



FCC RADIO TEST REPORT

FCC ID : A4RGU0NP
Equipment : Phone
Model Name : GU0NP, GM66V
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, CA, 94043 USA
Standard : FCC 47 CFR Part 2, 96

The product was received on Jan. 06, 2025 and testing was performed from Jan. 07, 2025 to Apr. 22, 2025. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FG4N0920E	01	Initial issue of report	May 20, 2025
FG4N0920E	02	Revise Product Feature of Equipment Under Test and Appendix A This report is an updated version, replacing the report issued on May 20, 2025	Jun. 04, 2025
FG4N0920E	03	Revise Appendix A This report is an updated version, replacing the report issued on Jun. 04, 2025	Jun. 09, 2025
FG4N0920E	04	Revise section 2.1, Appendix B, and Appendix C This report is an updated version, replacing the report issued on Jun. 09, 2025.	Jun. 26, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
3.3	§96.41	Peak-to-Average Ratio	Pass	-
3.4	§96.41	Effective Isotropic Radiated Power	Pass	-
3.5	§2.1049 §96.41	Occupied Bandwidth	Pass	-
3.6	§2.1051 §96.41	Conducted Band Edge Measurement	Pass	-
3.7	§2.1051 §96.41	Conducted Spurious Emission	Pass	-
3.8	§2.1055	Frequency Stability for Temperature & Voltage	Pass	-
4.4	§2.1053 §96.41	Radiated Spurious Emission	Pass	-

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:

1. 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.
2. The GU0NP and GM66V are 100% identical in Hardware / Software to each other, and only have different model names for marketing segmentation. The test sample are all model GU0NP.

Reviewed by: William Chen
Report Producer: Ming Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs GSM/WCDMA/LTE/5G NR, Bluetooth, BLE, BLE channel sounding, Thread, Wi-Fi 802.11be, UWB, NFC, WPC Rx, NTN and GNSS Rx.
Antenna Type <Ant. 1>: ILA Antenna <Ant. 2>: ILA Antenna <Ant. 5>: Loop Antenna <Ant. 6>: IFA Antenna

EUT Information List	
S/N	Performed Test Item
52171FDCG00072	Conducted Measurement EIRP
52181FDCG0007G	Radiated Spurious Emission

Support band and evaluated information	
Supported band	n48
Evaluated and Tested band	n48

Antenna information (worst case from open and close mode)						
Band	Ant1	Ant2	Ant5	Ant6	Main Ant. #	Sub Ant. #
n48	-2.68	-1.54	-3.84	-1.50	6	1

MIMO Antenna information (worst case from open and close mode)						
Band	Ant6+2	Ant1+2	Ant6+5	Ant1+5		
n48	-1.51	-2.07	-2.51	-3.22	Uncorrelated	

Remark:

1. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.
2. For Test Items, Main Ant. means Tx0 and Sub Ant. means Tx1.
3. After preliminary scan for MIMO mode, Antenna 6+2 for n48 is selected as the worst mode to be reported for conducted test.
4. The MIMO n48 composite gain is calculated based on KDB 662911 D01 uncorrelated formula.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Site

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. TH03-HY
Test Engineer	Ching Chen and Luffy Lin
Temperature (°C)	20.3~22.5
Relative Humidity (%)	50.5~58.6

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH12-HY (TAF Code: 3786)
Test Engineer	Jack Cheng, Tim Lee and Wilson Wu
Temperature (°C)	18~26
Relative Humidity (%)	50~70
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786



1.4 Applied Standards

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

- ♦ ANSI C63.26-2015
- ♦ FCC 47 CFR Part 2, 96
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

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, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT (open and close) and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and find worst plane as below.

Plane	Main Antenna	Sub Antenna
n48 (Primary mode)	X Close With Adapter	Y Open With Adapter
n48 (Diversity mode)	Z Open With Adapter	Z Close With Adapter
n48 MIMO	X Close With Adapter	Y Open With Adapter
EN-DC B2+n48	Y Close With Adapter	-

Modulation Type	Modulation	Modulation Type	Modulation
A	DFT-s-OFDM PI/2 BPSK	N/A	N/A
B	DFT-s-OFDM QPSK	F	CP-OFDM QPSK
C	DFT-s-OFDM 16QAM	G	CP-OFDM 16QAM
D	DFT-s-OFDM 64QAM	H	CP-OFDM 64QAM
E	DFT-s-OFDM 256QAM	I	CP-OFDM 256QAM

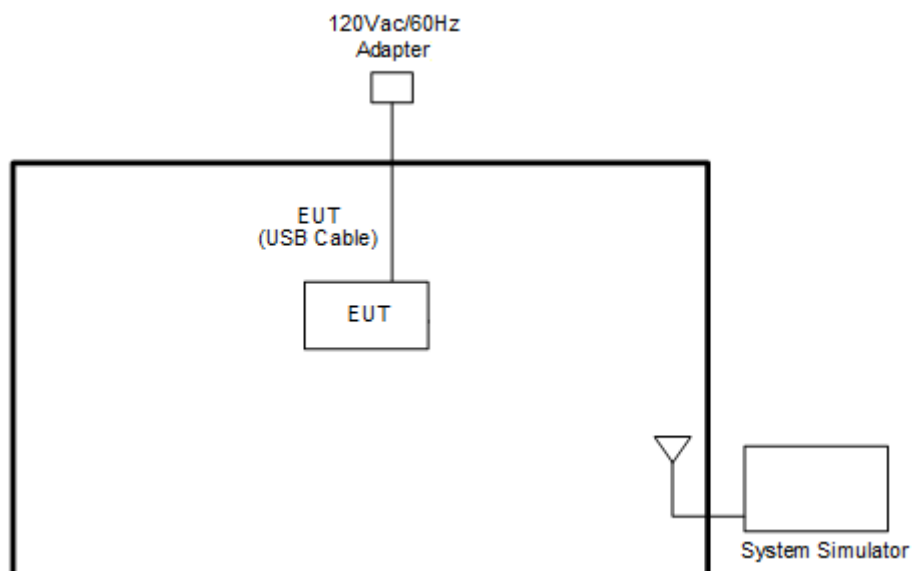
Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B, C, D, E (SISO) F, G, H, I (MIMO)	All	1, Half, Full	L, M, H
EIRP	A, B, C, D, E (SISO) F, G, H, I (MIMO)	All	1, Half, Full	L, M, H
PAR	A, B, C, D, E, F, G, H, I (SISO) F, G, H, I (MIMO)	20 MHz or less	Outer_Full	M
Bandwidth	A, F, G, H, I (SISO) F, G, H, I (MIMO)	All	Outer_Full	M
ACLR, Mask	A, B, C, D, E, F, G, H, I	Minimum BW	Outer_1RB	L, M, H
		All	Outer_Full	
CSE	B (SISO) F (MIMO)	Minimum BW	Inner_1RB	L, M, H
Frequency Stability	A (SISO) F (MIMO)	20 MHz or less	Outer_Full	M
RSE	A or F (SISO, MIMO)	20 MHz or less	Inner_1RB	L, M, H

Remark:

1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
2. The PAR result is stable for each supported bandwidth so only one representative bandwidth among all supported bandwidths is selected for PAR testing.
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. During the RSE preliminary test, the standalone mode and charging modes (Adapter mode and WPC Rx mode) were verified. It is determined that the adapter mode is the worst case for the official test.
5. All the radiated test cases were performed with USB Cable 1.

2.2 Connection Diagram of Test System

<EUT with Adapter>



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	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 4.5 dB and 10dB attenuator.

Example :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.5 + 10 = 14.5 \text{ (dB)}\end{aligned}$$

2.5 Frequency List of Low/Middle/High Channels

5G NR Band 48 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
40	Channel	638000	641666	645332
	Frequency	3570	3624.99	3679.98
30	Channel	637668	641666	645666
	Frequency	3565.02	3624.99	3684.99
20	Channel	637334	641666	646000
	Frequency	3560.01	3624.99	3690
15	Channel	637168	641666	646166
	Frequency	3557.52	3624.99	3692.49
10	Channel	637000	641666	646332
	Frequency	3555	3624.99	3694.98

3 Conducted Test Items

3.1 Measuring Instruments

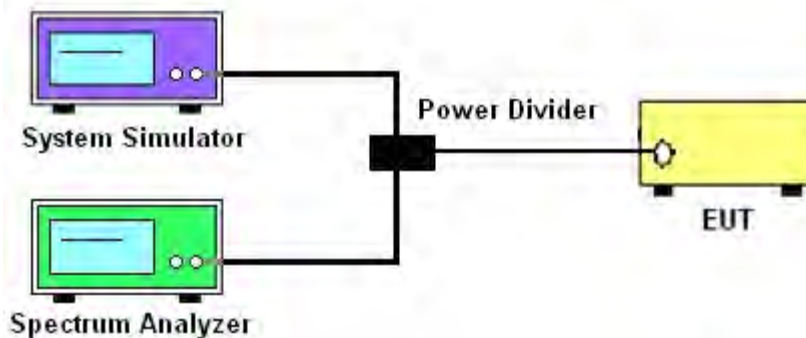
See list of measuring instruments of this test report.

3.1.1 Test Setup

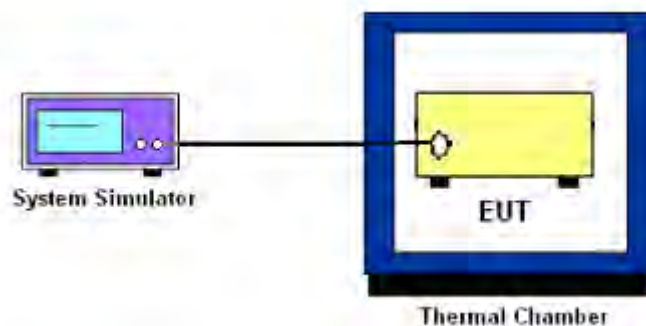
3.1.2 Conducted Output Power



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



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power Measurement

3.2.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

3.2.2 Test Procedures

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



3.3 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

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

3.4 EIRP

3.4.1 Description of the EIRP Measurement

The EIRP of mobile transmitters must not exceed 23 dBm /10 megahertz for LTE Band 48.

The testing follows ANSI C63.26-2015 Section 5.2.5.5.

According to KDB 412172 D01 Power Approach,

EIRP = PT + GT – LC, where

PT = transmitter output power in dBm

GT = gain of the transmitting antenna in dBi

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

Device	Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a

Remark:

- Total channel power is complied with EIRP limit 23dBm/10MHz.
- For MIMO mode, the directional gain calculation is following F)2)d) of KDB 662911 D01 v02r01.

d) *Unequal antenna gains, with equal transmit powers.* For antenna gains given by $G_1, G_2, \dots, G_N$ dBi

(i) If transmit signals are *correlated*, then

Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

(ii) If all transmit signals are *completely uncorrelated*, then

Directional gain = $10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{ANT}]$ dBi

					MIMO Mode Uncorrelated
5G NR	Ant 1	Ant 2	Ant 5	Ant 6	NSS = 2
n48	(dBi)	(dBi)	(dBi)	(dBi)	(dBi)
Ant. 6 + 2	-2.68	-1.54	-3.84	-1.50	-1.51
Ant. 6 + 5	-2.68	-1.54	-3.84	-1.50	-2.51
Ant. 1 + 5	-2.68	-1.54	-3.84	-1.50	-3.22
Ant. 1 + 2	-2.68	-1.54	-3.84	-1.50	-2.07

Directional gain for Ant. 6+2 uncorrelated of MIMO mode derived from formula which is

$$10 \times \log \{ [10^{(-1.50 \text{ dBi} / 10)} + 10^{(-1.54 \text{ dBi} / 10)}] / 2 \}$$

$$= -1.51 \text{ dBi}$$



3.4.2 Test Procedures

The testing follows procedure in Section 5.2 of ANSI C63.26-2015 and KDB 940660 D01 Part 96 CBRS Eqpt v03 Section 3.2(b)(2)

Determine the EIRP by adding the effective antenna gain to the measured average conducted power level.

3.5 Occupied Bandwidth

3.5.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.5.2 Test Procedures

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

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
3. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
4. Set the detection mode to peak, and the trace mode to max hold.
5. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.6 Conducted Band Edge

3.6.1 Description of Conducted Band Edge Measurement

The conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.

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. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. For MIMO mode, add additional MIMO factor $10\log(\text{NTX}=2) = 3.01\text{dB}$ into the spectrum analyzer offset.

For Adjacent Channel Leakage Ratio (ACLR) measurement,

1. The Adjacent Channel Leakage Ratio (ACLR) is the ratio of the average power in the assigned aggregated channel bandwidth to the average power over the equivalent adjacent channel bandwidth.
2. The option ACLR of spectrum analyzer is used and measures the ACLR ratio by setting equivalent channel bandwidth.
3. The measured ACLR ratio shall be at least 30 dB.

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.
10. The test reduction is applied to 1RB case for 10MHz Bandwidth to cover the all operation bandwidths. RBW 500kHz is applied to the 0-1MHz offset from the edge of the frequency block group for 1RB mode in order to represent the worst case condition.
11. For MIMO mode, add additional MIMO factor $10\log(\text{NTX}=2) = 3.01\text{dB}$ into the spectrum analyzer offset.

3.8 Frequency Stability

3.8.1 Description of Frequency Stability Measurement

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block.

3.8.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.8.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

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

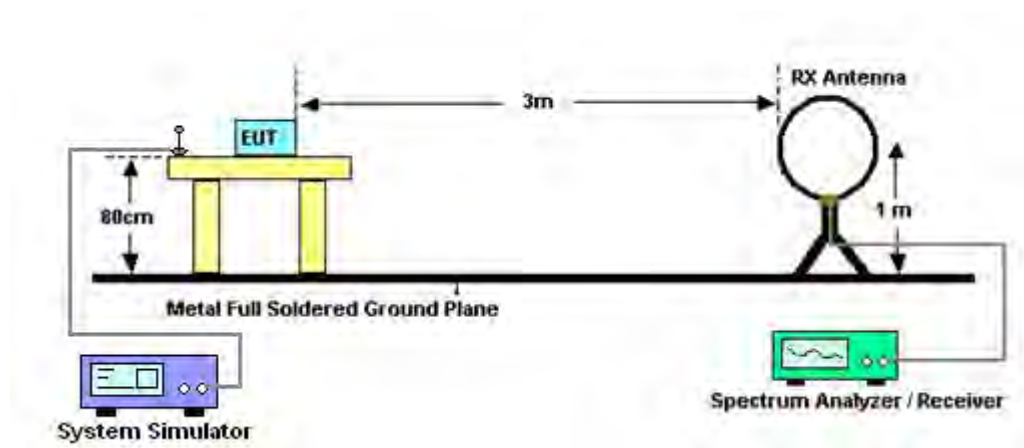
4 Radiated Test Items

4.1 Measuring Instruments

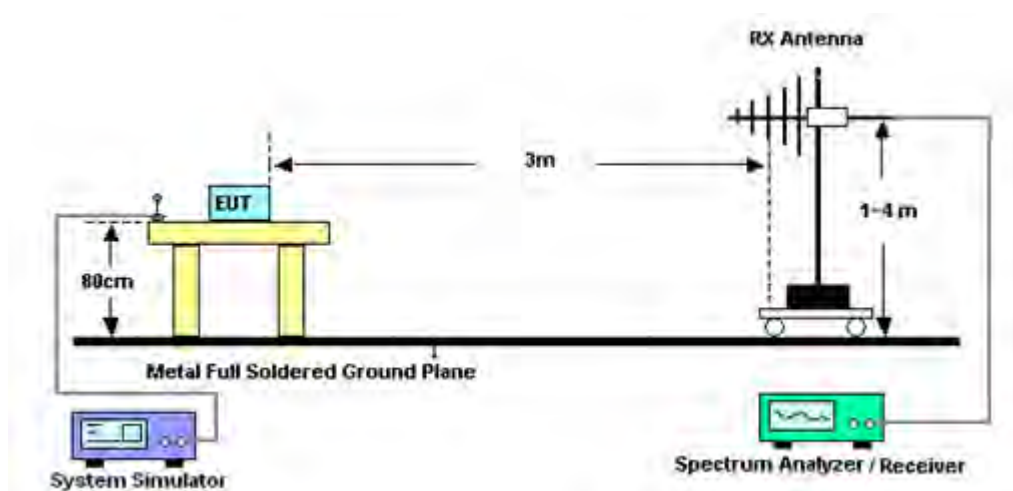
See list of measuring instruments of this test report.

4.2 Test Setup

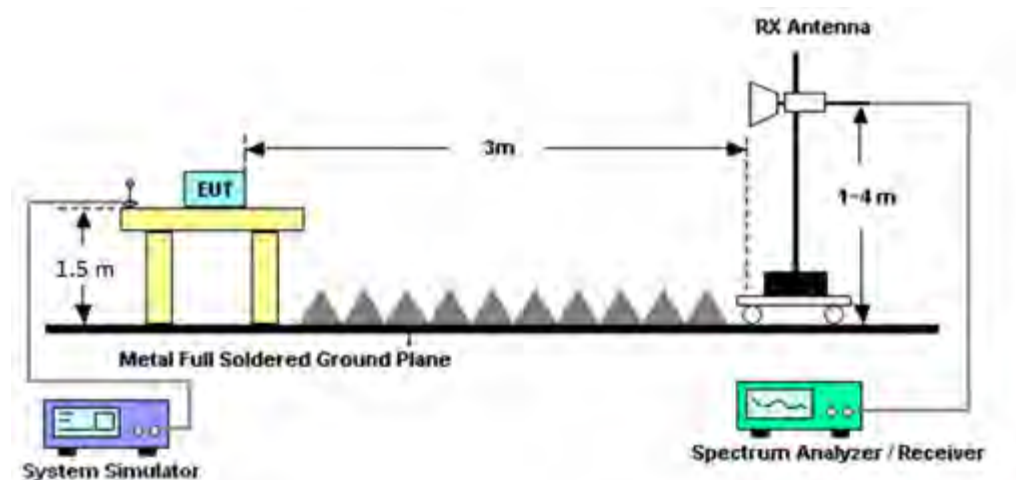
For radiated test below 30MHz



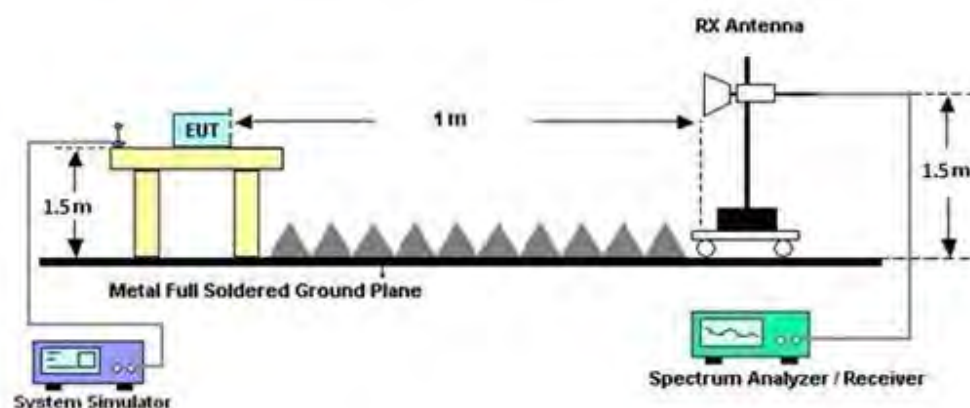
For radiated test from 30MHz to 1GHz



For radiated emissions from 1GHz to 18GHz



For radiated emissions above 18GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

Note:

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.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

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

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter 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. To convert spectrum reading E(dBuV/m) to EIRP(dBm)
$$\text{EIRP(dBm)} = \text{Level (dBuV/m)} + 20\log(d) - 104.77,$$
where d is the distance at which field strength limit is specified in the rules
8. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
9. ERP (dBm) = EIRP (dBm) - 2.15
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
DC Power Supply	GW Instek	GPE-2323	GET910896	1V~20V 0.5A~5A	Nov. 26, 2024	Jan. 07, 2025~ Apr. 22, 2025	Nov. 25, 2025	Conducted (TH03-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101691	10Hz~44GHz	Oct. 02, 2024	Jan. 07, 2025~ Apr. 22, 2025	Oct. 01, 2025	Conducted (TH03-HY)
Temperature Chamber	ESPEC	LHU-113	1012005860	-20°C ~85°C	Dec. 10, 2024	Jan. 07, 2025~ Apr. 22, 2025	Dec. 09, 2025	Conducted (TH03-HY)
Hygrometer	TECPEL	DTM-303B	TP200735	NA	Mar. 21, 2024	Jan. 07, 2025~ Mar. 02, 2025	Mar. 20, 2025	Conducted (TH03-HY)
Hygrometer	TECPEL	DTM-303B	TP200886	NA	Mar. 03, 2025	Mar. 03, 2025~ Apr. 22, 2025	Mar. 02, 2026	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6262148275	FR1	Oct. 20, 2024	Jan. 07, 2025~ Apr. 22, 2025	Oct. 19, 2025	Conducted (TH03-HY)
Power divider	Anritsu	K241C	2143398	9KHz~40GHz	Jun. 13, 2024	Jan. 07, 2025~ Apr. 22, 2025	Jun. 12, 2025	Conducted (TH03-HY)
RF Cable	MVE	MCBL-LL403P.50	E80002C	9KHz~40GHz	Aug. 23, 2024	Jan. 07, 2025~ Apr. 22, 2025	Aug. 22, 2025	Conducted (TH03-HY)
Software 1	Sporton	FCC 5GNR_FSV3044_20231106	N/A	Conducted Test Item	N/A	Jan. 07, 2025~ Apr. 22, 2025	N/A	Conducted (TH03-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 18, 2024	Mar. 12, 2025~ Apr. 19, 2025	Dec. 17, 2025	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	37059 & 01	30MHz~1GHz	Nov. 27, 2024	Mar. 12, 2025~ Apr. 19, 2025	Nov. 26, 2025	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02114	1GHz~18GHz	Jul. 11, 2024	Mar. 12, 2025~ Apr. 19, 2025	Jul. 10, 2025	Radiation (03CH12-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18G-56-01-A70	EC1900269	1GHz-18GHz	Dec. 19, 2024	Mar. 12, 2025~ Apr. 19, 2025	Dec. 18, 2025	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Aug. 09, 2024	Mar. 12, 2025~ Apr. 19, 2025	Aug. 08, 2025	Radiation (03CH12-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz~26.5GHz	Sep. 09, 2024	Mar. 12, 2025~ Apr. 19, 2025	Sep. 08, 2025	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz~40GHz	Jun. 24, 2024	Mar. 12, 2025~ Apr. 19, 2025	Jun. 23, 2025	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz~40GHz	Dec. 02, 2024	Mar. 12, 2025~ Apr. 19, 2025	Dec. 01, 2025	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX12-900-1000-15000-60SS	SN11	1GHz High Pass Filter	Mar. 12, 2025	Mar. 12, 2025~ Apr. 19, 2025	Mar. 11, 2026	Radiation (03CH12-HY)
Notch Filter	Wainwright	WLKS1200-12SS	SN2	1.2GHz Low Pass Filter	Mar. 12, 2025	Mar. 12, 2025~ Apr. 19, 2025	Mar. 11, 2026	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN2	3GHz High Pass Filter	Mar. 12, 2025	Mar. 12, 2025~ Apr. 19, 2025	Mar. 11, 2026	Radiation (03CH12-HY)
Notch Filter	Wainwright	WHKX12-2700-3000-18000-60ST	SN2	6.75GHz High Pass Filter	Mar. 12, 2025	Mar. 12, 2025~ Apr. 19, 2025	Mar. 11, 2026	Radiation (03CH12-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4	9kHz~30MHz	Feb. 20, 2025	Mar. 12, 2025~ Apr. 19, 2025	Feb. 19, 2026	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 19, 2024	Mar. 12, 2025~ Apr. 19, 2025	Dec. 18, 2025	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803955/2	30MHz~40GHz	Nov. 01, 2024	Mar. 12, 2025~ Apr. 19, 2025	Oct. 31, 2025	Radiation (03CH12-HY)
RF Cable	EMCI	EMC101Y-KM-KM-100	240907	30MHz~40GHz	Nov. 14, 2024	Mar. 12, 2025~ Apr. 19, 2025	Nov. 13, 2025	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP210090	N/A	Aug. 29, 2024	Mar. 12, 2025~ Apr. 19, 2025	Aug. 28, 2025	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Mar. 12, 2025~ Apr. 19, 2025	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Mar. 12, 2025~ Apr. 19, 2025	N/A	Radiation (03CH12-HY)
5G Wireless Test Platform	Anritsu	MT8000A	6262134933	FR1	Jun. 27, 2024	Mar. 12, 2025~ Apr. 19, 2025	Jun. 26, 2025	Radiation (03CH12-HY)
Radio Communication Analyze	Anritsu	MT8821C	6262116730	LTE	Jun. 28, 2024	Mar. 12, 2025~ Apr. 19, 2025	Jun. 27, 2025	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Mar. 12, 2025~ Apr. 19, 2025	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Mar. 12, 2025~ Apr. 19, 2025	N/A	Radiation (03CH12-HY)

6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.6 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7 dB
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Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) and ERP/EIRP

NR n48 Maximum Average Power [dBm] (GT - LC = -1.5 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	23.82	23.83	23.74	22.41	0.1742		
10	1	22		23.74	23.79	23.75				
10	12	6		23.80	23.87	23.72				
10	1	0		23.30	23.39	23.25				
10	1	23		23.23	23.30	23.28				
10	24	0		23.29	23.38	23.23				
10	1	1	QPSK	23.89	23.91	23.69				
10	1	22		23.80	23.87	23.74				
10	12	6		23.81	23.85	23.72				
10	1	0		22.89	22.93	22.71				
10	1	23		22.79	22.85	22.72				
10	24	0		22.78	22.85	22.74				
10	1	1	16-QAM	22.95	23.02	22.78	21.52	0.1419		
10	1	1	64-QAM	21.31	21.40	21.21				
10	1	1	256-QAM	19.25	19.37	19.15				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

NR n48 Maximum Average Power [dBm] (GT - LC = -1.5 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	19.85	23.91	23.66	22.43	0.1750		
15	1	36		23.82	23.85	19.67				
15	18	9		23.80	23.86	23.66				
15	1	0		19.78	23.43	23.12				
15	1	37		23.30	23.34	19.67				
15	36	0		19.79	23.35	19.63				
15	1	1	QPSK	19.86	23.93	23.67				
15	1	36		23.81	23.82	19.70				
15	18	9		23.80	23.86	23.66				
15	1	0		19.92	22.89	22.66				
15	1	37		22.78	22.82	19.68				
15	36	0		19.79	22.85	19.67				
15	1	1	16-QAM	18.91	22.99	22.62	21.49	0.1409		
15	1	1	64-QAM	19.07	21.47	21.20				
15	1	1	256-QAM	19.15	19.39	19.07				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



NR n48 Maximum Average Power [dBm] (GT - LC = -1.5 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	19.94	23.97	23.64	22.51	0.1782		
20	1	49		23.87	23.83	19.67				
20	25	12		23.86	23.90	23.60				
20	1	0		19.92	23.47	23.13				
20	1	50		23.40	23.32	19.68				
20	50	0		19.83	23.41	19.60				
20	1	1	QPSK	19.87	24.01	23.60				
20	1	49		23.88	23.83	19.60				
20	25	12		23.83	23.88	23.62				
20	1	0		19.85	23.04	22.65				
20	1	50		22.91	22.85	19.58				
20	50	0		19.83	22.90	19.58				
20	1	1	16-QAM	18.97	22.97	22.44	21.47	0.1403		
20	1	1	64-QAM	18.85	21.41	21.02				
20	1	1	256-QAM	19.39	19.47	19.09				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

NR n48 Maximum Average Power [dBm] (GT - LC = -1.5 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
30	1	1	PI/2 BPSK	12.30	19.97	12.23	22.43	0.1750		
30	1	76		12.29	19.74	12.13				
30	36	18		12.21	23.93	23.72				
30	1	0		12.28	19.95	12.22				
30	1	77		12.30	19.70	12.14				
30	75	0		12.22	19.91	12.16				
30	1	1	QPSK	12.28	19.95	12.32				
30	1	76		12.31	19.71	12.20				
30	36	18		12.21	23.87	23.72				
30	1	0		12.29	19.98	12.30				
30	1	77		12.28	19.71	12.23				
30	75	0		12.25	19.87	12.16				
30	1	1	16-QAM	11.71	20.17	11.72	18.67	0.0736		
30	1	1	64-QAM	11.73	20.01	11.83				
30	1	1	256-QAM	11.78	19.54	11.80				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



NR n48 Maximum Average Power [dBm] (GT - LC = -1.5 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	12.41	19.99	12.19	22.4	0.1738		
40	1	104		12.33	19.76	12.10				
40	50	25		12.30	23.90	12.07				
40	1	0		12.41	19.94	12.21				
40	1	105		12.32	19.73	12.12				
40	100	0		12.34	19.37	12.08				
40	1	1	QPSK	12.32	19.98	12.19				
40	1	104		12.26	19.76	12.08				
40	50	25		12.30	23.90	12.09				
40	1	0		12.34	19.97	12.20				
40	1	105		12.27	19.77	12.09				
40	100	0		12.31	19.38	12.10				
40	1	1	16-QAM	11.88	19.83	11.73	18.43	0.0697		
40	1	1	64-QAM	11.89	19.93	11.66				
40	1	1	256-QAM	11.85	19.54	11.68				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



Part96 NR n48 Maximum Average Power [dBm], DG = -1.51 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	19.33	19.24	19.28	19.08	19.13	19.12	22.22	22.20	22.21	20.74	0.1186
10	1	22		19.28	19.22	19.32	19.11	19.02	19.08	22.21	22.13	22.21		
10	12	6		19.30	19.30	19.38	18.97	19.14	19.09	22.15	22.23	22.25		
10	1	0		17.80	17.75	17.89	17.44	17.52	17.59	20.63	20.65	20.75		
10	1	23		17.72	17.82	17.85	17.50	17.51	17.64	20.62	20.68	20.76		
10	24	0		17.83	17.79	17.86	17.54	17.67	17.61	20.70	20.74	20.75		
10	1	1	16-QAM	18.94	18.84	18.88	18.65	18.69	18.65	21.81	21.78	21.78	20.30	0.1072
10	1	1	64-QAM	17.17	17.38	17.35	17.10	17.20	17.03	20.15	20.30	20.20		
10	1	1	256-QAM	14.21	14.27	14.24	13.98	14.27	14.07	17.11	17.28	17.17		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part96 NR n48 Maximum Average Power [dBm], DG = -1.51 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
15	1	1	QPSK	14.85	19.34	19.30	14.42	19.10	19.01	17.65	22.23	22.17	20.73	0.1183
15	1	36		19.39	19.23	14.78	19.07	18.95	14.47	22.24	22.10	17.64		
15	19	9		19.27	19.33	19.31	19.11	19.12	19.03	22.20	22.24	22.18		
15	1	0		14.91	17.82	17.86	14.30	17.55	17.46	17.63	20.70	20.67		
15	1	37		17.80	17.75	14.77	17.55	17.45	14.39	20.69	20.61	17.59		
15	38	0		14.78	17.79	14.74	14.45	17.55	14.41	17.63	20.68	17.59		
15	1	1	16-QAM	14.93	18.98	18.64	14.64	18.79	18.48	17.80	21.90	21.57	20.39	0.1094
15	1	1	64-QAM	14.92	17.39	17.34	14.58	17.19	17.28	17.76	20.30	20.32		
15	1	1	256-QAM	14.30	14.45	14.19	14.08	14.14	14.08	17.20	17.31	17.15		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



Part96 NR n48 Maximum Average Power [dBm], DG = -1.51 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	14.88	19.36	19.29	14.56	19.09	19.00	17.73	22.24	22.16	20.79	0.1199
20	1	49		19.38	19.25	14.76	19.01	18.88	14.30	22.21	22.08	17.55		
20	25	12		19.37	19.33	19.23	19.20	19.11	18.99	22.30	22.23	22.12		
20	1	0		14.94	17.76	17.60	14.53	17.66	17.39	17.75	20.72	20.51		
20	1	50		17.90	17.66	14.69	17.68	17.50	14.43	20.80	20.59	17.57		
20	51	0		14.83	17.80	14.66	14.60	17.60	14.39	17.73	20.71	17.54		
20	1	1	16-QAM	14.99	18.90	18.84	14.38	18.62	18.46	17.71	21.77	21.66	20.26	0.1062
20	1	1	64-QAM	15.11	17.04	17.18	14.57	16.96	16.99	17.86	20.01	20.10		
20	1	1	256-QAM	14.40	14.33	14.24	14.09	14.27	14.05	17.26	17.31	17.16		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part96 NR n48 Maximum Average Power [dBm], DG = -1.51 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	8.20	16.81	8.35	7.95	16.71	8.10	11.09	19.77	11.24	20.73	0.1183
30	1	76		8.18	16.55	8.23	7.91	16.45	8.02	11.06	19.51	11.14		
30	39	19		8.26	19.29	8.24	7.98	19.16	8.08	11.13	22.24	11.17		
30	1	0		8.22	16.95	8.33	7.95	16.70	8.08	11.10	19.84	11.22		
30	1	77		8.20	16.82	8.17	7.95	16.59	7.99	11.09	19.72	11.09		
30	78	0		8.28	16.82	8.25	8.01	16.66	8.04	11.16	19.75	11.16		
30	1	1	16-QAM	8.22	16.89	8.24	8.11	16.63	8.05	11.18	19.77	11.16	18.31	0.0678
30	1	1	64-QAM	8.20	16.72	8.06	8.12	16.89	8.27	11.17	19.82	11.18		
30	1	1	256-QAM	8.12	14.30	8.22	8.15	14.07	8.20	11.15	17.20	11.22		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part96 NR n48 Maximum Average Power [dBm], DG = -1.51 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	8.44	16.92	8.16	7.97	16.50	7.90	11.22	19.73	11.04	20.71	0.1178
40	1	104		8.36	16.69	8.17	7.78	16.35	7.84	11.09	19.53	11.02		
40	53	26		8.32	19.32	8.20	8.11	19.09	7.90	11.23	22.22	11.06		
40	1	0		8.38	16.92	8.16	7.97	16.58	7.87	11.19	19.76	11.03		
40	1	105		8.41	16.71	8.08	7.87	16.41	7.89	11.16	19.57	11.00		
40	106	0		8.32	16.34	8.24	8.14	16.08	7.87	11.24	19.22	11.07		
40	1	1	16-QAM	8.51	16.87	8.18	8.22	16.63	7.89	11.38	19.76	11.05	18.25	0.0668
40	1	1	64-QAM	8.35	16.81	8.07	8.03	16.56	7.83	11.20	19.70	10.96		
40	1	1	256-QAM	8.29	14.27	8.35	8.13	14.30	8.03	11.22	17.30	11.20		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



Part96 NR n48 Maximum Average Power [dBm], DG = -3.22 dBi														
BW	RB	RB	Mod	Antenna 1			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	18.42	18.41	18.47	19.20	19.33	19.17	21.84	21.90	21.84	18.73	0.0746
10	1	22		18.46	18.32	18.55	19.26	19.24	19.19	21.89	21.81	21.89		
10	12	6		18.56	18.36	18.46	19.28	19.32	19.19	21.95	21.88	21.85		
10	1	0		16.99	16.90	16.97	17.82	17.89	17.65	20.44	20.43	20.33		
10	1	23		16.82	16.84	17.03	17.89	17.85	17.64	20.40	20.38	20.36		
10	24	0		17.05	16.87	16.93	17.83	17.80	17.71	20.47	20.37	20.35		
10	1	1	16-QAM	18.00	18.08	18.35	18.71	18.77	18.47	21.38	21.45	21.42	18.23	0.0665
10	1	1	64-QAM	16.62	16.38	16.39	17.53	17.33	17.17	20.11	19.89	19.81		
10	1	1	256-QAM	13.16	13.36	13.22	14.57	14.40	14.20	16.93	16.92	16.75		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part96 NR n48 Maximum Average Power [dBm], DG = -3.22 dBi														
BW	RB	RB	Mod	Antenna 1			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
15	1	1	QPSK	13.95	18.37	18.43	14.71	19.37	19.10	17.36	21.91	21.79	18.78	0.0755
15	1	36		18.38	18.29	13.94	19.38	19.13	14.70	21.92	21.74	17.35		
15	19	9		18.56	18.27	18.41	19.38	19.34	19.23	22.00	21.85	21.85		
15	1	0		13.96	16.85	16.77	14.79	17.90	17.55	17.41	20.42	20.19		
15	1	37		16.94	16.68	13.85	17.87	17.75	14.62	20.44	20.26	17.26		
15	38	0		14.01	16.87	13.86	14.82	17.81	14.62	17.44	20.38	17.27		
15	1	1	16-QAM	14.05	17.72	17.85	14.63	18.61	18.66	17.36	21.20	21.28	18.06	0.0640
15	1	1	64-QAM	14.05	16.20	16.46	14.77	17.52	16.87	17.44	19.92	19.68		
15	1	1	256-QAM	13.41	13.11	13.50	14.21	14.19	14.27	16.84	16.69	16.91		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



Part96 NR n48 Maximum Average Power [dBm], DG = -3.22 dBi														
BW	RB	RB	Mod	Antenna 1			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	14.00	18.43	18.32	14.65	19.35	19.07	17.35	21.92	21.72	18.87	0.0771
20	1	49		18.48	18.23	13.90	19.29	19.15	14.50	21.91	21.72	17.22		
20	25	12		18.63	18.39	18.31	19.49	19.33	19.13	22.09	21.90	21.75		
20	1	0		14.04	16.95	16.70	14.57	17.87	17.51	17.32	20.44	20.13		
20	1	50		16.98	16.74	13.88	17.86	17.61	14.48	20.45	20.21	17.20		
20	51	0		14.02	16.85	13.79	14.94	17.76	14.55	17.51	20.34	17.20		
20	1	1	16-QAM	14.29	18.04	17.75	14.73	18.96	18.50	17.53	21.53	21.15	18.31	0.0678
20	1	1	64-QAM	14.12	16.53	16.19	15.02	17.28	17.21	17.60	19.93	19.74		
20	1	1	256-QAM	13.59	13.60	13.47	14.28	14.32	13.88	16.96	16.99	16.69		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part96 NR n48 Maximum Average Power [dBm], DG = -3.22 dBi														
BW	RB	RB	Mod	Antenna 1			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	7.42	16.04	7.47	8.27	16.88	8.20	10.88	19.49	10.86	18.71	0.0743
30	1	76		7.29	15.74	7.48	8.20	16.74	8.28	10.78	19.28	10.91		
30	39	19		7.39	18.41	7.32	8.27	19.38	8.16	10.86	21.93	10.77		
30	1	0		7.54	16.08	7.46	8.23	16.92	8.23	10.91	19.53	10.87		
30	1	77		7.35	15.73	7.47	8.26	16.72	8.22	10.84	19.26	10.87		
30	78	0		7.39	15.91	7.24	8.28	16.81	8.18	10.87	19.39	10.75		
30	1	1	16-QAM	7.56	15.88	7.33	8.30	16.96	8.21	10.96	19.46	10.80	16.34	0.0431
30	1	1	64-QAM	7.31	16.23	7.53	8.54	16.85	8.00	10.98	19.56	10.78		
30	1	1	256-QAM	7.45	13.47	7.38	8.42	14.42	8.35	10.97	16.98	10.90		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part96 NR n48 Maximum Average Power [dBm], DG = -3.22 dBi														
BW	RB	RB	Mod	Antenna 1			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	7.61	16.10	7.32	8.34	16.82	8.16	11.00	19.49	10.77	18.70	0.0741
40	1	104		7.46	15.84	7.37	8.17	16.68	8.12	10.84	19.29	10.77		
40	53	26		7.52	18.43	7.21	8.40	19.34	8.05	10.99	21.92	10.66		
40	1	0		7.68	16.14	7.34	8.33	16.88	8.13	11.03	19.54	10.76		
40	1	105		7.46	15.83	7.31	8.20	16.70	8.22	10.86	19.30	10.80		
40	106	0		7.55	15.42	7.27	8.37	16.28	8.03	10.99	18.88	10.68		
40	1	1	16-QAM	7.57	16.21	7.26	8.33	17.08	8.20	10.98	19.68	10.77	16.46	0.0443
40	1	1	64-QAM	7.63	16.00	7.62	8.09	16.98	8.21	10.88	19.53	10.94		
40	1	1	256-QAM	7.61	13.75	7.23	8.36	14.39	8.42	11.01	17.09	10.88		
Limit	EIRP < 23dBm/10MHz												Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



Part96 NR n48 Maximum Average Power [dBm], DG = -2.51 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	19.34	19.28	19.24	19.03	19.25	18.98	22.20	22.28	22.12	19.77	0.0948
10	1	22		19.22	19.29	19.26	19.07	19.06	19.02	22.16	22.19	22.15		
10	12	6		19.33	19.30	19.33	19.13	19.16	18.99	22.24	22.24	22.17		
10	1	0		17.73	17.77	17.88	17.59	17.68	17.49	20.67	20.74	20.70		
10	1	23		17.60	17.75	17.88	17.55	17.54	17.53	20.59	20.66	20.72		
10	24	0		17.80	17.79	17.84	17.58	17.65	17.55	20.70	20.73	20.71		
10	1	1	16-QAM	18.92	18.95	18.83	18.49	18.69	18.41	21.72	21.83	21.64	19.32	0.0855
10	1	1	64-QAM	17.23	17.26	17.27	17.00	17.20	17.08	20.13	20.24	20.19		
10	1	1	256-QAM	14.16	13.90	14.37	14.04	14.45	14.05	17.11	17.19	17.22		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part96 NR n48 Maximum Average Power [dBm], DG = -2.51 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
15	1	1	QPSK	14.79	19.34	19.37	14.48	19.07	18.99	17.65	22.22	22.19	19.71	0.0935
15	1	36		19.23	19.31	14.64	19.17	18.99	14.47	22.21	22.16	17.57		
15	19	9		19.23	19.27	19.26	19.07	19.10	18.97	22.16	22.20	22.13		
15	1	0		14.80	17.86	17.71	14.43	17.67	17.41	17.63	20.78	20.57		
15	1	37		17.83	17.71	14.69	17.63	17.53	14.51	20.74	20.63	17.61		
15	38	0		14.74	17.77	14.70	14.59	17.51	14.46	17.68	20.65	17.59		
15	1	1	16-QAM	15.08	18.85	18.71	14.49	18.73	18.35	17.81	21.80	21.54	19.29	0.0849
15	1	1	64-QAM	14.63	17.38	17.20	14.69	17.43	17.05	17.67	20.42	20.14		
15	1	1	256-QAM	14.36	14.31	14.20	13.92	14.08	13.95	17.16	17.21	17.09		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



Part96 NR n48 Maximum Average Power [dBm], DG = -2.51 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	14.83	19.28	19.13	14.59	19.21	18.80	17.72	22.26	21.98	19.78	0.0951
20	1	49		19.33	19.22	14.74	19.18	18.94	14.32	22.27	22.09	17.55		
20	25	12		19.33	19.27	19.20	19.22	19.08	18.89	22.29	22.19	22.06		
20	1	0		14.75	17.70	17.59	14.56	17.58	17.34	17.67	20.65	20.48		
20	1	50		17.89	17.68	14.80	17.69	17.54	14.38	20.80	20.62	17.61		
20	51	0		14.76	17.81	14.63	14.64	17.61	14.34	17.71	20.72	17.50		
20	1	1	16-QAM	14.77	18.80	18.81	14.66	18.91	18.37	17.73	21.87	21.61	19.36	0.0863
20	1	1	64-QAM	14.59	17.22	17.15	14.79	17.25	16.97	17.70	20.25	20.07		
20	1	1	256-QAM	14.39	14.19	14.37	14.28	14.08	13.78	17.35	17.15	17.10		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part96 NR n48 Maximum Average Power [dBm], DG = -2.51 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	8.22	16.96	8.28	8.05	16.47	8.05	11.15	19.73	11.18	19.66	0.0925
30	1	76		8.19	16.73	8.26	7.92	16.46	7.83	11.07	19.61	11.06		
30	39	19		8.15	19.29	8.22	8.07	19.03	7.93	11.12	22.17	11.09		
30	1	0		8.28	16.88	8.39	7.89	16.57	8.04	11.10	19.74	11.23		
30	1	77		8.19	16.69	8.17	7.85	16.35	7.85	11.03	19.53	11.02		
30	78	0		8.19	16.71	8.20	8.01	16.60	7.93	11.11	19.67	11.08		
30	1	1	16-QAM	8.34	16.93	8.47	7.88	16.38	8.03	11.13	19.67	11.27	17.31	0.0538
30	1	1	64-QAM	8.03	16.97	8.23	8.09	16.65	8.10	11.07	19.82	11.18		
30	1	1	256-QAM	8.30	14.23	8.55	7.89	13.77	7.96	11.11	17.02	11.28		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part96 NR n48 Maximum Average Power [dBm], DG = -2.51 dBi														
BW	RB	RB	Mod	Antenna 6			Antenna 5			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	8.34	16.86	8.14	7.96	16.64	7.86	11.16	19.76	11.01	19.71	0.0935
40	1	104		8.31	16.57	8.17	7.78	16.45	7.82	11.06	19.52	11.01		
40	53	26		8.36	19.29	8.17	8.11	19.13	7.80	11.25	22.22	11.00		
40	1	0		8.46	16.94	8.20	7.95	16.62	7.85	11.22	19.79	11.04		
40	1	105		8.39	16.78	8.18	7.84	16.46	7.81	11.13	19.63	11.01		
40	106	0		8.33	16.25	8.14	8.09	16.02	7.84	11.22	19.15	11.00		
40	1	1	16-QAM	8.55	17.19	8.39	8.03	16.75	8.04	11.31	19.99	11.23	17.48	0.0560
40	1	1	64-QAM	8.19	16.77	8.13	8.11	16.67	7.88	11.16	19.73	11.02		
40	1	1	256-QAM	8.50	14.25	8.21	8.08	14.17	8.04	11.31	17.22	11.14		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



Part96 NR n48 Maximum Average Power [dBm], DG = -2.07 dBi														
BW	RB	RB	Mod	Antenna 1			Antenna 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	18.56	18.42	18.50	19.05	19.19	19.01	21.82	21.83	21.77	19.84	0.0964
10	1	22		18.58	18.33	18.52	19.04	19.10	18.97	21.83	21.74	21.76		
10	12	6		18.53	18.44	18.50	19.14	19.32	19.06	21.86	21.91	21.80		
10	1	0		16.96	16.91	16.78	17.51	17.68	17.55	20.25	20.32	20.19		
10	1	23		16.98	16.92	16.96	17.58	17.61	17.40	20.30	20.29	20.20		
10	24	0		17.01	16.93	16.99	17.65	17.69	17.50	20.35	20.34	20.26		
10	1	1	16-QAM	18.18	18.02	18.08	18.42	18.75	18.48	21.31	21.41	21.29	19.34	0.0859
10	1	1	64-QAM	16.68	16.17	16.19	17.11	17.46	16.96	19.91	19.87	19.60		
10	1	1	256-QAM	13.74	13.32	13.42	14.16	14.21	14.06	16.97	16.80	16.76		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part96 NR n48 Maximum Average Power [dBm], DG = -2.07 dBi														
BW	RB	RB	Mod	Antenna 1			Antenna 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
15	1	1	QPSK	13.91	18.54	18.37	14.43	19.10	18.92	17.19	21.84	21.66	19.77	0.0948
15	1	36		18.44	18.30	18.48	19.05	18.98	18.95	21.77	21.66	21.73		
15	19	9		18.51	18.38	18.34	19.08	19.10	18.96	21.81	21.77	21.67		
15	1	0		13.89	17.03	16.76	14.50	17.57	17.45	17.22	20.32	20.13		
15	1	37		17.02	16.86	13.91	17.41	17.46	14.33	20.23	20.18	17.14		
15	38	0		13.93	16.85	13.78	14.53	17.54	14.44	17.25	20.22	17.13		
15	1	1	16-QAM	14.01	17.99	18.02	14.46	18.59	18.69	17.25	21.31	21.38	19.31	0.0853
15	1	1	64-QAM	14.12	16.37	16.35	14.58	17.16	17.09	17.37	19.79	19.75		
15	1	1	256-QAM	13.48	13.42	13.26	14.06	14.20	14.03	16.79	16.84	16.67		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



Part96 NR n48 Maximum Average Power [dBm], DG = -2.07 dBi														
BW	RB	RB	Mod	Antenna 1			Antenna 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	14.08	18.59	18.16	14.67	19.07	18.90	17.40	21.85	21.56	19.81	0.0957
20	1	49		18.53	18.31	13.83	19.19	18.99	14.35	21.88	21.67	17.11		
20	25	12		18.49	18.40	18.30	19.20	19.12	18.93	21.87	21.79	21.64		
20	1	0		14.08	16.91	16.68	14.70	17.63	17.31	17.41	20.30	20.02		
20	1	50		16.98	16.90	13.85	17.66	17.40	14.41	20.34	20.17	17.15		
20	51	0		14.00	16.95	13.80	14.64	17.66	14.39	17.34	20.33	17.12		
20	1	1	16-QAM	14.08	18.07	17.49	14.37	18.54	18.24	17.24	21.32	20.89	19.25	0.0841
20	1	1	64-QAM	13.94	16.41	16.18	14.96	17.36	17.00	17.49	19.92	19.62		
20	1	1	256-QAM	13.51	13.53	13.30	14.19	13.97	14.00	16.87	16.77	16.67		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part96 NR n48 Maximum Average Power [dBm], DG = -2.07 dBi														
BW	RB	RB	Mod	Antenna 1			Antenna 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	7.34	16.12	7.40	7.87	16.59	8.15	10.62	19.37	10.80	19.70	0.0933
30	1	76		7.20	15.70	7.35	7.94	16.32	7.91	10.60	19.03	10.65		
30	39	19		7.32	18.36	7.28	7.98	19.13	8.00	10.67	21.77	10.67		
30	1	0		7.36	15.99	7.52	7.85	16.60	7.99	10.62	19.32	10.77		
30	1	77		7.20	15.72	7.46	7.91	16.44	7.86	10.58	19.11	10.67		
30	78	0		7.34	15.87	7.33	7.99	16.58	7.98	10.69	19.25	10.68		
30	1	1	16-QAM	7.50	16.10	7.54	8.02	16.60	7.97	10.78	19.37	10.77	17.30	0.0537
30	1	1	64-QAM	7.29	16.05	7.40	7.75	16.57	8.19	10.54	19.33	10.82		
30	1	1	256-QAM	7.34	13.72	7.34	7.76	14.22	8.23	10.57	16.99	10.82		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part96 NR n48 Maximum Average Power [dBm], DG = -2.07 dBi														
BW	RB	RB	Mod	Antenna 1			Antenna 2			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	7.55	16.03	7.37	8.14	16.52	7.76	10.87	19.29	10.58	19.65	0.0923
40	1	104		7.39	15.76	7.37	7.87	16.41	7.86	10.65	19.11	10.63		
40	53	26		7.42	18.33	7.22	8.12	19.05	7.86	10.79	21.72	10.56		
40	1	0		7.55	16.00	7.34	8.03	16.54	7.85	10.81	19.29	10.61		
40	1	105		7.32	15.71	7.36	7.83	16.40	7.83	10.59	19.08	10.61		
40	106	0		7.41	15.35	7.26	8.06	16.02	7.79	10.76	18.71	10.54		
40	1	1	16-QAM	7.56	16.11	7.11	8.09	16.73	7.88	10.84	19.44	10.52	17.37	0.0546
40	1	1	64-QAM	7.65	15.89	7.11	8.03	16.78	7.89	10.85	19.37	10.53		
40	1	1	256-QAM	7.51	13.63	7.28	8.14	13.90	7.78	10.85	16.78	10.55		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

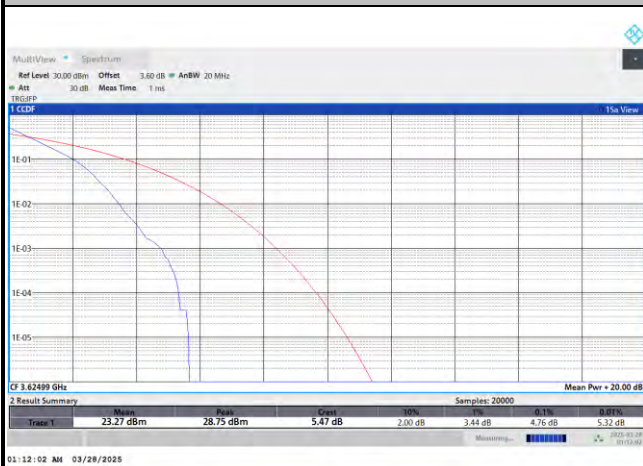
**FR1 n48****<SISO Mode>****Peak-to-Average Ratio**

Mode	FR1 n48 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.76	5.74	6.40	6.60	PASS
Mode	FR1 n48 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.32				PASS

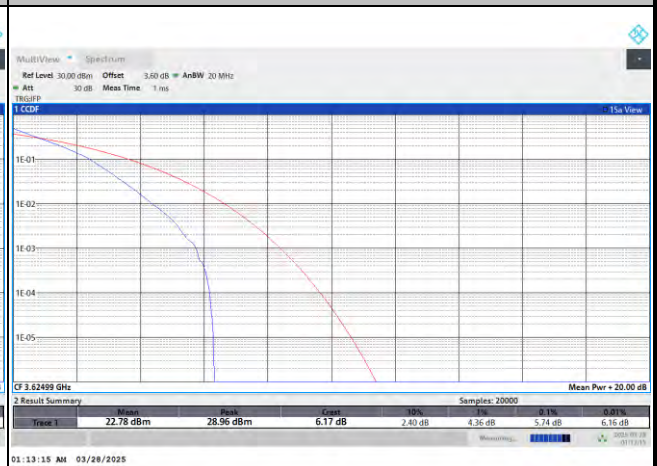


FR1 n48 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

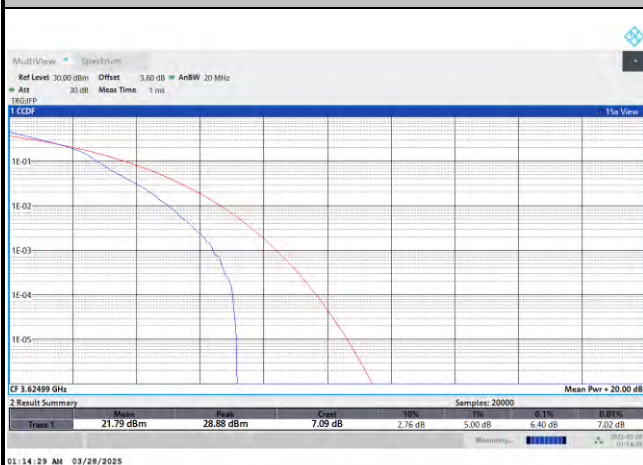
PI/2 BPSK



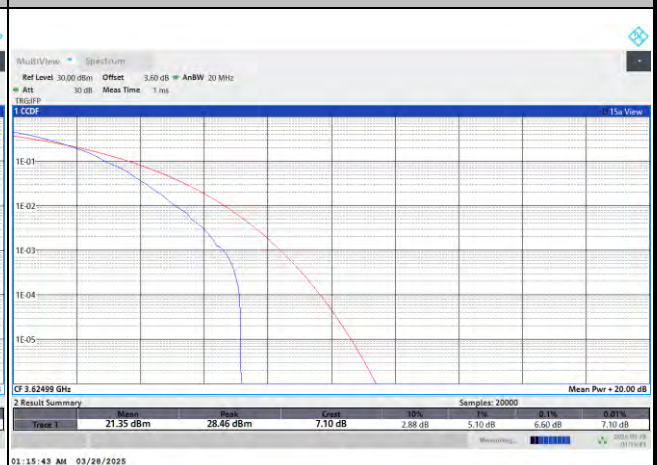
QPSK



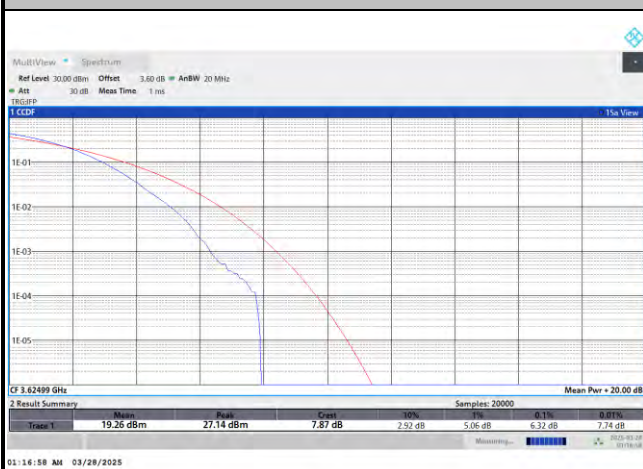
16QAM



64QAM



256QAM



26dB Bandwidth

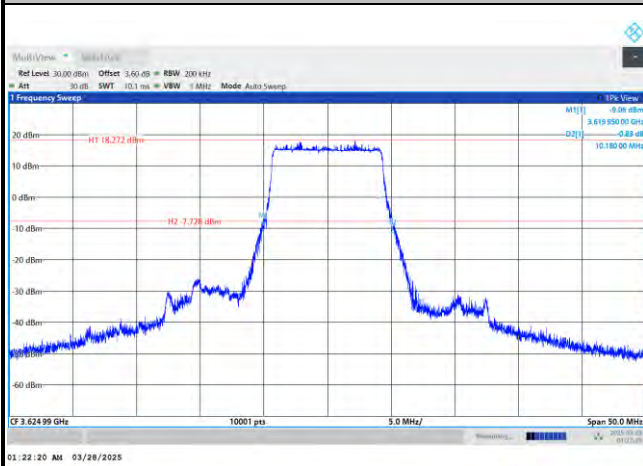
Mode	FR1 n48 : 26dB BW(MHz) / DFT-S OFDM							
BW	10MHz	15MHz	20MHz	30MHz	40MHz	50MHz	60MHz	70MHz
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK
Middle CH	10.18	14.61	20.11	30.08	38.92	-	-	-
BW	80MHz	90MHz	100MHz					
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK					
Middle CH	-	-	-					

Mode	FR1 n48 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		30MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	10.34	10.44	15.65	15.73	20.95	20.57	31.32	31.07
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	10.53	10.14	15.68	15.91	20.53	20.48	31.24	31.09
BW	40MHz		50MHz		60MHz		70MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	42.36	42.88	-	-	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	42.93	43.23	-	-	-	-	-	-
BW	80MHz		90MHz		100MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	-	-	-	-	-	-		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	-	-	-	-	-	-		



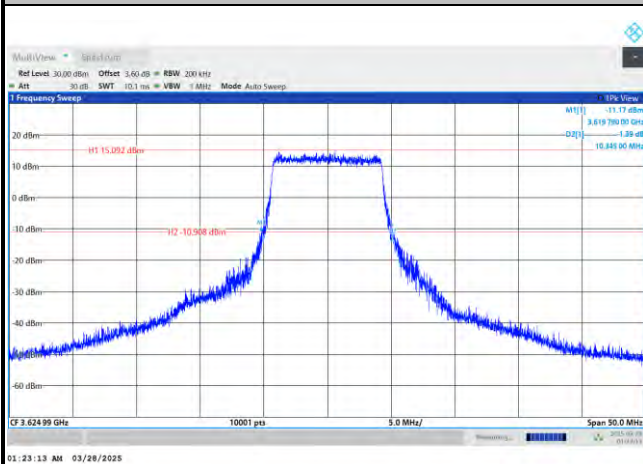
FR1 n48 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

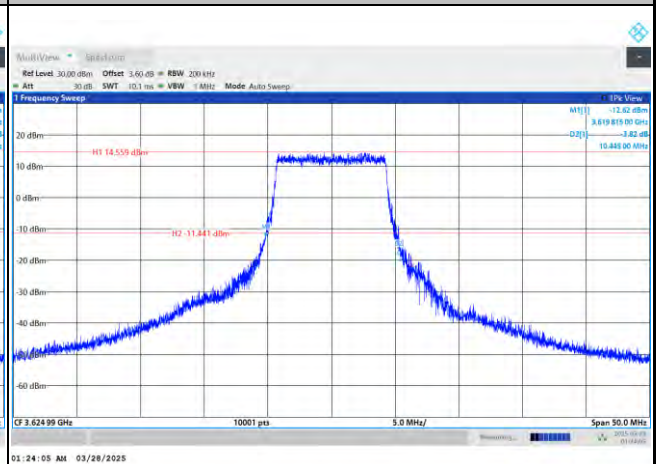


FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

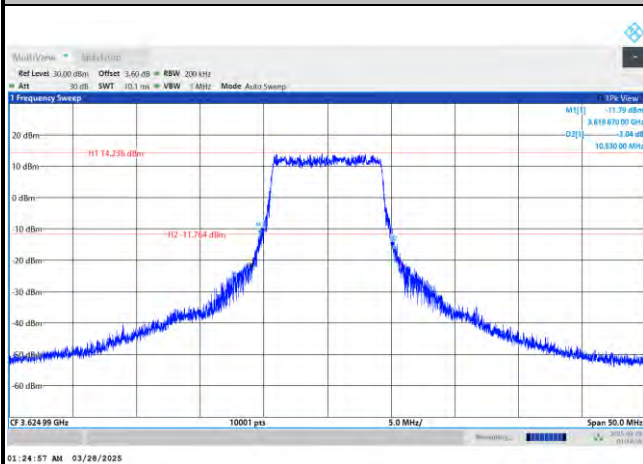
QPSK



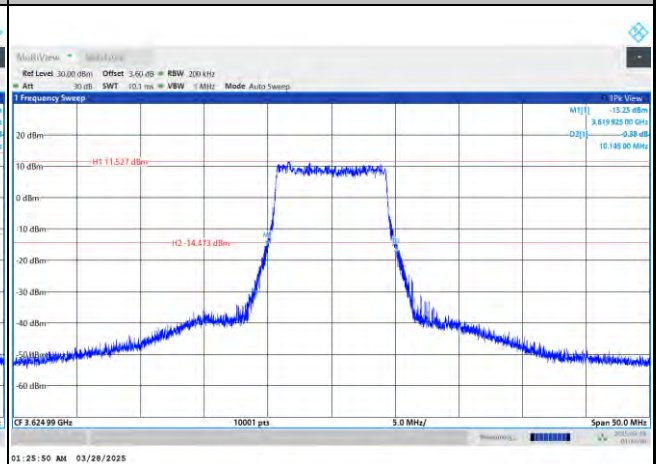
16QAM



64QAM



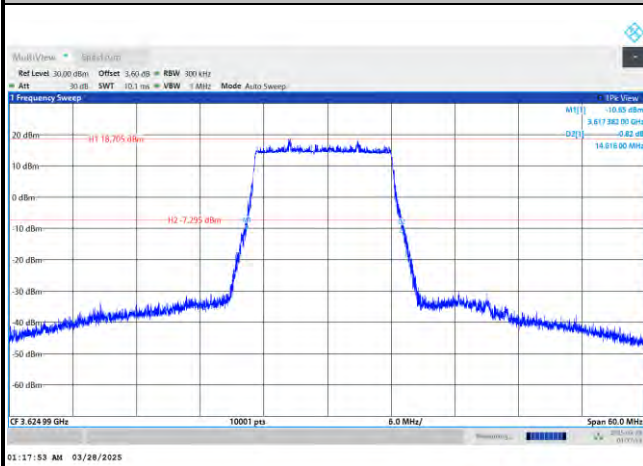
256QAM





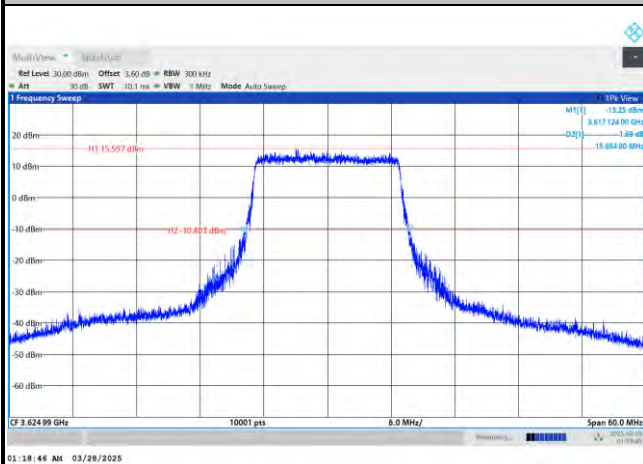
FR1 n48 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

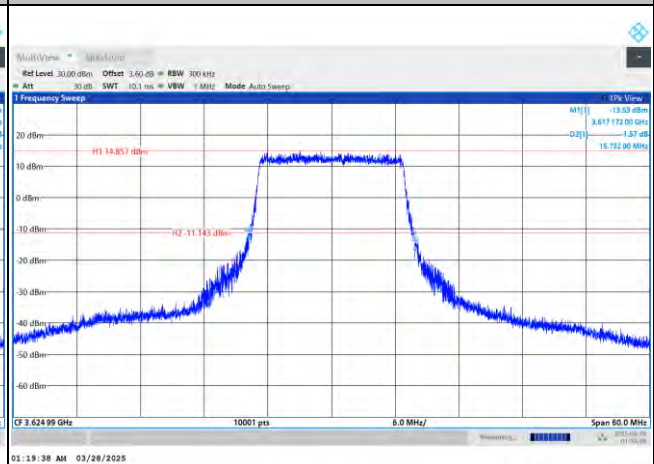


FR1 n48 / 15MHz / CP OFDM / Middle Channel / Full RB

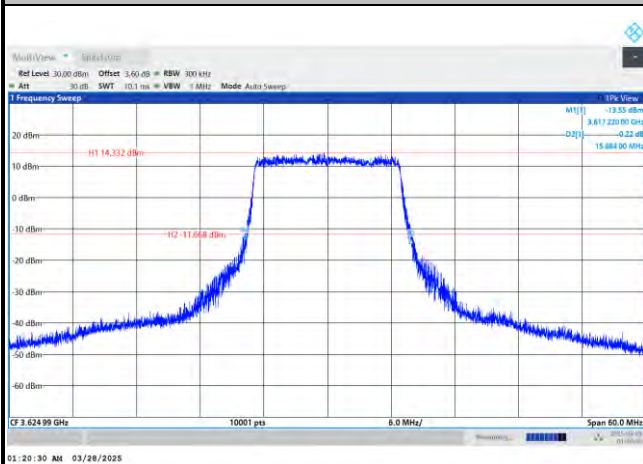
QPSK



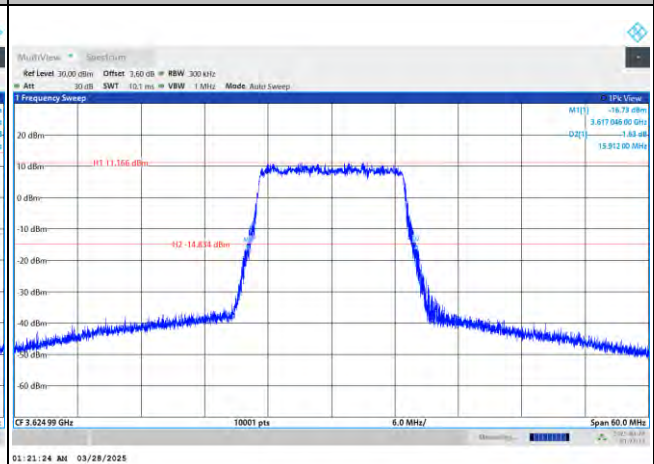
16QAM



64QAM



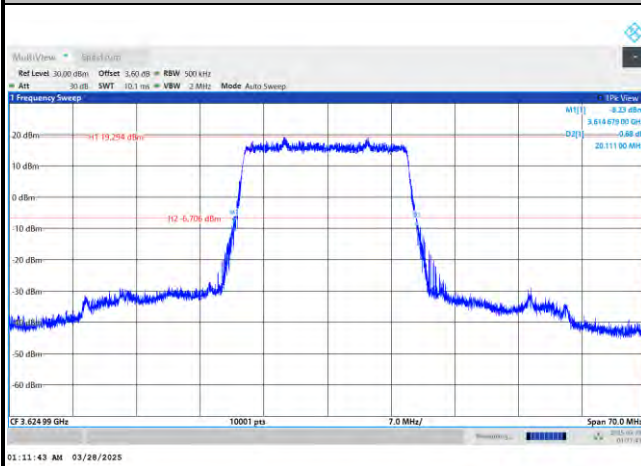
256QAM





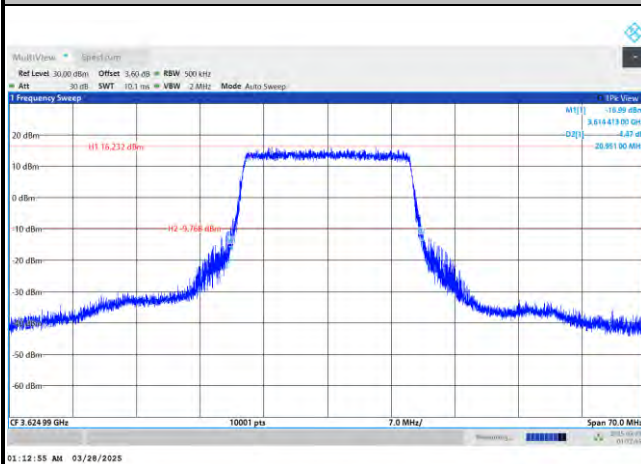
FR1 n48 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

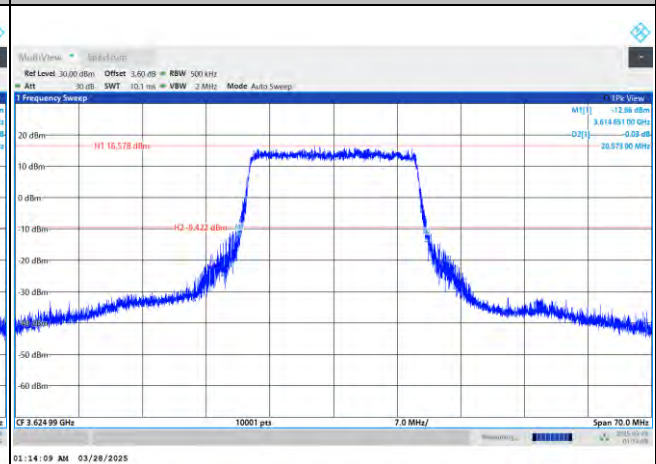


FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

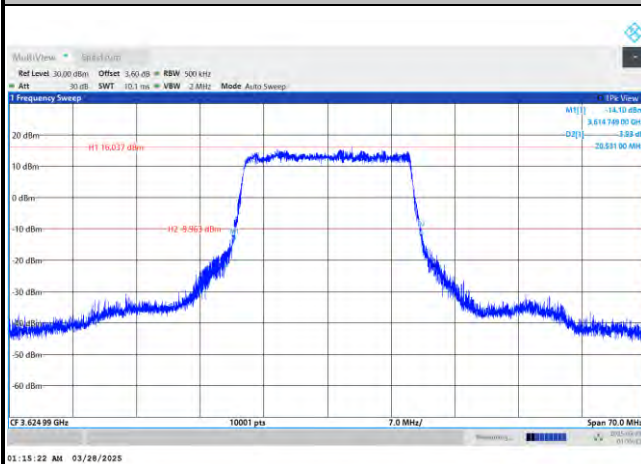
QPSK



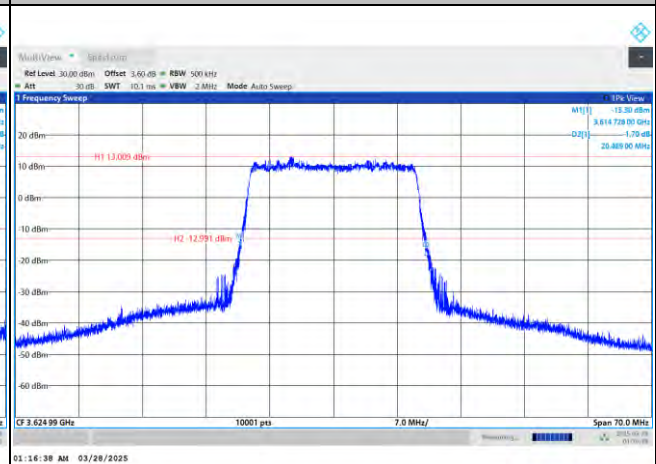
16QAM



64QAM



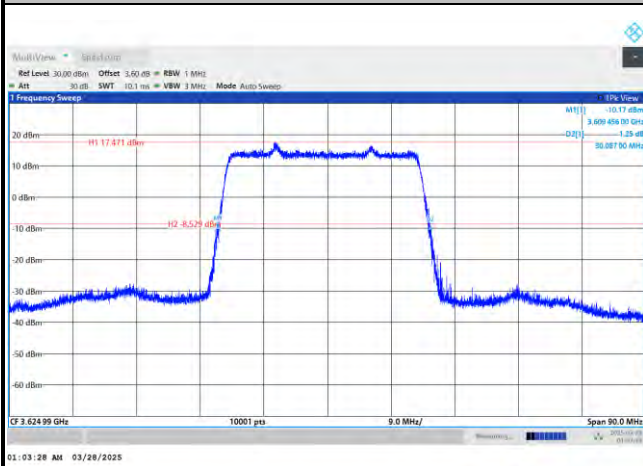
256QAM





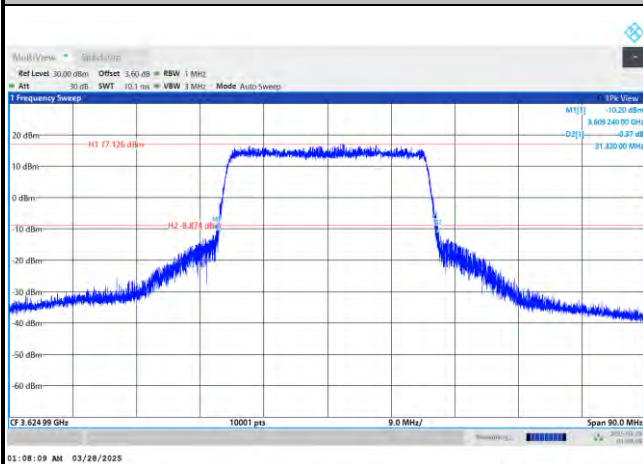
FR1 n48 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

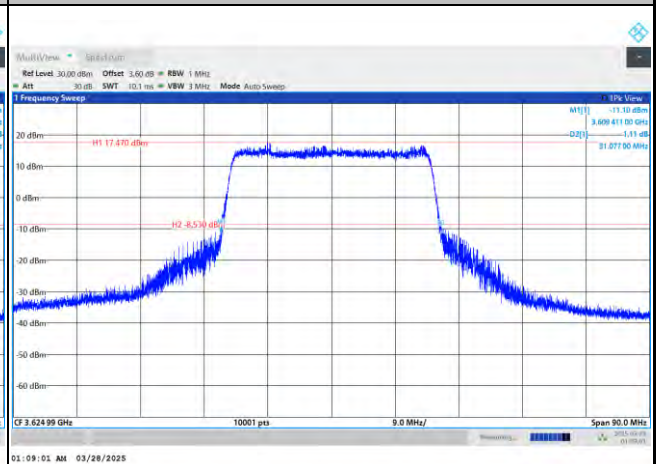


FR1 n48 / 30MHz / CP OFDM / Middle Channel / Full RB

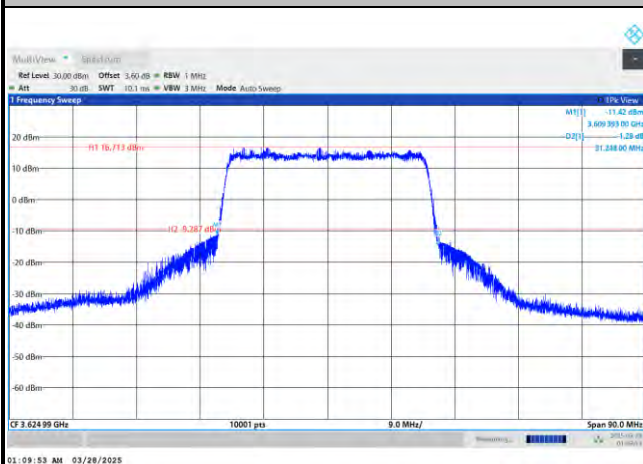
QPSK



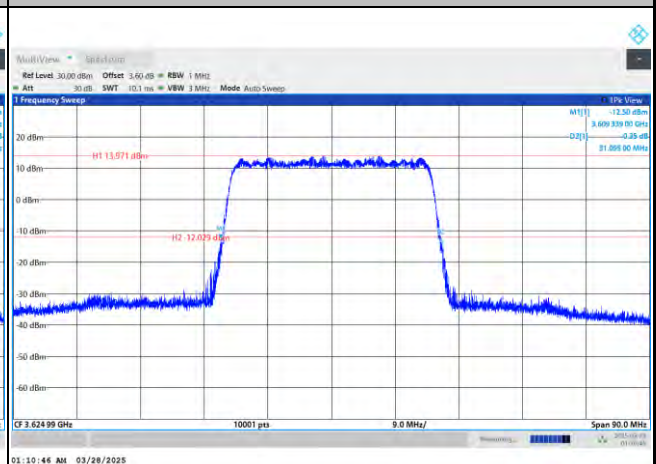
16QAM



64QAM



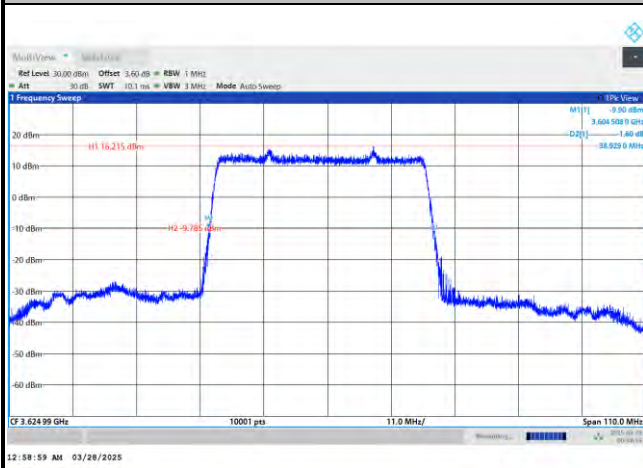
256QAM





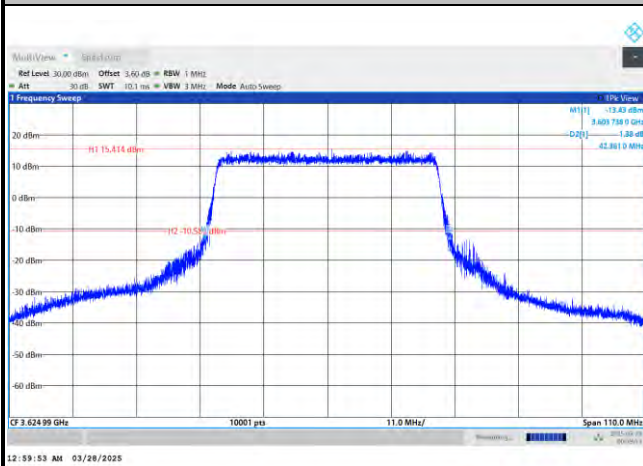
FR1 n48 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

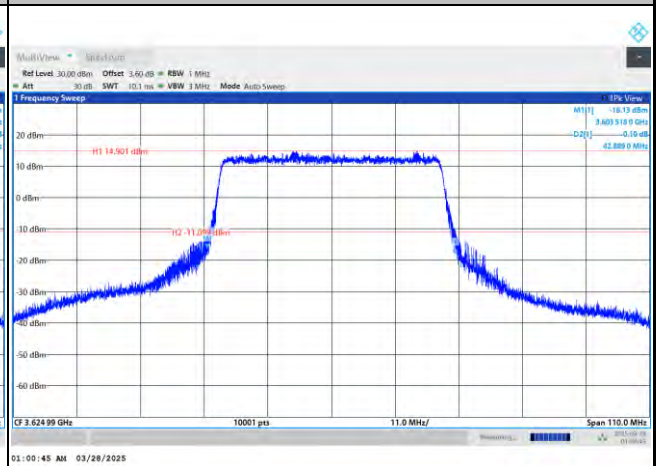


FR1 n48 / 40MHz / CP OFDM / Middle Channel / Full RB

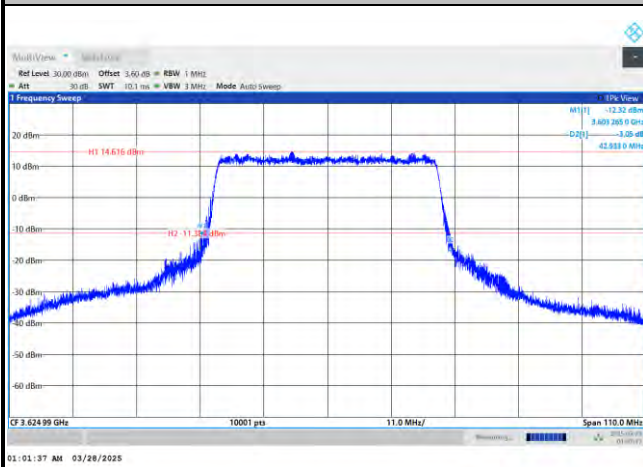
QPSK



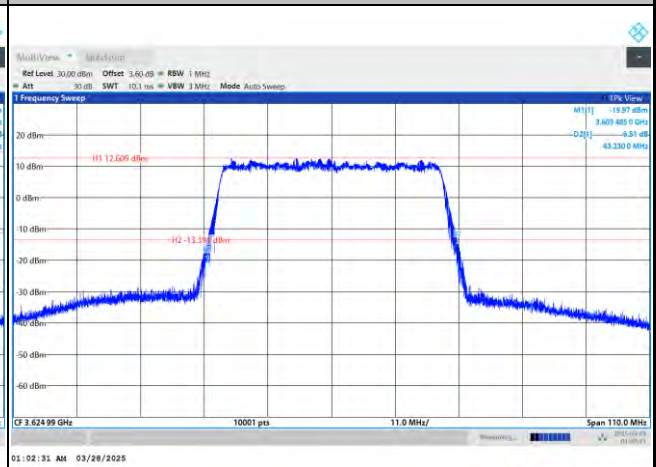
16QAM



64QAM



256QAM



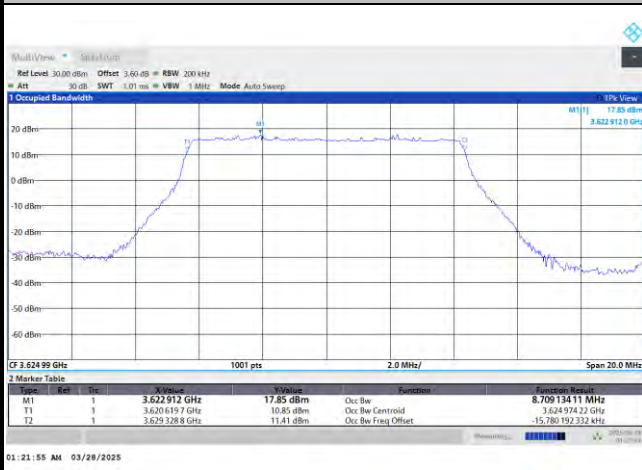
Occupied Bandwidth

Mode	FR1 n48 : OB BW(MHz) / DFT-S OFDM							
BW	10MHz	15MHz	20MHz	30MHz	40MHz	50MHz	60MHz	70MHz
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK
Middle CH	8.70	13.01	18.03	27.29	36.00	-	-	-
BW	80MHz	90MHz	100MHz					
Mod.	PI/2 BPSK	PI/2 BPSK	PI/2 BPSK					
Middle CH	-	-	-					

Mode	FR1 n48 : OB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		30MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.72	8.69	13.69	13.64	18.40	18.36	28.22	28.20
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.68	8.69	13.75	13.80	18.39	18.34	28.22	28.19
BW	40MHz		50MHz		60MHz		70MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	38.19	38.17	-	-	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	38.10	38.35	-	-	-	-	-	-
BW	80MHz		90MHz		100MHz			
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM		
Middle CH	-	-	-	-	-	-		
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM		
Middle CH	-	-	-	-	-	-		

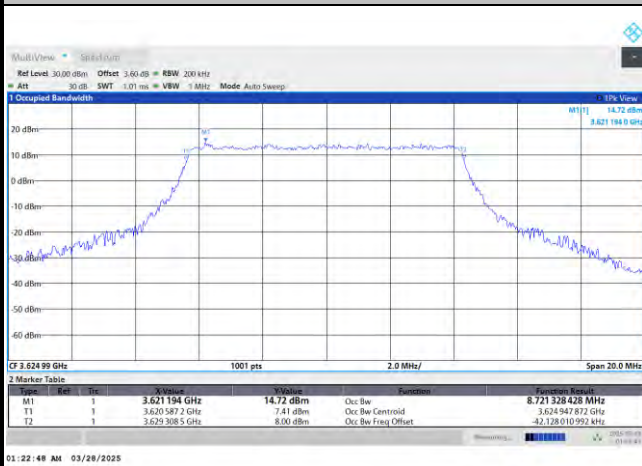
FR1 n48 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

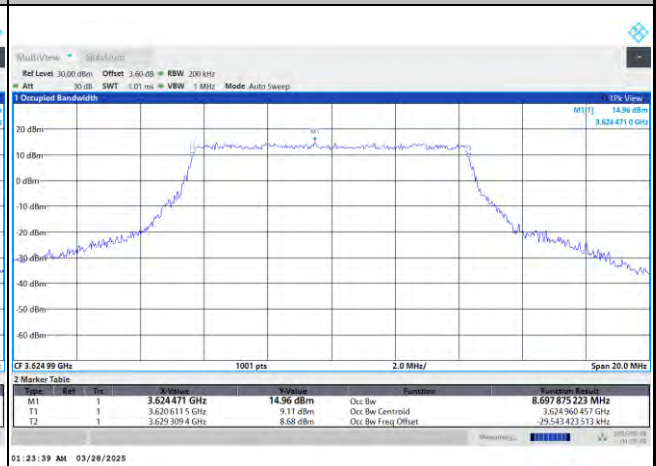


FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

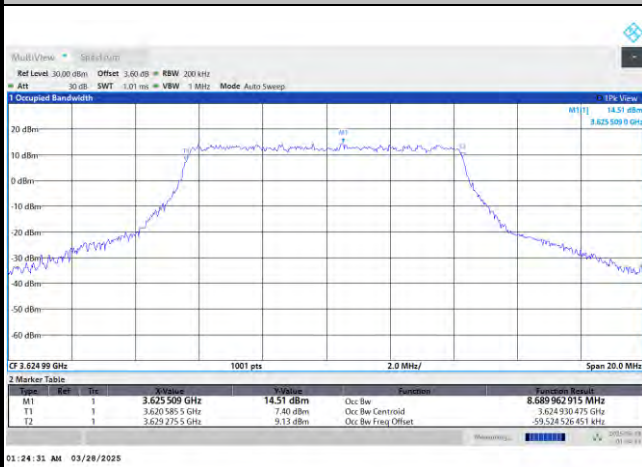
QPSK



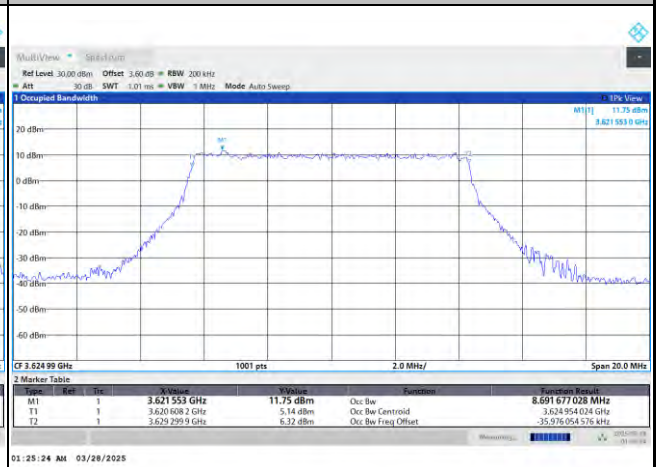
16QAM



64QAM

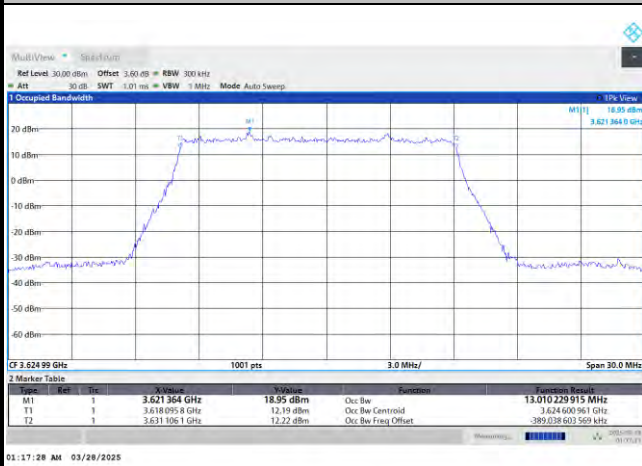


256QAM



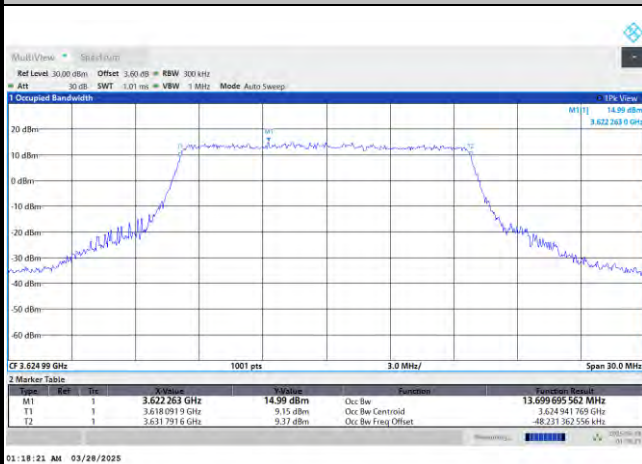
FR1 n48 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

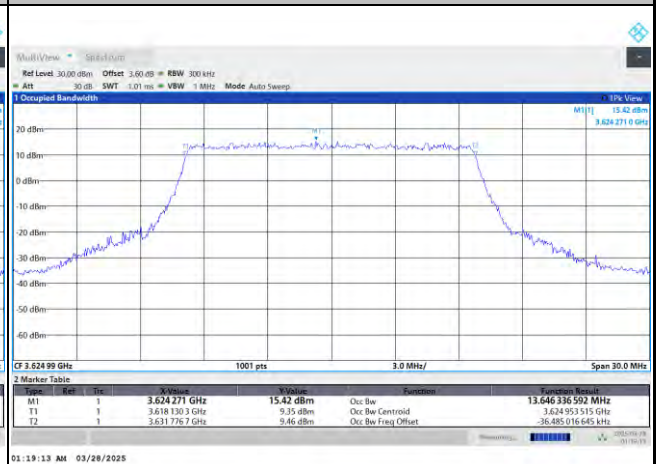


FR1 n48 / 15MHz / CP OFDM / Middle Channel / Full RB

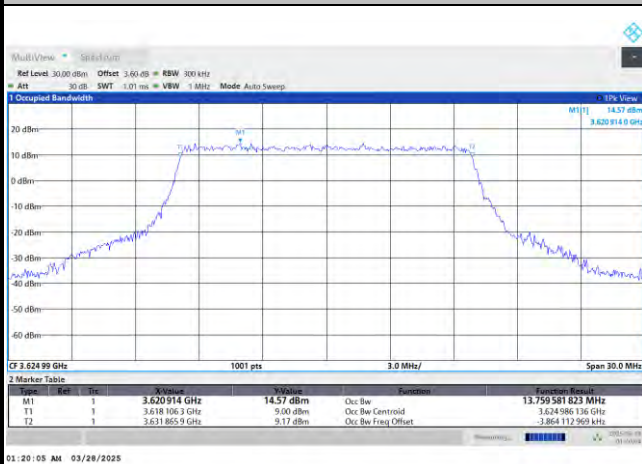
QPSK



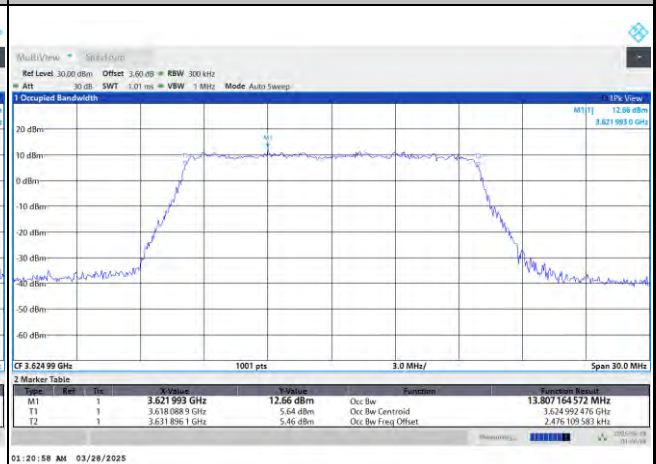
16QAM



64QAM

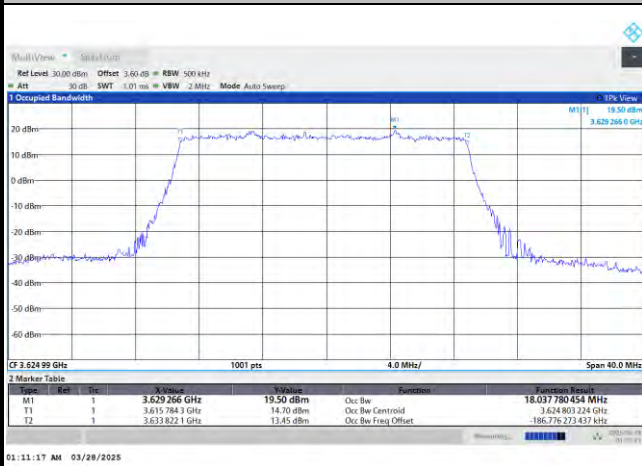


256QAM



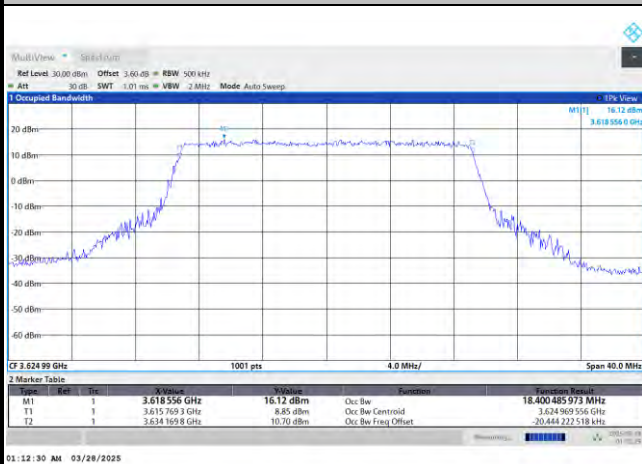
FR1 n48 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

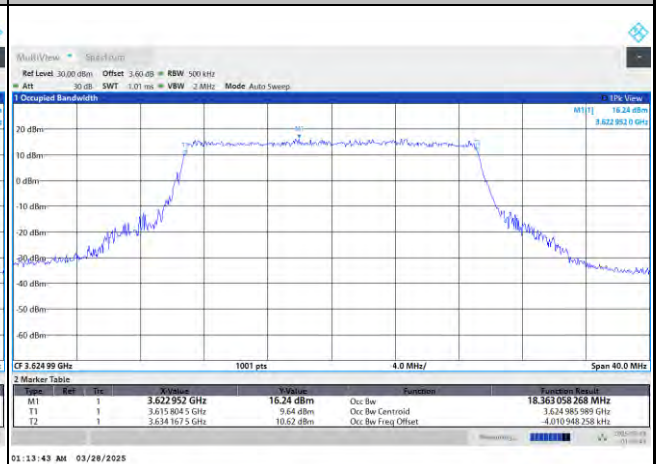


FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

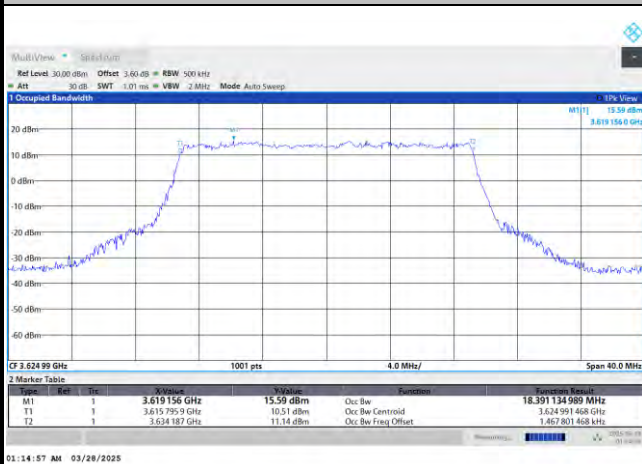
QPSK



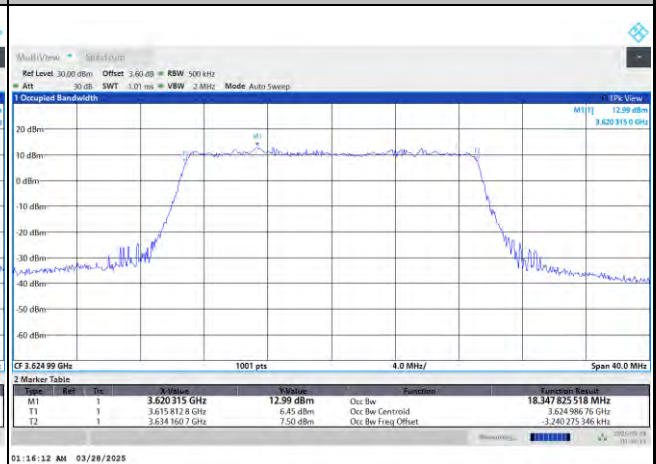
16QAM



64QAM

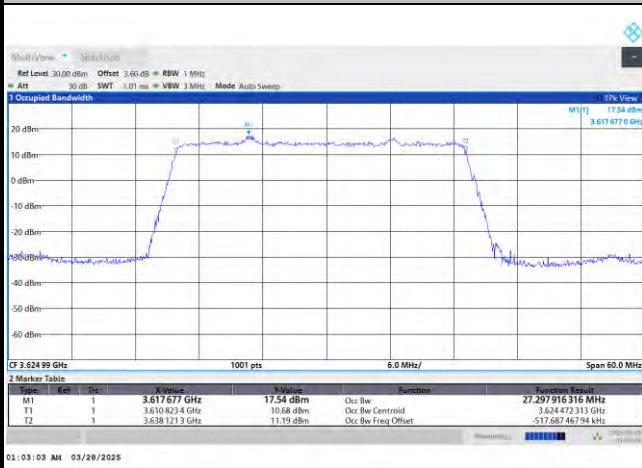


256QAM



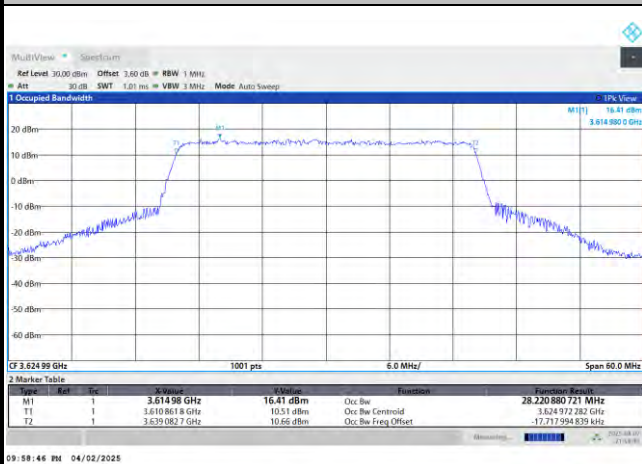
FR1 n48 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

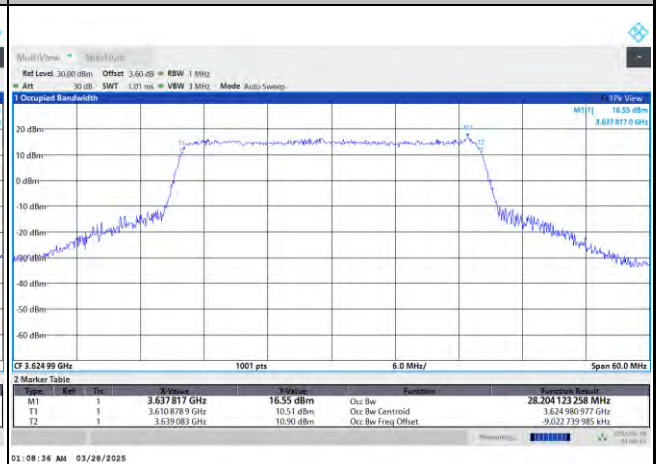


FR1 n48 / 30MHz / CP OFDM / Middle Channel / Full RB

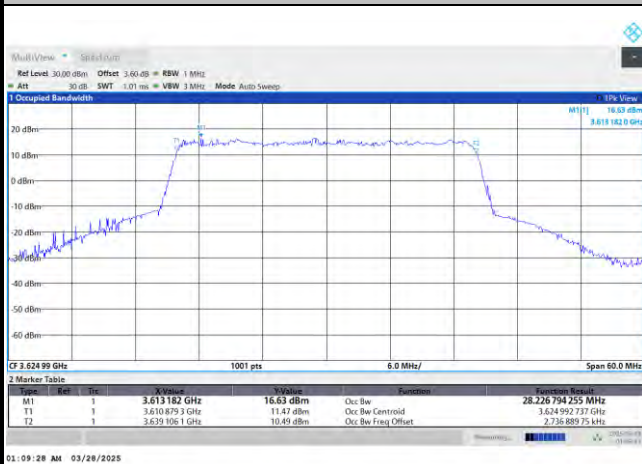
QPSK



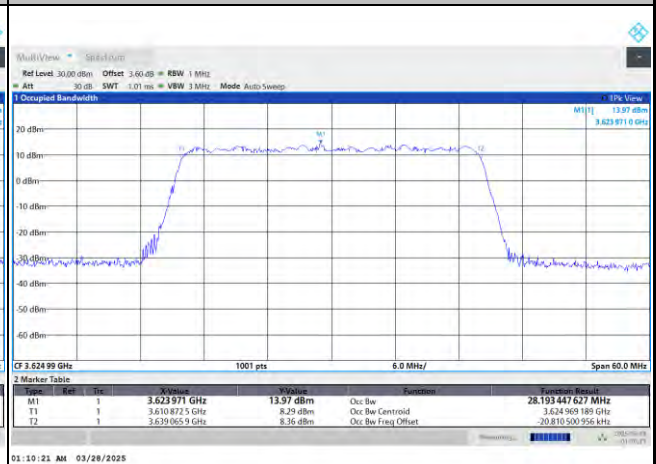
16QAM



64QAM



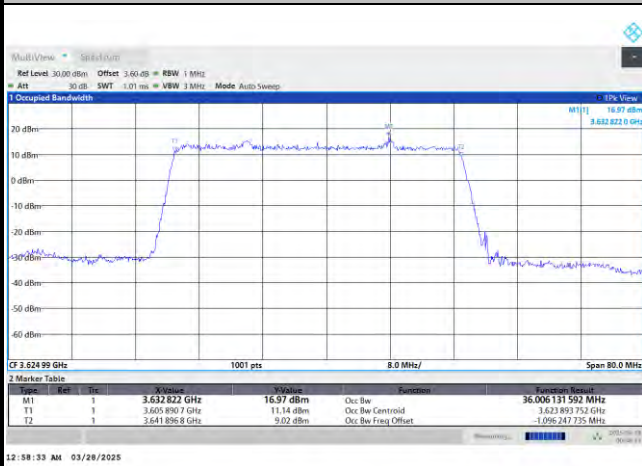
256QAM





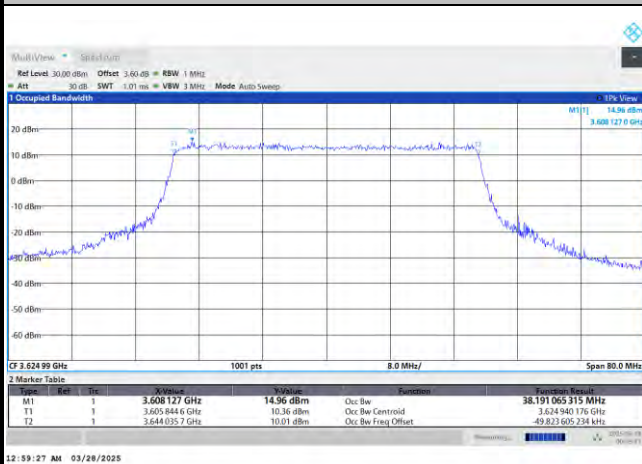
FR1 n48 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

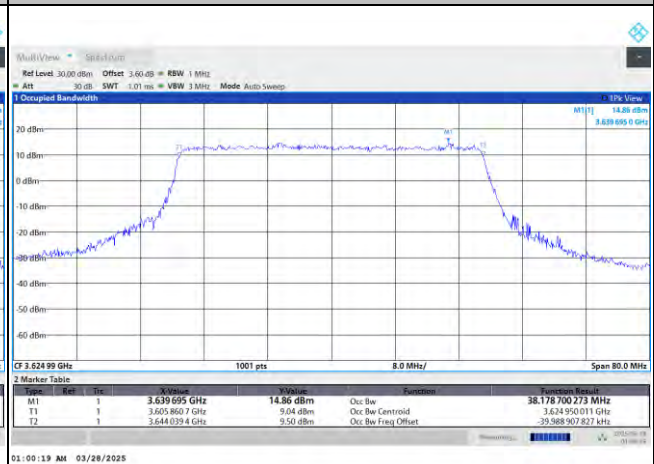


FR1 n48 / 40MHz / CP OFDM / Middle Channel / Full RB

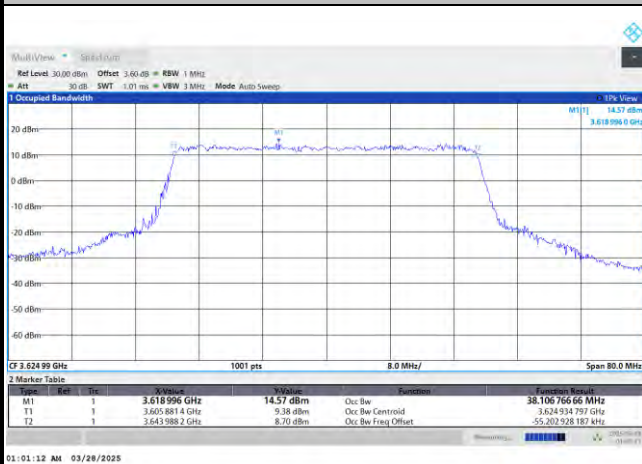
QPSK



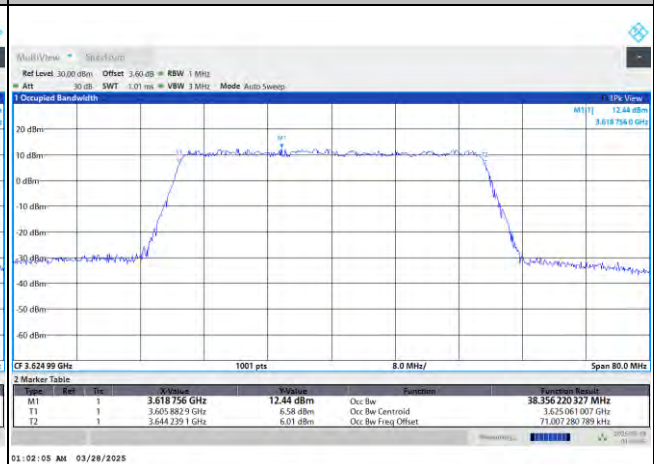
16QAM



64QAM

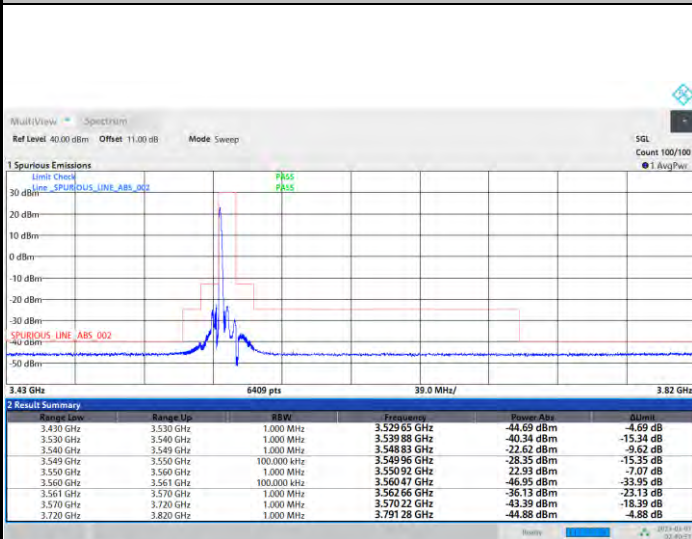


256QAM

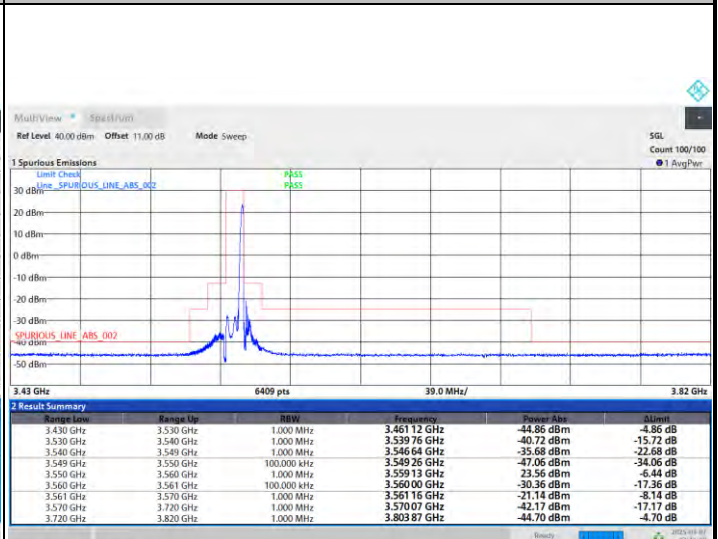


**Unwanted Emission (MASK)**

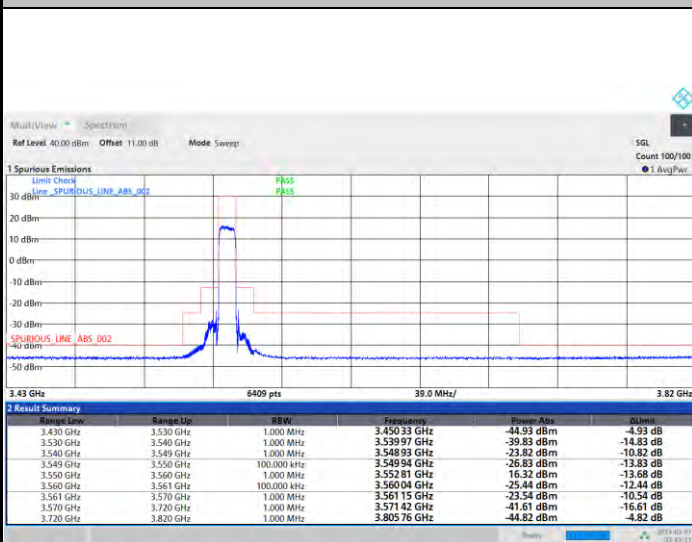
FR1 n48 / 10MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel**1RB0**

02:40:57 AM 03/07/2025

1RBmax

02:41:39 AM 03/07/2025

Full RB

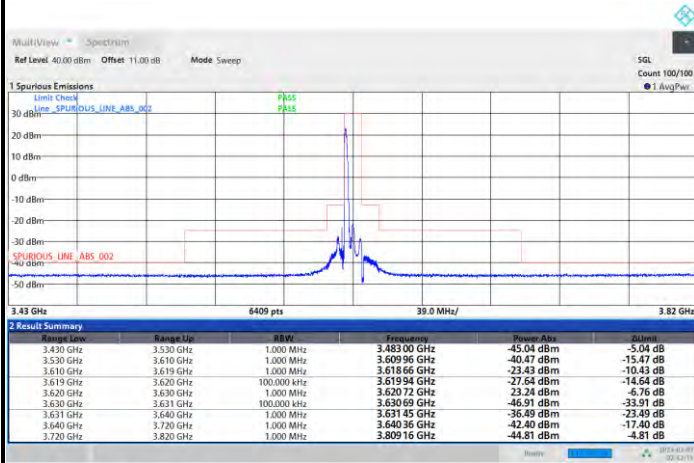
02:42:21 AM 03/07/2025



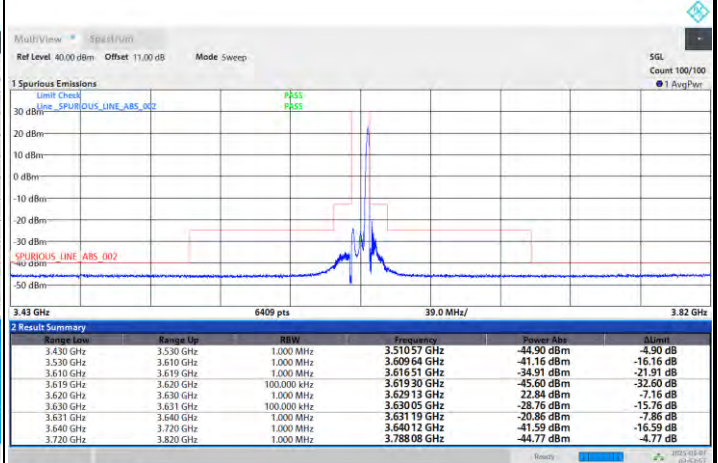
FR1 n48 / 10MHz / DFT-S OFDM / PI/2 BPSK

Middle Channel

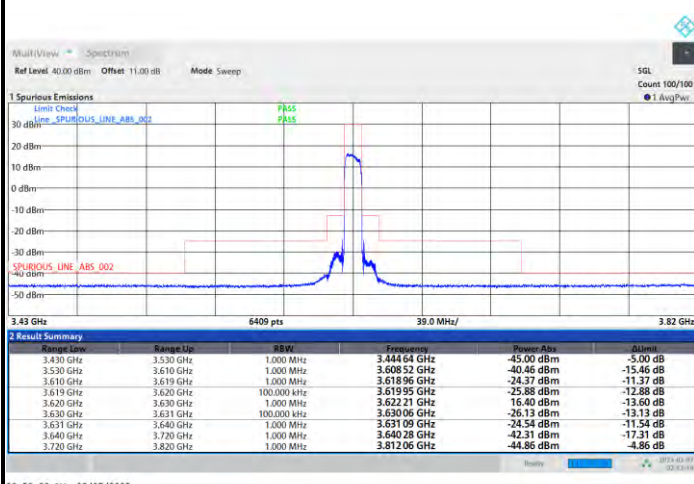
1RB0



1RBmax



Full RB

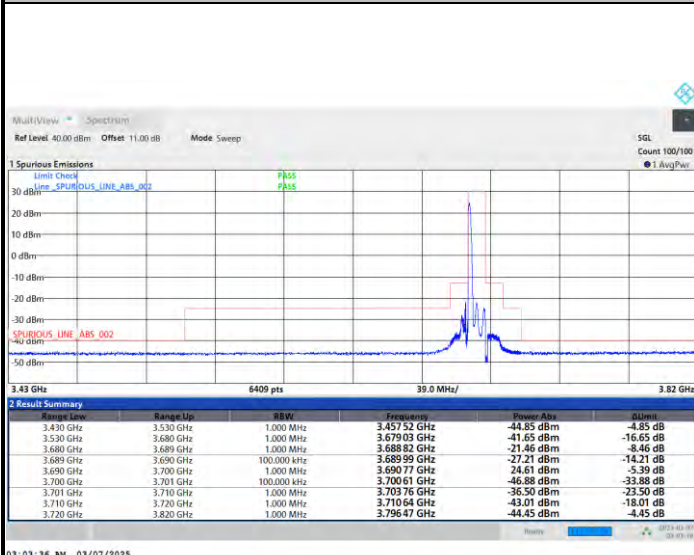




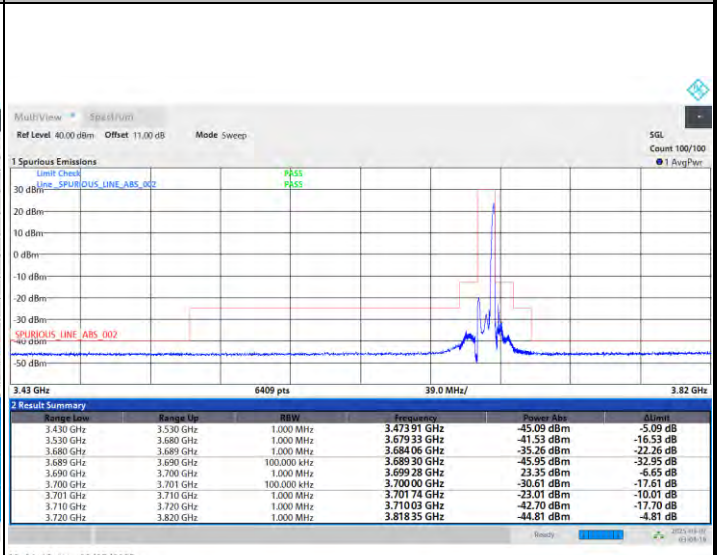
FR1 n48 / 10MHz / DFT-S OFDM / PI/2 BPSK

Highest Channel

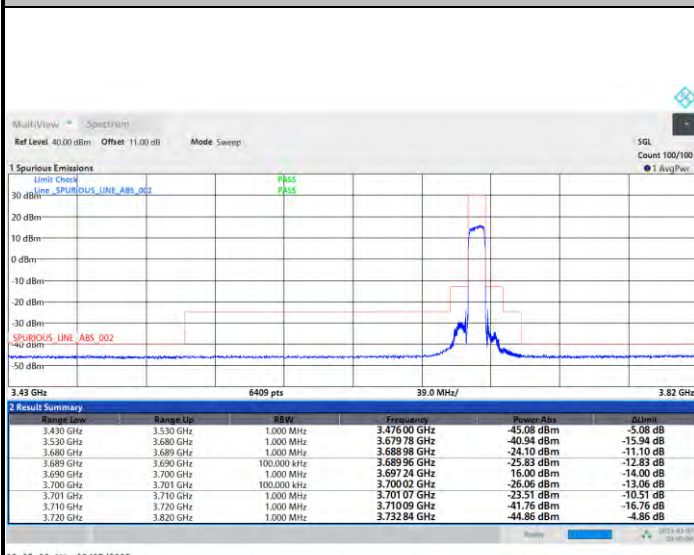
1RB0



1RBmax



Full RB

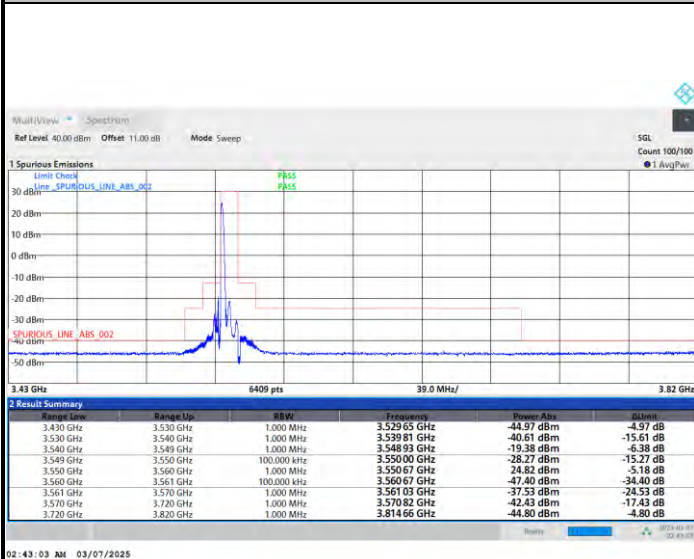




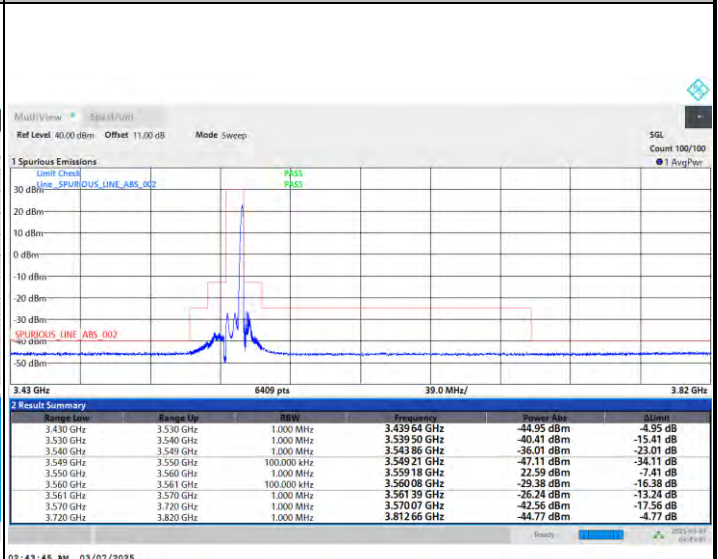
FR1 n48 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel

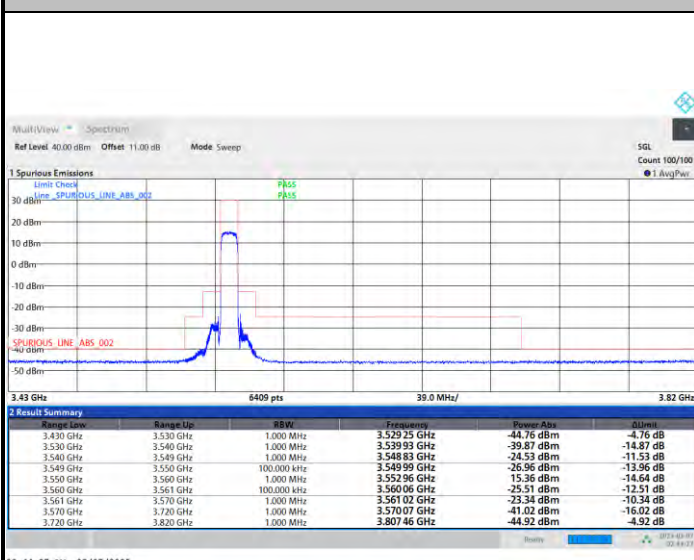
1RB0



1RBmax



Full RB

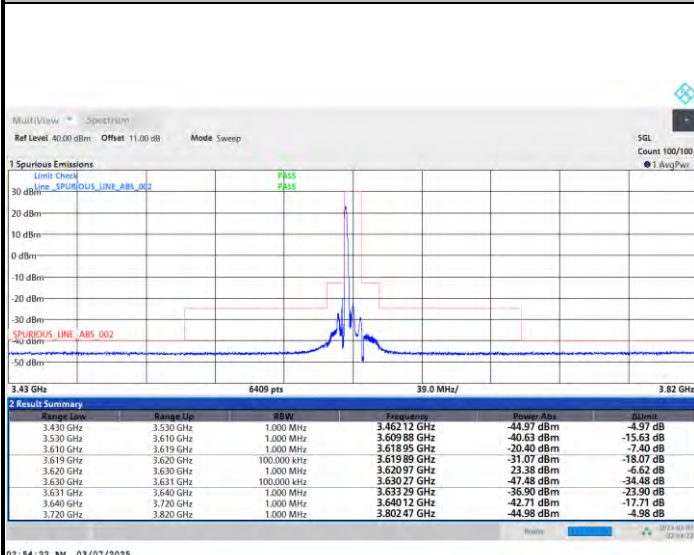




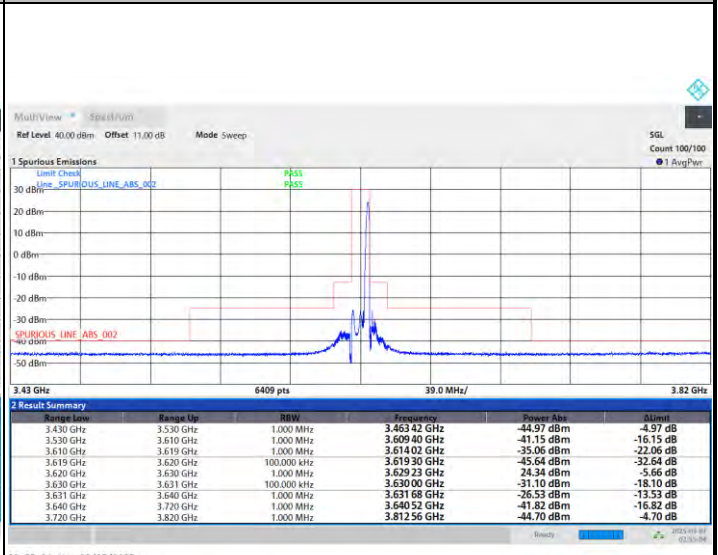
FR1 n48 / 10MHz / DFT-S OFDM / QPSK

Middle Channel

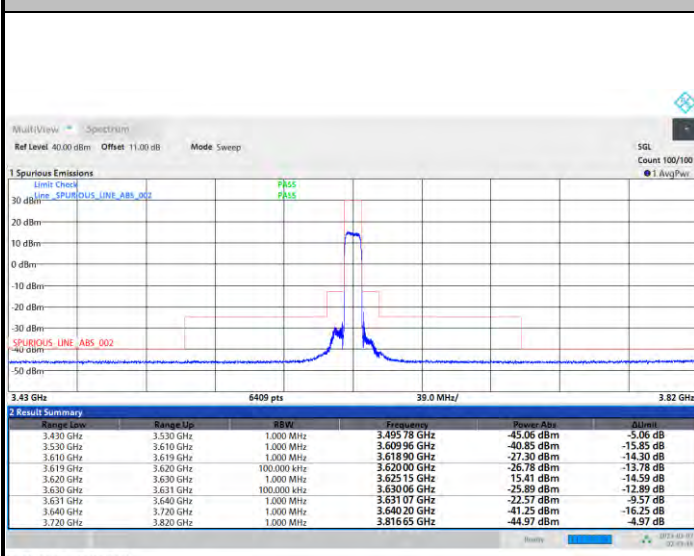
1RB0



1RBmax



Full RB

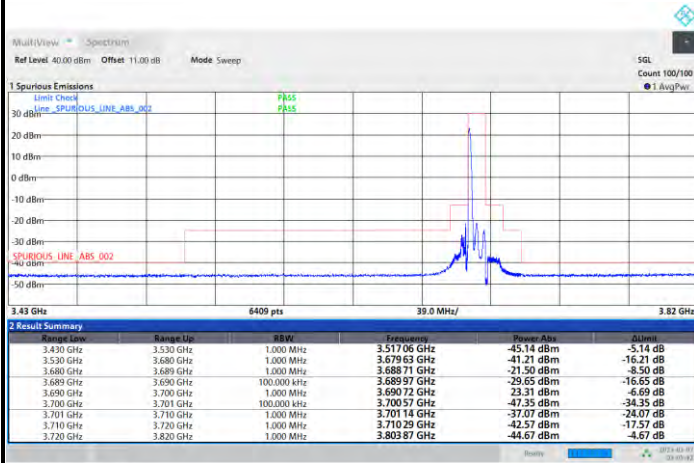




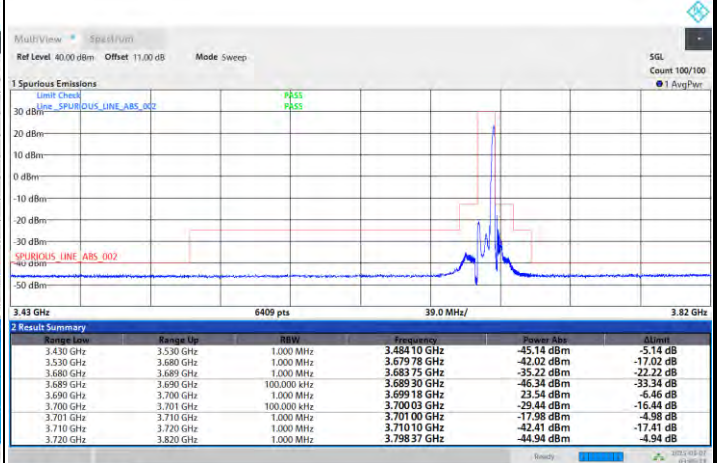
FR1 n48 / 10MHz / DFT-S OFDM / QPSK

Highest Channel

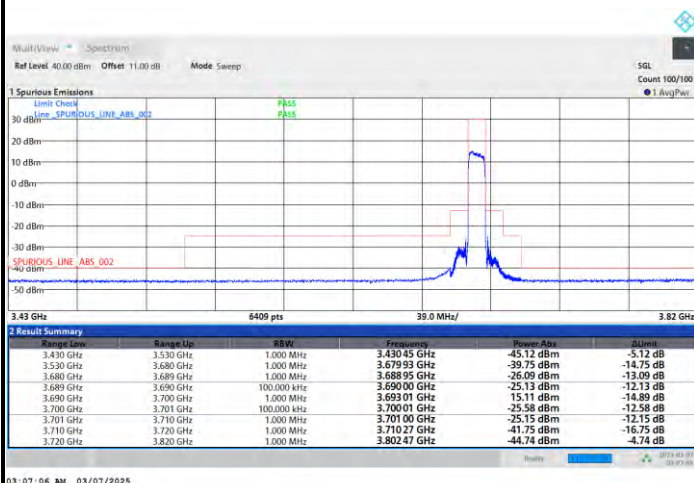
1RB0



1RBmax



Full RB

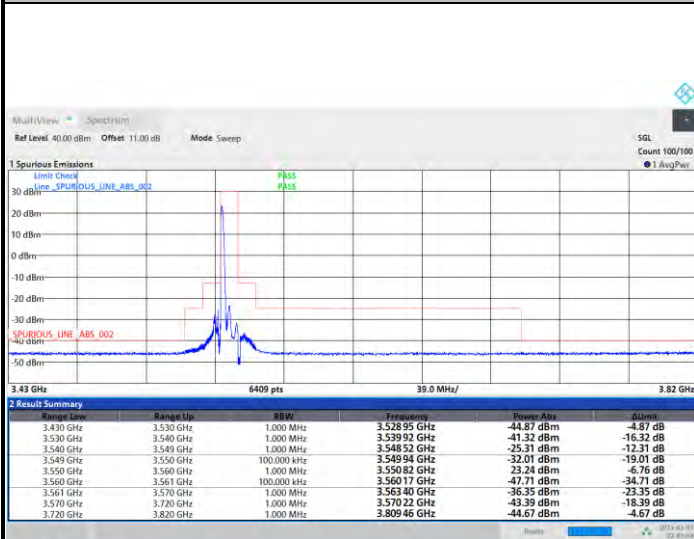




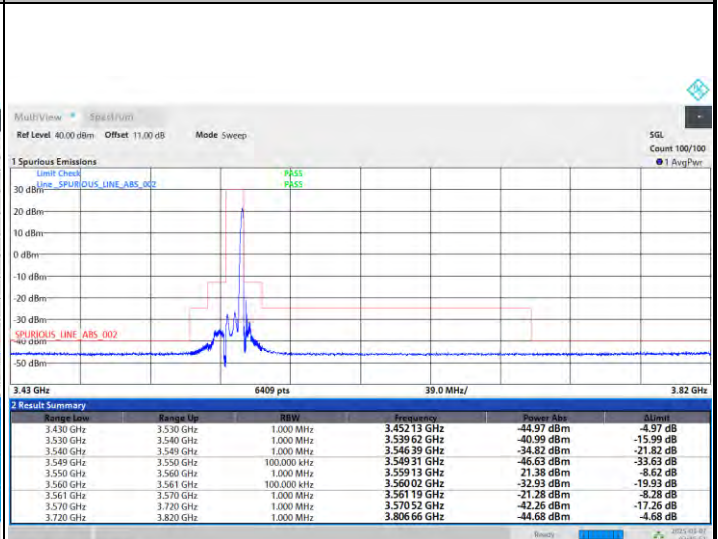
FR1 n48 / 10MHz / DFT-S OFDM / 16QAM

Lowest Channel

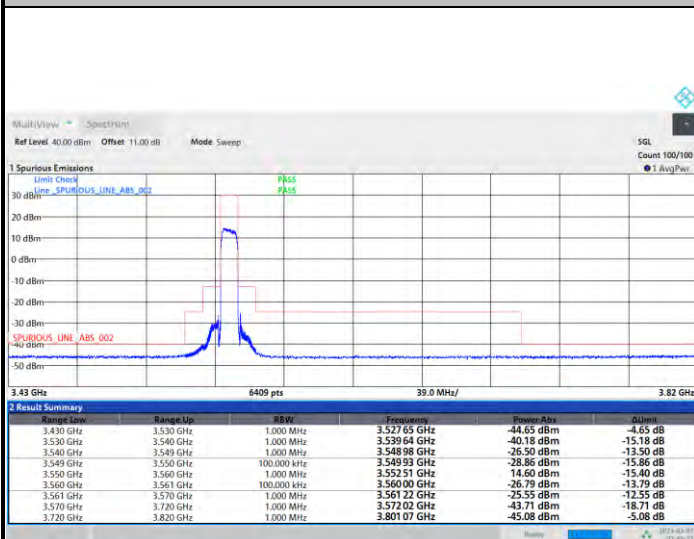
1RB0



1RBmax



Full RB

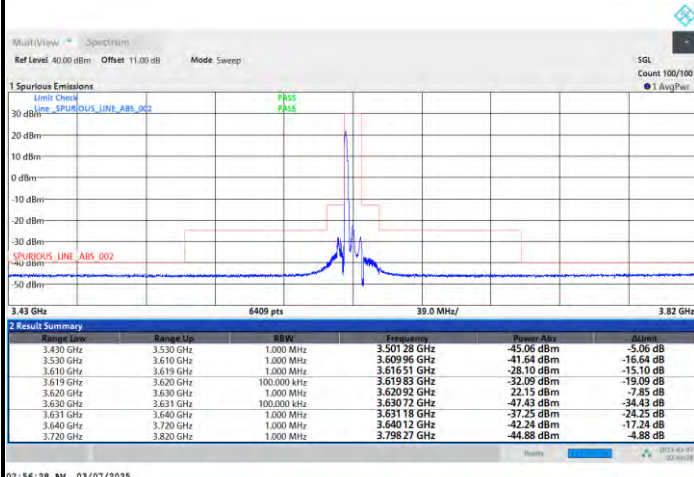




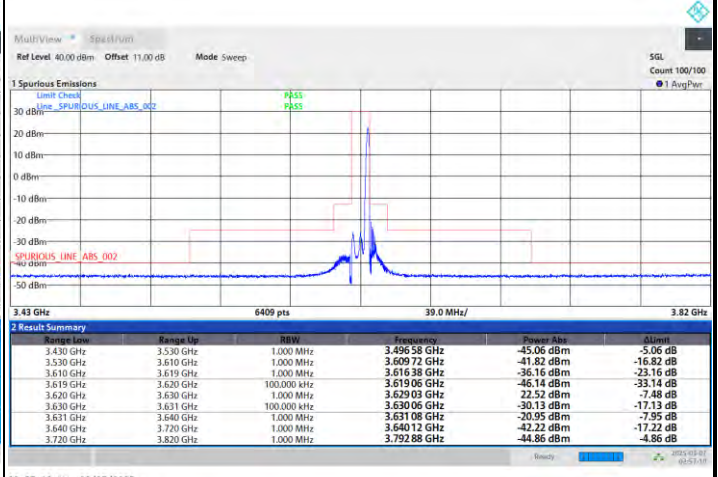
FR1 n48 / 10MHz / DFT-S OFDM / 16QAM

Middle Channel

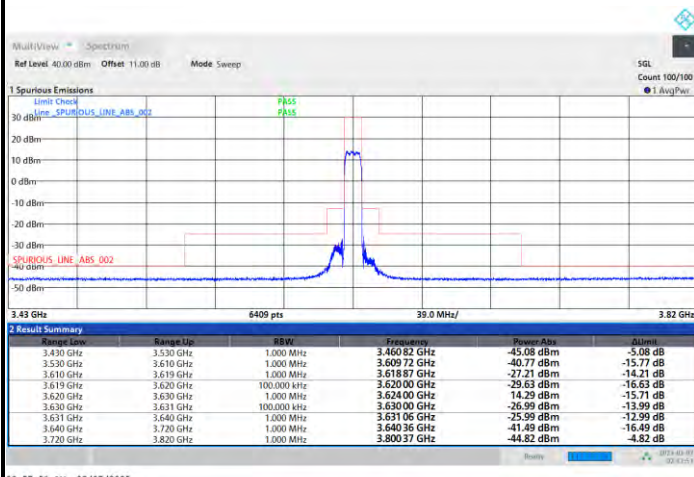
1RB0



1RBmax



Full RB

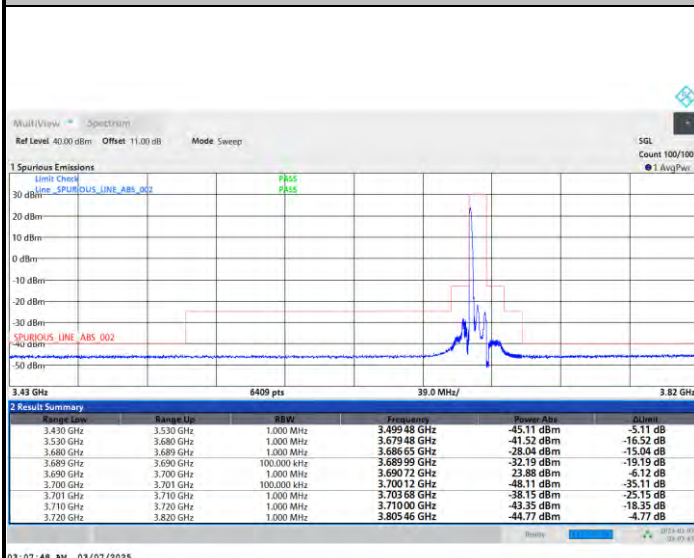




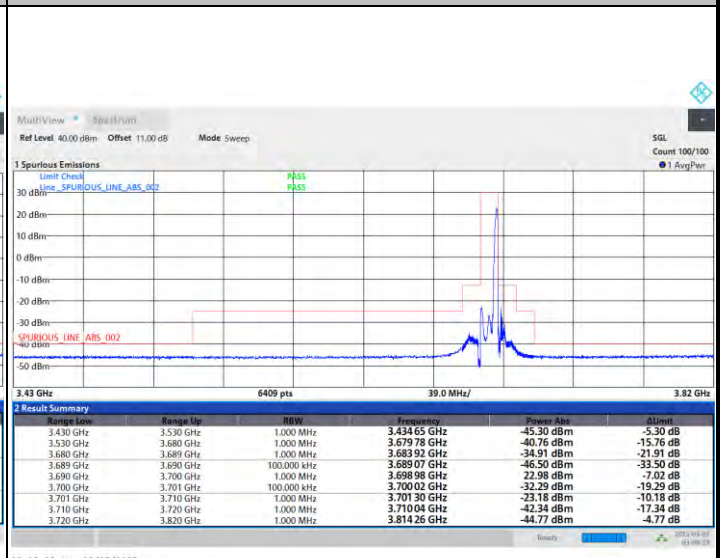
FR1 n48 / 10MHz / DFT-S OFDM / 16QAM

Highest Channel

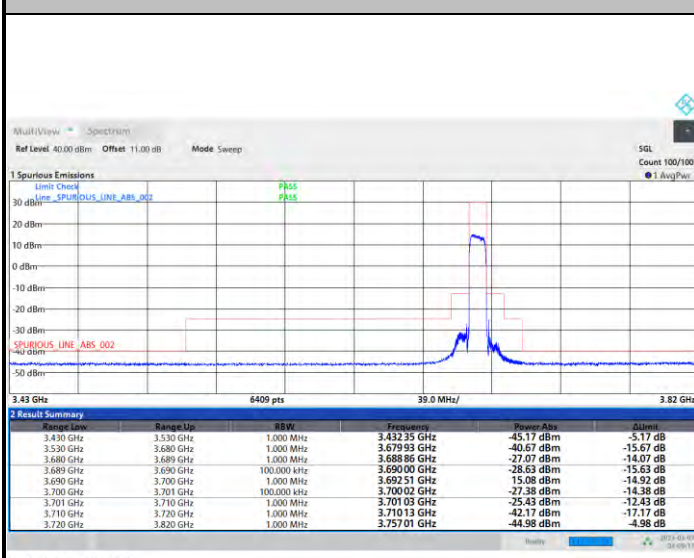
1RB0



1RBmax



Full RB

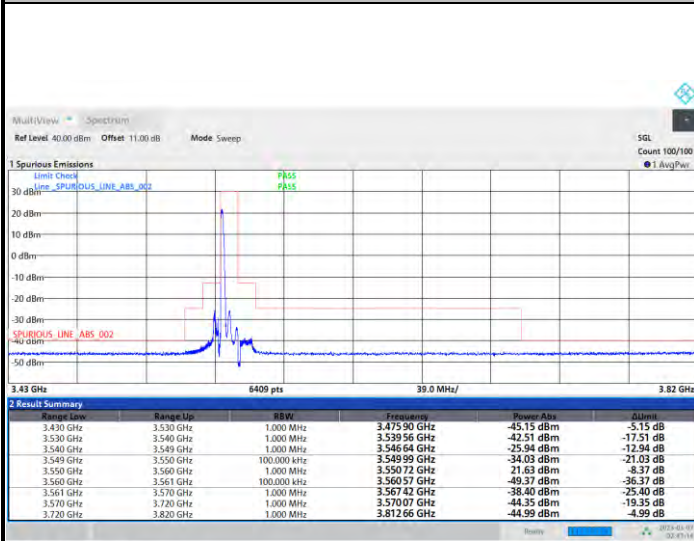




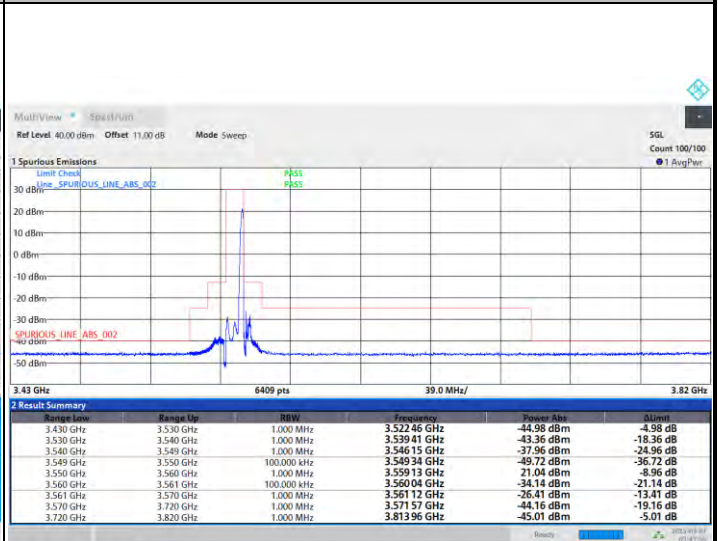
FR1 n48 / 10MHz / DFT-S OFDM / 64QAM

Lowest Channel

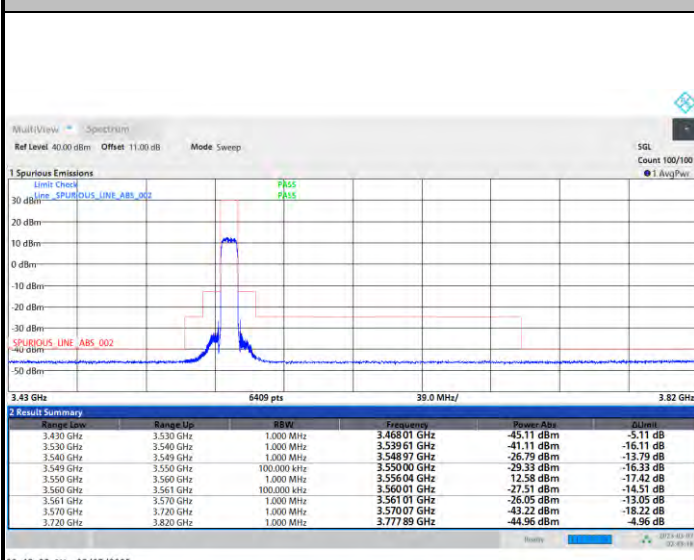
1RB0



1RBmax



Full RB

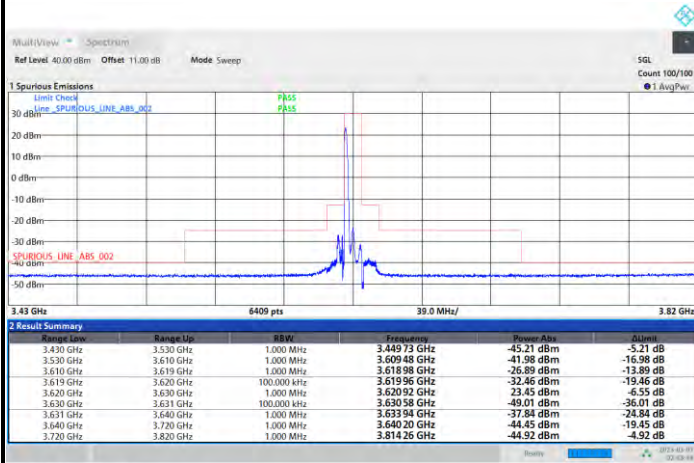




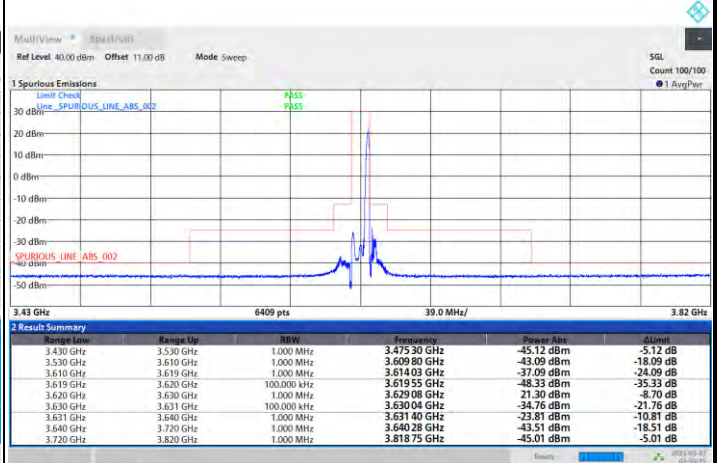
FR1 n48 / 10MHz / DFT-S OFDM / 64QAM

Middle Channel

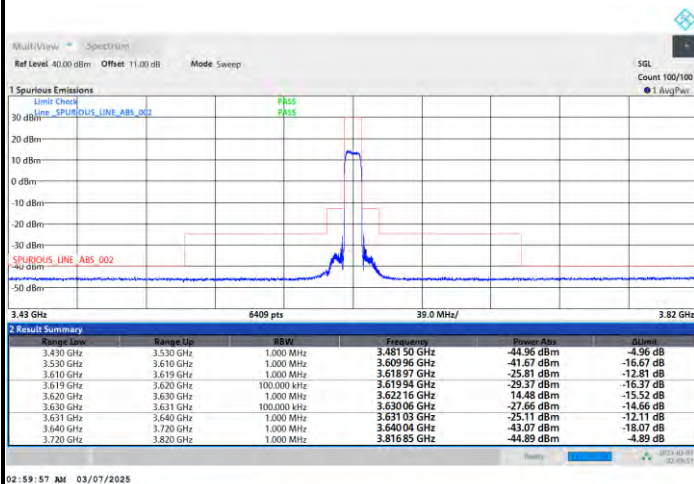
1RB0



1RBmax



Full RB

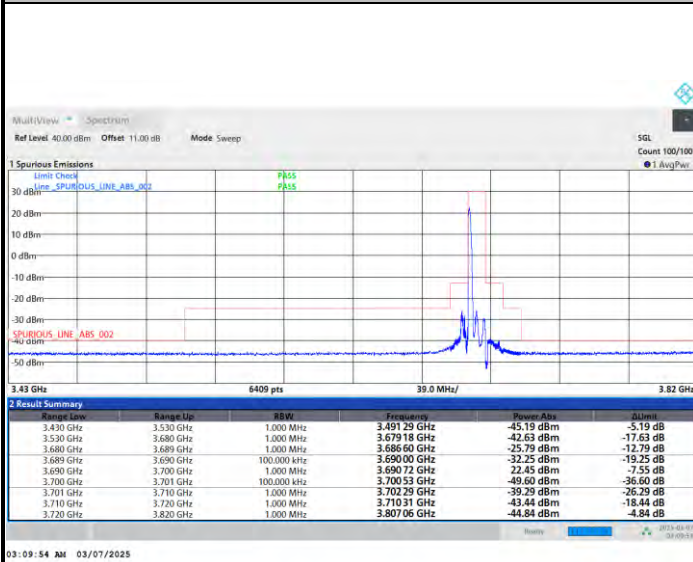




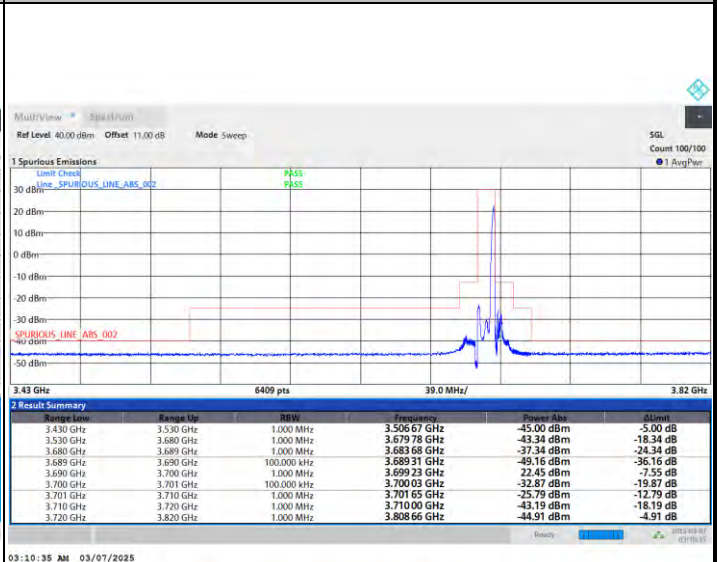
FR1 n48 / 10MHz / DFT-S OFDM / 64QAM

Highest Channel

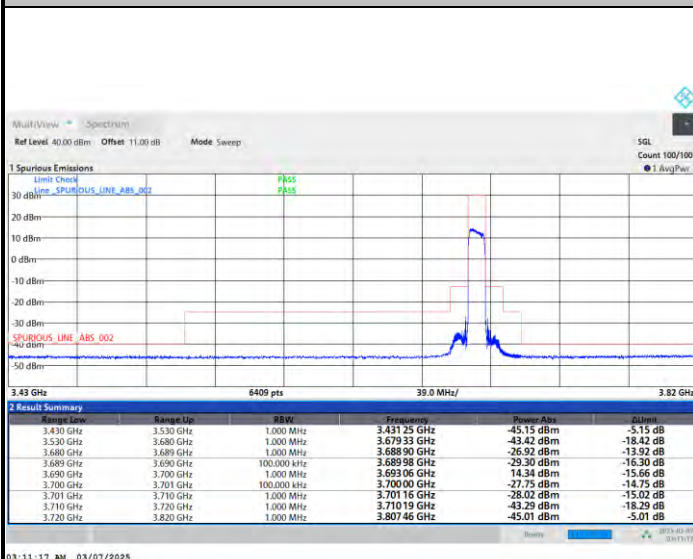
1RB0



1RBmax



Full RB

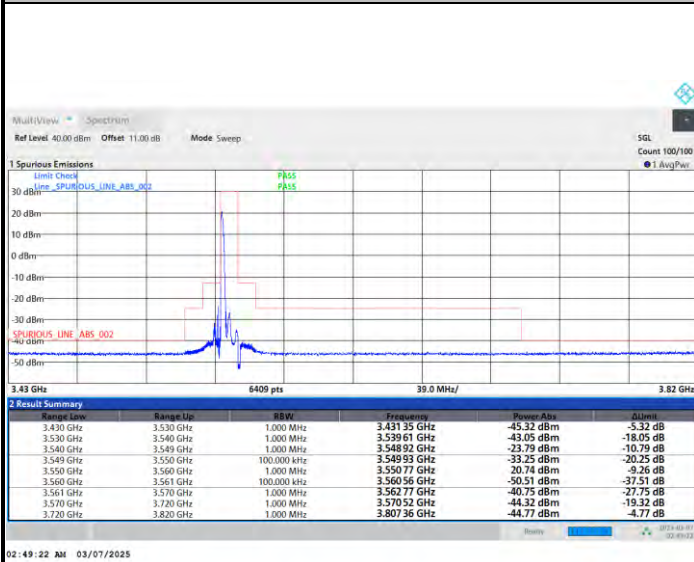




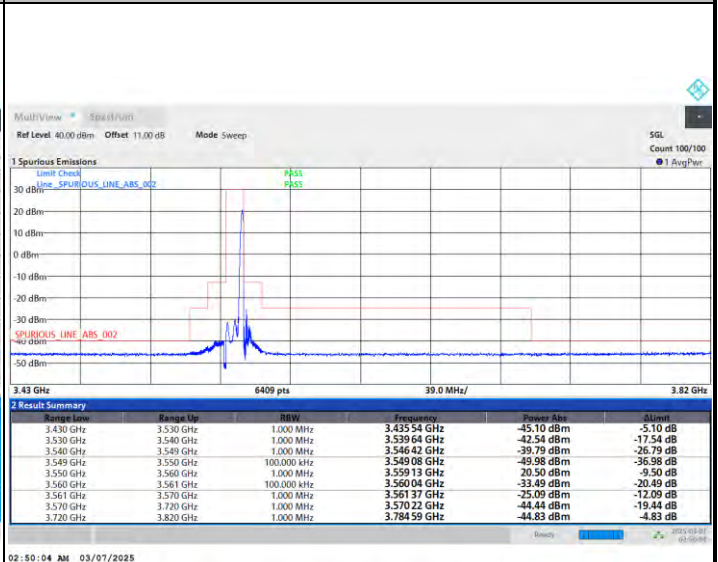
FR1 n48 / 10MHz / DFT-S OFDM / 256QAM

Lowest Channel

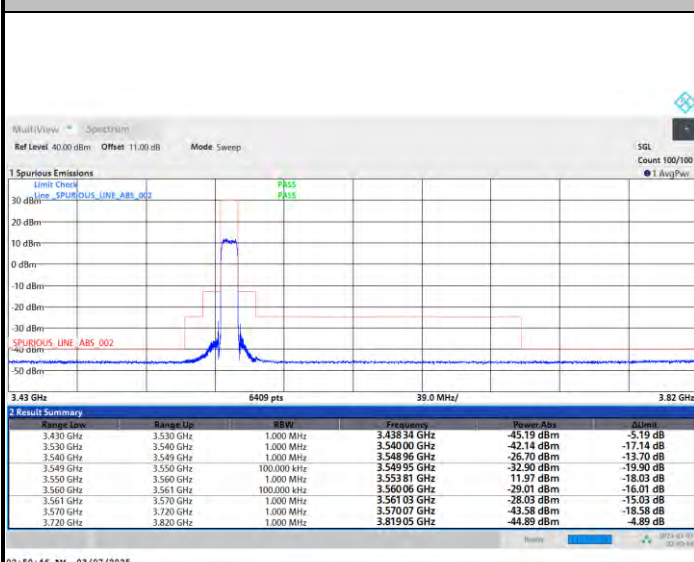
1RB0



1RBmax



Full RB

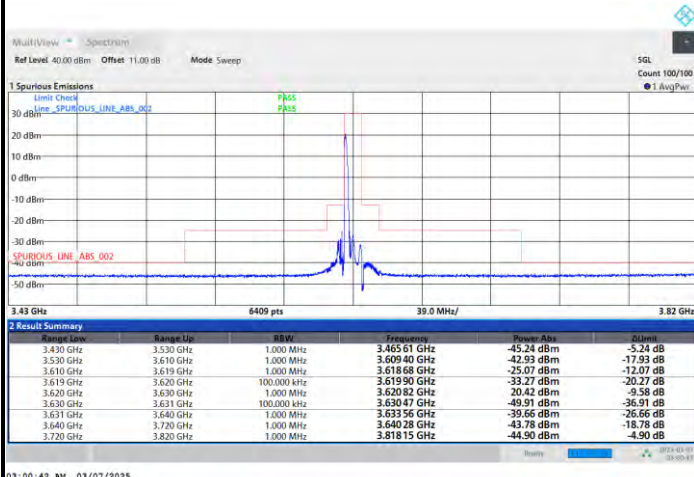




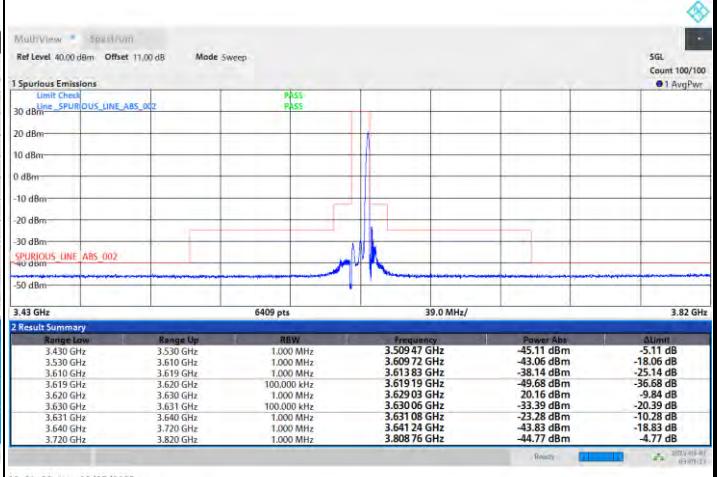
FR1 n48 / 10MHz / DFT-S OFDM / 256QAM

Middle Channel

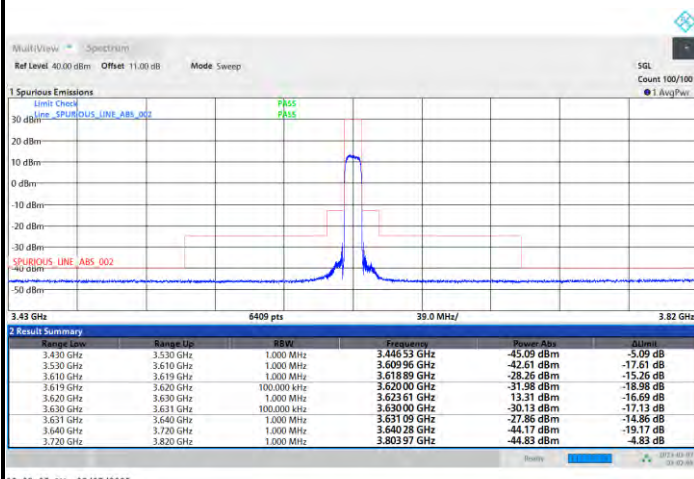
1RB0



1RBmax



Full RB

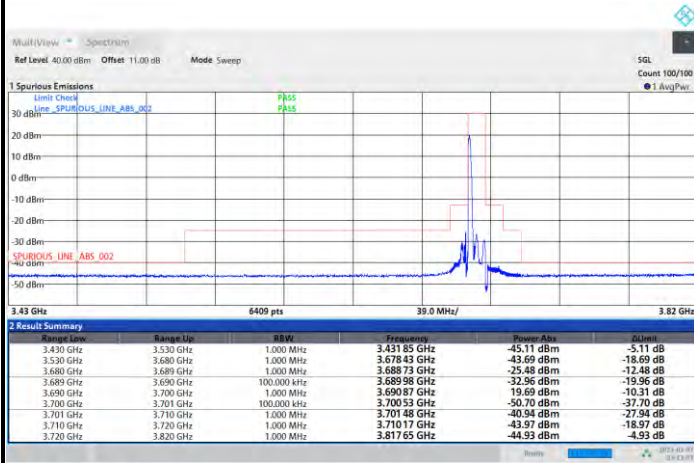




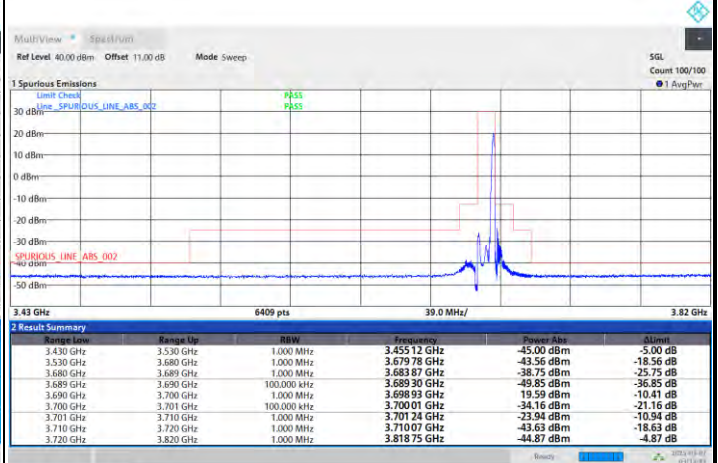
FR1 n48 / 10MHz / DFT-S OFDM / 256QAM

Highest Channel

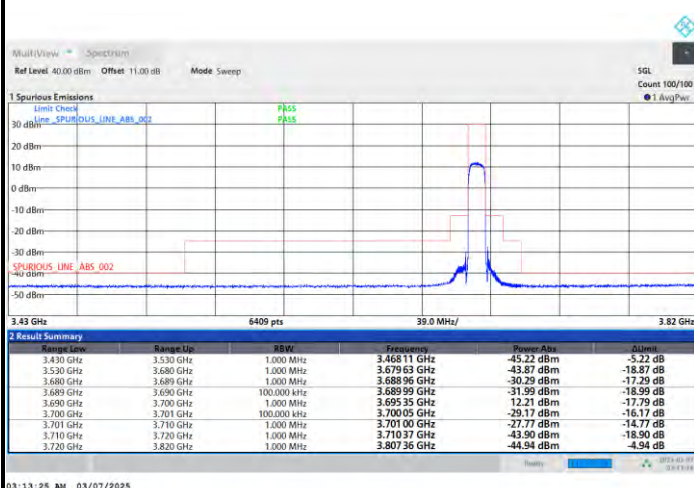
1RB0



1RBmax



Full RB

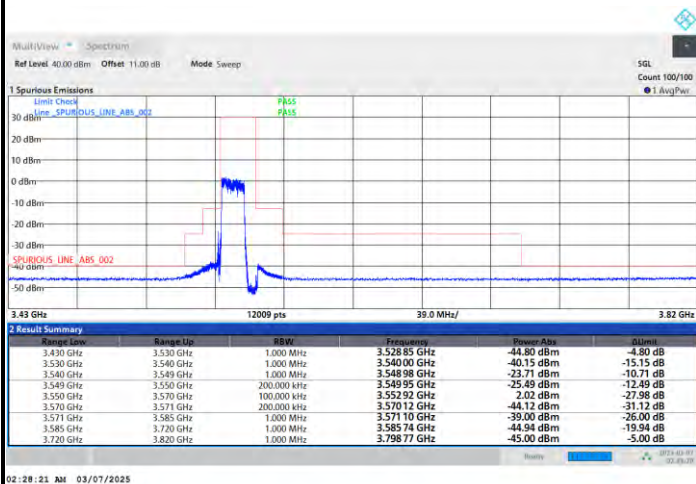




FR1 n48 / 15MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel

Full RB

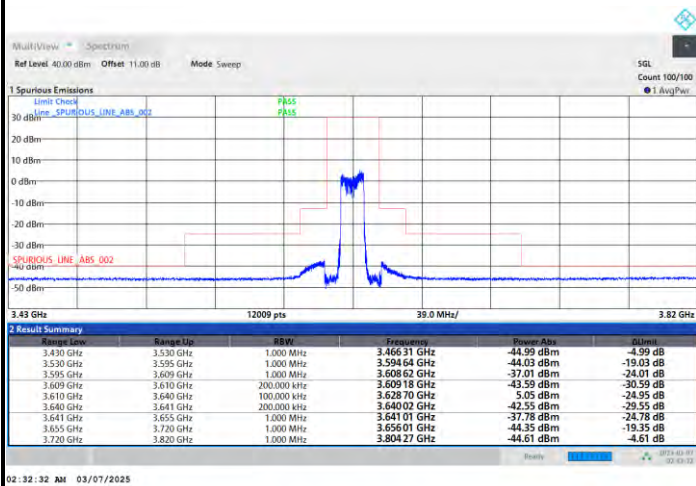




FR1 n48 / 15MHz / DFT-S OFDM / PI/2 BPSK

Middle Channel

Full RB

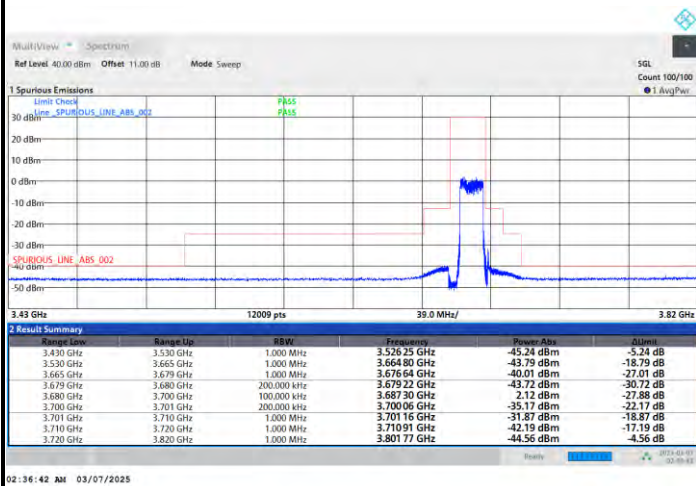




FR1 n48 / 15MHz / DFT-S OFDM / PI/2 BPSK

Highest Channel

Full RB

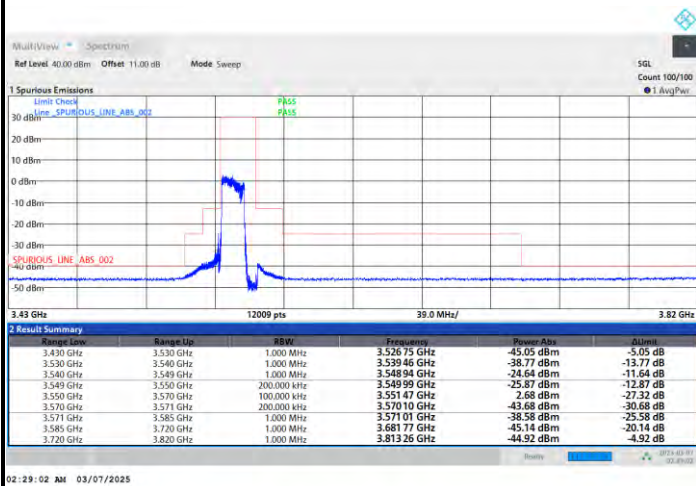




FR1 n48 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel

Full RB

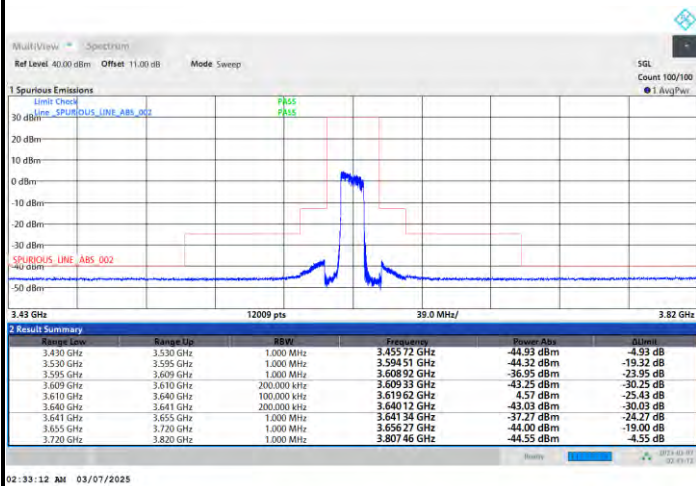




FR1 n48 / 15MHz / DFT-S OFDM / QPSK

Middle Channel

Full RB

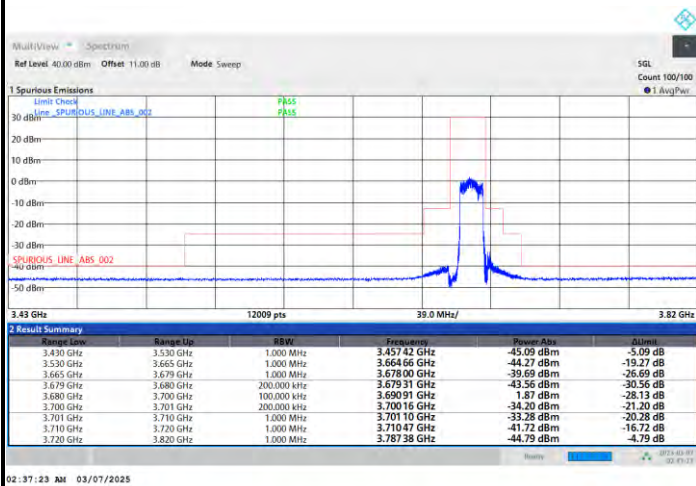




FR1 n48 / 15MHz / DFT-S OFDM / QPSK

Highest Channel

Full RB

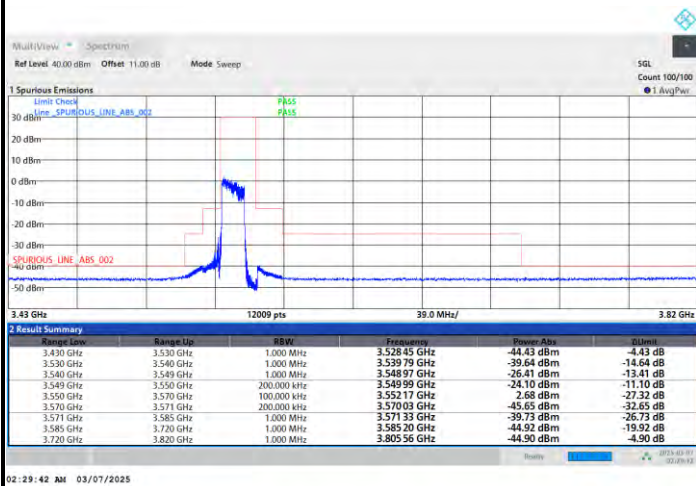




FR1 n48 / 15MHz / DFT-S OFDM / 16QAM

Lowest Channel

Full RB

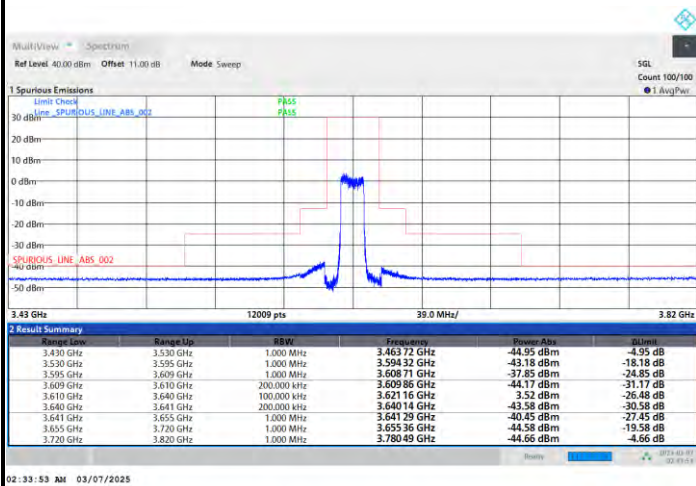




FR1 n48 / 15MHz / DFT-S OFDM / 16QAM

Middle Channel

Full RB

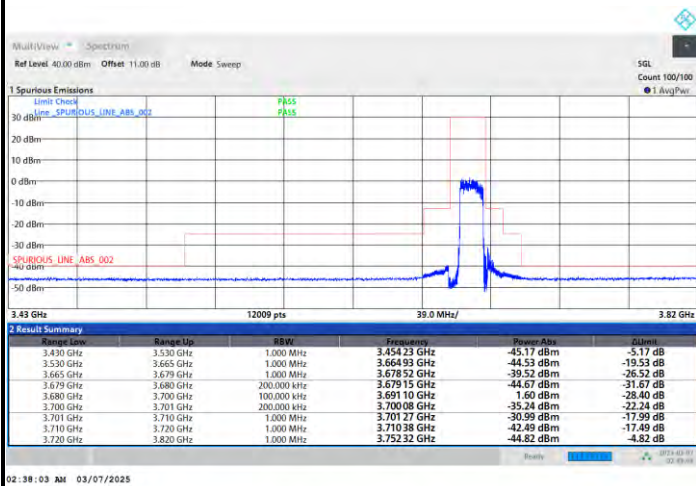




FR1 n48 / 15MHz / DFT-S OFDM / 16QAM

Highest Channel

Full RB

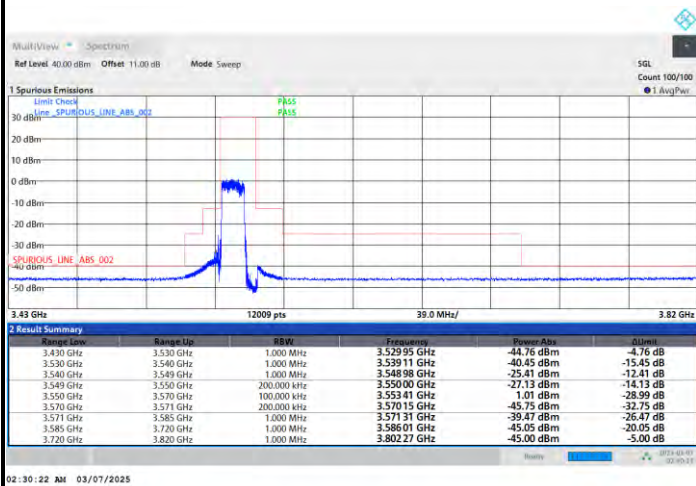




FR1 n48 / 15MHz / DFT-S OFDM / 64QAM

Lowest Channel

Full RB

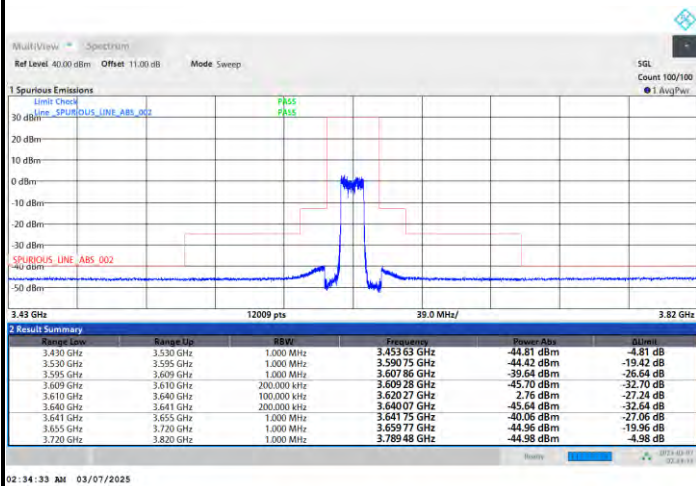




FR1 n48 / 15MHz / DFT-S OFDM / 64QAM

Middle Channel

Full RB

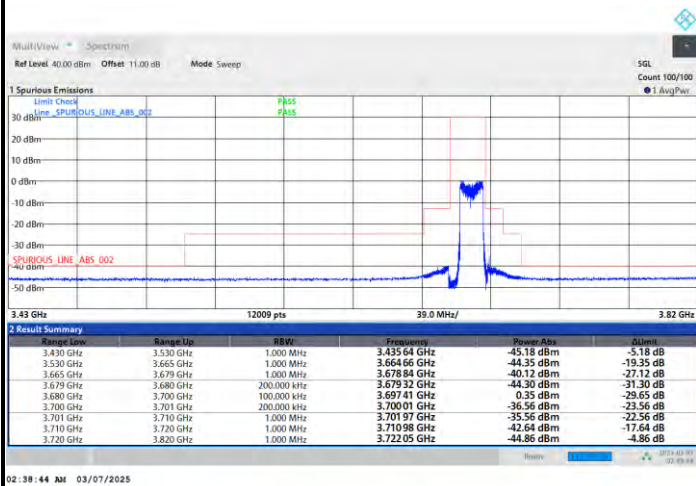




FR1 n48 / 15MHz / DFT-S OFDM / 64QAM

Highest Channel

Full RB

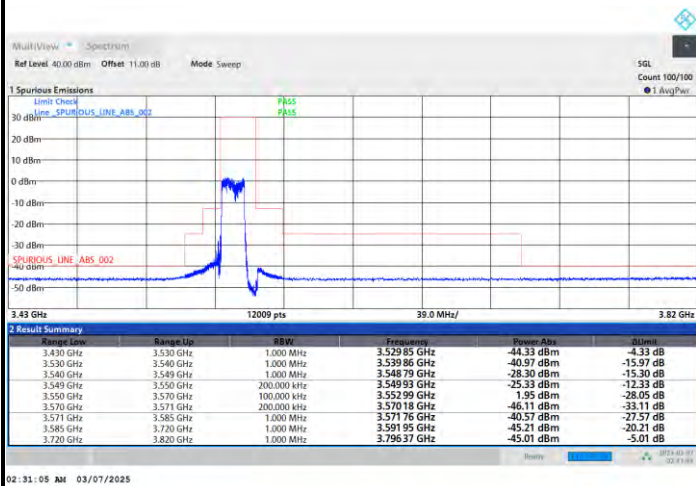




FR1 n48 / 15MHz / DFT-S OFDM / 256QAM

Lowest Channel

Full RB

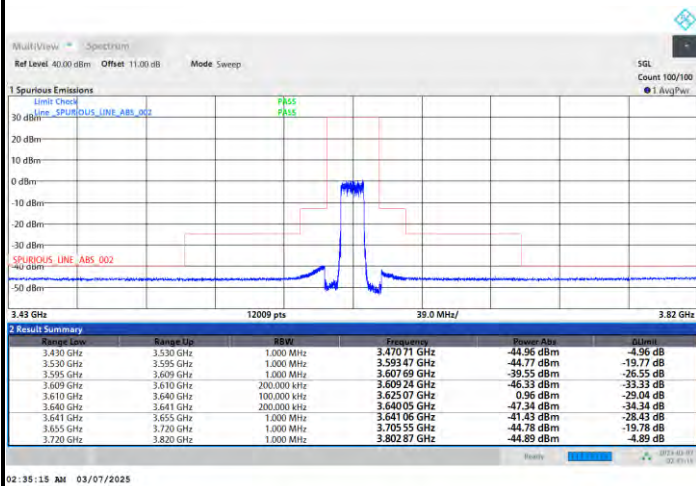




FR1 n48 / 15MHz / DFT-S OFDM / 256QAM

Middle Channel

Full RB

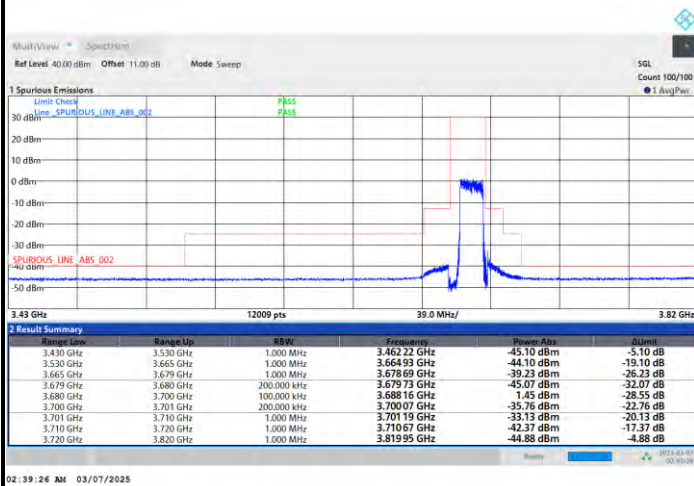




FR1 n48 / 15MHz / DFT-S OFDM / 256QAM

Highest Channel

Full RB

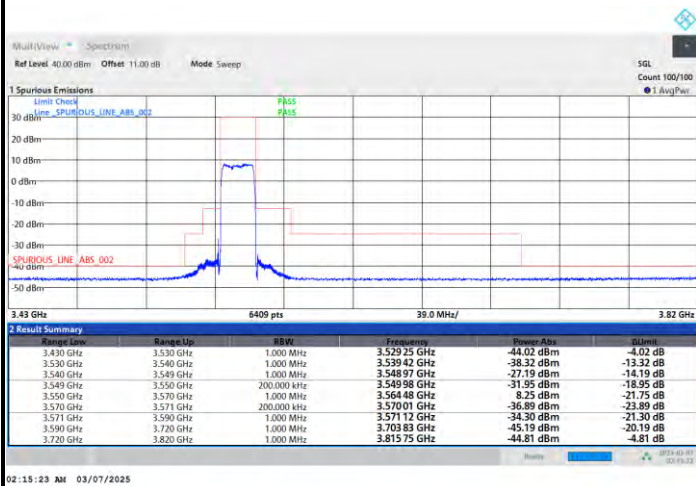




FR1 n48 / 20MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel

Full RB

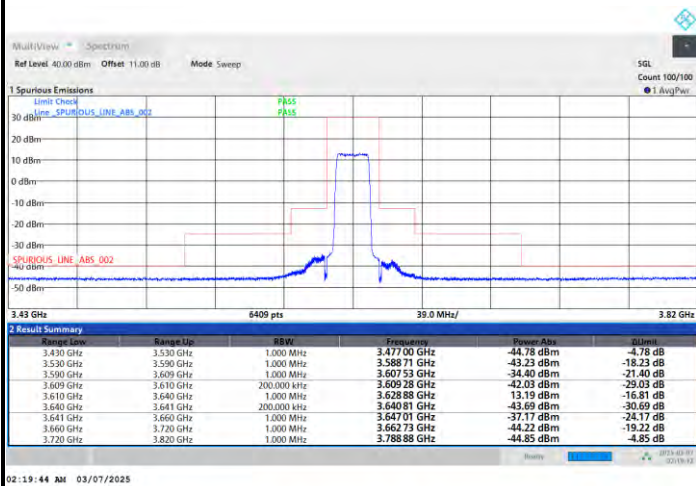




FR1 n48 / 20MHz / DFT-S OFDM / PI/2 BPSK

Middle Channel

Full RB

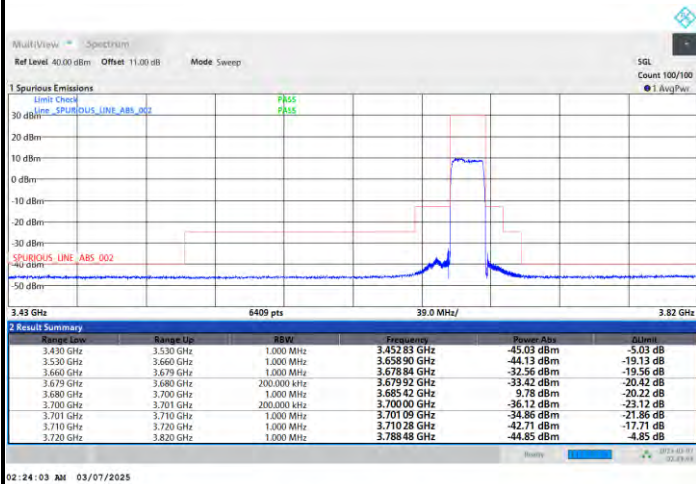




FR1 n48 / 20MHz / DFT-S OFDM / PI/2 BPSK

Highest Channel

Full RB

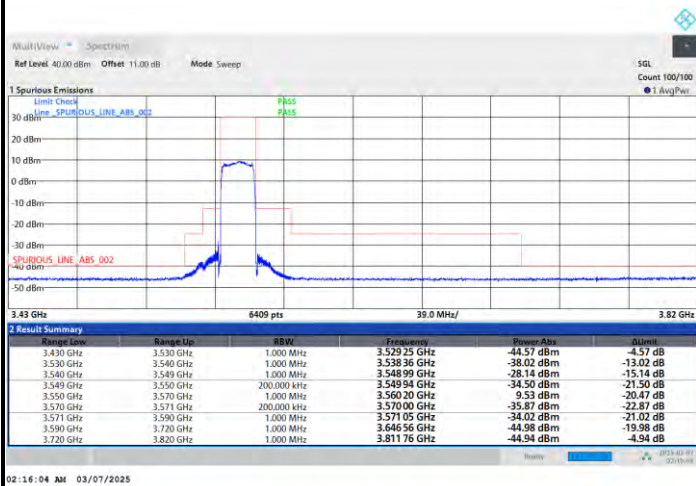




FR1 n48 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel

Full RB

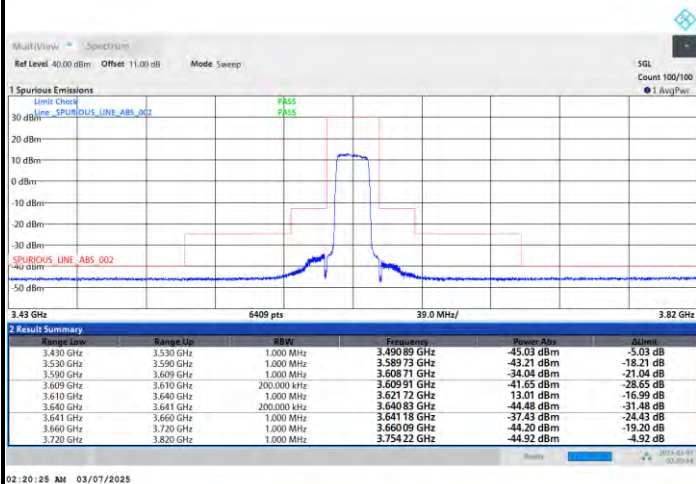




FR1 n48 / 20MHz / DFT-S OFDM / QPSK

Middle Channel

Full RB

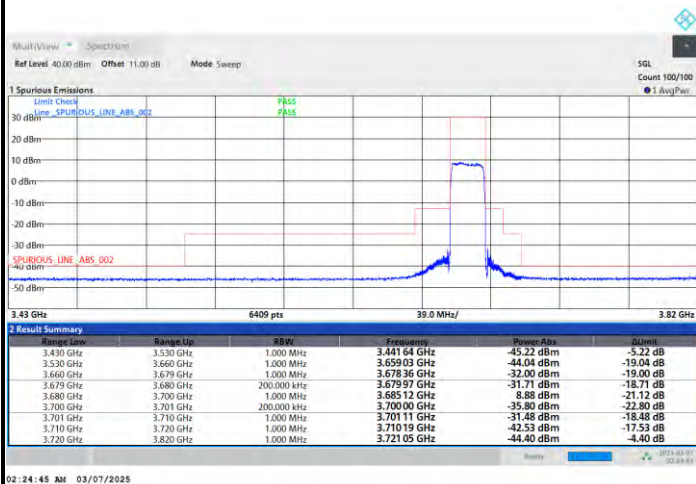




FR1 n48 / 20MHz / DFT-S OFDM / QPSK

Highest Channel

Full RB

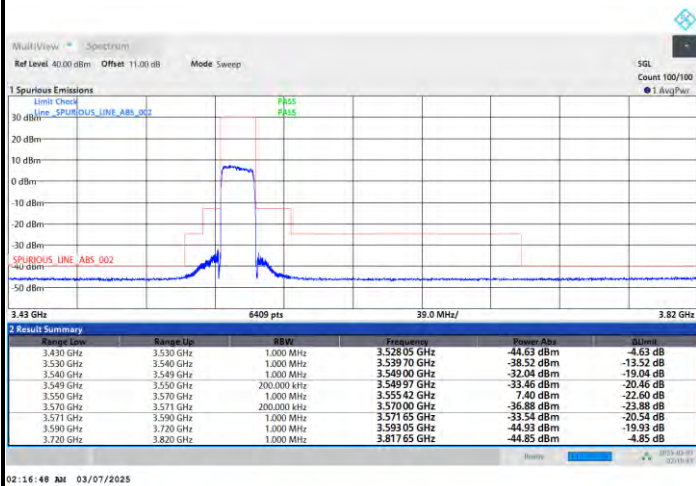




FR1 n48 / 20MHz / DFT-S OFDM / 16QAM

Lowest Channel

Full RB

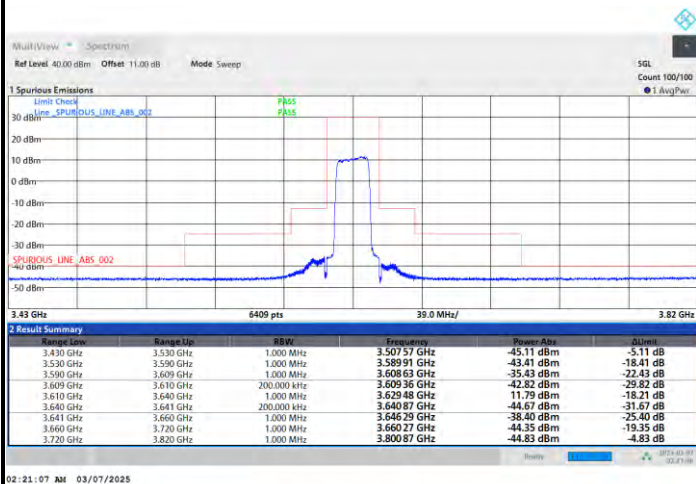




FR1 n48 / 20MHz / DFT-S OFDM / 16QAM

Middle Channel

Full RB

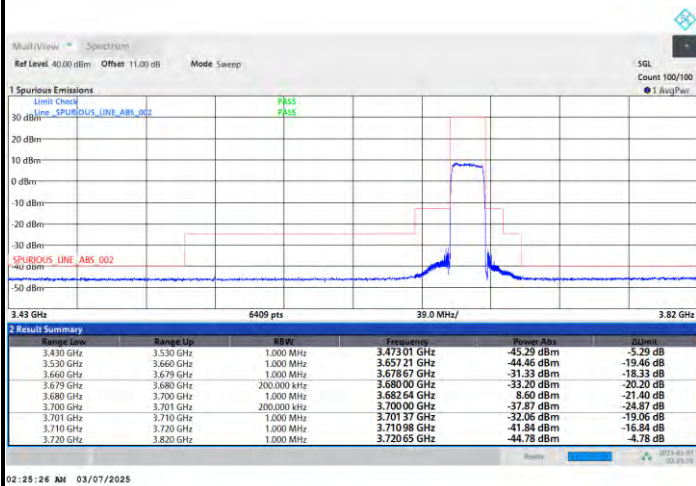




FR1 n48 / 20MHz / DFT-S OFDM / 16QAM

Highest Channel

Full RB

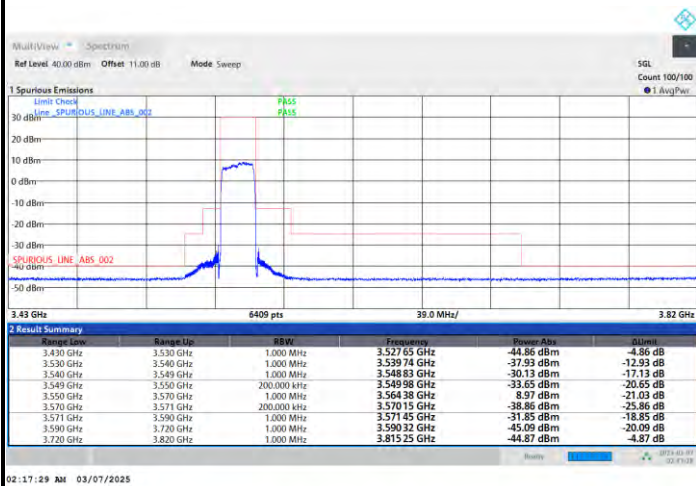




FR1 n48 / 20MHz / DFT-S OFDM / 64QAM

Lowest Channel

Full RB

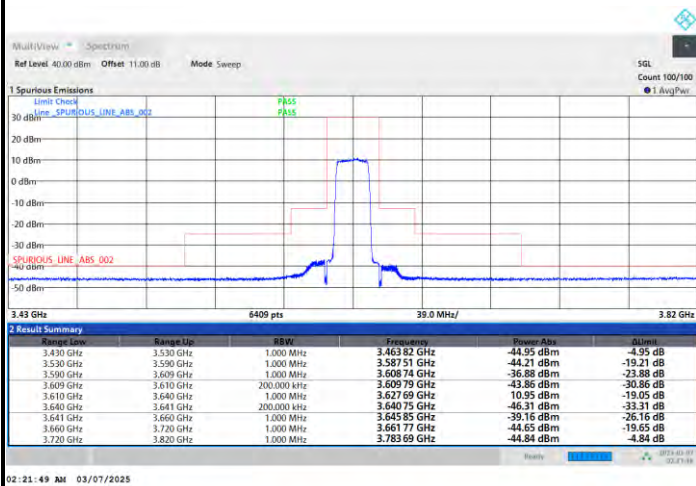




FR1 n48 / 20MHz / DFT-S OFDM / 64QAM

Middle Channel

Full RB

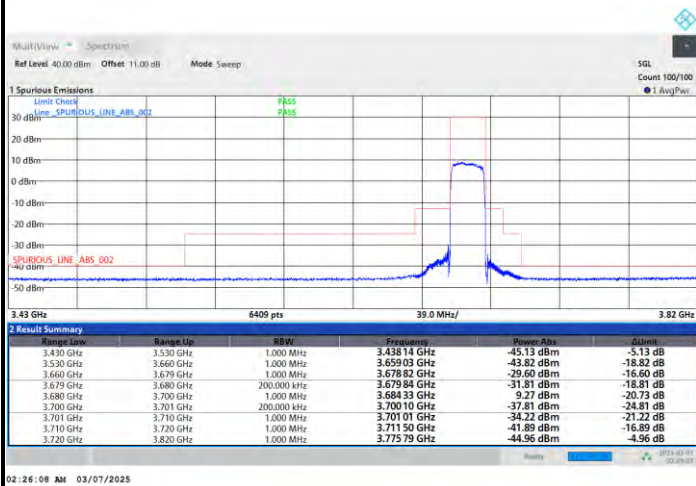




FR1 n48 / 20MHz / DFT-S OFDM / 64QAM

Highest Channel

Full RB

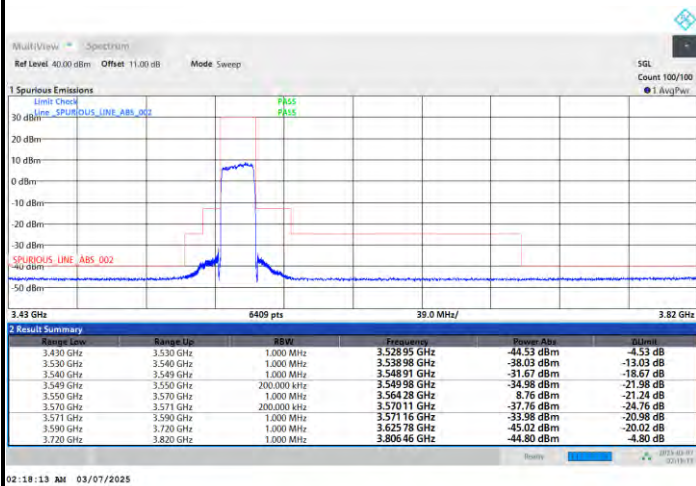




FR1 n48 / 20MHz / DFT-S OFDM / 256QAM

Lowest Channel

Full RB

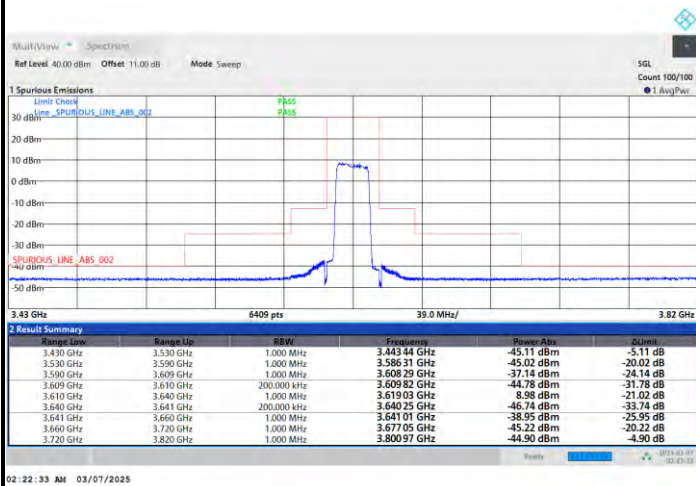




FR1 n48 / 20MHz / DFT-S OFDM / 256QAM

Middle Channel

Full RB

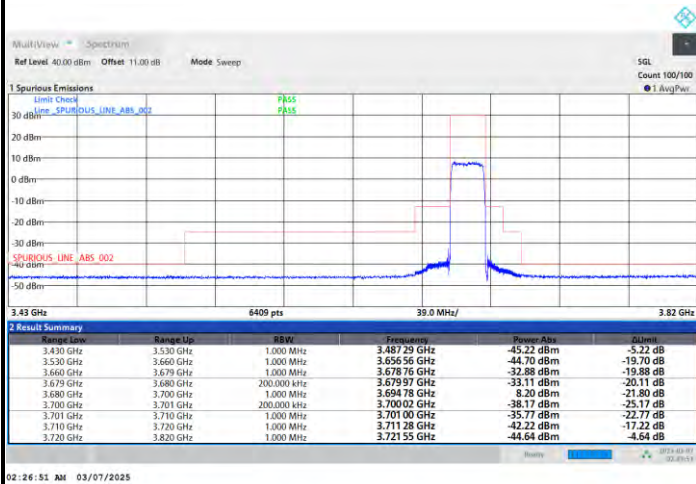




FR1 n48 / 20MHz / DFT-S OFDM / 256QAM

Highest Channel

Full RB

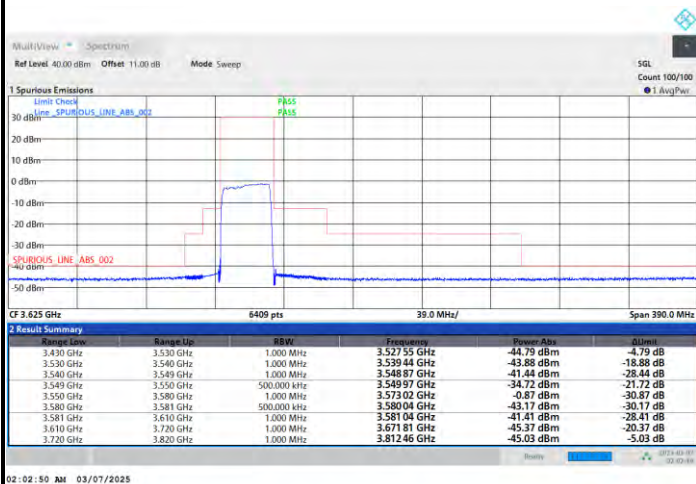




FR1 n48 / 30MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel

Full RB

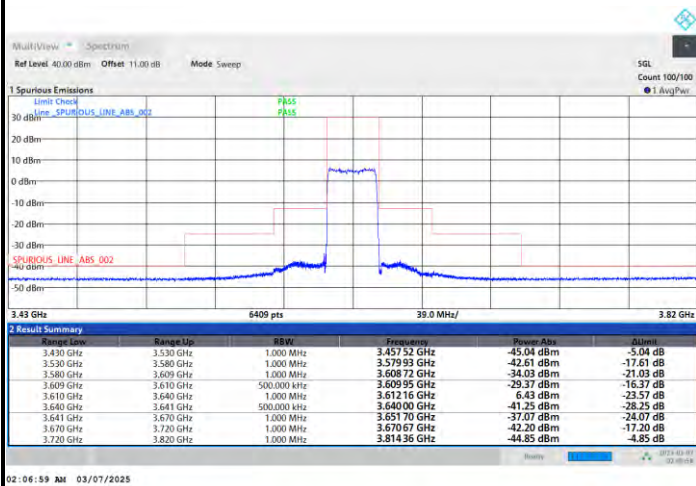




FR1 n48 / 30MHz / DFT-S OFDM / PI/2 BPSK

Middle Channel

Full RB

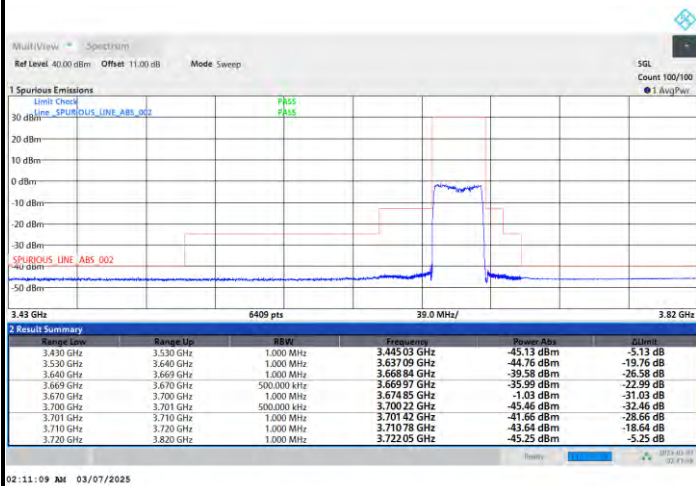




FR1 n48 / 30MHz / DFT-S OFDM / PI/2 BPSK

Highest Channel

Full RB

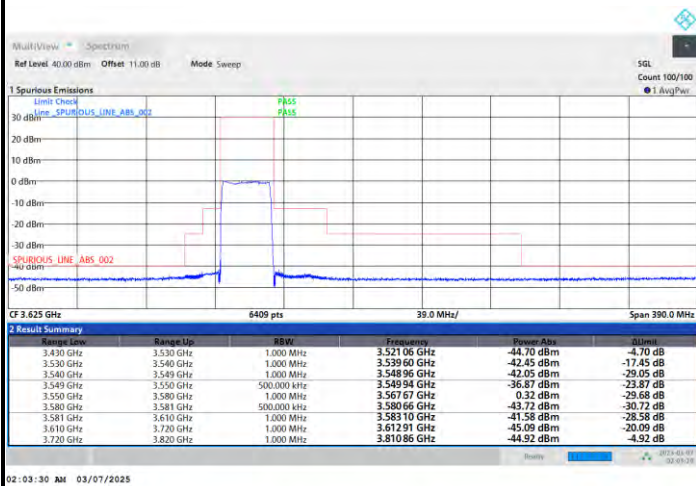




FR1 n48 / 30MHz / DFT-S OFDM / QPSK

Lowest Channel

Full RB

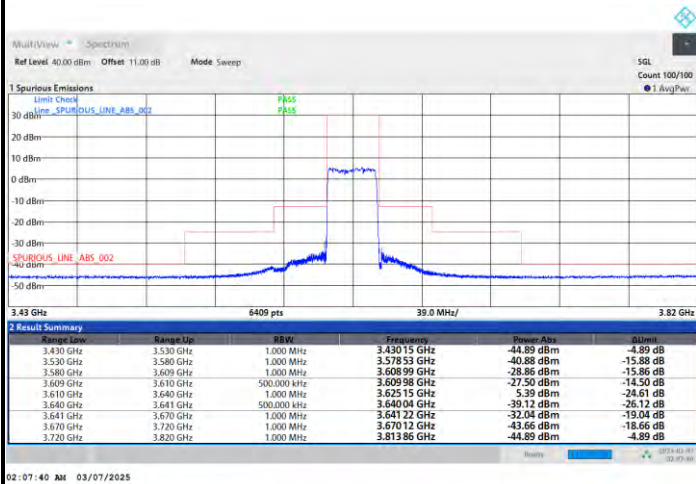




FR1 n48 / 30MHz / DFT-S OFDM / QPSK

Middle Channel

Full RB

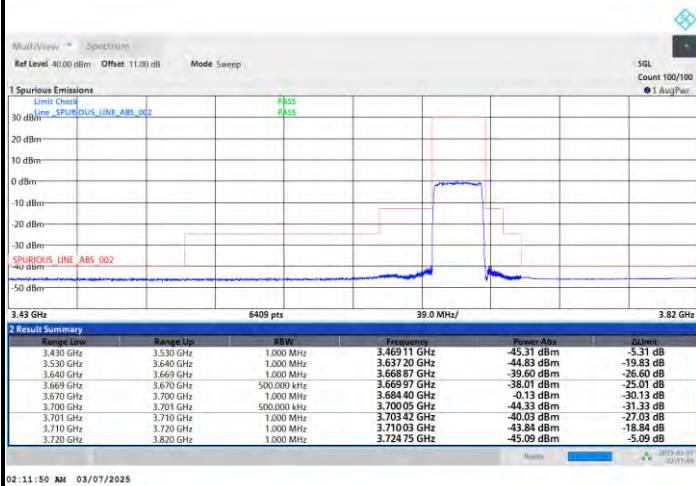




FR1 n48 / 30MHz / DFT-S OFDM / QPSK

Highest Channel

Full RB

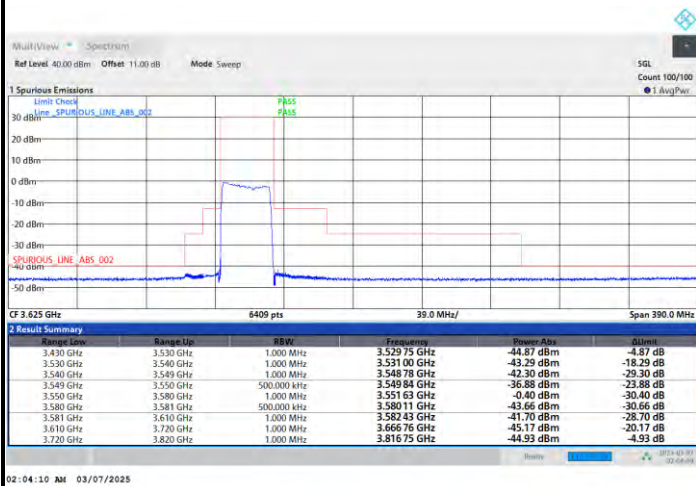




FR1 n48 / 30MHz / DFT-S OFDM / 16QAM

Lowest Channel

Full RB

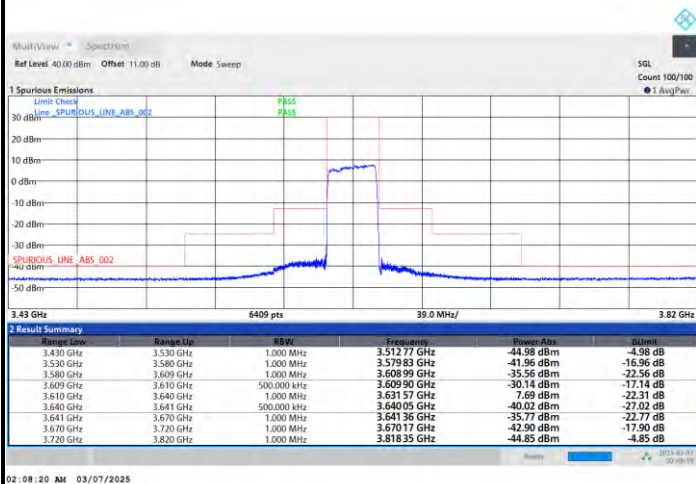




FR1 n48 / 30MHz / DFT-S OFDM / 16QAM

Middle Channel

Full RB

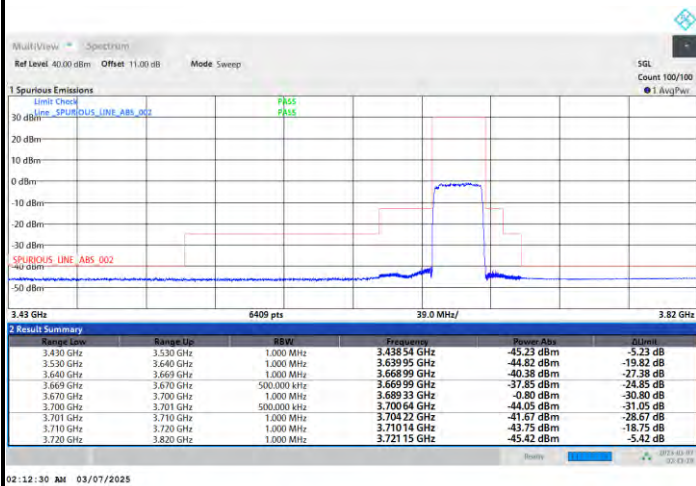




FR1 n48 / 30MHz / DFT-S OFDM / 16QAM

Highest Channel

Full RB

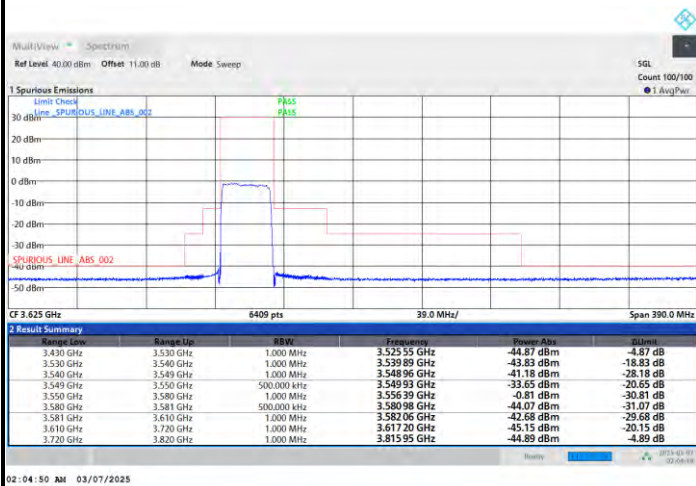




FR1 n48 / 30MHz / DFT-S OFDM / 64QAM

Lowest Channel

Full RB

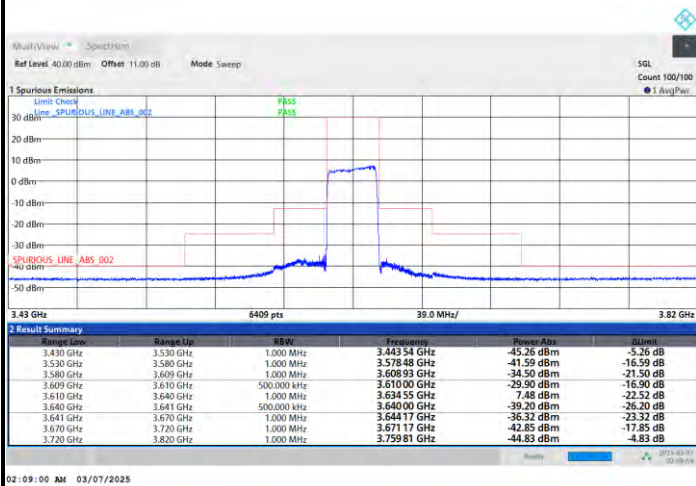




FR1 n48 / 30MHz / DFT-S OFDM / 64QAM

Middle Channel

Full RB

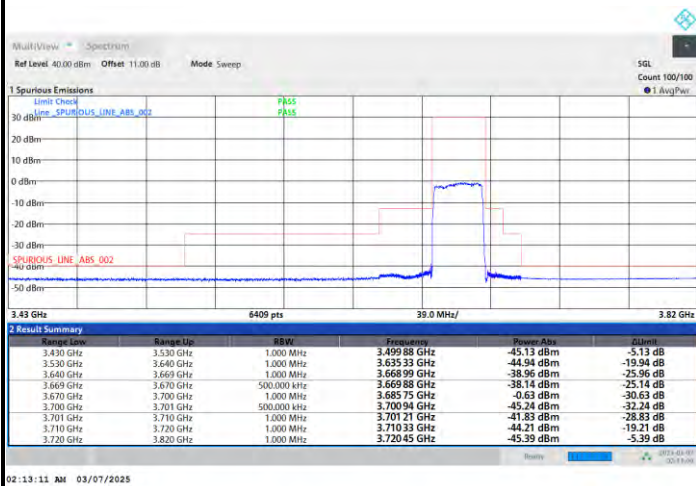




FR1 n48 / 30MHz / DFT-S OFDM / 64QAM

Highest Channel

Full RB

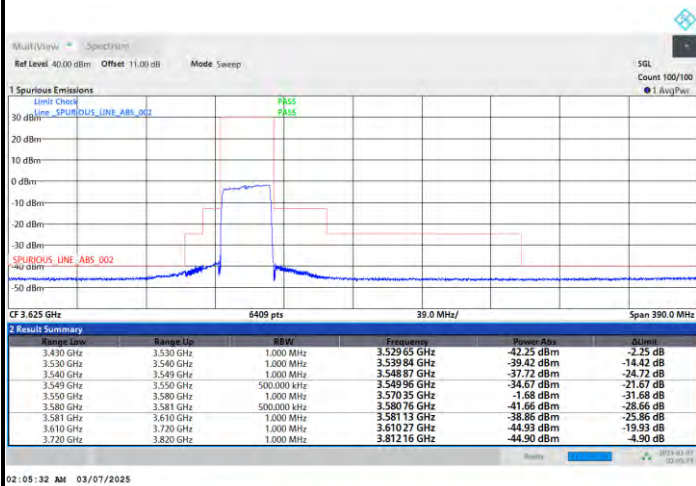




FR1 n48 / 30MHz / DFT-S OFDM / 256QAM

Lowest Channel

Full RB

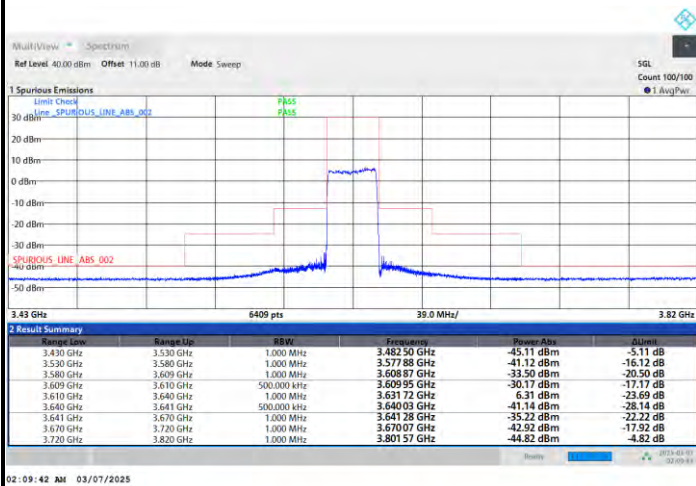




FR1 n48 / 30MHz / DFT-S OFDM / 256QAM

Middle Channel

Full RB

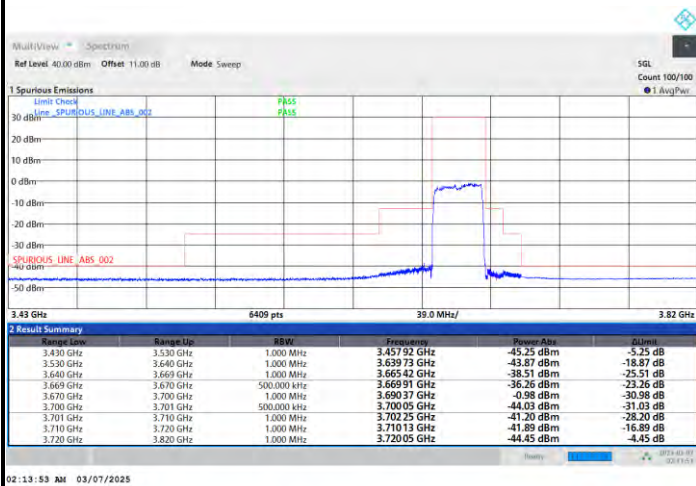




FR1 n48 / 30MHz / DFT-S OFDM / 256QAM

Highest Channel

Full RB

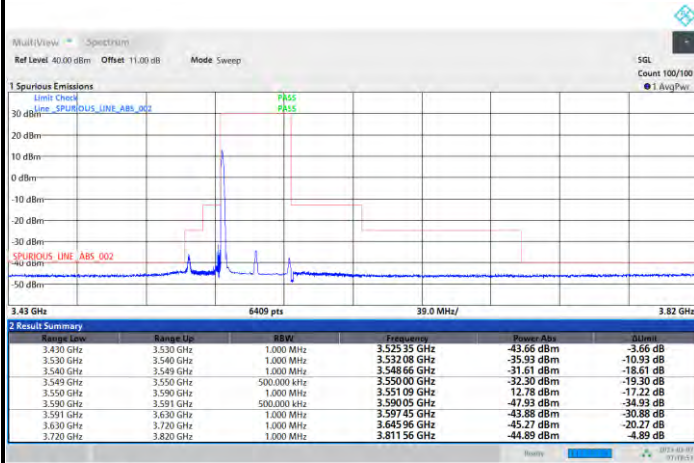




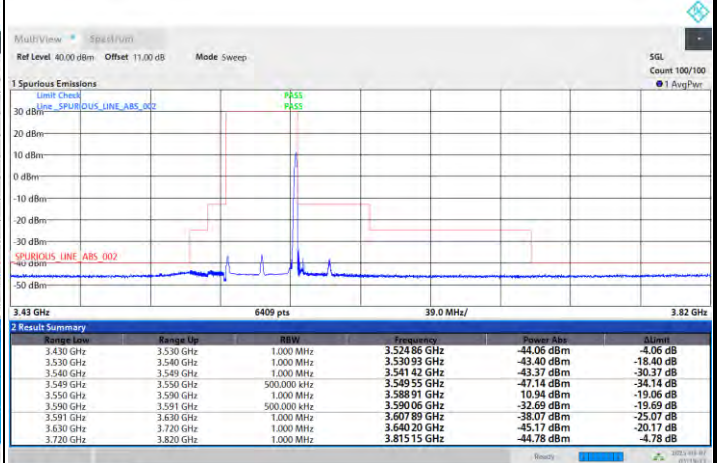
FR1 n48 / 40MHz / DFT-S OFDM / PI/2 BPSK

Lowest Channel

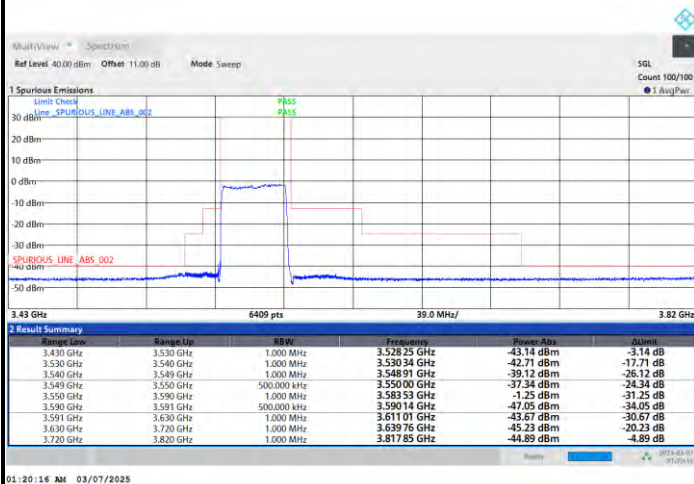
1RB0



1RBmax



Full RB

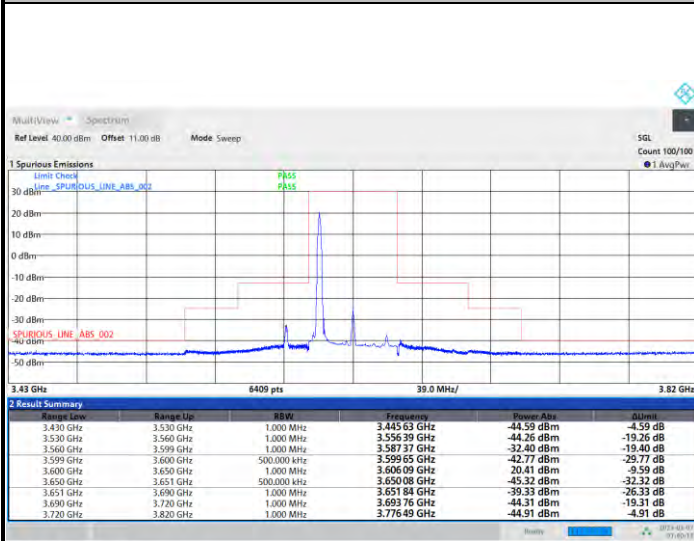




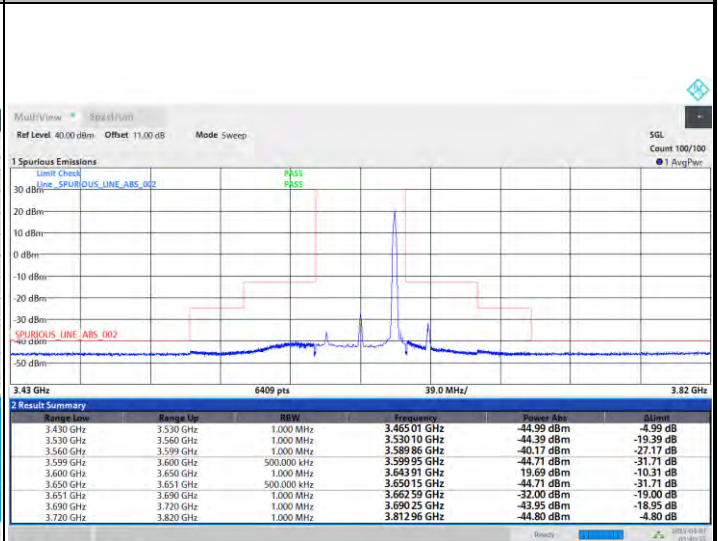
FR1 n48 / 40MHz / DFT-S OFDM / PI/2 BPSK

Middle Channel

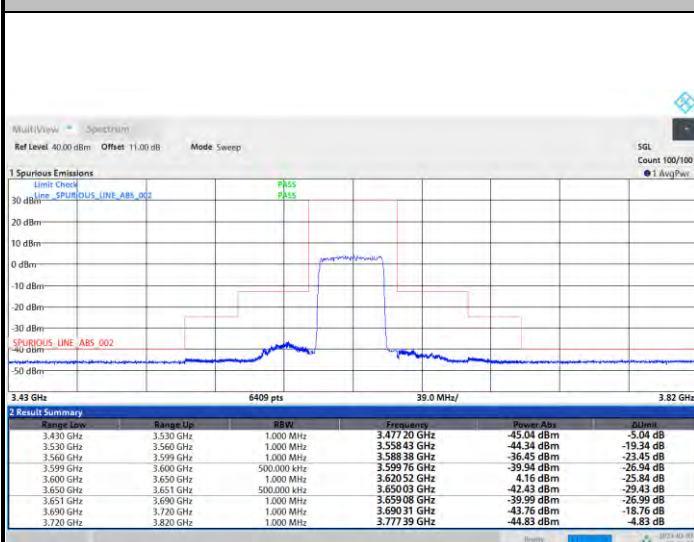
1RB0



1RBmax



Full RB

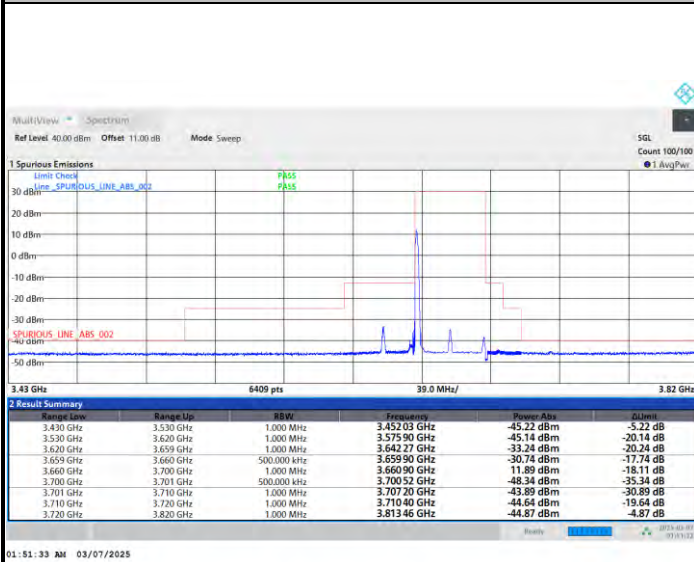




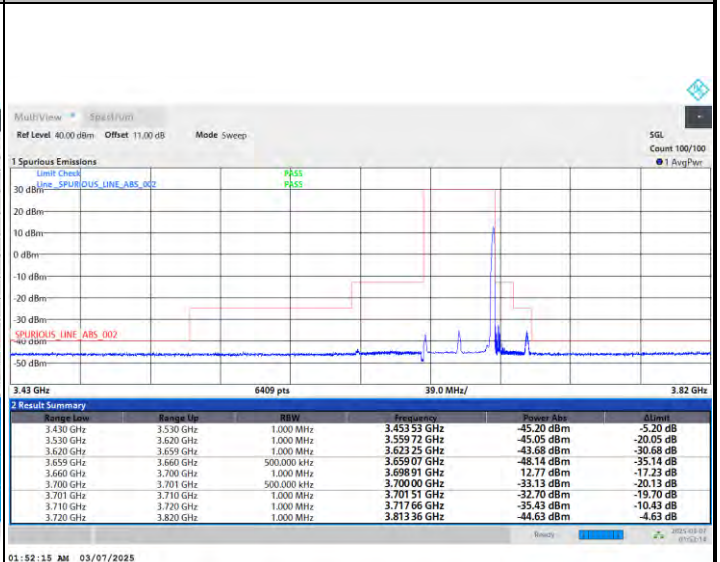
FR1 n48 / 40MHz / DFT-S OFDM / PI/2 BPSK

Highest Channel

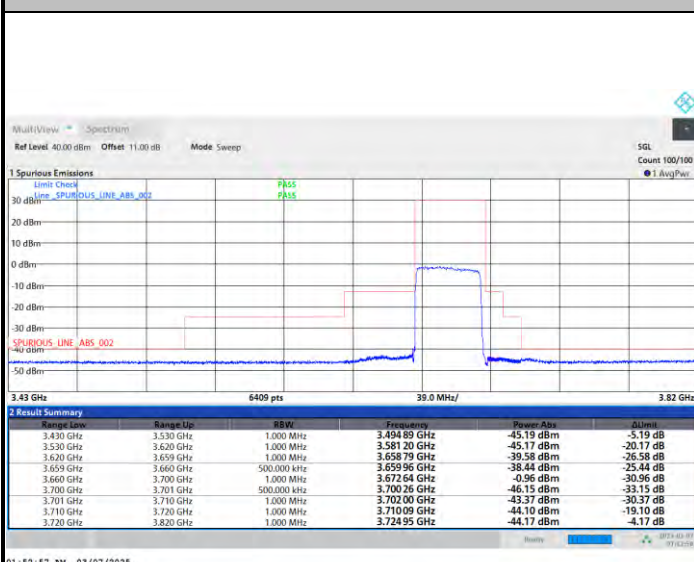
1RB0



1RBmax



Full RB

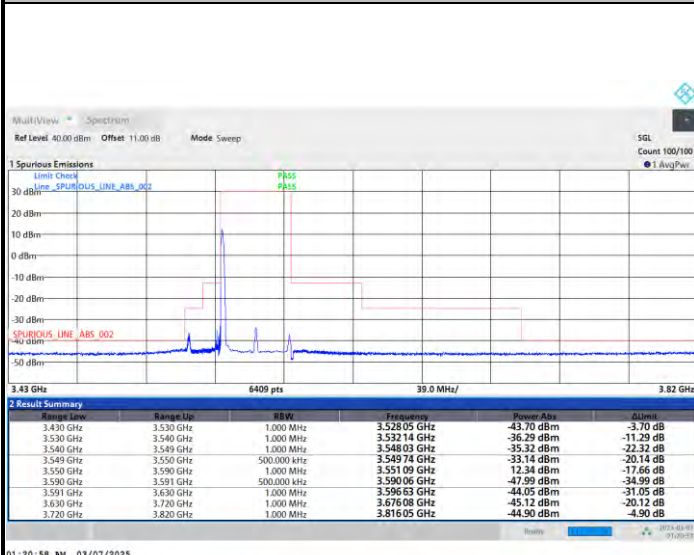




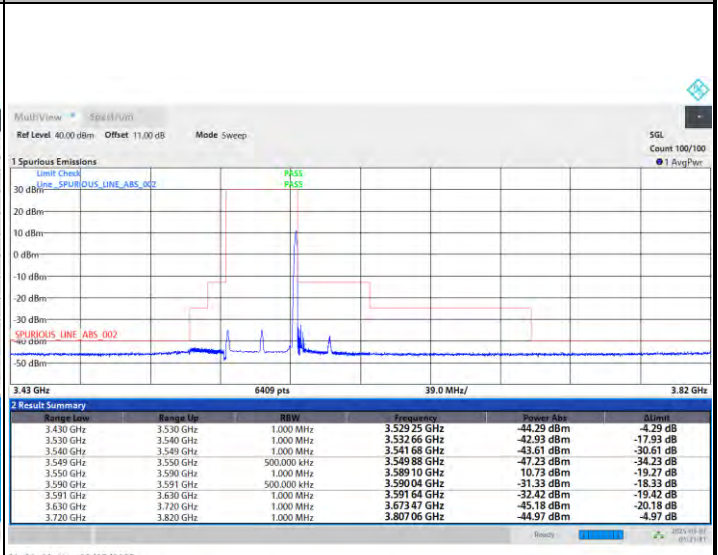
FR1 n48 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel

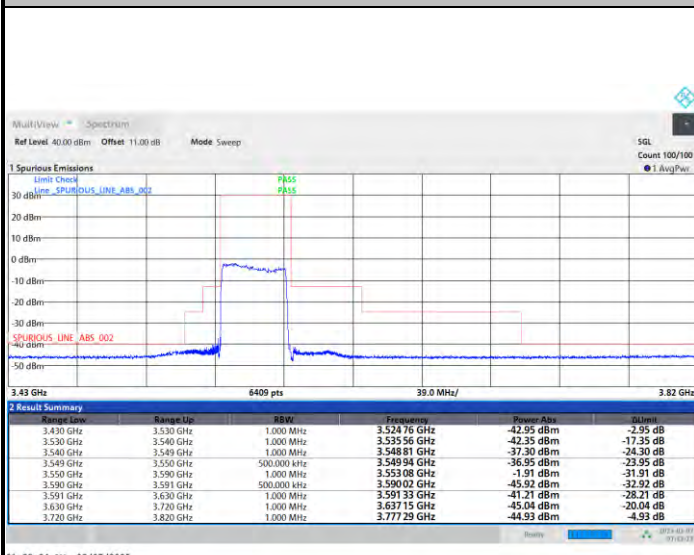
1RB0



1RBmax



Full RB

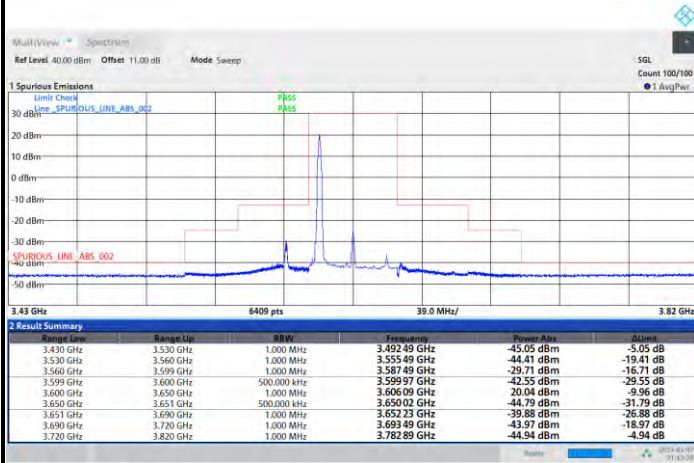




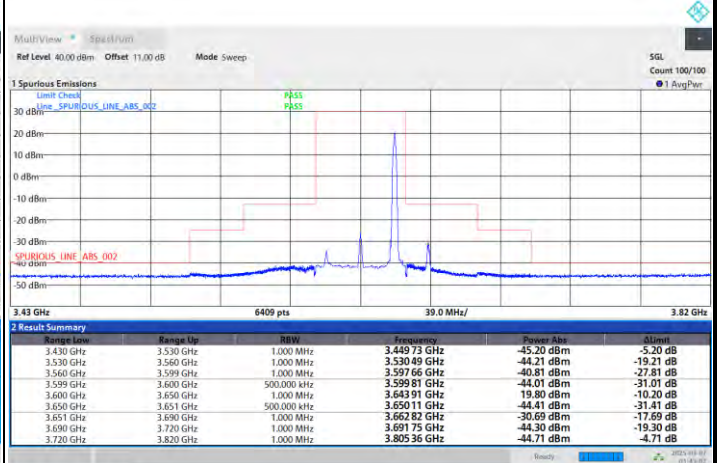
FR1 n48 / 40MHz / DFT-S OFDM / QPSK

Middle Channel

1RB0



1RBmax



Full RB

