



FCC RF Test Report

APPLICANT : Xiaomi Communications Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : POCO
MODEL NAME : 22011211G
FCC ID : 2AFZZ211G
STANDARD : 47 CFR Part 2, 22(H), 24(E), 27(H), 27(L)
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S) : Jan. 12, 2022 ~ Feb. 01, 2022

We, Sporton International Inc. (ShenZhen), 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 Inc. (ShenZhen), the test report shall not be reproduced except in full.

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Reviewed by: Derreck Chen / Supervisor

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG1D3005B	Rev. 01	Initial issue of report	Feb. 16, 2022

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	-	Report Only	-
	§22.913(a)(5)	Effective Radiated Power (Band 5) (Band 26)	ERP < 7 Watt	PASS	-
	§27.50(c)(10)	Effective Radiated Power (Band 12) (Band 17)	ERP < 3 Watt		-
	§24.232(c)	Equivalent Isotropic Radiated Power (Band 2)	EIRP < 2Watt		-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4)	EIRP < 1Watt		-
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	-	Report Only	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 17) (Band 26)	< 43+10log10(P[Watts])	PASS	-
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 17) (Band 26)	< 43+10log10(P[Watts])	PASS	-
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	< 2.5 ppm for Part 22	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§2.1053 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 17) (Band 26)	< 43+10log ₁₀ (P[Watts])	PASS	Under limit 35.63 dB at 2505.450 MHz

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	POCO
Model Name	22011211G
FCC ID	2AFZZ211G
IMEI Code	Conducted : 860000050060420 Radiation : 860000050055440/860000050055457
HW Version	P2
SW Version	MIUI 13
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 17 : 704 MHz ~ 716 MHz LTE Band 26 : 824 MHz ~ 849 MHz
Rx Frequency	LTE Band 2 : 1930 MHz ~ 1990 MHz LTE Band 4 : 2110 MHz ~ 2155 MHz LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 17 : 734 MHz ~ 746 MHz LTE Band 26 : 869 MHz ~ 894 MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz
Maximum Output Power to	<Ant. 0>

Antenna	LTE Band 26 : 25.21 dBm <Ant. 1> LTE Band 12 : 25.18 dBm <Ant. 2> LTE Band 4 : 25.32 dBm <Ant. 3> LTE Band 2 : 23.96 dBm
Antenna Gain	<Ant. 0> LTE Band 4 : -2.25 dBi LTE Band 5 : -3.88 dBi LTE Band 12 : -6.11 dBi LTE Band 17 : -6.11 dBi LTE Band 26 : -3.88 dBi <Ant. 1> LTE Band 5 : -4.54 dBi LTE Band 12 : -3.07 dBi LTE Band 17 : -3.07 dBi LTE Band 26 : -4.54 dBi <Ant. 2> LTE Band 2 : -1.24 dBi LTE Band 4 : -1.01 dBi <Ant. 3> LTE Band 2 : -1.08 dBi LTE Band 4 : -1.41 dBi <Ant. 5> LTE Band 4 : -2.17 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM

Remark:

The maximum ERP/EIRP is calculated from max output power and max antenna gain, so only the maximum ERP/EIRP (Antenna 0) for LTE 26, Antenna 1 for LTE Band12, Antenna2 for LTE Band 4 and Antenna3 for LTE Band 2 are shown in the report.

1.5 Modification of EUT

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

1.6 Maximum ERP/EIRP Power and Emission Designator

LTE Band 2		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1850.7 ~ 1909.3	0.1879	1M09G7D	0.1574	1M10W7D
3	1851.5 ~ 1908.5	0.1910	2M72G7D	0.1574	2M73W7D
5	1852.5 ~ 1907.5	0.1923	4M49G7D	0.1596	4M51W7D
10	1855.0 ~ 1905.0	0.1936	9M07G7D	0.1600	9M07W7D
15	1857.5 ~ 1902.5	0.1932	13M4G7D	0.1603	13M5W7D
20	1860.0 ~ 1900.0	0.1941	17M9G7D	0.1614	17M9W7D



LTE Band 4		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
1.4	1710.7 ~ 1754.3	0.2642	1M10G7D	0.2208	1M10W7D
3	1711.5 ~ 1753.5	0.2642	2M74G7D	0.2118	2M73W7D
5	1712.5 ~ 1752.5	0.2679	4M50G7D	0.2280	4M50W7D
10	1715.0 ~ 1750.0	0.2685	9M13G7D	0.2270	9M05W7D
15	1717.5 ~ 1747.5	0.2606	13M5G7D	0.2259	13M5W7D
20	1720.0 ~ 1745.0	0.2698	17M9G7D	0.2109	17M9W7D
LTE Band 5		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
1.4	824.7 ~ 848.3	0.0815	1M10G7D	0.0685	1M10W7D
3	825.5 ~ 847.5	0.0793	2M72G7D	0.0671	2M72W7D
5	826.5 ~ 846.5	0.0760	4M50G7D	0.0665	4M51W7D
10	829.0 ~ 844.0	0.0760	9M05G7D	0.0668	9M05W7D
LTE Band 12		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
1.4	699.7 ~ 715.3	0.0959	1M09G7D	0.0800	1M10W7D
3	700.5 ~ 714.5	0.0964	2M73G7D	0.0804	2M73W7D
5	701.5 ~ 713.5	0.0977	4M51G7D	0.0805	4M50W7D
10	704.0 ~ 711.0	0.0991	9M07G7D	0.0828	9M03W7D
LTE Band 17		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
5	706.5 ~ 713.5	0.0977	4M51G7D	0.0805	4M50W7D
10	709.0 ~ 711.0	0.0991	9M07G7D	0.0828	9M03W7D
LTE Band 26		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum ERP(W)	Emission Designator (99%OBW)	Maximum ERP(W)	Emission Designator (99%OBW)
1.4	824.7 ~ 848.3	0.0815	1M10G7D	0.0685	1M10W7D
3	825.5 ~ 847.5	0.0793	2M72G7D	0.0671	2M72W7D
5	826.5 ~ 846.5	0.0760	4M50G7D	0.0665	4M51W7D
10	829.0 ~ 844.0	0.0760	9M05G7D	0.0668	9M05W7D
15	831.5 ~ 841.5	0.0828	13M4G7D	0.0675	13M5W7D



CH26765	821.5	0.0822	13M4G7D	0.0643	13M5W7D
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Note:

1. LTE Band 26 overlaps the entire frequency range of LTE Band 5. Therefore, the test results provided in this report covers Band 5 and the portion of Band 26 subject to Part 22.
2. LTE Band 12 overlaps the entire frequency range of LTE Band 17. Therefore, the test results provided in this report covers Band 12 as well as Band 17.

1.7 Testing Location

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

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

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-SZ	CN1256	421272

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH04-SZ	AUDIX	E3	6.2009-8-24a



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(H), 27(L)
- ♦ 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

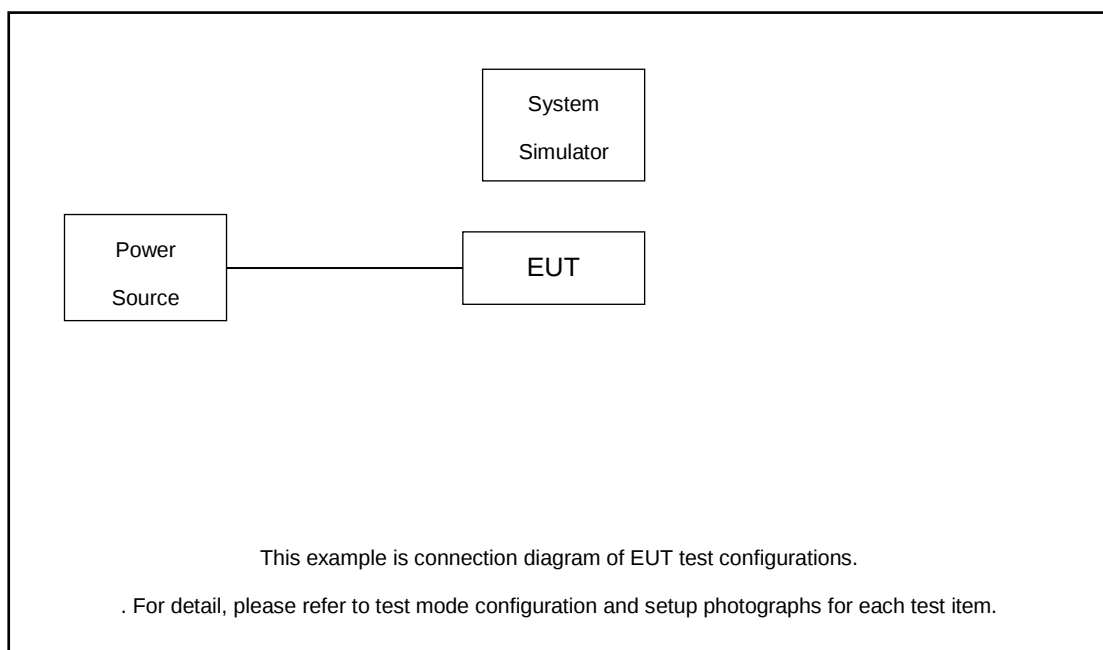
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas License Digital Systems v03r01 with maximum output power.

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	16 QAM	64 QAM	256 QAM	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	v
	4	v	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	v
	12	v	v	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	17	-	-	v	v	-	-	v	v	v	v	v	v	v	v	v	v
	26	v	v	v	v	v	-	v	v	v	v	v	v	v	v	v	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
	12				v	-	-	v	v	v		v		v	v	v	v
	26				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
	12	v	v	v	v	-	-	v	v	v				v	v	v	v
	26	v	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
	12	v	v	v	v	-	-	v	v	v		v		v	v		v
	26	v	v	v	v	v	-	v	v	v		v		v	v		v
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
	12	v	v	v	v	-	-	v	v	v		v			v	v	v
	26	v	v	v	v	v	-	v	v	v		v			v	v	v
Frequency Stability	2				v			v						v		v	
	4				v			v						v		v	
	12				v	-	-	v						v		v	
	26				v		-	v						v		v	

Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	64 QAM	256 QAM	1	Half	Full	L	M	H
E.R.P / E.I.R.P	2	v	v	v	v	v	v	v	v	v	v	v			v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v			v	v	v
	12	v	v	v	v	-	-	v	v	v	v	v			v	v	v
	26	v	v	v	v	v	-	v	v	v	v	v			v	v	v
Radiated Spurious Emission	2	Worst Case														v	
	4	Worst Case														v	
	12	Worst Case														v	
	26	Worst Case														v	
Note	1. The mark “v ” means that this configuration is chosen for testing 2. The mark “-“ means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. LTE Band 26 overlaps the entire frequency range of LTE Band 5. Therefore, the test results provided in this report covers Band 5 and the portion of Band 26 subject to Part 22. 5. LTE Band 12 overlaps the entire frequency range of LTE Band 17. Therefore, the test results provided in this report covers Band 12 as well as Band 17.																

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

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

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

Example :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.5 + 10 = 14.5 \text{ (dB)}\end{aligned}$$

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



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

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

3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 Conducted Output Power



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



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power and ERP/EIRP

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

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

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

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

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

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 (g)

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

27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ 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.

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. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.

Example:

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

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

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

9. When using the integration method, the starting frequency of the integration shall be centered at one-half of the RBW away from the band edge.

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.

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. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is derived from $43 + 10\log(P)$ 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.

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.

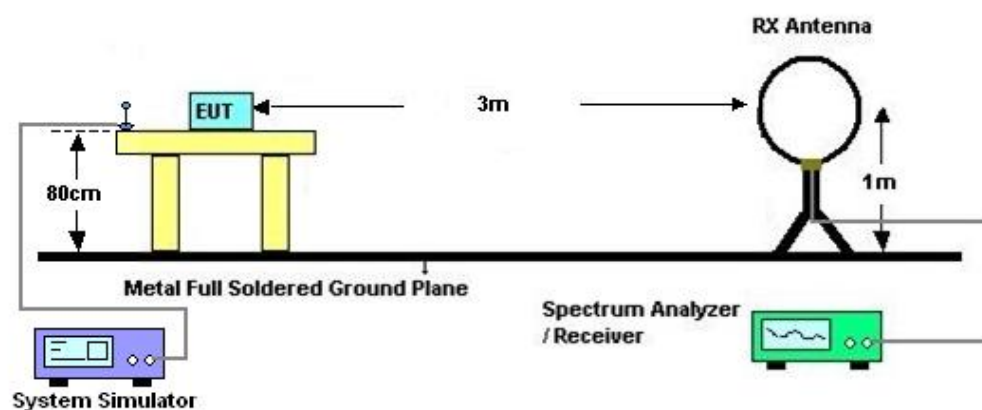
4 Radiated Test Items

4.1 Measuring Instruments

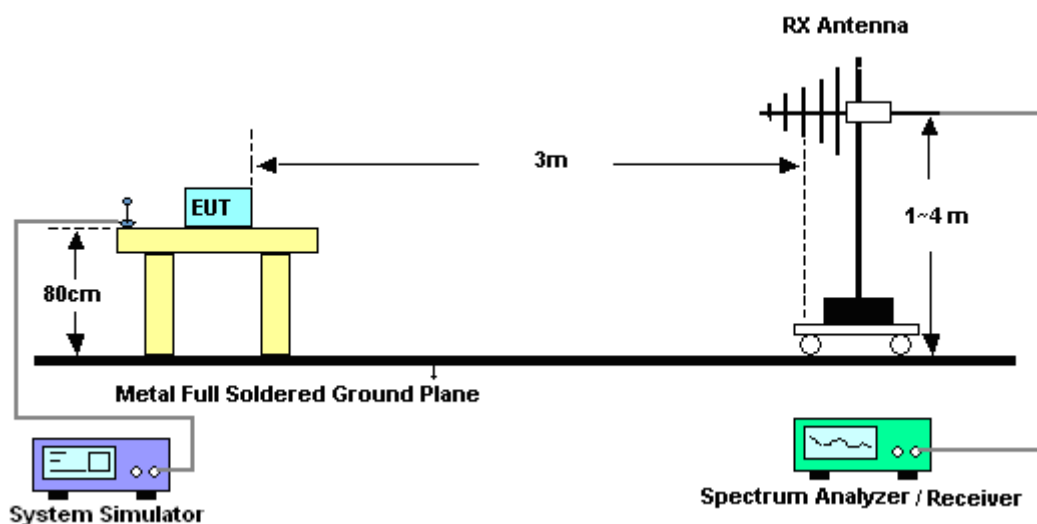
See list of measuring instruments of this test report.

4.2 Test Setup

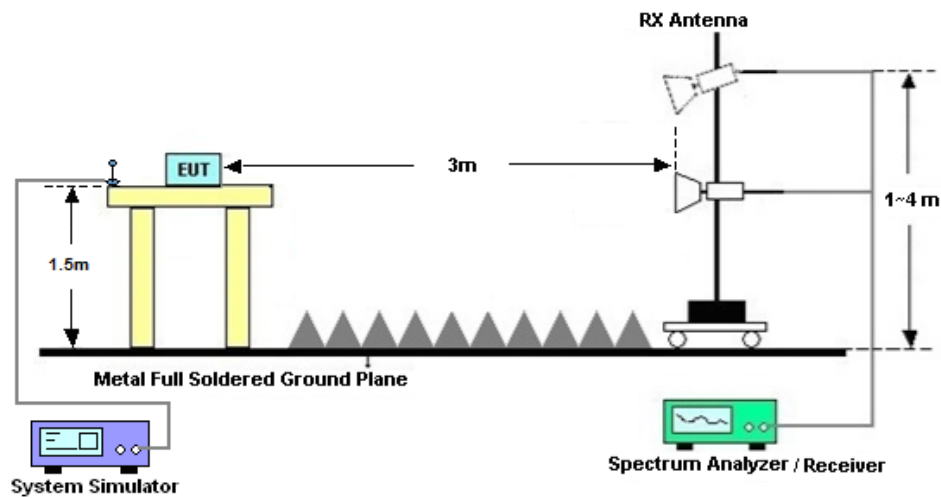
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

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.

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

4.4.2 Test Procedures

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



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 08, 2021	Jan. 12, 2022~Jan. 13, 2022	Apr. 07, 2022	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2021	Jan. 12, 2022~Jan. 13, 2022	Dec. 24, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 14, 2021	Jan. 12, 2022~Jan. 13, 2022	Jul. 13, 2022	Conducted (TH01-SZ)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 22, 2021	Feb. 01, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 20, 2021	Feb. 01, 2022	Jul. 19, 2022	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2020	Feb. 01, 2022	Jun. 21, 2022	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Oct. 22, 2021	Feb. 01, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1474	1GHz~18GHz	Jul. 15, 2021	Feb. 01, 2022	Jul. 14, 2022	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	9170#679	15GHz~40GHz	Jul. 25, 2021	Feb. 01, 2022	Jul. 24, 2022	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 22, 2021	Feb. 01, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 22, 2021	Feb. 01, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 20, 2021	Feb. 01, 2022	Jul. 19, 2022	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY53270156	500MHz~26.5GHz	Oct. 22, 2021	Feb. 01, 2022	Oct. 21, 2022	Radiation (03CH04-SZ)
AC Power Source	Chroma	61601	N/A	N/A	NCR	Feb. 01, 2022	NCR	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Feb. 01, 2022	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Feb. 01, 2022	NCR	Radiation (03CH04-SZ)

NCR: No Calibration Required

6 Uncertainty of Evaluation

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.8dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.1dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.9dB
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Appendix A. Test Results of Conducted Test

Test Engineer :	Sam Zheng	Temperature :	24~26°C
		Relative Humidity :	50~53%

Conducted Output Power(Average power)

LTE Band 2-Ant 3						
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	23.96	23.90	23.88
20	QPSK	1	49	23.80	23.79	23.75
20	QPSK	1	99	23.76	23.72	23.69
20	QPSK	50	0	22.93	22.90	22.85
20	QPSK	50	24	22.89	22.88	22.79
20	QPSK	50	50	22.87	22.75	22.70
20	QPSK	100	0	22.87	22.86	22.76
20	16QAM	1	0	23.09	23.16	23.08
20	16QAM	1	49	23.03	23.05	23.08
20	16QAM	1	99	23.03	22.97	23.04
20	16QAM	50	0	21.93	21.83	21.87
20	16QAM	50	24	21.87	21.87	21.82
20	16QAM	50	50	21.89	21.72	21.89
20	16QAM	100	0	21.82	21.79	21.83
20	64QAM	1	0	22.08	22.01	21.93
20	64QAM	1	49	22.01	21.92	21.92
20	64QAM	1	99	21.94	21.87	21.94
20	64QAM	50	0	20.94	20.84	20.86
20	64QAM	50	24	20.88	20.84	20.84
20	64QAM	50	50	20.85	20.74	20.87
20	64QAM	100	0	20.85	20.81	20.84



20	256QAM	1	0	18.74	18.74	18.84
20	256QAM	1	49	18.77	18.82	18.82
20	256QAM	1	99	18.88	18.78	18.95
20	256QAM	50	0	18.82	18.58	18.81
20	256QAM	50	24	18.70	18.71	18.73
20	256QAM	50	50	18.78	18.63	18.85
20	256QAM	100	0	18.72	18.65	18.79
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	23.94	23.88	23.82
15	QPSK	1	37	23.86	23.82	23.69
15	QPSK	1	74	23.80	23.80	23.79
15	QPSK	36	0	22.88	22.86	22.76
15	QPSK	36	20	22.82	22.82	22.81
15	QPSK	36	39	22.79	22.71	22.84
15	QPSK	75	0	22.85	22.79	22.81
15	16QAM	1	0	23.11	23.13	23.11
15	16QAM	1	37	23.11	23.00	23.02
15	16QAM	1	74	23.13	22.98	23.00
15	16QAM	36	0	21.84	21.86	21.75
15	16QAM	36	20	21.85	21.81	21.80
15	16QAM	36	39	21.87	21.71	21.81
15	16QAM	75	0	21.85	21.78	21.80
15	64QAM	1	0	22.04	22.02	22.04
15	64QAM	1	37	21.95	21.95	21.93
15	64QAM	1	74	21.95	21.90	21.92
15	64QAM	36	0	20.89	20.86	20.82
15	64QAM	36	20	20.84	20.87	20.82
15	64QAM	36	39	20.87	20.73	20.85
15	64QAM	75	0	20.85	20.78	20.77
15	256QAM	1	0	18.62	18.74	18.84
15	256QAM	1	37	18.58	18.54	18.54
15	256QAM	1	74	18.75	18.68	18.54
15	256QAM	36	0	18.63	18.85	18.80
15	256QAM	36	20	18.60	18.69	18.61



15	256QAM	36	39	18.52	18.62	18.60
15	256QAM	75	0	18.81	18.85	18.84
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	23.95	23.87	23.79
10	QPSK	1	25	23.85	23.80	23.75
10	QPSK	1	49	23.83	23.77	23.81
10	QPSK	25	0	22.87	22.81	22.74
10	QPSK	25	12	22.86	22.81	22.77
10	QPSK	25	25	22.81	22.74	22.77
10	QPSK	50	0	22.86	22.81	22.79
10	16QAM	1	0	23.12	23.04	22.99
10	16QAM	1	25	22.97	22.97	22.95
10	16QAM	1	49	23.09	22.95	22.95
10	16QAM	25	0	21.92	21.86	21.77
10	16QAM	25	12	21.87	21.84	21.82
10	16QAM	25	25	21.80	21.78	21.78
10	16QAM	50	0	21.86	21.81	21.81
10	64QAM	1	0	22.01	22.05	21.92
10	64QAM	1	25	21.94	21.98	21.88
10	64QAM	1	49	21.92	21.89	21.93
10	64QAM	25	0	20.87	20.84	20.76
10	64QAM	25	12	20.86	20.79	20.81
10	64QAM	25	25	20.77	20.73	20.77
10	64QAM	50	0	20.87	20.81	20.81
10	256QAM	1	0	18.58	18.61	18.63
10	256QAM	1	25	18.71	18.64	18.76
10	256QAM	1	49	18.52	18.75	18.53
10	256QAM	25	0	18.63	18.57	18.51
10	256QAM	25	12	18.55	18.59	18.60
10	256QAM	25	25	18.67	18.71	18.62
10	256QAM	50	0	18.83	18.64	18.84
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	23.92	23.88	23.80



5	QPSK	1	12	23.88	23.86	23.81
5	QPSK	1	24	23.85	23.81	23.84
5	QPSK	12	0	22.89	22.84	22.82
5	QPSK	12	7	22.86	22.78	22.80
5	QPSK	12	13	22.82	22.78	22.74
5	QPSK	25	0	22.85	22.84	22.80
5	16QAM	1	0	23.09	23.11	23.00
5	16QAM	1	12	23.09	23.04	23.00
5	16QAM	1	24	23.06	23.04	22.93
5	16QAM	12	0	21.88	21.83	21.84
5	16QAM	12	7	21.86	21.78	21.78
5	16QAM	12	13	21.78	21.75	21.74
5	16QAM	25	0	21.86	21.88	21.82
5	64QAM	1	0	22.00	21.97	21.91
5	64QAM	1	12	22.00	21.96	21.97
5	64QAM	1	24	21.97	21.94	21.97
5	64QAM	12	0	20.92	20.86	20.81
5	64QAM	12	7	20.90	20.82	20.81
5	64QAM	12	13	20.79	20.81	20.74
5	64QAM	25	0	20.82	20.84	20.78
5	256QAM	1	0	18.65	18.79	18.75
5	256QAM	1	12	18.78	18.73	18.75
5	256QAM	1	24	18.69	18.76	18.61
5	256QAM	12	0	18.60	18.63	18.51
5	256QAM	12	7	18.78	18.63	18.55
5	256QAM	12	13	18.77	18.53	18.51
5	256QAM	25	0	18.62	18.66	18.53
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	23.89	23.80	23.75
3	QPSK	1	8	23.83	23.79	23.77
3	QPSK	1	14	23.81	23.75	23.76
3	QPSK	8	0	22.84	22.84	22.82
3	QPSK	8	4	22.83	22.77	22.76
3	QPSK	8	7	22.83	22.78	22.78



3	QPSK	15	0	22.85	22.78	22.79
3	16QAM	1	0	23.02	23.03	22.88
3	16QAM	1	8	23.05	23.00	22.90
3	16QAM	1	14	23.02	22.98	22.87
3	16QAM	8	0	21.94	21.91	21.92
3	16QAM	8	4	21.94	21.84	21.91
3	16QAM	8	7	21.95	21.86	21.91
3	16QAM	15	0	21.89	21.82	21.87
3	64QAM	1	0	21.98	21.96	21.95
3	64QAM	1	8	21.98	21.98	21.96
3	64QAM	1	14	21.95	21.94	21.94
3	64QAM	8	0	20.88	20.86	20.86
3	64QAM	8	4	20.87	20.79	20.86
3	64QAM	8	7	20.92	20.84	20.86
3	64QAM	15	0	20.87	20.78	20.83
3	256QAM	1	0	18.61	18.69	18.54
3	256QAM	1	8	18.51	18.85	18.84
3	256QAM	1	14	18.67	18.51	18.63
3	256QAM	8	0	18.67	18.78	18.66
3	256QAM	8	4	18.75	18.69	18.54
3	256QAM	8	7	18.65	18.61	18.57
3	256QAM	15	0	18.66	18.79	18.59
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	23.78	23.76	23.72
1.4	QPSK	1	3	23.81	23.77	23.75
1.4	QPSK	1	5	23.77	23.72	23.75
1.4	QPSK	3	0	23.79	23.79	23.79
1.4	QPSK	3	1	23.82	23.77	23.77
1.4	QPSK	3	3	23.79	23.76	23.78
1.4	QPSK	6	0	22.85	22.83	22.78
1.4	16QAM	1	0	23.05	22.97	22.95
1.4	16QAM	1	3	23.04	22.96	22.93
1.4	16QAM	1	5	23.02	22.94	22.93
1.4	16QAM	3	0	22.86	22.86	22.82



1.4	16QAM	3	1	22.90	22.85	22.80
1.4	16QAM	3	3	22.83	22.83	22.81
1.4	16QAM	6	0	21.93	21.89	21.87
1.4	64QAM	1	0	22.03	22.02	21.98
1.4	64QAM	1	3	22.03	21.99	21.97
1.4	64QAM	1	5	22.03	21.98	21.90
1.4	64QAM	3	0	21.91	21.89	21.90
1.4	64QAM	3	1	21.91	21.88	21.92
1.4	64QAM	3	3	21.90	21.86	21.90
1.4	64QAM	6	0	20.82	20.78	20.76
1.4	256QAM	1	0	18.80	18.68	18.67
1.4	256QAM	1	3	18.57	18.82	18.71
1.4	256QAM	1	5	18.83	18.60	18.77
1.4	256QAM	3	0	18.77	18.55	18.73
1.4	256QAM	3	1	18.72	18.83	18.50
1.4	256QAM	3	3	18.74	18.53	18.75
1.4	256QAM	6	0	18.64	18.76	18.52



LTE Band 4- Ant 2						
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	25.23	25.32	25.12
20	QPSK	1	49	24.99	25.22	25.13
20	QPSK	1	99	25.06	25.16	25.14
20	QPSK	50	0	24.07	24.27	24.15
20	QPSK	50	24	24.05	24.24	24.19
20	QPSK	50	50	24.01	24.26	24.17
20	QPSK	100	0	24.09	24.15	24.12
20	16QAM	1	0	24.25	23.92	24.05
20	16QAM	1	49	24.04	23.94	23.90
20	16QAM	1	99	24.20	23.89	23.95
20	16QAM	50	0	23.01	23.29	23.14
20	16QAM	50	24	23.07	23.25	23.16
20	16QAM	50	50	23.08	23.28	23.23
20	16QAM	100	0	23.13	23.11	23.11
20	64QAM	1	0	23.38	23.51	23.19
20	64QAM	1	49	23.27	23.40	23.19
20	64QAM	1	99	23.22	23.36	23.18
20	64QAM	50	0	21.99	22.33	22.16
20	64QAM	50	24	22.05	22.20	22.20
20	64QAM	50	50	22.09	22.23	22.18
20	64QAM	100	0	22.10	22.23	22.17
20	256QAM	1	0	20.36	20.33	20.20
20	256QAM	1	49	20.30	20.29	20.22
20	256QAM	1	99	20.38	20.41	20.39
20	256QAM	50	0	20.07	20.20	20.09
20	256QAM	50	24	20.19	20.25	20.12
20	256QAM	50	50	20.23	20.33	20.16
20	256QAM	100	0	20.16	20.23	20.12
Channel				20025	20175	20325



Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	24.89	24.97	25.17
15	QPSK	1	37	24.94	24.97	25.06
15	QPSK	1	74	24.87	25.01	25.01
15	QPSK	36	0	24.02	24.16	24.17
15	QPSK	36	20	24.04	24.15	24.17
15	QPSK	36	39	24.03	24.16	24.12
15	QPSK	75	0	24.03	24.11	24.12
15	16QAM	1	0	24.20	24.32	24.55
15	16QAM	1	37	24.12	24.24	24.42
15	16QAM	1	74	24.14	24.19	24.39
15	16QAM	36	0	23.01	23.17	23.12
15	16QAM	36	20	23.01	23.17	23.10
15	16QAM	36	39	22.98	23.08	23.12
15	16QAM	75	0	23.02	23.11	23.18
15	64QAM	1	0	23.36	23.50	23.50
15	64QAM	1	37	23.24	23.47	23.44
15	64QAM	1	74	23.29	23.37	23.39
15	64QAM	36	0	22.13	22.21	22.16
15	64QAM	36	20	22.09	22.18	22.18
15	64QAM	36	39	22.06	22.22	22.15
15	64QAM	75	0	22.01	22.16	22.20
15	256QAM	1	0	20.14	20.00	20.15
15	256QAM	1	37	20.04	19.91	20.11
15	256QAM	1	74	20.09	20.05	20.00
15	256QAM	36	0	19.99	19.94	20.15
15	256QAM	36	20	20.11	20.05	19.98
15	256QAM	36	39	19.92	20.01	19.97
15	256QAM	75	0	19.91	19.92	20.10
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	25.25	25.30	25.16
10	QPSK	1	25	25.25	25.21	25.09
10	QPSK	1	49	25.22	25.12	25.08
10	QPSK	25	0	24.05	24.19	24.18



10	QPSK	25	12	24.03	24.17	24.11
10	QPSK	25	25	24.07	24.13	24.08
10	QPSK	50	0	24.00	24.21	24.19
10	16QAM	1	0	24.57	24.46	24.43
10	16QAM	1	25	24.41	24.37	24.35
10	16QAM	1	49	24.38	24.28	24.26
10	16QAM	25	0	23.14	23.22	23.18
10	16QAM	25	12	23.17	23.24	23.22
10	16QAM	25	25	23.18	23.21	23.21
10	16QAM	50	0	23.22	23.23	23.20
10	64QAM	1	0	23.01	23.19	23.17
10	64QAM	1	25	23.01	23.12	23.06
10	64QAM	1	49	22.83	23.11	23.08
10	64QAM	25	0	22.13	22.30	22.10
10	64QAM	25	12	22.15	22.29	22.15
10	64QAM	25	25	22.10	22.22	22.07
10	64QAM	50	0	22.16	22.23	22.17
10	256QAM	1	0	20.15	20.00	20.12
10	256QAM	1	25	19.96	20.05	20.05
10	256QAM	1	49	20.05	20.06	20.01
10	256QAM	25	0	20.07	19.97	20.10
10	256QAM	25	12	20.13	20.11	19.95
10	256QAM	25	25	20.14	19.94	19.96
10	256QAM	50	0	19.99	20.10	20.09
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	25.14	25.25	25.19
5	QPSK	1	12	25.08	25.29	25.18
5	QPSK	1	24	25.02	25.24	25.15
5	QPSK	12	0	24.11	24.18	24.15
5	QPSK	12	7	24.13	24.14	24.17
5	QPSK	12	13	24.07	24.15	24.11
5	QPSK	25	0	24.13	24.22	24.13
5	16QAM	1	0	24.41	24.53	24.59
5	16QAM	1	12	24.46	24.49	24.52



5	16QAM	1	24	24.39	24.53	24.47
5	16QAM	12	0	23.09	23.18	23.12
5	16QAM	12	7	23.08	23.11	23.13
5	16QAM	12	13	23.05	23.11	23.11
5	16QAM	25	0	23.12	23.12	23.15
5	64QAM	1	0	23.39	23.51	23.21
5	64QAM	1	12	23.37	23.15	23.18
5	64QAM	1	24	23.39	23.44	23.18
5	64QAM	12	0	22.11	22.15	22.16
5	64QAM	12	7	22.18	22.16	22.17
5	64QAM	12	13	22.10	22.11	22.14
5	64QAM	25	0	22.14	22.15	22.16
5	256QAM	1	0	20.13	19.92	20.08
5	256QAM	1	12	19.95	19.92	20.11
5	256QAM	1	24	20.12	19.94	20.11
5	256QAM	12	0	19.94	20.11	19.96
5	256QAM	12	7	19.91	20.03	19.95
5	256QAM	12	13	20.10	20.11	20.05
5	256QAM	25	0	19.91	19.99	20.01
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	25.19	25.16	25.16
3	QPSK	1	8	25.22	25.16	25.01
3	QPSK	1	14	25.23	25.09	25.05
3	QPSK	8	0	24.23	24.20	24.19
3	QPSK	8	4	24.12	24.13	24.09
3	QPSK	8	7	24.13	24.10	24.13
3	QPSK	15	0	24.18	24.12	24.13
3	16QAM	1	0	24.20	23.98	23.90
3	16QAM	1	8	24.17	23.97	23.89
3	16QAM	1	14	24.27	23.94	23.99
3	16QAM	8	0	23.35	23.36	23.22
3	16QAM	8	4	23.28	23.28	23.23
3	16QAM	8	7	23.31	23.31	23.14
3	16QAM	15	0	23.27	23.19	23.05



3	64QAM	1	0	23.37	23.35	23.10
3	64QAM	1	8	23.36	23.42	23.10
3	64QAM	1	14	23.34	23.41	23.09
3	64QAM	8	0	22.11	22.12	22.23
3	64QAM	8	4	22.30	22.10	22.17
3	64QAM	8	7	22.17	22.13	22.21
3	64QAM	15	0	22.22	22.27	22.17
3	256QAM	1	0	20.10	20.06	19.98
3	256QAM	1	8	20.09	20.14	19.90
3	256QAM	1	14	20.08	19.90	19.98
3	256QAM	8	0	20.08	20.01	20.13
3	256QAM	8	4	20.06	19.92	19.93
3	256QAM	8	7	19.92	20.07	20.14
3	256QAM	15	0	20.11	20.01	20.02
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	25.03	25.10	25.09
1.4	QPSK	1	3	24.83	25.07	25.05
1.4	QPSK	1	5	25.10	25.06	24.99
1.4	QPSK	3	0	25.13	25.19	25.23
1.4	QPSK	3	1	25.18	25.17	25.17
1.4	QPSK	3	3	25.21	25.12	25.18
1.4	QPSK	6	0	24.06	24.12	24.05
1.4	16QAM	1	0	24.18	24.17	24.35
1.4	16QAM	1	3	24.09	24.17	24.45
1.4	16QAM	1	5	24.08	24.12	24.34
1.4	16QAM	3	0	24.16	24.16	24.22
1.4	16QAM	3	1	24.14	24.20	24.21
1.4	16QAM	3	3	24.24	24.18	24.22
1.4	16QAM	6	0	23.22	23.37	23.39
1.4	64QAM	1	0	23.33	23.40	23.45
1.4	64QAM	1	3	23.38	23.43	23.52
1.4	64QAM	1	5	23.33	23.34	23.41
1.4	64QAM	3	0	23.23	23.25	23.27
1.4	64QAM	3	1	23.20	23.25	23.24



1.4	64QAM	3	3	23.19	23.26	23.28
1.4	64QAM	6	0	22.28	22.05	22.05
1.4	256QAM	1	0	19.99	20.00	19.98
1.4	256QAM	1	3	20.12	20.14	20.07
1.4	256QAM	1	5	20.15	20.12	20.12
1.4	256QAM	3	0	19.93	20.09	20.14
1.4	256QAM	3	1	20.15	19.94	20.10
1.4	256QAM	3	3	19.97	20.13	19.90
1.4	256QAM	6	0	20.00	20.07	20.08



LTE Band 12- Ant 1						
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				23060	23095	23130
Frequency (MHz)				704	707.5	711
10	QPSK	1	0	25.11	25.18	25.15
10	QPSK	1	25	25.02	25.04	25.08
10	QPSK	1	49	24.96	24.99	24.98
10	QPSK	25	0	23.97	24.18	23.94
10	QPSK	25	12	23.98	23.99	24.05
10	QPSK	25	25	23.95	24.12	23.99
10	QPSK	50	0	24.03	24.08	24.07
10	16QAM	1	0	24.20	24.18	24.21
10	16QAM	1	25	24.26	24.28	24.33
10	16QAM	1	49	24.35	24.40	24.32
10	16QAM	25	0	23.02	23.10	22.98
10	16QAM	25	12	23.02	23.03	23.09
10	16QAM	25	25	22.95	23.11	23.05
10	16QAM	50	0	23.02	23.03	23.05
10	64QAM	1	0	23.05	23.06	23.13
10	64QAM	1	25	23.09	23.18	23.22
10	64QAM	1	49	23.17	23.27	23.15
10	64QAM	25	0	21.99	22.10	21.94
10	64QAM	25	12	22.06	22.02	22.08
10	64QAM	25	25	21.97	22.10	22.07
10	64QAM	50	0	21.99	22.05	22.04
10	256QAM	1	0	19.73	19.71	19.92
10	256QAM	1	25	19.73	19.87	19.72
10	256QAM	1	49	19.77	19.78	19.89
10	256QAM	25	0	19.71	19.91	19.67
10	256QAM	25	12	19.78	19.74	19.64
10	256QAM	25	25	19.74	19.57	19.68
10	256QAM	50	0	19.62	19.90	19.67
Channel				23035	23095	23155



Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	24.96	25.05	25.04
5	QPSK	1	12	25.00	25.03	25.04
5	QPSK	1	24	25.04	25.07	25.12
5	QPSK	12	0	23.93	24.07	24.00
5	QPSK	12	7	23.92	23.98	24.02
5	QPSK	12	13	23.94	23.99	23.80
5	QPSK	25	0	23.96	23.97	24.04
5	16QAM	1	0	24.14	24.23	24.25
5	16QAM	1	12	24.10	24.24	24.17
5	16QAM	1	24	24.19	24.28	24.23
5	16QAM	12	0	22.96	23.07	22.96
5	16QAM	12	7	22.91	23.02	23.04
5	16QAM	12	13	22.90	22.99	22.80
5	16QAM	25	0	22.98	23.01	23.06
5	64QAM	1	0	23.04	23.16	23.17
5	64QAM	1	12	23.07	23.17	23.13
5	64QAM	1	24	23.11	23.22	23.18
5	64QAM	12	0	21.97	22.10	22.01
5	64QAM	12	7	21.96	22.04	22.07
5	64QAM	12	13	21.90	22.01	21.84
5	64QAM	25	0	21.92	21.98	22.03
5	256QAM	1	0	19.81	19.63	19.72
5	256QAM	1	12	19.95	19.71	19.90
5	256QAM	1	24	19.61	19.75	19.86
5	256QAM	12	0	19.56	19.82	19.68
5	256QAM	12	7	19.85	19.94	19.95
5	256QAM	12	13	19.87	19.60	19.57
5	256QAM	25	0	19.75	19.73	19.71
Channel				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	24.91	25.00	24.99
3	QPSK	1	8	24.95	25.00	25.02
3	QPSK	1	14	24.93	24.97	25.06
3	QPSK	8	0	23.92	23.99	24.03



3	QPSK	8	4	23.91	23.98	23.96
3	QPSK	8	7	23.95	23.98	23.98
3	QPSK	15	0	23.93	23.98	23.99
3	16QAM	1	0	24.15	24.21	24.22
3	16QAM	1	8	24.22	24.25	24.26
3	16QAM	1	14	24.12	24.26	24.27
3	16QAM	8	0	22.99	23.06	23.08
3	16QAM	8	4	22.99	23.04	23.00
3	16QAM	8	7	23.01	23.05	23.03
3	16QAM	15	0	22.97	23.01	23.00
3	64QAM	1	0	23.05	23.11	23.10
3	64QAM	1	8	23.07	23.15	23.05
3	64QAM	1	14	23.06	23.12	23.14
3	64QAM	8	0	21.94	21.98	22.03
3	64QAM	8	4	21.94	22.03	21.93
3	64QAM	8	7	21.99	22.02	21.99
3	64QAM	15	0	21.96	21.98	22.02
3	256QAM	1	0	19.83	19.93	19.79
3	256QAM	1	8	19.85	19.86	19.87
3	256QAM	1	14	19.57	19.73	19.66
3	256QAM	8	0	19.74	19.84	19.91
3	256QAM	8	4	19.57	19.84	19.73
3	256QAM	8	7	19.74	19.95	19.67
3	256QAM	15	0	19.83	19.71	19.75
Channel				23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3
1.4	QPSK	1	0	24.93	24.97	25.00
1.4	QPSK	1	3	24.97	24.98	25.01
1.4	QPSK	1	5	24.93	24.97	25.04
1.4	QPSK	3	0	24.94	25.01	25.00
1.4	QPSK	3	1	24.94	24.99	25.00
1.4	QPSK	3	3	24.97	24.97	25.03
1.4	QPSK	6	0	23.95	23.99	23.99
1.4	16QAM	1	0	24.16	24.21	24.13
1.4	16QAM	1	3	24.19	24.18	24.15



1.4	16QAM	1	5	24.19	24.25	24.14
1.4	16QAM	3	0	23.95	24.07	24.06
1.4	16QAM	3	1	23.94	24.07	24.05
1.4	16QAM	3	3	23.98	24.01	24.09
1.4	16QAM	6	0	22.98	23.08	23.09
1.4	64QAM	1	0	23.10	23.14	23.17
1.4	64QAM	1	3	23.07	23.19	23.16
1.4	64QAM	1	5	23.07	23.12	23.16
1.4	64QAM	3	0	23.03	23.11	23.14
1.4	64QAM	3	1	23.06	23.07	23.12
1.4	64QAM	3	3	23.09	23.04	23.12
1.4	64QAM	6	0	21.89	21.97	21.97
1.4	256QAM	1	0	19.94	19.79	19.85
1.4	256QAM	1	3	19.61	19.91	19.83
1.4	256QAM	1	5	19.90	19.85	19.70
1.4	256QAM	3	0	19.87	19.82	19.67
1.4	256QAM	3	1	19.92	19.88	19.87
1.4	256QAM	3	3	19.79	19.95	19.90
1.4	256QAM	6	0	19.65	19.87	19.81



LTE Band 26- Ant 0						
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				26765	26865	26965
Frequency (MHz)				821.5	831.5	841.5
15	QPSK	1	0	25.18	25.21	25.15
15	QPSK	1	37	25.15	25.18	25.07
15	QPSK	1	74	25.12	25.13	25.07
15	QPSK	36	0	23.81	23.87	23.79
15	QPSK	36	20	23.77	23.80	23.75
15	QPSK	36	39	23.75	23.80	23.64
15	QPSK	75	0	23.82	23.83	23.81
15	16QAM	1	0	24.00	24.18	24.22
15	16QAM	1	37	24.06	24.23	24.28
15	16QAM	1	74	24.11	24.19	24.32
15	16QAM	36	0	22.74	22.81	22.79
15	16QAM	36	20	22.78	22.82	22.77
15	16QAM	36	39	22.77	22.90	22.72
15	16QAM	75	0	22.78	22.84	22.81
15	64QAM	1	0	22.77	23.08	23.10
15	64QAM	1	37	22.90	23.12	22.99
15	64QAM	1	74	22.77	23.09	22.99
15	64QAM	36	0	21.80	21.78	21.75
15	64QAM	36	20	21.84	21.78	21.83
15	64QAM	36	39	21.78	21.77	21.76
15	64QAM	75	0	21.72	21.75	21.80
15	256QAM	1	0	19.97	19.89	19.98
15	256QAM	1	37	19.91	19.95	19.86
15	256QAM	1	74	19.98	19.88	19.98
15	256QAM	36	0	19.86	19.87	19.78
15	256QAM	36	20	19.82	19.83	19.86
15	256QAM	36	39	19.82	19.88	19.78
15	256QAM	75	0	19.82	19.83	19.79
Channel				26740	26865	26990



Frequency (MHz)				819	831.5	844
10	QPSK	1	0	24.71	24.84	24.69
10	QPSK	1	25	24.78	24.82	24.71
10	QPSK	1	49	24.84	24.81	24.78
10	QPSK	25	0	23.82	23.78	23.89
10	QPSK	25	12	23.78	23.83	23.80
10	QPSK	25	25	23.82	23.80	23.82
10	QPSK	50	0	23.81	23.86	23.93
10	16QAM	1	0	24.28	23.81	23.57
10	16QAM	1	25	24.28	23.87	23.56
10	16QAM	1	49	23.85	23.90	23.60
10	16QAM	25	0	22.72	22.91	22.89
10	16QAM	25	12	22.75	22.90	22.82
10	16QAM	25	25	22.76	22.85	22.77
10	16QAM	50	0	22.81	22.86	22.83
10	64QAM	1	0	22.97	22.96	23.06
10	64QAM	1	25	23.08	23.05	23.03
10	64QAM	1	49	22.99	23.02	23.09
10	64QAM	25	0	21.78	21.86	21.79
10	64QAM	25	12	21.78	21.72	21.74
10	64QAM	25	25	21.85	21.72	21.71
10	64QAM	50	0	21.77	21.81	21.85
10	256QAM	1	0	19.62	19.57	19.43
10	256QAM	1	25	19.41	19.61	19.40
10	256QAM	1	49	19.71	19.55	19.55
10	256QAM	25	0	19.92	19.64	19.90
10	256QAM	25	12	19.77	19.45	19.63
10	256QAM	25	25	19.41	19.52	19.81
10	256QAM	50	0	19.57	19.46	19.71
Channel				26715	26865	27015
Frequency (MHz)				816.5	831.5	846.5
5	QPSK	1	0	24.76	24.77	24.78
5	QPSK	1	12	24.84	24.75	24.84
5	QPSK	1	24	24.78	24.72	24.78
5	QPSK	12	0	23.77	23.84	23.87



5	QPSK	12	7	23.78	23.86	23.93
5	QPSK	12	13	23.76	23.76	23.83
5	QPSK	25	0	23.83	23.82	23.90
5	16QAM	1	0	23.77	23.84	24.17
5	16QAM	1	12	23.81	23.87	24.23
5	16QAM	1	24	23.89	23.86	24.26
5	16QAM	12	0	22.69	22.79	22.89
5	16QAM	12	7	22.77	22.80	22.90
5	16QAM	12	13	22.72	22.70	22.81
5	16QAM	25	0	22.74	22.69	22.90
5	64QAM	1	0	23.06	23.04	23.11
5	64QAM	1	12	22.83	23.09	23.08
5	64QAM	1	24	23.02	23.03	23.10
5	64QAM	12	0	21.78	21.88	21.87
5	64QAM	12	7	21.83	21.81	21.84
5	64QAM	12	13	21.79	21.77	21.82
5	64QAM	25	0	21.74	21.71	21.92
5	256QAM	1	0	19.40	19.63	19.48
5	256QAM	1	12	19.66	19.47	19.83
5	256QAM	1	24	19.64	19.59	19.49
5	256QAM	12	0	19.84	19.83	19.71
5	256QAM	12	7	19.65	19.81	19.86
5	256QAM	12	13	19.82	19.78	19.56
5	256QAM	25	0	19.62	19.52	19.90
Channel				26705	26865	27025
Frequency (MHz)				815.5	831.5	847.5
3	QPSK	1	0	24.87	24.95	24.80
3	QPSK	1	8	24.99	25.02	24.91
3	QPSK	1	14	24.95	24.99	24.94
3	QPSK	8	0	23.82	23.81	23.78
3	QPSK	8	4	23.75	23.74	23.83
3	QPSK	8	7	23.74	23.80	23.88
3	QPSK	15	0	23.76	23.77	23.90
3	16QAM	1	0	24.30	24.26	24.02
3	16QAM	1	8	24.23	24.26	24.06



3	16QAM	1	14	24.26	23.94	24.06
3	16QAM	8	0	22.83	22.78	22.88
3	16QAM	8	4	22.78	22.74	22.92
3	16QAM	8	7	22.85	22.79	22.97
3	16QAM	15	0	22.83	22.81	22.80
3	64QAM	1	0	22.55	22.82	22.77
3	64QAM	1	8	22.59	22.70	22.87
3	64QAM	1	14	22.57	22.69	22.79
3	64QAM	8	0	21.78	21.62	21.70
3	64QAM	8	4	21.83	21.61	21.72
3	64QAM	8	7	21.88	21.70	21.83
3	64QAM	15	0	21.69	21.85	21.89
3	256QAM	1	0	19.84	19.65	19.40
3	256QAM	1	8	19.74	19.44	19.45
3	256QAM	1	14	19.73	19.46	19.58
3	256QAM	8	0	19.68	19.79	19.52
3	256QAM	8	4	19.48	19.70	19.95
3	256QAM	8	7	19.56	19.46	19.79
3	256QAM	15	0	19.49	19.42	19.56
Channel				26697	26865	27033
Frequency (MHz)				814.7	831.5	848.3
1.4	QPSK	1	0	25.10	25.12	25.05
1.4	QPSK	1	3	25.14	25.13	25.02
1.4	QPSK	1	5	25.09	25.09	24.97
1.4	QPSK	3	0	24.77	24.85	24.78
1.4	QPSK	3	1	24.85	24.76	24.72
1.4	QPSK	3	3	24.77	24.70	24.79
1.4	QPSK	6	0	23.90	23.88	23.90
1.4	16QAM	1	0	24.07	24.09	24.25
1.4	16QAM	1	3	24.03	24.39	24.34
1.4	16QAM	1	5	23.99	24.10	24.20
1.4	16QAM	3	0	23.88	23.78	23.78
1.4	16QAM	3	1	23.82	23.85	23.83
1.4	16QAM	3	3	23.91	23.79	23.82
1.4	16QAM	6	0	22.88	22.99	22.99



1.4	64QAM	1	0	22.79	23.19	23.20
1.4	64QAM	1	3	22.74	23.12	23.21
1.4	64QAM	1	5	22.67	23.09	22.97
1.4	64QAM	3	0	22.51	23.02	23.02
1.4	64QAM	3	1	22.65	23.08	23.00
1.4	64QAM	3	3	22.52	23.01	22.97
1.4	64QAM	6	0	21.71	21.76	21.86
1.4	256QAM	1	0	19.65	19.46	19.76
1.4	256QAM	1	3	19.40	19.64	19.62
1.4	256QAM	1	5	19.84	19.88	19.74
1.4	256QAM	3	0	19.66	19.64	19.64
1.4	256QAM	3	1	19.49	19.53	19.76
1.4	256QAM	3	3	19.95	19.54	19.79
1.4	256QAM	6	0	19.72	19.52	19.90

ERP/EIRP

LTE Band 2 (GT - LC = -1.08 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)	23.82	23.77	23.77	23.89	23.80	23.75	23.92	23.88	23.80
Conducted Power (Watts)	0.2410	0.2382	0.2382	0.2449	0.2399	0.2371	0.2466	0.2443	0.2399
EIRP(dBm)	22.74	22.69	22.69	22.81	22.72	22.67	22.84	22.80	22.72
EIRP(Watts)	0.1879	0.1858	0.1858	0.1910	0.1871	0.1849	0.1923	0.1905	0.1871

LTE Band 2 (GT - LC = -1.08 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)	23.95	23.87	23.79	23.94	23.88	23.82	23.96	23.90	23.88
Conducted Power (Watts)	0.2483	0.2438	0.2393	0.2477	0.2443	0.2410	0.2489	0.2455	0.2443
EIRP(dBm)	22.87	22.79	22.71	22.86	22.80	22.74	22.88	22.82	22.80
EIRP(Watts)	0.1936	0.1901	0.1866	0.1932	0.1905	0.1879	0.1941	0.1914	0.1905



LTE Band 2 (GT - LC = -1.08 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)	23.05	22.97	22.95	23.05	23.00	22.90	23.09	23.11	23.00
Conducted Power (Watts)	0.2018	0.1982	0.1972	0.2018	0.1995	0.1950	0.2037	0.2046	0.1995
EIRP(dBm)	21.97	21.89	21.87	21.97	21.92	21.82	22.01	22.03	21.92
EIRP(Watts)	0.1574	0.1545	0.1538	0.1574	0.1556	0.1521	0.1589	0.1596	0.1556

LTE Band 2 (GT - LC = -1.08 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)	23.12	23.04	22.99	23.13	22.98	23.00	23.09	23.16	23.08
Conducted Power (Watts)	0.2051	0.2014	0.1991	0.2056	0.1986	0.1995	0.2037	0.2070	0.2032
EIRP(dBm)	22.04	21.96	21.91	22.05	21.90	21.92	22.01	22.08	22.00
EIRP(Watts)	0.1600	0.1570	0.1552	0.1603	0.1549	0.1556	0.1589	0.1614	0.1585



LTE Band 2 (GT - LC = -1.08 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)	22.03	22.02	21.98	21.98	21.98	21.96	22.00	21.97	21.91
Conducted Power (Watts)	0.1596	0.1592	0.1578	0.1578	0.1578	0.1570	0.1585	0.1574	0.1552
EIRP(dBm)	20.95	20.94	20.90	20.90	20.90	20.88	20.92	20.89	20.83
EIRP(Watts)	0.1245	0.1242	0.1230	0.1230	0.1230	0.1225	0.1236	0.1227	0.1211

LTE Band 2 (GT - LC = -1.08 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)	22.01	22.05	21.92	22.04	22.02	22.04	22.08	22.01	21.93
Conducted Power (Watts)	0.1589	0.1603	0.1556	0.1600	0.1592	0.1600	0.1614	0.1589	0.1560
EIRP(dBm)	20.93	20.97	20.84	20.96	20.94	20.96	21.00	20.93	20.85
EIRP(Watts)	0.1239	0.1250	0.1213	0.1247	0.1242	0.1247	0.1259	0.1239	0.1216



LTE Band 4 (GT - LC = -1.01 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)	25.13	25.19	25.23	25.23	25.09	25.05	25.08	25.29	25.18
Conducted Power (Watts)	0.3258	0.3304	0.3334	0.3334	0.3228	0.3199	0.3221	0.3381	0.3296
EIRP(dBm)	24.12	24.18	24.22	24.22	24.08	24.04	24.07	24.28	24.17
EIRP(Watts)	0.2582	0.2618	0.2642	0.2642	0.2559	0.2535	0.2553	0.2679	0.2612

LTE Band 4 (GT - LC = -1.01 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)	25.25	25.30	25.16	24.89	24.97	25.17	25.23	25.32	25.12
Conducted Power (Watts)	0.3350	0.3388	0.3281	0.3083	0.3141	0.3289	0.3334	0.3404	0.3251
EIRP(dBm)	24.24	24.29	24.15	23.88	23.96	24.16	24.22	24.31	24.11
EIRP(Watts)	0.2655	0.2685	0.2600	0.2443	0.2489	0.2606	0.2642	0.2698	0.2576



LTE Band 4 (GT - LC = -1.01 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)	24.09	24.17	24.45	24.27	23.94	23.99	24.41	24.53	24.59
Conducted Power (Watts)	0.2564	0.2612	0.2786	0.2673	0.2477	0.2506	0.2761	0.2838	0.2877
EIRP(dBm)	23.08	23.16	23.44	23.26	22.93	22.98	23.40	23.52	23.58
EIRP(Watts)	0.2032	0.2070	0.2208	0.2118	0.1963	0.1986	0.2188	0.2249	0.2280

LTE Band 4 (GT - LC = -1.01 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)	24.57	24.46	24.43	24.20	24.32	24.55	24.25	23.92	24.05
Conducted Power (Watts)	0.2864	0.2793	0.2773	0.2630	0.2704	0.2851	0.2661	0.2466	0.2541
EIRP(dBm)	23.56	23.45	23.42	23.19	23.31	23.54	23.24	22.91	23.04
EIRP(Watts)	0.2270	0.2213	0.2198	0.2084	0.2143	0.2259	0.2109	0.1954	0.2014



LTE Band 4 (GT - LC = -1.01 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)	23.38	23.43	23.52	23.36	23.42	23.10	23.39	23.51	23.21
Conducted Power (Watts)	0.2178	0.2203	0.2249	0.2168	0.2198	0.2042	0.2183	0.2244	0.2094
EIRP(dBm)	22.37	22.42	22.51	22.35	22.41	22.09	22.38	22.50	22.20
EIRP(Watts)	0.1726	0.1746	0.1782	0.1718	0.1742	0.1618	0.1730	0.1778	0.1660

LTE Band 4 (GT - LC = -1.01 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)	23.01	23.19	23.17	23.36	23.50	23.50	23.38	23.51	23.19
Conducted Power (Watts)	0.2000	0.2084	0.2075	0.2168	0.2239	0.2239	0.2178	0.2244	0.2084
EIRP(dBm)	22.00	22.18	22.16	22.35	22.49	22.49	22.37	22.50	22.18
EIRP(Watts)	0.1585	0.1652	0.1644	0.1718	0.1774	0.1774	0.1726	0.1778	0.1652



LTE Band 12 (GT - LC = -3.07 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
(MHz)									
Conducted Power (dBm)	24.93	24.97	25.04	24.93	24.97	25.06	25.04	25.07	25.12
Conducted Power (Watts)	0.3112	0.3141	0.3192	0.3112	0.3141	0.3206	0.3192	0.3214	0.3251
ERP(dBm)	19.71	19.75	19.82	19.71	19.75	19.84	19.82	19.85	19.90
ERP(Watts)	0.0935	0.0944	0.0959	0.0935	0.0944	0.0964	0.0959	0.0966	0.0977

LTE Band 12 (GT - LC = -3.07 dB) QPSK			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency	704	707.5	711
(MHz)			
Conducted Power (dBm)	25.11	25.18	25.15
Conducted Power (Watts)	0.3243	0.3296	0.3273
ERP(dBm)	19.89	19.96	19.93
ERP(Watts)	0.0975	0.0991	0.0984



LTE Band 12 (GT - LC = -3.07 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
(MHz)									
Conducted Power (dBm)	24.19	24.25	24.14	24.12	24.26	24.27	24.19	24.28	24.23
Conducted Power (Watts)	0.2624	0.2661	0.2594	0.2582	0.2667	0.2673	0.2624	0.2679	0.2649
ERP(dBm)	18.97	19.03	18.92	18.90	19.04	19.05	18.97	19.06	19.01
ERP(Watts)	0.0789	0.0800	0.0780	0.0776	0.0802	0.0804	0.0789	0.0805	0.0796

LTE Band 12 (GT - LC = -3.07 dB) 16QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency	704	707.5	711
(MHz)			
Conducted Power (dBm)	24.35	24.40	24.32
Conducted Power (Watts)	0.2723	0.2754	0.2704
ERP(dBm)	19.13	19.18	19.10
ERP(Watts)	0.0818	0.0828	0.0813



LTE Band 12 (GT - LC = -3.07 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	23017	23095	23173	23025	23095	23165	23035	23095	23155
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency (MHz)	699.7	707.5	715.3	700.5	707.5	714.5	701.5	707.5	713.5
Conducted Power (dBm)	23.07	23.19	23.16	23.07	23.15	23.05	23.11	23.22	23.18
Conducted Power (Watts)	0.2028	0.2084	0.2070	0.2028	0.2065	0.2018	0.2046	0.2099	0.2080
ERP(dBm)	17.85	17.97	17.94	17.85	17.93	17.83	17.89	18.00	17.96
ERP(Watts)	0.0610	0.0627	0.0622	0.0610	0.0621	0.0607	0.0615	0.0631	0.0625

LTE Band 12 (GT - LC = -3.07 dB) 64QAM			
Bandwidth	10M		
Channel	23060	23095	23130
	(Low)	(Mid)	(High)
Frequency (MHz)	704	707.5	711
Conducted Power (dBm)	23.17	23.27	23.15
Conducted Power (Watts)	0.2075	0.2123	0.2065
ERP(dBm)	17.95	18.05	17.93
ERP(Watts)	0.0624	0.0638	0.0621



LTE Band 26 (GT - LC = -3.88 dB) QPSK									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	25.14	25.13	25.02	24.99	25.02	24.91	24.84	24.75	24.84
Conducted Power (Watts)	0.3266	0.3258	0.3177	0.3155	0.3177	0.3097	0.3048	0.2985	0.3048
ERP(dBm)	19.11	19.10	18.99	18.96	18.99	18.88	18.81	18.72	18.81
ERP(Watts)	0.0815	0.0813	0.0793	0.0787	0.0793	0.0773	0.0760	0.0745	0.0760

LTE Band 26 (GT - LC = -3.88 dB) QPSK							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency	829	836.5	844	831.5	836.5	841.5	821.5
(MHz)							
Conducted Power (dBm)	24.71	24.84	24.69	25.18	25.21	25.15	25.18
Conducted Power (Watts)	0.2958	0.3048	0.2944	0.3296	0.3319	0.3273	0.3296
ERP(dBm)	18.68	18.81	18.66	19.15	19.18	19.12	19.15
ERP(Watts)	0.0738	0.0760	0.0735	0.0822	0.0828	0.0817	0.0822

LTE Band 26 (GT - LC = -3.88 dB) 16QAM									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	24.03	24.39	24.34	24.30	24.26	24.02	23.89	23.86	24.26
Conducted Power (Watts)	0.2529	0.2748	0.2716	0.2692	0.2667	0.2523	0.2449	0.2432	0.2667
ERP(dBm)	18.00	18.36	18.31	18.27	18.23	17.99	17.86	17.83	18.23
ERP(Watts)	0.0631	0.0685	0.0678	0.0671	0.0665	0.0630	0.0611	0.0607	0.0665

LTE Band 26 (GT - LC = -3.88 dB) 16QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency	829	836.5	844	831.5	836.5	841.5	821.5
(MHz)							
Conducted Power (dBm)	24.28	23.87	23.56	24.11	24.19	24.32	24.11
Conducted Power (Watts)	0.2679	0.2438	0.2270	0.2576	0.2624	0.2704	0.2576
ERP(dBm)	18.25	17.84	17.53	18.08	18.16	18.29	18.08
ERP(Watts)	0.0668	0.0608	0.0566	0.0643	0.0655	0.0675	0.0643



LTE Band 26 (GT - LC = -3.88 dB) 64QAM									
Bandwidth	1.4M			3M			5M		
Channel	26797	26915	27033	26805	26915	27025	26815	26915	27015
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Frequency	824.7	836.5	848.3	825.5	836.5	847.5	826.5	836.5	846.5
(MHz)									
Conducted Power (dBm)	22.74	23.12	23.21	22.59	22.70	22.87	23.06	23.04	23.11
Conducted Power (Watts)	0.1879	0.2051	0.2094	0.1816	0.1862	0.1936	0.2023	0.2014	0.2046
ERP(dBm)	16.71	17.09	17.18	16.56	16.67	16.84	17.03	17.01	17.08
ERP(Watts)	0.0469	0.0512	0.0522	0.0453	0.0465	0.0483	0.0505	0.0502	0.0511

LTE Band 26 (GT - LC = -3.88 dB) 64QAM							
Bandwidth	10M			15M			15M
Channel	26840	26915	26990	26865	26915	26965	26765
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)
Frequency	829	836.5	844	831.5	836.5	841.5	821.5
(MHz)							
Conducted Power (dBm)	22.99	23.02	23.09	22.90	23.12	22.99	22.90
Conducted Power (Watts)	0.1991	0.2004	0.2037	0.1950	0.2051	0.1991	0.1950
ERP(dBm)	16.96	16.99	17.06	16.87	17.09	16.96	16.87
ERP(Watts)	0.0497	0.0500	0.0508	0.0486	0.0512	0.0497	0.0486



LTE Band 2

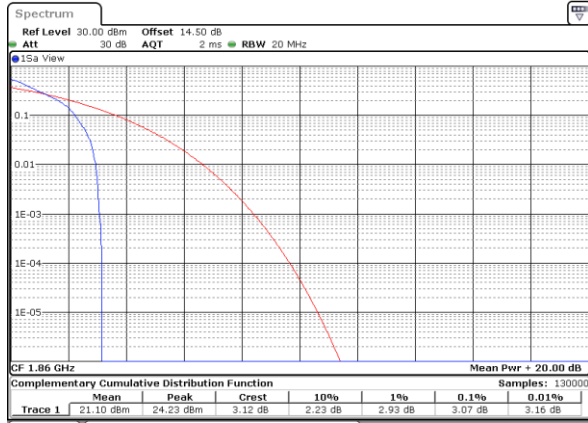
Peak-to-Average Ratio

Mode	LTE Band 2 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.07	5.04	4.09	5.88	PASS
Middle CH	4.06	5.10	5.01	5.94	
Highest CH	3.71	5.01	4.55	5.97	
Mode	LTE Band 2 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	4.90	6.12	-	-	PASS
Middle CH	5.77	6.17	-	-	
Highest CH	5.51	6.12	-	-	

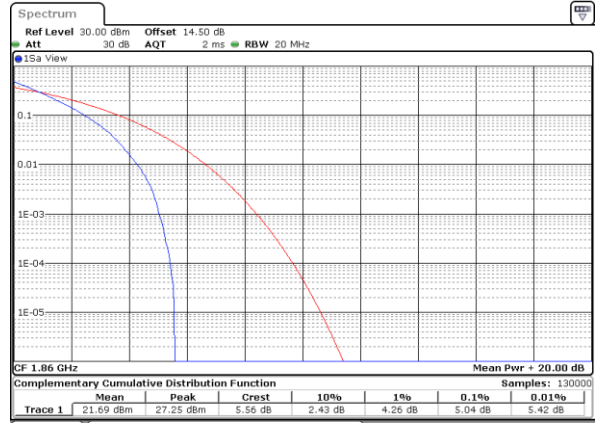


LTE Band 2 / 20MHz / QPSK

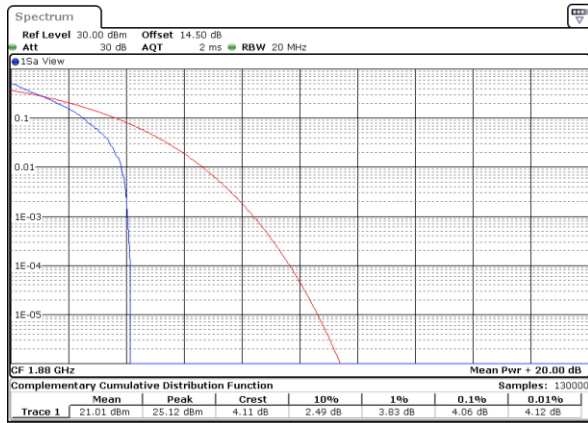
Lowest Channel / 1RB



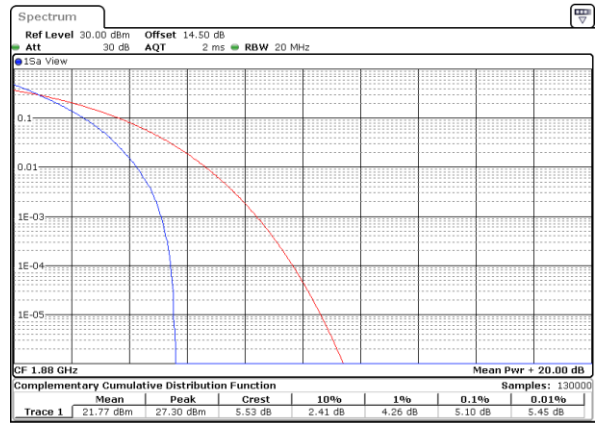
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



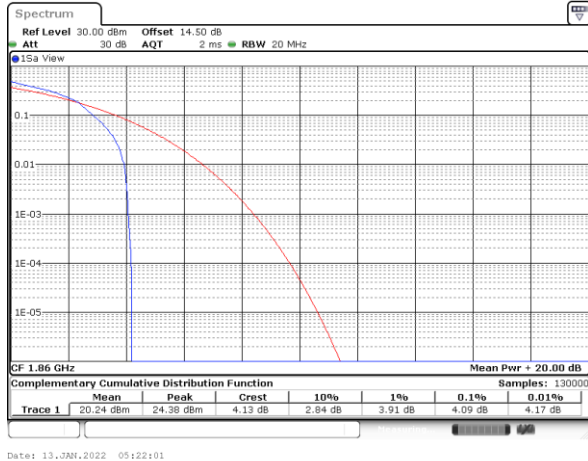
Highest Channel / Full RB



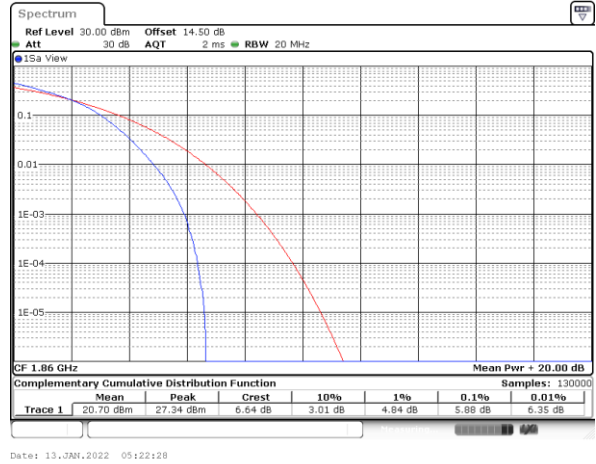


LTE Band 2 / 20MHz / 16QAM

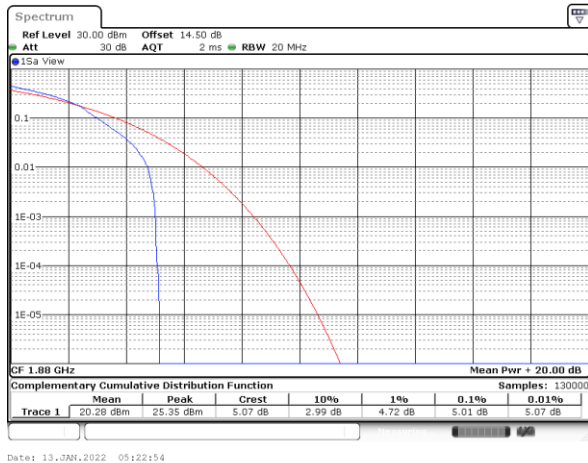
Lowest Channel / 1RB



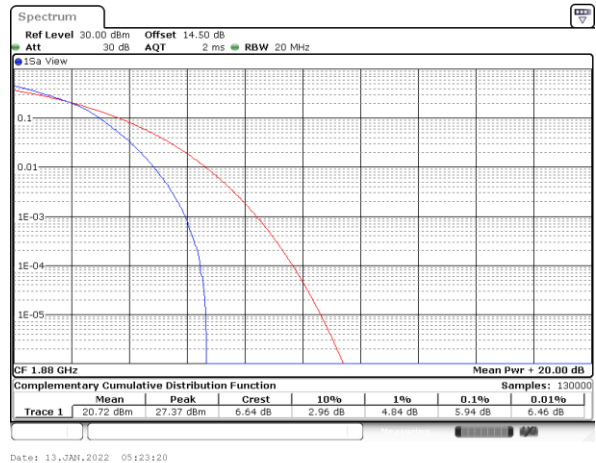
Lowest Channel / Full RB



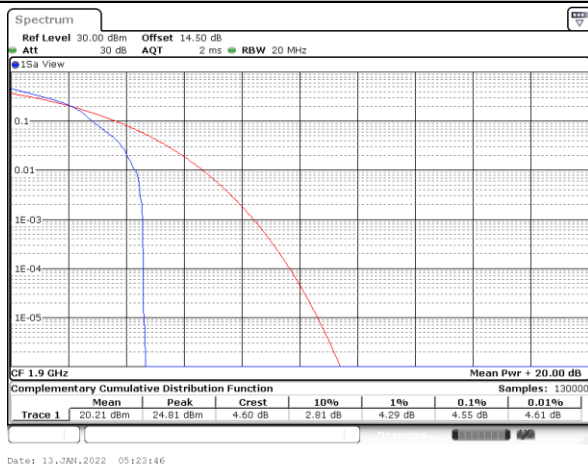
Middle Channel / 1RB



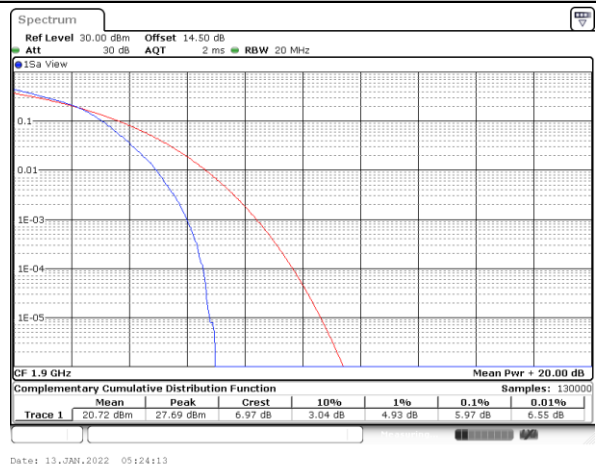
Middle Channel / Full RB



Highest Channel / 1RB



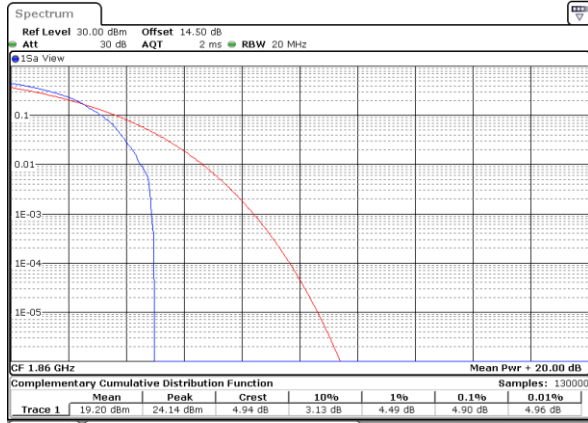
Highest Channel / Full RB



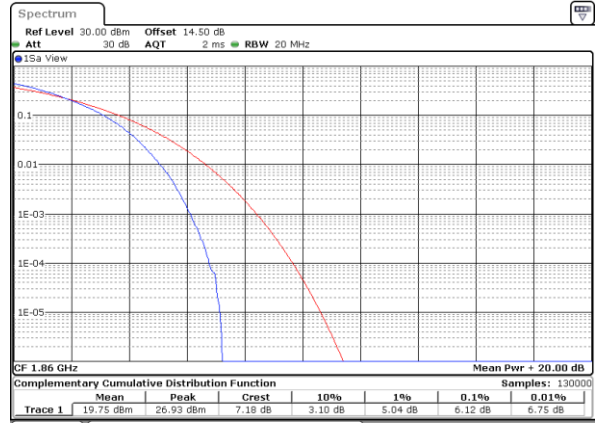


LTE Band 2 / 20MHz / 64QAM

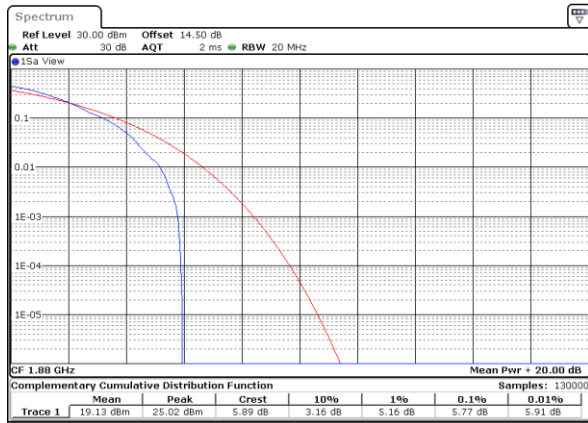
Lowest Channel / 1RB



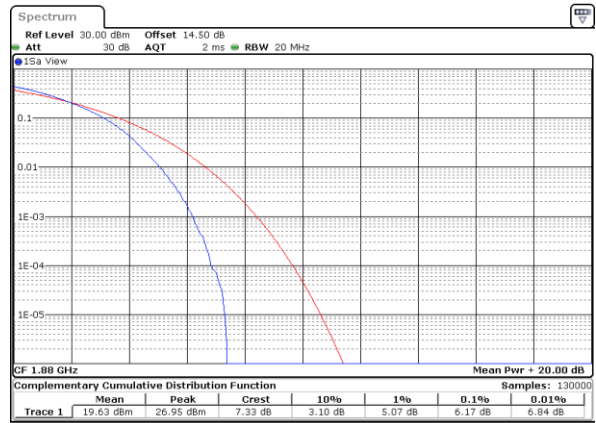
Lowest Channel / Full RB



Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



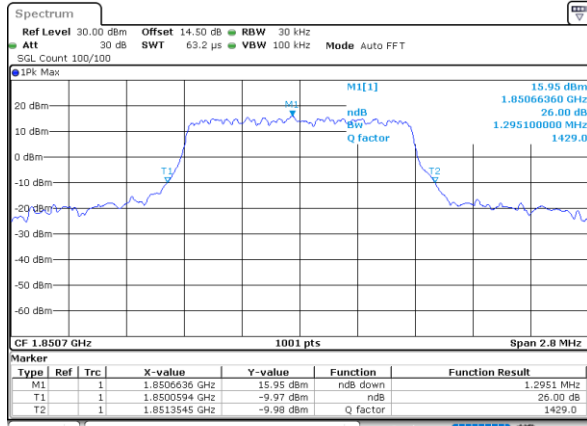
**26dB Bandwidth**

Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.30	1.26	3.00	2.96	4.90	4.95	9.71	9.93	14.57	14.33	18.78	19.54
Middle CH	1.28	1.26	3.00	3.00	4.92	4.93	9.75	9.77	14.30	14.42	18.66	18.90
Highest CH	1.28	1.27	3.02	2.98	4.89	4.90	9.83	9.77	14.36	14.57	18.94	18.90
Mode	LTE Band 2 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.27	-	2.96	-	4.84	-	9.69	-	14.42	-	18.70	-
Middle CH	1.27	-	2.94	-	4.85	-	9.83	-	14.48	-	19.14	-
Highest CH	1.27	-	2.94	-	4.89	-	9.77	-	14.30	-	18.86	-



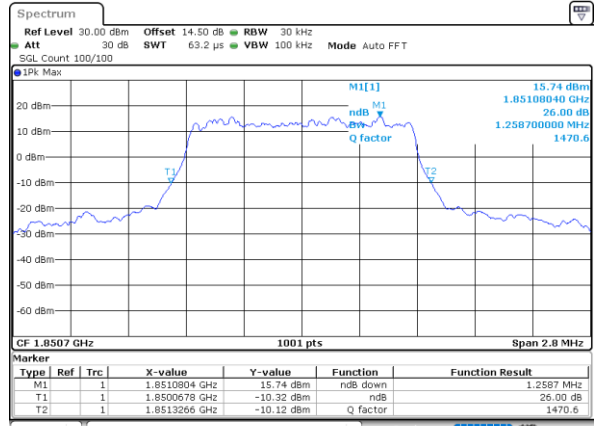
LTE Band 2

Lowest Channel / 1.4MHz / QPSK



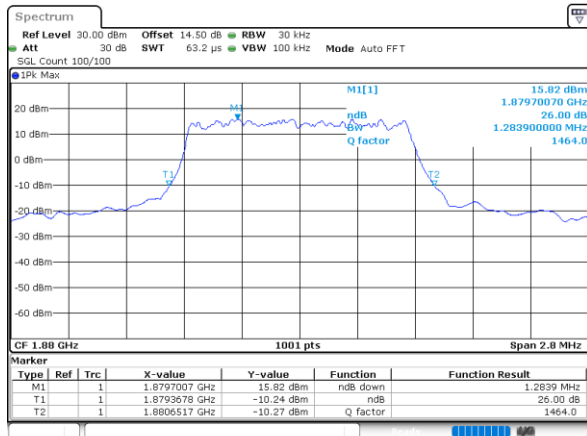
Date: 13.JAN.2022 01:04:40

Lowest Channel / 1.4MHz / 16QAM



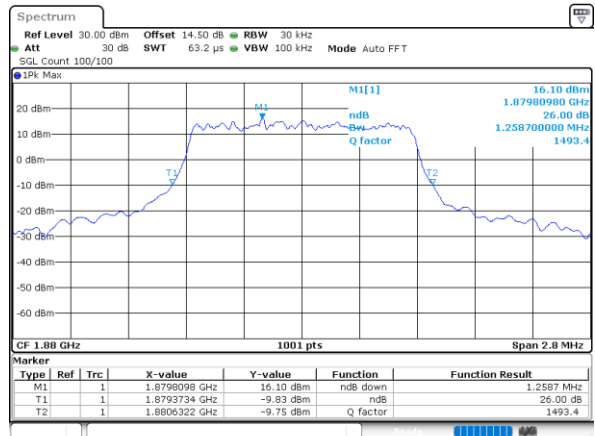
Date: 13.JAN.2022 01:05:14

Middle Channel / 1.4MHz / QPSK



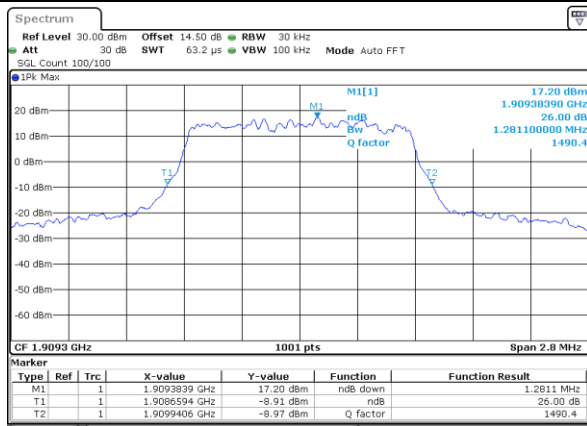
Date: 13.JAN.2022 01:15:33

Middle Channel / 1.4MHz / 16QAM



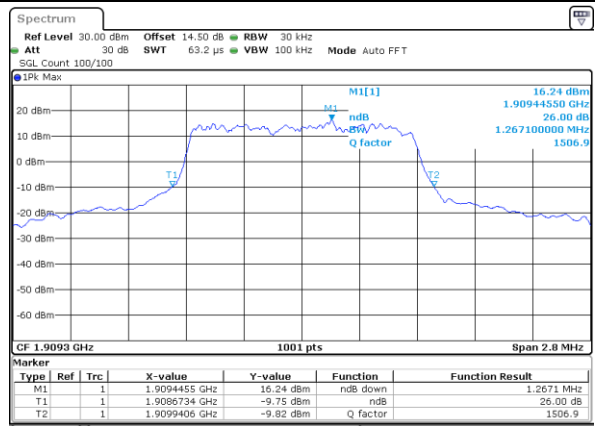
Date: 13.JAN.2022 01:15:58

Highest Channel / 1.4MHz / QPSK



Date: 13.JAN.2022 01:19:21

Highest Channel / 1.4MHz / 16QAM

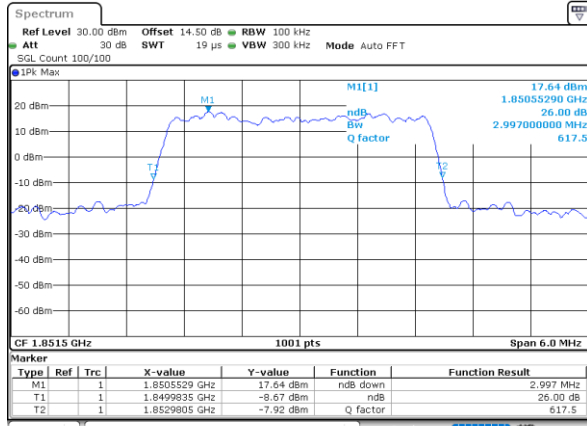


Date: 13.JAN.2022 01:19:46



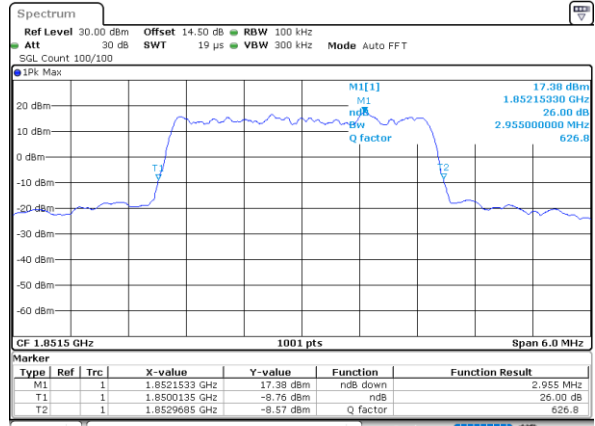
LTE Band 2

Lowest Channel / 3MHz / QPSK



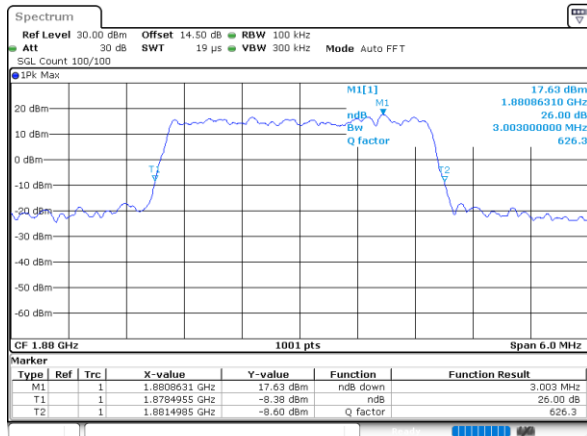
Date: 13.JAN.2022 01:30:07

Lowest Channel / 3MHz / 16QAM



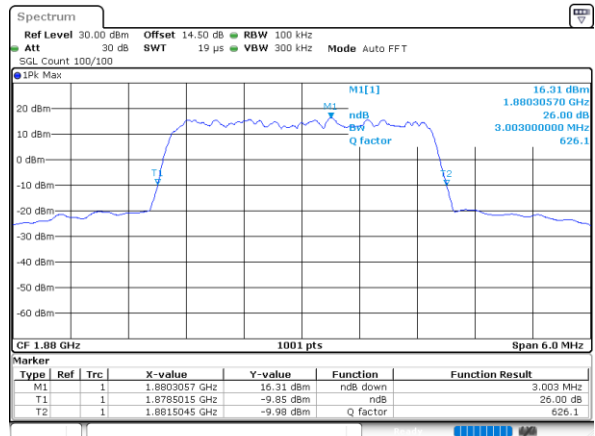
Date: 13.JAN.2022 01:30:32

Middle Channel / 3MHz / QPSK



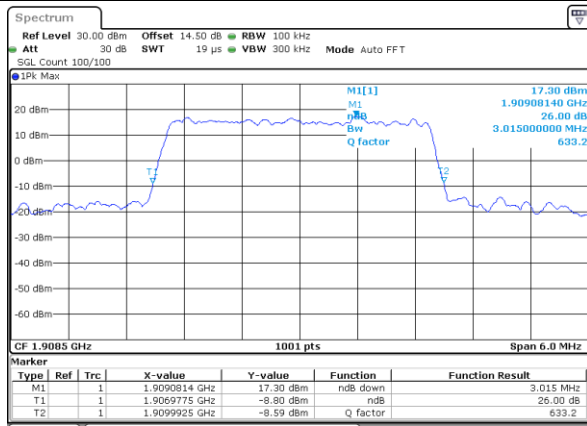
Date: 13.JAN.2022 01:40:51

Middle Channel / 3MHz / 16QAM



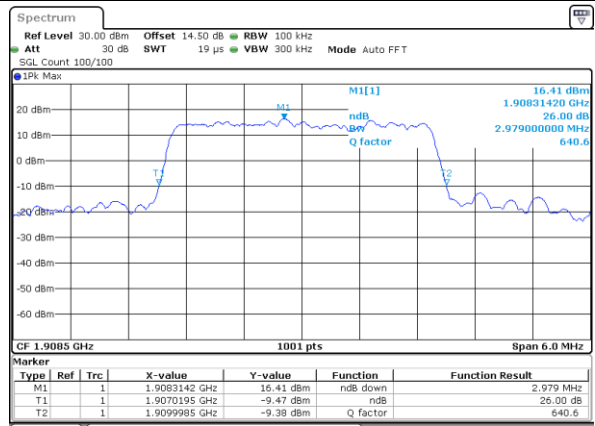
Date: 13.JAN.2022 01:41:16

Highest Channel / 3MHz / QPSK



Date: 13.JAN.2022 02:24:09

Highest Channel / 3MHz / 16QAM

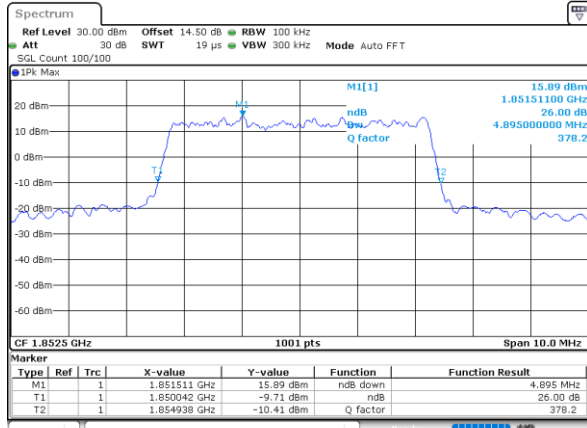


Date: 13.JAN.2022 02:24:34



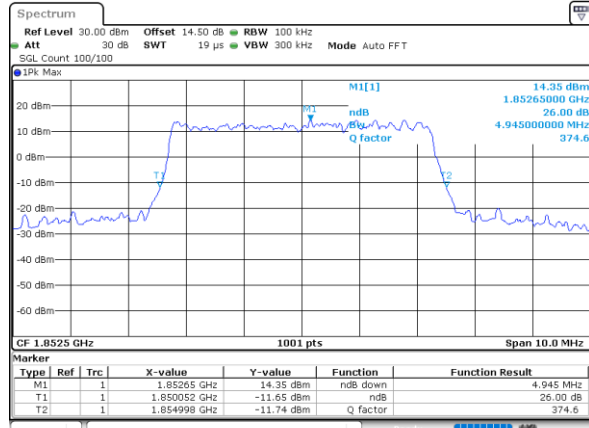
LTE Band 2

Lowest Channel / 5MHz / QPSK



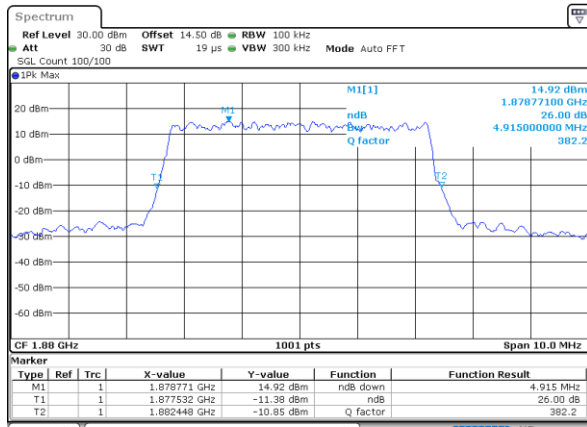
Date: 13.JAN.2022 02:35:11

Lowest Channel / 5MHz / 16QAM



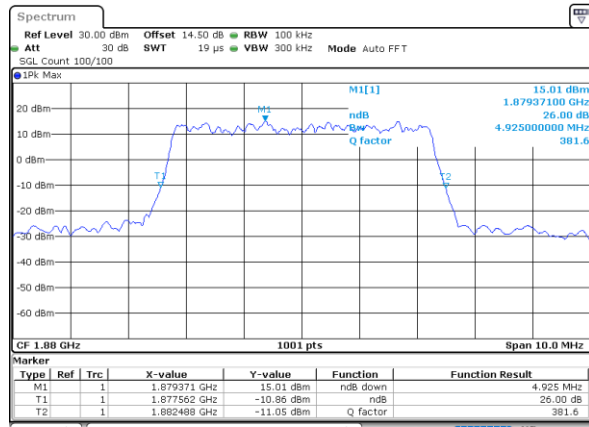
Date: 13.JAN.2022 02:35:36

Middle Channel / 5MHz / QPSK



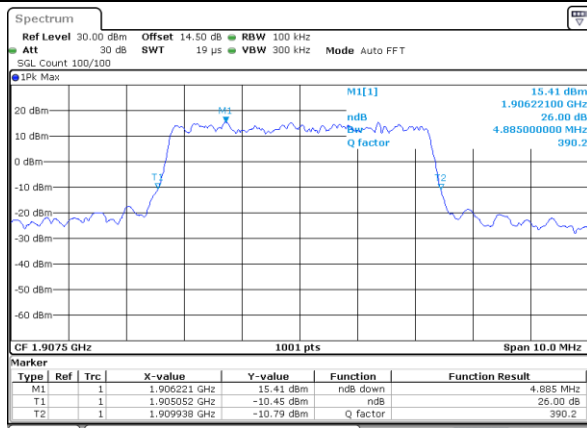
Date: 13.JAN.2022 02:46:13

Middle Channel / 5MHz / 16QAM



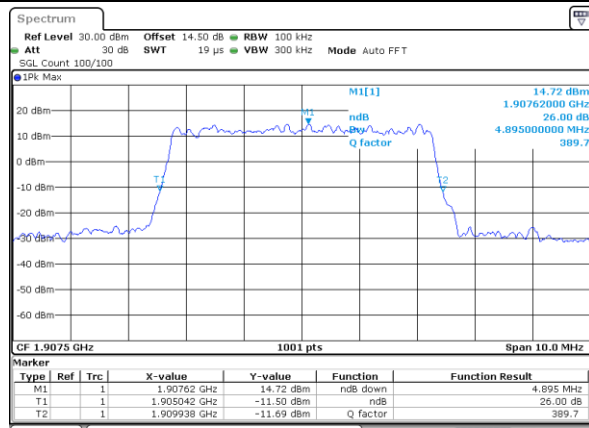
Date: 13.JAN.2022 02:46:37

Highest Channel / 5MHz / QPSK



Date: 13.JAN.2022 02:50:20

Highest Channel / 5MHz / 16QAM

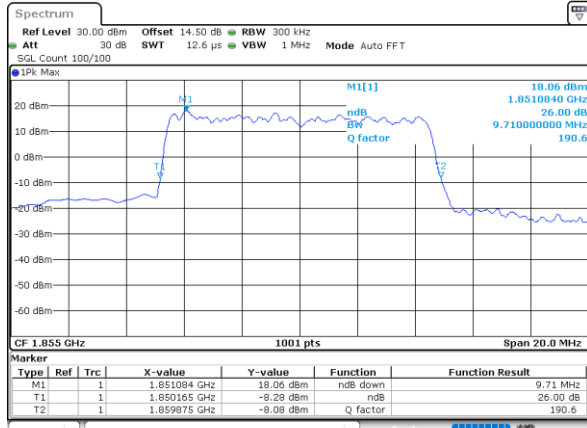


Date: 13.JAN.2022 02:50:45



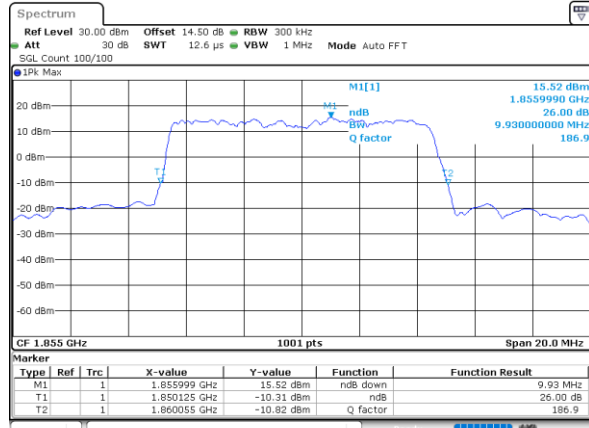
LTE Band 2

Lowest Channel / 10MHz / QPSK



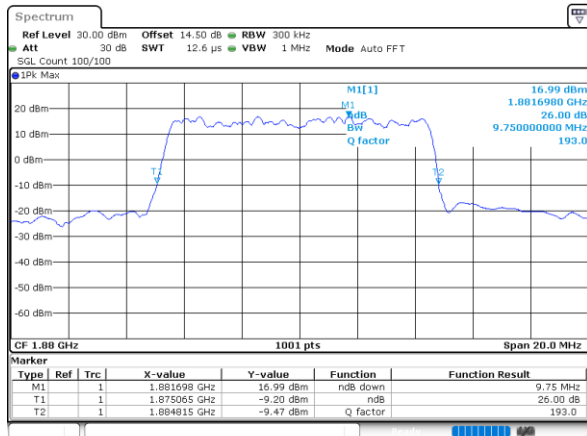
Date: 13.JAN.2022 03:01:23

Lowest Channel / 10MHz / 16QAM



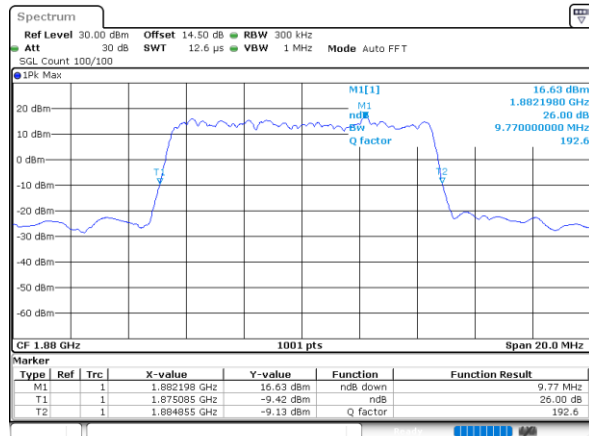
Date: 13.JAN.2022 03:01:49

Middle Channel / 10MHz / QPSK



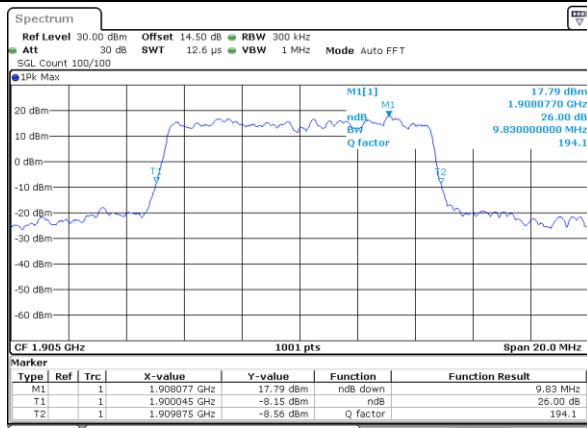
Date: 13.JAN.2022 03:12:25

Middle Channel / 10MHz / 16QAM



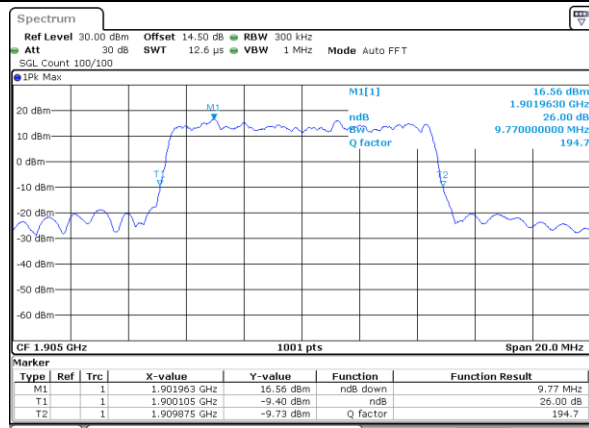
Date: 13.JAN.2022 03:12:50

Highest Channel / 10MHz / QPSK



Date: 13.JAN.2022 03:16:32

Highest Channel / 10MHz / 16QAM

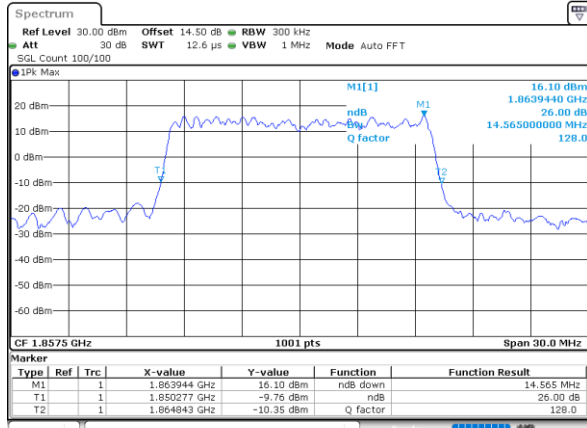


Date: 13.JAN.2022 03:16:57



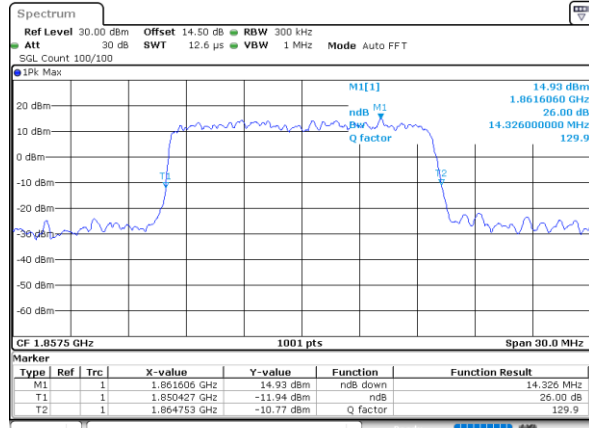
LTE Band 2

Lowest Channel / 15MHz / QPSK



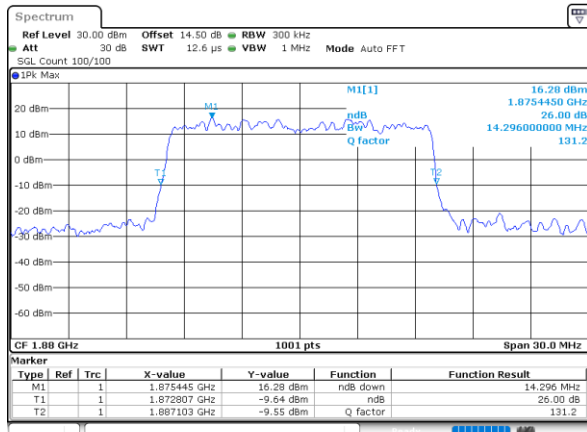
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Lowest Channel / 15MHz / 16QAM



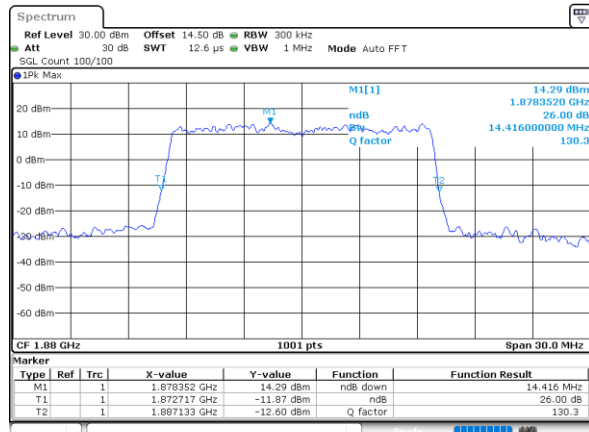
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Middle Channel / 15MHz / QPSK



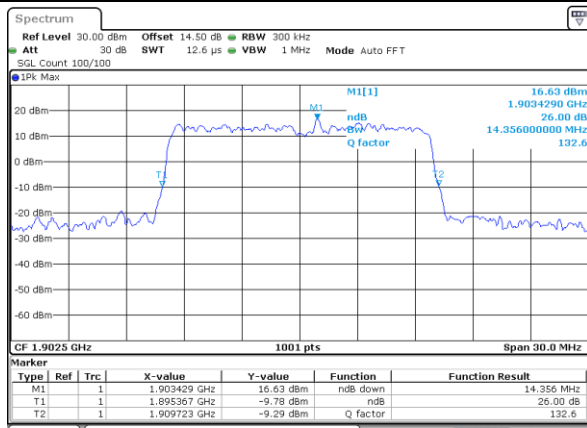
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Middle Channel / 15MHz / 16QAM



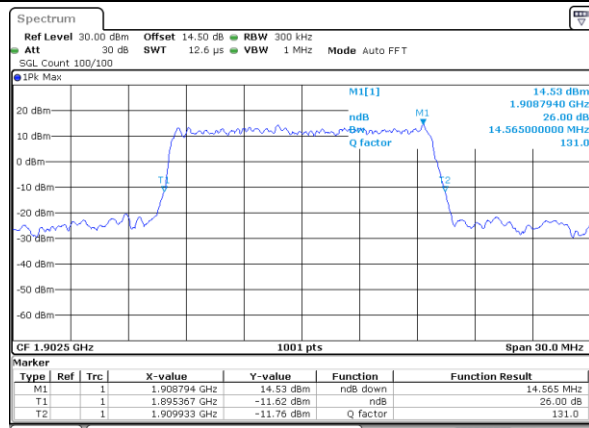
Date: 13_JAN_2022 03:39:01

Highest Channel / 15MHz / QPSK



Date: 13_JAN_2022 03:42:43

Highest Channel / 15MHz / 16QAM

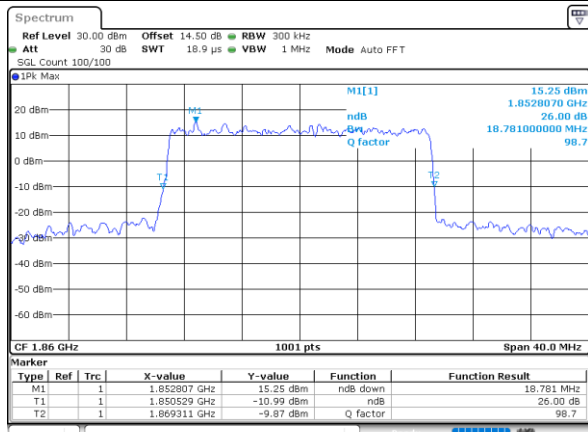


Date: 13_JAN_2022 03:43:08



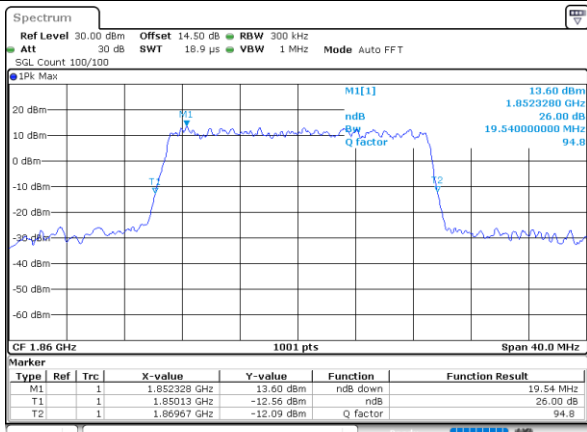
LTE Band 2

Lowest Channel / 20MHz / QPSK



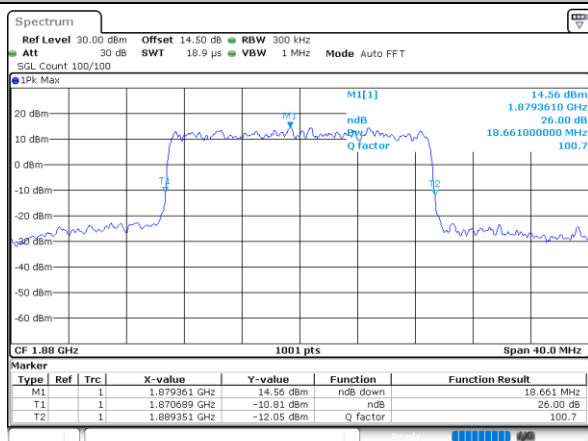
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Lowest Channel / 20MHz / 16QAM



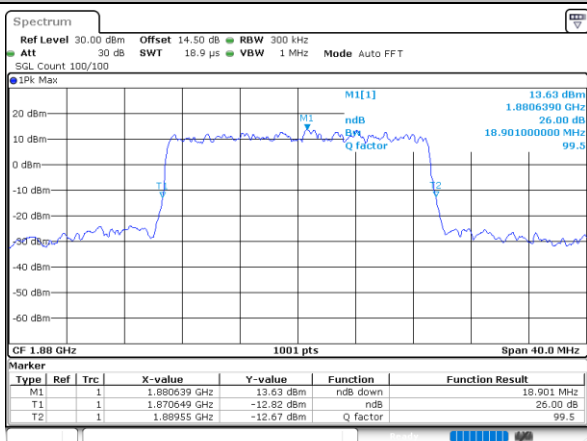
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Middle Channel / 20MHz / QPSK



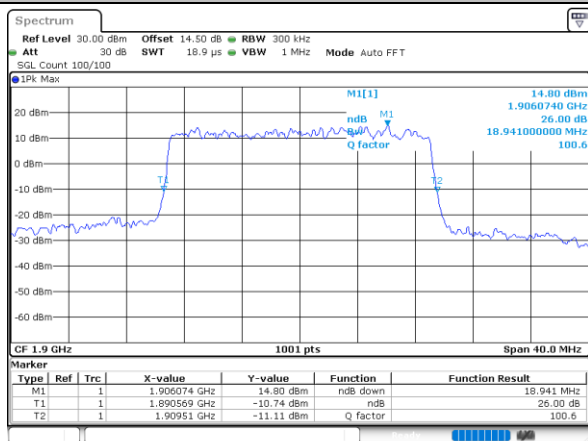
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Middle Channel / 20MHz / 16QAM



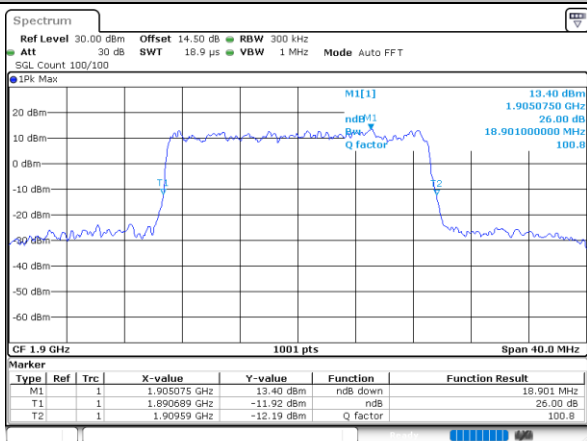
Date: 13.JAN.2022 04:05:13

Highest Channel / 20MHz / QPSK



Date: 13.JAN.2022 04:08:55

Highest Channel / 20MHz / 16QAM

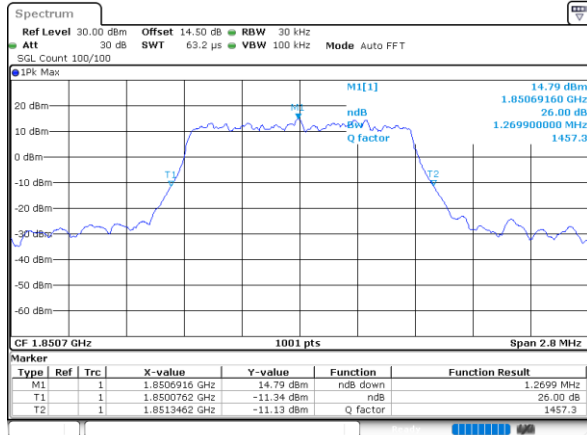


Date: 13.JAN.2022 04:09:20

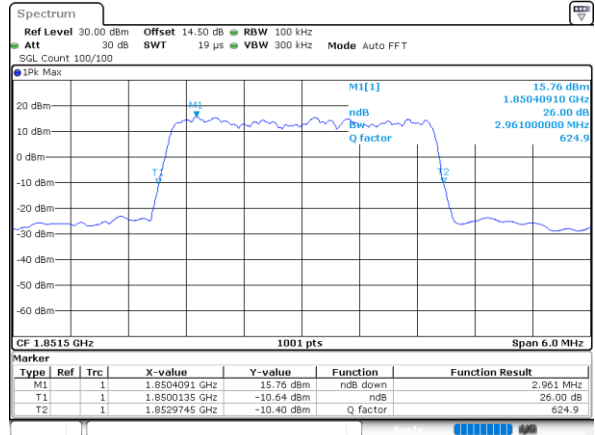


LTE Band 2

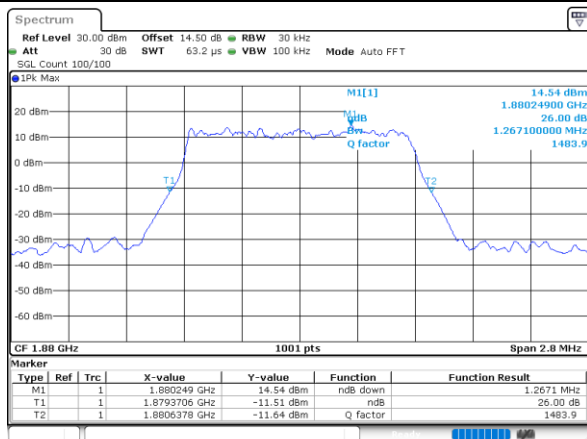
Lowest Channel / 1.4MHz / 64QAM



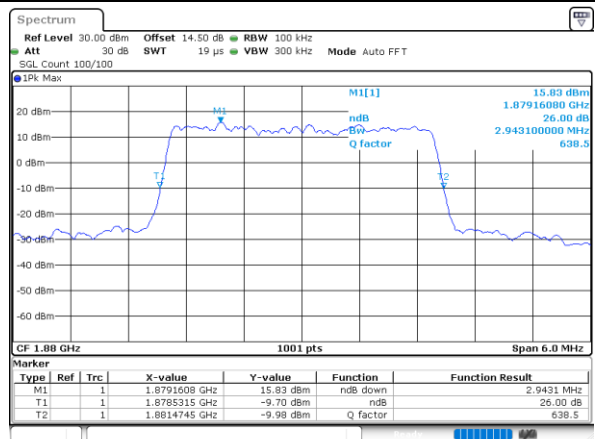
Lowest Channel / 3MHz / 64QAM



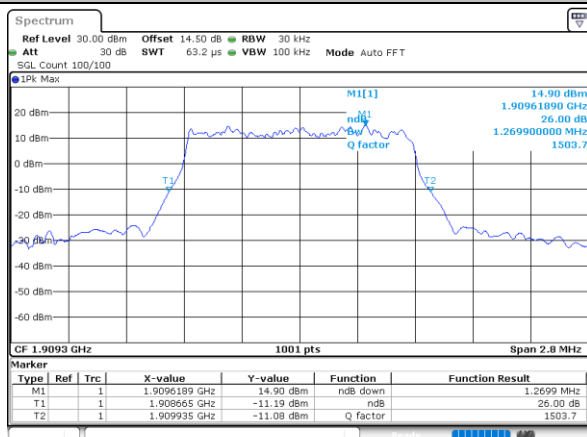
Middle Channel / 1.4MHz / 64QAM



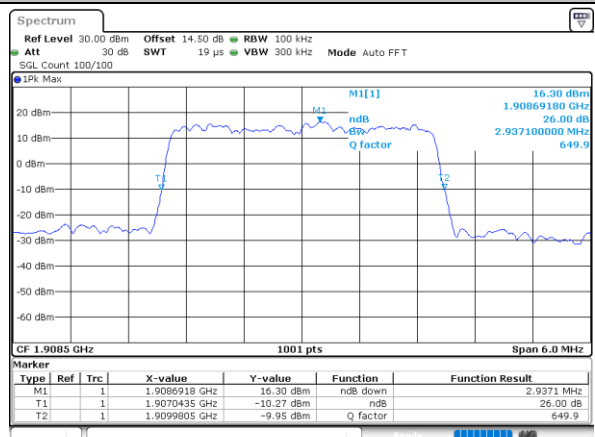
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM



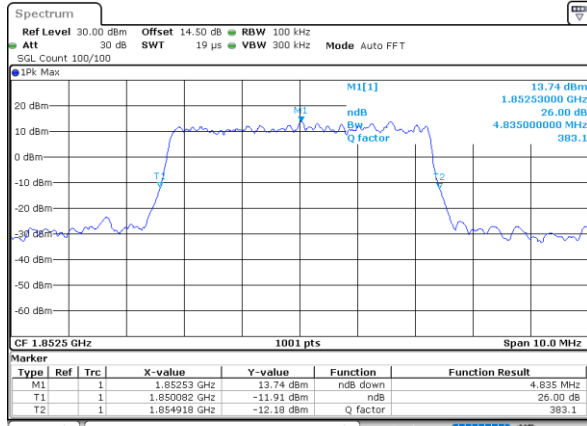
Highest Channel / 3MHz / 64QAM





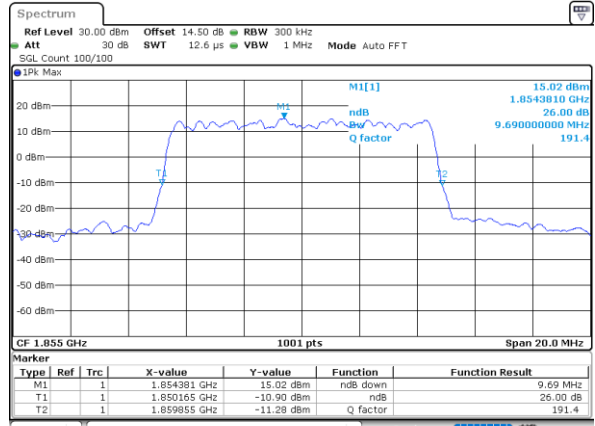
LTE Band 2

Lowest Channel / 5MHz / 64QAM



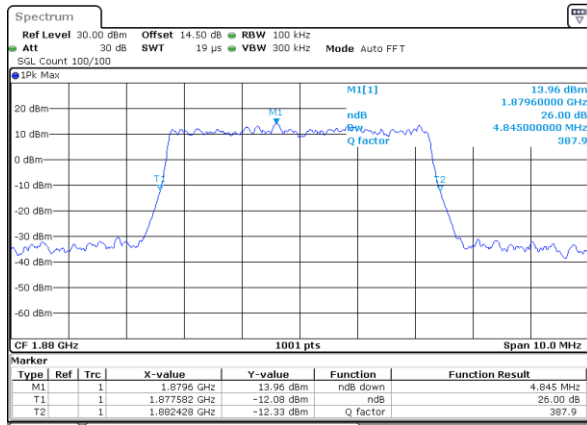
Date: 13.JAN.2022 04:31:57

Lowest Channel / 10MHz / 64QAM



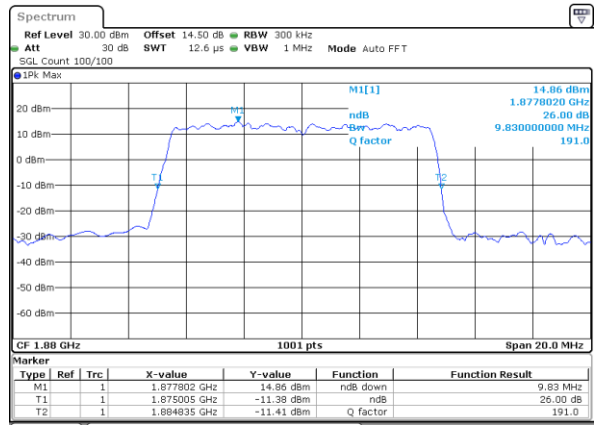
Date: 13.JAN.2022 04:44:31

Middle Channel / 5MHz / 64QAM



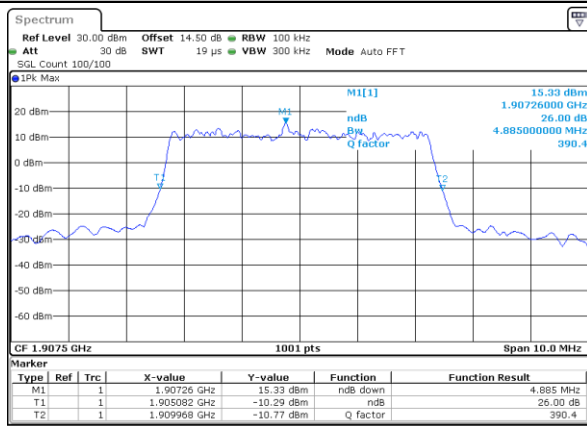
Date: 13.JAN.2022 04:37:17

Middle Channel / 10MHz / 64QAM



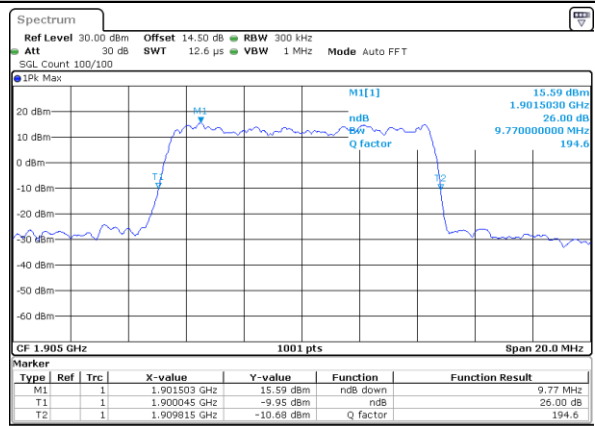
Date: 13.JAN.2022 04:49:52

Highest Channel / 5MHz / 64QAM



Date: 13.JAN.2022 04:39:10

Highest Channel / 10MHz / 64QAM

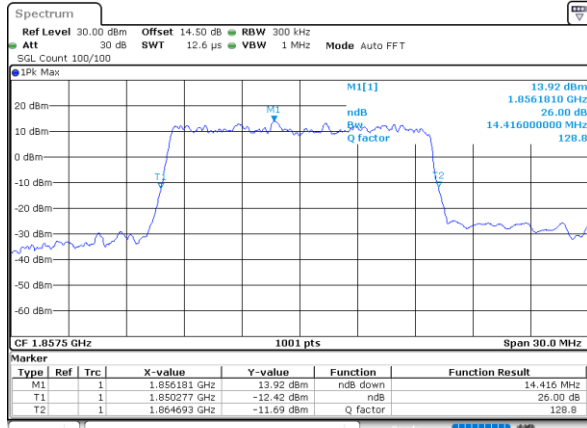


Date: 13.JAN.2022 04:51:45

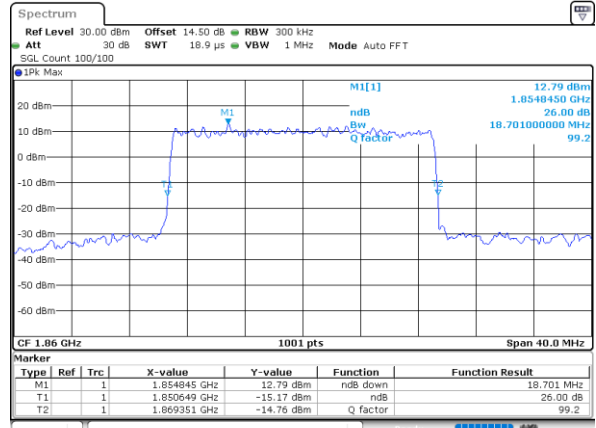


LTE Band 2

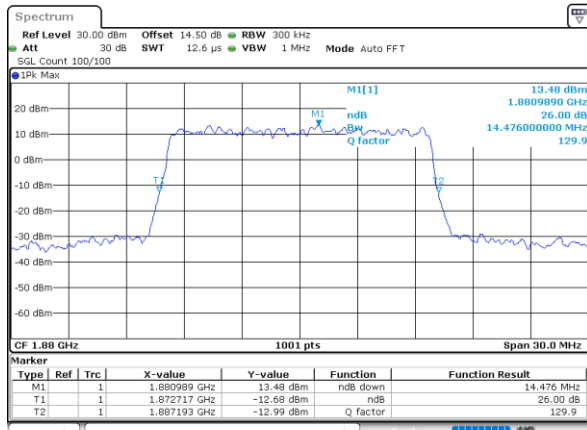
Lowest Channel / 15MHz / 64QAM



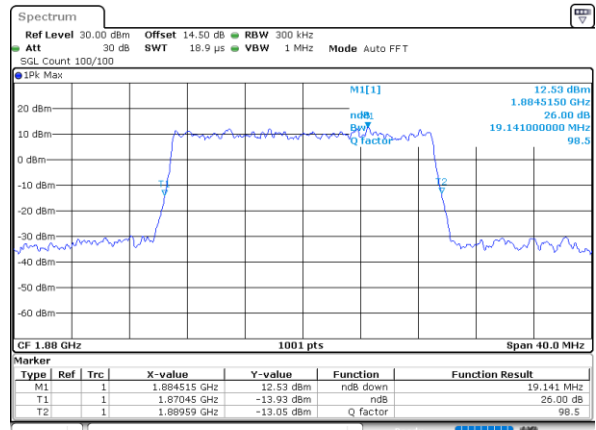
Lowest Channel / 20MHz / 64QAM



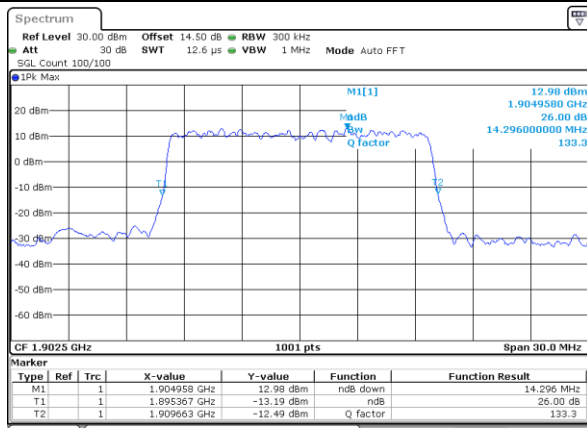
Middle Channel / 15MHz / 64QAM



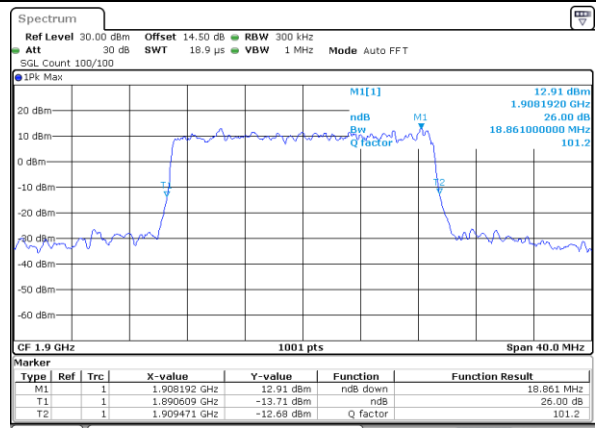
Middle Channel / 20MHz / 64QAM



Highest Channel / 15MHz / 64QAM



Highest Channel / 20MHz / 64QAM



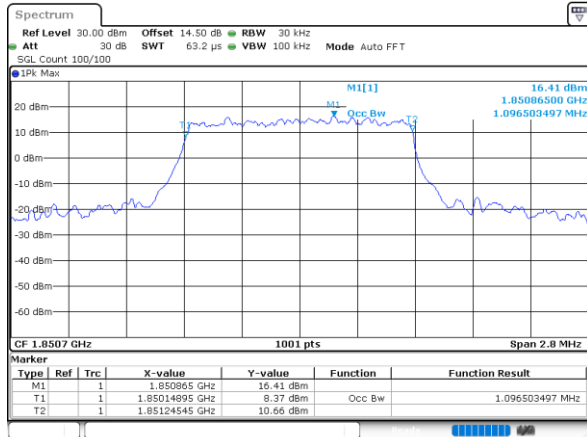
**Occupied Bandwidth**

Mode	LTE Band 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	1.10	1.09	2.72	2.72	4.49	4.50	9.07	9.01	13.37	13.49	17.82	17.82
Middle CH	1.09	1.09	2.72	2.71	4.49	4.51	9.03	8.99	13.40	13.43	17.86	17.94
Highest CH	1.09	1.09	2.72	2.72	4.49	4.49	9.05	9.07	13.43	13.46	17.90	17.98
Mode	LTE Band 2 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.10	-	2.73	-	4.50	-	9.03	-	13.40	-	17.94	-
Middle CH	1.10	-	2.73	-	4.51	-	9.05	-	13.43	-	17.86	-
Highest CH	1.09	-	2.70	-	4.50	-	9.03	-	13.43	-	17.86	-

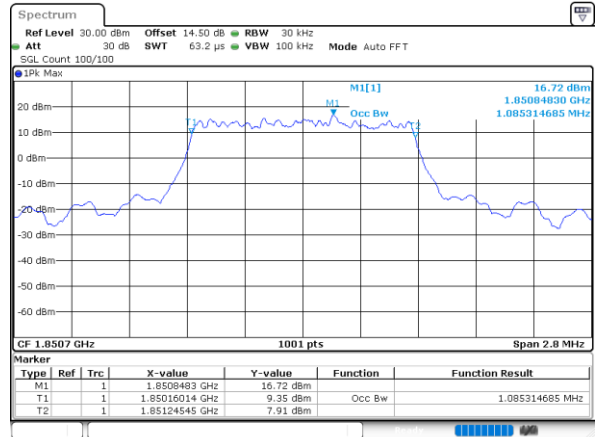


LTE Band 2

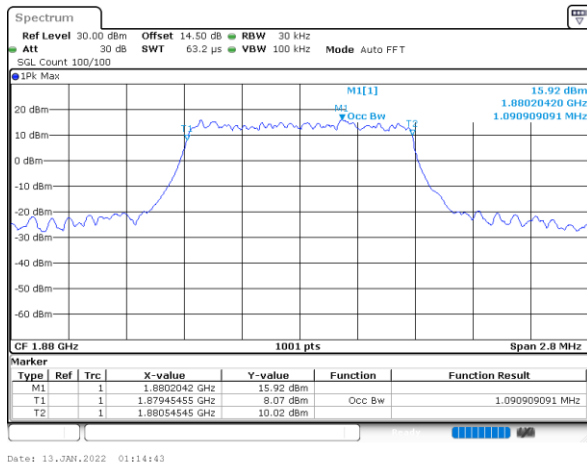
Lowest Channel / 1.4MHz / QPSK



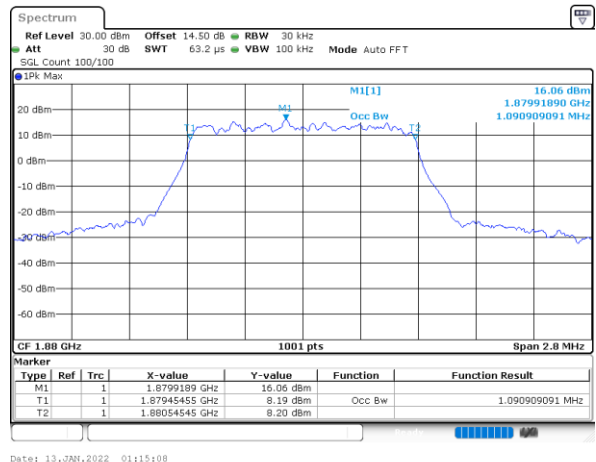
Lowest Channel / 1.4MHz / 16QAM



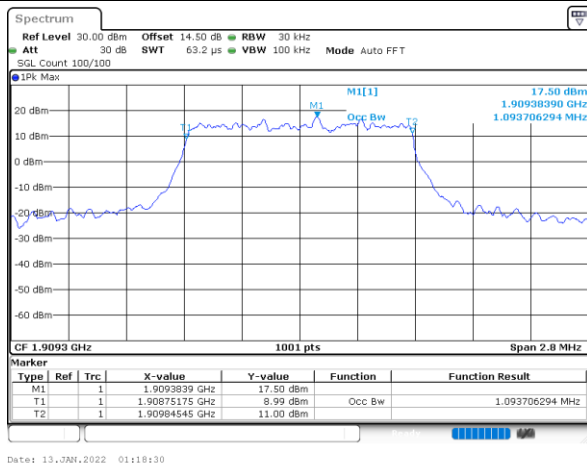
Middle Channel / 1.4MHz / QPSK



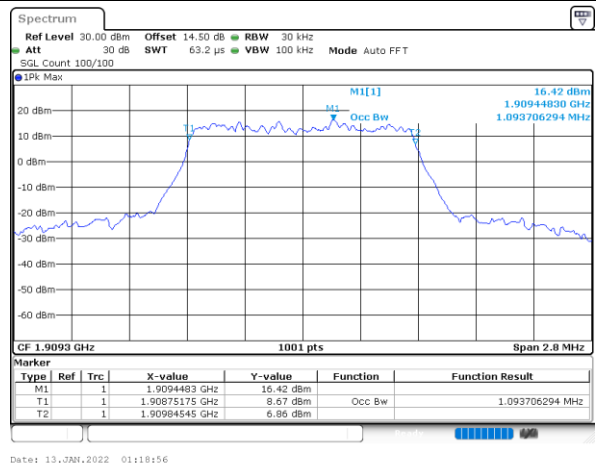
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



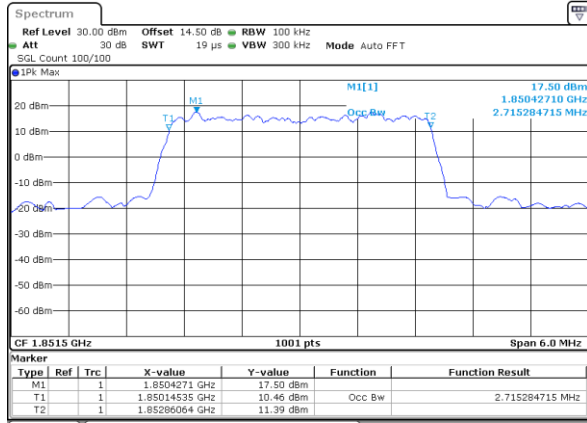
Highest Channel / 1.4MHz / 16QAM





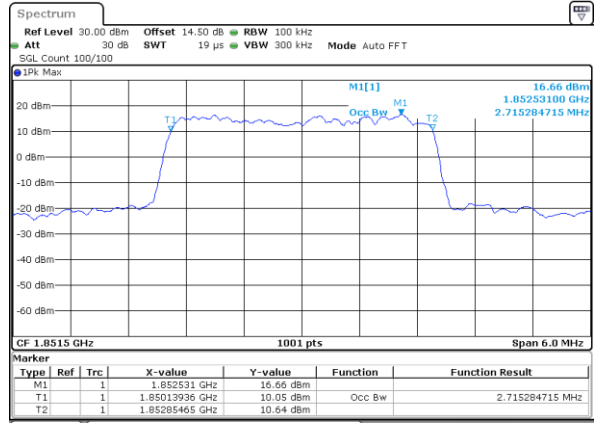
LTE Band 2

Lowest Channel / 3MHz / QPSK



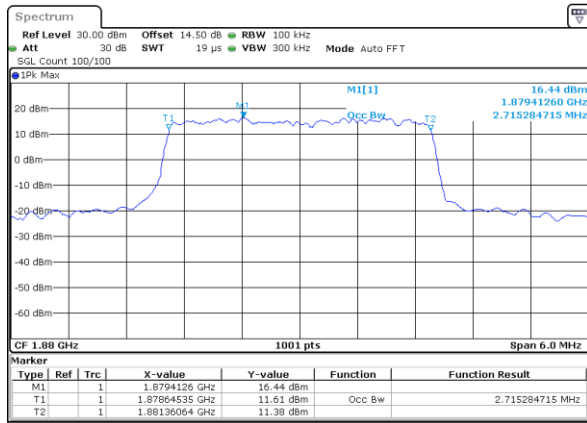
Date: 13.JAN.2022 01:29:16

Lowest Channel / 3MHz / 16QAM



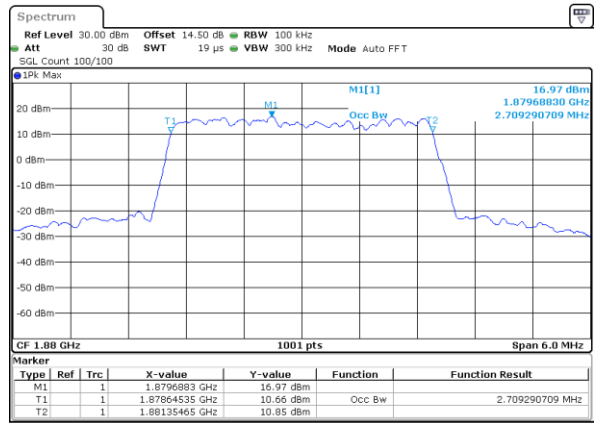
Date: 13.JAN.2022 01:29:42

Middle Channel / 3MHz / QPSK



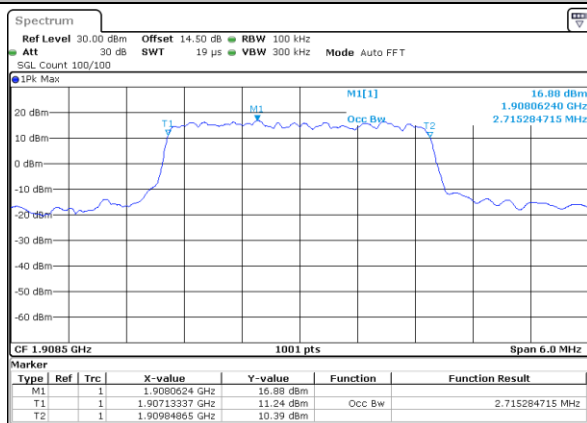
Date: 13.JAN.2022 01:40:01

Middle Channel / 3MHz / 16QAM



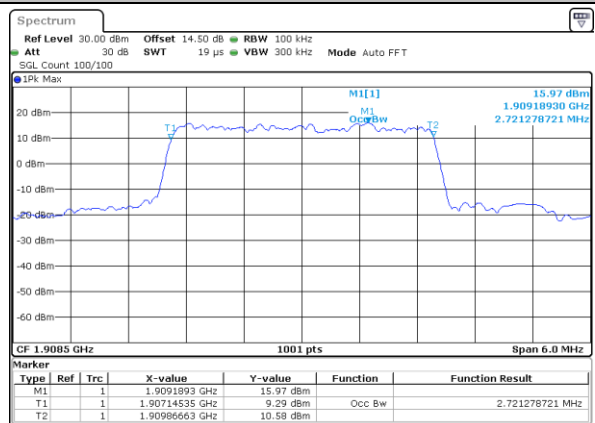
Date: 13.JAN.2022 01:40:26

Highest Channel / 3MHz / QPSK



Date: 13.JAN.2022 02:23:21

Highest Channel / 3MHz / 16QAM

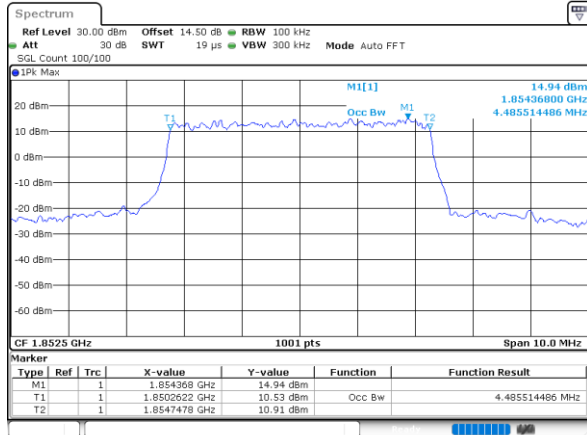


Date: 13.JAN.2022 02:23:45



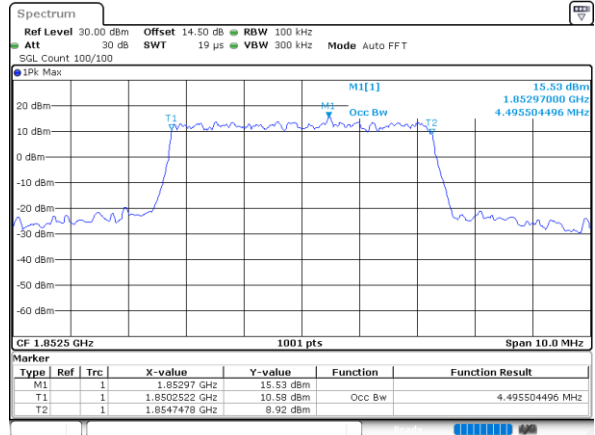
LTE Band 2

Lowest Channel / 5MHz / QPSK



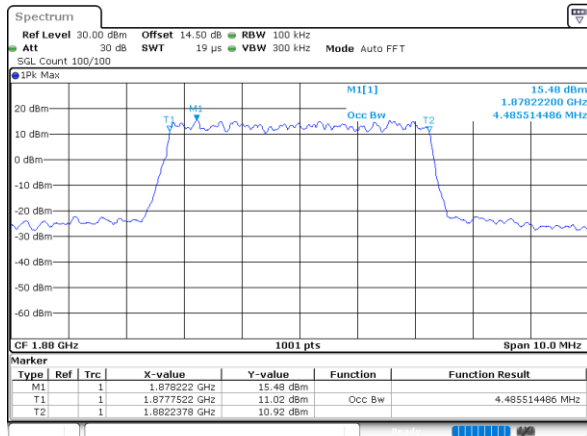
Date: 13.JAN.2022 02:13:20

Lowest Channel / 5MHz / 16QAM



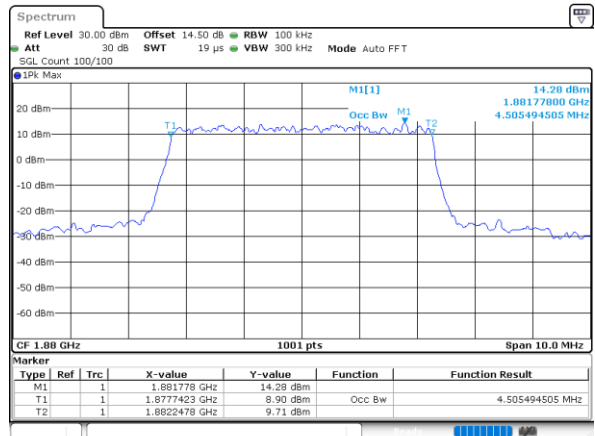
Date: 13.JAN.2022 02:13:45

Middle Channel / 5MHz / QPSK



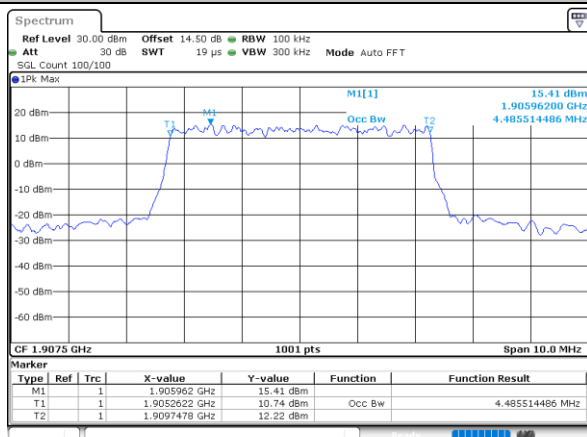
Date: 13.JAN.2022 02:45:23

Middle Channel / 5MHz / 16QAM



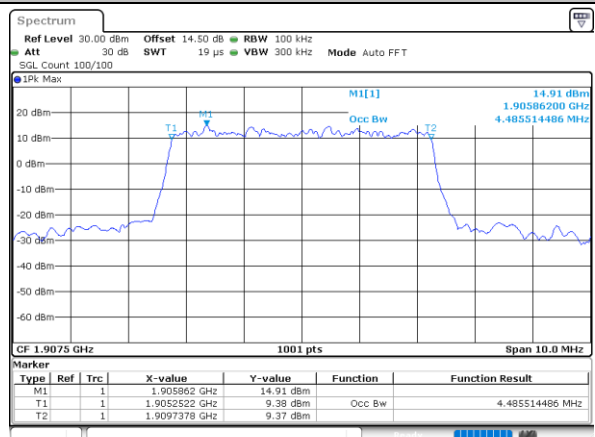
Date: 13.JAN.2022 02:45:48

Highest Channel / 5MHz / QPSK



Date: 13.JAN.2022 02:49:29

Highest Channel / 5MHz / 16QAM

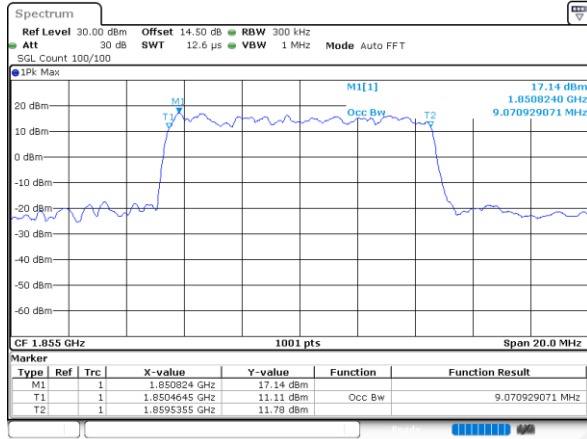


Date: 13.JAN.2022 02:49:55

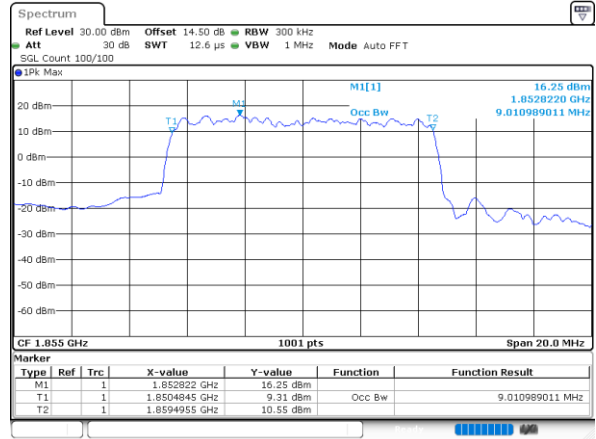


LTE Band 2

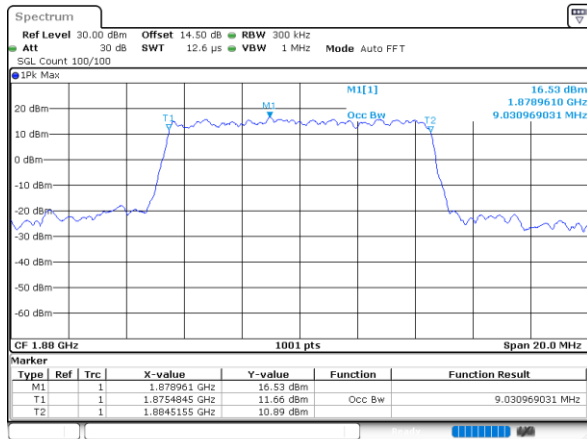
Lowest Channel / 10MHz / QPSK



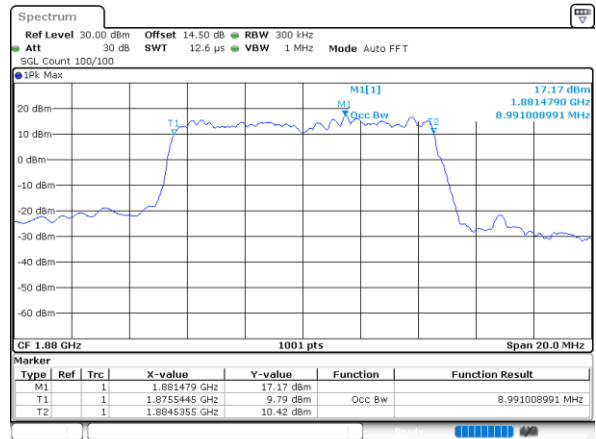
Lowest Channel / 10MHz / 16QAM



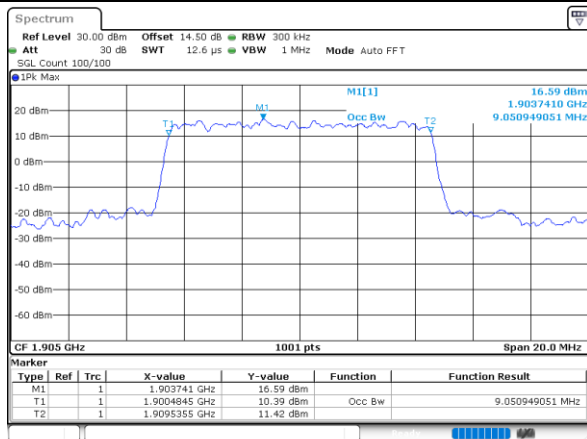
Middle Channel / 10MHz / QPSK



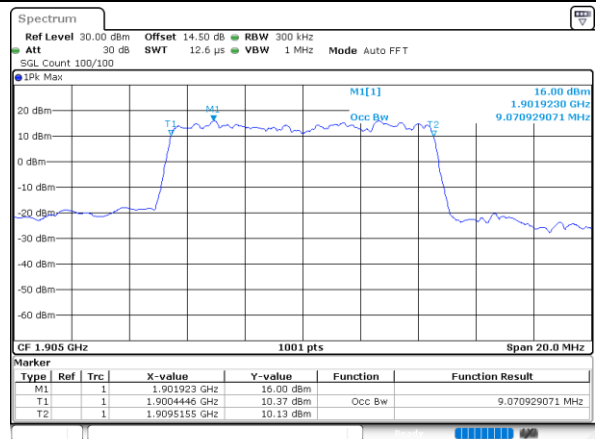
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



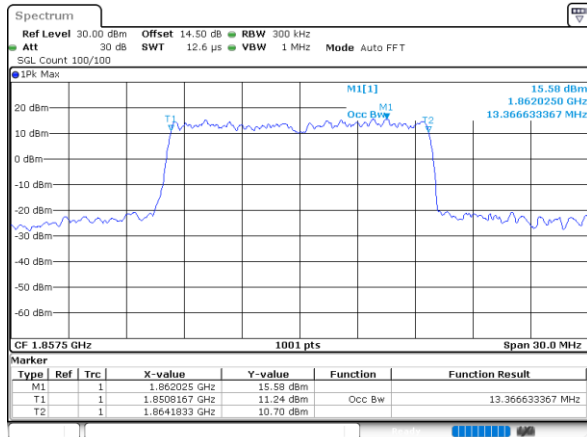
Highest Channel / 10MHz / 16QAM





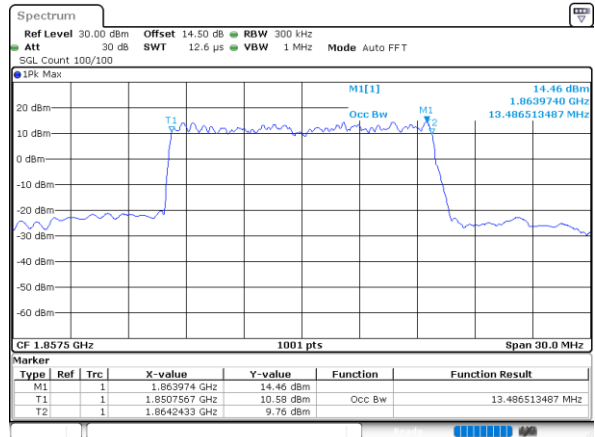
LTE Band 2

Lowest Channel / 15MHz / QPSK



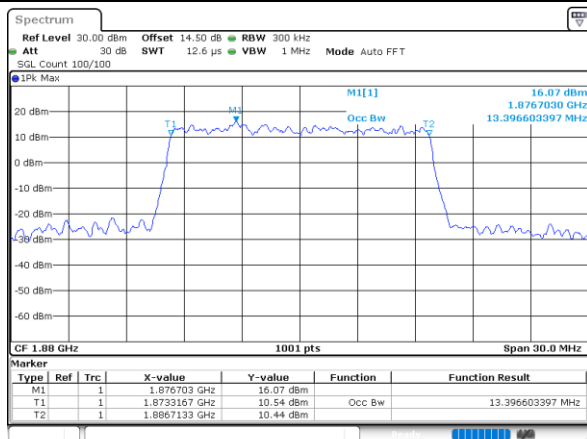
Date: 13.JAN.2022 03:26:45

Lowest Channel / 15MHz / 16QAM



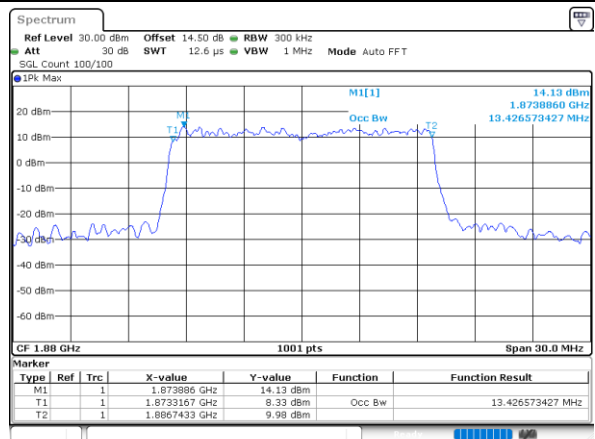
Date: 13.JAN.2022 03:27:10

Middle Channel / 15MHz / QPSK



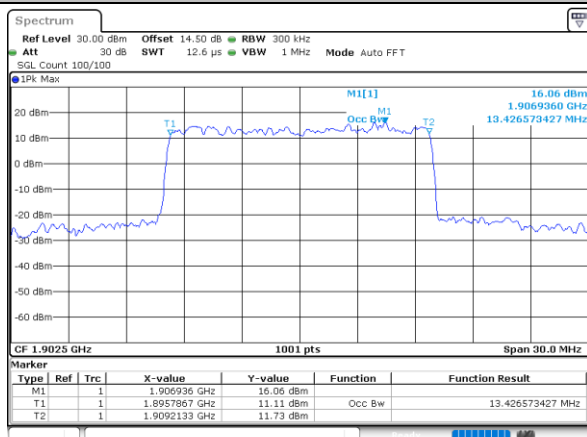
Date: 13.JAN.2022 03:37:47

Middle Channel / 15MHz / 16QAM



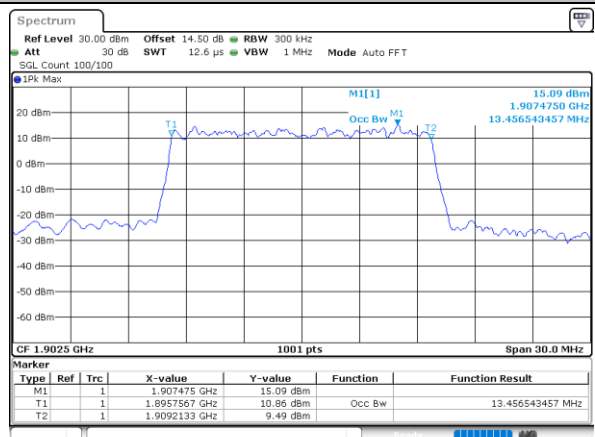
Date: 13.JAN.2022 03:38:12

Highest Channel / 15MHz / QPSK



Date: 13.JAN.2022 03:41:53

Highest Channel / 15MHz / 16QAM

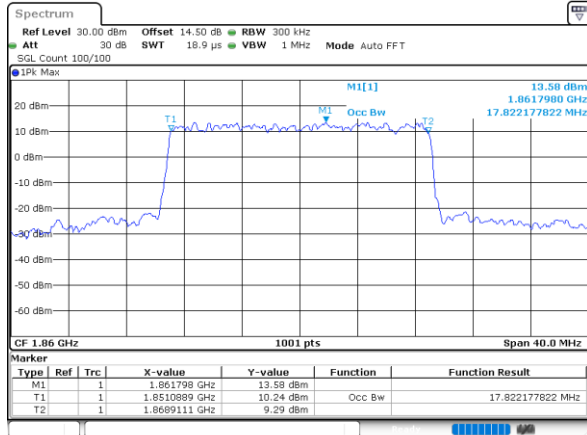


Date: 13.JAN.2022 03:42:18



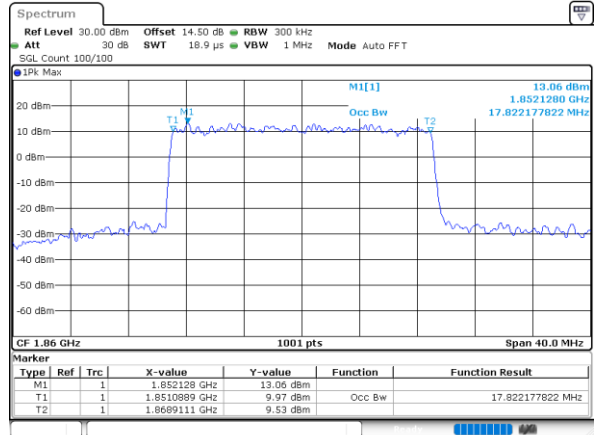
LTE Band 2

Lowest Channel / 20MHz / QPSK



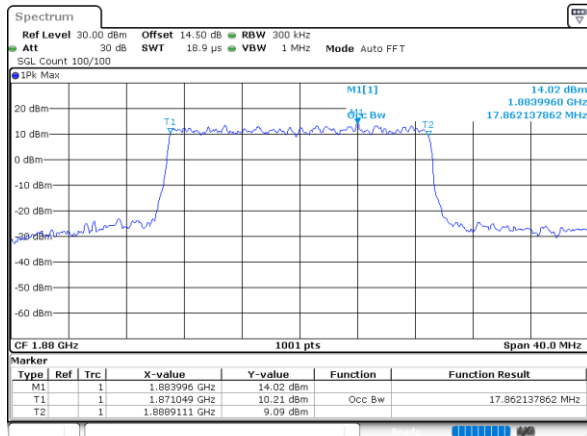
Date: 13.JAN.2022 03:52:56

Lowest Channel / 20MHz / 16QAM



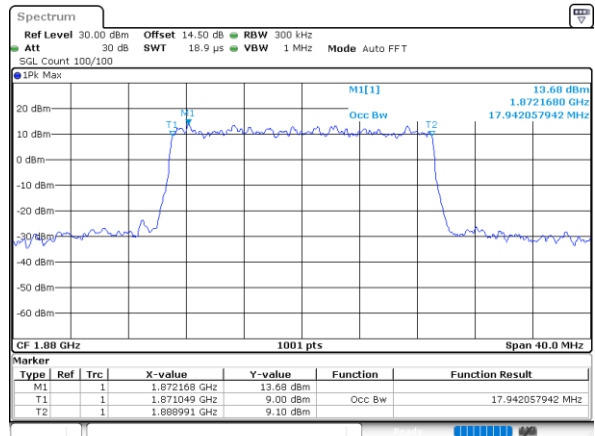
Date: 13.JAN.2022 03:53:21

Middle Channel / 20MHz / QPSK



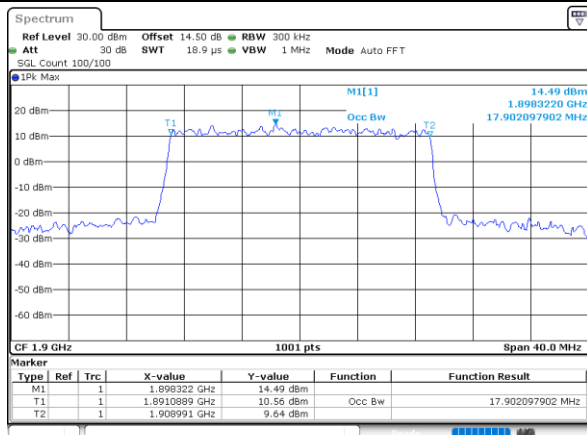
Date: 13.JAN.2022 04:03:08

Middle Channel / 20MHz / 16QAM



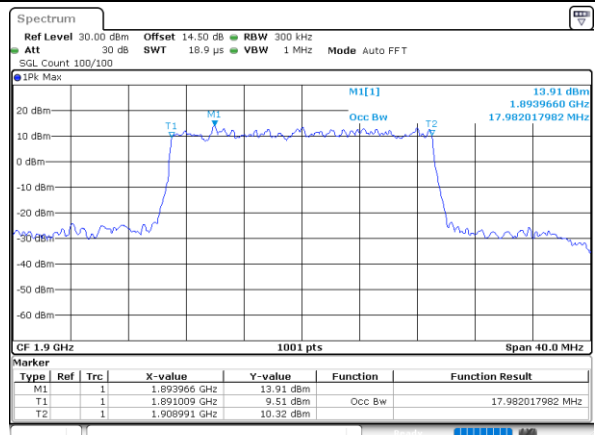
Date: 13.JAN.2022 04:04:23

Highest Channel / 20MHz / QPSK



Date: 13.JAN.2022 04:08:04

Highest Channel / 20MHz / 16QAM



Date: 13.JAN.2022 04:08:30