FCC RF Test Report

APPLICANT	**: Xiaomi Communications Co., Ltd.**
EQUIPMENT	**: Mobile Phone**
BRAND NAME	**: MI**
MODEL NAME	**: M1902F1G**
FCC ID	**: 2AFZZ-XMSF1G**
STANDARD	**: 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M), 27(H)**
CLASSIFICATION	**: PCS Licensed Transmitter Held to Ear (PCE)**

The product was received on Nov. 23, 2018 and completely tested on Jan. 07, 2019. 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.

James Huang

NVLAP TESTING
NVLAP LAB CODE 600155-0

Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.
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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG8N2303B	Rev. 01	Initial issue of report	Jan. 17, 2019

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)	ERP < 7 Watt	PASS	-
	§27.50(c)(10)	Effective Radiated Power (Band 12) (Band 17)	ERP < 3 Watt	PASS	-
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 7) (Band 38)	EIRP < 2Watt	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4)	EIRP < 1Watt	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 17)	< 43+10log10(P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38)	§27.53(m)(4)		
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 17)	< 43+10log10(P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 38)	< 55+10log$_{10}$(P[Watts])		
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 17)	< 43+10log$_{10}$(P[Watts])	PASS	Under limit 19.84 dB at 7596.00 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38)	< 55+10log$_{10}$(P[Watts])		

1 General Description

1.1 Applicant

Xiaomi Communications Co., Ltd.
The Rainbow City of China Resources, NO.68, Qinghe Middle Street, Haidian District, Beijing, China

1.2 Manufacturer

Xiaomi Communications Co., Ltd.
The Rainbow City of China Resources, NO.68, Qinghe Middle Street, Haidian District, Beijing, China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	MI
Model Name	M1902F1G
FCC ID	2AFZZ-XMSF1G
EUT supports Radios application	CDMA/EV-DO/GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/HSPA+/LTE/NFC/WPC WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
IMEI Code	Conducted: 869890040014718/869890040014726 Radiation: 869890040014155/869890040014163 for LTE Band 2/4/5/7/12 869890040013595/869890040013603 for LTE Band 38 869890040047858/869890040047866 for LTE Band 7CA/38CA
HW Version	P2
SW Version	MIUI 10
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 17 : 706.5 MHz ~ 713.5 MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz
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 17 : 736.5 MHz ~ 743.5 MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz
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 17 : 5MHz / 10MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 2 : 23.77 dBm LTE Band 4 : 23.75 dBm LTE Band 5 : 23.32 dBm LTE Band 7 : 23.72 dBm LTE Band 12 : 23.20 dBm LTE Band 17 : 23.13 dBm LTE Band 38 : 23.81 dBm
Antenna Gain	**Top Antenna:** LTE Band 2 : -6.00 dBi LTE Band 4 : -6.11 dBi LTE Band 5 : -5.84 dBi LTE Band 7 : -4.85 dBi LTE Band 12 : -6.10 dBi LTE Band 17 : -6.10 dBi LTE Band 38 : -5.17 dBi **Bottom Antenna:** LTE Band 2 : -0.87 dBi LTE Band 4 : -0.72 dBi LTE Band 5 : -4.97 dBi LTE Band 7 : -1.23 dBi LTE Band 12 : -6.35 dBi LTE Band 17 : -6.35 dBi LTE Band 38 : -1.49 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM (Downlink Only)

Note:

1. The top Antenna can't tramsmit with bottom Antenna simultaneously.
2. The Maximum ERP/EIRP is calculated from Max Output power and Max antenna gain.

1.5 Modification of EUT

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

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

LTE Band 2		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1850.7 ~ 1909.3	1M09G7D	-	0.1774	1M09W7D	-	0.1483
3	1851.5 ~ 1908.5	2M72G7D	-	0.1923	2M73W7D	-	0.1637
5	1852.5 ~ 1907.5	4M50G7D	-	0.1905	4M51W7D	-	0.1633
10	1855.0 ~ 1905.0	9M07G7D	0.0029	0.1910	9M05W7D	-	0.1637
15	1857.5 ~ 1902.5	13M5G7D	-	0.1941	13M5W7D	-	0.1652
20	1860.0 ~ 1900.0	18M5G7D	-	0.1950	18M5W7D	-	0.1626

LTE Band 2		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1850.7 ~ 1909.3	1M09W7D	-	0.1175
3	1851.5 ~ 1908.5	2M73W7D	-	0.1294
5	1852.5 ~ 1907.5	4M50W7D	-	0.1288
10	1855.0 ~ 1905.0	9M05W7D	-	0.1294
15	1857.5 ~ 1902.5	13M5W7D	-	0.1309
20	1860.0 ~ 1900.0	18M5W7D	-	0.1285

LTE Band 4		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1710.7 ~ 1754.3	1M10G7D	-	0.1866	1M09W7D	-	0.1581
3	1711.5 ~ 1753.5	2M81G7D	-	0.1986	2M73W7D	-	0.1718
5	1712.5 ~ 1752.5	4M51G7D	-	0.1972	4M52W7D	-	0.1679
10	1715.0 ~ 1750.0	9M17G7D	0.0031	0.1968	9M03W7D	-	0.1663
15	1717.5 ~ 1747.5	13M5G7D	-	0.2000	13M5W7D	-	0.1726
20	1720.0 ~ 1745.0	18M5G7D	-	0.2009	18M4W7D	-	0.1718

LTE Band 4		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1710.7 ~ 1754.3	1M09W7D	-	0.1227
3	1711.5 ~ 1753.5	2M73W7D	-	0.1340
5	1712.5 ~ 1752.5	4M50W7D	-	0.1318
10	1715.0 ~ 1750.0	9M03W7D	-	0.1340
15	1717.5 ~ 1747.5	13M4W7D	-	0.1358
20	1720.0 ~ 1745.0	18M5W7D	-	0.1371

LTE Band 5		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	824.7 ~ 848.3	1M10G7D	-	0.0411	1M10W7D	-	0.0344
3	825.5 ~ 847.5	2M72G7D	-	0.0415	2M73W7D	-	0.0355
5	826.5 ~ 846.5	4M51G7D	-	0.0408	4M50W7D	-	0.0344
10	829.0 ~ 844.0	9M03G7D	0.0085	0.0417	9M07W7D	-	0.0343

LTE Band 5		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	824.7 ~ 848.3	1M09W7D	-	0.0270
3	825.5 ~ 847.5	2M72W7D	-	0.0275
5	826.5 ~ 846.5	4M50W7D	-	0.0271
10	829.0 ~ 844.0	9M03W7D	-	0.0272

LTE Band 7		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2502.5 ~ 2567.5	4M49G7D	-	0.1726	4M50W7D	-	0.1489
10	2505.0 ~ 2565.0	9M03G7D	0.0027	0.1683	9M07W7D	-	0.1466
15	2507.5 ~ 2562.5	13M5G7D	-	0.1770	13M5W7D	-	0.1552
20	2510.0 ~ 2560.0	18M4G7D	-	0.1774	18M4W7D	-	0.1545

LTE Band 7		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2502.5 ~ 2567.5	4M51W7D	-	0.1167
10	2505.0 ~ 2565.0	9M05W7D	-	0.1169
15	2507.5 ~ 2562.5	13M5W7D	-	0.1208
20	2510.0 ~ 2560.0	18M5W7D	-	0.1194

LTE Band 12		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	699.7 ~ 715.3	1M10G7D	-	0.0308	1M09W7D	-	0.0253
3	700.5 ~ 714.5	2M74G7D	-	0.0312	2M73W7D	-	0.0261
5	701.5 ~ 713.5	4M50G7D	-	0.0309	4M50W7D	-	0.0259
10	704.0 ~ 711.0	9M01G7D	0.0090	0.0313	9M05W7D	-	0.0261

LTE Band 12		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	699.7 ~ 715.3	1M09W7D	-	0.0203
3	700.5 ~ 714.5	2M72W7D	-	0.0205
5	701.5 ~ 713.5	4M51W7D	-	0.0202
10	704.0 ~ 711.0	9M05W7D	-	0.0205

Note: LTE Band 12 overlaps the entire frequency range of LTE Band 17. Therefore, the test results provided in this report covers Band 12 as well as Band 17 (5M & 10M Bandwith).

LTE Band 38		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2572.5 ~ 2617.5	4M49G7D	-	0.1614	4M50W7D	-	0.1377
10	2575.0 ~ 2615.0	9M01G7D	0.0025	0.1637	9M07W7D	-	0.1318
15	2577.5 ~ 2612.5	13M6G7D	-	0.1702	13M4W7D	-	0.1368
20	2580.0 ~ 2610.0	18M5G7D	-	0.1706	18M5W7D	-	0.1099

LTE Band 38		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2572.5 ~ 2617.5	4M50W7D	-	0.0998
10	2575.0 ~ 2615.0	9M05W7D	-	0.0991
15	2577.5 ~ 2612.5	13M5W7D	-	0.1026
20	2580.0 ~ 2610.0	18M4W7D	-	0.1033

LTE Band 7 CA	QPSK			16QAM		
BW (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
10MHz+20MHz	28M0G7D	-	0.2104	27M9W7D	-	0.1807
15MHz+15MHz	28M7G7D	-	0.2113	28M7W7D	-	0.1824
15MHz+20MHz	32M9G7D	-	0.2118	32M9W7D	-	0.1871
15MHz+10MHz	23M4G7D	-	0.2009	23M5W7D	-	0.1667
20MHz+10MHz	28M1G7D	-	0.2109	27M9W7D	-	0.1866
20MHz+15MHz	32M9G7D	-	0.2099	32M9W7D	-	0.1778
20MHz+20MHz	37M7G7D	-	0.2109	37M7W7D	-	0.1770

LTE Band 7 CA	64QAM		
BW (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
10MHz+20MHz	28M1W7D	-	0.1153
15MHz+15MHz	28M6W7D	-	0.1191
15MHz+20MHz	32M7W7D	-	0.1186
15MHz+10MHz	23M4W7D	-	0.1312
20MHz+10MHz	28M0W7D	-	0.1183
20MHz+15MHz	32M8W7D	-	0.1132
20MHz+20MHz	37M6W7D	-	0.1589

LTE Band 38 CA	QPSK			16QAM		
BW (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
15MHz+15MHz	28M7G7D	-	0.1762	28M7W7D	-	0.1390
20MHz+20MHz	37M7G7D	-	0.1766	37M7W7D	-	0.1432

LTE Band 38 CA	64QAM		
BW (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
15MHz+15MHz	28M6W7D	-	0.0875
20MHz+20MHz	37M8W7D	-	0.1169

1.7 Testing Location

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

Test Site	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone, Jiangsu Province 215335, China TEL : 86-512-57900158 FAX : 86-512-57900958		
Test Site No.	**Sporton Site No.**	**FCC designation No.**	**FCC Test Firm Registration No.**
	TH01-KS 03CH04-KS	CN5013	630927

1.8 Applicable Standards

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

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

Remark:

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

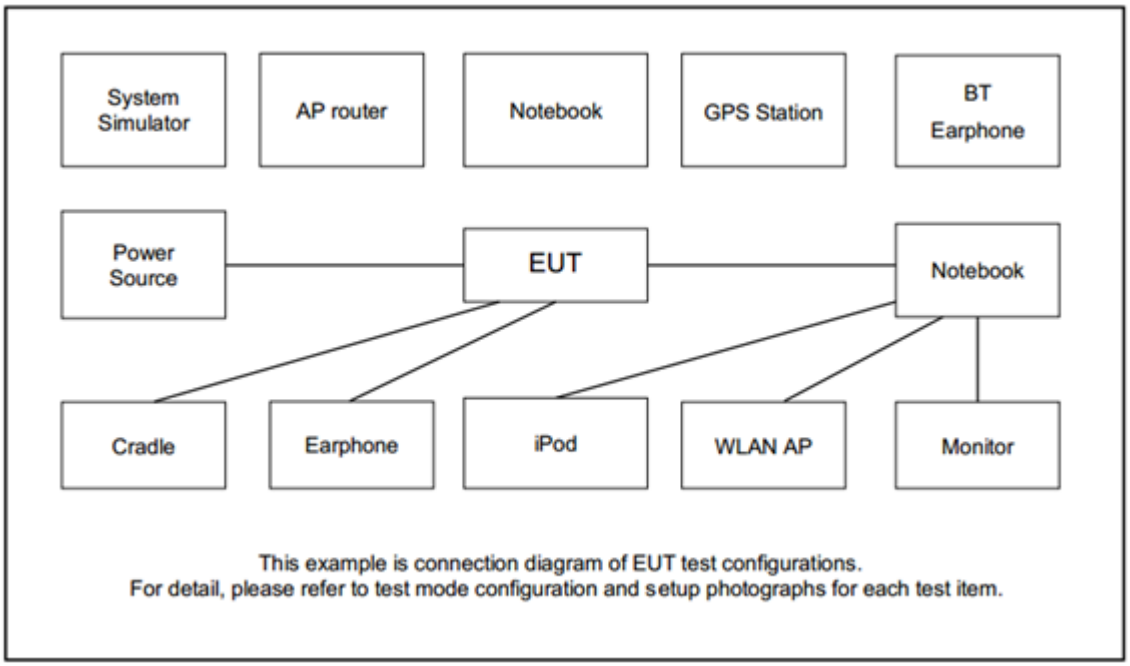
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
	38	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	2						v	v	v	v	v		v	v	v	v
	4						v	v	v	v	v		v	v	v	v
	5				v	-	-	v	v	v	v		v	v	v	v
	7	-	-				v	v	v	v	v		v	v	v	v
	12				v	-	-	v	v	v	v		v	v	v	v
	38	-	-				v	v	v	v	v		v	v	v	v
26dB and 99% Bandwidth	2	v	v	v	v	v	v	v	v	v			v	v	v	v
	4	v	v	v	v	v	v	v	v	v			v	v	v	v
	5	v	v	v	v	-	-	v	v	v			v	v	v	v
	7	-	-	v	v	v	v	v	v	v			v	v	v	v
	12	v	v	v	v	-	-	v	v	v			v	v	v	v
	38	-	-	v	v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	2	v	v	v	v	v	v	v	v	v	v		v	v		v
	4	v	v	v	v	v	v	v	v	v	v		v	v		v
	5	v	v	v	v	-	-	v	v	v	v		v	v		v
	7	-	-	v	v	v	v	v	v	v	v		v	v		v
	12	v	v	v	v	-	-	v	v	v	v		v	v		v
	38	-	-	v	v	v	v	v	v	v	v		v	v		v

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Conducted Spurious Emission	2	v	v	v	v	v	v	v	v	v	v			v	v	v
	4	v	v	v	v	v	v	v	v	v	v			v	v	v
	5	v	v	v	v	-	-	v	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	12	v	v	v	v	-	-	v	v	v	v			v	v	v
	38	-	-	v	v	v	v	v	v	v	v			v	v	v
Frequency Stability	2				v			v					v		v	
	4				v			v					v		v	
	5				v	-	-	v					v		v	
	7	-	-		v			v					v		v	
	12				v	-	-	v					v		v	
	38	-	-		v			v					v		v	
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	v	v			v	v	v
	4	v	v	v	v	v	v	v	v	v	v			v	v	v
	5	v	v	v	v	-	-	v	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	12	v	v	v	v	-	-	v	v	v	v			v	v	v
	38	-	-	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	2	Worst Case													v	
	4	Worst Case													v	
	5	Worst Case													v	
	7	Worst Case													v	
	12	Worst Case													v	
	38	Worst Case													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 12 overlaps the entire frequency range of LTE Band 17. Therefore, the test results provided in this report covers Band 12 as well as Band 17(5M & 10M BW).															

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	7_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v	v	v	v	v	v
	38_CA	v	-	-	-	-	-	-	v	-	-	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	7_CA	v	v	v	v	v	-	-	v	v	-	v	v	v			v	v	v	v
	38_CA	v	-	-	-	-	-	-	v	-	-	v	v	v			v	v	v	v
Conducted Band Edge	7_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v		v	v		v
	38_CA	v	-	-	-	-	-	-	v	-	-	v	v	v	v		v	v		v
Conducted Spurious Emission	7_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v			v	v	v
	38_CA	v	-	-	-	-	-	-	v	-	-	v	v	v	v			v	v	v
E.I.R.P.	7_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v			v	v	v
	38_CA	v	-	-	-	-	-	-	v	-	-	v	v	v	v			v	v	v
Radiated Spurious Emission	7_CA	Worst Case																	v	
	38_CA	Worst Case																	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	GW	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	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 between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 5.3 dB.

Example :

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

= 5.3 (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 17 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23780	23790	23800
	Frequency	709	710	711
5	Channel	23755	23790	23825
	Frequency	706.5	710	713.5

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

LTE Band 7 Channel and Frequency List_CA					
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 38 Channel and Frequency List					
BW [MHz]	**Channel/Frequency(MHz)**		**Lowest**	**Middle**	**Highest**
20 + 20	PCC	Channel	37850	37901	37952
		Frequency	2580.0	2585.1	2590.2
	SCC	Channel	38048	38099	38150
		Frequency	2599.8	2604.9	2610.0
15 + 15	PCC	Channel	37825	37925	38025
		Frequency	2577.5	2587.5	2597.5
	SCC	Channel	37975	38075	38175
		Frequency	2592.5	2602.5	2612.5

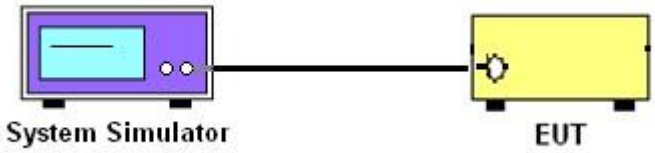
3 Conducted Test Items

3.1 Measuring Instruments

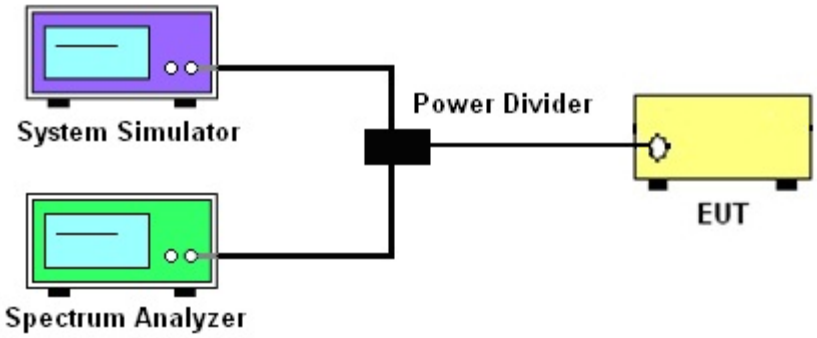
See list of measuring instruments of this test report.

3.2 Test Setup

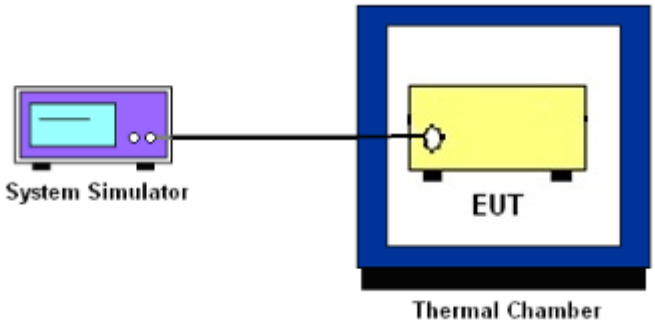
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

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

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

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

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

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

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

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

L_C = signal attenuation in the connecting cable between the transmitter and antenna in dB

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

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

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

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

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

3.6.2 Test Procedures

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

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is 43 + $10\log_{10}$(P[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 (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. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.
   Example:
   The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
   = P(W)- [43 + 10log(P)] (dB)
   = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB) = -13dBm.
9. For LTE Band 7, 38, the other 40 dB, and 55 dB have additionally applied same calculation above.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

For Band 7,38:

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. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
11. For Band 7, 38
    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.

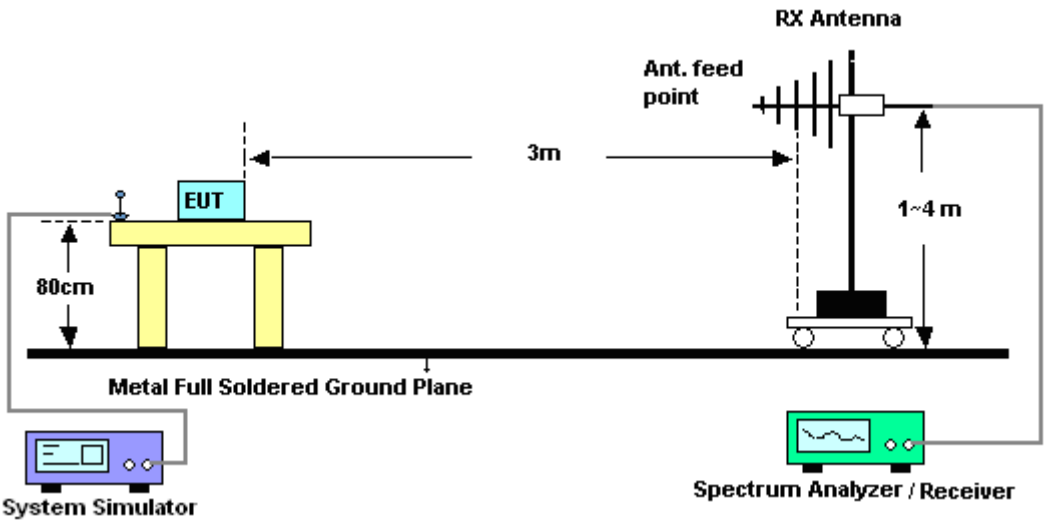
4 Radiated Test Items

4.1 Measuring Instruments

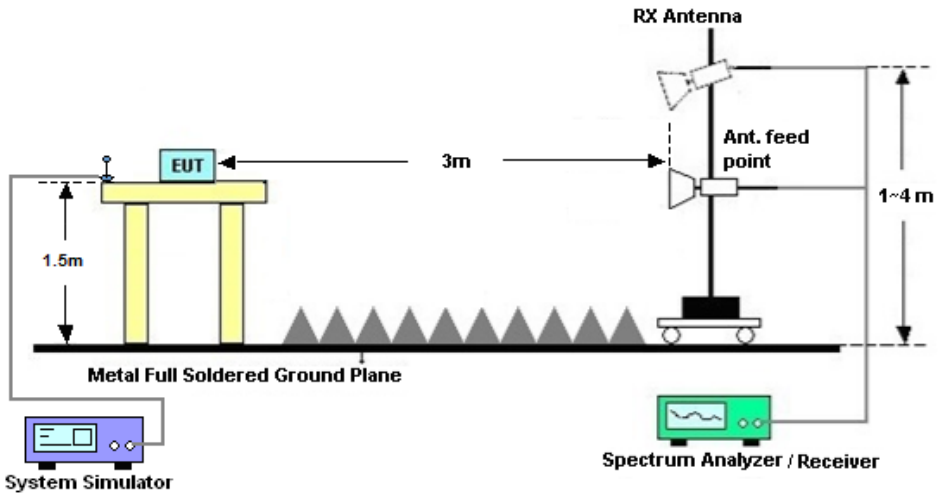
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

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

For Band 7, 38

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

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

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. EIRP (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, 38,:
    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	Aug. 07, 2018	Dec. 04, 2018~ Jan. 04, 2019	Aug. 06, 2019	Conducted (TH01-KS)
Thermal Chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jun. 27, 2018	Dec. 04, 2018~ Jan. 04, 2019	Jun. 26, 2019	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz-44GHz	Apr. 17, 2018	Dec. 15, 2018~ Jan. 07, 2019	Apr. 16, 2019	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Jan. 29, 2018	Dec. 15, 2018~ Jan. 07, 2019	Jan. 28, 2019	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1648	1GHz~18GHz	Jan. 27, 2018	Dec. 15, 2018~ Jan. 07, 2019	Jan. 26, 2019	Radiation (03CH04-KS)
SHF-EHF Horn	Schwarzbeck	BBHA 9170	BBHA170249	15GHz~40GHz	Feb. 07, 2018	Dec. 15, 2018~ Jan. 07, 2019	Feb. 06, 2019	Radiation (03CH04-KS)
Amplifier	Burgeon	BPA-530	102219	0.01MHz ~3000MHz	Dec 15, 2018	Dec. 15, 2018~ Jan. 07, 2019	Dec. 14, 2019	Radiation (03CH04-KS)
Amplifier	MITEQ	TTA1840-35 -HG	2014749	18~40GHz	Feb. 08, 2018	Dec. 15, 2018~ Jan. 07, 2019	Feb. 07, 2019	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Apr. 17, 2018	Dec. 15, 2018~ Jan. 07, 2019	Apr. 16,2019	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY53270319	500MHz~26.5GHz	Oct. 12, 2018	Dec. 15, 2018~ Jan. 07, 2019	Oct. 11, 2019	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Dec. 15, 2018~ Jan. 07, 2019	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Dec. 15, 2018~ Jan. 07, 2019	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Dec. 15, 2018~ Jan. 07, 2019	NCR	Radiation (03CH04-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))	**3.3dB**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.8dB**

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.8dB**

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

Top Antenna:

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	20.30	20.02	19.92
20	1	49		19.89	19.90	19.99
20	1	99		19.93	19.90	20.02
20	50	0		19.22	19.16	19.07
20	50	24		19.20	19.16	19.21
20	50	50		19.14	19.14	19.16
20	100	0		19.20	19.14	19.19
20	1	0	16-QAM	19.18	19.21	19.14
20	1	49		19.08	19.12	19.25
20	1	99		19.09	19.11	19.35
20	50	0		18.21	18.20	18.14
20	50	24		18.19	18.15	18.23
20	50	50		18.18	18.18	18.26
20	100	0		18.20	18.16	18.21
20	1	0	64QAM	18.15	18.13	18.07
20	1	49		18.05	18.09	18.05
20	1	99		18.02	18.07	18.29
20	50	0		17.16	17.18	17.16
20	50	24		17.17	17.17	17.20
20	50	50		17.14	17.16	17.22
20	100	0		17.15	17.20	17.21
15	1	0	QPSK	20.05	20.04	20.00
15	1	37		19.97	20.03	20.04
15	1	74		19.99	19.97	20.01
15	36	0		19.17	19.14	19.20
15	36	20		19.15	19.16	19.23
15	36	39		19.14	19.17	19.21
15	75	0		19.13	19.17	19.24

15	1	0		19.27	19.28	19.24
15	1	37		19.17	19.28	19.43
15	1	74		19.22	19.26	19.40
15	36	0	**16-QAM**	18.16	18.17	18.20
15	36	20		18.17	18.20	18.24
15	36	39		18.14	18.07	18.23
15	75	0		18.14	18.20	18.23
15	1	0		18.18	18.20	18.16
15	1	37		18.11	18.15	18.35
15	1	74		18.15	18.13	18.31
15	36	0	**64QAM**	17.16	17.15	17.20
15	36	20		17.16	17.18	17.24
15	36	39		17.13	17.18	17.23
15	75	0		17.14	17.17	17.22

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	19.87	19.89	20.04
10	1	25		19.93	19.94	20.00
10	1	49		19.84	19.85	19.86
10	25	0		19.06	19.03	19.09
10	25	12		19.09	19.05	19.09
10	25	25		18.96	18.96	19.03
10	50	0		19.01	19.01	19.07
10	1	0	16-QAM	19.01	19.10	19.36
10	1	25		19.08	19.06	19.33
10	1	49		18.99	19.09	19.18
10	25	0		18.03	18.04	18.08
10	25	12		18.05	18.06	18.12
10	25	25		17.98	17.96	18.03
10	50	0		18.01	18.02	18.08
10	1	0	64QAM	18.03	18.05	18.23
10	1	25		18.05	17.99	18.28
10	1	49		18.00	18.03	18.10
10	25	0		17.04	17.07	17.10
10	25	12		17.05	17.05	17.10
10	25	25		16.98	16.97	17.05
10	50	0		16.99	17.01	17.07
5	1	0	QPSK	19.88	19.78	19.91
5	1	12		19.90	19.90	19.93
5	1	24		19.87	19.78	19.87
5	12	0		18.98	18.91	18.99
5	12	7		19.03	18.98	19.05
5	12	13		19.01	18.93	19.03
5	25	0		19.00	18.98	19.02
5	1	0	16-QAM	19.06	19.03	19.30
5	1	12		19.05	19.13	19.26
5	1	24		19.03	18.98	19.22
5	12	0		18.00	17.94	18.01
5	12	7		18.04	18.00	18.06

5	12	13		18.01	17.98	18.07
5	25	0		18.00	17.96	18.03
5	1	0		17.98	17.93	18.19
5	1	12		18.00	18.06	18.19
5	1	24		17.94	17.91	18.13
5	12	0	64QAM	16.97	16.93	17.00
5	12	7		17.02	17.00	17.05
5	12	13		17.00	16.96	17.08
5	25	0		17.00	16.94	17.02

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	20.30	20.20	20.25
3	1	8		20.39	20.27	20.38
3	1	14		20.33	20.21	20.32
3	8	0		19.38	19.29	19.40
3	8	4		19.42	19.37	19.46
3	8	7		19.39	19.32	19.42
3	15	0		19.46	19.35	19.44
3	1	0	16-QAM	19.39	19.43	19.53
3	1	8		19.52	19.51	19.71
3	1	14		19.45	19.45	19.59
3	8	0		18.44	18.36	18.42
3	8	4		18.45	18.39	18.46
3	8	7		18.45	18.37	18.47
3	15	0		18.44	18.35	18.41
3	1	0	64QAM	18.31	18.34	18.49
3	1	8		18.45	18.45	18.41
3	1	14		18.39	18.36	18.41
3	8	0		17.36	17.32	17.41
3	8	4		17.42	17.34	17.44
3	8	7		17.38	17.34	17.45
3	15	0		17.41	17.32	17.43
1.4	1	0	QPSK	20.12	20.10	20.12
1.4	1	3		20.20	20.22	20.22
1.4	1	5		20.18	20.05	20.15
1.4	3	0		20.21	20.12	20.09
1.4	3	1		20.25	20.20	20.19
1.4	3	3		20.23	20.08	20.16
1.4	6	0		19.26	19.19	19.28
1.4	1	0	16-QAM	19.25	19.34	19.46
1.4	1	3		19.35	19.44	19.55
1.4	1	5		19.29	19.32	19.48
1.4	3	0		19.18	19.15	19.23
1.4	3	1		19.21	19.20	19.23

1.4	3	3		19.17	19.15	19.22
1.4	6	0		18.32	18.24	18.34
1.4	1	0		18.16	18.26	18.34
1.4	1	3		18.27	18.33	18.42
1.4	1	5		18.26	18.21	18.37
1.4	3	0	64QAM	18.23	18.20	18.29
1.4	3	1		18.26	18.23	18.37
1.4	3	3		18.23	18.17	18.30
1.4	6	0		17.26	17.20	17.26

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	19.60	19.65	19.59
20	1	49		19.48	19.59	19.45
20	1	99		19.47	19.49	19.38
20	50	0		18.68	18.76	18.63
20	50	24		18.64	18.74	18.60
20	50	50		18.59	18.70	18.55
20	100	0		18.60	18.72	18.58
20	1	0	16-QAM	18.90	18.96	18.87
20	1	49		18.80	18.91	18.67
20	1	99		18.85	18.73	18.71
20	50	0		17.66	17.73	17.64
20	50	24		17.65	17.72	17.61
20	50	50		17.58	17.69	17.53
20	100	0		17.59	17.68	17.56
20	1	0	64QAM	17.83	17.86	17.77
20	1	49		17.70	17.81	17.62
20	1	99		17.76	17.64	17.58
20	50	0		16.67	16.71	16.65
20	50	24		16.65	16.71	16.59
20	50	50		16.50	16.64	16.50
20	100	0		16.59	16.66	16.56
15	1	0	QPSK	19.48	19.63	19.49
15	1	37		19.44	19.56	19.46
15	1	74		19.45	19.53	19.42
15	36	0		18.60	18.72	18.59
15	36	20		18.59	18.69	18.57
15	36	39		18.58	18.65	18.51
15	75	0		18.58	18.72	18.57
15	1	0	16-QAM	18.75	18.97	18.73
15	1	37		18.71	18.88	18.74
15	1	74		18.82	18.77	18.73
15	36	0		17.57	17.66	17.54
15	36	20		17.57	17.62	17.58

15	36	39		17.54	17.44	17.50
15	75	0		17.56	17.64	17.55
15	1	0		17.70	17.91	17.64
15	1	37		17.61	17.81	17.59
15	1	74		17.75	17.72	17.68
15	36	0	**64QAM**	16.57	16.63	16.56
15	36	20		16.57	16.67	16.55
15	36	39		16.50	16.63	16.49
15	75	0		16.56	16.71	16.55

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	19.32	19.43	19.33
10	1	25		19.36	19.32	19.36
10	1	49		19.21	19.34	19.18
10	25	0		18.43	18.57	18.40
10	25	12		18.45	18.58	18.41
10	25	25		18.37	18.51	18.32
10	50	0		18.42	18.52	18.42
10	1	0	16-QAM	18.62	18.77	18.59
10	1	25		18.42	18.78	18.51
10	1	49		18.52	18.62	18.53
10	25	0		17.44	17.57	17.41
10	25	12		17.44	17.56	17.40
10	25	25		17.35	17.44	17.31
10	50	0		17.40	17.50	17.39
10	1	0	64QAM	17.50	17.67	17.53
10	1	25		17.57	17.55	17.54
10	1	49		17.42	17.57	17.42
10	25	0		16.44	16.56	16.42
10	25	12		16.43	16.55	16.40
10	25	25		16.33	16.46	16.33
10	50	0		16.40	16.50	16.34
5	1	0	QPSK	19.41	19.41	19.33
5	1	12		19.36	19.48	19.35
5	1	24		19.28	19.40	19.23
5	12	0		18.48	18.55	18.39
5	12	7		18.48	18.61	18.43
5	12	13		18.43	18.55	18.38
5	25	0		18.43	18.55	18.36
5	1	0	16-QAM	18.67	18.75	18.57
5	1	12		18.58	18.79	18.59
5	1	24		18.48	18.68	18.47
5	12	0		17.45	17.54	17.38
5	12	7		17.48	17.59	17.43

5	12	13		17.40	17.55	17.38
5	25	0		17.41	17.53	17.36
5	1	0		17.58	17.64	17.50
5	1	12		17.54	17.72	17.52
5	1	24		17.42	17.59	17.44
5	12	0	64QAM	16.43	16.54	16.37
5	12	7		16.47	16.59	16.42
5	12	13		16.38	16.56	16.34
5	25	0		16.41	16.56	16.37

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	19.35	19.37	19.18
3	1	8		19.47	19.57	19.34
3	1	14		19.24	19.41	19.21
3	8	0		18.47	18.53	18.39
3	8	4		18.44	18.60	18.40
3	8	7		18.38	18.52	18.41
3	15	0		18.46	18.59	18.41
3	1	0	16-QAM	18.64	18.66	18.47
3	1	8		18.68	18.87	18.67
3	1	14		18.41	18.68	18.47
3	8	0		17.48	17.55	17.37
3	8	4		17.53	17.63	17.45
3	8	7		17.44	17.58	17.41
3	15	0		17.45	17.58	17.38
3	1	0	64QAM	17.51	17.59	17.41
3	1	8		17.59	17.79	17.60
3	1	14		17.40	17.64	17.45
3	8	0		16.45	16.54	16.32
3	8	4		16.51	16.59	16.37
3	8	7		16.35	16.55	16.36
3	15	0		16.43	16.56	16.30
1.4	1	0	QPSK	19.26	19.36	19.15
1.4	1	3		19.33	19.51	19.33
1.4	1	5		19.25	19.43	19.22
1.4	3	0		19.31	19.41	19.26
1.4	3	1		19.37	19.49	19.32
1.4	3	3		19.26	19.43	19.29
1.4	6	0		18.38	18.54	18.35
1.4	1	0	16-QAM	18.52	18.69	18.44
1.4	1	3		18.54	18.81	18.64
1.4	1	5		18.47	18.76	18.58
1.4	3	0		18.37	18.46	18.32
1.4	3	1		18.38	18.53	18.34

1.4	3	3		18.30	18.51	18.33
1.4	6	0		17.47	17.55	17.40
1.4	1	0		17.43	17.59	17.38
1.4	1	3		17.48	17.70	17.54
1.4	1	5		17.43	17.65	17.50
1.4	3	0	**64QAM**	17.42	17.49	17.34
1.4	3	1		17.46	17.59	17.42
1.4	3	3		17.34	17.56	17.36
1.4	6	0		16.38	16.50	16.31

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	21.83	21.72	21.80
10	1	25		21.85	21.92	21.91
10	1	49		21.79	21.86	22.10
10	25	0		20.94	20.95	20.97
10	25	12		21.01	21.05	21.06
10	25	25		20.96	20.99	21.01
10	50	0		21.00	20.97	21.03
10	1	0	16-QAM	21.08	20.97	21.01
10	1	25		21.12	21.11	21.16
10	1	49		21.09	21.14	21.19
10	25	0		19.91	19.96	19.97
10	25	12		19.98	20.07	20.03
10	25	25		19.93	20.00	19.99
10	50	0		19.97	19.95	20.05
10	1	0	64QAM	20.02	19.87	19.98
10	1	25		20.02	20.05	20.04
10	1	49		20.03	20.07	20.12
10	25	0		18.90	18.94	18.95
10	25	12		18.99	19.03	19.03
10	25	25		18.91	18.96	18.99
10	50	0		18.96	18.92	19.03
5	1	0	QPSK	21.89	21.74	21.87
5	1	12		21.80	21.96	21.99
5	1	24		21.90	21.76	21.94
5	12	0		20.85	20.89	20.95
5	12	7		20.98	21.01	21.07
5	12	13		20.99	21.03	21.13
5	25	0		20.97	20.91	21.02
5	1	0	16-QAM	21.13	20.92	21.14
5	1	12		21.06	21.20	21.28
5	1	24		21.16	20.97	21.20
5	12	0		19.85	19.87	19.96
5	12	7		19.94	20.04	20.04

5	12	13		19.99	20.02	20.13
5	25	0		19.94	19.92	20.00
5	1	0		20.06	19.85	20.02
5	1	12		19.98	20.13	20.19
5	1	24		20.08	19.88	20.12
5	12	0	64QAM	18.82	18.85	18.95
5	12	7		18.94	19.01	19.06
5	12	13		18.98	19.00	19.13
5	25	0		18.93	18.93	19.03

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	21.86	21.69	21.85
3	1	8		21.83	22.06	22.03
3	1	14		21.83	21.89	22.00
3	8	0		20.93	20.91	21.03
3	8	4		20.91	21.10	21.13
3	8	7		20.92	21.12	21.11
3	15	0		20.96	21.02	21.12
3	1	0	16-QAM	21.09	20.94	21.11
3	1	8		21.07	21.34	21.31
3	1	14		21.10	21.11	21.28
3	8	0		19.97	19.96	20.07
3	8	4		19.96	20.14	20.20
3	8	7		19.97	20.13	20.16
3	15	0		19.95	20.02	20.12
3	1	0	64QAM	20.05	19.87	20.02
3	1	8		20.00	20.24	20.24
3	1	14		20.04	20.02	20.18
3	8	0		18.94	18.93	19.03
3	8	4		18.93	19.10	19.16
3	8	7		18.93	19.10	19.11
3	15	0		18.92	18.99	19.11
1.4	1	0	QPSK	21.93	21.83	21.96
1.4	1	3		21.92	22.09	22.06
1.4	1	5		21.82	22.05	21.99
1.4	3	0		21.93	21.89	21.97
1.4	3	1		21.98	21.99	22.04
1.4	3	3		21.87	22.03	22.03
1.4	6	0		21.03	21.11	21.12
1.4	1	0	16-QAM	21.19	21.07	21.24
1.4	1	3		21.17	21.32	21.36
1.4	1	5		21.08	21.26	21.25
1.4	3	0		21.02	20.94	21.04
1.4	3	1		20.98	21.00	21.08

1.4	3	3		20.89	21.10	21.05
1.4	6	0		20.06	20.15	20.15
1.4	1	0		20.10	20.01	20.13
1.4	1	3		20.07	20.21	20.25
1.4	1	5		20.00	20.18	20.18
1.4	3	0	64QAM	20.04	19.99	20.07
1.4	3	1		20.02	20.05	20.10
1.4	3	3		19.92	20.15	20.09
1.4	6	0		19.00	19.10	19.10

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	18.77	18.85	18.95
20	1	49		18.78	18.79	18.87
20	1	99		18.85	18.88	18.92
20	50	0		17.87	18.04	18.11
20	50	24		17.87	18.06	17.90
20	50	50		17.96	18.10	18.06
20	100	0		17.97	18.05	18.06
20	1	0	16-QAM	18.18	18.11	18.38
20	1	49		18.30	18.08	18.32
20	1	99		18.35	18.34	18.37
20	50	0		16.87	17.05	17.04
20	50	24		16.94	17.06	17.06
20	50	50		16.97	17.02	16.99
20	100	0		16.90	17.04	17.07
20	1	0	64QAM	17.11	17.06	17.29
20	1	49		17.17	16.98	17.23
20	1	99		17.26	17.22	17.25
20	50	0		15.89	16.05	16.04
20	50	24		15.96	16.05	16.04
20	50	50		15.84	16.02	16.02
20	100	0		15.92	16.01	16.04
15	1	0	QPSK	18.82	18.86	18.90
15	1	37		18.83	18.87	18.89
15	1	74		18.88	18.88	18.93
15	36	0		17.91	18.08	18.05
15	36	20		17.97	18.05	18.05
15	36	39		17.95	18.01	18.05
15	75	0		17.95	18.04	18.02
15	1	0	16-QAM	18.24	18.13	18.43
15	1	37		18.30	18.13	18.31
15	1	74		18.38	18.26	18.35
15	36	0		16.88	17.06	17.05
15	36	20		16.95	17.04	17.08

15	36	39		16.82	17.00	17.11
15	75	0		16.94	17.04	17.19
15	1	0		17.14	17.04	17.31
15	1	37		17.19	17.02	17.17
15	1	74		17.25	17.16	17.29
15	36	0	64QAM	15.87	16.05	16.08
15	36	20		15.94	16.03	16.06
15	36	39		15.87	15.91	16.00
15	75	0		15.96	16.02	16.03

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	18.68	18.78	18.70
10	1	25		18.56	18.71	18.75
10	1	49		18.69	18.78	18.77
10	25	0		17.83	17.88	17.93
10	25	12		17.80	17.89	17.97
10	25	25		17.71	17.88	17.90
10	50	0		17.84	17.90	17.92
10	1	0	16-QAM	18.08	17.92	18.11
10	1	25		18.04	17.94	18.10
10	1	49		18.11	18.08	18.22
10	25	0		16.84	16.87	16.94
10	25	12		16.83	16.89	16.95
10	25	25		16.80	16.86	16.91
10	50	0		16.86	16.89	16.91
10	1	0	64QAM	16.90	16.86	17.14
10	1	25		16.95	16.90	17.03
10	1	49		16.97	16.98	17.06
10	25	0		15.84	15.89	15.91
10	25	12		15.85	15.89	15.93
10	25	25		15.79	15.86	15.85
10	50	0		15.82	15.87	15.96
5	1	0	QPSK	18.70	18.67	18.74
5	1	12		18.80	18.84	18.90
5	1	24		18.79	18.80	18.90
5	12	0		17.86	17.82	17.83
5	12	7		17.93	17.89	18.01
5	12	13		17.92	17.98	18.02
5	25	0		17.88	17.86	17.93
5	1	0	16-QAM	18.03	17.89	18.14
5	1	12		18.11	18.03	18.27
5	1	24		18.10	18.06	18.33
5	12	0		16.83	16.86	16.87
5	12	7		16.88	16.88	17.01

5	12	13		16.91	16.97	16.99
5	25	0		16.90	16.86	16.90
5	1	0		16.96	16.78	17.02
5	1	12		17.05	16.94	17.15
5	1	24		17.04	16.98	17.20
5	12	0	64QAM	15.83	15.80	15.85
5	12	7		15.89	15.87	15.99
5	12	13		15.90	15.85	15.99
5	25	0		15.89	15.90	15.91

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	21.76	21.91	21.81
10	1	25		21.82	21.83	21.86
10	1	49		21.94	21.95	21.90
10	25	0		20.98	21.01	21.01
10	25	12		21.01	21.04	21.05
10	25	25		21.06	21.04	21.05
10	50	0		21.02	21.03	21.05
10	1	0	16-QAM	20.95	21.05	21.04
10	1	25		21.05	21.08	21.08
10	1	49		21.15	21.12	21.11
10	25	0		19.98	19.99	20.01
10	25	12		19.98	20.04	20.05
10	25	25		20.00	20.03	20.00
10	50	0		19.99	20.00	20.03
10	1	0	64QAM	19.87	20.03	19.98
10	1	25		19.93	20.02	20.03
10	1	49		20.13	20.03	20.01
10	25	0		18.95	18.97	18.99
10	25	12		19.02	19.04	19.05
10	25	25		18.99	19.01	19.01
10	50	0		18.97	19.01	19.02
5	1	0	QPSK	21.75	21.72	21.80
5	1	12		21.89	21.90	21.92
5	1	24		21.88	21.92	21.93
5	12	0		20.91	20.95	21.02
5	12	7		21.01	21.09	21.06
5	12	13		21.00	21.05	21.03
5	25	0		20.98	20.97	21.04
5	1	0	16-QAM	20.95	20.98	21.00
5	1	12		21.08	21.16	21.11
5	1	24		21.10	21.11	21.13
5	12	0		19.92	19.95	20.02
5	12	7		20.02	20.09	20.08

5	12	13		20.01	20.06	20.04
5	25	0		19.98	19.97	20.02
5	1	0		19.89	19.87	19.95
5	1	12		20.04	20.09	20.04
5	1	24		20.03	20.06	20.09
5	12	0	64QAM	18.89	18.93	19.00
5	12	7		19.01	19.07	19.03
5	12	13		18.99	19.06	19.02
5	25	0		18.97	18.96	19.03

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	21.78	21.80	21.80
3	1	8		21.93	21.91	21.90
3	1	14		21.88	21.92	21.92
3	8	0		20.92	20.94	20.93
3	8	4		21.01	21.07	21.04
3	8	7		20.99	21.02	21.06
3	15	0		21.02	21.06	21.07
3	1	0	16-QAM	20.98	21.01	21.00
3	1	8		21.15	21.25	21.20
3	1	14		21.09	21.14	21.11
3	8	0		19.97	20.01	20.03
3	8	4		20.06	20.12	20.12
3	8	7		20.04	20.06	20.07
3	15	0		19.99	20.04	20.06
3	1	0	64QAM	19.91	19.94	19.95
3	1	8		20.08	20.18	20.10
3	1	14		20.03	20.11	20.07
3	8	0		18.92	18.97	18.95
3	8	4		19.02	19.06	19.06
3	8	7		19.00	19.04	19.05
3	15	0		18.97	19.03	19.05
1.4	1	0	QPSK	21.67	21.69	21.69
1.4	1	3		21.82	21.80	21.79
1.4	1	5		21.77	21.81	21.81
1.4	3	0		21.78	21.80	21.80
1.4	3	1		21.93	21.91	21.90
1.4	3	3		21.88	21.92	21.92
1.4	6	0		20.91	20.95	20.96
1.4	1	0	16-QAM	20.87	20.90	20.89
1.4	1	3		21.08	21.10	21.10
1.4	1	5		20.98	21.01	21.00
1.4	3	0		21.15	21.25	21.20
1.4	3	1		21.09	21.14	21.11

1.4	3	3		20.99	21.02	21.06
1.4	6	0		20.90	20.93	20.94
1.4	1	0		19.93	19.96	19.97
1.4	1	3		20.10	20.20	20.12
1.4	1	5		20.05	20.13	20.09
1.4	3	0	64QAM	19.23	19.20	19.01
1.4	3	1		19.04	19.08	19.08
1.4	3	3		19.02	19.06	19.07
1.4	6	0		18.99	19.05	19.07

LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	21.75	21.90	21.86
10	1	25		21.83	21.83	21.86
10	1	49		21.84	21.85	21.83
10	25	0		20.71	20.75	20.76
10	25	12		20.89	20.93	20.93
10	25	25		20.68	20.76	20.73
10	50	0		20.72	20.75	20.74
10	1	0	16-QAM	21.02	21.12	21.18
10	1	25		21.08	21.08	21.07
10	1	49		21.08	21.10	21.05
10	25	0		19.68	19.71	19.73
10	25	12		19.91	19.92	19.93
10	25	25		19.66	19.70	19.71
10	50	0		19.68	19.72	19.73
10	1	0	64QAM	19.90	20.00	20.02
10	1	25		19.97	19.98	20.01
10	1	49		19.99	20.03	20.01
10	25	0		18.67	18.74	18.72
10	25	12		18.88	18.91	18.93
10	25	25		18.67	18.71	18.72
10	50	0		18.68	18.69	18.72
5	1	0	QPSK	21.58	21.57	21.66
5	1	12		21.88	21.92	21.94
5	1	24		21.65	21.65	21.73
5	12	0		20.88	20.88	20.92
5	12	7		21.02	21.04	21.04
5	12	13		20.98	20.97	21.05
5	25	0		20.88	20.87	20.98
5	1	0	16-QAM	20.76	20.79	20.81
5	1	12		21.10	21.12	21.13
5	1	24		20.91	20.85	20.90
5	12	0		19.87	19.87	19.93
5	12	7		20.03	20.05	20.05

5	12	13		19.96	19.99	20.04
5	25	0		19.87	19.91	19.93
5	1	0		19.72	19.72	19.79
5	1	12		20.05	20.07	20.08
5	1	24		19.88	19.81	19.89
5	12	0	64QAM	18.86	18.85	18.90
5	12	7		19.02	19.04	19.02
5	12	13		18.95	18.99	19.04
5	25	0		18.87	18.91	18.92

LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	19.97	20.06	19.92
20	1	49		19.95	19.91	19.99
20	1	99		19.96	19.96	20.00
20	50	0		19.10	19.20	19.13
20	50	24		19.14	19.08	19.10
20	50	50		19.12	19.05	19.17
20	100	0		19.06	19.15	19.14
20	1	0	16-QAM	19.15	19.11	19.10
20	1	49		19.17	19.10	19.18
20	1	99		19.19	19.12	19.16
20	50	0		18.13	18.04	18.18
20	50	24		18.17	18.12	18.21
20	50	50		18.16	18.10	18.22
20	100	0		18.14	18.09	18.21
20	1	0	64QAM	17.87	17.85	17.84
20	1	49		17.88	17.84	17.86
20	1	99		17.91	17.84	17.90
20	50	0		17.06	16.98	17.13
20	50	24		17.10	17.05	17.16
20	50	50		17.09	17.04	17.16
20	100	0		17.20	17.11	17.24
15	1	0	QPSK	19.98	19.97	20.03
15	1	37		19.96	19.88	20.00
15	1	74		20.02	19.98	20.05
15	36	0		19.10	19.04	19.17
15	36	20		19.14	19.09	19.18
15	36	39		19.11	19.06	19.19
15	75	0		19.10	19.05	19.17
15	1	0	16-QAM	19.13	19.17	19.20
15	1	37		19.16	19.05	19.09
15	1	74		19.23	19.16	19.21
15	36	0		18.10	18.03	18.13
15	36	20		18.15	18.08	18.19

15	36	39		18.13	18.04	18.17
15	75	0		18.19	18.10	18.21
15	1	0		17.90	17.91	17.92
15	1	37		17.90	17.80	17.87
15	1	74		17.96	17.88	17.93
15	36	0	**64QAM**	17.14	17.07	17.17
15	36	20		17.18	17.10	17.21
15	36	39		17.16	17.09	17.18
15	75	0		17.21	17.08	17.25

LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	19.75	19.72	19.84
10	1	25		19.85	19.72	19.87
10	1	49		19.84	19.81	19.90
10	25	0		18.95	18.91	18.98
10	25	12		18.99	18.93	19.03
10	25	25		18.98	18.92	19.03
10	50	0		18.97	18.93	19.01
10	1	0	16-QAM	18.93	18.89	19.04
10	1	25		19.08	18.89	19.00
10	1	49		18.96	18.95	19.04
10	25	0		18.01	17.97	18.03
10	25	12		18.01	17.98	18.09
10	25	25		18.02	17.96	18.09
10	50	0		18.03	17.98	18.06
10	1	0	64QAM	17.63	17.63	17.75
10	1	25		17.81	17.64	17.73
10	1	49		17.69	17.65	17.79
10	25	0		16.97	16.91	16.99
10	25	12		16.99	16.92	17.03
10	25	25		16.97	16.93	17.03
10	50	0		16.95	16.93	17.01
5	1	0	QPSK	19.86	19.73	19.88
5	1	12		19.85	19.82	19.91
5	1	24		19.24	19.22	19.29
5	12	0		19.00	18.94	19.04
5	12	7		18.99	18.93	19.04
5	12	13		18.98	18.94	19.02
5	25	0		18.94	18.90	19.05
5	1	0	16-QAM	19.04	18.93	18.97
5	1	12		19.11	19.04	19.09
5	1	24		18.29	18.16	18.01
5	12	0		18.03	17.96	18.07
5	12	7		18.01	17.92	18.05

5	12	13		18.07	17.98	18.09
5	25	0		17.78	17.79	17.80
5	1	0		17.78	17.68	17.75
5	1	12		17.78	17.71	17.77
5	1	24		17.36	17.25	17.00
5	12	0	64QAM	16.97	16.92	17.03
5	12	7		16.96	16.91	17.03
5	12	13		17.07	16.98	17.11
5	25	0		17.00	17.12	17.06

Bottom Antenna:

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.77	23.76	23.50
20	1	49		23.65	23.69	23.52
20	1	99		23.68	23.58	23.65
20	50	0		22.89	22.85	22.68
20	50	24		22.85	22.88	22.74
20	50	50		22.88	22.88	22.84
20	100	0		22.85	22.80	22.67
20	1	0	16-QAM	22.94	22.97	22.69
20	1	49		22.83	22.93	22.78
20	1	99		22.89	22.81	22.98
20	50	0		21.85	21.86	21.66
20	50	24		21.90	21.86	21.70
20	50	50		21.86	21.88	21.76
20	100	0		21.83	21.82	21.70
20	1	0	64QAM	21.84	21.93	21.64
20	1	49		21.74	21.94	21.77
20	1	99		21.82	21.82	21.96
20	50	0		20.89	20.87	20.73
20	50	24		20.89	20.85	20.69
20	50	50		20.83	20.87	20.84
20	100	0		20.87	20.86	20.70
15	1	0	QPSK	23.75	23.75	23.56
15	1	37		23.72	23.72	23.66
15	1	74		23.71	23.60	23.63
15	36	0		22.83	22.83	22.58
15	36	20		22.85	22.86	22.77
15	36	39		22.89	22.86	22.80
15	75	0		22.85	22.84	22.79
15	1	0	16-QAM	22.93	22.92	22.81
15	1	37		22.87	22.95	22.92
15	1	74		22.90	22.88	22.93
15	36	0		21.80	21.82	21.61
15	36	20		21.81	21.84	21.74

15	36	39		21.77	21.84	21.78
15	75	0		21.81	21.84	21.77
15	1	0		21.90	21.94	21.75
15	1	37		21.80	21.94	21.92
15	1	74		21.86	21.79	21.94
15	36	0	**64QAM**	20.72	20.83	20.66
15	36	20		20.85	20.88	20.83
15	36	39		20.86	20.88	20.76
15	75	0		20.84	20.84	20.76

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.61	23.57	23.63
10	1	25		23.68	23.66	23.64
10	1	49		23.59	23.47	23.53
10	25	0		22.70	22.75	22.72
10	25	12		22.72	22.77	22.67
10	25	25		22.67	22.70	22.70
10	50	0		22.74	22.77	22.71
10	1	0	16-QAM	22.75	22.85	22.89
10	1	25		22.66	22.81	22.91
10	1	49		22.81	22.79	22.92
10	25	0		21.73	21.76	21.71
10	25	12		21.70	21.77	21.73
10	25	25		21.66	21.68	21.70
10	50	0		21.71	21.74	21.70
10	1	0	64QAM	21.72	21.75	21.80
10	1	25		21.70	21.81	21.99
10	1	49		21.76	21.79	21.84
10	25	0		20.77	20.79	20.72
10	25	12		20.74	20.78	20.75
10	25	25		20.66	20.73	20.71
10	50	0		20.73	20.72	20.70
5	1	0	QPSK	23.61	23.58	23.57
5	1	12		23.65	23.66	23.67
5	1	24		23.65	23.53	23.62
5	12	0		22.73	22.68	22.65
5	12	7		22.79	22.73	22.71
5	12	13		22.78	22.70	22.77
5	25	0		22.73	22.68	22.67
5	1	0	16-QAM	22.81	22.83	22.88
5	1	12		22.82	22.96	22.99
5	1	24		22.81	22.83	23.00
5	12	0		21.70	21.68	21.66
5	12	7		21.73	21.72	21.70

5	12	13		21.77	21.73	21.80
5	25	0		21.74	21.69	21.72
5	1	0		21.78	21.78	21.86
5	1	12		21.77	21.91	21.97
5	1	24		21.78	21.77	21.91
5	12	0	64QAM	20.80	20.74	20.63
5	12	7		20.81	20.78	20.78
5	12	13		20.85	20.78	20.85
5	25	0		20.76	20.72	20.73

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.64	23.56	23.55
3	1	8		23.71	23.70	23.68
3	1	14		23.68	23.58	23.63
3	8	0		22.68	22.65	22.68
3	8	4		22.78	22.68	22.84
3	8	7		22.74	22.67	22.72
3	15	0		22.75	22.69	22.74
3	1	0	16-QAM	22.78	22.81	22.89
3	1	8		22.90	22.95	22.91
3	1	14		22.86	22.86	22.95
3	8	0		21.73	21.69	21.50
3	8	4		21.78	21.74	21.50
3	8	7		21.78	21.71	21.40
3	15	0		21.77	21.68	21.49
3	1	0	64QAM	21.70	21.72	21.90
3	1	8		21.85	21.93	21.99
3	1	14		21.76	21.76	21.91
3	8	0		20.73	20.69	20.79
3	8	4		20.80	20.75	20.71
3	8	7		20.83	20.73	20.59
3	15	0		20.71	20.70	20.67
1.4	1	0	QPSK	23.25	23.17	23.11
1.4	1	3		23.36	23.29	23.22
1.4	1	5		23.28	23.19	23.17
1.4	3	0		23.24	23.20	23.18
1.4	3	1		23.29	23.24	23.23
1.4	3	3		23.25	23.19	23.21
1.4	6	0		22.32	22.26	22.27
1.4	1	0	16-QAM	22.40	22.43	22.45
1.4	1	3		22.53	22.56	22.58
1.4	1	5		22.45	22.43	22.49
1.4	3	0		22.23	22.26	22.23
1.4	3	1		22.27	22.33	22.31

1.4	3	3		22.22	22.24	22.26
1.4	6	0		21.39	21.29	21.34
1.4	1	0		21.36	21.42	21.46
1.4	1	3		21.38	21.50	21.57
1.4	1	5		21.32	21.41	21.47
1.4	3	0	64QAM	21.38	21.43	21.42
1.4	3	1		21.42	21.48	21.45
1.4	3	3		21.39	21.41	21.47
1.4	6	0		20.32	20.27	20.29

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.72	23.75	23.69
20	1	49		23.60	23.72	23.67
20	1	99		23.62	23.67	23.59
20	50	0		22.78	22.80	22.74
20	50	24		22.76	22.79	22.77
20	50	50		22.68	22.72	22.75
20	100	0		22.73	22.79	22.77
20	1	0	16-QAM	22.98	22.96	22.97
20	1	49		22.86	22.94	22.90
20	1	99		23.00	22.91	22.88
20	50	0		21.80	21.89	21.77
20	50	24		21.75	21.88	21.83
20	50	50		21.66	21.79	21.75
20	100	0		21.68	21.87	21.79
20	1	0	64QAM	21.92	21.98	21.89
20	1	49		21.79	21.91	21.87
20	1	99		21.91	21.87	21.87
20	50	0		20.78	20.89	20.85
20	50	24		20.76	20.90	20.83
20	50	50		20.77	20.84	20.68
20	100	0		20.76	20.86	20.69
15	1	0	QPSK	23.63	23.70	23.71
15	1	37		23.61	23.73	23.67
15	1	74		23.64	23.71	23.62
15	36	0		22.69	22.83	22.79
15	36	20		22.72	22.88	22.80
15	36	39		22.68	22.82	22.76
15	75	0		22.70	22.88	22.84
15	1	0	16-QAM	22.88	22.89	23.00
15	1	37		22.84	22.93	22.94
15	1	74		22.95	22.92	22.93
15	36	0		21.70	21.86	21.81
15	36	20		21.71	21.87	21.79

15	36	39		21.63	21.81	21.71
15	75	0		21.68	21.83	21.75
15	1	0		21.86	21.92	21.95
15	1	37		21.79	21.95	21.84
15	1	74		21.94	21.91	21.91
15	36	0	64QAM	20.73	20.85	20.72
15	36	20		20.74	20.88	20.87
15	36	39		20.72	20.83	20.61
15	75	0		20.68	20.84	20.76

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.59	23.65	23.61
10	1	25		23.53	23.66	23.43
10	1	49		23.40	23.54	23.46
10	25	0		22.62	22.76	22.68
10	25	12		22.59	22.78	22.69
10	25	25		22.52	22.68	22.61
10	50	0		22.57	22.76	22.70
10	1	0	16-QAM	22.85	22.93	22.84
10	1	25		22.65	22.86	22.87
10	1	49		22.67	22.88	22.75
10	25	0		21.61	21.75	21.57
10	25	12		21.58	21.74	21.66
10	25	25		21.54	21.65	21.56
10	50	0		21.58	21.74	21.71
10	1	0	64QAM	21.84	21.99	21.79
10	1	25		21.60	21.91	21.70
10	1	49		21.56	21.83	21.70
10	25	0		20.62	20.75	20.64
10	25	12		20.61	20.75	20.70
10	25	25		20.51	20.70	20.52
10	50	0		20.57	20.73	20.68
5	1	0	QPSK	23.61	23.59	23.51
5	1	12		23.58	23.67	23.58
5	1	24		23.37	23.61	23.47
5	12	0		22.66	22.67	22.66
5	12	7		22.67	22.78	22.63
5	12	13		22.56	22.76	22.61
5	25	0		22.63	22.75	22.54
5	1	0	16-QAM	22.94	22.90	22.79
5	1	12		22.86	22.97	22.87
5	1	24		22.66	22.91	22.74
5	12	0		21.70	21.66	21.60
5	12	7		21.70	21.76	21.55

5	12	13		21.56	21.76	21.71
5	25	0		21.70	21.72	21.56
5	1	0		21.89	21.83	21.74
5	1	12		21.77	21.92	21.84
5	1	24		21.58	21.85	21.76
5	12	0	64QAM	20.74	20.69	20.63
5	12	7		20.74	20.81	20.71
5	12	13		20.61	20.78	20.71
5	25	0		20.65	20.73	20.75

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.58	23.53	23.49
3	1	8		23.65	23.70	23.68
3	1	14		23.40	23.59	23.49
3	8	0		22.69	22.65	22.68
3	8	4		22.72	22.80	22.52
3	8	7		22.60	22.78	22.69
3	15	0		22.70	22.78	22.65
3	1	0	16-QAM	22.89	22.86	22.78
3	1	8		22.92	22.97	22.99
3	1	14		22.69	22.92	22.82
3	8	0		21.76	21.71	21.65
3	8	4		21.77	21.69	21.55
3	8	7		21.66	21.80	21.81
3	15	0		21.72	21.89	21.76
3	1	0	64QAM	21.85	21.80	21.72
3	1	8		21.84	21.99	21.94
3	1	14		21.67	21.90	21.74
3	8	0		20.75	20.70	20.56
3	8	4		20.83	20.82	20.65
3	8	7		20.66	20.77	20.44
3	15	0		20.71	20.86	20.69
1.4	1	0	QPSK	23.24	23.22	23.22
1.4	1	3		23.31	23.43	23.34
1.4	1	5		23.18	23.31	23.21
1.4	3	0		23.29	23.32	23.22
1.4	3	1		23.36	23.40	23.30
1.4	3	3		23.27	23.35	23.32
1.4	6	0		22.38	22.43	22.35
1.4	1	0	16-QAM	22.61	22.51	22.48
1.4	1	3		22.58	22.71	22.62
1.4	1	5		22.50	22.65	22.49
1.4	3	0		22.41	22.37	22.30
1.4	3	1		22.38	22.42	22.36

1.4	3	3		22.35	22.40	22.29
1.4	6	0		21.45	21.49	21.37
1.4	1	0		21.55	21.45	21.45
1.4	1	3		21.55	21.61	21.54
1.4	1	5		21.41	21.53	21.49
1.4	3	0	64QAM	21.54	21.56	21.45
1.4	3	1		21.58	21.59	21.50
1.4	3	3		21.54	21.57	21.46
1.4	6	0		20.38	20.41	20.32

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.11	22.97	23.12
10	1	25		23.13	23.08	23.17
10	1	49		23.04	23.02	23.32
10	25	0		22.18	22.17	22.21
10	25	12		22.29	22.25	22.33
10	25	25		22.22	22.19	22.25
10	50	0		22.28	22.16	22.30
10	1	0	16-QAM	22.35	22.31	22.34
10	1	25		22.37	22.31	22.46
10	1	49		22.29	22.29	22.47
10	25	0		21.19	21.16	21.21
10	25	12		21.27	21.23	21.30
10	25	25		21.22	21.20	21.26
10	50	0		21.25	21.15	21.30
10	1	0	64QAM	21.35	21.18	21.28
10	1	25		21.30	21.28	21.40
10	1	49		21.28	21.23	21.46
10	25	0		20.18	20.15	20.22
10	25	12		20.25	20.25	20.31
10	25	25		20.23	20.19	20.25
10	50	0		20.25	20.14	20.29
5	1	0	QPSK	23.15	22.93	23.19
5	1	12		23.05	23.16	23.23
5	1	24		23.13	22.91	23.22
5	12	0		22.15	22.09	22.24
5	12	7		22.19	22.22	22.36
5	12	13		22.25	22.20	22.37
5	25	0		22.21	22.13	22.33
5	1	0	16-QAM	22.37	22.11	22.42
5	1	12		22.31	22.34	22.49
5	1	24		22.42	22.18	22.49
5	12	0		21.14	21.08	21.23
5	12	7		21.19	21.22	21.33

5	12	13		21.25	21.20	21.37
5	25	0		21.20	21.12	21.30
5	1	0		21.34	21.07	21.37
5	1	12		21.28	21.31	21.45
5	1	24		21.36	21.10	21.41
5	12	0	64QAM	20.20	20.12	20.29
5	12	7		20.24	20.23	20.42
5	12	13		20.29	20.24	20.41
5	25	0		20.21	20.13	20.32

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.13	22.88	23.14
3	1	8		23.13	23.24	23.30
3	1	14		23.05	23.01	23.24
3	8	0		22.17	22.08	22.23
3	8	4		22.19	22.21	22.32
3	8	7		22.14	22.21	22.35
3	15	0		22.19	22.16	22.27
3	1	0	16-QAM	22.33	22.10	22.42
3	1	8		22.34	22.46	22.62
3	1	14		22.36	22.25	22.52
3	8	0		21.21	21.12	21.28
3	8	4		21.23	21.26	21.37
3	8	7		21.20	21.24	21.39
3	15	0		21.19	21.14	21.29
3	1	0	64QAM	21.31	21.09	21.29
3	1	8		21.31	21.39	21.51
3	1	14		21.32	21.20	21.47
3	8	0		20.19	20.11	20.26
3	8	4		20.22	20.23	20.36
3	8	7		20.22	20.22	20.39
3	15	0		20.19	20.17	20.28
1.4	1	0	QPSK	23.03	22.91	23.11
1.4	1	3		23.06	23.17	23.26
1.4	1	5		22.98	23.09	23.16
1.4	3	0		23.06	22.95	23.13
1.4	3	1		23.13	23.05	23.20
1.4	3	3		22.97	23.11	23.18
1.4	6	0		22.15	22.18	22.25
1.4	1	0	16-QAM	22.30	22.14	22.37
1.4	1	3		22.29	22.35	22.49
1.4	1	5		22.25	22.29	22.44
1.4	3	0		22.12	22.02	22.19
1.4	3	1		22.12	22.06	22.23

1.4	3	3		22.03	22.11	22.24
1.4	6	0		21.21	21.23	21.28
1.4	1	0		21.33	21.08	21.33
1.4	1	3		21.22	21.27	21.43
1.4	1	5		21.19	21.23	21.39
1.4	3	0	64QAM	21.21	21.13	21.37
1.4	3	1		21.30	21.21	21.44
1.4	3	3		21.23	21.28	21.40
1.4	6	0		20.14	20.18	20.24

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.34	23.52	23.72
20	1	49		23.32	23.51	23.63
20	1	99		23.39	23.59	23.62
20	50	0		22.43	22.70	22.78
20	50	24		22.46	22.72	22.76
20	50	50		22.47	22.69	22.73
20	100	0		22.46	22.68	22.74
20	1	0	16-QAM	22.67	22.83	22.92
20	1	49		22.74	22.81	22.91
20	1	99		22.71	23.00	22.93
20	50	0		21.42	21.70	21.77
20	50	24		21.46	21.71	21.78
20	50	50		21.48	21.70	21.71
20	100	0		21.41	21.66	21.74
20	1	0	64QAM	21.63	21.72	22.00
20	1	49		21.70	21.79	21.92
20	1	99		21.67	21.92	21.97
20	50	0		20.43	20.70	20.79
20	50	24		20.50	20.72	20.82
20	50	50		20.51	20.68	20.69
20	100	0		20.47	20.69	20.72
15	1	0	QPSK	23.42	23.61	23.64
15	1	37		23.40	23.60	23.69
15	1	74		23.26	23.64	23.71
15	36	0		22.50	22.74	22.81
15	36	20		22.56	22.77	22.81
15	36	39		22.54	22.74	22.79
15	75	0		22.54	22.77	22.80
15	1	0	16-QAM	22.76	22.87	22.93
15	1	37		22.87	22.87	22.90
15	1	74		22.58	23.00	22.94
15	36	0		21.48	21.72	21.75
15	36	20		21.54	21.72	21.80

15	36	39		21.51	21.70	21.77
15	75	0		21.51	21.70	21.76
15	1	0		21.79	21.84	21.93
15	1	37		21.77	21.86	21.93
15	1	74		21.54	21.98	21.95
15	36	0	64QAM	20.50	20.74	20.81
15	36	20		20.55	20.74	20.82
15	36	39		20.59	20.73	20.79
15	75	0		20.49	20.70	20.76

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.28	23.48	23.45
10	1	25		23.23	23.49	23.45
10	1	49		23.17	23.48	23.46
10	25	0		22.41	22.62	22.61
10	25	12		22.41	22.62	22.62
10	25	25		22.39	22.61	22.60
10	50	0		22.41	22.63	22.64
10	1	0	16-QAM	22.57	22.80	22.89
10	1	25		22.61	22.73	22.85
10	1	49		22.51	22.74	22.89
10	25	0		21.39	21.59	21.62
10	25	12		21.38	21.59	21.61
10	25	25		21.35	21.54	21.58
10	50	0		21.35	21.59	21.60
10	1	0	64QAM	21.65	21.70	21.80
10	1	25		21.61	21.73	21.80
10	1	49		21.45	21.75	21.91
10	25	0		20.37	20.59	20.60
10	25	12		20.39	20.60	20.63
10	25	25		20.36	20.59	20.60
10	50	0		20.39	20.59	20.61
5	1	0	QPSK	23.28	23.40	23.48
5	1	12		23.37	23.59	23.60
5	1	24		23.32	23.55	23.57
5	12	0		22.42	22.56	22.61
5	12	7		22.53	22.65	22.68
5	12	13		22.44	22.70	22.69
5	25	0		22.44	22.59	22.67
5	1	0	16-QAM	22.62	22.67	22.85
5	1	12		22.72	22.81	22.95
5	1	24		22.68	22.79	22.96
5	12	0		21.43	21.54	21.63
5	12	7		21.49	21.61	21.70

5	12	13		21.40	21.68	21.68
5	25	0		21.44	21.58	21.64
5	1	0		21.58	21.66	21.79
5	1	12		21.68	21.77	21.90
5	1	24		21.60	21.80	21.88
5	12	0	64QAM	20.46	20.58	20.66
5	12	7		20.52	20.66	20.71
5	12	13		20.43	20.70	20.71
5	25	0		20.47	20.58	20.66

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.97	22.98	23.09
10	1	25		22.97	23.00	22.99
10	1	49		23.09	23.20	23.00
10	25	0		22.15	22.19	22.16
10	25	12		22.19	22.22	22.19
10	25	25		22.18	22.23	22.21
10	50	0		22.19	22.20	22.22
10	1	0	16-QAM	22.23	22.16	22.27
10	1	25		22.22	22.25	22.22
10	1	49		22.42	22.31	22.25
10	25	0		21.16	21.16	21.16
10	25	12		21.19	21.22	21.21
10	25	25		21.17	21.17	21.20
10	50	0		21.18	21.20	21.19
10	1	0	64QAM	21.11	21.15	21.29
10	1	25		21.17	21.20	21.21
10	1	49		21.37	21.24	21.22
10	25	0		20.14	20.17	20.17
10	25	12		20.19	20.21	20.22
10	25	25		20.17	20.22	20.21
10	50	0		20.18	20.19	20.20
5	1	0	QPSK	22.84	22.89	22.99
5	1	12		23.02	23.09	23.14
5	1	24		23.03	23.10	23.15
5	12	0		22.06	22.09	22.12
5	12	7		22.11	22.24	22.17
5	12	13		22.14	22.20	22.18
5	25	0		22.07	22.17	22.13
5	1	0	16-QAM	22.06	22.17	22.24
5	1	12		22.27	22.30	22.39
5	1	24		22.25	22.31	22.37
5	12	0		21.04	21.08	21.11
5	12	7		21.10	21.22	21.16

5	12	13		21.15	21.21	21.19
5	25	0		21.05	21.17	21.11
5	1	0		21.02	21.12	21.19
5	1	12		21.25	21.30	21.31
5	1	24		21.24	21.28	21.30
5	12	0	64QAM	20.07	20.11	20.13
5	12	7		20.13	20.25	20.20
5	12	13		20.20	20.23	20.23
5	25	0		20.08	20.19	20.14

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.83	22.92	22.99
3	1	8		23.04	23.13	23.19
3	1	14		22.96	23.00	23.11
3	8	0		21.99	22.07	22.09
3	8	4		22.10	22.17	22.20
3	8	7		22.06	22.14	22.18
3	15	0		22.10	22.16	22.20
3	1	0	16-QAM	22.04	22.14	22.24
3	1	8		22.25	22.36	22.41
3	1	14		22.17	22.28	22.33
3	8	0		21.03	21.13	21.12
3	8	4		21.15	21.21	21.25
3	8	7		21.13	21.20	21.21
3	15	0		21.10	21.18	21.20
3	1	0	64QAM	21.05	21.11	21.15
3	1	8		21.22	21.29	21.37
3	1	14		21.15	21.22	21.26
3	8	0		20.05	20.10	20.12
3	8	4		20.14	20.23	20.21
3	8	7		20.10	20.20	20.21
3	15	0		20.08	20.17	20.17
1.4	1	0	QPSK	22.79	22.88	22.94
1.4	1	3		22.92	23.04	23.13
1.4	1	5		22.85	22.95	23.04
1.4	3	0		22.89	22.91	23.03
1.4	3	1		22.94	23.01	23.13
1.4	3	3		22.89	23.02	23.08
1.4	6	0		22.03	22.09	22.13
1.4	1	0	16-QAM	22.03	22.11	22.16
1.4	1	3		22.16	22.25	22.28
1.4	1	5		22.09	22.19	22.24
1.4	3	0		21.92	21.99	22.05
1.4	3	1		21.99	22.09	22.16

1.4	3	3		21.90	22.01	22.11
1.4	6	0		21.05	21.16	21.19
1.4	1	0		21.01	21.11	21.12
1.4	1	3		21.16	21.26	21.33
1.4	1	5		21.09	21.21	21.22
1.4	3	0	64QAM	21.07	21.11	21.13
1.4	3	1		21.14	21.20	21.30
1.4	3	3		21.11	21.17	21.25
1.4	6	0		20.00	20.10	20.13

LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.02	23.00	22.98
10	1	25		23.00	23.07	23.06
10	1	49		22.99	23.05	23.06
10	25	0		21.87	21.92	21.93
10	25	12		22.09	22.17	22.13
10	25	25		21.88	21.94	21.93
10	50	0		21.86	21.94	21.93
10	1	0	16-QAM	22.31	22.24	22.23
10	1	25		22.19	22.29	22.25
10	1	49		22.27	22.32	22.24
10	25	0		20.89	20.91	20.92
10	25	12		21.09	21.13	21.11
10	25	25		20.87	20.94	20.92
10	50	0		20.89	20.92	20.89
10	1	0	64QAM	21.20	21.17	21.18
10	1	25		21.18	21.21	21.21
10	1	49		21.20	21.23	21.21
10	25	0		19.89	19.93	19.91
10	25	12		20.10	20.12	20.11
10	25	25		19.91	19.96	19.93
10	50	0		19.86	19.94	19.89
5	1	0	QPSK	22.78	22.78	22.77
5	1	12		23.04	23.13	23.12
5	1	24		22.88	22.89	22.86
5	12	0		22.11	22.07	22.09
5	12	7		22.18	22.19	22.23
5	12	13		22.18	22.15	22.18
5	25	0		22.09	22.10	22.16
5	1	0	16-QAM	22.00	22.03	22.05
5	1	12		22.26	22.36	22.34
5	1	24		22.07	22.13	22.11
5	12	0		21.09	21.09	21.08
5	12	7		21.19	21.19	21.22

5	12	13		21.14	21.13	21.17
5	25	0		21.11	21.08	21.16
5	1	0		20.99	20.98	21.01
5	1	12		21.28	21.32	21.28
5	1	24		21.10	21.10	21.06
5	12	0	64QAM	20.12	20.10	20.12
5	12	7		20.22	20.21	20.25
5	12	13		20.18	20.19	20.20
5	25	0		20.12	20.12	20.14

LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.73	23.81	23.76
20	1	49		23.72	23.66	23.68
20	1	99		23.72	23.63	23.62
20	50	0		22.91	22.99	22.86
20	50	24		22.96	22.95	22.88
20	50	50		22.91	22.89	22.83
20	100	0		22.88	22.83	22.81
20	1	0	16-QAM	22.86	22.83	22.84
20	1	49		22.84	22.77	22.76
20	1	99		22.79	22.75	22.69
20	50	0		21.90	21.86	21.86
20	50	24		21.94	21.86	21.87
20	50	50		21.90	21.87	21.82
20	100	0		21.90	21.83	21.80
20	1	0	64QAM	21.63	21.55	21.58
20	1	49		21.62	21.51	21.52
20	1	99		21.57	21.47	21.47
20	50	0		20.89	20.79	20.82
20	50	24		20.90	20.86	20.86
20	50	50		21.00	20.75	20.80
20	100	0		20.88	20.86	20.78
15	1	0	QPSK	23.80	23.77	23.74
15	1	37		23.76	23.65	23.67
15	1	74		23.74	23.72	23.69
15	36	0		22.91	22.83	22.83
15	36	20		23.07	22.85	22.83
15	36	39		23.13	22.78	22.80
15	75	0		22.92	22.86	22.85
15	1	0	16-QAM	22.85	22.78	22.83
15	1	37		22.84	22.74	22.71
15	1	74		22.85	22.74	22.74
15	36	0		21.81	21.75	21.78
15	36	20		21.85	21.72	21.78

15	36	39		21.80	21.75	21.73
15	75	0		21.89	21.82	21.82
15	1	0		21.60	21.54	21.58
15	1	37		21.55	21.49	21.47
15	1	74		21.60	21.48	21.50
15	36	0	**64QAM**	20.86	20.74	20.79
15	36	20		20.62	20.84	20.80
15	36	39		20.81	20.77	20.76
15	75	0		20.89	20.86	20.79

LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.51	23.54	23.48
10	1	25		23.63	23.53	23.53
10	1	49		23.52	23.57	23.57
10	25	0		22.65	22.69	22.68
10	25	12		22.76	22.73	22.72
10	25	25		22.71	22.68	22.69
10	50	0		22.79	22.76	22.75
10	1	0	16-QAM	22.65	22.65	22.66
10	1	25		22.69	22.61	22.59
10	1	49		22.59	22.60	22.60
10	25	0		21.69	21.69	21.65
10	25	12		21.72	21.69	21.69
10	25	25		21.70	21.69	21.66
10	50	0		21.73	21.74	21.70
10	1	0	64QAM	21.37	21.35	21.37
10	1	25		21.45	21.36	21.33
10	1	49		21.36	21.36	21.35
10	25	0		20.72	20.63	20.69
10	25	12		20.74	20.71	20.71
10	25	25		20.74	20.71	20.68
10	50	0		20.74	20.67	20.69
5	1	0	QPSK	23.45	23.48	23.42
5	1	12		23.57	23.47	23.47
5	1	24		23.46	23.51	23.51
5	12	0		22.59	22.63	22.62
5	12	7		22.70	22.67	22.66
5	12	13		22.65	22.62	22.63
5	25	0		22.73	22.70	22.69
5	1	0	16-QAM	22.88	22.81	22.86
5	1	12		22.87	22.77	22.74
5	1	24		22.88	22.77	22.77
5	12	0		21.84	21.78	21.81
5	12	7		21.88	21.75	21.81

5	12	13		21.83	21.78	21.76
5	25	0		21.92	21.85	21.85
5	1	0		21.48	21.42	21.46
5	1	12		21.43	21.37	21.35
5	1	24		21.48	21.36	21.38
5	12	0	64QAM	20.74	20.62	20.67
5	12	7		20.50	20.72	20.68
5	12	13		20.69	20.65	20.64
5	25	0		20.77	20.74	20.67

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	0	0	1	99	1	23.04
			1	0	0	0	1	23.94
			100	0	0	0	100	22.92
			100	0	100	0	200	22.64
			1	0	1	99	2	16.07
			1	0	1	0	2	18.62
			1	99	1	0	2	24.47
			100	0	1	99	101	21.15
		16QAM	0	0	1	99	1	22.20
			1	0	0	0	1	23.42
			100	0	0	0	100	21.88
			100	0	100	0	200	21.64
			1	0	1	99	2	16.37
			1	0	1	0	2	19.02
			1	99	1	0	2	23.71
			100	0	1	99	101	21.10
		64QAM	0	0	1	99	1	20.37
			1	0	0	0	1	23.24
			100	0	0	0	100	21.94
			100	0	100	0	200	21.65
			1	0	1	99	2	16.31
			1	0	1	0	2	18.79
			1	99	1	0	2	21.75
			100	0	1	99	101	21.14

21001	21199	QPSK	0	0	1	99	1	23.60
			1	0	0	0	1	23.88
			100	0	0	0	100	22.89
			100	0	100	0	200	22.61
			1	0	1	99	2	16.12
			1	0	1	0	2	18.61
			1	99	1	0	2	24.41
			100	0	1	99	101	21.05
		16QAM	0	0	1	99	1	23.45
			1	23	0	0	1	23.55
			100	0	0	0	100	21.82
			100	0	100	0	200	21.53
			1	0	1	99	2	16.48
			1	0	1	0	2	18.84
			1	99	1	0	2	23.70
			100	0	1	99	101	21.03
		64QAM	0	0	1	99	1	22.38
			1	0	0	0	1	23.15
			100	0	0	0	100	21.87
			100	0	100	0	200	21.54
			1	0	1	99	2	16.30
			1	0	1	0	2	18.65
			1	99	1	0	2	21.62
			100	0	1	99	101	21.50

21152	21350	QPSK	0	0	1	99	1	23.63
			1	0	0	0	1	23.54
			100	0	0	0	100	22.73
			100	0	100	0	200	22.56
			1	0	1	99	2	15.91
			1	0	1	0	2	18.39
			1	99	1	0	2	24.40
			100	0	1	99	101	20.90
		16QAM	0	0	1	99	1	23.59
			1	0	0	0	1	23.03
			100	0	0	0	100	21.65
			100	0	100	0	200	21.48
			1	0	1	99	2	16.26
			1	0	1	0	2	18.87
			1	99	1	0	2	23.65
			100	0	1	99	101	20.91
		64QAM	0	0	1	99	1	22.25
			1	0	0	0	1	20.08
			100	0	0	0	100	21.62
			100	0	100	0	200	21.47
			1	0	1	99	2	16.05
			1	0	1	0	2	18.52
			1	99	1	0	2	21.62
			100	0	1	99	101	21.01

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	22.73
		QPSK	1	0	1	74	2	16.05
		QPSK	1	99	1	0	2	24.35
		16QAM	100	0	75	0	175	21.67
		16QAM	1	0	1	74	2	16.55
		16QAM	1	99	1	0	2	22.72
		64QAM	100	0	75	0	175	21.69
		64QAM	1	0	1	74	2	16.29
		64QAM	1	99	1	0	2	21.77
21026	21197	QPSK	100	0	75	0	175	22.61
		QPSK	1	0	1	74	2	16.06
		QPSK	1	99	1	0	2	24.45
		16QAM	100	0	75	0	175	21.59
		16QAM	1	0	1	74	2	16.39
		16QAM	1	99	1	0	2	23.73
		64QAM	100	0	75	0	175	21.54
		64QAM	1	0	1	74	2	16.22
		64QAM	1	99	1	0	2	21.51
21201	21372	QPSK	100	0	75	0	175	22.62
		QPSK	1	0	1	74	2	15.95
		QPSK	1	99	1	0	2	19.82
		16QAM	100	0	75	0	175	21.54
		16QAM	1	0	1	74	2	16.44
		16QAM	1	99	1	0	2	20.38
		64QAM	100	0	75	0	175	21.59
		64QAM	1	0	1	74	2	16.05
		64QAM	1	99	1	0	2	20.09

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	22.55
		QPSK	1	0	1	99	2	16.10
		QPSK	1	74	1	0	2	24.49
		16QAM	75	0	100	0	175	21.69
		16QAM	1	0	1	99	2	16.48
		16QAM	1	74	1	0	2	23.95
		64QAM	75	0	100	0	175	21.63
		64QAM	1	0	1	99	2	16.36
		64QAM	1	74	1	0	2	21.97
21003	21174	QPSK	75	0	100	0	175	22.58
		QPSK	1	0	1	99	2	16.21
		QPSK	1	74	1	0	2	24.45
		16QAM	75	0	100	0	175	21.57
		16QAM	1	0	1	99	2	16.43
		16QAM	1	74	1	0	2	23.78
		64QAM	75	0	100	0	175	21.53
		64QAM	1	0	1	99	2	16.17
		64QAM	1	74	1	0	2	21.66
21179	21350	QPSK	75	0	100	0	175	22.61
		QPSK	1	0	1	99	2	15.94
		QPSK	1	74	1	0	2	24.41
		16QAM	75	0	100	0	175	21.62
		16QAM	1	0	1	99	2	16.45
		16QAM	1	74	1	0	2	23.85
		64QAM	75	0	100	0	175	21.42
		64QAM	1	0	1	99	2	16.37
		64QAM	1	74	1	0	2	21.70

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	22.73
		QPSK	1	0	1	49	2	16.08
		QPSK	1	99	1	0	2	24.42
		16QAM	100	0	50	0	150	21.65
		16QAM	1	0	1	49	2	16.47
		16QAM	1	99	1	0	2	23.76
		64QAM	100	0	50	0	150	21.72
		64QAM	1	0	1	49	2	16.40
		64QAM	1	99	1	0	2	21.75
21051	21195	QPSK	100	0	50	0	150	22.56
		QPSK	1	0	1	49	2	16.13
		QPSK	1	99	1	0	2	24.47
		16QAM	100	0	50	0	150	21.65
		16QAM	1	0	1	49	2	16.40
		16QAM	1	99	1	0	2	23.65
		64QAM	100	0	50	0	150	21.48
		64QAM	1	0	1	49	2	16.31
		64QAM	1	99	1	0	2	21.59
21251	21395	QPSK	100	0	50	0	150	22.67
		QPSK	1	0	1	49	2	15.96
		QPSK	1	99	1	0	2	24.35
		16QAM	100	0	50	0	150	21.61
		16QAM	1	0	1	49	2	16.54
		16QAM	1	99	1	0	2	23.94
		64QAM	100	0	50	0	150	21.65
		64QAM	1	0	1	49	2	16.29
		64QAM	1	99	1	0	2	21.96

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	22.63
		QPSK	1	0	1	99	2	16.05
		QPSK	1	49	1	0	2	24.38
		16QAM	50	0	100	0	150	21.77
		16QAM	1	0	1	99	2	16.37
		16QAM	1	49	1	0	2	23.80
		64QAM	50	0	100	0	150	21.64
		64QAM	1	0	1	99	2	16.24
		64QAM	1	49	1	0	2	21.85
21006	21150	QPSK	50	0	100	0	150	22.51
		QPSK	1	0	1	99	2	16.07
		QPSK	1	49	1	0	2	24.46
		16QAM	50	0	100	0	150	21.55
		16QAM	1	0	1	99	2	16.30
		16QAM	1	49	1	0	2	23.53
		64QAM	50	0	100	0	150	21.62
		64QAM	1	0	1	99	2	16.25
		64QAM	1	49	1	0	2	21.67
21206	21350	QPSK	50	0	100	0	150	22.56
		QPSK	1	0	1	99	2	15.90
		QPSK	1	49	1	0	2	24.44
		16QAM	50	0	100	0	150	21.62
		16QAM	1	0	1	99	2	16.38
		16QAM	1	49	1	0	2	23.67
		64QAM	50	0	100	0	150	21.60
		64QAM	1	0	1	99	2	16.43
		64QAM	1	49	1	0	2	21.69

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	22.74
		QPSK	1	0	1	74	2	16.15
		QPSK	1	74	1	0	2	24.48
		16QAM	75	0	75	0	150	21.77
		16QAM	1	0	1	74	2	16.50
		16QAM	1	74	1	0	2	23.84
		64QAM	75	0	75	0	150	21.75
		64QAM	1	0	1	74	2	16.33
		64QAM	1	74	1	0	2	21.99
21025	21175	QPSK	75	0	75	0	150	22.64
		QPSK	1	0	1	74	2	16.13
		QPSK	1	74	1	0	2	24.34
		16QAM	75	0	75	0	150	21.67
		16QAM	1	0	1	74	2	16.42
		16QAM	1	74	1	0	2	23.57
		64QAM	75	0	75	0	150	21.64
		64QAM	1	0	1	74	2	16.31
		64QAM	1	74	1	0	2	21.61
21225	21375	QPSK	75	0	75	0	150	22.67
		QPSK	1	0	1	74	2	15.92
		QPSK	1	74	1	0	2	24.41
		16QAM	75	0	75	0	150	21.68
		16QAM	1	0	1	74	2	16.47
		16QAM	1	74	1	0	2	23.25
		64QAM	75	0	75	0	150	21.65
		64QAM	1	0	1	74	2	16.35
		64QAM	1	74	1	0	2	21.13

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	22.26
		QPSK	1	0	1	49	2	15.90
		QPSK	1	74	1	0	2	23.90
		16QAM	75	0	50	0	125	21.42
		16QAM	1	0	1	49	2	16.43
		16QAM	1	74	1	0	2	23.21
		64QAM	75	0	50	0	125	21.60
		64QAM	1	0	1	49	2	16.20
		64QAM	1	74	1	0	2	21.54
21051	21171	QPSK	75	0	50	0	125	22.27
		QPSK	1	0	1	49	2	15.68
		QPSK	1	74	1	0	2	24.14
		16QAM	75	0	50	0	125	21.11
		16QAM	1	0	1	49	2	15.96
		16QAM	1	74	1	0	2	23.27
		64QAM	75	0	50	0	125	21.23
		64QAM	1	0	1	49	2	15.92
		64QAM	1	74	1	0	2	21.38
21277	21397	QPSK	75	0	50	0	125	22.23
		QPSK	1	0	1	49	2	15.55
		QPSK	1	74	1	0	2	24.26
		16QAM	75	0	50	0	125	21.25
		16QAM	1	0	1	49	2	16.07
		16QAM	1	74	1	0	2	23.45
		64QAM	75	0	50	0	125	21.21
		64QAM	1	0	1	49	2	15.94
		64QAM	1	74	1	0	2	22.41

CA_38C								
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		
37850	38048	QPSK	0	0	1	99	1	22.93
			1	0	0	0	1	23.16
			100	0	0	0	100	21.97
			100	0	100	0	200	21.80
			1	0	1	99	2	14.92
			1	0	1	0	2	17.77
			1	99	1	0	2	23.88
			100	0	1	99	101	20.11
		16QAM	0	0	1	99	1	21.97
			1	0	0	0	1	22.40
			100	0	0	0	100	21.16
			100	0	100	0	200	20.89
			1	0	1	99	2	15.19
			1	0	1	0	2	18.04
			1	99	1	0	2	23.05
			100	0	1	99	101	20.29
		64QAM	0	0	1	99	1	20.71
			1	0	0	0	1	22.07
			100	0	0	0	100	21.16
			100	0	100	0	200	20.88
			1	0	1	99	2	14.83
			1	0	1	0	2	17.58
			1	99	1	0	2	20.75
			100	0	1	99	101	20.08

37901	38099	QPSK	0	0	1	99	1	23.14
			1	0	0	0	1	23.17
			100	0	0	0	100	22.05
			100	0	100	0	200	21.81
			1	0	1	99	2	14.92
			1	0	1	0	2	17.78
			1	99	1	0	2	23.96
			100	0	1	99	101	20.03
		16QAM	0	0	1	99	1	22.15
			1	0	0	0	1	22.29
			100	0	0	0	100	21.05
			100	0	100	0	200	20.71
			1	0	1	99	2	14.99
			1	0	1	0	2	17.90
			1	99	1	0	2	22.89
			100	0	1	99	101	20.08
		64QAM	0	0	1	99	1	20.74
			1	0	0	0	1	22.02
			100	0	0	0	100	21.07
			100	0	100	0	200	20.76
			1	0	1	99	2	14.82
			1	0	1	0	2	17.51
			1	99	1	0	2	20.67
			100	0	1	99	101	19.96

37952	38150	QPSK	0	0	1	99	1	23.04
			1	0	0	0	1	23.23
			100	0	0	0	100	22.09
			100	0	100	0	200	21.84
			1	0	1	99	2	15.00
			1	0	1	0	2	17.82
			1	99	1	0	2	23.96
			100	0	1	99	101	20.23
		16QAM	0	0	1	99	1	22.05
			1	0	0	0	1	22.44
			100	0	0	0	100	21.21
			100	0	100	0	200	20.91
			1	0	1	99	2	15.18
			1	0	1	0	2	18.03
			1	99	1	0	2	23.02
			100	0	1	99	101	20.30
		64QAM	0	0	1	99	1	20.82
			1	0	0	0	1	22.17
			100	0	0	0	100	21.19
			100	0	100	0	200	20.92
			1	0	1	99	2	14.85
			1	0	1	0	2	17.63
			1	99	1	0	2	20.77
			100	0	1	99	101	20.11

CA_38C								
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		
37825	37975	QPSK	75	0	75	0	150	21.72
		QPSK	1	0	1	74	2	15.29
		QPSK	1	74	1	0	2	23.08
		16QAM	75	0	75	0	150	20.79
		16QAM	1	0	1	74	2	15.37
		16QAM	1	74	1	0	2	22.92
		64QAM	75	0	75	0	150	20.76
		64QAM	1	0	1	74	2	14.96
		64QAM	1	74	1	0	2	20.78
37925	38075	QPSK	75	0	75	0	150	21.89
		QPSK	1	0	1	74	2	15.17
		QPSK	1	74	1	0	2	23.95
		16QAM	75	0	75	0	150	20.90
		16QAM	1	0	1	74	2	15.15
		16QAM	1	74	1	0	2	22.85
		64QAM	75	0	75	0	150	20.91
		64QAM	1	0	1	74	2	14.98
		64QAM	1	74	1	0	2	20.71
38025	38175	QPSK	75	0	75	0	150	21.45
		QPSK	1	0	1	74	2	14.73
		QPSK	1	74	1	0	2	23.48
		16QAM	75	0	75	0	150	20.29
		16QAM	1	0	1	74	2	15.18
		16QAM	1	74	1	0	2	22.79
		64QAM	75	0	75	0	150	20.78
		64QAM	1	0	1	74	2	14.85
		64QAM	1	74	1	0	2	20.56

ERP/EIRP

LTE Band 2 (GT - LC = -0.87 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	23.36	23.29	23.22	23.71	23.70	23.68	23.65	23.66	23.67
Conducted Power (Watts)	0.2168	0.2133	0.2099	0.2350	0.2344	0.2333	0.2317	0.2323	0.2328
EIRP(dBm)	22.49	22.42	22.35	22.84	22.83	22.81	22.78	22.79	22.80
EIRP(Watts)	0.1774	0.1746	0.1718	0.1923	0.1919	0.1910	0.1897	0.1901	0.1905

LTE Band 2 (GT - LC = -0.87 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	23.68	23.66	23.64	23.75	23.75	23.56	23.77	23.76	23.50
Conducted Power (Watts)	0.2333	0.2323	0.2312	0.2371	0.2371	0.2270	0.2382	0.2377	0.2239
EIRP(dBm)	22.81	22.79	22.77	22.88	22.88	22.69	22.90	22.89	22.63
EIRP(Watts)	0.1910	0.1901	0.1892	0.1941	0.1941	0.1858	0.1950	0.1945	0.1832

LTE Band 2 (GT - LC = -0.87 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	22.53	22.56	22.58	22.90	22.95	23.01	22.81	22.83	23.00
Conducted Power (Watts)	0.1791	0.1803	0.1811	0.1950	0.1972	0.2000	0.1910	0.1919	0.1995
EIRP(dBm)	21.66	21.69	21.71	22.03	22.08	22.14	21.94	21.96	22.13
EIRP(Watts)	0.1466	0.1476	0.1483	0.1596	0.1614	0.1637	0.1563	0.1570	0.1633

LTE Band 2 (GT - LC = -0.87 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	22.66	22.81	23.01	22.87	23.05	23.02	22.89	22.81	22.98
Conducted Power (Watts)	0.1845	0.1910	0.2000	0.1936	0.2018	0.2004	0.1945	0.1910	0.1986
EIRP(dBm)	21.79	21.94	22.14	22.00	22.18	22.15	22.02	21.94	22.11
EIRP(Watts)	0.1510	0.1563	0.1637	0.1585	0.1652	0.1641	0.1592	0.1563	0.1626

LTE Band 2 (GT - LC = -0.87 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	21.38	21.50	21.57	21.85	21.93	21.99	21.77	21.91	21.97
Conducted Power (Watts)	0.1374	0.1413	0.1435	0.1531	0.1560	0.1581	0.1503	0.1552	0.1574
EIRP(dBm)	20.51	20.63	20.70	20.98	21.06	21.12	20.90	21.04	21.10
EIRP(Watts)	0.1125	0.1156	0.1175	0.1253	0.1276	0.1294	0.1230	0.1271	0.1288

LTE Band 2 (GT - LC = -0.87 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	21.70	21.81	21.99	21.86	21.79	22.04	21.82	21.82	21.96
Conducted Power (Watts)	0.1479	0.1517	0.1581	0.1535	0.1510	0.1600	0.1521	0.1521	0.1570
EIRP(dBm)	20.83	20.94	21.12	20.99	20.92	21.17	20.95	20.95	21.09
EIRP(Watts)	0.1211	0.1242	0.1294	0.1256	0.1236	0.1309	0.1245	0.1245	0.1285

LTE Band 4 (GT - LC = -0.72 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	23.31	23.43	23.34	23.65	23.70	23.68	23.58	23.67	23.58
Conducted Power (Watts)	0.2143	0.2203	0.2158	0.2317	0.2344	0.2333	0.2280	0.2328	0.2280
EIRP(dBm)	22.59	22.71	22.62	22.93	22.98	22.96	22.86	22.95	22.86
EIRP(Watts)	0.1816	0.1866	0.1828	0.1963	0.1986	0.1977	0.1932	0.1972	0.1932

LTE Band 4 (GT - LC = -0.72 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
Conducted Power (dBm)	23.53	23.66	23.43	23.61	23.73	23.67	23.72	23.75	23.69
Conducted Power (Watts)	0.2254	0.2323	0.2203	0.2296	0.2360	0.2328	0.2355	0.2371	0.2339
EIRP(dBm)	22.81	22.94	22.71	22.89	23.01	22.95	23.00	23.03	22.97
EIRP(Watts)	0.1910	0.1968	0.1866	0.1945	0.2000	0.1972	0.1995	0.2009	0.1982

LTE Band 4 (GT - LC = -0.72 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	22.58	22.71	22.62	22.92	23.07	22.99	22.86	22.97	22.87
Conducted Power (Watts)	0.1811	0.1866	0.1828	0.1959	0.2028	0.1991	0.1932	0.1982	0.1936
EIRP(dBm)	21.86	21.99	21.90	22.20	22.35	22.27	22.14	22.25	22.15
EIRP(Watts)	0.1535	0.1581	0.1549	0.1660	0.1718	0.1687	0.1637	0.1679	0.1641

LTE Band 4 (GT - LC = -0.72 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
Conducted Power (dBm)	22.85	22.93	22.84	22.88	23.09	23.00	22.98	23.06	23.07
Conducted Power (Watts)	0.1928	0.1963	0.1923	0.1941	0.2037	0.1995	0.1986	0.2023	0.2028
EIRP(dBm)	22.13	22.21	22.12	22.16	22.37	22.28	22.26	22.34	22.35
EIRP(Watts)	0.1633	0.1663	0.1629	0.1644	0.1726	0.1690	0.1683	0.1714	0.1718

LTE Band 4 (GT - LC = -0.72 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	21.55	21.61	21.54	21.84	21.99	21.94	21.77	21.92	21.84
Conducted Power (Watts)	0.1429	0.1449	0.1426	0.1528	0.1581	0.1563	0.1503	0.1556	0.1528
EIRP(dBm)	20.83	20.89	20.82	21.12	21.27	21.22	21.05	21.20	21.12
EIRP(Watts)	0.1211	0.1227	0.1208	0.1294	0.1340	0.1324	0.1274	0.1318	0.1294

LTE Band 4 (GT - LC = -0.72 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
Conducted Power (dBm)	21.84	21.99	21.79	21.79	22.05	21.84	21.92	21.98	22.09
Conducted Power (Watts)	0.1528	0.1581	0.1510	0.1510	0.1603	0.1528	0.1556	0.1578	0.1618
EIRP(dBm)	21.12	21.27	21.07	21.07	21.33	21.12	21.20	21.26	21.37
EIRP(Watts)	0.1294	0.1340	0.1279	0.1279	0.1358	0.1294	0.1318	0.1337	0.1371

LTE Band 5 (GT - LC = -4.97 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	23.06	23.17	23.26	23.13	23.24	23.30	23.05	23.16	23.23
Conducted Power (Watts)	0.2023	0.2075	0.2118	0.2056	0.2109	0.2138	0.2018	0.2070	0.2104
ERP(dBm)	15.94	16.05	16.14	16.01	16.12	16.18	15.93	16.04	16.11
ERP(Watts)	0.0393	0.0403	0.0411	0.0399	0.0409	0.0415	0.0392	0.0402	0.0408

LTE Band 5 (GT - LC = -4.97 dB) QPSK			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency (MHz)	829	836.5	844
Conducted Power (dBm)	23.04	23.02	23.32
Conducted Power (Watts)	0.2014	0.2004	0.2148
ERP(dBm)	15.92	15.90	16.20
ERP(Watts)	0.0391	0.0389	0.0417

LTE Band 5 (GT - LC = -4.97 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	22.29	22.35	22.49	22.34	22.46	22.62	22.31	22.34	22.49
Conducted Power (Watts)	0.1694	0.1718	0.1774	0.1714	0.1762	0.1828	0.1702	0.1714	0.1774
ERP(dBm)	15.17	15.23	15.37	15.22	15.34	15.50	15.19	15.22	15.37
ERP(Watts)	0.0329	0.0333	0.0344	0.0333	0.0342	0.0355	0.0330	0.0333	0.0344

LTE Band 5 (GT - LC = -4.97 dB) 16QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency (MHz)	829	836.5	844
Conducted Power (dBm)	22.29	22.29	22.47
Conducted Power (Watts)	0.1694	0.1694	0.1766
ERP(dBm)	15.17	15.17	15.35
ERP(Watts)	0.0329	0.0329	0.0343

LTE Band 5 (GT - LC = -4.97 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	21.30	21.21	21.44	21.31	21.39	21.51	21.28	21.31	21.45
Conducted Power (Watts)	0.1349	0.1321	0.1393	0.1352	0.1377	0.1416	0.1343	0.1352	0.1396
ERP(dBm)	14.18	14.09	14.32	14.19	14.27	14.39	14.16	14.19	14.33
ERP(Watts)	0.0262	0.0256	0.0270	0.0262	0.0267	0.0275	0.0261	0.0262	0.0271

LTE Band 5 (GT - LC = -4.97 dB) 64QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency (MHz)	829	836.5	844
Conducted Power (dBm)	21.28	21.23	21.46
Conducted Power (Watts)	0.1343	0.1327	0.1400
ERP(dBm)	14.16	14.11	14.34
ERP(Watts)	0.0261	0.0258	0.0272

LTE Band 7 (GT - LC = -1.23 dB) QPSK			
Bandwidth	**5M**		
Channel	**20775**	**21100**	**21425**
	(Low)	**(Mid)**	**(High)**
Frequency (MHz)	**2502.5**	**2535**	**2567.5**
Conducted Power (dBm)	23.37	23.59	23.60
Conducted Power (Watts)	0.2173	0.2286	0.2291
EIRP(dBm)	22.14	22.36	22.37
EIRP(Watts)	0.1637	0.1722	0.1726

LTE Band 7 (GT - LC = -1.23 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)	23.23	23.49	23.45	23.26	23.64	23.71	23.34	23.52	23.72
Conducted Power (Watts)	0.2104	0.2234	0.2213	0.2118	0.2312	0.2350	0.2158	0.2249	0.2355
EIRP(dBm)	22.00	22.26	22.22	22.03	22.41	22.48	22.11	22.29	22.49
EIRP(Watts)	0.1585	0.1683	0.1667	0.1596	0.1742	0.1770	0.1626	0.1694	0.1774

LTE Band 7 (GT - LC = -1.23 dB) 16QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	22.68	22.79	22.96
Conducted Power (Watts)	0.1854	0.1901	0.1977
EIRP(dBm)	21.45	21.56	21.73
EIRP(Watts)	0.1396	0.1432	0.1489

LTE Band 7 (GT - LC = -1.23 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)	22.57	22.80	22.89	22.58	23.00	23.14	22.67	22.83	23.12
Conducted Power (Watts)	0.1807	0.1905	0.1945	0.1811	0.1995	0.2061	0.1849	0.1919	0.2051
EIRP(dBm)	21.34	21.57	21.66	21.35	21.77	21.91	21.44	21.60	21.89
EIRP(Watts)	0.1361	0.1435	0.1466	0.1365	0.1503	0.1552	0.1393	0.1445	0.1545

LTE Band 7 (GT - LC = -1.23 dB) 64QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	21.68	21.77	21.90
Conducted Power (Watts)	0.1472	0.1503	0.1549
EIRP(dBm)	20.45	20.54	20.67
EIRP(Watts)	0.1109	0.1132	0.1167

LTE Band 7 (GT - LC = -1.23 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)	21.45	21.75	21.91	21.54	21.98	22.05	21.63	21.72	22.00
Conducted Power (Watts)	0.1396	0.1496	0.1552	0.1426	0.1578	0.1603	0.1455	0.1486	0.1585
EIRP(dBm)	20.22	20.52	20.68	20.31	20.75	20.82	20.40	20.49	20.77
EIRP(Watts)	0.1052	0.1127	0.1169	0.1074	0.1189	0.1208	0.1096	0.1119	0.1194

LTE Band 12 (GT - LC = -6.10 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	22.92	23.04	23.13	23.04	23.13	23.19	23.03	23.10	23.15
Conducted Power (Watts)	0.1959	0.2014	0.2056	0.2014	0.2056	0.2084	0.2009	0.2042	0.2065
ERP(dBm)	14.67	14.79	14.88	14.79	14.88	14.94	14.78	14.85	14.90
ERP(Watts)	0.0293	0.0301	0.0308	0.0301	0.0308	0.0312	0.0301	0.0305	0.0309

LTE Band 12 (GT - LC = -6.10 dB) QPSK			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	23.09	23.20	23.00
Conducted Power (Watts)	0.2037	0.2089	0.1995
ERP(dBm)	14.84	14.95	14.75
ERP(Watts)	0.0305	0.0313	0.0299

LTE Band 12 (GT - LC = -6.10 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	22.16	22.25	22.28	22.25	22.36	22.41	22.27	22.30	22.39
Conducted Power (Watts)	0.1644	0.1679	0.1690	0.1679	0.1722	0.1742	0.1687	0.1698	0.1734
ERP(dBm)	13.91	14.00	14.03	14.00	14.11	14.16	14.02	14.05	14.14
ERP(Watts)	0.0246	0.0251	0.0253	0.0251	0.0258	0.0261	0.0252	0.0254	0.0259

LTE Band 12 (GT - LC = -6.10 dB) 16QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	22.42	22.31	22.25
Conducted Power (Watts)	0.1746	0.1702	0.1679
ERP(dBm)	14.17	14.06	14.00
ERP(Watts)	0.0261	0.0255	0.0251

LTE Band 12 (GT - LC = -6.10 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	21.16	21.26	21.33	21.22	21.29	21.37	21.25	21.30	21.31
Conducted Power (Watts)	0.1306	0.1337	0.1358	0.1324	0.1346	0.1371	0.1334	0.1349	0.1352
ERP(dBm)	12.91	13.01	13.08	12.97	13.04	13.12	13.00	13.05	13.06
ERP(Watts)	0.0195	0.0200	0.0203	0.0198	0.0201	0.0205	0.0200	0.0202	0.0202

LTE Band 12 (GT - LC = -6.10 dB) 64QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	21.37	21.24	21.22
Conducted Power (Watts)	0.1371	0.1330	0.1324
ERP(dBm)	13.12	12.99	12.97
ERP(Watts)	0.0205	0.0199	0.0198

LTE Band 38 (GT - LC = -1.49 dB) QPSK			
Bandwidth	**5M**		
Channel	**37775**	**38000**	**38225**
	(Low)	**(Mid)**	**(High)**
Frequency (MHz)	**2572.5**	**2595**	**2617.5**
Conducted Power (dBm)	23.57	23.47	23.47
Conducted Power (Watts)	0.2275	0.2223	0.2223
EIRP(dBm)	22.08	21.98	21.98
EIRP(Watts)	0.1614	0.1578	0.1578

LTE Band 38 (GT - LC = -1.49 dB) QPSK									
Bandwidth	**10M**			**15M**			**20M**		
Channel	**37800**	**38000**	**38200**	**37825**	**38000**	**38175**	**37850**	**38000**	**38150**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(Mid)**
Frequency (MHz)	**2575**	**2595**	**2615**	**2577.5**	**2595**	**2612.5**	**2580**	**2595**	**2610**
Conducted Power (dBm)	23.63	23.53	23.53	23.80	23.77	23.74	23.73	23.81	23.76
Conducted Power (Watts)	0.2307	0.2254	0.2254	0.2399	0.2382	0.2366	0.2360	0.2404	0.2377
EIRP(dBm)	22.14	22.04	22.04	22.31	22.28	22.25	22.24	22.32	22.27
EIRP(Watts)	0.1637	0.1600	0.1600	0.1702	0.1690	0.1679	0.1675	0.1706	0.1687

LTE Band 38 (GT - LC = -1.49 dB) 16QAM			
Bandwidth	**5M**		
Channel	**37775**	**38000**	**38225**
	(Low)	**(Mid)**	**(High)**
Frequency (MHz)	**2572.5**	**2595**	**2617.5**
Conducted Power (dBm)	22.88	22.81	22.86
Conducted Power (Watts)	0.1941	0.1910	0.1932
EIRP(dBm)	21.39	21.32	21.37
EIRP(Watts)	0.1377	0.1355	0.1371

LTE Band 38 (GT - LC = -1.49 dB) 16QAM									
Bandwidth	**10M**			**15M**			**20M**		
Channel	**37800**	**38000**	**38200**	**37825**	**38000**	**38175**	**37850**	**38000**	**38150**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(Mid)**
Frequency (MHz)	**2575**	**2595**	**2615**	**2577.5**	**2595**	**2612.5**	**2580**	**2595**	**2610**
Conducted Power (dBm)	22.69	22.61	22.59	22.85	22.78	22.83	21.90	21.86	21.86
Conducted Power (Watts)	0.1858	0.1824	0.1816	0.1928	0.1897	0.1919	0.1549	0.1535	0.1535
EIRP(dBm)	21.20	21.12	21.10	21.36	21.29	21.34	20.41	20.37	20.37
EIRP(Watts)	0.1318	0.1294	0.1288	0.1368	0.1346	0.1361	0.1099	0.1089	0.1089

LTE Band 38 (GT - LC = -1.49 dB) 64QAM			
Bandwidth	**5M**		
Channel	**37775**	**38000**	**38225**
	(Low)	**(Mid)**	**(High)**
Frequency (MHz)	**2572.5**	**2595**	**2617.5**
Conducted Power (dBm)	21.48	21.42	21.46
Conducted Power (Watts)	0.1406	0.1387	0.1400
EIRP(dBm)	19.99	19.93	19.97
EIRP(Watts)	0.0998	0.0984	0.0993

LTE Band 38 (GT - LC = -1.49 dB) 64QAM									
Bandwidth	**10M**			**15M**			**20M**		
Channel	**37800**	**38000**	**38200**	**37825**	**38000**	**38175**	**37850**	**38000**	**38150**
	(Low)	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(Mid)**
Frequency (MHz)	**2575**	**2595**	**2615**	**2577.5**	**2595**	**2612.5**	**2580**	**2595**	**2610**
Conducted Power (dBm)	21.45	21.36	21.33	21.60	21.48	21.50	21.63	21.55	21.58
Conducted Power (Watts)	0.1396	0.1368	0.1358	0.1445	0.1406	0.1413	0.1455	0.1429	0.1439
EIRP(dBm)	19.96	19.87	19.84	20.11	19.99	20.01	20.14	20.06	20.09
EIRP(Watts)	0.0991	0.0971	0.0964	0.1026	0.0998	0.1002	0.1033	0.1014	0.1021

CA EIRP

LTE Band 7 CA (GT - LC = -1.23 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)	24.48	24.34	24.41	24.38	24.46	24.44	24.42	24.47	24.35
Conducted Power (Watts)	0.2805	0.2716	0.2761	0.2742	0.2793	0.2780	0.2767	0.2799	0.2723
EIRP(dBm)	23.25	23.11	23.18	23.15	23.23	23.21	23.19	23.24	23.12
EIRP(Watts)	0.2113	0.2046	0.2080	0.2065	0.2104	0.2094	0.2084	0.2109	0.2051

LTE Band 7 CA (GT - LC = -1.23 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)	24.49	24.45	24.41	24.35	24.45	22.62	24.47	24.41	24.4
Conducted Power (Watts)	0.2812	0.2786	0.2761	0.2723	0.2786	0.1828	0.2799	0.2761	0.2754
EIRP(dBm)	23.26	23.22	23.18	23.12	23.22	21.39	23.24	23.18	23.17
EIRP(Watts)	0.2118	0.2099	0.2080	0.2051	0.2099	0.1377	0.2109	0.2080	0.2075

LTE Band 7 CA (GT - LC = -1.23 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)	23.84	23.57	23.25	23.80	23.53	23.67	23.76	23.65	23.94
Conducted Power (Watts)	0.2421	0.2275	0.2113	0.2399	0.2254	0.2328	0.2377	0.2317	0.2477
EIRP(dBm)	22.61	22.34	22.02	22.57	22.30	22.44	22.53	22.42	22.71
EIRP(Watts)	0.1824	0.1714	0.1592	0.1807	0.1698	0.1754	0.1791	0.1746	0.1866

LTE Band 7 CA (GT - LC = -1.23 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)	23.95	23.78	23.85	21.67	23.73	21.54	23.71	23.7	23.65
Conducted Power (Watts)	0.2483	0.2388	0.2427	0.1469	0.2360	0.1426	0.2350	0.2344	0.2317
EIRP(dBm)	22.72	22.55	22.62	20.44	22.50	20.31	22.48	22.47	22.42
EIRP(Watts)	0.1871	0.1799	0.1828	0.1107	0.1778	0.1074	0.1770	0.1766	0.1746

LTE Band 7 CA (GT - LC = -1.23 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)	21.99	21.64	21.65	21.85	21.67	21.69	21.75	21.59	21.96
Conducted Power (Watts)	0.1581	0.1459	0.1462	0.1531	0.1469	0.1476	0.1496	0.1442	0.1570
EIRP(dBm)	20.76	20.41	20.42	20.62	20.44	20.46	20.52	20.36	20.73
EIRP(Watts)	0.1191	0.1099	0.1102	0.1153	0.1107	0.1112	0.1127	0.1086	0.1183

LTE Band 7 CA (GT - LC = -1.23 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)	21.97	21.66	21.70	21.77	21.54	21.59	23.24	23.15	22.25
Conducted Power (Watts)	0.1574	0.1466	0.1479	0.1503	0.1426	0.1442	0.2109	0.2065	0.1679
EIRP(dBm)	20.74	20.43	20.47	20.54	20.31	20.36	22.01	21.92	21.02
EIRP(Watts)	0.1186	0.1104	0.1114	0.1132	0.1074	0.1086	0.1589	0.1556	0.1265

LTE Band 7 CA (GT - LC = -1.23 dB) QPSK			
Bandwidth	15M + 10M		
Channel PCC	20825	21025	21225
	(Low)	(Mid)	(High)
Channel SCC	20975	21175	21375
	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.90	24.14	24.26
Conducted Power (Watts)	0.2455	0.2594	0.2667
EIRP(dBm)	22.67	22.91	23.03
EIRP(Watts)	0.1849	0.1954	0.2009

LTE Band 7 CA (GT - LC = -1.23 dB) 16QAM			
Bandwidth	15M + 10M		
Channel PCC	20825	21025	21225
	(Low)	(Mid)	(High)
Channel SCC	20975	21175	21375
	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.21	23.27	23.45
Conducted Power (Watts)	0.2094	0.2123	0.2213
EIRP(dBm)	21.98	22.04	22.22
EIRP(Watts)	0.1578	0.1600	0.1667

LTE Band 7 CA (GT - LC = -1.23 dB) 64QAM			
Bandwidth	15M + 10M		
Channel PCC	20825	21025	21225
	(Low)	(Mid)	(High)
Channel SCC	20975	21175	21375
	(Low)	(Mid)	(High)
Conducted Power (dBm)	21.60	21.38	22.41
Conducted Power (Watts)	0.1445	0.1374	0.1742
EIRP(dBm)	20.37	20.15	21.18
EIRP(Watts)	0.1089	0.1035	0.1312

LTE Band 38 CA (GT - LC = -1.49 dB) QPSK						
Bandwidth	15M + 15M			20M+20M		
Channel PCC	37825	37925	38025	37850	37901	37952
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	37975	38075	38175	38048	38099	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	23.08	23.95	23.48	23.88	23.96	23.96
Conducted Power (Watts)	0.2032	0.2483	0.2228	0.2443	0.2489	0.2489
EIRP(dBm)	21.59	22.46	21.99	22.39	22.47	22.47
EIRP(Watts)	0.1442	0.1762	0.1581	0.1734	0.1766	0.1766

LTE Band 38 CA (GT - LC = -1.49 dB) 16QAM						
Bandwidth	15M + 15M			20M+20M		
Channel PCC	37825	37925	38025	37850	37901	37952
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	37975	38075	38175	38048	38099	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.92	22.85	22.79	23.05	22.89	23.02
Conducted Power (Watts)	0.1959	0.1928	0.1901	0.2018	0.1945	0.2004
EIRP(dBm)	21.43	21.36	21.30	21.56	21.40	21.53
EIRP(Watts)	0.1390	0.1368	0.1349	0.1432	0.1380	0.1422

LTE Band 38 CA (GT - LC = -1.49 dB) 64QAM						
Bandwidth	15M + 15M			20M+20M		
Channel PCC	37825	37925	38025	37850	37901	37952
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	37975	38075	38175	38048	38099	38150
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	20.78	20.91	20.78	22.07	22.02	22.17
Conducted Power (Watts)	0.1197	0.1233	0.1197	0.1611	0.1592	0.1648
EIRP(dBm)	19.29	19.42	19.29	20.58	20.53	20.68
EIRP(Watts)	0.0849	0.0875	0.0849	0.1143	0.1130	0.1169

Peak-to-Average Ratio

Mode	LTE Band 2 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.13	4.49	3.86	5.45	PASS
Middle CH	3.33	4.46	4.12	5.48	
Highest CH	3.45	4.55	3.77	5.62	

Mod.	64QAM		Limit: 13dB
RB Size	1RB	Full RB	Result
Lowest CH	3.83	6.20	PASS
Middle CH	4.90	6.20	
Highest CH	4.81	6.17	

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.42	4.49	4.26	5.33	PASS
Middle CH	3.57	4.35	4.35	5.54	
Highest CH	3.45	4.41	4.35	5.3	

Mod.	64QAM		Limit: 13dB
RB Size	1RB	Full RB	Result
Lowest CH	5.16	6.09	PASS
Middle CH	5.62	6.14	
Highest CH	5.42	6.03	

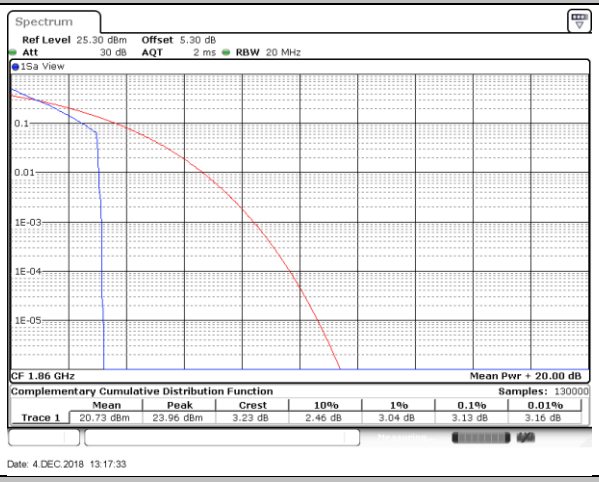
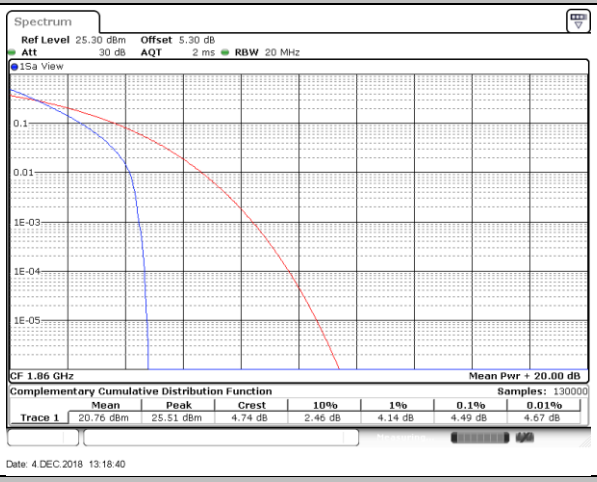
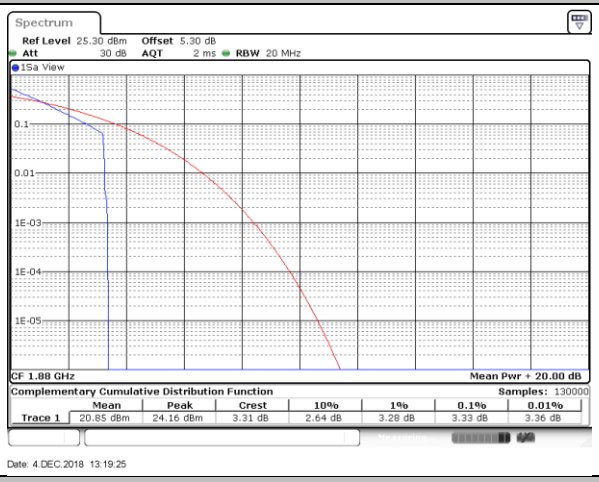
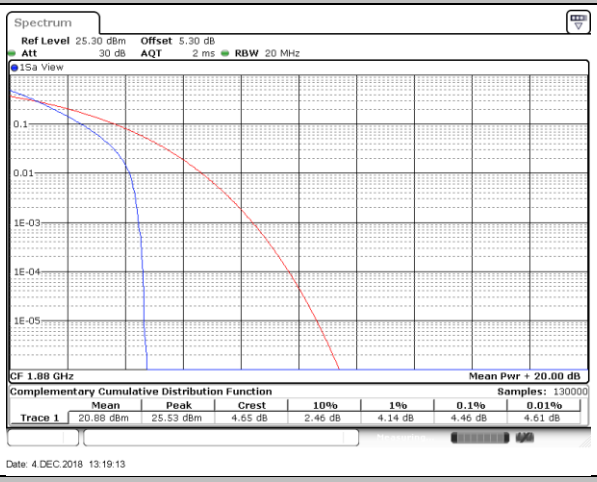
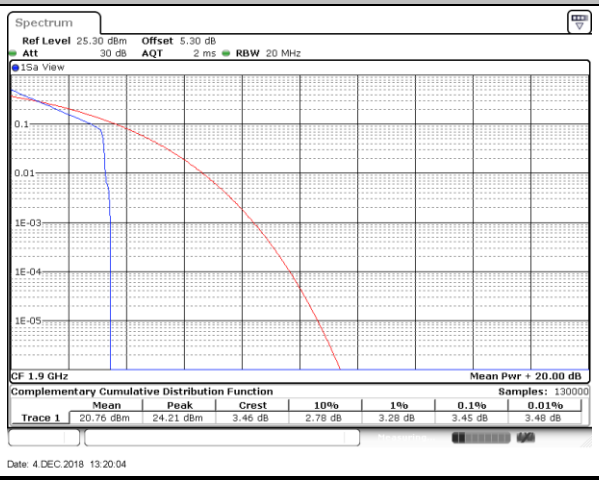
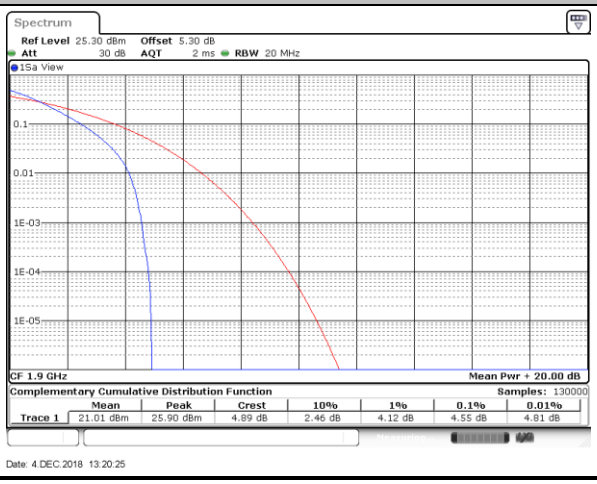
Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.30	4.35	4.29	5.36	PASS
Middle CH	3.33	4.32	4.32	5.36	
Highest CH	3.30	4.35	4.12	5.42	

Mod.	64QAM		Limit: 13dB
RB Size	1RB	Full RB	Result
Lowest CH	4.93	5.97	PASS
Middle CH	4.87	6.03	
Highest CH	5.01	6.17	

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.54	4.52	4.20	5.45	PASS
Middle CH	3.57	4.49	4.49	5.39	
Highest CH	3.71	4.46	4.75	5.39	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.30	6.12	PASS		
Middle CH	5.25	6.06			
Highest CH	6.00	6.06			

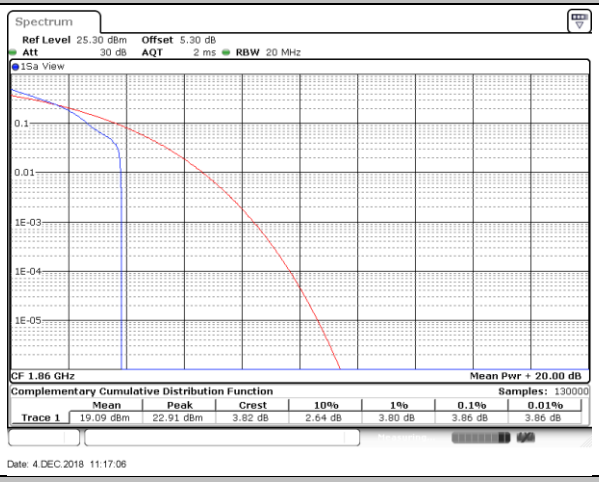
Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.3	4.41	3.77	5.42	PASS
Middle CH	3.22	4.43	3.77	5.36	
Highest CH	3.3	4.26	3.94	5.33	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	4.67	5.94	PASS		
Middle CH	4.55	6.12			
Highest CH	4.81	6.09			

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.41	5.91	4.32	6.52	PASS
Middle CH	3.39	4.52	4.55	6.61	
Highest CH	4.58	5.04	4.70	5.94	
Mod.	64QAM		Limit: 13dB		
RB Size	1RB	Full RB	Result		
Lowest CH	5.13	6.52	PASS		
Middle CH	6.90	6.20			
Highest CH	5.54	6.43			

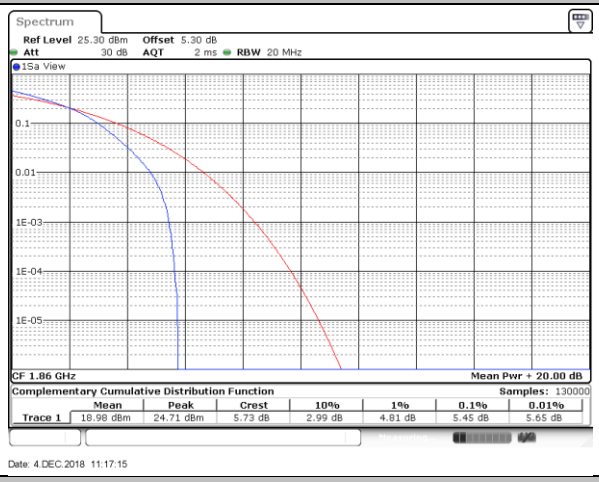
LTE Band 2 / 20MHz / QPSK	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

LTE Band 2 / 20MHz / 16QAM

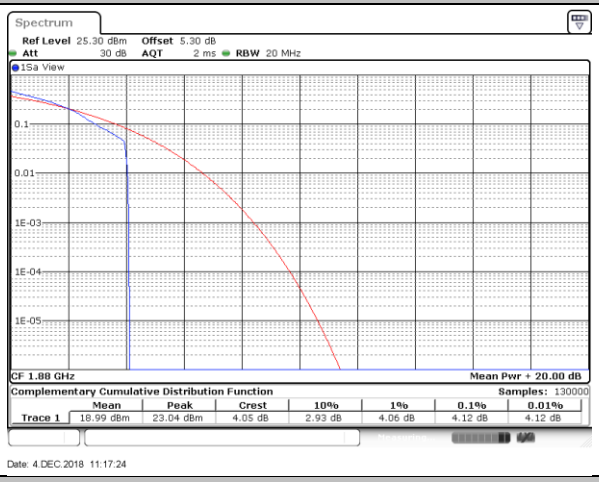
Lowest Channel / 1RB



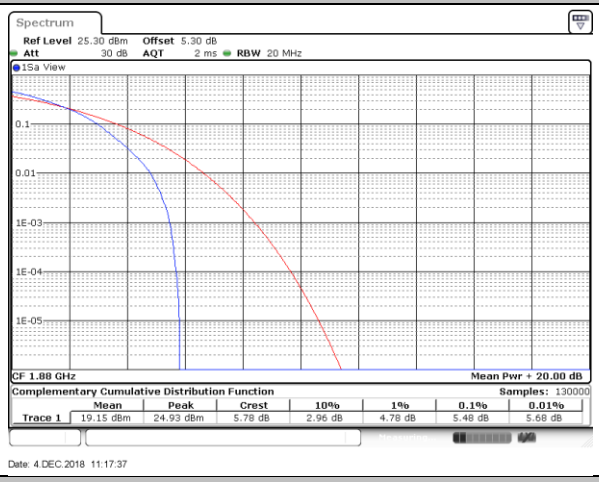
Lowest Channel / Full RB



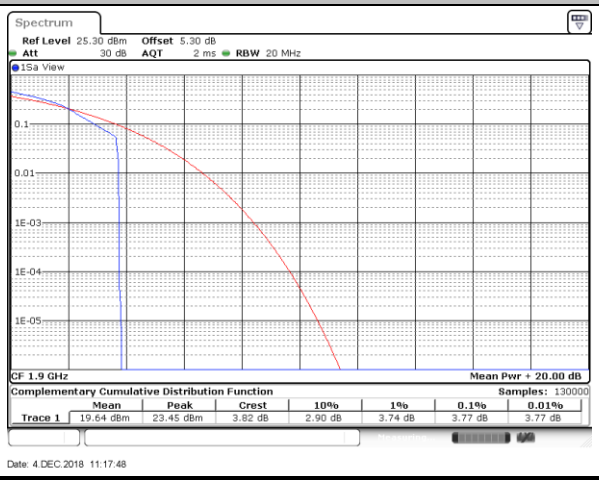
Middle Channel / 1RB



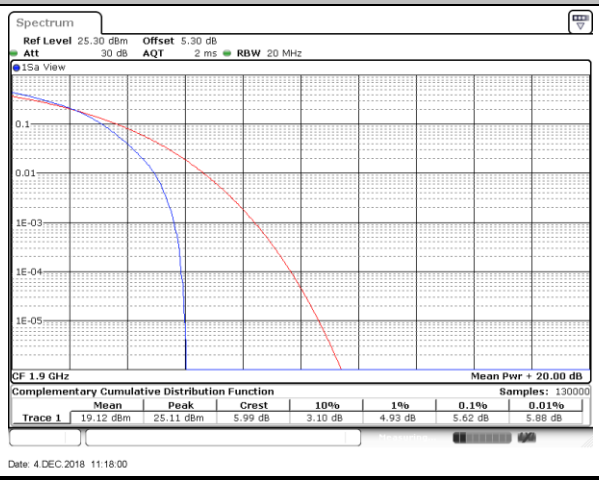
Middle Channel / Full RB



Highest Channel / 1RB

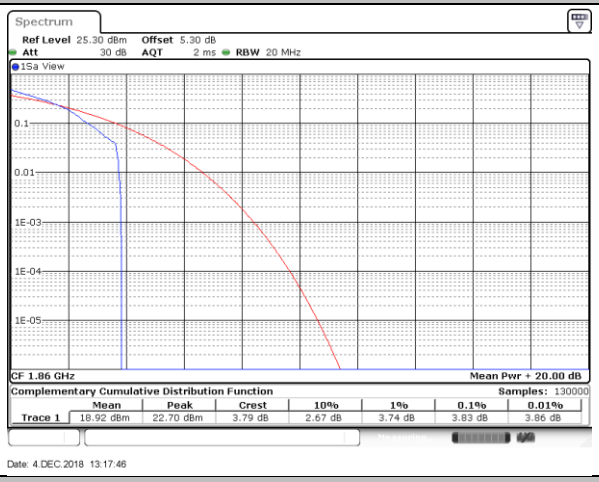


Highest Channel / Full RB

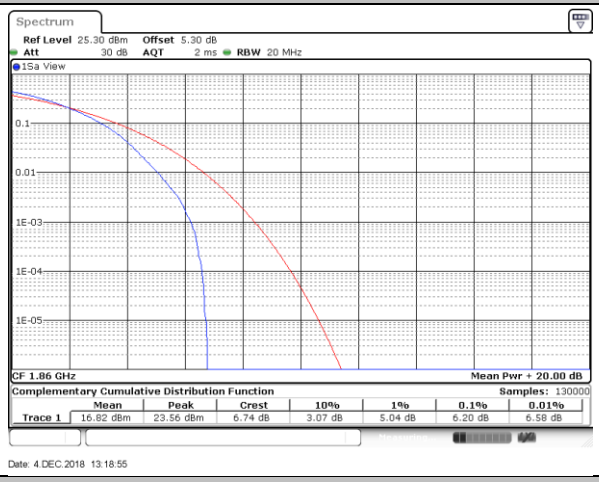


LTE Band 2 / 20MHz / 64QAM

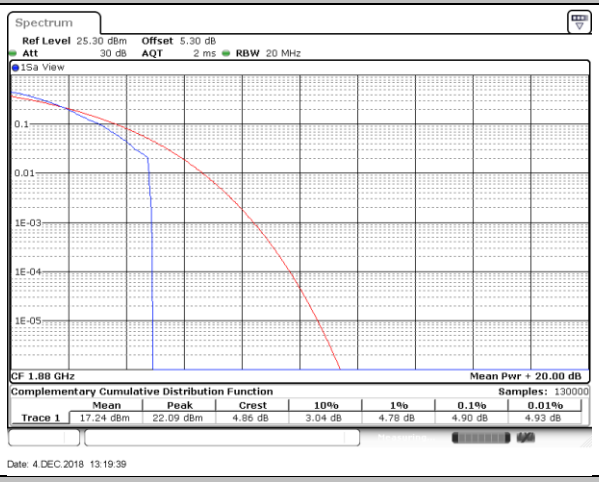
Lowest Channel / 1RB



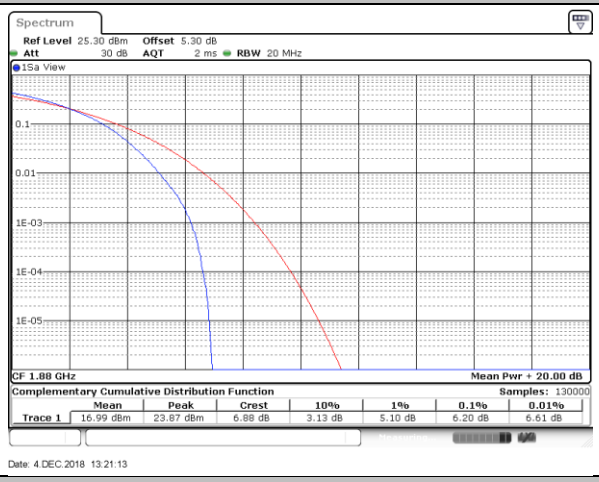
Lowest Channel / Full RB



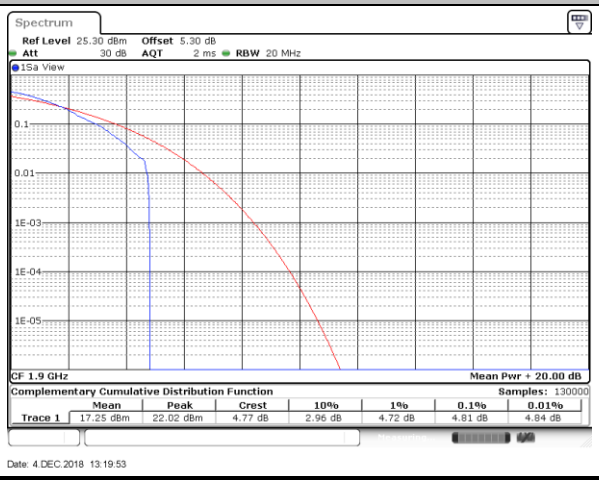
Middle Channel / 1RB



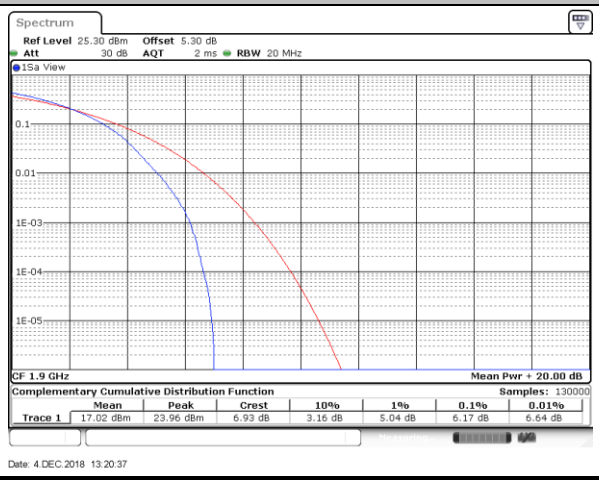
Middle Channel / Full RB

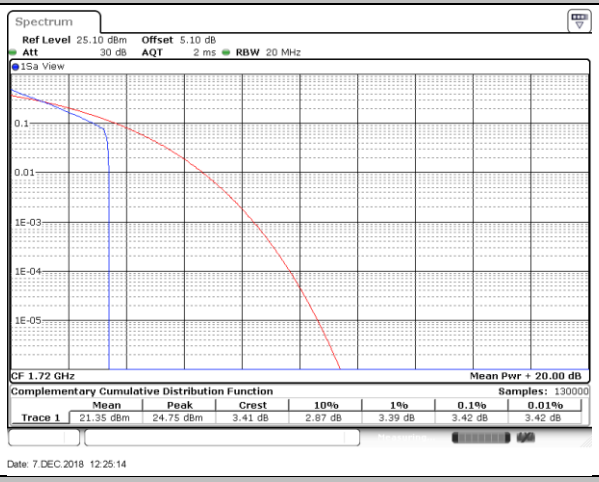
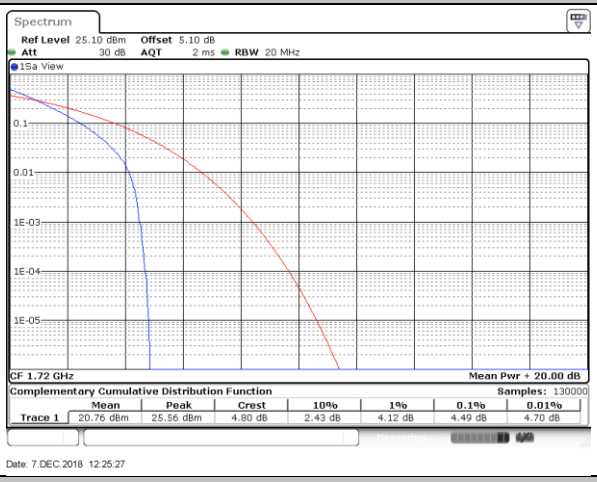
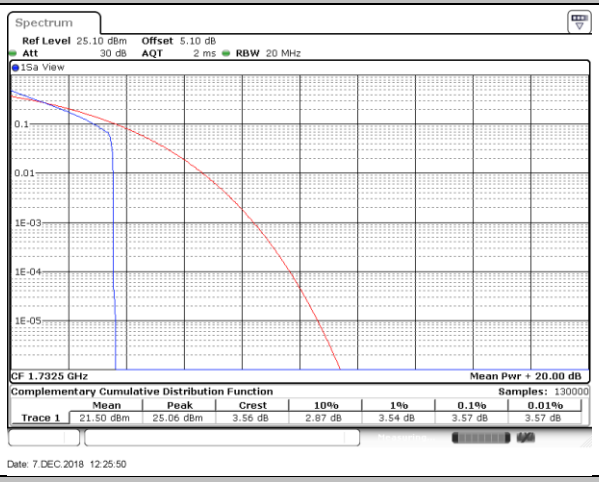
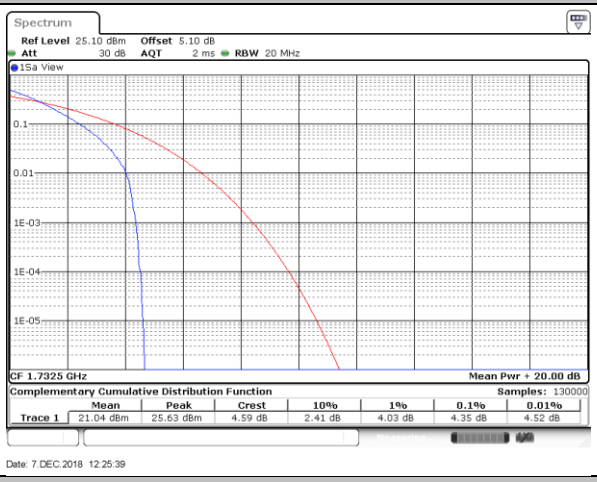
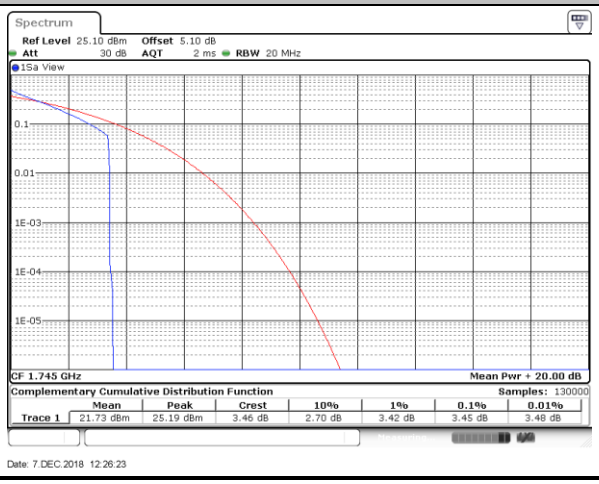
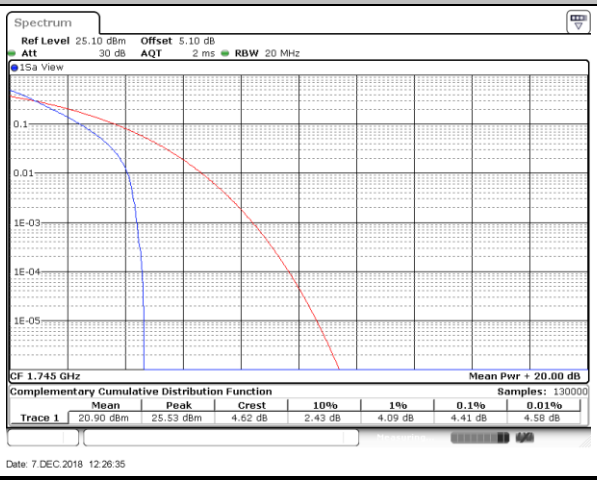


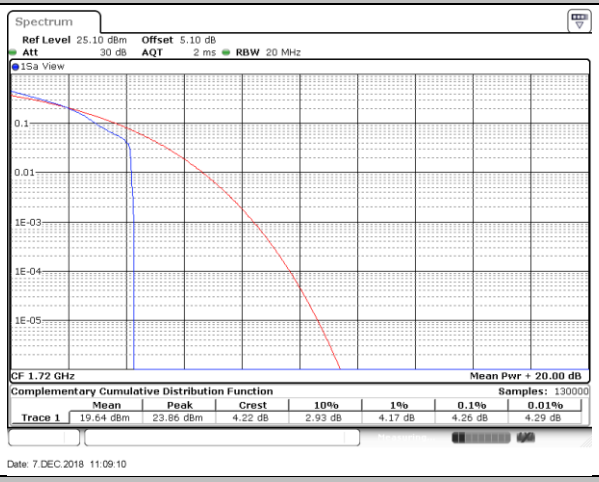
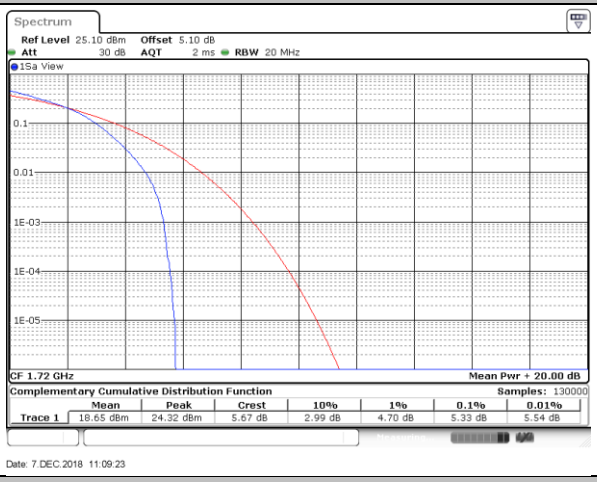
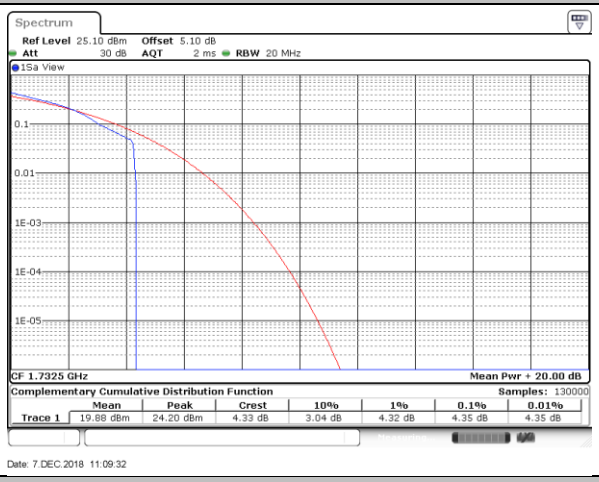
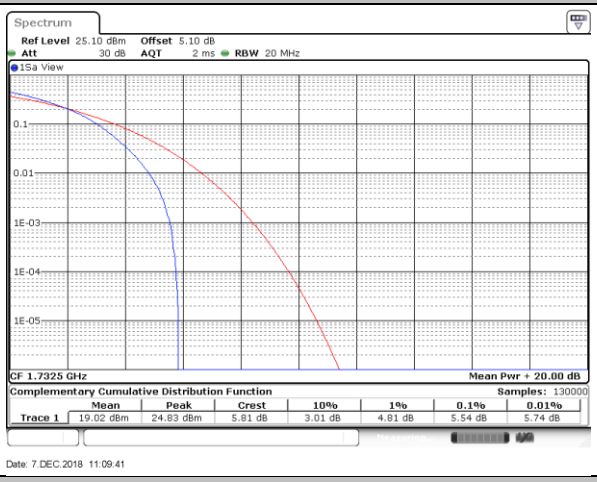
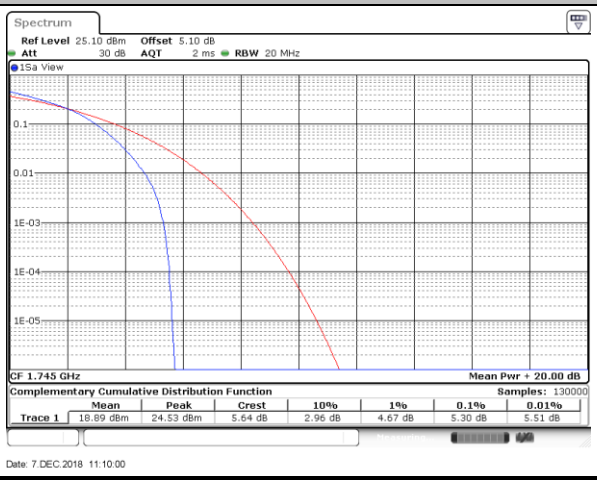
Highest Channel / 1RB

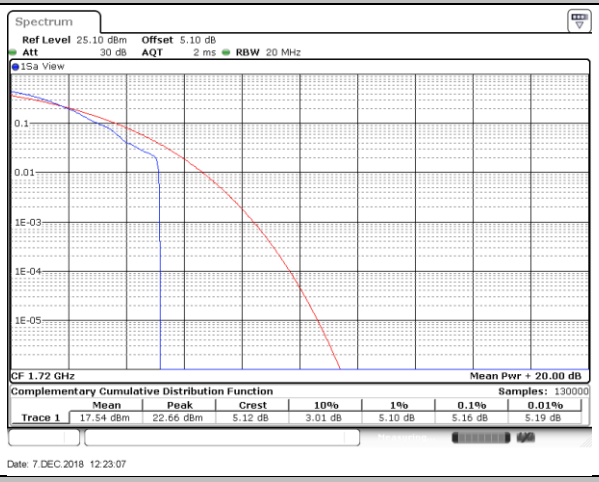
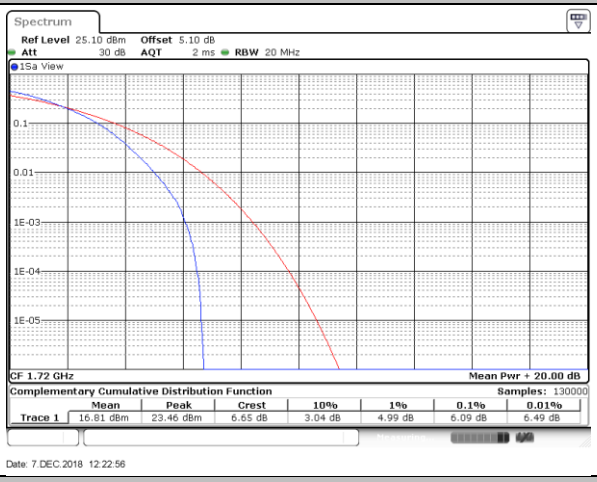
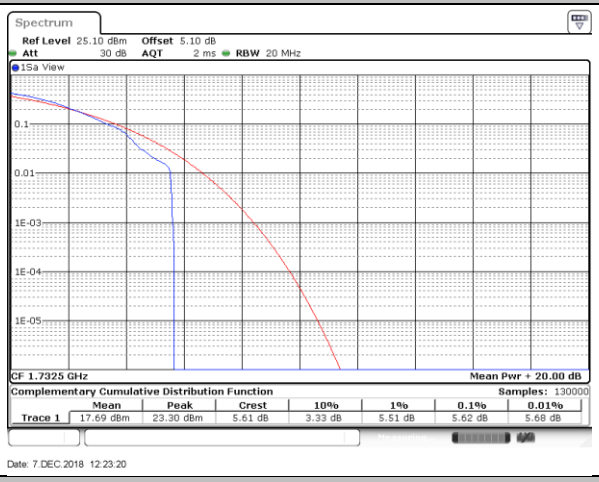
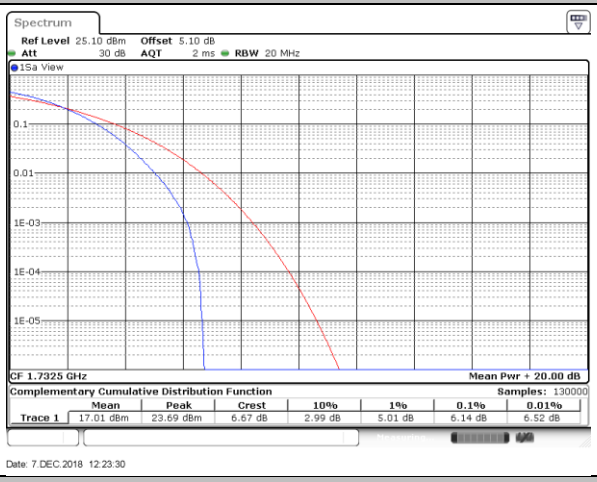
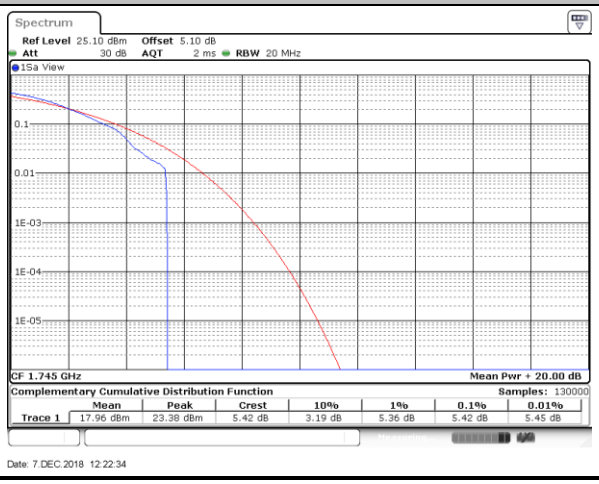
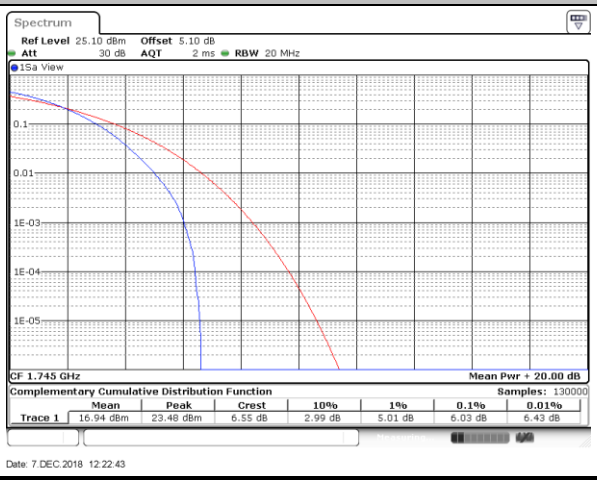


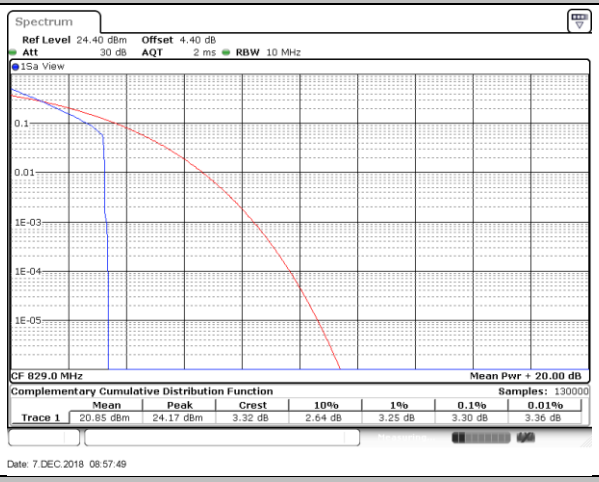
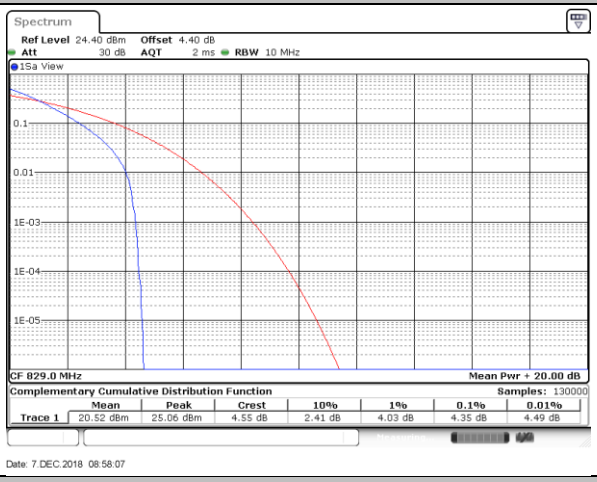
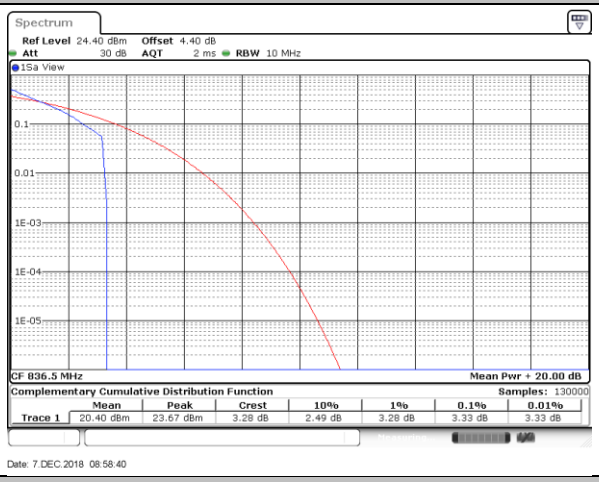
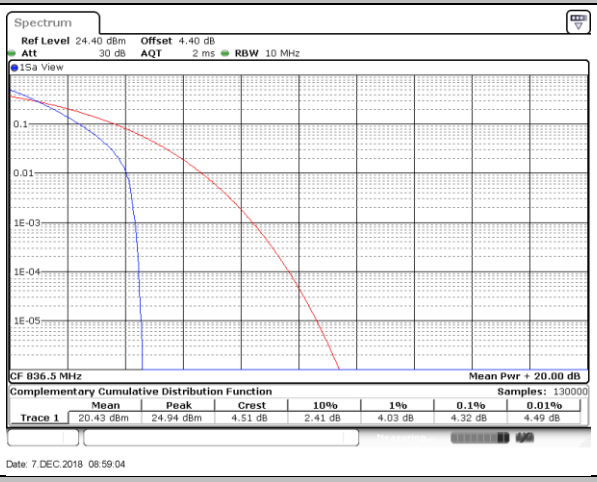
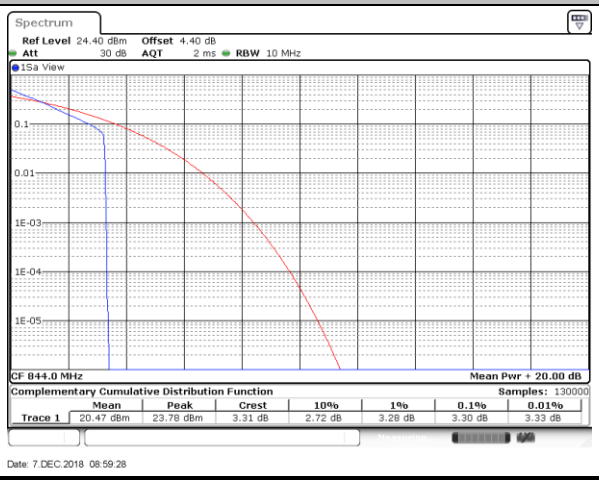
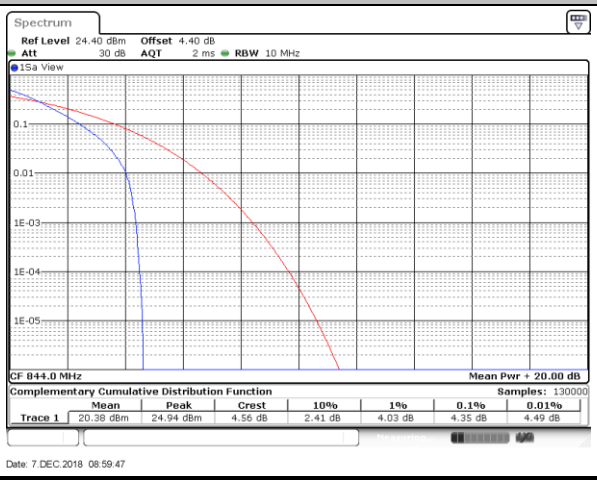
Highest Channel / Full RB

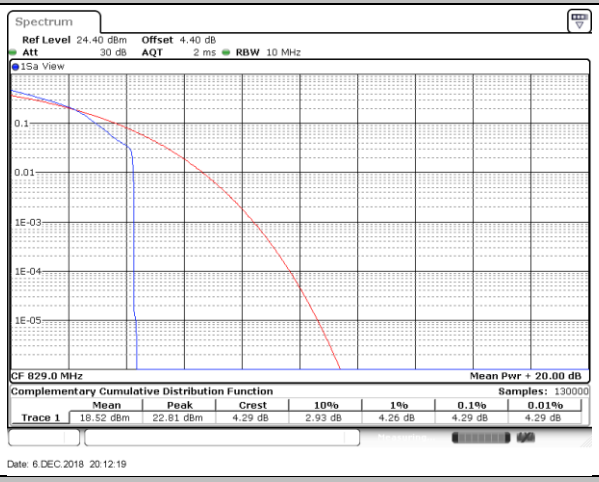
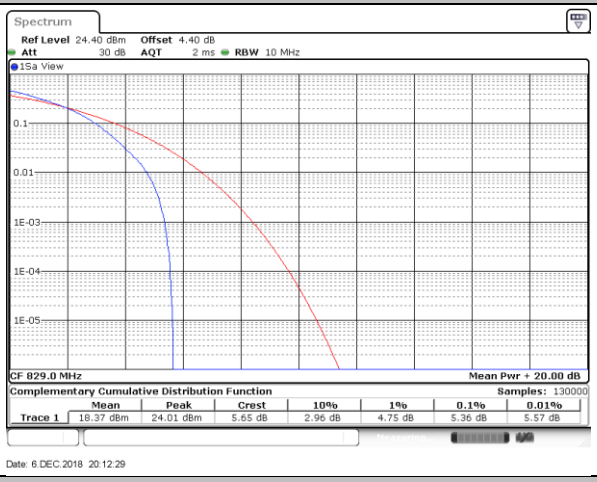
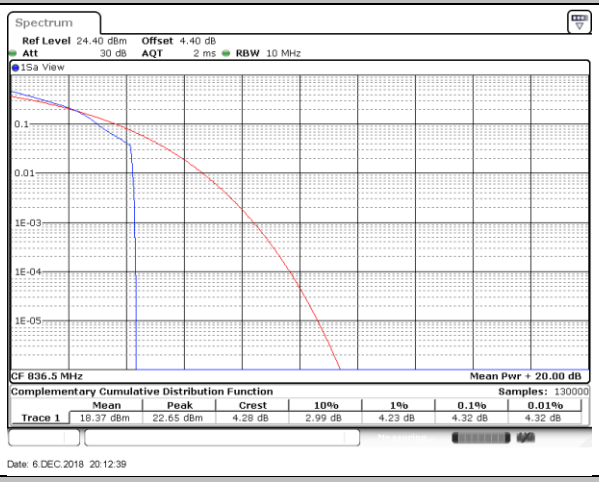
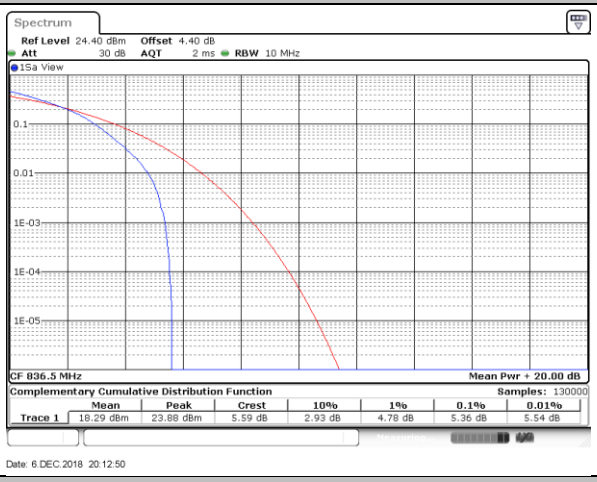
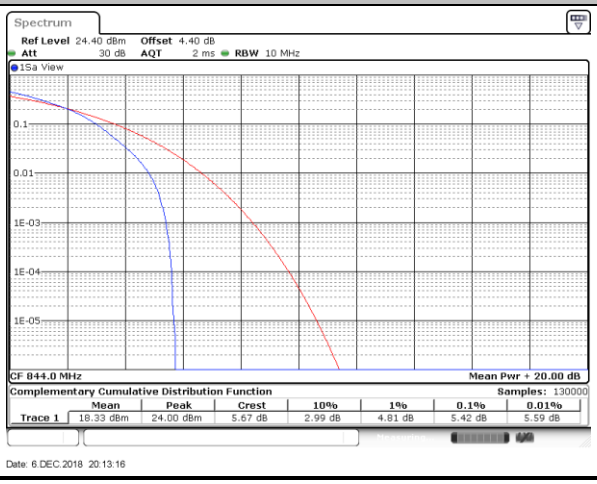


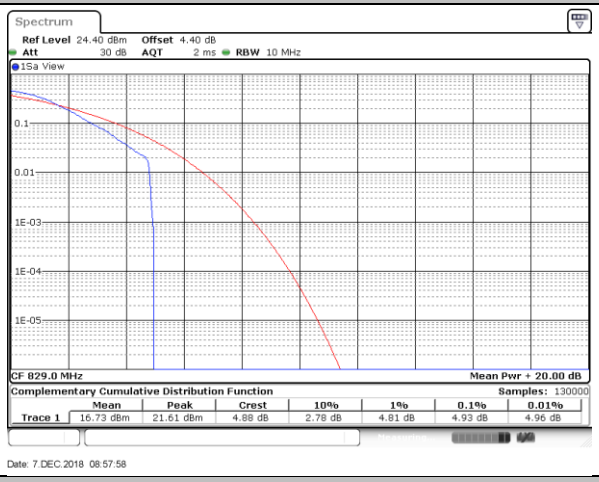
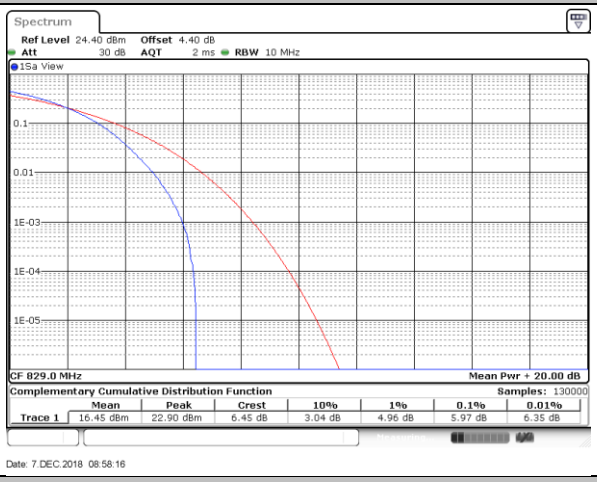
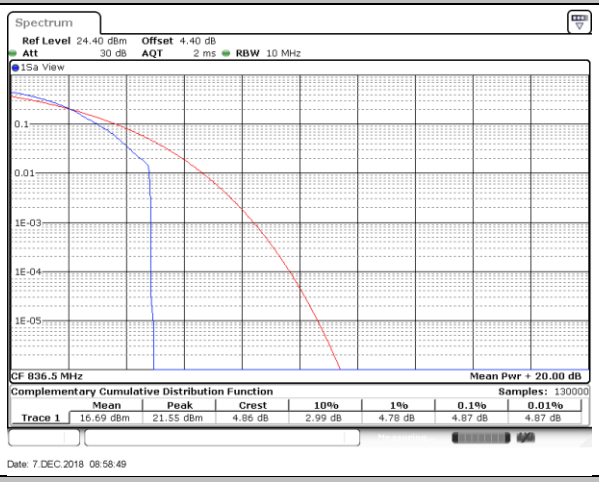
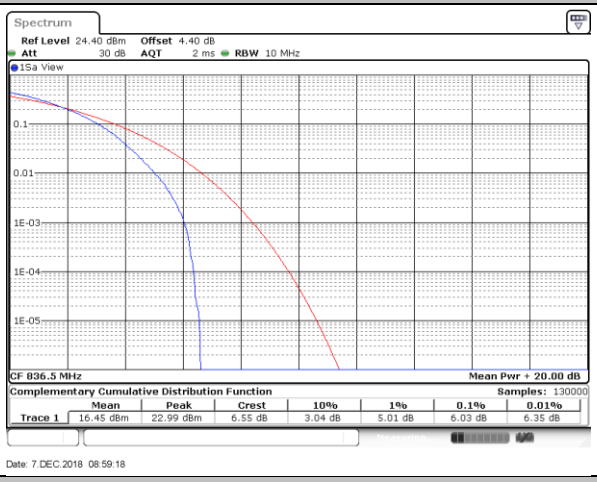
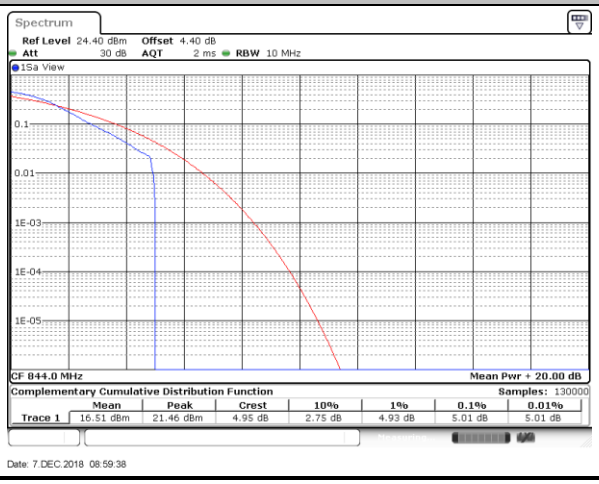
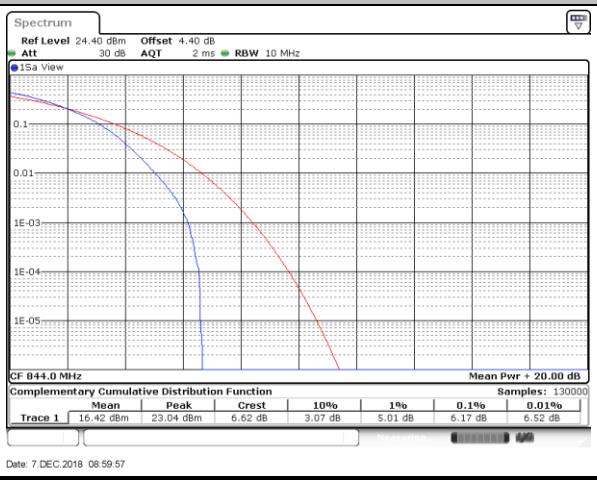
LTE Band 4 / 20MHz / QPSK	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

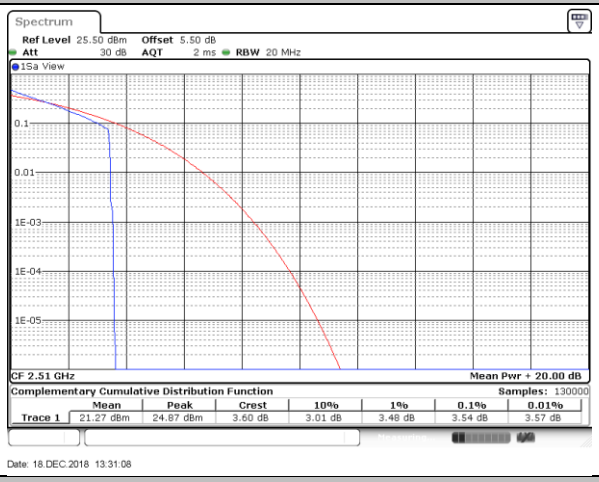
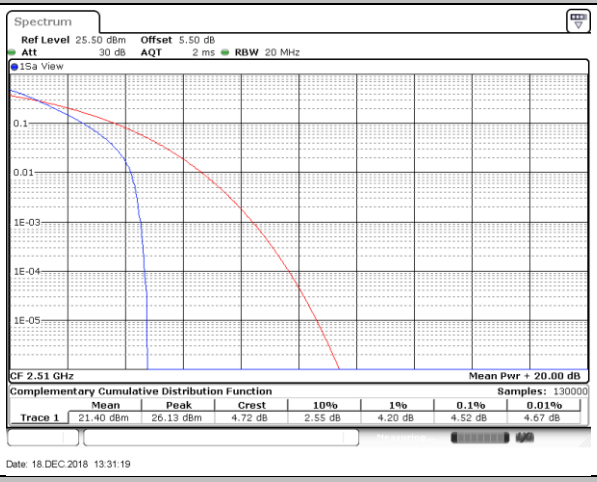
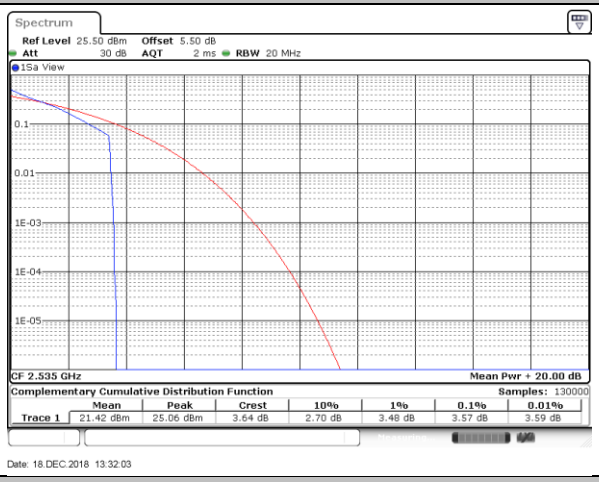
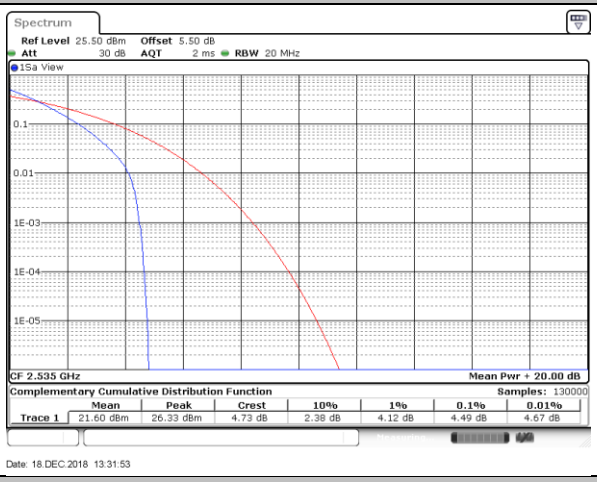
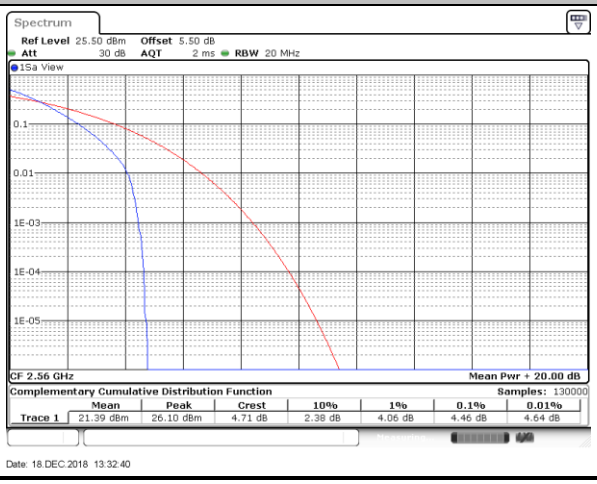
LTE Band 4 / 20MHz / 16QAM	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

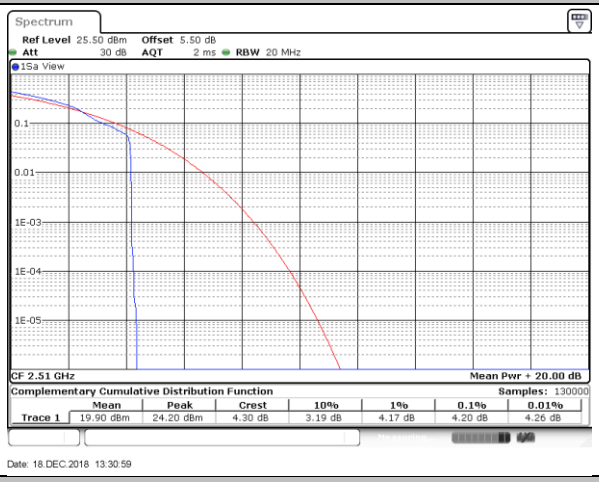
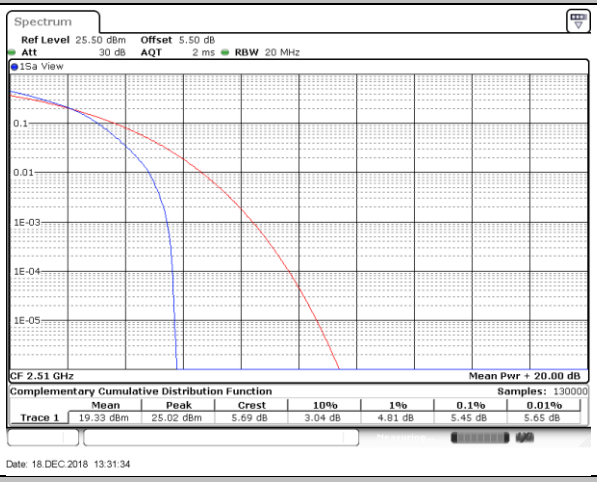
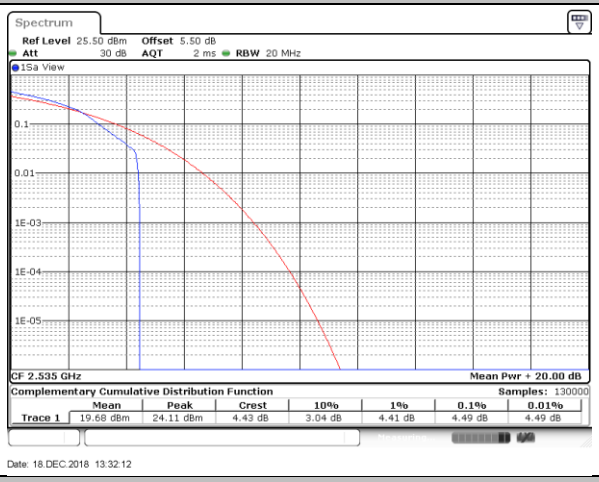
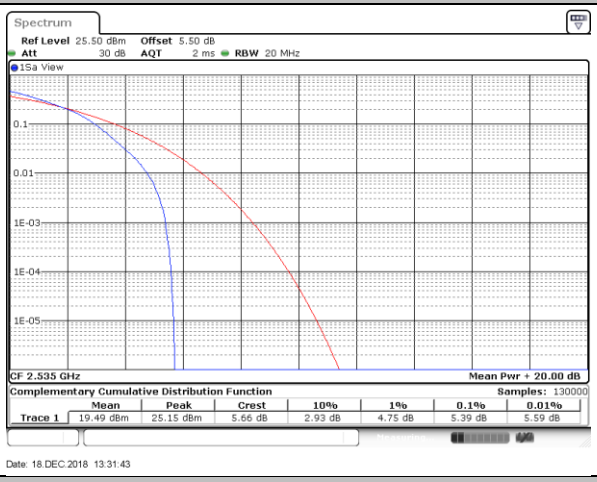
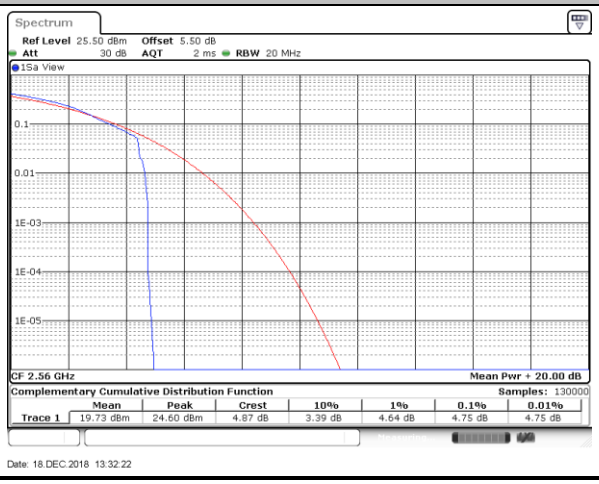
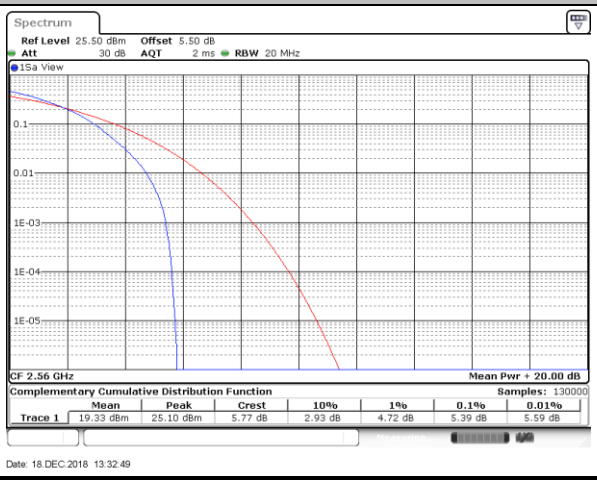
LTE Band 4 / 20MHz / 64QAM	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

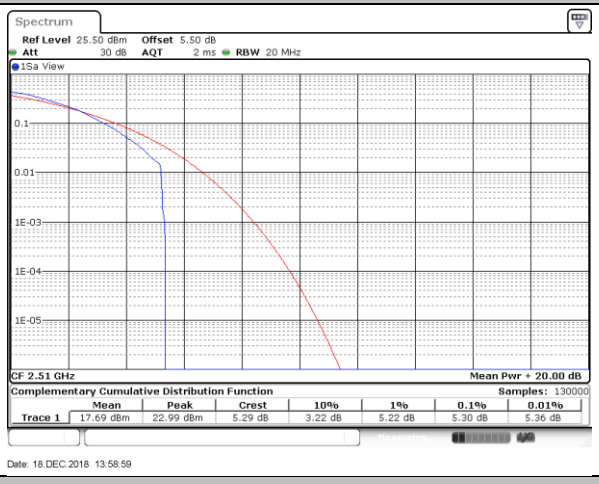
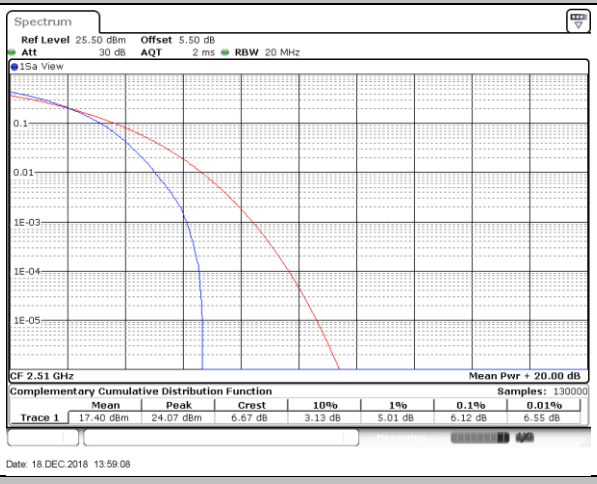
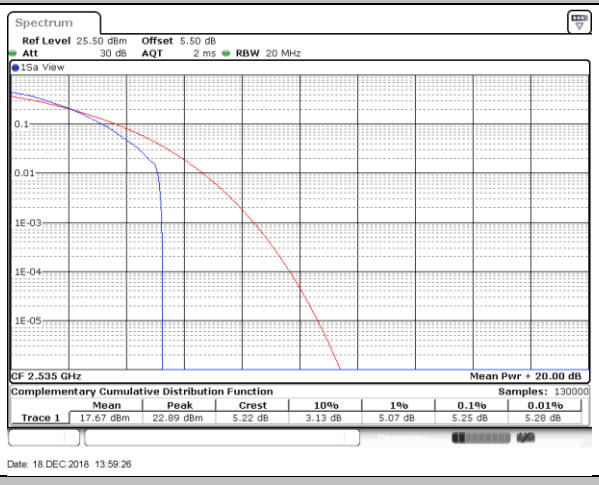
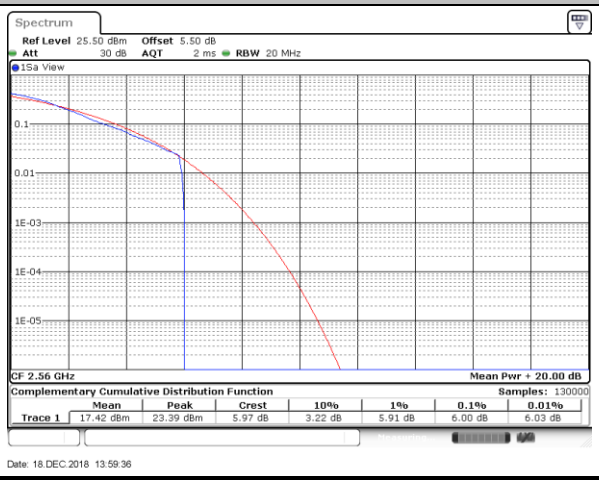
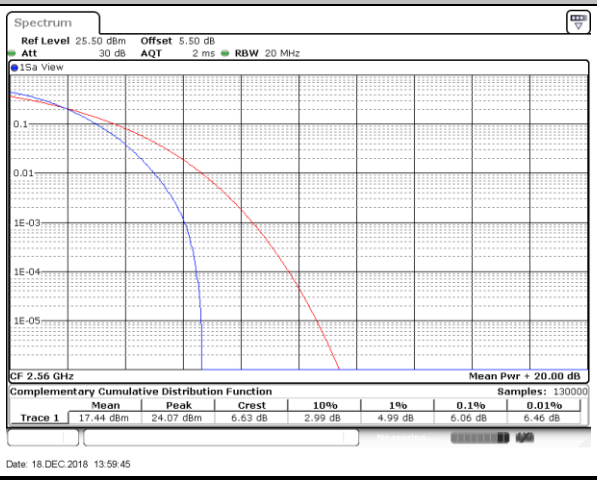
LTE Band 5 / 10MHz / QPSK	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

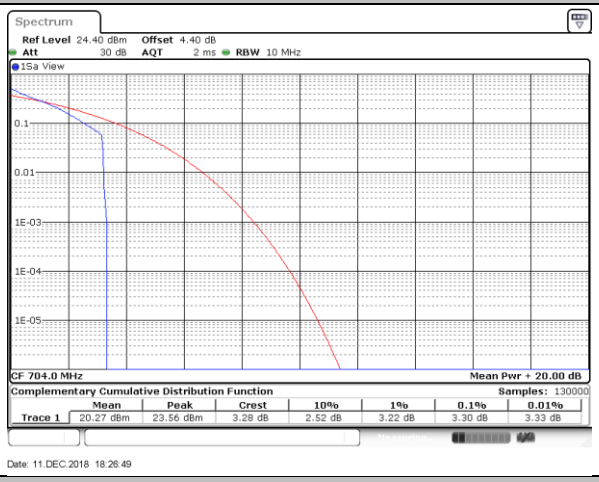
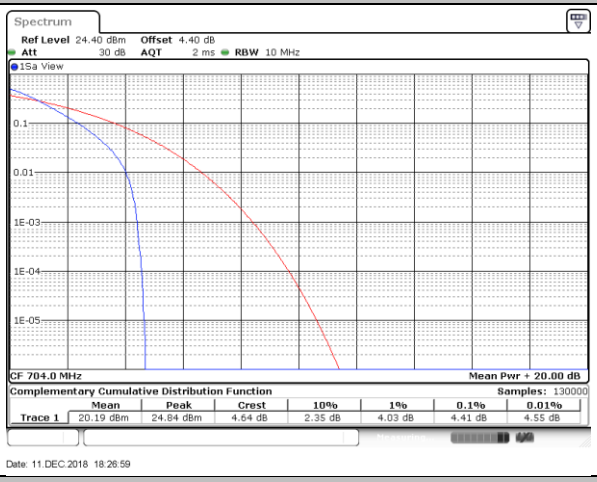
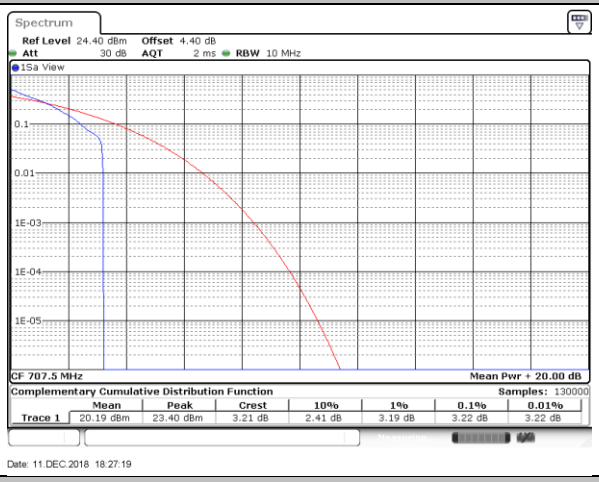
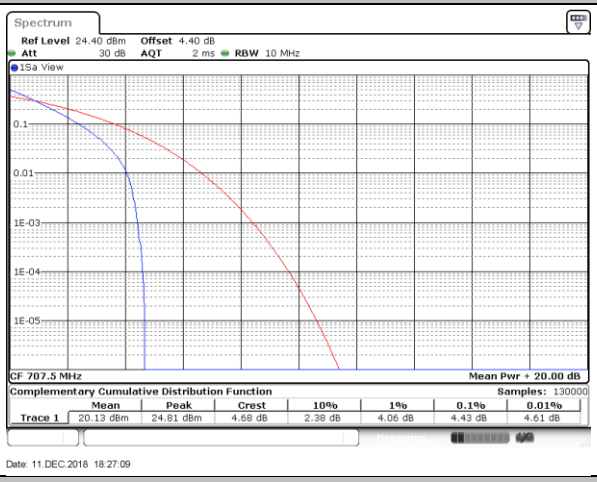
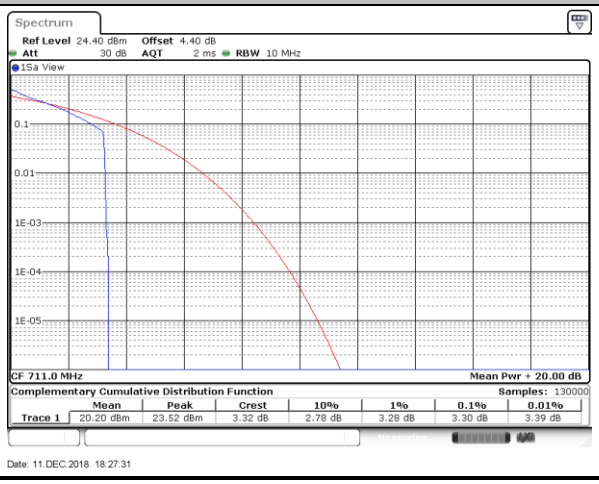
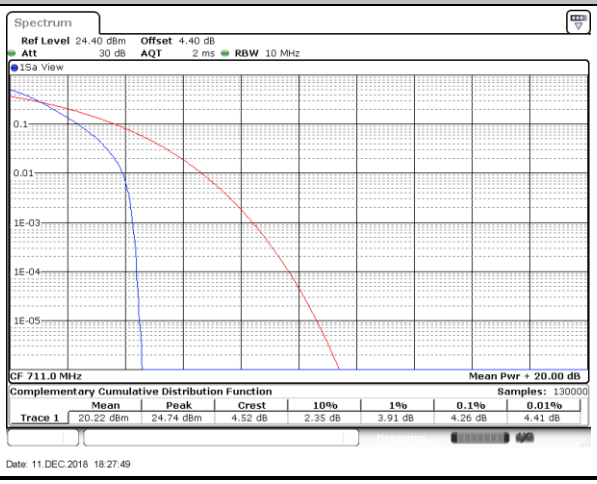
LTE Band 5 / 10MHz / 16QAM	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

LTE Band 5 / 10MHz / 64QAM	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

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

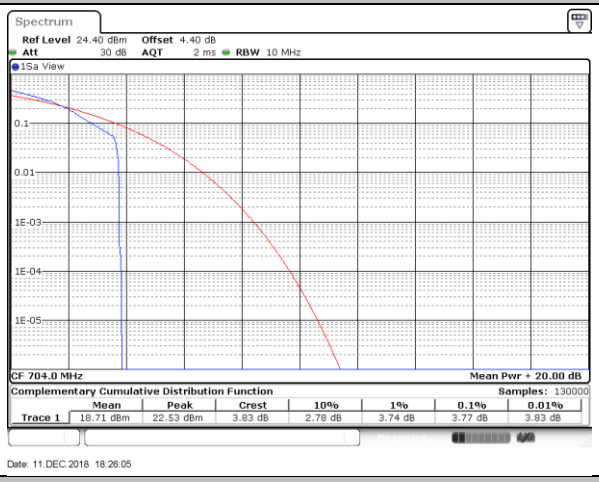
LTE Band 7 / 20MHz / 16QAM	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

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

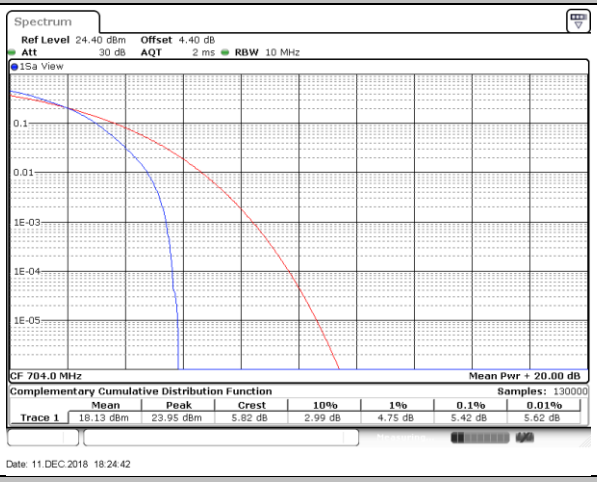
LTE Band 12 / 10MHz / QPSK	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

LTE Band 12 / 10MHz / 16QAM

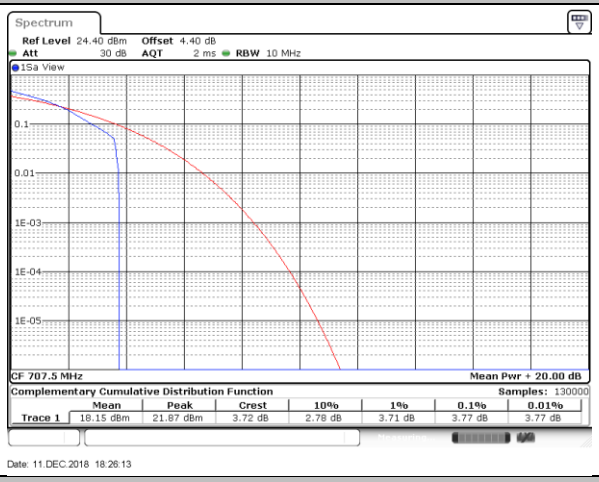
Lowest Channel / 1RB



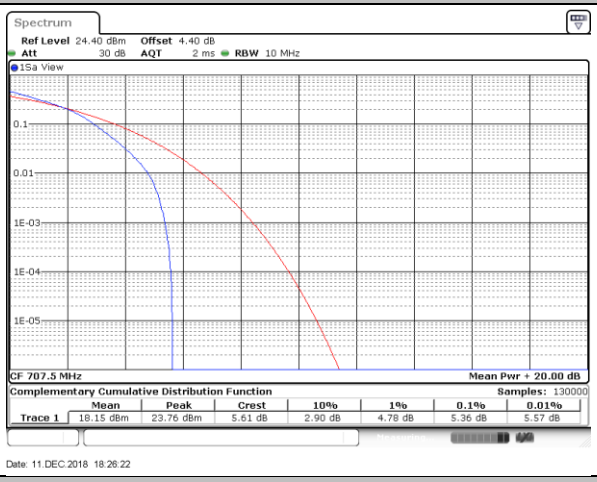
Lowest Channel / Full RB



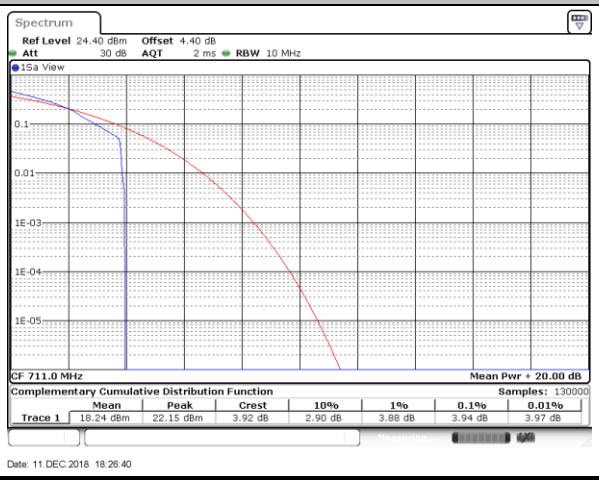
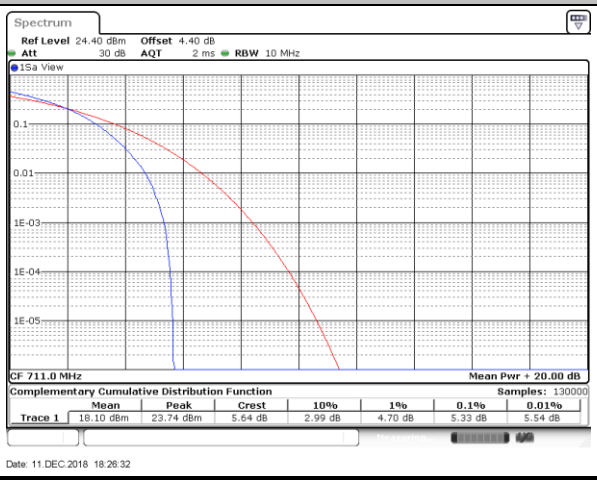
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB