FCC RF Test Report

APPLICANT	: Rolling Wireless S.a r.l.
EQUIPMENT	: 5G Module
BRAND NAME	: Rolling Wireless
MODEL NAME	: RW135R-GL
FCC ID	: 2AX2URW135RGL
STANDARD	: 47 CFR Part 96
CLASSIFICATION	: Citizens Band End User Devices (CBE)
EQUIPMENT TYPE	: End User Equipment
TEST DATE(S)	: Apr. 28, 2026 ~ May 13, 2026

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 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.

Fly Liang

Approved by: Fly Liang

ACCREDITED
Cert #5145.01

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People's Republic of China

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Appendix A. Test Results of Conducted Test

Appendix B. Test Results of Radiated Test

Appendix C. Test Setup Photographs

History of this test report

Report No.	Version	Description	Issued Date
FG642201F	01	Initial issue of report	Jun. 18, 2026

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.3	§2.1046	Conducted Output Power	Reporting only	-
-	§96.41	Peak-to-Average Ratio	Not Applicable	Not applicable for End User Devices
3.4	§96.41	Maximum E.I.R.P	Pass	-
		Maximum Power Spectral Density	Not Applicable	Not applicable for End User Devices
3.5	§2.1049 §96.41	Occupied Bandwidth	Reporting only	-
3.6	§2.1051 §96.41	Conducted Band Edge Measurement Adjacent Channel Leakage Ratio	Pass	-
3.7	§2.1051 §96.41	Conducted Spurious Emission	Pass	
3.8	§2.1055	Frequency Stability for Temperature & Voltage	Pass	-
4.4	§2.1051 §96.41	Radiated Spurious Emission	Pass	Under limit 7.30 dB at 14464.00 MHz

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

1 General Description

1.1 Applicant

Rolling Wireless S.a r.l.
8-10, rue Mathias Hardt 1717, Luxembourg

1.2 Manufacturer

Rolling Wireless S.a r.l.
8-10, rue Mathias Hardt 1717, Luxembourg

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	5G Module
Brand Name	Rolling Wireless
Model Name	RW135R-GL
FCC ID	2AX2URW135RGL
Tx Frequency	LTE Band 42 : 3550 MHz ~ 3600 MHz LTE Band 43 : 3600 MHz ~ 3700 MHz LTE Band 48: 3550 MHz ~ 3700 MHz
Rx Frequency	LTE Band 42 : 3550 MHz ~ 3600 MHz LTE Band 43 : 3600 MHz ~ 3700 MHz LTE Band 48: 3550 MHz ~ 3700 MHz
Bandwidth	5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 42: 21.73 dBm LTE Band 43: 21.77 dBm LTE Band 48: 21.82 dBm
Antenna Gain	LTE Band 42: 1.0 dBi LTE Band 43: 1.0 dBi LTE Band 48: 1.0 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM
IMEI Code	Conducted: 359200990000278 Radiation: 359200990002126 for Sample 1 359200990006531 for Sample 2
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. There are two types of EUT. For details, please refer to the RW135R-GL_Operational Description of Product Equality Declaration exhibit separately. After evaluation, the differences will not affect RF performance, so we choose the Sample1 to full test, and Sample2 to verify the worst case for RSE, the worst case of LTE is recorded in this report.

1.4 Maximum Conducted Power and Emission Designator

LTE Band 42		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
5	**3552.5~3597.5**	0.1462	4M46G7D	0.1285	4M50W7D
10	**3555.0~3595.0**	0.1455	9M05G7D	0.1276	9M11W7D
15	**3557.5~3592.5**	0.1455	13M4G7D	0.1291	13M4W7D
20	**3560.0~3590.0**	0.1489	17M9G7D	0.1315	17M9W7D

LTE Band 43		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
5	**3602.5~3697.5**	0.1493	4M46G7D	0.1259	4M50W7D
10	**3605.0~3695.0**	0.1472	9M05G7D	0.1259	9M11W7D
15	**3607.5~3692.5**	0.1496	13M4G7D	0.1250	13M4W7D
20	**3610.0~3690.0**	0.1503	17M9G7D	0.1268	17M9W7D

LTE Band 48		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency Range (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
5	**3552.5~3697.5**	0.1489	4M46G7D	0.1153	4M50W7D
10	**3555~3695**	0.1496	9M05G7D	0.1164	9M11W7D
15	**3557.5~3692.5**	0.1483	13M4G7D	0.1153	13M4W7D
20	**3560~3690**	0.1521	17M9G7D	0.1189	17M9W7D

Note:

1. All modulations have been tested, only the worst test results of PSK & QAM are shown in the report.
2. LTE Band 48 overlaps the entire frequency range of LTE Band 42/43. Therefore, the test results provided in this report covers Band 48 as well as Band 42/43.

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	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	TH01-SZ 03CH02-SZ	CN1256	421272

1.6 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH02-SZ	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 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

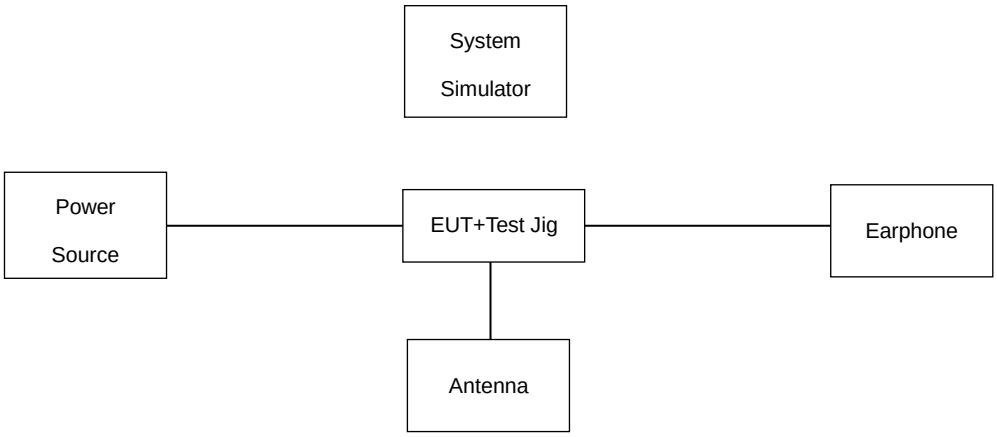
2.1 Test Mode

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	42	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	43	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	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
26dB and 99% Bandwidth	48	-	-	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
E.I.R.P	42	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	43	-	-	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	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	
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. 4. For QAM modulation mode, the whole testing has assessed 16QAM&64QAM mode by referring to the higher conducted power																

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.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	DC power supply	N/A	N/A	N/A	N/A	N/A
3.	WWAN Antenna	N/A	N/A	N/A	N/A	N/A
4.	Test Jig	N/A	N/A	N/A	N/A	N/A
5.	Earphone	N/A	N/A	N/A	N/A	N/A

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 42 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	43190	43340	43490
	Frequency	3560	3575	3590
15	Channel	43165	43340	43515
	Frequency	3557.5	3575	3592.5
10	Channel	43140	43340	43540
	Frequency	3555	3575	3595
5	Channel	43115	43340	43565
	Frequency	3552.5	3575	3597.5

LTE Band 43 Channel and Frequency List				
BW [MHz]	**Channel/Frequency(MHz)**	**Lowest**	**Middle**	**Highest**
20	Channel	43690	44090	44490
	Frequency	3610	3650	3690
15	Channel	43665	44090	44515
	Frequency	3607.5	3650	3692.5
10	Channel	43640	44090	44540
	Frequency	3605	3650	3695
5	Channel	43615	44090	44565
	Frequency	3602.5	3650	3697.5

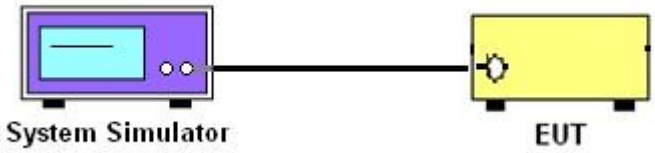
3 Conducted Test Items

3.1 Measuring Instruments

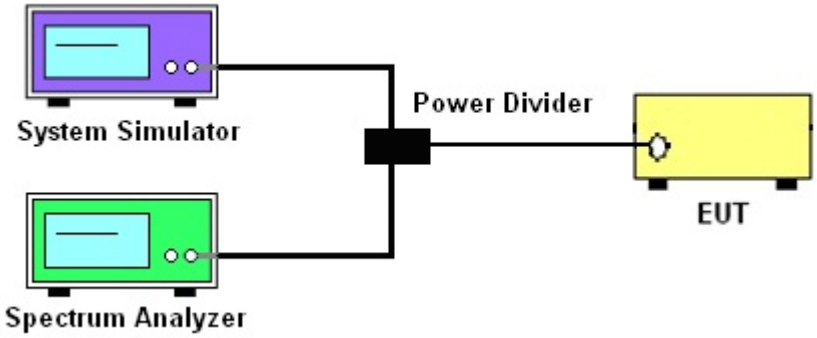
See list of measuring instruments of this test report.

3.2 Test Setup

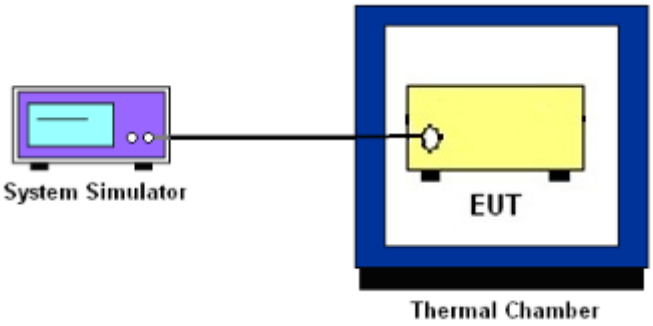
3.2.1 Conducted Output Power / ACLR



3.2.2 26dB & 99% Occupied Bandwidth, Conducted Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.2.4 Test Result of Conducted Test

Please refer to Appendix A.

3.3 Conducted Output Power

3.3.1 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.

3.3.2 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.

3.4 EIRP

3.4.1 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:

1. 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)

3.4.2 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

3.5 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

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

3.6.2 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 >= 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

96.41 (e)(2)

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. 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.

3.8 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.

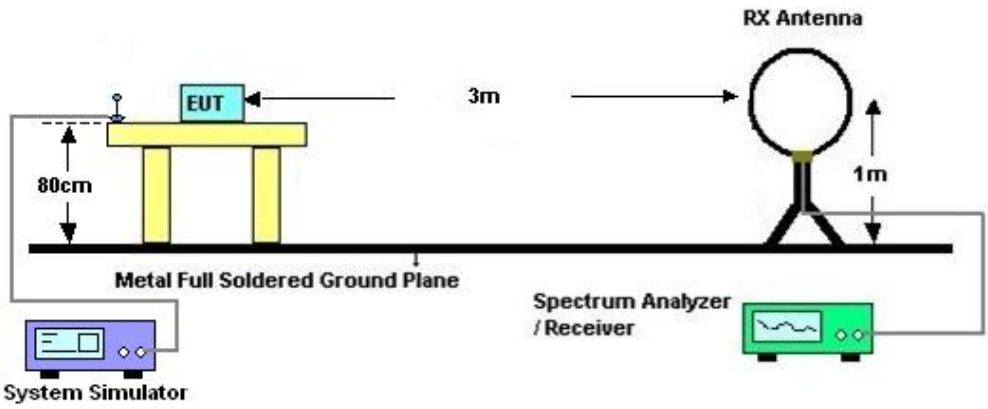
4 Radiated Test Items

4.1 Measuring Instruments

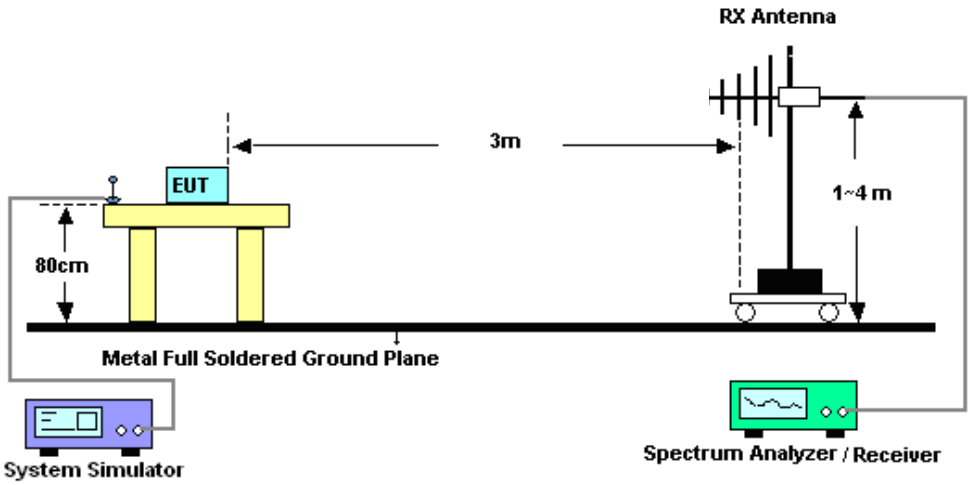
See list of measuring instruments of this test report.

4.2 Test Setup

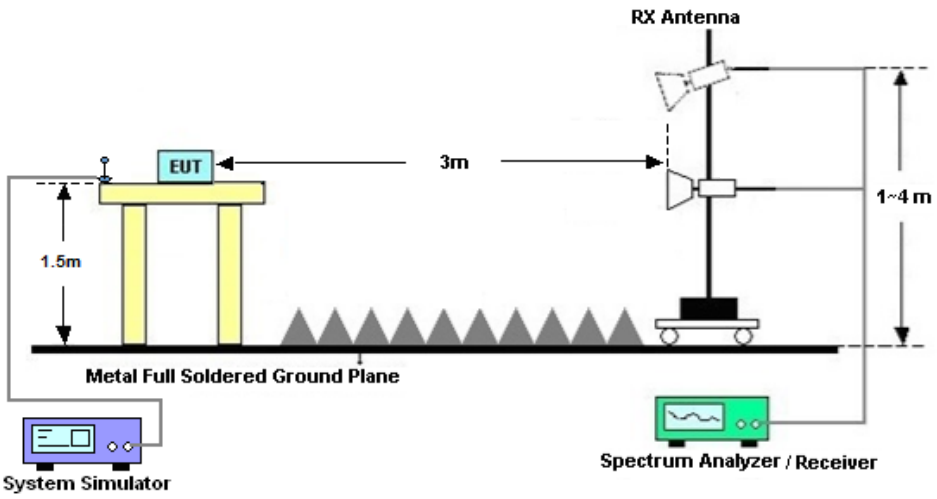
4.2.1 For radiated test below 30MHz



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 C63.26-2015. 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
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2025	May 13, 2026	Jul. 02, 2026	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 25, 2025	May 13, 2026	Dec. 24, 2026	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Dec. 23, 2025	May 13, 2026	Dec. 22, 2027	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2025	May 13, 2026	Jul. 04, 2026	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2025	May 13, 2026	Jul. 03, 2026	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 03, 2025	May 13, 2026	Apr. 02, 2027	Radiation (03CH02-SZ)
LF Amplifier	EM Electronics	EM330	060788	20MHz-3GHz	Dec. 25, 2025	May 13, 2026	Dec. 24, 2026	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 13, 2025	May 13, 2026	Oct. 12, 2026	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 13, 2025	May 13, 2026	Oct. 12, 2026	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	May 13, 2026	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	May 13, 2026	NCR	Radiation (03CH02-SZ)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Mar. 26, 2026	Apr. 28, 2026~ Apr. 29, 2026	Mar. 25, 2027	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V，3A	Oct. 13, 2025	Apr. 28, 2026~ Apr. 29, 2026	Oct. 12, 2026	Conducted (TH01-SZ)
Power Divider	Titan	P02N005180	923402	0.4GHz~26.5GHz	Nov. 07, 2025	Apr. 28, 2026~ Apr. 29, 2026	Nov. 06, 2026	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 02, 2025	Apr. 28, 2026~ Apr. 29, 2026	Jul. 01, 2026	Conducted (TH01-SZ)

NCR: No Calibration Required.

6 Measurement Uncertainty

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	±1.34 dB
Occupied Channel Bandwidth	±0.012 MHz
Conducted Power	±1.34 dB
Frequency Stability	±1.3 Hz

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.47dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.31dB

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.72dB

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Appendix A. Test Results of Conducted Test

Test Engineer :	Lorenzo Liu	Temperature :	24~26℃
		Relative Humidity :	50~53%

Conducted Output Power(Average power) and EIRP

LTE Band 42:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				43190	43340	43490			
Frequency (MHz)				3560	3575	3590	L	M	H
20	QPSK	1	0	21.72	21.73	21.63	0.1871	0.1875	0.1832
20	QPSK	1	49	21.70	21.72	21.63	0.1862	0.1871	0.1832
20	QPSK	1	99	21.52	21.51	21.39	0.1786	0.1782	0.1734
20	QPSK	50	0	21.13	21.14	21.08	0.1633	0.1637	0.1614
20	QPSK	50	24	21.14	21.12	21.05	0.1637	0.1629	0.1603
20	QPSK	50	50	21.05	21.03	20.96	0.1603	0.1596	0.1570
20	QPSK	100	0	21.14	21.08	21.03	0.1637	0.1614	0.1596
20	16QAM	1	0	21.19	21.15	21.03	0.1656	0.1641	0.1596
20	16QAM	1	49	21.10	21.17	21.06	0.1622	0.1648	0.1607
20	16QAM	1	99	20.88	20.96	20.90	0.1542	0.1570	0.1549
20	16QAM	50	0	20.13	20.13	20.08	0.1297	0.1297	0.1282
20	16QAM	50	24	20.17	20.11	20.05	0.1309	0.1291	0.1274
20	16QAM	50	50	20.07	20.03	19.95	0.1279	0.1268	0.1245
20	16QAM	100	0	20.11	20.10	20.03	0.1291	0.1288	0.1268
20	64QAM	1	0	20.10	20.12	20.07	0.1288	0.1294	0.1279
20	64QAM	1	49	20.04	20.05	19.94	0.1271	0.1274	0.1242
20	64QAM	1	99	19.94	19.91	19.83	0.1242	0.1233	0.1211
20	64QAM	50	0	19.21	19.17	19.12	0.1050	0.1040	0.1028
20	64QAM	50	24	19.21	19.16	19.11	0.1050	0.1038	0.1026
20	64QAM	50	50	19.11	19.06	19.02	0.1026	0.1014	0.1005
20	64QAM	100	0	19.11	19.11	19.04	0.1026	0.1026	0.1009
20	256QAM	1	0	16.88	17.02	16.96	0.0614	0.0634	0.0625
20	256QAM	1	49	17.05	17.07	17.12	0.0638	0.0641	0.0649
20	256QAM	1	99	16.79	16.86	16.77	0.0601	0.0611	0.0598
20	256QAM	50	0	17.05	17.00	17.02	0.0638	0.0631	0.0634
20	256QAM	50	24	17.01	17.08	16.99	0.0632	0.0643	0.0630
20	256QAM	50	50	16.77	16.80	16.75	0.0598	0.0603	0.0596
20	256QAM	100	0	16.95	16.98	16.99	0.0624	0.0628	0.0630
Channel				43165	43340	43515	EIRP(W)		
Frequency (MHz)				3557.5	3575	3592.5	L	M	H
15	QPSK	1	0	21.63	21.58	21.55	0.1832	0.1811	0.1799
15	QPSK	1	37	21.55	21.63	21.57	0.1799	0.1832	0.1807
15	QPSK	1	74	21.46	21.42	21.32	0.1762	0.1746	0.1706
15	QPSK	36	0	21.04	21.03	21.00	0.1600	0.1596	0.1585
15	QPSK	36	20	21.02	20.99	20.93	0.1592	0.1581	0.1560

15	QPSK	36	39	20.91	20.93	20.88	0.1552	0.1560	0.1542
15	QPSK	75	0	21.05	21.02	20.88	0.1603	0.1592	0.1542
15	16QAM	1	0	21.11	21.09	20.94	0.1626	0.1618	0.1563
15	16QAM	1	37	20.97	21.09	20.99	0.1574	0.1618	0.1581
15	16QAM	1	74	20.78	20.89	20.78	0.1507	0.1545	0.1507
15	16QAM	36	0	20.05	20.01	19.94	0.1274	0.1262	0.1242
15	16QAM	36	20	20.09	19.99	19.91	0.1285	0.1256	0.1233
15	16QAM	36	39	19.95	19.91	19.87	0.1245	0.1233	0.1222
15	16QAM	75	0	20.01	20.03	19.94	0.1262	0.1268	0.1242
15	64QAM	1	0	20.00	20.02	19.98	0.1259	0.1265	0.1253
15	64QAM	1	37	19.92	19.90	19.84	0.1236	0.1230	0.1213
15	64QAM	1	74	19.83	19.78	19.70	0.1211	0.1197	0.1175
15	64QAM	36	0	19.14	19.10	18.97	0.1033	0.1023	0.0993
15	64QAM	36	20	19.11	19.08	19.02	0.1026	0.1019	0.1005
15	64QAM	36	39	18.99	19.00	18.95	0.0998	0.1000	0.0989
15	64QAM	75	0	19.00	18.97	18.90	0.1000	0.0993	0.0977
15	256QAM	1	0	16.76	16.91	16.81	0.0597	0.0618	0.0604
15	256QAM	1	37	16.98	16.92	17.05	0.0628	0.0619	0.0638
15	256QAM	1	74	16.65	16.73	16.63	0.0582	0.0593	0.0579
15	256QAM	36	0	16.91	16.92	16.88	0.0618	0.0619	0.0614
15	256QAM	36	20	16.87	16.96	16.90	0.0612	0.0625	0.0617
15	256QAM	36	39	16.68	16.72	16.61	0.0586	0.0592	0.0577
15	256QAM	75	0	16.87	16.86	16.89	0.0612	0.0611	0.0615
Channel				43140	43340	43540	EIRP(W)		
Frequency (MHz)				3555	3575	3595	L	M	H
10	QPSK	1	0	21.57	21.63	21.51	0.1807	0.1832	0.1782
10	QPSK	1	25	21.62	21.61	21.48	0.1828	0.1824	0.1770
10	QPSK	1	49	21.46	21.36	21.24	0.1762	0.1722	0.1675
10	QPSK	25	0	20.98	21.08	20.93	0.1578	0.1614	0.1560
10	QPSK	25	12	21.02	21.06	20.91	0.1592	0.1607	0.1552
10	QPSK	25	25	20.93	20.91	20.81	0.1560	0.1552	0.1517
10	QPSK	50	0	21.08	20.94	20.88	0.1614	0.1563	0.1542
10	16QAM	1	0	21.06	21.00	20.93	0.1607	0.1585	0.1560
10	16QAM	1	25	20.95	21.02	20.93	0.1567	0.1592	0.1560
10	16QAM	1	49	20.78	20.84	20.82	0.1507	0.1528	0.1521
10	16QAM	25	0	20.01	20.04	19.96	0.1262	0.1271	0.1247
10	16QAM	25	12	20.11	19.98	19.91	0.1291	0.1253	0.1233
10	16QAM	25	25	19.96	19.94	19.87	0.1247	0.1242	0.1222
10	16QAM	50	0	20.01	19.99	19.91	0.1262	0.1256	0.1233
10	64QAM	1	0	19.97	19.99	19.98	0.1250	0.1256	0.1253
10	64QAM	1	25	19.89	19.99	19.84	0.1227	0.1256	0.1213
10	64QAM	1	49	19.84	19.82	19.76	0.1213	0.1208	0.1191
10	64QAM	25	0	19.10	19.09	19.03	0.1023	0.1021	0.1007
10	64QAM	25	12	19.07	19.08	18.98	0.1016	0.1019	0.0995
10	64QAM	25	25	18.98	18.98	18.95	0.0995	0.0995	0.0989
10	64QAM	50	0	18.96	18.98	18.92	0.0991	0.0995	0.0982
10	256QAM	1	0	16.77	16.88	16.82	0.0598	0.0614	0.0605
10	256QAM	1	25	16.92	17.01	17.00	0.0619	0.0632	0.0631
10	256QAM	1	49	16.71	16.78	16.71	0.0590	0.0600	0.0590
10	256QAM	25	0	16.92	16.85	16.92	0.0619	0.0610	0.0619

10	256QAM	25	12	16.92	17.02	16.89	0.0619	0.0634	0.0615
10	256QAM	25	25	16.65	16.73	16.61	0.0582	0.0593	0.0577
10	256QAM	50	0	16.80	16.83	16.93	0.0603	0.0607	0.0621
Channel				43115	43340	43565	EIRP(W)		
Frequency (MHz)				3552.5	3575	3597.5	L	M	H
5	QPSK	1	0	21.64	21.61	21.52	0.1837	0.1824	0.1786
5	QPSK	1	12	21.61	21.65	21.52	0.1824	0.1841	0.1786
5	QPSK	1	24	21.42	21.37	21.26	0.1746	0.1726	0.1683
5	QPSK	12	0	21.01	21.08	20.95	0.1589	0.1614	0.1567
5	QPSK	12	7	21.00	20.97	20.98	0.1585	0.1574	0.1578
5	QPSK	12	13	20.96	20.88	20.86	0.1570	0.1542	0.1535
5	QPSK	25	0	21.08	21.01	20.90	0.1614	0.1589	0.1549
5	16QAM	1	0	21.08	21.08	20.91	0.1614	0.1614	0.1552
5	16QAM	1	12	20.95	21.09	21.00	0.1567	0.1618	0.1585
5	16QAM	1	24	20.81	20.84	20.83	0.1517	0.1528	0.1524
5	16QAM	12	0	20.04	20.00	19.94	0.1271	0.1259	0.1242
5	16QAM	12	7	20.06	20.02	19.93	0.1276	0.1265	0.1239
5	16QAM	12	13	19.93	19.90	19.86	0.1239	0.1230	0.1219
5	16QAM	25	0	20.01	20.00	19.96	0.1262	0.1259	0.1247
5	64QAM	1	0	19.99	20.02	19.96	0.1256	0.1265	0.1247
5	64QAM	1	12	19.98	19.91	19.85	0.1253	0.1233	0.1216
5	64QAM	1	24	19.88	19.78	19.76	0.1225	0.1197	0.1191
5	64QAM	12	0	19.09	19.03	19.05	0.1021	0.1007	0.1012
5	64QAM	12	7	19.15	19.02	19.04	0.1035	0.1005	0.1009
5	64QAM	12	13	19.05	18.99	18.90	0.1012	0.0998	0.0977
5	64QAM	25	0	19.02	18.96	18.95	0.1005	0.0991	0.0989
5	256QAM	1	0	16.81	16.96	16.88	0.0604	0.0625	0.0614
5	256QAM	1	12	16.93	17.00	17.03	0.0621	0.0631	0.0635
5	256QAM	1	24	16.64	16.77	16.62	0.0581	0.0598	0.0578
5	256QAM	12	0	16.99	16.89	16.93	0.0630	0.0615	0.0621
5	256QAM	12	7	16.95	16.95	16.87	0.0624	0.0624	0.0612
5	256QAM	12	13	16.66	16.70	16.65	0.0583	0.0589	0.0582
5	256QAM	25	0	16.83	16.88	16.88	0.0607	0.0614	0.0614

LTE Band 43:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				43690	44090	44490			
Frequency (MHz)				3610	3650	3690	L	M	H
20	QPSK	1	0	21.74	21.77	21.76	0.1879	0.1892	0.1888
20	QPSK	1	49	21.72	21.68	21.73	0.1871	0.1854	0.1875
20	QPSK	1	99	21.60	21.65	21.61	0.1820	0.1841	0.1824
20	QPSK	50	0	21.01	21.01	21.04	0.1589	0.1589	0.1600
20	QPSK	50	24	20.98	20.98	21.03	0.1578	0.1578	0.1596
20	QPSK	50	50	20.92	20.88	20.93	0.1556	0.1542	0.1560
20	QPSK	100	0	20.95	20.92	20.96	0.1567	0.1556	0.1570
20	16QAM	1	0	20.98	20.96	20.98	0.1578	0.1570	0.1578
20	16QAM	1	49	20.93	21.03	20.91	0.1560	0.1596	0.1552
20	16QAM	1	99	20.83	20.76	20.74	0.1524	0.1500	0.1493

20	16QAM	50	0	20.02	19.99	19.99	0.1265	0.1256	0.1256
20	16QAM	50	24	20.04	19.99	19.99	0.1271	0.1256	0.1256
20	16QAM	50	50	19.96	19.90	19.94	0.1247	0.1230	0.1242
20	16QAM	100	0	19.95	19.95	19.96	0.1245	0.1245	0.1247
20	64QAM	1	0	19.99	19.98	19.98	0.1256	0.1253	0.1253
20	64QAM	1	49	19.93	19.94	19.96	0.1239	0.1242	0.1247
20	64QAM	1	99	19.71	19.80	19.71	0.1178	0.1202	0.1178
20	64QAM	50	0	19.07	19.05	19.08	0.1016	0.1012	0.1019
20	64QAM	50	24	19.06	19.02	19.04	0.1014	0.1005	0.1009
20	64QAM	50	50	18.98	18.94	18.98	0.0995	0.0986	0.0995
20	64QAM	100	0	18.93	18.91	18.92	0.0984	0.0979	0.0982
20	256QAM	1	0	16.98	16.92	16.93	0.0628	0.0619	0.0621
20	256QAM	1	49	16.98	17.14	17.11	0.0628	0.0652	0.0647
20	256QAM	1	99	16.76	16.84	16.81	0.0597	0.0608	0.0604
20	256QAM	50	0	16.91	16.92	16.88	0.0618	0.0619	0.0614
20	256QAM	50	24	16.95	17.00	17.15	0.0624	0.0631	0.0653
20	256QAM	50	50	16.79	16.67	16.77	0.0601	0.0585	0.0598
20	256QAM	100	0	16.99	16.98	17.05	0.0630	0.0628	0.0638
Channel				43665	44090	44515	EIRP(W)		
Frequency (MHz)				3607.5	3650	3692.5	L	M	H
15	QPSK	1	0	21.66	21.75	21.73	0.1845	0.1884	0.1875
15	QPSK	1	37	21.68	21.60	21.67	0.1854	0.1820	0.1849
15	QPSK	1	74	21.53	21.58	21.52	0.1791	0.1811	0.1786
15	QPSK	36	0	20.95	20.94	20.96	0.1567	0.1563	0.1570
15	QPSK	36	20	20.91	20.93	21.02	0.1552	0.1560	0.1592
15	QPSK	36	39	20.91	20.79	20.87	0.1552	0.1510	0.1538
15	QPSK	75	0	20.88	20.91	20.89	0.1542	0.1552	0.1545
15	16QAM	1	0	20.96	20.89	20.92	0.1570	0.1545	0.1556
15	16QAM	1	37	20.86	20.97	20.88	0.1535	0.1574	0.1542
15	16QAM	1	74	20.81	20.67	20.64	0.1517	0.1469	0.1459
15	16QAM	36	0	19.97	19.98	19.92	0.1250	0.1253	0.1236
15	16QAM	36	20	19.95	19.91	19.98	0.1245	0.1233	0.1253
15	16QAM	36	39	19.94	19.83	19.92	0.1242	0.1211	0.1236
15	16QAM	75	0	19.93	19.88	19.92	0.1239	0.1225	0.1236
15	64QAM	1	0	19.95	19.88	19.96	0.1245	0.1225	0.1247
15	64QAM	1	37	19.83	19.85	19.94	0.1211	0.1216	0.1242
15	64QAM	1	74	19.63	19.72	19.67	0.1156	0.1180	0.1167
15	64QAM	36	0	18.97	18.98	18.99	0.0993	0.0995	0.0998
15	64QAM	36	20	19.05	18.95	18.96	0.1012	0.0989	0.0991
15	64QAM	36	39	18.89	18.88	18.88	0.0975	0.0973	0.0973
15	64QAM	75	0	18.86	18.84	18.86	0.0968	0.0964	0.0968
15	256QAM	1	0	16.97	16.91	16.92	0.0627	0.0618	0.0619
15	256QAM	1	37	16.95	17.04	17.07	0.0624	0.0637	0.0641
15	256QAM	1	74	16.68	16.76	16.78	0.0586	0.0597	0.0600
15	256QAM	36	0	16.83	16.87	16.82	0.0607	0.0612	0.0605
15	256QAM	36	20	16.93	16.96	17.13	0.0621	0.0625	0.0650
15	256QAM	36	39	16.72	16.65	16.70	0.0592	0.0582	0.0589
15	256QAM	75	0	16.97	16.88	16.96	0.0627	0.0614	0.0625
Channel				43640	44090	44540	EIRP(W)		
Frequency (MHz)				3605	3650	3695	L	M	H

10	QPSK	1	0	21.68	21.67	21.67	0.1854	0.1849	0.1849
10	QPSK	1	25	21.62	21.61	21.64	0.1828	0.1824	0.1837
10	QPSK	1	49	21.55	21.57	21.51	0.1799	0.1807	0.1782
10	QPSK	25	0	20.96	20.96	20.94	0.1570	0.1570	0.1563
10	QPSK	25	12	20.95	20.89	20.96	0.1567	0.1545	0.1570
10	QPSK	25	25	20.85	20.84	20.86	0.1531	0.1528	0.1535
10	QPSK	50	0	20.87	20.87	20.88	0.1538	0.1538	0.1542
10	16QAM	1	0	20.93	20.94	20.92	0.1560	0.1563	0.1556
10	16QAM	1	25	20.83	21.00	20.87	0.1524	0.1585	0.1538
10	16QAM	1	49	20.81	20.72	20.69	0.1517	0.1486	0.1476
10	16QAM	25	0	19.94	19.92	19.91	0.1242	0.1236	0.1233
10	16QAM	25	12	20.02	19.91	19.91	0.1265	0.1233	0.1233
10	16QAM	25	25	19.91	19.84	19.88	0.1233	0.1213	0.1225
10	16QAM	50	0	19.93	19.85	19.88	0.1239	0.1216	0.1225
10	64QAM	1	0	19.92	19.89	19.88	0.1236	0.1227	0.1225
10	64QAM	1	25	19.84	19.90	19.88	0.1213	0.1230	0.1225
10	64QAM	1	49	19.68	19.78	19.67	0.1169	0.1197	0.1167
10	64QAM	25	0	19.00	19.01	18.99	0.1000	0.1002	0.0998
10	64QAM	25	12	19.03	18.94	19.01	0.1007	0.0986	0.1002
10	64QAM	25	25	18.93	18.87	18.93	0.0984	0.0971	0.0984
10	64QAM	50	0	18.91	18.83	18.90	0.0979	0.0962	0.0977
10	256QAM	1	0	16.96	16.84	16.86	0.0625	0.0608	0.0611
10	256QAM	1	25	16.91	17.13	17.08	0.0618	0.0650	0.0643
10	256QAM	1	49	16.69	16.74	16.80	0.0587	0.0594	0.0603
10	256QAM	25	0	16.88	16.87	16.87	0.0614	0.0612	0.0612
10	256QAM	25	12	16.88	16.92	17.14	0.0614	0.0619	0.0652
10	256QAM	25	25	16.74	16.58	16.75	0.0594	0.0573	0.0596
10	256QAM	50	0	16.98	16.93	16.98	0.0628	0.0621	0.0628
Channel				43615	44090	44565	EIRP(W)		
Frequency (MHz)				3602.5	3650	3697.5	L	M	H
5	QPSK	1	0	21.64	21.67	21.74	0.1837	0.1849	0.1879
5	QPSK	1	12	21.70	21.65	21.65	0.1862	0.1841	0.1841
5	QPSK	1	24	21.50	21.58	21.57	0.1778	0.1811	0.1807
5	QPSK	12	0	20.95	20.98	20.99	0.1567	0.1578	0.1581
5	QPSK	12	7	20.93	20.90	20.95	0.1560	0.1549	0.1567
5	QPSK	12	13	20.88	20.84	20.88	0.1542	0.1528	0.1542
5	QPSK	25	0	20.86	20.89	20.90	0.1535	0.1545	0.1549
5	16QAM	1	0	20.91	20.89	20.91	0.1552	0.1545	0.1552
5	16QAM	1	12	20.88	21.00	20.81	0.1542	0.1585	0.1517
5	16QAM	1	24	20.81	20.67	20.69	0.1517	0.1469	0.1476
5	16QAM	12	0	19.93	19.89	19.95	0.1239	0.1227	0.1245
5	16QAM	12	7	19.99	19.89	19.90	0.1256	0.1227	0.1230
5	16QAM	12	13	19.93	19.88	19.88	0.1239	0.1225	0.1225
5	16QAM	25	0	19.85	19.85	19.92	0.1216	0.1216	0.1236
5	64QAM	1	0	19.93	19.88	19.94	0.1239	0.1225	0.1242
5	64QAM	1	12	19.88	19.92	19.89	0.1225	0.1236	0.1227
5	64QAM	1	24	19.67	19.77	19.69	0.1167	0.1194	0.1172
5	64QAM	12	0	19.03	18.96	19.05	0.1007	0.0991	0.1012
5	64QAM	12	7	19.05	18.94	18.99	0.1012	0.0986	0.0998
5	64QAM	12	13	18.90	18.93	18.96	0.0977	0.0984	0.0991

5	64QAM	25	0	18.85	18.86	18.88	0.0966	0.0968	0.0973
5	256QAM	1	0	16.91	16.86	16.85	0.0618	0.0611	0.0610
5	256QAM	1	12	16.94	17.07	17.08	0.0622	0.0641	0.0643
5	256QAM	1	24	16.68	16.79	16.72	0.0586	0.0601	0.0592
5	256QAM	12	0	16.86	16.85	16.87	0.0611	0.0610	0.0612
5	256QAM	12	7	16.88	16.95	17.13	0.0614	0.0624	0.0650
5	256QAM	12	13	16.72	16.58	16.68	0.0592	0.0573	0.0586
5	256QAM	25	0	16.96	16.88	16.96	0.0625	0.0614	0.0625

LTE Band 48:

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	EIRP(W)		
Channel				55340	55990	56640			
Frequency (MHz)				3560	3625	3690	L	M	H
20	QPSK	1	0	21.71	21.74	21.72	0.1866	0.1879	0.1871
20	QPSK	1	49	21.79	21.82	21.78	0.1901	0.1914	0.1897
20	QPSK	1	99	21.67	21.75	21.77	0.1849	0.1884	0.1892
20	QPSK	50	0	20.69	20.72	20.62	0.1476	0.1486	0.1452
20	QPSK	50	24	20.51	20.64	20.56	0.1416	0.1459	0.1432
20	QPSK	50	50	20.67	20.50	20.49	0.1469	0.1413	0.1409
20	QPSK	100	0	20.57	20.49	20.45	0.1435	0.1409	0.1396
20	16QAM	1	0	20.72	20.67	20.72	0.1486	0.1469	0.1486
20	16QAM	1	49	20.73	20.66	20.57	0.1489	0.1466	0.1435
20	16QAM	1	99	20.59	20.75	20.64	0.1442	0.1496	0.1459
20	16QAM	50	0	19.64	19.76	19.59	0.1159	0.1191	0.1146
20	16QAM	50	24	19.56	19.52	19.43	0.1138	0.1127	0.1104
20	16QAM	50	50	19.59	19.55	19.56	0.1146	0.1135	0.1138
20	16QAM	100	0	19.55	19.55	19.55	0.1135	0.1135	0.1135
20	64QAM	1	0	19.81	19.67	19.77	0.1205	0.1167	0.1194
20	64QAM	1	49	19.64	19.61	19.57	0.1159	0.1151	0.1140
20	64QAM	1	99	19.60	19.68	19.59	0.1148	0.1169	0.1146
20	64QAM	50	0	18.64	18.67	18.53	0.0920	0.0927	0.0897
20	64QAM	50	24	18.69	18.61	18.56	0.0931	0.0914	0.0904
20	64QAM	50	50	18.48	18.65	18.52	0.0887	0.0923	0.0895
20	64QAM	100	0	18.39	18.55	18.46	0.0869	0.0902	0.0883
20	256QAM	1	0	16.45	16.56	16.53	0.0556	0.0570	0.0566
20	256QAM	1	49	16.45	16.42	16.48	0.0556	0.0552	0.0560
20	256QAM	1	99	16.48	16.53	16.56	0.0560	0.0566	0.0570
20	256QAM	50	0	16.45	16.57	16.63	0.0556	0.0571	0.0579
20	256QAM	50	24	16.40	16.53	16.53	0.0550	0.0566	0.0566
20	256QAM	50	50	16.56	16.57	16.53	0.0570	0.0571	0.0566
20	256QAM	100	0	16.42	16.46	16.53	0.0552	0.0557	0.0566
Channel				55315	55990	56665	EIRP(W)		
Frequency (MHz)				3557.5	3625	3692.5	L	M	H
15	QPSK	1	0	21.64	21.62	21.62	0.1837	0.1828	0.1828
15	QPSK	1	37	21.68	21.67	21.71	0.1854	0.1849	0.1866
15	QPSK	1	74	21.59	21.65	21.67	0.1816	0.1841	0.1849
15	QPSK	36	0	20.59	20.62	20.52	0.1442	0.1452	0.1419
15	QPSK	36	20	20.44	20.52	20.50	0.1393	0.1419	0.1413

15	QPSK	36	39	20.53	20.37	20.37	0.1422	0.1371	0.1371
15	QPSK	75	0	20.45	20.36	20.33	0.1396	0.1368	0.1358
15	16QAM	1	0	20.59	20.56	20.60	0.1442	0.1432	0.1445
15	16QAM	1	37	20.59	20.60	20.43	0.1442	0.1445	0.1390
15	16QAM	1	74	20.50	20.62	20.51	0.1413	0.1452	0.1416
15	16QAM	36	0	19.55	19.66	19.51	0.1135	0.1164	0.1125
15	16QAM	36	20	19.41	19.42	19.32	0.1099	0.1102	0.1076
15	16QAM	36	39	19.46	19.43	19.41	0.1112	0.1104	0.1099
15	16QAM	75	0	19.42	19.49	19.40	0.1102	0.1119	0.1096
15	64QAM	1	0	19.75	19.59	19.69	0.1189	0.1146	0.1172
15	64QAM	1	37	19.51	19.47	19.47	0.1125	0.1114	0.1114
15	64QAM	1	74	19.53	19.59	19.45	0.1130	0.1146	0.1109
15	64QAM	36	0	18.58	18.61	18.46	0.0908	0.0914	0.0883
15	64QAM	36	20	18.57	18.52	18.49	0.0906	0.0895	0.0889
15	64QAM	36	39	18.39	18.52	18.39	0.0869	0.0895	0.0869
15	64QAM	75	0	18.32	18.45	18.39	0.0855	0.0881	0.0869
15	256QAM	1	0	16.37	16.46	16.40	0.0546	0.0557	0.0550
15	256QAM	1	37	16.36	16.30	16.33	0.0545	0.0537	0.0541
15	256QAM	1	74	16.42	16.41	16.41	0.0552	0.0551	0.0551
15	256QAM	36	0	16.34	16.42	16.56	0.0542	0.0552	0.0570
15	256QAM	36	20	16.26	16.46	16.44	0.0532	0.0557	0.0555
15	256QAM	36	39	16.48	16.45	16.38	0.0560	0.0556	0.0547
15	256QAM	75	0	16.36	16.34	16.44	0.0545	0.0542	0.0555
Channel				55290	55990	56690	EIRP(W)		
Frequency (MHz)				3555	3625	3695	L	M	H
10	QPSK	1	0	21.64	21.63	21.60	0.1837	0.1832	0.1820
10	QPSK	1	25	21.72	21.75	21.68	0.1871	0.1884	0.1854
10	QPSK	1	49	21.54	21.63	21.70	0.1795	0.1832	0.1862
10	QPSK	25	0	20.63	20.64	20.47	0.1455	0.1459	0.1403
10	QPSK	25	12	20.44	20.50	20.46	0.1393	0.1413	0.1400
10	QPSK	25	25	20.58	20.42	20.38	0.1439	0.1387	0.1374
10	QPSK	50	0	20.51	20.41	20.36	0.1416	0.1384	0.1368
10	16QAM	1	0	20.61	20.52	20.66	0.1449	0.1419	0.1466
10	16QAM	1	25	20.62	20.56	20.44	0.1452	0.1432	0.1393
10	16QAM	1	49	20.49	20.60	20.53	0.1409	0.1445	0.1422
10	16QAM	25	0	19.53	19.67	19.47	0.1130	0.1167	0.1114
10	16QAM	25	12	19.44	19.46	19.33	0.1107	0.1112	0.1079
10	16QAM	25	25	19.48	19.47	19.45	0.1117	0.1114	0.1109
10	16QAM	50	0	19.41	19.42	19.46	0.1099	0.1102	0.1112
10	64QAM	1	0	19.74	19.56	19.71	0.1186	0.1138	0.1178
10	64QAM	1	25	19.51	19.47	19.48	0.1125	0.1114	0.1117
10	64QAM	1	49	19.50	19.62	19.46	0.1122	0.1153	0.1112
10	64QAM	25	0	18.52	18.53	18.39	0.0895	0.0897	0.0869
10	64QAM	25	12	18.60	18.50	18.48	0.0912	0.0891	0.0887
10	64QAM	25	25	18.36	18.51	18.40	0.0863	0.0893	0.0871
10	64QAM	50	0	18.26	18.45	18.40	0.0843	0.0881	0.0871
10	256QAM	1	0	16.35	16.42	16.42	0.0543	0.0552	0.0552
10	256QAM	1	25	16.38	16.29	16.36	0.0547	0.0536	0.0545
10	256QAM	1	49	16.33	16.45	16.45	0.0541	0.0556	0.0556
10	256QAM	25	0	16.34	16.47	16.53	0.0542	0.0558	0.0566

10	256QAM	25	12	16.32	16.40	16.39	0.0540	0.0550	0.0548
10	256QAM	25	25	16.44	16.45	16.47	0.0555	0.0556	0.0558
10	256QAM	50	0	16.27	16.31	16.47	0.0533	0.0538	0.0558
Channel				55265	55990	56715	EIRP(W)		
Frequency (MHz)				3552.5	3625	3697.5	L	M	H
5	QPSK	1	0	21.59	21.57	21.64	0.1816	0.1807	0.1837
5	QPSK	1	12	21.68	21.73	21.72	0.1854	0.1875	0.1871
5	QPSK	1	24	21.55	21.67	21.71	0.1799	0.1849	0.1866
5	QPSK	12	0	20.62	20.57	20.54	0.1452	0.1435	0.1426
5	QPSK	12	7	20.41	20.57	20.48	0.1384	0.1435	0.1406
5	QPSK	12	13	20.59	20.37	20.35	0.1442	0.1371	0.1365
5	QPSK	25	0	20.47	20.39	20.31	0.1403	0.1377	0.1352
5	16QAM	1	0	20.62	20.59	20.59	0.1452	0.1442	0.1442
5	16QAM	1	12	20.62	20.54	20.51	0.1452	0.1426	0.1416
5	16QAM	1	24	20.46	20.61	20.54	0.1400	0.1449	0.1426
5	16QAM	12	0	19.56	19.69	19.49	0.1138	0.1172	0.1119
5	16QAM	12	7	19.43	19.41	19.28	0.1104	0.1099	0.1067
5	16QAM	12	13	19.45	19.48	19.43	0.1109	0.1117	0.1104
5	16QAM	25	0	19.41	19.49	19.47	0.1099	0.1119	0.1114
5	64QAM	1	0	19.71	19.53	19.65	0.1178	0.1130	0.1161
5	64QAM	1	12	19.50	19.49	19.45	0.1122	0.1119	0.1109
5	64QAM	1	24	19.51	19.56	19.51	0.1125	0.1138	0.1125
5	64QAM	12	0	18.56	18.53	18.45	0.0904	0.0897	0.0881
5	64QAM	12	7	18.62	18.50	18.48	0.0916	0.0891	0.0887
5	64QAM	12	13	18.37	18.56	18.45	0.0865	0.0904	0.0881
5	64QAM	25	0	18.25	18.42	18.39	0.0841	0.0875	0.0869
5	256QAM	1	0	16.38	16.46	16.39	0.0547	0.0557	0.0548
5	256QAM	1	12	16.30	16.36	16.36	0.0537	0.0545	0.0545
5	256QAM	1	24	16.39	16.41	16.49	0.0548	0.0551	0.0561
5	256QAM	12	0	16.32	16.42	16.56	0.0540	0.0552	0.0570
5	256QAM	12	7	16.34	16.38	16.39	0.0542	0.0547	0.0548
5	256QAM	12	13	16.45	16.44	16.47	0.0556	0.0555	0.0558
5	256QAM	25	0	16.27	16.33	16.39	0.0533	0.0541	0.0548

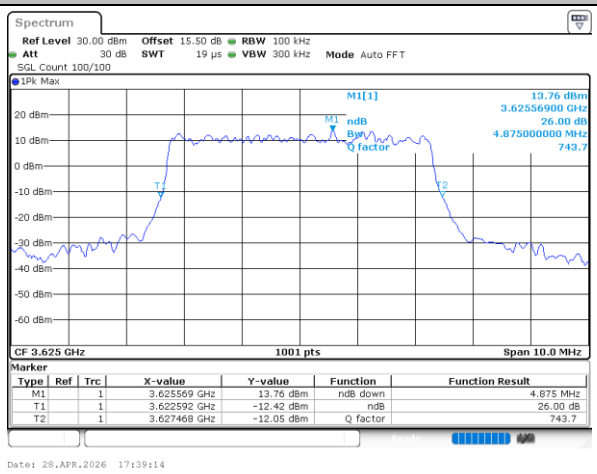
LTE Band 48

26dB Bandwidth

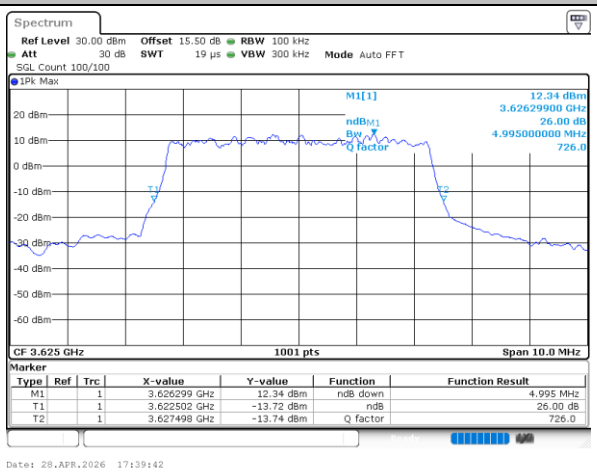
Mode	LTE Band 48 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.88	5.00	9.65	9.87	14.36	14.60	18.66	19.14

LTE Band 48

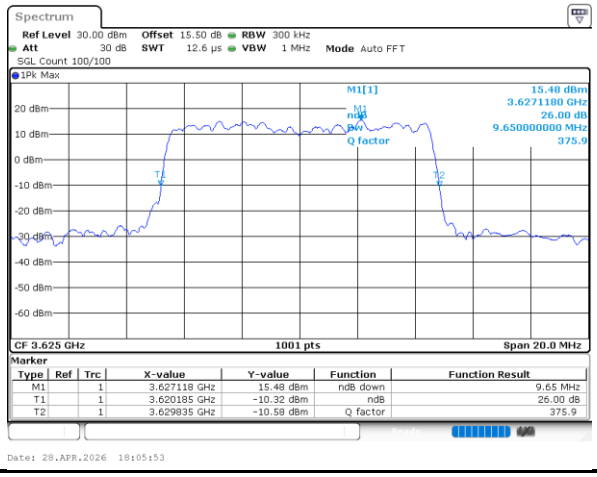
Middle Channel / 5MHz / QPSK



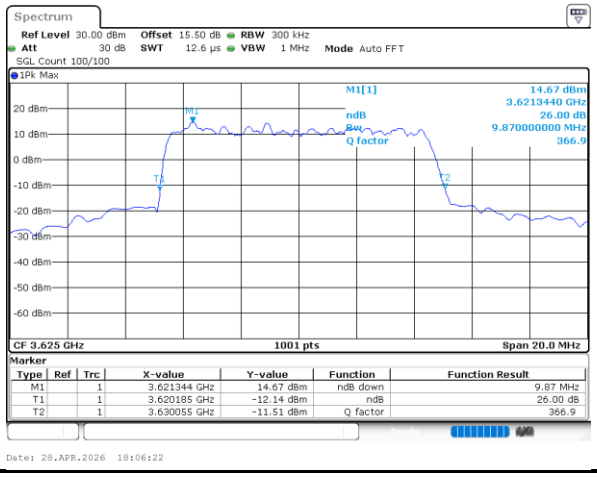
Middle Channel / 5MHz / 16QAM



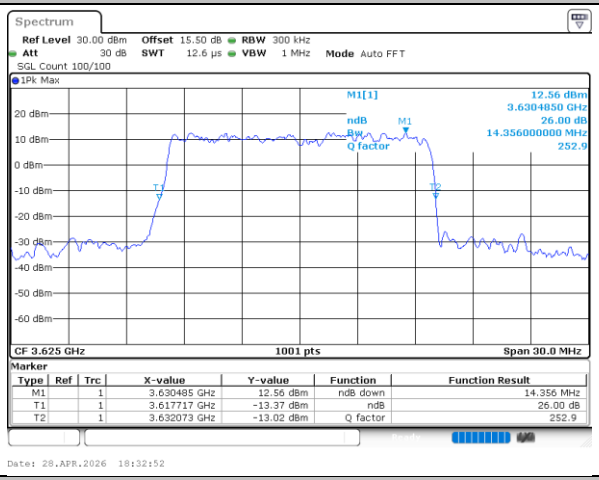
Middle Channel / 10MHz / QPSK



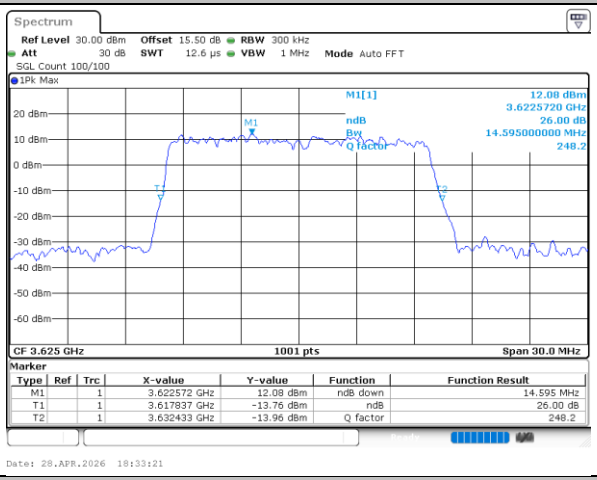
Middle Channel / 10MHz / 16QAM



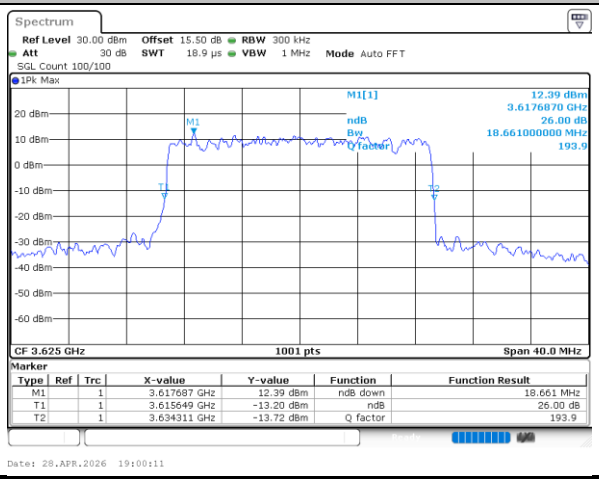
Middle Channel / 15MHz / QPSK



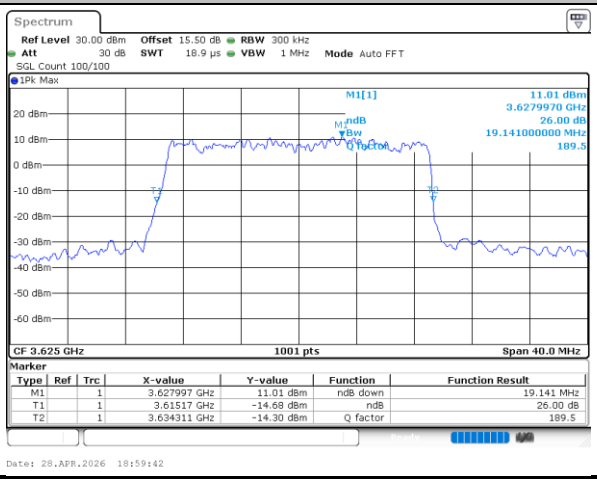
Middle Channel / 15MHz / 16QAM



Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM

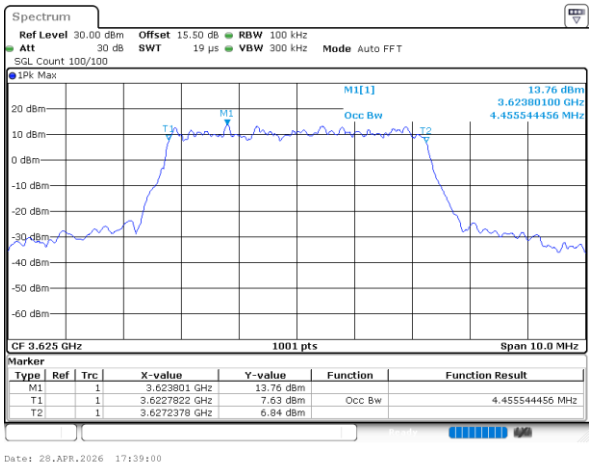


Occupied Bandwidth

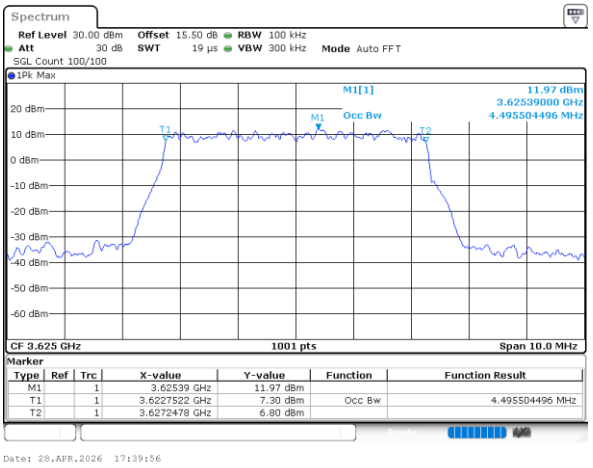
Mode	LTE Band 48 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.46	4.50	9.05	9.11	13.40	13.43	17.90	17.86

LTE Band 48

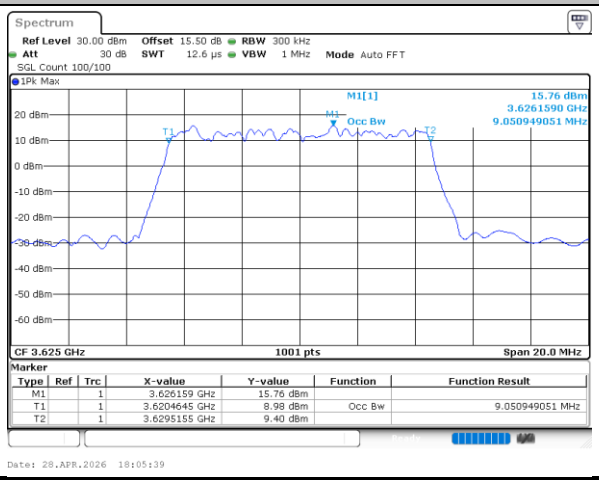
Middle Channel / 5MHz / QPSK



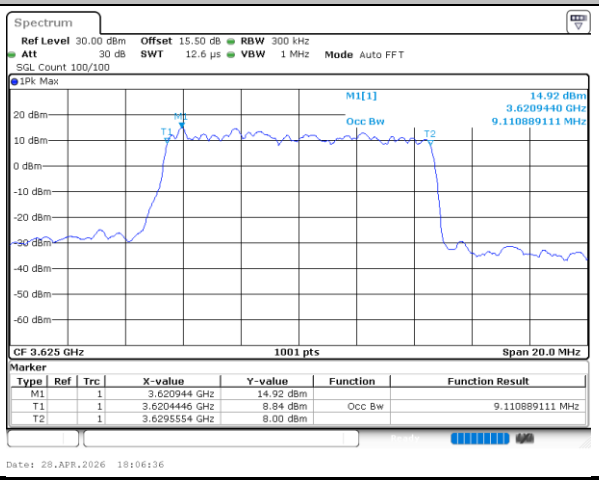
Middle Channel / 5MHz / 16QAM



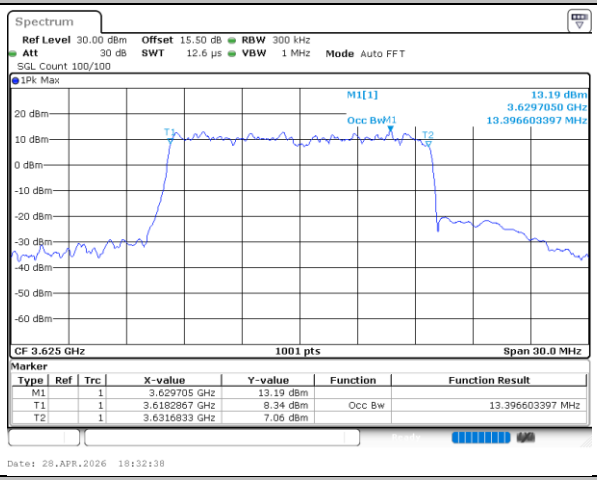
Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

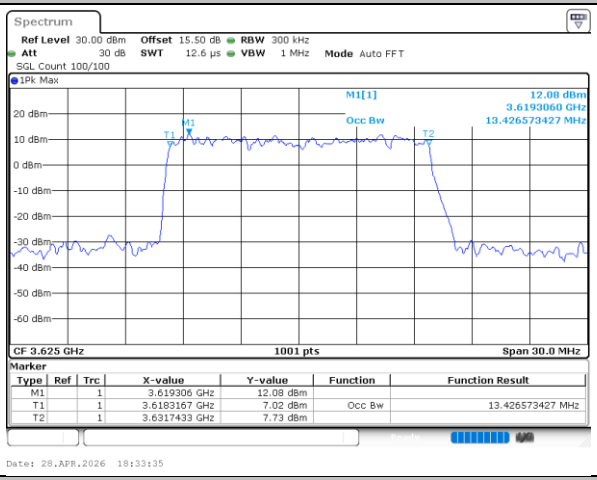


Middle Channel / 15MHz / QPSK



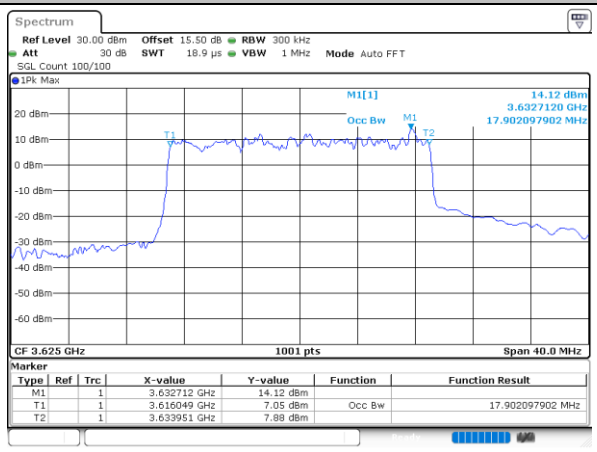
Date: 28.APR.2026 18:32:38

Middle Channel / 15MHz / 16QAM



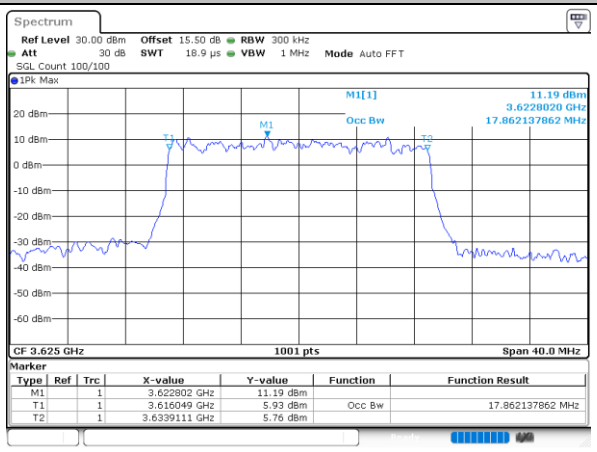
Date: 28.APR.2026 18:33:35

Middle Channel / 20MHz / QPSK



Date: 28.APR.2026 19:00:25

Middle Channel / 20MHz / 16QAM



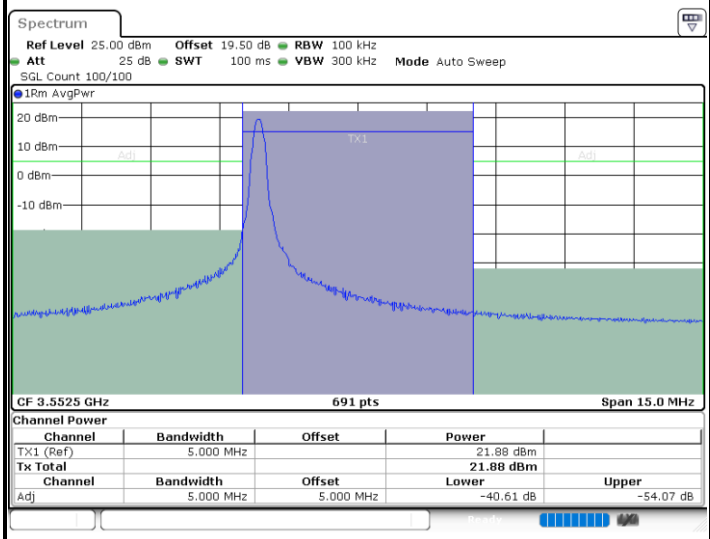
Date: 28.APR.2026 18:59:29

ACLR

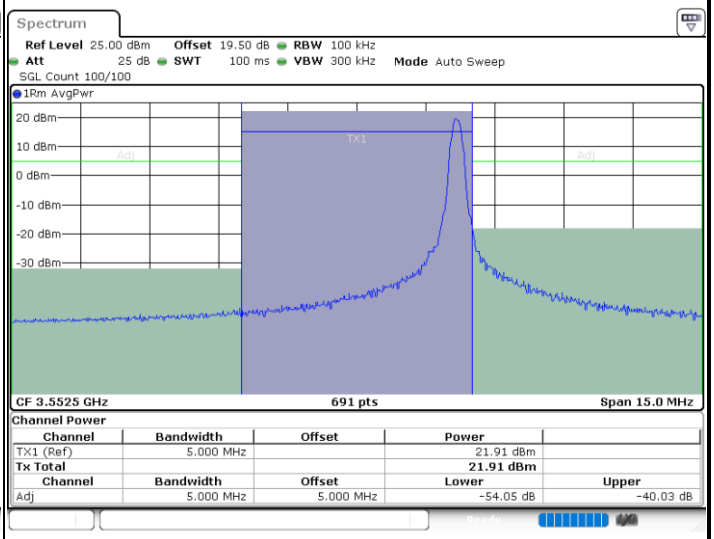
LTE Band 48 / 5MHz

QPSK

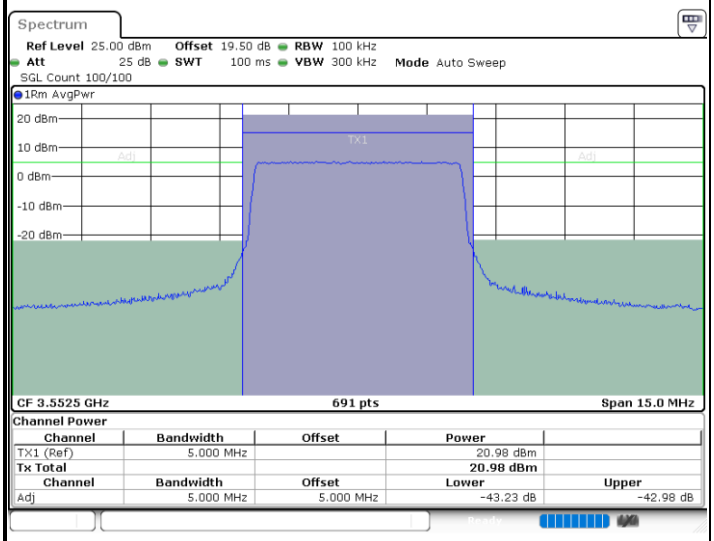
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / FullRB



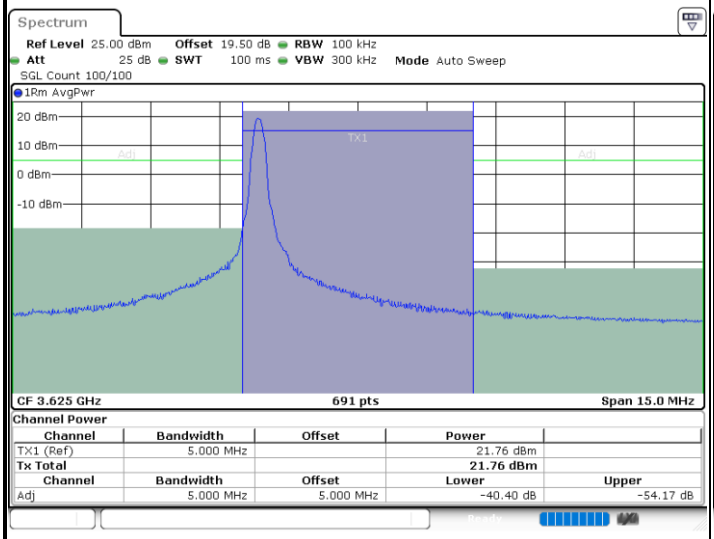
N/A

/

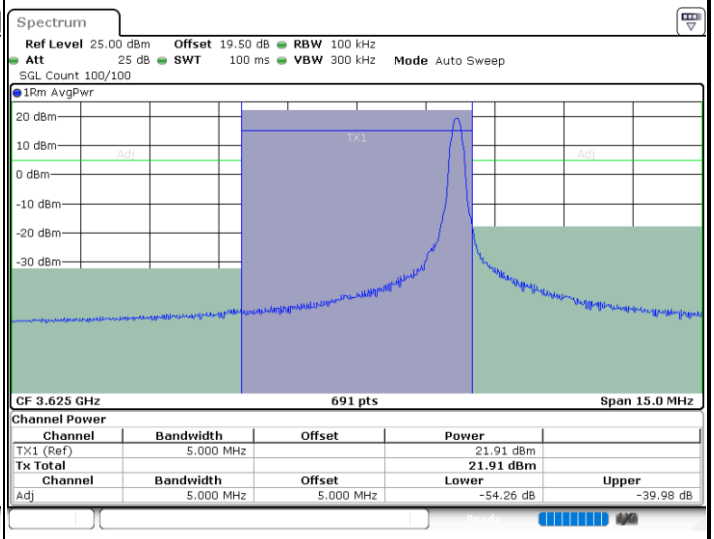
LTE Band 48 / 5MHz

QPSK

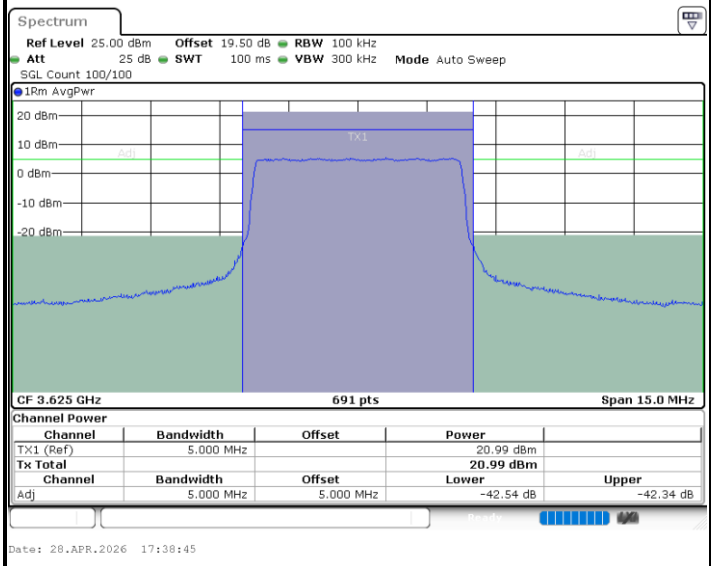
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / FullRB



N/A

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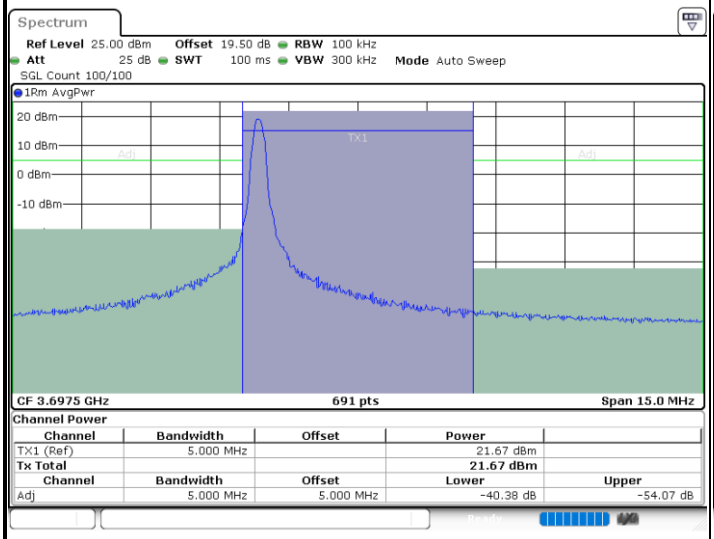
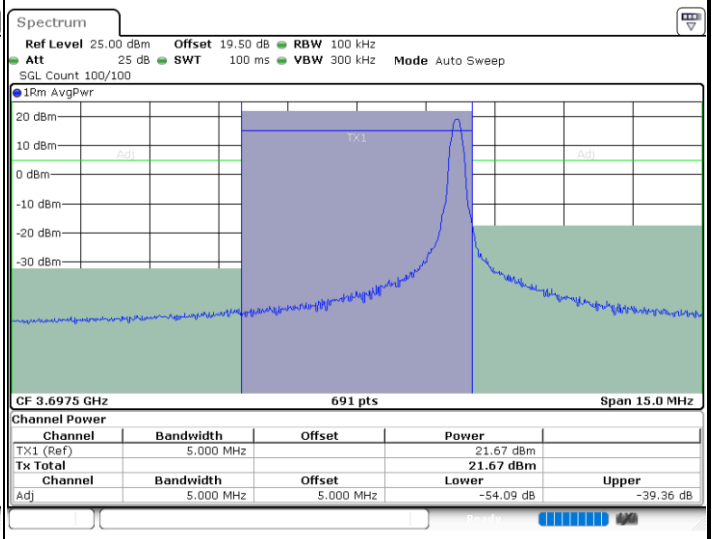
LTE Band 48 / 5MHz

QPSK

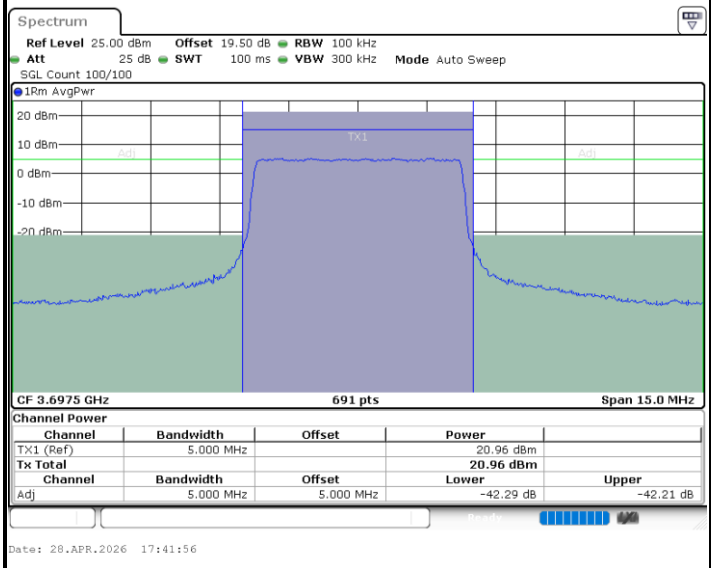
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / FullRB



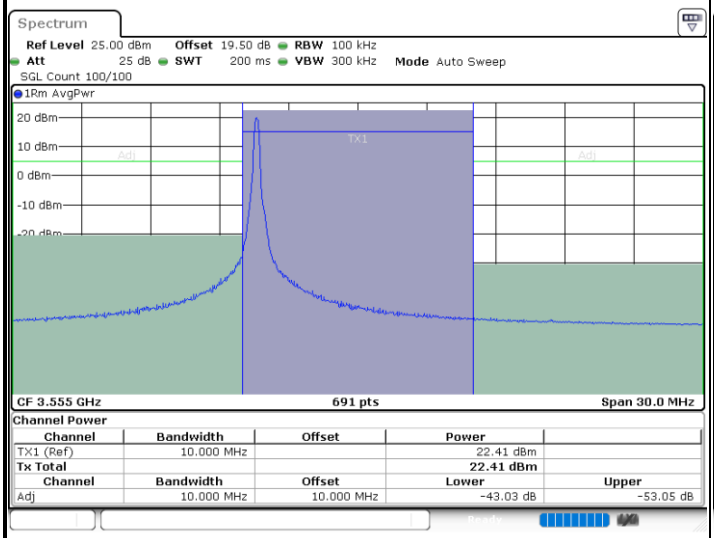
N/A

/

LTE Band 48 / 10MHz

QPSK

Lowest Channel / 1RB0



Channel Power

Channel	Bandwidth	Offset	Power	
TX1 (Ref)	10.000 MHz		22.41 dBm	
Tx Total			22.41 dBm	
Channel	Bandwidth	Offset	Lower	Upper
Adj	10.000 MHz	10.000 MHz	-43.03 dB	-53.05 dB

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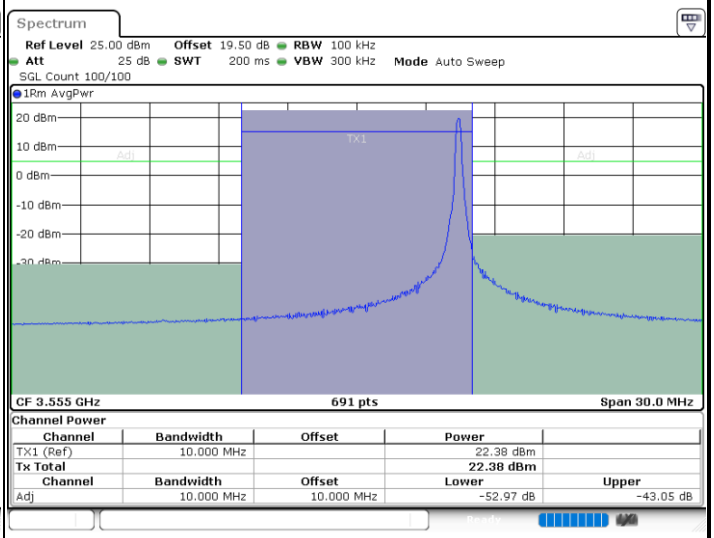
Lowest Channel / 1RBmax

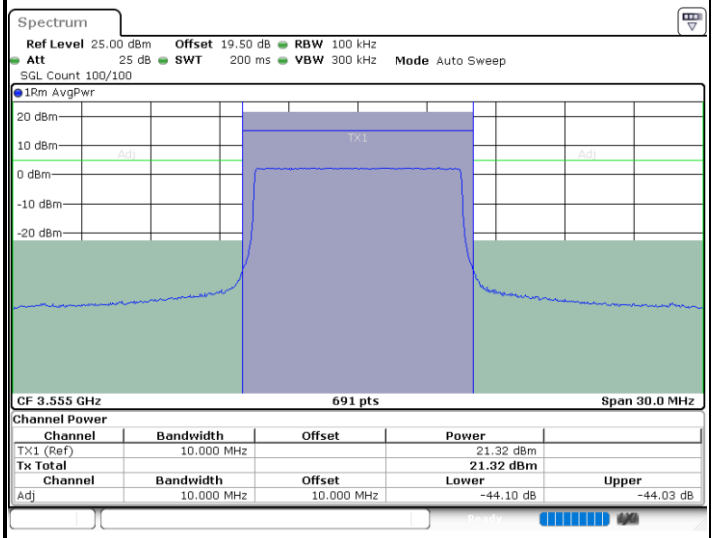


Channel Power

Channel	Bandwidth	Offset	Power	
TX1 (Ref)	10.000 MHz		22.38 dBm	
Tx Total			22.38 dBm	
Channel	Bandwidth	Offset	Lower	Upper
Adj	10.000 MHz	10.000 MHz	-52.97 dB	-43.05 dB

Date: 28.APR.2026 17:54:28

Lowest Channel / FullRB



Channel Power

Channel	Bandwidth	Offset	Power	
TX1 (Ref)	10.000 MHz		21.32 dBm	
Tx Total			21.32 dBm	
Channel	Bandwidth	Offset	Lower	Upper
Adj	10.000 MHz	10.000 MHz	-44.10 dB	-44.03 dB

Date: 28.APR.2026 17:50:23

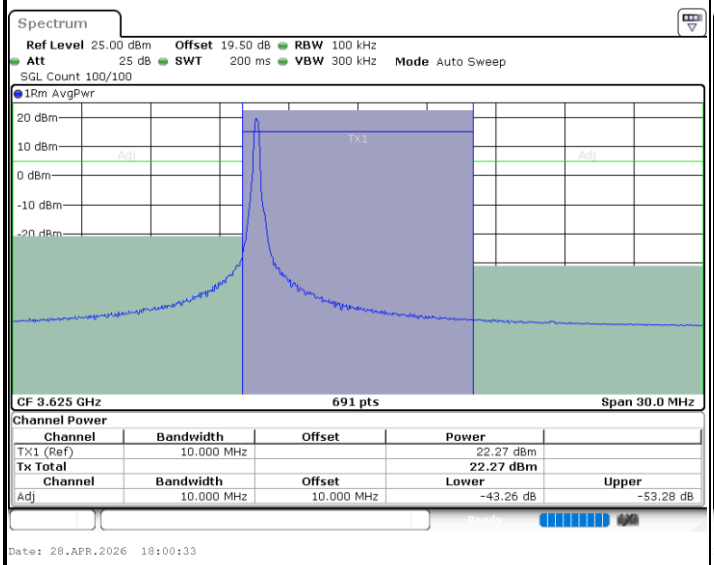
N/A

/

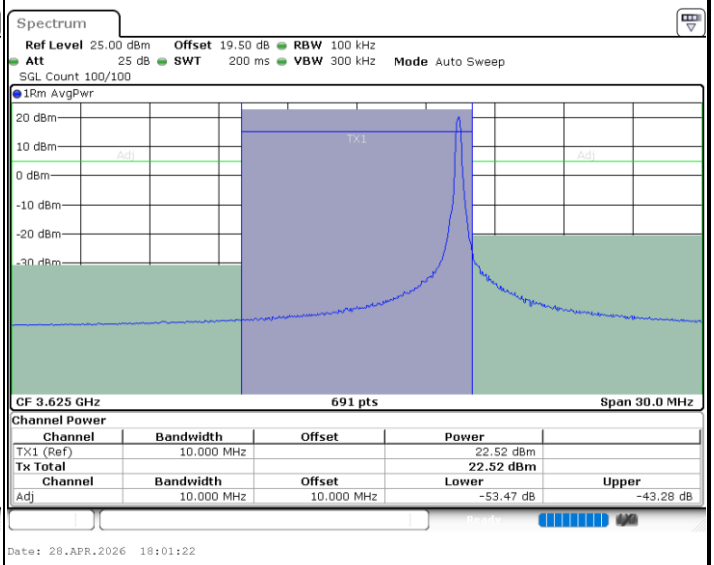
LTE Band 48 / 10MHz

QPSK

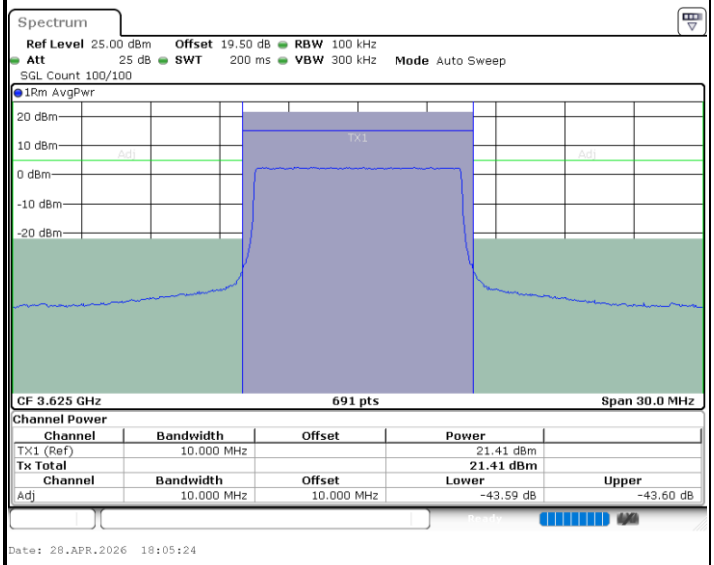
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / FullRB



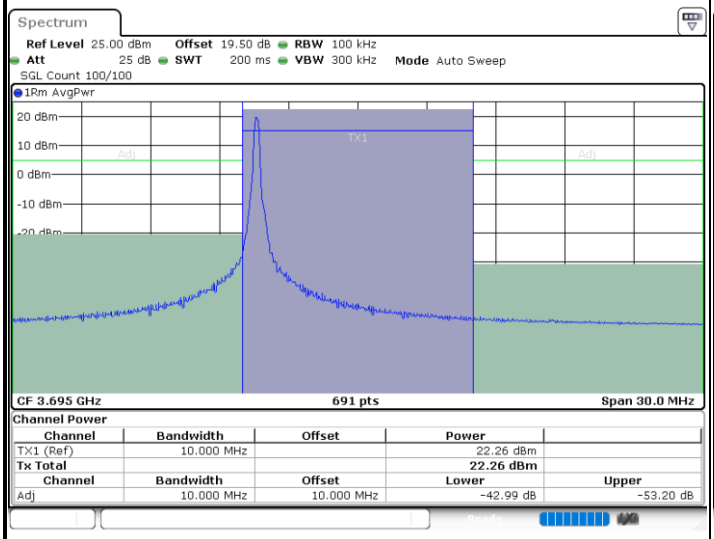
N/A

/

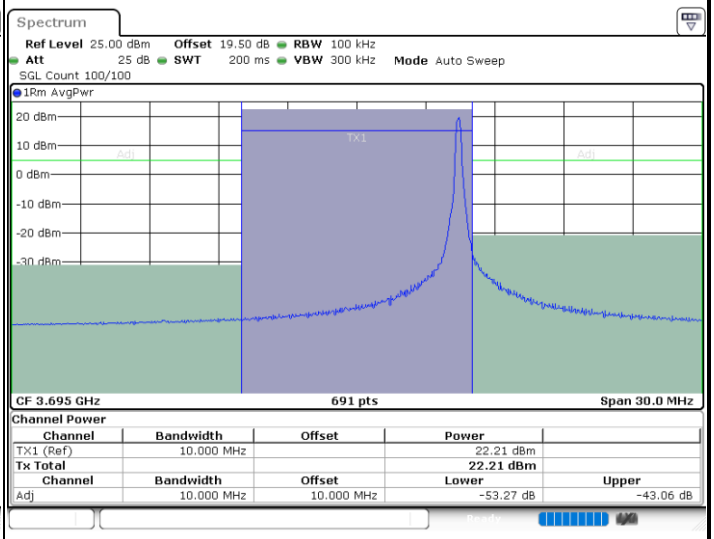
LTE Band 48 / 10MHz

QPSK

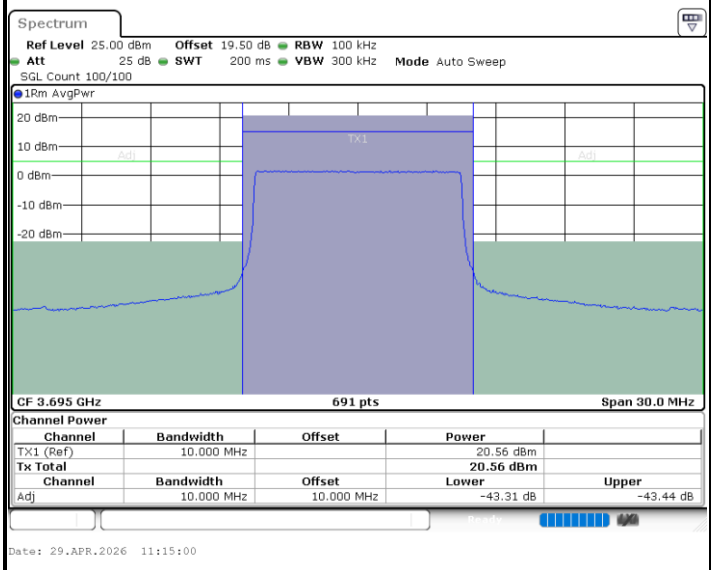
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / FullRB



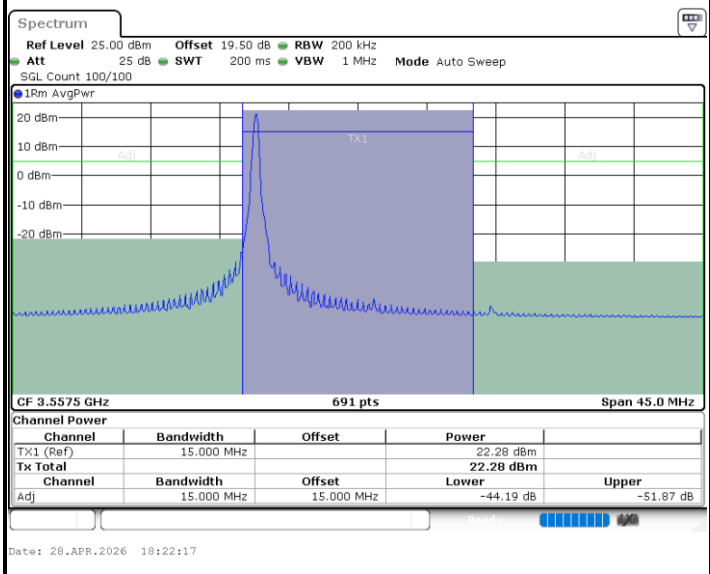
N/A

/

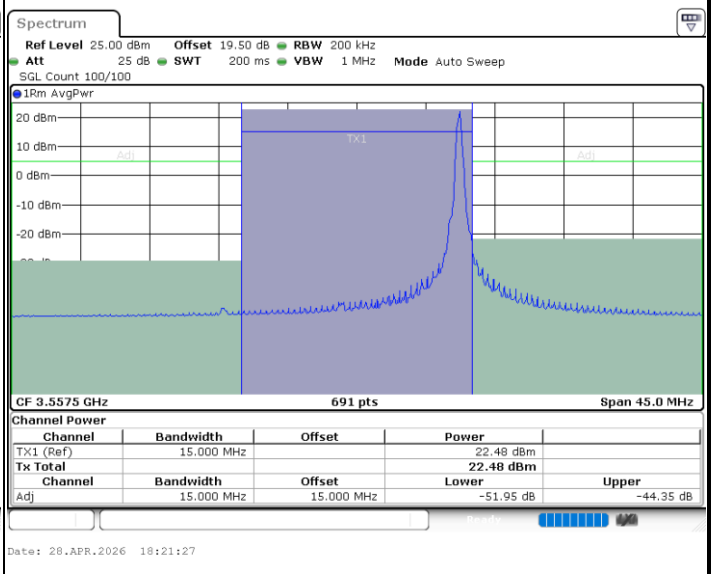
LTE Band 48 / 15MHz

QPSK

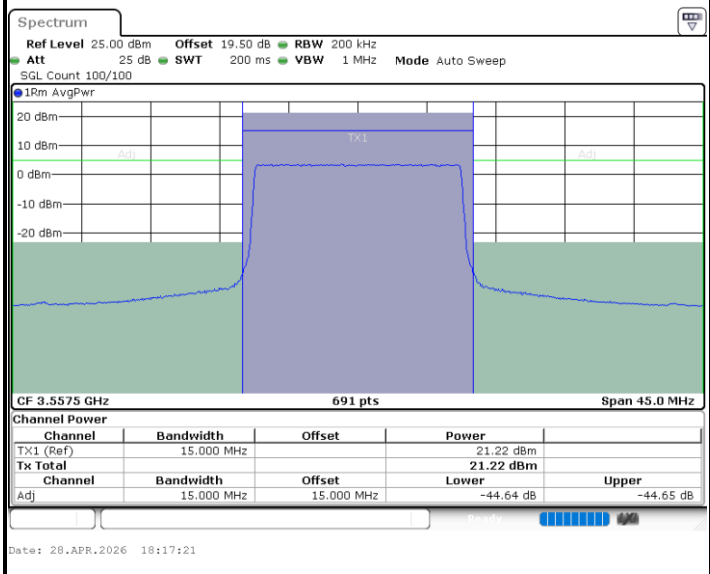
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / FullRB



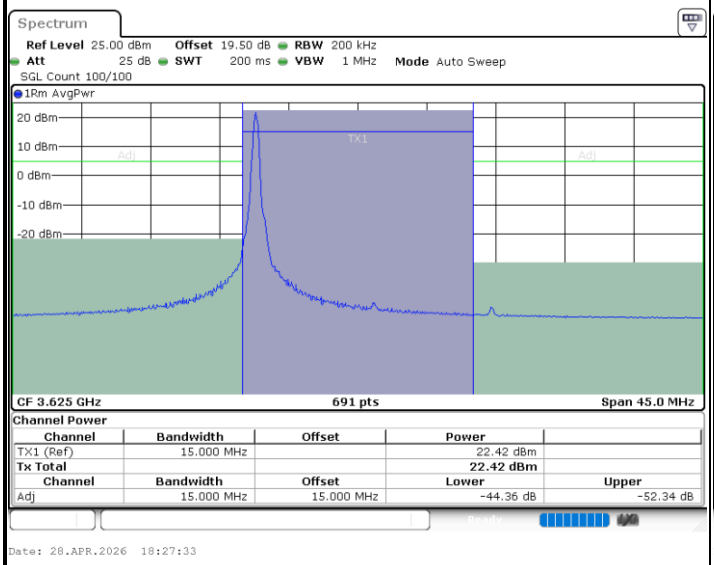
N/A

/

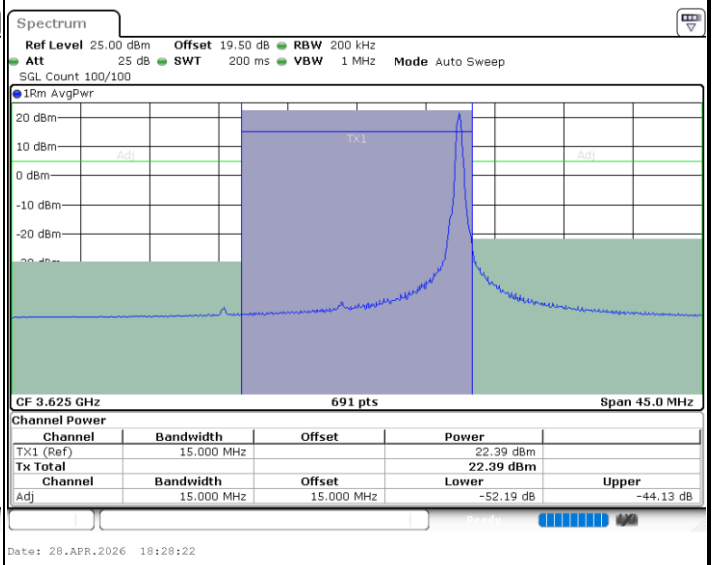
LTE Band 48 / 15MHz

QPSK

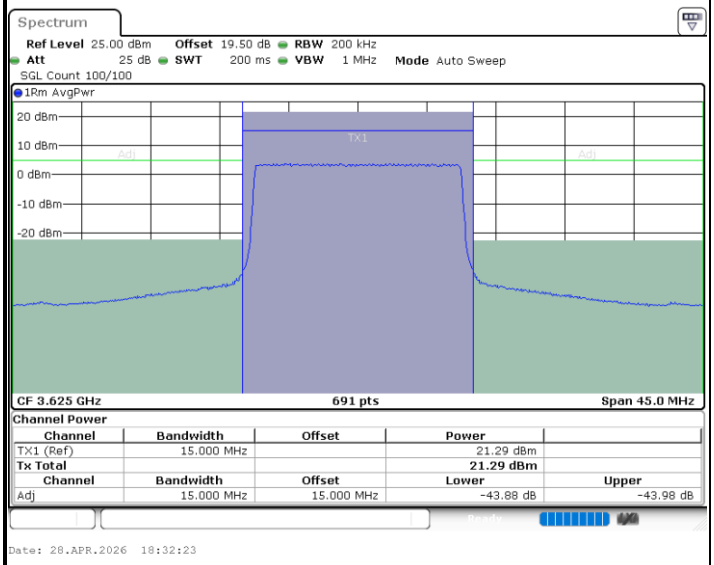
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / FullRB



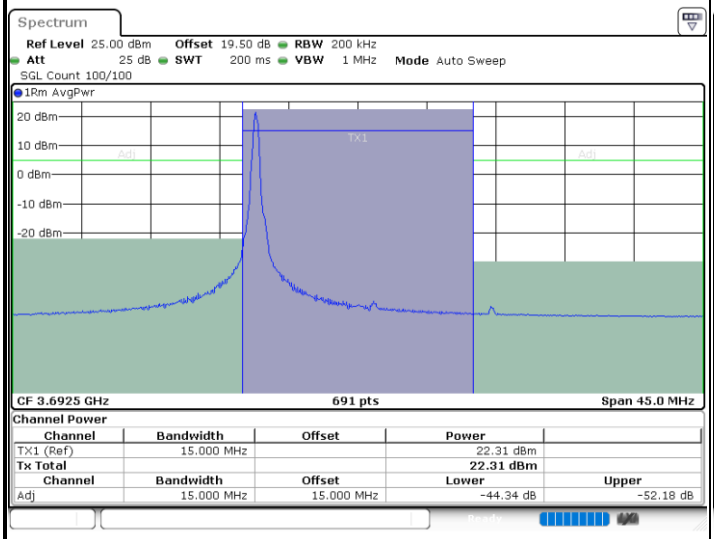
N/A

/

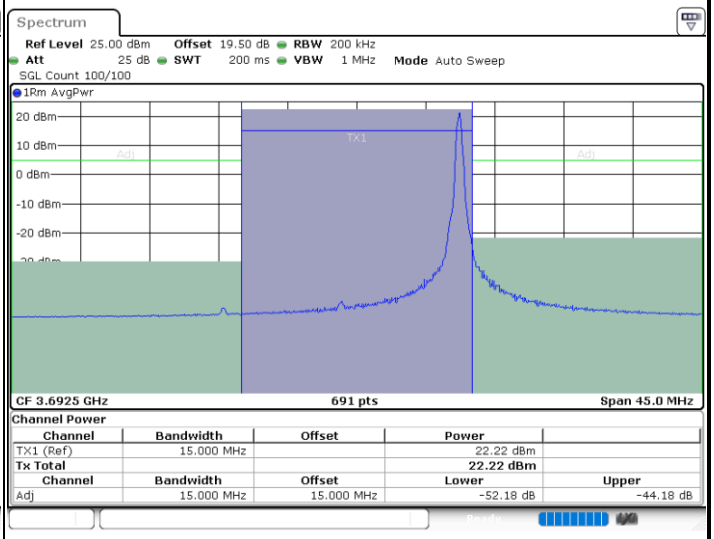
LTE Band 48 / 15MHz

QPSK

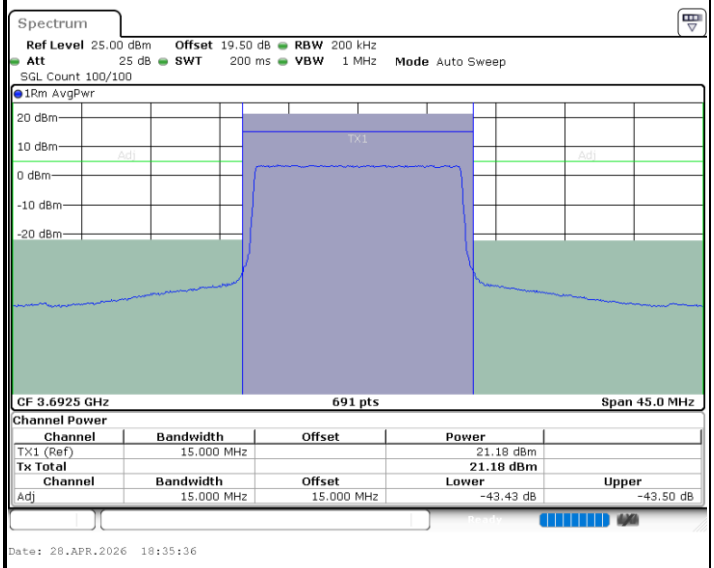
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / FullRB



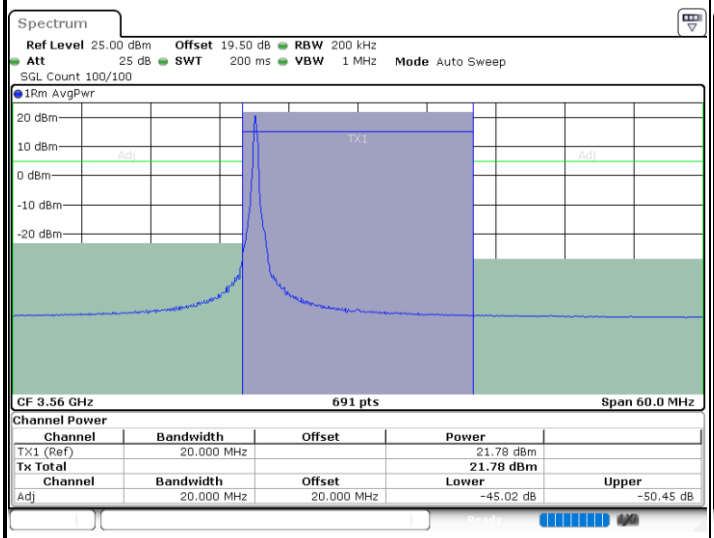
N/A

/

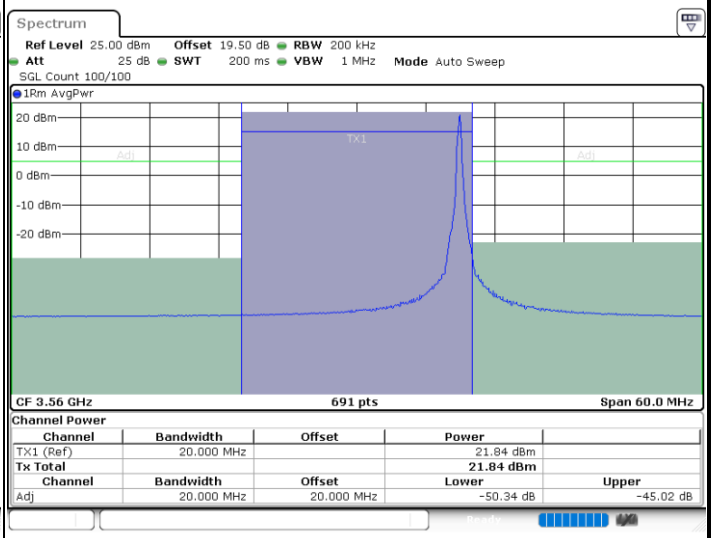
LTE Band 48 / 20MHz

QPSK

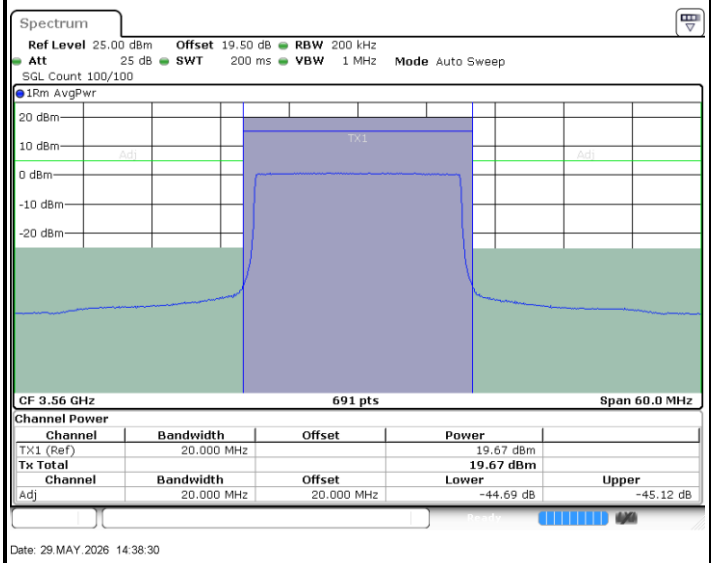
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / FullRB



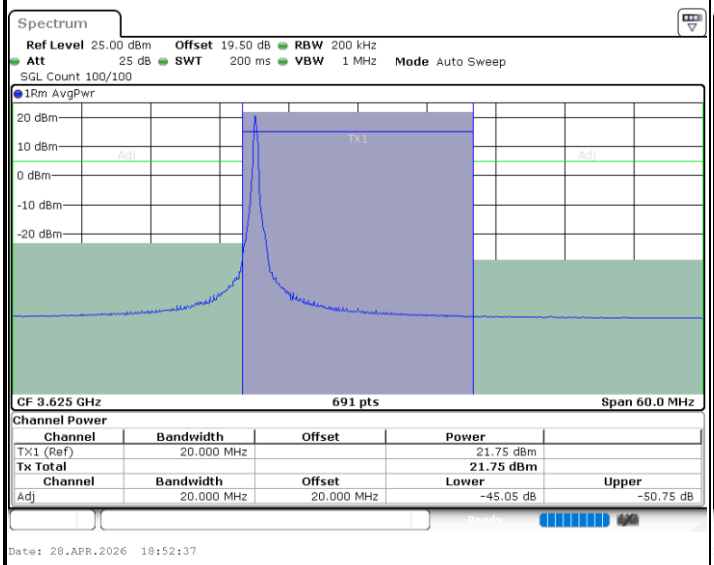
N/A

/

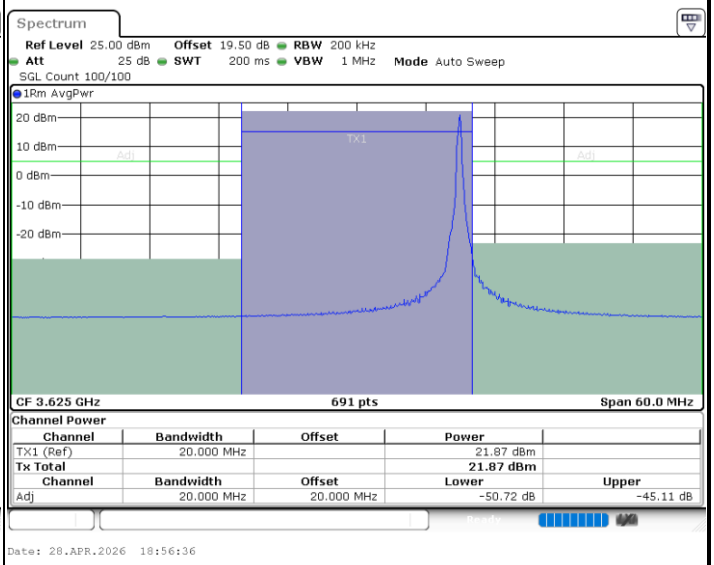
LTE Band 48 / 20MHz

QPSK

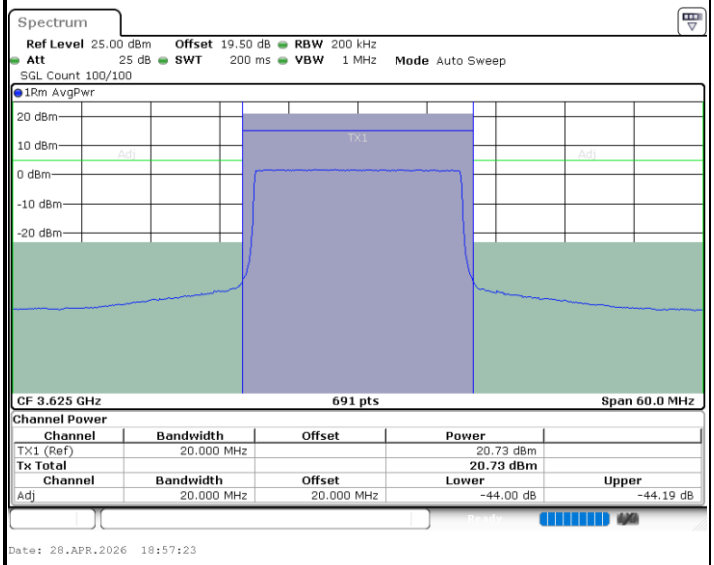
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / FullRB



N/A

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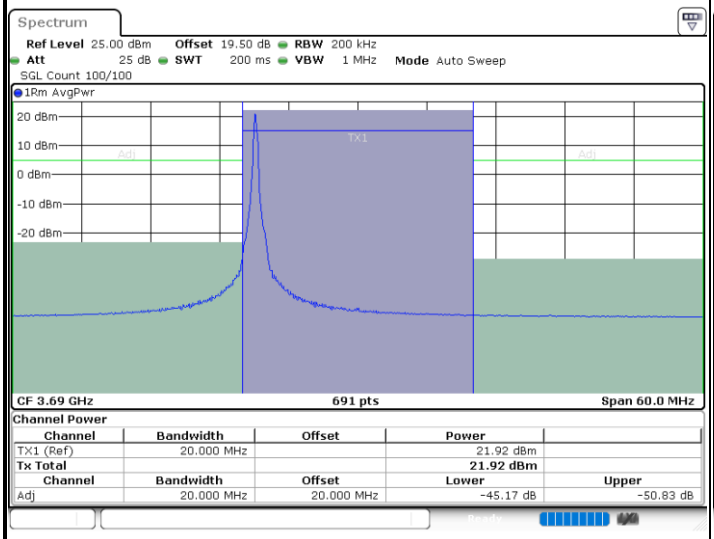
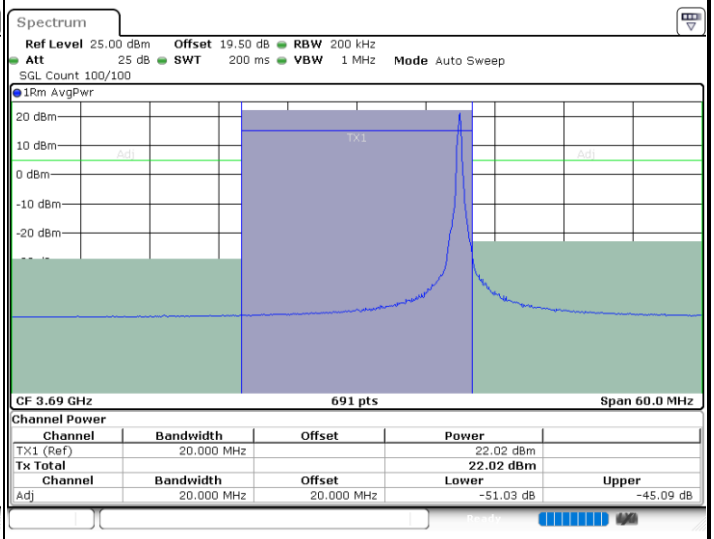
LTE Band 48 / 20MHz

QPSK

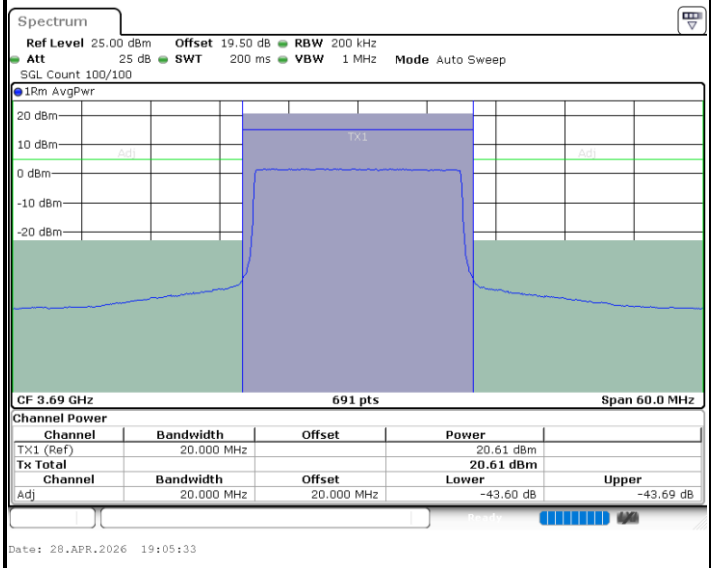
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / FullRB



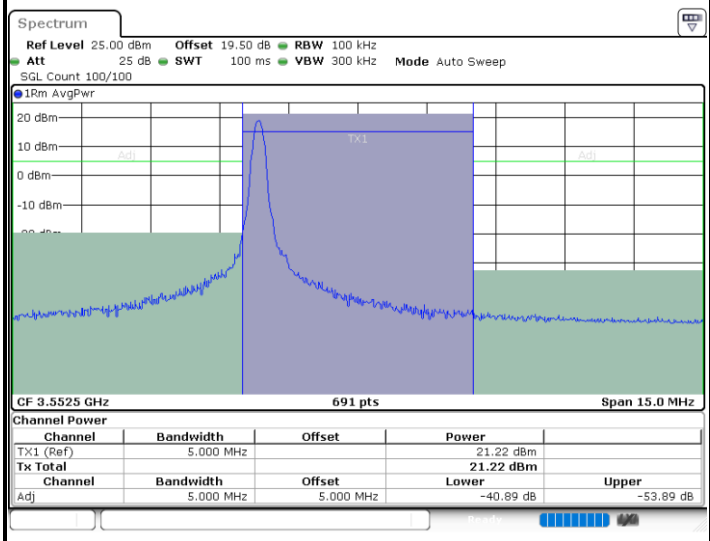
N/A

/

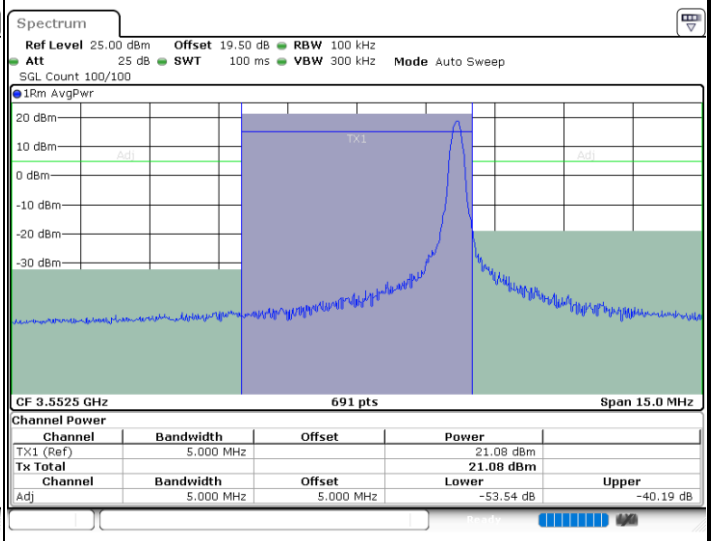
LTE Band 48 / 5MHz

16QAM

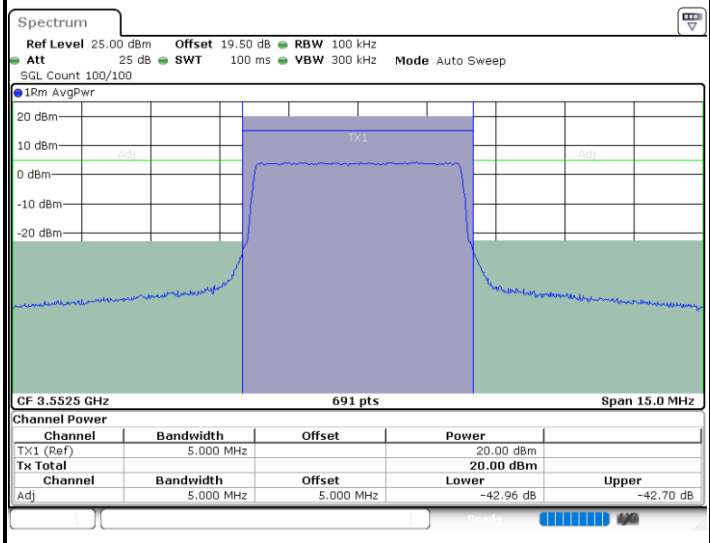
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / FullRB



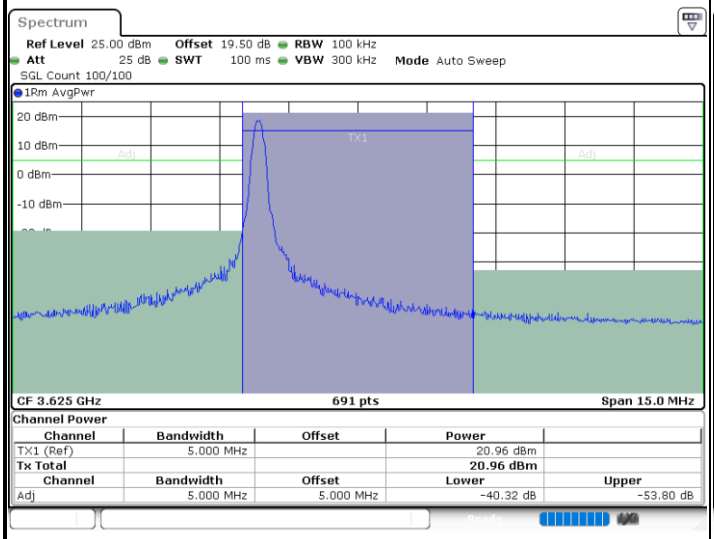
N/A

/

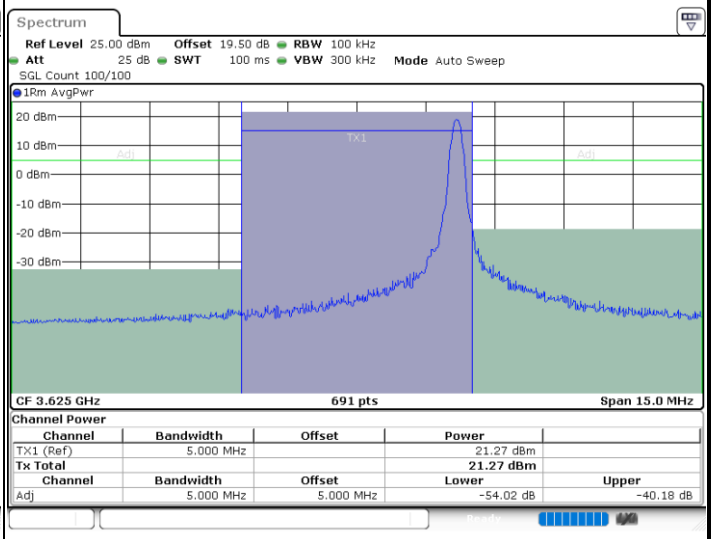
LTE Band 48 / 5MHz

16QAM

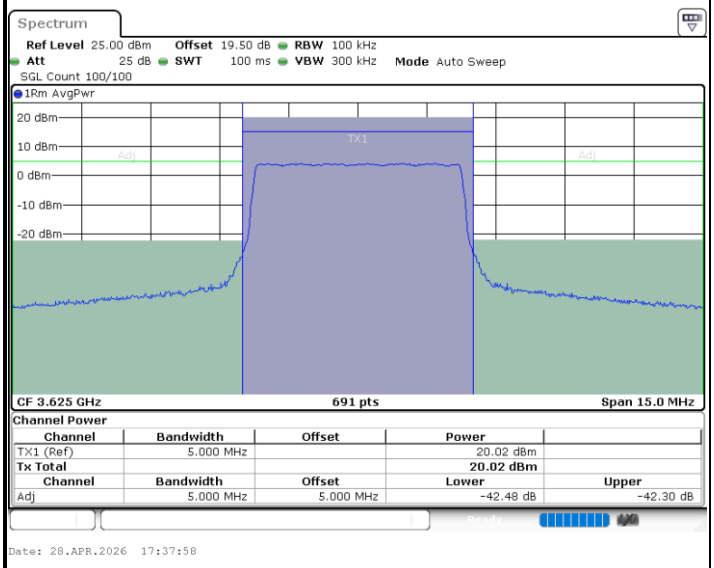
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / FullRB



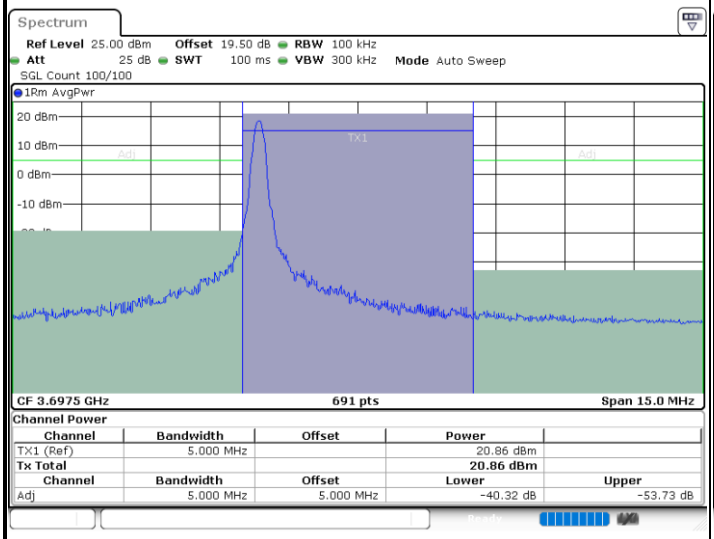
N/A

/

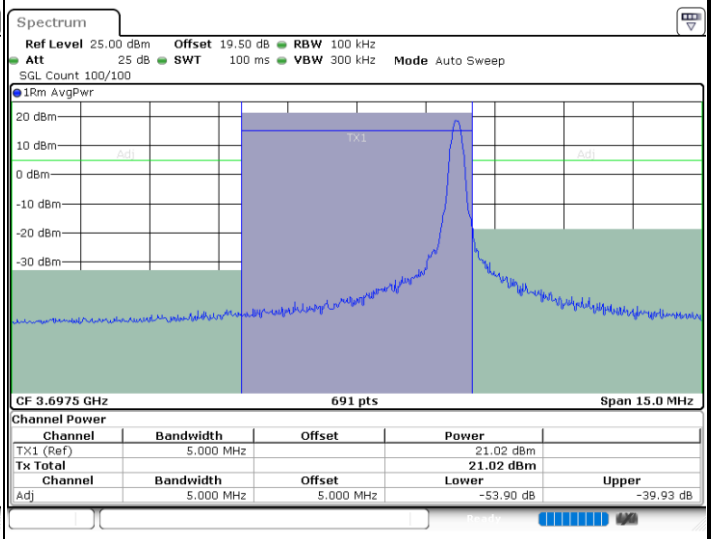
LTE Band 48 / 5MHz

16QAM

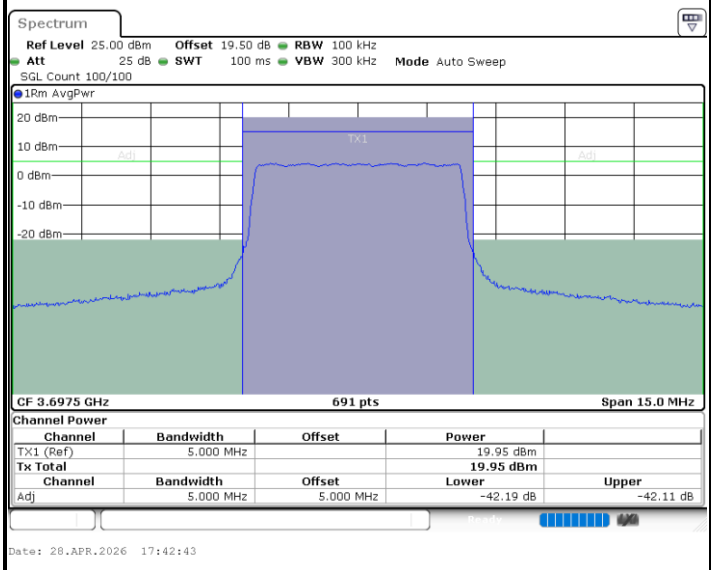
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / FullRB



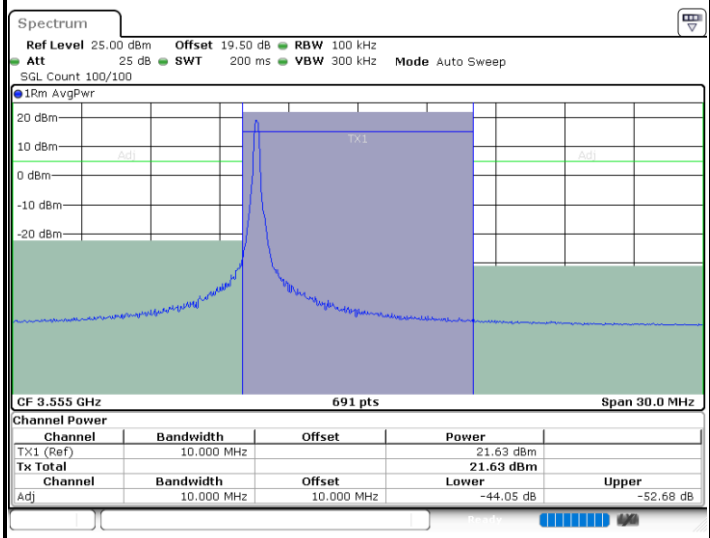
N/A

/

LTE Band 48 / 10MHz

16QAM

Lowest Channel / 1RB0

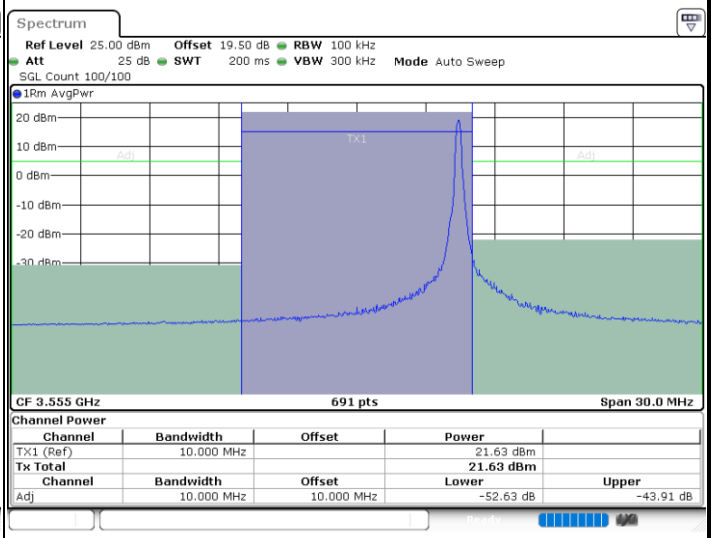


Channel Power

Channel	Bandwidth	Offset	Power	
TX1 (Ref)	10.000 MHz		21.63 dBm	
Tx Total			21.63 dBm	
Channel	Bandwidth	Offset	Lower	Upper
Adj	10.000 MHz	10.000 MHz	-44.05 dB	-52.68 dB

Date: 28.APR.2026 17:56:06

Lowest Channel / 1RBmax

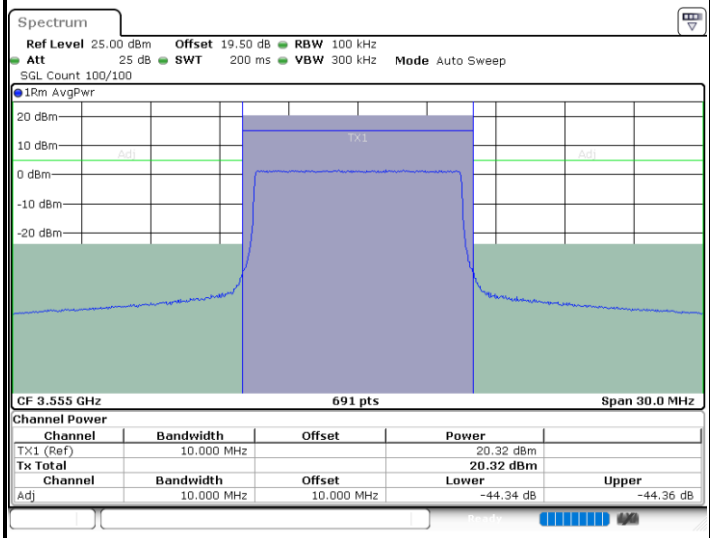


Channel Power

Channel	Bandwidth	Offset	Power	
TX1 (Ref)	10.000 MHz		21.63 dBm	
Tx Total			21.63 dBm	
Channel	Bandwidth	Offset	Lower	Upper
Adj	10.000 MHz	10.000 MHz	-52.63 dB	-43.91 dB

Date: 28.APR.2026 17:53:39

Lowest Channel / FullRB



Channel Power

Channel	Bandwidth	Offset	Power	
TX1 (Ref)	10.000 MHz		20.32 dBm	
Tx Total			20.32 dBm	
Channel	Bandwidth	Offset	Lower	Upper
Adj	10.000 MHz	10.000 MHz	-44.34 dB	-44.36 dB

Date: 28.APR.2026 17:51:12

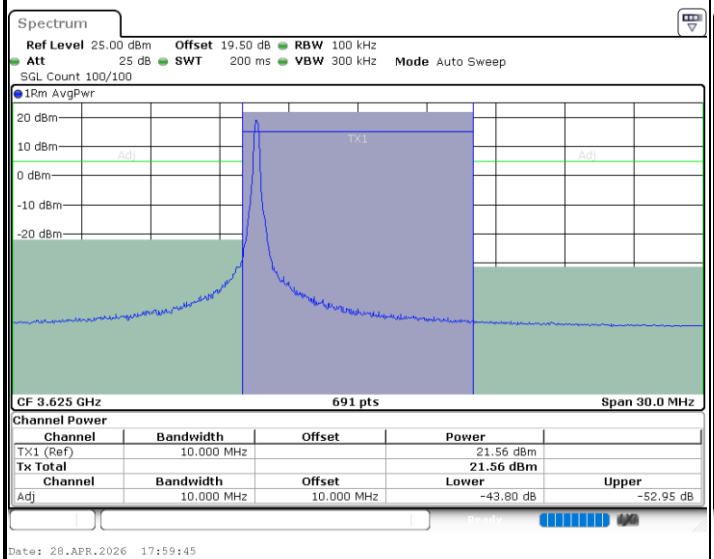
N/A

/

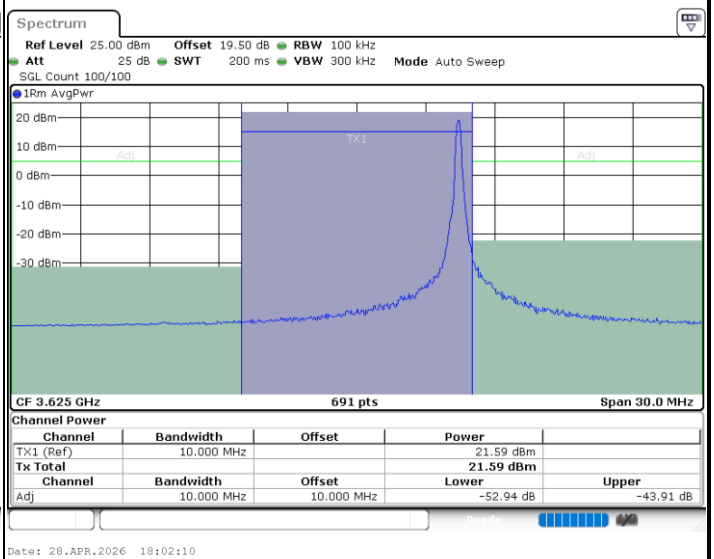
LTE Band 48 / 10MHz

16QAM

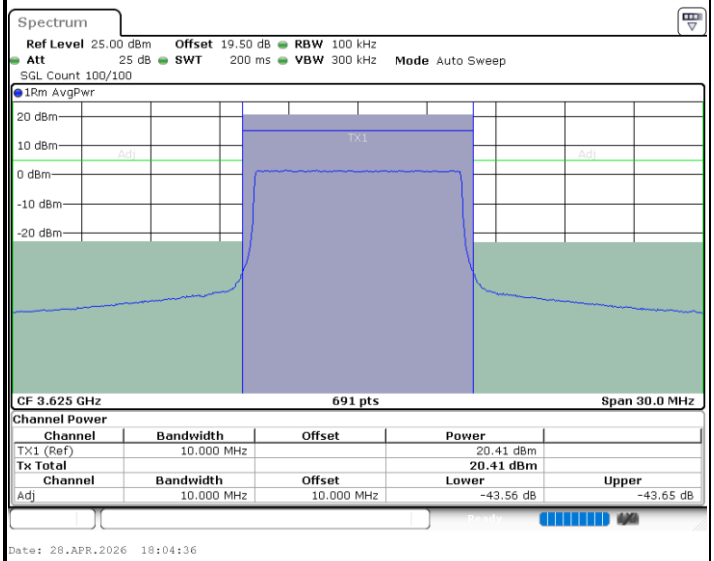
Middle Channel / 1RB0



Middle Channel / 1RBmax

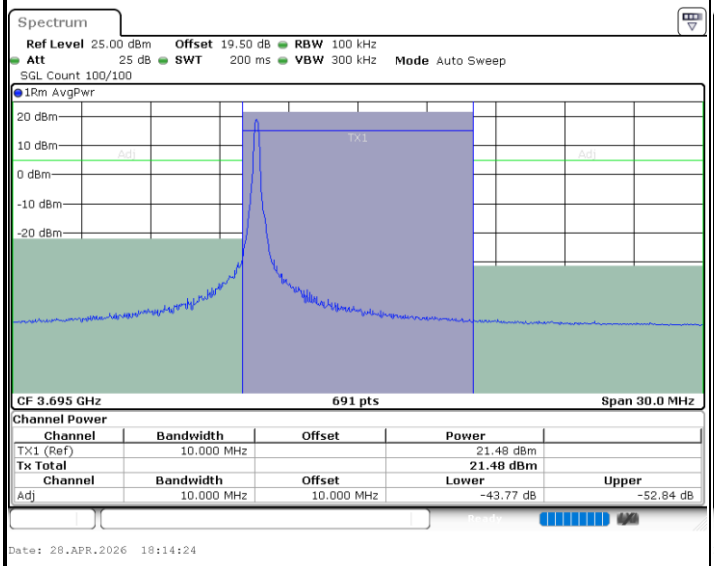
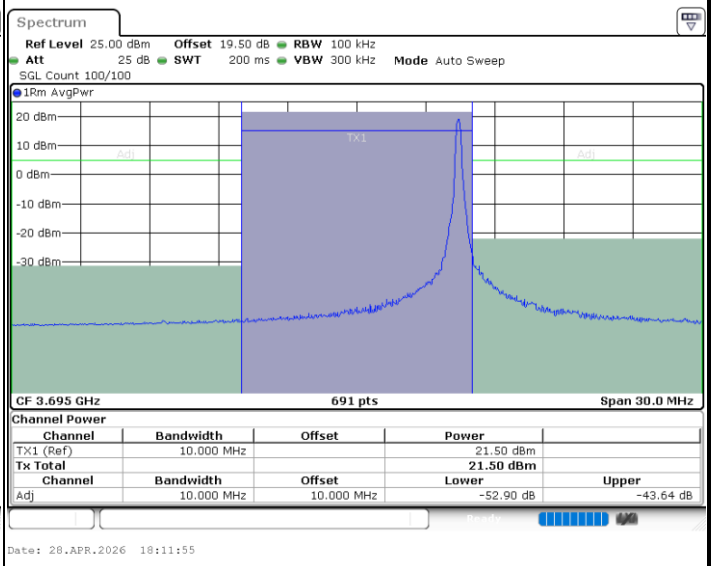
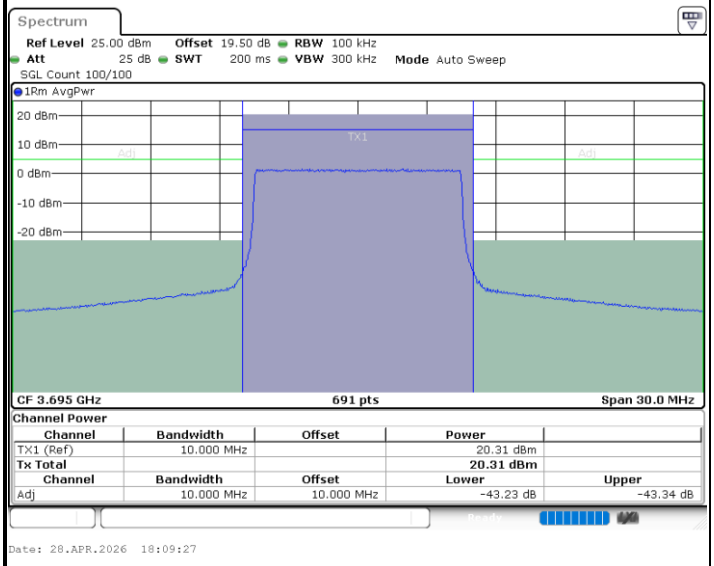


Middle Channel / FullRB



N/A

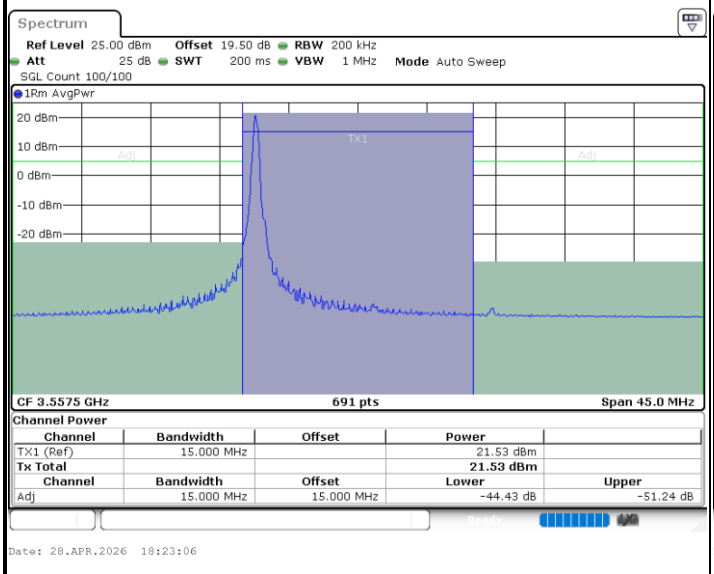
/

LTE Band 48 / 10MHz	
16QAM	
Highest Channel / 1RB0	Highest Channel / 1RBmax
	
Highest Channel / FullRB	N/A
	/

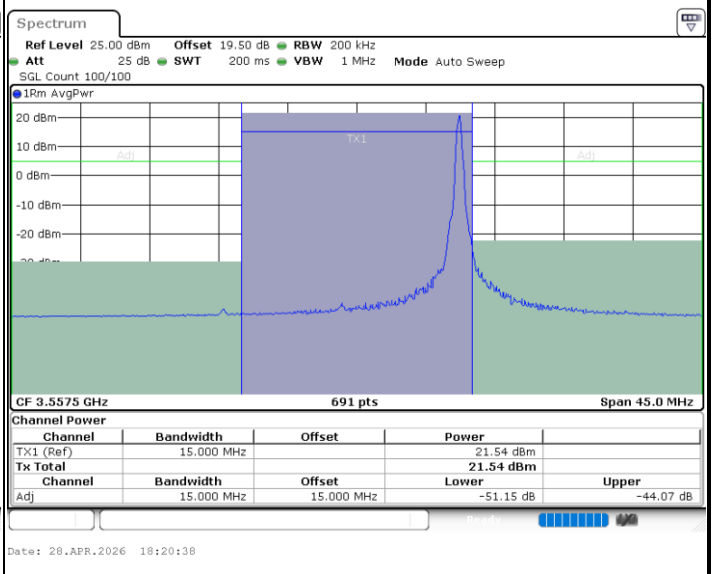
LTE Band 48 / 15MHz

16QAM

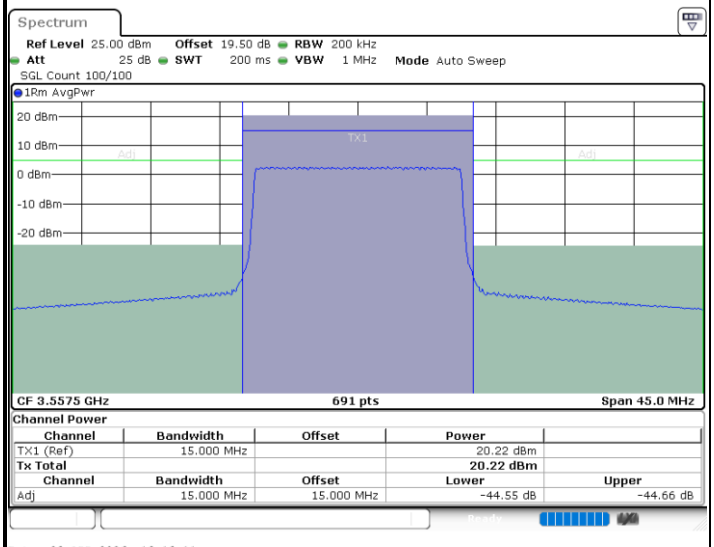
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / FullRB



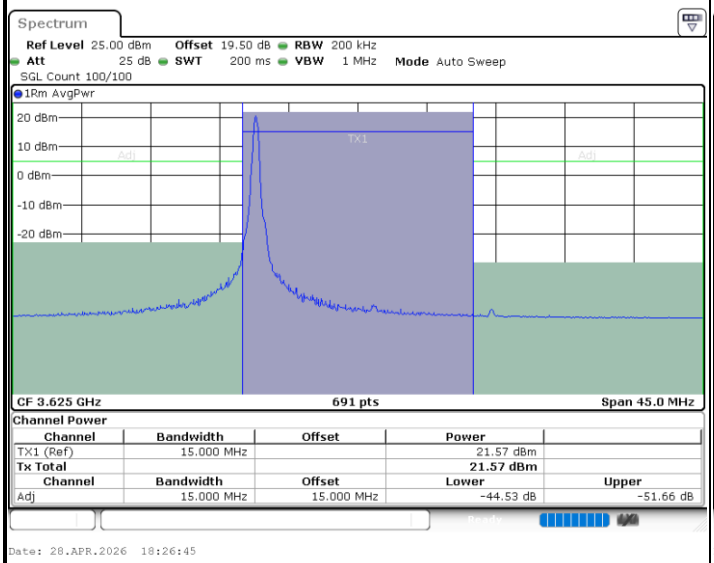
N/A

/

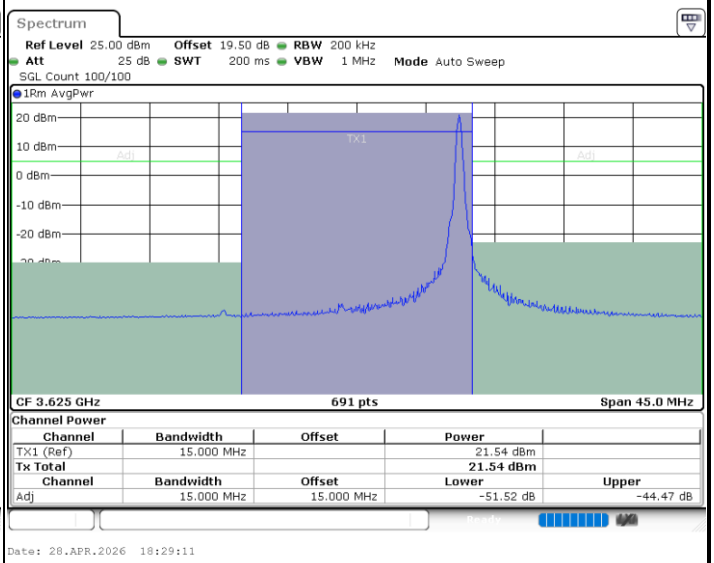
LTE Band 48 / 15MHz

16QAM

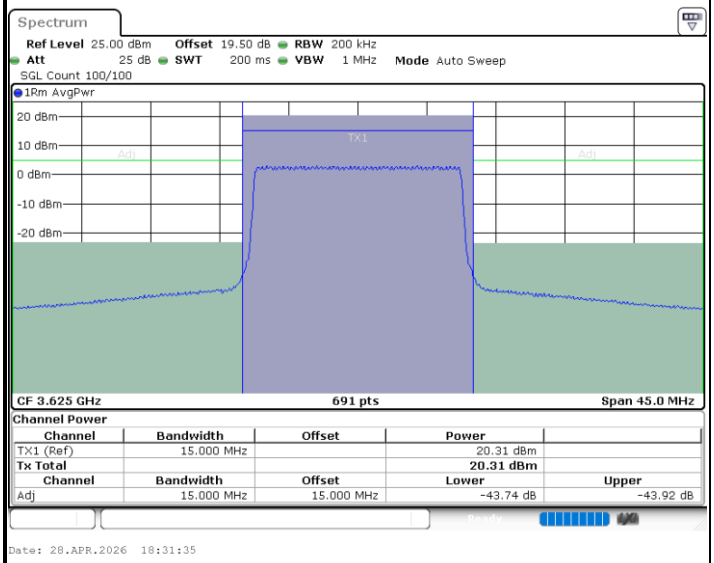
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / FullRB



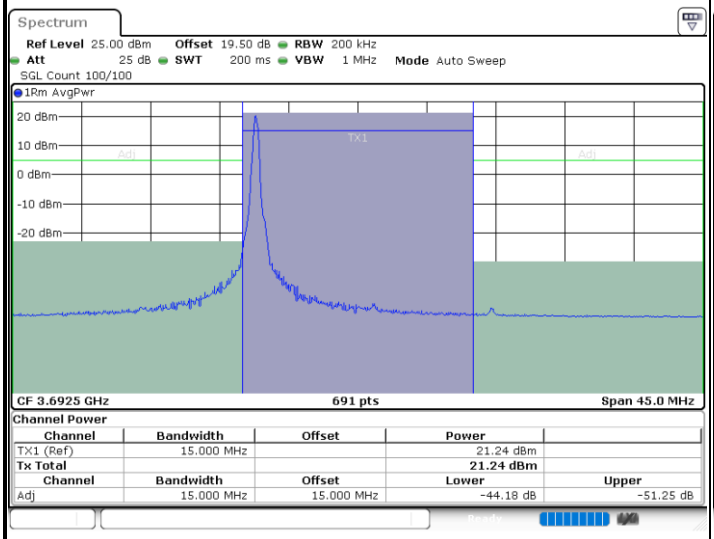
N/A

/

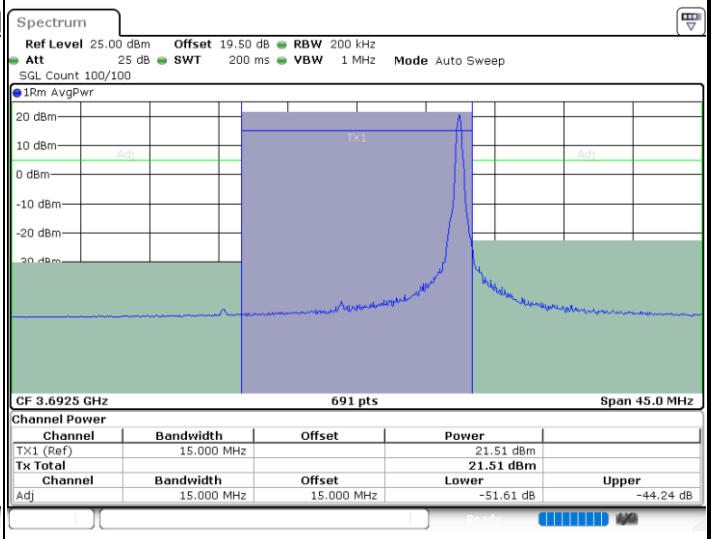
LTE Band 48 / 15MHz

16QAM

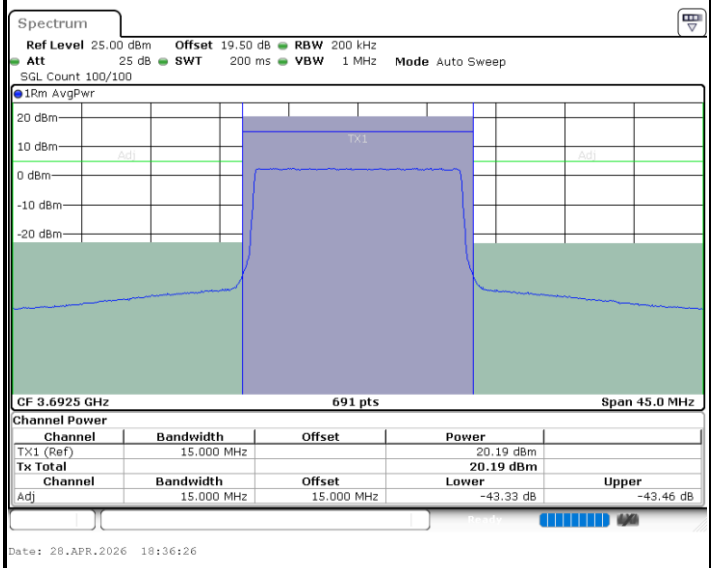
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / FullRB



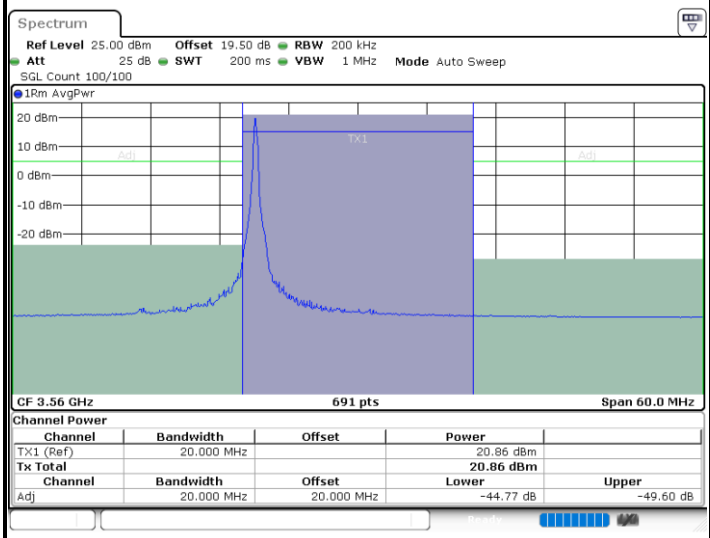
N/A

/

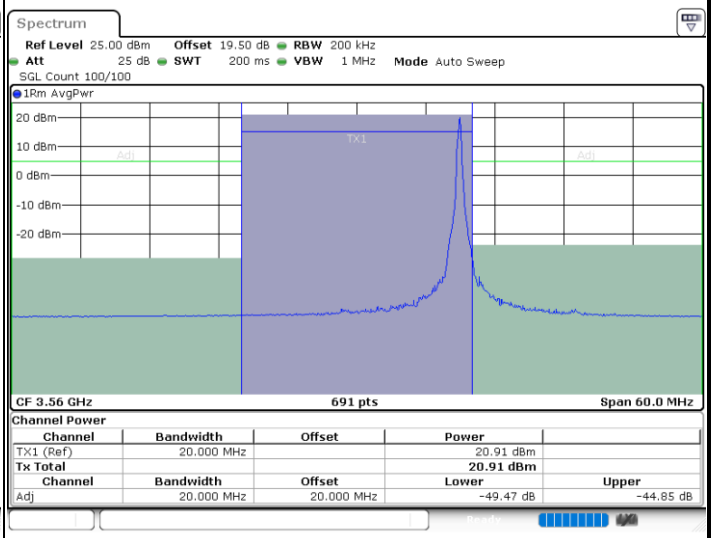
LTE Band 48 / 20MHz

16QAM

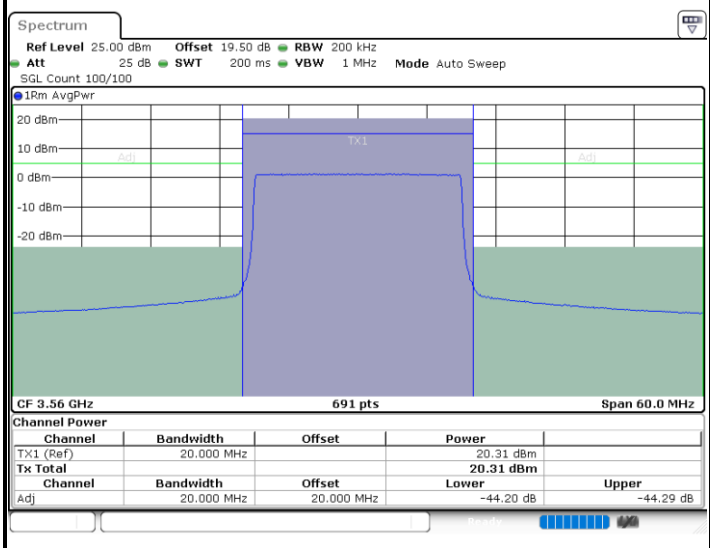
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / FullRB



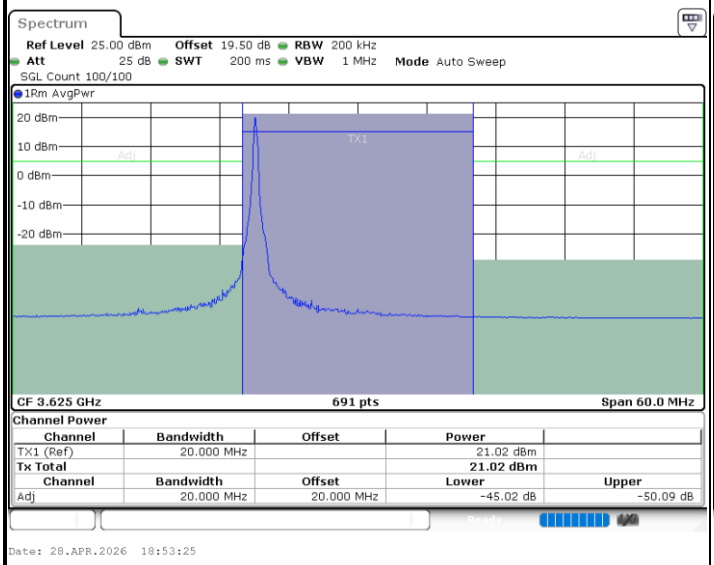
N/A

/

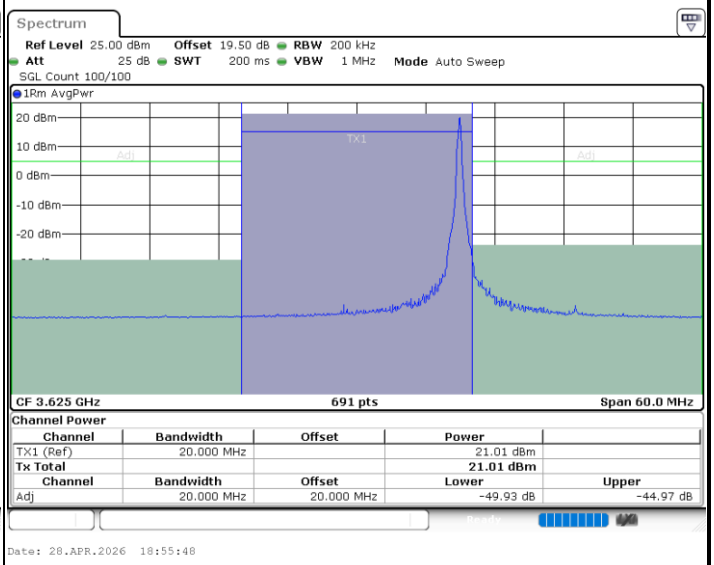
LTE Band 48 / 20MHz

16QAM

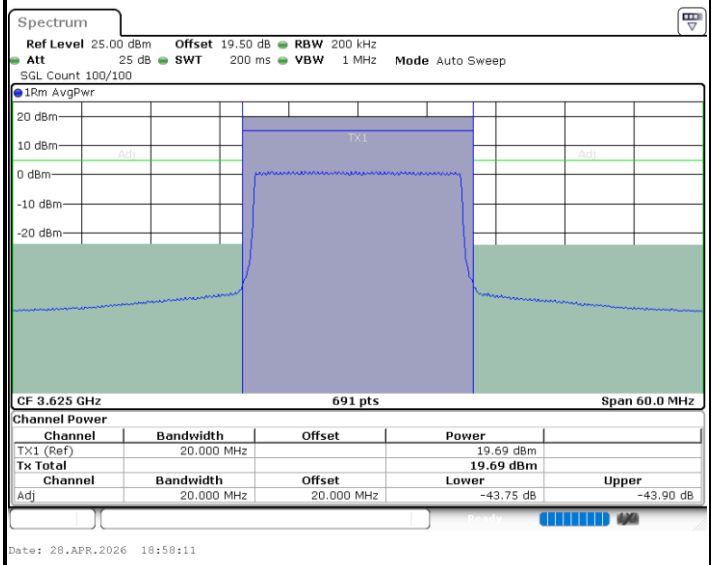
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / FullRB



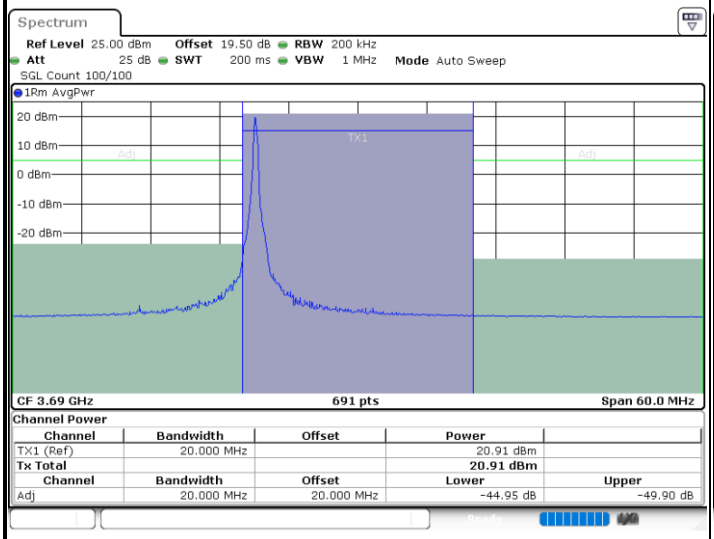
N/A

/

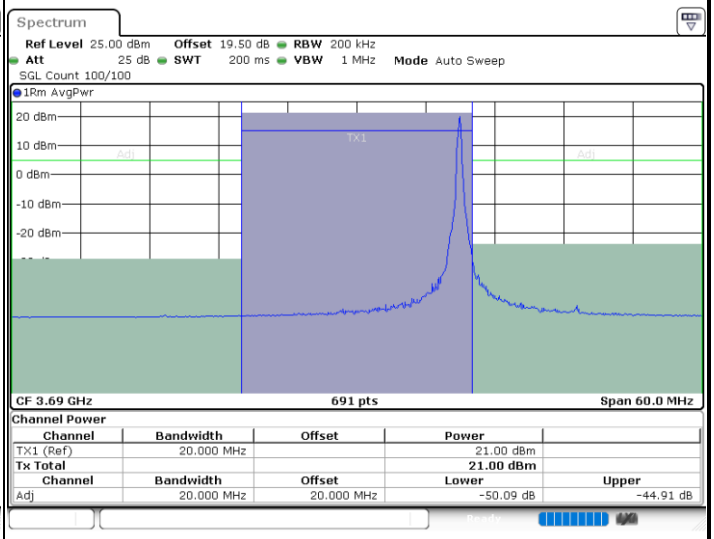
LTE Band 48 / 20MHz

16QAM

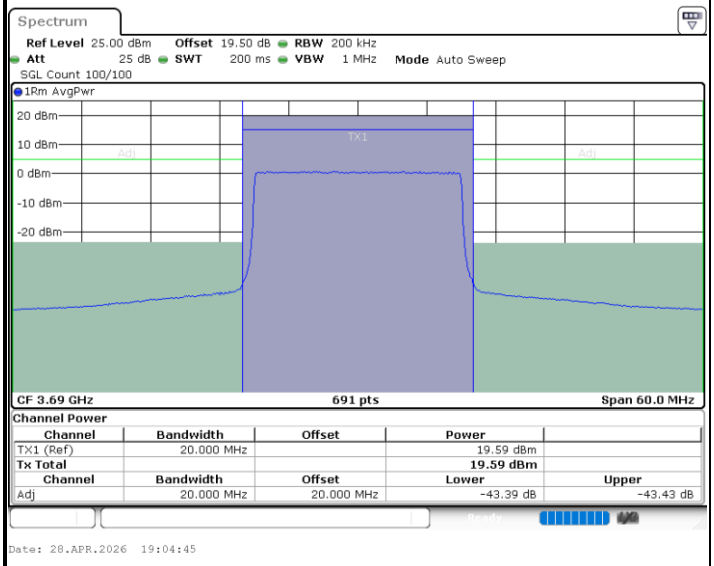
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / FullRB



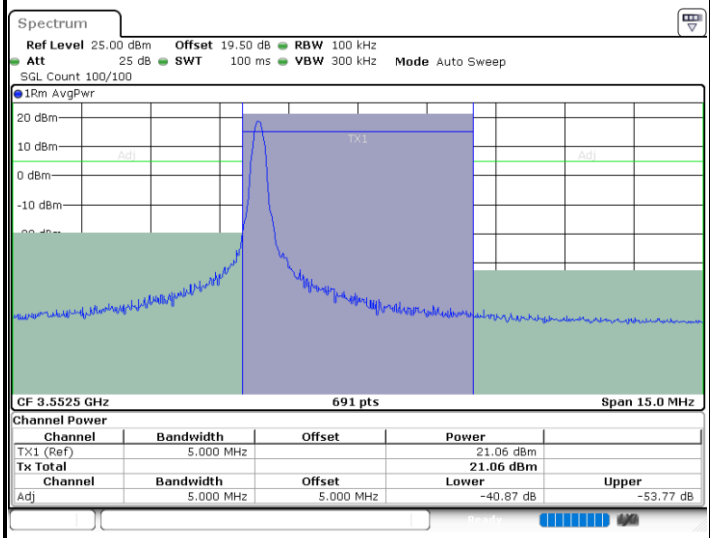
N/A

/

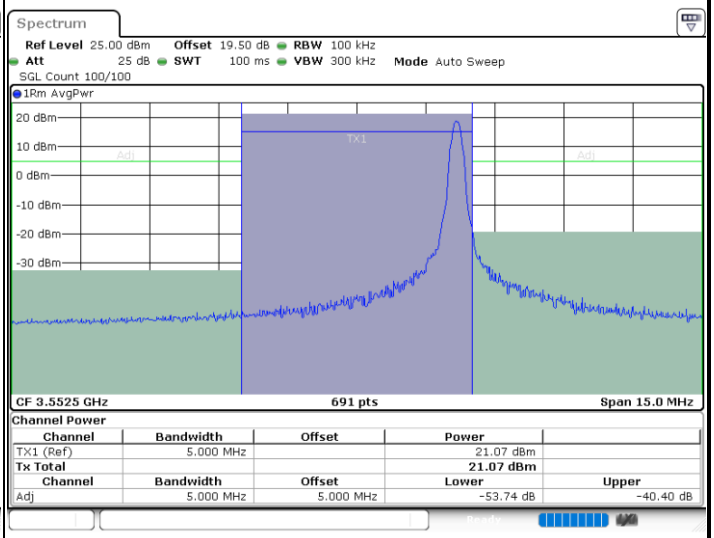
LTE Band 48 / 5MHz

64QAM

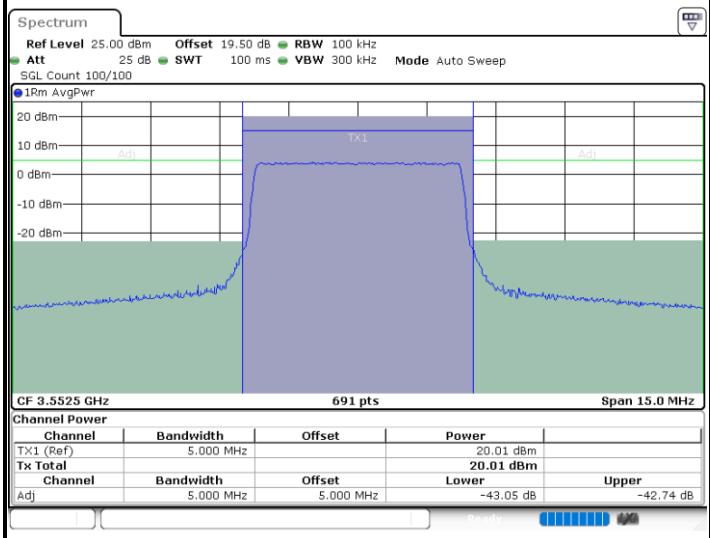
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / FullRB



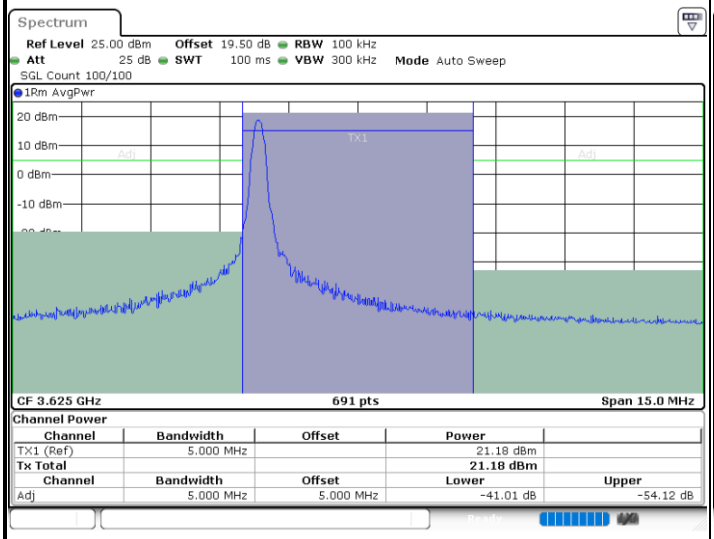
N/A

/

LTE Band 48 / 5MHz

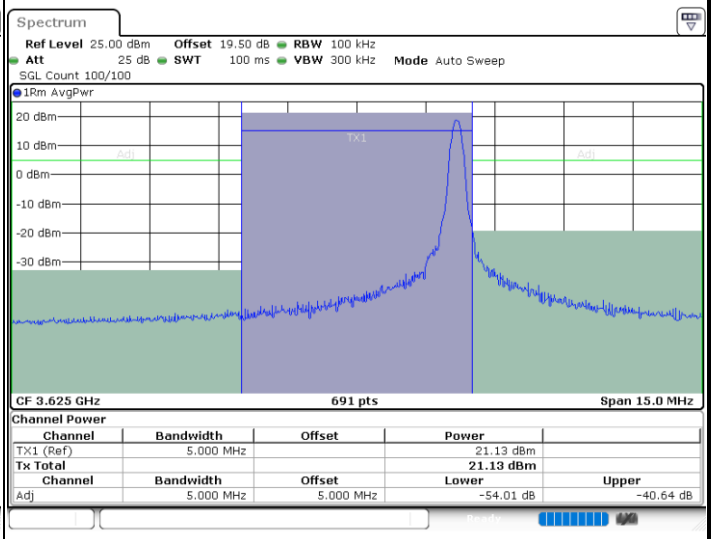
64QAM

Middle Channel / 1RB0



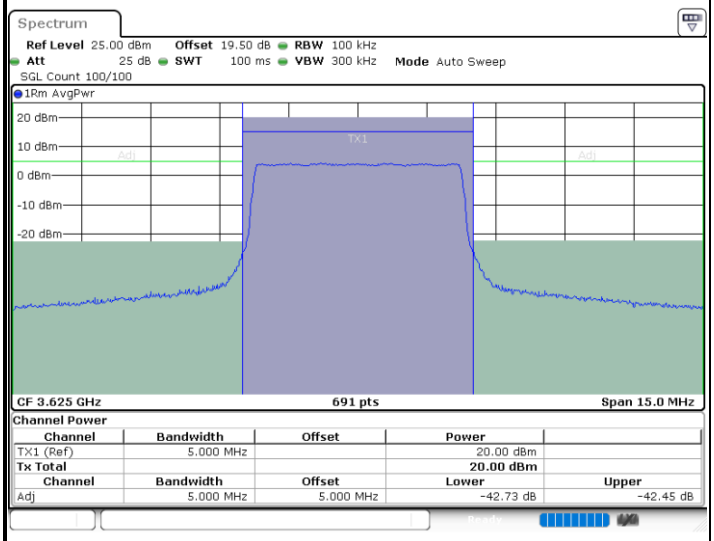
Date: 28.APR.2026 17:36:24

Middle Channel / 1RBmax



Date: 28.APR.2026 17:32:29

Middle Channel / FullRB



Date: 28.APR.2026 17:37:11

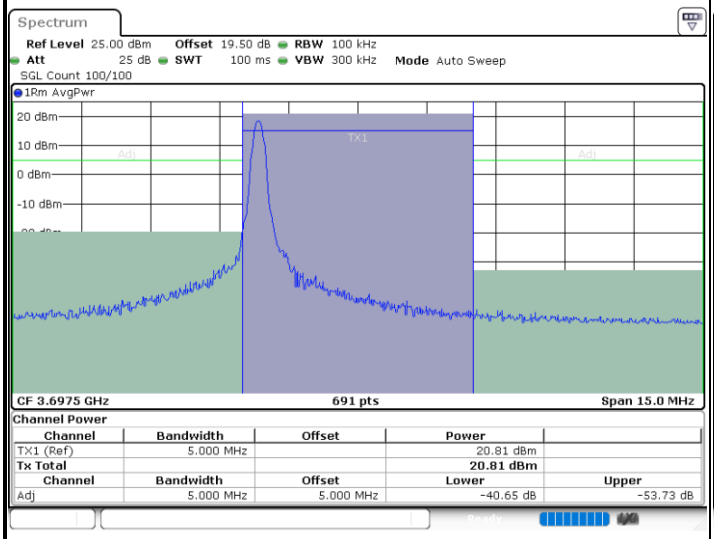
N/A

/

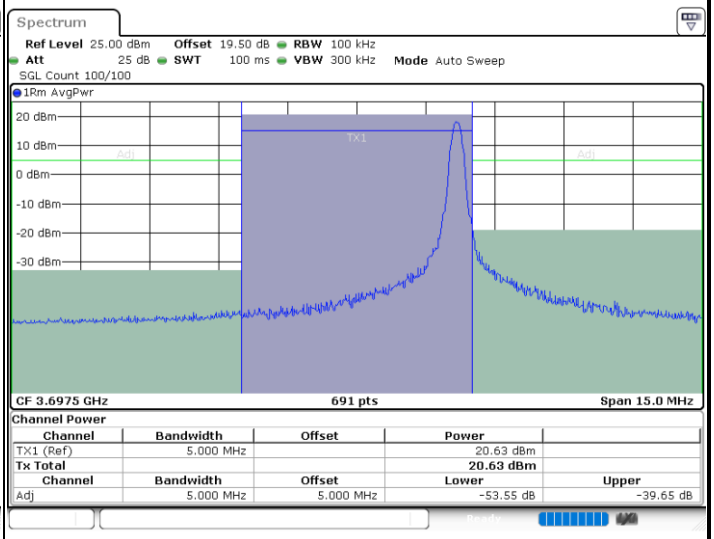
LTE Band 48 / 5MHz

64QAM

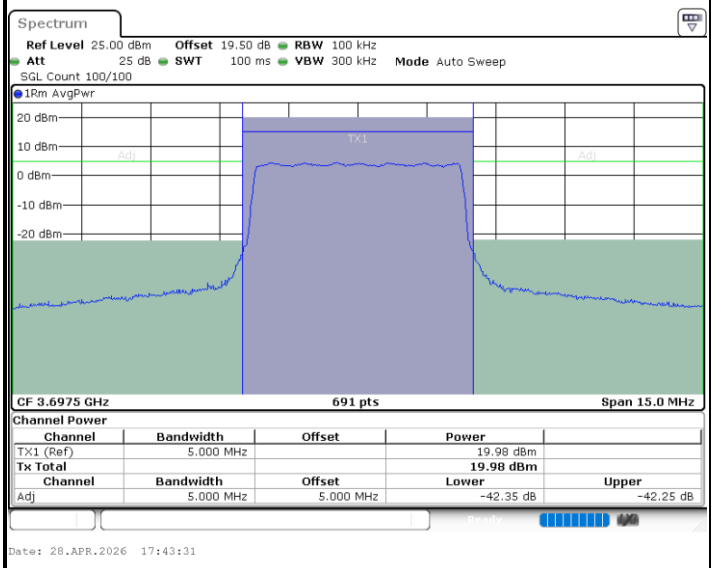
Highest Channel / 1RB0



Highest Channel / 1RBmax



Highest Channel / FullRB



N/A

/