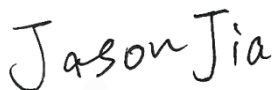


FCC RF Test Report

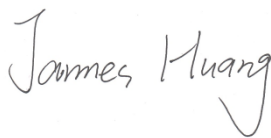
APPLICANT : Airspan Networks Inc.
EQUIPMENT : AirSpot 312,LTE ODU B42, B43, B48, CAT 6, US
BRAND NAME : Airspan
MODEL NAME : My-Pro-ZM-B42-B43-B48-C6-US
FCC ID : PIDAS312A
STANDARD : 47 CFR Part 2, 96
CLASSIFICATION : Citizens Band Category A and B Devices (CBD)
EQUIPMENT TYPE : CPE-CBSD (Category B)

The product was received on Dec. 19, 2019 and completely tested on Apr. 10, 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.



Reviewed by: Jason Jia / Supervisor



Approved by: James Huang / Manager



Sporton International (Kunshan) Inc.

**No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China**

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History of this test report

Report No.	Version	Description	Issued Date
FG9D1911A	01	Initial issue of report	Apr. 13, 2020

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046 §96.41	Conducted Output Power	Reporting only	-
3.3	§96.41	Peak-to-Average Ratio	Pass	
3.4	§96.41	Maximum E.I.R.P	Pass	-
		Maximum Power Spectral Density	Pass	-
3.5	§2.1049	Occupied Bandwidth	Reporting only	-
3.6	§2.1051 §96.41	Conducted Band Edge Measurement	Pass	-
3.7	§2.1051 §96.41	Conducted Spurious Emission	Pass	
3.8	§2.1055	Frequency Stability for Temperature & Voltage	Pass	-
4.4	§2.1053 §96.41	Radiated Spurious Emission	Pass	Under limit 3.62 dB at 7104.000 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

Airspan Networks Inc.

777 Yamato Rd, Suite 310, Boca Raton, Florida, 33431

1.2 Manufacturer

Airspan Networks Inc.

777 Yamato Rd, Suite 310, Boca Raton, Florida, 33431

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	AirSpot 312,LTE ODU B42, B43, B48, CAT 6, US
Brand Name	Airspan
Model Name	My-Pro-ZM-B42-B43-B48-C6-US
FCC ID	PIDAS312A
Tx Frequency	LTE Band 48: 3552.5 MHz ~ 3697.5 MHz
Rx Frequency	LTE Band 48: 3552.5 MHz ~ 3697.5 MHz
Bandwidth	5MHz / 10MHz / 15MHz / 20MHz
Antenna Gain / Type	14.00 dBi / Fixed Internal Antenna
Type of Modulation	QPSK / 16QAM / 64QAM
HW Version	V1.0
SW Version	MG6_0.3.2.20_V0.4_CBSD-T14b
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Maximum EIRP Power, Frequency Tolerance, and Emission Designator

LTE Band 48		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	3552.5~3697.5	4M54G7D	-	2.8708	4M52W7D	-	2.3714
10	3555~3695	9M05G7D	0.0017	3.4435	9M07W7D	-	2.8119
15	3557.5~3692.5	13M6G7D	-	3.3420	13M5W7D	-	2.5823
20	3560~3690	18M5G7D	-	3.8107	18M5W7D	-	3.0339
LTE Band 48		64QAM					
BW (MHz)	Frequency Range (MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)		Maximum EIRP (W)		
5	3552.5~3697.5	4M49W7D	-		2.2594		
10	3555~3695	9M13W7D	-		2.6915		
15	3557.5~3692.5	13M5W7D	-		2.6002		
20	3560~3690	18M5W7D	-		2.8973		

1.5 Testing Site

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

1.6 Test Software

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

1.7 Applied Standards

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

- ♦ ANSI C63.26-2015
- ♦ 47 CFR Part 2, 96
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 940660 D01 Part 96 CBRS v02
- ♦ 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

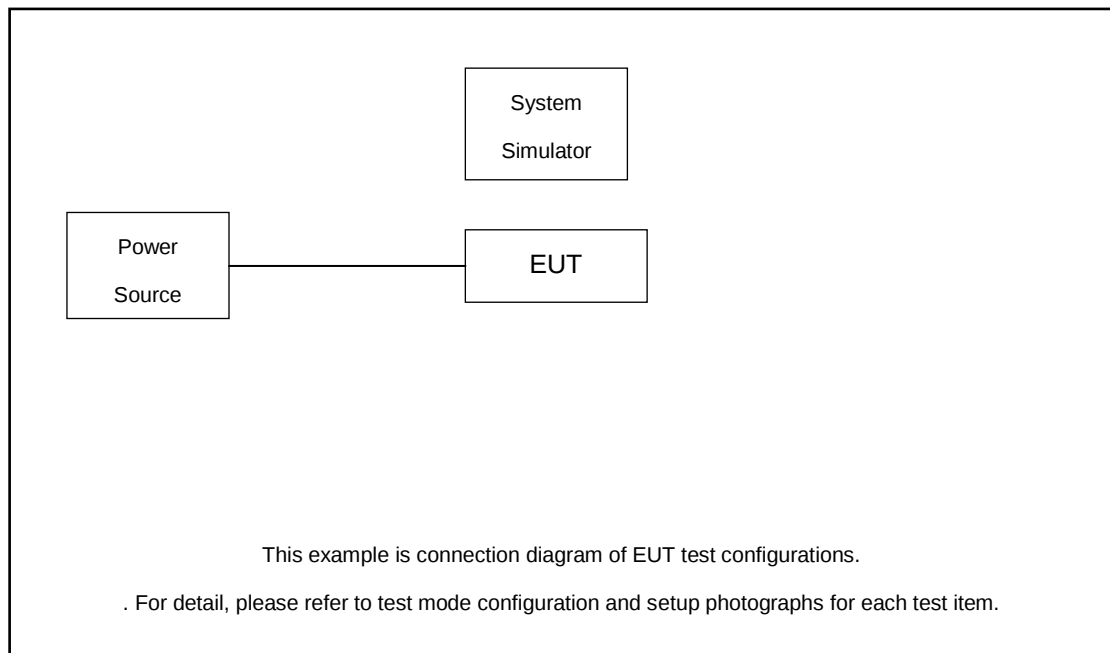
2.1 Test Mode

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.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

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	48	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v
Peak-to-Aver age Ratio	48	-	-				v	v	v	v	v		v	v	v	v
Max. EIRP	48	-	-	v	v	v	v	v	v	v	v			v	v	v
Max. EIRP Power Density	48	-	-	v	v	v	v	v	v	v	v		v	v	v	v
26dB and 99% Bandwidth	48	-	-	v	v	v	v	v	v	v			v	v	v	v
Conducted Band Edge	48	-	-	v	v	v	v	v	v	v	v		v	v	v	v
Conducted Spurious Emission	48	-	-	v	v	v	v	v	v	v	v		v	v	v	v
Frequency Stability	48	-	-		v			v	v	v	v			v	v	v
Radiated Spurious Emission	48	Worst Case												v	v	v
Remark	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

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.	LTE Base Station	Anritsu	MT8821C	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.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 6.0 dB.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 6.0 \text{ (dB)} \end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

LTE Band 48 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	55340	55990	56640
	Frequency	3560.0	3625.0	3690.0
15	Channel	55315	55990	56665
	Frequency	3557.5	3625.0	3692.5
10	Channel	55290	55990	56690
	Frequency	3555.0	3625.0	3695.0
5	Channel	55265	55990	56715
	Frequency	3552.5	3625.0	3697.5

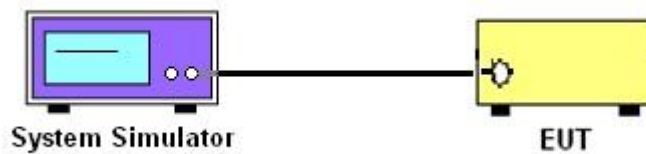
3 Conducted Test Items

3.1 Measuring Instruments

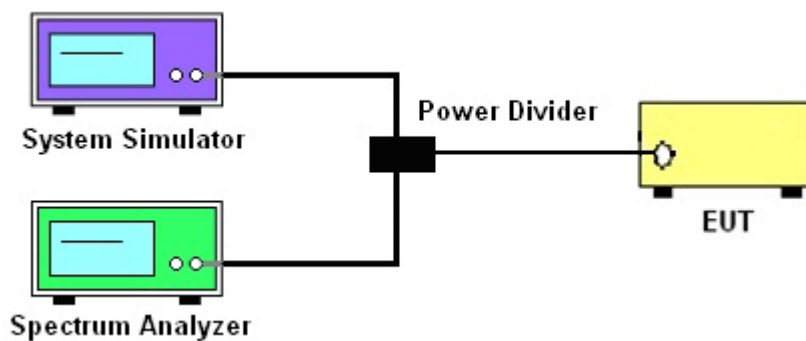
See list of measuring instruments of this test report.

3.1.1 Test Setup

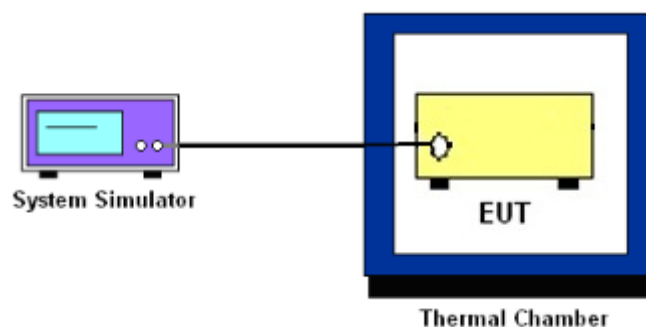
3.1.2 Conducted Output Power



3.1.3 EIRP, EIRP Power Density, Peak-to-Average Ratio, Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.

3.2 Conducted Output Power

3.2.1 Description of the Conducted Output Power 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.

3.2.2 Test Procedures

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

3.3 Peak-to-Average Ratio

3.3.1 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.

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

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

3.4 EIRP and Power Density

3.4.1 Description of the EIRP and Power Density Measurement

EIRP and PSD limits for CBRS equipment as below table:

Device		Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
☐	End User Device	23	n/a
☐	Category A CBSD	30	20
☒	Category B CBSD	47	37

Remark: Maximum PSD values are radiated. Measurements can be done conducted and add antenna gain back in.

3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.4.5

1. Set instrument center frequency to OBW center frequency.
2. Set span to at least 2 times the OBW.
3. Set the RBW to the specified reference bandwidth (often 1 MHz).
4. Set VBW $\geq 3 \times$ RBW.
5. Detector = RMS (power averaging).
6. Ensure that the number of measurement points in the sweep $\geq 2 \times$ span/RBW.
7. Sweep time = auto couple.
8. Employ trace averaging (RMS) mode over a minimum of 100 traces.
9. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD).
10. Determine the EIRP by adding the effective antenna gain to the adjusted power level.
11. Add 10 log (1/duty cycle) to the measured power level to compute the average power during continuous transmission.

The testing follows ANSI C63.26-2015 Section 5.2.5.5

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, 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

3.5 Occupied Bandwidth

3.5.1 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.

3.5.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. 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.
4. Set the detection mode to peak, and the trace mode to max hold.
5. 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)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. 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.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.6 Conducted Band Edge

3.6.1 Description of Conducted Band Edge Measurement

The limits for emission outside the fundamental are as follows:

Within 0 MHz to 10 MHz above and below the assigned channel ≤ -13 dBm/MHz

Greater than 10 MHz above and below the assigned channel ≤ -25 dBm/MHz

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used
5. Offset has included the duty factor for LTE Band 48. Duty factor $=10 \log (1/x)$, where x is the measured duty cycle.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

The limits for emission outside the fundamental are as follows:

The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz

3.7.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. 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.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
6. Offset has included the duty factor for LTE Band 48. Duty factor = $10 \log(1/x)$, where x is the measured duty cycle.
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.

3.8 Frequency Stability

3.8.1 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.

3.8.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. 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.
3. 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.

3.8.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

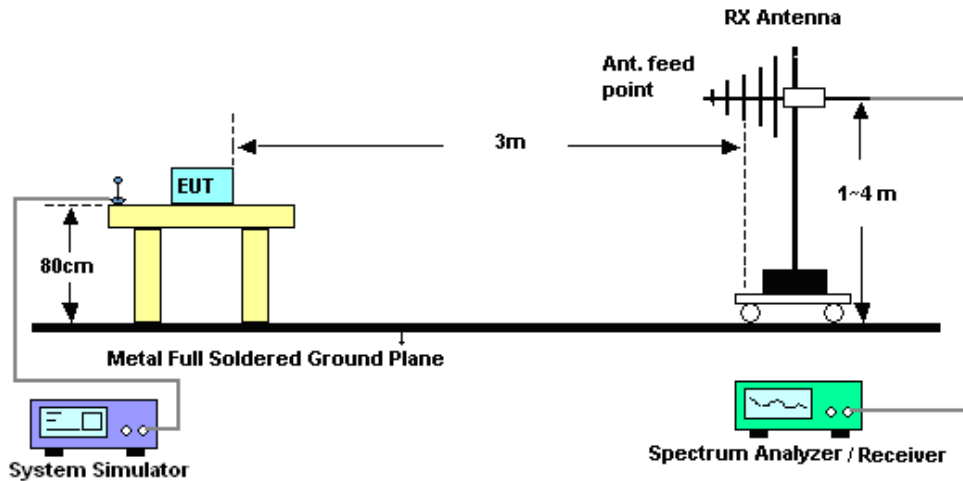
4 Radiated Test Items

4.1 Measuring Instruments

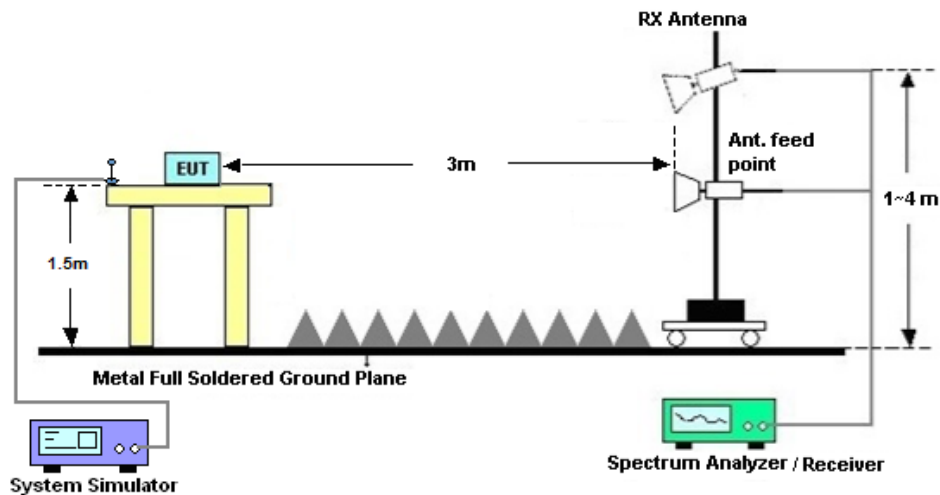
See list of measuring instruments of this test report.

4.2 Test Setup

For radiated emissions from 30MHz to 1GHz



For radiated emissions 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 Measurement

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 -40dBm / MHz.

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

4.4.2 Test Procedures

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

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	Apr. 04, 2020~ Apr. 10, 2020	Nov. 01, 2020	Conducted (TH01-KS)
Thermal Chamber	Ten Billion	TTC-B3S	TBN-9605 02	-40~+150°C	Nov. 19, 2019	Apr. 04, 2020~ Apr. 10, 2020	Nov. 18, 2020	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY551502 44	10Hz~44G,MAX 30dB	Apr. 16, 2019	Apr. 03, 2020	Apr. 15, 2020	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz~1GHz	May 30, 2019	Apr. 03, 2020	May 29, 2020	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 21, 2019	Apr. 03, 2020	Apr. 20, 2020	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2019	Apr. 03, 2020	Nov. 09, 2020	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz~1GHz	Aug. 06, 2019	Apr. 03, 2020	Aug. 05, 2020	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40GG A	060728	18~40GHz	Jan. 08, 2020	Apr. 03, 2020	Jan. 07, 2021	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-0010 1800-30-10P	2025788	1Ghz~18Ghz	Aug. 16, 2019	Apr. 03, 2020	Aug. 15, 2020	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY572801 06	500MHz~26.5G Hz	Apr. 15, 2019	Apr. 03, 2020	Apr. 14, 2020	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F1040900 04	N/A	NCR	Apr. 03, 2020	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Apr. 03, 2020	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Apr. 03, 2020	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

6 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.3dB
---	-------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.8dB
---	-------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.8dB
---	-------

Appendix A. Test Results of Conducted Test

Conducted Output Power (Average power)

LTE Band 48 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	19.86	20.56	21.63
20	1	49		19.60	20.07	21.30
20	1	99		19.94	20.74	21.81
20	50	0		18.49	18.99	20.16
20	50	24		18.46	19.00	20.40
20	50	50		18.55	19.15	20.32
20	100	0		18.51	19.05	20.21
20	1	0	16-QAM	18.91	19.51	20.51
20	1	49		18.61	18.99	20.39
20	1	99		18.95	19.77	20.82
20	50	0		17.45	17.90	19.21
20	50	24		17.40	17.90	19.25
20	50	50		17.50	18.05	19.40
20	100	0		17.47	17.95	19.29
20	1	0	64-QAM	18.71	19.28	20.22
20	1	49		18.49	18.81	20.16
20	1	99		19.18	19.64	20.62
20	50	0		17.69	18.05	19.32
20	50	24		17.61	18.06	19.40
20	50	50		17.73	18.22	19.52
20	100	0		17.80	18.21	19.50



LTE Band 48 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	19.28	19.13	20.45
15	1	37		19.02	18.93	20.25
15	1	74		19.31	19.86	21.24
15	36	0		17.73	18.00	19.69
15	36	20		17.78	18.11	19.82
15	36	39		17.72	17.99	19.71
15	75	0		17.73	18.07	19.77
15	1	0	16-QAM	18.19	18.56	19.97
15	1	37		17.95	18.14	20.04
15	1	74		18.23	18.76	20.12
15	36	0		16.51	16.78	18.45
15	36	20		16.59	16.93	18.62
15	36	39		16.53	16.81	18.52
15	75	0		16.56	16.94	18.64
15	1	0	64-QAM	17.94	18.29	19.93
15	1	37		17.76	17.94	19.86
15	1	74		18.05	18.56	20.15
15	36	0		16.67	16.97	18.71
15	36	20		16.77	17.16	18.89
15	36	39		16.78	17.05	18.79
15	75	0		16.79	17.16	18.89

LTE Band 48 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	19.27	19.82	21.29
10	1	25		19.32	19.78	21.37
10	1	49		19.33	19.82	21.26
10	25	0		18.03	18.46	20.08
10	25	12		18.16	18.68	20.17
10	25	25		18.09	18.55	19.92
10	50	0		18.05	18.54	20.02
10	1	0	16-QAM	18.30	18.79	20.17
10	1	25		18.34	18.69	20.49
10	1	49		18.33	18.76	20.14
10	25	0		16.91	17.30	18.89
10	25	12		17.05	17.53	18.99
10	25	25		16.98	17.40	19.00
10	50	0		16.99	17.45	18.90
10	1	0	64-QAM	18.29	18.54	19.90
10	1	25		18.21	18.50	20.30
10	1	49		18.44	18.61	20.19
10	25	0		17.11	17.45	19.01
10	25	12		17.26	17.70	19.14
10	25	25		17.20	17.62	19.14
10	50	0		17.24	17.62	19.07

LTE Band 48 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	18.80	19.13	20.57
5	1	12		18.86	19.15	20.58
5	1	24		18.79	19.15	20.44
5	12	0		18.04	18.28	19.93
5	12	7		17.80	18.01	19.66
5	12	13		17.70	17.88	19.52
5	25	0		17.78	18.12	19.62
5	1	0	16-QAM	17.79	18.04	19.69
5	1	12		17.89	18.10	19.75
5	1	24		17.82	18.11	19.62
5	12	0		16.86	17.10	18.71
5	12	7		16.62	16.84	18.43
5	12	13		16.51	16.71	18.29
5	25	0		16.64	16.99	18.44
5	1	0	64-QAM	17.56	17.92	19.43
5	1	12		17.72	18.03	19.54
5	1	24		17.66	18.05	19.45
5	12	0		17.03	17.22	18.90
5	12	7		16.81	17.02	18.63
5	12	13		16.71	16.90	18.53
5	25	0		16.83	17.11	18.61

EIRP

The worst case EIRP shown in this section is found with LTE operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths for LTE Band 48 (i.e. 5, 10, 15, 20MHz)

LTE Band 48 (GT - LC = 14.00 dB) QPSK									
Bandwidth	5M			10M			15M		
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm/10MHz)	18.86	19.15	20.58	19.32	19.78	21.37	19.31	19.86	21.24
Conducted Power (Watts/10MHz)	0.0769	0.0822	0.1143	0.0855	0.0951	0.1371	0.0853	0.0968	0.1330
EIRP (dBm/10MHz)	32.86	33.15	34.58	33.32	33.78	35.37	33.31	33.86	35.24
EIRP (Watts/10MHz)	1.9320	2.0654	2.8708	2.1478	2.3878	3.4435	2.1429	2.4322	3.3420

LTE Band 48 (GT - LC = 14.00 dB) QPSK			
Bandwidth	20M		
Channel	(Low)	(Mid)	(High)
Conducted Power (dBm/10MHz)	19.94	20.74	21.81
Conducted Power (Watts/10MHz)	0.0986	0.1186	0.1517
ERP (dBm/10MHz)	33.94	34.74	35.81
ERP (Watts/10MHz)	2.4774	2.9785	3.8107



LTE Band 48 (GT - LC = 14.00 dB) 16QAM									
Bandwidth	5M			10M			15M		
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm/10MHz)	17.89	18.10	19.75	18.34	18.69	20.49	18.23	18.76	20.12
Conducted Power (Watts/10MHz)	0.0615	0.0646	0.0944	0.0682	0.0740	0.1119	0.0665	0.0752	0.1028
EIRP (dBm/10MHz)	31.89	32.10	33.75	32.34	32.69	34.49	32.23	32.76	34.12
EIRP (Watts/10MHz)	1.5453	1.6218	2.3714	1.7140	1.8578	2.8119	1.6711	1.8880	2.5823

LTE Band 48 (GT - LC = 14.00 dB) 16QAM			
Bandwidth	20M		
Channel	(Low)	(Mid)	(High)
Conducted Power (dBm/10MHz)	18.95	19.77	20.82
Conducted Power (Watts/10MHz)	0.0785	0.0948	0.1208
ERP (dBm/10MHz)	32.95	33.77	34.82
ERP (Watts/10MHz)	1.9724	2.3823	3.0339

LTE Band 48 (GT - LC = 14.00 dB) 64QAM									
Bandwidth	5M			10M			15M		
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm/10MHz)	17.72	18.03	19.54	18.21	18.50	20.30	18.05	18.56	20.15
Conducted Power (Watts/10MHz)	0.0592	0.0635	0.0899	0.0662	0.0708	0.1072	0.0638	0.0718	0.1035
EIRP (dBm/10MHz)	31.72	32.03	33.54	32.21	32.50	34.30	32.05	32.56	34.15
EIRP (Watts/10MHz)	1.4859	1.5959	2.2594	1.6634	1.7783	2.6915	1.6032	1.8030	2.6002

LTE Band 48 (GT - LC = 14.00 dB) 64QAM			
Bandwidth	20M		
Channel	(Low)	(Mid)	(High)
Conducted Power (dBm/10MHz)	19.18	19.64	20.62
Conducted Power (Watts/10MHz)	0.0828	0.0920	0.1153
ERP (dBm/10MHz)	33.18	33.64	34.62
ERP (Watts/10MHz)	2.0797	2.3121	2.8973

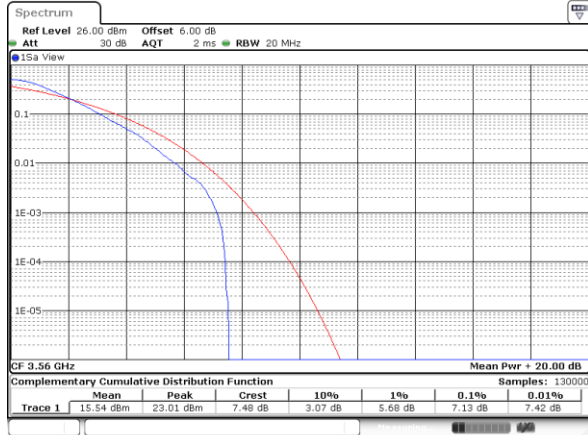
Limit	47dBm / 10MHz
Result	Pass

Peak-to-Average Ratio

Mode	LTE Band 48 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	7.13	6.93	7.71	6.93	PASS
Middle CH	7.57	5.80	8.41	7.80	
Highest CH	7.22	6.14	8.03	6.78	
Mode	LTE Band 48 / 20MHz				
Mod.	64QAM		-		Limit: 13dB
RB Size	1RB	Full RB	-	-	Result
Lowest CH	6.96	6.43	-	-	PASS
Middle CH	6.96	6.32	-	-	
Highest CH	8.03	6.55	-	-	

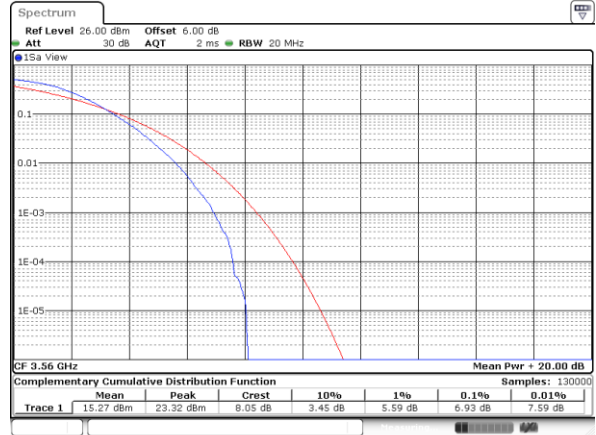
LTE Band 48 / 20MHz / QPSK

Lowest Channel / 1RB



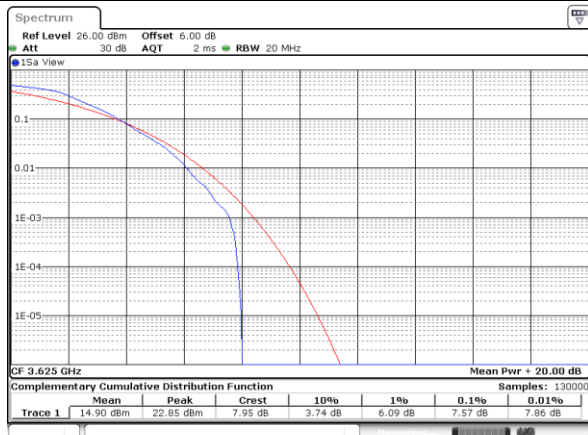
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Lowest Channel / Full RB



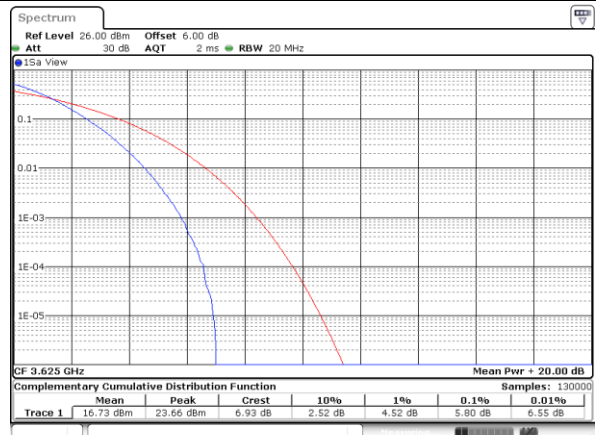
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Middle Channel / 1RB



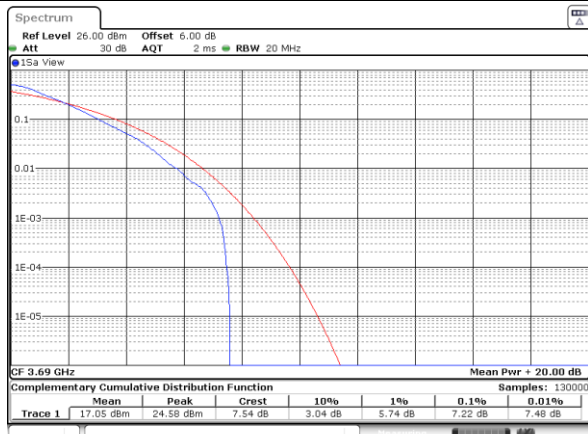
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Middle Channel / Full RB



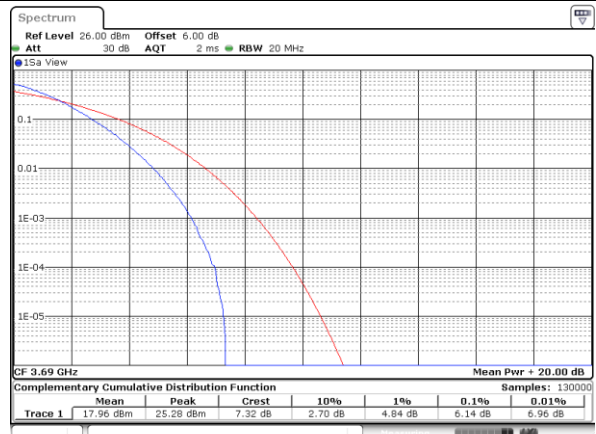
Date: 4 APR 2020 03:38:26

Highest Channel / 1RB



Date: 4 APR 2020 04:18:30

Highest Channel / Full RB

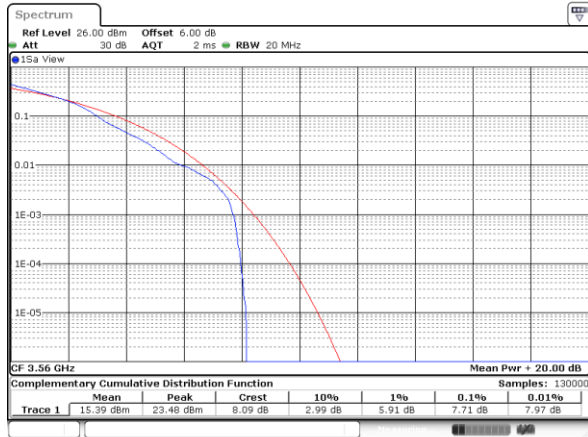


Date: 4 APR 2020 03:45:17



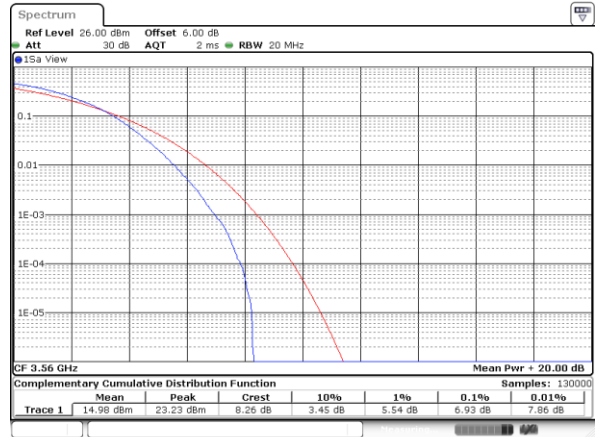
LTE Band 48 / 20MHz / 16QAM

Lowest Channel / 1RB



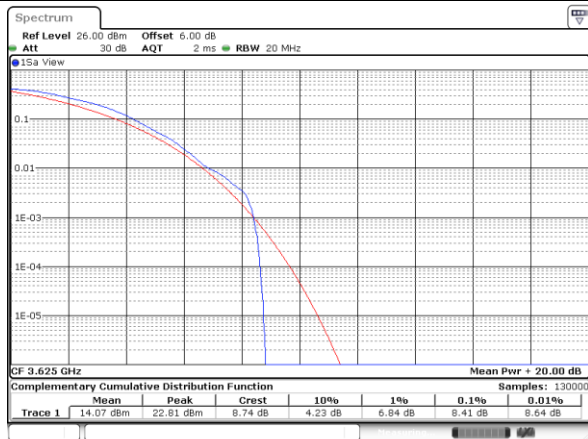
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Lowest Channel / Full RB



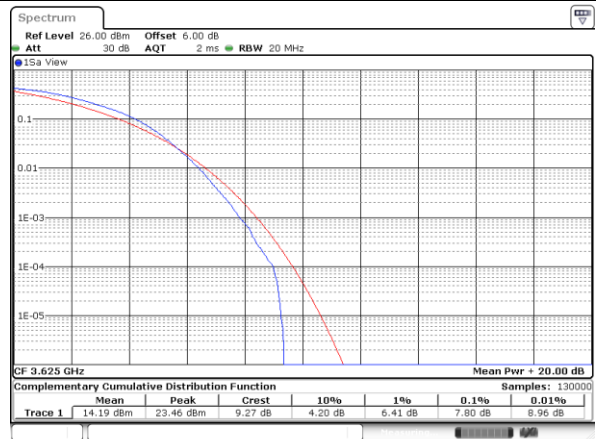
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Middle Channel / 1RB



Date: 4 APR 2020 03:37:30

Middle Channel / Full RB



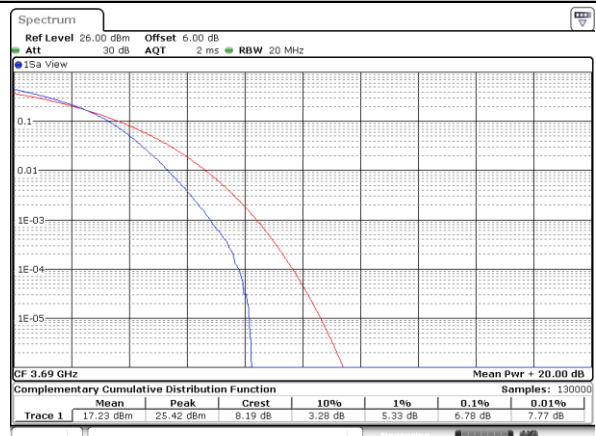
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Highest Channel / 1RB



Date: 4 APR 2020 04:19:06

Highest Channel / Full RB

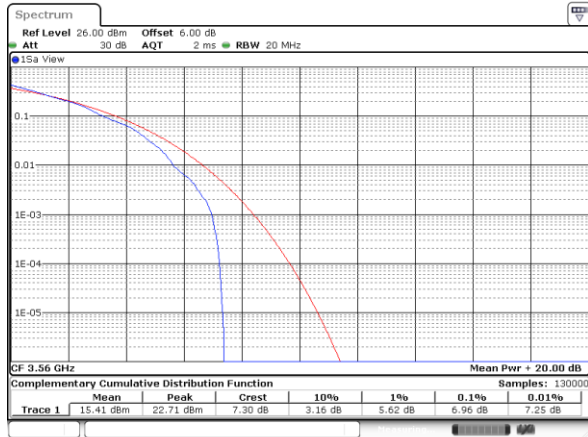


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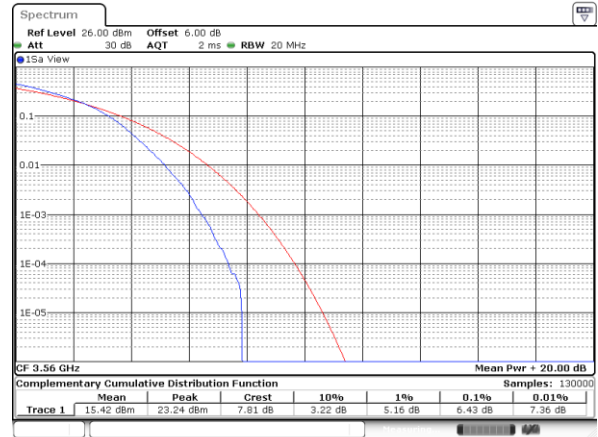


LTE Band 48 / 20MHz / 64QAM

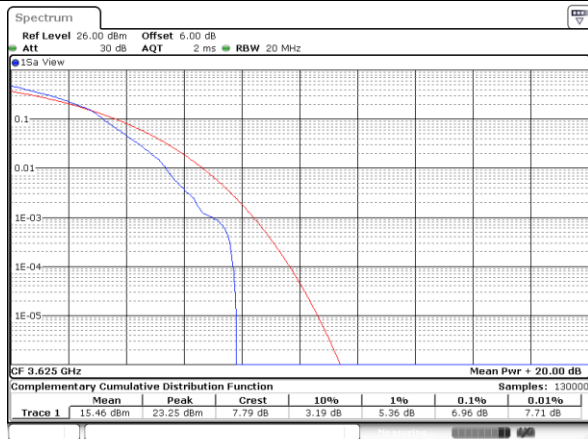
Lowest Channel / 1RB



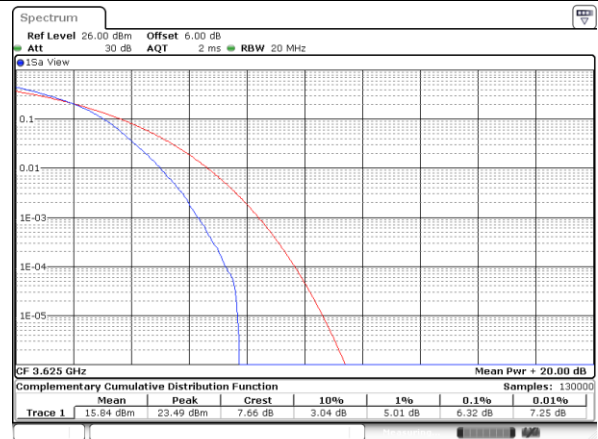
Lowest Channel / Full RB



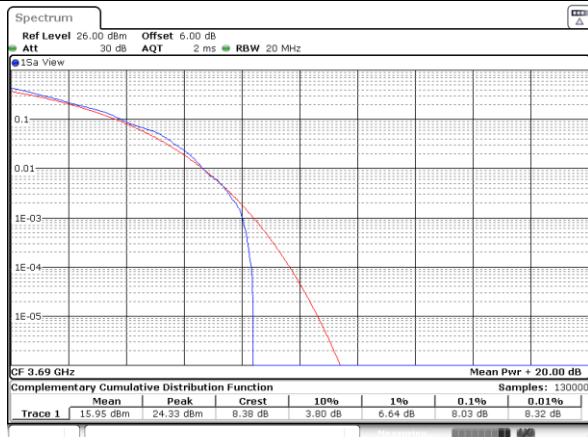
Middle Channel / 1RB



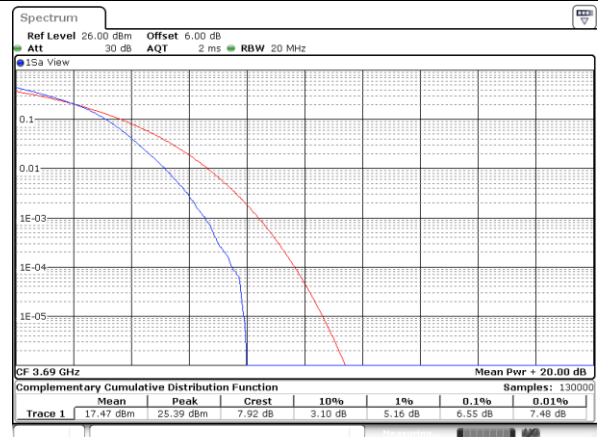
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB



**EIRP Power Density****1RB0**

Mode	LTE Band 48 : Conducted Power Density (dBm/MHz)											
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	13.99	13.60	14.65	13.31	14.28	13.19	14.36	14.06	13.50	13.55	13.50	13.73
Middle CH	14.02	13.60	14.53	13.11	14.61	13.79	15.21	14.13	13.58	13.64	13.86	14.07
Highest CH	16.11	15.43	15.96	15.03	15.66	14.63	16.61	15.22	15.03	15.21	14.67	15.78
Mode	LTE Band 48 : EIRP Power Density (dBm/MHz)											
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	31.97	31.58	32.63	31.29	32.26	31.17	32.34	32.04	31.48	31.53	31.48	31.71
Middle CH	32.00	31.58	32.51	31.09	32.59	31.77	33.19	32.11	31.56	31.62	31.84	31.05
Highest CH	34.09	33.41	33.94	33.01	33.64	32.61	34.59	33.20	33.01	33.19	32.65	33.76
Duty Factor	3.98 dB											
Antenna Gain	14.0 dBi											
Limit	37dBm / MHz											
Result	Pass											

**1RB Max**

Mode	LTE Band 48 : Conducted Power Density (dBm/MHz)											
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	14.34	13.36	14.39	13.34	14.31	13.52	14.94	14.38	13.42	13.48	13.56	14.03
Middle CH	14.48	13.23	13.89	13.22	14.50	13.56	14.90	13.97	13.42	13.26	13.97	13.87
Highest CH	16.08	15.21	15.83	14.71	16.10	15.55	15.97	15.50	15.51	15.13	14.78	15.74
Mode	LTE Band 48 : EIRP Power Density (dBm/MHz)											
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	32.32	31.34	32.37	31.32	32.29	31.50	32.92	32.36	31.40	31.46	31.54	32.01
Middle CH	32.46	31.21	31.87	31.20	32.48	31.54	32.88	31.95	31.40	31.24	31.95	31.85
Highest CH	34.06	33.19	33.81	32.69	34.08	33.53	33.95	33.48	33.49	33.11	32.76	33.72
Duty Factor	3.98 dB											
Antenna Gain	14.0 dBi											
Limit	37dBm / MHz											
Result	Pass											

**Full RB0**

Mode	LTE Band 48 : Conducted Power Density (dBm/MHz)											
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM	64QAM	64QAM
Lowest CH	7.52	6.21	4.40	3.17	2.32	1.49	2.00	1.23	6.48	3.32	1.41	1.17
Middle CH	7.18	6.55	4.44	3.25	2.79	2.03	2.45	1.25	6.48	3.47	1.56	1.28
Highest CH	9.39	8.30	6.45	5.24	4.63	3.47	4.12	2.91	8.10	4.61	3.95	2.66
Mode	LTE Band 48 : EIRP Power Density (dBm/MHz)											
BW	5MHz		10MHz		15MHz		20MHz		5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	25.50	24.19	22.38	21.15	20.30	19.47	19.98	19.21	24.46	21.30	19.39	19.15
Middle CH	25.16	24.53	22.42	21.33	20.77	20.01	20.43	19.23	24.46	21.45	19.54	19.26
Highest CH	27.37	26.28	24.43	23.22	22.61	21.45	22.10	20.89	26.08	22.59	21.93	20.64
Duty Factor	3.98 dB											
Antenna Gain	14.0 dBi											
Limit	37dBm / MHz											
Result	Pass											

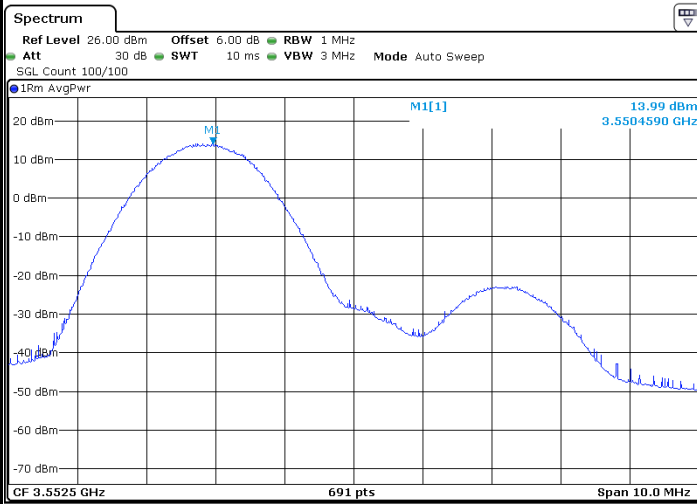
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor(dB)
	QPSK	40	3.98
	16QAM	40	3.98
	64QAM	40	3.98



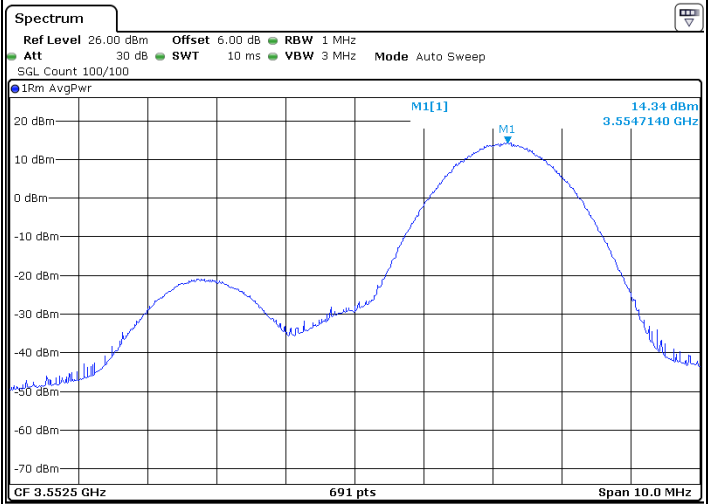
LTE Band 48 / 5MHz

QPSK

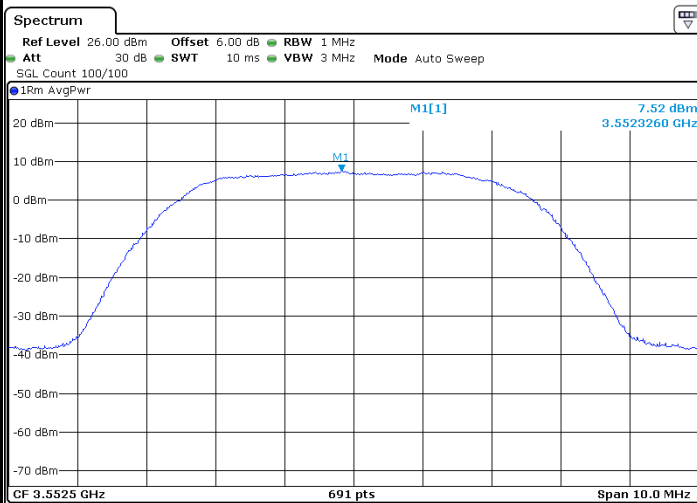
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / Full RB



N/A

/

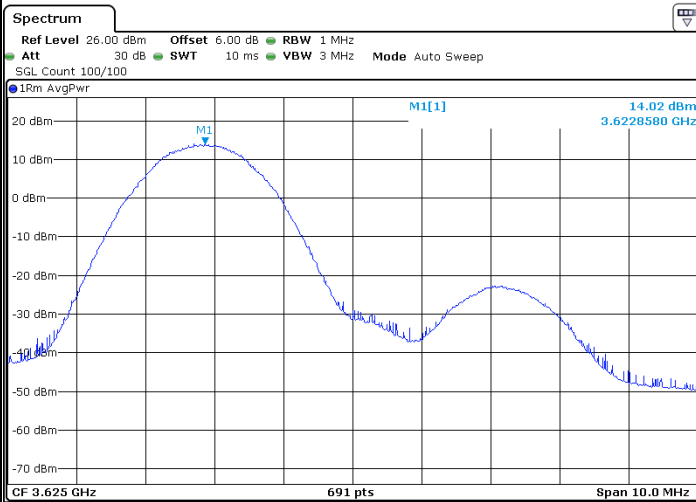


LTE Band 48 / 5MHz

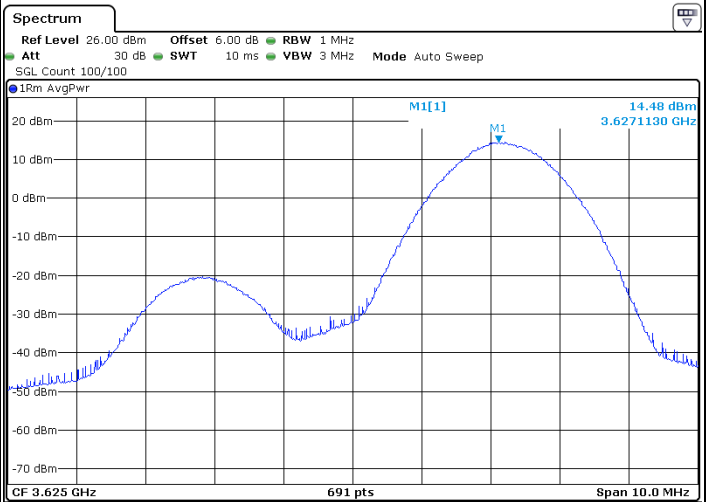
QPSK

Middle Channel / 1RB0

Middle Channel / 1RBmax



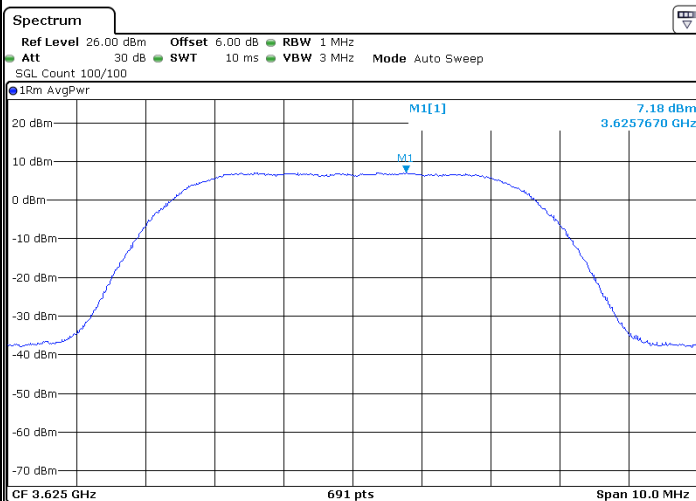
Date: 8 APR 2020 19:31:21



Date: 8 APR 2020 19:33:27

Middle Channel / Full RB

N/A



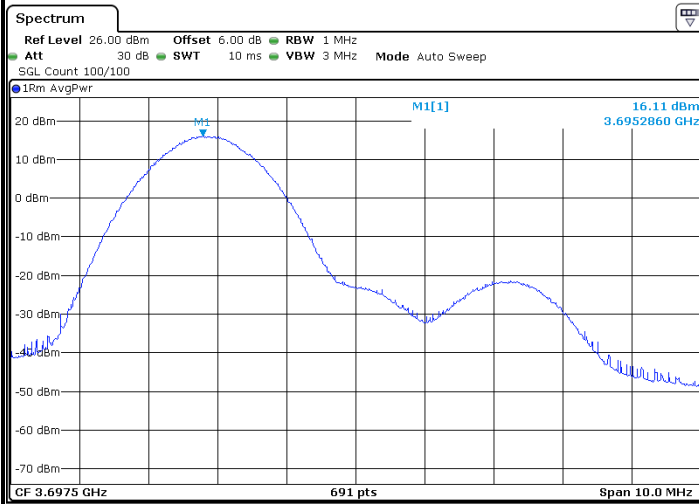
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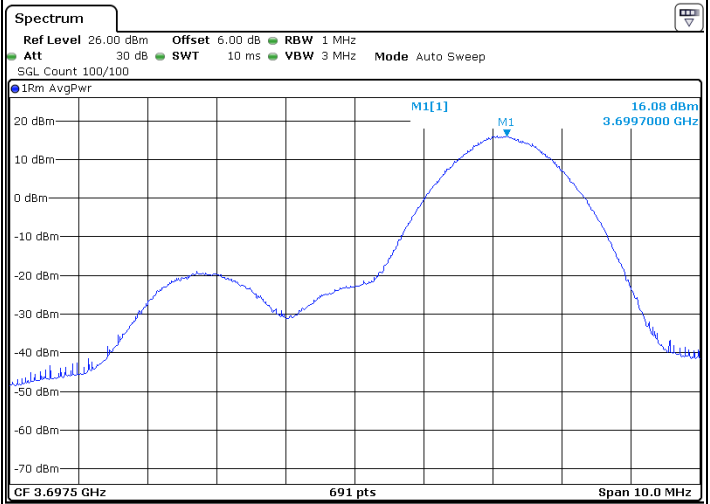
LTE Band 48 / 5MHz

QPSK

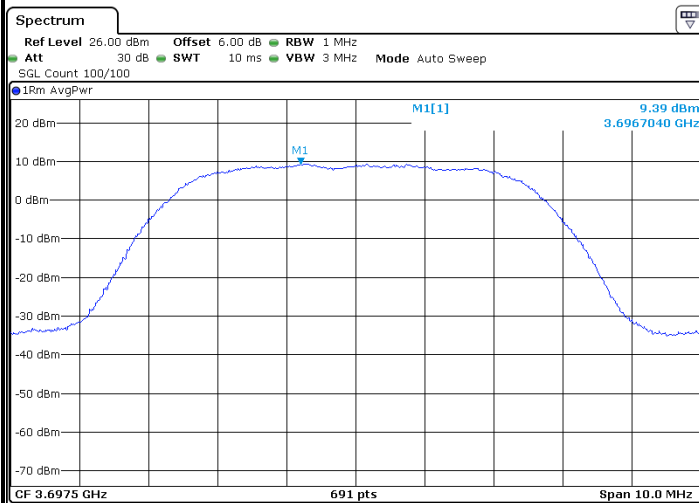
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / Full RB



N/A

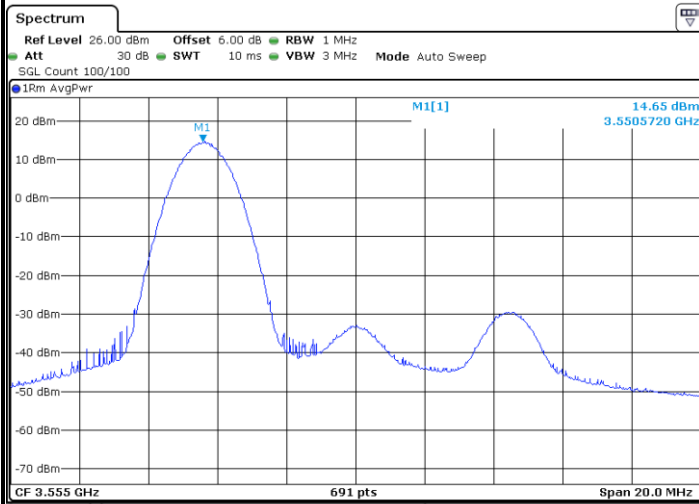
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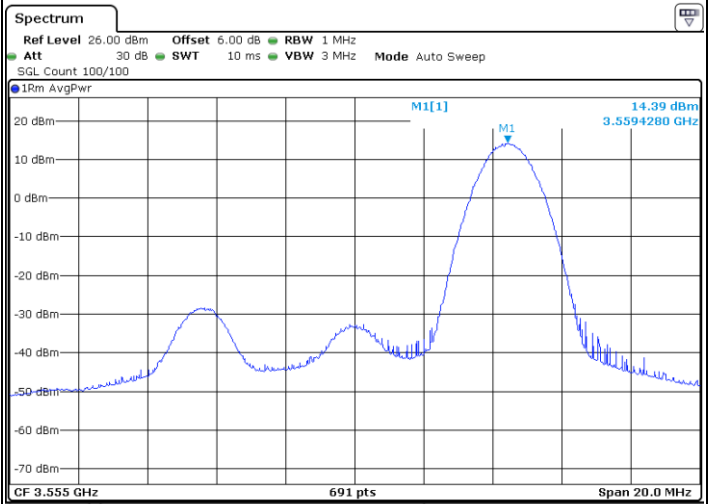
LTE Band 48 / 10MHz

QPSK

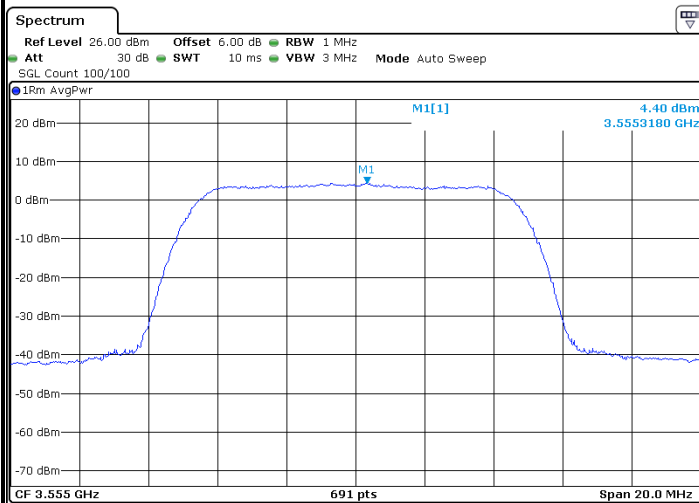
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / Full RB



N/A

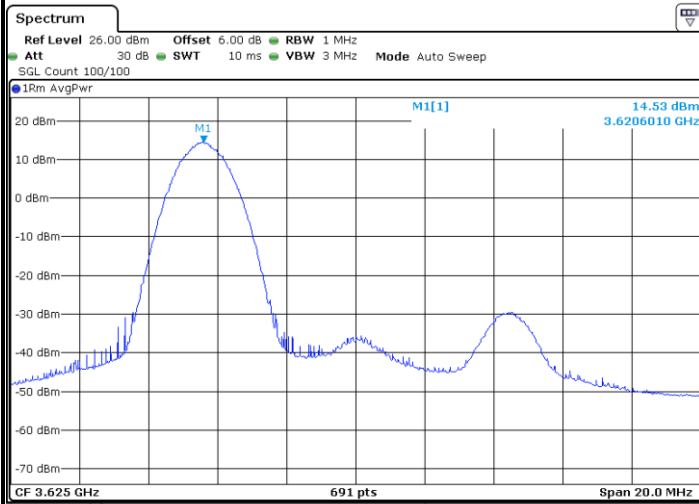
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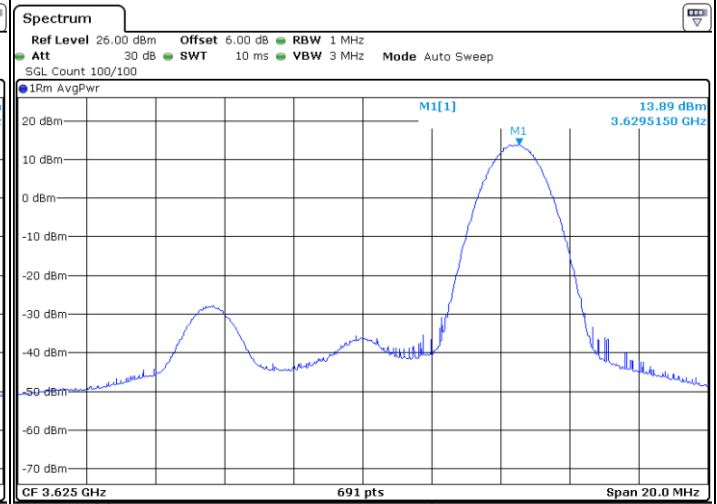
LTE Band 48 / 10MHz

QPSK

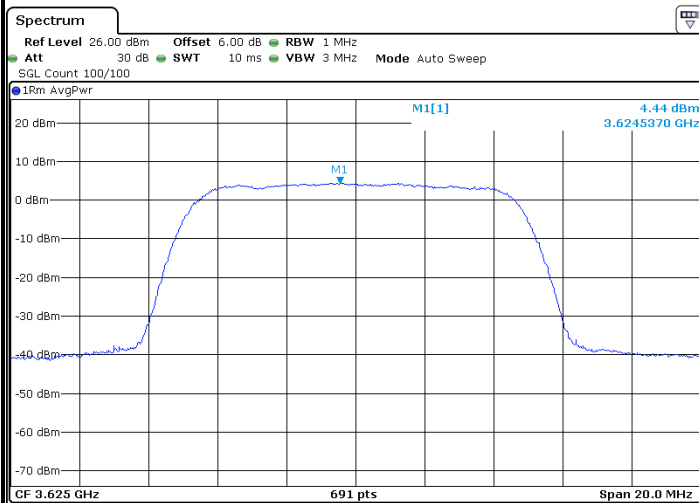
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / Full RB



N/A

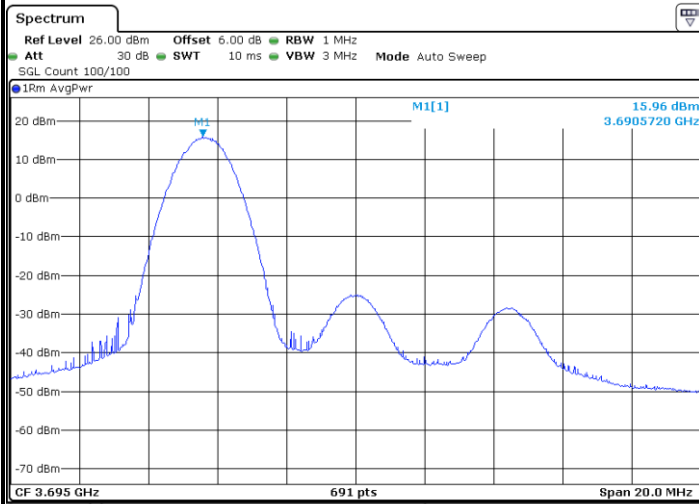
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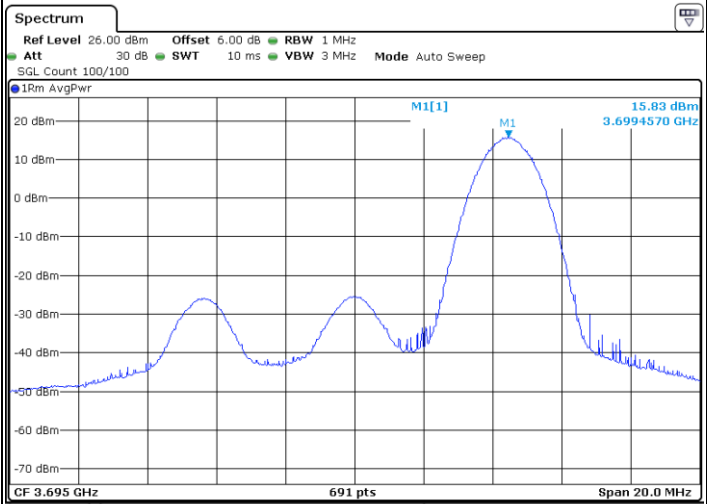
LTE Band 48 / 10MHz

QPSK

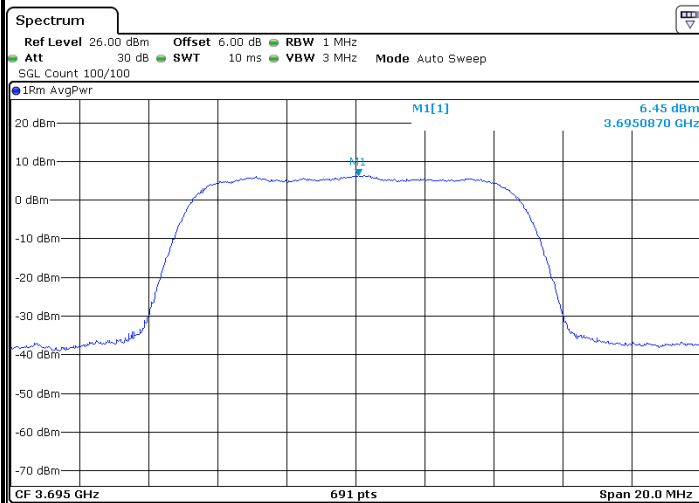
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / Full RB



N/A

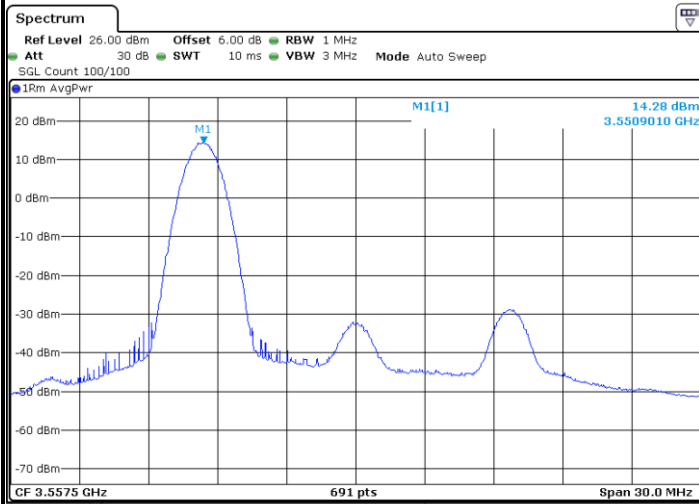
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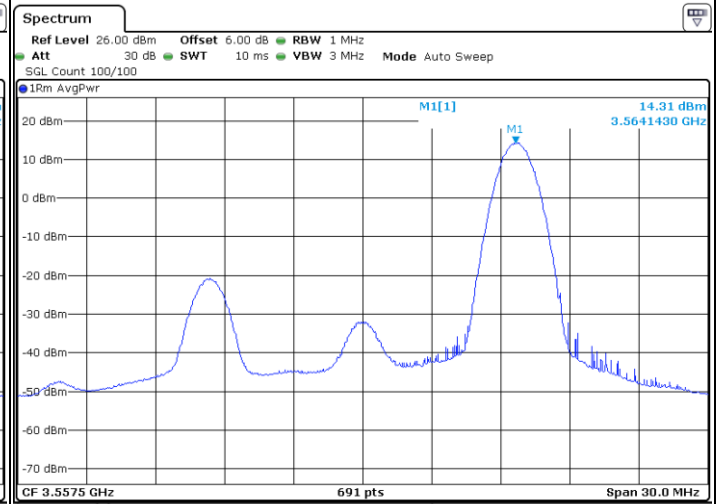
LTE Band 48 / 15MHz

QPSK

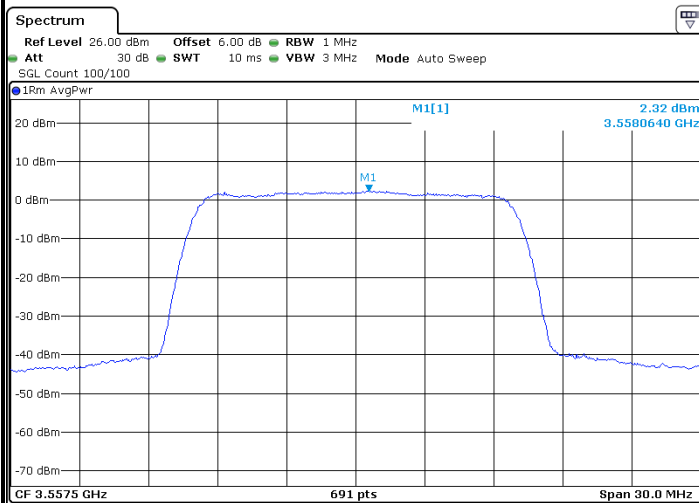
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / Full RB



N/A

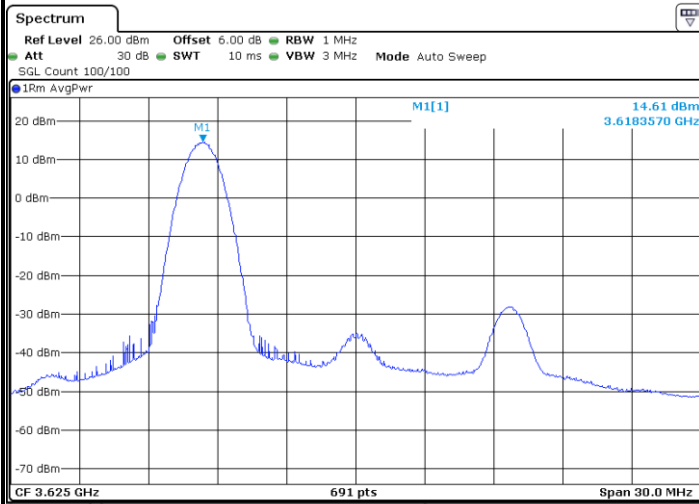
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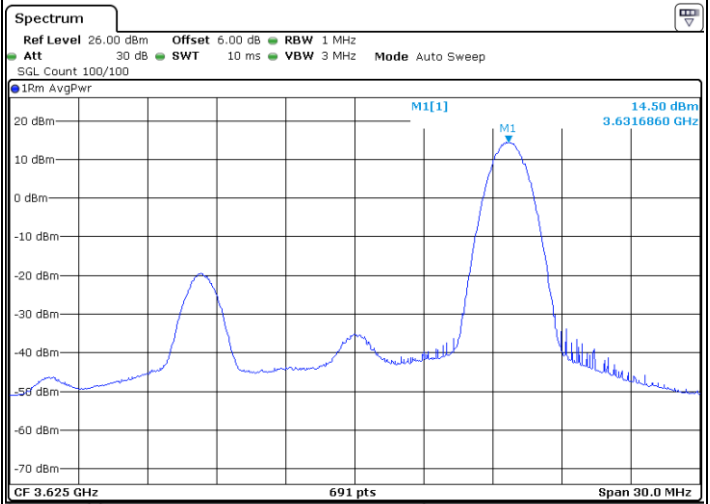
LTE Band 48 / 15MHz

QPSK

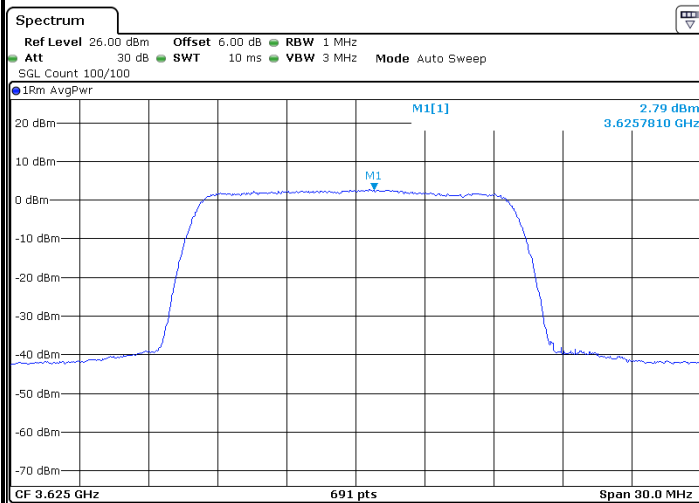
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / Full RB



N/A

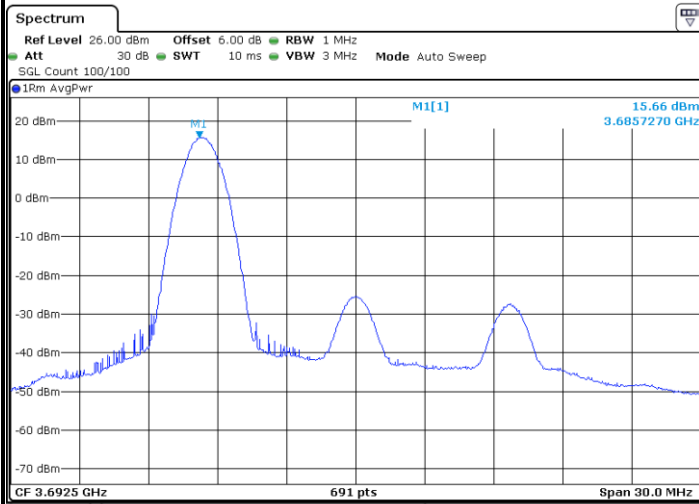
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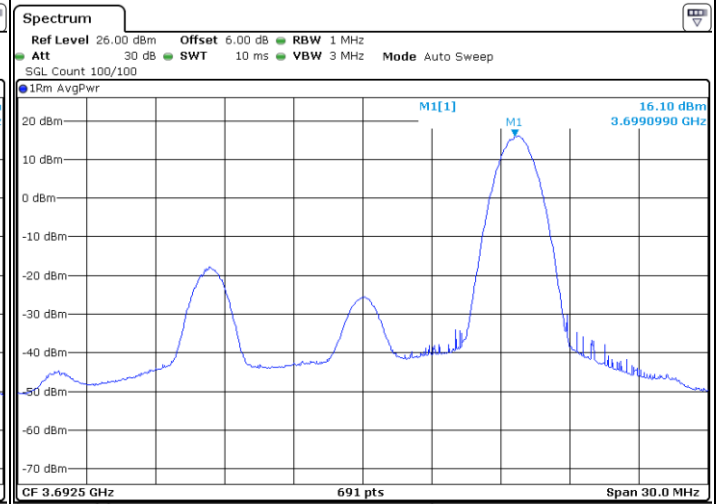
LTE Band 48 / 15MHz

QPSK

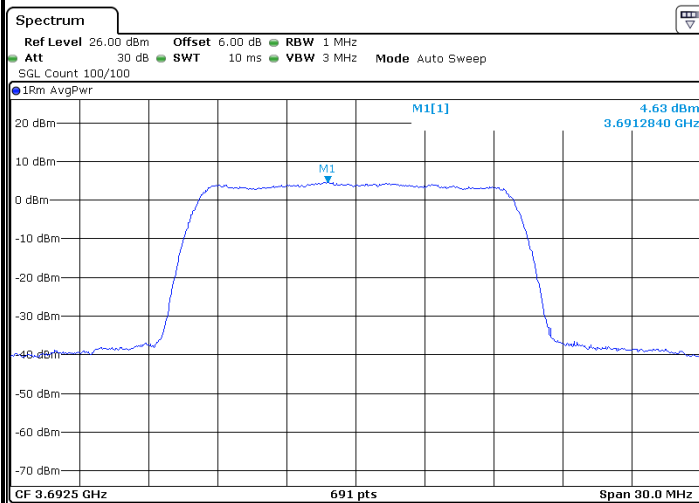
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / Full RB



N/A

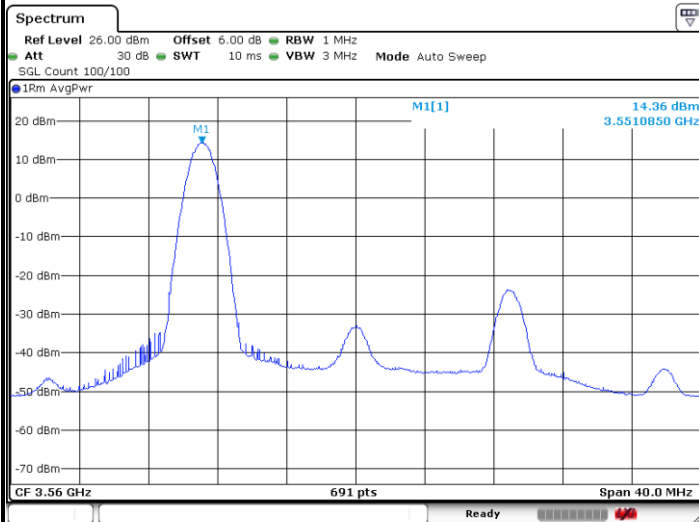
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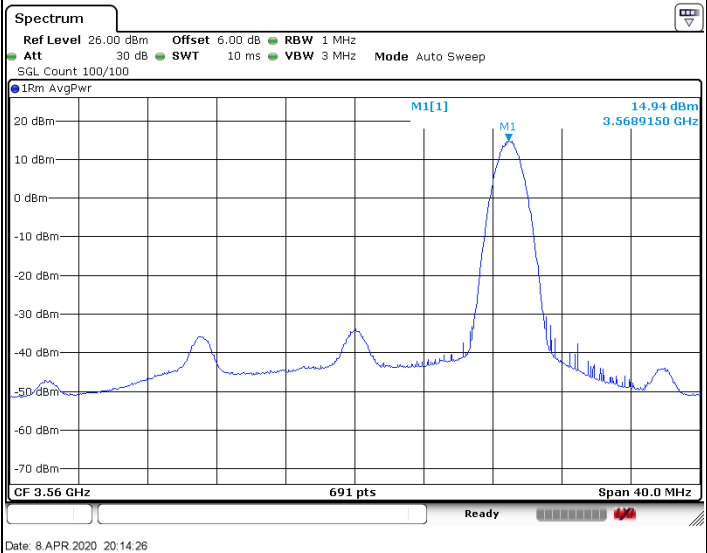
LTE Band 48 / 20MHz

QPSK

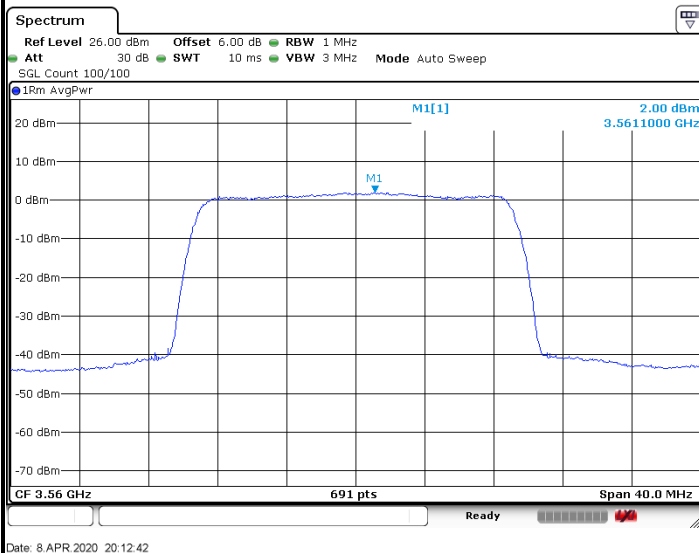
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / Full RB



N/A

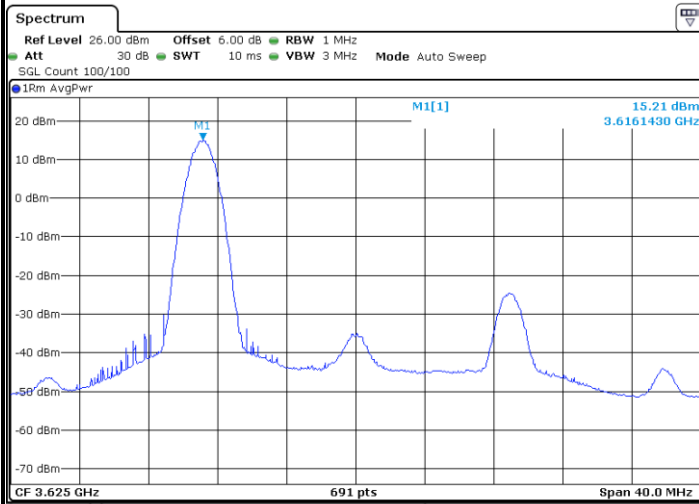
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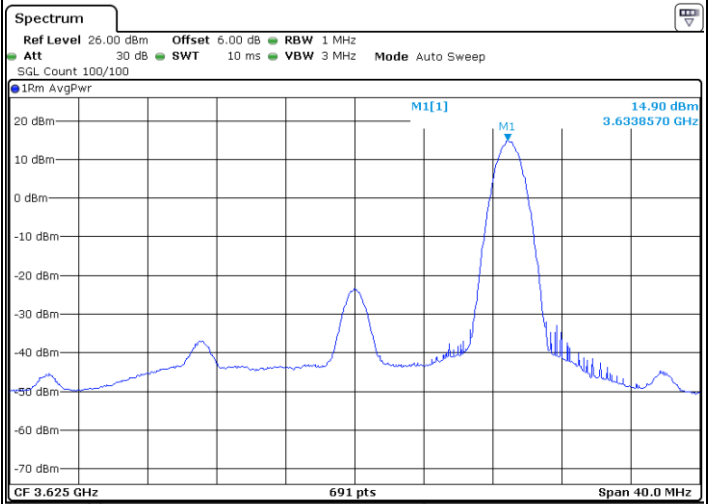
LTE Band 48 / 20MHz

QPSK

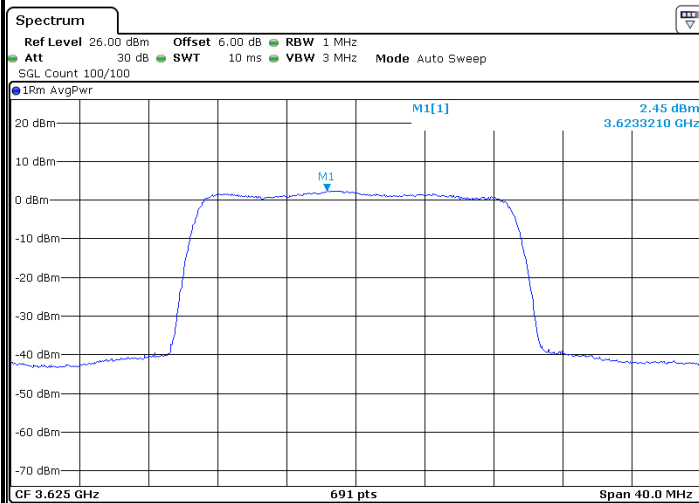
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / Full RB



N/A

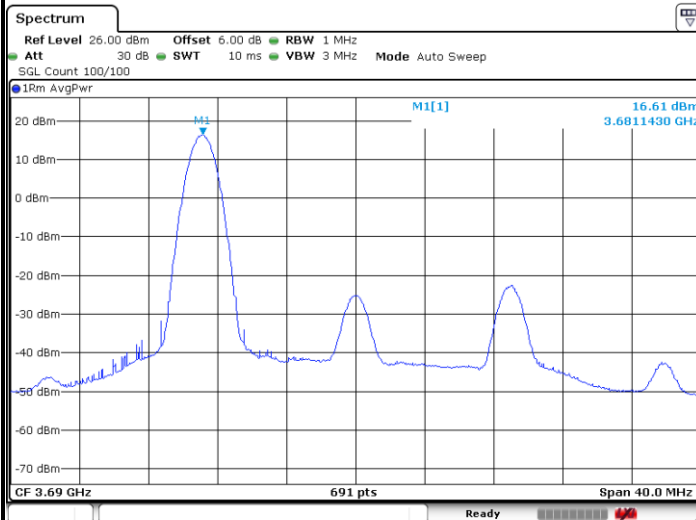
/



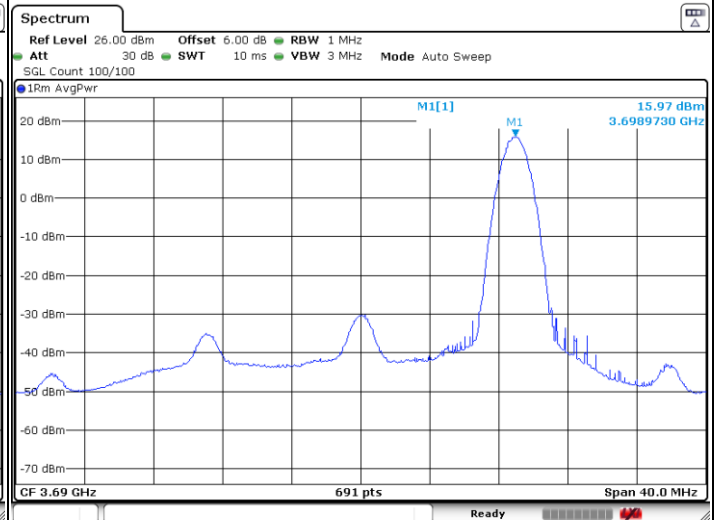
LTE Band 48 / 20MHz

QPSK

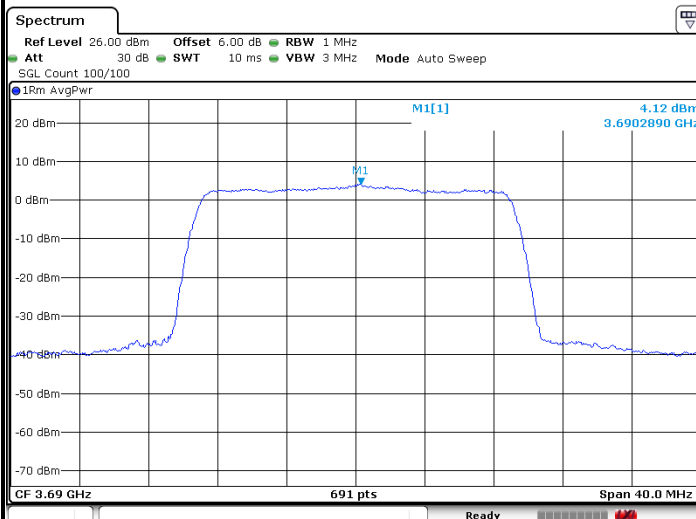
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / Full RB



N/A

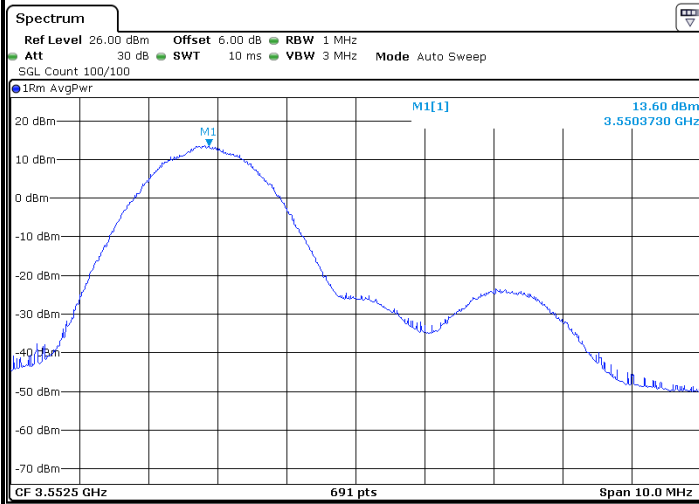
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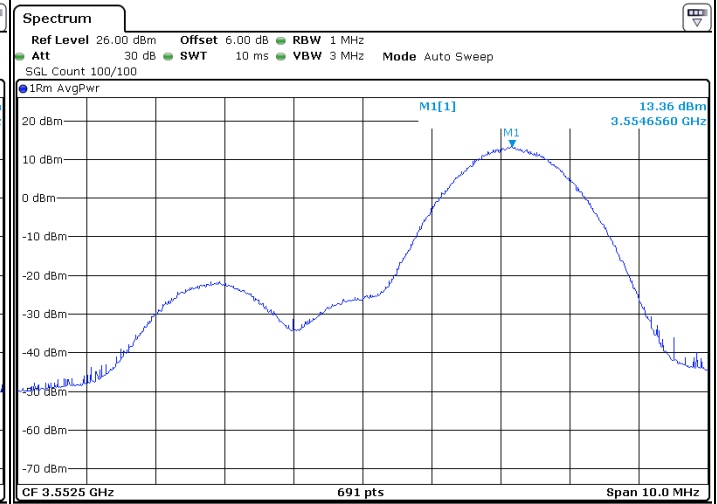
LTE Band 48 / 5MHz

16QAM

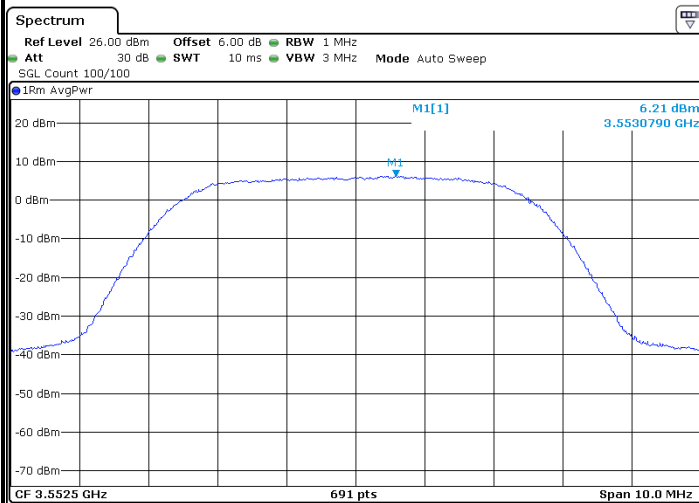
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / Full RB



N/A

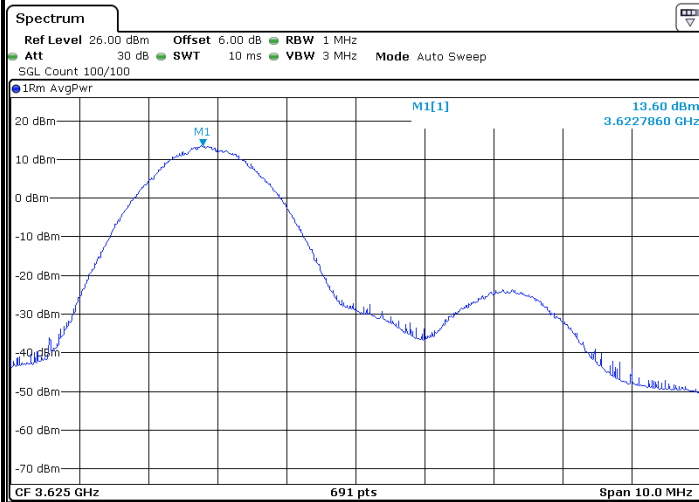
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LTE Band 48 / 5MHz

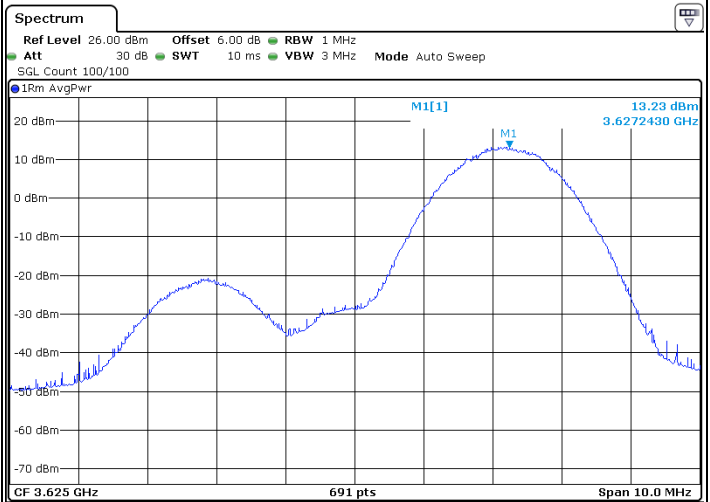
16QAM

Middle Channel / 1RB0



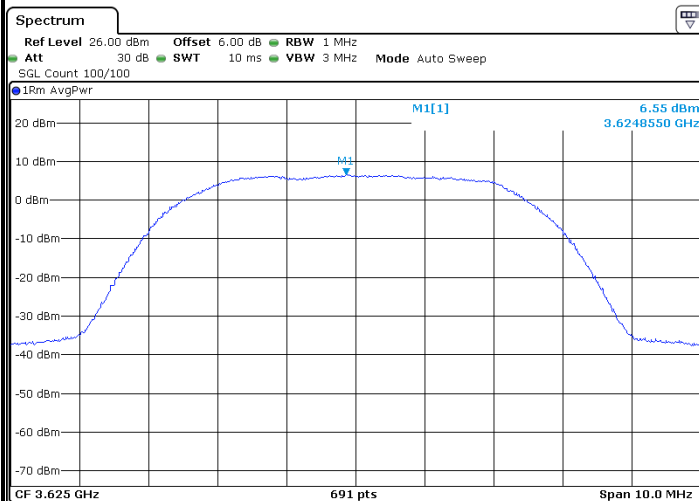
Date: 8 APR 2020 19:31:51

Middle Channel / 1RBmax



Date: 8 APR 2020 19:33:04

Middle Channel / Full RB



Date: 8 APR 2020 19:30:43

N/A

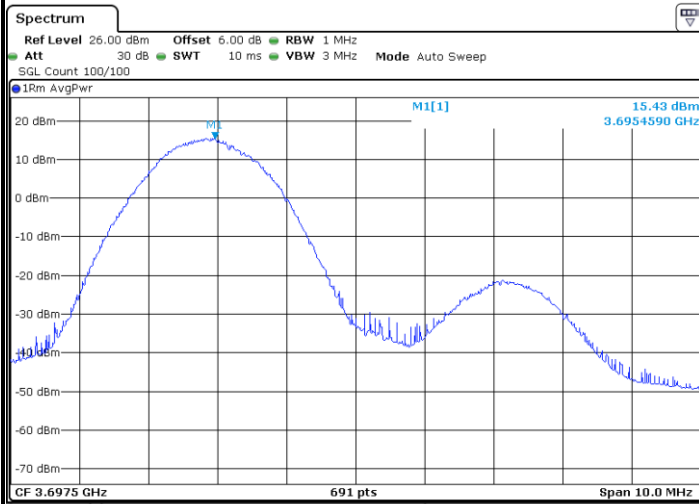
/



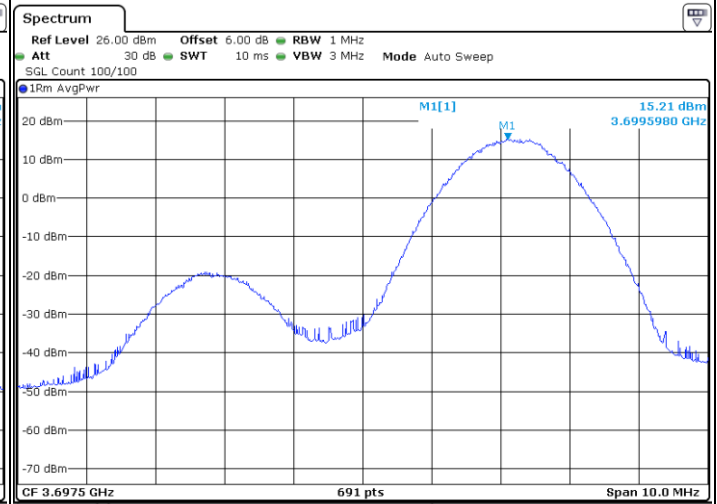
LTE Band 48 / 5MHz

16QAM

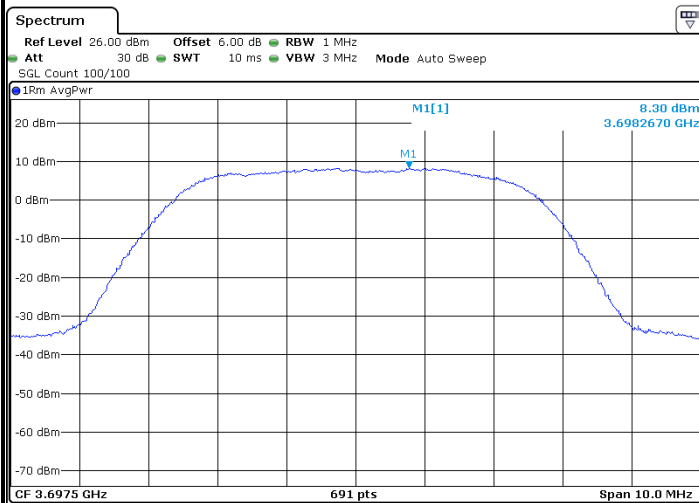
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / Full RB



N/A

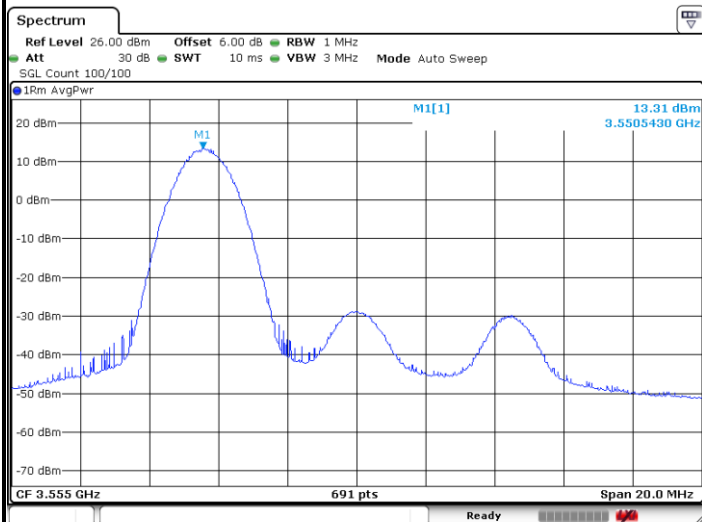
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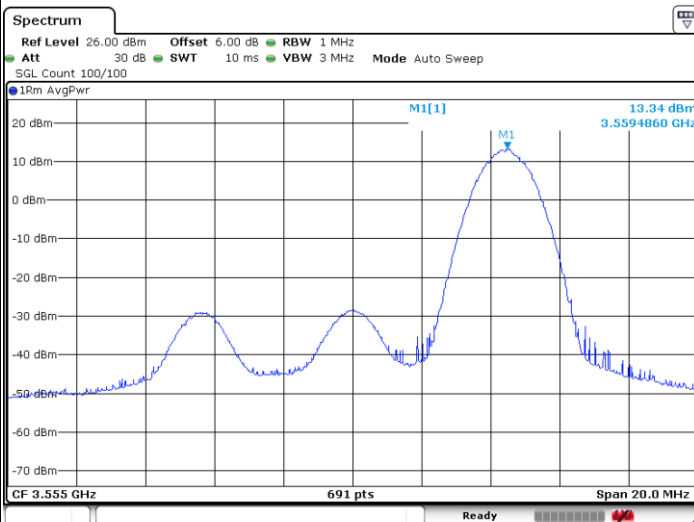
LTE Band 48 / 10MHz

16QAM

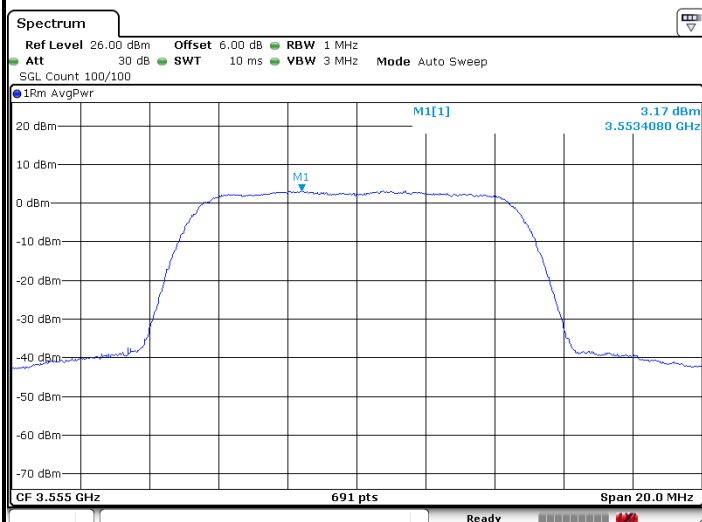
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / Full RB



N/A

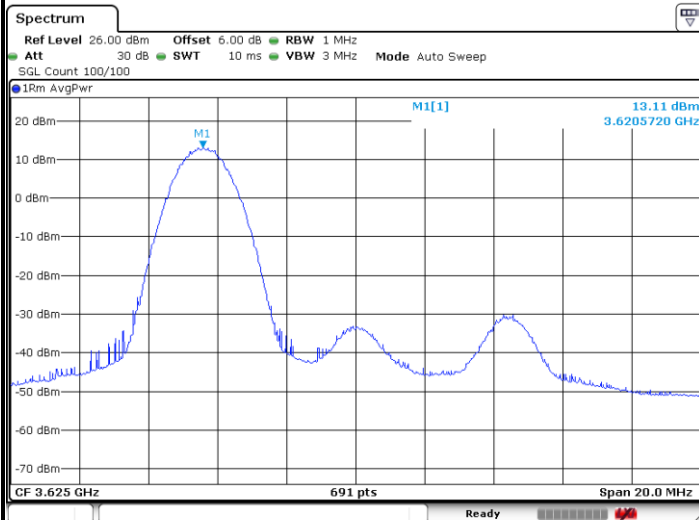
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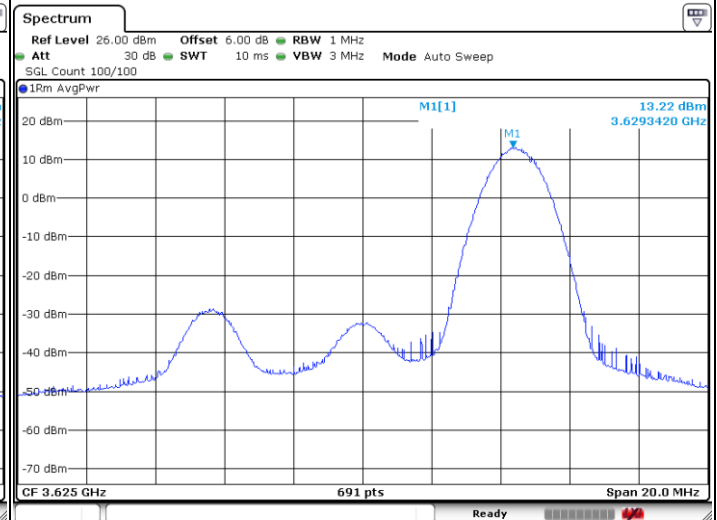
LTE Band 48 / 10MHz

16QAM

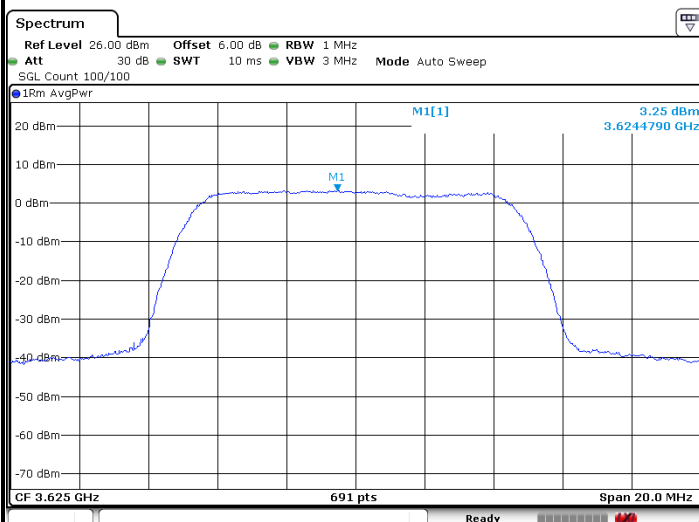
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / Full RB



N/A

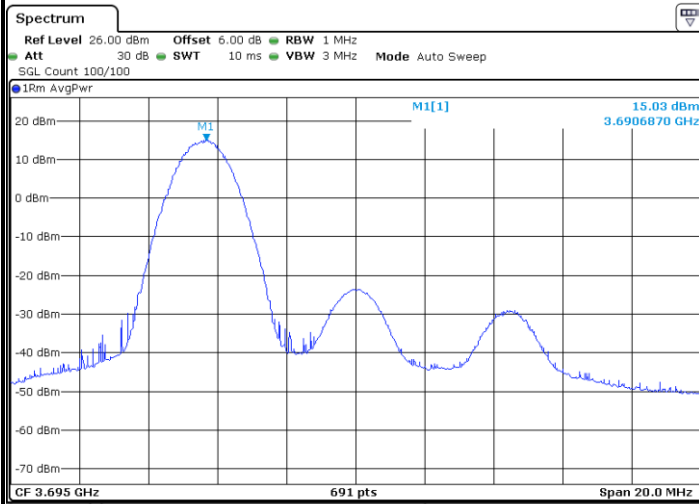
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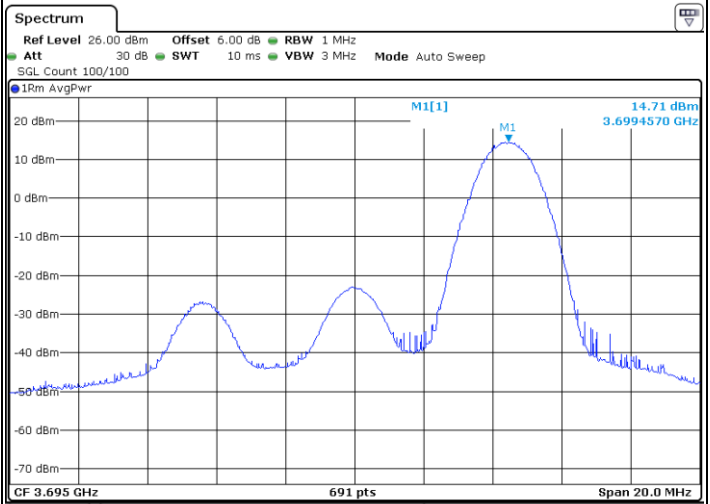
LTE Band 48 / 10MHz

16QAM

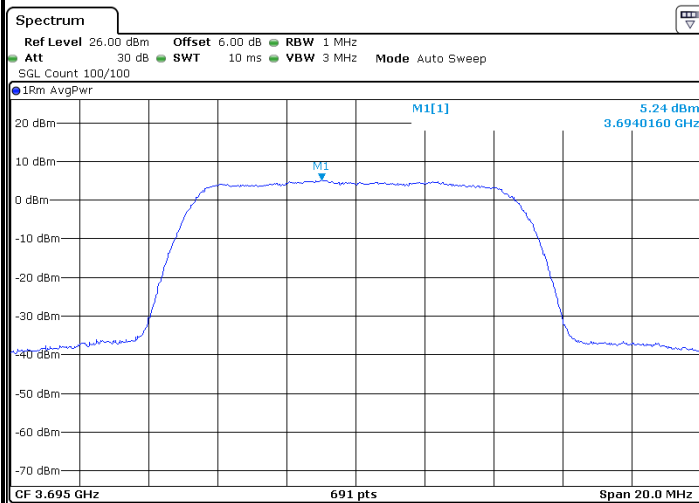
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / Full RB



N/A

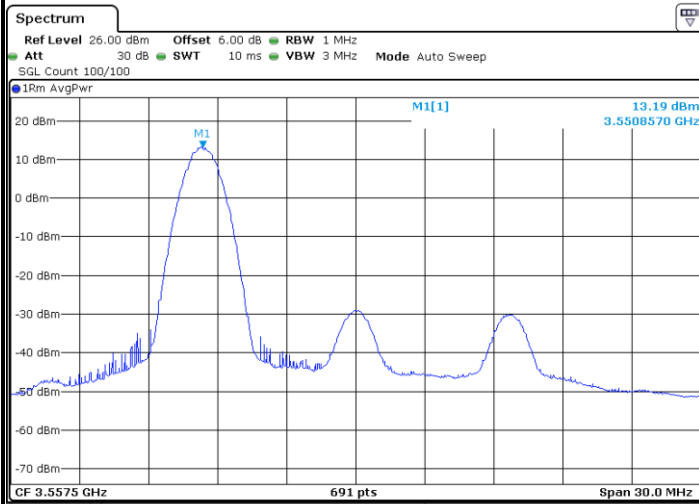
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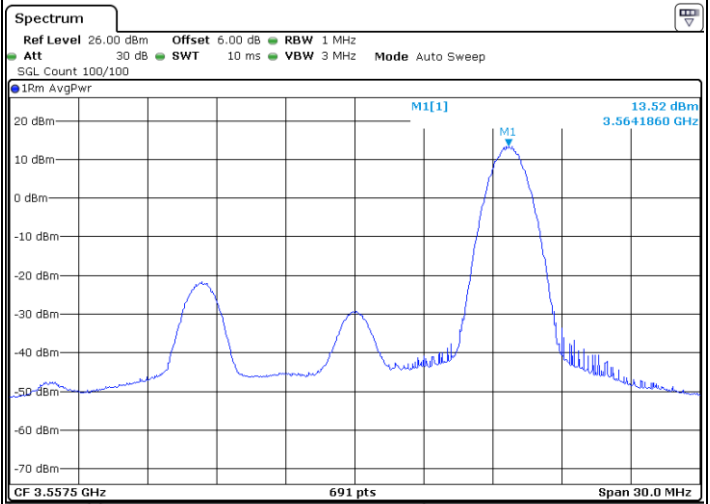
LTE Band 48 / 15MHz

16QAM

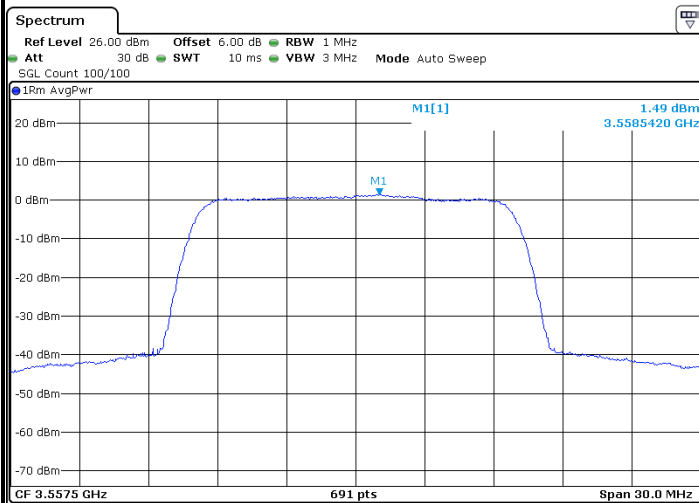
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / Full RB



N/A

/

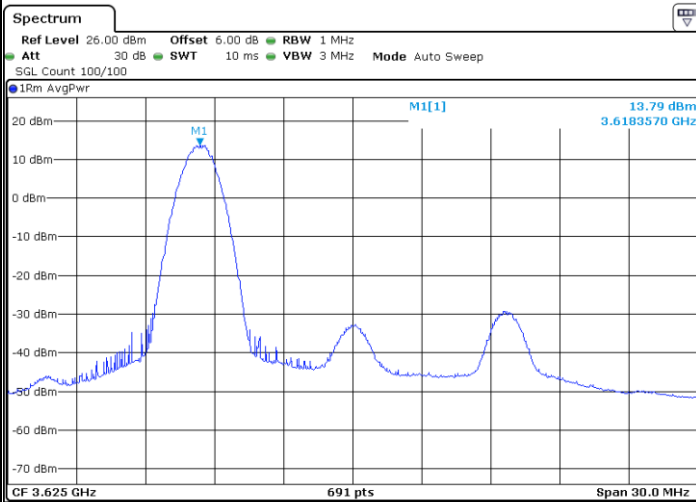


LTE Band 48 / 15MHz

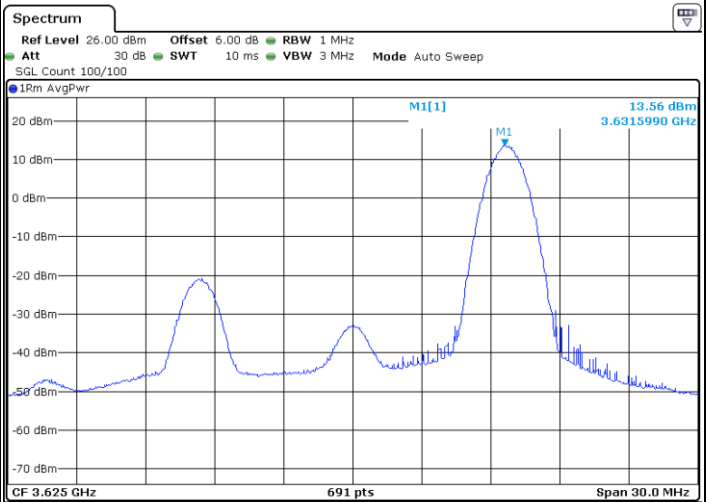
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



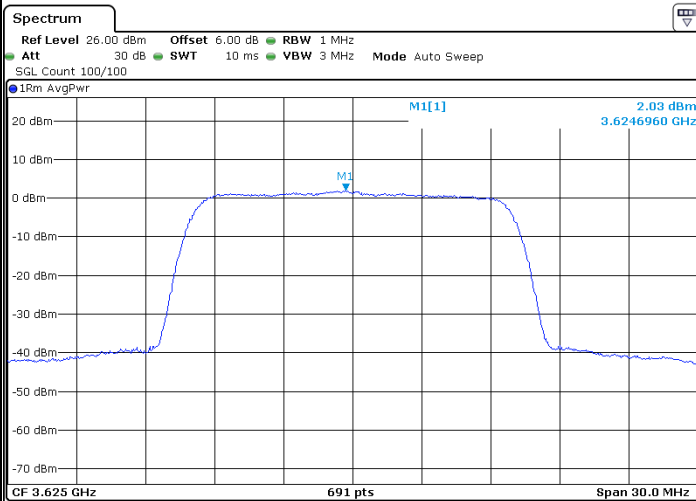
Date: 8 APR 2020 20:04:03



Date: 8 APR 2020 20:05:16

Middle Channel / Full RB

N/A



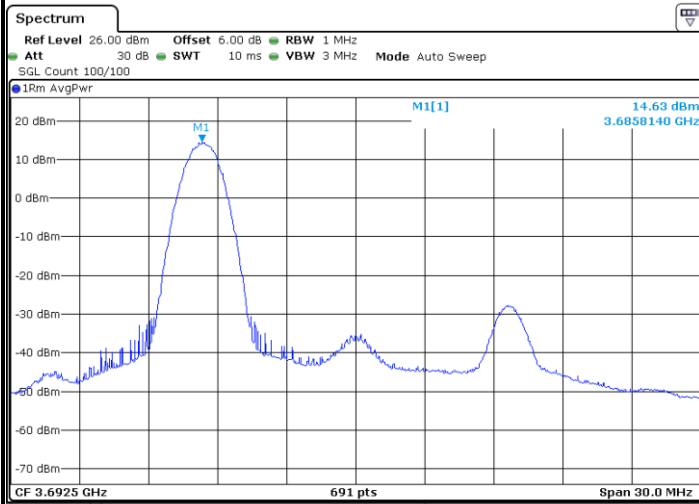
Date: 8 APR 2020 20:02:09



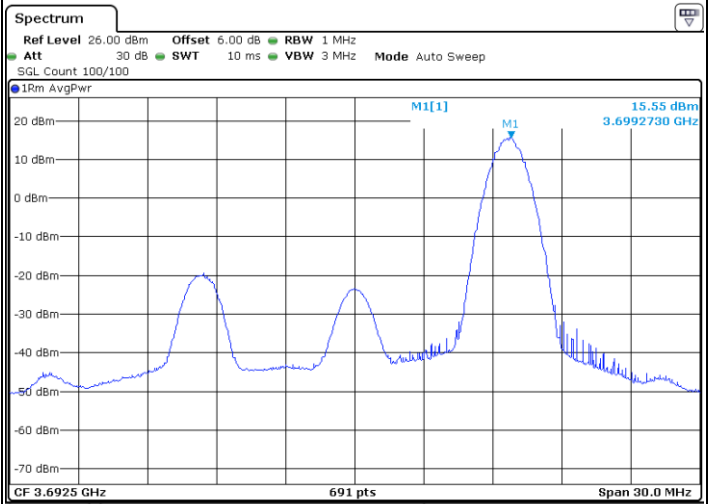
LTE Band 48 / 15MHz

16QAM

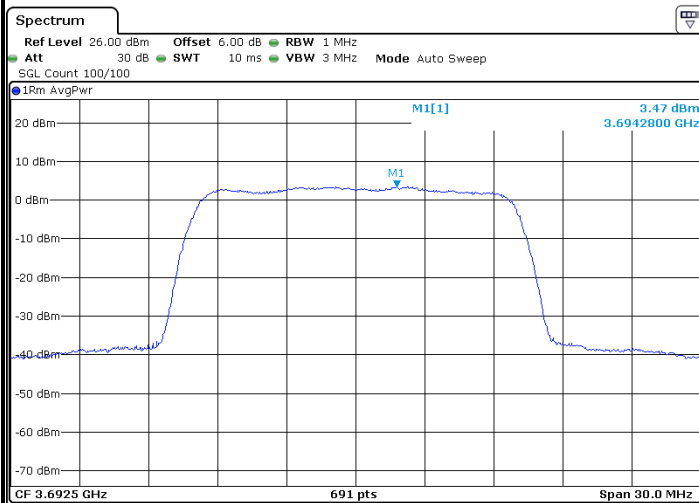
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / Full RB



N/A

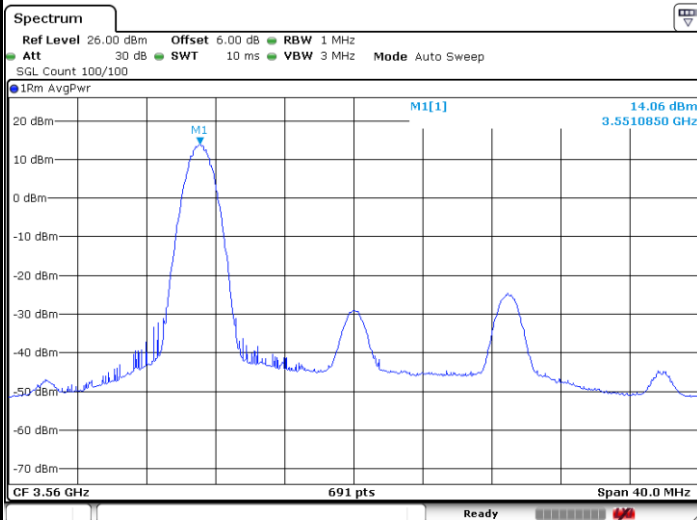
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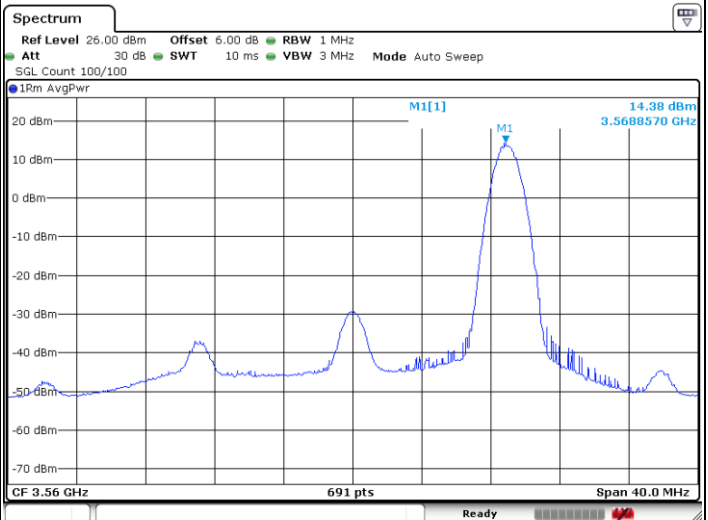
LTE Band 48 / 20MHz

16QAM

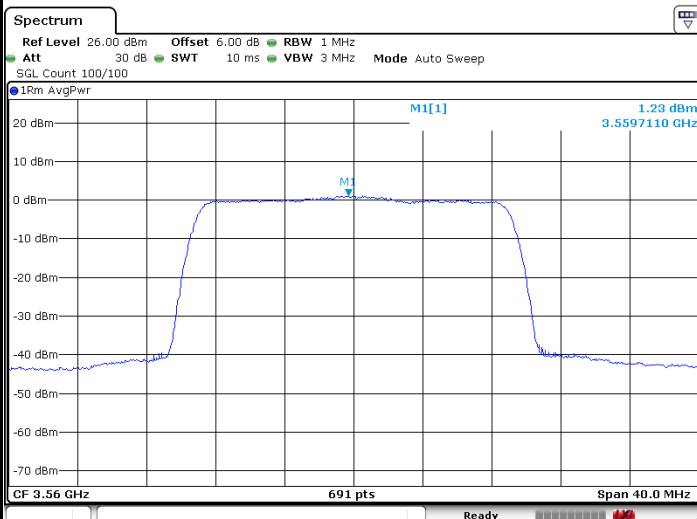
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / Full RB



N/A

/

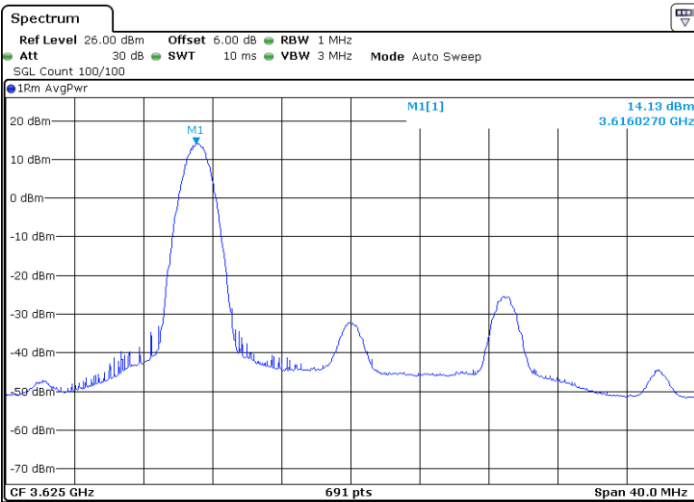


LTE Band 48 / 20MHz

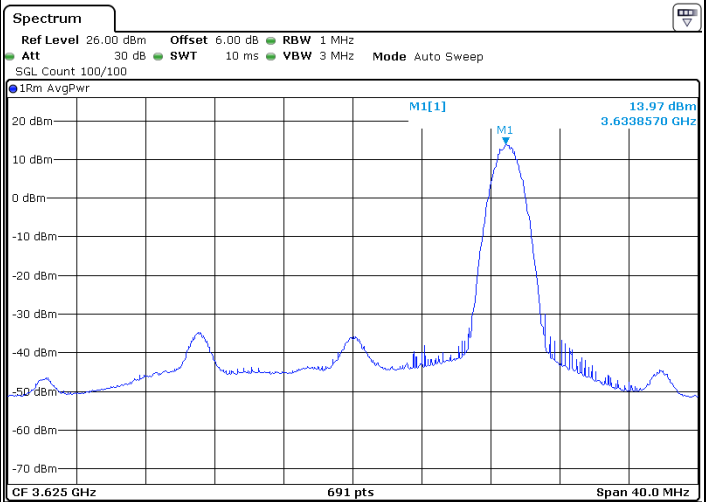
16QAM

Middle Channel / 1RB0

Middle Channel / 1RBmax



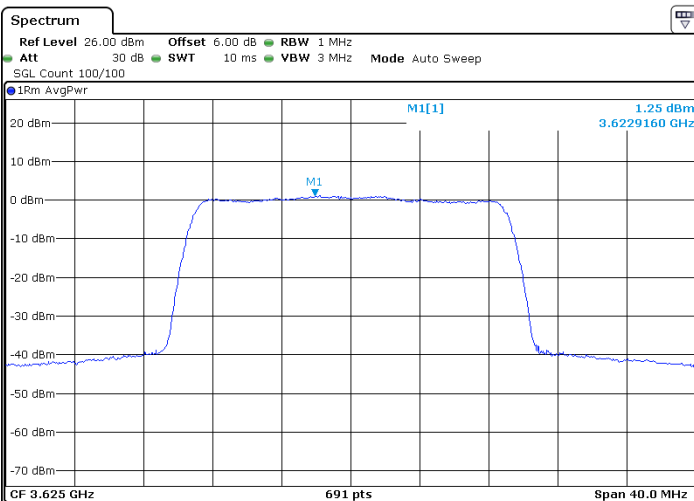
Date: 8 APR 2020 20:16:22



Date: 8 APR 2020 20:15:27

Middle Channel / Full RB

N/A



Date: 8 APR 2020 20:17:29

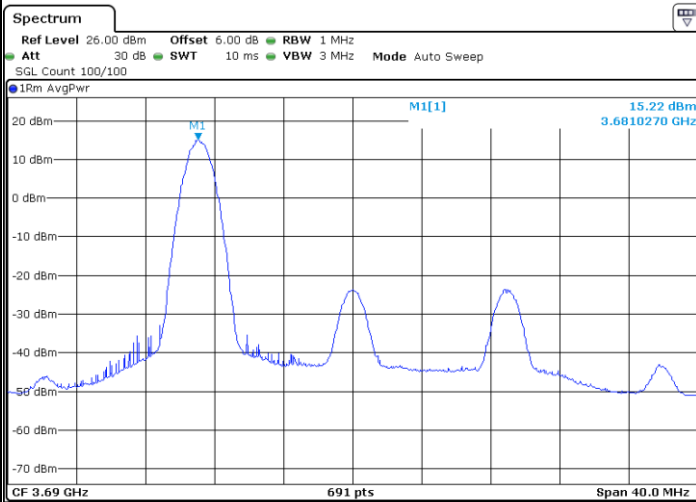


LTE Band 48 / 20MHz

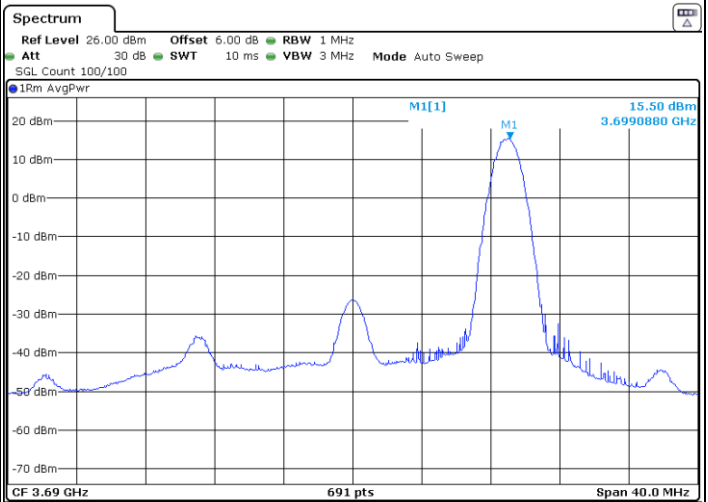
16QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



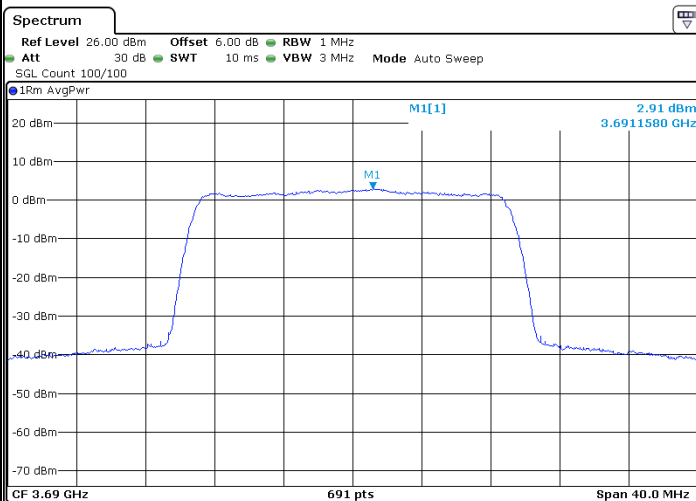
Date: 8 APR 2020 20:19:55



Date: 8 APR 2020 20:20:54

Highest Channel / Full RB

N/A



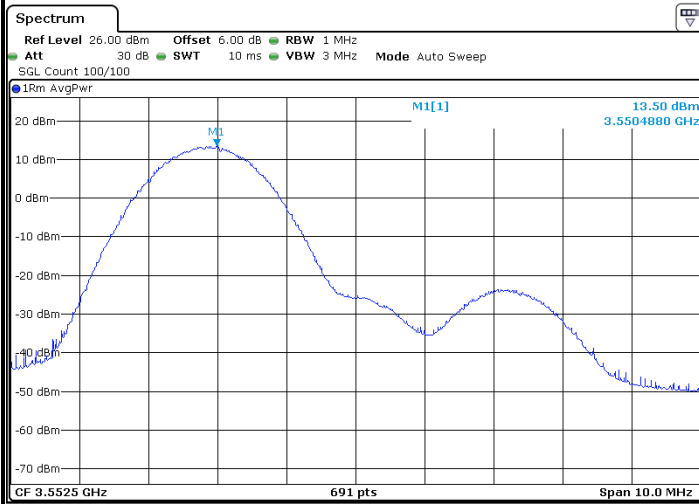
Date: 8 APR 2020 20:18:55



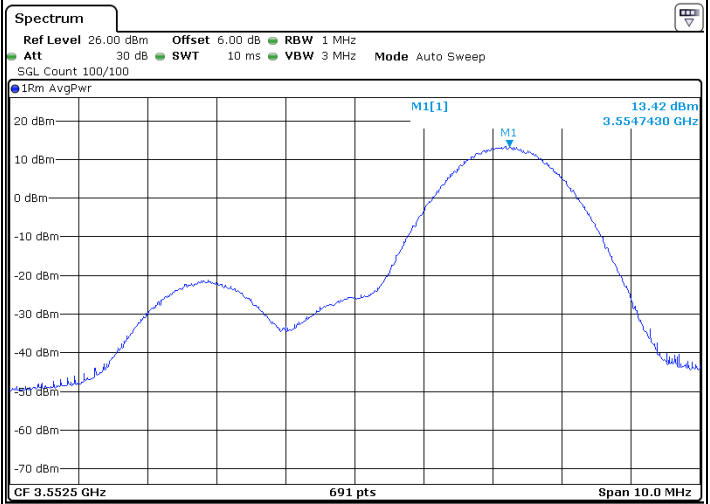
LTE Band 48 / 5MHz

64QAM

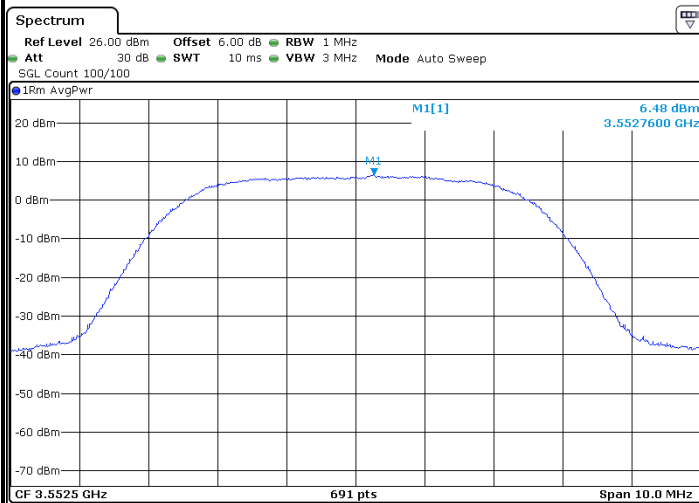
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / Full RB



N/A

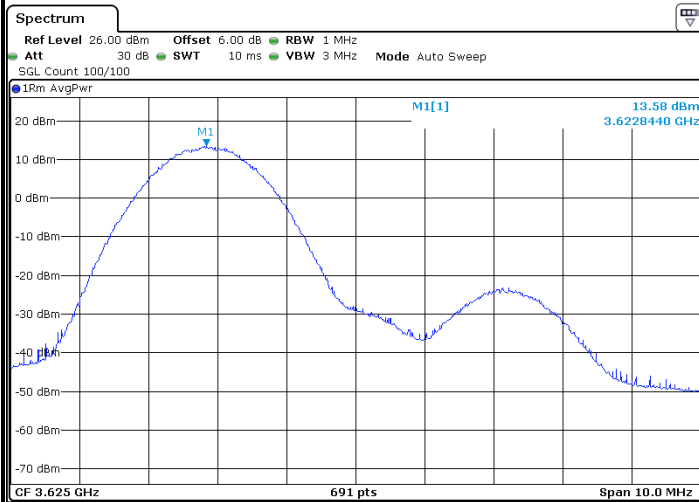
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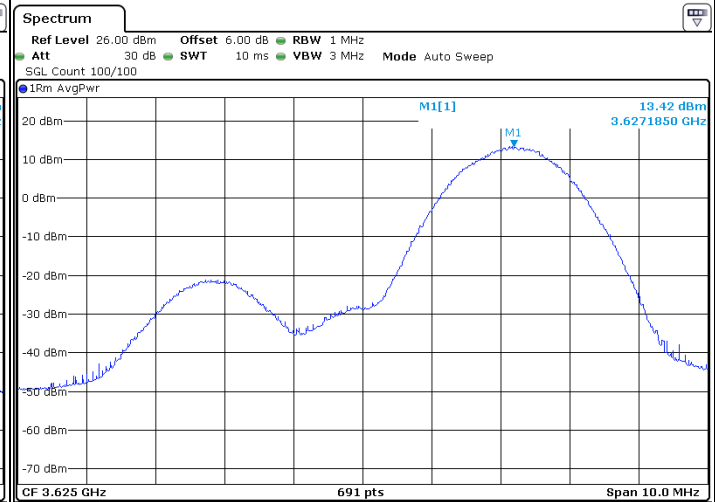
LTE Band 48 / 5MHz

64QAM

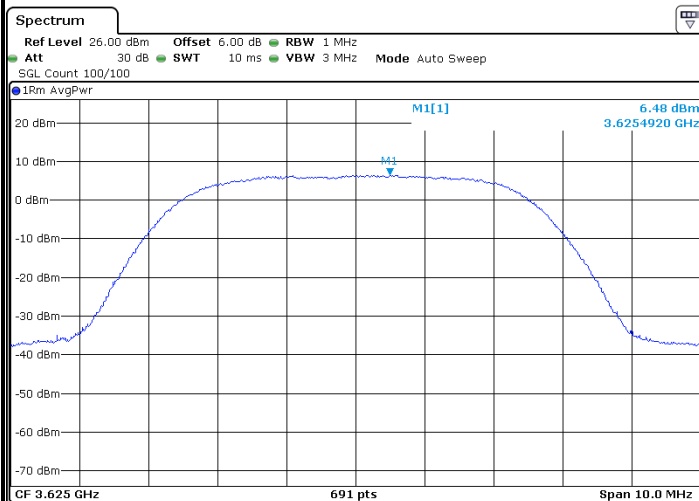
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / Full RB



N/A

/

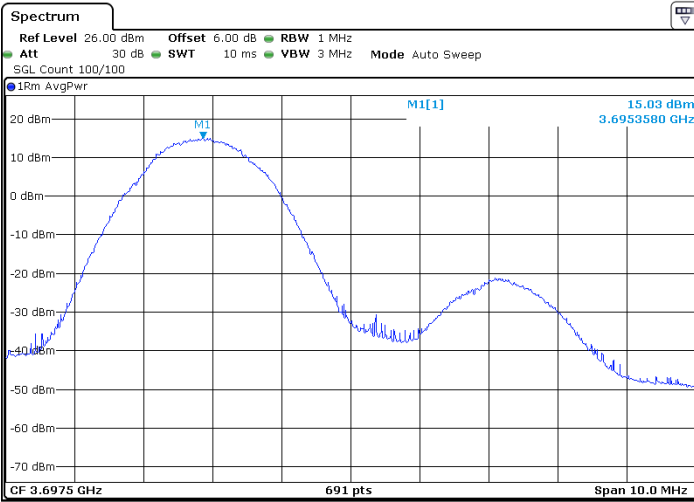


LTE Band 48 / 5MHz

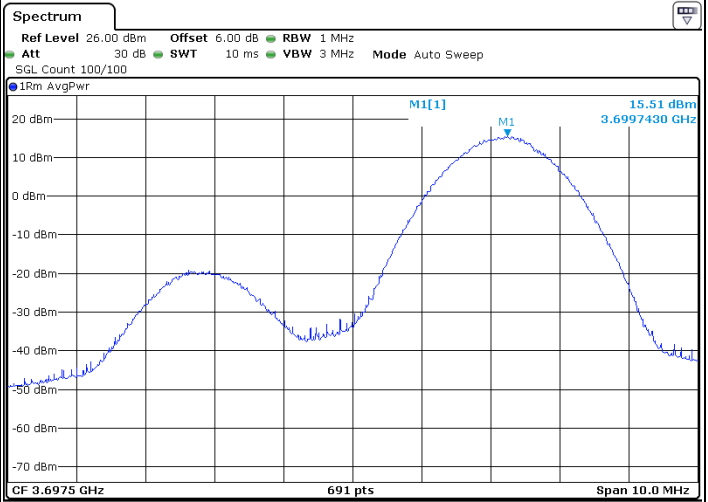
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



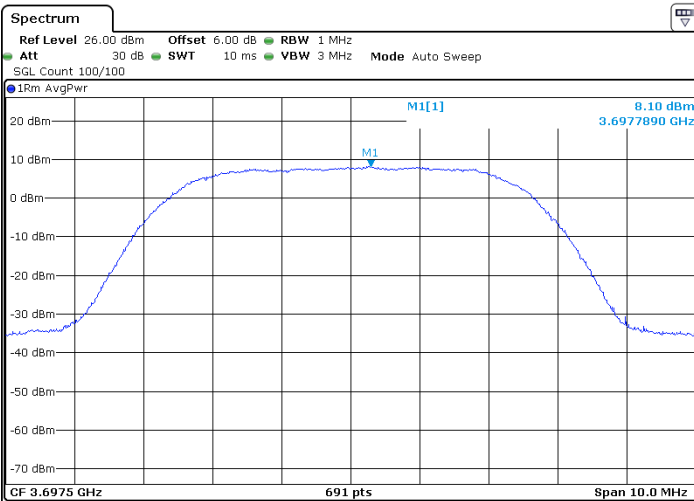
Date: 8 APR 2020 19:35:28



Date: 8 APR 2020 19:35:05

Highest Channel / Full RB

N/A



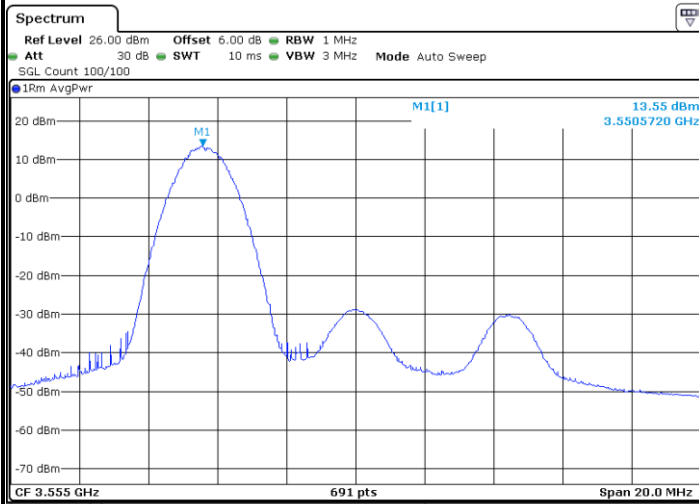
Date: 8 APR 2020 19:37:18



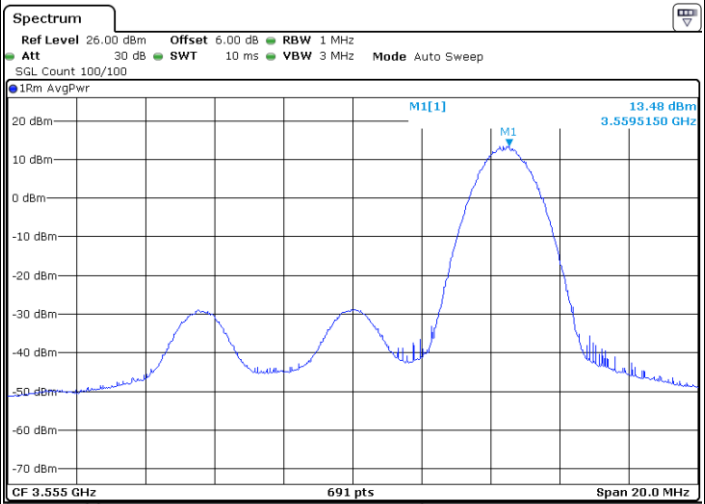
LTE Band 48 / 10MHz

64QAM

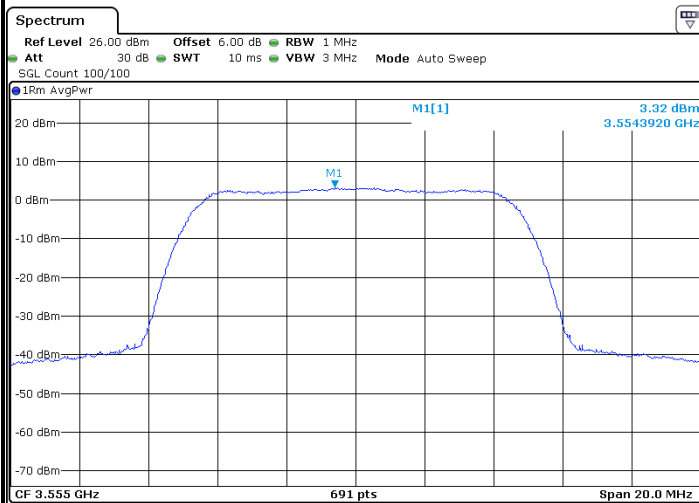
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / Full RB



N/A

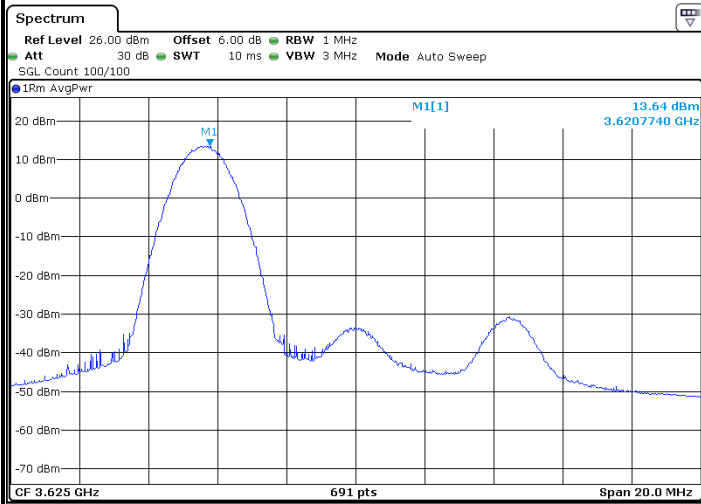
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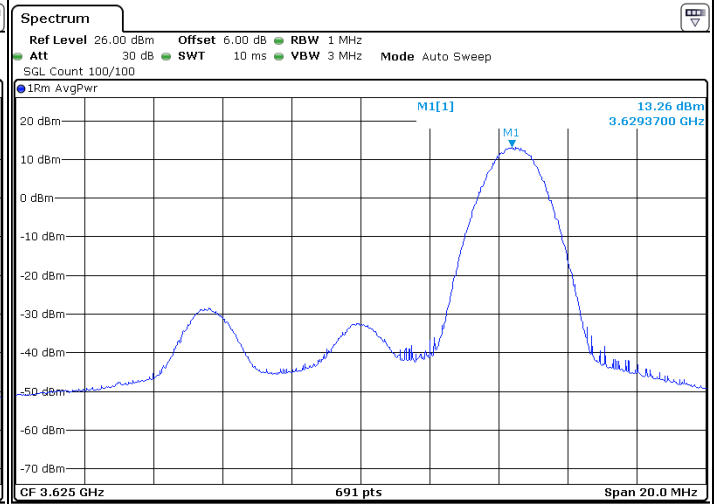
LTE Band 48 / 10MHz

64QAM

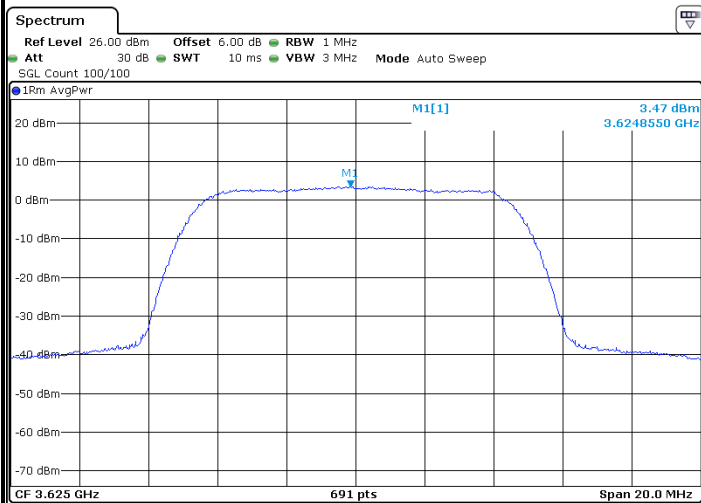
MiddleChannel / 1RB0



Middle Channel / 1RBmax



Middle Channel / Full RB



N/A

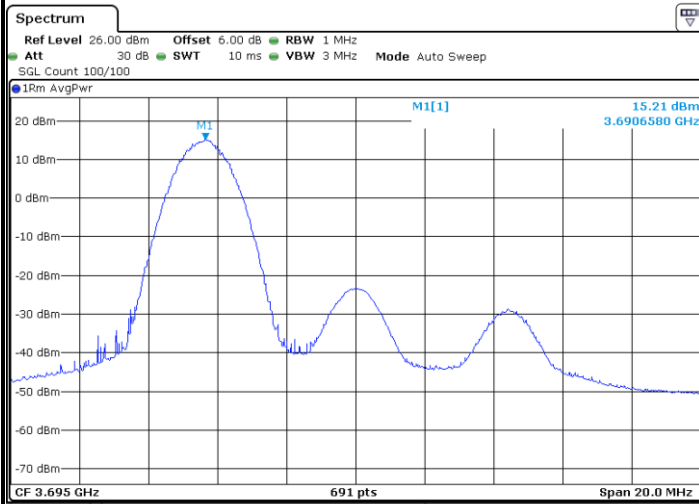
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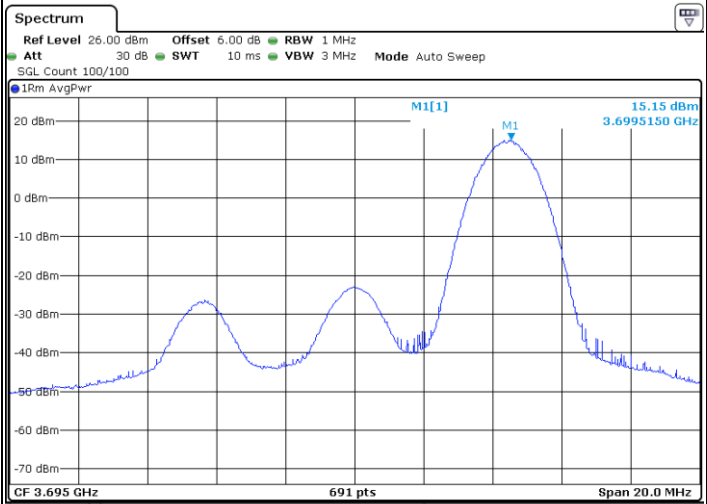
LTE Band 48 / 10MHz

64QAM

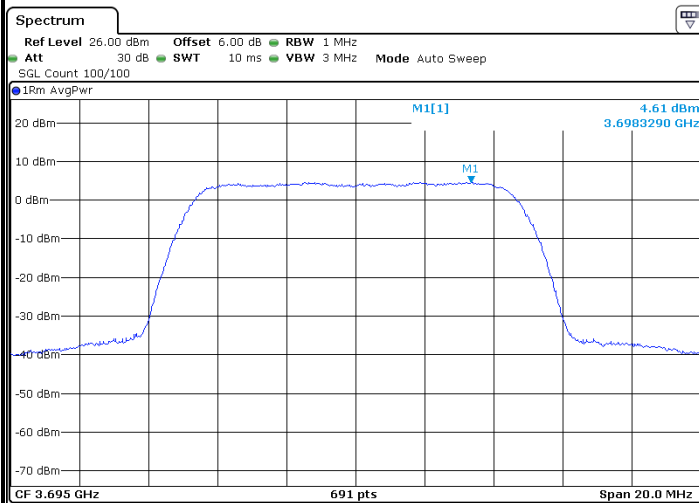
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / Full RB



N/A

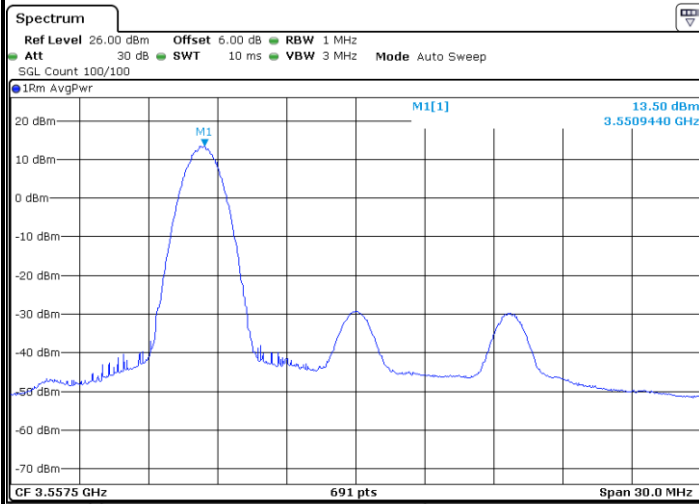
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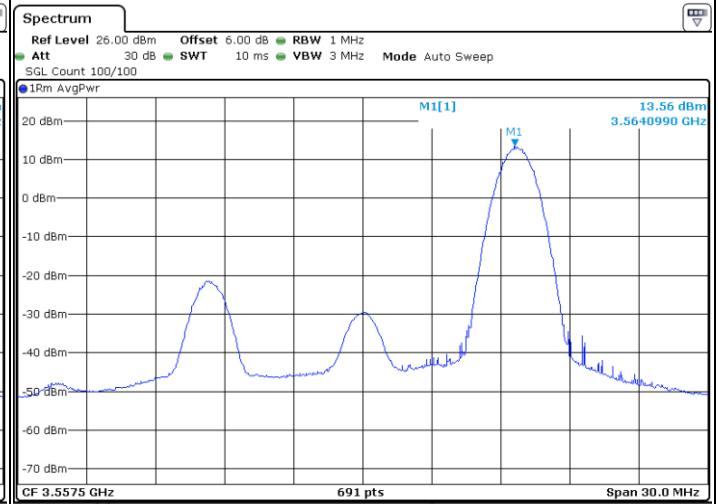
LTE Band 48 / 15MHz

64QAM

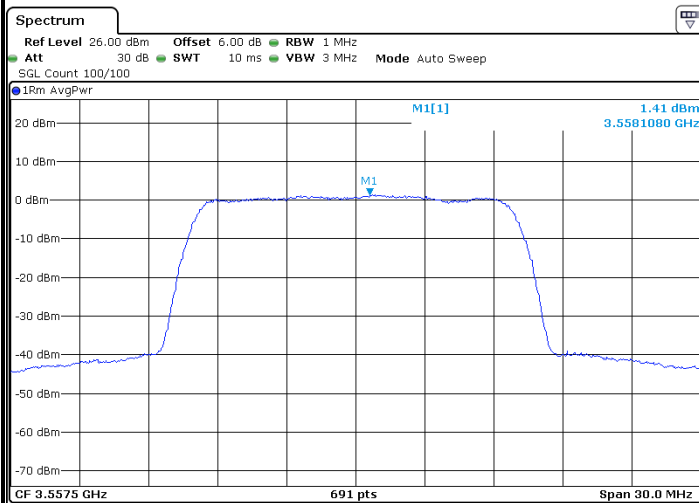
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / Full RB



N/A

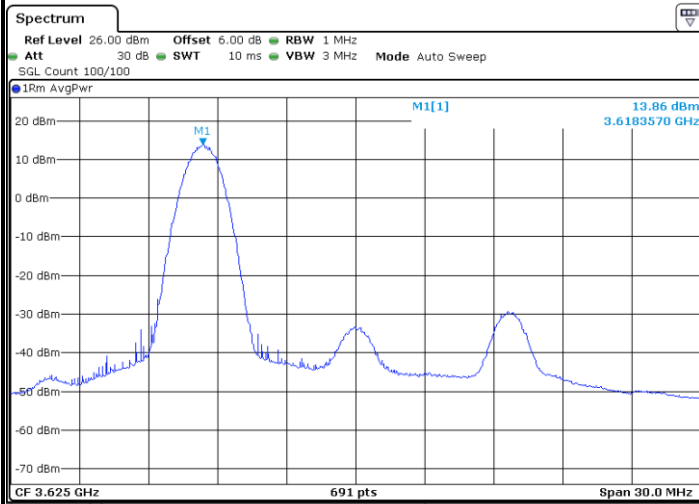
/



LTE Band 48 / 15MHz

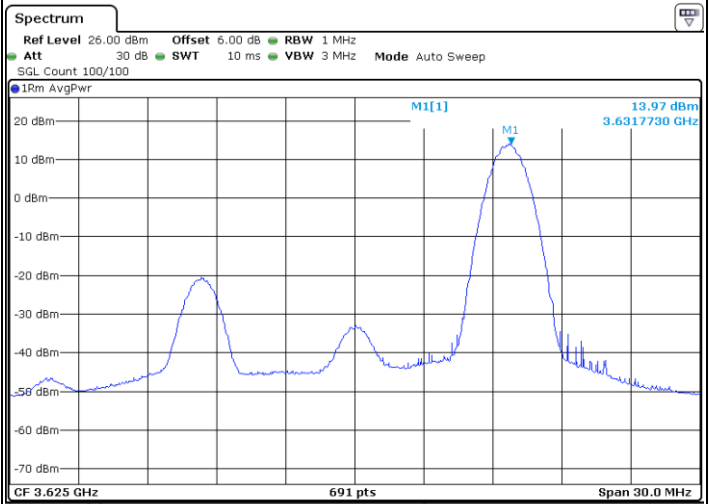
64QAM

Middle Channel / 1RB0



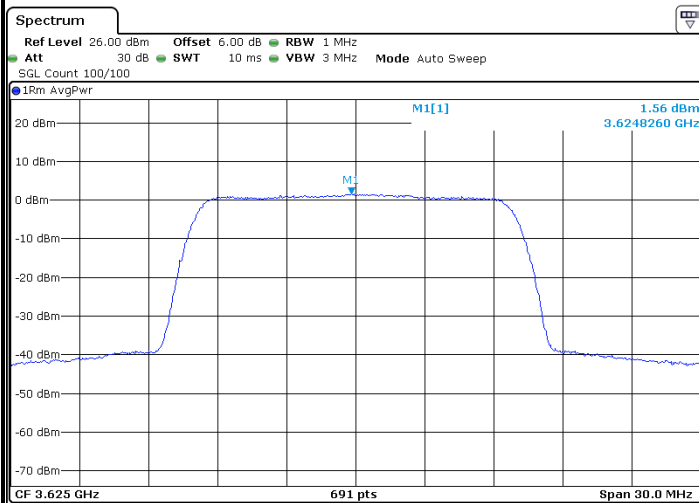
Date: 8 APR 2020 20:04:28

Middle Channel / 1RBmax



Date: 8 APR 2020 20:04:49

Middle Channel / Full RB



Date: 8 APR 2020 20:02:47

N/A

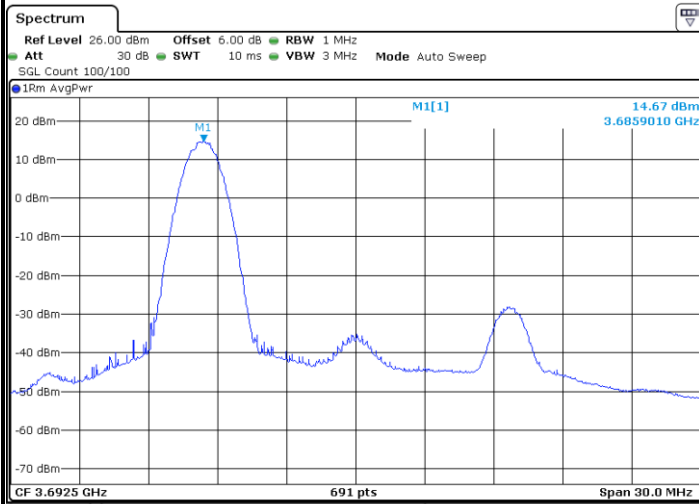
/



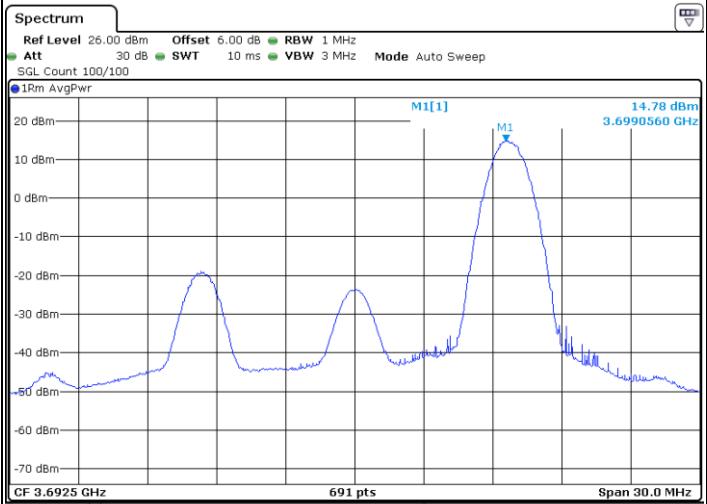
LTE Band 48 / 15MHz

64QAM

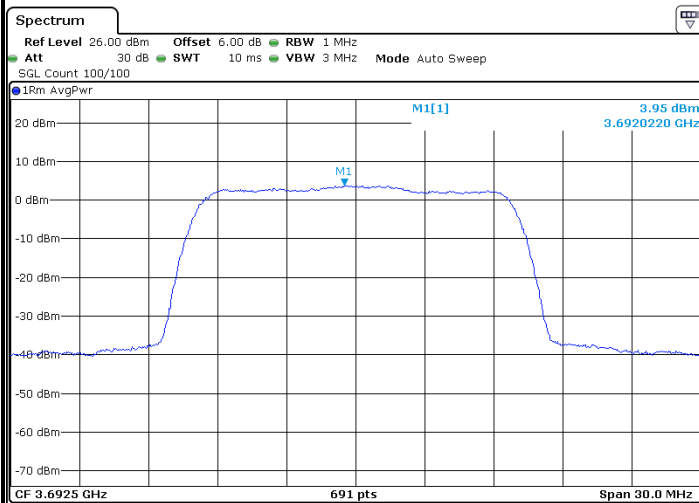
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / Full RB



N/A

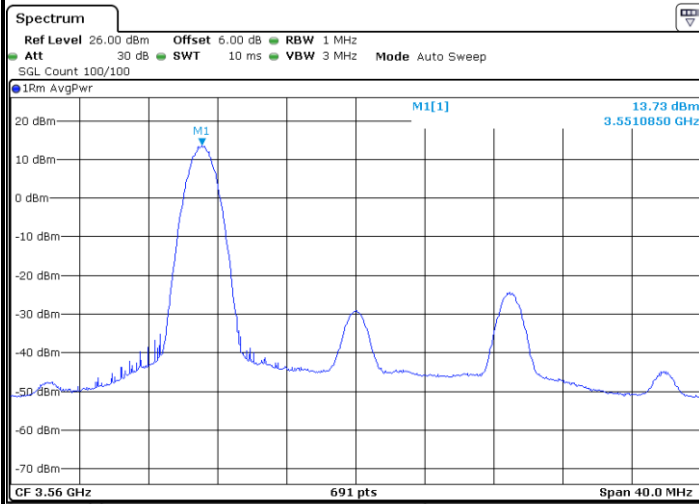
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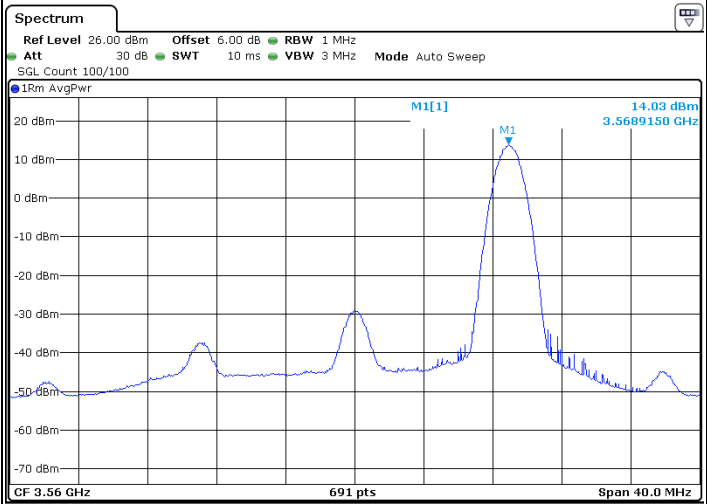
LTE Band 48 / 20MHz

64QAM

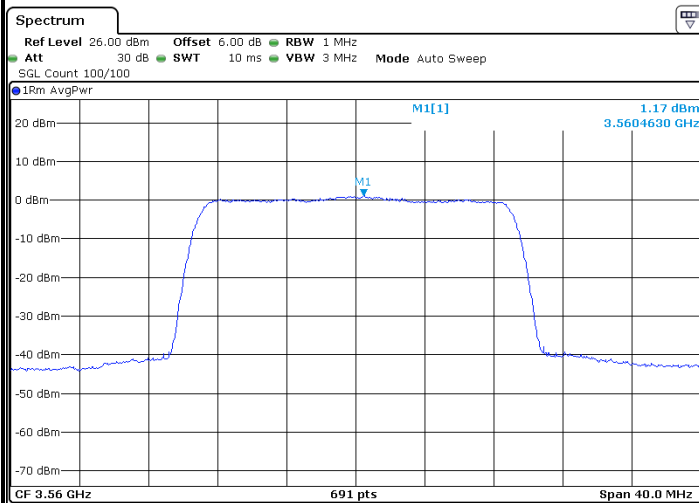
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / Full RB



N/A

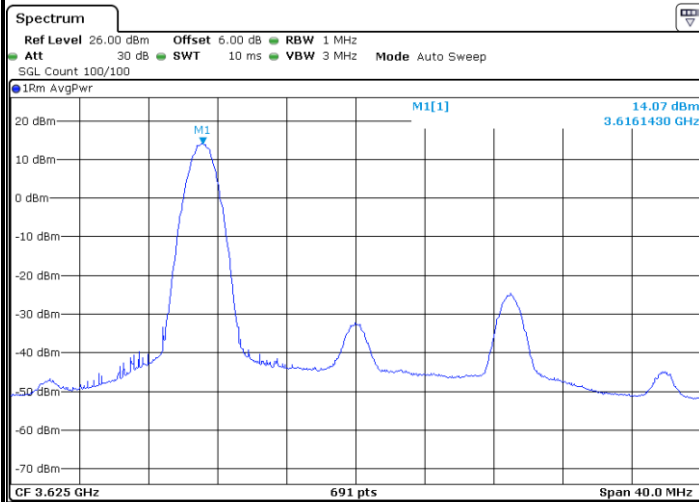
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LTE Band 48 / 20MHz

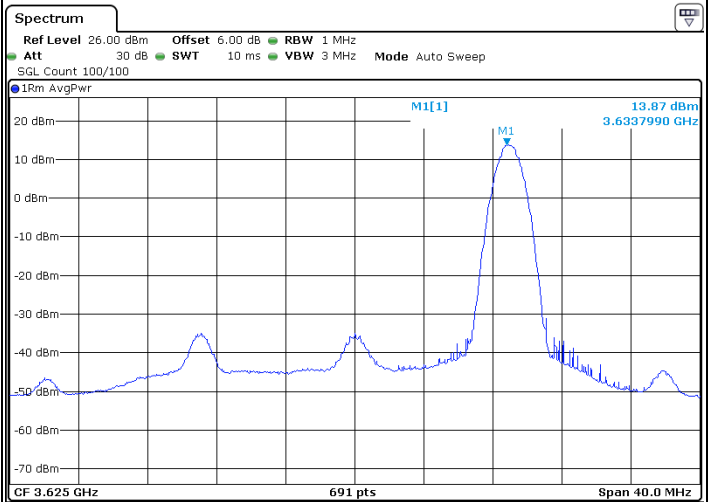
64QAM

Middle Channel / 1RB0



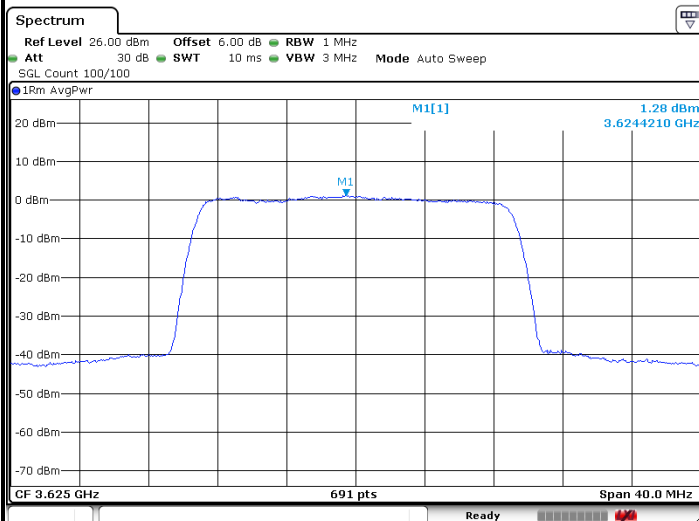
Date: 8 APR 2020 20:16:05

Middle Channel / 1RBmax



Date: 8 APR 2020 20:15:46

Middle Channel / Full RB



Date: 8 APR 2020 20:17:46

N/A

/

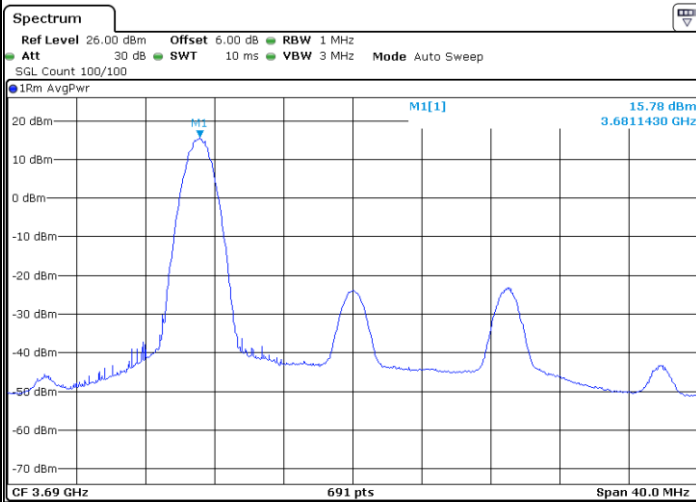


LTE Band 48 / 20MHz

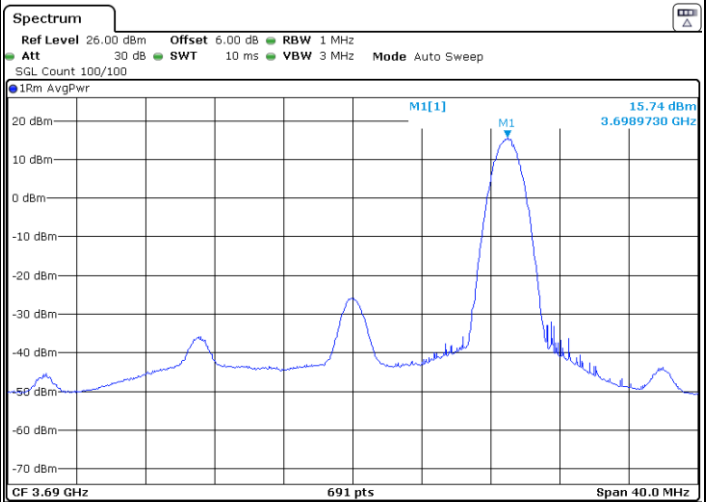
64QAM

Highest Channel / 1RB0

Highest Channel / 1RBmax



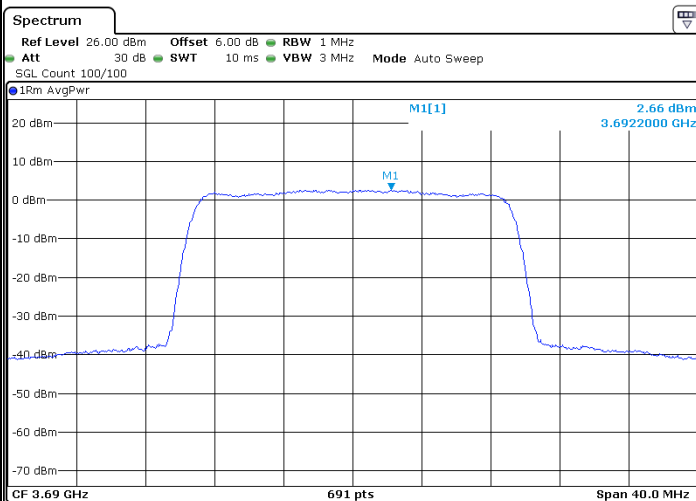
Date: 8 APR 2020 20:20:15



Date: 8 APR 2020 20:20:34

Highest Channel / Full RB

N/A



Date: 8 APR 2020 20:18:35

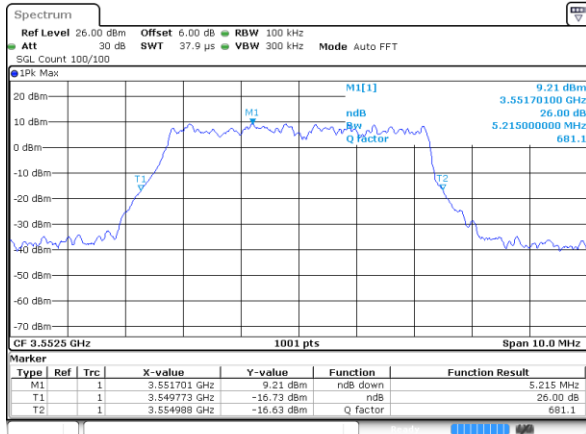
**26dB Bandwidth**

Mode	LTE Band 48 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	5.22	4.92	9.83	9.93	14.21	14.72	20.10	20.10
Middle CH	4.80	4.90	10.15	9.83	14.51	14.21	20.14	19.98
Highest CH	5.23	4.99	9.93	9.81	14.15	14.33	20.10	20.18
Mode	LTE Band 48 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM	
Lowest CH	5.06		9.77		14.30		20.06	
Middle CH	4.98		9.85		14.36		20.06	
Highest CH	5.07		9.59		14.15		20.14	



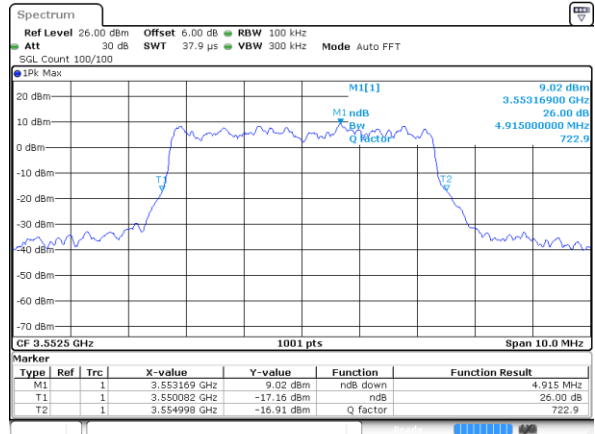
LTE Band 48

Lowest Channel / 5MHz / QPSK



Date: 4 APR 2020 02:15:28

Lowest Channel / 5MHz / 16QAM



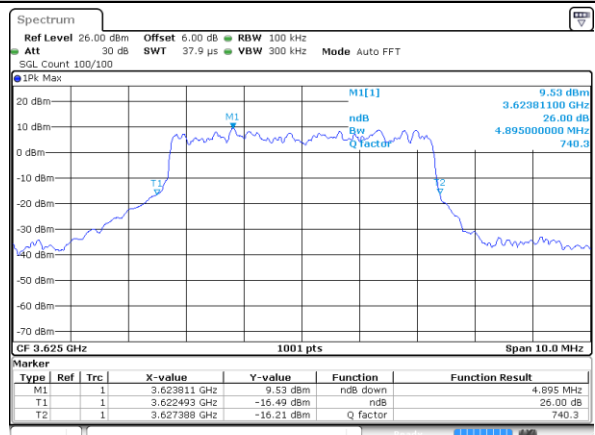
Date: 4 APR 2020 02:16:03

Middle Channel / 5MHz / QPSK



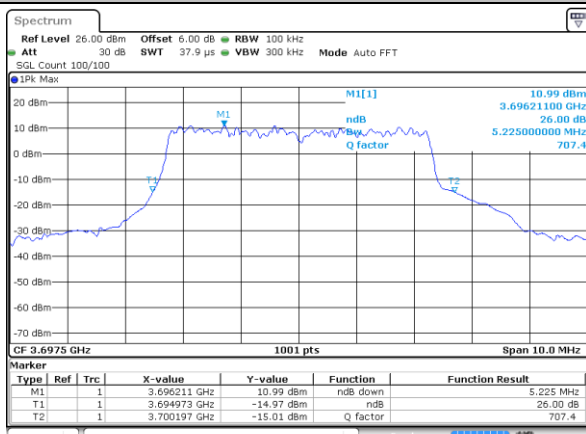
Date: 4 APR 2020 02:18:54

Middle Channel / 5MHz / 16QAM



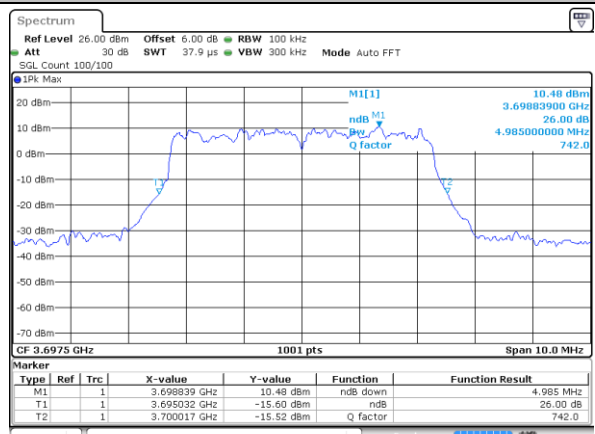
Date: 4 APR 2020 02:18:24

Highest Channel / 5MHz / QPSK



Date: 4 APR 2020 02:19:40

Highest Channel / 5MHz / 16QAM

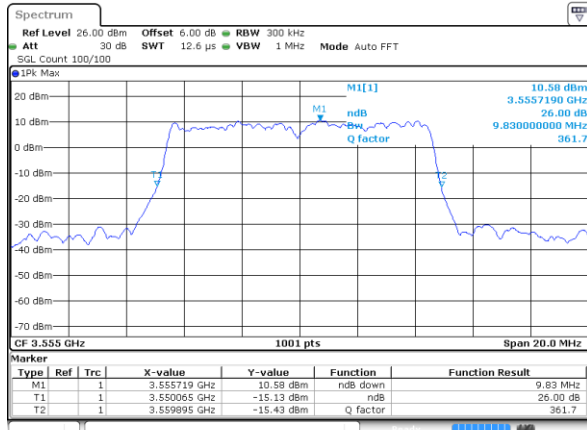


Date: 4 APR 2020 02:20:10



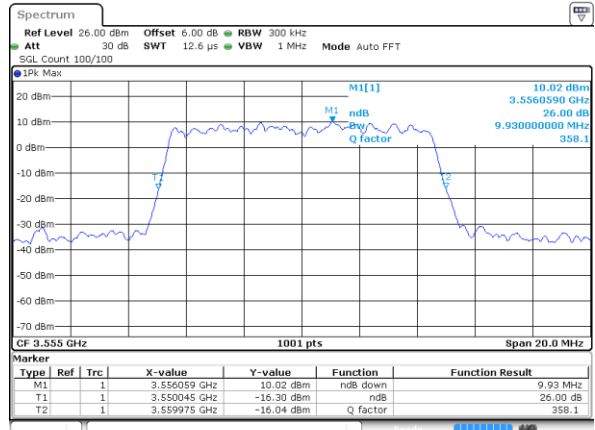
LTE Band 48

Lowest Channel / 10MHz / QPSK



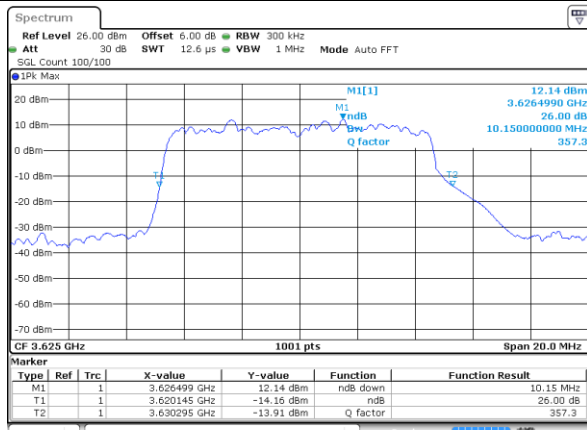
Date: 4 APR 2020 02:56:19

Lowest Channel / 10MHz / 16QAM



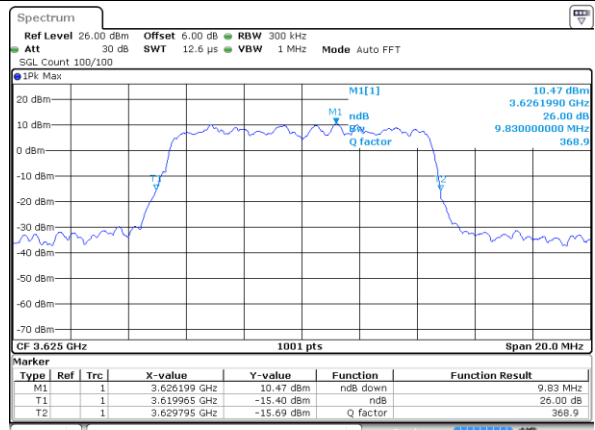
Date: 4 APR 2020 02:56:48

Middle Channel / 10MHz / QPSK



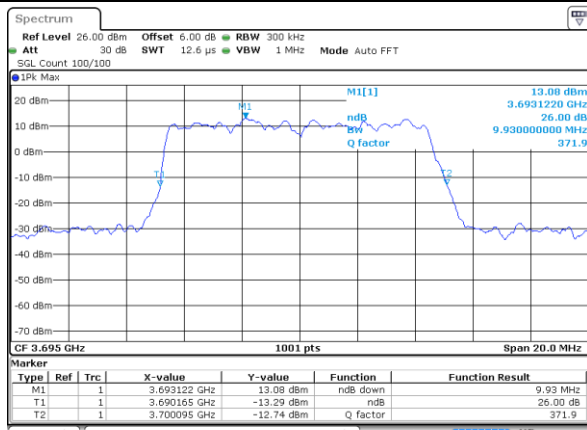
Date: 4 APR 2020 02:56:17

Middle Channel / 10MHz / 16QAM



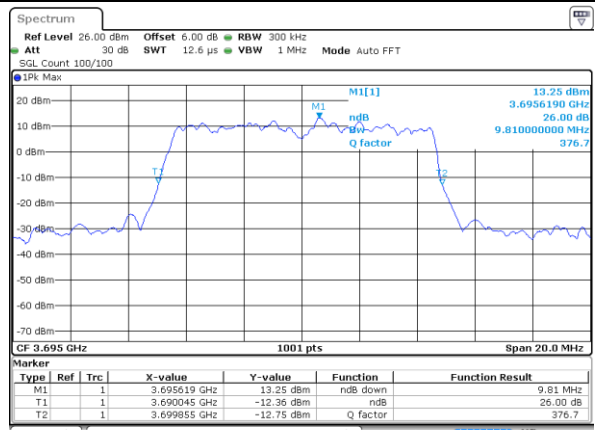
Date: 4 APR 2020 02:56:47

Highest Channel / 10MHz / QPSK



Date: 4 APR 2020 03:00:02

Highest Channel / 10MHz / 16QAM

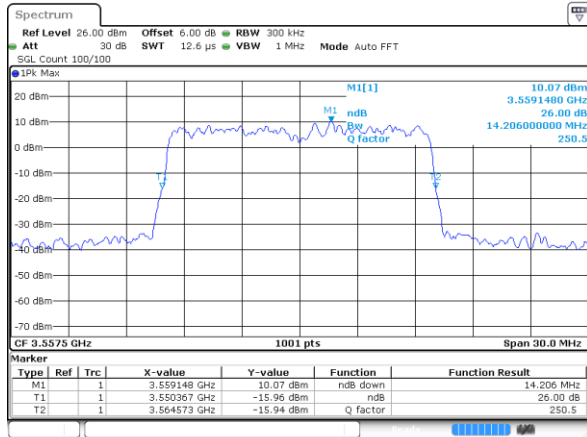


Date: 4 APR 2020 03:00:33



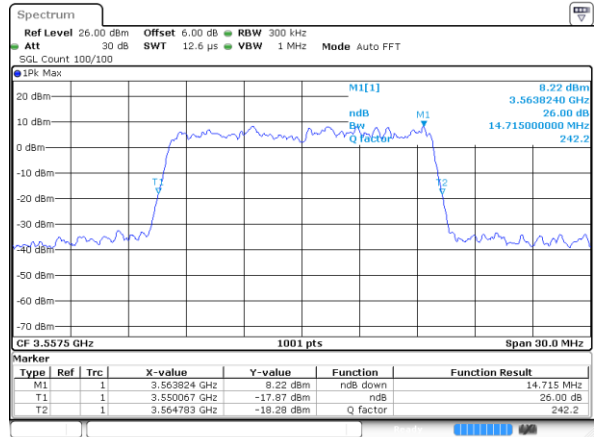
LTE Band 48

Lowest Channel / 15MHz / QPSK



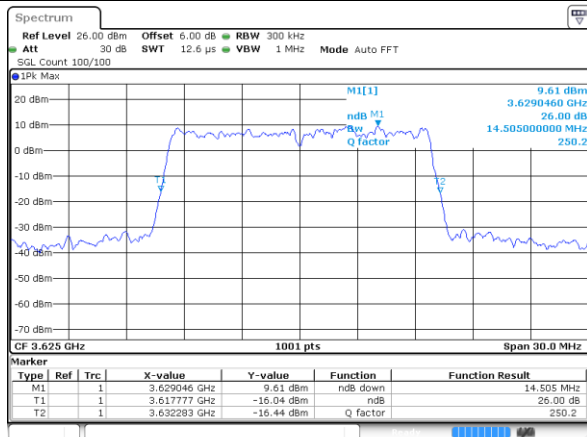
Date: 4 APR 2020 03:16:22

Lowest Channel / 15MHz / 16QAM



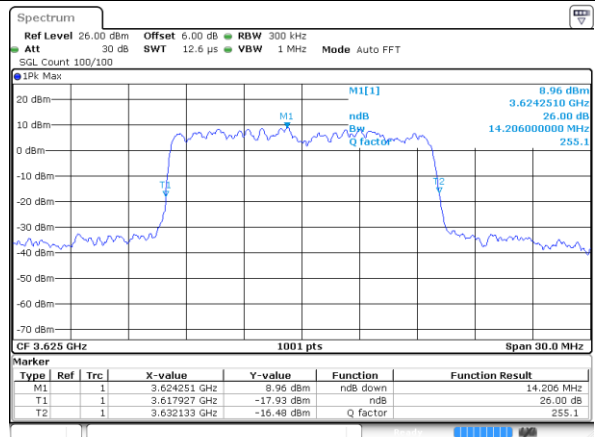
Date: 4 APR 2020 03:15:50

Middle Channel / 15MHz / QPSK



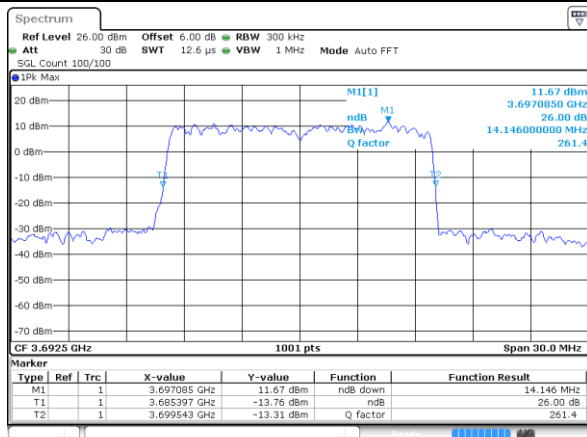
Date: 4 APR 2020 03:17:00

Middle Channel / 15MHz / 16QAM



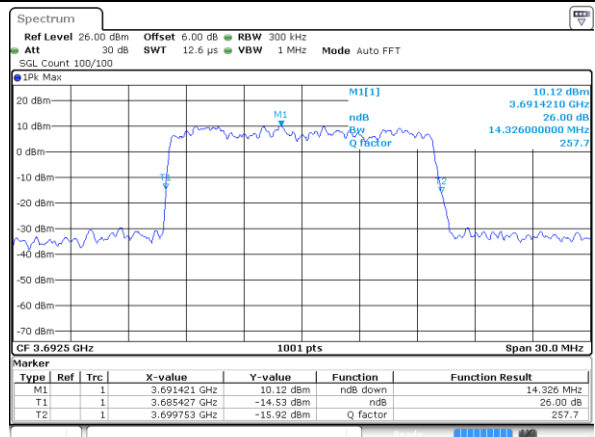
Date: 4 APR 2020 03:17:30

Highest Channel / 15MHz / QPSK



Date: 4 APR 2020 03:20:01

Highest Channel / 15MHz / 16QAM



Date: 4 APR 2020 03:19:32