		22.42	22.32	22.45
10	1	49		22.57	22.30	22.32
10	25	0		21.73	21.76	21.62
10	25	12		21.71	21.83	21.61
10	25	25		21.66	22.00	21.60
10	50	0		21.48	21.57	21.42
10	1	0	64QAM	21.45	21.23	21.33
10	1	25		21.71	21.51	21.60
10	1	49		21.67	21.47	21.42
10	25	0		20.50	20.72	20.77
10	25	12		20.79	20.75	20.86
10	25	25		20.58	20.62	20.73
10	50	0		20.66	20.56	20.59
5	1	0	QPSK	23.56	23.41	23.49
5	1	12		23.68	23.90	23.78
5	1	24		23.57	23.33	23.12
5	12	0		22.51	22.55	22.54
5	12	7		22.64	22.59	22.60
5	12	13		22.58	22.57	22.48
5	25	0		22.58	22.52	22.51
5	1	0	16-QAM	22.26	22.17	22.62
5	1	12		22.59	22.33	22.35
5	1	24		22.26	22.40	22.23
5	12	0		21.55	21.49	21.77
5	12	7		21.48	21.68	21.73



5	12	13		21.70	21.60	21.45
5	25	0		21.68	21.49	21.56
5	1	0	64QAM	21.41	21.52	21.49
5	1	12		21.85	21.90	21.98
5	1	24		21.43	21.40	21.24
5	12	0		20.53	20.60	20.65
5	12	7		20.67	20.93	20.70
5	12	13		20.62	20.73	20.68
5	25	0		20.40	20.71	20.58



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.99	22.96	22.89
15	1	37		23.64	23.61	23.44
15	1	74		23.12	23.09	22.78
15	36	0		22.38	22.35	22.22
15	36	20		22.39	22.36	22.23
15	36	39		22.37	22.34	22.10
15	75	0		22.31	22.28	22.24
15	1	0	16-QAM	22.02	21.99	22.08
15	1	37		22.45	22.42	22.20
15	1	74		21.91	21.88	21.86
15	36	0		21.22	21.19	21.15
15	36	20		21.22	21.19	21.15
15	36	39		21.25	21.22	20.93
15	75	0		21.22	21.19	21.21
15	1	0	64QAM	21.09	21.06	21.02
15	1	37		21.18	21.15	21.46
15	1	74		20.95	20.92	20.85
15	36	0		20.39	20.36	20.22
15	36	20		20.23	20.20	20.15
15	36	39		20.42	20.39	20.17
15	75	0		20.52	20.49	20.11



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.47	23.42	23.67
10	1	25		23.72	23.77	23.56
10	1	49		23.07	22.88	22.87
10	25	0		22.29	22.31	22.20
10	25	12		22.29	22.27	22.16
10	25	25		22.25	22.30	22.07
10	50	0		22.26	22.34	22.08
10	1	0	16-QAM	22.10	22.01	21.87
10	1	25		22.08	22.39	21.84
10	1	49		22.00	21.95	21.78
10	25	0		21.48	21.40	21.17
10	25	12		21.21	21.25	21.24
10	25	25		21.23	21.52	21.05
10	50	0		21.27	21.31	21.07
10	1	0	64QAM	21.14	20.89	20.96
10	1	25		21.20	21.34	21.17
10	1	49		21.11	21.00	20.85
10	25	0		20.46	20.52	20.32
10	25	12		20.53	20.52	20.11
10	25	25		20.36	20.47	20.21
10	50	0		20.32	20.46	20.02
5	1	0	QPSK	22.89	22.83	22.69
5	1	12		23.22	23.32	23.20
5	1	24		22.99	22.85	22.63
5	12	0		22.28	22.34	22.01
5	12	7		22.26	22.38	22.01
5	12	13		22.21	22.28	22.11
5	25	0		22.26	22.30	22.08
5	1	0	16-QAM	22.00	22.01	21.92
5	1	12		22.12	22.11	21.79
5	1	24		22.00	22.02	21.74
5	12	0		21.19	21.17	21.10
5	12	7		21.19	21.19	21.10



5	12	13		21.03	21.10	21.00
5	25	0		21.00	21.21	20.89
5	1	0	64QAM	20.91	20.96	20.63
5	1	12		21.50	21.53	21.32
5	1	24		21.03	21.00	20.65
5	12	0		20.35	20.24	20.18
5	12	7		20.37	20.39	20.18
5	12	13		20.33	20.23	20.01
5	25	0		20.07	20.47	19.85



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.11	23.09	22.82
3	1	8		23.29	23.29	23.04
3	1	14		23.23	23.24	22.66
3	8	0		22.23	22.51	22.07
3	8	4		22.25	22.32	22.09
3	8	7		22.30	22.34	21.99
3	15	0		22.27	22.26	22.06
3	1	0	16-QAM	21.87	21.85	22.12
3	1	8		21.98	22.45	22.21
3	1	14		21.94	21.98	21.89
3	8	0		21.25	21.45	21.01
3	8	4		21.40	21.01	20.92
3	8	7		20.96	21.37	21.01
3	15	0		20.92	21.25	21.03
3	1	0	64QAM	21.21	21.13	21.06
3	1	8		21.26	21.52	21.07
3	1	14		20.99	21.06	20.80
3	8	0		20.13	20.17	19.97
3	8	4		20.18	20.17	19.89
3	8	7		20.14	20.16	19.97
3	15	0		20.17	20.14	20.07
1.4	1	0	QPSK	22.96	23.22	23.04
1.4	1	3		22.97	23.36	23.10
1.4	1	5		22.92	23.26	22.95
1.4	3	0		23.24	23.29	23.14
1.4	3	1		23.30	23.33	23.14
1.4	3	3		23.21	23.32	23.09
1.4	6	0		22.19	22.30	22.05
1.4	1	0	16-QAM	21.96	21.98	21.86
1.4	1	3		22.06	22.50	21.86
1.4	1	5		21.87	22.40	22.04
1.4	3	0		22.04	22.28	22.17
1.4	3	1		22.23	22.10	22.25



1.4	3	3		22.28	22.22	22.29
1.4	6	0		21.12	20.98	21.02
1.4	1	0	64QAM	21.12	21.10	20.88
1.4	1	3		21.27	21.33	21.10
1.4	1	5		21.11	21.13	20.97
1.4	3	0		21.15	20.98	21.14
1.4	3	1		21.22	21.39	20.58
1.4	3	3		21.05	21.22	20.84
1.4	6	0		20.11	20.11	19.85



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.89	23.80	23.90
20	1	49		23.77	23.91	23.76
20	1	99		23.70	23.73	23.69
20	50	0		22.92	22.90	22.87
20	50	24		22.91	22.81	22.82
20	50	50		22.89	22.94	22.76
20	100	0		22.94	22.85	22.76
20	1	0	16-QAM	22.52	22.53	22.47
20	1	49		22.48	22.50	22.54
20	1	99		22.28	22.34	22.36
20	50	0		21.89	21.83	21.82
20	50	24		21.76	21.77	21.77
20	50	50		21.74	21.90	21.73
20	100	0		21.79	21.72	21.91
20	1	0	64QAM	21.25	21.21	21.25
20	1	49		21.30	21.58	21.52
20	1	99		21.13	21.12	20.98
20	50	0		20.88	20.87	20.75
20	50	24		20.89	20.85	20.80
20	50	50		20.88	20.93	20.76
20	100	0		20.82	20.94	20.90
15	1	0	QPSK	23.79	23.75	23.66
15	1	37		23.80	23.88	23.89
15	1	74		23.82	23.77	23.79
15	36	0		22.98	22.89	22.82
15	36	20		22.94	22.84	22.76
15	36	39		22.89	22.91	22.78
15	75	0		22.92	22.85	22.75
15	1	0	16-QAM	22.58	22.55	22.37
15	1	37		22.97	22.91	22.78
15	1	74		22.55	22.36	22.57
15	36	0		21.89	21.76	21.78
15	36	20		21.94	21.77	21.58



15	36	39		21.92	21.84	21.72
15	75	0		21.86	21.80	21.74
15	1	0	64QAM	21.33	21.23	21.15
15	1	37		21.86	21.71	21.65
15	1	74		21.29	21.24	21.06
15	36	0		20.90	20.96	20.85
15	36	20		20.89	20.90	20.60
15	36	39		21.00	20.98	20.86
15	75	0		20.84	20.88	20.78



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.90	23.76	23.89
10	1	25		23.75	23.74	23.62
10	1	49		23.72	23.90	23.67
10	25	0		22.87	22.88	22.80
10	25	12		22.99	22.88	22.84
10	25	25		22.95	22.97	22.79
10	50	0		22.94	22.91	22.83
10	1	0	16-QAM	22.80	22.55	22.48
10	1	25		22.71	22.52	22.32
10	1	49		22.22	22.52	22.61
10	25	0		21.90	21.92	21.94
10	25	12		21.84	21.89	21.68
10	25	25		21.80	21.89	21.92
10	50	0		21.89	21.81	21.74
10	1	0	64QAM	21.35	21.50	21.50
10	1	25		21.43	21.80	21.88
10	1	49		21.13	21.20	21.50
10	25	0		20.79	20.50	20.77
10	25	12		20.91	20.56	20.76
10	25	25		20.89	20.56	20.96
10	50	0		20.92	20.81	20.76
5	1	0	QPSK	23.71	23.64	23.47
5	1	12		23.90	23.89	23.78
5	1	24		23.59	23.81	23.54
5	12	0		22.93	22.95	22.66
5	12	7		22.83	22.82	22.79
5	12	13		22.93	22.82	22.80
5	25	0		22.93	22.78	22.74
5	1	0	16-QAM	22.72	22.37	22.49
5	1	12		22.84	22.91	22.63
5	1	24		22.60	22.68	22.08
5	12	0		21.82	21.74	21.47
5	12	7		21.81	21.77	21.57



5	12	13		21.76	21.91	21.56
5	25	0		21.98	21.89	21.93
5	1	0	64QAM	21.16	21.22	20.88
5	1	12		21.69	21.68	21.49
5	1	24		21.10	21.16	20.98
5	12	0		20.90	20.79	20.85
5	12	7		20.75	20.90	20.96
5	12	13		20.76	20.94	20.93
5	25	0		20.94	21.00	20.64



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.68	23.30	23.45
20	1	49		23.91	23.62	23.32
20	1	99		23.63	23.35	23.08
20	50	0		22.75	22.48	22.52
20	50	24		22.93	22.58	22.46
20	50	50		22.71	22.49	22.28
20	100	0		22.80	22.49	22.41
20	1	0	16-QAM	22.20	22.29	22.02
20	1	49		22.87	22.72	22.12
20	1	99		22.76	21.97	22.69
20	50	0		21.84	21.45	21.63
20	50	24		21.73	21.85	21.40
20	50	50		21.71	21.58	21.34
20	100	0		21.69	21.57	21.34
20	1	0	64QAM	21.06	20.88	21.15
20	1	49		21.30	21.16	21.13
20	1	99		21.04	20.83	21.00
20	50	0		20.65	20.61	20.66
20	50	24		20.69	20.91	20.52
20	50	50		20.66	20.64	20.09
20	100	0		20.72	20.73	20.57
15	1	0	QPSK	23.69	23.21	23.30
15	1	37		23.77	23.87	23.20
15	1	74		23.67	23.19	23.29
15	36	0		22.76	22.83	22.25
15	36	20		22.76	22.60	22.18
15	36	39		22.77	22.42	22.18
15	75	0		22.69	22.51	22.30
15	1	0	16-QAM	22.58	21.87	22.20
15	1	37		22.17	22.56	22.23
15	1	74		22.21	21.67	21.80
15	36	0		21.68	21.52	21.17
15	36	20		21.79	21.46	21.15



15	36	39		21.79	21.54	21.25
15	75	0		21.61	21.56	21.30
15	1	0	64QAM	21.10	21.18	21.18
15	1	37		21.02	21.30	21.13
15	1	74		21.04	20.87	21.19
15	36	0		20.65	20.60	20.19
15	36	20		20.47	20.87	20.20
15	36	39		20.48	20.79	20.20
15	75	0		20.61	20.78	20.28



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.66	23.27	23.23
10	1	25		23.60	23.68	23.16
10	1	49		23.60	23.35	23.14
10	25	0		22.83	22.46	22.28
10	25	12		22.72	22.62	22.19
10	25	25		22.74	22.44	22.11
10	50	0		22.76	22.67	22.33
10	1	0	16-QAM	22.57	22.03	21.82
10	1	25		22.39	22.35	21.94
10	1	49		22.26	22.24	21.78
10	25	0		21.90	21.72	21.63
10	25	12		21.94	21.78	21.50
10	25	25		21.00	21.70	21.48
10	50	0		21.74	21.47	21.13
10	1	0	64QAM	21.05	21.03	21.58
10	1	25		21.29	21.21	21.37
10	1	49		20.96	20.91	21.31
10	25	0		20.61	20.80	20.66
10	25	12		20.82	20.96	20.65
10	25	25		20.73	20.87	20.98
10	50	0		20.58	20.61	20.28
5	1	0	QPSK	23.49	23.27	23.61
5	1	12		23.80	23.50	23.31
5	1	24		23.40	23.25	23.77
5	12	0		22.83	22.54	22.15
5	12	7		22.82	22.76	22.18
5	12	13		22.77	22.80	22.18
5	25	0		22.74	22.72	22.19
5	1	0	16-QAM	22.07	22.34	22.77
5	1	12		22.70	22.57	22.15
5	1	24		22.09	22.31	22.56
5	12	0		21.69	21.38	21.30
5	12	7		21.75	21.57	21.17



5	12	13		21.73	21.55	21.13
5	25	0		21.52	21.76	21.39
5	1	0	64QAM	20.89	20.69	21.40
5	1	12		21.53	20.98	21.03
5	1	24		20.94	20.93	21.41
5	12	0		20.79	20.68	20.28
5	12	7		20.56	20.73	19.97
5	12	13		20.55	20.77	20.02
5	25	0		20.61	20.86	20.22

**ERP/EIRP**

LTE Band 2 (GT - LC = -6.00 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
(MHz)									
Conducted Power (dBm)	22.98	23.62	23.19	22.38	23.36	23.20	23.18	23.73	23.31
Conducted Power (Watts)	0.1986	0.2301	0.2084	0.1730	0.2168	0.2089	0.2080	0.2360	0.2143
EIRP(dBm)	16.98	17.62	17.19	16.38	17.36	17.20	17.18	17.73	17.31
EIRP(Watts)	0.0499	0.0578	0.0524	0.0435	0.0545	0.0525	0.0522	0.0593	0.0538

LTE Band 2 (GT - LC = -6.00 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
(MHz)									
Conducted Power (dBm)	23.42	23.65	23.46	23.55	23.69	23.41	23.32	23.85	23.46
Conducted Power (Watts)	0.2198	0.2317	0.2218	0.2265	0.2339	0.2193	0.2148	0.2427	0.2218
EIRP(dBm)	17.42	17.65	17.46	17.55	17.69	17.41	17.32	17.85	17.46
EIRP(Watts)	0.0552	0.0582	0.0557	0.0569	0.0587	0.0551	0.0540	0.0610	0.0557



LTE Band 2 (GT - LC = -6.00 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
(MHz)									
Conducted Power (dBm)	22.30	22.78	22.27	22.21	22.39	22.18	22.04	22.28	21.90
Conducted Power (Watts)	0.1698	0.1897	0.1687	0.1663	0.1734	0.1652	0.1600	0.1690	0.1549
EIRP(dBm)	16.30	16.78	16.27	16.21	16.39	16.18	16.04	16.28	15.90
EIRP(Watts)	0.0427	0.0476	0.0424	0.0418	0.0436	0.0415	0.0402	0.0425	0.0389

LTE Band 2 (GT - LC = -6.00 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
(MHz)									
Conducted Power (dBm)	22.11	22.43	22.01	22.21	22.61	22.03	22.18	22.39	22.03
Conducted Power (Watts)	0.1626	0.1750	0.1589	0.1663	0.1824	0.1596	0.1652	0.1734	0.1596
EIRP(dBm)	16.11	16.43	16.01	16.21	16.61	16.03	16.18	16.39	16.03
EIRP(Watts)	0.0408	0.0440	0.0399	0.0418	0.0458	0.0401	0.0415	0.0436	0.0401



LTE Band 2 (GT - LC = -6.00 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
(MHz)									
Conducted Power (dBm)	20.88	21.58	21.07	21.19	21.65	21.16	21.58	21.69	21.56
Conducted Power (Watts)	0.1225	0.1439	0.1279	0.1315	0.1462	0.1306	0.1439	0.1476	0.1432
EIRP(dBm)	14.88	15.58	15.07	15.19	15.65	15.16	15.58	15.69	15.56
EIRP(Watts)	0.0308	0.0361	0.0321	0.0330	0.0367	0.0328	0.0361	0.0371	0.0360

LTE Band 2 (GT - LC = -6.00 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
(MHz)									
Conducted Power (dBm)	21.35	21.65	21.10	21.50	21.89	21.52	21.94	21.63	21.91
Conducted Power (Watts)	0.1365	0.1462	0.1288	0.1413	0.1545	0.1419	0.1563	0.1455	0.1552
EIRP(dBm)	15.35	15.65	15.10	15.50	15.89	15.52	15.94	15.63	15.91
EIRP(Watts)	0.0343	0.0367	0.0324	0.0355	0.0388	0.0356	0.0393	0.0366	0.0390



LTE Band 4 (GT - LC = -6.00 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
(MHz)									
Conducted Power (dBm)	23.91	23.96	23.90	23.93	23.64	23.47	23.96	23.98	23.94
Conducted Power (Watts)	0.2460	0.2489	0.2455	0.2472	0.2312	0.2223	0.2489	0.2500	0.2477
EIRP(dBm)	17.91	17.96	17.90	17.93	17.64	17.47	17.96	17.98	17.94
EIRP(Watts)	0.0618	0.0625	0.0617	0.0621	0.0581	0.0558	0.0625	0.0628	0.0622

LTE Band 4 (GT - LC = -6.00 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
(MHz)									
Conducted Power (dBm)	23.97	23.86	23.76	23.97	23.90	23.96	23.86	23.90	23.95
Conducted Power (Watts)	0.2495	0.2432	0.2377	0.2495	0.2455	0.2489	0.2432	0.2455	0.2483
EIRP(dBm)	17.97	17.86	17.76	17.97	17.90	17.96	17.86	17.90	17.95
EIRP(Watts)	0.0627	0.0611	0.0597	0.0627	0.0617	0.0625	0.0611	0.0617	0.0624



LTE Band 4 (GT - LC = -6.00 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
(MHz)									
Conducted Power (dBm)	22.98	22.75	22.88	22.72	22.58	22.68	22.55	22.52	22.76
Conducted Power (Watts)	0.1986	0.1884	0.1941	0.1871	0.1811	0.1854	0.1799	0.1786	0.1888
EIRP(dBm)	16.98	16.75	16.88	16.72	16.58	16.68	16.55	16.52	16.76
EIRP(Watts)	0.0499	0.0473	0.0488	0.0470	0.0455	0.0466	0.0452	0.0449	0.0474

LTE Band 4 (GT - LC = -6.00 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
(MHz)									
Conducted Power (dBm)	22.68	22.52	22.85	22.94	22.88	22.75	22.81	22.89	22.69
Conducted Power (Watts)	0.1854	0.1786	0.1928	0.1968	0.1941	0.1884	0.1910	0.1945	0.1858
EIRP(dBm)	16.68	16.52	16.85	16.94	16.88	16.75	16.81	16.89	16.69
EIRP(Watts)	0.0466	0.0449	0.0484	0.0494	0.0488	0.0473	0.0480	0.0489	0.0467



LTE Band 4 (GT - LC = -6.00 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
(MHz)									
Conducted Power (dBm)	22.88	22.80	23.00	22.42	22.65	22.24	22.15	22.53	22.60
Conducted Power (Watts)	0.1941	0.1905	0.1995	0.1746	0.1841	0.1675	0.1641	0.1791	0.1820
EIRP(dBm)	16.88	16.80	17.00	16.42	16.65	16.24	16.15	16.53	16.60
EIRP(Watts)	0.0488	0.0479	0.0501	0.0439	0.0462	0.0421	0.0412	0.0450	0.0457

LTE Band 4 (GT - LC = -6.00 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
(MHz)									
Conducted Power (dBm)	22.55	22.79	22.68	22.67	22.82	22.82	22.53	22.54	22.56
Conducted Power (Watts)	0.1799	0.1901	0.1854	0.1849	0.1914	0.1914	0.1791	0.1795	0.1803
EIRP(dBm)	16.55	16.79	16.68	16.67	16.82	16.82	16.53	16.54	16.56
EIRP(Watts)	0.0452	0.0478	0.0466	0.0465	0.0481	0.0481	0.0450	0.0451	0.0453



LTE Band 7 (GT - LC = -5.00 dB) QPSK			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	23.86	23.91	23.84
Conducted Power (Watts)	0.2432	0.2460	0.2421
EIRP(dBm)	18.86	18.91	18.84
EIRP(Watts)	0.0769	0.0778	0.0766

LTE Band 7 (GT - LC = -5.00 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)	23.82	23.90	23.77	23.90	23.91	23.86	23.83	23.93	23.85
Conducted Power (Watts)	0.2410	0.2455	0.2382	0.2455	0.2460	0.2432	0.2415	0.2472	0.2427
EIRP(dBm)	18.82	18.90	18.77	18.90	18.91	18.86	18.83	18.93	18.85
EIRP(Watts)	0.0762	0.0776	0.0753	0.0776	0.0778	0.0769	0.0764	0.0782	0.0767



LTE Band 7 (GT - LC = -5.00 dB) 16QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	22.64	22.96	22.13
Conducted Power (Watts)	0.1837	0.1977	0.1633
EIRP(dBm)	17.64	17.96	17.13
EIRP(Watts)	0.0581	0.0625	0.0516

LTE Band 7 (GT - LC = -5.00 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)	22.56	22.71	22.50	22.85	22.85	22.44	22.53	22.77	22.53
Conducted Power (Watts)	0.1803	0.1866	0.1778	0.1928	0.1928	0.1754	0.1791	0.1892	0.1791
EIRP(dBm)	17.56	17.71	17.50	17.85	17.85	17.44	17.53	17.77	17.53
EIRP(Watts)	0.0570	0.0590	0.0562	0.0610	0.0610	0.0555	0.0566	0.0598	0.0566



LTE Band 7 (GT - LC = -5.00 dB) 64QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	21.90	22.00	21.80
Conducted Power (Watts)	0.1549	0.1585	0.1514
EIRP(dBm)	16.90	17.00	16.80
EIRP(Watts)	0.0490	0.0501	0.0479

LTE Band 7 (GT - LC = -5.00 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)	21.95	21.98	21.91	20.95	20.95	21.96	21.93	21.79	21.67
Conducted Power (Watts)	0.1567	0.1578	0.1552	0.1245	0.1245	0.1570	0.1560	0.1510	0.1469
EIRP(dBm)	16.95	16.98	16.91	15.95	15.95	16.96	16.93	16.79	16.67
EIRP(Watts)	0.0495	0.0499	0.0491	0.0394	0.0394	0.0497	0.0493	0.0478	0.0465



LTE Band 12 (GT - LC = -8.00 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)	23.59	23.53	23.74	23.65	23.84	23.75	23.61	23.66	23.94
Conducted Power (Watts)	0.2286	0.2254	0.2366	0.2317	0.2421	0.2371	0.2296	0.2323	0.2477
ERP(dBm)	13.44	13.38	13.59	13.50	13.69	13.60	13.46	13.51	13.79
ERP(Watts)	0.0221	0.0218	0.0229	0.0224	0.0234	0.0229	0.0222	0.0224	0.0239

LTE Band 12 (GT - LC = -8.00 dB) QPSK			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	23.75	23.55	23.84
Conducted Power (Watts)	0.2371	0.2265	0.2421
ERP(dBm)	13.60	13.40	13.69
ERP(Watts)	0.0229	0.0219	0.0234



LTE Band 12 (GT - LC = -8.00 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)	22.53	22.81	22.65	22.55	22.57	22.60	22.67	22.31	22.40
Conducted Power (Watts)	0.1791	0.1910	0.1841	0.1799	0.1807	0.1820	0.1849	0.1702	0.1738
ERP(dBm)	12.38	12.66	12.50	12.40	12.42	12.45	12.52	12.16	12.25
ERP(Watts)	0.0173	0.0185	0.0178	0.0174	0.0175	0.0176	0.0179	0.0164	0.0168

LTE Band 12 (GT - LC = -8.00 dB) 16QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	22.37	22.55	22.51
Conducted Power (Watts)	0.1726	0.1799	0.1782
ERP(dBm)	12.22	12.40	12.36
ERP(Watts)	0.0167	0.0174	0.0172



LTE Band 12 (GT - LC = -8.00 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)	21.80	21.20	21.97	21.98	21.97	21.98	22.00	21.96	21.97
Conducted Power (Watts)	0.1514	0.1318	0.1574	0.1578	0.1574	0.1578	0.1585	0.1570	0.1574
ERP(dBm)	11.65	11.05	11.82	11.83	11.82	11.83	11.85	11.81	11.82
ERP(Watts)	0.0146	0.0127	0.0152	0.0152	0.0152	0.0152	0.0153	0.0152	0.0152

LTE Band 12 (GT - LC = -8.00 dB) 64QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	21.18	21.25	21.77
Conducted Power (Watts)	0.1312	0.1334	0.1503
ERP(dBm)	11.03	11.10	11.62
ERP(Watts)	0.0127	0.0129	0.0145



LTE Band 26 (GT - LC = -7.00 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	22.97	23.36	23.10	23.29	23.29	23.04	23.22	23.32	23.20
Conducted Power (Watts)	0.1982	0.2168	0.2042	0.2133	0.2133	0.2014	0.2099	0.2148	0.2089
ERP(dBm)	13.82	14.21	13.95	14.14	14.14	13.89	14.07	14.17	14.05
ERP(Watts)	0.0241	0.0264	0.0248	0.0259	0.0259	0.0245	0.0255	0.0261	0.0254

LTE Band 26 (GT - LC = -7.00 dB) QPSK							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency	829	836.5	844	831.5	836.5	841.5	821.5
(MHz)							
Conducted Power (dBm)	23.72	23.77	23.56	23.64	23.61	23.44	23.54
Conducted Power (Watts)	0.2355	0.2382	0.2270	0.2312	0.2296	0.2208	0.2259
ERP(dBm)	14.57	14.62	14.41	14.49	14.46	14.29	14.39
ERP(Watts)	0.0286	0.0290	0.0276	0.0281	0.0279	0.0269	0.0275



LTE Band 26 (GT - LC = -7.00 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	22.06	22.50	21.86	21.98	22.45	22.21	22.12	22.11	21.79
Conducted Power (Watts)	0.1607	0.1778	0.1535	0.1578	0.1758	0.1663	0.1629	0.1626	0.1510
ERP(dBm)	12.91	13.35	12.71	12.83	13.30	13.06	12.97	12.96	12.64
ERP(Watts)	0.0195	0.0216	0.0187	0.0192	0.0214	0.0202	0.0198	0.0198	0.0184

LTE Band 26 (GT - LC = -7.00 dB) 16QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency	829	836.5	844	831.5	836.5	841.5	821.5
(MHz)							
Conducted Power (dBm)	22.08	22.39	21.84	22.45	22.42	22.20	22.33
Conducted Power (Watts)	0.1614	0.1734	0.1528	0.1758	0.1746	0.1660	0.1710
ERP(dBm)	12.93	13.24	12.69	13.30	13.27	13.05	13.18
ERP(Watts)	0.0196	0.0211	0.0186	0.0214	0.0212	0.0202	0.0208



LTE Band 26 (GT - LC = -7.00 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	21.22	21.39	20.58	21.26	21.52	21.07	21.50	21.53	21.32
Conducted Power (Watts)	0.1324	0.1377	0.1143	0.1337	0.1419	0.1279	0.1413	0.1422	0.1355
ERP(dBm)	12.07	12.24	11.43	12.11	12.37	11.92	12.35	12.38	12.17
ERP(Watts)	0.0161	0.0167	0.0139	0.0163	0.0173	0.0156	0.0172	0.0173	0.0165

LTE Band 26 (GT - LC = -7.00 dB) 64QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency	829	836.5	844	831.5	836.5	841.5	821.5
(MHz)							
Conducted Power (dBm)	21.20	21.34	21.17	21.18	21.15	21.46	21.51
Conducted Power (Watts)	0.1318	0.1361	0.1309	0.1312	0.1303	0.1400	0.1416
ERP(dBm)	12.05	12.19	12.02	12.03	12.00	12.31	12.36
ERP(Watts)	0.0160	0.0166	0.0159	0.0160	0.0158	0.0170	0.0172



LTE Band 41 ($G_T - L_C = -6.00$ dB) QPSK									
Bandwidth	5M			10M			15M		
Channel	40065	40640	41215	40090	40640	41190	40115	40640	41165
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2537.5	2595	2652.5	2540	2595	2650	2542.5	2595	2647.5
(MHz)									
Conducted Power (dBm)	23.80	23.50	23.31	23.66	23.27	23.23	23.77	23.87	23.20
Conducted Power (Watts)	0.2399	0.2239	0.2143	0.2323	0.2123	0.2104	0.2382	0.2438	0.2089
EIRP(dBm)	17.80	17.50	17.31	17.66	17.27	17.23	17.77	17.87	17.20
EIRP(Watts)	0.0603	0.0562	0.0538	0.0583	0.0533	0.0528	0.0598	0.0612	0.0525

LTE Band 41 ($G_T - L_C = -6.00$ dB) QPSK			
Bandwidth	20M		
Channel	40140	40640	41140
	(Low)	(Mid)	(High)
Frequency	2545	2595	2645
(MHz)			
Conducted Power (dBm)	23.91	23.62	23.32
Conducted Power (Watts)	0.2460	0.2301	0.2148
EIRP(dBm)	17.91	17.62	17.32
EIRP(Watts)	0.0618	0.0578	0.0540

LTE Band 41 ($G_T - L_C = -6.00$ dB) 16QAM									
Bandwidth	5M			10M			15M		
Channel	40065	40640	41215	40090	40640	41190	40115	40640	41165
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2537.5	2595	2652.5	2540	2595	2650	2542.5	2595	2647.5
(MHz)									
Conducted Power (dBm)	22.07	22.34	22.77	22.57	22.03	21.82	22.58	21.87	22.20
Conducted Power (Watts)	0.1611	0.1714	0.1892	0.1807	0.1596	0.1521	0.1811	0.1538	0.1660
EIRP(dBm)	16.07	16.34	16.77	16.57	16.03	15.82	16.58	15.87	16.20
EIRP(Watts)	0.0405	0.0431	0.0475	0.0454	0.0401	0.0382	0.0455	0.0386	0.0417

LTE Band 41 ($G_T - L_C = -6.00$ dB) 16QAM			
Bandwidth	20M		
Channel	40140	40640	41140
	(Low)	(Mid)	(High)
Frequency	2545	2595	2645
(MHz)			
Conducted Power (dBm)	22.87	22.72	22.77
Conducted Power (Watts)	0.1936	0.1871	0.1892
EIRP(dBm)	16.87	16.72	16.77
EIRP(Watts)	0.0486	0.0470	0.0475



LTE Band 41 ($G_T - L_C = -6.00$ dB) 64QAM									
Bandwidth	5M			10M			15M		
Channel	40065	40640	41215	40090	40640	41190	40115	40640	41165
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2537.5	2595	2652.5	2540	2595	2650	2542.5	2595	2647.5
(MHz)									
Conducted Power (dBm)	21.53	20.98	21.03	21.05	21.03	21.58	21.04	20.87	21.19
Conducted Power (Watts)	0.1422	0.1253	0.1268	0.1274	0.1268	0.1439	0.1271	0.1222	0.1315
EIRP(dBm)	15.53	14.98	15.03	15.05	15.03	15.58	15.04	14.87	15.19
EIRP(Watts)	0.0357	0.0315	0.0318	0.0320	0.0318	0.0361	0.0319	0.0307	0.0330

LTE Band 41 ($G_T - L_C = -6.00$ dB) 64QAM			
Bandwidth	20M		
Channel	40140	40640	41140
	(Low)	(Mid)	(High)
Frequency	2545	2595	2645
(MHz)			
Conducted Power (dBm)	21.30	21.16	21.13
Conducted Power (Watts)	0.1349	0.1306	0.1297
EIRP(dBm)	15.30	15.16	15.13
EIRP(Watts)	0.0339	0.0328	0.0326

**Peak-to-Average Ratio**

Mode	LTE Band 2 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.49	4.35	5.42	5.39	PASS
Middle CH	4.41	4.84	5.57	6.09	
Highest CH	4.43	4.75	5.30	5.74	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	6.32	6.26	PASS		
Middle CH	6.52	6.35			
Highest CH	6.43	6.38			

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.36	4.23	4.58	5.16	PASS
Middle CH	3.74	4.93	4.90	6.09	
Highest CH	4.75	4.52	5.97	5.54	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	4.84	5.25	PASS		
Middle CH	5.01	6.12			
Highest CH	6.06	5.59			

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.48	4.35	4.46	5.36	PASS
Middle CH	4.35	4.72	5.10	5.83	
Highest CH	4.49	4.90	5.45	5.94	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.16	5.86	PASS		
Middle CH	6.20	6.06			
Highest CH	6.29	6.38			

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.74	4.78	4.72	5.65	PASS
Middle CH	4.29	4.49	5.1	5.59	
Highest CH	4.23	4.46	5.39	5.42	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.88	6.17	PASS		
Middle CH	6.38	6.14			
Highest CH	6.23	6.00			

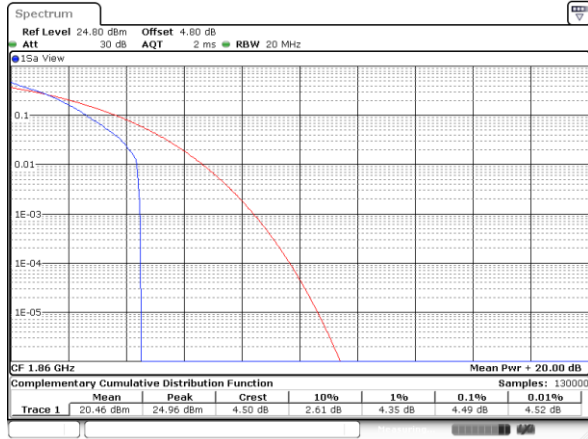
Mode	LTE Band 26 / 15MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.81	4.41	5.59	5.88	PASS
Middle CH	4.41	4.87	5.25	5.88	
Highest CH	4.55	4.93	5.16	5.88	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	6.52	6.35	PASS		
Middle CH	6.12	6.41			
Highest CH	6.49	6.35			

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.20	4.90	5.51	5.88	PASS
Middle CH	5.65	5.59	5.71	6.06	
Highest CH	5.28	4.93	6.64	6.35	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.71	6.29	PASS		
Middle CH	6.41	6.64			
Highest CH	5.97	5.94			

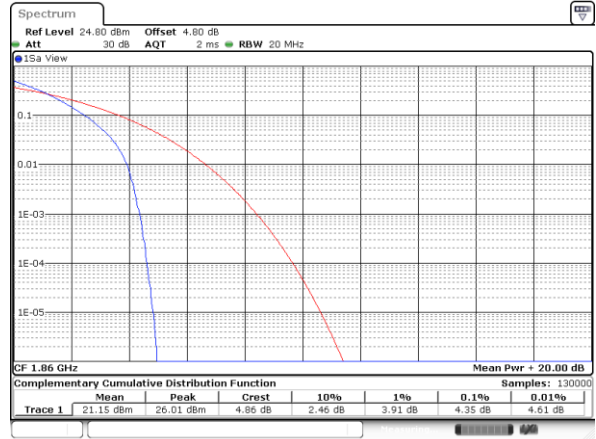


LTE Band 2 / 20MHz / QPSK

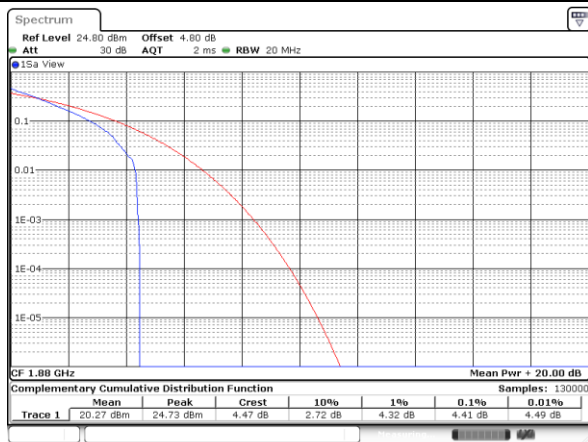
Lowest Channel / 1RB



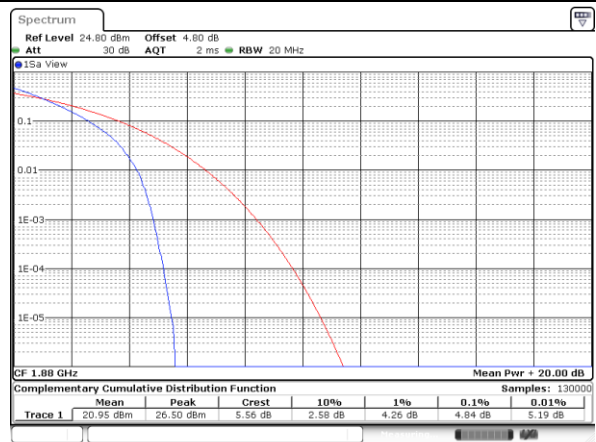
Lowest Channel / Full RB



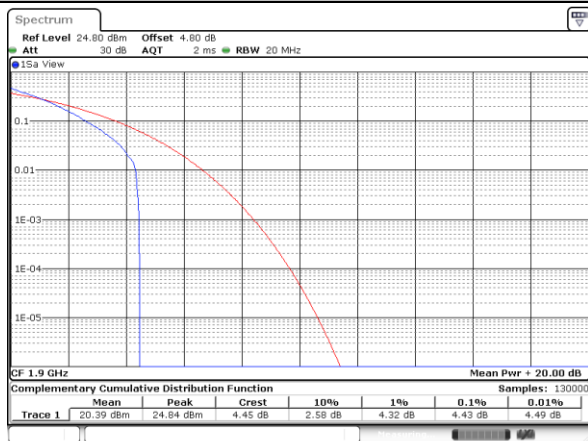
Middle Channel / 1RB



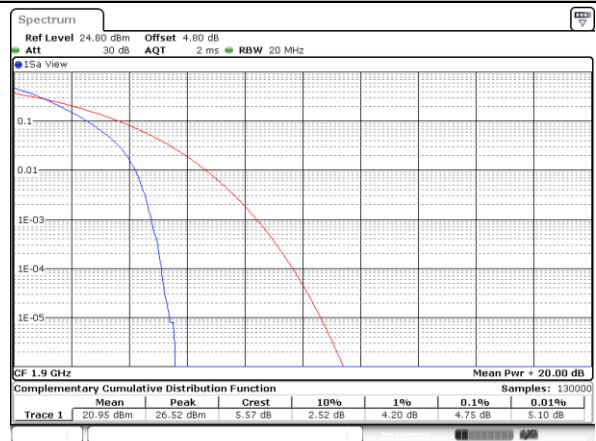
Middle Channel / Full RB



Highest Channel / 1RB



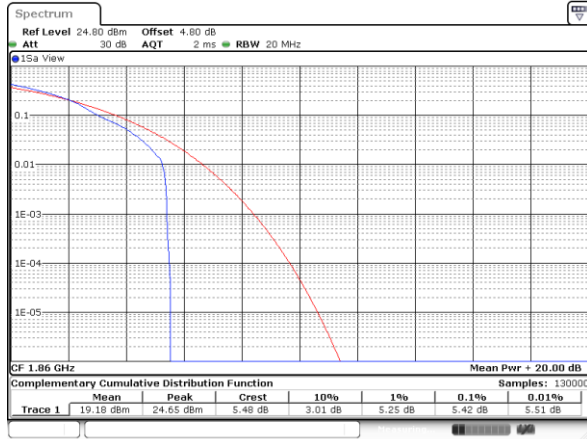
Highest Channel / Full RB



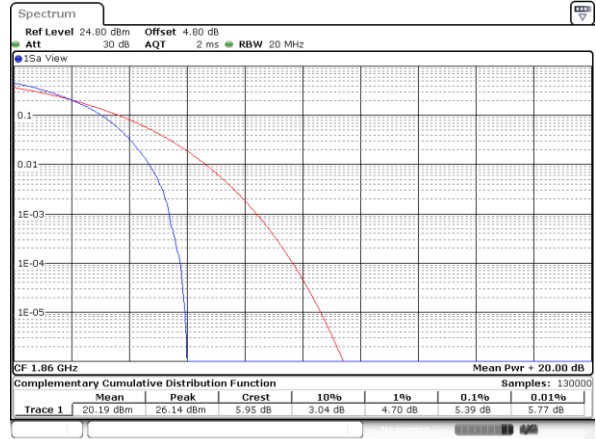


LTE Band 2 / 20MHz / 16QAM

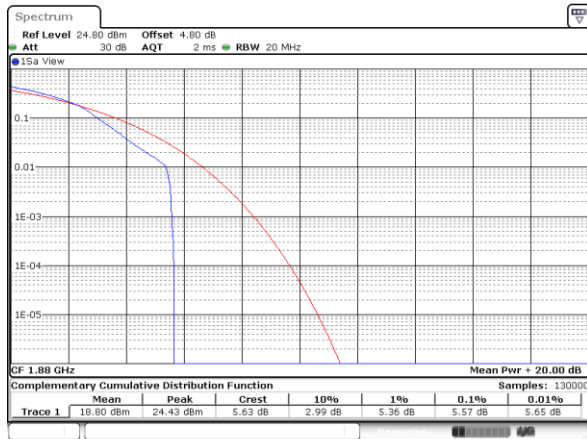
Lowest Channel / 1RB



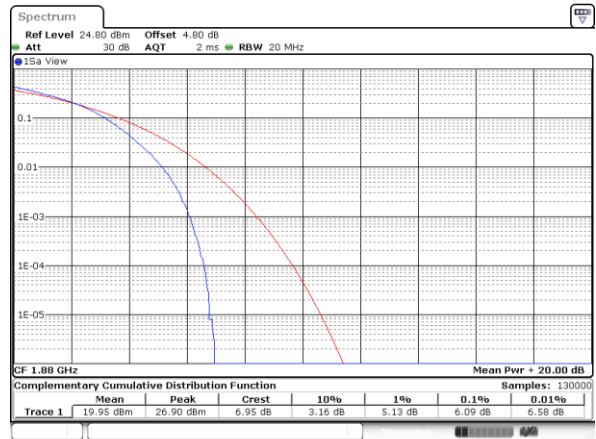
Lowest Channel / Full RB



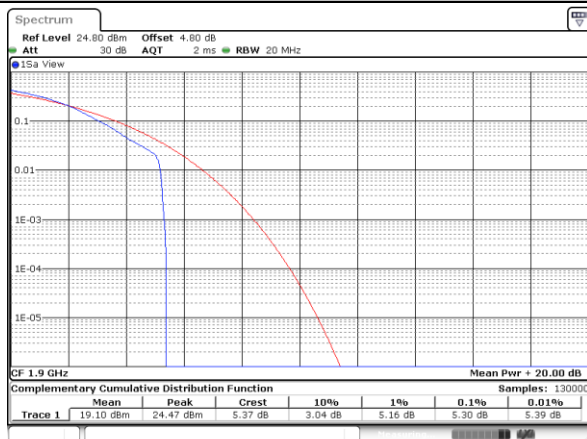
Middle Channel / 1RB



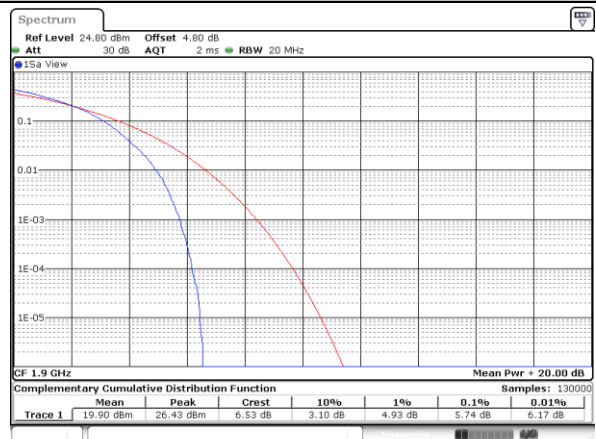
Middle Channel / Full RB



Highest Channel / 1RB



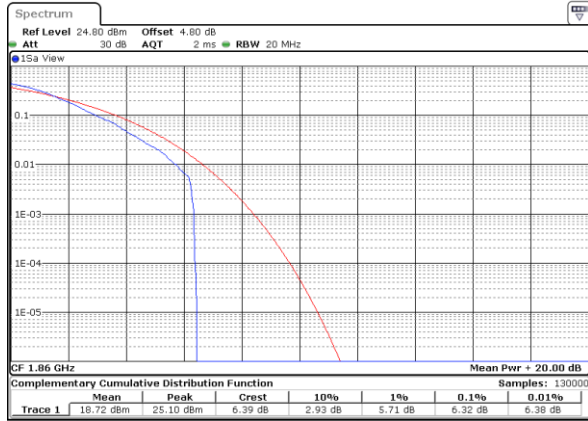
Highest Channel / Full RB



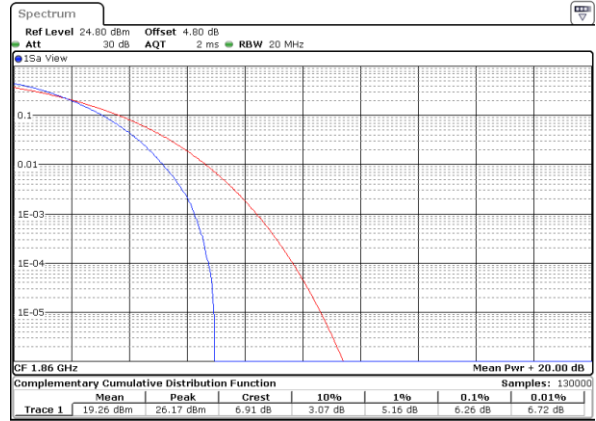


LTE Band 2 / 20MHz / 64QAM

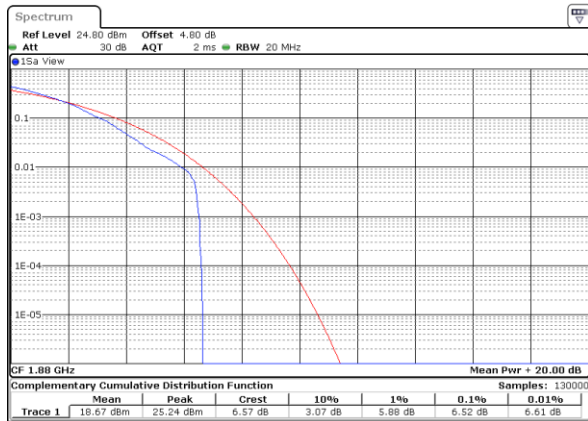
Lowest Channel / 1RB



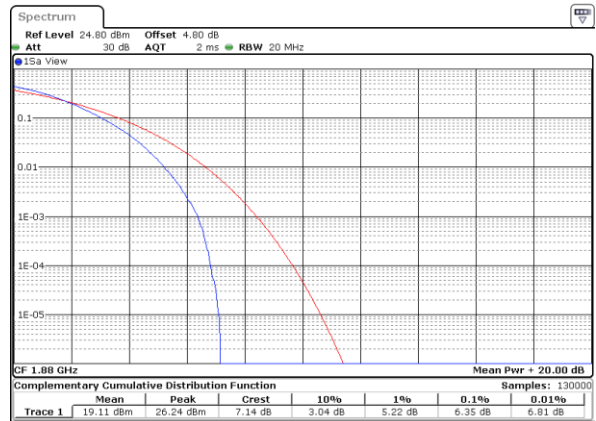
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



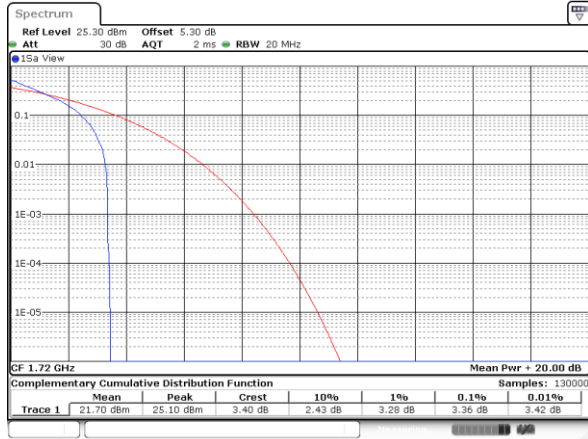
Highest Channel / Full RB



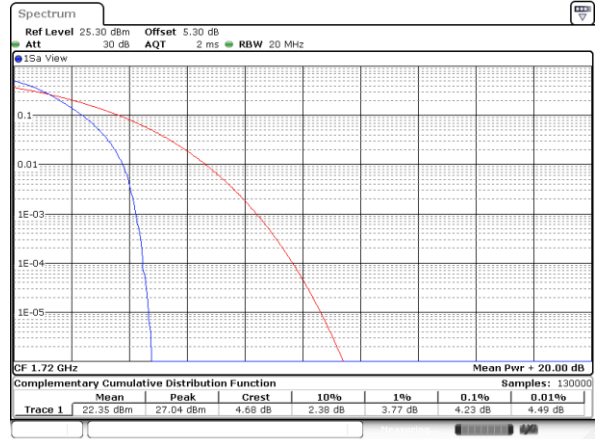


LTE Band 4 / 20MHz / QPSK

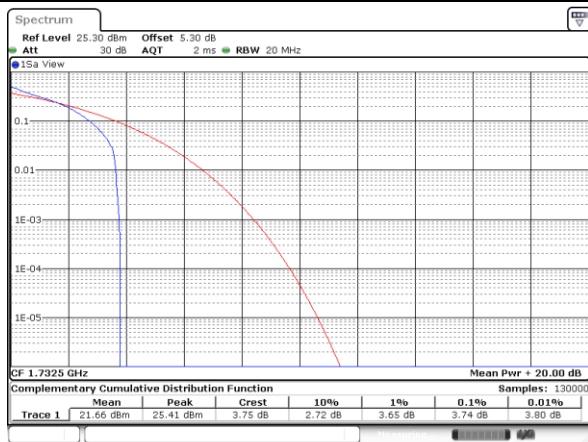
Lowest Channel / 1RB



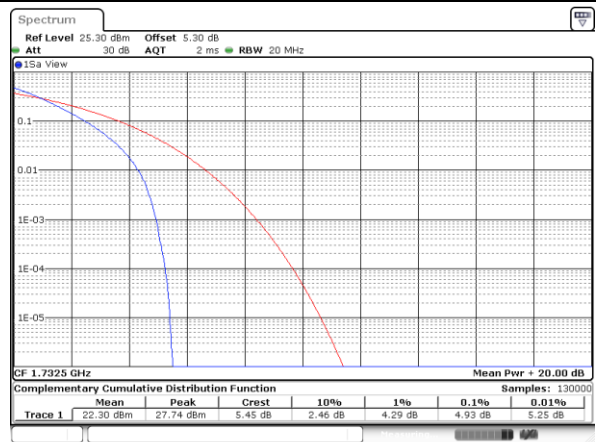
Lowest Channel / Full RB



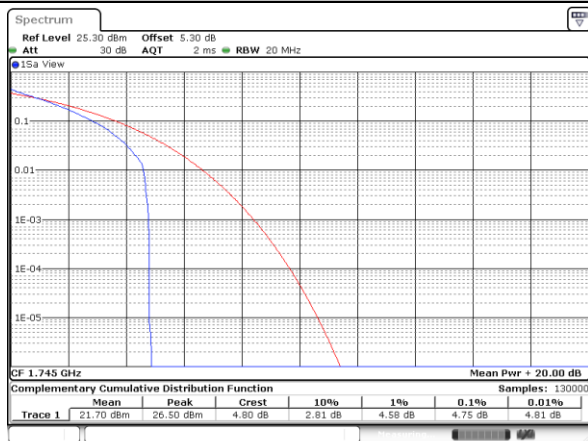
Middle Channel / 1RB



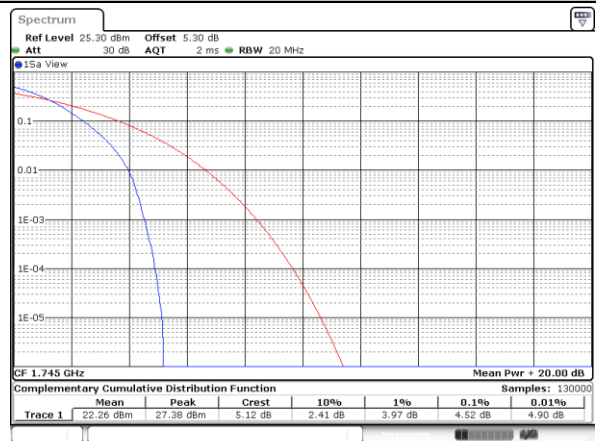
Middle Channel / Full RB



Highest Channel / 1RB



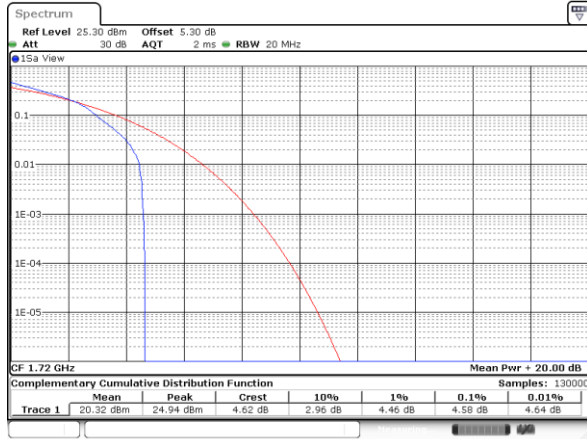
Highest Channel / Full RB



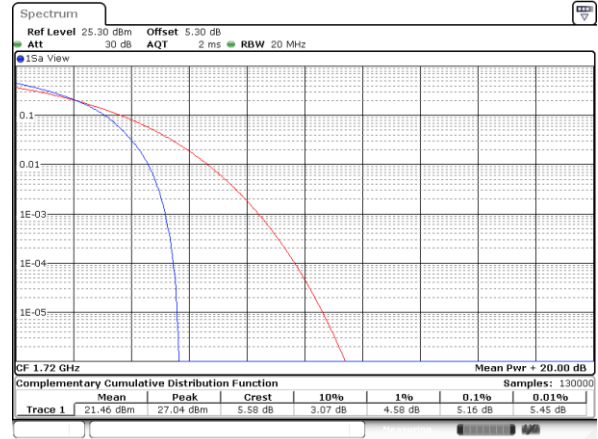


LTE Band 4 / 20MHz / 16QAM

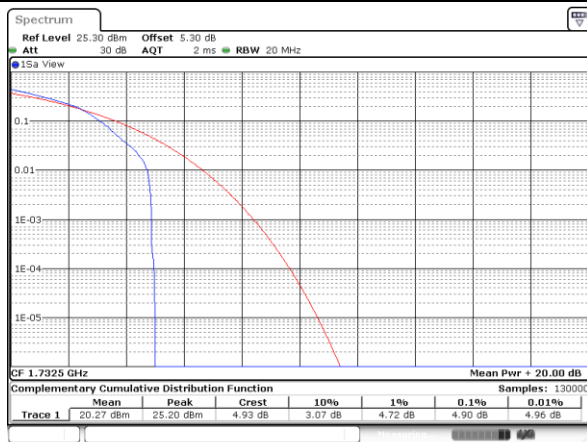
Lowest Channel / 1RB



Lowest Channel / Full RB



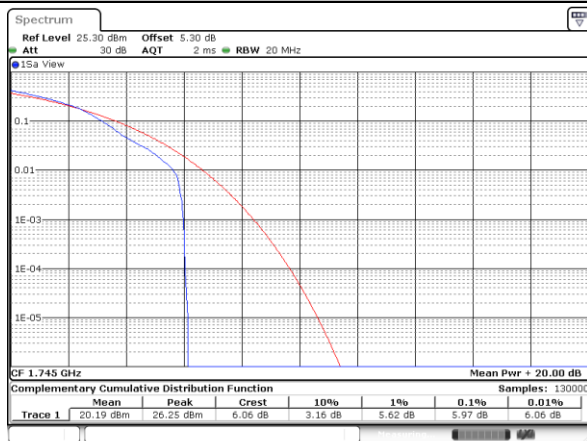
Middle Channel / 1RB



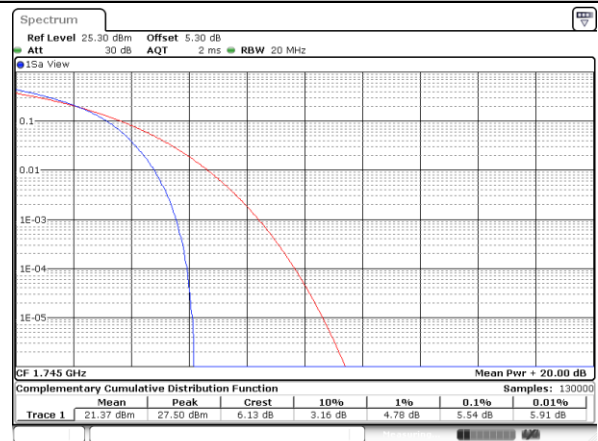
Middle Channel / Full RB



Highest Channel / 1RB



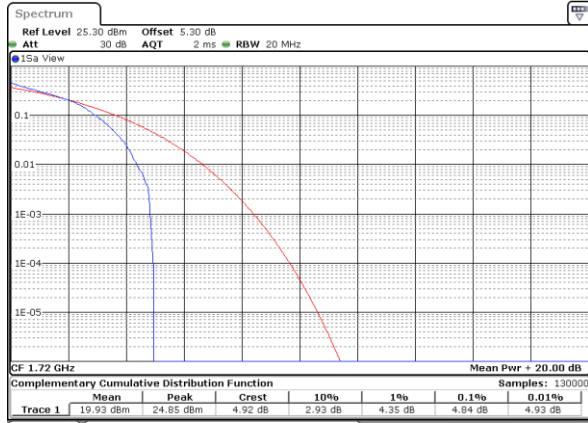
Highest Channel / Full RB



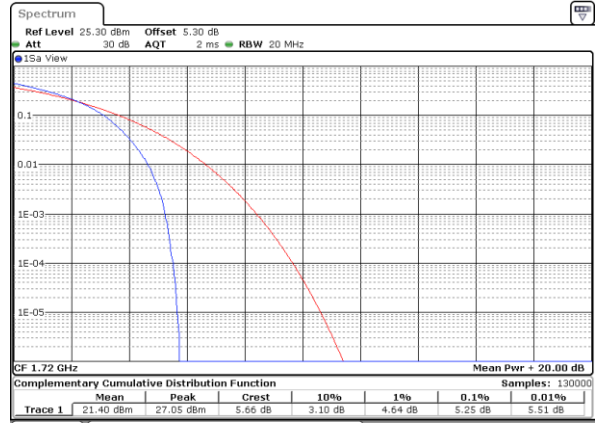


LTE Band 4 / 20MHz / 64QAM

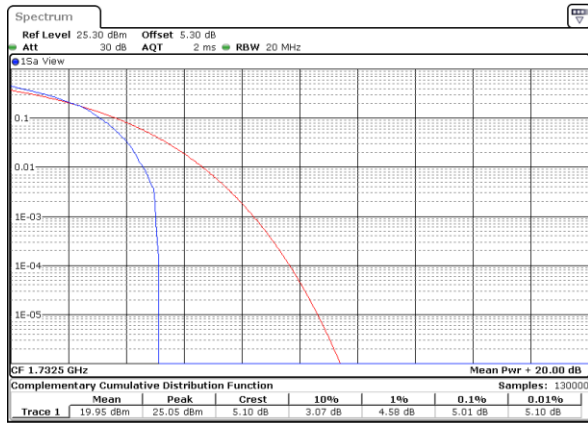
Lowest Channel / 1RB



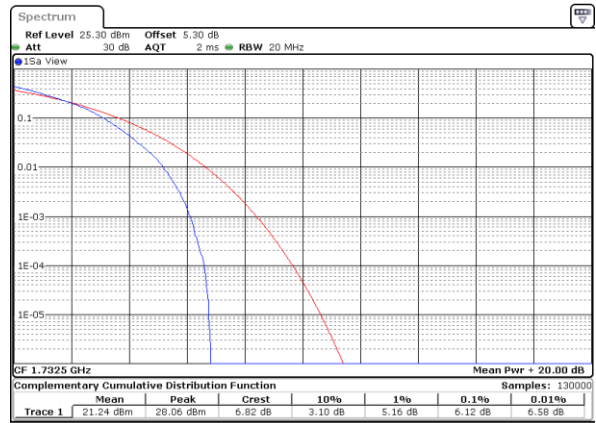
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB

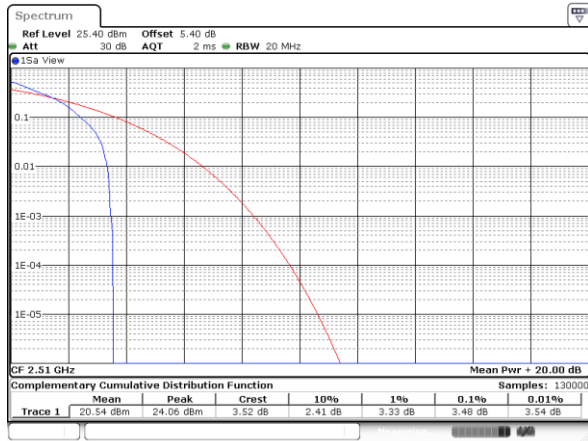
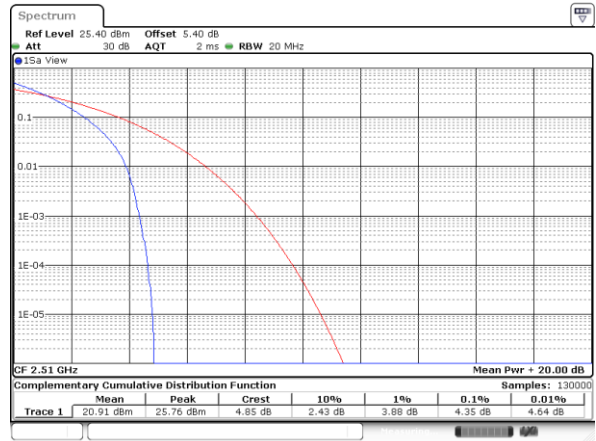
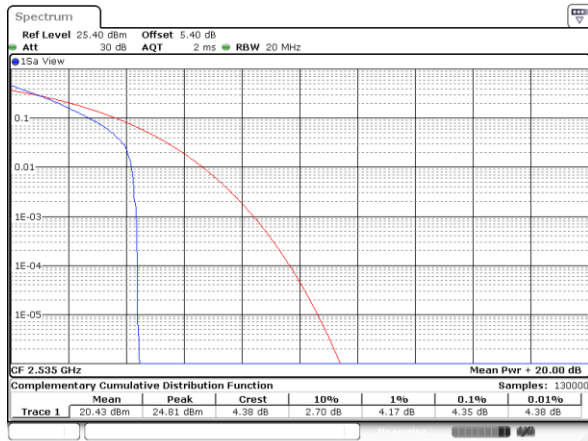
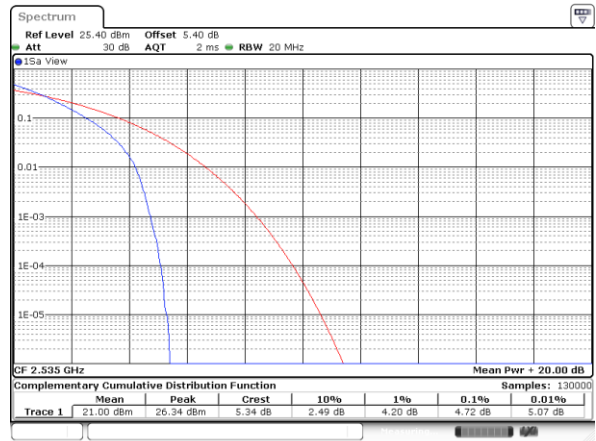
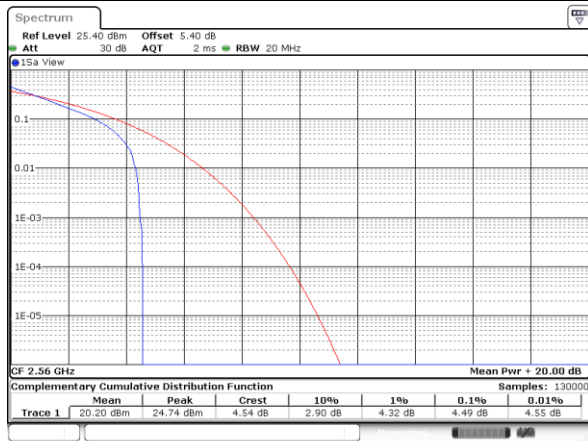
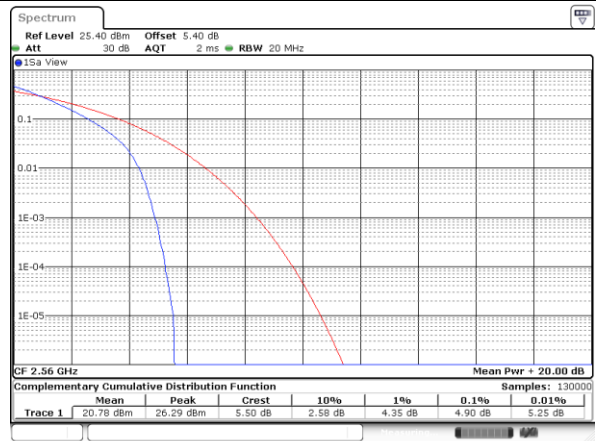


Highest Channel / 1RB



Highest Channel / Full RB

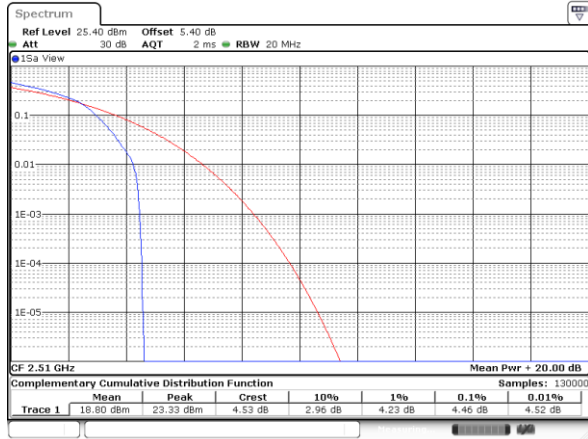


LTE Band 7 / 20MHz / QPSK
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB


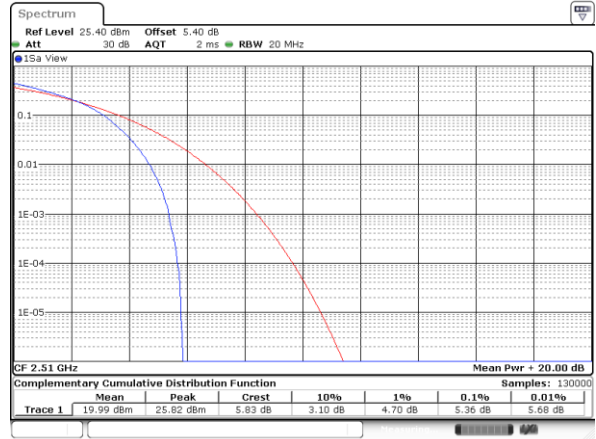


LTE Band 7 / 20MHz / 16QAM

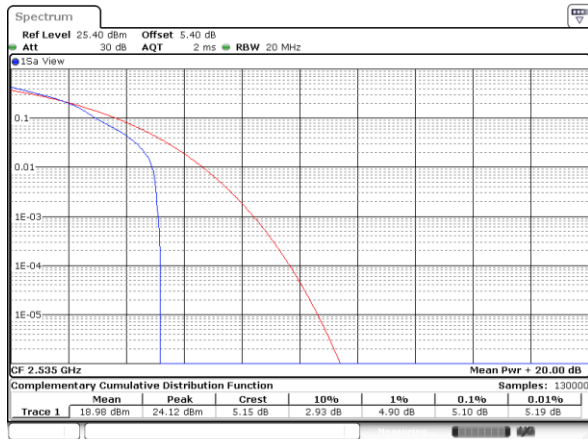
Lowest Channel / 1RB



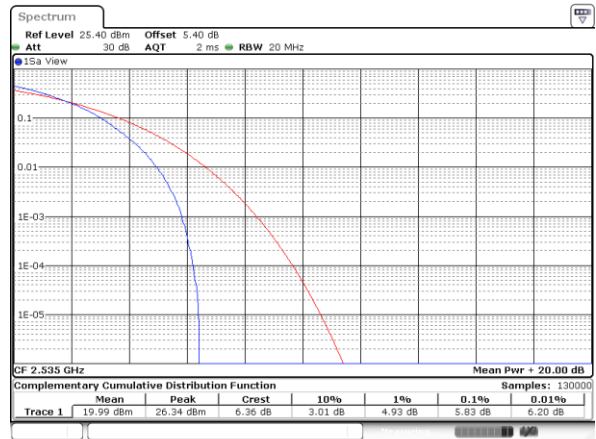
Lowest Channel / Full RB



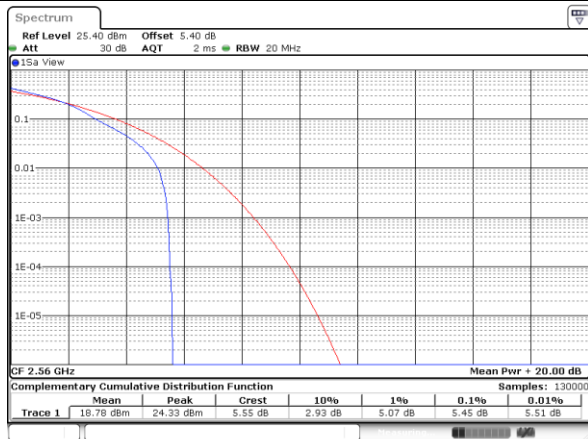
Middle Channel / 1RB



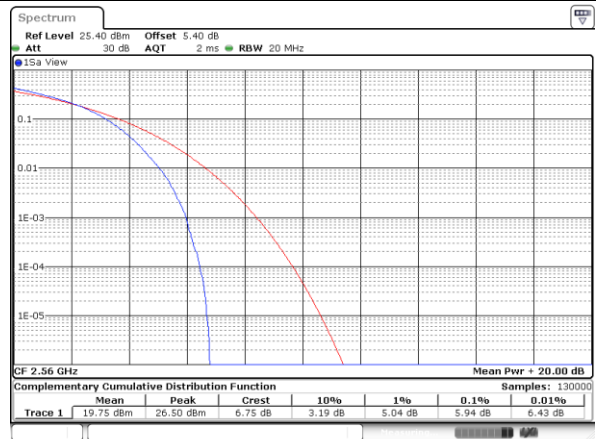
Middle Channel / Full RB



Highest Channel / 1RB



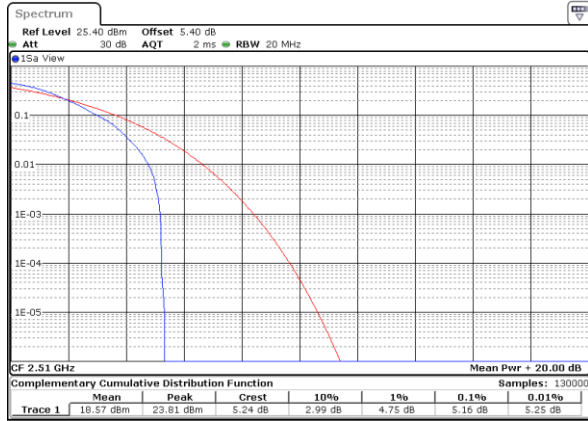
Highest Channel / Full RB



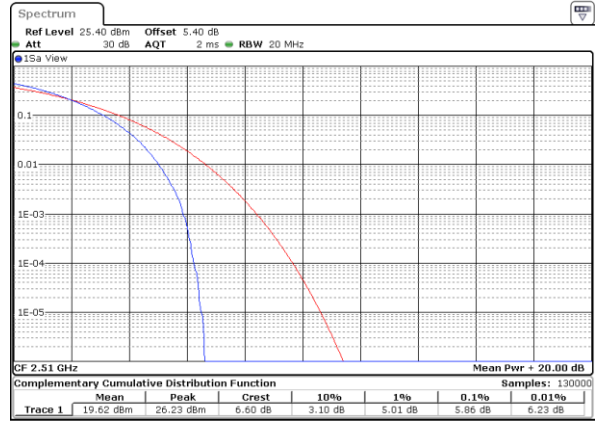


LTE Band 7 / 20MHz / 64QAM

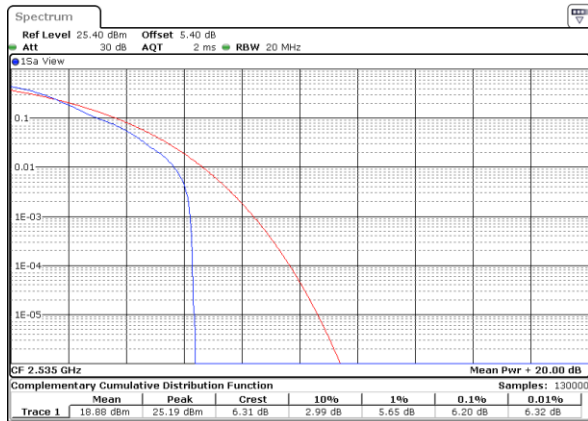
Lowest Channel / 1RB



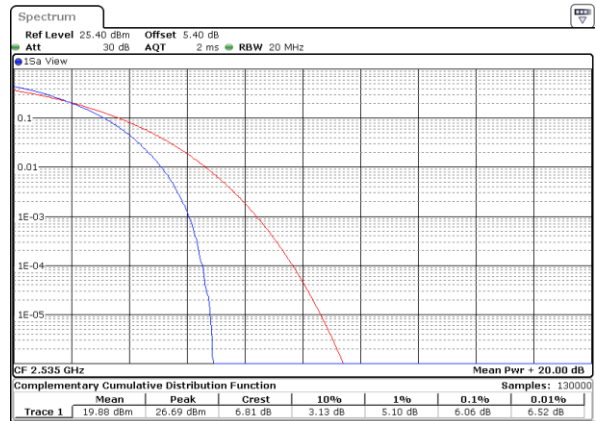
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



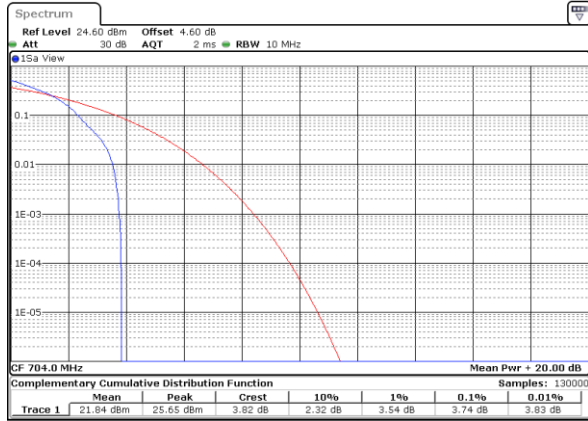
Highest Channel / Full RB



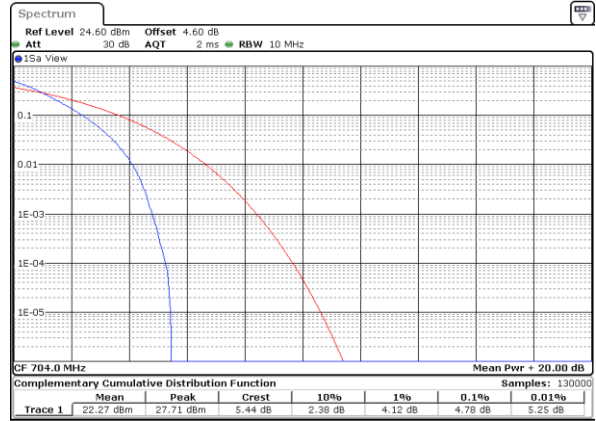


LTE Band 12 / 10MHz / QPSK

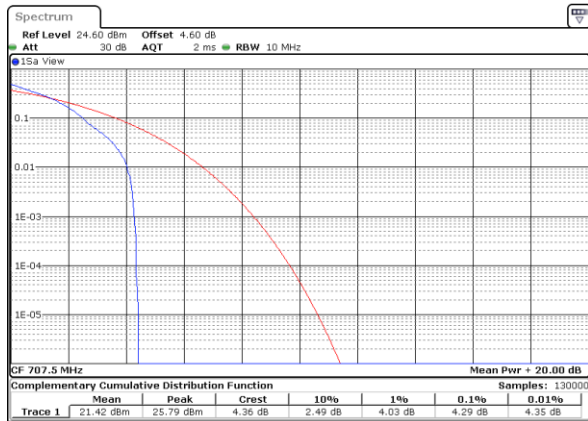
Lowest Channel / 1RB



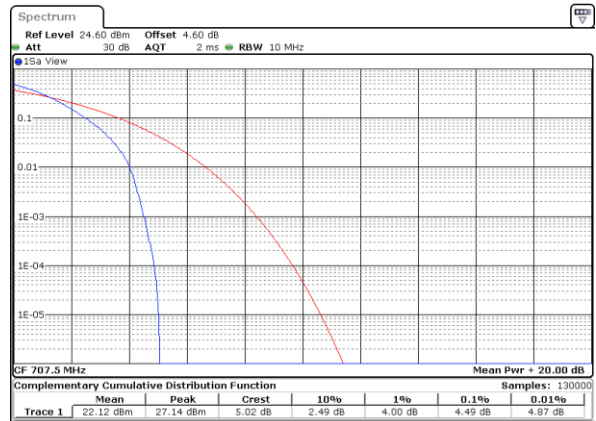
Lowest Channel / Full RB



Middle Channel / 1RB



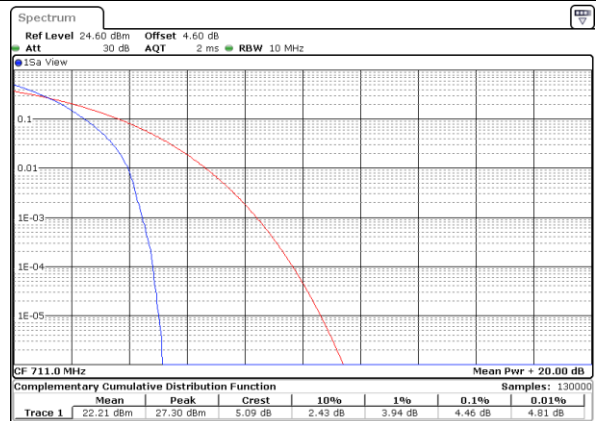
Middle Channel / Full RB



Highest Channel / 1RB



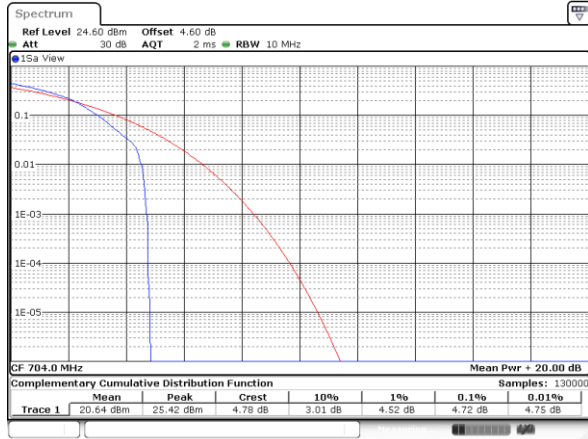
Highest Channel / Full RB



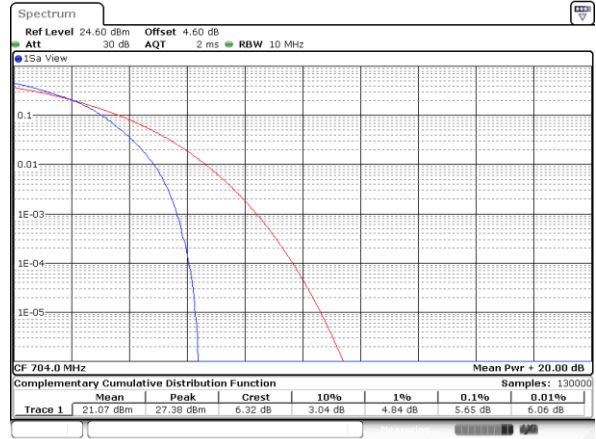


LTE Band 12 / 10MHz / 16QAM

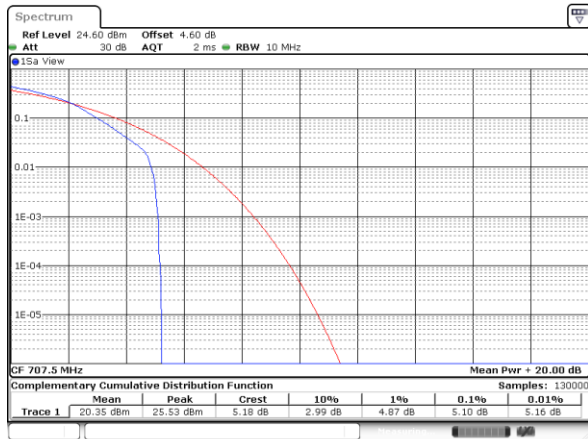
Lowest Channel / 1RB



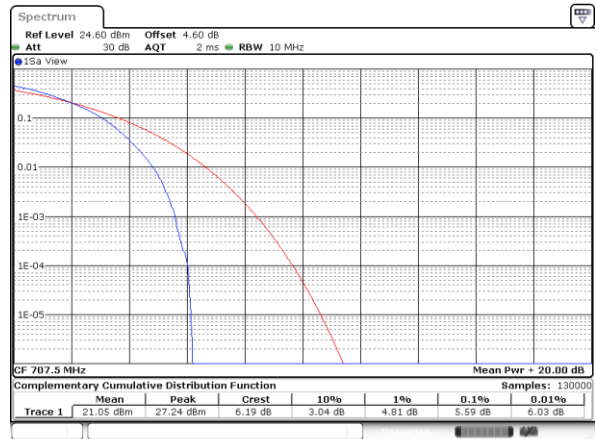
Lowest Channel / Full RB



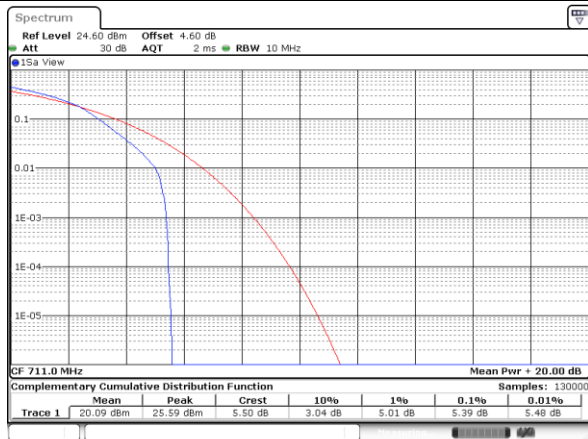
Middle Channel / 1RB



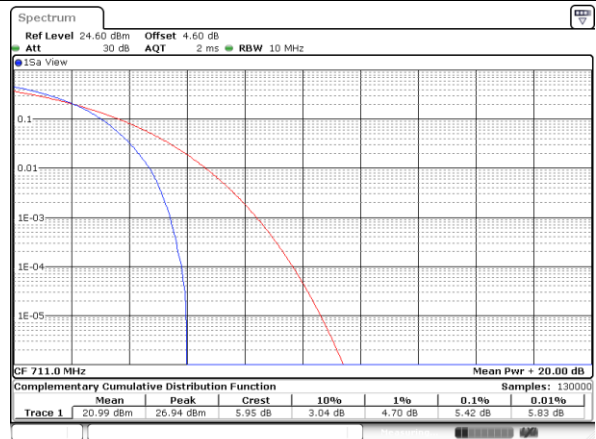
Middle Channel / Full RB



Highest Channel / 1RB



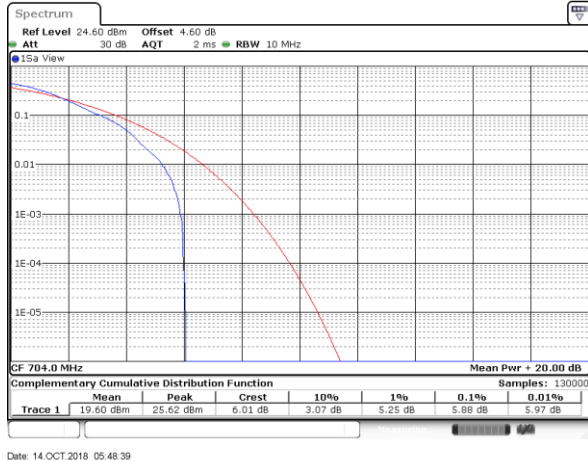
Highest Channel / Full RB



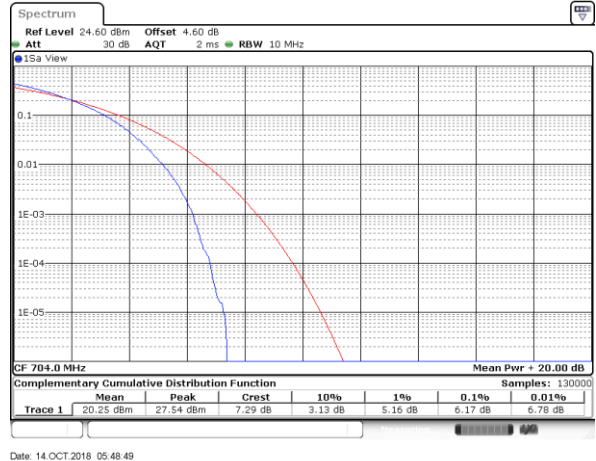


LTE Band 12 / 10MHz / 64QAM

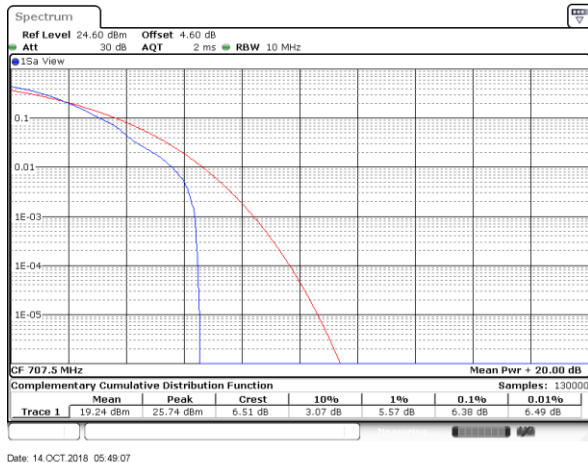
Lowest Channel / 1RB



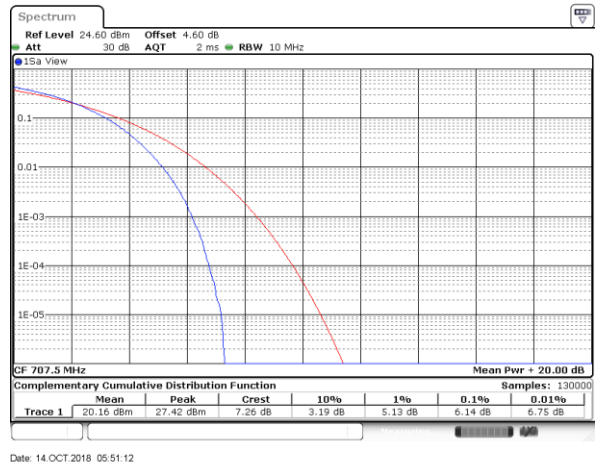
Lowest Channel / Full RB



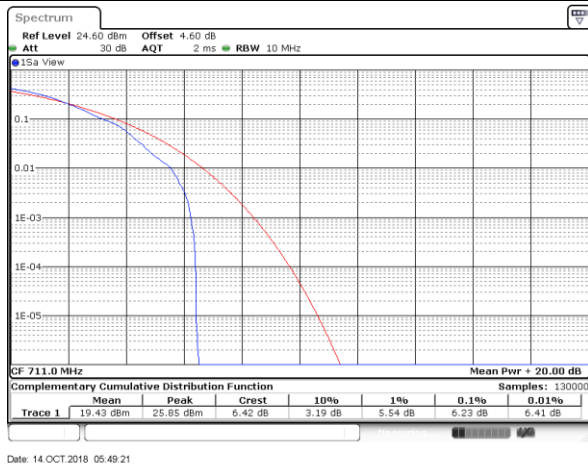
Middle Channel / 1RB



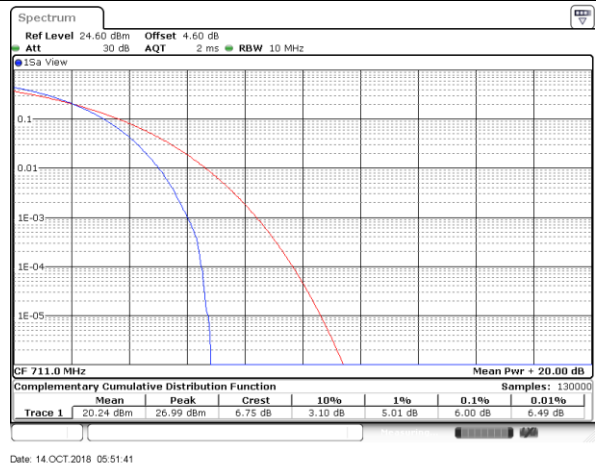
Middle Channel / Full RB



Highest Channel / 1RB



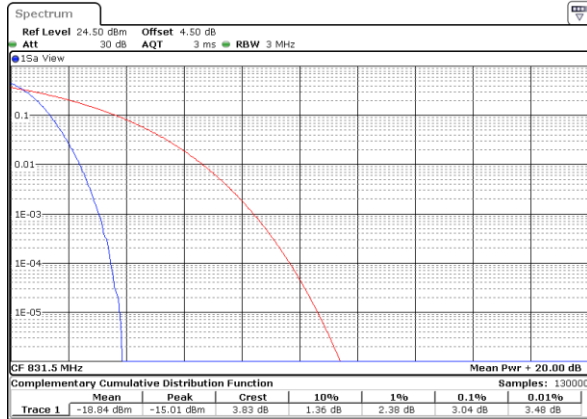
Highest Channel / Full RB



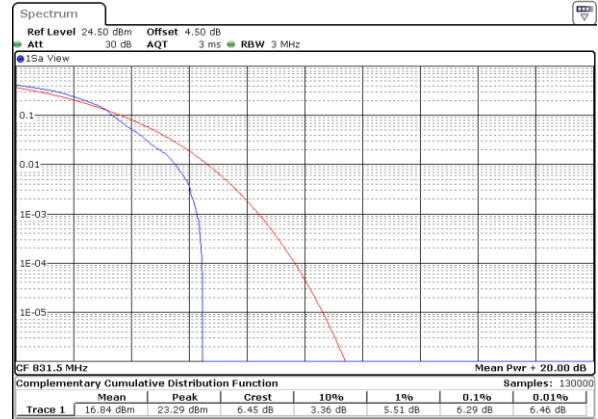


LTE Band 26 / 15MHz / QPSK

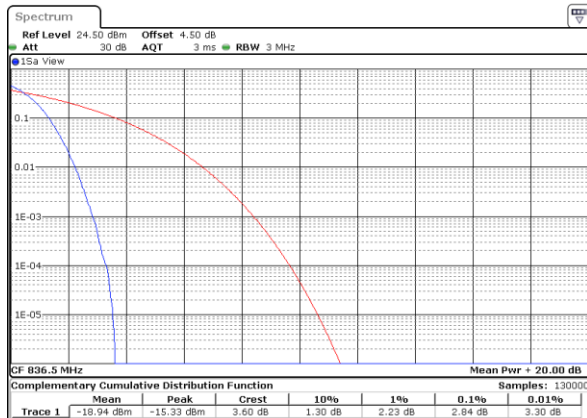
Lowest Channel / 1RB



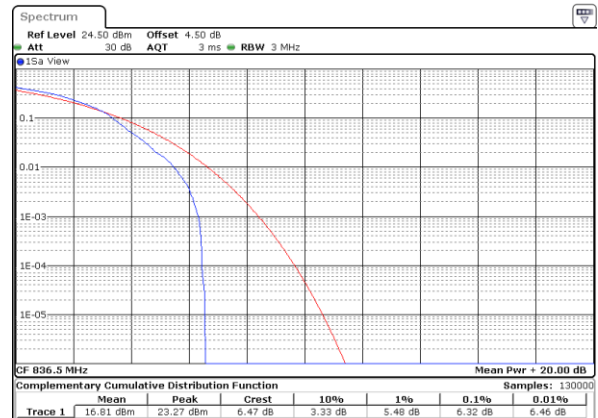
Lowest Channel / Full RB



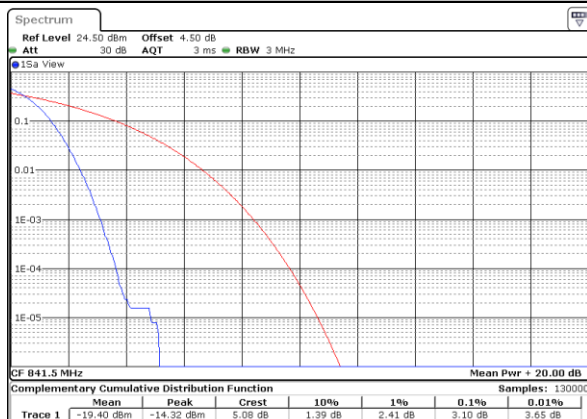
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



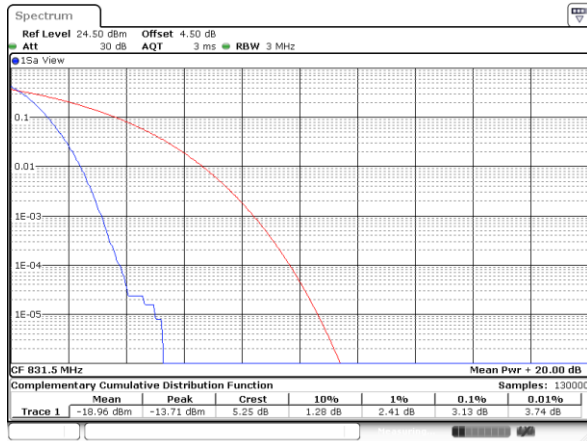
Highest Channel / Full RB



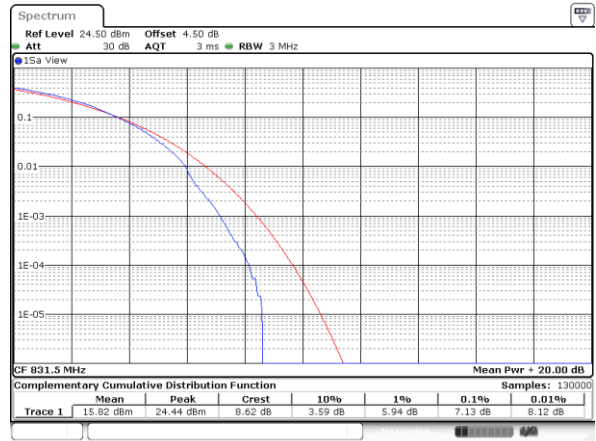


LTE Band 26 / 15MHz / 16QAM

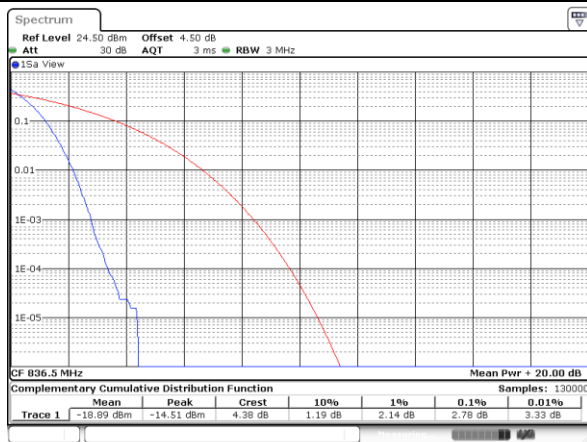
Lowest Channel / 1RB



Lowest Channel / Full RB



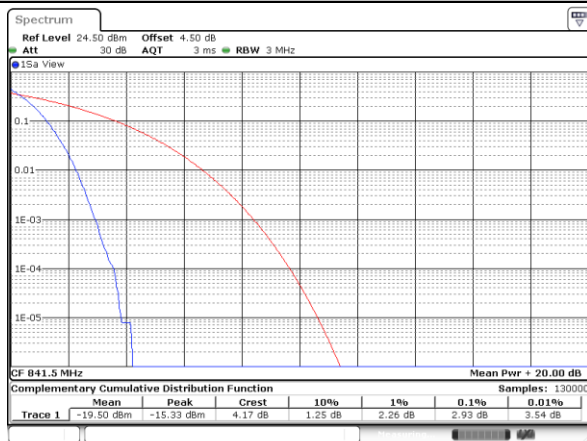
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

