

FCC RF Test Report

APPLICANT : OnePlus Technology (shenzhen) Co., Ltd
EQUIPMENT : Smart Phone
BRAND NAME : ONEPLUS
MODEL NAME : ONEPLUS A5000
FCC ID : 2ABZ2-A5000
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(F), 27(H)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Jan. 22, 2017 and completely tested on May 31, 2017. We, Sporton International (ShenZhen) 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 (ShenZhen) INC., the test report shall not be reproduced except in full.



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG712206B	Rev. 01	Initial issue of report	May 27, 2017
FG712206B	Rev. 02	Update report for adding the test results of 64QAM	Jun. 02, 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(c)(10)	Effective Radiated Power (Band 12) (Band 17)	ERP < 3 Watt	PASS	-
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2)(Band 25) (Band 7) (Band 38) (Band 41)	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(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 26) (Band 12) (Band 17) (Band 25) (Band 66)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)	§27.53(m)(4)		
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 17) (Band 25) (Band 26) (Band 66)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 38)(Band 41)	< 55+10log ₁₀ (P[Watts])		
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 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(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 17) (Band 25) (Band 26) (Band 66)	$< 43 + 10\log_{10}(P[\text{Watts}])$	PASS	Under limit 8.04 dB at 7489.770 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38)(Band 41)	$< 55 + 10\log_{10}(P[\text{Watts}])$		



1 General Description

1.1 Applicant

OnePlus Technology (shenzhen) Co., Ltd

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

1.2 Manufacturer

OnePlus Technology (shenzhen) Co., Ltd

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

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart Phone
Brand Name	ONEPLUS
Model Name	ONEPLUS A5000
FCC ID	2ABZ2-A5000
EUT supports Radios application	CDMA/EVDO/GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/HSPA+/LTE/NFC WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ac VHT20/VHT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/ Bluetooth v3.0 + EDR/ Bluetooth v 4.0 LE/ Bluetooth v4.1 LE/ Bluetooth v4.2 LE/ Bluetooth v5.0 LE
IMEI Code	Top Antenna Conducted: 001001228352610&001001228352610 (LTE B2/4/25) 001001228348348725&001001228348725 (LTE B5/7) 001001228224629/001001228224629 (12/17/26/38/41/66) Radiation: 001001227811087/001001227811087 Bottom Antenna Radiation: 001001228409055/001001228409055
HW Version	EB101
SW Version	H2OS V3.5
EUT Stage	Production Unit

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz LTE Band 12 : 699.7 MHz ~ 715.3 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz LTE Band 25 : 1850.7MHz ~ 1914.3 MHz LTE Band 26 : 824.7MHz ~ 848.3 MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 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 : 2622.5 MHz ~ 2687.5 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz LTE Band 25 : 1930.7 MHz ~ 1994.3 MHz LTE Band 26 : 869.7 MHz ~ 893.3 MHz LTE Band 38 : 2572.5 MHz ~ 2617.5 MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz 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 17 : 5MHz / 10MHz LTE Band 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz

Maximum Output Power	LTE Band 2 : 22.36 dBm LTE Band 4 : 22.84 dBm LTE Band 5 : 23.18 dBm LTE Band 7 : 22.37 dBm LTE Band 12 : 23.13 dBm LTE Band 17 : 23.18 dBm LTE Band 25 : 22.37 dBm LTE Band 26 : 23.37 dBm LTE Band 38 : 22.63 dBm LTE Band 41 : 22.36 dBm LTE Band 66 : 22.85 dBm
Antenna Gain to Top Antenna	LTE Band 2 : -1.0 dBi LTE Band 4 : -1.0 dBi LTE Band 5 : -2.0 dBi LTE Band 7 : 0 dBi LTE Band 12 : -4.0 dBi LTE Band 17 : -4.0 dBi LTE Band 25 : -1.0 dBi LTE Band 26 : -2.0 dBi LTE Band 38 : 0 dBi LTE Band 41 : 0 dBi LTE Band 66 : -1.0 dBi
Antenna Gain to Bottom Antenna	LTE Band 2 : -0.5 dBi LTE Band 4 : -0.5 dBi LTE Band 5 : -2.0 dBi LTE Band 7 : 0 dBi LTE Band 12 : -4.0 dBi LTE Band 17 : -4.0 dBi LTE Band 25 : -0.5 dBi LTE Band 26 : -2.0 dBi LTE Band 38 : 0 dBi LTE Band 41 : 0 dBi LTE Band 66 : -0.5 dBi
Type of Modulation	QPSK / 16QAM / 64QAM

1.5 Modification of EUT

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



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

LTE Band 2		QPSK				16QAM			
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)		Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	
				Top	Bottom			Top	Bottom
1.4	1850.7 ~ 1909.3	1M09G7D	-	0.1343	0.1507	1M09W7D	-	0.1122	0.1259
3	1851.5 ~ 1908.5	2M72G7D	-	0.1346	0.1510	2M72W7D	-	0.1125	0.1262
5	1852.5 ~ 1907.5	4M49G7D	-	0.1349	0.1514	4M50W7D	-	0.1130	0.1268
10	1855.0 ~ 1905.0	9M07G7D	0.0122	0.1358	0.1524	9M03W7D	-	0.1140	0.1279
15	1857.5 ~ 1902.5	13M5G7D	-	0.1352	0.1517	13M5W7D	-	0.1202	0.1349
20	1860.0 ~ 1900.0	18M4G7D	-	0.1368	0.1535	18M4W7D	-	0.1208	0.1355
LTE Band 2		64QAM							
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)					
				Top	Bottom				
1.4	1850.7 ~ 1909.3	1M09W7D	-	0.0855	0.0959				
3	1851.5 ~ 1908.5	2M74W7D	-	0.0855	0.0959				
5	1852.5 ~ 1907.5	4M49W7D	-	0.0849	0.0953				
10	1855.0 ~ 1905.0	9M03W7D	-	0.0877	0.0984				
15	1857.5 ~ 1902.5	13M5W7D	-	0.0927	0.1040				
20	1860.0 ~ 1900.0	18M3W7D	-	0.0918	0.1030				
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)	
				Top	Bottom			Top	Bottom
1.4	1850.7 ~ 1914.3	1M10G7D	-	0.1361	0.1528	1M10W7D	-	0.1109	0.1245
3	1851.5 ~ 1913.5	2M75G7D	-	0.1365	0.1531	2M73W7D	-	0.1180	0.1324
5	1852.5 ~ 1912.5	4M50G7D	-	0.1346	0.1510	4M50W7D	-	0.1202	0.1349
10	1855.0 ~ 1910.0	9M05G7D	0.0138	0.1368	0.1535	9M03W7D	-	0.1239	0.1390
15	1857.5 ~ 1907.5	13M4G7D	-	0.1365	0.1531	13M5W7D	-	0.1250	0.1403
20	1860.0 ~ 1905.0	18M3G7D	-	0.1371	0.1538	18M4W7D	-	0.1230	0.1380



LTE Band 25		64QAM							
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)					
				Top	Bottom				
1.4	1850.7 ~ 1914.3	1M09W7D	-	0.0895	0.1005				
3	1851.5 ~ 1913.5	2M73W7D	-	0.0925	0.1038				
5	1852.5 ~ 1912.5	4M43W7D	-	0.0920	0.1033				
10	1855.0 ~ 1910.0	8M99W7D	-	0.0931	0.1045				
15	1857.5 ~ 1907.5	13M5W7D	-	0.0942	0.1057				
20	1860.0 ~ 1905.0	18M4W7D	-	0.0959	0.1076				
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)	
				Top	Bottom			Top	Bottom
1.4	1710.7 ~ 1754.3	1M09G7D	-	0.1409	0.1581	1M09W7D	-	0.1114	0.1250
3	1711.5 ~ 1753.5	2M73G7D	-	0.1409	0.1581	2M73W7D	-	0.1119	0.1256
5	1712.5 ~ 1752.5	4M50G7D	-	0.1426	0.1600	4M51W7D	-	0.1125	0.1262
10	1715.0 ~ 1750.0	9M05G7D	0.0190	0.1426	0.1600	9M01W7D	-	0.1143	0.1282
15	1717.5 ~ 1747.5	13M5G7D	-	0.1476	0.1656	13M5W7D	-	0.1169	0.1312
20	1720.0 ~ 1745.0	18M5G7D	-	0.1528	0.1714	18M3W7D	-	0.1239	0.1390
LTE Band 4		64QAM							
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)					
				Top	Bottom				
1.4	1710.7 ~ 1754.3	1M09W7D	-	0.0964	0.1081				
3	1711.5 ~ 1753.5	2M73W7D	-	0.0955	0.1072				
5	1712.5 ~ 1752.5	4M49W7D	-	0.0989	0.1109				
10	1715.0 ~ 1750.0	9M09W7D	-	0.0962	0.1079				
15	1717.5 ~ 1747.5	13M5W7D	-	0.0991	0.1112				
20	1720.0 ~ 1745.0	18M5W7D	-	0.0968	0.1086				



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)	
				Top	Bottom			Top	Bottom
1.4	824.7 ~ 848.3	1M10G7D	-	0.0783	0.0783	1M10W7D	-	0.0661	0.0661
3	825.5 ~ 847.5	2M72G7D	-	0.0778	0.0778	2M72W7D	-	0.0662	0.0662
5	826.5 ~ 846.5	4M50G7D	-	0.0787	0.0787	4M50W7D	-	0.0667	0.0667
10	829.0 ~ 844.0	9M07G7D	0.0550	0.0800	0.0800	9M07W7D	-	0.0675	0.0675
LTE Band 5		64QAM							
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum ERP(W)			
						Top		Bottom	
1.4	824.7 ~ 848.3	1M09W7D		-		0.0500		0.0500	
3	825.5 ~ 847.5	2M73W7D		-		0.0504		0.0504	
5	826.5 ~ 846.5	4M49W7D		-		0.0515		0.0515	
10	829.0 ~ 844.0	9M05W7D		-		0.0527		0.0527	
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)	
				Top	Bottom			Top	Bottom
5	2502.5 ~ 2567.5	4M50G7D	-	0.1683	0.1683	4M51W7D	-	0.1507	0.1507
10	2505.0 ~ 2565.0	9M05G7D	0.0170	0.1706	0.1706	9M03W7D	-	0.1507	0.1507
15	2507.5 ~ 2562.5	13M5G7D	-	0.1722	0.1722	13M5W7D	-	0.1563	0.1563
20	2510.0 ~ 2560.0	18M4G7D	-	0.1726	0.1726	18M4W7D	-	0.1524	0.1524
LTE Band 7		64QAM							
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)			
						Top		Bottom	
1.4	2502.5 ~ 2567.5	4M50W7D		-		0.1107		0.1107	
3	2505.0 ~ 2565.0	9M03W7D		-		0.1086		0.1086	
5	2507.5 ~ 2562.5	13M5W7D		-		0.1140		0.1140	
10	2510.0 ~ 2560.0	18M5W7D		-		0.1127		0.1127	



LTE Band 7 CA		QPSK				16QAM			
BW (MHz)		Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)		Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	
				Top	Bottom			Top	Bottom
10MHz+20MHz		28M1G7D	-	0.1687	0.1687	28M1W7D	-	0.1542	0.1542
15MHz+15MHz		28M7G7D	0.03	0.1710	0.1710	28M7W7D	-	0.1596	0.1596
15MHz+20MHz		32M7G7D	-	0.1683	0.1683	32M9W7D	-	0.1585	0.1585
20MHz+10MHz		28M0G7D	-	0.1687	0.1687	28M1W7D	-	0.1556	0.1556
20MHz+15MHz		32M9G7D	-	0.1706	0.1706	32M9W7D	-	0.1671	0.1671
20MHz+20MHz		37M6G7D	-	0.1710	0.1710	37M6W7D	-	0.1626	0.1626
LTE Band 7 CA		64QAM							
BW (MHz)		Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)			
						Top		Bottom	
10MHz+20MHz		27M9W7D		-		0.0977		0.0977	
15MHz+15MHz		28M6W7D		-		0.1028		0.1028	
15MHz+20MHz		32M7W7D		-		0.1028		0.1028	
20MHz+10MHz		28M1W7D		-		0.1005		0.1005	
20MHz+15MHz		32M7W7D		-		0.1014		0.1014	
20MHz+20MHz		37M6W7D		-		0.1472		0.1472	
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)	
				Top	Bottom			Top	Bottom
1.4	699.7 ~ 715.3	1M09G7D	-	0.0489	0.0489	1M10W7D	-	0.0431	0.0431
3	700.5 ~ 714.5	2M72G7D	-	0.0482	0.0482	2M74W7D	-	0.0405	0.0405
5	701.5 ~ 713.5	4M49G7D	-	0.0489	0.0489	4M51W7D	-	0.0430	0.0430
10	704.0 ~ 711.0	9M03G7D	0.0622	0.0499	0.0499	9M05W7D	-	0.0428	0.0428
LTE Band 12		64QAM							
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum ERP(W)			
						Top		Bottom	
1.4	699.7 ~ 715.3	1M09W7D		-		0.0318		0.0318	
3	700.5 ~ 714.5	2M73W7D		-		0.0343		0.0343	
5	701.5 ~ 713.5	4M50W7D		-		0.0319		0.0319	
10	704.0 ~ 711.0	9M05W7D		-		0.0319		0.0319	



LTE Band 17		QPSK				16QAM			
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)		Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	
				Top	Bottom			Top	Bottom
5	706.5 ~ 713.5	4M50G7D	-	0.0501	0.0501	4M50W7D	-	0.0431	0.0431
10	709.0 ~ 711.0	9M05G7D	0.0254	0.0505	0.0505	9M03W7D	-	0.0416	0.0416
LTE Band 17		64QAM							
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum ERP(W)			
						Top	Bottom		
5	706.5 ~ 713.5	4M52W7D		-		0.0321		0.0321	
10	709.0 ~ 711.0	9M01W7D		-		0.0324		0.0324	
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)	
				Top	Bottom			Top	Bottom
1.4	824.7 ~ 848.3	1M09G7D	-	0.0785	0.0785	1M10W7D	-	0.0711	0.0711
3	825.5 ~ 847.5	2M72G7D	-	0.0811	0.0811	2M72W7D	-	0.0701	0.0701
5	826.5 ~ 846.5	4M51G7D	-	0.0794	0.0794	4M49W7D	-	0.0710	0.0710
10	829.0 ~ 844.0	9M07G7D	0.0397	0.0826	0.0826	9M09W7D	-	0.0697	0.0697
15	831.5 ~ 841.5	13M5G7D	-	0.0836	0.0836	13M5W7D	-	0.0705	0.0705
CH26765	821.5	13M5G7D	-	0.0798	0.0798	13M4W7D	-	0.0723	0.0723
LTE Band 26		64QAM							
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum ERP(W)			
						Top	Bottom		
1.4	824.7 ~ 848.3	1M09W7D		-		0.0497		0.0497	
3	825.5 ~ 847.5	2M75W7D		-		0.0500		0.0500	
5	826.5 ~ 846.5	4M50W7D		-		0.0500		0.0500	
10	829.0 ~ 844.0	9M05W7D		-		0.0507		0.0507	
15	831.5 ~ 841.5	13M5W7D		-		0.0505		0.0505	
CH26765	821.5	13M4W7D		-		0.0516		0.0516	



LTE Band 38		QPSK				16QAM			
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)		Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	
				Top	Bottom			Top	Bottom
5	2572.5 ~ 2617.5	4M50G7D	-	0.1762	0.1762	4M50W7D	-	0.1528	0.1528
10	2575.0 ~ 2615.0	9M03G7D	0.0119	0.1778	0.1778	9M07W7D	-	0.1545	0.1545
15	2577.5 ~ 2612.5	13M4G7D	-	0.1828	0.1828	13M5W7D	-	0.1581	0.1581
20	2580.0 ~ 2610.0	18M4G7D	-	0.1832	0.1832	18M3W7D	-	0.1542	0.1542
LTE Band 38		64QAM							
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)			
						Top		Bottom	
5	2572.5 ~ 2617.5	4M49W7D		-		0.1159		0.1159	
10	2575.0 ~ 2615.0	9M03W7D		-		0.1205		0.1205	
15	2577.5 ~ 2612.5	13M4W7D		-		0.1225		0.1225	
20	2580.0 ~ 2610.0	18M5W7D		-		0.1194		0.1194	
LTE Band 41		QPSK				16QAM			
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)		Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	
				Top	Bottom			Top	Bottom
5	2498.5 ~ 2687.5	4M51G7D	-	0.1690	0.1690	4M52W7D	-	0.1384	0.1384
10	2501.0 ~ 2685.0	9M01G7D	0.0154	0.1675	0.1675	9M05W7D	-	0.1413	0.1413
15	2503.5 ~ 2682.5	13M5G7D	-	0.1644	0.1644	13M5W7D	-	0.1426	0.1426
20	2506.0 ~ 2680.0	18M5G7D	-	0.1722	0.1722	18M3W7D	-	0.1469	0.1469
LTE Band 41		64QAM							
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)			
						Top		Bottom	
5	2498.5 ~ 2687.5	4M50W7D		-		0.1250		0.1250	
10	2501.0 ~ 2685.0	9M05W7D		-		0.1143		0.1143	
15	2503.5 ~ 2682.5	13M5W7D		-		0.1135		0.1135	
20	2506.0 ~ 2680.0	18M4W7D		-		0.1194		0.1194	



LTE Band 41 CA		QPSK				16QAM			
BW (MHz)		Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)		Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	
				Top	Bottom			Top	Bottom
5MHz+20MHz		23M3G7D	-	0.1675	0.1675	23M3W7D	-	0.1629	0.1629
10MHz+20MHz		28M0G7D	0.03	0.1660	0.1660	28M1W7D	-	0.1574	0.1574
15MHz+15MHz		28M7G7D	-	0.1714	0.1714	28M5W7D	-	0.1671	0.1671
15MHz+20MHz		32M9G7D	-	0.1660	0.1660	32M9W7D	-	0.1589	0.1589
20MHz+5MHz		23M4G7D	-	0.1679	0.1679	23M3W7D	-	0.1644	0.1644
20MHz+10MHz		28M1G7D	-	0.1706	0.1706	28M0W7D	-	0.1671	0.1671
20MHz+15MHz		32M8G7D	-	0.1702	0.1702	32M8W7D	-	0.1671	0.1671
20MHz+20MHz		37M6G7D	-	0.1718	0.1718	37M7W7D	-	0.1698	0.1698
LTE Band 41 CA		64QAM							
BW (MHz)		Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)			
						Top		Bottom	
5MHz+20MHz		23M3W7D		-		0.1294		0.1294	
10MHz+20MHz		28M1W7D		-		0.1294		0.1294	
15MHz+15MHz		28M6W7D		-		0.1294		0.1294	
15MHz+20MHz		32M9W7D		-		0.1109		0.1109	
20MHz+5MHz		23M6W7D		-		0.1268		0.1268	
20MHz+10MHz		28M1W7D		-		0.1274		0.1274	
20MHz+15MHz		32M8W7D		-		0.1259		0.1259	
20MHz+20MHz		37M8W7D		-		0.1245		0.1245	
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)	
				Top	Bottom			Top	Bottom
1.4	1710.7 ~ 1779.3	1M10G7D	-	0.1416	0.1589	1M09W7D	-	0.1213	0.1361
3	1711.5 ~ 1778.5	2M73G7D	-	0.1419	0.1592	2M73W7D	-	0.1219	0.1368
5	1712.5 ~ 1777.5	4M50G7D	-	0.1426	0.1600	4M51W7D	-	0.1233	0.1384
10	1715.0 ~ 1775.0	8M99G7D	0.0493	0.1459	0.1637	9M05W7D	-	0.1230	0.1380
15	1717.5 ~ 1772.5	13M5G7D	-	0.1442	0.1618	13M5W7D	-	0.1265	0.1419
20	1720.0 ~ 1770.0	18M4G7D	-	0.1531	0.1718	18M4W7D	-	0.1300	0.1459



LTE Band 66		64QAM			
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	
				Top	Bottom
1.4	1710.7 ~ 1779.3	1M09W7D	-	0.0966	0.1084
3	1711.5 ~ 1778.5	2M73W7D	-	0.0966	0.1084
5	1712.5 ~ 1777.5	4M51W7D	-	0.0975	0.1094
10	1715.0 ~ 1775.0	9M05W7D	-	0.0995	0.1117
15	1717.5 ~ 1772.5	13M5W7D	-	0.1023	0.1148
20	1720.0 ~ 1770.0	18M3W7D	-	0.1023	0.1148

1.7 Testing Location

Test Site	SPORTON International (ShenZhen) INC.	
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan District, Shenzhen City, Guangdong Province, China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595	
Test Site No.	Sporton Site No.	
	TH01-SZ	

Test Site	SPORTON International (ShenZhen) INC.	
Test Site Location	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755- 3320-2398	
Test Site No.	Sporton Site No.	FCC/IC Registration No.
	03CH03-SZ	565805/4086F

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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	5	✓	✓	✓	✓	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓
	7	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	38	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	12	✓	✓	✓	✓	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓
	17	-	-	✓	✓	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓
	25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	26	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	✓
	41	-	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	66	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Peak-to-Average Ratio	2						✓	✓	✓	✓	✓		✓	✓	✓	✓
	4						✓	✓	✓	✓	✓		✓	✓	✓	✓
	5				✓	-	-	✓	✓	✓	✓		✓	✓	✓	✓
	7	-	-				✓	✓	✓	✓	✓		✓	✓	✓	✓
	38	-	-				✓	✓	✓	✓	✓		✓	✓	✓	✓
	12				✓	-	-	✓	✓	✓	✓		✓	✓	✓	✓
	17	-	-		✓	-	-	✓	✓	✓	✓		✓	✓	✓	✓
	25						✓	✓	✓	✓	✓		✓			✓
	26					✓	-	✓	✓	✓	✓		✓	✓	✓	✓
	41	-	-				✓	✓	✓	✓	✓		✓	✓	✓	✓
	66						✓	✓	✓	✓	✓		✓	✓	✓	✓



Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Ha If	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
	38	-	-	V	V	V	V	V	V	V			V	V	V	V
	12	V	V	V	V	-	-	V	V	V			V	V	V	V
	17	-	-	V	V	-	-	V	V	V			V	V	V	V
	25	V	V	V	V	V	V	V	V	V			V			V
	26	V	V	V	V	V	-	V	V	V			V	V	V	V
	41	-	-	V	V	V	V	V	V	V			V	V	V	V
	66	V	V	V	V	V	V	V	V	V			V	V	V	V
Conducted Band Edge	2	V	V	V	V	V	V	V	V	V	V		V	V		V
	4	V	V	V	V	V	V	V	V	V	V		V	V		V
	5	V	V	V	V	-	-	V	V	V	V		V	V		V
	7	-	-	V	V	V	V	V	V	V	V		V	V		V
	38	-	-	V	V	V	V	V	V	V	V		V	V		V
	12	V	V	V	V	-	-	V	V	V	V		V	V		V
	17	-	-	V	V	-	-	V	V	V	V		V	V		V
	25	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
	41	-	-	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

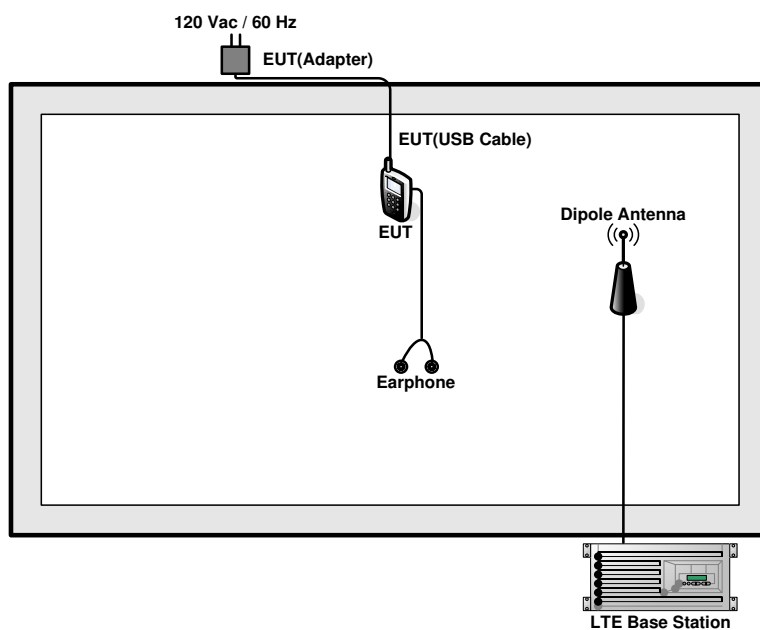


Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Fu II	L	M	H
Conducted Spurious Emission	2	V	V	V	V	V	V	V	V	V	V			V	V	V
	4	V	V	V	V	V	V	V	V	V	V			V	V	V
	5	V	V	V	V	-	-	V	V	V	V			V	V	V
	7	-	-	V	V	V	V	V	V	V	V			V	V	V
	38	-	-	V	V	V	V	V	V	V	V			V	V	V
	12	V	V	V	V	-	-	V	V	V	V			V	V	V
	17	-	-	V	V	-	-	V	V	V	V			V	V	V
	25	V	V	V	V	V	V	V	V	V	V					V
	26	V	V	V	V	V	-	V	V	V	V			V	V	V
	41	-	-	V	V	V	V	V	V	V	V			V	V	V
	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	
	38	-	-		V			V					V		V	
	12				V	-	-	V					V		V	
	17	-	-		V	-	-	V					V		V	
	25				V			V					V		V	
	26				V		-	V					V		V	
	41	-	-		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
	38	-	-	v	v	v	v	v	v	v	v			v	v	v
	12	v	v	v	v	-	-	v	v	v	v			v	v	v
	17	-	-	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
	41	-	-	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	66	v	v	v	v	v	v	v	v	v	v			v	v	v
	2	v	v	v	v	v	v	v			v			v	v	v
	4	v	v	v	v	v	v	v			v			v	v	v
	5	v	v	v	v	-	-	v			v			v	v	v
	7	-	-	v	v	v	v	v			v			v	v	v
	38	-	-	v	v	v	v	v			v			v	v	v
	12	v	v	v	v	-	-	v			v			v	v	v
	17	-	-	v	v	-	-	v			v			v	v	v
	25	v	v	v	v	v	v	v			v			v	v	v
	26	v	v	v	v	v	-	v			v			v	v	v
Note	41	-	-	v	v	v	v	v			v			v	v	v
	66	v	v	v	v	v	v	v			v			v	v	v
		1. The mark “v” means that this configuration is chosen for testing 2. The mark “-” means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.														

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	DC Power Supply	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	Apple	MC690ZP/A	N/A	Shielded, 1.0m	N/A

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

The following shows an offset computation example with RF cable loss 4.5 dB and a 10dB attenuator.

Example :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.5 + 10 = 14.5 \text{ (dB)}\end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

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

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

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

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



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

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

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

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

LTE Band 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

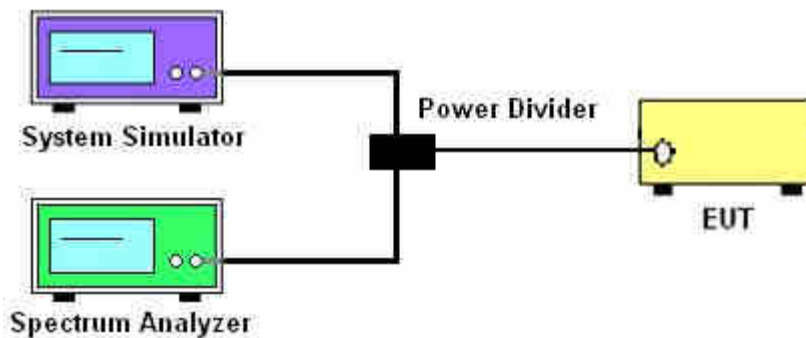
See list of measuring instruments of this test report.

3.2 Test Setup

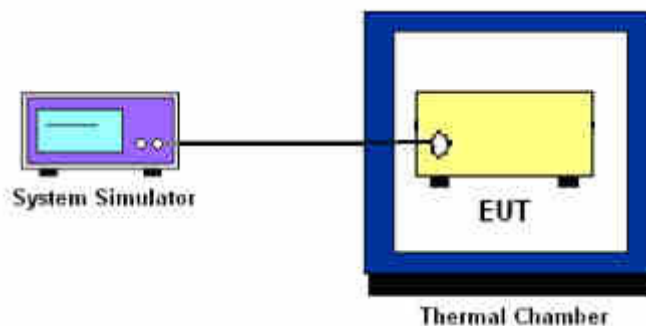
3.2.1 Conducted Output Power



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 and Band 17.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 25 and Band 7 and Band 38 and Band 41.

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

24.238 (a)

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

27.53 (g)

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

27.53 (h)

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

27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

3.7.2 Test Procedures

1. The testing follows 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 $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
6. Set spectrum analyzer with RMS detector.
7. Offset has included the duty factor for LTE Band 38/41. Duty factor $= 10 \log (1/x)$, where x is the measured duty cycle
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. Checked that all the results comply with the emission limit line.

Example:

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

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

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

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

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

For Band 7,38,41:

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

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

3.8.2 Test Procedures

1. The testing follows 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. Offset has included the duty factor for LTE Band 38/41. Duty factor = $10 \log (1/x)$, where x is the measured duty cycle
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
11. The limit line is derived from $43 + 10 \log (P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10 \log (P)]$ (dB)
 $= [30 + 10 \log (P)]$ (dBm) - $[43 + 10 \log (P)]$ (dB)
 $= -13$ dBm.
12. For Band 7, 38, 41
The limit line is derived from $55 + 10 \log (P)$ dB below the transmitter power P(Watts)
 $= P(W) - [55 + 10 \log (P)]$ (dB)
 $= [30 + 10 \log (P)]$ (dBm) - $[55 + 10 \log (P)]$ (dB)
 $= -25$ dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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

3.9.2 Test Procedures for Temperature Variation

1. The testing follows 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 $20\pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

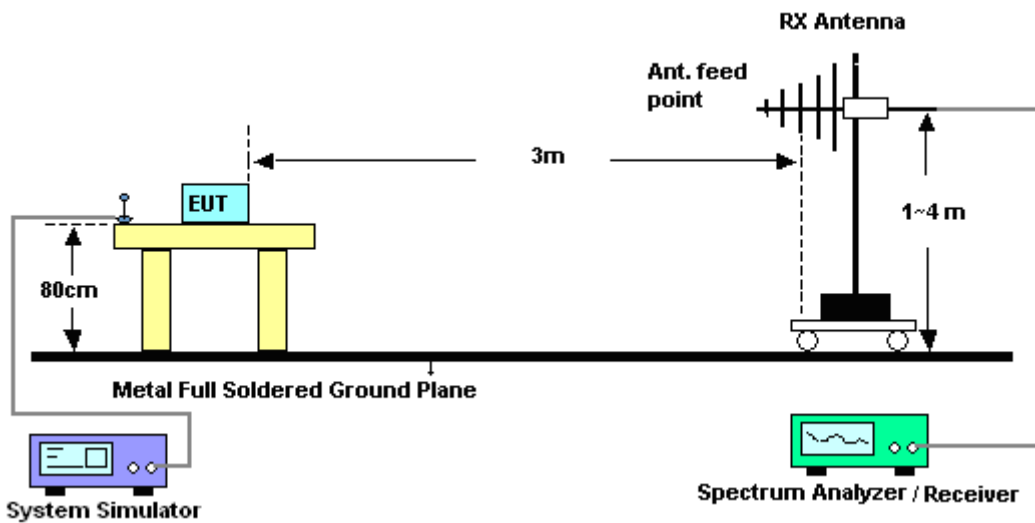
4 Radiated Test Items

4.1 Measuring Instruments

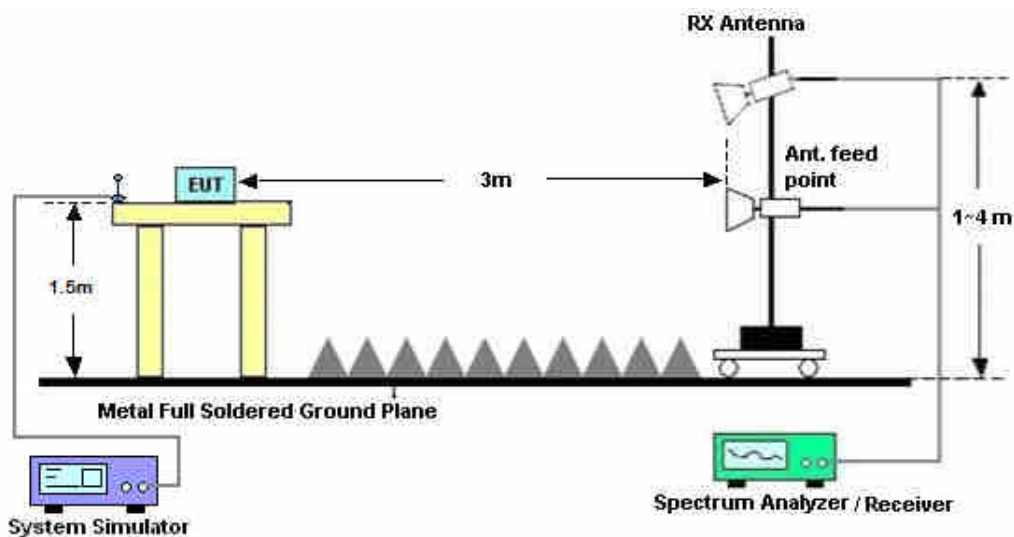
See list of measuring instruments of this test report.

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, 38, 41

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

For LTE Band 12, 17

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. Offset has included the duty factor for LTE Band 38/41. Duty factor = $10 \log (1/x)$, where x is the measured duty cycle
8. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
9. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
10. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
11. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
12. $ERP \text{ (dBm)} = EIRP - 2.15$
13. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10 \log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10 \log(P)] \text{ (dB)}$



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

14. For Band 7, 38, 41:

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

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

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



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	9kHz~40GHz	May 07, 2016 Apr. 20, 2017	Apr. 04, 2017~ May 31, 2017	May 06, 2017 Apr. 19, 2018	Conducted (TH01-SZ)
Radio Communication Analyzer	Anritsu	MT8820C	6201563777	2G/3G/4G (CDMA)	Jan. 03, 2017	Apr. 04, 2017~ May 31, 2017	Jan. 02, 2018	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 16, 2016	Apr. 04, 2017~ May 31, 2017	Jul. 15, 2017	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Jul. 07, 2016	Apr. 13, 2017~ May 16, 2017	Jul. 06, 2017	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz	Jul. 07, 2016	Apr. 13, 2017~ May 16, 2017	Jul. 06, 2017	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	May 21, 2016	Apr. 13, 2017~ May 16, 2017	May 20, 2017	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Jul. 07, 2016	Apr. 13, 2017~ May 16, 2017	Jul. 06, 2017	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Aug. 10, 2016	Apr. 13, 2017~ May 16, 2017	Aug. 09, 2017	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102210	0.01Hz ~3000MHz	Oct. 11, 2016	Apr. 13, 2017~ May 16, 2017	Oct. 10, 2017	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Jan. 06, 2017	Apr. 13, 2017~ May 16, 2017	Jan. 05, 2018	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 16, 2016	Apr. 13, 2017~ May 16, 2017	Jul. 15, 2017	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Apr. 13, 2017~ May 16, 2017	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Apr. 13, 2017~ May 16, 2017	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Apr. 13, 2017~ May 16, 2017	NCR	Radiation (03CH03-SZ)

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% ($U = 2U_c(y)$)	3.0dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.6dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.8dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.29	22.15	22.36
20	1	49		21.94	22.12	22.27
20	1	99		22.10	22.13	22.35
20	50	0		21.14	21.26	21.53
20	50	24		21.09	21.22	21.39
20	50	50		21.06	21.19	21.37
20	100	0		21.10	21.27	21.41
20	1	0	16-QAM	21.57	21.46	21.82
20	1	49		21.21	21.38	21.49
20	1	99		21.40	21.48	21.59
20	50	0		20.17	20.32	20.55
20	50	24		20.11	20.29	20.43
20	50	50		20.07	20.25	20.36
20	100	0		20.11	20.26	20.41
20	1	0	64QAM	20.59	20.38	20.63
20	1	49		20.26	20.36	20.00
20	1	99		20.34	20.39	20.43
20	50	0		19.25	19.11	19.45
20	50	24		19.17	19.16	19.27
20	50	50		19.16	19.15	19.25
20	100	0		19.18	19.20	19.31
15	1	0	QPSK	22.03	22.02	22.31
15	1	37		21.90	22.08	22.23
15	1	74		21.92	22.06	22.27
15	36	0		21.08	21.26	21.42
15	36	20		21.02	21.24	21.37
15	36	39		21.01	21.20	21.34
15	75	0		21.05	21.24	21.38



15	1	0	16-QAM	21.35	21.40	21.80
15	1	37		21.20	21.37	21.50
15	1	74		21.21	21.35	21.54
15	36	0		20.09	20.29	20.40
15	36	20		20.04	20.24	20.38
15	36	39		20.03	20.21	20.38
15	75	0		20.06	20.25	20.39
15	1	0	64QAM	20.31	20.04	20.67
15	1	37		20.17	20.35	20.24
15	1	74		20.16	20.25	20.41
15	36	0		19.04	19.06	19.28
15	36	20		19.05	19.16	19.27
15	36	39		19.02	19.12	19.18
15	75	0		19.04	19.17	19.25



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.21	21.97	22.25
10	1	25		21.94	22.14	22.28
10	1	49		22.14	22.33	22.28
10	25	0		21.02	21.24	21.35
10	25	12		21.01	21.23	21.32
10	25	25		20.99	21.19	21.32
10	50	0		21.01	21.23	21.35
10	1	0	16-QAM	21.47	21.36	21.54
10	1	25		21.19	21.36	21.51
10	1	49		21.39	21.57	21.52
10	25	0		20.04	20.26	20.36
10	25	12		20.06	20.24	20.35
10	25	25		20.00	20.19	20.33
10	50	0		20.06	20.23	20.37
10	1	0	64QAM	20.43	20.13	20.19
10	1	25		20.35	20.24	20.40
10	1	49		20.29	20.40	20.32
10	25	0		19.03	19.10	19.21
10	25	12		18.98	19.17	19.25
10	25	25		18.98	19.12	19.20
10	50	0		19.05	19.13	19.23
5	1	0	QPSK	21.99	22.17	22.30
5	1	12		21.89	22.14	22.23
5	1	24		21.91	22.17	22.26
5	12	0		21.00	21.20	21.33
5	12	7		21.01	21.19	21.35
5	12	13		20.96	21.18	21.30
5	25	0		20.99	21.19	21.32
5	1	0	16-QAM	21.22	21.41	21.53
5	1	12		21.18	21.39	21.48
5	1	24		21.13	21.37	21.49
5	12	0		20.01	20.22	20.37
5	12	7		20.02	20.24	20.34



5	12	13		20.00	20.18	20.30
5	25	0		20.01	20.20	20.31
5	1	0	64QAM	20.18	20.23	20.20
5	1	12		20.10	20.12	20.02
5	1	24		20.15	20.29	20.15
5	12	0		19.00	19.08	18.98
5	12	7		19.00	19.10	18.99
5	12	13		18.95	19.05	18.95
5	25	0		18.97	19.04	18.95



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	21.92	22.11	22.26
3	1	8		21.93	22.15	22.29
3	1	14		21.89	22.12	22.21
3	8	0		20.96	21.18	21.30
3	8	4		20.97	21.19	21.33
3	8	7		20.94	21.17	21.29
3	15	0		20.94	21.17	21.30
3	1	0	16-QAM	21.17	21.34	21.45
3	1	8		21.15	21.37	21.51
3	1	14		21.13	21.38	21.48
3	8	0		20.03	20.23	20.38
3	8	4		20.03	20.27	20.41
3	8	7		20.01	20.22	20.36
3	15	0		19.99	20.22	20.33
3	1	0	64QAM	20.16	20.22	20.36
3	1	8		20.11	20.17	20.45
3	1	14		20.10	20.16	20.32
3	8	0		18.95	19.03	19.14
3	8	4		18.96	19.05	19.18
3	8	7		18.92	19.02	19.20
3	15	0		18.95	19.07	19.20
1.4	1	0	QPSK	21.80	22.03	22.17
1.4	1	3		21.90	22.08	22.20
1.4	1	5		21.79	22.04	22.15
1.4	3	0		21.87	22.16	22.26
1.4	3	1		21.93	22.18	22.28
1.4	3	3		21.86	22.14	22.24
1.4	6	0		20.90	21.12	21.23
1.4	1	0	16-QAM	21.08	21.33	21.40
1.4	1	3		21.12	21.35	21.50
1.4	1	5		21.07	21.25	21.41
1.4	3	0		20.90	21.12	21.23
1.4	3	1		20.96	21.15	21.28



1.4	3	3		20.91	21.09	21.23
1.4	6	0		19.94	20.20	20.30
1.4	1	0	64QAM	20.02	20.10	20.30
1.4	1	3		20.05	20.19	20.32
1.4	1	5		20.03	20.07	20.26
1.4	3	0		19.87	19.97	20.10
1.4	3	1		19.97	20.05	20.22
1.4	3	3		19.92	19.99	20.17
1.4	6	0		18.91	19.03	19.12



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.83	22.84	22.79
20	1	49		22.67	22.56	22.52
20	1	99		22.54	22.42	22.49
20	50	0		21.79	21.81	21.76
20	50	24		21.74	21.64	21.60
20	50	50		21.59	21.59	21.55
20	100	0		21.76	21.77	21.61
20	1	0	16-QAM	21.78	21.93	21.91
20	1	49		21.60	21.57	21.72
20	1	99		21.50	21.60	21.75
20	50	0		20.49	20.49	20.58
20	50	24		20.43	20.42	20.51
20	50	50		20.41	20.40	20.46
20	100	0		20.42	20.52	20.53
20	1	0	64QAM	20.86	20.83	20.68
20	1	49		20.80	20.60	20.59
20	1	99		20.64	20.48	20.53
20	50	0		19.71	19.50	19.52
20	50	24		19.64	19.45	19.37
20	50	50		19.53	19.42	19.41
20	100	0		19.64	19.44	19.42
15	1	0	QPSK	22.66	22.65	22.69
15	1	37		22.41	22.42	22.49
15	1	74		22.43	22.45	22.46
15	36	0		21.45	21.44	21.54
15	36	20		21.41	21.42	21.49
15	36	39		21.34	21.37	21.24
15	75	0		21.40	21.43	21.49
15	1	0	16-QAM	21.56	21.59	21.68
15	1	37		21.41	21.40	21.51
15	1	74		21.33	21.48	21.55
15	36	0		20.26	20.26	20.33



15	36	20		20.20	20.23	20.29
15	36	39		20.17	20.22	20.25
15	75	0		20.22	20.23	20.29
15	1	0	64QAM	20.96	20.77	20.78
15	1	37		20.82	20.52	20.57
15	1	74		20.73	20.60	20.56
15	36	0		19.67	19.46	19.44
15	36	20		19.61	19.47	19.39
15	36	39		19.62	19.41	19.37
15	75	0		19.62	19.41	19.41



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.52	22.54	22.51
10	1	25		22.42	22.45	22.41
10	1	49		22.41	22.45	22.49
10	25	0		21.21	21.25	21.31
10	25	12		21.21	21.19	21.27
10	25	25		21.15	21.16	21.24
10	50	0		21.18	21.22	21.29
10	1	0	16-QAM	21.52	21.53	21.58
10	1	25		21.42	21.43	21.47
10	1	49		21.41	21.41	21.48
10	25	0		20.19	20.25	20.28
10	25	12		20.18	20.22	20.26
10	25	25		20.14	20.18	20.24
10	50	0		20.20	20.20	20.26
10	1	0	64QAM	20.83	20.66	20.53
10	1	25		20.70	20.54	20.57
10	1	49		20.82	20.60	20.48
10	25	0		19.61	19.44	19.40
10	25	12		19.58	19.32	19.35
10	25	25		19.62	19.38	19.37
10	50	0		19.61	19.41	19.43
5	1	0	QPSK	22.54	22.51	22.52
5	1	12		22.42	22.42	22.47
5	1	24		22.42	22.42	22.45
5	12	0		21.16	21.18	21.23
5	12	7		21.17	21.23	21.23
5	12	13		21.13	21.17	21.24
5	25	0		21.14	21.22	21.19
5	1	0	16-QAM	21.38	21.50	21.51
5	1	12		21.35	21.40	21.48
5	1	24		21.38	21.40	21.50
5	12	0		20.17	20.20	20.24
5	12	7		20.20	20.24	20.23



5	12	13		20.15	20.20	20.22
5	25	0		20.15	20.21	20.25
5	1	0	64QAM	20.95	20.57	20.60
5	1	12		20.82	20.51	20.55
5	1	24		20.74	20.61	20.48
5	12	0		19.65	19.42	19.40
5	12	7		19.60	19.41	19.40
5	12	13		19.59	19.40	19.33
5	25	0		19.59	19.40	19.35



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.39	22.44	22.49
3	1	8		22.38	22.41	22.47
3	1	14		22.35	22.41	22.47
3	8	0		21.14	21.18	21.18
3	8	4		21.16	21.19	21.21
3	8	7		21.10	21.17	21.16
3	15	0		21.13	21.18	21.23
3	1	0	16-QAM	21.37	21.44	21.49
3	1	8		21.38	21.44	21.49
3	1	14		21.35	21.45	21.46
3	8	0		20.20	20.23	20.23
3	8	4		20.21	20.24	20.27
3	8	7		20.17	20.21	20.24
3	15	0		20.16	20.17	20.21
3	1	0	64QAM	20.80	20.58	20.48
3	1	8		20.78	20.51	20.46
3	1	14		20.76	20.52	20.49
3	8	0		19.59	19.35	19.35
3	8	4		19.60	19.37	19.33
3	8	7		19.56	19.31	19.29
3	15	0		19.57	19.39	19.34
1.4	1	0	QPSK	22.31	22.38	22.39
1.4	1	3		22.38	22.45	22.49
1.4	1	5		22.31	22.36	22.39
1.4	3	0		22.08	22.07	22.12
1.4	3	1		22.11	22.14	22.21
1.4	3	3		22.07	22.09	22.13
1.4	6	0		21.03	21.07	21.14
1.4	1	0	16-QAM	21.30	21.35	21.39
1.4	1	3		21.37	21.43	21.47
1.4	1	5		21.28	21.33	21.39
1.4	3	0		21.08	21.16	21.14
1.4	3	1		21.11	21.17	21.22



1.4	3	3		21.05	21.12	21.14
1.4	6	0		20.13	20.15	20.22
1.4	1	0	64QAM	20.66	20.49	20.44
1.4	1	3		20.84	20.48	20.51
1.4	1	5		20.67	20.47	20.44
1.4	3	0		20.51	20.32	20.29
1.4	3	1		20.58	20.35	20.32
1.4	3	3		20.52	20.34	20.32
1.4	6	0		19.56	19.31	19.29



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.11	23.18	23.12
10	1	25		23.15	23.16	23.13
10	1	49		23.00	23.12	23.04
10	25	0		22.03	22.27	22.23
10	25	12		22.01	22.23	22.22
10	25	25		21.98	22.14	22.18
10	50	0		22.02	22.21	22.20
10	1	0	16-QAM	22.25	22.37	22.37
10	1	25		22.21	22.40	22.44
10	1	49		22.24	22.43	22.34
10	25	0		21.00	21.19	21.26
10	25	12		21.05	21.19	21.23
10	25	25		20.96	21.14	21.20
10	50	0		21.03	21.17	21.22
10	1	0	64QAM	21.37	21.27	21.14
10	1	25		21.29	21.31	21.17
10	1	49		21.30	21.34	21.12
10	25	0		20.18	20.23	20.04
10	25	12		20.13	20.19	20.04
10	25	25		20.07	20.10	19.94
10	50	0		20.18	20.17	20.05
5	1	0	QPSK	22.94	23.11	23.02
5	1	12		22.90	23.05	23.00
5	1	24		22.89	23.03	22.95
5	12	0		22.00	22.12	22.07
5	12	7		22.00	22.13	22.07
5	12	13		21.94	22.11	22.02
5	25	0		21.98	22.11	22.04
5	1	0	16-QAM	22.20	22.39	22.33
5	1	12		22.20	22.35	22.29
5	1	24		22.17	22.33	22.25
5	12	0		20.99	21.15	21.12
5	12	7		21.01	21.17	21.08



5	12	13		20.97	21.10	21.01
5	25	0		20.99	21.15	21.06
5	1	0	64QAM	21.19	21.12	21.27
5	1	12		21.18	21.12	21.19
5	1	24		21.07	21.09	21.20
5	12	0		20.02	20.01	20.03
5	12	7		20.04	20.04	20.00
5	12	13		20.00	20.02	19.98
5	25	0		19.99	19.96	20.03



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.94	23.06	23.00
3	1	8		22.90	23.03	22.98
3	1	14		22.90	23.05	22.99
3	8	0		21.98	22.09	22.01
3	8	4		22.01	22.12	22.03
3	8	7		21.94	22.11	22.02
3	15	0	16-QAM	21.98	22.11	22.03
3	1	0		22.22	22.36	22.23
3	1	8		22.22	22.36	22.23
3	1	14		22.16	22.28	22.23
3	8	0		21.05	21.20	21.14
3	8	4		21.06	21.21	21.11
3	8	7	64QAM	21.00	21.15	21.09
3	15	0		21.02	21.14	21.07
3	1	0		21.12	21.12	21.15
3	1	8		21.08	21.07	21.17
3	1	14		21.05	21.05	21.12
3	8	0		19.96	19.98	19.95
3	8	4	QPSK	19.95	19.96	19.99
3	8	7		19.93	19.93	19.96
3	15	0		19.94	19.95	19.93
1.4	1	0		22.86	23.01	22.88
1.4	1	3		22.92	23.06	22.95
1.4	1	5		22.83	22.95	22.88
1.4	3	0	16-QAM	22.88	23.02	22.95
1.4	3	1		22.94	23.09	22.99
1.4	3	3		22.89	23.05	22.93
1.4	6	0		21.93	22.03	21.96
1.4	1	0		22.14	22.29	22.20
1.4	1	3		22.19	22.35	22.26
1.4	1	5	16-QAM	22.10	22.25	22.16
1.4	3	0		21.93	22.07	21.94
1.4	3	1		21.99	22.09	22.01



1.4	3	3		21.89	22.04	21.94
1.4	6	0		21.00	21.09	21.06
1.4	1	0	64QAM	21.09	21.05	21.07
1.4	1	3		21.14	21.09	21.13
1.4	1	5		21.03	21.04	21.09
1.4	3	0		20.94	20.91	20.94
1.4	3	1		20.96	20.97	20.98
1.4	3	3		20.95	20.89	20.90
1.4	6	0		19.92	19.88	19.92



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.32	22.26	22.37
20	1	49		22.07	22.24	22.17
20	1	99		22.11	22.15	22.23
20	50	0		21.30	21.30	21.33
20	50	24		21.18	21.24	21.28
20	50	50		21.20	21.18	21.26
20	100	0		21.16	21.31	21.32
20	1	0	16-QAM	21.83	21.41	21.20
20	1	49		21.30	21.38	21.07
20	1	99		21.54	21.24	21.15
20	50	0		20.17	20.34	20.32
20	50	24		20.02	20.31	20.32
20	50	50		20.14	20.13	20.32
20	100	0		20.00	20.29	20.30
20	1	0	64QAM	20.52	20.46	20.23
20	1	49		20.20	20.08	20.00
20	1	99		20.12	20.05	19.92
20	50	0		19.21	19.13	18.90
20	50	24		18.61	18.50	18.93
20	50	50		18.54	18.47	18.89
20	100	0		18.59	18.96	18.89
15	1	0	QPSK	22.11	22.35	22.36
15	1	37		21.82	22.20	22.19
15	1	74		21.89	22.15	22.24
15	36	0		21.16	21.33	21.32
15	36	20		21.08	21.26	21.31
15	36	39		21.00	21.16	21.28
15	75	0		21.00	21.27	21.25
15	1	0	16-QAM	21.41	21.84	21.94
15	1	37		21.13	21.78	21.74
15	1	74		21.47	21.59	21.72
15	36	0		20.15	20.32	20.44



15	36	20		20.05	20.29	20.41
15	36	39		19.93	20.20	20.30
15	75	0		20.00	20.36	20.38
15	1	0	64QAM	20.57	20.34	20.21
15	1	37		20.21	20.08	19.98
15	1	74		20.19	20.10	19.94
15	36	0		19.28	19.07	18.90
15	36	20		19.12	19.03	18.86
15	36	39		19.08	18.96	18.84
15	75	0		19.09	19.00	18.84



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.17	22.32	22.32
10	1	25		22.10	22.32	22.23
10	1	49		21.99	22.12	22.25
10	25	0		21.13	21.30	21.26
10	25	12		21.07	21.32	21.34
10	25	25		20.96	21.27	21.29
10	50	0		21.09	21.27	21.22
10	1	0	16-QAM	21.52	21.78	21.46
10	1	25		21.42	21.73	21.44
10	1	49		21.28	21.65	21.39
10	25	0		20.12	20.21	20.33
10	25	12		20.09	20.24	20.46
10	25	25		19.95	20.20	20.35
10	50	0		20.03	20.22	20.31
10	1	0	64QAM	20.36	20.26	20.09
10	1	25		20.32	20.12	20.05
10	1	49		20.24	20.13	19.67
10	25	0		19.24	19.01	18.89
10	25	12		19.19	19.00	18.95
10	25	25		19.09	18.94	18.85
10	50	0		19.23	19.00	18.95
5	1	0	QPSK	22.09	22.22	22.20
5	1	12		22.06	22.26	22.25
5	1	24		22.02	22.14	22.15
5	12	0		21.09	21.21	21.31
5	12	7		21.05	21.26	21.34
5	12	13		21.11	21.29	21.23
5	25	0		21.08	21.21	21.21
5	1	0	16-QAM	21.19	21.39	21.78
5	1	12		21.17	21.43	21.70
5	1	24		21.13	21.63	21.68
5	12	0		20.11	20.29	20.35
5	12	7		20.11	20.33	20.30



5	12	13		20.07	20.27	20.29
5	25	0		19.96	20.27	20.35
5	1	0	64QAM	20.44	20.23	20.11
5	1	12		20.40	20.17	20.05
5	1	24		20.35	20.04	19.99
5	12	0		19.25	19.06	18.93
5	12	7		19.23	19.04	18.95
5	12	13		19.22	19.40	18.88
5	25	0		19.20	18.99	18.89



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.13	22.96	22.95
10	1	25		22.91	22.97	23.03
10	1	49		23.11	23.01	22.96
10	25	0		22.16	22.07	22.05
10	25	12		22.09	22.05	22.04
10	25	25		22.12	22.06	22.04
10	50	0		22.09	22.07	22.06
10	1	0	16-QAM	22.18	22.11	22.44
10	1	25		22.13	22.20	22.46
10	1	49		22.21	22.45	22.42
10	25	0		21.04	20.95	21.11
10	25	12		21.00	21.13	21.15
10	25	25		20.97	21.06	21.07
10	50	0		21.02	21.06	21.08
10	1	0	64QAM	21.19	21.18	21.04
10	1	25		21.08	21.01	20.98
10	1	49		21.00	20.91	20.91
10	25	0		19.99	19.95	19.92
10	25	12		20.03	19.93	19.88
10	25	25		19.92	19.87	19.82
10	50	0		19.97	19.95	19.90
5	1	0	QPSK	23.00	22.96	22.87
5	1	12		23.04	23.04	22.82
5	1	24		22.96	22.98	22.84
5	12	0		22.09	22.07	22.02
5	12	7		22.05	22.07	22.05
5	12	13		21.98	22.07	22.01
5	25	0		21.99	22.06	21.99
5	1	0	16-QAM	22.44	22.44	22.17
5	1	12		22.41	22.48	22.17
5	1	24		22.41	22.43	22.13
5	12	0		21.00	21.05	20.99



5	12	7		21.00	21.10	21.08
5	12	13		20.98	21.06	20.87
5	25	0		21.00	21.12	20.94
5	1	0	64QAM	21.19	21.12	21.14
5	1	12		21.19	21.07	21.06
5	1	24		21.15	21.04	20.99
5	12	0		20.09	20.02	19.93
5	12	7		20.09	19.97	19.90
5	12	13		20.00	19.90	19.87
5	25	0		20.05	19.95	19.90



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.98	22.88	22.83
3	1	8		22.96	22.93	22.74
3	1	14		22.94	22.93	22.77
3	8	0		22.09	22.05	21.89
3	8	4		21.99	22.06	21.96
3	8	7		21.90	22.01	21.88
3	15	0		21.94	22.02	21.89
3	1	0	16-QAM	22.15	22.15	22.17
3	1	8		22.10	22.17	22.07
3	1	14		22.03	22.22	22.13
3	8	0		21.01	20.99	20.93
3	8	4		21.04	20.91	21.01
3	8	7		21.09	20.95	20.95
3	15	0		20.96	21.06	20.89
3	1	0	64QAM	21.23	21.09	21.03
3	1	8		21.21	21.12	20.99
3	1	14		21.50	21.07	21.00
3	8	0		20.04	19.93	19.88
3	8	4		20.07	19.96	19.86
3	8	7		19.99	19.88	19.87
3	15	0		20.03	19.90	19.85
1.4	1	0	QPSK	22.99	22.94	22.72
1.4	1	3		23.01	23.01	22.90
1.4	1	5		22.96	22.86	22.79
1.4	3	0		22.94	22.90	22.84
1.4	3	1		23.04	22.95	22.84
1.4	3	3		22.99	22.91	22.78
1.4	6	0		21.96	21.89	21.79
1.4	1	0	16-QAM	22.46	22.04	21.63
1.4	1	3		22.42	22.05	21.68
1.4	1	5		22.49	22.02	21.69
1.4	3	0		22.03	21.95	21.83
1.4	3	1		22.08	21.93	21.94



1.4	3	3		21.94	21.94	21.86
1.4	6	0		20.90	20.92	20.74
1.4	1	0	64QAM	21.14	21.03	20.98
1.4	1	3		21.17	21.06	20.99
1.4	1	5		21.10	20.98	20.93
1.4	3	0		20.98	20.89	20.81
1.4	3	1		21.04	20.94	20.83
1.4	3	3		20.99	20.87	20.75
1.4	6	0		19.98	19.88	19.81



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.18	22.81	22.80
10	1	25		22.88	22.67	22.59
10	1	49		22.83	22.61	22.62
10	25	0		21.95	21.93	21.91
10	25	12		21.89	21.90	21.81
10	25	25		21.78	21.72	21.78
10	50	0		21.93	21.86	21.70
10	1	0	16-QAM	22.34	21.98	22.08
10	1	25		22.25	21.95	21.89
10	1	49		22.21	21.91	21.87
10	25	0		20.94	20.95	20.91
10	25	12		20.93	20.98	20.78
10	25	25		20.77	20.75	20.71
10	50	0		20.92	20.92	20.78
10	1	0	64QAM	21.24	21.26	21.18
10	1	25		21.04	21.10	21.16
10	1	49		21.05	21.03	21.01
10	25	0		20.03	20.05	20.03
10	25	12		19.97	20.03	19.97
10	25	25		19.93	19.92	19.94
10	50	0		20.02	20.01	20.00
5	1	0	QPSK	23.12	23.15	22.91
5	1	12		23.08	23.07	22.96
5	1	24		23.09	23.00	22.92
5	12	0		22.24	22.14	22.07
5	12	7		22.22	22.08	21.99
5	12	13		22.14	22.06	22.04
5	25	0		22.18	22.03	22.05
5	1	0	16-QAM	22.48	22.44	22.22
5	1	12		22.49	22.42	22.20
5	1	24		22.40	22.49	22.09
5	12	0		21.32	21.15	21.02
5	12	7		21.19	21.01	21.05



5	12	13		21.15	21.04	20.92
5	25	0		21.21	21.12	21.02
5	1	0	64QAM	21.21	21.18	21.15
5	1	12		21.13	21.14	21.09
5	1	24		21.11	21.00	20.97
5	12	0		20.10	20.01	19.96
5	12	7		20.20	20.03	19.99
5	12	13		20.03	19.96	19.93
5	25	0		20.04	19.98	19.94



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.35	22.34	22.37
20	1	49		22.01	22.08	22.35
20	1	99		22.17	22.16	22.35
20	50	0		21.21	21.38	21.49
20	50	24		21.11	21.32	21.32
20	50	50		21.18	21.18	21.38
20	100	0		21.15	21.34	21.38
20	1	0	16-QAM	21.61	21.90	21.86
20	1	49		21.26	21.64	21.71
20	1	99		21.56	21.76	21.88
20	50	0		20.31	20.43	20.51
20	50	24		20.25	20.33	20.42
20	50	50		20.13	20.17	20.35
20	100	0		20.24	20.37	20.41
20	1	0	64QAM	20.65	20.67	20.82
20	1	49		20.31	20.28	20.58
20	1	99		20.48	20.55	20.59
20	50	0		19.26	19.24	19.53
20	50	24		19.23	19.23	19.48
20	50	50		19.21	19.22	19.46
20	100	0		19.26	19.23	19.43
15	1	0	QPSK	22.17	22.35	22.32
15	1	37		22.05	22.22	22.23
15	1	74		22.10	22.20	22.33
15	36	0		21.24	21.39	21.48
15	36	20		21.21	21.40	21.36
15	36	39		21.14	21.21	21.29
15	75	0		21.20	21.38	21.37
15	1	0	16-QAM	21.31	21.56	21.97
15	1	37		21.20	21.42	21.73
15	1	74		21.24	21.34	21.76



15	36	0		20.16	20.43	20.50
15	36	20		20.13	20.38	20.38
15	36	39		20.13	20.22	20.36
15	75	0		20.25	20.35	20.40
15	1	0	64QAM	20.52	20.53	20.74
15	1	37		20.34	20.33	20.59
15	1	74		20.35	20.31	20.68
15	36	0		19.21	19.23	19.50
15	36	20		19.19	19.21	19.46
15	36	39		19.17	19.20	19.45
15	75	0		19.20	19.22	19.48



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.32	22.34	22.36
10	1	25		21.93	22.36	22.36
10	1	49		22.27	22.32	22.30
10	25	0		21.16	21.34	21.33
10	25	12		21.17	21.30	21.29
10	25	25		21.14	21.20	21.36
10	50	0		21.14	21.33	21.30
10	1	0	16-QAM	21.68	21.89	21.93
10	1	25		21.39	21.55	21.80
10	1	49		21.53	21.69	21.82
10	25	0		20.16	20.29	20.26
10	25	12		20.19	20.35	20.37
10	25	25		20.08	20.16	20.42
10	50	0		20.13	20.35	20.33
10	1	0	64QAM	20.69	20.62	20.65
10	1	25		20.42	20.35	20.62
10	1	49		20.51	20.59	19.61
10	25	0		19.17	19.45	19.46
10	25	12		19.20	19.20	19.45
10	25	25		19.19	19.20	19.44
10	50	0		19.18	19.23	19.51
5	1	0	QPSK	22.29	22.29	22.26
5	1	12		22.14	22.26	22.21
5	1	24		22.08	22.21	22.21
5	12	0		21.15	21.34	21.33
5	12	7		21.12	21.30	21.38
5	12	13		21.08	21.35	21.32
5	25	0		21.09	21.30	21.36
5	1	0	16-QAM	21.18	21.50	21.77
5	1	12		21.12	21.41	21.80
5	1	24		21.11	21.36	21.80
5	12	0		20.12	20.38	20.40
5	12	7		20.15	20.40	20.40



5	12	13		20.07	20.34	20.34
5	25	0		20.17	20.24	20.39
5	1	0	64QAM	20.43	20.43	20.64
5	1	12		20.27	20.29	20.58
5	1	24		20.31	20.35	20.63
5	12	0		19.18	19.20	19.47
5	12	7		19.22	19.21	19.48
5	12	13		19.20	19.19	19.44
5	25	0		19.16	19.21	19.48



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	21.98	22.24	22.25
3	1	8		22.19	22.13	22.35
3	1	14		22.16	22.14	22.34
3	8	0		21.07	21.31	21.35
3	8	4		21.17	21.37	21.31
3	8	7		21.14	21.34	21.34
3	15	0		21.07	21.29	21.34
3	1	0	16-QAM	21.32	21.63	21.72
3	1	8		21.26	21.68	21.66
3	1	14		21.33	21.55	21.60
3	8	0		20.04	20.38	20.43
3	8	4		20.04	20.42	20.39
3	8	7		20.08	20.35	20.42
3	15	0		20.16	20.23	20.43
3	1	0	64QAM	20.32	20.39	20.60
3	1	8		20.30	20.31	20.59
3	1	14		20.28	20.29	20.66
3	8	0		19.14	19.16	19.42
3	8	4		19.17	19.18	19.44
3	8	7		19.13	19.15	19.41
3	15	0		19.14	19.18	19.42
1.4	1	0	QPSK	21.92	22.20	22.25
1.4	1	3		22.00	22.33	22.29
1.4	1	5		21.98	22.22	22.15
1.4	3	0		22.02	22.27	22.26
1.4	3	1		22.07	22.33	22.34
1.4	3	3		22.16	22.20	22.23
1.4	6	0		21.01	21.29	21.23
1.4	1	0	16-QAM	20.92	21.24	21.42
1.4	1	3		21.21	21.28	21.45
1.4	1	5		20.96	21.29	21.30
1.4	3	0		21.01	21.12	21.32
1.4	3	1		21.03	21.20	21.42



1.4	3	3		20.93	21.09	21.36
1.4	6	0		20.04	20.35	20.41
1.4	1	0	64QAM	20.21	20.23	20.52
1.4	1	3		20.32	20.29	20.43
1.4	1	5		20.22	20.26	20.49
1.4	3	0		20.09	20.11	20.38
1.4	3	1		20.13	20.18	20.49
1.4	3	3		20.06	20.10	20.37
1.4	6	0		19.09	19.08	19.39



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.15	23.12	23.21
15	1	37		23.37	23.34	23.31
15	1	74		23.18	23.15	23.10
15	36	0		22.25	22.22	22.21
15	36	20		22.29	22.26	22.23
15	36	39		22.10	22.07	22.15
15	75	0		22.22	22.19	22.20
15	1	0	16-QAM	22.66	22.63	22.36
15	1	37		22.59	22.56	22.41
15	1	74		22.43	22.40	22.29
15	36	0		21.30	21.27	21.31
15	36	20		21.29	21.26	21.21
15	36	39		21.10	21.07	21.22
15	75	0		21.17	21.14	21.27
15	1	0	64QAM	21.15	21.12	21.17
15	1	37		21.02	20.99	21.18
15	1	74		20.98	20.95	20.98
15	36	0		19.94	19.91	19.95
15	36	20		19.97	19.94	19.90
15	36	39		19.89	19.86	19.92
15	75	0		19.88	19.85	19.97



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.04	23.26	23.32
10	1	25		23.12	23.17	23.27
10	1	49		23.06	23.04	23.20
10	25	0		22.00	22.11	22.19
10	25	12		22.04	22.20	22.25
10	25	25		21.98	22.13	22.21
10	50	0		22.11	22.17	22.18
10	1	0	16-QAM	22.57	22.34	22.23
10	1	25		22.50	22.23	22.16
10	1	49		22.58	22.20	22.01
10	25	0		21.04	21.22	21.27
10	25	12		21.18	21.26	21.21
10	25	25		20.90	21.10	21.20
10	50	0		21.06	21.11	21.26
10	1	0	64QAM	21.20	20.97	21.09
10	1	25		21.08	20.96	21.08
10	1	49		20.99	20.93	20.97
10	25	0		20.01	19.91	19.97
10	25	12		20.00	19.94	19.93
10	25	25		19.90	19.86	19.91
10	50	0		19.96	19.88	19.96
5	1	0	QPSK	22.97	23.15	23.09
5	1	12		23.03	23.09	23.02
5	1	24		22.94	23.04	23.01
5	12	0		22.08	22.09	22.16
5	12	7		22.08	22.13	22.19
5	12	13		21.99	22.08	22.10
5	25	0		22.07	22.13	22.23
5	1	0	16-QAM	22.50	22.66	22.35
5	1	12		22.54	22.64	22.28
5	1	24		22.59	22.56	22.34
5	12	0		21.07	21.09	21.09
5	12	7		21.08	21.09	21.18



5	12	13		20.96	21.10	21.05
5	25	0		21.06	21.17	21.23
5	1	0	64QAM	21.14	20.99	21.12
5	1	12		21.09	20.95	21.06
5	1	24		21.07	20.98	20.97
5	12	0		20.00	19.88	19.95
5	12	7		20.00	19.86	19.92
5	12	13		19.98	19.90	19.91
5	25	0		19.96	19.79	19.90



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.97	23.03	23.19
3	1	8		23.07	23.10	23.24
3	1	14		22.97	23.08	23.13
3	8	0		21.98	22.06	22.17
3	8	4		22.02	22.12	22.15
3	8	7		22.00	22.04	22.17
3	15	0		22.03	22.09	22.10
3	1	0	16-QAM	22.54	22.61	22.24
3	1	8		22.46	22.21	22.05
3	1	14		22.53	22.14	21.97
3	8	0		21.12	21.24	21.33
3	8	4		21.17	21.21	21.26
3	8	7		21.13	21.27	21.27
3	15	0		21.04	21.21	21.18
3	1	0	64QAM	21.14	20.97	21.09
3	1	8		21.12	20.93	21.06
3	1	14		21.09	21.02	21.02
3	8	0		19.97	19.80	19.87
3	8	4		19.99	19.84	19.89
3	8	7		19.95	19.74	19.90
3	15	0		19.94	19.78	19.88
1.4	1	0	QPSK	23.05	23.04	23.03
1.4	1	3		22.98	23.10	23.07
1.4	1	5		22.96	22.96	22.97
1.4	3	0		23.01	23.03	23.05
1.4	3	1		23.05	23.09	23.09
1.4	3	3		23.00	23.08	23.06
1.4	6	0		21.93	22.05	22.01
1.4	1	0	16-QAM	22.19	22.46	22.63
1.4	1	3		22.59	22.56	22.67
1.4	1	5		22.12	22.49	22.54
1.4	3	0		22.07	22.00	22.04
1.4	3	1		22.12	22.19	22.08



1.4	3	3		22.05	21.90	21.90
1.4	6	0		21.20	21.02	21.14
1.4	1	0	64QAM	21.06	20.94	20.99
1.4	1	3		21.11	20.92	21.05
1.4	1	5		21.05	20.89	20.99
1.4	3	0		20.92	20.71	20.83
1.4	3	1		20.95	20.80	20.92
1.4	3	3		20.93	20.75	20.85
1.4	6	0		19.95	19.71	19.81



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.63	22.51	22.51
20	1	49		22.38	22.30	22.20
20	1	99		22.45	22.21	22.31
20	50	0		21.73	21.47	21.48
20	50	24		21.59	21.46	21.46
20	50	50		21.60	21.32	21.32
20	100	0		21.50	21.39	21.39
20	1	0	16-QAM	21.88	21.78	21.78
20	1	49		21.73	21.47	21.57
20	1	99		21.81	21.57	21.46
20	50	0		20.58	20.47	20.46
20	50	24		20.60	20.47	20.47
20	50	50		20.61	20.33	20.33
20	100	0		20.60	20.39	20.39
20	1	0	64QAM	20.74	20.77	20.91
20	1	49		20.57	20.61	20.62
20	1	99		20.49	20.56	20.50
20	50	0		19.46	19.61	19.69
20	50	24		19.48	19.54	19.59
20	50	50		19.35	19.44	19.48
20	100	0		19.35	19.49	19.56
15	1	0	QPSK	22.55	22.46	22.43
15	1	37		22.54	22.31	22.31
15	1	74		22.62	22.34	22.25
15	36	0		21.61	21.36	21.36
15	36	20		21.52	21.41	21.41
15	36	39		21.56	21.30	21.30
15	75	0		21.60	21.39	21.39
15	1	0	16-QAM	21.83	21.62	21.73
15	1	37		21.83	21.61	21.61
15	1	74		21.81	21.45	21.99
15	36	0		20.71	20.42	20.42



15	36	20		20.58	20.37	20.38
15	36	39		20.52	20.38	20.27
15	75	0		20.60	20.40	20.40
15	1	0	64QAM	20.69	20.71	20.88
15	1	37		20.46	20.61	20.69
15	1	74		20.48	20.54	20.59
15	36	0		19.40	19.55	19.62
15	36	20		19.34	19.48	19.56
15	36	39		19.35	19.41	19.43
15	75	0		19.36	19.50	19.57



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.45	22.29	22.39
10	1	25		22.38	22.19	22.19
10	1	49		22.50	22.30	22.40
10	25	0		21.59	21.43	21.43
10	25	12		21.52	21.44	21.34
10	25	25		21.45	21.36	21.37
10	50	0		21.53	21.35	21.36
10	1	0	16-QAM	21.89	21.67	21.67
10	1	25		21.74	21.56	21.56
10	1	49		21.75	21.55	21.56
10	25	0		20.62	20.56	20.47
10	25	12		20.65	20.38	20.48
10	25	25		20.47	20.29	20.39
10	50	0		20.65	20.37	20.37
10	1	0	64QAM	20.60	20.76	20.81
10	1	25		20.50	20.63	20.66
10	1	49		20.38	20.53	20.53
10	25	0		19.41	19.56	19.51
10	25	12		19.40	19.54	19.58
10	25	25		19.30	19.43	19.48
10	50	0		19.36	19.49	19.54
5	1	0	QPSK	22.46	22.43	22.43
5	1	12		22.38	22.17	22.27
5	1	24		22.42	22.34	22.15
5	12	0		21.56	21.47	21.36
5	12	7		21.64	21.44	21.34
5	12	13		21.67	21.37	21.37
5	25	0		21.65	21.35	21.36
5	1	0	16-QAM	21.77	21.57	21.57
5	1	12		21.84	21.54	21.55
5	1	24		21.79	21.51	21.51
5	12	0		20.67	20.38	20.38
5	12	7		20.65	20.45	20.45



5	12	13		20.67	20.38	20.48
5	25	0		20.69	20.40	20.40
5	1	0	64QAM	20.47	20.56	20.61
5	1	12		20.41	20.52	20.56
5	1	24		20.36	20.46	20.64
5	12	0		19.24	19.38	19.42
5	12	7		19.25	19.37	19.41
5	12	13		19.19	19.34	19.36
5	25	0		19.27	19.36	19.44



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.35	22.36	21.77
20	1	49		22.19	22.31	21.70
20	1	99		22.10	22.32	21.72
20	50	0		21.42	21.44	20.86
20	50	24		21.38	21.47	20.92
20	50	50		21.27	21.40	20.70
20	100	0		21.32	21.42	20.83
20	1	0	16-QAM	21.57	21.63	21.00
20	1	49		21.53	21.67	21.06
20	1	99		21.37	21.58	20.98
20	50	0		20.41	20.44	19.98
20	50	24		20.40	20.48	19.93
20	50	50		20.31	20.32	19.82
20	100	0		20.30	20.43	19.94
20	1	0	64QAM	20.53	20.77	20.30
20	1	49		20.44	20.53	20.17
20	1	99		20.42	20.41	20.09
20	50	0		19.33	19.43	19.19
20	50	24		19.32	19.40	19.13
20	50	50		19.25	19.32	19.01
20	100	0		19.29	19.40	19.07
15	1	0	QPSK	22.13	22.16	21.69
15	1	37		22.01	22.13	21.57
15	1	74		22.09	22.12	21.54
15	36	0		21.21	21.29	20.71
15	36	20		21.24	21.22	20.65
15	36	39		21.12	21.18	20.58
15	75	0		21.18	21.30	20.71
15	1	0	16-QAM	21.48	21.54	20.98
15	1	37		21.38	21.43	20.86
15	1	74		21.37	21.41	20.73
15	36	0		20.24	20.25	19.78



15	36	20		20.18	20.19	19.72
15	36	39		20.18	20.15	19.65
15	75	0		20.16	20.30	19.71
15	1	0	64QAM	20.53	20.53	20.41
15	1	37		20.44	20.55	20.20
15	1	74		20.46	20.43	20.14
15	36	0		19.32	19.39	19.14
15	36	20		19.29	19.40	19.30
15	36	39		19.25	19.31	19.24
15	75	0		19.35	19.45	19.15



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.18	22.24	22.19
10	1	25		22.13	22.22	21.62
10	1	49		21.93	22.06	21.93
10	25	0		21.12	21.17	20.85
10	25	12		21.15	21.28	20.66
10	25	25		21.06	21.16	20.68
10	50	0		21.15	21.28	20.83
10	1	0	16-QAM	21.41	21.50	21.26
10	1	25		21.38	21.49	20.89
10	1	49		21.27	21.32	21.28
10	25	0		20.24	20.41	19.88
10	25	12		20.17	20.31	19.80
10	25	25		20.17	20.29	19.91
10	50	0		20.14	20.29	19.85
10	1	0	64QAM	20.48	20.58	19.98
10	1	25		20.42	20.57	20.21
10	1	49		20.45	20.46	20.12
10	25	0		19.34	19.47	19.04
10	25	12		19.33	19.48	19.24
10	25	25		19.30	19.39	19.15
10	50	0		19.30	19.43	19.10
5	1	0	QPSK	22.08	22.28	22.08
5	1	12		22.09	22.20	22.08
5	1	24		21.95	22.03	21.84
5	12	0		21.15	21.20	21.18
5	12	7		21.17	21.28	21.17
5	12	13		21.14	21.21	21.12
5	25	0		21.18	21.30	21.08
5	1	0	16-QAM	21.40	21.41	21.22
5	1	12		21.35	21.36	21.25
5	1	24		21.40	21.40	21.21
5	12	0		20.15	20.32	20.19



5	12	7		20.17	20.29	20.20
5	12	13		20.13	20.21	20.12
5	25	0		20.21	20.33	20.13
5	1	0	64QAM	20.46	20.61	20.97
5	1	12		20.48	20.59	20.75
5	1	24		20.44	20.53	20.66
5	12	0		19.27	19.42	19.56
5	12	7		19.29	19.42	19.57
5	12	13		19.27	19.35	19.51
5	25	0		19.30	19.41	19.60



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.82	22.85	22.70
20	1	49		22.58	22.81	22.40
20	1	99		22.49	22.64	22.43
20	50	0		21.73	21.98	21.70
20	50	24		21.65	21.92	21.52
20	50	50		21.58	21.83	21.46
20	100	0		21.67	21.92	21.49
20	1	0	16-QAM	22.14	22.00	22.01
20	1	49		21.82	21.76	21.84
20	1	99		21.89	21.85	21.87
20	50	0		20.82	20.76	20.80
20	50	24		20.79	20.71	20.71
20	50	50		20.78	20.69	20.75
20	100	0		20.81	20.74	20.73
20	1	0	64QAM	21.08	21.10	21.03
20	1	49		20.85	20.92	20.85
20	1	99		20.90	20.95	20.94
20	50	0		19.82	19.83	19.77
20	50	24		19.79	19.78	19.71
20	50	50		19.80	19.76	19.70
20	100	0		19.79	19.76	19.74
15	1	0	QPSK	22.40	22.54	22.50
15	1	37		22.43	22.59	22.51
15	1	74		22.40	22.51	22.48
15	36	0		21.57	21.70	21.66
15	36	20		21.53	21.66	21.61
15	36	39		21.45	21.59	21.53
15	75	0		21.49	21.65	21.60
15	1	0	16-QAM	22.01	21.98	22.02
15	1	37		21.85	21.79	21.82
15	1	74		21.87	21.83	21.94
15	36	0		20.79	20.78	20.75
15	36	20		20.77	20.72	20.69
15	36	39		20.75	20.69	20.64



15	75	0	64QAM	20.79	20.72	20.74
15	1	0		21.10	21.02	21.05
15	1	37		20.95	20.87	20.86
15	1	74		20.96	20.90	20.88
15	36	0		19.84	19.77	19.76
15	36	20		19.76	19.72	19.72
15	36	39		19.72	19.67	19.69
15	75	0		19.82	19.70	19.71



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.57	22.64	22.53
10	1	25		22.44	22.53	22.45
10	1	49		22.40	22.49	22.32
10	25	0		21.53	21.62	21.40
10	25	12		21.47	21.58	21.40
10	25	25		21.43	21.57	21.34
10	50	0		21.50	21.61	21.39
10	1	0	16-QAM	21.90	21.84	21.90
10	1	25		21.82	21.73	21.84
10	1	49		21.87	21.78	21.83
10	25	0		20.77	20.68	20.76
10	25	12		20.78	20.69	20.74
10	25	25		20.72	20.65	20.67
10	50	0		20.75	20.69	20.70
10	1	0	64QAM	20.98	20.92	20.91
10	1	25		20.90	20.83	20.86
10	1	49		20.87	20.76	20.88
10	25	0		19.74	19.69	19.68
10	25	12		19.76	19.68	19.70
10	25	25		19.71	19.65	19.65
10	50	0		19.77	19.69	19.70
5	1	0	QPSK	22.49	22.54	22.47
5	1	12		22.43	22.52	22.40
5	1	24		22.42	22.50	22.39
5	12	0		21.49	21.58	21.37
5	12	7		21.48	21.55	21.49
5	12	13		21.46	21.57	21.44
5	25	0		21.47	21.58	21.34
5	1	0	16-QAM	21.82	21.81	21.91
5	1	12		21.84	21.78	21.77
5	1	24		21.88	21.76	21.81
5	12	0		20.76	20.68	20.72
5	12	7		20.72	20.64	20.67



5	12	13		20.66	20.62	20.66
5	25	0		20.73	20.67	20.70
5	1	0	64QAM	20.89	20.89	20.88
5	1	12		20.86	20.78	20.79
5	1	24		20.87	20.86	20.85
5	12	0		19.75	19.67	19.71
5	12	7		19.76	19.70	19.73
5	12	13		19.72	19.66	19.67
5	25	0		19.70	19.62	19.66



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.50	22.51	22.47
3	1	8		22.51	22.52	22.48
3	1	14		22.46	22.49	22.44
3	8	0		21.55	21.56	21.53
3	8	4		21.50	21.53	21.50
3	8	7		21.47	21.50	21.45
3	15	0		21.50	21.53	21.46
3	1	0	16-QAM	21.86	21.79	21.83
3	1	8		21.84	21.72	21.79
3	1	14		21.85	21.76	21.84
3	8	0		20.78	20.69	20.69
3	8	4		20.76	20.72	20.70
3	8	7		20.72	20.66	20.67
3	15	0		20.68	20.70	20.66
3	1	0	64QAM	20.85	20.81	20.84
3	1	8		20.83	20.77	20.82
3	1	14		20.81	20.78	20.83
3	8	0		19.68	19.64	19.67
3	8	4		19.75	19.65	19.69
3	8	7		19.65	19.62	19.61
3	15	0		19.71	19.62	19.59
1.4	1	0	QPSK	22.36	22.40	22.36
1.4	1	3		22.47	22.51	22.48
1.4	1	5		22.40	22.44	22.43
1.4	3	0		22.50	22.51	22.47
1.4	3	1		22.43	22.44	22.40
1.4	3	3		22.41	22.44	22.36
1.4	6	0		22.48	22.49	22.45
1.4	1	0	16-QAM	21.46	21.46	21.44
1.4	1	3		21.82	21.79	21.84
1.4	1	5		21.73	21.70	21.77
1.4	3	0		21.71	21.59	21.64
1.4	3	1		21.76	21.72	21.72



1.4	3	3		21.68	21.67	21.66
1.4	6	0		20.60	20.58	20.61
1.4	1	0	64QAM	20.76	20.74	20.75
1.4	1	3		20.85	20.82	20.83
1.4	1	5		20.73	20.75	20.75
1.4	3	0		20.64	20.65	20.66
1.4	3	1		20.69	20.60	20.71
1.4	3	3		20.62	20.59	20.64
1.4	6	0		19.67	19.56	19.62



LTE CA

CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	0	0	1	99	1	22.04
			1	0	0	0	1	22.29
			100	0	0	0	100	21.33
			100	0	100	0	200	21.94
			1	0	1	99	2	15.10
			1	0	1	0	2	17.14
			1	99	1	0	2	22.31
			100	0	1	99	101	17.77
		16QAM	0	0	1	99	1	22.05
			1	0	0	0	1	22.01
			100	0	0	0	100	21.16
			100	0	100	0	200	20.96
			1	0	1	99	2	15.49
			1	0	1	0	2	17.48
			1	99	1	0	2	22.09
			100	0	1	99	101	17.54
		64QAM	0	0	1	99	1	21.04
			1	0	0	0	1	21.50
			100	0	0	0	100	20.20
			100	0	100	0	200	20.53
			1	0	1	99	2	15.37
			1	0	1	0	2	18.15
			1	99	1	0	2	20.55
			100	0	1	99	101	17.59
21001	21199	QPSK	0	0	1	99	1	22.02
			1	0	0	0	1	22.26
			100	0	0	0	100	21.27
			100	0	100	0	200	21.88
			1	0	1	99	2	14.96



			1	0	1	0	2	17.94
			1	99	1	0	2	22.29
			100	0	1	99	101	17.52
		16QAM	0	0	1	99	1	21.93
			1	0	0	0	1	22.09
			100	0	0	0	100	21.29
			100	0	100	0	200	20.95
			1	0	1	99	2	15.41
			1	0	1	0	2	18.21
			1	99	1	0	2	22.11
			100	0	1	99	101	17.52
		64QAM	0	0	1	99	1	21.02
			1	0	0	0	1	21.68
			100	0	0	0	100	20.32
			100	0	100	0	200	20.44
			1	0	1	99	2	15.3
			1	0	1	0	2	18.29
			1	99	1	0	2	20.66
			100	0	1	99	101	17.52
		QPSK	0	0	1	99	1	22.08
			1	0	0	0	1	22.25
			100	0	0	0	100	21.26
			100	0	100	0	200	21.87
			1	0	1	99	2	15.02
			1	0	1	0	2	17.88
			1	99	1	0	2	22.33
			100	0	1	99	101	17.56
		16QAM	0	0	1	99	1	21.91
			1	0	0	0	1	22.00
			100	0	0	0	100	21.17
			100	0	100	0	200	20.90
			1	0	1	99	2	15.31
			1	0	1	0	2	18.10
			1	99	1	0	2	22.04
			100	0	1	99	101	17.53



		64QAM	0	0	1	99	1	20.85
			1	0	0	0	1	21.57
			100	0	0	0	100	20.25
			100	0	100	0	200	20.44
			1	0	1	99	2	15.28
			1	0	1	0	2	18.11
			1	99	1	0	2	20.67
			100	0	1	99	101	17.59



CA_7C								
Combination 20MHz+15MHz (100RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21021	QPSK	1	99	1	0	2	22.30
		16QAM	1	99	1	0	2	22.22
		64QAM	1	99	1	0	2	20.06
21026	21197	QPSK	1	99	1	0	2	22.32
		16QAM	1	99	1	0	2	22.23
		64QAM	1	99	1	0	2	19.77
21201	21372	QPSK	1	0	0	0	1	22.10
		16QAM	1	99	1	0	2	21.91
		64QAM	1	99	1	0	2	19.92
Combination 15MHz+20MHz (75RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20828	20999	QPSK	1	74	1	0	2	22.23
		16QAM	1	74	1	0	2	22.00
		64QAM	1	74	1	0	2	20.12
21003	21174	QPSK	1	74	1	0	2	22.26
		16QAM	1	74	1	0	2	21.82
		64QAM	1	74	1	0	2	19.96
21179	21350	QPSK	1	74	1	0	2	22.13
		16QAM	1	74	1	0	2	21.78
		64QAM	1	74	1	0	2	19.68
Combination 20MHz+10MHz (100RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	20994	QPSK	1	99	1	0	2	22.25
		16QAM	1	99	1	0	2	21.87
		64QAM	1	99	1	0	2	20.02
21051	21195	QPSK	1	99	1	0	2	22.27
		16QAM	1	99	1	0	2	21.88



		64QAM	1	99	1	0	2	19.88
21251	21395	QPSK	1	0	0	0	1	22.25
		16QAM	1	99	1	0	2	21.92
		64QAM	1	99	1	0	2	19.93
Combination 10MHz+20MHz (50RB+100RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20805	20949	QPSK	1	49	1	0	2	22.13
		16QAM	1	49	1	0	2	21.75
		64QAM	1	49	1	0	2	19.76
21006	21150	QPSK	1	49	1	0	2	22.23
		16QAM	1	49	1	0	2	21.88
		64QAM	1	49	1	0	2	19.89
21206	21350	QPSK	1	49	0	0	2	22.27
		16QAM	1	49	1	0	2	21.70
		64QAM	1	49	1	0	2	19.90
Combination 15MHz+15MHz (75RB+75RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20825	20975	QPSK	1	0	0	0	1	22.33
		16QAM	1	0	0	0	1	22.03
		64QAM	1	0	0	0	1	20.12
21025	21175	QPSK	1	0	0	0	1	22.21
		16QAM	1	0	0	0	1	21.88
		64QAM	1	0	0	0	1	20.05
21225	21375	QPSK	1	0	0	0	1	22.19
		16QAM	1	0	0	0	1	21.89
		64QAM	1	0	0	0	1	20.11



CA_41C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	0	0	1	99	1	22.28
			1	0	0	0	1	22.32
			100	0	0	0	100	21.12
			100	0	100	0	200	21.86
			1	0	1	99	2	15.34
			1	0	1	0	2	19.32
			1	99	1	0	2	22.35
			100	0	1	99	101	20.29
		16QAM	0	0	1	99	1	22.20
			1	0	0	0	1	22.07
			100	0	0	0	100	21.03
			100	0	100	0	200	20.81
			1	0	1	99	2	15.62
			1	0	1	0	2	19.58
			1	99	1	0	2	22.24
			100	0	1	99	101	20.4
		64QAM	0	0	1	99	1	20.77
			1	0	0	0	1	20.92
			100	0	0	0	100	19.97
			100	0	100	0	200	20.80
			1	0	1	99	2	15.31
			1	0	1	0	2	19.34
			1	99	1	0	2	20.95
			100	0	1	99	101	20.27
40620	40818	QPSK	0	0	1	99	1	22.21
			1	0	0	0	1	22.23
			100	0	0	0	100	21.15
			100	0	100	0	200	21.70
			1	0	1	99	2	15.30



			1	0	1	0	2	19.39
			1	99	1	0	2	22.31
			100	0	1	99	101	20.20
		16QAM	0	0	1	99	1	21.92
			1	0	0	0	1	22.11
			100	0	0	0	100	20.93
			100	0	100	0	200	20.71
			1	0	1	99	2	15.55
			1	0	1	0	2	19.55
			1	99	1	0	2	22.30
			100	0	1	99	101	20.32
			0	0	1	99	1	20.56
			1	0	0	0	1	20.75
		64QAM	100	0	0	0	100	20.00
			100	0	100	0	200	20.73
			1	0	1	99	2	15.14
			1	0	1	0	2	19.05
			1	99	1	0	2	20.55
			100	0	1	99	101	20.19
		QPSK	0	0	1	99	1	22.15
			1	0	0	0	1	22.22
			100	0	0	0	100	20.99
			100	0	100	0	200	21.49
			1	0	1	99	2	15.02
			1	0	1	0	2	19.11
			1	99	1	0	2	22.27
			100	0	1	99	101	19.96
		16QAM	0	0	1	99	1	21.23
			1	0	0	0	1	21.88
			100	0	0	0	100	20.77
			100	0	100	0	200	20.48
			1	0	1	99	2	15.23
			1	0	1	0	2	19.31
			1	99	1	0	2	22.18
			100	0	1	99	101	20.09



		64QAM	0	0	1	99	1	20.00
			1	0	0	0	1	20.55
			100	0	0	0	100	19.75
			100	0	100	0	200	20.03
			1	0	1	99	2	14.85
			1	0	1	0	2	18.89
			1	99	1	0	2	20.36
			100	0	1	99	101	20.00



CA_41C								
Combination 20MHz+15MHz (100RB+75RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39921	QPSK	1	99	0	0	1	22.21
		16QAM	1	99	0	0	1	22.09
		64QAM	1	99	0	0	1	20.92
40620	40791	QPSK	1	99	1	0	2	22.31
		16QAM	1	99	0	0	1	22.23
		64QAM	1	99	0	0	1	20.93
41344	41515	QPSK	1	99	1	0	2	22.28
		16QAM	1	99	0	0	1	22.21
		64QAM	1	99	0	0	1	21.00
Combination 15MHz+20MHz (75RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39725	39896	QPSK	1	74	1	0	2	22.2
		16QAM	1	74	1	0	2	22.01
		64QAM	1	74	1	0	2	20.45
40620	40791	QPSK	1	74	1	0	2	22.16
		16QAM	1	74	1	0	2	21.88
		64QAM	1	74	1	0	2	20.22
41319	41490	QPSK	1	74	1	0	2	21.93
		16QAM	1	74	1	0	2	21.71
		64QAM	1	74	1	0	2	20.11
Combination 20MHz+10MHz (100RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39894	QPSK	1	99	1	0	2	22.32
		16QAM	1	99	1	0	2	22.23
		64QAM	1	99	1	0	2	21.05
40620	40764	QPSK	1	0	0	0	1	22.26
		16QAM	1	99	1	0	2	22.18



		64QAM	1	99	1	0	2	21.03
41396	41540	QPSK	1	99	1	0	2	22.21
		16QAM	1	99	1	0	2	22.15
		64QAM	1	99	1	0	2	20.95
Combination 10MHz+20MHz (50RB+100RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
39700	39844	QPSK	1	49	1	0	2	22.2
		16QAM	1	49	1	0	2	21.97
		64QAM	1	49	1	0	2	21.12
40620	40764	QPSK	1	49	1	0	2	22.11
		16QAM	1	49	1	0	2	21.82
		64QAM	1	49	1	0	2	20.88
41346	41490	QPSK	1	49	1	0	2	22.18
		16QAM	1	49	1	0	2	21.92
		64QAM	1	49	1	0	2	20.97
Combination 20MHz+5MHz (100RB+25RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
39750	39867	QPSK	1	99	1	0	2	22.22
		16QAM	1	99	1	0	2	22.16
		64QAM	1	99	1	0	2	21.03
40620	40737	QPSK	1	99	1	0	2	22.25
		16QAM	1	99	1	0	2	22.12
		64QAM	1	99	1	0	2	20.98
41448	41565	QPSK	1	99	1	0	2	22.18
		16QAM	1	99	1	0	2	22.07
		64QAM	1	99	1	0	2	20.92
Combination 5MHz+20MHz (25RB+100RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
39675	39792	QPSK	1	24	1	0	2	22.24
		16QAM	1	24	1	0	2	22.12



		64QAM	1	24	1	0	2	21.12
40620	40737	QPSK	1	24	1	0	2	22.24
		16QAM	1	24	1	0	2	22.07
		64QAM	1	24	1	0	2	20.86
41373	41490	QPSK	1	24	1	0	2	22.15
		16QAM	1	24	1	0	2	21.87
		64QAM	1	24	1	0	2	20.79
Combination 15MHz+15MHz (75RB+75RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
39725	39875	QPSK	1	74	1	0	2	22.18
		16QAM	1	74	1	0	2	22.11
		64QAM	1	74	1	0	2	20.88
40620	40770	QPSK	1	74	1	0	2	22.34
		16QAM	1	74	1	0	2	22.23
		64QAM	1	74	1	0	2	21.12
41169	41319	QPSK	1	74	1	0	2	22.28
		16QAM	1	74	1	0	2	22.12
		64QAM	1	74	1	0	2	20.95

ERP/EIRP
<Top Antenna>

LTE Band 2 ($G_T - L_C = -1.0$ dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
(MHz)									
Conducted Power (dBm)	21.93	22.18	22.28	21.93	22.15	22.29	21.99	22.17	22.30
Conducted Power (Watts)	0.1560	0.1652	0.1690	0.1560	0.1641	0.1694	0.1581	0.1648	0.1698
EIRP(dBm)	20.93	21.18	21.28	20.93	21.15	21.29	20.99	21.17	21.30
EIRP(Watts)	0.1239	0.1312	0.1343	0.1239	0.1303	0.1346	0.1256	0.1309	0.1349

LTE Band 2 ($G_T - L_C = -1.0$ dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
(MHz)									
Conducted Power (dBm)	22.14	22.33	22.28	22.03	22.02	22.31	22.29	22.15	22.36
Conducted Power (Watts)	0.1637	0.1710	0.1690	0.1596	0.1592	0.1702	0.1694	0.1641	0.1722
EIRP(dBm)	21.14	21.33	21.28	21.03	21.02	21.31	21.29	21.15	21.36
EIRP(Watts)	0.1300	0.1358	0.1343	0.1268	0.1265	0.1352	0.1346	0.1303	0.1368



LTE Band 2 ($G_T - L_C = -1.0$ dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
(MHz)									
Conducted Power (dBm)	21.12	21.35	21.50	21.15	21.37	21.51	21.22	21.41	21.53
Conducted Power (Watts)	0.1294	0.1365	0.1413	0.1303	0.1371	0.1416	0.1324	0.1384	0.1422
EIRP(dBm)	20.12	20.35	20.50	20.15	20.37	20.51	20.22	20.41	20.53
EIRP(Watts)	0.1028	0.1084	0.1122	0.1035	0.1089	0.1125	0.1052	0.1099	0.1130

LTE Band 2 ($G_T - L_C = -1.0$ dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
(MHz)									
Conducted Power (dBm)	21.39	21.57	21.52	21.35	21.40	21.80	21.57	21.46	21.82
Conducted Power (Watts)	0.1377	0.1435	0.1419	0.1365	0.1380	0.1514	0.1435	0.1400	0.1521
EIRP(dBm)	20.39	20.57	20.52	20.35	20.40	20.80	20.57	20.46	20.82
EIRP(Watts)	0.1094	0.1140	0.1127	0.1084	0.1096	0.1202	0.1140	0.1112	0.1208



LTE Band 2 ($G_T - L_C = -1.0$ dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
(MHz)									
Conducted Power (dBm)	20.05	20.19	20.32	20.16	20.22	20.32	20.18	20.29	20.20
Conducted Power (Watts)	0.1012	0.1045	0.1076	0.1038	0.1052	0.1076	0.1042	0.1069	0.1047
EIRP(dBm)	19.05	19.19	19.32	19.16	19.22	19.32	19.18	19.29	19.20
EIRP(Watts)	0.0804	0.0830	0.0855	0.0824	0.0836	0.0855	0.0828	0.0849	0.0832

LTE Band 2 ($G_T - L_C = -1.0$ dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
(MHz)									
Conducted Power (dBm)	20.43	20.40	20.40	20.31	20.35	20.67	20.59	20.39	20.63
Conducted Power (Watts)	0.1104	0.1096	0.1096	0.1074	0.1084	0.1167	0.1146	0.1094	0.1156
EIRP(dBm)	19.43	19.40	19.40	19.31	19.35	19.67	19.59	19.39	19.63
EIRP(Watts)	0.0877	0.0871	0.0871	0.0853	0.0861	0.0927	0.0910	0.0869	0.0918



LTE Band 4 ($G_T - L_C = -1.0$ dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
(MHz)									
Conducted Power (dBm)	22.38	22.45	22.49	22.39	22.44	22.49	22.54	22.51	22.52
Conducted Power (Watts)	0.1730	0.1758	0.1774	0.1734	0.1754	0.1774	0.1795	0.1782	0.1786
EIRP(dBm)	21.38	21.45	21.49	21.39	21.44	21.49	21.54	21.51	21.52
EIRP(Watts)	0.1374	0.1396	0.1409	0.1377	0.1393	0.1409	0.1426	0.1416	0.1419

LTE Band 4 ($G_T - L_C = -1.0$ dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
(MHz)									
Conducted Power (dBm)	22.52	22.54	22.51	22.66	22.65	22.69	22.83	22.84	22.79
Conducted Power (Watts)	0.1786	0.1795	0.1782	0.1845	0.1841	0.1858	0.1919	0.1923	0.1901
EIRP(dBm)	21.52	21.54	21.51	21.66	21.65	21.69	21.83	21.84	21.79
EIRP(Watts)	0.1419	0.1426	0.1416	0.1466	0.1462	0.1476	0.1524	0.1528	0.1510



LTE Band 4 ($G_T - L_C = -1.0$ dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
(MHz)									
Conducted Power (dBm)	21.37	21.43	21.47	21.37	21.44	21.49	21.38	21.50	21.51
Conducted Power (Watts)	0.1371	0.1390	0.1403	0.1371	0.1393	0.1409	0.1374	0.1413	0.1416
EIRP(dBm)	20.37	20.43	20.47	20.37	20.44	20.49	20.38	20.50	20.51
EIRP(Watts)	0.1089	0.1104	0.1114	0.1089	0.1107	0.1119	0.1091	0.1122	0.1125

LTE Band 4 ($G_T - L_C = -1.0$ dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
(MHz)									
Conducted Power (dBm)	21.52	21.53	21.53	21.56	21.59	21.68	21.78	21.93	21.91
Conducted Power (Watts)	0.1419	0.1422	0.1422	0.1432	0.1442	0.1472	0.1507	0.1560	0.1552
EIRP(dBm)	20.52	20.53	20.58	20.56	20.59	20.68	20.78	20.93	20.91
EIRP(Watts)	0.1127	0.1130	0.1143	0.1138	0.1146	0.1169	0.1197	0.1239	0.1233



LTE Band 4 ($G_T - L_C = -1.0$ dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
(MHz)									
Conducted Power (dBm)	20.84	20.49	20.51	20.80	20.58	20.49	20.95	20.61	20.60
Conducted Power (Watts)	0.1213	0.1119	0.1125	0.1202	0.1143	0.1119	0.1245	0.1151	0.1148
EIRP(dBm)	19.84	19.49	19.51	19.80	19.58	19.49	19.95	19.61	19.60
EIRP(Watts)	0.0964	0.0889	0.0893	0.0955	0.0908	0.0889	0.0989	0.0914	0.0912

LTE Band 4 ($G_T - L_C = -1.0$ dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
(MHz)									
Conducted Power (dBm)	20.83	20.66	20.57	20.96	20.77	20.78	20.86	20.83	20.68
Conducted Power (Watts)	0.1211	0.1164	0.1140	0.1247	0.1194	0.1197	0.1219	0.1211	0.1169
EIRP(dBm)	19.83	19.66	19.57	19.96	19.77	19.78	19.86	19.83	19.68
EIRP(Watts)	0.0962	0.0925	0.0906	0.0991	0.0948	0.0951	0.0968	0.0962	0.0929



LTE Band 5 ($G_T - L_C = -2.0$ 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	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	22.94	23.09	22.99	22.94	23.06	23.00	22.94	23.11	23.02
Conducted Power (Watts)	0.1968	0.2037	0.1991	0.1968	0.2023	0.1995	0.1968	0.2046	0.2004
ERP(dBm)	18.79	18.94	18.84	18.79	18.91	18.85	18.79	18.96	18.87
ERP(Watts)	0.0757	0.0783	0.0766	0.0757	0.0778	0.0767	0.0757	0.0787	0.0771

LTE Band 5 ($G_T - L_C = -2.0$ dB) QPSK			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	23.11	23.18	23.12
Conducted Power (Watts)	0.2046	0.2080	0.2051
ERP(dBm)	18.96	19.03	18.97
ERP(Watts)	0.0787	0.0800	0.0789



LTE Band 5 ($G_T - L_C = -2.0$ 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	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	22.19	22.35	22.26	22.22	22.36	22.23	22.20	22.39	22.33
Conducted Power (Watts)	0.1656	0.1718	0.1683	0.1667	0.1722	0.1671	0.1660	0.1734	0.1710
ERP(dBm)	18.04	18.20	18.11	18.07	18.21	18.08	18.05	18.24	18.18
ERP(Watts)	0.0637	0.0661	0.0647	0.0641	0.0662	0.0643	0.0638	0.0667	0.0658

LTE Band 5 ($G_T - L_C = -2.0$ dB) 16QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	22.21	22.40	22.44
Conducted Power (Watts)	0.1663	0.1738	0.1754
ERP(dBm)	18.06	18.25	18.29
ERP(Watts)	0.0640	0.0668	0.0675



LTE Band 5 ($G_T - L_C = -2.0$ 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	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	21.14	21.09	21.13	21.12	21.12	21.17	21.19	21.12	21.27
Conducted Power (Watts)	0.1300	0.1285	0.1297	0.1294	0.1294	0.1309	0.1315	0.1294	0.1340
ERP(dBm)	16.99	16.94	16.98	16.97	16.97	17.02	17.04	16.97	17.12
ERP(Watts)	0.0500	0.0494	0.0499	0.0498	0.0498	0.0504	0.0506	0.0498	0.0515

LTE Band 5 ($G_T - L_C = -2.0$ dB) 64QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	21.37	21.34	21.17
Conducted Power (Watts)	0.1371	0.1361	0.1309
ERP(dBm)	17.22	17.19	17.02
ERP(Watts)	0.0527	0.0524	0.0504



LTE Band 7 ($G_T - L_C = 0$ dB) QPSK			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	22.06	22.26	22.25
Conducted Power (Watts)	0.1607	0.1683	0.1679
EIRP(dBm)	22.06	22.26	22.25
EIRP(Watts)	0.1607	0.1683	0.1679

LTE Band 7 ($G_T - L_C = 0$ 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	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
(MHz)									
Conducted Power (dBm)	22.17	22.32	22.32	22.11	22.35	22.36	22.32	22.26	22.37
Conducted Power (Watts)	0.1648	0.1706	0.1706	0.1626	0.1718	0.1722	0.1706	0.1683	0.1726
EIRP(dBm)	22.17	22.32	22.32	22.11	22.35	22.36	22.32	22.26	22.37
EIRP(Watts)	0.1648	0.1706	0.1706	0.1626	0.1718	0.1722	0.1706	0.1683	0.1726



LTE Band 7 ($G_T - L_C = 0$ dB) 16QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	21.19	21.39	21.78
Conducted Power (Watts)	0.1315	0.1377	0.1507
EIRP(dBm)	21.19	21.39	21.78
EIRP(Watts)	0.1315	0.1377	0.1507

LTE Band 7 ($G_T - L_C = 0$ 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	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
(MHz)									
Conducted Power (dBm)	21.52	21.78	21.46	21.41	21.84	21.94	21.83	21.41	21.20
Conducted Power (Watts)	0.1419	0.1507	0.1400	0.1384	0.1528	0.1563	0.1524	0.1384	0.1318
EIRP(dBm)	21.52	21.78	21.46	21.41	21.84	21.94	21.83	21.41	21.20
EIRP(Watts)	0.1419	0.1507	0.1400	0.1384	0.1528	0.1563	0.1524	0.1384	0.1318



LTE Band 7 ($G_T - L_C = 0$ dB) 64QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	20.44	20.23	20.11
Conducted Power (Watts)	0.1107	0.1054	0.1026
EIRP(dBm)	20.44	20.23	20.11
EIRP(Watts)	0.1107	0.1054	0.1026

LTE Band 7 ($G_T - L_C = 0$ 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	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
(MHz)									
Conducted Power (dBm)	20.36	20.26	20.09	20.57	20.34	20.21	20.52	20.46	20.23
Conducted Power (Watts)	0.1086	0.1062	0.1021	0.1140	0.1081	0.1050	0.1127	0.1112	0.1054
EIRP(dBm)	20.36	20.26	20.09	20.57	20.34	20.21	20.52	20.46	20.23
EIRP(Watts)	0.1086	0.1062	0.1021	0.1140	0.1081	0.1050	0.1127	0.1112	0.1054

LTE Band 7 CA ($G_T - L_C = 0$ dB) QPSK									
Bandwidth	15M + 15M			10M + 20M			20M+10M		
Channel FCC	20825	21025	21225	20805	21006	21206	20850	21051	21251
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Channel SCC	20975	21175	21375	20949	21150	21350	20994	21195	21395
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Conducted Power (dBm)	22.33	22.21	22.19	22.13	22.23	22.27	22.25	22.27	22.25
Conducted Power (Watts)	0.1710	0.1663	0.1656	0.1633	0.1671	0.1687	0.1679	0.1687	0.1679
EIRP(dBm)	22.33	22.21	22.19	22.13	22.23	22.27	22.25	22.27	22.25
EIRP(Watts)	0.1710	0.1663	0.1656	0.1633	0.1671	0.1687	0.1679	0.1687	0.1679

LTE Band 7 CA ($G_T - L_C = 0$ dB) QPSK									
Bandwidth	15M+20M			20M+15M			20M + 20M		
Channel FCC	20828	21003	21179	20850	21026	21201	20850	21001	21152
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Channel SCC	20999	21174	21350	21021	21197	21372	21048	21199	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Conducted Power (dBm)	22.23	22.26	22.13	22.30	22.32	22.10	22.31	22.29	22.33
Conducted Power (Watts)	0.1671	0.1683	0.1633	0.1698	0.1706	0.1622	0.1702	0.1694	0.1710
EIRP(dBm)	22.23	22.26	22.13	22.30	22.32	22.10	22.31	22.29	22.33
EIRP(Watts)	0.1671	0.1683	0.1633	0.1698	0.1706	0.1622	0.1702	0.1694	0.1710

LTE Band 7 CA ($G_T - L_C = 0$ dB) 16QAM									
Bandwidth	15M + 15M			10M + 20M			20M+10M		
Channel FCC	20825	21025	21225	20805	21006	21206	20850	21051	21251
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Channel SCC	20975	21175	21375	20949	21150	21350	20994	21195	21395
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Conducted Power (dBm)	22.03	21.88	21.89	21.75	21.88	21.70	21.87	21.88	21.92
Conducted Power (Watts)	0.1596	0.1542	0.1545	0.1496	0.1542	0.1479	0.1538	0.1542	0.1556
EIRP(dBm)	22.03	21.88	21.89	21.75	21.88	21.70	21.87	21.88	21.92
EIRP(Watts)	0.1596	0.1542	0.1545	0.1496	0.1542	0.1479	0.1538	0.1542	0.1556

LTE Band 7 CA ($G_T - L_C = 0$ dB) 16QAM									
Bandwidth	15M+20M			20M+15M			20M + 20M		
Channel FCC	20828	21003	21179	20850	21026	21201	20850	21001	21152
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Channel SCC	20999	21174	21350	21021	21197	21372	21048	21199	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Conducted Power (dBm)	22.00	21.82	21.78	22.22	22.23	21.91	22.09	22.11	22.04
Conducted Power (Watts)	0.1585	0.1521	0.1507	0.1667	0.1671	0.1552	0.1618	0.1626	0.1600
EIRP(dBm)	22.00	21.82	21.78	22.22	22.23	21.91	22.09	22.11	22.04
EIRP(Watts)	0.1585	0.1521	0.1507	0.1667	0.1671	0.1552	0.1618	0.1626	0.1600



LTE Band 7 CA ($G_T - L_C = 0$ dB) 64QAM									
Bandwidth	15M + 15M			10M + 20M			20M+10M		
Channel FCC	20825	21025	21225	20805	21006	21206	20850	21051	21251
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Channel SCC	20975	21175	21375	20949	21150	21350	20994	21195	21395
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Conducted Power (dBm)	20.12	20.05	20.11	19.76	19.89	19.90	20.02	19.88	19.93
Conducted Power (Watts)	0.1028	0.1012	0.1026	0.0946	0.0975	0.0977	0.1005	0.0973	0.0984
EIRP(dBm)	20.12	20.05	20.11	19.76	19.89	19.90	20.02	19.88	19.93
EIRP(Watts)	0.1028	0.1012	0.1026	0.0946	0.0975	0.0977	0.1005	0.0973	0.0984

LTE Band 7 CA ($G_T - L_C = 0$ dB) 64QAM									
Bandwidth	15M+20M			20M+15M			20M + 20M		
Channel FCC	20828	21003	21179	20850	21026	21201	20850	21001	21152
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Channel SCC	20999	21174	21350	21021	21197	21372	21048	21199	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Conducted Power (dBm)	20.12	19.96	19.68	20.06	19.77	19.92	21.50	21.68	21.57
Conducted Power (Watts)	0.1028	0.0991	0.0929	0.1014	0.0948	0.0982	0.1413	0.1472	0.1435
EIRP(dBm)	20.12	19.96	19.68	20.06	19.77	19.92	21.50	21.68	21.57
EIRP(Watts)	0.1028	0.0991	0.0929	0.1014	0.0948	0.0982	0.1413	0.1472	0.1435



LTE Band 12 ($G_T - L_C = -4.0$ 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	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
(MHz)									
Conducted Power (dBm)	23.04	23.01	22.90	22.98	22.93	22.83	23.04	23.04	22.87
Conducted Power (Watts)	0.2014	0.2000	0.1950	0.1986	0.1963	0.1919	0.2014	0.2014	0.1936
ERP(dBm)	16.89	16.86	16.75	16.83	16.78	16.68	16.89	16.89	16.72
ERP(Watts)	0.0489	0.0485	0.0473	0.0482	0.0476	0.0466	0.0489	0.0489	0.0470

LTE Band 12 ($G_T - L_C = -4.0$ dB) QPSK			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency	704	707.5	711
(MHz)			
Conducted Power (dBm)	23.13	23.01	23.03
Conducted Power (Watts)	0.2056	0.2000	0.2009
ERP(dBm)	16.98	16.86	16.88
ERP(Watts)	0.0499	0.0485	0.0488

LTE Band 12 ($G_T - L_C = -4.0$ dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	22.49	22.05	21.94	22.15	22.22	22.17	22.44	22.48	22.17
Conducted Power (Watts)	0.1774	0.1603	0.1563	0.1641	0.1667	0.1648	0.1754	0.1770	0.1648
ERP(dBm)	16.34	15.90	15.79	16.00	16.07	16.02	16.29	16.33	16.02
ERP(Watts)	0.0431	0.0389	0.0379	0.0398	0.0405	0.0400	0.0426	0.0430	0.0400

LTE Band 12 ($G_T - L_C = -4.0$ dB) 16QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	22.21	22.45	22.46
Conducted Power (Watts)	0.1663	0.1758	0.1762
ERP(dBm)	16.06	16.30	16.31
ERP(Watts)	0.0404	0.0427	0.0428



LTE Band 12 ($G_T - L_C = -4.0$ 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	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
(MHz)									
Conducted Power (dBm)	21.17	21.06	20.99	21.50	21.12	21.03	21.19	21.12	21.14
Conducted Power (Watts)	0.1309	0.1276	0.1256	0.1413	0.1294	0.1268	0.1315	0.1294	0.1300
ERP(dBm)	15.02	14.91	14.84	15.35	14.97	14.88	15.04	14.97	14.99
ERP(Watts)	0.0318	0.0310	0.0305	0.0343	0.0314	0.0308	0.0319	0.0314	0.0316

LTE Band 12 ($G_T - L_C = -4.0$ dB) 64QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency	704	707.5	711
(MHz)			
Conducted Power (dBm)	21.19	21.18	21.04
Conducted Power (Watts)	0.1315	0.1312	0.1271
ERP(dBm)	15.04	15.03	14.89
ERP(Watts)	0.0319	0.0318	0.0308



LTE Band 17 ($G_T - L_C = -4.0$ dB) QPSK						
Bandwidth	5M			10M		
Channel	23755	23790	23825	23780	23790	23800
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	706.5	710	713.5	709	710	711
(MHz)						
Conducted Power (dBm)	23.12	23.15	22.96	23.18	22.81	22.80
Conducted Power (Watts)	0.2051	0.2065	0.1977	0.2080	0.1910	0.1905
ERP(dBm)	16.97	17.00	16.81	17.03	16.66	16.65
ERP(Watts)	0.0498	0.0501	0.0480	0.0505	0.0463	0.0462

LTE Band 17 ($G_T - L_C = -4.0$ dB) 16QAM						
Bandwidth	5M			10M		
Channel	23755	23790	23825	23780	23790	23800
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	706.5	710	713.5	709	710	711
(MHz)						
Conducted Power (dBm)	22.49	22.49	22.22	22.34	21.98	22.08
Conducted Power (Watts)	0.1774	0.1774	0.1667	0.1714	0.1578	0.1614
ERP(dBm)	16.34	16.34	16.07	16.19	15.83	15.93
ERP(Watts)	0.0431	0.0431	0.0405	0.0416	0.0383	0.0392



LTE Band 17 ($G_T - L_C = -4.0$ dB) 64QAM						
Bandwidth	5M			10M		
Channel	23755	23790	23825	23780	23790	23800
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	706.5	710	713.5	709	710	711
(MHz)						
Conducted Power (dBm)	21.21	21.18	21.15	21.24	21.26	21.18
Conducted Power (Watts)	0.1321	0.1312	0.1303	0.1330	0.1337	0.1312
ERP(dBm)	15.06	15.03	15.00	15.09	15.11	15.03
ERP(Watts)	0.0321	0.0318	0.0316	0.0323	0.0324	0.0318

LTE Band 25 ($G_T - L_C = -1.0$ 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	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
(MHz)									
Conducted Power (dBm)	22.16	22.33	22.34	22.19	22.13	22.35	22.29	22.29	22.26
Conducted Power (Watts)	0.1644	0.1710	0.1714	0.1656	0.1633	0.1718	0.1694	0.1694	0.1683
EIRP(dBm)	21.16	21.33	21.34	21.19	21.13	21.35	21.29	21.29	21.26
EIRP(Watts)	0.1306	0.1358	0.1361	0.1315	0.1297	0.1365	0.1346	0.1346	0.1337

LTE Band 25 ($G_T - L_C = -1.0$ 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	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
(MHz)									
Conducted Power (dBm)	22.32	22.34	22.36	22.17	22.35	22.32	22.35	22.34	22.37
Conducted Power (Watts)	0.1706	0.1714	0.1722	0.1648	0.1718	0.1706	0.1718	0.1714	0.1726
EIRP(dBm)	21.32	21.34	21.36	21.17	21.35	21.32	21.35	21.34	21.37
EIRP(Watts)	0.1355	0.1361	0.1368	0.1309	0.1365	0.1355	0.1365	0.1361	0.1371



LTE Band 25 ($G_T - L_C = -1.0$ 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	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
(MHz)									
Conducted Power (dBm)	21.21	21.28	21.45	21.32	21.63	21.72	21.12	21.41	21.80
Conducted Power (Watts)	0.1321	0.1343	0.1396	0.1355	0.1455	0.1486	0.1294	0.1384	0.1514
EIRP(dBm)	20.21	20.28	20.45	20.32	20.63	20.72	20.12	20.41	20.80
EIRP(Watts)	0.1050	0.1067	0.1109	0.1076	0.1156	0.1180	0.1028	0.1099	0.1202

LTE Band 25 ($G_T - L_C = -1.0$ 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	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
(MHz)									
Conducted Power (dBm)	21.68	21.89	21.89	21.31	21.56	21.97	21.61	21.90	21.86
Conducted Power (Watts)	0.1472	0.1545	0.1545	0.1352	0.1432	0.1574	0.1449	0.1549	0.1535
EIRP(dBm)	20.68	20.89	20.93	20.31	20.56	20.97	20.61	20.90	20.86
EIRP(Watts)	0.1169	0.1227	0.1239	0.1074	0.1138	0.1250	0.1151	0.1230	0.1219



LTE Band 25 ($G_T - L_C = -1.0$ 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	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
(MHz)									
Conducted Power (dBm)	20.32	20.29	20.52	20.32	20.39	20.66	20.43	20.29	20.64
Conducted Power (Watts)	0.1076	0.1069	0.1127	0.1076	0.1094	0.1164	0.1104	0.1069	0.1159
EIRP(dBm)	19.32	19.29	19.52	19.32	19.39	19.66	19.43	19.29	19.64
EIRP(Watts)	0.0855	0.0849	0.0895	0.0855	0.0869	0.0925	0.0877	0.0849	0.0920

LTE Band 25 ($G_T - L_C = -1.0$ 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	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
(MHz)									
Conducted Power (dBm)	20.69	20.62	20.65	20.52	20.53	20.74	20.65	20.67	20.82
Conducted Power (Watts)	0.1172	0.1153	0.1161	0.1127	0.1130	0.1186	0.1161	0.1167	0.1208
EIRP(dBm)	19.69	19.62	19.65	19.52	19.53	19.74	19.65	19.67	19.82
EIRP(Watts)	0.0931	0.0916	0.0923	0.0895	0.0897	0.0942	0.0923	0.0927	0.0959



LTE Band 26 ($G_T - L_C = -2.0$ dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	23.08	23.10	23.09	23.07	23.10	23.24	23.03	23.15	23.09
Conducted Power (Watts)	0.2032	0.2042	0.2037	0.2028	0.2042	0.2109	0.2009	0.2065	0.2037
ERP(dBm)	18.93	18.95	18.94	18.92	18.95	19.09	18.88	19.00	18.94
ERP(Watts)	0.0782	0.0785	0.0783	0.0780	0.0785	0.0811	0.0773	0.0794	0.0783

LTE Band 26 ($G_T - L_C = -2.0$ dB) QPSK							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency	829	836.5	844	831.5	836.5	841.5	821.5
(MHz)							
Conducted Power (dBm)	23.12	23.26	23.32	23.37	23.34	23.31	23.17
Conducted Power (Watts)	0.2051	0.2118	0.2148	0.2173	0.2158	0.2143	0.2075
ERP(dBm)	18.97	19.11	19.17	19.22	19.19	19.16	19.02
ERP(Watts)	0.0789	0.0815	0.0826	0.0836	0.0830	0.0824	0.0798

LTE Band 26 ($G_T - L_C = -2.0$ dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	22.59	22.56	22.67	22.54	22.61	22.24	22.59	22.66	22.35
Conducted Power (Watts)	0.1816	0.1803	0.1849	0.1795	0.1824	0.1675	0.1816	0.1845	0.1718
ERP(dBm)	18.44	18.41	18.52	18.39	18.46	18.09	18.44	18.51	18.20
ERP(Watts)	0.0698	0.0693	0.0711	0.0690	0.0701	0.0644	0.0698	0.0710	0.0661

LTE Band 26 ($G_T - L_C = -2.0$ dB) 16QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency	829	836.5	844	831.5	836.5	841.5	821.5
(MHz)							
Conducted Power (dBm)	22.58	22.34	22.23	22.60	22.63	22.41	22.74
Conducted Power (Watts)	0.1811	0.1714	0.1671	0.1820	0.1832	0.1742	0.1879
ERP(dBm)	18.43	18.19	18.08	18.45	18.48	18.26	18.59
ERP(Watts)	0.0697	0.0659	0.0643	0.0700	0.0705	0.0670	0.0723



LTE Band 26 ($G_T - L_C = -2.0$ dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	21.11	20.94	21.05	21.14	21.02	21.09	21.14	20.99	21.12
Conducted Power (Watts)	0.1291	0.1242	0.1274	0.1300	0.1265	0.1285	0.1300	0.1256	0.1294
ERP(dBm)	16.96	16.79	16.90	16.99	16.87	16.94	16.99	16.84	16.97
ERP(Watts)	0.0497	0.0478	0.0490	0.0500	0.0486	0.0494	0.0500	0.0483	0.0498

LTE Band 26 ($G_T - L_C = -2.0$ dB) 64QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency	829	836.5	844	831.5	836.5	841.5	821.5
(MHz)							
Conducted Power (dBm)	21.20	20.97	21.09	21.15	21.12	21.18	21.28
Conducted Power (Watts)	0.1318	0.1250	0.1285	0.1303	0.1294	0.1312	0.1343
ERP(dBm)	17.05	16.82	16.94	17.00	16.97	17.03	17.13
ERP(Watts)	0.0507	0.0481	0.0494	0.0501	0.0498	0.0505	0.0516



LTE Band 38 ($G_T - L_C = 0$ dB) QPSK			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency	2572.5	2595	2617.5
(MHz)			
Conducted Power (dBm)	22.46	22.43	22.43
Conducted Power (Watts)	0.1762	0.1750	0.1750
EIRP(dBm)	22.46	22.43	22.43
EIRP(Watts)	0.1762	0.1750	0.1750

LTE Band 38 ($G_T - L_C = 0$ dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	37800	38000	38200	37825	38000	38175	37850	38000	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency	2575	2595	2615	2577.5	2595	2612.5	2580	2595	2610
(MHz)									
Conducted Power (dBm)	22.50	22.30	22.40	22.62	22.34	22.25	22.63	22.51	22.51
Conducted Power (Watts)	0.1778	0.1698	0.1738	0.1828	0.1714	0.1679	0.1832	0.1782	0.1782
EIRP(dBm)	22.50	22.30	22.40	22.62	22.34	22.25	22.63	22.51	22.51
EIRP(Watts)	0.1778	0.1698	0.1738	0.1828	0.1714	0.1679	0.1832	0.1782	0.1782



LTE Band 38 ($G_T - L_C = 0$ dB) 16QAM			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency	2572.5	2595	2617.5
(MHz)			
Conducted Power (dBm)	21.84	21.57	21.57
Conducted Power (Watts)	0.1528	0.1435	0.1435
EIRP(dBm)	21.84	21.57	21.57
EIRP(Watts)	0.1528	0.1435	0.1435

LTE Band 38 ($G_T - L_C = 0$ dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	37800	38000	38200	37825	38000	38175	37850	38000	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency	2575	2595	2615	2577.5	2595	2612.5	2580	2595	2610
(MHz)									
Conducted Power (dBm)	21.89	21.67	21.67	21.81	21.45	21.99	21.88	21.78	21.78
Conducted Power (Watts)	0.1545	0.1469	0.1469	0.1517	0.1396	0.1581	0.1542	0.1507	0.1507
EIRP(dBm)	21.89	21.67	21.67	21.81	21.45	21.99	21.88	21.78	21.78
EIRP(Watts)	0.1545	0.1469	0.1469	0.1517	0.1396	0.1581	0.1542	0.1507	0.1507



LTE Band 38 ($G_T - L_C = 0$ dB) 64QAM			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency	2572.5	2595	2617.5
(MHz)			
Conducted Power (dBm)	20.47	20.56	20.64
Conducted Power (Watts)	0.1114	0.1138	0.1159
EIRP(dBm)	20.47	20.56	20.64
EIRP(Watts)	0.1114	0.1138	0.1159

LTE Band 38 ($G_T - L_C = 0$ dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	37800	38000	38200	37825	38000	38175	37850	38000	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency	2575	2595	2615	2577.5	2595	2612.5	2580	2595	2610
(MHz)									
Conducted Power (dBm)	20.60	20.76	20.81	20.69	20.71	20.88	20.74	20.77	20.91
Conducted Power (Watts)	0.1148	0.1191	0.1205	0.1172	0.1178	0.1225	0.1186	0.1194	0.1233
EIRP(dBm)	20.60	20.76	20.81	20.69	20.71	20.88	20.74	20.77	20.91
EIRP(Watts)	0.1148	0.1191	0.1205	0.1172	0.1178	0.1225	0.1186	0.1194	0.1233

LTE Band 41 ($G_T - L_C = 0$ dB) QPSK									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
(MHz)									
Conducted Power (dBm)	22.09	22.28	22.08	22.18	22.24	22.19	22.13	22.16	21.69
Conducted Power (Watts)	0.1618	0.1690	0.1614	0.1652	0.1675	0.1656	0.1633	0.1644	0.1476
EIRP(dBm)	22.09	22.28	22.08	22.18	22.24	22.19	22.13	22.16	21.69
EIRP(Watts)	0.1618	0.1690	0.1614	0.1652	0.1675	0.1656	0.1633	0.1644	0.1476

LTE Band 41 ($G_T - L_C = 0$ dB) QPSK			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency	2506	2593	2680
(MHz)			
Conducted Power (dBm)	22.35	22.36	21.77
Conducted Power (Watts)	0.1718	0.1722	0.1503
EIRP(dBm)	22.35	22.36	21.77
EIRP(Watts)	0.1718	0.1722	0.1503

LTE Band 41 ($G_T - L_C = 0$ dB) 16QAM									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
(MHz)									
Conducted Power (dBm)	21.40	21.41	21.25	21.41	21.50	21.26	21.48	21.54	20.98
Conducted Power (Watts)	0.1380	0.1384	0.1334	0.1384	0.1413	0.1337	0.1406	0.1426	0.1253
EIRP(dBm)	21.40	21.41	21.25	21.41	21.50	21.26	21.48	21.54	20.98
EIRP(Watts)	0.1380	0.1384	0.1334	0.1384	0.1413	0.1337	0.1406	0.1426	0.1253

LTE Band 41 ($G_T - L_C = 0$ dB) 16QAM			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency	2506	2593	2680
(MHz)			
Conducted Power (dBm)	21.57	21.67	21.06
Conducted Power (Watts)	0.1435	0.1469	0.1276
EIRP(dBm)	21.57	21.67	21.06
EIRP(Watts)	0.1435	0.1469	0.1276

LTE Band 41 ($G_T - L_C = 0$ dB) 64QAM									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
(MHz)									
Conducted Power (dBm)	20.48	20.61	20.97	20.48	20.58	20.21	20.53	20.55	20.41
Conducted Power (Watts)	0.1117	0.1151	0.1250	0.1117	0.1143	0.1050	0.1130	0.1135	0.1099
EIRP(dBm)	20.48	20.61	20.97	20.48	20.58	20.21	20.53	20.55	20.41
EIRP(Watts)	0.1117	0.1151	0.1250	0.1117	0.1143	0.1050	0.1130	0.1135	0.1099

LTE Band 41 ($G_T - L_C = 0$ dB) 64QAM			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency	2506	2593	2680
(MHz)			
Conducted Power (dBm)	20.53	20.77	20.30
Conducted Power (Watts)	0.1130	0.1194	0.1072
EIRP(dBm)	20.53	20.77	20.30
EIRP(Watts)	0.1130	0.1194	0.1072



LTE Band 41 CA ($G_T - L_C = 0$ dB) QPSK									
Bandwidth	15M + 15M			5M + 20M			20M + 5M		
Channel FCC	39725	40620	41169	39675	40620	41373	39750	40620	41448
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Channel SCC	39875	40770	41319	39792	40737	41490	39867	40737	41565
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Conducted Power (dBm)	22.18	22.34	22.28	22.24	22.24	22.15	22.22	22.25	22.18
Conducted Power (Watts)	0.1652	0.1714	0.1690	0.1675	0.1675	0.1641	0.1667	0.1679	0.1652
EIRP(dBm)	22.18	22.34	22.28	22.24	22.24	22.15	22.22	22.25	22.18
EIRP(Watts)	0.1652	0.1714	0.1690	0.1675	0.1675	0.1641	0.1667	0.1679	0.1652

LTE Band 41 CA ($G_T - L_C = 0$ dB) QPSK									
Bandwidth	10M + 20M			20M + 10M			15M + 20M		
Channel FCC	39700	40620	41346	39750	40620	41396	39725	40620	41319
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Channel SCC	39844	40764	41490	39894	40764	41540	39896	40791	40419
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Conducted Power (dBm)	22.20	22.11	22.18	22.32	22.26	22.21	22.20	22.16	21.93
Conducted Power (Watts)	0.1660	0.1626	0.1652	0.1706	0.1683	0.1663	0.1660	0.1644	0.1560
EIRP(dBm)	22.20	22.11	22.18	22.32	22.26	22.21	22.20	22.16	21.93
EIRP(Watts)	0.1660	0.1626	0.1652	0.1706	0.1683	0.1663	0.1660	0.1644	0.1560

LTE Band 41 CA ($G_T - L_C = 0$ dB) QPSK						
Bandwidth	20M+15M			20M+20M		
Channel FCC	39750	40620	41344	39750	40620	41292
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39921	40791	41515	39948	40818	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.21	22.31	22.28	22.35	22.31	22.27
Conducted Power (Watts)	0.1663	0.1702	0.1690	0.1718	0.1702	0.1687
EIRP(dBm)	22.21	22.31	22.28	22.35	22.21	22.27
EIRP(Watts)	0.1663	0.1702	0.1690	0.1718	0.1702	0.1687



LTE Band 41 CA ($G_T - L_C = 0$ dB) 16QAM									
Bandwidth	15M + 15M			5M + 20M			20M + 5M		
Channel FCC	39725	40620	41169	39675	40620	41373	39750	40620	41448
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Channel SCC	39875	40770	41319	39792	40737	41490	39867	40737	41565
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Conducted Power (dBm)	22.11	22.23	22.12	22.12	22.07	21.87	22.16	22.12	22.07
Conducted Power (Watts)	0.1626	0.1671	0.1629	0.1629	0.1611	0.1538	0.1644	0.1629	0.1611
EIRP(dBm)	22.11	22.23	22.12	22.12	22.07	21.87	22.16	22.12	22.07
EIRP(Watts)	0.1626	0.1671	0.1629	0.1629	0.1611	0.1538	0.1644	0.1629	0.1611

LTE Band 41 CA ($G_T - L_C = 0$ dB) 16QAM									
Bandwidth	10M + 20M			20M + 10M			15M + 20M		
Channel FCC	39700	40620	41346	39750	40620	41396	39725	40620	41319
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Channel SCC	39844	40764	41490	39894	40764	41540	39896	40791	40419
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Conducted Power (dBm)	21.97	21.82	21.92	22.23	22.18	22.15	22.01	21.88	21.71
Conducted Power (Watts)	0.1574	0.1521	0.1556	0.1671	0.1652	0.1641	0.1589	0.1542	0.1483
EIRP(dBm)	21.97	21.82	21.92	22.23	22.18	22.15	22.01	21.88	21.71
EIRP(Watts)	0.1574	0.1521	0.1556	0.1671	0.1652	0.1641	0.1589	0.1542	0.1483

LTE Band 41 CA ($G_T - L_C = 0$ dB) 16QAM						
Bandwidth	20M+15M			20M+20M		
Channel FCC	39750	40620	41344	39750	40620	41292
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39921	40791	41515	39948	40818	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.09	22.23	22.21	22.24	22.30	22.18
Conducted Power (Watts)	0.1618	0.1671	0.1663	0.1675	0.1698	0.1652
EIRP(dBm)	22.09	22.23	22.21	22.24	22.30	22.18
EIRP(Watts)	0.1618	0.1671	0.1663	0.1675	0.1698	0.1652



LTE Band 41 CA ($G_T - L_C = 0$ dB) 64QAM									
Bandwidth	15M + 15M			5M + 20M			20M + 5M		
Channel FCC	39725	40620	41169	39675	40620	41373	39750	40620	41448
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Channel SCC	39875	40770	41319	39792	40737	41490	39867	40737	41565
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Conducted Power (dBm)	20.88	21.12	20.95	21.12	20.86	20.79	21.03	20.98	20.92
Conducted Power (Watts)	0.1225	0.1294	0.1245	0.1294	0.1219	0.1199	0.1268	0.1253	0.1236
EIRP(dBm)	20.88	21.12	20.95	21.12	20.86	20.79	21.03	20.98	20.92
EIRP(Watts)	0.1225	0.1294	0.1245	0.1294	0.1219	0.1199	0.1268	0.1253	0.1236

LTE Band 41 CA ($G_T - L_C = 0$ dB) 64QAM									
Bandwidth	10M + 20M			20M + 10M			15M + 20M		
Channel FCC	39700	40620	41346	39750	40620	41396	39725	40620	41319
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Channel SCC	39844	40764	41490	39894	40764	41540	39896	40791	40419
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Conducted Power (dBm)	21.12	20.88	20.97	21.05	21.03	20.95	20.45	20.22	20.11
Conducted Power (Watts)	0.1294	0.1225	0.1250	0.1274	0.1268	0.1245	0.1109	0.1052	0.1026
EIRP(dBm)	21.12	20.88	20.97	21.05	21.03	20.95	20.45	20.22	20.11
EIRP(Watts)	0.1294	0.1225	0.1250	0.1274	0.1268	0.1245	0.1109	0.1052	0.1026

LTE Band 41 CA ($G_T - L_C = 0$ dB) 64QAM						
Bandwidth	20M+15M			20M+20M		
Channel FCC	39750	40620	41344	39750	40620	41292
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39921	40791	41515	39948	40818	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	20.92	20.93	21.00	20.95	20.75	20.55
Conducted Power (Watts)	0.1236	0.1239	0.1259	0.1245	0.1189	0.1135
EIRP(dBm)	20.92	20.93	21.00	20.95	20.75	20.55
EIRP(Watts)	0.1236	0.1239	0.1259	0.1245	0.1189	0.1135



LTE Band 66 ($G_T - L_C = -1.0$ 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	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
(MHz)									
Conducted Power (dBm)	22.50	22.51	22.48	22.51	22.52	22.48	22.49	22.54	22.47
Conducted Power (Watts)	0.1778	0.1782	0.1770	0.1782	0.1786	0.1770	0.1774	0.1795	0.1766
EIRP(dBm)	21.50	21.51	21.48	21.51	21.52	21.48	21.49	21.54	21.47
EIRP(Watts)	0.1413	0.1416	0.1406	0.1416	0.1419	0.1406	0.1409	0.1426	0.1403

LTE Band 66 ($G_T - L_C = -1.0$ 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	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
(MHz)									
Conducted Power (dBm)	22.57	22.64	22.53	22.43	22.59	22.51	22.82	22.85	22.70
Conducted Power (Watts)	0.1807	0.1837	0.1791	0.1750	0.1816	0.1782	0.1914	0.1928	0.1862
EIRP(dBm)	21.57	21.64	21.53	21.43	21.59	21.51	21.82	21.85	21.70
EIRP(Watts)	0.1435	0.1459	0.1422	0.1390	0.1442	0.1416	0.1521	0.1531	0.1479



LTE Band 66 ($G_T - L_C = -1.0$ 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	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
(MHz)									
Conducted Power (dBm)	21.82	21.79	21.84	21.86	21.79	21.83	21.82	21.81	21.91
Conducted Power (Watts)	0.1521	0.1510	0.1528	0.1535	0.1510	0.1524	0.1521	0.1517	0.1552
EIRP(dBm)	20.82	20.79	20.84	20.86	20.79	20.83	20.82	20.81	20.91
EIRP(Watts)	0.1208	0.1199	0.1213	0.1219	0.1199	0.1211	0.1208	0.1205	0.1233

LTE Band 66 ($G_T - L_C = -1.0$ 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	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
(MHz)									
Conducted Power (dBm)	21.90	21.84	21.84	22.01	21.98	22.02	22.14	22.00	22.01
Conducted Power (Watts)	0.1549	0.1528	0.1528	0.1589	0.1578	0.1592	0.1637	0.1585	0.1589
EIRP(dBm)	20.90	20.84	20.84	21.01	20.98	21.02	21.14	21.00	21.01
EIRP(Watts)	0.1230	0.1213	0.1213	0.1262	0.1253	0.1265	0.1300	0.1259	0.1262



LTE Band 66 ($G_T - L_C = -1.0$ 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	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
(MHz)									
Conducted Power (dBm)	20.85	20.82	20.83	20.85	20.81	20.84	20.89	20.89	20.88
Conducted Power (Watts)	0.1216	0.1208	0.1211	0.1216	0.1205	0.1213	0.1227	0.1227	0.1225
EIRP(dBm)	19.85	19.82	19.83	19.85	19.81	19.84	19.89	19.89	19.88
EIRP(Watts)	0.0966	0.0959	0.0962	0.0966	0.0957	0.0964	0.0975	0.0975	0.0973

LTE Band 66 ($G_T - L_C = -1.0$ 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	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
(MHz)									
Conducted Power (dBm)	20.98	20.92	20.91	21.10	21.02	21.05	21.08	21.10	21.03
Conducted Power (Watts)	0.1253	0.1236	0.1233	0.1288	0.1265	0.1274	0.1282	0.1288	0.1268
EIRP(dBm)	19.98	19.92	19.91	20.10	20.02	20.05	20.08	20.10	20.03
EIRP(Watts)	0.0995	0.0982	0.0979	0.1023	0.1005	0.1012	0.1019	0.1023	0.1007



<Bottom Antenna>

LTE Band 2 ($G_T - L_C = -0.5$ dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
(MHz)									
Conducted Power (dBm)	21.93	22.18	22.28	21.93	22.15	22.29	21.99	22.17	22.30
Conducted Power (Watts)	0.1560	0.1652	0.1690	0.1560	0.1641	0.1694	0.1581	0.1648	0.1698
EIRP(dBm)	21.43	21.68	21.78	21.43	21.65	21.79	21.49	21.67	21.80
EIRP(Watts)	0.1390	0.1472	0.1507	0.1390	0.1462	0.1510	0.1409	0.1469	0.1514

LTE Band 2 ($G_T - L_C = -0.5$ dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
(MHz)									
Conducted Power (dBm)	22.14	22.33	22.28	22.03	22.02	22.31	22.29	22.15	22.36
Conducted Power (Watts)	0.1637	0.1710	0.1690	0.1596	0.1592	0.1702	0.1694	0.1641	0.1722
EIRP(dBm)	21.64	21.83	21.78	21.53	21.52	21.81	21.79	21.65	21.86
EIRP(Watts)	0.1459	0.1524	0.1507	0.1422	0.1419	0.1517	0.1510	0.1462	0.1535



LTE Band 2 ($G_T - L_C = -0.5$ dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
(MHz)									
Conducted Power (dBm)	21.12	21.35	21.50	21.15	21.37	21.51	21.22	21.41	21.53
Conducted Power (Watts)	0.1294	0.1365	0.1413	0.1303	0.1371	0.1416	0.1324	0.1384	0.1422
EIRP(dBm)	20.62	20.85	21.00	20.65	20.87	21.01	20.72	20.91	21.03
EIRP(Watts)	0.1153	0.1216	0.1259	0.1161	0.1222	0.1262	0.1180	0.1233	0.1268

LTE Band 2 ($G_T - L_C = -0.5$ dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
(MHz)									
Conducted Power (dBm)	21.39	21.57	21.52	21.35	21.40	21.80	21.57	21.46	21.82
Conducted Power (Watts)	0.1377	0.1435	0.1419	0.1365	0.1380	0.1514	0.1435	0.1400	0.1521
EIRP(dBm)	20.89	21.07	21.02	20.85	20.90	21.30	21.07	20.96	21.32
EIRP(Watts)	0.1227	0.1279	0.1265	0.1216	0.1230	0.1349	0.1279	0.1247	0.1355



LTE Band 2 ($G_T - L_C = -0.5$ dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
(MHz)									
Conducted Power (dBm)	20.05	20.19	20.32	20.16	20.22	20.32	20.18	20.29	20.20
Conducted Power (Watts)	0.1012	0.1045	0.1076	0.1038	0.1052	0.1076	0.1042	0.1069	0.1047
EIRP(dBm)	19.55	19.69	19.82	19.66	19.72	19.82	19.68	19.79	19.70
EIRP(Watts)	0.0902	0.0931	0.0959	0.0925	0.0938	0.0959	0.0929	0.0953	0.0933

LTE Band 2 ($G_T - L_C = -0.5$ dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
(MHz)									
Conducted Power (dBm)	20.43	20.40	20.40	20.31	20.35	20.67	20.59	20.39	20.63
Conducted Power (Watts)	0.1104	0.1096	0.1096	0.1074	0.1084	0.1167	0.1146	0.1094	0.1156
EIRP(dBm)	19.93	19.90	19.90	19.81	19.85	20.17	20.09	19.89	20.13
EIRP(Watts)	0.0984	0.0977	0.0977	0.0957	0.0966	0.1040	0.1021	0.0975	0.1030

LTE Band 4 ($G_T - L_C = -0.5$ dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
(MHz)									
Conducted Power (dBm)	22.38	22.45	22.49	22.39	22.44	22.49	22.54	22.51	22.52
Conducted Power (Watts)	0.1730	0.1758	0.1774	0.1734	0.1754	0.1774	0.1795	0.1782	0.1786
EIRP(dBm)	21.88	21.95	21.99	21.89	21.94	21.99	22.04	22.01	22.02
EIRP(Watts)	0.1542	0.1567	0.1581	0.1545	0.1563	0.1581	0.1600	0.1589	0.1592

LTE Band 4 ($G_T - L_C = -0.5$ dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
(MHz)									
Conducted Power (dBm)	22.52	22.54	22.51	22.66	22.65	22.69	22.83	22.84	22.79
Conducted Power (Watts)	0.1786	0.1795	0.1782	0.1845	0.1841	0.1858	0.1919	0.1923	0.1901
EIRP(dBm)	22.02	22.04	22.01	22.16	22.15	22.19	22.33	22.34	22.29
EIRP(Watts)	0.1592	0.1600	0.1589	0.1644	0.1641	0.1656	0.1710	0.1714	0.1694



LTE Band 4 ($G_T - L_C = -0.5$ dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
(MHz)									
Conducted Power (dBm)	21.37	21.43	21.47	21.37	21.44	21.49	21.38	21.50	21.51
Conducted Power (Watts)	0.1371	0.1390	0.1403	0.1371	0.1393	0.1409	0.1374	0.1413	0.1416
EIRP(dBm)	20.87	20.93	20.97	20.87	20.94	20.99	20.88	21.00	21.01
EIRP(Watts)	0.1222	0.1239	0.1250	0.1222	0.1242	0.1256	0.1225	0.1259	0.1262

LTE Band 4 ($G_T - L_C = -0.5$ dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
(MHz)									
Conducted Power (dBm)	21.52	21.53	21.53	21.56	21.59	21.68	21.78	21.93	21.91
Conducted Power (Watts)	0.1419	0.1422	0.1422	0.1432	0.1442	0.1472	0.1507	0.1560	0.1552
EIRP(dBm)	21.02	21.03	21.08	21.06	21.09	21.18	21.28	21.43	21.41
EIRP(Watts)	0.1265	0.1268	0.1282	0.1276	0.1285	0.1312	0.1343	0.1390	0.1384



LTE Band 4 ($G_T - L_C = -0.5$ dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
(MHz)									
Conducted Power (dBm)	20.84	20.49	20.51	20.80	20.58	20.49	20.95	20.61	20.60
Conducted Power (Watts)	0.1213	0.1119	0.1125	0.1202	0.1143	0.1119	0.1245	0.1151	0.1148
EIRP(dBm)	20.34	19.99	20.01	20.30	20.08	19.99	20.45	20.11	20.10
EIRP(Watts)	0.1081	0.0998	0.1002	0.1072	0.1019	0.0998	0.1109	0.1026	0.1023

LTE Band 4 ($G_T - L_C = -0.5$ dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
(MHz)									
Conducted Power (dBm)	20.83	20.66	20.57	20.96	20.77	20.78	20.86	20.83	20.53
Conducted Power (Watts)	0.1211	0.1164	0.1140	0.1247	0.1194	0.1197	0.1219	0.1211	0.1130
EIRP(dBm)	20.33	20.16	20.07	20.46	20.27	20.28	20.36	20.33	20.03
EIRP(Watts)	0.1079	0.1038	0.1016	0.1112	0.1064	0.1067	0.1086	0.1079	0.1007



LTE Band 5 ($G_T - L_C = -2.0$ 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	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	22.94	23.09	22.99	22.94	23.06	23.00	22.94	23.11	23.02
Conducted Power (Watts)	0.1968	0.2037	0.1991	0.1968	0.2023	0.1995	0.1968	0.2046	0.2004
ERP(dBm)	18.79	18.94	18.84	18.79	18.91	18.85	18.79	18.96	18.87
ERP(Watts)	0.0757	0.0783	0.0766	0.0757	0.0778	0.0767	0.0757	0.0787	0.0771

LTE Band 5 ($G_T - L_C = -2.0$ dB) QPSK			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	23.11	23.18	23.12
Conducted Power (Watts)	0.2046	0.2080	0.2051
ERP(dBm)	18.96	19.03	18.97
ERP(Watts)	0.0787	0.0800	0.0789



LTE Band 5 ($G_T - L_C = -2.0$ 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	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	22.19	22.35	22.26	22.22	22.36	22.23	22.20	22.39	22.33
Conducted Power (Watts)	0.1656	0.1718	0.1683	0.1667	0.1722	0.1671	0.1660	0.1734	0.1710
ERP(dBm)	18.04	18.20	18.11	18.07	18.21	18.08	18.05	18.24	18.18
ERP(Watts)	0.0637	0.0661	0.0647	0.0641	0.0662	0.0643	0.0638	0.0667	0.0658

LTE Band 5 ($G_T - L_C = -2.0$ dB) 16QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	22.21	22.40	22.44
Conducted Power (Watts)	0.1663	0.1738	0.1754
ERP(dBm)	18.06	18.25	18.29
ERP(Watts)	0.0640	0.0668	0.0675



LTE Band 5 ($G_T - L_C = -2.0$ 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	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	21.14	21.09	21.13	21.12	21.12	21.17	21.19	21.12	21.27
Conducted Power (Watts)	0.1300	0.1285	0.1297	0.1294	0.1294	0.1309	0.1315	0.1294	0.1340
ERP(dBm)	16.99	16.94	16.98	16.97	16.97	17.02	17.04	16.97	17.12
ERP(Watts)	0.0500	0.0494	0.0499	0.0498	0.0498	0.0504	0.0506	0.0498	0.0515

LTE Band 5 ($G_T - L_C = -2.0$ dB) 64QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	21.37	21.34	21.17
Conducted Power (Watts)	0.1371	0.1361	0.1309
ERP(dBm)	17.22	17.19	17.02
ERP(Watts)	0.0527	0.0524	0.0504

LTE Band 7 ($G_T - L_C = 0$ dB) QPSK			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	22.06	22.26	22.25
Conducted Power (Watts)	0.1607	0.1683	0.1679
EIRP(dBm)	22.06	22.26	22.25
EIRP(Watts)	0.1607	0.1683	0.1679

LTE Band 7 ($G_T - L_C = 0$ 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	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
(MHz)									
Conducted Power (dBm)	22.17	22.32	22.32	22.11	22.35	22.36	22.32	22.26	22.37
Conducted Power (Watts)	0.1648	0.1706	0.1706	0.1626	0.1718	0.1722	0.1706	0.1683	0.1726
EIRP(dBm)	22.17	22.32	22.32	22.11	22.35	22.36	22.32	22.26	22.37
EIRP(Watts)	0.1648	0.1706	0.1706	0.1626	0.1718	0.1722	0.1706	0.1683	0.1726

LTE Band 7 ($G_T - L_C = 0$ dB) 16QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	21.19	21.39	21.78
Conducted Power (Watts)	0.1315	0.1377	0.1507
EIRP(dBm)	21.19	21.39	21.78
EIRP(Watts)	0.1315	0.1377	0.1507

LTE Band 7 ($G_T - L_C = 0$ 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	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
(MHz)									
Conducted Power (dBm)	21.52	21.78	21.46	21.41	21.84	21.94	21.83	21.41	21.20
Conducted Power (Watts)	0.1419	0.1507	0.1400	0.1384	0.1528	0.1563	0.1524	0.1384	0.1318
EIRP(dBm)	21.52	21.78	21.46	21.41	21.84	21.94	21.83	21.41	21.20
EIRP(Watts)	0.1419	0.1507	0.1400	0.1384	0.1528	0.1563	0.1524	0.1384	0.1318



LTE Band 7 ($G_T - L_C = 0$ dB) 64QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	20.44	20.23	20.11
Conducted Power (Watts)	0.1107	0.1054	0.1026
EIRP(dBm)	20.44	20.23	20.11
EIRP(Watts)	0.1107	0.1054	0.1026

LTE Band 7 ($G_T - L_C = 0$ 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	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
(MHz)									
Conducted Power (dBm)	20.36	20.26	20.09	20.57	20.34	20.21	20.52	20.46	20.23
Conducted Power (Watts)	0.1086	0.1062	0.1021	0.1140	0.1081	0.1050	0.1127	0.1112	0.1054
EIRP(dBm)	20.36	20.26	20.09	20.57	20.34	20.21	20.52	20.46	20.23
EIRP(Watts)	0.1086	0.1062	0.1021	0.1140	0.1081	0.1050	0.1127	0.1112	0.1054

LTE Band 7 CA ($G_T - L_C = 0$ dB) QPSK						
Bandwidth	20M+15M			20M+20M		
Channel	20800	21100	21400	20825	21100	21375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2505	2535	2565	2507.5	2535	2562.5
(MHz)						
Conducted Power (dBm)	22.21	22.31	22.28	22.35	22.31	22.27
Conducted Power (Watts)	0.1663	0.1702	0.1690	0.1718	0.1702	0.1687
EIRP(dBm)	22.21	22.31	22.28	22.35	22.31	22.27
EIRP(Watts)	0.1663	0.1702	0.1690	0.1718	0.1702	0.1687

LTE Band 7 CA ($G_T - L_C = 0$ dB) 16QAM						
Bandwidth	20M+15M			20M+20M		
Channel	20800	21100	21400	20825	21100	21375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2505	2535	2565	2507.5	2535	2562.5
(MHz)						
Conducted Power (dBm)	22.32	22.26	22.21	22.24	22.30	22.18
Conducted Power (Watts)	0.1706	0.1683	0.1663	0.1675	0.1698	0.1652
EIRP(dBm)	22.32	22.26	22.21	22.24	22.30	22.18
EIRP(Watts)	0.1706	0.1683	0.1663	0.1675	0.1698	0.1652



LTE Band 7 CA ($G_T - L_C = 0$ dB) 64QAM									
Bandwidth	15M + 15M			10M + 20M			20M+10M		
Channel FCC	20825	21025	21225	20805	21006	21206	20850	21051	21251
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Channel SCC	20975	21175	21375	20949	21150	21350	20994	21195	21395
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Conducted Power (dBm)	20.12	20.05	20.11	19.76	19.89	19.90	20.02	19.88	19.93
Conducted Power (Watts)	0.1028	0.1012	0.1026	0.0946	0.0975	0.0977	0.1005	0.0973	0.0984
EIRP(dBm)	20.12	20.05	20.11	19.76	19.89	19.90	20.02	19.88	19.93
EIRP(Watts)	0.1028	0.1012	0.1026	0.0946	0.0975	0.0977	0.1005	0.0973	0.0984

LTE Band 7 CA ($G_T - L_C = 0$ dB) 64QAM									
Bandwidth	15M+20M			20M+15M			20M + 20M		
Channel FCC	20828	21003	21179	20850	21026	21201	20850	21001	21152
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Channel SCC	20999	21174	21350	21021	21197	21372	21048	21199	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Conducted Power (dBm)	20.12	19.96	19.68	20.06	19.77	19.92	21.50	21.68	21.57
Conducted Power (Watts)	0.1028	0.0991	0.0929	0.1014	0.0948	0.0982	0.1413	0.1472	0.1435
EIRP(dBm)	20.12	19.96	19.68	20.06	19.77	19.92	21.50	21.68	21.57
EIRP(Watts)	0.1028	0.0991	0.0929	0.1014	0.0948	0.0982	0.1413	0.1472	0.1435



LTE Band 12 ($G_T - L_C = -4.0$ 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	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
(MHz)									
Conducted Power (dBm)	23.04	23.01	22.90	22.98	22.93	22.83	23.04	23.04	22.87
Conducted Power (Watts)	0.2014	0.2000	0.1950	0.1986	0.1963	0.1919	0.2014	0.2014	0.1936
ERP(dBm)	16.89	16.86	16.75	16.83	16.78	16.68	16.89	16.89	16.72
ERP(Watts)	0.0489	0.0485	0.0473	0.0482	0.0476	0.0466	0.0489	0.0489	0.0470

LTE Band 12 ($G_T - L_C = -4.0$ dB) QPSK			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency	704	707.5	711
(MHz)			
Conducted Power (dBm)	23.13	23.01	23.03
Conducted Power (Watts)	0.2056	0.2000	0.2009
ERP(dBm)	16.98	16.86	16.88
ERP(Watts)	0.0499	0.0485	0.0488



LTE Band 12 ($G_T - L_C = -4.0$ 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	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
(MHz)									
Conducted Power (dBm)	22.49	22.05	21.94	22.15	22.22	22.17	22.44	22.48	22.17
Conducted Power (Watts)	0.1774	0.1603	0.1563	0.1641	0.1667	0.1648	0.1754	0.1770	0.1648
ERP(dBm)	16.34	15.90	15.79	16.00	16.07	16.02	16.29	16.33	16.02
ERP(Watts)	0.0431	0.0389	0.0379	0.0398	0.0405	0.0400	0.0426	0.0430	0.0400

LTE Band 12 ($G_T - L_C = -4.0$ dB) 16QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency	704	707.5	711
(MHz)			
Conducted Power (dBm)	22.21	22.45	22.46
Conducted Power (Watts)	0.1663	0.1758	0.1762
ERP(dBm)	16.06	16.30	16.31
ERP(Watts)	0.0404	0.0427	0.0428



LTE Band 12 ($G_T - L_C = -4.0$ 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	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
(MHz)									
Conducted Power (dBm)	21.17	21.06	20.99	21.50	21.12	21.03	21.19	21.12	21.14
Conducted Power (Watts)	0.1309	0.1276	0.1256	0.1413	0.1294	0.1268	0.1315	0.1294	0.1300
ERP(dBm)	15.02	14.91	14.84	15.35	14.97	14.88	15.04	14.97	14.99
ERP(Watts)	0.0318	0.0310	0.0305	0.0343	0.0314	0.0308	0.0319	0.0314	0.0316

LTE Band 12 ($G_T - L_C = -4.0$ dB) 64QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency	704	707.5	711
(MHz)			
Conducted Power (dBm)	21.19	21.18	21.04
Conducted Power (Watts)	0.1315	0.1312	0.1271
ERP(dBm)	15.04	15.03	14.89
ERP(Watts)	0.0319	0.0318	0.0308



LTE Band 17 (G _T - L _C = -4.0 dB) QPSK						
Bandwidth	5M			10M		
Channel	23755	23790	23825	23780	23790	23800
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	706.5	710	713.5	709	710	711
(MHz)						
Conducted Power (dBm)	23.12	23.15	22.96	23.18	22.81	22.8
Conducted Power (Watts)	0.2051	0.2065	0.1977	0.2080	0.1910	0.1905
ERP(dBm)	16.97	17.00	16.81	17.03	16.66	16.65
ERP(Watts)	0.0498	0.0501	0.0480	0.0505	0.0463	0.0462

LTE Band 17 (G _T - L _C = -4.0 dB) 16QAM						
Bandwidth	5M			10M		
Channel	23755	23790	23825	23780	23790	23800
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	706.5	710	713.5	709	710	711
(MHz)						
Conducted Power (dBm)	22.49	22.49	22.22	22.34	21.98	22.08
Conducted Power (Watts)	0.1774	0.1774	0.1667	0.1714	0.1578	0.1614
ERP(dBm)	16.34	16.34	16.07	16.19	15.83	15.93
ERP(Watts)	0.0431	0.0431	0.0405	0.0416	0.0383	0.0392



LTE Band 17 ($G_T - L_C = -4.0$ dB) 64QAM						
Bandwidth	5M			10M		
Channel	23755	23790	23825	23780	23790	23800
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	706.5	710	713.5	709	710	711
(MHz)						
Conducted Power (dBm)	21.21	21.18	21.15	21.24	21.26	21.18
Conducted Power (Watts)	0.1321	0.1312	0.1303	0.1330	0.1337	0.1312
ERP(dBm)	15.06	15.03	15.00	15.09	15.11	15.03
ERP(Watts)	0.0321	0.0318	0.0316	0.0323	0.0324	0.0318



LTE Band 25 ($G_T - L_C = -0.5$ 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	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
(MHz)									
Conducted Power (dBm)	22.16	22.33	22.34	22.19	22.13	22.35	22.29	22.29	22.26
Conducted Power (Watts)	0.1644	0.1710	0.1714	0.1656	0.1633	0.1718	0.1694	0.1694	0.1683
EIRP(dBm)	21.66	21.83	21.84	21.69	21.63	21.85	21.79	21.79	21.76
EIRP(Watts)	0.1466	0.1524	0.1528	0.1476	0.1455	0.1531	0.1510	0.1510	0.1500

LTE Band 25 ($G_T - L_C = -0.5$ 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	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
(MHz)									
Conducted Power (dBm)	22.32	22.34	22.36	22.17	22.35	22.32	22.35	22.34	22.37
Conducted Power (Watts)	0.1706	0.1714	0.1722	0.1648	0.1718	0.1706	0.1718	0.1714	0.1726
EIRP(dBm)	21.82	21.84	21.86	21.67	21.85	21.82	21.85	21.84	21.87
EIRP(Watts)	0.1521	0.1528	0.1535	0.1469	0.1531	0.1521	0.1531	0.1528	0.1538



LTE Band 25 ($G_T - L_C = -0.5$ 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	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
(MHz)									
Conducted Power (dBm)	21.21	21.28	21.45	21.32	21.63	21.72	21.12	21.41	21.80
Conducted Power (Watts)	0.1321	0.1343	0.1396	0.1355	0.1455	0.1486	0.1294	0.1384	0.1514
EIRP(dBm)	20.71	20.78	20.95	20.82	21.13	21.22	20.62	20.91	21.30
EIRP(Watts)	0.1178	0.1197	0.1245	0.1208	0.1297	0.1324	0.1153	0.1233	0.1349

LTE Band 25 ($G_T - L_C = -0.5$ 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	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
(MHz)									
Conducted Power (dBm)	21.68	21.89	21.89	21.31	21.56	21.97	21.61	21.90	21.86
Conducted Power (Watts)	0.1472	0.1545	0.1545	0.1352	0.1432	0.1574	0.1449	0.1549	0.1535
EIRP(dBm)	21.18	21.39	21.43	20.81	21.06	21.47	21.11	21.40	21.36
EIRP(Watts)	0.1312	0.1377	0.1390	0.1205	0.1276	0.1403	0.1291	0.1380	0.1368



LTE Band 25 ($G_T - L_C = -0.5$ 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	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
(MHz)									
Conducted Power (dBm)	20.32	20.29	20.52	20.32	20.39	20.66	20.43	20.29	20.64
Conducted Power (Watts)	0.1076	0.1069	0.1127	0.1076	0.1094	0.1164	0.1104	0.1069	0.1159
EIRP(dBm)	19.82	19.79	20.02	19.82	19.89	20.16	19.93	19.79	20.14
EIRP(Watts)	0.0959	0.0953	0.1005	0.0959	0.0975	0.1038	0.0984	0.0953	0.1033

LTE Band 25 ($G_T - L_C = -0.5$ 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	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
(MHz)									
Conducted Power (dBm)	20.69	20.62	20.65	20.52	20.53	20.74	20.65	20.67	20.82
Conducted Power (Watts)	0.1172	0.1153	0.1161	0.1127	0.1130	0.1186	0.1161	0.1167	0.1208
EIRP(dBm)	20.19	20.12	20.15	20.02	20.03	20.24	20.15	20.17	20.32
EIRP(Watts)	0.1045	0.1028	0.1035	0.1005	0.1007	0.1057	0.1035	0.1040	0.1076



LTE Band 26 ($G_T - L_C = -2.0$ dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	23.08	23.10	23.09	23.07	23.10	23.24	23.03	23.15	23.09
Conducted Power (Watts)	0.2032	0.2042	0.2037	0.2028	0.2042	0.2109	0.2009	0.2065	0.2037
ERP(dBm)	18.93	18.95	18.94	18.92	18.95	19.09	18.88	19.00	18.94
ERP(Watts)	0.0782	0.0785	0.0783	0.0780	0.0785	0.0811	0.0773	0.0794	0.0783

LTE Band 26 ($G_T - L_C = -2.0$ dB) QPSK							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency	829	836.5	844	831.5	836.5	841.5	821.5
(MHz)							
Conducted Power (dBm)	23.12	23.26	23.32	23.37	23.34	23.31	23.17
Conducted Power (Watts)	0.2051	0.2118	0.2148	0.2173	0.2158	0.2143	0.2075
ERP(dBm)	18.97	19.11	19.17	19.22	19.19	19.16	19.02
ERP(Watts)	0.0789	0.0815	0.0826	0.0836	0.0830	0.0824	0.0798



LTE Band 26 ($G_T - L_C = -2.0$ dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	22.59	22.56	22.67	22.54	22.61	22.24	22.59	22.66	22.35
Conducted Power (Watts)	0.1816	0.1803	0.1849	0.1795	0.1824	0.1675	0.1816	0.1845	0.1718
ERP(dBm)	18.44	18.41	18.52	18.39	18.46	18.09	18.44	18.51	18.20
ERP(Watts)	0.0698	0.0693	0.0711	0.0690	0.0701	0.0644	0.0698	0.0710	0.0661

LTE Band 26 ($G_T - L_C = -2.0$ dB) 16QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency	829	836.5	844	831.5	836.5	841.5	821.5
(MHz)							
Conducted Power (dBm)	22.58	22.34	22.23	22.60	22.63	22.41	22.74
Conducted Power (Watts)	0.1811	0.1714	0.1671	0.1820	0.1832	0.1742	0.1879
ERP(dBm)	18.43	18.19	18.08	18.45	18.48	18.26	18.59
ERP(Watts)	0.0697	0.0659	0.0643	0.0700	0.0705	0.0670	0.0723



LTE Band 26 ($G_T - L_C = -2.0$ dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	21.11	20.94	21.05	21.14	21.02	21.09	21.14	20.99	21.12
Conducted Power (Watts)	0.1291	0.1242	0.1274	0.1300	0.1265	0.1285	0.1300	0.1256	0.1294
ERP(dBm)	16.96	16.79	16.90	16.99	16.87	16.94	16.99	16.84	16.97
ERP(Watts)	0.0497	0.0478	0.0490	0.0500	0.0486	0.0494	0.0500	0.0483	0.0498

LTE Band 26 ($G_T - L_C = -2.0$ dB) 64QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency	829	836.5	844	831.5	836.5	841.5	821.5
(MHz)							
Conducted Power (dBm)	21.20	20.97	21.09	21.15	21.12	21.18	21.28
Conducted Power (Watts)	0.1318	0.1250	0.1285	0.1303	0.1294	0.1312	0.1343
ERP(dBm)	17.05	16.82	16.94	17.00	16.97	17.03	17.13
ERP(Watts)	0.0507	0.0481	0.0494	0.0501	0.0498	0.0505	0.0516

LTE Band 38 ($G_T - L_C = 0$ dB) QPSK			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency	2572.5	2595	2617.5
(MHz)			
Conducted Power (dBm)	22.46	22.43	22.43
Conducted Power (Watts)	0.1762	0.1750	0.1750
EIRP(dBm)	22.46	22.43	22.43
EIRP(Watts)	0.1762	0.1750	0.1750

LTE Band 38 ($G_T - L_C = 0$ dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	37800	38000	38200	37825	38000	38175	37850	38000	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency	2575	2595	2615	2577.5	2595	2612.5	2580	2595	2610
(MHz)									
Conducted Power (dBm)	22.50	22.30	22.40	22.62	22.34	22.25	22.63	22.51	22.51
Conducted Power (Watts)	0.1778	0.1698	0.1738	0.1828	0.1714	0.1679	0.1832	0.1782	0.1782
EIRP(dBm)	22.50	22.30	22.40	22.62	22.34	22.25	22.63	22.51	22.51
EIRP(Watts)	0.1778	0.1698	0.1738	0.1828	0.1714	0.1679	0.1832	0.1782	0.1782



LTE Band 38 ($G_T - L_C = 0$ dB) 16QAM			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency	2572.5	2595	2617.5
(MHz)			
Conducted Power (dBm)	21.84	21.57	21.57
Conducted Power (Watts)	0.1528	0.1435	0.1435
EIRP(dBm)	21.84	21.57	21.57
EIRP(Watts)	0.1528	0.1435	0.1435

LTE Band 38 ($G_T - L_C = 0$ dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	37800	38000	38200	37825	38000	38175	37850	38000	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency	2575	2595	2615	2577.5	2595	2612.5	2580	2595	2610
(MHz)									
Conducted Power (dBm)	21.89	21.67	21.67	21.81	21.45	21.99	21.88	21.78	21.78
Conducted Power (Watts)	0.1545	0.1469	0.1469	0.1517	0.1396	0.1581	0.1542	0.1507	0.1507
EIRP(dBm)	21.89	21.67	21.67	21.81	21.45	21.99	21.88	21.78	21.78
EIRP(Watts)	0.1545	0.1469	0.1469	0.1517	0.1396	0.1581	0.1542	0.1507	0.1507



LTE Band 38 ($G_T - L_C = 0$ dB) 64QAM			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency	2572.5	2595	2617.5
(MHz)			
Conducted Power (dBm)	20.47	20.56	20.64
Conducted Power (Watts)	0.1114	0.1138	0.1159
EIRP(dBm)	20.47	20.56	20.64
EIRP(Watts)	0.1114	0.1138	0.1159

LTE Band 38 ($G_T - L_C = 0$ dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	37800	38000	38200	37825	38000	38175	37850	38000	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency	2575	2595	2615	2577.5	2595	2612.5	2580	2595	2610
(MHz)									
Conducted Power (dBm)	20.60	20.76	20.81	20.69	20.71	20.88	20.74	20.77	20.91
Conducted Power (Watts)	0.1148	0.1191	0.1205	0.1172	0.1178	0.1225	0.1186	0.1194	0.1233
EIRP(dBm)	20.60	20.76	20.81	20.69	20.71	20.88	20.74	20.77	20.91
EIRP(Watts)	0.1148	0.1191	0.1205	0.1172	0.1178	0.1225	0.1186	0.1194	0.1233

LTE Band 41 ($G_T - L_C = 0$ dB) QPSK									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
(MHz)									
Conducted Power (dBm)	22.09	22.28	22.08	22.18	22.24	22.19	22.13	22.16	21.69
Conducted Power (Watts)	0.1618	0.1690	0.1614	0.1652	0.1675	0.1656	0.1633	0.1644	0.1476
EIRP(dBm)	22.09	22.28	22.08	22.18	22.24	22.19	22.13	22.16	21.69
EIRP(Watts)	0.1618	0.1690	0.1614	0.1652	0.1675	0.1656	0.1633	0.1644	0.1476

LTE Band 41 ($G_T - L_C = 0$ dB) QPSK			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency	2506	2593	2680
(MHz)			
Conducted Power (dBm)	22.35	22.36	21.77
Conducted Power (Watts)	0.1718	0.1722	0.1503
EIRP(dBm)	22.35	22.36	21.77
EIRP(Watts)	0.1718	0.1722	0.1503



LTE Band 41 ($G_T - L_C = 0$ dB) 16QAM									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
(MHz)									
Conducted Power (dBm)	21.40	21.41	21.25	21.41	21.50	21.26	21.48	21.54	20.98
Conducted Power (Watts)	0.1380	0.1384	0.1334	0.1384	0.1413	0.1337	0.1406	0.1426	0.1253
EIRP(dBm)	21.40	21.41	21.25	21.41	21.50	21.26	21.48	21.54	20.98
EIRP(Watts)	0.1380	0.1384	0.1334	0.1384	0.1413	0.1337	0.1406	0.1426	0.1253

LTE Band 41 ($G_T - L_C = 0$ dB) 16QAM			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency	2506	2593	2680
(MHz)			
Conducted Power (dBm)	21.57	21.67	21.06
Conducted Power (Watts)	0.1435	0.1469	0.1276
EIRP(dBm)	21.57	21.67	21.06
EIRP(Watts)	0.1435	0.1469	0.1276



LTE Band 41 ($G_T - L_C = 0$ dB) 64QAM									
Bandwidth	5M			10M			15M		
Channel	39675	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
(MHz)									
Conducted Power (dBm)	20.48	20.61	20.97	20.48	20.58	20.21	20.53	20.55	20.41
Conducted Power (Watts)	0.1117	0.1151	0.1250	0.1117	0.1143	0.1050	0.1130	0.1135	0.1099
EIRP(dBm)	20.48	20.61	20.97	20.48	20.58	20.21	20.53	20.55	20.41
EIRP(Watts)	0.1117	0.1151	0.1250	0.1117	0.1143	0.1050	0.1130	0.1135	0.1099

LTE Band 41 ($G_T - L_C = 0$ dB) 64QAM			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency	2506	2593	2680
(MHz)			
Conducted Power (dBm)	20.53	20.77	20.30
Conducted Power (Watts)	0.1130	0.1194	0.1072
EIRP(dBm)	20.53	20.77	20.30
EIRP(Watts)	0.1130	0.1194	0.1072

LTE Band 41 CA ($G_T - L_C = 0$ dB) QPSK									
Bandwidth	15M + 15M			5M + 20M			20M + 5M		
Channel FCC	39725	40620	41169	39675	40620	41373	39750	40620	41448
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Channel SCC	39875	40770	41319	39792	40737	41490	39867	40737	41565
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Conducted Power (dBm)	22.18	22.34	22.28	22.24	22.24	22.15	22.22	22.25	22.18
Conducted Power (Watts)	0.1652	0.1714	0.1690	0.1675	0.1675	0.1641	0.1667	0.1679	0.1652
EIRP(dBm)	22.18	22.34	22.28	22.24	22.24	22.15	22.22	22.25	22.18
EIRP(Watts)	0.1652	0.1714	0.1690	0.1675	0.1675	0.1641	0.1667	0.1679	0.1652

LTE Band 41 CA ($G_T - L_C = 0$ dB) QPSK									
Bandwidth	10M + 20M			20M + 10M			15M + 20M		
Channel FCC	39700	40620	41346	39750	40620	41396	39725	40620	41319
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Channel SCC	39844	40764	41490	39894	40764	41540	39896	40791	40419
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Conducted Power (dBm)	22.20	22.11	22.18	22.32	22.26	22.21	22.20	22.16	21.93
Conducted Power (Watts)	0.1660	0.1626	0.1652	0.1706	0.1683	0.1663	0.1660	0.1644	0.1560
EIRP(dBm)	22.20	22.11	22.18	22.32	22.26	22.21	22.20	22.16	21.93
EIRP(Watts)	0.1660	0.1626	0.1652	0.1706	0.1683	0.1663	0.1660	0.1644	0.1560

LTE Band 41 CA ($G_T - L_C = 0$ dB) QPSK						
Bandwidth	20M+15M			20M+20M		
Channel FCC	39750	40620	41344	39750	40620	41292
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39921	40791	41515	39948	40818	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.21	22.31	22.28	22.35	22.31	22.27
Conducted Power (Watts)	0.1663	0.1702	0.1690	0.1718	0.1702	0.1687
EIRP(dBm)	22.21	22.31	22.28	22.35	22.21	22.27



EIRP(Watts)	0.1663	0.1702	0.1690	0.1718	0.1702	0.1687
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LTE Band 41 CA ($G_T - L_C = 0$ dB) 16QAM									
Bandwidth	15M + 15M			5M + 20M			20M + 5M		
Channel FCC	39725	40620	41169	39675	40620	41373	39750	40620	41448
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Channel SCC	39875	40770	41319	39792	40737	41490	39867	40737	41565
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Conducted Power (dBm)	22.11	22.23	22.12	22.12	22.07	21.87	22.16	22.12	22.07
Conducted Power (Watts)	0.1626	0.1671	0.1629	0.1629	0.1611	0.1538	0.1644	0.1629	0.1611
EIRP(dBm)	22.11	22.23	22.12	22.12	22.07	21.87	22.16	22.12	22.07
EIRP(Watts)	0.1626	0.1671	0.1629	0.1629	0.1611	0.1538	0.1644	0.1629	0.1611

LTE Band 41 CA ($G_T - L_C = 0$ dB) 16QAM									
Bandwidth	10M + 20M			20M + 10M			15M + 20M		
Channel FCC	39700	40620	41346	39750	40620	41396	39725	40620	41319
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Channel SCC	39844	40764	41490	39894	40764	41540	39896	40791	40419
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Conducted Power (dBm)	21.97	21.82	21.92	22.23	22.18	22.15	22.01	21.88	21.71
Conducted Power (Watts)	0.1574	0.1521	0.1556	0.1671	0.1652	0.1641	0.1589	0.1542	0.1483
EIRP(dBm)	21.97	21.82	21.92	22.23	22.18	22.15	22.01	21.88	21.71
EIRP(Watts)	0.1574	0.1521	0.1556	0.1671	0.1652	0.1641	0.1589	0.1542	0.1483

LTE Band 41 CA ($G_T - L_C = 0$ dB) 16QAM						
Bandwidth	20M+15M			20M+20M		
Channel FCC	39750	40620	41344	39750	40620	41292
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39921	40791	41515	39948	40818	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.09	22.23	22.21	22.24	22.30	22.18
Conducted Power (Watts)	0.1618	0.1671	0.1663	0.1675	0.1698	0.1652
EIRP(dBm)	22.09	22.23	22.21	22.24	22.30	22.18



EIRP(Watts)	0.1618	0.1671	0.1663	0.1675	0.1698	0.1652
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LTE Band 41 CA ($G_T - L_C = 0$ dB) 64QAM									
Bandwidth	15M + 15M			5M + 20M			20M + 5M		
Channel FCC	39725	40620	41169	39675	40620	41373	39750	40620	41448
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Channel SCC	39875	40770	41319	39792	40737	41490	39867	40737	41565
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Conducted Power (dBm)	20.88	21.12	20.95	21.12	20.86	20.79	21.03	20.98	20.92
Conducted Power (Watts)	0.1225	0.1294	0.1245	0.1294	0.1219	0.1199	0.1268	0.1253	0.1236
EIRP(dBm)	20.88	21.12	20.95	21.12	20.86	20.79	21.03	20.98	20.92
EIRP(Watts)	0.1225	0.1294	0.1245	0.1294	0.1219	0.1199	0.1268	0.1253	0.1236

LTE Band 41 CA ($G_T - L_C = 0$ dB) 64QAM									
Bandwidth	10M + 20M			20M + 10M			15M + 20M		
Channel FCC	39700	40620	41346	39750	40620	41396	39725	40620	41319
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Channel SCC	39844	40764	41490	39894	40764	41540	39896	40791	40419
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Conducted Power (dBm)	21.12	20.88	20.97	21.05	21.03	20.95	20.45	20.22	20.11
Conducted Power (Watts)	0.1294	0.1225	0.1250	0.1274	0.1268	0.1245	0.1109	0.1052	0.1026
EIRP(dBm)	21.12	20.88	20.97	21.05	21.03	20.95	20.45	20.22	20.11
EIRP(Watts)	0.1294	0.1225	0.1250	0.1274	0.1268	0.1245	0.1109	0.1052	0.1026

LTE Band 41 CA ($G_T - L_C = 0$ dB) 64QAM						
Bandwidth	20M+15M			20M+20M		
Channel FCC	39750	40620	41344	39750	40620	41292
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39921	40791	41515	39948	40818	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	20.92	20.93	21.00	20.95	20.75	20.55
Conducted Power (Watts)	0.1236	0.1239	0.1259	0.1245	0.1189	0.1135
EIRP(dBm)	20.92	20.93	21.00	20.95	20.75	20.55



EIRP(Watts)	0.1236	0.1239	0.1259	0.1245	0.1189	0.1135
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LTE Band 66 ($G_T - L_C = -0.5$ 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	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
(MHz)									
Conducted Power (dBm)	22.50	22.51	22.48	22.51	22.52	22.48	22.49	22.54	22.47
Conducted Power (Watts)	0.1778	0.1782	0.1770	0.1782	0.1786	0.1770	0.1774	0.1795	0.1766
EIRP(dBm)	22.00	22.01	21.98	22.01	22.02	21.98	21.99	22.04	21.97
EIRP(Watts)	0.1585	0.1589	0.1578	0.1589	0.1592	0.1578	0.1581	0.1600	0.1574

LTE Band 66 ($G_T - L_C = -0.5$ 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	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
(MHz)									
Conducted Power (dBm)	22.57	22.64	22.53	22.43	22.59	22.51	22.82	22.85	22.70
Conducted Power (Watts)	0.1807	0.1837	0.1791	0.1750	0.1816	0.1782	0.1914	0.1928	0.1862
EIRP(dBm)	22.07	22.14	22.03	21.93	22.09	22.01	22.32	22.35	22.20
EIRP(Watts)	0.1611	0.1637	0.1596	0.1560	0.1618	0.1589	0.1706	0.1718	0.1660



LTE Band 66 ($G_T - L_C = -0.5$ 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	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
(MHz)									
Conducted Power (dBm)	21.82	21.79	21.84	21.86	21.79	21.83	21.82	21.81	21.91
Conducted Power (Watts)	0.1521	0.1510	0.1528	0.1535	0.1510	0.1524	0.1521	0.1517	0.1552
EIRP(dBm)	21.32	21.29	21.34	21.36	21.29	21.33	21.32	21.31	21.41
EIRP(Watts)	0.1355	0.1346	0.1361	0.1368	0.1346	0.1358	0.1355	0.1352	0.1384

LTE Band 66 ($G_T - L_C = -0.5$ 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	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
(MHz)									
Conducted Power (dBm)	21.90	21.84	21.84	22.01	21.98	22.02	22.14	22.00	22.01
Conducted Power (Watts)	0.1549	0.1528	0.1528	0.1589	0.1578	0.1592	0.1637	0.1585	0.1589
EIRP(dBm)	21.40	21.34	21.34	21.51	21.48	21.52	21.64	21.50	21.51
EIRP(Watts)	0.1380	0.1361	0.1361	0.1416	0.1406	0.1419	0.1459	0.1413	0.1416



LTE Band 66 ($G_T - L_C = -0.5$ 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	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
(MHz)									
Conducted Power (dBm)	21.82	21.79	21.84	21.86	21.79	21.83	21.82	21.81	21.91
Conducted Power (Watts)	0.1521	0.1510	0.1528	0.1535	0.1510	0.1524	0.1521	0.1517	0.1552
EIRP(dBm)	21.32	21.29	21.34	21.36	21.29	21.33	21.32	21.31	21.41
EIRP(Watts)	0.1355	0.1346	0.1361	0.1368	0.1346	0.1358	0.1355	0.1352	0.1384

LTE Band 66 ($G_T - L_C = -0.5$ 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	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
(MHz)									
Conducted Power (dBm)	21.90	21.84	21.84	22.01	21.98	22.02	22.14	22.00	22.01
Conducted Power (Watts)	0.1549	0.1528	0.1528	0.1589	0.1578	0.1592	0.1637	0.1585	0.1589
EIRP(dBm)	21.40	21.34	21.34	21.51	21.48	21.52	21.64	21.50	21.51
EIRP(Watts)	0.1380	0.1361	0.1361	0.1416	0.1406	0.1419	0.1459	0.1413	0.1416

Peak-to-Average Ratio

Mode	LTE Band 2 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.74	4.38	4.2	5.57	PASS
Middle CH	3.33	4.58	4.14	5.71	
Highest CH	3.54	4.75	4.29	5.74	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	4.61	5.74	PASS		
Middle CH	4.32	5.71			
Highest CH	4.9	5.68			

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.74	4.87	4.58	5.97	PASS
Middle CH	4.55	5.01	5.39	6.03	
Highest CH	4.55	5.01	5.07	5.97	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	4.35	5.91	PASS		
Middle CH	5.54	5.88			
Highest CH	5.22	6.00			

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.55	5.13	5.28	5.94	PASS
Middle CH	4.55	5.1	5.33	6	
Highest CH	4.58	5.07	5.28	5.88	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.51	5.94	PASS		
Middle CH	5.39	5.91			
Highest CH	5.54	5.88			



Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.09	4.99	5.01	5.97	PASS
Middle CH	4.55	4.99	5.57	5.91	
Highest CH	4.58	4.9	5.51	5.97	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	4.93	5.91	PASS		
Middle CH	5.51	5.88			
Highest CH	5.36	5.86			

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.55	5.07	5.28	5.88	PASS
Middle CH	4.52	5.16	5.51	5.94	
Highest CH	4.58	5.13	5.22	5.94	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.42	5.91	PASS		
Middle CH	5.48	5.91			
Highest CH	5.16	5.97			

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.52	5.13	5.3	5.88	PASS
Middle CH	4.55	5.07	5.28	6.03	
Highest CH	4.52	4.99	5.19	5.91	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	4.52	5.07	PASS		
Middle CH	4.49	5.1			
Highest CH	4.49	5.13			



Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.2	4.87	4.7	5.62	PASS
Middle CH	3.42	4.96	3.97	5.86	
Highest CH	3.8	4.9	4.61	5.88	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.16	5.94	PASS		
Middle CH	4.41	5.88			
Highest CH	4.96	5.65			

Mode	LTE Band 26 / 15MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.52	5.16	5.48	6	PASS
Middle CH	4.58	5.19	5.25	6.09	
Highest CH	4.55	5.1	5.3	6.09	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.25	6	PASS		
Middle CH	5.48	5.94			
Highest CH	5.19	5.94			

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.75	6.72	5.07	6.03	PASS
Middle CH	5.19	5.51	6.58	5.88	
Highest CH	6.32	7.88	5.39	7.68	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	7.65	7.57	PASS		
Middle CH	5.48	7.74			
Highest CH	5.04	8.87			



Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.54	6.23	7.91	9.36	PASS
Middle CH	9.97	9.45	7.22	8.23	
Highest CH	6.2	6.99	5.57	7.8	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	7.22	6.84	PASS		
Middle CH	4.78	9.04			
Highest CH	6.52	7.54			

Mode	LTE Band 66 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.57	4.84	4.72	5.83	PASS
Middle CH	4.55	5.01	5.54	5.91	
Highest CH	4.58	4.84	5.28	5.8	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	4.52	5.88	PASS		
Middle CH	5.22	5.91			
Highest CH	5.51	5.86			

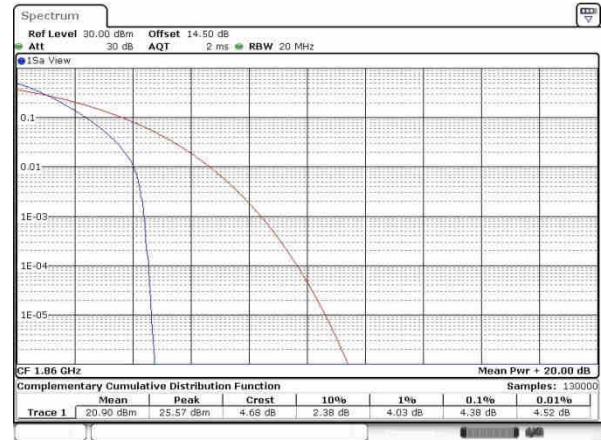


LTE Band 2 / 20MHz / QPSK

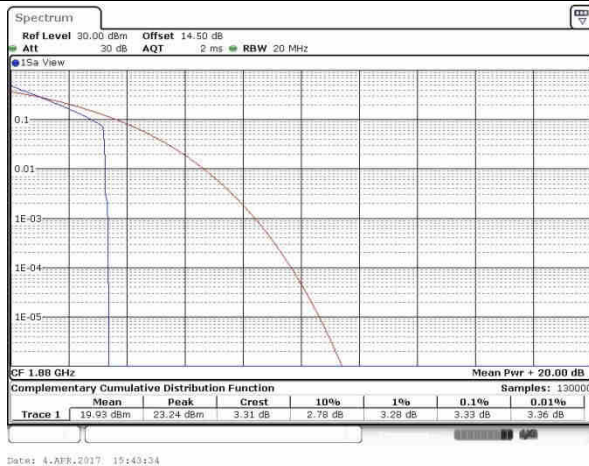
Lowest Channel / 1RB



Lowest Channel / Full RB



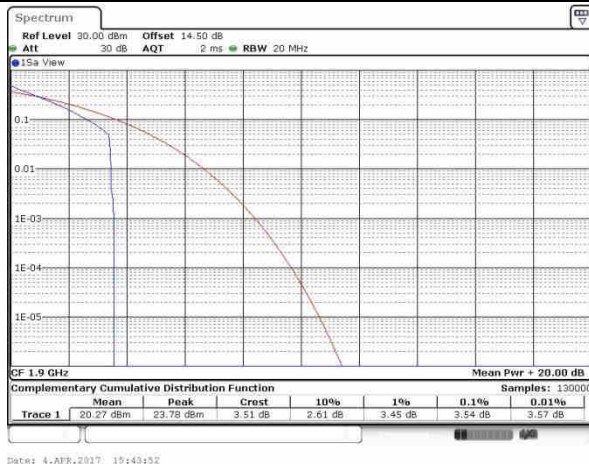
Middle Channel / 1RB



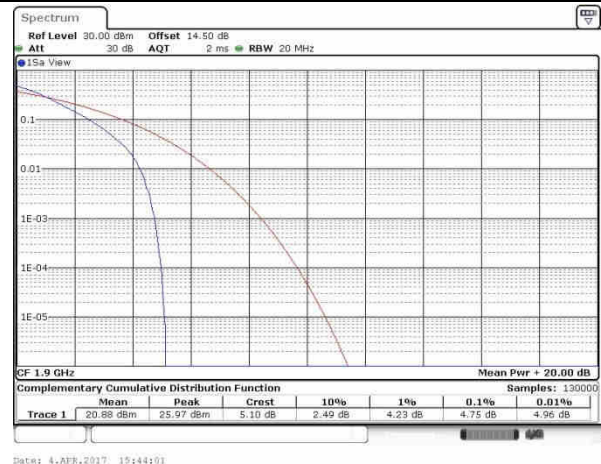
Middle Channel / Full RB

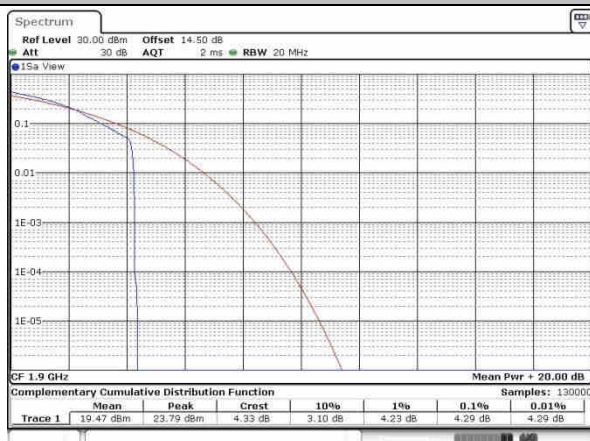


Highest Channel / 1RB



Highest Channel / Full RB



**LTE Band 2 / 20MHz / 16QAM****Lowest Channel / 1RB****Lowest Channel / Full RB****Middle Channel / 1RB****Middle Channel / Full RB****Highest Channel / 1RB****Highest Channel / Full RB**



LTE Band 2 / 20MHz / 64QAM

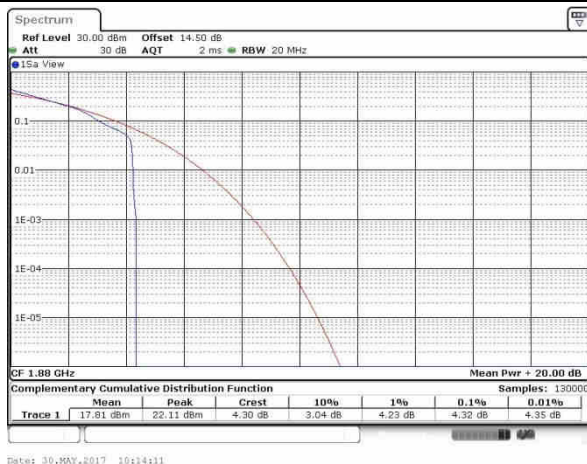
Lowest Channel / 1RB



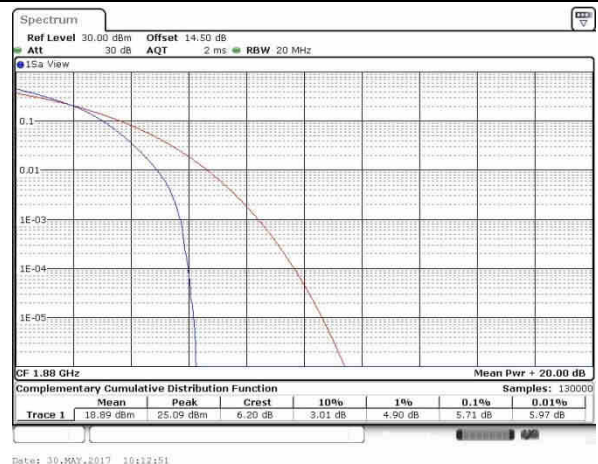
Lowest Channel / Full RB



Middle Channel / 1RB



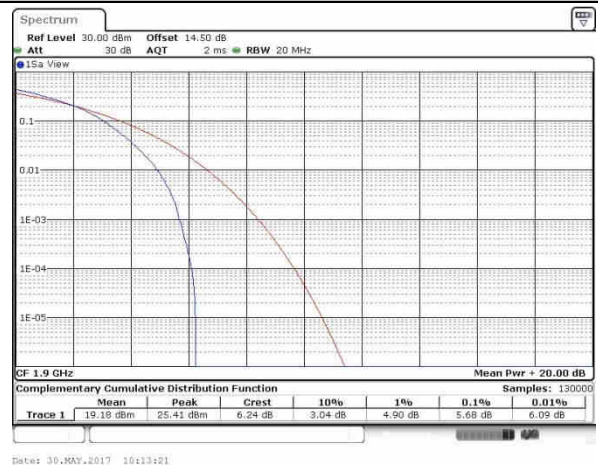
Middle Channel / Full RB

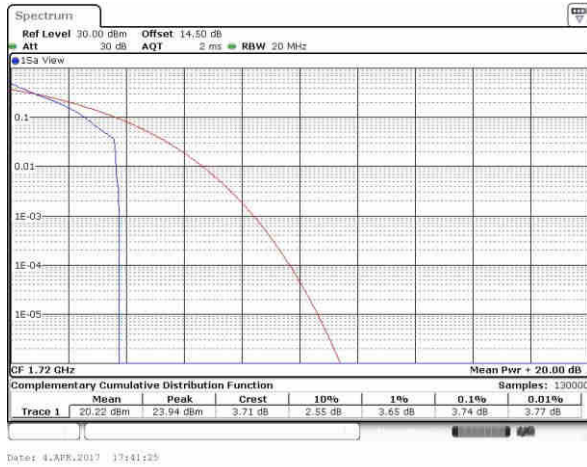
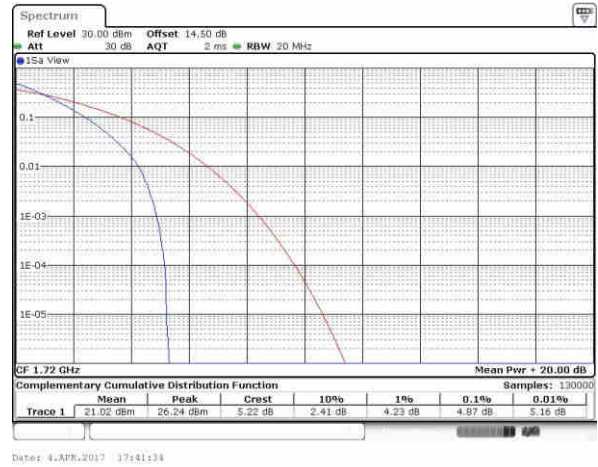
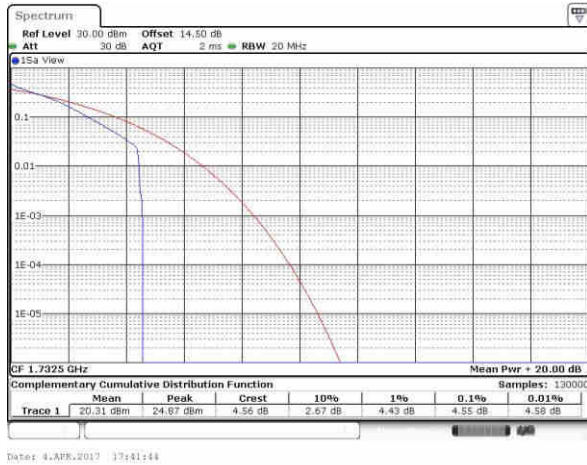


Highest Channel / 1RB



Highest Channel / Full RB

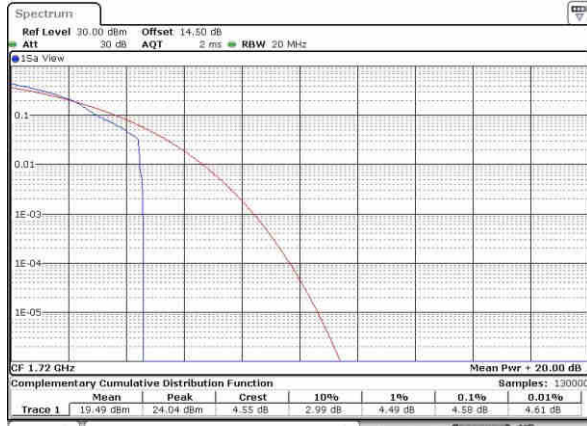


**LTE Band 4 / 20MHz / QPSK****Lowest Channel / 1RB****Lowest Channel / Full RB****Middle Channel / 1RB****Middle Channel / Full RB****Highest Channel / 1RB****Highest Channel / Full RB**



LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



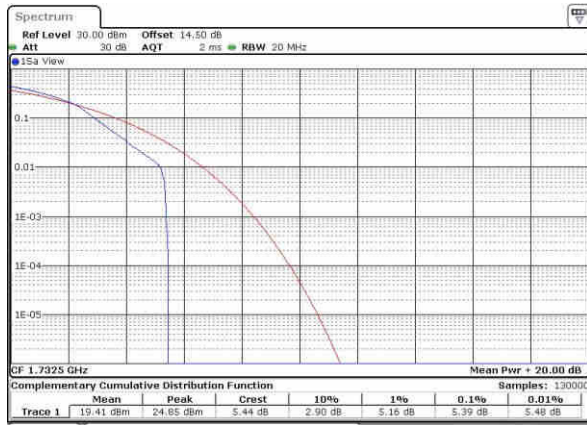
Date: 4.APR.2017 17:40:31

Lowest Channel / Full RB



Date: 4.APR.2017 17:40:40

Middle Channel / 1RB



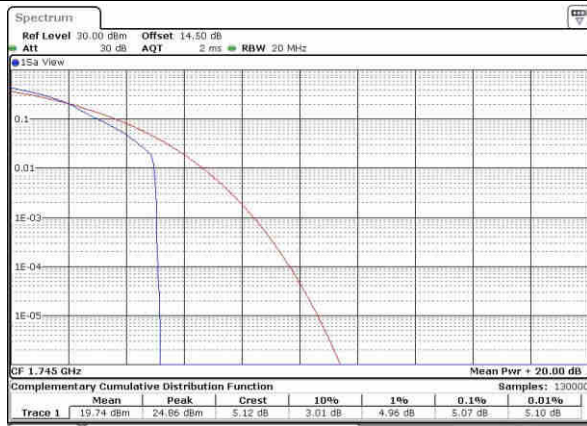
Date: 4.APR.2017 17:40:49

Middle Channel / Full RB



Date: 4.APR.2017 17:40:58

Highest Channel / 1RB



Date: 4.APR.2017 17:41:07

Highest Channel / Full RB



Date: 4.APR.2017 17:41:16



LTE Band 4 / 20MHz / 64QAM

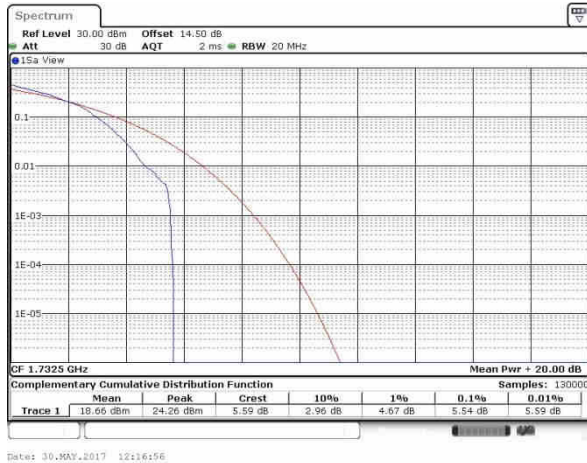
Lowest Channel / 1RB



Lowest Channel / Full RB



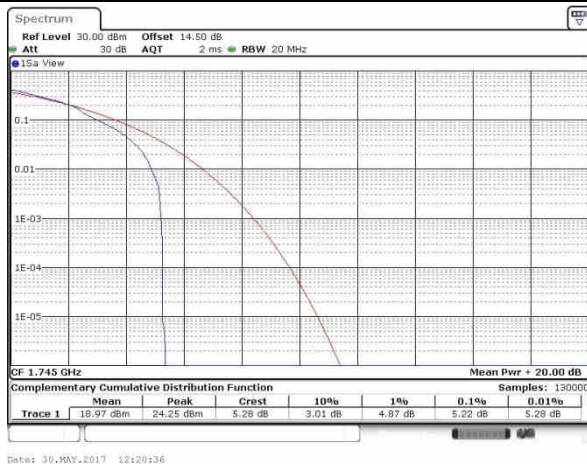
Middle Channel / 1RB



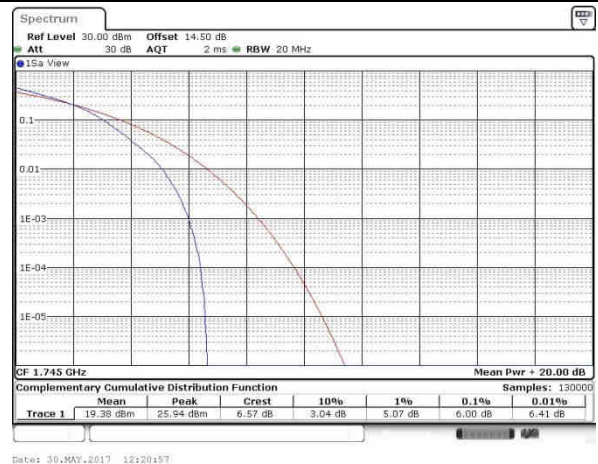
Middle Channel / Full RB

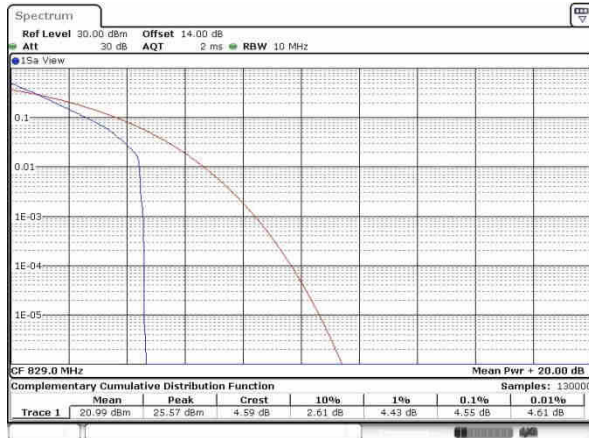


Highest Channel / 1RB

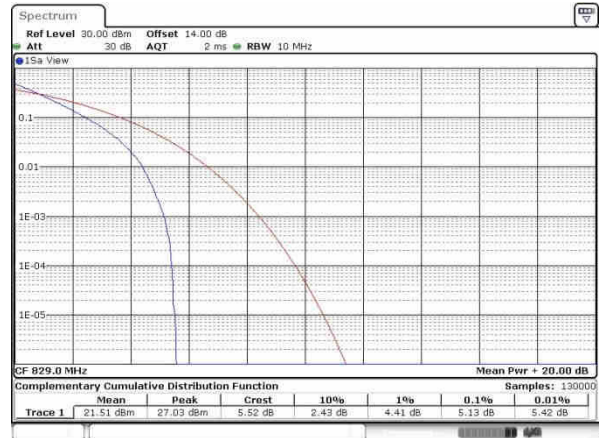


Highest Channel / Full RB

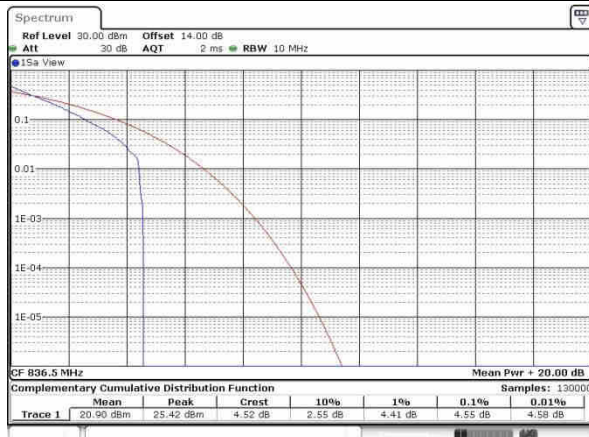


**LTE Band 5 / 10MHz / QPSK****Lowest Channel / 1RB**

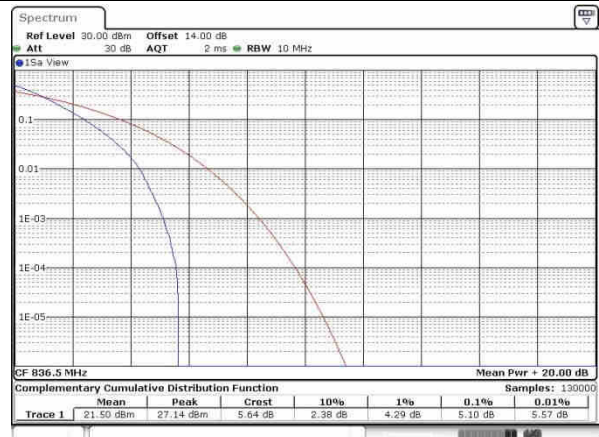
Date: 12 APR 2017 21:39:09

Lowest Channel / Full RB

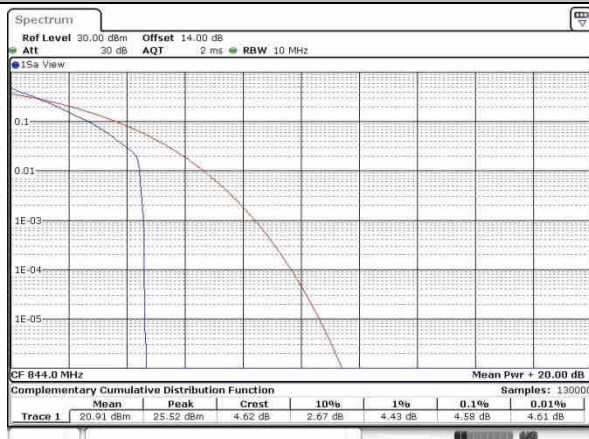
Date: 12 APR 2017 21:39:18

Middle Channel / 1RB

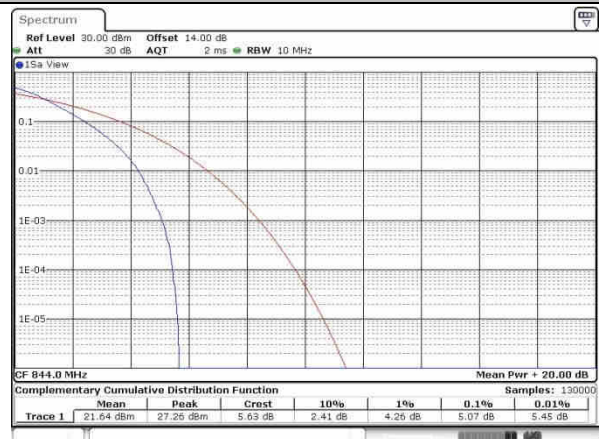
Date: 12 APR 2017 21:39:27

Middle Channel / Full RB

Date: 12 APR 2017 21:39:36

Highest Channel / 1RB

Date: 12 APR 2017 21:39:45

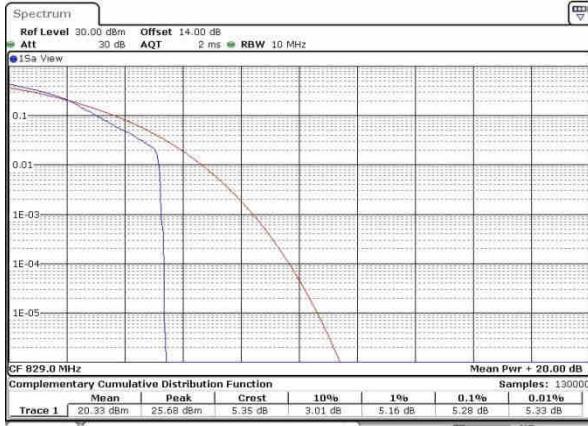
Highest Channel / Full RB

Date: 12 APR 2017 21:39:53



LTE Band 5 / 10MHz / 16QAM

Lowest Channel / 1RB



Date: 12 APR 2017 21:38:15

Lowest Channel / Full RB



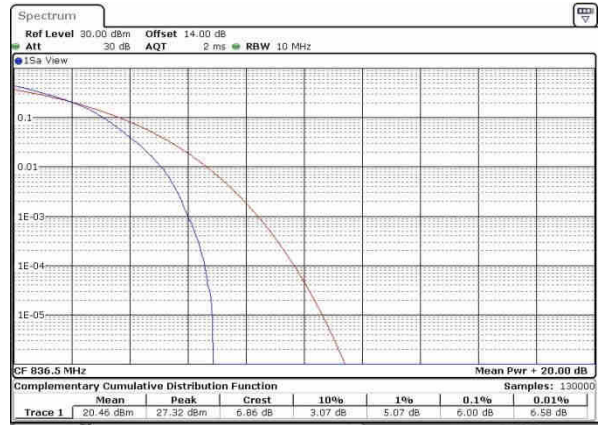
Date: 12 APR 2017 21:38:24

Middle Channel / 1RB



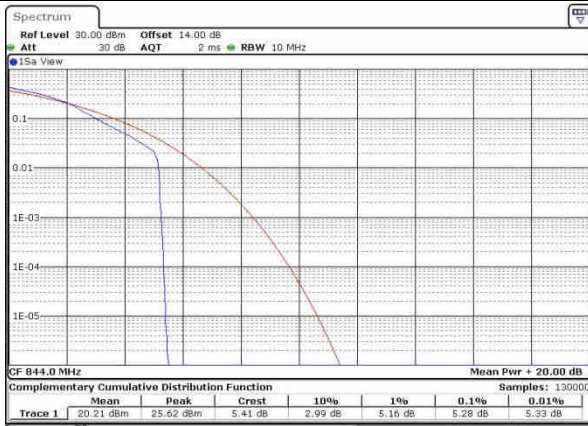
Date: 12 APR 2017 21:38:33

Middle Channel / Full RB



Date: 12 APR 2017 21:38:42

Highest Channel / 1RB



Date: 12 APR 2017 21:38:51

Highest Channel / Full RB



Date: 12 APR 2017 21:39:00



LTE Band 5 / 10MHz / 64QAM

Lowest Channel / 1RB



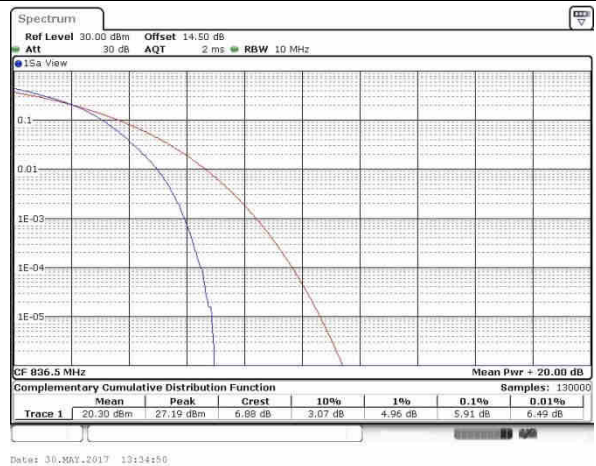
Lowest Channel / Full RB



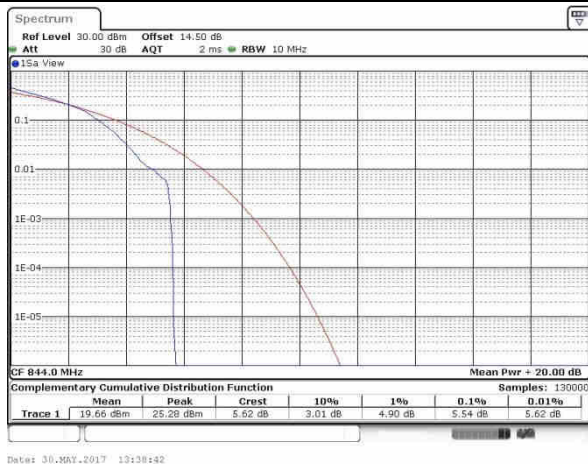
Middle Channel / 1RB



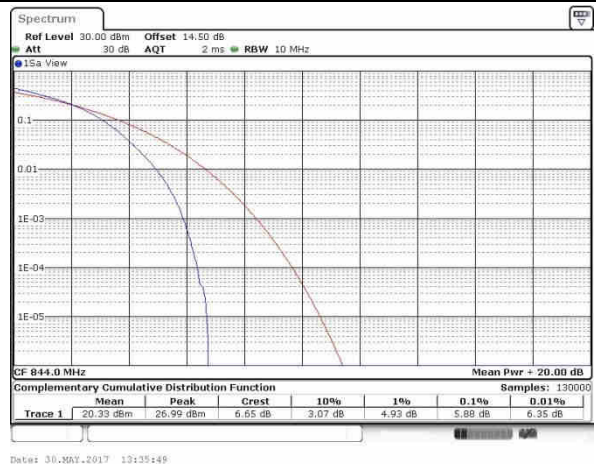
Middle Channel / Full RB



Highest Channel / 1RB



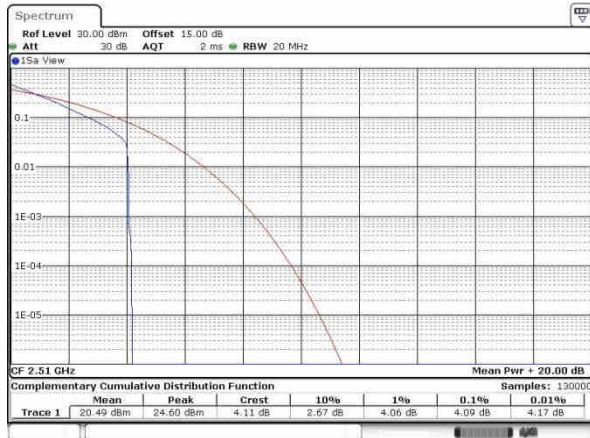
Highest Channel / Full RB



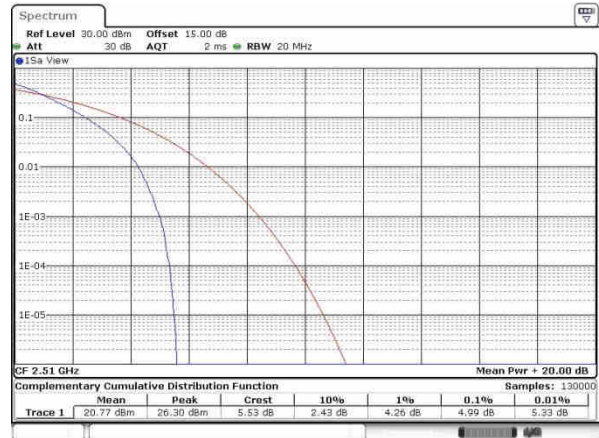


LTE Band 7 / 20MHz / QPSK

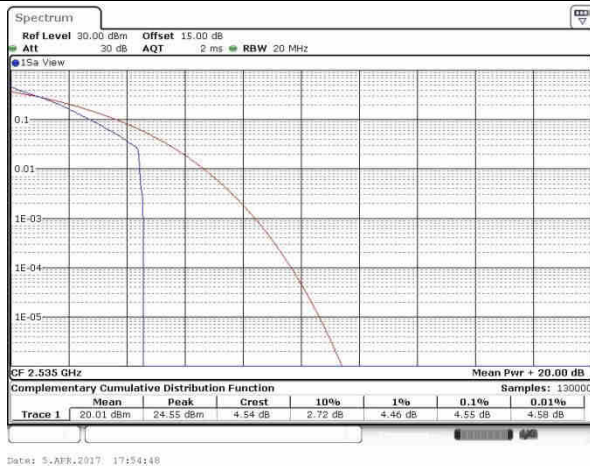
Lowest Channel / 1RB



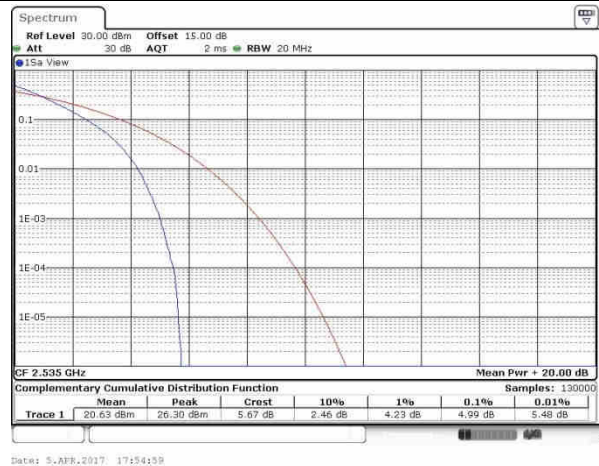
Lowest Channel / Full RB



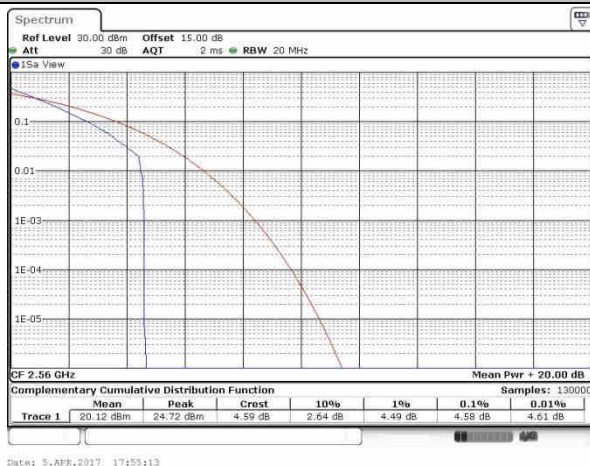
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



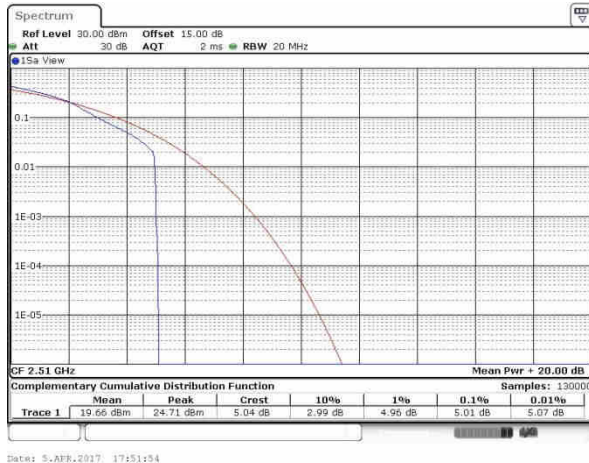
Highest Channel / Full RB



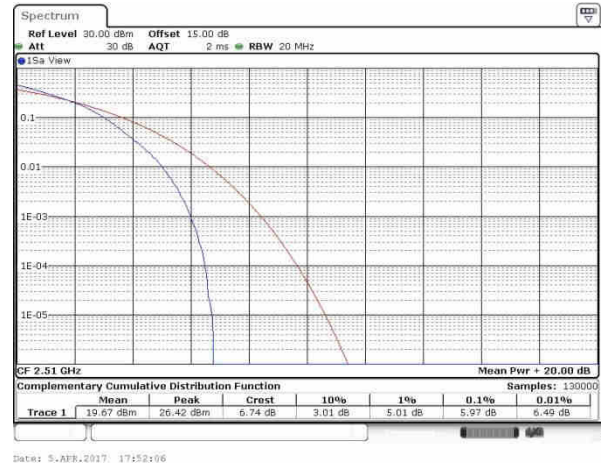


LTE Band 7 / 20MHz / 16QAM

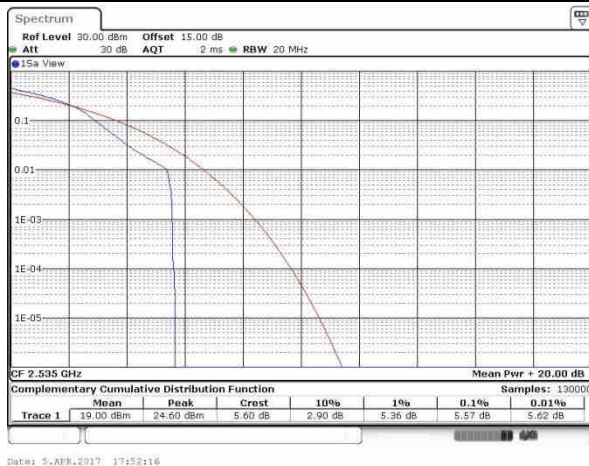
Lowest Channel / 1RB



Lowest Channel / Full RB



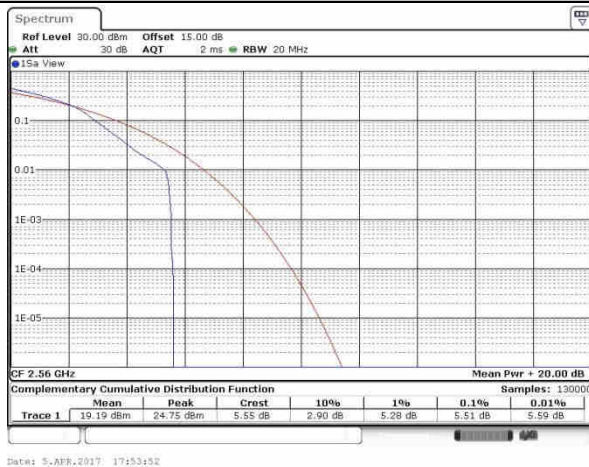
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



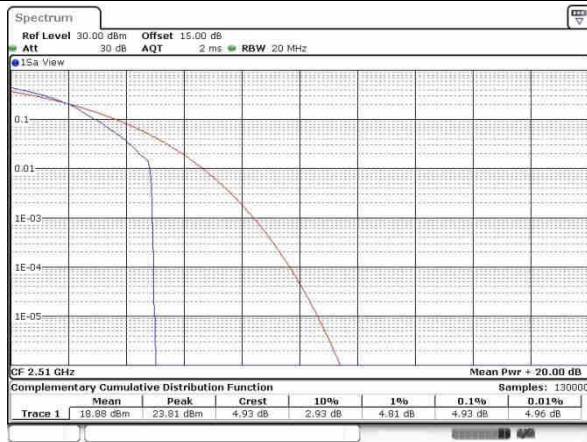
Highest Channel / Full RB



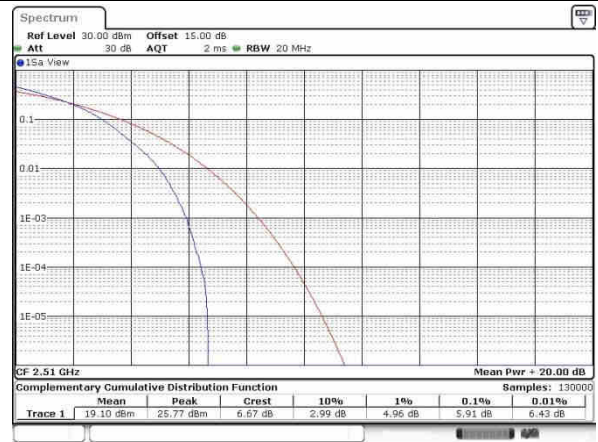


LTE Band 7 / 20MHz / 64QAM

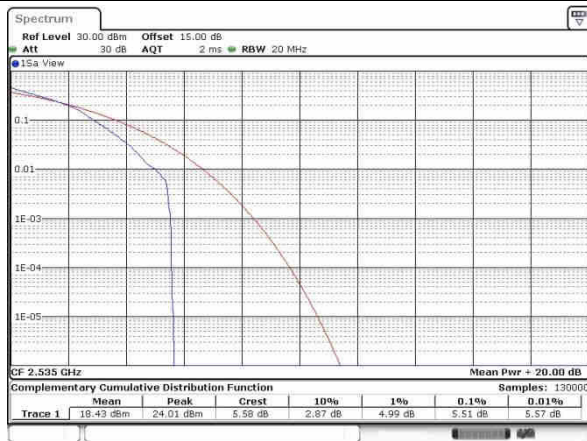
Lowest Channel / 1RB



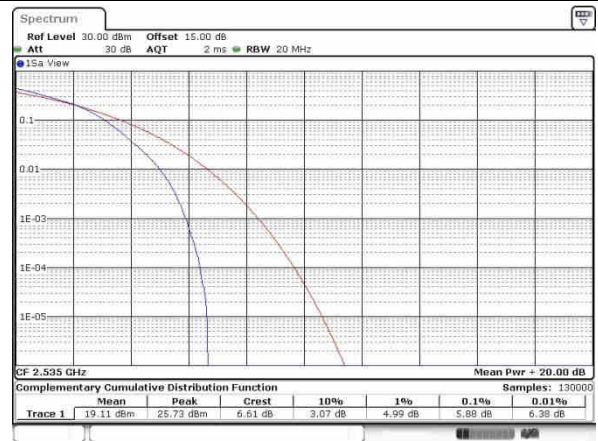
Lowest Channel / Full RB



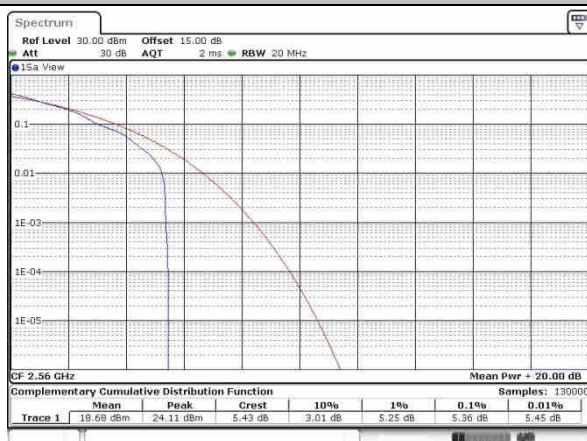
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

