FCC RF Test Report

APPLICANT	:	Xiaomi Communications Co., Ltd.
EQUIPMENT	:	Mobile Phone
BRAND NAME	:	Xiaomi
MODEL NAME	:	2201122G
FCC ID	:	2AFZZ122G
STANDARD	:	47 CFR Part 2, Part 27 Subpart Q
CLASSIFICATION	:	PCS Licensed Transmitter Held to Ear (PCE)
TEST DATE(S)	:	Nov. 29, 2021 ~ Dec. 11, 2021

We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.26-2015 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Jason Jia

Reviewed by: Jason Jia / Supervisor

Alex Wang

Approved by: Alex Wang / Manager

ACCREDITED
Cert #5145.02

Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

TABLE OF CONTENTS

REVISION HISTORY **3**
SUMMARY OF TEST RESULT **4**
1 GENERAL DESCRIPTION **5**
1.1 Applicant 5
1.2 Manufacturer 5
1.3 Product Feature of Equipment Under Test 5
1.4 Product Specification of Equipment Under Test 5
1.5 Modification of EUT 6
1.6 Maximum EIRP Power and Emission Designator 6
1.7 Testing Site 7
1.8 Test Software 7
1.9 Applied Standards 7
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST **8**
2.1 Test Mode 8
2.2 Connection Diagram of Test System 9
2.3 Support Unit used in test configuration and system 9
2.4 Measurement Results Explanation Example 9
2.5 Frequency List of Low/Middle/High Channels 10
3 CONDUCTED TEST ITEMS **11**
3.1 Measuring Instruments 11
3.2 Test Setup 11
3.3 Test Result of Conducted Test 11
3.4 Conducted Output Power Measurement 12
3.5 Peak-to-Average Ratio 13
3.6 EIRP 14
3.7 Occupied Bandwidth 15
3.8 Conducted Band Edge Measurement 16
3.9 Conducted Spurious Emission Measurement 17
3.10 Frequency Stability Measurement 18
4 RADIATED TEST ITEMS **19**
4.1 Measuring Instruments 19
4.2 Test Setup 19
4.3 Test Result of Radiated Test 20
4.4 Radiated Spurious Emission Measurement 21
5 LIST OF MEASURING EQUIPMENT **22**
6 UNCERTAINTY OF EVALUATION **23**
APPENDIX A. TEST RESULTS OF CONDUCTED TEST
APPENDIX B. TEST RESULTS OF RADIATED TEST
APPENDIX C. TEST SETUP PHOTOGRAPHS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG1O1701J	Rev. 01	Initial issue of report	Dec. 20, 2021

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	—	Report Only	-
3.5	§27.50 (k)(4)	Peak-to-Average Ratio	<13dB	PASS	
3.6	§27.50 (k)(3)	EIRP	EIRP < 1W (30dBm)	PASS	-
3.7	§2.1049	Occupied Bandwidth	—	Report Only	-
3.8	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement	-13dBm/MHz	PASS	-
3.9	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission	-13dBm/MHz	PASS	-
3.10	§2.1055 §27.54	Frequency Stability Temperature & Voltage	Within the band	PASS	-
4.4	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission	-13dBm/MHz	PASS	Under limit 35.97 dB at 10356.00 MHz

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Applicant

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.2 Manufacturer

Xiaomi Communications Co., Ltd.
#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	Xiaomi
Model Name	2201122G
FCC ID	2AFZZ122G
IMEI Code	Conducted: 863690050059314/ 863690050059322 Radiation: 863690050059678/863690050059686
HW Version	P2.1
SW Version	MIUI 13
EUT Stage	Identical Prototype

1.4 Product Specification of Equipment Under Test

Product Feature	
Tx/Rx Frequency	5G NR n77: 3450 MHz ~ 3550 MHz 5G NR n78: 3450 MHz ~ 3550 MHz
Bandwidth	10MHz / 15MHz /20MHz / 30MHz / 40MHz / 50MHz / 60MHz / 70MHz / 80MHz / 90MHz / 100MHz
Maximum Output Power to Antenna	**<Ant. 10>** 5G NR n77 : 26.22 dBm 5G NR n78 : 27.25 dBm **<Ant. 10+11>** 5G NR n77 UL_MIMO : 24.33 dBm 5G NR n78 UL_MIMO : 25.48 dBm
Antenna Gain	**<Ant.10> :** 5G NR n77 : -3.0 dBi 5G NR n78 : -3.0 dBi **<Ant.11> :** 5G NR n77 : -4.3 dBi 5G NR n78 : -4.3 dBi **<Ant.12> :** 5G NR n77 : -1.8 dBi

	5G NR n78 : -1.8 dBi **<Ant.13> :** 5G NR n77 : -4.4 dBi 5G NR n78 : -4.4 dBi
Type of Modulation	CP-OFDM: QPSK / 16QAM / 64QAM / 256QAM DFT-s-OFDM: PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM

Remark:

1. The maximum EIRP is calculated from max output power and antenna gain, only the maximum EIRP is shown in the report: Ant. 10 for n77/n78 SISO mode and Ant. 10+11 for n77/n78 MIMO mode.
2. 5G NR n77/n78 support UL MIMO mode, and only supports CP-OFDM modulation in UL MIMO mode.
3. 5G NR n78 supports SA and NSA mode, n77 supports SA mode only. According to the maximum power between SA and NSA mode, NSA covers SA mode and 5G NR n78 covers n77.
4. The EN-DC combinations declared by the manufacturer are as follows: DC_2A_n78A, DC_5A_n78A, DC_7A_n78A, DC_38A_n78A, DC_41A_n78A and DC_66A_n78A.
5. 5G NR n78 supports HPUE for SA mode.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum EIRP Power and Emission Designator

5G NR n78/n77		PI/2 BPSK/QPSK		16QAM/64QAM/256QAM	
BW (MHz)	**Frequency Range (MHz)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**
100	3500.01	0.2661	96M4G7D	0.2084	96M1W7D

5G NR n78/n77 UL MIMO		QPSK		16QAM/64QAM/256QAM	
BW (MHz)	**Frequency Range (MHz)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**	**Maximum EIRP(W)**	**Emission Designator (99%OBW)**
100	3500.01	0.3540	97M3G7D	0.2972	97M3W7D

Note:

1. 5G NR Band n78 overlaps the entire frequency range of Band n77. Therefore, the test results of conducted test items provided in this report covers Band n78 as well as Band n77
2. All modulations have been evaluation, only the worst test results of PSK & QAM are shown in the report

1.7 Testing Site

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	03CH04-KS TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH04-KS	AUDIX	E3	6.2009-8-24a

1.9 Applied Standards

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

- 47 CFR Part 2, Part 27 Subpart Q
- ANSI C63.26-2015
- FCC KDB 971168 Power Meas License Digital Systems D01 v03r01
- FCC KDB 412172 D01 Determining ERP and EIRP v01r01
-

Remark:

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

2 Test Configuration of Equipment Under Test

2.1 Test Mode

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

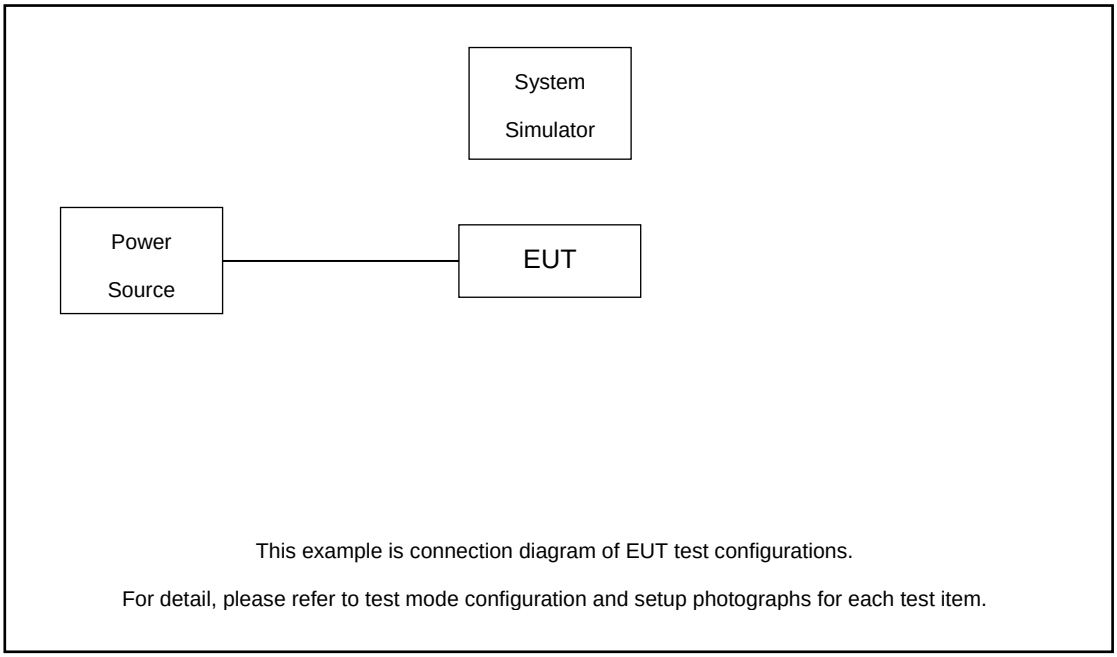
Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Cases	Band	Bandwidth (MHz)	Modulation	RB #	Test Channel
		eg. 5M, 10M, 15M, 20M	eg. QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L/M/H
Max. Output Power	5G n77	10M, 15M, 20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
	5G n78	10M, 15M,20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
Peak-to-Average Ratio	5G n78	100M	PI/2 BPSK, QPSK	1RB, Full RB	L, M, H
E.I.R.P	5G n77	10M, 15M, 20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
	5G n78	10M, 15M, 20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	QPSK, 16QAM, 64QAM, 256QAM	1RB, Partial RB, Full RB	L, M, H
26dB and 99% Bandwidth	5G n78	100M	QPSK, 16QAM, 64QAM, 256QAM	Full RB	M
Conducted Band Edge	5G n78	10M, 15M, 20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	QPSK	1RB, Full RB	L, H
Conducted Spurious Emission	5G n78	10M, 15M, 20M, 30M, 40M, 50M, 60M, 70M, 80M, 90M ,100M	QPSK	1RB	L, M, H
Frequency Stability	5G n78	20M	QPSK	Full RB	M
Radiated Spurious Emission	5G n77	Worst case from maximum power			M
	5G n78	Worst case from maximum power			M

Note:

1. 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.
2. Based on engineering evaluation, only the worst modulations test results are shown in the report.

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Power Supply	GWINSTEK	PSS-2002	N/A	N/A	Unshielded, 1.8 m
2.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m
3.	NR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
4.	Earphone	MI	EM023	N/A	Unshielded,1.2m	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 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.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 6.5 dB.

Example : *Offset(dB) = RF cable loss(dB).*

=6.5 (dB)

2.5 Frequency List of Low/Middle/High Channels

5G n77/n78 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
100	Channel	-	633334	-
	Frequency	-	3500.01	-
90	Channel	633000	633334	633666
	Frequency	3495	3500.01	3504.99
80	Channel	632668	633334	634000
	Frequency	3490.02	3500.01	3510
70	Channel	632334	633334	634332
	Frequency	3485.01	3500.01	3514.98
60	Channel	632000	633334	634666
	Frequency	3480	3500.01	3519.99
50	Channel	631668	633334	635000
	Frequency	3475.02	3500.01	3525
40	Channel	631334	633334	635332
	Frequency	3470.01	3500.01	3529.98
30	Channel	631000	633334	635666
	Frequency	3465	3500.01	3534.99
20	Channel	630668	633334	636000
	Frequency	3460.02	3500.01	3540
15	Channel	630500	633334	636168
	Frequency	3457.5	3500.01	3542.52
10	Channel	630334	633334	636334
	Frequency	3455.01	3500.01	3545.01

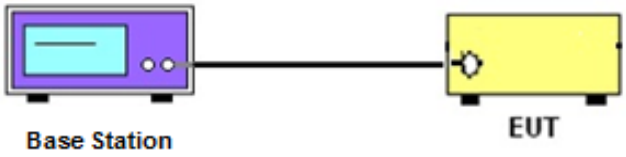
3 Conducted Test Items

3.1 Measuring Instruments

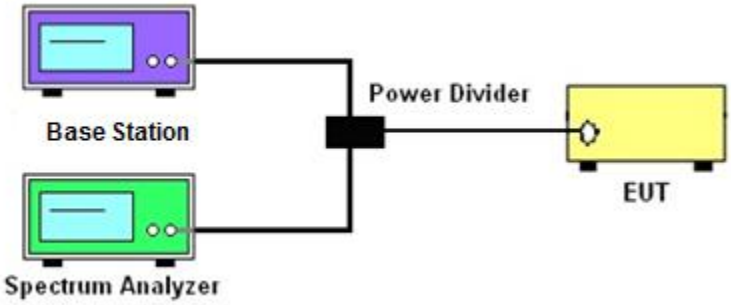
See list of measuring instruments of this test report.

3.2 Test Setup

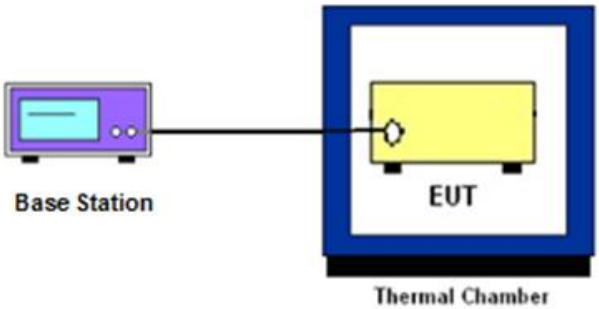
3.2.1 Conducted Output Power



3.2.2 Peak-to-Average Ratio, Occupied / 26dB Bandwidth, Band-Edge and Conducted Spurious Emission



3.2.3 Frequency Stability



3.3 Test Result of Conducted Test

Please refer to Appendix A.

3.4 Conducted Output Power Measurement

3.4.1 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.

3.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2
2. The transmitter output port was connected to the system simulator.
3. Set EUT at maximum power through the system simulator.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure and record the power level from the system simulator.

3.5 Peak-to-Average Ratio

3.5.1 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.

3.5.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.2.6 (PAPR).
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set EUT in maximum power output.
4. Set the RBW = 1MHz, VBW = 3MHz, Detector = Peak, Trace mode = max hold, Set span ≥ 2 × OBW in spectrum analyzer.
5. Set the RBW = 1MHz, VBW = 3MHz, Detector = power averaging, Trace mode = max hold, Set span ≥ 2 × OBW in spectrum analyzer.
6. Add [10 log (1/duty cycle)] to the measured maximum power level to compute the average power during continuous transmission.
7. PAPR (dB) = P_{Pk} (dBm) − P_{Avg} (dBm)

   where

   PAPR peak-to-average power ratio, in dB

   P_{Pk} measured peak power level, in dBm

   P_{Avg} measured average power level, in dBm
8. Record the deviation as Peak to Average Ratio.

3.6 EIRP

3.6.1 Description of EIRP Limit

§ 27.50 (k)(3)

Mobile devices are limited to 1Watt (30 dBm) EIRP. Mobile devices operating in these bands must employ a means for limiting power to the minimum necessary for successful communications

3.6.2 Test Procedures

1. According to KDB 412172 D01 Power Approach,
2. 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

3.7 Occupied Bandwidth

3.7.1 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.

3.7.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.4
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. 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.
4. 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.
5. Set the detection mode to peak, and the trace mode to max hold.
6. 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)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. 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.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

3.8 Conducted Band Edge Measurement

3.8.1 Description of Conducted Band Edge Measurement

§ 27.53 (n)(2)

For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz.

Compliance with this paragraph is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz 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, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.

3.8.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW ≥ 1% EBW but limited to a maximum of 200 kHz in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz and 5 MHz removed from the band edge, set RBW ≥ 500KHz.
6. Beyond the 5 MHz removed from the band edge, set RBW = 1MHz.
7. Set spectrum analyzer with RMS detector.
8. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
9. Checked that all the results comply with the emission limit line.

3.9 Conducted Spurious Emission Measurement

3.9.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges shall not exceed −13 dBm/MHz.

It is measured by means of a calibrated spectrum analyzer and scanned from 9 kHz up to a frequency including its 10th harmonic.

3.9.2 Test Procedures

1. The testing follows ANSI C63.26 section 5.7
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. 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.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. Checked that all the results comply with the emission limit line.

3.10 Frequency Stability Measurement

3.10.1 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.

3.10.2 Test Procedures for Temperature Variation

1. The testing follows ANSI C63.26 section 5.6.4
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. 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.
4. 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.

3.10.3 Test Procedures for Voltage Variation

1. The testing follows ANSI C63.26 section 5.6.5.
2. The EUT was placed in a temperature chamber at 20±5°C and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value for other than hand carried battery equipment.
4. For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
5. The variation in frequency was measured for the worst case.

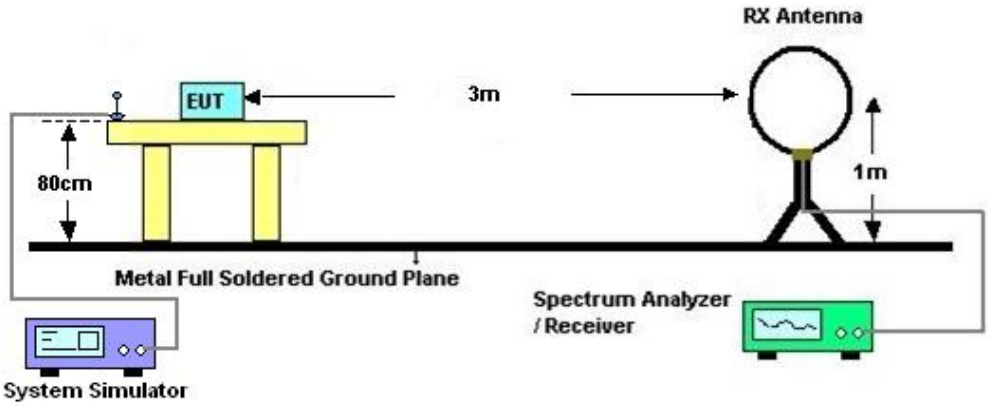
4 Radiated Test Items

4.1 Measuring Instruments

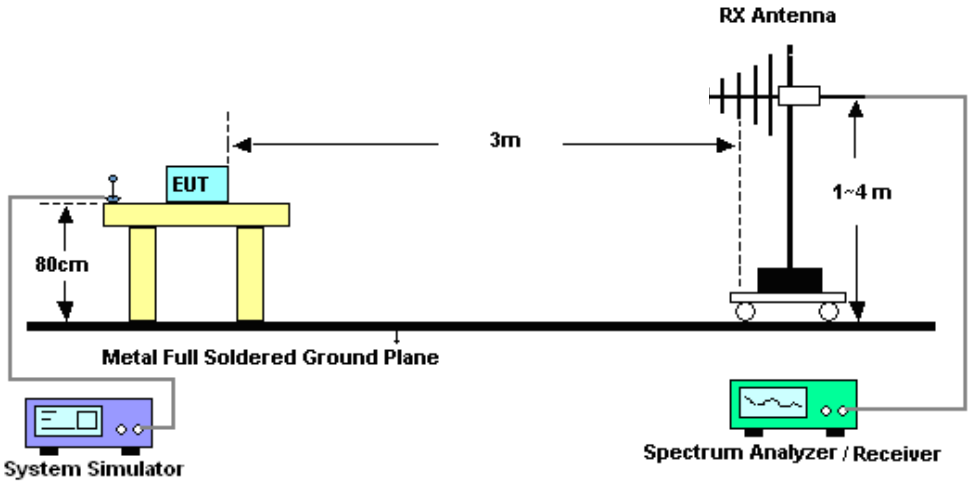
See list of measuring instruments of this test report.

4.2 Test Setup

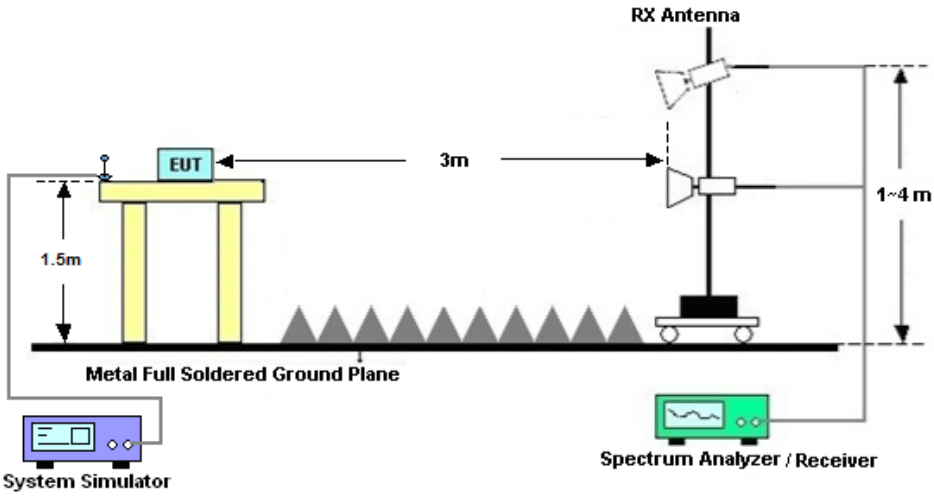
4.2.1 For radiated test below 30MHz



4.2.2 For radiated test from 30MHz to 1GHz



4.2.3 For radiated test above 1GHz



4.3 Test Result of Radiated Test

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

Please refer to Appendix B.

4.4 Radiated Spurious Emission Measurement

4.4.1 Description of Radiated Spurious Emission

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 shall not exceed −13 dBm/MHz.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

1. The testing follows ANSI C63.26 Section 5.5
2. The EUT was placed on a turntable with 0.8 meter height for frequency below 1GHz and 1.5 meter height for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
6. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
7. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
8. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
9. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
   EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
   ERP (dBm) = EIRP - 2.15
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 14, 2021	Nov. 29, 2021~ Dec. 03, 2021	Oct. 13, 2022	Conducted (TH01-KS)
Power divider	STI	STI08-0055	-	0.5~40GHz	Aug. 26, 2021	Nov. 29, 2021~ Dec. 03, 2021	Aug. 25, 2022	Conducted (TH01-KS)
Temperature & humidity chamber	Hongzhan	LP-150U	H2014011440	-40~+150°C 20%~95%RH	Jul. 12, 2021	Nov. 29, 2021~ Dec. 03, 2021	Jul. 11, 2022	Conducted (TH01-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz-44G,MAX 30dB	Apr. 13, 2021	Dec. 11, 2021	Apr. 12, 2022	Radiation (03CH04-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 30, 2021	Dec. 11, 2021	Oct. 29, 2022	Radiation (03CH04-KS)
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	May 30, 2021	Dec. 11, 2021	May 29, 2022	Radiation (03CH04-KS)
Horn Antenna	Schwarzbeck	BBHA9120D	1356	1GHz~18GHz	Apr. 18, 2021	Dec. 11, 2021	Apr. 17, 2022	Radiation (03CH04-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 06, 2021	Dec. 11, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	SONOMA	310N	187289	9KHz-1GHz	Jan. 06, 2021	Dec. 11, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	MITEQ	EM18G40G GA	060728	18~40GHz	Jan. 07, 2021	Dec. 11, 2021	Jan. 06, 2022	Radiation (03CH04-KS)
high gain Amplifier	MITEQ	AMF-7D-00 101800-30-1 0P	2025788	1Ghz-18Ghz	Jan. 06, 2021	Dec. 11, 2021	Jan. 05, 2022	Radiation (03CH04-KS)
Amplifier	Keysight	83017A	MY57280106	500MHz~26.5GHz	Oct. 13, 2021	Dec. 11, 2021	Oct. 12, 2022	Radiation (03CH04-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Dec. 11, 2021	NCR	Radiation (03CH04-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Dec. 11, 2021	NCR	Radiation (03CH04-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Dec. 11, 2021	NCR	Radiation (03CH04-KS)

NCR: No Calibration Required

6 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.26-2015. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.3dB**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.8dB**

---------- THE END ----------

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power) and EIRP

n77(Ant10):

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Gain	EIRP	EIRP	EIRP
Channel				633334	633334	633334		L	M	H
Frequency (MHz)				3500.01	3500.01	3500.01				
100	PI/2 BPSK	1	1		26.22		-3.0		0.2099	
100	PI/2 BPSK	1	137		25.61		-3.0		0.1824	
100	PI/2 BPSK	1	271		25.16		-3.0		0.1644	
100	PI/2 BPSK	135	0		25.11		-3.0		0.1626	
100	PI/2 BPSK	135	67		25.69		-3.0		0.1858	
100	PI/2 BPSK	135	138		24.90		-3.0		0.1549	
100	PI/2 BPSK	270	0		25.03		-3.0		0.1596	
100	QPSK	1	1		25.67		-3.0		0.1849	
100	QPSK	1	137		25.63		-3.0		0.1832	
100	QPSK	1	271		25.16		-3.0		0.1644	
100	QPSK	135	0		24.60		-3.0		0.1445	
100	QPSK	135	67		25.64		-3.0		0.1837	
100	QPSK	135	138		24.43		-3.0		0.1390	
100	QPSK	270	0		24.56		-3.0		0.1432	
100	16QAM	1	1		24.78		-3.0		0.1507	
100	64QAM	1	1		22.57		-3.0		0.0906	
100	256QAM	1	1		20.90		-3.0		0.0617	
Channel				633000	633334	633668	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3495	3500.01	3505.02				
90	PI/2 BPSK	1	1	25.62	25.68	25.71	-3.0	0.1828	0.1854	0.1866
Channel				632668	633334	634000	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3490.02	3500.01	3510				
80	PI/2 BPSK	1	1	25.75	25.66	25.49	-3.0	0.1884	0.1845	0.1774
Channel				632334	633334	634334	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3485.01	3500.01	3515.01				
70	PI/2 BPSK	1	1	25.68	25.72	25.83	-3.0	0.1854	0.1871	0.1919
Channel				632000	633334	634668	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3480	3500.01	3520.02				
60	PI/2 BPSK	1	1	25.79	25.83	25.91	-3.0	0.1901	0.1919	0.1954

Channel				631668	633334	635000	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3475.02	3500.01	3525				
50	PI/2 BPSK	1	1	25.78	25.81	25.69	-3.0	0.1897	0.1910	0.1858
Channel				631334	633334	635334	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3470.01	3500.01	3530.01				
40	PI/2 BPSK	1	1	25.83	26.11	25.94	-3.0	0.1919	0.2046	0.1968
Channel				631000	633334	635668	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3465	3500.01	3535.02				
30	PI/2 BPSK	1	1	26.13	26.02	25.98	-3.0	0.2056	0.2004	0.1986
Channel				630668	633334	636000	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3460.02	3500.01	3540				
20	PI/2 BPSK	1	1	25.82	25.95	26.01	-3.0	0.1914	0.1972	0.2000
Channel				630500	633334	636168	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3457.5	3500.01	3542.52				
15	PI/2 BPSK	1	1	25.91	25.86	25.87	-3.0	0.1954	0.1932	0.1936
Channel				630334	633334	636334	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3455.01	3500.01	3545.01				
10	QPSK	1	1	25.95	25.79	25.85	-3.0	0.1972	0.1901	0.1928

n78(Ant10):

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Gain	EIRP	EIRP	EIRP
Channel				633334	633334	633334		L	M	H
Frequency (MHz)				3500.01	3500.01	3500.01				
100	PI/2 BPSK	1	1		27.25		-3.0		0.2661	
100	PI/2 BPSK	1	137		27.20		-3.0		0.2630	
100	PI/2 BPSK	1	271		26.62		-3.0		0.2301	
100	PI/2 BPSK	135	0		26.58		-3.0		0.2280	
100	PI/2 BPSK	135	67		27.11		-3.0		0.2576	
100	PI/2 BPSK	135	138		26.49		-3.0		0.2234	
100	PI/2 BPSK	270	0		26.50		-3.0		0.2239	
100	QPSK	1	1		27.01		-3.0		0.2518	
100	QPSK	1	137		27.08		-3.0		0.2559	
100	QPSK	1	271		26.56		-3.0		0.2270	
100	QPSK	135	0		26.13		-3.0		0.2056	
100	QPSK	135	67		27.12		-3.0		0.2582	
100	QPSK	135	138		25.96		-3.0		0.1977	
100	QPSK	270	0		26.01		-3.0		0.2000	
100	16QAM	1	1		26.19		-3.0		0.2084	
100	64QAM	1	1		24.22		-3.0		0.1324	
100	256QAM	1	1		22.45		-3.0		0.0881	
Channel				633000	633334	633668	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3495	3500.01	3505.02				
90	PI/2 BPSK	1	1	27.16	27.15	27.09	-3.0	0.2606	0.2600	0.2564
Channel				632668	633334	634000	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3490.02	3500.01	3510				
80	PI/2 BPSK	1	1	27.11	27.05	27.18	-3.0	0.2576	0.2541	0.2618
Channel				632334	633334	634334	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3485.01	3500.01	3515.01				
70	QPSK	1	1	27.14	27.22	27.11	-3.0	0.2594	0.2642	0.2576
Channel				632000	633334	634668	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3480	3500.01	3520.02				
60	PI/2 BPSK	1	1	27.16	27.14	27.11	-3.0	0.2606	0.2594	0.2576
Channel				631668	633334	635000	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3475.02	3500.01	3525				
50	PI/2 BPSK	1	1	27.10	27.13	27.15	-3.0	0.2570	0.2588	0.2600
Channel				631334	633334	635334	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3470.01	3500.01	3530.01				
40	PI/2 BPSK	1	1	27.14	27.22	27.15	-3.0	0.2594	0.2642	0.2600

Channel				631000	633334	635668	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3465	3500.01	3535.02				
30	PI/2 BPSK	1	1	27.19	27.23	27.21	-3.0	0.2624	0.2649	0.2636
Channel				630668	633334	636000	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3460.02	3500.01	3540				
20	PI/2 BPSK	1	1	27.15	26.92	27.08	-3.0	0.2600	0.2466	0.2559
Channel				630500	633334	636168	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3457.5	3500.01	3542.52				
15	QPSK	1	1	26.94	26.82	26.94	-3.0	0.2477	0.2410	0.2477
Channel				630334	633334	636334	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3455.01	3500.01	3545.01				
10	QPSK	1	1	27.01	26.88	27.11	-3.0	0.2518	0.2443	0.2576

n77 UL MIMO(Ant10+ Ant11):

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MIMO Gain	EIRP	EIRP	EIRP
Channel				633334	633334	633334		L	M	H
Frequency (MHz)				3500.01	3500.01	3500.01				
100	QPSK	1	1		24.33		0.01		0.2716	
100	QPSK	1	137		23.98		0.01		0.2506	
100	QPSK	1	271		23.88		0.01		0.2449	
100	QPSK	135	0		22.16		0.01		0.1648	
100	QPSK	135	67		23.62		0.01		0.2307	
100	QPSK	135	138		21.94		0.01		0.1567	
100	QPSK	270	0		22.05		0.01		0.1607	
100	16QAM	1	1		23.12		0.01		0.2056	
100	64QAM	1	1		21.50		0.01		0.1416	
100	256QAM	1	1		18.69		0.01		0.0741	
Channel				633000	633334	633668	MIMO Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3495	3500.01	3505.02				
90	PI/2 BPSK	1	1	23.78	23.71	23.86	0.01	0.2393	0.2355	0.2438
Channel				632668	633334	634000	MIMO Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3490.02	3500.01	3510				
80	PI/2 BPSK	1	1	23.82	23.74	23.91	0.01	0.2415	0.2371	0.2466
Channel				632334	633334	634334	MIMO Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3485.01	3500.01	3515.01				
70	PI/2 BPSK	1	1	23.59	23.67	23.85	0.01	0.2291	0.2333	0.2432
Channel				632000	633334	634668	MIMO Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3480	3500.01	3520.02				
60	PI/2 BPSK	1	1	23.79	23.88	23.72	0.01	0.2399	0.2449	0.2360
Channel				631668	633334	635000	MIMO Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3475.02	3500.01	3525				
50	PI/2 BPSK	1	1	24.11	23.96	24.05	0.01	0.2582	0.2495	0.2547
Channel				631334	633334	635334	MIMO Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3470.01	3500.01	3530.01				
40	PI/2 BPSK	1	1	24.18	24.21	24.28	0.01	0.2624	0.2642	0.2685
Channel				631000	633334	635668	MIMO Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3465	3500.01	3535.02				
30	PI/2 BPSK	1	1	24.12	24.15	24.20	0.01	0.2588	0.2606	0.2636
Channel				630668	633334	636000	MIMO Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3460.02	3500.01	3540				
20	PI/2 BPSK	1	1	24.21	24.00	23.89	0.01	0.2642	0.2518	0.2455

Channel				630500	633334	636168	MIMO Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3457.5	3500.01	3542.52				
15	PI/2 BPSK	1	1	24.10	24.23	24.18	0.01	0.2576	0.2655	0.2624
Channel				630334	633334	636334	MIMO Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3455.01	3500.01	3545.01				
10	PI/2 BPSK	1	1	24.02	24.22	23.96	0.01	0.2529	0.2649	0.2495

MIMO Gain = Max. ant.(10, 11) + 10log2

n78 UL MIMO(Ant10+ Ant11):

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	MIMO Gain	EIRP	EIRP	EIRP
Channel				633334	633334	633334		L	M	H
Frequency (MHz)				3500.01	3500.01	3500.01				
100	QPSK	1	1		25.48		0.01		0.3540	
100	QPSK	1	137		25.37		0.01		0.3451	
100	QPSK	1	271		24.78		0.01		0.3013	
100	QPSK	135	0		23.66		0.01		0.2328	
100	QPSK	135	67		25.10		0.01		0.3243	
100	QPSK	135	138		23.45		0.01		0.2218	
100	QPSK	270	0		23.60		0.01		0.2296	
100	16QAM	1	1		24.72		0.01		0.2972	
100	64QAM	1	1		22.95		0.01		0.1977	
100	256QAM	1	1		20.06		0.01		0.1016	
Channel				633000	633334	633668	MIMO Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3495	3500.01	3505.02				
90	QPSK	1	1	25.21	25.05	25.36	0.01	0.3327	0.3206	0.3443
Channel				632668	633334	634000	MIMO Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3490.02	3500.01	3510				
80	QPSK	1	1	25.20	25.27	25.31	0.01	0.3319	0.3373	0.3404
Channel				632334	633334	634334	MIMO Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3485.01	3500.01	3515.01				
70	QPSK	1	1	25.21	25.12	25.00	0.01	0.3327	0.3258	0.3170
Channel				632000	633334	634668	MIMO Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3480	3500.01	3520.02				
60	QPSK	1	1	25.18	25.23	25.30	0.01	0.3304	0.3342	0.3396
Channel				631668	633334	635000	MIMO Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3475.02	3500.01	3525				
50	QPSK	1	1	25.28	25.19	25.22	0.01	0.3381	0.3311	0.3334
Channel				631334	633334	635334	MIMO Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3470.01	3500.01	3530.01				
40	QPSK	1	1	25.33	25.34	25.38	0.01	0.3420	0.3428	0.3459
Channel				631000	633334	635668	MIMO Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3465	3500.01	3535.02				
30	QPSK	1	1	25.41	25.33	25.37	0.01	0.3483	0.3420	0.3451
Channel				630668	633334	636000	MIMO Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3460.02	3500.01	3540				
20	QPSK	1	1	25.38	25.40	25.33	0.01	0.3459	0.3475	0.3420

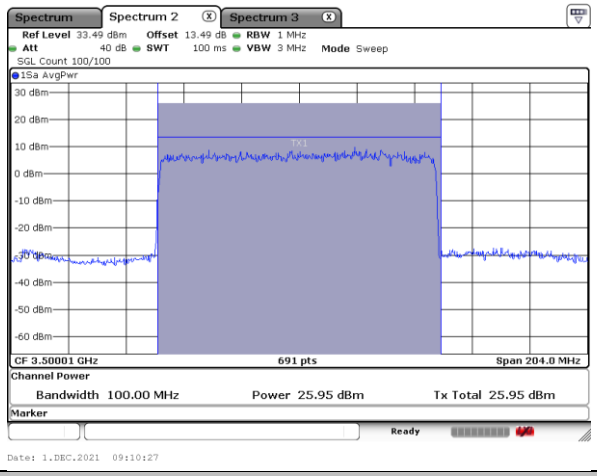
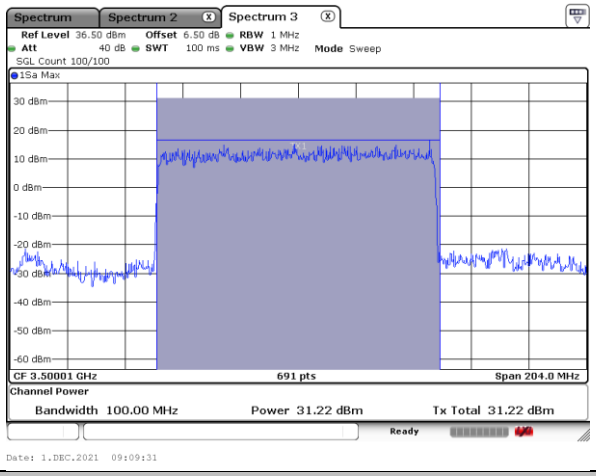
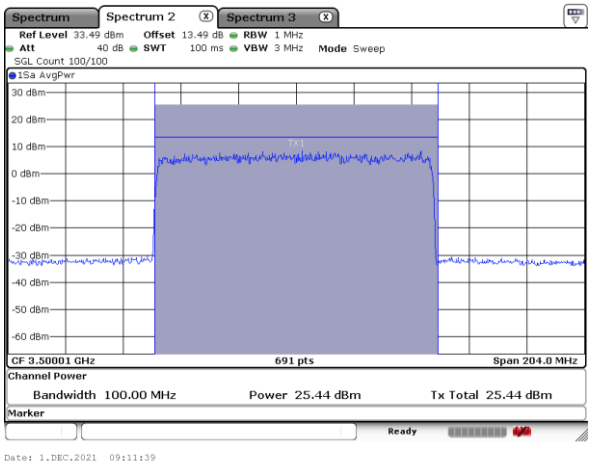
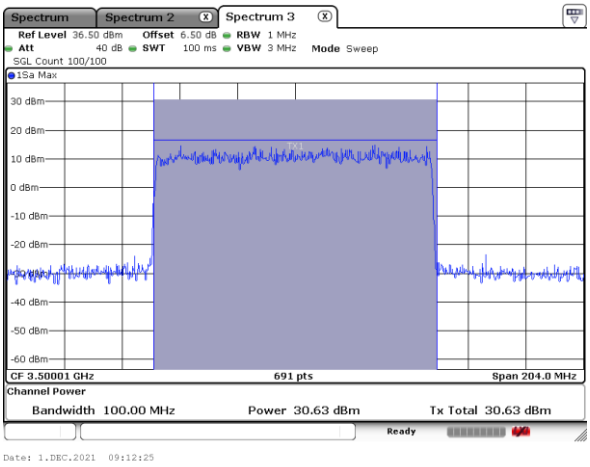
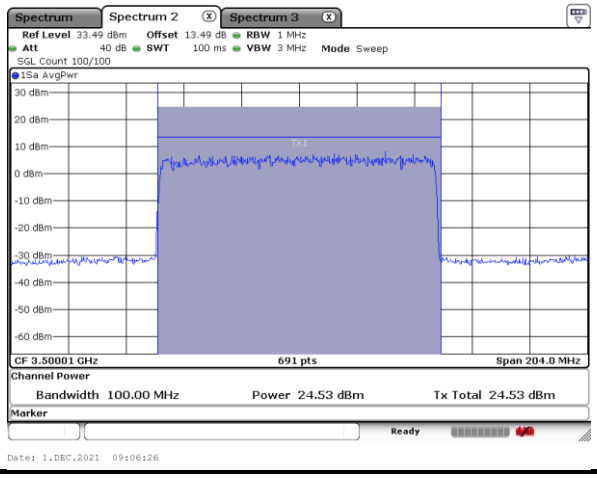
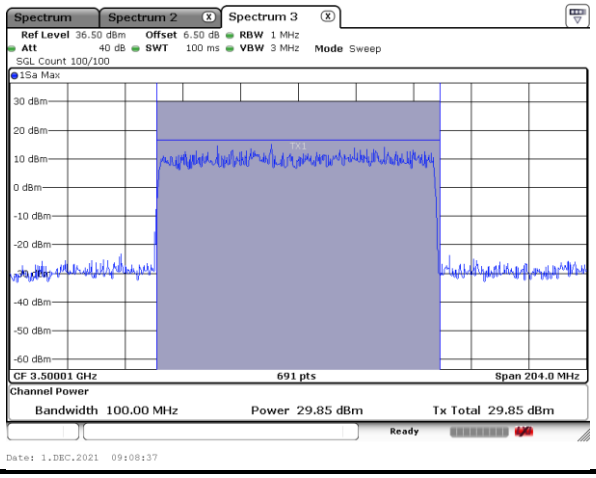
Channel				630500	633334	636168	MIMO Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3457.5	3500.01	3542.52				
15	QPSK	1	1	25.12	25.34	25.36	0.01	0.3258	0.3428	0.3443
Channel				630334	633334	636334	MIMO Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3455.01	3500.01	3545.01				
10	QPSK	1	1	25.41	25.12	25.32	0.01	0.3483	0.3258	0.3412

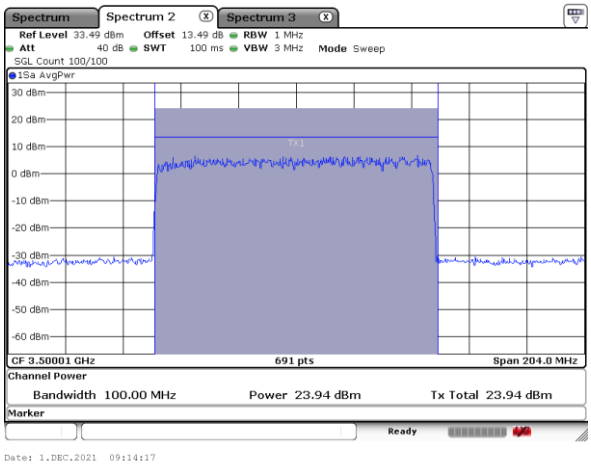
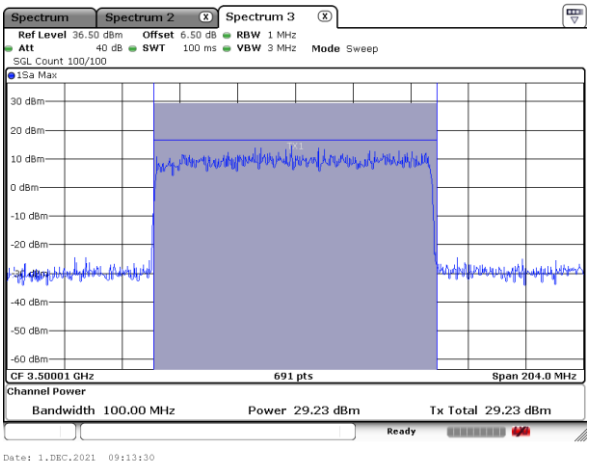
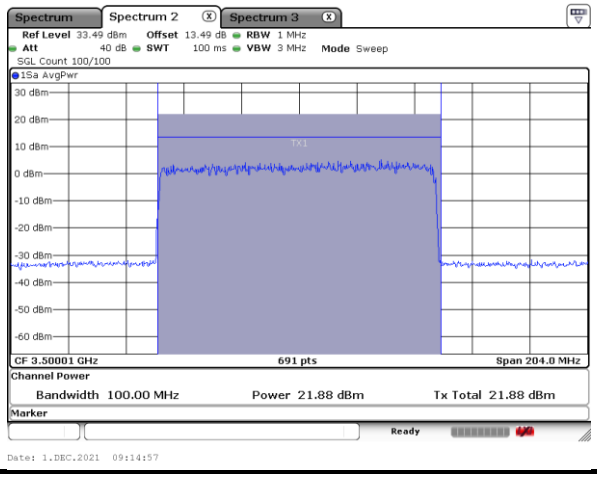
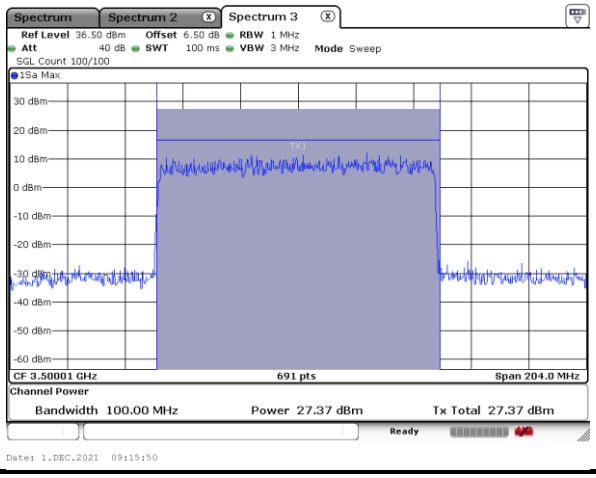
MIMO Gain = Max. ant.(10, 11) + 10log2

FR1 n78

Peak-to-Average Ratio

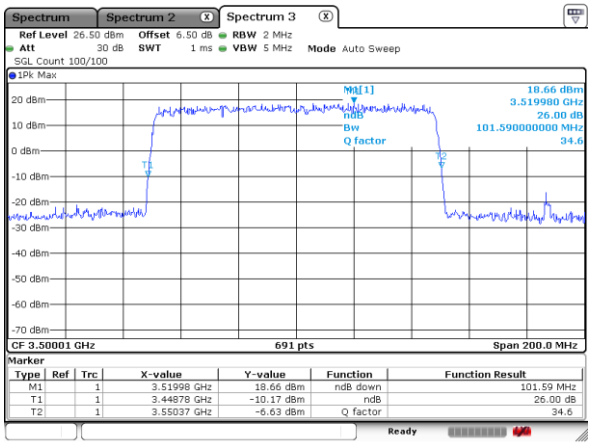
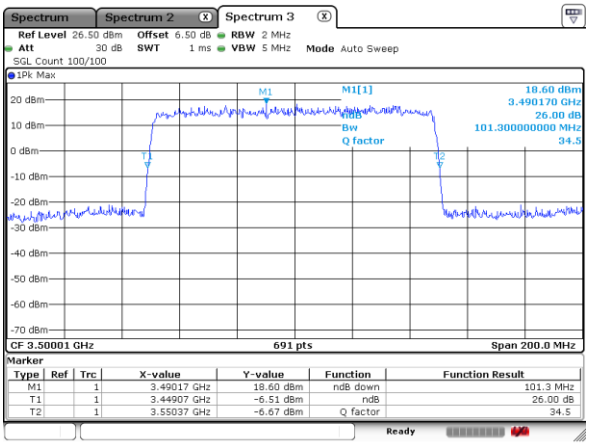
Mode	FR1 n78 / 100MHz / DFT-S OFDM				
Mod.	100M				Limit: 13dB
RB Size	BPSK	QPSK	16QAM	64QAM	Result
Middle CH	5.27	5.19	5.32	5.29	PASS
RB Size	256QAM				
Middle CH	5.49				

BPSK-A	BPSK-P
	
QPSK-A	QPSK-P
	
16QAM-A	16QAM-P
	

64QAM-A	64QAM-P
	
256QAM-A	**256QAM-P**
	

26dB Bandwidth

Mode	FR1 n78 : 26dB BW(MHz) / DFT-S OFDM	
BW	DFT	
Mod.	QPSK	16QAM
Middle CH	101.59	101.3

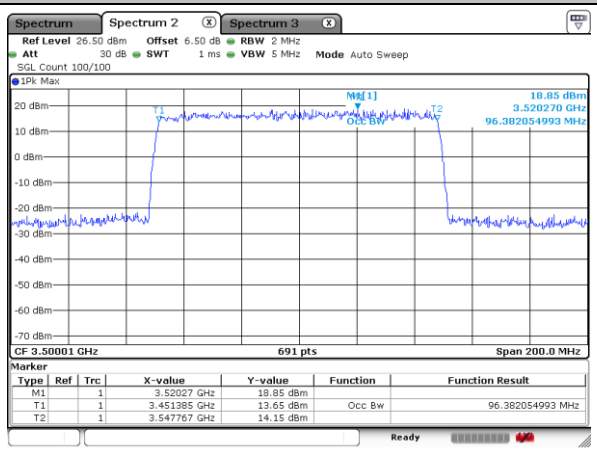
DFT	
QPSK	16QAM
	

Occupied Bandwidth

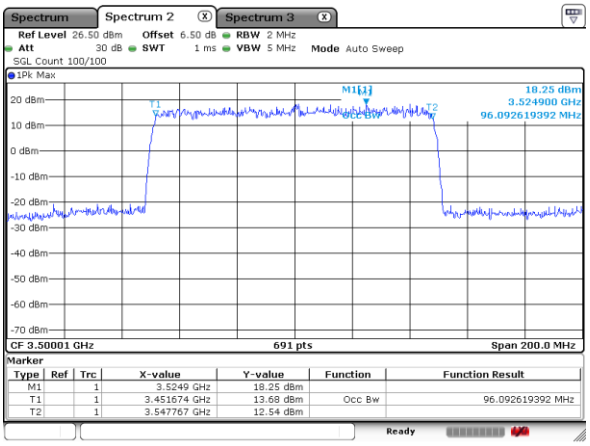
Mode	FR1 n78: OB BW(MHz) / DFT-S OFDM	
BW	DFT	
Mod.	QPSK	16QAM
Middle CH	96.38	96.09

DFT

QPSK



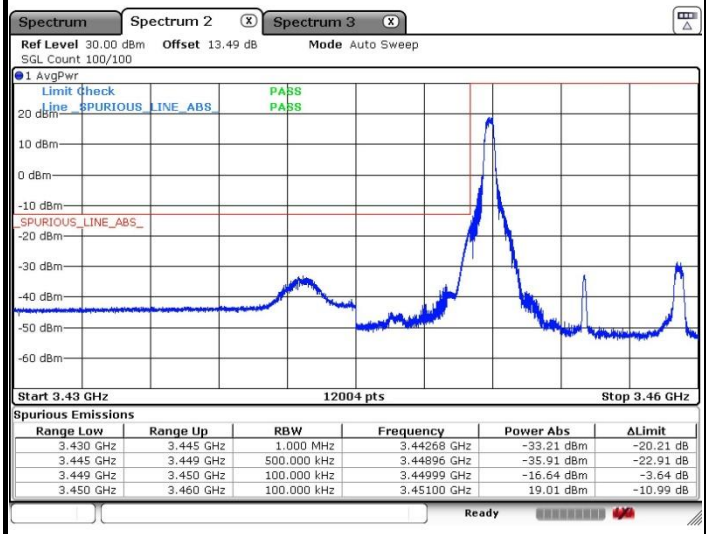
16QAM



Conducted Band Edge

FR1 n78 / 10MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

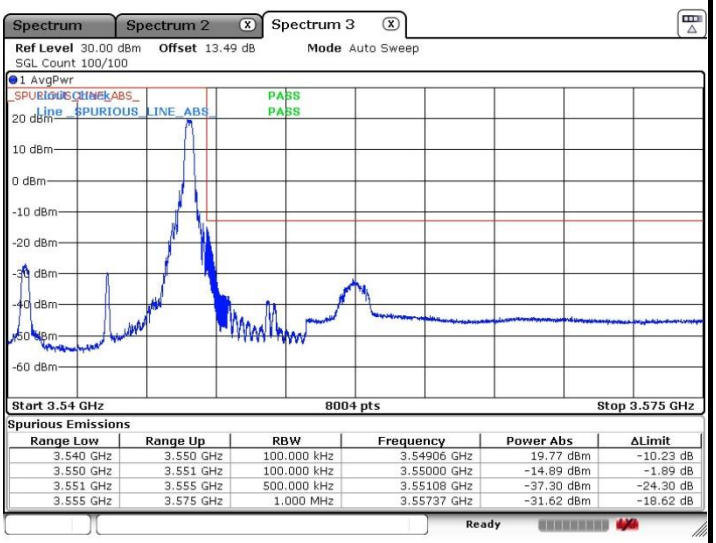


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.44268 GHz	-33.21 dBm	-20.21 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44896 GHz	-35.91 dBm	-22.91 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44999 GHz	-16.64 dBm	-3.64 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45100 GHz	19.01 dBm	-10.99 dB

Date: 3.DEC.2021 01:05:46

Highest Band Edge / 1RBmax

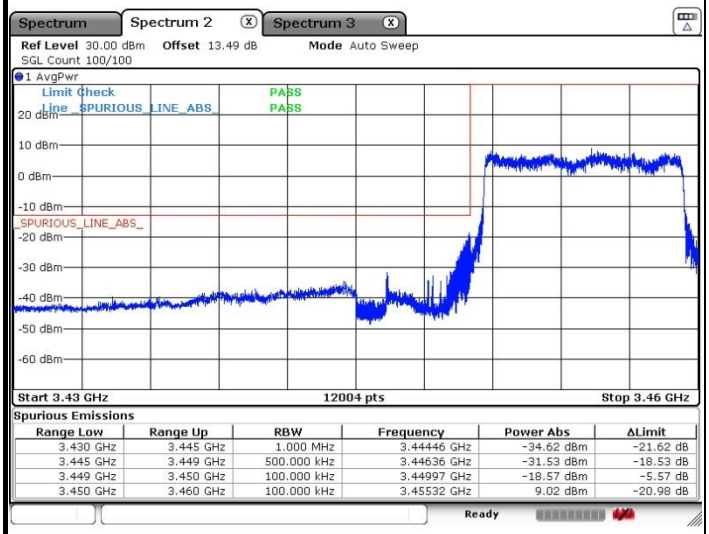


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54906 GHz	19.77 dBm	-10.23 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55000 GHz	-14.89 dBm	-1.89 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55108 GHz	-37.30 dBm	-24.30 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55737 GHz	-31.62 dBm	-18.62 dB

Date: 3.DEC.2021 01:13:33

Lowest Band Edge / Full RB

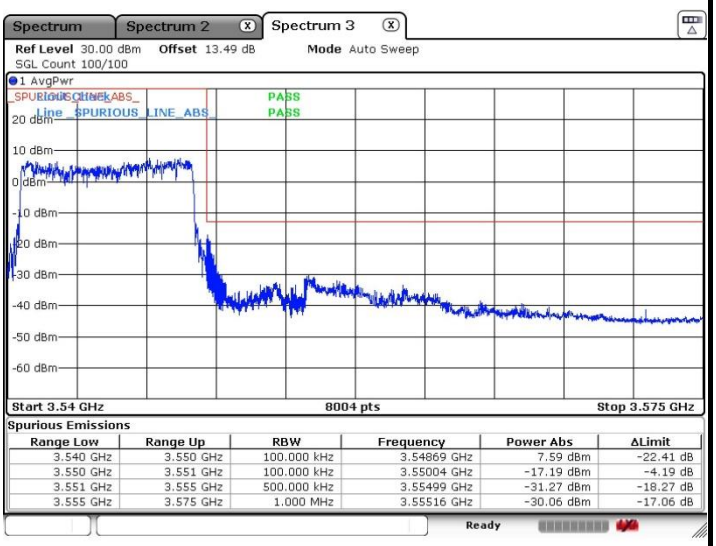


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.44446 GHz	-34.62 dBm	-21.62 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44636 GHz	-31.53 dBm	-18.53 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44997 GHz	-18.57 dBm	-5.57 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45532 GHz	9.02 dBm	-20.98 dB

Date: 3.DEC.2021 00:54:32

Highest Band Edge / Full RB



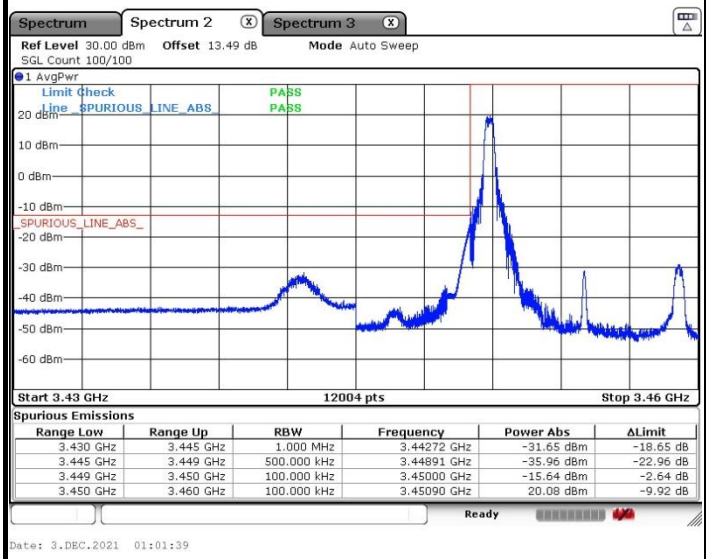
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54869 GHz	7.59 dBm	-22.41 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55004 GHz	-17.19 dBm	-4.19 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55499 GHz	-31.27 dBm	-18.27 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55516 GHz	-30.06 dBm	-17.06 dB

Date: 3.DEC.2021 01:07:20

FR1 n78 / 10MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

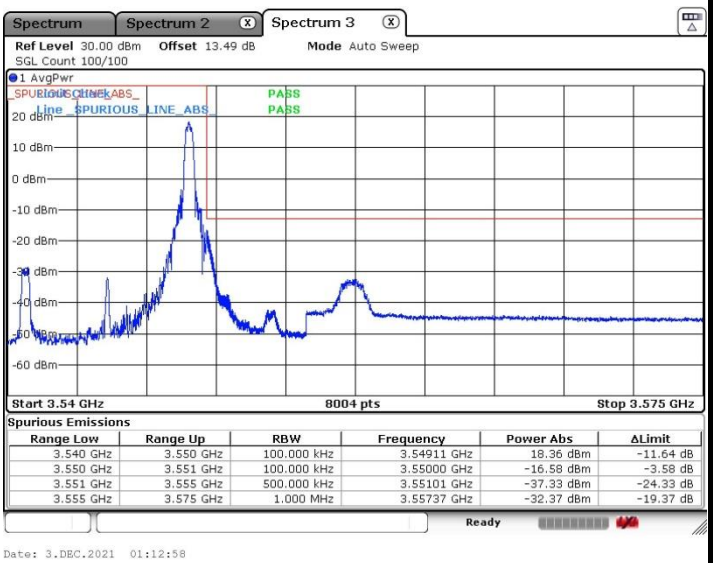


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.44272 GHz	-31.65 dBm	-18.65 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44891 GHz	-35.96 dBm	-22.96 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.45000 GHz	-15.64 dBm	-2.64 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45090 GHz	20.08 dBm	-9.92 dB

Date: 3.DEC.2021 01:01:39

Highest Band Edge / 1RBmax

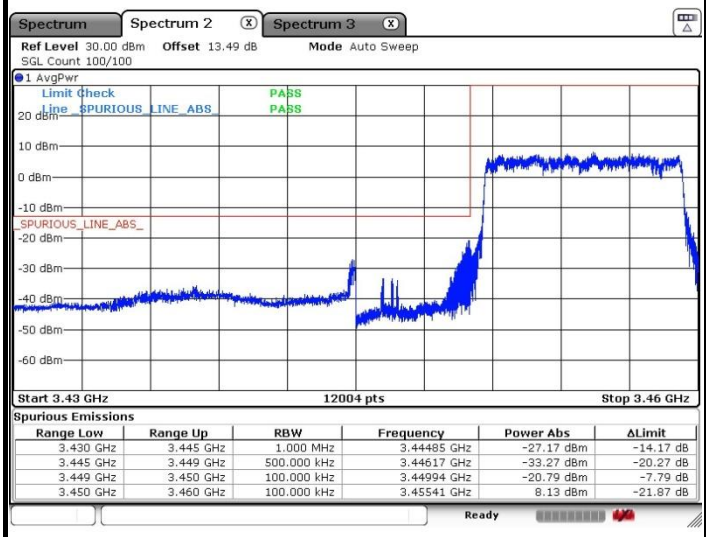


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54911 GHz	18.36 dBm	-11.64 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55000 GHz	-16.58 dBm	-3.58 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55101 GHz	-37.33 dBm	-24.33 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55737 GHz	-32.37 dBm	-19.37 dB

Date: 3.DEC.2021 01:12:58

Lowest Band Edge / Full RB

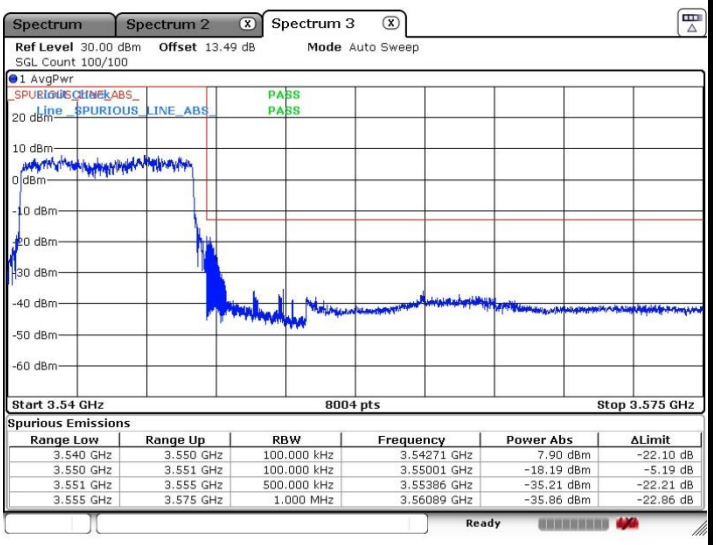


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.44485 GHz	-27.17 dBm	-14.17 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44617 GHz	-33.27 dBm	-20.27 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44994 GHz	-20.79 dBm	-7.79 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45541 GHz	8.13 dBm	-21.87 dB

Date: 3.DEC.2021 00:54:08

Highest Band Edge / Full RB



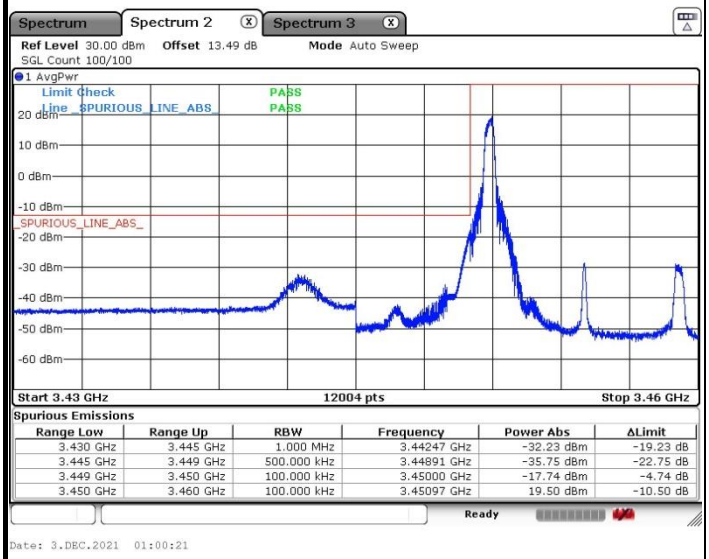
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54271 GHz	7.90 dBm	-22.10 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55001 GHz	-18.19 dBm	-5.19 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55386 GHz	-35.21 dBm	-22.21 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.56089 GHz	-35.86 dBm	-22.86 dB

Date: 3.DEC.2021 01:07:58

FR1 n78 / 10MHz / DFT-S OFDM / 16Q

Lowest Band Edge / 1RB0

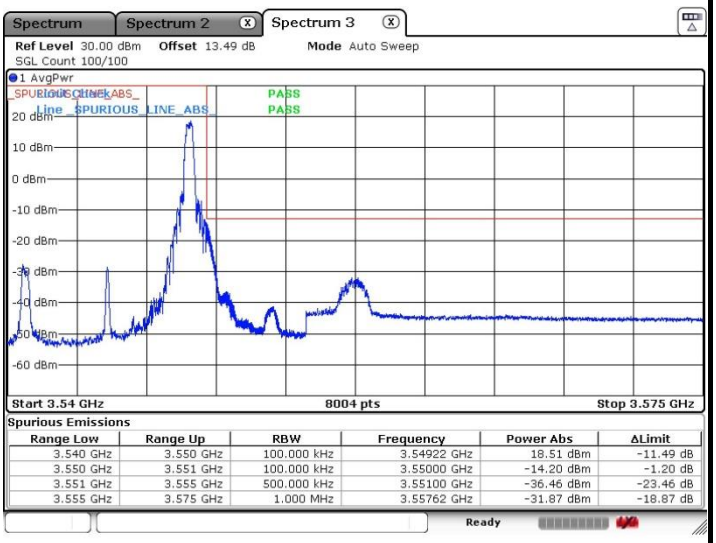


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.44247 GHz	-32.23 dBm	-19.23 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44891 GHz	-35.75 dBm	-22.75 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.45000 GHz	-17.74 dBm	-4.74 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45097 GHz	19.50 dBm	-10.50 dB

Date: 3.DEC.2021 01:00:21

Highest Band Edge / 1RBmax

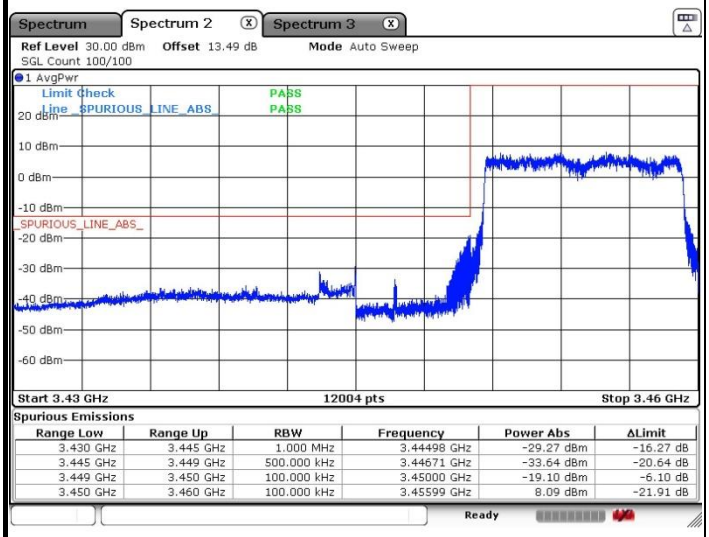


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54922 GHz	18.51 dBm	-11.49 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55000 GHz	-14.20 dBm	-1.20 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55100 GHz	-36.46 dBm	-23.46 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55762 GHz	-31.87 dBm	-18.87 dB

Date: 3.DEC.2021 01:12:22

Lowest Band Edge / Full RB

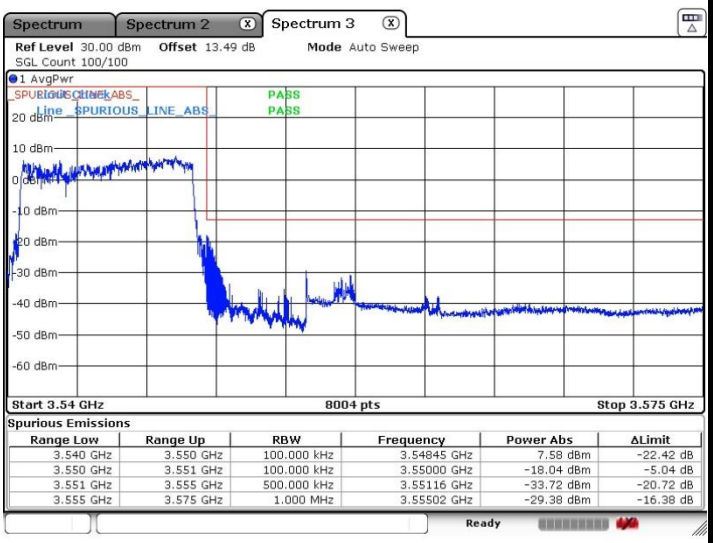


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.44498 GHz	-29.27 dBm	-16.27 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44671 GHz	-33.64 dBm	-20.64 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.45000 GHz	-19.10 dBm	-6.10 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45599 GHz	8.09 dBm	-21.91 dB

Date: 3.DEC.2021 00:55:07

Highest Band Edge / Full RB



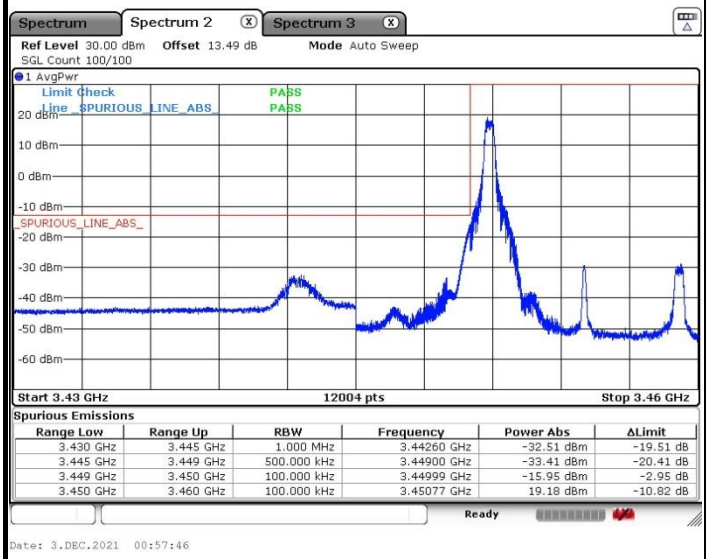
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54845 GHz	7.58 dBm	-22.42 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55000 GHz	-18.04 dBm	-5.04 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55116 GHz	-33.72 dBm	-20.72 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55502 GHz	-29.38 dBm	-16.38 dB

Date: 3.DEC.2021 01:08:21

FR1 n78 / 10MHz / DFT-S OFDM / 64Q

Lowest Band Edge / 1RB0

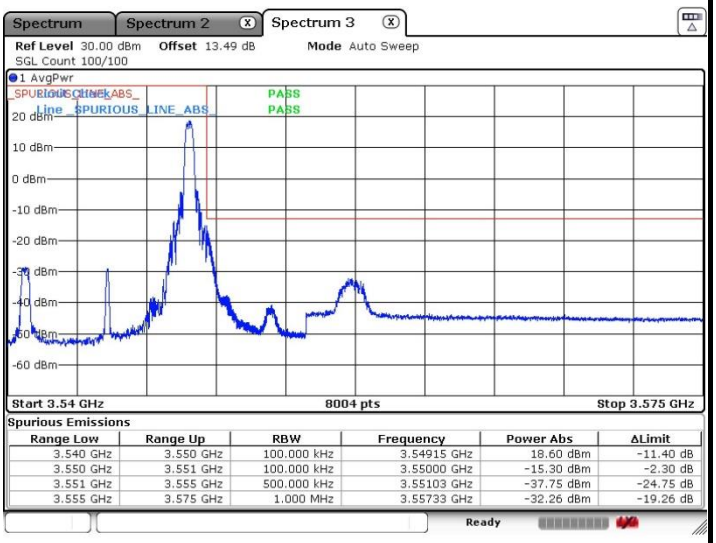


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.44260 GHz	-32.51 dBm	-19.51 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44900 GHz	-33.41 dBm	-20.41 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44999 GHz	-15.95 dBm	-2.95 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45077 GHz	19.18 dBm	-10.82 dB

Date: 3.DEC.2021 00:57:46

Highest Band Edge / 1RB24

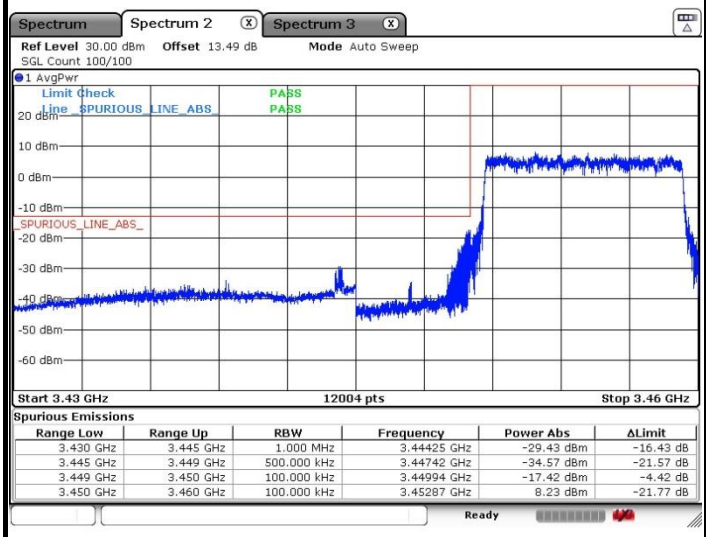


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54915 GHz	18.60 dBm	-11.40 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55000 GHz	-15.30 dBm	-2.30 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55103 GHz	-37.75 dBm	-24.75 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55733 GHz	-32.26 dBm	-19.26 dB

Date: 3.DEC.2021 01:10:47

Lowest Band Edge / Full RB

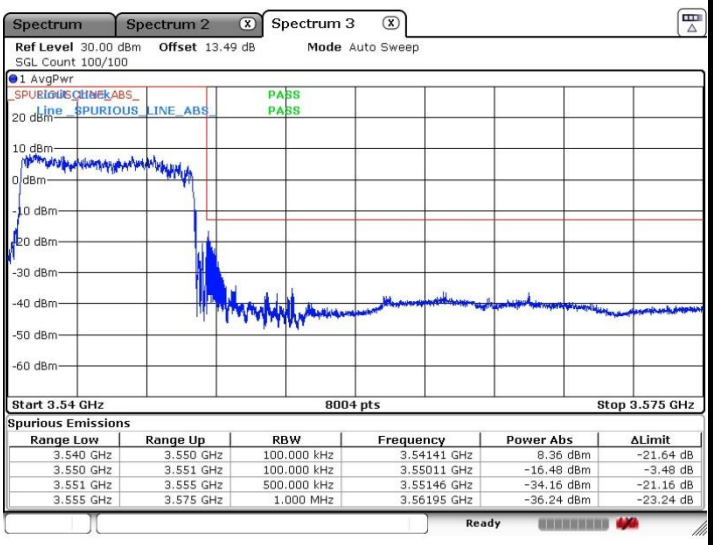


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.44425 GHz	-29.43 dBm	-16.43 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44742 GHz	-34.57 dBm	-21.57 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44994 GHz	-17.42 dBm	-4.42 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45287 GHz	8.23 dBm	-21.77 dB

Date: 3.DEC.2021 00:55:30

Highest Band Edge / Full RB



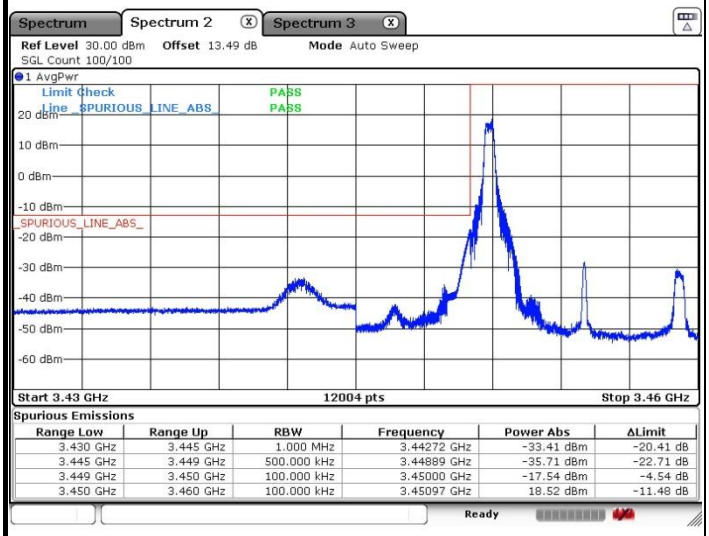
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54141 GHz	8.36 dBm	-21.64 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55011 GHz	-16.48 dBm	-3.48 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55146 GHz	-34.16 dBm	-21.16 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.56195 GHz	-36.24 dBm	-23.24 dB

Date: 3.DEC.2021 01:08:45

FR1 n78 / 10MHz / DFT-S OFDM / 256Q

Lowest Band Edge / 1RB0

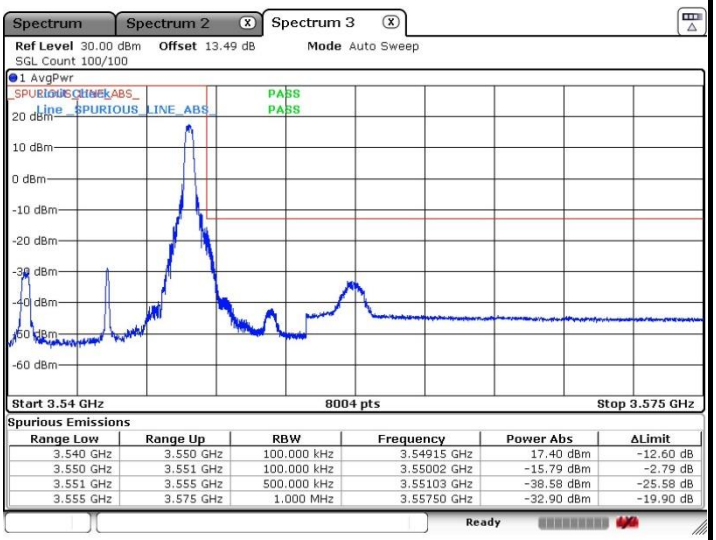


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.44272 GHz	-33.41 dBm	-20.41 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44889 GHz	-35.71 dBm	-22.71 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.45000 GHz	-17.54 dBm	-4.54 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45097 GHz	18.52 dBm	-11.48 dB

Date: 3.DEC.2021 00:59:07

Highest Band Edge / 1RB24

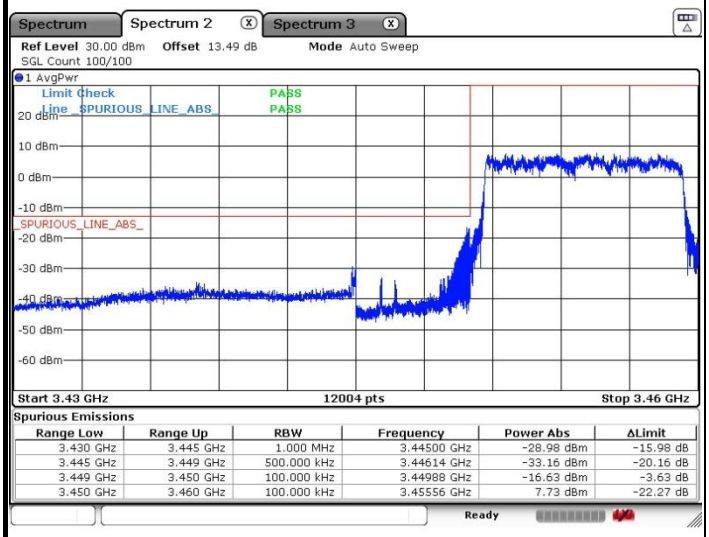


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54915 GHz	17.40 dBm	-12.60 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55002 GHz	-15.79 dBm	-2.79 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55103 GHz	-38.58 dBm	-25.58 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55750 GHz	-32.90 dBm	-19.90 dB

Date: 3.DEC.2021 01:11:45

Lowest Band Edge / Full RB

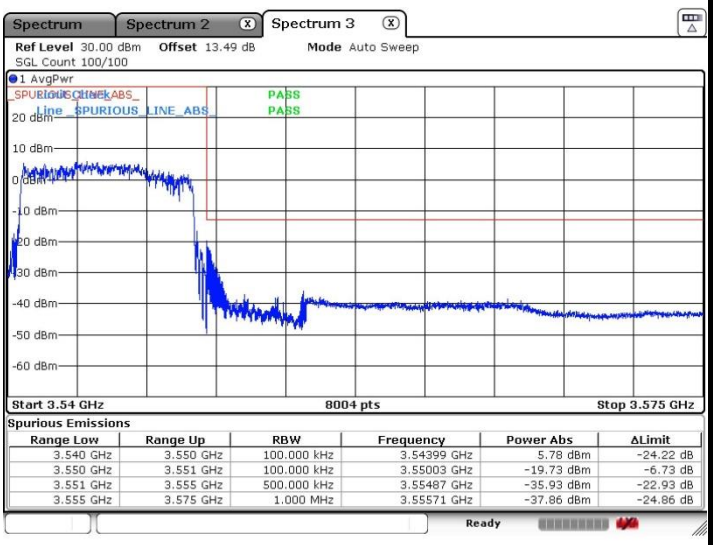


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.44500 GHz	-28.98 dBm	-15.98 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44614 GHz	-33.16 dBm	-20.16 dB
3.449 GHz	3.450 GHz	100.000 kHz	3.44988 GHz	-16.63 dBm	-3.63 dB
3.450 GHz	3.460 GHz	100.000 kHz	3.45556 GHz	7.73 dBm	-22.27 dB

Date: 3.DEC.2021 00:55:53

Highest Band Edge / Full RB



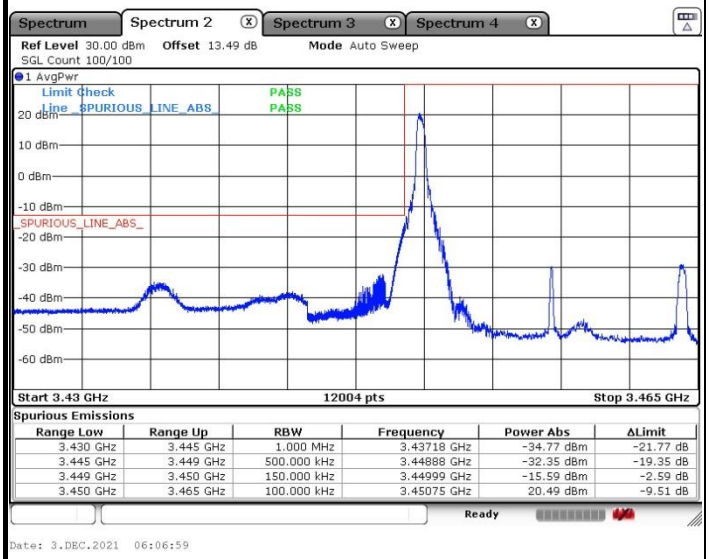
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.540 GHz	3.550 GHz	100.000 kHz	3.54399 GHz	5.78 dBm	-24.22 dB
3.550 GHz	3.551 GHz	100.000 kHz	3.55003 GHz	-19.73 dBm	-6.73 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55487 GHz	-35.93 dBm	-22.93 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55571 GHz	-37.86 dBm	-24.86 dB

Date: 3.DEC.2021 01:09:11

FR1 n78 / 15MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

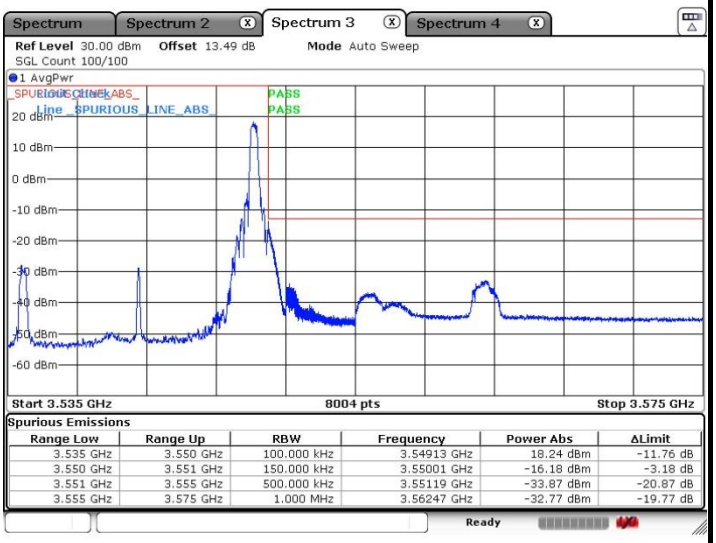


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.43718 GHz	-34.77 dBm	-21.77 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44888 GHz	-32.35 dBm	-19.35 dB
3.449 GHz	3.450 GHz	150.000 kHz	3.44999 GHz	-15.59 dBm	-2.59 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45075 GHz	20.49 dBm	-9.51 dB

Date: 3.DEC.2021 06:06:59

Highest Band Edge / 1RBmax

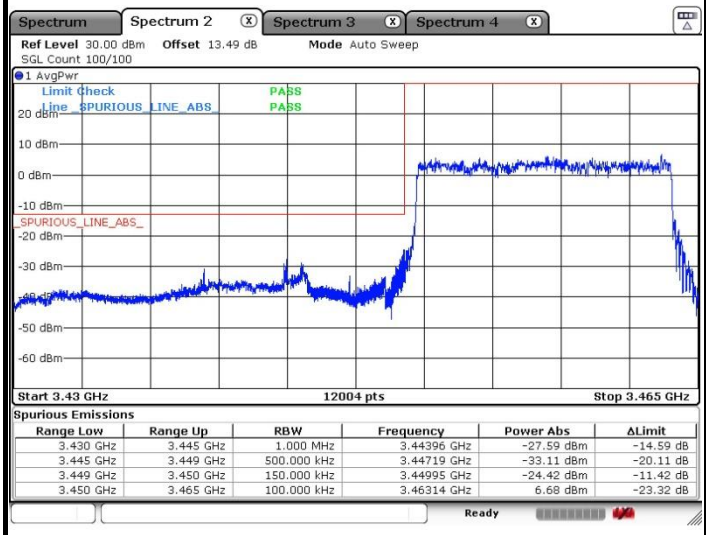


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54913 GHz	18.24 dBm	-11.76 dB
3.550 GHz	3.551 GHz	150.000 kHz	3.55001 GHz	-16.18 dBm	-3.18 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55119 GHz	-33.87 dBm	-20.87 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.56247 GHz	-32.77 dBm	-19.77 dB

Date: 3.DEC.2021 06:08:33

Lowest Band Edge / Full RB

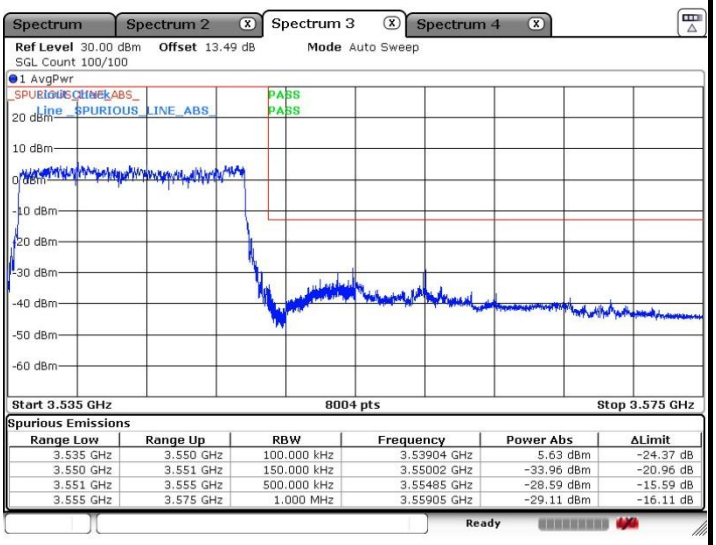


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.44396 GHz	-27.59 dBm	-14.59 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44719 GHz	-33.11 dBm	-20.11 dB
3.449 GHz	3.450 GHz	150.000 kHz	3.44995 GHz	-24.42 dBm	-11.42 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.46314 GHz	6.68 dBm	-23.32 dB

Date: 3.DEC.2021 06:00:52

Highest Band Edge / Full RB



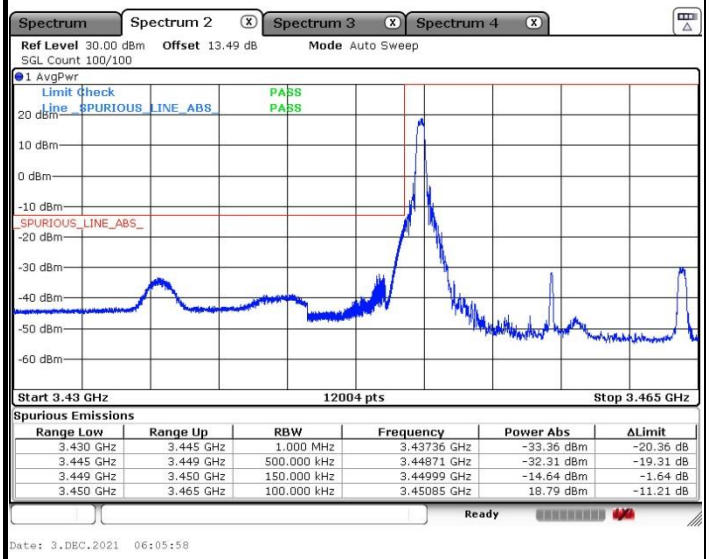
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.53904 GHz	5.63 dBm	-24.37 dB
3.550 GHz	3.551 GHz	150.000 kHz	3.55002 GHz	-33.96 dBm	-20.96 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55485 GHz	-28.59 dBm	-15.59 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55905 GHz	-29.11 dBm	-16.11 dB

Date: 3.DEC.2021 06:13:19

FR1 n78 / 15MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

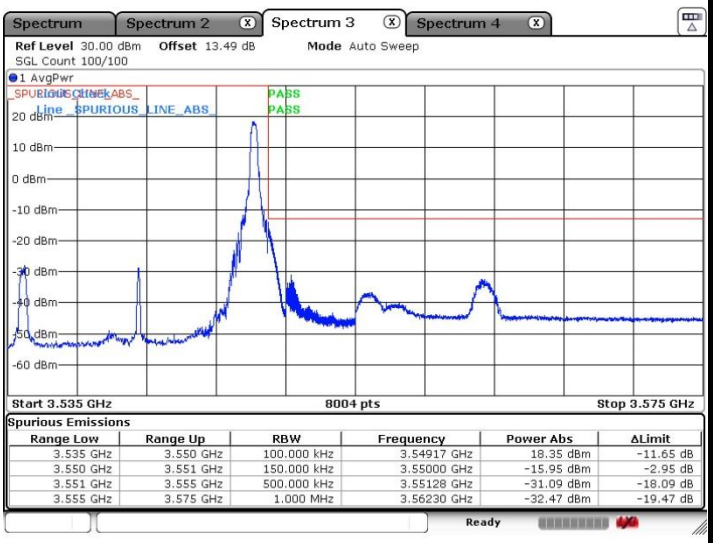


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.43736 GHz	-33.36 dBm	-20.36 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44871 GHz	-32.31 dBm	-19.31 dB
3.449 GHz	3.450 GHz	150.000 kHz	3.44999 GHz	-14.64 dBm	-1.64 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45085 GHz	18.79 dBm	-11.21 dB

Date: 3.DEC.2021 06:05:58

Highest Band Edge / 1RBmax

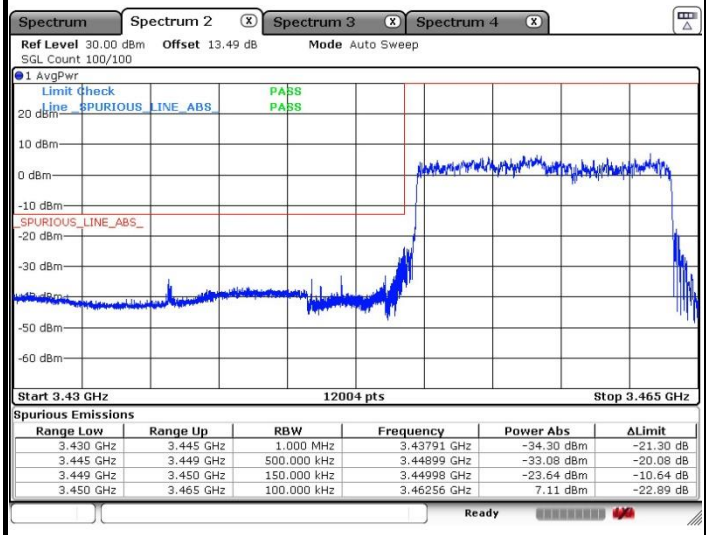


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54917 GHz	18.35 dBm	-11.65 dB
3.550 GHz	3.551 GHz	150.000 kHz	3.55000 GHz	-15.95 dBm	-2.95 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55128 GHz	-31.09 dBm	-18.09 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.56230 GHz	-32.47 dBm	-19.47 dB

Date: 3.DEC.2021 06:09:20

Lowest Band Edge / Full RB

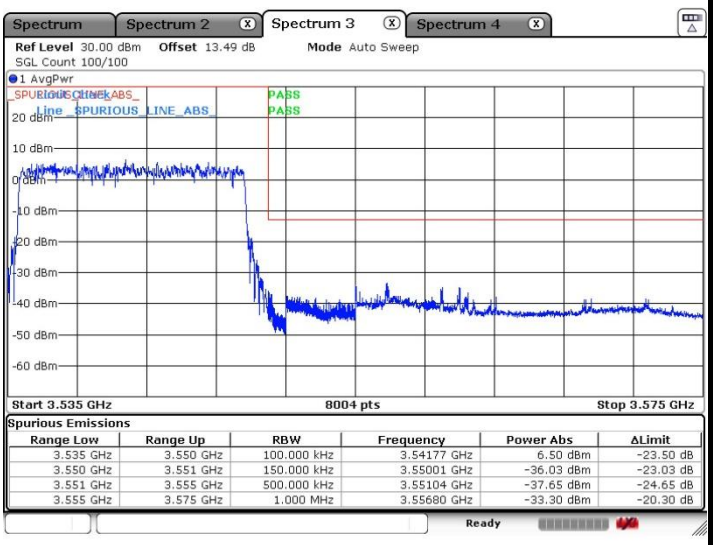


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.43791 GHz	-34.30 dBm	-21.30 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44899 GHz	-33.08 dBm	-20.08 dB
3.449 GHz	3.450 GHz	150.000 kHz	3.44998 GHz	-23.64 dBm	-10.64 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.46256 GHz	7.11 dBm	-22.89 dB

Date: 3.DEC.2021 06:00:11

Highest Band Edge / Full RB



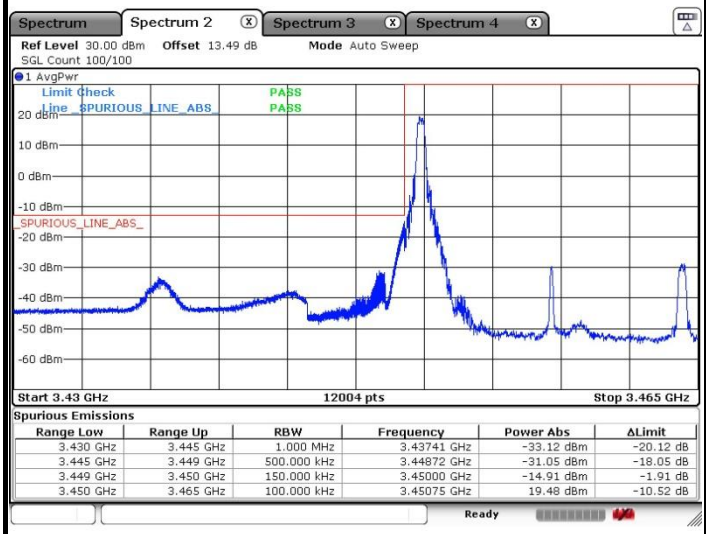
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54177 GHz	6.50 dBm	-23.50 dB
3.550 GHz	3.551 GHz	150.000 kHz	3.55001 GHz	-36.03 dBm	-23.03 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55104 GHz	-37.65 dBm	-24.65 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55680 GHz	-33.30 dBm	-20.30 dB

Date: 3.DEC.2021 06:12:54

FR1 n78 / 15MHz / DFT-S OFDM / 16Q

Lowest Band Edge / 1RB0

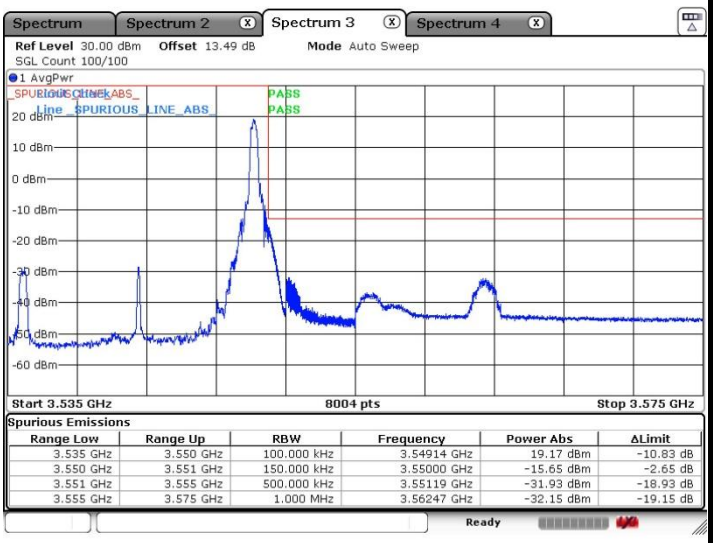


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.43741 GHz	-33.12 dBm	-20.12 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44872 GHz	-31.05 dBm	-18.05 dB
3.449 GHz	3.450 GHz	150.000 kHz	3.45000 GHz	-14.91 dBm	-1.91 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45075 GHz	19.48 dBm	-10.52 dB

Date: 3.DEC.2021 06:04:42

Highest Band Edge / 1RBmax

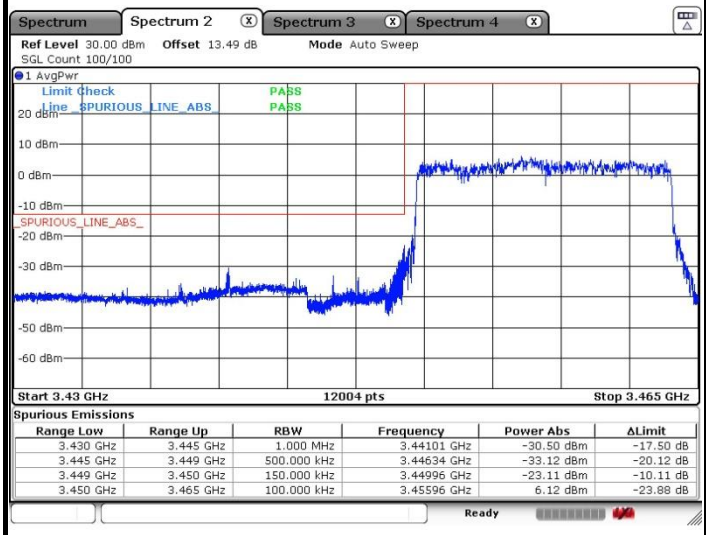


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54914 GHz	19.17 dBm	-10.83 dB
3.550 GHz	3.551 GHz	150.000 kHz	3.55000 GHz	-15.65 dBm	-2.65 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55119 GHz	-31.93 dBm	-18.93 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.56247 GHz	-32.15 dBm	-19.15 dB

Date: 3.DEC.2021 06:09:59

Lowest Band Edge / Full RB

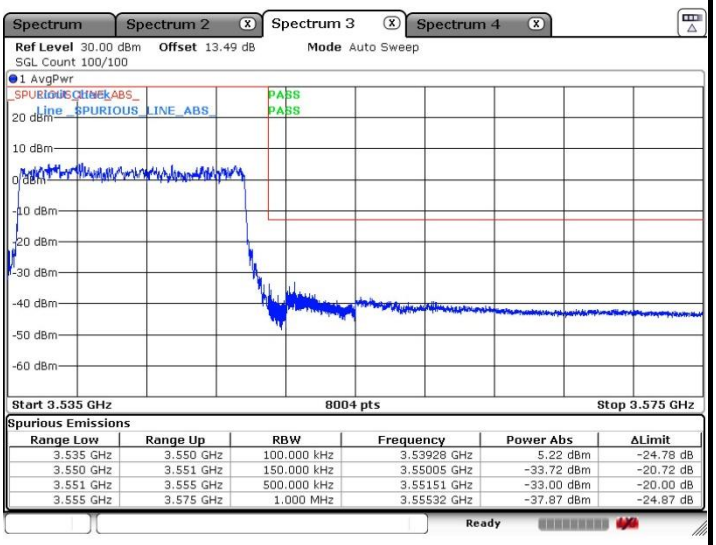


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.44101 GHz	-30.50 dBm	-17.50 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44634 GHz	-33.12 dBm	-20.12 dB
3.449 GHz	3.450 GHz	150.000 kHz	3.44996 GHz	-23.11 dBm	-10.11 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45596 GHz	6.12 dBm	-23.88 dB

Date: 3.DEC.2021 06:01:10

Highest Band Edge / Full RB



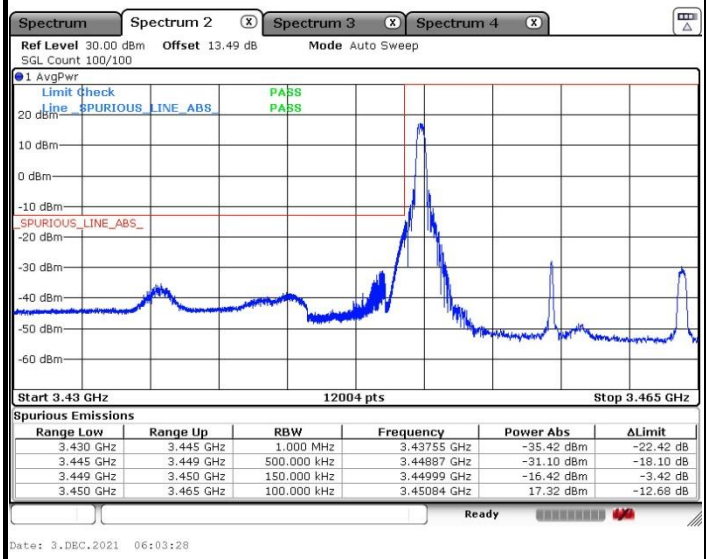
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.53928 GHz	5.22 dBm	-24.78 dB
3.550 GHz	3.551 GHz	150.000 kHz	3.55005 GHz	-33.72 dBm	-20.72 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55151 GHz	-33.00 dBm	-20.00 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55532 GHz	-37.87 dBm	-24.87 dB

Date: 3.DEC.2021 06:12:35

FR1 n78 / 15MHz / DFT-S OFDM / 64Q

Lowest Band Edge / 1RB0

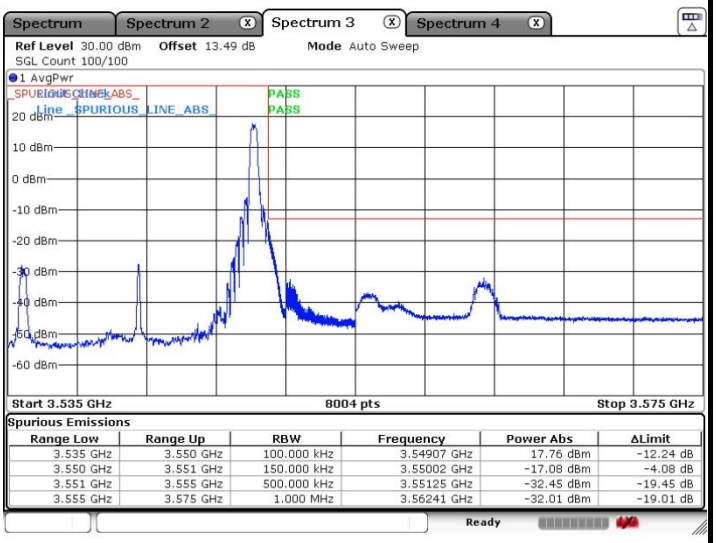


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.43755 GHz	-35.42 dBm	-22.42 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44887 GHz	-31.10 dBm	-18.10 dB
3.449 GHz	3.450 GHz	150.000 kHz	3.44999 GHz	-16.42 dBm	-3.42 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45084 GHz	17.32 dBm	-12.68 dB

Date: 3.DEC.2021 06:03:28

Highest Band Edge / 1RB24

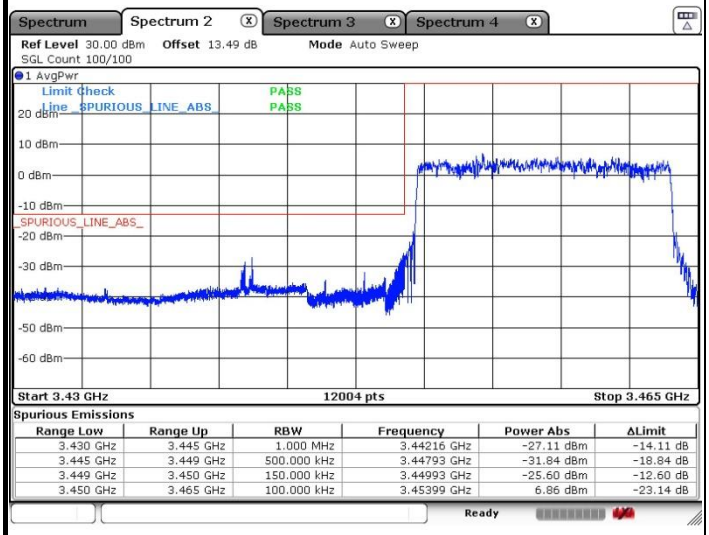


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54907 GHz	17.76 dBm	-12.24 dB
3.550 GHz	3.551 GHz	150.000 kHz	3.55002 GHz	-17.08 dBm	-4.08 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55125 GHz	-32.45 dBm	-19.45 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.56241 GHz	-32.01 dBm	-19.01 dB

Date: 3.DEC.2021 06:10:40

Lowest Band Edge / Full RB

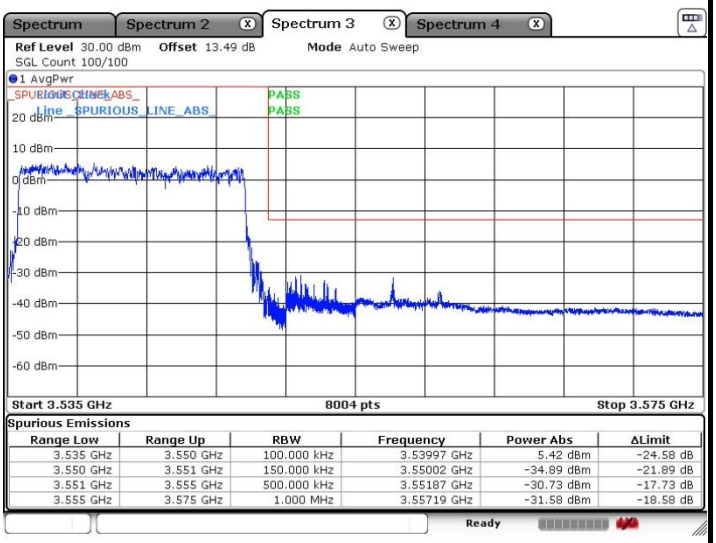


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.44216 GHz	-27.11 dBm	-14.11 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44793 GHz	-31.84 dBm	-18.84 dB
3.449 GHz	3.450 GHz	150.000 kHz	3.44993 GHz	-25.60 dBm	-12.60 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45399 GHz	6.86 dBm	-23.14 dB

Date: 3.DEC.2021 06:01:31

Highest Band Edge / Full RB



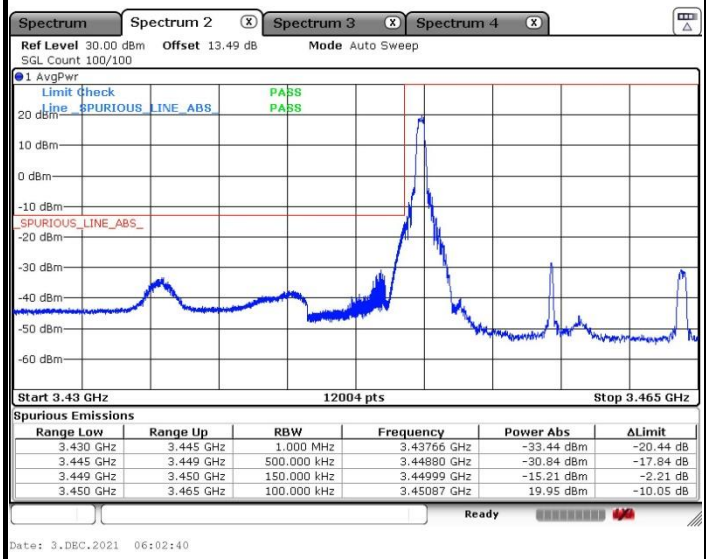
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.53997 GHz	5.42 dBm	-24.58 dB
3.550 GHz	3.551 GHz	150.000 kHz	3.55002 GHz	-34.89 dBm	-21.89 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55187 GHz	-30.73 dBm	-17.73 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55719 GHz	-31.58 dBm	-18.58 dB

Date: 3.DEC.2021 06:12:18

FR1 n78 / 15MHz / DFT-S OFDM / 256Q

Lowest Band Edge / 1RB0

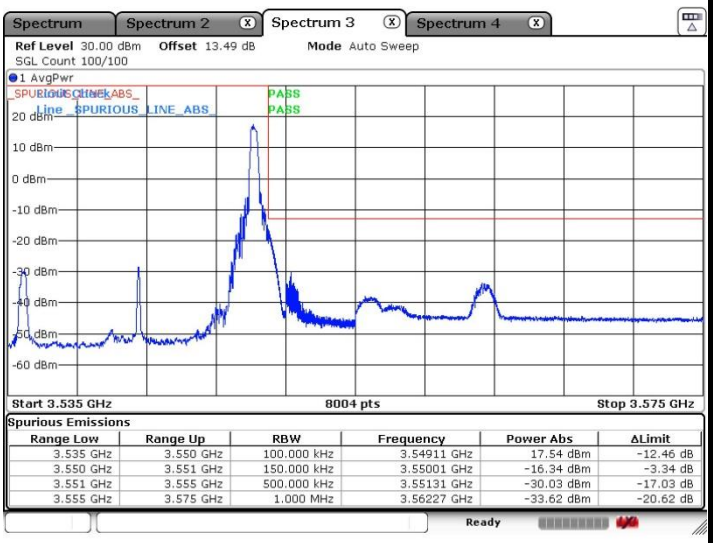


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.43766 GHz	-33.44 dBm	-20.44 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44880 GHz	-30.84 dBm	-17.84 dB
3.449 GHz	3.450 GHz	150.000 kHz	3.44999 GHz	-15.21 dBm	-2.21 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45087 GHz	19.95 dBm	-10.05 dB

Date: 3.DEC.2021 06:02:40

Highest Band Edge / 1RB24

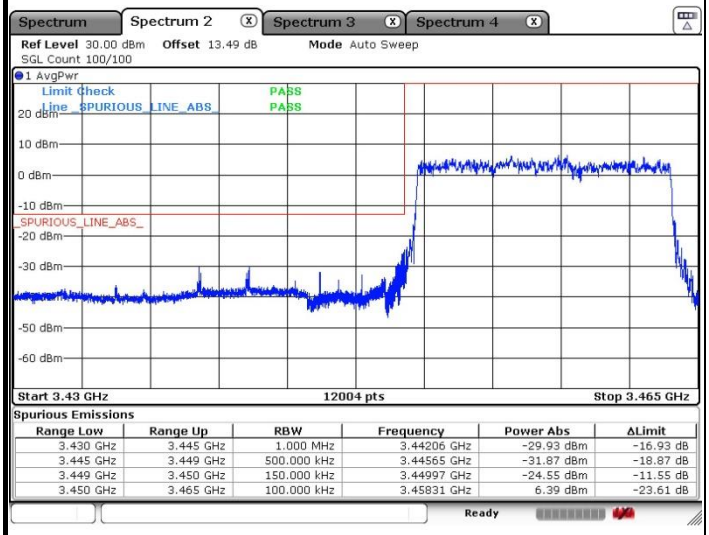


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54911 GHz	17.54 dBm	-12.46 dB
3.550 GHz	3.551 GHz	150.000 kHz	3.55001 GHz	-16.34 dBm	-3.34 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55131 GHz	-30.03 dBm	-17.03 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.56227 GHz	-33.62 dBm	-20.62 dB

Date: 3.DEC.2021 06:11:24

Lowest Band Edge / Full RB

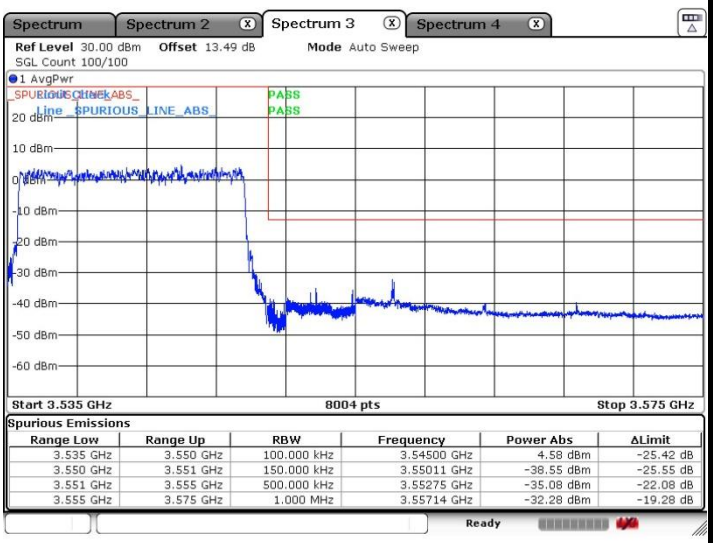


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.44206 GHz	-29.93 dBm	-16.93 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44565 GHz	-31.87 dBm	-18.87 dB
3.449 GHz	3.450 GHz	150.000 kHz	3.44997 GHz	-24.55 dBm	-11.55 dB
3.450 GHz	3.465 GHz	100.000 kHz	3.45831 GHz	6.39 dBm	-23.61 dB

Date: 3.DEC.2021 06:01:49

Highest Band Edge / Full RB



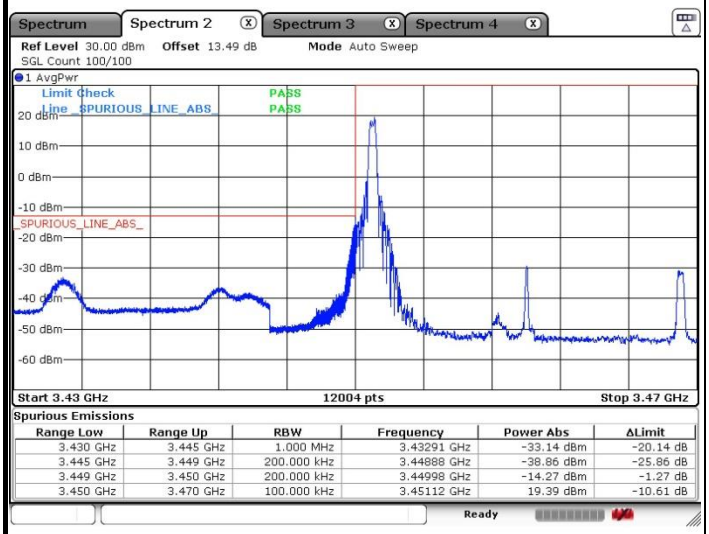
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.535 GHz	3.550 GHz	100.000 kHz	3.54500 GHz	4.58 dBm	-25.42 dB
3.550 GHz	3.551 GHz	150.000 kHz	3.55011 GHz	-38.55 dBm	-25.55 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55275 GHz	-35.08 dBm	-22.08 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55714 GHz	-32.28 dBm	-19.28 dB

Date: 3.DEC.2021 06:11:56

FR1 n78 / 20MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

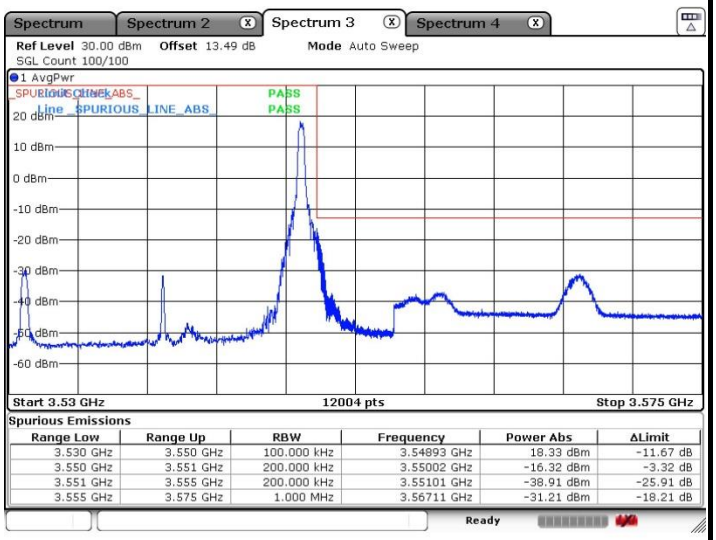


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.43291 GHz	-33.14 dBm	-20.14 dB
3.445 GHz	3.449 GHz	200.000 kHz	3.44888 GHz	-38.86 dBm	-25.86 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44998 GHz	-14.27 dBm	-1.27 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45112 GHz	19.39 dBm	-10.61 dB

Date: 1.DEC.2021 13:47:47

Highest Band Edge / 1RBmax

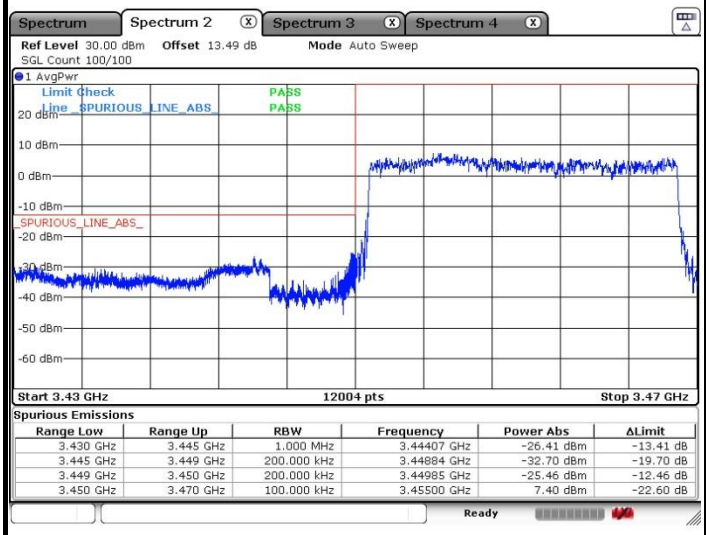


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.54893 GHz	18.33 dBm	-11.67 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55002 GHz	-16.32 dBm	-3.32 dB
3.551 GHz	3.555 GHz	200.000 kHz	3.55101 GHz	-38.91 dBm	-25.91 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.56711 GHz	-31.21 dBm	-18.21 dB

Date: 1.DEC.2021 13:51:04

Lowest Band Edge / Full RB

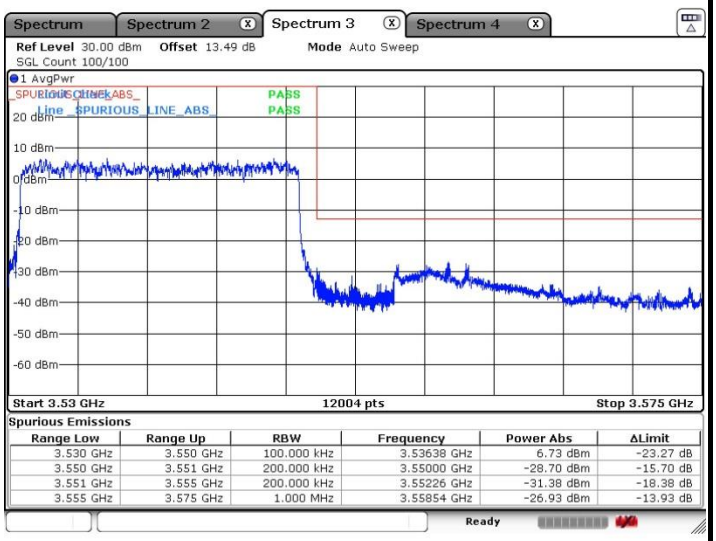


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.44407 GHz	-26.41 dBm	-13.41 dB
3.445 GHz	3.449 GHz	200.000 kHz	3.44884 GHz	-32.70 dBm	-19.70 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44985 GHz	-25.46 dBm	-12.46 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45500 GHz	7.40 dBm	-22.60 dB

Date: 1.DEC.2021 13:47:28

Highest Band Edge / Full RB



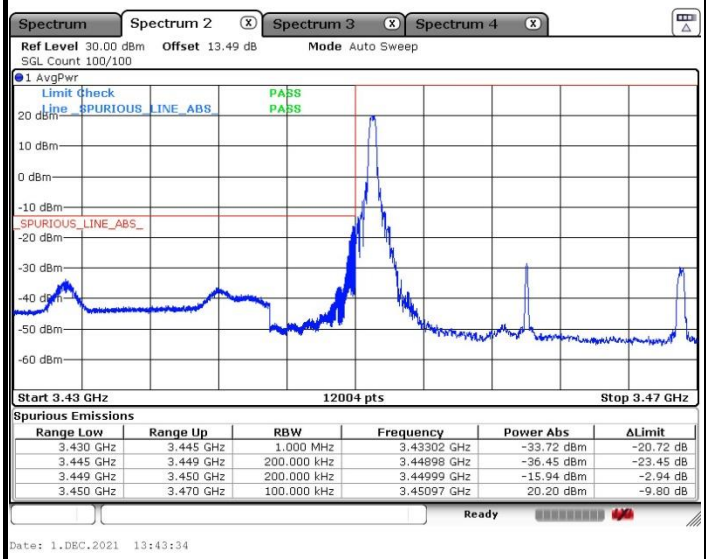
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.53638 GHz	6.73 dBm	-23.27 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55000 GHz	-28.70 dBm	-15.70 dB
3.551 GHz	3.555 GHz	200.000 kHz	3.55226 GHz	-31.38 dBm	-18.38 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55854 GHz	-26.93 dBm	-13.93 dB

Date: 1.DEC.2021 13:50:18

FR1 n78 / 20MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

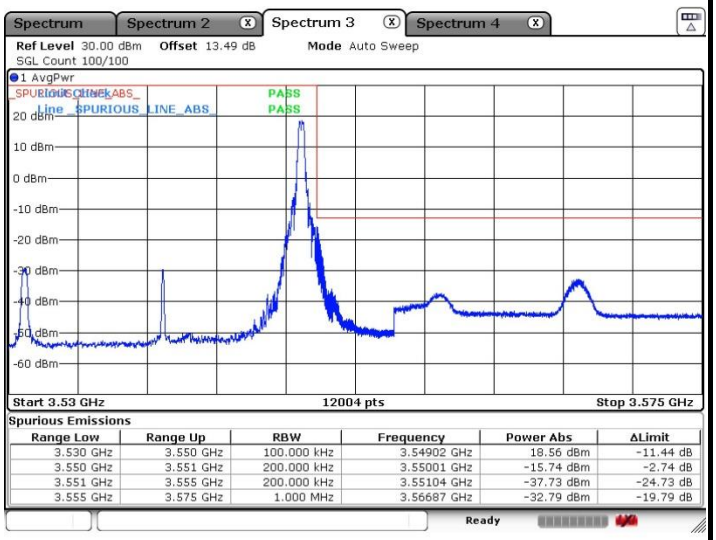


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.43302 GHz	-33.72 dBm	-20.72 dB
3.445 GHz	3.449 GHz	200.000 kHz	3.44898 GHz	-36.45 dBm	-23.45 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44999 GHz	-15.94 dBm	-2.94 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45097 GHz	20.20 dBm	-9.80 dB

Date: 1.DEC.2021 13:43:34

Highest Band Edge / 1RBmax

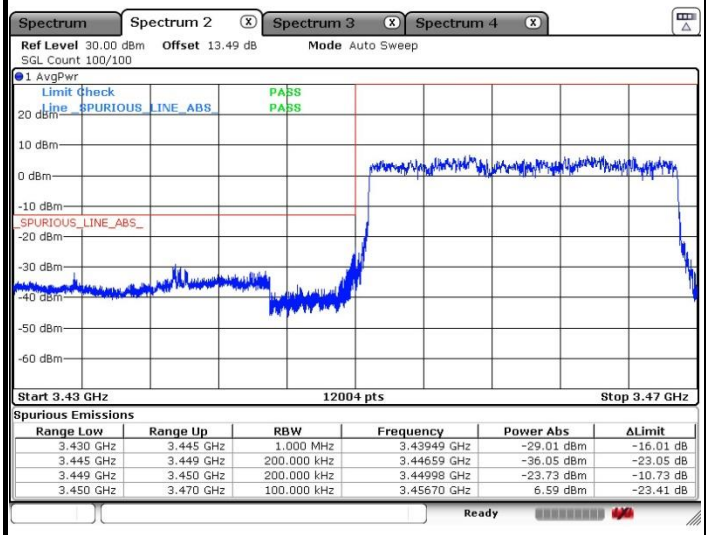


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.54902 GHz	18.56 dBm	-11.44 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55001 GHz	-15.74 dBm	-2.74 dB
3.551 GHz	3.555 GHz	200.000 kHz	3.55104 GHz	-37.73 dBm	-24.73 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.56687 GHz	-32.79 dBm	-19.79 dB

Date: 1.DEC.2021 13:51:48

Lowest Band Edge / Full RB

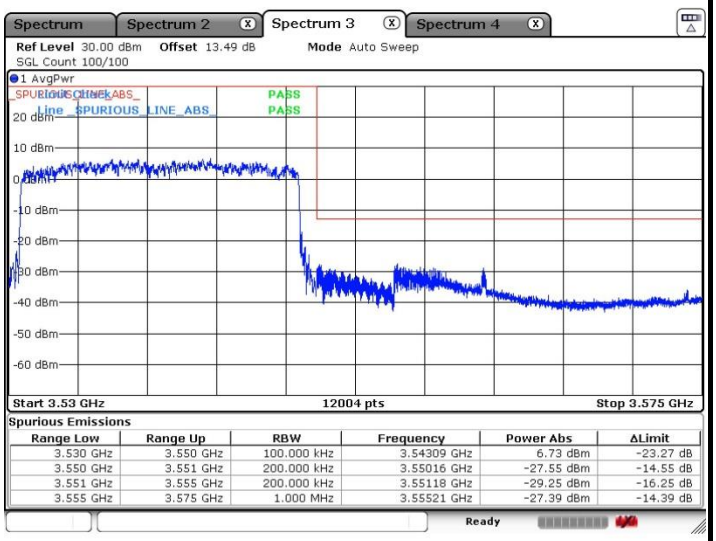


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.430 GHz	3.445 GHz	1.000 MHz	3.43949 GHz	-29.01 dBm	-16.01 dB
3.445 GHz	3.449 GHz	200.000 kHz	3.44659 GHz	-36.05 dBm	-23.05 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44998 GHz	-23.73 dBm	-10.73 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45670 GHz	6.59 dBm	-23.41 dB

Date: 1.DEC.2021 13:47:01

Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.54309 GHz	6.73 dBm	-23.27 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55016 GHz	-27.55 dBm	-14.55 dB
3.551 GHz	3.555 GHz	200.000 kHz	3.55118 GHz	-29.25 dBm	-16.25 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55521 GHz	-27.39 dBm	-14.39 dB

Date: 1.DEC.2021 13:53:41