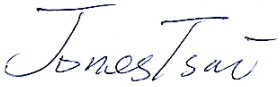
FCC RF Test Report

APPLICANT	: Motorola Mobility, LLC
EQUIPMENT	: Mobile Cellular Phone
BRAND NAME	: Motorola
MODEL NAME	: 10720
FCC ID	: IHDT56WB2
STANDARD	: 47 CFR Part 2, 22(H), 24(E), 27
CLASSIFICATION	: PCS Licensed Transmitter Held to Ear (PCE)

This is a variant report which is only valid together with the original test report. The product was received on Mar. 31, 2017 and completely tested on May 16, 2017. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-D-2010 and the testing has shown the tested sample to be in compliance with the applicable technical standards. The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor



Approved by: Jones Tsai / Manager

Testing Laboratory
1190

SPORTON INTERNATIONAL INC.
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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG733129-04B	Rev. 01	Initial issue of report	May 19, 2017

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§27.50(b)(10) §22.913(a)(2)	Effective Radiated Power (Band 5) (Band 26)	ERP < 7 Watt		
	§27.50(c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 17)	ERP < 3 Watt		
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2)(Band 25) (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(c)(2)(4) §27.53(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26)	< 43+10log10(P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 41)	§27.53(m)(4)		
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(g) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26)	< 43+10log10(P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 41)	< $55+10\log_{10}$(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(c)(2) §27.53(f) §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26)	< $43+10\log_{10}$(P[Watts])	PASS	Under limit 9.71 dB at 14976.000 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 41)	< $55+10\log_{10}$(P[Watts])		

1 General Description

1.1 Applicant

Motorola Mobility, LLC
222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

1.2 Manufacturer

Motorola Mobility, LLC
222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	10720
FCC ID	IHDT56WB2
IMEI Code	990007530003398 990007530005609 (for Radiation)
	990007530005260 (for Conducted)
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/NFC WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
HW Version	DVT2
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. This is a variant report. Except conducted output power, LTE Band 5, Band 12, Band 13, Band 17, Band 26 and Band 41, FG733129-04B report reuses test data from the FG733129B report.

Accessory List	
AC Adapter 1	Brand Name : Motorola
	Model Name : SPN5970A
AC Adapter 2	Brand Name : Motorola
	Model Name : SPN5993A
AC Adapter 3	Brand Name : Motorola
	Model Name : SPN5978A
Battery 1	Brand Name : Motorola
	Model Name : SNN5986A
Battery 2	Brand Name : Motorola
	Model Name : SNN5897A
Earphone	Brand Name : Motorola
	Model Name : SH38C16618
USB Cable	Brand Name : Motorola
	Model Name : SKN6473A
USB-C Data Cable	Brand Name : Motorola
	Model Name : SKN6474A

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 12 : 699.7 MHz ~ 715.3 MHz LTE Band 13 : 779.5 MHz ~ 784.5 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz LTE Band 25 : 1850.7 MHz ~ 1914.3 MHz LTE Band 26 : 814.7 MHz ~ 848.3 MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 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 12 : 729.7 MHz ~ 745.3 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz LTE Band 25 : 1930.7 MHz ~ 1994.3 MHz LTE Band 26 : 859.7 MHz ~ 893.3 MHz LTE Band 41 : 2498.5 MHz ~ 2687.5 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 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz LTE Band 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 2 : 22.81 dBm LTE Band 4 : 22.84 dBm LTE Band 5 : 22.81 dBm LTE Band 12 : 22.76 dBm LTE Band 13 : 22.65 dBm LTE Band 17 : 22.63 dBm LTE Band 25 : 23.01 dBm LTE Band 26 : 23.07 dBm LTE Band 41 : 22.88 dBm for Config 0 LTE Band 41 : 25.63 dBm for Config 1
Antenna Type	Fixed Internal Antenna
Type of Modulation	QPSK / 16QAM / 64QAM
Remark : LTE TDD B41 in this device is not a 3GPP compliant band. Regarding LTE TDD B41, the device capability is limited in a narrower frequency range (2545MHz~2655MHz) than is specified in 3GPP 34.121. The detailed implementation is illustrated in the operational description.	

1.5 Modification of EUT

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

1.6 Emission Designator

LTE Band 2		QPSK			16QAM			64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
15	1857.5 ~ 1902.5	-	-	-	-	-	0.1766	-	-	-
20	1860.0 ~ 1900.0	-	-	0.2046	-	-	-	-	-	0.1671
LTE Band 25		**QPSK**			**16QAM**			**64QAM**		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
20	1860.0 ~ 1905.0	-	-	0.1702	-	-	0.1422	-	-	0.1030
LTE Band 4		**QPSK**			**16QAM**			**64QAM**		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
20	1720.0 ~ 1745.0	-	-	0.2061	-	-	0.1734	-	-	0.1652
LTE Band 5		**QPSK**			**16QAM**			**64QAM**		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	824.7 ~ 848.3	1M10G7D	-	0.1016	1M09W7D	-	0.0843	1M09W7D	-	0.0984
3	825.5 ~ 847.5	2M73G7D	-	0.1026	2M73W7D	-	0.0867	2M74W7D	-	0.0964
5	826.5 ~ 846.5	4M50G7D	-	0.1033	4M49W7D	-	0.0871	4M49W7D	-	0.0982
10	829.0 ~ 844.0	9M05G7D	0.0103	0.1038	9M03W7D	-	0.0873	9M01W7D	-	0.0977
LTE Band 12		**QPSK**			**16QAM**			**64QAM**		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	699.7 ~ 715.3	1M10G7D	-	0.1023	1M10W7D	-	0.0863	1M09W7D	-	0.0925
3	700.5 ~ 714.5	2M73G7D	-	0.1005	2M71W7D	-	0.0861	2M73W7D	-	0.0940
5	701.5 ~ 713.5	4M50G7D	-	0.1016	4M50W7D	-	0.0865	4M50W7D	-	0.0935
10	704.0 ~ 711.0	9M11G7D	0.0130	0.1026	9M03W7D	-	0.0853	9M07W7D	-	0.0938
LTE Band 13		**QPSK**			**16QAM**			**64QAM**		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	779.5 ~ 784.5	4M50G7D	-	0.0998	4M49W7D	-	0.0851	4M51W7D	-	0.0912
10	782.0	8M99G7D	0.0097	0.1000	9M01W7D	-	0.0830	9M01W7D	-	0.0904

LTE Band 17		QPSK			16QAM			64QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	706.5 ~ 713.5	4M52G7D	-	0.0986	4M51W7D	-	0.0855	4M51W7D	-	0.0914
10	709.0 ~ 711.0	9M05G7D	0.0108	0.0995	9M07W7D	-	0.0839	9M01W7D	-	0.0910
LTE Band 26		**QPSK**			**16QAM**			**64QAM**		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	824.7 ~ 848.3	1M09G7D	-	0.1075	1M10W7D	-	0.0903	1M10W7D	-	0.1029
3	825.5 ~ 847.5	2M73G7D	-	0.1073	2M73W7D	-	0.0911	2M73W7D	-	0.1022
5	826.5 ~ 846.5	4M50G7D	-	0.1078	4M50W7D	-	0.0915	4M50W7D	-	0.1015
10	829.0 ~ 844.0	9M07G7D	0.0100	0.1078	9M05W7D	-	0.0909	9M03W7D	-	0.1013
15	831.5 ~ 841.5	13M5G7D	-	0.1101	13M5W7D	-	0.0928	13M5W7D	-	0.1020
LTE Band 41_Config 0		**QPSK**			**16QAM**			**64QAM**		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2498.5 ~ 2687.5	4M50G7D	-	0.1574	4M52W7D	-	0.1309	4M50W7D	-	0.0975
10	2501.0 ~ 2685.0	9M03G7D	0.0081	0.1507	9M03W7D	-	0.1242	9M01W7D	-	0.0929
15	2503.5 ~ 2682.5	13M5G7D	-	0.1514	13M5W7D	-	0.1233	13M5W7D	-	0.0920
20	2506.0 ~ 2680.0	18M3G7D	-	0.1578	18M3W7D	-	0.1245	18M4W7D	-	0.0938
LTE Band 41_Config 1		**QPSK**			**16QAM**			**64QAM**		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2498.5 ~ 2687.5	4M48G7D	-	0.2871	4M47W7D	-	0.2477	4M49W7D	-	0.1871
10	2501.0 ~ 2685.0	9M09G7D	0.0081	0.2951	9M07W7D	-	0.2541	9M07W7D	-	0.1928
15	2503.5 ~ 2682.5	13M5G7D	-	0.2958	13M4W7D	-	0.2512	13M4W7D	-	0.1972
20	2506.0 ~ 2680.0	18M3G7D	-	0.2972	18M3W7D	-	0.2564	18M5W7D	-	0.1945

LTE Band 41_CA			QPSK		16QAM		64QAM	
CA Combination BW (MHz) PCC/SCC	Primary Component Carrier Frequency Range (MHz)	Secondary Component Carrier Frequency Range (MHz)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)
5 + 20	2499.3 ~ 2668.3	2511.0 ~ 2680.0	23M2G7D	0.1718	23M3W7D	0.1563	23M3W7D	0.0908
20 + 5	2506.0 ~ 2675.0	2517.7 ~ 2686.7	23M3G7D	0.1524	23M3W7D	0.1368	23M2W7D	0.0817
10 + 20	2501.5 ~ 2665.6	2515.9 ~ 2680.0	28M1G7D	0.1690	28M4W7D	0.1560	28M2W7D	0.0904
20 + 10	2506.0 ~ 2670.1	2520.4 ~ 2684.5	28M4G7D	0.1535	28M1W7D	0.1365	28M1W7D	0.0826
15 + 15	2503.5 ~ 2667.5	2518.5 ~ 2682.5	28M7G7D	0.1714	28M8W7D	0.1622	28M7W7D	0.0908
20 + 15	2506.0 ~ 2665.1	2523.1 ~ 2682.2	32M9G7D	0.1528	33M0W7D	0.1337	32M8W7D	0.0809
15 + 20	2503.8 ~ 2662.9	2520.9 ~ 2680.0	33M0G7D	0.1750	32M8W7D	0.1607	32M9W7D	0.0927
20 + 20	2506.0 ~ 2660.2	2525.8 ~ 2680.0	37M7G7D	0.1986	37M8W7D	0.1611	37M6W7D	0.1122

1.7 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	TH05-HY

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	**Sporton Site No.**
	03CH12-HY

1.8 Applicable Standards

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

- 47 CFR Part 2, 22(H), 24(E), 27
- ANSI / TIA / EIA-603-D-2010
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

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

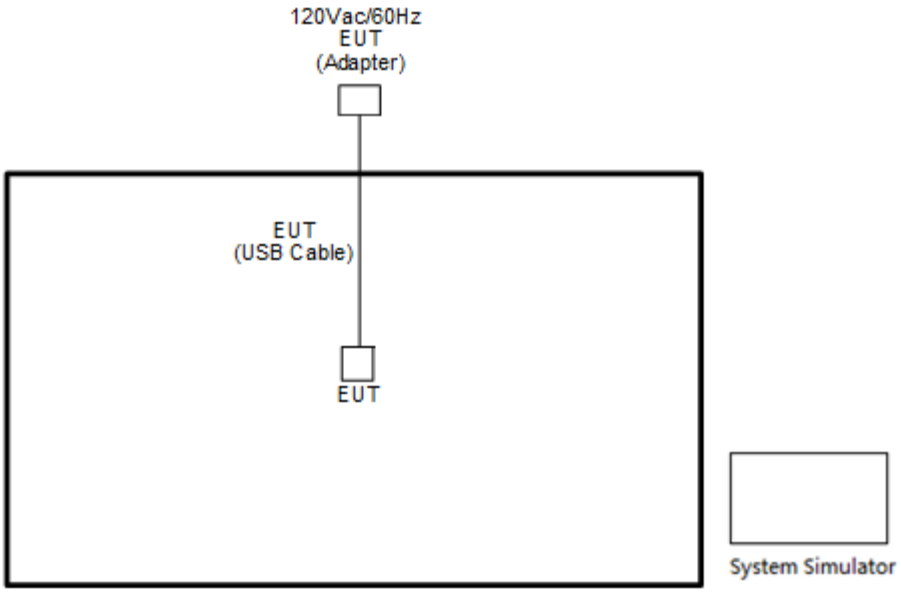
Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v	v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

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 Band Edge	5	v	v	v	v	-	-	v	v	v	v		v	v		v
	12	v	v	v	v	-	-	v	v	v	v		v	v		v
	13	-	-	v	v	-	-	v	v	v	v		v	v		v
	17	-	-	v	v	-	-	v	v	v	v		v	v		v
	26	v	v	v	v	v	-	v	v	v	v		v	v		v
	41	-	-	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	5	v	v	v	v	-	-	v	v	v	v			v	v	v
	12	v	v	v	v	-	-	v	v	v	v			v	v	v
	13	-	-	v	v	-	-	v	v	v	v			v	v	v
	17	-	-	v	v	-	-	v	v	v	v			v	v	v
	26	v	v	v	v	v	-	v	v	v	v			v	v	v
	41	-	-	v	v	v	v	v	v	v	v			v	v	v
Frequency Stability	5				v	-	-	v					v		v	
	12				v	-	-	v					v		v	
	13	-	-		v	-	-	v					v		v	
	17	-	-		v	-	-	v					v		v	
	26				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
	4						v	v	v	v	v				v	v
	5	v	v	v	v	-	-	v	v	v	v			v	v	v
	12	v	v	v	v	v	v	v	v	v	v			v	v	v
	13	-	-	v	v	-	-	v	v	v	v			v	v	v
	17	-	-	v	v	-	-	v	v	v	v			v	v	v
	25						v	v	v	v	v			v	v	
	26	v	v	v	v	v	-	v	v	v	v			v	v	v
	41	-	-	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	2		v					v			v				v	
	4			v				v			v			v		
	5	v	v	v	v	-	-	v			v			v	v	v
	12	v	v	v	v	-	-	v			v			v	v	v
	13	-	-	v	v	-	-	v			v			v	v	v
	17	-	-	v	v	-	-	v			v			v	v	v
	25						v	v			v					v
	26	v	v	v	v	v	-	v			v			v	v	v
	41	-	-	v	v	v	v	v			v			v	v	v
Note	1. The mark "v " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. All the radiated test cases were performance with Adapter 1 and Battery 2.															

Test Items	Band	Bandwidth (MHz)								Modulation			RB #			Test Channel		
		20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	41_CA	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	41_CA	v	v	v	v	v	v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	41_CA	v	v	v	v	v	v	v	v	v	v	v	v		v	v		v
Conducted Spurious Emission	41_CA	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v
E.I.R.P.	41_CA	v	v	v	v	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	41_CA	v	v	v	v	v	v	v	v	v			v			v	v	v
Note	1. The mark "v " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. All the radiated test cases were performance with Adapter 1 and Battery 2.																	

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.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss 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 4.2 dB and 10dB attenuator.

Example :

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

= 4.2 + 10 = 14.2 (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	-	-	19100
	Frequency	-	-	1900
15	Channel	-	-	19125
	Frequency	-	-	1902.5

LTE Band 4 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	-	20175	20300
	Frequency	-	1732.5	1745

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

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

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

LTE Band 25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	26140	26340	-
	Frequency	1860	1880	-

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

LTE Band 41 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	39750	40620	41490
	Frequency	2506.0	2593.0	2680.0
15	Channel	39725	40620	41515
	Frequency	2503.5	2593.0	2682.5
10	Channel	39700	40620	41540
	Frequency	2501	2593	2685
5	Channel	39675	40620	41565
	Frequency	2498.5	2593.0	2687.5

LTE Band 41 Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	39750	40521	41292
		Frequency	2506.0	2583.1	2660.2
	SCC	Channel	39948	40719	41490
		Frequency	2525.8	2602.9	2680.0
20 + 15	PCC	Channel	39750	40546	41341
		Frequency	2506.0	2585.6	2665.1
	SCC	Channel	39921	40717	41512
		Frequency	2523.1	2602.7	2682.2
15 + 20	PCC	Channel	39728	40523	41319
		Frequency	2503.8	2583.3	2662.9
	SCC	Channel	39899	40694	41490
		Frequency	2520.9	2600.4	2680.0
20 + 10	PCC	Channel	39750	40571	41391
		Frequency	2506.0	2588.1	2670.1
	SCC	Channel	39894	40715	41535
		Frequency	2520.4	2602.5	2684.5
10 + 20	PCC	Channel	39705	40526	41346
		Frequency	2501.5	2583.6	2665.6
	SCC	Channel	39849	40670	41490
		Frequency	2515.9	2598.0	2680.0
20 + 5	PCC	Channel	39750	40595	41440
		Frequency	2506.0	2590.5	2675.0
	SCC	Channel	39867	40712	41557
		Frequency	2517.7	2602.2	2686.7
5 + 20	PCC	Channel	39683	40528	41373
		Frequency	2499.3	2583.8	2668.3
	SCC	Channel	39800	40645	41490
		Frequency	2511.0	2595.5	2680.0
15+ 15	PCC	Channel	39725	40545	41365
		Frequency	2503.5	2585.5	2667.5
	SCC	Channel	39875	40695	41515
		Frequency	2518.5	2600.5	2682.5

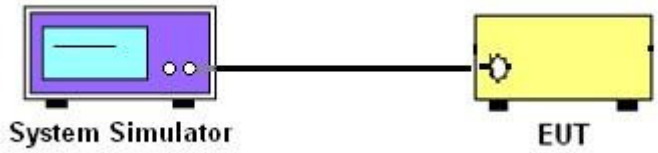
3 Conducted Test Items

3.1 Measuring Instruments

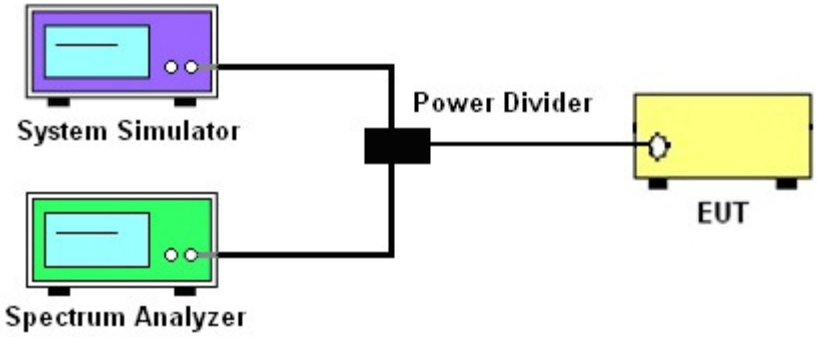
See list of measuring instruments of this test report.

3.2 Test Setup

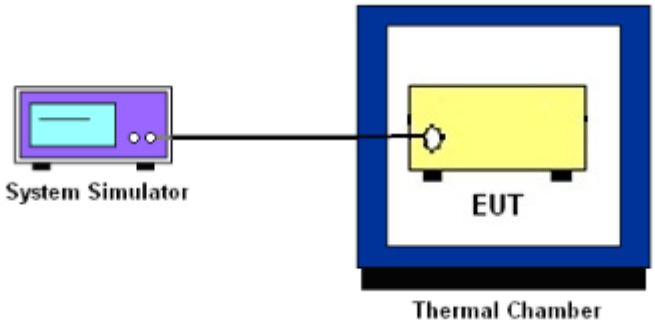
Conducted Output Power



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



Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

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

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

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

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12, Band 13 and Band 17.

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

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

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

Test Procedures

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

3.5 Peak-to-Average Ratio

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.

Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 5.7.1.
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

3.6 Occupied Bandwidth

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.

Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 4.2.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace. (this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “–X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.7 Conducted Band Edge

Description of Conducted Band Edge Measurement

22.917(a)

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

24.238 (a)

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

27.53 (c)

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

27.53 (g)

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

27.53 (h)

For operations in the 1710 – 1755 MHz 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.

Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 6.0.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.
   The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
9. For LTE Band 41, the other 40 dB, and 55 dB have additionally applied same calculation above.

3.8 Conducted Spurious Emission

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 41:

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

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

Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 6.0.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
11. For Band 41
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)

3.9 Frequency Stability

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.

Test Procedures for Temperature Variation

1. The testing follows FCC KDB 971168 v02r02 Section 9.0.
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

Test Procedures for Voltage Variation

1. The testing follows FCC KDB 971168 v02r02 Section 9.0.
2. The EUT was placed in a temperature chamber at 20±5° C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

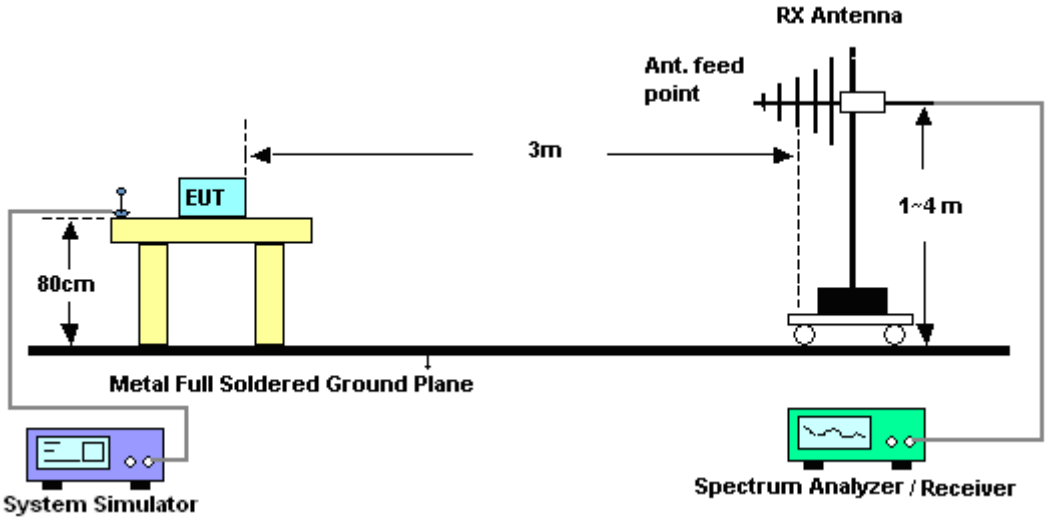
4 Radiated Test Items

4.1 Measuring Instruments

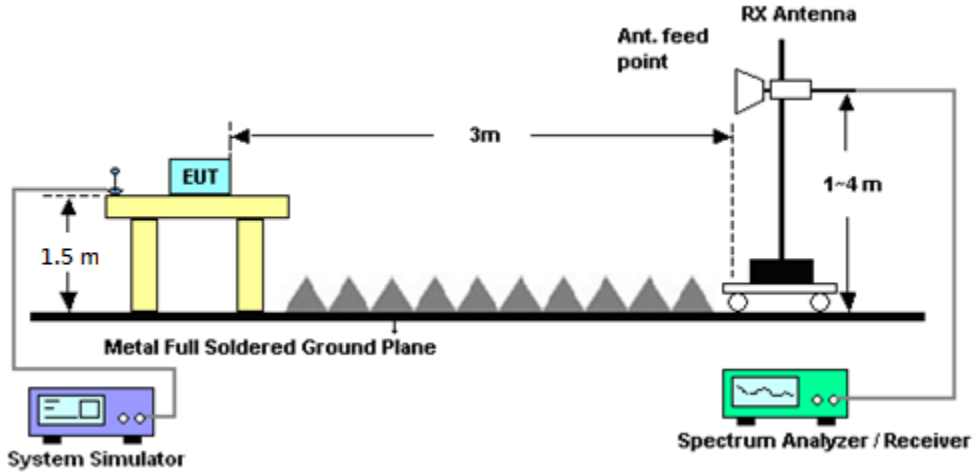
See list of measuring instruments of this test report.

4.2 Test Setup

For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Radiated Spurious Emission

Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-D-2010. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For Band 41

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

For LTE Band 12,17

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

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

Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 5.8 and ANSI / TIA-603-D-2010 Section 2.2.12.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna, which was 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 one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. 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)
12. For Band 41:
    The limit line is derived from 55 + 10log(P)dB below the transmitter power P(Watts)
    EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
    ERP (dBm) = EIRP - 2.15

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LTE Base Station	Anritsu	MT8820C	6201432821	GSM/GPRS /WCDMA/LTE	Oct. 11, 2016	Mar. 31, 2017~ May 16, 2017	Oct. 10, 2017	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV40	101397	10Hz~40GHz	Nov. 04, 2016	Mar. 31, 2017~ May 16, 2017	Nov. 03, 2017	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-30 度~70 度	Sep. 01, 2016	Mar. 31, 2017~ May 16, 2017	Aug. 31, 2017	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890001	1V~20V 0.5A~5A	Oct. 03, 2016	Mar. 31, 2017~ May 16, 2017	Oct. 02, 2017	Conducted (TH05-HY)
Bilog Antenna	TESEQ	CBL 6111D&008	37059&01	30MHz~1GHz	Oct. 15, 2016	Apr. 26, 2017~ May 13, 2017	Oct. 14, 2017	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1328	1GHz ~ 18GHz	Oct. 25, 2016	Apr. 26, 2017~ May 13, 2017	Oct. 24, 2017	Radiation (03CH12-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100390	20Hz~26.5GHz	Dec. 23, 2016	Apr. 26, 2017~ May 13, 2017	Dec. 22, 2017	Radiation (03CH12-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Sep. 02, 2015	Apr. 26, 2017~ May 13, 2017	Sep. 01, 2017	Radiation (03CH12-HY)
Preamplifier	MITEQ	AMF-7D-00 101800-30-1	1815698	1GHz~18GHz	Dec. 01, 2016	Apr. 26, 2017~ May 13, 2017	Nov. 30, 2017	Radiation (03CH12-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 10, 2016	Apr. 26, 2017~ May 13, 2017	Nov. 09, 2017	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 23, 2017	Apr. 26, 2017~ May 13, 2017	Mar. 22, 2018	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-450 0-B	N/A	1m~4m	N/A	Apr. 26, 2017~ May 13, 2017	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Apr. 26, 2017~ May 13, 2017	N/A	Radiation (03CH12-HY)
Preamplifier	MITEQ	JS44-18004 000-33-8P	1840917	18GHz ~ 40GHz	Jun. 14, 2016	Apr. 26, 2017~ May 13, 2017	Jun. 13, 2017	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz- 40GHz	Nov. 08, 2016	Apr. 26, 2017~ May 13, 2017	Nov. 07, 2017	Radiation (03CH12-HY)
Signal Generator	Anritsu	MG3694C	163401	0.1Hz~40GHz	Jan. 04, 2017	Apr. 26, 2017~ May 13, 2017	Jan. 03, 2018	Radiation (03CH12-HY)

6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.36**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.70**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.98**

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.87	22.82	**23.06**
20	1	49		22.53	22.46	22.92
20	1	99		22.71	22.67	22.98
20	50	0		21.74	21.62	22.05
20	50	24		21.64	21.58	22.06
20	50	50		21.63	21.58	22.04
20	100	0		21.73	21.62	22.04
20	1	0	16-QAM	22.14	22.09	22.15
20	1	49		21.80	21.73	22.16
20	1	99		21.99	21.90	22.20
20	50	0		20.76	20.64	21.06
20	50	24		20.63	20.61	21.03
20	50	50		20.62	20.61	21.05
20	100	0		20.71	20.58	21.05
20	1	0	64-QAM	21.59	21.53	21.81
20	1	49		21.29	21.38	21.43
20	1	99		21.40	21.44	21.50
20	50	0		20.40	20.29	20.41
20	50	24		20.29	20.33	20.64
20	50	50		20.33	20.12	20.46
20	100	0		20.28	20.48	20.65
15	1	0	QPSK	22.70	22.56	23.03
15	1	37		22.59	22.48	22.94
15	1	74		22.55	22.50	22.99
15	36	0		21.70	21.62	22.05
15	36	20		21.71	21.60	22.07
15	36	39		21.58	21.55	22.04
15	75	0		21.71	21.57	22.07
15	1	0	16-QAM	21.97	21.84	22.29
15	1	37		21.88	21.76	22.23
15	1	74		21.81	21.80	22.24
15	36	0		20.71	20.58	21.09
15	36	20		20.72	20.59	21.05
15	36	39		20.57	20.56	21.07
15	75	0		20.72	20.59	21.07
15	1	0	64-QAM	21.50	21.39	21.72
15	1	37		21.15	21.44	21.40
15	1	74		21.36	21.16	21.43
15	36	0		20.33	20.29	20.57
15	36	20		20.28	20.35	20.53
15	36	39		20.16	20.19	20.43
15	75	0		20.28	20.19	20.66

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.85	22.73	23.05
10	1	25		22.57	22.50	22.98
10	1	49		22.73	22.73	23.02
10	25	0		21.64	21.56	22.07
10	25	12		21.66	21.56	22.08
10	25	25		21.65	21.55	22.06
10	50	0		21.66	21.58	22.07
10	1	0	16-QAM	22.09	22.01	22.25
10	1	25		21.85	21.74	22.25
10	1	49		21.97	21.97	22.18
10	25	0		20.69	20.62	21.08
10	25	12		20.69	20.60	21.06
10	25	25		20.66	20.60	21.09
10	50	0		20.69	20.60	21.11
10	1	0	64-QAM	21.64	21.49	21.55
10	1	25		21.39	21.24	21.62
10	1	49		21.47	21.63	21.48
10	25	0		20.26	20.26	20.63
10	25	12		20.21	20.34	20.66
10	25	25		20.27	20.30	20.38
10	50	0		20.26	20.43	20.58
5	1	0	QPSK	22.60	22.52	23.03
5	1	12		22.54	22.46	23.00
5	1	24		22.59	22.51	23.05
5	12	0		21.62	21.57	22.07
5	12	7		21.63	21.55	22.09
5	12	13		21.61	21.56	22.06
5	25	0		21.61	21.58	22.07
5	1	0	16-QAM	21.87	21.77	22.28
5	1	12		21.85	21.76	22.24
5	1	24		21.87	21.78	22.17
5	12	0		20.64	20.57	21.09
5	12	7		20.65	20.61	21.10
5	12	13		20.63	20.56	21.07
5	25	0		20.63	20.56	21.09
5	1	0	64-QAM	21.35	21.34	21.49
5	1	12		21.28	21.38	21.51
5	1	24		21.33	21.38	21.38
5	12	0		20.15	20.27	20.68
5	12	7		20.28	20.43	20.39
5	12	13		20.32	20.19	20.53
5	25	0		20.36	20.18	20.59

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.13	22.23	22.47
3	1	8		22.16	22.21	22.35
3	1	14		22.10	22.25	22.53
3	8	0		21.28	21.21	21.50
3	8	4		21.25	21.31	21.46
3	8	7		21.22	21.29	21.47
3	15	0		21.28	21.33	21.55
3	1	0	16-QAM	21.26	21.41	21.65
3	1	8		21.34	21.42	21.74
3	1	14		21.45	21.33	21.56
3	8	0		20.27	20.23	20.51
3	8	4		20.25	20.23	20.49
3	8	7		20.28	20.37	20.44
3	15	0		20.35	20.27	20.41
3	1	0	64-QAM	21.26	21.41	21.56
3	1	8		21.26	21.28	21.55
3	1	14		21.48	21.16	21.49
3	8	0		20.29	20.10	20.49
3	8	4		20.25	20.14	20.42
3	8	7		20.18	20.17	20.43
3	15	0		20.08	20.20	20.59
1.4	1	0	QPSK	22.09	22.20	22.45
1.4	1	3		22.20	22.12	22.36
1.4	1	5		22.11	22.15	22.33
1.4	3	0		22.15	22.15	22.34
1.4	3	1		22.28	22.17	22.59
1.4	3	3		22.06	22.13	22.40
1.4	6	0		21.20	21.22	21.48
1.4	1	0	16-QAM	21.34	21.23	21.53
1.4	1	3		21.32	21.35	21.57
1.4	1	5		21.31	21.40	21.48
1.4	3	0		21.14	21.07	21.49
1.4	3	1		21.11	21.14	21.47
1.4	3	3		21.21	21.18	21.31
1.4	6	0		20.23	20.19	20.49
1.4	1	0	64-QAM	21.08	21.09	21.53
1.4	1	3		21.41	21.30	21.52
1.4	1	5		21.28	21.18	21.40
1.4	3	0		21.19	21.26	21.54
1.4	3	1		21.30	21.14	21.40
1.4	3	3		21.14	21.23	21.43
1.4	6	0		20.06	20.20	20.41

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.87	**22.92**	22.81
20	1	49		22.55	22.52	22.70
20	1	99		22.67	22.72	22.76
20	50	0		21.68	21.65	21.83
20	50	24		21.68	21.63	21.83
20	50	50		21.57	21.60	21.81
20	100	0		21.68	21.63	21.83
20	1	0	16-QAM	22.24	22.16	22.07
20	1	49		21.88	21.82	22.02
20	1	99		21.95	22.01	22.00
20	50	0		20.72	20.67	20.83
20	50	24		20.67	20.65	20.87
20	50	50		20.55	20.61	20.85
20	100	0		20.67	20.64	20.84
20	1	0	64-QAM	20.57	20.83	20.66
20	1	49		20.42	20.46	20.48
20	1	99		20.26	20.43	20.31
20	50	0		19.23	19.64	19.37
20	50	24		19.28	19.39	19.43
20	50	50		19.34	19.22	19.32
20	100	0		19.29	19.66	19.53
15	1	0	QPSK	22.77	22.64	22.84
15	1	37		22.55	22.53	22.72
15	1	74		22.51	22.57	22.77
15	36	0		21.75	21.65	21.83
15	36	20		21.64	21.63	21.84
15	36	39		21.61	21.61	21.85
15	75	0		21.64	21.62	21.87
15	1	0	16-QAM	22.05	21.92	22.14
15	1	37		21.86	21.85	22.03
15	1	74		21.78	21.89	22.03
15	36	0		20.76	20.63	20.85
15	36	20		20.66	20.62	20.85
15	36	39		20.60	20.61	20.82
15	75	0		20.65	20.60	20.85
15	1	0	64-QAM	20.46	20.47	20.79
15	1	37		20.13	20.28	20.21
15	1	74		20.27	20.13	20.47
15	36	0		19.24	19.28	19.66
15	36	20		19.15	19.30	19.48
15	36	39		19.36	19.17	19.36
15	75	0		19.32	19.39	19.38

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.90	22.78	22.79
10	1	25		22.54	22.53	22.76
10	1	49		22.75	22.77	22.82
10	25	0		21.70	21.60	21.84
10	25	12		21.58	21.61	21.87
10	25	25		21.58	21.61	21.89
10	50	0		21.60	21.62	21.86
10	1	0	16-QAM	22.18	22.08	22.10
10	1	25		21.83	21.83	21.98
10	1	49		22.03	22.06	22.02
10	25	0		20.73	20.63	20.87
10	25	12		20.65	20.65	20.86
10	25	25		20.60	20.60	20.87
10	50	0		20.62	20.63	20.88
10	1	0	64-QAM	20.47	20.52	20.46
10	1	25		20.24	20.37	20.47
10	1	49		20.29	20.46	20.40
10	25	0		19.28	19.23	19.38
10	25	12		19.28	19.35	19.34
10	25	25		19.28	19.46	19.38
10	50	0		19.33	19.31	19.46
5	1	0	QPSK	22.66	22.57	22.80
5	1	12		22.60	22.50	22.79
5	1	24		22.53	22.55	22.81
5	12	0		21.67	21.60	21.84
5	12	7		21.67	21.63	21.87
5	12	13		21.64	21.60	21.84
5	25	0		21.65	21.57	21.86
5	1	0	16-QAM	21.94	21.87	22.00
5	1	12		21.91	21.86	21.99
5	1	24		21.84	21.87	22.01
5	12	0		20.70	20.60	20.83
5	12	7		20.70	20.62	20.85
5	12	13		20.66	20.59	20.82
5	25	0		20.69	20.60	20.84
5	1	0	64-QAM	20.22	20.35	20.44
5	1	12		20.15	20.26	20.37
5	1	24		20.19	20.44	20.32
5	12	0		19.33	19.27	19.41
5	12	7		19.11	19.31	19.29
5	12	13		19.07	19.18	19.39
5	25	0		19.11	19.40	19.42

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.18	22.21	22.31
3	1	8		22.20	22.12	22.37
3	1	14		22.16	22.10	22.41
3	8	0		21.12	21.37	21.38
3	8	4		21.14	21.24	21.37
3	8	7		21.19	21.18	21.30
3	15	0		21.15	21.25	21.27
3	1	0	16-QAM	21.40	21.52	21.52
3	1	8		21.30	21.51	21.46
3	1	14		21.43	21.47	21.44
3	8	0		20.30	20.40	20.37
3	8	4		20.28	20.27	20.43
3	8	7		20.14	20.28	20.46
3	15	0		20.23	20.32	20.26
3	1	0	64-QAM	20.21	20.31	20.40
3	1	8		20.25	20.33	20.34
3	1	14		20.25	20.30	20.42
3	8	0		19.34	19.36	19.39
3	8	4		19.23	19.25	19.52
3	8	7		19.26	19.30	19.23
3	15	0		19.05	19.22	19.46
1.4	1	0	QPSK	22.07	22.06	22.29
1.4	1	3		22.17	22.22	22.24
1.4	1	5		22.04	22.08	22.20
1.4	3	0		22.13	22.20	22.25
1.4	3	1		22.21	22.26	22.39
1.4	3	3		22.04	22.24	22.27
1.4	6	0		21.02	21.27	21.36
1.4	1	0	16-QAM	21.20	21.42	21.30
1.4	1	3		21.27	21.46	21.49
1.4	1	5		21.20	21.28	21.40
1.4	3	0		21.09	21.13	21.38
1.4	3	1		21.05	21.35	21.34
1.4	3	3		21.18	21.13	21.26
1.4	6	0		20.15	20.37	20.36
1.4	1	0	64-QAM	20.24	20.58	20.29
1.4	1	3		20.07	20.33	20.27
1.4	1	5		20.10	20.22	20.24
1.4	3	0		20.09	20.16	20.25
1.4	3	1		20.19	20.34	20.20
1.4	3	3		20.09	20.33	20.28
1.4	6	0		19.10	19.25	19.35

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.80	22.84	**22.92**
20	1	49		22.64	22.69	22.67
20	1	99		22.65	22.70	22.65
20	50	0		21.77	21.84	21.88
20	50	24		21.72	21.78	21.73
20	50	50		21.70	21.73	21.74
20	100	0		21.74	21.77	21.79
20	1	0	16-QAM	22.06	22.08	22.21
20	1	49		21.90	21.94	21.95
20	1	99		21.89	21.97	21.94
20	50	0		20.78	20.83	20.91
20	50	24		20.73	20.78	20.77
20	50	50		20.70	20.74	20.72
20	100	0		20.73	20.76	20.78
20	1	0	64-QAM	21.84	21.88	21.63
20	1	49		21.43	21.45	21.57
20	1	99		21.16	21.48	21.61
20	50	0		20.53	20.46	20.43
20	50	24		20.59	20.48	20.65
20	50	50		20.43	20.34	20.56
20	100	0		20.64	20.54	20.55
15	1	0	QPSK	22.77	22.85	22.91
15	1	37		22.63	22.67	22.68
15	1	74		22.68	22.70	22.72
15	36	0		21.74	21.78	21.82
15	36	20		21.69	21.78	21.74
15	36	39		21.67	21.73	21.70
15	75	0		21.71	21.77	21.75
15	1	0	16-QAM	22.03	22.10	22.20
15	1	37		21.92	21.95	21.99
15	1	74		21.95	21.99	22.01
15	36	0		20.76	20.79	20.80
15	36	20		20.75	20.76	20.78
15	36	39		20.67	20.76	20.74
15	75	0		20.71	20.76	20.77
15	1	0	64-QAM	21.68	21.48	21.64
15	1	37		21.48	21.37	21.62
15	1	74		21.36	21.41	21.37
15	36	0		20.65	20.44	20.57
15	36	20		20.44	20.39	20.51
15	36	39		20.44	20.54	20.53
15	75	0		20.34	20.26	20.56

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.73	22.80	22.82
10	1	25		22.68	22.73	22.72
10	1	49		22.69	22.73	22.70
10	25	0		21.73	21.77	21.79
10	25	12		21.73	21.75	21.75
10	25	25		21.68	21.76	21.76
10	50	0		21.71	21.75	21.77
10	1	0	16-QAM	21.97	22.02	22.07
10	1	25		21.94	21.94	22.01
10	1	49		21.94	21.98	22.02
10	25	0		20.72	20.77	20.79
10	25	12		20.74	20.75	20.78
10	25	25		20.68	20.73	20.73
10	50	0		20.75	20.76	20.79
10	1	0	64-QAM	21.69	21.62	21.72
10	1	25		21.56	21.40	21.65
10	1	49		21.37	21.50	21.53
10	25	0		20.56	20.46	20.60
10	25	12		20.62	20.52	20.63
10	25	25		20.44	20.29	20.57
10	50	0		20.48	20.41	20.66
5	1	0	QPSK	22.70	22.74	22.75
5	1	12		22.66	22.73	22.71
5	1	24		22.64	22.73	22.71
5	12	0		21.66	21.76	21.77
5	12	7		21.69	21.75	21.79
5	12	13		21.65	21.71	21.70
5	25	0		21.69	21.73	21.75
5	1	0	16-QAM	21.94	21.97	22.08
5	1	12		21.92	21.98	22.05
5	1	24		21.91	21.97	22.01
5	12	0		20.72	20.76	20.78
5	12	7		20.69	20.77	20.77
5	12	13		20.65	20.72	20.78
5	25	0		20.69	20.74	20.77
5	1	0	64-QAM	21.62	21.41	21.53
5	1	12		21.55	21.50	21.68
5	1	24		21.70	21.27	21.65
5	12	0		20.38	20.36	20.66
5	12	7		20.55	20.39	20.56
5	12	13		20.51	20.52	20.40
5	25	0		20.56	20.42	20.51

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.44	22.32	22.52
3	1	8		22.50	22.41	22.36
3	1	14		22.44	22.23	22.53
3	8	0		21.53	21.28	21.51
3	8	4		21.42	21.43	21.53
3	8	7		21.54	21.38	21.45
3	15	0		21.38	21.27	21.50
3	1	0	16-QAM	21.65	21.49	21.64
3	1	8		21.74	21.59	21.76
3	1	14		21.69	21.52	21.67
3	8	0		20.46	20.49	20.50
3	8	4		20.53	20.47	20.59
3	8	7		20.50	20.38	20.57
3	15	0		20.50	20.39	20.45
3	1	0	64-QAM	21.58	21.44	21.45
3	1	8		21.65	21.37	21.44
3	1	14		21.36	21.36	21.59
3	8	0		20.48	20.31	20.74
3	8	4		20.47	20.40	20.46
3	8	7		20.50	20.37	20.41
3	15	0		20.54	20.18	20.45
1.4	1	0	QPSK	22.26	22.27	22.29
1.4	1	3		22.50	22.26	22.48
1.4	1	5		22.27	22.27	22.40
1.4	3	0		22.47	22.23	22.45
1.4	3	1		22.47	22.43	22.49
1.4	3	3		22.42	22.37	22.40
1.4	6	0		21.39	21.31	21.49
1.4	1	0	16-QAM	21.49	21.49	21.75
1.4	1	3		21.55	21.50	21.67
1.4	1	5		21.53	21.47	21.62
1.4	3	0		21.36	21.18	21.39
1.4	3	1		21.52	21.37	21.44
1.4	3	3		21.42	21.21	21.49
1.4	6	0		20.38	20.46	20.52
1.4	1	0	64-QAM	21.39	21.24	21.44
1.4	1	3		21.34	21.40	21.60
1.4	1	5		21.63	21.37	21.70
1.4	3	0		21.39	21.24	21.57
1.4	3	1		21.45	21.15	21.49
1.4	3	3		21.48	21.24	21.50
1.4	6	0		20.36	20.31	20.41

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	**23.66**	23.57	23.47
10	1	25		23.44	23.45	23.40
10	1	49		23.46	23.38	23.29
10	25	0		22.56	22.56	22.47
10	25	12		22.54	22.52	22.48
10	25	25		22.56	22.48	22.43
10	50	0		22.49	22.53	22.43
10	1	0	16-QAM	22.73	22.78	22.73
10	1	25		22.63	22.73	22.65
10	1	49		22.69	22.64	22.53
10	25	0		21.53	21.57	21.50
10	25	12		21.53	21.56	21.49
10	25	25		21.54	21.50	21.40
10	50	0		21.51	21.52	21.45
10	1	0	64-QAM	21.43	21.20	21.25
10	1	25		21.37	21.26	21.10
10	1	49		21.23	21.06	20.90
10	25	0		20.19	20.21	20.11
10	25	12		20.17	20.06	19.99
10	25	25		20.18	20.09	19.88
10	50	0		20.29	20.18	19.87
5	1	0	QPSK	23.65	23.44	23.62
5	1	12		23.62	23.39	23.62
5	1	24		23.59	23.38	23.59
5	12	0		22.67	22.45	22.67
5	12	7		22.68	22.44	22.68
5	12	13		22.62	22.40	22.62
5	25	0		22.66	22.46	22.66
5	1	0	16-QAM	22.81	22.70	22.81
5	1	12		22.79	22.66	22.79
5	1	24		22.75	22.60	22.75
5	12	0		21.66	21.50	21.66
5	12	7		21.68	21.50	21.68
5	12	13		21.63	21.42	21.63
5	25	0		21.67	21.45	21.67
5	1	0	64-QAM	21.43	21.27	21.34
5	1	12		21.36	21.32	21.11
5	1	24		21.28	21.10	20.93
5	12	0		20.23	20.14	19.99
5	12	7		20.20	20.14	19.91
5	12	13		20.12	20.15	19.80
5	25	0		20.16	20.12	19.98

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.65	23.54	23.40
3	1	8		23.64	23.49	23.38
3	1	14		23.61	23.48	23.31
3	8	0		22.65	22.53	22.46
3	8	4		22.66	22.54	22.43
3	8	7		22.64	22.53	22.43
3	15	0		22.65	22.51	22.40
3	1	0	16-QAM	22.83	22.77	22.64
3	1	8		22.85	22.76	22.62
3	1	14		22.77	22.74	22.55
3	8	0		21.73	21.60	21.51
3	8	4		21.73	21.63	21.51
3	8	7		21.71	21.58	21.45
3	15	0		21.66	21.57	21.44
3	1	0	64-QAM	21.29	21.22	21.22
3	1	8		21.25	21.33	21.11
3	1	14		21.38	21.19	20.92
3	8	0		20.24	20.04	20.10
3	8	4		20.19	20.11	19.88
3	8	7		20.14	20.03	19.80
3	15	0		20.23	20.13	19.86
1.4	1	0	QPSK	23.52	23.50	23.37
1.4	1	3		23.56	23.44	23.41
1.4	1	5		23.47	23.39	23.32
1.4	3	0		23.55	23.43	23.41
1.4	3	1		23.61	23.48	23.47
1.4	3	3		23.56	23.47	23.41
1.4	6	0		22.57	22.46	22.42
1.4	1	0	16-QAM	22.72	22.68	22.64
1.4	1	3		22.77	22.74	22.66
1.4	1	5		22.72	22.63	22.56
1.4	3	0		22.55	22.44	22.43
1.4	3	1		22.59	22.48	22.46
1.4	3	3		22.55	22.45	22.41
1.4	6	0		21.62	21.52	21.49
1.4	1	0	64-QAM	21.39	21.38	21.26
1.4	1	3		21.26	21.28	20.96
1.4	1	5		21.29	21.14	20.98
1.4	3	0		21.25	21.21	21.07
1.4	3	1		21.26	21.11	21.04
1.4	3	3		21.15	21.15	21.02
1.4	6	0		20.23	20.16	19.96

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.15	**22.51**	22.34
20	1	49		22.15	22.46	22.24
20	1	99		22.28	22.38	22.16
20	50	0		21.13	21.58	21.31
20	50	24		21.24	21.55	21.33
20	50	50		21.20	21.53	21.16
20	100	0		21.22	21.57	21.30
20	1	0	16-QAM	21.45	21.74	21.61
20	1	49		21.43	21.77	21.52
20	1	99		21.56	21.65	21.43
20	50	0		20.19	20.58	20.34
20	50	24		20.25	20.56	20.32
20	50	50		20.20	20.54	20.17
20	100	0		20.20	20.55	20.30
20	1	0	64-QAM	20.83	20.81	20.83
20	1	49		20.76	20.81	20.68
20	1	99		20.86	20.53	20.51
20	50	0		19.53	19.79	19.88
20	50	24		19.83	19.68	19.90
20	50	50		19.78	19.79	19.69
20	100	0		19.85	19.65	19.88
15	1	0	QPSK	22.16	22.43	22.33
15	1	37		22.16	22.49	22.14
15	1	74		22.15	22.38	22.16
15	36	0		21.12	21.58	21.30
15	36	20		21.21	21.56	21.22
15	36	39		21.17	21.55	21.18
15	75	0		21.20	21.55	21.19
15	1	0	16-QAM	21.43	21.72	21.60
15	1	37		21.44	21.78	21.44
15	1	74		21.43	21.66	21.44
15	36	0		20.15	20.56	20.32
15	36	20		20.22	20.58	20.21
15	36	39		20.20	20.55	20.14
15	75	0		20.21	20.53	20.20
15	1	0	64-QAM	20.56	20.68	20.66
15	1	37		20.40	20.52	20.62
15	1	74		20.48	20.34	20.67
15	36	0		19.60	19.66	19.89
15	36	20		19.64	19.57	19.66
15	36	39		19.51	19.55	19.60
15	75	0		19.47	19.75	19.78

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.04	22.49	22.26
10	1	25		22.00	22.47	22.12
10	1	49		22.05	22.45	22.08
10	25	0		21.03	21.49	21.13
10	25	12		21.05	21.50	21.17
10	25	25		21.09	21.45	21.13
10	50	0		21.04	21.49	21.10
10	1	0	16-QAM	21.32	21.74	21.51
10	1	25		21.27	21.73	21.39
10	1	49		21.35	21.70	21.36
10	25	0		20.05	20.48	20.15
10	25	12		20.07	20.50	20.14
10	25	25		20.10	20.46	20.10
10	50	0		20.06	20.51	20.13
10	1	0	64-QAM	20.98	20.66	21.19
10	1	25		20.90	20.82	21.14
10	1	49		20.82	20.52	20.94
10	25	0		19.96	19.72	20.13
10	25	12		20.03	19.62	20.17
10	25	25		19.85	19.76	20.23
10	50	0		19.95	19.86	20.14
5	1	0	QPSK	22.01	22.45	22.12
5	1	12		22.02	22.47	22.14
5	1	24		22.00	22.45	22.13
5	12	0		21.04	21.50	21.18
5	12	7		21.09	21.54	21.17
5	12	13		21.07	21.47	21.13
5	25	0		21.02	21.48	21.13
5	1	0	16-QAM	21.30	21.70	21.41
5	1	12		21.30	21.73	21.44
5	1	24		21.22	21.71	21.38
5	12	0		20.08	20.49	20.18
5	12	7		20.10	20.56	20.18
5	12	13		20.08	20.48	20.15
5	25	0		20.04	20.48	20.14
5	1	0	64-QAM	21.10	20.61	21.08
5	1	12		20.78	20.55	21.29
5	1	24		20.78	20.58	21.18
5	12	0		19.99	19.85	20.15
5	12	7		20.03	19.79	20.19
5	12	13		20.02	19.57	20.15
5	25	0		19.92	19.74	20.27

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.22	23.31	**23.44**
10	1	25		23.28	23.36	23.32
10	1	49		23.37	23.30	23.36
10	25	0		22.36	22.31	22.38
10	25	12		22.36	22.42	22.41
10	25	25		22.41	22.42	22.48
10	50	0		22.44	22.42	22.36
10	1	0	16-QAM	22.48	22.57	22.55
10	1	25		22.57	22.56	22.56
10	1	49		22.54	22.58	22.63
10	25	0		21.35	21.35	21.40
10	25	12		21.39	21.45	21.39
10	25	25		21.44	21.40	21.44
10	50	0		21.45	21.44	21.36
10	1	0	64-QAM	21.06	21.01	21.13
10	1	25		21.29	21.26	20.99
10	1	49		21.20	21.16	21.27
10	25	0		19.94	20.12	19.98
10	25	12		20.02	20.05	19.90
10	25	25		20.04	20.04	20.13
10	50	0		20.03	19.94	20.03
5	1	0	QPSK	23.37	23.28	23.32
5	1	12		23.42	23.39	23.39
5	1	24		23.41	23.37	23.38
5	12	0		22.39	22.45	22.48
5	12	7		22.52	22.45	22.45
5	12	13		22.45	22.39	22.44
5	25	0		22.45	22.41	22.43
5	1	0	16-QAM	22.64	22.55	22.57
5	1	12		22.74	22.59	22.68
5	1	24		22.71	22.59	22.61
5	12	0		21.43	21.46	21.45
5	12	7		21.51	21.46	21.48
5	12	13		21.49	21.41	21.48
5	25	0		21.51	21.43	21.45
5	1	0	64-QAM	21.13	21.06	21.14
5	1	12		21.12	21.16	21.08
5	1	24		21.19	21.13	21.17
5	12	0		19.92	20.02	19.97
5	12	7		20.01	20.11	19.91
5	12	13		19.97	19.94	19.94
5	25	0		19.93	19.94	19.94

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.25	23.39	23.41
3	1	8		23.24	23.38	23.38
3	1	14		23.36	23.37	23.35
3	8	0		22.29	22.43	22.42
3	8	4		22.33	22.45	22.45
3	8	7		22.30	22.42	22.42
3	15	0		22.27	22.38	22.44
3	1	0	16-QAM	22.50	22.59	22.64
3	1	8		22.51	22.55	22.66
3	1	14		22.63	22.51	22.60
3	8	0		21.36	21.48	21.48
3	8	4		21.39	21.52	21.54
3	8	7		21.35	21.48	21.47
3	15	0		21.31	21.42	21.46
3	1	0	64-QAM	21.01	21.07	21.13
3	1	8		21.25	21.09	21.07
3	1	14		21.18	21.05	21.07
3	8	0		19.82	20.02	20.05
3	8	4		20.09	20.12	20.03
3	8	7		19.93	20.08	19.95
3	15	0		20.10	19.99	19.89
1.4	1	0	QPSK	23.15	23.25	23.31
1.4	1	3		23.22	23.30	23.34
1.4	1	5		23.16	23.27	23.26
1.4	3	0		23.22	23.33	23.34
1.4	3	1		23.24	23.40	23.39
1.4	3	3		23.21	23.33	23.32
1.4	6	0		22.22	22.32	22.31
1.4	1	0	16-QAM	22.40	22.48	22.53
1.4	1	3		22.50	22.53	22.60
1.4	1	5		22.42	22.47	22.52
1.4	3	0		22.25	22.33	22.33
1.4	3	1		22.28	22.36	22.38
1.4	3	3		22.25	22.33	22.34
1.4	6	0		21.29	21.39	21.41
1.4	1	0	64-QAM	21.08	21.07	21.14
1.4	1	3		21.28	21.15	20.97
1.4	1	5		21.14	20.97	21.21
1.4	3	0		20.83	20.96	20.96
1.4	3	1		21.10	21.04	21.02
1.4	3	3		21.06	20.93	21.10
1.4	6	0		19.99	19.99	19.93

LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.15	**23.43**	23.22
10	1	25		23.32	23.29	23.32
10	1	49		23.36	23.34	23.34
10	25	0		22.40	22.40	22.37
10	25	12		22.41	22.41	22.39
10	25	25		22.39	22.45	22.43
10	50	0		22.37	22.35	22.36
10	1	0	16-QAM	22.41	22.46	22.43
10	1	25		22.49	22.51	22.53
10	1	49		22.64	22.61	22.59
10	25	0		21.40	21.39	21.37
10	25	12		21.42	21.42	21.39
10	25	25		21.37	21.42	21.42
10	50	0		21.40	21.36	21.35
10	1	0	64-QAM	21.05	21.13	21.14
10	1	25		21.23	21.10	21.16
10	1	49		21.27	21.15	21.13
10	25	0		19.96	20.02	20.00
10	25	12		20.09	20.09	19.96
10	25	25		19.96	20.06	20.10
10	50	0		19.99	20.13	20.08
5	1	0	QPSK	23.08	23.34	23.31
5	1	12		23.15	23.32	23.38
5	1	24		23.27	23.42	23.36
5	12	0		22.24	22.38	22.43
5	12	7		22.26	22.39	22.46
5	12	13		22.21	22.33	22.40
5	25	0		22.21	22.40	22.44
5	1	0	16-QAM	22.33	22.49	22.53
5	1	12		22.40	22.52	22.63
5	1	24		22.42	22.65	22.56
5	12	0		21.26	21.38	21.46
5	12	7		21.26	21.38	21.44
5	12	13		21.19	21.35	21.41
5	25	0		21.23	21.38	21.41
5	1	0	64-QAM	21.05	21.12	21.15
5	1	12		21.04	21.15	21.12
5	1	24		21.23	21.28	21.09
5	12	0		20.02	20.00	20.07
5	12	7		20.11	20.02	20.06
5	12	13		20.04	20.01	20.01
5	25	0		20.10	19.94	19.94

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.70	**23.75**	23.73
15	1	37		23.68	23.65	23.58
15	1	74		23.72	23.47	23.57
15	36	0		22.93	22.91	22.78
15	36	20		22.85	22.78	22.67
15	36	39		22.73	22.66	22.60
15	75	0		22.68	22.73	22.75
15	1	0	16-QAM	22.92	22.99	23.08
15	1	37		23.02	22.90	22.90
15	1	74		22.91	22.91	22.74
15	36	0		21.82	21.80	21.79
15	36	20		21.78	21.75	21.76
15	36	39		21.79	21.77	21.59
15	75	0		21.85	21.76	21.79
15	1	0	64-QAM	21.46	21.51	21.57
15	1	37		21.43	21.52	21.36
15	1	74		21.36	21.46	21.26
15	36	0		20.33	20.35	20.32
15	36	20		20.36	20.42	20.21
15	36	39		20.41	20.32	20.18
15	75	0		20.41	20.30	20.25
10	1	0	QPSK	23.62	23.69	23.66
10	1	25		23.64	23.70	23.57
10	1	49		23.65	23.60	23.46
10	25	0		22.64	22.79	22.66
10	25	12		22.69	22.80	22.67
10	25	25		22.67	22.73	22.60
10	50	0		22.69	22.73	22.63
10	1	0	16-QAM	22.86	22.89	22.91
10	1	25		22.89	22.96	22.83
10	1	49		22.89	22.87	22.71
10	25	0		21.63	21.81	21.69
10	25	12		21.73	21.77	21.66
10	25	25		21.65	21.69	21.58
10	50	0		21.72	21.77	21.64
10	1	0	64-QAM	21.49	21.64	21.57
10	1	25		21.40	21.57	21.34
10	1	49		21.43	21.41	21.17
10	25	0		20.28	20.40	20.33
10	25	12		20.35	20.48	20.32
10	25	25		20.41	20.39	20.11
10	50	0		20.40	20.38	20.20

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.72	23.72	23.58
5	1	12		23.69	23.71	23.55
5	1	24		23.66	23.67	23.53
5	12	0		22.75	22.75	22.60
5	12	7		22.73	22.75	22.64
5	12	13		22.82	22.71	22.56
5	25	0		22.69	22.72	22.61
5	1	0	16-QAM	22.96	22.94	22.84
5	1	12		22.93	22.92	22.83
5	1	24		22.98	22.91	22.74
5	12	0		21.77	21.80	21.65
5	12	7		21.78	21.79	21.60
5	12	13		21.81	21.74	21.58
5	25	0		21.73	21.77	21.61
5	1	0	64-QAM	21.42	21.63	21.65
5	1	12		21.38	21.48	21.28
5	1	24		21.35	21.36	21.20
5	12	0		20.29	20.51	20.48
5	12	7		20.42	20.54	20.33
5	12	13		20.27	20.42	20.24
5	25	0		20.29	20.46	20.14
3	1	0	QPSK	23.74	23.74	23.58
3	1	8		23.70	23.73	23.54
3	1	14		23.69	23.69	23.54
3	8	0		22.76	22.78	22.60
3	8	4		22.77	22.76	22.65
3	8	7		22.73	22.76	22.57
3	15	0		22.75	22.74	22.60
3	1	0	16-QAM	22.95	22.91	22.80
3	1	8		22.95	22.94	22.79
3	1	14		22.90	22.92	22.68
3	8	0		21.82	21.82	21.68
3	8	4		21.81	21.85	21.66
3	8	7		21.80	21.79	21.65
3	15	0		21.77	21.79	21.60
3	1	0	64-QAM	21.39	21.49	21.47
3	1	8		21.52	21.58	21.26
3	1	14		21.29	21.50	21.20
3	8	0		20.47	20.35	20.32
3	8	4		20.43	20.42	20.30
3	8	7		20.41	20.30	20.26
3	15	0		20.35	20.33	20.16

LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.53	23.61	23.46
1.4	1	3		23.58	23.67	23.49
1.4	1	5		23.50	23.60	23.40
1.4	3	0		23.57	23.67	23.49
1.4	3	1		23.63	23.72	23.55
1.4	3	3		23.57	23.68	23.47
1.4	6	0		22.60	22.65	22.48
1.4	1	0	16-QAM	22.75	22.86	22.71
1.4	1	3		22.82	22.92	22.74
1.4	1	5		22.76	22.82	22.66
1.4	3	0		22.58	22.68	22.51
1.4	3	1		22.62	22.71	22.56
1.4	3	3		22.56	22.66	22.47
1.4	6	0		21.61	21.75	21.55
1.4	1	0	64-QAM	21.42	21.51	21.51
1.4	1	3		21.52	21.55	21.28
1.4	1	5		21.36	21.40	21.20
1.4	3	0		20.31	20.33	20.38
1.4	3	1		20.39	20.55	20.37
1.4	3	3		20.39	20.30	20.18
1.4	6	0		20.38	20.47	20.17

LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.19	**22.33**	22.22
20	1	49		22.11	22.24	22.06
20	1	99		22.23	22.12	22.03
20	50	0		21.16	21.22	21.10
20	50	24		21.16	21.15	21.08
20	50	50		21.21	21.08	21.10
20	100	0		21.14	21.18	21.06
20	1	0	16-QAM	21.29	21.40	21.27
20	1	49		21.14	21.28	21.13
20	1	99		21.31	21.22	21.07
20	50	0		20.22	20.28	20.17
20	50	24		20.15	20.25	20.10
20	50	50		20.22	20.07	20.10
20	100	0		20.11	20.24	20.10
20	1	0	64-QAM	21.91	21.89	21.84
20	1	49		21.82	21.95	21.87
20	1	99		21.65	21.72	21.80
20	50	0		20.70	20.82	20.98
20	50	24		20.85	20.95	20.79
20	50	50		20.61	20.84	20.80
20	100	0		20.65	20.84	20.85
15	1	0	QPSK	22.07	22.26	22.20
15	1	37		22.00	22.21	22.06
15	1	74		22.12	22.18	22.01
15	36	0		22.07	21.13	21.01
15	36	20		21.00	21.21	21.02
15	36	39		22.02	21.02	22.02
15	75	0		21.00	21.16	21.04
15	1	0	16-QAM	21.13	21.36	21.26
15	1	37		21.06	21.25	21.14
15	1	74		21.19	21.20	21.09
15	36	0		20.01	20.17	20.08
15	36	20		20.07	20.20	20.05
15	36	39		20.01	20.06	20.01
15	75	0		20.08	20.14	20.10
15	1	0	64-QAM	21.83	21.77	21.95
15	1	37		21.81	21.74	21.80
15	1	74		21.88	21.80	21.72
15	36	0		20.77	20.88	20.85
15	36	20		20.84	20.76	20.82
15	36	39		20.76	20.50	20.66
15	75	0		20.91	20.69	20.82

LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.09	22.22	22.05
10	1	25		22.08	22.22	22.07
10	1	49		22.09	22.11	22.01
10	25	0		21.07	21.12	21.07
10	25	12		21.06	21.17	21.10
10	25	25		21.10	21.10	21.05
10	50	0		21.03	21.17	21.08
10	1	0	16-QAM	21.24	21.34	21.18
10	1	25		21.18	21.31	21.19
10	1	49		21.13	21.16	21.05
10	25	0		20.05	20.21	20.07
10	25	12		20.15	20.17	20.15
10	25	25		20.08	20.21	20.04
10	50	0		20.11	20.24	20.16
10	1	0	64-QAM	21.80	21.88	21.70
10	1	25		21.74	21.76	21.53
10	1	49		21.63	21.84	21.75
10	25	0		20.82	20.69	20.63
10	25	12		20.76	20.84	20.60
10	25	25		20.72	20.78	20.73
10	50	0		20.76	20.59	20.80
5	1	0	QPSK	22.01	22.20	22.08
5	1	12		22.09	22.21	22.09
5	1	24		22.06	22.18	22.07
5	12	0		21.02	21.19	21.09
5	12	7		21.02	21.20	21.06
5	12	13		21.00	21.14	21.03
5	25	0		21.01	21.13	21.03
5	1	0	16-QAM	21.02	21.25	21.09
5	1	12		21.07	21.31	21.12
5	1	24		21.06	21.27	21.09
5	12	0		20.00	20.17	20.00
5	12	7		20.06	20.16	20.09
5	12	13		20.08	20.17	20.09
5	25	0		20.09	20.19	20.01
5	1	0	64-QAM	21.81	21.72	21.76
5	1	12		21.85	21.80	21.79
5	1	24		21.71	21.69	21.81
5	12	0		20.77	20.65	20.67
5	12	7		20.67	20.80	20.61
5	12	13		20.85	20.55	20.68
5	25	0		20.80	20.79	20.73

LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	**22.50**	**22.50**	**22.50**
20	1	49		22.43	22.49	22.33
20	1	99		22.43	22.30	22.31
20	50	0		21.48	21.45	21.28
20	50	24		21.47	21.37	21.29
20	50	50		21.47	21.27	21.21
20	100	0		21.46	21.49	21.27
20	1	0	16-QAM	21.58	21.25	21.60
20	1	49		21.49	21.42	21.43
20	1	99		21.51	21.36	21.39
20	50	0		20.49	20.50	20.33
20	50	24		20.50	20.25	20.35
20	50	50		20.45	20.31	20.22
20	100	0		20.43	20.27	20.32
20	1	0	64-QAM	20.65	20.45	20.39
20	1	49		20.52	20.37	20.40
20	1	99		20.56	20.52	20.33
20	50	0		19.47	19.48	19.38
20	50	24		19.48	19.36	19.26
20	50	50		19.38	19.29	19.12
20	100	0		19.48	19.42	19.19
15	1	0	QPSK	22.47	22.47	22.29
15	1	37		22.30	22.25	22.30
15	1	74		22.34	22.35	22.28
15	36	0		21.31	21.42	21.16
15	36	20		21.44	21.16	21.21
15	36	39		21.42	21.40	21.10
15	75	0		21.42	21.19	21.20
15	1	0	16-QAM	21.56	21.65	21.37
15	1	37		21.51	21.02	21.35
15	1	74		21.52	21.58	21.31
15	36	0		20.44	20.34	20.24
15	36	20		20.40	20.14	20.20
15	36	39		20.39	20.45	20.09
15	75	0		20.45	20.39	20.20
15	1	0	64-QAM	20.51	20.34	20.26
15	1	37		20.52	20.23	20.24
15	1	74		20.38	20.52	20.17
15	36	0		19.36	19.48	19.30
15	36	20		19.41	19.22	19.21
15	36	39		19.23	19.29	19.01
15	75	0		19.41	19.42	19.01

LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.34	22.26	22.28
10	1	25		22.32	22.03	22.23
10	1	49		22.31	22.23	22.27
10	25	0		21.25	21.17	21.19
10	25	12		21.29	21.08	21.09
10	25	25		21.22	21.30	21.15
10	50	0		21.38	21.16	21.08
10	1	0	16-QAM	21.50	21.66	21.40
10	1	25		21.49	21.21	21.32
10	1	49		21.36	21.24	21.27
10	25	0		20.30	20.19	20.21
10	25	12		20.40	20.14	20.17
10	25	25		20.38	20.11	20.09
10	50	0		20.43	20.28	20.16
10	1	0	64-QAM	20.50	20.33	20.23
10	1	25		20.46	20.31	20.28
10	1	49		20.49	20.32	20.20
10	25	0		19.47	19.37	19.31
10	25	12		19.34	19.21	19.21
10	25	25		19.23	19.19	19.07
10	50	0		19.46	19.38	19.12
5	1	0	QPSK	22.42	22.02	22.23
5	1	12		22.41	22.08	22.17
5	1	24		22.27	22.09	22.25
5	12	0		21.29	21.06	21.16
5	12	7		21.30	21.06	21.15
5	12	13		21.25	21.04	21.15
5	25	0		21.34	21.06	21.07
5	1	0	16-QAM	21.44	21.24	21.31
5	1	12		21.42	21.34	21.34
5	1	24		21.30	21.11	21.35
5	12	0		20.35	20.07	20.13
5	12	7		20.37	20.06	20.19
5	12	13		20.33	20.09	20.12
5	25	0		20.44	20.02	20.15
5	1	0	64-QAM	20.47	20.42	20.38
5	1	12		20.52	20.19	20.36
5	1	24		20.38	20.43	20.15
5	12	0		19.27	19.44	19.29
5	12	7		19.38	19.21	19.19
5	12	13		19.35	19.17	19.08
5	25	0		19.39	19.34	19.08

LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	22.50	**22.76**	22.64
20	1	49		22.33	22.54	22.44
20	1	99		22.31	22.37	22.24
20	50	0		21.45	21.60	21.58
20	50	24		21.40	21.54	21.50
20	50	50		21.37	21.52	21.36
20	100	0		21.41	21.53	21.52
20	1	0	16-QAM	21.79	21.93	21.95
20	1	49		21.64	21.79	21.70
20	1	99		21.59	21.65	21.51
20	50	0		20.50	20.64	20.59
20	50	24		20.42	20.58	20.52
20	50	50		20.39	20.48	20.37
20	100	0		20.41	20.57	20.51
20	1	0	64-QAM	21.41	21.24	21.23
20	1	49		21.16	20.96	20.75
20	1	99		21.14	20.74	20.87
20	50	0		20.34	20.08	20.12
20	50	24		20.34	20.19	19.87
20	50	50		20.21	19.95	19.84
20	100	0		20.30	19.98	19.98
15	1	0	QPSK	22.45	22.69	22.58
15	1	37		22.30	22.54	22.21
15	1	74		22.32	22.44	22.19
15	36	0		21.44	21.69	21.45
15	36	20		21.41	21.66	21.34
15	36	39		21.33	21.45	21.27
15	75	0		21.40	21.54	21.33
15	1	0	16-QAM	21.73	21.88	21.77
15	1	37		21.60	21.76	21.47
15	1	74		21.59	21.64	21.44
15	36	0		20.44	20.59	20.49
15	36	20		20.42	20.53	20.33
15	36	39		20.33	20.50	20.26
15	75	0		20.38	20.52	20.33
15	1	0	64-QAM	21.38	21.10	21.04
15	1	37		21.01	20.77	20.88
15	1	74		20.94	20.98	20.56
15	36	0		20.23	20.10	19.89
15	36	20		20.28	19.94	19.85
15	36	39		19.95	20.06	19.86
15	75	0		20.05	19.93	19.94

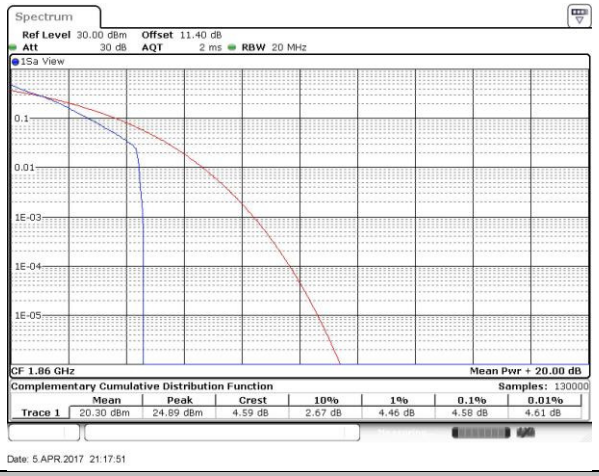
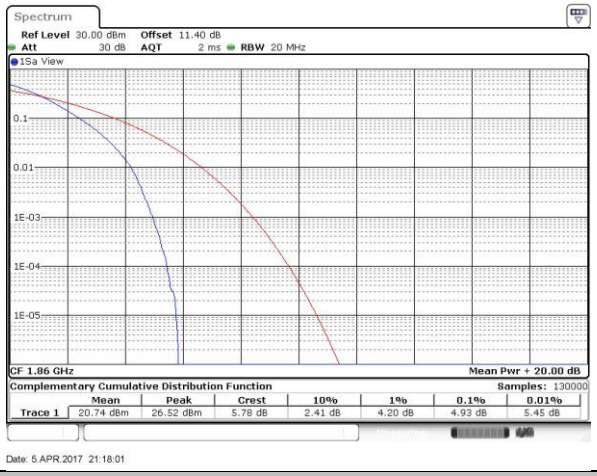
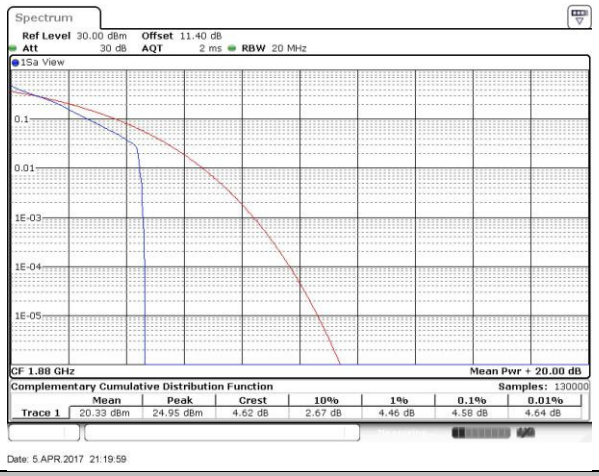
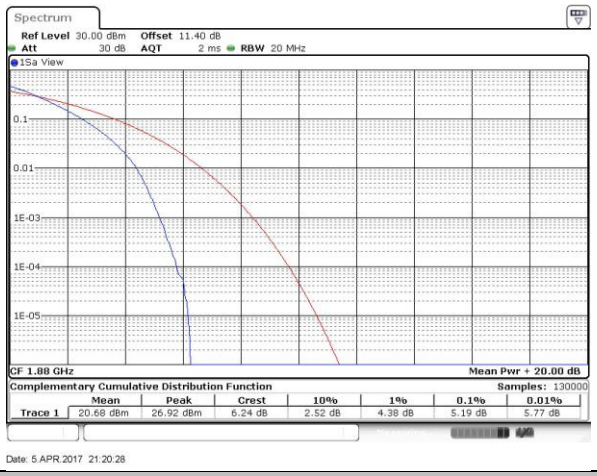
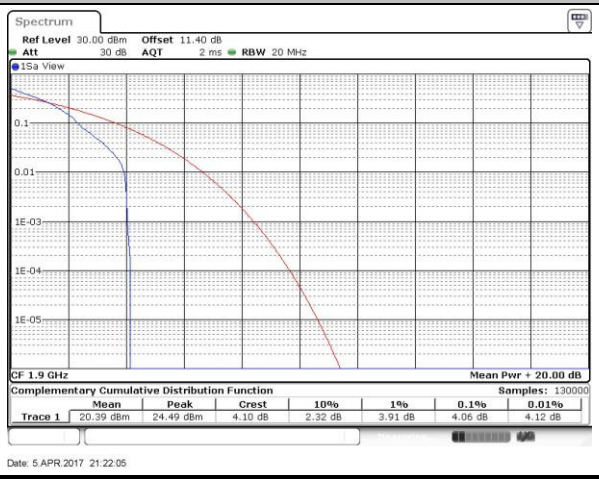
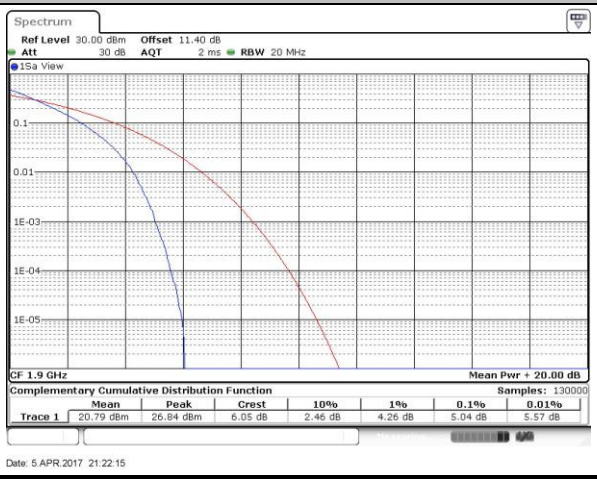
LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.41	22.65	22.54
10	1	25		22.31	22.56	22.33
10	1	49		22.27	22.46	22.29
10	25	0		21.37	21.53	21.45
10	25	12		21.34	21.50	21.39
10	25	25		21.34	21.49	21.37
10	50	0		21.34	21.48	21.41
10	1	0	16-QAM	21.66	21.81	21.80
10	1	25		21.60	21.75	21.55
10	1	49		21.58	21.73	21.54
10	25	0		20.38	20.54	20.43
10	25	12		20.38	20.53	20.39
10	25	25		20.35	20.46	20.35
10	50	0		20.37	20.53	20.40
10	1	0	64-QAM	21.15	20.89	21.05
10	1	25		21.13	20.84	21.02
10	1	49		21.10	20.86	21.01
10	25	0		20.19	19.91	20.06
10	25	12		20.16	19.92	20.02
10	25	25		20.20	19.97	19.95
10	50	0		20.14	19.91	20.15
5	1	0	QPSK	22.36	22.59	22.42
5	1	12		22.29	22.44	22.35
5	1	24		22.31	22.44	22.32
5	12	0		21.36	21.51	21.39
5	12	7		21.37	21.49	21.38
5	12	13		21.32	21.46	21.35
5	25	0		21.36	21.51	21.40
5	1	0	16-QAM	21.65	21.79	21.63
5	1	12		21.58	21.75	21.59
5	1	24		21.59	21.77	21.56
5	12	0		20.37	20.51	20.43
5	12	7		20.39	20.56	20.42
5	12	13		20.35	20.47	20.38
5	25	0		20.35	20.50	20.38
5	1	0	64-QAM	21.14	21.10	20.87
5	1	12		21.11	20.86	20.74
5	1	24		21.04	20.82	20.77
5	12	0		20.09	19.83	19.84
5	12	7		20.08	19.81	19.82
5	12	13		20.02	19.93	19.85
5	25	0		20.16	20.06	19.87

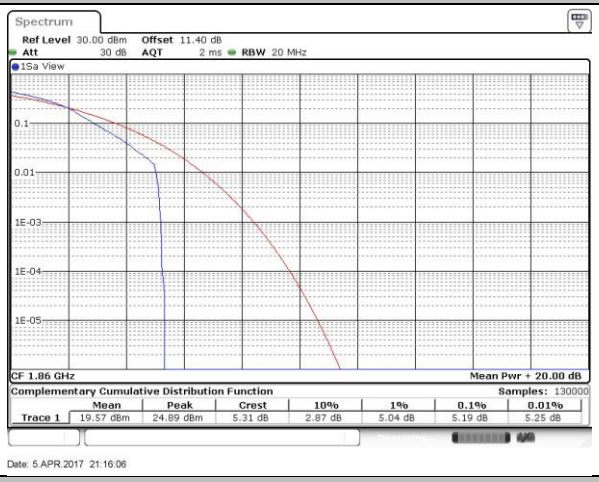
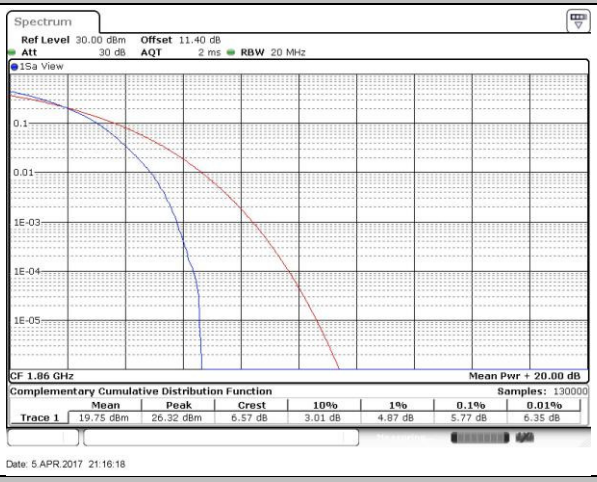
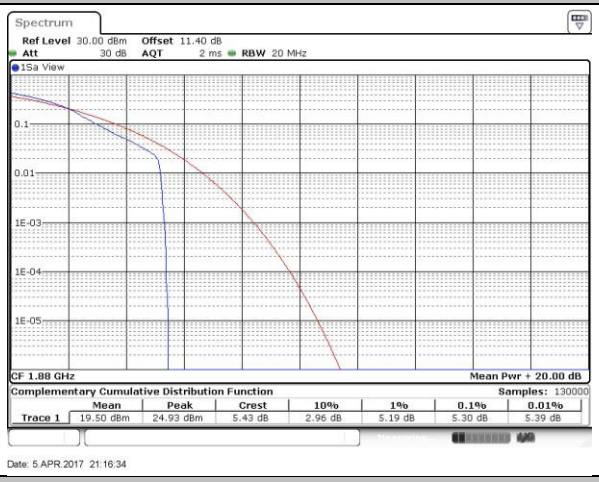
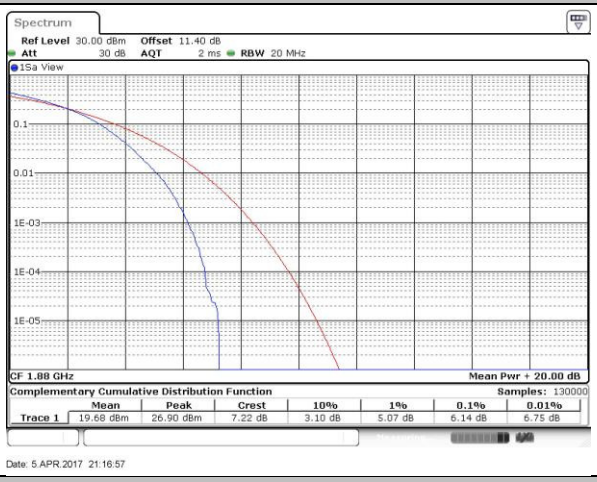
LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.31	22.56	22.42
3	1	8		22.28	22.53	22.32
3	1	14		22.26	22.53	22.35
3	8	0		21.29	21.56	21.44
3	8	4		21.33	21.61	21.38
3	8	7		21.30	21.55	21.38
3	15	0		21.30	21.55	21.33
3	1	0	16-QAM	21.59	21.76	21.37
3	1	8		21.58	21.80	21.33
3	1	14		21.55	21.70	21.36
3	8	0		20.38	20.54	20.28
3	8	4		20.39	20.56	20.34
3	8	7		20.35	20.61	20.22
3	15	0		20.31	20.50	20.25
3	1	0	64-QAM	21.04	21.03	20.77
3	1	8		21.05	20.90	20.65
3	1	14		21.08	20.90	20.65
3	8	0		19.98	19.93	19.83
3	8	4		20.02	19.93	19.88
3	8	7		20.02	19.97	19.74
3	15	0		20.18	19.94	19.72
1.4	1	0	QPSK	22.23	22.34	22.27
1.4	1	3		22.24	22.57	22.29
1.4	1	5		22.18	22.48	22.36
1.4	3	0		22.28	22.49	22.26
1.4	3	1		22.33	22.63	22.38
1.4	3	3		22.27	22.48	22.37
1.4	6	0		21.24	21.57	21.38
1.4	1	0	16-QAM	21.31	21.61	21.42
1.4	1	3		21.48	21.71	21.35
1.4	1	5		21.22	21.43	21.25
1.4	3	0		21.17	21.39	21.34
1.4	3	1		21.11	21.43	21.28
1.4	3	3		21.17	21.39	21.38
1.4	6	0		20.27	20.53	20.42
1.4	1	0	64-QAM	20.99	20.79	20.87
1.4	1	3		20.95	21.10	20.69
1.4	1	5		20.92	20.94	20.71
1.4	3	0		21.12	20.92	20.91
1.4	3	1		21.09	20.87	20.89
1.4	3	3		21.16	20.97	20.82
1.4	6	0		20.11	19.89	19.68

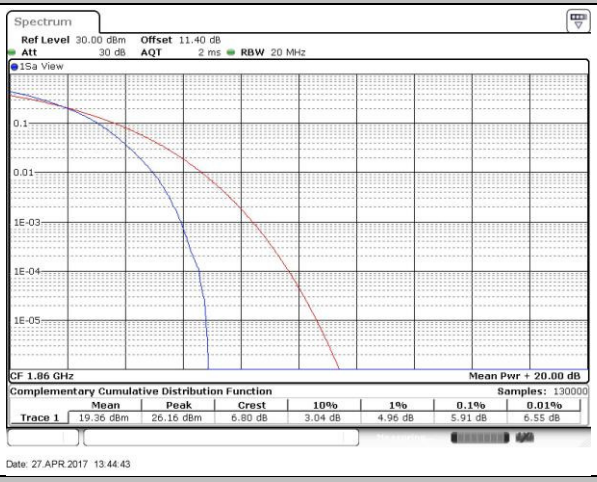
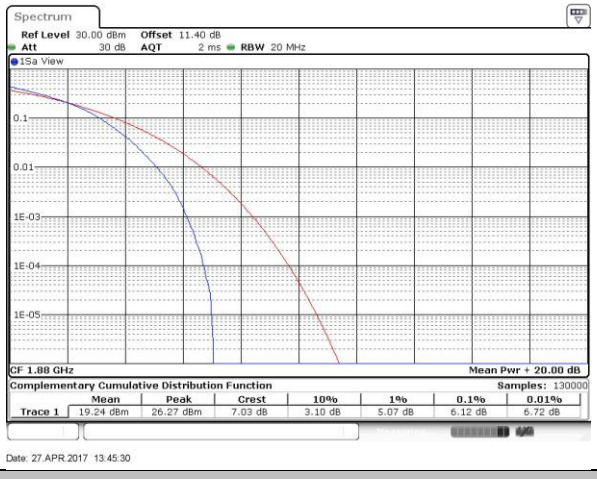
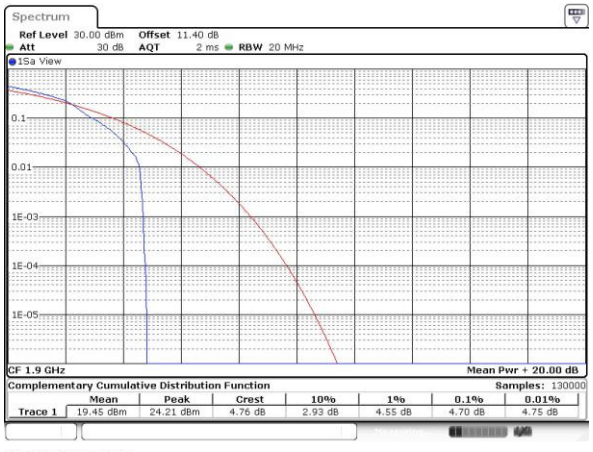
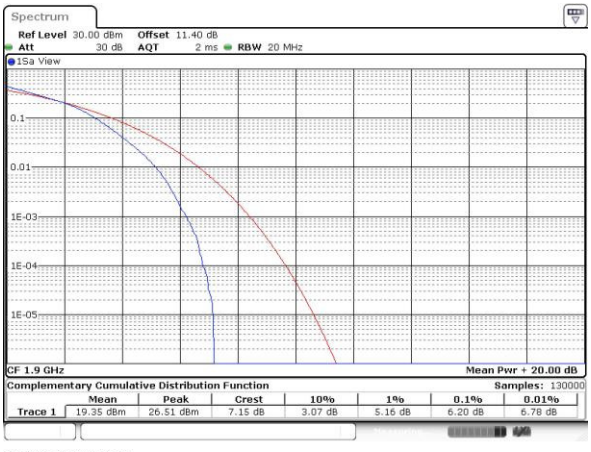
LTE Band 2

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	4.58	4.93	5.19	5.77	PASS
Middle CH	4.58	5.19	5.3	6.14	
Highest CH	4.06	5.04	4.75	5.91	
Mod.	-		64QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	5.1	5.91	PASS
Middle CH	-	-	5.25	6.12	
Highest CH	-	-	4.7	6.2	

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**
	

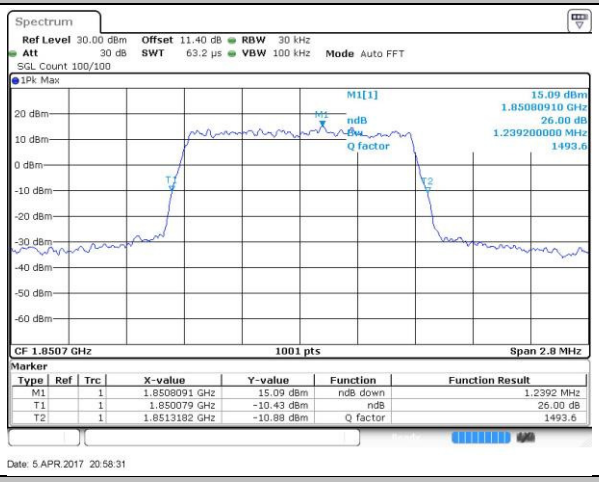
LTE Band 2 / 20MHz / 64QAM	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**
	

26dB Bandwidth

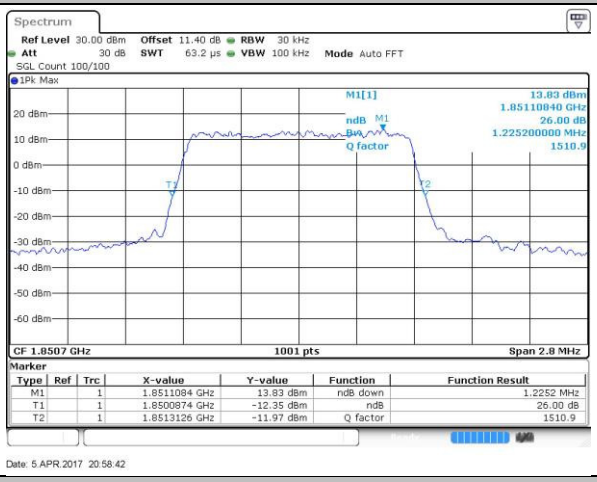
Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.24	1.23	3.04	3.04	4.87	4.85	9.77	9.77	14.39	14.42	20.06	20.10
Middle CH	1.23	1.23	3.03	3.05	4.90	4.92	9.73	9.81	14.24	14.21	20.18	20.14
Highest CH	1.24	1.23	3.02	3.05	4.92	4.86	9.71	9.77	14.60	14.60	20.30	20.22
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM
Lowest CH	-	1.22	-	3.06	-	4.94	-	9.61	-	14.39	-	20.18
Middle CH	-	1.23	-	2.97	-	4.89	-	9.87	-	14.51	-	20.26
Highest CH	-	1.23	-	3.03	-	4.79	-	9.69	-	14.18	-	20.18

LTE Band 2

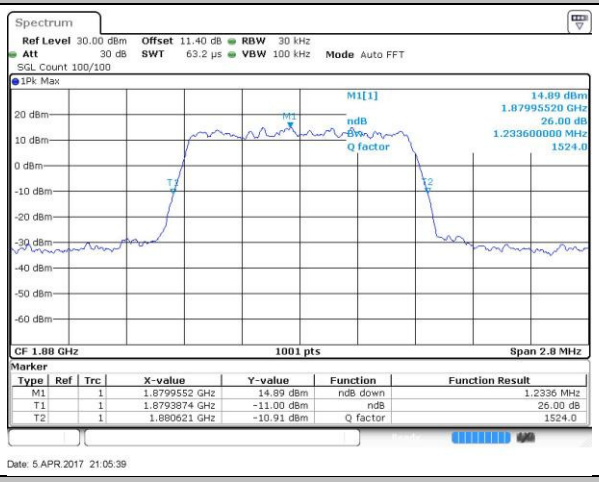
Lowest Channel / 1.4MHz / QPSK



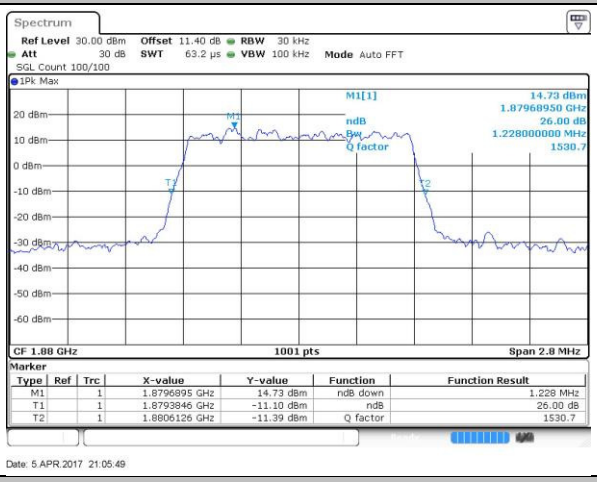
Lowest Channel / 1.4MHz / 16QAM



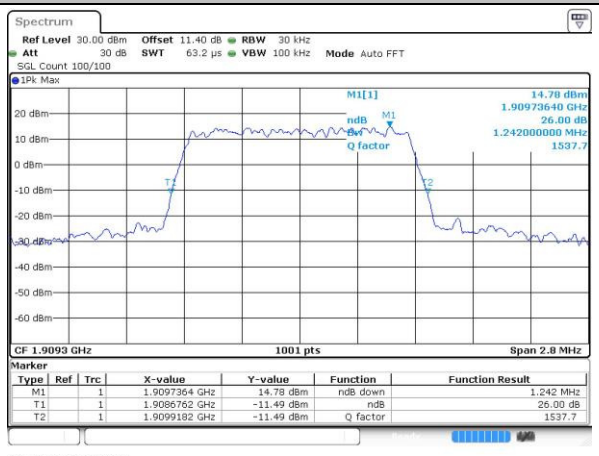
Middle Channel / 1.4MHz / QPSK



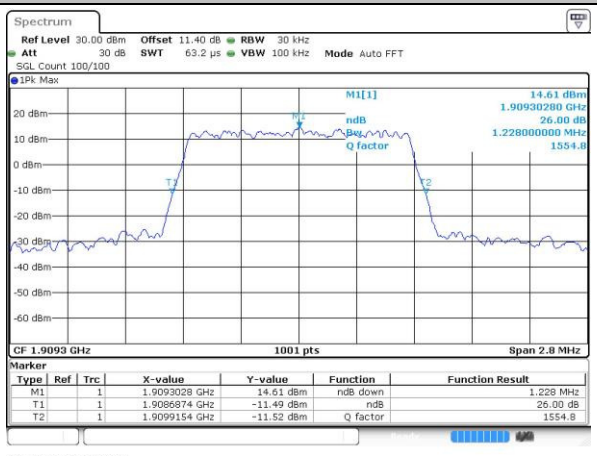
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

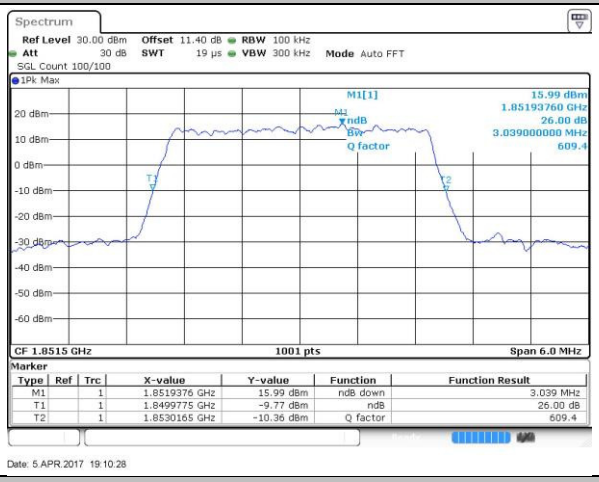


Highest Channel / 1.4MHz / 16QAM

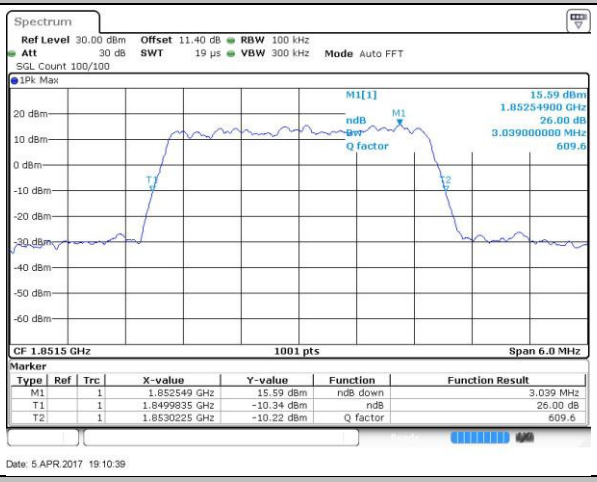


LTE Band 2

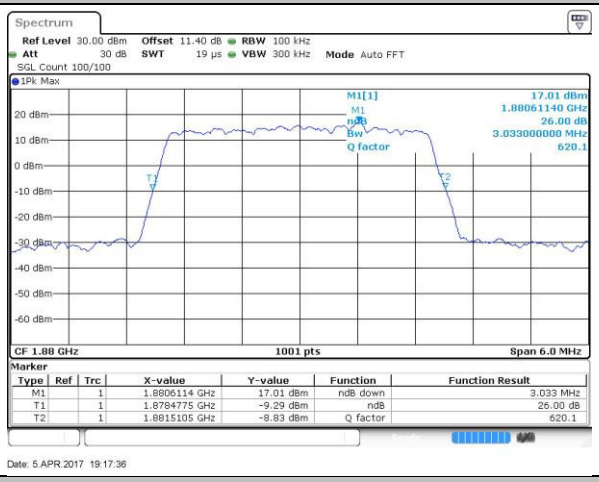
Lowest Channel / 3MHz / QPSK



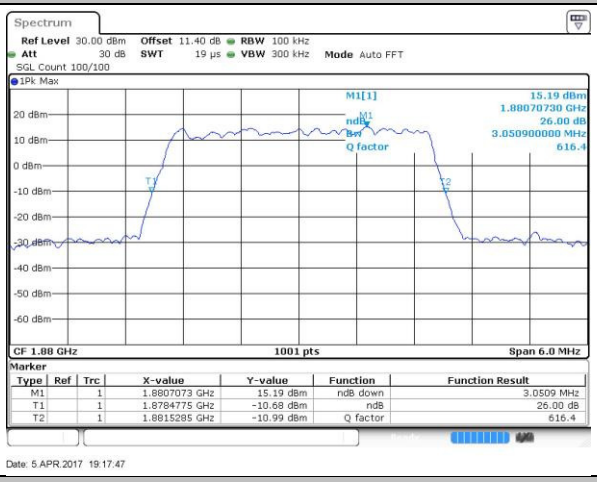
Lowest Channel / 3MHz / 16QAM



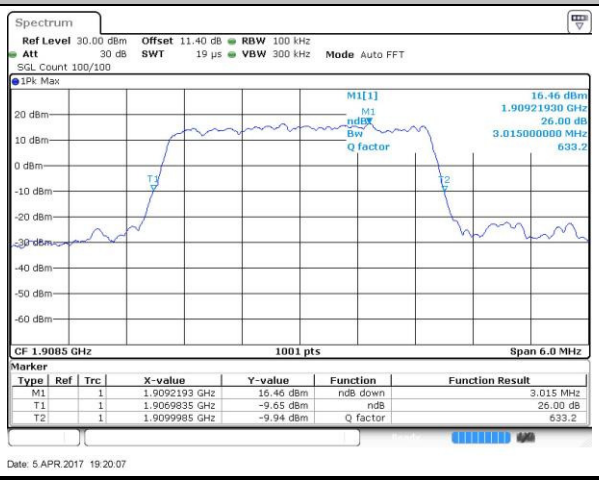
Middle Channel / 3MHz / QPSK



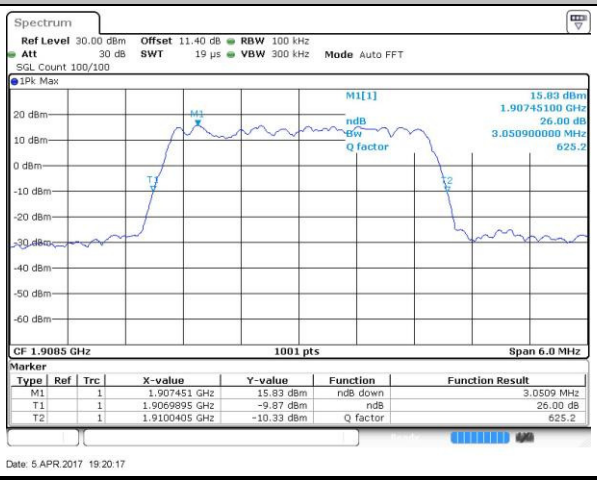
Middle Channel /3MHz / 16QAM



Highest Channel /3MHz / QPSK

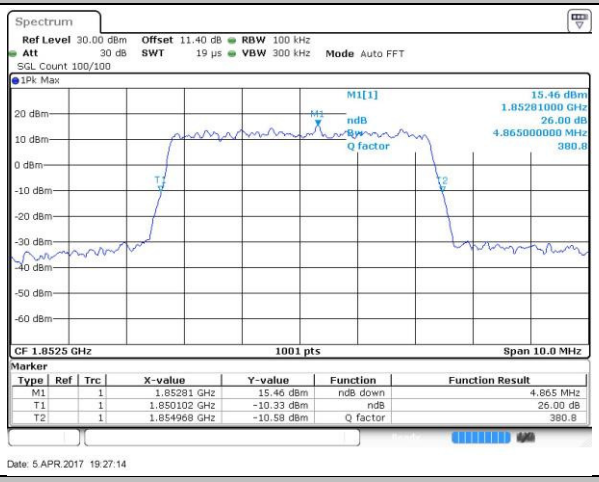


Highest Channel /3MHz / 16QAM

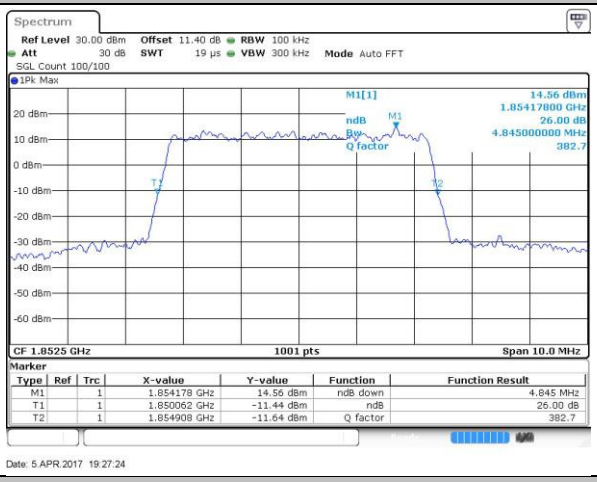


LTE Band 2

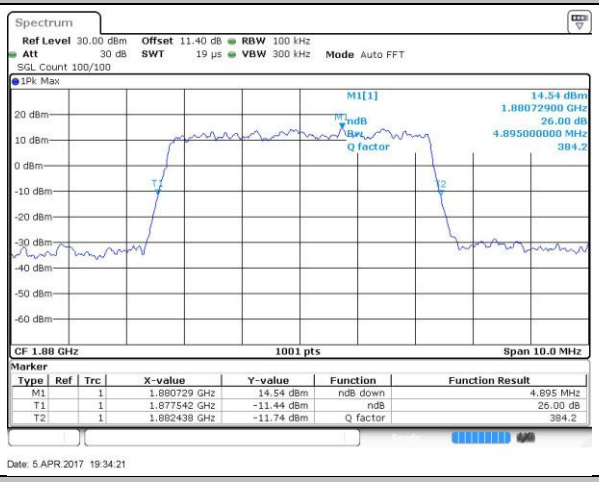
Lowest Channel / 5MHz / QPSK



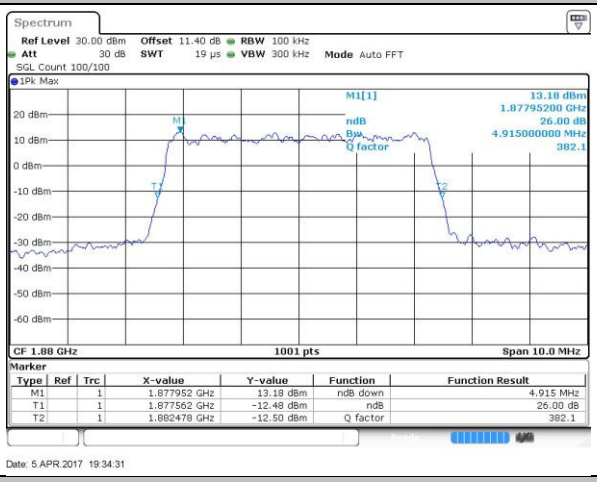
Lowest Channel / 5MHz / 16QAM



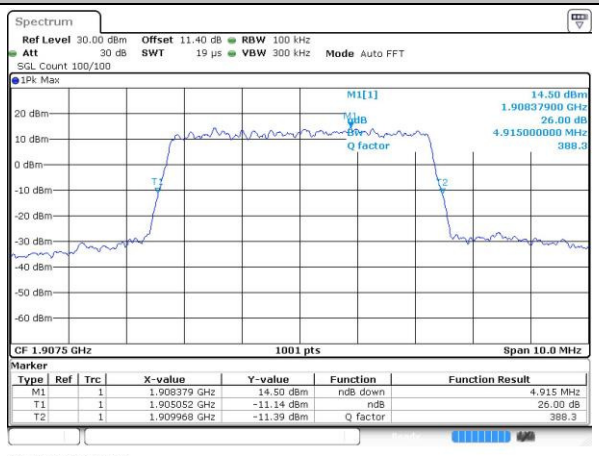
Middle Channel / 5MHz / QPSK



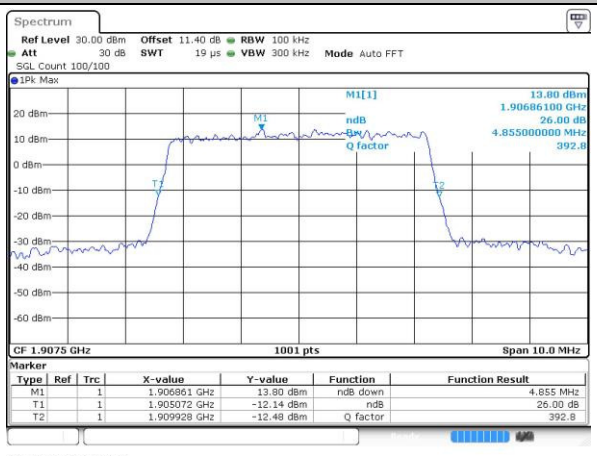
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

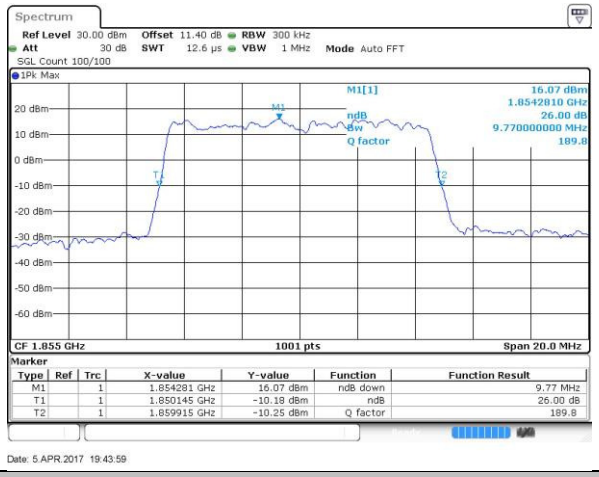


Highest Channel / 5MHz / 16QAM

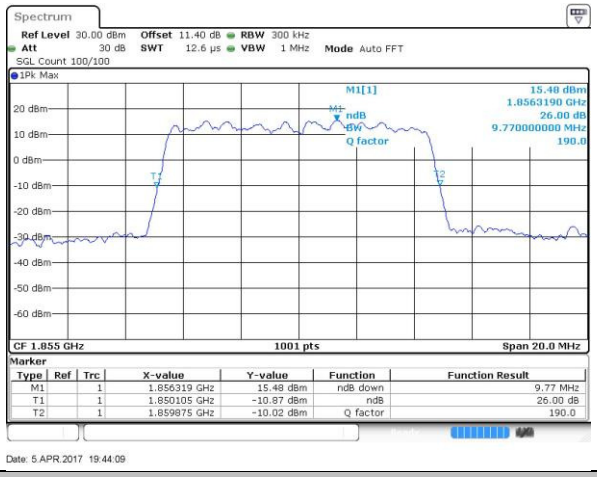


LTE Band 2

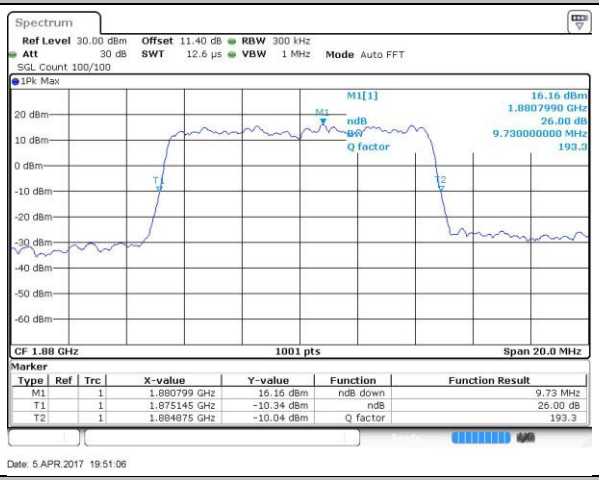
Lowest Channel / 10MHz / QPSK



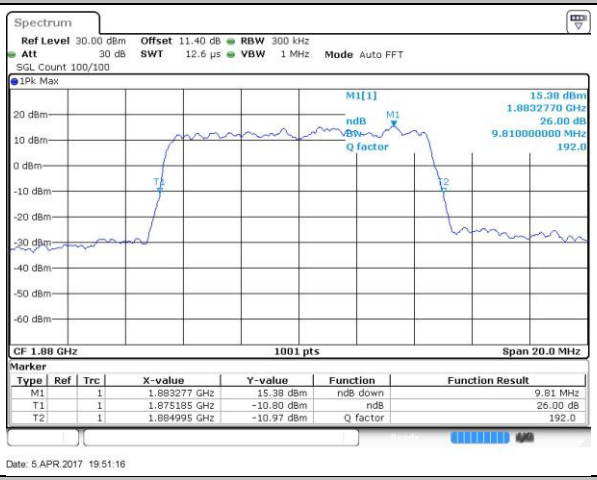
Lowest Channel / 10MHz / 16QAM



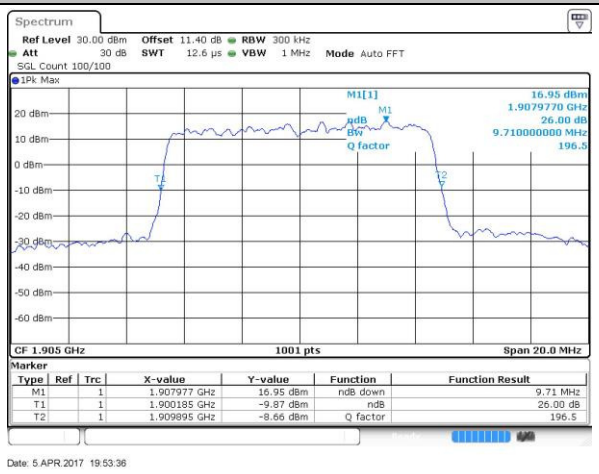
Middle Channel / 10MHz / QPSK



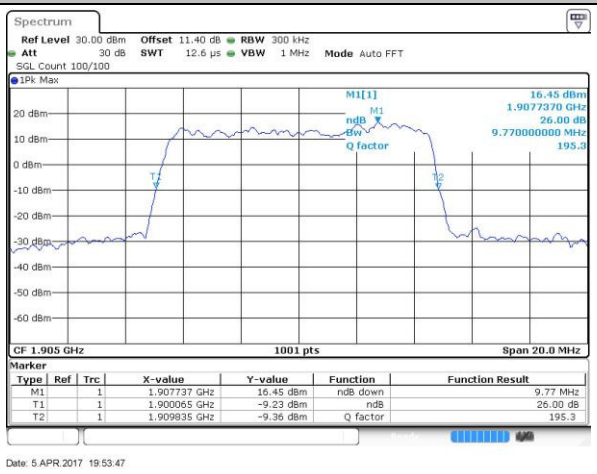
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

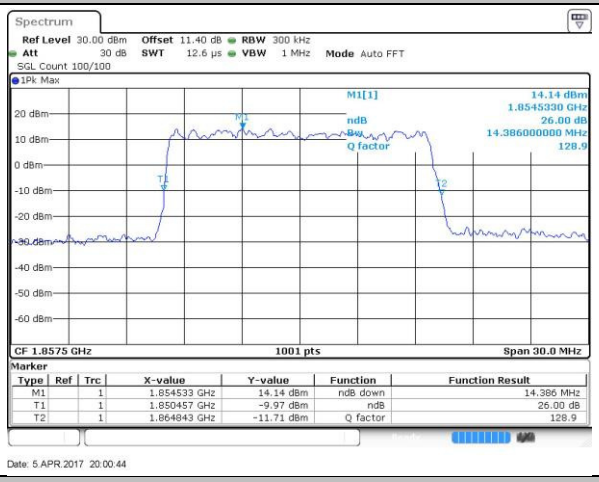


Highest Channel / 10MHz / 16QAM

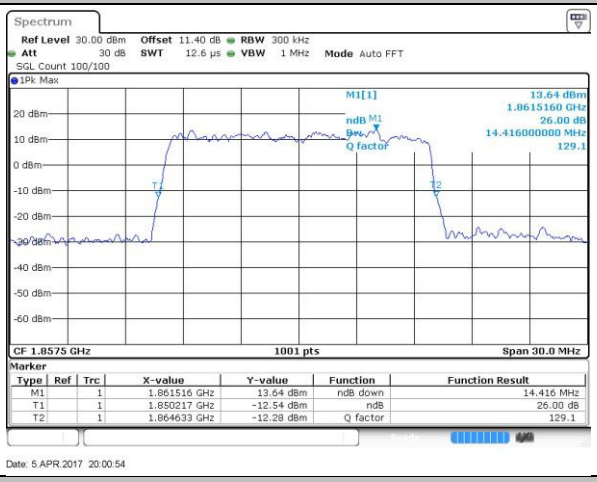


LTE Band 2

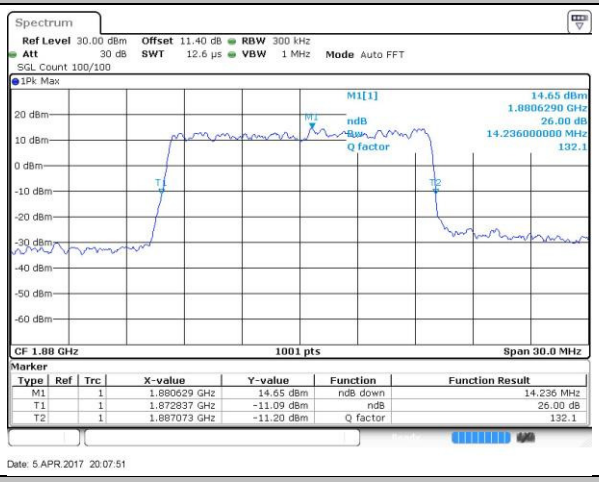
Lowest Channel / 15MHz / QPSK



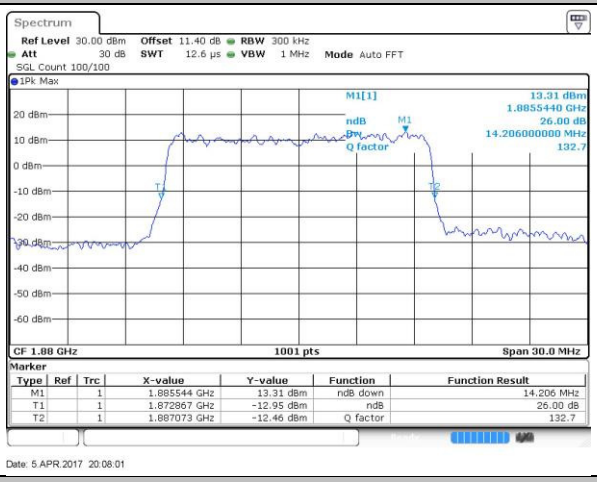
Lowest Channel / 15MHz / 16QAM



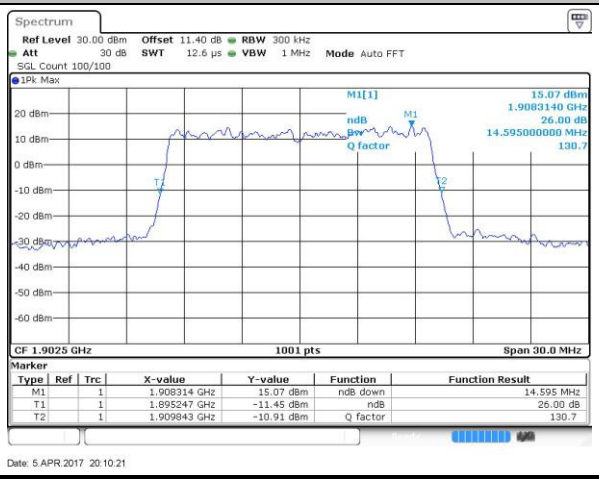
Middle Channel / 15MHz / QPSK



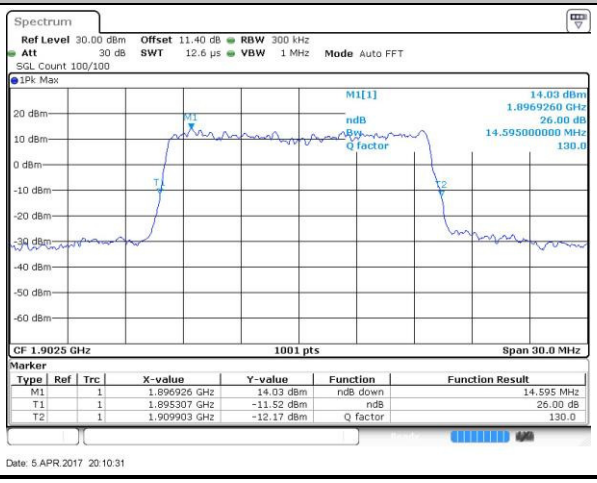
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK

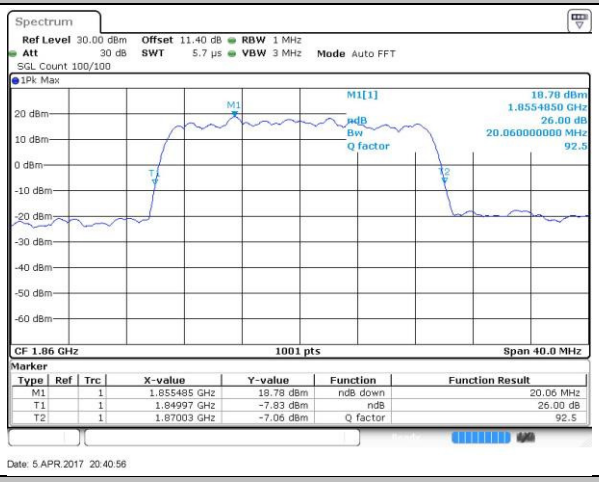


Highest Channel / 15MHz / 16QAM

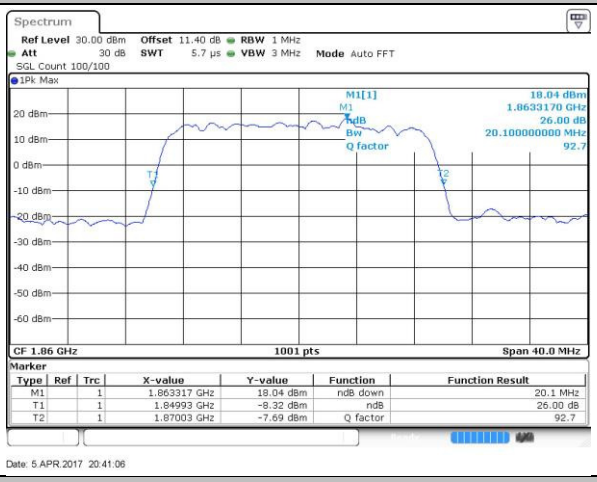


LTE Band 2

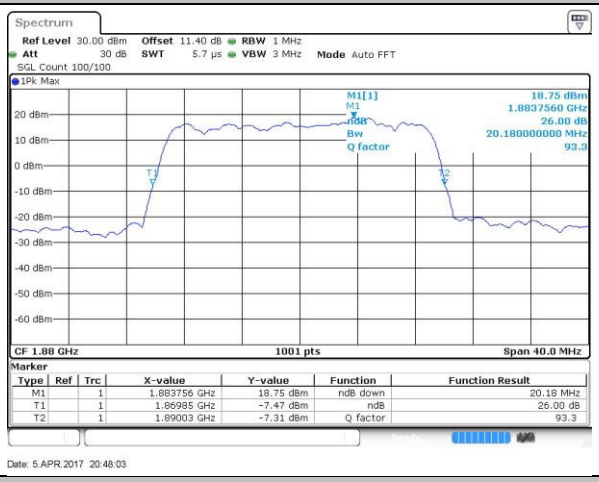
Lowest Channel / 20MHz / QPSK



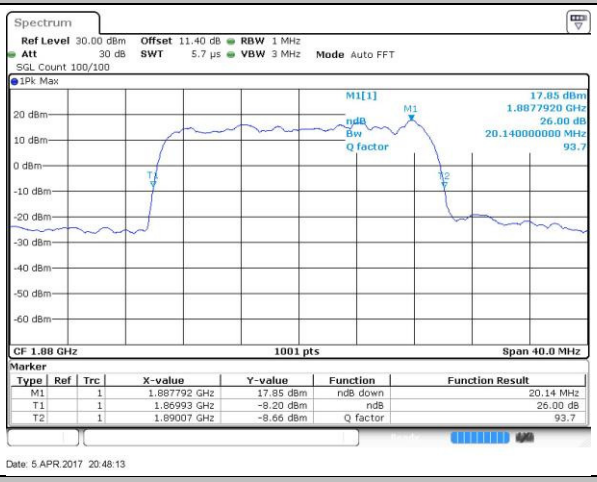
Lowest Channel / 20MHz / 16QAM



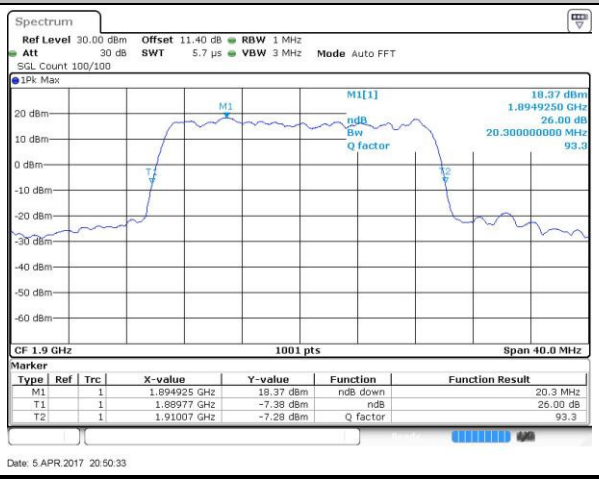
Middle Channel / 20MHz / QPSK



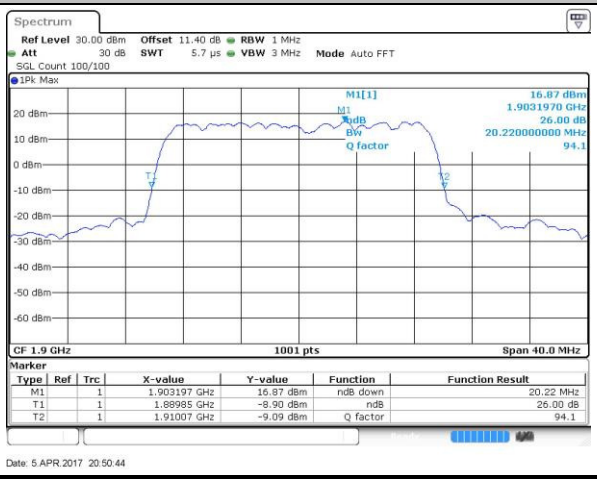
Middle Channel / 20MHz / 16QAM

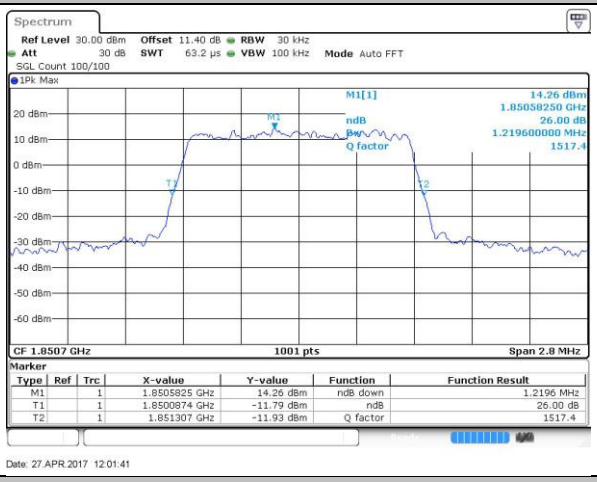
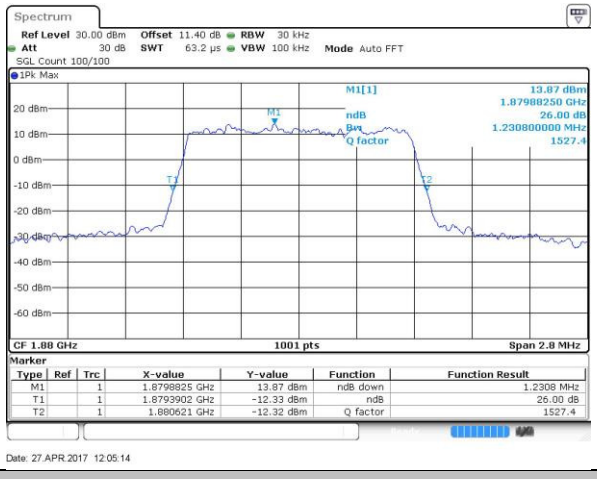
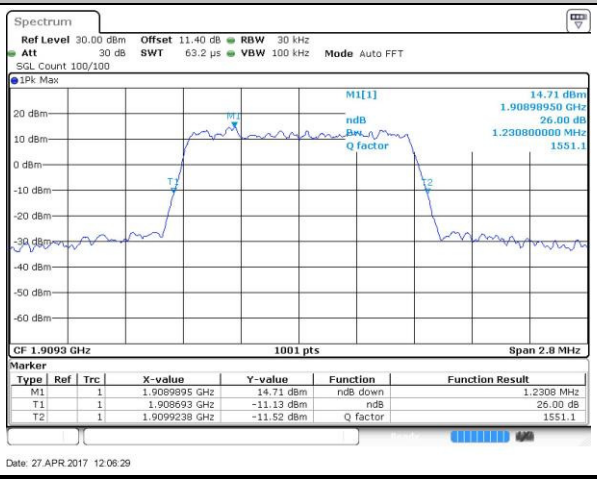


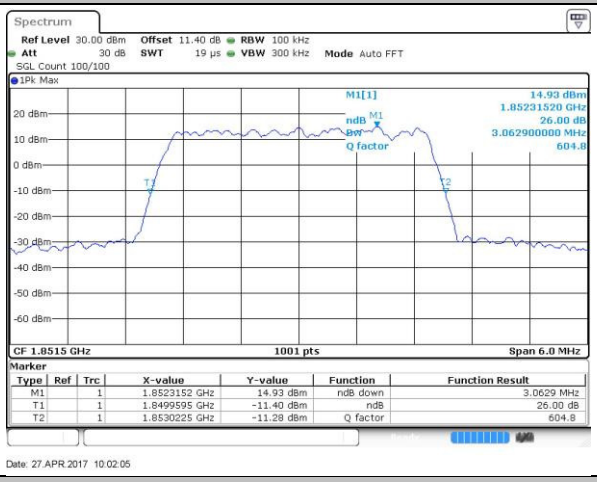
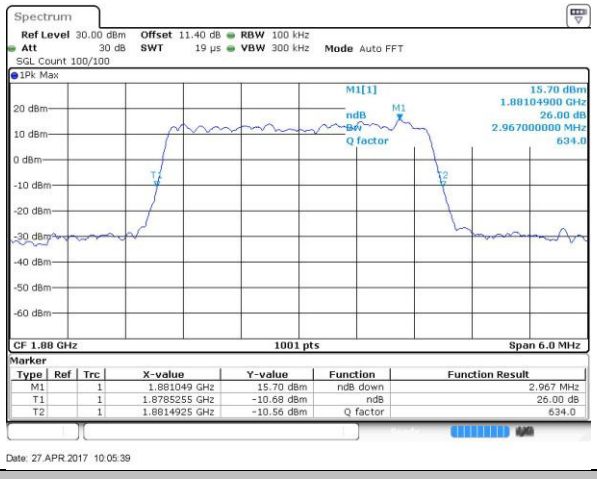
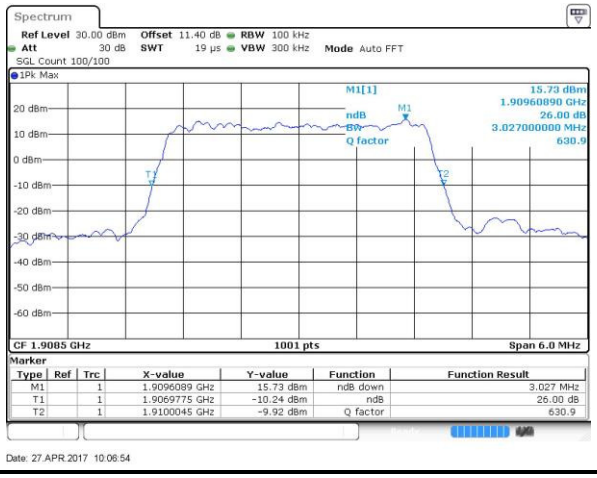
Highest Channel / 20MHz / QPSK

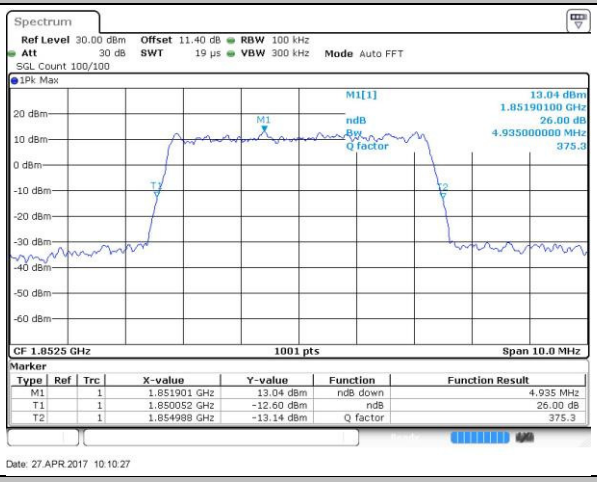
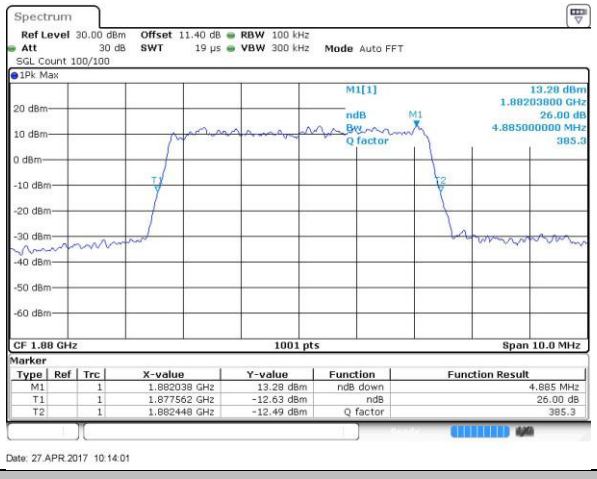
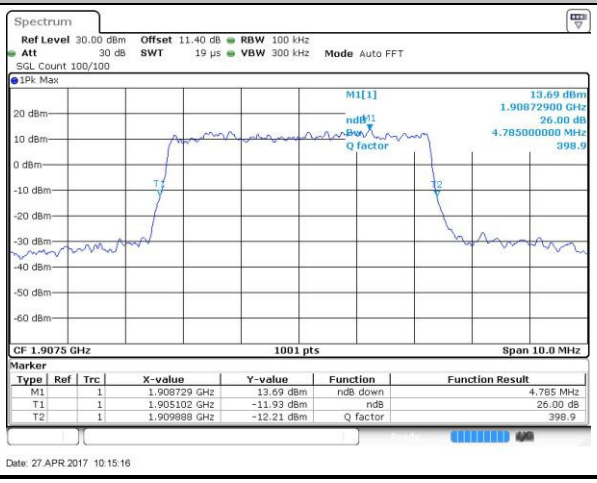


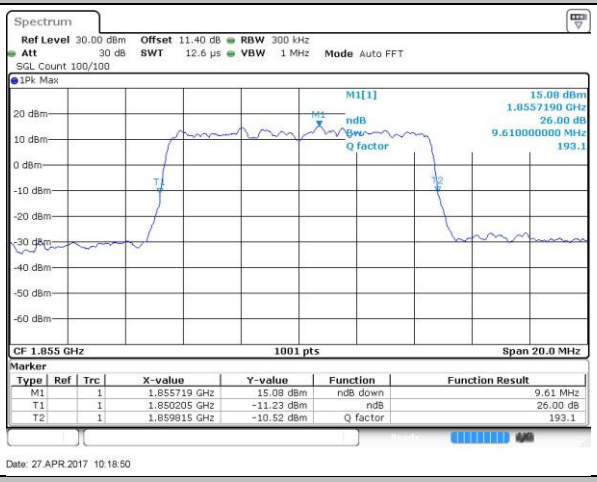
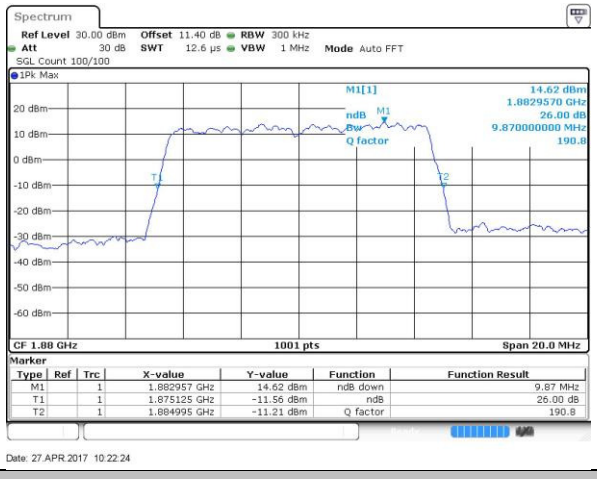
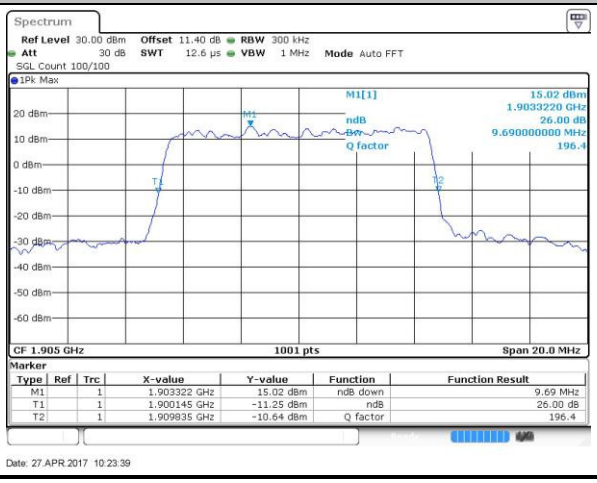
Highest Channel / 20MHz / 16QAM

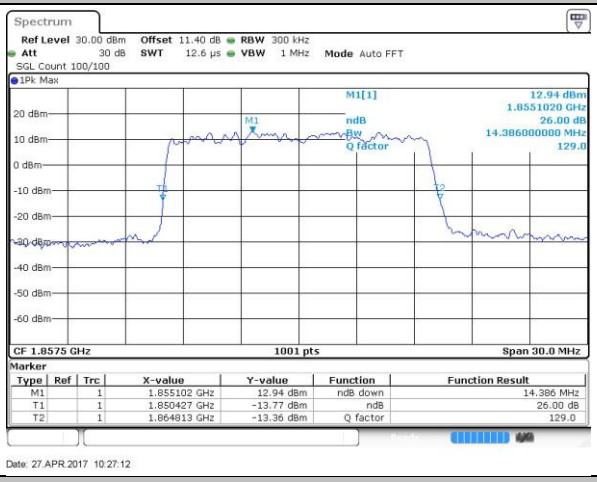
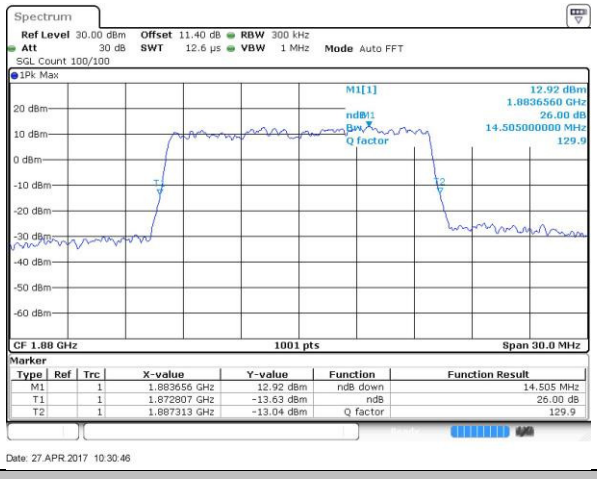
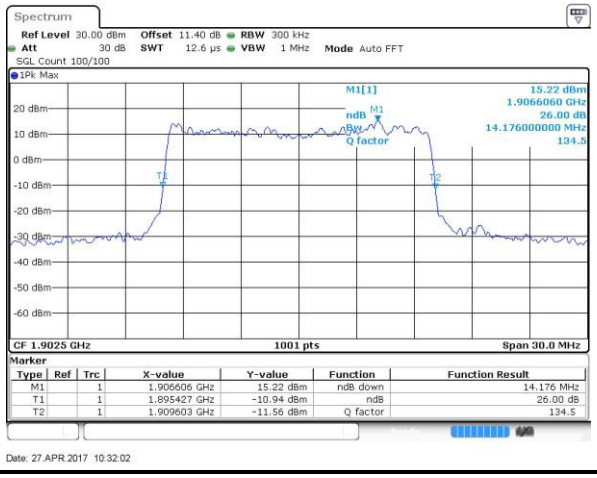


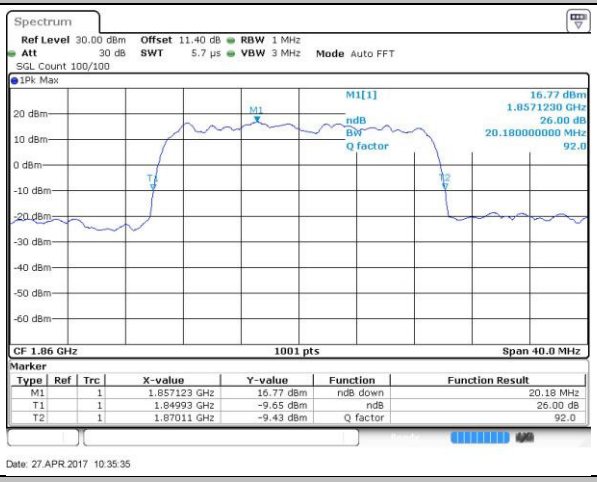
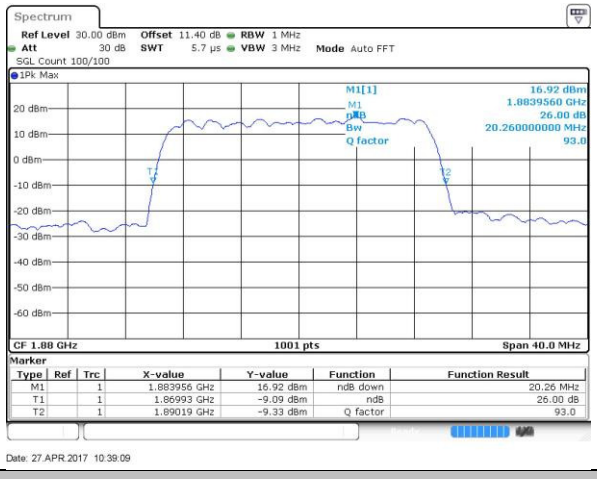
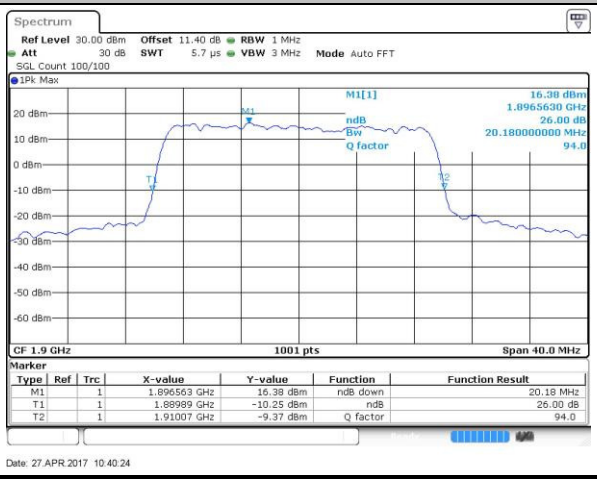
LTE Band 2	
	Lowest Channel / 1.4MHz / 64QAM
	
	Middle Channel / 1.4MHz / 64QAM
	
	Highest Channel / 1.4MHz / 64QAM
	

LTE Band 2	
	Lowest Channel / 3MHz / 64QAM
	
	Middle Channel /3MHz / 64QAM
	
	Highest Channel /3MHz / 64QAM
	

LTE Band 2	
	Lowest Channel / 5MHz / 64QAM
	
	Middle Channel / 5MHz / 64QAM
	
	Highest Channel / 5MHz / 64QAM
	

LTE Band 2	
	Lowest Channel / 10MHz / 64QAM
	
	Middle Channel / 10MHz / 64QAM
	
	Highest Channel / 10MHz / 64QAM
	

LTE Band 2	
	Lowest Channel / 15MHz / 64QAM
	
	Middle Channel / 15MHz / 64QAM
	
	Highest Channel / 15MHz / 64QAM
	

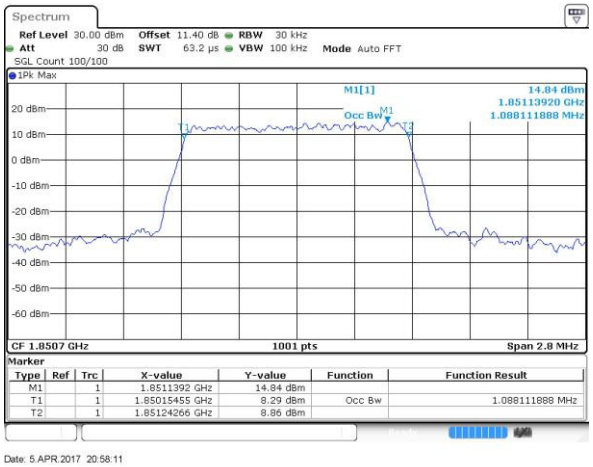
LTE Band 2	
	Lowest Channel / 20MHz / 64QAM
	
	Middle Channel / 20MHz / 64QAM
	
	Highest Channel / 20MHz / 64QAM
	

Occupied Bandwidth

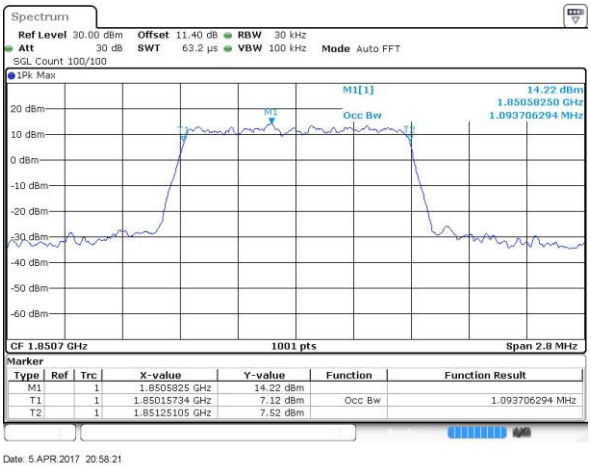
Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.71	2.71	4.49	4.49	8.97	9.05	13.46	13.43	18.42	18.3
Middle CH	1.1	1.09	2.74	2.71	4.5	4.49	9.09	9.01	13.46	13.4	18.46	18.42
Highest CH	1.09	1.1	2.7	2.73	4.48	4.49	9.05	9.03	13.49	13.46	18.62	18.34
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM	-	64QAM
Lowest CH	-	1.09	-	2.72	-	4.48	-	8.99	-	13.4	-	18.26
Middle CH	-	1.1	-	2.7	-	4.51	-	9.01	-	13.4	-	18.3
Highest CH	-	1.09	-	2.71	-	4.5	-	9.09	-	13.49	-	18.42

LTE Band 2

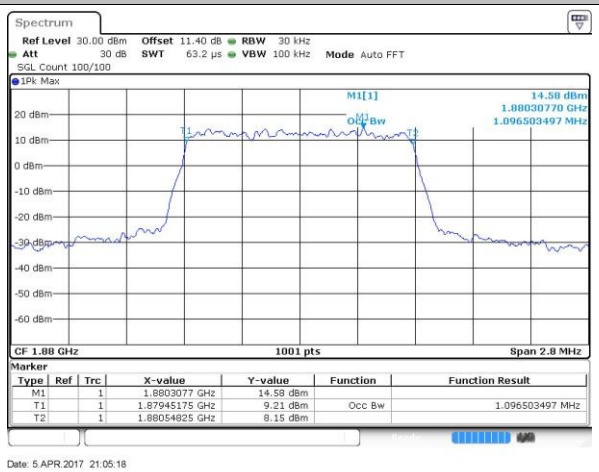
Lowest Channel / 1.4MHz / QPSK



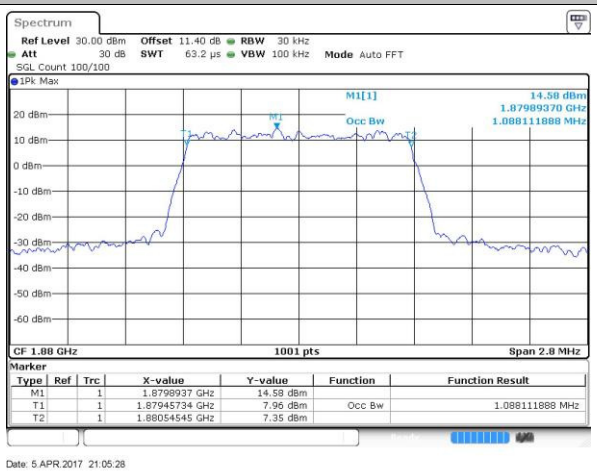
Lowest Channel / 1.4MHz / 16QAM



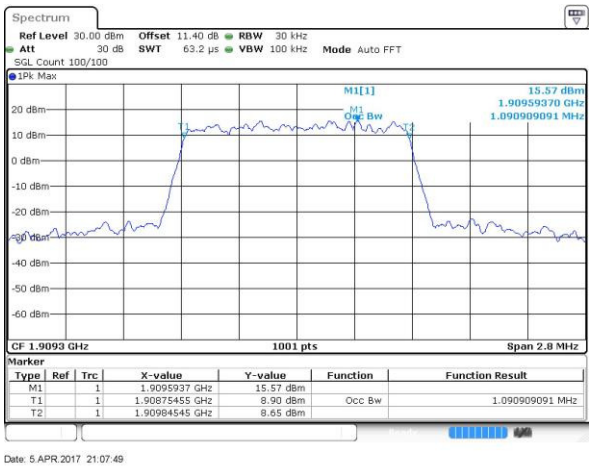
Middle Channel / 1.4MHz / QPSK



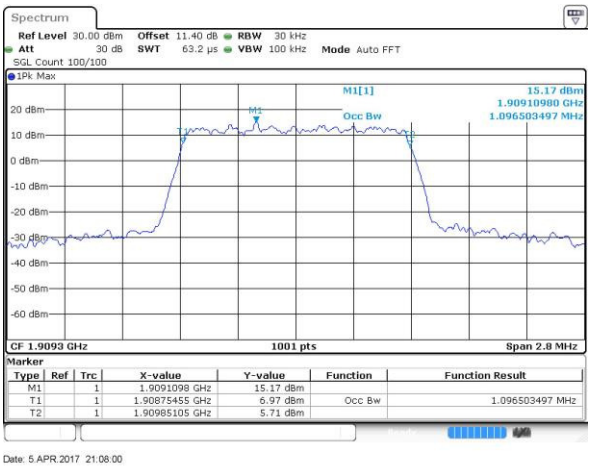
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

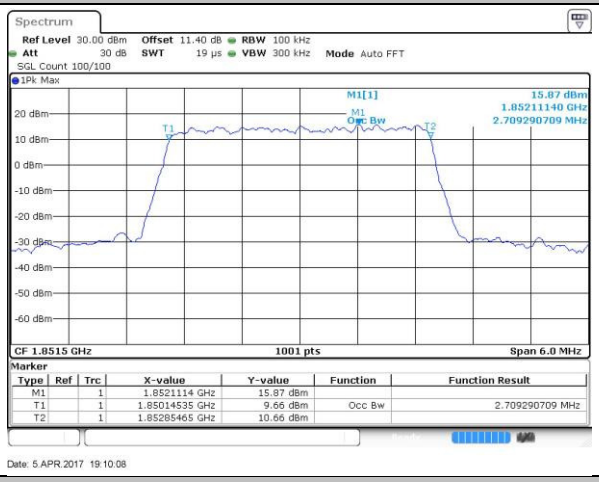


Highest Channel / 1.4MHz / 16QAM

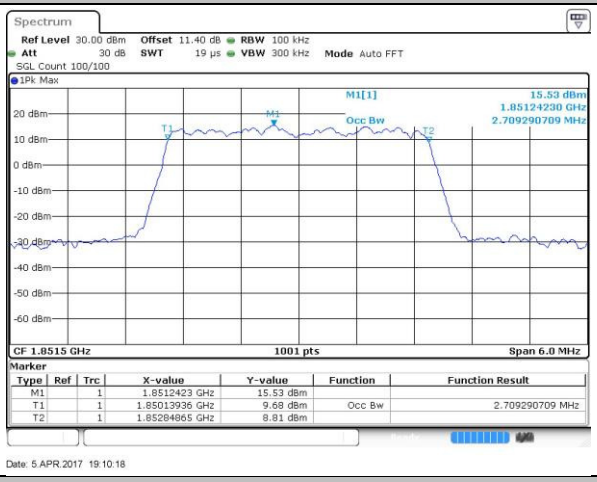


LTE Band 2

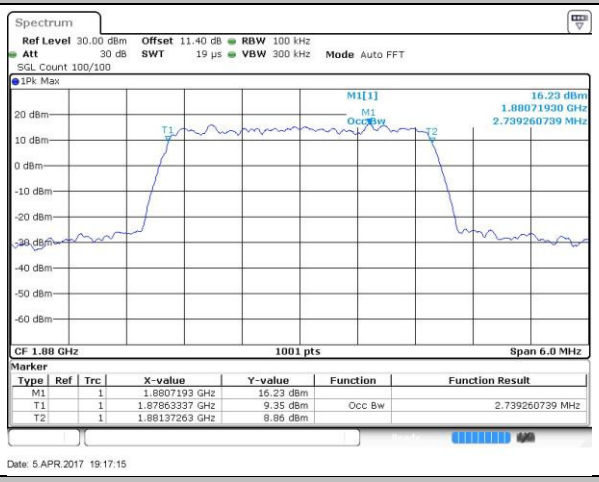
Lowest Channel / 3MHz / QPSK



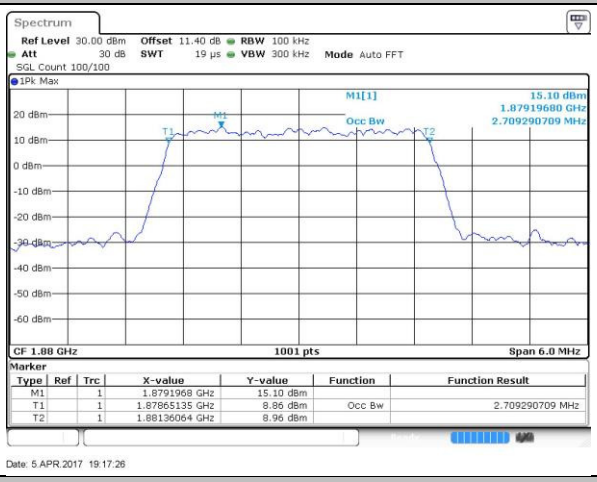
Lowest Channel / 3MHz / 16QAM



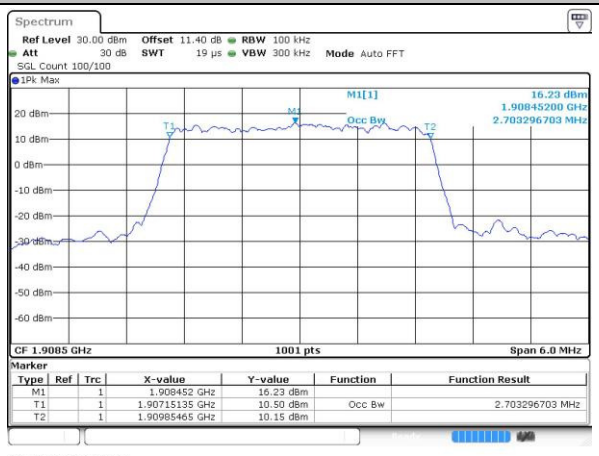
Middle Channel / 3MHz / QPSK



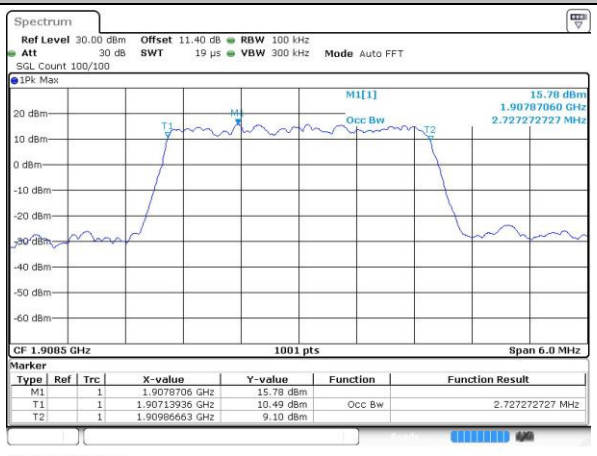
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

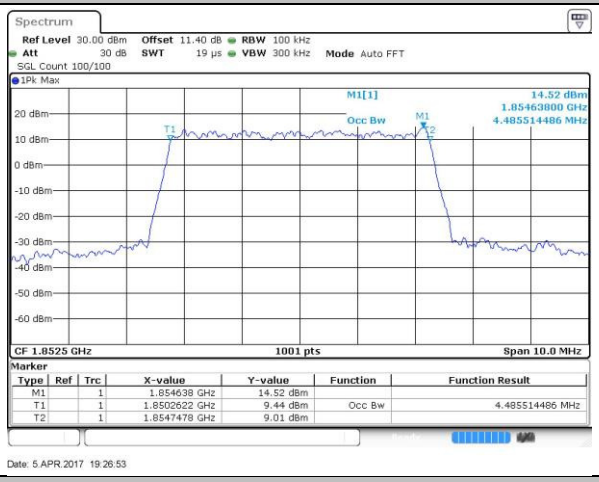


Highest Channel / 3MHz / 16QAM

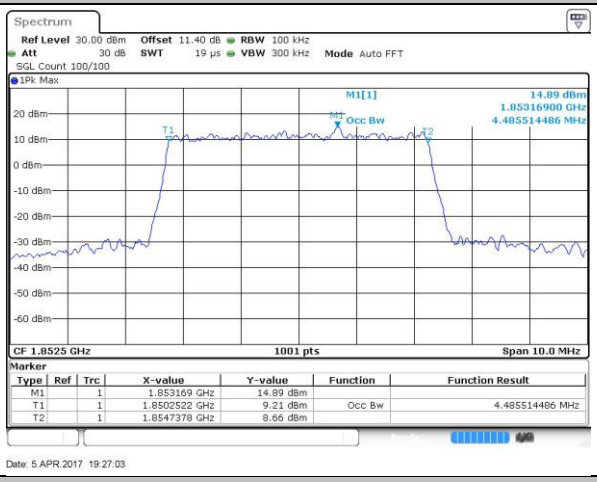


LTE Band 2

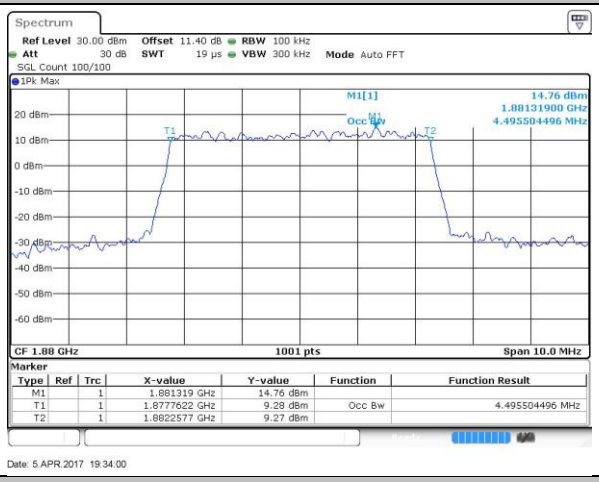
Lowest Channel / 5MHz / QPSK



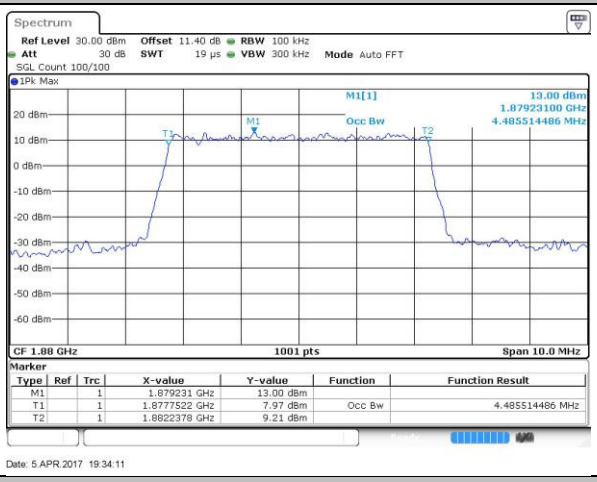
Lowest Channel / 5MHz / 16QAM



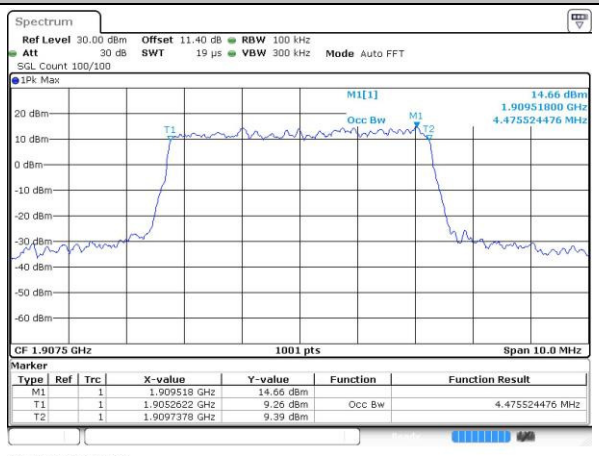
Middle Channel / 5MHz / QPSK



Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



Highest Channel / 5MHz / 16QAM