FCC RF Test Report

APPLICANT	: Huawei Technologies Co., Ltd.
EQUIPMENT	: Smart Phone
BRAND NAME	: Honor
MODEL NAME	: YAL-L41
FCC ID	: QISYAL-L41
STANDARD	: 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M)
CLASSIFICATION	: PCS Licensed Transmitter Held to Ear (PCE)

The product was received on May 10, 2019 and completely tested on May 24, 2019. We, Sporton International (Shenzhen) 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 (Shenzhen) Inc., the test report shall not be reproduced except in full.

Derreck Chen

Reviewed by: Derreck Chen / Supervisor

Eric Shih

Approved by: Eric Shih / Manager

ACCREDITED Cert #5145.01

Sporton International (ShenZhen) Inc.

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG951002B	Rev. 01	Initial issue of report	May 27, 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) (Band 26)	ERP < 7 Watt		
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 7) (Band 38) (Band 41)	EIRP < 2Watt		
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4)	EIRP < 1Watt		
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(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 26)	< 43+10log10(P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)	§27.53(m)(4)		
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 26)	< 43+10log10(P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log$_{10}$(P[Watts])		
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(f) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 26)	< 43+10log$_{10}$(P[Watts])	PASS	Under limit 25.75 dB at 10391.000 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log$_{10}$(P[Watts])		

1 General Description

1.1 Applicant

Huawei Technologies Co., Ltd.
Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart Phone
Brand Name	Honor
Model Name	YAL-L41
FCC ID	QISYAL-L41
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/DC-HSDPA/HSPA+(16 QAM Uplink is not supported)/LTE/NFC WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80//VHT160 Bluetooth BR/EDR/LE GNSS
IMEI Code	Conducted: 869436040037919/869436040042414 Radiation: 869436040037885/869436040042380
HW Version	HL2YALEM04
SW Version	9.1.0.119(C900E119R1P2)
EUT Stage	Identical Prototype

1.3 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 26 : 824.7MHz ~ 848.3 MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz LTE Band 41 : 2547.5 MHz ~ 2652.5 MHz
Rx Frequency	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 7 : 2622.5MHz ~ 2687.5 MHz LTE Band 26 : 869.7MHz ~ 893.3MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz LTE Band 41 : 2547.5 MHz ~ 2652.5 MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 7 : 5MHz/ 10MHz / 15MHz / 20MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	**Top Antenna :** LTE Band 4 : 23.39 dBm LTE Band 7 : 23.49 dBm LTE Band 38 : 23.28 dBm **Bottom Antenna :** LTE Band 2 : 23.24 dBm LTE Band 4 : 23.04 dBm LTE Band 5 : 24.10 dBm LTE Band 7 : 23.39 dBm LTE Band 26 : 23.75 dBm LTE Band 38 : 23.27 dBm LTE Band 41 : 23.04 dBm
Antenna Gain	**Top Antenna :** LTE Band 2 : -3.40 dBi LTE Band 4 : -1.70 dBi LTE Band 5 : -4.00 dBi LTE Band 7 : -0.60 dBi LTE Band 26 : -4.00 dBi LTE Band 38 : -0.60 dBi LTE Band 41 : -0.60 dBi **Bottom Antenna :** LTE Band 2 : 0.00 dBi LTE Band 4 : 0.00 dBi LTE Band 5 : -3.60 dBi LTE Band 7 : -0.10 dBi LTE Band 26 : -3.60 dBi LTE Band 38 : -0.10 dBi LTE Band 41 : -0.10 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM(downlink only)

Note: The Maximum ERP/EIRP is calculated from Max Output power and Max antenna gain.

1.4 Modification of EUT

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

1.5 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) for Bottom Antenna	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W) for Bottom Antenna
1.4	1850.7 ~ 1909.3	1M09G7D	-	0.2089	1M10W7D	-	0.1828
3	1851.5 ~ 1908.5	2M73G7D	-	0.2080	2M73W7D	-	0.1811
5	1852.5 ~ 1907.5	4M52G7D	-	0.2075	4M50W7D	-	0.1762
10	1855.0 ~ 1905.0	9M05G7D	0.0017	0.2075	9M05W7D	-	0.1754
15	1857.5 ~ 1902.5	13M5G7D	-	0.2080	13M5W7D	-	0.1786
20	1860.0 ~ 1900.0	18M4G7D	-	0.2109	18M4W7D	-	0.1828

LTE Band 2		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W) for Bottom Antenna
1.4	1850.7 ~ 1909.3	1M10W7D	-	0.1340
3	1851.5 ~ 1908.5	2M75W7D	-	0.1343
5	1852.5 ~ 1907.5	4M50W7D	-	0.1282
10	1855.0 ~ 1905.0	9M03W7D	-	0.1288
15	1857.5 ~ 1902.5	13M5W7D	-	0.1324
20	1860.0 ~ 1900.0	18M5W7D	-	0.1321

LTE Band 4		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W) Bottom	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W) Bottom
1.4	1710.7 ~ 1754.3	1M10G7D	-	0.2014	1M10W7D	-	0.1698
3	1711.5 ~ 1753.5	2M73G7D	-	0.1977	2M75W7D	-	0.1663
5	1712.5 ~ 1752.5	4M50G7D	-	0.1954	4M51W7D	-	0.1656
10	1715.0 ~ 1750.0	9M07G7D	0.0019	0.1954	9M07W7D	-	0.1663
15	1717.5 ~ 1747.5	13M5G7D	-	0.1972	13M5W7D	-	0.1667
20	1720.0 ~ 1745.0	18M5G7D	-	0.1995	18M6W7D	-	0.1671

LTE Band 4		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W) Bottom
1.4	1710.7 ~ 1754.3	1M11W7D	-	0.1334
3	1711.5 ~ 1753.5	2M73W7D	-	0.1294
5	1712.5 ~ 1752.5	4M50W7D	-	0.1279
10	1715.0 ~ 1750.0	9M13W7D	-	0.1265
15	1717.5 ~ 1747.5	13M5W7D	-	0.1274
20	1720.0 ~ 1745.0	18M5W7D	-	0.1288

LTE Band 5		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W) for Bottom Antenna	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W) for Bottom Antenna
1.4	824.7 ~ 848.3	1M09G7D	-	0.0679	1M10W7D	-	0.0592
3	825.5 ~ 847.5	2M76G7D	-	0.0678	2M73W7D	-	0.0579
5	826.5 ~ 846.5	4M54G7D	-	0.0675	4M50W7D	-	0.0583
10	829.0 ~ 844.0	9M05G7D	0.0155	0.0684	9M09W7D		0.0541

LTE Band 5		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W) for Bottom Antenna
1.4	824.7 ~ 848.3	1M10W7D	-	0.0441
3	825.5 ~ 847.5	2M73W7D	-	0.0442
5	826.5 ~ 846.5	4M52W7D	-	0.0436
10	829.0 ~ 844.0	9M09W7D	-	0.0443

LTE Band 7		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W) Bottom	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W) Bottom
5	2502.5 ~ 2567.5	4M51G7D	-	0.2000	4M52W7D	-	0.1762
10	2505.0 ~ 2565.0	9M03G7D	0.0056	0.2099	9M05W7D	-	0.1750
15	2507.5 ~ 2562.5	13M5G7D	-	0.2084	13M6W7D	-	0.1726
20	2510.0 ~ 2560.0	18M5G7D	-	0.2133	18M5W7D	-	0.1750

LTE Band 7		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W) Bottom
5	2502.5 ~ 2567.5	4M51W7D	-	0.1387
10	2505.0 ~ 2565.0	9M05W7D	-	0.1413
15	2507.5 ~ 2562.5	13M5W7D	-	0.1419
20	2510.0 ~ 2560.0	18M5W7D	-	0.1439

LTE Band 26		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W) for Bottom Antenna	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W) for Bottom Antenna
1.4	824.7 ~ 848.3	1M09G7D	-	0.0627	1M10W7D	-	0.0530
3	825.5 ~ 847.5	2M73G7D	-	0.0627	2M74W7D	-	0.0524
5	826.5 ~ 846.5	4M52G7D	-	0.0612	4M49W7D	-	0.0507
10	829.0 ~ 844.0	9M07G7D	0.0024	0.0615	9M03W7D	-	0.0513
15	831.5 ~ 841.5	13M5G7D	-	0.0621	13M5W7D	-	0.0514
CH26765	821.5	13M5G7D	-	0.0631	13M6W7D	-	0.0522

LTE Band 26		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W) for Bottom Antenna
1.4	824.7 ~ 848.3	1M09W7D	-	0.0405
3	825.5 ~ 847.5	2M73W7D	-	0.0391
5	826.5 ~ 846.5	4M50W7D	-	0.0388
10	829.0 ~ 844.0	9M09W7D	-	0.0401
15	831.5 ~ 841.5	13M5W7D	-	0.0397
CH26765	821.5	13M4W7D	-	0.0394

LTE Band 38		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W) Bottom	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W) Bottom
5	2572.5 ~ 2617.5	4M55G7D	-	0.1950	4M52W7D	-	0.1578
10	2575.0 ~ 2615.0	9M05G7D	0.0016	0.1959	9M09W7D	-	0.1552
15	2577.5 ~ 2612.5	13M6G7D	-	0.1959	13M6W7D	-	0.1542
20	2580.0 ~ 2610.0	18M4G7D	-	0.2075	18M4W7D	-	0.1671

LTE Band 38		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W) Bottom
5	2572.5 ~ 2617.5	4M51W7D	-	0.1560
10	2575.0 ~ 2615.0	9M03W7D	-	0.1542
15	2577.5 ~ 2612.5	13M6W7D	-	0.1596
20	2580.0 ~ 2610.0	18M5W7D	-	0.1309

LTE Band 41		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W) for Bottom Antenna	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W) for Bottom Antenna
5	2547.5 ~ 2652.5	4M51G7D	-	0.1910	4M50W7D	-	0.1514
10	2550.0 ~ 2650.0	9M07G7D	0.0014	0.1932	9M05W7D	-	0.1531
15	2552.5 ~ 2647.5	13M5G7D	-	0.1914	13M6W7D	-	0.1549
20	2555.0 ~ 2645.0	18M5G7D	-	0.1968	18M4W7D	-	0.1524

LTE Band 41		64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W) for Bottom Antenna
5	2547.5 ~ 2652.5	4M48W7D	-	0.1197
10	2550.0 ~ 2650.0	9M13W7D	-	0.1202
15	2552.5 ~ 2647.5	13M5W7D	-	0.1227
20	2555.0 ~ 2645.0	18M4W7D	-	0.1256

1.6 Testing Location

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	TH01-SZ	CN1256	421272

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	No. 3 Bldg the third floor of south, Shahe River west, Fengzeyuan Warehouse, Nanshan Shenzhen, 518055 People's Republic of China TEL: +86-755-33202398		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH01-SZ	CN1256	421272

1.7 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)
- 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.

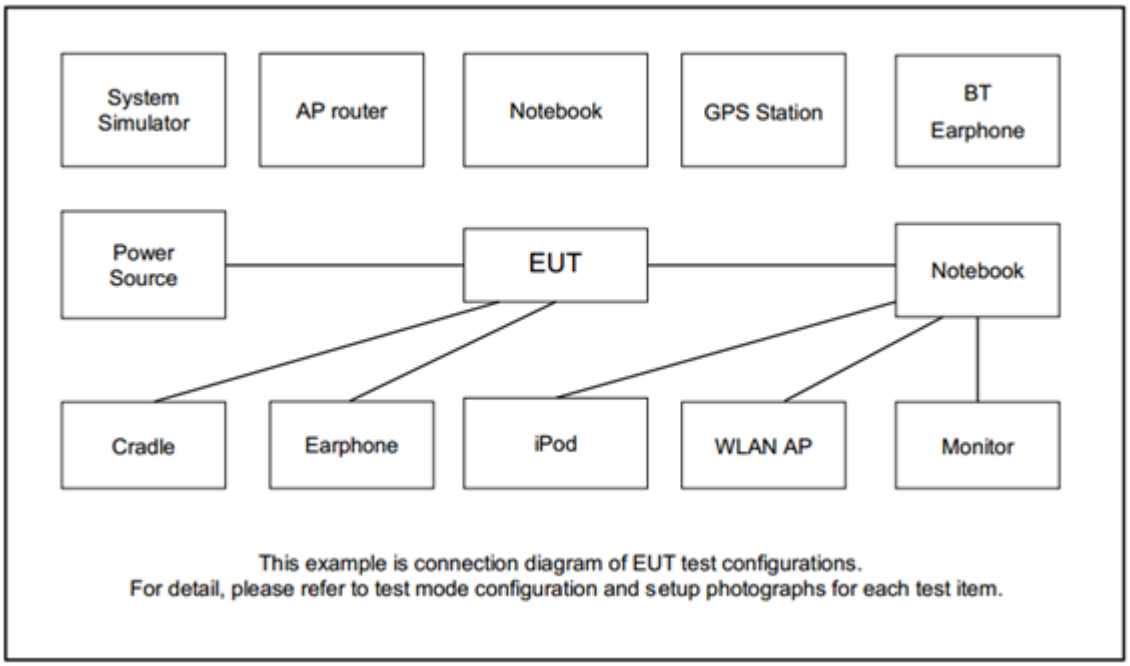
Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
	26	v	v	v	v	v	-	v	v	v	v	v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

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
26dB and 99% Bandwidth	2	v	v	v	v	v	v	v	v	v			v	v	v	v
	4	v	v	v	v	v	v	v	v	v			v	v	v	v
	5	v	v	v	v	-	-	v	v	v			v	v	v	v
	7	-	-	v	v	v	v	v	v	v			v	v	v	v
	26	v	v	v	v	v	-	v	v	v			v	v	v	v
	38	-	-	v	v	v	v	v	v	v			v	v	v	v
	41	-	-	v	v	v	v	v	v	v			v	v	v	v
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
	26	v	v	v	v	v	-	v	v	v	v		v	v		v
	38	-	-	v	v	v	v	v	v	v	v		v	v		v
	41	-	-	v	v	v	v	v	v	v	v		v	v		v

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
	26	v	v	v	v	v	-	v	v	v	v			v	v	v
	38	-	-	v	v	v	v	v	v	v	v			v	v	v
	41	-	-	v	v	v	v	v	v	v	v			v	v	v
Frequency Stability	2				v			v					v		v	
	4				v			v					v		v	
	5				v	-	-	v					v		v	
	7	-	-		v			v					v		v	
	26				v		-	v					v		v	
	38	-	-		v			v					v		v	
	41	-	-		v			v					v		v	

Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	v	v			v	v	v
	4	v	v	v	v	v	v	v	v	v	v			v	v	v
	5	v	v	v	v	-	-	v	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	26	v	v	v	v	v	-	v	v	v	v			v	v	v
	38	-	-	v	v	v	v	v	v	v	v			v	v	v
	41	-	-	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	2	Worst Case													v	
	4	Worst Case													v	
	5	Worst Case													v	
	7	Worst Case													v	
	26	Worst Case													v	
	38	Worst Case													v	
	41	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.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.5 dB and 10dB attenuator.

Example :

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.5 + 10 = 14.5 (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 26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
	Frequency	829	836.5	844
5	Channel	26815	26915	27015
	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
	Frequency	824.7	836.5	848.3

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

LTE Band 41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	40240	40690	41140
	Frequency	2555	2600	2645
15	Channel	40215	40690	41165
	Frequency	2552.5	2600	2647.5
10	Channel	40190	40690	41190
	Frequency	2550	2600	2650
5	Channel	40165	40690	41215
	Frequency	2547.5	2600	2652.5

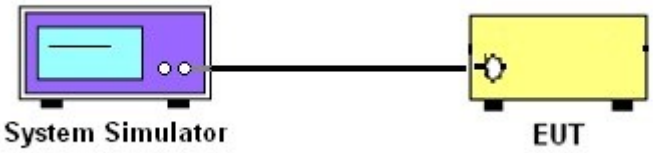
3 Conducted Test Items

3.1 Measuring Instruments

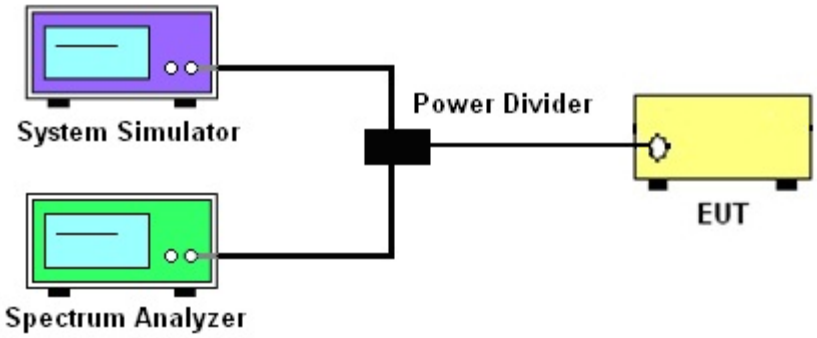
See list of measuring instruments of this test report.

3.2 Test Setup

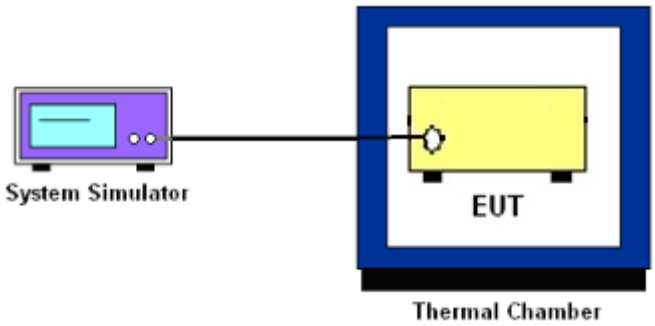
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

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

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

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

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

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

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.4.2 Test Procedures

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

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

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

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

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

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

3.6.2 Test Procedures

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

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a)

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

24.238 (a)

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

27.53 (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, 41, the other 40 dB, and 55 dB have additionally applied same calculation above.

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

For Band 7,38,41:

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

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 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, 41
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [55+ 10log(P)] (dB)
    = [30+ 10log(P)] (dBm) - [55+ 10log(P)] (dB)
    = -25dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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

3.9.2 Test Procedures for Temperature Variation

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

3.9.3 Test Procedures for Voltage Variation

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

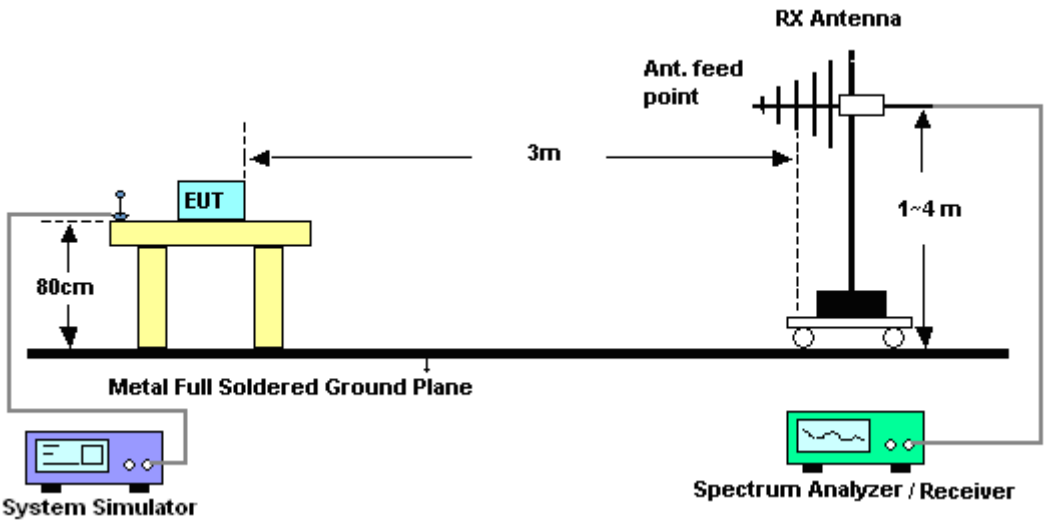
4 Radiated Test Items

4.1 Measuring Instruments

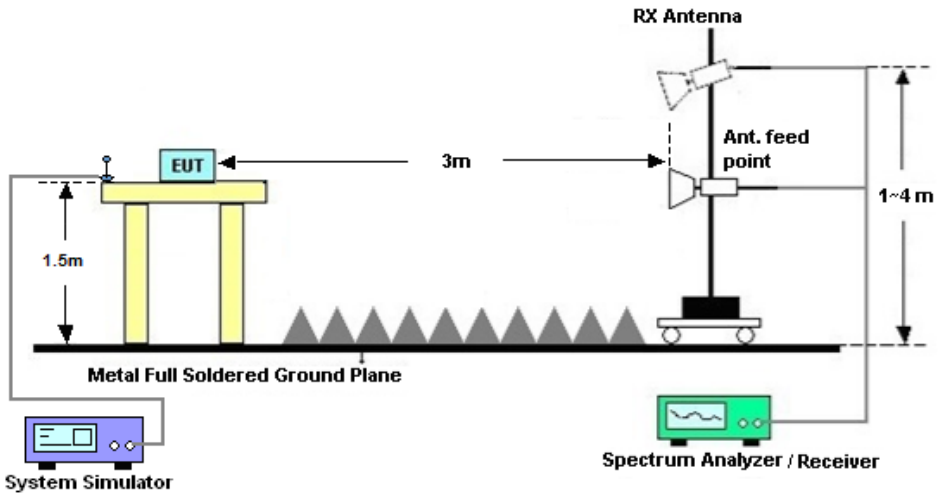
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

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

For Band 7, 38, 41

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

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

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
10. EIRP (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, 41:
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Aug. 07, 2018	May 15, 2019~ May 24, 2019	Aug. 06, 2019	Conducted (TH01-KS)
Thermal Chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jun. 27, 2018	May 15, 2019~ May 24, 2019	Jun. 26, 2019	Conducted (TH01-KS)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Aug. 30, 2018	May 12, 2019~ May 23, 2019	Aug. 29, 2019	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270104	0.5GHz~26.5Ghz	Dec. 22, 2018	May 12, 2019~ May 23, 2019	Dec 21, 2019	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Jun. 5, 2018	May 12, 2019~ May 23, 2019	Jun. 4, 2019	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS Lindgren	3117	119436	1GHz~18GHz	Jun. 28, 2018	May 12, 2019~ May 23, 2019	Jun. 27, 2019	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Mar. 30, 2019	May 12, 2019~ May 23, 2019	Mar. 29, 2020	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 19, 2019	May 12, 2019~ May 23, 2019	Apr. 18, 2020	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1707137	1GHz~18GHz	Oct. 19, 2018	May 12, 2019~ May 23, 2019	Oct. 18, 2019	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 17.2018	May 12, 2019~ May 23, 2019	Jul. 16.2019	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	61601000198 5	N/A	NCR	May 12, 2019~ May 23, 2019	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 12, 2019~ May 23, 2019	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 12, 2019~ May 23, 2019	NCR	Radiation (03CH01-SZ)

6 Uncertainty of Evaluation

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

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.5dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.0dB**

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

Remark：

The conducted power (LTE B2/5/26/41) of top antenna is less than the bottom antenna, so for top antenna only show the power of LTE B4/7/38 on the report.

Although bottom antenna conducted power (LTE B4/7/38) is less than the power of top antenna, but bottom antenna gain is higher than the top antenna gain, it will affect the maximum EIRP calculation, so LTE B4/7/38 bottom power and EIRP will show on the report.

Top Antenna:

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.39	23.25	23.17
20	1	49		23.05	22.97	23.11
20	1	99		23.30	23.21	23.13
20	50	0		22.31	22.25	22.35
20	50	24		22.22	22.25	22.23
20	50	50		22.30	22.24	22.21
20	100	0		22.27	22.30	22.33
20	1	0	16-QAM	22.53	22.52	22.40
20	1	49		22.09	22.20	22.18
20	1	99		22.52	22.47	22.39
20	50	0		21.23	21.24	21.26
20	50	24		21.15	21.18	21.18
20	50	50		21.28	21.25	21.19
20	100	0		21.22	21.22	21.21
20	1	0	64-QAM	21.07	21.33	20.94
20	1	49		20.89	20.93	20.95
20	1	99		21.17	21.14	21.10
20	50	0		19.86	19.96	19.84
20	50	24		19.82	19.85	19.85
20	50	50		19.86	20.02	19.90
20	100	0		19.87	19.94	19.74

15	1	0	QPSK	23.25	23.18	23.17
15	1	37		22.98	23.10	23.14
15	1	74		23.18	23.17	23.04
15	36	0		22.28	22.26	22.31
15	36	20		22.21	22.27	22.24
15	36	39		22.29	22.18	22.21
15	75	0		22.26	22.28	22.24
15	1	0	16-QAM	22.50	22.40	22.52
15	1	37		22.29	22.25	22.32
15	1	74		22.47	22.41	22.47
15	36	0		21.22	21.24	21.23
15	36	20		21.20	21.05	21.09
15	36	39		21.22	21.19	21.18
15	75	0		21.18	21.21	21.19
15	1	0	64-QAM	21.02	21.03	20.90
15	1	37		20.90	20.72	20.98
15	1	74		21.04	20.85	21.03
15	36	0		19.75	19.95	19.73
15	36	20		19.81	19.89	19.85
15	36	39		20.01	20.00	19.83
15	75	0		19.81	19.88	19.82

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.26	23.16	23.24
10	1	25		23.14	23.30	23.14
10	1	49		23.15	23.16	23.11
10	25	0		22.26	22.16	22.26
10	25	12		22.22	22.26	22.15
10	25	25		22.27	22.25	22.23
10	50	0		22.22	22.25	22.23
10	1	0	16-QAM	22.43	22.48	22.55
10	1	25		22.35	22.54	22.25
10	1	49		22.39	22.35	22.29
10	25	0		21.21	21.05	21.23
10	25	12		21.17	21.08	21.12
10	25	25		21.20	21.16	21.16
10	50	0		21.16	21.21	21.16
10	1	0	64QAM	21.02	21.15	20.97
10	1	25		20.89	21.09	21.04
10	1	49		20.82	20.96	20.95
10	25	0		19.85	19.86	19.87
10	25	12		19.73	19.87	19.81
10	25	25		19.75	19.96	19.81
10	50	0		19.67	19.84	19.83
5	1	0	QPSK	23.18	23.09	23.13
5	1	12		23.03	23.08	23.07
5	1	24		23.01	23.16	23.15
5	12	0		22.04	22.11	22.22
5	12	7		22.22	22.10	22.24
5	12	13		22.33	22.28	22.24
5	25	0		22.20	22.11	22.24
5	1	0	16-QAM	22.40	22.57	22.35
5	1	12		22.40	22.23	22.41
5	1	24		22.37	22.35	22.20
5	12	0		21.20	21.09	21.19
5	12	7		21.21	21.09	21.24

5	12	13		21.28	21.33	21.23
5	25	0		21.17	21.22	21.18
5	1	0		20.87	21.06	21.00
5	1	12		21.02	20.93	21.05
5	1	24		20.82	21.07	20.90
5	12	0	64-QAM	19.91	19.93	19.93
5	12	7		19.87	19.90	19.95
5	12	13		19.81	20.02	19.90
5	25	0		19.85	19.86	19.81

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.05	23.20	23.24
3	1	8		23.16	23.20	23.33
3	1	14		23.01	23.18	23.13
3	8	0		21.99	22.23	22.22
3	8	4		22.09	22.29	22.25
3	8	7		22.07	22.23	22.27
3	15	0		22.11	22.26	22.23
3	1	0	16-QAM	22.29	22.24	22.36
3	1	8		22.33	22.55	22.54
3	1	14		22.27	22.33	22.29
3	8	0		21.00	21.02	21.17
3	8	4		21.03	21.00	21.22
3	8	7		20.98	21.12	21.23
3	15	0		21.03	21.20	21.18
3	1	0	64QAM	20.97	20.85	20.94
3	1	8		20.86	21.06	21.15
3	1	14		21.07	20.99	21.09
3	8	0		19.79	19.85	19.89
3	8	4		19.83	19.73	19.98
3	8	7		19.79	19.97	19.88
3	15	0		19.79	19.90	19.88
1.4	1	0	QPSK	23.02	23.19	23.34
1.4	1	3		23.05	23.20	23.20
1.4	1	5		23.01	23.13	23.27
1.4	3	0		23.07	23.22	23.04
1.4	3	1		23.09	23.26	23.05
1.4	3	3		23.02	23.18	23.28
1.4	6	0		22.06	22.34	22.26
1.4	1	0	16-QAM	22.25	22.47	22.51
1.4	1	3		22.23	22.49	22.46
1.4	1	5		22.34	22.36	22.54
1.4	3	0		22.04	22.15	22.18
1.4	3	1		22.09	22.03	22.23

1.4	3	3		22.09	22.37	22.09
1.4	6	0		21.04	21.02	21.12
1.4	1	0		20.90	20.73	20.83
1.4	1	3		20.79	20.96	20.90
1.4	1	5		20.84	21.11	20.75
1.4	3	0	64-QAM	20.79	20.79	20.74
1.4	3	1		20.84	20.72	20.73
1.4	3	3		20.81	20.77	20.71
1.4	6	0		19.71	19.71	19.70

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.06	23.13	23.19
20	1	49		23.28	23.26	23.26
20	1	99		23.42	23.49	23.28
20	50	0		22.51	22.57	22.62
20	50	24		22.49	22.53	22.56
20	50	50		22.62	22.67	22.57
20	100	0		22.55	22.61	22.63
20	1	0	16-QAM	22.23	22.32	22.44
20	1	49		22.51	22.71	22.49
20	1	99		22.61	22.65	22.45
20	50	0		21.33	21.50	21.55
20	50	24		21.33	21.45	21.47
20	50	50		21.47	21.57	21.60
20	100	0		21.44	21.52	21.57
20	1	0	64-QAM	21.18	21.11	21.19
20	1	49		21.09	21.23	21.29
20	1	99		21.40	21.52	21.43
20	50	0		20.34	20.48	20.53
20	50	24		20.32	20.46	20.45
20	50	50		20.48	20.56	20.57
20	100	0		20.42	20.51	20.55
15	1	0	QPSK	23.16	23.32	23.42
15	1	37		23.31	23.39	23.36
15	1	74		23.19	23.23	23.06
15	36	0		22.47	22.58	22.62
15	36	20		22.49	22.55	22.56
15	36	39		22.60	22.59	22.58
15	75	0		22.48	22.56	22.58
15	1	0	16-QAM	22.34	22.50	22.49
15	1	37		22.48	22.64	22.62
15	1	74		22.43	22.65	22.33
15	36	0		21.39	21.51	21.52
15	36	20		21.36	21.50	21.46
15	36	39		21.47	21.61	21.46

15	75	0		21.35	21.49	21.52
15	1	0		21.17	21.28	21.34
15	1	37		21.21	21.44	21.32
15	1	74		21.26	21.38	21.18
15	36	0	64-QAM	20.40	20.50	20.51
15	36	20		20.36	20.50	20.50
15	36	39		20.46	20.61	20.44
15	75	0		20.35	20.50	20.52

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.16	23.24	23.26
10	1	25		23.41	23.45	23.31
10	1	49		23.13	23.21	23.08
10	25	0		22.45	22.52	22.50
10	25	12		22.47	22.58	22.53
10	25	25		22.56	22.53	22.43
10	50	0		22.41	22.54	22.55
10	1	0	16-QAM	22.32	22.49	22.51
10	1	25		22.56	22.53	22.51
10	1	49		22.41	22.55	22.39
10	25	0		21.38	21.44	21.46
10	25	12		21.39	21.52	21.49
10	25	25		21.35	21.56	21.51
10	50	0		21.32	21.43	21.45
10	1	0	64-QAM	21.16	21.28	21.26
10	1	25		21.48	21.37	21.49
10	1	49		21.25	21.31	21.12
10	25	0		20.34	20.45	20.45
10	25	12		20.39	20.44	20.47
10	25	25		20.33	20.56	20.48
10	50	0		20.29	20.49	20.45
5	1	0	QPSK	23.17	23.25	23.18
5	1	12		23.16	23.37	23.17
5	1	24		23.10	23.24	23.06
5	12	0		22.45	22.56	22.58
5	12	7		22.46	22.58	22.49
5	12	13		22.46	22.49	22.58
5	25	0		22.46	22.56	22.49
5	1	0	16-QAM	22.37	22.51	22.48
5	1	12		22.45	22.64	22.55
5	1	24		22.35	22.49	22.34
5	12	0		21.34	21.50	21.54
5	12	7		21.31	21.49	21.49

5	12	13		21.37	21.54	21.45
5	25	0		21.37	21.50	21.44
5	1	0		21.04	21.32	21.32
5	1	12		21.16	21.46	21.25
5	1	24		21.19	21.35	21.19
5	12	0	64-QAM	20.35	20.44	20.52
5	12	7		20.31	20.46	20.48
5	12	13		20.40	20.54	20.46
5	25	0		20.36	20.50	20.43

LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.01	22.99	22.99
20	1	49		22.95	22.87	22.94
20	1	99		23.25	23.27	23.28
20	50	0		21.95	22.07	22.10
20	50	24		22.04	22.03	22.04
20	50	50		22.04	22.14	21.97
20	100	0		21.89	22.08	22.08
20	1	0	16-QAM	21.92	22.04	22.01
20	1	49		21.94	21.88	21.84
20	1	99		22.28	22.27	22.25
20	50	0		20.85	21.03	21.07
20	50	24		20.93	20.91	21.02
20	50	50		20.94	21.03	20.96
20	100	0		20.94	21.03	20.98
20	1	0	64-QAM	21.01	21.02	20.96
20	1	49		20.83	20.86	20.82
20	1	99		21.06	21.07	21.16
20	50	0		19.81	19.95	20.04
20	50	24		19.81	19.91	20.01
20	50	50		19.95	20.03	20.08
20	100	0		19.95	19.99	19.99
15	1	0	QPSK	23.09	22.93	23.09
15	1	37		22.96	23.00	22.91
15	1	74		23.03	23.09	23.08
15	36	0		21.98	22.09	22.12
15	36	20		22.11	22.04	22.10
15	36	39		22.04	22.18	21.97
15	75	0		22.11	22.08	22.12
15	1	0	16-QAM	21.90	22.16	22.11
15	1	37		21.93	21.91	21.84
15	1	74		22.13	22.21	22.10
15	36	0		20.91	21.06	21.05
15	36	20		21.03	21.07	21.06

15	36	39		20.97	21.09	20.96
15	75	0		21.01	21.06	21.04
15	1	0		20.77	20.85	21.03
15	1	37		20.72	20.62	20.61
15	1	74		20.94	21.01	21.01
15	36	0	64-QAM	19.87	20.07	20.04
15	36	20		20.06	20.07	20.04
15	36	39		19.99	20.10	19.95
15	75	0		20.03	20.01	20.04

LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.91	22.96	23.12
10	1	25		22.99	23.01	23.00
10	1	49		23.01	23.10	23.11
10	25	0		21.90	22.11	22.11
10	25	12		21.90	22.07	22.09
10	25	25		22.03	22.12	21.95
10	50	0		21.89	22.08	22.07
10	1	0	16-QAM	21.90	21.89	22.15
10	1	25		21.95	22.01	21.99
10	1	49		21.91	22.13	22.14
10	25	0		20.95	21.02	21.03
10	25	12		20.87	20.92	20.99
10	25	25		20.93	20.81	21.05
10	50	0		20.95	20.98	21.05
10	1	0	64-QAM	20.84	21.01	20.86
10	1	25		20.94	20.92	20.93
10	1	49		21.00	21.04	21.09
10	25	0		20.01	19.98	20.00
10	25	12		19.94	19.95	19.98
10	25	25		19.94	19.93	20.04
10	50	0		19.95	19.98	20.04
5	1	0	QPSK	23.02	23.05	23.12
5	1	12		22.84	22.88	23.11
5	1	24		22.88	23.07	23.04
5	12	0		21.95	22.12	22.12
5	12	7		21.93	22.12	22.10
5	12	13		21.96	22.18	22.06
5	25	0		22.00	22.11	22.06
5	1	0	16-QAM	22.11	22.00	22.14
5	1	12		21.82	21.90	21.80
5	1	24		21.87	22.13	21.93
5	12	0		20.84	21.00	21.05
5	12	7		20.82	20.93	21.02

5	12	13		20.86	21.10	21.08
5	25	0		20.90	21.03	21.03
5	1	0		20.81	20.90	20.99
5	1	12		20.79	20.68	20.72
5	1	24		20.82	21.01	20.99
5	12	0	64-QAM	19.85	20.01	20.05
5	12	7		19.83	19.98	20.04
5	12	13		19.88	20.03	20.10
5	25	0		19.84	19.98	19.98

Bottom Antenna:

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.22	23.17	23.24
20	1	49		22.91	22.94	22.94
20	1	99		23.09	23.16	23.09
20	50	0		22.18	22.06	22.25
20	50	24		22.09	22.00	22.11
20	50	50		22.07	22.20	22.30
20	100	0		22.15	22.14	22.26
20	1	0	16-QAM	22.48	22.43	22.62
20	1	49		22.15	22.12	22.35
20	1	99		22.23	22.36	22.39
20	50	0		21.19	21.13	21.25
20	50	24		21.08	21.03	21.15
20	50	50		21.14	21.03	21.01
20	100	0		21.14	21.11	21.22
20	1	0	64-QAM	21.21	21.15	21.10
20	1	49		20.86	20.83	20.89
20	1	99		20.95	21.09	21.15
20	50	0		19.95	19.95	19.98
20	50	24		19.87	19.75	19.91
20	50	50		19.86	19.88	20.01
20	100	0		19.94	19.86	19.96
15	1	0	QPSK	23.18	23.02	23.15
15	1	37		22.88	22.68	22.85
15	1	74		22.80	22.98	23.00
15	36	0		22.06	22.01	22.13
15	36	20		21.96	21.92	22.09
15	36	39		21.97	22.01	22.15
15	75	0		21.99	22.02	22.11
15	1	0	16-QAM	22.49	22.24	22.52
15	1	37		22.10	22.12	22.34
15	1	74		22.27	22.42	22.39
15	36	0		21.11	21.02	21.07
15	36	20		21.02	20.96	21.00

15	36	39		20.98	20.90	21.18
15	75	0		21.12	21.03	21.10
15	1	0		21.00	21.14	21.16
15	1	37		20.79	20.82	20.90
15	1	74		20.94	20.87	21.22
15	36	0	64-QAM	19.89	19.83	19.86
15	36	20		19.71	19.76	19.81
15	36	39		19.70	19.65	19.85
15	75	0		19.78	19.81	19.79

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.17	22.97	23.08
10	1	25		23.01	23.04	23.09
10	1	49		23.00	22.96	22.97
10	25	0		21.87	21.95	22.07
10	25	12		21.84	21.86	22.09
10	25	25		21.91	21.78	22.10
10	50	0		22.01	21.95	22.06
10	1	0	16-QAM	22.35	22.26	22.44
10	1	25		22.35	22.17	22.30
10	1	49		22.18	22.22	22.44
10	25	0		21.05	20.98	21.04
10	25	12		21.03	20.93	21.08
10	25	25		21.01	20.93	21.15
10	50	0		21.01	20.98	21.04
10	1	0	64-QAM	21.06	20.96	21.04
10	1	25		20.94	20.94	21.00
10	1	49		20.91	20.87	21.10
10	25	0		19.78	19.74	19.81
10	25	12		19.73	19.76	19.79
10	25	25		19.85	19.71	19.94
10	50	0		19.81	19.75	19.83
5	1	0	QPSK	23.14	23.01	23.14
5	1	12		22.98	22.89	23.01
5	1	24		22.91	22.99	23.17
5	12	0		21.98	22.02	22.11
5	12	7		21.92	21.87	22.16
5	12	13		22.02	21.91	22.17
5	25	0		22.04	21.92	22.10
5	1	0	16-QAM	22.25	22.23	22.43
5	1	12		22.20	22.00	22.25
5	1	24		22.14	22.25	22.46
5	12	0		21.00	21.05	21.19
5	12	7		20.96	20.96	21.16

5	12	13		21.13	21.06	21.08
5	25	0		21.07	21.00	21.14
5	1	0		21.02	20.98	21.08
5	1	12		20.88	20.79	20.96
5	1	24		21.01	20.84	21.06
5	12	0	64-QAM	19.92	19.83	19.90
5	12	7		19.83	19.79	19.91
5	12	13		19.80	19.88	19.99
5	25	0		19.78	19.73	19.83

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.18	23.11	23.09
3	1	8		22.87	22.88	23.04
3	1	14		23.15	23.10	23.12
3	8	0		22.03	21.92	22.08
3	8	4		21.91	21.79	21.93
3	8	7		21.93	21.90	22.01
3	15	0		22.00	21.80	22.08
3	1	0	16-QAM	22.53	22.27	22.58
3	1	8		22.25	22.12	22.27
3	1	14		22.43	22.51	22.56
3	8	0		21.03	20.94	21.10
3	8	4		20.82	20.87	20.95
3	8	7		20.87	20.79	21.05
3	15	0		20.92	20.81	21.08
3	1	0	64-QAM	21.19	21.18	21.25
3	1	8		20.90	20.91	21.14
3	1	14		21.28	21.08	21.28
3	8	0		19.81	19.68	19.88
3	8	4		19.54	19.74	19.73
3	8	7		19.78	19.74	19.80
3	15	0		19.70	19.64	19.80
1.4	1	0	QPSK	23.18	23.07	23.07
1.4	1	3		23.19	23.05	23.05
1.4	1	5		23.20	23.17	23.17
1.4	3	0		23.08	22.93	22.96
1.4	3	1		23.07	22.92	22.94
1.4	3	3		23.07	23.05	23.09
1.4	6	0		21.94	21.96	22.08
1.4	1	0	16-QAM	22.53	22.36	22.57
1.4	1	3		22.46	22.30	22.57
1.4	1	5		22.62	22.37	22.58
1.4	3	0		22.09	21.91	22.18
1.4	3	1		22.00	21.77	22.10

1.4	3	3		22.02	22.17	22.26
1.4	6	0		21.01	21.01	21.18
1.4	1	0		21.14	21.07	21.27
1.4	1	3		21.16	20.96	21.13
1.4	1	5		21.15	21.01	21.27
1.4	3	0	64-QAM	20.97	20.96	20.94
1.4	3	1		21.00	20.90	21.00
1.4	3	3		21.08	20.94	21.06
1.4	6	0		19.95	19.92	19.95

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.00	22.92	22.79
20	1	49		22.66	22.83	22.71
20	1	99		22.99	22.90	22.88
20	50	0		22.07	21.91	22.04
20	50	24		21.96	21.98	22.00
20	50	50		22.07	22.00	21.89
20	100	0		22.03	22.06	22.04
20	1	0	16-QAM	22.16	22.12	22.22
20	1	49		21.91	21.79	22.10
20	1	99		22.23	22.19	22.16
20	50	0		20.99	20.91	20.95
20	50	24		20.87	20.93	20.90
20	50	50		21.05	21.01	20.85
20	100	0		20.96	20.98	20.95
20	1	0	64-QAM	21.00	21.10	21.07
20	1	49		20.82	20.93	20.99
20	1	99		20.87	20.96	20.94
20	50	0		19.97	19.93	19.97
20	50	24		19.88	19.90	19.91
20	50	50		19.99	19.92	19.88
20	100	0		19.95	19.97	19.96
15	1	0	QPSK	22.95	22.90	22.82
15	1	37		22.80	22.95	22.87
15	1	74		22.91	22.87	22.79
15	36	0		22.02	21.92	22.00
15	36	20		21.97	21.97	21.94
15	36	39		21.97	21.92	21.89
15	75	0		21.96	21.99	22.00
15	1	0	16-QAM	22.17	22.06	22.22
15	1	37		22.04	21.91	21.93
15	1	74		22.09	22.17	22.13
15	36	0		20.95	20.92	20.95
15	36	20		20.90	20.77	20.91

15	36	39		20.89	20.93	20.85
15	75	0		20.89	20.93	20.93
15	1	0		20.87	20.81	21.05
15	1	37		20.76	20.75	21.04
15	1	74		21.05	20.91	20.87
15	36	0	64-QAM	19.94	19.90	19.93
15	36	20		19.88	19.95	19.92
15	36	39		19.91	19.98	19.86
15	75	0		19.89	19.94	19.94

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.91	22.82	22.83
10	1	25		22.67	22.76	22.68
10	1	49		22.89	22.86	22.91
10	25	0		21.97	21.87	22.00
10	25	12		21.96	21.98	21.99
10	25	25		21.90	21.90	21.94
10	50	0		21.94	21.98	22.00
10	1	0	16-QAM	22.05	22.21	22.20
10	1	25		21.94	21.71	22.11
10	1	49		22.03	22.10	22.18
10	25	0		20.91	20.91	20.94
10	25	12		20.90	20.92	20.95
10	25	25		20.97	20.93	20.90
10	50	0		20.88	20.95	20.92
10	1	0	64QAM	20.87	20.94	20.87
10	1	25		20.65	20.68	20.72
10	1	49		21.02	20.87	20.87
10	25	0		19.89	19.87	19.93
10	25	12		19.89	19.95	19.91
10	25	25		19.97	19.97	19.89
10	50	0		19.87	19.95	19.92
5	1	0	QPSK	22.88	22.78	22.85
5	1	12		22.67	22.57	22.70
5	1	24		22.69	22.79	22.91
5	12	0		21.93	22.00	21.97
5	12	7		21.89	21.98	21.95
5	12	13		21.98	21.95	21.98
5	25	0		21.92	21.99	21.98
5	1	0	16-QAM	22.00	22.18	22.08
5	1	12		21.97	22.00	22.19
5	1	24		22.10	22.18	22.00
5	12	0		20.82	20.95	20.93
5	12	7		20.79	20.95	20.90

5	12	13		20.89	20.92	20.95
5	25	0		20.83	20.92	20.93
5	1	0		20.88	20.85	20.95
5	1	12		20.66	20.66	20.83
5	1	24		21.07	20.77	20.87
5	12	0	64-QAM	19.82	19.80	19.92
5	12	7		19.80	19.76	19.81
5	12	13		19.90	19.97	19.95
5	25	0		19.82	19.89	19.92

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.70	22.88	22.87
3	1	8		22.76	22.94	22.96
3	1	14		22.74	22.85	22.75
3	8	0		21.93	21.92	21.90
3	8	4		21.71	21.93	21.93
3	8	7		21.69	21.96	21.82
3	15	0		21.79	21.91	21.89
3	1	0	16-QAM	21.99	22.21	22.14
3	1	8		21.94	22.16	22.12
3	1	14		22.04	22.16	21.99
3	8	0		20.72	20.93	20.89
3	8	4		20.76	20.88	20.89
3	8	7		20.93	20.86	20.84
3	15	0		20.71	20.88	20.83
3	1	0	64QAM	20.92	21.06	20.95
3	1	8		21.12	21.01	20.99
3	1	14		20.84	20.93	20.88
3	8	0		19.85	19.89	19.81
3	8	4		19.80	19.93	19.87
3	8	7		19.82	19.85	19.85
3	15	0		19.72	19.89	19.78
1.4	1	0	QPSK	22.92	22.91	22.96
1.4	1	3		22.97	22.93	22.99
1.4	1	5		23.02	22.86	22.94
1.4	3	0		22.78	22.95	22.90
1.4	3	1		23.00	22.95	22.97
1.4	3	3		23.04	22.90	22.95
1.4	6	0		21.89	21.92	21.93
1.4	1	0	16-QAM	22.07	21.98	22.13
1.4	1	3		22.21	22.26	22.30
1.4	1	5		22.01	21.96	22.27
1.4	3	0		21.89	21.83	21.89
1.4	3	1		21.90	21.91	21.90

1.4	3	3		21.91	21.87	21.97
1.4	6	0		20.85	20.88	20.83
1.4	1	0		21.04	20.92	20.94
1.4	1	3		21.25	21.04	20.96
1.4	1	5		21.15	20.93	20.96
1.4	3	0	64-QAM	20.82	20.91	20.93
1.4	3	1		20.76	20.95	20.92
1.4	3	3		20.94	20.91	20.99
1.4	6	0		19.87	19.92	19.90

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	24.10	23.99	24.00
10	1	25		24.02	23.88	23.79
10	1	49		23.87	23.78	23.71
10	25	0		23.10	23.05	23.06
10	25	12		23.05	22.98	23.02
10	25	25		23.07	22.92	22.95
10	50	0		23.04	23.03	23.02
10	1	0	16-QAM	23.06	23.03	23.06
10	1	25		23.03	22.74	22.78
10	1	49		23.08	22.93	22.81
10	25	0		22.02	21.97	22.05
10	25	12		21.98	22.14	22.03
10	25	25		22.06	21.93	21.96
10	50	0		22.03	21.97	22.00
10	1	0	64QAM	22.15	22.21	22.16
10	1	25		22.09	21.82	21.84
10	1	49		21.96	21.84	21.77
10	25	0		20.98	20.98	21.02
10	25	12		20.95	21.02	21.00
10	25	25		21.04	21.05	20.93
10	50	0		21.02	21.06	20.96
5	1	0	QPSK	23.97	23.94	24.04
5	1	12		23.81	23.92	23.84
5	1	24		24.01	23.99	24.02
5	12	0		23.08	23.04	23.12
5	12	7		23.06	23.06	22.93
5	12	13		22.97	23.11	22.99
5	25	0		23.03	23.01	22.97
5	1	0	16-QAM	23.27	23.27	23.37
5	1	12		23.24	23.27	23.18
5	1	24		23.41	23.28	23.34
5	12	0		22.03	22.04	22.13
5	12	7		22.03	22.02	21.95

5	12	13		22.15	22.00	22.01
5	25	0		21.96	21.95	21.93
5	1	0		22.11	22.09	22.12
5	1	12		22.06	22.04	22.00
5	1	24		22.02	22.12	22.14
5	12	0	64QAM	21.00	21.00	21.09
5	12	7		20.99	20.99	20.90
5	12	13		20.91	20.98	21.12
5	25	0		20.96	20.94	20.87

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.93	23.98	23.89
3	1	8		24.04	24.06	23.90
3	1	14		24.01	23.98	23.95
3	8	0		23.02	23.03	22.97
3	8	4		23.05	23.02	22.89
3	8	7		23.07	22.97	23.07
3	15	0		23.05	23.05	23.04
3	1	0	16-QAM	23.29	23.25	23.15
3	1	8		23.25	23.30	23.38
3	1	14		23.23	23.23	23.23
3	8	0		21.99	21.98	21.97
3	8	4		21.96	22.16	21.89
3	8	7		22.00	22.11	22.00
3	15	0		21.98	22.00	21.93
3	1	0	64QAM	22.06	22.10	22.05
3	1	8		22.05	22.20	22.14
3	1	14		22.04	22.10	22.10
3	8	0		20.99	20.97	20.96
3	8	4		20.97	21.18	20.89
3	8	7		21.00	21.11	21.06
3	15	0		20.97	20.98	20.95
1.4	1	0	QPSK	23.97	24.02	24.00
1.4	1	3		23.97	24.00	24.07
1.4	1	5		23.97	23.93	24.02
1.4	3	0		24.06	24.03	24.01
1.4	3	1		24.00	24.00	23.96
1.4	3	3		24.05	23.96	23.95
1.4	6	0		23.02	23.09	22.98
1.4	1	0	16-QAM	23.36	23.33	23.22
1.4	1	3		23.36	23.31	23.26
1.4	1	5		23.26	23.47	23.28
1.4	3	0		23.12	23.22	22.97
1.4	3	1		23.13	23.22	23.07

1.4	3	3		22.94	23.03	23.01
1.4	6	0		21.98	22.04	21.99
1.4	1	0		22.19	22.11	22.07
1.4	1	3		22.04	22.13	22.07
1.4	1	5		22.16	22.09	22.04
1.4	3	0	64QAM	22.03	22.11	22.03
1.4	3	1		22.02	22.11	21.99
1.4	3	3		21.97	22.07	22.08
1.4	6	0		20.95	20.97	20.97

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.06	23.09	23.18
20	1	49		23.16	23.15	23.02
20	1	99		23.04	23.39	22.98
20	50	0		22.52	22.53	22.50
20	50	24		22.37	22.44	22.41
20	50	50		22.50	22.46	22.40
20	100	0		22.41	22.49	22.42
20	1	0	16-QAM	22.11	22.27	22.15
20	1	49		22.16	22.42	22.28
20	1	99		22.45	22.53	22.26
20	50	0		21.35	21.43	21.39
20	50	24		21.28	21.30	21.28
20	50	50		21.31	21.43	21.20
20	100	0		21.26	21.39	21.34
20	1	0	64-QAM	21.24	21.36	21.41
20	1	49		21.43	21.68	21.39
20	1	99		21.58	21.58	21.53
20	50	0		20.57	20.73	20.72
20	50	24		20.53	20.50	20.56
20	50	50		20.55	20.73	20.45
20	100	0		20.62	20.72	20.50
15	1	0	QPSK	22.98	23.23	23.20
15	1	37		23.15	23.29	23.23
15	1	74		23.01	23.17	22.85
15	36	0		22.37	22.48	22.43
15	36	20		22.40	22.44	22.34
15	36	39		22.45	22.41	22.35
15	75	0		22.35	22.44	22.39
15	1	0	16-QAM	22.17	22.47	22.39
15	1	37		22.35	22.34	22.15
15	1	74		22.24	22.28	22.20
15	36	0		21.27	21.24	21.21
15	36	20		21.28	21.21	21.02

15	36	39		21.36	21.41	21.33
15	75	0		21.24	21.31	21.28
15	1	0		21.29	21.43	21.62
15	1	37		21.37	21.46	21.42
15	1	74		21.35	21.39	21.29
15	36	0	64-QAM	20.57	20.53	20.65
15	36	20		20.53	20.49	20.59
15	36	39		20.52	20.51	20.61
15	75	0		20.56	20.56	20.60

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.02	22.99	23.13
10	1	25		23.26	23.32	23.13
10	1	49		23.00	23.11	22.98
10	25	0		22.34	22.45	22.35
10	25	12		22.37	22.47	22.25
10	25	25		22.38	22.40	22.15
10	50	0		22.28	22.42	22.31
10	1	0	16-QAM	22.19	22.45	22.31
10	1	25		22.34	22.53	22.39
10	1	49		22.24	22.33	22.26
10	25	0		21.25	21.40	21.35
10	25	12		21.29	21.32	21.28
10	25	25		21.26	21.42	21.36
10	50	0		21.22	21.37	21.29
10	1	0	64-QAM	21.24	21.29	21.25
10	1	25		21.50	21.16	21.60
10	1	49		21.29	21.39	21.26
10	25	0		20.54	20.57	20.55
10	25	12		20.57	20.50	20.54
10	25	25		20.57	20.56	20.49
10	50	0		20.48	20.65	20.50
5	1	0	QPSK	23.04	23.10	23.00
5	1	12		22.81	22.85	22.72
5	1	24		23.02	23.11	22.73
5	12	0		22.34	22.46	22.36
5	12	7		22.30	22.42	22.32
5	12	13		22.24	22.43	22.23
5	25	0		22.35	22.47	22.32
5	1	0	16-QAM	22.29	22.44	22.23
5	1	12		22.56	22.44	22.31
5	1	24		22.19	22.37	22.21
5	12	0		21.26	21.39	21.33
5	12	7		21.28	21.43	21.30

5	12	13		21.25	21.44	21.30
5	25	0		21.25	21.39	21.25
5	1	0		21.14	21.52	21.52
5	1	12		21.46	21.37	21.29
5	1	24		21.40	21.25	21.02
5	12	0	64-QAM	20.55	20.38	20.60
5	12	7		20.53	20.44	20.58
5	12	13		20.48	20.55	20.52
5	25	0		20.50	20.68	20.53

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.52	23.45	23.53
15	1	37		23.68	23.60	23.65
15	1	74		23.54	23.52	23.57
15	36	0		22.53	22.50	22.70
15	36	20		22.53	22.49	22.59
15	36	39		22.58	22.55	22.63
15	75	0		22.57	22.54	22.57
15	1	0	16-QAM	22.78	22.76	22.83
15	1	37		22.81	22.77	22.81
15	1	74		22.72	22.65	22.86
15	36	0		21.56	21.49	21.56
15	36	20		21.50	21.50	21.53
15	36	39		21.60	21.45	21.64
15	75	0		21.49	21.44	21.57
15	1	0	64-QAM	21.59	21.45	21.62
15	1	37		21.65	21.49	21.70
15	1	74		21.60	21.70	21.74
15	36	0		20.59	20.66	20.57
15	36	20		20.50	20.49	20.52
15	36	39		20.39	20.40	20.66
15	75	0		20.48	20.47	20.57
10	1	0	QPSK	23.54	23.50	23.63
10	1	25		23.51	23.44	23.57
10	1	49		23.56	23.62	23.64
10	25	0		22.65	22.65	22.66
10	25	12		22.52	22.52	22.53
10	25	25		22.77	22.66	22.69
10	50	0		22.61	22.49	22.63
10	1	0	16-QAM	22.77	22.55	22.80
10	1	25		22.72	22.61	22.85
10	1	49		22.67	22.71	22.68
10	25	0		21.52	21.60	21.53
10	25	12		21.44	21.45	21.50

10	25	25		21.42	21.45	21.45
10	50	0		21.49	21.50	21.51
10	1	0		21.54	21.52	21.59
10	1	25		21.55	21.51	21.60
10	1	49		21.72	21.66	21.78
10	25	0	64-QAM	20.55	20.52	20.53
10	25	12		20.53	20.52	20.48
10	25	25		20.48	20.47	20.46
10	50	0		20.47	20.45	20.48

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.54	23.56	23.57
5	1	12		23.53	23.45	23.41
5	1	24		23.49	23.40	23.62
5	12	0		22.62	22.49	22.65
5	12	7		22.61	22.50	22.63
5	12	13		22.62	22.51	22.69
5	25	0		22.59	22.56	22.65
5	1	0	16-QAM	22.57	22.54	22.75
5	1	12		22.77	22.60	22.80
5	1	24		22.71	22.78	22.75
5	12	0		21.52	21.45	21.56
5	12	7		21.60	21.49	21.65
5	12	13		21.52	21.56	21.59
5	25	0		21.50	21.60	21.53
5	1	0	64-QAM	21.49	21.54	21.58
5	1	12		21.44	21.49	21.50
5	1	24		21.48	21.46	21.64
5	12	0		20.39	20.44	20.53
5	12	7		20.33	20.50	20.64
5	12	13		20.38	20.57	20.55
5	25	0		20.40	20.61	20.53
3	1	0	QPSK	23.40	23.50	23.62
3	1	8		23.45	23.45	23.72
3	1	14		23.51	23.39	23.58
3	8	0		22.34	22.42	22.71
3	8	4		22.39	22.39	22.45
3	8	7		22.40	22.42	22.66
3	15	0		22.51	22.49	22.69
3	1	0	16-QAM	22.78	22.77	22.94
3	1	8		22.76	22.75	22.90
3	1	14		22.73	22.72	22.80
3	8	0		21.65	21.67	21.64
3	8	4		21.47	21.45	21.61
3	8	7		21.52	21.52	21.55

3	15	0		21.55	21.57	21.57
3	1	0		21.67	21.66	21.67
3	1	8		21.56	21.56	21.67
3	1	14		21.53	21.50	21.52
3	8	0	64-QAM	20.62	20.59	20.61
3	8	4		20.56	20.56	20.56
3	8	7		20.50	20.49	20.62
3	15	0		20.49	20.47	20.54

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.66	23.63	23.72
1.4	1	3		23.54	23.55	23.68
1.4	1	5		23.35	23.49	23.71
1.4	3	0		23.54	23.47	23.59
1.4	3	1		23.49	23.49	23.59
1.4	3	3		23.48	23.48	23.60
1.4	6	0		22.56	22.67	22.65
1.4	1	0	16-QAM	22.66	22.45	22.87
1.4	1	3		22.62	22.77	22.95
1.4	1	5		22.63	22.79	22.99
1.4	3	0		22.59	22.70	22.75
1.4	3	1		22.64	22.66	22.74
1.4	3	3		22.63	22.61	22.74
1.4	6	0		21.67	21.78	21.68
1.4	1	0	64-QAM	21.66	21.49	21.72
1.4	1	3		21.63	21.53	21.82
1.4	1	5		21.49	21.58	21.76
1.4	3	0		21.54	21.62	21.76
1.4	3	1		21.49	21.66	21.60
1.4	3	3		21.53	21.56	21.66
1.4	6	0		20.61	20.63	20.49

LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.19	23.09	23.04
20	1	49		22.87	22.94	22.96
20	1	99		23.15	23.27	23.20
20	50	0		22.01	22.20	22.20
20	50	24		22.05	22.12	22.13
20	50	50		22.03	22.01	22.05
20	100	0		21.94	22.17	22.16
20	1	0	16-QAM	22.19	22.33	22.23
20	1	49		21.96	21.98	21.93
20	1	99		22.16	22.20	22.16
20	50	0		20.91	21.08	21.12
20	50	24		20.90	21.01	21.03
20	50	50		20.90	21.02	20.86
20	100	0		21.06	21.15	21.03
20	1	0	64-QAM	21.14	21.09	20.96
20	1	49		20.97	21.09	20.97
20	1	99		21.04	21.27	21.06
20	50	0		20.11	20.06	20.03
20	50	24		19.96	19.99	19.95
20	50	50		19.91	19.99	19.99
20	100	0		20.02	20.04	20.04
15	1	0	QPSK	22.85	22.78	23.00
15	1	37		22.59	22.66	22.75
15	1	74		22.94	23.02	22.80
15	36	0		21.84	21.95	21.86
15	36	20		21.80	21.96	21.85
15	36	39		21.94	21.99	22.04
15	75	0		21.77	21.96	21.99
15	1	0	16-QAM	21.90	21.91	21.98
15	1	37		21.72	21.71	21.79
15	1	74		21.95	21.97	21.82
15	36	0		20.72	20.85	20.78
15	36	20		20.89	20.94	20.97

15	36	39		20.84	20.99	21.03
15	75	0		20.90	20.96	20.94
15	1	0		21.80	21.88	22.13
15	1	37		21.81	21.79	21.79
15	1	74		22.02	22.04	22.08
15	36	0	64-QAM	20.04	20.23	20.21
15	36	20		20.12	20.26	20.28
15	36	39		20.18	20.32	20.25
15	75	0		20.22	20.26	20.22

LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.75	22.87	23.00
10	1	25		22.83	22.95	23.02
10	1	49		22.85	22.99	22.92
10	25	0		21.78	21.96	21.79
10	25	12		21.78	21.94	21.98
10	25	25		21.91	22.01	22.02
10	50	0		21.78	21.95	21.98
10	1	0	16-QAM	21.79	21.81	21.74
10	1	25		21.91	21.97	21.91
10	1	49		21.88	22.01	21.96
10	25	0		20.81	20.91	20.90
10	25	12		20.81	20.93	20.90
10	25	25		20.79	20.81	20.83
10	50	0		20.84	20.93	20.96
10	1	0	64-QAM	21.82	21.98	21.76
10	1	25		21.89	21.93	21.84
10	1	49		21.92	21.95	21.75
10	25	0		20.13	20.18	20.05
10	25	12		20.13	20.20	19.97
10	25	25		20.11	20.11	20.06
10	50	0		20.16	20.16	20.26
5	1	0	QPSK	22.96	22.88	22.96
5	1	12		22.89	23.00	22.84
5	1	24		22.86	22.99	22.82
5	12	0		21.76	21.99	21.99
5	12	7		21.95	21.93	21.88
5	12	13		21.89	21.91	21.92
5	25	0		21.93	21.92	21.88
5	1	0	16-QAM	21.68	21.92	22.08
5	1	12		21.65	21.71	22.06
5	1	24		21.87	21.98	21.95
5	12	0		20.87	20.92	20.83
5	12	7		20.83	20.95	20.75

5	12	13		20.77	20.91	20.91
5	25	0		20.79	20.90	20.89
5	1	0		21.96	21.84	21.93
5	1	12		21.66	21.77	21.62
5	1	24		21.99	22.03	21.68
5	12	0	64-QAM	20.22	20.24	20.07
5	12	7		20.18	20.27	20.23
5	12	13		20.13	20.26	20.13
5	25	0		20.10	20.22	20.20

LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.86	22.88	22.82
20	1	49		22.85	22.81	22.85
20	1	99		23.04	22.99	23.00
20	50	0		21.91	21.86	21.81
20	50	24		21.80	21.88	21.74
20	50	50		21.84	21.93	21.81
20	100	0		21.87	21.90	21.78
20	1	0	16-QAM	21.91	21.89	21.72
20	1	49		21.72	21.77	21.67
20	1	99		21.93	21.89	21.84
20	50	0		20.88	20.82	20.73
20	50	24		20.76	20.76	20.86
20	50	50		20.83	20.80	20.87
20	100	0		20.83	20.82	20.90
20	1	0	64-QAM	20.92	20.71	20.83
20	1	49		20.72	20.70	20.60
20	1	99		21.09	20.89	20.93
20	50	0		19.89	19.81	19.72
20	50	24		19.73	19.81	19.86
20	50	50		19.80	19.85	19.75
20	100	0		19.81	19.94	19.88
15	1	0	QPSK	22.70	22.74	22.92
15	1	37		22.81	22.81	22.79
15	1	74		22.80	22.88	22.77
15	36	0		21.87	21.82	21.80
15	36	20		21.78	21.85	21.89
15	36	39		21.82	21.78	21.77
15	75	0		21.78	21.90	21.91
15	1	0	16-QAM	21.90	21.76	21.99
15	1	37		21.78	21.61	21.88
15	1	74		21.89	21.87	22.00
15	36	0		20.79	20.85	20.75
15	36	20		20.69	20.85	20.82

15	36	39		20.73	20.82	20.78
15	75	0		20.71	20.80	20.84
15	1	0		20.72	20.74	20.99
15	1	37		20.57	20.70	20.78
15	1	74		20.69	20.82	20.86
15	36	0	64-QAM	19.81	19.73	19.75
15	36	20		19.69	19.89	19.83
15	36	39		19.75	19.81	19.80
15	75	0		19.72	19.79	19.86

LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.71	22.70	22.75
10	1	25		22.84	22.74	22.73
10	1	49		22.71	22.96	22.79
10	25	0		21.84	21.71	21.80
10	25	12		21.79	21.82	21.75
10	25	25		21.74	21.91	21.80
10	50	0		21.75	21.84	21.76
10	1	0	16-QAM	21.81	21.66	21.86
10	1	25		21.81	21.68	21.95
10	1	49		21.77	21.79	21.77
10	25	0		20.76	20.79	20.88
10	25	12		20.66	20.83	20.85
10	25	25		20.65	20.81	20.73
10	50	0		20.67	20.77	20.71
10	1	0	64-QAM	20.88	20.87	20.83
10	1	25		20.84	20.89	20.82
10	1	49		20.83	20.90	20.88
10	25	0		19.76	19.81	19.70
10	25	12		19.69	19.88	19.66
10	25	25		19.68	19.81	19.73
10	50	0		19.69	19.90	19.69
5	1	0	QPSK	22.68	22.72	22.91
5	1	12		22.55	22.71	22.65
5	1	24		22.72	22.77	22.81
5	12	0		21.79	21.88	21.80
5	12	7		21.77	21.92	21.73
5	12	13		21.88	21.84	21.77
5	25	0		21.78	21.88	21.83
5	1	0	16-QAM	21.90	21.82	21.83
5	1	12		21.77	21.68	21.70
5	1	24		21.82	21.77	21.82
5	12	0		20.74	20.81	20.73
5	12	7		20.70	20.74	20.86

5	12	13		20.83	20.83	20.82
5	25	0		20.71	20.82	20.80
5	1	0		20.74	20.66	20.74
5	1	12		20.67	20.70	20.65
5	1	24		20.75	20.88	20.80
5	12	0	64-QAM	19.71	19.77	19.71
5	12	7		19.67	19.70	19.65
5	12	13		19.59	19.81	19.81
5	25	0		19.68	19.83	19.81

ERP/EIRP

Bottom Antenna:

LTE Band 2 (GT - LC = 0.00 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	23.20	23.17	23.17	23.18	23.11	23.09	22.91	22.99	23.17
Conducted Power (Watts)	0.2089	0.2075	0.2075	0.2080	0.2046	0.2037	0.1954	0.1991	0.2075
EIRP(dBm)	23.20	23.17	23.17	23.18	23.11	23.09	22.91	22.99	23.17
EIRP(Watts)	0.2089	0.2075	0.2075	0.2080	0.2046	0.2037	0.1954	0.1991	0.2075

LTE Band 2 (GT - LC = 0.00 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	23.17	22.97	23.08	23.18	23.02	23.15	23.22	23.17	23.24
Conducted Power (Watts)	0.2075	0.1982	0.2032	0.2080	0.2004	0.2065	0.2099	0.2075	0.2109
EIRP(dBm)	23.17	22.97	23.08	23.18	23.02	23.15	23.22	23.17	23.24
EIRP(Watts)	0.2075	0.1982	0.2032	0.2080	0.2004	0.2065	0.2099	0.2075	0.2109

LTE Band 2 (GT - LC = 0.00 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	22.62	22.37	22.58	22.53	22.27	22.58	22.14	22.25	22.46
Conducted Power (Watts)	0.1828	0.1726	0.1811	0.1791	0.1687	0.1811	0.1637	0.1679	0.1762
EIRP(dBm)	22.62	22.37	22.58	22.53	22.27	22.58	22.14	22.25	22.46
EIRP(Watts)	0.1828	0.1726	0.1811	0.1791	0.1687	0.1811	0.1637	0.1679	0.1762

LTE Band 2 (GT - LC = 0.00 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	22.35	22.26	22.44	22.49	22.24	22.52	22.48	22.43	22.62
Conducted Power (Watts)	0.1718	0.1683	0.1754	0.1774	0.1675	0.1786	0.1770	0.1750	0.1828
EIRP(dBm)	22.35	22.26	22.44	22.49	22.24	22.52	22.48	22.43	22.62
EIRP(Watts)	0.1718	0.1683	0.1754	0.1774	0.1675	0.1786	0.1770	0.1750	0.1828

LTE Band 2 (GT - LC = 0.00 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
Conducted Power (dBm)	21.14	21.07	21.27	21.28	21.08	21.28	21.02	20.98	21.08
Conducted Power (Watts)	0.1300	0.1279	0.1340	0.1343	0.1282	0.1343	0.1265	0.1253	0.1282
EIRP(dBm)	21.14	21.07	21.27	21.28	21.08	21.28	21.02	20.98	21.08
EIRP(Watts)	0.1300	0.1279	0.1340	0.1343	0.1282	0.1343	0.1265	0.1253	0.1282

LTE Band 2 (GT - LC = 0.00 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
Conducted Power (dBm)	20.91	20.87	21.10	20.94	20.87	21.22	21.21	21.15	21.10
Conducted Power (Watts)	0.1233	0.1222	0.1288	0.1242	0.1222	0.1324	0.1321	0.1303	0.1288
EIRP(dBm)	20.91	20.87	21.10	20.94	20.87	21.22	21.21	21.15	21.10
EIRP(Watts)	0.1233	0.1222	0.1288	0.1242	0.1222	0.1324	0.1321	0.1303	0.1288

LTE Band 4 (GT - LC = 0.00 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	23.04	22.90	22.95	22.76	22.94	22.96	22.69	22.79	22.91
Conducted Power (Watts)	0.2014	0.1950	0.1972	0.1888	0.1968	0.1977	0.1858	0.1901	0.1954
EIRP(dBm)	23.04	22.90	22.95	22.76	22.94	22.96	22.69	22.79	22.91
EIRP(Watts)	0.2014	0.1950	0.1972	0.1888	0.1968	0.1977	0.1858	0.1901	0.1954

LTE Band 4 (GT - LC = 0.00 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
Conducted Power (dBm)	22.91	22.82	22.83	22.95	22.90	22.82	23.00	22.92	22.79
Conducted Power (Watts)	0.1954	0.1914	0.1919	0.1972	0.1950	0.1914	0.1995	0.1959	0.1901
EIRP(dBm)	22.91	22.82	22.83	22.95	22.90	22.82	23.00	22.92	22.79
EIRP(Watts)	0.1954	0.1914	0.1919	0.1972	0.1950	0.1914	0.1995	0.1959	0.1901

LTE Band 4 (GT - LC = 0.00 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	22.21	22.26	22.30	21.99	22.21	22.14	21.97	22.00	22.19
Conducted Power (Watts)	0.1663	0.1683	0.1698	0.1581	0.1663	0.1637	0.1574	0.1585	0.1656
EIRP(dBm)	22.21	22.26	22.30	21.99	22.21	22.14	21.97	22.00	22.19
EIRP(Watts)	0.1663	0.1683	0.1698	0.1581	0.1663	0.1637	0.1574	0.1585	0.1656

LTE Band 4 (GT - LC = 0.00 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
Conducted Power (dBm)	22.05	22.21	22.20	22.17	22.06	22.22	22.23	22.19	22.16
Conducted Power (Watts)	0.1603	0.1663	0.1660	0.1648	0.1607	0.1667	0.1671	0.1656	0.1644
EIRP(dBm)	22.05	22.21	22.20	22.17	22.06	22.22	22.23	22.19	22.16
EIRP(Watts)	0.1603	0.1663	0.1660	0.1648	0.1607	0.1667	0.1671	0.1656	0.1644

LTE Band 4 (GT - LC =0.00 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
Conducted Power (dBm)	21.25	21.04	20.96	21.12	21.01	20.99	21.07	20.77	20.87
Conducted Power (Watts)	0.1334	0.1271	0.1247	0.1294	0.1262	0.1256	0.1279	0.1194	0.1222
EIRP(dBm)	21.25	21.04	20.96	21.12	21.01	20.99	21.07	20.77	20.87
EIRP(Watts)	0.1334	0.1271	0.1247	0.1294	0.1262	0.1256	0.1279	0.1194	0.1222

LTE Band 4 (GT - LC = 0.00 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
Conducted Power (dBm)	21.02	20.87	20.87	21.05	20.91	20.87	21.00	21.10	21.07
Conducted Power (Watts)	0.1265	0.1222	0.1222	0.1274	0.1233	0.1222	0.1259	0.1288	0.1279
EIRP(dBm)	21.02	20.87	20.87	21.05	20.91	20.87	21.00	21.10	21.07
EIRP(Watts)	0.1265	0.1222	0.1222	0.1274	0.1233	0.1222	0.1259	0.1288	0.1279

LTE Band 5 (GT - LC = -3.60 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)	23.97	24.00	24.07	24.04	24.06	23.90	23.97	23.94	24.04
Conducted Power (Watts)	0.2495	0.2512	0.2553	0.2535	0.2547	0.2455	0.2495	0.2477	0.2535
ERP(dBm)	18.22	18.25	18.32	18.29	18.31	18.15	18.22	18.19	18.29
ERP(Watts)	0.0664	0.0668	0.0679	0.0675	0.0678	0.0653	0.0664	0.0659	0.0675

LTE Band 5 (GT - LC = -3.60 dB) QPSK			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency (MHz)	829	836.5	844
Conducted Power (dBm)	24.10	23.99	24.00
Conducted Power (Watts)	0.2570	0.2506	0.2512
ERP(dBm)	18.35	18.24	18.25
ERP(Watts)	0.0684	0.0667	0.0668

LTE Band 5 (GT - LC = -3.60 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)	23.26	23.47	23.28	23.25	23.30	23.38	23.41	23.28	23.34
Conducted Power (Watts)	0.2118	0.2223	0.2128	0.2113	0.2138	0.2178	0.2193	0.2128	0.2158
ERP(dBm)	17.51	17.72	17.53	17.50	17.55	17.63	17.66	17.53	17.59
ERP(Watts)	0.0564	0.0592	0.0566	0.0562	0.0569	0.0579	0.0583	0.0566	0.0574

LTE Band 5 (GT - LC = -3.60 dB) 16QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency (MHz)	829	836.5	844
Conducted Power (dBm)	23.08	22.93	22.81
Conducted Power (Watts)	0.2032	0.1963	0.1910
ERP(dBm)	17.33	17.18	17.06
ERP(Watts)	0.0541	0.0522	0.0508

LTE Band 5 (GT - LC = -3.60 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)	22.19	22.11	22.07	22.05	22.20	22.14	22.02	22.12	22.14
Conducted Power (Watts)	0.1656	0.1626	0.1611	0.1603	0.1660	0.1637	0.1592	0.1629	0.1637
ERP(dBm)	16.44	16.36	16.32	16.30	16.45	16.39	16.27	16.37	16.39
ERP(Watts)	0.0441	0.0433	0.0429	0.0427	0.0442	0.0436	0.0424	0.0434	0.0436

LTE Band 5 (GT - LC = -3.60 dB) 64QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency (MHz)	829	836.5	844
Conducted Power (dBm)	22.15	22.21	22.16
Conducted Power (Watts)	0.1641	0.1663	0.1644
ERP(dBm)	16.40	16.46	16.41
ERP(Watts)	0.0437	0.0443	0.0438

LTE Band 7 (GT - LC = -0.10 dB) QPSK			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	23.02	23.11	22.73
Conducted Power (Watts)	0.2004	0.2046	0.1875
EIRP(dBm)	22.92	23.01	22.63
EIRP(Watts)	0.1959	0.2000	0.1832

LTE Band 7 (GT - LC =-0.10 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)	23.26	23.32	23.13	23.15	23.29	23.23	23.04	23.39	22.98
Conducted Power (Watts)	0.2118	0.2148	0.2056	0.2065	0.2133	0.2104	0.2014	0.2183	0.1986
EIRP(dBm)	23.16	23.22	23.03	23.05	23.19	23.13	22.94	23.29	22.88
EIRP(Watts)	0.2070	0.2099	0.2009	0.2018	0.2084	0.2056	0.1968	0.2133	0.1941

LTE Band 7 (GT - LC = -0.10 dB) 16QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	22.56	22.44	22.31
Conducted Power (Watts)	0.1803	0.1754	0.1702
EIRP(dBm)	22.46	22.34	22.21
EIRP(Watts)	0.1762	0.1714	0.1663

LTE Band 7 (GT - LC = -0.10 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)	22.34	22.53	22.39	22.17	22.47	22.39	22.45	22.53	22.26
Conducted Power (Watts)	0.1714	0.1791	0.1734	0.1648	0.1766	0.1734	0.1758	0.1791	0.1683
EIRP(dBm)	22.24	22.43	22.29	22.07	22.37	22.29	22.35	22.43	22.16
EIRP(Watts)	0.1675	0.1750	0.1694	0.1611	0.1726	0.1694	0.1718	0.1750	0.1644

LTE Band 7 (GT - LC = -0.10 dB) 64QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency (MHz)	2502.5	2535	2567.5
Conducted Power (dBm)	21.14	21.52	21.52
Conducted Power (Watts)	0.1300	0.1419	0.1419
EIRP(dBm)	21.04	21.42	21.42
EIRP(Watts)	0.1271	0.1387	0.1387

LTE Band 7 (GT - LC = -0.10 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)	21.50	21.16	21.60	21.29	21.43	21.62	21.43	21.68	21.39
Conducted Power (Watts)	0.1413	0.1306	0.1445	0.1346	0.1390	0.1452	0.1390	0.1472	0.1377
EIRP(dBm)	21.40	21.06	21.50	21.19	21.33	21.52	21.33	21.58	21.29
EIRP(Watts)	0.1380	0.1276	0.1413	0.1315	0.1358	0.1419	0.1358	0.1439	0.1346

LTE Band 26 (GT - LC = -3.60 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	23.66	23.63	23.72	23.45	23.45	23.72	23.49	23.40	23.62
Conducted Power (Watts)	0.2323	0.2307	0.2355	0.2213	0.2213	0.2355	0.2234	0.2188	0.2301
ERP(dBm)	17.91	17.88	17.97	17.70	17.70	17.97	17.74	17.65	17.87
ERP(Watts)	0.0618	0.0614	0.0627	0.0589	0.0589	0.0627	0.0594	0.0582	0.0612

LTE Band 26 (GT - LC = -3.60 dB) QPSK							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency (MHz)	829	836.5	844	831.5	836.5	841.5	821.5
Conducted Power (dBm)	23.56	23.62	23.64	23.68	23.60	23.65	23.75
Conducted Power (Watts)	0.2270	0.2301	0.2312	0.2333	0.2291	0.2317	0.2371
ERP(dBm)	17.81	17.87	17.89	17.93	17.85	17.90	18.00
ERP(Watts)	0.0604	0.0612	0.0615	0.0621	0.0610	0.0617	0.0631

LTE Band 26 (GT - LC = -3.60 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	22.63	22.79	22.99	22.78	22.77	22.94	22.77	22.60	22.80
Conducted Power (Watts)	0.1832	0.1901	0.1991	0.1897	0.1892	0.1968	0.1892	0.1820	0.1905
ERP(dBm)	16.88	17.04	17.24	17.03	17.02	17.19	17.02	16.85	17.05
ERP(Watts)	0.0488	0.0506	0.0530	0.0505	0.0504	0.0524	0.0504	0.0484	0.0507

LTE Band 26 (GT - LC = -3.60 dB) 16QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency (MHz)	829	836.5	844	831.5	836.5	841.5	821.5
Conducted Power (dBm)	22.72	22.61	22.85	22.72	22.65	22.86	22.93
Conducted Power (Watts)	0.1871	0.1824	0.1928	0.1871	0.1841	0.1932	0.1963
ERP(dBm)	16.97	16.86	17.10	16.97	16.90	17.11	17.18
ERP(Watts)	0.0498	0.0485	0.0513	0.0498	0.0490	0.0514	0.0522

LTE Band 26 (GT - LC = -3.60 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
Conducted Power (dBm)	21.63	21.53	21.82	21.67	21.66	21.67	21.48	21.46	21.64
Conducted Power (Watts)	0.1455	0.1422	0.1521	0.1469	0.1466	0.1469	0.1406	0.1400	0.1459
ERP(dBm)	15.88	15.78	16.07	15.92	15.91	15.92	15.73	15.71	15.89
ERP(Watts)	0.0387	0.0378	0.0405	0.0391	0.0390	0.0391	0.0374	0.0372	0.0388

LTE Band 26 (GT - LC = -3.60 dB) 64QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency (MHz)	829	836.5	844	831.5	836.5	841.5	821.5
Conducted Power (dBm)	21.72	21.66	21.78	21.60	21.70	21.74	21.70
Conducted Power (Watts)	0.1486	0.1466	0.1507	0.1445	0.1479	0.1493	0.1479
ERP(dBm)	15.97	15.91	16.03	15.85	15.95	15.99	15.95
ERP(Watts)	0.0395	0.0390	0.0401	0.0385	0.0394	0.0397	0.0394

LTE Band 38 (GT - LC = -0.10 dB) QPSK			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency (MHz)	2572.5	2595	2617.5
Conducted Power (dBm)	22.89	23.00	22.84
Conducted Power (Watts)	0.1945	0.1995	0.1923
EIRP(dBm)	22.79	22.90	22.74
EIRP(Watts)	0.1901	0.1950	0.1879

LTE Band 38 (GT - LC = -0.10 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)	22.83	22.95	23.02	22.94	23.02	22.80	23.15	23.27	23.20
Conducted Power (Watts)	0.1919	0.1972	0.2004	0.1968	0.2004	0.1905	0.2065	0.2123	0.2089
EIRP(dBm)	22.73	22.85	22.92	22.84	22.92	22.70	23.05	23.17	23.10
EIRP(Watts)	0.1875	0.1928	0.1959	0.1923	0.1959	0.1862	0.2018	0.2075	0.2042

LTE Band 38 (GT - LC = -0.10 dB) 16QAM			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency (MHz)	2572.5	2595	2617.5
Conducted Power (dBm)	21.68	21.92	22.08
Conducted Power (Watts)	0.1472	0.1556	0.1614
EIRP(dBm)	21.58	21.82	21.98
EIRP(Watts)	0.1439	0.1521	0.1578

LTE Band 38 (GT - LC = -0.10 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)	21.88	22.01	21.96	21.90	21.91	21.98	22.19	22.33	22.23
Conducted Power (Watts)	0.1542	0.1589	0.1570	0.1549	0.1552	0.1578	0.1656	0.1710	0.1671
EIRP(dBm)	21.78	21.91	21.86	21.80	21.81	21.88	22.09	22.23	22.13
EIRP(Watts)	0.1507	0.1552	0.1535	0.1514	0.1517	0.1542	0.1618	0.1671	0.1633

LTE Band 38 (GT - LC = -0.10 dB) 64QAM			
Bandwidth	5M		
Channel	37775	38000	38225
	(Low)	(Mid)	(High)
Frequency (MHz)	2572.5	2595	2617.5
Conducted Power (dBm)	21.99	22.03	21.68
Conducted Power (Watts)	0.1581	0.1596	0.1472
EIRP(dBm)	21.89	21.93	21.58
EIRP(Watts)	0.1545	0.1560	0.1439

LTE Band 38 (GT - LC = -0.10 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)	21.82	21.98	21.76	21.80	21.88	22.13	21.04	21.27	21.06
Conducted Power (Watts)	0.1521	0.1578	0.1500	0.1514	0.1542	0.1633	0.1271	0.1340	0.1276
EIRP(dBm)	21.72	21.88	21.66	21.70	21.78	22.03	20.94	21.17	20.96
EIRP(Watts)	0.1486	0.1542	0.1466	0.1479	0.1507	0.1596	0.1242	0.1309	0.1247

LTE Band 41 (G_T - L_C = -0.10 dB) QPSK									
Bandwidth	5M			10M			15M		
Channel	40165	40690	41215	40190	40690	41190	40215	40690	41165
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2547.5	2600	2652.5	2550	2600	2650	2552.5	2600	2647.5
Conducted Power (dBm)	22.68	22.72	22.91	22.71	22.96	22.79	22.70	22.74	22.92
Conducted Power (Watts)	0.1854	0.1871	0.1954	0.1866	0.1977	0.1901	0.1862	0.1879	0.1959
EIRP(dBm)	22.58	22.62	22.81	22.61	22.86	22.69	22.60	22.64	22.82
EIRP(Watts)	0.1811	0.1828	0.1910	0.1824	0.1932	0.1858	0.1820	0.1837	0.1914

LTE Band 41 (G_T - L_C = -0.10 dB) QPSK			
Bandwidth	20M		
Channel	40240	40690	41140
	(Low)	(Mid)	(High)
Frequency (MHz)	2555	2600	2645
Conducted Power (dBm)	23.04	22.99	23.00
Conducted Power (Watts)	0.2014	0.1991	0.1995
EIRP(dBm)	22.94	22.89	22.90
EIRP(Watts)	0.1968	0.1945	0.1950

LTE Band 41 (G_T - L_C = -0.10 dB) 16QAM									
Bandwidth	5M			10M			15M		
Channel	40165	40690	41215	40190	40690	41190	40215	40690	41165
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2547.5	2600	2652.5	2550	2600	2650	2552.5	2600	2647.5
Conducted Power (dBm)	21.90	21.82	21.83	21.81	21.68	21.95	21.89	21.87	22.00
Conducted Power (Watts)	0.1549	0.1521	0.1524	0.1517	0.1472	0.1567	0.1545	0.1538	0.1585
EIRP(dBm)	21.80	21.72	21.73	21.71	21.58	21.85	21.79	21.77	21.90
EIRP(Watts)	0.1514	0.1486	0.1489	0.1483	0.1439	0.1531	0.1510	0.1503	0.1549

LTE Band 41 (G_T - L_C = -0.10 dB) 16QAM			
Bandwidth	20M		
Channel	40240	40690	41140
	(Low)	(Mid)	(High)
Frequency (MHz)	2555	2600	2645
Conducted Power (dBm)	21.93	21.89	21.84
Conducted Power (Watts)	0.1560	0.1545	0.1528
EIRP(dBm)	21.83	21.79	21.74
EIRP(Watts)	0.1524	0.1510	0.1493

LTE Band 41 (G_T - L_C = -0.10 dB) 64QAM									
Bandwidth	5M			10M			15M		
Channel	40165	40690	41215	40190	40690	41190	40215	40690	41165
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	2547.5	2600	2652.5	2550	2600	2650	2552.5	2600	2647.5
Conducted Power (dBm)	20.75	20.88	20.80	20.83	20.90	20.88	20.72	20.74	20.99
Conducted Power (Watts)	0.1189	0.1225	0.1202	0.1211	0.1230	0.1225	0.1180	0.1186	0.1256
EIRP(dBm)	20.65	20.78	20.70	20.73	20.80	20.78	20.62	20.64	20.89
EIRP(Watts)	0.1161	0.1197	0.1175	0.1183	0.1202	0.1197	0.1153	0.1159	0.1227

LTE Band 41 (G_T - L_C = -0.10 dB) 64QAM			
Bandwidth	20M		
Channel	40240	40690	41140
	(Low)	(Mid)	(High)
Frequency (MHz)	2555	2600	2645
Conducted Power (dBm)	21.09	20.89	20.93
Conducted Power (Watts)	0.1285	0.1227	0.1239
EIRP(dBm)	20.99	20.79	20.83
EIRP(Watts)	0.1256	0.1199	0.1211

Peak-to-Average Ratio

Mode	LTE Band 2 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.14	4.96	4.32	5.3	PASS
Middle CH	4.2	4.96	3.91	5.28	
Highest CH	3.91	4.75	3.88	5.42	
Mode	LTE Band 2 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.04	5.88			PASS
Middle CH	5.39	5.74			
Highest CH	4.46	5.97			

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.88	5.04	4.84	6.09	PASS
Middle CH	4.29	4.93	5.28	5.86	
Highest CH	4.00	4.87	4.99	5.83	
Mode	LTE Band 4 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	4.72	5.88			PASS
Middle CH	4.99	5.80			
Highest CH	5.04	5.74			

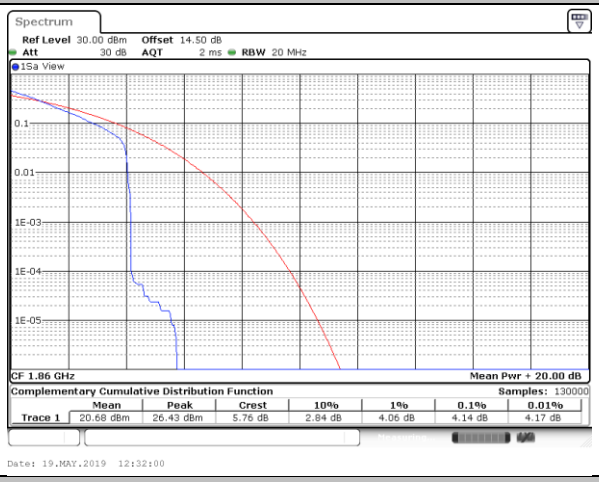
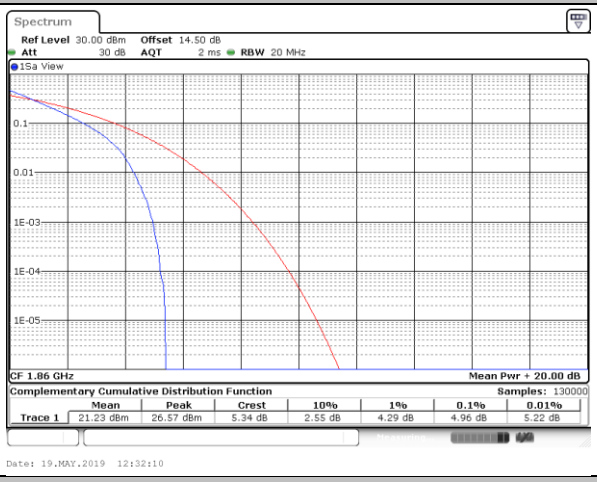
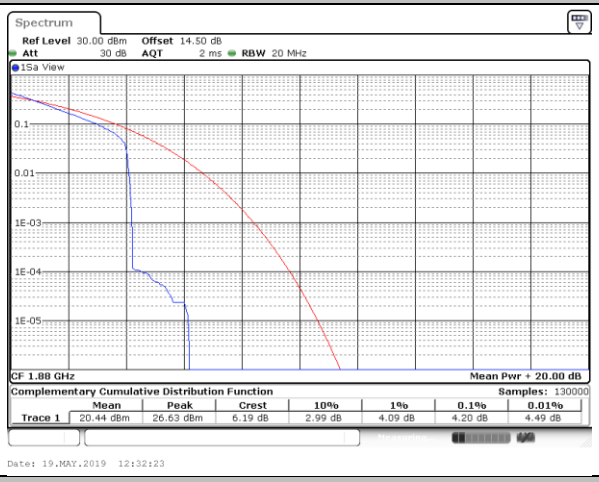
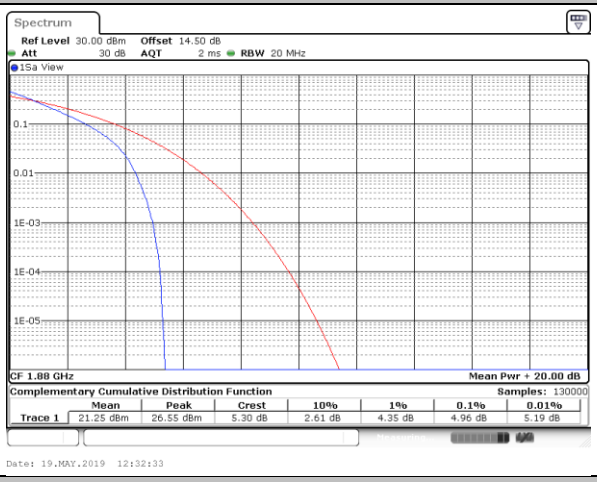
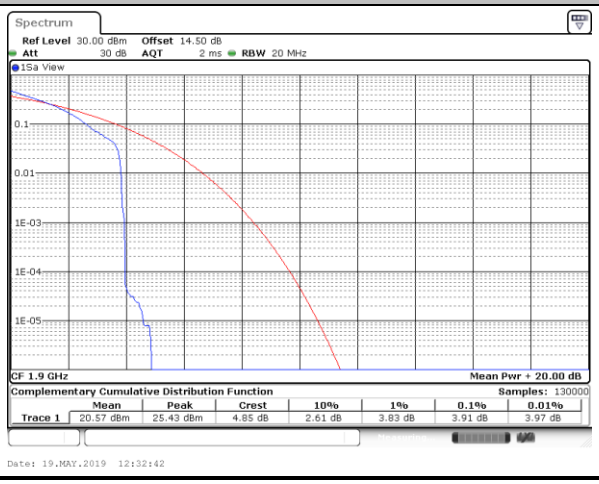
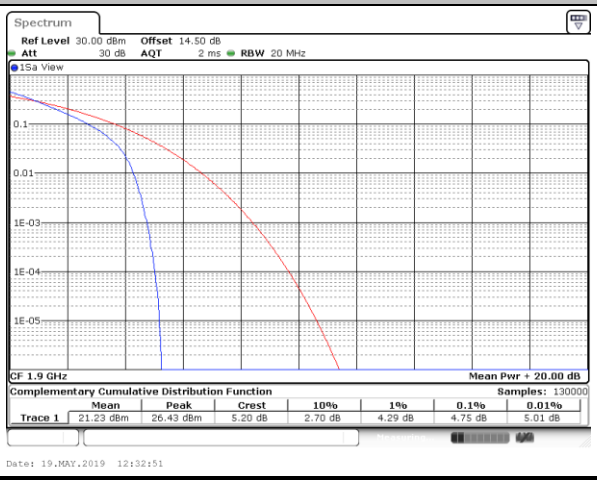
Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.23	4.87	5.04	5.8	PASS
Middle CH	4.52	5.16	5.16	6	
Highest CH	4.75	4.99	5.65	6.03	
Mode	LTE Band 5 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.19	5.86			PASS
Middle CH	5.22	6.03			
Highest CH	5.94	6.00			

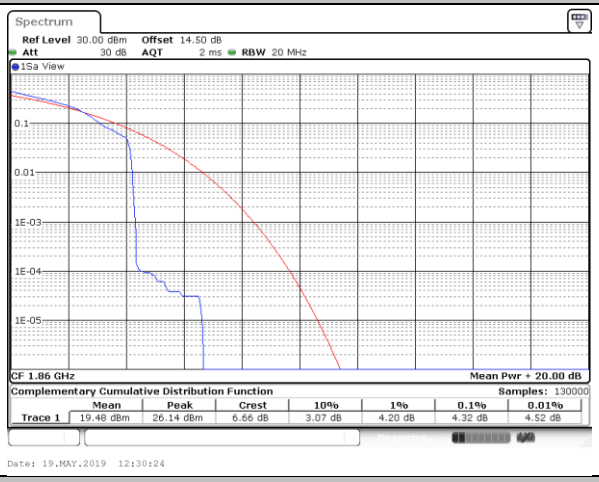
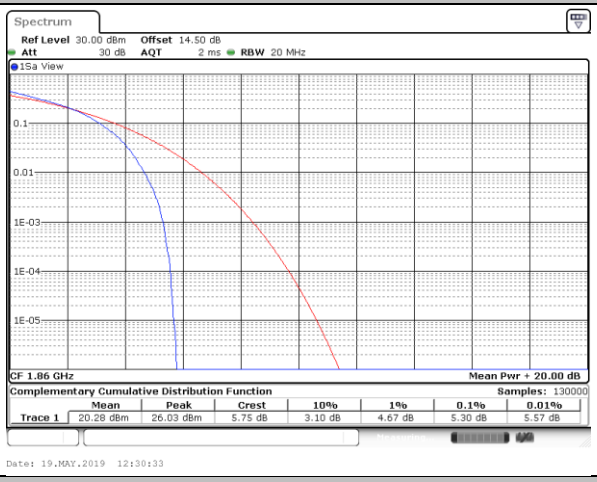
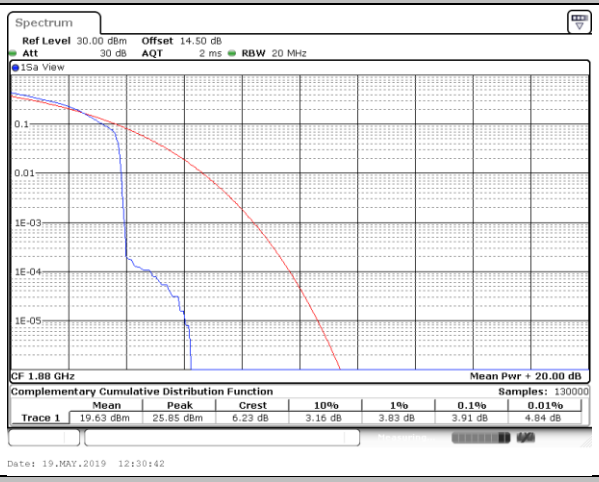
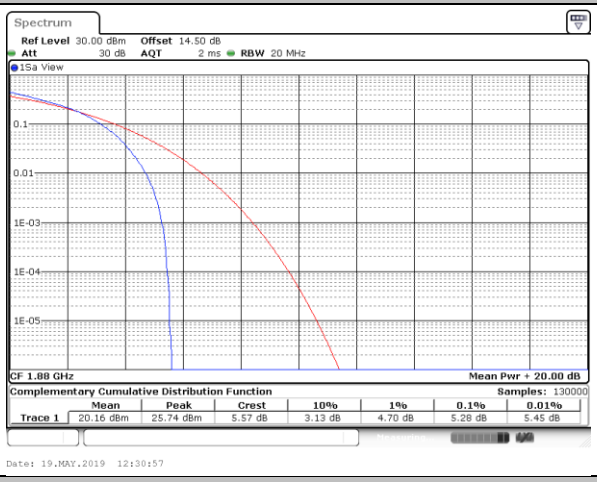
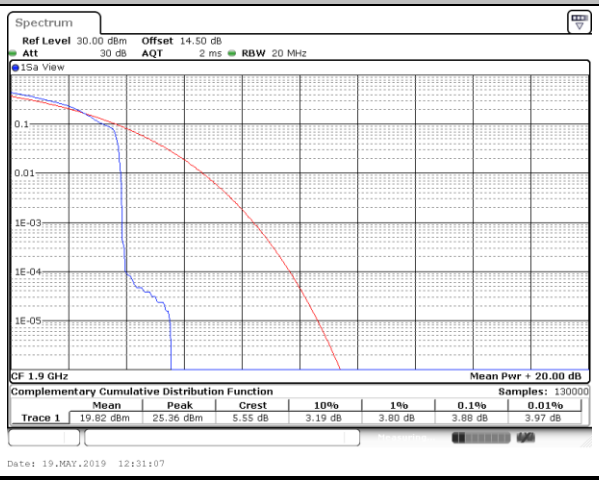
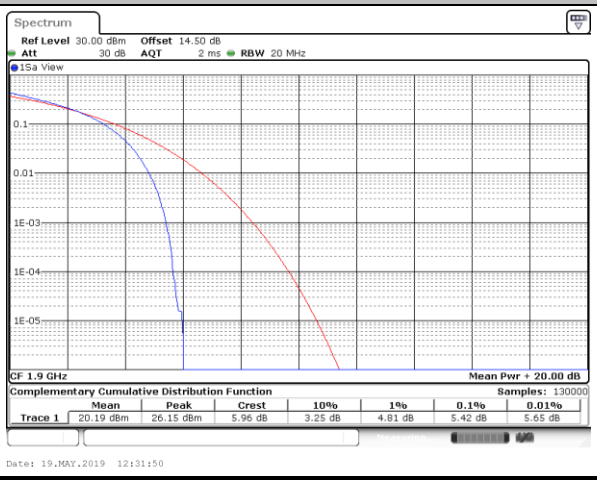
Mode	LTE Band 7 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.91	4.72	4.35	5.28	PASS
Middle CH	4.32	4.81	4.87	5.45	
Highest CH	4	5.07	4.78	5.83	
Mode	LTE Band 7 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	4.26	5.3			PASS
Middle CH	4.81	5.51			
Highest CH	4.72	5.74			

Mode	LTE Band 26 / 15MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.49	5.33	4.99	6.09	PASS
Middle CH	4.58	5.42	5.68	6.17	
Highest CH	4.72	5.45	6.03	6.26	
Mode	LTE Band 26 / 15MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.74	6.14			PASS
Middle CH	5.42	6.20			
Highest CH	5.62	6.20			

Mode	LTE Band 38 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.94	5.65	6.2	6.32	PASS
Middle CH	5.62	6.03	6.41	7.1	
Highest CH	5.94	6.49	6.23	7.19	
Mode	LTE Band 38 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.23	6.49			PASS
Middle CH	6.61	6.67			
Highest CH	6.41	7.04			

Mode	LTE Band 41 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	6.32	5.1	5.83	6.32	PASS
Middle CH	6.41	5.16	5.77	5.88	
Highest CH	4.99	5.39	6.64	6.46	
Mode	LTE Band 41/ 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.42	6.29			PASS
Middle CH	4.96	6.78			
Highest CH	6.06	6.75			

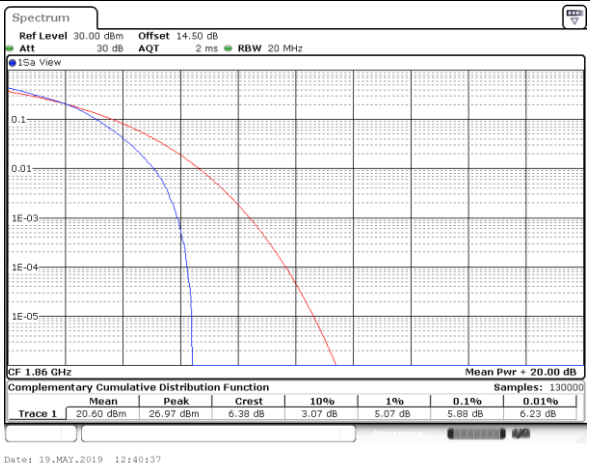
LTE Band 2 / 20MHz / QPSK	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

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**
	

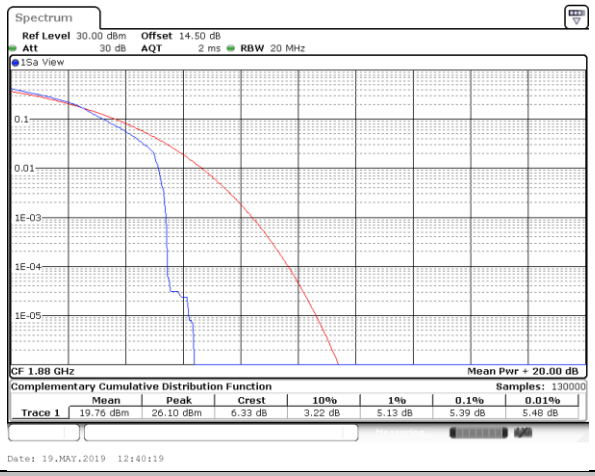
LTE Band 2 / 20MHz / 64QAM

Lowest Channel / 1RB

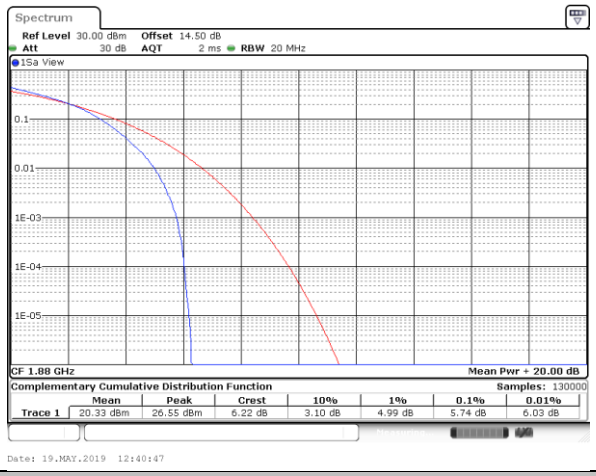
Lowest Channel / Full RB



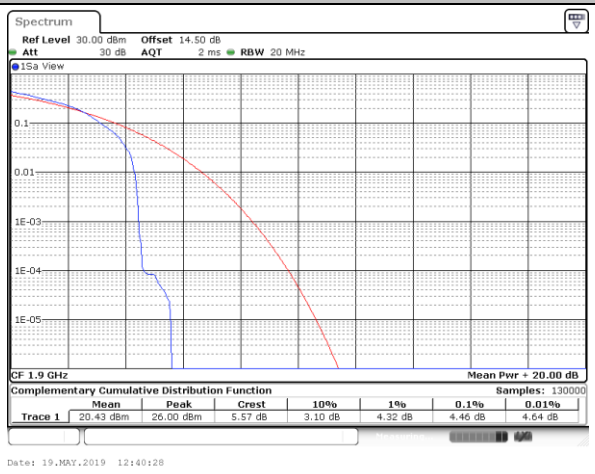
Middle Channel / 1RB



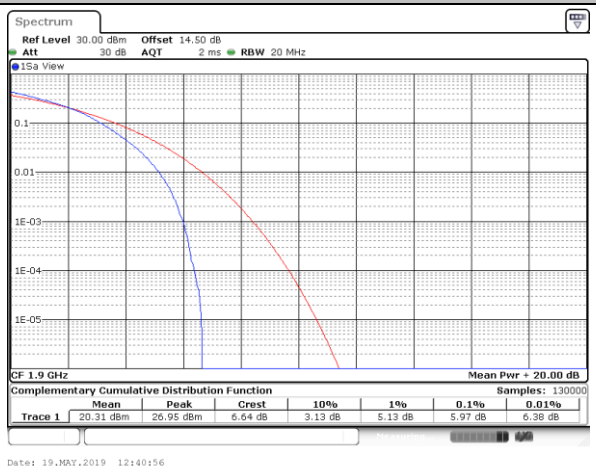
Middle Channel / Full RB

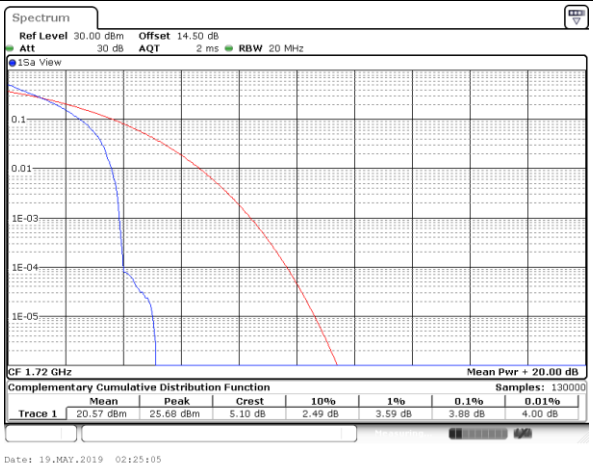
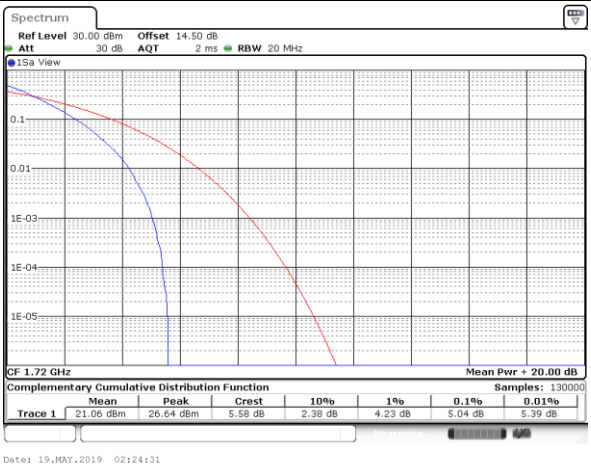
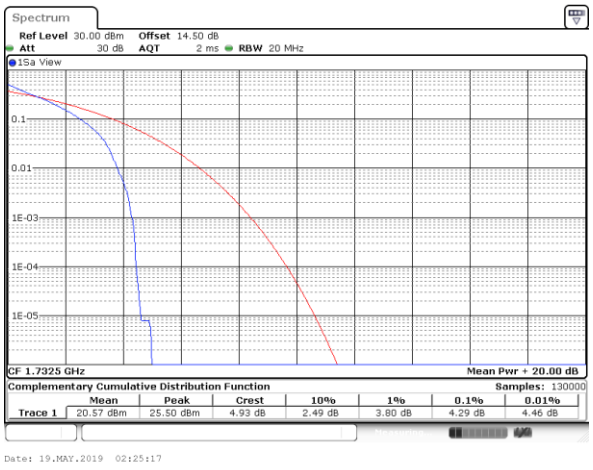
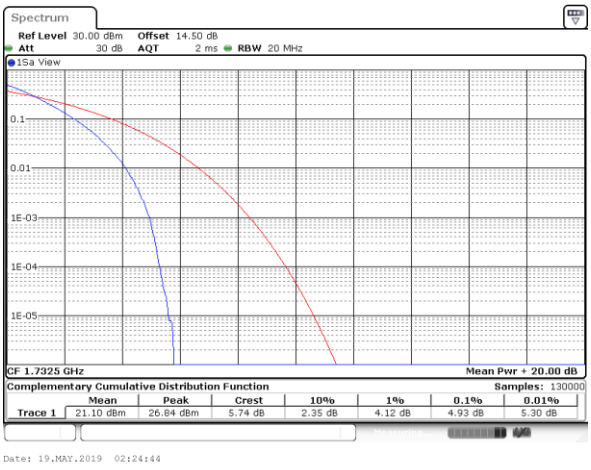
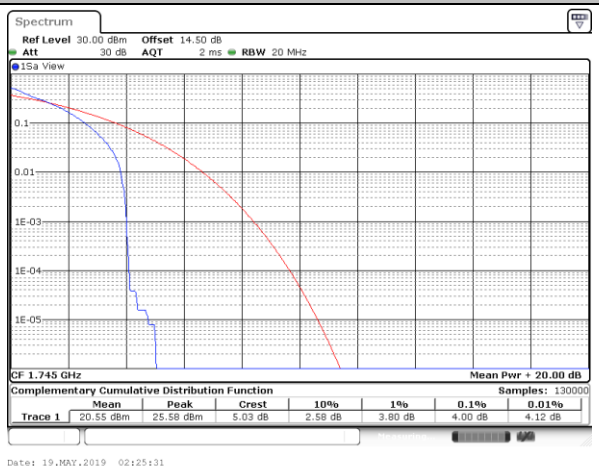
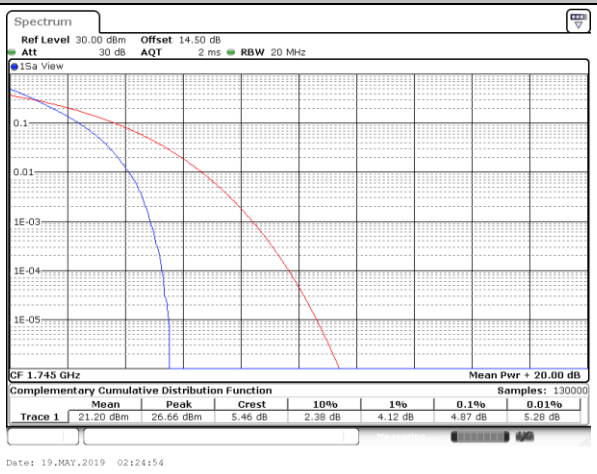


Highest Channel / 1RB



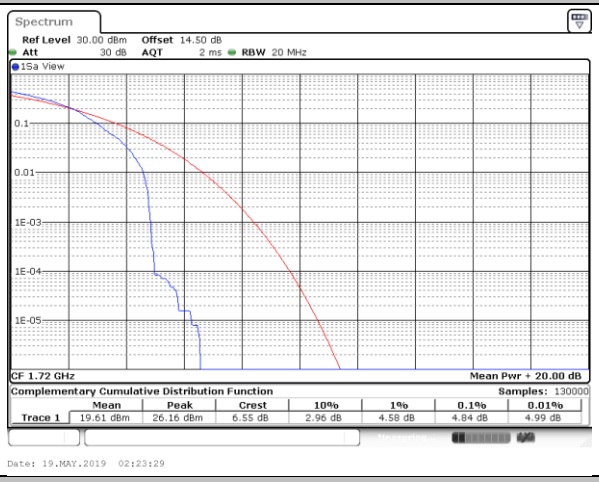
Highest Channel / Full RB



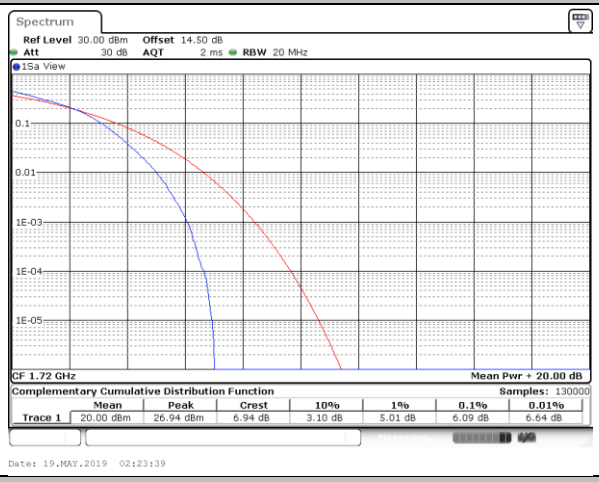
LTE Band 4 / 20MHz / QPSK	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

LTE Band 4 / 20MHz / 16QAM

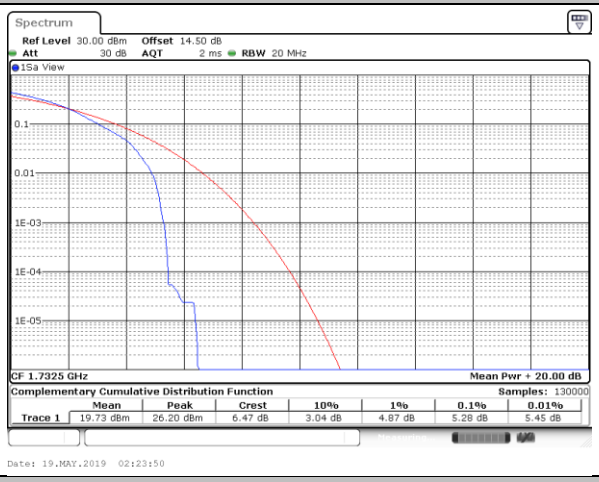
Lowest Channel / 1RB



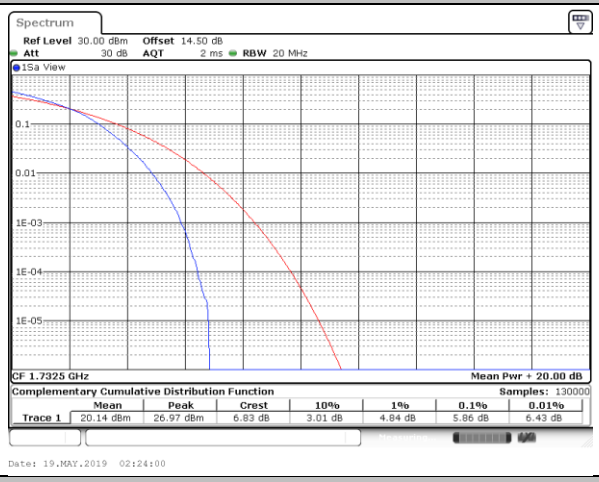
Lowest Channel / Full RB



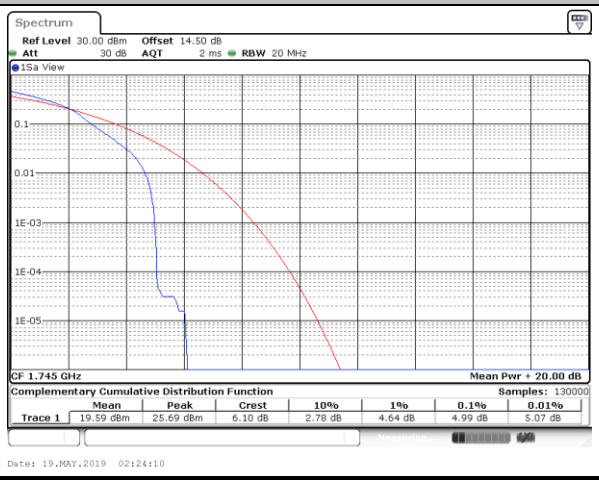
Middle Channel / 1RB



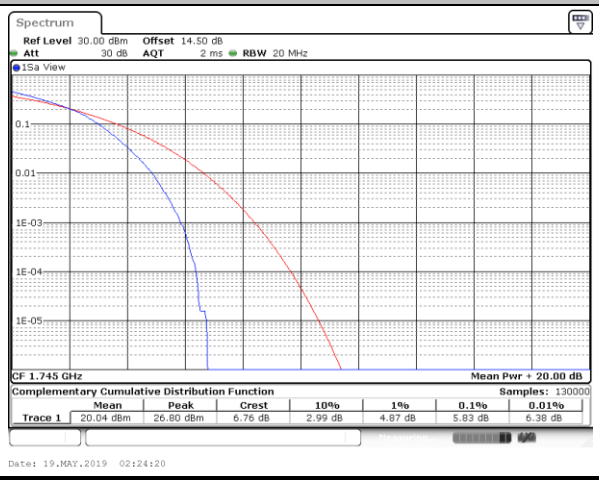
Middle Channel / Full RB



Highest Channel / 1RB

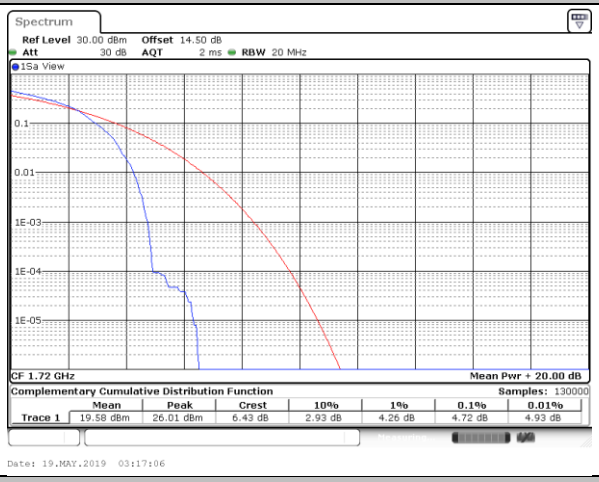


Highest Channel / Full RB

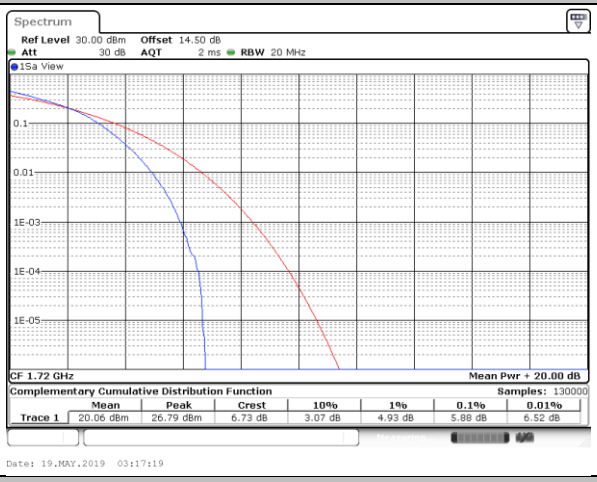


LTE Band 4 / 20MHz / 64QAM

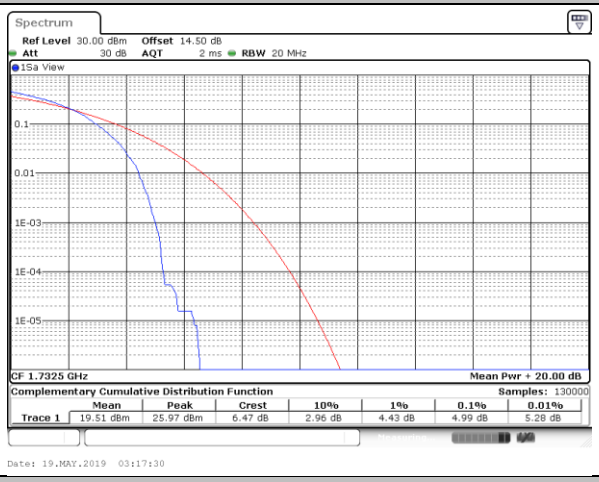
Lowest Channel / 1RB



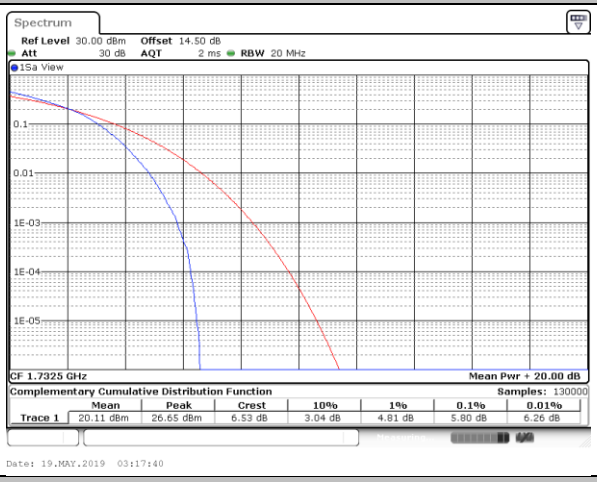
Lowest Channel / Full RB



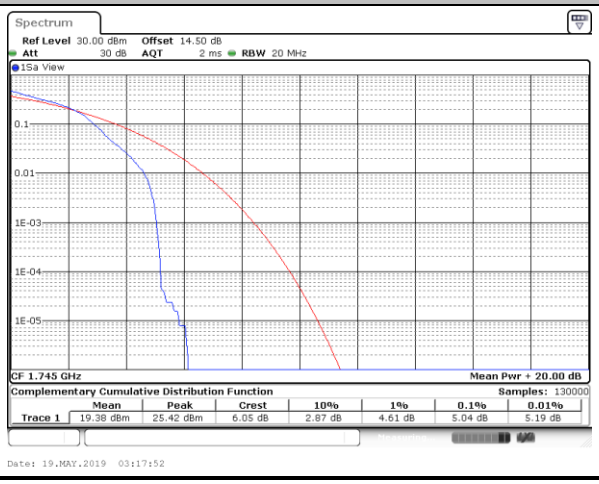
Middle Channel / 1RB



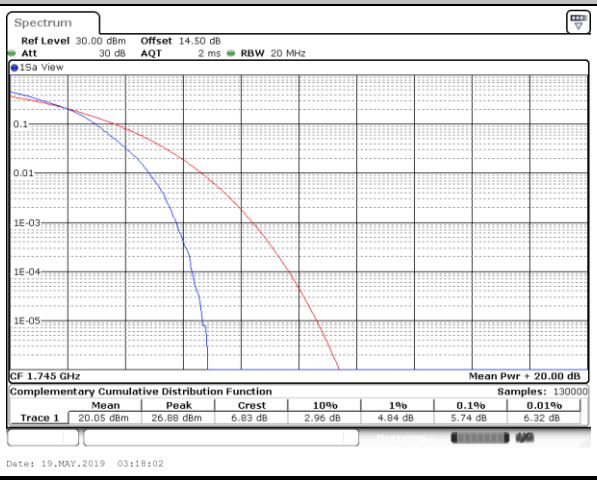
Middle Channel / Full RB

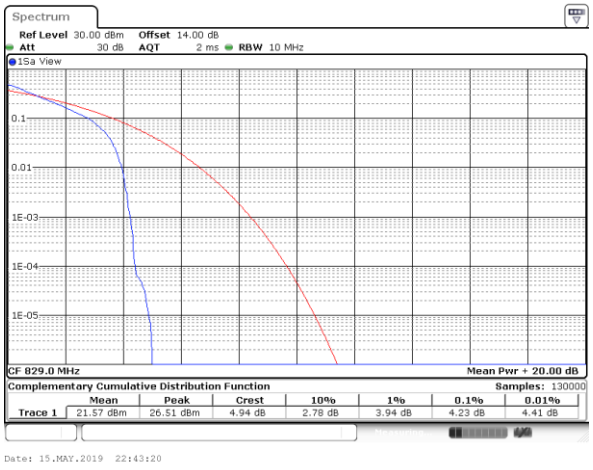
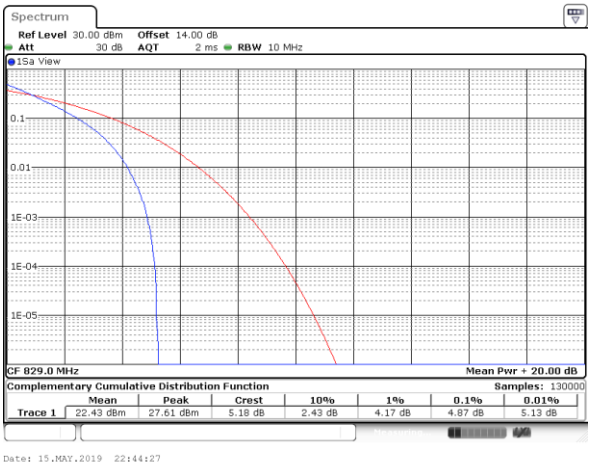
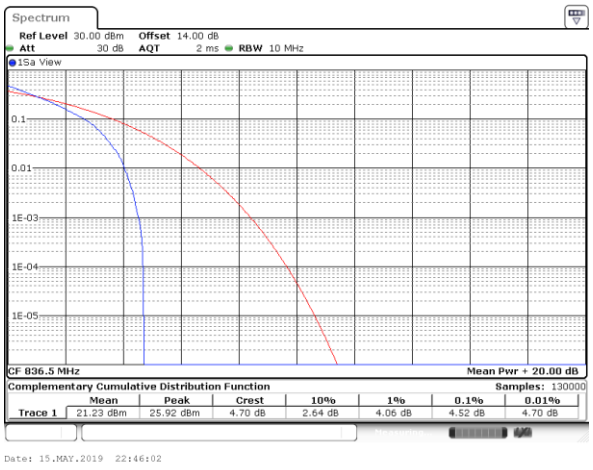
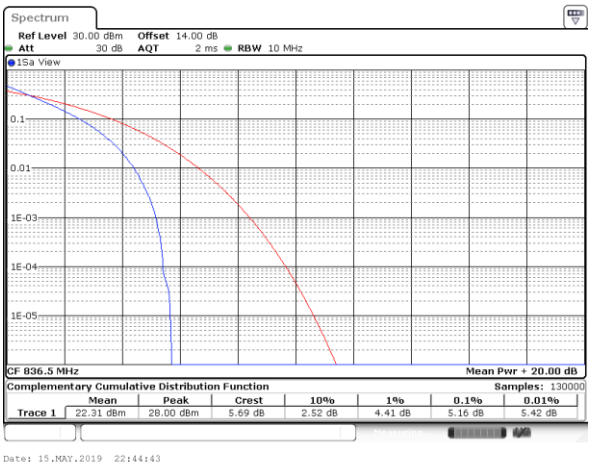
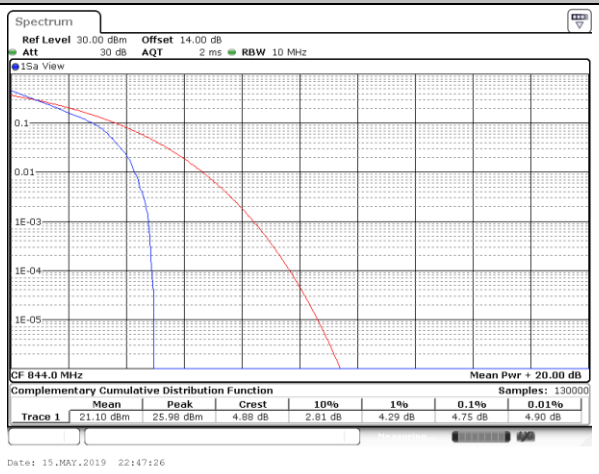
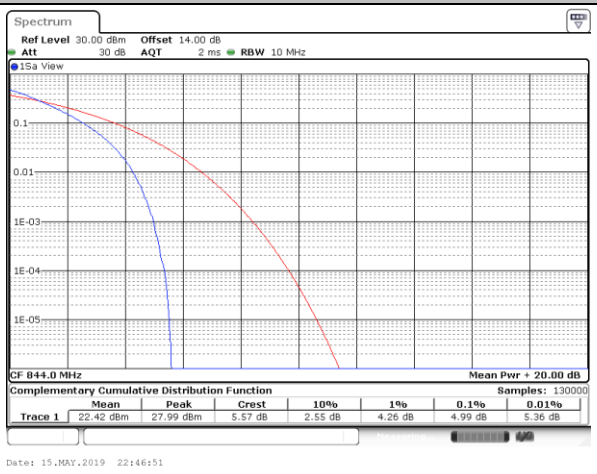


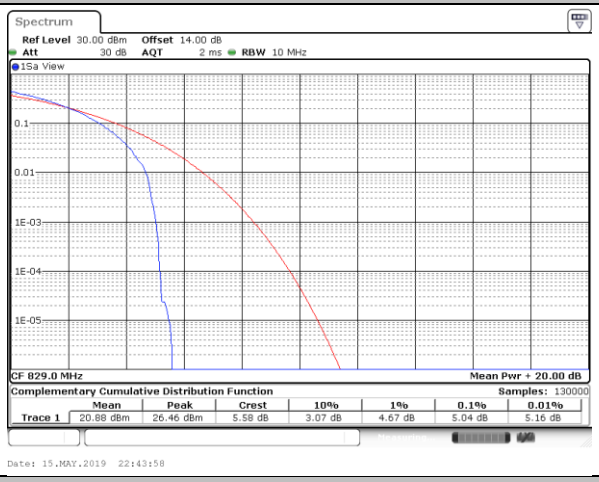
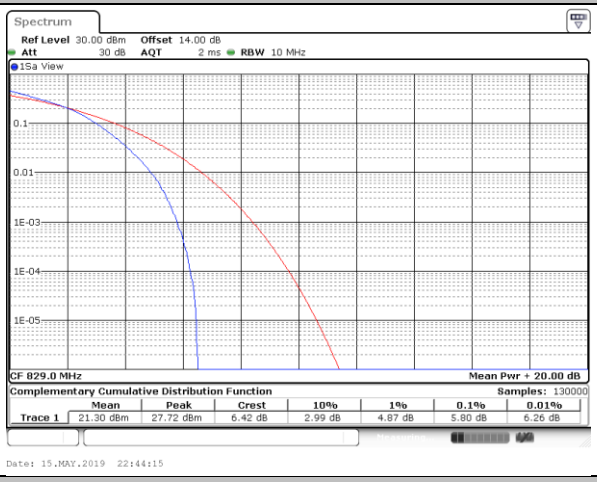
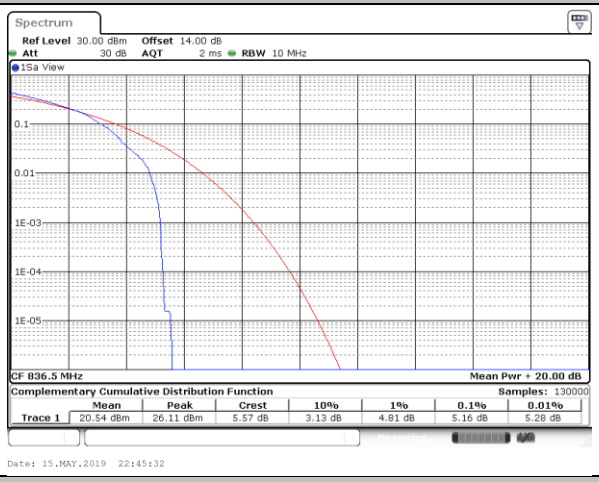
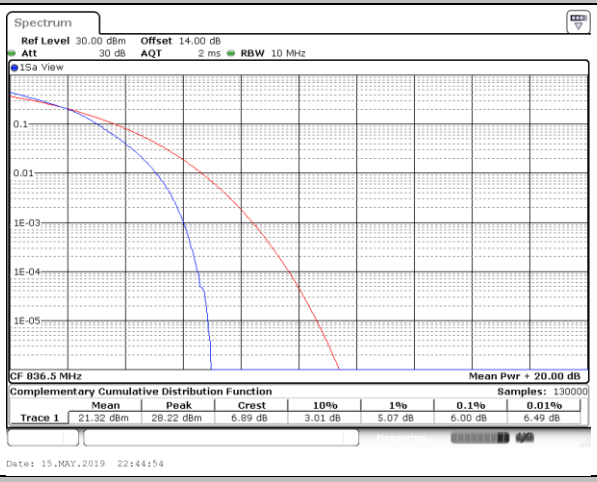
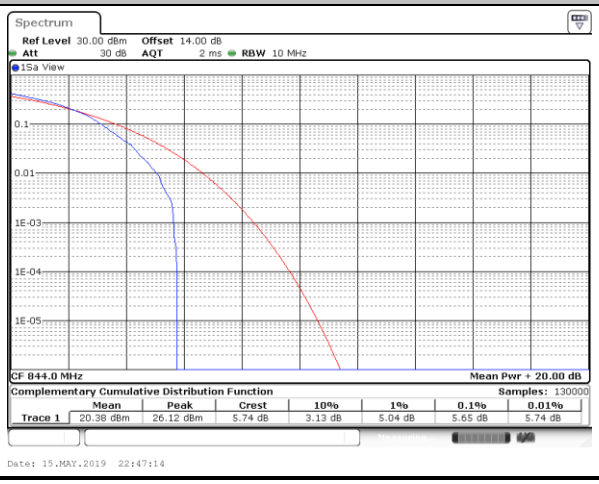
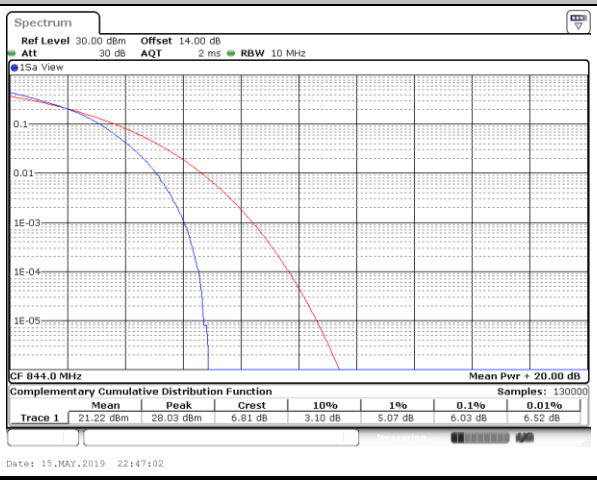
Highest Channel / 1RB

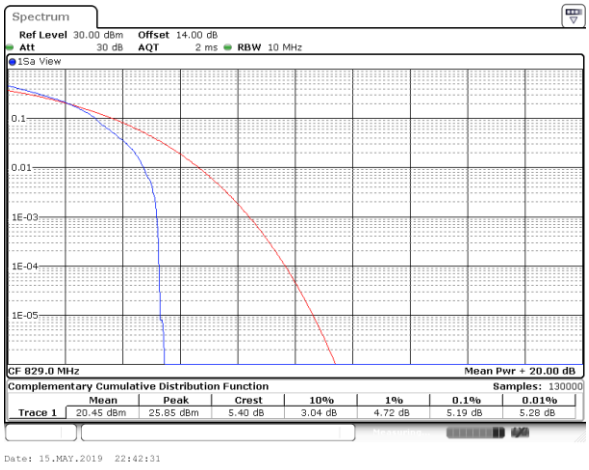
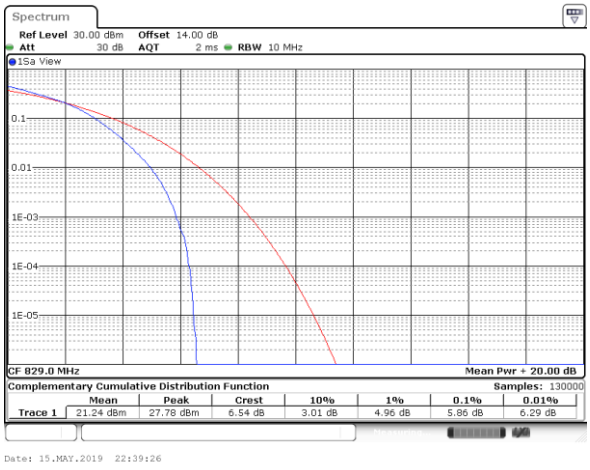
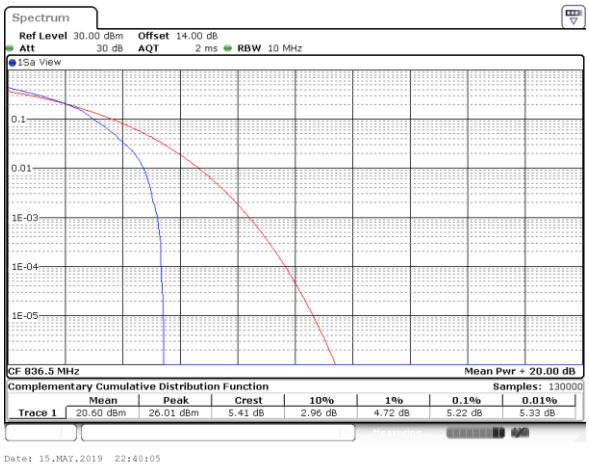
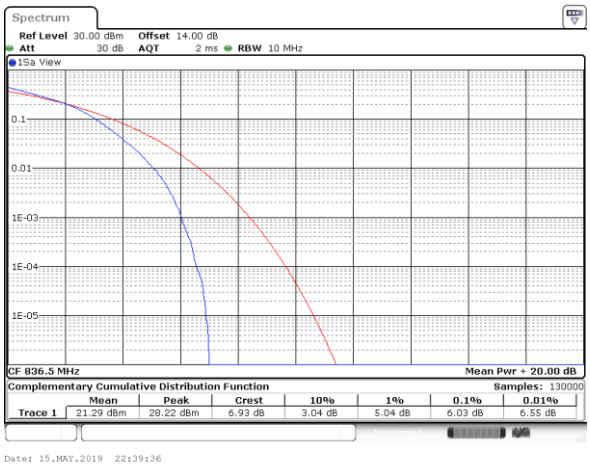
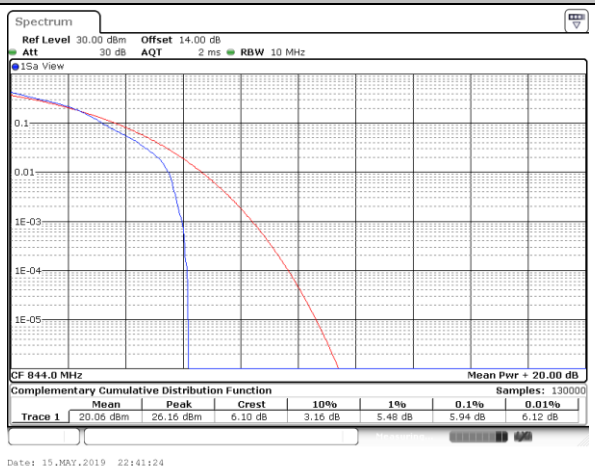
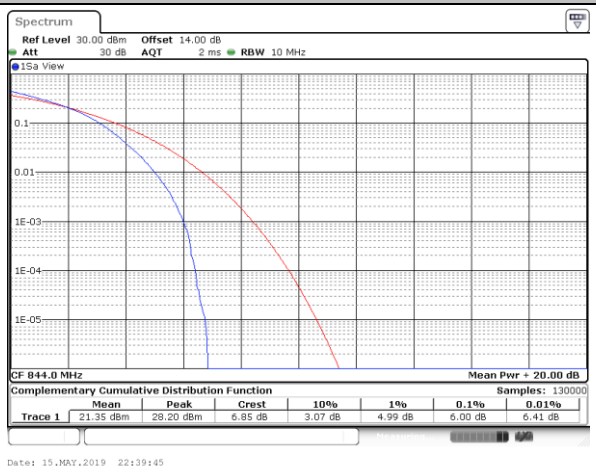


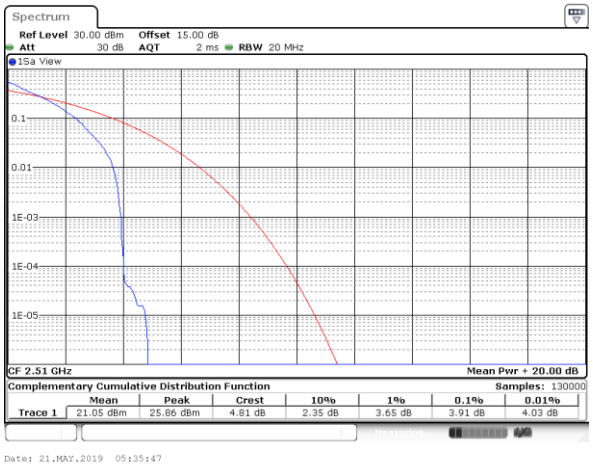
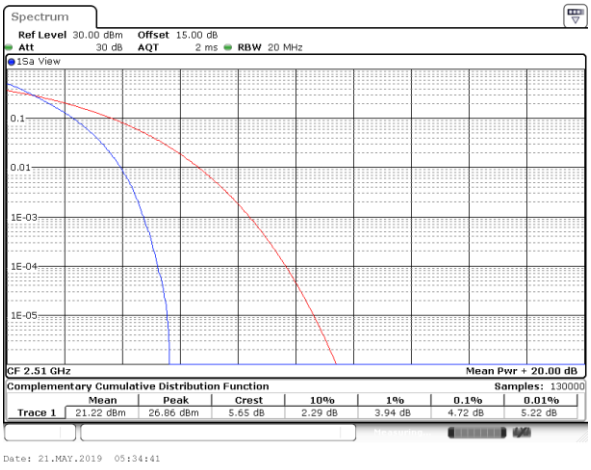
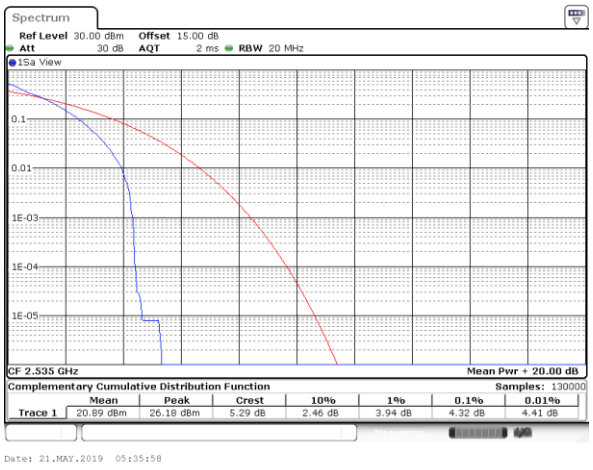
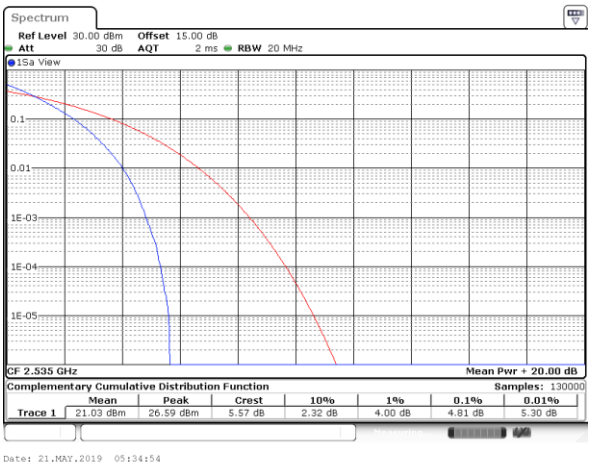
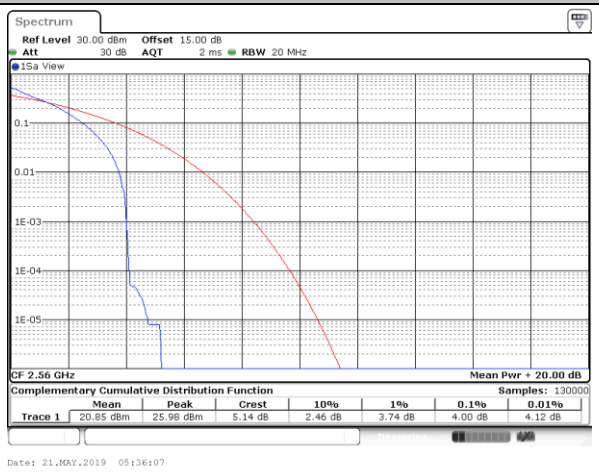
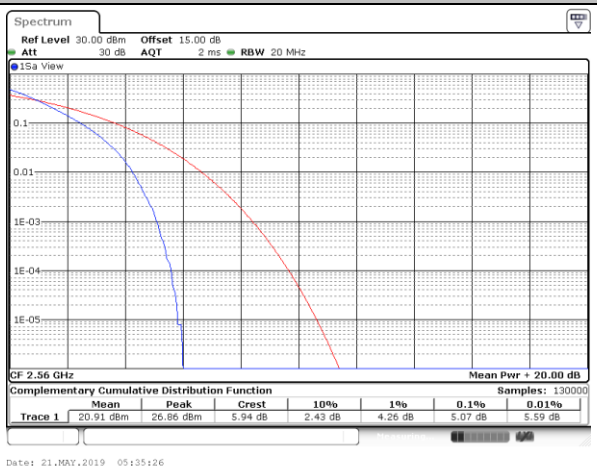
Highest Channel / Full RB

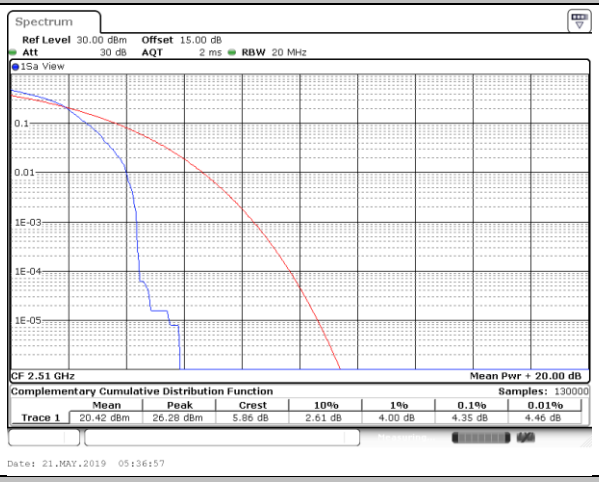
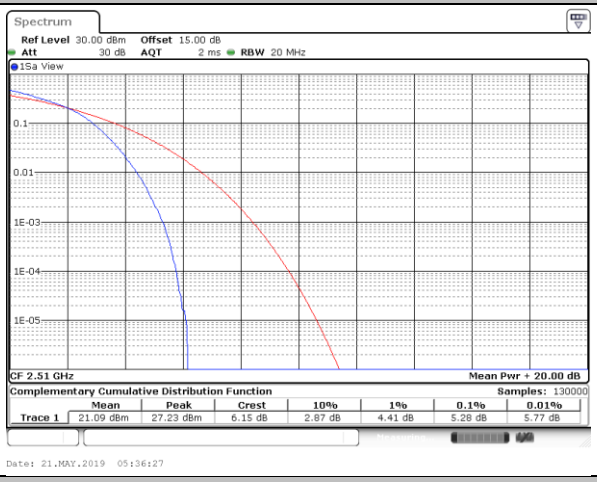
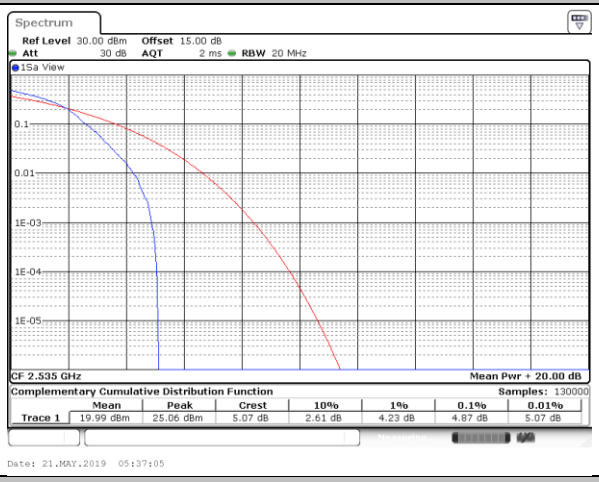
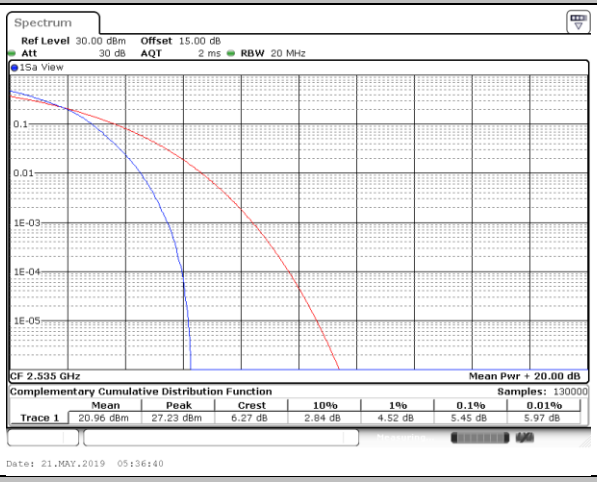
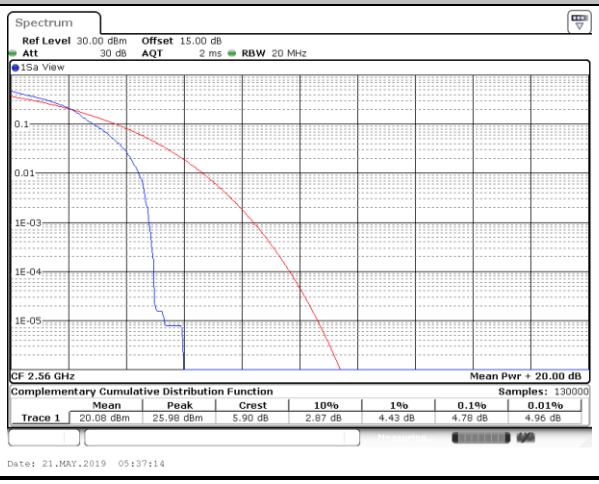
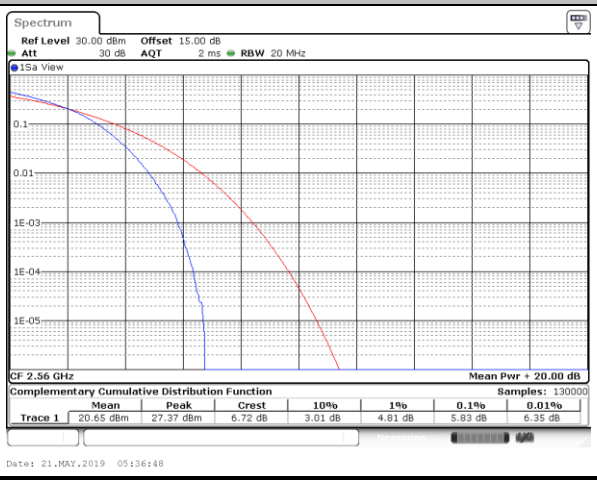


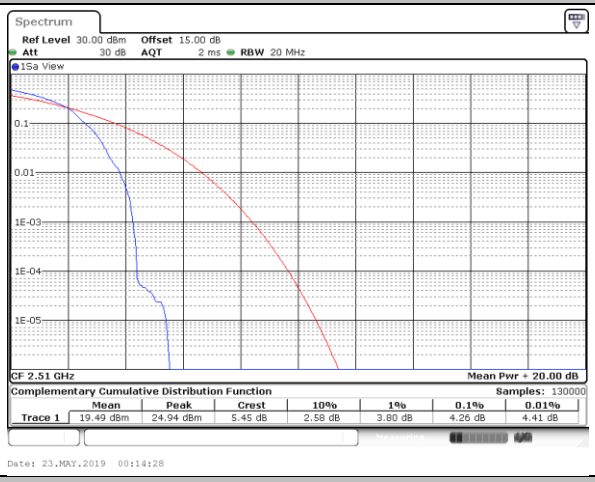
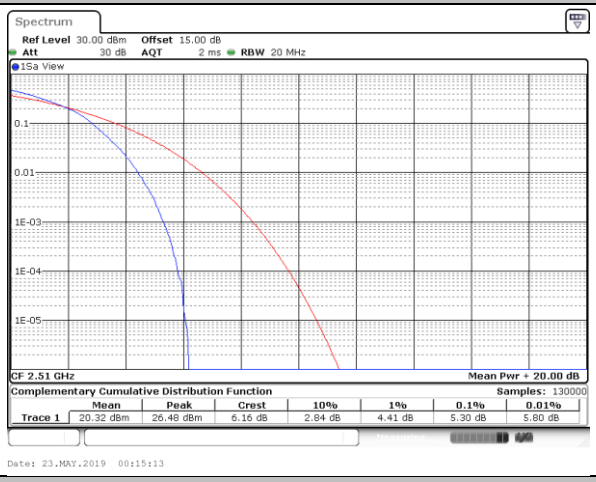
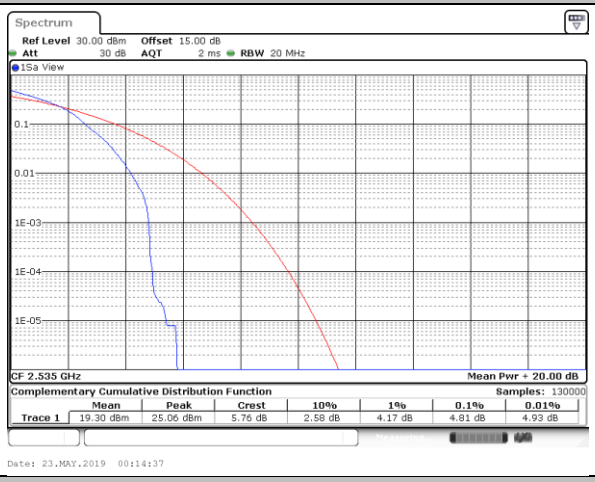
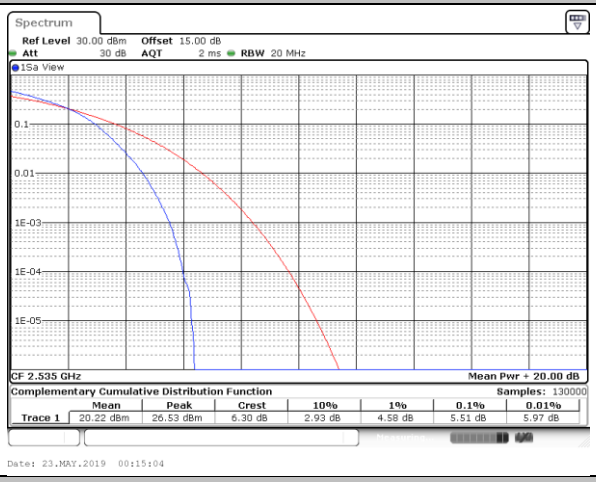
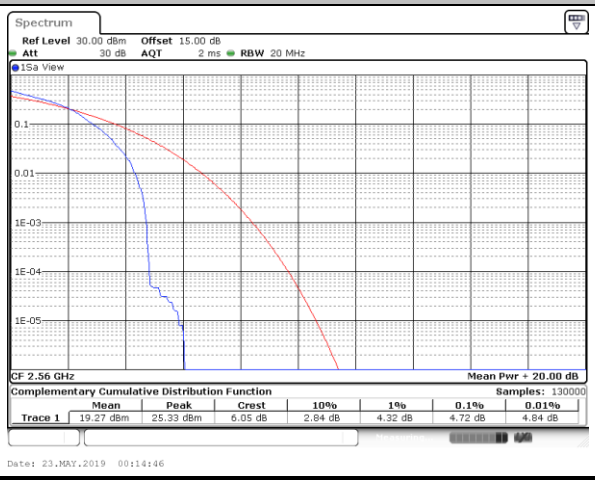
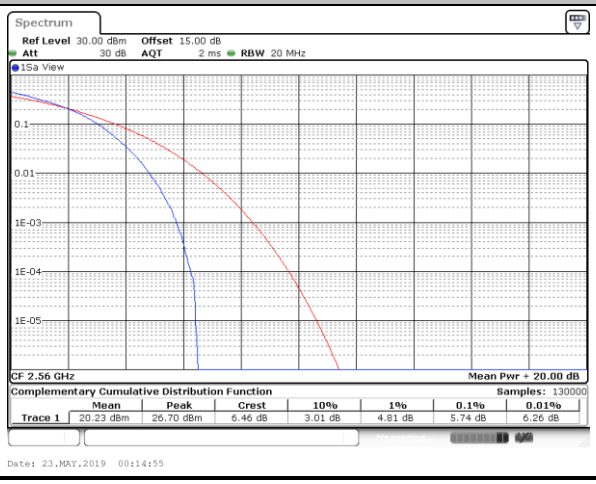
LTE Band 5 / 10MHz / QPSK	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

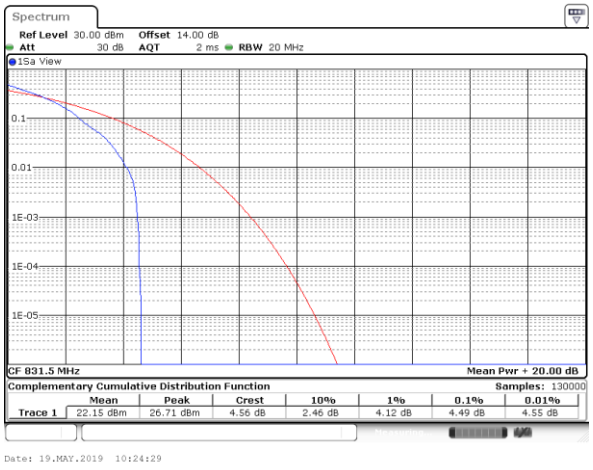
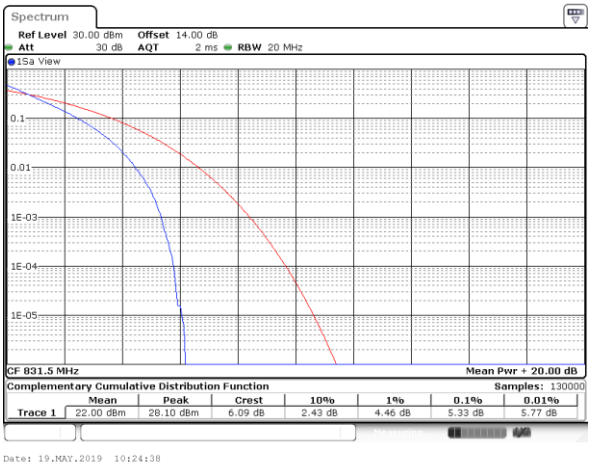
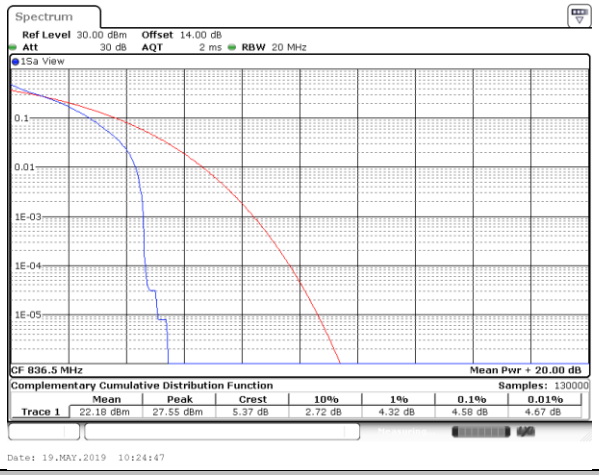
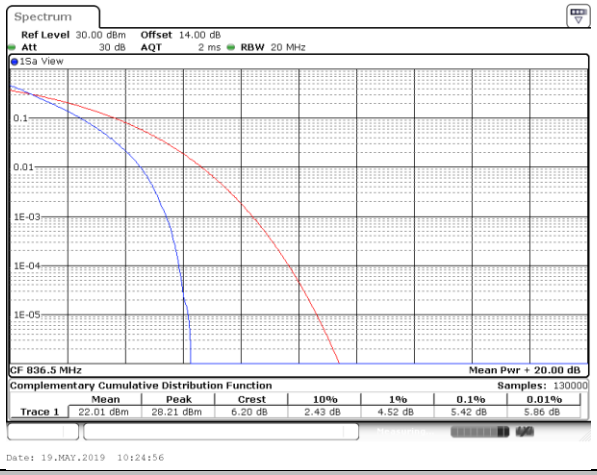
LTE Band 5 / 10MHz / 16QAM	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

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 26 / 15MHz / QPSK	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**