FCC RF Test Report

APPLICANT	:	OnePlus Technology (Shenzhen) Co.,Ltd.
EQUIPMENT	:	Mobile Phone
BRAND NAME	:	ONEPLUS
MODEL NAME	:	CPH2419, CPH2417
FCC ID	:	2ABZ2-AA497
STANDARD	:	47 CFR Part 2, 96
CLASSIFICATION	:	Citizens Band End User Devices (CBE)
EQUIPMENT TYPE	:	End User Equipment
TEST DATE(S)	:	May 24, 2022 ~ Jun. 27, 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.

Jason Jia

Approved by: Jason Jia

ACCREDITED
Cert #5145.01

Sporton International Inc. (ShenZhen)

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

People's Republic of China

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History of this test report

Report No.	Version	Description	Issued Date
FG251121E	01	Initial issue of report	Jul. 08, 2022

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Reporting only	-
–	§96.41	Peak-to-Average Ratio	Not Applicable	Not applicable for End User Devices
3.3	§96.41	Maximum E.I.R.P	Pass	-
		Maximum Power Spectral Density	Not Applicable	Not applicable for End User Devices
3.4	§2.1049 §96.41	Occupied Bandwidth	Reporting only	-
3.5	§2.1051 §96.41	Conducted Band Edge Measurement Adjacent Channel Leakage Ratio	Pass	-
3.6	§2.1051 §96.41	Conducted Spurious Emission	Pass	-
3.7	§2.1055	Frequency Stability for Temperature & Voltage	Pass	-
4.4	§2.1051 §96.41	Radiated Spurious Emission	Pass	Under limit 9.49 dB at 11043.000 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

OnePlus Technology (Shenzhen) Co.,Ltd.
18C02, 18C03, 18C04, 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, China.

1.2 Manufacturer

OnePlus Technology (Shenzhen) Co.,Ltd.
18C02, 18C03, 18C04, 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, China.

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	ONEPLUS
Model Name	CPH2419, CPH2417
FCC ID	2ABZ2-AA497
Tx Frequency	LTE Band 48: 3550 MHz ~ 3700 MHz
Rx Frequency	LTE Band 48: 3550 MHz ~ 3700 MHz
Bandwidth	5MHz / 10MHz / 15MHz / 20MHz
Antenna Type	Fixed Internal Antenna
Antenna Gain	<Ant. 5/10>: -2.0 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM
IMEI Code	Conducted: 861677060020370 Radiation: 861677060025791
HW Version	2AA495-0
SW Version	CPH2419_11_A.03
EUT Stage	Production Unit

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The different model name is for different market purpose.
3. The maximum EIRP is calculated from max Output power and antenna gain, only the maximum EIRP is shown in the report and LTE Band 48 for Ant. 10 and LTE Band 48C for Ant.5.

1.4 Maximum EIRP Power and Emission Designator

LTE Band 48		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5	**3552.5~3697.5**	0.1578	4M51G7D	0.1256	4M54W7D
10	**3555~3695**	0.1578	9M05G7D	0.1239	9M07W7D
15	**3557.5~3692.5**	0.1585	13M5G7D	0.1262	13M5W7D
20	**3560~3690**	0.1611	17M9G7D	0.1276	18M0W7D

LTE Band 48C_CA	QPSK		16QAM/64QAM/256QAM	
BW (MHz) Frequency (MHz)	Maximum EIRP(W)	Emission Designator (99%OBW)	Maximum EIRP(W)	Emission Designator (99%OBW)
5MHz+20MHz (3553.3 ~ 3690 MHz)	0.0865	23M4G7D	0.0863	23M4W7D
10MHz +20MHz (3555.5 ~ 3690 MHz)	0.0865	28M0G7D	0.0863	28M2W7D
15MHz +20MHz (3557.8 ~ 3690 MHz)	0.0857	32M9G7D	0.0863	33M1W7D
20MHz+5MHz (3560 ~ 3696.7 MHz)	0.0863	23M5G7D	0.0861	23M5W7D
20MHz+10MHz (3560 ~ 3694.5 MHz)	0.0855	28M2G7D	0.0853	28M2W7D
20MHz+15MHz (3560 ~ 3692.2 MHz)	0.0873	33M1G7D	0.0871	32M9W7D
20MHz+20MHz (3560 ~ 3690 MHz)	0.0991	38M0G7D	0.1016	37M9W7D

Note: All modulations have been tested, and only the worst test results of PSK & QAM are shown in the report.

1.5 Testing Site

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.**
	03CH03-SZ	CN1256	421272

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24

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
- ANSI / TIA-603-E
- 47 CFR Part 2, 96
- FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- FCC KDB 940660 D01 Part 96 CBRS v03
- 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

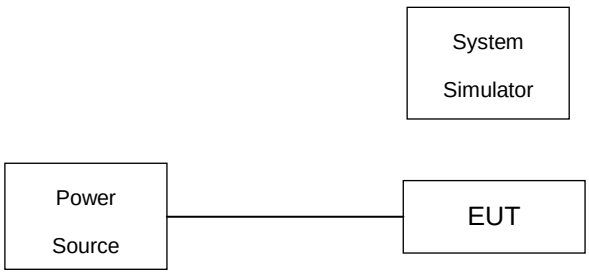
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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	256QAM	1	Half	Full	L	M	H
Max. Output Power	48	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Adjacent Channel Leakage Ratio	48	-	-	v	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	v
Conducted Spurious Emission	48	-	-	v	v	v	v	v	v	v	-	v	v	v	v	v	v
E.R.P / E.I.R.P	48	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Frequency Stability	48	-	-		v			v			-	v				v	
Radiated Spurious Emission	48	Worst Case													v	v	v

Test Items	Band	Bandwidth (MHz)								Modulation				RB #			Test Channel		
		20+20	20+15	15+20	20+10	10+20	10+10	20+5	5+20	QPSK	16QAM	64QAM	256QAM	1	Half	Full	L	M	H
Max. Output Power	48C	v	v	v	v	v		v	v	v	v	v	v	v		v	v	v	v
26dB and 99% Bandwidth	48C	v	v	v	v	v		v	v	v	v	v				v	v	v	v
Conducted Band Edge	48C	v	v	v	v	v		v	v	v	v	v		v	v	v	v	v	v
Conducted Spurious Emission	48C	v	v	v	v	v		v	v	v	v	v		v	v	v	v	v	v
Adjacent Channel Leakage Ratio	48C	v	v	v	v	v		v	v	v	v	v		v	v	v	v	v	v
E.R.P / E.I.R.P	48C	v	v	v	v	v		v	v	v	v	v	v	v		v	v	v	v
Radiated Spurious Emission	48C	Worst Case															v	v	v
Note	1. The mark "**v** " means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. All test items are based on engineering evaluation. 5. All the radiated test cases were performed with Adapter, Battery and USB Cable. 6. For 256QAM, the conducted power lower than 16QAM/64QAM, thus 16QAM/64QAM has assessed to test.																	

2.2 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

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.	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 and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5.5 dB and 10dB attenuator.

Example :

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

= 5.5 + 10 = 15.5 (dB)

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

LTE Band 48C_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
5 + 20	PCC	Channel	55273	55898	56523
		Frequency	3553.3	3615.8	3678.3
	SCC	Channel	55390	56015	56640
		Frequency	3565	3627.5	3690
20 + 5	PCC	Channel	55340	55965	56590
		Frequency	3560	3622.5	3685
	SCC	Channel	55457	56082	56707
		Frequency	3571.7	3634.2	3696.7
10 + 20	PCC	Channel	55295	55896	56496
		Frequency	3555.5	3615.6	3675.6
	SCC	Channel	55439	56040	56640
		Frequency	3569.9	3630	3690
20 + 10	PCC	Channel	55340	55941	56541
		Frequency	3560	3620.1	3680.1
	SCC	Channel	55484	56085	56685
		Frequency	3574.4	3634.5	3694.5
15 + 20	PCC	Channel	55318	55893	56469
		Frequency	3557.8	3615.3	3672.9
	SCC	Channel	55489	56064	56640
		Frequency	3574.9	3632.4	3690
20 + 15	PCC	Channel	55340	55916	56491
		Frequency	3560	3617.6	3675.1
	SCC	Channel	55511	56087	56662
		Frequency	3577.1	3634.7	3692.2
20 +20	PCC	Channel	55340	55891	56442
		Frequency	3560	3615.1	3670.2
	SCC	Channel	55538	56089	56640
		Frequency	3579.8	3634.9	3690

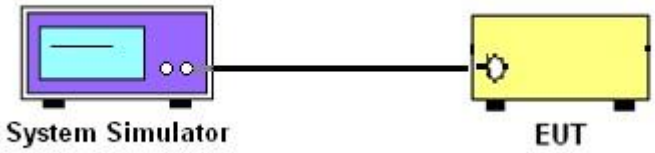
3 Conducted Test Items

3.1 Measuring Instruments

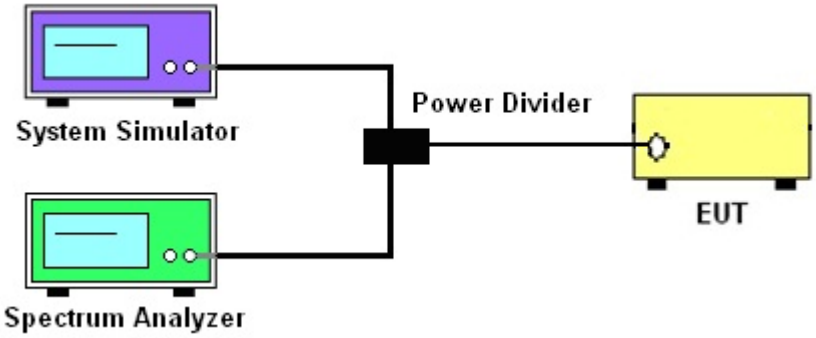
See list of measuring instruments of this test report.

3.1.1 Test Setup

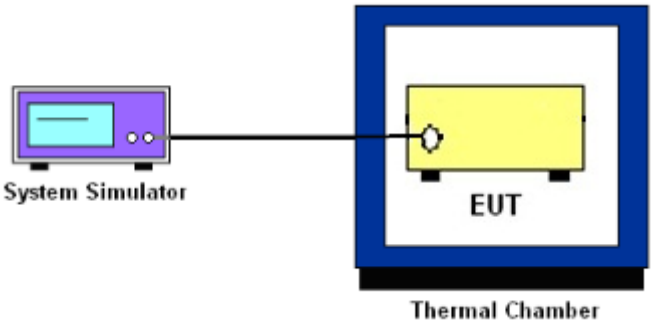
3.1.2 Conducted Output Power



3.1.3 PSD, 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 EIRP

3.3.1 Description of the EIRP Measurement

EIRP limits for CBRS equipment as below table:

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

Remark: 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)

3.3.2 Test Procedures for EIRP

1. Establishing a communications link with the call box (Base station) to measure the Maximum conducted power, the parameters were set to force the EUT transmitting at maximum output power level. Use the average power measurement function to measure total channel power of each channel bandwidth (per ANSI C63.26-2015 Section 5.2.1)

2. Determining ERP and/or EIRP from conducted RF output power measurements (Per ANSI C63.26-2015 Section 5.2.5.5)

   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 Occupied Bandwidth

3.4.1 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.

3.4.2 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.

3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

Part 96.41 (e) (1) (i)

For CBSD the emission limits 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

Part 96.41 (e) (1) (ii)

For End User Devices the emission limits outside the fundamental are as follows:

Within 0 MHz to B MHz above and below the assigned channel ≤ −13 dBm/MHz

Greater than B MHz above and below the assigned channel ≤ −25 dBm/MHz

where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device.

Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

Part 96.41 (e) (2)

For CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed −25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz

3.5.2 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 >= 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.
8. 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.

3.6 Conducted Spurious Emission

3.6.1 Description of Conducted Spurious Emission Measurement

96.41 (e)(2)

The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/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 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. Set spectrum analyzer with RMS detector.
7. Taking the record of maximum spurious emission.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. The limit line is −40dBm/MHz.

3.7 Frequency Stability

3.7.1 Description of Frequency Stability Measurement

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

3.7.2 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.

3.7.3 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.

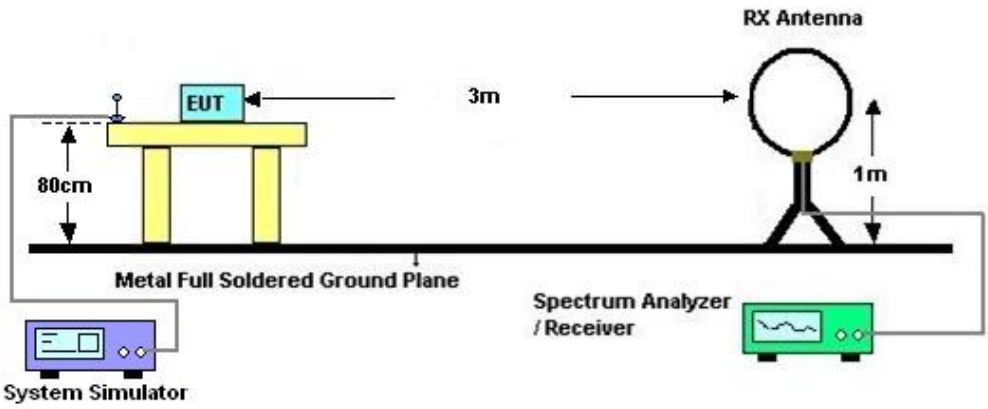
4 Radiated Test Items

4.1 Measuring Instruments

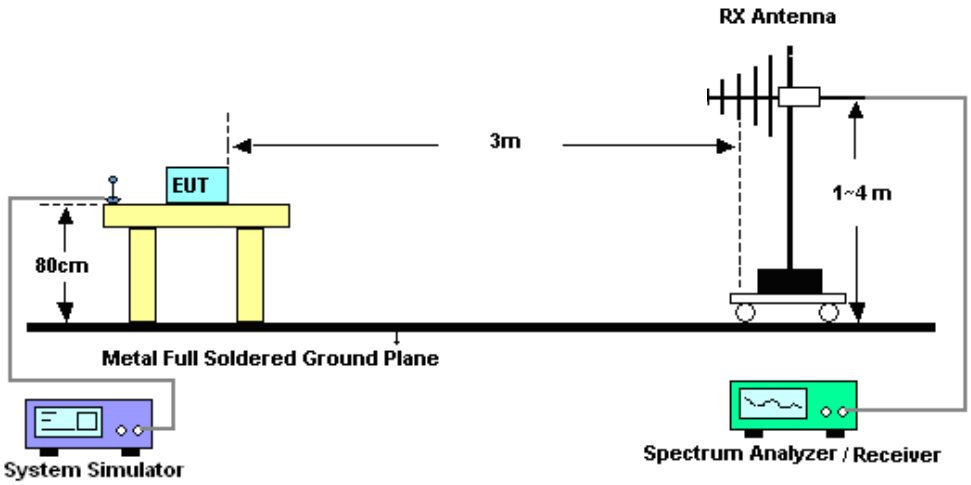
See list of measuring instruments of this test report.

4.2 Test Setup

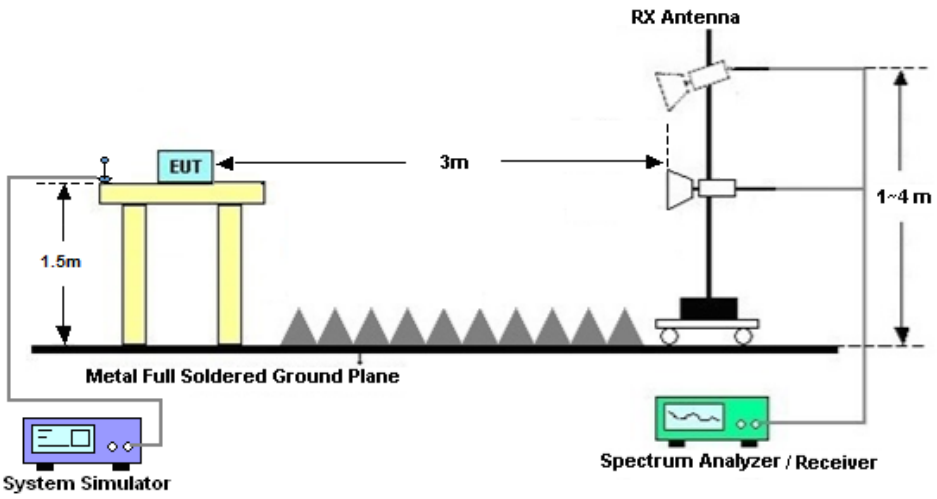
4.2.1 For radiated test below 30MHz



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 Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. 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.
   EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
   ERP (dBm) = EIRP - 2.15
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
   The limit line is −40dBm/MHz

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. 07, 2022	May 24, 2022~ Jun. 27, 2022	Apr. 06, 2023	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-0426 5	60.06.020. 0077	0.4GHz~26.5G Hz	Dec. 25, 2021	May 24, 2022~ Jun. 27, 2022	Dec. 24, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangrou p	LP-150U	H2014081 803	-40~+150°C	Jul. 14, 2021	May 24, 2022~ Jun. 27, 2022	Jul. 13, 2022	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY544500 83	20Hz~8.4GHz	Apr. 06, 2022	Jun. 08, 2022	Apr. 05, 2023	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2021	Jun. 08, 2022	Jun. 21, 2022	Radiation (03CH03-SZ)
EXA Spectrum Anaiyzer	KEYSIGHT	N9010A	MY551502 46	10Hz~44GHz;	Apr. 06, 2022	Jun. 08, 2022	Apr. 05, 2023	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Jun. 22, 2021	Jun. 08, 2022	Jun. 21, 2022	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA9120D	9120D-135 5	1GHz~18GHz	Apr. 08, 2022	Jun. 08, 2022	Apr. 07, 2023	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 22, 2021	Jun. 08, 2022	Oct. 21, 2022	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Oct. 22, 2021	Jun. 08, 2022	Oct. 21, 2022	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 10, 2022	Jun. 08, 2022	Apr. 09, 2023	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY395013 02	500MHz~26.5G Hz	Dec. 30, 2020	Jun. 08, 2022	Dec. 29, 2021	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010001 985	N/A	NCR	Jun. 08, 2022	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jun. 08, 2022	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jun. 08, 2022	NCR	Radiation (03CH03-SZ)

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 = 2Uc(y))	3.0dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.6dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.8dB

---------- THE END ----------

Appendix A. Test Results of Conducted Test

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

Conducted Output Power(Average power)

LTE Band 48:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.
Channel				55340	55990	56640
Frequency (MHz)				3560	3625	3690
20	QPSK	1	0	23.96	23.91	24.07
20	QPSK	1	49	23.95	23.93	24.01
20	QPSK	1	99	23.88	23.86	23.96
20	QPSK	50	0	23.07	23.02	23.18
20	QPSK	50	24	23.02	22.93	23.12
20	QPSK	50	50	23.01	22.92	23.08
20	QPSK	100	0	23.05	22.98	23.03
20	16QAM	1	0	22.94	22.9	22.93
20	16QAM	1	49	23.06	22.96	22.99
20	16QAM	1	99	23.05	22.97	23.04
20	16QAM	50	0	22.02	21.94	21.95
20	16QAM	50	24	22.07	22.06	22.02
20	16QAM	50	50	22.03	21.97	22.11
20	16QAM	100	0	22.05	22.04	22.01
20	64QAM	1	0	21.95	21.94	21.85
20	64QAM	1	49	21.98	21.96	21.99
20	64QAM	1	99	21.96	21.9	21.94
20	64QAM	50	0	21.01	20.93	20.96
20	64QAM	50	24	21.09	21.01	20.98
20	64QAM	50	50	21.02	20.93	21.11
20	64QAM	100	0	21.07	21.03	21.01
20	256QAM	1	0	18.79	18.87	18.84
20	256QAM	1	49	18.75	19.06	18.82
20	256QAM	1	99	18.73	19	18.80
20	256QAM	50	0	18.72	18.91	18.78
20	256QAM	50	24	18.76	19.09	18.75
20	256QAM	50	50	18.75	18.93	18.79
20	256QAM	100	0	18.78	18.82	18.75
Channel				55315	55990	56665
Frequency (MHz)				3557.5	3625	3692.5
15	QPSK	1	0	23.83	23.81	24
15	QPSK	1	37	23.81	23.77	23.95
15	QPSK	1	74	23.79	23.69	23.8
15	QPSK	36	0	22.92	22.83	23.05
15	QPSK	36	20	22.97	22.89	23.02

15	QPSK	36	39	22.85	22.78	22.96
15	QPSK	75	0	23	22.9	22.96
15	16QAM	1	0	22.88	22.85	22.85
15	16QAM	1	37	23.01	22.95	22.83
15	16QAM	1	74	22.96	22.91	22.93
15	16QAM	36	0	21.9	21.8	21.9
15	16QAM	36	20	21.92	21.88	21.97
15	16QAM	36	39	21.9	21.83	22.02
15	16QAM	75	0	21.92	21.82	21.94
15	64QAM	1	0	21.86	21.79	21.7
15	64QAM	1	37	21.85	21.77	21.83
15	64QAM	1	74	21.91	21.9	21.84
15	64QAM	36	0	20.85	20.75	20.86
15	64QAM	36	20	21.03	21.02	20.92
15	64QAM	36	39	20.89	20.83	20.98
15	64QAM	75	0	20.96	20.91	20.95
15	256QAM	1	0	18.69	18.95	18.77
15	256QAM	1	37	18.70	19.07	18.77
15	256QAM	1	74	18.57	18.88	18.67
15	256QAM	36	0	18.65	18.87	18.69
15	256QAM	36	20	18.63	18.96	18.70
15	256QAM	36	39	18.62	18.9	18.67
15	256QAM	75	0	18.67	18.93	18.63
Channel				55290	55990	56690
Frequency (MHz)				3555	3625	3695
10	QPSK	1	0	23.85	23.82	23.98
10	QPSK	1	25	23.85	23.77	23.93
10	QPSK	1	49	23.78	23.69	23.81
10	QPSK	25	0	22.94	22.84	23.03
10	QPSK	25	12	22.88	22.84	23.05
10	QPSK	25	25	22.96	22.89	22.98
10	QPSK	50	0	22.93	22.84	22.88
10	16QAM	1	0	22.81	22.75	22.83
10	16QAM	1	25	22.93	22.88	22.83
10	16QAM	1	49	22.91	22.89	22.93
10	16QAM	25	0	21.95	21.89	21.89
10	16QAM	25	12	21.99	21.93	21.9
10	16QAM	25	25	21.89	21.87	22.01
10	16QAM	50	0	21.97	21.93	21.85
10	64QAM	1	0	21.84	21.76	21.77
10	64QAM	1	25	21.89	21.8	21.93
10	64QAM	1	49	21.84	21.78	21.78
10	64QAM	25	0	20.89	20.79	20.84
10	64QAM	25	12	21	20.91	20.84
10	64QAM	25	25	20.92	20.88	21.05
10	64QAM	50	0	20.92	20.85	20.9
10	256QAM	1	0	18.71	18.99	18.74
10	256QAM	1	25	18.59	18.92	18.69
10	256QAM	1	49	18.62	18.98	18.69
10	256QAM	25	0	18.58	18.94	18.64

10	256QAM	25	12	18.65	18.98	18.59
10	256QAM	25	25	18.64	18.77	18.63
10	256QAM	50	0	18.63	18.81	18.66
Channel				55265	55990	56715
Frequency (MHz)				3552.5	3625	3697.50
5	QPSK	1	0	23.89	23.81	23.98
5	QPSK	1	12	23.83	23.8	23.91
5	QPSK	1	24	23.74	23.71	23.82
5	QPSK	12	0	22.95	22.85	23.11
5	QPSK	12	7	22.94	22.92	22.99
5	QPSK	12	13	22.93	22.9	22.94
5	QPSK	25	0	22.99	22.9	22.95
5	16QAM	1	0	22.79	22.78	22.77
5	16QAM	1	12	22.99	22.96	22.93
5	16QAM	1	24	22.95	22.88	22.9
5	16QAM	12	0	21.96	21.89	21.89
5	16QAM	12	7	21.96	21.95	21.87
5	16QAM	12	13	21.97	21.88	21.98
5	16QAM	25	0	21.89	21.86	21.85
5	64QAM	1	0	21.84	21.75	21.72
5	64QAM	1	12	21.82	21.73	21.88
5	64QAM	1	24	21.91	21.84	21.88
5	64QAM	12	0	20.94	20.93	20.88
5	64QAM	12	7	21.02	20.98	20.82
5	64QAM	12	13	20.86	20.78	21.02
5	64QAM	25	0	20.93	20.85	20.94
5	256QAM	1	0	18.67	18.94	18.68
5	256QAM	1	12	18.66	18.99	18.73
5	256QAM	1	24	18.59	18.97	18.69
5	256QAM	12	0	18.58	18.97	18.65
5	256QAM	12	7	18.69	19.04	18.67
5	256QAM	12	13	18.64	18.95	18.70
5	256QAM	25	0	18.73	18.88	18.67

LTE Band 48C:

CA_48C									
Combination 20MHz+20MHz (100RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
55340	55538	QPSK	100	0	100	0	200	≤2	12
			1	0	1	99	2	≤8.5	2.95
			1	99	1	0	2	≤0	18.22
		16QAM	100	0	100	0	200	≤3	11.98
			1	0	1	99	2	≤8.5	3.03
			1	99	1	0	2	≤1	18.26
		64QAM	100	0	100	0	200	≤3	12.02
			1	0	1	99	2	≤8.5	5.03
			1	99	1	0	2	≤1	18.23
		256QAM	100	0	100	0	200	≤3	12
			1	0	1	99	2	≤8.5	5.01
			1	99	1	0	2	≤3	17.78
55891	56089	QPSK	100	0	100	0	200	≤2	18.53
			1	0	1	99	2	≤8.5	11.75
			1	99	1	0	2	≤0	21.96
		16QAM	100	0	100	0	200	≤3	18.5
			1	0	1	99	2	≤8.5	11.74
			1	99	1	0	2	≤1	22.07
		64QAM	100	0	100	0	200	≤3	18.57
			1	0	1	99	2	≤8.5	11.59
			1	99	1	0	2	≤1	20.39
		256QAM	100	0	100	0	200	≤3	18.03
			1	0	1	99	2	≤8.5	11.57
			1	99	1	0	2	≤3	18
56442	56640	QPSK	100	0	100	0	200	≤2	18.44
			1	0	1	99	2	≤8.5	2.95
			1	99	1	0	2	≤0	21.9
		16QAM	100	0	100	0	200	≤3	18.44
			1	0	1	99	2	≤8.5	11.72
			1	99	1	0	2	≤1	22.05
		64QAM	100	0	100	0	200	≤3	18.55
			1	0	1	99	2	≤8.5	11.57
			1	99	1	0	2	≤1	20.33
		256QAM	100	0	100	0	200	≤3	18.02
			1	0	1	99	2	≤8.5	11.56
			1	99	1	0	2	≤3	18.01

CA_48C									
Combination 20MHz+15MHz (100RB+75RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
55340	55511	QPSK	100	0	75	0	175	≤2	11.7
		QPSK	1	0	1	74	2	≤8.5	2.93
		QPSK	1	99	1	0	2	≤0	16.44
		16QAM	100	0	75	0	175	≤3	11.65
		16QAM	1	0	1	74	2	≤8.5	4.72
		16QAM	1	99	1	0	2	≤1	16.25
		64QAM	100	0	75	0	175	≤3	11.67
		64QAM	1	0	1	74	2	≤8.5	4.69
		64QAM	1	99	1	0	2	≤1	16.33
		256QAM	100	0	75	0	175	≤3	11.62
		256QAM	1	0	1	74	2	≤8.5	4.64
		256QAM	1	99	1	0	2	≤3	16.29
55916	56087	QPSK	100	0	75	0	175	≤2	18.02
		QPSK	1	0	1	74	2	≤8.5	11.2
		QPSK	1	99	1	0	2	≤0	21.41
		16QAM	100	0	75	0	175	≤3	18.03
		16QAM	1	0	1	74	2	≤8.5	11.22
		16QAM	1	99	1	0	2	≤1	21.40
		64QAM	100	0	75	0	175	≤3	18.11
		64QAM	1	0	1	74	2	≤8.5	11.09
		64QAM	1	99	1	0	2	≤1	21.39
		256QAM	100	0	75	0	175	≤3	18.06
		256QAM	1	0	1	74	2	≤8.5	11.08
		256QAM	1	99	1	0	2	≤3	21.38
56491	56662	QPSK	100	0	75	0	175	≤2	17.96
		QPSK	1	0	1	74	2	≤8.5	11.13
		QPSK	1	99	1	0	2	≤0	21.34
		16QAM	100	0	75	0	175	≤3	17.99
		16QAM	1	0	1	74	2	≤8.5	11.18
		16QAM	1	99	1	0	2	≤1	21.34
		64QAM	100	0	75	0	175	≤3	18.08
		64QAM	1	0	1	74	2	≤8.5	11.05
		64QAM	1	99	1	0	2	≤1	21.33
		256QAM	100	0	75	0	175	≤3	17.98
		256QAM	1	0	1	74	2	≤8.5	11.03
		256QAM	1	99	1	0	2	≤3	21.34

Combination 15MHz+20MHz (75RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
55318	55489	QPSK	75	0	100	0	175	≤2	11.62
		QPSK	1	0	1	99	2	≤8.5	2.94
		QPSK	1	74	1	0	2	≤0	16.36
		16QAM	75	0	100	0	175	≤3	11.58
		16QAM	1	0	1	99	2	≤8.5	4.7
		16QAM	1	74	1	0	2	≤1	16.2
		64QAM	75	0	100	0	175	≤3	11.61
		64QAM	1	0	1	99	2	≤8.5	4.64
		64QAM	1	74	1	0	2	≤1	16.29
		256QAM	75	0	100	0	175	≤3	11.57
		256QAM	1	0	1	99	2	≤8.5	4.54
		256QAM	1	74	1	0	2	≤3	16.2
55893	56064	QPSK	75	0	100	0	175	≤2	17.92
		QPSK	1	0	1	99	2	≤8.5	11.18
		QPSK	1	74	1	0	2	≤0	21.33
		16QAM	75	0	100	0	175	≤3	18
		16QAM	1	0	1	99	2	≤8.5	11.2
		16QAM	1	74	1	0	2	≤1	21.36
		64QAM	75	0	100	0	175	≤3	18.06
		64QAM	1	0	1	99	2	≤8.5	11.02
		64QAM	1	74	1	0	2	≤1	21.34
		256QAM	75	0	100	0	175	≤3	18.01
		256QAM	1	0	1	99	2	≤8.5	11.06
		256QAM	1	74	1	0	2	≤3	21.3
56469	56640	QPSK	75	0	100	0	175	≤2	17.94
		QPSK	1	0	1	99	2	≤8.5	2.82
		QPSK	1	74	1	0	2	≤0	21.27
		16QAM	75	0	100	0	175	≤3	17.91
		16QAM	1	0	1	99	2	≤8.5	11.14
		16QAM	1	74	1	0	2	≤1	21.29
		64QAM	75	0	100	0	175	≤3	18.01
		64QAM	1	0	1	99	2	≤8.5	10.97
		64QAM	1	74	1	0	2	≤1	21.25
		256QAM	75	0	100	0	175	≤3	17.92
		256QAM	1	0	1	99	2	≤8.5	10.95
		256QAM	1	74	1	0	2	≤3	21.26

Combination 20MHz+10MHz (100RB+50RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
55340	55484	QPSK	100	0	50	0	150	≤2	11.65
		QPSK	1	0	1	49	2	≤8.5	2.99
		QPSK	1	99	1	0	2	≤0	16.37
		16QAM	100	0	50	0	150	≤3	11.56
		16QAM	1	0	1	49	2	≤8.5	4.65
		16QAM	1	99	1	0	2	≤1	16.21
		64QAM	100	0	50	0	150	≤3	11.61
		64QAM	1	0	1	49	2	≤8.5	4.6
		64QAM	1	99	1	0	2	≤1	16.31
		256QAM	100	0	50	0	150	≤3	11.59
		256QAM	1	0	1	49	2	≤8.5	4.61
		256QAM	1	99	1	0	2	≤3	16.22
55941	56085	QPSK	100	0	50	0	150	≤2	17.94
		QPSK	1	0	1	49	2	≤8.5	11.13
		QPSK	1	99	1	0	2	≤0	21.32
		16QAM	100	0	50	0	150	≤3	17.94
		16QAM	1	0	1	49	2	≤8.5	11.13
		16QAM	1	99	1	0	2	≤1	21.31
		64QAM	100	0	50	0	150	≤3	18.06
		64QAM	1	0	1	49	2	≤8.5	11.03
		64QAM	1	99	1	0	2	≤1	21.35
		256QAM	100	0	50	0	150	≤3	17.99
		256QAM	1	0	1	49	2	≤8.5	11.06
		256QAM	1	99	1	0	2	≤3	21.31
56541	56685	QPSK	100	0	50	0	150	≤2	17.86
		QPSK	1	0	1	49	2	≤8.5	11.05
		QPSK	1	99	1	0	2	≤0	21.3
		16QAM	100	0	50	0	150	≤3	17.96
		16QAM	1	0	1	49	2	≤8.5	11.12
		16QAM	1	99	1	0	2	≤1	21.24
		64QAM	100	0	50	0	150	≤3	17.98
		64QAM	1	0	1	49	2	≤8.5	11.02
		64QAM	1	99	1	0	2	≤1	21.24
		256QAM	100	0	50	0	150	≤3	17.91
		256QAM	1	0	1	49	2	≤8.5	10.98
		256QAM	1	99	1	0	2	≤3	21.24

Combination 10MHz+20MHz (50RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
55295	55439	QPSK	50	0	100	0	150	≤2	11.65
		QPSK	1	0	1	99	2	≤8.5	2.97
		QPSK	1	49	1	0	2	≤0	16.35
		16QAM	50	0	100	0	150	≤3	11.6
		16QAM	1	0	1	99	2	≤8.5	4.65
		16QAM	1	49	1	0	2	≤1	16.19
		64QAM	50	0	100	0	150	≤3	11.65
		64QAM	1	0	1	99	2	≤8.5	4.65
		64QAM	1	49	1	0	2	≤1	16.28
		256QAM	50	0	100	0	150	≤3	11.55
		256QAM	1	0	1	99	2	≤8.5	4.62
		256QAM	1	49	1	0	2	≤3	16.25
55896	56040	QPSK	50	0	100	0	150	≤2	17.98
		QPSK	1	0	1	99	2	≤8.5	11.1
		QPSK	1	49	1	0	2	≤0	21.37
		16QAM	50	0	100	0	150	≤3	17.93
		16QAM	1	0	1	99	2	≤8.5	11.16
		16QAM	1	49	1	0	2	≤1	21.36
		64QAM	50	0	100	0	150	≤3	18.05
		64QAM	1	0	1	99	2	≤8.5	11
		64QAM	1	49	1	0	2	≤1	21.35
		256QAM	50	0	100	0	150	≤3	18.04
		256QAM	1	0	1	99	2	≤8.5	11.05
		256QAM	1	49	1	0	2	≤3	21.34
56496	56640	QPSK	50	0	100	0	150	≤2	17.89
		QPSK	1	0	1	99	2	≤8.5	11.05
		QPSK	1	49	1	0	2	≤0	21.24
		16QAM	50	0	100	0	150	≤3	17.92
		16QAM	1	0	1	99	2	≤8.5	11.08
		16QAM	1	49	1	0	2	≤1	21.32
		64QAM	50	0	100	0	150	≤3	18.04
		64QAM	1	0	1	99	2	≤8.5	11.01
		64QAM	1	49	1	0	2	≤1	21.28
		256QAM	50	0	100	0	150	≤3	17.95
		256QAM	1	0	1	99	2	≤8.5	10.93
		256QAM	1	49	1	0	2	≤3	21.29

Combination 20MHz+5MHz (100RB+25RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
55340	55457	QPSK	100	0	25	0	125	≤2	11.61
		QPSK	1	0	1	24	2	≤8.5	2.9
		QPSK	1	99	1	0	2	≤0	16.38
		16QAM	100	0	25	0	125	≤3	11.55
		16QAM	1	0	1	24	2	≤8.5	4.63
		16QAM	1	99	1	0	2	≤1	16.19
		64QAM	100	0	25	0	125	≤3	11.59
		64QAM	1	0	1	24	2	≤8.5	4.63
		64QAM	1	99	1	0	2	≤1	16.25
		256QAM	100	0	25	0	125	≤3	11.57
		256QAM	1	0	1	24	2	≤8.5	4.61
		256QAM	1	99	1	0	2	≤3	16.21
55965	56082	QPSK	100	0	25	0	125	≤2	17.98
		QPSK	1	0	1	24	2	≤8.5	11.18
		QPSK	1	99	1	0	2	≤0	21.36
		16QAM	100	0	25	0	125	≤3	17.97
		16QAM	1	0	1	24	2	≤8.5	11.16
		16QAM	1	99	1	0	2	≤1	21.35
		64QAM	100	0	25	0	125	≤3	18.04
		64QAM	1	0	1	24	2	≤8.5	11.04
		64QAM	1	99	1	0	2	≤1	21.31
		256QAM	100	0	25	0	125	≤3	17.96
		256QAM	1	0	1	24	2	≤8.5	10.99
		256QAM	1	99	1	0	2	≤3	21.29
56590	56707	QPSK	100	0	25	0	125	≤2	17.89
		QPSK	1	0	1	24	2	≤8.5	11.11
		QPSK	1	99	1	0	2	≤0	21.25
		16QAM	100	0	25	0	125	≤3	17.95
		16QAM	1	0	1	24	2	≤8.5	11.1
		16QAM	1	99	1	0	2	≤1	21.24
		64QAM	100	0	25	0	125	≤3	18.02
		64QAM	1	0	1	24	2	≤8.5	10.99
		64QAM	1	99	1	0	2	≤1	21.23
		256QAM	100	0	25	0	125	≤3	17.92
		256QAM	1	0	1	24	2	≤8.5	10.96
		256QAM	1	99	1	0	2	≤3	21.31

Combination 5MHz+20MHz (25RB+100RB)									
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset			
55273	55390	QPSK	25	0	100	0	125	≤2	11.66
		QPSK	1	0	1	99	2	≤8.5	4.63
		QPSK	1	24	1	0	2	≤0	16.39
		16QAM	25	0	100	0	125	≤3	11.63
		16QAM	1	0	1	99	2	≤8.5	4.62
		16QAM	1	24	1	0	2	≤1	16.22
		64QAM	25	0	100	0	125	≤3	11.65
		64QAM	1	0	1	99	2	≤8.5	4.59
		64QAM	1	24	1	0	2	≤1	16.26
		256QAM	25	0	100	0	125	≤3	11.6
		256QAM	1	0	1	99	2	≤8.5	4.62
		256QAM	1	24	1	0	2	≤3	16.26
55898	56015	QPSK	25	0	100	0	125	≤2	17.97
		QPSK	1	0	1	99	2	≤8.5	11.12
		QPSK	1	24	1	0	2	≤0	21.37
		16QAM	25	0	100	0	125	≤3	18
		16QAM	1	0	1	99	2	≤8.5	11.19
		16QAM	1	24	1	0	2	≤1	21.36
		64QAM	25	0	100	0	125	≤3	18.05
		64QAM	1	0	1	99	2	≤8.5	11.01
		64QAM	1	24	1	0	2	≤1	21.29
		256QAM	25	0	100	0	125	≤3	17.99
		256QAM	1	0	1	99	2	≤8.5	11
		256QAM	1	24	1	0	2	≤3	21.34
56523	56640	QPSK	25	0	100	0	125	≤2	17.93
		QPSK	1	0	1	99	2	≤8.5	11.07
		QPSK	1	24	1	0	2	≤0	21.32
		16QAM	25	0	100	0	125	≤3	17.89
		16QAM	1	0	1	99	2	≤8.5	11.15
		16QAM	1	24	1	0	2	≤1	21.26
		64QAM	25	0	100	0	125	≤3	18.05
		64QAM	1	0	1	99	2	≤8.5	10.99
		64QAM	1	24	1	0	2	≤1	21.28
		256QAM	25	0	100	0	125	≤3	17.89
		256QAM	1	0	1	99	2	≤8.5	10.98
		256QAM	1	24	1	0	2	≤3	21.29

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 = -2.0 dB) QPSK									
Bandwidth	**5M**			**10M**			**15M**		
Channel	**(Low)**	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**	**(Low)**	**(Mid)**	**(High)**
Conducted Power (dBm/10MHz)	23.89	23.81	23.98	23.85	23.82	23.98	23.83	23.81	24.00
Conducted Power (Watts/10MHz)	0.2449	0.2404	0.2500	0.2427	0.2410	0.2500	0.2415	0.2404	0.2512
EIRP (dBm/10MHz)	21.89	21.81	21.98	21.85	21.82	21.98	21.83	21.81	22.00
EIRP (Watts/10MHz)	0.1545	0.1517	0.1578	0.1531	0.1521	0.1578	0.1524	0.1517	0.1585

LTE Band 48 (GT - LC = -2.0 dB) QPSK			
Bandwidth	**20M**		
Channel	**(Low)**	**(Mid)**	**(High)**
Conducted Power (dBm/10MHz)	23.96	23.91	24.07
Conducted Power (Watts/10MHz)	0.2489	0.2460	0.2553
EIRP (dBm/10MHz)	21.96	21.91	22.07
EIRP (Watts/10MHz)	0.1570	0.1552	0.1611

LTE Band 48 (GT - LC = -2.0 dB) 16QAM									
Bandwidth	5M			10M			15M		
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm/10MHz)	22.99	22.96	22.93	22.93	22.88	22.83	23.01	22.95	22.83
Conducted Power (Watts/10MHz)	0.1991	0.1977	0.1963	0.1963	0.1941	0.1919	0.2000	0.1972	0.1919
EIRP (dBm/10MHz)	20.99	20.96	20.93	20.93	20.88	20.83	21.01	20.95	20.83
EIRP (Watts/10MHz)	0.1256	0.1247	0.1239	0.1239	0.1225	0.1211	0.1262	0.1245	0.1211

LTE Band 48 (GT - LC = -2.0 dB) 16QAM			
Bandwidth	20M		
Channel	(Low)	(Mid)	(High)
Conducted Power (dBm/10MHz)	23.06	22.96	22.99
Conducted Power (Watts/10MHz)	0.2023	0.1977	0.1991
EIRP (dBm/10MHz)	21.06	20.96	20.99
EIRP (Watts/10MHz)	0.1276	0.1247	0.1256

LTE Band 48 (GT - LC = -2.0 dB) 64QAM									
Bandwidth	5M			10M			15M		
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm/10MHz)	21.91	21.84	21.88	21.89	21.80	21.93	21.91	21.90	21.84
Conducted Power (Watts/10MHz)	0.1552	0.1528	0.1542	0.1545	0.1514	0.1560	0.1552	0.1549	0.1528
EIRP (dBm/10MHz)	19.91	19.84	19.88	19.89	19.80	19.93	19.91	19.90	19.84
EIRP (Watts/10MHz)	0.0979	0.0964	0.0973	0.0975	0.0955	0.0984	0.0979	0.0977	0.0964

LTE Band 48 (GT - LC = -2.0 dB) 64QAM			
Bandwidth	20M		
Channel	(Low)	(Mid)	(High)
Conducted Power (dBm/10MHz)	21.98	21.96	21.99
Conducted Power (Watts/10MHz)	0.1578	0.1570	0.1581
EIRP (dBm/10MHz)	19.98	19.96	19.99
EIRP (Watts/10MHz)	0.0995	0.0991	0.0998

LTE Band 48 (GT - LC = -2.0 dB) 256QAM									
Bandwidth	5M			10M			15M		
Channel	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm/10MHz)	18.69	19.04	18.67	18.71	18.99	18.74	18.70	19.07	18.77
Conducted Power (Watts/10MHz)	0.0740	0.0802	0.0736	0.0743	0.0793	0.0748	0.0741	0.0807	0.0753
EIRP (dBm/10MHz)	16.69	17.04	16.67	16.71	16.99	16.74	16.70	17.07	16.77
EIRP (Watts/10MHz)	0.0467	0.0506	0.0465	0.0469	0.0500	0.0472	0.0468	0.0509	0.0475

LTE Band 48 (GT - LC = -2.0 dB) 256QAM			
Bandwidth	20M		
Channel	(Low)	(Mid)	(High)
Conducted Power (dBm/10MHz)	18.76	19.09	18.75
Conducted Power (Watts/10MHz)	0.0752	0.0811	0.0750
EIRP (dBm/10MHz)	16.76	17.09	16.75
EIRP (Watts/10MHz)	0.0474	0.0512	0.0473

LTE Band 48 CA (GT - LC = -2.0 dB) QPSK									
Bandwidth	5MHz+20MHz			10MHz+20MHz			15MHz+20MHz		
Channel PCC	55273	55898	56523	55295	55896	56496	55318	55893	56469
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	55390	56015	56640	55439	56040	56640	55489	56064	56640
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	16.39	21.37	21.32	16.35	21.37	21.24	16.36	21.33	21.27
Conducted Power (Watts)	0.0436	0.1371	0.1355	0.0432	0.1371	0.1330	0.0433	0.1358	0.1340
EIRP(dBm)	14.39	19.37	19.32	14.35	19.37	19.24	14.36	19.33	19.27
EIRP(Watts)	0.0275	0.0865	0.0855	0.0272	0.0865	0.0839	0.0273	0.0857	0.0845

LTE Band 48 CA (GT - LC = -2.0 dB) QPSK						
Bandwidth	20MHz+5MHz			20MHz+10MHz		
Channel PCC	55340	55965	56590	55340	55941	56541
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	55457	56082	56707	55484	56085	56685
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	16.38	21.36	21.25	16.37	21.32	21.30
Conducted Power (Watts)	0.0435	0.1368	0.1334	0.0434	0.1355	0.1349
EIRP(dBm)	14.38	19.36	19.25	14.37	19.32	19.30
EIRP(Watts)	0.0274	0.0863	0.0841	0.0274	0.0855	0.0851

LTE Band 48 CA (GT - LC = -2.0 dB) QPSK						
Bandwidth	20MHz+15MHz			20MHz+20MHz		
Channel PCC	55340	55916	56491	55340	55891	56442
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	55511	56087	56662	55538	56089	56640
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	16.44	21.41	21.34	18.22	21.96	21.90
Conducted Power (Watts)	0.0441	0.1384	0.1361	0.0664	0.1570	0.1549
EIRP(dBm)	14.44	19.41	19.34	16.22	19.96	19.90
EIRP(Watts)	0.0278	0.0873	0.0859	0.0419	0.0991	0.0977

LTE Band 48 CA (GT - LC = -2.0 dB) 16QAM									
Bandwidth	5MHz+20MHz			10MHz+20MHz			15MHz+20MHz		
Channel PCC	55273	55898	56523	55295	55896	56496	55318	55893	56469
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	55390	56015	56640	55439	56040	56640	55489	56064	56640
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	16.22	21.36	21.26	16.19	21.36	21.32	16.20	21.36	21.29
Conducted Power (Watts)	0.0419	0.1368	0.1337	0.0416	0.1368	0.1355	0.0417	0.1368	0.1346
EIRP(dBm)	14.22	19.36	19.26	14.19	19.36	19.32	14.20	19.36	19.29
EIRP(Watts)	0.0264	0.0863	0.0843	0.0262	0.0863	0.0855	0.0263	0.0863	0.0849

LTE Band 48 CA (GT - LC = -2.0 dB) 16QAM						
Bandwidth	20MHz+5MHz			20MHz+10MHz		
Channel PCC	55340	55965	56590	55340	55941	56541
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	55457	56082	56707	55484	56085	56685
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	16.19	21.35	21.24	16.21	21.31	21.24
Conducted Power (Watts)	0.0416	0.1365	0.1330	0.0418	0.1352	0.1330
EIRP(dBm)	14.19	19.35	19.24	14.21	19.31	19.24
EIRP(Watts)	0.0262	0.0861	0.0839	0.0264	0.0853	0.0839

LTE Band 48 CA (GT - LC = -2.0 dB) 16QAM						
Bandwidth	20MHz+15MHz			20MHz+20MHz		
Channel PCC	55340	55916	56491	55340	55891	56442
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	55511	56087	56662	55538	56089	56640
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	16.25	21.40	21.34	18.26	22.07	22.05
Conducted Power (Watts)	0.0422	0.1380	0.1361	0.0670	0.1611	0.1603
EIRP(dBm)	14.25	19.40	19.34	16.26	20.07	20.05
EIRP(Watts)	0.0266	0.0871	0.0859	0.0423	0.1016	0.1012

LTE Band 48 CA (GT - LC = -2.0 dB) 64QAM									
Bandwidth	5MHz+20MHz			10MHz+20MHz			15MHz+20MHz		
Channel PCC	55273	55898	56523	55295	55896	56496	55318	55893	56469
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	55390	56015	56640	55439	56040	56640	55489	56064	56640
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	16.26	21.29	21.28	16.28	21.35	21.28	16.29	21.34	21.25
Conducted Power (Watts)	0.0423	0.1346	0.1343	0.0425	0.1365	0.1343	0.0426	0.1361	0.1334
EIRP(dBm)	14.26	19.29	19.28	14.28	19.35	19.28	14.29	19.34	19.25
EIRP(Watts)	0.0267	0.0849	0.0847	0.0268	0.0861	0.0847	0.0269	0.0859	0.0841

LTE Band 48 CA (GT - LC = -2.0 dB) 64QAM						
Bandwidth	20MHz+5MHz			20MHz+10MHz		
Channel PCC	55340	55965	56590	55340	55941	56541
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	55457	56082	56707	55484	56085	56685
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	16.25	21.31	21.23	16.31	21.35	21.24
Conducted Power (Watts)	0.0422	0.1352	0.1327	0.0428	0.1365	0.1330
EIRP(dBm)	14.25	19.31	19.23	14.31	19.35	19.24
EIRP(Watts)	0.0266	0.0853	0.0838	0.0270	0.0861	0.0839

LTE Band 48 CA (GT - LC = -2.0 dB) 64QAM						
Bandwidth	20MHz+15MHz			20MHz+20MHz		
Channel PCC	55340	55916	56491	55340	55891	56442
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	55511	56087	56662	55538	56089	56640
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	16.33	21.39	21.33	18.23	20.39	20.33
Conducted Power (Watts)	0.0430	0.1377	0.1358	0.0665	0.1094	0.1079
EIRP(dBm)	14.33	19.39	19.33	16.23	18.39	18.33
EIRP(Watts)	0.0271	0.0869	0.0857	0.0420	0.0690	0.0681

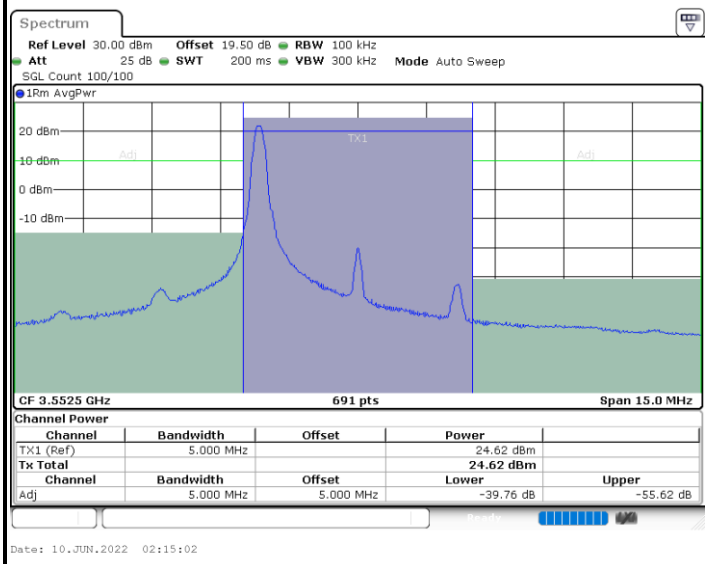
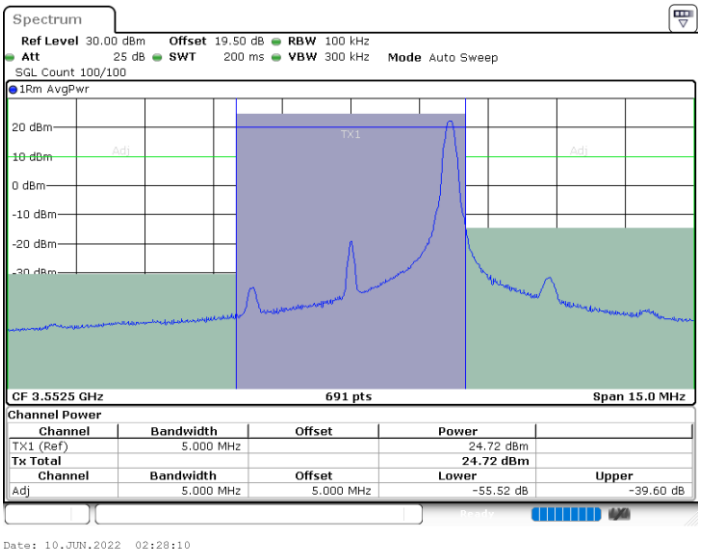
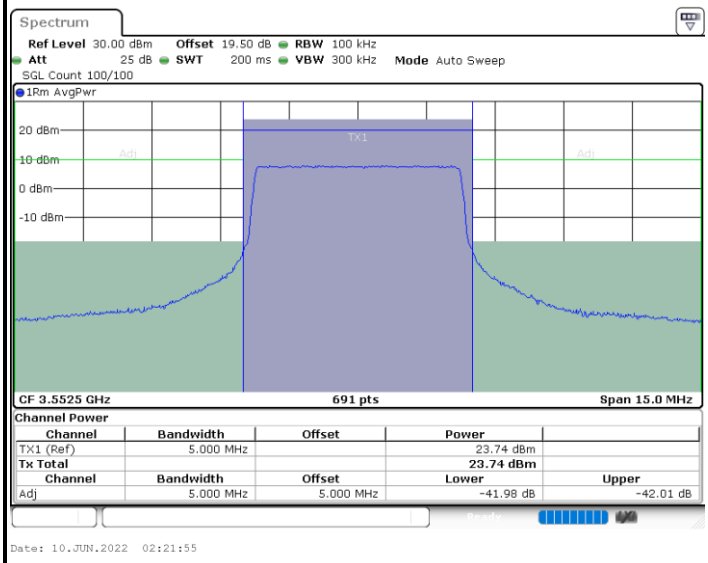
LTE Band 48 CA (GT - LC = -2.0 dB) 256QAM									
Bandwidth	5MHz+20MHz			10MHz+20MHz			15MHz+20MHz		
Channel PCC	55273	55898	56523	55295	55896	56496	55318	55893	56469
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	55390	56015	56640	55439	56040	56640	55489	56064	56640
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	16.26	21.34	21.29	16.25	21.34	21.29	16.20	21.30	21.26
Conducted Power (Watts)	0.0423	0.1361	0.1346	0.0422	0.1361	0.1346	0.0417	0.1349	0.1337
EIRP(dBm)	14.26	19.34	19.29	14.25	19.34	19.29	14.20	19.30	19.26
EIRP(Watts)	0.0267	0.0859	0.0849	0.0266	0.0859	0.0849	0.0263	0.0851	0.0843

LTE Band 48 CA (GT - LC = -2.0 dB) 256QAM						
Bandwidth	20MHz+5MHz			20MHz+10MHz		
Channel PCC	55340	55965	56590	55340	55941	56541
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	55457	56082	56707	55484	56085	56685
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	16.21	21.29	21.31	16.22	21.31	21.24
Conducted Power (Watts)	0.0418	0.1346	0.1352	0.0419	0.1352	0.1330
EIRP(dBm)	14.21	19.29	19.31	14.22	19.31	19.24
EIRP(Watts)	0.0264	0.0849	0.0853	0.0264	0.0853	0.0839

LTE Band 48 CA (GT - LC = -2.0 dB) 256QAM						
Bandwidth	20MHz+15MHz			20MHz+20MHz		
Channel PCC	55340	55916	56491	55340	55891	56442
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Channel SCC	55511	56087	56662	55538	56089	56640
	(Low)	(Mid)	(High)	(Low)	(Mid)	(High)
Conducted Power (dBm)	16.29	21.38	21.34	17.78	18.03	18.02
Conducted Power (Watts)	0.0426	0.1374	0.1361	0.0600	0.0635	0.0634
EIRP(dBm)	14.29	19.38	19.34	15.78	16.03	16.02
EIRP(Watts)	0.0269	0.0867	0.0859	0.0378	0.0401	0.0400

LTE Band 48

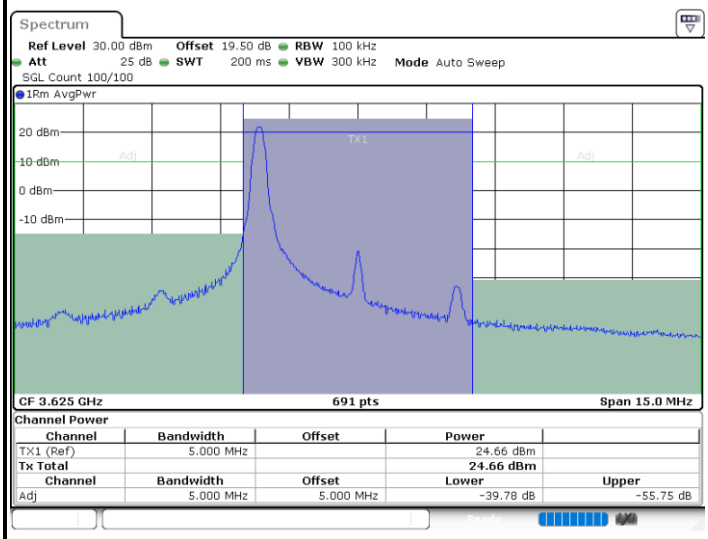
ACLR

LTE Band 48 / 5MHz	
QPSK	
Lowest Channel / 1RB0	Lowest Channel / 1RBmax
	
Lowest Channel / Full RB	N/A
	Blank

LTE Band 48 / 5MHz

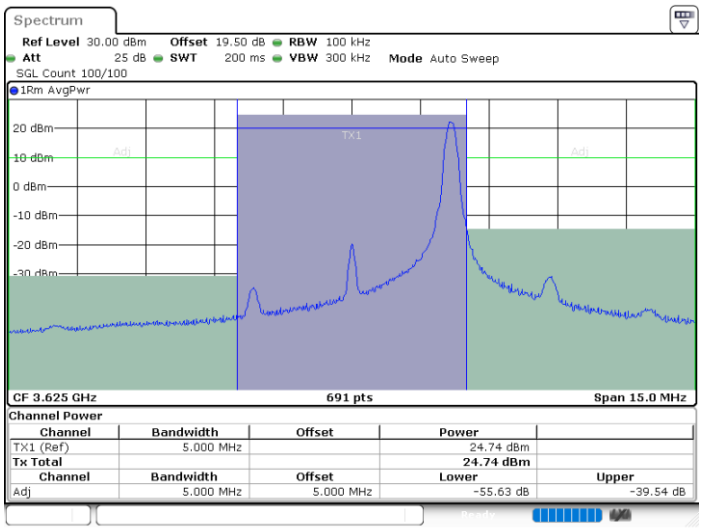
QPSK

Middle Channel / 1RB0



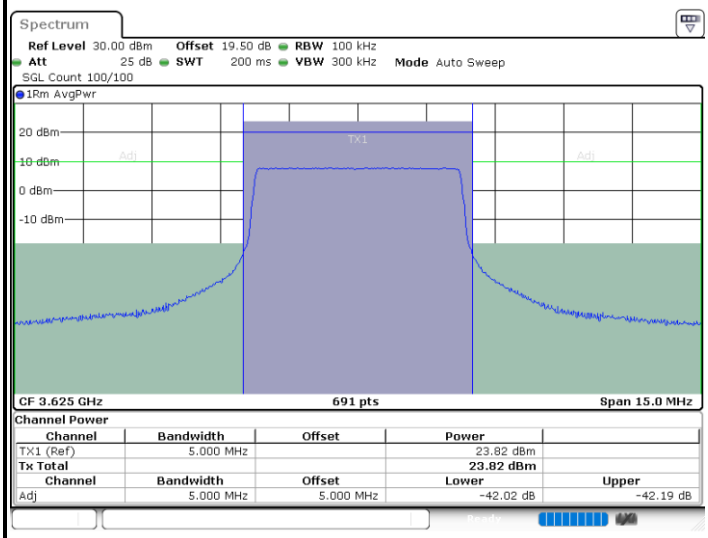
Date: 10.JUN.2022 02:18:27

Middle Channel / 1RBmax



Date: 10.JUN.2022 02:31:36

Middle Channel / Full RB



Date: 10.JUN.2022 02:25:21

N/A

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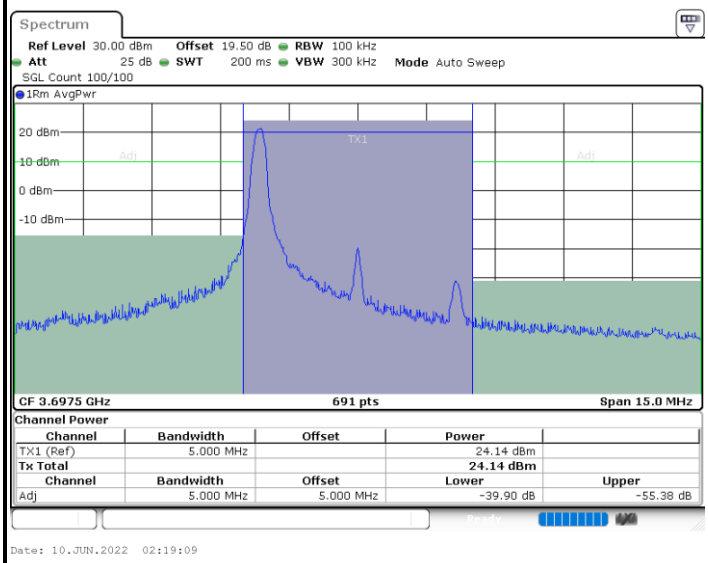
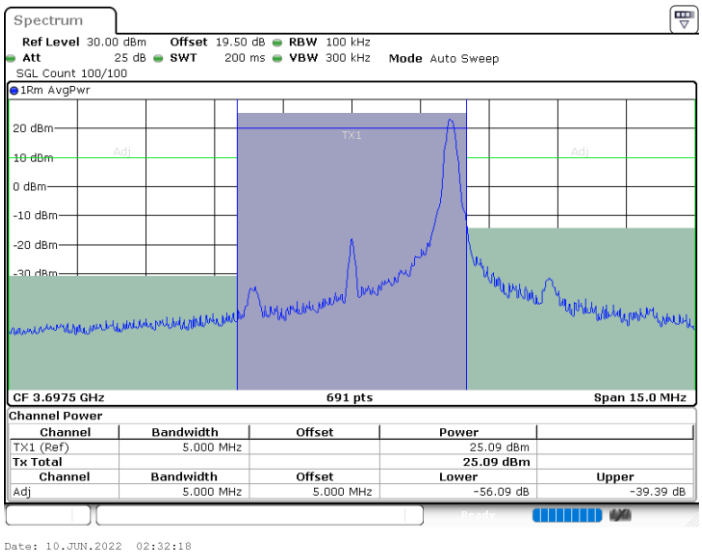
LTE Band 48 / 5MHz

QPSK

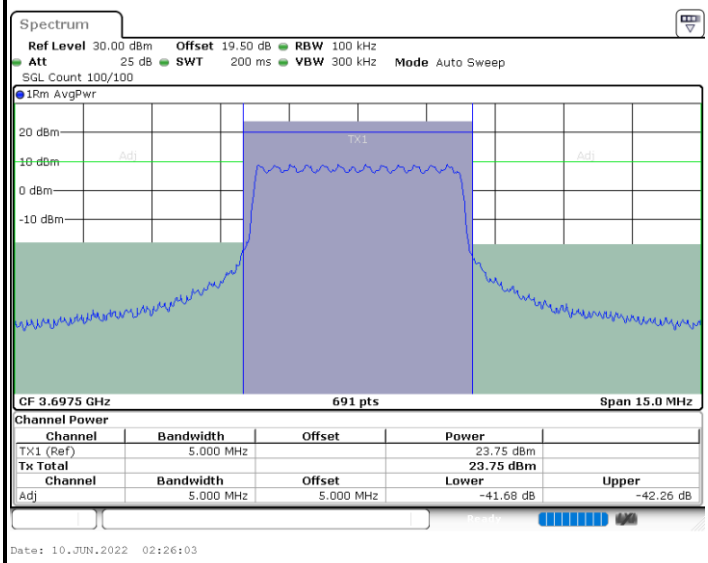
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / Full RB



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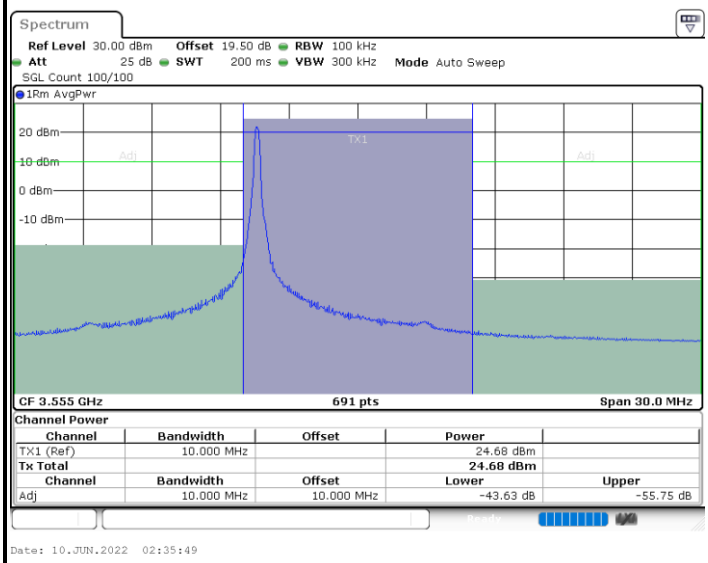
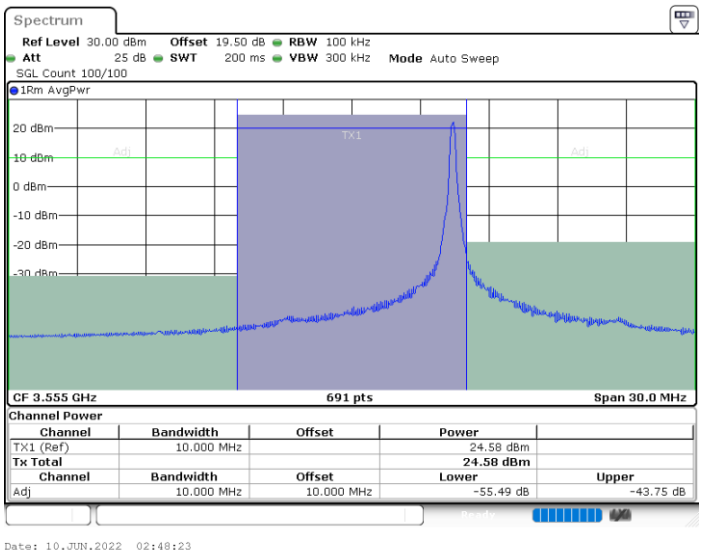
LTE Band 48 / 10MHz

QPSK

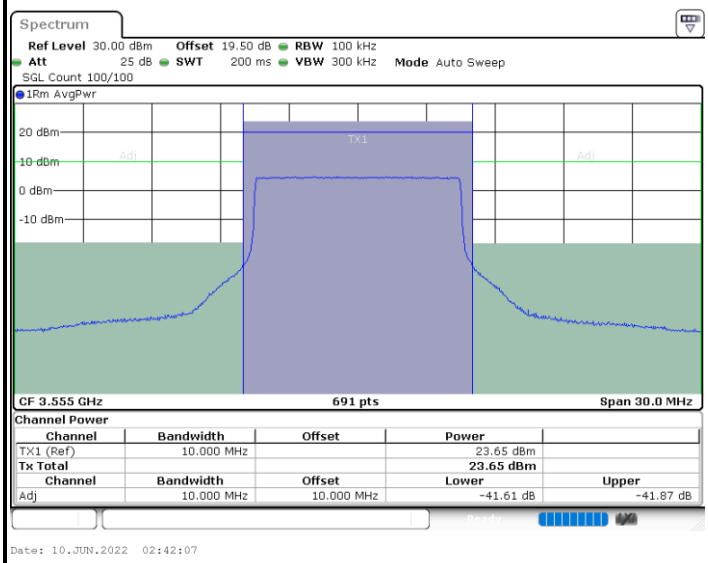
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / Full RB



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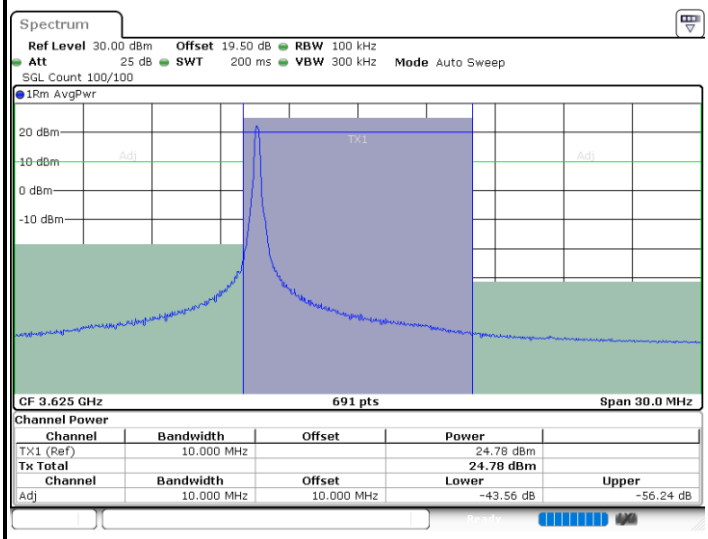
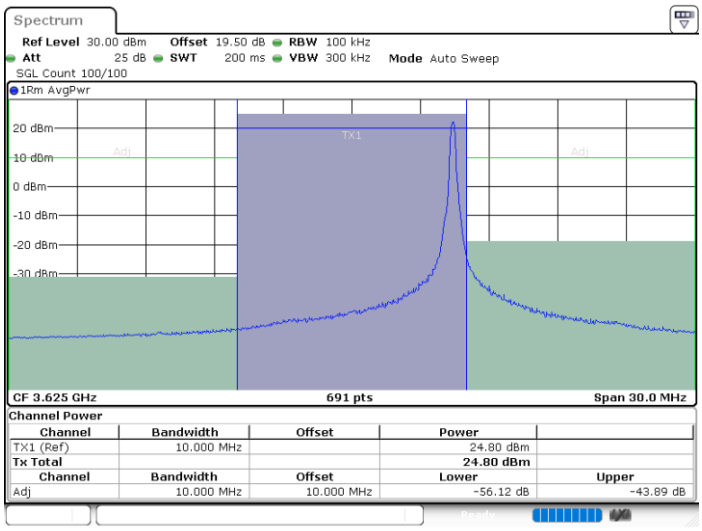
LTE Band 48 / 10MHz

QPSK

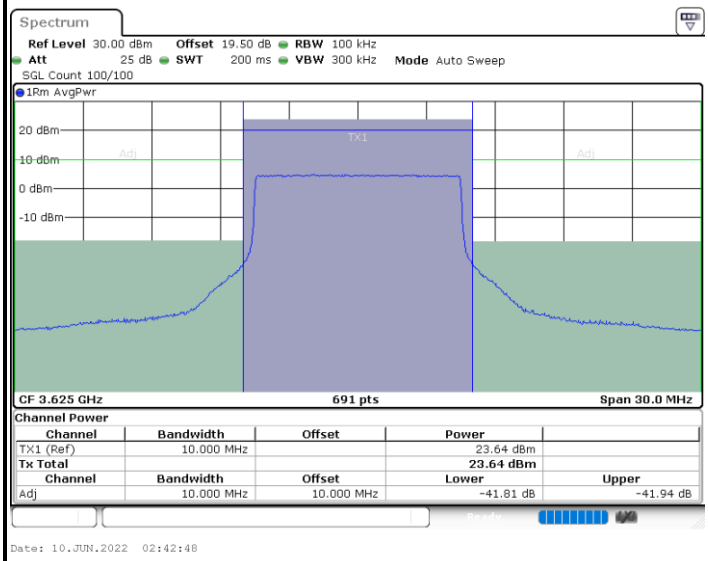
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / Full RB



N/A

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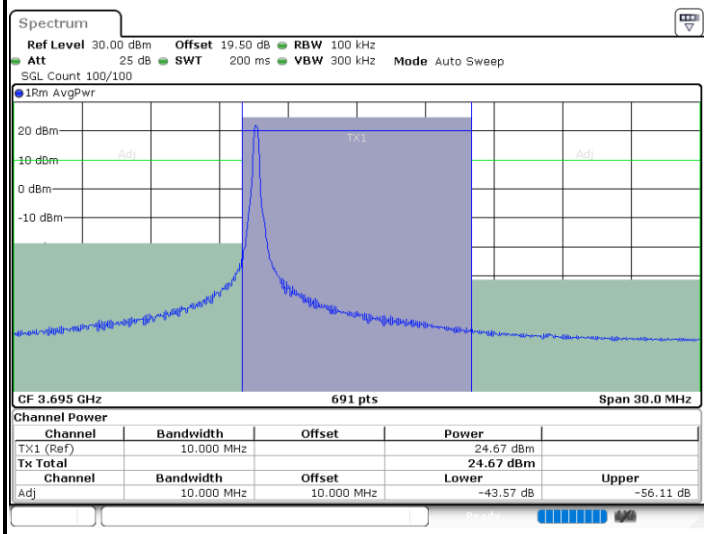
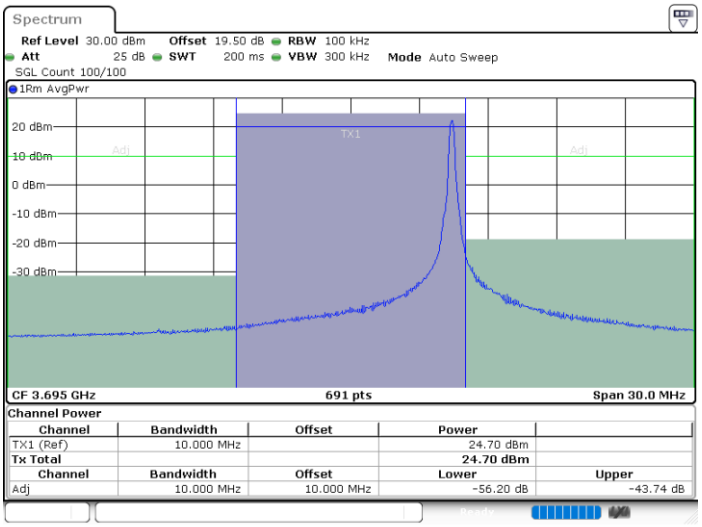
LTE Band 48 / 10MHz

QPSK

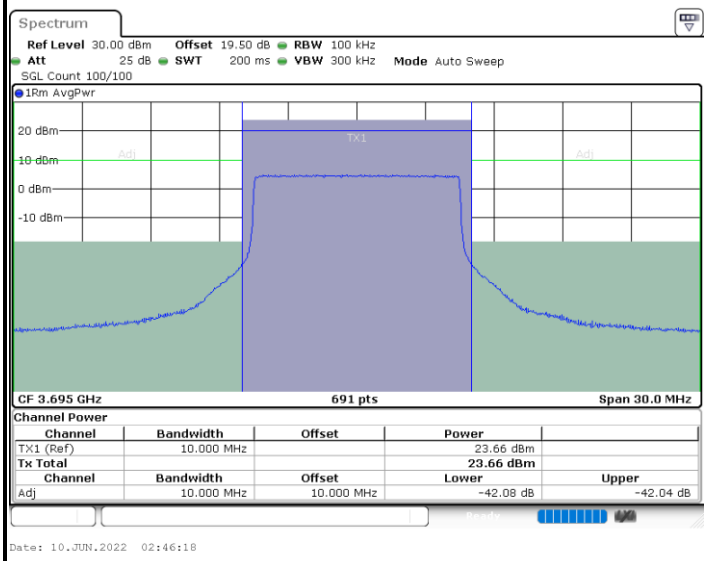
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / Full RB



N/A

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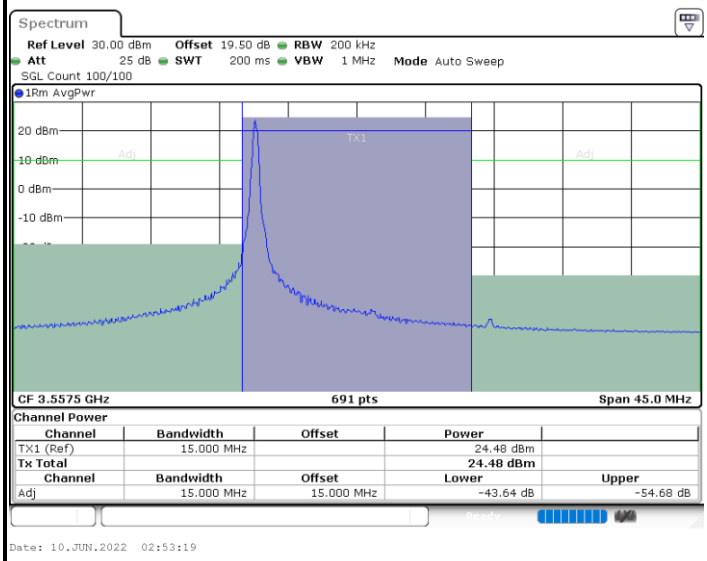
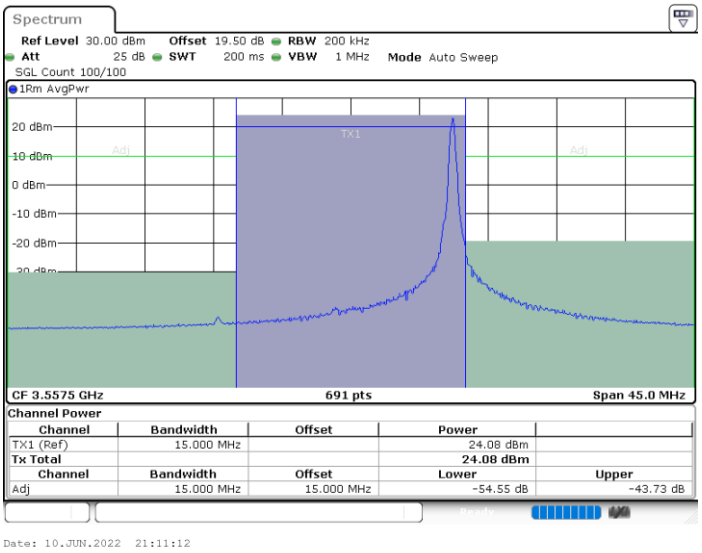
LTE Band 48 / 15MHz

QPSK

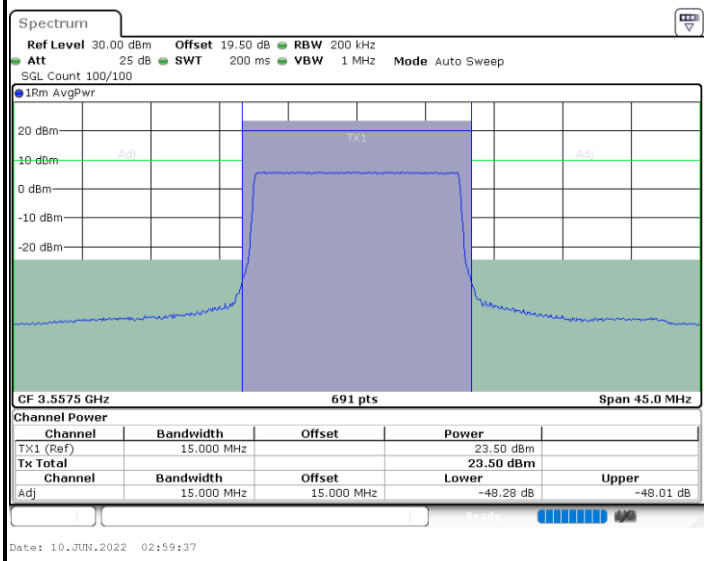
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / Full RB



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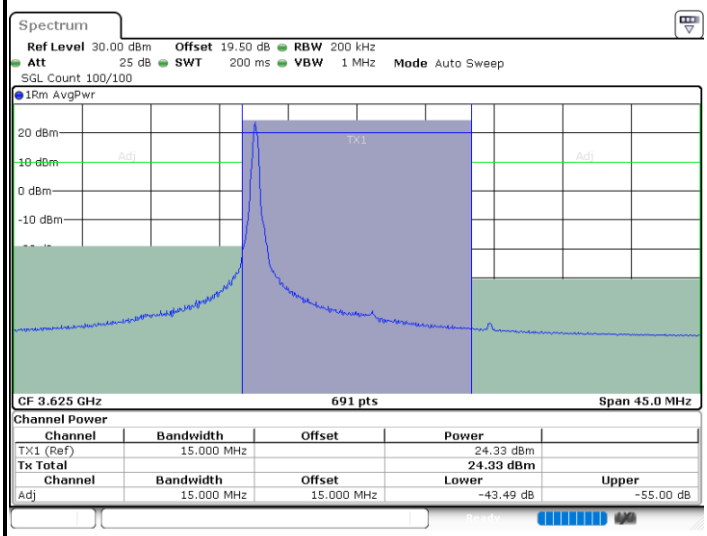
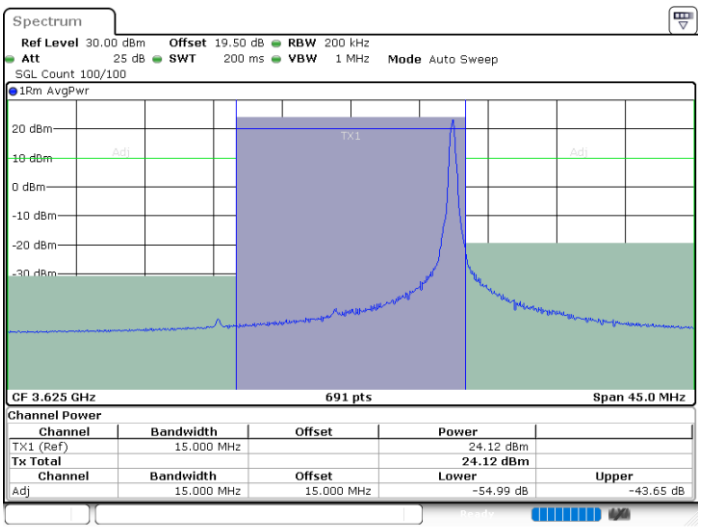
LTE Band 48 / 15MHz

QPSK

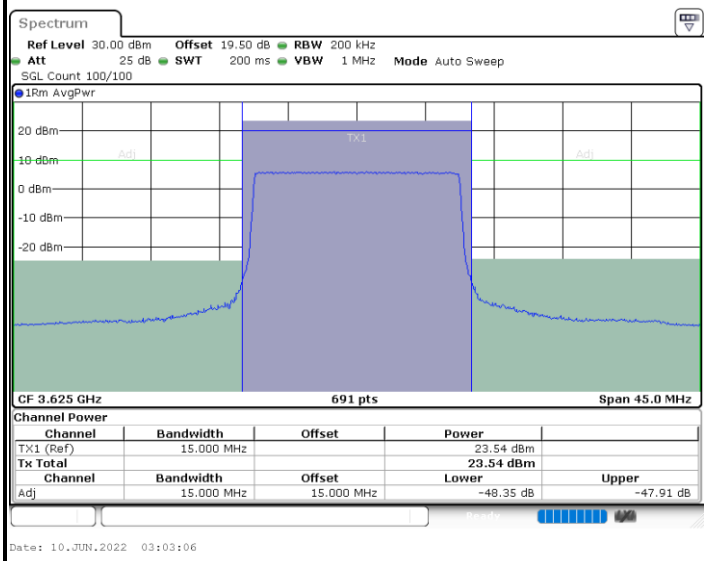
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / Full RB



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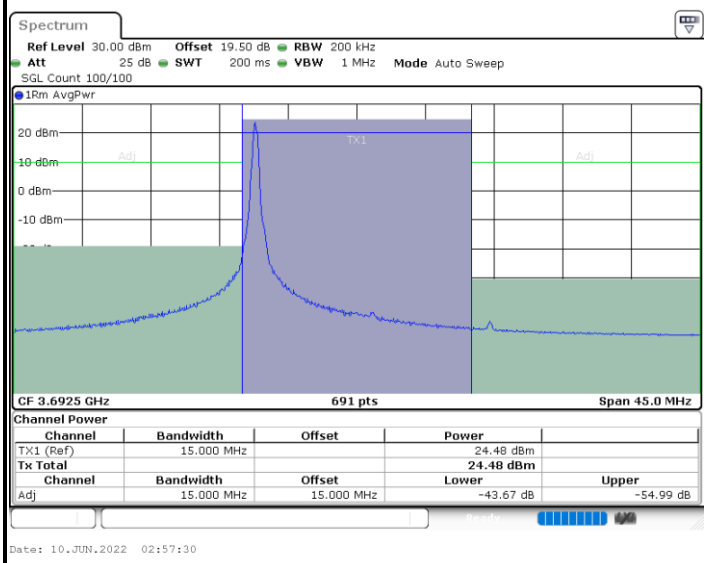
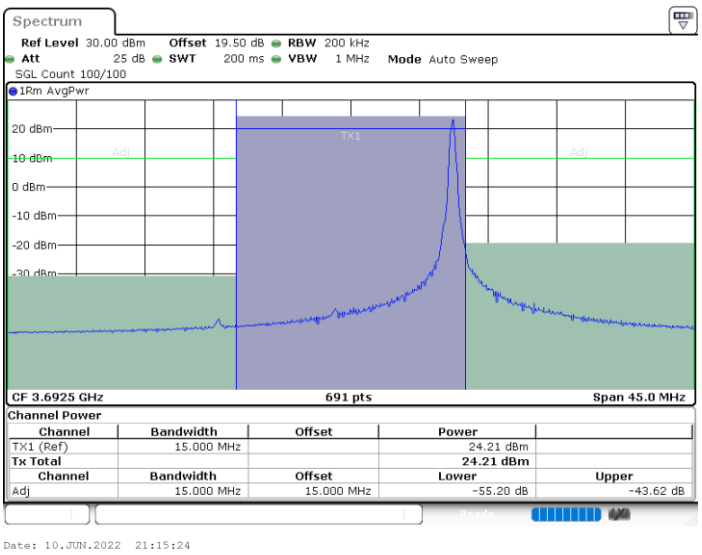
LTE Band 48 / 15MHz

QPSK

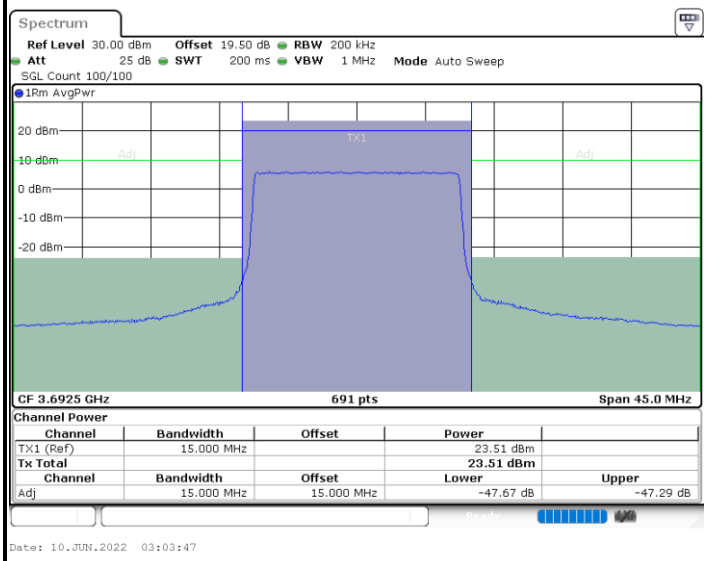
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / Full RB



N/A

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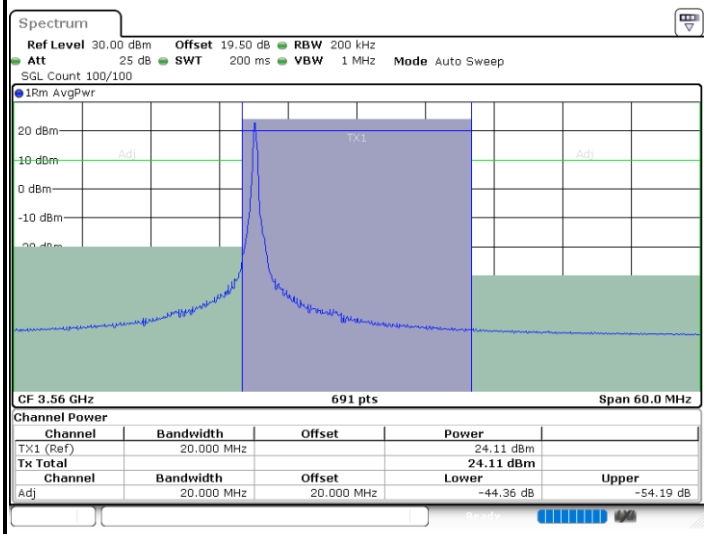
LTE Band 48 / 20MHz

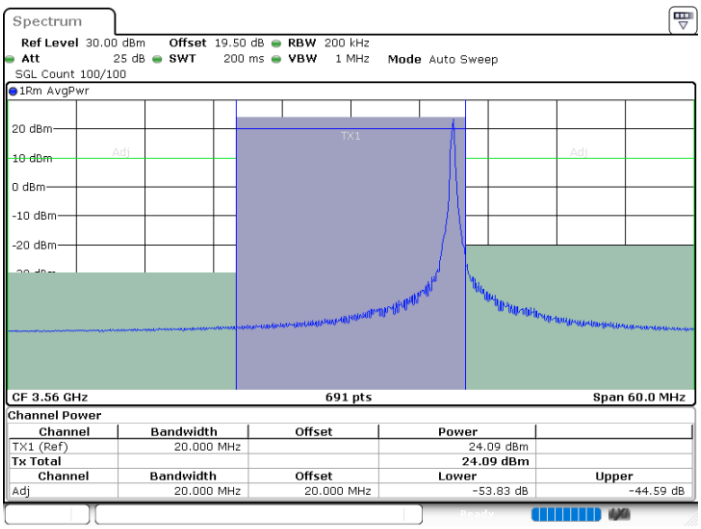
QPSK

Lowest Channel / 1RB0



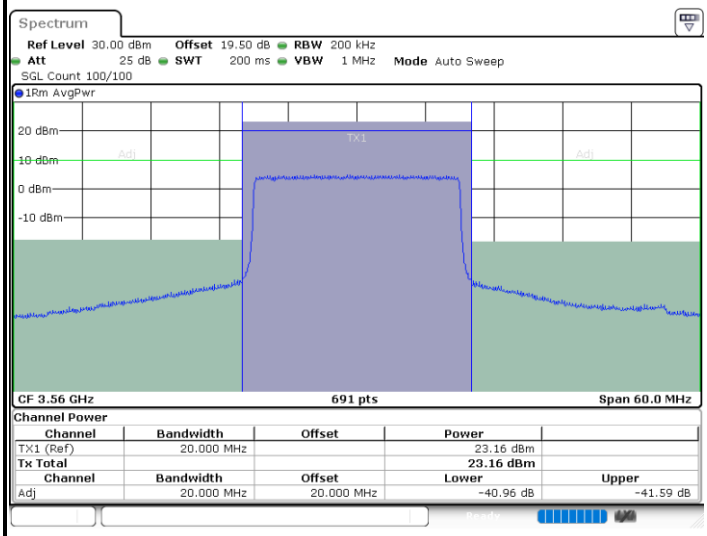
Date: 10.JUN.2022 21:25:03

Lowest Channel / 1RBmax



Date: 10.JUN.2022 21:31:13

Lowest Channel / Full RB



Date: 10.JUN.2022 21:18:54

N/A

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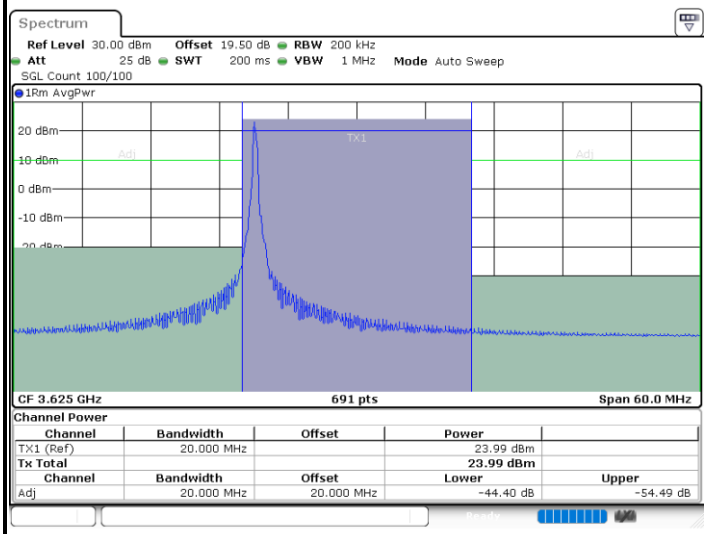
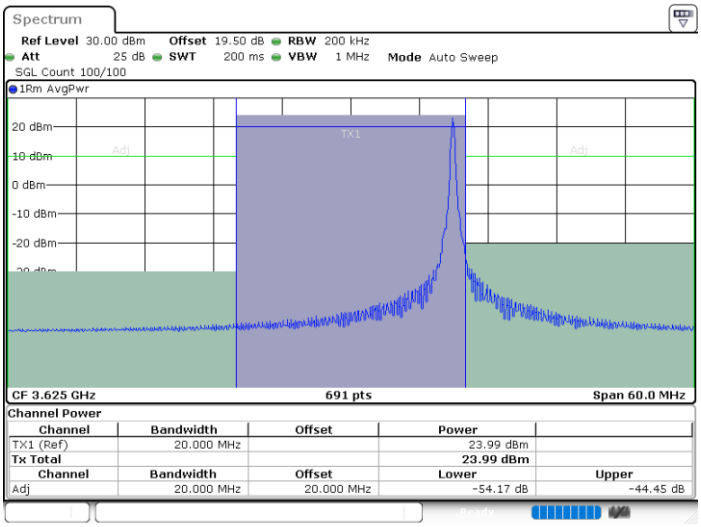
LTE Band 48 / 20MHz

QPSK

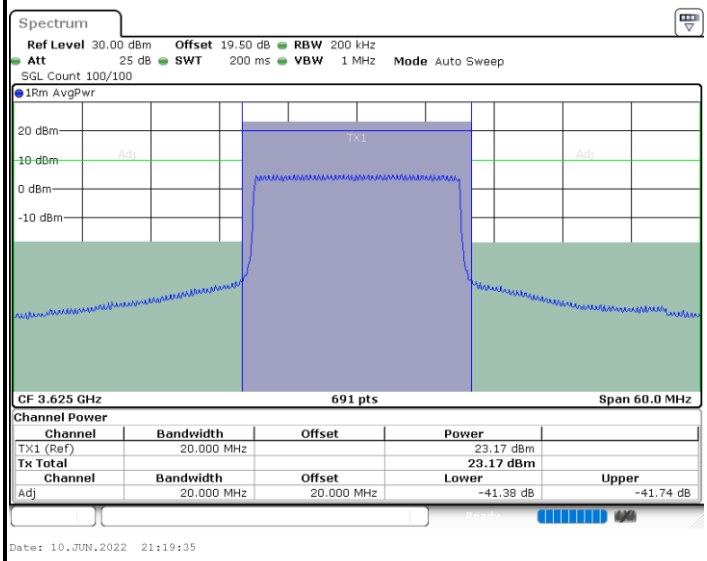
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / Full RB



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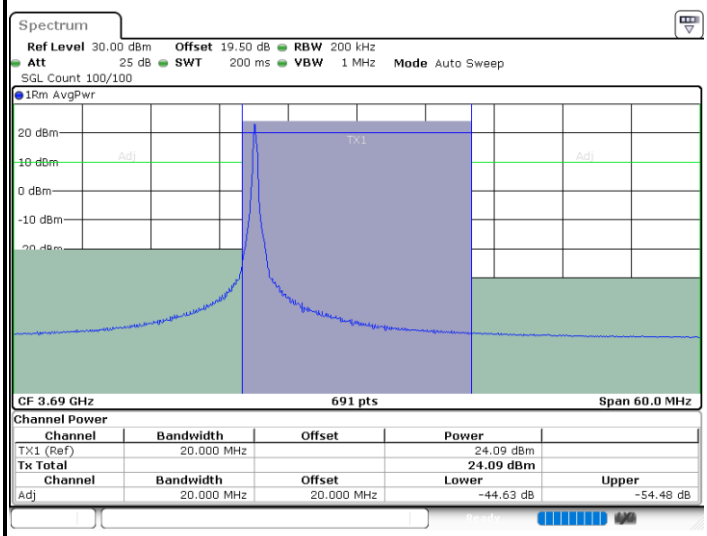
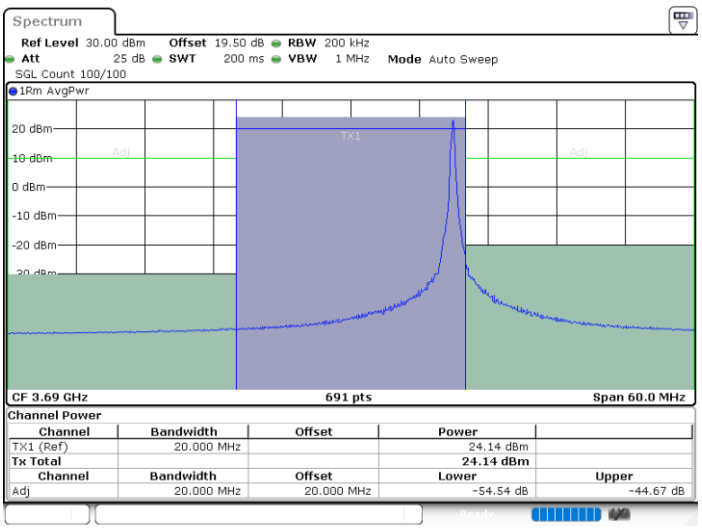
LTE Band 48 / 20MHz

QPSK

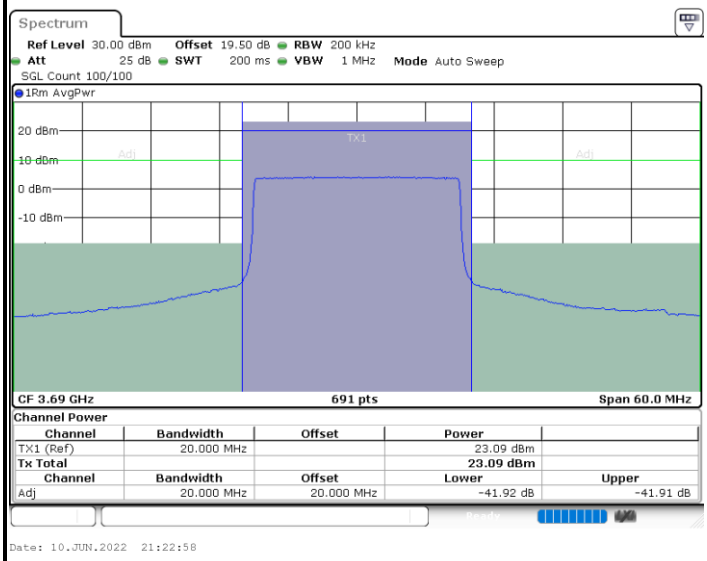
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / Full RB



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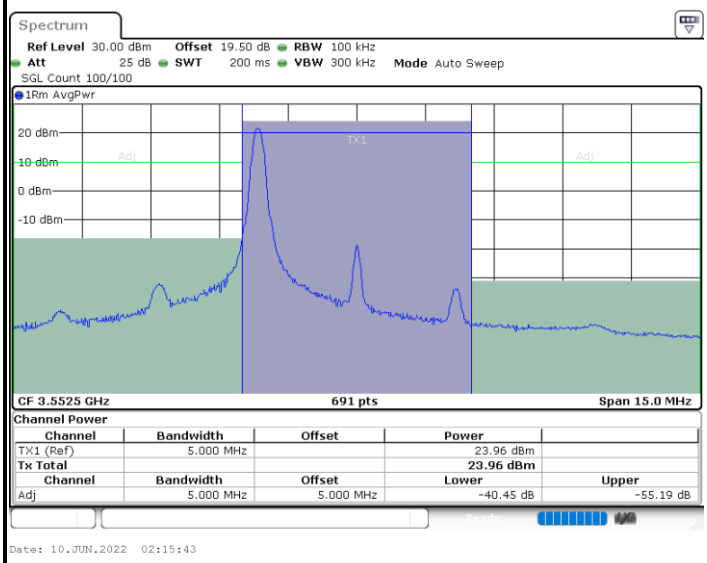
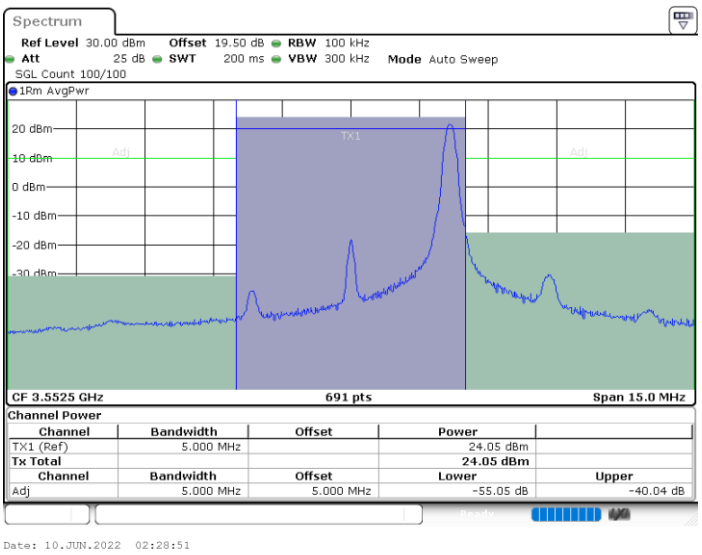
LTE Band 48 / 5MHz

16QAM

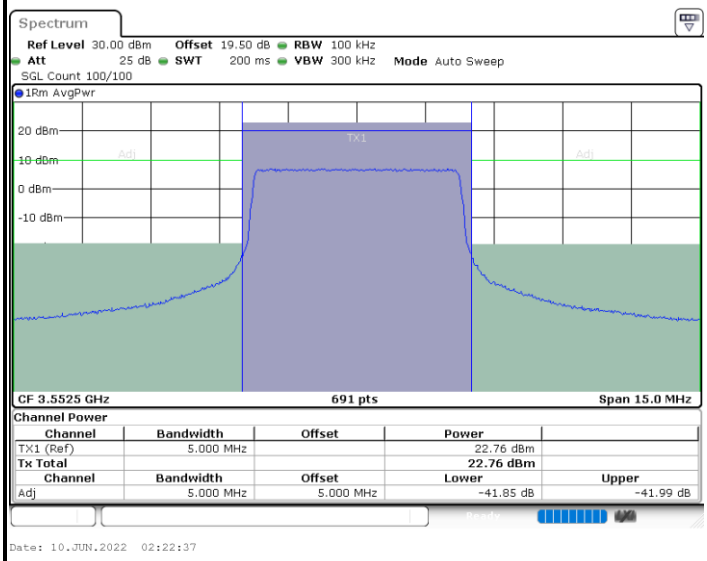
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / Full RB



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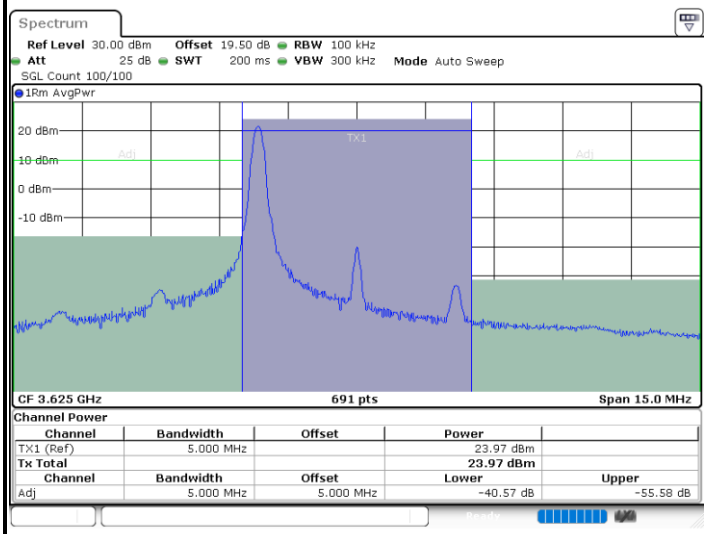
LTE Band 48 / 5MHz

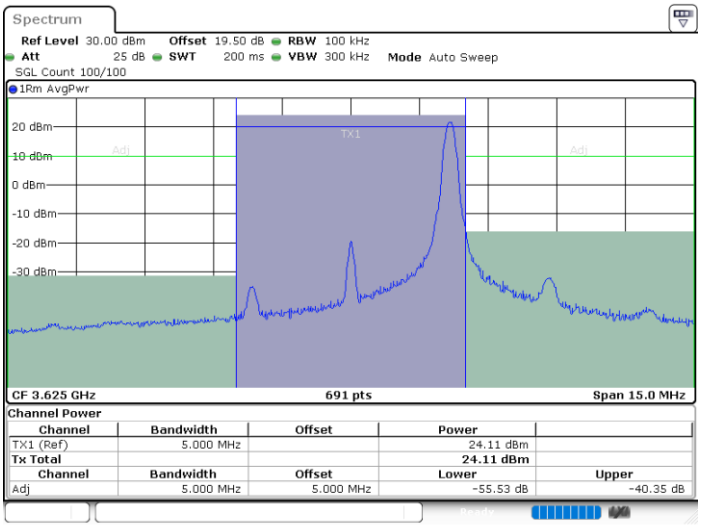
16QAM

Middle Channel / 1RB0



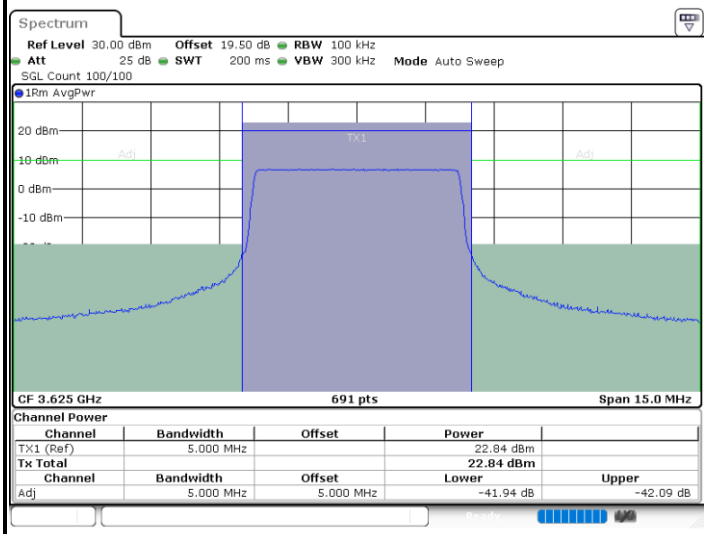
Date: 10.JUN.2022 02:17:46

Middle Channel / 1RBmax



Date: 10.JUN.2022 02:30:55

Middle Channel / Full RB



Date: 10.JUN.2022 02:24:40

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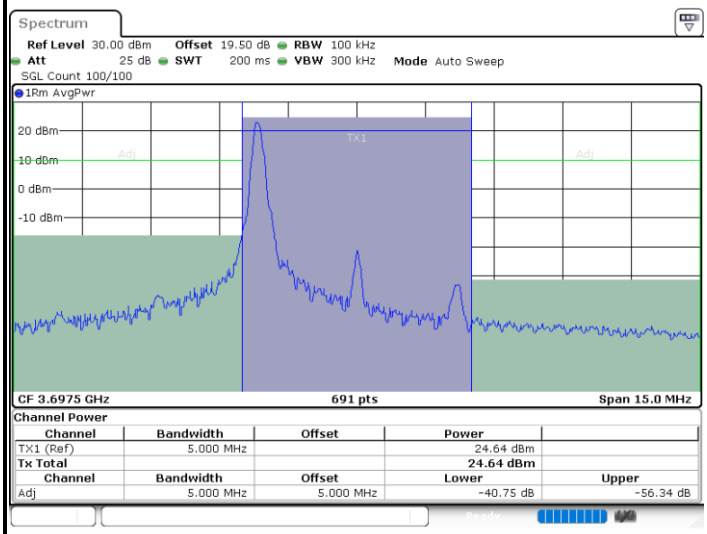
LTE Band 48 / 5MHz

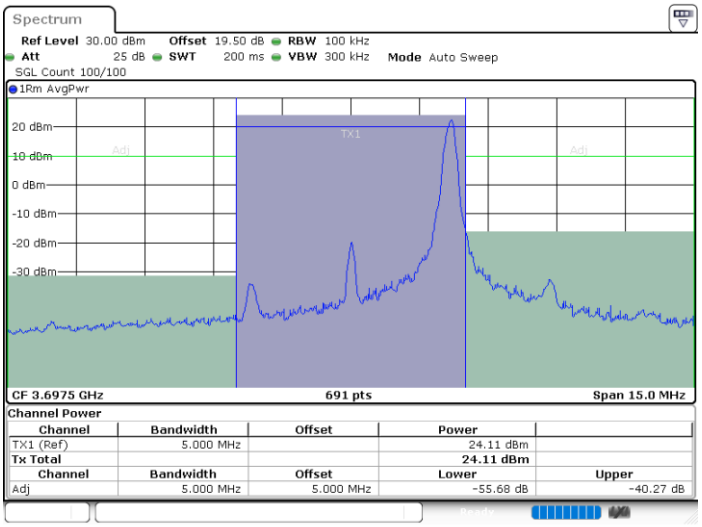
16QAM

Highest Channel / 1RB0



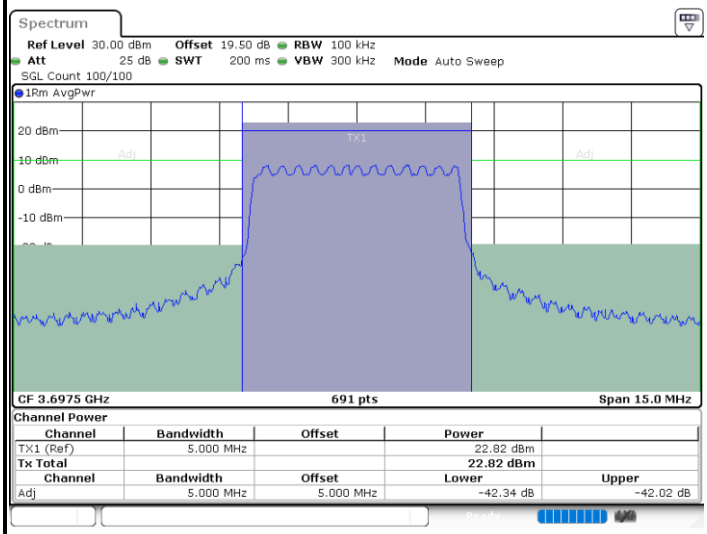
Date: 10.JUN.2022 02:20:31

Highest Channel / 1RBmax



Date: 10.JUN.2022 02:33:00

Highest Channel / Full RB



Date: 10.JUN.2022 02:26:46

N/A

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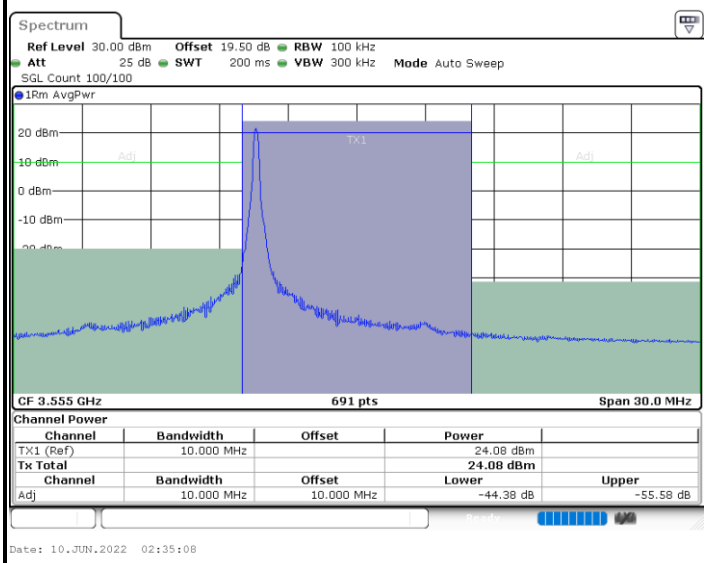
LTE Band 48 / 10MHz

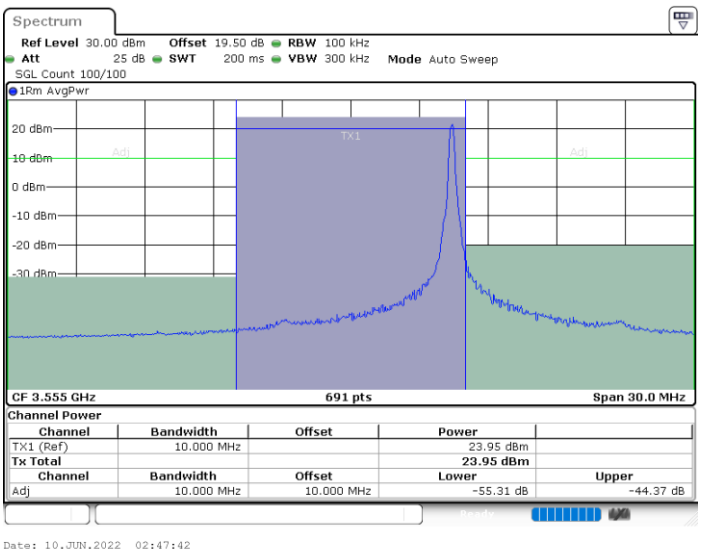
16QAM

Lowest Channel / 1RB0



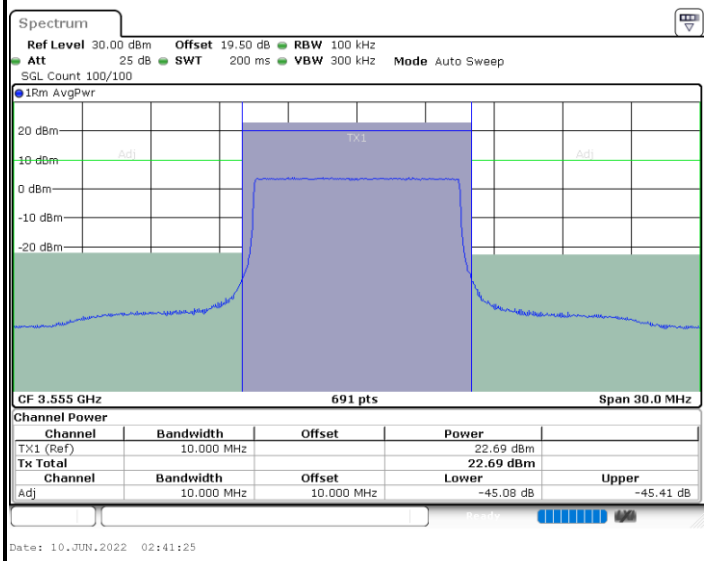
Date: 10.JUN.2022 02:35:08

Lowest Channel / 1RBmax



Date: 10.JUN.2022 02:47:42

Lowest Channel / Full RB



Date: 10.JUN.2022 02:41:25

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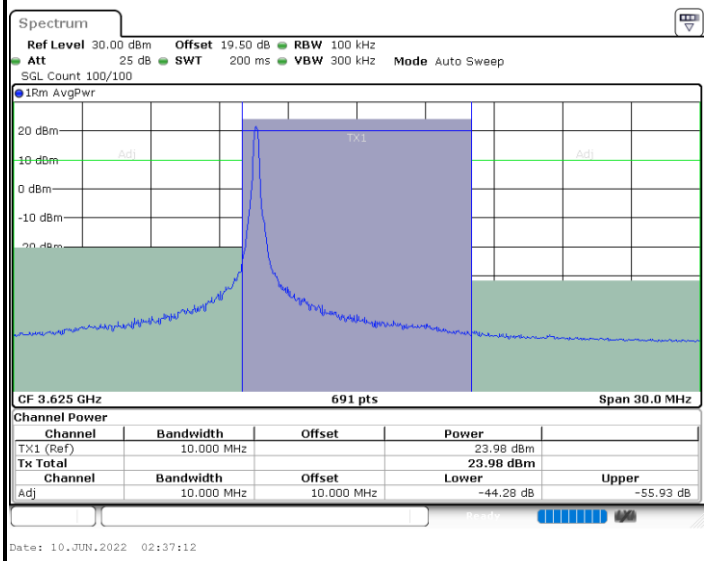
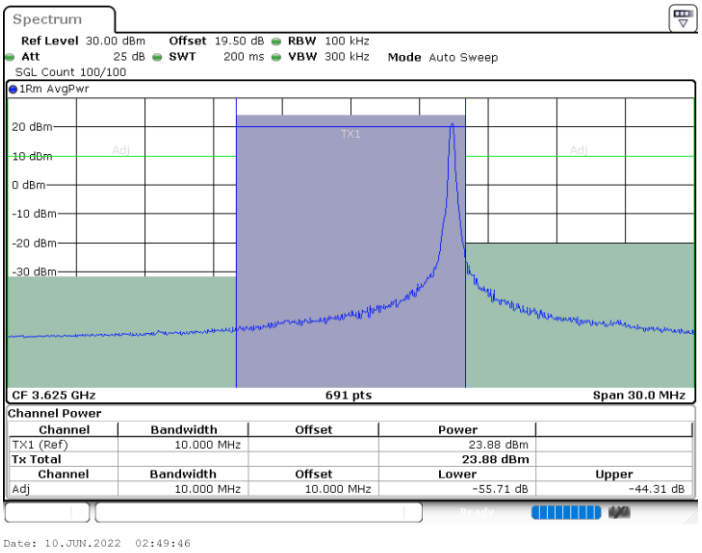
LTE Band 48 / 10MHz

16QAM

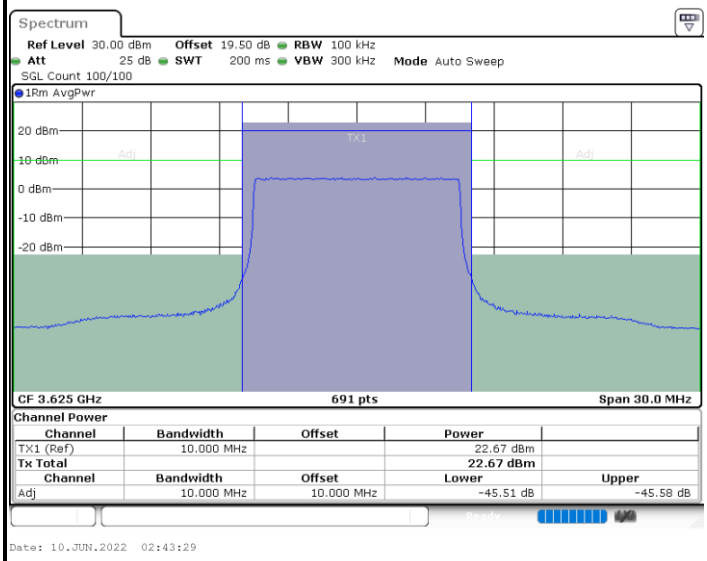
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / Full RB



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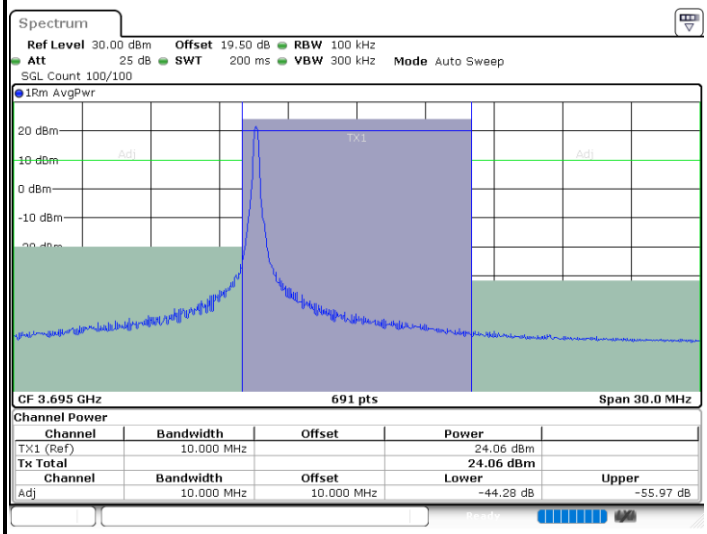
LTE Band 48 / 10MHz

16QAM

Highest Channel / 1RB0



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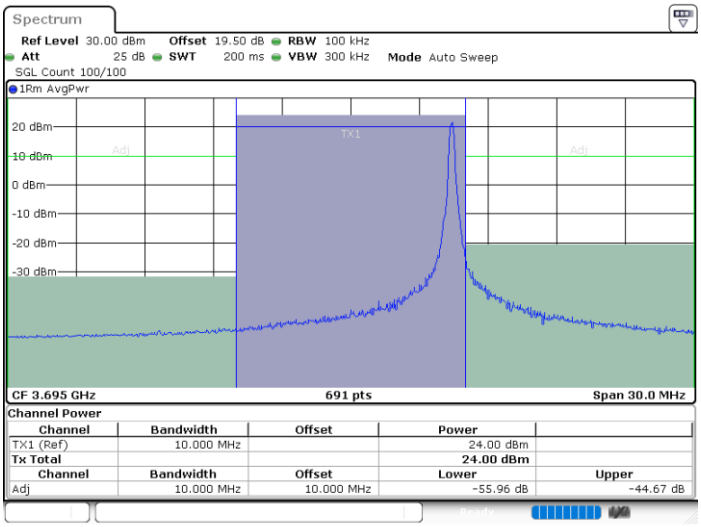
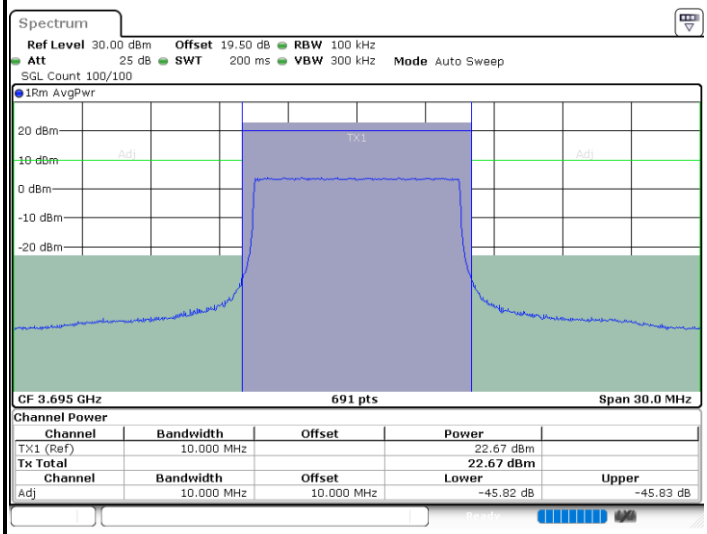
Highest Channel / 1RBmax



Date: 10.JUN.2022 02:51:53

Highest Channel / Full RB



Date: 10.JUN.2022 02:45:35

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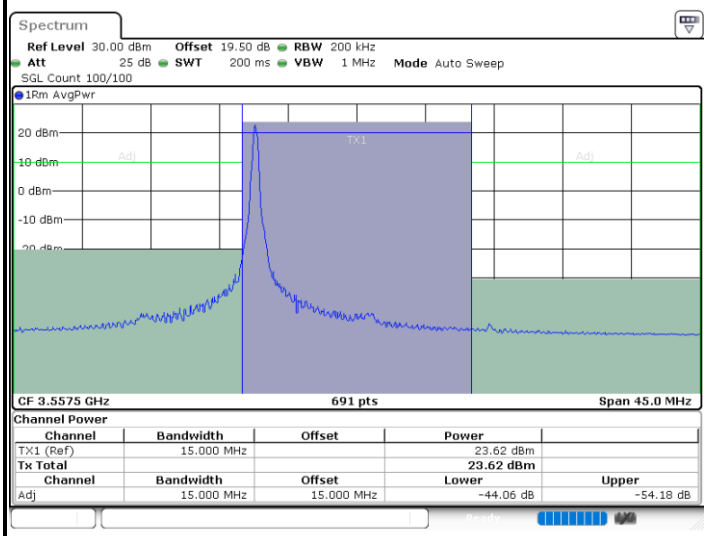
LTE Band 48 / 15MHz

16QAM

Lowest Channel / 1RB0



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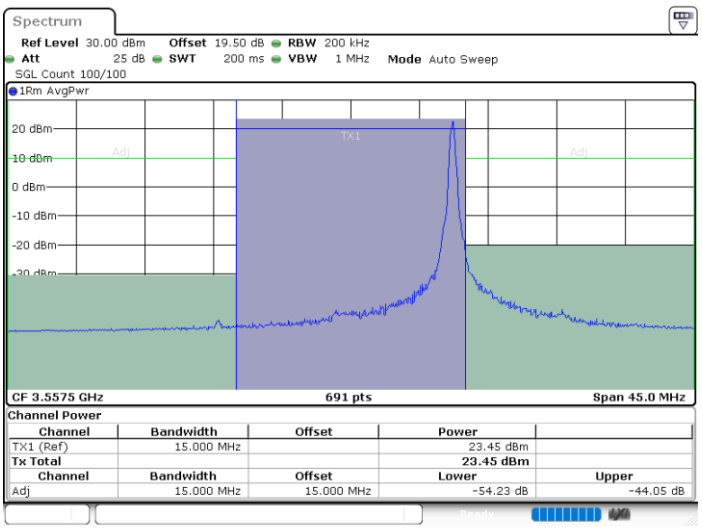
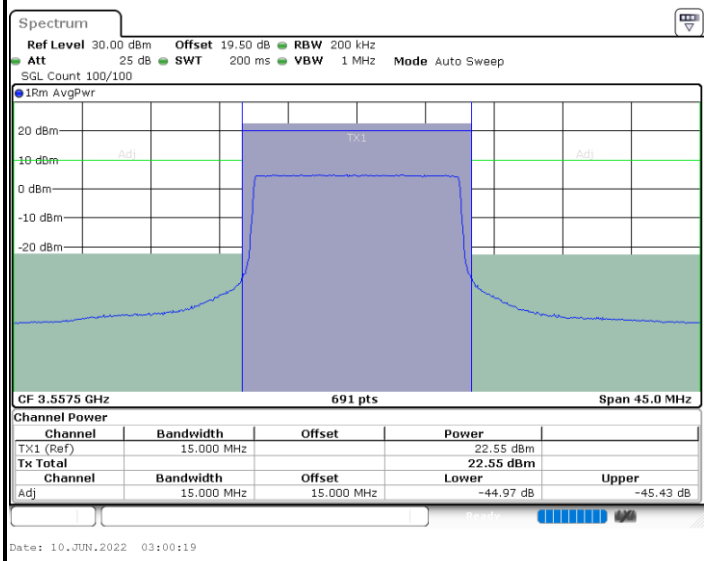


Lowest Channel / Full RB



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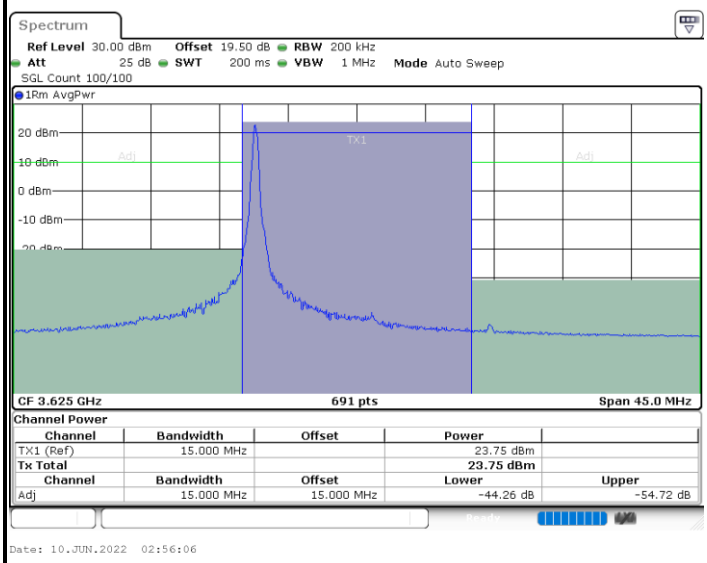
LTE Band 48 / 15MHz

16QAM

Middle Channel / 1RB0



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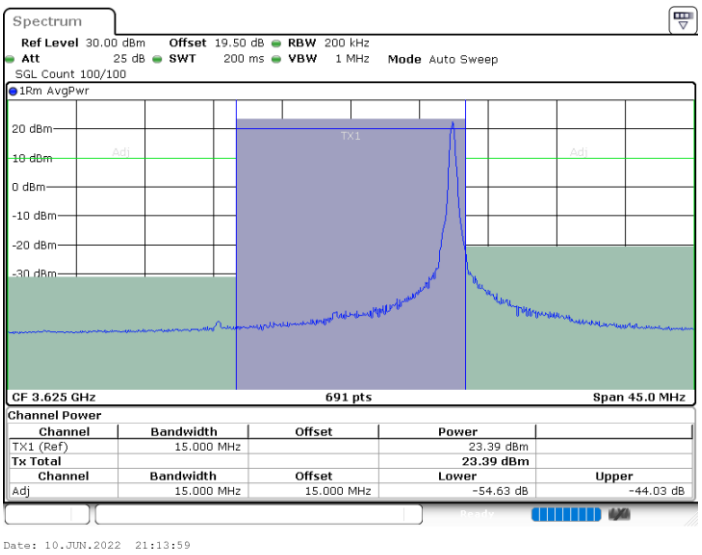

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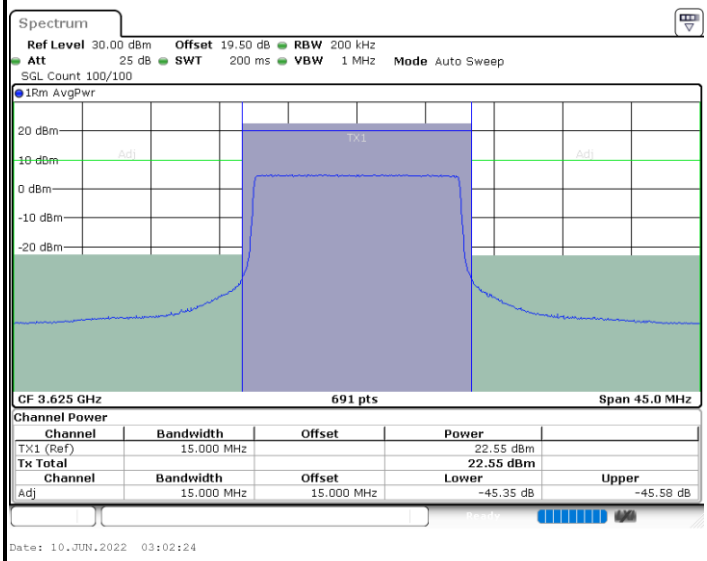

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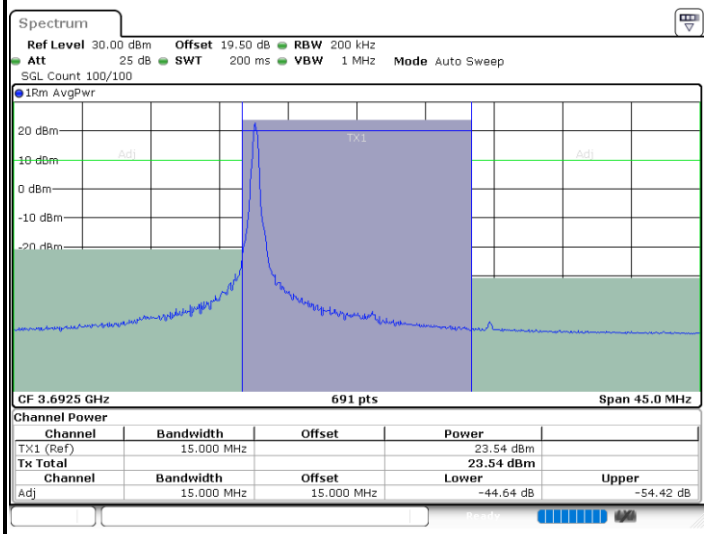
LTE Band 48 / 15MHz

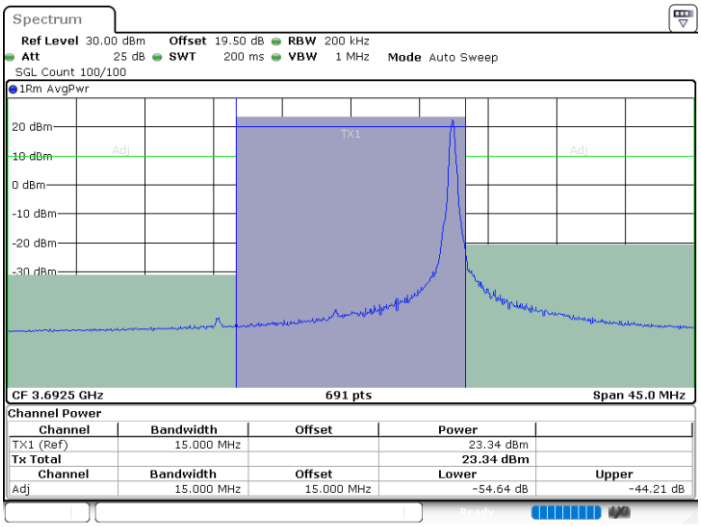
16QAM

Highest Channel / 1RB0



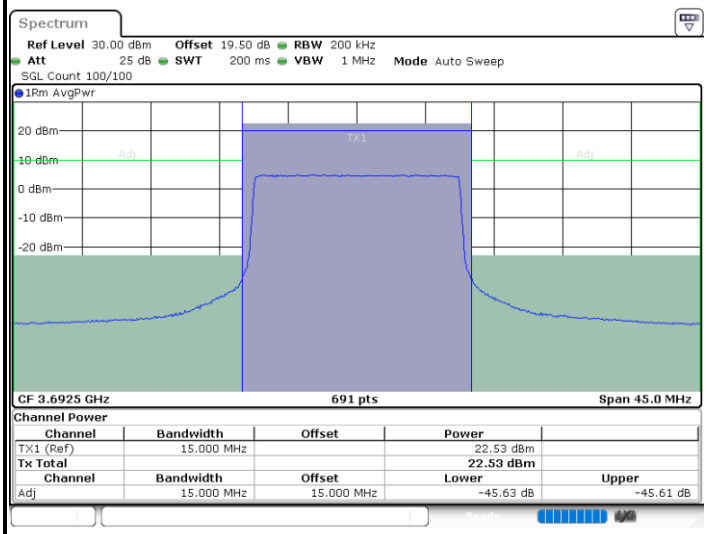
Date: 10.JUN.2022 02:58:12

Highest Channel / 1RBmax



Date: 10.JUN.2022 21:16:07

Highest Channel / Full RB



Date: 10.JUN.2022 03:04:30

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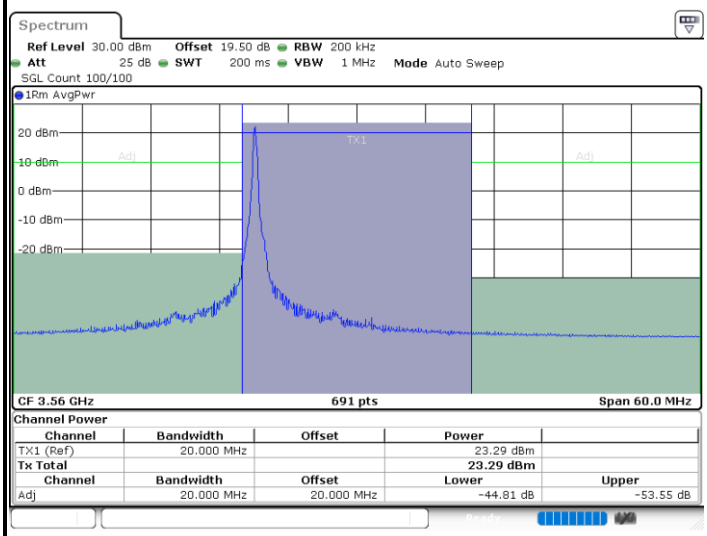
LTE Band 48 / 20MHz

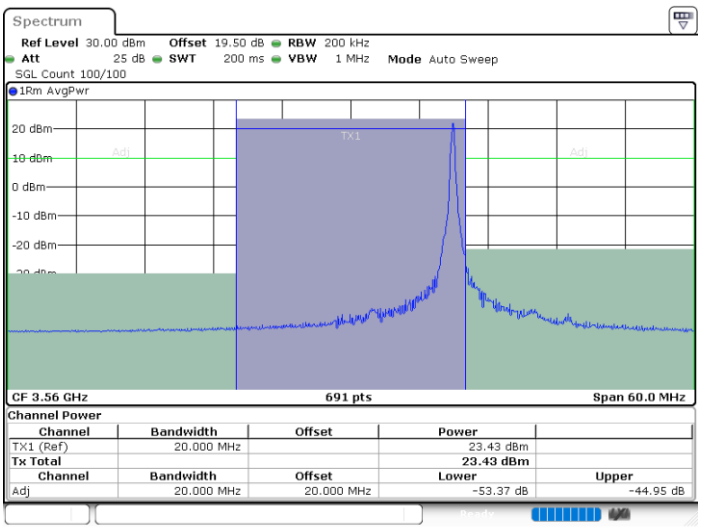
16QAM

Lowest Channel / 1RB0



Date: 10.JUN.2022 21:24:21

Lowest Channel / 1RBmax



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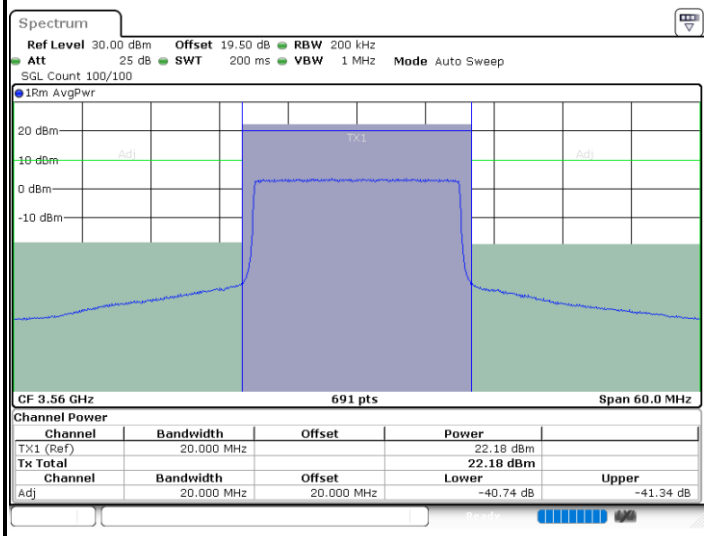
Lowest Channel / Full RB



Date: 10.JUN.2022 21:18:13

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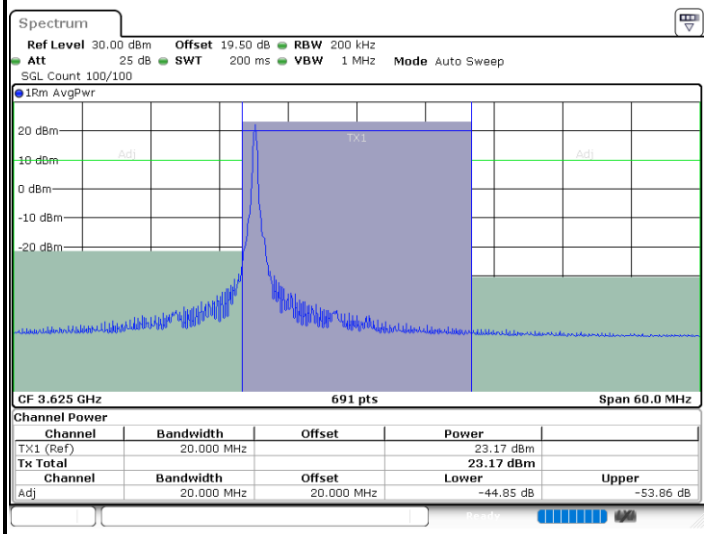
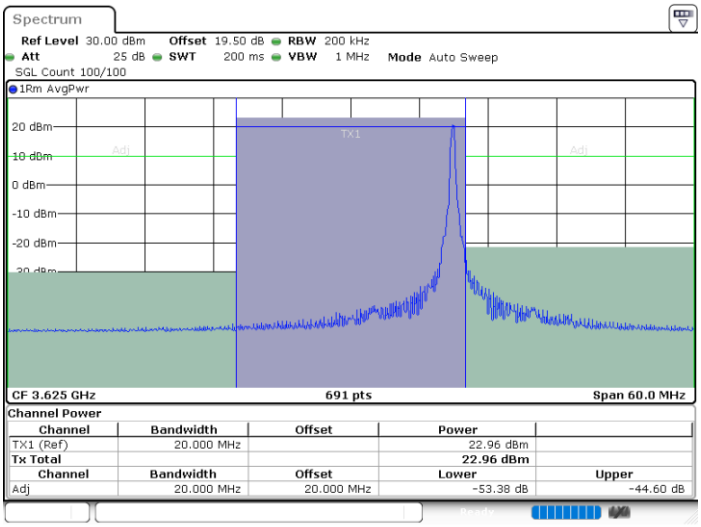
LTE Band 48 / 20MHz

16QAM

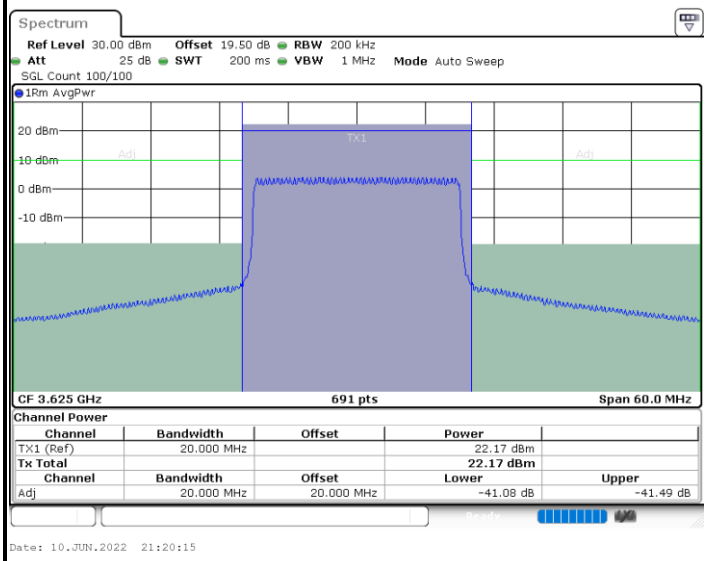
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / Full RB



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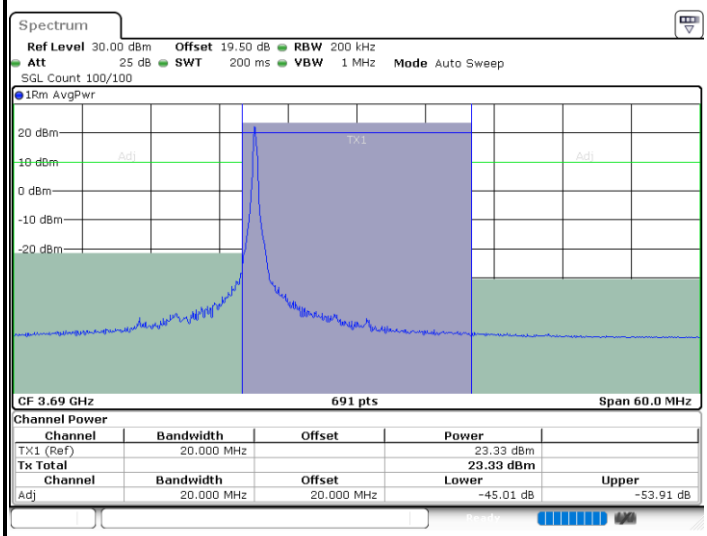
LTE Band 48 / 20MHz

16QAM

Highest Channel / 1RB0



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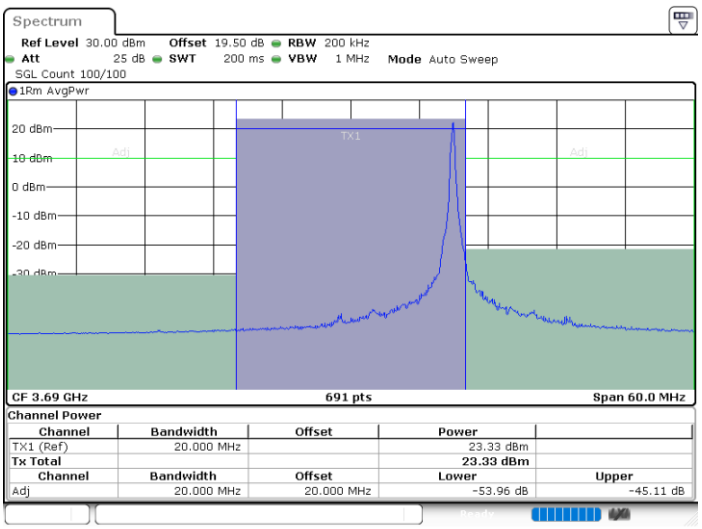
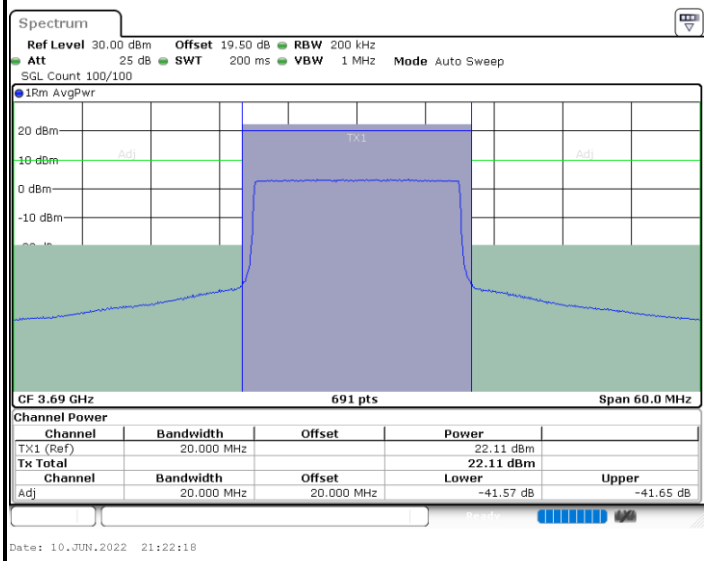


Highest Channel / Full RB



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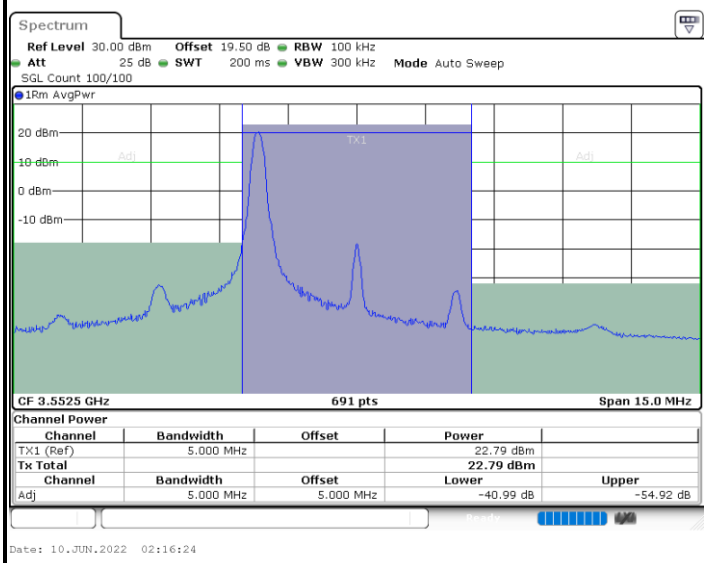
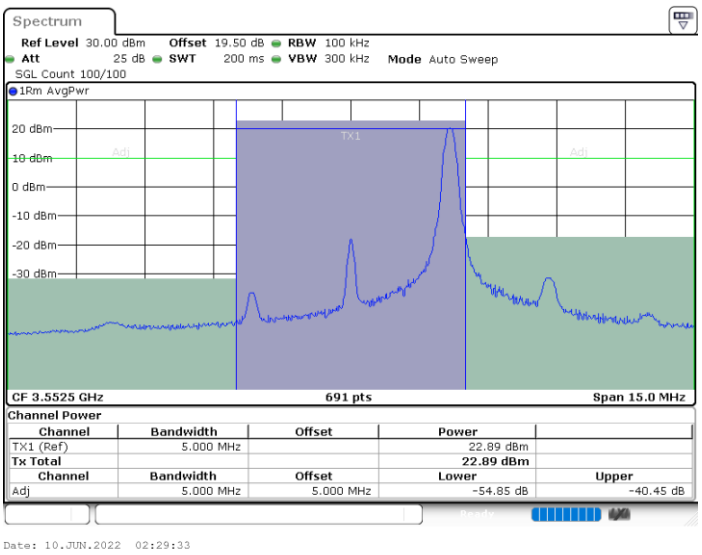
LTE Band 48 / 5MHz

64QAM

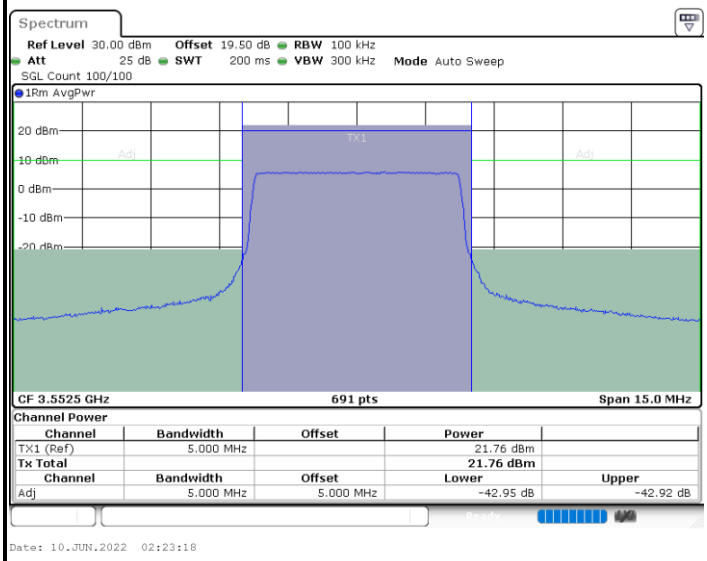
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / Full RB



N/A

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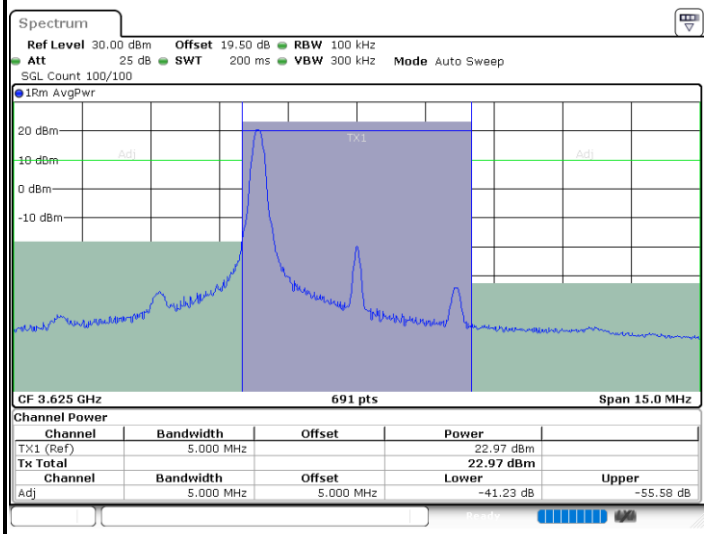
LTE Band 48 / 5MHz

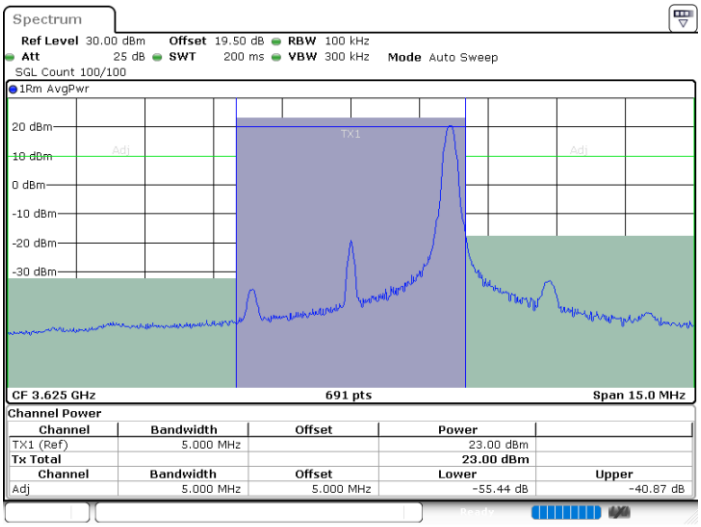
64QAM

Middle Channel / 1RB0



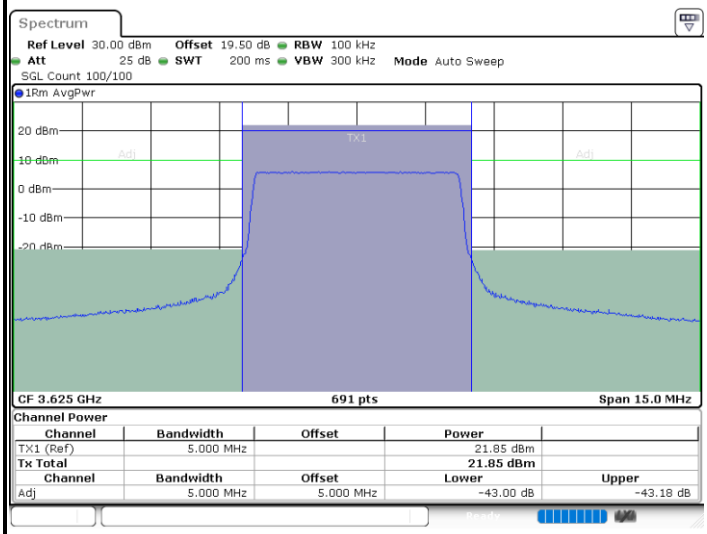
Date: 10.JUN.2022 02:17:06

Middle Channel / 1RBmax



Date: 10.JUN.2022 02:30:14

Middle Channel / Full RB



Date: 10.JUN.2022 02:24:00

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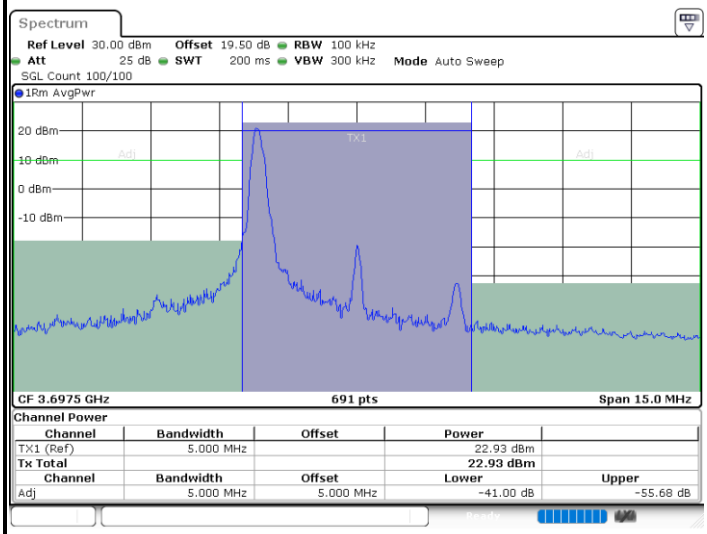
LTE Band 48 / 5MHz

64QAM

Highest Channel / 1RB0



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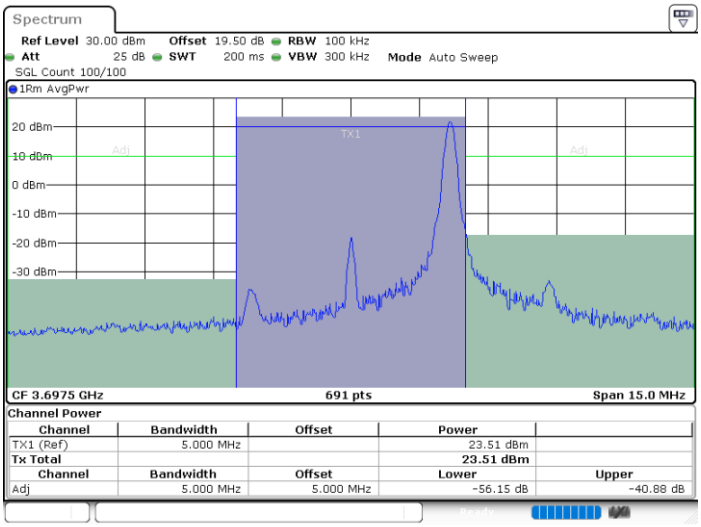
Highest Channel / 1RBmax



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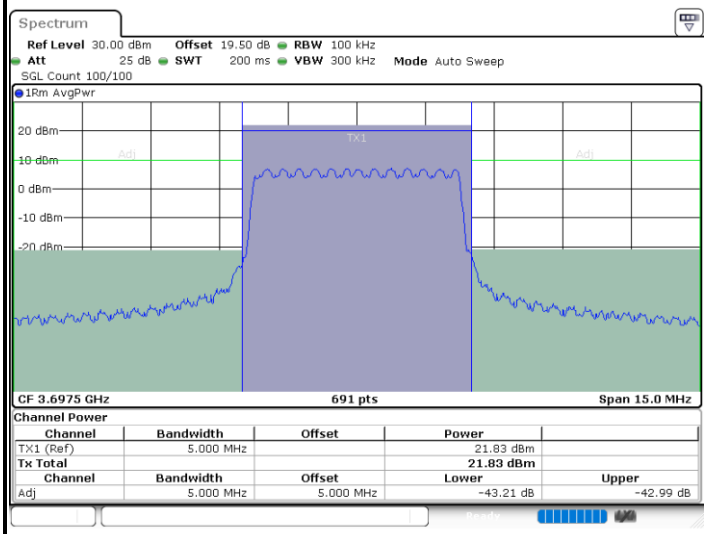
Highest Channel / Full RB



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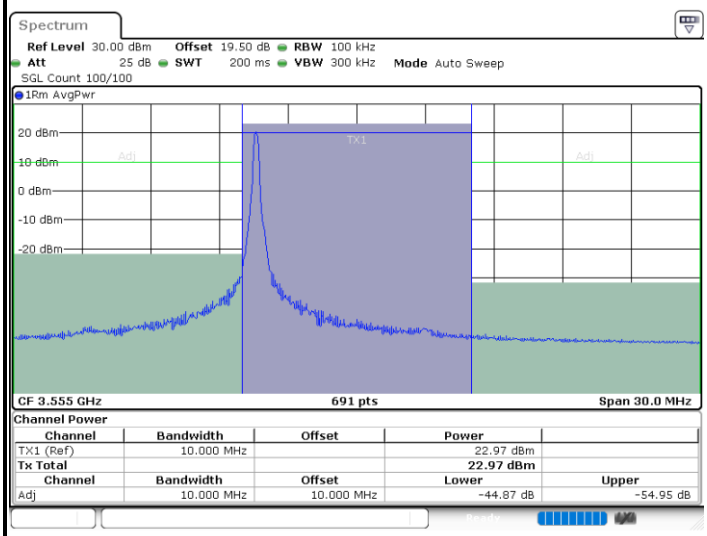
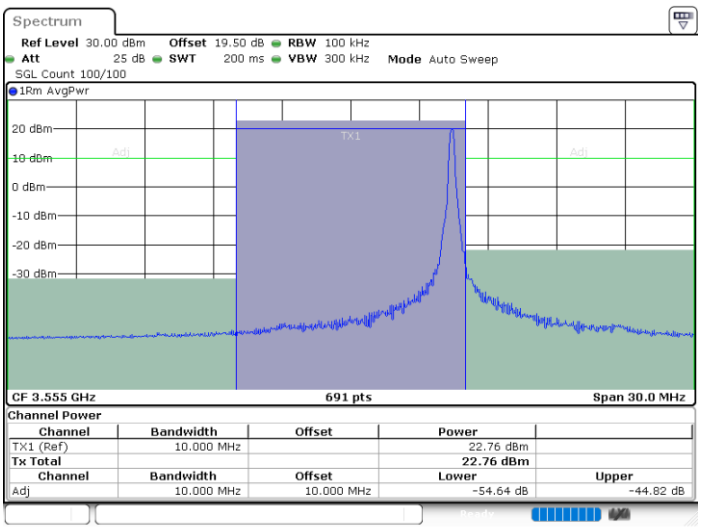
LTE Band 48 / 10MHz

64QAM

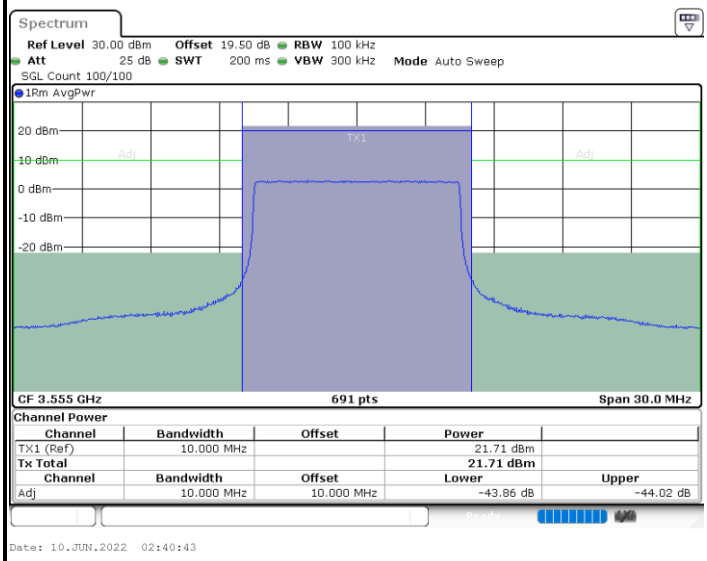
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / Full RB



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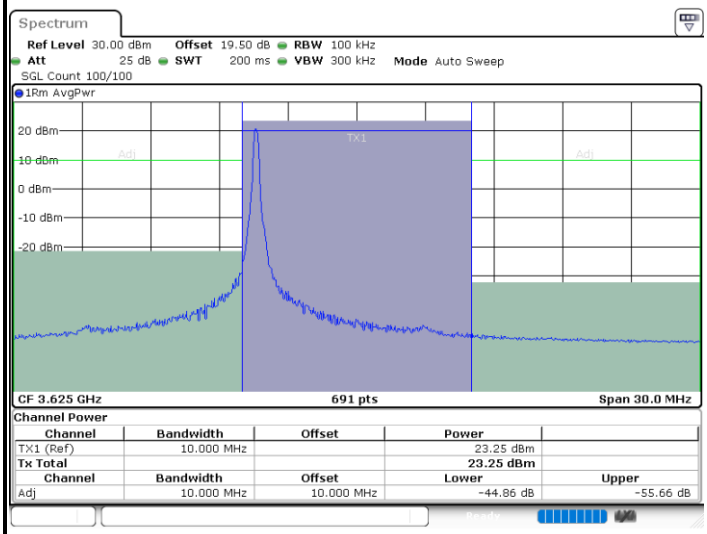
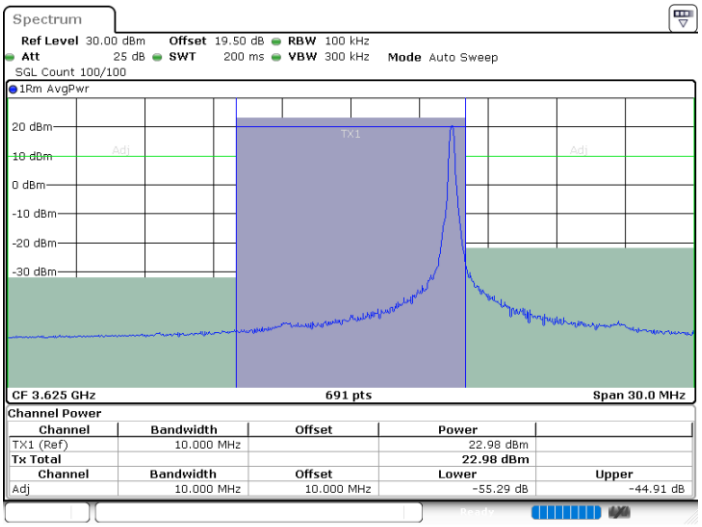
LTE Band 48 / 10MHz

64QAM

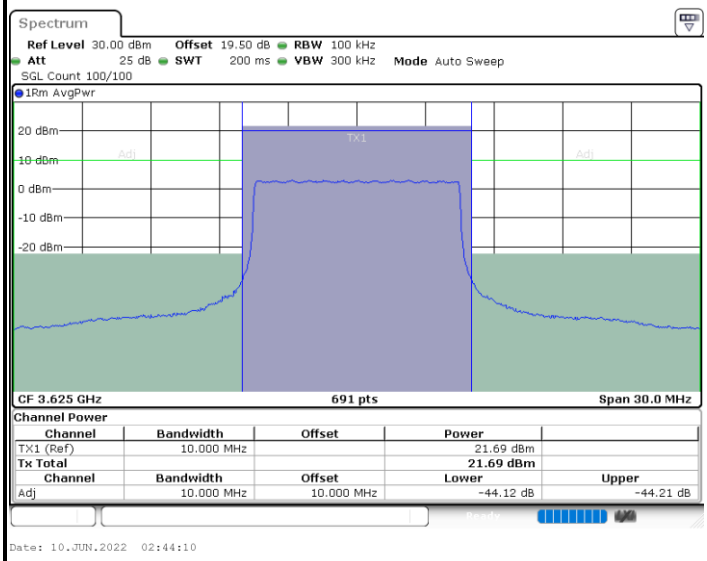
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / Full RB



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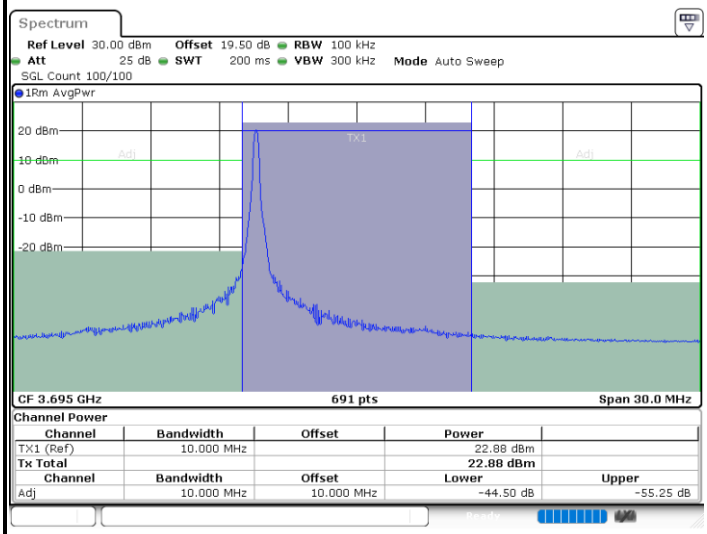
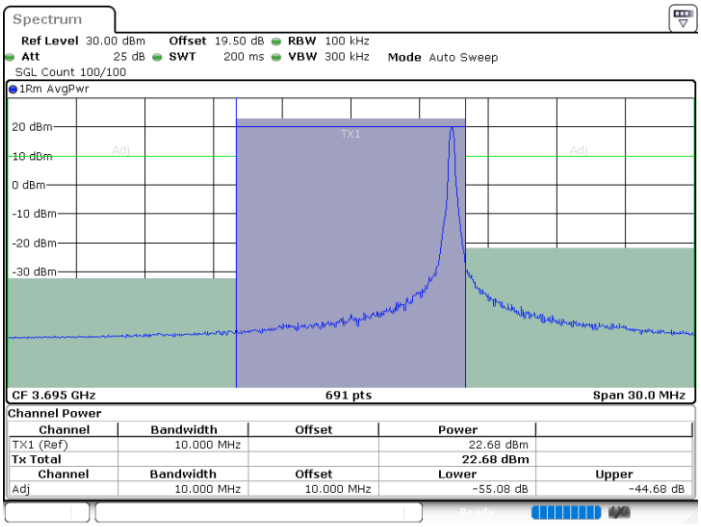
LTE Band 48 / 10MHz

64QAM

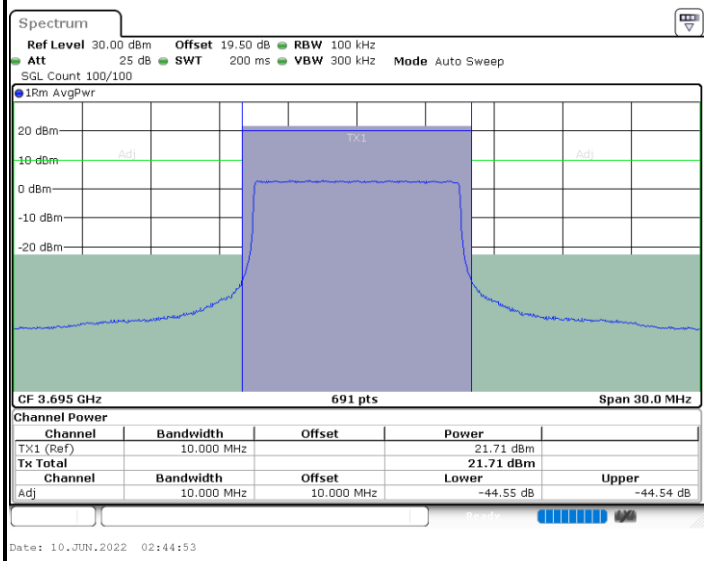
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / Full RB



N/A

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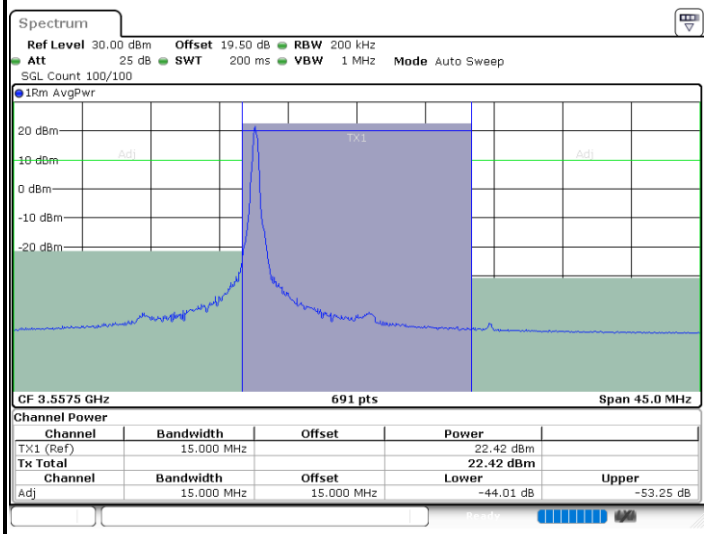
LTE Band 48 / 15MHz

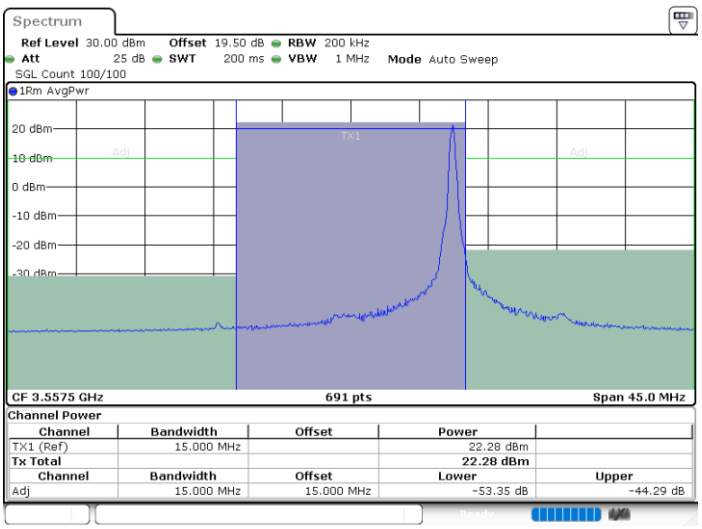
64QAM

Lowest Channel / 1RB0



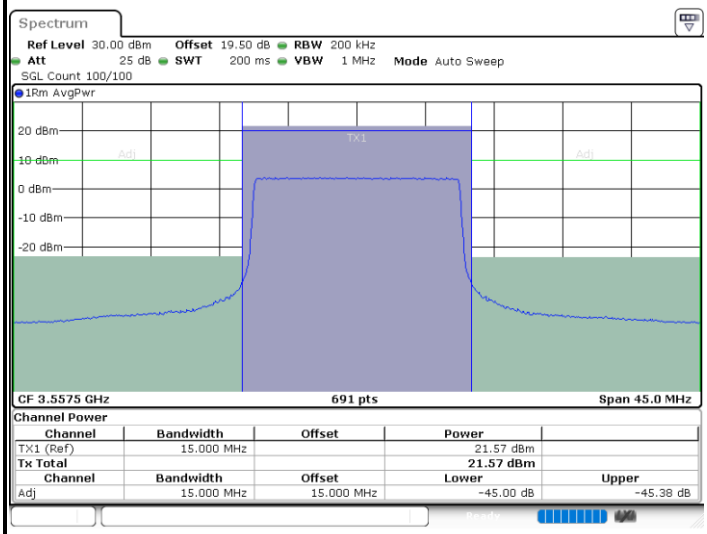
Date: 10.JUN.2022 02:54:44

Lowest Channel / 1RBmax



Date: 10.JUN.2022 21:12:36

Lowest Channel / Full RB



Date: 10.JUN.2022 03:01:01

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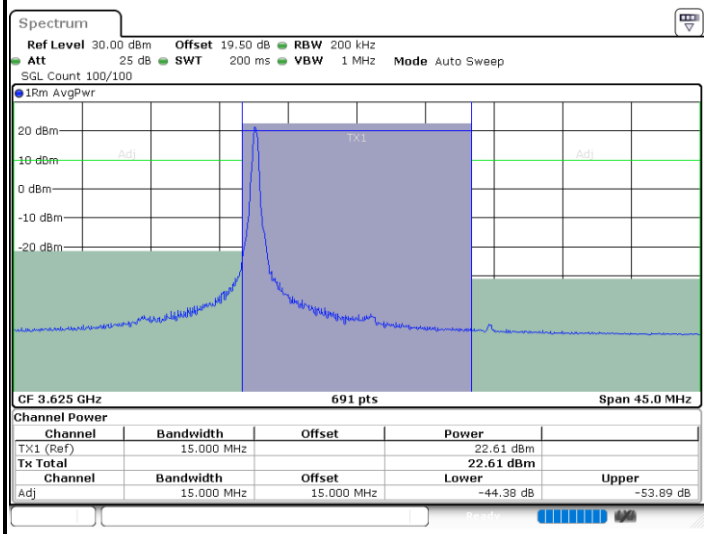
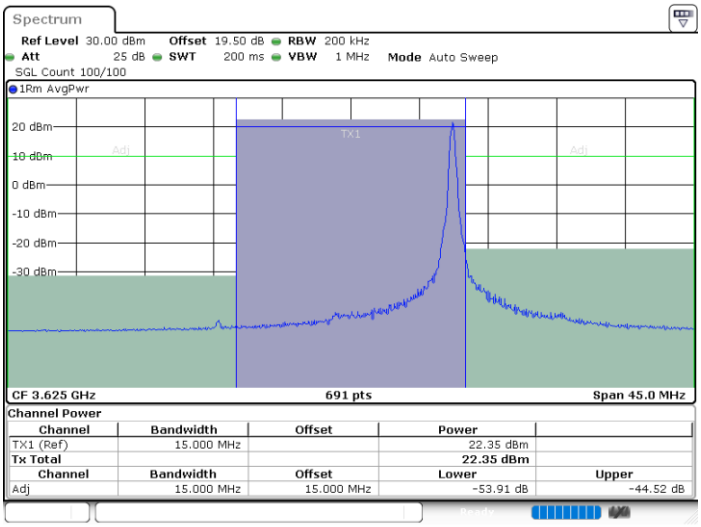
LTE Band 48 / 15MHz

64QAM

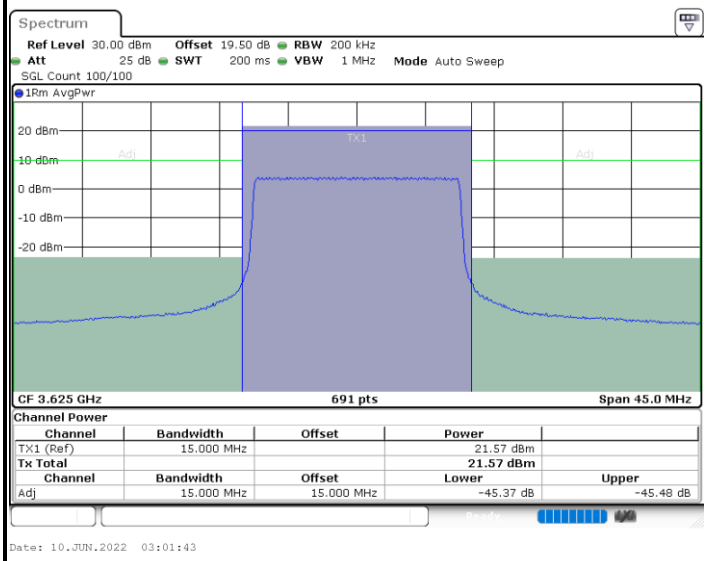
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / Full RB



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