FCC RF Test Report

APPLICANT	:	Quectel Wireless Solutions Co., Ltd.
EQUIPMENT	:	LTE-A Cat 18 LGA Module
BRAND NAME	:	Quectel
MODEL NAME	:	EG18-NA
FCC ID	:	XMR202002EG18NA
STANDARD	:	47 CFR Part 2, 22(H), 24(E), 27(L), 27(H), 27(F), 27(M), 27(N)
CLASSIFICATION	:	PCS Licensed Transmitter (PCB)

The product was received on Nov. 14, 2019 and completely tested on Feb. 24, 2020. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Jason Jia

Reviewed by: Jason Jia / Supervisor

James Huang

Approved by: James Huang / Manager

ACCREDITED Cert #5145.02

Sporton International (Kunshan) Inc.
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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG9N1414B	Rev. 01	Initial issue of report	Apr. 01, 2020

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power (Band 5) (Band 26)	ERP < 7 Watt	PASS	-
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 71)	ERP < 3 Watt	PASS	-
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 25) (Band 7) (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(c)(2)(4) §27.53(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 25) (Band 26) (Band 66) (Band 71)	< 43+10log10(P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 41)	§27.53(m)(4)		
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(g) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 25) (Band 26) (Band 66) (Band 71)	< 43+10log10(P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (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(c)(2) §27.53(f) §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 25) (Band 26) (Band 66) (Band 71)	< $43+10\log_{10}$(P[Watts])	PASS	Under limit 17.00 dB at 15440.000 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 41)	< $55+10\log_{10}$(P[Watts])		

Declaration of Conformity:

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

Comments and Explanations:

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

1 General Description

1.1 Applicant

Quectel Wireless Solutions Co., Ltd.
Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

1.2 Manufacturer

Quectel Wireless Solutions Co., Ltd.
Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	LTE-A Cat 18 LGA Module
Brand Name	Quectel
Model Name	EG18-NA
FCC ID	XMR202002EG18NA
EUT supports Radios application	WCDMA/LTE/GNSS
HW Version	R1.0
SW Version	EG18NAPAR01A04M4G
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz LTE Band 12 : 699.7 MHz ~ 715.3 MHz LTE Band 13 : 779.5 MHz ~ 784.5 MHz LTE Band 25 : 1850.7MHz ~ 1914.3 MHz LTE Band 26 : 824.7MHz ~ 848.3 MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz LTE Band 66 : 1710.7 MHz ~ 1779.3 MHz LTE Band 71: 665.5 MHz ~ 695.5MHz
Rx Frequency	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 7 : 2622.5MHz ~ 2687.5 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz LTE Band 25 : 1930.7MHz ~ 1994.3 MHz LTE Band 26 : 869.7MHz ~ 893.3MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 MHz LTE Band 66 : 2110.7 MHz~ 2179.3 MHz LTE Band 71: 619.5 MHz ~ 649.5MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz LTE Band 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 66 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 71 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 2 : 23.09 dBm LTE Band 4 : 23.21 dBm LTE Band 5 : 23.03 dBm LTE Band 7 : 23.12 dBm LTE Band 7C_CA : 23.24 dBm LTE Band 12 : 22.83 dBm LTE Band 13 : 22.76 dBm LTE Band 25 : 23.10 dBm LTE Band 26 : 23.06 dBm LTE Band 41 : 23.34 dBm LTE Band 41C_CA : 23.28 dBm LTE Band 66 : 23.22 dBm LTE Band 71 : 23.73 dBm

Antenna Gain	LTE Band 2 : 1.59 dBi LTE Band 4 : 2.00 dBi LTE Band 5 : 2.53 dBi LTE Band 7 : 3.00 dBi LTE Band 12 : 3.95 dBi LTE Band 13 : 4.45 dBi LTE Band 25 : 1.59 dBi LTE Band 26 : 2.53 dBi LTE Band 41 : 3.60 dBi LTE Band 66 : 2.00 dBi LTE Band 71 : 1.66 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 Conducted Power, Frequency Tolerance, and Emission Designator

LTE Band 2		QPSK			16QAM		
BW (MHz)	**Frequency Range (MHz)**	**Emission Designator (99%OBW)**	**Frequency Tolerance (ppm)**	**Maximum Conducted power (W)**	**Emission Designator (99%OBW)**	**Frequency Tolerance (ppm)**	**Maximum Conducted power (W)**
1.4	1850.7 ~ 1909.3	1M10G7D	-	0.1945	1M10W7D	-	0.1698
3	1851.5 ~ 1908.5	2M74G7D	-	0.1945	2M74W7D	-	0.1714
5	1852.5 ~ 1907.5	4M50G7D	-	0.1963	4M50W7D	-	0.1726
10	1855.0 ~ 1905.0	9M07G7D	0.0043	0.1982	9M03W7D	-	0.1734
15	1857.5 ~ 1902.5	13M5G7D	-	0.2028	13M5W7D	-	0.1754
20	1860.0 ~ 1900.0	18M4G7D	-	0.2037	18M3W7D	-	0.1722

LTE Band 2		64QAM		
BW (MHz)	**Frequency Range (MHz)**	**Emission Designator (99%OBW)**	**Frequency Tolerance (ppm)**	**Maximum Conducted power (W)**
1.4	1850.7 ~ 1909.3	1M09W7D	-	0.1330
3	1851.5 ~ 1908.5	2M73W7D	-	0.1352
5	1852.5 ~ 1907.5	4M53W7D	-	0.1355
10	1855.0 ~ 1905.0	9M03W7D	-	0.1343
15	1857.5 ~ 1902.5	13M5W7D	-	0.1355
20	1860.0 ~ 1900.0	18M4W7D	-	0.1346

LTE Band 25		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
1.4	1850.7 ~ 1914.3	1M10G7D	-	0.1905	1M10W7D	-	0.1652
3	1851.5 ~ 1913.5	2M74G7D	-	0.1892	2M74W7D	-	0.1622
5	1852.5 ~ 1912.5	4M50G7D	-	0.1928	4M50W7D	-	0.1648
10	1855.0 ~ 1910.0	9M07G7D	0.0043	0.1950	9M03W7D	-	0.1622
15	1857.5 ~ 1907.5	13M5G7D	-	0.1914	13M5W7D	-	0.1614
20	1860.0 ~ 1905.0	18M4G7D	-	0.2042	18M3W7D	-	0.1648

LTE Band 25		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
1.4	1850.7 ~ 1914.3	1M09W7D	-	0.1282
3	1851.5 ~ 1913.5	2M73W7D	-	0.1288
5	1852.5 ~ 1912.5	4M53W7D	-	0.1294
10	1855.0 ~ 1910.0	9M03W7D	-	0.1285
15	1857.5 ~ 1907.5	13M5W7D	-	0.1294
20	1860.0 ~ 1905.0	18M4W7D	-	0.1288

LTE Band 4		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
1.4	1710.7 ~ 1754.3	1M09G7D	-	0.2014	1M09W7D	-	0.1687
3	1711.5 ~ 1753.5	2M73G7D	-	0.2009	2M73W7D	-	0.1679
5	1712.5 ~ 1752.5	4M49G7D	-	0.2014	4M50W7D	-	0.1738
10	1715.0 ~ 1750.0	9M03G7D	0.0034	0.2009	9M05W7D	-	0.1726
15	1717.5 ~ 1747.5	13M5G7D	-	0.2089	13M5W7D	-	0.1791
20	1720.0 ~ 1745.0	18M3G7D	-	0.2094	18M4W7D	-	0.1726

LTE Band 4		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
1.4	1710.7 ~ 1754.3	1M09W7D	-	0.1330
3	1711.5 ~ 1753.5	2M73W7D	-	0.1334
5	1712.5 ~ 1752.5	4M50W7D	-	0.1365
10	1715.0 ~ 1750.0	9M03W7D	-	0.1346
15	1717.5 ~ 1747.5	13M5W7D	-	0.1419
20	1720.0 ~ 1745.0	18M5W7D	-	0.1396

LTE Band 66		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
1.4	1710.7 ~ 1779.3	1M09G7D	-	0.1932	1M09W7D	-	0.1660
3	1711.5 ~ 1778.5	2M73G7D	-	0.1923	2M73W7D	-	0.1644
5	1712.5 ~ 1777.5	4M49G7D	-	0.1928	4M50W7D	-	0.1663
10	1715.0 ~ 1775.0	9M03G7D	0.0034	0.1941	9M05W7D	-	0.1648
15	1717.5 ~ 1772.5	13M5G7D	-	0.1991	13M5W7D	-	0.1671
20	1720.0 ~ 1770.0	18M3G7D	-	0.2099	18M4W7D	-	0.1718

LTE Band 66		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
1.4	1710.7 ~ 1779.3	1M09W7D	-	0.1297
3	1711.5 ~ 1778.5	2M73W7D	-	0.1297
5	1712.5 ~ 1777.5	4M50W7D	-	0.1297
10	1715.0 ~ 1775.0	9M03W7D	-	0.1321
15	1717.5 ~ 1772.5	13M5W7D	-	0.1300
20	1720.0 ~ 1770.0	18M5W7D	-	0.1327

LTE Band 5		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
1.4	824.7 ~ 848.3	1M09G7D	-	0.1972	1M09W7D	-	0.1679
3	825.5 ~ 847.5	2M73G7D	-	0.1995	2M73W7D	-	0.1718
5	826.5 ~ 846.5	4M50G7D	-	0.2000	4M50W7D	-	0.1738
10	829.0 ~ 844.0	9M17G7D	0.0093	0.2009	9M03W7D	-	0.1730

LTE Band 5		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
1.4	824.7 ~ 848.3	1M10W7D	-	0.1315
3	825.5 ~ 847.5	2M73W7D	-	0.1340
5	826.5 ~ 846.5	4M51W7D	-	0.1365
10	829.0 ~ 844.0	9M01W7D	-	0.1361

LTE Band 26		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
1.4	824.7 ~ 848.3	1M09G7D	-	0.1871	1M09W7D	-	0.1607
3	825.5 ~ 847.5	2M73G7D	-	0.1905	2M73W7D	-	0.1648
5	826.5 ~ 846.5	4M50G7D	-	0.1928	4M50W7D	-	0.1675
10	829.0 ~ 844.0	9M17G7D	0.0093	0.1914	9M03W7D	-	0.1637
15	831.5 ~ 841.5	13M5G7D	-	0.2023	13M5W7D	-	0.1671
CH26765	821.5	13M4G7D	-	0.1854	13M4W7D	-	0.1600

LTE Band 26		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
1.4	824.7 ~ 848.3	1M10W7D	-	0.1268
3	825.5 ~ 847.5	2M73W7D	-	0.1279
5	826.5 ~ 846.5	4M51W7D	-	0.1300
10	829.0 ~ 844.0	9M01W7D	-	0.1318
15	831.5 ~ 841.5	13M5W7D	-	0.1297
CH26765	821.5	13M4W7D	-	0.1256

LTE Band 7		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
5	2502.5 ~ 2567.5	4M51G7D	-	0.1977	4M50W7D	-	0.1675
10	2505.0 ~ 2565.0	9M05G7D	0.0058	0.2004	9M05W7D	-	0.1718
15	2507.5 ~ 2562.5	13M5G7D	-	0.2051	13M4W7D	-	0.1694
20	2510.0 ~ 2560.0	18M4G7D	-	0.2009	18M4W7D	-	0.1687

LTE Band 7		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
5	2502.5 ~ 2567.5	4M51W7D	-	0.1306
10	2505.0 ~ 2565.0	9M03W7D	-	0.1321
15	2507.5 ~ 2562.5	13M5W7D	-	0.1330
20	2510.0 ~ 2560.0	18M5W7D	-	0.1340

LTE Band 12		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
1.4	699.7 ~ 715.3	1M10G7D	-	0.1905	1M09W7D	-	0.1629
3	700.5 ~ 714.5	2M72G7D	-	0.1897	2M73W7D	-	0.1618
5	701.5 ~ 713.5	4M49G7D	-	0.1919	4M50W7D	-	0.1611
10	704.0 ~ 711.0	9M01G7D	0.0106	0.1914	9M03W7D	-	0.1629

LTE Band 12		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
1.4	699.7 ~ 715.3	1M09W7D	-	0.1256
3	700.5 ~ 714.5	2M73W7D	-	0.1274
5	701.5 ~ 713.5	4M55W7D	-	0.1253
10	704.0 ~ 711.0	9M07W7D	-	0.1268

LTE Band 13		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
5	779.5 ~ 784.5	4M50G7D	-	0.1888	4M51W7D	-	0.1581
10	782.0	9M03G7D	0.0066	0.1875	9M03W7D	-	0.1574

LTE Band 13		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
5	779.5 ~ 784.5	4M51W7D	-	0.1253
10	782.0	9M01W7D	-	0.1236

LTE Band 41		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
5	2498.5 ~ 2687.5	4M49G7D	-	0.2138	4M49W7D	-	0.1718
10	2501.0 ~ 2685.0	9M05G7D	0.0017	0.2153	9M05W7D	-	0.1746
15	2503.5 ~ 2682.5	13M5G7D	-	0.2113	13M5W7D	-	0.1730
20	2506.0 ~ 2680.0	18M3G7D	-	0.2158	18M5W7D	-	0.1698

LTE Band 41		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
5	2498.5 ~ 2687.5	4M50W7D	-	0.1253
10	2501.0 ~ 2685.0	9M05W7D	-	0.1271
15	2503.5 ~ 2682.5	13M5W7D	-	0.1268
20	2506.0 ~ 2680.0	18M5W7D	-	0.1245

LTE Band 71		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
5	665.5 ~ 695.5	4M50G7D	-	0.1897	4M50W7D	-	0.1570
10	668.0 ~ 693.0	9M15G7D	0.0079	0.1923	8M99W7D	-	0.1592
15	670.5 ~ 690.5	13M5G7D	-	0.2014	13M5W7D	-	0.1803
20	673.0 ~ 688.0	18M3G7D	-	0.2360	18M4W7D	-	0.1972

LTE Band 71		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
5	665.5 ~ 695.5	4M51W7D	-	0.1233
10	668.0 ~ 693.0	9M01W7D	-	0.1259
15	670.5 ~ 690.5	13M4W7D	-	0.1393
20	673.0 ~ 688.0	18M4W7D	-	0.1549

LTE Band 7 CA	QPSK			16QAM		
BW (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
10MHz+20MHz	28M1G7D	-	0.1910	27M9W7D	-	0.1641
15MHz+15MHz	28M5G7D	-	0.1972	28M7W7D	-	0.1690
15MHz+20MHz	32M8G7D	-	0.1941	32M7W7D	-	0.1644
15MHz+10MHz	23M4G7D	-	0.2109	23M5W7D	-	0.1807
20MHz+10MHz	28M1G7D	-	0.1945	28M1W7D	-	0.1766
20MHz+15MHz	33M0G7D	-	0.2070	32M9W7D	-	0.1758
20MHz+20MHz	37M6G7D	-	0.2070	37M7W7D	-	0.1758

LTE Band 7 CA	64QAM		
BW (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
10MHz+20MHz	27M9W7D	-	0.1014
15MHz+15MHz	28M6W7D	-	0.1028
15MHz+20MHz	32M9W7D	-	0.1052
15MHz+10MHz	23M5W7D	-	0.1222
20MHz+10MHz	28M1W7D	-	0.1038
20MHz+15MHz	32M9W7D	-	0.1069
20MHz+20MHz	37M6W7D	-	0.1069

LTE Band 41 CA	QPSK			16QAM		
BW (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
5MHz+20MHz	23M4G7D	-	0.2128	23M5W7D	-	0.1730
10MHz+20MHz	28M1G7D	-	0.2123	28M1W7D	-	0.1718
10MHz+15MHz	23M5G7D	-	0.2099	23M5W7D	-	0.1982
15MHz+15MHz	28M8G7D	-	0.2128	28M8W7D	-	0.1770
15MHz+20MHz	33M0G7D	-	0.2113	32M8W7D	-	0.2104
15MHz+10MHz	23M5G7D	-	0.2128	23M4W7D	-	0.1730
20MHz+5MHz	23M4G7D	-	0.2128	23M5W7D	-	0.1730
20MHz+10MHz	28M1G7D	-	0.2123	28M2W7D	-	0.1758
20MHz+15MHz	32M9G7D	-	0.2094	32M8W7D	-	0.2004
20MHz+20MHz	37M6G7D	-	0.2094	37M8W7D	-	0.2004

LTE Band 41 CA	64QAM		
BW (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum Conducted power (W)
5MHz+20MHz	23M3W7D	-	0.1722
10MHz+20MHz	28M1W7D	-	0.1710
10MHz+15MHz	23M6W7D	-	0.1054
15MHz+15MHz	28M5W7D	-	0.1734
15MHz+20MHz	32M8W7D	-	0.1637
15MHz+10MHz	23M4W7D	-	0.1698
20MHz+5MHz	23M3W7D	-	0.1722
20MHz+10MHz	28M2W7D	-	0.1722
20MHz+15MHz	32M7W7D	-	0.1062
20MHz+20MHz	37M6W7D	-	0.1062

Note:

1. LTE Band 26 overlaps the entire frequency range of LTE Band 5. Therefore, the test results provided in this report covers Band 26 as well as Band 5.
2. LTE Band 66 overlaps the entire frequency range of LTE Band 4. Therefore, the test results provided in this report covers Band 66 as well as Band 4.
3. LTE Band 25 overlaps the entire frequency range of LTE Band 2. Therefore, the test results provided in this report covers Band 25 as well as Band 2.

1.7 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH06-KS TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH06-KS	AUDIX	E3	6.2009-8-24al

1.9 Applicable Standards

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

- 47 CFR Part 2, 22(H), 24(E), 27(L), 27(H), 27(F), 27(M), 27(N)
- ANSI C63.26-2015
- FCC KDB 971168 D01 Power Meas License Digital Systems v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
	13	-	-	v		-	-	v	v	v	v	v	v	v	v	v
		-	-		v	-	-	v	v	v	v	v	v		v	
	25	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	26	v	v	v	v	v	-	v	v	v	v	v	v	v	v	v
	41	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	66	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	71	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	7	-	-				v	v	v	v	v		v	v	v	v
	12				v	-	-	v	v	v	v		v	v	v	v
	13	-	-		v	-	-	v	v	v	v		v	v	v	v
	25						v	v	v	v	v		v	v	v	v
	26				v		-	v	v	v	v		v	v	v	v
	41	-	-				v	v	v	v	v		v	v	v	v
	66						v	v	v	v	v		v	v	v	v
	71	-	-				v	v	v	v	v		v	v	v	v

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
26dB and 99% Bandwidth	7	-	-	v	v	v	v	v	v	v			v	v	v	v
	12	v	v	v	v	-	-	v	v	v			v	v	v	v
	13	-	-	v		-	-	v	v	v			v	v	v	v
		-	-		v	-	-	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
	66	v	v	v	v	v	v	v	v	v			v	v	v	v
	71	-	-	v	v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	7	-	-	v	v	v	v	v	v	v	v		v	v		v
	12	v	v	v	v	-	-	v	v	v	v		v	v		v
	13	-	-	v		-	-	v	v	v	v		v	v		v
		-	-		v	-	-	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
	66	v	v	v	v	v	v	v	v	v	v		v	v		v
	71	-	-	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	12	v	v	v	v	-	-	v	v	v	v			v	v	v
	13	-	-	v		-	-	v	v	v	v			v	v	v
		-	-		v	-	-	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
	66	v	v	v	v	v	v	v	v	v	v			v	v	v
	71	-	-	v	v	v	v	v	v	v	v			v	v	v
Frequency Stability	7	-	-		v			v					v		v	
	12				v	-	-	v					v		v	
	13	-	-		v	-	-	v					v		v	
	25				v			v					v		v	
	26				v		-	v					v		v	

	41	-	-		v			v					v		v	
	66				v			v					v		v	
	71	-	-		v			v					v		v	

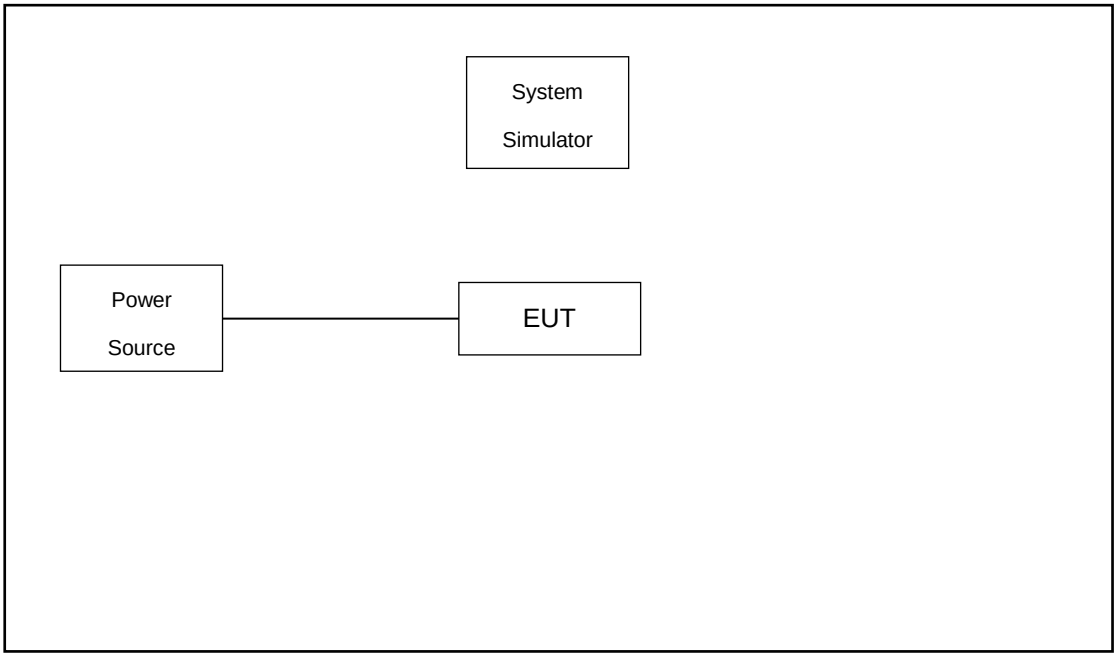
Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
E.R.P / E.I.R.P	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	12	v	v	v	v	-	-	v	v	v	v			v	v	v
	13	-	-	v		-	-	v	v	v	v			v	v	v
		-	-		v	-	-	v	v	v	v				v	
	17	-	-	v	v	-	-	v	v	v	v			v	v	v
	25	v	v	v	v	v	v	v	v	v	v			v	v	v
	26	v	v	v	v	v	-	v	v	v	v			v	v	v
	38	-	-	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
	71	-	-	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	7	Worst Case												v	v	v
	12	Worst Case												v	v	v
	13	Worst Case												v	v	v
	25	Worst Case												v	v	v
	26	Worst Case												v	v	v
	41	Worst Case												v	v	v
	66	Worst Case												v	v	v
	71	Worst Case												v	v	v

Note

1. The mark "**v** " means that this configuration is chosen for testing
2. The mark "-" means that this bandwidth is not supported.
3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.
4. LTE Band 26 overlaps the entire frequency range of LTE Band 5. Therefore, the test results provided in this report covers Band 26 as well as Band 5.
5. LTE Band 66 overlaps the entire frequency range of LTE Band 4. Therefore, the test results provided in this report covers Band 66 as well as Band 4.
6. LTE Band 25 overlaps the entire frequency range of LTE Band 2. Therefore, the test results provided in this report covers Band 25 as well as Band 2.

Test Items	Band	Bandwidth (MHz)										Modulation			RB #			Test Channel		
		20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	15+10	10+15	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v	v	v	v	v	v
	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v			v	v	v	v
	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v		v	v		v
	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v			v	v	v
	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v
E.I.R.P.	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v			v	v	v
	41C_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	7C_CA	Worst Case																v	v	v
	41C_CA	Worst Case																v	v	v
Note	1. The mark "**v** " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.																			

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	GWINSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	WWAN Antenna	N/A	N/A	N/A	N/A	N/A
4.	Adapter	N/A	N/A	N/A	Unshielded,1.2m	N/A
5.	Test jig	N/A	N/A	N/A	N/A	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 EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss

Offset = RF cable loss

Following shows an offset computation example with cable loss 6.0 dB.

Example :

Offset(dB) = RF cable loss(dB)

= 6.0 (dB)

2.5 Frequency List of Low/Middle/High Channels

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

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

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

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

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

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

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

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

LTE Band 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

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

LTE Band 7C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	20850	21001	21152
		Frequency	2510.0	2525.1	2540.2
	SCC	Channel	21048	21199	21350
		Frequency	2529.8	2544.9	2560.0
20 + 15	PCC	Channel	20850	21026	21201
		Frequency	2510.0	2527.6	2545.1
	SCC	Channel	21021	21197	21372
		Frequency	2527.1	2544.7	2562.2
15 + 20	PCC	Channel	20828	21003	21179
		Frequency	2507.8	2525.3	2542.9
	SCC	Channel	20999	21174	21350
		Frequency	2524.9	2542.4	2560.0
20 + 10	PCC	Channel	20850	21051	21251
		Frequency	2510.0	2530.1	2550.1
	SCC	Channel	20994	21195	21395
		Frequency	2524.4	2544.5	2564.5
10 + 20	PCC	Channel	20805	21006	21206
		Frequency	2505.5	2525.6	2545.6
	SCC	Channel	20949	21150	21350
		Frequency	2519.9	2540.0	2560.0
15 + 15	PCC	Channel	20825	21025	21225
		Frequency	2507.5	2527.5	2547.5
	SCC	Channel	20975	21175	21375
		Frequency	2522.5	2542.5	2562.5
15 + 10	PCC	Channel	20825	21051	21277
		Frequency	2507.5	2530.1	2552.7
	SCC	Channel	20945	21171	21397
		Frequency	2519.5	2542.1	2564.7

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

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

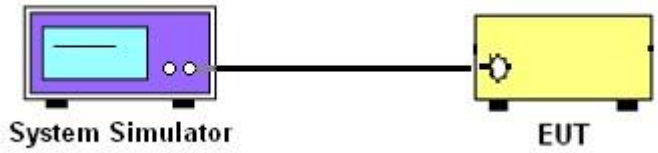
3 Conducted Test Items

3.1 Measuring Instruments

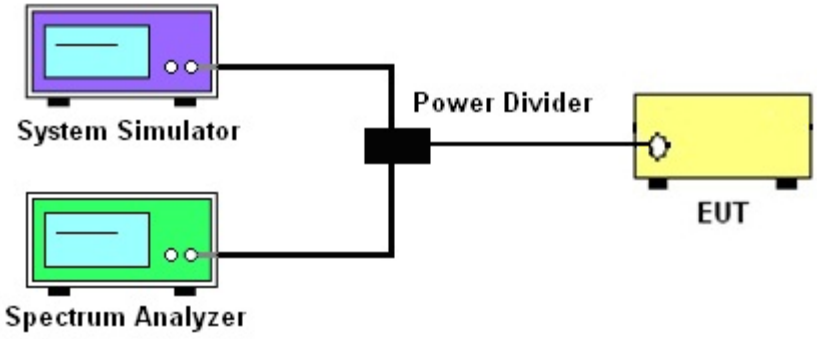
See list of measuring instruments of this test report.

3.2 Test Setup

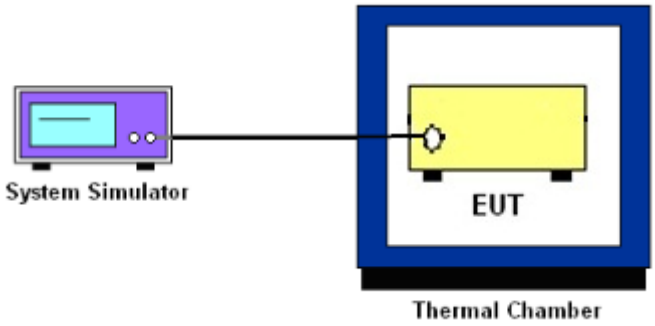
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4Conducted Output Power and ERP/EIRP

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

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

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5 and Band 26.

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

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 25 and Band 7 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 testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.5.2 Test Procedures

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

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

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

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

3.6.2 Test Procedures

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

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a)

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

24.238 (a)

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

27.53 (c)

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

27.53 (g)

For operations in the 600MHz band and 698 -746 MHz band, the FCC limit is 43 + 10log10(P[Watts]) dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53 (h)

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

27.53(m)(4)

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

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW >= 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 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 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
10. For LTE Band 7, 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 7,41:

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 10^{th} harmonic.

3.8.2 Test Procedures

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

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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

3.9.2 Test Procedures for Temperature Variation

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

3.9.3 Test Procedures for Voltage Variation

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

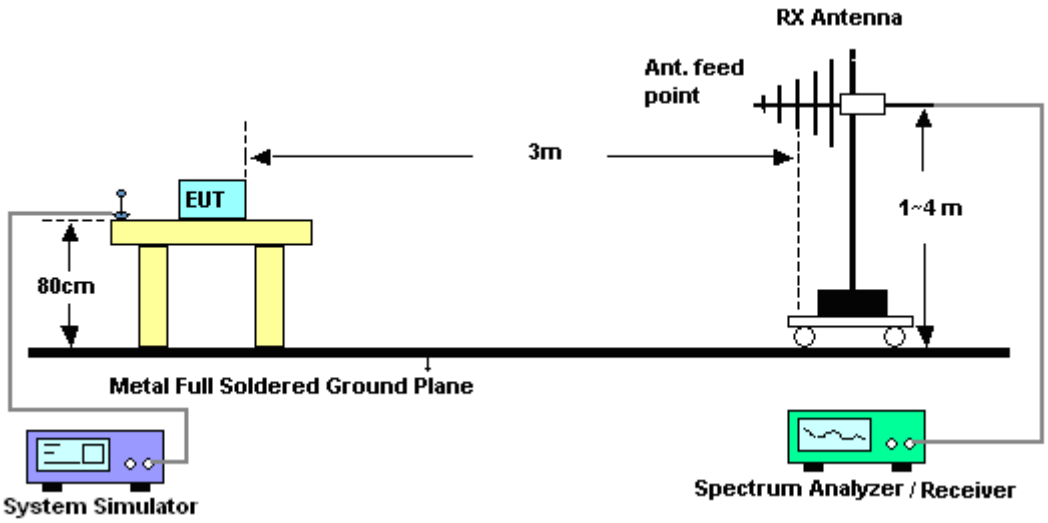
4 Radiated Test Items

4.1 Measuring Instruments

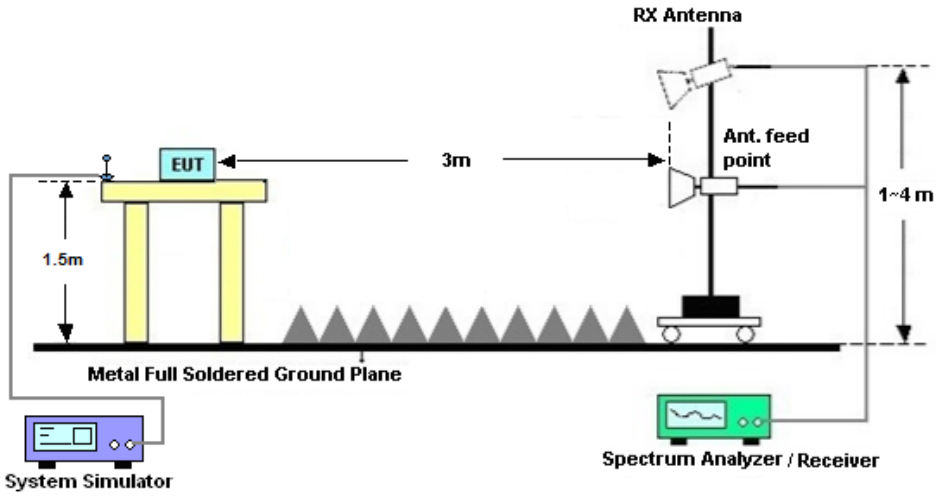
See list of measuring instruments of this test report.

4.2Test Setup

For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI C63.26. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For Band 7, 41

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

For LTE Band 13

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

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

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
11. ERP (dBm) = EIRP - 2.15
12. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
    The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
13. For Band 7, 41:
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Nov. 02, 2019	Jan. 05, 2020~ Feb. 24, 2020	Nov. 01, 2020	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 04, 2019	Jan. 05, 2020~ Feb. 24, 2020	Jul. 03, 2020	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz-44GHz	Apr. 16, 2019	Jan. 10, 2020	Apr. 15, 2020	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz-1GHz	May 30, 2019	Jan. 10, 2020	May 29, 2020	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Jan. 27, 2019	Jan. 10, 2020	Jan. 26, 2020	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 08, 2020	Jan. 10, 2020	Jan. 07, 2021	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Aug. 06, 2019	Jan. 10, 2020	Aug. 05, 2020	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Apr. 17. 2019	Jan. 10, 2020	Apr. 16, 2020	Radiation (03CH06-KS)
Amplifier	MITEQ	TTA1840-35 -HG	2014749	18~40GHz	Jan. 14, 2019	Jan. 10, 2020	Jan. 13, 2020	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5GHz	Apr. 15, 2019	Jan. 10, 2020	Apr. 14. 2020	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jan. 10, 2020	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jan. 10, 2020	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jan. 10, 2020	NCR	Radiation (03CH06-KS)

NCR: No Calibration Required.

6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.5dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.1dB**

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	22.90	22.84	23.09
20	1	49		22.72	22.83	22.98
20	1	99		22.68	22.72	23.02
20	50	0		21.87	21.91	22.11
20	50	24		21.80	21.85	22.08
20	50	50		21.71	21.79	22.03
20	100	0		21.81	21.87	22.10
20	1	0	16-QAM	22.28	22.12	22.35
20	1	49		22.01	22.26	22.36
20	1	99		21.86	22.17	22.24
20	50	0		21.00	21.04	21.26
20	50	24		20.92	21.00	21.17
20	50	50		20.85	20.91	21.17
20	100	0		20.91	21.01	21.22
20	1	0	64-QAM	21.15	21.09	21.10
20	1	49		20.97	21.13	21.10
20	1	99		20.87	21.06	21.29
20	50	0		20.02	20.04	20.24
20	50	24		19.93	19.97	20.22
20	50	50		19.86	19.95	20.18
20	100	0		19.91	19.99	20.19

15	1	0		22.94	22.93	23.07
15	1	37		22.79	22.85	22.91
15	1	74		22.72	22.84	22.91
15	36	0	QPSK	21.88	21.89	22.00
15	36	20		21.83	21.84	22.00
15	36	39		21.72	21.79	21.95
15	75	0		21.81	21.89	22.04
15	1	0		22.32	22.35	22.44
15	1	37		22.07	22.26	22.33
15	1	74		22.01	22.26	22.36
15	36	0	16-QAM	21.01	21.04	21.12
15	36	20		20.96	21.01	21.10
15	36	39		20.85	20.97	21.11
15	75	0		20.94	21.01	21.11
15	1	0		21.19	21.18	21.32
15	1	37		20.98	21.12	21.19
15	1	74		20.89	21.05	21.21
15	36	0	64-QAM	20.00	20.08	20.18
15	36	20		19.94	20.05	20.18
15	36	39		19.91	19.98	20.13
15	75	0		19.93	19.99	20.12

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.80	22.82	22.97
10	1	25		22.74	22.79	22.89
10	1	49		22.72	22.73	22.94
10	25	0		21.82	21.86	21.92
10	25	12		21.79	21.88	21.97
10	25	25		21.75	21.79	21.94
10	50	0		21.79	21.82	21.92
10	1	0	16-QAM	22.20	22.16	22.39
10	1	25		22.14	22.08	22.30
10	1	49		21.94	22.16	22.25
10	25	0		20.96	20.97	21.15
10	25	12		20.93	20.97	21.12
10	25	25		20.87	20.92	21.09
10	50	0		20.95	21.00	21.06
10	1	0	64-QAM	21.09	21.11	21.28
10	1	25		21.07	21.11	21.14
10	1	49		20.99	21.09	21.25
10	25	0		19.92	20.03	20.09
10	25	12		19.93	19.98	20.11
10	25	25		19.87	19.94	20.11
10	50	0		19.92	19.99	20.10
5	1	0	QPSK	22.79	22.79	22.93
5	1	12		22.77	22.83	22.88
5	1	24		22.72	22.76	22.90
5	12	0		21.84	21.82	21.90
5	12	7		21.82	21.86	21.96
5	12	13		21.78	21.84	21.95
5	25	0		21.76	21.80	21.94
5	1	0	16-QAM	22.21	22.09	22.37
5	1	12		22.15	22.13	22.30
5	1	24		21.99	22.14	22.37
5	12	0		20.99	21.02	21.15
5	12	7		20.97	20.96	21.17
5	12	13		20.94	21.01	21.12
5	25	0		20.86	20.91	21.07
5	1	0	64-QAM	21.12	21.12	21.30
5	1	12		21.04	21.15	21.32
5	1	24		20.98	21.11	21.23
5	12	0		19.95	20.03	20.19
5	12	7		20.01	20.07	20.16
5	12	13		19.95	20.01	20.09
5	25	0		19.92	19.91	20.14

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.80	22.76	22.86
3	1	8		22.75	22.77	22.89
3	1	14		22.75	22.74	22.85
3	8	0		21.80	21.84	21.95
3	8	4		21.86	21.83	21.97
3	8	7		21.77	21.83	21.92
3	15	0		21.79	21.79	21.90
3	1	0	16-QAM	22.17	22.16	22.34
3	1	8		22.09	22.25	22.28
3	1	14		22.00	22.21	22.28
3	8	0		20.98	21.06	21.14
3	8	4		21.03	21.05	21.17
3	8	7		20.96	21.04	21.14
3	15	0		20.90	20.93	21.07
3	1	0	64-QAM	21.07	21.07	21.31
3	1	8		20.98	21.09	21.24
3	1	14		21.04	21.05	21.28
3	8	0		19.95	19.99	20.11
3	8	4		20.03	19.98	20.17
3	8	7		19.97	20.02	20.09
3	15	0		19.90	19.90	20.05
1.4	1	0	QPSK	22.71	22.72	22.81
1.4	1	3		22.75	22.75	22.89
1.4	1	5		22.63	22.71	22.84
1.4	3	0		22.70	22.72	22.84
1.4	3	1		22.73	22.74	22.86
1.4	3	3		22.71	22.72	22.87
1.4	6	0		21.71	21.72	21.83
1.4	1	0	16-QAM	21.98	22.09	22.23
1.4	1	3		22.18	22.18	22.30
1.4	1	5		22.03	22.07	22.26
1.4	3	0		21.86	21.90	22.02
1.4	3	1		21.85	21.86	22.04
1.4	3	3		21.76	21.83	22.03
1.4	6	0		20.92	20.93	20.99
1.4	1	0	64-QAM	20.94	21.06	21.17
1.4	1	3		21.02	21.09	21.24
1.4	1	5		20.97	21.03	21.13
1.4	3	0		20.97	20.97	21.12
1.4	3	1		21.01	21.01	21.24
1.4	3	3		20.97	20.94	21.08
1.4	6	0		19.82	19.81	19.99

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.46	22.80	22.62
20	1	49		22.38	22.65	23.10
20	1	99		22.36	22.57	22.39
20	50	0		21.62	21.78	21.89
20	50	24		21.54	21.70	21.80
20	50	50		21.48	21.65	21.77
20	100	0		21.55	21.78	21.82
20	1	0	16-QAM	21.86	21.94	22.17
20	1	49		21.77	22.11	22.15
20	1	99		21.67	22.03	21.85
20	50	0		20.75	20.92	21.00
20	50	24		20.68	20.90	20.96
20	50	50		20.60	20.82	20.92
20	100	0		20.65	20.90	20.93
20	1	0	64-QAM	20.85	21.02	21.10
20	1	49		20.72	20.95	21.01
20	1	99		20.61	20.88	20.87
20	50	0		19.70	19.92	20.06
20	50	24		19.65	19.89	19.94
20	50	50		19.58	19.83	19.94
20	100	0		19.67	19.86	19.98
15	1	0	QPSK	22.46	22.78	22.82
15	1	37		22.40	22.66	22.74
15	1	74		22.35	22.66	22.59
15	36	0		21.49	21.73	21.88
15	36	20		21.44	21.74	21.82
15	36	39		21.40	21.67	21.76
15	75	0		21.44	21.73	21.86
15	1	0	16-QAM	21.81	22.06	22.01
15	1	37		21.74	22.02	22.08
15	1	74		21.58	21.99	22.04
15	36	0		20.60	20.87	20.89
15	36	20		20.57	20.88	20.97
15	36	39		20.49	20.77	20.93
15	75	0		20.57	20.84	20.96
15	1	0	64-QAM	20.65	21.12	20.98
15	1	37		20.64	20.99	21.08
15	1	74		20.64	21.10	21.01
15	36	0		19.61	19.92	19.93
15	36	20		19.56	19.88	19.99
15	36	39		19.49	19.81	19.99
15	75	0		19.50	19.85	19.97

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.42	22.80	22.90
10	1	25		22.58	22.66	22.78
10	1	49		22.42	22.62	22.59
10	25	0		21.38	21.74	21.80
10	25	12		21.50	21.77	21.81
10	25	25		21.45	21.70	21.81
10	50	0		21.49	21.73	21.80
10	1	0	16-QAM	21.70	22.10	22.08
10	1	25		21.69	22.10	22.01
10	1	49		21.64	22.09	21.90
10	25	0		20.52	20.90	20.83
10	25	12		20.59	20.91	20.99
10	25	25		20.56	20.86	20.97
10	50	0		20.59	20.88	20.93
10	1	0	64-QAM	20.65	21.02	21.02
10	1	25		20.64	21.02	21.09
10	1	49		20.69	21.00	21.03
10	25	0		19.53	19.90	20.01
10	25	12		19.58	19.91	19.94
10	25	25		19.56	19.88	19.98
10	50	0		19.58	19.88	20.00
5	1	0	QPSK	22.40	22.71	22.85
5	1	12		22.36	22.69	22.77
5	1	24		22.35	22.65	22.53
5	12	0		21.36	21.75	21.83
5	12	7		21.38	21.71	21.79
5	12	13		21.35	21.76	21.76
5	25	0		21.37	21.70	21.79
5	1	0	16-QAM	21.77	22.05	22.03
5	1	12		21.74	22.03	22.17
5	1	24		21.75	21.99	21.89
5	12	0		20.50	20.90	20.98
5	12	7		20.51	20.88	21.00
5	12	13		20.58	20.87	20.98
5	25	0		20.49	20.85	20.96
5	1	0	64-QAM	20.79	21.01	21.04
5	1	12		20.62	21.06	21.12
5	1	24		20.65	21.01	21.02
5	12	0		19.57	19.96	19.99
5	12	7		19.55	19.95	19.96
5	12	13		19.55	19.91	20.00
5	25	0		19.51	19.84	19.95

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.34	22.69	22.77
3	1	8		22.36	22.65	22.77
3	1	14		22.31	22.62	22.54
3	8	0		21.40	21.71	21.77
3	8	4		21.37	21.71	21.81
3	8	7		21.33	21.71	21.79
3	15	0		21.32	21.66	21.77
3	1	0	16-QAM	21.64	22.07	22.10
3	1	8		21.62	21.97	22.06
3	1	14		21.64	22.05	21.86
3	8	0		20.52	20.87	20.96
3	8	4		20.57	20.94	20.98
3	8	7		20.51	20.90	20.90
3	15	0		20.47	20.79	20.93
3	1	0	64QAM	20.63	21.03	21.04
3	1	8		20.63	20.92	21.10
3	1	14		20.69	20.91	21.03
3	8	0		19.56	19.91	19.97
3	8	4		19.56	19.92	19.83
3	8	7		19.50	19.86	19.97
3	15	0		19.44	19.81	19.91
1.4	1	0	QPSK	22.47	22.52	22.68
1.4	1	3		22.42	22.56	22.72
1.4	1	5		22.38	22.55	22.67
1.4	3	0		22.47	22.55	22.75
1.4	3	1		22.51	22.56	22.80
1.4	3	3		22.45	22.54	22.73
1.4	6	0		21.43	21.57	21.77
1.4	1	0	16-QAM	21.72	21.98	22.08
1.4	1	3		21.91	21.91	22.18
1.4	1	5		21.69	21.90	22.03
1.4	3	0		21.60	21.67	21.87
1.4	3	1		21.63	21.76	21.85
1.4	3	3		21.49	21.74	21.78
1.4	6	0		20.63	20.78	20.96
1.4	1	0	64-QAM	20.68	20.88	21.06
1.4	1	3		20.71	20.92	21.08
1.4	1	5		20.79	20.84	20.99
1.4	3	0		20.75	20.87	21.03
1.4	3	1		20.74	20.84	20.99
1.4	3	3		20.70	20.83	21.02
1.4	6	0		19.58	19.63	19.94

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.05	23.20	23.21
20	1	49		22.88	23.01	22.91
20	1	99		22.93	23.01	22.97
20	50	0		22.05	22.18	22.18
20	50	24		22.08	22.10	22.10
20	50	50		22.03	22.10	21.95
20	100	0		22.10	22.11	22.15
20	1	0	16-QAM	22.30	22.35	22.37
20	1	49		22.27	22.19	22.30
20	1	99		22.14	22.34	22.23
20	50	0		21.08	21.24	21.29
20	50	24		21.15	21.21	21.21
20	50	50		21.15	21.14	21.04
20	100	0		21.18	21.15	21.24
20	1	0	64-QAM	21.29	21.45	21.37
20	1	49		21.14	21.23	21.18
20	1	99		21.19	21.20	21.18
20	50	0		20.12	20.21	20.32
20	50	24		20.19	20.18	20.22
20	50	50		20.18	20.18	20.05
20	100	0		20.14	20.21	20.26
15	1	0	QPSK	23.09	23.16	23.20
15	1	37		22.92	23.01	22.94
15	1	74		22.99	23.00	22.95
15	36	0		22.03	22.14	22.14
15	36	20		22.05	22.10	22.01
15	36	39		22.07	22.01	22.01
15	75	0		22.06	22.09	22.09
15	1	0	16-QAM	22.30	22.39	22.53
15	1	37		22.18	22.19	22.27
15	1	74		22.27	22.25	22.39
15	36	0		21.05	21.15	21.22
15	36	20		21.15	21.15	21.09
15	36	39		21.12	21.11	21.08
15	75	0		21.17	21.15	21.24
15	1	0	64-QAM	21.25	21.41	21.52
15	1	37		21.11	21.12	21.22
15	1	74		21.13	21.26	21.17
15	36	0		20.09	20.24	20.26
15	36	20		20.20	20.17	20.12
15	36	39		20.15	20.15	20.10
15	75	0		20.17	20.17	20.24

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.94	23.03	23.03
10	1	25		22.95	22.99	22.95
10	1	49		22.92	22.99	22.93
10	25	0		21.96	22.12	22.01
10	25	12		21.94	22.09	22.01
10	25	25		21.91	22.03	21.93
10	50	0		21.94	22.09	22.01
10	1	0	16-QAM	22.16	22.26	22.37
10	1	25		22.11	22.28	22.27
10	1	49		22.10	22.31	22.28
10	25	0		21.08	21.17	21.10
10	25	12		21.02	21.14	21.09
10	25	25		21.03	21.13	21.08
10	50	0		21.05	21.12	21.11
10	1	0	64-QAM	21.21	21.27	21.29
10	1	25		21.17	21.21	21.20
10	1	49		21.12	21.23	21.18
10	25	0		20.05	20.16	20.10
10	25	12		20.04	20.18	20.08
10	25	25		20.04	20.10	20.05
10	50	0		20.03	20.18	20.11
5	1	0	QPSK	22.97	23.04	22.95
5	1	12		22.91	23.02	22.92
5	1	24		22.90	23.01	22.96
5	12	0		21.93	22.03	21.98
5	12	7		21.93	22.06	21.96
5	12	13		21.90	22.02	21.96
5	25	0		21.90	22.06	21.95
5	1	0	16-QAM	22.25	22.27	22.40
5	1	12		22.16	22.18	22.36
5	1	24		22.23	22.35	22.36
5	12	0		20.95	21.13	21.09
5	12	7		21.00	21.11	21.08
5	12	13		20.98	21.11	21.05
5	25	0		21.00	21.14	21.05
5	1	0	64-QAM	21.15	21.18	21.30
5	1	12		21.10	21.21	21.35
5	1	24		21.13	21.16	21.30
5	12	0		20.01	20.16	20.12
5	12	7		20.04	20.15	20.18
5	12	13		20.03	20.13	20.10
5	25	0		19.98	20.13	20.06

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.89	23.03	22.96
3	1	8		22.87	22.96	22.98
3	1	14		22.89	23.00	22.97
3	8	0		21.92	22.03	21.94
3	8	4		21.95	22.05	21.93
3	8	7		21.90	22.02	21.90
3	15	0		21.89	22.04	21.97
3	1	0	16-QAM	22.20	22.21	22.24
3	1	8		22.17	22.25	22.19
3	1	14		22.15	22.21	22.24
3	8	0		20.99	21.13	21.06
3	8	4		21.02	21.14	21.15
3	8	7		21.00	21.09	21.12
3	15	0		21.03	21.10	21.04
3	1	0	64-QAM	21.07	21.25	21.16
3	1	8		21.09	21.23	21.22
3	1	14		21.13	21.21	21.19
3	8	0		20.04	20.13	20.08
3	8	4		20.06	20.20	20.13
3	8	7		19.99	20.10	20.09
3	15	0		19.96	20.11	19.99
1.4	1	0	QPSK	22.84	22.94	22.84
1.4	1	3		22.90	22.98	22.94
1.4	1	5		22.81	22.90	22.83
1.4	3	0		22.90	22.97	22.91
1.4	3	1		22.93	23.04	22.91
1.4	3	3		22.85	23.00	22.88
1.4	6	0		21.86	21.96	21.87
1.4	1	0	16-QAM	22.01	22.21	22.27
1.4	1	3		22.12	22.16	22.19
1.4	1	5		21.95	22.19	22.17
1.4	3	0		21.95	22.04	22.05
1.4	3	1		21.93	21.96	22.03
1.4	3	3		21.95	22.01	21.97
1.4	6	0		20.94	21.06	21.08
1.4	1	0	64-QAM	21.00	21.13	21.16
1.4	1	3		21.06	21.16	21.24
1.4	1	5		21.00	21.10	21.16
1.4	3	0		21.03	21.11	21.20
1.4	3	1		21.08	21.16	21.17
1.4	3	3		20.99	21.11	21.07
1.4	6	0		19.93	19.99	19.98

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.85	23.00	23.01
10	1	25		22.86	23.03	22.89
10	1	49		22.91	22.92	22.84
10	25	0		21.94	22.11	22.03
10	25	12		21.91	22.07	22.02
10	25	25		21.95	22.03	21.96
10	50	0		21.92	22.04	21.99
10	1	0	16-QAM	22.08	22.32	22.38
10	1	25		22.09	22.31	22.23
10	1	49		22.16	22.30	22.27
10	25	0		21.02	21.18	21.12
10	25	12		20.97	21.19	21.12
10	25	25		21.02	21.09	21.05
10	50	0		20.97	21.14	21.09
10	1	0	64-QAM	21.04	21.24	21.34
10	1	25		20.98	21.28	21.27
10	1	49		21.15	21.20	21.20
10	25	0		20.01	20.23	20.15
10	25	12		20.04	20.22	20.13
10	25	25		20.07	20.12	20.08
10	50	0		20.03	20.14	20.12
5	1	0	QPSK	22.82	23.01	22.95
5	1	12		22.74	22.93	22.85
5	1	24		22.87	22.90	22.90
5	12	0		21.79	22.03	21.99
5	12	7		21.92	22.07	21.96
5	12	13		21.93	21.99	21.94
5	25	0		21.90	22.01	21.94
5	1	0	16-QAM	22.02	22.40	22.33
5	1	12		22.04	22.32	22.22
5	1	24		22.05	22.19	22.17
5	12	0		20.83	21.16	21.11
5	12	7		20.96	21.18	21.04
5	12	13		20.91	21.15	21.05
5	25	0		20.96	21.15	21.06
5	1	0	64-QAM	21.06	21.35	21.27
5	1	12		20.94	21.22	21.18
5	1	24		20.98	21.27	21.16
5	12	0		19.87	20.20	20.10
5	12	7		20.04	20.23	20.15
5	12	13		19.98	20.21	20.14
5	25	0		19.97	20.18	20.06

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.79	23.00	22.92
3	1	8		22.74	22.97	22.84
3	1	14		22.71	22.91	22.85
3	8	0		21.81	22.03	21.91
3	8	4		21.82	22.04	21.95
3	8	7		21.78	21.96	21.91
3	15	0		21.79	22.00	21.90
3	1	0	16-QAM	22.02	22.35	22.21
3	1	8		21.94	22.26	22.26
3	1	14		21.99	22.30	22.13
3	8	0		20.86	21.23	21.07
3	8	4		20.92	21.21	21.15
3	8	7		20.88	21.15	21.11
3	15	0		20.88	21.14	20.99
3	1	0	64-QAM	20.93	21.27	21.18
3	1	8		20.99	21.21	21.19
3	1	14		20.99	21.23	21.11
3	8	0		19.84	20.13	20.10
3	8	4		19.90	20.20	20.13
3	8	7		19.82	20.14	20.12
3	15	0		19.85	20.11	20.06
1.4	1	0	QPSK	22.68	22.82	22.76
1.4	1	3		22.75	22.95	22.81
1.4	1	5		22.60	22.87	22.75
1.4	3	0		22.69	22.90	22.81
1.4	3	1		22.74	22.91	22.83
1.4	3	3		22.69	22.89	22.79
1.4	6	0		21.71	21.91	21.80
1.4	1	0	16-QAM	21.91	22.21	22.15
1.4	1	3		21.95	22.24	22.23
1.4	1	5		21.82	22.25	22.07
1.4	3	0		21.66	21.94	21.94
1.4	3	1		21.78	22.07	21.91
1.4	3	3		21.65	22.01	21.84
1.4	6	0		20.83	21.13	20.98
1.4	1	0	64-QAM	20.90	21.13	21.08
1.4	1	3		21.01	21.18	21.16
1.4	1	5		20.94	21.13	21.10
1.4	3	0		20.85	21.12	21.04
1.4	3	1		20.88	21.19	21.09
1.4	3	3		20.84	21.10	20.99
1.4	6	0		19.75	19.99	19.95

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.68	22.75	23.06
15	1	37		22.67	22.72	22.83
15	1	74		22.60	22.67	22.71
15	36	0		21.79	21.79	21.86
15	36	20		21.87	21.75	21.88
15	36	39		21.72	21.68	21.81
15	75	0		21.80	21.75	21.77
15	1	0	16-QAM	21.97	22.08	22.23
15	1	37		22.04	22.07	22.19
15	1	74		21.82	22.03	22.06
15	36	0		20.87	20.83	20.93
15	36	20		20.90	20.82	20.99
15	36	39		20.79	20.76	20.92
15	75	0		20.89	20.80	20.92
15	1	0	64-QAM	20.95	21.05	21.13
15	1	37		20.99	20.96	21.08
15	1	74		20.76	20.93	21.05
15	36	0		19.93	19.90	19.95
15	36	20		19.97	19.89	20.06
15	36	39		19.82	19.77	19.95
15	75	0		19.86	19.78	19.87
10	1	0	QPSK	22.62	22.81	22.82
10	1	25		22.68	22.74	22.77
10	1	49		22.56	22.71	22.73
10	25	0		21.75	21.87	21.84
10	25	12		21.72	21.89	21.88
10	25	25		21.67	21.76	21.79
10	50	0		21.75	21.82	21.82
10	1	0	16-QAM	21.92	21.98	22.14
10	1	25		22.06	22.03	22.11
10	1	49		21.85	22.02	22.03
10	25	0		20.91	20.94	20.96
10	25	12		20.88	20.95	20.94
10	25	25		20.78	20.88	20.90
10	50	0		20.81	20.95	20.94
10	1	0	64-QAM	20.86	21.01	21.20
10	1	25		20.98	21.07	21.02
10	1	49		20.87	21.00	20.98
10	25	0		19.88	19.94	19.99
10	25	12		19.81	19.92	19.98
10	25	25		19.76	19.87	19.91
10	50	0		19.83	19.93	19.96

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.68	22.85	22.83
5	1	12		22.52	22.74	22.75
5	1	24		22.65	22.74	22.71
5	12	0		21.64	21.87	21.83
5	12	7		21.76	21.87	21.82
5	12	13		21.72	21.77	21.82
5	25	0		21.71	21.84	21.77
5	1	0	16-QAM	21.98	22.05	22.20
5	1	12		21.94	22.03	22.24
5	1	24		22.01	22.06	22.16
5	12	0		20.80	20.92	20.95
5	12	7		20.89	20.94	20.98
5	12	13		20.78	20.92	20.95
5	25	0		20.85	20.92	20.92
5	1	0	64-QAM	20.83	21.14	21.02
5	1	12		20.87	21.00	21.12
5	1	24		20.92	20.96	21.07
5	12	0		19.78	19.94	19.99
5	12	7		19.91	19.95	20.05
5	12	13		19.84	19.91	19.97
5	25	0		19.82	19.91	19.96
3	1	0	QPSK	22.61	22.72	22.80
3	1	8		22.60	22.67	22.77
3	1	14		22.57	22.66	22.67
3	8	0		21.67	21.71	21.80
3	8	4		21.63	21.71	21.84
3	8	7		21.57	21.69	21.80
3	15	0		21.64	21.69	21.80
3	1	0	16-QAM	21.84	22.03	22.17
3	1	8		21.90	22.03	22.06
3	1	14		21.91	21.92	22.01
3	8	0		20.76	20.84	20.98
3	8	4		20.81	20.82	21.03
3	8	7		20.75	20.83	21.01
3	15	0		20.75	20.77	20.92
3	1	0	64-QAM	20.83	20.92	21.03
3	1	8		20.91	20.95	21.02
3	1	14		20.79	20.87	21.07
3	8	0		19.74	19.83	19.97
3	8	4		19.74	19.83	19.97
3	8	7		19.74	19.80	19.94
3	15	0		19.71	19.76	19.86

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.42	22.65	22.66
1.4	1	3		22.43	22.67	22.69
1.4	1	5		22.38	22.59	22.62
1.4	3	0		22.47	22.67	22.72
1.4	3	1		22.49	22.70	22.69
1.4	3	3		22.46	22.65	22.67
1.4	6	0		21.41	21.58	21.73
1.4	1	0	16-QAM	21.70	21.83	22.04
1.4	1	3		21.90	21.98	22.06
1.4	1	5		21.82	21.84	22.05
1.4	3	0		21.57	21.66	21.86
1.4	3	1		21.66	21.80	21.77
1.4	3	3		21.60	21.73	21.77
1.4	6	0		20.74	20.80	20.91
1.4	1	0	64-QAM	20.71	20.80	21.03
1.4	1	3		20.80	20.92	21.00
1.4	1	5		20.79	20.83	21.01
1.4	3	0		20.72	20.85	20.94
1.4	3	1		20.74	20.89	20.99
1.4	3	3		20.72	20.81	20.97
1.4	6	0		19.62	19.72	19.86

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.03	23.03	22.98
20	1	49		22.82	22.80	22.72
20	1	99		22.69	22.70	22.63
20	50	0		22.04	21.97	21.90
20	50	24		21.98	21.89	21.80
20	50	50		21.81	21.85	21.74
20	100	0		21.85	21.91	21.76
20	1	0	16-QAM	22.26	22.27	22.17
20	1	49		22.16	22.08	22.04
20	1	99		21.91	21.98	21.87
20	50	0		21.07	21.06	20.96
20	50	24		21.01	20.98	20.83
20	50	50		20.88	20.92	20.83
20	100	0		20.92	20.97	20.83
20	1	0	64-QAM	21.21	21.27	21.14
20	1	49		21.03	21.05	20.93
20	1	99		20.93	20.86	20.80
20	50	0		20.03	20.05	19.99
20	50	24		20.02	20.00	19.91
20	50	50		19.88	19.94	19.79
20	100	0		19.91	20.01	19.89
15	1	0	QPSK	23.05	23.12	22.97
15	1	37		22.96	22.91	22.81
15	1	74		22.95	22.85	22.74
15	36	0		22.02	22.05	21.95
15	36	20		22.05	22.01	21.91
15	36	39		21.99	21.92	21.82
15	75	0		22.02	21.96	21.92
15	1	0	16-QAM	22.29	22.29	22.17
15	1	37		22.20	22.27	22.07
15	1	74		22.24	22.17	22.01
15	36	0		21.08	21.09	21.01
15	36	20		21.05	21.09	20.97
15	36	39		21.00	20.97	20.92
15	75	0		21.00	21.04	20.94
15	1	0	64-QAM	21.24	21.24	21.23
15	1	37		21.10	21.18	21.03
15	1	74		21.11	20.98	20.93
15	36	0		20.13	20.17	20.06
15	36	20		20.09	20.12	20.01
15	36	39		20.09	20.00	19.95
15	75	0		20.05	20.08	19.98

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.02	23.00	22.96
10	1	25		22.99	22.93	22.85
10	1	49		22.93	22.89	22.79
10	25	0		22.04	22.02	21.92
10	25	12		22.06	22.02	21.92
10	25	25		22.02	21.94	21.90
10	50	0		22.00	21.97	21.90
10	1	0	16-QAM	22.22	22.35	22.27
10	1	25		22.12	22.17	22.06
10	1	49		22.11	22.10	22.06
10	25	0		21.10	21.11	20.99
10	25	12		21.06	21.09	20.97
10	25	25		21.02	21.00	20.93
10	50	0		21.07	21.01	20.97
10	1	0	64-QAM	21.16	21.21	21.04
10	1	25		21.10	21.19	21.10
10	1	49		21.09	21.10	20.91
10	25	0		20.10	20.09	20.01
10	25	12		20.13	20.10	19.99
10	25	25		20.04	20.00	19.94
10	50	0		20.08	20.10	19.98
5	1	0	QPSK	22.96	22.85	22.86
5	1	12		22.95	22.81	22.89
5	1	24		22.93	22.89	22.91
5	12	0		22.00	21.94	21.95
5	12	7		22.03	22.00	21.95
5	12	13		21.95	21.96	21.90
5	25	0		21.99	21.94	21.87
5	1	0	16-QAM	22.22	22.19	22.19
5	1	12		22.20	22.24	22.10
5	1	24		22.12	22.14	21.97
5	12	0		21.01	21.00	20.92
5	12	7		21.03	21.03	20.97
5	12	13		20.98	21.02	20.91
5	25	0		21.04	21.02	20.95
5	1	0	64-QAM	21.12	21.13	21.07
5	1	12		21.10	21.16	21.02
5	1	24		21.03	21.04	20.95
5	12	0		20.04	20.10	20.03
5	12	7		20.13	20.08	20.01
5	12	13		20.04	20.05	19.99
5	25	0		20.04	20.05	19.96

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.69	22.76	22.82
10	1	25		22.71	22.72	22.75
10	1	49		22.57	22.61	22.72
10	25	0		21.79	21.82	21.83
10	25	12		21.77	21.82	21.79
10	25	25		21.66	21.73	21.74
10	50	0		21.75	21.80	21.78
10	1	0	16-QAM	22.00	22.11	22.12
10	1	25		22.01	21.95	21.92
10	1	49		21.97	21.95	21.99
10	25	0		20.85	20.93	20.85
10	25	12		20.83	20.91	20.83
10	25	25		20.77	20.81	20.79
10	50	0		20.78	20.82	20.83
10	1	0	64-QAM	20.93	20.99	21.03
10	1	25		20.99	20.96	20.95
10	1	49		20.78	20.95	20.91
10	25	0		19.87	19.95	19.91
10	25	12		19.86	19.92	19.86
10	25	25		19.78	19.84	19.81
10	50	0		19.82	19.87	19.88
5	1	0	QPSK	22.73	22.83	22.67
5	1	12		22.61	22.73	22.72
5	1	24		22.67	22.74	22.64
5	12	0		21.68	21.82	21.65
5	12	7		21.65	21.80	21.71
5	12	13		21.75	21.72	21.71
5	25	0		21.72	21.81	21.65
5	1	0	16-QAM	21.98	21.96	22.04
5	1	12		21.83	22.07	21.95
5	1	24		21.91	22.05	22.05
5	12	0		20.76	20.93	20.71
5	12	7		20.76	20.86	20.87
5	12	13		20.78	20.84	20.77
5	25	0		20.84	20.84	20.69
5	1	0	64-QAM	20.90	20.98	20.93
5	1	12		20.82	20.93	20.94
5	1	24		20.88	20.90	20.92
5	12	0		19.81	19.91	19.76
5	12	7		19.85	19.94	19.89
5	12	13		19.85	19.89	19.85
5	25	0		19.83	19.87	19.75

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.64	22.78	22.75
3	1	8		22.62	22.76	22.69
3	1	14		22.59	22.72	22.67
3	8	0		21.70	21.82	21.74
3	8	4		21.70	21.78	21.73
3	8	7		21.64	21.76	21.75
3	15	0		21.65	21.77	21.74
3	1	0	16-QAM	21.89	22.09	22.04
3	1	8		21.91	22.00	21.99
3	1	14		21.84	22.05	21.92
3	8	0		20.82	20.89	20.89
3	8	4		20.81	20.95	20.91
3	8	7		20.77	20.89	20.83
3	15	0		20.75	20.86	20.84
3	1	0	64-QAM	20.86	20.97	21.03
3	1	8		20.87	21.05	20.94
3	1	14		20.86	20.91	20.99
3	8	0		19.76	19.93	19.85
3	8	4		19.83	19.95	19.85
3	8	7		19.73	19.91	19.85
3	15	0		19.71	19.91	19.81
1.4	1	0	QPSK	22.48	22.74	22.64
1.4	1	3		22.55	22.80	22.68
1.4	1	5		22.40	22.69	22.55
1.4	3	0		22.52	22.74	22.69
1.4	3	1		22.55	22.74	22.71
1.4	3	3		22.49	22.71	22.67
1.4	6	0		21.49	21.72	21.67
1.4	1	0	16-QAM	21.75	21.87	21.85
1.4	1	3		21.77	22.12	21.95
1.4	1	5		21.77	21.90	21.96
1.4	3	0		21.57	21.72	21.74
1.4	3	1		21.63	21.79	21.75
1.4	3	3		21.55	21.76	21.72
1.4	6	0		20.69	20.87	20.82
1.4	1	0	64-QAM	20.78	20.92	20.93
1.4	1	3		20.73	20.95	20.91
1.4	1	5		20.67	20.91	20.88
1.4	3	0		20.76	20.93	20.85
1.4	3	1		20.80	20.99	20.92
1.4	3	3		20.79	20.88	20.89
1.4	6	0		19.70	19.85	19.72

LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK		22.68	
10	1	25			22.73	
10	1	49			22.61	
10	25	0			21.83	
10	25	12			21.76	
10	25	25			21.68	
10	50	0			21.76	
10	1	0	16-QAM		21.95	
10	1	25			21.97	
10	1	49			21.74	
10	25	0			20.92	
10	25	12			20.84	
10	25	25			20.74	
10	50	0			20.83	
10	1	0	64-QAM		20.92	
10	1	25			20.90	
10	1	49			20.75	
10	25	0			19.93	
10	25	12			19.90	
10	25	25			19.80	
10	50	0			19.82	
5	1	0	QPSK	22.74	22.76	22.71
5	1	12		22.62	22.73	22.64
5	1	24		22.70	22.69	22.62
5	12	0		21.70	21.76	21.76
5	12	7		21.76	21.81	21.74
5	12	13		21.75	21.73	21.70
5	25	0		21.77	21.76	21.73
5	1	0	16-QAM	21.97	21.99	21.97
5	1	12		21.82	21.96	21.95
5	1	24		21.97	21.92	21.81
5	12	0		20.74	20.89	20.81
5	12	7		20.83	20.84	20.75
5	12	13		20.82	20.79	20.71
5	25	0		20.82	20.81	20.73
5	1	0	64-QAM	20.93	20.96	20.98
5	1	12		20.89	20.98	20.87
5	1	24		20.92	20.85	20.86
5	12	0		19.75	19.89	19.83
5	12	7		19.89	19.92	19.84
5	12	13		19.87	19.84	19.80
5	25	0		19.87	19.82	19.76

LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.34	23.08	23.15
20	1	49		23.10	22.92	22.97
20	1	99		22.98	22.86	22.89
20	50	0		22.30	21.97	22.15
20	50	24		22.27	21.93	22.06
20	50	50		22.13	21.83	21.95
20	100	0		22.16	21.91	22.06
20	1	0	16-QAM	22.30	22.26	22.30
20	1	49		22.17	22.05	22.15
20	1	99		22.09	22.01	22.00
20	50	0		21.34	21.08	21.22
20	50	24		21.31	21.03	21.19
20	50	50		21.17	20.96	21.07
20	100	0		21.21	21.05	21.15
20	1	0	64-QAM	20.95	20.84	20.91
20	1	49		20.84	20.69	20.74
20	1	99		20.70	20.67	20.63
20	50	0		20.34	20.11	20.23
20	50	24		20.31	20.02	20.18
20	50	50		20.17	20.00	20.09
20	100	0		20.19	20.06	20.17
15	1	0	QPSK	23.21	23.09	23.19
15	1	37		23.22	22.97	22.94
15	1	74		23.25	22.91	22.87
15	36	0		22.32	21.96	22.09
15	36	20		22.33	21.92	22.06
15	36	39		22.29	21.85	21.86
15	75	0		22.34	21.89	22.04
15	1	0	16-QAM	22.38	22.20	22.31
15	1	37		22.27	22.10	22.09
15	1	74		22.26	22.03	22.01
15	36	0		21.34	21.04	21.19
15	36	20		21.31	21.02	21.12
15	36	39		21.29	20.95	20.97
15	75	0		21.40	21.05	21.18
15	1	0	64-QAM	21.03	20.79	20.94
15	1	37		20.93	20.68	20.67
15	1	74		20.92	20.64	20.66
15	36	0		20.39	20.08	20.25
15	36	20		20.36	20.08	20.15
15	36	39		20.30	20.01	20.01
15	75	0		20.39	20.04	20.21

LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.33	22.97	23.05
10	1	25		23.28	22.96	22.97
10	1	49		23.27	22.92	22.88
10	25	0		22.40	21.96	22.02
10	25	12		22.40	21.93	21.96
10	25	25		22.33	21.90	21.93
10	50	0		22.35	21.94	21.97
10	1	0	16-QAM	22.42	22.17	22.20
10	1	25		22.35	22.11	22.12
10	1	49		22.30	22.02	22.03
10	25	0		21.41	21.10	21.13
10	25	12		21.42	21.07	21.09
10	25	25		21.37	21.01	21.03
10	50	0		21.42	21.06	21.10
10	1	0	64-QAM	21.04	20.74	20.82
10	1	25		20.97	20.73	20.73
10	1	49		20.96	20.66	20.70
10	25	0		20.46	20.16	20.19
10	25	12		20.43	20.13	20.15
10	25	25		20.42	20.07	20.11
10	50	0		20.41	20.06	20.11
5	1	0	QPSK	23.30	22.92	22.91
5	1	12		23.30	22.90	22.95
5	1	24		23.25	22.85	22.84
5	12	0		22.37	21.89	21.97
5	12	7		22.35	21.93	21.96
5	12	13		22.37	21.88	21.92
5	25	0		22.37	21.89	21.93
5	1	0	16-QAM	22.33	22.07	22.05
5	1	12		22.35	22.05	22.12
5	1	24		22.32	22.06	22.07
5	12	0		21.32	21.00	21.02
5	12	7		21.36	21.00	21.04
5	12	13		21.33	20.92	21.01
5	25	0		21.39	21.05	21.06
5	1	0	64-QAM	20.97	20.70	20.71
5	1	12		20.98	20.64	20.71
5	1	24		20.95	20.60	20.68
5	12	0		20.41	20.06	20.10
5	12	7		20.42	20.12	20.14
5	12	13		20.39	20.07	20.10
5	25	0		20.45	20.11	20.17

LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.81	23.22	22.98
20	1	49		22.62	22.80	22.74
20	1	99		22.69	22.86	22.80
20	50	0		21.71	21.99	21.93
20	50	24		21.69	21.89	21.87
20	50	50		21.73	21.86	21.86
20	100	0		21.79	21.88	21.90
20	1	0	16-QAM	21.99	22.31	22.35
20	1	49		21.94	22.23	22.19
20	1	99		21.87	22.24	22.08
20	50	0		20.84	21.08	21.02
20	50	24		20.75	21.04	21.01
20	50	50		20.82	20.98	20.96
20	100	0		20.85	21.02	21.00
20	1	0	64-QAM	20.99	21.23	21.21
20	1	49		20.88	21.14	21.05
20	1	99		20.89	21.15	21.06
20	50	0		19.86	20.09	20.03
20	50	24		19.78	20.01	19.97
20	50	50		19.89	19.96	19.96
20	100	0		20.00	20.03	19.99
15	1	0	QPSK	22.82	22.99	22.97
15	1	37		22.65	22.78	22.78
15	1	74		22.68	22.78	22.81
15	36	0		21.75	21.89	21.94
15	36	20		21.75	21.88	21.90
15	36	39		21.73	21.89	21.82
15	75	0		21.75	21.90	21.89
15	1	0	16-QAM	22.13	22.16	22.23
15	1	37		22.07	22.19	22.19
15	1	74		21.92	22.18	22.13
15	36	0		20.85	20.99	21.05
15	36	20		20.83	20.98	20.99
15	36	39		20.83	20.97	20.91
15	75	0		20.86	20.99	20.97
15	1	0	64-QAM	21.12	21.14	21.12
15	1	37		20.87	21.10	21.10
15	1	74		20.95	21.08	21.04
15	36	0		19.91	20.03	20.04
15	36	20		19.87	20.06	20.03
15	36	39		19.84	19.99	19.94
15	75	0		19.85	19.99	20.01

LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.74	22.88	22.86
10	1	25		22.65	22.80	22.78
10	1	49		22.62	22.79	22.76
10	25	0		21.72	21.88	21.86
10	25	12		21.71	21.90	21.84
10	25	25		21.67	21.83	21.82
10	50	0		21.74	21.88	21.85
10	1	0	16-QAM	21.91	22.17	22.07
10	1	25		21.99	22.07	22.10
10	1	49		21.98	22.11	22.01
10	25	0		20.83	20.97	20.97
10	25	12		20.83	20.99	20.97
10	25	25		20.83	20.92	20.94
10	50	0		20.84	21.00	20.97
10	1	0	64-QAM	20.91	21.21	21.15
10	1	25		20.93	21.11	21.13
10	1	49		20.92	21.09	20.98
10	25	0		19.84	19.98	19.97
10	25	12		19.88	19.99	19.98
10	25	25		19.79	19.93	19.95
10	50	0		19.84	20.00	19.96
5	1	0	QPSK	22.72	22.85	22.82
5	1	12		22.63	22.80	22.74
5	1	24		22.69	22.78	22.79
5	12	0		21.73	21.87	21.83
5	12	7		21.72	21.85	21.80
5	12	13		21.67	21.78	21.77
5	25	0		21.71	21.82	21.81
5	1	0	16-QAM	21.96	22.19	22.05
5	1	12		22.00	22.08	22.04
5	1	24		21.93	22.21	22.11
5	12	0		20.83	20.97	20.97
5	12	7		20.81	20.95	20.94
5	12	13		20.75	20.93	20.88
5	25	0		20.77	20.93	20.93
5	1	0	64-QAM	20.94	21.11	21.13
5	1	12		20.84	21.10	21.04
5	1	24		20.97	21.00	20.98
5	12	0		19.86	19.98	19.98
5	12	7		19.86	19.98	19.96
5	12	13		19.80	20.00	19.97
5	25	0		19.76	19.95	19.90

LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.67	22.84	22.79
3	1	8		22.66	22.78	22.76
3	1	14		22.64	22.81	22.79
3	8	0		21.67	21.84	21.79
3	8	4		21.72	21.83	21.79
3	8	7		21.64	21.82	21.79
3	15	0		21.67	21.82	21.79
3	1	0	16-QAM	21.96	22.14	22.11
3	1	8		21.93	22.16	22.11
3	1	14		21.97	22.10	22.07
3	8	0		20.84	20.94	20.95
3	8	4		20.87	21.00	20.99
3	8	7		20.76	20.95	20.91
3	15	0		20.78	20.92	20.91
3	1	0	64-QAM	20.90	21.02	21.04
3	1	8		20.91	20.98	21.04
3	1	14		20.84	21.13	21.04
3	8	0		19.78	19.95	19.94
3	8	4		19.84	19.98	19.96
3	8	7		19.78	19.96	19.90
3	15	0		19.81	19.93	19.88
1.4	1	0	QPSK	22.64	22.80	22.74
1.4	1	3		22.72	22.85	22.82
1.4	1	5		22.63	22.74	22.76
1.4	3	0		22.65	22.81	22.82
1.4	3	1		22.72	22.86	22.84
1.4	3	3		22.75	22.81	22.81
1.4	6	0		21.67	21.83	21.81
1.4	1	0	16-QAM	21.95	22.20	22.09
1.4	1	3		22.02	22.10	22.09
1.4	1	5		21.88	21.96	22.00
1.4	3	0		21.78	21.91	21.86
1.4	3	1		21.83	21.93	21.87
1.4	3	3		21.69	21.92	21.88
1.4	6	0		20.86	20.99	20.97
1.4	1	0	64-QAM	20.85	21.13	21.05
1.4	1	3		20.90	21.09	21.11
1.4	1	5		20.85	21.08	20.99
1.4	3	0		20.87	21.08	21.00
1.4	3	1		20.89	21.10	21.02
1.4	3	3		20.88	21.02	21.02
1.4	6	0		19.78	19.89	19.93

LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.56	23.62	23.73
20	1	49		22.62	22.60	22.64
20	1	99		23.24	23.23	23.50
20	50	0		22.09	22.11	22.03
20	50	24		21.80	21.76	21.74
20	50	50		22.01	21.85	21.91
20	100	0		21.95	21.97	21.92
20	1	0	16-QAM	22.72	22.87	22.95
20	1	49		21.82	21.82	21.91
20	1	99		22.63	22.60	22.53
20	50	0		21.10	21.15	21.05
20	50	24		20.88	20.85	20.78
20	50	50		21.02	20.91	20.95
20	100	0		20.98	21.00	20.95
20	1	0	64-QAM	21.79	21.71	21.90
20	1	49		20.80	20.83	20.88
20	1	99		21.57	21.61	21.59
20	50	0		20.13	20.15	20.07
20	50	24		19.90	19.87	19.77
20	50	50		20.05	19.91	19.94
20	100	0		20.03	19.99	19.94
15	1	0	QPSK	22.81	22.82	22.83
15	1	37		22.63	22.67	22.62
15	1	74		23.04	22.75	22.95
15	36	0		21.96	21.97	21.79
15	36	20		21.88	21.78	21.71
15	36	39		21.88	21.76	21.73
15	75	0		21.94	21.89	21.75
15	1	0	16-QAM	22.56	22.33	22.41
15	1	37		21.88	21.86	21.88
15	1	74		22.19	22.33	22.11
15	36	0		21.01	21.01	20.90
15	36	20		20.95	20.82	20.79
15	36	39		20.95	20.85	20.78
15	75	0		21.03	20.92	20.82
15	1	0	64-QAM	21.44	21.42	21.39
15	1	37		20.88	20.89	20.83
15	1	74		21.30	21.34	21.15
15	36	0		20.03	20.03	19.91
15	36	20		19.93	19.86	19.80
15	36	39		19.97	19.86	19.84
15	75	0		20.01	19.92	19.79

LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.84	22.74	22.74
10	1	25		22.69	22.68	22.57
10	1	49		22.67	22.61	22.56
10	25	0		21.84	21.81	21.69
10	25	12		21.78	21.78	21.68
10	25	25		21.78	21.68	21.59
10	50	0		21.88	21.76	21.66
10	1	0	16-QAM	21.97	21.94	22.02
10	1	25		21.91	21.89	21.79
10	1	49		21.90	21.85	21.75
10	25	0		20.87	20.89	20.78
10	25	12		20.84	20.83	20.73
10	25	25		20.83	20.76	20.63
10	50	0		20.93	20.81	20.74
10	1	0	64-QAM	21.00	20.94	20.92
10	1	25		20.86	20.88	20.74
10	1	49		20.90	20.83	20.69
10	25	0		19.86	19.87	19.78
10	25	12		19.84	19.87	19.76
10	25	25		19.89	19.78	19.68
10	50	0		19.89	19.83	19.76
5	1	0	QPSK	22.78	22.70	22.61
5	1	12		22.73	22.66	22.57
5	1	24		22.70	22.71	22.55
5	12	0		21.82	21.70	21.59
5	12	7		21.78	21.69	21.62
5	12	13		21.71	21.74	21.58
5	25	0		21.78	21.78	21.61
5	1	0	16-QAM	21.96	21.88	21.83
5	1	12		21.96	21.79	21.81
5	1	24		21.89	21.94	21.69
5	12	0		20.86	20.76	20.70
5	12	7		20.83	20.72	20.65
5	12	13		20.77	20.81	20.63
5	25	0		20.83	20.83	20.68
5	1	0	64-QAM	20.91	20.89	20.85
5	1	12		20.80	20.83	20.75
5	1	24		20.80	20.88	20.76
5	12	0		19.82	19.77	19.71
5	12	7		19.81	19.75	19.76
5	12	13		19.80	19.81	19.69
5	25	0		19.83	19.84	19.69

CA Power

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	100	0	100	0	200	20.92
			1	0	1	99	2	14.42
			1	99	1	0	2	23.16
		16QAM	100	0	100	0	200	19.89
			1	0	1	99	2	14.8
			1	99	1	0	2	22.45
		64QAM	100	0	100	0	200	19.9
			1	0	1	99	2	14.56
			1	99	1	0	2	20.29
21001	21199	QPSK	100	0	100	0	200	20.87
			1	0	1	99	2	14.27
			1	99	1	0	2	23.04
		16QAM	100	0	100	0	200	19.86
			1	0	1	99	2	14.68
			1	99	1	0	2	22.38
		64QAM	100	0	100	0	200	19.96
			1	0	1	99	2	14.56
			1	99	1	0	2	20.23
21152	21350	QPSK	100	0	100	0	200	20.86
			1	0	1	99	2	14.26
			1	99	1	0	2	23.08
		16QAM	100	0	100	0	200	19.88
			1	0	1	99	2	14.65
			1	99	1	0	2	22.16
		64QAM	100	0	100	0	200	19.92
			1	0	1	99	2	14.52
			1	99	1	0	2	20.15

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	100	0	75	0	175	20.45
		QPSK	1	0	1	74	2	14.37
		QPSK	1	99	1	0	2	23.16
		16QAM	100	0	75	0	175	19.78
		16QAM	1	0	1	74	2	14.90
		16QAM	1	99	1	0	2	22.45
		64QAM	100	0	75	0	175	19.80
		64QAM	1	0	1	74	2	15.29
		64QAM	1	99	1	0	2	20.29
21026	21197	QPSK	100	0	75	0	175	20.98
		QPSK	1	0	1	74	2	15.21
		QPSK	1	99	1	0	2	23.04
		16QAM	100	0	75	0	175	19.78
		16QAM	1	0	1	74	2	14.67
		16QAM	1	99	1	0	2	22.38
		64QAM	100	0	75	0	175	19.76
		64QAM	1	0	1	74	2	14.78
		64QAM	1	99	1	0	2	20.23
21201	21372	QPSK	100	0	75	0	175	20.78
		QPSK	1	0	1	74	2	14.29
		QPSK	1	99	1	0	2	23.08
		16QAM	100	0	75	0	175	19.88
		16QAM	1	0	1	74	2	14.72
		16QAM	1	99	1	0	2	22.16
		64QAM	100	0	75	0	175	19.92
		64QAM	1	0	1	74	2	14.65
		64QAM	1	99	1	0	2	20.15

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	75	0	100	0	175	20.81
		QPSK	1	0	1	99	2	14.16
		QPSK	1	74	1	0	2	22.88
		16QAM	75	0	100	0	175	19.85
		16QAM	1	0	1	99	2	14.55
		16QAM	1	74	1	0	2	22.16
		64QAM	75	0	100	0	175	19.80
		64QAM	1	0	1	99	2	14.51
		64QAM	1	74	1	0	2	20.22
21003	21174	QPSK	75	0	100	0	175	20.74
		QPSK	1	0	1	99	2	14.08
		QPSK	1	74	1	0	2	22.86
		16QAM	75	0	100	0	175	19.81
		16QAM	1	0	1	99	2	14.62
		16QAM	1	74	1	0	2	22.15
		64QAM	75	0	100	0	175	19.79
		64QAM	1	0	1	99	2	14.38
		64QAM	1	74	1	0	2	20.16
21179	21350	QPSK	75	0	100	0	175	20.68
		QPSK	1	0	1	99	2	14.08
		QPSK	1	74	1	0	2	22.88
		16QAM	75	0	100	0	175	19.86
		16QAM	1	0	1	99	2	14.73
		16QAM	1	74	1	0	2	22.05
		64QAM	75	0	100	0	175	19.72
		64QAM	1	0	1	99	2	14.33
		64QAM	1	74	1	0	2	20.02

Combination 20MHz+10MHz (100RB+50RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20850	20994	QPSK	100	0	50	0	150	20.86
		QPSK	1	0	1	49	2	14.29
		QPSK	1	99	1	0	2	22.89
		16QAM	100	0	50	0	150	19.89
		16QAM	1	0	1	49	2	14.82
		16QAM	1	99	1	0	2	22.47
		64QAM	100	0	50	0	150	19.79
		64QAM	1	0	1	49	2	14.66
		64QAM	1	99	1	0	2	20.16
21051	21195	QPSK	100	0	50	0	150	20.77
		QPSK	1	0	1	49	2	14.17
		QPSK	1	99	1	0	2	22.86
		16QAM	100	0	50	0	150	19.83
		16QAM	1	0	1	49	2	14.63
		16QAM	1	99	1	0	2	22.22
		64QAM	100	0	50	0	150	19.83
		64QAM	1	0	1	49	2	14.48
		64QAM	1	99	1	0	2	20.16
21251	21395	QPSK	100	0	50	0	150	20.83
		QPSK	1	0	1	49	2	14.24
		QPSK	1	99	1	0	2	22.76
		16QAM	100	0	50	0	150	19.89
		16QAM	1	0	1	49	2	14.66
		16QAM	1	99	1	0	2	22.10
		64QAM	100	0	50	0	150	19.92
		64QAM	1	0	1	49	2	14.61
		64QAM	1	99	1	0	2	20.04

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	50	0	100	0	150	20.79
		QPSK	1	0	1	99	2	14.15
		QPSK	1	49	1	0	2	22.81
		16QAM	50	0	100	0	150	19.83
		16QAM	1	0	1	99	2	14.63
		16QAM	1	49	1	0	2	22.15
		64QAM	50	0	100	0	150	19.82
		64QAM	1	0	1	99	2	14.63
		64QAM	1	49	1	0	2	20.03
21006	21150	QPSK	50	0	100	0	150	20.70
		QPSK	1	0	1	99	2	14.14
		QPSK	1	49	1	0	2	22.68
		16QAM	50	0	100	0	150	19.82
		16QAM	1	0	1	99	2	14.66
		16QAM	1	49	1	0	2	22.14
		64QAM	50	0	100	0	150	19.76
		64QAM	1	0	1	99	2	14.36
		64QAM	1	49	1	0	2	19.98
21206	21350	QPSK	50	0	100	0	150	20.74
		QPSK	1	0	1	99	2	14.12
		QPSK	1	49	1	0	2	22.74
		16QAM	50	0	100	0	150	19.75
		16QAM	1	0	1	99	2	14.73
		16QAM	1	49	1	0	2	22.15
		64QAM	50	0	100	0	150	19.75
		64QAM	1	0	1	99	2	14.42
		64QAM	1	49	1	0	2	20.06

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	75	0	75	0	150	20.73
		QPSK	1	0	1	74	2	14.16
		QPSK	1	74	1	0	2	22.95
		16QAM	75	0	75	0	150	19.78
		16QAM	1	0	1	74	2	14.58
		16QAM	1	74	1	0	2	22.28
		64QAM	75	0	75	0	150	19.78
		64QAM	1	0	1	74	2	14.57
		64QAM	1	74	1	0	2	20.12
21025	21175	QPSK	75	0	75	0	150	20.72
		QPSK	1	0	1	74	2	14.03
		QPSK	1	74	1	0	2	22.83
		16QAM	75	0	75	0	150	19.79
		16QAM	1	0	1	74	2	14.48
		16QAM	1	74	1	0	2	21.98
		64QAM	75	0	75	0	150	19.74
		64QAM	1	0	1	74	2	14.42
		64QAM	1	74	1	0	2	20.01
21225	21375	QPSK	75	0	75	0	150	20.71
		QPSK	1	0	1	74	2	14.19
		QPSK	1	74	1	0	2	22.78
		16QAM	75	0	75	0	150	19.88
		16QAM	1	0	1	74	2	14.72
		16QAM	1	74	1	0	2	22.16
		64QAM	75	0	75	0	150	19.78
		64QAM	1	0	1	74	2	14.55
		64QAM	1	74	1	0	2	20.02

Combination 15MHz+10MHz (75RB+50RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20825	20945	QPSK	75	0	50	0	125	20.77
		QPSK	1	0	1	49	2	14.15
		QPSK	1	74	1	0	2	22.94
		16QAM	75	0	50	0	125	19.85
		16QAM	1	0	1	49	2	14.62
		16QAM	1	74	1	0	2	22.27
		64QAM	75	0	50	0	125	19.83
		64QAM	1	0	1	49	2	14.42
		64QAM	1	74	1	0	2	20.16
21051	21171	QPSK	75	0	50	0	125	21.05
		QPSK	1	0	1	49	2	14.38
		QPSK	1	74	1	0	2	23.24
		16QAM	75	0	50	0	125	19.29
		16QAM	1	0	1	49	2	14.92
		16QAM	1	74	1	0	2	22.57
		64QAM	75	0	50	0	125	20.87
		64QAM	1	0	1	49	2	14.82
		64QAM	1	74	1	0	2	20.50
21277	21397	QPSK	75	0	50	0	125	21.05
		QPSK	1	0	1	49	2	14.42
		QPSK	1	74	1	0	2	23.06
		16QAM	75	0	50	0	125	20.05
		16QAM	1	0	1	49	2	14.86
		16QAM	1	74	1	0	2	22.38
		64QAM	75	0	50	0	125	20.13
		64QAM	1	0	1	49	2	14.83
		64QAM	1	74	1	0	2	20.32

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	100	0	100	0	200	21.21
			1	0	1	99	2	14.55
			1	99	1	0	2	23.21
		16QAM	100	0	100	0	200	20.28
			1	0	1	99	2	14.82
			1	99	1	0	2	22.22
		64QAM	100	0	100	0	200	20.26
			1	0	1	99	2	14.38
			1	99	1	0	2	19.87
40521	40719	QPSK	100	0	100	0	200	20.99
			1	0	1	99	2	14.47
			1	99	1	0	2	22.82
		16QAM	100	0	100	0	200	20.98
			1	0	1	99	2	14.68
			1	99	1	0	2	21.94
		64QAM	100	0	100	0	200	20.11
			1	0	1	99	2	14.28
			1	99	1	0	2	19.72
41292	41490	QPSK	100	0	100	0	200	21.02
			1	0	1	99	2	14.34
			1	99	1	0	2	22.97
		16QAM	100	0	100	0	200	21.04
			1	0	1	99	2	14.36
			1	99	1	0	2	23.02
		64QAM	100	0	100	0	200	20.12
			1	0	1	99	2	14.15
			1	99	1	0	2	19.81

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	100	0	75	0	175	21.32
		QPSK	1	0	1	74	2	14.34
		QPSK	1	99	1	0	2	23.21
		16QAM	100	0	75	0	175	20.23
		16QAM	1	0	1	74	2	14.67
		16QAM	1	99	1	0	2	22.22
		64QAM	100	0	75	0	175	20.26
		64QAM	1	0	1	74	2	14.45
		64QAM	1	99	1	0	2	19.67
40546	40717	QPSK	100	0	75	0	175	20.89
		QPSK	1	0	1	74	2	14.67
		QPSK	1	99	1	0	2	22.82
		16QAM	100	0	75	0	175	20.89
		16QAM	1	0	1	74	2	14.72
		16QAM	1	99	1	0	2	21.94
		64QAM	100	0	75	0	175	20.11
		64QAM	1	0	1	74	2	14.43
		64QAM	1	99	1	0	2	19.78
41341	41512	QPSK	100	0	75	0	175	21.22
		QPSK	1	0	1	74	2	14.65
		QPSK	1	99	1	0	2	22.97
		16QAM	100	0	75	0	175	21.24
		16QAM	1	0	1	74	2	14.65
		16QAM	1	99	1	0	2	23.02
		64QAM	100	0	75	0	175	20.12
		64QAM	1	0	1	74	2	14.19
		64QAM	1	99	1	0	2	19.21

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		
39728	39899	QPSK	75	0	100	0	175	21.24
		QPSK	1	0	1	99	2	14.66
		QPSK	1	74	1	0	2	23.25
		16QAM	75	0	100	0	175	21.26
		16QAM	1	0	1	99	2	14.69
		16QAM	1	74	1	0	2	23.23
		64QAM	75	0	100	0	175	20.31
		64QAM	1	0	1	99	2	14.45
		64QAM	1	74	1	0	2	21.95
40523	40694	QPSK	75	0	100	0	175	21.07
		QPSK	1	0	1	99	2	14.46
		QPSK	1	74	1	0	2	23.05
		16QAM	75	0	100	0	175	20.18
		16QAM	1	0	1	99	2	14.70
		16QAM	1	74	1	0	2	22.15
		64QAM	75	0	100	0	175	20.15
		64QAM	1	0	1	99	2	14.55
		64QAM	1	74	1	0	2	21.99
41319	41490	QPSK	75	0	100	0	175	21.19
		QPSK	1	0	1	99	2	14.52
		QPSK	1	74	1	0	2	23.24
		16QAM	75	0	100	0	175	20.18
		16QAM	1	0	1	99	2	14.58
		16QAM	1	74	1	0	2	22.33
		64QAM	75	0	100	0	175	20.17
		64QAM	1	0	1	99	2	14.56
		64QAM	1	74	1	0	2	22.14

Combination 20MHz+10MHz (100RB+50RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
39750	39894	QPSK	100	0	50	0	150	21.31
		QPSK	1	0	1	49	2	14.79
		QPSK	1	99	1	0	2	23.27
		16QAM	100	0	50	0	150	20.33
		16QAM	1	0	1	49	2	14.82
		16QAM	1	99	1	0	2	22.45
		64QAM	100	0	50	0	150	20.35
		64QAM	1	0	1	49	2	14.83
		64QAM	1	99	1	0	2	22.36
40571	40715	QPSK	100	0	50	0	150	21.06
		QPSK	1	0	1	49	2	14.53
		QPSK	1	99	1	0	2	22.96
		16QAM	100	0	50	0	150	20.11
		16QAM	1	0	1	49	2	14.60
		16QAM	1	99	1	0	2	22.06
		64QAM	100	0	50	0	150	20.12
		64QAM	1	0	1	49	2	14.61
		64QAM	1	99	1	0	2	22.08
41391	41535	QPSK	100	0	50	0	150	21.06
		QPSK	1	0	1	49	2	14.42
		QPSK	1	99	1	0	2	23.02
		16QAM	100	0	50	0	150	20.09
		16QAM	1	0	1	49	2	14.50
		16QAM	1	99	1	0	2	22.08
		64QAM	100	0	50	0	150	20.11
		64QAM	1	0	1	49	2	14.36
		64QAM	1	99	1	0	2	22.01

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		
39705	39849	QPSK	50	0	100	0	150	21.28
		QPSK	1	0	1	99	2	14.72
		QPSK	1	49	1	0	2	23.27
		16QAM	50	0	100	0	150	20.31
		16QAM	1	0	1	99	2	14.78
		16QAM	1	49	1	0	2	22.35
		64QAM	50	0	100	0	150	20.28
		64QAM	1	0	1	99	2	14.75
		64QAM	1	49	1	0	2	22.33
40526	40670	QPSK	50	0	100	0	150	21.02
		QPSK	1	0	1	99	2	14.51
		QPSK	1	49	1	0	2	22.95
		16QAM	50	0	100	0	150	20.06
		16QAM	1	0	1	99	2	14.57
		16QAM	1	49	1	0	2	21.93
		64QAM	50	0	100	0	150	20.04
		64QAM	1	0	1	99	2	14.56
		64QAM	1	49	1	0	2	21.91
41346	41490	QPSK	50	0	100	0	150	21.13
		QPSK	1	0	1	99	2	14.39
		QPSK	1	49	1	0	2	23.15
		16QAM	50	0	100	0	150	20.15
		16QAM	1	0	1	99	2	14.46
		16QAM	1	49	1	0	2	22.16
		64QAM	50	0	100	0	150	20.14
		64QAM	1	0	1	99	2	14.34
		64QAM	1	49	1	0	2	22.15

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	100	0	25	0	125	21.25
		QPSK	1	0	1	24	2	14.67
		QPSK	1	99	1	0	2	23.28
		16QAM	100	0	25	0	125	20.28
		16QAM	1	0	1	24	2	14.79
		16QAM	1	99	1	0	2	22.38
		64QAM	100	0	25	0	125	20.25
		64QAM	1	0	1	24	2	14.70
		64QAM	1	99	1	0	2	22.36
40595	40712	QPSK	100	0	25	0	125	20.99
		QPSK	1	0	1	24	2	14.52
		QPSK	1	99	1	0	2	22.98
		16QAM	100	0	25	0	125	20.03
		16QAM	1	0	1	24	2	14.52
		16QAM	1	99	1	0	2	21.94
		64QAM	100	0	25	0	125	20.01
		64QAM	1	0	1	24	2	14.57
		64QAM	1	99	1	0	2	21.94
41440	41557	QPSK	100	0	25	0	125	21.10
		QPSK	1	0	1	24	2	14.40
		QPSK	1	99	1	0	2	23.10
		16QAM	100	0	25	0	125	20.12
		16QAM	1	0	1	24	2	14.49
		16QAM	1	99	1	0	2	22.11
		64QAM	100	0	25	0	125	20.11
		64QAM	1	0	1	24	2	14.35
		64QAM	1	99	1	0	2	22.12

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		
39683	39800	QPSK	25	0	100	0	125	21.25
		QPSK	1	0	1	99	2	14.67
		QPSK	1	24	1	0	2	23.28
		16QAM	25	0	100	0	125	20.28
		16QAM	1	0	1	99	2	14.79
		16QAM	1	24	1	0	2	22.38
		64QAM	25	0	100	0	125	20.25
		64QAM	1	0	1	99	2	14.70
		64QAM	1	24	1	0	2	22.36
40528	40645	QPSK	25	0	100	0	125	20.99
		QPSK	1	0	1	99	2	14.52
		QPSK	1	24	1	0	2	22.98
		16QAM	25	0	100	0	125	20.03
		16QAM	1	0	1	99	2	14.52
		16QAM	1	24	1	0	2	21.94
		64QAM	25	0	100	0	125	20.01
		64QAM	1	0	1	99	2	14.57
		64QAM	1	24	1	0	2	21.94
41373	41490	QPSK	25	0	100	0	125	21.10
		QPSK	1	0	1	99	2	14.40
		QPSK	1	24	1	0	2	23.10
		16QAM	25	0	100	0	125	20.12
		16QAM	1	0	1	99	2	14.49
		16QAM	1	24	1	0	2	22.11
		64QAM	25	0	100	0	125	20.11
		64QAM	1	0	1	99	2	14.35
		64QAM	1	24	1	0	2	22.12

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	75	0	75	0	150	21.28
		QPSK	1	0	1	74	2	14.74
		QPSK	1	74	1	0	2	23.28
		16QAM	75	0	75	0	150	20.30
		16QAM	1	0	1	74	2	14.83
		16QAM	1	74	1	0	2	22.48
		64QAM	75	0	75	0	150	20.32
		64QAM	1	0	1	74	2	14.78
		64QAM	1	74	1	0	2	22.39
40545	40695	QPSK	75	0	75	0	150	21.03
		QPSK	1	0	1	74	2	14.54
		QPSK	1	74	1	0	2	22.99
		16QAM	75	0	75	0	150	20.08
		16QAM	1	0	1	74	2	14.55
		16QAM	1	74	1	0	2	22.07
		64QAM	75	0	75	0	150	20.09
		64QAM	1	0	1	74	2	14.62
		64QAM	1	74	1	0	2	22.11
41365	41515	QPSK	75	0	75	0	150	21.03
		QPSK	1	0	1	74	2	14.43
		QPSK	1	74	1	0	2	22.97
		16QAM	75	0	75	0	150	20.06
		16QAM	1	0	1	74	2	14.53
		16QAM	1	74	1	0	2	22.03
		64QAM	75	0	75	0	150	20.08
		64QAM	1	0	1	74	2	14.37
		64QAM	1	74	1	0	2	21.98

Combination 15MHz+10MHz (75RB+50RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
39725	39845	QPSK	75	0	50	0	125	21.29
		QPSK	1	0	1	49	2	14.69
		QPSK	1	74	1	0	2	23.28
		16QAM	75	0	50	0	125	20.28
		16QAM	1	0	1	49	2	14.73
		16QAM	1	74	1	0	2	22.38
		64QAM	75	0	50	0	125	20.25
		64QAM	1	0	1	49	2	14.78
		64QAM	1	74	1	0	2	22.30
40571	40691	QPSK	75	0	50	0	125	21.03
		QPSK	1	0	1	49	2	14.54
		QPSK	1	74	1	0	2	22.92
		16QAM	75	0	50	0	125	20.01
		16QAM	1	0	1	49	2	14.52
		16QAM	1	74	1	0	2	21.94
		64QAM	75	0	50	0	125	20.01
		64QAM	1	0	1	49	2	14.57
		64QAM	1	74	1	0	2	21.94
41417	41537	QPSK	75	0	50	0	125	21.10
		QPSK	1	0	1	49	2	14.34
		QPSK	1	74	1	0	2	23.18
		16QAM	75	0	50	0	125	20.12
		16QAM	1	0	1	49	2	14.49
		16QAM	1	74	1	0	2	22.11
		64QAM	75	0	50	0	125	20.11
		64QAM	1	0	1	49	2	14.35
		64QAM	1	74	1	0	2	22.18

Combination 10MHz+15MHz (50RB+75RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
39703	39823	QPSK	50	0	75	0	125	21.18
		QPSK	1	49	1	0	2	14.50
		QPSK	1	0	1	74	2	23.22
		16QAM	50	0	75	0	125	20.25
		16QAM	1	49	1	0	2	14.83
		16QAM	1	0	1	74	2	22.25
		64QAM	50	0	75	0	125	20.23
		64QAM	1	49	1	0	2	14.33
		64QAM	1	0	1	74	2	19.90
40549	40669	QPSK	50	0	75	0	125	20.96
		QPSK	1	49	1	0	2	14.48
		QPSK	1	0	1	74	2	22.85
		16QAM	50	0	75	0	125	20.95
		16QAM	1	49	1	0	2	14.63
		16QAM	1	0	1	74	2	21.95
		64QAM	50	0	75	0	125	20.08
		64QAM	1	49	1	0	2	14.29
		64QAM	1	0	1	74	2	19.75
41395	41515	QPSK	50	0	75	0	125	20.99
		QPSK	1	49	1	0	2	14.35
		QPSK	1	0	1	74	2	22.92
		16QAM	50	0	75	0	125	21.01
		16QAM	1	49	1	0	2	14.39
		16QAM	1	0	1	74	2	22.97
		64QAM	50	0	75	0	125	20.09
		64QAM	1	49	1	0	2	14.16
		64QAM	1	0	1	74	2	19.78

ERP/EIRP

LTE Band 7 (GT - LC = 3.00 dB) QPSK			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	22.96	22.85	22.86
Conducted Power (Watts)	0.1977	0.1928	0.1932
EIRP(dBm)	25.96	25.85	25.86
EIRP(Watts)	0.3945	0.3846	0.3855

LTE Band 7 (GT - LC = 3.00 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
Conducted Power (dBm)	23.02	23.00	22.96	23.05	23.12	22.97	23.03	23.03	22.98
Conducted Power (Watts)	0.2004	0.1995	0.1977	0.2018	0.2051	0.1982	0.2009	0.2009	0.1986
EIRP(dBm)	26.02	26.00	25.96	26.05	26.12	25.97	26.03	26.03	25.98
EIRP(Watts)	0.3999	0.3981	0.3945	0.4027	0.4093	0.3954	0.4009	0.4009	0.3963

LTE Band 7 (GT - LC = 3.00 dB) 16QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	22.20	22.24	22.10
Conducted Power (Watts)	0.1660	0.1675	0.1622
EIRP(dBm)	25.20	25.24	25.10
EIRP(Watts)	0.3311	0.3342	0.3236

LTE Band 7 (GT - LC = 3.00 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
Conducted Power (dBm)	22.22	22.35	22.27	22.29	22.29	22.17	22.26	22.27	22.17
Conducted Power (Watts)	0.1667	0.1718	0.1687	0.1694	0.1694	0.1648	0.1683	0.1687	0.1648
EIRP(dBm)	25.22	25.35	25.27	25.29	25.29	25.17	25.26	25.27	25.17
EIRP(Watts)	0.3327	0.3428	0.3365	0.3381	0.3381	0.3289	0.3357	0.3365	0.3289

LTE Band 7 (GT - LC = 3.00 dB) 64QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	21.10	21.16	21.02
Conducted Power (Watts)	0.1288	0.1306	0.1265
EIRP(dBm)	24.10	24.16	24.02
EIRP(Watts)	0.2570	0.2606	0.2523

LTE Band 7 (GT - LC = 3.00 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
Conducted Power (dBm)	21.16	21.21	21.04	21.24	21.24	21.23	21.21	21.27	21.14
Conducted Power (Watts)	0.1306	0.1321	0.1271	0.1330	0.1330	0.1327	0.1321	0.1340	0.1300
EIRP(dBm)	24.16	24.21	24.04	24.24	24.24	24.23	24.21	24.27	24.14
EIRP(Watts)	0.2606	0.2636	0.2535	0.2655	0.2655	0.2649	0.2636	0.2673	0.2594

LTE Band 12 (GT - LC = 3.95 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	22.55	22.80	22.68	22.64	22.78	22.75	22.73	22.83	22.67
Conducted Power (Watts)	0.1799	0.1905	0.1854	0.1837	0.1897	0.1884	0.1875	0.1919	0.1849
ERP(dBm)	24.35	24.60	24.48	24.44	24.58	24.55	24.53	24.63	24.47
ERP(Watts)	0.2723	0.2884	0.2805	0.2780	0.2871	0.2851	0.2838	0.2904	0.2799

LTE Band 12 (GT - LC = 3.95 dB) QPSK			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	22.69	22.76	22.82
Conducted Power (Watts)	0.1858	0.1888	0.1914
ERP(dBm)	24.49	24.56	24.62
ERP(Watts)	0.2812	0.2858	0.2897

LTE Band 12 (GT - LC = 3.95 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)	21.77	22.12	21.95	21.89	22.09	22.04	21.83	22.07	21.95
Conducted Power (Watts)	0.1503	0.1629	0.1567	0.1545	0.1618	0.1600	0.1524	0.1611	0.1567
ERP(dBm)	23.57	23.92	23.75	23.69	23.89	23.84	23.63	23.87	23.75
ERP(Watts)	0.2275	0.2466	0.2371	0.2339	0.2449	0.2421	0.2307	0.2438	0.2371

LTE Band 12 (GT - LC = 3.95 dB) 16QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	22.00	22.11	22.12
Conducted Power (Watts)	0.1585	0.1626	0.1629
ERP(dBm)	23.80	23.91	23.92
ERP(Watts)	0.2399	0.2460	0.2466

LTE Band 12 (GT - LC = 3.95 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	20.80	20.99	20.92	20.87	21.05	20.94	20.90	20.98	20.93
Conducted Power (Watts)	0.1202	0.1256	0.1236	0.1222	0.1274	0.1242	0.1230	0.1253	0.1239
ERP(dBm)	22.60	22.79	22.72	22.67	22.85	22.74	22.70	22.78	22.73
ERP(Watts)	0.1820	0.1901	0.1871	0.1849	0.1928	0.1879	0.1862	0.1897	0.1875

LTE Band 12 (GT - LC = 3.95 dB) 64QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	20.93	20.99	21.03
Conducted Power (Watts)	0.1239	0.1256	0.1268
ERP(dBm)	22.73	22.79	22.83
ERP(Watts)	0.1875	0.1901	0.1919

LTE Band 13 (GT - LC = 4.45 dB) QPSK						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency (MHz)	779.5	782	784.5	-	782	-
Conducted Power (dBm)	22.74	22.76	22.71		22.73	-
Conducted Power (Watts)	0.1879	0.1888	0.1866		0.1875	-
ERP(dBm)	25.04	25.06	25.01		25.03	-
ERP(Watts)	0.3192	0.3206	0.3170		0.3184	-

LTE Band 13 (GT - LC = 4.45 dB) 16QAM						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency (MHz)	779.5	782	784.5	-	782	-
Conducted Power (dBm)	21.97	21.99	21.97		21.97	-
Conducted Power (Watts)	0.1574	0.1581	0.1574		0.1574	-
ERP(dBm)	24.27	24.29	24.27		24.27	-
ERP(Watts)	0.2673	0.2685	0.2673		0.2673	-

LTE Band 13 (GT - LC = 4.45 dB) 64QAM						
Bandwidth	5M			10M		
Channel	23205	23230	23255	23230		
	(Low)	(Mid)	(High)	-	(Mid)	-
Frequency (MHz)	779.5	782	784.5	-	782	-
Conducted Power (dBm)	20.93	20.96	20.98		20.92	-
Conducted Power (Watts)	0.1239	0.1247	0.1253		0.1236	-
ERP(dBm)	23.23	23.26	23.28		23.22	-
ERP(Watts)	0.2104	0.2118	0.2128		0.2099	-

LTE Band 25 (GT - LC = 1.59 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	26407	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
Conducted Power (dBm)	22.51	22.56	22.80	22.34	22.69	22.77	22.40	22.71	22.85
Conducted Power (Watts)	0.1782	0.1803	0.1905	0.1714	0.1858	0.1892	0.1738	0.1866	0.1928
EIRP(dBm)	24.10	24.15	24.39	23.93	24.28	24.36	23.99	24.30	24.44
EIRP(Watts)	0.2570	0.2600	0.2748	0.2472	0.2679	0.2729	0.2506	0.2692	0.2780

LTE Band 25 (GT - LC = 1.59 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
Conducted Power (dBm)	22.42	22.80	22.90	22.46	22.78	22.82	22.38	22.65	23.10
Conducted Power (Watts)	0.1746	0.1905	0.1950	0.1762	0.1897	0.1914	0.1730	0.1841	0.2042
EIRP(dBm)	24.01	24.39	24.49	24.05	24.37	24.41	23.97	24.24	24.69
EIRP(Watts)	0.2518	0.2748	0.2812	0.2541	0.2735	0.2761	0.2495	0.2655	0.2944

LTE Band 25 (GT - LC = 1.59 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	26407	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
Conducted Power (dBm)	21.91	21.91	22.18	21.64	22.07	22.10	21.74	22.03	22.17
Conducted Power (Watts)	0.1552	0.1552	0.1652	0.1459	0.1611	0.1622	0.1493	0.1596	0.1648
EIRP(dBm)	23.50	23.50	23.77	23.23	23.66	23.69	23.33	23.62	23.76
EIRP(Watts)	0.2239	0.2239	0.2382	0.2104	0.2323	0.2339	0.2153	0.2301	0.2377

LTE Band 25 (GT - LC = 1.59 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
Conducted Power (dBm)	21.70	22.10	22.08	21.74	22.02	22.08	21.86	21.94	22.17
Conducted Power (Watts)	0.1479	0.1622	0.1614	0.1493	0.1592	0.1614	0.1535	0.1563	0.1648
EIRP(dBm)	23.29	23.69	23.67	23.33	23.61	23.67	23.45	23.53	23.76
EIRP(Watts)	0.2133	0.2339	0.2328	0.2153	0.2296	0.2328	0.2213	0.2254	0.2377

LTE Band 25 (GT - LC = 1.59 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	26407	26340	26683	26055	26340	26675	26065	26340	26665
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1914.3	1851.5	1880	1913.5	1852.5	1880	1912.5
Conducted Power (dBm)	20.71	20.92	21.08	20.63	20.92	21.10	20.62	21.06	21.12
Conducted Power (Watts)	0.1178	0.1236	0.1282	0.1156	0.1236	0.1288	0.1153	0.1276	0.1294
EIRP(dBm)	22.30	22.51	22.67	22.22	22.51	22.69	22.21	22.65	22.71
EIRP(Watts)	0.1698	0.1782	0.1849	0.1667	0.1782	0.1858	0.1663	0.1841	0.1866

LTE Band 25 (GT - LC = 1.59 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	26090	26340	26640	26115	26340	26615	26140	26340	26590
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1910	1857.5	1880	1907.5	1860	1880	1905
Conducted Power (dBm)	20.64	21.02	21.09	20.65	21.12	20.98	20.85	21.02	21.10
Conducted Power (Watts)	0.1159	0.1265	0.1285	0.1161	0.1294	0.1253	0.1216	0.1265	0.1288
EIRP(dBm)	22.23	22.61	22.68	22.24	22.71	22.57	22.44	22.61	22.69
EIRP(Watts)	0.1671	0.1824	0.1854	0.1675	0.1866	0.1807	0.1754	0.1824	0.1858

LTE Band 26 (GT - LC = 2.53 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	22.47	22.67	22.72	22.61	22.72	22.80	22.68	22.85	22.83
Conducted Power (Watts)	0.1766	0.1849	0.1871	0.1824	0.1871	0.1905	0.1854	0.1928	0.1919
ERP(dBm)	22.85	23.05	23.10	22.99	23.10	23.18	23.06	23.23	23.21
ERP(Watts)	0.1928	0.2018	0.2042	0.1991	0.2042	0.2080	0.2023	0.2104	0.2094

LTE Band 26 (GT - LC = 2.53 dB) QPSK							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency (MHz)	829	836.5	844	831.5	836.5	841.5	821.5
Conducted Power (dBm)	22.62	22.81	22.82	22.68	22.75	23.06	22.68
Conducted Power (Watts)	0.1828	0.1910	0.1914	0.1854	0.1884	0.2023	0.1854
ERP(dBm)	23.00	23.19	23.20	23.06	23.13	23.44	23.06
ERP(Watts)	0.1995	0.2084	0.2089	0.2023	0.2056	0.2208	0.2023

LTE Band 26 (GT - LC = 2.53 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	21.90	21.98	22.06	21.84	22.03	22.17	21.94	22.03	22.24
Conducted Power (Watts)	0.1549	0.1578	0.1607	0.1528	0.1596	0.1648	0.1563	0.1596	0.1675
ERP(dBm)	22.28	22.36	22.44	22.22	22.41	22.55	22.32	22.41	22.62
ERP(Watts)	0.1690	0.1722	0.1754	0.1667	0.1742	0.1799	0.1706	0.1742	0.1828

LTE Band 26 (GT - LC = 2.53 dB) 16QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency (MHz)	829	836.5	844	831.5	836.5	841.5	821.5
Conducted Power (dBm)	21.92	21.98	22.14	21.97	22.08	22.23	22.04
Conducted Power (Watts)	0.1556	0.1578	0.1637	0.1574	0.1614	0.1671	0.1600
ERP(dBm)	22.30	22.36	22.52	22.35	22.46	22.61	22.42
ERP(Watts)	0.1698	0.1722	0.1786	0.1718	0.1762	0.1824	0.1746

LTE Band 26 (GT - LC = 2.53 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	20.71	20.80	21.03	20.79	20.87	21.07	20.83	21.14	21.02
Conducted Power (Watts)	0.1178	0.1202	0.1268	0.1199	0.1222	0.1279	0.1211	0.1300	0.1265
ERP(dBm)	21.09	21.18	21.41	21.17	21.25	21.45	21.21	21.52	21.40
ERP(Watts)	0.1285	0.1312	0.1384	0.1309	0.1334	0.1396	0.1321	0.1419	0.1380

LTE Band 26 (GT - LC = 2.53 dB) 64QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency (MHz)	829	836.5	844	831.5	836.5	841.5	821.5
Conducted Power (dBm)	20.86	21.01	21.20	20.95	21.05	21.13	20.99
Conducted Power (Watts)	0.1219	0.1262	0.1318	0.1245	0.1274	0.1297	0.1256
ERP(dBm)	21.24	21.39	21.58	21.33	21.43	21.51	21.37
ERP(Watts)	0.1330	0.1377	0.1439	0.1358	0.1390	0.1416	0.1371

LTE Band 41 (G_T - L_C = 3.60 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 (MHz)	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
Conducted Power (dBm)	23.30	22.92	22.91	23.33	22.97	23.05	23.25	22.91	22.87
Conducted Power (Watts)	0.2138	0.1959	0.1954	0.2153	0.1982	0.2018	0.2113	0.1954	0.1936
EIRP(dBm)	26.90	26.52	26.51	26.93	26.57	26.65	26.85	26.51	26.47
EIRP(Watts)	0.4898	0.4487	0.4477	0.4932	0.4539	0.4624	0.4842	0.4477	0.4436

LTE Band 41 (G_T - L_C = 3.60 dB) QPSK			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency (MHz)	2506	2593	2680
Conducted Power (dBm)	23.34	23.08	23.15
Conducted Power (Watts)	0.2158	0.2032	0.2065
EIRP(dBm)	26.94	26.68	26.75
EIRP(Watts)	0.4943	0.4656	0.4732

LTE Band 41 (G_T - L_C = 3.60 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 (MHz)	**2498.5**	**2593**	**2687.5**	**2501**	**2593**	**2685**	**2503.5**	**2593**	**2682.5**
Conducted Power (dBm)	22.35	22.05	22.12	22.42	22.17	22.20	22.38	22.20	22.31
Conducted Power (Watts)	0.1718	0.1603	0.1629	0.1746	0.1648	0.1660	0.1730	0.1660	0.1702
EIRP(dBm)	25.95	25.65	25.72	26.02	25.77	25.80	25.98	25.80	25.91
EIRP(Watts)	0.3936	0.3673	0.3733	0.3999	0.3776	0.3802	0.3963	0.3802	0.3899

LTE Band 41 (G_T - L_C = 3.60 dB) 16QAM			
Bandwidth	**20M**		
Channel	**39750**	**40620**	**41490**
	(Low)	**(Mid)**	**(High)**
Frequency (MHz)	**2506**	**2593**	**2680**
Conducted Power (dBm)	22.30	22.26	22.30
Conducted Power (Watts)	0.1698	0.1683	0.1698
EIRP(dBm)	25.90	25.86	25.90
EIRP(Watts)	0.3890	0.3855	0.3890

LTE Band 41 (G_T - L_C = 3.60 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 (MHz)	**2498.5**	**2593**	**2687.5**	**2501**	**2593**	**2685**	**2503.5**	**2593**	**2682.5**
Conducted Power (dBm)	20.98	20.64	20.71	21.04	20.74	20.82	21.03	20.79	20.94
Conducted Power (Watts)	0.1253	0.1159	0.1178	0.1271	0.1186	0.1208	0.1268	0.1199	0.1242
EIRP(dBm)	24.58	24.24	24.31	24.64	24.34	24.42	24.63	24.39	24.54
EIRP(Watts)	0.2871	0.2655	0.2698	0.2911	0.2716	0.2767	0.2904	0.2748	0.2844

LTE Band 41 (G_T - L_C = 3.60 dB) 64QAM			
Bandwidth	**20M**		
Channel	**39750**	**40620**	**41490**
	(Low)	**(Mid)**	**(High)**
Frequency (MHz)	**2506**	**2593**	**2680**
Conducted Power (dBm)	20.95	20.84	20.91
Conducted Power (Watts)	0.1245	0.1213	0.1233
EIRP(dBm)	24.55	24.44	24.51
EIRP(Watts)	0.2851	0.2780	0.2825

LTE Band 66 (GT - LC = 2.00 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
Conducted Power (dBm)	22.72	22.86	22.84	22.67	22.84	22.79	22.72	22.85	22.82
Conducted Power (Watts)	0.1871	0.1932	0.1923	0.1849	0.1923	0.1901	0.1871	0.1928	0.1914
EIRP(dBm)	24.72	24.86	24.84	24.67	24.84	24.79	24.72	24.85	24.82
EIRP(Watts)	0.2965	0.3062	0.3048	0.2931	0.3048	0.3013	0.2965	0.3055	0.3034

LTE Band 66 (GT - LC = 2.00 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
Conducted Power (dBm)	22.74	22.88	22.86	22.82	22.99	22.97	22.81	23.22	22.98
Conducted Power (Watts)	0.1879	0.1941	0.1932	0.1914	0.1991	0.1982	0.1910	0.2099	0.1986
EIRP(dBm)	24.74	24.88	24.86	24.82	24.99	24.97	24.81	25.22	24.98
EIRP(Watts)	0.2979	0.3076	0.3062	0.3034	0.3155	0.3141	0.3027	0.3327	0.3148

LTE Band 66 (GT - LC = 2.00 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
Conducted Power (dBm)	21.95	22.20	22.09	21.93	22.16	22.11	21.93	22.21	22.11
Conducted Power (Watts)	0.1567	0.1660	0.1618	0.1560	0.1644	0.1626	0.1560	0.1663	0.1626
EIRP(dBm)	23.95	24.20	24.09	23.93	24.16	24.11	23.93	24.21	24.11
EIRP(Watts)	0.2483	0.2630	0.2564	0.2472	0.2606	0.2576	0.2472	0.2636	0.2576

LTE Band 66 (GT - LC = 2.00 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
Conducted Power (dBm)	21.91	22.17	22.07	22.13	22.16	22.23	21.99	22.31	22.35
Conducted Power (Watts)	0.1552	0.1648	0.1611	0.1633	0.1644	0.1671	0.1581	0.1702	0.1718
EIRP(dBm)	23.91	24.17	24.07	24.13	24.16	24.23	23.99	24.31	24.35
EIRP(Watts)	0.2460	0.2612	0.2553	0.2588	0.2606	0.2649	0.2506	0.2698	0.2723

LTE Band 66 (GT - LC = 2.00 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	131979	132322	132665	131987	132322	132657	131997	132322	132647
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1745	1779.3	1711.5	1745	1778.5	1712.5	1745	1777.5
Conducted Power (dBm)	20.85	21.13	21.05	20.84	21.13	21.04	20.94	21.11	21.13
Conducted Power (Watts)	0.1216	0.1297	0.1274	0.1213	0.1297	0.1271	0.1242	0.1291	0.1297
EIRP(dBm)	22.85	23.13	23.05	22.84	23.13	23.04	22.94	23.11	23.13
EIRP(Watts)	0.1928	0.2056	0.2018	0.1923	0.2056	0.2014	0.1968	0.2046	0.2056

LTE Band 66 (GT - LC = 2.00 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	132022	132322	132622	132047	132322	132597	132072	132322	132572
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(Mid)
Frequency (MHz)	1715	1745	1775	1717.5	1745	1772.5	1720	1745	1770
Conducted Power (dBm)	20.91	21.21	21.15	21.12	21.14	21.12	20.99	21.23	21.21
Conducted Power (Watts)	0.1233	0.1321	0.1303	0.1294	0.1300	0.1294	0.1256	0.1327	0.1321
EIRP(dBm)	22.91	23.21	23.15	23.12	23.14	23.12	22.99	23.23	23.21
EIRP(Watts)	0.1954	0.2094	0.2065	0.2051	0.2061	0.2051	0.1991	0.2104	0.2094

LTE Band 71 (GT - LC = 1.66 dB) QPSK									
Bandwidth	5M			10M			15M		
Channel	133147	133297	133447	133172	133297	133422	133197	133297	133397
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	665.5	680.5	695.5	668	680.5	693	670.5	680.5	690.5
Conducted Power (dBm)	22.78	22.70	22.61	22.84	22.74	22.74	23.04	22.75	22.95
Conducted Power (Watts)	0.1897	0.1862	0.1824	0.1923	0.1879	0.1879	0.2014	0.1884	0.1972
ERP(dBm)	22.29	22.21	22.12	22.35	22.25	22.25	22.55	22.26	22.46
ERP(Watts)	0.1694	0.1663	0.1629	0.1718	0.1679	0.1679	0.1799	0.1683	0.1762

LTE Band 71 (GT - LC = 1.66 dB) QPSK			
Bandwidth	20M		
Channel	133222	133297	133372
	(Low)	(Mid)	(High)
Frequency (MHz)	673	680.5	688
Conducted Power (dBm)	23.56	23.62	23.73
Conducted Power (Watts)	0.2270	0.2301	0.2360
ERP(dBm)	23.07	23.13	23.24
ERP(Watts)	0.2028	0.2056	0.2109

LTE Band 71 (GT - LC = 1.66 dB) 16QAM									
Bandwidth	5M			10M			15M		
Channel	133147	133297	133447	133172	133297	133422	133197	133297	133397
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	665.5	680.5	695.5	668	680.5	693	670.5	680.5	690.5
Conducted Power (dBm)	21.96	21.88	21.83	21.97	21.94	22.02	22.56	22.33	22.41
Conducted Power (Watts)	0.1570	0.1542	0.1524	0.1574	0.1563	0.1592	0.1803	0.1710	0.1742
ERP(dBm)	21.47	21.39	21.34	21.48	21.45	21.53	22.07	21.84	21.92
ERP(Watts)	0.1403	0.1377	0.1361	0.1406	0.1396	0.1422	0.1611	0.1528	0.1556

LTE Band 71 (GT - LC = 1.66 dB) 16QAM			
Bandwidth	20M		
Channel	133222	133297	133372
	(Low)	(Mid)	(High)
Frequency (MHz)	673	680.5	688
Conducted Power (dBm)	22.72	22.87	22.95
Conducted Power (Watts)	0.1871	0.1936	0.1972
ERP(dBm)	22.23	22.38	22.46
ERP(Watts)	0.1671	0.1730	0.1762

LTE Band 71 (GT - LC = 1.66 dB) 64QAM									
Bandwidth	5M			10M			15M		
Channel	133147	133297	133447	133172	133297	133422	133197	133297	133397
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	665.5	680.5	695.5	668	680.5	693	670.5	680.5	690.5
Conducted Power (dBm)	20.91	20.89	20.85	21.00	20.94	20.92	21.44	21.42	21.39
Conducted Power (Watts)	0.1233	0.1227	0.1216	0.1259	0.1242	0.1236	0.1393	0.1387	0.1377
ERP(dBm)	20.42	20.40	20.36	20.51	20.45	20.43	20.95	20.93	20.90
ERP(Watts)	0.1102	0.1096	0.1086	0.1125	0.1109	0.1104	0.1245	0.1239	0.1230

LTE Band 71 (GT - LC = 1.66 dB) 64QAM			
Bandwidth	20M		
Channel	133222	133297	133372
	(Low)	(Mid)	(High)
Frequency (MHz)	673	680.5	688
Conducted Power (dBm)	21.79	21.71	21.90
Conducted Power (Watts)	0.1510	0.1483	0.1549
ERP(dBm)	21.30	21.22	21.41
ERP(Watts)	0.1349	0.1324	0.1384

CA EIRP

LTE Band 7 CA (GT - LC = 3.00 dB) QPSK									
Bandwidth	15M + 15M			10M + 20M			20M+10M		
Channel PCC	20825	21025	21225	20805	21006	21206	20850	21051	21251
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20975	21175	21375	20949	21150	21350	20994	21195	21395
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.95	22.83	22.78	22.81	22.68	22.74	22.89	22.86	22.76
Conducted Power (Watts)	0.1972	0.1919	0.1897	0.1910	0.1854	0.1879	0.1945	0.1932	0.1888
EIRP(dBm)	25.95	25.83	25.78	25.81	25.68	25.74	25.89	25.86	25.76
EIRP(Watts)	0.3936	0.3828	0.3784	0.3811	0.3698	0.3750	0.3882	0.3855	0.3767

LTE Band 7 CA (GT - LC = 3.00 dB) QPSK									
Bandwidth	15M+20M			20M+15M			20M + 20M		
Channel PCC	20828	21003	21179	20850	21026	21201	20850	21001	21152
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20999	21174	21350	21021	21197	21372	21048	21199	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.88	22.86	22.88	23.16	23.04	23.08	23.16	23.04	23.08
Conducted Power (Watts)	0.1941	0.1932	0.1941	0.2070	0.2014	0.2032	0.2070	0.2014	0.2032
EIRP(dBm)	25.88	25.86	25.88	26.16	26.04	26.08	26.16	26.04	26.08
EIRP(Watts)	0.3873	0.3855	0.3873	0.4130	0.4018	0.4055	0.4130	0.4018	0.4055

LTE Band 7 CA (GT - LC = 3.00 dB) 16QAM									
Bandwidth	15M + 15M			10M + 20M			20M+10M		
Channel PCC	20825	21025	21225	20805	21006	21206	20850	21051	21251
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20975	21175	21375	20949	21150	21350	20994	21195	21395
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.28	21.98	22.16	22.15	22.14	22.15	22.47	22.22	22.1
Conducted Power (Watts)	0.1690	0.1578	0.1644	0.1641	0.1637	0.1641	0.1766	0.1667	0.1622
EIRP(dBm)	25.28	24.98	25.16	25.15	25.14	25.15	25.47	25.22	25.10
EIRP(Watts)	0.3373	0.3148	0.3281	0.3273	0.3266	0.3273	0.3524	0.3327	0.3236

LTE Band 7 CA (GT - LC = 3.00 dB) 16QAM									
Bandwidth	15M+20M			20M+15M			20M + 20M		
Channel PCC	20828	21003	21179	20850	21026	21201	20850	21001	21152
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20999	21174	21350	21021	21197	21372	21048	21199	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.16	22.15	22.05	22.45	22.38	22.16	22.45	22.38	22.16
Conducted Power (Watts)	0.1644	0.1641	0.1603	0.1758	0.1730	0.1644	0.1758	0.1730	0.1644
EIRP(dBm)	25.16	25.15	25.05	25.45	25.38	25.16	25.45	25.38	25.16
EIRP(Watts)	0.3281	0.3273	0.3199	0.3508	0.3451	0.3281	0.3508	0.3451	0.3281

LTE Band 7 CA (GT - LC = 3.00 dB) 64QAM									
Bandwidth	15M + 15M			10M + 20M			20M+10M		
Channel PCC	20825	21025	21225	20805	21006	21206	20850	21051	21251
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20975	21175	21375	20949	21150	21350	20994	21195	21395
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	20.12	20.01	20.02	20.03	19.98	20.06	20.16	20.16	20.04
Conducted Power (Watts)	0.1028	0.1002	0.1005	0.1007	0.0995	0.1014	0.1038	0.1038	0.1009
EIRP(dBm)	23.12	23.01	23.02	23.03	22.98	23.06	23.16	23.16	23.04
EIRP(Watts)	0.2051	0.2000	0.2004	0.2009	0.1986	0.2023	0.2070	0.2070	0.2014

LTE Band 7 CA (GT - LC = 3.00 dB) 64QAM									
Bandwidth	15M+20M			20M+15M			20M + 20M		
Channel PCC	20828	21003	21179	20850	21026	21201	20850	21001	21152
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	20999	21174	21350	21021	21197	21372	21048	21199	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	20.22	20.16	20.02	20.29	20.23	20.15	20.29	20.23	20.15
Conducted Power (Watts)	0.1052	0.1038	0.1005	0.1069	0.1054	0.1035	0.1069	0.1054	0.1035
EIRP(dBm)	23.22	23.16	23.02	23.29	23.23	23.15	23.29	23.23	23.15
EIRP(Watts)	0.2099	0.2070	0.2004	0.2133	0.2104	0.2065	0.2133	0.2104	0.2065

LTE Band 7 CA (GT - LC = 3.00 dB) QPSK			
Bandwidth	**15M + 10M**		
Channel PCC	**20825**	**21025**	**21225**
	(Low)	**(Mid)**	**(High)**
Channel SCC	**20975**	**21175**	**21375**
	(Low)	**(Mid)**	**(High)**
Conducted Power (dBm)	22.94	23.24	23.06
Conducted Power (Watts)	0.1968	0.2109	0.2023
EIRP(dBm)	25.94	26.24	26.06
EIRP(Watts)	0.3926	0.4207	0.4036

LTE Band 7 CA (GT - LC = 3.00 dB) 16QAM			
Bandwidth	**15M + 10M**		
Channel PCC	**20825**	**21025**	**21225**
	(Low)	**(Mid)**	**(High)**
Channel SCC	**20975**	**21175**	**21375**
	(Low)	**(Mid)**	**(High)**
Conducted Power (dBm)	22.27	22.57	22.38
Conducted Power (Watts)	0.1687	0.1807	0.1730
EIRP(dBm)	25.27	25.57	25.38
EIRP(Watts)	0.3365	0.3606	0.3451

LTE Band 7 CA (GT - LC = 3.00 dB) 64QAM			
Bandwidth	**15M + 10M**		
Channel PCC	**20825**	**21025**	**21225**
	(Low)	**(Mid)**	**(High)**
Channel SCC	**20975**	**21175**	**21375**
	(Low)	**(Mid)**	**(High)**
Conducted Power (dBm)	20.16	20.87	20.32
Conducted Power (Watts)	0.1038	0.1222	0.1076
EIRP(dBm)	23.16	23.87	23.32
EIRP(Watts)	0.2070	0.2438	0.2148

LTE Band 41 CA (GT - LC = 3.60 dB) QPSK									
Bandwidth	15M + 15M			5M + 20M			20M + 5M		
Channel PCC	39725	40545	41365	39683	40528	41373	39750	40595	41440
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39875	40695	41515	39800	40645	41490	39867	40712	41557
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.28	22.99	22.97	23.28	22.98	23.1	23.28	22.98	23.1
Conducted Power (Watts)	0.2128	0.1991	0.1982	0.2128	0.1986	0.2042	0.2128	0.1986	0.2042
EIRP(dBm)	26.88	26.59	26.57	26.88	26.58	26.70	26.88	26.58	26.70
EIRP(Watts)	0.4875	0.4560	0.4539	0.4875	0.4550	0.4677	0.4875	0.4550	0.4677

LTE Band 41 CA (GT - LC = 3.60 dB) QPSK									
Bandwidth	10M + 20M			20M + 10M			15M + 20M		
Channel PCC	39705	40526	41346	39750	40571	41391	39728	40523	41319
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39849	40670	41490	39894	40715	41535	39899	40694	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.27	22.95	23.15	23.27	22.96	23.02	23.25	23.05	23.24
Conducted Power (Watts)	0.2123	0.1972	0.2065	0.2123	0.1977	0.2004	0.2113	0.2018	0.2109
EIRP(dBm)	26.87	26.55	26.75	26.87	26.56	26.62	26.85	26.65	26.84
EIRP(Watts)	0.4864	0.4519	0.4732	0.4864	0.4529	0.4592	0.4842	0.4624	0.4831

LTE Band 41 CA (GT - LC = 3.60 dB) QPSK						
Bandwidth	**20M+15M**			**20M+20M**		
Channel PCC	**39750**	**40546**	**41341**	**39750**	**40521**	**41292**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Channel SCC	**39921**	**40717**	**41512**	**39948**	**40719**	**41490**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Conducted Power (dBm)	23.21	22.82	22.97	23.21	22.82	22.97
Conducted Power (Watts)	0.2094	0.1914	0.1982	0.2094	0.1914	0.1982
EIRP(dBm)	26.81	26.42	26.57	26.81	26.42	26.57
EIRP(Watts)	0.4797	0.4385	0.4539	0.4797	0.4385	0.4539

LTE Band 41 CA (GT - LC = 3.60 dB) QPSK						
Bandwidth	**15M+10M**			**10M+15M**		
Channel PCC	**39725**	**40571**	**41417**	**39703**	**40549**	**41395**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Channel SCC	**39845**	**40691**	**41537**	**39823**	**40669**	**41490**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Conducted Power (dBm)	23.28	22.92	23.18	23.22	22.85	22.92
Conducted Power (Watts)	0.2128	0.1959	0.2080	0.2099	0.1928	0.1959
EIRP(dBm)	26.88	26.52	26.78	26.82	26.45	26.52
EIRP(Watts)	0.4875	0.4487	0.4764	0.4808	0.4416	0.4487

LTE Band 41 CA (GT - LC = 3.60 dB) 16QAM									
Bandwidth	15M + 15M			5M + 20M			20M + 5M		
Channel PCC	39725	40545	41365	39683	40528	41373	39750	40595	41440
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39875	40695	41515	39800	40645	41490	39867	40712	41557
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.48	22.07	22.03	22.38	21.94	22.11	22.38	21.94	22.11
Conducted Power (Watts)	0.1770	0.1611	0.1596	0.1730	0.1563	0.1626	0.1730	0.1563	0.1626
EIRP(dBm)	26.08	25.67	25.63	25.98	25.54	25.71	25.98	25.54	25.71
EIRP(Watts)	0.4055	0.3690	0.3656	0.3963	0.3581	0.3724	0.3963	0.3581	0.3724

LTE Band 41 CA (GT - LC = 3.60 dB) 16QAM									
Bandwidth	10M + 20M			20M + 10M			15M + 20M		
Channel PCC	39705	40526	41346	39750	40571	41391	39728	40523	41319
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39849	40670	41490	39894	40715	41535	39899	40694	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.35	21.93	22.16	22.45	22.06	22.08	23.23	22.15	22.33
Conducted Power (Watts)	0.1718	0.1560	0.1644	0.1758	0.1607	0.1614	0.2104	0.1641	0.1710
EIRP(dBm)	25.95	25.53	25.76	26.05	25.66	25.68	26.83	25.75	25.93
EIRP(Watts)	0.3936	0.3573	0.3767	0.4027	0.3681	0.3698	0.4819	0.3758	0.3917

LTE Band 41 CA (GT - LC = 3.60 dB) 16QAM						
Bandwidth	**20M+15M**			**20M+20M**		
Channel PCC	**39750**	**40546**	**41341**	**39750**	**40521**	**41292**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Channel SCC	**39921**	**40717**	**41512**	**39948**	**40719**	**41490**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Conducted Power (dBm)	22.22	21.94	23.02	22.22	21.94	23.02
Conducted Power (Watts)	0.1667	0.1563	0.2004	0.1667	0.1563	0.2004
EIRP(dBm)	25.82	25.54	26.62	25.82	25.54	26.62
EIRP(Watts)	0.3819	0.3581	0.4592	0.3819	0.3581	0.4592

LTE Band 41 CA (GT - LC = 3.60 dB) 16QAM						
Bandwidth	**15M+10M**			**10M+15M**		
Channel PCC	**39725**	**40571**	**41417**	**39703**	**40549**	**41395**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Channel SCC	**39845**	**40691**	**41537**	**39823**	**40669**	**41490**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Conducted Power (dBm)	22.38	21.94	22.11	22.25	21.95	22.97
Conducted Power (Watts)	0.1730	0.1563	0.1626	0.1679	0.1567	0.1982
EIRP(dBm)	25.98	25.54	25.71	25.85	25.55	26.57
EIRP(Watts)	0.3963	0.3581	0.3724	0.3846	0.3589	0.4539

LTE Band 41 CA (GT - LC = 3.60 dB) 64QAM									
Bandwidth	15M + 15M			5M + 20M			20M + 5M		
Channel PCC	39725	40545	41365	39683	40528	41373	39750	40595	41440
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39875	40695	41515	39800	40645	41490	39867	40712	41557
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.39	22.11	21.98	22.36	21.94	22.12	22.36	21.94	22.12
Conducted Power (Watts)	0.1734	0.1626	0.1578	0.1722	0.1563	0.1629	0.1722	0.1563	0.1629
EIRP(dBm)	25.99	25.71	25.58	25.96	25.54	25.72	25.96	25.54	25.72
EIRP(Watts)	0.3972	0.3724	0.3614	0.3945	0.3581	0.3733	0.3945	0.3581	0.3733

LTE Band 41 CA (GT - LC = 3.60 dB) 64QAM									
Bandwidth	10M + 20M			20M + 10M			15M + 20M		
Channel PCC	39705	40526	41346	39750	40571	41391	39728	40523	41319
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39849	40670	41490	39894	40715	41535	39899	40694	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.33	21.91	22.15	22.36	22.08	22.01	21.95	21.99	22.14
Conducted Power (Watts)	0.1710	0.1552	0.1641	0.1722	0.1614	0.1589	0.1567	0.1581	0.1637
EIRP(dBm)	25.93	25.51	25.75	25.96	25.68	25.61	25.55	25.59	25.74
EIRP(Watts)	0.3917	0.3556	0.3758	0.3945	0.3698	0.3639	0.3589	0.3622	0.3750

LTE Band 41 CA (GT - LC = 3.60 dB) 64QAM						
Bandwidth	20M+15M			20M+20M		
Channel PCC	39750	40546	41341	39750	40521	41292
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	39921	40717	41512	39948	40719	41490
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	20.26	20.11	20.12	20.26	20.11	20.12
Conducted Power (Watts)	0.1062	0.1026	0.1028	0.1062	0.1026	0.1028
EIRP(dBm)	23.86	23.71	23.72	23.86	23.71	23.72
EIRP(Watts)	0.2432	0.2350	0.2355	0.2432	0.2350	0.2355

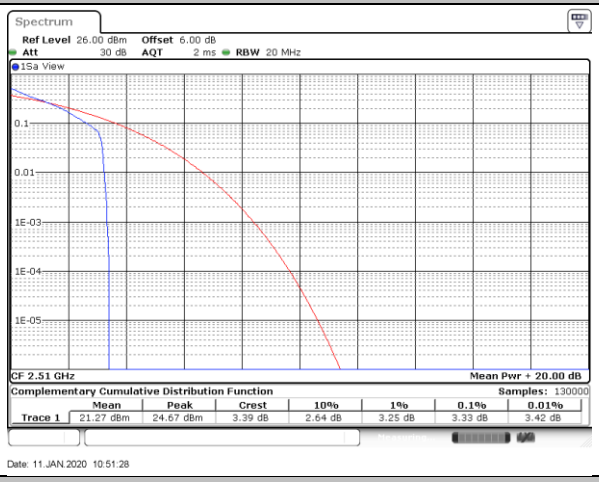
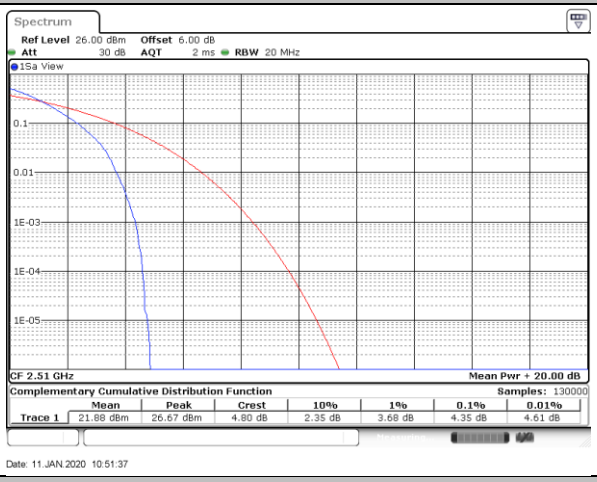
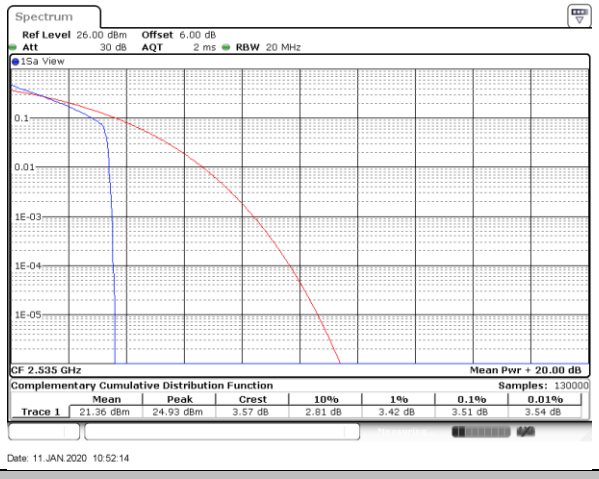
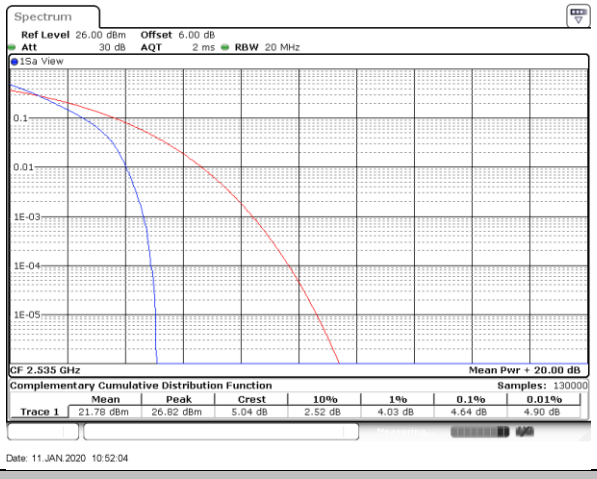
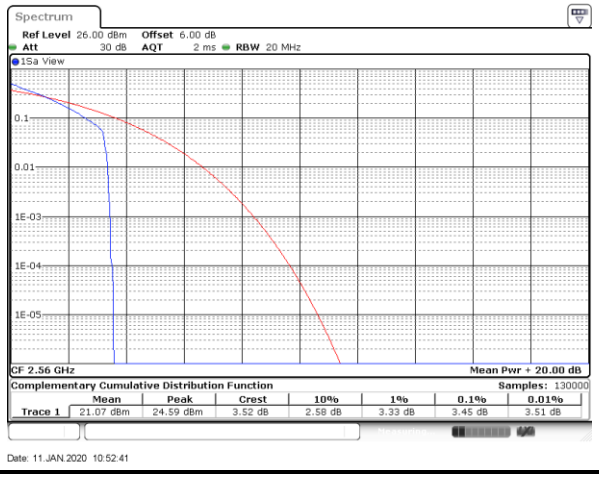
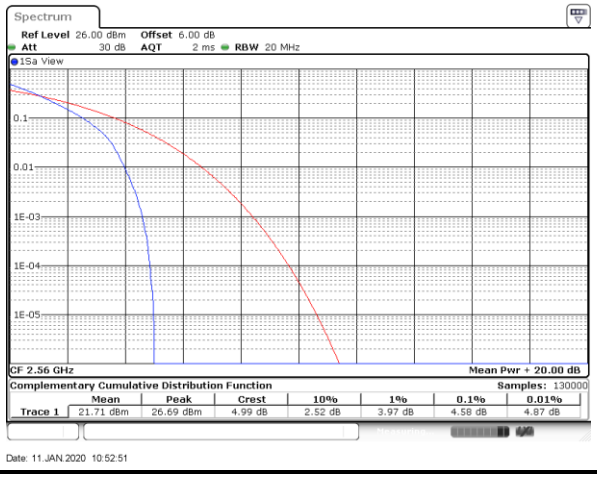
LTE Band 41 CA (GT - LC = 3.60 dB) 64QAM						
Bandwidth	**15M+10M**			**10M+15M**		
Channel PCC	**39725**	**40571**	**41417**	**39703**	**40549**	**41395**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Channel SCC	**39845**	**40691**	**41537**	**39823**	**40669**	**41490**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Conducted Power (dBm)	22.30	21.94	22.18	20.23	20.08	20.09
Conducted Power (Watts)	0.1698	0.1563	0.1652	0.1054	0.1019	0.1021
EIRP(dBm)	25.90	25.54	25.78	23.83	23.68	23.69
EIRP(Watts)	0.3890	0.3581	0.3784	0.2415	0.2333	0.2339

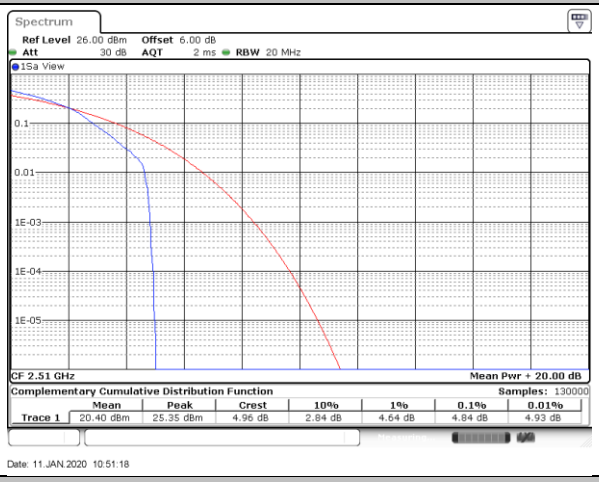
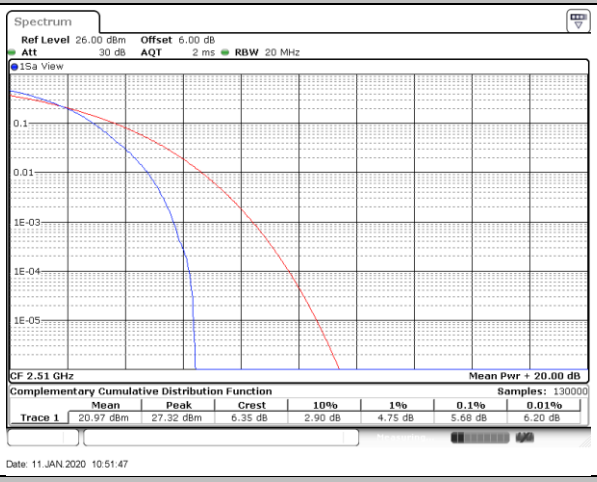
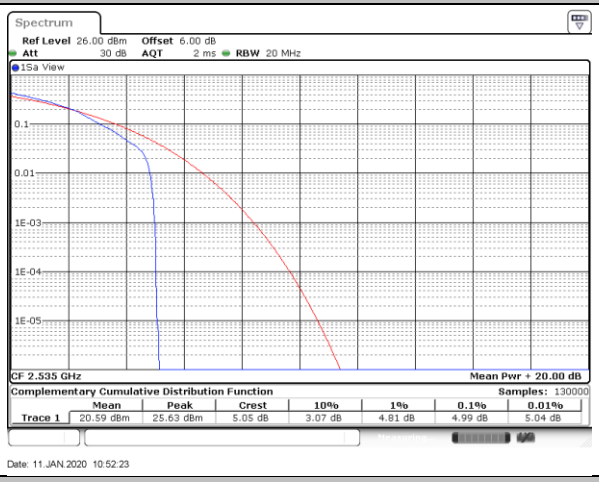
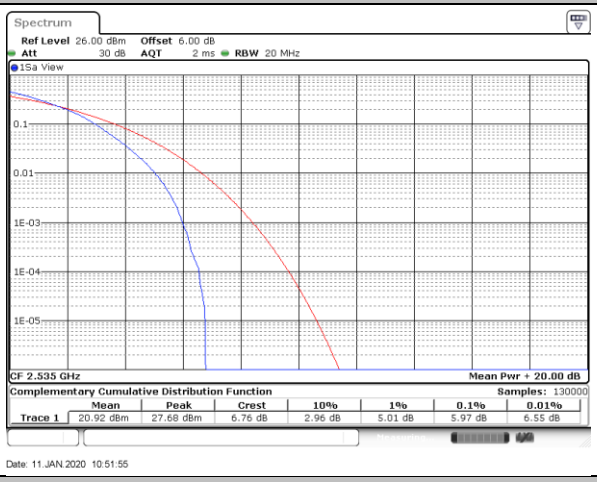
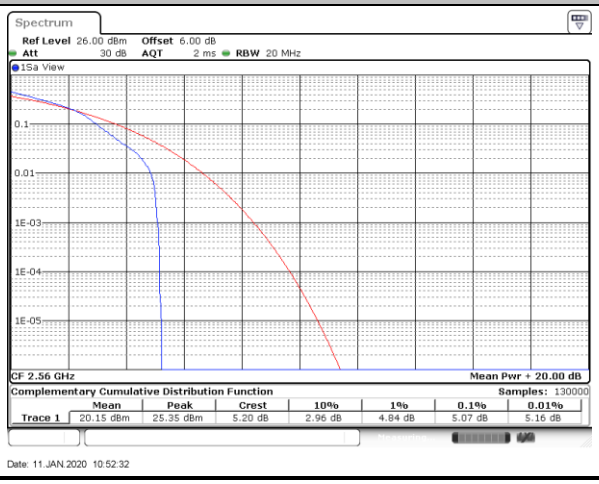
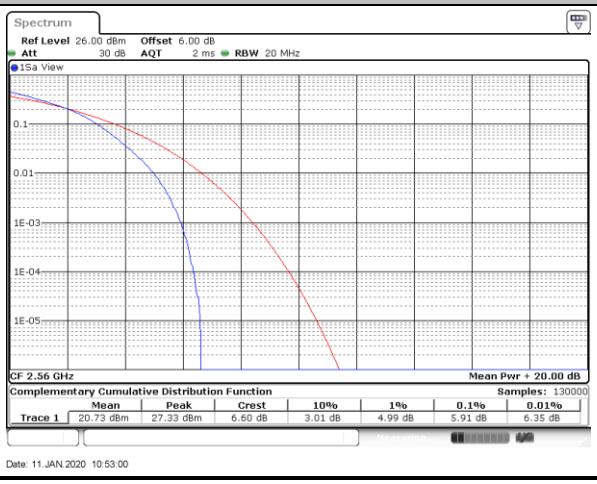
LTE Band 7

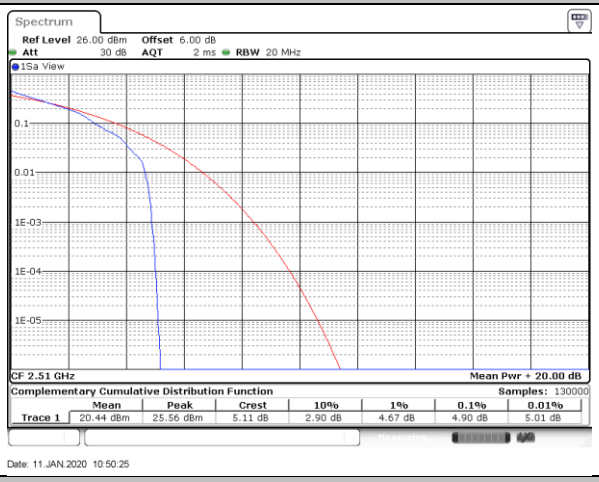
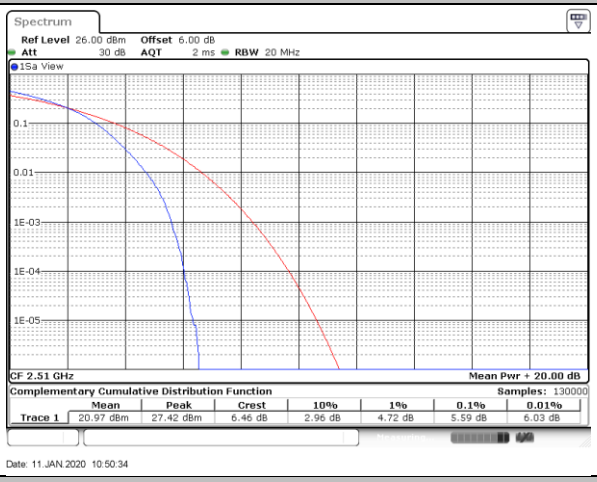
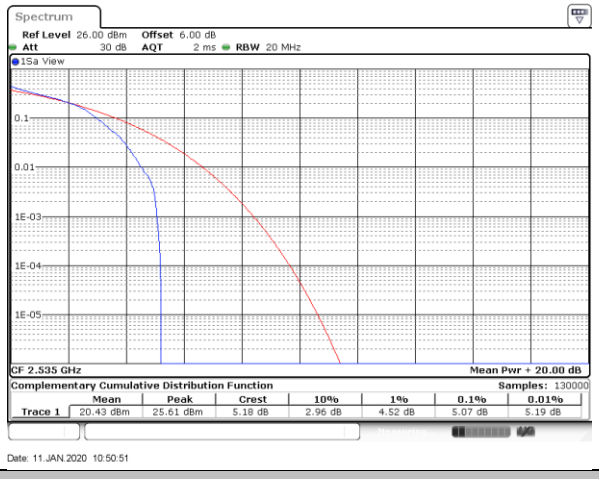
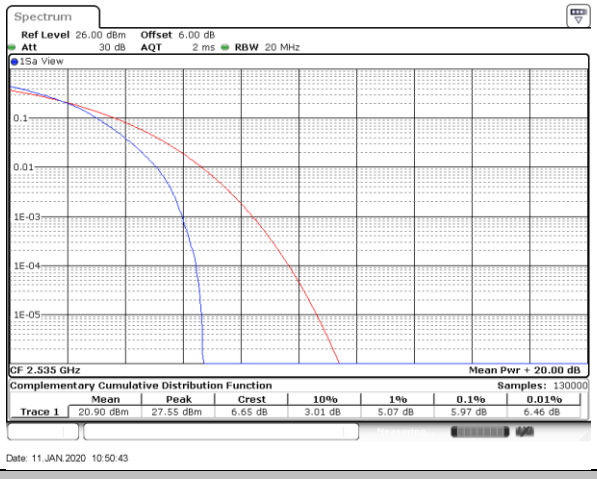
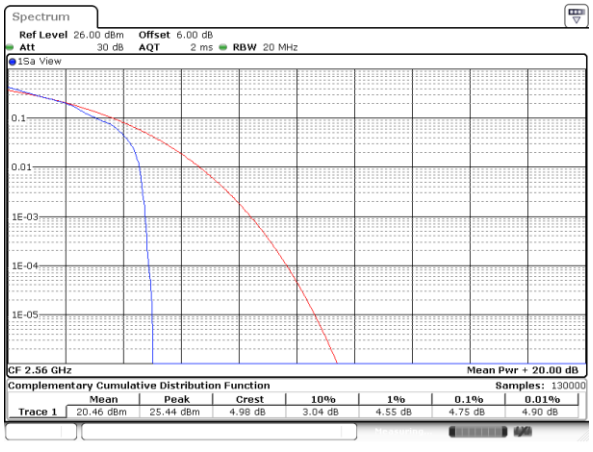
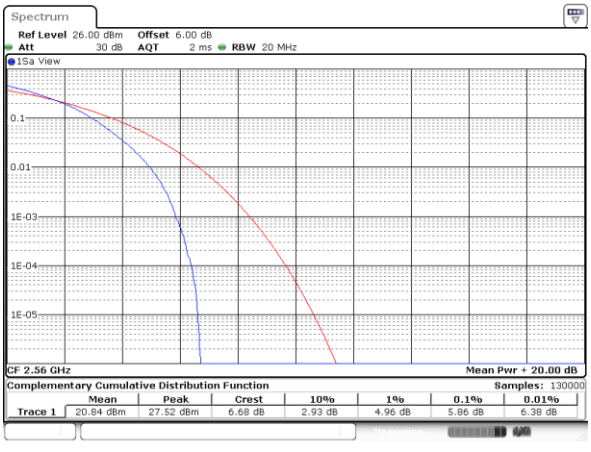
Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.33	4.35	4.84	5.68	PASS
Middle CH	3.51	4.64	4.99	5.97	
Highest CH	3.45	4.58	5.07	5.91	

Mod.	64QAM		Limit: 13dB
RB Size	1RB	Full RB	Result
Lowest CH	4.90	5.59	PASS
Middle CH	5.07	5.97	
Highest CH	4.75	5.86	

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**
	

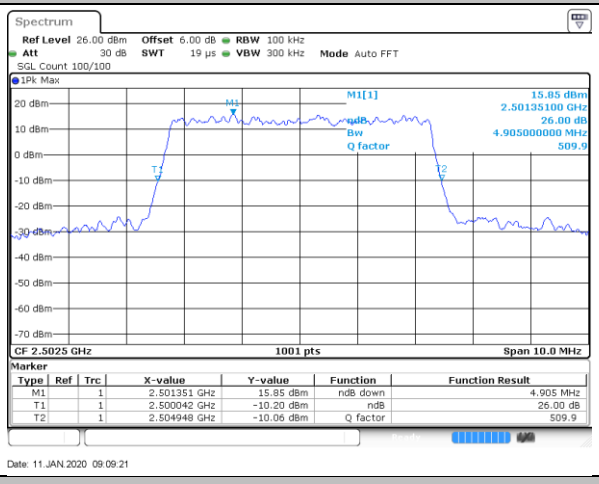
LTE Band 7 / 20MHz / 64QAM	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

26dB Bandwidth

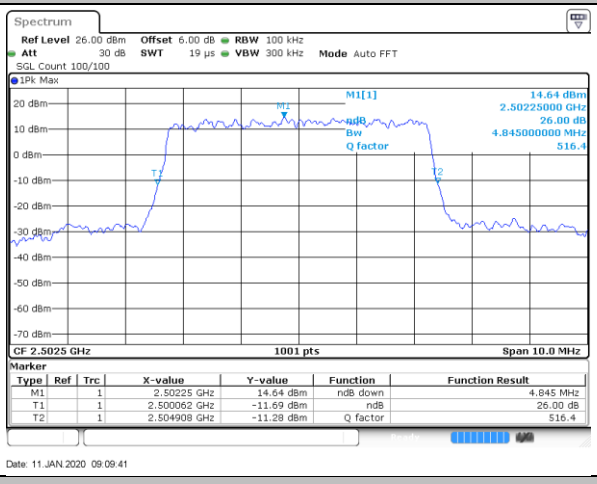
Mode												
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.905	4.845	9.79	9.73	14.476	14.535	20.42	20.14	4.915	9.81	14.446	20.14
Middle CH	4.945	4.875	9.75	9.85	14.505	14.416	20.26	20.26	4.885	9.91	14.476	19.98
Highest CH	4.895	4.785	9.73	9.87	14.356	14.446	20.1	20.14	4.915	9.69	14.476	20.14

LTE Band 7

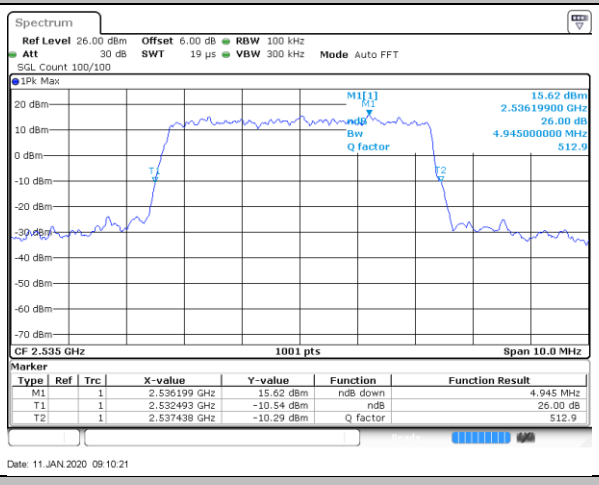
Lowest Channel / 5MHz / QPSK



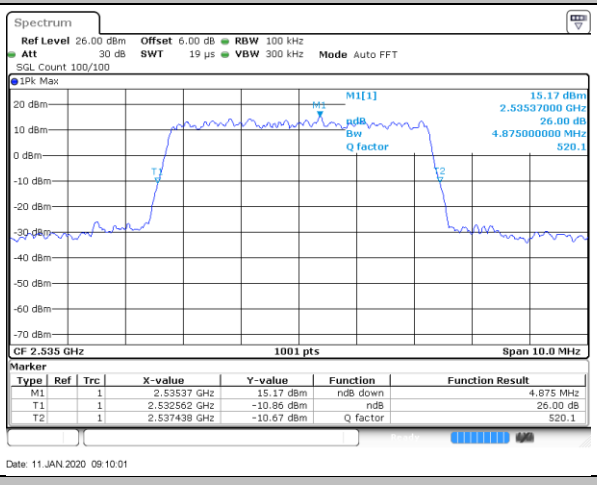
Lowest Channel / 5MHz / 16QAM



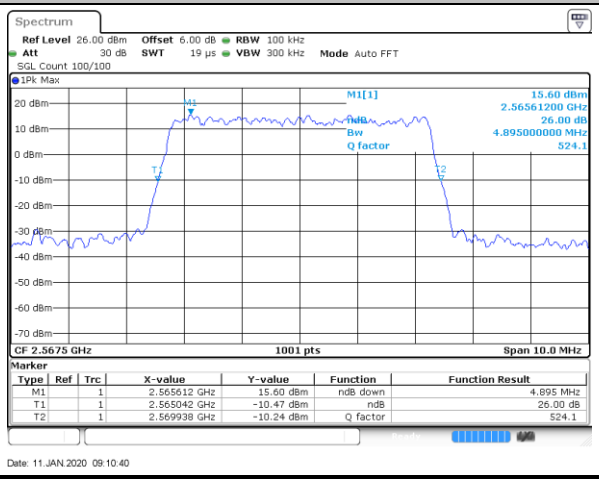
Middle Channel / 5MHz / QPSK



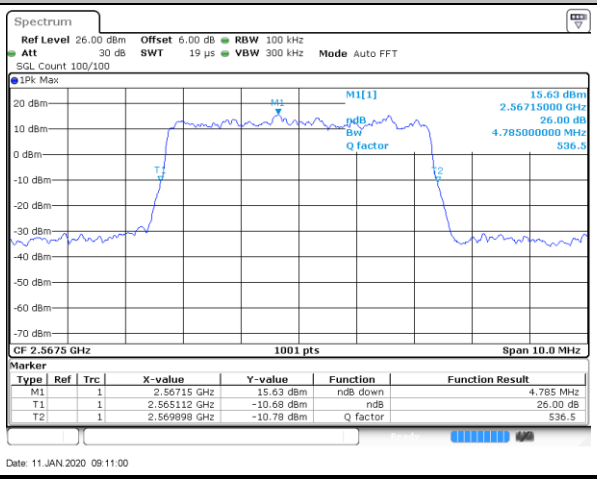
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

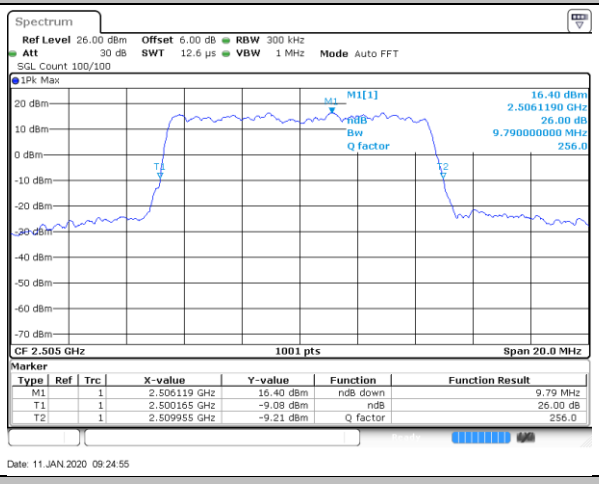


Highest Channel / 5MHz / 16QAM

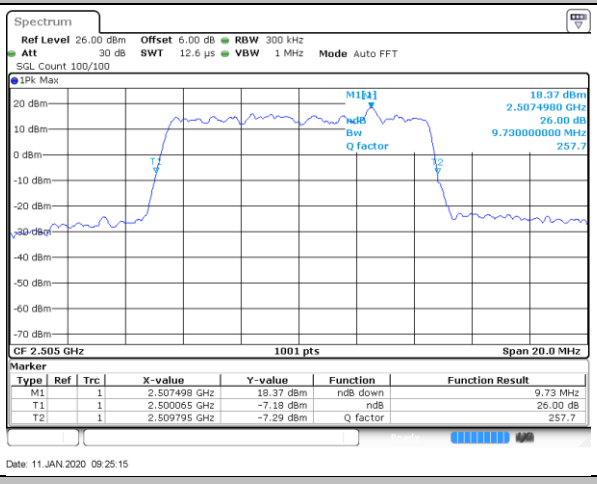


LTE Band 7

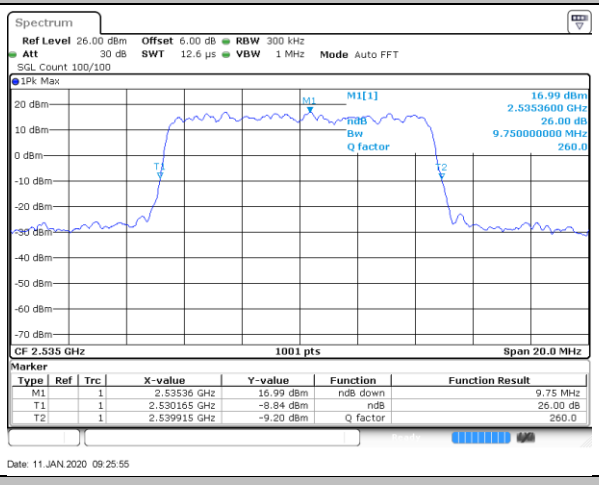
Lowest Channel / 10MHz / QPSK



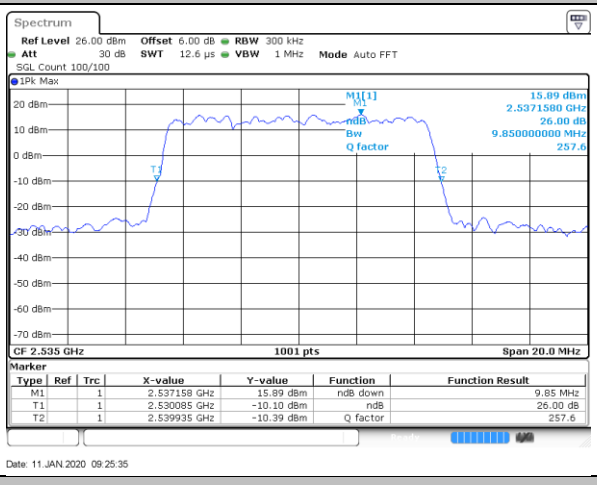
Lowest Channel / 10MHz / 16QAM



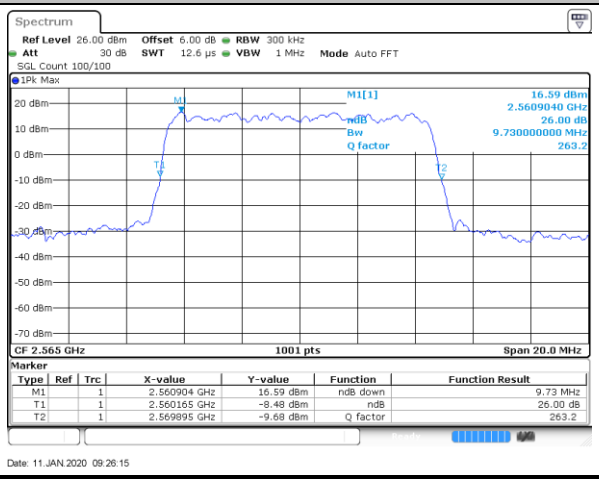
Middle Channel / 10MHz / QPSK



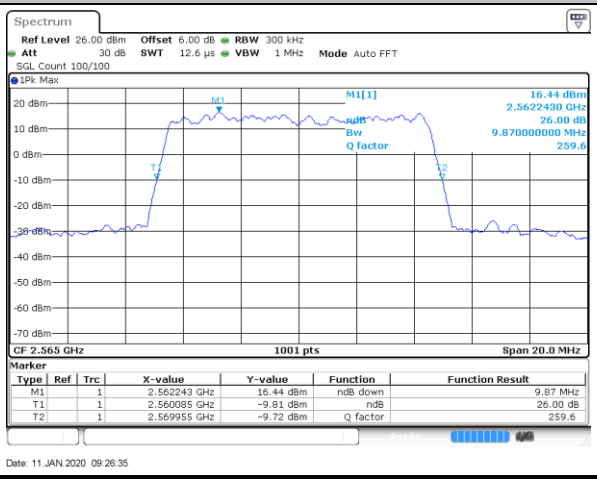
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

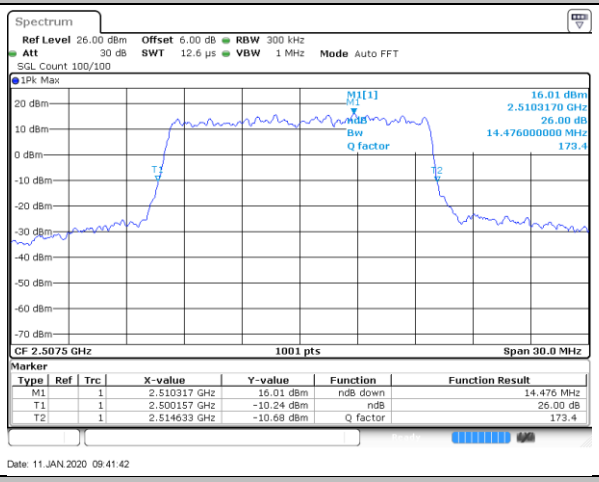


Highest Channel / 10MHz / 16QAM

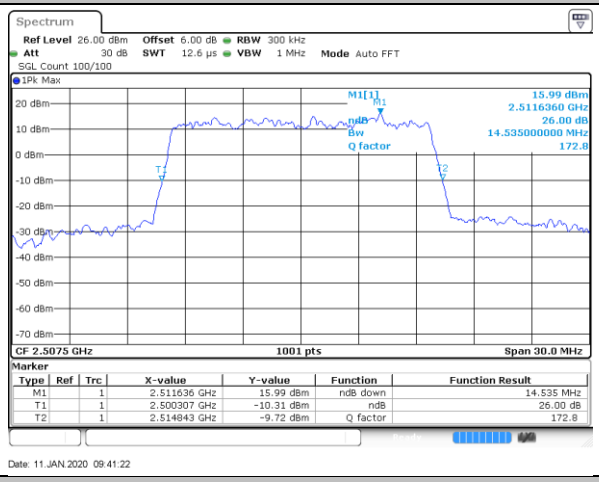


LTE Band 7

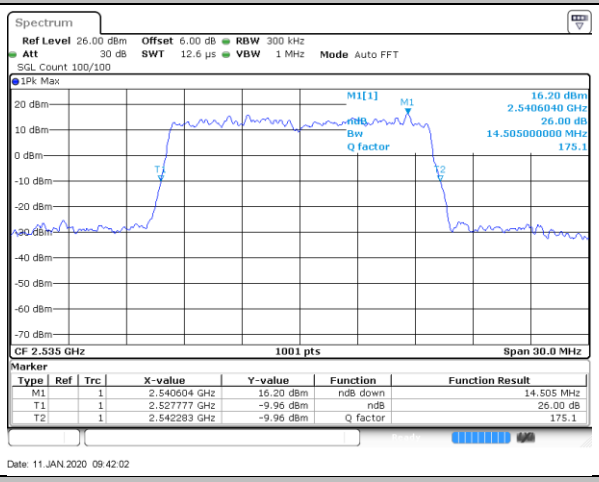
Lowest Channel / 15MHz / QPSK



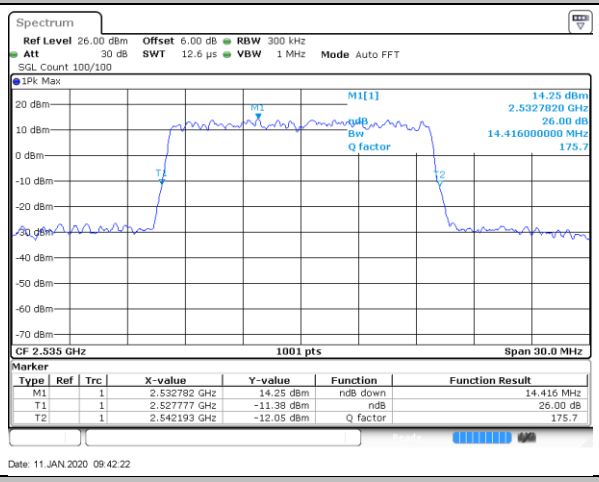
Lowest Channel / 15MHz / 16QAM



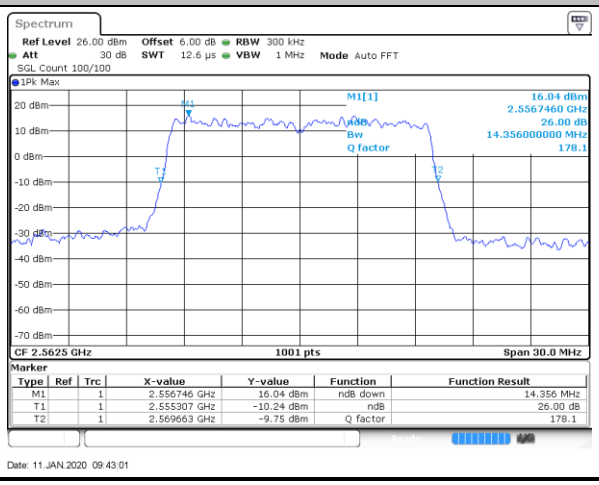
Middle Channel / 15MHz / QPSK



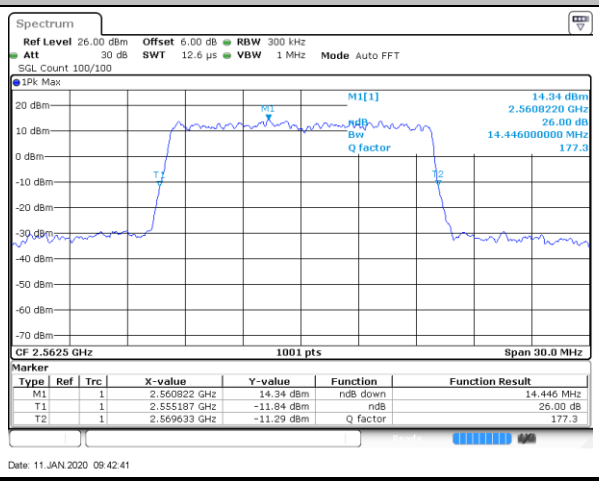
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

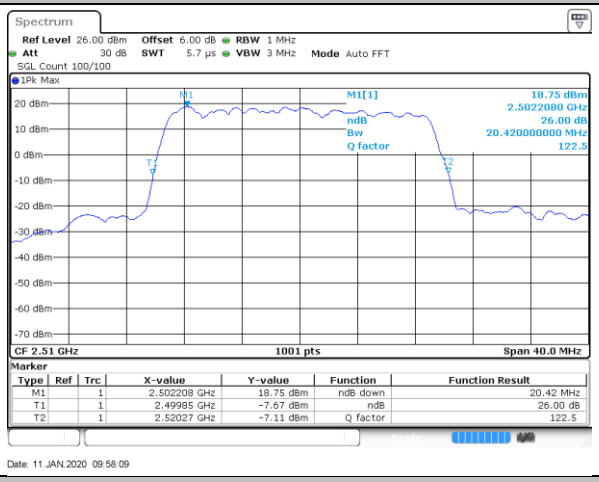


Highest Channel / 15MHz / 16QAM

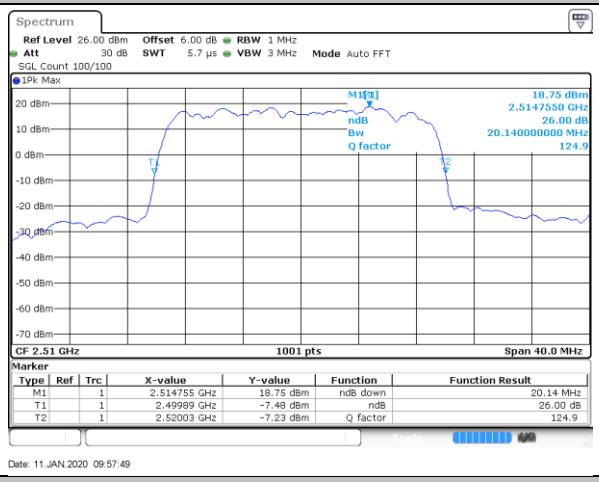


LTE Band 7

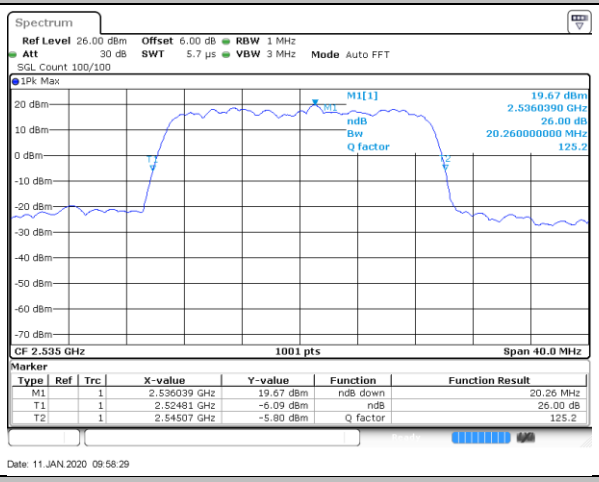
Lowest Channel / 20MHz / QPSK



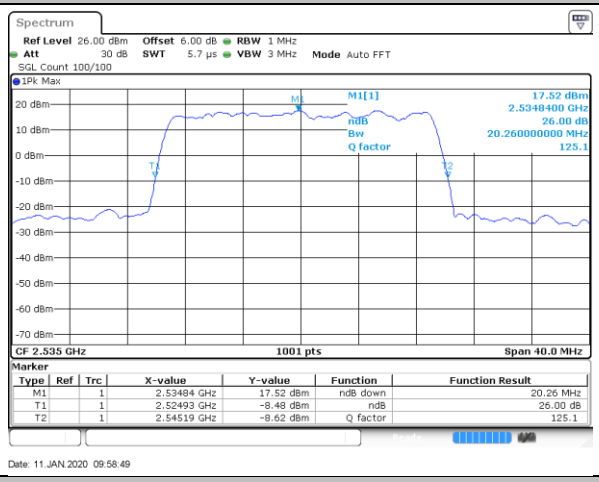
Lowest Channel / 20MHz / 16QAM



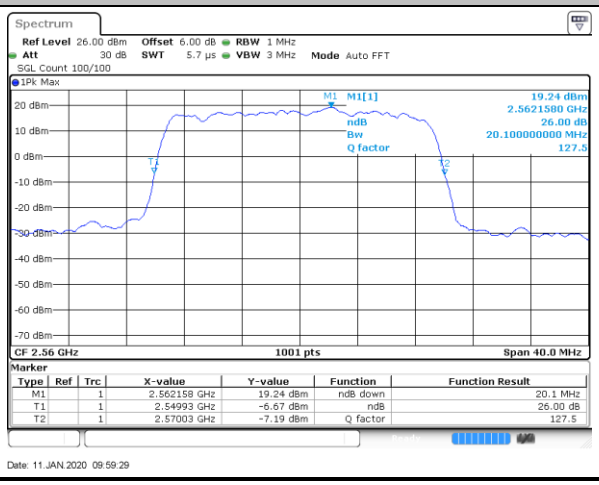
Middle Channel / 20MHz / QPSK



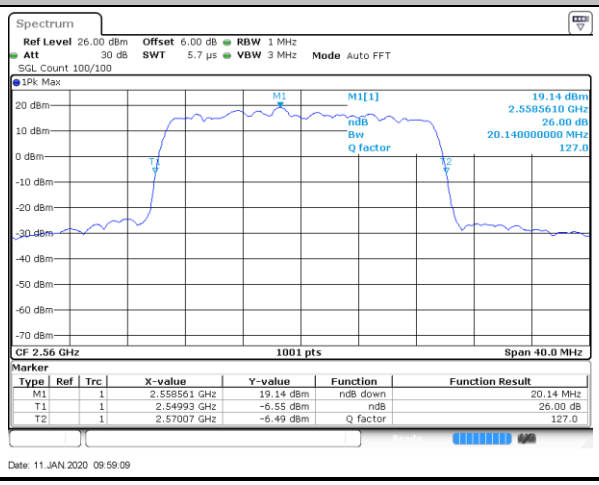
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK

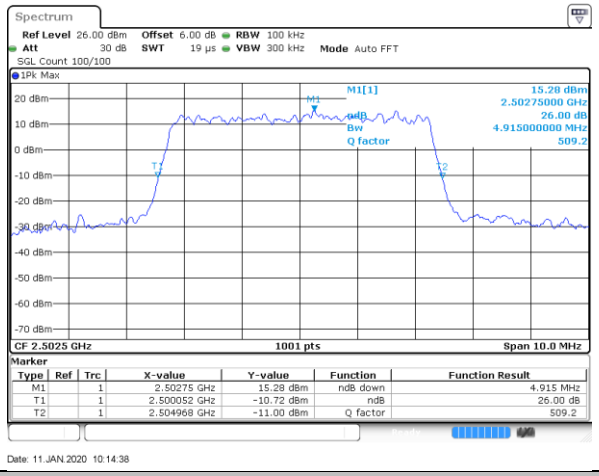


Highest Channel / 20MHz / 16QAM

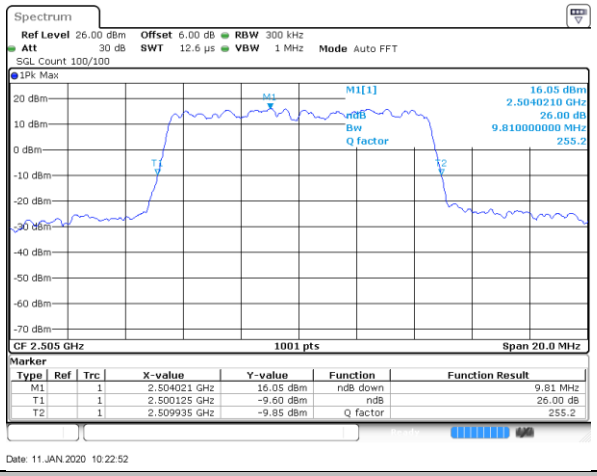


LTE Band 7

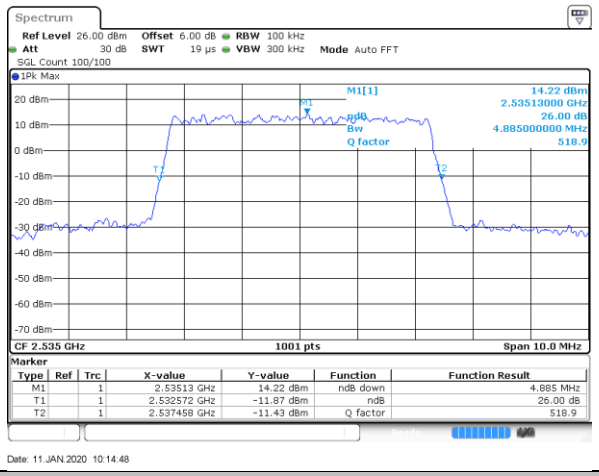
Lowest Channel / 5MHz / 64QAM



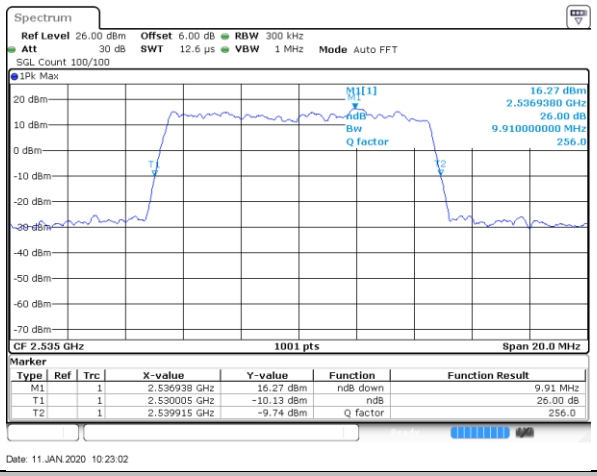
Lowest Channel / 10MHz / 64QAM



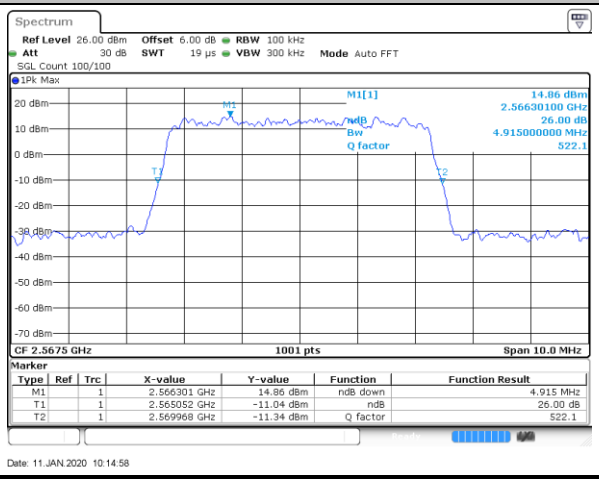
Middle Channel / 5MHz / 64QAM



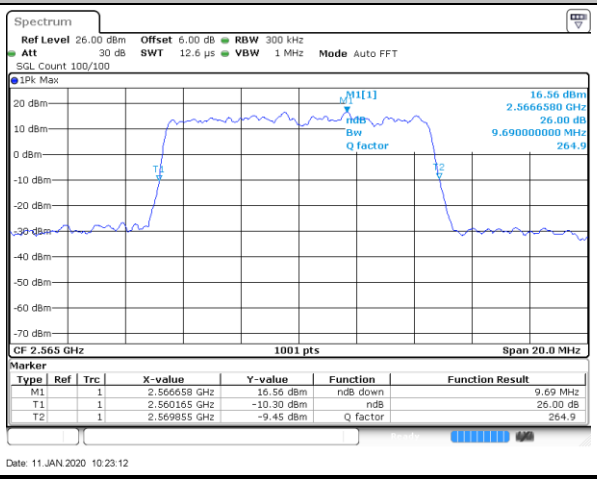
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

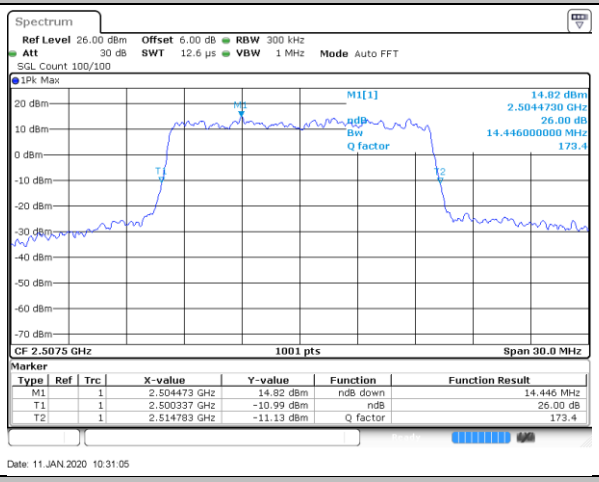


Highest Channel / 10MHz / 64QAM

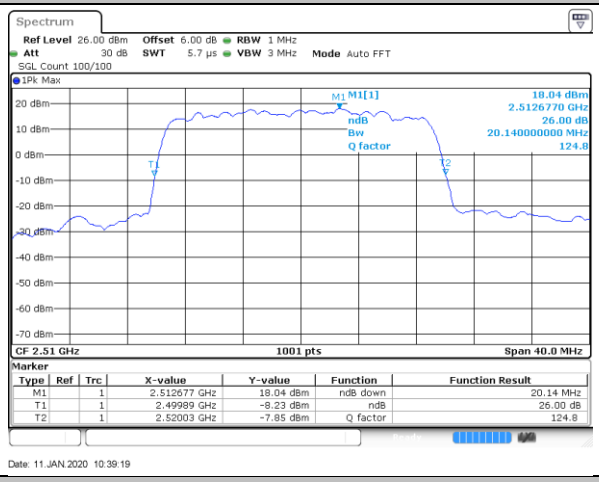


LTE Band 7

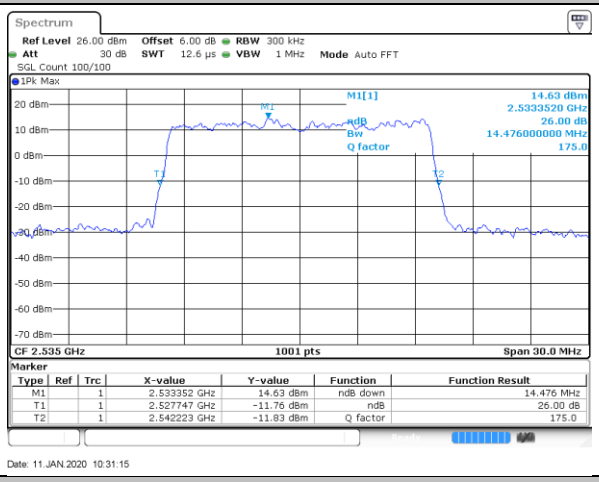
Lowest Channel / 15MHz / 64QAM



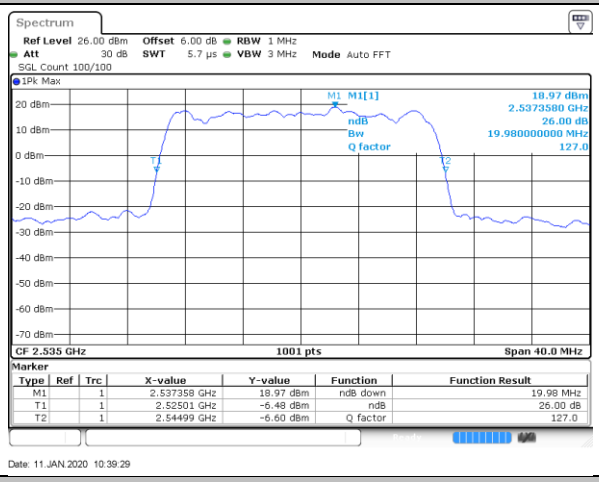
Lowest Channel / 20MHz / 64QAM



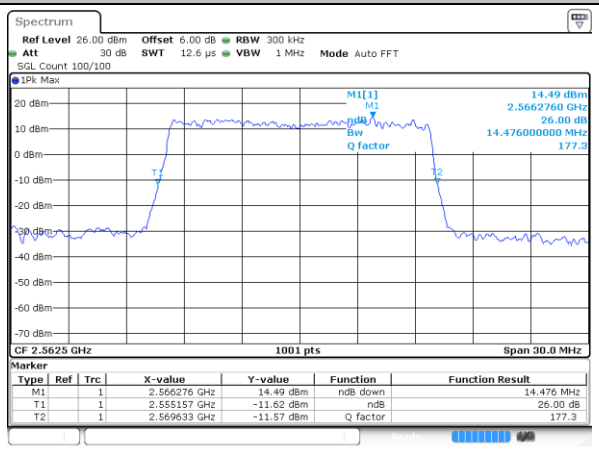
Middle Channel / 15MHz / 64QAM



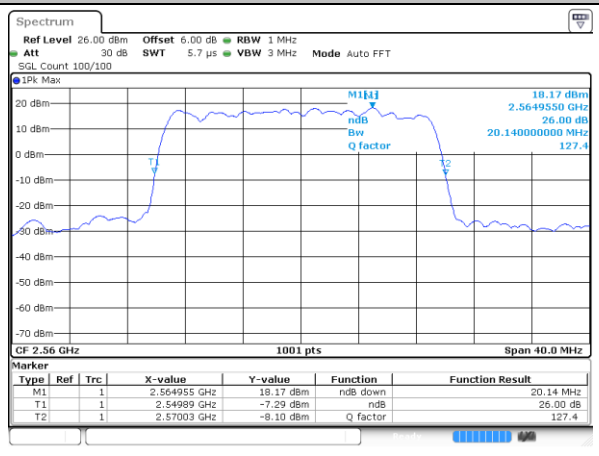
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM

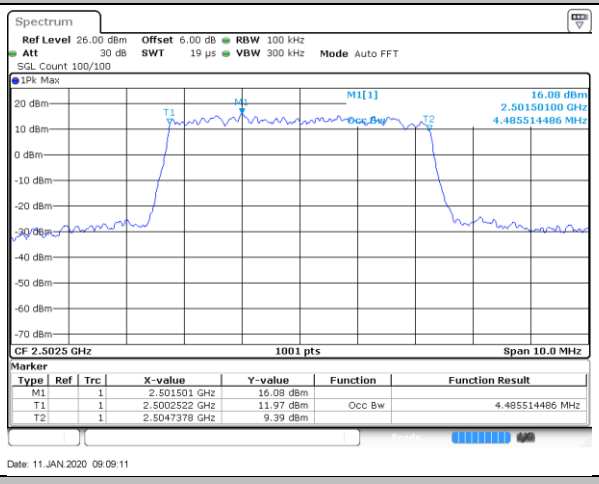


Occupied Bandwidth

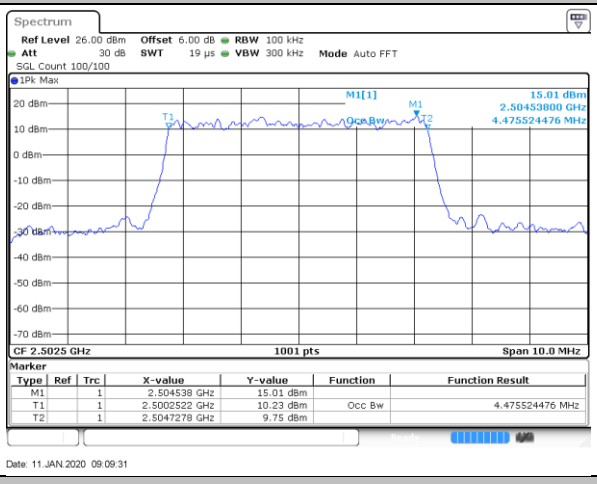
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	4.49	4.48	9.03	9.03	13.49	13.37	18.34	18.14	4.51	9.03	13.49	18.26
Middle CH	4.51	4.49	9.05	9.03	13.43	13.43	18.38	18.34	4.49	8.99	13.40	18.30
Highest CH	4.49	4.50	9.05	9.05	13.46	13.40	18.38	18.38	4.50	9.03	13.37	18.46

LTE Band 7

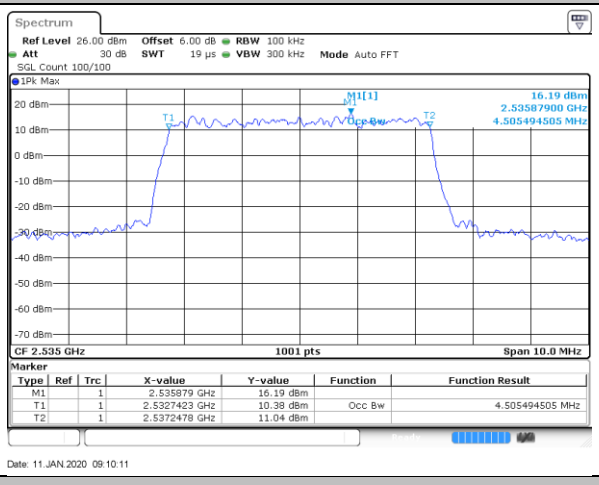
Lowest Channel / 5MHz / QPSK



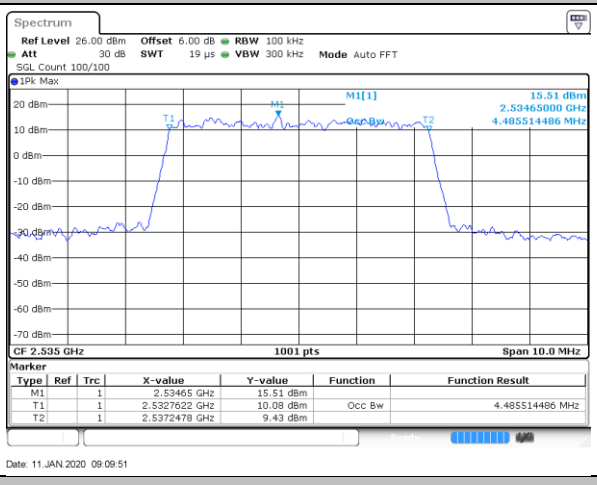
Lowest Channel / 5MHz / 16QAM



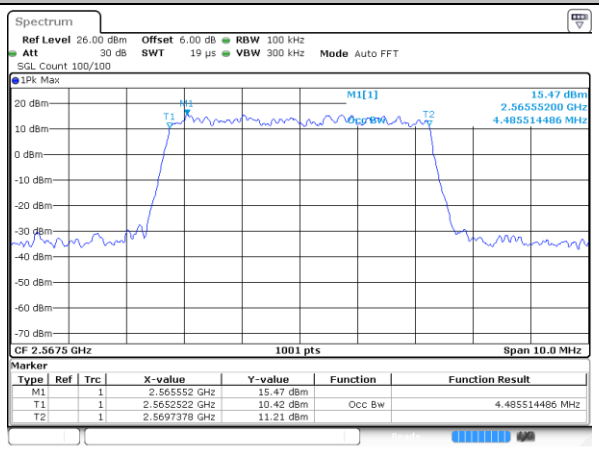
Middle Channel / 5MHz / QPSK



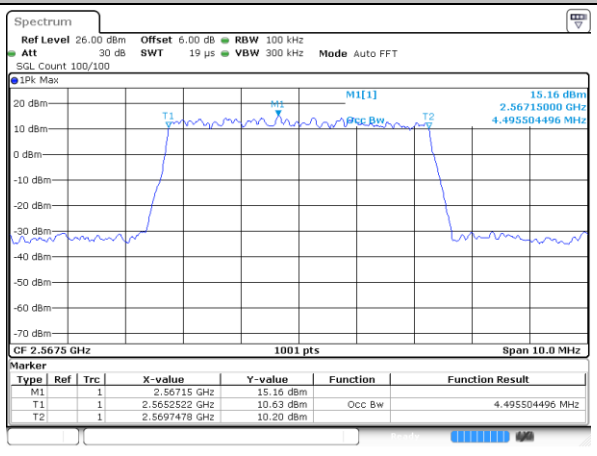
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

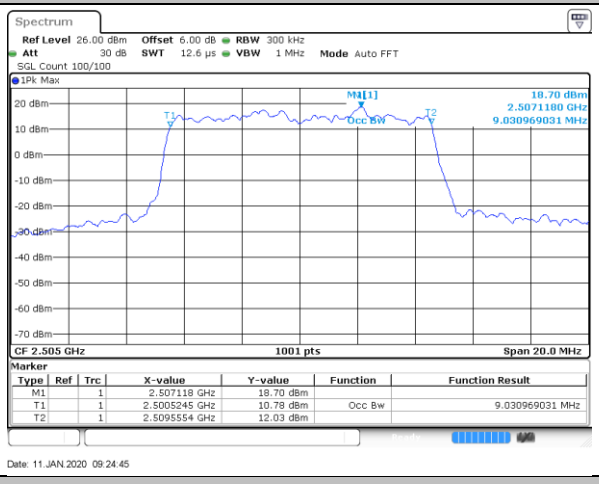


Highest Channel / 5MHz / 16QAM

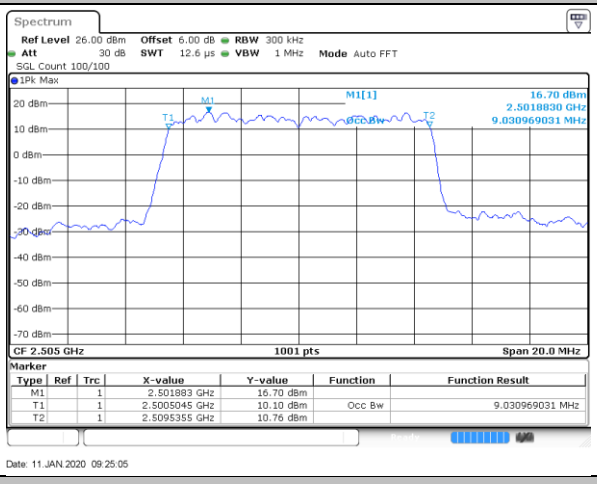


LTE Band 7

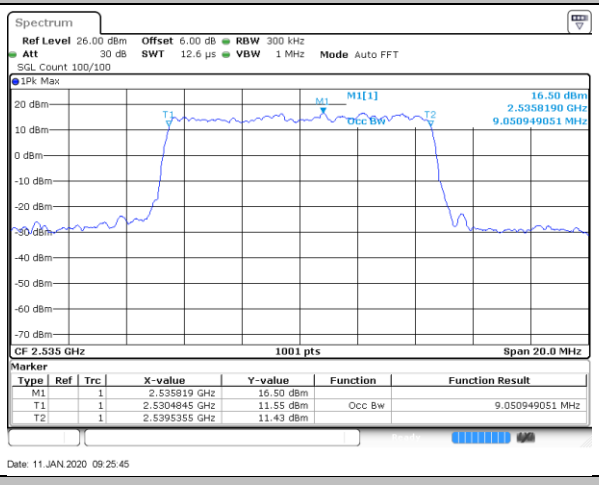
Lowest Channel / 10MHz / QPSK



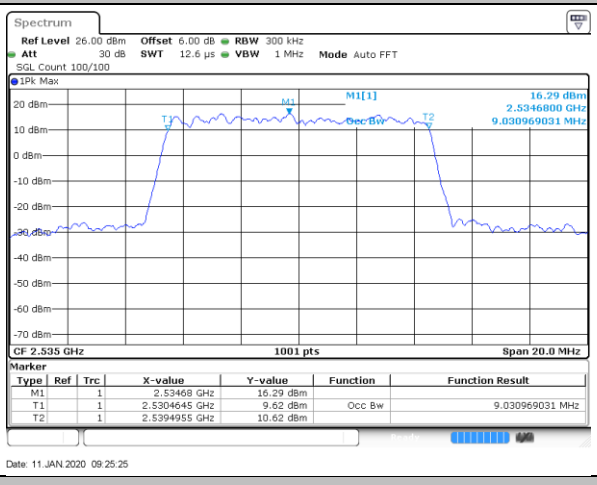
Lowest Channel / 10MHz / 16QAM



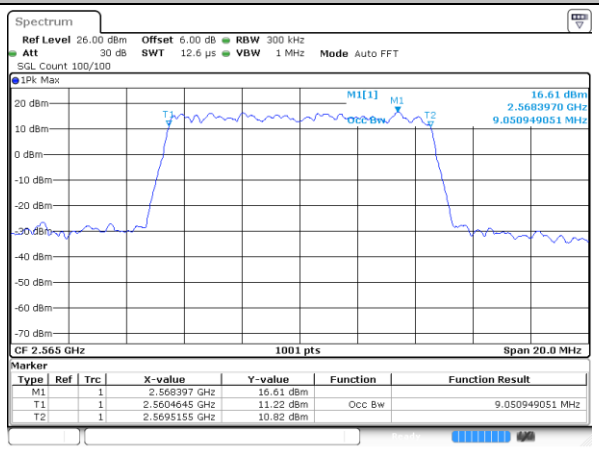
Middle Channel / 10MHz / QPSK



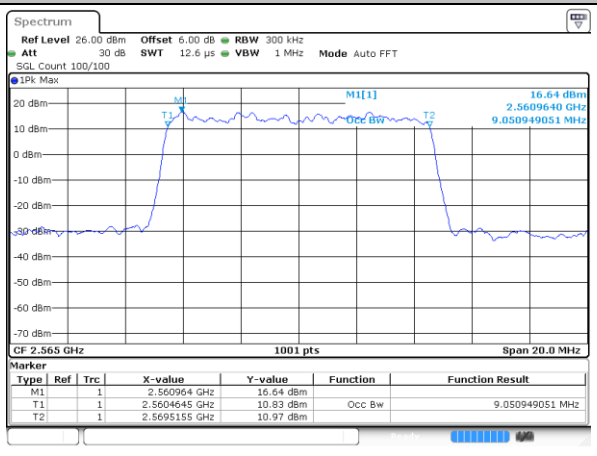
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

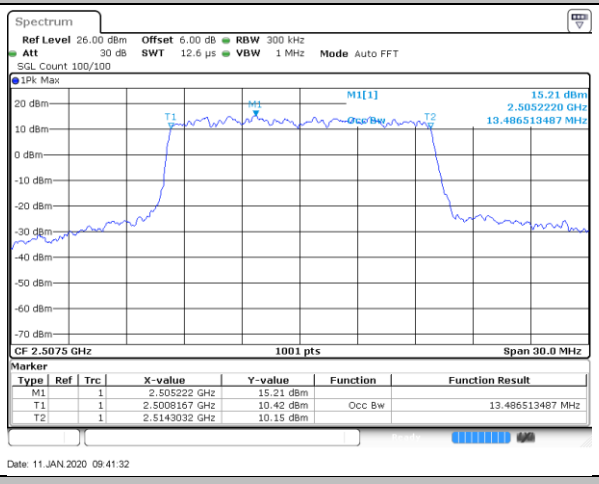


Highest Channel / 10MHz / 16QAM

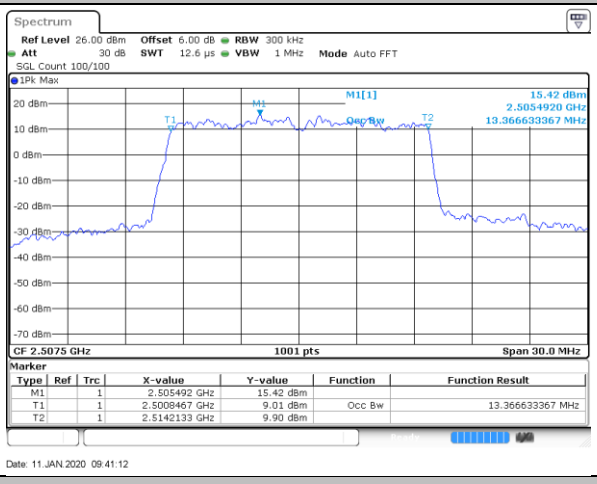


LTE Band 7

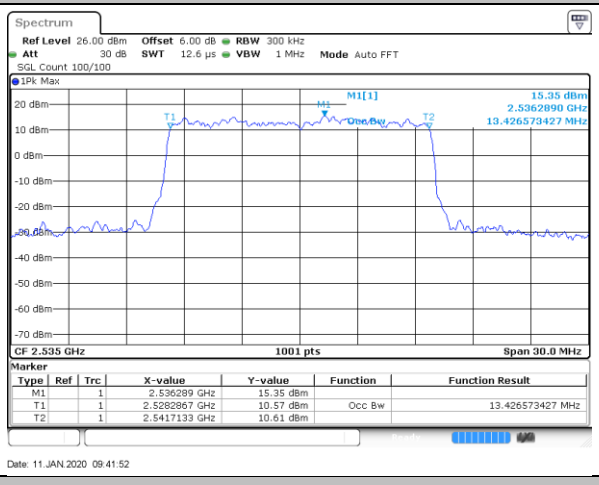
Lowest Channel / 15MHz / QPSK



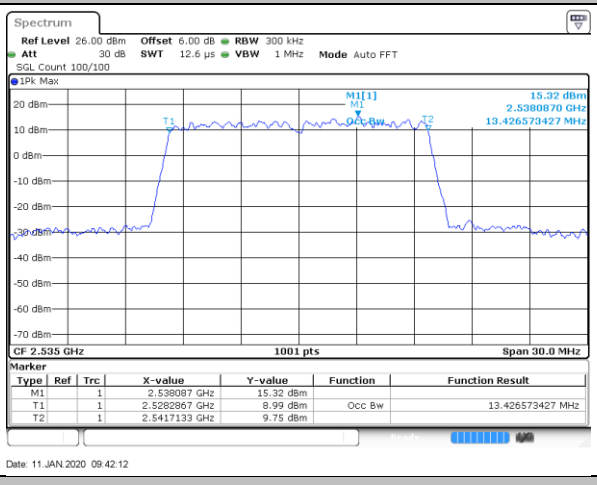
Lowest Channel / 15MHz / 16QAM



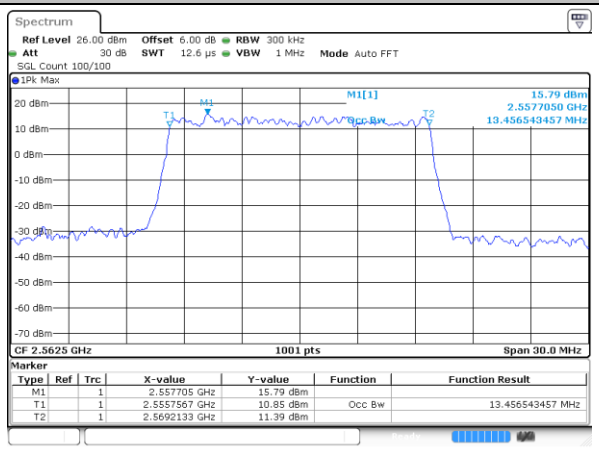
Middle Channel / 15MHz / QPSK



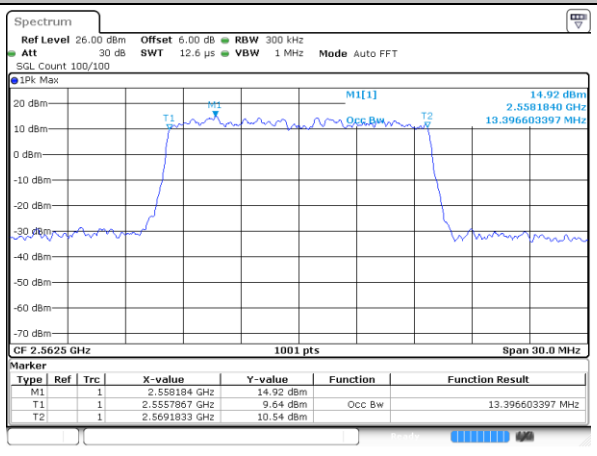
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

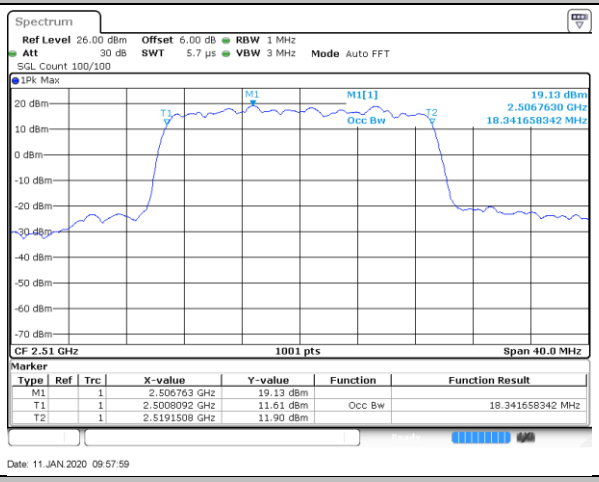


Highest Channel / 15MHz / 16QAM

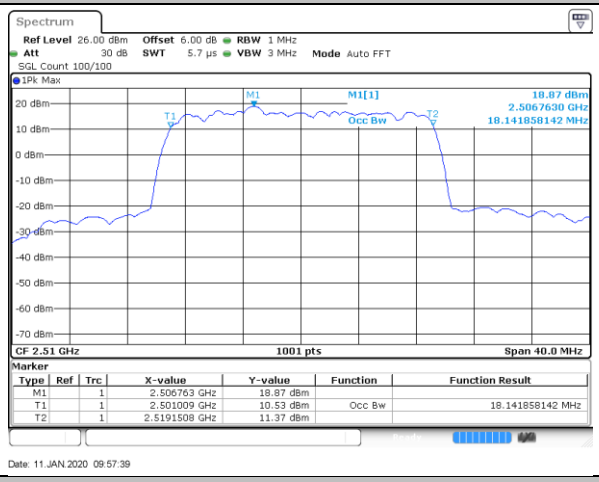


LTE Band 7

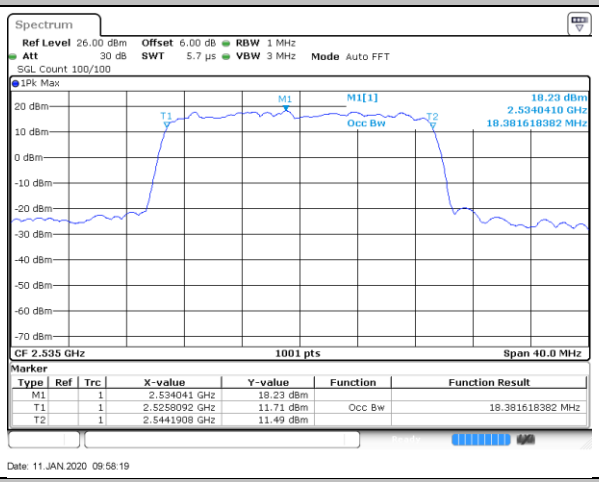
Lowest Channel / 20MHz / QPSK



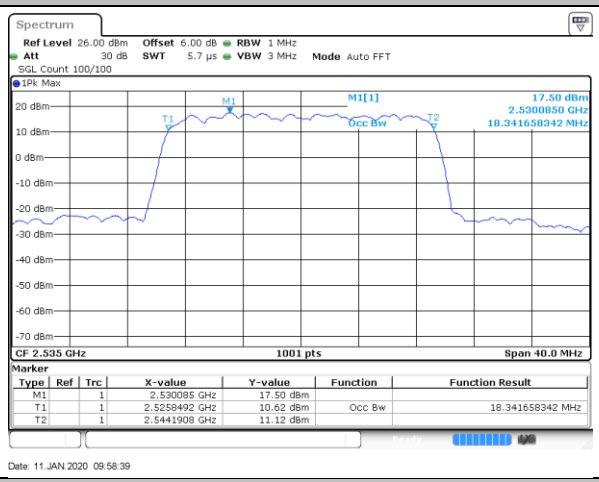
Lowest Channel / 20MHz / 16QAM



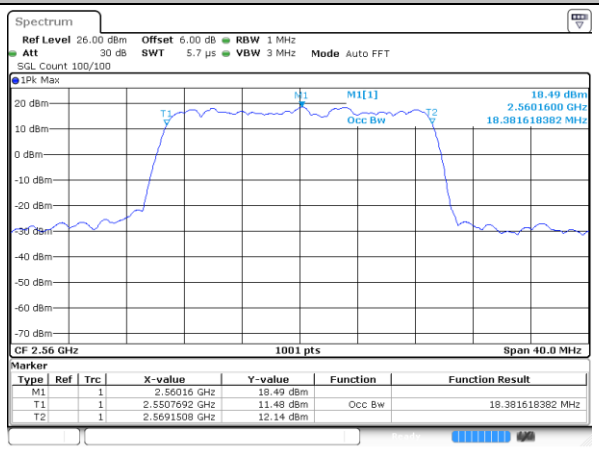
Middle Channel / 20MHz / QPSK



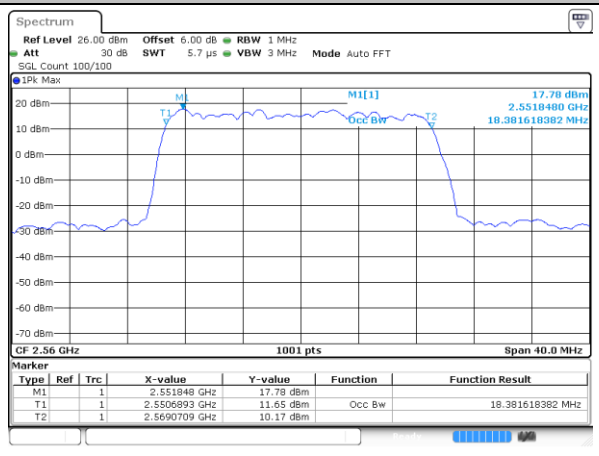
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK

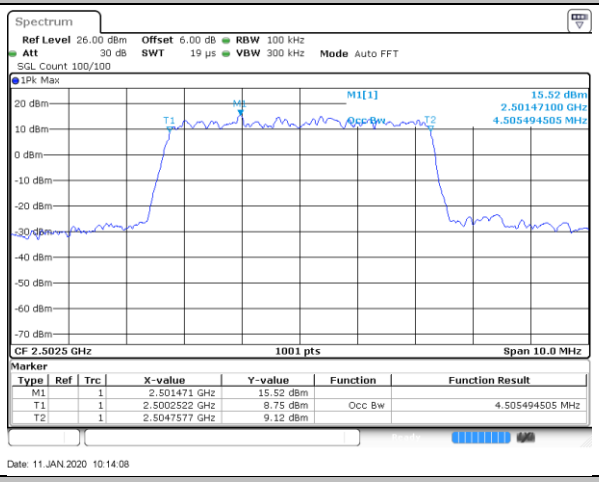


Highest Channel / 20MHz / 16QAM

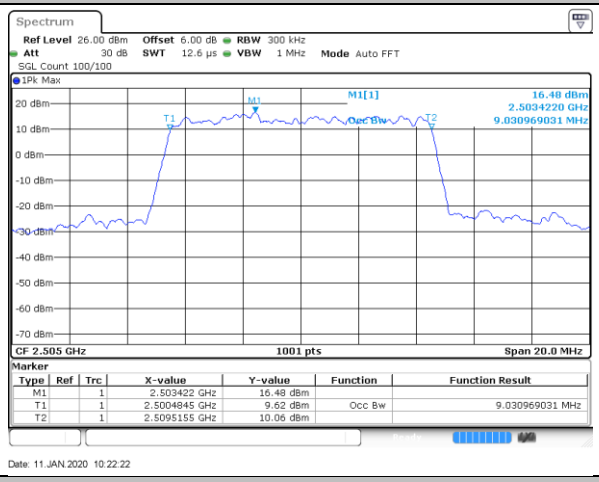


LTE Band 7

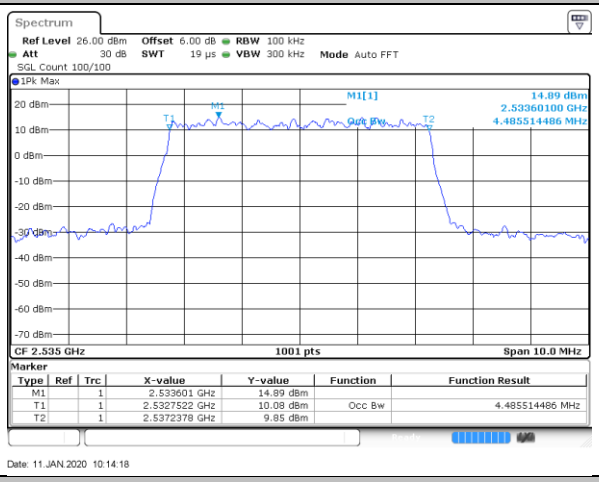
Lowest Channel / 5MHz / 64QAM



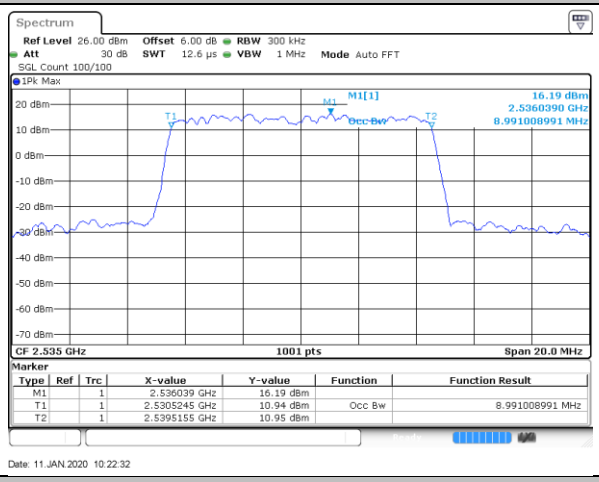
Lowest Channel / 10MHz / 64QAM



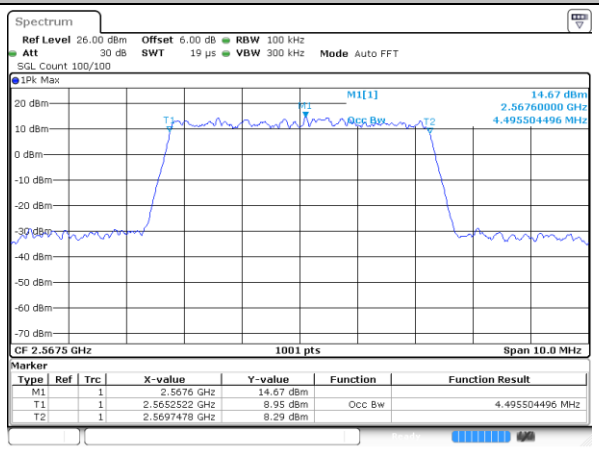
Middle Channel / 5MHz / 64QAM



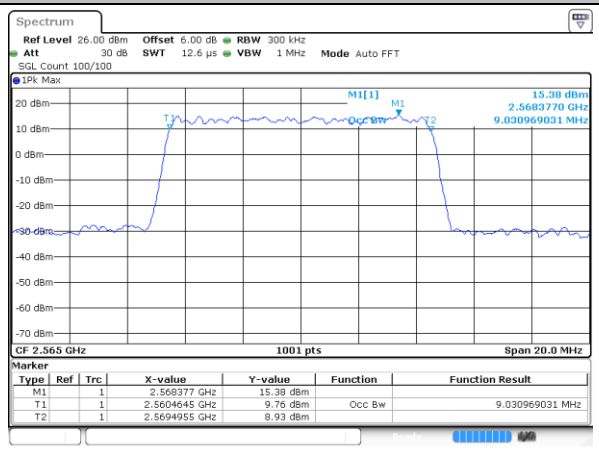
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

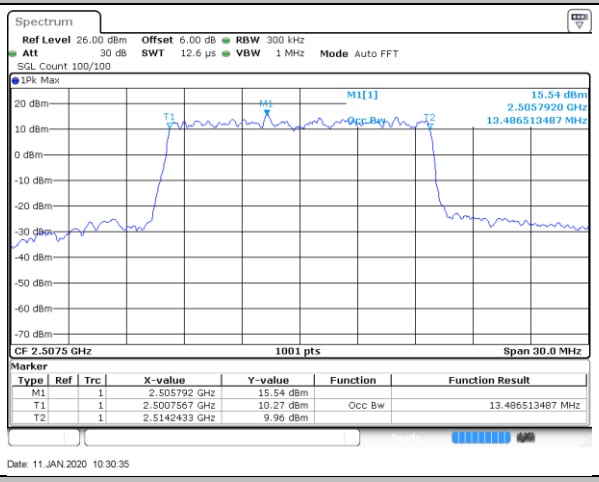


Highest Channel / 10MHz / 64QAM

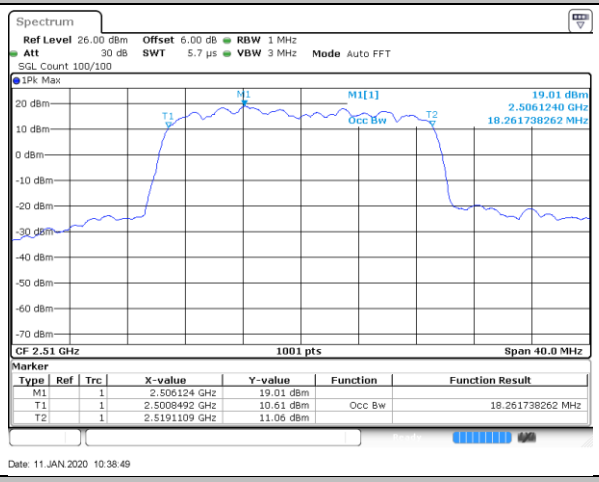


LTE Band 7

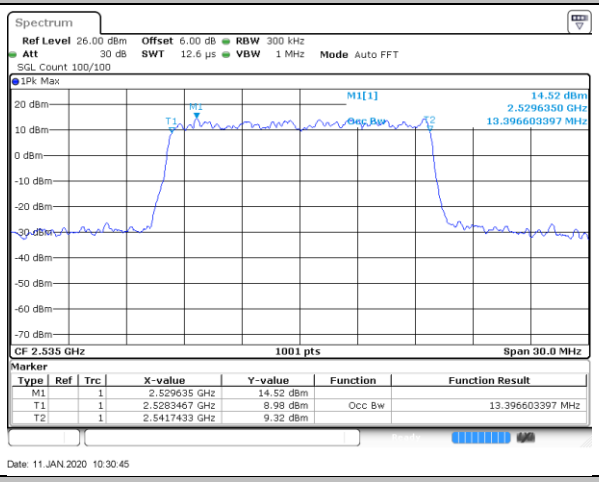
Lowest Channel / 15MHz / 64QAM



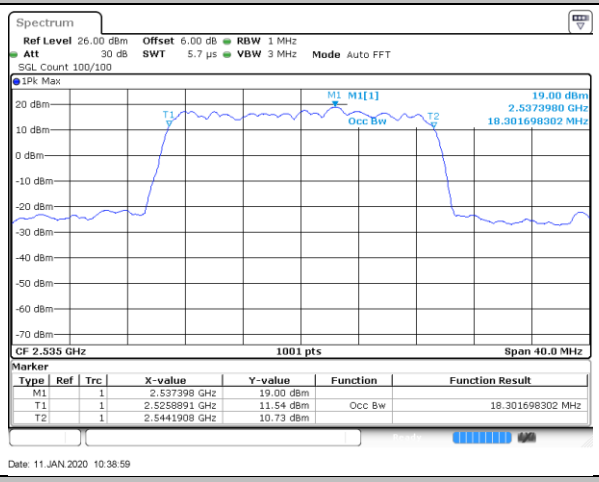
Lowest Channel / 20MHz / 64QAM



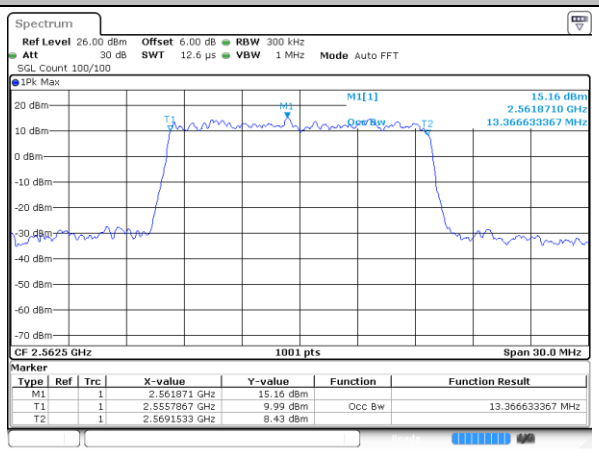
Middle Channel / 15MHz / 64QAM



Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM