FCC RF Test Report

APPLICANT	:	**ZTE CORPORATION**
EQUIPMENT	:	**WCDMA/LTE CPE**
BRAND NAME	:	**ZTE**
MODEL NAME	:	**MF288**
FCC ID	:	**SRQ-MF288**
STANDARD	:	**47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(F), 27(H)**
CLASSIFICATION	:	**PCS Licensed Transmitter (PCB)**

The product was received on Aug. 09, 2017 and completely tested on Sep. 14, 2017. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-D-2010 and the testing has shown the tested sample to be in 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.

James Huang

Approved by: James Huang / Manager

TESTING
NVLAP LAB CODE 600155-0

Sporton International (Kunshan) Inc.
No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335 China

TABLE OF CONTENTS

REVISION HISTORY **3**

SUMMARY OF TEST RESULT **4**

1 GENERAL DESCRIPTION **6**

1.1 Applicant 6
1.2 Manufacturer 6
1.3 Product Feature of Equipment Under Test 6
1.4 Product Specification of Equipment Under Test 7
1.5 Modification of EUT 8
1.6 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator 9
1.7 Testing Location 19
1.8 Applicable Standards 19

2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST **20**

2.1 Test Mode 20
2.2 Connection Diagram of Test System 24
2.3 Support Unit used in test configuration and system 26
2.4 Measurement Results Explanation Example 26
2.5 Frequency List of Low/Middle/High Channels 27

3 CONDUCTED TEST ITEMS **32**

3.1 Measuring Instruments 32
3.2 Test Setup 32
3.3 Test Result of Conducted Test 32
3.4 Conducted Output Power and ERP/EIRP 33
3.5 Peak-to-Average Ratio 34
3.6 Occupied Bandwidth 35
3.7 Conducted Band Edge 36
3.8 Conducted Spurious Emission 38
3.9 Frequency Stability 39

4 RADIATED TEST ITEMS **40**

4.1 Measuring Instruments 40
4.2 Test Setup 40
4.3 Test Result of Radiated Test 40
4.4 Radiated Spurious Emission 41

5 LIST OF MEASURING EQUIPMENT **43**

6 UNCERTAINTY OF EVALUATION **44**

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
FG780901B	Rev. 01	Initial issue of report	Sep. 30, 2017

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)(2)	Effective Radiated Power (Band 5) (Band 26)	ERP < 7 Watt	PASS	-
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13)	ERP < 3 Watt	PASS	-
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2)(Band 25)(Band 7)	EIRP < 2Watt	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)	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(c)(2)(4) §27.53(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 25) (Band 26) (Band 66)	< 43+10log10(P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7)	§27.53(m)(4)		
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(g) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 25) (Band 26) (Band 66)	< 43+10log10(P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7)	< 55+10log$_{10}$(P[Watts])		
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22H	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		

Report Section	FCC Rule	Description	Limit	Result	Remark
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(f) §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 25) (Band 26) (Band 66)	< 43+10log$_{10}$(P[Watts])	PASS	Under limit 5.78 dB at 1564.000 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7)	< 55+10log$_{10}$(P[Watts])		

1 General Description

1.1 Applicant

ZTE CORPORATION
ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District,Shenzhen, Guangdong, 518057, P.R.China

1.2 Manufacturer

ZTE CORPORATION
ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District,Shenzhen, Guangdong, 518057, P.R.China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	WCDMA/LTE CPE
Brand Name	ZTE
Model Name	MF288
FCC ID	SRQ-MF288
EUT supports Radios application	WCDMA/HSPA/HSPA+(16QAM uplink is not supported)/LTE WLAN2.4GHz 802.11b/g/n HT20/HT40 WLAN5GHz 802.11a/n HT20/HT40 WLAN5GHz 802.11ac VHT20/VHT40/VHT80
IMEI Code	Conducted: 866339030000611 for LTE B2/B4/B5/B7/B13/B25/B26 866339030000579 for LTE B12 866339030001437 for LTE B66 Radiation: 866339030000975 for LTE B7 866339030000009 for LTE B12/B13/B25/B26 866339030001437 for LTE B66
HW Version	MF288HW1.0
SW Version	MF288UIV1.0.3
EUT Stage	Identical Prototype

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 13 : 779.5 MHz ~ 784.5 MHz LTE Band 25 : 1850.7MHz ~ 1914.3 MHz LTE Band 26 : 824.7MHz ~ 848.3 MHz LTE Band 66 : 1710.7 MHz ~ 1779.3 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 13 : 748.5 MHz ~ 753.5 MHz LTE Band 25 : 1930.7MHz ~ 1994.3 MHz LTE Band 26 : 869.7MHz ~ 893.3MHz LTE Band 66 : 2110.7 MHz~ 2199.3 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 13 : 5MHz / 10MHz LTE Band 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 2 : 21.27 dBm LTE Band 4 : 21.17 dBm LTE Band 5 : 21.78 dBm LTE Band 7 : 21.51 dBm LTE Band 12 : 21.46 dBm LTE Band 13 : 21.69 dBm LTE Band 25 : 21.28 dBm LTE Band 26 : 21.97 dBm LTE Band 66 : 21.18 dBm

Antenna Gain	WWAN Internal Antenna : LTE Band 2 : 2.06 dBi LTE Band 4 : 2.33 dBi LTE Band 5 : 1.02 dBi LTE Band 7 : 2.92 dBi LTE Band 12 : 1.02 dBi LTE Band 13 : 0.83 dBi LTE Band 25 : 2.06 dBi LTE Band 26 : 1.02 dBi LTE Band 66 : 2.33 dBi WWAN External Antenna : LTE Band 2 : 2.77 dBi LTE Band 4 : 2.67 dBi LTE Band 5 : 1.82 dBi LTE Band 7 : 2.58 dBi LTE Band 12 : 1.16 dBi LTE Band 13 : 0.67 dBi LTE Band 25 : 2.77 dBi LTE Band 26 : 1.82 dBi LTE Band 66 : 2.67 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

<WWAN Internal Antenna>

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	-	0.2046	1M10W7D	-	0.1750
3	1851.5 ~ 1908.5	2M73G7D	-	0.2143	2M73W7D	-	0.1803
5	1852.5 ~ 1907.5	4M50G7D	-	0.2056	4M52W7D	-	0.1758
10	1855.0 ~ 1905.0	9M07G7D	0.0017	0.2070	9M09W7D	-	0.1786
15	1857.5 ~ 1902.5	13M5G7D	-	0.2138	13M5W7D	-	0.1799
20	1860.0 ~ 1900.0	18M5G7D	-	0.2153	18M4W7D	-	0.1824

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	-	0.1690
3	1851.5 ~ 1908.5	2M74W7D	-	0.1706
5	1852.5 ~ 1907.5	4M50W7D	-	0.1702
10	1855.0 ~ 1905.0	9M09W7D	-	0.1722
15	1857.5 ~ 1902.5	13M4W7D	-	0.1738
20	1860.0 ~ 1900.0	18M4W7D	-	0.1762

LTE Band 25		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 ~ 1914.3	1M09G7D	-	0.2065	1M10W7D	-	0.1754
3	1851.5 ~ 1913.5	2M73G7D	-	0.2109	2M73W7D	-	0.1786
5	1852.5 ~ 1912.5	4M50G7D	-	0.2084	4M51W7D	-	0.1778
10	1855.0 ~ 1910.0	9M05G7D	0.0024	0.2104	9M03W7D	-	0.1803
15	1857.5 ~ 1907.5	13M5G7D	-	0.2094	13M5W7D	-	0.1799
20	1860.0 ~ 1905.0	18M4G7D	-	0.2099	18M5W7D	-	0.1795

LTE Band 25		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1850.7 ~ 1914.3	1M09W7D	-	0.1694
3	1851.5 ~ 1913.5	2M73W7D	-	0.1734
5	1852.5 ~ 1912.5	4M55W7D	-	0.1738
10	1855.0 ~ 1910.0	9M09W7D	-	0.1726
15	1857.5 ~ 1907.5	13M5W7D	-	0.1738
20	1860.0 ~ 1905.0	18M3W7D	-	0.1710

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	1M09G7D	-	0.2133	1M09W7D	-	0.1824
3	1711.5 ~ 1753.5	2M73G7D	-	0.2178	2M73W7D	-	0.1866
5	1712.5 ~ 1752.5	4M51G7D	-	0.2178	4M50W7D	-	0.1854
10	1715.0 ~ 1750.0	9M05G7D	0.0022	0.2208	9M07W7D	-	0.1871
15	1717.5 ~ 1747.5	13M4G7D	-	0.2213	13M5W7D	-	0.1892
20	1720.0 ~ 1745.0	18M5G7D	-	0.2239	18M4W7D	-	0.1910

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	1M09W7D	-	0.1742
3	1711.5 ~ 1753.5	2M75W7D	-	0.1791
5	1712.5 ~ 1752.5	4M50W7D	-	0.1774
10	1715.0 ~ 1750.0	9M05W7D	-	0.1811
15	1717.5 ~ 1747.5	13M6W7D	-	0.1828
20	1720.0 ~ 1745.0	18M4W7D	-	0.1841

LTE 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	-	0.1143	1M09W7D	-	0.0940
3	825.5 ~ 847.5	2M74G7D	-	0.1159	2M75W7D	-	0.0966
5	826.5 ~ 846.5	4M54G7D	-	0.1153	4M49W7D	-	0.0966
10	829.0 ~ 844.0	9M03G7D	0.0035	0.1161	9M07W7D	-	0.0957

LTE 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	-	0.0916
3	825.5 ~ 847.5	2M73W7D	-	0.0953
5	826.5 ~ 846.5	4M51W7D	-	0.0940
10	829.0 ~ 844.0	9M03W7D	-	0.0935

LTE Band 7		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2502.5 ~ 2567.5	4M50G7D	-	0.2588	4M51W7D	-	0.2244
10	2505.0 ~ 2565.0	9M03G7D	0.0019	0.2624	9M07W7D	-	0.2213
15	2507.5 ~ 2562.5	13M5G7D	-	0.2698	13M4W7D	-	0.2244
20	2510.0 ~ 2560.0	18M3G7D	-	0.2773	18M5W7D	-	0.2275

LTE Band 7		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2502.5 ~ 2567.5	4M50W7D	-	0.2138
10	2505.0 ~ 2565.0	9M03W7D	-	0.2173
15	2507.5 ~ 2562.5	13M4W7D	-	0.2773
20	2510.0 ~ 2560.0	18M4W7D	-	0.2193

LTE Band 12		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	699.7 ~ 715.3	1M09G7D	-	0.1042	1M10W7D	-	0.0871
3	700.5 ~ 714.5	2M75G7D	-	0.1079	2M72W7D	-	0.0912
5	701.5 ~ 713.5	4M49G7D	-	0.1035	4M51W7D	-	0.0879
10	704.0 ~ 711.0	9M11G7D	0.0040	0.1026	9M09W7D	-	0.0867

LTE Band 12		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	699.7 ~ 715.3	1M09W7D	-	0.0843
3	700.5 ~ 714.5	2M74W7D	-	0.0865
5	701.5 ~ 713.5	4M50W7D	-	0.0843
10	704.0 ~ 711.0	9M05W7D	-	0.0859

LTE Band 13		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	779.5 ~ 784.5	4M51G7D	-	0.1059	4M50W7D	-	0.0899
10	782.0	8M99G7D	0.0090	0.1089	9M01W7D	-	0.0906

LTE Band 13		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	779.5 ~ 784.5	4M50W7D	-	0.0885
10	782.0	9M01W7D	-	0.0873

LTE Band 26		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	1M10G7D	-	0.1153	1M10W7D	-	0.0973
3	825.5 ~ 847.5	2M73G7D	-	0.1194	2M73W7D	-	0.1028
5	826.5 ~ 846.5	4M51G7D	-	0.1186	4M51W7D	-	0.1016
10	829.0 ~ 844.0	9M05G7D	0.0117	0.1213	9M01W7D	-	0.1014
15	831.5 ~ 841.5	13M5G7D	-	0.1213	13M5W7D	-	0.1023
CH26765	821.5	13M5G7D	-	0.1216	13M5W7D	-	0.1030

LTE Band 26		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	824.7 ~ 848.3	1M09W7D	-	0.0951
3	825.5 ~ 847.5	2M73W7D	-	0.0991
5	826.5 ~ 846.5	4M52W7D	-	0.0991
10	829.0 ~ 844.0	9M05W7D	-	0.0998
15	831.5 ~ 841.5	13M5W7D	-	0.0986
CH26765	821.5	13M3W7D	-	0.0968

LTE Band 66		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 ~ 1779.3	1M09G7D	-	0.1995	1M09W7D	-	0.1675
3	1711.5 ~ 1778.5	2M73G7D	-	0.2032	2M73W7D	-	0.1671
5	1712.5 ~ 1777.5	4M49G7D	-	0.1986	4M50W7D	-	0.1644
10	1715.0 ~ 1775.0	9M07G7D	0.0026	0.2028	9M01W7D	-	0.1667
15	1717.5 ~ 1772.5	13M5G7D	-	0.2065	13M4W7D	-	0.1702
20	1720.0 ~ 1770.0	18M5G7D	-	0.2244	18M4W7D	-	0.1710

LTE Band 66		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1710.7 ~ 1779.3	1M09W7D	-	0.1271
3	1711.5 ~ 1778.5	2M73W7D	-	0.1611
5	1712.5 ~ 1777.5	4M52W7D	-	0.1611
10	1715.0 ~ 1775.0	9M05W7D	-	0.1603
15	1717.5 ~ 1772.5	13M4W7D	-	0.1660
20	1720.0 ~ 1770.0	18M3W7D	-	0.1679

<WWAN External Antenna>

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	-	-	0.2410	-	-	0.2061
3	1851.5 ~ 1908.5	-	-	0.2523	-	-	0.2123
5	1852.5 ~ 1907.5	-	-	0.2421	-	-	0.2070
10	1855.0 ~ 1905.0	-	-	0.2438	-	-	0.2104
15	1857.5 ~ 1902.5	-	-	0.2518	-	-	0.2118
20	1860.0 ~ 1900.0	-	-	0.2535	-	-	0.2148

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	-	-	0.1991
3	1851.5 ~ 1908.5	-	-	0.2009
5	1852.5 ~ 1907.5	-	-	0.2004
10	1855.0 ~ 1905.0	-	-	0.2028
15	1857.5 ~ 1902.5	-	-	0.2046
20	1860.0 ~ 1900.0	-	-	0.2075

LTE Band 25		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 ~ 1914.3	-	-	0.2432	-	-	0.2065
3	1851.5 ~ 1913.5	-	-	0.2483	-	-	0.2104
5	1852.5 ~ 1912.5	-	-	0.2455	-	-	0.2094
10	1855.0 ~ 1910.0	-	-	0.2477	-	-	0.2123
15	1857.5 ~ 1907.5	-	-	0.2466	-	-	0.2118
20	1860.0 ~ 1905.0	-	-	0.2472	-	-	0.2113

LTE Band 25		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1850.7 ~ 1914.3	-	-	0.1995
3	1851.5 ~ 1913.5	-	-	0.2042
5	1852.5 ~ 1912.5	-	-	0.2046
10	1855.0 ~ 1910.0	-	-	0.2032
15	1857.5 ~ 1907.5	-	-	0.2046
20	1860.0 ~ 1905.0	-	-	0.2014

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	-	-	0.2307	-	-	0.1972
3	1711.5 ~ 1753.5	-	-	0.2355	-	-	0.2018
5	1712.5 ~ 1752.5	-	-	0.2355	-	-	0.2004
10	1715.0 ~ 1750.0	-	-	0.2388	-	-	0.2023
15	1717.5 ~ 1747.5	-	-	0.2393	-	-	0.2046
20	1720.0 ~ 1745.0	-	-	0.2421	-	-	0.2065

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	-	-	0.1884
3	1711.5 ~ 1753.5	-	-	0.1936
5	1712.5 ~ 1752.5	-	-	0.1919
10	1715.0 ~ 1750.0	-	-	0.1959
15	1717.5 ~ 1747.5	-	-	0.1977
20	1720.0 ~ 1745.0	-	-	0.1991

LTE 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	-	-	0.1374	-	-	0.1130
3	825.5 ~ 847.5	-	-	0.1393	-	-	0.1161
5	826.5 ~ 846.5	-	-	0.1387	-	-	0.1161
10	829.0 ~ 844.0	-	-	0.1396	-	-	0.1151

LTE Band 5		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	824.7 ~ 848.3	-	-	0.1102
3	825.5 ~ 847.5	-	-	0.1146
5	826.5 ~ 846.5	-	-	0.1130
10	829.0 ~ 844.0	-	-	0.1125

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	-	-	0.2393	-	-	0.2075
10	2505.0 ~ 2565.0	-	-	0.2427	-	-	0.2046
15	2507.5 ~ 2562.5	-	-	0.2495	-	-	0.2075
20	2510.0 ~ 2560.0	-	-	0.2564	-	-	0.2104

LTE Band 7		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2502.5 ~ 2567.5	-	-	0.1977
10	2505.0 ~ 2565.0	-	-	0.2009
15	2507.5 ~ 2562.5	-	-	0.2564
20	2510.0 ~ 2560.0	-	-	0.2028

LTE Band 12		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	699.7 ~ 715.3	-	-	0.1076	-	-	0.0899
3	700.5 ~ 714.5	-	-	0.1114	-	-	0.0942
5	701.5 ~ 713.5	-	-	0.1069	-	-	0.0908
10	704.0 ~ 711.0	-	-	0.1059	-	-	0.0895

LTE Band 12		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	699.7 ~ 715.3	-	-	0.0871
3	700.5 ~ 714.5	-	-	0.0904
5	701.5 ~ 713.5	-	-	0.0871
10	704.0 ~ 711.0	-	-	0.0887

LTE Band 13		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	779.5 ~ 784.5	-	-	0.1021	-	-	0.0867
10	782.0	-	-	0.1050	-	-	0.0873

LTE Band 13		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	779.5 ~ 784.5	-	-	0.0853
10	782.0	-	-	0.0841

LTE Band 26		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	-	-	0.1387	-	-	0.1169
3	825.5 ~ 847.5	-	-	0.1435	-	-	0.1236
5	826.5 ~ 846.5	-	-	0.1426	-	-	0.1222
10	829.0 ~ 844.0	-	-	0.1459	-	-	0.1219
15	831.5 ~ 841.5	-	-	0.1459	-	-	0.1230
CH26765	821.5	-	-	0.1462	-	-	0.1239

LTE Band 26		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	824.7 ~ 848.3	-	-	0.1143
3	825.5 ~ 847.5	-	-	0.1191
5	826.5 ~ 846.5	-	-	0.1191
10	829.0 ~ 844.0	-	-	0.1199
15	831.5 ~ 841.5	-	-	0.1186
CH26765	821.5	-	-	0.1164

LTE Band 66		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 ~ 1779.3	-	-	0.2158	-	-	0.1811
3	1711.5 ~ 1778.5	-	-	0.2198	-	-	0.1807
5	1712.5 ~ 1777.5	-	-	0.2148	-	-	0.1778
10	1715.0 ~ 1775.0	-	-	0.2193	-	-	0.1803
15	1717.5 ~ 1772.5	-	-	0.2234	-	-	0.1841
20	1720.0 ~ 1770.0	-	-	0.2427	-	-	0.1849

LTE Band 66		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1710.7 ~ 1779.3	-	-	0.1374
3	1711.5 ~ 1778.5	-	-	0.1742
5	1712.5 ~ 1777.5	-	-	0.1742
10	1715.0 ~ 1775.0	-	-	0.1734
15	1717.5 ~ 1772.5	-	-	0.1795
20	1720.0 ~ 1770.0	-	-	0.1816

1.7 Testing Location

Sporton Lab is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0) and the FCC designation No. is CN5013.

Test Site	Sporton International (Kunshan) Inc.		
Test Site Location	No.3-2 Ping-Xiang Rd, Kunshan Development Zone Kunshan City Jiangsu Province 215335 China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	**Sporton Site No.**		**FCC Test Firm Registration No.**
	TH01-KS	03CH03-KS	630927

Note: The test site complies with ANSI C63.4 2014 requirement.

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(F), 27(H)
- ANSI / TIA / EIA-603-D-2010
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- 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 v02r02 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
	13	-	-	v		-	-	v	v	v	v	v	v	v	v	v
	13	-	-		v	-	-	v	v	v	v	v	v		v	
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
	25	v	v	v	v	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
	66	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	2						v	-	-	-	-		-	-	-	-
	4						v	-	-	-	-		-	-	-	-
	5				v	-	-	-	-	-	-		-	-	-	-
	7	-	-				v	v	v	v	v		v	v	v	v
	13	-	-		v	-	-	v	v	v	v		v		v	
	12				v	-	-	v	v	v	v		v	v	v	v
	25						v	v	v	v	v		v	v	v	v
	26					v	-	v	v	v	v		v	v	v	v
	66						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
	5	v	v	v	v	-	-	v	v	v			v	v	v	v
	7	-	-	v	v	v	v	v	v	v			v	v	v	v
	13	-	-	v		-	-	v	v	v			v	v	v	v
	13	-	-		v	-	-	v	v	v			v		v	
	12	v	v	v	v	-	-	v	v	v			v	v	v	v
	25	v	v	v	v	v	v	v	v	v			v	v	v	v
	26	v	v	v	v	v	-	v	v	v			v	v	v	v
	66	v	v	v	v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	2	v	v	v	v	v	v	-	-	-	-		-	-		-
	4	v	v	v	v	v	v	-	-	-	-		-	-		-
	5	v	v	v	v	-	-	-	-	-	-		-	-		-
	7	-	-	v	v	v	v	v	v	v	v		v	v		v
	13	-	-	v		-	-	v	v	v	v		v	v		v
	13	-	-		v	-	-	v	v	v	v		v		v	
	12	v	v	v	v	-	-	v	v	v	v		v	v		v
	25	v	v	v	v	v	v	v	v	v	v		v	v	v	v
	26	v	v	v	v	v	-	v	v	v	v		v	v		v
	66	v	v	v	v	v	v	v	v	v	v		v	v		v

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Conducted Spurious Emission	2	v	v	v	v	v	v	-	-	-	-			-	-	-
	4	v	v	v	v	v	v	-	-	-	-			-	-	-
	5	v	v	v	v	-	-	-	-	-	-			-	-	-
	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	13	-	-	v		-	-	v	v	v	v			v	v	v
	13	-	-		v	-	-	v	v	v	v				v	
	12	v	v	v	v	-	-	v	v	v	v			v	v	v
	25	v	v	v	v	v	v	v	v	v	v			v	v	v
	26	v	v	v	v	v	-	v	v	v	v			v	v	v
	66	v	v	v	v	v	v	v	v	v	v			v	v	v
Frequency Stability	2				v			v					v		v	
	4				v			v					v		v	
	5				v	-	-	v					v		v	
	7	-	-		v			v					v		v	
	13	-	-		v	-	-	v					v		v	
	12				v	-	-	v					v		v	
	25				v			v					v		v	
	26				v		-	v					v		v	
	66				v			v					v		v	

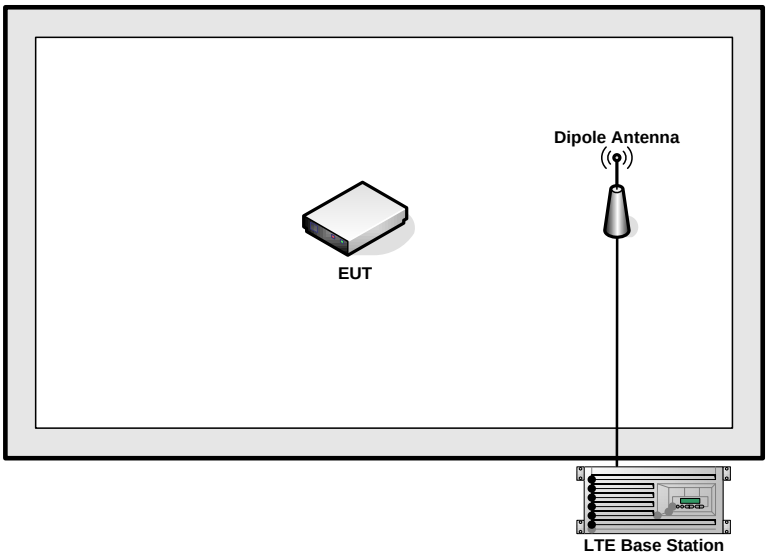
Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
E.R.P./ E.I.R.P.	2	v	v	v	v	v	v	v	v	v	v			v	v	v
	4	v	v	v	v	v	v	v	v	v	v			v	v	v
	5	v	v	v	v	-	-	v	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	13	-	-	v		-	-	v	v	v	v			v	v	v
	13	-	-		v	-	-	v	v	v	v				v	
	12	v	v	v	v	-	-	v	v	v	v			v	v	v
	25	v	v	v	v	v	v	v	v	v	v			v	v	v
	26	v	v	v	v	v	-	v	v	v	v			v	v	v
	66	v	v	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	2	v	v	v	v	v	v	-			-				-	
	4	v	v	v	v	v	v	-			-				-	
	5	v	v	v	v	-	-	-			-				-	
	7	-	-	v	v	v	v	v			v				v	
	13	-	-	v	v	-	-	v			v				v	
	12	v	v	v	v	-	-	v			v				v	
	25	v	v	v	v	v	v	v			v				v	
	26	v	v	v	v	v	-	v			v				v	
	66	v	v	v	v	v	v	v			v				v	

Note

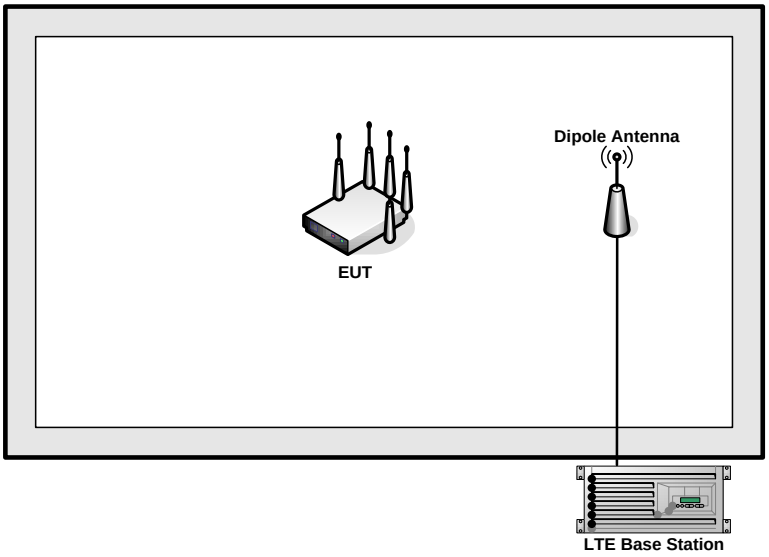
1. The mark "v " means that this configuration is chosen for testing
2. The mark "-" means that this bandwidth is not supported.
3. LTE Band 2 / 4 / 5 test was covered by Band 25 / 66 / 26.
4. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.

2.2 Connection Diagram of Test System

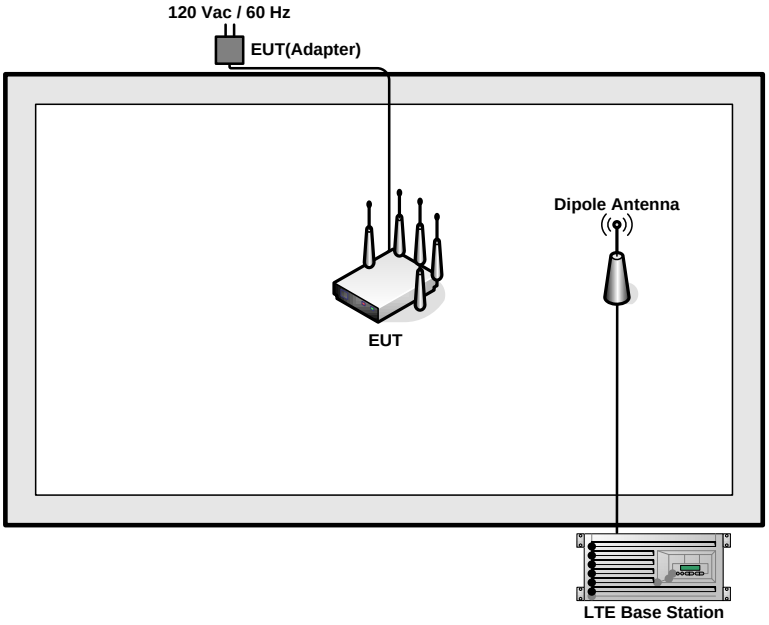
LTE Band 7 (Internal)



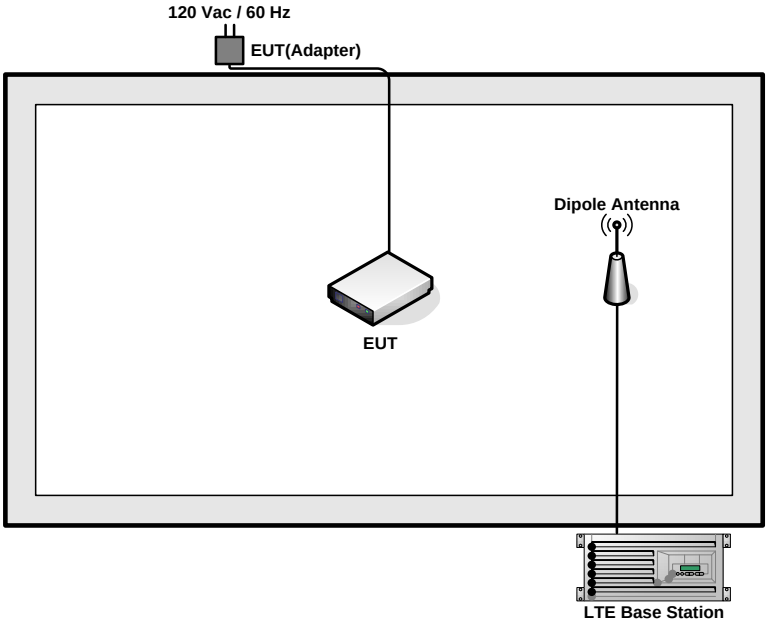
LTE Band 7/25 (External)



LTE Band 12 / 13 / 26 / 66 (External)



LTE Band 12 / 13 / 26 / 25 / 66 (Internal)



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	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 5.4 dB.

Example :

Offset(dB) = RF cable loss(dB).

= 5.4 (dB)

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

LTE Band 25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	26140	26340	26590
	Frequency	1860	1880	1905
15	Channel	26115	26340	26615
	Frequency	1857.5	1880	1907.5
10	Channel	26090	26340	26640
	Frequency	1855	1880	1910
5	Channel	26065	26340	26665
	Frequency	1852.5	1880	1912.5
3	Channel	26055	26340	26675
	Frequency	1851.5	1880	1913.5
1.4	Channel	26047	26340	26683
	Frequency	1850.7	1880	1914.3

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 66 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775
5	Channel	131997	132322	132647
	Frequency	1712.5	1745	1777.5
3	Channel	131987	132322	132657
	Frequency	1711.5	1745	1778.5
1.4	Channel	131979	132322	132665
	Frequency	1710.7	1745	1779.3

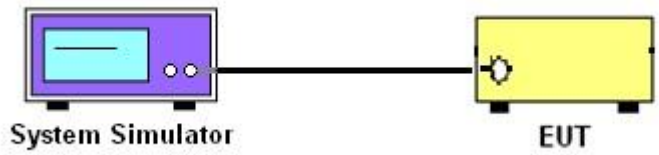
3 Conducted Test Items

3.1 Measuring Instruments

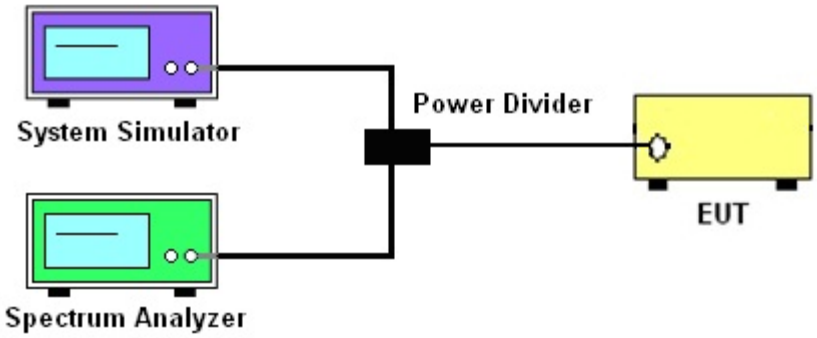
See list of measuring instruments of this test report.

3.2 Test Setup

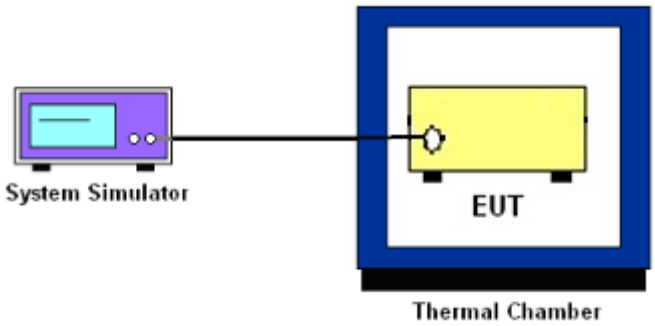
3.2.1 Conducted Output Power



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, Band 13.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 25 and Band 7.

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4, and Band 66.

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 transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. 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 FCC KDB 971168 v02r02 Section 5.7.1.
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 FCC KDB 971168 v02r02 Section 4.1 and 4.2.
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[Watts]) dB below the transmitter power P(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[Watts]) dB below the transmitter power P(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 (c)

For operations in the 776-788 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least 65 + 10 log10 p(watts), dB, for mobile and portable equipment.

27.53 (g)

For operations in the 698 -746 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53 (h)

For operations in the 1710 – 1755 MHz and 1710 – 1780 MHz band, the FCC limit is 43 + $10\log_{10}$(P[Watts]) dB below the transmitter power P(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 that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

3.7.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 6.0.
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 >= 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 + 10log(P)dB below the transmitter power P(Watts)

   = P(W)- [43 + 10log(P)] (dB)

   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
9. For LTE Band 7, 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:

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 FCC KDB 971168 v02r02 Section 6.0.
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 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
11. For Band 7
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [55+ 10log(P)] (dB)
    = [30+ 10log(P)] (dBm) - [55+ 10log(P)] (dB)
    = -25dBm.

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 ±0.00025% (±2.5ppm) of the center frequency.

3.9.2 Test Procedures for Temperature Variation

1. The testing follows FCC KDB 971168 v02r02 Section 9.0.
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 FCC KDB 971168 v02r02 Section 9.0.
2. The EUT was placed in a temperature chamber at 20±5° 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 measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

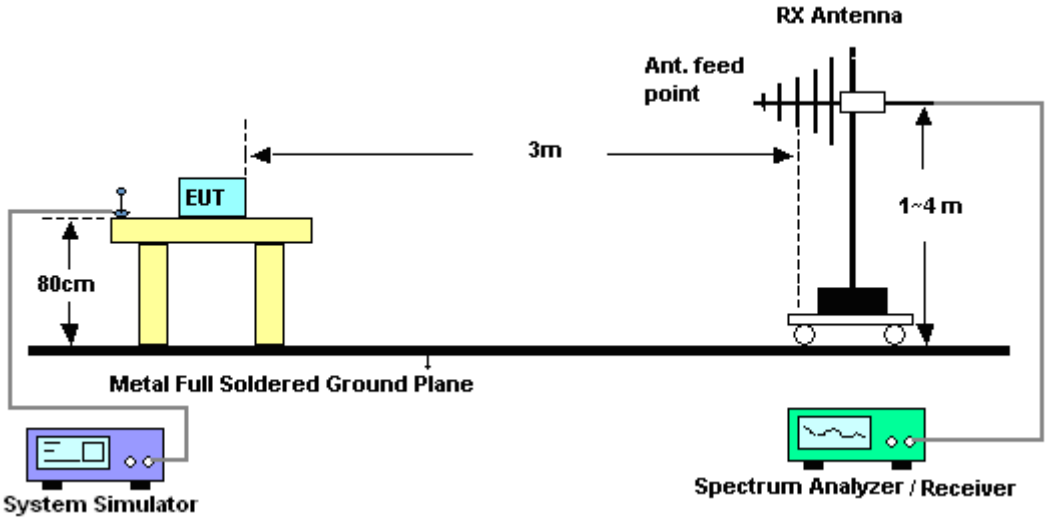
4 Radiated Test Items

4.1 Measuring Instruments

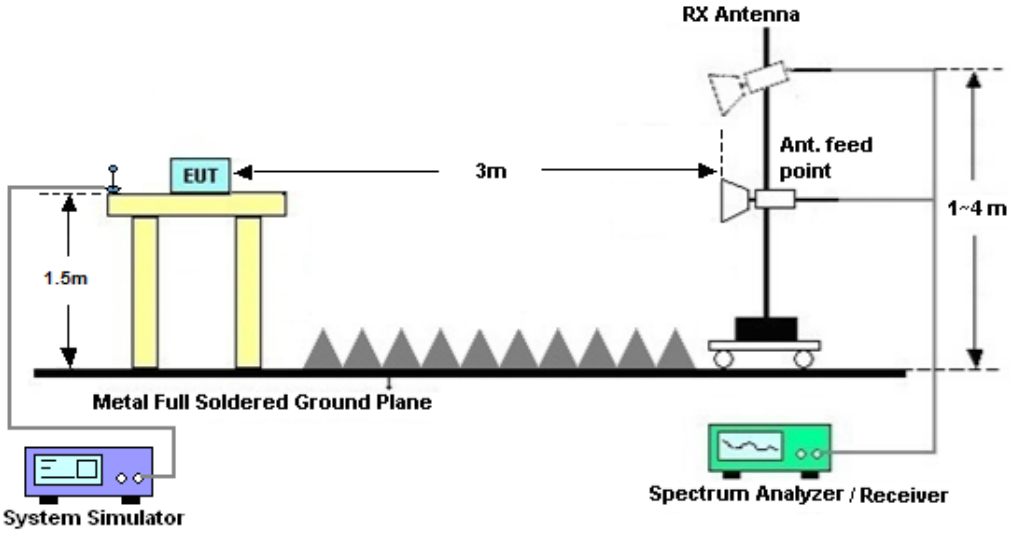
See list of measuring instruments of this test report.

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 / TIA / EIA-603-D-2010. 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

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

For LTE Band 12,13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

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

4.4.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 5.8 and ANSI / TIA-603-D-2010 Section 2.2.12.
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (dBm) = EIRP - 2.15
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
    The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.

13. For Band 7:
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)
    EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
    ERP (dBm) = EIRP - 2.15

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. 08, 2017	Aug. 11, 2017~ Sep. 04, 2017	Aug. 07, 2018	Conducted (TH01-KS)
Thermal Chamber	Hongzhan	LP-150U	HZ014011440	-40~+150°C 20%~95%RH	Apr. 18, 2017	Aug. 11, 2017~ Sep. 04, 2017	Apr. 17, 2018	Conducted (TH01-KS)
Radio communication analyzer	Anritsu	MT8820C	6201300652	2G/3G/LTE Band	Jan. 19, 2017	Aug. 11, 2017~ Sep. 04, 2017	Jan. 18, 2018	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44GHz	Apr. 18, 2017	Aug. 28, 2017~ Sep. 14, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6112D	35406	25MHz-2GHz	Apr. 22, 2017	Aug. 28, 2017~ Sep. 14, 2017	Apr. 21, 2018	Radiation (03CH03-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1356	1GHz~18GHz	Apr. 22, 2017	Aug. 28, 2017~ Sep. 14, 2017	Apr. 21, 2018	Radiation (03CH03-KS)
SHF-EHF Horn	com-power	AH-840	101070	18GHz ~40GHz	Oct. 19, 2016	Aug. 28, 2017~ Sep. 14, 2017	Oct. 18, 2017	Radiation (03CH03-KS)
Amplifier	com-power	PA-103A	161069	1MHz ~1000MHz / 32 dB	Apr. 18, 2017	Aug. 28, 2017~ Sep. 14, 2017	Apr. 17, 2018	Radiation (03CH03-KS)
Amplifier	MITEQ	TTA1840-35 -HG	1887435	18~40GHz	Oct. 13, 2016	Aug. 28, 2017~ Sep. 14, 2017	Oct. 12, 2017	Radiation (03CH03-KS)
Amplifier	Agilent	8449B	3008A02370	1GHz~26.5GHz	Oct. 13, 2016	Aug. 28, 2017~ Sep. 14, 2017	Oct. 12, 2017	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Aug. 28, 2017~ Sep. 14, 2017	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Aug. 28, 2017~ Sep. 14, 2017	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Aug. 28, 2017~ Sep. 14, 2017	NCR	Radiation (03CH03-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))	**2.8 dB**

Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.3 dB**

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	21.09	21.27	21.19
20	1	49		20.88	21.12	21.03
20	1	99		20.88	21.14	21.07
20	50	0		20.04	20.25	20.17
20	50	24		19.96	20.19	20.12
20	50	50		19.88	20.16	20.10
20	100	0		19.97	20.20	20.13
20	1	0	16-QAM	20.42	20.50	20.55
20	1	49		20.22	20.34	20.36
20	1	99		20.20	20.46	20.42
20	50	0		19.02	19.27	19.16
20	50	24		18.95	19.20	19.13
20	50	50		18.92	19.18	19.11
20	100	0		18.98	19.22	19.13
20	1	0	64QAM	20.17	20.40	20.36
20	1	49		20.03	20.26	20.17
20	1	99		19.95	20.28	20.21
20	50	0		19.03	19.26	19.14
20	50	24		18.96	19.18	19.13
20	50	50		18.90	19.18	19.11
20	100	0		18.98	19.21	19.14

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.05	21.24	21.21
15	1	37		20.85	21.01	21.02
15	1	74		20.87	21.03	21.09
15	36	0		19.98	20.09	20.14
15	36	20		19.94	20.06	20.12
15	36	39		19.86	20.04	20.09
15	75	0		19.90	20.08	20.09
15	1	0	16-QAM	20.34	20.49	20.48
15	1	37		20.17	20.24	20.31
15	1	74		20.18	20.29	20.44
15	36	0		18.96	19.10	19.14
15	36	20		18.93	19.05	19.14
15	36	39		18.88	19.04	19.09
15	75	0		18.94	19.06	19.12
15	1	0	64QAM	20.11	20.34	20.32
15	1	37		20.05	20.13	20.17
15	1	74		19.96	20.19	20.10
15	36	0		18.88	19.11	19.14
15	36	20		18.89	19.09	19.12
15	36	39		18.91	19.02	19.09
15	75	0		18.94	19.05	19.11

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	20.86	21.04	21.10
10	1	25		20.72	20.96	21.02
10	1	49		20.69	20.95	21.03
10	25	0		19.83	20.06	20.09
10	25	12		19.82	20.03	20.10
10	25	25		19.77	20.01	20.07
10	50	0		19.81	20.04	20.08
10	1	0	16-QAM	20.13	20.31	20.46
10	1	25		20.00	20.27	20.31
10	1	49		20.00	20.22	20.40
10	25	0		18.85	19.05	19.12
10	25	12		18.83	19.06	19.08
10	25	25		18.79	19.04	19.08
10	50	0		18.81	19.04	19.08
10	1	0	64QAM	19.98	20.19	20.29
10	1	25		19.85	20.12	20.17
10	1	49		19.79	20.22	20.30
10	25	0		18.85	19.03	19.10
10	25	12		18.82	19.05	19.09
10	25	25		18.79	19.00	19.07
10	50	0		18.79	19.03	19.09

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	20.79	21.03	21.07
5	1	12		20.72	20.97	21.04
5	1	24		20.72	20.96	21.07
5	12	0		19.76	20.02	20.06
5	12	7		19.78	20.00	20.06
5	12	13		19.74	19.97	20.07
5	25	0		19.75	19.99	20.08
5	1	0	16-QAM	19.99	20.31	20.35
5	1	12		20.00	20.24	20.38
5	1	24		20.03	20.25	20.39
5	12	0		18.83	19.03	19.08
5	12	7		18.80	19.04	19.10
5	12	13		18.77	19.05	19.09
5	25	0		18.78	18.98	19.06
5	1	0	64QAM	19.86	20.24	20.16
5	1	12		19.88	20.05	20.25
5	1	24		19.82	20.11	20.24
5	12	0		18.81	19.04	19.08
5	12	7		18.78	19.02	19.08
5	12	13		18.77	18.98	19.06
5	25	0		18.78	18.99	19.07

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	20.82	21.17	21.02
3	1	8		20.90	21.25	21.14
3	1	14		20.76	21.04	21.04
3	8	0		19.81	20.05	20.02
3	8	4		19.83	20.06	20.04
3	8	7		19.79	20.05	20.03
3	15	0		19.80	20.06	20.03
3	1	0	16-QAM	20.07	20.30	20.30
3	1	8		20.25	20.41	20.50
3	1	14		20.06	20.30	20.32
3	8	0		18.90	19.13	19.08
3	8	4		18.92	19.10	19.12
3	8	7		18.87	19.11	19.05
3	15	0		18.84	19.07	19.06
3	1	0	64QAM	20.03	20.16	20.14
3	1	8		20.01	20.25	20.26
3	1	14		19.96	20.20	20.17
3	8	0		18.84	19.12	19.04
3	8	4		18.87	19.10	19.06
3	8	7		18.79	19.05	19.03
3	15	0		18.83	19.09	19.03

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	20.84	20.98	20.96
1.4	1	3		20.91	21.04	21.01
1.4	1	5		20.80	20.98	20.91
1.4	3	0		20.82	21.01	20.96
1.4	3	1		20.76	21.05	21.02
1.4	3	3		20.80	21.02	20.99
1.4	6	0		19.74	19.99	19.95
1.4	1	0	16-QAM	20.01	20.22	20.32
1.4	1	3		20.09	20.35	20.37
1.4	1	5		20.01	20.26	20.29
1.4	3	0		19.87	20.12	20.10
1.4	3	1		19.91	20.14	20.10
1.4	3	3		19.91	20.11	20.11
1.4	6	0		18.83	19.03	19.02
1.4	1	0	64QAM	19.84	20.08	20.03
1.4	1	3		19.90	20.18	20.22
1.4	1	5		19.79	20.13	20.11
1.4	3	0		19.78	20.05	20.03
1.4	3	1		19.87	20.14	20.15
1.4	3	3		19.92	20.13	20.08
1.4	6	0		18.75	19.01	18.94

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	21.13	21.02	21.17
20	1	49		20.89	20.80	20.94
20	1	99		20.82	20.76	20.86
20	50	0		20.10	20.00	20.12
20	50	24		20.02	19.89	20.04
20	50	50		19.93	19.85	19.96
20	100	0		20.02	19.90	20.05
20	1	0	16-QAM	20.41	20.35	20.48
20	1	49		20.20	20.16	20.19
20	1	99		20.12	20.05	20.20
20	50	0		19.12	18.98	19.14
20	50	24		19.05	18.95	19.06
20	50	50		18.99	18.83	18.99
20	100	0		19.03	18.94	19.04
20	1	0	64QAM	20.27	20.24	20.32
20	1	49		20.08	19.92	19.98
20	1	99		19.95	19.85	20.00
20	50	0		19.12	18.98	19.12
20	50	24		19.03	18.92	19.06
20	50	50		18.96	18.84	18.99
20	100	0		19.02	18.93	19.03

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.09	21.01	21.12
15	1	37		20.90	20.82	20.92
15	1	74		20.88	20.80	20.91
15	36	0		20.07	19.95	20.07
15	36	20		19.97	19.90	20.01
15	36	39		19.95	19.82	19.97
15	75	0		19.98	19.90	20.00
15	1	0	16-QAM	20.44	20.35	20.41
15	1	37		20.15	20.08	20.25
15	1	74		20.21	20.13	20.14
15	36	0		19.07	18.98	19.11
15	36	20		19.04	18.90	19.04
15	36	39		18.94	18.84	18.98
15	75	0		18.99	18.89	19.02
15	1	0	64QAM	20.25	20.15	20.29
15	1	37		20.05	19.95	20.08
15	1	74		19.97	19.94	20.02
15	36	0		19.03	18.96	19.09
15	36	20		19.04	18.92	19.04
15	36	39		18.94	18.82	18.97
15	75	0		19.01	18.88	19.01

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	21.11	20.92	21.04
10	1	25		21.00	20.80	20.87
10	1	49		20.95	20.76	20.86
10	25	0		20.10	19.89	20.03
10	25	12		20.05	19.87	19.99
10	25	25		20.02	19.83	19.95
10	50	0		20.04	19.87	19.99
10	1	0	16-QAM	20.39	20.26	20.34
10	1	25		20.33	20.08	20.19
10	1	49		20.26	20.06	20.13
10	25	0		19.08	18.91	19.05
10	25	12		19.09	18.89	19.01
10	25	25		19.03	18.85	18.98
10	50	0		19.07	18.86	19.00
10	1	0	64QAM	20.25	20.05	20.14
10	1	25		20.15	19.86	20.02
10	1	49		20.09	19.88	19.96
10	25	0		19.13	18.90	19.05
10	25	12		19.08	18.89	19.00
10	25	25		19.03	18.83	18.96
10	50	0		19.05	18.85	19.01

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.05	20.86	20.95
5	1	12		20.98	20.77	20.91
5	1	24		20.99	20.77	20.87
5	12	0		20.03	19.84	19.95
5	12	7		20.03	19.83	19.95
5	12	13		20.00	19.83	19.93
5	25	0		20.01	19.84	19.94
5	1	0	16-QAM	20.35	20.16	20.26
5	1	12		20.30	20.10	20.15
5	1	24		20.33	20.07	20.16
5	12	0		19.07	18.90	19.04
5	12	7		19.11	18.92	19.01
5	12	13		19.06	18.89	18.97
5	25	0		19.05	18.85	18.96
5	1	0	64QAM	20.16	20.04	20.10
5	1	12		20.09	19.91	19.99
5	1	24		20.07	19.93	20.03
5	12	0		19.08	18.88	19.00
5	12	7		19.07	18.90	18.98
5	12	13		19.01	18.83	18.95
5	25	0		19.05	18.86	18.96

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	21.00	20.81	20.89
3	1	8		21.05	20.88	20.99
3	1	14		20.92	20.73	20.85
3	8	0		20.00	19.82	19.91
3	8	4		20.02	19.83	19.92
3	8	7		19.99	19.78	19.90
3	15	0		19.99	19.82	19.92
3	1	0	16-QAM	20.25	20.11	20.21
3	1	8		20.38	20.18	20.26
3	1	14		20.19	19.99	20.11
3	8	0		19.06	18.89	18.98
3	8	4		19.11	18.89	19.00
3	8	7		19.05	18.87	18.97
3	15	0		19.05	18.83	18.96
3	1	0	64QAM	20.12	19.94	20.04
3	1	8		20.20	19.98	20.08
3	1	14		19.99	19.92	20.03
3	8	0		19.05	18.87	18.95
3	8	4		19.07	18.86	18.97
3	8	7		19.01	18.84	18.95
3	15	0		19.02	18.81	18.94

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	20.89	20.70	20.83
1.4	1	3		20.95	20.78	20.91
1.4	1	5		20.87	20.71	20.81
1.4	3	0		20.92	20.73	20.84
1.4	3	1		20.96	20.78	20.89
1.4	3	3		20.95	20.77	20.88
1.4	6	0		19.90	19.73	19.86
1.4	1	0	16-QAM	20.19	19.97	20.10
1.4	1	3		20.28	20.02	20.19
1.4	1	5		20.16	19.94	20.11
1.4	3	0		20.06	19.85	19.95
1.4	3	1		20.09	19.89	19.96
1.4	3	3		20.03	19.92	19.97
1.4	6	0		18.96	18.74	18.90
1.4	1	0	64QAM	19.97	19.86	19.99
1.4	1	3		20.08	19.89	19.98
1.4	1	5		20.08	19.87	19.90
1.4	3	0		20.00	19.84	19.88
1.4	3	1		20.04	19.88	19.97
1.4	3	3		20.04	19.88	19.94
1.4	6	0		18.95	18.79	18.87

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	21.54	21.69	21.78
10	1	25		21.52	21.62	21.56
10	1	49		21.42	21.55	21.48
10	25	0		20.56	20.68	20.67
10	25	12		20.55	20.71	20.67
10	25	25		20.49	20.65	20.59
10	50	0		20.54	20.69	20.60
10	1	0	16-QAM	20.81	20.94	20.83
10	1	25		20.76	20.86	20.82
10	1	49		20.69	20.82	20.73
10	25	0		19.59	19.77	19.69
10	25	12		19.59	19.75	19.70
10	25	25		19.51	19.70	19.63
10	50	0		19.54	19.71	19.64
10	1	0	64QAM	20.66	20.81	20.84
10	1	25		20.64	20.72	20.68
10	1	49		20.63	20.77	20.66
10	25	0		19.59	19.73	19.71
10	25	12		19.58	19.75	19.67
10	25	25		19.50	19.70	19.59
10	50	0		19.53	19.71	19.65

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.75	21.70	21.59
5	1	12		21.75	21.70	21.55
5	1	24		21.72	21.60	21.54
5	12	0		20.77	20.71	20.60
5	12	7		20.80	20.69	20.61
5	12	13		20.78	20.66	20.57
5	25	0		20.76	20.64	20.57
5	1	0	16-QAM	20.97	20.93	20.84
5	1	12		20.89	20.85	20.80
5	1	24		20.98	20.81	20.79
5	12	0		19.83	19.73	19.66
5	12	7		19.83	19.75	19.65
5	12	13		19.82	19.71	19.57
5	25	0		19.77	19.70	19.61
5	1	0	64QAM	20.84	20.78	20.72
5	1	12		20.84	20.86	20.64
5	1	24		20.85	20.71	20.62
5	12	0		19.83	19.71	19.60
5	12	7		19.82	19.72	19.64
5	12	13		19.78	19.69	19.62
5	25	0		19.79	19.69	19.59

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	21.66	21.61	21.60
3	1	8		21.77	21.74	21.61
3	1	14		21.65	21.57	21.52
3	8	0		20.61	20.67	20.58
3	8	4		20.65	20.66	20.56
3	8	7		20.62	20.61	20.56
3	15	0		20.62	20.64	20.55
3	1	0	16-QAM	20.87	20.83	20.81
3	1	8		20.96	20.98	20.98
3	1	14		20.83	20.87	20.74
3	8	0		19.68	19.71	19.64
3	8	4		19.72	19.74	19.61
3	8	7		19.66	19.70	19.61
3	15	0		19.65	19.66	19.59
3	1	0	64QAM	20.76	20.79	20.70
3	1	8		20.84	20.92	20.75
3	1	14		20.73	20.64	20.64
3	8	0		19.69	19.72	19.62
3	8	4		19.67	19.71	19.63
3	8	7		19.65	19.64	19.59
3	15	0		19.67	19.66	19.56

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	21.67	21.51	21.48
1.4	1	3		21.71	21.60	21.54
1.4	1	5		21.64	21.54	21.46
1.4	3	0		21.71	21.58	21.49
1.4	3	1		21.67	21.58	21.51
1.4	3	3		21.65	21.59	21.53
1.4	6	0		20.55	20.55	20.49
1.4	1	0	16-QAM	20.83	20.76	20.67
1.4	1	3		20.85	20.86	20.77
1.4	1	5		20.83	20.76	20.71
1.4	3	0		20.65	20.64	20.59
1.4	3	1		20.69	20.69	20.59
1.4	3	3		20.73	20.70	20.60
1.4	6	0		19.63	19.61	19.53
1.4	1	0	64QAM	20.68	20.72	20.54
1.4	1	3		20.74	20.75	20.65
1.4	1	5		20.65	20.66	20.61
1.4	3	0		20.67	20.69	20.64
1.4	3	1		20.72	20.67	20.66
1.4	3	3		20.72	20.73	20.61
1.4	6	0		19.60	19.65	19.55

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	21.44	21.51	21.19
20	1	49		21.20	21.32	21.01
20	1	99		21.13	21.14	20.91
20	50	0		20.31	20.35	20.13
20	50	24		20.26	20.27	20.09
20	50	50		20.15	20.19	20.00
20	100	0		20.15	20.26	20.08
20	1	0	16-QAM	20.50	20.65	20.47
20	1	49		20.40	20.52	20.25
20	1	99		20.38	20.46	20.21
20	50	0		19.22	19.36	19.13
20	50	24		19.18	19.30	19.08
20	50	50		19.10	19.22	18.98
20	100	0		19.12	19.28	19.06
20	1	0	64QAM	20.40	20.49	20.28
20	1	49		20.20	20.33	20.13
20	1	99		20.17	20.20	20.03
20	50	0		19.22	19.34	19.15
20	50	24		19.18	19.29	19.07
20	50	50		19.07	19.20	19.01
20	100	0		19.14	19.27	19.07

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.03	21.39	21.14
15	1	37		20.84	21.14	20.95
15	1	74		20.83	21.14	20.92
15	36	0		19.96	20.31	20.07
15	36	20		19.91	20.27	20.04
15	36	39		19.86	20.21	19.97
15	75	0		19.91	20.22	20.03
15	1	0	16-QAM	20.36	20.59	20.42
15	1	37		20.26	20.47	20.29
15	1	74		20.08	20.41	20.21
15	36	0		18.96	19.31	19.08
15	36	20		18.95	19.30	19.06
15	36	39		18.90	19.21	19.00
15	75	0		18.92	19.26	19.04
15	1	0	64QAM	20.15	20.50	20.27
15	1	37		20.01	20.41	20.07
15	1	74		19.98	20.28	20.04
15	36	0		18.95	19.32	19.08
15	36	20		18.94	19.28	19.05
15	36	39		18.86	19.19	18.98
15	75	0		18.90	19.26	19.04

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	21.05	21.27	21.08
10	1	25		20.98	21.18	20.97
10	1	49		20.95	21.12	20.94
10	25	0		20.04	20.26	20.04
10	25	12		20.04	20.24	20.04
10	25	25		19.99	20.19	19.97
10	50	0		20.03	20.23	20.01
10	1	0	16-QAM	20.39	20.51	20.36
10	1	25		20.28	20.53	20.29
10	1	49		20.23	20.37	20.23
10	25	0		19.08	19.27	19.07
10	25	12		19.05	19.26	19.06
10	25	25		18.99	19.22	18.99
10	50	0		19.06	19.24	19.03
10	1	0	64QAM	20.25	20.45	20.22
10	1	25		20.09	20.34	20.11
10	1	49		20.06	20.31	20.04
10	25	0		19.08	19.30	19.06
10	25	12		19.06	19.27	19.04
10	25	25		18.99	19.21	19.00
10	50	0		19.05	19.25	19.04

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	20.92	21.21	20.97
5	1	12		20.92	21.19	20.95
5	1	24		20.85	21.15	20.89
5	12	0		19.91	20.22	20.01
5	12	7		19.94	20.26	19.99
5	12	13		19.90	20.22	19.98
5	25	0		19.91	20.22	19.97
5	1	0	16-QAM	20.29	20.59	20.27
5	1	12		20.20	20.53	20.29
5	1	24		20.20	20.39	20.14
5	12	0		18.96	19.26	19.07
5	12	7		18.99	19.31	19.06
5	12	13		18.95	19.26	19.01
5	25	0		18.95	19.24	19.01
5	1	0	64QAM	20.02	20.38	20.09
5	1	12		20.01	20.34	20.04
5	1	24		19.99	20.29	20.02
5	12	0		18.94	19.29	19.04
5	12	7		18.98	19.28	19.03
5	12	13		18.94	19.26	18.99
5	25	0		18.95	19.25	18.99

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	21.24	21.13	21.09
10	1	25		21.14	21.11	21.05
10	1	49		21.09	21.05	21.02
10	25	0		20.22	20.19	20.11
10	25	12		20.22	20.15	20.11
10	25	25		20.16	20.09	20.07
10	50	0		20.17	20.15	20.10
10	1	0	16-QAM	20.42	20.41	20.40
10	1	25		20.51	20.42	20.28
10	1	49		20.43	20.32	20.24
10	25	0		19.24	19.21	19.13
10	25	12		19.24	19.19	19.12
10	25	25		19.20	19.13	19.11
10	50	0		19.21	19.15	19.09
10	1	0	64QAM	20.34	20.25	20.27
10	1	25		20.47	20.19	20.22
10	1	49		20.23	20.18	20.12
10	25	0		19.22	19.17	19.14
10	25	12		19.25	19.15	19.11
10	25	25		19.17	19.11	19.10
10	50	0		19.19	19.16	19.08

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.15	21.13	21.28
5	1	12		21.15	21.13	21.24
5	1	24		21.17	21.10	21.18
5	12	0		20.24	20.16	20.27
5	12	7		20.23	20.17	20.25
5	12	13		20.21	20.12	20.23
5	25	0		20.20	20.11	20.24
5	1	0	16-QAM	20.41	20.46	20.57
5	1	12		20.45	20.42	20.47
5	1	24		20.56	20.40	20.39
5	12	0		19.28	19.20	19.30
5	12	7		19.24	19.19	19.30
5	12	13		19.24	19.17	19.26
5	25	0		19.23	19.15	19.26
5	1	0	64QAM	20.39	20.25	20.34
5	1	12		20.33	20.25	20.38
5	1	24		20.33	20.18	20.35
5	12	0		19.27	19.17	19.28
5	12	7		19.23	19.22	19.30
5	12	13		19.23	19.13	19.26
5	25	0		19.23	19.16	19.26

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	21.43	21.25	21.33
3	1	8		21.46	21.35	21.46
3	1	14		21.30	21.23	21.31
3	8	0		20.36	20.30	20.37
3	8	4		20.39	20.27	20.38
3	8	7		20.39	20.26	20.36
3	15	0		20.35	20.25	20.35
3	1	0	16-QAM	20.56	20.53	20.61
3	1	8		20.73	20.64	20.72
3	1	14		20.58	20.36	20.54
3	8	0		19.42	19.19	19.44
3	8	4		19.41	19.21	19.44
3	8	7		19.42	19.17	19.44
3	15	0		19.38	19.15	19.38
3	1	0	64QAM	20.50	20.27	20.47
3	1	8		20.45	20.34	20.46
3	1	14		20.40	20.20	20.40
3	8	0		19.38	19.23	19.38
3	8	4		19.45	19.16	19.38
3	8	7		19.42	19.18	19.37
3	15	0		19.41	19.14	19.36

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	21.18	21.02	21.23
1.4	1	3		21.19	21.12	21.31
1.4	1	5		21.15	21.06	21.24
1.4	3	0		21.20	21.07	21.28
1.4	3	1		21.25	21.13	21.31
1.4	3	3		21.25	21.12	21.31
1.4	6	0		20.20	20.06	20.24
1.4	1	0	16-QAM	20.41	20.28	20.51
1.4	1	3		20.51	20.35	20.53
1.4	1	5		20.32	20.23	20.45
1.4	3	0		20.28	20.18	20.37
1.4	3	1		20.31	20.24	20.43
1.4	3	3		20.35	20.21	20.43
1.4	6	0		19.24	19.11	19.35
1.4	1	0	64QAM	20.26	20.23	20.34
1.4	1	3		20.35	20.31	20.39
1.4	1	5		20.24	20.15	20.30
1.4	3	0		20.30	20.17	20.36
1.4	3	1		20.28	20.23	20.39
1.4	3	3		20.32	20.17	20.39
1.4	6	0		19.20	19.14	19.29

LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK		21.69	
10	1	25			21.52	
10	1	49			21.48	
10	25	0			20.61	
10	25	12			20.59	
10	25	25			20.56	
10	50	0			20.57	
10	1	0	16-QAM		20.88	
10	1	25			20.89	
10	1	49			20.74	
10	25	0			19.65	
10	25	12			19.63	
10	25	25			19.55	
10	50	0			19.58	
10	1	0	64QAM		20.73	
10	1	25			20.63	
10	1	49			20.62	
10	25	0			19.63	
10	25	12			19.62	
10	25	25			19.55	
10	50	0			19.58	

LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.51	21.57	21.55
5	1	12		21.47	21.53	21.55
5	1	24		21.47	21.53	21.53
5	12	0		20.51	20.58	20.56
5	12	7		20.53	20.57	20.56
5	12	13		20.49	20.55	20.52
5	25	0		20.48	20.55	20.53
5	1	0	16-QAM	20.77	20.82	20.86
5	1	12		20.74	20.83	20.76
5	1	24		20.70	20.78	20.76
5	12	0		19.53	19.62	19.62
5	12	7		19.54	19.64	19.62
5	12	13		19.51	19.59	19.59
5	25	0		19.52	19.60	19.58
5	1	0	64QAM	20.62	20.79	20.68
5	1	12		20.51	20.73	20.58
5	1	24		20.58	20.67	20.57
5	12	0		19.52	19.60	19.59
5	12	7		19.53	19.64	19.59
5	12	13		19.48	19.55	19.59
5	25	0		19.50	19.56	19.56

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	20.95	21.16	21.10
20	1	49		20.75	20.97	20.95
20	1	99		20.74	20.99	21.00
20	50	0		19.92	20.13	20.11
20	50	24		19.87	20.10	20.08
20	50	50		19.84	20.06	20.05
20	100	0		19.85	20.12	20.06
20	1	0	16-QAM	20.32	20.48	20.48
20	1	49		20.10	20.36	20.27
20	1	99		20.06	20.28	20.34
20	50	0		18.93	19.20	19.12
20	50	24		18.87	19.11	19.07
20	50	50		18.82	19.08	19.03
20	100	0		18.88	19.13	19.06
20	1	0	64QAM	20.12	20.21	20.27
20	1	49		19.94	20.13	20.14
20	1	99		19.88	20.15	20.20
20	50	0		18.92	19.19	19.09
20	50	24		18.86	19.12	19.06
20	50	50		18.83	19.09	19.01
20	100	0		18.88	19.13	19.07

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	20.94	21.15	21.07
15	1	37		20.75	20.95	20.95
15	1	74		20.76	21.03	21.01
15	36	0		19.90	20.11	20.09
15	36	20		19.85	20.10	20.05
15	36	39		19.80	20.07	20.04
15	75	0		19.81	20.07	20.05
15	1	0	16-QAM	20.16	20.49	20.38
15	1	37		20.05	20.37	20.34
15	1	74		20.01	20.38	20.35
15	36	0		18.87	19.14	19.10
15	36	20		18.85	19.11	19.05
15	36	39		18.81	19.15	19.06
15	75	0		18.85	19.19	19.08
15	1	0	64QAM	20.05	20.28	20.27
15	1	37		19.89	20.26	20.13
15	1	74		19.91	20.34	20.18
15	36	0		18.87	19.21	19.08
15	36	20		18.84	19.19	19.08
15	36	39		18.80	19.17	19.04
15	75	0		18.85	19.16	19.06

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	20.85	21.17	21.02
10	1	25		20.71	21.07	21.02
10	1	49		20.71	21.06	20.98
10	25	0		19.84	20.18	20.07
10	25	12		19.83	20.18	20.04
10	25	25		19.80	20.13	20.06
10	50	0		19.82	20.13	20.03
10	1	0	16-QAM	20.10	20.50	20.30
10	1	25		20.12	20.38	20.33
10	1	49		20.02	20.39	20.33
10	25	0		18.86	19.18	19.07
10	25	12		18.83	19.19	19.06
10	25	25		18.80	19.13	19.05
10	50	0		18.82	19.13	19.06
10	1	0	64QAM	20.02	20.31	20.15
10	1	25		19.87	20.24	20.21
10	1	49		19.85	20.21	20.08
10	25	0		18.86	19.20	19.07
10	25	12		18.83	19.17	19.09
10	25	25		18.78	19.14	19.06
10	50	0		18.82	19.14	19.06

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	20.79	21.13	21.06
5	1	12		20.71	21.07	21.01
5	1	24		20.74	21.07	21.02
5	12	0		19.79	20.15	20.04
5	12	7		19.79	20.13	20.07
5	12	13		19.78	20.12	20.07
5	25	0		19.78	20.12	20.03
5	1	0	16-QAM	20.07	20.37	20.35
5	1	12		20.06	20.44	20.38
5	1	24		20.03	20.42	20.34
5	12	0		18.83	19.21	19.10
5	12	7		18.88	19.19	19.05
5	12	13		18.82	19.14	19.10
5	25	0		18.79	19.18	19.04
5	1	0	64QAM	19.84	20.34	20.24
5	1	12		19.81	20.30	20.19
5	1	24		19.85	20.15	20.16
5	12	0		18.83	19.13	19.08
5	12	7		18.81	19.19	19.11
5	12	13		18.78	19.17	19.07
5	25	0		18.77	19.12	19.02

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	20.74	21.10	21.02
3	1	8		20.81	21.28	21.11
3	1	14		20.69	21.09	21.01
3	8	0		19.77	20.12	20.06
3	8	4		19.79	20.13	20.08
3	8	7		19.76	20.10	20.05
3	15	0		19.75	20.12	20.05
3	1	0	16-QAM	20.04	20.34	20.25
3	1	8		20.18	20.46	20.42
3	1	14		19.98	20.36	20.23
3	8	0		18.86	19.21	19.09
3	8	4		18.84	19.20	19.12
3	8	7		18.79	19.18	19.10
3	15	0		18.77	19.15	19.04
3	1	0	64QAM	19.94	20.11	20.13
3	1	8		19.97	20.33	20.17
3	1	14		19.79	20.26	20.18
3	8	0		18.79	19.16	19.08
3	8	4		18.79	19.19	19.12
3	8	7		18.79	19.14	19.07
3	15	0		18.79	19.09	19.05

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	20.68	21.01	20.94
1.4	1	3		20.74	21.07	21.04
1.4	1	5		20.66	21.01	20.95
1.4	3	0		20.70	21.05	20.99
1.4	3	1		20.73	21.09	21.01
1.4	3	3		20.74	21.08	21.03
1.4	6	0		19.70	20.04	19.99
1.4	1	0	16-QAM	19.87	20.38	20.27
1.4	1	3		20.08	20.37	20.27
1.4	1	5		19.89	20.31	20.24
1.4	3	0		19.78	20.16	20.06
1.4	3	1		19.81	20.18	20.14
1.4	3	3		19.82	20.24	20.12
1.4	6	0		18.78	19.10	19.03
1.4	1	0	64QAM	19.84	20.17	20.18
1.4	1	3		19.85	20.23	20.19
1.4	1	5		19.84	20.18	20.13
1.4	3	0		19.76	20.10	19.96
1.4	3	1		19.85	20.15	20.11
1.4	3	3		19.82	20.17	20.13
1.4	6	0		18.75	19.09	19.02

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.87	21.97	21.96
15	1	37		21.82	21.92	21.87
15	1	74		21.69	21.74	21.68
15	36	0		20.88	20.96	20.93
15	36	20		20.87	20.94	20.90
15	36	39		20.76	20.85	20.79
15	75	0		20.82	20.90	20.87
15	1	0	16-QAM	21.03	21.17	21.22
15	1	37		21.05	21.23	21.10
15	1	74		20.92	20.91	20.98
15	36	0		19.91	19.96	19.93
15	36	20		19.90	19.97	19.94
15	36	39		19.81	19.89	19.85
15	75	0		19.83	19.89	19.89
15	1	0	64QAM	20.89	20.99	21.07
15	1	37		20.94	21.06	20.98
15	1	74		20.86	20.85	20.77
15	36	0		19.90	19.94	19.92
15	36	20		19.90	19.95	19.94
15	36	39		19.80	19.85	19.83
15	75	0		19.82	19.89	19.88

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	21.97	21.91	21.81
10	1	25		21.90	21.92	21.70
10	1	49		21.83	21.78	21.64
10	25	0		20.97	20.92	20.77
10	25	12		20.97	20.90	20.75
10	25	25		20.92	20.84	20.67
10	50	0		20.93	20.84	20.73
10	1	0	16-QAM	21.13	21.15	21.04
10	1	25		21.19	21.18	20.97
10	1	49		21.16	20.96	20.87
10	25	0		20.00	19.95	19.81
10	25	12		20.00	19.93	19.77
10	25	25		19.91	19.87	19.70
10	50	0		19.95	19.88	19.76
10	1	0	64QAM	21.12	21.10	20.83
10	1	25		21.05	21.02	20.82
10	1	49		20.95	20.89	20.75
10	25	0		20.00	19.93	19.77
10	25	12		20.00	19.92	19.80
10	25	25		19.94	19.87	19.70
10	50	0		19.97	19.86	19.74

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.87	21.77	21.74
5	1	12		21.86	21.85	21.67
5	1	24		21.79	21.81	21.63
5	12	0		20.88	20.90	20.71
5	12	7		20.91	20.89	20.72
5	12	13		20.84	20.86	20.69
5	25	0		20.85	20.87	20.69
5	1	0	16-QAM	21.14	21.14	20.99
5	1	12		20.98	21.20	20.95
5	1	24		21.06	21.05	20.97
5	12	0		19.91	19.92	19.79
5	12	7		19.94	19.92	19.78
5	12	13		19.78	19.89	19.74
5	25	0		19.82	19.89	19.75
5	1	0	64QAM	20.90	21.09	20.83
5	1	12		20.85	20.93	20.80
5	1	24		20.84	20.95	20.73
5	12	0		19.80	19.90	19.77
5	12	7		19.83	19.89	19.72
5	12	13		19.81	19.90	19.69
5	25	0		19.78	19.88	19.73

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	21.86	21.74	21.68
3	1	8		21.90	21.84	21.75
3	1	14		21.82	21.69	21.62
3	8	0		20.87	20.78	20.69
3	8	4		20.88	20.79	20.71
3	8	7		20.76	20.76	20.65
3	15	0		20.72	20.76	20.68
3	1	0	16-QAM	20.95	21.10	20.96
3	1	8		21.04	21.25	20.98
3	1	14		20.86	21.12	20.82
3	8	0		19.80	19.90	19.75
3	8	4		19.83	19.82	19.76
3	8	7		19.86	19.81	19.73
3	15	0		19.80	19.80	19.73
3	1	0	64QAM	20.78	20.94	20.78
3	1	8		20.94	21.09	20.83
3	1	14		20.95	20.78	20.71
3	8	0		19.81	19.81	19.73
3	8	4		19.84	19.84	19.75
3	8	7		19.80	19.76	19.72
3	15	0		19.77	19.74	19.70

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	21.71	21.68	21.59
1.4	1	3		21.70	21.75	21.62
1.4	1	5		21.62	21.68	21.60
1.4	3	0		21.71	21.71	21.61
1.4	3	1		21.72	21.75	21.65
1.4	3	3		21.75	21.74	21.63
1.4	6	0		20.70	20.67	20.59
1.4	1	0	16-QAM	20.95	20.98	20.81
1.4	1	3		20.92	21.01	20.85
1.4	1	5		20.90	20.96	20.74
1.4	3	0		20.73	20.87	20.68
1.4	3	1		20.81	20.80	20.70
1.4	3	3		20.82	20.82	20.74
1.4	6	0		19.77	19.75	19.63
1.4	1	0	64QAM	20.78	20.76	20.70
1.4	1	3		20.86	20.91	20.76
1.4	1	5		20.77	20.72	20.67
1.4	3	0		20.76	20.75	20.69
1.4	3	1		20.81	20.82	20.75
1.4	3	3		20.82	20.77	20.72
1.4	6	0		19.70	19.71	19.65

LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	21.18	20.79	20.76
20	1	49		20.63	20.55	20.50
20	1	99		20.55	20.44	20.32
20	50	0		19.76	19.73	19.58
20	50	24		19.72	19.63	19.51
20	50	50		19.61	19.55	19.41
20	100	0		19.60	19.59	19.53
20	1	0	16-QAM	20.00	19.97	19.97
20	1	49		19.89	19.67	19.74
20	1	99		19.87	19.61	19.63
20	50	0		18.68	18.63	18.64
20	50	24		18.61	18.54	18.52
20	50	50		18.58	18.46	18.43
20	100	0		18.61	18.53	18.54
20	1	0	64QAM	19.92	19.81	19.78
20	1	49		19.68	19.59	19.50
20	1	99		19.67	19.48	19.45
20	50	0		18.72	18.59	18.62
20	50	24		18.64	18.51	18.50
20	50	50		18.56	18.45	18.44
20	100	0		18.63	18.52	18.51

LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	20.82	20.73	20.73
15	1	37		20.59	20.51	20.52
15	1	74		20.48	20.51	20.36
15	36	0		19.66	19.69	19.55
15	36	20		19.62	19.55	19.51
15	36	39		19.53	19.43	19.41
15	75	0		19.62	19.50	19.49
15	1	0	16-QAM	19.98	19.95	19.90
15	1	37		19.87	19.69	19.67
15	1	74		19.81	19.67	19.67
15	36	0		18.66	18.58	18.58
15	36	20		18.62	18.53	18.53
15	36	39		18.56	18.46	18.44
15	75	0		18.61	18.53	18.51
15	1	0	64QAM	19.87	19.73	19.71
15	1	37		19.66	19.52	19.48
15	1	74		19.60	19.52	19.51
15	36	0		18.69	18.57	18.57
15	36	20		18.60	18.53	18.50
15	36	39		18.56	18.45	18.43
15	75	0		18.59	18.50	18.50

LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	20.74	20.64	20.63
10	1	25		20.62	20.51	20.50
10	1	49		20.46	20.49	20.33
10	25	0		19.60	19.52	19.49
10	25	12		19.58	19.50	19.47
10	25	25		19.55	19.45	19.43
10	50	0		19.57	19.48	19.46
10	1	0	16-QAM	19.89	19.82	19.75
10	1	25		19.84	19.74	19.67
10	1	49		19.76	19.67	19.60
10	25	0		18.62	18.55	18.53
10	25	12		18.59	18.53	18.49
10	25	25		18.56	18.48	18.42
10	50	0		18.59	18.50	18.47
10	1	0	64QAM	19.72	19.64	19.61
10	1	25		19.65	19.60	19.51
10	1	49		19.55	19.50	19.50
10	25	0		18.59	18.51	18.51
10	25	12		18.61	18.50	18.47
10	25	25		18.55	18.48	18.43
10	50	0		18.56	18.48	18.47

LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	20.65	20.61	20.56
5	1	12		20.61	20.54	20.40
5	1	24		20.50	20.42	20.37
5	12	0		19.55	19.47	19.44
5	12	7		19.55	19.47	19.46
5	12	13		19.51	19.45	19.40
5	25	0		19.54	19.45	19.43
5	1	0	16-QAM	19.83	19.80	19.77
5	1	12		19.81	19.74	19.68
5	1	24		19.72	19.69	19.66
5	12	0		18.58	18.53	18.49
5	12	7		18.61	18.50	18.46
5	12	13		18.59	18.47	18.48
5	25	0		18.57	18.48	18.43
5	1	0	64QAM	19.74	19.60	19.54
5	1	12		19.62	19.59	19.53
5	1	24		19.61	19.56	19.53
5	12	0		18.58	18.52	18.45
5	12	7		18.56	18.50	18.46
5	12	13		18.52	18.47	18.43
5	25	0		18.54	18.48	18.45

LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	20.72	20.75	20.58
3	1	8		20.59	20.59	20.54
3	1	14		20.48	20.47	20.37
3	8	0		19.58	19.63	19.44
3	8	4		19.55	19.58	19.51
3	8	7		19.57	19.43	19.47
3	15	0		19.55	19.59	19.41
3	1	0	16-QAM	19.86	19.90	19.79
3	1	8		19.86	19.72	19.71
3	1	14		19.74	19.78	19.55
3	8	0		18.59	18.63	18.57
3	8	4		18.61	18.51	18.53
3	8	7		18.54	18.59	18.37
3	15	0		18.56	18.58	18.51
3	1	0	64QAM	19.74	19.62	19.65
3	1	8		19.63	19.71	19.46
3	1	14		19.52	19.58	19.54
3	8	0		18.61	18.49	18.55
3	8	4		18.59	18.61	18.42
3	8	7		18.52	18.56	18.47
3	15	0		18.58	18.46	18.51

LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	20.67	20.59	20.60
1.4	1	3		20.59	20.65	20.35
1.4	1	5		20.47	20.50	20.41
1.4	3	0		20.57	20.45	20.58
1.4	3	1		20.53	20.58	20.51
1.4	3	3		20.48	20.53	20.44
1.4	6	0		19.56	19.43	19.47
1.4	1	0	16-QAM	19.81	19.91	19.72
1.4	1	3		19.78	19.82	19.72
1.4	1	5		19.74	19.67	19.70
1.4	3	0		19.56	19.64	19.44
1.4	3	1		19.58	19.58	19.50
1.4	3	3		19.61	19.45	19.52
1.4	6	0		18.55	18.59	18.38
1.4	1	0	64QAM	18.71	18.68	18.58
1.4	1	3		18.64	18.57	18.57
1.4	1	5		18.59	18.67	18.48
1.4	3	0		18.55	18.60	18.49
1.4	3	1		18.58	18.48	18.50
1.4	3	3		18.50	18.58	18.38
1.4	6	0		18.51	18.56	18.49

ERP/EIRP

<WWAN Internal Antenna>

LTE Band 2 (G_T - L_C = 2.06 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 (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	20.76	21.05	21.02	20.90	21.25	21.14	20.79	21.03	21.07
Conducted Power (Watts)	0.1191	0.1274	0.1265	0.1230	0.1334	0.1300	0.1199	0.1268	0.1279
EIRP(dBm)	22.82	23.11	23.08	22.96	23.31	23.20	22.85	23.09	23.13
EIRP(Watts)	0.1914	0.2046	0.2032	0.1977	0.2143	0.2089	0.1928	0.2037	0.2056

LTE Band 2 (G_T - L_C = 2.06 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 (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	20.86	21.04	21.10	21.05	21.24	21.21	21.09	21.27	21.19
Conducted Power (Watts)	0.1219	0.1271	0.1288	0.1274	0.1330	0.1321	0.1285	0.1340	0.1315
EIRP(dBm)	22.92	23.10	23.16	23.11	23.30	23.27	23.15	23.33	23.25
EIRP(Watts)	0.1959	0.2042	0.2070	0.2046	0.2138	0.2123	0.2065	0.2153	0.2113

LTE Band 2 (G_T - L_C = 2.06 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 (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	20.09	20.35	20.37	20.25	20.41	20.50	20.03	20.25	20.39
Conducted Power (Watts)	0.1021	0.1084	0.1089	0.1059	0.1099	0.1122	0.1007	0.1059	0.1094
EIRP(dBm)	22.15	22.41	22.43	22.31	22.47	22.56	22.09	22.31	22.45
EIRP(Watts)	0.1641	0.1742	0.1750	0.1702	0.1766	0.1803	0.1618	0.1702	0.1758

LTE Band 2 (G_T - L_C = 2.06 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 (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	20.13	20.31	20.46	20.34	20.49	20.48	20.42	20.50	20.55
Conducted Power (Watts)	0.1030	0.1074	0.1112	0.1081	0.1119	0.1117	0.1102	0.1122	0.1135
EIRP(dBm)	22.19	22.37	22.52	22.40	22.55	22.54	22.48	22.56	22.61
EIRP(Watts)	0.1656	0.1726	0.1786	0.1738	0.1799	0.1795	0.1770	0.1803	0.1824

LTE Band 2 (G_T - L_C = 2.06 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 (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	19.90	20.18	20.22	20.01	20.25	20.26	19.88	20.05	20.25
Conducted Power (Watts)	0.0977	0.1042	0.1052	0.1002	0.1059	0.1062	0.0973	0.1012	0.1059
EIRP(dBm)	21.96	22.24	22.28	22.07	22.31	22.32	21.94	22.11	22.31
EIRP(Watts)	0.1570	0.1675	0.1690	0.1611	0.1702	0.1706	0.1563	0.1626	0.1702

LTE Band 2 (G_T - L_C = 2.06 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 (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	19.79	20.22	20.30	20.11	20.34	20.32	20.17	20.40	20.36
Conducted Power (Watts)	0.0953	0.1052	0.1072	0.1026	0.1081	0.1076	0.1040	0.1096	0.1086
EIRP(dBm)	21.85	22.28	22.36	22.17	22.40	22.38	22.23	22.46	22.42
EIRP(Watts)	0.1531	0.1690	0.1722	0.1648	0.1738	0.1730	0.1671	0.1762	0.1746

LTE Band 4 (G_T - L_C = 2.33 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 (MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	20.96	20.78	20.89	21.05	20.88	20.99	21.05	20.86	20.95
Conducted Power (Watts)	0.1247	0.1197	0.1227	0.1274	0.1225	0.1256	0.1274	0.1219	0.1245
EIRP(dBm)	23.29	23.11	23.22	23.38	23.21	23.32	23.38	23.19	23.28
EIRP(Watts)	0.2133	0.2046	0.2099	0.2178	0.2094	0.2148	0.2178	0.2084	0.2128

LTE Band 4 (G_T - L_C = 2.33 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 (MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
Conducted Power (dBm)	21.11	20.92	21.04	21.09	21.01	21.12	21.13	21.02	21.17
Conducted Power (Watts)	0.1291	0.1236	0.1271	0.1285	0.1262	0.1294	0.1297	0.1265	0.1309
EIRP(dBm)	23.44	23.25	23.37	23.42	23.34	23.45	23.46	23.35	23.50
EIRP(Watts)	0.2208	0.2113	0.2173	0.2198	0.2158	0.2213	0.2218	0.2163	0.2239

LTE Band 4 (G_T - L_C = 2.33 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 (MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	20.28	20.02	20.19	20.38	20.18	20.26	20.35	20.16	20.26
Conducted Power (Watts)	0.1067	0.1005	0.1045	0.1091	0.1042	0.1062	0.1084	0.1038	0.1062
EIRP(dBm)	22.61	22.35	22.52	22.71	22.51	22.59	22.68	22.49	22.59
EIRP(Watts)	0.1824	0.1718	0.1786	0.1866	0.1782	0.1816	0.1854	0.1774	0.1816

LTE Band 4 (G_T - L_C = 2.33 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 (MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
Conducted Power (dBm)	20.39	20.26	20.34	20.44	20.35	20.41	20.41	20.35	20.48
Conducted Power (Watts)	0.1094	0.1062	0.1081	0.1107	0.1084	0.1099	0.1099	0.1084	0.1117
EIRP(dBm)	22.72	22.59	22.67	22.77	22.68	22.74	22.74	22.68	22.81
EIRP(Watts)	0.1871	0.1816	0.1849	0.1892	0.1854	0.1879	0.1879	0.1854	0.1910

LTE Band 4 (G_T - L_C = 2.33 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 (MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	20.08	19.89	19.98	20.20	19.98	20.08	20.16	20.04	20.10
Conducted Power (Watts)	0.1019	0.0975	0.0995	0.1047	0.0995	0.1019	0.1038	0.1009	0.1023
EIRP(dBm)	22.41	22.22	22.31	22.53	22.31	22.41	22.49	22.37	22.43
EIRP(Watts)	0.1742	0.1667	0.1702	0.1791	0.1702	0.1742	0.1774	0.1726	0.1750

LTE Band 4 (G_T - L_C = 2.33 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 (MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
Conducted Power (dBm)	20.25	20.05	20.14	20.25	20.15	20.29	20.27	20.24	20.32
Conducted Power (Watts)	0.1059	0.1012	0.1033	0.1059	0.1035	0.1069	0.1064	0.1057	0.1076
EIRP(dBm)	22.58	22.38	22.47	22.58	22.48	22.62	22.60	22.57	22.65
EIRP(Watts)	0.1811	0.1730	0.1766	0.1811	0.1770	0.1828	0.1820	0.1807	0.1841

LTE Band 5 (G_T - L_C = 1.02 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	21.71	21.60	21.54	21.77	21.74	21.61	21.75	21.70	21.59
Conducted Power (Watts)	0.1483	0.1445	0.1426	0.1503	0.1493	0.1449	0.1496	0.1479	0.1442
ERP(dBm)	20.58	20.47	20.41	20.64	20.61	20.48	20.62	20.57	20.46
ERP(Watts)	0.1143	0.1114	0.1099	0.1159	0.1151	0.1117	0.1153	0.1140	0.1112

LTE Band 5 (G_T - L_C = 1.02 dB) QPSK			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency (MHz)	829	836.5	844
Conducted Power (dBm)	21.54	21.69	21.78
Conducted Power (Watts)	0.1426	0.1476	0.1507
ERP(dBm)	20.41	20.56	20.65
ERP(Watts)	0.1099	0.1138	0.1161

LTE Band 5 (G_T - L_C =1.02 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	20.85	20.86	20.77	20.96	20.98	20.98	20.98	20.81	20.79
Conducted Power (Watts)	0.1216	0.1219	0.1194	0.1247	0.1253	0.1253	0.1253	0.1205	0.1199
ERP(dBm)	19.72	19.73	19.64	19.83	19.85	19.85	19.85	19.68	19.66
ERP(Watts)	0.0938	0.0940	0.0920	0.0962	0.0966	0.0966	0.0966	0.0929	0.0925

LTE Band 5 (G_T - L_C = 1.02 dB) 16QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency (MHz)	829	836.5	844
Conducted Power (dBm)	20.81	20.94	20.83
Conducted Power (Watts)	0.1205	0.1242	0.1211
ERP(dBm)	19.68	19.81	19.70
ERP(Watts)	0.0929	0.0957	0.0933

LTE Band 5 (G_T - L_C = 1.02 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	20.74	20.75	20.65	20.84	20.92	20.75	20.84	20.86	20.64
Conducted Power (Watts)	0.1186	0.1189	0.1161	0.1213	0.1236	0.1189	0.1213	0.1219	0.1159
ERP(dBm)	19.61	19.62	19.52	19.71	19.79	19.62	19.71	19.73	19.51
ERP(Watts)	0.0914	0.0916	0.0895	0.0935	0.0953	0.0916	0.0935	0.0940	0.0893

LTE Band 5 (G_T - L_C = 1.02 dB) 64QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency (MHz)	829	836.5	844
Conducted Power (dBm)	20.66	20.81	20.84
Conducted Power (Watts)	0.1164	0.1205	0.1213
ERP(dBm)	19.53	19.68	19.71
ERP(Watts)	0.0897	0.0929	0.0935

LTE Band 7 (G_T - L_C = 2.92 dB) QPSK			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	20.92	21.21	20.97
Conducted Power (Watts)	0.1236	0.1321	0.1250
EIRP(dBm)	23.84	24.13	23.89
EIRP(Watts)	0.2421	0.2588	0.2449

LTE Band 7 (G_T - L_C = 2.92 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
Conducted Power (dBm)	21.05	21.27	21.08	21.03	21.39	21.14	21.44	21.51	21.19
Conducted Power (Watts)	0.1274	0.1340	0.1282	0.1268	0.1377	0.1300	0.1393	0.1416	0.1315
EIRP(dBm)	23.97	24.19	24.00	23.95	24.31	24.06	24.36	24.43	24.11
EIRP(Watts)	0.2495	0.2624	0.2512	0.2483	0.2698	0.2547	0.2729	0.2773	0.2576

LTE Band 7 (G_T - L_C = 2.92 dB) 16QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	20.29	20.59	20.27
Conducted Power (Watts)	0.1069	0.1146	0.1064
EIRP(dBm)	23.21	23.51	23.19
EIRP(Watts)	0.2094	0.2244	0.2084

LTE Band 7 (G_T - L_C = 2.92 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
Conducted Power (dBm)	20.28	20.53	20.29	20.36	20.59	20.42	20.50	20.65	20.47
Conducted Power (Watts)	0.1067	0.1130	0.1069	0.1086	0.1146	0.1102	0.1122	0.1161	0.1114
EIRP(dBm)	23.20	23.45	23.21	23.28	23.51	23.34	23.42	23.57	23.39
EIRP(Watts)	0.2089	0.2213	0.2094	0.2128	0.2244	0.2158	0.2198	0.2275	0.2183

LTE Band 7 (G_T - L_C = 2.92 dB) 64QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	20.02	20.38	20.09
Conducted Power (Watts)	0.1005	0.1091	0.1021
EIRP(dBm)	22.94	23.30	23.01
EIRP(Watts)	0.1968	0.2138	0.2000

LTE Band 7 (G_T - L_C = 2.92 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
Conducted Power (dBm)	20.25	20.45	20.22	21.44	21.51	21.19	20.40	20.49	20.28
Conducted Power (Watts)	0.1059	0.1109	0.1052	0.1393	0.1416	0.1315	0.1096	0.1119	0.1067
EIRP(dBm)	23.17	23.37	23.14	24.36	24.43	24.11	23.32	23.41	23.20
EIRP(Watts)	0.2075	0.2173	0.2061	0.2729	0.2773	0.2576	0.2148	0.2193	0.2089

LTE Band 12 (G_T - L_C = 1.02 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)	21.25	21.13	21.31	21.46	21.35	21.46	21.15	21.13	21.28
Conducted Power (Watts)	0.1334	0.1297	0.1352	0.1400	0.1365	0.1400	0.1303	0.1297	0.1343
ERP(dBm)	20.12	20.00	20.18	20.33	20.22	20.33	20.02	20.00	20.15
ERP(Watts)	0.1028	0.1000	0.1042	0.1079	0.1052	0.1079	0.1005	0.1000	0.1035

LTE Band 12 (G_T - L_C = 1.02 dB) QPSK			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	21.24	21.13	21.09
Conducted Power (Watts)	0.1330	0.1297	0.1285
ERP(dBm)	20.11	20.00	19.96
ERP(Watts)	0.1026	0.1000	0.0991

LTE Band 12 (G_T - L_C = 1.02 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)	20.51	20.35	20.53	20.73	20.64	20.72	20.41	20.46	20.57
Conducted Power (Watts)	0.1125	0.1084	0.1130	0.1183	0.1159	0.1180	0.1099	0.1112	0.1140
ERP(dBm)	19.38	19.22	19.40	19.60	19.51	19.59	19.28	19.33	19.44
ERP(Watts)	0.0867	0.0836	0.0871	0.0912	0.0893	0.0910	0.0847	0.0857	0.0879

LTE Band 12 (G_T - L_C = 1.02 dB) 16QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	20.51	20.42	20.28
Conducted Power (Watts)	0.1125	0.1102	0.1067
ERP(dBm)	19.38	19.29	19.15
ERP(Watts)	0.0867	0.0849	0.0822

LTE Band 12 (G_T - L_C = 1.02 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)	20.35	20.31	20.39	20.50	20.27	20.47	20.39	20.25	20.34
Conducted Power (Watts)	0.1084	0.1074	0.1094	0.1122	0.1064	0.1114	0.1094	0.1059	0.1081
ERP(dBm)	19.22	19.18	19.26	19.37	19.14	19.34	19.26	19.12	19.21
ERP(Watts)	0.0836	0.0828	0.0843	0.0865	0.0820	0.0859	0.0843	0.0817	0.0834

LTE Band 12 (G_T - L_C = 1.02 dB) 64QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	20.47	20.19	20.22
Conducted Power (Watts)	0.1114	0.1045	0.1052
ERP(dBm)	19.34	19.06	19.09
ERP(Watts)	0.0859	0.0805	0.0811

LTE Band 13 (G_T - L_C = 0.83 dB) QPSK						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency (MHz)	779.5	782	784.5	-	782	-
Conducted Power (dBm)	21.51	21.57	21.55	-	21.69	-
Conducted Power (Watts)	0.1416	0.1435	0.1429	-	0.1476	-
ERP(dBm)	20.19	20.25	20.23	-	20.37	-
ERP(Watts)	0.1045	0.1059	0.1054	-	0.1089	-

LTE Band 13 (G_T - L_C = 0.83 dB) 16QAM						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency (MHz)	779.5	782	784.5	-	782	-
Conducted Power (dBm)	20.77	20.82	20.86	-	20.89	-
Conducted Power (Watts)	0.1194	0.1208	0.1219	-	0.1227	-
ERP(dBm)	19.45	19.50	19.54	-	19.57	-
ERP(Watts)	0.0881	0.0891	0.0899	-	0.0906	-

LTE Band 13 (G_T - L_C = 0.83 dB) 64QAM						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency (MHz)	779.5	782	784.5	-	782	-
Conducted Power (dBm)	20.62	20.79	20.68	-	20.73	-
Conducted Power (Watts)	0.1153	0.1199	0.1169	-	0.1183	-
ERP(dBm)	19.30	19.47	19.36	-	19.41	-
ERP(Watts)	0.0851	0.0885	0.0863	-	0.0873	-

LTE Band 25 (G_T - L_C = 2.06 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	26407	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
Conducted Power (dBm)	20.73	21.09	21.01	20.81	21.18	21.11	20.79	21.13	21.06
Conducted Power (Watts)	0.1183	0.1285	0.1262	0.1205	0.1312	0.1291	0.1199	0.1297	0.1276
EIRP(dBm)	22.79	23.15	23.07	22.87	23.24	23.17	22.85	23.19	23.12
EIRP(Watts)	0.1901	0.2065	0.2028	0.1936	0.2109	0.2075	0.1928	0.2084	0.2051

LTE Band 25 (G_T - L_C = 2.06 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
Conducted Power (dBm)	20.85	21.17	21.02	20.94	21.15	21.07	20.95	21.16	21.10
Conducted Power (Watts)	0.1216	0.1309	0.1265	0.1242	0.1303	0.1279	0.1245	0.1306	0.1288
EIRP(dBm)	22.91	23.23	23.08	23.00	23.21	23.13	23.01	23.22	23.16
EIRP(Watts)	0.1954	0.2104	0.2032	0.1995	0.2094	0.2056	0.2000	0.2099	0.2070

LTE Band 25 (G_T - L_C = 2.06 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	26407	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
Conducted Power (dBm)	19.87	20.38	20.27	20.18	20.46	20.42	20.06	20.44	20.38
Conducted Power (Watts)	0.0971	0.1091	0.1064	0.1042	0.1112	0.1102	0.1014	0.1107	0.1091
EIRP(dBm)	21.93	22.44	22.33	22.24	22.52	22.48	22.12	22.50	22.44
EIRP(Watts)	0.1560	0.1754	0.1710	0.1675	0.1786	0.1770	0.1629	0.1778	0.1754

LTE Band 25 (G_T - L_C = 2.06 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
Conducted Power (dBm)	20.10	20.50	20.30	20.16	20.49	20.38	20.32	20.48	20.48
Conducted Power (Watts)	0.1023	0.1122	0.1072	0.1038	0.1119	0.1091	0.1076	0.1117	0.1117
EIRP(dBm)	22.16	22.56	22.36	22.22	22.55	22.44	22.38	22.54	22.54
EIRP(Watts)	0.1644	0.1803	0.1722	0.1667	0.1799	0.1754	0.1730	0.1795	0.1795

LTE Band 25 (G_T - L_C = 2.06 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	26407	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
Conducted Power (dBm)	19.85	20.23	20.19	19.97	20.33	20.17	19.84	20.34	20.24
Conducted Power (Watts)	0.0966	0.1054	0.1045	0.0993	0.1079	0.1040	0.0964	0.1081	0.1057
EIRP(dBm)	21.91	22.29	22.25	22.03	22.39	22.23	21.90	22.40	22.30
EIRP(Watts)	0.1552	0.1694	0.1679	0.1596	0.1734	0.1671	0.1549	0.1738	0.1698

LTE Band 25 (G_T - L_C = 2.06 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
Conducted Power (dBm)	20.02	20.31	20.15	19.91	20.34	20.18	20.12	20.21	20.27
Conducted Power (Watts)	0.1005	0.1074	0.1035	0.0979	0.1081	0.1042	0.1028	0.1050	0.1064
EIRP(dBm)	22.08	22.37	22.21	21.97	22.40	22.24	22.18	22.27	22.33
EIRP(Watts)	0.1614	0.1726	0.1663	0.1574	0.1738	0.1675	0.1652	0.1687	0.1710

LTE Band 26 (G_T - L_C = 1.02 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 (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	21.70	21.75	21.62	21.90	21.84	21.75	21.87	21.77	21.74
Conducted Power (Watts)	0.1479	0.1496	0.1452	0.1549	0.1528	0.1496	0.1538	0.1503	0.1493
ERP(dBm)	20.57	20.62	20.49	20.77	20.71	20.62	20.74	20.64	20.61
ERP(Watts)	0.1140	0.1153	0.1119	0.1194	0.1178	0.1153	0.1186	0.1159	0.1151

LTE Band 26 (G_T - L_C = 1.02 dB) QPSK							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency (MHz)	829	836.5	844	831.5	836.5	841.5	821.5
Conducted Power (dBm)	21.97	21.91	21.81	21.87	21.97	21.96	21.98
Conducted Power (Watts)	0.1574	0.1552	0.1517	0.1538	0.1574	0.1570	0.1578
ERP(dBm)	20.84	20.78	20.68	20.74	20.84	20.83	20.85
ERP(Watts)	0.1213	0.1197	0.1169	0.1186	0.1213	0.1211	0.1216

LTE Band 26 (G_T - L_C = 1.02 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 (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	20.92	21.01	20.85	21.04	21.25	20.98	20.98	21.20	20.95
Conducted Power (Watts)	0.1236	0.1262	0.1216	0.1271	0.1334	0.1253	0.1253	0.1318	0.1245
ERP(dBm)	19.79	19.88	19.72	19.91	20.12	19.85	19.85	20.07	19.82
ERP(Watts)	0.0953	0.0973	0.0938	0.0979	0.1028	0.0966	0.0966	0.1016	0.0959

LTE Band 26 (G_T - L_C = 1.02 dB) 16QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency (MHz)	829	836.5	844	831.5	836.5	841.5	821.5
Conducted Power (dBm)	21.19	21.18	20.97	21.05	21.23	21.10	21.26
Conducted Power (Watts)	0.1315	0.1312	0.1250	0.1274	0.1327	0.1288	0.1337
ERP(dBm)	20.06	20.05	19.84	19.92	20.10	19.97	20.13
ERP(Watts)	0.1014	0.1012	0.0964	0.0982	0.1023	0.0993	0.1030

LTE Band 26 (G_T - L_C = 1.02 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 (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	20.86	20.91	20.76	20.94	21.09	20.83	20.90	21.09	20.83
Conducted Power (Watts)	0.1219	0.1233	0.1191	0.1242	0.1285	0.1211	0.1230	0.1285	0.1211
ERP(dBm)	19.73	19.78	19.63	19.81	19.96	19.70	19.77	19.96	19.70
ERP(Watts)	0.0940	0.0951	0.0918	0.0957	0.0991	0.0933	0.0948	0.0991	0.0933

LTE Band 26 (G_T - L_C = 1.02 dB) 64QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency (MHz)	829	836.5	844	831.5	836.5	841.5	821.5
Conducted Power (dBm)	21.12	21.10	20.83	20.89	20.99	21.07	20.99
Conducted Power (Watts)	0.1294	0.1288	0.1211	0.1227	0.1256	0.1279	0.1256
ERP(dBm)	19.99	19.97	19.70	19.76	19.86	19.94	19.86
ERP(Watts)	0.0998	0.0993	0.0933	0.0946	0.0968	0.0986	0.0968

LTE Band 66 (G_T - L_C = 2.33 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
Conducted Power (dBm)	20.67	20.59	20.60	20.72	20.75	20.58	20.65	20.61	20.56
Conducted Power (Watts)	0.1167	0.1146	0.1148	0.1180	0.1189	0.1143	0.1161	0.1151	0.1138
EIRP(dBm)	23.00	22.92	22.93	23.05	23.08	22.91	22.98	22.94	22.89
EIRP(Watts)	0.1995	0.1959	0.1963	0.2018	0.2032	0.1954	0.1986	0.1968	0.1945

LTE Band 66 (G_T - L_C = 2.33 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
Conducted Power (dBm)	20.74	20.64	20.63	20.82	20.73	20.73	21.18	20.79	20.76
Conducted Power (Watts)	0.1186	0.1159	0.1156	0.1208	0.1183	0.1183	0.1312	0.1199	0.1191
EIRP(dBm)	23.07	22.97	22.96	23.15	23.06	23.06	23.51	23.12	23.09
EIRP(Watts)	0.2028	0.1982	0.1977	0.2065	0.2023	0.2023	0.2244	0.2051	0.2037

LTE Band 66 (G_T - L_C = 2.33 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
Conducted Power (dBm)	19.81	19.91	19.72	19.86	19.90	19.79	19.83	19.80	19.77
Conducted Power (Watts)	0.0957	0.0979	0.0938	0.0968	0.0977	0.0953	0.0962	0.0955	0.0948
EIRP(dBm)	22.14	22.24	22.05	22.19	22.23	22.12	22.16	22.13	22.10
EIRP(Watts)	0.1637	0.1675	0.1603	0.1656	0.1671	0.1629	0.1644	0.1633	0.1622

LTE Band 66 (G_T - L_C = 2.33 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
Conducted Power (dBm)	19.89	19.82	19.75	19.98	19.95	19.90	20.00	19.97	19.97
Conducted Power (Watts)	0.0975	0.0959	0.0944	0.0995	0.0989	0.0977	0.1000	0.0993	0.0993
EIRP(dBm)	22.22	22.15	22.08	22.31	22.28	22.23	22.33	22.30	22.30
EIRP(Watts)	0.1667	0.1641	0.1614	0.1702	0.1690	0.1671	0.1710	0.1698	0.1698

LTE Band 66 (G_T - L_C = 2.33 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
Conducted Power (dBm)	18.71	18.68	18.58	19.74	19.62	19.65	19.74	19.60	19.54
Conducted Power (Watts)	0.0743	0.0738	0.0721	0.0942	0.0916	0.0923	0.0942	0.0912	0.0899
EIRP(dBm)	21.04	21.01	20.91	22.07	21.95	21.98	22.07	21.93	21.87
EIRP(Watts)	0.1271	0.1262	0.1233	0.1611	0.1567	0.1578	0.1611	0.1560	0.1538

LTE Band 66 (G_T - L_C = 2.33 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
Conducted Power (dBm)	19.72	19.64	19.61	19.87	19.73	19.71	19.92	19.81	19.78
Conducted Power (Watts)	0.0938	0.0920	0.0914	0.0971	0.0940	0.0935	0.0982	0.0957	0.0951
EIRP(dBm)	22.05	21.97	21.94	22.20	22.06	22.04	22.25	22.14	22.11
EIRP(Watts)	0.1603	0.1574	0.1563	0.1660	0.1607	0.1600	0.1679	0.1637	0.1626

<WWAN External Antenna>

LTE Band 2 (G_T - L_C = 2.77 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 (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	20.76	21.05	21.02	20.90	21.25	21.14	20.79	21.03	21.07
Conducted Power (Watts)	0.1191	0.1274	0.1265	0.1230	0.1334	0.1300	0.1199	0.1268	0.1279
EIRP(dBm)	23.53	23.82	23.79	23.67	24.02	23.91	23.56	23.80	23.84
EIRP(Watts)	0.2254	0.2410	0.2393	0.2328	0.2523	0.2460	0.2270	0.2399	0.2421

LTE Band 2 (G_T - L_C = 2.77 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 (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	20.86	21.04	21.10	21.05	21.24	21.21	21.09	21.27	21.19
Conducted Power (Watts)	0.1219	0.1271	0.1288	0.1274	0.1330	0.1321	0.1285	0.1340	0.1315
EIRP(dBm)	23.63	23.81	23.87	23.82	24.01	23.98	23.86	24.04	23.96
EIRP(Watts)	0.2307	0.2404	0.2438	0.2410	0.2518	0.2500	0.2432	0.2535	0.2489

LTE Band 2 (G_T - L_C = 2.77 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 (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	20.09	20.35	20.37	20.25	20.41	20.50	20.03	20.25	20.39
Conducted Power (Watts)	0.1021	0.1084	0.1089	0.1059	0.1099	0.1122	0.1007	0.1059	0.1094
EIRP(dBm)	22.86	23.12	23.14	23.02	23.18	23.27	22.80	23.02	23.16
EIRP(Watts)	0.1932	0.2051	0.2061	0.2004	0.2080	0.2123	0.1905	0.2004	0.2070

LTE Band 2 (G_T - L_C = 2.77 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 (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	20.13	20.31	20.46	20.34	20.49	20.48	20.42	20.50	20.55
Conducted Power (Watts)	0.1030	0.1074	0.1112	0.1081	0.1119	0.1117	0.1102	0.1122	0.1135
EIRP(dBm)	22.90	23.08	23.23	23.11	23.26	23.25	23.19	23.27	23.32
EIRP(Watts)	0.1950	0.2032	0.2104	0.2046	0.2118	0.2113	0.2084	0.2123	0.2148

LTE Band 2 (G_T - L_C = 2.77 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 (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	19.90	20.18	20.22	20.01	20.25	20.26	19.88	20.05	20.25
Conducted Power (Watts)	0.0977	0.1042	0.1052	0.1002	0.1059	0.1062	0.0973	0.1012	0.1059
EIRP(dBm)	22.67	22.95	22.99	22.78	23.02	23.03	22.65	22.82	23.02
EIRP(Watts)	0.1849	0.1972	0.1991	0.1897	0.2004	0.2009	0.1841	0.1914	0.2004

LTE Band 2 (G_T - L_C = 2.77 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 (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	19.79	20.22	20.30	20.11	20.34	20.32	20.17	20.40	20.36
Conducted Power (Watts)	0.0953	0.1052	0.1072	0.1026	0.1081	0.1076	0.1040	0.1096	0.1086
EIRP(dBm)	22.56	22.99	23.07	22.88	23.11	23.09	22.94	23.17	23.13
EIRP(Watts)	0.1803	0.1991	0.2028	0.1941	0.2046	0.2037	0.1968	0.2075	0.2056

LTE Band 4 (G_T - L_C = 2.67 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 (MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	20.96	20.78	20.89	21.05	20.88	20.99	21.05	20.86	20.95
Conducted Power (Watts)	0.1247	0.1197	0.1227	0.1274	0.1225	0.1256	0.1274	0.1219	0.1245
EIRP(dBm)	23.63	23.45	23.56	23.72	23.55	23.66	23.72	23.53	23.62
EIRP(Watts)	0.2307	0.2213	0.2270	0.2355	0.2265	0.2323	0.2355	0.2254	0.2301

LTE Band 4 (G_T - L_C = 2.67 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 (MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
Conducted Power (dBm)	21.11	20.92	21.04	21.09	21.01	21.12	21.13	21.02	21.17
Conducted Power (Watts)	0.1291	0.1236	0.1271	0.1285	0.1262	0.1294	0.1297	0.1265	0.1309
EIRP(dBm)	23.78	23.59	23.71	23.76	23.68	23.79	23.80	23.69	23.84
EIRP(Watts)	0.2388	0.2286	0.2350	0.2377	0.2333	0.2393	0.2399	0.2339	0.2421

LTE Band 4 (G_T - L_C = 2.67 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 (MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	20.28	20.02	20.19	20.38	20.18	20.26	20.35	20.16	20.26
Conducted Power (Watts)	0.1067	0.1005	0.1045	0.1091	0.1042	0.1062	0.1084	0.1038	0.1062
EIRP(dBm)	22.95	22.69	22.86	23.05	22.85	22.93	23.02	22.83	22.93
EIRP(Watts)	0.1972	0.1858	0.1932	0.2018	0.1928	0.1963	0.2004	0.1919	0.1963

LTE Band 4 (G_T - L_C = 2.67 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 (MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
Conducted Power (dBm)	20.39	20.26	20.34	20.44	20.35	20.41	20.41	20.35	20.48
Conducted Power (Watts)	0.1094	0.1062	0.1081	0.1107	0.1084	0.1099	0.1099	0.1084	0.1117
EIRP(dBm)	23.06	22.93	23.01	23.11	23.02	23.08	23.08	23.02	23.15
EIRP(Watts)	0.2023	0.1963	0.2000	0.2046	0.2004	0.2032	0.2032	0.2004	0.2065

LTE Band 4 (G_T - L_C = 2.67 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 (MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	20.08	19.89	19.98	20.20	19.98	20.08	20.16	20.04	20.10
Conducted Power (Watts)	0.1019	0.0975	0.0995	0.1047	0.0995	0.1019	0.1038	0.1009	0.1023
EIRP(dBm)	22.75	22.56	22.65	22.87	22.65	22.75	22.83	22.71	22.77
EIRP(Watts)	0.1884	0.1803	0.1841	0.1936	0.1841	0.1884	0.1919	0.1866	0.1892

LTE Band 4 (G_T - L_C = 2.67 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 (MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
Conducted Power (dBm)	20.25	20.05	20.14	20.25	20.15	20.29	20.27	20.24	20.32
Conducted Power (Watts)	0.1059	0.1012	0.1033	0.1059	0.1035	0.1069	0.1064	0.1057	0.1076
EIRP(dBm)	22.92	22.72	22.81	22.92	22.82	22.96	22.94	22.91	22.99
EIRP(Watts)	0.1959	0.1871	0.1910	0.1959	0.1914	0.1977	0.1968	0.1954	0.1991

LTE Band 5 (G_T - L_C = 1.82 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	21.71	21.60	21.54	21.77	21.74	21.61	21.75	21.70	21.59
Conducted Power (Watts)	0.1483	0.1445	0.1426	0.1503	0.1493	0.1449	0.1496	0.1479	0.1442
ERP(dBm)	21.38	21.27	21.21	21.44	21.41	21.28	21.42	21.37	21.26
ERP(Watts)	0.1374	0.1340	0.1321	0.1393	0.1384	0.1343	0.1387	0.1371	0.1337

LTE Band 5 (G_T - L_C = 1.82 dB) QPSK			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency (MHz)	829	836.5	844
Conducted Power (dBm)	21.54	21.69	21.78
Conducted Power (Watts)	0.1426	0.1476	0.1507
ERP(dBm)	21.21	21.36	21.45
ERP(Watts)	0.1321	0.1368	0.1396

LTE Band 5 (G_T - L_C =1.82 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	20.85	20.86	20.77	20.96	20.98	20.98	20.98	20.81	20.79
Conducted Power (Watts)	0.1216	0.1219	0.1194	0.1247	0.1253	0.1253	0.1253	0.1205	0.1199
ERP(dBm)	20.52	20.53	20.44	20.63	20.65	20.65	20.65	20.48	20.46
ERP(Watts)	0.1127	0.1130	0.1107	0.1156	0.1161	0.1161	0.1161	0.1117	0.1112

LTE Band 5 (G_T - L_C = 1.82 dB) 16QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency (MHz)	829	836.5	844
Conducted Power (dBm)	20.81	20.94	20.83
Conducted Power (Watts)	0.1205	0.1242	0.1211
ERP(dBm)	20.48	20.61	20.50
ERP(Watts)	0.1117	0.1151	0.1122

LTE Band 5 (G_T - L_C = 1.82 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	20.74	20.75	20.65	20.84	20.92	20.75	20.84	20.86	20.64
Conducted Power (Watts)	0.1186	0.1189	0.1161	0.1213	0.1236	0.1189	0.1213	0.1219	0.1159
ERP(dBm)	20.41	20.42	20.32	20.51	20.59	20.42	20.51	20.53	20.31
ERP(Watts)	0.1099	0.1102	0.1076	0.1125	0.1146	0.1102	0.1125	0.1130	0.1074

LTE Band 5 (G_T - L_C = 1.82 dB) 64QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency (MHz)	829	836.5	844
Conducted Power (dBm)	20.66	20.81	20.84
Conducted Power (Watts)	0.1164	0.1205	0.1213
ERP(dBm)	20.33	20.48	20.51
ERP(Watts)	0.1079	0.1117	0.1125

LTE Band 7 (G_T - L_C = 2.58 dB) QPSK			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	20.92	21.21	20.97
Conducted Power (Watts)	0.1236	0.1321	0.1250
EIRP(dBm)	23.50	23.79	23.55
EIRP(Watts)	0.2239	0.2393	0.2265

LTE Band 7 (G_T - L_C = 2.58 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
Conducted Power (dBm)	21.05	21.27	21.08	21.03	21.39	21.14	21.44	21.51	21.19
Conducted Power (Watts)	0.1274	0.1340	0.1282	0.1268	0.1377	0.1300	0.1393	0.1416	0.1315
EIRP(dBm)	23.63	23.85	23.66	23.61	23.97	23.72	24.02	24.09	23.77
EIRP(Watts)	0.2307	0.2427	0.2323	0.2296	0.2495	0.2355	0.2523	0.2564	0.2382

LTE Band 7 (G_T - L_C = 2.58 dB) 16QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	20.29	20.59	20.27
Conducted Power (Watts)	0.1069	0.1146	0.1064
EIRP(dBm)	22.87	23.17	22.85
EIRP(Watts)	0.1936	0.2075	0.1928

LTE Band 7 (G_T - L_C = 2.58 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
Conducted Power (dBm)	20.28	20.53	20.29	20.36	20.59	20.42	20.50	20.65	20.47
Conducted Power (Watts)	0.1067	0.1130	0.1069	0.1086	0.1146	0.1102	0.1122	0.1161	0.1114
EIRP(dBm)	22.86	23.11	22.87	22.94	23.17	23.00	23.08	23.23	23.05
EIRP(Watts)	0.1932	0.2046	0.1936	0.1968	0.2075	0.1995	0.2032	0.2104	0.2018

LTE Band 7 (G_T - L_C = 2.58 dB) 64QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	20.02	20.38	20.09
Conducted Power (Watts)	0.1005	0.1091	0.1021
EIRP(dBm)	22.60	22.96	22.67
EIRP(Watts)	0.1820	0.1977	0.1849

LTE Band 7 (G_T - L_C = 2.58 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
Conducted Power (dBm)	20.25	20.45	20.22	21.44	21.51	21.19	20.40	20.49	20.28
Conducted Power (Watts)	0.1059	0.1109	0.1052	0.1393	0.1416	0.1315	0.1096	0.1119	0.1067
EIRP(dBm)	22.83	23.03	22.80	24.02	24.09	23.77	22.98	23.07	22.86
EIRP(Watts)	0.1919	0.2009	0.1905	0.2523	0.2564	0.2382	0.1986	0.2028	0.1932

LTE Band 12 (G_T - L_C = 1.16 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)	21.25	21.13	21.31	21.46	21.35	21.46	21.15	21.13	21.28
Conducted Power (Watts)	0.1334	0.1297	0.1352	0.1400	0.1365	0.1400	0.1303	0.1297	0.1343
ERP(dBm)	20.26	20.14	20.32	20.47	20.36	20.47	20.16	20.14	20.29
ERP(Watts)	0.1062	0.1033	0.1076	0.1114	0.1086	0.1114	0.1038	0.1033	0.1069

LTE Band 12 (G_T - L_C = 1.16 dB) QPSK			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	21.24	21.13	21.09
Conducted Power (Watts)	0.1330	0.1297	0.1285
ERP(dBm)	20.25	20.14	20.10
ERP(Watts)	0.1059	0.1033	0.1023

LTE Band 12 (G_T - L_C = 1.16 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)	20.51	20.35	20.53	20.73	20.64	20.72	20.41	20.46	20.57
Conducted Power (Watts)	0.1125	0.1084	0.1130	0.1183	0.1159	0.1180	0.1099	0.1112	0.1140
ERP(dBm)	19.52	19.36	19.54	19.74	19.65	19.73	19.42	19.47	19.58
ERP(Watts)	0.0895	0.0863	0.0899	0.0942	0.0923	0.0940	0.0875	0.0885	0.0908

LTE Band 12 (G_T - L_C = 1.16 dB) 16QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	20.51	20.42	20.28
Conducted Power (Watts)	0.1125	0.1102	0.1067
ERP(dBm)	19.52	19.43	19.29
ERP(Watts)	0.0895	0.0877	0.0849

LTE Band 12 (G_T - L_C = 1.16 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)	20.35	20.31	20.39	20.50	20.27	20.47	20.39	20.25	20.34
Conducted Power (Watts)	0.1084	0.1074	0.1094	0.1122	0.1064	0.1114	0.1094	0.1059	0.1081
ERP(dBm)	19.36	19.32	19.40	19.51	19.28	19.48	19.40	19.26	19.35
ERP(Watts)	0.0863	0.0855	0.0871	0.0904	0.0847	0.0887	0.0871	0.0843	0.0861

LTE Band 12 (G_T - L_C = 1.16 dB) 64QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	20.47	20.19	20.22
Conducted Power (Watts)	0.1114	0.1045	0.1052
ERP(dBm)	19.48	19.20	19.23
ERP(Watts)	0.0887	0.0832	0.0838

LTE Band 13 (G_T - L_C = 0.67 dB) QPSK						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency (MHz)	779.5	782	784.5	-	782	-
Conducted Power (dBm)	21.51	21.57	21.55	-	21.69	-
Conducted Power (Watts)	0.1416	0.1435	0.1429	-	0.1476	-
ERP(dBm)	20.03	20.09	20.07	-	20.21	-
ERP(Watts)	0.1007	0.1021	0.1016	-	0.1050	-

LTE Band 13 (G_T - L_C = 0.67 dB) 16QAM						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency (MHz)	779.5	782	784.5	-	782	-
Conducted Power (dBm)	20.77	20.82	20.86	-	20.89	-
Conducted Power (Watts)	0.1194	0.1208	0.1219	-	0.1227	-
ERP(dBm)	19.29	19.34	19.38	-	19.41	-
ERP(Watts)	0.0849	0.0859	0.0867	-	0.0873	-

LTE Band 13 (G_T - L_C = 0.67 dB) 64QAM						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency (MHz)	779.5	782	784.5	-	782	-
Conducted Power (dBm)	20.62	20.79	20.68	-	20.73	-
Conducted Power (Watts)	0.1153	0.1199	0.1169	-	0.1183	-
ERP(dBm)	19.14	19.31	19.20	-	19.25	-
ERP(Watts)	0.0820	0.0853	0.0832	-	0.0841	-

LTE Band 25 (G_T - L_C = 2.77 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	26407	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
Conducted Power (dBm)	20.73	21.09	21.01	20.81	21.18	21.11	20.79	21.13	21.06
Conducted Power (Watts)	0.1183	0.1285	0.1262	0.1205	0.1312	0.1291	0.1199	0.1297	0.1276
EIRP(dBm)	23.50	23.86	23.78	23.58	23.95	23.88	23.56	23.90	23.83
EIRP(Watts)	0.2239	0.2432	0.2388	0.2280	0.2483	0.2443	0.2270	0.2455	0.2415

LTE Band 25 (G_T - L_C = 2.77 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
Conducted Power (dBm)	20.85	21.17	21.02	20.94	21.15	21.07	20.95	21.16	21.10
Conducted Power (Watts)	0.1216	0.1309	0.1265	0.1242	0.1303	0.1279	0.1245	0.1306	0.1288
EIRP(dBm)	23.62	23.94	23.79	23.71	23.92	23.84	23.72	23.93	23.87
EIRP(Watts)	0.2301	0.2477	0.2393	0.2350	0.2466	0.2421	0.2355	0.2472	0.2438

LTE Band 25 (G_T - L_C = 2.77 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	26407	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
Conducted Power (dBm)	19.87	20.38	20.27	20.18	20.46	20.42	20.06	20.44	20.38
Conducted Power (Watts)	0.0971	0.1091	0.1064	0.1042	0.1112	0.1102	0.1014	0.1107	0.1091
EIRP(dBm)	22.64	23.15	23.04	22.95	23.23	23.19	22.83	23.21	23.15
EIRP(Watts)	0.1837	0.2065	0.2014	0.1972	0.2104	0.2084	0.1919	0.2094	0.2065

LTE Band 25 (G_T - L_C = 2.77 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
Conducted Power (dBm)	20.10	20.50	20.30	20.16	20.49	20.38	20.32	20.48	20.48
Conducted Power (Watts)	0.1023	0.1122	0.1072	0.1038	0.1119	0.1091	0.1076	0.1117	0.1117
EIRP(dBm)	22.87	23.27	23.07	22.93	23.26	23.15	23.09	23.25	23.25
EIRP(Watts)	0.1936	0.2123	0.2028	0.1963	0.2118	0.2065	0.2037	0.2113	0.2113

LTE Band 25 (G_T - L_C = 2.77 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	26407	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
Conducted Power (dBm)	19.85	20.23	20.19	19.97	20.33	20.17	19.84	20.34	20.24
Conducted Power (Watts)	0.0966	0.1054	0.1045	0.0993	0.1079	0.1040	0.0964	0.1081	0.1057
EIRP(dBm)	22.62	23.00	22.96	22.74	23.10	22.94	22.61	23.11	23.01
EIRP(Watts)	0.1828	0.1995	0.1977	0.1879	0.2042	0.1968	0.1824	0.2046	0.2000

LTE Band 25 (G_T - L_C = 2.77 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
Conducted Power (dBm)	20.02	20.31	20.15	19.91	20.34	20.18	20.12	20.21	20.27
Conducted Power (Watts)	0.1005	0.1074	0.1035	0.0979	0.1081	0.1042	0.1028	0.1050	0.1064
EIRP(dBm)	22.79	23.08	22.92	22.68	23.11	22.95	22.89	22.98	23.04
EIRP(Watts)	0.1901	0.2032	0.1959	0.1854	0.2046	0.1972	0.1945	0.1986	0.2014

LTE Band 26 (G_T - L_C = 1.82 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 (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	21.70	21.75	21.62	21.90	21.84	21.75	21.87	21.77	21.74
Conducted Power (Watts)	0.1479	0.1496	0.1452	0.1549	0.1528	0.1496	0.1538	0.1503	0.1493
ERP(dBm)	21.37	21.42	21.29	21.57	21.51	21.42	21.54	21.44	21.41
ERP(Watts)	0.1371	0.1387	0.1346	0.1435	0.1416	0.1387	0.1426	0.1393	0.1384

LTE Band 26 (G_T - L_C = 1.82 dB) QPSK							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency (MHz)	829	836.5	844	831.5	836.5	841.5	821.5
Conducted Power (dBm)	21.97	21.91	21.81	21.87	21.97	21.96	21.98
Conducted Power (Watts)	0.1574	0.1552	0.1517	0.1538	0.1574	0.1570	0.1578
ERP(dBm)	21.64	21.58	21.48	21.54	21.64	21.63	21.65
ERP(Watts)	0.1459	0.1439	0.1406	0.1426	0.1459	0.1455	0.1462

LTE Band 26 (G_T - L_C = 1.82 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 (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	20.92	21.01	20.85	21.04	21.25	20.98	20.98	21.20	20.95
Conducted Power (Watts)	0.1236	0.1262	0.1216	0.1271	0.1334	0.1253	0.1253	0.1318	0.1245
ERP(dBm)	20.59	20.68	20.52	20.71	20.92	20.65	20.65	20.87	20.62
ERP(Watts)	0.1146	0.1169	0.1127	0.1178	0.1236	0.1161	0.1161	0.1222	0.1153

LTE Band 26 (G_T - L_C = 1.82 dB) 16QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency (MHz)	829	836.5	844	831.5	836.5	841.5	821.5
Conducted Power (dBm)	21.19	21.18	20.97	21.05	21.23	21.10	21.26
Conducted Power (Watts)	0.1315	0.1312	0.1250	0.1274	0.1327	0.1288	0.1337
ERP(dBm)	20.86	20.85	20.64	20.72	20.90	20.77	20.93
ERP(Watts)	0.1219	0.1216	0.1159	0.1180	0.1230	0.1194	0.1239

LTE Band 26 (G_T - L_C = 1.82 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 (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	20.86	20.91	20.76	20.94	21.09	20.83	20.90	21.09	20.83
Conducted Power (Watts)	0.1219	0.1233	0.1191	0.1242	0.1285	0.1211	0.1230	0.1285	0.1211
ERP(dBm)	20.53	20.58	20.43	20.61	20.76	20.50	20.57	20.76	20.50
ERP(Watts)	0.1130	0.1143	0.1104	0.1151	0.1191	0.1122	0.1140	0.1191	0.1122

LTE Band 26 (G_T - L_C = 1.82 dB) 64QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency (MHz)	829	836.5	844	831.5	836.5	841.5	821.5
Conducted Power (dBm)	21.12	21.10	20.83	20.89	20.99	21.07	20.99
Conducted Power (Watts)	0.1294	0.1288	0.1211	0.1227	0.1256	0.1279	0.1256
ERP(dBm)	20.79	20.77	20.50	20.56	20.66	20.74	20.66
ERP(Watts)	0.1199	0.1194	0.1122	0.1138	0.1164	0.1186	0.1164

LTE Band 66 (G_T - L_C = 2.67 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
Conducted Power (dBm)	20.67	20.59	20.60	20.72	20.75	20.58	20.65	20.61	20.56
Conducted Power (Watts)	0.1167	0.1146	0.1148	0.1180	0.1189	0.1143	0.1161	0.1151	0.1138
EIRP(dBm)	23.34	23.26	23.27	23.39	23.42	23.25	23.32	23.28	23.23
EIRP(Watts)	0.2158	0.2118	0.2123	0.2183	0.2198	0.2113	0.2148	0.2128	0.2104

LTE Band 66 (G_T - L_C = 2.67 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
Conducted Power (dBm)	20.74	20.64	20.63	20.82	20.73	20.73	21.18	20.79	20.76
Conducted Power (Watts)	0.1186	0.1159	0.1156	0.1208	0.1183	0.1183	0.1312	0.1199	0.1191
EIRP(dBm)	23.41	23.31	23.30	23.49	23.40	23.40	23.85	23.46	23.43
EIRP(Watts)	0.2193	0.2143	0.2138	0.2234	0.2188	0.2188	0.2427	0.2218	0.2203

LTE Band 66 (G_T - L_C = 2.67 dB)) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
Conducted Power (dBm)	19.81	19.91	19.72	19.86	19.90	19.79	19.83	19.80	19.77
Conducted Power (Watts)	0.0957	0.0979	0.0938	0.0968	0.0977	0.0953	0.0962	0.0955	0.0948
EIRP(dBm)	22.48	22.58	22.39	22.53	22.57	22.46	22.50	22.47	22.44
EIRP(Watts)	0.1770	0.1811	0.1734	0.1791	0.1807	0.1762	0.1778	0.1766	0.1754

LTE Band 66 (G_T - L_C = 2.67 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
Conducted Power (dBm)	19.89	19.82	19.75	19.98	19.95	19.90	20.00	19.97	19.97
Conducted Power (Watts)	0.0975	0.0959	0.0944	0.0995	0.0989	0.0977	0.1000	0.0993	0.0993
EIRP(dBm)	22.56	22.49	22.42	22.65	22.62	22.57	22.67	22.64	22.64
EIRP(Watts)	0.1803	0.1774	0.1746	0.1841	0.1828	0.1807	0.1849	0.1837	0.1837

LTE Band 66 (G_T - L_C = 2.67 dB)) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
Conducted Power (dBm)	18.71	18.68	18.58	19.74	19.62	19.65	19.74	19.60	19.54
Conducted Power (Watts)	0.0743	0.0738	0.0721	0.0942	0.0916	0.0923	0.0942	0.0912	0.0899
EIRP(dBm)	21.38	21.35	21.25	22.41	22.29	22.32	22.41	22.27	22.21
EIRP(Watts)	0.1374	0.1365	0.1334	0.1742	0.1694	0.1706	0.1742	0.1687	0.1663

LTE Band 66 (G_T - L_C = 2.67 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
Conducted Power (dBm)	19.72	19.64	19.61	19.87	19.73	19.71	19.92	19.81	19.78
Conducted Power (Watts)	0.0938	0.0920	0.0914	0.0971	0.0940	0.0935	0.0982	0.0957	0.0951
EIRP(dBm)	22.39	22.31	22.28	22.54	22.40	22.38	22.59	22.48	22.45
EIRP(Watts)	0.1734	0.1702	0.1690	0.1795	0.1738	0.1730	0.1816	0.1770	0.1758

Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.43	5.07	4.96	5.88	PASS
Middle CH	4.26	4.78	5.19	5.68	
Highest CH	4.49	4.78	5.45	5.74	
RB Size	1RB	Full RB	Result		
Lowest CH	5.36	5.91	PASS		
Middle CH	5.16	5.71			
Highest CH	5.30	5.65			

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.86	4.70	4.58	5.68	PASS
Middle CH	3.94	4.78	4.75	5.68	
Highest CH	4.00	4.64	4.67	5.62	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	4.61	5.65	PASS		
Middle CH	4.78	5.62			
Highest CH	4.70	5.59			

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	3.77	4.55	4.61	5.51	
Highest CH	-	-	-	-	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH			PASS		
Middle CH	4.58	5.48			
Highest CH					

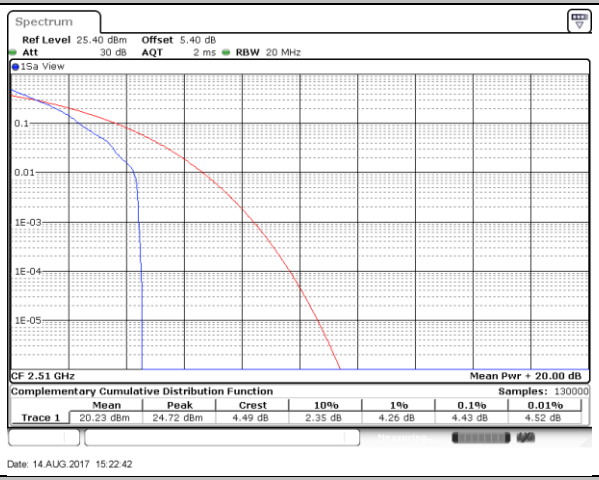
Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.61	5.01	5.45	5.91	PASS
Middle CH	4.41	5.10	5.13	6.00	
Highest CH	4.61	5.22	5.45	6.09	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.65	6.00	PASS		
Middle CH	5.13	5.88			
Highest CH	5.54	6.14			

Mode	LTE Band 26 / 15MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.42	4.55	4.03	5.36	PASS
Middle CH	3.54	4.52	4.12	5.42	
Highest CH	3.80	4.67	4.49	5.62	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	4.12	5.39	PASS		
Middle CH	4.35	5.45			
Highest CH	4.49	5.57			

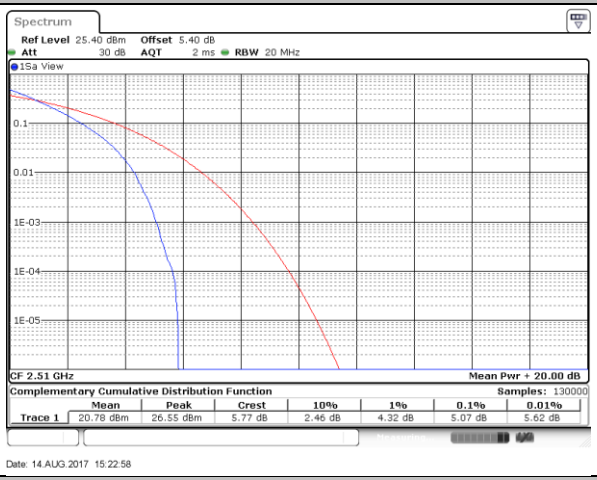
Mode	LTE Band 66 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.12	4.90	4.93	5.83	PASS
Middle CH	4.26	4.67	5.04	5.59	
Highest CH	4.32	4.72	5.13	5.65	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.97	6.29	PASS		
Middle CH	5.88	6.06			
Highest CH	5.91	6.12			

LTE Band 7 / 20MHz / QPSK

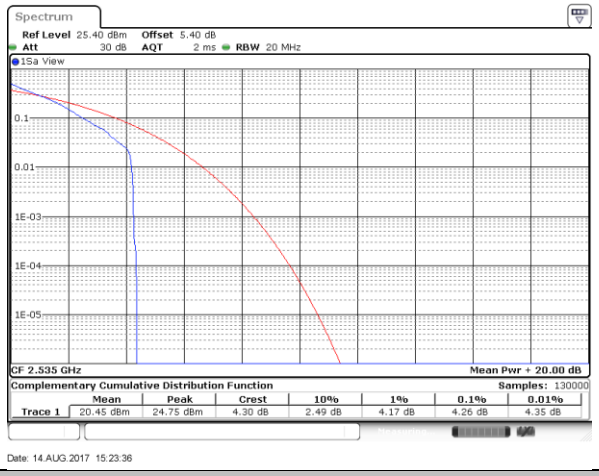
Lowest Channel / 1RB



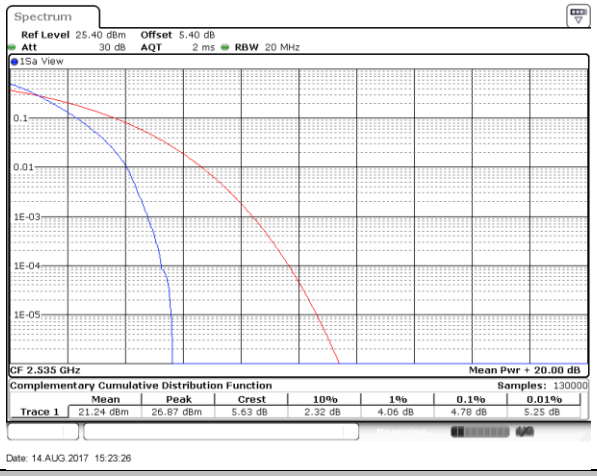
Lowest Channel / Full RB



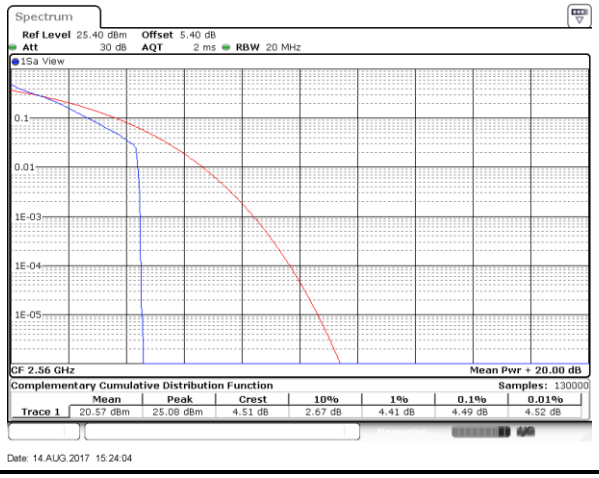
Middle Channel / 1RB



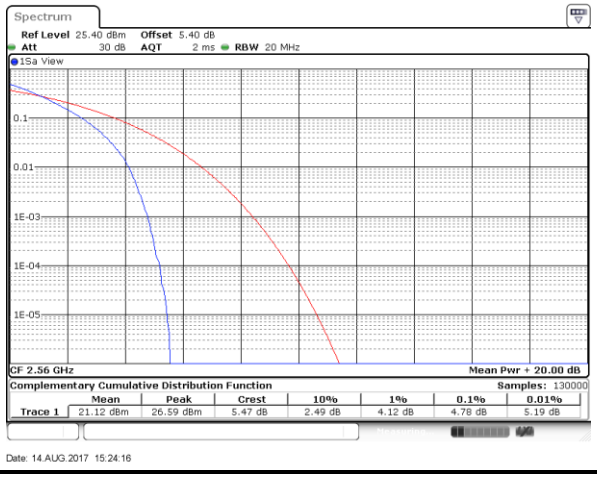
Middle Channel / Full RB



Highest Channel / 1RB

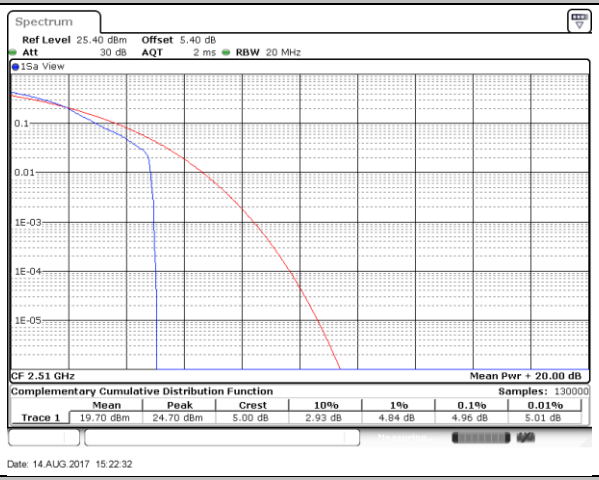


Highest Channel / Full RB

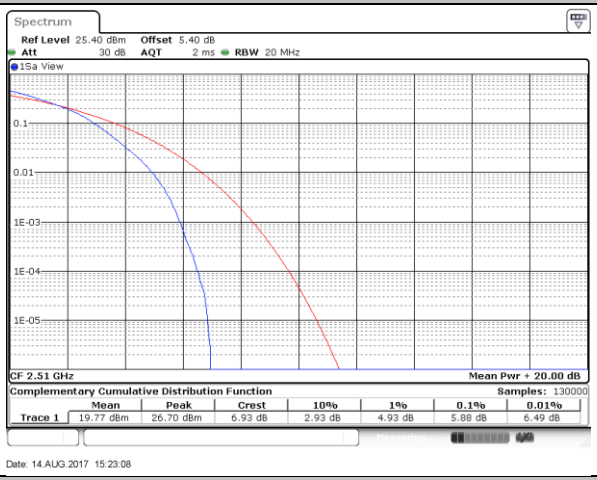


LTE Band 7 / 20MHz / 16QAM

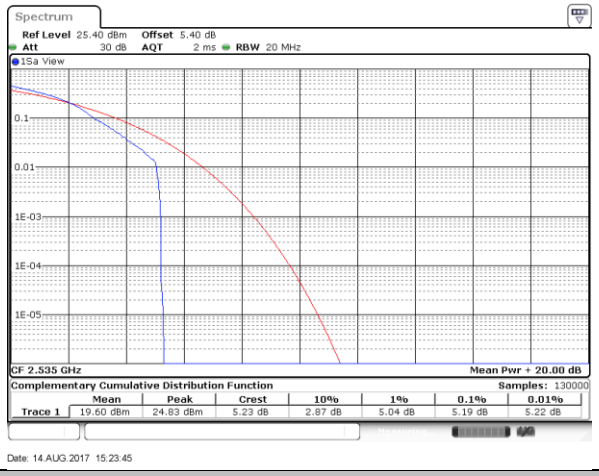
Lowest Channel / 1RB



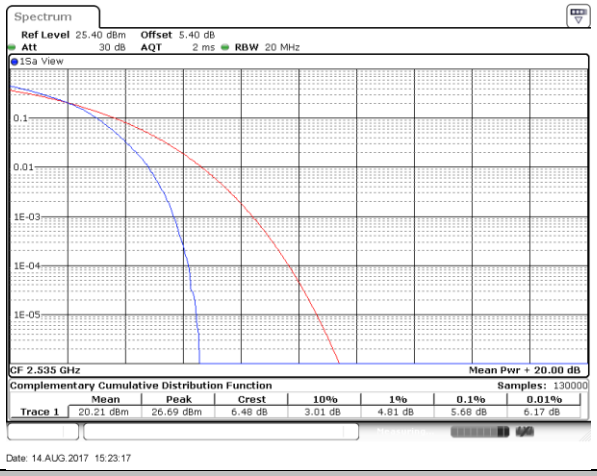
Lowest Channel / Full RB



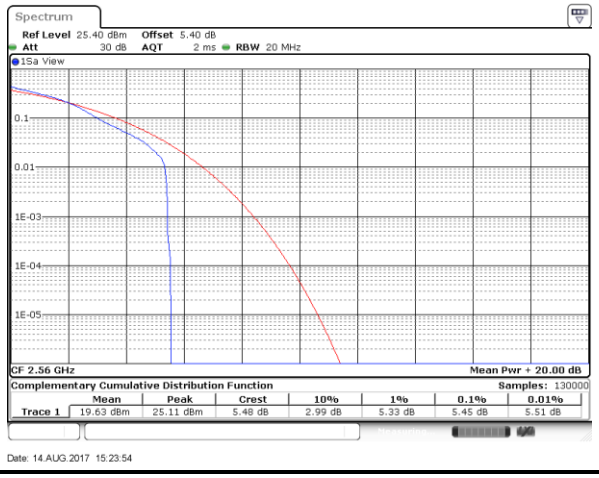
Middle Channel / 1RB



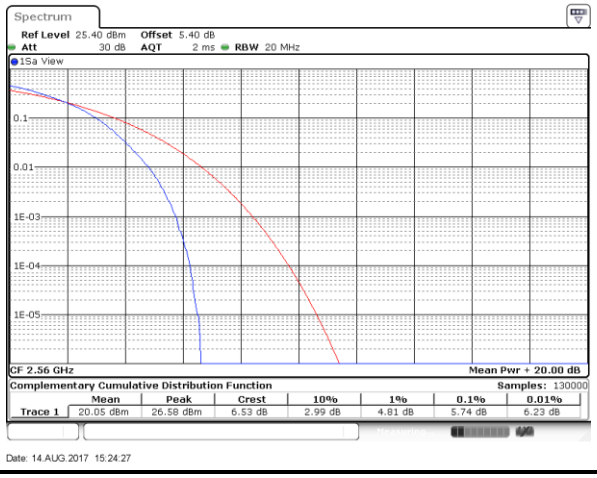
Middle Channel / Full RB



Highest Channel / 1RB

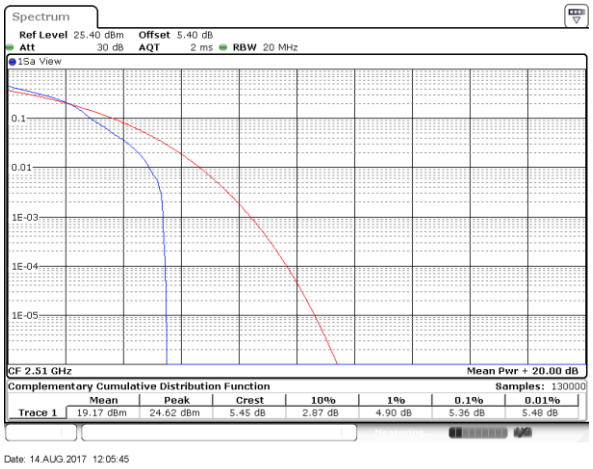


Highest Channel / Full RB

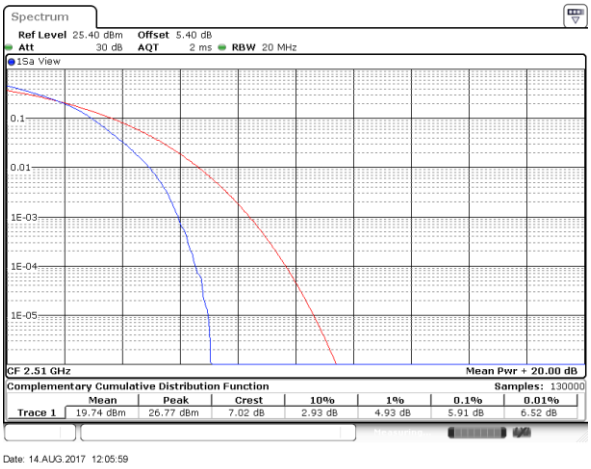


LTE Band 7 / 20MHz / 64QAM

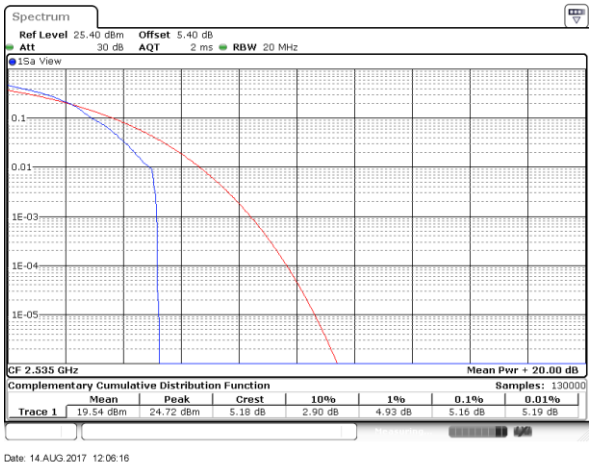
Lowest Channel / 1RB



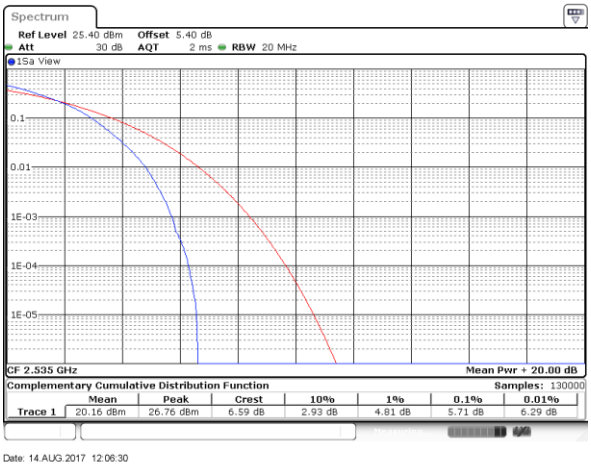
Lowest Channel / Full RB



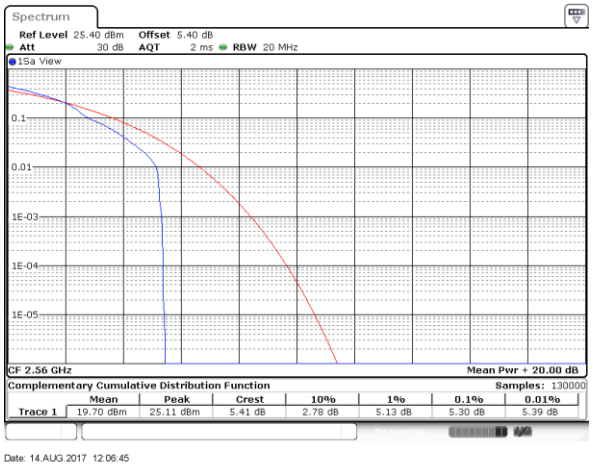
Middle Channel / 1RB



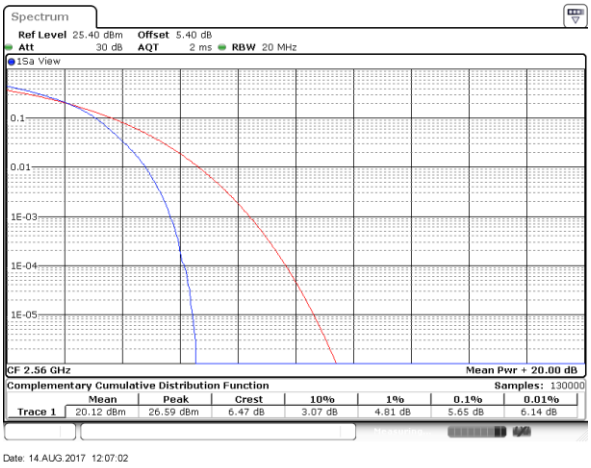
Middle Channel / Full RB



Highest Channel / 1RB

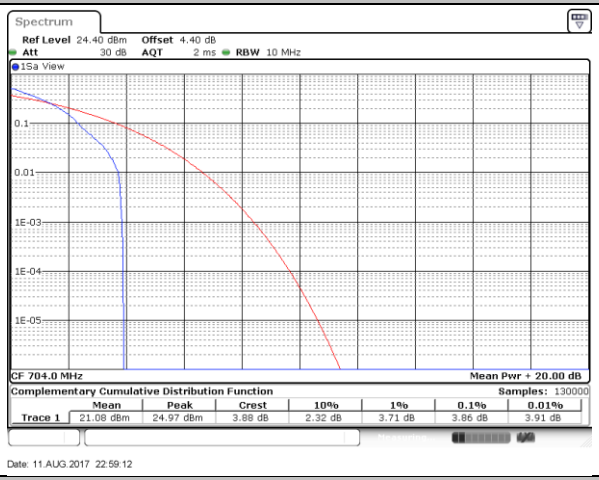


Highest Channel / Full RB

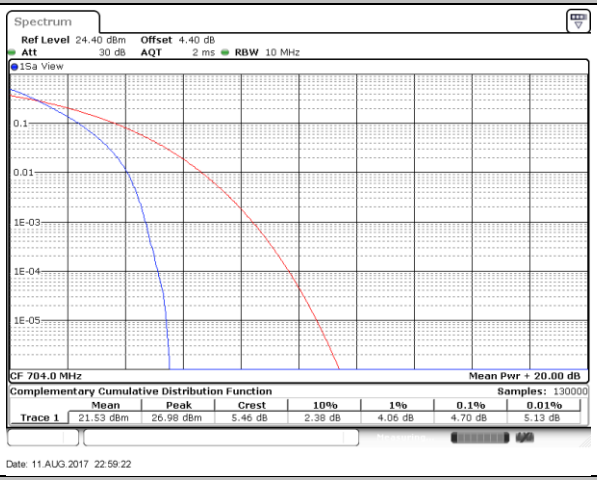


LTE Band 12 / 10MHz / QPSK

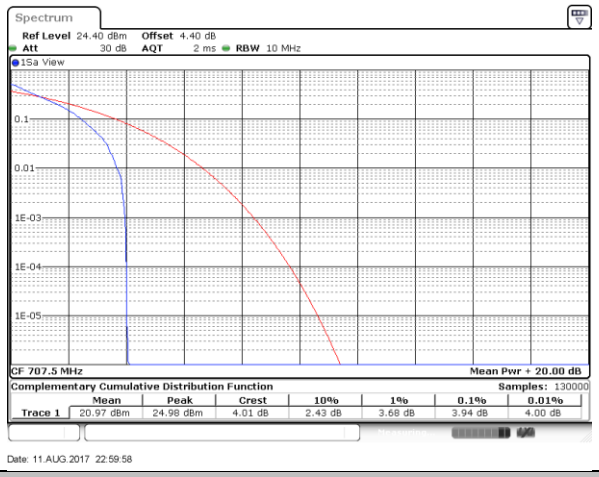
Lowest Channel / 1RB



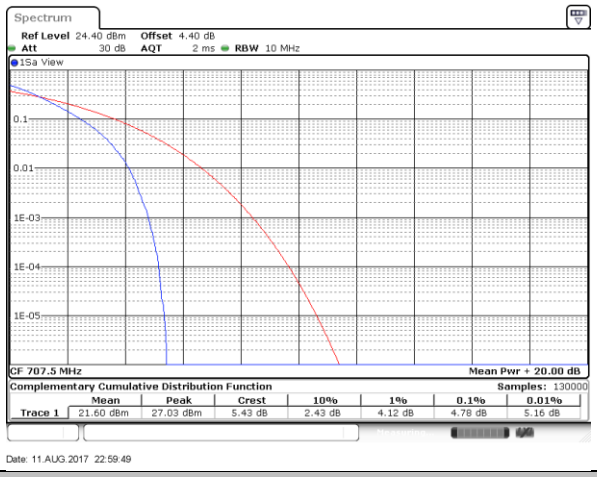
Lowest Channel / Full RB



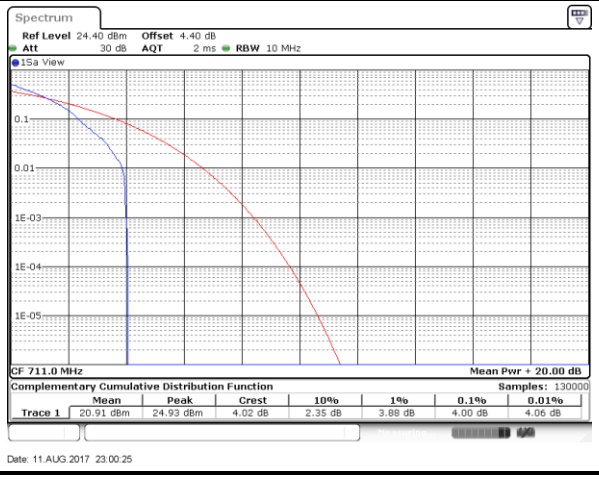
Middle Channel / 1RB



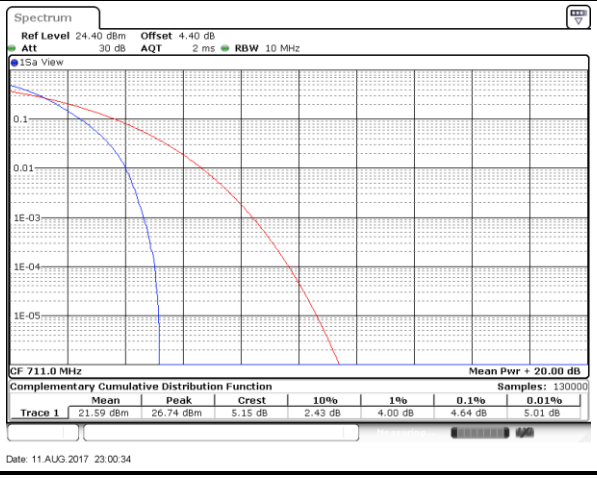
Middle Channel / Full RB



Highest Channel / 1RB

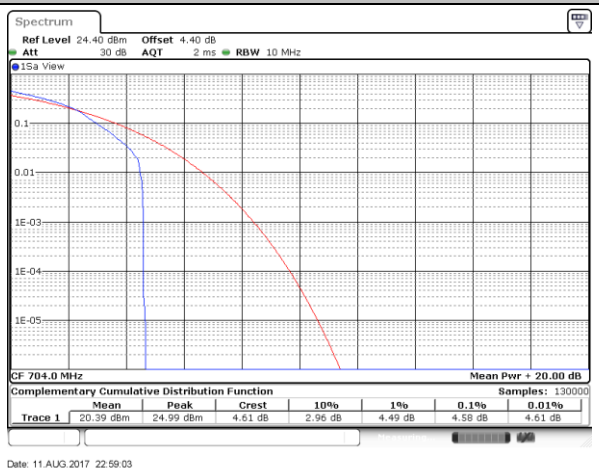


Highest Channel / Full RB

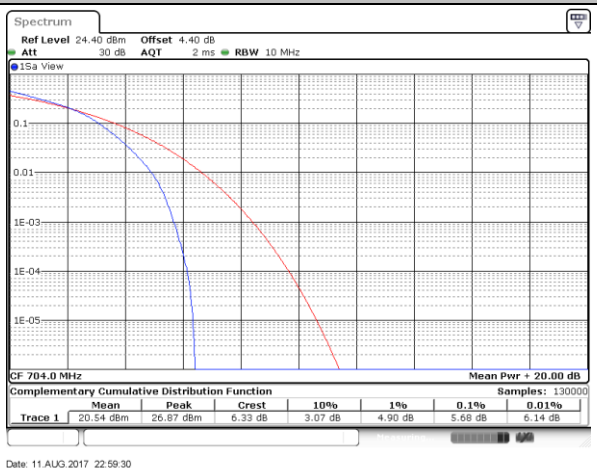


LTE Band 12 / 10MHz / 16QAM

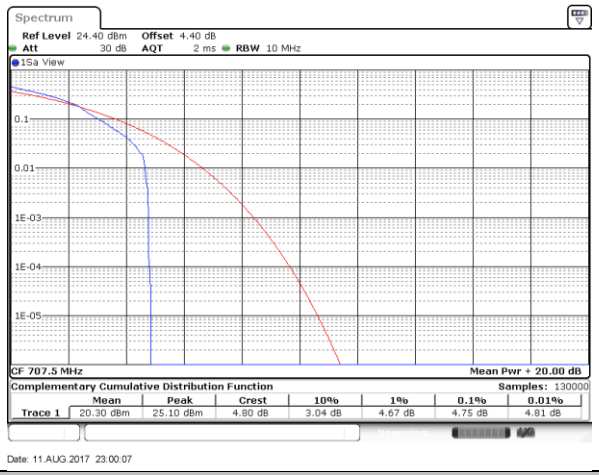
Lowest Channel / 1RB



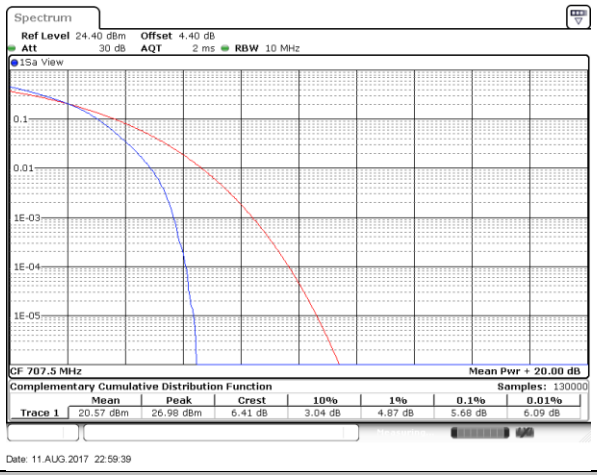
Lowest Channel / Full RB



Middle Channel / 1RB

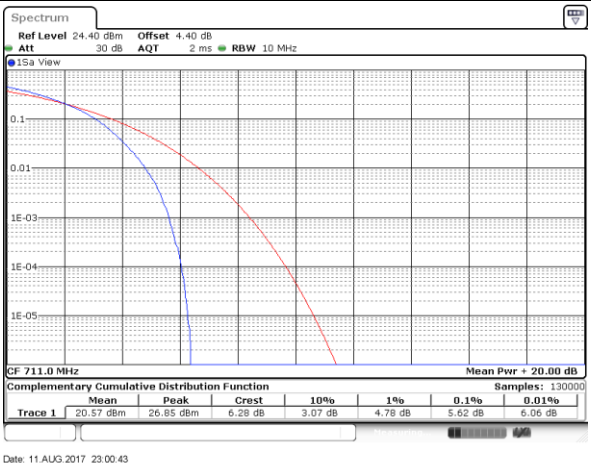


Middle Channel / Full RB



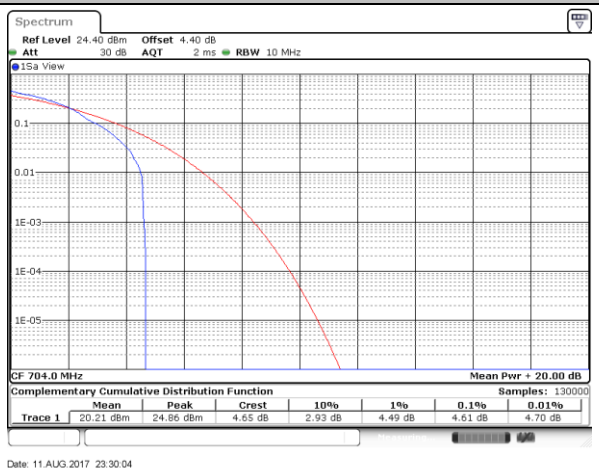
Highest Channel / 1RB

Highest Channel / Full RB

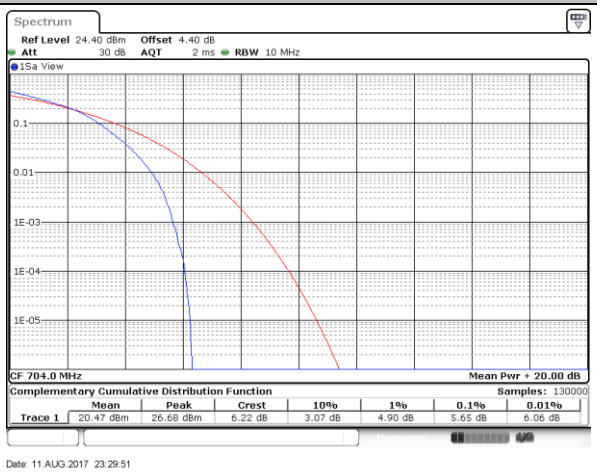


LTE Band 12 / 10MHz / 64QAM

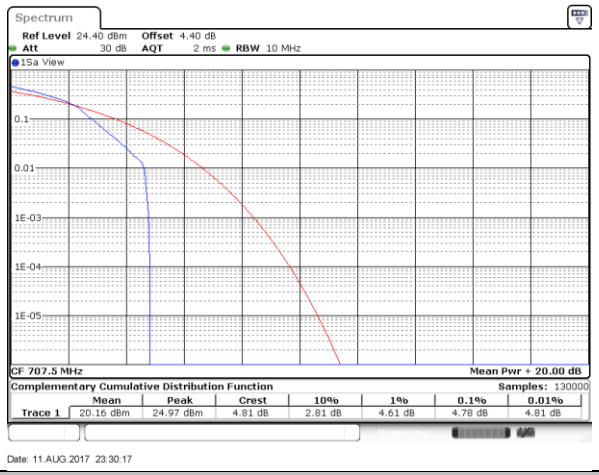
Lowest Channel / 1RB



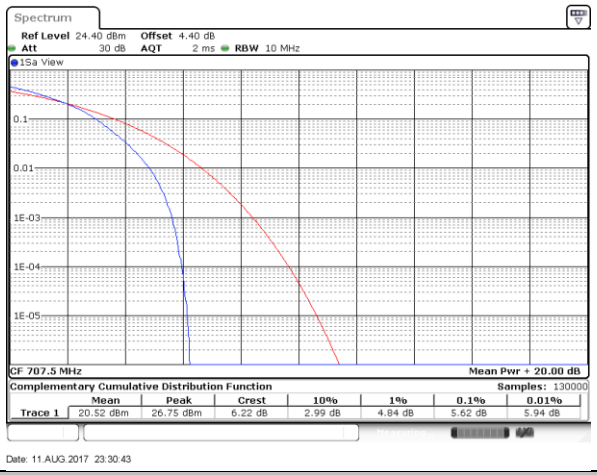
Lowest Channel / Full RB



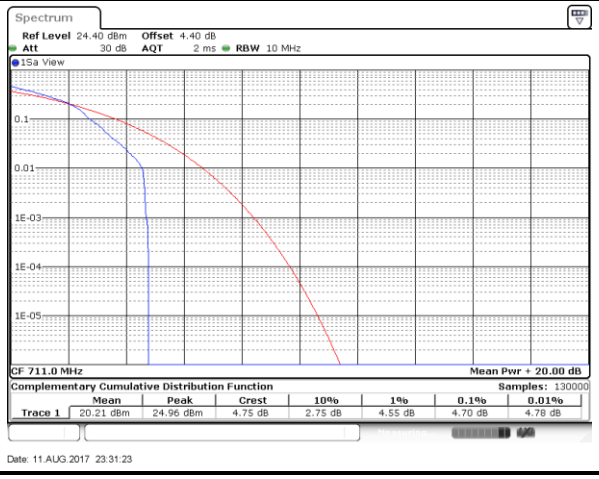
Middle Channel / 1RB



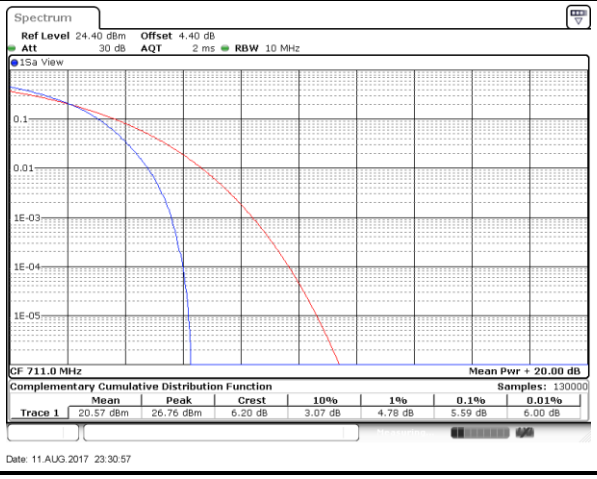
Middle Channel / Full RB

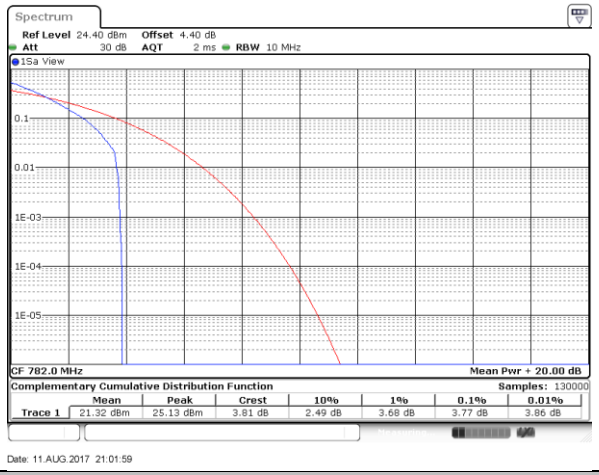
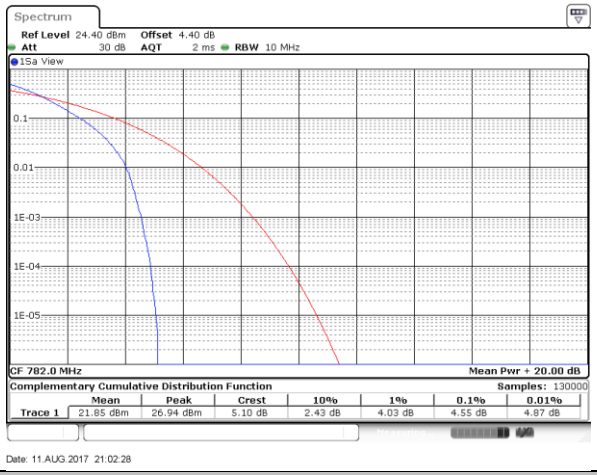


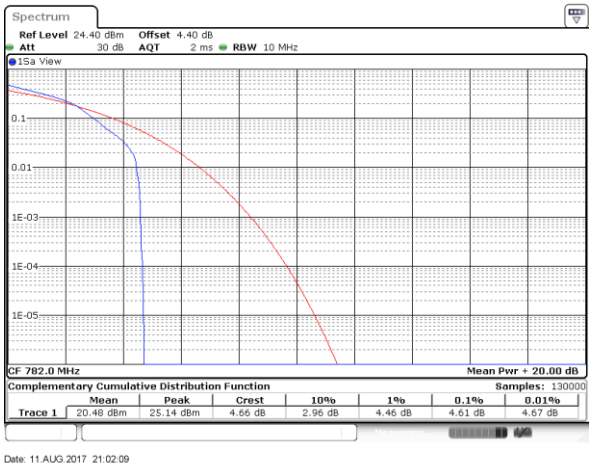
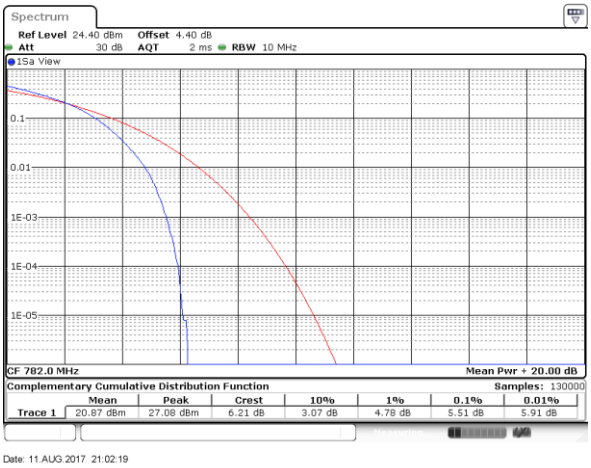
Highest Channel / 1RB

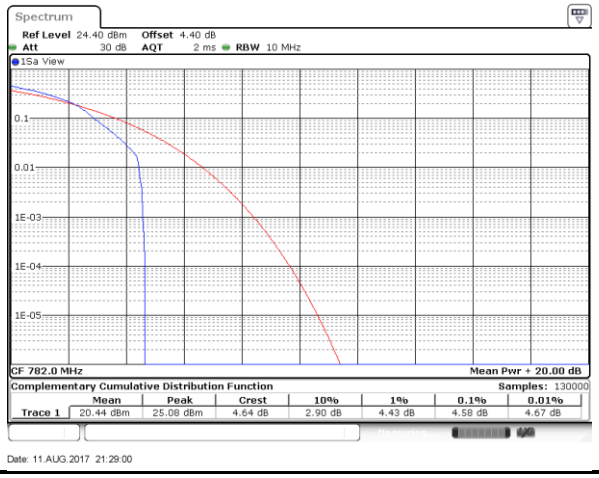
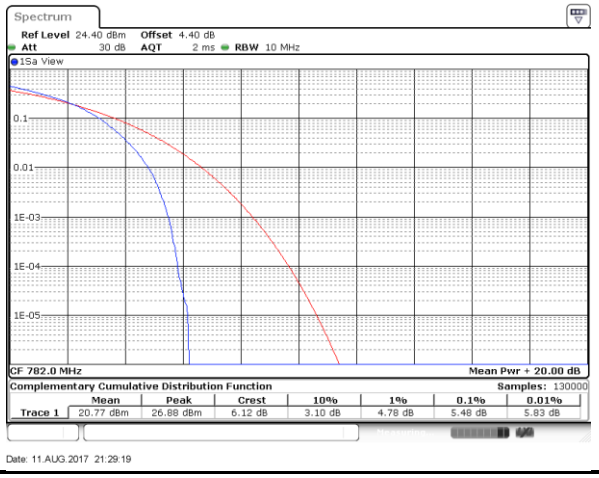


Highest Channel / Full RB



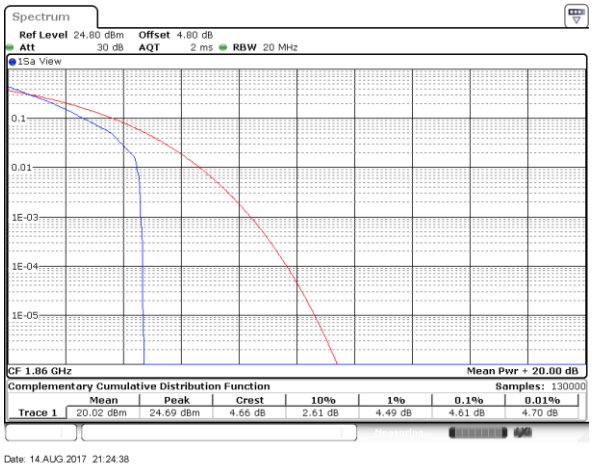
LTE Band 13 / 10MHz / QPSK	
Middle Channel/ 1RB	**Middle Channel / Full RB**
	

LTE Band 13 / 10MHz / 16QAM	
Middle Channel/ 1RB	**Middle Channel / Full RB**
	

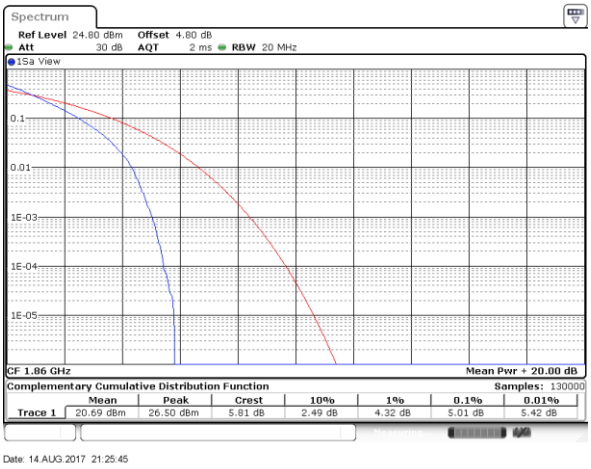
LTE Band 13 / 10MHz / 64QAM	
Middle Channel/ 1RB	**Middle Channel / Full RB**
	

LTE Band 25 / 20MHz / QPSK

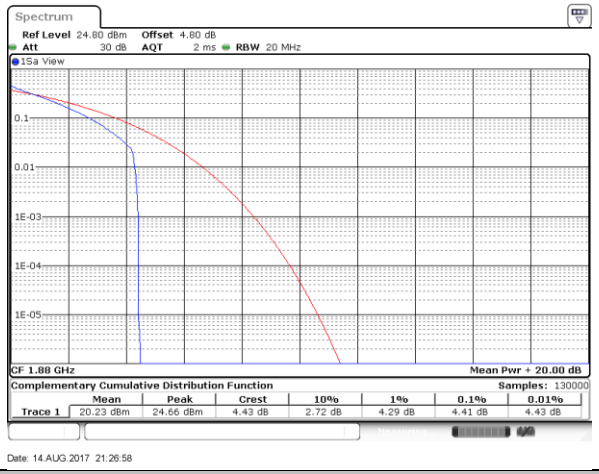
Lowest Channel / 1RB



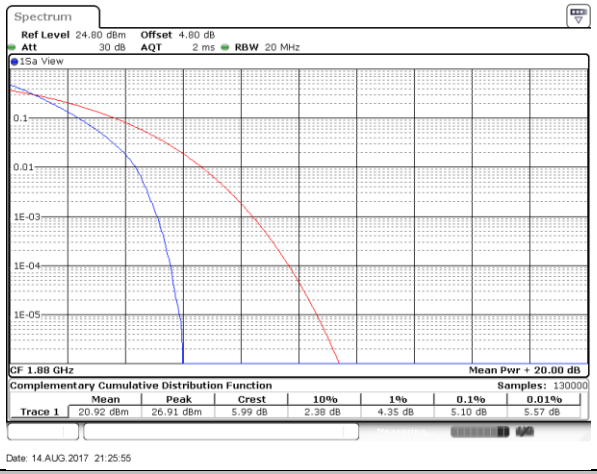
Lowest Channel / Full RB



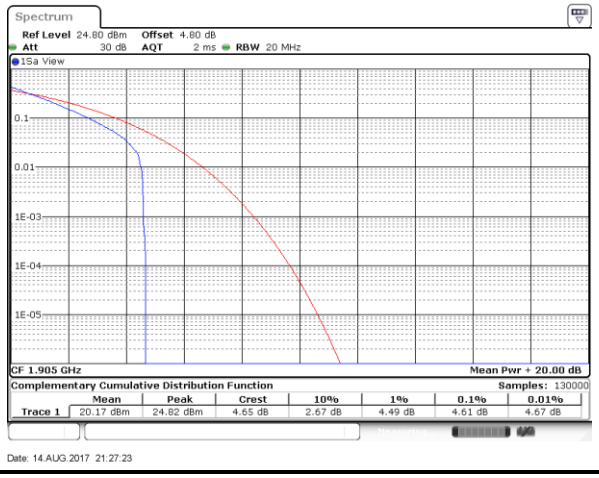
Middle Channel / 1RB



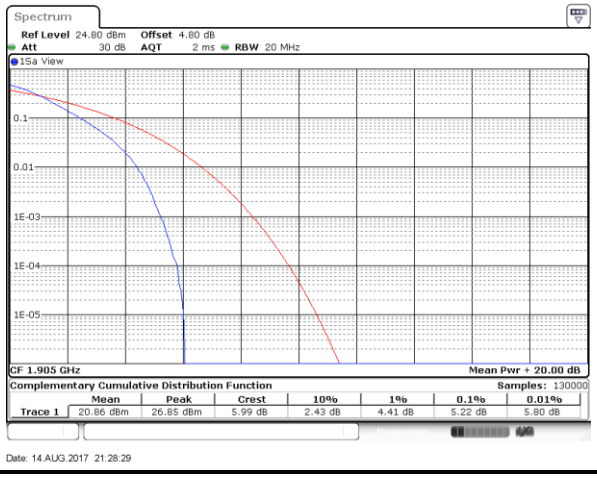
Middle Channel / Full RB



Highest Channel / 1RB

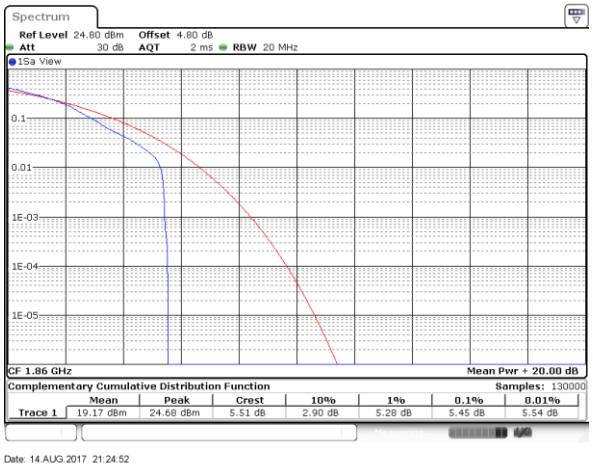


Highest Channel / Full RB

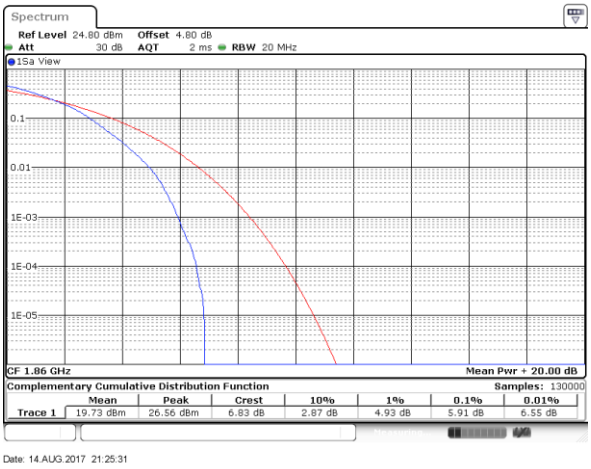


LTE Band 25 / 20MHz / 16QAM

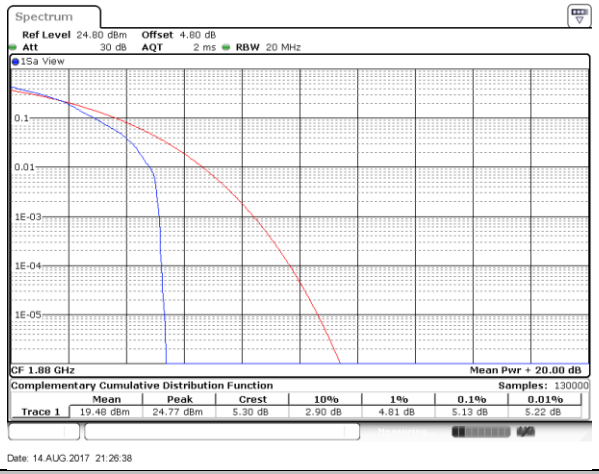
Lowest Channel / 1RB



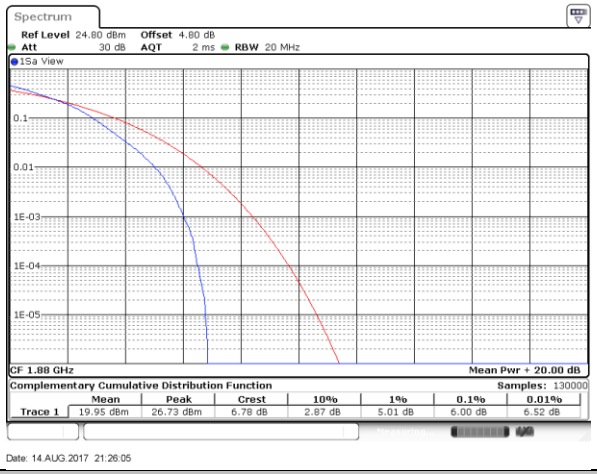
Lowest Channel / Full RB



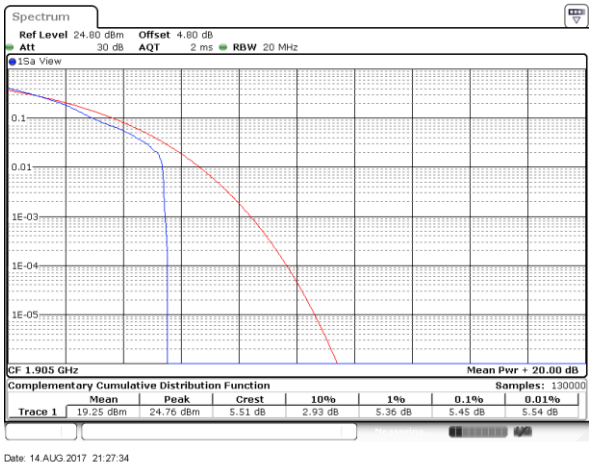
Middle Channel / 1RB



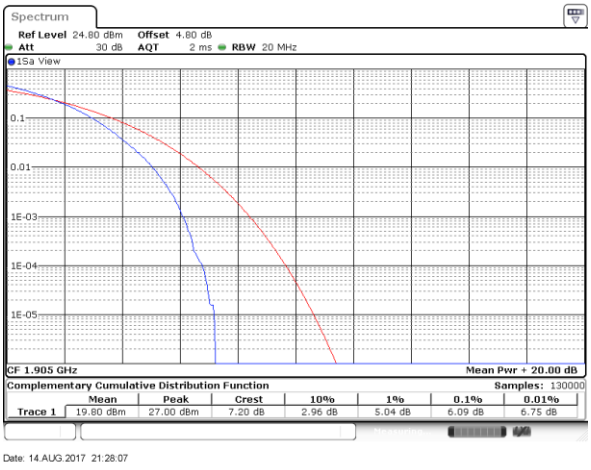
Middle Channel / Full RB



Highest Channel / 1RB

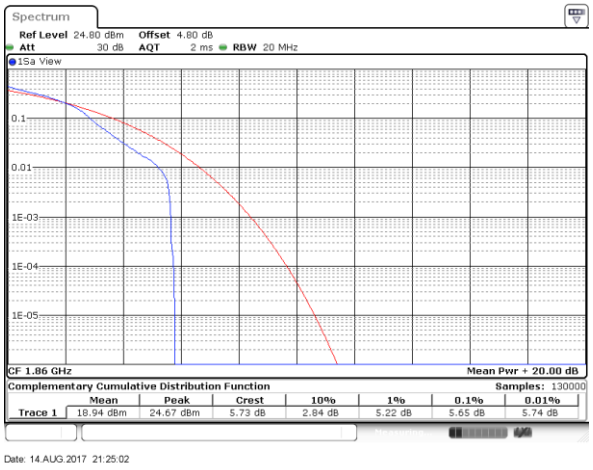


Highest Channel / Full RB

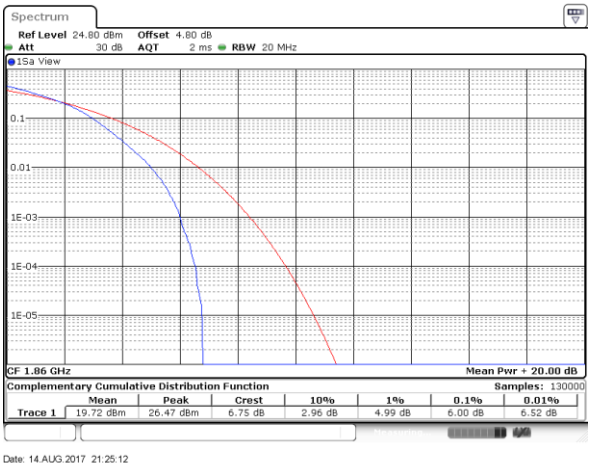


LTE Band 25 / 20MHz / 64QAM

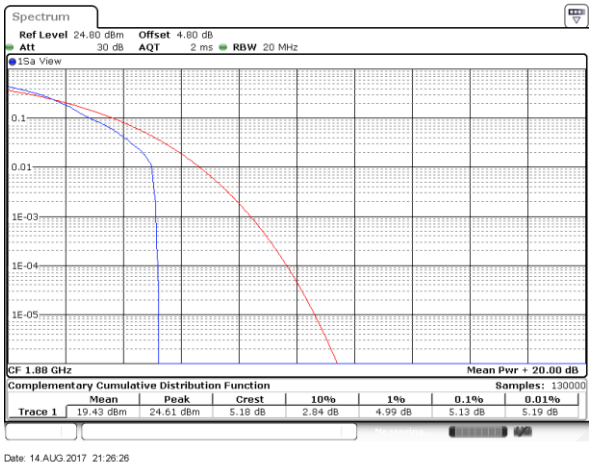
Lowest Channel / 1RB



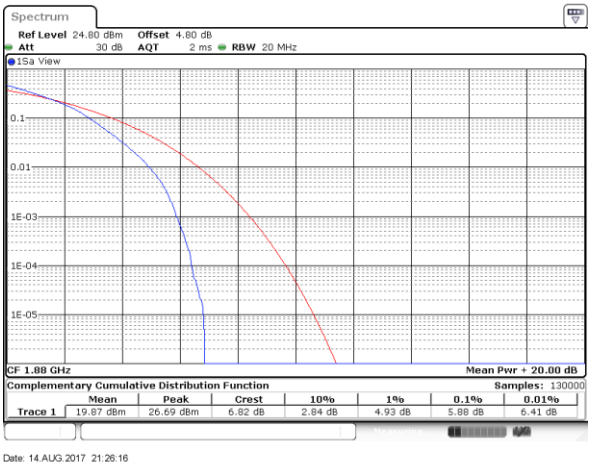
Lowest Channel / Full RB



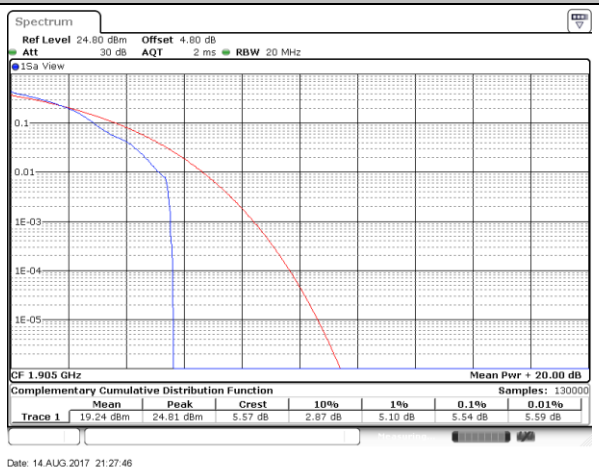
Middle Channel / 1RB



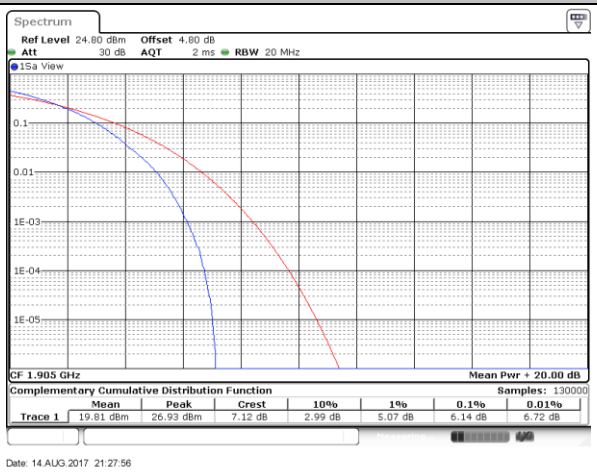
Middle Channel / Full RB



Highest Channel / 1RB

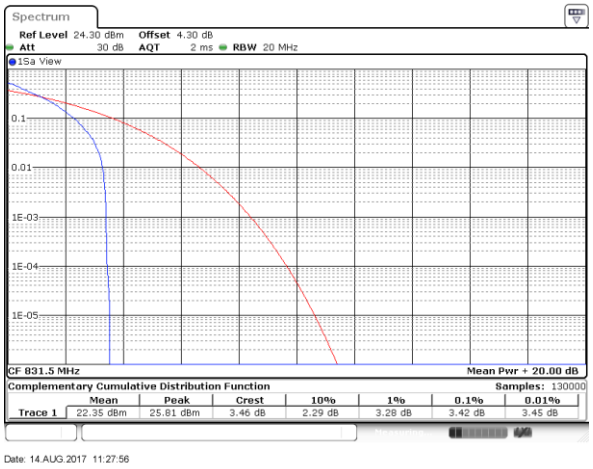


Highest Channel / Full RB

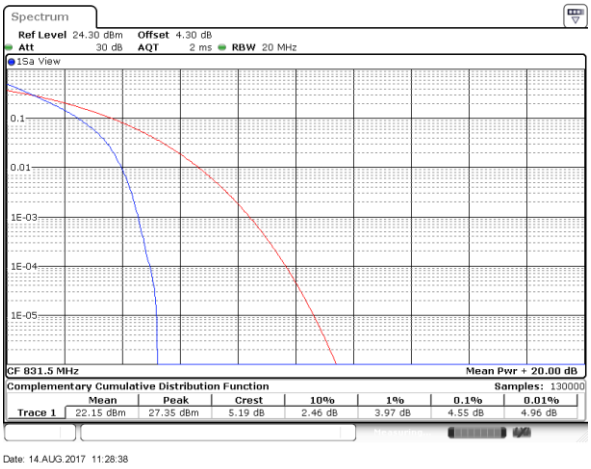


LTE Band 26 / 15MHz / QPSK

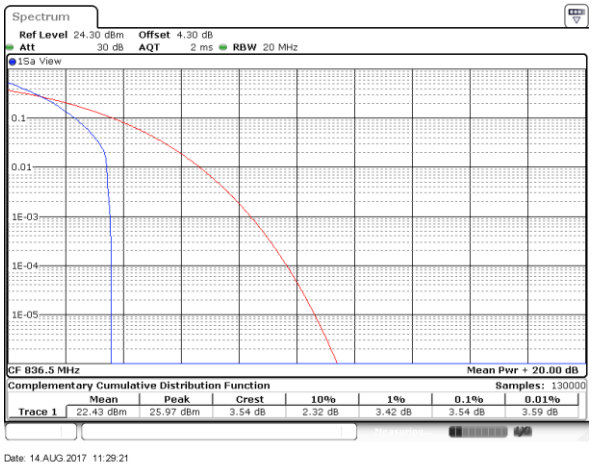
Lowest Channel / 1RB



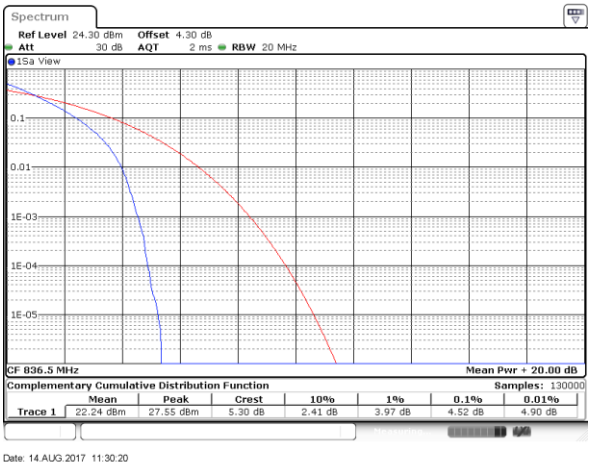
Lowest Channel / Full RB



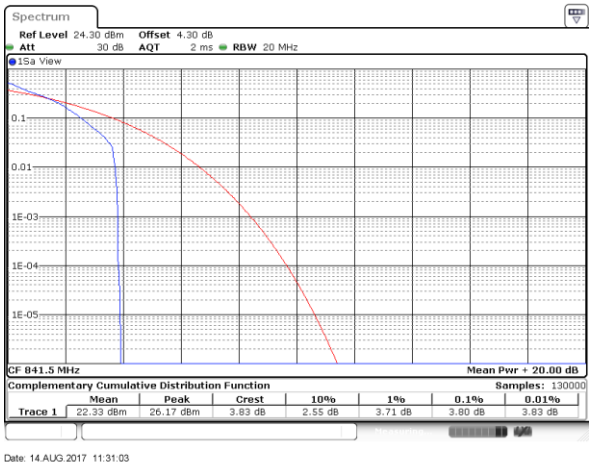
Middle Channel / 1RB



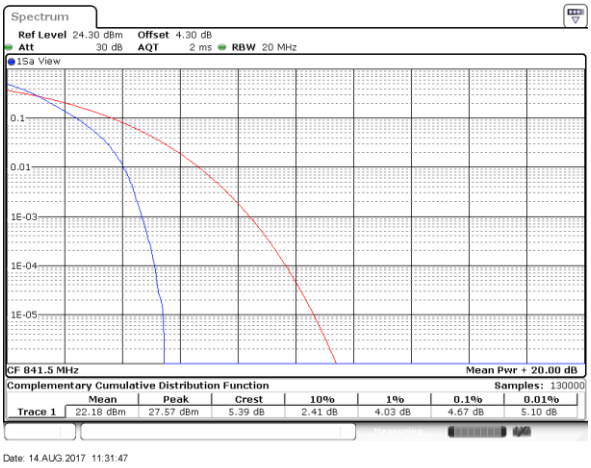
Middle Channel / Full RB



Highest Channel / 1RB

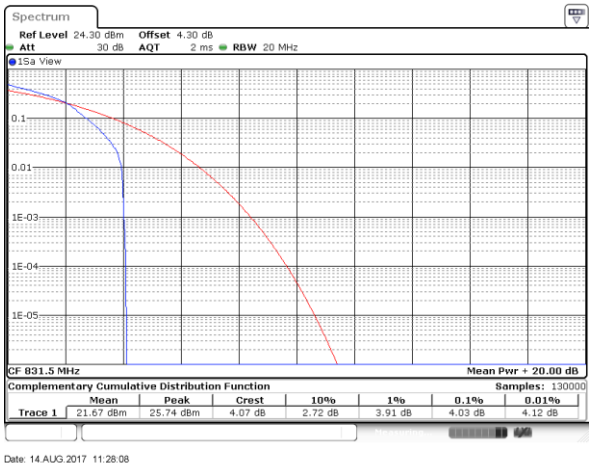


Highest Channel / Full RB

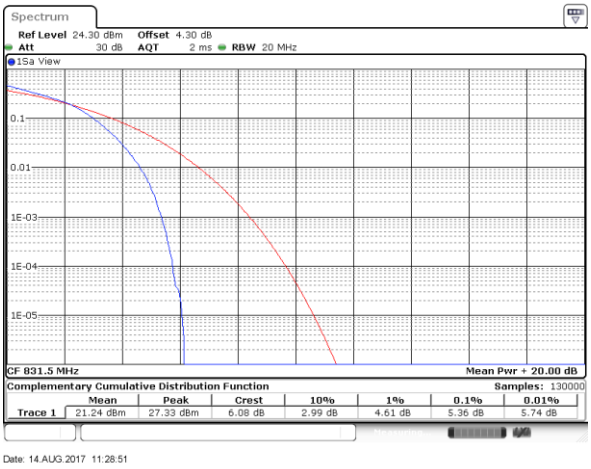


LTE Band 26 / 15MHz / 16QAM

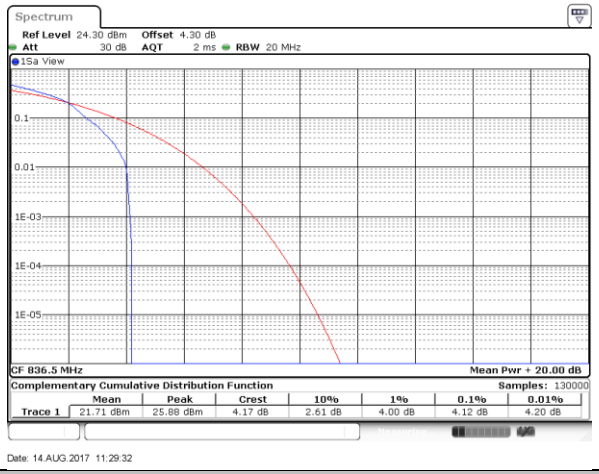
Lowest Channel / 1RB



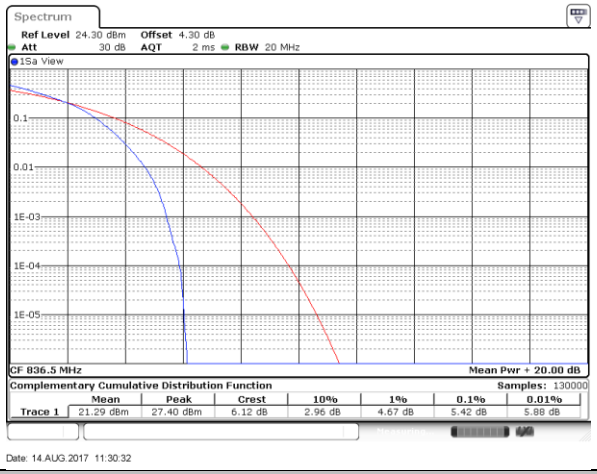
Lowest Channel / Full RB

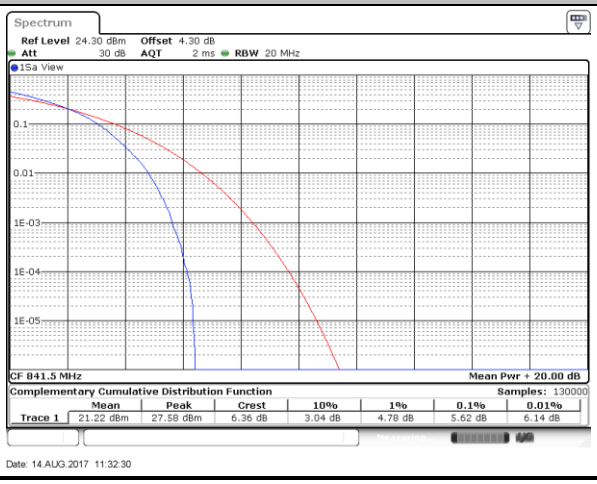


Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB

Highest Channel / Full RB