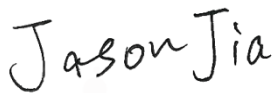


FCC RF Test Report

APPLICANT : Fibocom Wireless Inc.
EQUIPMENT : 5G Module
BRAND NAME : Fibocom
MODEL NAME : FG370-NA
FCC ID : ZMOFG370NA
STANDARD : 47 CFR Part 2, 96
CLASSIFICATION : Citizens Band End User Devices (CBE)
EQUIPMENT TYPE : End User Equipment
TEST DATE(S) : Jan. 18, 2024 ~ Mar. 27, 2024

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.



Approved by: Jason Jia



Sporton International Inc. (ShenZhen)

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

People's Republic of China



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History of this test report

Report No.	Version	Description	Issued Date
FG3D1101G	01	Initial issue of report	May 13, 2024

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 12.38 dB at 10876.35 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

Fibocom Wireless Inc.

1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan,,Shenzhen, China

1.2 Manufacturer

Fibocom Wireless Inc.

1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan,,Shenzhen, China

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	5G Module
Brand Name	Fibocom
Model Name	FG370-NA
FCC ID	ZMOFG370NA
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	<Ant. 3> LTE Band 42: 24.88 dBm LTE Band 43: 24.60 dBm LTE Band 48: 24.98 dBm LTE CA_48B : 15.23 dBm LTE CA_48C : 15.32 dBm <Ant. 5> LTE Band 42: 24.74 dBm LTE Band 43: 24.78 dBm LTE Band 48: 24.96 dBm
Antenna Gain	<Ant. 3/5> LTE Band 42: -4.5 dBi LTE Band 43: -4.5 dBi LTE Band 48: -4.5 dBi
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM
IMEI Code	Conducted: 864952060076764 Radiation: 864952060020580
HW Version	V1.0
SW Version	81140.7000.00.11.01.14
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 max antenna gain, so only the maximum EIRP of Antenna 3 for LTE Band42/48/48B/48C, and Antenna 5 for LTE Band 43 are shown in the 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	0.3041	4M49G7D	0.2523	4M49W7D
10	3555.0~3595.0	0.3034	8M99G7D	0.2500	9M05W7D
15	3557.5~3592.5	0.3034	13M5G7D	0.2495	13M4W7D
20	3560.0~3590.0	0.3076	17M7G7D	0.2529	17M8W7D
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	0.2871	4M49G7D	0.2360	4M49W7D
10	3605.0~3695.0	0.2864	8M99G7D	0.2371	9M05W7D
15	3607.5~3692.5	0.2858	13M5G7D	0.2393	13M4W7D
20	3610.0~3690.0	0.3006	17M7G7D	0.2438	17M8W7D
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	0.2818	4M49G7D	0.2399	4M49W7D
10	3555~3695	0.2825	8M99G7D	0.2393	9M05W7D
15	3557.5~3692.5	0.2858	13M5G7D	0.2388	13M4W7D
20	3560~3690	0.3148	17M7G7D	0.2410	17M8W7D

LTE Band 48B_CA		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	Frequency (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
10MHz+10MHz (3555 ~ 3695 MHz)		0.0333	18M9G7D	0.0286	18M8W7D

LTE Band 48 CA	QPSK		16QAM/64QAM/256QAM	
BW (MHz) Frequency (MHz)	Maximum Conducted power (W)	Emission Designator (99%OBW)	Maximum Conducted power (W)	Emission Designator (99%OBW)
5MHz+20MHz (3553.5 ~ 3690 MHz)	0.0328	23M2G7D	0.0280	23M4W7D
10MHz+20MHz (3555.5 ~ 3690 MHz)	0.0327	28M0G7D	0.0277	28M1W7D
15MHz+20MHz (3557.8 ~ 3690 MHz)	0.0327	32M7G7D	0.0279	32M8W7D
20MHz+5MHz (3560 ~ 3696.7 MHz)	0.0319	23M2G7D	0.0279	23M2W7D
20MHz+10MHz (3560 ~ 3694.5 MHz)	0.0319	28M3G7D	0.0278	27M8W7D
20MHz+15MHz (3560 ~ 3692.2 MHz)	0.0325	32M9G7D	0.0279	32M7W7D
20MHz+20MHz (3560 ~ 3690 MHz)	0.0340	37M8G7D	0.0292	37M6W7D

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 under Part 96 rule. 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	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH01-SZ	CN1256	421272

1.6 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24

1.7 Applied Standards

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

- ♦ ANSI C63.26-2015
- ♦ 47 CFR Part 2, 96
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 940660 D01 Part 96 CBRS v03
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

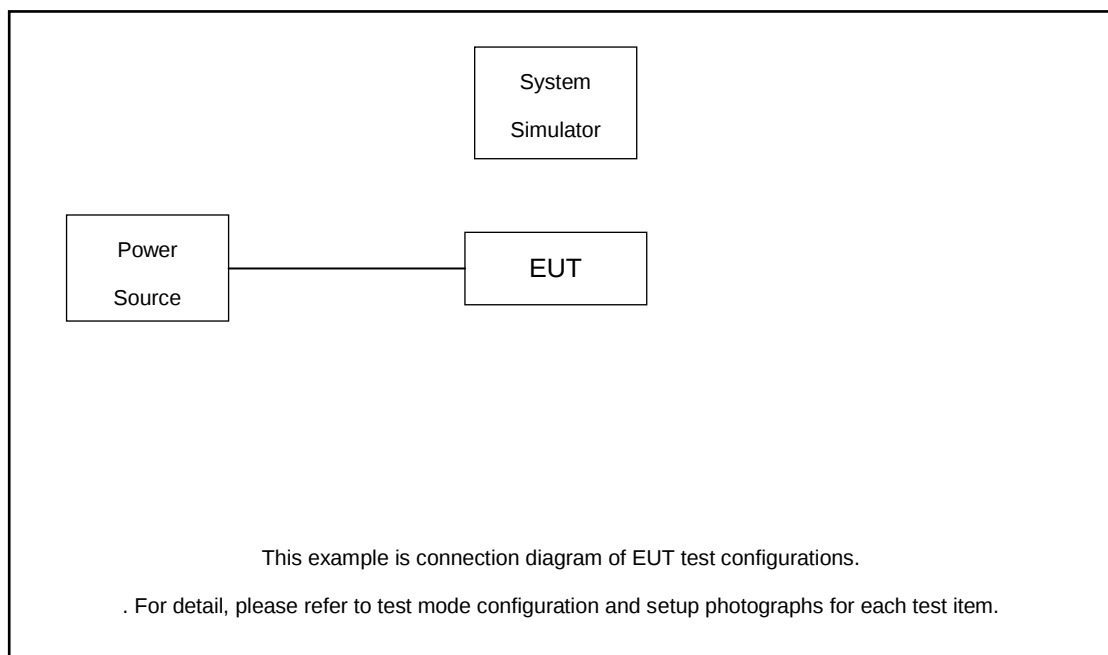
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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

Test Items	Band	Bandwidth (MHz)						Modulation				RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16 QAM	64 QAM	256 QAM	1	Half	Full	L	M	H
Max. Output Power	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		v	
Conducted Band Edge	48	-	-	v	v	v	v	v	v	v		v		v	v	v	v
Conducted Spurious Emission	48	-	-	v	v	v	v	v				v		v	v	v	v
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. All the radiated test cases were performed with Adapter																

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

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
3.	Fixture	INTEL	NGFF Card Carrier	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

LTE Band 48B_CA Channel and Frequency List					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
10 + 10	PCC	Channel	55290	55941	56591
		Frequency	3555	3620.1	3685.1
	SCC	Channel	55389	56039	56690
		Frequency	3564.9	3629.9	3695

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

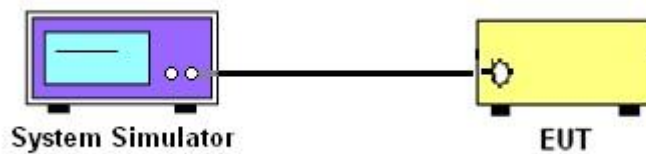
3 Conducted Test Items

3.1 Measuring Instruments

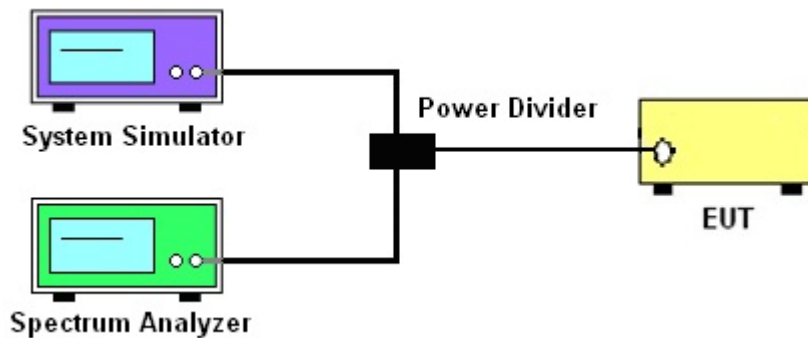
See list of measuring instruments of this test report.

3.2 Test Setup

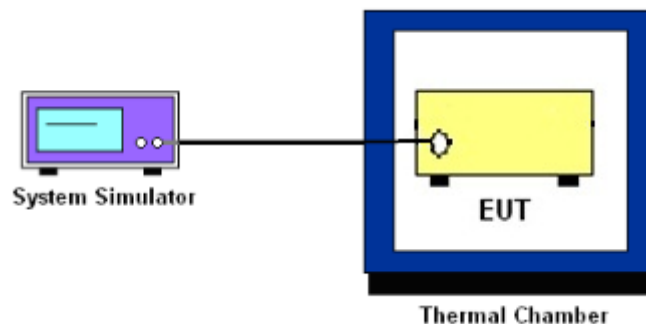
3.2.1 Conducted Output Power / ACLR



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.

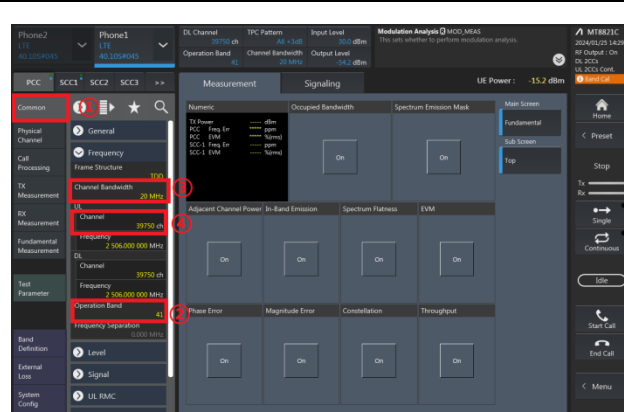
3.3.2 Test Procedures

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.

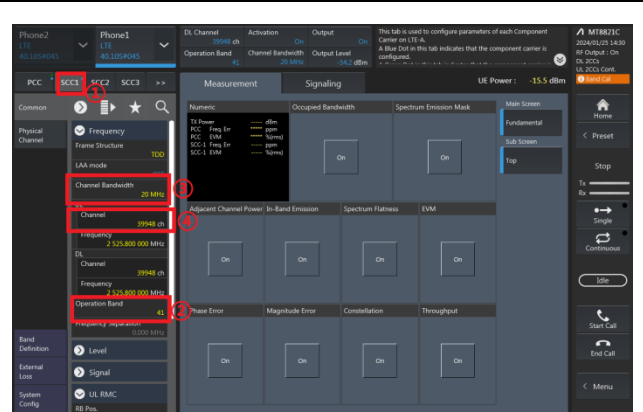
3.3.3 Test Procedures for LTE ULCA

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.

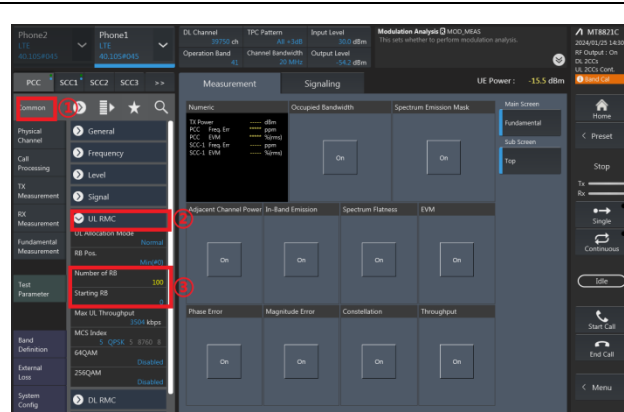
PCC config_(Channel Bandwidth / Channel / Band)



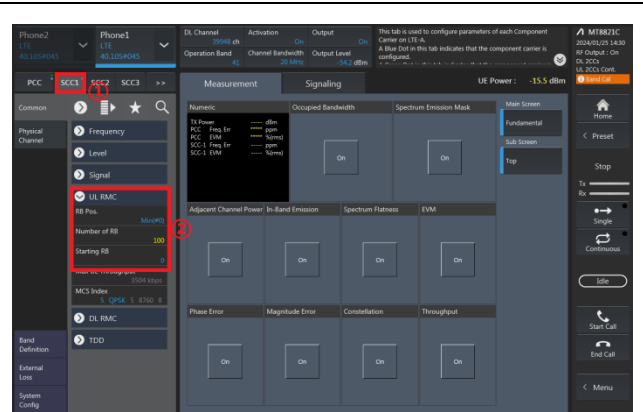
SCC config_(Channel Bandwidth / Channel / Band)



PCC config_(Number of RB / Starting RB)

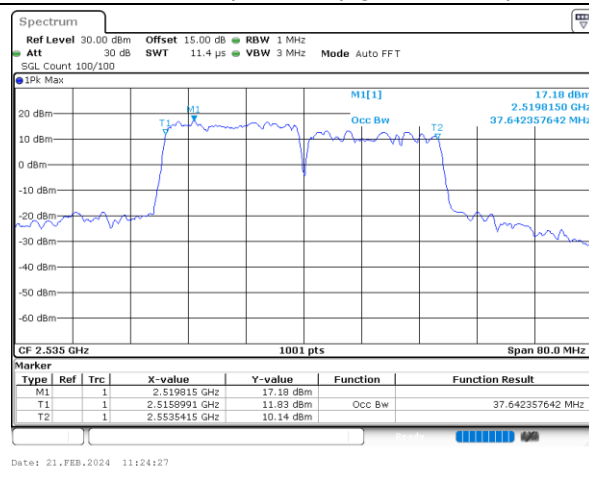


SCC config_(Number of RB / Starting RB)

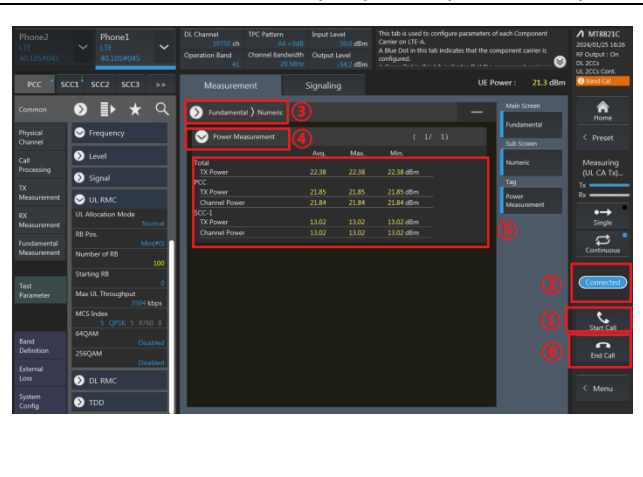


4. Select lowest, middle, and highest channels for each ULCA band and different modulation.
5. Check the ULCA spectrum and record the total power from the system simulator.

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)

$$EIRP = P_T + G_T - L_C, ERP = EIRP - 2.15, \text{ where}$$

$$P_T = \text{transmitter output power in dBm}$$

$$G_T = \text{gain of the transmitting antenna in dBi}$$

$$L_C = \text{signal attenuation in the connecting cable between the transmitter and antenna in dB}$$

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.

9. The EUT was connected to spectrum analyzer and system simulator via a power divider.
10. The band edges of low and high channels for the highest RF powers were measured.
11. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
12. Beyond the 1 MHz band from the band edge, RBW=1MHz was used
13. Offset has included the duty factor for LTE Band 48. Duty factor $=10 \log (1/x)$, where x is the measured duty cycle.
14. Set spectrum analyzer with RMS detector.
15. 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.

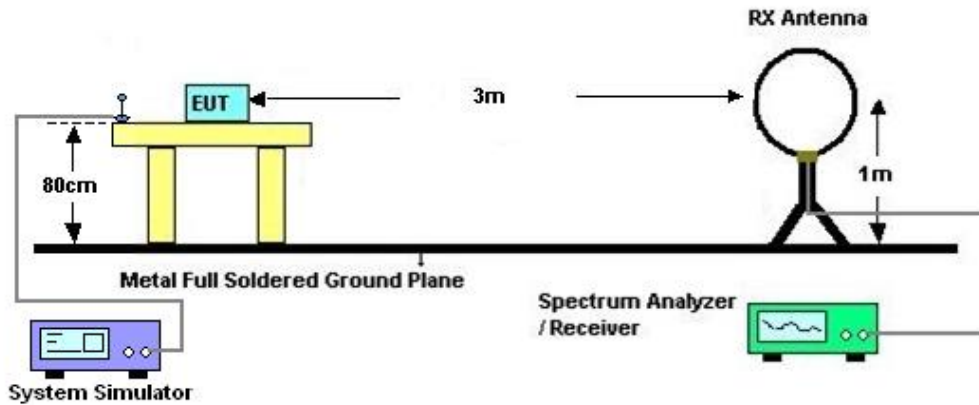
4 Radiated Test Items

4.1 Measuring Instruments

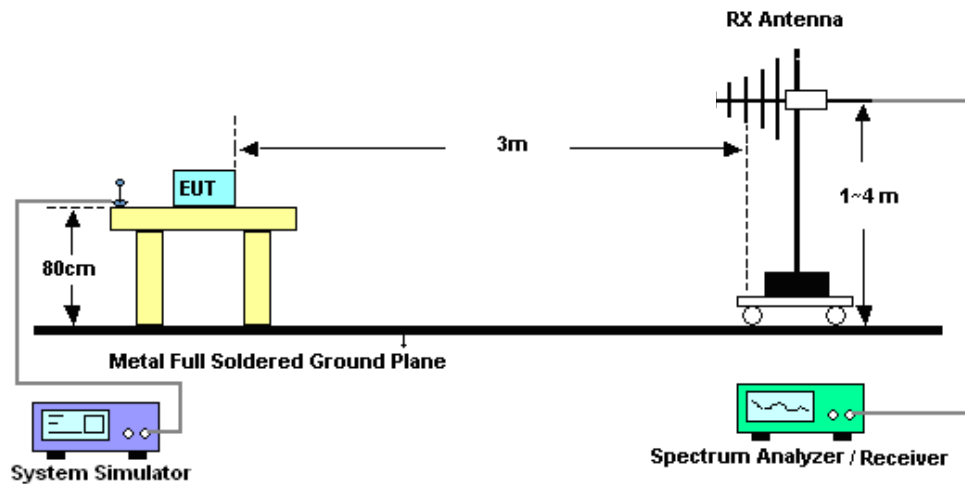
See list of measuring instruments of this test report.

4.2 Test Setup

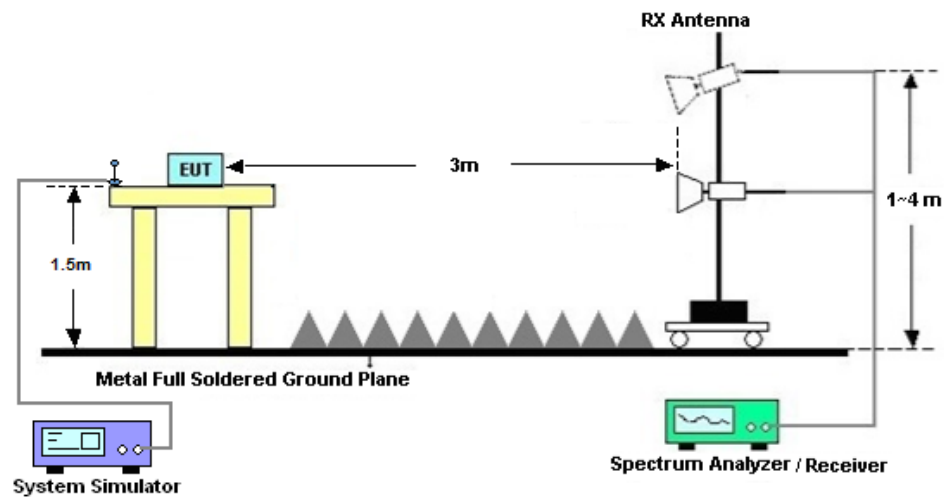
4.2.1 For radiated test below 30MHz



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.
$$\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$$
$$\text{ERP (dBm)} = \text{EIRP} - 2.15$$
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
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 06, 2023	Jan. 18, 2024~ Mar. 27, 2024	Apr. 05, 2024	Conducted (TH01-SZ)
DC Power Supply	TTI	PL330P	290070	Max 32V , 3A	Oct. 16, 2023	Jan. 18, 2024~ Mar. 27, 2024	Oct. 15, 2024	Conducted (TH01-SZ)
Power Divider	TOJOIN	PS-2SM-04 265	60.06.020.007 7	0.4GHz~26.5GHz	Dec. 25, 2023	Jan. 18, 2024~ Mar. 27, 2024	Dec. 24, 2024	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Jul. 05, 2023	Jan. 18, 2024~ Mar. 27, 2024	Jul. 04, 2024	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 27, 2023	Jan. 30, 2024	Dec. 26, 2024	Radiation (03CH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2023	Jan. 30, 2024	Jul. 06, 2024	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Jan. 30, 2024	Jul. 27, 2024	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Oct. 24, 2023	Jan. 30, 2024	Oct. 23, 2025	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 08, 2023	Jan. 30, 2024	Jul. 07, 2024	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 08, 2023	Jan. 30, 2024	Apr. 07, 2024	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 04, 2023	Jan. 30, 2024	Apr. 03, 2024	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P-R	1943528	1GHz~18GHz	Oct. 18, 2023	Jan. 30, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 18, 2023	Jan. 30, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35 -HG	1871923	18GHz~40GHz	Jul. 07, 2023	Jan. 30, 2024	Jul. 06, 2024	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	61601000198 5	N/A	Oct. 18, 2023	Jan. 30, 2024	Oct. 17, 2024	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jan. 30, 2024	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jan. 30, 2024	NCR	Radiation (03CH01-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
Peak to Average Ratio	± 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% ($U = 2Uc(y)$)	2.48dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.53dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.02dB
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----- THE END -----

Appendix A. Test Results of Conducted Test

Test Engineer :	Hank Lin	Temperature :	24~26°C
		Relative Humidity :	50~53%

Conducted Output Power(Average power) and EIRP

LTE Band 42_Ant3:

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	24.78	24.88	24.77	0.1067	0.1091	0.1064
20	QPSK	1	49	24.72	24.76	24.66	0.1052	0.1062	0.1038
20	QPSK	1	99	24.68	24.67	24.58	0.1042	0.1040	0.1019
20	QPSK	50	0	23.86	23.87	23.86	0.0863	0.0865	0.0863
20	QPSK	50	24	23.83	23.84	23.79	0.0857	0.0859	0.0849
20	QPSK	50	50	23.85	23.84	23.80	0.0861	0.0859	0.0851
20	QPSK	100	0	23.85	23.86	23.81	0.0861	0.0863	0.0853
20	16QAM	1	0	24.03	23.94	23.84	0.0897	0.0879	0.0859
20	64QAM	1	0	22.65	22.64	22.60	0.0653	0.0652	0.0646
20	256QAM	1	0	19.91	19.95	19.92	0.0348	0.0351	0.0348
Channel				43165	43340	43515	EIRP(W)		
Frequency (MHz)				3557.5	3575	3592.5	L	M	H
15	QPSK	1	0	24.81	24.82	24.81	0.1074	0.1076	0.1074
15	16QAM	1	0	23.97	23.90	23.87	0.0885	0.0871	0.0865
Channel				43140	43340	43540	EIRP(W)		
Frequency (MHz)				3555	3575	3595	L	M	H
10	QPSK	1	0	24.79	24.82	24.76	0.1069	0.1076	0.1062
10	16QAM	1	0	23.93	23.98	23.94	0.0877	0.0887	0.0879
Channel				43115	43340	43565	EIRP(W)		
Frequency (MHz)				3552.5	3575	3597.5	L	M	H
5	QPSK	1	0	24.78	24.79	24.83	0.1067	0.1069	0.1079
5	16QAM	1	0	24.02	23.94	23.96	0.0895	0.0879	0.0883

LTE Band 43_Ant5:

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	24.64	24.64	24.65	0.1033	0.1033	0.1035
20	QPSK	1	49	24.78	24.65	24.70	0.1067	0.1035	0.1047
20	QPSK	1	99	24.53	24.52	24.59	0.1007	0.1005	0.1021
20	QPSK	50	0	23.71	23.69	23.71	0.0834	0.0830	0.0834
20	QPSK	50	24	23.81	23.75	23.76	0.0853	0.0841	0.0843
20	QPSK	50	50	23.62	23.65	23.68	0.0817	0.0822	0.0828
20	QPSK	100	0	23.70	23.67	23.69	0.0832	0.0826	0.0830
20	16QAM	1	0	23.87	23.75	23.86	0.0865	0.0841	0.0863
20	64QAM	1	0	22.58	22.42	22.51	0.0643	0.0619	0.0632
20	256QAM	1	0	19.93	19.98	19.86	0.0349	0.0353	0.0344
Channel				43665	44090	44515	EIRP(W)		
Frequency (MHz)				3607.5	3650	3692.5	L	M	H
15	QPSK	1	0	24.49	24.52	24.56	0.0998	0.1005	0.1014
15	16QAM	1	0	23.76	23.69	23.79	0.0843	0.0830	0.0849
Channel				43640	44090	44540	EIRP(W)		
Frequency (MHz)				3605	3650	3695	L	M	H
10	QPSK	1	0	24.57	24.51	24.50	0.1016	0.1002	0.1000
10	16QAM	1	0	23.75	23.66	23.71	0.0841	0.0824	0.0834
Channel				43615	44090	44565	EIRP(W)		
Frequency (MHz)				3602.5	3650	3697.5	L	M	H
5	QPSK	1	0	24.58	24.49	24.49	0.1019	0.0998	0.0998
5	16QAM	1	0	23.73	23.66	23.72	0.0838	0.0824	0.0836



LTE Band 48_Ant3:

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	24.37	24.40	24.98	0.0971	0.0977	0.1117
20	QPSK	1	49	24.31	24.36	24.58	0.0957	0.0968	0.1019
20	QPSK	1	99	24.33	24.39	24.64	0.0962	0.0975	0.1033
20	QPSK	50	0	23.37	23.43	23.64	0.0771	0.0782	0.0820
20	QPSK	50	24	23.31	23.38	23.62	0.0760	0.0773	0.0817
20	QPSK	50	50	23.35	23.42	23.63	0.0767	0.0780	0.0818
20	QPSK	100	0	23.35	23.36	23.65	0.0767	0.0769	0.0822
20	16QAM	1	0	23.82	23.60	23.78	0.0855	0.0813	0.0847
20	64QAM	1	0	22.33	22.38	22.63	0.0607	0.0614	0.0650
20	256QAM	1	0	19.70	19.76	19.89	0.0331	0.0336	0.0346
Channel				55315	55990	56665	EIRP(W)		
Frequency (MHz)				3557.5	3625	3692.5	L	M	H
15	QPSK	1	0	24.21	24.28	24.56	0.0935	0.0951	0.1014
15	16QAM	1	0	23.78	23.56	23.74	0.0847	0.0805	0.0839
Channel				55290	55990	56690	EIRP(W)		
Frequency (MHz)				3555	3625	3695	L	M	H
10	QPSK	1	0	24.28	24.29	24.51	0.0951	0.0953	0.1002
10	16QAM	1	0	23.79	23.57	23.71	0.0849	0.0807	0.0834
Channel				55265	55990	56715	EIRP(W)		
Frequency (MHz)				3552.5	3625	3697.5	L	M	H
5	QPSK	1	0	24.30	24.34	24.50	0.0955	0.0964	0.1000
5	16QAM	1	0	23.80	23.58	23.70	0.0851	0.0809	0.0832

LTE CA_48B_Ant3:

Combination 10MHz+10MHz (50RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	15.23	0.0118
M	QPSK	1	Max	1	0	15.19	0.0117
H	QPSK	1	Max	1	0	15.11	0.0115
L	16QAM	1	Max	1	0	14.55	0.0101
M	16QAM	1	Max	1	0	14.40	0.0098
H	16QAM	1	Max	1	0	14.57	0.0102
L	64QAM	1	Max	1	0	12.30	0.0060
M	64QAM	1	Max	1	0	12.26	0.0060
H	64QAM	1	Max	1	0	12.24	0.0059
L	256QAM	1	Max	1	0	10.25	0.0038
M	256QAM	1	Max	1	0	10.22	0.0037
H	256QAM	1	Max	1	0	10.08	0.0036

LTE CA_48C_Ant3:

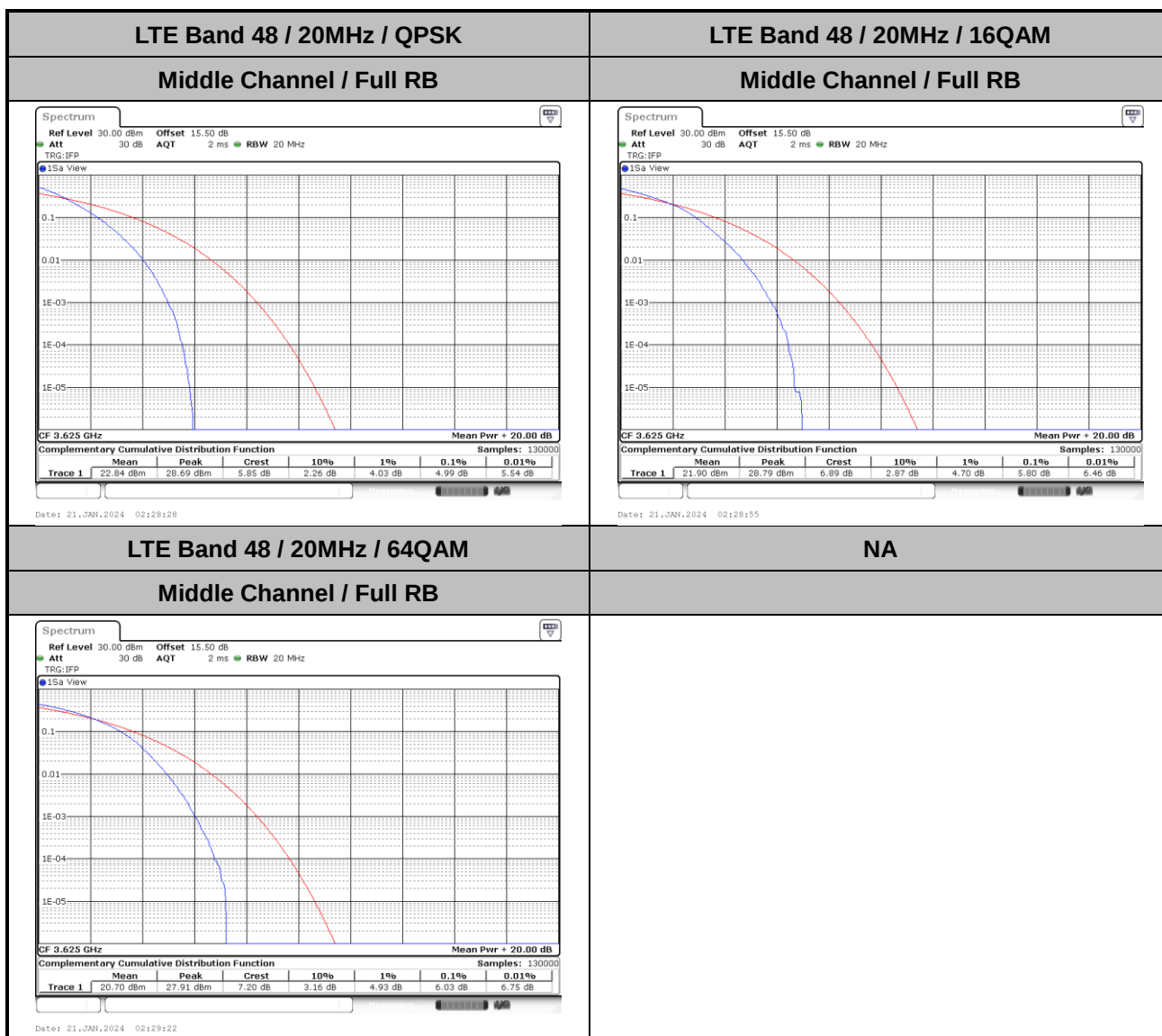
Combination 20MHz+20MHz (100RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	15.32	0.0121
M	QPSK	1	Max	1	0	15.29	0.0120
H	QPSK	1	Max	1	0	15.19	0.0117
L	16QAM	1	Max	1	0	14.65	0.0104
M	16QAM	1	Max	1	0	14.52	0.0100
H	16QAM	1	Max	1	0	14.62	0.0103
L	64QAM	1	Max	1	0	12.35	0.0061
M	64QAM	1	Max	1	0	12.33	0.0061
H	64QAM	1	Max	1	0	12.29	0.0060
L	256QAM	1	Max	1	0	10.32	0.0038
M	256QAM	1	Max	1	0	10.30	0.0038
H	256QAM	1	Max	1	0	10.22	0.0037
Combination 20MHz+15MHz (100RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	15.12	0.0115
L	16QAM	1	Max	1	0	14.46	0.0099
Combination 15MHz+20MHz (100RB+75RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	15.15	0.0116
L	16QAM	1	Max	1	0	14.45	0.0099
Combination 20MHz+10MHz (100RB+50RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	15.04	0.0113
L	16QAM	1	Max	1	0	14.44	0.0099
Combination 10MHz+20MHz (50RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	15.15	0.0116
L	16QAM	1	Max	1	0	14.43	0.0098
Combination 20MHz+5MHz (100RB+25RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	15.04	0.0113
L	16QAM	1	Max	1	0	14.46	0.0099
Combination 5MHz+20MHz (25RB+100RB)							
Channel	Modulation	PCC		SCC		Measured Power	EIRP(W)
		RB Size	RB offset	RB Size	RB offset		
L	QPSK	1	Max	1	0	15.16	0.0116
L	16QAM	1	Max	1	0	14.47	0.0099



LTE Band 48

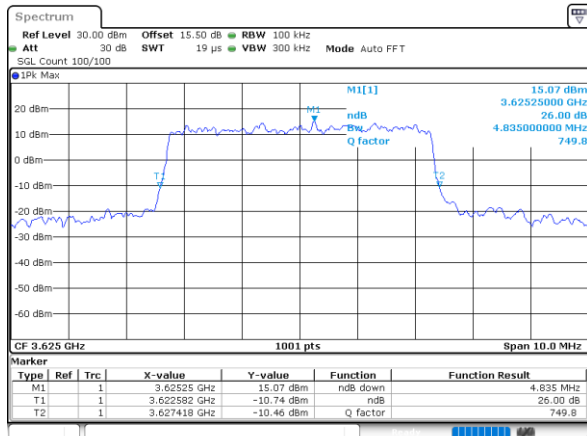
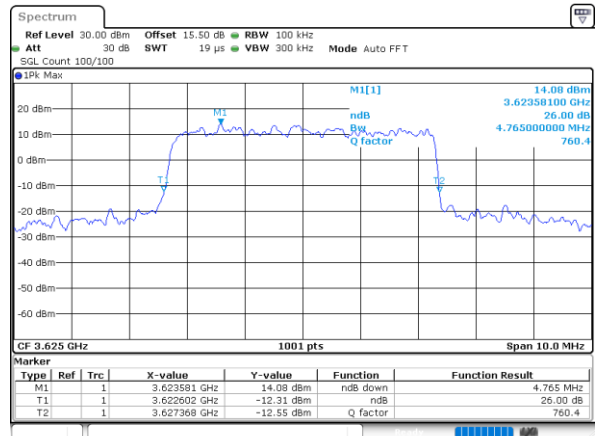
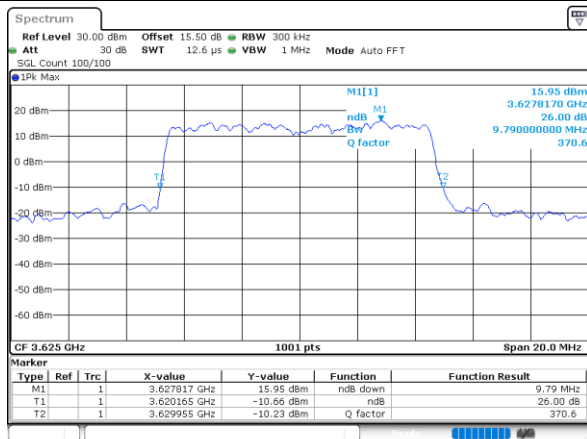
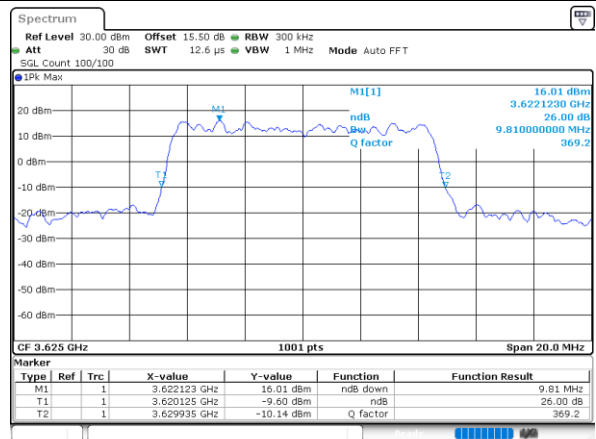
Peak-to-Average Ratio

Mode	LTE Band 48 / 20MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.99	5.80	6.03	PASS



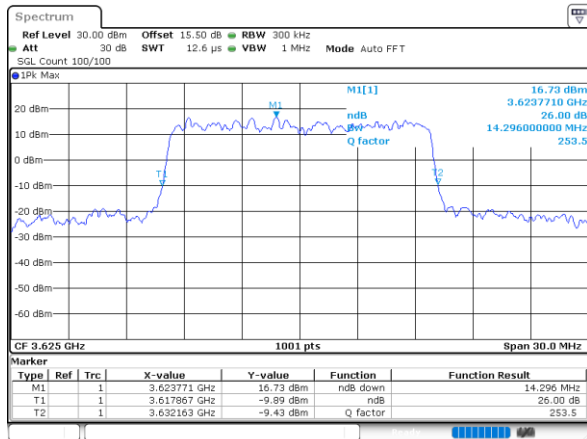
**26dB Bandwidth**

Mode	LTE Band 48 : 26dB BW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.84	4.77	9.79	9.81	4.84	4.77	9.79	9.81

LTE Band 48**Middle Channel / 5MHz / QPSK****Middle Channel / 5MHz / 16QAM****Middle Channel / 10MHz / QPSK****Middle Channel / 10MHz / 16QAM**

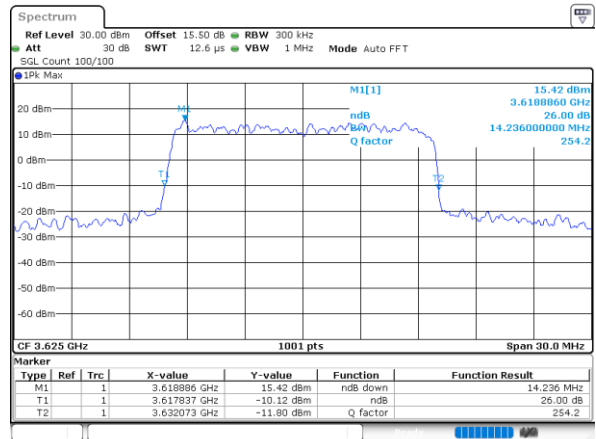


Middle Channel / 15MHz / QPSK



Date: 21.JAN.2024 01:18:03

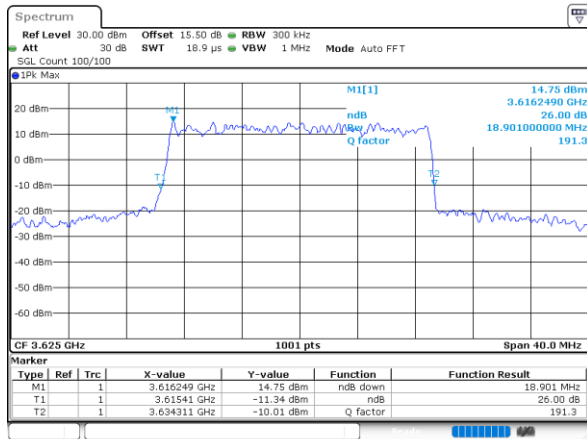
Middle Channel / 15MHz / 16QAM



Date: 21.JAN.2024 01:18:28

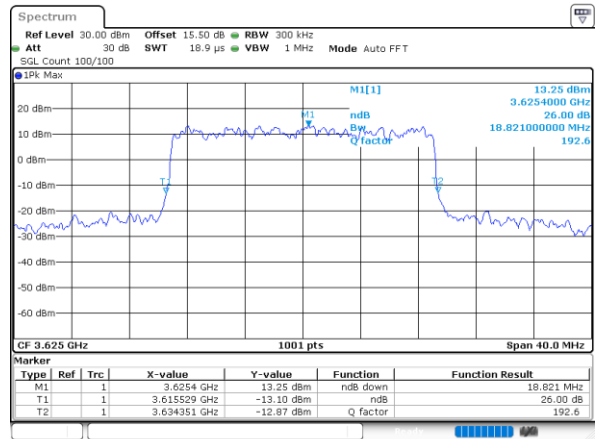
LTE Band 48

Middle Channel / 20MHz / QPSK



Date: 21.JAN.2024 02:25:36

Middle Channel / 20MHz / 16QAM



Date: 21.JAN.2024 02:25:10

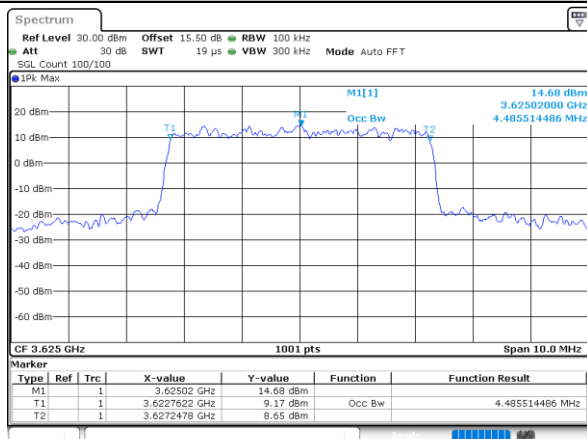


Occupied Bandwidth

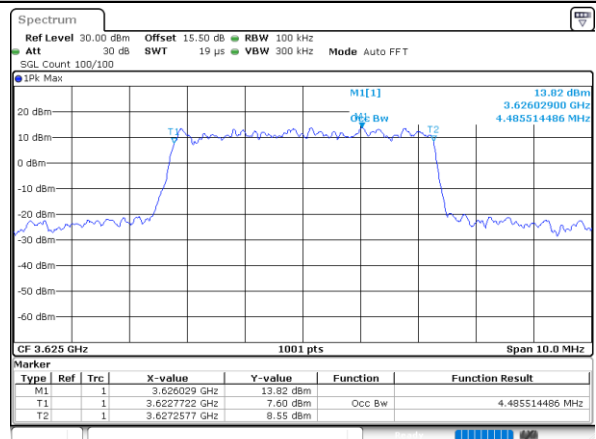
Mode	LTE Band 48 : 99%OBW(MHz)							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.49	4.49	8.99	9.05	13.46	13.40	17.70	17.82

LTE Band 48

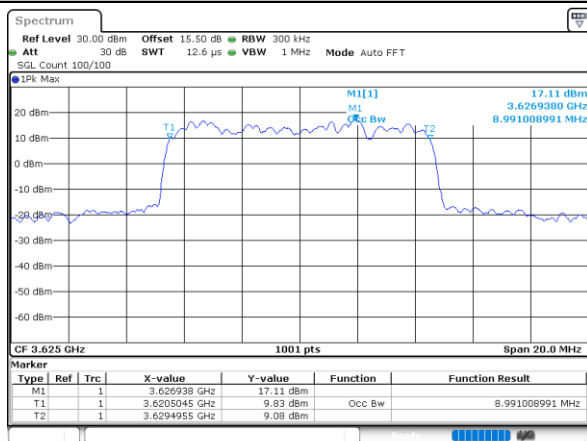
Middle Channel / 5MHz / QPSK



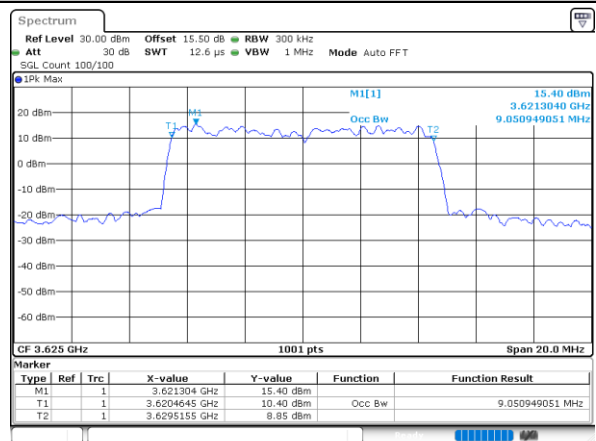
Middle Channel / 5MHz / 16QAM



Middle Channel / 10MHz / QPSK

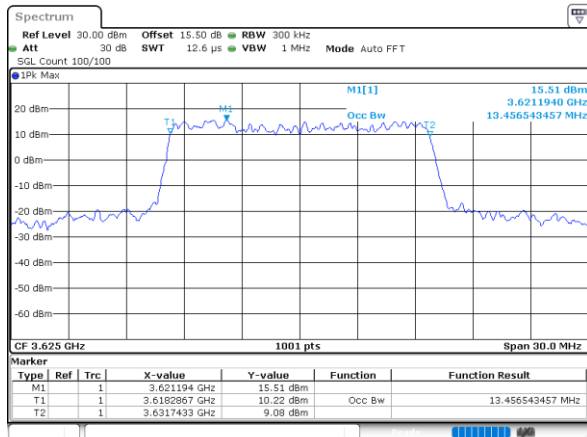


Middle Channel / 10MHz / 16QAM



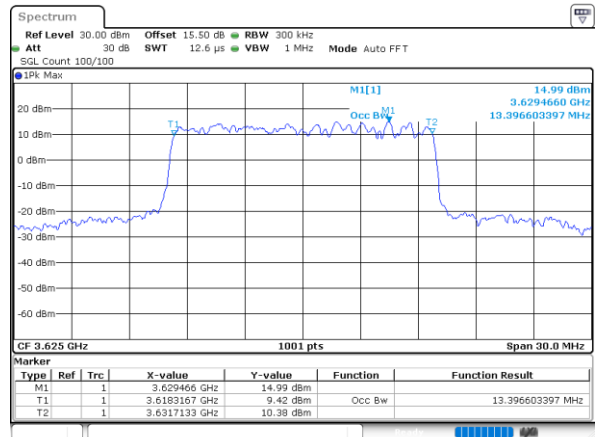


Middle Channel / 15MHz / QPSK



Date: 21.JAN.2024 01:17:49

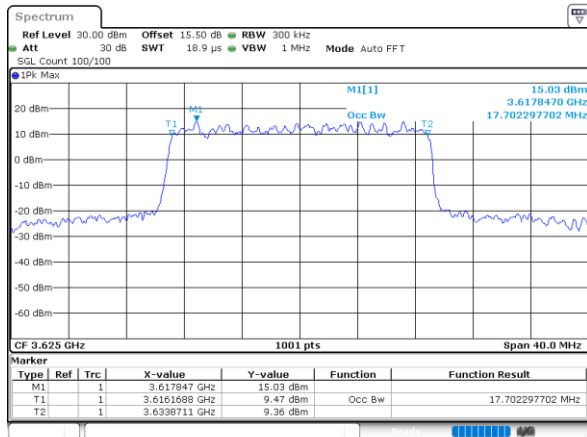
Middle Channel / 15MHz / 16QAM



Date: 21.JAN.2024 01:18:42

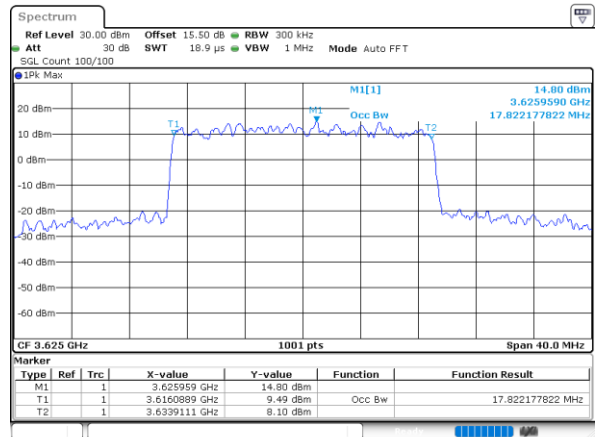
LTE Band 48

Middle Channel / 20MHz / QPSK



Date: 21.JAN.2024 02:25:50

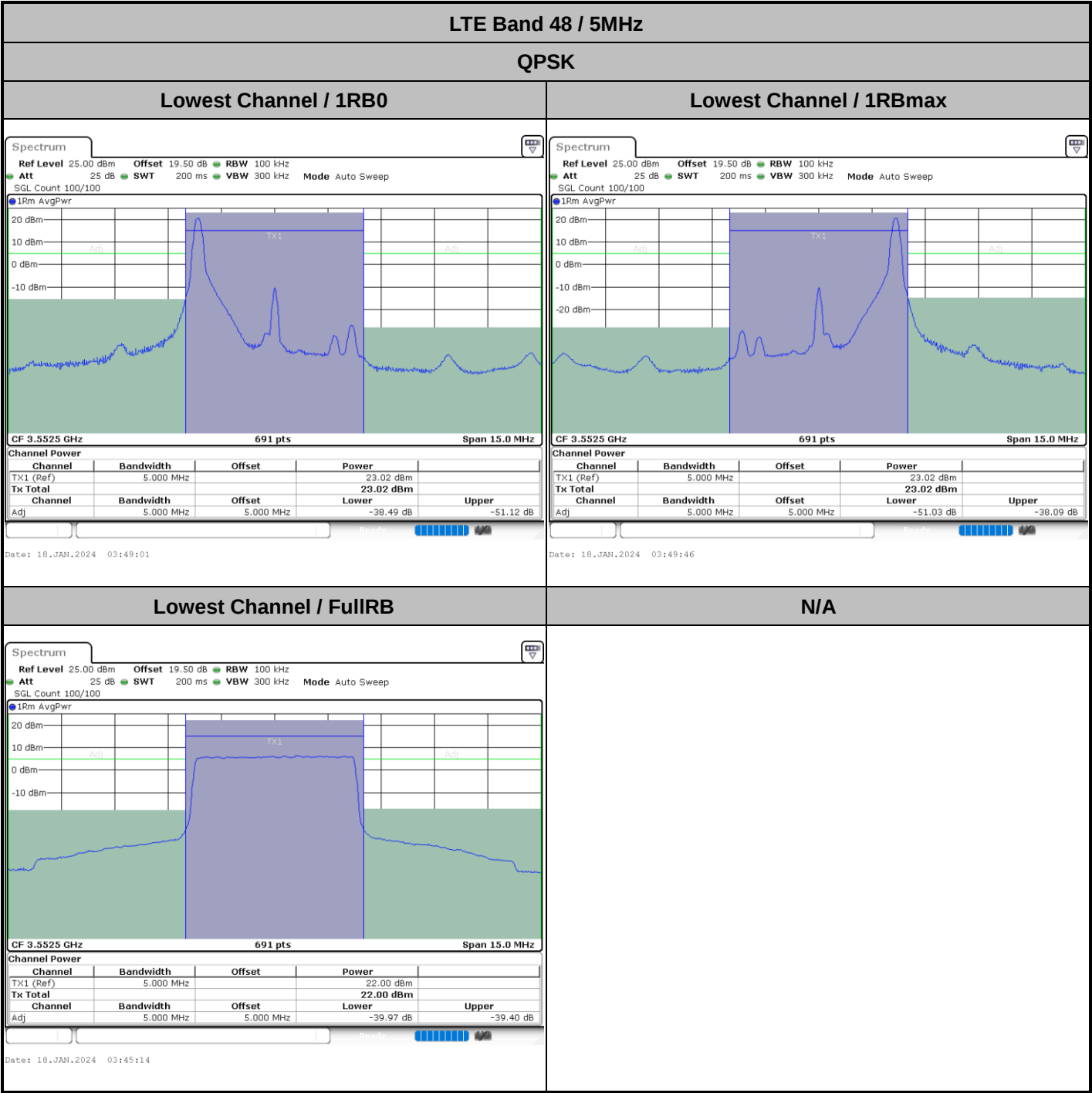
Middle Channel / 20MHz / 16QAM

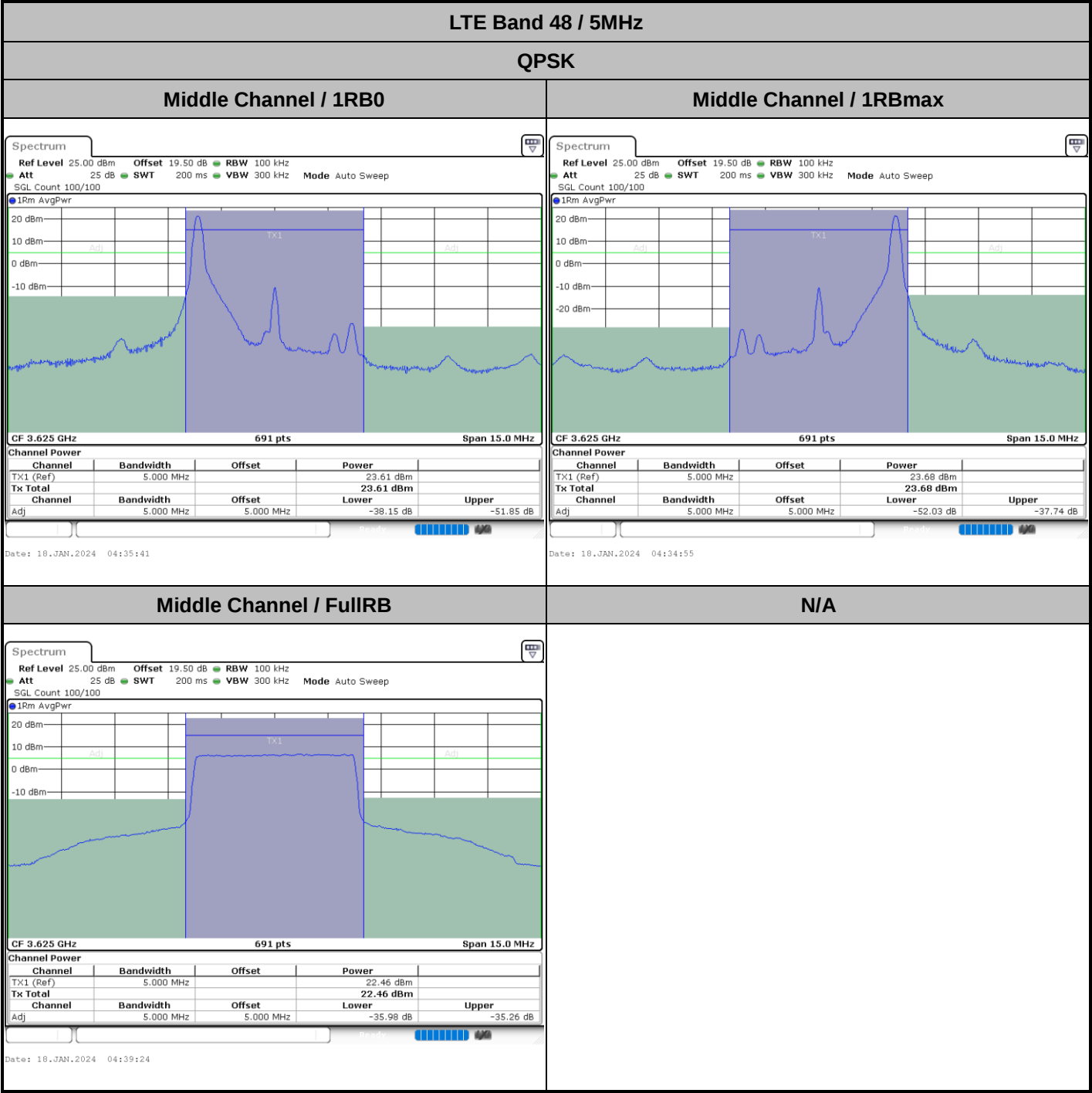


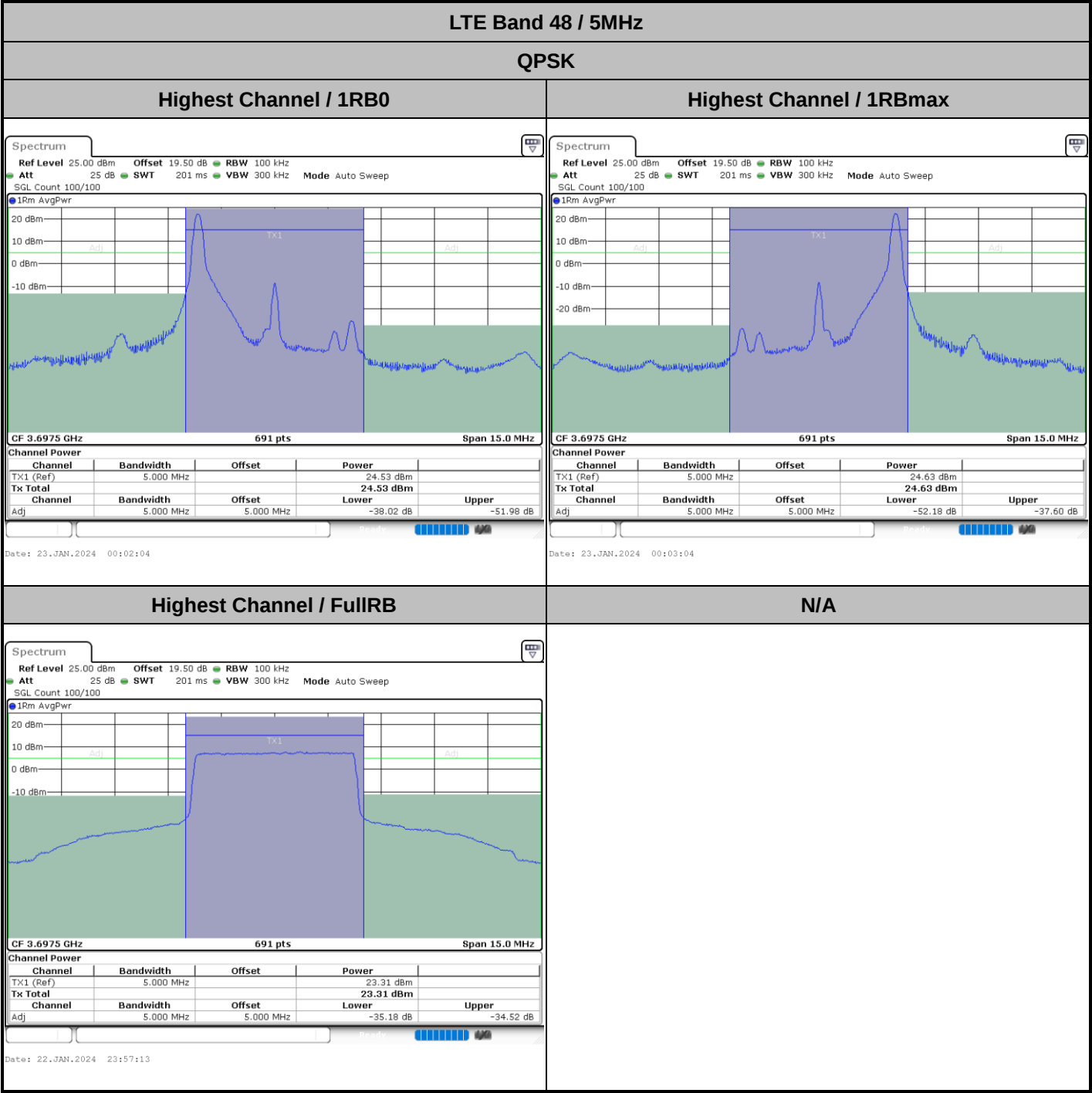
Date: 21.JAN.2024 02:24:56

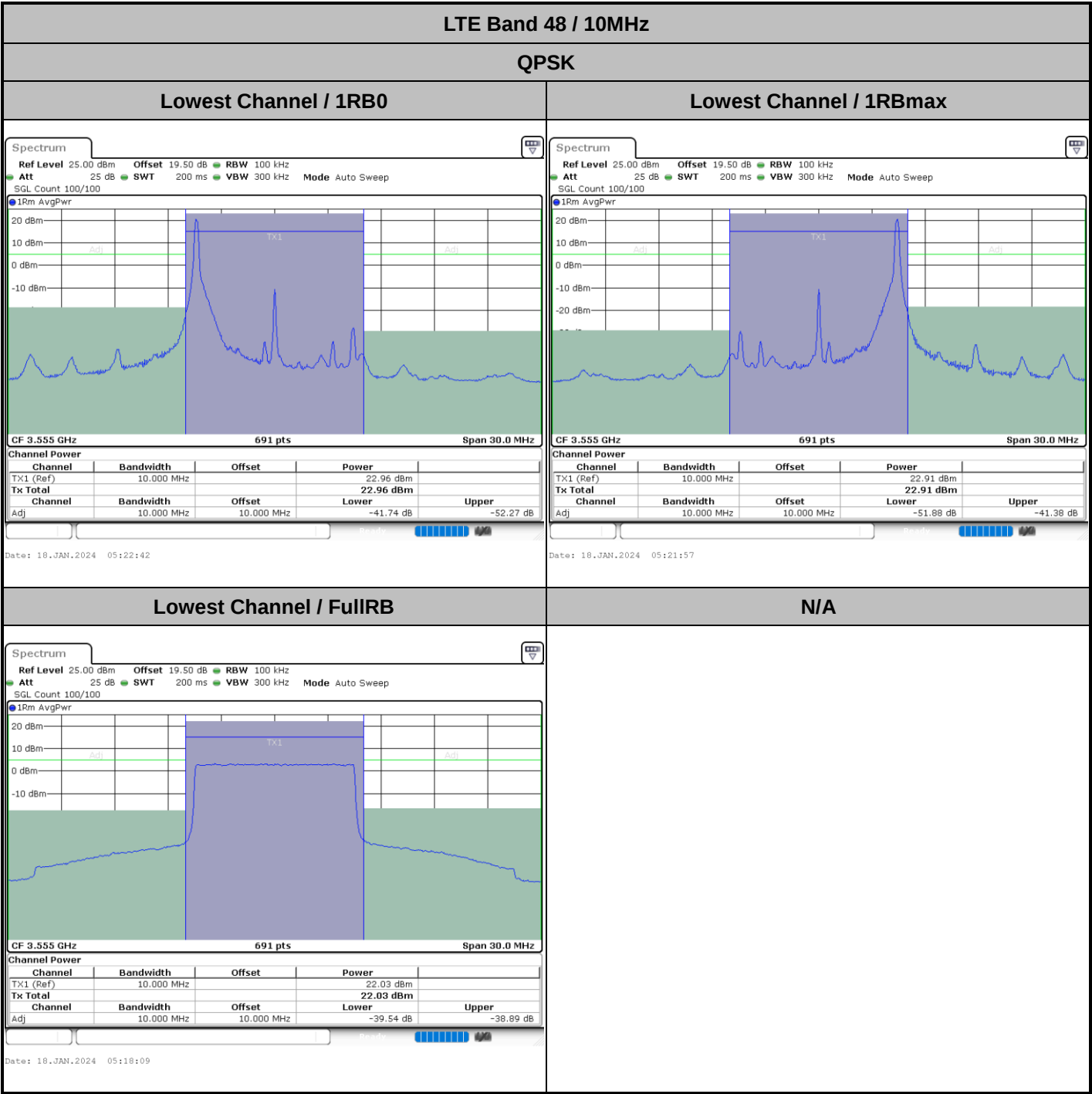


ACLR







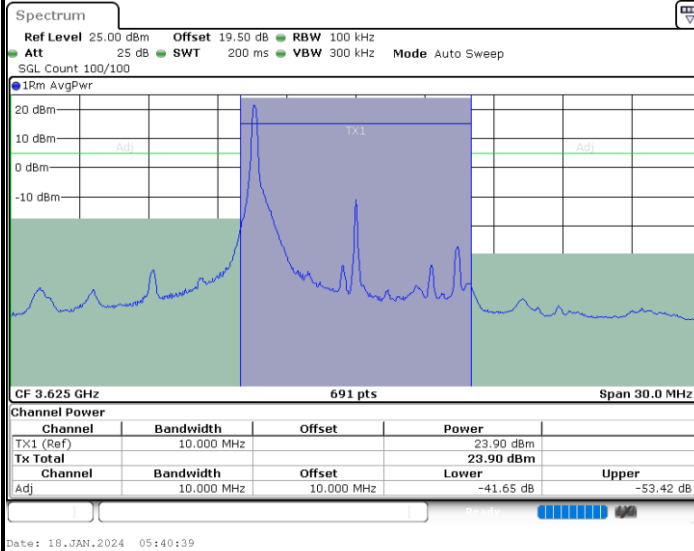




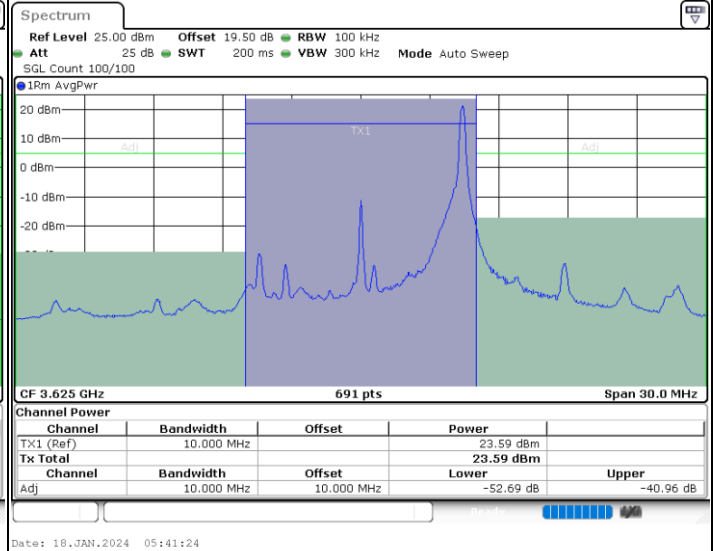
LTE Band 48 / 10MHz

QPSK

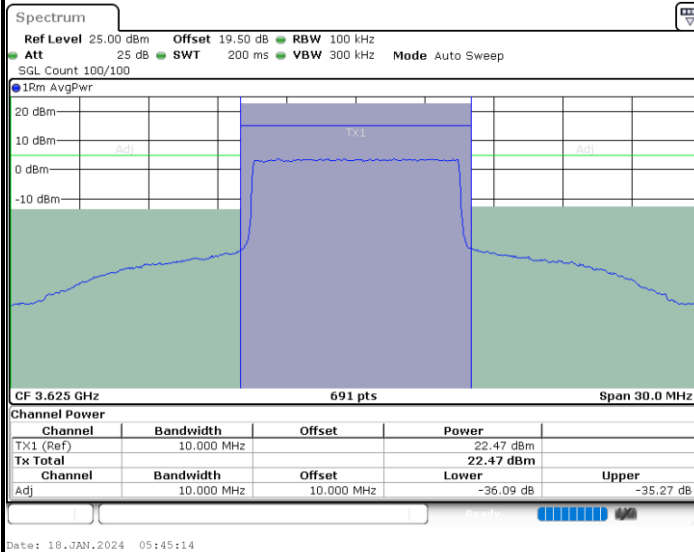
Middle Channel / 1RB0



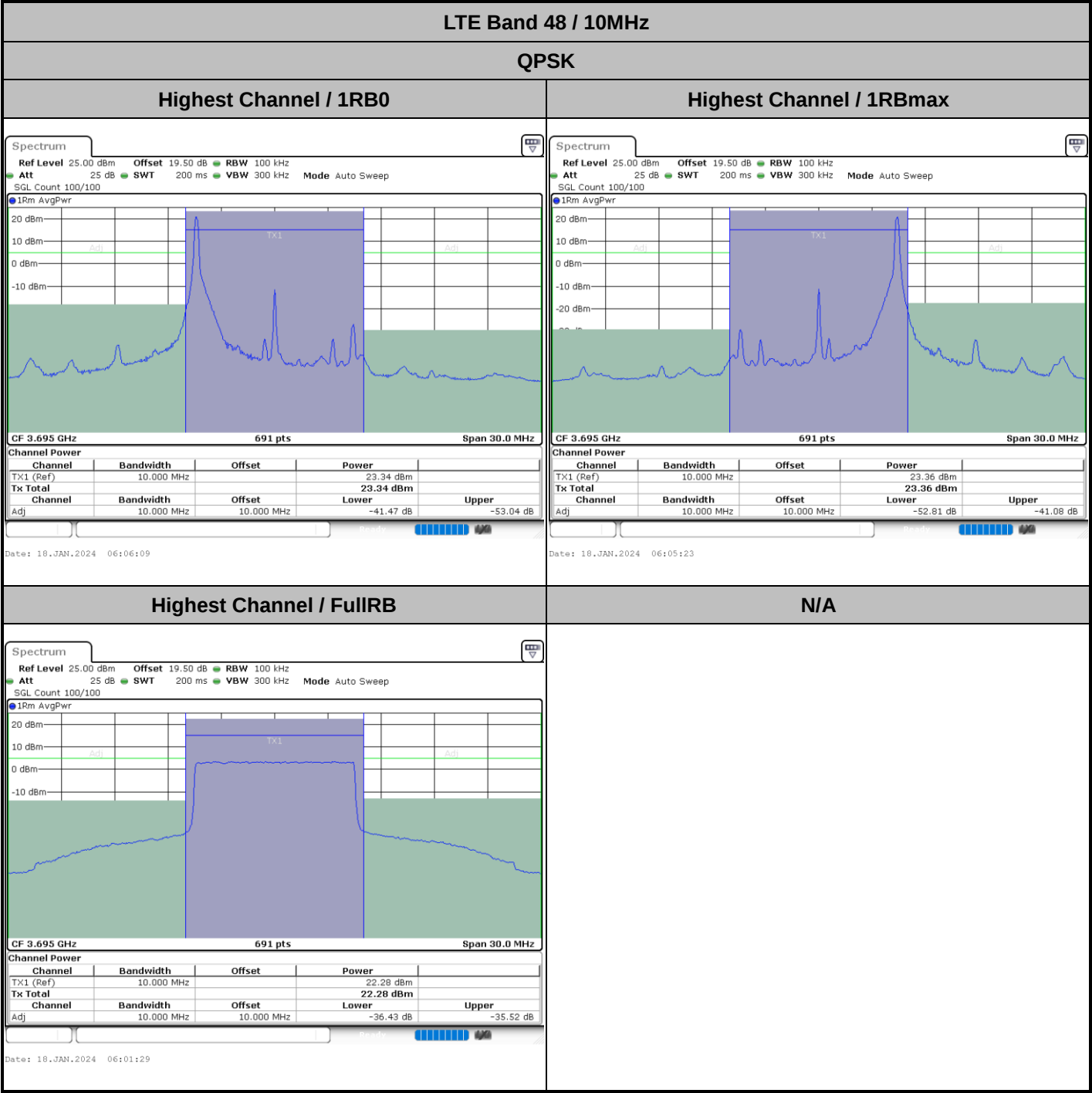
Middle Channel / 1RBmax

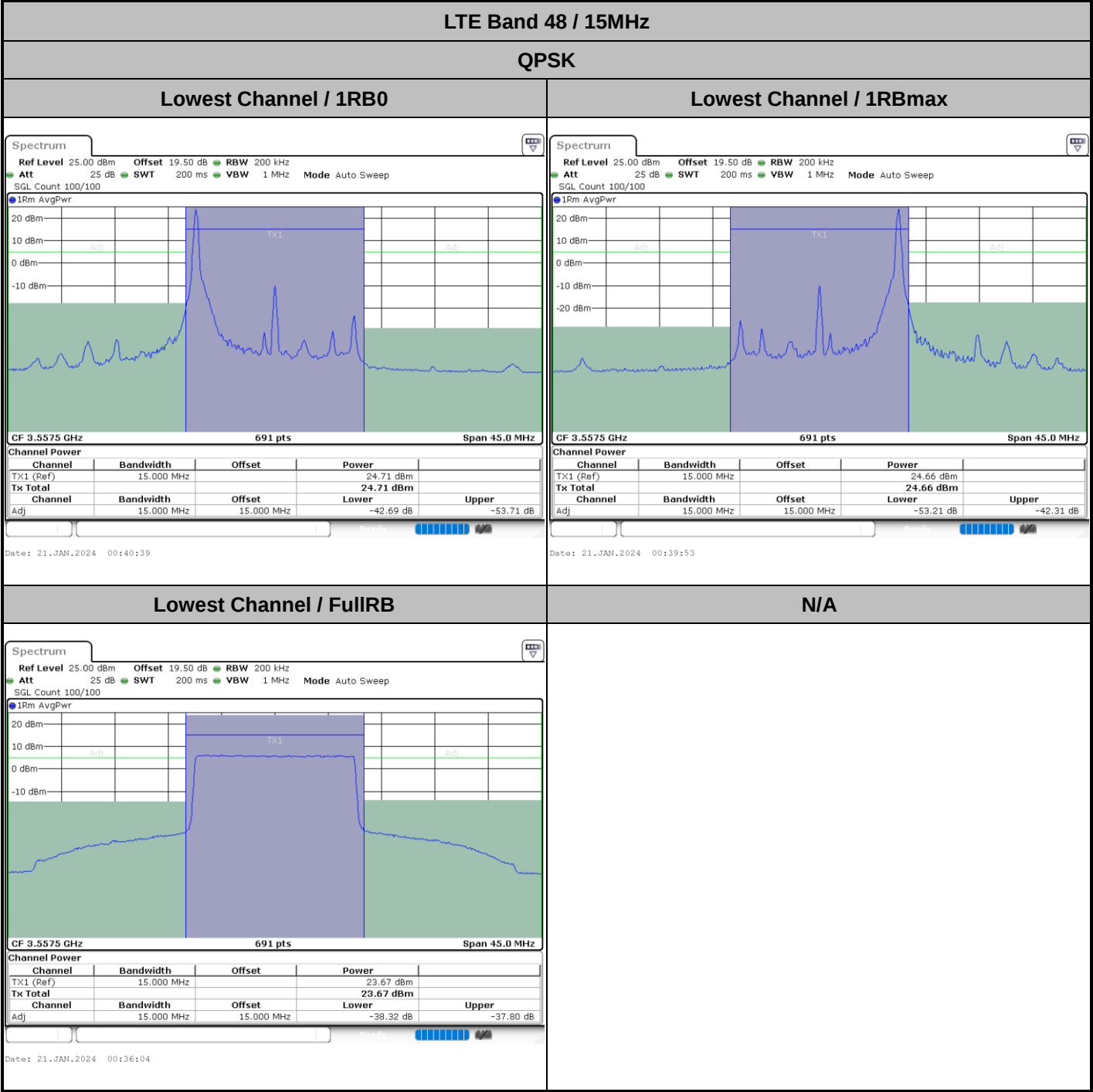


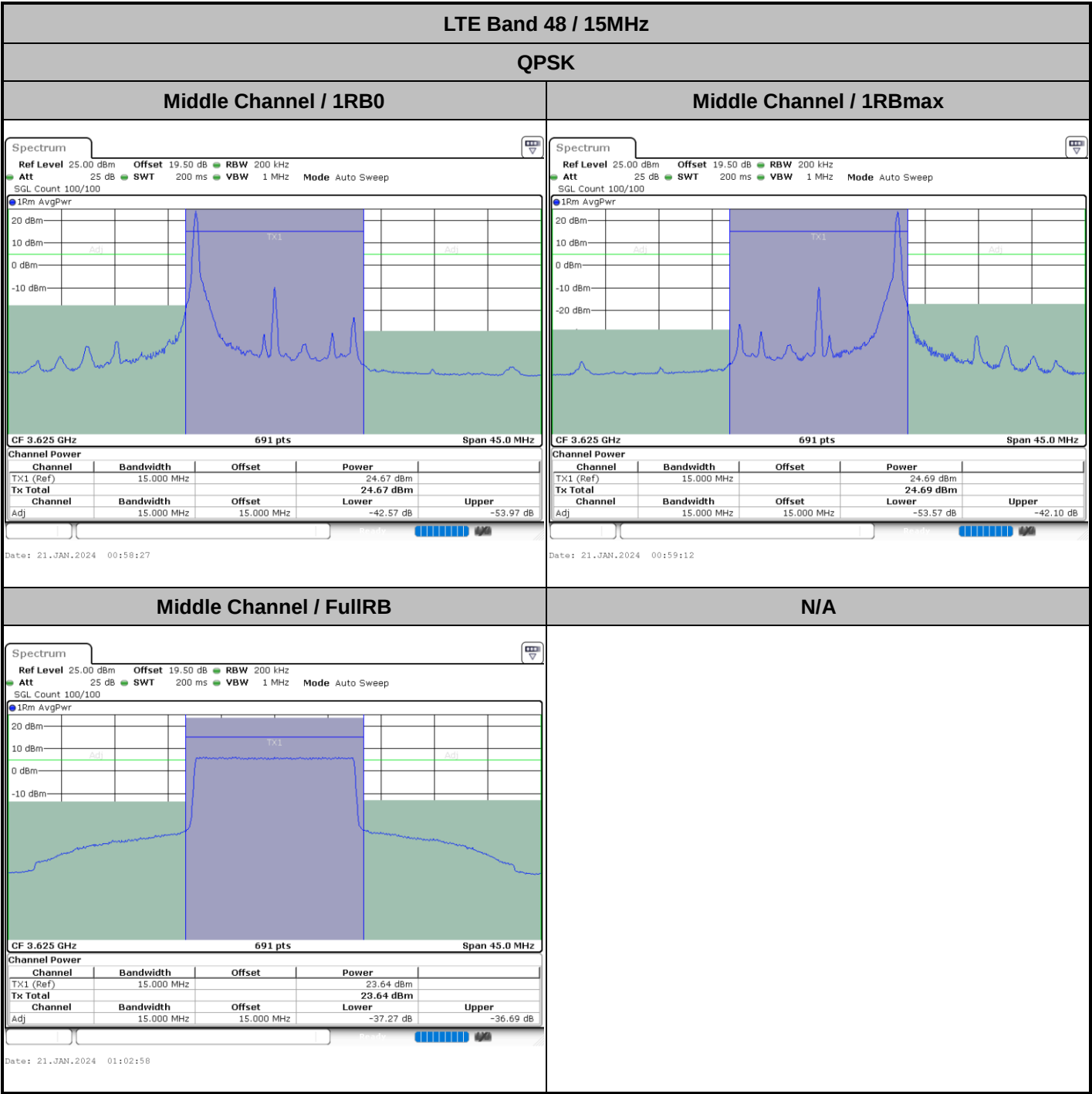
Middle Channel / FullRB

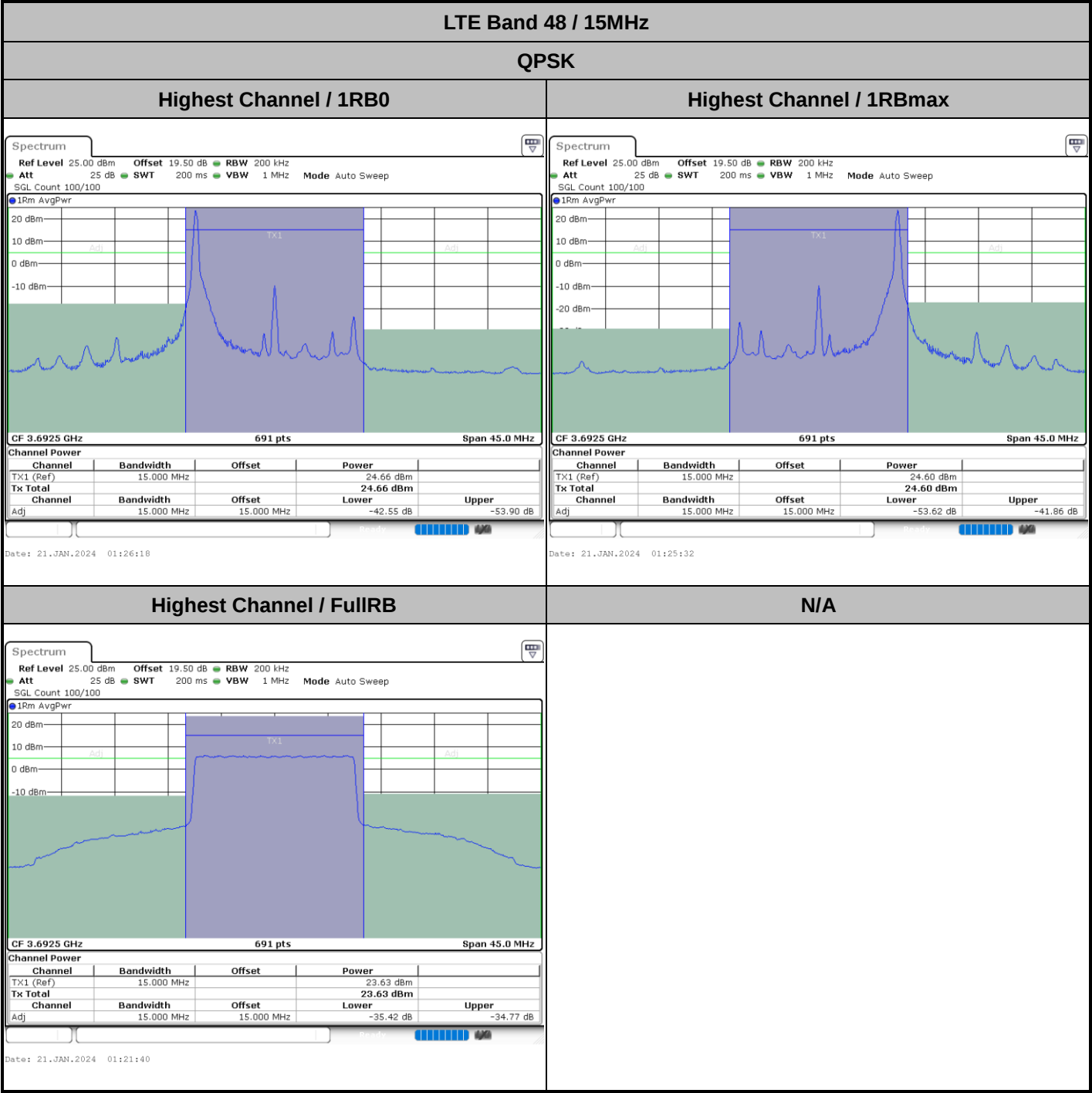


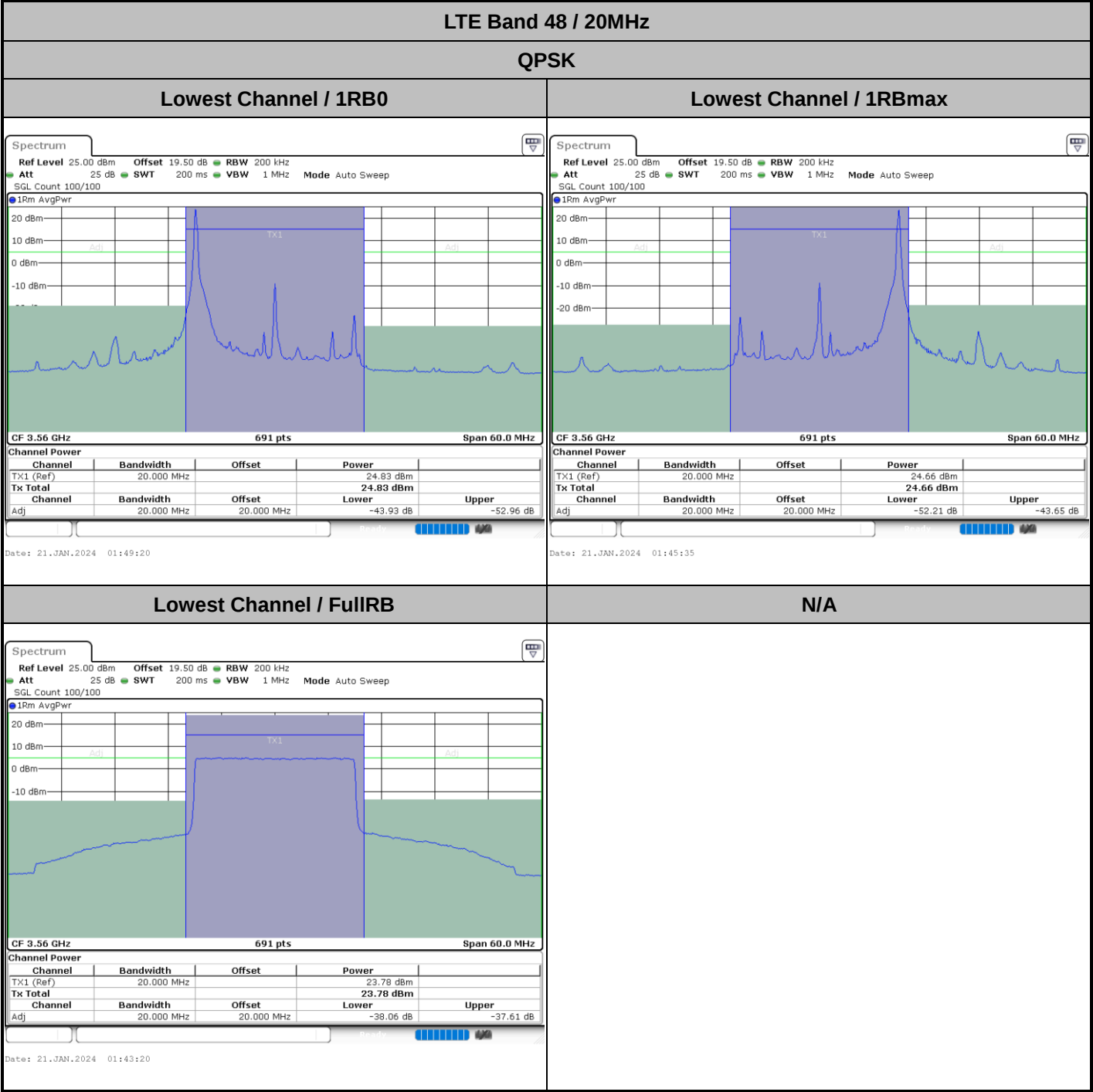
N/A









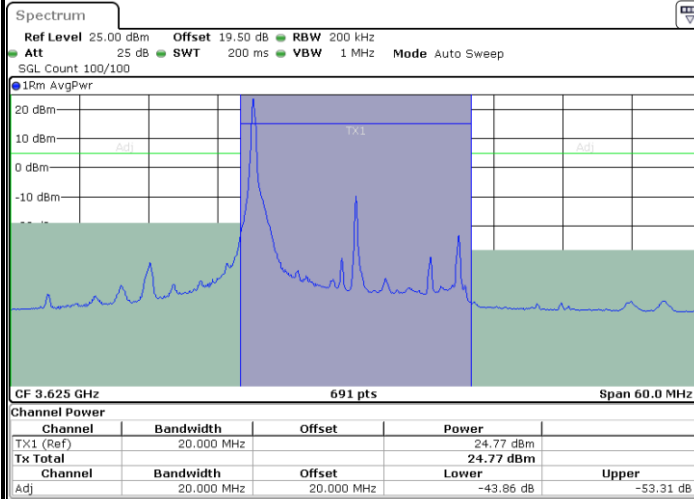




LTE Band 48 / 20MHz

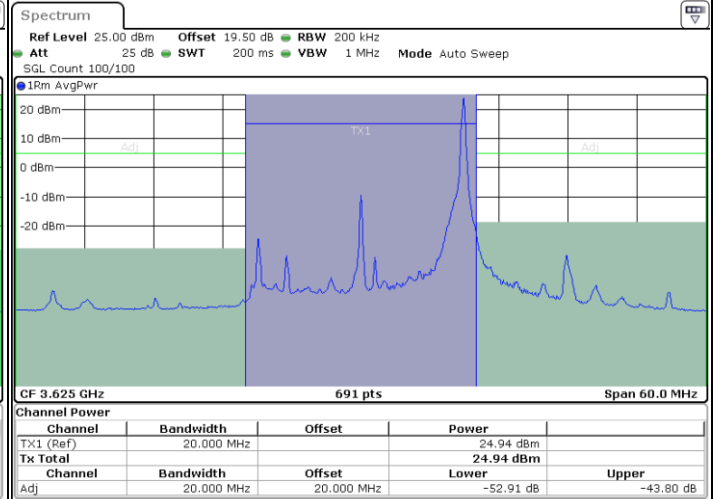
QPSK

Middle Channel / 1RB0



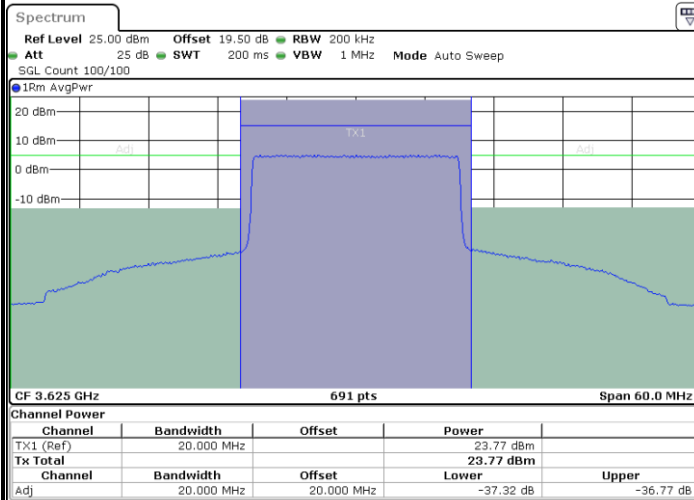
Date: 21.JAN.2024 02:04:08

Middle Channel / 1RBmax



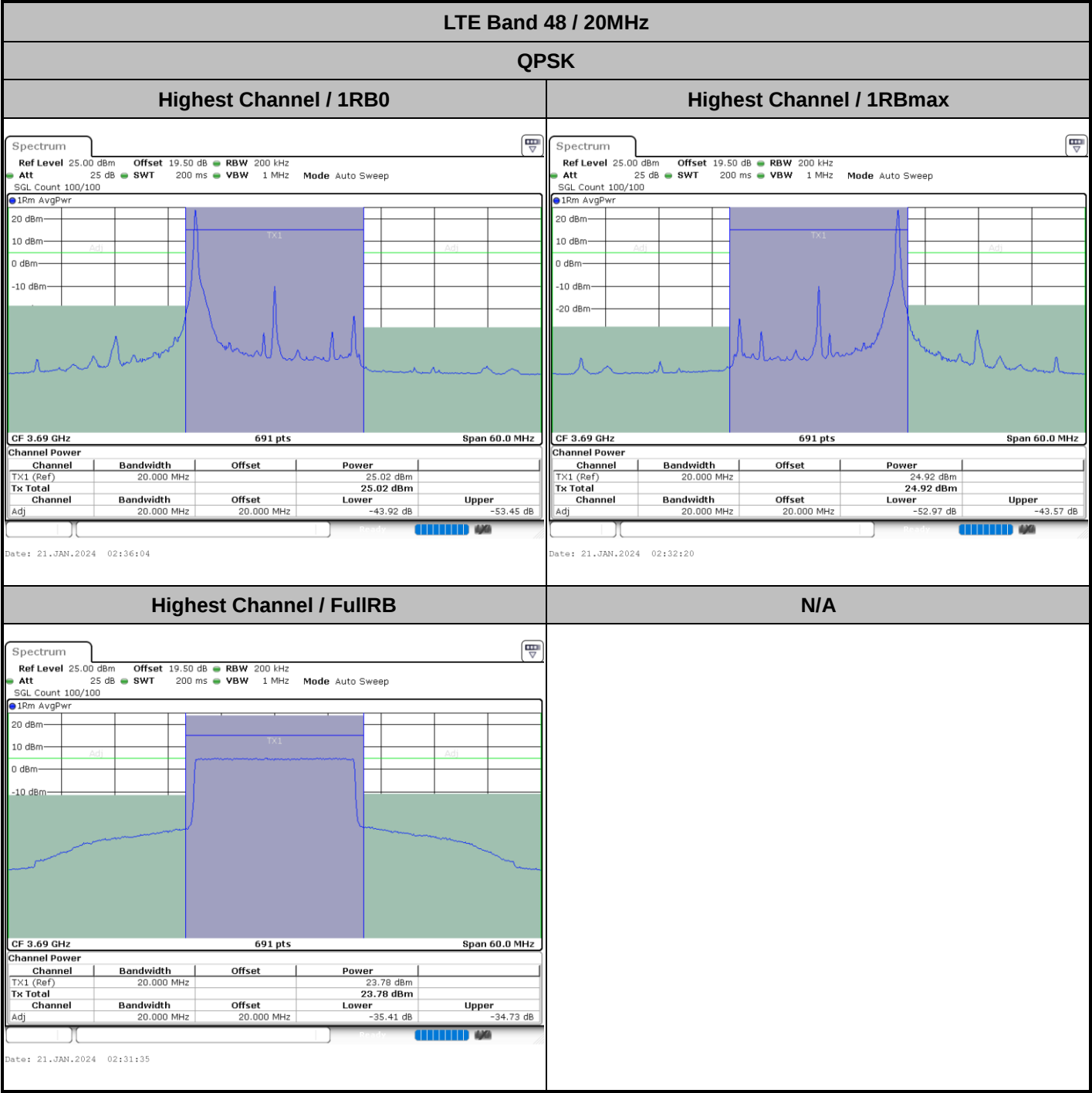
Date: 21.JAN.2024 02:07:50

Middle Channel / FullRB



Date: 21.JAN.2024 02:08:34

N/A

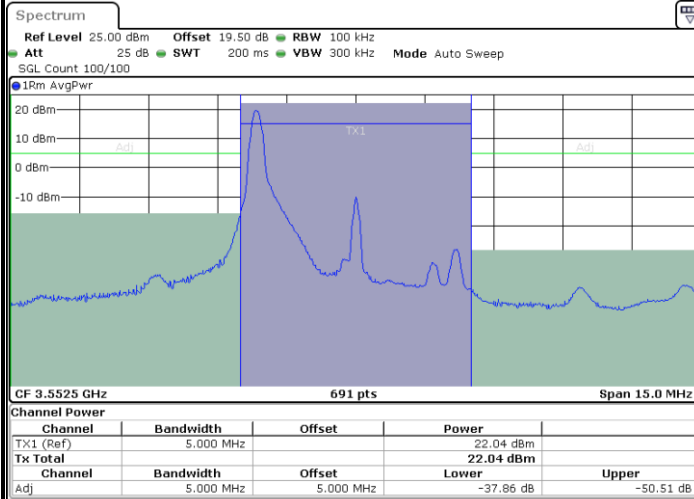




LTE Band 48 / 5MHz

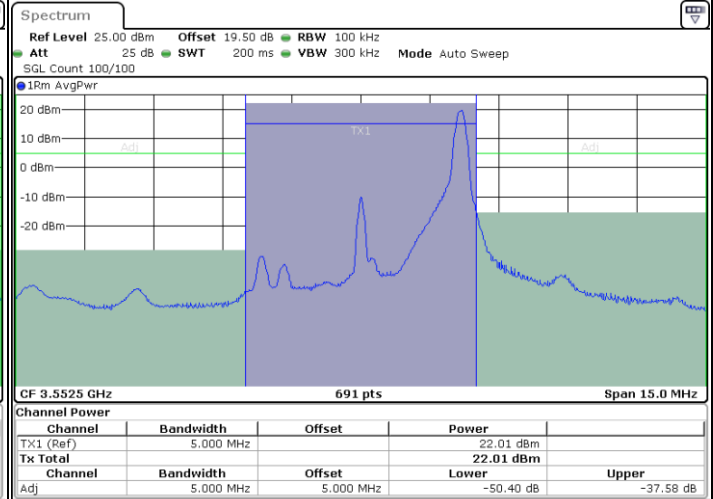
16QAM

Lowest Channel / 1RB0



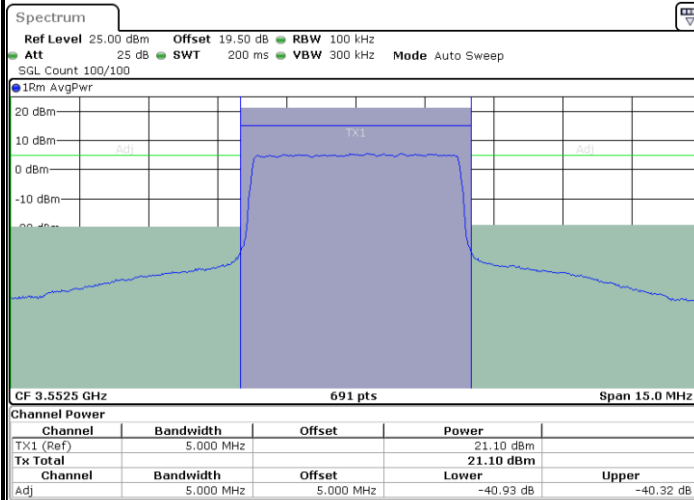
Date: 18.JAN.2024 03:48:16

Lowest Channel / 1RBmax



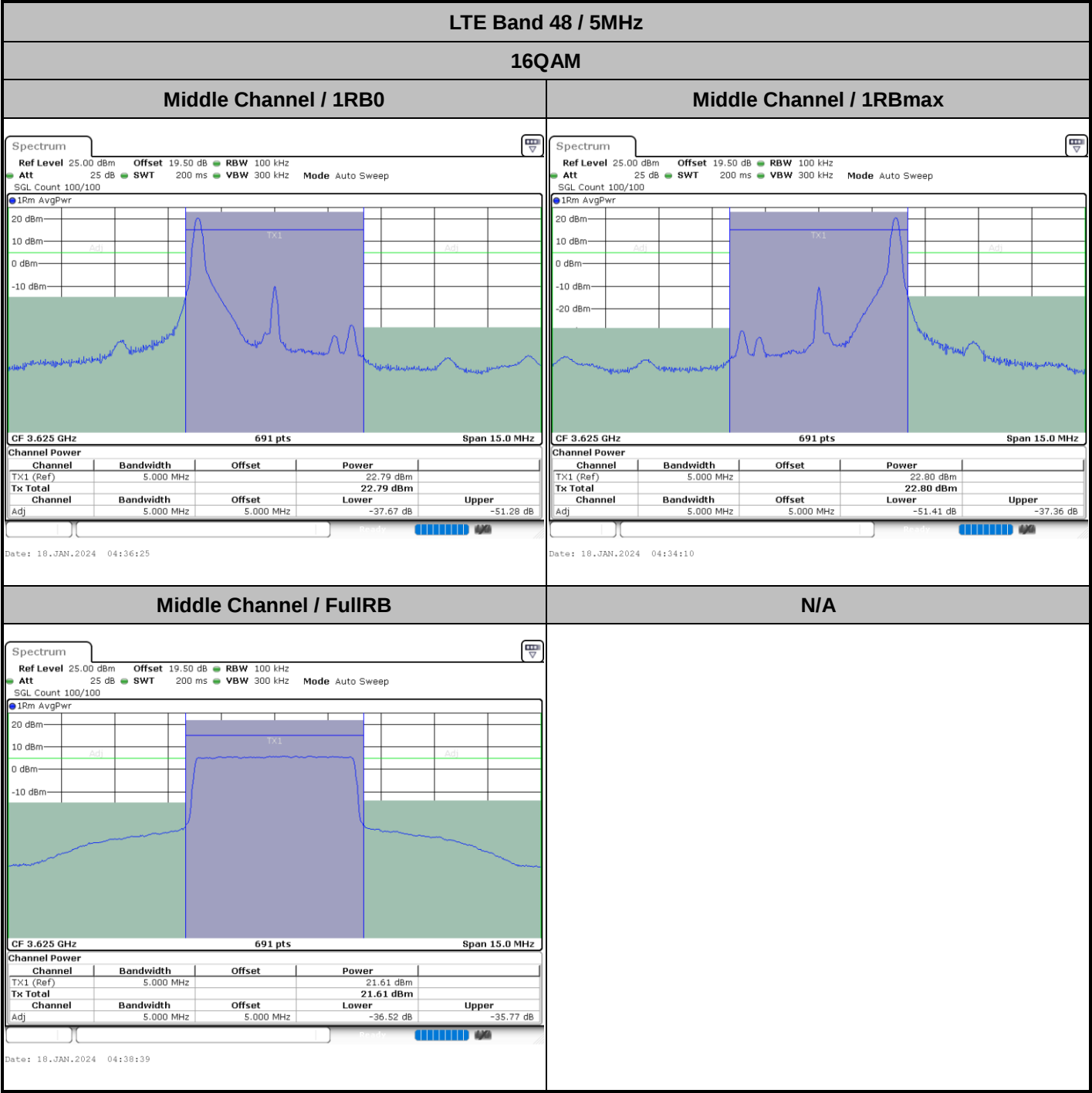
Date: 18.JAN.2024 03:50:32

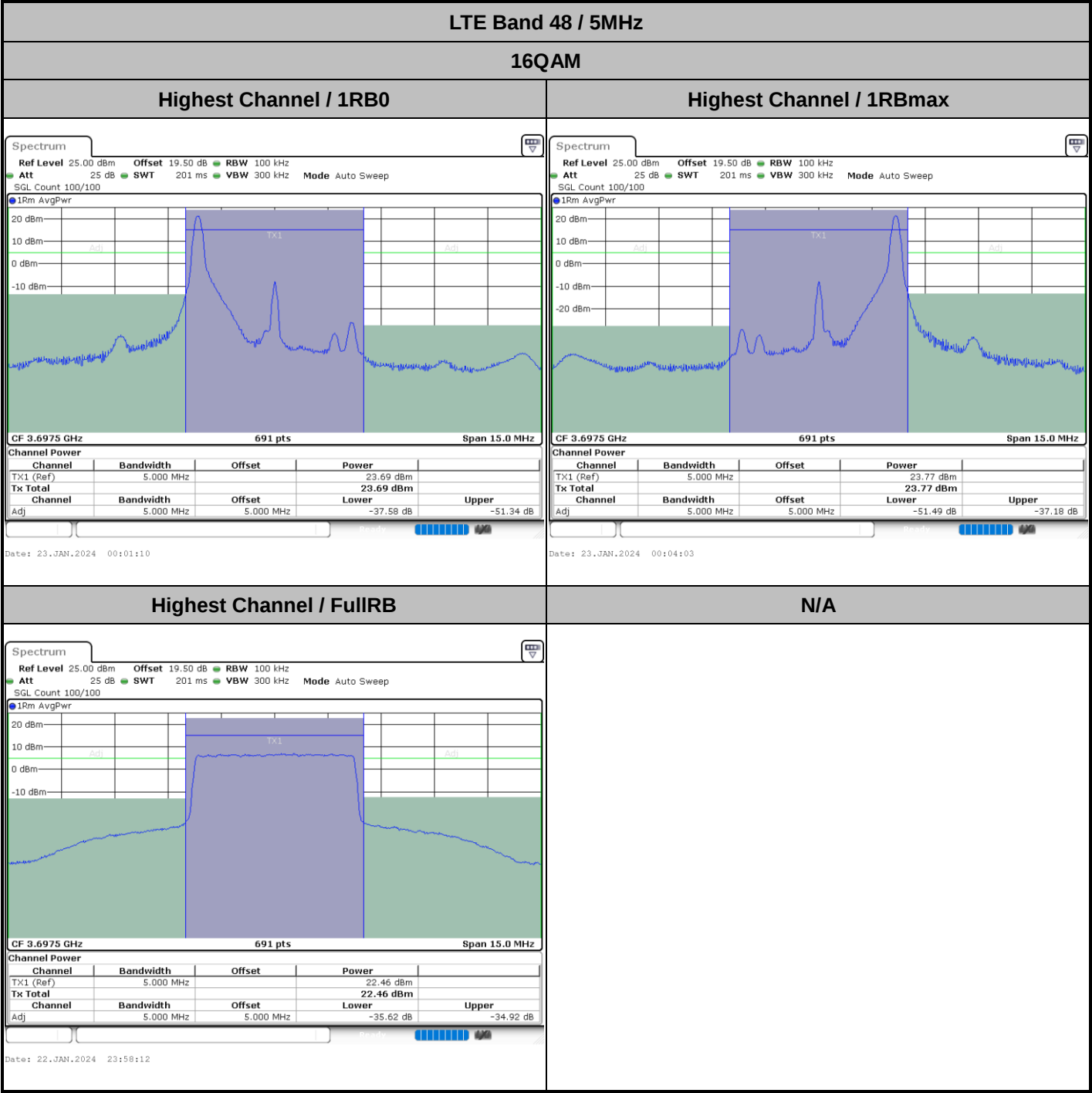
Lowest Channel / FullIRB



Date: 18.JAN.2024 03:46:01

N/A



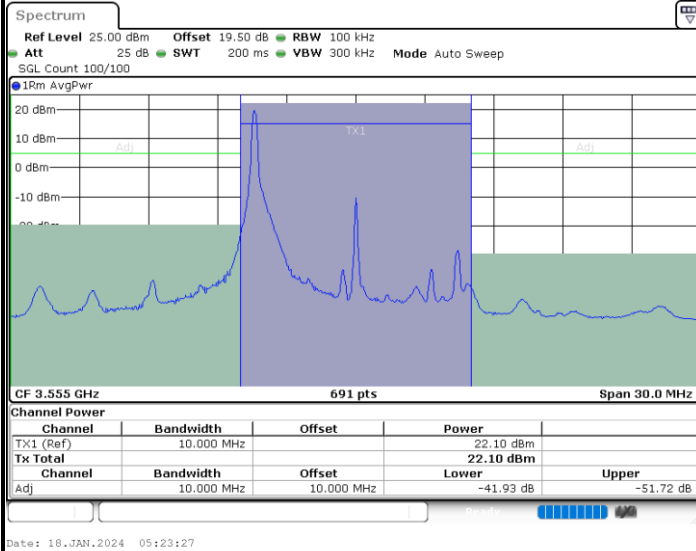




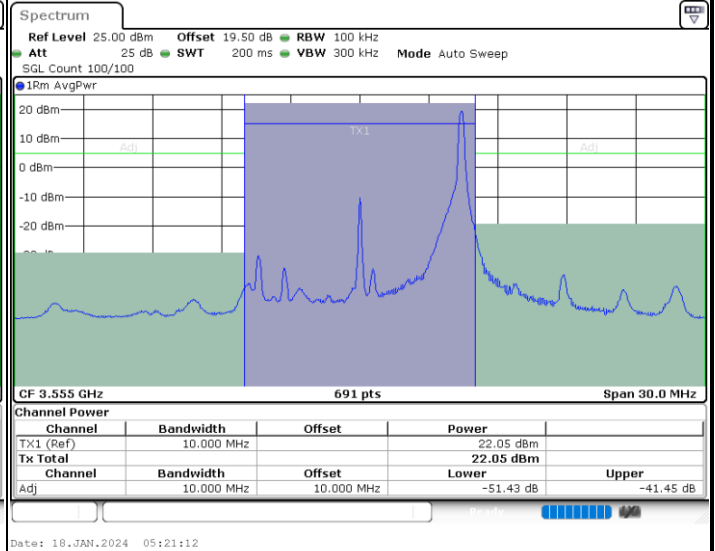
LTE Band 48 / 10MHz

16QAM

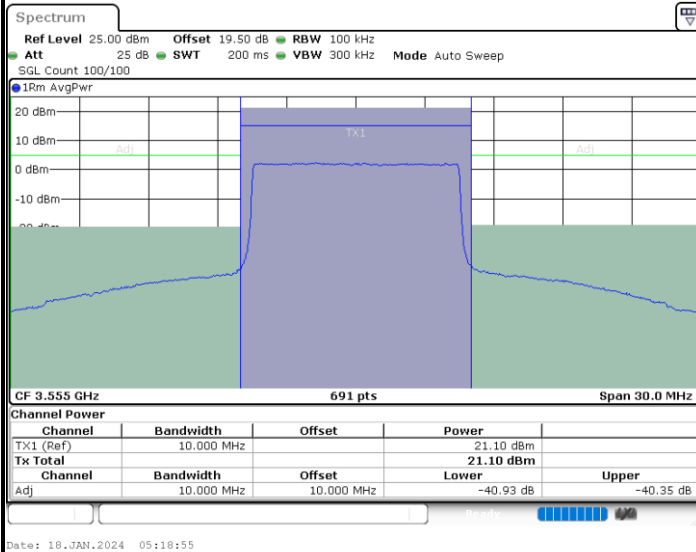
Lowest Channel / 1RB0



Lowest Channel / 1RBmax



Lowest Channel / FullIRB



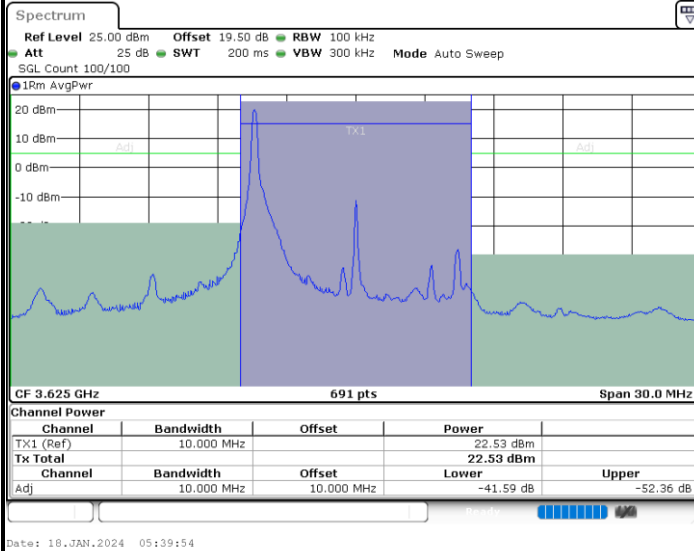
N/A



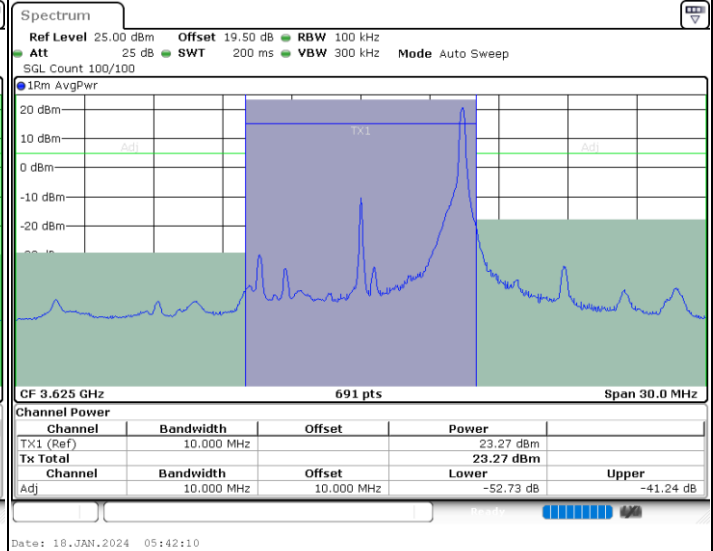
LTE Band 48 / 10MHz

16QAM

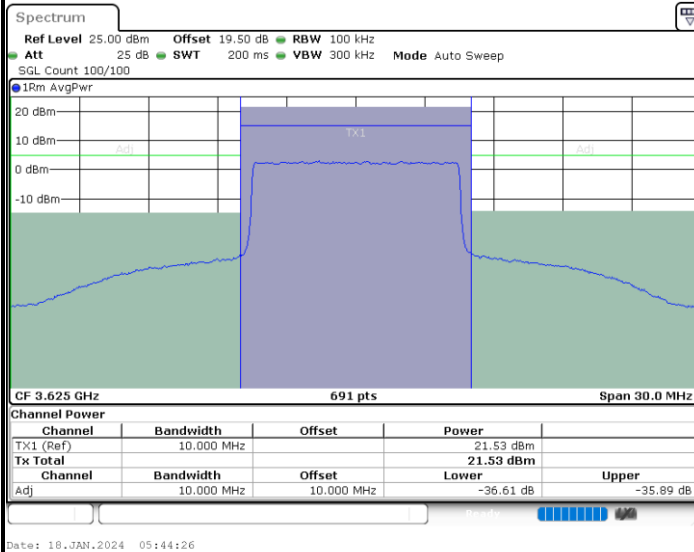
Middle Channel / 1RB0



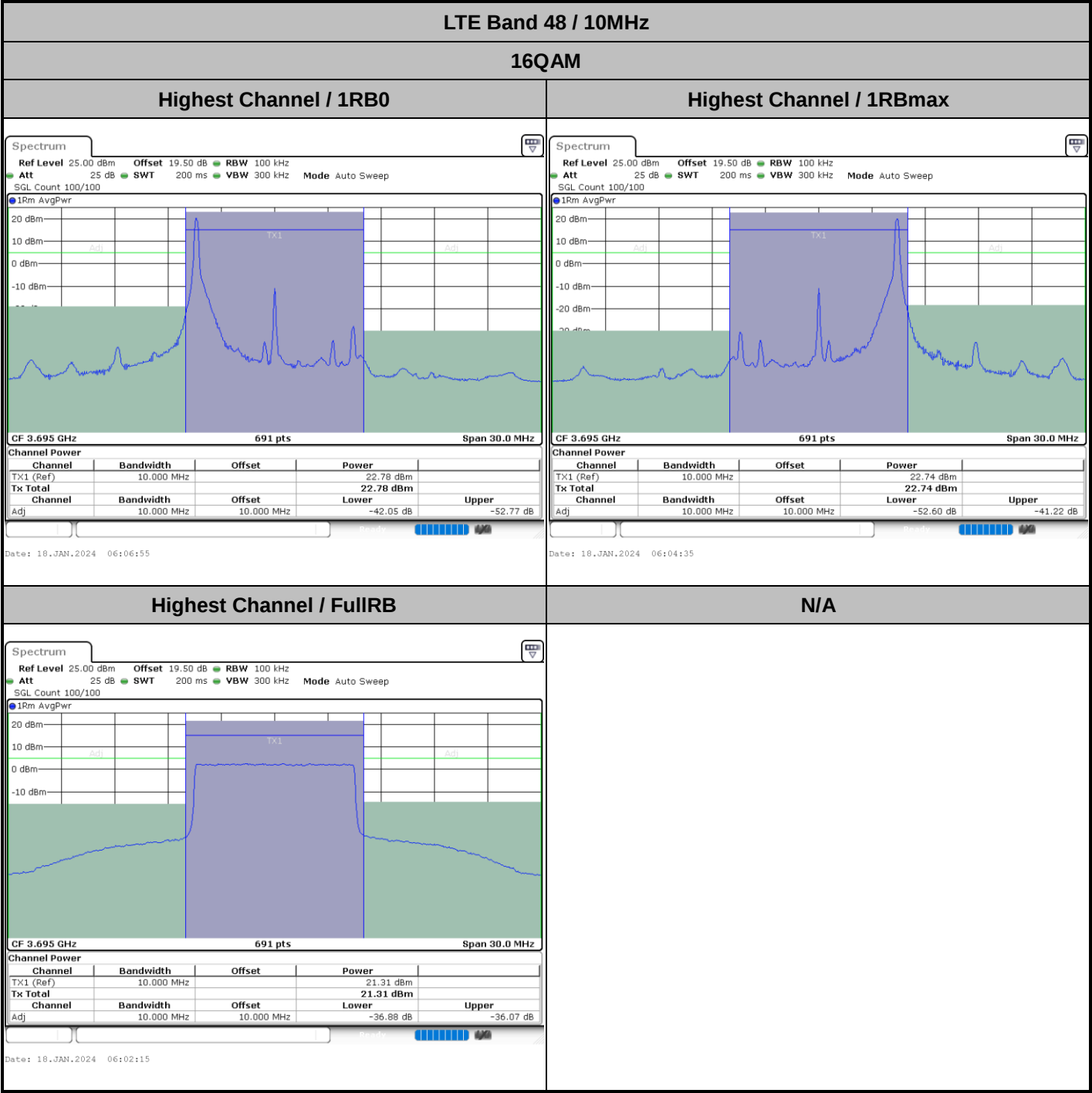
Middle Channel / 1RBmax



Middle Channel / FullRB



N/A

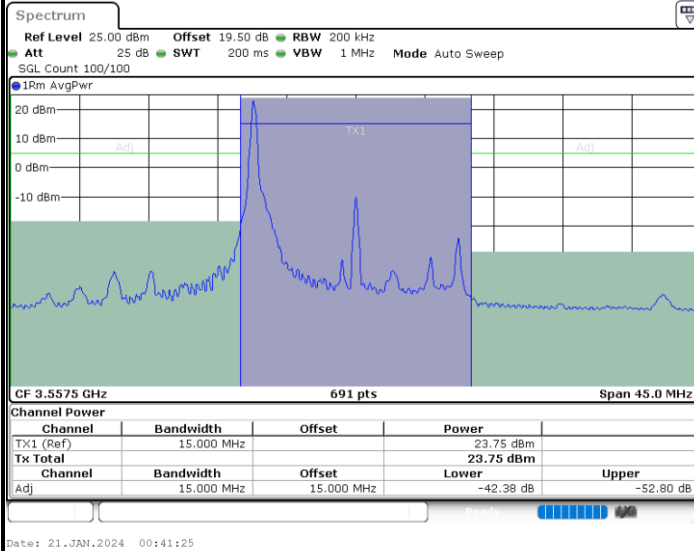




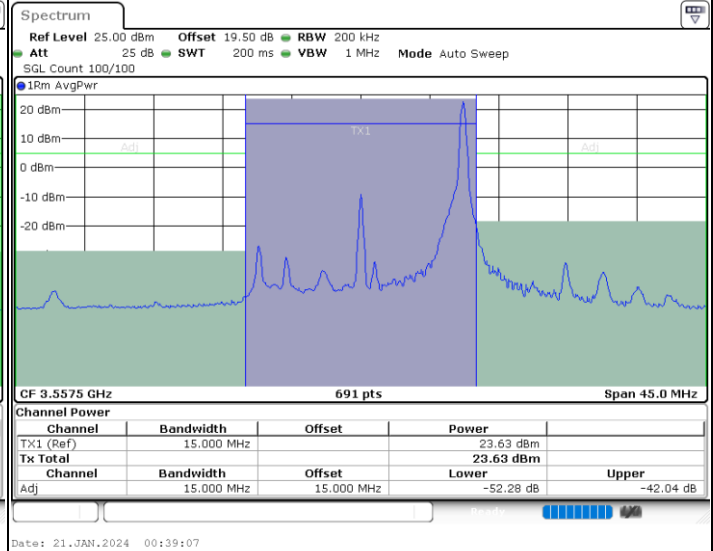
LTE Band 48 / 15MHz

16QAM

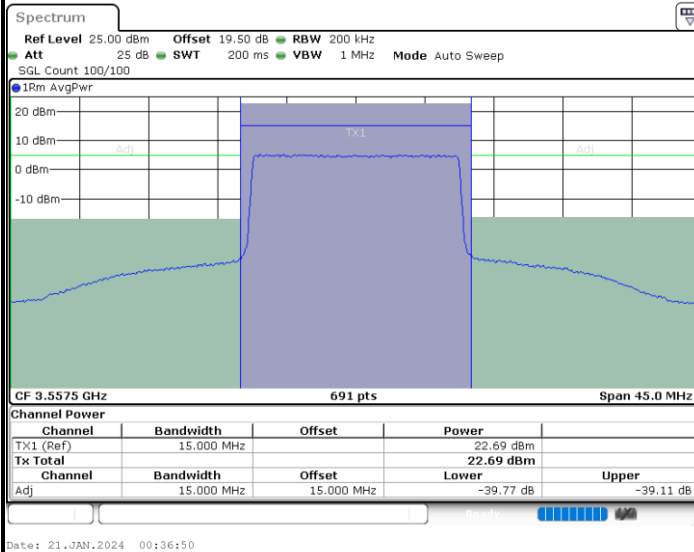
Lowest Channel / 1RB0



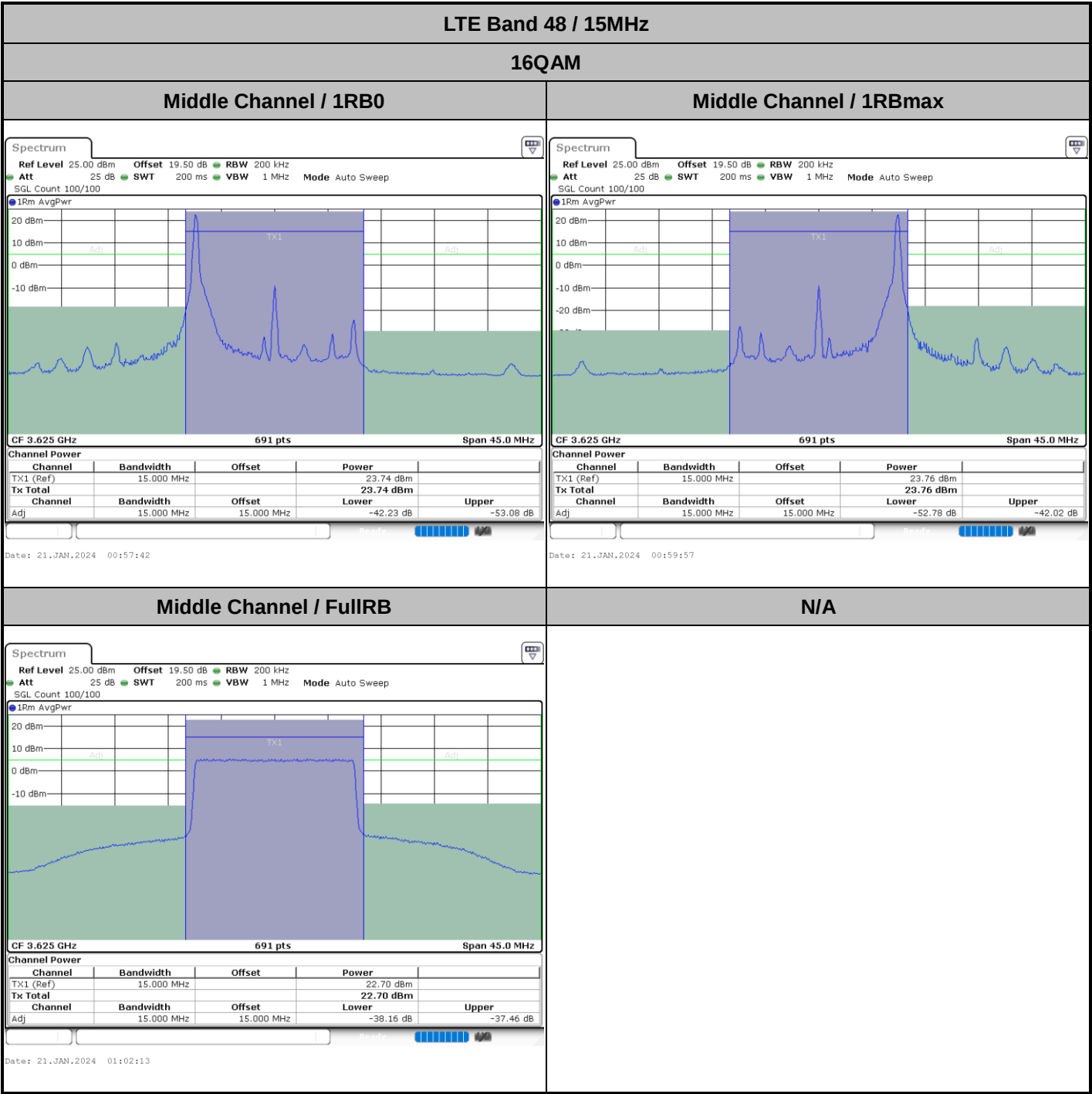
Lowest Channel / 1RBmax

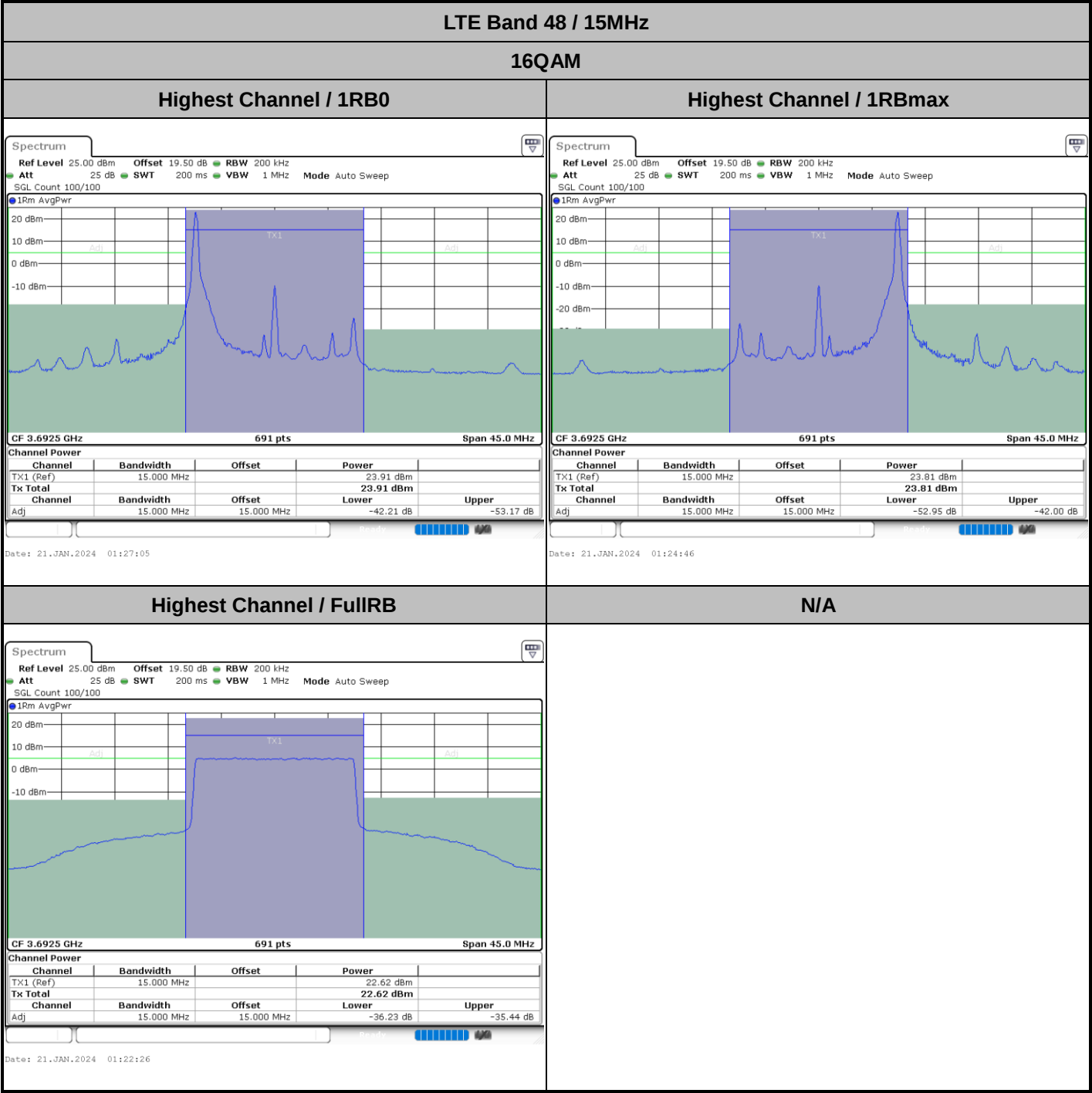


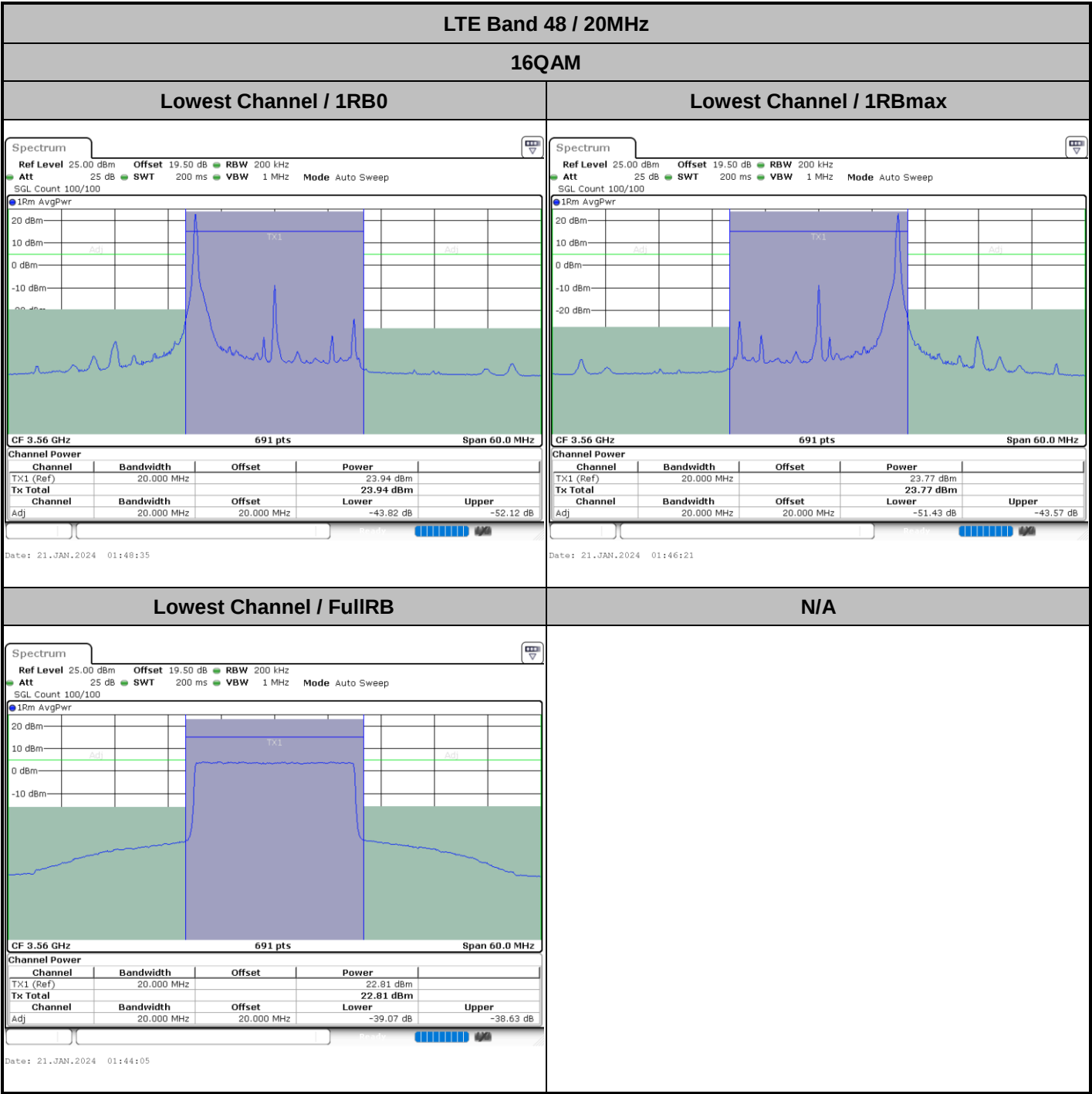
Lowest Channel / FullIRB



N/A





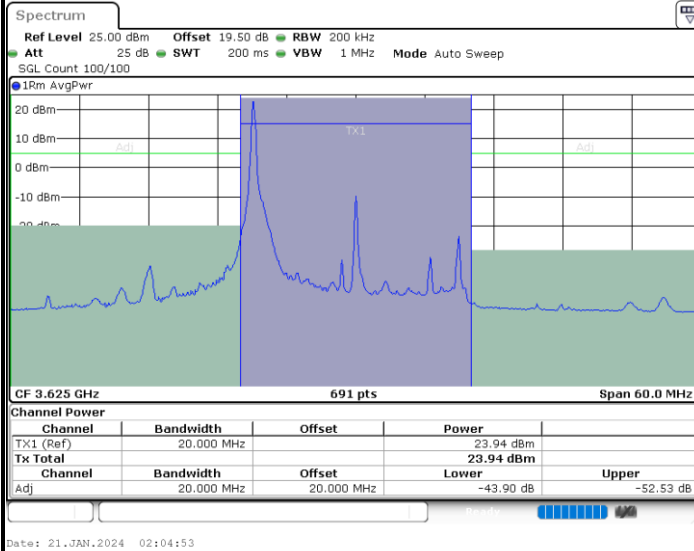




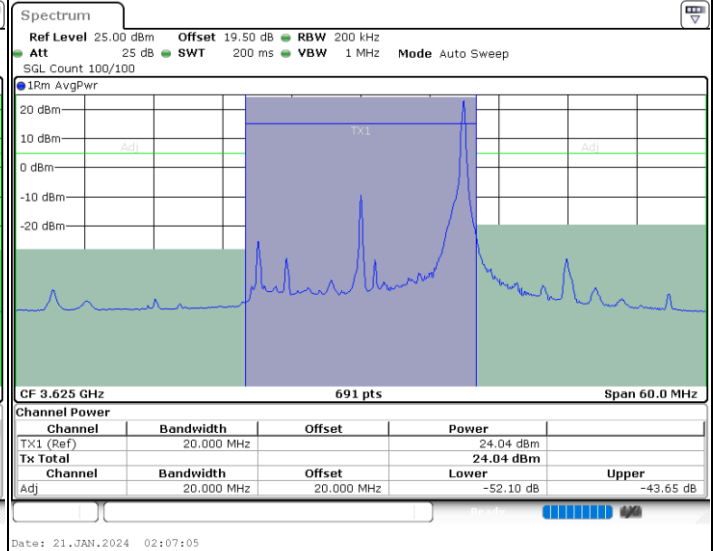
LTE Band 48 / 20MHz

16QAM

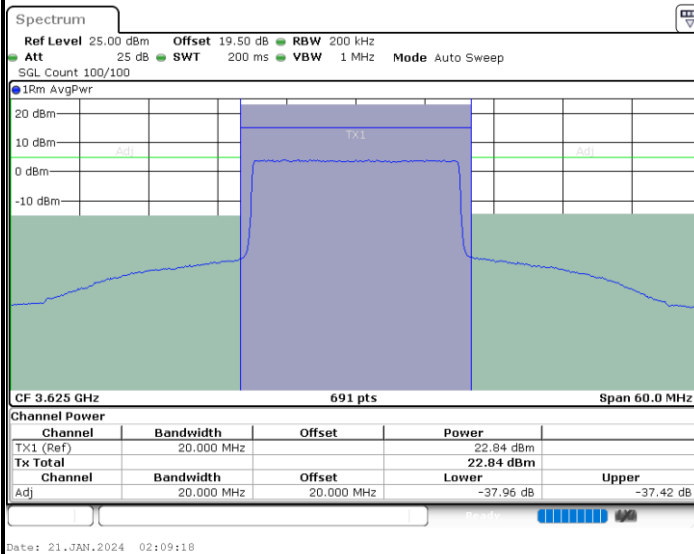
Middle Channel / 1RB0



Middle Channel / 1RBmax



Middle Channel / FullRB



N/A

