



FCC RADIO TEST REPORT

FCC ID : ACJ9TGWW24B
Equipment : Radio Module
Brand Name : Panasonic
Model Name : WW24B
Applicant : Panasonic Corporation of North America
Two Riverfront Plaza, Newark, New Jersey, 07102-5490, USA
Standard : FCC 47 CFR Part 2, 96

The product was received on Mar. 16, 2026 and testing was performed from Mar. 18, 2026 to May 12, 2026. We, Sporton International Inc. Wensan 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 partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FG572316-01E	01	Initial issue of report	Jun. 16, 2026



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	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	-
4.2	§2.1053 §96.41	Radiated Spurious Emission	Pass	-

Remark:

1. For host device, Radiated Spurious Emission and Effective Radiated Power are verified and complies with the limit in this test report.
2. For host device, the Conducted Output Power is no difference after compared to module (Model: WW24B)

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.

Reviewed by: Keven Cheng

Report Producer: Shiori Chen



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs WCDMA/LTE/5G NR.	
Antenna Type WWAN Main/3rd/4th: PIFA Antenna Aux: Monopole Antenna	

Remark: The product was installed into Personal Computer (Brand Name: Panasonic, Model Name: FZ-34 during test.

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

TDD band Power Class				
	SISO PC3	MIMO PC3		
n48	V	V		

Max Antenna Gain information (dBi)							
Band	Ant 0 (WWAN-main)	Ant 1 (WWAN-3rd)	Ant 2 (WWAN-aux)	Ant 3 (WWAN-4th)	Main &ENDC Ant. #	MIMO Main Ant. #	SRS Ant. #
n48	1.95	2.25	0.36	2.40	3&1&2	-	0,1,2,3
n48_MIMO	1.95	2.25	0.36	2.40	-	3&1	3&1,0&2

Remark: The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.



1.3 Testing Site

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.	
	TH05-HY	03CH21-HY
Test Engineer	Howard Miao, Jimmy Cheng, Mike Yeh, and Kelvin Lu	Jack Cheng and Ray Lung
Temperature (°C)	20~24	18~26
Relative Humidity (%)	50~58	50~70

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

FCC Designation No.: 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 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 940660 D01 Part 96 CBRS Eqpt v03
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems

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 and Laptop /Tablet/Convertible mode and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and accessory (Keyboard), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

5G NR N48 SISO Mode

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	All	1, Half, Full	L, M, H
EIRP	A, B, C, D, E	All	1, Half, Full	L, M, H
RSE	A	20 MHz	1RB	L, M, H

Remark:

1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
2. 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.
3. For 5G NR N48 SISO Mode Modulation support CP-OFDM & DFT-s-OFDM, Therefore, the report only performed Higher Conducted power (DFT-s-OFDM) test results.
4. For 5G NR N48 support SISO Mode Antenna 3 (Main Ant.) and Antenna 0&1&2&3 (SRS Ant.), Radiated Spurious Emission is full test. Conducted test items are verified and the worst case is Antenna 3, Therefore, the report only performed Antenna 3 test results.

5G NR N48 MIMO Mode

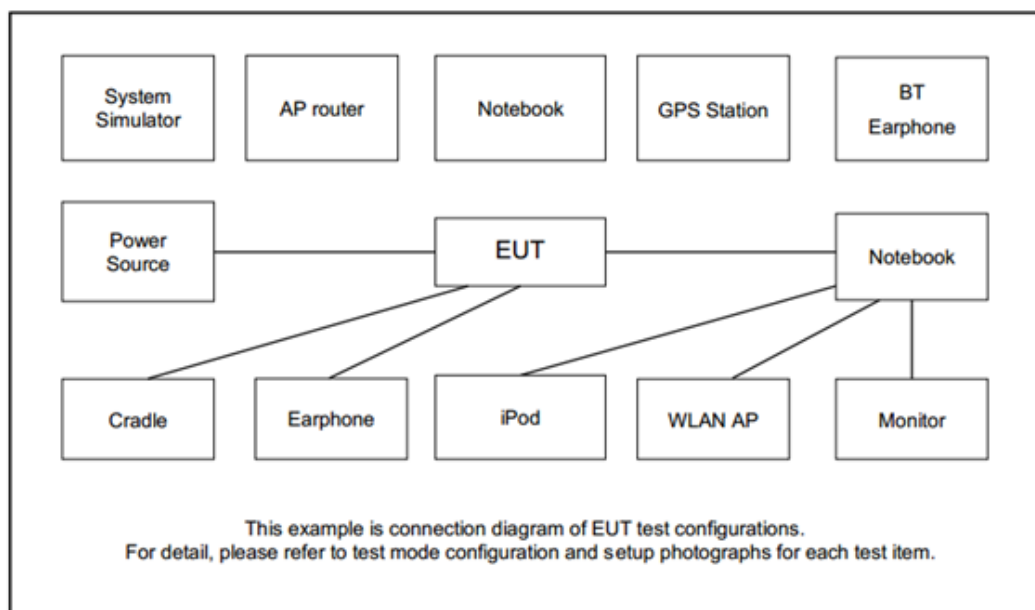
Modulation Type	Modulation	Modulation Type	Modulation
A	DFT-s-OFDM pi/2 BPSK	N/A	N/A
B	DFT-s-OFDM QPSK	F	CP-OFDM QPSK
C	DFT-s-OFDM 16QAM	G	CP-OFDM 16QAM
D	DFT-s-OFDM 64QAM	H	CP-OFDM 64QAM
E	DFT-s-OFDM 256QAM	I	CP-OFDM 256QAM

Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	F,G,H,I	All	1, Half, Full	L, M, H
EIRP	F,G,H,I	All	1, Half, Full	L, M, H
PAR	F,G,H,I	20 MHz	Full	M
Bandwidth	F,G	All	Full	M
ACLR, Mask	F,G	All	1RB Full	L, M, H
CSE	F	All	1RB	L, M, H
Frequency Stability	F	10 MHz	Full	M
RSE	F	20 MHz	1RB	L, M, H

Remark:

1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types.
2. 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.
3. One representative bandwidth is selected to perform PAR& frequency stability.
4. For 5G NR N48 MIMO Mode Modulation support CP-OFDM only
5. For 5G NR N48 support MIMO Mode Antenna 3+1 (Main Ant.) and Antenna 0+2 (SRS Ant.); Radiated Spurious Emission is full test. Conducted test items are verified and the worst case is Antenna 3+1 ,Therefore, the report only performed Antenna 3+1 test results.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Base Station	Anritsu	MT8820C	N/A	N/A	N/A
2.	Base Station	Anritsu	MT8821C	N/A	N/A	N/A
3.	Base Station	Anritsu	MT8000A	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 4.5 dB and 10dB attenuator.

Example :

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

$$= 4.5 + 10 = 14.5 \text{ (dB)}$$



2.5 Frequency List of Low/Middle/High Channels

5G NR Band 48 Channel and Frequency List (Part96)				
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

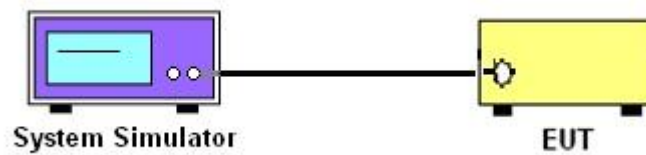
3 Conducted Test Items

3.1 Measuring Instruments

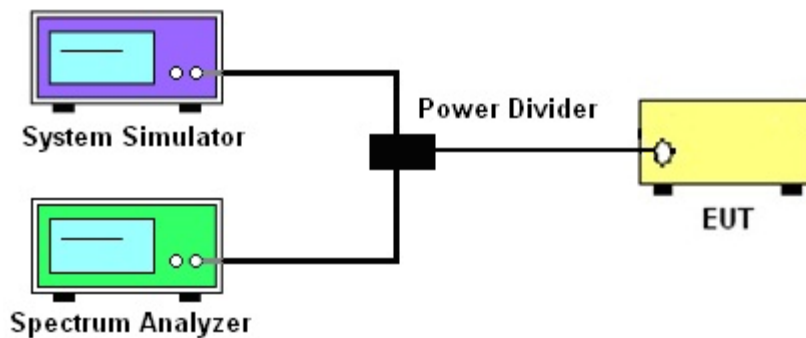
See list of measuring instruments of this test report.

3.1.1 Test Setup

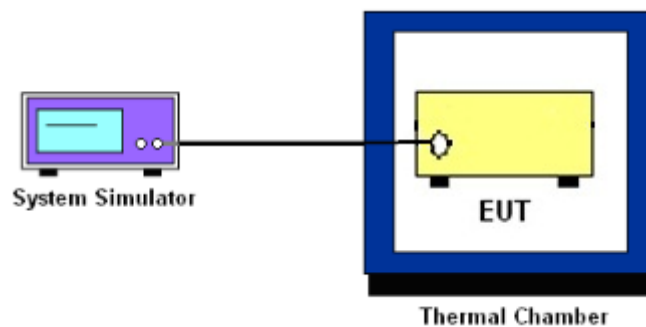
3.1.2 Conducted Output Power



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 and Power Density 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,

$EIRP = P_T + G_T - LC$, where

P_T = transmitter output power in dBm

G_T = 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
Category A CBSD	30	20
Category B CBSD	47	37

Remark: Total channel power is complied with EIRP limit 23dBm/10MHz.

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.

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 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.



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.

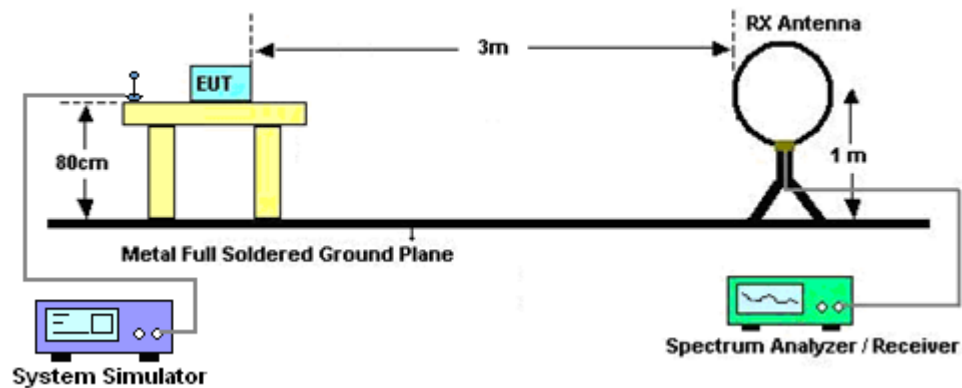
4 Radiated Test Items

4.1 Measuring Instruments

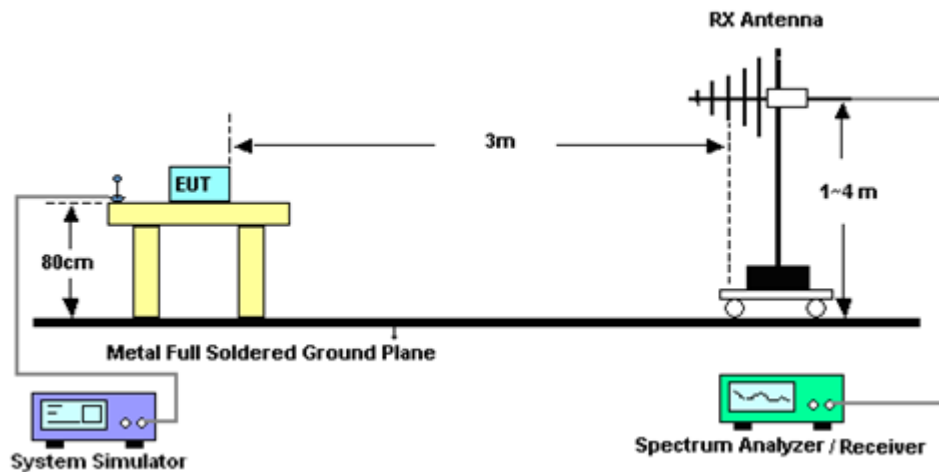
See list of measuring instruments of this test report.

4.1.1 Test Setup

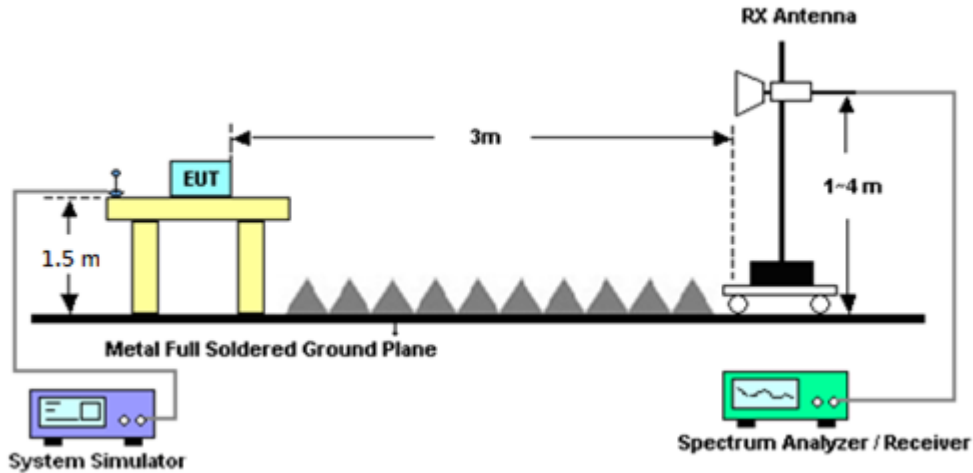
For radiated test below 30MHz



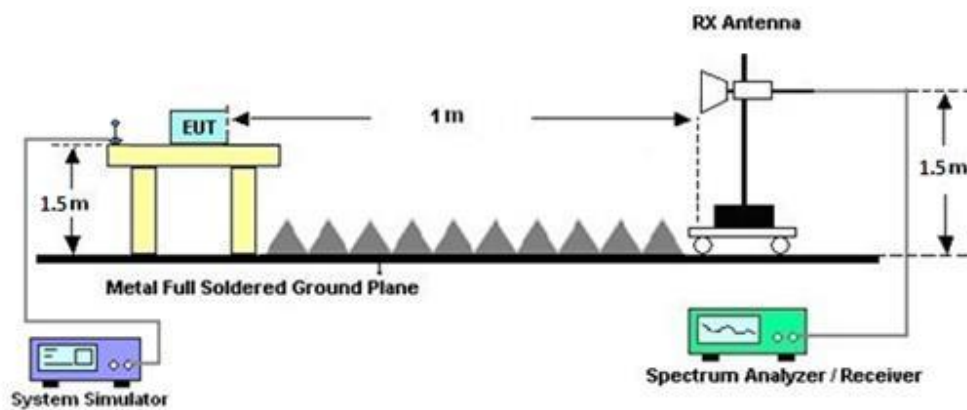
For radiated test from 30MHz to 1GHz



For radiated emissions from 1GHz to 18GHz



For radiated emissions above 18GHz



4.1.2 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.



4.2 Radiated Spurious Emission

4.2.1 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.

4.2.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.7 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. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. 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
7. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
8. ERP (dBm) = EIRP (dBm) - 2.15
9. 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
LOOP Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 11, 2025	Apr. 01, 2026~ May 12, 2026	Dec. 10, 2026	Radiation (03CH21-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63303 & 001	30MHz~1GHz	Nov. 26, 2025	Apr. 01, 2026~ May 12, 2026	Nov. 25, 2026	Radiation (03CH21-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C03A1 8EN	1GHz~18GHz	Aug. 07, 2025	Apr. 01, 2026~ May 12, 2026	Aug. 06, 2026	Radiation (03CH21-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1223	18GHz~40GHz	Jul. 02, 2025	Apr. 01, 2026~ May 12, 2026	Jul. 01, 2026	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	421580	30MHz~1GHz	Jul. 13, 2025	Apr. 01, 2026~ May 12, 2026	Jul. 12, 2026	Radiation (03CH21-HY)
Amplifier	EMEC	EM01G18GA	060876	1GHz~18GHz	Sep. 26, 2025	Apr. 01, 2026~ May 12, 2026	Sep. 25, 2026	Radiation (03CH21-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Aug. 26, 2025	Apr. 01, 2026~ May 12, 2026	Aug. 25, 2026	Radiation (03CH21-HY)
EXA Signal Analyzer	Keysight	N9010B	MY621703 58	10Hz~44GHz	Sep. 09, 2025	Apr. 01, 2026~ May 12, 2026	Sep. 08, 2026	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 04, 2026	Apr. 01, 2026~ May 12, 2026	Mar. 03, 2027	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804397/2,8 04612/2,80 3954/2	30MHz~40GHz	Aug. 11, 2025	Apr. 01, 2026~ May 12, 2026	Aug. 10, 2026	Radiation (03CH21-HY)
RF Cable	EMCI	EMC101Y-KM -KM-1000	240906	30MHz~40GHz	Oct. 21, 2025	Apr. 01, 2026~ May 12, 2026	Oct. 20, 2026	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP211568	N/A	Oct. 21, 2025	Apr. 01, 2026~ May 12, 2026	Oct. 20, 2026	Radiation (03CH21-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Apr. 01, 2026~ May 12, 2026	N/A	Radiation (03CH21-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1~4m	N/A	Apr. 01, 2026~ May 12, 2026	N/A	Radiation (03CH21-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Apr. 01, 2026~ May 12, 2026	N/A	Radiation (03CH21-HY)
Software	Audix	E3 6.2009-8-24	RK-00105 3	N/A	N/A	Apr. 01, 2026~ May 12, 2026	N/A	Radiation (03CH21-HY)
DC Power Supply	GW Instek	GPE-2323	GET91089 6	0V~64V ;0A~6A	Dec. 15, 2025	Mar. 18, 2026~ May 03, 2026	Dec. 14, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101691	10Hz~44GHz	Oct. 15, 2025	Mar. 18, 2026~ May 03, 2026	Oct. 14, 2026	Conducted (TH05-HY)
Temperature Chamber	ESPEC	SU-242	93000763	-30°C ~90°C	Jan. 05, 2026	Mar. 18, 2026~ May 03, 2026	Jan. 04, 2027	Conducted (TH05-HY)
Hygrometer	TECPEL	DTM-303B	TP200886	NA	Mar. 04, 2026	Mar. 18, 2026~ May 03, 2026	Mar. 03, 2027	Conducted (TH05-HY)
Base Station (Measure)	Anritsu	MT8000A	626218634 2	FR1	Nov. 03, 2025	Mar. 18, 2026~ May 03, 2026	Nov. 03, 2026	Conducted (TH05-HY)
Signal Generator	Anritsu	MG3694C	163401	8MHz~40GHz	Jan. 22, 2026	Mar. 18, 2026~ May 03, 2026	Jan. 21, 2027	Conducted (TH05-HY)
Power divider	MVE	MVE8283	F201918	9KHz~40GHz	Dec. 31, 2025	Mar. 18, 2026~ May 03, 2026	Dec. 30, 2026	Conducted (TH05-HY)
RF Cable	MVE	MCBL-LL403 P.50	E80005C	9KHz~40GHz	Aug. 01, 2025	Mar. 18, 2026~ May 03, 2026	Jul. 31, 2026	Conducted (TH05-HY)
Software 1	Sporton	FCC 5GNR Test Tools Ver1.0	N/A	Conducted Test Item	N/A	Mar. 18, 2026~ May 03, 2026	N/A	Conducted (TH05-HY)



6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.4 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 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 = 2.4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	16.37	16.60	16.67	19.17	0.0826		
10	1	22		16.35	16.73	16.71				
10	12	6		16.41	16.66	16.73				
10	1	0		15.98	16.28	16.29				
10	1	23		15.90	16.23	16.34				
10	24	0		16.04	16.35	16.42				
10	1	1	QPSK	16.36	16.62	16.65				
10	1	22		16.37	16.57	16.73				
10	12	6		16.40	16.65	16.77				
10	1	0		15.45	15.75	15.83				
10	1	23		15.40	15.70	15.85				
10	24	0		15.52	15.83	15.93				
10	1	1	16-QAM	15.38	15.64	15.74	18.14	0.0652		
10	1	1	64-QAM	13.99	14.27	14.38				
10	1	1	256-QAM	12.03	12.33	12.45				
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 = 2.4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	16.59	16.78	16.75	19.27	0.0845		
15	1	36		16.64	16.74	16.83				
15	18	9		16.57	16.80	16.87				
15	1	0		16.19	16.42	16.33				
15	1	37		16.16	16.37	16.46				
15	36	0		16.28	16.49	16.41				
15	1	1	QPSK	16.53	16.75	16.70				
15	1	36		16.59	16.72	16.77				
15	18	9		16.60	16.86	16.82				
15	1	0		15.70	15.92	15.80				
15	1	37		15.63	15.90	15.90				
15	36	0		15.75	15.97	15.87				
15	1	1	16-QAM	15.64	15.80	15.70	18.20	0.0661		
15	1	1	64-QAM	14.29	14.41	14.35				
15	1	1	256-QAM	12.29	12.45	12.38				
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 = 2.4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	16.59	16.83	16.76	19.25	0.0841		
20	1	49		16.61	16.74	16.75				
20	25	12		16.72	16.85	16.76				
20	1	0		16.28	16.46	16.31				
20	1	50		16.16	16.38	16.43				
20	50	0		16.30	16.47	16.45				
20	1	1	QPSK	16.59	16.77	16.73				
20	1	49		16.60	16.70	16.74				
20	25	12		16.67	16.82	16.76				
20	1	0		15.76	15.91	15.79				
20	1	50		15.68	15.86	15.86				
20	50	0		15.81	15.98	15.94				
20	1	1	16-QAM	15.54	15.86	15.72	18.26	0.0670		
20	1	1	64-QAM	14.28	14.57	14.40				
20	1	1	256-QAM	12.37	12.49	12.33				
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 = 2.4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
30	1	1	PI/2 BPSK	16.58	17.01	16.97	19.41	0.0873		
30	1	76		16.58	16.73	16.83				
30	36	18		16.70	16.86	16.82				
30	1	0		16.24	16.65	16.65				
30	1	77		16.23	16.58	16.44				
30	75	0		16.20	16.55	16.58				
30	1	1	QPSK	16.51	16.89	16.93				
30	1	76		16.52	16.75	16.83				
30	36	18		16.51	16.88	16.80				
30	1	0		15.63	16.10	16.11				
30	1	77		15.72	15.85	15.93				
30	75	0		15.67	16.08	16.07				
30	1	1	16-QAM	15.59	15.93	16.01	18.41	0.0693		
30	1	1	64-QAM	14.35	14.68	14.63				
30	1	1	256-QAM	12.25	12.64	12.66				
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 = 2.4 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	16.64	16.96	16.91	19.36	0.0863		
40	1	104		16.79	16.90	16.96				
40	50	25		16.73	16.92	16.84				
40	1	0		16.36	16.53	16.59				
40	1	105		16.50	16.56	16.53				
40	100	0		16.33	16.62	16.54				
40	1	1	QPSK	16.63	16.93	16.89				
40	1	104		16.81	16.86	16.92				
40	50	25		16.73	16.87	16.79				
40	1	0		15.82	16.02	16.10				
40	1	105		16.00	16.06	16.02				
40	100	0		15.82	16.11	16.04				
40	1	1	16-QAM	15.65	15.96	15.97	18.37	0.0687		
40	1	1	64-QAM	14.35	14.60	14.55				
40	1	1	256-QAM	12.35	12.55	12.62				
Limit	EIRP < 23dBm/10MHz			Result			Pass			

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

Conducted Output Power(Average power and ERP/EIRP)

NR n48 Maximum Average Power [dBm] (GT - LC = 2.4 dB)														
BW	RB	RB	Mod	Antenna 3			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	12.07	12.27	12.41	11.63	12.06	12.10	14.87	15.18	15.27	17.83	0.0607
10	1	22		12.16	12.52	12.58	11.71	12.20	12.26	14.95	15.37	15.43		
10	12	6		12.01	12.40	12.42	11.64	12.12	12.14	14.84	15.27	15.29		
10	1	0		10.62	10.95	11.14	10.18	10.60	10.68	13.42	13.79	13.93		
10	1	23		10.50	10.87	11.01	10.21	10.50	10.58	13.37	13.70	13.81		
10	24	0		10.55	10.88	11.02	10.18	10.60	10.65	13.38	13.75	13.85		
10	1	1	16-QAM	11.57	11.98	11.91	11.36	11.67	11.72	14.48	14.84	14.83	17.24	0.0530
10	1	1	64-QAM	10.08	10.52	10.43	9.52	10.08	10.10	12.82	13.32	13.28		
10	1	1	256-QAM	7.12	7.47	7.53	6.58	6.99	7.05	9.87	10.25	10.31		
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 = 2.4 dB)														
BW	RB	RB	Mod	Antenna 3			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
15	1	1	QPSK	12.32	12.40	12.67	11.95	12.16	12.28	15.15	15.29	15.49	17.89	0.0615
15	1	36		12.43	12.60	12.50	11.99	12.27	12.10	15.23	15.45	15.31		
15	19	9		12.27	12.54	12.49	11.94	12.19	12.21	15.12	15.38	15.36		
15	1	0		10.82	11.16	10.88	10.40	10.76	10.72	13.63	13.97	13.81		
15	1	37		10.83	11.04	11.26	10.43	10.68	10.70	13.64	13.87	14.00		
15	38	0		10.73	10.94	10.88	10.42	10.71	10.70	13.59	13.84	13.80		
15	1	1	16-QAM	11.90	12.12	12.05	11.49	11.83	11.99	14.71	14.99	15.03	17.43	0.0553
15	1	1	64-QAM	10.38	10.59	10.50	9.85	10.23	10.03	13.13	13.42	13.28		
15	1	1	256-QAM	7.41	7.53	7.62	6.73	7.15	7.13	10.09	10.35	10.39		
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 = 2.4 dB)														
BW	RB	RB	Mod	Antenna 3			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	12.38	12.55	12.36	12.03	12.29	12.19	15.22	15.43	15.29	17.83	0.0607
20	1	49		12.39	12.39	12.57	12.03	12.19	12.04	15.22	15.30	15.32		
20	25	12		12.31	12.45	12.38	11.97	12.18	12.09	15.15	15.33	15.25		
20	1	0		10.91	11.12	10.98	10.50	10.77	10.68	13.72	13.96	13.84		
20	1	50		11.11	11.09	11.06	10.54	10.65	10.60	13.84	13.89	13.85		
20	51	0		10.82	11.02	10.87	10.48	10.71	10.57	13.66	13.88	13.73		
20	1	1	16-QAM	11.93	12.13	11.99	11.62	11.93	11.91	14.79	15.04	14.96	17.44	0.0555
20	1	1	64-QAM	10.44	10.65	10.48	9.87	10.18	10.10	13.17	13.43	13.30		
20	1	1	256-QAM	7.53	7.66	7.63	6.91	7.14	7.08	10.24	10.42	10.37		
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 = 2.4 dB)														
BW	RB	RB	Mod	Antenna 3			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	12.50	12.58	12.76	11.94	12.47	12.51	15.24	15.54	15.65	18.05	0.0638
30	1	76		12.40	12.71	12.74	12.03	12.18	12.30	15.23	15.46	15.54		
30	39	19		12.20	12.56	12.54	11.92	12.33	12.35	15.07	15.46	15.46		
30	1	0		10.89	11.24	11.22	10.41	10.90	10.98	13.67	14.08	14.11		
30	1	77		10.90	11.11	11.06	10.45	10.74	10.76	13.69	13.94	13.92		
30	78	0		10.68	11.10	11.08	10.41	10.77	10.84	13.56	13.95	13.97		
30	1	1	16-QAM	11.83	12.16	12.25	11.50	12.06	12.18	14.68	15.12	15.23	17.63	0.0579
30	1	1	64-QAM	10.37	10.65	10.76	9.82	10.30	10.40	13.11	13.49	13.59		
30	1	1	256-QAM	7.40	7.85	7.79	6.74	7.31	7.36	10.09	10.60	10.59		
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 = 2.4 dB)														
BW	RB	RB	Mod	Antenna 3			Antenna 1			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	12.41	12.57	12.67	12.11	12.36	12.23	15.27	15.48	15.47	17.99	0.0630
40	1	104		12.68	12.76	12.54	12.17	12.40	12.38	15.44	15.59	15.47		
40	53	26		12.27	12.55	12.45	12.01	12.27	12.28	15.15	15.42	15.38		
40	1	0		11.02	11.23	11.14	10.51	10.89	10.85	13.78	14.07	14.01		
40	1	105		11.07	11.22	11.09	10.68	10.80	10.73	13.89	14.03	13.92		
40	106	0		10.82	11.10	11.03	10.53	10.84	10.77	13.69	13.98	13.91		
40	1	1	16-QAM	11.96	12.22	12.11	11.71	11.88	11.86	14.85	15.06	15.00	17.46	0.0557
40	1	1	64-QAM	10.43	10.72	10.61	9.93	10.25	10.17	13.20	13.50	13.41		
40	1	1	256-QAM	7.54	7.80	7.71	6.88	7.26	7.14	10.23	10.55	10.44		
Limit	EIRP < 23dBm/10MHz			Result									Pass	

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

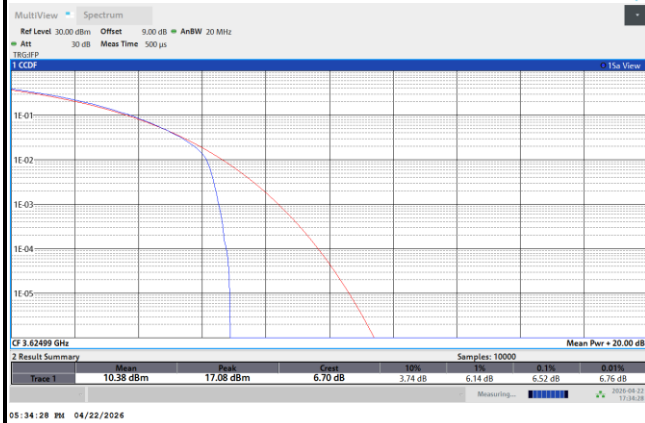
**FR1 n48****MIMO <Ant. 3+1> (Ant. 3)****Peak-to-Average Ratio**

Mode	FR1 n48 / 20MHz / CP OFDM				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	6.52	6.62	6.98	8.36	PASS

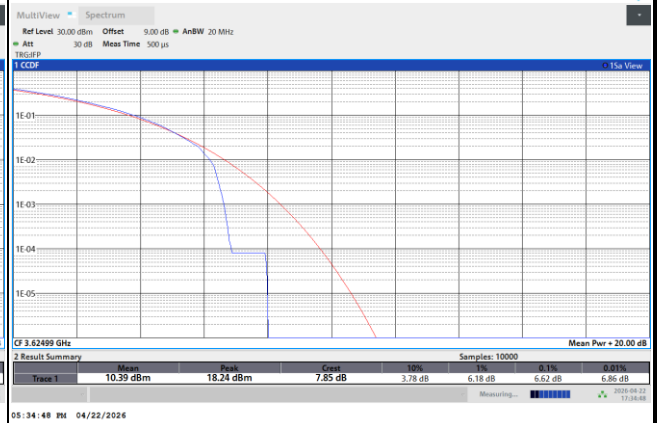


FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

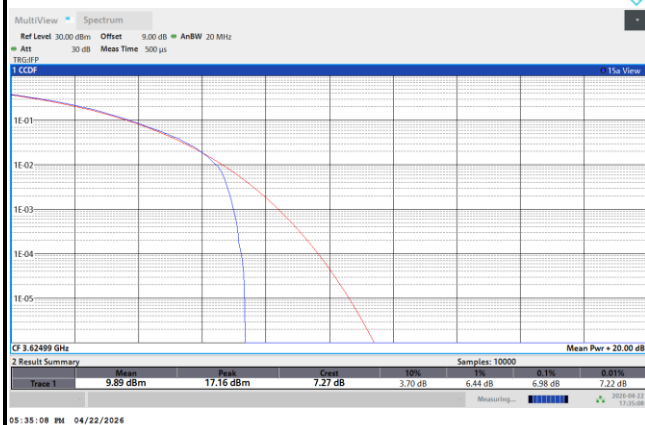
QPSK



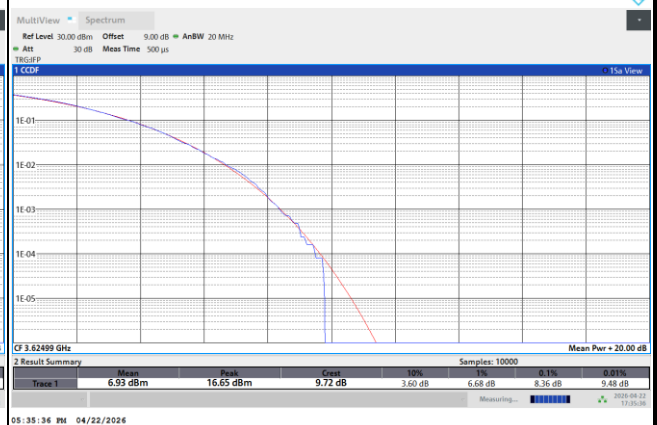
16QAM



64QAM



256QAM

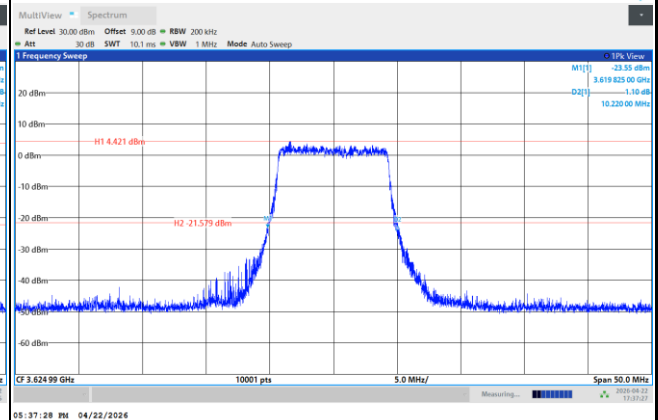


**26dB Bandwidth**

Mode	FR1 n48 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		30MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	10.01	10.22	15.24	15.48	20.32	20.34	30.82	31.57
BW	40MHz							
Mod.	QPSK	16QAM						
Middle CH	40.95	40.81						

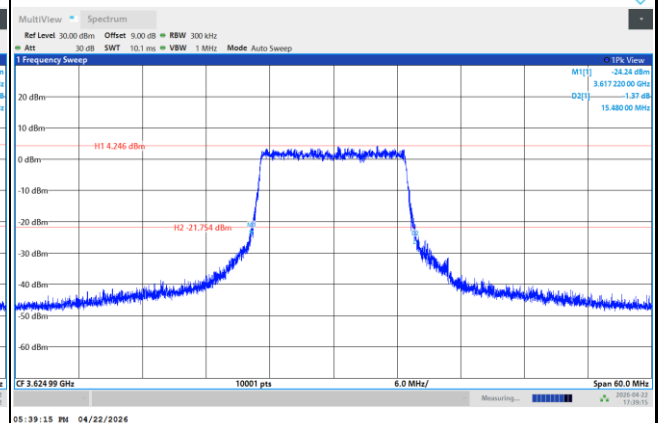


16QAM



QPSK

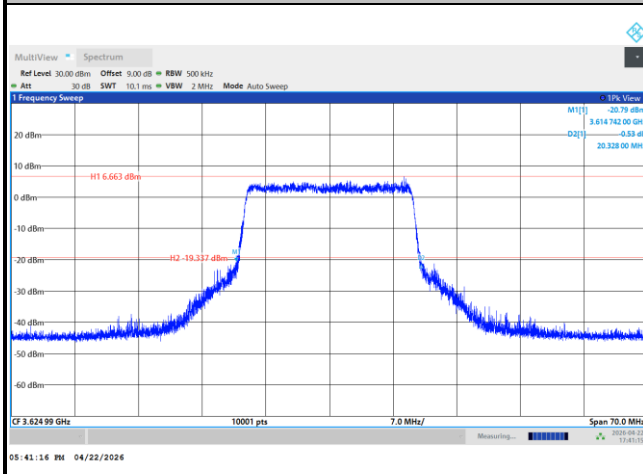
16QAM



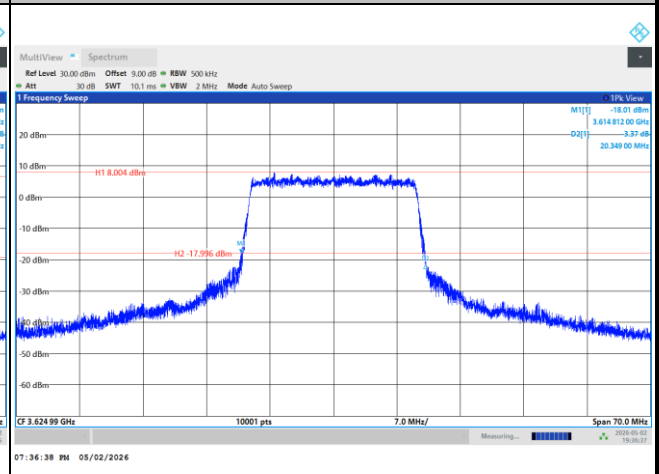


FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK

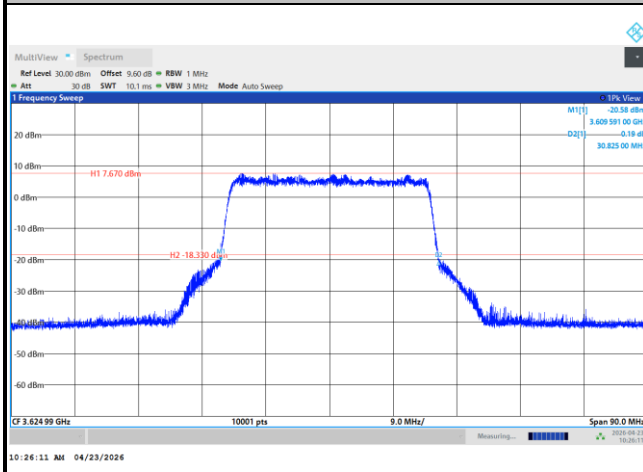


16QAM

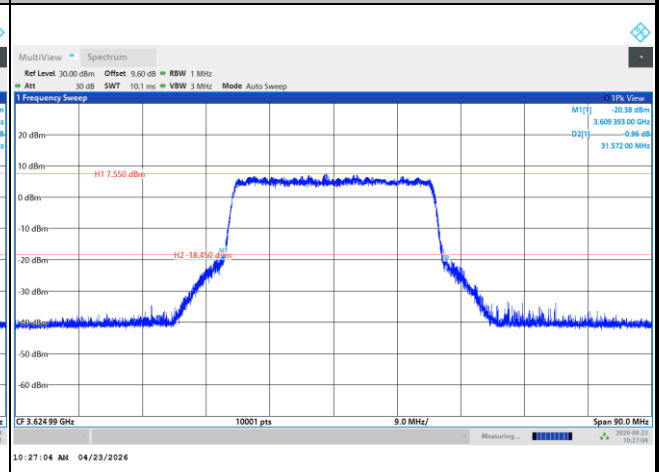


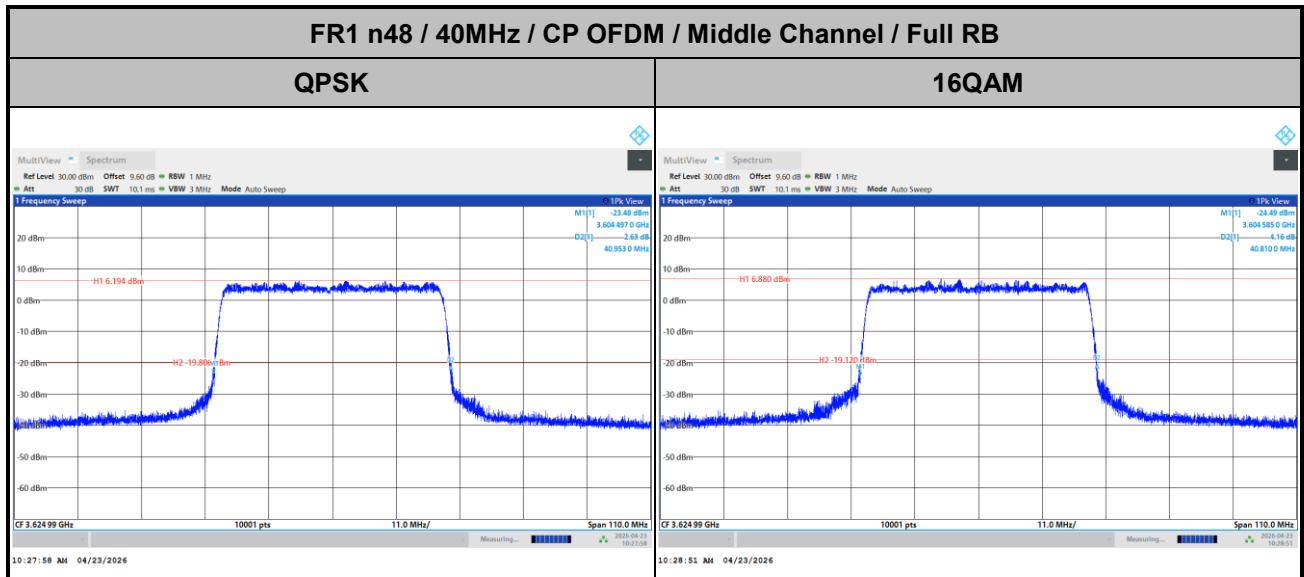
FR1 n48 / 30MHz / CP OFDM / Middle Channel / Full RB

QPSK



16QAM





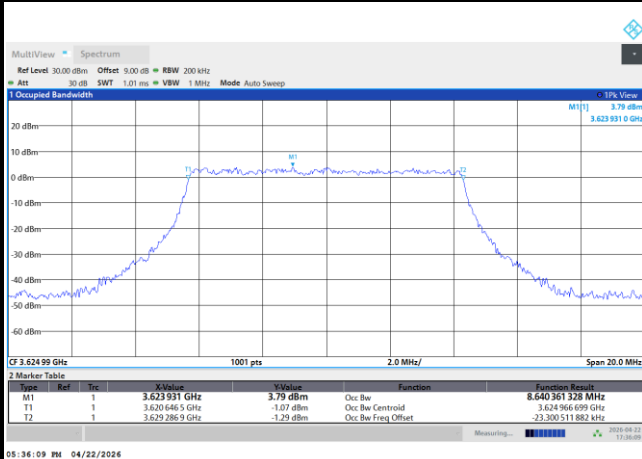
**Occupied Bandwidth**

Mode	FR1 n48 : OB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		30MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.64	8.71	13.65	13.69	18.34	18.38	28.23	28.36
BW	40MHz							
Mod.	QPSK	16QAM						
Middle CH	38.07	38.10			-	-	-	-

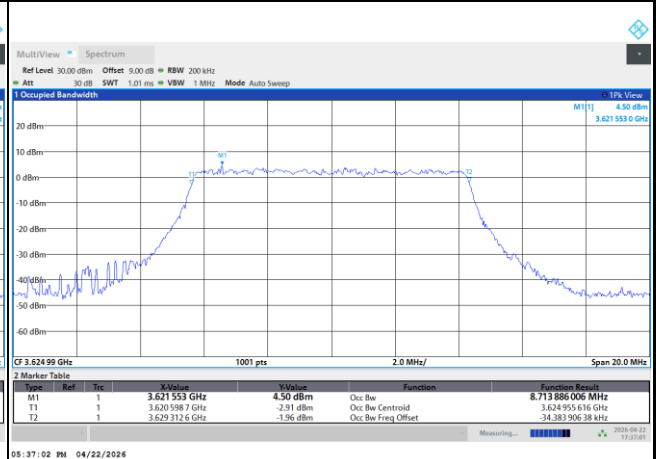


FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK

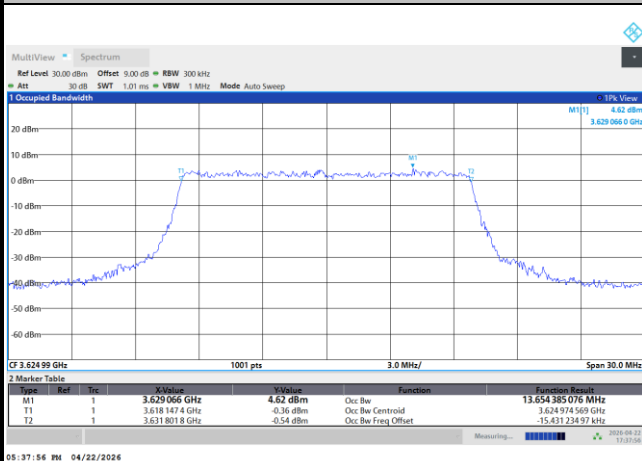


16QAM

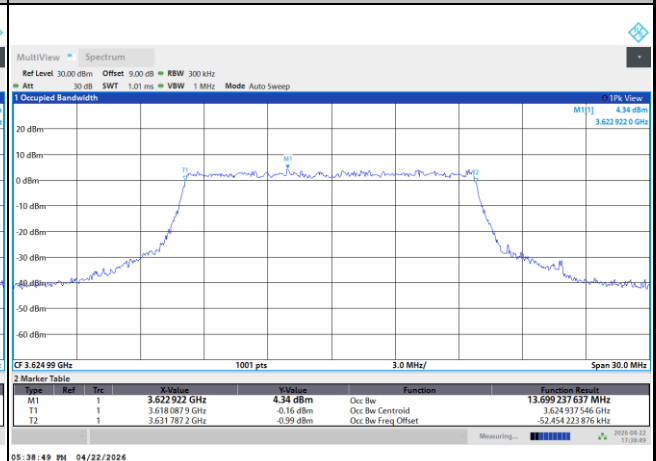


FR1 n48 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



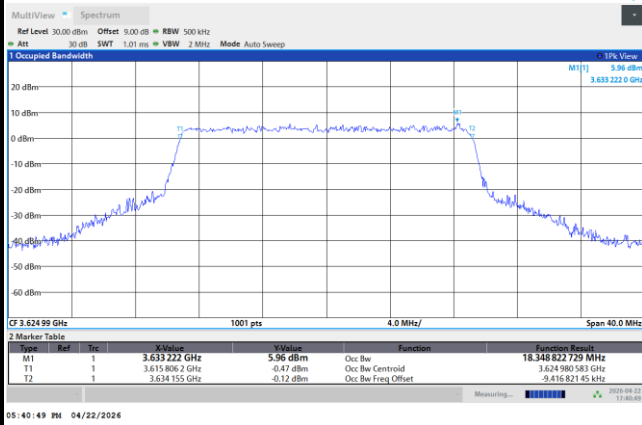
16QAM



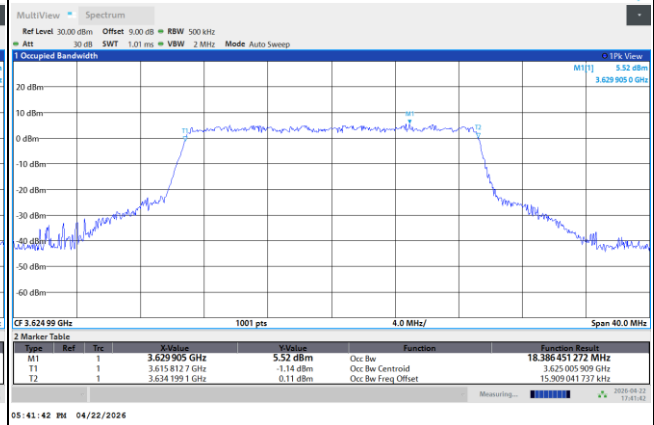


FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK

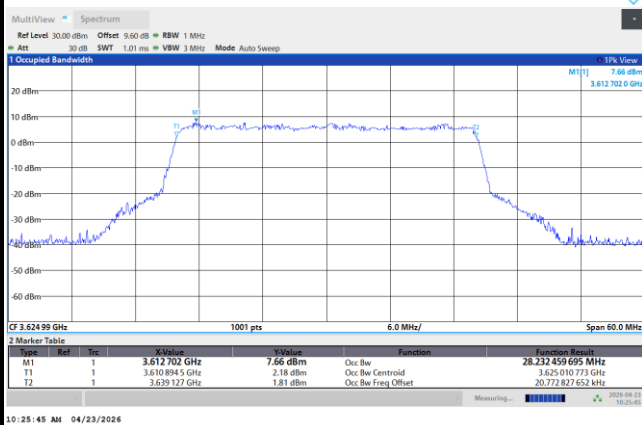


16QAM

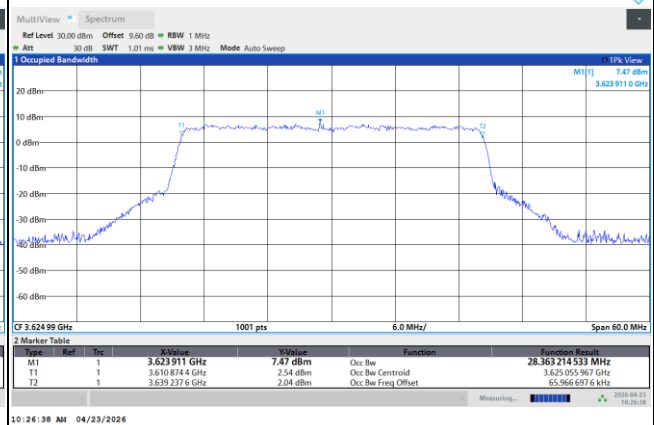


FR1 n48 / 30MHz / CP OFDM / Middle Channel / Full RB

QPSK



16QAM

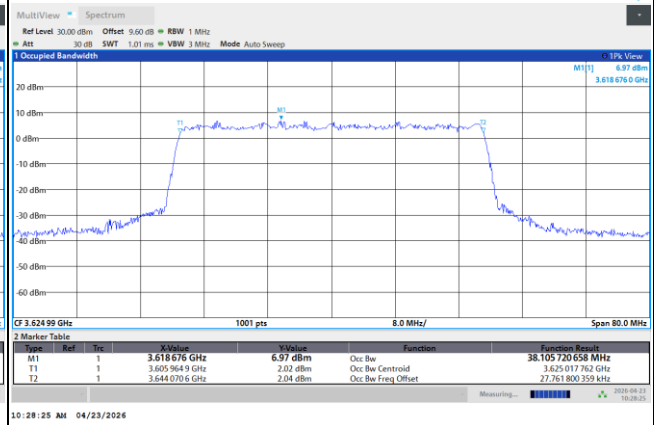
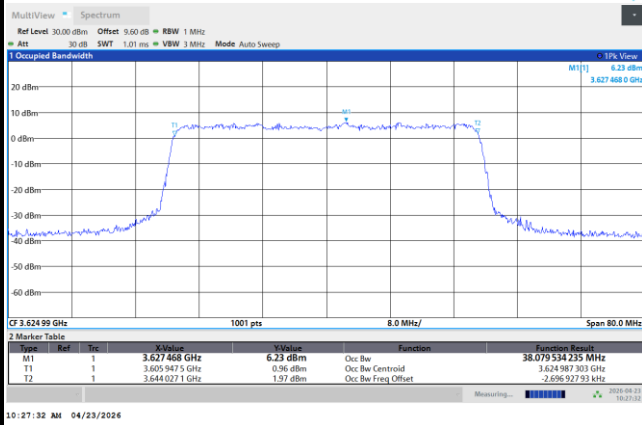




FR1 n48 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK

16QAM





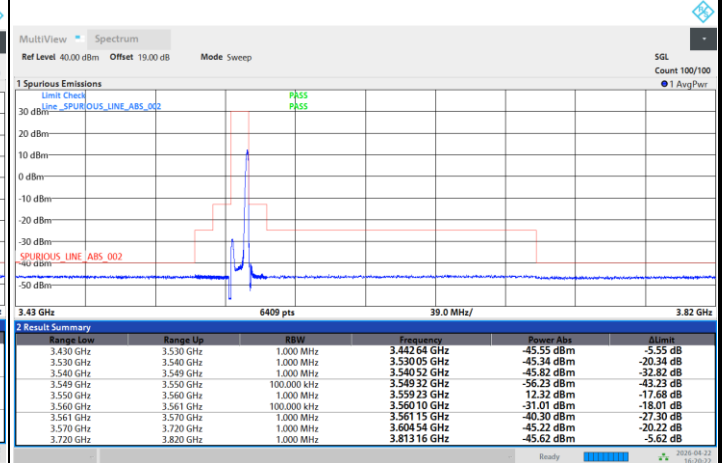
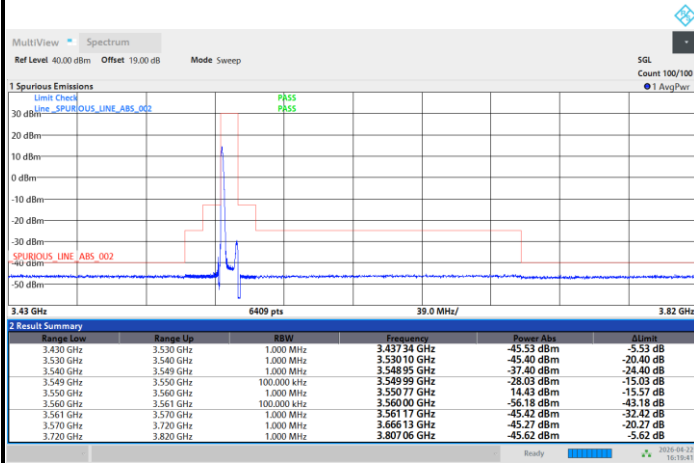
Unwanted Emission (MASK)

FR1 n48 / 10MHz / CP OFDM / QPSK

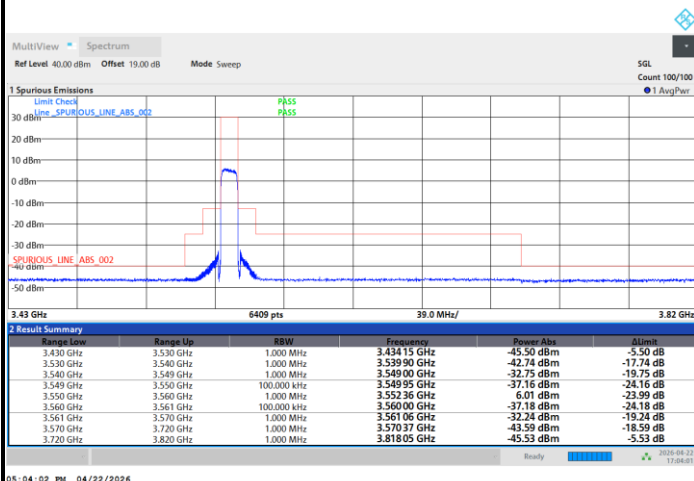
Lowest Channel

1RB0

1RBmax



Full RB

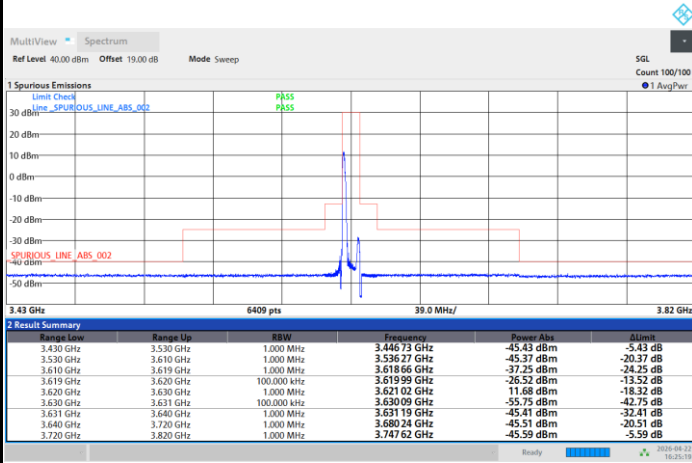




FR1 n48 / 10MHz / CP OFDM / QPSK

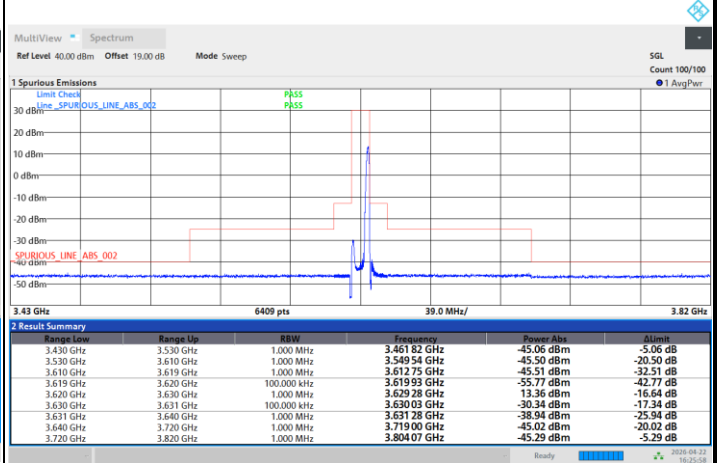
Middle Channel

1RB0



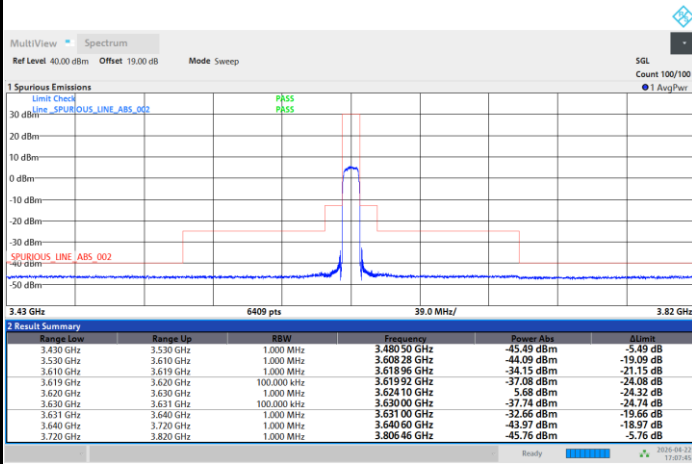
04:25:19 PM 04/22/2026

1RBmax



04:26:00 PM 04/22/2026

Full RB



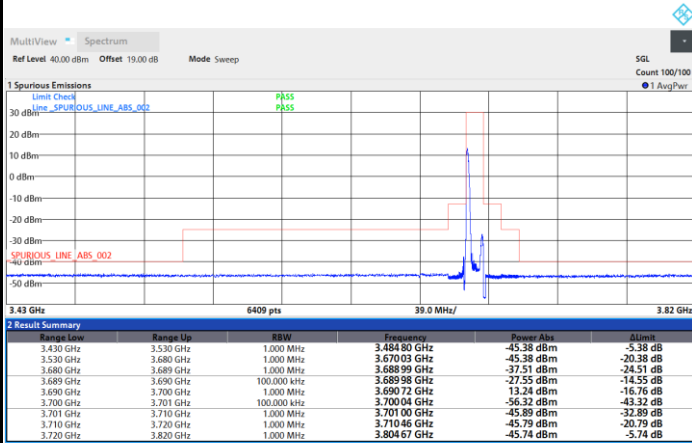
05:07:46 PM 04/22/2026



FR1 n48 / 10MHz / CP OFDM / QPSK

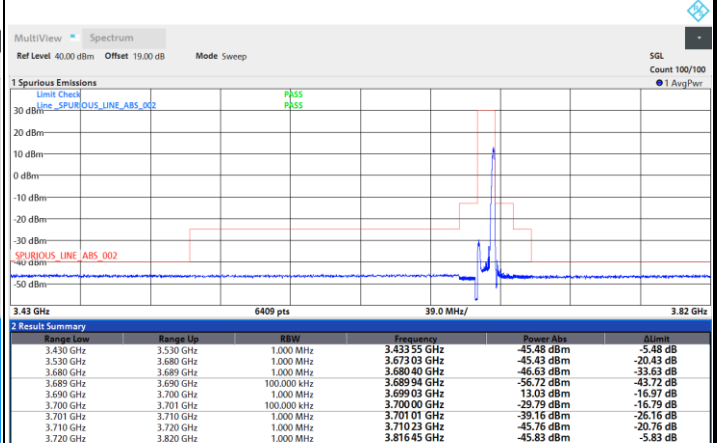
Highest Channel

1RB0



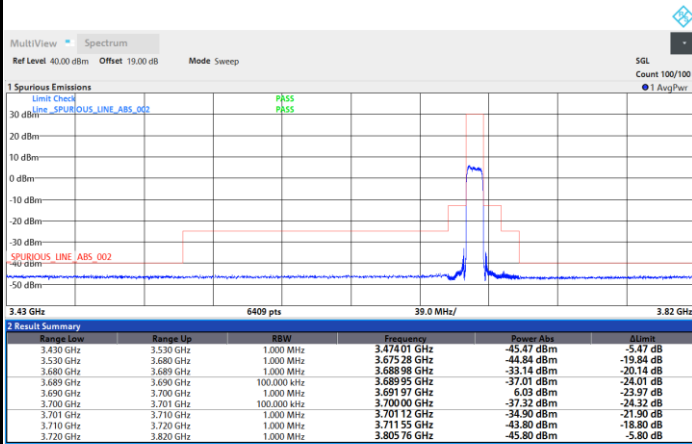
04:28:26 PM 04/22/2026

1RBmax



04:29:06 PM 04/22/2026

Full RB



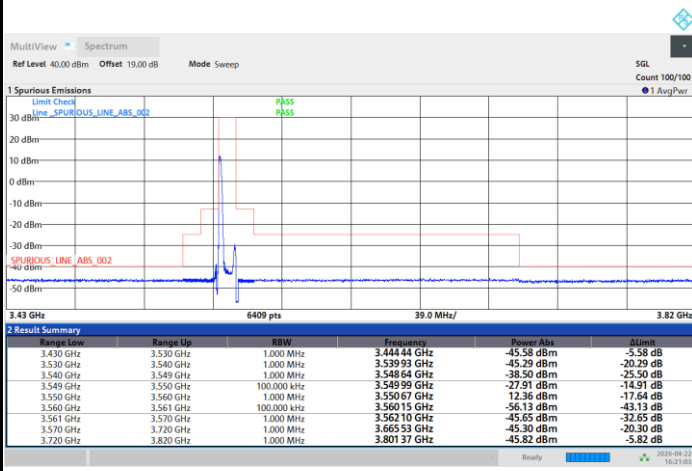
05:09:44 PM 04/22/2026



FR1 n48 / 10MHz / CP OFDM / 16QAM

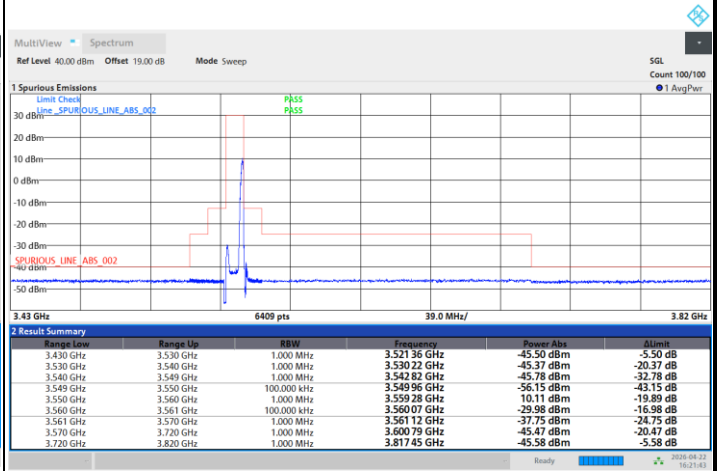
Lowest Channel

1RB0



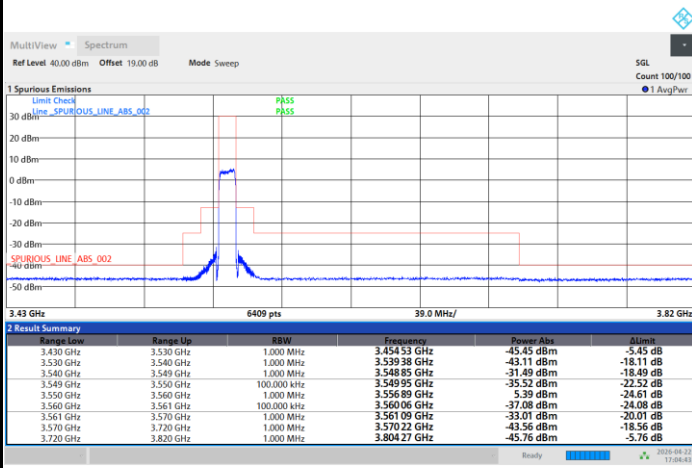
04:21:03 PM 04/22/2026

1RBmax



04:21:43 PM 04/22/2026

Full RB



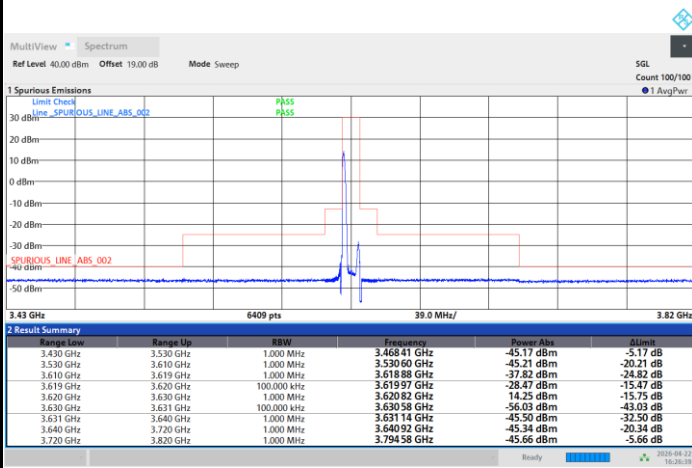
05:04:43 PM 04/22/2026



FR1 n48 / 10MHz / CP OFDM / 16QAM

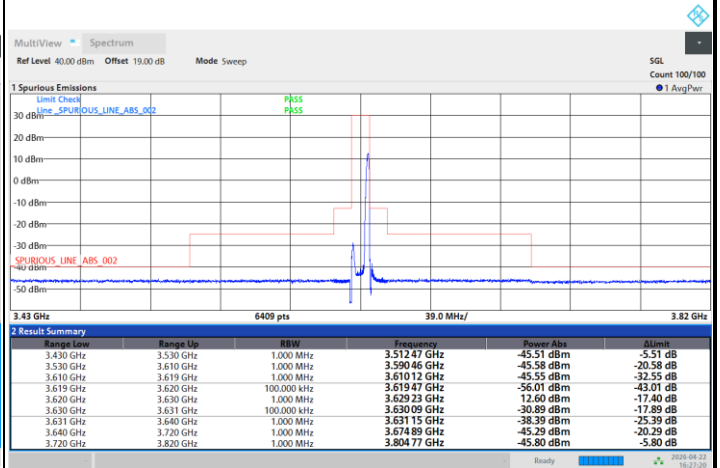
Middle Channel

1RB0



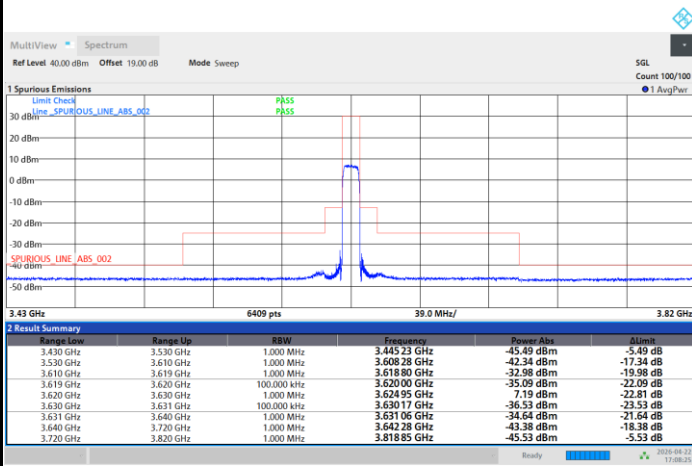
04:26:40 PM 04/22/2026

1RBmax



04:27:21 PM 04/22/2026

Full RB



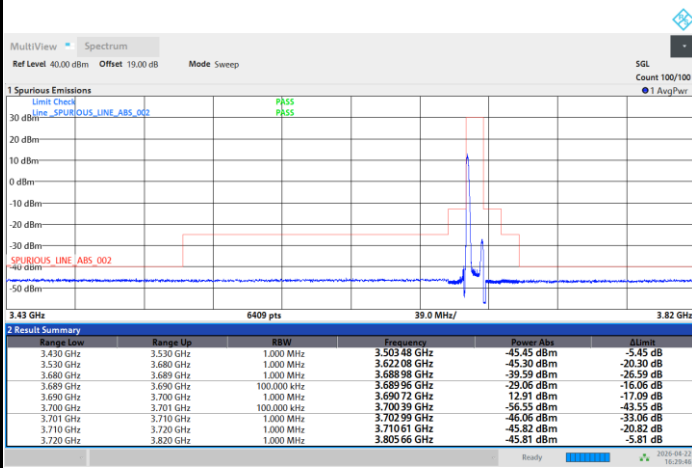
05:08:26 PM 04/22/2026



FR1 n48 / 10MHz / CP OFDM / 16QAM

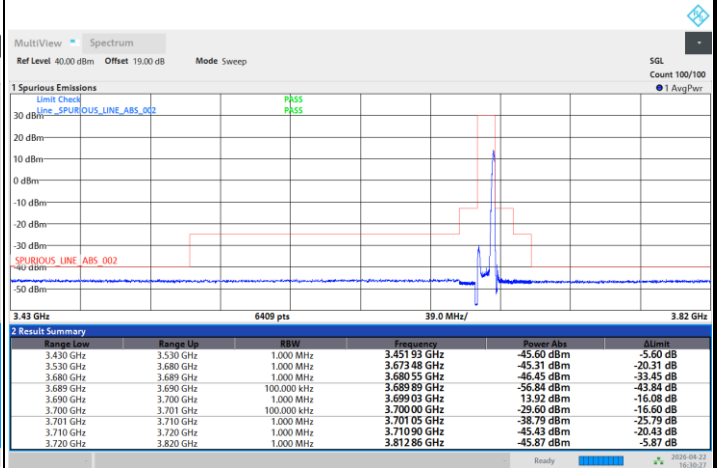
Highest Channel

1RB0



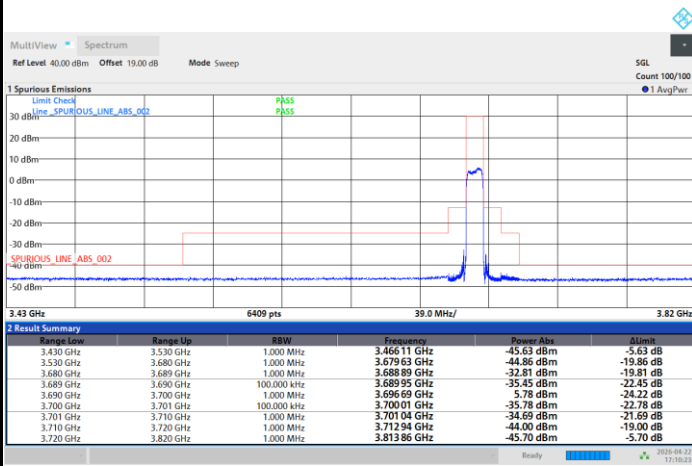
04:29:47 PM 04/22/2026

1RBmax



04:30:28 PM 04/22/2026

Full RB



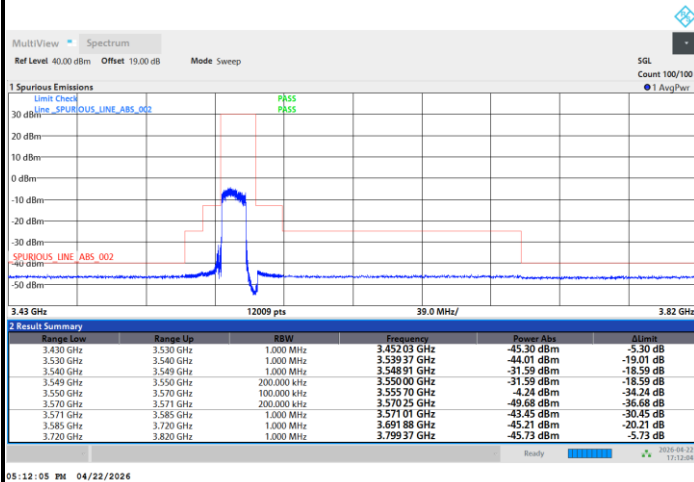
05:10:24 PM 04/22/2026



FR1 n48 / 15MHz / CP OFDM / QPSK

Lowest Channel

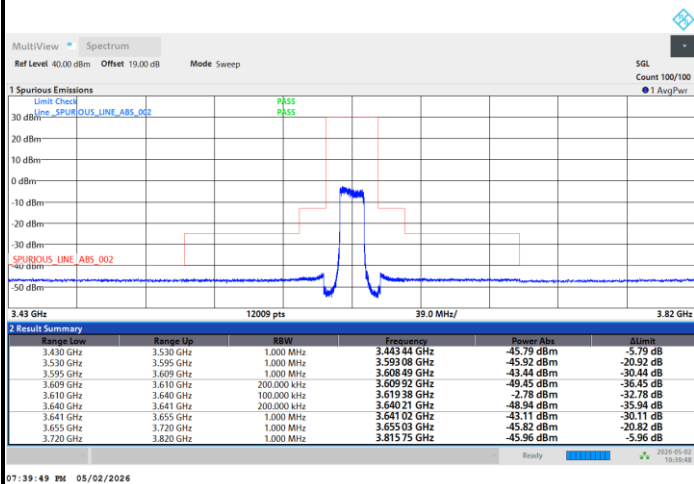
Full RB



FR1 n48 / 15MHz / CP OFDM / QPSK

Middle Channel

Full RB

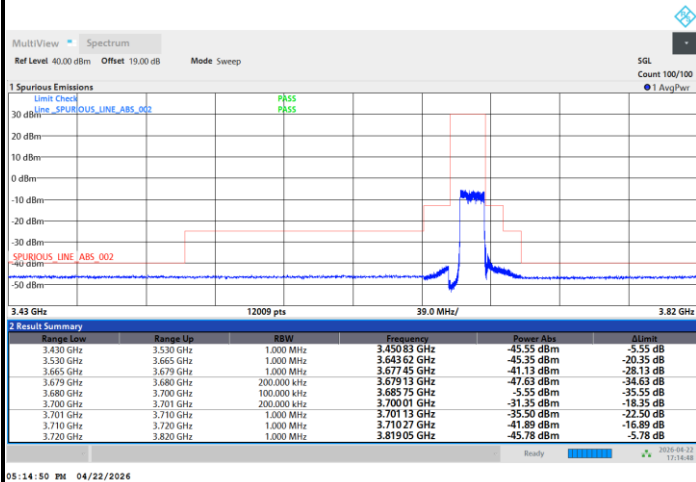




FR1 n48 / 15MHz / CP OFDM / QPSK

Highest Channel

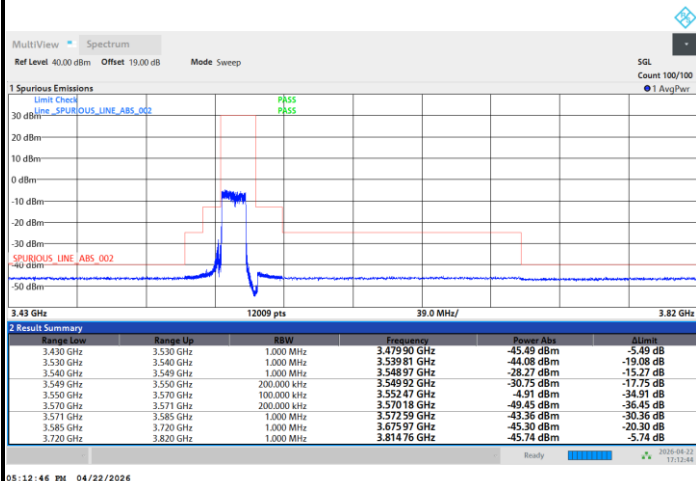
Full RB



FR1 n48 / 15MHz / CP OFDM / 16QAM

Lowest Channel

Full RB

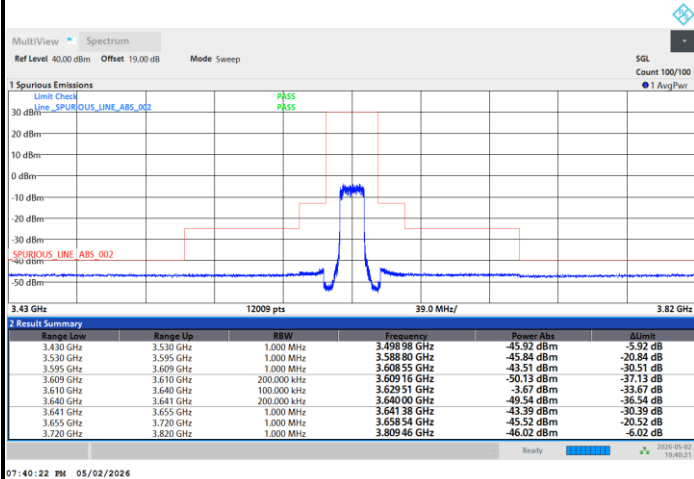




FR1 n48 / 15MHz / CP OFDM / 16QAM

Middle Channel

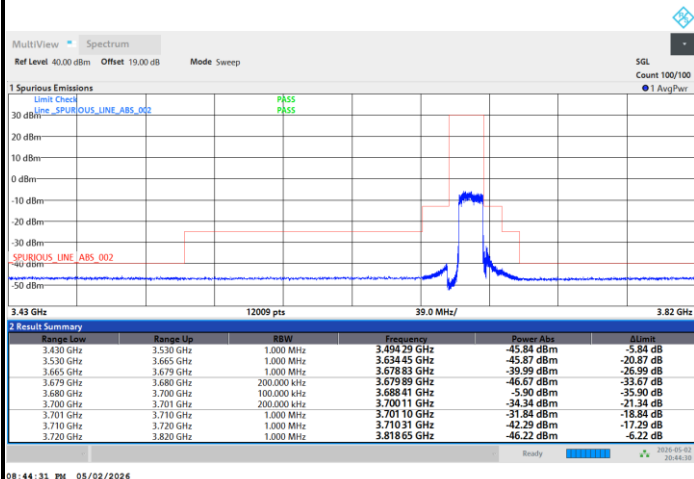
Full RB



FR1 n48 / 15MHz / CP OFDM / 16QAM

Highest Channel

Full RB

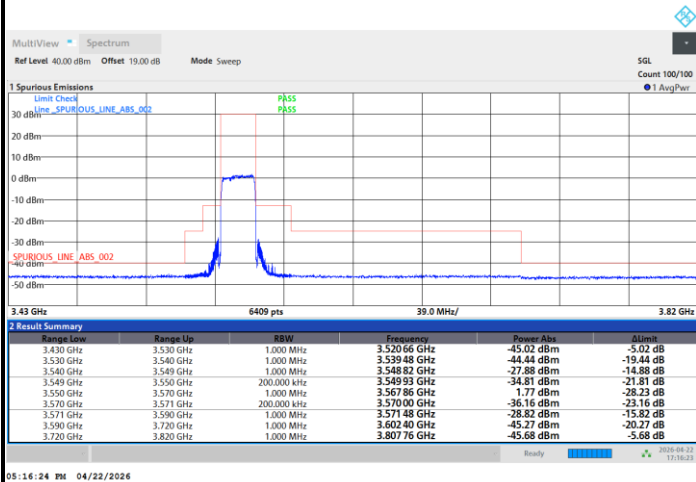




FR1 n48 / 20MHz / CP OFDM / QPSK

Lowest Channel

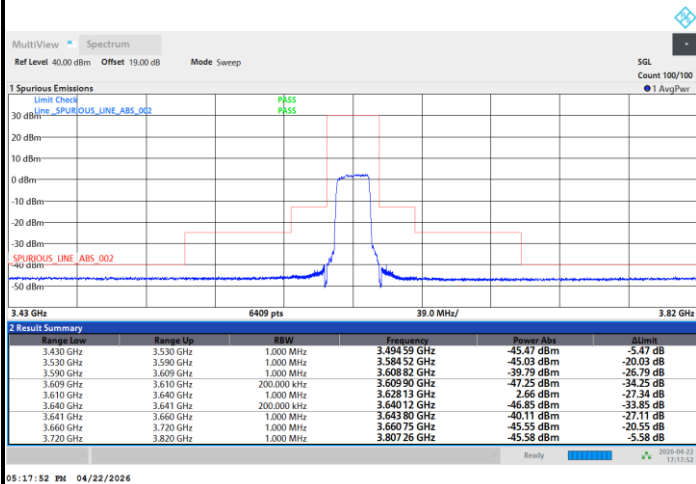
Full RB



FR1 n48 / 20MHz / CP OFDM / QPSK

Middle Channel

Full RB

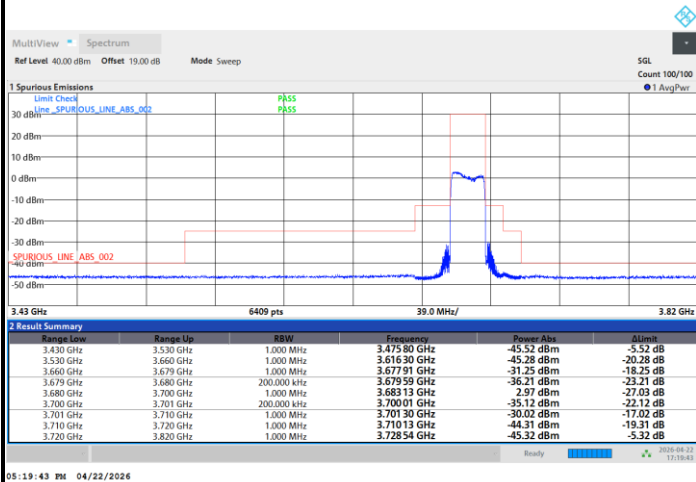




FR1 n48 / 20MHz / CP OFDM / QPSK

Highest Channel

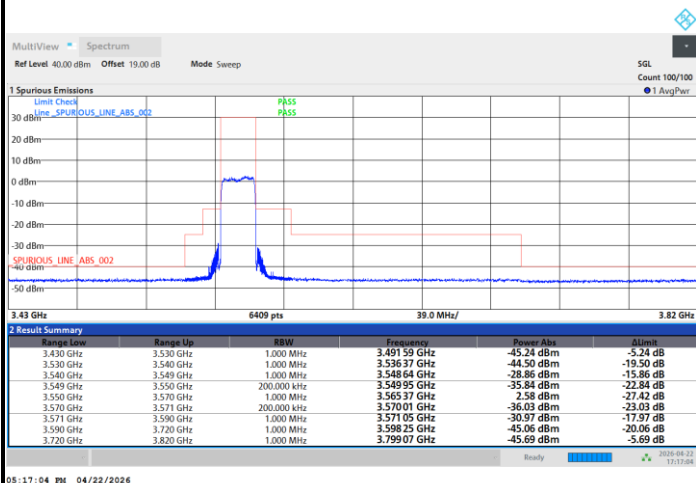
Full RB



FR1 n48 / 20MHz / CP OFDM / 16QAM

Lowest Channel

Full RB

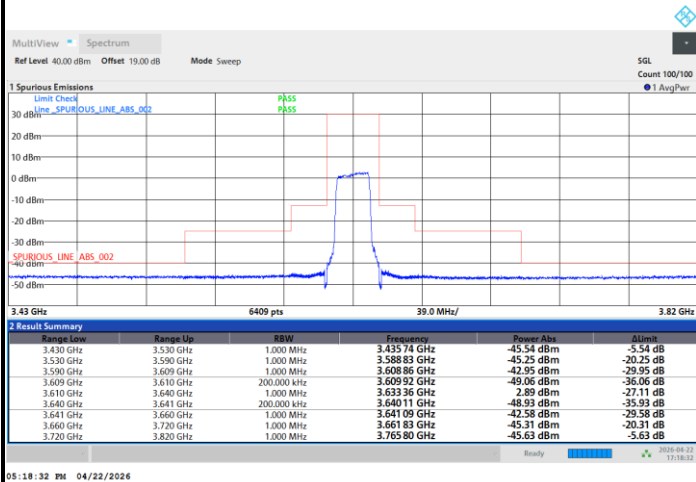




FR1 n48 / 20MHz / CP OFDM / 16QAM

Middle Channel

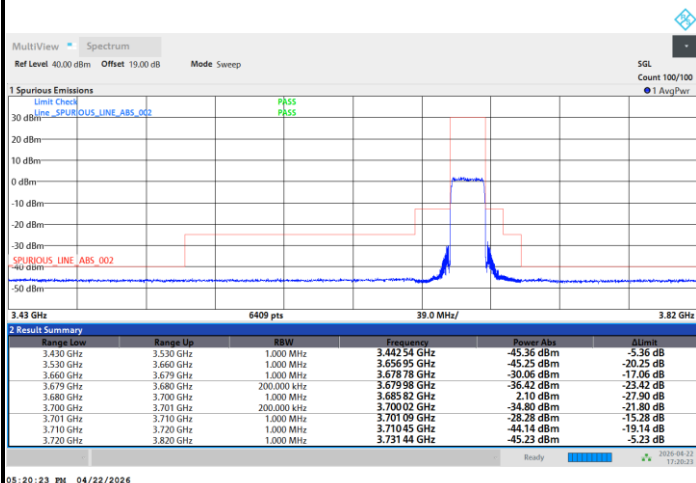
Full RB



FR1 n48 / 20MHz / CP OFDM / 16QAM

Highest Channel

Full RB

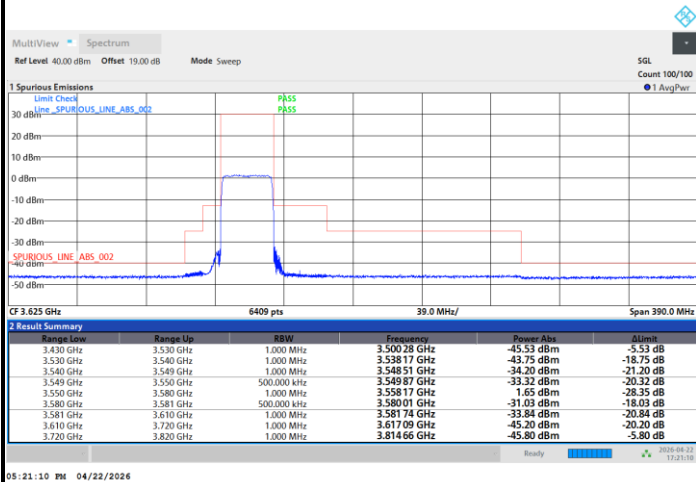




FR1 n48 / 30MHz / CP OFDM / QPSK

Lowest Channel

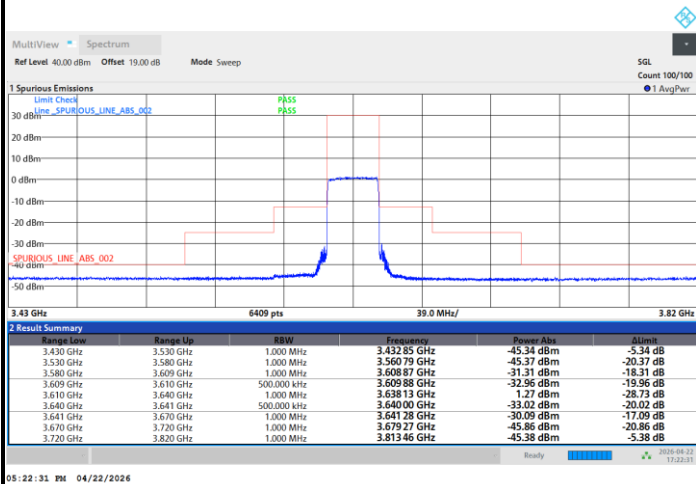
Full RB



FR1 n48 / 30MHz / CP OFDM / QPSK

Middle Channel

Full RB

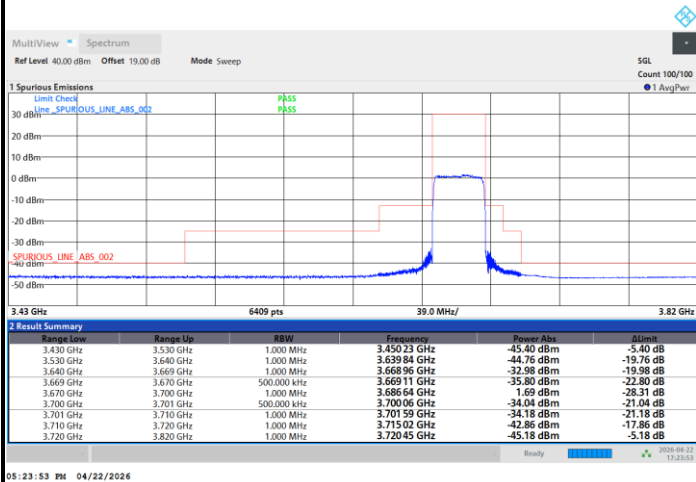




FR1 n48 / 30MHz / CP OFDM / QPSK

Highest Channel

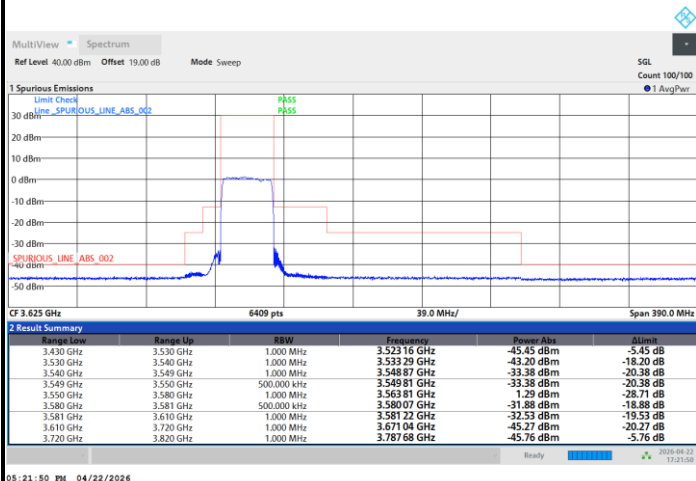
Full RB



FR1 n48 / 30MHz / CP OFDM / 16QAM

Lowest Channel

Full RB

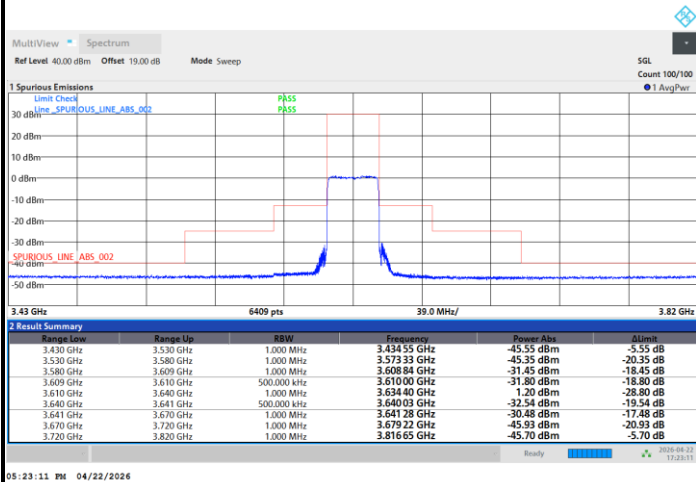




FR1 n48 / 30MHz / CP OFDM / 16QAM

Middle Channel

Full RB



FR1 n48 / 30MHz / CP OFDM / 16QAM

Highest Channel

Full RB

