

FCC RF Test Report

APPLICANT : OnePlus Technology (Shenzhen) Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : ONEPLUS, ⁺
MODEL NAME : CPH2749
FCC ID : 2ABZ2-OP24865
STANDARD : 47 CFR Part 96
CLASSIFICATION : Citizens Band End User Devices (CBE)
EQUIPMENT TYPE : End User Equipment
TEST DATE(S) : Jul. 17, 2025 ~ Aug. 14, 2025

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.



Approved by: Fly Liang



Sporton International Inc. (ShenZhen)

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People's Republic of China



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History of this test report

Report No.	Version	Description	Issued Date
FG561202G	01	Initial issue of report	Sep. 01, 2025

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 9.24 dB at 14469.50 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/manufacture 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

OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.

1.2 Manufacturer

OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	ONEPLUS, 
Model Name	CPH2749
FCC ID	2ABZ2-OP24865
Tx Frequency	LTE Band 48: 3550 MHz ~ 3700 MHz
Rx Frequency	LTE Band 48: 3550 MHz ~ 3700 MHz
Bandwidth	5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	<Ant.4> LTE Band 48: 21.72 dBm <Ant.10> LTE Band 48: 24.11 dBm LTE Band 48C: 23.70 dBm <Ant.12> LTE Band 48: 20.69 dBm <Ant.13> LTE Band 48: 23.37 dBm LTE Band 48C: 22.89 dBm
Antenna Gain	<Ant. 4> LTE Band 48: -2.00 dBi <Ant. 10> LTE Band 48: -2.50 dBi <Ant. 12> LTE Band 48: -1.00 dBi <Ant. 13> LTE Band 48: -2.00 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM
IMEI Code	Conducted: 867621080021434 Radiation: 867621080023190/867621080023182
HW Version	11
SW Version	OxygenOS 16.0
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 maximum EIRP is calculated from max output power and antenna gain, only the maximum EIRP of Ant. 10 is shown in the report.
3. For conducted test items, only the test data of the worst Ant.10 are showed in the report according to the maximum conducted power.

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	0.1435	4M47G7D	0.1159	4M48W7D
10	3555~3695	0.1445	8M99G7D	0.1167	9M09W7D
15	3557.5~3692.5	0.1426	13M4G7D	0.1159	13M4W7D
20	3560~3690	0.1449	18M0G7D	0.1189	17M9W7D

LTE Band 48 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 (3553.5 ~ 3690 MHz)		0.1250	23M5G7D	0.1030	23M3W7D
10MHz+20MHz (3555.5 ~ 3690 MHz)		0.1230	28M0G7D	0.1014	28M1W7D
15MHz+20MHz (3557.8 ~ 3690 MHz)		0.1250	32M9G7D	0.1030	32M9W7D
20MHz+5MHz (3560 ~ 3696.7 MHz)		0.1276	23M3G7D	0.1052	23M3W7D
20MHz+10MHz (3560 ~ 3694.5 MHz)		0.1250	28M2G7D	0.1000	28M2W7D
20MHz+15MHz (3560 ~ 3692.2 MHz)		0.1282	32M9G7D	0.1057	32M9W7D
20MHz+20MHz (3560 ~ 3690 MHz)		0.1318	38M0G7D	0.1054	37M9W7D

Note: All modulations have been tested, 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	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

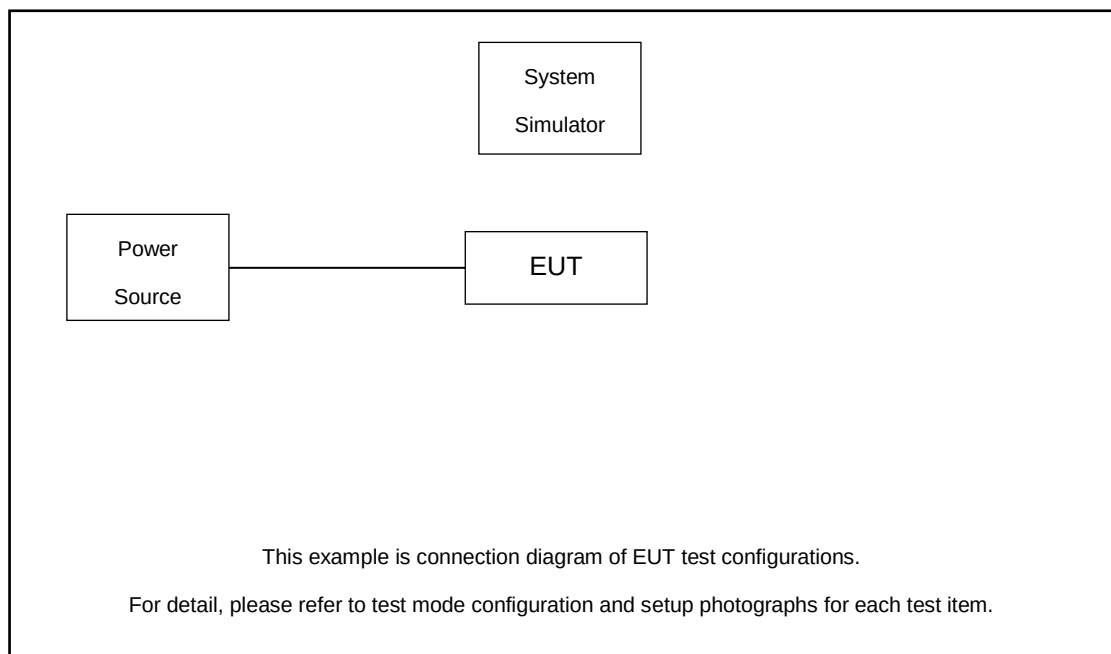
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z 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	256 QAM	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
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	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
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.																

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	16 QAM	64 QAM	256 QAM	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	
Conducted Band Edge	48C	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
Adjacent Channel Leakage Ratio	48C	v	v	v	v	v	-	v	v	v	v	v		v		v	v	v	v
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. 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



2.3 Support Unit used in test configuration

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m

2.4 Measurement Results Explanation Example

For all conducted test items:

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

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

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 9.5dB and 10dB attenuator.

Example :

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 9.5 + 10 = 19.5 \text{ (dB)} \end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

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

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

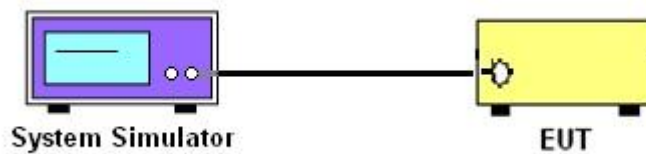
3 Conducted Test Items

3.1 Measuring Instruments

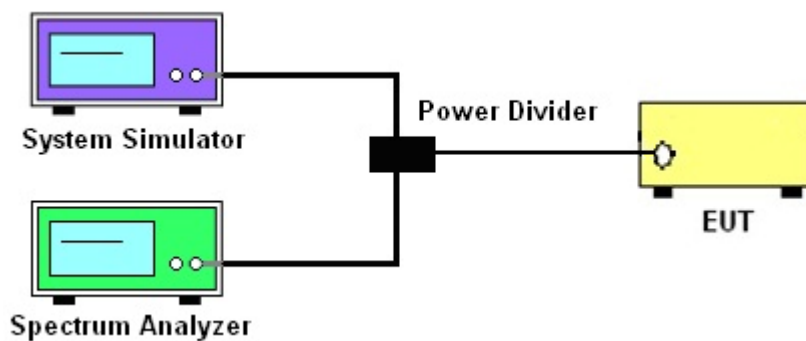
See list of measuring instruments of this test report.

3.2 Test Setup

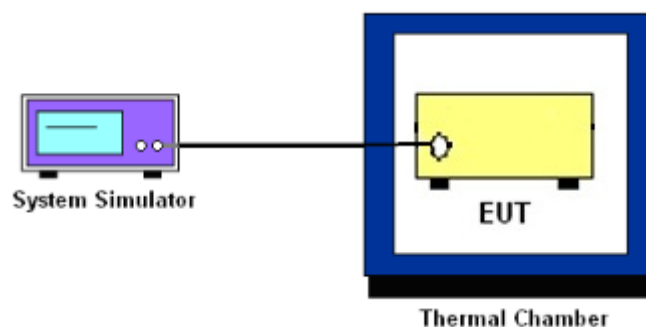
3.2.1 Conducted Output Power / ACLR



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.

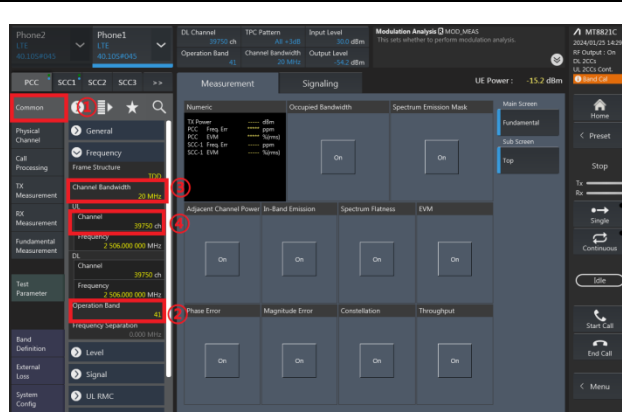
3.3.2 Test Procedures

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.

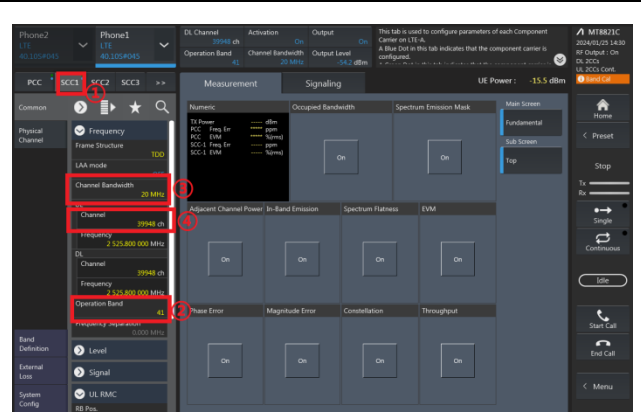
3.3.3 Test Procedures for LTE ULCA

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter PCC & SCC output ports were connected to the system simulator.
3. Set EUT at maximum power, set the PCC/SCC CA band, channel, bandwidth and RB config.

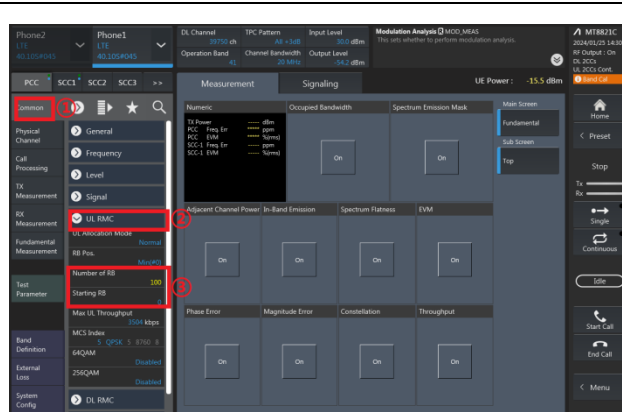
PCC config_(Channel Bandwidth / Channel / Band)



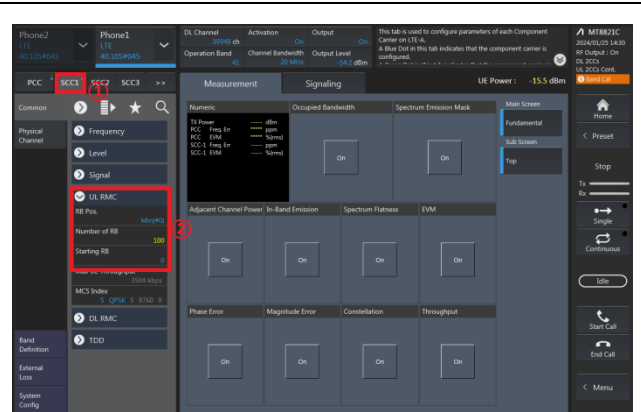
SCC config_(Channel Bandwidth / Channel / Band)



PCC config_(Number of RB / Starting RB)

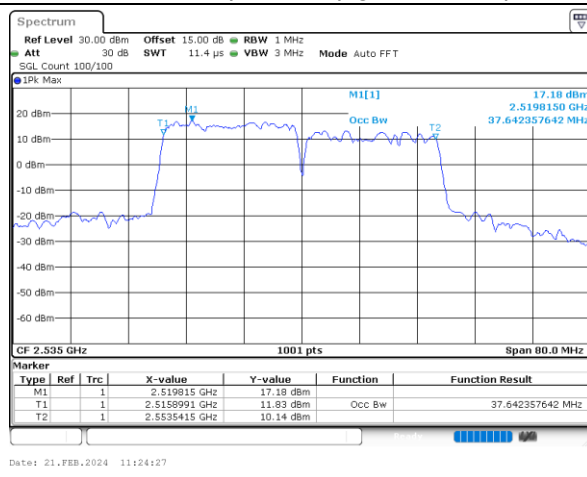


SCC config_(Number of RB / Starting RB)

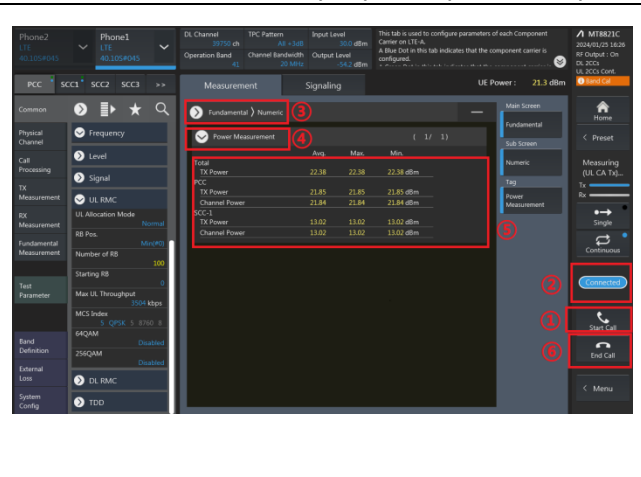


4. Select lowest, middle, and highest channels for each ULCA band and different modulation.
5. Check the ULCA spectrum and record the total power from the system simulator.

Check the ULCA spectrum (eg. 20M+20M)



Read the Total UL CA output power (PCC+SCC)



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)
$$\text{EIRP} = P_T + G_T - L_C, \text{ ERP} = \text{EIRP} - 2.15, \text{ where}$$
$$P_T = \text{transmitter output power in dBm}$$
$$G_T = \text{gain of the transmitting antenna in dBi}$$
$$L_C = \text{signal attenuation in the connecting cable between the transmitter and antenna in dB}$$

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 -40 dBm/MHz

3.6.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

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

3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

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 low/middle/high 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. Offset has included the duty factor for LTE Band 48. Duty factor = $10 \log (1/x)$, where x is the measured duty cycle.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. The limit line is -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.

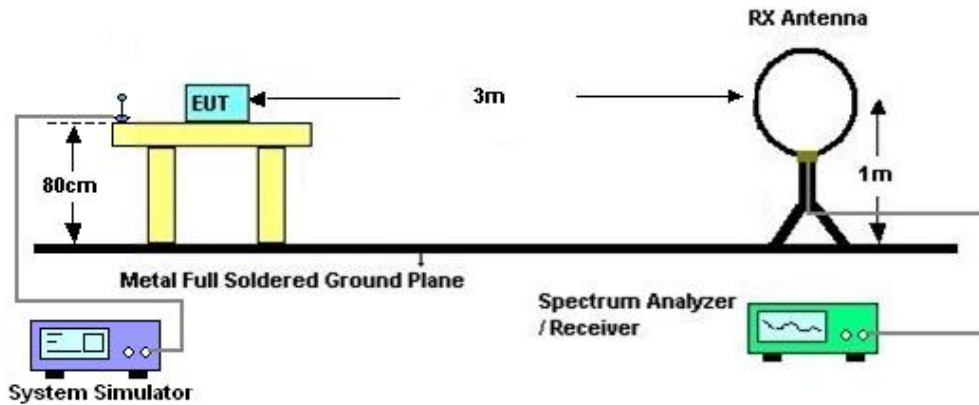
4 Radiated Test Items

4.1 Measuring Instruments

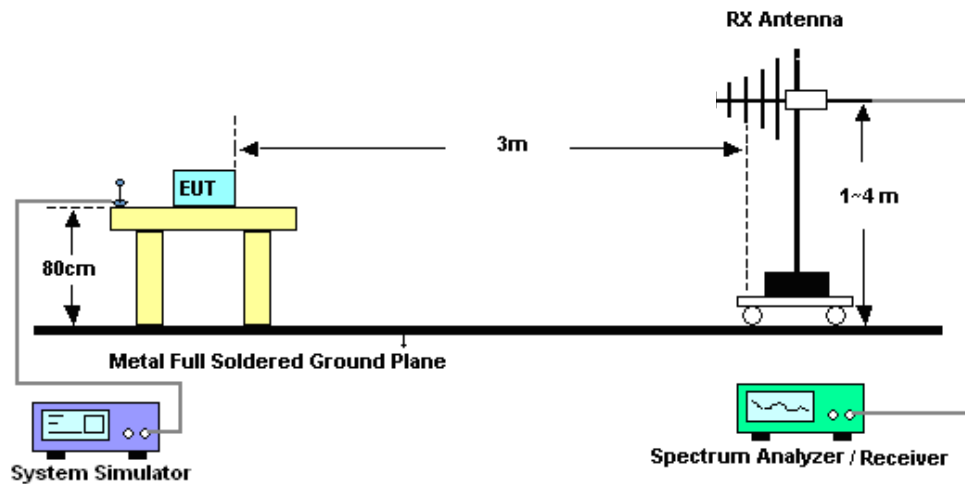
See list of measuring instruments of this test report.

4.2 Test Setup

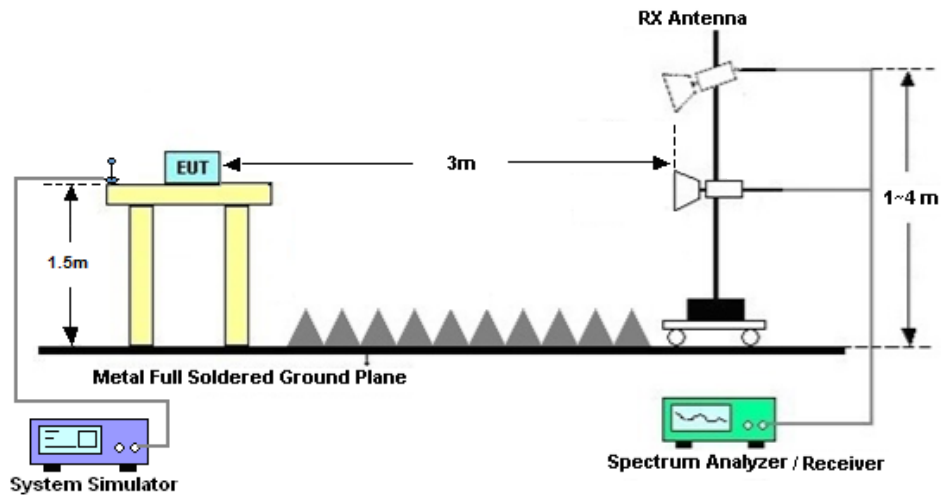
4.2.1 For radiated test below 30MHz



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.
$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$
$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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	Aug. 14, 2025	Jul. 02, 2026	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Aug. 14, 2025	Dec. 27, 2025	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Oct. 24, 2023	Aug. 14, 2025	Oct. 23, 2025	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2025	Aug. 14, 2025	Jul. 04, 2026	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2025	Aug. 14, 2025	Jul. 03, 2026	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 03, 2025	Aug. 14, 2025	Apr. 02, 2027	Radiation (03CH02-SZ)
LF Amplifier	EM Electronics	EM330	060788	20MHz~3GHz	Dec. 25, 2024	Aug. 14, 2025	Dec. 24, 2025	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 14, 2024	Aug. 14, 2025	Oct. 13, 2025	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Oct. 18, 2024	Aug. 14, 2025	Oct. 17, 2025	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Aug. 14, 2025	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Aug. 14, 2025	NCR	Radiation (03CH02-SZ)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 02, 2025	Jul. 17, 2025~Jul. 21, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct. 14, 2024	Jul. 17, 2025~Jul. 21, 2025	Oct. 13, 2025	Conducted (TH01-SZ)
Power Divider	Titan	P02N005180	923402	0.4GHz~26.5GHz	Nov. 08, 2024	Jul. 17, 2025~Jul. 21, 2025	Nov. 07, 2025	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 02, 2025	Jul. 17, 2025~Jul. 21, 2025	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 (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.47 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.31 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

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



Appendix A. Test Results of Conducted Test

Test Engineer :	Nina Cheng	Temperature :	24~26°C
		Relative Humidity :	50~53%

Conducted Output Power(Average power) and EIRP

LTE Band 48_Ant10:

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	24.06	24.11	23.98	0.1432	0.1449	0.1406
20	QPSK	1	49	23.96	23.97	23.97	0.1400	0.1403	0.1403
20	QPSK	1	99	23.97	23.94	23.94	0.1403	0.1393	0.1393
20	QPSK	50	0	23.40	23.38	23.28	0.1230	0.1225	0.1197
20	QPSK	50	24	23.22	23.30	23.20	0.1180	0.1202	0.1175
20	QPSK	50	50	23.32	23.26	23.22	0.1208	0.1191	0.1180
20	QPSK	100	0	23.25	23.19	23.23	0.1189	0.1172	0.1183
20	16QAM	1	0	23.11	23.06	23.05	0.1151	0.1138	0.1135
20	16QAM	1	49	23.10	23.18	23.20	0.1148	0.1169	0.1175
20	16QAM	1	99	23.17	23.19	23.25	0.1167	0.1172	0.1189
20	16QAM	50	0	22.30	22.31	22.29	0.0955	0.0957	0.0953
20	16QAM	50	24	22.23	22.30	22.34	0.0940	0.0955	0.0964
20	16QAM	50	50	22.32	22.22	22.23	0.0959	0.0938	0.0940
20	16QAM	100	0	22.29	22.19	22.24	0.0953	0.0931	0.0942
20	64QAM	1	0	22.27	22.30	22.21	0.0948	0.0955	0.0935
20	64QAM	1	49	22.32	22.33	22.25	0.0959	0.0962	0.0944
20	64QAM	1	99	22.24	22.21	22.18	0.0942	0.0935	0.0929
20	64QAM	50	0	21.31	21.23	21.30	0.0760	0.0746	0.0759
20	64QAM	50	24	21.34	21.29	21.26	0.0766	0.0757	0.0752
20	64QAM	50	50	21.24	21.17	21.27	0.0748	0.0736	0.0753
20	64QAM	100	0	21.20	21.21	21.30	0.0741	0.0743	0.0759
20	256QAM	1	0	19.06	19.17	19.14	0.0453	0.0465	0.0461
20	256QAM	1	49	19.17	19.21	19.24	0.0465	0.0469	0.0472
20	256QAM	1	99	19.18	19.10	19.14	0.0466	0.0457	0.0461
20	256QAM	50	0	19.30	19.27	19.26	0.0479	0.0475	0.0474
20	256QAM	50	24	19.33	19.20	19.20	0.0482	0.0468	0.0468
20	256QAM	50	50	19.29	19.32	19.26	0.0478	0.0481	0.0474
20	256QAM	100	0	19.32	19.23	19.23	0.0481	0.0471	0.0471
Channel				55315	55990	56665	EIRP(W)		
Frequency (MHz)				3557.5	3625	3692.5	L	M	H
15	QPSK	1	0	23.99	24.04	23.89	0.1409	0.1426	0.1377
15	QPSK	1	37	23.83	23.83	23.96	0.1358	0.1358	0.1400
15	QPSK	1	74	23.94	23.86	23.91	0.1393	0.1368	0.1384
15	QPSK	36	0	23.36	23.26	23.16	0.1219	0.1191	0.1164
15	QPSK	36	20	23.17	23.17	23.15	0.1167	0.1167	0.1161



15	QPSK	36	39	23.30	23.19	23.08	0.1202	0.1172	0.1143
15	QPSK	75	0	23.21	23.16	23.20	0.1178	0.1164	0.1175
15	16QAM	1	0	23.05	23.02	22.93	0.1135	0.1127	0.1104
15	16QAM	1	37	22.96	23.14	23.05	0.1112	0.1159	0.1135
15	16QAM	1	74	23.02	23.13	23.14	0.1127	0.1156	0.1159
15	16QAM	36	0	22.19	22.26	22.14	0.0931	0.0946	0.0920
15	16QAM	36	20	22.17	22.24	22.27	0.0927	0.0942	0.0948
15	16QAM	36	39	22.21	22.15	22.12	0.0935	0.0923	0.0916
15	16QAM	75	0	22.17	22.07	22.20	0.0927	0.0906	0.0933
15	64QAM	1	0	22.18	22.20	22.17	0.0929	0.0933	0.0927
15	64QAM	1	37	22.26	22.27	22.16	0.0946	0.0948	0.0925
15	64QAM	1	74	22.16	22.15	22.15	0.0925	0.0923	0.0923
15	64QAM	36	0	21.24	21.10	21.23	0.0748	0.0724	0.0746
15	64QAM	36	20	21.26	21.24	21.25	0.0752	0.0748	0.0750
15	64QAM	36	39	21.12	21.14	21.14	0.0728	0.0731	0.0731
15	64QAM	75	0	21.12	21.14	21.17	0.0728	0.0731	0.0736
15	256QAM	1	0	19.02	19.14	19.04	0.0449	0.0461	0.0451
15	256QAM	1	37	19.16	19.15	19.22	0.0463	0.0462	0.0470
15	256QAM	1	74	19.07	19.01	18.99	0.0454	0.0448	0.0446
15	256QAM	36	0	19.15	19.18	19.17	0.0462	0.0466	0.0465
15	256QAM	36	20	19.30	19.16	19.13	0.0479	0.0463	0.0460
15	256QAM	36	39	19.16	19.31	19.17	0.0463	0.0480	0.0465
15	256QAM	75	0	19.26	19.12	19.16	0.0474	0.0459	0.0463
Channel				55290	55990	56690	EIRP(W)		
Frequency (MHz)				3555	3625	3695	L	M	H
10	QPSK	1	0	23.94	24.10	23.95	0.1393	0.1445	0.1396
10	QPSK	1	25	23.89	23.87	23.95	0.1377	0.1371	0.1396
10	QPSK	1	49	23.87	23.85	23.89	0.1371	0.1365	0.1377
10	QPSK	25	0	23.29	23.37	23.14	0.1199	0.1222	0.1159
10	QPSK	25	12	23.19	23.18	23.14	0.1172	0.1169	0.1159
10	QPSK	25	25	23.19	23.16	23.07	0.1172	0.1164	0.1140
10	QPSK	50	0	23.16	23.14	23.16	0.1164	0.1159	0.1164
10	16QAM	1	0	23.05	22.96	22.93	0.1135	0.1112	0.1104
10	16QAM	1	25	23.01	23.13	23.09	0.1125	0.1156	0.1146
10	16QAM	1	49	23.10	23.17	23.16	0.1148	0.1167	0.1164
10	16QAM	25	0	22.16	22.17	22.25	0.0925	0.0927	0.0944
10	16QAM	25	12	22.13	22.16	22.22	0.0918	0.0925	0.0938
10	16QAM	25	25	22.30	22.07	22.22	0.0955	0.0906	0.0938
10	16QAM	50	0	22.27	22.10	22.15	0.0948	0.0912	0.0923
10	64QAM	1	0	22.22	22.25	22.16	0.0938	0.0944	0.0925
10	64QAM	1	25	22.24	22.31	22.19	0.0942	0.0957	0.0931
10	64QAM	1	49	22.17	22.16	22.07	0.0927	0.0925	0.0906
10	64QAM	25	0	21.19	21.13	21.26	0.0740	0.0729	0.0752
10	64QAM	25	12	21.28	21.19	21.17	0.0755	0.0740	0.0736
10	64QAM	25	25	21.21	21.11	21.21	0.0743	0.0726	0.0743
10	64QAM	50	0	21.14	21.14	21.27	0.0731	0.0731	0.0753
10	256QAM	1	0	18.93	19.11	19.12	0.0440	0.0458	0.0459
10	256QAM	1	25	19.10	19.20	19.16	0.0457	0.0468	0.0463
10	256QAM	1	49	19.13	19.07	19.05	0.0460	0.0454	0.0452
10	256QAM	25	0	19.17	19.13	19.16	0.0465	0.0460	0.0463



10	256QAM	25	12	19.23	19.12	19.08	0.0471	0.0459	0.0455
10	256QAM	25	25	19.28	19.31	19.22	0.0476	0.0480	0.0470
10	256QAM	50	0	19.31	19.12	19.19	0.0480	0.0459	0.0467
Channel				55265	55990	56715	EIRP(W)		
Frequency (MHz)				3552.5	3625	3697.5	L	M	H
5	QPSK	1	0	23.97	24.07	23.91	0.1403	0.1435	0.1384
5	QPSK	1	12	23.89	23.92	23.85	0.1377	0.1387	0.1365
5	QPSK	1	24	23.90	23.89	23.88	0.1380	0.1377	0.1374
5	QPSK	12	0	23.27	23.27	23.14	0.1194	0.1194	0.1159
5	QPSK	12	7	23.18	23.15	23.10	0.1169	0.1161	0.1148
5	QPSK	12	13	23.30	23.22	23.15	0.1202	0.1180	0.1161
5	QPSK	25	0	23.13	23.08	23.13	0.1156	0.1143	0.1156
5	16QAM	1	0	23.05	22.94	22.91	0.1135	0.1107	0.1099
5	16QAM	1	12	23.02	23.11	23.14	0.1127	0.1151	0.1159
5	16QAM	1	24	23.02	23.06	23.11	0.1127	0.1138	0.1151
5	16QAM	12	0	22.20	22.27	22.23	0.0933	0.0948	0.0940
5	16QAM	12	7	22.13	22.19	22.29	0.0918	0.0931	0.0953
5	16QAM	12	13	22.24	22.19	22.09	0.0942	0.0931	0.0910
5	16QAM	25	0	22.22	22.17	22.22	0.0938	0.0927	0.0938
5	64QAM	1	0	22.23	22.23	22.15	0.0940	0.0940	0.0923
5	64QAM	1	12	22.19	22.29	22.10	0.0931	0.0953	0.0912
5	64QAM	1	24	22.17	22.06	22.15	0.0927	0.0904	0.0923
5	64QAM	12	0	21.30	21.19	21.17	0.0759	0.0740	0.0736
5	64QAM	12	7	21.25	21.18	21.24	0.0750	0.0738	0.0748
5	64QAM	12	13	21.22	21.12	21.15	0.0745	0.0728	0.0733
5	64QAM	25	0	21.10	21.14	21.18	0.0724	0.0731	0.0738
5	256QAM	1	0	19.01	19.13	19.10	0.0448	0.0460	0.0457
5	256QAM	1	12	19.11	19.18	19.09	0.0458	0.0466	0.0456
5	256QAM	1	24	19.04	18.96	19.13	0.0451	0.0443	0.0460
5	256QAM	12	0	19.20	19.26	19.17	0.0468	0.0474	0.0465
5	256QAM	12	7	19.28	19.07	19.08	0.0476	0.0454	0.0455
5	256QAM	12	13	19.15	19.24	19.19	0.0462	0.0472	0.0467
5	256QAM	25	0	19.25	19.16	19.21	0.0473	0.0463	0.0469



LTE Band 48C_Ant10:

Combination 20MHz+20MHz (100RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L 55340_55538	QPSK	Max	0	Max	0	21.70	0.0832
	QPSK	1	0	1	Max	15.32	0.0191
	QPSK	1	Max	1	0	23.60	0.1288
M 55891_56089	QPSK	Max	0	Max	0	21.78	0.0847
	QPSK	1	0	1	Max	15.37	0.0194
	QPSK	1	Max	1	0	23.70	0.1318
H 56442_56640	QPSK	Max	0	Max	0	21.55	0.0804
	QPSK	1	0	1	Max	15.18	0.0185
	QPSK	1	Max	1	0	23.48	0.1253
L 55340_55538	16QAM	Max	0	Max	0	20.75	0.0668
	16QAM	1	0	1	Max	15.14	0.0184
	16QAM	1	Max	1	0	22.64	0.1033
M 55891_56089	16QAM	Max	0	Max	0	20.79	0.0675
	16QAM	1	0	1	Max	15.23	0.0187
	16QAM	1	Max	1	0	22.73	0.1054
H 56442_56640	16QAM	Max	0	Max	0	20.63	0.0650
	16QAM	1	0	1	Max	15.04	0.0179
	16QAM	1	Max	1	0	22.56	0.1014
L 55340_55538	64QAM	Max	0	Max	0	20.75	0.0668
	64QAM	1	0	1	Max	15.31	0.0191
	64QAM	1	Max	1	0	20.65	0.0653
M 55891_56089	64QAM	Max	0	Max	0	20.86	0.0685
	64QAM	1	0	1	Max	15.35	0.0193
	64QAM	1	Max	1	0	20.70	0.0661
H 56442_56640	64QAM	Max	0	Max	0	20.73	0.0665
	64QAM	1	0	1	Max	15.27	0.0189
	64QAM	1	Max	1	0	20.63	0.0650
L 55340_55538	256QAM	Max	0	Max	0	18.75	0.0422
	256QAM	1	0	1	Max	15.16	0.0185
	256QAM	1	Max	1	0	18.60	0.0407
M 55891_56089	256QAM	Max	0	Max	0	18.83	0.0430
	256QAM	1	0	1	Max	15.20	0.0186
	256QAM	1	Max	1	0	18.72	0.0419
H 56442_56640	256QAM	Max	0	Max	0	18.65	0.0412
	256QAM	1	0	1	Max	15.08	0.0181
	256QAM	1	Max	1	0	18.53	0.0401
Combination 20MHz+15MHz (100RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L 55340_55511	QPSK	Max	0	Max	0	21.76	0.0843
	QPSK	1	0	1	Max	15.30	0.0191
	QPSK	1	Max	1	0	23.56	0.1276
M 55916_56087	QPSK	Max	0	Max	0	21.90	0.0871
	QPSK	1	0	1	Max	15.34	0.0192
	QPSK	1	Max	1	0	23.58	0.1282
H	QPSK	Max	0	Max	0	21.63	0.0818



56491_56662	QPSK	1	0	1	Max	15.19	0.0186
	QPSK	1	Max	1	0	23.46	0.1247
L 55340_55511	16QAM	Max	0	Max	0	20.75	0.0668
	16QAM	1	0	1	Max	15.30	0.0191
	16QAM	1	Max	1	0	22.66	0.1038
M 55916_56087	16QAM	Max	0	Max	0	20.90	0.0692
	16QAM	1	0	1	Max	15.34	0.0192
	16QAM	1	Max	1	0	22.74	0.1057
H 56491_56662	16QAM	Max	0	Max	0	20.64	0.0652
	16QAM	1	0	1	Max	15.15	0.0184
	16QAM	1	Max	1	0	22.53	0.1007
L 55340_55511	64QAM	Max	0	Max	0	20.74	0.0667
	64QAM	1	0	1	Max	15.28	0.0190
	64QAM	1	Max	1	0	20.74	0.0667
M 55916_56087	64QAM	Max	0	Max	0	20.77	0.0671
	64QAM	1	0	1	Max	15.42	0.0196
	64QAM	1	Max	1	0	20.85	0.0684
H 56491_56662	64QAM	Max	0	Max	0	20.71	0.0662
	64QAM	1	0	1	Max	15.18	0.0185
	64QAM	1	Max	1	0	20.69	0.0659
L 55340_55511	256QAM	Max	0	Max	0	18.80	0.0427
	256QAM	1	0	1	Max	15.17	0.0185
	256QAM	1	Max	1	0	18.65	0.0412
M 55916_56087	256QAM	Max	0	Max	0	18.85	0.0432
	256QAM	1	0	1	Max	15.24	0.0188
	256QAM	1	Max	1	0	18.67	0.0414
H 56491_56662	256QAM	Max	0	Max	0	18.69	0.0416
	256QAM	1	0	1	Max	15.04	0.0179
	256QAM	1	Max	1	0	18.62	0.0409
Combination 15MHz+20MHz (100RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L 55318_55489	QPSK	Max	0	Max	0	21.65	0.0822
	QPSK	1	0	1	Max	15.19	0.0186
	QPSK	1	Max	1	0	23.45	0.1245
M 55893_56064	QPSK	Max	0	Max	0	21.79	0.0849
	QPSK	1	0	1	Max	15.23	0.0187
	QPSK	1	Max	1	0	23.47	0.1250
H 56469_56640	QPSK	Max	0	Max	0	21.52	0.0798
	QPSK	1	0	1	Max	15.08	0.0181
	QPSK	1	Max	1	0	23.35	0.1216
L 55318_55489	16QAM	Max	0	Max	0	20.64	0.0652
	16QAM	1	0	1	Max	15.19	0.0186
	16QAM	1	Max	1	0	22.55	0.1012
M 55893_56064	16QAM	Max	0	Max	0	20.79	0.0675
	16QAM	1	0	1	Max	15.23	0.0187
	16QAM	1	Max	1	0	22.63	0.1030
H 56469_56640	16QAM	Max	0	Max	0	20.53	0.0635
	16QAM	1	0	1	Max	15.04	0.0179
	16QAM	1	Max	1	0	22.42	0.0982



L 55318_55489	64QAM	Max	0	Max	0	20.63	0.0650
	64QAM	1	0	1	Max	15.17	0.0185
	64QAM	1	Max	1	0	20.63	0.0650
M 55893_56064	64QAM	Max	0	Max	0	20.66	0.0655
	64QAM	1	0	1	Max	15.31	0.0191
	64QAM	1	Max	1	0	20.74	0.0667
H 56469_56640	64QAM	Max	0	Max	0	20.60	0.0646
	64QAM	1	0	1	Max	15.07	0.0181
	64QAM	1	Max	1	0	20.58	0.0643
L 55318_55489	256QAM	Max	0	Max	0	18.69	0.0416
	256QAM	1	0	1	Max	15.06	0.0180
	256QAM	1	Max	1	0	18.54	0.0402
M 55893_56064	256QAM	Max	0	Max	0	18.74	0.0421
	256QAM	1	0	1	Max	15.13	0.0183
	256QAM	1	Max	1	0	18.56	0.0404
H 56469_56640	256QAM	Max	0	Max	0	18.58	0.0406
	256QAM	1	0	1	Max	14.93	0.0175
	256QAM	1	Max	1	0	18.51	0.0399
Combination 20MHz+10MHz (100RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L 55340_55484	QPSK	Max	0	Max	0	21.47	0.0789
	QPSK	1	0	1	Max	15.09	0.0182
	QPSK	1	Max	1	0	23.37	0.1222
M 55941_56085	QPSK	Max	0	Max	0	21.55	0.0804
	QPSK	1	0	1	Max	15.14	0.0184
	QPSK	1	Max	1	0	23.47	0.1250
H 56541_56685	QPSK	Max	0	Max	0	21.32	0.0762
	QPSK	1	0	1	Max	14.95	0.0176
	QPSK	1	Max	1	0	23.25	0.1189
L 55340_55484	16QAM	Max	0	Max	0	20.52	0.0634
	16QAM	1	0	1	Max	14.91	0.0174
	16QAM	1	Max	1	0	22.41	0.0979
M 55941_56085	16QAM	Max	0	Max	0	20.56	0.0640
	16QAM	1	0	1	Max	15.00	0.0178
	16QAM	1	Max	1	0	22.50	0.1000
H 56541_56685	16QAM	Max	0	Max	0	20.40	0.0617
	16QAM	1	0	1	Max	14.81	0.0170
	16QAM	1	Max	1	0	22.33	0.0962
L 55340_55484	64QAM	Max	0	Max	0	20.52	0.0634
	64QAM	1	0	1	Max	15.08	0.0181
	64QAM	1	Max	1	0	20.42	0.0619
M 55941_56085	64QAM	Max	0	Max	0	20.63	0.0650
	64QAM	1	0	1	Max	15.12	0.0183
	64QAM	1	Max	1	0	20.47	0.0627
H 56541_56685	64QAM	Max	0	Max	0	20.50	0.0631
	64QAM	1	0	1	Max	15.04	0.0179
	64QAM	1	Max	1	0	20.40	0.0617
L 55340_55484	256QAM	Max	0	Max	0	18.52	0.0400
	256QAM	1	0	1	Max	14.93	0.0175



	256QAM	1	Max	1	0	18.37	0.0386
M 55941_56085	256QAM	Max	0	Max	0	18.60	0.0407
	256QAM	1	0	1	Max	14.97	0.0177
	256QAM	1	Max	1	0	18.49	0.0397
H 56541_56685	256QAM	Max	0	Max	0	18.42	0.0391
	256QAM	1	0	1	Max	14.85	0.0172
	256QAM	1	Max	1	0	18.30	0.0380
Combination 10MHz+20MHz (50RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L 55295_55439	QPSK	Max	0	Max	0	21.29	0.0757
	QPSK	1	0	1	Max	14.91	0.0174
	QPSK	1	Max	1	0	23.19	0.1172
M 55896_56040	QPSK	Max	0	Max	0	21.34	0.0766
	QPSK	1	0	1	Max	14.90	0.0174
	QPSK	1	Max	1	0	23.17	0.1167
H 56496_56640	QPSK	Max	0	Max	0	21.72	0.0836
	QPSK	1	0	1	Max	15.16	0.0185
	QPSK	1	Max	1	0	23.40	0.1230
L 55295_55439	16QAM	Max	0	Max	0	20.34	0.0608
	16QAM	1	0	1	Max	14.73	0.0167
	16QAM	1	Max	1	0	22.23	0.0940
M 55896_56040	16QAM	Max	0	Max	0	20.35	0.0610
	16QAM	1	0	1	Max	14.86	0.0172
	16QAM	1	Max	1	0	22.24	0.0942
H 56496_56640	16QAM	Max	0	Max	0	20.72	0.0664
	16QAM	1	0	1	Max	15.16	0.0185
	16QAM	1	Max	1	0	22.56	0.1014
L 55295_55439	64QAM	Max	0	Max	0	20.34	0.0608
	64QAM	1	0	1	Max	14.90	0.0174
	64QAM	1	Max	1	0	20.24	0.0594
M 55896_56040	64QAM	Max	0	Max	0	20.42	0.0619
	64QAM	1	0	1	Max	14.89	0.0173
	64QAM	1	Max	1	0	20.40	0.0617
H 56496_56640	64QAM	Max	0	Max	0	20.59	0.0644
	64QAM	1	0	1	Max	15.24	0.0188
	64QAM	1	Max	1	0	20.67	0.0656
L 55295_55439	256QAM	Max	0	Max	0	18.34	0.0384
	256QAM	1	0	1	Max	14.75	0.0168
	256QAM	1	Max	1	0	18.19	0.0371
M 55896_56040	256QAM	Max	0	Max	0	18.40	0.0389
	256QAM	1	0	1	Max	14.75	0.0168
	256QAM	1	Max	1	0	18.33	0.0383
H 56496_56640	256QAM	Max	0	Max	0	18.67	0.0414
	256QAM	1	0	1	Max	15.06	0.0180
	256QAM	1	Max	1	0	18.49	0.0397
Combination 20MHz+5MHz (100RB+25RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	Max	0	Max	0	21.88	0.0867



55340_55457	QPSK	1	0	1	Max	15.32	0.0191
	QPSK	1	Max	1	0	23.56	0.1276
M 55965_56082	QPSK	Max	0	Max	0	21.64	0.0820
	QPSK	1	0	1	Max	15.23	0.0187
H 56590_56707	QPSK	1	Max	1	0	23.56	0.1276
	QPSK	Max	0	Max	0	21.50	0.0794
H 56590_56707	QPSK	1	0	1	Max	15.06	0.0180
	QPSK	1	Max	1	0	23.33	0.1211
L 55340_55457	16QAM	Max	0	Max	0	20.88	0.0689
	16QAM	1	0	1	Max	15.32	0.0191
M 55965_56082	16QAM	1	Max	1	0	22.72	0.1052
	16QAM	Max	0	Max	0	20.65	0.0653
M 55965_56082	16QAM	1	0	1	Max	15.09	0.0182
	16QAM	1	Max	1	0	22.59	0.1021
H 56590_56707	16QAM	Max	0	Max	0	20.51	0.0632
	16QAM	1	0	1	Max	15.02	0.0179
H 56590_56707	16QAM	1	Max	1	0	22.40	0.0977
L 55340_55457	64QAM	Max	0	Max	0	20.75	0.0668
	64QAM	1	0	1	Max	15.40	0.0195
M 55965_56082	64QAM	1	Max	1	0	20.83	0.0681
	64QAM	Max	0	Max	0	20.72	0.0664
M 55965_56082	64QAM	1	0	1	Max	15.21	0.0187
	64QAM	1	Max	1	0	20.56	0.0640
H 56590_56707	64QAM	Max	0	Max	0	20.58	0.0643
	64QAM	1	0	1	Max	15.05	0.0180
H 56590_56707	64QAM	1	Max	1	0	20.56	0.0640
L 55340_55457	256QAM	Max	0	Max	0	18.83	0.0430
	256QAM	1	0	1	Max	15.22	0.0187
M 55965_56082	256QAM	1	Max	1	0	18.65	0.0412
	256QAM	Max	0	Max	0	18.69	0.0416
M 55965_56082	256QAM	1	0	1	Max	15.06	0.0180
	256QAM	1	Max	1	0	18.58	0.0406
H 56590_56707	256QAM	Max	0	Max	0	18.56	0.0404
	256QAM	1	0	1	Max	14.91	0.0174
	256QAM	1	Max	1	0	18.49	0.0397
Combination 5MHz+20MHz (25RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L 55273_55390	QPSK	Max	0	Max	0	21.36	0.0769
	QPSK	1	0	1	Max	14.98	0.0177
M 55898_5615	QPSK	1	Max	1	0	23.26	0.1191
	QPSK	Max	0	Max	0	21.41	0.0778
M 55898_5615	QPSK	1	0	1	Max	14.97	0.0177
	QPSK	1	Max	1	0	23.24	0.1186
H 56523_56640	QPSK	Max	0	Max	0	21.79	0.0849
	QPSK	1	0	1	Max	15.23	0.0187
H 56523_56640	QPSK	1	Max	1	0	23.47	0.1250
L 55273_55390	16QAM	Max	0	Max	0	20.41	0.0618
	16QAM	1	0	1	Max	14.80	0.0170
L 55273_55390	16QAM	1	Max	1	0	22.30	0.0955



M 55898_5615	16QAM	Max	0	Max	0	20.42	0.0619
	16QAM	1	0	1	Max	14.93	0.0175
	16QAM	1	Max	1	0	22.31	0.0957
H 56523_56640	16QAM	Max	0	Max	0	20.79	0.0675
	16QAM	1	0	1	Max	15.23	0.0187
	16QAM	1	Max	1	0	22.63	0.1030
L 55273_55390	64QAM	Max	0	Max	0	20.41	0.0618
	64QAM	1	0	1	Max	14.97	0.0177
	64QAM	1	Max	1	0	20.31	0.0604
M 55898_5615	64QAM	Max	0	Max	0	20.49	0.0630
	64QAM	1	0	1	Max	14.96	0.0176
	64QAM	1	Max	1	0	20.47	0.0627
H 56523_56640	64QAM	Max	0	Max	0	20.66	0.0655
	64QAM	1	0	1	Max	15.31	0.0191
	64QAM	1	Max	1	0	20.74	0.0667
L 55273_55390	256QAM	Max	0	Max	0	18.41	0.0390
	256QAM	1	0	1	Max	14.82	0.0171
	256QAM	1	Max	1	0	18.26	0.0377
M 55898_5615	256QAM	Max	0	Max	0	18.47	0.0395
	256QAM	1	0	1	Max	14.82	0.0171
	256QAM	1	Max	1	0	18.40	0.0389
H 56523_56640	256QAM	Max	0	Max	0	18.74	0.0421
	256QAM	1	0	1	Max	15.13	0.0183
	256QAM	1	Max	1	0	18.56	0.0404



LTE Band 48

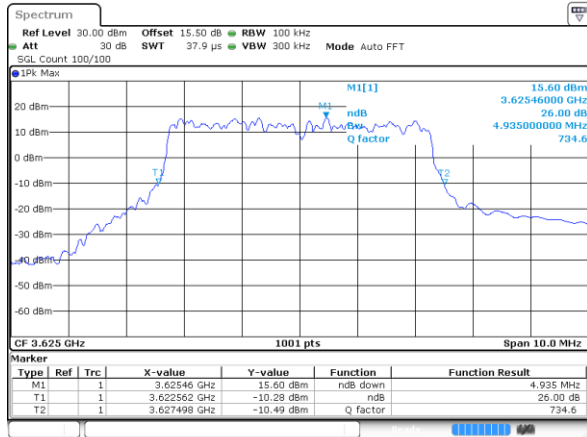
26dB Bandwidth

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	-	-	-	-	4.94	4.94	9.85	9.67	14.42	14.33	18.98	18.74



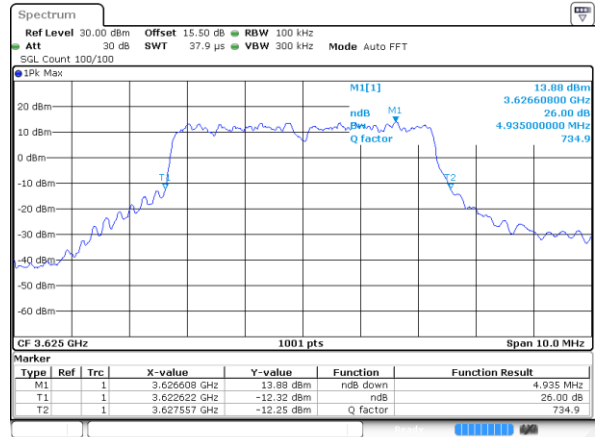
LTE Band 48

Middle Channel / 5MHz / QPSK



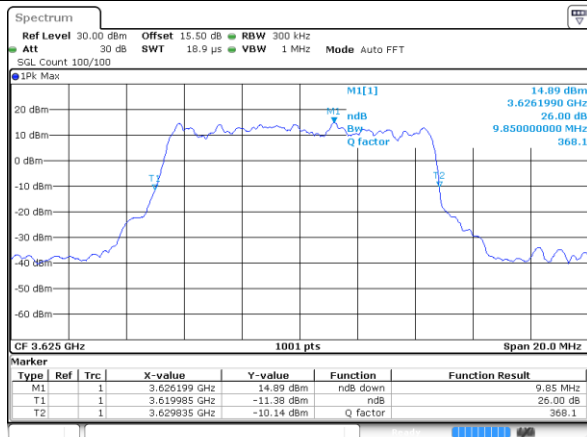
Date: 17 JUL 2025 13:42:47

Middle Channel / 5MHz / 16QAM



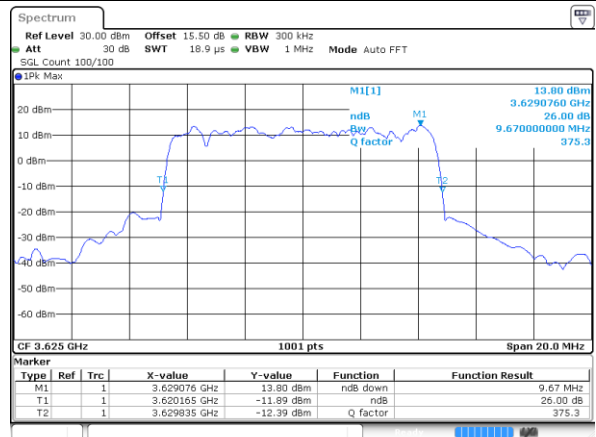
Date: 17 JUL 2025 13:43:12

Middle Channel / 10MHz / QPSK



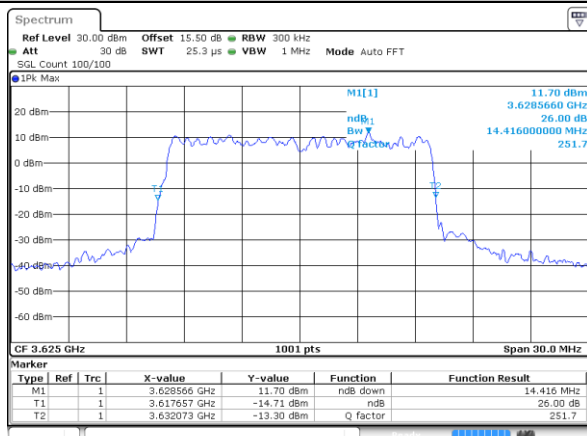
Date: 17 JUL 2025 14:24:31

Middle Channel / 10MHz / 16QAM



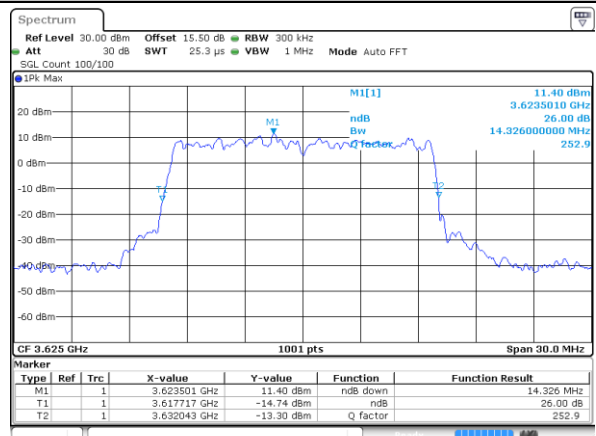
Date: 17 JUL 2025 14:24:57

Middle Channel / 15MHz / QPSK



Date: 17 JUL 2025 17:12:17

Middle Channel / 15MHz / 16QAM

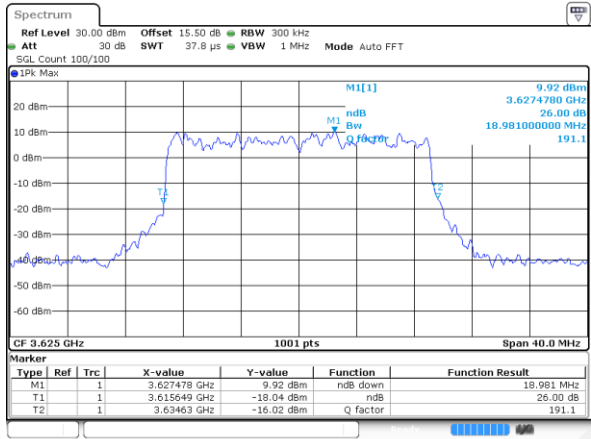


Date: 17 JUL 2025 17:12:43

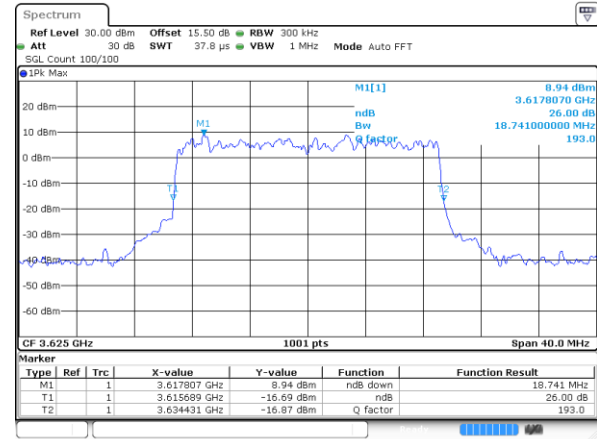


LTE Band 48

Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM





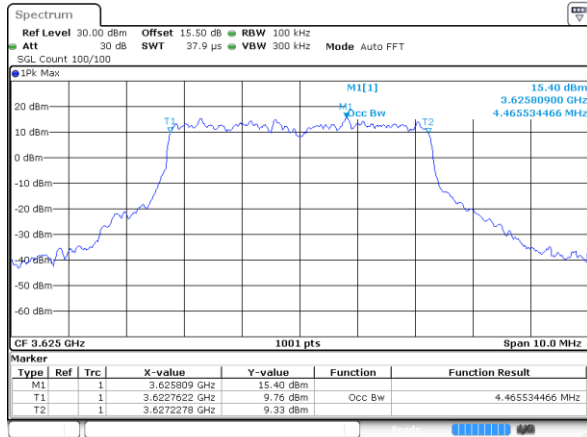
Occupied Bandwidth

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	-	-	-	-	4.47	4.48	8.99	9.09	13.43	13.40	17.98	17.90

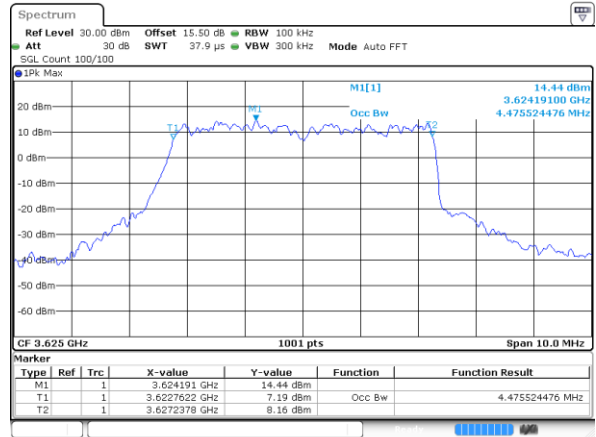


LTE Band 48

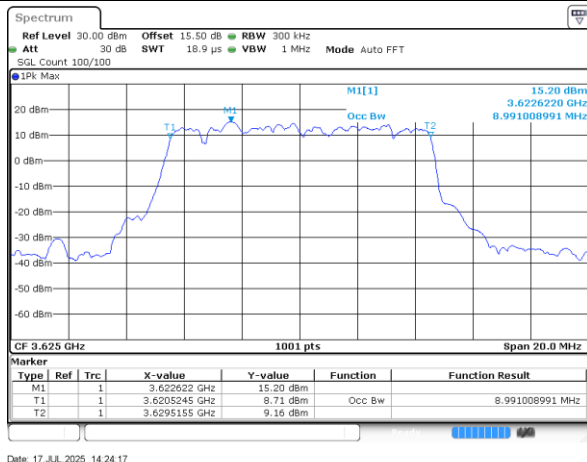
Middle Channel / 5MHz / QPSK



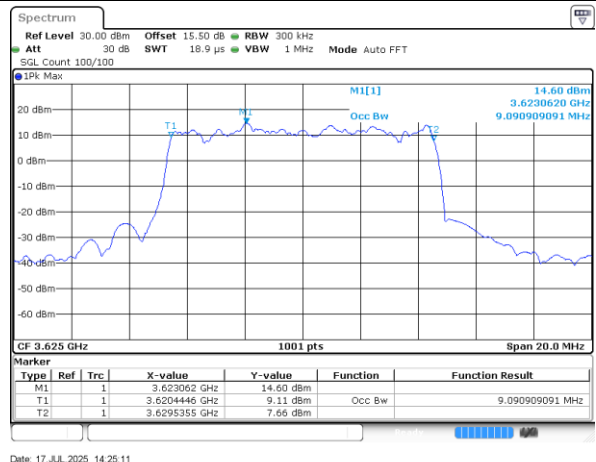
Middle Channel / 5MHz / 16QAM



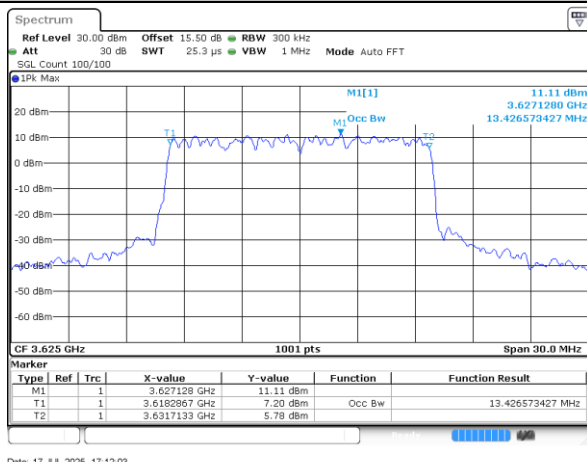
Middle Channel / 10MHz / QPSK



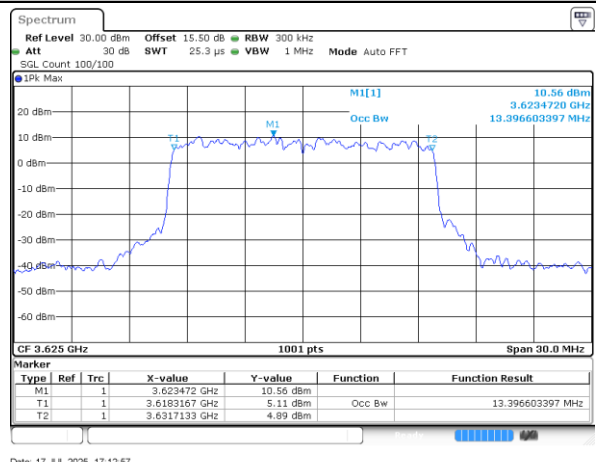
Middle Channel / 10MHz / 16QAM



Middle Channel / 15MHz / QPSK



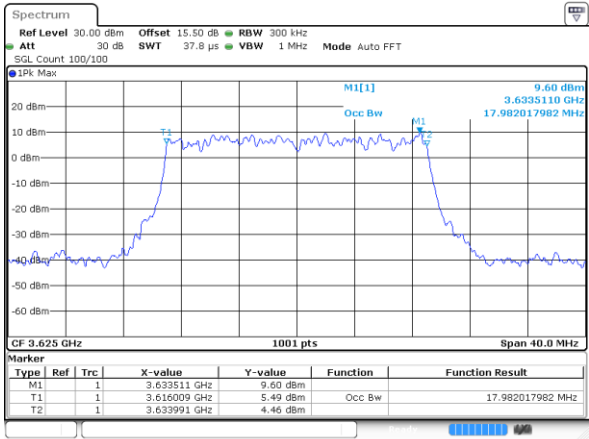
Middle Channel / 15MHz / 16QAM



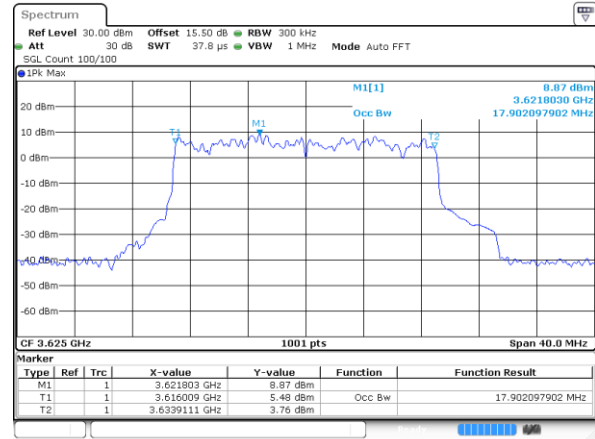


LTE Band 48

Middle Channel / 20MHz / QPSK



Middle Channel / 20MHz / 16QAM



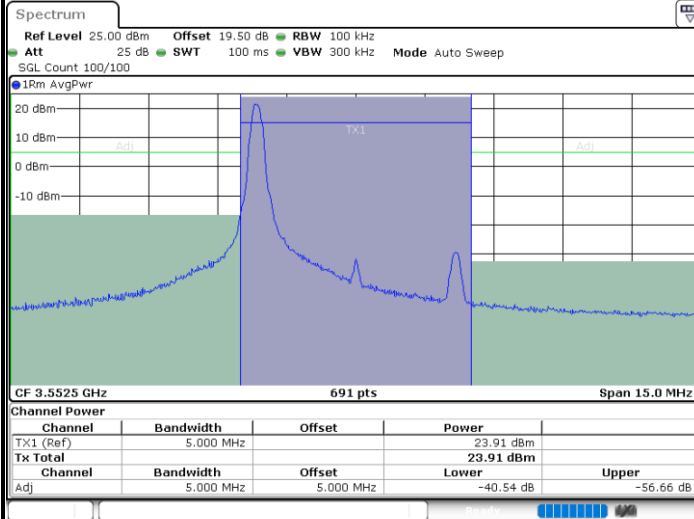


ACLR

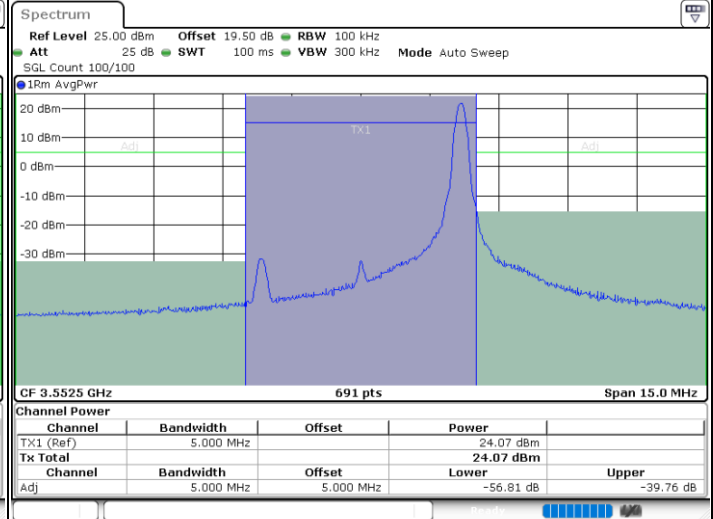
LTE Band 48 / 5MHz

QPSK

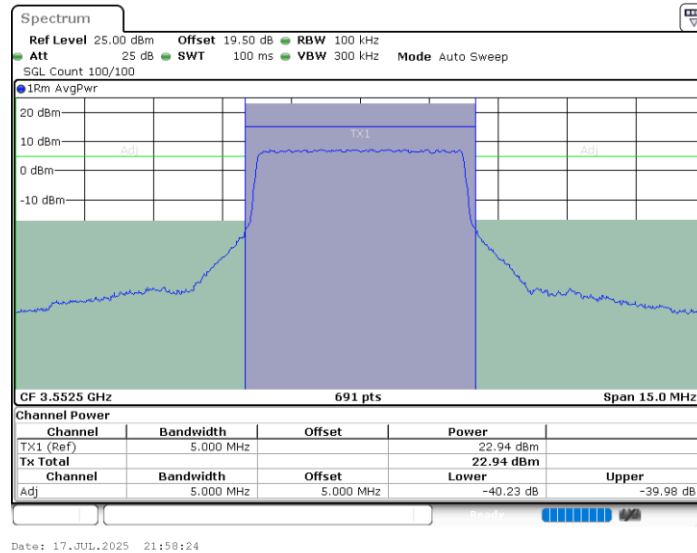
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / FullRB

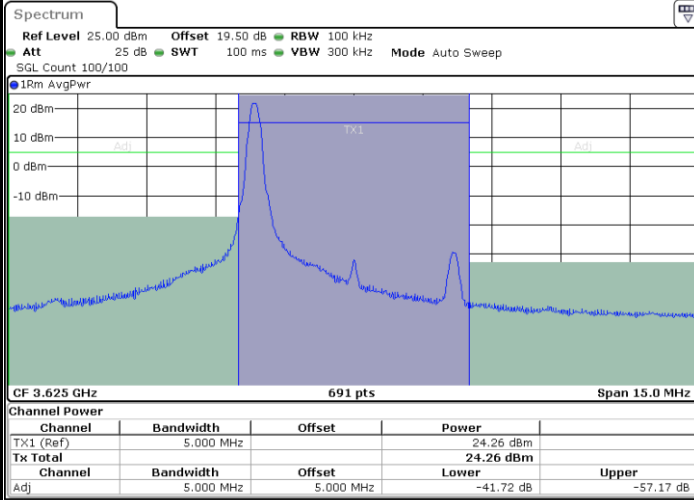




LTE Band 48 / 5MHz

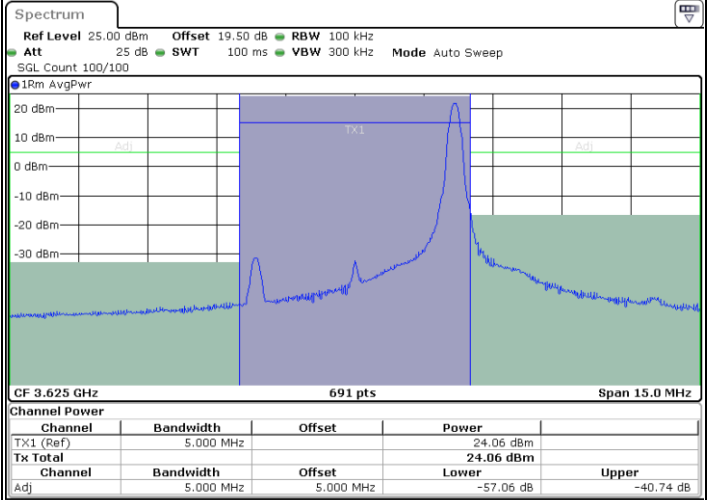
QPSK

Middle Channel / 1RB0



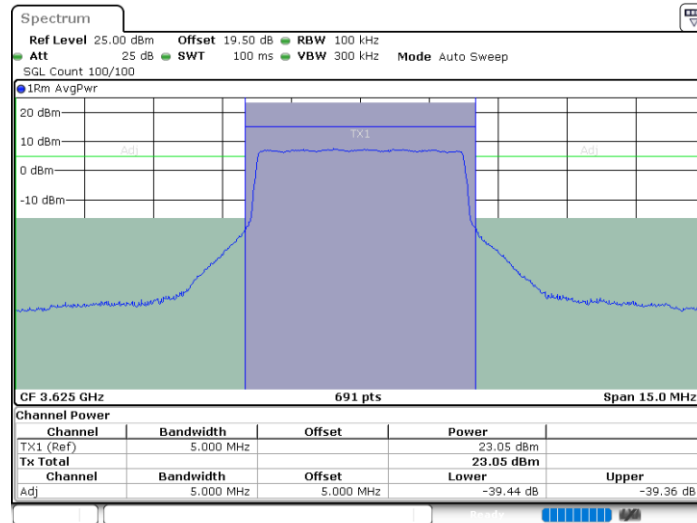
Date: 17.JUL.2025 22:07:11

Middle Channel / 1RBmax



Date: 17.JUL.2025 22:06:28

Middle Channel / FullRB



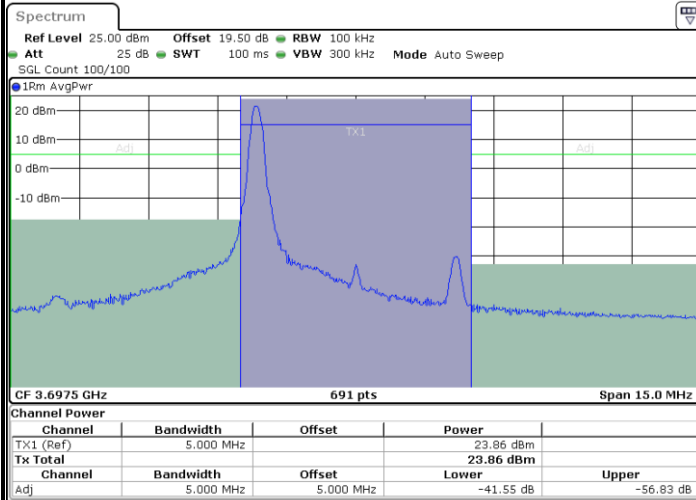
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LTE Band 48 / 5MHz

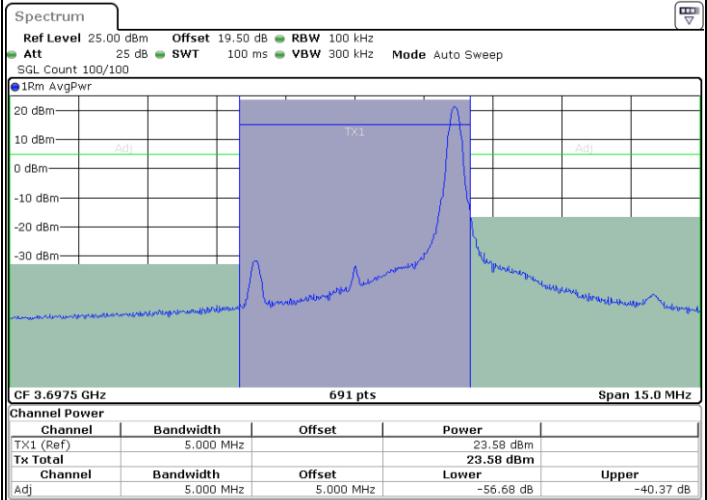
QPSK

Highest Channel / 1RB0



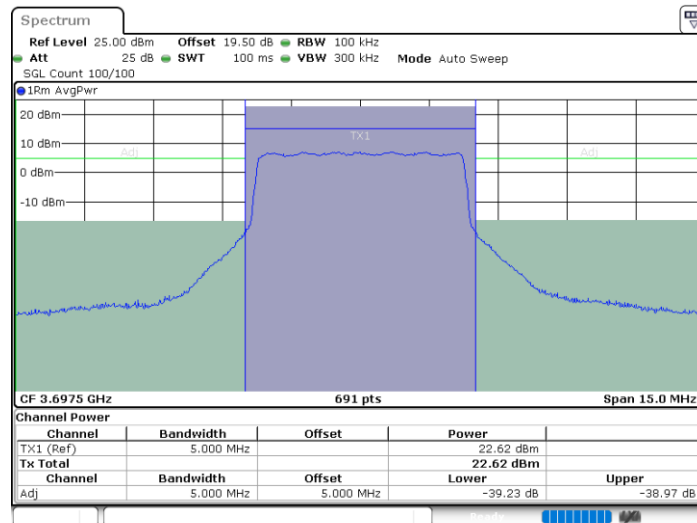
Date: 17.JUL.2025 22:15:57

Highest Channel / 1RBmax



Date: 17.JUL.2025 22:15:13

Highest Channel / FullRB



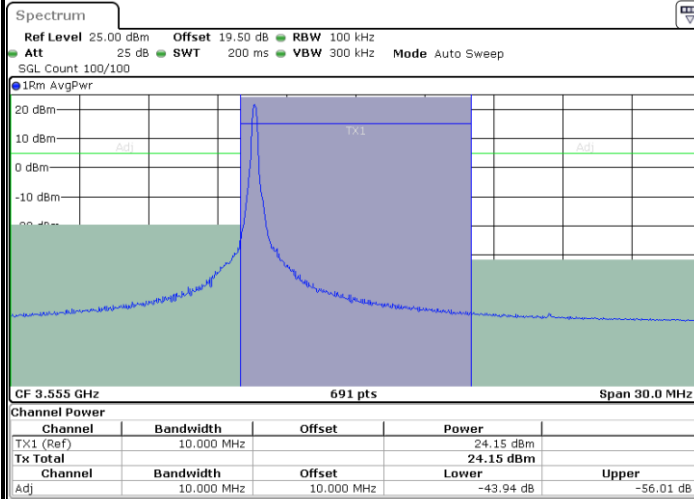
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LTE Band 48 / 10MHz

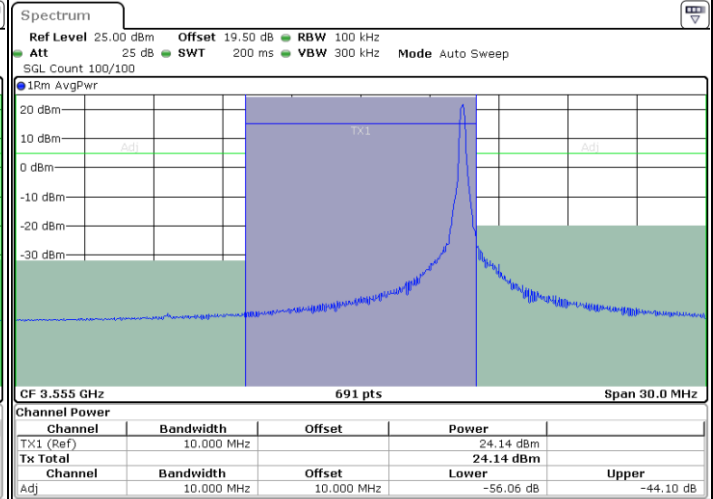
QPSK

Lowest Channel / 1RB0



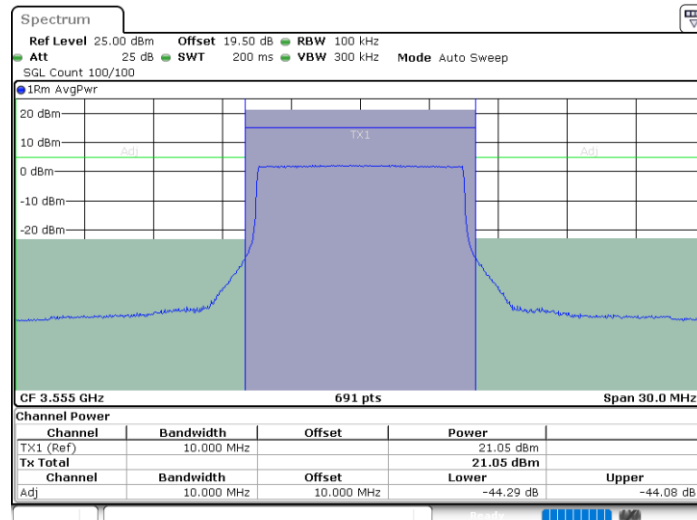
Date: 17.JUL.2025 22:36:02

Lowest Channel / 1RBmax



Date: 17.JUL.2025 22:35:17

Lowest Channel / FullRB



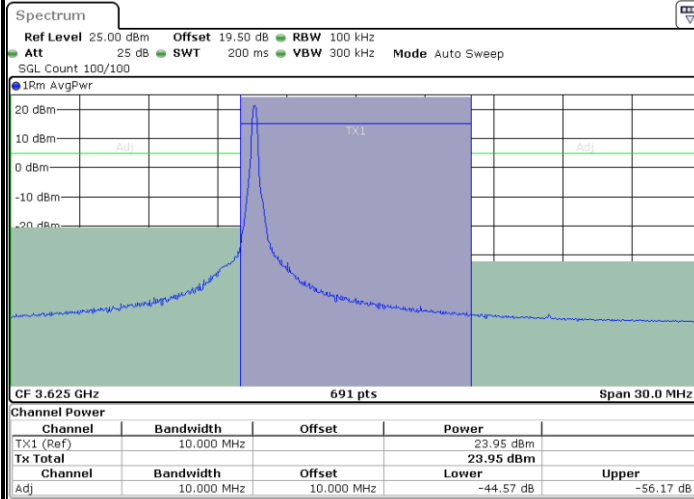
Date: 17.JUL.2025 22:31:29



LTE Band 48 / 10MHz

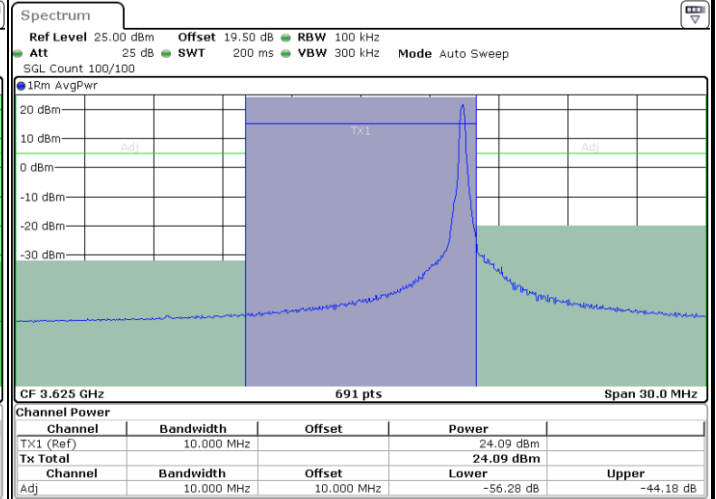
QPSK

Middle Channel / 1RB0



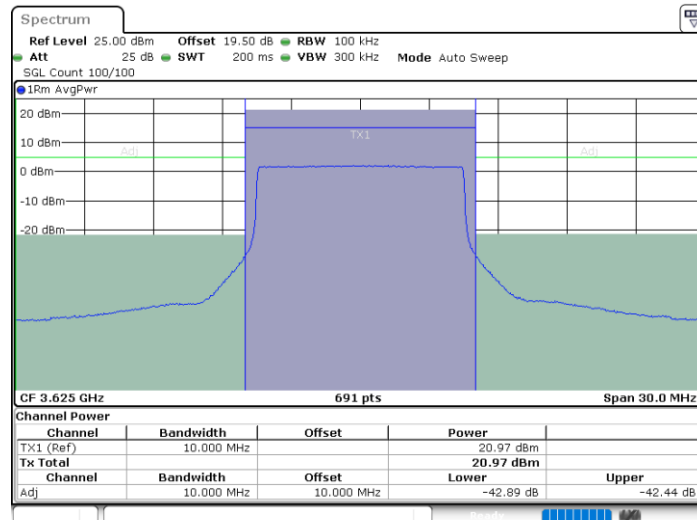
Date: 17.JUL.2025 22:39:49

Middle Channel / 1RBmax

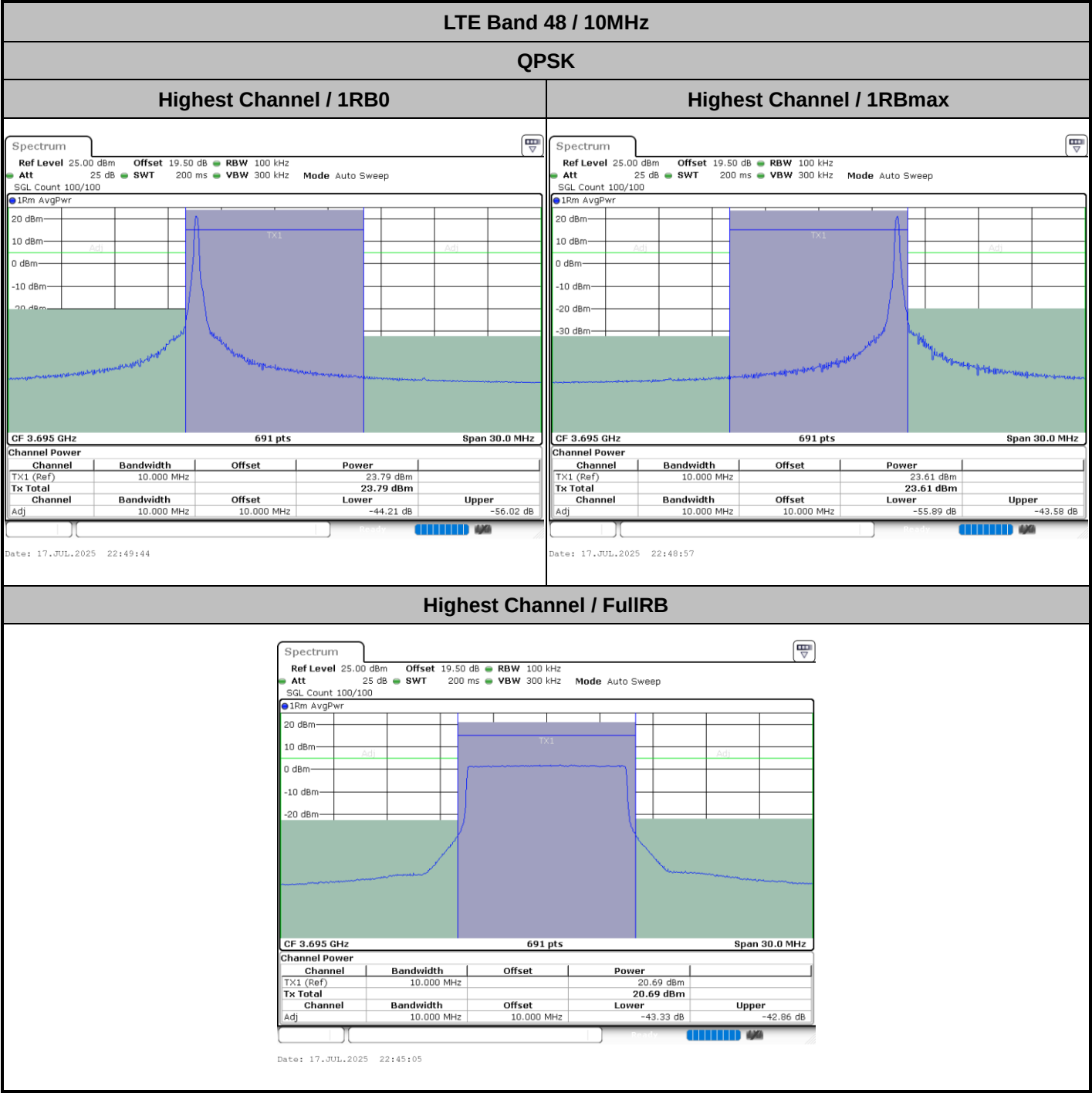


Date: 17.JUL.2025 22:40:34

Middle Channel / FullRB



Date: 17.JUL.2025 22:44:19

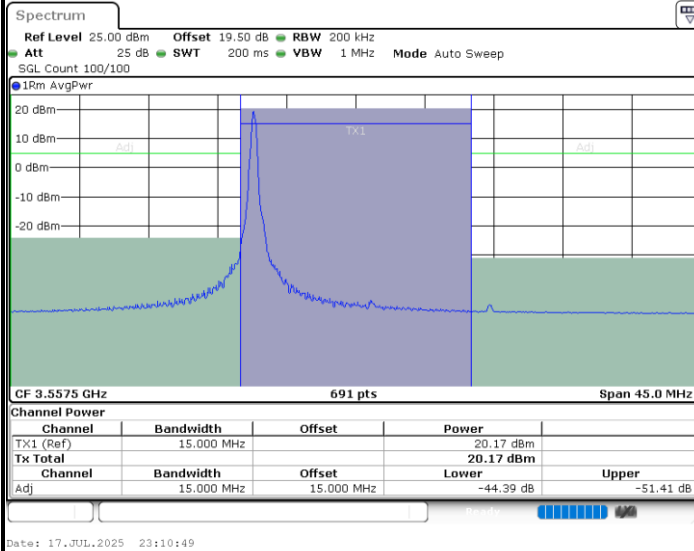




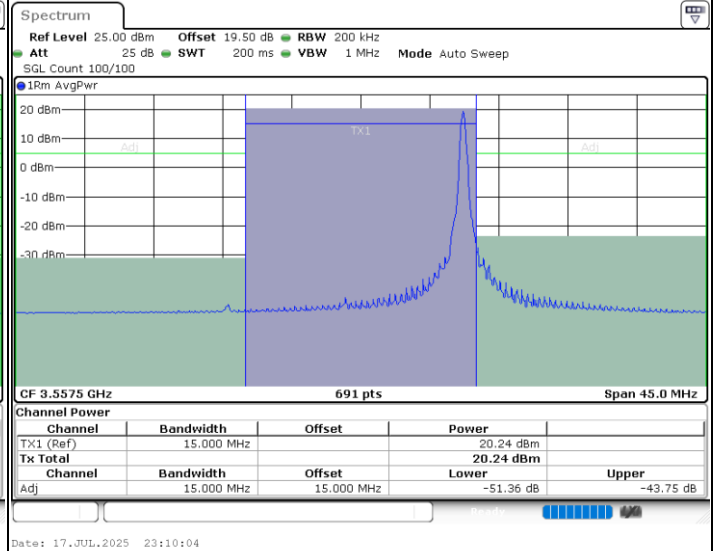
LTE Band 48 / 15MHz

QPSK

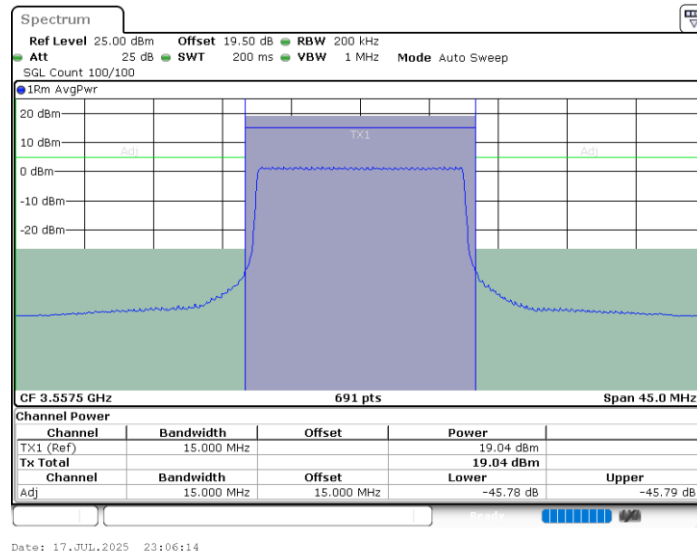
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / FullRB

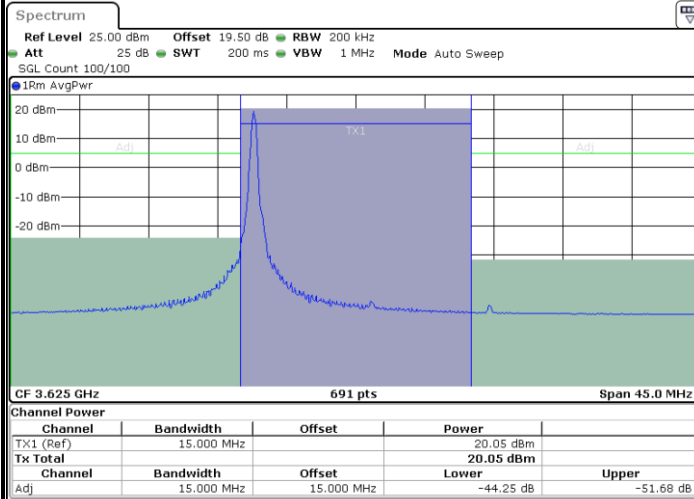




LTE Band 48 / 15MHz

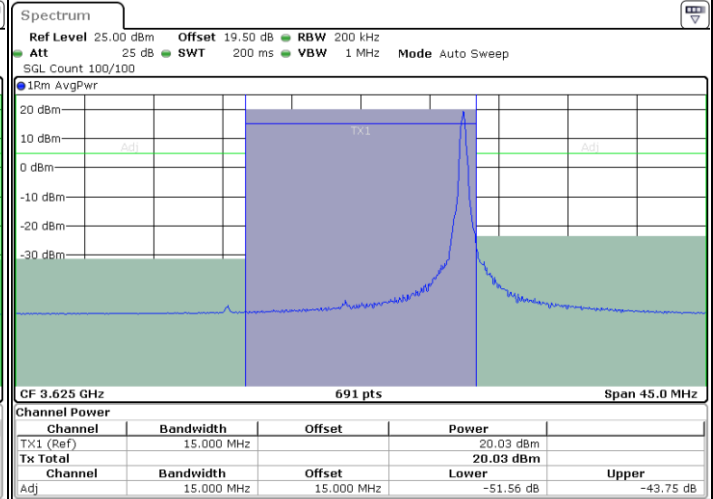
QPSK

Middle Channel / 1RB0



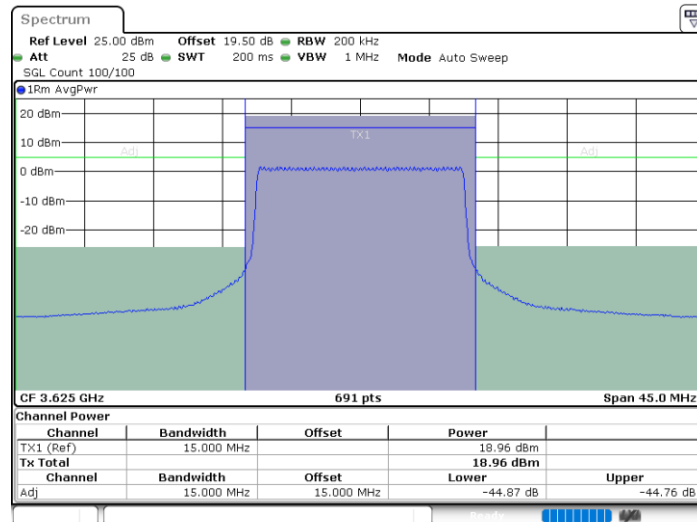
Date: 17.JUL.2025 23:14:37

Middle Channel / 1RBmax

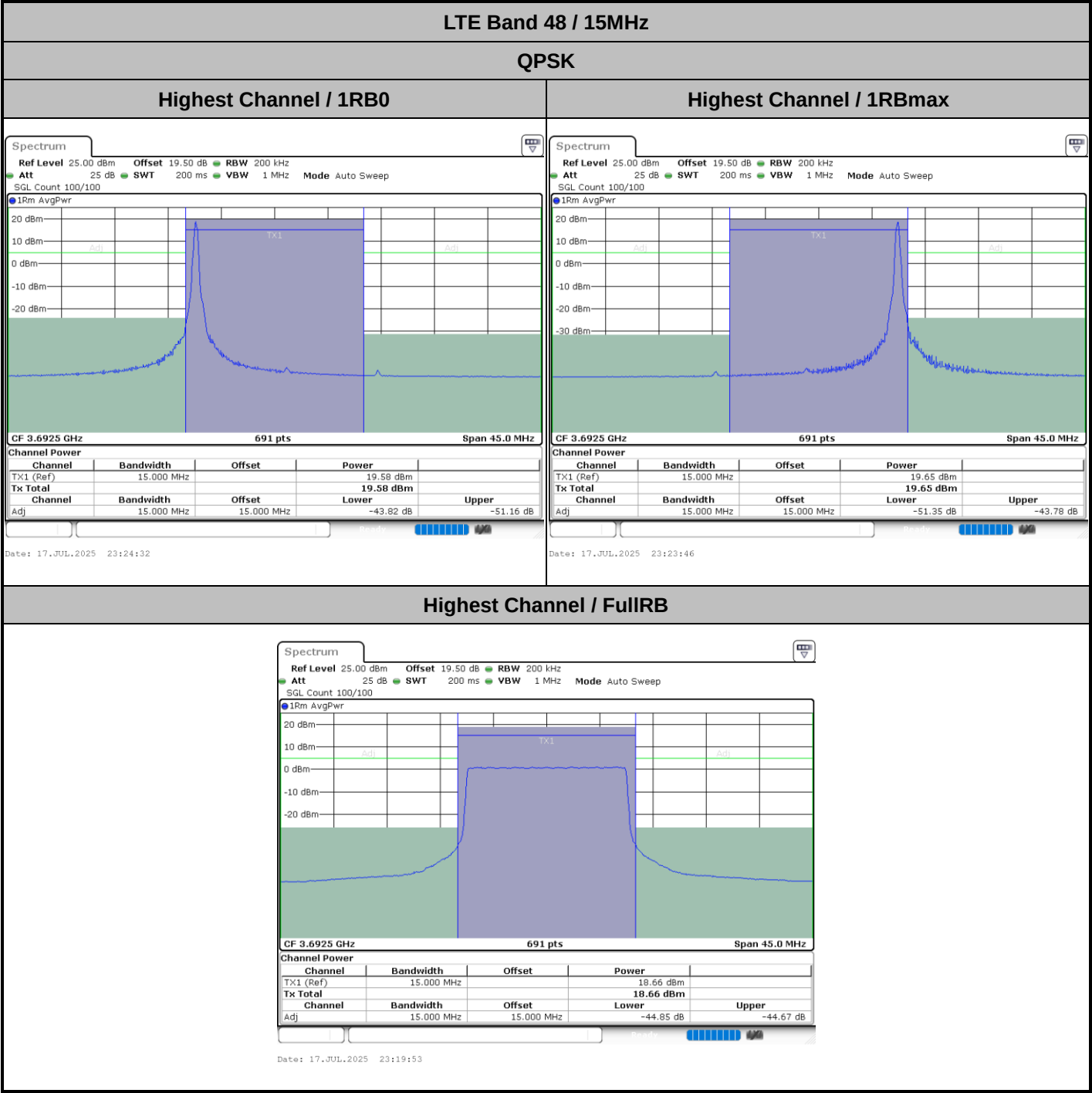


Date: 17.JUL.2025 23:15:22

Middle Channel / FullIRB



Date: 17.JUL.2025 23:19:07

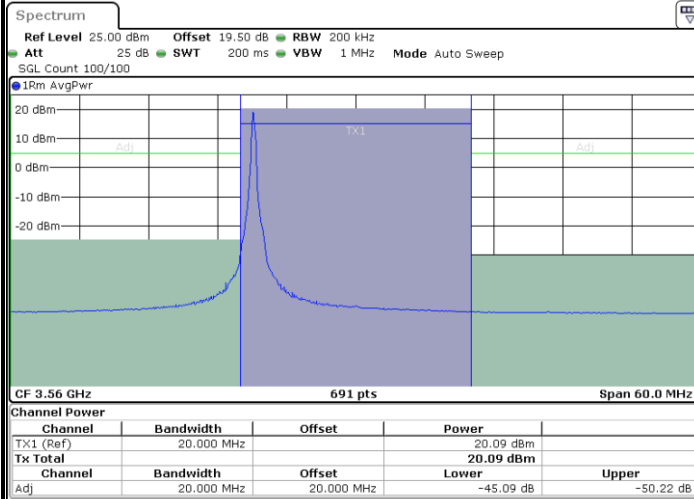




LTE Band 48 / 20MHz

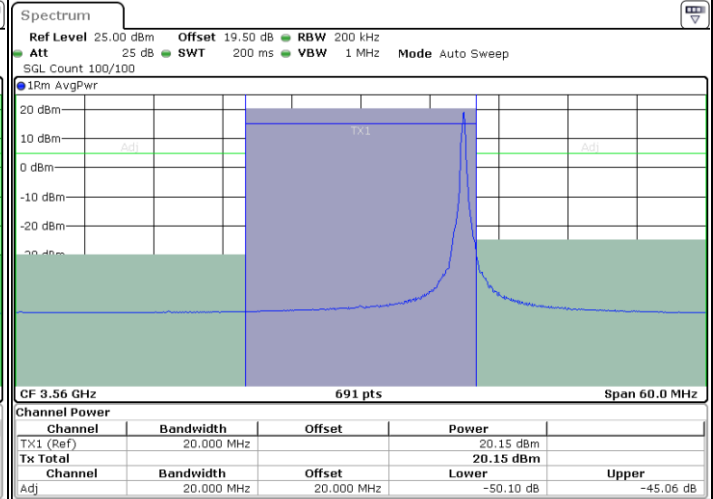
QPSK

Lowest Channel / 1RB0



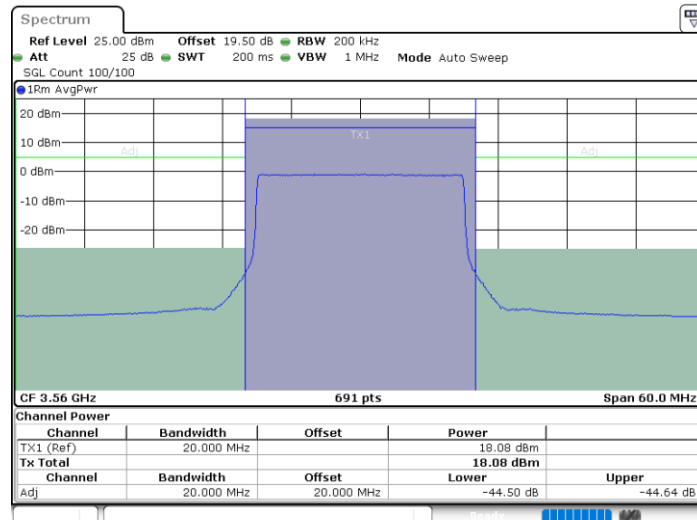
Date: 17.JUL.2025 23:34:23

Lowest Channel / 1RBmax



Date: 17.JUL.2025 23:30:38

Lowest Channel / FullRB



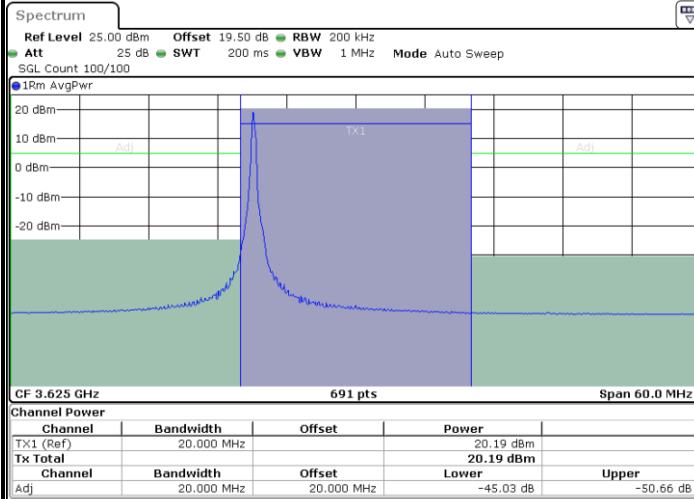
Date: 17.JUL.2025 23:28:23



LTE Band 48 / 20MHz

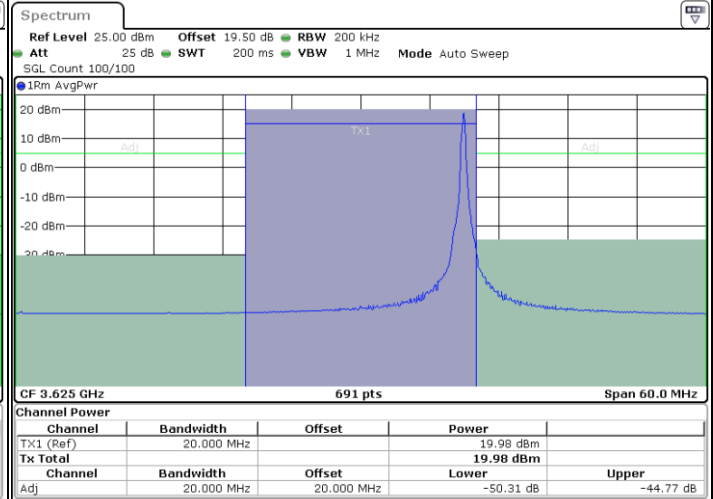
QPSK

Middle Channel / 1RB0



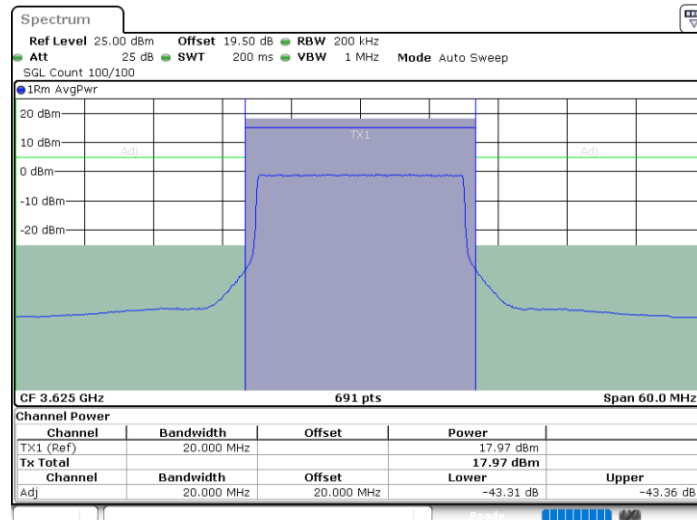
Date: 17.JUL.2025 23:35:07

Middle Channel / 1RBmax

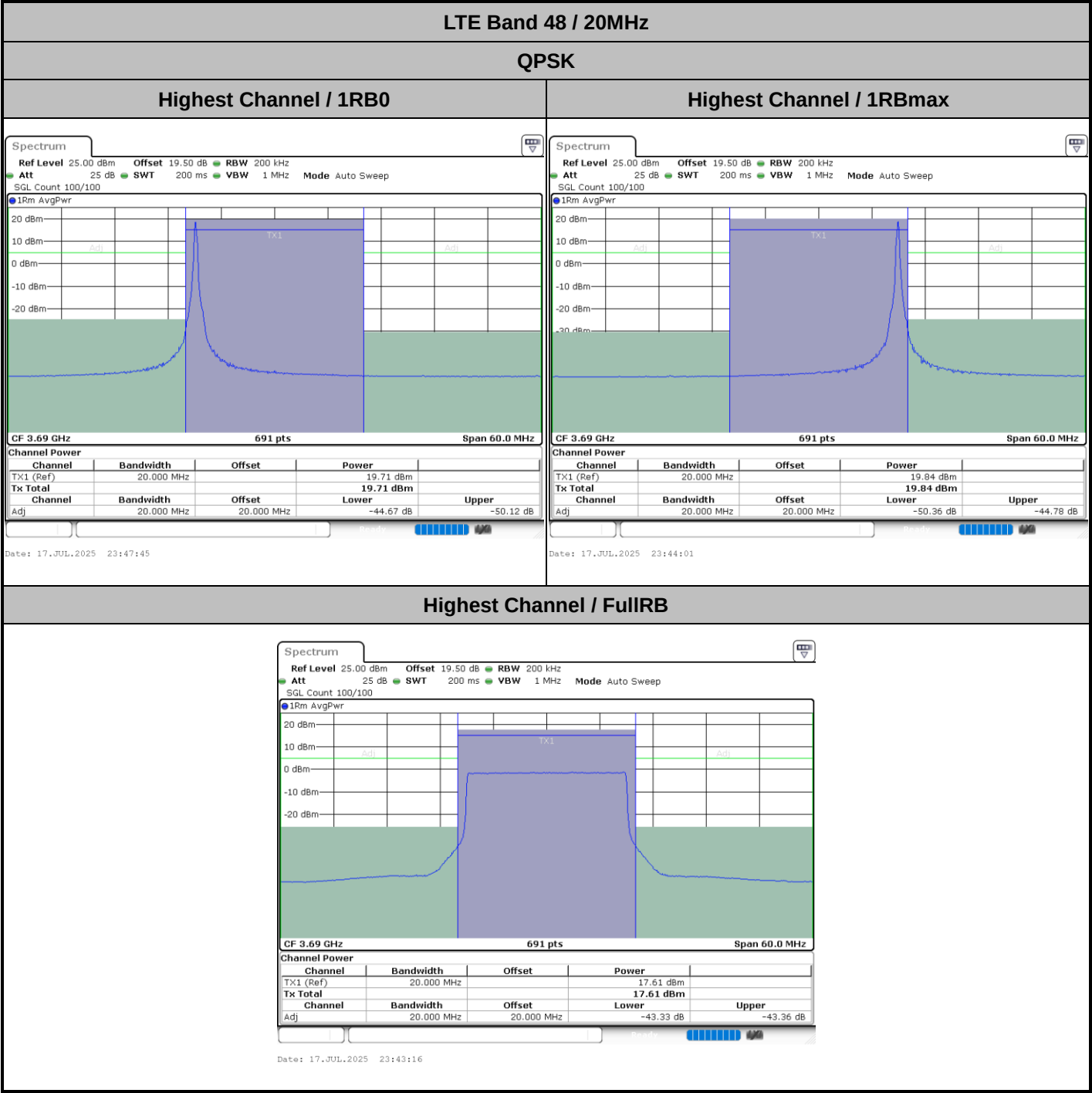


Date: 17.JUL.2025 23:38:49

Middle Channel / FullIRB



Date: 17.JUL.2025 23:39:33

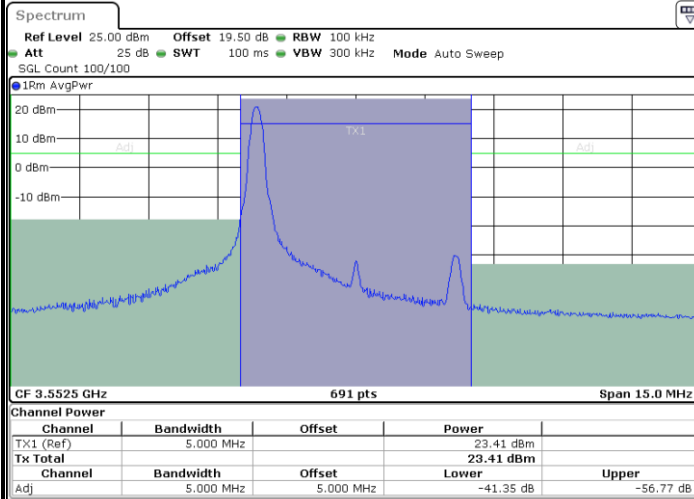




LTE Band 48 / 5MHz

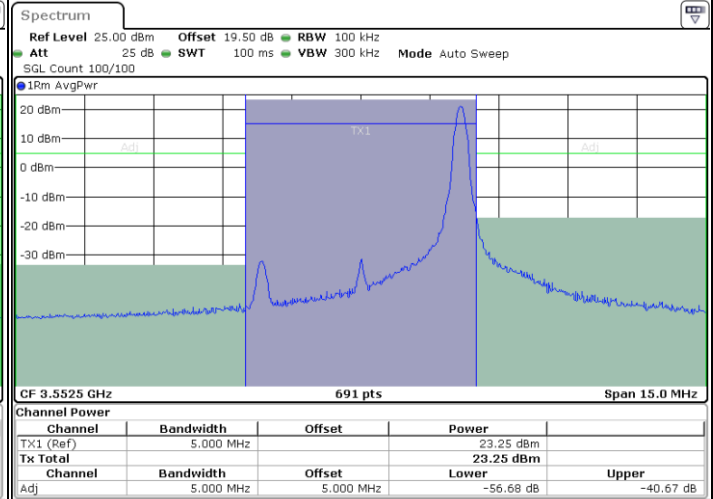
16QAM

Lowest Channel / 1RB0



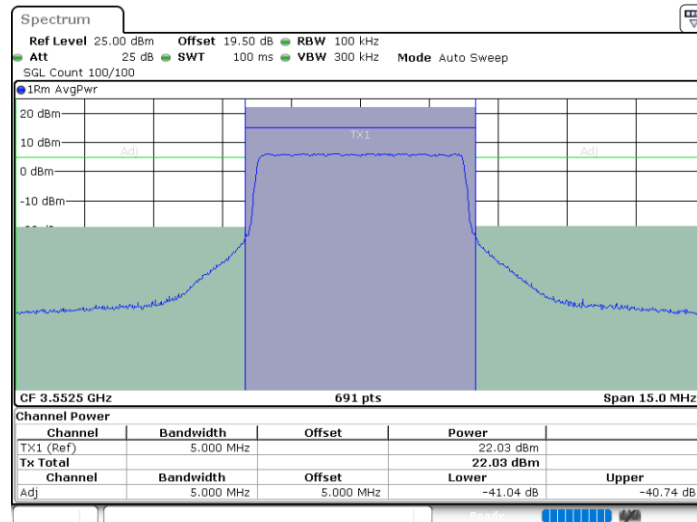
Date: 17.JUL.2025 22:01:20

Lowest Channel / 1RBmax



Date: 17.JUL.2025 22:03:33

Lowest Channel / FullRB



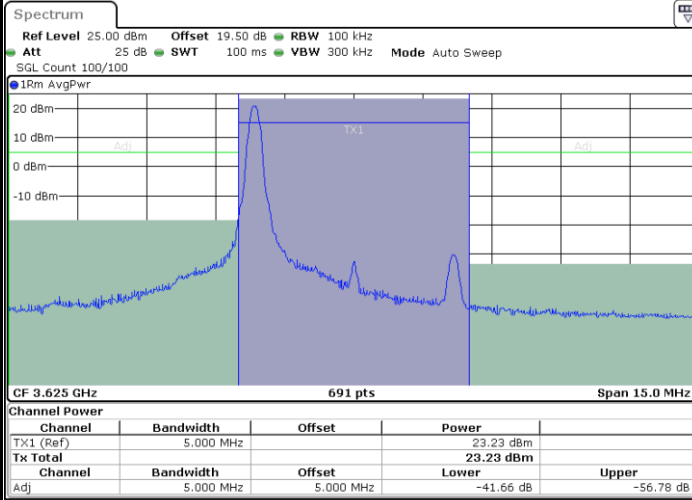
Date: 17.JUL.2025 21:59:07



LTE Band 48 / 5MHz

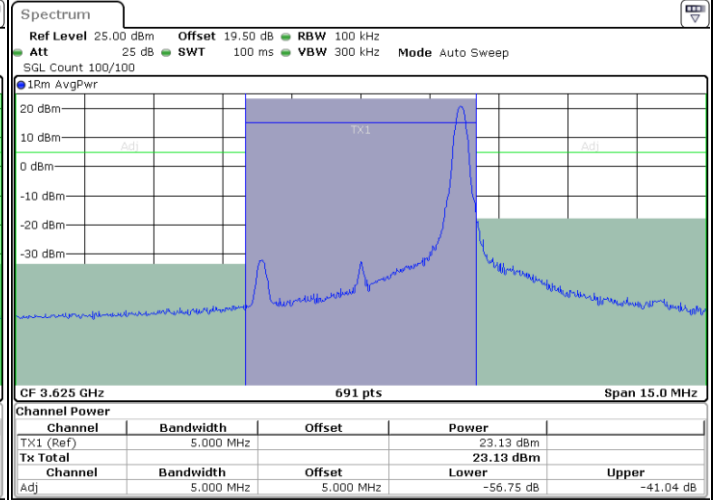
16QAM

Middle Channel / 1RB0



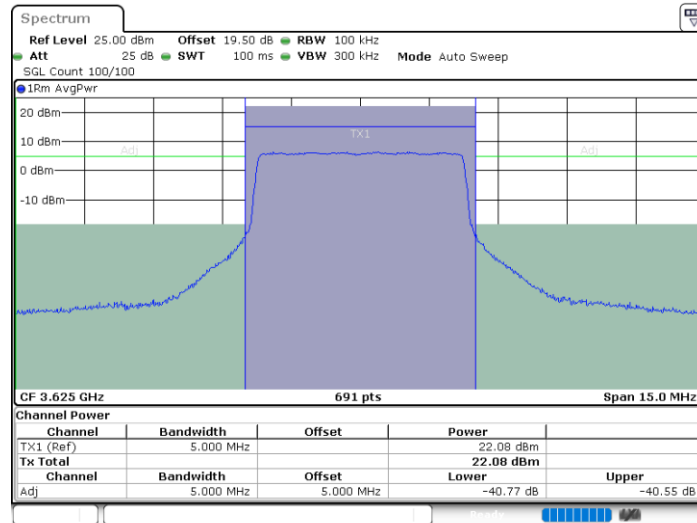
Date: 17.JUL.2025 22:07:55

Middle Channel / 1RBmax

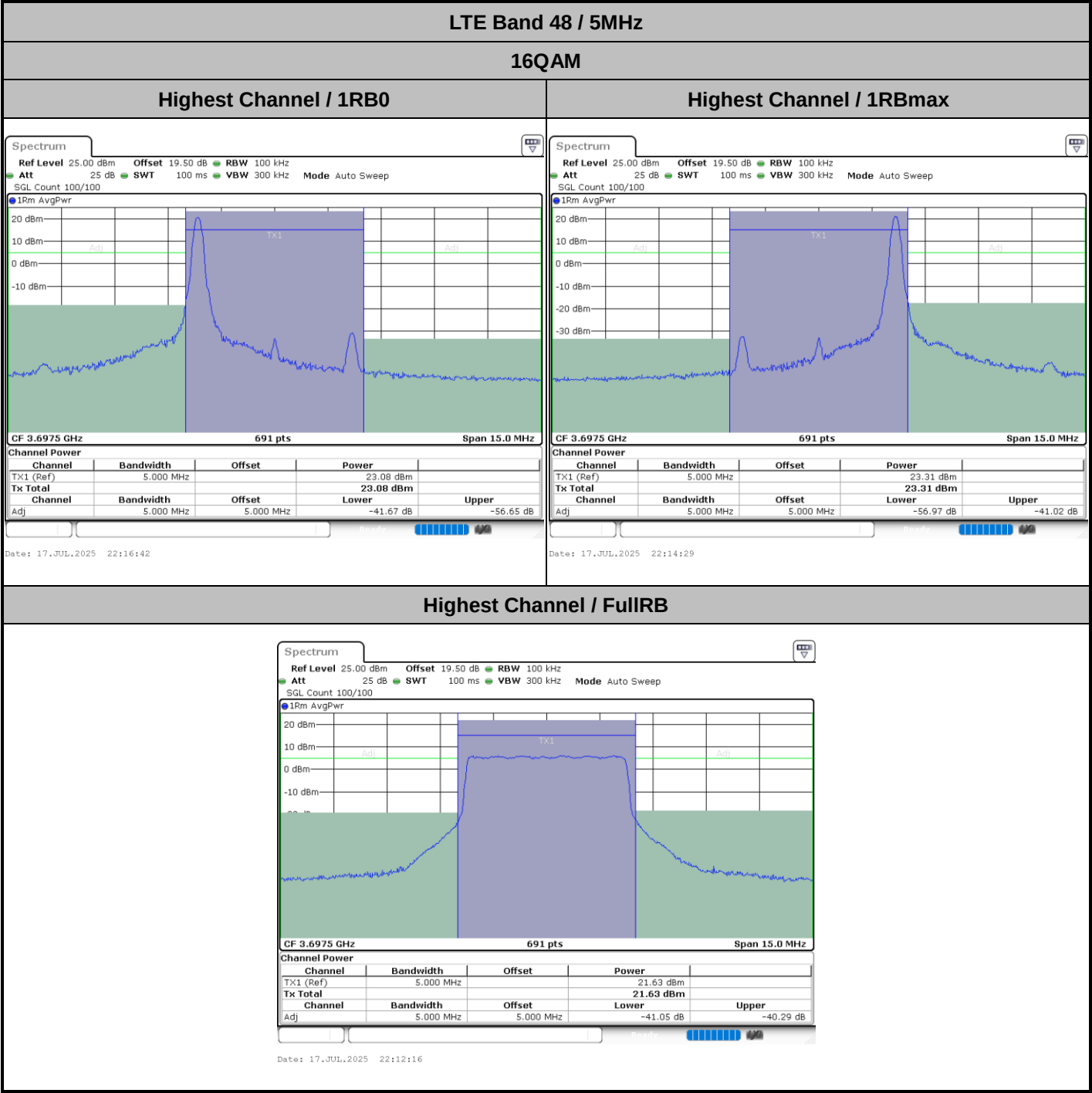


Date: 17.JUL.2025 22:05:44

Middle Channel / FullIRB



Date: 17.JUL.2025 22:10:05

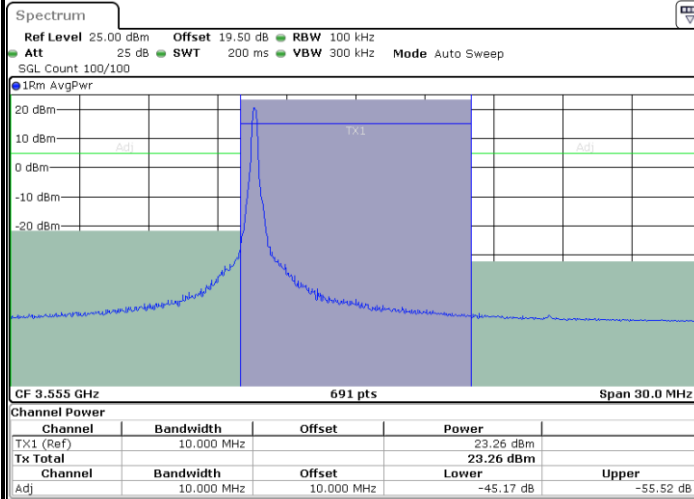




LTE Band 48 / 10MHz

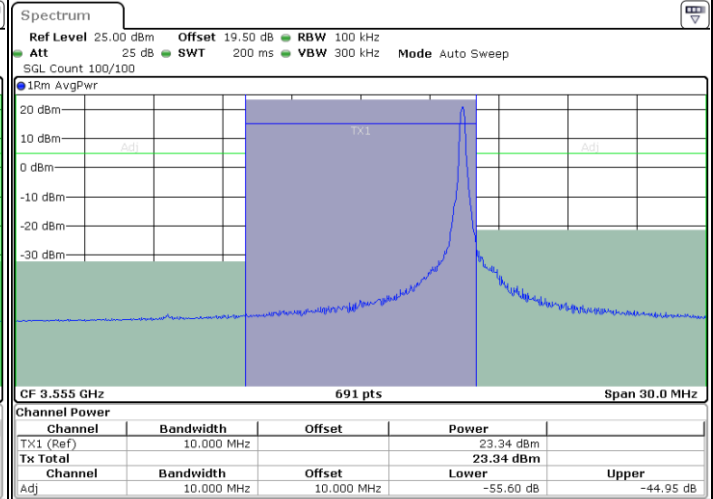
16QAM

Lowest Channel / 1RB0



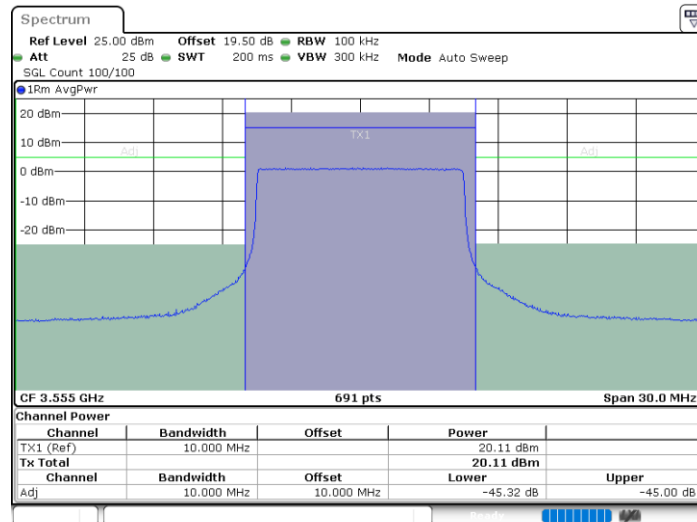
Date: 17.JUL.2025 22:36:48

Lowest Channel / 1RBmax



Date: 17.JUL.2025 22:34:31

Lowest Channel / FullRB



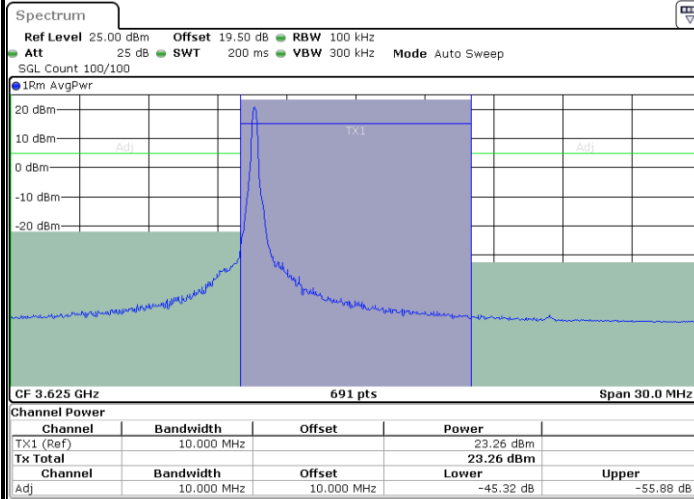
Date: 17.JUL.2025 22:32:14



LTE Band 48 / 10MHz

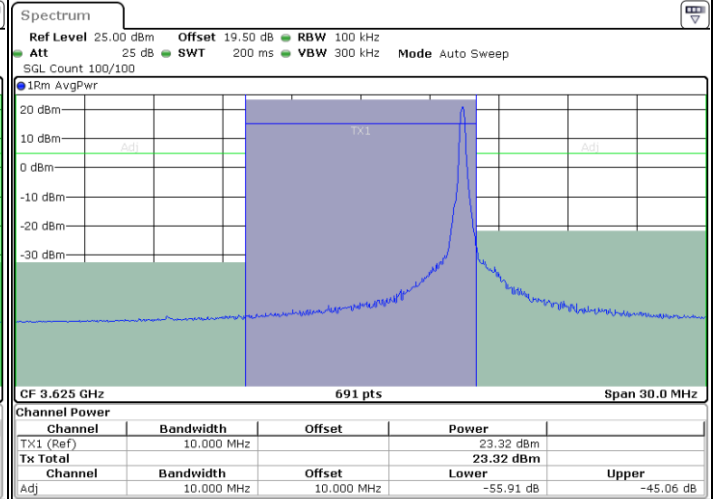
16QAM

Middle Channel / 1RB0



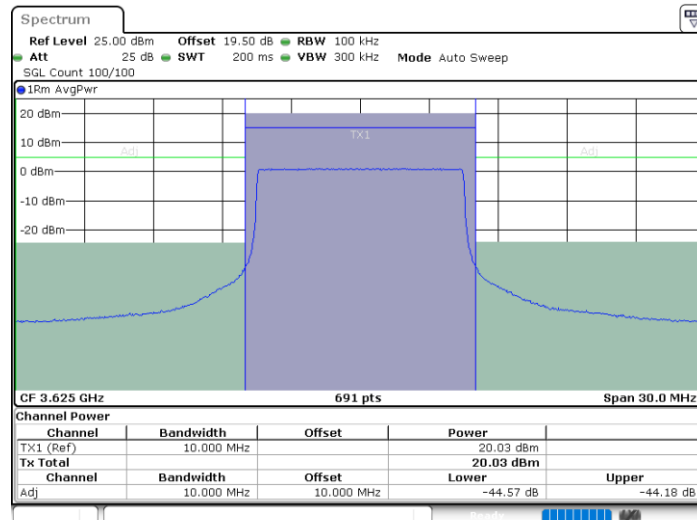
Date: 17.JUL.2025 22:39:03

Middle Channel / 1RBmax

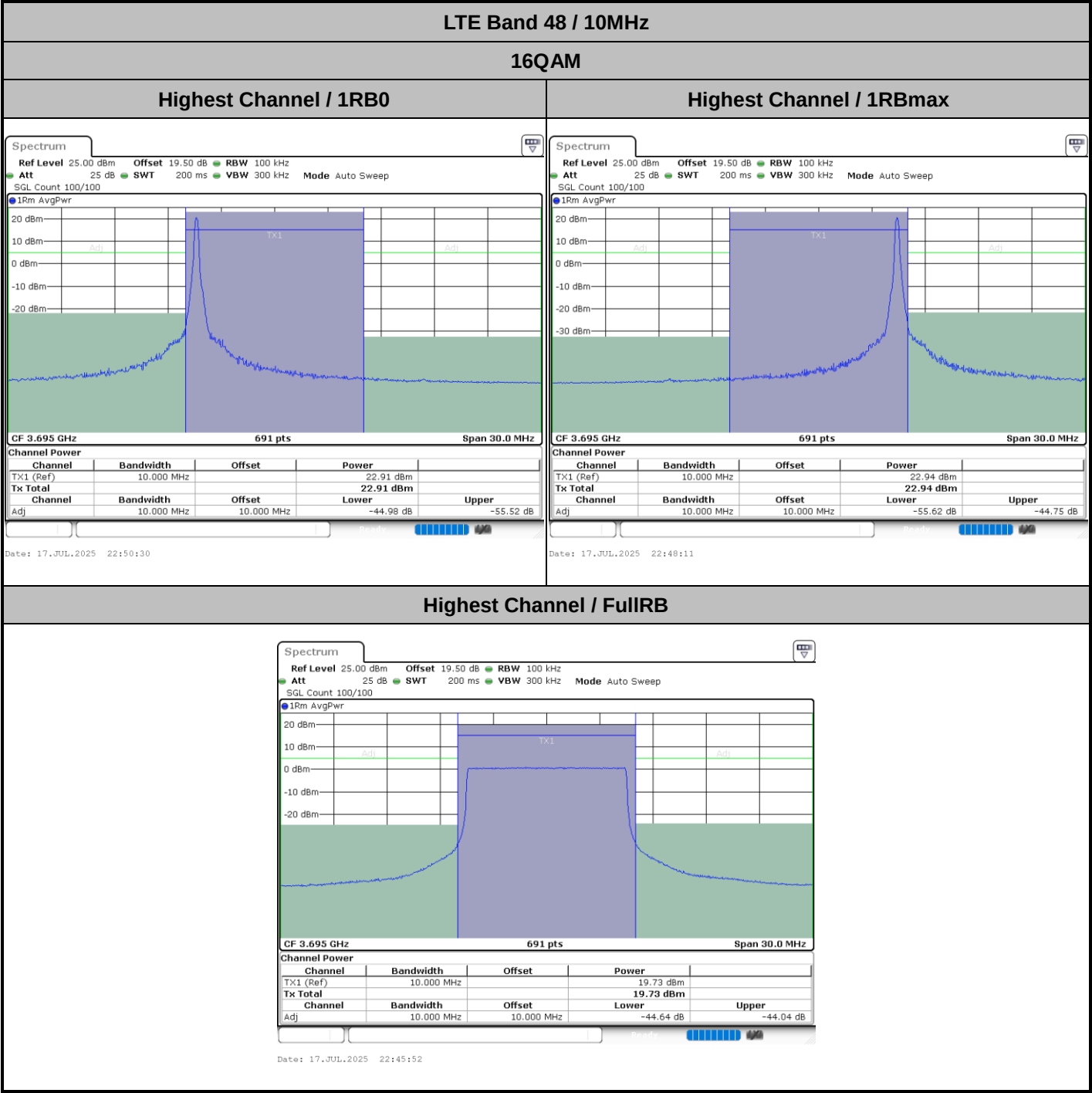


Date: 17.JUL.2025 22:41:19

Middle Channel / FullIRB



Date: 17.JUL.2025 22:43:34

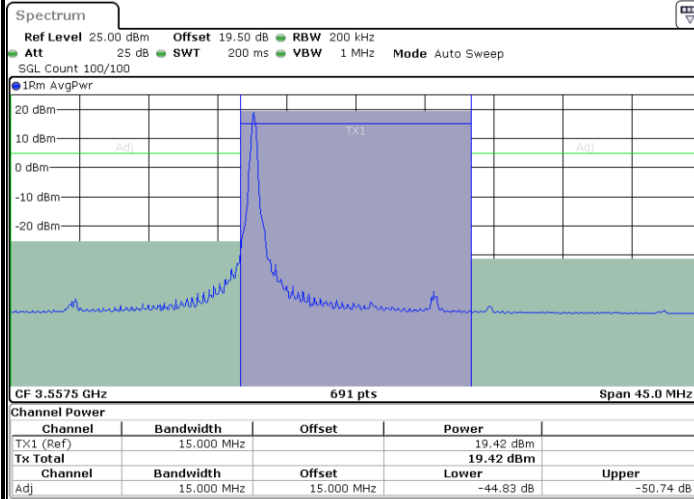




LTE Band 48 / 15MHz

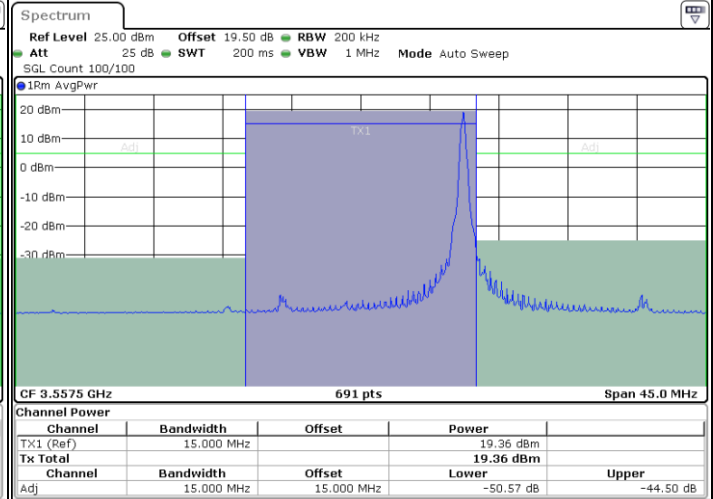
16QAM

Lowest Channel / 1RB0



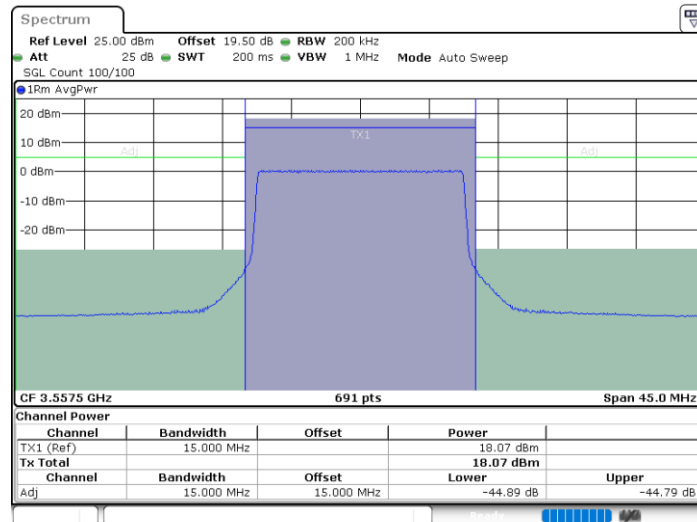
Date: 17.JUL.2025 23:11:35

Lowest Channel / 1RBmax



Date: 17.JUL.2025 23:09:18

Lowest Channel / FullRB



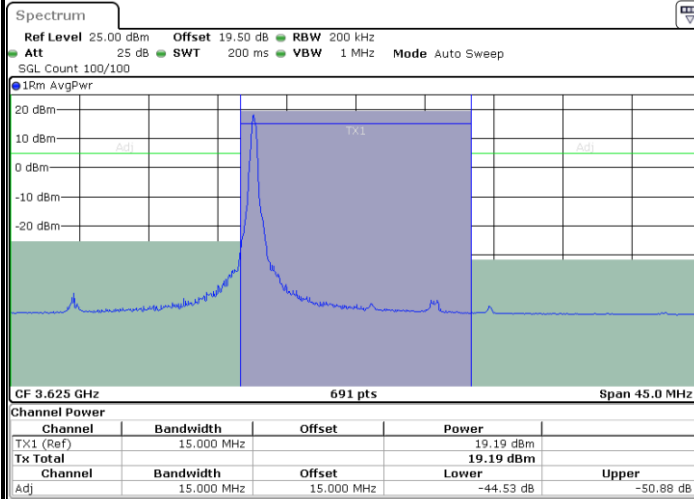
Date: 17.JUL.2025 23:07:00



LTE Band 48 / 15MHz

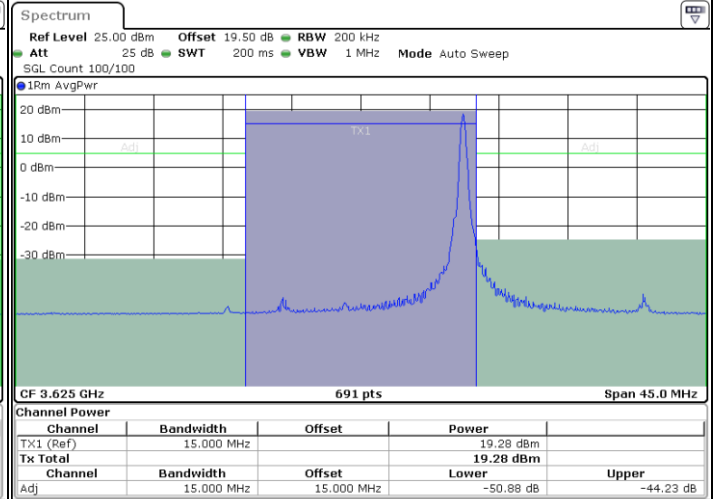
16QAM

Middle Channel / 1RB0



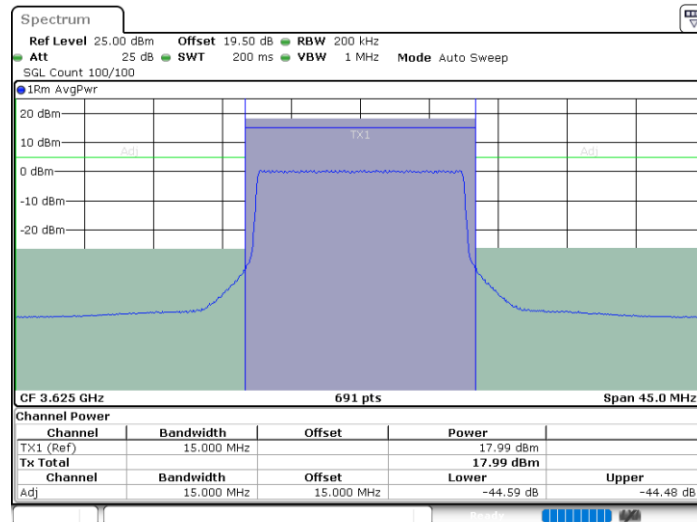
Date: 17.JUL.2025 23:13:51

Middle Channel / 1RBmax

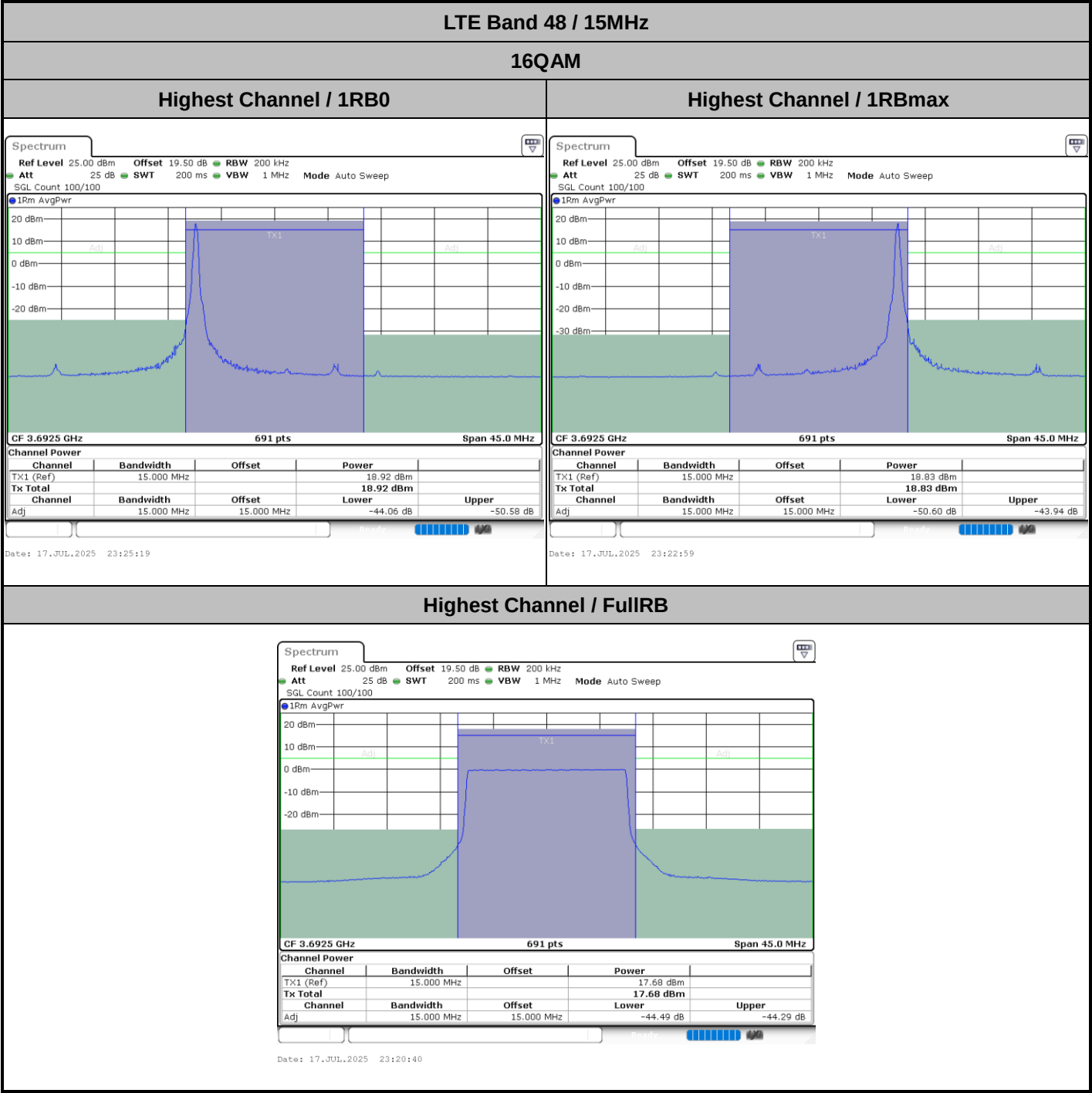


Date: 17.JUL.2025 23:16:07

Middle Channel / FullIRB



Date: 17.JUL.2025 23:18:22

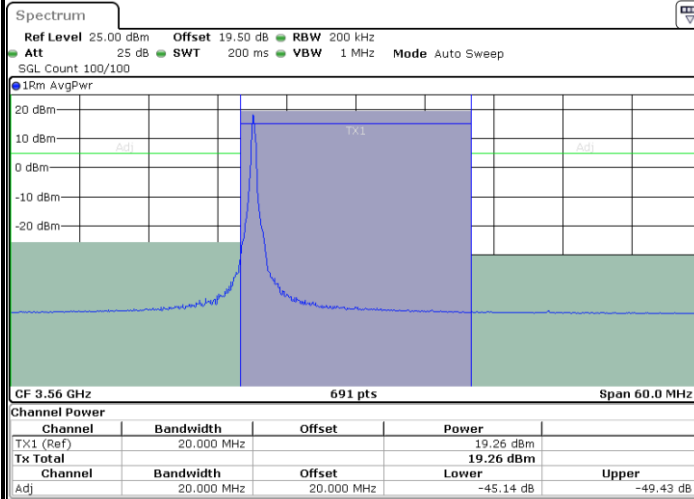




LTE Band 48 / 20MHz

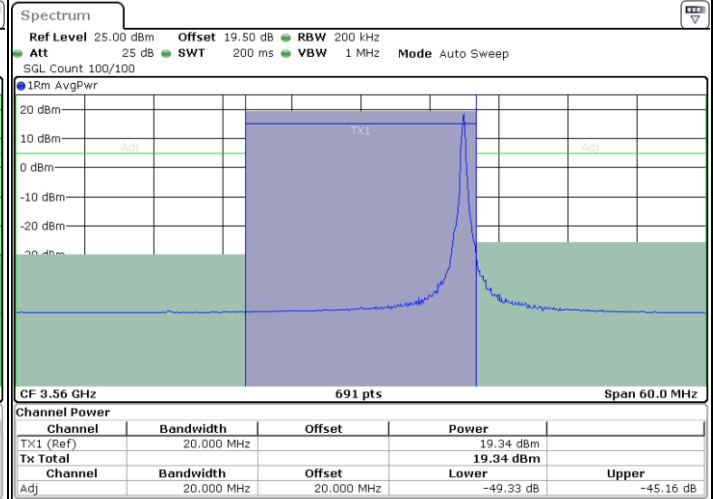
16QAM

Lowest Channel / 1RB0



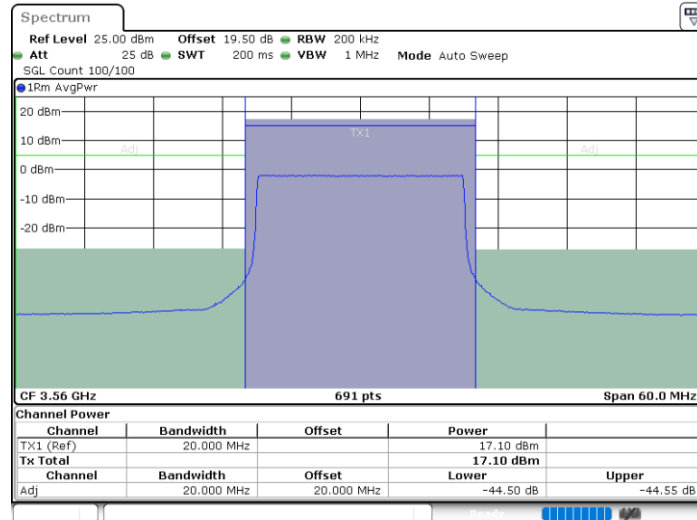
Date: 17.JUL.2025 23:33:38

Lowest Channel / 1RBmax



Date: 17.JUL.2025 23:31:23

Lowest Channel / FullRB



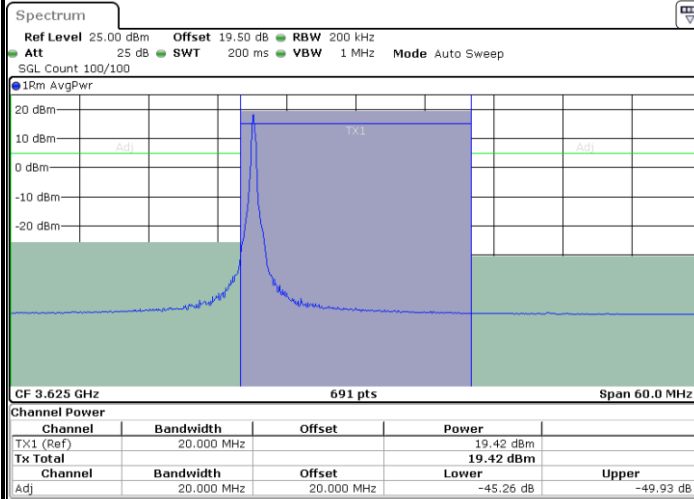
Date: 17.JUL.2025 23:29:08



LTE Band 48 / 20MHz

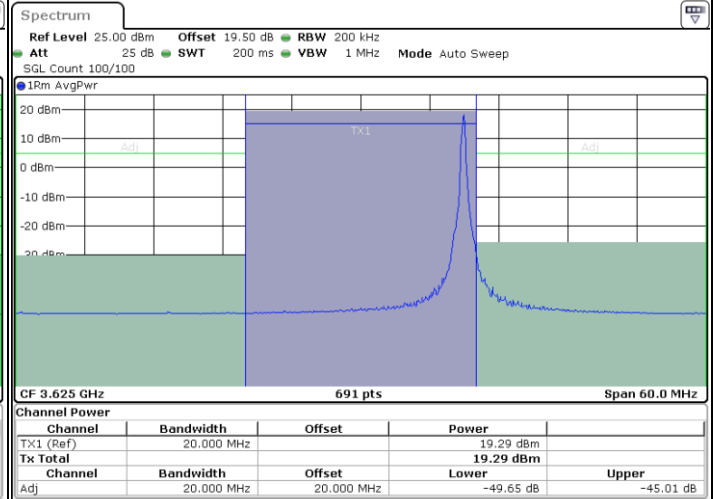
16QAM

Middle Channel / 1RB0



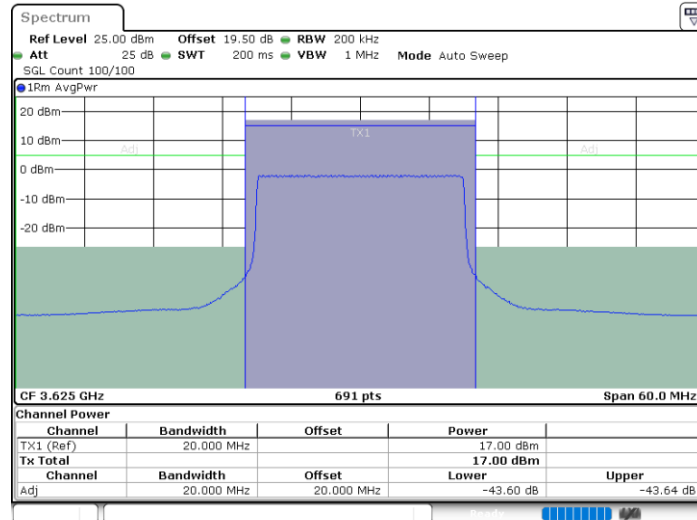
Date: 17.JUL.2025 23:35:52

Middle Channel / 1RBmax

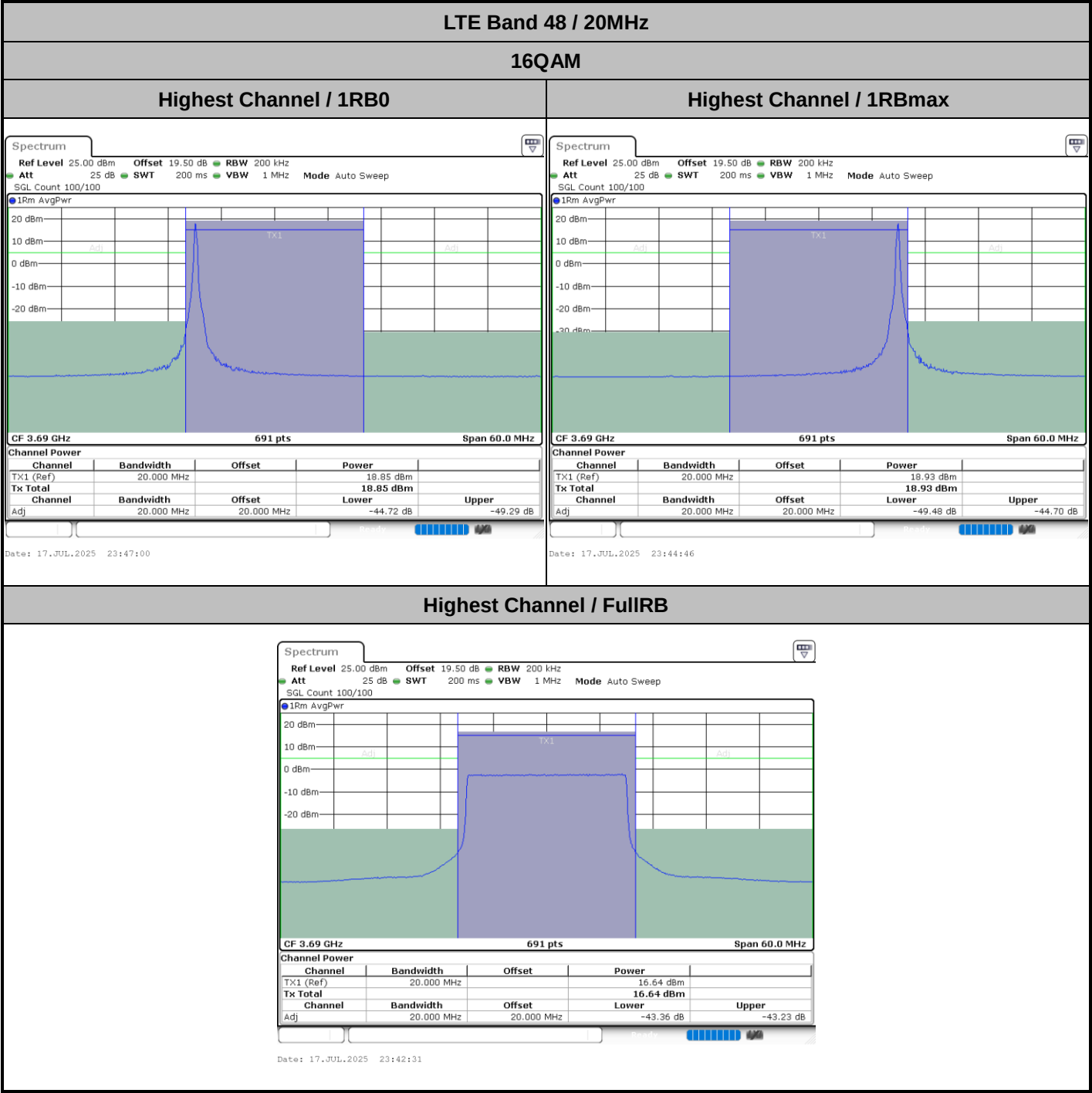


Date: 17.JUL.2025 23:38:05

Middle Channel / FullIRB



Date: 17.JUL.2025 23:40:18

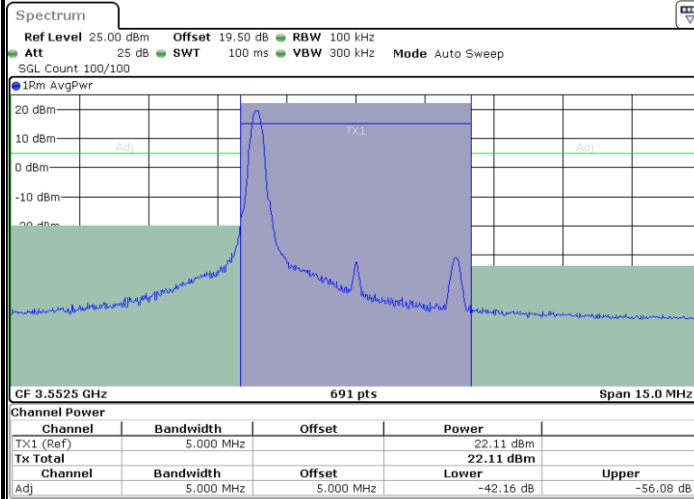




LTE Band 48 / 5MHz

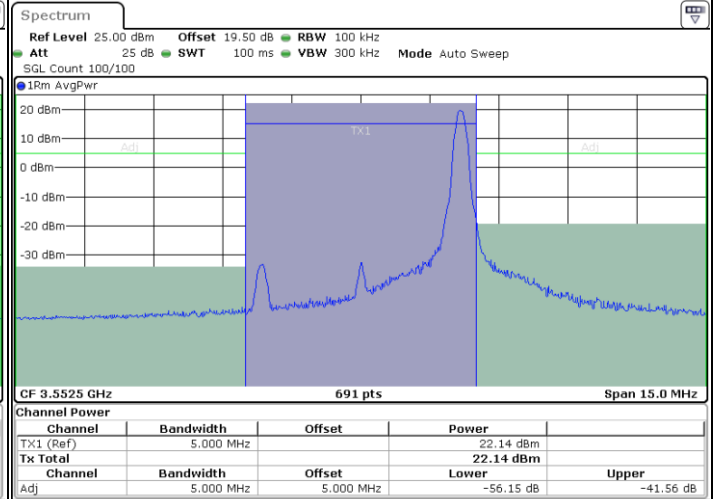
64QAM

Lowest Channel / 1RB0



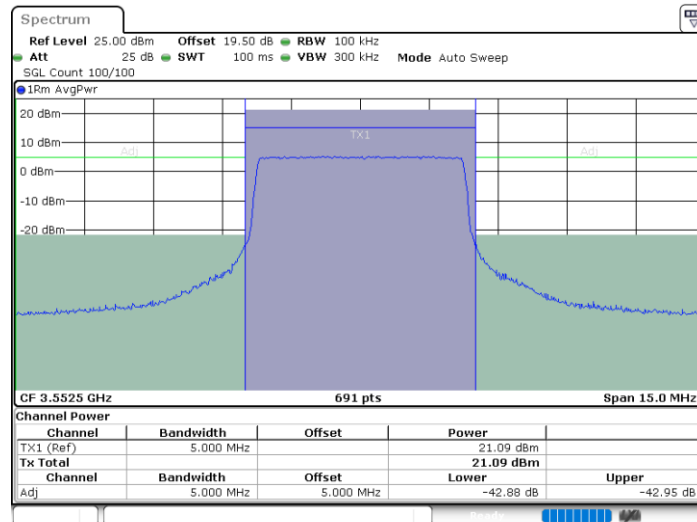
Date: 17.JUL.2025 22:00:36

Lowest Channel / 1RBmax



Date: 17.JUL.2025 22:04:17

Lowest Channel / FullRB



Date: 17.JUL.2025 21:59:52