



FCC RF Test Report

APPLICANT : Xiaomi Communications Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : MI
MODEL NAME : M2007J3SG, M2007J3SY
FCC ID : 2AFZZJ3SG
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(M)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Jun. 04, 2020 and completely tested on Aug. 17, 2020. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

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

Jason Jia

Reviewed by: Jason Jia / Supervisor

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Approved by: James Huang / Manager



Sporton International (Kunshan) Inc.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG060402B	Rev. 01	Initial issue of report	Aug. 31, 2020

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
	§22.913(a)(5)	Effective Radiated Power (Band 5)	ERP < 7 Watt	PASS	-
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 7) (Band 38) (Band 41)	EIRP < 2Watt	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4)	EIRP < 1Watt	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§27.53(m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)	§27.53(m)(4)		
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5)	< 43+10log ₁₀ (P[Watts])	PASS	-
	§2.1051 §27.53(m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)	< 55+10log ₁₀ (P[Watts])		
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22H	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		



Report Section	FCC Rule	Description	Limit	Result	Remark
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5)	$< 43+10\log_{10}(P[\text{Watts}])$	PASS	Under limit 27.84 dB at 12580.000 MHz
	§2.1053 §27.53(m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)	$< 55+10\log_{10}(P[\text{Watts}])$		

Declaration of Conformity:

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

Comments and Explanations:

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



1 General Description

1.1 Applicant

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.

#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	MI
Model Name	M2007J3SG, M2007J3SY
FCC ID	2AFZZJ3SG
EUT supports Radios application	GSM/WCDMA/LTE/5G NR WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 WLAN 5GHz 802.11ax HE20/HE40/HE80 Bluetooth BR / EDR / LE GNSS / NFC
IMEI Code	Conducted: 866228050037233/866228050037241 Radiation: 866228050024033/866228050024041
HW Version	P2
SW Version	MIUI12
EUT Stage	Identical Prototype

Note: There are four types of EUT, for change note, please refer the product equality declaration exhibit submitted. According to the change, we evaluate the Sample 1 (model name : M2007J3SG, 8+256G) to test.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 7 : 2502.5 MHz ~ 2567.5 MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz 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 7 : 2622.5MHz ~ 2687.5 MHz LTE Band 38 : 2572.5MHz ~ 2617.5MHz 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 7 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 38 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 41 : 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 2 : 23.93 dBm LTE Band 4 : 23.84 dBm LTE Band 5 : 23.89 dBm LTE Band 7 : 23.99 dBm; Band 7C_CA : 22.79 dBm LTE Band 38 : 23.99 dBm; Band 38C_CA : 24.43 dBm LTE Band 41 : 23.99 dBm;
Antenna Gain	LTE Band 2 : 2.10 dBi LTE Band 4 : 1.10 dBi LTE Band 5 : -4.70 dBi LTE Band 7 : 1.7 dBi LTE Band 38 : 1.7 dBi LTE Band 41 : 1.7 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM(Downlink Only)

Note:

1. The Maximum ERP/EIRP is calculated from Max Output power and Max antenna gain with antenna 2.
2. The antenna 1/2 supports LTE Band 2/4/5/7/38/41, the antenna 6 supports LTE Band 7/38/41 and the antenna 8 supports LTE Band 38/41. The device is capable of switching based on signal strength. They can't transmit simultaneously.

1.5 Modification of EUT

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



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

LTE Band 2		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1850.7 ~ 1909.3	1M09G7D	-	0.3954	1M09W7D	-	0.3483
3	1851.5 ~ 1908.5	2M73G7D	-	0.3945	2M72W7D	-	0.3589
5	1852.5 ~ 1907.5	4M51G7D	-	0.3917	4M49W7D	-	0.3499
10	1855.0 ~ 1905.0	9M03G7D	0.0020	0.3899	9M01W7D	-	0.3412
15	1857.5 ~ 1902.5	13M5G7D	-	0.3990	13M5W7D	-	0.3614
20	1860.0 ~ 1900.0	18M4G7D	-	0.4009	18M5W7D	-	0.3581
LTE Band 2		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)	
1.4	1850.7 ~ 1909.3	1M09W7D		-		0.2673	
3	1851.5 ~ 1908.5	2M73W7D		-		0.2716	
5	1852.5 ~ 1907.5	4M51W7D		-		0.2704	
10	1855.0 ~ 1905.0	9M11W7D		-		0.2805	
15	1857.5 ~ 1902.5	13M4W7D		-		0.2679	
20	1860.0 ~ 1900.0	18M3W7D		-		0.2667	



LTE Band 4		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1710.7 ~ 1754.3	1M09G7D	-	0.2985	1M10W7D	-	0.2570
3	1711.5 ~ 1753.5	2M73G7D	-	0.3090	2M72W7D	-	0.2564
5	1712.5 ~ 1752.5	4M52G7D	-	0.3090	4M49W7D	-	0.2564
10	1715.0 ~ 1750.0	9M03G7D	0.0022	0.3105	9M07W7D	-	0.2564
15	1717.5 ~ 1747.5	13M5G7D	-	0.3105	13M5W7D	-	0.2564
20	1720.0 ~ 1745.0	18M3G7D	-	0.3119	18M5W7D	-	0.2564
LTE Band 4		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)	
1.4	1710.7 ~ 1754.3	1M09W7D		-		0.2042	
3	1711.5 ~ 1753.5	2M73W7D		-		0.2037	
5	1712.5 ~ 1752.5	4M52W7D		-		0.2037	
10	1715.0 ~ 1750.0	9M05W7D		-		0.2042	
15	1717.5 ~ 1747.5	13M5W7D		-		0.1977	
20	1720.0 ~ 1745.0	18M3W7D		-		0.2037	



LTE Band 5		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	824.7 ~ 848.3	1M09G7D	-	0.0502	1M09W7D	-	0.0448
3	825.5 ~ 847.5	2M73G7D	-	0.0505	2M73W7D	-	0.0443
5	826.5 ~ 846.5	4M52G7D	-	0.0502	4M50W7D	-	0.0446
10	829.0 ~ 844.0	9M05G7D	0.0026	0.0506	9M05W7D	-	0.0460
LTE Band 5		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum ERP(W)	
1.4	824.7 ~ 848.3	1M09W7D		-		0.0337	
3	825.5 ~ 847.5	2M73W7D		-		0.0348	
5	826.5 ~ 846.5	4M51W7D		-		0.0344	
10	829.0 ~ 844.0	9M03W7D		-		0.0361	

LTE Band 7		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2502.5 ~ 2567.5	4M50G7D	-	0.3681	4M49W7D	-	0.3155
10	2505.0 ~ 2565.0	9M07G7D	0.0040	0.3579	9M03W7D	-	0.3281
15	2507.5 ~ 2562.5	13M5G7D	-	0.3681	13M5W7D	-	0.3373
20	2510.0 ~ 2560.0	18M3G7D	-	0.3707	18M4W7D	-	0.3373
LTE Band 7		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)	
5	2502.5 ~ 2567.5	4M50W7D		-		0.2506	
10	2505.0 ~ 2565.0	9M07W7D		-		0.2541	
15	2507.5 ~ 2562.5	13M5W7D		-		0.2547	
20	2510.0 ~ 2560.0	18M3W7D		-		0.2535	



LTE Band 38		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2572.5 ~ 2617.5	4M52G7D	-	0.3673	4M51W7D	-	0.3041
10	2575.0 ~ 2615.0	9M03G7D	0.0016	0.3639	9M05W7D	-	0.3041
15	2577.5 ~ 2612.5	13M5G7D	-	0.3681	13M5W7D	-	0.3062
20	2580.0 ~ 2610.0	18M6G7D	-	0.3707	18M3W7D	-	0.3055
LTE Band 38		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)	
5	2572.5 ~ 2617.5	4M53W7D		-		0.2286	
10	2575.0 ~ 2615.0	9M01W7D		-		0.2296	
15	2577.5 ~ 2612.5	13M5W7D		-		0.2301	
20	2580.0 ~ 2610.0	18M4W7D		-		0.2301	
LTE Band 41		QPSK			16QAM		
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
5	2498.5 ~ 2687.5	4M52G7D	-	0.3673	4M51W7D	-	0.3041
10	2501.0 ~ 2685.0	9M03G7D	0.0016	0.3639	9M05W7D	-	0.3041
15	2503.5 ~ 2682.5	13M5G7D	-	0.3681	13M5W7D	-	0.3062
20	2506.0 ~ 2680.0	18M6G7D	-	0.3707	18M5W7D	-	0.3055
LTE Band 41		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)	
5	2498.5 ~ 2687.5	4M53W7D		-		0.2286	
10	2501.0 ~ 2685.0	9M01W7D		-		0.2296	
15	2503.5 ~ 2682.5	13M5W7D		-		0.2301	
20	2506.0 ~ 2680.0	18M4W7D		-		0.2301	

Note:

1. LTE Band 41 overlaps the entire frequency range of LTE Band 38. Therefore, the test results provided in this report covers Band 41 as well as Band 38.



LTE Band 7 CA	QPSK			16QAM		
BW (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
20MHz+20MHz	37M5G7D	-	0.2812	37M4W7D	-	0.2541
LTE Band 7 CA	64QAM					
BW (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)	
20MHz+20MHz	37M5W7D		0.0300		0.2495	
LTE Band 38 CA	QPSK			16QAM		
BW (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
20MHz+20MHz	37M6G7D	0.0300	0.4102	37M8W7D	-	0.3899
LTE Band 38 CA	64QAM					
BW (MHz)	Emission Designator (99%OBW)		Frequency Tolerance (ppm)		Maximum EIRP(W)	
20MHz+20MHz	37M9W7D		-		0.3936	

Note: The report shows the combination of higher conducted power in the combination.



1.7 Testing Location

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

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-KS TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24al



1.9 Applicable Standards

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

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

Remark:

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



2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

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

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

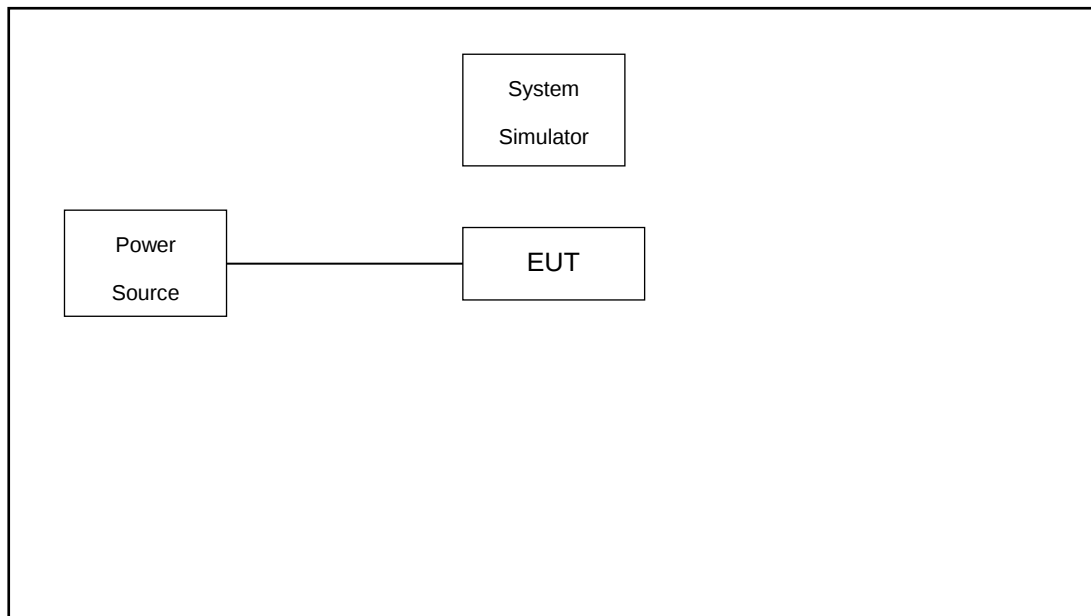


Test Items	Band	Bandwidth (MHz)						Modulation			RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Conducted Spurious Emission	2	v	v	v	v	v	v	v	v	v	v			v	v	v
	4	v	v	v	v	v	v	v	v	v	v			v	v	v
	5	v	v	v	v	-	-	v	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	41	-	-	v	v	v	v	v	v	v	v			v	v	v
Frequency Stability	2				v			v					v		v	
	4				v			v					v		v	
	5				v	-	-	v					v		v	
	7	-	-		v			v					v		v	
	41	-	-		v			v					v		v	
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	v	v			v	v	v
	4	v	v	v	v	v	v	v	v	v	v			v	v	v
	5	v	v	v	v	-	-	v	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v	v			v	v	v
	41	-	-	v	v	v	v	v	v	v	v			v	v	v
Radiated Spurious Emission	2	Worst Case												v	v	v
	4	Worst Case												v	v	v
	5	Worst Case												v	v	v
	7	Worst Case												v	v	v
	41	Worst Case												v	v	v
Note	1. The mark “v “ means that this configuration is chosen for testing 2. The mark “-“ means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. LTE Band 41 overlaps the entire frequency range of LTE Band 38. Therefore, the test results provided in this report covers Band 41 as well as Band 38.															



Test Items	Band	Bandwidth (MHz)										Modulation			RB #			Test Channel		
		20+20	20+15	15+20	20+10	10+20	20+5	5+20	15+15	15+10	10+15	QPSK	16QAM	64QAM	1	Half	Full	L	M	H
Max. Output Power	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v	v	v	v	v	v
	38C_CA	v	-	-	-	-	-	-	v	-	-	v	v	v	v	v	v	v	v	v
26dB and 99% Bandwidth	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v			v	v	v	v
	38C_CA	v	-	-	-	-	-	-	v	-	-	v	v	v			v	v	v	v
Conducted Band Edge	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v		v	v		v
	38C_CA	v	-	-	-	-	-	-	v	-	-	v	v	v	v		v	v		v
Conducted Spurious Emission	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v			v	v	v
	38C_CA	v	-	-	-	-	-	-	v	-	-	v	v	v	v			v	v	v
E.I.R.P.	7C_CA	v	v	v	v	v	-	-	v	v	-	v	v	v	v			v	v	v
	38C_CA	v	-	-	-	-	-	-	v	-	-	v	v	v	v			v	v	v
Radiated Spurious Emission	7C_CA	Worst Case																v	v	v
	38C_CA	Worst Case																v	v	v
Note	1. The mark “v” means that this configuration is chosen for testing 2. The mark “-” means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.																			

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8m
2.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 4.80 dB.

Example :

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

= 4.80 (dB)



2.5 Frequency List of Low/Middle/High Channels

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

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

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

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



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

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



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



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

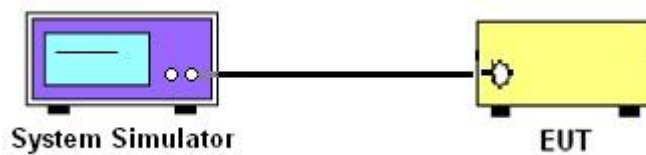
3 Conducted Test Items

3.1 Measuring Instruments

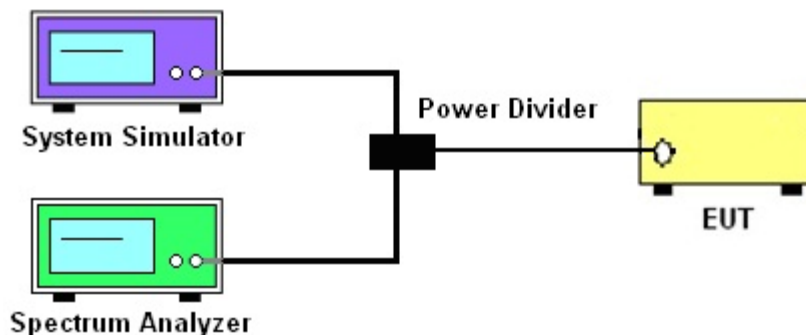
See list of measuring instruments of this test report.

3.2 Test Setup

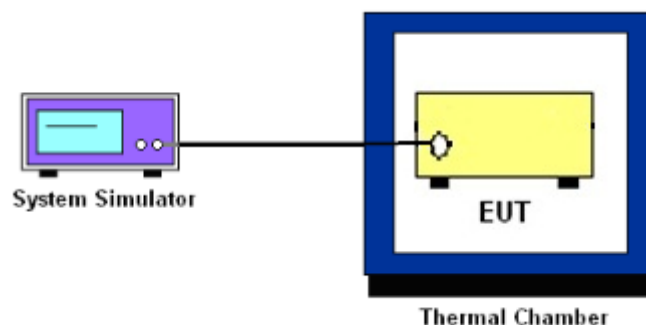
3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

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

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

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

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

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

According to KDB 412172 D01 Power Approach,

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

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.4.2 Test Procedures

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

3.5 Peak-to-Average Ratio

3.5.1 Description of the PAR Measurement

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

3.5.2 Test Procedures

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

3.6 Occupied Bandwidth

3.6.1 Description of Occupied Bandwidth Measurement

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

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

3.6.2 Test Procedures

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

3.7 Conducted Band Edge

3.7.1 Description of Conducted Band Edge Measurement

22.917(a)

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

24.238 (a)

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

27.53 (h)

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

27.53(m)(4)

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

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used or a narrower RBW was used and the measured power was integrated over the full required measurement bandwidth of 1 MHz.
6. Set spectrum analyzer with RMS detector.
7. Offset has included the duty factor for LTE Band 38/41. Duty factor $= 10 \log (1/x)$, where x is the measured duty cycle
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. Checked that all the results comply with the emission limit line.

Example:

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

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

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

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

3.8 Conducted Spurious Emission

3.8.1 Description of Conducted Spurious Emission Measurement

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

For Band 7,38,41:

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

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

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Offset has included the duty factor for LTE Band 38/41. Duty factor = $10 \log (1/x)$, where x is the measured duty cycle
9. Taking the record of maximum spurious emission.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
11. The limit line is derived from $43 + 10 \log (P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10 \log (P)]$ (dB)
 $= [30 + 10 \log (P)]$ (dBm) - $[43 + 10 \log (P)]$ (dB)
 $= -13$ dBm.
12. For Band 7, 38, 41
The limit line is derived from $55 + 10 \log (P)$ dB below the transmitter power P(Watts)
 $= P(W) - [55 + 10 \log (P)]$ (dB)
 $= [30 + 10 \log (P)]$ (dBm) - $[55 + 10 \log (P)]$ (dB)
 $= -25$ dBm.

3.9 Frequency Stability

3.9.1 Description of Frequency Stability Measurement

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

3.9.2 Test Procedures for Temperature Variation

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

3.9.3 Test Procedures for Voltage Variation

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

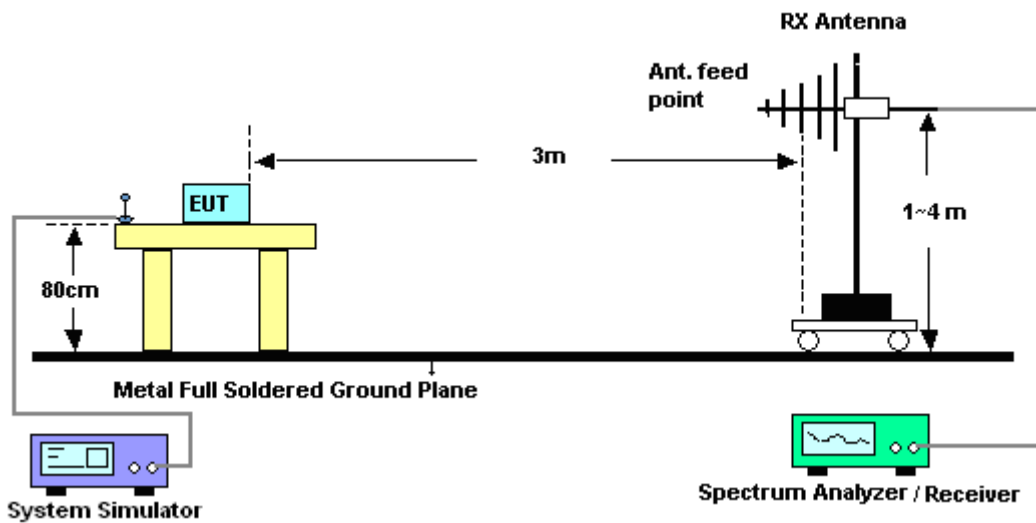
4 Radiated Test Items

4.1 Measuring Instruments

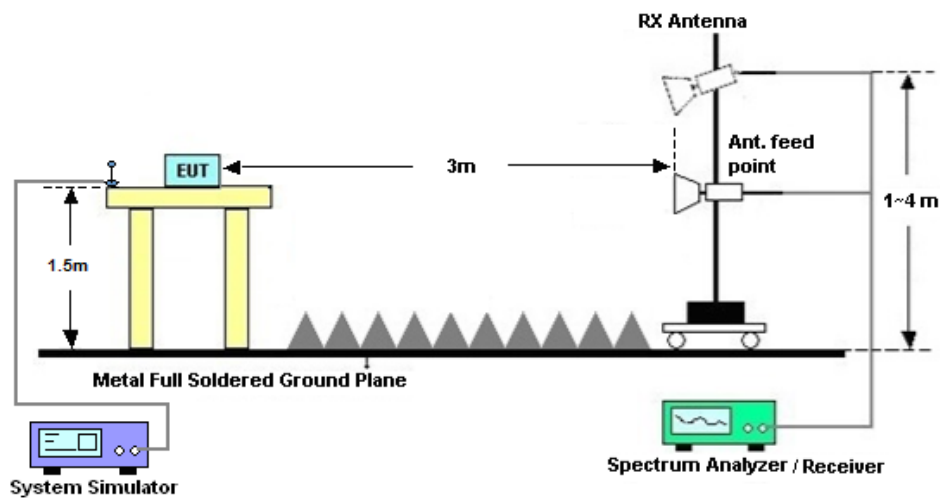
See list of measuring instruments of this test report.

4.2 Test Setup

4.2.1 For radiated test from 30MHz to 1GHz



4.2.2 For radiated test above 1GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

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

For Band 7, 38, 41

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

4.4.2 Test Procedures

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

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$

13. For Band 7, 38, 41:

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



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Nov. 02, 2019	Aug. 07, 2020~ Aug. 17, 2020	Nov. 01, 2020	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-960502	-40~+150°C	Oct. 28, 2019	Aug. 07, 2020~ Aug. 17, 2020	Oct. 27, 2020	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44G,MAX 30dB	Apr. 15, 2020	Jul. 28, 2020	Apr. 14, 2021	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz~1GHz	Jan. 02, 2020	Jul. 28, 2020	Jan. 01, 2021	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 20, 2020	Jul. 28, 2020	Apr. 19, 2021	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2019	Jul. 28, 2020	Nov. 09, 2020	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz~1GHz	Jan. 02, 2020	Jul. 28, 2020	Jan. 01, 2021	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 08, 2020	Jul. 28, 2020	Jan. 07, 2021	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz~18Ghz	Jan. 02, 2020	Jul. 28, 2020	Jan. 01, 2021	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 15, 2019	Jul. 28, 2020	Oct. 14, 2020	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jul. 28, 2020	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jul. 28, 2020	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jul. 28, 2020	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

6 Uncertainty of Evaluation

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.3dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.8dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 2:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	23.89	23.93	23.88
20	QPSK	1	49	23.75	23.85	23.64
20	QPSK	1	99	23.63	23.74	23.75
20	QPSK	50	0	22.95	23.04	22.84
20	QPSK	50	24	22.90	22.85	22.79
20	QPSK	50	50	22.82	22.81	22.81
20	QPSK	100	0	22.85	22.89	22.84
20	16QAM	1	0	23.02	23.44	22.94
20	16QAM	1	49	23.13	23.42	22.99
20	16QAM	1	99	22.88	23.34	23.25
20	16QAM	50	0	22.11	21.95	21.89
20	16QAM	50	24	21.90	21.81	21.87
20	16QAM	50	50	21.89	21.85	21.82
20	16QAM	100	0	22.03	21.82	21.78
20	64QAM	1	0	22.09	21.95	22.09
20	64QAM	1	49	22.15	22.16	21.59
20	64QAM	1	99	22.14	22.08	21.93
20	64QAM	50	0	20.94	20.88	20.97
20	64QAM	50	24	21.03	20.89	20.85
20	64QAM	50	50	20.92	20.88	20.90
20	64QAM	100	0	21.02	20.82	20.76



Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	23.84	23.76	23.65
15	QPSK	1	37	23.86	23.91	23.70
15	QPSK	1	74	23.90	23.84	23.61
15	QPSK	36	0	23.06	22.87	22.61
15	QPSK	36	20	23.10	22.89	22.82
15	QPSK	36	39	22.89	22.84	22.85
15	QPSK	75	0	23.10	22.89	22.74
15	16QAM	1	0	23.47	23.18	23.18
15	16QAM	1	37	23.06	23.11	22.60
15	16QAM	1	74	23.48	23.37	23.22
15	16QAM	36	0	22.04	21.89	21.71
15	16QAM	36	20	22.07	21.84	21.78
15	16QAM	36	39	21.92	21.87	21.80
15	16QAM	75	0	22.08	21.93	21.78
15	64QAM	1	0	22.18	21.80	22.11
15	64QAM	1	37	21.80	21.80	21.95
15	64QAM	1	74	22.13	22.09	22.03
15	64QAM	36	0	21.17	20.86	20.83
15	64QAM	36	20	21.06	20.92	20.82
15	64QAM	36	39	20.92	20.88	20.77
15	64QAM	75	0	21.12	20.88	20.82



Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	23.66	23.73	23.51
10	QPSK	1	25	23.79	23.81	23.70
10	QPSK	1	49	23.67	23.70	23.57
10	QPSK	25	0	22.91	22.85	22.69
10	QPSK	25	12	22.98	22.91	22.65
10	QPSK	25	25	22.92	22.84	22.83
10	QPSK	50	0	22.84	22.83	22.72
10	16QAM	1	0	23.11	23.23	23.12
10	16QAM	1	25	23.07	23.12	22.64
10	16QAM	1	49	23.18	23.12	23.10
10	16QAM	25	0	22.04	21.78	21.70
10	16QAM	25	12	21.79	21.91	21.71
10	16QAM	25	25	21.83	21.92	21.74
10	16QAM	50	0	21.85	21.85	21.65
10	64QAM	1	0	21.97	21.95	21.65
10	64QAM	1	25	22.27	22.38	22.27
10	64QAM	1	49	21.98	22.07	21.63
10	64QAM	25	0	20.94	20.90	20.70
10	64QAM	25	12	20.90	20.95	20.75
10	64QAM	25	25	20.95	20.83	20.78
10	64QAM	50	0	20.88	20.93	20.73



Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	23.67	23.63	23.57
5	QPSK	1	12	23.75	23.78	23.81
5	QPSK	1	24	23.83	23.76	23.62
5	QPSK	12	0	22.95	22.84	22.59
5	QPSK	12	7	22.90	22.87	22.75
5	QPSK	12	13	22.95	22.80	22.73
5	QPSK	25	0	22.89	22.81	22.58
5	16QAM	1	0	23.06	22.89	22.78
5	16QAM	1	12	22.84	23.34	22.92
5	16QAM	1	24	23.28	22.97	22.90
5	16QAM	12	0	21.94	21.84	21.63
5	16QAM	12	7	21.98	21.91	21.76
5	16QAM	12	13	21.86	21.82	21.73
5	16QAM	25	0	21.97	21.85	21.61
5	64QAM	1	0	21.97	22.13	22.01
5	64QAM	1	12	22.06	21.98	21.97
5	64QAM	1	24	22.22	22.16	21.91
5	64QAM	12	0	21.00	20.90	20.68
5	64QAM	12	7	21.01	20.91	20.85
5	64QAM	12	13	21.03	20.88	20.83
5	64QAM	25	0	20.93	20.90	20.67



Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	23.79	23.72	23.68
3	QPSK	1	8	23.79	23.86	23.61
3	QPSK	1	14	23.71	23.72	23.55
3	QPSK	8	0	22.84	22.85	22.64
3	QPSK	8	4	22.90	22.91	22.71
3	QPSK	8	7	22.83	22.85	22.71
3	QPSK	15	0	22.92	22.87	22.74
3	16QAM	1	0	23.35	22.88	22.95
3	16QAM	1	8	23.45	23.08	22.96
3	16QAM	1	14	23.29	23.32	23.04
3	16QAM	8	0	21.93	21.95	21.76
3	16QAM	8	4	22.04	21.96	21.90
3	16QAM	8	7	21.92	21.79	21.73
3	16QAM	15	0	21.82	21.82	21.66
3	64QAM	1	0	21.72	22.09	21.99
3	64QAM	1	8	21.96	22.24	21.96
3	64QAM	1	14	21.92	21.80	21.96
3	64QAM	8	0	20.89	20.80	20.83
3	64QAM	8	4	21.03	21.02	20.74
3	64QAM	8	7	20.96	20.88	20.72
3	64QAM	15	0	20.95	20.92	20.62



Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	23.67	23.67	23.47
1.4	QPSK	1	3	23.83	23.87	23.52
1.4	QPSK	1	5	23.72	23.67	23.49
1.4	QPSK	3	0	23.71	23.73	23.58
1.4	QPSK	3	1	23.82	23.70	23.57
1.4	QPSK	3	3	23.76	23.66	23.56
1.4	QPSK	6	0	22.85	22.78	22.61
1.4	16QAM	1	0	22.71	23.11	22.79
1.4	16QAM	1	3	23.07	23.32	22.61
1.4	16QAM	1	5	23.02	22.89	22.81
1.4	16QAM	3	0	22.87	22.75	22.65
1.4	16QAM	3	1	22.80	22.90	22.71
1.4	16QAM	3	3	22.68	22.61	22.69
1.4	16QAM	6	0	21.87	21.85	21.80
1.4	64QAM	1	0	22.10	21.98	21.80
1.4	64QAM	1	3	22.12	22.17	21.72
1.4	64QAM	1	5	22.09	22.05	21.73
1.4	64QAM	3	0	21.99	21.83	21.84
1.4	64QAM	3	1	22.00	21.99	21.86
1.4	64QAM	3	3	22.06	21.97	21.75
1.4	64QAM	6	0	20.77	20.74	20.55


LTE Band 4:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	23.80	23.84	23.70
20	QPSK	1	49	23.68	23.59	23.57
20	QPSK	1	99	23.56	23.58	23.38
20	QPSK	50	0	22.78	22.81	22.67
20	QPSK	50	24	22.89	22.71	22.56
20	QPSK	50	50	22.66	22.69	22.58
20	QPSK	100	0	22.74	22.75	22.62
20	16QAM	1	0	22.91	22.95	22.90
20	16QAM	1	49	22.67	22.99	22.87
20	16QAM	1	99	22.89	22.78	22.87
20	16QAM	50	0	21.87	21.86	21.76
20	16QAM	50	24	21.78	21.81	21.57
20	16QAM	50	50	21.66	21.70	21.57
20	16QAM	100	0	21.69	21.71	21.64
20	64QAM	1	0	21.06	21.99	21.76
20	64QAM	1	49	21.73	21.59	21.62
20	64QAM	1	99	21.71	21.72	21.60
20	64QAM	50	0	20.71	20.82	20.73
20	64QAM	50	24	20.87	20.75	20.64
20	64QAM	50	50	20.76	20.71	20.59
20	64QAM	100	0	20.76	20.73	20.69



Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	23.80	23.82	23.73
15	QPSK	1	37	23.70	23.60	23.50
15	QPSK	1	74	23.67	23.54	23.47
15	QPSK	36	0	22.87	22.85	22.75
15	QPSK	36	20	22.82	22.74	22.58
15	QPSK	36	39	22.81	22.58	22.54
15	QPSK	75	0	22.88	22.79	22.71
15	16QAM	1	0	22.99	22.78	22.89
15	16QAM	1	37	22.95	22.99	22.90
15	16QAM	1	74	22.80	22.84	22.99
15	16QAM	36	0	21.88	21.92	21.72
15	16QAM	36	20	21.88	21.78	21.72
15	16QAM	36	39	21.80	21.72	21.66
15	16QAM	75	0	21.83	21.74	21.71
15	64QAM	1	0	21.12	21.83	21.81
15	64QAM	1	37	21.86	21.79	21.86
15	64QAM	1	74	21.62	21.54	21.65
15	64QAM	36	0	20.51	20.91	20.80
15	64QAM	36	20	20.83	20.76	20.79
15	64QAM	36	39	20.78	20.61	20.67
15	64QAM	75	0	20.90	20.81	20.62



Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	23.68	23.57	23.52
10	QPSK	1	25	23.79	23.52	23.67
10	QPSK	1	49	23.57	23.82	23.72
10	QPSK	25	0	22.81	22.80	22.69
10	QPSK	25	12	22.90	22.92	22.70
10	QPSK	25	25	22.87	22.71	22.70
10	QPSK	50	0	22.82	22.86	22.80
10	16QAM	1	0	22.73	22.99	22.89
10	16QAM	1	25	22.90	22.94	22.86
10	16QAM	1	49	22.82	22.99	22.77
10	16QAM	25	0	21.90	21.83	21.75
10	16QAM	25	12	21.93	21.99	21.89
10	16QAM	25	25	21.79	21.75	21.70
10	16QAM	50	0	21.86	21.93	21.82
10	64QAM	1	0	21.04	22.00	21.69
10	64QAM	1	25	21.54	21.99	21.98
10	64QAM	1	49	21.94	21.96	21.87
10	64QAM	25	0	20.33	20.83	20.84
10	64QAM	25	12	20.65	20.82	20.63
10	64QAM	25	25	21.00	20.85	20.75
10	64QAM	50	0	20.65	20.88	20.80



Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	23.54	23.58	23.65
5	QPSK	1	12	23.71	23.60	23.57
5	QPSK	1	24	23.80	23.66	23.53
5	QPSK	12	0	22.84	22.83	22.70
5	QPSK	12	7	22.86	22.83	22.73
5	QPSK	12	13	22.86	22.71	22.68
5	QPSK	25	0	22.83	22.73	22.69
5	16QAM	1	0	22.83	22.89	22.99
5	16QAM	1	12	22.98	22.99	22.49
5	16QAM	1	24	22.99	22.60	22.92
5	16QAM	12	0	21.86	21.68	21.70
5	16QAM	12	7	21.83	21.83	21.76
5	16QAM	12	13	21.91	21.70	21.65
5	16QAM	25	0	21.93	21.74	21.76
5	64QAM	1	0	21.08	21.99	21.89
5	64QAM	1	12	21.33	21.97	21.98
5	64QAM	1	24	21.36	21.87	21.75
5	64QAM	12	0	20.21	20.80	20.74
5	64QAM	12	7	20.21	20.94	20.78
5	64QAM	12	13	20.25	20.74	20.77
5	64QAM	25	0	20.12	20.82	20.75



Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	23.52	23.62	23.53
3	QPSK	1	8	23.80	23.59	23.59
3	QPSK	1	14	23.70	23.55	23.55
3	QPSK	8	0	22.78	22.77	22.65
3	QPSK	8	4	22.84	22.72	22.63
3	QPSK	8	7	22.83	22.74	22.68
3	QPSK	15	0	22.79	22.79	22.67
3	16QAM	1	0	22.86	22.86	22.94
3	16QAM	1	8	22.98	22.88	22.99
3	16QAM	1	14	22.95	22.77	22.98
3	16QAM	8	0	21.89	21.78	21.72
3	16QAM	8	4	21.90	21.80	21.75
3	16QAM	8	7	21.89	21.85	21.63
3	16QAM	15	0	21.81	21.72	21.67
3	64QAM	1	0	21.29	21.53	21.65
3	64QAM	1	8	21.38	21.99	21.71
3	64QAM	1	14	21.07	21.70	21.72
3	64QAM	8	0	20.12	20.78	20.60
3	64QAM	8	4	20.16	20.82	20.76
3	64QAM	8	7	20.29	20.96	20.81
3	64QAM	15	0	20.18	20.89	20.71



Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	23.44	23.55	23.51
1.4	QPSK	1	3	23.48	23.53	23.50
1.4	QPSK	1	5	23.45	23.55	23.51
1.4	QPSK	3	0	23.57	23.57	23.52
1.4	QPSK	3	1	23.65	23.65	23.50
1.4	QPSK	3	3	23.62	23.53	23.55
1.4	QPSK	6	0	22.75	22.72	22.57
1.4	16QAM	1	0	22.98	22.86	22.52
1.4	16QAM	1	3	22.99	23.00	22.81
1.4	16QAM	1	5	22.68	23.00	22.68
1.4	16QAM	3	0	22.76	22.71	22.69
1.4	16QAM	3	1	22.77	22.70	22.64
1.4	16QAM	3	3	22.62	22.67	22.49
1.4	16QAM	6	0	21.99	21.79	21.64
1.4	64QAM	1	0	21.06	21.88	21.92
1.4	64QAM	1	3	21.31	22.00	21.72
1.4	64QAM	1	5	21.07	21.88	21.57
1.4	64QAM	3	0	21.11	21.81	21.39
1.4	64QAM	3	1	21.19	21.87	21.49
1.4	64QAM	3	3	21.08	21.93	21.79
1.4	64QAM	6	0	20.00	20.68	20.50


LTE Band 5:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	23.81	23.89	23.77
10	QPSK	1	25	23.71	23.85	23.53
10	QPSK	1	49	23.65	23.69	23.61
10	QPSK	25	0	22.90	22.92	22.89
10	QPSK	25	12	22.89	22.90	22.79
10	QPSK	25	25	22.78	22.85	22.88
10	QPSK	50	0	22.90	22.93	22.77
10	16QAM	1	0	23.48	22.80	23.03
10	16QAM	1	25	22.88	23.21	22.85
10	16QAM	1	49	23.31	22.73	22.81
10	16QAM	25	0	21.81	21.93	21.76
10	16QAM	25	12	21.83	21.96	21.90
10	16QAM	25	25	21.96	22.05	21.86
10	16QAM	50	0	21.90	21.89	21.74
10	64QAM	1	0	22.12	22.21	21.77
10	64QAM	1	25	22.42	21.85	21.38
10	64QAM	1	49	21.68	21.64	21.23
10	64QAM	25	0	20.98	20.96	20.29
10	64QAM	25	12	20.90	21.05	20.37
10	64QAM	25	25	20.96	20.98	20.53
10	64QAM	50	0	21.03	20.91	20.51



Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	23.68	23.72	23.86
5	QPSK	1	12	23.72	23.84	23.81
5	QPSK	1	24	23.76	23.83	23.83
5	QPSK	12	0	22.85	23.00	22.84
5	QPSK	12	7	22.96	22.91	22.84
5	QPSK	12	13	22.92	22.87	22.81
5	QPSK	25	0	22.82	22.88	22.77
5	16QAM	1	0	23.03	23.21	23.30
5	16QAM	1	12	23.23	23.33	22.94
5	16QAM	1	24	23.34	22.91	22.80
5	16QAM	12	0	21.88	22.02	21.89
5	16QAM	12	7	21.90	21.96	21.91
5	16QAM	12	13	21.98	21.94	21.76
5	16QAM	25	0	21.91	21.90	21.91
5	64QAM	1	0	22.21	22.21	21.94
5	64QAM	1	12	21.97	22.19	21.89
5	64QAM	1	24	21.88	21.90	21.82
5	64QAM	12	0	20.86	21.12	20.84
5	64QAM	12	7	21.00	20.95	20.96
5	64QAM	12	13	20.95	20.81	20.78
5	64QAM	25	0	20.97	20.93	20.92



Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	23.82	23.84	23.64
3	QPSK	1	8	23.87	23.88	23.80
3	QPSK	1	14	23.71	23.71	23.77
3	QPSK	8	0	22.91	22.92	22.74
3	QPSK	8	4	22.97	22.88	22.76
3	QPSK	8	7	22.86	22.88	22.84
3	QPSK	15	0	22.95	22.85	22.75
3	16QAM	1	0	23.15	22.94	22.72
3	16QAM	1	8	23.25	22.96	22.83
3	16QAM	1	14	23.31	22.88	23.04
3	16QAM	8	0	21.88	21.96	21.84
3	16QAM	8	4	22.06	21.92	21.84
3	16QAM	8	7	21.92	21.94	21.86
3	16QAM	15	0	21.91	21.89	21.81
3	64QAM	1	0	22.24	22.26	22.15
3	64QAM	1	8	22.13	22.17	22.19
3	64QAM	1	14	22.05	22.06	21.92
3	64QAM	8	0	20.83	21.16	20.87
3	64QAM	8	4	20.88	20.93	20.79
3	64QAM	8	7	20.79	20.88	20.82
3	64QAM	15	0	21.02	20.81	20.89



Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	23.68	23.79	23.70
1.4	QPSK	1	3	23.76	23.72	23.65
1.4	QPSK	1	5	23.63	23.71	23.62
1.4	QPSK	3	0	23.69	23.76	23.66
1.4	QPSK	3	1	23.86	23.79	23.78
1.4	QPSK	3	3	23.70	23.67	23.64
1.4	QPSK	6	0	22.76	22.88	22.72
1.4	16QAM	1	0	23.35	23.24	23.26
1.4	16QAM	1	3	22.74	23.36	23.26
1.4	16QAM	1	5	22.96	23.26	23.15
1.4	16QAM	3	0	22.88	22.78	22.77
1.4	16QAM	3	1	22.92	22.92	22.86
1.4	16QAM	3	3	22.83	22.81	22.80
1.4	16QAM	6	0	21.90	21.90	21.65
1.4	64QAM	1	0	21.69	21.88	21.83
1.4	64QAM	1	3	21.99	22.13	21.88
1.4	64QAM	1	5	21.83	22.02	21.65
1.4	64QAM	3	0	22.05	21.90	21.58
1.4	64QAM	3	1	22.03	22.06	21.67
1.4	64QAM	3	3	21.99	21.96	22.01
1.4	64QAM	6	0	20.78	20.87	20.78


LTE Band 7:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				20850	21100	21350
Frequency (MHz)				2510	2535	2560
20	QPSK	1	0	23.98	23.99	23.97
20	QPSK	1	49	23.94	23.84	23.94
20	QPSK	1	99	23.85	23.90	23.87
20	QPSK	50	0	22.92	23.05	23.00
20	QPSK	50	24	22.90	22.94	22.92
20	QPSK	50	50	22.98	23.06	22.90
20	QPSK	100	0	22.94	23.03	23.00
20	16QAM	1	0	23.49	23.42	22.95
20	16QAM	1	49	23.15	23.47	23.58
20	16QAM	1	99	23.16	23.18	23.58
20	16QAM	50	0	21.92	22.00	22.01
20	16QAM	50	24	21.97	22.00	22.00
20	16QAM	50	50	21.94	22.12	22.02
20	16QAM	100	0	21.95	21.95	22.06
20	64QAM	1	0	22.09	22.22	21.96
20	64QAM	1	49	21.95	22.11	22.34
20	64QAM	1	99	21.97	22.02	22.07
20	64QAM	50	0	21.02	21.00	21.09
20	64QAM	50	24	21.02	21.06	21.09
20	64QAM	50	50	21.05	21.12	20.98
20	64QAM	100	0	20.92	21.00	21.07



Channel				20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5
15	QPSK	1	0	23.86	23.96	23.88
15	QPSK	1	37	23.84	23.95	23.89
15	QPSK	1	74	23.90	23.92	23.90
15	QPSK	36	0	22.85	23.03	22.91
15	QPSK	36	20	23.02	22.95	22.98
15	QPSK	36	39	22.95	23.09	23.03
15	QPSK	75	0	22.95	23.02	23.00
15	16QAM	1	0	23.12	23.36	23.58
15	16QAM	1	37	23.05	23.55	23.20
15	16QAM	1	74	23.14	23.43	23.09
15	16QAM	36	0	21.88	21.99	22.06
15	16QAM	36	20	22.03	22.09	21.99
15	16QAM	36	39	21.97	22.14	22.02
15	16QAM	75	0	21.80	22.06	22.02
15	64QAM	1	0	21.97	22.21	22.34
15	64QAM	1	37	22.12	21.89	22.36
15	64QAM	1	74	22.15	22.30	22.15
15	64QAM	36	0	20.93	21.00	21.06
15	64QAM	36	20	21.03	21.01	20.93
15	64QAM	36	39	20.92	21.10	20.97
15	64QAM	75	0	20.97	21.03	21.02



Channel				20800	21100	21400
Frequency (MHz)				2505	2535	2565
10	QPSK	1	0	23.61	23.64	23.67
10	QPSK	1	25	23.84	23.86	23.69
10	QPSK	1	49	23.71	23.76	23.71
10	QPSK	25	0	22.78	22.99	22.89
10	QPSK	25	12	22.95	22.97	22.98
10	QPSK	25	25	22.92	23.02	23.01
10	QPSK	50	0	22.94	22.95	23.00
10	16QAM	1	0	23.10	23.10	23.28
10	16QAM	1	25	23.32	23.38	23.46
10	16QAM	1	49	23.13	22.99	23.08
10	16QAM	25	0	21.82	21.96	22.05
10	16QAM	25	12	21.93	21.88	21.96
10	16QAM	25	25	22.01	22.07	21.94
10	16QAM	50	0	21.94	21.92	22.04
10	64QAM	1	0	22.05	22.07	22.32
10	64QAM	1	25	22.21	22.21	22.35
10	64QAM	1	49	22.00	22.02	21.87
10	64QAM	25	0	20.94	21.04	21.04
10	64QAM	25	12	20.95	21.01	21.16
10	64QAM	25	25	20.93	21.05	20.90
10	64QAM	50	0	20.98	21.02	21.00



Channel				20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5
5	QPSK	1	0	23.62	23.82	23.84
5	QPSK	1	12	23.89	23.89	23.79
5	QPSK	1	24	23.89	23.96	23.92
5	QPSK	12	0	22.83	22.91	23.01
5	QPSK	12	7	22.87	22.97	22.92
5	QPSK	12	13	22.95	23.06	22.96
5	QPSK	25	0	22.89	23.05	23.01
5	16QAM	1	0	23.29	22.78	23.25
5	16QAM	1	12	22.91	23.14	23.00
5	16QAM	1	24	23.07	23.11	23.11
5	16QAM	12	0	21.80	21.95	21.95
5	16QAM	12	7	21.91	22.03	22.01
5	16QAM	12	13	21.96	21.97	22.11
5	16QAM	25	0	21.95	21.89	21.99
5	64QAM	1	0	21.97	21.92	22.16
5	64QAM	1	12	22.17	22.29	21.92
5	64QAM	1	24	22.01	21.76	22.25
5	64QAM	12	0	20.99	20.99	20.97
5	64QAM	12	7	20.95	20.96	20.98
5	64QAM	12	13	20.90	21.09	20.89
5	64QAM	25	0	20.98	20.95	21.04


LTE Band 38:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				37850	38000	38150
Frequency (MHz)				2580	2595	2610
20	QPSK	1	0	23.95	23.99	23.91
20	QPSK	1	49	23.96	23.97	23.88
20	QPSK	1	99	23.93	23.95	23.89
20	QPSK	50	0	23.12	23.15	23.01
20	QPSK	50	24	23.12	23.13	23.00
20	QPSK	50	50	23.17	23.04	23.04
20	QPSK	100	0	23.11	23.13	22.98
20	16QAM	1	0	23.09	23.08	23.02
20	16QAM	1	49	23.08	23.07	22.99
20	16QAM	1	99	23.13	23.08	23.01
20	16QAM	50	0	22.12	22.20	22.04
20	16QAM	50	24	22.13	22.17	22.03
20	16QAM	50	50	22.20	22.08	22.08
20	16QAM	100	0	22.13	22.17	22.01
20	64QAM	1	0	21.83	21.75	21.66
20	64QAM	1	49	21.82	21.83	21.77
20	64QAM	1	99	21.87	21.85	21.82
20	64QAM	50	0	21.13	21.19	21.06
20	64QAM	50	24	21.14	21.21	21.03
20	64QAM	50	50	21.18	21.07	21.06
20	64QAM	100	0	21.13	21.17	21.01



Channel				37825	38000	38175
Frequency (MHz)				2577.5	2595	2612.5
15	QPSK	1	0	23.95	23.92	23.85
15	QPSK	1	37	23.93	23.89	23.85
15	QPSK	1	74	23.97	23.91	23.88
15	QPSK	36	0	23.09	23.15	23.00
15	QPSK	36	20	23.15	23.14	23.04
15	QPSK	36	39	23.14	23.03	23.03
15	QPSK	75	0	23.17	23.15	23.08
15	16QAM	1	0	23.11	23.08	23.01
15	16QAM	1	37	22.97	22.94	22.91
15	16QAM	1	74	23.12	23.07	22.99
15	16QAM	36	0	22.06	22.11	21.97
15	16QAM	36	20	22.11	22.10	22.00
15	16QAM	36	39	22.12	21.98	21.98
15	16QAM	75	0	22.16	22.15	22.08
15	64QAM	1	0	21.77	21.72	21.65
15	64QAM	1	37	21.83	21.81	21.74
15	64QAM	1	74	21.84	21.73	21.78
15	64QAM	36	0	21.13	21.16	21.02
15	64QAM	36	20	21.15	21.13	21.06
15	64QAM	36	39	21.16	21.05	21.06
15	64QAM	75	0	21.18	21.15	21.06



Channel				37800	38000	38200
Frequency (MHz)				2575	2595	2615
10	QPSK	1	0	23.94	23.88	23.83
10	QPSK	1	25	23.84	23.81	23.83
10	QPSK	1	49	23.95	23.86	23.82
10	QPSK	25	0	23.02	23.15	23.04
10	QPSK	25	12	23.14	23.09	23.04
10	QPSK	25	25	23.05	23.01	23.13
10	QPSK	50	0	23.09	23.08	23.08
10	16QAM	1	0	23.04	23.18	23.05
10	16QAM	1	25	23.08	23.14	23.06
10	16QAM	1	49	23.09	23.06	23.09
10	16QAM	25	0	22.04	22.10	21.88
10	16QAM	25	12	22.05	22.10	21.97
10	16QAM	25	25	22.07	21.98	21.95
10	16QAM	50	0	22.13	22.14	21.98
10	64QAM	1	0	21.71	21.66	21.58
10	64QAM	1	25	21.77	21.73	21.74
10	64QAM	1	49	21.81	21.67	21.78
10	64QAM	25	0	21.04	21.09	20.94
10	64QAM	25	12	21.05	21.13	21.06
10	64QAM	25	25	21.11	21.05	20.98
10	64QAM	50	0	21.13	21.14	21.03



Channel				37775	38000	38225
Frequency (MHz)				2572.5	2595	2617.5
5	QPSK	1	0	23.93	23.92	23.83
5	QPSK	1	12	23.91	23.82	23.85
5	QPSK	1	24	23.95	23.81	23.83
5	QPSK	12	0	23.03	23.11	23.00
5	QPSK	12	7	23.05	23.04	23.00
5	QPSK	12	13	23.07	23.03	22.97
5	QPSK	25	0	23.16	23.06	23.00
5	16QAM	1	0	23.03	22.99	22.96
5	16QAM	1	12	22.87	22.85	22.83
5	16QAM	1	24	23.11	23.07	22.97
5	16QAM	12	0	22.06	22.10	21.94
5	16QAM	12	7	22.01	22.10	21.99
5	16QAM	12	13	22.07	21.98	21.95
5	16QAM	25	0	22.07	22.15	22.04
5	64QAM	1	0	21.71	21.66	21.56
5	64QAM	1	12	21.81	21.80	21.69
5	64QAM	1	24	21.83	21.65	21.77
5	64QAM	12	0	21.13	21.09	20.99
5	64QAM	12	7	21.11	21.11	20.98
5	64QAM	12	13	21.08	21.04	20.98
5	64QAM	25	0	21.15	21.05	20.96


LTE Band 41:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				39750	40620	41490
Frequency (MHz)				2506	2593	2680
20	QPSK	1	0	23.98	23.99	23.82
20	QPSK	1	49	23.97	23.96	23.69
20	QPSK	1	99	23.96	23.98	23.72
20	QPSK	50	0	23.12	23.15	22.90
20	QPSK	50	24	23.21	23.06	22.87
20	QPSK	50	50	23.15	23.11	22.82
20	QPSK	100	0	23.19	23.17	22.87
20	16QAM	1	0	23.14	23.15	22.97
20	16QAM	1	49	23.11	23.05	22.79
20	16QAM	1	99	23.15	23.10	22.82
20	16QAM	50	0	22.17	22.10	21.92
20	16QAM	50	24	22.19	22.09	21.89
20	16QAM	50	50	22.20	22.13	21.87
20	16QAM	100	0	22.20	22.06	21.88
20	64QAM	1	0	21.92	21.81	21.69
20	64QAM	1	49	21.83	21.79	21.54
20	64QAM	1	99	21.89	21.83	21.54
20	64QAM	50	0	21.17	21.09	20.94
20	64QAM	50	24	21.23	21.09	20.90
20	64QAM	50	50	21.17	21.13	20.87
20	64QAM	100	0	21.22	21.08	20.90



Channel				39725	40620	41515
Frequency (MHz)				2503.5	2593	2682.5
15	QPSK	1	0	23.94	23.96	23.73
15	QPSK	1	37	23.92	23.93	23.64
15	QPSK	1	74	23.93	23.95	23.75
15	QPSK	36	0	23.13	23.06	22.86
15	QPSK	36	20	23.19	23.02	22.81
15	QPSK	36	39	23.14	23.07	22.80
15	QPSK	75	0	23.17	23.03	22.82
15	16QAM	1	0	23.14	23.09	22.89
15	16QAM	1	37	23.01	22.94	22.74
15	16QAM	1	74	23.16	23.14	22.91
15	16QAM	36	0	22.13	22.00	21.82
15	16QAM	36	20	22.13	21.97	21.80
15	16QAM	36	39	22.11	22.05	21.78
15	16QAM	75	0	22.19	22.03	21.88
15	64QAM	1	0	21.92	21.77	21.62
15	64QAM	1	37	21.88	21.79	21.52
15	64QAM	1	74	21.89	21.89	21.62
15	64QAM	36	0	21.15	21.06	20.87
15	64QAM	36	20	21.16	21.04	20.85
15	64QAM	36	39	21.16	21.12	20.84
15	64QAM	75	0	21.19	21.06	20.85



Channel				39700	40620	41540
Frequency (MHz)				2501	2593	2685
10	QPSK	1	0	23.86	23.86	23.69
10	QPSK	1	25	23.91	23.90	23.64
10	QPSK	1	49	23.90	23.86	23.65
10	QPSK	25	0	23.11	22.99	22.85
10	QPSK	25	12	23.12	22.92	22.72
10	QPSK	25	25	23.13	23.07	22.77
10	QPSK	50	0	23.17	22.96	22.72
10	16QAM	1	0	23.11	23.08	22.86
10	16QAM	1	25	22.96	22.84	22.69
10	16QAM	1	49	23.10	23.13	22.87
10	16QAM	25	0	22.04	21.95	21.81
10	16QAM	25	12	22.04	21.92	21.77
10	16QAM	25	25	22.08	21.95	21.75
10	16QAM	50	0	22.12	21.96	21.85
10	64QAM	1	0	21.91	21.71	21.56
10	64QAM	1	25	21.87	21.73	21.51
10	64QAM	1	49	21.85	21.84	21.53
10	64QAM	25	0	21.10	21.01	20.86
10	64QAM	25	12	21.12	21.01	20.83
10	64QAM	25	25	21.07	21.04	20.84
10	64QAM	50	0	21.19	21.02	20.83



Channel				39675	40620	41565
Frequency (MHz)				2498.5	2593	2687.5
5	QPSK	1	0	23.91	23.95	23.65
5	QPSK	1	12	23.87	23.84	23.58
5	QPSK	1	24	23.89	23.87	23.72
5	QPSK	12	0	23.07	23.04	22.83
5	QPSK	12	7	23.10	23.02	22.72
5	QPSK	12	13	23.11	22.98	22.79
5	QPSK	25	0	23.14	22.98	22.79
5	16QAM	1	0	23.07	23.09	22.79
5	16QAM	1	12	23.01	22.94	22.64
5	16QAM	1	24	23.13	23.05	22.81
5	16QAM	12	0	22.12	21.93	21.74
5	16QAM	12	7	22.09	21.88	21.70
5	16QAM	12	13	22.05	21.97	21.68
5	16QAM	25	0	22.11	22.01	21.84
5	64QAM	1	0	21.82	21.75	21.58
5	64QAM	1	12	21.88	21.70	21.48
5	64QAM	1	24	21.81	21.89	21.53
5	64QAM	12	0	21.05	21.00	20.79
5	64QAM	12	7	21.12	21.00	20.81
5	64QAM	12	13	21.07	21.12	20.83
5	64QAM	25	0	21.09	21.02	20.83

**CA Power**

CA_7C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
20850	21048	QPSK	1	99	1	0	1	0	22.45
21100	20902	QPSK	1	0	1	99	2	0	22.63
21350	21152	QPSK	1	0	1	99	2	0	22.79
20850	21048	16QAM	1	99	1	0	1	0	22.25
21100	20902	16QAM	1	0	1	99	2	0	22.26
21350	21152	16QAM	1	0	1	99	2	0	22.35
20850	21048	64QAM	1	99	1	0	1	0	22.11
21100	20902	64QAM	1	0	1	99	2	0	22.15
21350	21152	64QAM	1	0	1	99	2	0	22.27

CA_38C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
37850	38048	QPSK	1	99	1	0	1	0	24.36
37901	38099	QPSK	1	99	1	0	1	0	24.3
38150	37952	QPSK	1	0	1	99	2	0	24.43
37850	38048	16QAM	1	99	1	0	1	0	24.12
37901	38099	16QAM	1	99	1	0	1	0	24.14
38150	37952	16QAM	1	0	1	99	2	0	24.21
37850	38048	64QAM	1	99	1	0	1	0	24.18
37901	38099	64QAM	1	99	1	0	1	0	24.16
38150	37952	64QAM	1	0	1	99	2	0	24.25

Note: In the report, we shown the maximum conducted power.

ERP/EIRP

LTE Band 2 (GT - LC = 2.10 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
(MHz)									
Conducted Power (dBm)	23.83	23.87	23.52	23.79	23.86	23.61	23.83	23.76	23.62
Conducted Power (Watts)	0.2415	0.2438	0.2249	0.2393	0.2432	0.2296	0.2415	0.2377	0.2301
EIRP(dBm)	25.93	25.97	25.62	25.89	25.96	25.71	25.93	25.86	25.72
EIRP(Watts)	0.3917	0.3954	0.3648	0.3882	0.3945	0.3724	0.3917	0.3855	0.3733

LTE Band 2 (GT - LC = 2.10 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
(MHz)									
Conducted Power (dBm)	23.79	23.81	23.70	23.86	23.91	23.70	23.89	23.93	23.88
Conducted Power (Watts)	0.2393	0.2404	0.2344	0.2432	0.2460	0.2344	0.2449	0.2472	0.2443
EIRP(dBm)	25.89	25.91	25.80	25.96	26.01	25.80	25.99	26.03	25.98
EIRP(Watts)	0.3882	0.3899	0.3802	0.3945	0.3990	0.3802	0.3972	0.4009	0.3963



LTE Band 2 (GT - LC = 2.10 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
(MHz)									
Conducted Power (dBm)	23.07	23.32	22.61	23.45	23.08	22.96	22.84	23.34	22.92
Conducted Power (Watts)	0.2028	0.2148	0.1824	0.2213	0.2032	0.1977	0.1923	0.2158	0.1959
EIRP(dBm)	25.17	25.42	24.71	25.55	25.18	25.06	24.94	25.44	25.02
EIRP(Watts)	0.3289	0.3483	0.2958	0.3589	0.3296	0.3206	0.3119	0.3499	0.3177

LTE Band 2 (GT - LC = 2.10 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
(MHz)									
Conducted Power (dBm)	23.11	23.23	23.12	23.48	23.37	23.22	23.02	23.44	22.94
Conducted Power (Watts)	0.2046	0.2104	0.2051	0.2228	0.2173	0.2099	0.2004	0.2208	0.1968
EIRP(dBm)	25.21	25.33	25.22	25.58	25.47	25.32	25.12	25.54	25.04
EIRP(Watts)	0.3319	0.3412	0.3327	0.3614	0.3524	0.3404	0.3251	0.3581	0.3192



LTE Band 2 (GT - LC = 2.10 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	18607	18900	19193	18615	18900	19185	18625	18900	19175
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1850.7	1880	1909.3	1851.5	1880	1908.5	1852.5	1880	1907.5
(MHz)									
Conducted Power (dBm)	22.12	22.17	21.72	21.96	22.24	21.96	22.22	22.16	21.91
Conducted Power (Watts)	0.1629	0.1648	0.1486	0.1570	0.1675	0.1570	0.1667	0.1644	0.1552
EIRP(dBm)	24.22	24.27	23.82	24.06	24.34	24.06	24.32	24.26	24.01
EIRP(Watts)	0.2642	0.2673	0.2410	0.2547	0.2716	0.2547	0.2704	0.2667	0.2518

LTE Band 2 (GT - LC = 2.10 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	18650	18900	19150	18675	18900	19125	18650	18900	19100
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1855	1880	1905	1857.5	1880	1902.5	1860	1880	1900
(MHz)									
Conducted Power (dBm)	22.27	22.38	22.27	22.18	21.80	22.11	22.15	22.16	21.59
Conducted Power (Watts)	0.1687	0.1730	0.1687	0.1652	0.1514	0.1626	0.1641	0.1644	0.1442
EIRP(dBm)	24.37	24.48	24.37	24.28	23.90	24.21	24.25	24.26	23.69
EIRP(Watts)	0.2735	0.2805	0.2735	0.2679	0.2455	0.2636	0.2661	0.2667	0.2339



LTE Band 4 (GT - LC = 1.10 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
(MHz)									
Conducted Power (dBm)	23.65	23.65	23.50	23.80	23.59	23.59	23.80	23.66	23.53
Conducted Power (Watts)	0.2317	0.2317	0.2239	0.2399	0.2286	0.2286	0.2399	0.2323	0.2254
EIRP(dBm)	24.75	24.75	24.60	24.90	24.69	24.69	24.90	24.76	24.63
EIRP(Watts)	0.2985	0.2985	0.2884	0.3090	0.2944	0.2944	0.3090	0.2992	0.2904

LTE Band 4 (GT - LC = 1.10 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
(MHz)									
Conducted Power (dBm)	23.57	23.82	23.72	23.80	23.82	23.73	23.80	23.84	23.70
Conducted Power (Watts)	0.2275	0.2410	0.2355	0.2399	0.2410	0.2360	0.2399	0.2421	0.2344
EIRP(dBm)	24.67	24.92	24.82	24.90	24.92	24.83	24.90	24.94	24.80
EIRP(Watts)	0.2931	0.3105	0.3034	0.3090	0.3105	0.3041	0.3090	0.3119	0.3020



LTE Band 4 (GT - LC = 1.10 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
(MHz)									
Conducted Power (dBm)	22.99	23.00	22.81	22.98	22.88	22.99	22.98	22.99	22.49
Conducted Power (Watts)	0.1991	0.1995	0.1910	0.1986	0.1941	0.1991	0.1986	0.1991	0.1774
EIRP(dBm)	24.09	24.10	23.91	24.08	23.98	24.09	24.08	24.09	23.59
EIRP(Watts)	0.2564	0.2570	0.2460	0.2559	0.2500	0.2564	0.2559	0.2564	0.2286

LTE Band 4 (GT - LC = 1.10 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
(MHz)									
Conducted Power (dBm)	22.73	22.99	22.89	22.99	22.78	22.89	22.67	22.99	22.87
Conducted Power (Watts)	0.1875	0.1991	0.1945	0.1991	0.1897	0.1945	0.1849	0.1991	0.1936
EIRP(dBm)	23.83	24.09	23.99	24.09	23.88	23.99	23.77	24.09	23.97
EIRP(Watts)	0.2415	0.2564	0.2506	0.2564	0.2443	0.2506	0.2382	0.2564	0.2495



LTE Band 4 (GT - LC = 1.10 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	19957	20175	20393	19965	20175	20385	19975	20175	20375
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1710.7	1732.5	1754.3	1711.5	1732.5	1753.5	1712.5	1732.5	1752.5
(MHz)									
Conducted Power (dBm)	21.31	22.00	21.72	21.38	21.99	21.71	21.08	21.99	21.89
Conducted Power (Watts)	0.1352	0.1585	0.1486	0.1374	0.1581	0.1483	0.1282	0.1581	0.1545
EIRP(dBm)	22.41	23.10	22.82	22.48	23.09	22.81	22.18	23.09	22.99
EIRP(Watts)	0.1742	0.2042	0.1914	0.1770	0.2037	0.1910	0.1652	0.2037	0.1991

LTE Band 4 (GT - LC = 1.10 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	20000	20175	20350	20025	20175	20325	20050	20175	20300
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	1715	1732.5	1750	1717.5	1732.5	1747.5	1720	1732.5	1745
(MHz)									
Conducted Power (dBm)	21.04	22.00	21.69	21.86	21.79	21.86	21.06	21.99	21.76
Conducted Power (Watts)	0.1271	0.1585	0.1476	0.1535	0.1510	0.1535	0.1276	0.1581	0.1500
EIRP(dBm)	22.14	23.10	22.79	22.96	22.89	22.96	22.16	23.09	22.86
EIRP(Watts)	0.1637	0.2042	0.1901	0.1977	0.1945	0.1977	0.1644	0.2037	0.1932



LTE Band 5 (GT - LC = -4.70 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	23.86	23.79	23.78	23.87	23.88	23.80	23.68	23.72	23.86
Conducted Power (Watts)	0.2432	0.2393	0.2388	0.2438	0.2443	0.2399	0.2333	0.2355	0.2432
ERP(dBm)	17.01	16.94	16.93	17.02	17.03	16.95	16.83	16.87	17.01
ERP(Watts)	0.0502	0.0494	0.0493	0.0504	0.0505	0.0495	0.0482	0.0486	0.0502

LTE Band 5 (GT - LC = -4.70 dB) QPSK			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	23.81	23.89	23.77
Conducted Power (Watts)	0.2404	0.2449	0.2382
ERP(dBm)	16.96	17.04	16.92
ERP(Watts)	0.0497	0.0506	0.0492



LTE Band 5 (GT - LC = -4.70 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	22.74	23.36	23.26	23.31	22.88	23.04	23.34	22.91	22.80
Conducted Power (Watts)	0.1879	0.2168	0.2118	0.2143	0.1941	0.2014	0.2158	0.1954	0.1905
ERP(dBm)	15.89	16.51	16.41	16.46	16.03	16.19	16.49	16.06	15.95
ERP(Watts)	0.0388	0.0448	0.0438	0.0443	0.0401	0.0416	0.0446	0.0404	0.0394

LTE Band 5 (GT - LC = -4.70 dB) 16QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	23.48	22.80	23.03
Conducted Power (Watts)	0.2228	0.1905	0.2009
ERP(dBm)	16.63	15.95	16.18
ERP(Watts)	0.0460	0.0394	0.0415



LTE Band 5 (GT - LC = -4.70 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	20407	20525	20643	20415	20525	20635	20425	20525	20625
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	21.99	22.13	21.88	22.24	22.26	22.15	22.21	22.21	21.94
Conducted Power (Watts)	0.1581	0.1633	0.1542	0.1675	0.1683	0.1641	0.1663	0.1663	0.1563
ERP(dBm)	15.14	15.28	15.03	15.39	15.41	15.30	15.36	15.36	15.09
ERP(Watts)	0.0327	0.0337	0.0318	0.0346	0.0348	0.0339	0.0344	0.0344	0.0323

LTE Band 5 (GT - LC = -4.70 dB) 64QAM			
Bandwidth	10M		
Channel	20450	20525	20600
	(Low)	(Mid)	(High)
Frequency	829	836.5	844
(MHz)			
Conducted Power (dBm)	22.42	21.85	21.38
Conducted Power (Watts)	0.1746	0.1531	0.1374
ERP(dBm)	15.57	15.00	14.53
ERP(Watts)	0.0361	0.0316	0.0284



LTE Band 7 (GT - LC = 1.70 dB) QPSK			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	23.89	23.96	23.92
Conducted Power (Watts)	0.2449	0.2489	0.2466
EIRP(dBm)	25.59	25.66	25.62
EIRP(Watts)	0.3622	0.3681	0.3648

LTE Band 7 (GT - LC = 1.70 dB) QPSK									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
(MHz)									
Conducted Power (dBm)	23.84	23.86	23.69	23.86	23.96	23.88	23.98	23.99	23.97
Conducted Power (Watts)	0.2421	0.2432	0.2339	0.2432	0.2489	0.2443	0.2500	0.2506	0.2495
EIRP(dBm)	25.54	25.56	25.39	25.56	25.66	25.58	25.68	25.69	25.67
EIRP(Watts)	0.3581	0.3597	0.3459	0.3597	0.3681	0.3614	0.3698	0.3707	0.3690



LTE Band 7 (GT - LC = 1.70 dB) 16QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	23.29	22.78	23.25
Conducted Power (Watts)	0.2133	0.1897	0.2113
EIRP(dBm)	24.99	24.48	24.95
EIRP(Watts)	0.3155	0.2805	0.3126

LTE Band 7 (GT - LC = 1.70 dB) 16QAM									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
(MHz)									
Conducted Power (dBm)	23.32	23.38	23.46	23.12	23.36	23.58	23.15	23.47	23.58
Conducted Power (Watts)	0.2148	0.2178	0.2218	0.2051	0.2168	0.2280	0.2065	0.2223	0.2280
EIRP(dBm)	25.02	25.08	25.16	24.82	25.06	25.28	24.85	25.17	25.28
EIRP(Watts)	0.3177	0.3221	0.3281	0.3034	0.3206	0.3373	0.3055	0.3289	0.3373



LTE Band 7 (GT - LC = 1.70 dB) 64QAM			
Bandwidth	5M		
Channel	20775	21100	21425
	(Low)	(Mid)	(High)
Frequency	2502.5	2535	2567.5
(MHz)			
Conducted Power (dBm)	22.17	22.29	21.92
Conducted Power (Watts)	0.1648	0.1694	0.1556
EIRP(dBm)	23.87	23.99	23.62
EIRP(Watts)	0.2438	0.2506	0.2301

LTE Band 7 (GT - LC = 1.70 dB) 64QAM									
Bandwidth	10M			15M			20M		
Channel	20800	21100	21400	20825	21100	21375	20850	21100	21350
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2505	2535	2565	2507.5	2535	2562.5	2510	2535	2560
(MHz)									
Conducted Power (dBm)	22.21	22.21	22.35	22.12	21.89	22.36	21.95	22.11	22.34
Conducted Power (Watts)	0.1663	0.1663	0.1718	0.1629	0.1545	0.1722	0.1567	0.1626	0.1714
EIRP(dBm)	23.91	23.91	24.05	23.82	23.59	24.06	23.65	23.81	24.04
EIRP(Watts)	0.2460	0.2460	0.2541	0.2410	0.2286	0.2547	0.2317	0.2404	0.2535

LTE Band 41 (GT - LC = 1.70 dB) QPSK									
Bandwidth	5M			10M			15M		
Channel	36975	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
(MHz)									
Conducted Power (dBm)	23.91	23.95	23.65	23.91	23.90	23.64	23.94	23.96	23.73
Conducted Power (Watts)	0.2460	0.2483	0.2317	0.2460	0.2455	0.2312	0.2477	0.2489	0.2360
EIRP(dBm)	25.61	25.65	25.35	25.61	25.60	25.34	25.64	25.66	25.43
EIRP(Watts)	0.3639	0.3673	0.3428	0.3639	0.3631	0.3420	0.3664	0.3681	0.3491

LTE Band 41 (GT - LC = 1.70 dB) QPSK			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency	2506	2593	2680
(MHz)			
Conducted Power (dBm)	23.98	23.99	23.82
Conducted Power (Watts)	0.2500	0.2506	0.2410
EIRP(dBm)	25.68	25.69	25.52
EIRP(Watts)	0.3698	0.3707	0.3565

LTE Band 41 (GT - LC = 1.70 dB) 16QAM									
Bandwidth	5M			10M			15M		
Channel	36975	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
(MHz)									
Conducted Power (dBm)	23.13	23.05	22.81	23.10	23.13	22.87	23.16	23.14	22.91
Conducted Power (Watts)	0.2056	0.2018	0.1910	0.2042	0.2056	0.1936	0.2070	0.2061	0.1954
EIRP(dBm)	24.83	24.75	24.51	24.80	24.83	24.57	24.86	24.84	24.61
EIRP(Watts)	0.3041	0.2985	0.2825	0.3020	0.3041	0.2864	0.3062	0.3048	0.2891

LTE Band 41 (GT - LC = 1.70 dB) 16QAM			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency	2506	2593	2680
(MHz)			
Conducted Power (dBm)	23.14	23.15	22.97
Conducted Power (Watts)	0.2061	0.2065	0.1982
EIRP(dBm)	24.84	24.85	24.67
EIRP(Watts)	0.3048	0.3055	0.2931



LTE Band 41 (GT - LC = 1.70 dB) 64QAM									
Bandwidth	5M			10M			15M		
Channel	36975	40620	41565	39700	40620	41540	39725	40620	41515
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	2498.5	2593	2687.5	2501	2593	2685	2503.5	2593	2682.5
(MHz)									
Conducted Power (dBm)	21.81	21.89	21.53	21.91	21.71	21.56	21.92	21.77	21.62
Conducted Power (Watts)	0.1517	0.1545	0.1422	0.1552	0.1483	0.1432	0.1556	0.1503	0.1452
EIRP(dBm)	23.51	23.59	23.23	23.61	23.41	23.26	23.62	23.47	23.32
EIRP(Watts)	0.2244	0.2286	0.2104	0.2296	0.2193	0.2118	0.2301	0.2223	0.2148

LTE Band 41 (GT - LC = 1.70 dB) 64QAM			
Bandwidth	20M		
Channel	39750	40620	41490
	(Low)	(Mid)	(High)
Frequency	2506	2593	2680
(MHz)			
Conducted Power (dBm)	21.92	21.81	21.69
Conducted Power (Watts)	0.1556	0.1517	0.1476
EIRP(dBm)	23.62	23.51	23.39
EIRP(Watts)	0.2301	0.2244	0.2183

**CA EIRP**

LTE Band 7 CA (GT - LC = 1.70 dB) QPSK			
Bandwidth	20M+20M		
Channel PCC	20850	21001	21152
	(Low)	(Mid)	(High)
Channel SCC	21048	21199	21350
	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.45	22.63	22.79
Conducted Power (Watts)	0.1758	0.1832	0.1901
EIRP(dBm)	24.15	24.33	24.49
EIRP(Watts)	0.2600	0.2710	0.2812

LTE Band 7 CA (GT - LC = 1.70 dB) 16QAM			
Bandwidth	20M+20M		
Channel PCC	20850	21001	21152
	(Low)	(Mid)	(High)
Channel SCC	21048	21199	21350
	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.25	22.26	22.35
Conducted Power (Watts)	0.1679	0.1683	0.1718
EIRP(dBm)	23.95	23.96	24.05
EIRP(Watts)	0.2483	0.2489	0.2541



LTE Band 7 CA (GT - LC = 1.70 dB) 64QAM			
Bandwidth	20M+20M		
Channel PCC	20850	21001	21152
	(Low)	(Mid)	(High)
Channel SCC	21048	21199	21350
	(Low)	(Mid)	(High)
Conducted Power (dBm)	22.11	22.15	22.27
Conducted Power (Watts)	0.1626	0.1641	0.1687
EIRP(dBm)	23.81	23.85	23.97
EIRP(Watts)	0.2404	0.2427	0.2495



LTE Band 38 CA (GT - LC = 1.70 dB) QPSK			
Bandwidth	20M+20M		
Channel PCC	37850	37901	37952
	(Low)	(Mid)	(High)
Channel SCC	38048	38099	38150
	(Low)	(Mid)	(High)
Conducted Power (dBm)	24.36	24.3	24.43
Conducted Power (Watts)	0.2729	0.2692	0.2773
EIRP(dBm)	26.06	26.00	26.13
EIRP(Watts)	0.4036	0.3981	0.4102

LTE Band 38 CA (GT - LC = 1.70 dB) 16QAM			
Bandwidth	20M+20M		
Channel PCC	37850	37901	37952
	(Low)	(Mid)	(High)
Channel SCC	38048	38099	38150
	(Low)	(Mid)	(High)
Conducted Power (dBm)	24.12	24.14	24.21
Conducted Power (Watts)	0.2582	0.2594	0.2636
EIRP(dBm)	25.82	25.84	25.91
EIRP(Watts)	0.3819	0.3837	0.3899



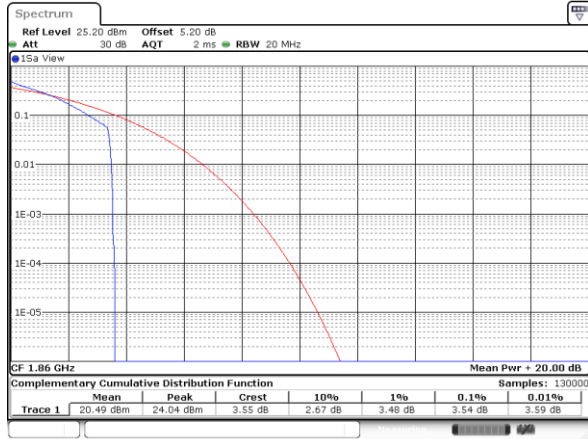
LTE Band 38 CA (GT - LC = 1.70 dB) 64QAM			
Bandwidth	20M+20M		
Channel PCC	37850	37901	37952
	(Low)	(Mid)	(High)
Channel SCC	38048	38099	38150
	(Low)	(Mid)	(High)
Conducted Power (dBm)	24.18	24.16	24.25
Conducted Power (Watts)	0.2618	0.2606	0.2661
EIRP(dBm)	25.88	25.86	25.95
EIRP(Watts)	0.3873	0.3855	0.3936



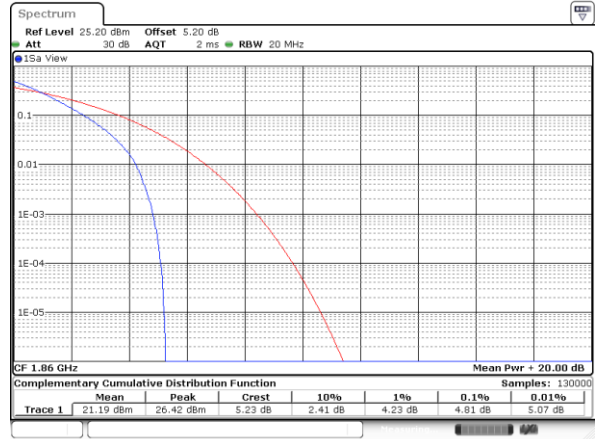
LTE Band 2

Peak-to-Average Ratio

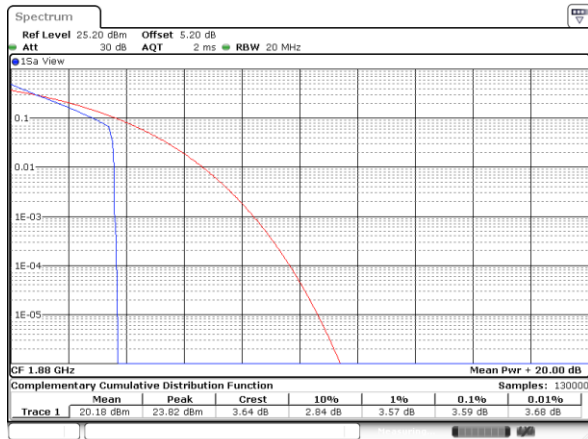
Mode	LTE Band 2 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.54	4.81	4.58	5.80	PASS
Middle CH	3.59	4.84	5.13	5.88	
Highest CH	3.54	4.99	5.25	5.91	
Mode	LTE Band 2 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.97	6.46	-	-	PASS
Middle CH	6.70	6.49	-	-	
Highest CH	6.46	6.46	-	-	

LTE Band 2 / 20MHz / QPSK
Lowest Channel / 1RB


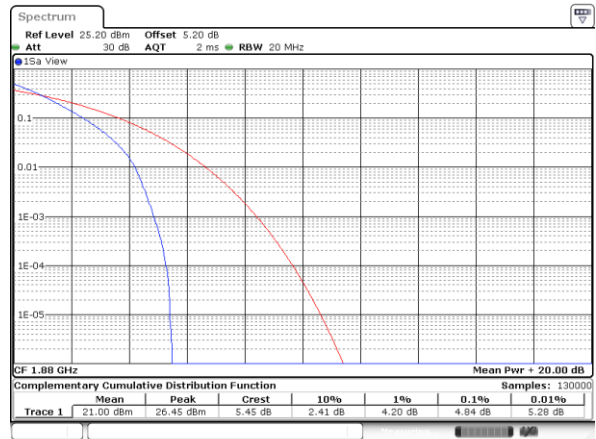
Date: 7 AUG 2020 14:14:17

Lowest Channel / Full RB


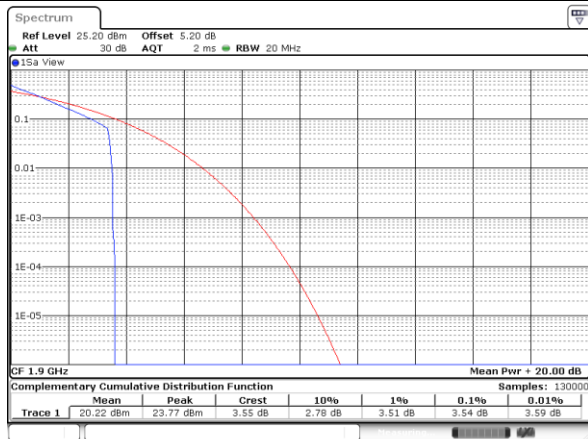
Date: 7 AUG 2020 14:17:12

Middle Channel / 1RB


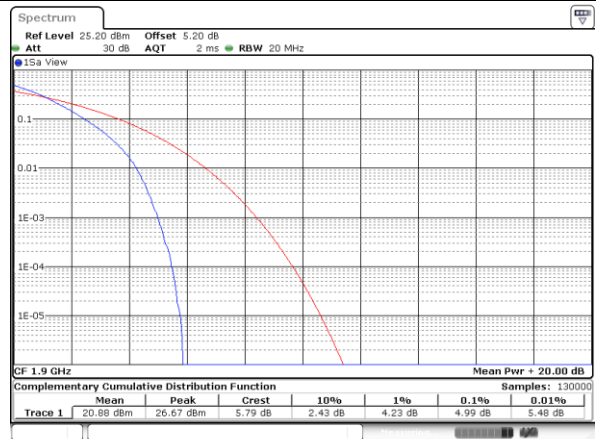
Date: 7 AUG 2020 14:15:42

Middle Channel / Full RB


Date: 7 AUG 2020 14:17:57

Highest Channel / 1RB


Date: 7 AUG 2020 14:16:22

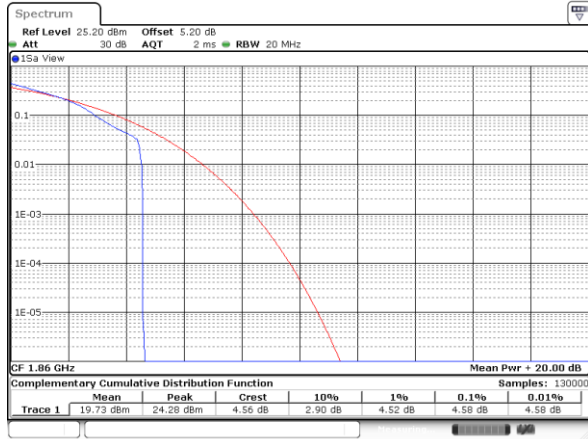
Highest Channel / Full RB


Date: 7 AUG 2020 14:18:51

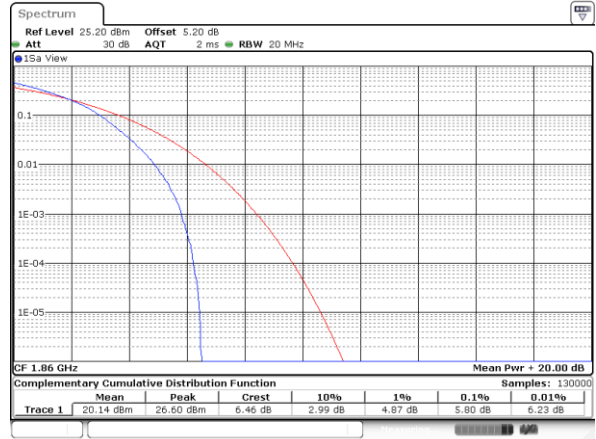


LTE Band 2 / 20MHz / 16QAM

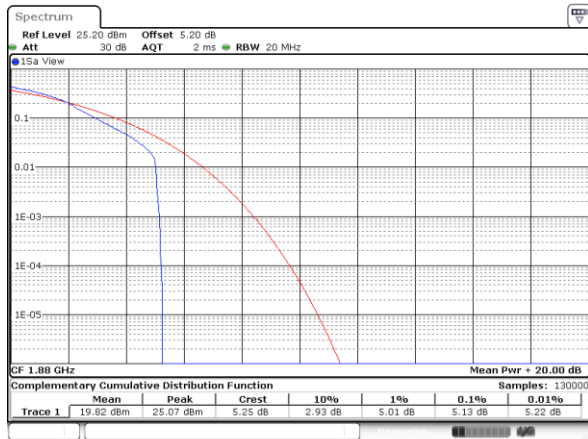
Lowest Channel / 1RB



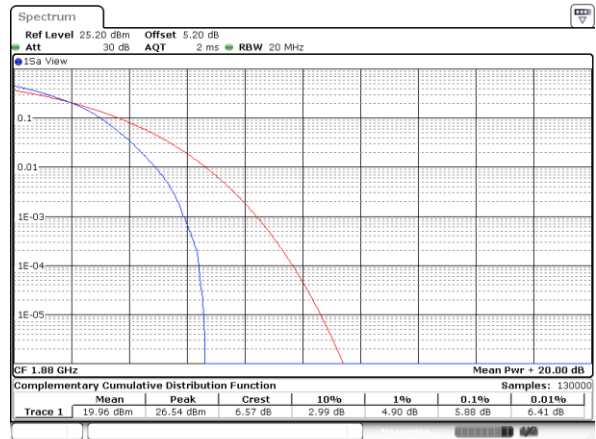
Lowest Channel / Full RB



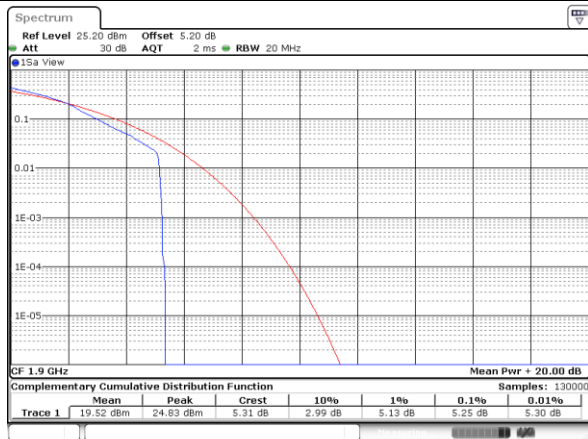
Middle Channel / 1RB



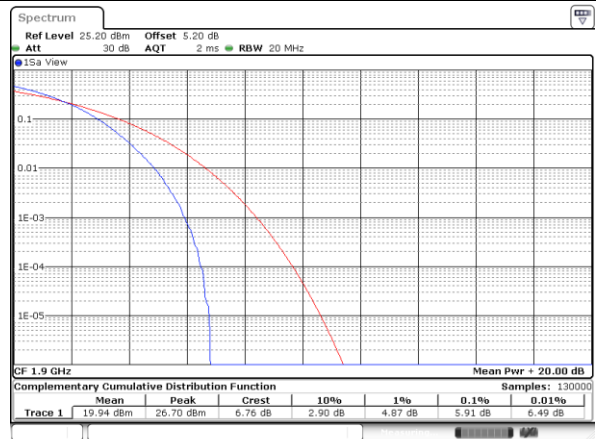
Middle Channel / Full RB



Highest Channel / 1RB



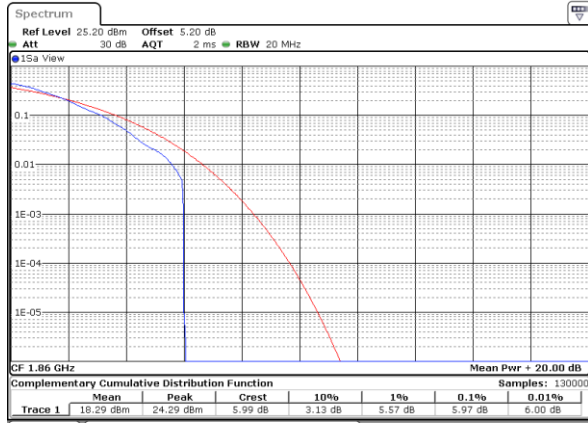
Highest Channel / Full RB



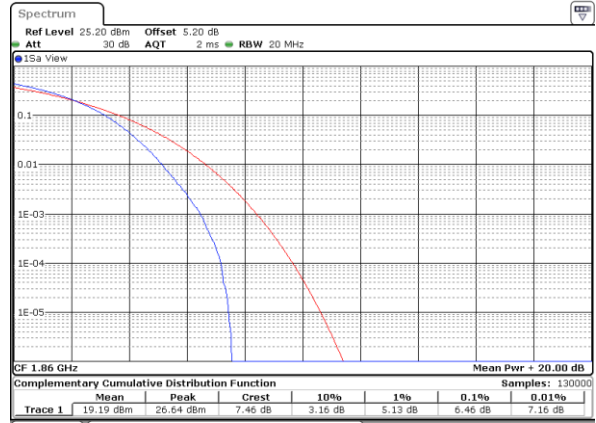


LTE Band 2 / 20MHz / 64QAM

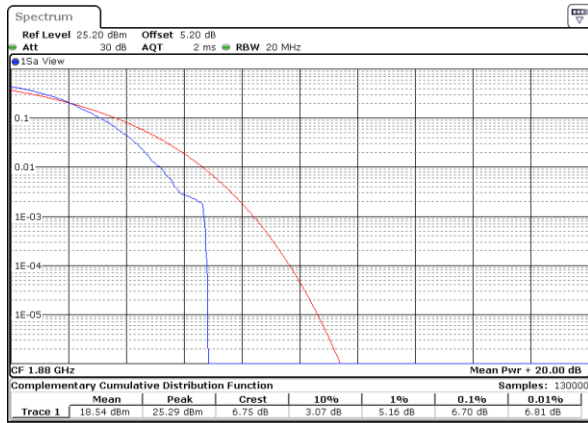
Lowest Channel / 1RB



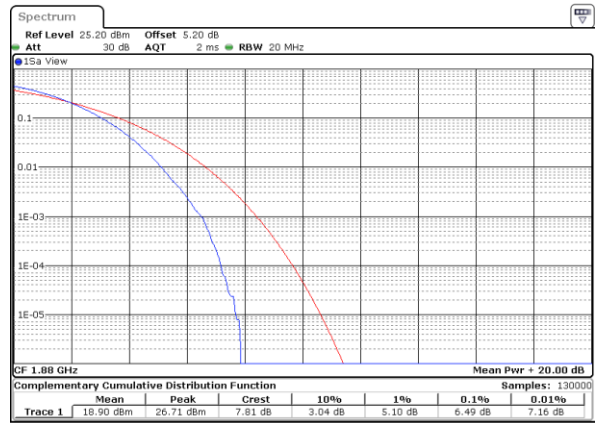
Lowest Channel / Full RB



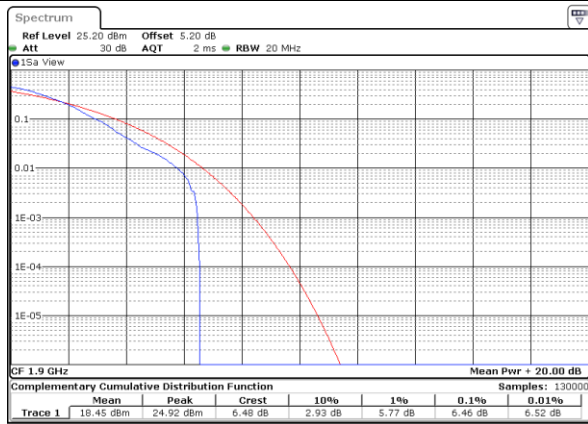
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



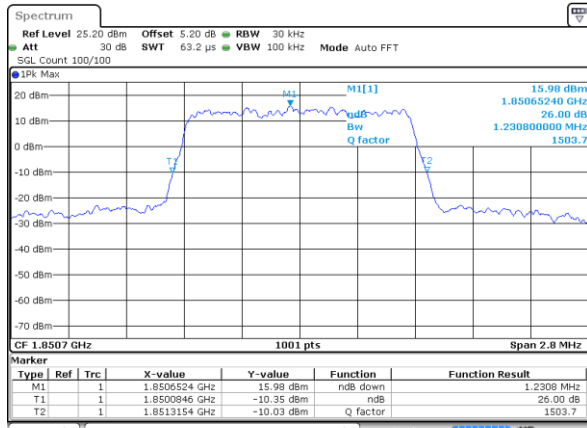
**26dB Bandwidth**

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	1.23	1.22	3.05	3.02	4.93	4.91	9.87	9.87	14.21	14.42	20.10	20.10
Middle CH	1.22	1.23	3.05	3.03	4.92	4.87	9.73	9.71	14.39	14.66	20.34	20.14
Highest CH	1.23	1.23	3.04	3.01	4.89	4.89	9.77	9.67	14.18	14.36	20.10	20.02
Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.22	-	2.99	-	4.90	-	9.75	-	14.60	-	20.22	-
Middle CH	1.23	-	2.98	-	4.91	-	9.87	-	14.27	-	20.10	-
Highest CH	1.23	-	2.96	-	4.92	-	9.77	-	14.51	-	20.06	-



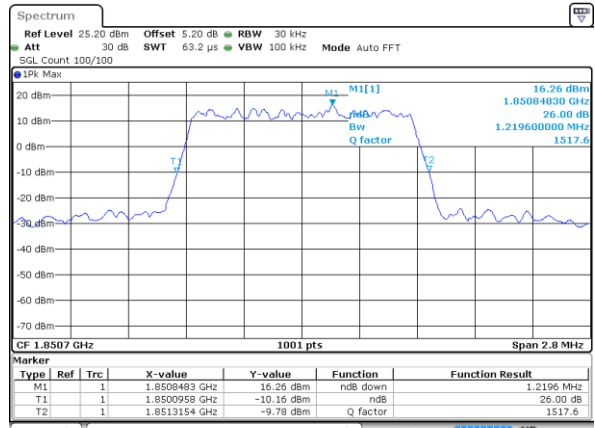
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



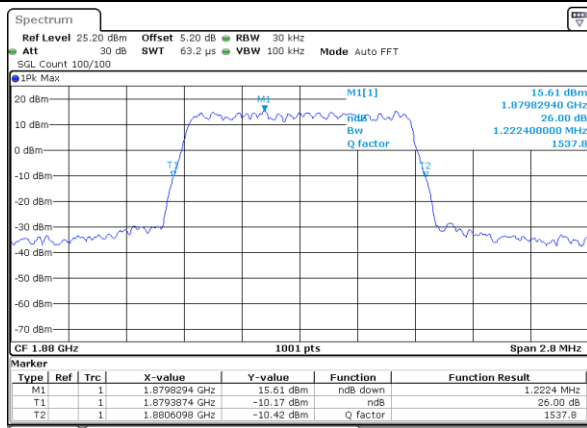
Date: 7 AUG 2020 11:06:13

Lowest Channel / 1.4MHz / 16QAM



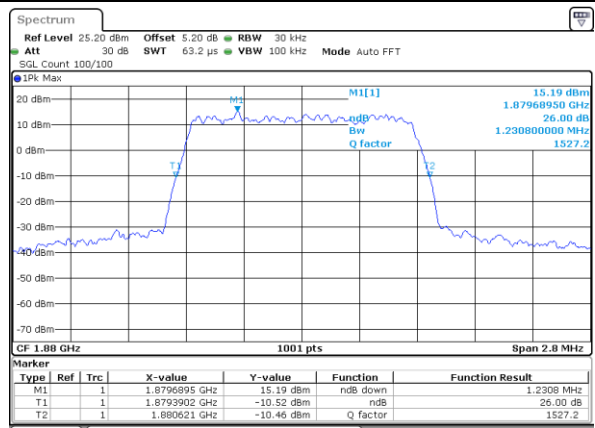
Date: 7 AUG 2020 11:06:23

Middle Channel / 1.4MHz / QPSK



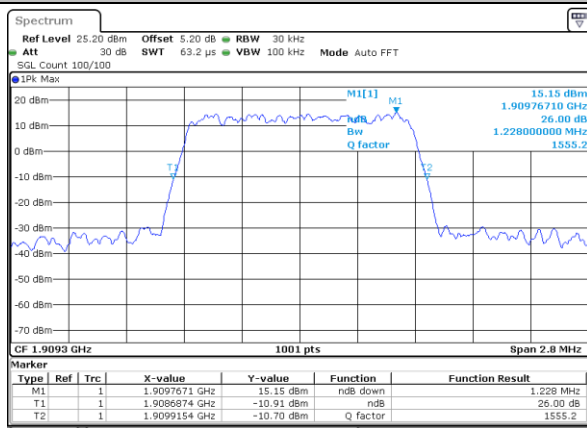
Date: 7 AUG 2020 11:13:13

Middle Channel / 1.4MHz / 16QAM



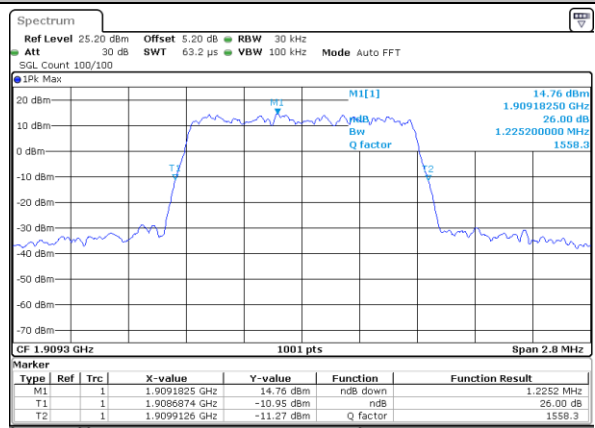
Date: 7 AUG 2020 11:13:23

Highest Channel / 1.4MHz / QPSK



Date: 7 AUG 2020 11:15:42

Highest Channel / 1.4MHz / 16QAM

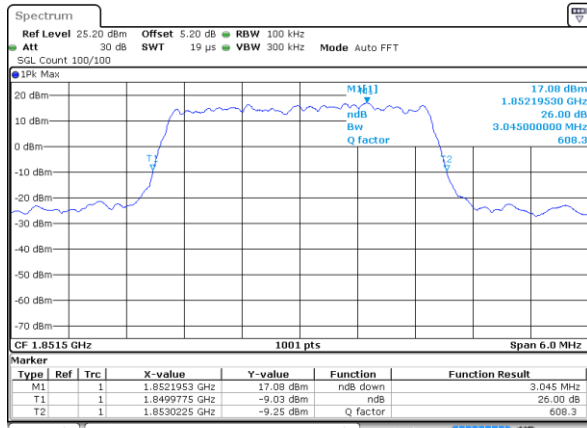


Date: 7 AUG 2020 11:15:52

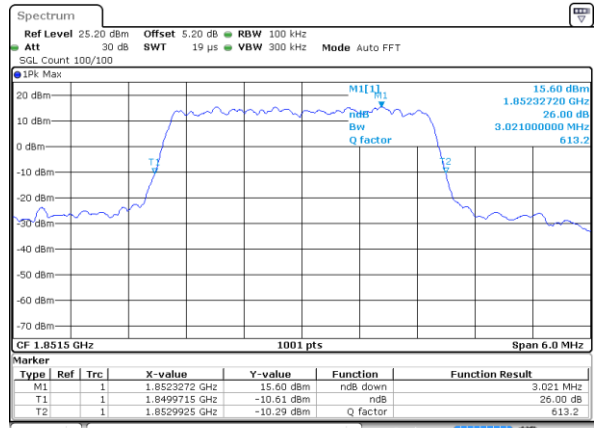


LTE Band 2

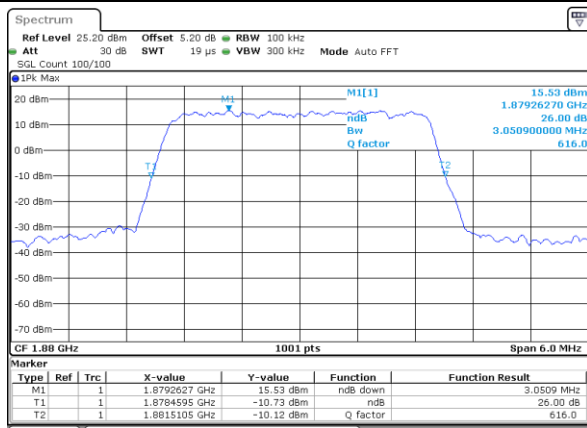
Lowest Channel / 3MHz / QPSK



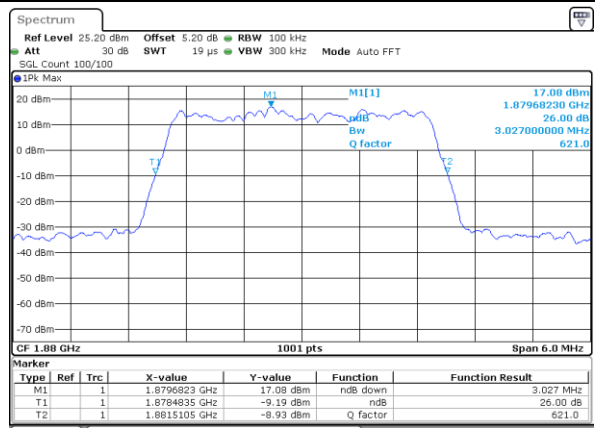
Lowest Channel / 3MHz / 16QAM



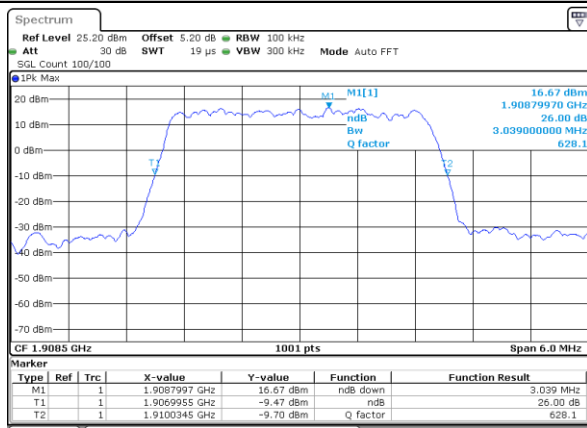
Middle Channel / 3MHz / QPSK



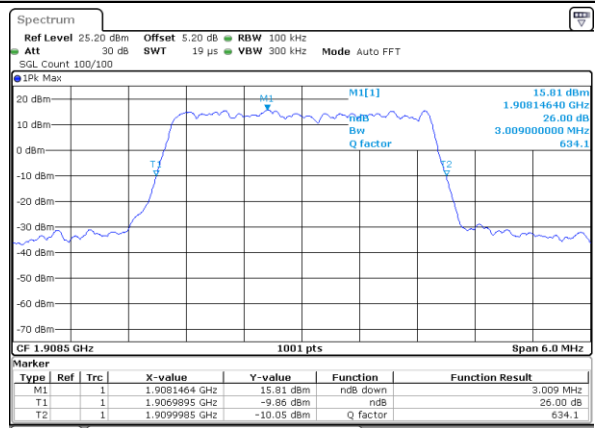
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



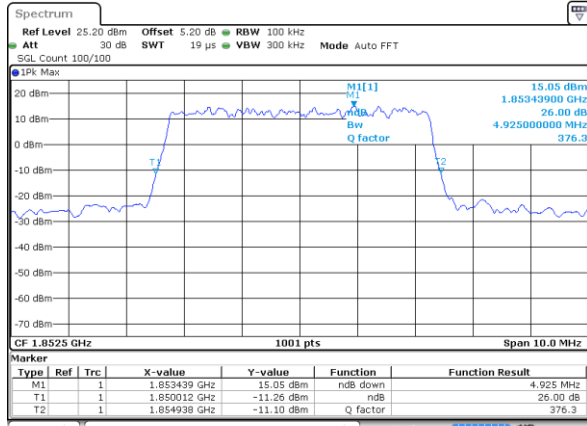
Highest Channel / 3MHz / 16QAM



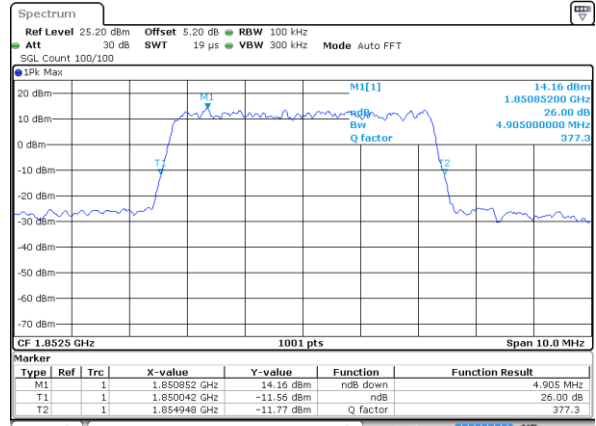


LTE Band 2

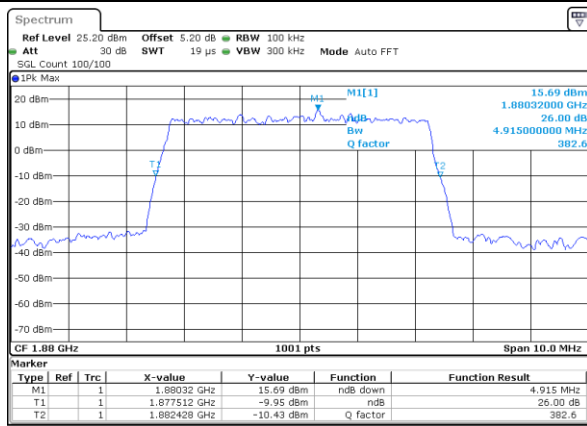
Lowest Channel / 5MHz / QPSK



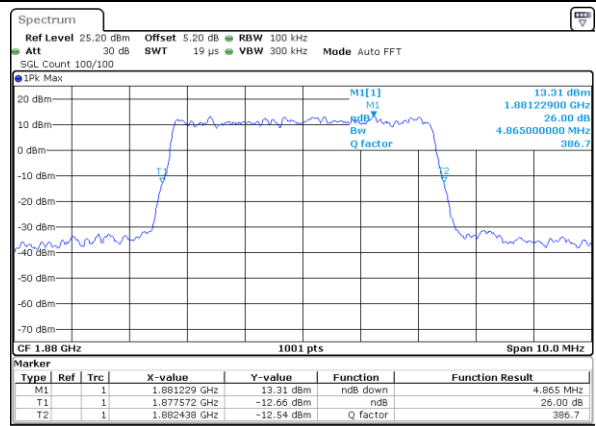
Lowest Channel / 5MHz / 16QAM



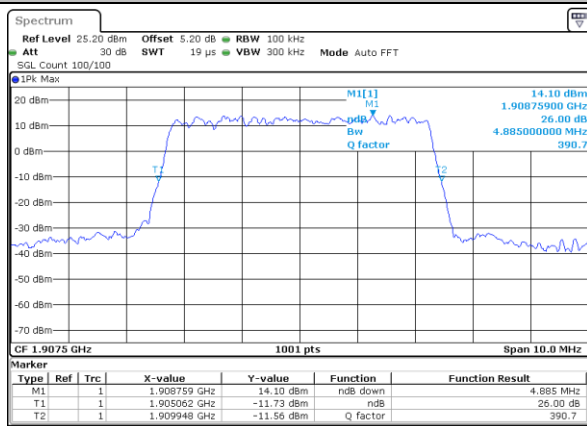
Middle Channel / 5MHz / QPSK



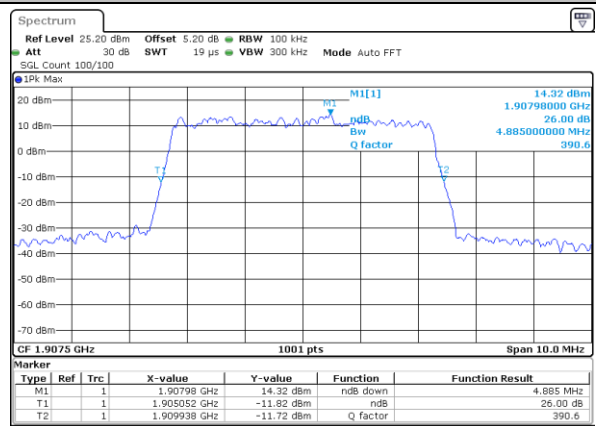
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



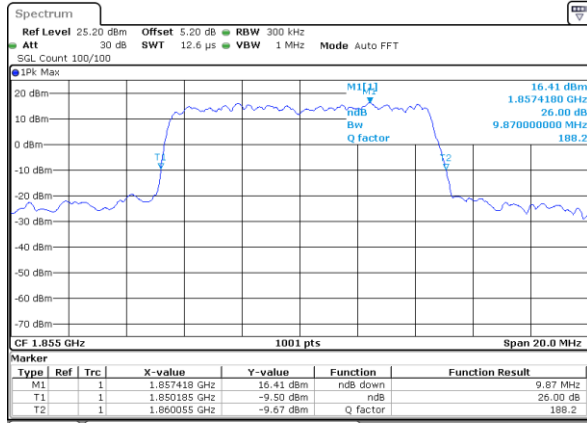
Highest Channel / 5MHz / 16QAM



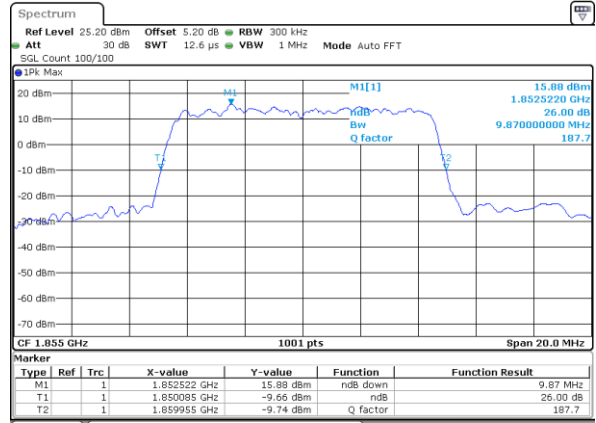


LTE Band 2

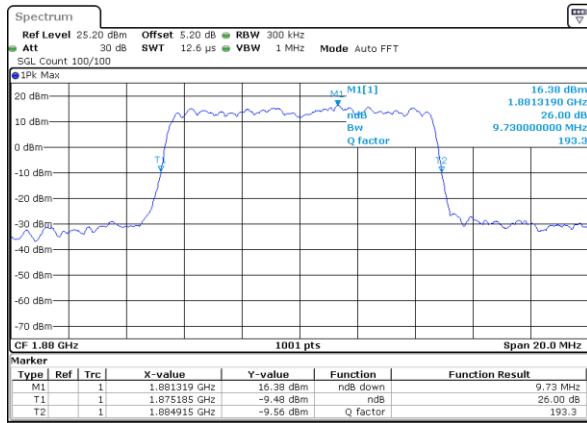
Lowest Channel / 10MHz / QPSK



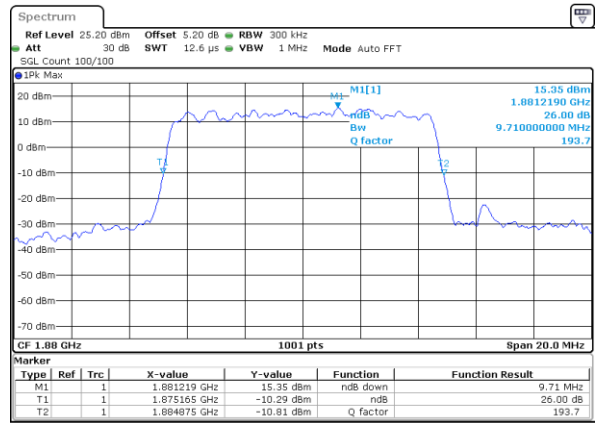
Lowest Channel / 10MHz / 16QAM



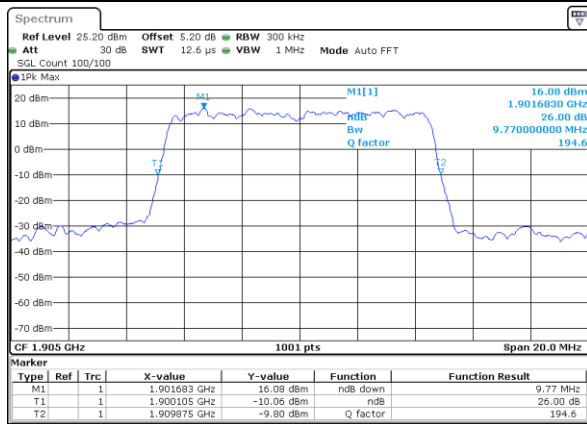
Middle Channel / 10MHz / QPSK



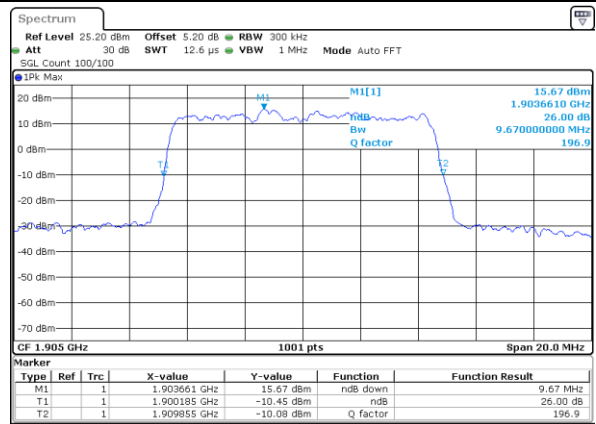
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



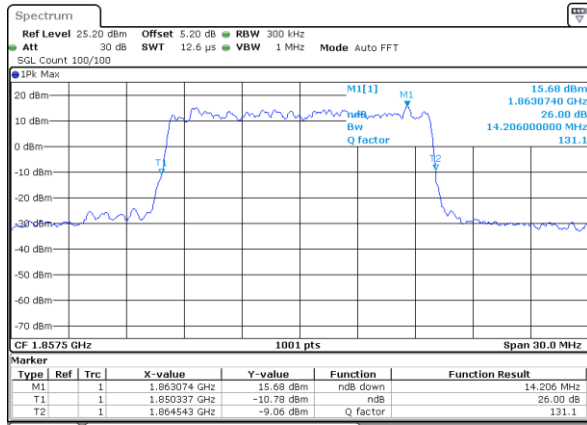
Highest Channel / 10MHz / 16QAM



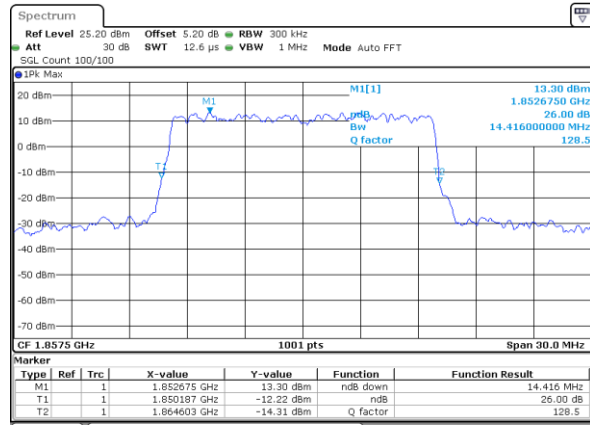


LTE Band 2

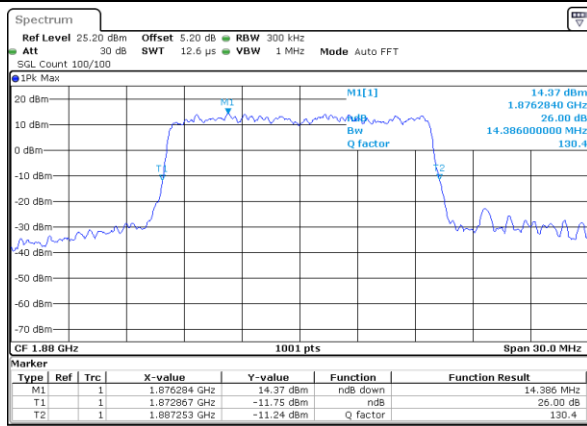
Lowest Channel / 15MHz / QPSK



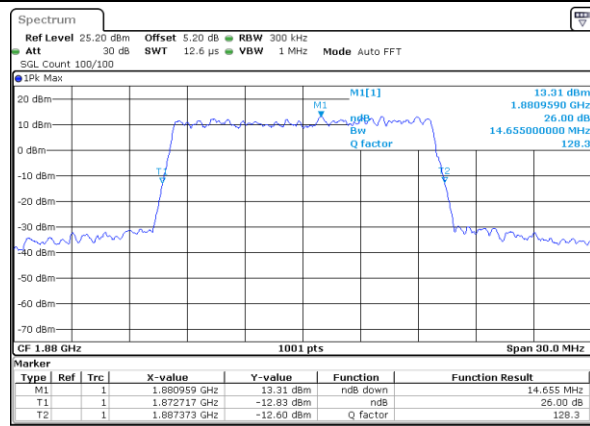
Lowest Channel / 15MHz / 16QAM



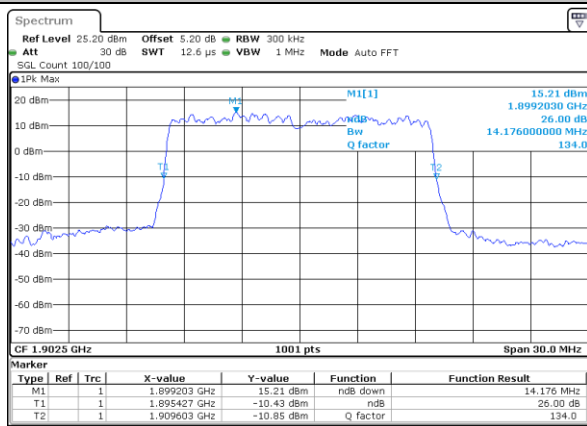
Middle Channel / 15MHz / QPSK



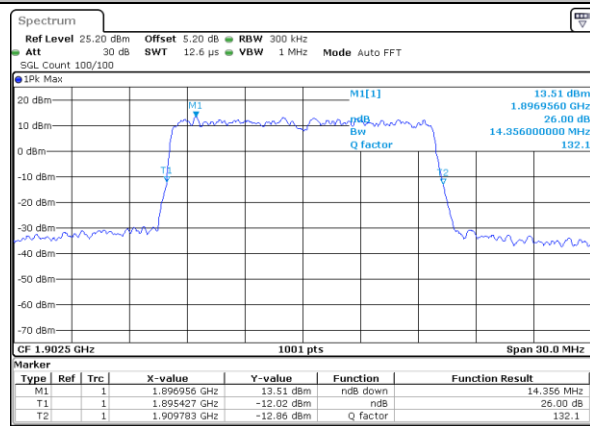
Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



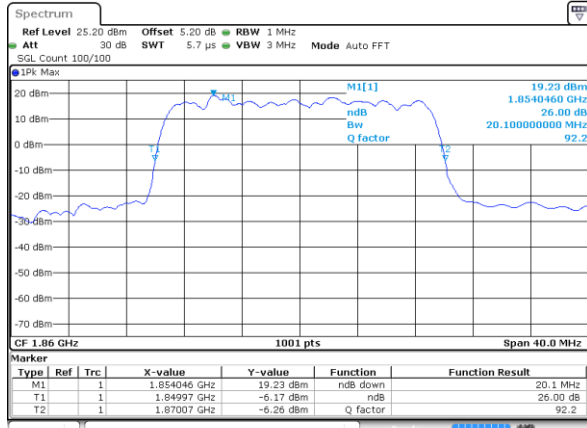
Highest Channel / 15MHz / 16QAM





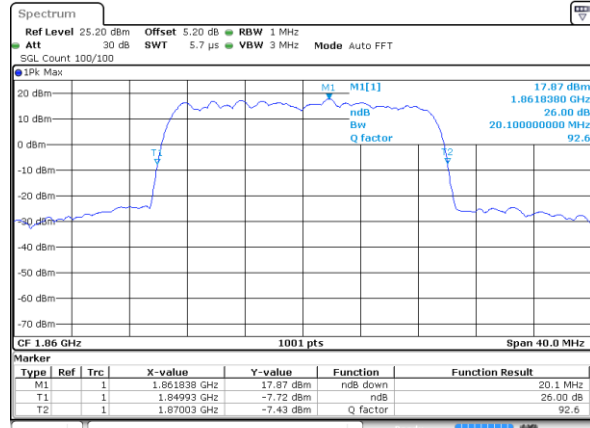
LTE Band 2

Lowest Channel / 20MHz / QPSK



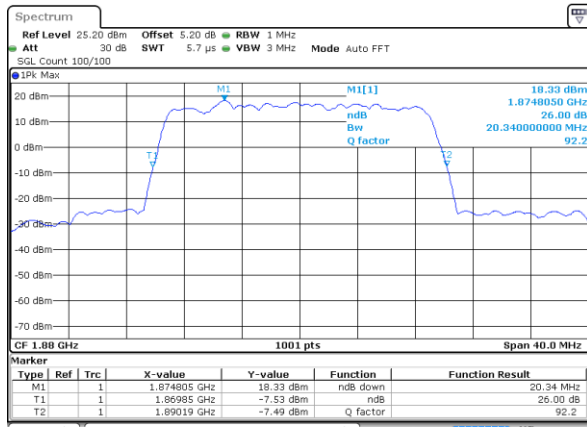
Date: 7 AUG 2020 12:28:38

Lowest Channel / 20MHz / 16QAM



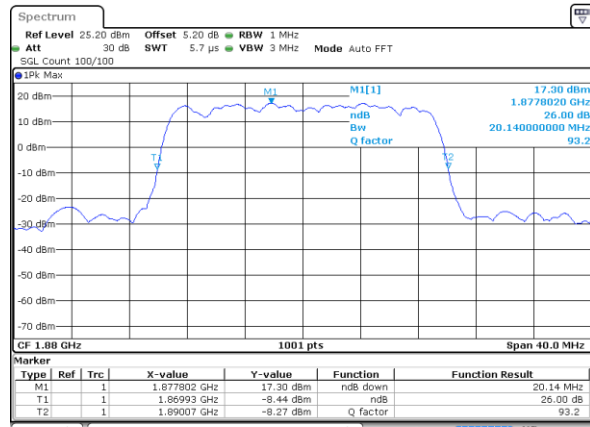
Date: 7 AUG 2020 12:28:48

Middle Channel / 20MHz / QPSK



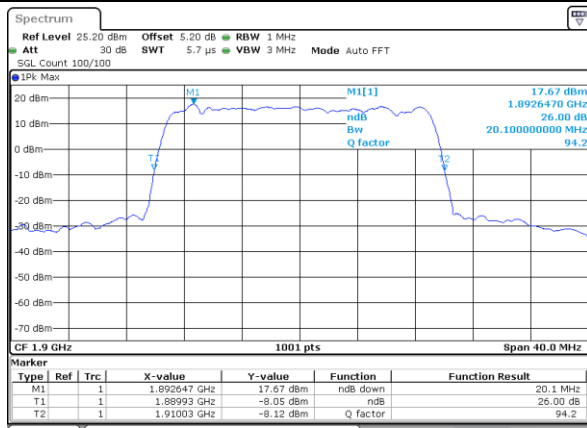
Date: 7 AUG 2020 12:35:38

Middle Channel / 20MHz / 16QAM



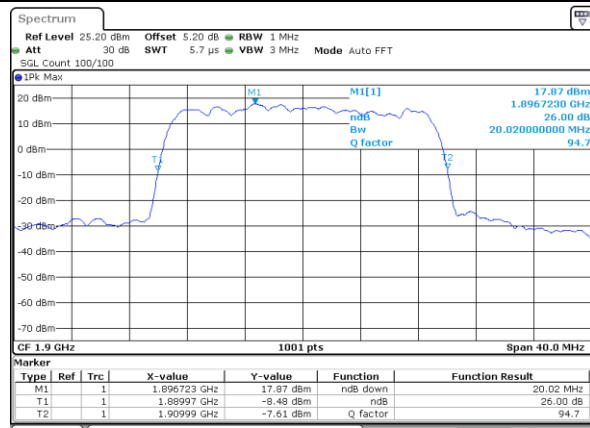
Date: 7 AUG 2020 12:35:49

Highest Channel / 20MHz / QPSK



Date: 7 AUG 2020 12:38:08

Highest Channel / 20MHz / 16QAM

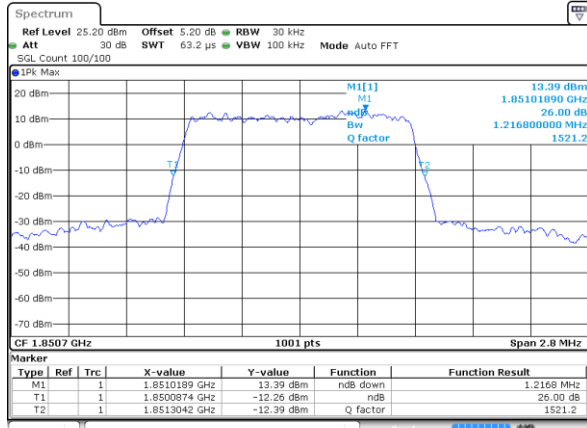


Date: 7 AUG 2020 12:38:18



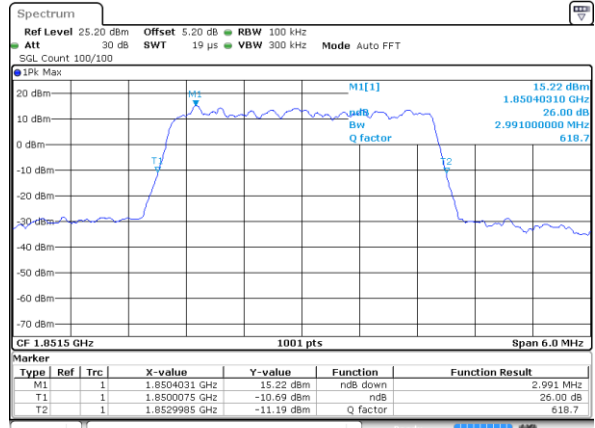
LTE Band 2

Lowest Channel / 1.4MHz / 64QAM



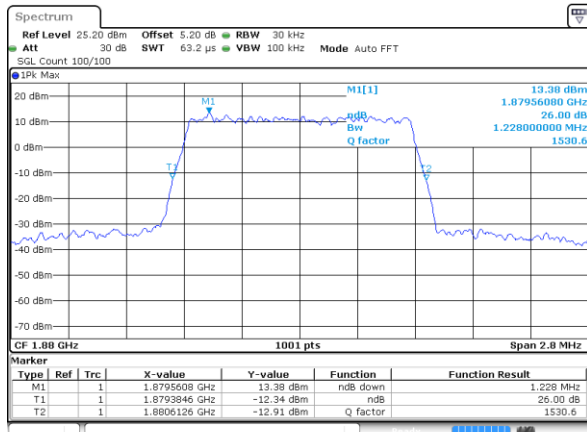
Date: 7 AUG 2020 12:47:48

Lowest Channel / 3MHz / 64QAM



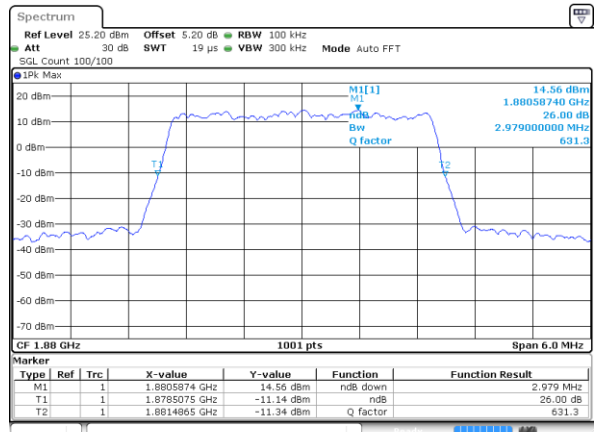
Date: 7 AUG 2020 12:48:18

Middle Channel / 1.4MHz / 64QAM



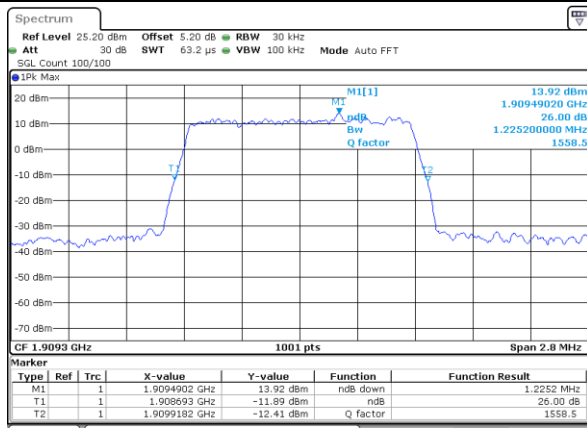
Date: 7 AUG 2020 12:47:58

Middle Channel / 3MHz / 64QAM



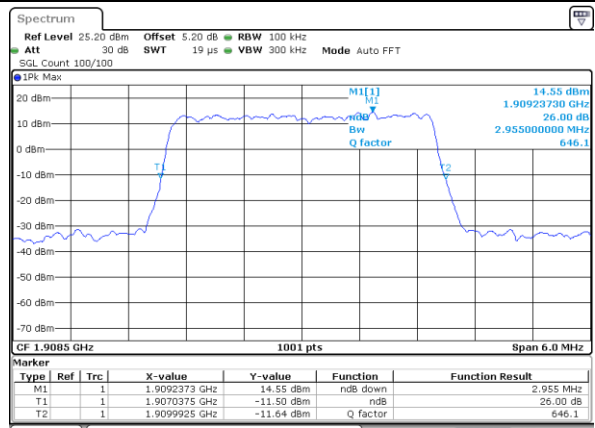
Date: 7 AUG 2020 12:48:28

Highest Channel / 1.4MHz / 64QAM



Date: 7 AUG 2020 12:48:08

Highest Channel / 3MHz / 64QAM

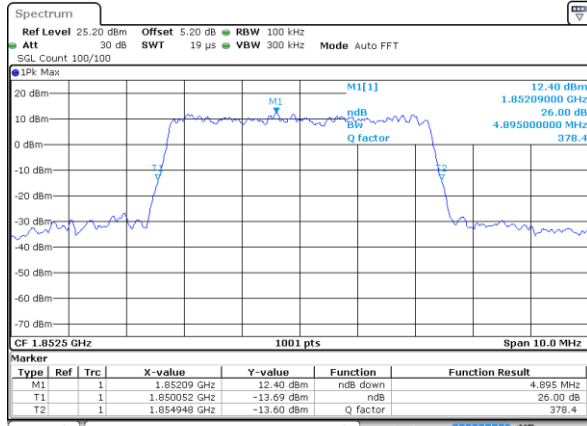


Date: 7 AUG 2020 12:48:38



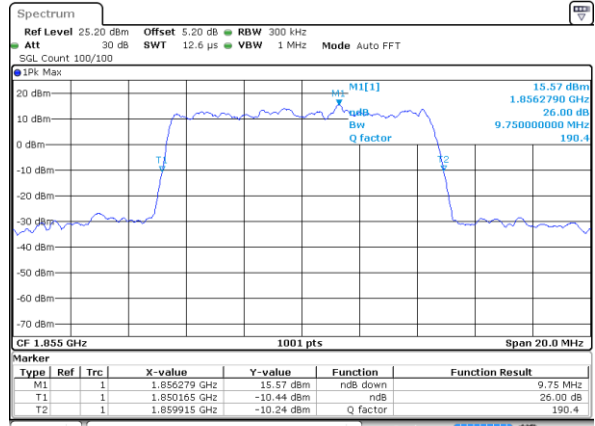
LTE Band 2

Lowest Channel / 5MHz / 64QAM



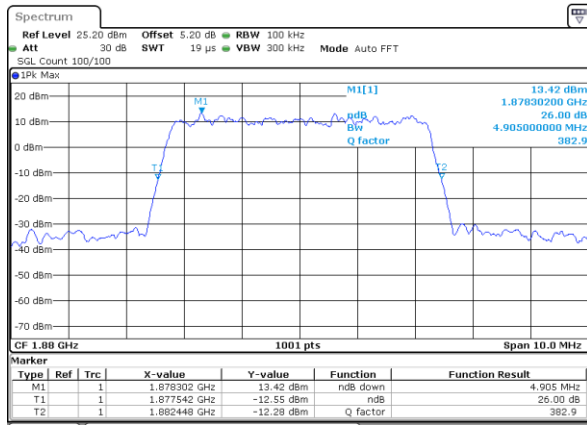
Date: 7 AUG 2020 12:48:48

Lowest Channel / 10MHz / 64QAM



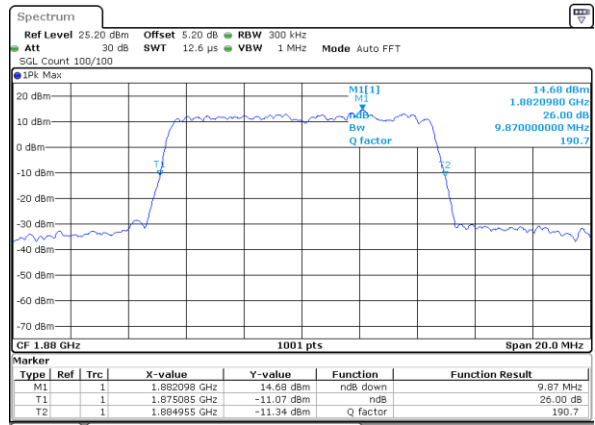
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Middle Channel / 5MHz / 64QAM



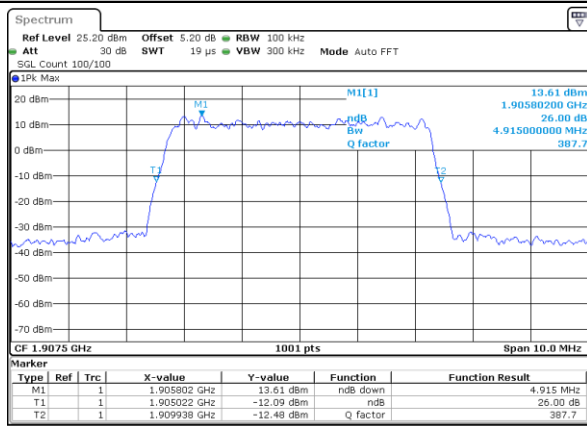
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Middle Channel / 10MHz / 64QAM



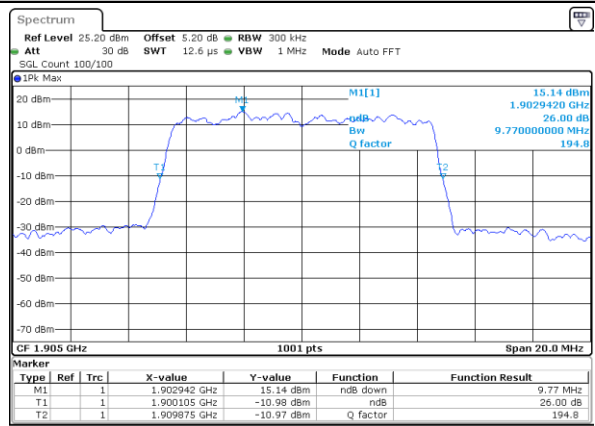
Date: 7 AUG 2020 12:49:28

Highest Channel / 5MHz / 64QAM



Date: 7 AUG 2020 12:49:08

Highest Channel / 10MHz / 64QAM

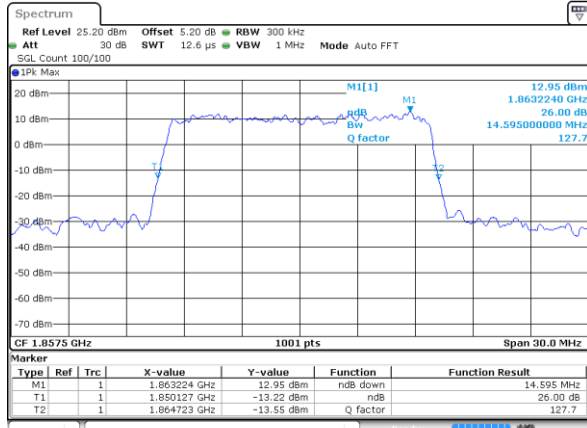


Date: 7 AUG 2020 12:49:38



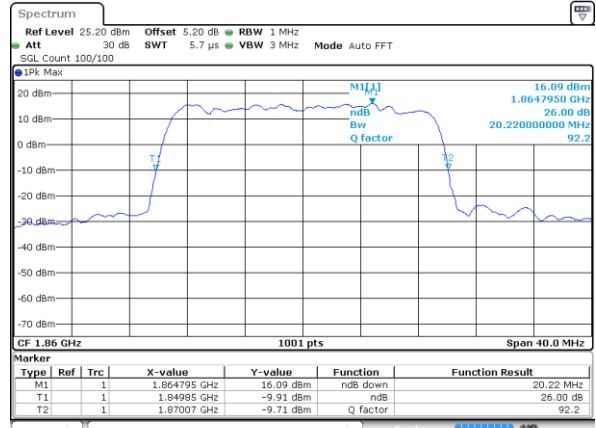
LTE Band 2

Lowest Channel / 15MHz / 64QAM



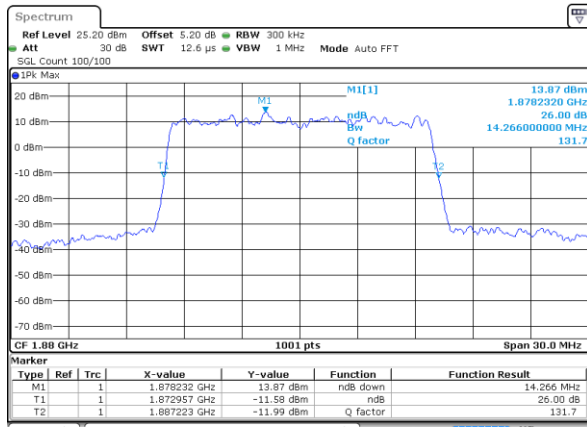
Date: 7 AUG 2020 12:49:48

Lowest Channel / 20MHz / 64QAM



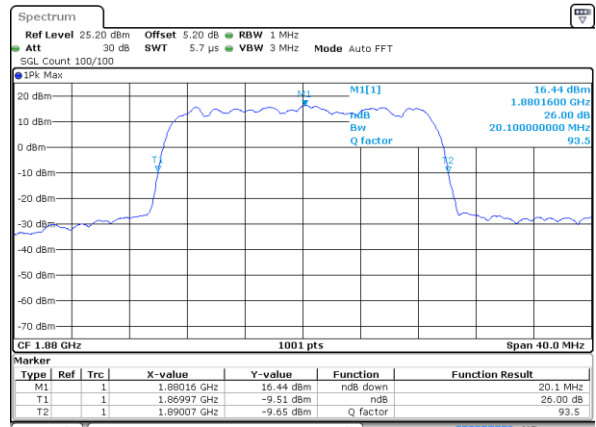
Date: 7 AUG 2020 12:50:18

Middle Channel / 15MHz / 64QAM



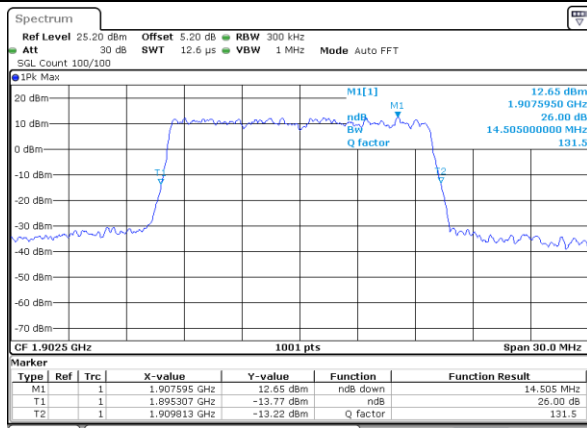
Date: 7 AUG 2020 12:49:58

Middle Channel / 20MHz / 64QAM



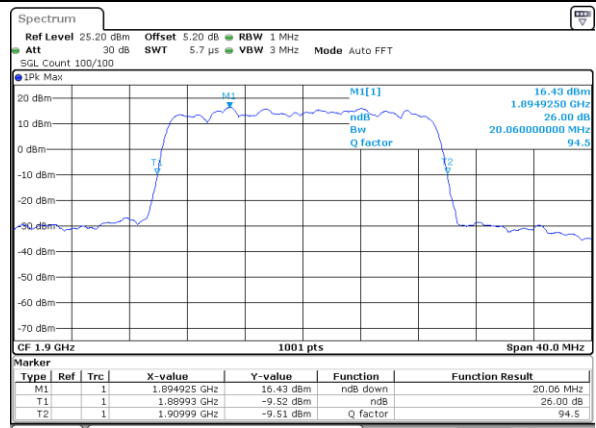
Date: 7 AUG 2020 12:50:28

Highest Channel / 15MHz / 64QAM



Date: 7 AUG 2020 12:50:08

Highest Channel / 20MHz / 64QAM



Date: 7 AUG 2020 12:50:38

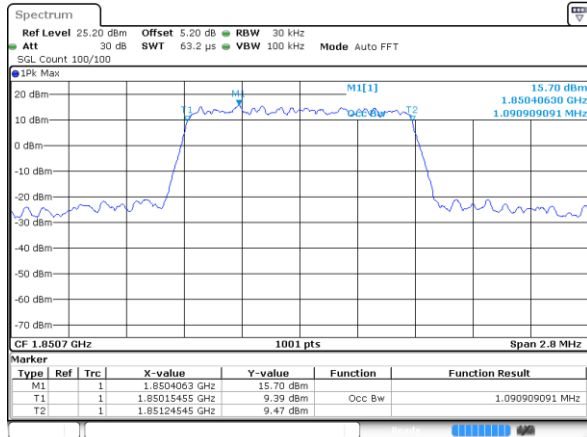
**Occupied Bandwidth**

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	2.72	2.71	4.50	4.49	8.93	9.01	13.43	13.46	18.26	18.46
Middle CH	1.09	1.08	2.72	2.72	4.51	4.48	9.03	8.97	13.46	13.46	18.30	18.38
Highest CH	1.09	1.09	2.73	2.70	4.48	4.49	8.99	8.97	13.52	13.43	18.42	18.18
Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.71	-	4.50	-	9.11	-	13.37	-	18.22	-
Middle CH	1.09	-	2.73	-	4.50	-	9.01	-	13.43	-	18.26	-
Highest CH	1.09	-	2.72	-	4.51	-	8.99	-	13.43	-	18.30	-

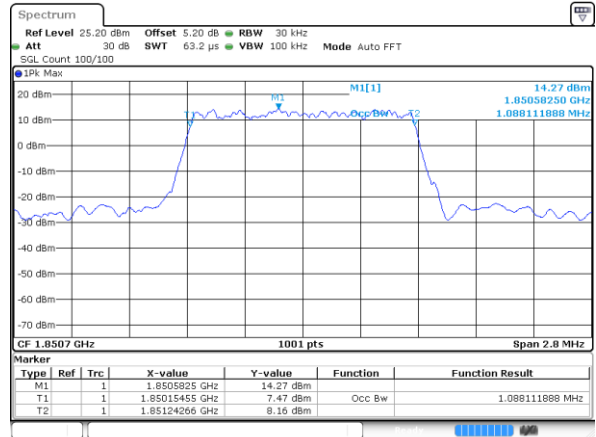


LTE Band 2

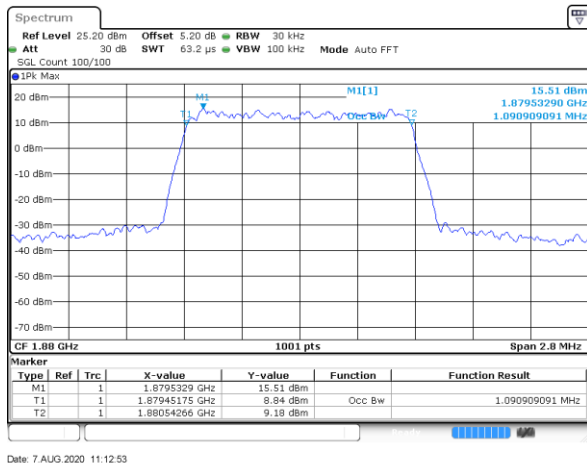
Lowest Channel / 1.4MHz / QPSK



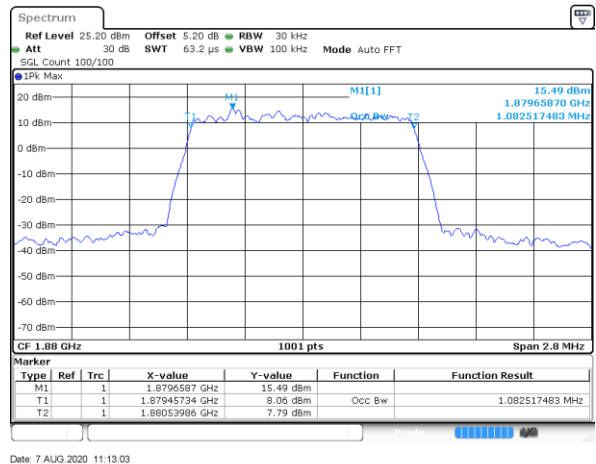
Lowest Channel / 1.4MHz / 16QAM



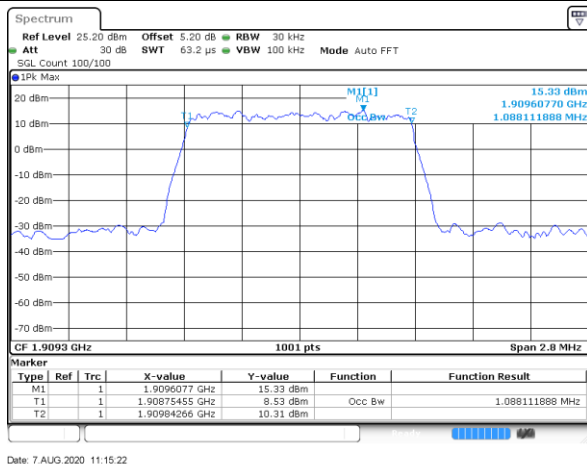
Middle Channel / 1.4MHz / QPSK



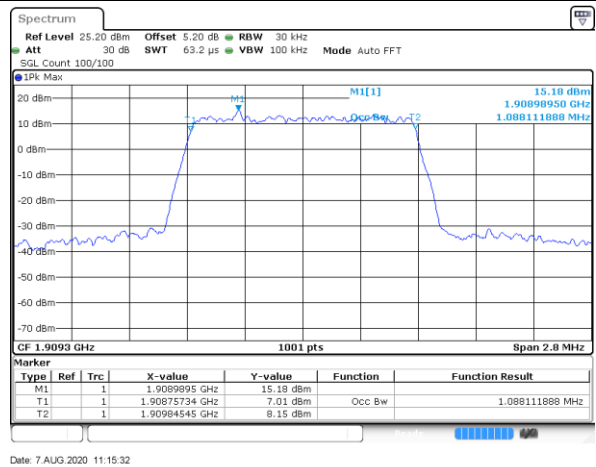
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



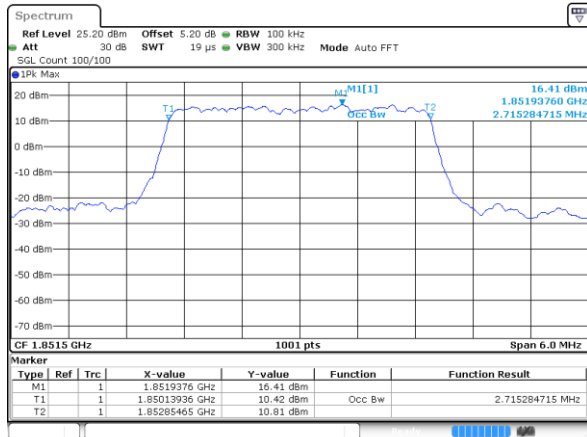
Highest Channel / 1.4MHz / 16QAM





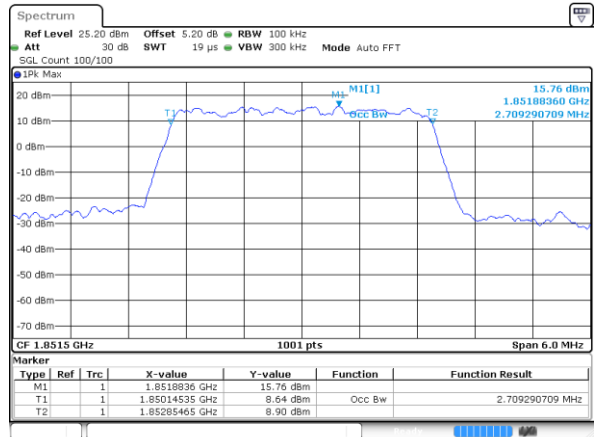
LTE Band 2

Lowest Channel / 3MHz / QPSK



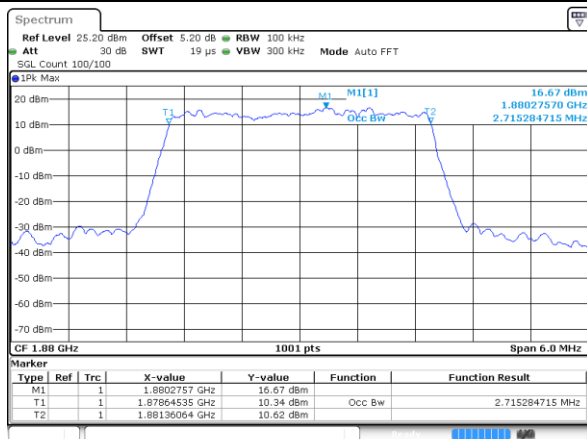
Date: 7 AUG 2020 11:22:22

Lowest Channel / 3MHz / 16QAM



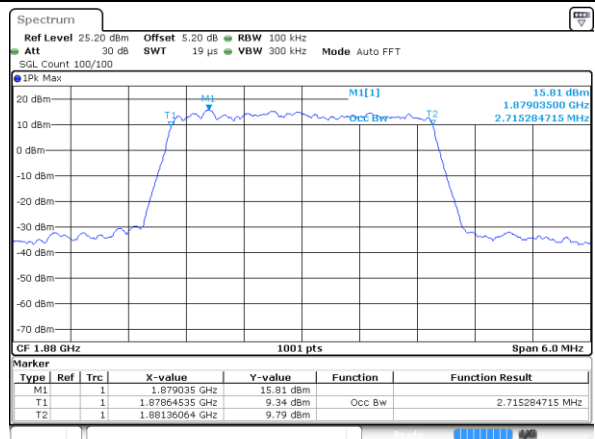
Date: 7 AUG 2020 11:22:32

Middle Channel / 3MHz / QPSK



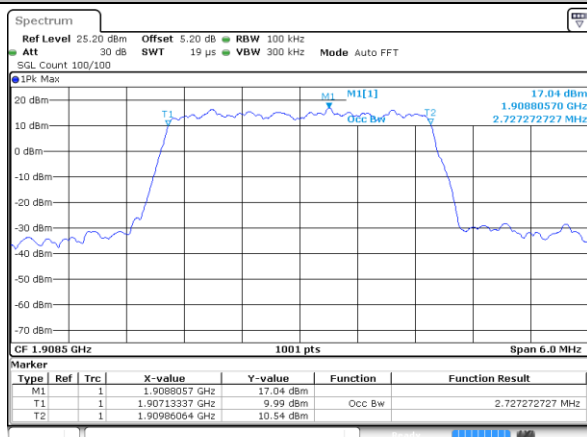
Date: 7 AUG 2020 11:29:22

Middle Channel / 3MHz / 16QAM



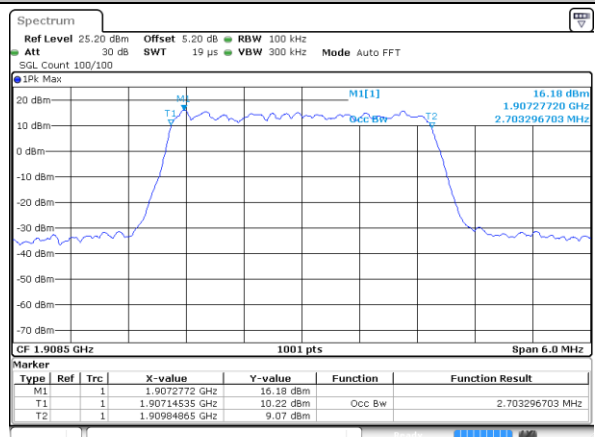
Date: 7 AUG 2020 11:29:32

Highest Channel / 3MHz / QPSK



Date: 7 AUG 2020 11:31:52

Highest Channel / 3MHz / 16QAM

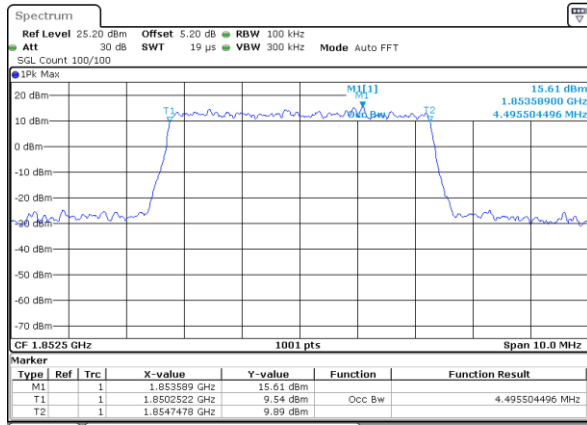


Date: 7 AUG 2020 11:32:02



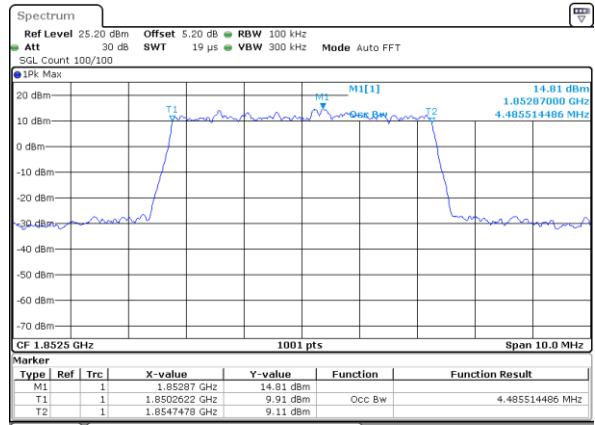
LTE Band 2

Lowest Channel / 5MHz / QPSK



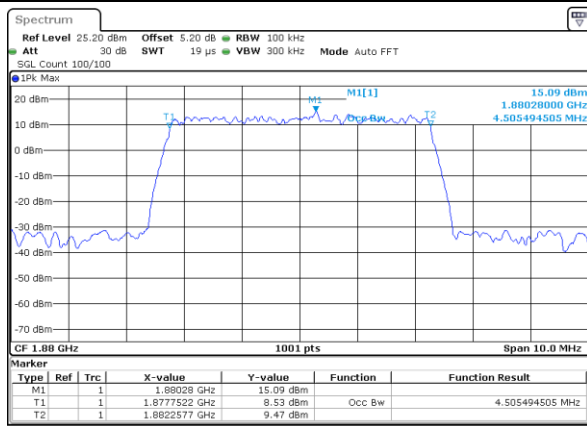
Date: 7 AUG 2020 11:38:52

Lowest Channel / 5MHz / 16QAM



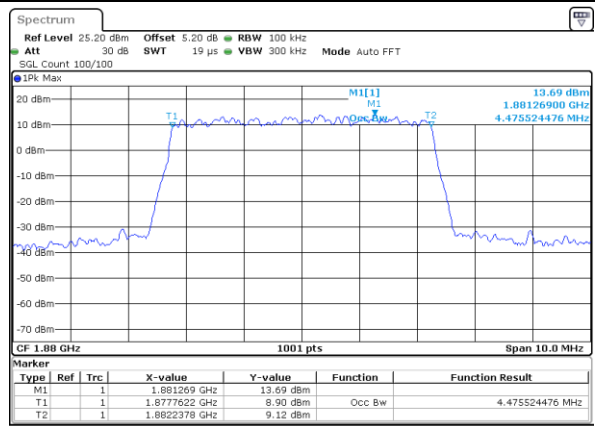
Date: 7 AUG 2020 11:39:02

Middle Channel / 5MHz / QPSK



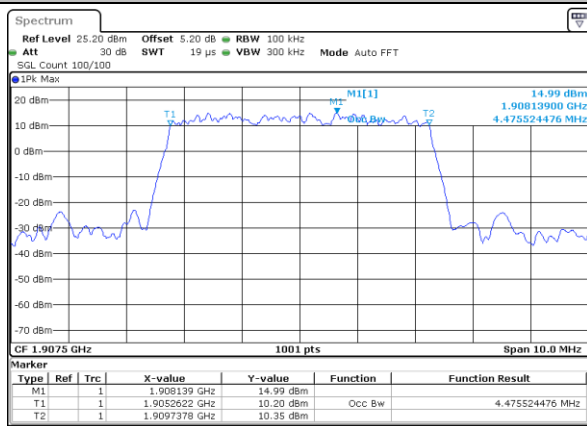
Date: 7 AUG 2020 11:45:51

Middle Channel / 5MHz / 16QAM



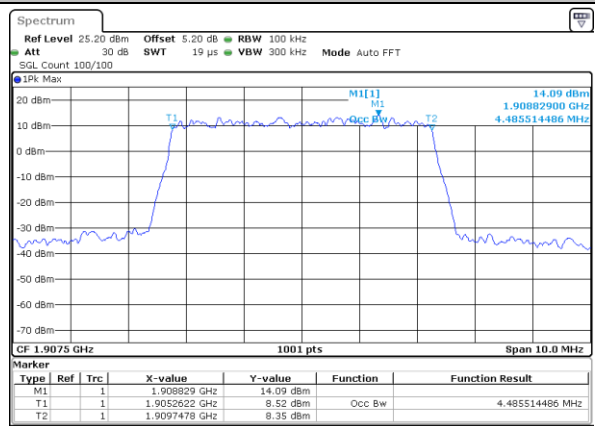
Date: 7 AUG 2020 11:46:01

Highest Channel / 5MHz / QPSK



Date: 7 AUG 2020 11:48:21

Highest Channel / 5MHz / 16QAM

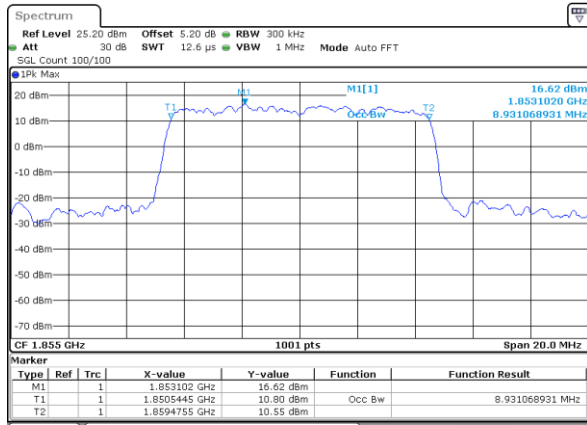


Date: 7 AUG 2020 11:48:31



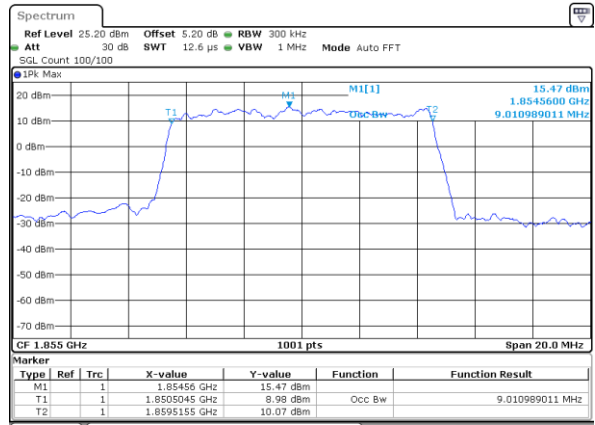
LTE Band 2

Lowest Channel / 10MHz / QPSK



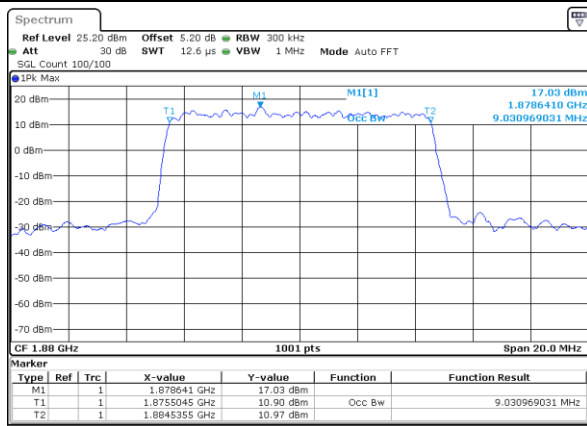
Date: 7 AUG 2020 11:55:21

Lowest Channel / 10MHz / 16QAM



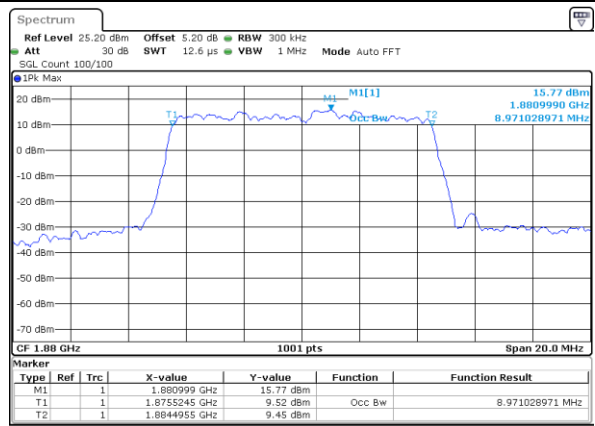
Date: 7 AUG 2020 11:55:31

Middle Channel / 10MHz / QPSK



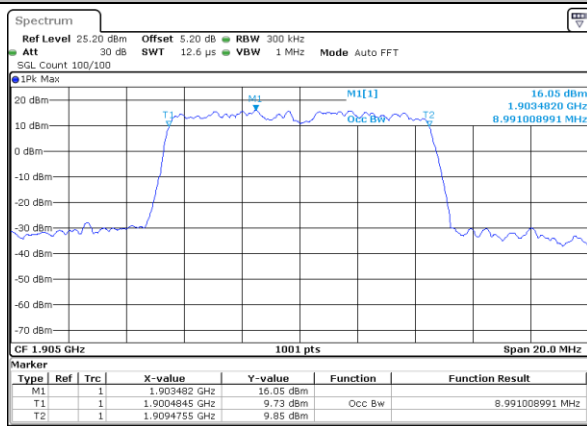
Date: 7 AUG 2020 12:02:21

Middle Channel / 10MHz / 16QAM



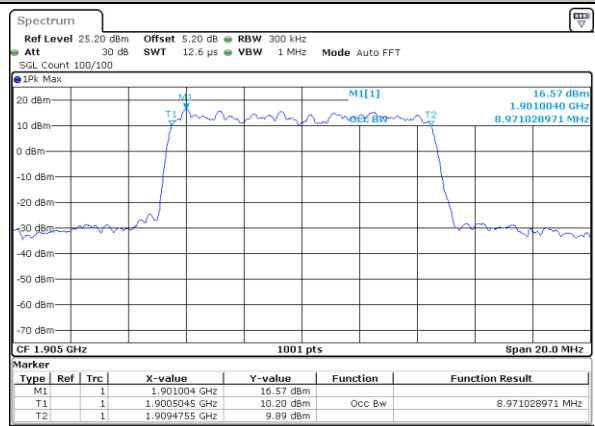
Date: 7 AUG 2020 12:02:31

Highest Channel / 10MHz / QPSK



Date: 7 AUG 2020 12:04:50

Highest Channel / 10MHz / 16QAM

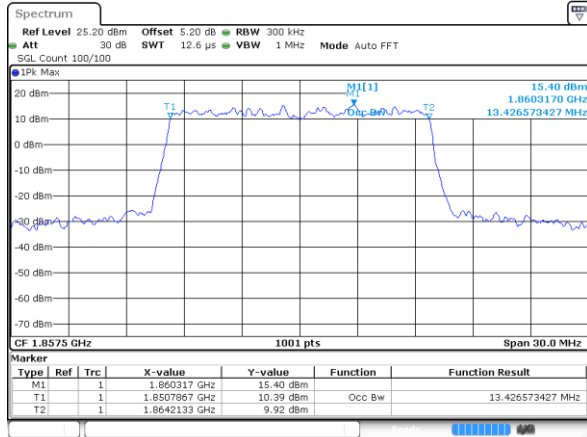


Date: 7 AUG 2020 12:05:00

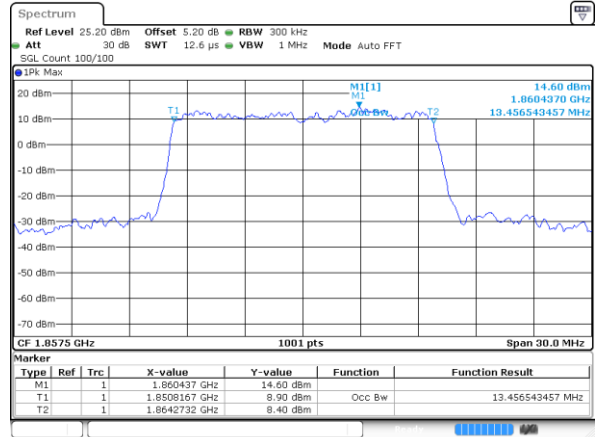


LTE Band 2

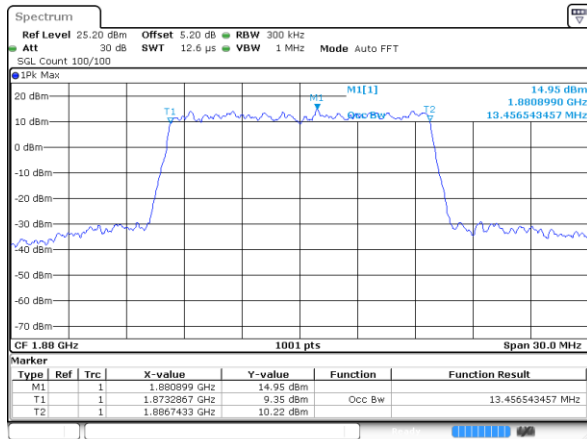
Lowest Channel / 15MHz / QPSK



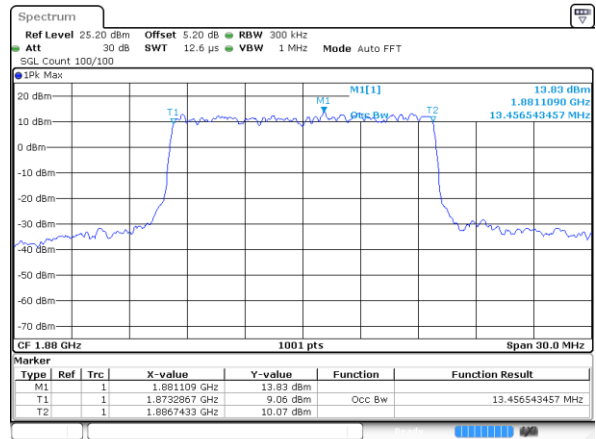
Lowest Channel / 15MHz / 16QAM



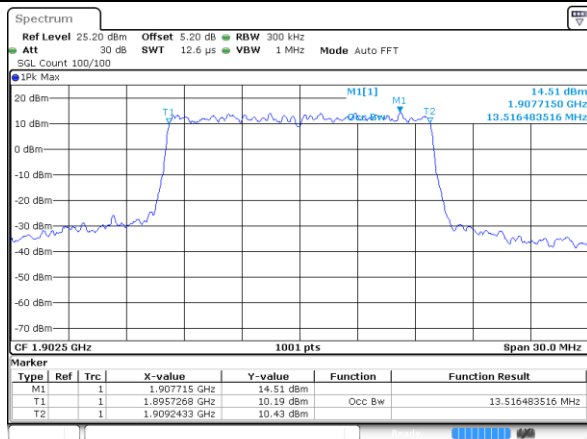
Middle Channel / 15MHz / QPSK



Middle Channel / 15MHz / 16QAM



Highest Channel / 15MHz / QPSK



Highest Channel / 15MHz / 16QAM

