



FCC RADIO TEST REPORT

FCC ID : PKRISGRM4210
Equipment : WWAN LGA Radio Module
Brand Name : Inseego
Model Name : RM4210
Applicant : Inseego Corp.
9710 Scranton Road Suite 200, San Diego, CA 92121
Manufacturer : Inseego Corp.
9710 Scranton Road Suite 200, San Diego, CA 92121
Standard : FCC 47 CFR Part 2, 27D, Part 90(R)

The product was received on Feb. 24, 2025 and testing was performed from Feb. 26, 2025 to Aug. 18, 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 given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this variant 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.

Louis Wu

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
FG4N2547-01B	01	Initial issue of report	Aug. 29, 2025
FG4N2547-01B	02	Revised section 2.5 This report is an updated version, replacing the report issued on Aug. 29, 2025	Sep. 01, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
	§27.50 (b)(9)	Effective Radiated Power (n13)	Pass	
	§27.50 (h)(2)	Equivalent Isotropic Radiated Power (n7)		
	§27.50 (a)(3)	Equivalent Isotropic Radiated Power (n30)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (n70)		
	§90.542 (a)(6)	Effective Radiated Power (n14)		
3.3	§27.50 (d)(5)	Peak-to-Average Ratio	Pass	-
3.4	§2.1049	Occupied Bandwidth	Pass	-
3.5	§2.1051 §27.53 (c)(2)(4) §27.53 (h)	Conducted Band Edge Measurement (n13) (n70)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (n7)		
	§2.1051 §27.53 (a)(4)	Conducted Band Edge Measurement (n30)		
	§2.1051 §90.543 (e)(2)	Conducted Band Edge Measuremen (n14)		
3.6	§2.1051 §90.210 (n)	Emission Mask (n14)	Pass	-
3.7	§2.1051 §27.53 (c)(2) §27.53 (h)	Conducted Spurious Emission (n13) (n70)	Pass	-
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (n7)		
	§2.1051 §27.53 (a)(4)	Conducted Spurious Emission (n30)		
	§2.1051 §90.543 (e)(3)	Conducted Spurious Emission (n14)		
3.8	§2.1055 §27.54 §90.539 (e)	Frequency Stability Temperature & Voltage	Pass	-



Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
4.2	§2.1053 §27.53 (c)(2) 27.53 (h)	Radiated Spurious Emission (n13) (n70)	Pass	-
	§2.1053 §27.53 (m)(4)	Radiated Spurious Emission (n7)		
	§2.1053 §27.53 (a)(4)	Radiated Spurious Emission (n30)		
	§2.1053 §90.543 (e)(3) §90.543 (f)	Radiated Spurious Emission (n14)		

Remark: This is a variant report including the addition of NR bands n7, n13, n14, n30 and ENDC band via software.

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: Danny Lee

Report Producer: Josie Hsu



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs 3G-WCDMA, 4G-LTE, 5G-FR1 and GNSS.

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.
2. Maximum allow antenna Gain: refer MPE Report FA4N2547-01.

Support band and evaluated information	
Supported band	n7, n13, n14, n30, n70
Evaluated and Tested band	n7, n13, n14, n30, n70

1.2 Modification of EUT

No modifications made to the EUT during the testing.



1.3 Testing Location

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	Mike Yeh and Hank Chen
Temperature (°C)	20.3~22.6
Relative Humidity (%)	50.1~55.3

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

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.
	03CH20-HY (TAF Code: 3786)
Test Engineer	John Chuan, David Dai and Sam Chou
Temperature (°C)	19.9~22.9
Relative Humidity (%)	64.3~70.6
Remark	The Radiated Spurious Emission test item for LTE Band 30 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 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 27D, Part 90(R)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. 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 EUT antenna in two config (Ant. Horizontal or Ant. Vertical), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

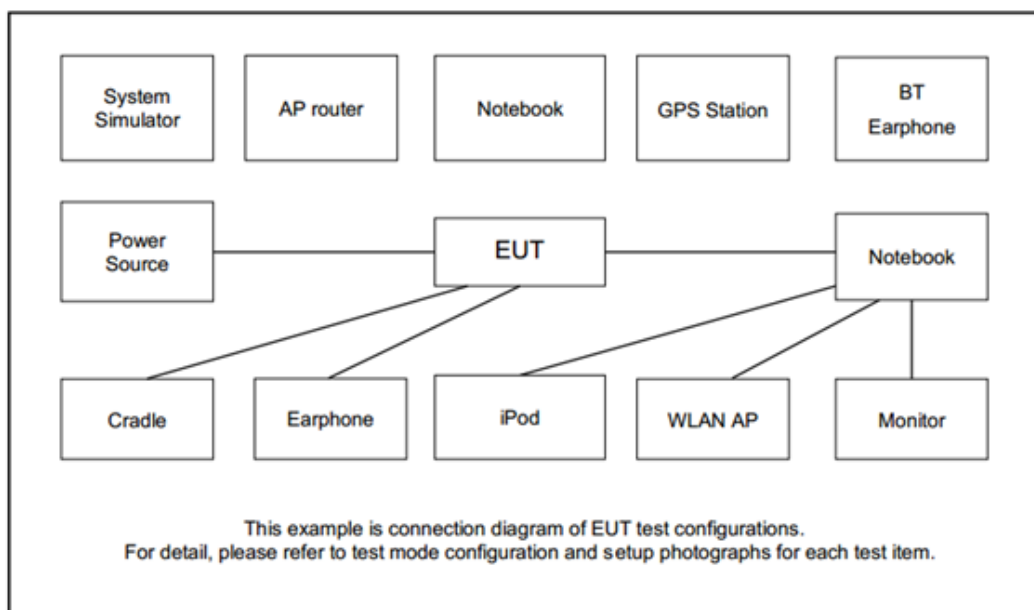
Modulation Type	Modulation	Modulation Type	Modulation
A	DFT-s-OFDM pi/2 BPSK	N/A	N/A
B	DFT-s-OFDM QPSK	F	CP-OFDM QPSK
C	DFT-s-OFDM 16QAM	G	CP-OFDM 16QAM
D	DFT-s-OFDM 64QAM	H	CP-OFDM 64QAM
E	DFT-s-OFDM 256QAM	I	CP-OFDM 256QAM

Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B, C, D, E, F, G, H, I	All	1, Half, Full	L, M, H
EIRP	A, B, C, D, E, F, G, H, I	All	1, Half, Full	L, M, H
PAR	A, B, C, D, E, F, G, H, I	20 MHz or less	Outer_Full	M
Bandwidth	A, B, C, F, G	All	Outer_Full	M
CBE	A, B, F, G	All	Outer_1RB Outer_Full	L, H
CSE	B, F	Minimum	Inner_1RB	L, M, H
Frequency Stability	A, F	10 MHz or less	Outer_Full	M
RSE	A or F	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 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. The PAR result is stable for each supported bandwidth so only one representative bandwidth among all supported bandwidths is selected for PAR testing.
4. For 5G NR test combination are EN-DC 4A_n2A, 5A_n2A, 7A_n2A, 12A_n2A, 13A_n2A, 14A_n2A, 30A_n2A, 48A_n2A, 66A_n2A, 71A_n2A, 2A_n5A, 7A_n5A, 30A_n5A, 48A_n5A, 66A_n5A, 2A_n7A, 4A_n7A, 5A_n7A, 12A_n7A, 13A_n7A, 66A_n7A, 71A_n7A, 2A_n12A, 7A_n12A, 48A_n12A, 66A_n12A, 5A_n25A, 7A_n25A, 12A_n25A, 13A_n25A, 26A_n25A, 66A_n25A, 71A_n25A, 2A_n38A, 4A_n38A, 5A_n38A, 12A_n38A, 66A_n38A, 71A_n38A, 4A_n41A, 5A_n41A, 12A_n41A, 25A_n41A, 26A_n41A, 71A_n41A, 2A_n66A, 5A_n66A, 7A_n66A, 12A_n66A, 13A_n66A, 14A_n66A, 30A_n66A, 48A_n66A, 2A_n71A, 7A_n71A, 66A_n71A, 2A_n77A, 5A_n77A, 7A_n77A, 12A_n77A, 13A_n77A, 14A_n77A, 25A_n77A, 30A_n77A, 41A_n77A, 66A_n77A, 71A_n77A, 2A_n78A, 4A_n78A, 5A_n78A, 7A_n78A, 12A_n78A, 13A_n78A, 25A_n78A, 38A_n78A, 41A_n78A, 66A_n78A, and 71A_n78A.
5. Interband ULCA modes n2A-n41A, n2A-n48A, n2A-n77A, n2A-n78A n5A-n41A, n5A-n48A, n5A-n77A, n5A-n78A, n7A-n77A, n7A-n78A, n12A-n77A, n14A-n77A, n25A-n38A, n25A-n78A, n30A-n77A, n38A-n66A, n66A-n78A, n71A-n78A are covered by each rule part of 5G-FR1 signal carrier mode with higher power.

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.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude5310	N/A	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 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 4.2 dB and 10dB attenuator.

Example :

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\
 &= 4.2 + 10 = 14.2 \text{ (dB)}
 \end{aligned}$$



2.5 Frequency List of Low/Middle/High Channels

5G NR n7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
50	Channel	505000	507000	509000
	Frequency	2525	2535	2545
40	Channel	504000	507000	510000
	Frequency	2520	2535	2550
35	Channel	503500	507000	510500
	Frequency	2517.5	2535	2552.5
30	Channel	503000	507000	511000
	Frequency	2515	2535	2555
25	Channel	502500	507000	511500
	Frequency	2512.5	2535	2557.5
20	Channel	502000	507000	512000
	Frequency	2510	2535	2560
15	Channel	501500	507000	512500
	Frequency	2507.5	2535	2562.5
10	Channel	501000	507000	513000
	Frequency	2505	2535	2565
5	Channel	500500	507000	513500
	Frequency	2502.5	2535	2567.5

5G NR n13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	156400	-
	Frequency	-	782	-
5	Channel	155900	156400	156900
	Frequency	779.5	782	784.5

5G NR n14 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	158600	-
	Frequency	-	793	-
5	Channel	158100	158600	159100
	Frequency	790.5	793	795.5



5G NR n30 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	27710	-
	Frequency	-	2310	-
5	Channel	27685	27710	27735
	Frequency	2307.5	2310	2312.5

5G NR n70 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	-	340500	-
	Frequency	-	1702.5	-
10	Channel	340000	340500	341000
	Frequency	1700	1702.5	1705
5	Channel	339500	340500	341500
	Frequency	1697.5	1702.5	1707.5

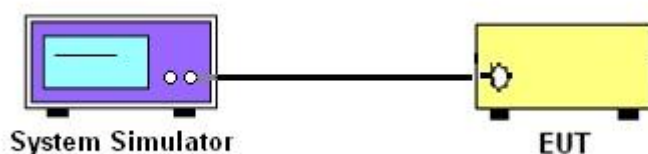
3 Conducted Test Items

3.1 Measuring Instruments

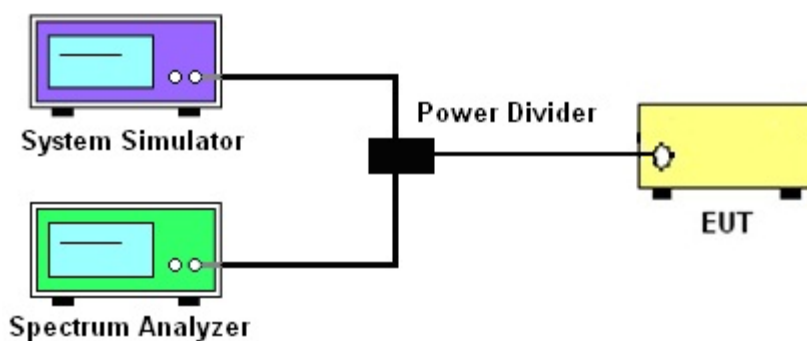
See list of measuring instruments of this test report.

3.1.1 Test Setup

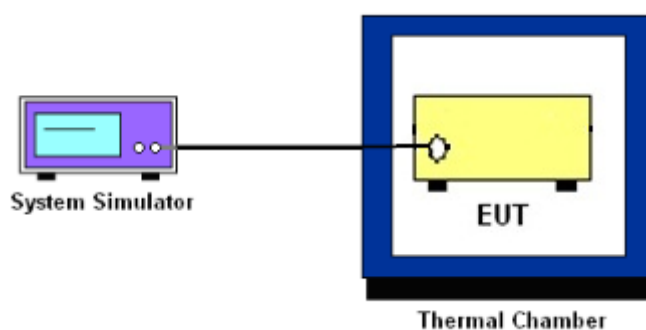
3.1.2 Conducted Output Power



3.1.3 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge, Emission Mask 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 and ERP/EIRP

3.2.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

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

The ERP of mobile transmitters must not exceed 30 Watts for 5G NR n13, n14

The EIRP of mobile transmitters must not exceed 2 Watts for 5G NR n7

The EIRP of mobile transmitters must not exceed 250mW/5MHz for 5G NR n30

The EIRP of mobile transmitters must not exceed 1 Watts for 5G NR n70

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

The MIMO mode is completely uncorrelated, so the directional gain is selected the maximum gain among all antennas.

3.2.2 Test Procedures

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



3.3 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 Occupied Bandwidth

3.4.1 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.

3.4.2 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.



3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

27.53 (c)

For operations in the 776-788 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least $65 + 10 \log_{10} p(\text{watts})$, dB, for mobile and portable equipment.

27.53 (h)

For operations in the 1695-1710 MHz band 1710 – 1755 MHz band, 1755-1780 MHz, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

**27.53(m)(4)**

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

27.53 (a)(4)

For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:

- (i) By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz.
- (ii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$ dB below 2288 MHz.
- (iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.

90.543(e)

- (1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.



3.5.2 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. Checked that all the results comply with the emission limit line.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

For 5G NR n7

The other 40 dB, and 55 dB have additionally applied same calculation above.

8. For MIMO mode, add additional MIMO factor $10\log(NTX=2) = 3.01$ dB into the spectrum analyzer offset.



3.6 Emission Mask

3.6.1 Description of Emissions Mask Measurement

For 5G NR n14

Transmitters designed must meet the emission mask comply with the emission mask provisions of FCC Part 90.210(n).

3.6.2 Test Procedures

For 5G NR n14

The testing follows FCC KDB 971168 D01 v03r01 Section 6.0.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The power of the modulated signal was measured on a spectrum analyzer using an RMS and 10 second sweep time in order to maximize the level.
3. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For 5G NR n30

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $70 + 10 \log (P)$ dB.

For 5G NR n7

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

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 conducted spurious emission for the whole frequency range was taken.
4. Make the measurement with the spectrum analyzer's RBW = 100 kHz if the authorized frequency band/block is at or below 1 GHz and 1 MHz if the authorized frequency band/block is above 1 GHz, VBW = 3 * RBW.
5. Set spectrum analyzer with RMS detector.
6. Taking the record of maximum spurious emission.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
For 5G NR n30
The limit line is derived from $70 + 10\log(P)$ dB below the transmitter power P(Watts)
For 5G NR n7
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
9. For MIMO mode, add additional MIMO factor $10\log(NTX=2) = 3.01$ dB into the spectrum analyzer offset.



3.8 Frequency Stability

3.8.1 Description of Frequency Stability Measurement

27.54

The frequency stability shall be sufficient 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 20±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.

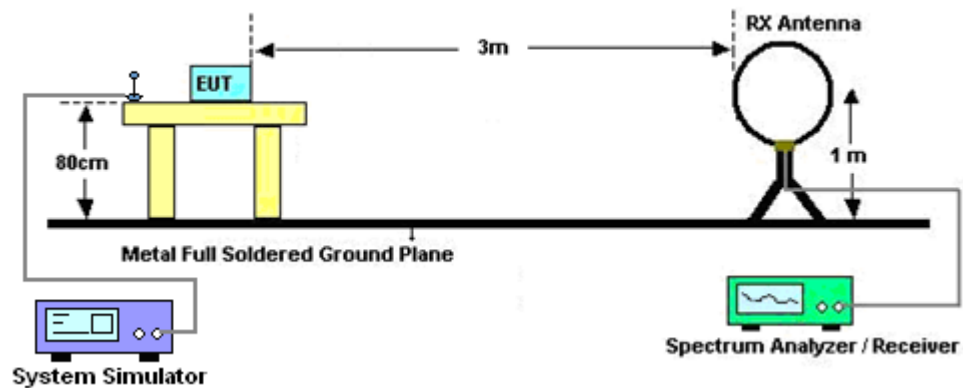
4 Radiated Test Items

4.1 Measuring Instruments

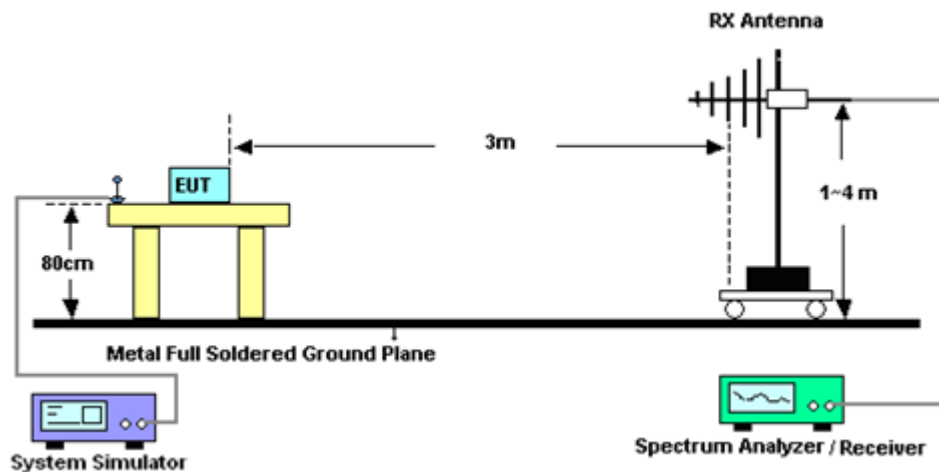
See list of measuring instruments of this test report.

4.1.1 Test Setup

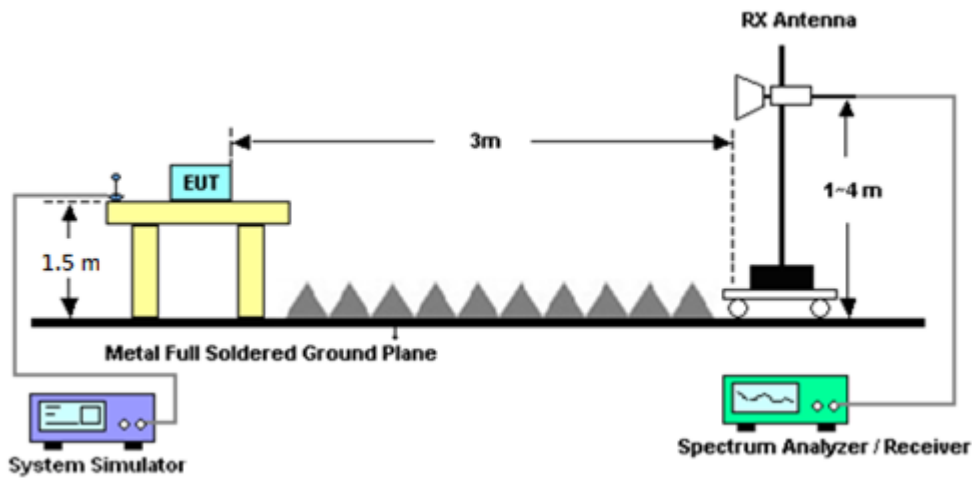
For radiated test below 30MHz



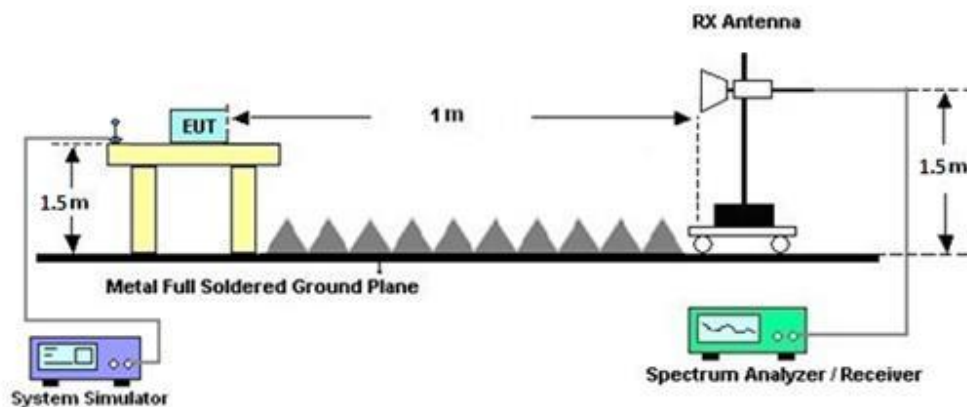
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test 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 Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E. 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 $43 + 10 \log (P)$ dB

For 5G NR n7

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 $55 + 10 \log (P)$ dB.

For 5G NR n13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

For 5G NR n30

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 $70 + 10 \log (P)$ dB.

For 5G NR n14

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

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 5.5.4 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, which was 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 one meter and four meters 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.
The limit line is derived from $43 + 10\log(P)\text{dB}$ below the transmitter power P(Watts)
For 5G NR n30
The limit line is derived from $70 + 10\log(P)\text{dB}$ below the transmitter power P(Watts)
For 5G NR n7
The limit line is derived from $55 + 10\log(P)\text{dB}$ below the transmitter power P(Watts)



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	N/A	Oct. 16, 2024	Jul. 22, 2025~ Aug. 14, 2025	Oct. 15, 2025	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Aug. 29, 2024	Jul. 22, 2025~ Aug. 14, 2025	Aug. 28, 2025	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060871	18GHz~40GHz	Aug. 23, 2024	Jul. 22, 2025~ Aug. 14, 2025	Aug. 22, 2025	Radiation (03CH20-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Jul. 22, 2025~ Aug. 14, 2025	N/A	Radiation (03CH20-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jul. 22, 2025~ Aug. 14, 2025	N/A	Radiation (03CH20-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jul. 22, 2025~ Aug. 14, 2025	N/A	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY60240520	N/A	Dec. 09, 2024	Jul. 22, 2025~ Aug. 14, 2025	Dec. 08, 2025	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800N1 D01N-06	55606 & 08	30MHz~1GHz	Nov. 27, 2024	Jul. 22, 2025~ Aug. 14, 2025	Nov. 26, 2025	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	02360	1GHz~18GHz	Nov. 01, 2024	Jul. 22, 2025~ Aug. 14, 2025	Oct. 31, 2025	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	1223	18GHz~40GHz	Jul. 02, 2025	Jul. 22, 2025~ Aug. 14, 2025	Jul. 01, 2026	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz~1000MHz	Dec. 31, 2024	Jul. 22, 2025~ Aug. 14, 2025	Dec. 30, 2025	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45SE	980792	N/A	Nov. 12, 2024	Jul. 22, 2025~ Aug. 14, 2025	Nov. 11, 2025	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,80 4015/2,8040 27/2	N/A	Jan. 16, 2025	Jul. 22, 2025~ Aug. 14, 2025	Jan. 15, 2026	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303A	TP211382	N/A	Mar. 31, 2025	Jul. 22, 2025~ Aug. 14, 2025	Mar. 30, 2026	Radiation (03CH20-HY)
Software	Audix	N/A	RK-002156	N/A	N/A	Jul. 22, 2025~ Aug. 14, 2025	N/A	Radiation (03CH20-HY)
DC Power Supply	GW Instek	PSS-2005	EL890089	1V~20V 0.5A~5A	Feb. 07, 2025	Feb. 26, 2025~ Aug. 18, 2025	Feb. 06, 2026	Conducted (TH03-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101049	10Hz~44GHz	Oct. 07, 2024	Feb. 26, 2025~ Aug. 18, 2025	Oct. 16, 2025	Conducted (TH03-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101691	10Hz~44GHz	Oct. 02, 2024	Feb. 26, 2025~ Aug. 18, 2025	Oct. 01, 2025	Conducted (TH03-HY)
Temperature Chamber	ESPEC	LHU-113	1012005860	-20°C ~85°C	Dec. 10, 2024	Feb. 26, 2025~ Aug. 18, 2025	Dec. 09, 2025	Conducted (TH03-HY)
Hygrometer	TECPEL	DTM-303B	TP200886	NA	Mar. 14, 2024	Feb. 26, 2025~ Aug. 18, 2025	Mar. 13, 2025	Conducted (TH03-HY)
Hygrometer	Testo	608-H1	34893241	NA	Mar. 03, 2024	Feb. 26, 2025~ Aug. 18, 2025	Mar. 02, 2026	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8821C	6262116725	LTE	Oct. 17, 2024	Feb. 26, 2025~ Aug. 18, 2025	Oct. 16, 2025	Conducted (TH03-HY)
Base Station (Measure)	Anritsu	MT8000A	6262148275	FR1	Oct. 20, 2024	Feb. 26, 2025~ Aug. 18, 2025	Oct. 19, 2025	Conducted (TH03-HY)
Power divider	Anritsu	K241C	2143398	9KHz~40GHz	Jun. 13, 2024	Feb. 26, 2025~ Aug. 18, 2025	Jun. 12, 2025	Conducted (TH03-HY)
Power divider	MVE	MVE8283	E800028	9KHz~18GHz	Aug. 23, 2024	Feb. 26, 2025~ Aug. 18, 2025	Aug. 22, 2025	Conducted (TH03-HY)
RF Cable	MVE	MCBL-LL403P.50	E80003C	9KHz~40GHz	Aug. 23, 2024	Feb. 26, 2025~ Aug. 18, 2025	Aug. 22, 2025	Conducted (TH03-HY)
Software 1	Sporton	FCC 5GNR_FSV3044_ 20231106	N/A	Conducted Test Item	N/A	Feb. 26, 2025~ Aug. 18, 2025	N/A	Conducted (TH03-HY)



6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.70 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.40 dB
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Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.60 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.70 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power (Average power and ERI/EIRP)

NR n7 Maximum Average Power [dBm] (GT - LC = 9 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
5	1	1	PI/2 BPSK	22.87	23.46	23.18	32.46	1.7620		
5	1	23		22.96	23.41	23.23				
5	12	6		22.83	23.45	23.19				
5	1	0		22.38	22.94	22.61				
5	1	24		22.38	22.91	22.67				
5	25	0		22.41	22.95	22.78				
5	1	1	QPSK	22.80	23.38	23.16				
5	1	23		22.84	23.39	23.36				
5	12	6		22.88	23.37	23.13				
5	1	0		21.91	22.34	22.18				
5	1	24		21.76	22.42	22.19				
5	25	0		21.84	22.42	22.21				
5	1	1	16-QAM	21.89	22.47	22.08	31.47	1.4028		
5	1	1	64-QAM	20.50	21.18	20.60				
5	1	1	256-QAM	18.36	19.05	18.57				
Limit	EIRP < 2W			Result			Pass			

NR n7 Maximum Average Power [dBm] (GT - LC = 9 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	22.85	23.43	23.16	32.43	1.7498		
10	1	50		22.90	23.36	23.17				
10	25	12		22.87	23.42	23.17				
10	1	0		22.33	22.97	22.63				
10	1	51		22.38	22.83	22.64				
10	50	0		22.35	22.93	22.95				
10	1	1	QPSK	22.92	23.37	23.12				
10	1	50		22.87	23.35	23.04				
10	25	12		22.91	23.39	23.14				
10	1	0		21.86	22.39	22.08				
10	1	51		21.80	22.30	22.30				
10	50	0		21.88	22.41	22.14				
10	1	1	16-QAM	21.76	22.44	22.26	31.44	1.3932		
10	1	1	64-QAM	20.53	20.91	20.62				
10	1	1	256-QAM	18.32	19.05	18.72				
Limit	EIRP < 2W			Result			Pass			

NR n7 Maximum Average Power [dBm] (GT - LC = 9 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	22.85	23.60	23.26	32.60	1.8197		
15	1	77		22.88	23.47	23.37				
15	36	18		22.97	23.53	23.38				
15	1	0		22.38	23.11	22.73				
15	1	78		22.33	22.97	22.86				
15	75	0		22.36	23.03	22.74				
15	1	1	QPSK	22.78	23.51	23.21				
15	1	77		22.78	23.34	23.45				
15	36	18		22.91	23.44	23.24				
15	1	0		21.82	22.60	22.28				
15	1	78		21.91	22.40	22.46				
15	75	0		21.87	22.53	22.29				
15	1	1	16-QAM	21.84	22.74	22.22	31.74	1.4928		
15	1	1	64-QAM	20.45	21.10	20.80				
15	1	1	256-QAM	18.39	19.20	18.98				
Limit	EIRP < 2W			Result			Pass			

NR n7 Maximum Average Power [dBm] (GT - LC = 9 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
20	1	1	PI/2 BPSK	22.86	23.40	23.12	32.52	1.7865		
20	1	104		22.75	23.19	23.23				
20	50	25		22.90	23.52	23.18				
20	1	0		22.34	23.01	22.63				
20	1	105		22.34	22.66	22.69				
20	100	0		22.36	22.87	22.56				
20	1	1	QPSK	22.86	23.44	23.06				
20	1	104		22.64	23.24	23.21				
20	50	25		22.82	23.46	23.13				
20	1	0		21.82	22.40	22.10				
20	1	105		21.66	22.19	22.19				
20	100	0		21.75	22.36	22.14				
20	1	1	16-QAM	21.94	22.61	21.95	31.61	1.4488		
20	1	1	64-QAM	20.30	21.06	20.63				
20	1	1	256-QAM	18.29	18.41	18.84				
Limit	EIRP < 2W			Result			Pass			

NR n7 Maximum Average Power [dBm] (GT - LC = 9 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
25	1	1	PI/2 BPSK	22.92	23.59	23.34	32.59	1.8155		
25	1	131		22.88	23.28	23.10				
25	64	32		22.84	23.47	23.25				
25	1	0		22.39	23.06	22.87				
25	1	132		22.31	22.75	22.74				
25	128	0		22.32	22.95	22.69				
25	1	1	QPSK	22.88	23.49	23.26				
25	1	131		22.75	23.19	22.95				
25	64	32		22.80	23.42	23.14				
25	1	0		21.91	22.58	22.33				
25	1	132		21.84	22.25	22.29				
25	128	0		21.86	22.45	22.26				
25	1	1	16-QAM	21.79	22.64	22.38	31.64	1.4588		
25	1	1	64-QAM	20.45	21.17	20.86				
25	1	1	256-QAM	18.51	19.07	18.81				
Limit	EIRP < 2W			Result			Pass			

NR n7 Maximum Average Power [dBm] (GT - LC = 9 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
30	1	1	PI/2 BPSK	23.00	23.72	23.43	32.72	1.8707		
30	1	158		22.84	23.27	23.29				
30	80	40		22.90	23.53	23.19				
30	1	0		22.43	23.06	22.80				
30	1	159		22.14	22.66	22.70				
30	160	0		22.27	22.90	22.74				
30	1	1	QPSK	22.93	23.63	23.38				
30	1	158		22.73	23.26	23.27				
30	80	40		22.88	23.45	23.43				
30	1	0		21.69	22.55	22.30				
30	1	159		21.59	22.25	22.11				
30	160	0		21.79	22.42	22.19				
30	1	1	16-QAM	21.83	22.46	22.32	31.46	1.3996		
30	1	1	64-QAM	20.28	21.08	20.55				
30	1	1	256-QAM	18.55	19.17	18.81				
Limit	EIRP < 2W			Result			Pass			

NR n7 Maximum Average Power [dBm] (GT - LC = 9 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
35	1	1	PI/2 BPSK	22.82	23.59	23.48	32.59	1.8155		
35	1	186		22.59	23.14	23.23				
35	90	45		22.95	23.46	23.37				
35	1	0		22.36	23.13	22.89				
35	1	187		22.10	22.71	22.71				
35	180	0		22.34	22.95	22.85				
35	1	1	QPSK	22.78	23.49	23.42				
35	1	186		22.47	23.12	23.11				
35	90	45		22.95	23.50	23.36				
35	1	0		21.81	22.47	22.36				
35	1	187		21.61	22.30	22.21				
35	180	0		21.85	22.52	22.32				
35	1	1	16-QAM	21.56	22.62	22.72	31.72	1.4859		
35	1	1	64-QAM	20.22	21.21	20.82				
35	1	1	256-QAM	18.46	18.72	19.06				
Limit	EIRP < 2W			Result			Pass			

NR n7 Maximum Average Power [dBm] (GT - LC = 9 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
40	1	1	PI/2 BPSK	22.87	23.68	23.46	32.68	1.8535		
40	1	214		22.59	23.11	23.20				
40	108	54		22.78	23.48	23.36				
40	1	0		22.45	23.16	23.06				
40	1	215		22.23	22.73	22.84				
40	216	0		22.32	22.98	22.90				
40	1	1	QPSK	22.81	23.59	23.46				
40	1	214		22.72	23.12	23.20				
40	108	54		22.83	23.46	23.31				
40	1	0		21.91	22.64	22.47				
40	1	215		21.57	22.07	22.18				
40	216	0		21.73	22.37	22.31				
40	1	1	16-QAM	21.91	22.65	22.68	31.68	1.4723		
40	1	1	64-QAM	20.10	21.09	20.81				
40	1	1	256-QAM	18.54	19.14	19.02				
Limit	EIRP < 2W			Result			Pass			

NR n7 Maximum Average Power [dBm] (GT - LC = 9 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
50	1	1	PI/2 BPSK	23.88	23.85	23.74	32.88	1.9409		
50	1	268		23.40	23.49	23.36				
50	135	67		23.77	23.64	23.56				
50	1	0		23.36	23.37	23.30				
50	1	269		22.83	22.77	22.82				
50	270	0		23.06	23.05	22.96				
50	1	1	QPSK	23.86	23.69	23.72				
50	1	268		23.32	23.28	23.29				
50	135	67		23.73	23.60	23.54				
50	1	0		22.85	22.85	22.76				
50	1	269		22.39	22.24	22.32				
50	270	0		22.66	22.59	22.48				
50	1	1	16-QAM	22.88	22.70	22.66	31.88	1.5417		
50	1	1	64-QAM	21.56	21.49	21.18				
50	1	1	256-QAM	18.91	19.58	19.31				
Limit	EIRP < 2W			Result			Pass			

NR n13 Maximum Average Power [dBm] (GT - LC = 8.1 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
5	1	1	PI/2 BPSK	25.73	25.85	25.75	31.83	1.5241		
5	1	23		25.81	25.73	25.79				
5	12	6		25.79	25.75	25.64				
5	1	0		25.27	25.32	25.14				
5	1	24		25.23	25.04	25.19				
5	25	0		25.35	25.16	25.10				
5	1	1	QPSK	25.66	25.77	25.60				
5	1	23		25.73	25.62	25.53				
5	12	6		25.88	25.68	25.57				
5	1	0		24.66	24.73	24.49				
5	1	24		24.70	24.58	24.71				
5	25	0		24.89	24.69	24.50				
5	1	1	16-QAM	24.47	24.76	24.55	30.71	1.1776		
5	1	1	64-QAM	23.44	23.52	23.12				
5	1	1	256-QAM	21.38	20.83	21.14				
Limit	ERP < 30W			Result			Pass			

NR n13 Maximum Average Power [dBm] (GT - LC = 8.1 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
10	1	1	PI/2 BPSK	-	25.89	-	31.84	1.5276		
10	1	50		-	25.80	-				
10	25	12		-	25.78	-				
10	1	0		-	25.14	-				
10	1	51		-	25.06	-				
10	50	0		-	25.19	-				
10	1	1	QPSK	-	25.86	-				
10	1	50		-	25.62	-				
10	25	12		-	25.65	-				
10	1	0		-	24.74	-				
10	1	51		-	24.55	-				
10	50	0		-	24.67	-				
10	1	1	16-QAM	-	24.55	-	30.50	1.1220		
10	1	1	64-QAM	-	23.27	-				
10	1	1	256-QAM	-	21.12	-				
Limit	ERP < 30W			Result			Pass			

NR n14 Maximum Average Power [dBm] (GT - LC = 8.2 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
5	1	1	PI/2 BPSK	25.69	25.67	25.64	31.76	1.4997		
5	1	23		25.57	25.51	25.53				
5	12	6		25.70	25.67	25.62				
5	1	0		25.28	25.10	25.11				
5	1	24		25.14	24.93	24.99				
5	25	0		25.17	25.00	25.06				
5	1	1	QPSK	25.71	25.55	25.54				
5	1	23		25.55	25.28	25.55				
5	12	6		25.65	25.53	25.61				
5	1	0		24.64	24.55	24.49				
5	1	24		24.52	24.36	24.48				
5	25	0		24.63	24.47	24.59				
5	1	1	16-QAM	24.65	24.51	24.63	30.70	1.1749		
5	1	1	64-QAM	23.13	23.31	23.12				
5	1	1	256-QAM	21.22	20.59	21.02				
Limit	ERP < 30W			Result			Pass			

NR n14 Maximum Average Power [dBm] (GT - LC = 8.2 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	ERP (dBm)	ERP(W)		
10	1	1	PI/2 BPSK	-	25.82	-	31.87	1.5382		
10	1	50		-	25.58	-				
10	25	12		-	25.70	-				
10	1	0		-	25.15	-				
10	1	51		-	24.92	-				
10	50	0		-	25.09	-				
10	1	1	QPSK	-	25.69	-				
10	1	50		-	25.52	-				
10	25	12		-	25.63	-				
10	1	0		-	24.67	-				
10	1	51		-	24.43	-				
10	50	0		-	24.60	-				
10	1	1	16-QAM	-	24.66	-	30.71	1.1776		
10	1	1	64-QAM	-	23.12	-				
10	1	1	256-QAM	-	21.41	-				
Limit	ERP < 30W			Result			Pass			

NR n30 Maximum Average Power [dBm] (GT - LC = 1.9 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
5	1	1	PI/2 BPSK	21.62	21.65	21.62	23.67	0.2328		
5	1	23		21.65	21.67	21.59				
5	12	6		21.77	21.73	21.71				
5	1	0		21.03	21.18	21.16				
5	1	24		21.12	21.08	21.18				
5	25	0		21.10	21.15	21.24				
5	1	1	QPSK	21.62	21.58	21.74				
5	1	23		21.57	21.53	21.70				
5	12	6		21.67	21.72	21.70				
5	1	0		20.65	20.63	20.61				
5	1	24		20.61	20.56	20.64				
5	25	0		20.68	20.68	20.75				
5	1	1	16-QAM	20.60	20.60	20.45	22.50	0.1778		
5	1	1	64-QAM	19.10	19.38	19.26				
5	1	1	256-QAM	17.15	17.33	17.36				
Limit	EIRP < 250 W/5MHz			Result			Pass			

NR n30 Maximum Average Power [dBm] (GT - LC = 1.9 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	-	21.74	-	23.69	0.2339		
10	1	50		-	21.79	-				
10	25	12		-	21.72	-				
10	1	0		-	21.10	-				
10	1	51		-	21.11	-				
10	50	0		-	21.12	-				
10	1	1	QPSK	-	21.63	-				
10	1	50		-	21.69	-				
10	25	12		-	21.70	-				
10	1	0		-	20.55	-				
10	1	51		-	20.63	-				
10	50	0		-	20.61	-				
10	1	1	16-QAM	-	20.58	-	22.48	0.1770		
10	1	1	64-QAM	-	19.36	-				
10	1	1	256-QAM	-	16.59	-				
Limit	EIRP < 250 W/5MHz			Result			Pass			

Total EIRP power is less than partial EIRP limit 250 mW/5MHz.

NR n70 Maximum Average Power [dBm] (GT - LC = 4.5 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
5	1	1	PI/2 BPSK	25.05	25.42	25.48	29.99	0.9977		
5	1	23		25.49	25.48	25.44				
5	12	6		25.32	25.48	25.43				
5	1	0		24.74	24.90	24.93				
5	1	24		24.92	24.99	24.99				
5	25	0		24.92	24.99	24.92				
5	1	1	QPSK	25.06	25.20	25.32				
5	1	23		25.40	25.40	25.34				
5	12	6		25.45	25.36	25.46				
5	1	0		24.26	24.34	24.34				
5	1	24		24.42	24.38	24.51				
5	25	0		24.43	24.41	24.52				
5	1	1	16-QAM	24.22	24.20	24.80	29.30	0.8511		
5	1	1	64-QAM	22.71	23.11	23.00				
5	1	1	256-QAM	20.96	20.35	21.02				
Limit	EIRP < 1W			Result			Pass			

NR n70 Maximum Average Power [dBm] (GT - LC = 4.5 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
10	1	1	PI/2 BPSK	25.16	25.39	25.43	29.98	0.9954		
10	1	50		25.48	25.41	25.35				
10	25	12		25.47	25.38	25.33				
10	1	0		24.83	24.82	25.09				
10	1	51		24.93	24.95	25.01				
10	50	0		24.97	24.90	25.03				
10	1	1	QPSK	25.05	25.38	25.47				
10	1	50		25.42	25.47	25.25				
10	25	12		25.38	25.45	25.36				
10	1	0		24.44	24.34	24.41				
10	1	51		24.34	24.50	24.44				
10	50	0		24.43	24.43	24.58				
10	1	1	16-QAM	24.09	24.14	24.50	29.00	0.7943		
10	1	1	64-QAM	23.28	22.76	22.97				
10	1	1	256-QAM	21.26	20.85	20.42				
Limit	EIRP < 1W			Result			Pass			

NR n70 Maximum Average Power [dBm] (GT - LC = 4.5 dB)										
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP(W)		
15	1	1	PI/2 BPSK	-	25.06	-	29.91	0.9795		
15	1	77		-	25.40	-				
15	36	18		-	25.41	-				
15	1	0		-	24.75	-				
15	1	78		-	24.94	-				
15	75	0		-	24.90	-				
15	1	1	QPSK	-	24.93	-				
15	1	77		-	25.38	-				
15	36	18		-	25.38	-				
15	1	0		-	24.37	-				
15	1	78		-	24.43	-				
15	75	0		-	24.37	-				
15	1	1	16-QAM	-	24.19	-	28.69	0.7396		
15	1	1	64-QAM	-	22.80	-				
15	1	1	256-QAM	-	20.88	-				
Limit	EIRP < 1W			Result			Pass			

NR n7 Maximum Average Power [dBm] (GT - LC = 9 dB)														
BW	RB	RB	Mod	Antenna 0			Antenna 3			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
5	1	1	QPSK	19.90	20.35	20.16	20.14	19.95	20.07	23.03	23.16	23.13	32.16	1.6444
5	1	23		19.95	20.37	20.19	20.09	19.86	19.88	23.03	23.13	23.05		
5	13	6		19.79	20.33	20.12	20.02	19.90	19.80	22.92	23.13	22.97		
5	1	0		18.34	18.88	18.55	18.48	18.46	18.37	21.42	21.69	21.47		
5	1	24		18.29	18.89	18.68	18.53	18.39	18.36	21.42	21.66	21.53		
5	25	0		18.33	18.87	18.79	18.67	18.58	18.38	21.51	21.74	21.60		
5	1	1	16-QAM	19.36	19.99	19.50	19.61	19.64	19.15	22.50	22.83	22.34	31.83	1.5241
5	1	1	64-QAM	17.70	18.35	18.16	18.00	17.96	18.06	20.86	21.17	21.12		
5	1	1	256-QAM	14.93	15.61	15.00	15.25	15.08	15.06	18.10	18.36	18.04		
Limit	EIRP < 2W			Result									Pass	

NR n7 Maximum Average Power [dBm] (GT - LC = 9 dB)														
BW	RB	RB	Mod	Antenna 0			Antenna 3			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	19.87	20.48	20.01	20.06	20.13	20.02	22.98	23.32	23.03	32.32	1.7061
10	1	50		19.81	20.45	20.21	19.95	19.92	19.75	22.89	23.20	23.00		
10	26	13		19.86	20.32	20.14	19.97	19.93	19.90	22.93	23.14	23.03		
10	1	0		18.26	19.02	18.65	18.58	18.55	18.44	21.43	21.80	21.56		
10	1	51		18.21	18.81	18.71	18.37	18.35	18.39	21.30	21.60	21.56		
10	52	0		18.22	18.87	18.68	18.41	18.52	18.30	21.33	21.71	21.50		
10	1	1	16-QAM	19.41	20.12	19.36	19.51	19.48	19.45	22.47	22.82	22.42	31.82	1.5205
10	1	1	64-QAM	17.94	18.16	18.05	17.78	18.18	17.89	20.87	21.18	20.98		
10	1	1	256-QAM	14.66	15.67	15.31	15.07	15.32	15.25	17.88	18.51	18.29		
Limit	EIRP < 2W			Result									Pass	

NR n7 Maximum Average Power [dBm] (GT - LC = 9 dB)														
BW	RB	RB	Mod	Antenna 0			Antenna 3			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
15	1	1	QPSK	19.92	20.55	20.18	20.05	20.18	20.21	23.00	23.38	23.21	32.38	1.7298
15	1	77		19.92	20.33	20.26	19.83	19.96	20.04	22.89	23.16	23.16		
15	39	19		19.82	20.28	20.14	19.85	19.83	20.02	22.85	23.07	23.09		
15	1	0		18.38	19.10	18.68	18.52	18.62	18.54	21.46	21.88	21.62		
15	1	78		18.30	18.91	18.89	18.26	18.53	18.51	21.29	21.73	21.71		
15	79	0		18.35	18.90	18.71	18.41	18.41	18.44	21.39	21.67	21.59		
15	1	1	16-QAM	19.38	19.93	19.65	19.64	19.39	19.52	22.52	22.68	22.60	31.68	1.4723
15	1	1	64-QAM	17.95	18.71	18.32	17.91	18.27	17.89	20.94	21.51	21.12		
15	1	1	256-QAM	14.95	15.56	15.14	15.19	15.35	15.46	18.08	18.47	18.31		
Limit	EIRP < 2W			Result									Pass	

NR n7 Maximum Average Power [dBm] (GT - LC = 9 dB)														
BW	RB	RB	Mod	Antenna 0			Antenna 3			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
20	1	1	QPSK	19.87	20.62	20.17	20.06	20.36	20.07	22.98	23.50	23.13	32.50	1.7783
20	1	104		19.86	20.35	20.19	19.76	19.86	19.89	22.82	23.12	23.05		
20	53	26		19.87	20.33	20.15	19.93	19.92	20.08	22.91	23.14	23.13		
20	1	0		18.37	19.07	18.79	18.58	18.74	18.52	21.49	21.92	21.67		
20	1	105		18.19	18.73	18.86	18.10	18.42	18.46	21.16	21.59	21.67		
20	106	0		18.39	18.97	18.73	18.28	18.43	18.57	21.35	21.72	21.66		
20	1	1	16-QAM	19.43	19.97	19.67	19.67	19.47	19.31	22.56	22.74	22.50	31.74	1.4928
20	1	1	64-QAM	18.24	18.61	18.37	17.97	18.43	18.02	21.12	21.53	21.21		
20	1	1	256-QAM	14.89	15.63	15.32	15.27	15.31	15.06	18.09	18.48	18.20		
Limit	EIRP < 2W			Result									Pass	

NR n7 Maximum Average Power [dBm] (GT - LC = 9 dB)														
BW	RB	RB	Mod	Antenna 0			Antenna 3			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
25	1	1	QPSK	19.93	20.84	20.39	20.28	20.38	19.84	23.12	23.63	23.13	32.63	1.8323
25	1	131		19.85	20.31	20.08	19.78	20.01	19.94	22.83	23.17	23.02		
25	67	33		20.00	20.44	20.27	20.12	20.06	20.08	23.07	23.26	23.19		
25	1	0		18.53	19.23	18.84	18.67	18.94	18.48	21.61	22.10	21.67		
25	1	132		18.50	18.92	18.80	18.10	18.50	18.46	21.31	21.73	21.64		
25	133	0		18.44	18.91	18.65	18.55	18.60	18.49	21.51	21.77	21.58		
25	1	1	16-QAM	19.68	20.35	19.89	19.34	19.85	19.65	22.52	23.12	22.78	32.12	1.6293
25	1	1	64-QAM	17.82	18.71	18.50	18.15	18.24	17.65	21.00	21.49	21.11		
25	1	1	256-QAM	14.92	15.80	15.42	15.40	15.49	15.18	18.18	18.66	18.31		
Limit	EIRP < 2W			Result									Pass	

NR n7 Maximum Average Power [dBm] (GT - LC = 9 dB)														
BW	RB	RB	Mod	Antenna 0			Antenna 3			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
30	1	1	QPSK	20.04	20.85	20.44	20.24	20.59	20.13	23.15	23.73	23.30	32.73	1.8750
30	1	158		19.90	20.34	20.41	19.55	20.09	20.09	22.74	23.23	23.26		
30	80	40		19.96	20.47	20.22	19.78	20.05	20.03	22.88	23.28	23.14		
30	1	0		18.48	19.41	18.91	18.60	18.95	18.51	21.55	22.20	21.72		
30	1	159		18.29	18.89	18.81	17.95	18.51	18.37	21.13	21.71	21.61		
30	160	0		18.40	18.89	18.74	18.27	18.60	18.37	21.35	21.76	21.57		
30	1	1	16-QAM	19.53	20.29	19.78	19.52	20.03	19.56	22.54	23.17	22.68	32.17	1.6482
30	1	1	64-QAM	18.22	18.59	18.58	18.06	18.55	18.03	21.15	21.58	21.32		
30	1	1	256-QAM	15.08	15.75	15.57	15.27	15.44	15.15	18.19	18.61	18.38		
Limit	EIRP < 2W			Result									Pass	

NR n7 Maximum Average Power [dBm] (GT - LC = 9 dB)														
BW	RB	RB	Mod	Antenna 0			Antenna 3			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
35	1	1	QPSK	20.03	20.74	20.53	20.25	20.66	20.25	23.15	23.71	23.40	32.71	1.8664
35	1	186		19.87	20.25	20.29	19.51	20.01	20.17	22.70	23.14	23.24		
35	94	47		19.85	20.56	20.38	19.83	20.08	20.09	22.85	23.34	23.25		
35	1	0		18.45	19.44	19.04	18.63	19.10	18.57	21.55	22.28	21.82		
35	1	187		18.15	18.80	18.92	17.72	18.44	18.51	20.95	21.63	21.73		
35	188	0		18.40	18.97	18.85	18.23	18.61	18.55	21.33	21.80	21.71		
35	1	1	16-QAM	19.81	19.99	20.16	19.54	20.19	19.71	22.69	23.10	22.95	32.10	1.6218
35	1	1	64-QAM	17.99	18.87	18.60	18.24	18.75	17.90	21.13	21.82	21.27		
35	1	1	256-QAM	14.93	15.92	15.47	15.27	15.66	15.14	18.11	18.80	18.32		
Limit	EIRP < 2W			Result									Pass	

NR n7 Maximum Average Power [dBm] (GT - LC = 9 dB)														
BW	RB	RB	Mod	Antenna 0			Antenna 3			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
40	1	1	QPSK	20.05	20.89	20.64	20.25	20.61	20.24	23.16	23.76	23.45	32.76	1.8880
40	1	214		19.71	20.38	20.32	19.37	20.10	19.96	22.55	23.25	23.15		
40	108	54		19.87	20.48	20.40	19.68	20.07	20.11	22.79	23.29	23.27		
40	1	0		18.34	19.26	19.01	18.63	19.08	18.66	21.50	22.18	21.85		
40	1	215		18.20	18.64	19.03	17.85	18.59	18.60	21.04	21.63	21.83		
40	216	0		18.54	19.04	18.98	18.33	18.78	18.62	21.45	21.92	21.81		
40	1	1	16-QAM	19.52	20.28	20.10	19.33	20.27	19.91	22.44	23.29	23.02	32.29	1.6943
40	1	1	64-QAM	18.11	19.01	18.58	18.30	18.90	18.00	21.22	21.97	21.31		
40	1	1	256-QAM	15.00	15.78	15.69	15.27	15.96	15.38	18.15	18.88	18.55		
Limit	EIRP < 2W			Result									Pass	

NR n7 Maximum Average Power [dBm] (GT - LC = 9 dB)														
BW	RB	RB	Mod	Antenna 0			Antenna 3			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
50	1	1	QPSK	20.89	20.83	20.83	20.82	20.80	20.72	23.87	23.83	23.79	32.87	1.9364
50	1	268		20.56	20.67	20.55	20.23	20.36	20.17	23.41	23.53	23.37		
50	135	67		20.79	20.67	20.54	20.45	20.21	20.11	23.63	23.46	23.34		
50	1	0		19.46	19.39	19.54	19.58	19.51	19.26	22.53	22.46	22.41		
50	1	269		19.11	18.94	18.95	18.61	18.73	18.58	21.88	21.85	21.78		
50	270	0		19.19	19.16	19.00	19.03	18.84	18.75	22.12	22.01	21.89		
50	1	1	16-QAM	20.29	20.25	20.44	20.64	20.59	19.94	23.48	23.43	23.21	32.48	1.7701
50	1	1	64-QAM	19.05	18.85	19.07	19.14	18.96	18.67	22.11	21.92	21.88		
50	1	1	256-QAM	15.90	16.22	15.81	16.16	16.12	15.78	19.04	19.18	18.81		
Limit	EIRP < 2W			Result									Pass	

NR n30 Maximum Average Power [dBm] (GT - LC = 1.9 dB)														
BW	RB	RB	Mod	Antenna 0			Antenna 3			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
5	1	1	QPSK	18.54	18.58	18.76	18.69	18.60	18.86	21.63	21.60	21.82	23.72	0.2355
5	1	23		18.62	18.75	18.62	18.68	18.64	18.62	21.66	21.71	21.63		
5	13	6		18.59	18.64	18.65	18.49	18.57	18.60	21.55	21.62	21.64		
5	1	0		17.05	17.14	17.40	16.99	17.17	17.13	20.03	20.17	20.28		
5	1	24		17.07	17.07	17.30	16.97	16.98	16.98	20.03	20.04	20.15		
5	25	0		17.17	17.15	17.25	17.13	17.14	17.13	20.16	20.16	20.20		
5	1	1		16-QAM	18.15	18.07	18.12	18.12	18.15	18.12	21.15	21.12		
5	1	1	64-QAM	16.52	16.49	16.76	16.40	16.60	16.62	19.47	19.56	19.70		
5	1	1	256-QAM	13.53	13.60	13.62	13.85	13.81	13.95	16.70	16.72	16.80		
Limit	EIRP < 250 mW/5MHz			Result									Pass	

NR n30 Maximum Average Power [dBm] (GT - LC = 1.9 dB)														
BW	RB	RB	Mod	Antenna 0			Antenna 3			Combine			EIRP	EIRP
(MHz)	Size	Offset		Lowest	Middle	Highest	Lowest	Middle	Highest	Lowest	Middle	Highest	(dBm)	(W)
10	1	1	QPSK	-	18.53	-	-	18.71	-	-	21.63	-	23.53	0.2254
10	1	50		-	18.65	-	-	18.51	-	-	21.59	-		
10	26	13		-	18.58	-	-	18.44	-	-	21.52	-		
10	1	0		-	17.04	-	-	17.09	-	-	20.08	-		
10	1	51		-	17.25	-	-	17.00	-	-	20.14	-		
10	52	0		-	17.10	-	-	16.98	-	-	20.05	-		
10	1	1	16-QAM	-	18.14	-	-	18.20	-	-	21.18	-	23.08	0.2032
10	1	1	64-QAM	-	16.62	-	-	16.42	-	-	19.53	-		
10	1	1	256-QAM	-	13.50	-	-	13.60	-	-	16.56	-		
Limit	EIRP < 250 mW/5MHz			Result									Pass	

Total EIRP power is less than partial EIRP limit 250 mW/5MHz.

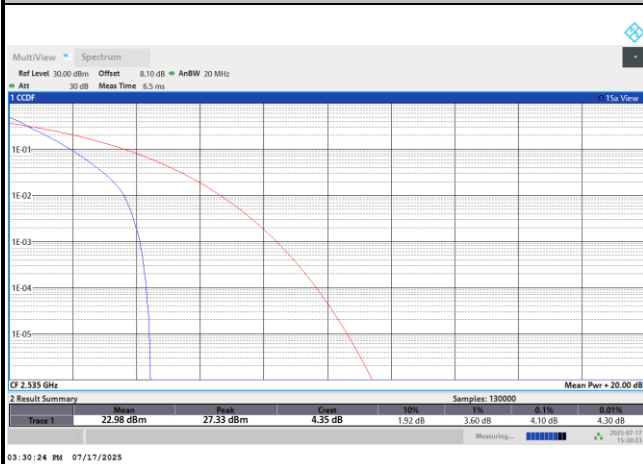
**FR1 n7****<SISO Mode>****Peak-to-Average Ratio**

Mode	FR1 n7 / 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	4.10	4.60	5.94	6.30	PASS
Mode	FR1 n7 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.82				PASS

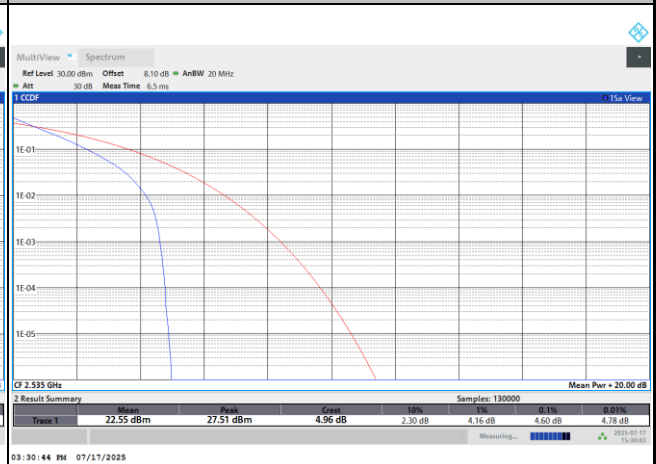


FR1 n7 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

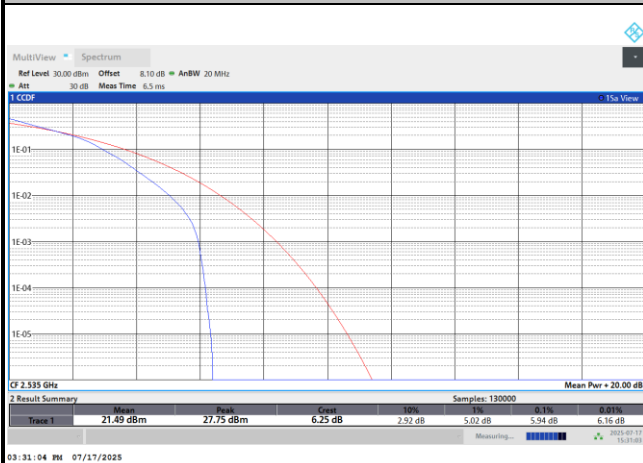
PI/2 BPSK



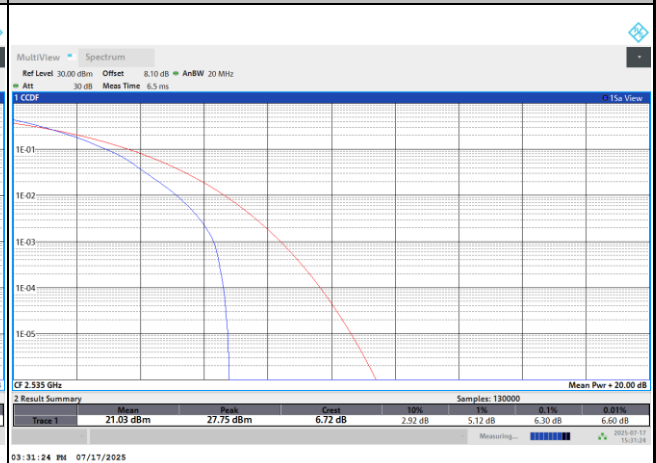
QPSK



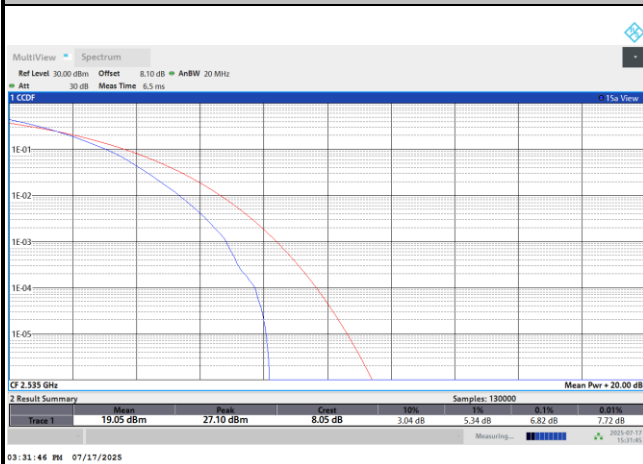
16QAM



64QAM



256QAM



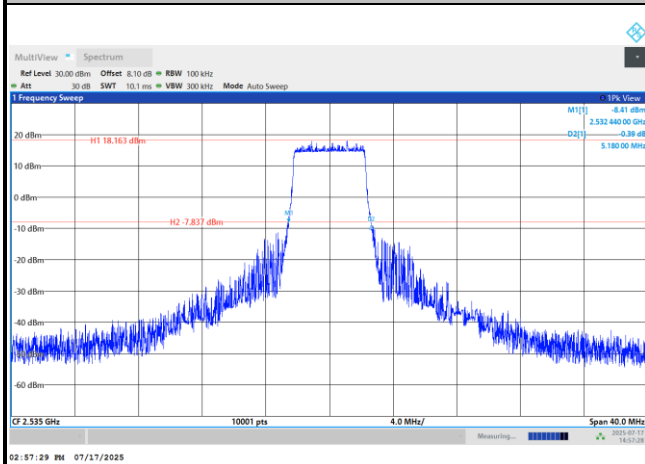
**26dB Bandwidth**

Mode	FR1 n7 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	5.18	5.26	9.81	9.88	14.64	16.45	19.59	20.60
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	5.38		10.00		16.26		21.95	
BW	25MHz		30MHz		35MHz		40MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	24.92	25.13	32.41	32.85	35.83	35.24	43.13	43.79
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	26.62		32.65		36.16		41.89	
BW	50MHz							
Mod.	PI/2 BPSK	QPSK						
Middle CH	50.81	50.99						
Mod.	16QAM							
Middle CH	52.59							

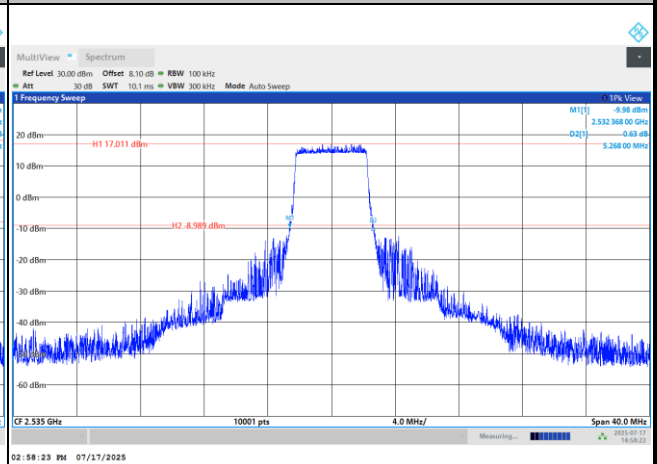


FR1 n7 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

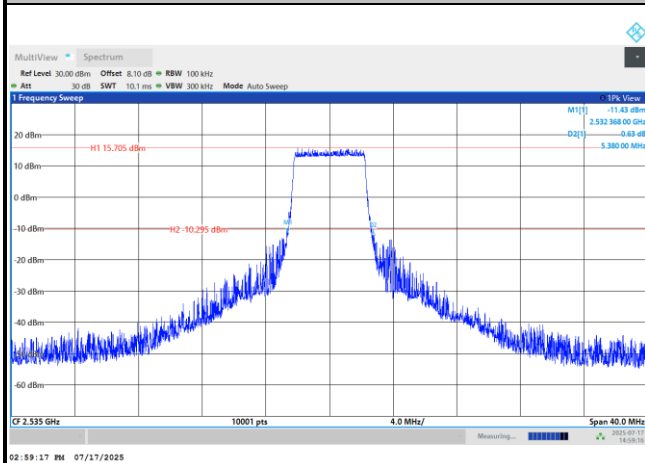
PI/2 BPSK



QPSK



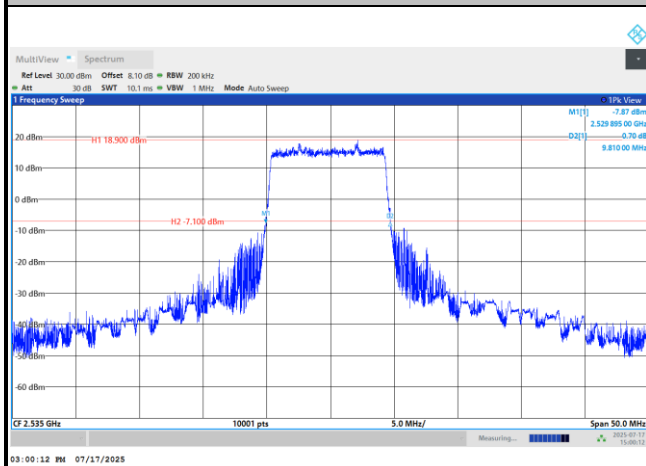
16QAM



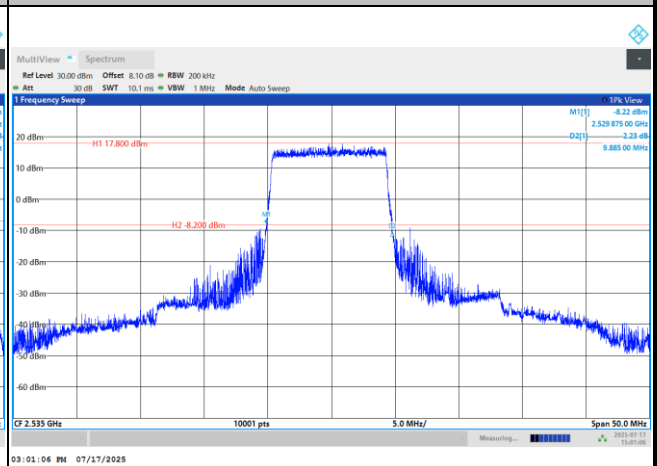


FR1 n7 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

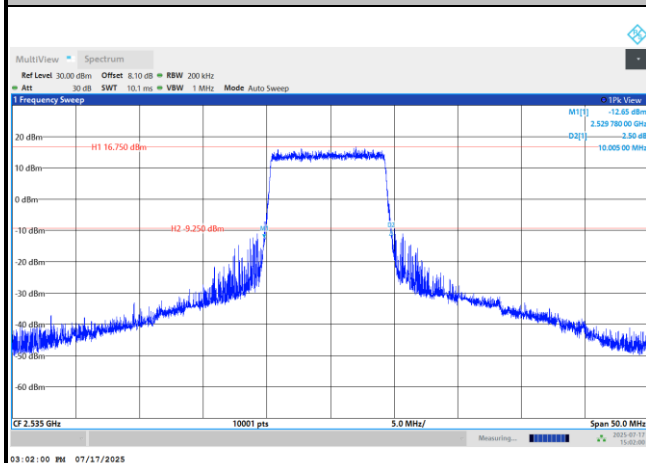
PI/2 BPSK



QPSK



16QAM

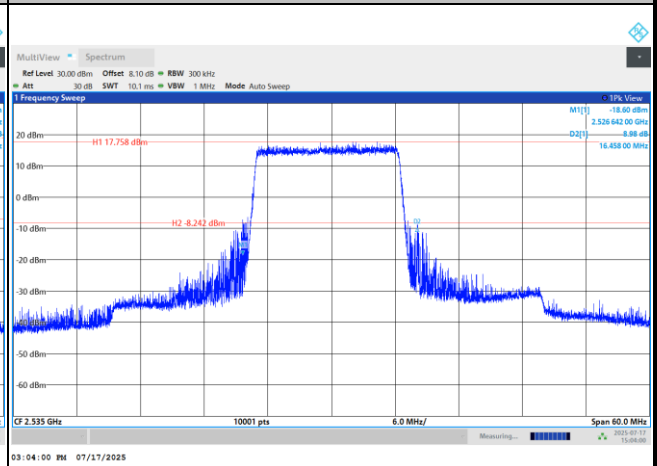
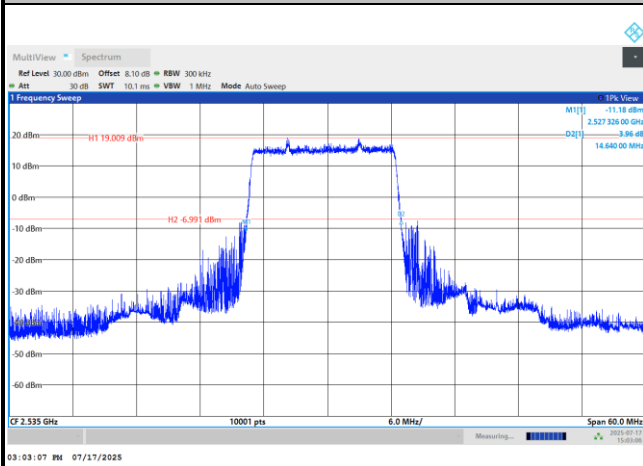




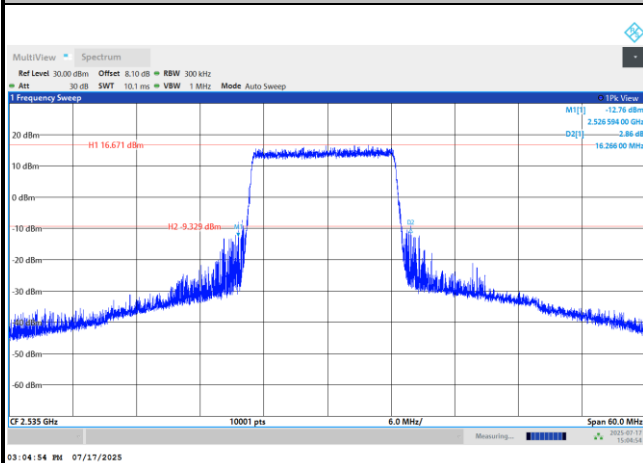
FR1 n7 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

QPSK



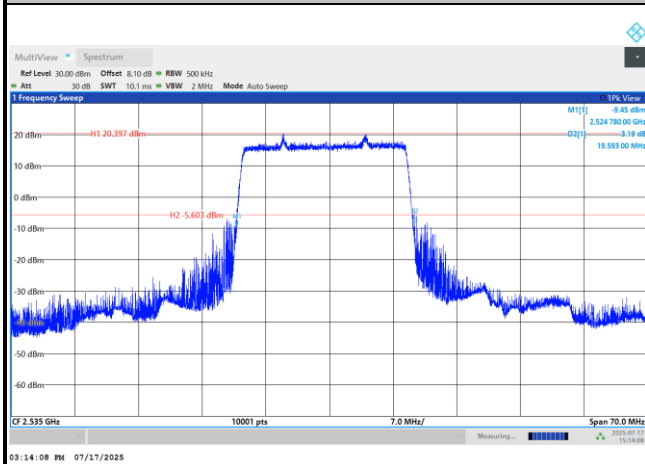
16QAM



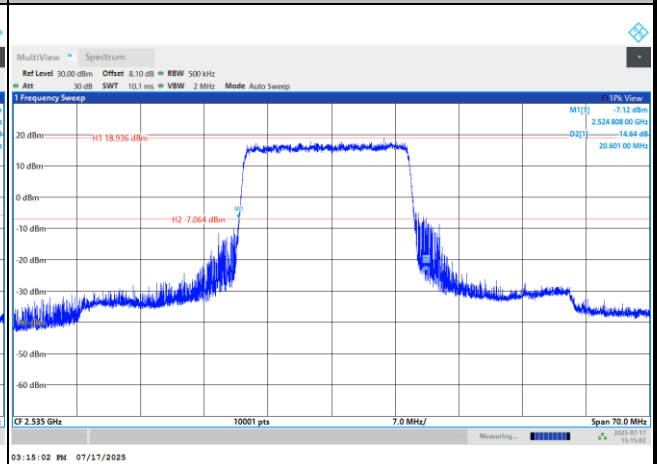


FR1 n7 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

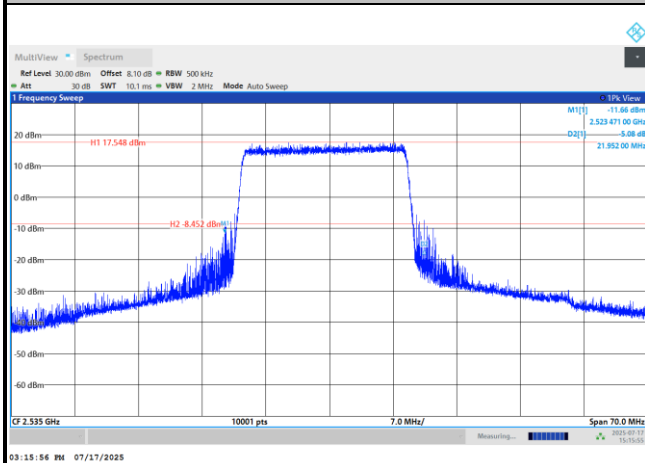
PI/2 BPSK



QPSK



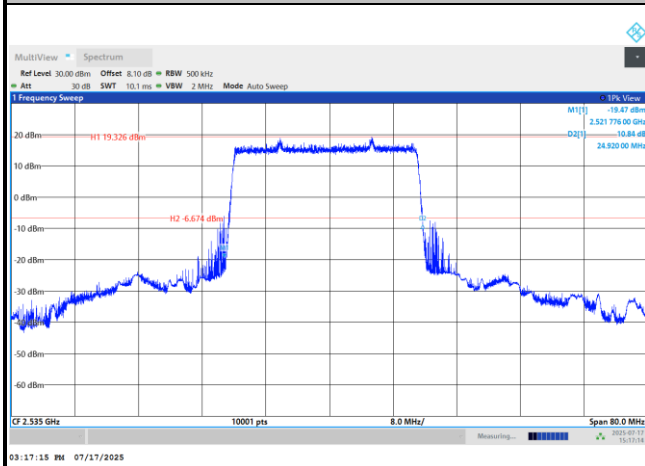
16QAM



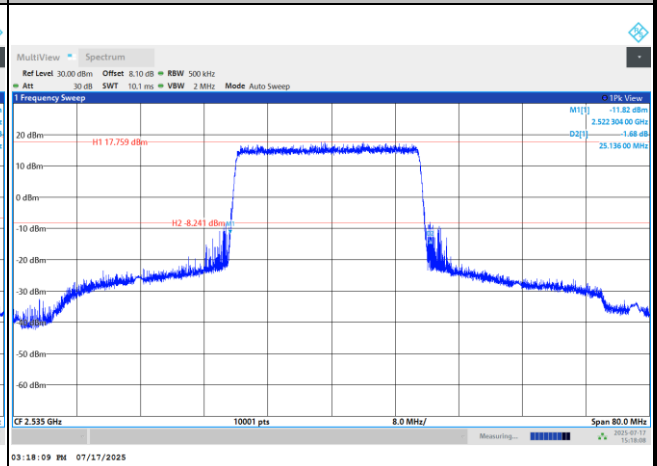


FR1 n7 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

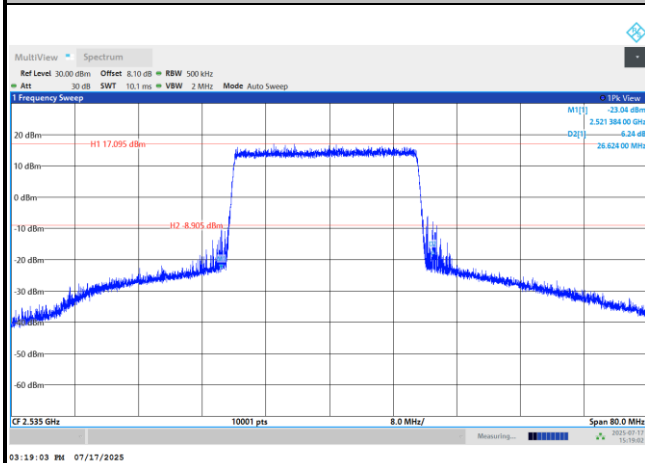
PI/2 BPSK



QPSK



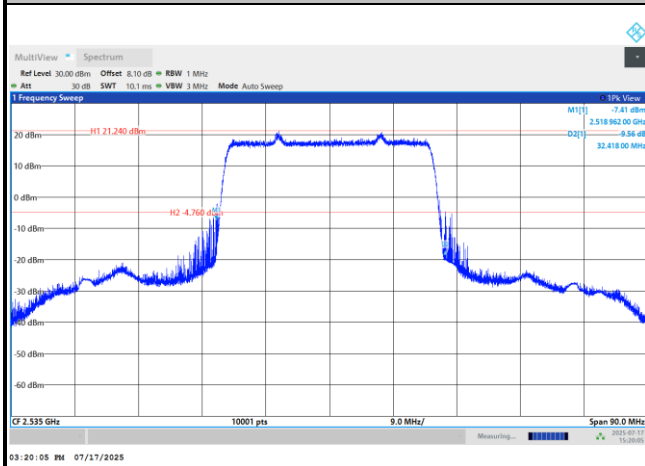
16QAM



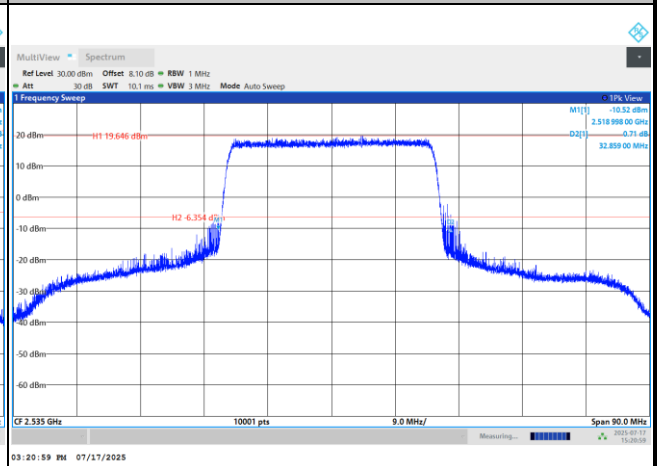


FR1 n7 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

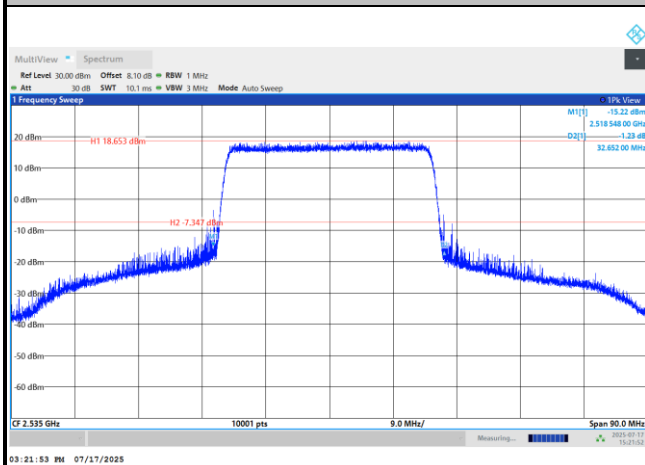
PI/2 BPSK



QPSK



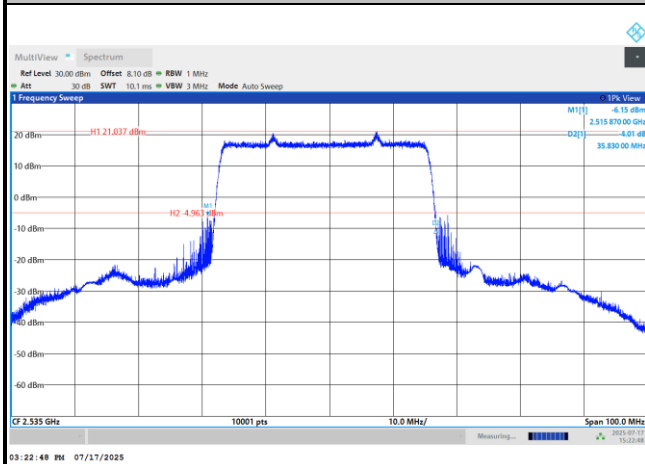
16QAM



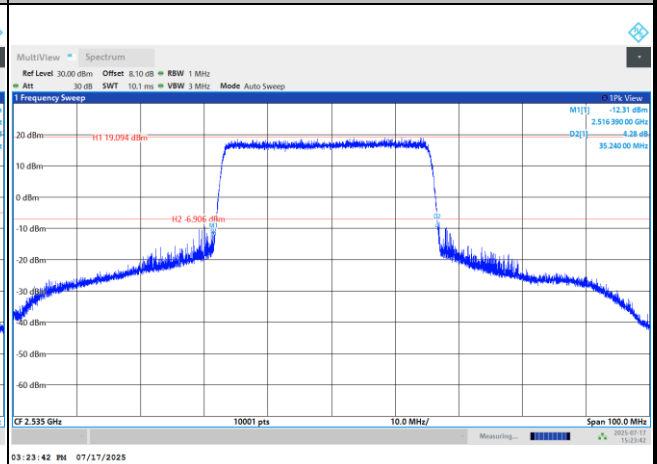


FR1 n7 / 35MHz / DFT-S OFDM / Middle Channel / Full RB

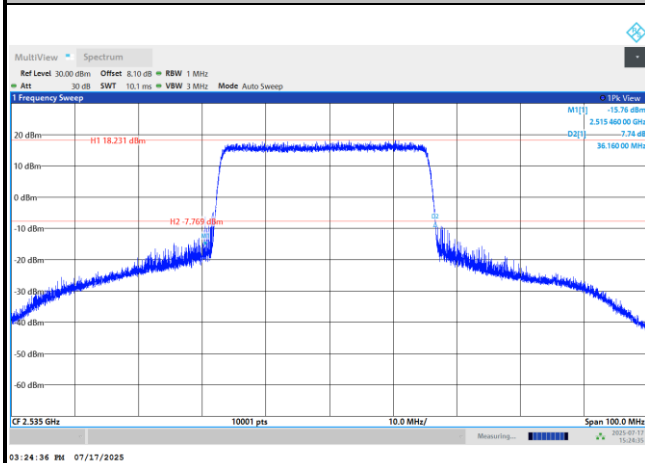
PI/2 BPSK



QPSK



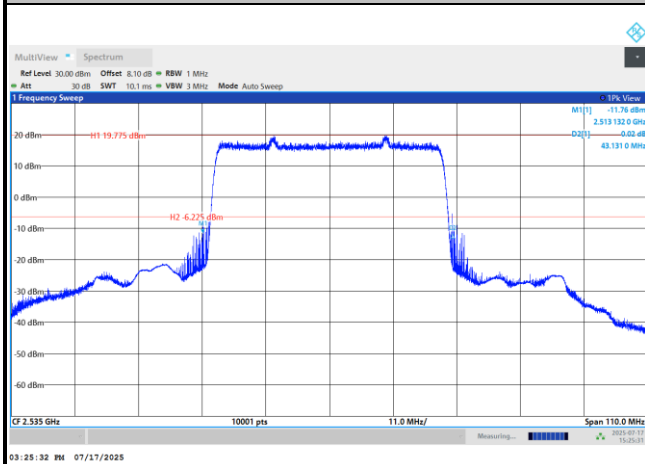
16QAM



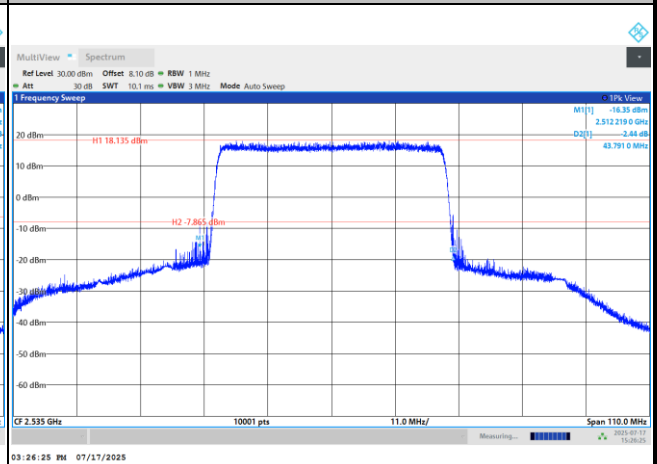


FR1 n7 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

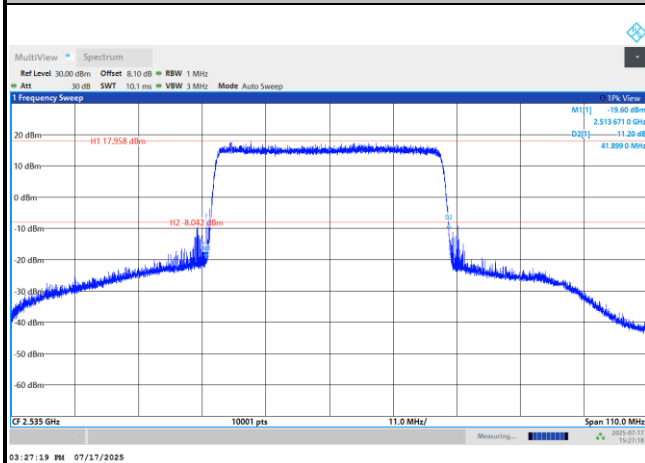
PI/2 BPSK



QPSK

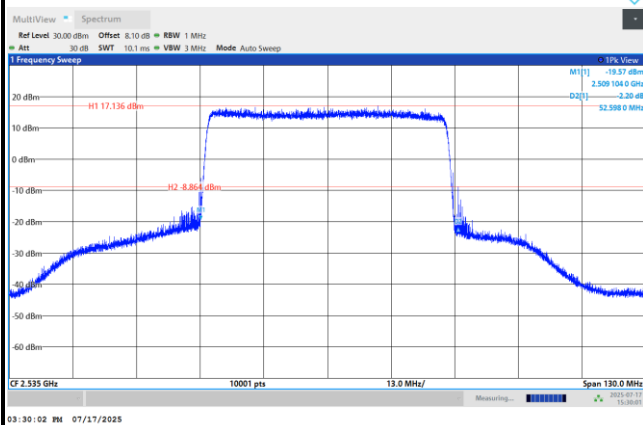
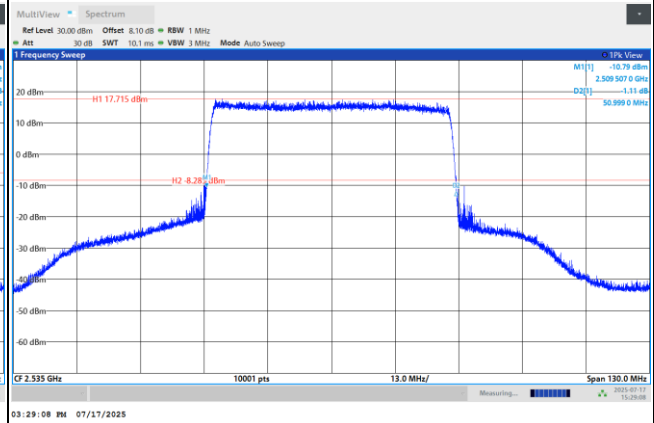


16QAM



**FR1 n7 / 50MHz / DFT-S OFDM / Middle Channel / Full RB**

QPSK



**Occupied Bandwidth**

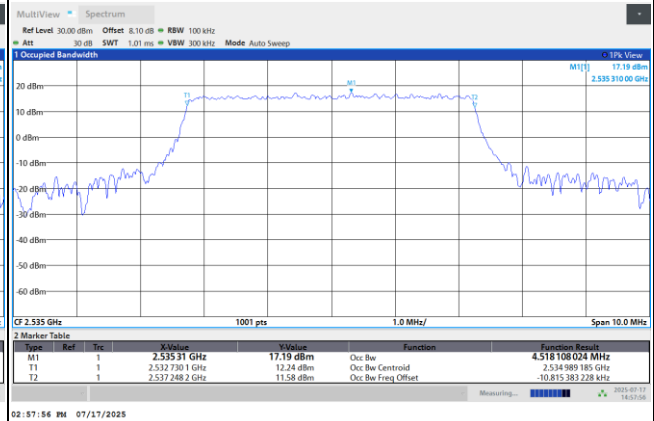
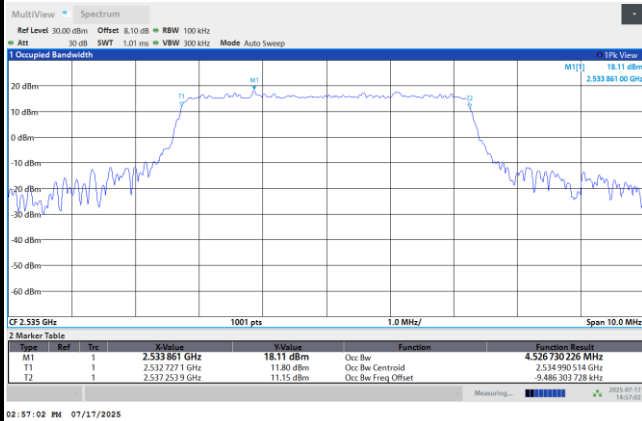
Mode	FR1 n7 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	4.52	4.51	8.99	8.98	13.50	13.51	18.05	17.96
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	4.52		9.00		13.50		18.00	
BW	25MHz		30MHz		35MHz		40MHz	
Mod.	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK	PI/2 BPSK	QPSK
Middle CH	23.00	23.01	28.98	28.91	32.46	32.45	38.84	38.74
Mod.	16QAM		16QAM		16QAM		16QAM	
Middle CH	22.98		28.89		32.42		38.80	
BW	50MHz							
Mod.	PI/2 BPSK	QPSK						
Middle CH	48.31	48.28						
Mod.	16QAM							
Middle CH	48.24							



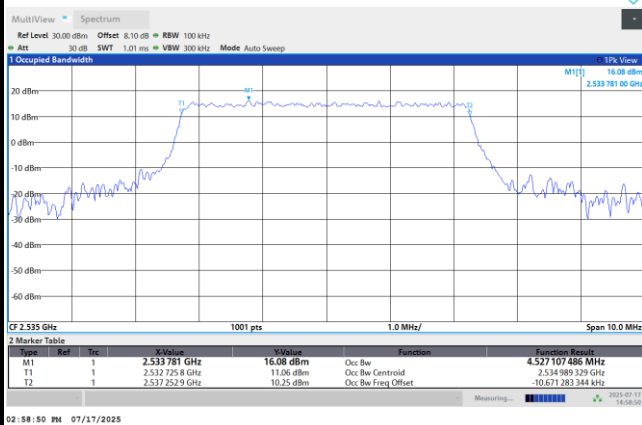
FR1 n7 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK

QPSK



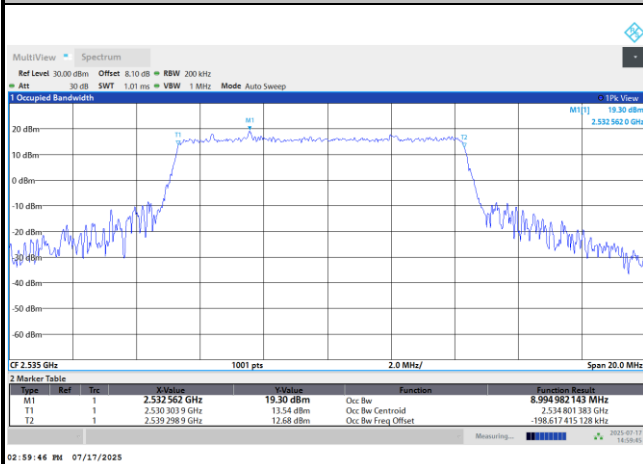
16QAM





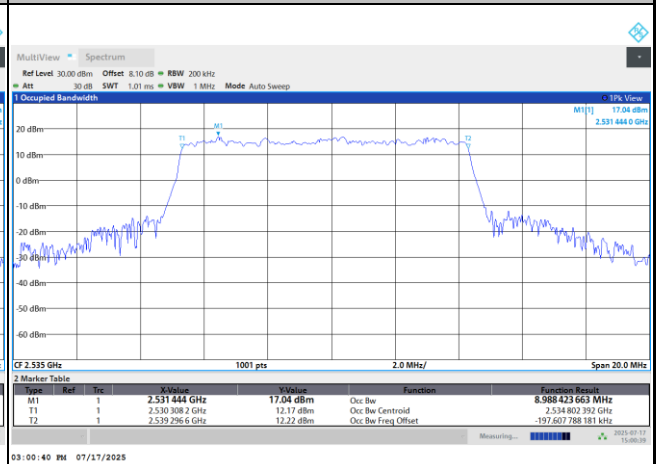
FR1 n7 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



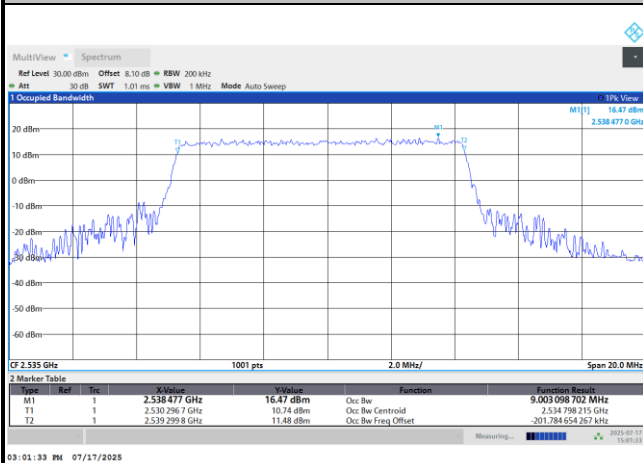
02:59:46 PM 07/17/2025

QPSK



03:00:40 PM 07/17/2025

16QAM

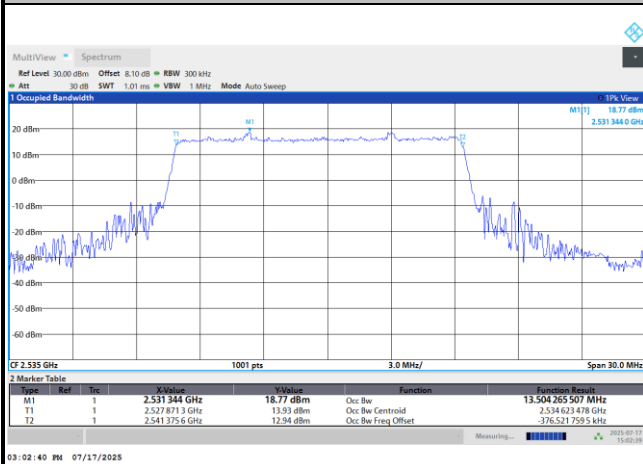


03:01:33 PM 07/17/2025



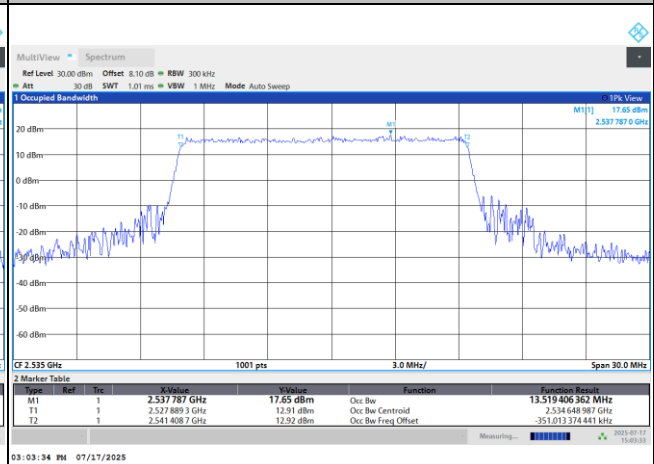
FR1 n7 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



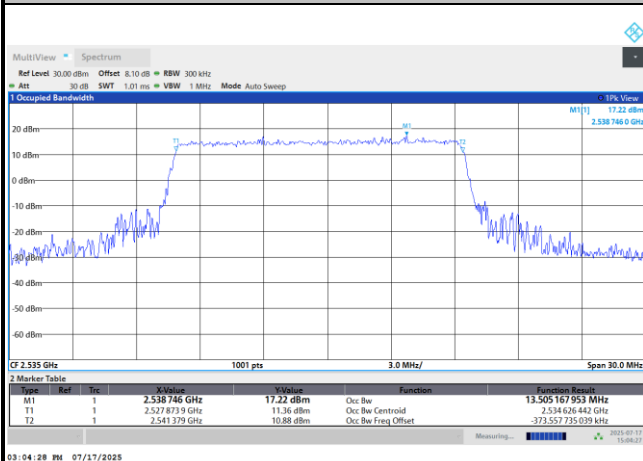
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QPSK



03:03:34 PM 07/17/2025

16QAM

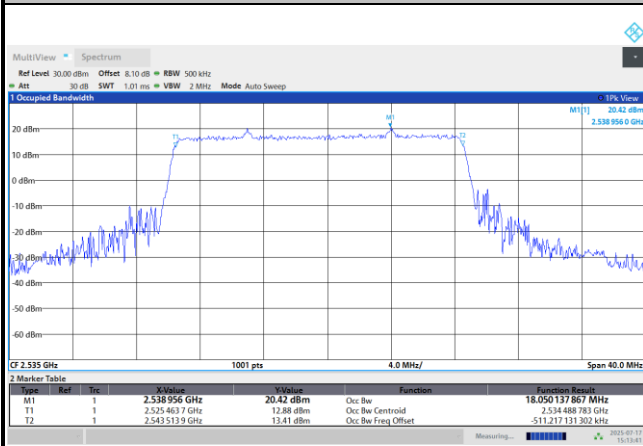


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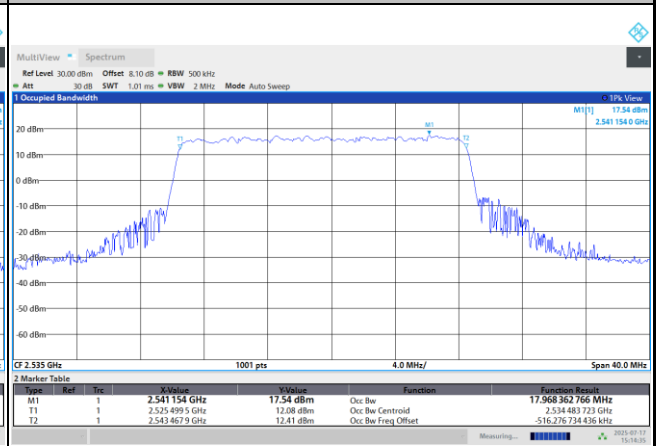


FR1 n7 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

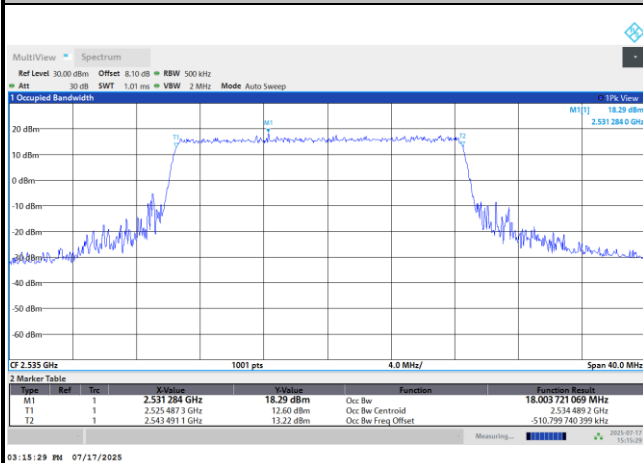
PI/2 BPSK



QPSK



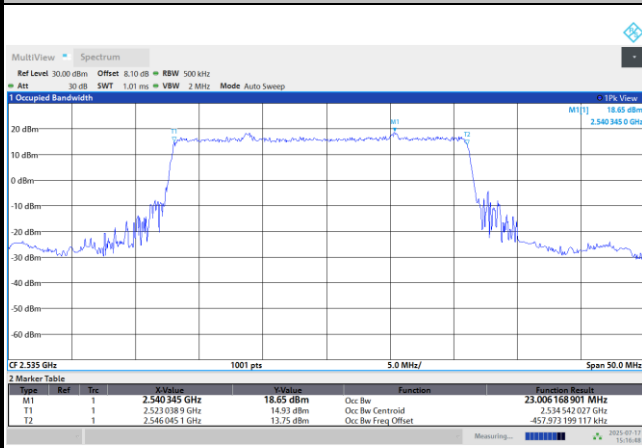
16QAM





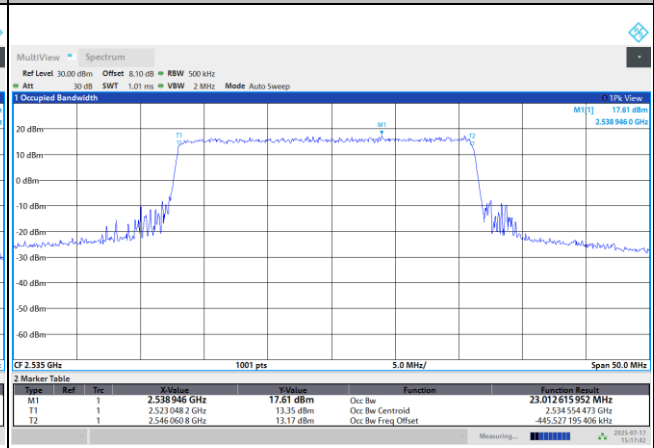
FR1 n7 / 25MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



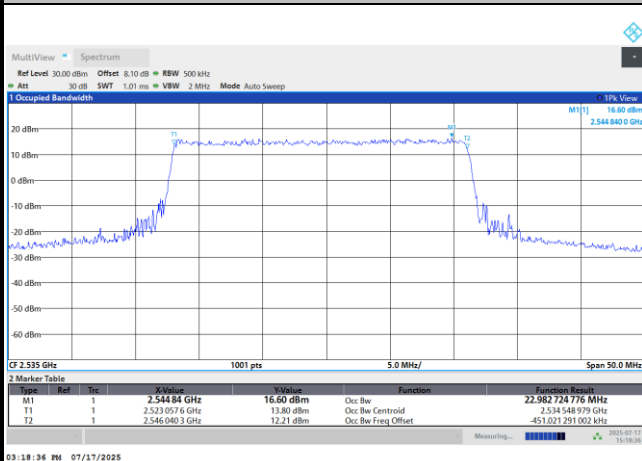
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QPSK



03:17:42 PM 07/17/2025

16QAM

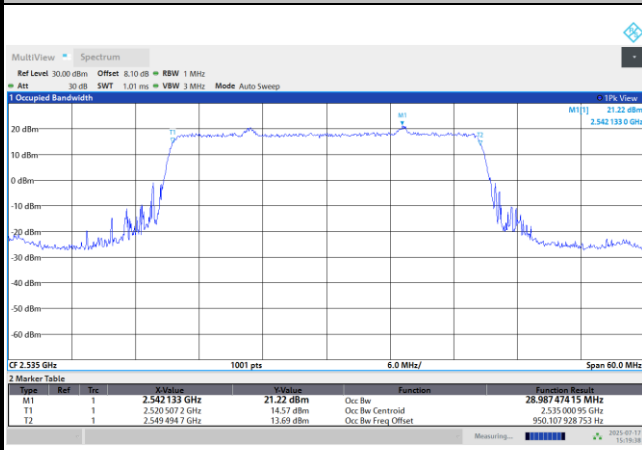


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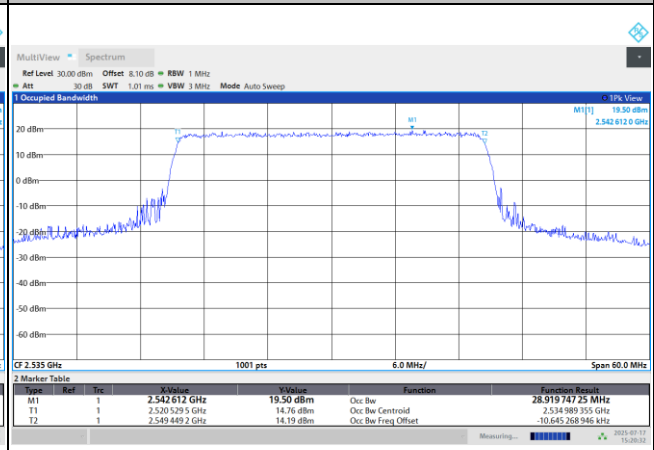
FR1 n7 / 30MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



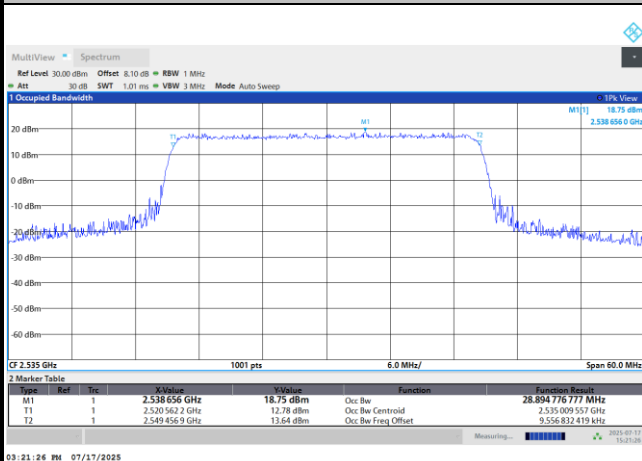
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QPSK



03:20:33 PM 07/17/2025

16QAM

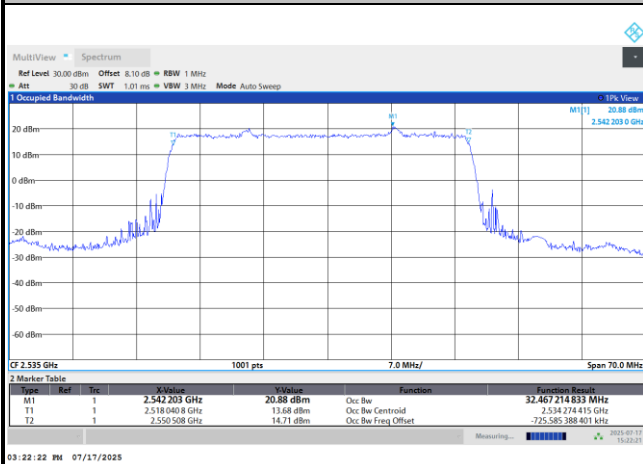


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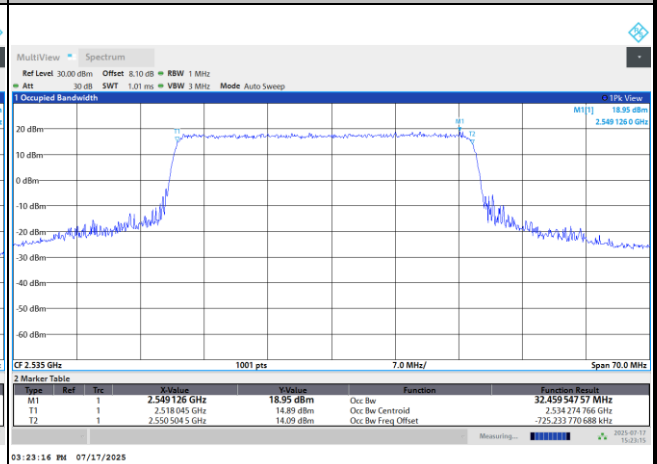
FR1 n7 / 35MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



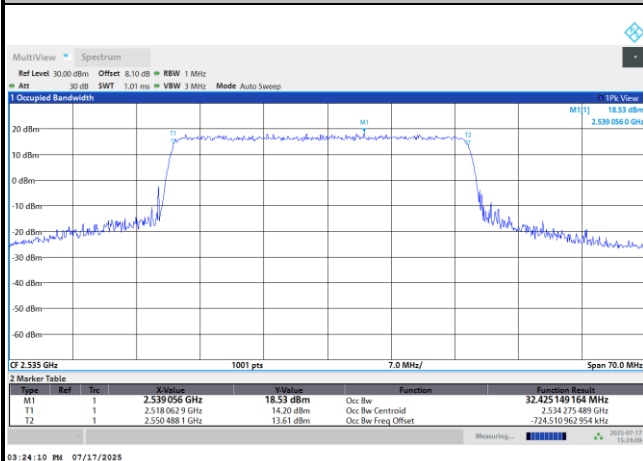
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QPSK



03:23:16 PM 07/17/2025

16QAM

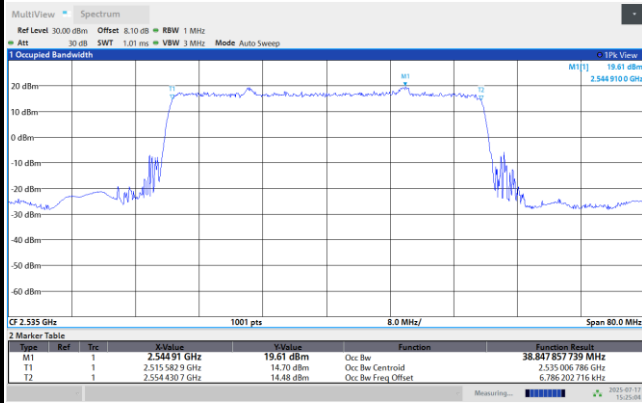


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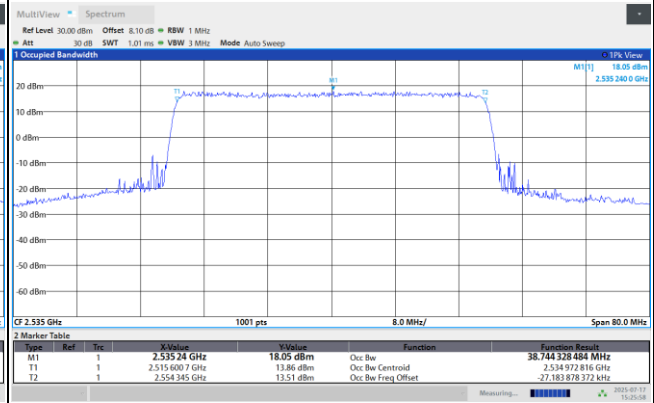
FR1 n7 / 40MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



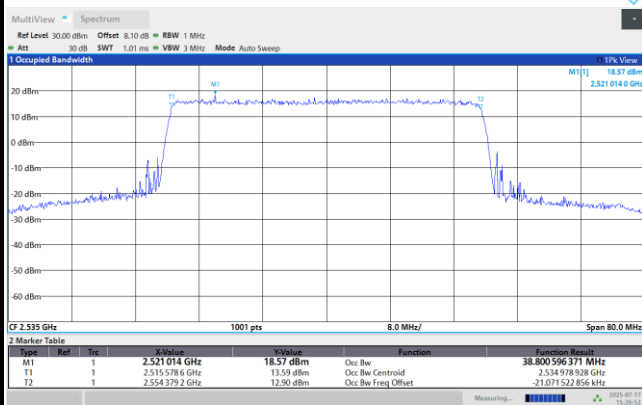
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QPSK



03:25:59 PM 07/17/2025

16QAM

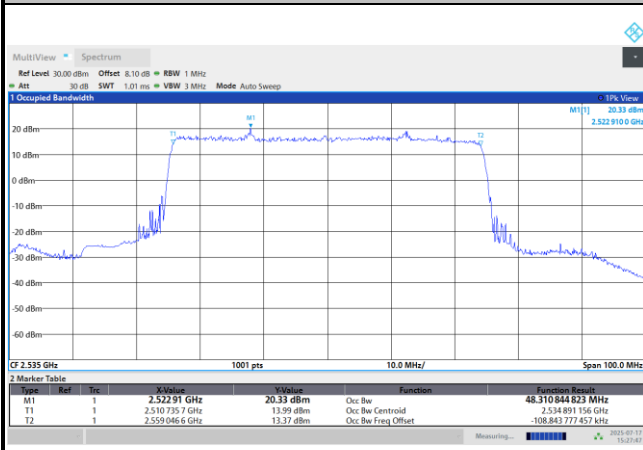


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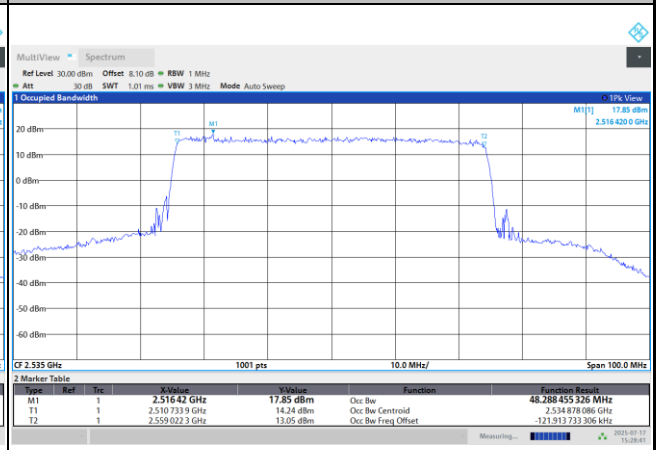
FR1 n7 / 50MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



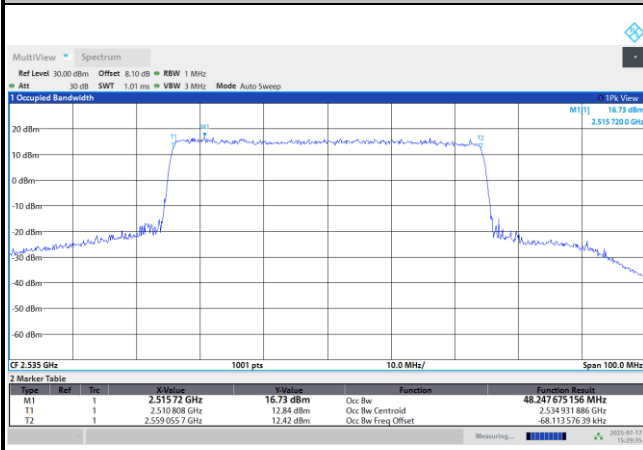
03:27:48 PM 07/17/2025

QPSK



03:28:42 PM 07/17/2025

16QAM



03:29:35 PM 07/17/2025

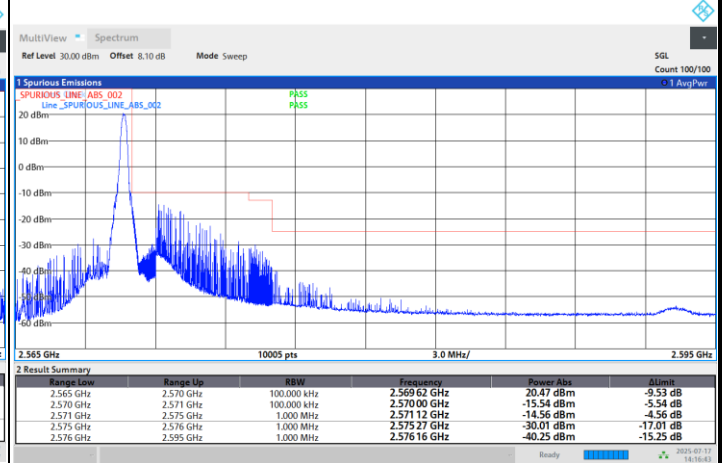
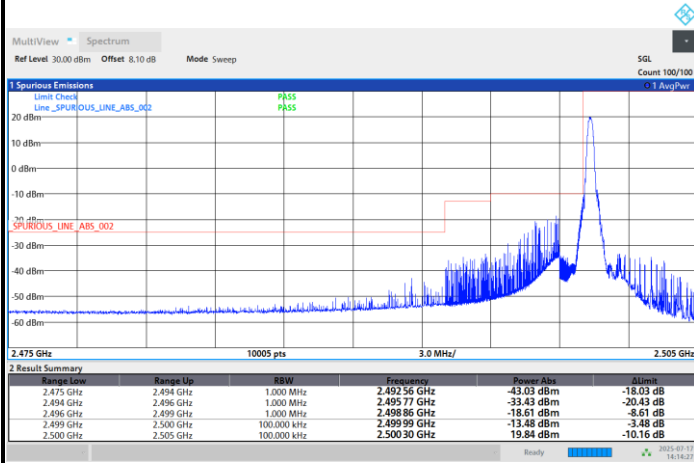


Conducted Band Edge

FR1 n7 / 5MHz / DFT-S OFDM / PI/2 BPSK

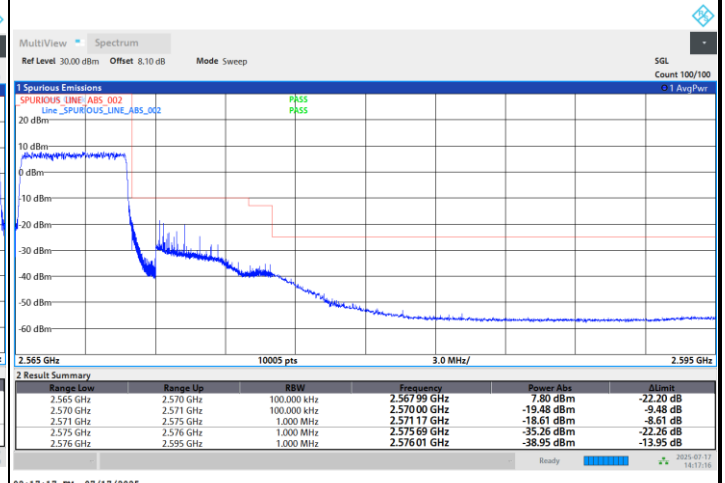
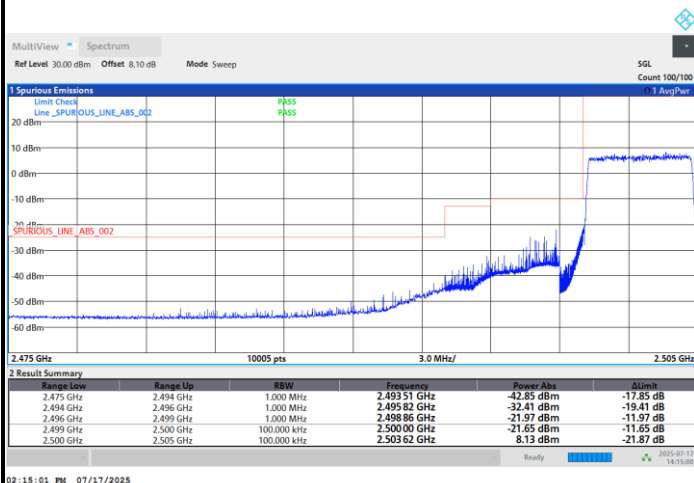
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

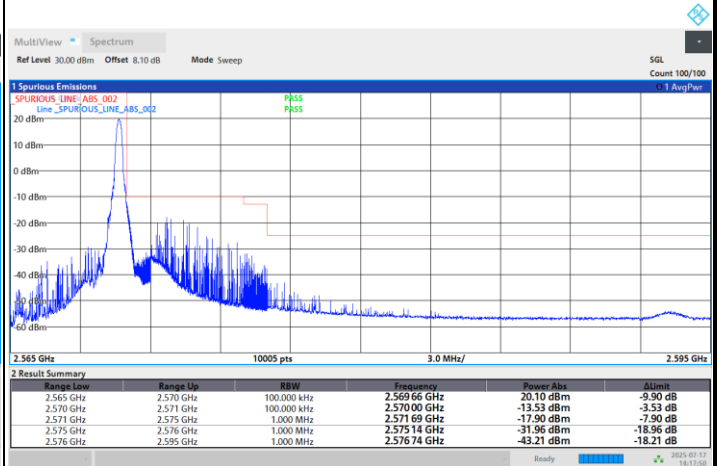
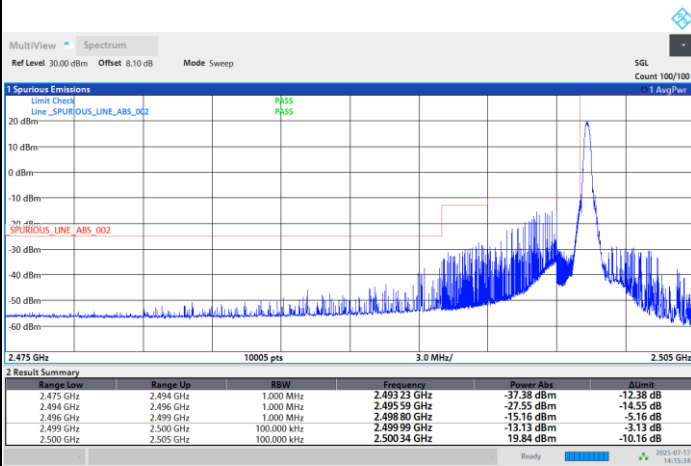




FR1 n7 / 5MHz / DFT-S OFDM / QPSK

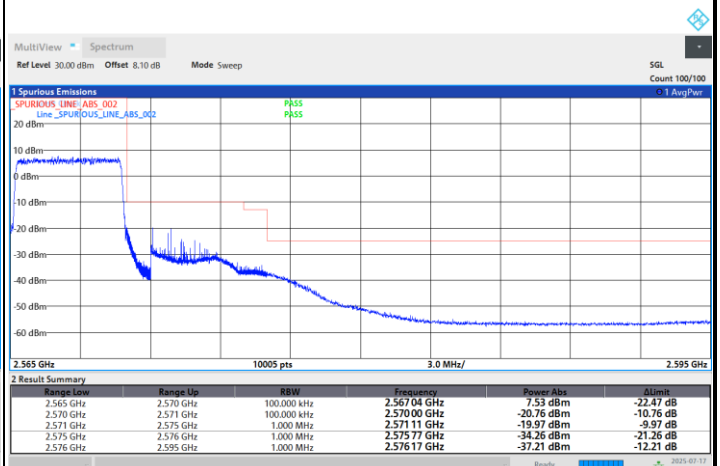
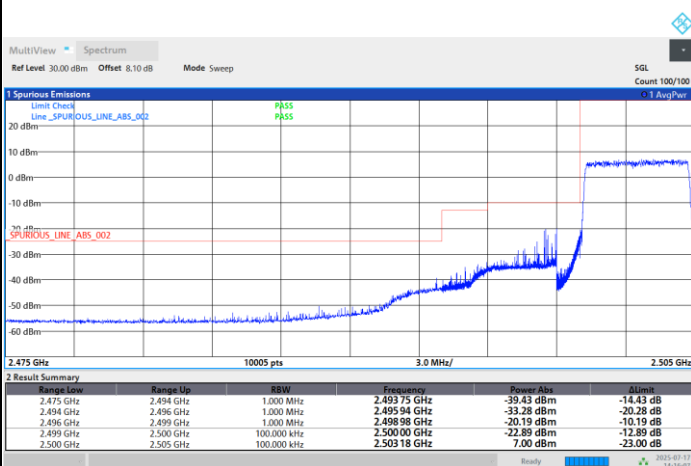
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

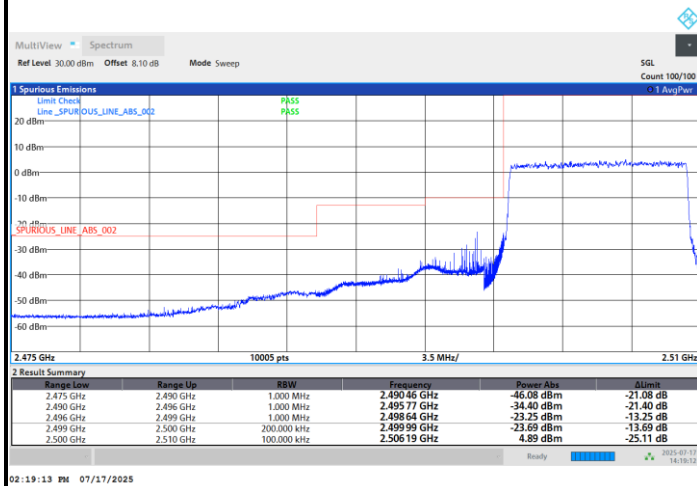
Highest Band Edge / Full RB



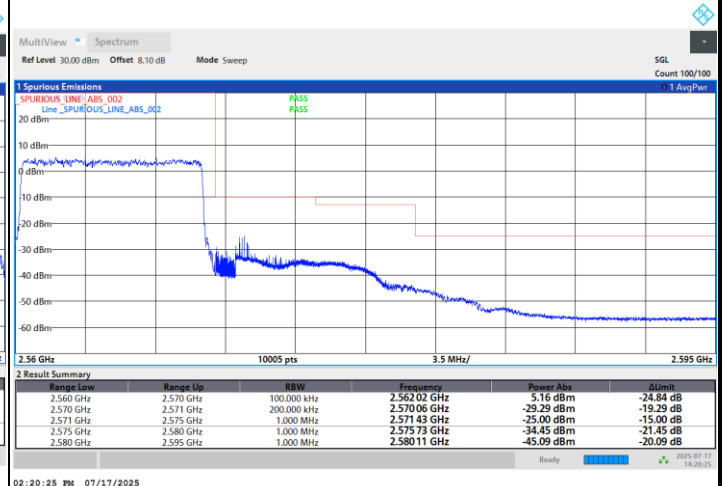


FR1 n7 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

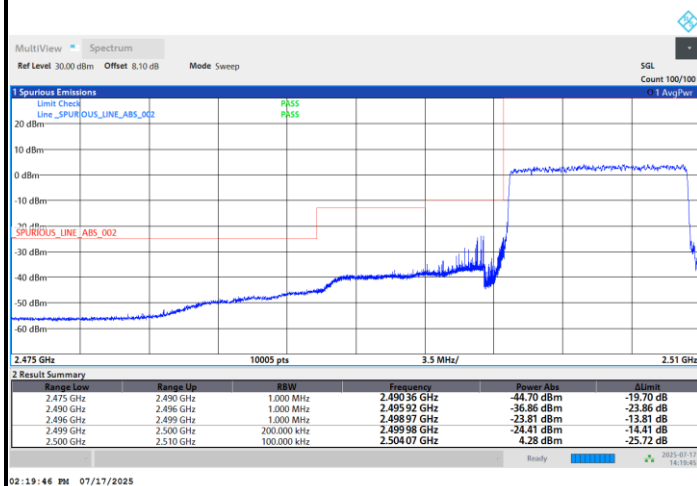


Highest Band Edge / Full RB

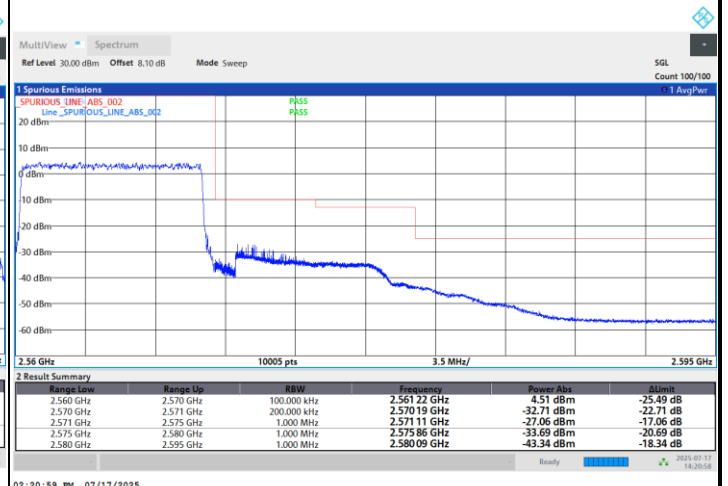


FR1 n7 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / Full RB



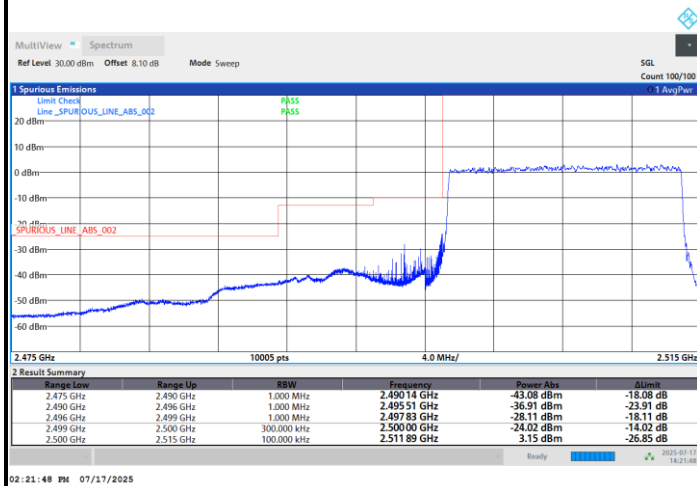
Highest Band Edge / Full RB



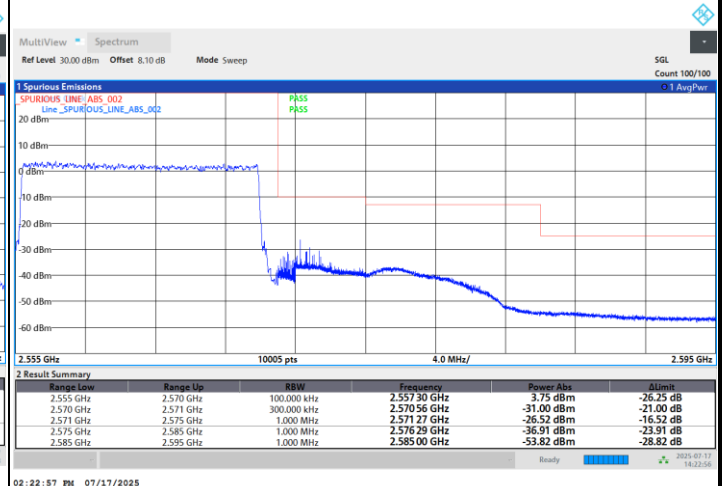


FR1 n7 / 15MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

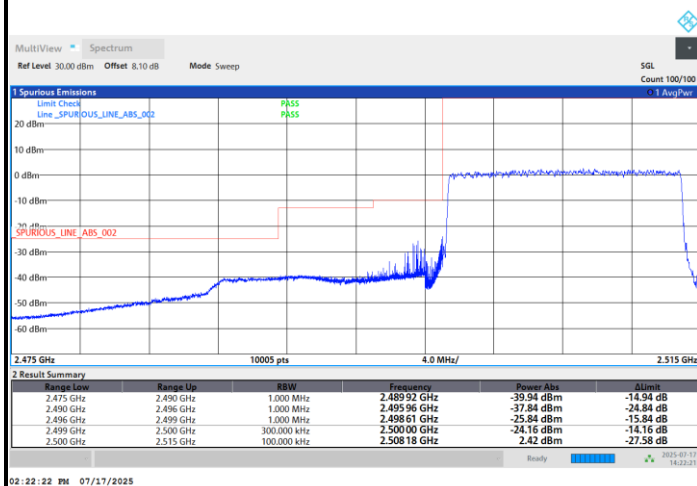


Highest Band Edge / Full RB

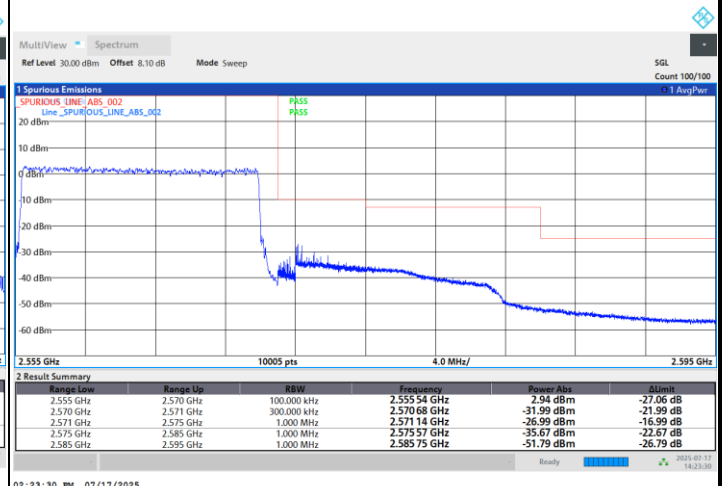


FR1 n7 / 15MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / Full RB



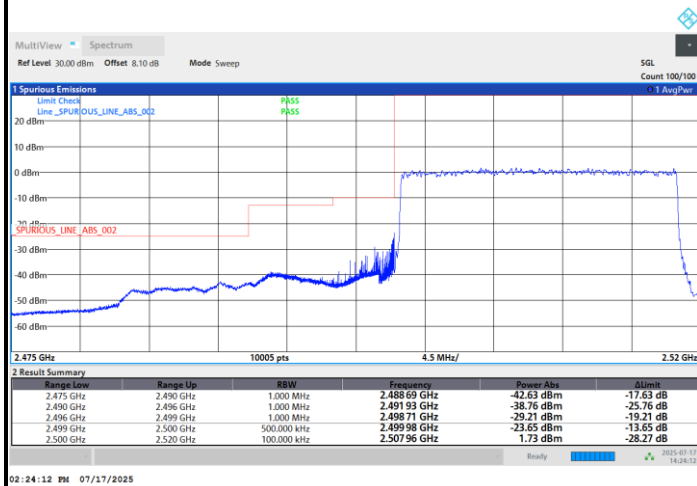
Highest Band Edge / Full RB



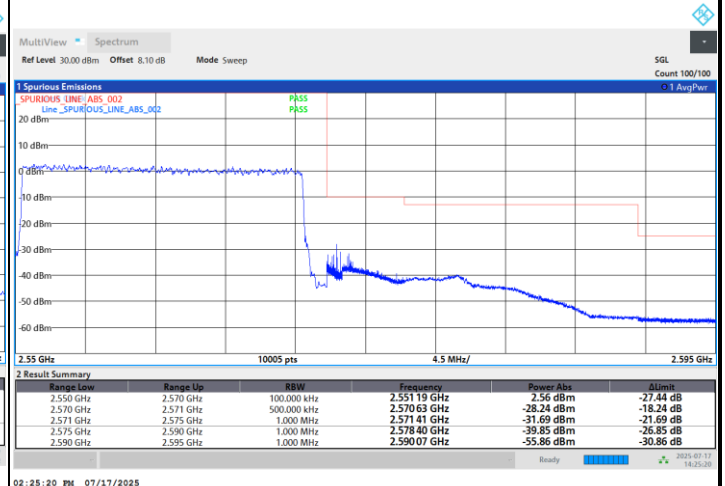


FR1 n7 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / Full RB

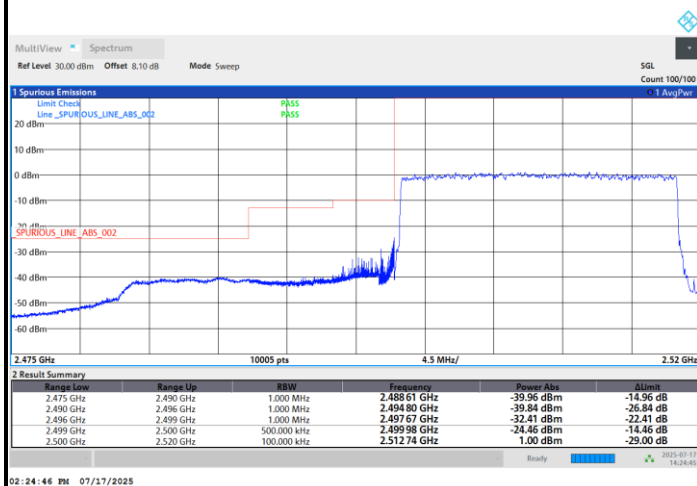


Highest Band Edge / Full RB



FR1 n7 / 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / Full RB



Highest Band Edge / Full RB

