



RF MEASUREMENT REPORT

FCC ID: XMR2023RG525FNA
Application: Quectel Wireless Solutions Co., Ltd
Product: 5G Sub-6 GHz LGA Module
Model No.: RG525F-NA
Brand Name: Quectel
FCC Rule Part(s): Part 96
Test Procedure(s): ANSI C63.26: 2015
Result: Complies
Received Date: 2022-11-14
Test Date: 2022-12-17 ~ 2023-02-12

Reviewed By:

Sunny Sun
Sunny Sun

Approved By:

Robin Wu
Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.26-2015. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2211RSU034-U5	Rev. 01	Initial Report	2023-02-23	Valid

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1. General Information

1.1. Applicant

Quectel Wireless Solutions Co., Ltd

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

1.2. Manufacturer

Quectel Wireless Solutions Co., Ltd

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233

1.3. Testing Facility

☒	Test Site - MRT Suzhou Laboratory Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China Laboratory Accreditations A2LA: 3628.01 CNAS: L10551 FCC: CN1166 ISED: CN0001 VCCI: ☐ R-20025 ☐ G-20034 ☐ C-20020 ☐ T-20020 ☐ R-20141 ☐ G-20134 ☐ C-20103 ☐ T-20104
☐	Test Site - MRT Shenzhen Laboratory Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China Laboratory Accreditations A2LA: 3628.02 CNAS: L10551 FCC: CN1284 ISED: CN0105
☐	Test Site - MRT Taiwan Laboratory Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) Laboratory Accreditations TAF: L3261-190725 FCC: 291082, TW3261 ISED: TW3261

1.4. Product Information

Product Name	5G Sub-6 GHz LGA Module
Model No.	RG525F-NA
Brand Name	Quectel
IMEI	Conducted Measurement 1: 860465060012444 Conducted Measurement 2: 860465060013152 Radiated Measurement: 860465060012444
E-UTRA Band	Band 2, 4, 5, 7, 12, 13, 14, 17, 25, 26, 30, 38, 41, 42, 43, 48, 66, 71
5G NR Band	n2, n5, n7, n12, n13, n14, n25, n26, n30, n38, n41, n48, n66, n71, n77, n78
Operating Temperature	-30 ~ 75 °C
Power Type	3.3 ~ 4.4Vdc, typical 3.8Vdc
Remark: 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.	

1.5. Radio Specification

TDD Tx & Rx Frequency Range	Band 48: 3550 ~ 3700 MHz
Intra-Band	CA_48C
Modulation	UL & DL up to 256QAM
Device Type	End User Device
Remark: For other features of this EUT, test report will be issued separately.	

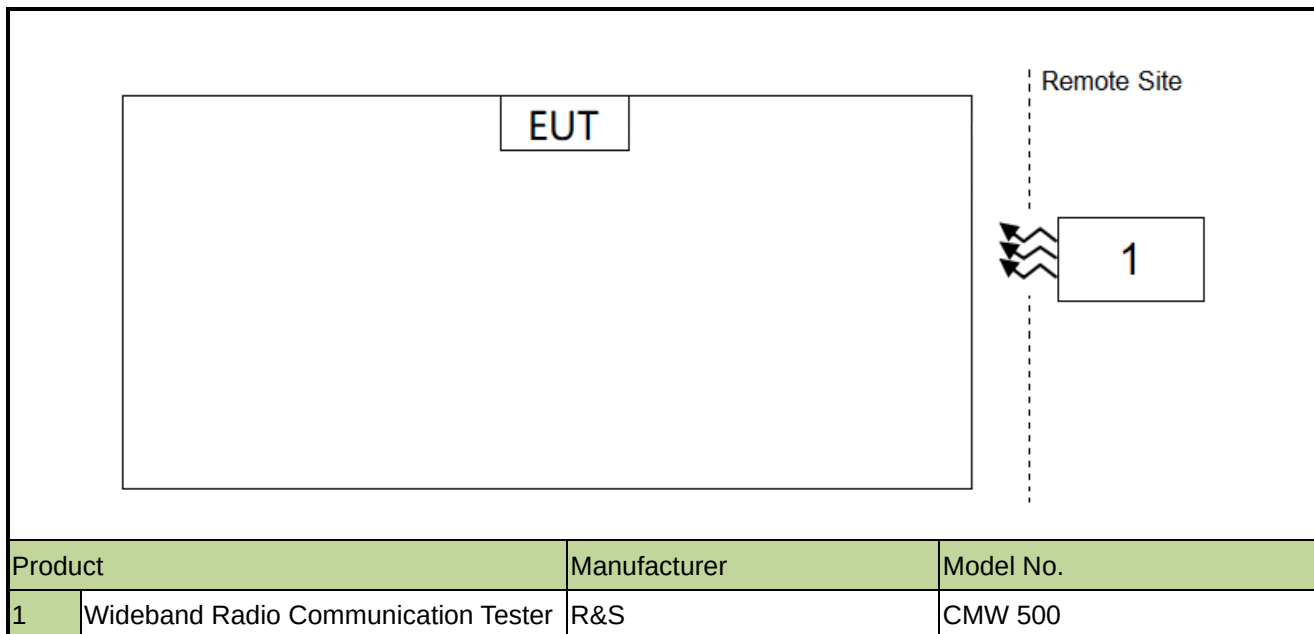
1.6. Test Methodology

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

- ANSI C63.26:2015
- FCC CFR 47 Part Part 96
- FCC KDB 971168 D01 v03r01: Power Meas License Digital Systems
- FCC KDB 971168 D02 v02r01: Misc Rev Approv License Devices
- FCC KDB 412172 D01 v01r01: Determining ERP and EIRP
- FCC KDB 940660 D01 v03 Part 96 CBRS Eqpt
- WINNF-TS-0122 V1.0.2: Test and Certification for Citizens Broadband Radio Service (CBRS);
Conformance and Performance Test Technical Specification; CBSD/DP as Unit Under Test (UUT)

2. Test Configuration

2.1. Test System Connection Diagram



2.2. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20% ~ 75%RH

3. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
EMI Test Receiver	R&S	ESR3	MRTSUE06185	1 year	2022-12-28	SIP-AC2
EMI Test Receiver	R&S	ESR3	MRTSUE06185	1 year	2023-12-28	SIP-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06602	1 year	2023-10-10	SIP-AC2
EMI Test Receiver	R&S	ESR3	MRTSUE06613	1 year	2023-06-01	SIP-AC2
Preamplifier	EMCI	EMC001330	MRTSUE06643	1 year	2023-01-13	SIP-AC2
Loop Antenna	Schwarzbeck	FMZB 1519 B	MRTSUE06937	1 year	2023-03-14	SIP-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06598	1 year	2023-11-05	SIP-AC2
Preamplifier	EMCI	EMC051845SE	MRTSUE06601	1 year	2023-11-22	SIP-AC2
Thermohygrometer	testo	608-H1	MRTSUE06623	1 year	2023-11-27	SIP-AC2
Thermohygrometer	testo	608-H1	MRTSUE06624	1 year	2023-11-27	SIP-AC2
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06647	1 year	2023-07-13	SIP-AC2
Anechoic Chamber	RIKEN	SIP-AC2	MRTSUE06781	1 year	2022-12-22	SIP-AC2
Anechoic Chamber	RIKEN	SIP-AC2	MRTSUE06781	1 year	2023-12-22	SIP-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06648	1 year	2023-10-22	SIP-AC2
Test loop antenna	MRT	d-2m	MRTSUE11131	N/A	N/A	SIP-AC2
Signal Analyzer	Keysight	N9010B	MRTSUE07028	1 year	2023-11-25	SIP-AC2/SIP-TR 1/SIP-SR1
Signal Analyzer	Keysight	N9010B	MRTSUE06559	1 year	2023-06-01	SIP-AC2 SIP-SR1
Signal Analyzer	Keysight	N9010B	MRTSUE06603	1 year	2023-10-25	SIP-AC2 SIP-SR1
Signal Analyzer	Keysight	N9020B	MRTSUE06604	1 year	2023-11-07	SIP-AC2 SIP-SR1
Communication Tester	R&S	CMU 200	MRTSUE06009	1 year	2023-08-23	SIP-SR1
Communication Tester	R&S	CMW500	MRTSUE06243	1 year	2023-10-08	SIP-SR1
Signal Generator	Keysight	E8257D	MRTSUE06453	1 year	2023-06-01	SIP-SR1
Thermohygrometer	testo	622	MRTSUE06629	1 year	2024-01-03	SIP-SR1
5G Wireless Test Platform	Keysight	E7515B	MRTSUE06903	1 year	2023-10-25	SIP-SR1
Signal Generator	Keysight	E8257D	MRTSUE06904	1 year	2023-10-25	SIP-SR1
DC POWER MODULE	Keysight	N6743B	MRTSUE06905	N/A	N/A	SIP-SR1
DC POWER MODULE	Keysight	N6743B	MRTSUE06906	N/A	N/A	SIP-SR1
Low-Profile Modular Power System Mainframe	Keysight	N6700C	MRTSUE06907	N/A	N/A	SIP-SR1
FR1 Switching Unit	Keysight	C8880A	MRTSUE06908	N/A	N/A	SIP-SR1
Signal Analyzer	Keysight	N9021B	MRTSUE06915	1 year	2022-12-28	SIP-SR1

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Signal Analyzer	Keysight	N9021B	MRTSUE06915	1 year	2023-12-28	SIP-SR1
Temperature Chamber	BAOYT	BYG-80CL	MRTSUE06932	1 year	2023-02-27	SIP-SR1
Shielding Room	MIX-BEP	SIP-SR1	MRTSUE06948	N/A	N/A	SIP-SR1
Signal Analyzer	Keysight	N9010B	MRTSUE06558	1 year	2023-06-01	SIP-TR1
Temperature Chamber	BAOYT	BYG-408CS	MRTSUE06847	1 year	2023-02-22	SIP-TR1
Communication Tester	R&S	CMW500	MRTSUE06881	1 year	2023-06-01	SIP-TR1
Thermohygrometer	testo	608-H1	MRTSUE11022	1 year	2023-11-01	SIP-TR1
Signal Analyzer	Keysight	N9030B	MRTSUE06395	1 year	2023-07-08	SIP-TR1
Signal Generator	R&S	SMU200A	MRTSUE06489	1 year	2023-02-22	SIP-TR1
USB Power Sensor	Keysight	U2021XA	MRTSUE06596	1 year	2023-08-23	SIP-TR1
Signal Generator	Keysight	N5182B	MRTSUE06605	1 year	2023-10-25	SIP-TR1
Signal Analyzer	Keysight	N9010B	MRTSUE07036	1 year	2023-03-31	SIP-TR1
USB Power Sensor	Agilent	U2021XA	MRTSUE06030	1 year	2023-10-08	SIP-TR1

Software	Version	Function
EMI Software	V3.0.0	EMI Test Software

4. Decision Rules and Measurement Uncertainty

4.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.
(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

4.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Radiated Spurious Emissions
Measurement Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): Horizontal: 9kHz ~ 300MHz: 5.04dB 300MHz ~ 1GHz: 4.95dB 1GHz ~ 40GHz: 6.40dB Vertical: 9kHz ~ 300MHz: 5.24dB 300MHz ~ 1GHz: 6.03dB 1GHz ~ 40GHz: 6.40dB
Conducted Spurious Emissions
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.78dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 1.13dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.28%
Frequency Stability
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 76.2Hz

5. Test Result

5.1. Summary

FCC Part Section(s)	Test Description	Test Condition	Test Result
2.1049	Occupied Bandwidth	Conducted	Pass
2.1055	Frequency Stability		Pass
96.41(b)	Equivalent Isotropic Radiated Power		Pass
2.1051 96.41(e)	Spurious Emissions; Band Edge Emissions		Pass
2.1053, 96.41(e)	Spurious Emissions	Radiated	Pass
96.47	End User Device Additional Requirements (CBSD Protocol)		Pass

Notes:

- 1) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- 2) All supported modulation types were evaluated. The worst-case emission of modulation was selected. Therefore, the Frequency Stability, Occupied Bandwidth, Channel Band Edge, Radiated & Conducted Spurious Emission were presented worst-case in the test report.

5.2. Occupied Bandwidth Measurement

5.2.1. Test Limit

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

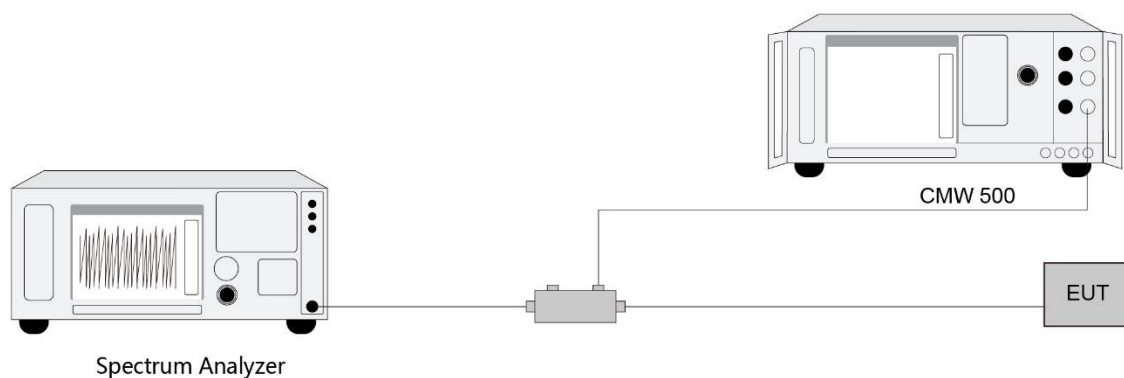
5.2.2. Test Procedure

ANSI C63.26-2015 - Section 5.4

5.2.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency
2. RBW = The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW
3. $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace to stabilize
8. Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

5.2.4. Test Setup



5.2.5. Test Result

Refer to Appendix A.1.

5.3. Frequency Stability Measurement

5.3.1. Test Limit

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. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

5.3.2. Test Procedure

ANSI C63.26-2015 - Section 5.6

5.3.3. Test Setting

Frequency Stability Under Temperature Variations:

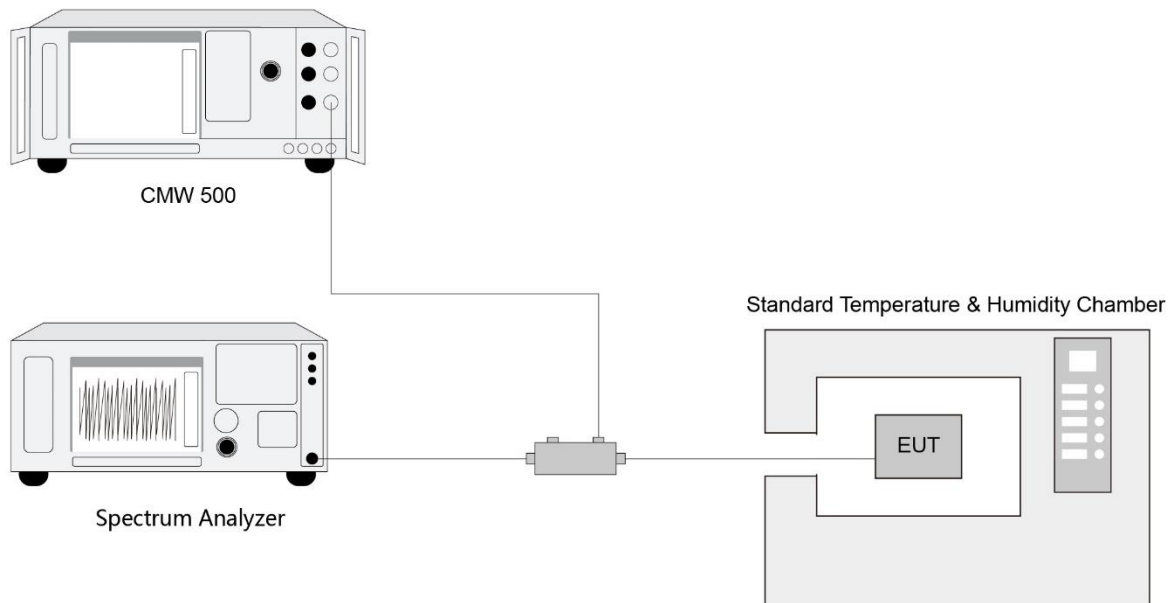
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

5.3.4. Test Setup



5.3.5. Test Result

Refer to Appendix A.2.

5.4. Equivalent Isotropically Radiated Power Measurement

5.4.1. Test Limit

The maximum effective isotropic radiated power (EIRP) End User Device is 23dBm/10MHz

5.4.2. Test Procedure

ANSI C63.26-2015 - Section 5.2.4.4.2 & 5.2.5.5

5.4.3. Test Setting

When the fundamental condition for average power measurements cannot be realized (i.e., the EUT can not be configured to transmit at full-power on a continuous basis (i.e., duty cycle < 98%) and the instrumentation cannot be configured to measure only during active full-power transmissions), then the following procedure can be used if the EUT duty cycle is constant (i.e., duty cycle variations are less than or equal to $\pm 2\%$).

- a) Set span to $2 \times$ to $3 \times$ the OBW.
- b) Set RBW = 1% to 5% of the OBW.
- c) Set VBW $\geq 3 \times$ RBW.
- d) Set number of measurement points in sweep $\geq 2 \times$ span / RBW.
- e) Sweep time:
 - 1) Set = auto-couple, or
 - 2) Set $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission symbol period})]$ for single sweep (automation-compatible) measurement.
- f) Detector = power averaging (rms).
- g) Set sweep trigger to "free run."
- h) Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.
- i) Using the marker function to identify the maximum PSD.
- j) Add $10 \log (1/\text{duty cycle})$ to the measured power level to compute the average power during continuous transmission. For example, add $[10 \log (1/0.25)] = 6 \text{ dB}$ if the duty cycle is a constant 25%.

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T \quad (1)$$

where

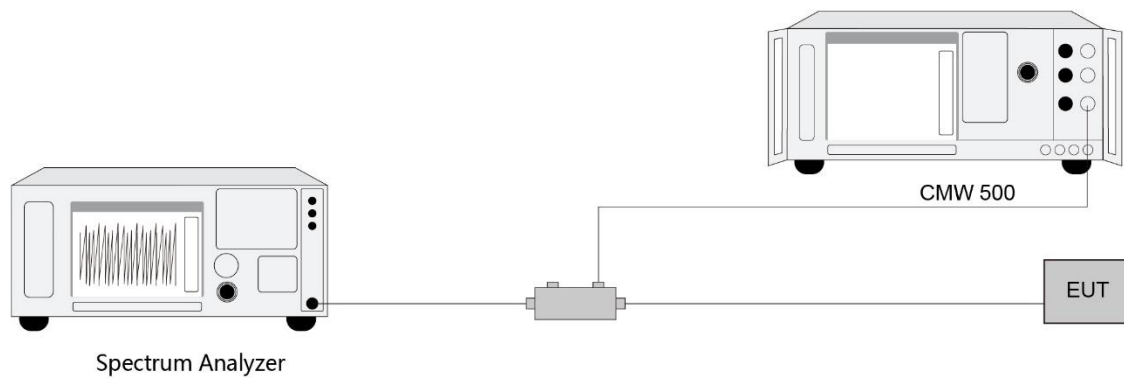
ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

G_T gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

For devices utilizing multiple antennas, see 6.4 for guidance with respect to determining the effective array transmit antenna gain term to be used in the above equation.

5.4.4. Test Setup



5.4.5. Test Result

Refer to Appendix A.3.

5.5. Band Edge Measurement

5.5.1. Test Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated, and the worst-case configuration results are reported in this section.

The conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any emission shall not exceed -25 dBm/MHz. The conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

5.5.2. Test Procedure

ANSI C63.26-2015 - Section 5.7

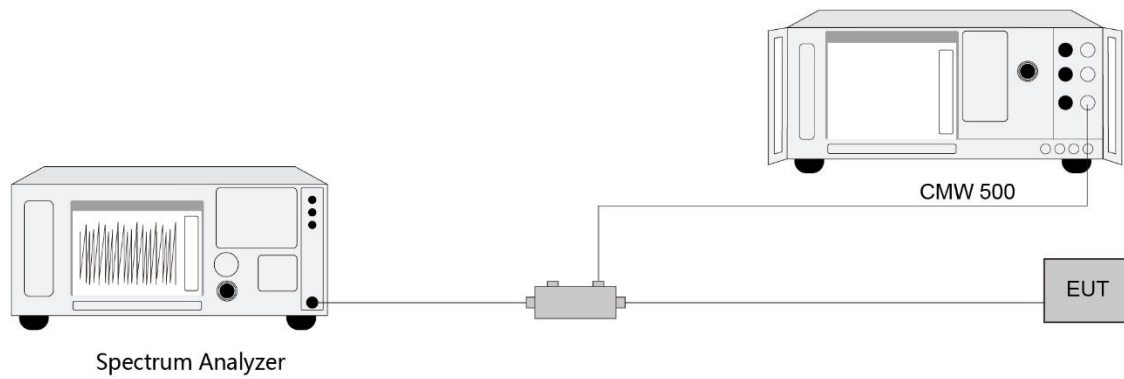
5.5.3. Test Setting

1. Set the analyzer frequency to low, middle, high channel.
2. $RBW \geq$ The nominal RBW shall be in the range of 1% of the anticipated OBW (in the 1MHz band immediately outside and adjacent to the band edge). For improvement of the accuracy in the measurement of the average power of a noise-like emission, a RBW narrower than the specified reference bandwidth can be used (generally limited to no less than 1% of the OBW), provided that a subsequent integration is performed over the full required measurement bandwidth. This integration should be performed using the spectrum analyzer's band power functions.
3. $VBW \geq 3 \cdot RBW$
4. Sweep time = auto
5. Detector = power averaging (rms)
6. Set sweep trigger to "free run."
7. User gate triggered such that the analyzer only sweeps when the device is transmitting at full power
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time,

increase the sweep time.

9. Used power integration when using a measurement bandwidth smaller than the specified bandwidth.

5.5.4. Test Setup



5.5.5. Test Result

Refer to Appendix A.4.

5.6. Conducted Spurious Emissions Measurement

5.6.1. Test Limit

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated, and the worst-case configuration results are reported in this section.

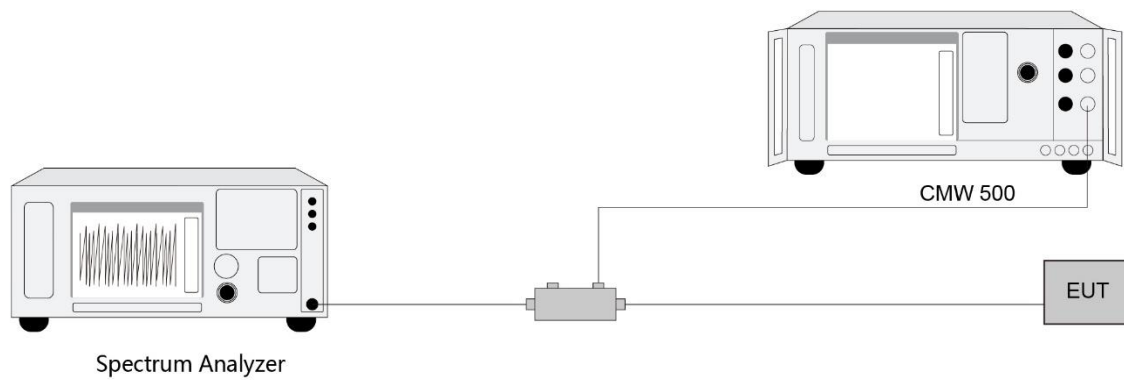
The conducted power of any emissions below 3530MHz or above 3720MHz shall not exceed -40dBm/MHz.

5.6.2. Test Procedure

ANSI C63.26-2015 - Section 5.7

5.6.3. Test Setting

1. Set the analyzer frequency to low, mid, high channel.
2. RBW = 1MHz
3. VBW $\geq 3 \times$ RBW
4. Sweep time = auto
5. Detector = power averaging (rms)
6. Set sweep trigger to "free run."
7. User gate triggered such that the analyzer only sweeps when the device is transmitting at full power.
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.

5.6.4. Test Setup**5.6.5. Test Result**

Refer to Appendix A.5.

5.7. Radiated Spurious Emissions Measurement

5.7.1. Test Limit

Out of band emissions: The power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

$E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20 \log D + 104.8$; where D is the measurement distance in meters. The emission limit equal to 55.3dB μ V/m.

5.7.2. Test Procedure

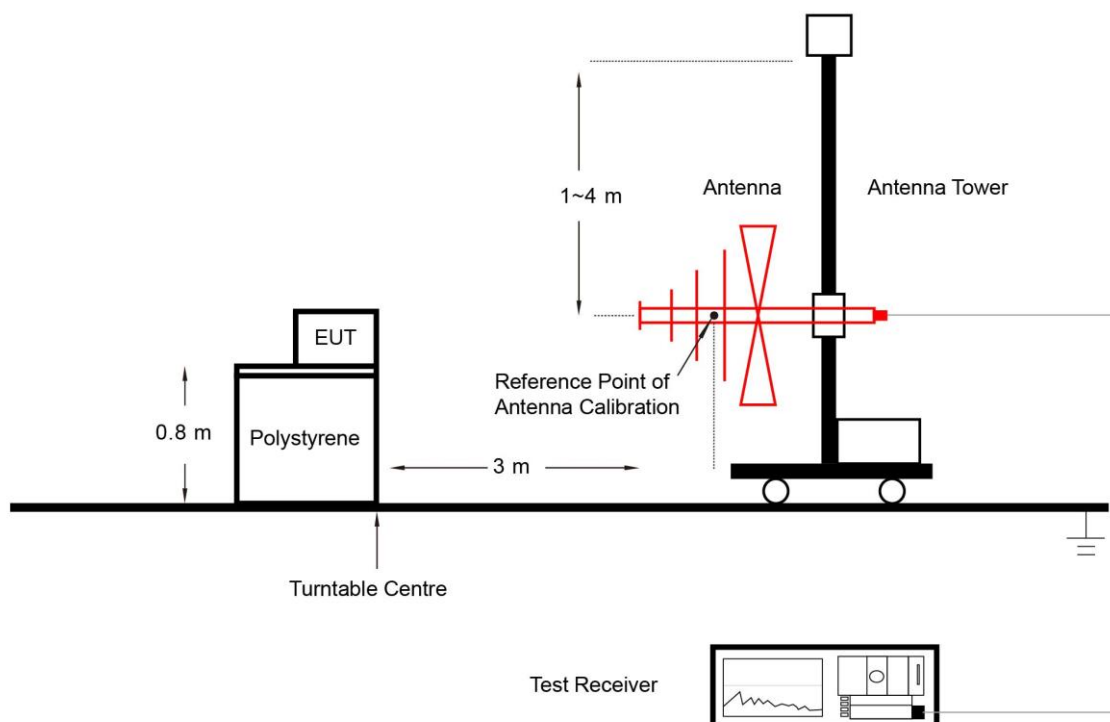
ANSI C63.26-2015 - Section 5.2.7 & 5.5

5.7.3. Test Setting

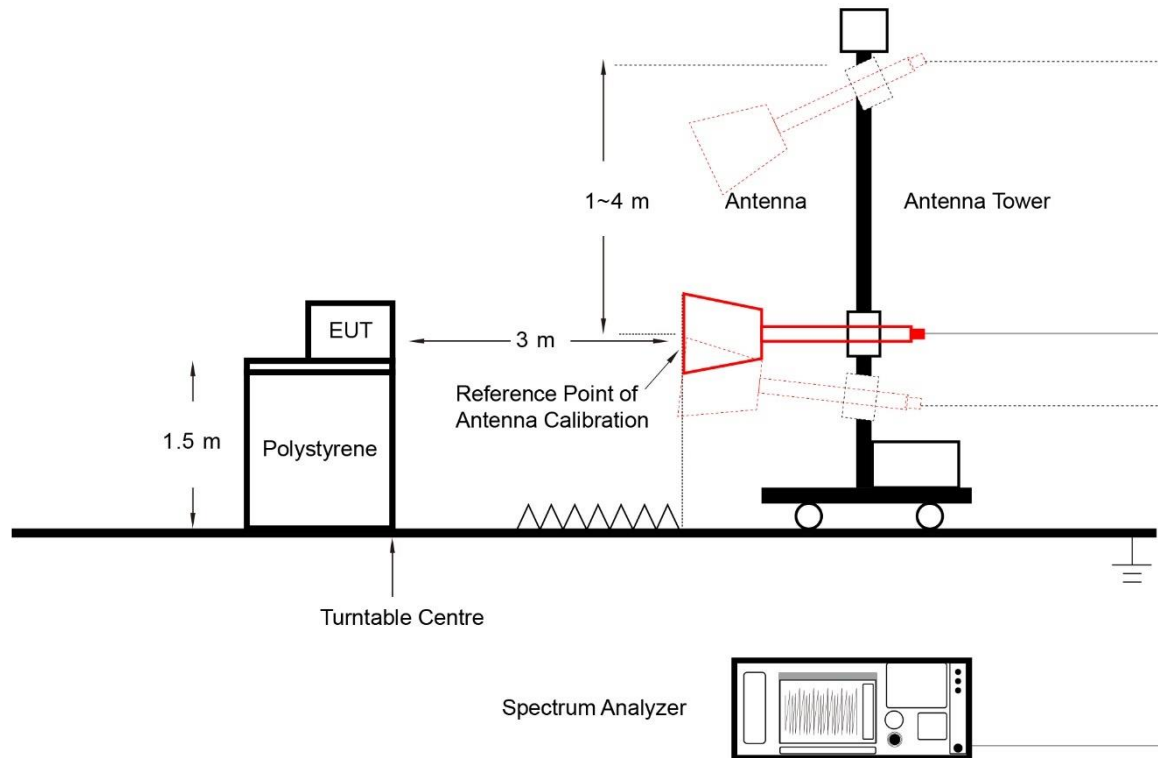
1. RBW = 1MHz
2. VBW $\geq 3 \times$ RBW
3. Sweep time $\geq 10 \times (\text{number of points in sweep}) \times (\text{transmission symbol period})$
4. Detector = Peak
5. Trace mode = max hold
6. The trace was allowed to stabilize

5.7.4. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



5.7.5. Test Result

Refer to Appendix A.6.

5.8. End User Device Additional Requirement (CBSD Protocol) Measurement

5.8.1. Test Limit

End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by aCBSD, including the frequencies and power limits for their operation.

An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

5.8.2. Test Procedure

KDB 940660 D01 v02, WINNF-TS-0122 V1.0.2

5.8.3. Test Setting

The EUT was connected via an RF cable to a certified CBSD (Sercomm Corp. FCC ID: P27-SCE4255W) and spectrum analyzer. The following procedure is performed by applying WINNF-TS-0122 CBRS CBSD Test Specification.

Step 1:

- a. Setup WINNF.PT.C.HBT.1 with 3570 ~ 3590MHz and power level at 6 dBm/MHz.
- b. Enable Smallcell service from EPC Manage Tool.
- c. Check EUT Tx frequency and power.
- d. Disable Smallcell service from EPC Manage Tool and check EUT stop transmission within 10s.

Step 2:

- a. Setup WINNF.PT.C.HBT.1 with 3670 ~ 3690MHz and power level at 11 dBm/MHz.
- b. Enable Smallcell service from EPC Manage Tool.
- c. Check EUT Tx frequency and power.
- d. Disable Smallcell service from EPC Manage Tool and check EUT stop transmission within 10s.

5.8.4. Test Result

Refer to Appendix A.7.

Appendix A - Test Result

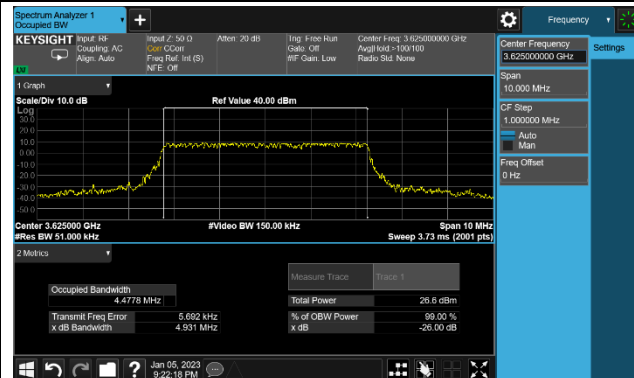
A.1 Occupied Bandwidth Test Result

Test Site	SIP-SR1	Test Engineer	Allen Zou
Test Date	2023-01-05	Test Band	Band 48

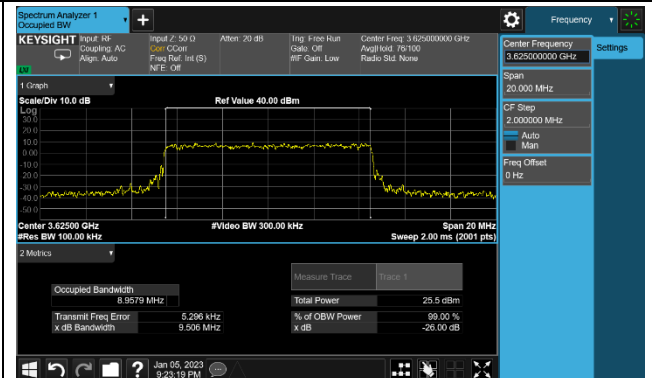
Modulation	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK	3625.0	5	4.4778
		10	8.9579
		15	13.419
		20	17.837
16QAM	3625.0	5	4.4574
		10	8.9213
		15	13.417
		20	17.849
64QAM	3625.0	5	4.4679
		10	8.9611
		15	13.397
		20	17.867
256QAM	3625.0	5	4.4666
		10	8.9095
		15	13.394
		20	17.907

99% Bandwidth - QPSK

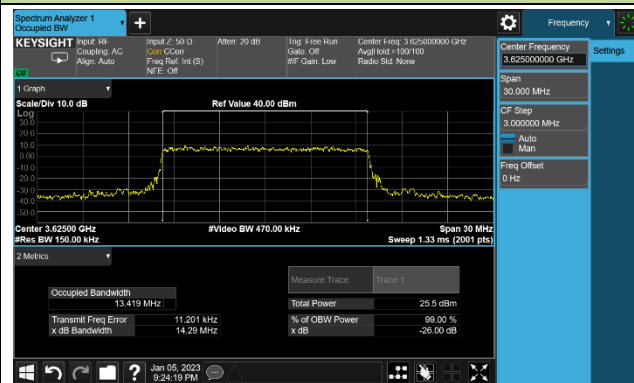
5MHz Channel Bandwidth



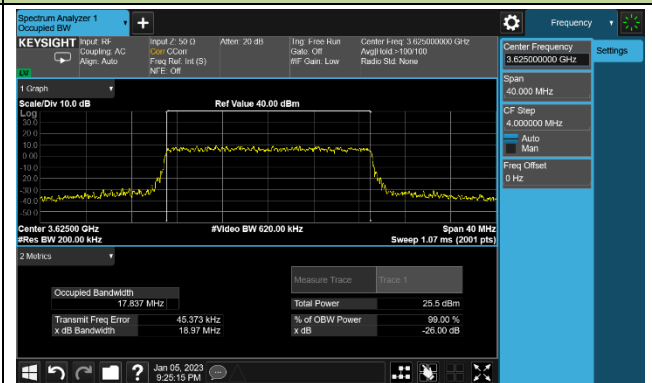
10MHz Channel Bandwidth



15MHz Channel Bandwidth

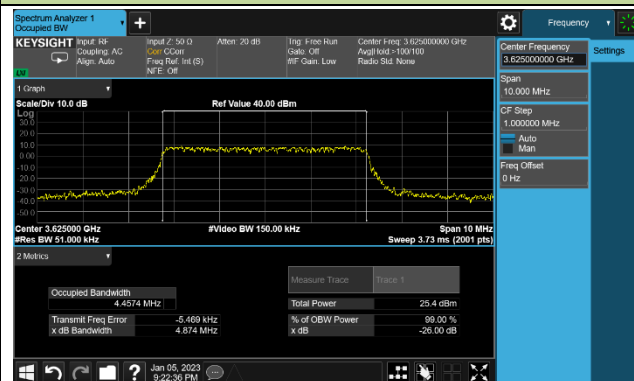


20MHz Channel Bandwidth

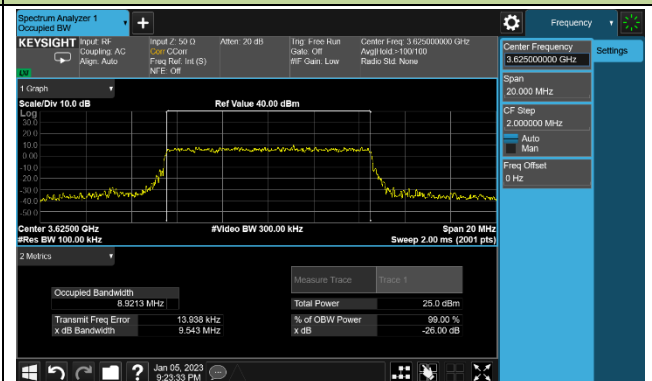


99% Bandwidth -16QAM

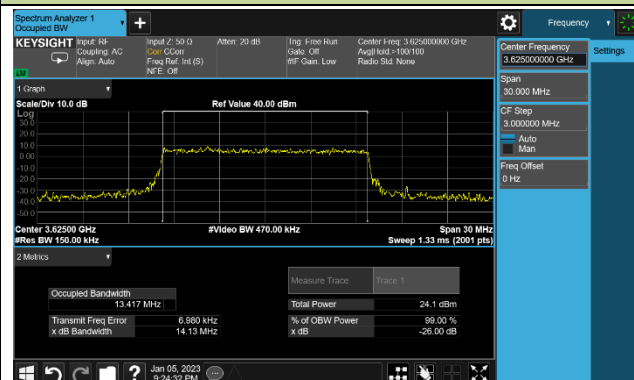
5MHz Channel Bandwidth



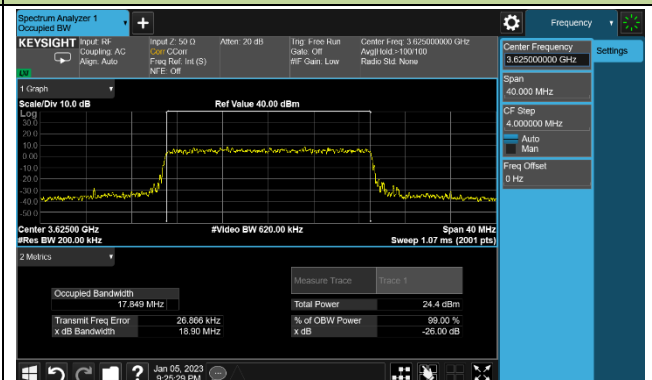
10MHz Channel Bandwidth



15MHz Channel Bandwidth

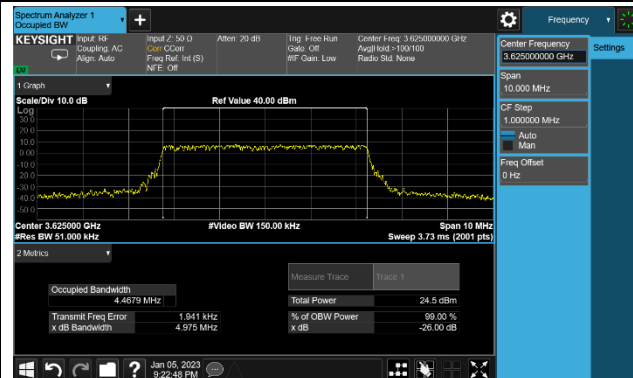


20MHz Channel Bandwidth

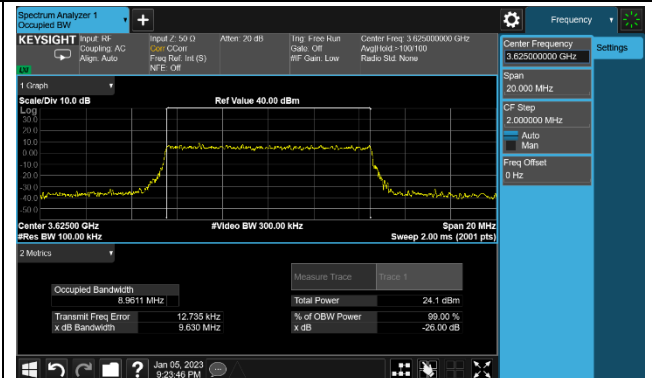


99% Bandwidth - 64QAM

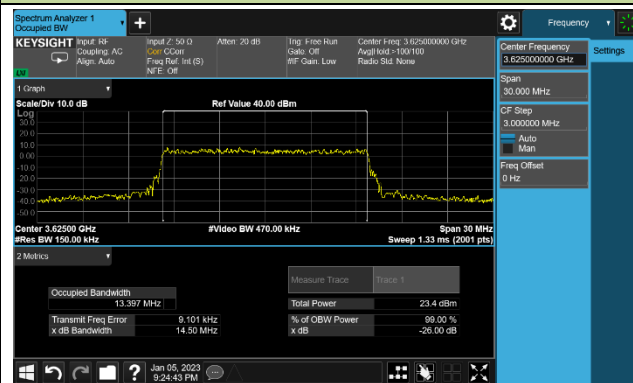
5MHz Channel Bandwidth



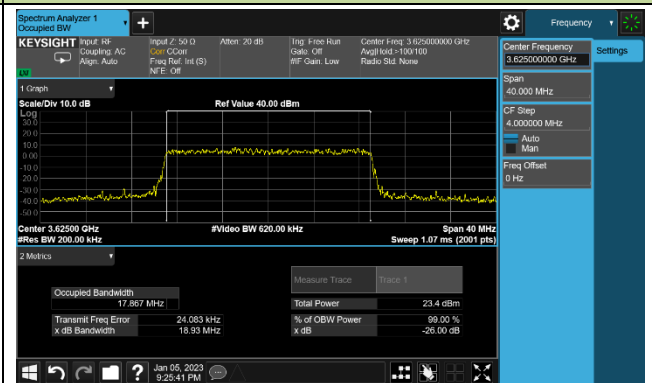
10MHz Channel Bandwidth



15MHz Channel Bandwidth

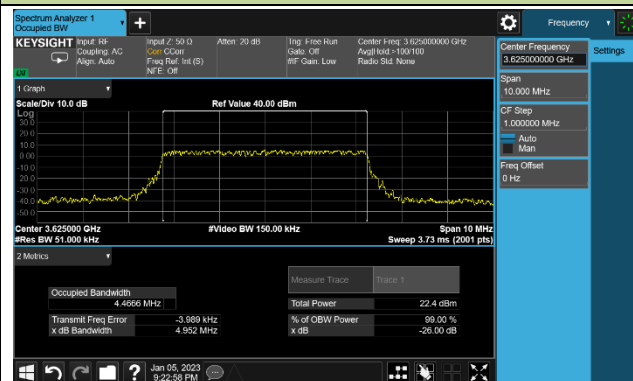


20MHz Channel Bandwidth

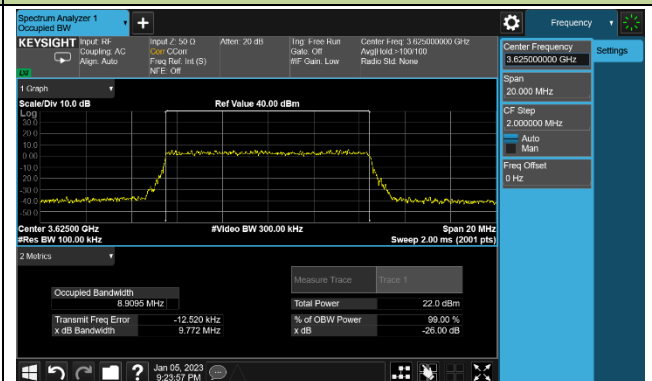


99% Bandwidth - 256QAM

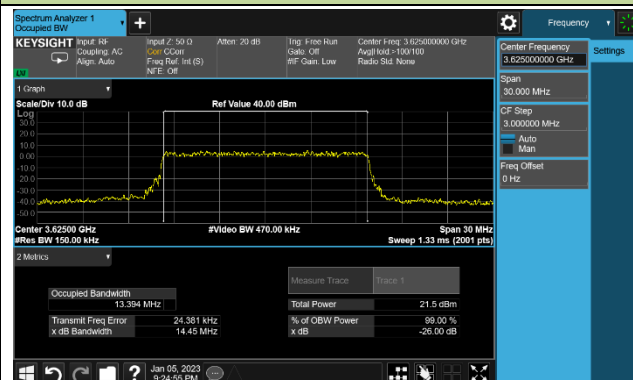
5MHz Channel Bandwidth



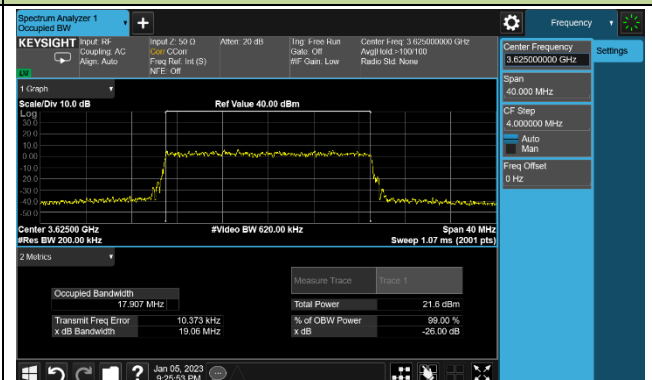
10MHz Channel Bandwidth



15MHz Channel Bandwidth



20MHz Channel Bandwidth

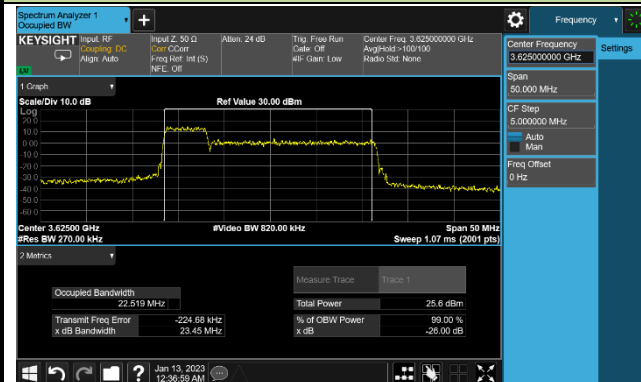


Test Site	SIP-SR1	Test Engineer	Allen Zou
Test Date	2023-01-13	Test Band	Intra-Band CA_48C

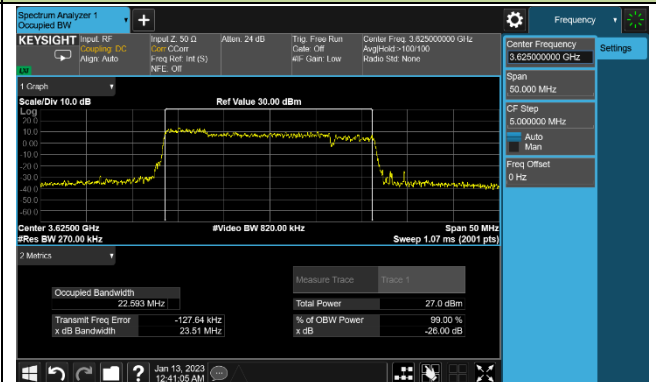
Modulation	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK	3615.8+3627.5	5+20	22.519
	3622.5+3634.2	20+5	22.593
	3615.6+3630.0	10+20	27.280
	3620.1+3634.5	20+10	27.556
	3615.3+3632.4	15+20	32.155
	3617.6+3634.7	20+15	32.430
	3615.1+3634.9	20+20	37.189
16QAM	3615.8+3627.5	5+20	22.512
	3622.5+3634.2	20+5	22.636
	3615.6+3630.0	10+20	27.415
	3620.1+3634.5	20+10	27.505
	3615.3+3632.4	15+20	32.228
	3617.6+3634.7	20+15	32.415
	3615.1+3634.9	20+20	37.133
64QAM	3615.8+3627.5	5+20	22.563
	3622.5+3634.2	20+5	22.736
	3615.6+3630.0	10+20	27.379
	3620.1+3634.5	20+10	27.582
	3615.3+3632.4	15+20	32.258
	3617.6+3634.7	20+15	32.477
	3615.1+3634.9	20+20	37.235
256QAM	3615.8+3627.5	5+20	22.395
	3622.5+3634.2	20+5	22.744
	3615.6+3630.0	10+20	27.403
	3620.1+3634.5	20+10	27.528
	3615.3+3632.4	15+20	32.354
	3617.6+3634.7	20+15	32.208
	3615.1+3634.9	20+20	37.050

99% Bandwidth - QPSK

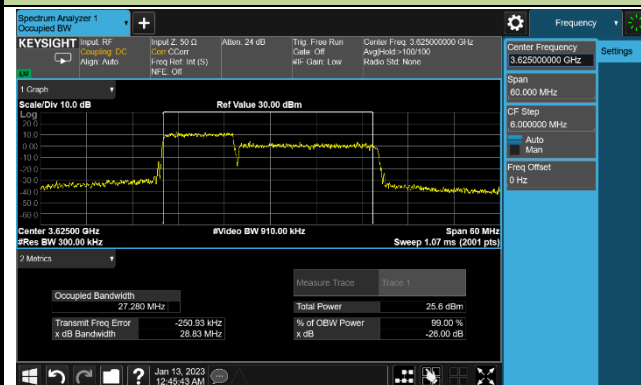
5+20MHz Channel Bandwidth



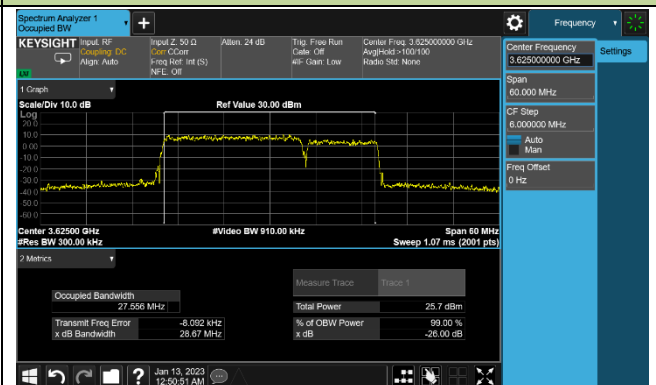
20+5MHz Channel Bandwidth



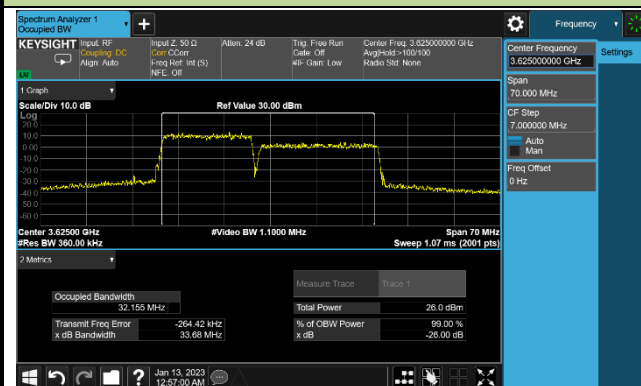
10+20MHz Channel Bandwidth



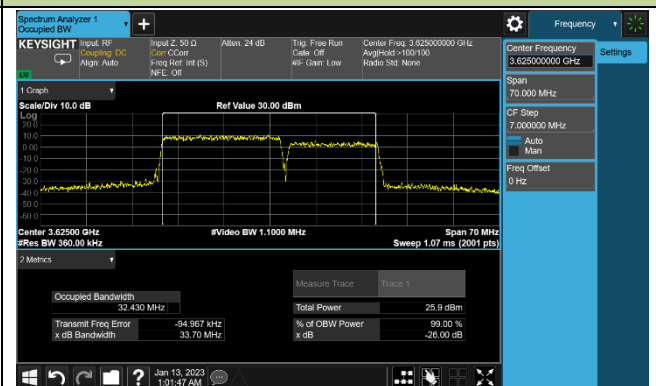
20+10MHz Channel Bandwidth



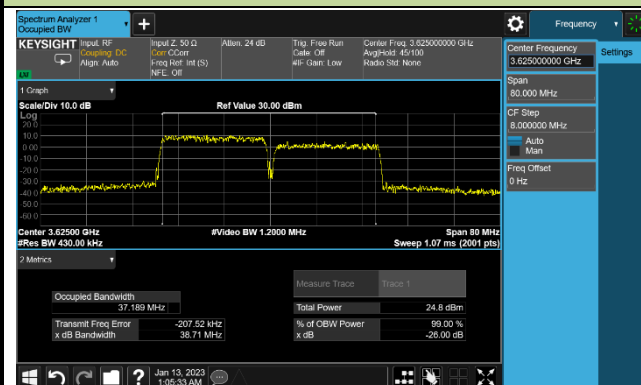
15+20MHz Channel Bandwidth



20+15MHz Channel Bandwidth

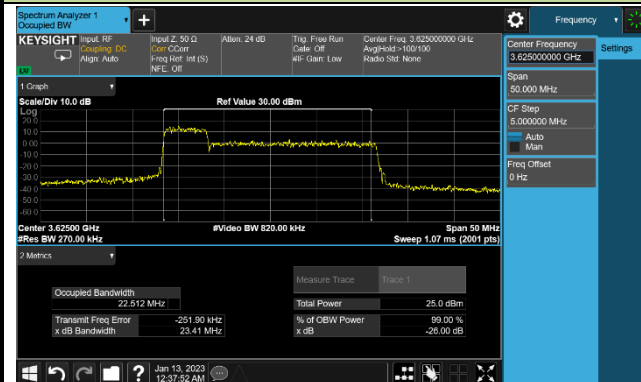


20+20MHz Channel Bandwidth

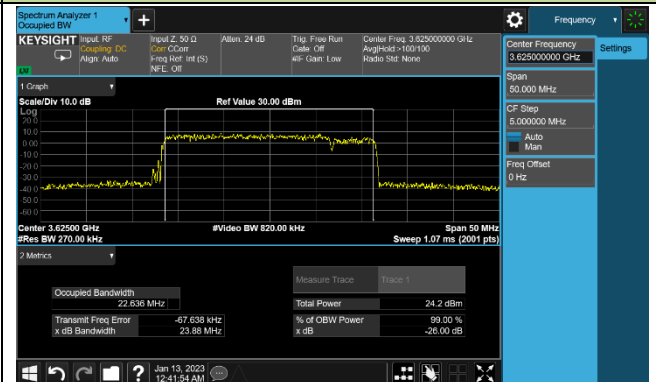


99% Bandwidth - 16QAM

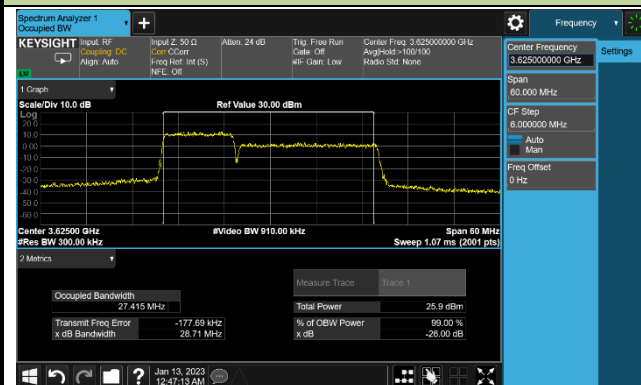
5+20MHz Channel Bandwidth



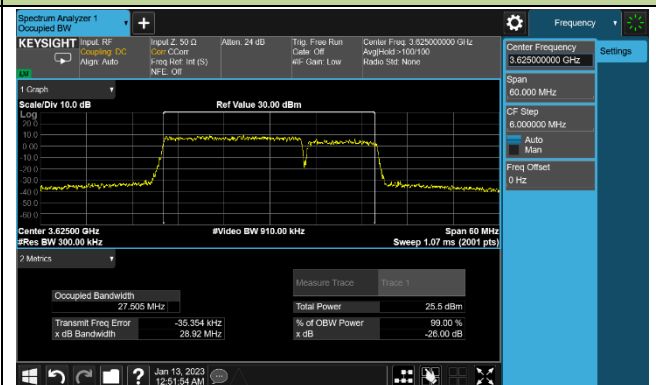
20+5MHz Channel Bandwidth



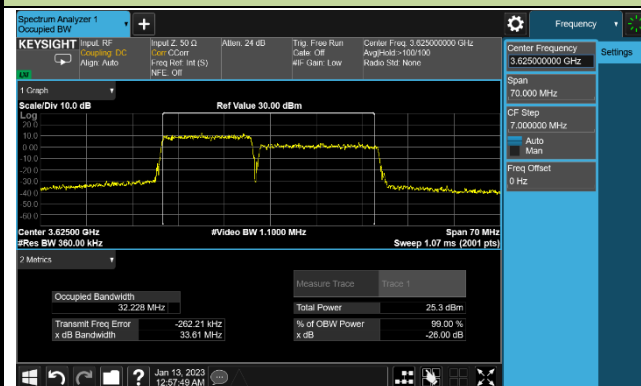
10+20MHz Channel Bandwidth



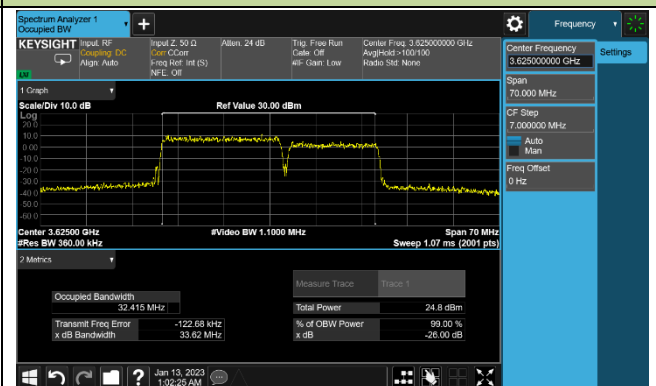
20+10MHz Channel Bandwidth



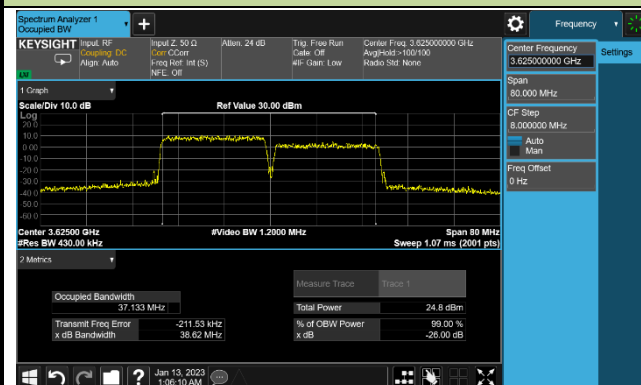
15+20MHz Channel Bandwidth



20+15MHz Channel Bandwidth

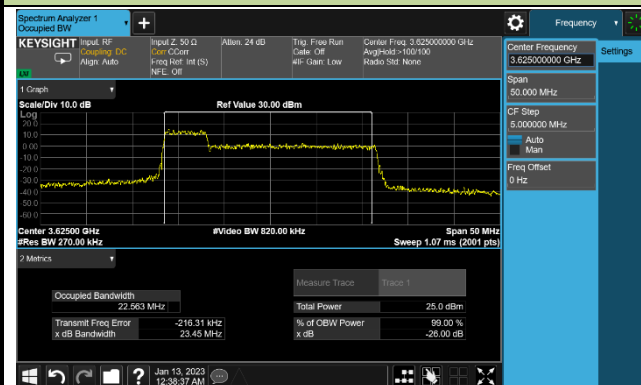


20+20MHz Channel Bandwidth

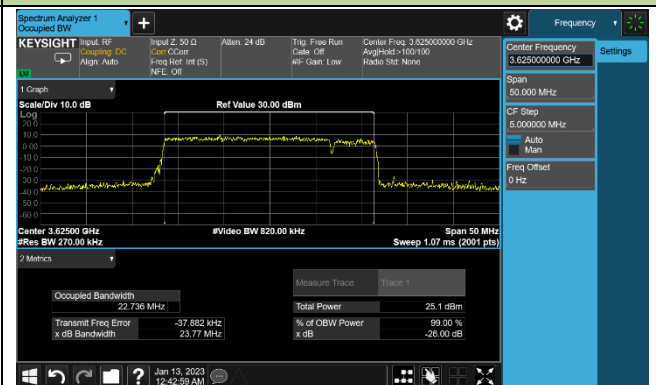


99% Bandwidth - 64QAM

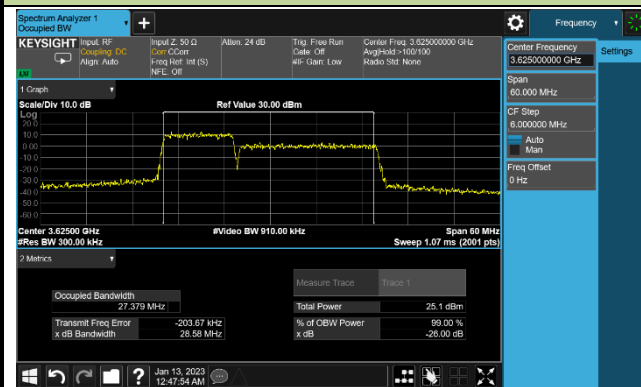
5+20MHz Channel Bandwidth



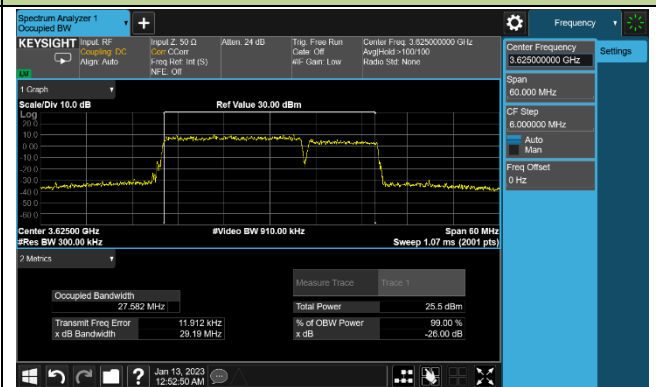
20+5MHz Channel Bandwidth



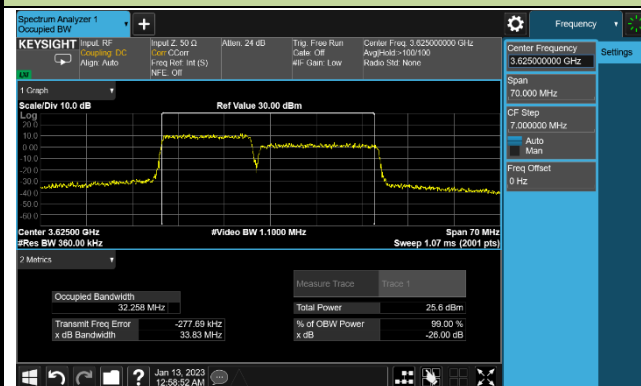
10+20MHz Channel Bandwidth



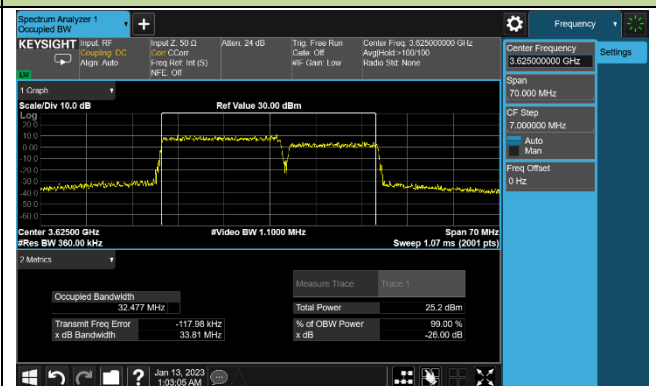
20+10MHz Channel Bandwidth



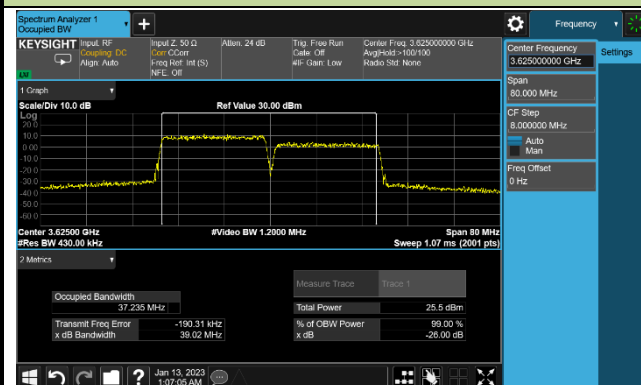
15+20MHz Channel Bandwidth



20+15MHz Channel Bandwidth

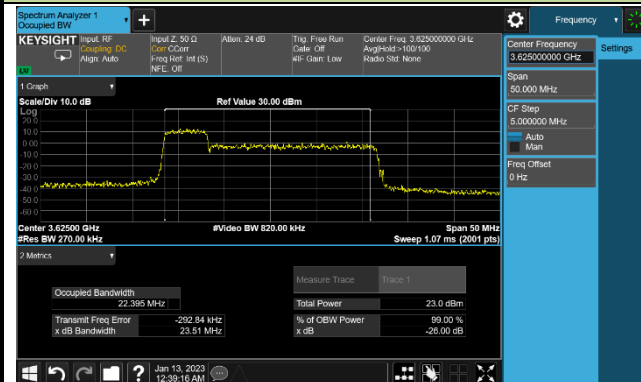


20+20MHz Channel Bandwidth

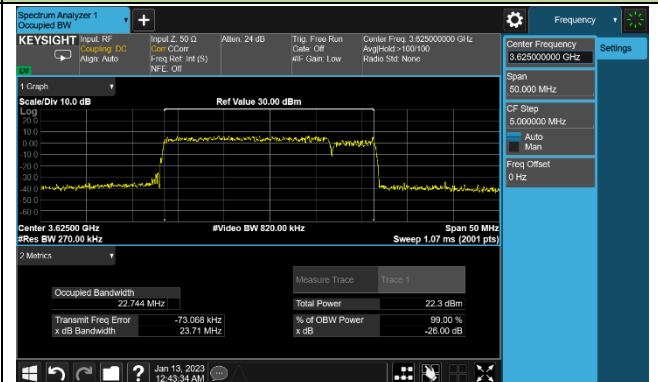


99% Bandwidth - 256QAM

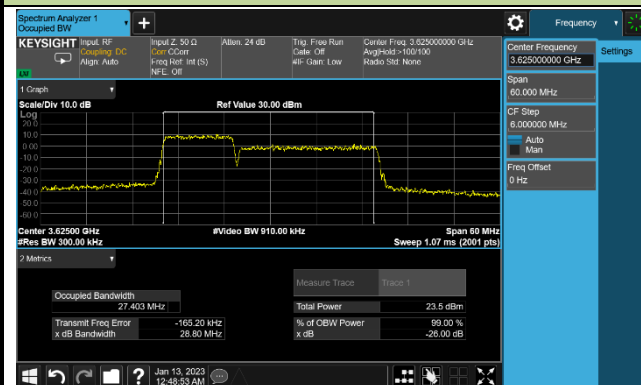
5+20MHz Channel Bandwidth



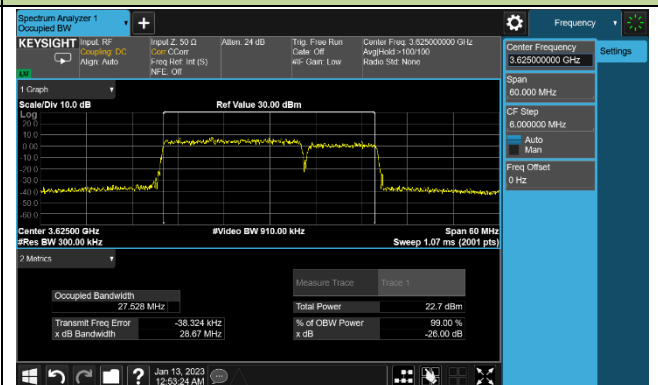
20+5MHz Channel Bandwidth



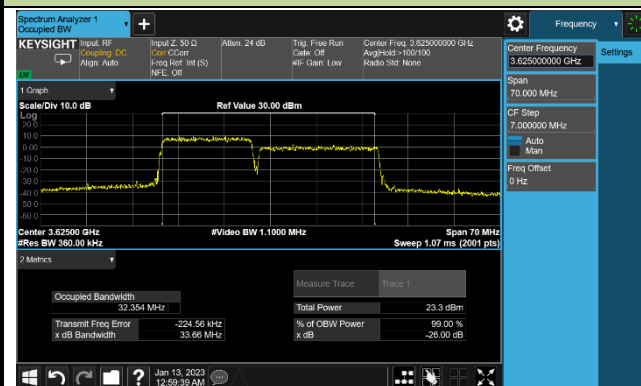
10+20MHz Channel Bandwidth



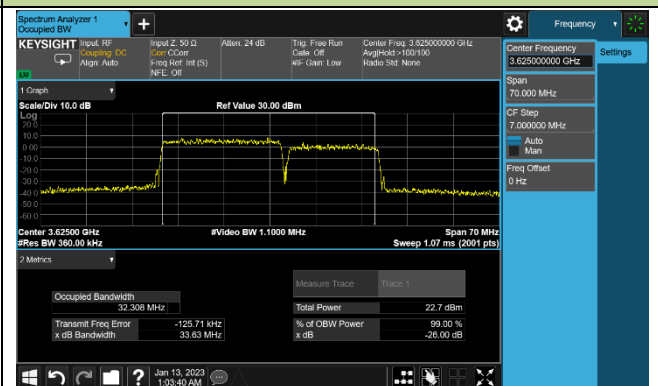
20+10MHz Channel Bandwidth



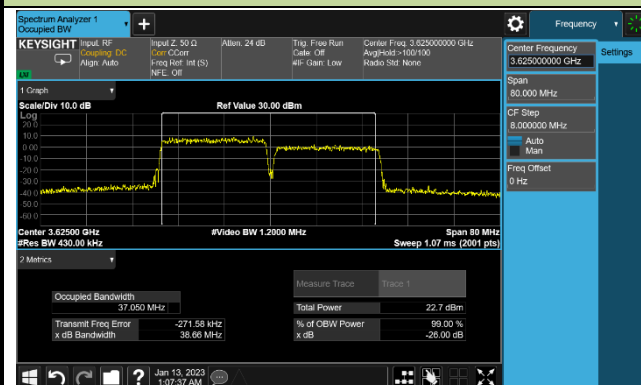
15+20MHz Channel Bandwidth



20+15MHz Channel Bandwidth



20+20MHz Channel Bandwidth



A.2 Frequency Stability Test Result

Test Site	SIP-TR1	Test Engineer	Allen Zou
Test Date	2023-02-03	Test Band	Band 48

Power (Vdc)	Temp. (°C)	Frequency Tolerance (ppm)
3.8	- 30	-0.0011
	- 20	0.0002
	- 10	-0.0004
	0	-0.0007
	+ 10	0.0002
	+ 20 (Ref)	0.0000
	+ 30	0.0001
	+ 40	0.0001
	+ 50	-0.0007
4.4	+ 20	-0.0006
3.3	+ 20	0.0004

A.3 Equivalent Isotropically Radiated Power Test Result

Test Site	SIP-SR1	Test Engineer	Allen Zou
Test Date	2023-01-17 ~ 2023-02-13	Test Band	Band 48

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
QPSK						
3552.50	5	1	0	20.00	20.60	<23.00
3625.00				19.57	20.17	<23.00
3697.50				19.62	20.22	<23.00
3555.00	5	1	12	20.51	21.11	<23.00
3625.00				19.29	19.89	<23.00
3695.00				20.01	20.61	<23.00
3557.50	5	1	24	20.42	21.02	<23.00
3625.00				19.48	20.08	<23.00
3692.50				19.97	20.57	<23.00
3560.00	5	25	0	19.10	19.70	<23.00
3625.00				18.70	19.30	<23.00
3690.00				18.63	19.23	<23.00
3552.50	10	1	0	20.97	21.57	<23.00
3625.00				19.78	20.38	<23.00
3697.50				19.78	20.38	<23.00
3555.00	10	1	24	20.40	21.00	<23.00
3625.00				20.06	20.66	<23.00
3695.00				19.69	20.29	<23.00
3557.50	10	1	49	19.97	20.57	<23.00
3625.00				19.75	20.35	<23.00
3692.50				19.17	19.77	<23.00
3560.00	10	50	0	19.28	19.88	<23.00
3625.00				18.91	19.51	<23.00
3690.00				18.60	19.20	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)						

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
QPSK						
3552.50	15	1	0	20.22	20.82	<23.00
3625.00				19.45	20.05	<23.00
3697.50				19.69	20.29	<23.00
3555.00	15	1	37	19.85	20.45	<23.00
3625.00				19.44	20.04	<23.00
3695.00				19.34	19.94	<23.00
3557.50	15	1	74	20.19	20.79	<23.00
3625.00				19.57	20.17	<23.00
3692.50				19.65	20.25	<23.00
3560.00	15	75	0	17.92	18.52	<23.00
3625.00				17.37	17.97	<23.00
3690.00				17.11	17.71	<23.00
3552.50	20	1	0	19.99	20.59	<23.00
3625.00				19.48	20.08	<23.00
3697.50				19.38	19.98	<23.00
3555.00	20	1	49	20.24	20.84	<23.00
3625.00				19.57	20.17	<23.00
3695.00				19.49	20.09	<23.00
3557.50	20	1	99	20.30	20.90	<23.00
3625.00				20.10	20.70	<23.00
3692.50				20.06	20.66	<23.00
3560.00	20	100	0	16.65	17.25	<23.00
3625.00				16.36	16.96	<23.00
3690.00				15.97	16.57	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)						

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
16QAM						
3552.50	5	1	0	19.41	20.01	<23.00
3625.00				18.34	18.94	<23.00
3697.50				18.76	19.36	<23.00
3555.00	5	1	12	19.60	20.20	<23.00
3625.00				19.57	20.17	<23.00
3695.00				19.13	19.73	<23.00
3557.50	5	1	24	18.63	19.23	<23.00
3625.00				19.01	19.61	<23.00
3692.50				19.37	19.97	<23.00
3560.00	5	25	0	18.37	18.97	<23.00
3625.00				17.79	18.39	<23.00
3690.00				17.48	18.08	<23.00
3552.50	10	1	0	19.28	19.88	<23.00
3625.00				18.89	19.49	<23.00
3697.50				18.82	19.42	<23.00
3555.00	10	1	24	19.18	19.78	<23.00
3625.00				19.10	19.70	<23.00
3695.00				18.94	19.54	<23.00
3557.50	10	1	49	19.20	19.80	<23.00
3625.00				19.14	19.74	<23.00
3692.50				18.23	18.83	<23.00
3560.00	10	50	0	18.28	18.88	<23.00
3625.00				17.98	18.58	<23.00
3690.00				17.67	18.27	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)						

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
16QAM						
3552.50	15	1	0	19.10	19.70	<23.00
3625.00				18.03	18.63	<23.00
3697.50				18.97	19.57	<23.00
3555.00	15	1	37	19.25	19.85	<23.00
3625.00				18.35	18.95	<23.00
3695.00				18.45	19.05	<23.00
3557.50	15	1	74	19.18	19.78	<23.00
3625.00				18.75	19.35	<23.00
3692.50				19.00	19.60	<23.00
3560.00	15	75	0	16.82	17.42	<23.00
3625.00				16.34	16.94	<23.00
3690.00				16.05	16.65	<23.00
3552.50	20	1	0	18.81	19.41	<23.00
3625.00				18.86	19.46	<23.00
3697.50				18.82	19.42	<23.00
3555.00	20	1	49	19.23	19.83	<23.00
3625.00				18.60	19.20	<23.00
3695.00				18.50	19.10	<23.00
3557.50	20	1	99	19.25	19.85	<23.00
3625.00				19.09	19.69	<23.00
3692.50				18.92	19.52	<23.00
3560.00	20	100	0	15.66	16.26	<23.00
3625.00				15.32	15.92	<23.00
3690.00				15.05	15.65	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)						

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
64QAM						
3552.50	5	1	0	18.30	18.90	<23.00
3625.00				17.94	18.54	<23.00
3697.50				17.64	18.24	<23.00
3555.00	5	1	12	18.90	19.50	<23.00
3625.00				18.66	19.26	<23.00
3695.00				17.57	18.17	<23.00
3557.50	5	1	24	19.51	20.11	<23.00
3625.00				18.44	19.04	<23.00
3692.50				18.03	18.63	<23.00
3560.00	5	25	0	17.23	17.83	<23.00
3625.00				16.86	17.46	<23.00
3690.00				16.51	17.11	<23.00
3552.50	10	1	0	17.72	18.32	<23.00
3625.00				18.43	19.03	<23.00
3697.50				17.61	18.21	<23.00
3555.00	10	1	24	17.86	18.46	<23.00
3625.00				18.01	18.61	<23.00
3695.00				18.27	18.87	<23.00
3557.50	10	1	49	18.18	18.78	<23.00
3625.00				17.52	18.12	<23.00
3692.50				17.25	17.85	<23.00
3560.00	10	50	0	17.28	17.88	<23.00
3625.00				16.88	17.48	<23.00
3690.00				16.68	17.28	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)						

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
64QAM						
3552.50	15	1	0	17.57	18.17	<23.00
3625.00				17.59	18.19	<23.00
3697.50				16.80	17.40	<23.00
3555.00	15	1	37	18.07	18.67	<23.00
3625.00				17.71	18.31	<23.00
3695.00				17.55	18.15	<23.00
3557.50	15	1	74	18.13	18.73	<23.00
3625.00				17.92	18.52	<23.00
3692.50				17.76	18.36	<23.00
3560.00	15	75	0	15.91	16.51	<23.00
3625.00				15.55	16.15	<23.00
3690.00				15.10	15.70	<23.00
3552.50	20	1	0	17.82	18.42	<23.00
3625.00				17.01	17.61	<23.00
3697.50				17.84	18.44	<23.00
3555.00	20	1	49	18.26	18.86	<23.00
3625.00				18.03	18.63	<23.00
3695.00				17.98	18.58	<23.00
3557.50	20	1	99	18.27	18.87	<23.00
3625.00				18.21	18.81	<23.00
3692.50				18.00	18.60	<23.00
3560.00	20	100	0	14.68	15.28	<23.00
3625.00				14.34	14.94	<23.00
3690.00				17.57	18.17	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)						

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
256QAM						
3552.50	5	1	0	14.95	15.55	<23.00
3625.00				15.00	15.60	<23.00
3697.50				14.68	15.28	<23.00
3555.00	5	1	12	14.89	15.49	<23.00
3625.00				14.80	15.40	<23.00
3695.00				15.21	15.81	<23.00
3557.50	5	1	24	16.19	16.79	<23.00
3625.00				15.49	16.09	<23.00
3692.50				15.14	15.74	<23.00
3560.00	5	25	0	15.17	15.77	<23.00
3625.00				14.74	15.34	<23.00
3690.00				14.51	15.11	<23.00
3552.50	10	1	0	14.95	15.55	<23.00
3625.00				14.68	15.28	<23.00
3697.50				14.79	15.39	<23.00
3555.00	10	1	24	15.20	15.80	<23.00
3625.00				15.07	15.67	<23.00
3695.00				15.15	15.75	<23.00
3557.50	10	1	49	15.69	16.29	<23.00
3625.00				14.85	15.45	<23.00
3692.50				14.69	15.29	<23.00
3560.00	10	50	0	15.29	15.89	<23.00
3625.00				14.92	15.52	<23.00
3690.00				14.64	15.24	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)						

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
256QAM						
3552.50	15	1	0	14.80	15.40	<23.00
3625.00				14.49	15.09	<23.00
3697.50				14.03	14.63	<23.00
3555.00	15	1	37	14.80	15.40	<23.00
3625.00				14.56	15.16	<23.00
3695.00				14.63	15.23	<23.00
3557.50	15	1	74	15.10	15.70	<23.00
3625.00				14.93	15.53	<23.00
3692.50				14.94	15.54	<23.00
3560.00	15	75	0	13.85	14.45	<23.00
3625.00				13.43	14.03	<23.00
3690.00				13.02	13.62	<23.00
3552.50	20	1	0	14.88	15.48	<23.00
3625.00				14.65	15.25	<23.00
3697.50				13.96	14.56	<23.00
3555.00	20	1	49	14.87	15.47	<23.00
3625.00				15.06	15.66	<23.00
3695.00				14.75	15.35	<23.00
3557.50	20	1	99	15.39	15.99	<23.00
3625.00				15.29	15.89	<23.00
3692.50				15.06	15.66	<23.00
3560.00	20	100	0	12.67	13.27	<23.00
3625.00				12.32	12.92	<23.00
3690.00				12.05	12.65	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)						

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
3552.50	5	1	0	19.84	20.44	N/A
3625.00				19.60	20.20	N/A
3697.50				19.38	19.98	N/A
3555.00	5	1	12	20.04	20.64	N/A
3625.00				19.70	20.30	N/A
3695.00				19.45	20.05	N/A
3557.50	5	1	24	19.94	20.54	N/A
3625.00				19.42	20.02	N/A
3692.50				19.34	19.94	N/A
3560.00	5	25	0	18.88	19.48	N/A
3625.00				18.50	19.10	N/A
3690.00				18.24	18.84	N/A
3552.50	10	1	0	19.74	20.34	N/A
3625.00				19.49	20.09	N/A
3697.50				19.33	19.93	N/A
3555.00	10	1	24	19.93	20.53	N/A
3625.00				19.57	20.17	N/A
3695.00				19.41	20.01	N/A
3557.50	10	1	49	19.87	20.47	N/A
3625.00				19.56	20.16	N/A
3692.50				19.43	20.03	N/A
3560.00	10	50	0	18.91	19.51	N/A
3625.00				18.45	19.05	N/A
3690.00				18.26	18.86	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)						

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK						
3552.50	15	1	0	19.68	20.28	N/A
3625.00				19.41	20.01	N/A
3697.50				19.26	19.86	N/A
3555.00	15	1	37	19.68	20.28	N/A
3625.00				19.34	19.94	N/A
3695.00				19.33	19.93	N/A
3557.50	15	1	74	19.66	20.26	N/A
3625.00				19.37	19.97	N/A
3692.50				19.26	19.86	N/A
3560.00	15	75	0	18.83	19.43	N/A
3625.00				18.38	18.98	N/A
3690.00				18.10	18.70	N/A
3552.50	20	1	0	19.66	20.26	N/A
3625.00				19.40	20.00	N/A
3697.50				19.37	19.97	N/A
3555.00	20	1	49	19.69	20.29	N/A
3625.00				19.43	20.03	N/A
3695.00				19.26	19.86	N/A
3557.50	20	1	99	19.64	20.24	N/A
3625.00				19.44	20.04	N/A
3692.50				19.29	19.89	N/A
3560.00	20	100	0	18.81	19.41	N/A
3625.00				18.39	18.99	N/A
3690.00				18.12	18.72	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)						

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
16QAM						
3552.50	5	1	0	19.01	19.61	N/A
3625.00				18.89	19.49	N/A
3697.50				18.46	19.06	N/A
3555.00	5	1	12	19.20	19.80	N/A
3625.00				18.90	19.50	N/A
3695.00				18.61	19.21	N/A
3557.50	5	1	24	19.18	19.78	N/A
3625.00				18.54	19.14	N/A
3692.50				18.65	19.25	N/A
3560.00	5	25	0	17.88	18.48	N/A
3625.00				17.51	18.11	N/A
3690.00				17.26	17.86	N/A
3552.50	10	1	0	18.88	19.48	N/A
3625.00				18.72	19.32	N/A
3697.50				18.58	19.18	N/A
3555.00	10	1	24	19.04	19.64	N/A
3625.00				18.67	19.27	N/A
3695.00				18.57	19.17	N/A
3557.50	10	1	49	19.05	19.65	N/A
3625.00				18.79	19.39	N/A
3692.50				18.53	19.13	N/A
3560.00	10	50	0	17.90	18.50	N/A
3625.00				17.48	18.08	N/A
3690.00				17.26	17.86	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)						

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
16QAM						
3552.50	15	1	0	18.81	19.41	N/A
3625.00				18.45	19.05	N/A
3697.50				18.43	19.03	N/A
3555.00	15	1	37	18.80	19.40	N/A
3625.00				18.43	19.03	N/A
3695.00				18.51	19.11	N/A
3557.50	15	1	74	18.69	19.29	N/A
3625.00				18.57	19.17	N/A
3692.50				18.42	19.02	N/A
3560.00	15	75	0	17.80	18.40	N/A
3625.00				17.39	17.99	N/A
3690.00				17.15	17.75	N/A
3552.50	20	1	0	18.66	19.26	N/A
3625.00				18.62	19.22	N/A
3697.50				18.40	19.00	N/A
3555.00	20	1	49	18.42	19.02	N/A
3625.00				18.43	19.03	N/A
3695.00				18.54	19.14	N/A
3557.50	20	1	99	18.86	19.46	N/A
3625.00				18.61	19.21	N/A
3692.50				18.29	18.89	N/A
3560.00	20	100	0	17.81	18.41	N/A
3625.00				17.42	18.02	N/A
3690.00				17.09	17.69	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)						

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
64QAM						
3552.50	5	1	0	18.06	18.66	N/A
3625.00				17.84	18.44	N/A
3697.50				17.55	18.15	N/A
3555.00	5	1	12	18.23	18.83	N/A
3625.00				17.76	18.36	N/A
3695.00				17.58	18.18	N/A
3557.50	5	1	24	18.15	18.75	N/A
3625.00				17.60	18.20	N/A
3692.50				17.56	18.16	N/A
3560.00	5	25	0	16.82	17.42	N/A
3625.00				16.49	17.09	N/A
3690.00				16.20	16.80	N/A
3552.50	10	1	0	17.90	18.50	N/A
3625.00				17.73	18.33	N/A
3697.50				17.68	18.28	N/A
3555.00	10	1	24	18.17	18.77	N/A
3625.00				17.72	18.32	N/A
3695.00				17.70	18.30	N/A
3557.50	10	1	49	18.14	18.74	N/A
3625.00				17.86	18.46	N/A
3692.50				17.46	18.06	N/A
3560.00	10	50	0	16.92	17.52	N/A
3625.00				16.51	17.11	N/A
3690.00				16.31	16.91	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)						

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
64QAM						
3552.50	15	1	0	17.79	18.39	N/A
3625.00				17.58	18.18	N/A
3697.50				17.57	18.17	N/A
3555.00	15	1	37	17.95	18.55	N/A
3625.00				17.54	18.14	N/A
3695.00				17.51	18.11	N/A
3557.50	15	1	74	17.90	18.50	N/A
3625.00				17.63	18.23	N/A
3692.50				17.38	17.98	N/A
3560.00	15	75	0	16.82	17.42	N/A
3625.00				16.39	16.99	N/A
3690.00				16.13	16.73	N/A
3552.50	20	1	0	17.82	18.42	N/A
3625.00				17.45	18.05	N/A
3697.50				17.56	18.16	N/A
3555.00	20	1	49	17.78	18.38	N/A
3625.00				17.46	18.06	N/A
3695.00				17.47	18.07	N/A
3557.50	20	1	99	17.67	18.27	N/A
3625.00				17.64	18.24	N/A
3692.50				17.31	17.91	N/A
3560.00	20	100	0	16.82	17.42	N/A
3625.00				16.38	16.98	N/A
3690.00				16.11	16.71	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)						

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
256QAM						
3552.50	5	1	0	14.97	15.57	N/A
3625.00				14.75	15.35	N/A
3697.50				14.53	15.13	N/A
3555.00	5	1	12	15.16	15.76	N/A
3625.00				14.80	15.40	N/A
3695.00				14.65	15.25	N/A
3557.50	5	1	24	15.07	15.67	N/A
3625.00				14.62	15.22	N/A
3692.50				14.54	15.14	N/A
3560.00	5	25	0	14.88	15.48	N/A
3625.00				14.47	15.07	N/A
3690.00				14.18	14.78	N/A
3552.50	10	1	0	14.76	15.36	N/A
3625.00				14.60	15.20	N/A
3697.50				14.58	15.18	N/A
3555.00	10	1	24	14.88	15.48	N/A
3625.00				14.78	15.38	N/A
3695.00				14.43	15.03	N/A
3557.50	10	1	49	14.98	15.58	N/A
3625.00				14.62	15.22	N/A
3692.50				14.55	15.15	N/A
3560.00	10	50	0	14.87	15.47	N/A
3625.00				14.46	15.06	N/A
3690.00				14.28	14.88	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)						

Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
256QAM						
3552.50	15	1	0	14.76	15.36	N/A
3625.00				14.60	15.20	N/A
3697.50				14.36	14.96	N/A
3555.00	15	1	37	14.72	15.32	N/A
3625.00				14.39	14.99	N/A
3695.00				14.42	15.02	N/A
3557.50	15	1	74	14.80	15.40	N/A
3625.00				14.65	15.25	N/A
3692.50				14.32	14.92	N/A
3560.00	15	75	0	14.81	15.41	N/A
3625.00				14.38	14.98	N/A
3690.00				14.09	14.69	N/A
3552.50	20	1	0	14.82	15.42	N/A
3625.00				14.57	15.17	N/A
3697.50				14.28	14.88	N/A
3555.00	20	1	49	14.89	15.49	N/A
3625.00				14.44	15.04	N/A
3695.00				14.25	14.85	N/A
3557.50	20	1	99	14.89	15.49	N/A
3625.00				14.51	15.11	N/A
3692.50				14.53	15.13	N/A
3560.00	20	100	0	14.82	15.42	N/A
3625.00				14.40	15.00	N/A
3690.00				14.10	14.70	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)						

Test Site	SIP-SR1	Test Engineer	Allen Zou
Test Date	2023-01-17	Test Band	Intra-Band CA_48C

Frequency (MHz)		Channel Bandwidth	PCC RB	SCC RB	Output Power	EIRP	Limit
PCC	SCC	(MHz)			(dBm/10MHz)	(dBm/ 10MHz)	(dBm/ 10MHz)
QPSK							
3553.3	3565.0	5+20	P_1@0	S_0@0	20.06	20.66	<23.00
3615.8	3627.5				19.23	19.83	<23.00
3678.3	3690.0				19.15	19.75	<23.00
3553.3	3565.0		P_1@49	S_0@0	20.20	20.80	<23.00
3615.8	3627.5				19.24	19.84	<23.00
3678.3	3690.0				19.23	19.83	<23.00
3553.3	3565.0		P_1@99	S_0@0	20.01	20.61	<23.00
3615.8	3627.5				19.12	19.72	<23.00
3678.3	3690.0				19.36	19.96	<23.00
3553.3	3565.0		P_100@	S_25@0	18.34	18.94	<23.00
3615.8	3627.5				16.61	17.21	<23.00
3678.3	3690.0				17.31	17.91	<23.00
3560.0	3571.7	20+5	P_1@0	S_0@0	19.09	19.69	<23.00
3622.5	3634.2				18.38	18.98	<23.00
3685.0	3696.7				18.66	19.26	<23.00
3560.0	3571.7		P_1@13	S_0@0	19.28	19.88	<23.00
3622.5	3634.2				18.72	19.32	<23.00
3685.0	3696.7				18.72	19.32	<23.00
3560.0	3571.7		P_1@24	S_0@0	19.12	19.72	<23.00
3622.5	3634.2				18.54	19.14	<23.00
3685.0	3696.7				18.35	18.95	<23.00
3560.0	3571.7		P_25@0	S_100@0	13.89	14.49	<23.00
3622.5	3634.2				13.69	14.29	<23.00
3685.0	3696.7				14.00	14.60	<23.00

Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
PCC	SCC						
QPSK							
3555.5	3569.9	10+20	P_1@0	S_0@0	19.52	20.12	<23.00
3615.6	3630.0				19.25	19.85	<23.00
3675.6	3690.0				18.98	19.58	<23.00
3555.5	3569.9		P_1@25	S_0@0	19.81	20.41	<23.00
3615.6	3630.0				19.24	19.84	<23.00
3675.6	3690.0				18.66	19.26	<23.00
3555.5	3569.9		P_1@49	S_0@0	19.85	20.45	<23.00
3615.6	3630.0				19.11	19.71	<23.00
3675.6	3690.0				18.27	18.87	<23.00
3555.5	3569.9		P_50@0	S_100@0	13.52	14.12	<23.00
3615.6	3630.0				17.34	17.94	<23.00
3675.6	3690.0				17.12	17.72	<23.00
3560.0	3574.4	20+10	P_1@0	S_0@0	19.87	20.47	<23.00
3620.1	3634.5				18.83	19.43	<23.00
3680.1	3694.5				18.85	19.45	<23.00
3560.0	3574.4		P_1@49	S_0@0	19.83	20.43	<23.00
3620.1	3634.5				19.37	19.97	<23.00
3680.1	3694.5				18.67	19.27	<23.00
3560.0	3574.4		P_1@99	S_0@0	19.62	20.22	<23.00
3620.1	3634.5				19.01	19.61	<23.00
3680.1	3694.5				18.45	19.05	<23.00
3560.0	3574.4		P_100@0	S_50@0	15.36	15.96	<23.00
3620.1	3634.5				14.56	15.16	<23.00
3680.1	3694.5				14.35	14.95	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
PCC	SCC						
QPSK							
3557.8	3574.9	15+20	P_1@0	S_0@0	19.25	19.85	<23.00
3615.3	3632.4				19.00	19.60	<23.00
3672.9	3690.0				18.75	19.35	<23.00
3557.8	3574.9		P_1@38	S_0@0	19.04	19.64	<23.00
3615.3	3632.4				18.78	19.38	<23.00
3672.9	3690.0				18.89	19.49	<23.00
3557.8	3574.9		P_1@74	S_0@0	18.91	19.51	<23.00
3615.3	3632.4				18.78	19.38	<23.00
3672.9	3690.0				18.74	19.34	<23.00
3557.8	3574.9		P_75@0	S_100@0	12.17	12.77	<23.00
3615.3	3632.4				15.71	16.31	<23.00
3672.9	3690.0				15.48	16.08	<23.00
3560.0	3577.1	20+15	P_1@0	S_0@0	19.48	20.08	<23.00
3617.6	3634.7				19.32	19.92	<23.00
3675.1	3692.2				19.01	19.61	<23.00
3560.0	3577.1		P_1@49	S_0@0	19.28	19.88	<23.00
3617.6	3634.7				19.04	19.64	<23.00
3675.1	3692.2				18.57	19.17	<23.00
3560.0	3577.1		P_1@99	S_0@0	19.53	20.13	<23.00
3617.6	3634.7				19.06	19.66	<23.00
3675.1	3692.2				18.85	19.45	<23.00
3560.0	3577.1		P_100@0	S_75@0	10.99	11.59	<23.00
3617.6	3634.7				14.53	15.13	<23.00
3675.1	3692.2				14.32	14.92	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
PCC	SCC						
QPSK							
3560.0	3579.8	20+20	P_1@0	S_0@0	19.26	19.86	<23.00
3615.1	3634.9				19.13	19.73	<23.00
3670.2	3690.0				18.85	19.45	<23.00
3560.0	3579.8		P_1@49	S_0@0	19.69	20.29	<23.00
3615.1	3634.9				19.37	19.97	<23.00
3670.2	3690.0				18.95	19.55	<23.00
3560.0	3579.8		P_1@99	S_0@0	19.35	19.95	<23.00
3615.1	3634.9				19.01	19.61	<23.00
3670.2	3690.0				18.85	19.45	<23.00
3560.0	3579.8		P_100@0	S_100@0	10.92	11.52	<23.00
3615.1	3634.9				14.79	15.39	<23.00
3670.2	3690.0				14.29	14.29	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
PCC	SCC						
16QAM							
3553.3	3565.0	5+20	P_1@0	S_0@0	19.08	19.68	<23.00
3615.8	3627.5				18.48	19.08	<23.00
3678.3	3690.0				18.50	19.10	<23.00
3553.3	3565.0		P_1@49	S_0@0	18.90	19.50	<23.00
3615.8	3627.5				18.55	19.15	<23.00
3678.3	3690.0				18.69	19.29	<23.00
3553.3	3565.0		P_1@99	S_0@0	19.09	19.69	<23.00
3615.8	3627.5				18.23	18.83	<23.00
3678.3	3690.0				18.35	18.95	<23.00
3553.3	3565.0		P_100@	S_25@0	17.39	17.99	<23.00
3615.8	3627.5				15.61	16.21	<23.00
3678.3	3690.0				16.25	16.85	<23.00
3560.0	3571.7	20+5	P_1@0	S_0@0	18.33	18.93	<23.00
3622.5	3634.2				17.39	17.99	<23.00
3685.0	3696.7				17.75	18.35	<23.00
3560.0	3571.7		P_1@13	S_0@0	18.63	19.23	<23.00
3622.5	3634.2				18.07	18.67	<23.00
3685.0	3696.7				18.20	18.80	<23.00
3560.0	3571.7		P_1@24	S_0@0	18.55	19.15	<23.00
3622.5	3634.2				18.37	18.97	<23.00
3685.0	3696.7				18.19	18.79	<23.00
3560.0	3571.7		P_25@0	S_100@0	13.02	13.62	<23.00
3622.5	3634.2				12.70	13.30	<23.00
3685.0	3696.7				13.05	13.65	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
PCC	SCC						
16QAM							
3555.5	3569.9	10+20	P_1@0	S_0@0	18.21	18.81	<23.00
3615.6	3630.0				18.21	18.81	<23.00
3675.6	3690.0				18.34	18.94	<23.00
3555.5	3569.9		P_1@25	S_0@0	18.85	19.45	<23.00
3615.6	3630.0				18.30	18.90	<23.00
3675.6	3690.0				18.02	18.62	<23.00
3555.5	3569.9		P_1@49	S_0@0	18.52	19.12	<23.00
3615.6	3630.0				18.10	18.70	<23.00
3675.6	3690.0				17.82	18.42	<23.00
3555.5	3569.9		P_50@0	S_100@0	12.51	13.11	<23.00
3615.6	3630.0				16.37	16.97	<23.00
3675.6	3690.0				16.05	16.65	<23.00
3560.0	3574.4	20+10	P_1@0	S_0@0	19.24	19.84	<23.00
3620.1	3634.5				18.10	18.70	<23.00
3680.1	3694.5				17.69	18.29	<23.00
3560.0	3574.4		P_1@49	S_0@0	19.19	19.79	<23.00
3620.1	3634.5				17.73	18.33	<23.00
3680.1	3694.5				17.94	18.54	<23.00
3560.0	3574.4		P_1@99	S_0@0	19.22	19.82	<23.00
3620.1	3634.5				18.22	18.82	<23.00
3680.1	3694.5				17.49	18.09	<23.00
3560.0	3574.4		P_100@0	S_50@0	14.28	14.88	<23.00
3620.1	3634.5				13.63	14.23	<23.00
3680.1	3694.5				13.44	14.04	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
PCC	SCC						
16QAM							
3557.8	3574.9	15+20	P_1@0	S_0@0	18.61	19.21	<23.00
3615.3	3632.4				18.42	19.02	<23.00
3672.9	3690.0				17.57	18.17	<23.00
3557.8	3574.9		P_1@38	S_0@0	18.46	19.06	<23.00
3615.3	3632.4				17.19	17.79	<23.00
3672.9	3690.0				17.86	18.46	<23.00
3557.8	3574.9		P_1@74	S_0@0	18.47	19.07	<23.00
3615.3	3632.4				18.17	18.77	<23.00
3672.9	3690.0				17.97	18.57	<23.00
3557.8	3574.9		P_75@0	S_100@0	11.15	11.75	<23.00
3615.3	3632.4				14.80	15.40	<23.00
3672.9	3690.0				14.54	15.14	<23.00
3560.0	3577.1	20+15	P_1@0	S_0@0	18.65	19.25	<23.00
3617.6	3634.7				18.03	18.63	<23.00
3675.1	3692.2				17.76	18.36	<23.00
3560.0	3577.1		P_1@49	S_0@0	19.07	19.67	<23.00
3617.6	3634.7				18.34	18.94	<23.00
3675.1	3692.2				18.23	18.83	<23.00
3560.0	3577.1		P_1@99	S_0@0	18.61	19.21	<23.00
3617.6	3634.7				18.32	18.92	<23.00
3675.1	3692.2				17.60	18.20	<23.00
3560.0	3577.1		P_100@0	S_75@0	9.91	10.51	<23.00
3617.6	3634.7				13.60	14.20	<23.00
3675.1	3692.2				13.38	13.98	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
PCC	SCC						
16QAM							
3560.0	3579.8	20+20	P_1@0	S_0@0	18.53	19.13	<23.00
3615.1	3634.9				18.09	18.69	<23.00
3670.2	3690.0				18.04	18.64	<23.00
3560.0	3579.8		P_1@49	S_0@0	18.86	19.46	<23.00
3615.1	3634.9				18.62	19.22	<23.00
3670.2	3690.0				17.77	18.37	<23.00
3560.0	3579.8		P_1@99	S_0@0	19.00	19.60	<23.00
3615.1	3634.9				19.05	19.65	<23.00
3670.2	3690.0				18.01	18.61	<23.00
3560.0	3579.8		P_100@0	S_100@0	9.84	10.44	<23.00
3615.1	3634.9				13.66	14.26	<23.00
3670.2	3690.0				13.23	13.23	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
PCC	SCC						
64QAM							
3553.3	3565.0	5+20	P_1@0	S_0@0	18.44	19.04	<23.00
3615.8	3627.5				17.28	17.88	<23.00
3678.3	3690.0				17.62	18.22	<23.00
3553.3	3565.0		P_1@49	S_0@0	18.18	18.78	<23.00
3615.8	3627.5				17.36	17.96	<23.00
3678.3	3690.0				17.78	18.38	<23.00
3553.3	3565.0		P_1@99	S_0@0	17.74	18.34	<23.00
3615.8	3627.5				17.56	18.16	<23.00
3678.3	3690.0				17.52	18.12	<23.00
3553.3	3565.0		P_100@	S_25@0	17.31	17.91	<23.00
3615.8	3627.5				15.89	16.49	<23.00
3678.3	3690.0				16.40	17.00	<23.00
3560.0	3571.7	20+5	P_1@0	S_0@0	16.80	17.40	<23.00
3622.5	3634.2				16.54	17.14	<23.00
3685.0	3696.7				16.86	17.46	<23.00
3560.0	3571.7		P_1@13	S_0@0	17.40	18.00	<23.00
3622.5	3634.2				16.93	17.53	<23.00
3685.0	3696.7				16.66	17.26	<23.00
3560.0	3571.7		P_1@24	S_0@0	17.32	17.92	<23.00
3622.5	3634.2				16.55	17.15	<23.00
3685.0	3696.7				16.81	17.41	<23.00
3560.0	3571.7		P_25@0	S_100@0	13.41	14.01	<23.00
3622.5	3634.2				13.20	13.80	<23.00
3685.0	3696.7				13.08	13.68	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
PCC	SCC						
64QAM							
3555.5	3569.9	10+20	P_1@0	S_0@0	17.38	17.98	<23.00
3615.6	3630.0				17.05	17.65	<23.00
3675.6	3690.0				16.78	17.38	<23.00
3555.5	3569.9		P_1@25	S_0@0	18.04	18.64	<23.00
3615.6	3630.0				17.16	17.76	<23.00
3675.6	3690.0				16.59	17.19	<23.00
3555.5	3569.9		P_1@49	S_0@0	17.73	18.33	<23.00
3615.6	3630.0				16.89	17.49	<23.00
3675.6	3690.0				16.64	17.24	<23.00
3555.5	3569.9		P_50@0	S_100@0	12.47	13.07	<23.00
3615.6	3630.0				16.31	16.91	<23.00
3675.6	3690.0				15.87	16.47	<23.00
3560.0	3574.4	20+10	P_1@0	S_0@0	18.00	18.60	<23.00
3620.1	3634.5				17.04	17.64	<23.00
3680.1	3694.5				16.22	16.82	<23.00
3560.0	3574.4		P_1@49	S_0@0	17.62	18.22	<23.00
3620.1	3634.5				16.90	17.50	<23.00
3680.1	3694.5				16.73	17.33	<23.00
3560.0	3574.4		P_1@99	S_0@0	17.89	18.49	<23.00
3620.1	3634.5				16.63	17.23	<23.00
3680.1	3694.5				16.41	17.01	<23.00
3560.0	3574.4		P_100@0	S_50@0	14.18	14.78	<23.00
3620.1	3634.5				13.74	14.34	<23.00
3680.1	3694.5				13.52	14.12	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
PCC	SCC						
64QAM							
3557.8	3574.9	15+20	P_1@0	S_0@0	17.47	18.07	<23.00
3615.3	3632.4				16.58	17.18	<23.00
3672.9	3690.0				16.88	17.48	<23.00
3557.8	3574.9		P_1@38	S_0@0	16.95	17.55	<23.00
3615.3	3632.4				16.83	17.43	<23.00
3672.9	3690.0				16.76	17.36	<23.00
3557.8	3574.9		P_1@74	S_0@0	17.03	17.63	<23.00
3615.3	3632.4				16.62	17.22	<23.00
3672.9	3690.0				16.42	17.02	<23.00
3557.8	3574.9		P_75@0	S_100@0	11.16	11.76	<23.00
3615.3	3632.4				14.85	15.45	<23.00
3672.9	3690.0				14.57	15.17	<23.00
3560.0	3577.1	20+15	P_1@0	S_0@0	17.44	18.04	<23.00
3617.6	3634.7				17.49	18.09	<23.00
3675.1	3692.2				17.28	17.88	<23.00
3560.0	3577.1		P_1@49	S_0@0	17.76	18.36	<23.00
3617.6	3634.7				17.08	17.68	<23.00
3675.1	3692.2				17.32	17.92	<23.00
3560.0	3577.1		P_1@99	S_0@0	17.62	18.22	<23.00
3617.6	3634.7				17.11	17.71	<23.00
3675.1	3692.2				16.57	17.17	<23.00
3560.0	3577.1		P_100@0	S_75@0	9.94	10.54	<23.00
3617.6	3634.7				13.57	14.17	<23.00
3675.1	3692.2				13.38	13.98	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
PCC	SCC						
64QAM							
3560.0	3579.8	20+20	P_1@0	S_0@0	17.69	18.29	<23.00
3615.1	3634.9				17.22	17.82	<23.00
3670.2	3690.0				17.27	17.87	<23.00
3560.0	3579.8		P_1@49	S_0@0	17.39	17.99	<23.00
3615.1	3634.9				17.07	17.67	<23.00
3670.2	3690.0				16.64	17.24	<23.00
3560.0	3579.8		P_1@99	S_0@0	17.29	17.89	<23.00
3615.1	3634.9				16.97	17.57	<23.00
3670.2	3690.0				16.68	17.28	<23.00
3560.0	3579.8		P_100@0	S_100@0	9.92	10.52	<23.00
3615.1	3634.9				13.69	14.29	<23.00
3670.2	3690.0				13.34	13.34	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
PCC	SCC						
256QAM							
3553.3	3565.0	5+20	P_1@0	S_0@0	15.07	15.67	<23.00
3615.8	3627.5				13.90	14.50	<23.00
3678.3	3690.0				14.26	14.86	<23.00
3553.3	3565.0		P_1@49	S_0@0	15.36	15.96	<23.00
3615.8	3627.5				14.24	14.84	<23.00
3678.3	3690.0				14.00	14.60	<23.00
3553.3	3565.0		P_1@99	S_0@0	15.08	15.68	<23.00
3615.8	3627.5				14.41	15.01	<23.00
3678.3	3690.0				14.39	14.99	<23.00
3553.3	3565.0		P_100@	S_25@0	15.40	16.00	<23.00
3615.8	3627.5				14.74	15.34	<23.00
3678.3	3690.0				14.25	14.85	<23.00
3560.0	3571.7	20+5	P_1@0	S_0@0	14.70	15.30	<23.00
3622.5	3634.2				13.84	14.44	<23.00
3685.0	3696.7				13.84	14.44	<23.00
3560.0	3571.7		P_1@13	S_0@0	14.93	15.53	<23.00
3622.5	3634.2				13.58	14.18	<23.00
3685.0	3696.7				13.73	14.33	<23.00
3560.0	3571.7		P_1@24	S_0@0	15.12	15.72	<23.00
3622.5	3634.2				13.71	14.31	<23.00
3685.0	3696.7				13.90	14.50	<23.00
3560.0	3571.7		P_25@0	S_100@0	11.57	12.17	<23.00
3622.5	3634.2				11.12	11.72	<23.00
3685.0	3696.7				10.93	11.53	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
PCC	SCC						
256QAM							
3555.5	3569.9	10+20	P_1@0	S_0@0	14.63	15.23	<23.00
3615.6	3630.0				14.13	14.73	<23.00
3675.6	3690.0				13.90	14.50	<23.00
3555.5	3569.9		P_1@25	S_0@0	14.89	15.49	<23.00
3615.6	3630.0				13.99	14.59	<23.00
3675.6	3690.0				13.91	14.51	<23.00
3555.5	3569.9		P_1@49	S_0@0	15.03	15.63	<23.00
3615.6	3630.0				14.00	14.60	<23.00
3675.6	3690.0				13.67	14.27	<23.00
3555.5	3569.9		P_50@0	S_100@0	12.42	13.02	<23.00
3615.6	3630.0				14.45	15.05	<23.00
3675.6	3690.0				14.00	14.60	<23.00
3560.0	3574.4	20+10	P_1@0	S_0@0	14.91	15.51	<23.00
3620.1	3634.5				13.92	14.52	<23.00
3680.1	3694.5				13.70	14.30	<23.00
3560.0	3574.4		P_1@49	S_0@0	14.56	15.16	<23.00
3620.1	3634.5				13.97	14.57	<23.00
3680.1	3694.5				13.71	14.31	<23.00
3560.0	3574.4		P_1@99	S_0@0	15.38	15.98	<23.00
3620.1	3634.5				14.04	14.64	<23.00
3680.1	3694.5				13.41	14.01	<23.00
3560.0	3574.4		P_100@0	S_50@0	12.27	12.87	<23.00
3620.1	3634.5				11.61	12.21	<23.00
3680.1	3694.5				11.43	12.03	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
PCC	SCC						
256QAM							
3557.8	3574.9	15+20	P_1@0	S_0@0	13.88	14.48	<23.00
3615.3	3632.4				14.17	14.77	<23.00
3672.9	3690.0				13.87	14.47	<23.00
3557.8	3574.9		P_1@38	S_0@0	13.60	14.20	<23.00
3615.3	3632.4				13.69	14.29	<23.00
3672.9	3690.0				14.29	14.89	<23.00
3557.8	3574.9		P_1@74	S_0@0	13.73	14.33	<23.00
3615.3	3632.4				13.92	14.52	<23.00
3672.9	3690.0				14.02	14.62	<23.00
3557.8	3574.9		P_75@0	S_100@0	11.22	11.82	<23.00
3615.3	3632.4				12.77	13.37	<23.00
3672.9	3690.0				12.69	13.29	<23.00
3560.0	3577.1	20+15	P_1@0	S_0@0	14.80	15.40	<23.00
3617.6	3634.7				14.28	14.88	<23.00
3675.1	3692.2				13.87	14.47	<23.00
3560.0	3577.1		P_1@49	S_0@0	14.79	15.39	<23.00
3617.6	3634.7				14.12	14.72	<23.00
3675.1	3692.2				14.61	15.21	<23.00
3560.0	3577.1		P_1@99	S_0@0	14.45	15.05	<23.00
3617.6	3634.7				14.31	14.91	<23.00
3675.1	3692.2				14.35	14.95	<23.00
3560.0	3577.1		P_100@0	S_75@0	9.90	10.50	<23.00
3617.6	3634.7				11.62	12.22	<23.00
3675.1	3692.2				11.35	11.95	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm/10MHz)	EIRP (dBm/ 10MHz)	Limit (dBm/ 10MHz)
PCC	SCC						
256QAM							
3560.0	3579.8	20+20	P_1@0	S_0@0	14.47	15.07	<23.00
3615.1	3634.9				14.36	14.96	<23.00
3670.2	3690.0				13.92	14.52	<23.00
3560.0	3579.8		P_1@49	S_0@0	14.25	14.85	<23.00
3615.1	3634.9				14.05	14.65	<23.00
3670.2	3690.0				13.80	14.40	<23.00
3560.0	3579.8		P_1@99	S_0@0	14.34	14.94	<23.00
3615.1	3634.9				14.61	15.21	<23.00
3670.2	3690.0				13.79	14.39	<23.00
3560.0	3579.8		P_100@0	S_100@0	9.94	10.54	<23.00
3615.1	3634.9				11.85	12.45	<23.00
3670.2	3690.0				11.39	11.39	<23.00
Note: The EIRP (dBm/10MHz) = Output Power (dBm/10MHz) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
3553.3	3565.0	5+20	P_1@0	S_0@0	19.83	20.43	N/A
3615.8	3627.5				19.62	20.22	N/A
3678.3	3690.0				19.38	19.98	N/A
3553.3	3565.0		P_1@49	S_0@0	19.91	20.51	N/A
3615.8	3627.5				19.54	20.14	N/A
3678.3	3690.0				19.38	19.98	N/A
3553.3	3565.0		P_1@99	S_0@0	19.86	20.46	N/A
3615.8	3627.5				19.78	20.38	N/A
3678.3	3690.0				19.33	19.93	N/A
3553.3	3565.0		P_100@	S_25@0	17.87	18.47	N/A
3615.8	3627.5				17.53	18.13	N/A
3678.3	3690.0				17.32	17.92	N/A
3560.0	3571.7	20+5	P_1@0	S_0@0	19.65	20.25	N/A
3622.5	3634.2				19.28	19.88	N/A
3685.0	3696.7				19.29	19.89	N/A
3560.0	3571.7		P_1@13	S_0@0	19.68	20.28	N/A
3622.5	3634.2				19.48	20.08	N/A
3685.0	3696.7				19.27	19.87	N/A
3560.0	3571.7		P_1@24	S_0@0	19.67	20.27	N/A
3622.5	3634.2				19.50	20.10	N/A
3685.0	3696.7				19.25	19.85	N/A
3560.0	3571.7		P_25@0	S_100@0	18.05	18.65	N/A
3622.5	3634.2				17.82	18.42	N/A
3685.0	3696.7				17.56	18.16	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
3555.5	3569.9	10+20	P_1@0	S_0@0	19.65	20.25	N/A
3615.6	3630.0				19.41	20.01	N/A
3675.6	3690.0				19.24	19.84	N/A
3555.5	3569.9		P_1@25	S_0@0	19.76	20.36	N/A
3615.6	3630.0				19.43	20.03	N/A
3675.6	3690.0				19.18	19.78	N/A
3555.5	3569.9		P_1@49	S_0@0	19.74	20.34	N/A
3615.6	3630.0				19.46	20.06	N/A
3675.6	3690.0				19.15	19.75	N/A
3555.5	3569.9		P_50@0	S_100@0	14.09	14.69	N/A
3615.6	3630.0				17.52	18.12	N/A
3675.6	3690.0				17.34	17.94	N/A
3560.0	3574.4	20+10	P_1@0	S_0@0	19.76	20.36	N/A
3620.1	3634.5				19.54	20.14	N/A
3680.1	3694.5				19.33	19.93	N/A
3560.0	3574.4		P_1@49	S_0@0	19.78	20.38	N/A
3620.1	3634.5				19.67	20.27	N/A
3680.1	3694.5				19.33	19.93	N/A
3560.0	3574.4		P_1@99	S_0@0	19.77	20.37	N/A
3620.1	3634.5				19.60	20.20	N/A
3680.1	3694.5				19.26	19.86	N/A
3560.0	3574.4		P_100@0	S_50@0	17.94	18.54	N/A
3620.1	3634.5				17.64	18.24	N/A
3680.1	3694.5				17.44	18.04	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
3557.8	3574.9	15+20	P_1@0	S_0@0	19.72	20.32	N/A
3615.3	3632.4				19.36	19.96	N/A
3672.9	3690.0				19.24	19.84	N/A
3557.8	3574.9		P_1@38	S_0@0	19.78	20.38	N/A
3615.3	3632.4				19.45	20.05	N/A
3672.9	3690.0				19.25	19.85	N/A
3557.8	3574.9		P_1@74	S_0@0	19.73	20.33	N/A
3615.3	3632.4				19.44	20.04	N/A
3672.9	3690.0				19.17	19.77	N/A
3557.8	3574.9		P_75@0	S_100@0	14.05	14.65	N/A
3615.3	3632.4				17.53	18.13	N/A
3672.9	3690.0				17.34	17.94	N/A
3560.0	3577.1	20+15	P_1@0	S_0@0	19.84	20.44	N/A
3617.6	3634.7				19.46	20.06	N/A
3675.1	3692.2				19.48	20.08	N/A
3560.0	3577.1		P_1@49	S_0@0	19.83	20.43	N/A
3617.6	3634.7				19.59	20.19	N/A
3675.1	3692.2				19.40	20.00	N/A
3560.0	3577.1		P_1@99	S_0@0	19.82	20.42	N/A
3617.6	3634.7				19.56	20.16	N/A
3675.1	3692.2				19.38	19.98	N/A
3560.0	3577.1		P_100@0	S_75@0	14.08	14.68	N/A
3617.6	3634.7				17.55	18.15	N/A
3675.1	3692.2				17.42	18.02	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
QPSK							
3560.0	3579.8	20+20	P_1@0	S_0@0	19.75	20.35	N/A
3615.1	3634.9				19.51	20.11	N/A
3670.2	3690.0				19.44	20.04	N/A
3560.0	3579.8		P_1@49	S_0@0	19.81	20.41	N/A
3615.1	3634.9				19.51	20.11	N/A
3670.2	3690.0				19.30	19.90	N/A
3560.0	3579.8		P_1@99	S_0@0	19.86	20.46	N/A
3615.1	3634.9				19.56	20.16	N/A
3670.2	3690.0				19.34	19.94	N/A
3560.0	3579.8		P_100@0	S_100@0	14.03	14.63	N/A
3615.1	3634.9				17.55	18.15	N/A
3670.2	3690.0				17.34	17.94	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
3553.3	3565.0	5+20	P_1@0	S_0@0	18.92	19.52	N/A
3615.8	3627.5				18.62	19.22	N/A
3678.3	3690.0				18.52	19.12	N/A
3553.3	3565.0		P_1@49	S_0@0	18.92	19.52	N/A
3615.8	3627.5				18.62	19.22	N/A
3678.3	3690.0				18.49	19.09	N/A
3553.3	3565.0		P_1@99	S_0@0	18.89	19.49	N/A
3615.8	3627.5				18.73	19.33	N/A
3678.3	3690.0				18.50	19.10	N/A
3553.3	3565.0		P_100@	S_25@0	16.85	17.45	N/A
3615.8	3627.5				16.56	17.16	N/A
3678.3	3690.0				16.31	16.91	N/A
3560.0	3571.7	20+5	P_1@0	S_0@0	18.92	19.52	N/A
3622.5	3634.2				18.46	19.06	N/A
3685.0	3696.7				18.35	18.95	N/A
3560.0	3571.7		P_1@13	S_0@0	18.71	19.31	N/A
3622.5	3634.2				18.64	19.24	N/A
3685.0	3696.7				18.38	18.98	N/A
3560.0	3571.7		P_1@24	S_0@0	18.72	19.32	N/A
3622.5	3634.2				18.60	19.20	N/A
3685.0	3696.7				18.48	19.08	N/A
3560.0	3571.7		P_25@0	S_100@0	17.08	17.68	N/A
3622.5	3634.2				16.86	17.46	N/A
3685.0	3696.7				16.55	17.15	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
3555.5	3569.9	10+20	P_1@0	S_0@0	18.74	19.34	N/A
3615.6	3630.0				18.47	19.07	N/A
3675.6	3690.0				18.29	18.89	N/A
3555.5	3569.9		P_1@25	S_0@0	18.89	19.49	N/A
3615.6	3630.0				18.53	19.13	N/A
3675.6	3690.0				18.27	18.87	N/A
3555.5	3569.9		P_1@49	S_0@0	18.86	19.46	N/A
3615.6	3630.0				18.51	19.11	N/A
3675.6	3690.0				18.22	18.82	N/A
3555.5	3569.9		P_50@0	S_100@0	13.07	13.67	N/A
3615.6	3630.0				16.55	17.15	N/A
3675.6	3690.0				16.38	16.98	N/A
3560.0	3574.4	20+10	P_1@0	S_0@0	18.94	19.54	N/A
3620.1	3634.5				18.46	19.06	N/A
3680.1	3694.5				18.46	19.06	N/A
3560.0	3574.4		P_1@49	S_0@0	18.94	19.54	N/A
3620.1	3634.5				18.59	19.19	N/A
3680.1	3694.5				18.42	19.02	N/A
3560.0	3574.4		P_1@99	S_0@0	19.12	19.72	N/A
3620.1	3634.5				18.69	19.29	N/A
3680.1	3694.5				18.42	19.02	N/A
3560.0	3574.4		P_100@0	S_50@0	16.98	17.58	N/A
3620.1	3634.5				16.63	17.23	N/A
3680.1	3694.5				16.47	17.07	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
3557.8	3574.9	15+20	P_1@0	S_0@0	18.81	19.41	N/A
3615.3	3632.4				18.41	19.01	N/A
3672.9	3690.0				18.20	18.80	N/A
3557.8	3574.9		P_1@38	S_0@0	18.88	19.48	N/A
3615.3	3632.4				18.54	19.14	N/A
3672.9	3690.0				18.25	18.85	N/A
3557.8	3574.9		P_1@74	S_0@0	18.87	19.47	N/A
3615.3	3632.4				18.55	19.15	N/A
3672.9	3690.0				18.15	18.75	N/A
3557.8	3574.9		P_75@0	S_100@0	13.07	13.67	N/A
3615.3	3632.4				16.53	17.13	N/A
3672.9	3690.0				16.34	16.94	N/A
3560.0	3577.1	20+15	P_1@0	S_0@0	19.02	19.62	N/A
3617.6	3634.7				18.73	19.33	N/A
3675.1	3692.2				18.62	19.22	N/A
3560.0	3577.1		P_1@49	S_0@0	19.02	19.62	N/A
3617.6	3634.7				18.65	19.25	N/A
3675.1	3692.2				18.42	19.02	N/A
3560.0	3577.1		P_1@99	S_0@0	18.89	19.49	N/A
3617.6	3634.7				18.68	19.28	N/A
3675.1	3692.2				18.51	19.11	N/A
3560.0	3577.1		P_100@0	S_75@0	13.14	13.74	N/A
3617.6	3634.7				16.59	17.19	N/A
3675.1	3692.2				16.42	17.02	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
16QAM							
3560.0	3579.8	20+20	P_1@0	S_0@0	19.02	19.62	N/A
3615.1	3634.9				18.57	19.17	N/A
3670.2	3690.0				18.64	19.24	N/A
3560.0	3579.8		P_1@49	S_0@0	19.08	19.68	N/A
3615.1	3634.9				18.59	19.19	N/A
3670.2	3690.0				18.51	19.11	N/A
3560.0	3579.8		P_1@99	S_0@0	18.92	19.52	N/A
3615.1	3634.9				18.72	19.32	N/A
3670.2	3690.0				18.37	18.97	N/A
3560.0	3579.8		P_100@0	S_10@0	13.09	13.69	N/A
3615.1	3634.9				16.55	17.15	N/A
3670.2	3690.0				16.36	16.96	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
64QAM							
3553.3	3565.0	5+20	P_1@0	S_0@0	17.92	18.52	N/A
3615.8	3627.5				17.62	18.22	N/A
3678.3	3690.0				17.44	18.04	N/A
3553.3	3565.0		P_1@49	S_0@0	17.94	18.54	N/A
3615.8	3627.5				17.75	18.35	N/A
3678.3	3690.0				17.51	18.11	N/A
3553.3	3565.0		P_1@99	S_0@0	17.89	18.49	N/A
3615.8	3627.5				17.67	18.27	N/A
3678.3	3690.0				17.45	18.05	N/A
3553.3	3565.0		P_100@	S_25@0	16.87	17.47	N/A
3615.8	3627.5				16.60	17.20	N/A
3678.3	3690.0				16.33	16.93	N/A
3560.0	3571.7	20+5	P_1@0	S_0@0	17.84	18.44	N/A
3622.5	3634.2				17.46	18.06	N/A
3685.0	3696.7				17.28	17.88	N/A
3560.0	3571.7		P_1@13	S_0@0	17.72	18.32	N/A
3622.5	3634.2				17.55	18.15	N/A
3685.0	3696.7				17.45	18.05	N/A
3560.0	3571.7		P_1@24	S_0@0	17.65	18.25	N/A
3622.5	3634.2				17.51	18.11	N/A
3685.0	3696.7				17.49	18.09	N/A
3560.0	3571.7		P_25@0	S_100@0	17.25	17.85	N/A
3622.5	3634.2				16.87	17.47	N/A
3685.0	3696.7				16.68	17.28	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
64QAM							
3555.5	3569.9	10+20	P_1@0	S_0@0	17.86	18.46	N/A
3615.6	3630.0				17.51	18.11	N/A
3675.6	3690.0				17.37	17.97	N/A
3555.5	3569.9		P_1@25	S_0@0	17.95	18.55	N/A
3615.6	3630.0				17.52	18.12	N/A
3675.6	3690.0				17.34	17.94	N/A
3555.5	3569.9		P_1@49	S_0@0	17.84	18.44	N/A
3615.6	3630.0				17.65	18.25	N/A
3675.6	3690.0				17.35	17.95	N/A
3555.5	3569.9		P_50@0	S_100@0	13.05	13.65	N/A
3615.6	3630.0				16.56	17.16	N/A
3675.6	3690.0				16.38	16.98	N/A
3560.0	3574.4	20+10	P_1@0	S_0@0	17.93	18.53	N/A
3620.1	3634.5				17.51	18.11	N/A
3680.1	3694.5				17.41	18.01	N/A
3560.0	3574.4		P_1@49	S_0@0	18.02	18.62	N/A
3620.1	3634.5				17.58	18.18	N/A
3680.1	3694.5				17.42	18.02	N/A
3560.0	3574.4		P_1@99	S_0@0	17.98	18.58	N/A
3620.1	3634.5				17.58	18.18	N/A
3680.1	3694.5				17.32	17.92	N/A
3560.0	3574.4		P_100@0	S_50@0	16.99	17.59	N/A
3620.1	3634.5				16.68	17.28	N/A
3680.1	3694.5				16.49	17.09	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
64QAM							
3557.8	3574.9	15+20	P_1@0	S_0@0	17.82	18.42	N/A
3615.3	3632.4				17.49	18.09	N/A
3672.9	3690.0				17.38	17.98	N/A
3557.8	3574.9		P_1@38	S_0@0	17.98	18.58	N/A
3615.3	3632.4				17.64	18.24	N/A
3672.9	3690.0				17.37	17.97	N/A
3557.8	3574.9		P_1@74	S_0@0	17.91	18.51	N/A
3615.3	3632.4				17.65	18.25	N/A
3672.9	3690.0				17.35	17.95	N/A
3557.8	3574.9		P_75@0	S_100@0	13.05	13.65	N/A
3615.3	3632.4				16.58	17.18	N/A
3672.9	3690.0				16.37	16.97	N/A
3560.0	3577.1	20+15	P_1@0	S_0@0	17.83	18.43	N/A
3617.6	3634.7				17.48	18.08	N/A
3675.1	3692.2				17.52	18.12	N/A
3560.0	3577.1		P_1@49	S_0@0	17.92	18.52	N/A
3617.6	3634.7				17.58	18.18	N/A
3675.1	3692.2				17.51	18.11	N/A
3560.0	3577.1		P_1@99	S_0@0	17.93	18.53	N/A
3617.6	3634.7				17.54	18.14	N/A
3675.1	3692.2				17.34	17.94	N/A
3560.0	3577.1		P_100@0	S_75@0	13.13	13.73	N/A
3617.6	3634.7				16.60	17.20	N/A
3675.1	3692.2				16.45	17.05	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
64QAM							
3560.0	3579.8	20+20	P_1@0	S_0@0	17.94	18.54	N/A
3615.1	3634.9				17.56	18.16	N/A
3670.2	3690.0				17.50	18.10	N/A
3560.0	3579.8		P_1@49	S_0@0	17.86	18.46	N/A
3615.1	3634.9				17.65	18.25	N/A
3670.2	3690.0				17.28	17.88	N/A
3560.0	3579.8		P_1@99	S_0@0	17.85	18.45	N/A
3615.1	3634.9				17.55	18.15	N/A
3670.2	3690.0				17.41	18.01	N/A
3560.0	3579.8		P_100@0	S_10@0	13.05	13.65	N/A
3615.1	3634.9				16.56	17.16	N/A
3670.2	3690.0				16.39	16.99	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
256QAM							
3553.3	3565.0	5+20	P_1@0	S_0@0	14.89	15.49	N/A
3615.8	3627.5				14.53	15.13	N/A
3678.3	3690.0				14.38	14.98	N/A
3553.3	3565.0		P_1@49	S_0@0	14.92	15.52	N/A
3615.8	3627.5				14.65	15.25	N/A
3678.3	3690.0				14.47	15.07	N/A
3553.3	3565.0		P_1@99	S_0@0	14.89	15.49	N/A
3615.8	3627.5				14.69	15.29	N/A
3678.3	3690.0				14.32	14.92	N/A
3553.3	3565.0		P_100@	S_25@0	14.86	15.46	N/A
3615.8	3627.5				14.57	15.17	N/A
3678.3	3690.0				14.32	14.92	N/A
3560.0	3571.7	20+5	P_1@0	S_0@0	14.75	15.35	N/A
3622.5	3634.2				14.39	14.99	N/A
3685.0	3696.7				14.46	15.06	N/A
3560.0	3571.7		P_1@13	S_0@0	14.81	15.41	N/A
3622.5	3634.2				14.52	15.12	N/A
3685.0	3696.7				14.41	15.01	N/A
3560.0	3571.7		P_1@24	S_0@0	14.69	15.29	N/A
3622.5	3634.2				14.65	15.25	N/A
3685.0	3696.7				14.47	15.07	N/A
3560.0	3571.7		P_25@0	S_100@0	15.10	15.70	N/A
3622.5	3634.2				14.85	15.45	N/A
3685.0	3696.7				14.62	15.22	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

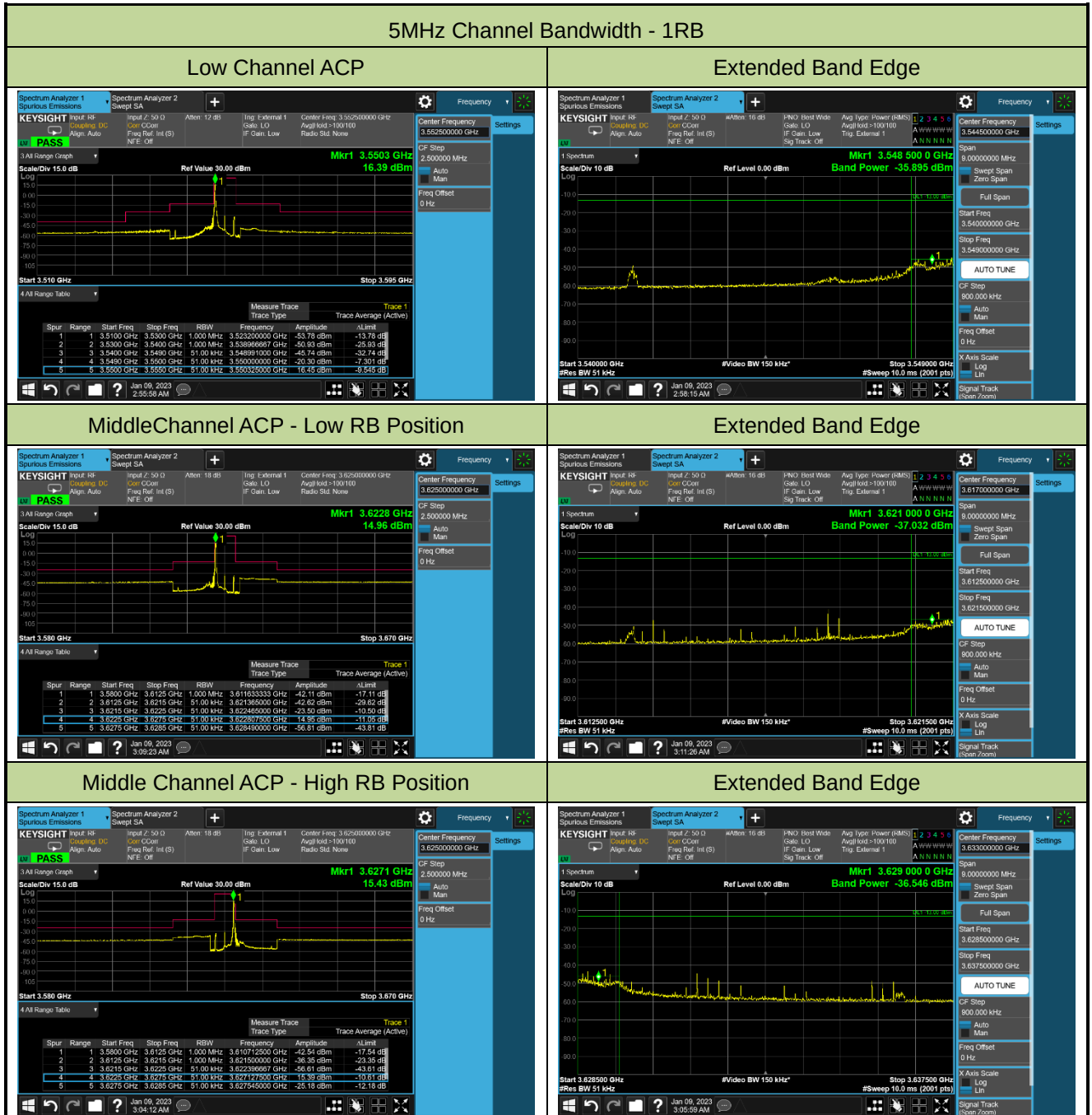
Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
256QAM							
3555.5	3569.9	10+20	P_1@0	S_0@0	14.82	15.42	N/A
3615.6	3630.0				14.48	15.08	N/A
3675.6	3690.0				14.32	14.92	N/A
3555.5	3569.9		P_1@25	S_0@0	14.83	15.43	N/A
3615.6	3630.0				14.48	15.08	N/A
3675.6	3690.0				14.27	14.87	N/A
3555.5	3569.9		P_1@49	S_0@0	14.82	15.42	N/A
3615.6	3630.0				14.47	15.07	N/A
3675.6	3690.0				14.19	14.79	N/A
3555.5	3569.9		P_50@0	S_100@0	13.07	13.67	N/A
3615.6	3630.0				14.57	15.17	N/A
3675.6	3690.0				14.35	14.95	N/A
3560.0	3574.4	20+10	P_1@0	S_0@0	14.98	15.58	N/A
3620.1	3634.5				14.49	15.09	N/A
3680.1	3694.5				14.31	14.91	N/A
3560.0	3574.4		P_1@49	S_0@0	14.87	15.47	N/A
3620.1	3634.5				14.48	15.08	N/A
3680.1	3694.5				14.29	14.89	N/A
3560.0	3574.4		P_1@99	S_0@0	14.92	15.52	N/A
3620.1	3634.5				14.58	15.18	N/A
3680.1	3694.5				14.17	14.77	N/A
3560.0	3574.4		P_100@0	S_50@0	14.98	15.58	N/A
3620.1	3634.5				14.65	15.25	N/A
3680.1	3694.5				14.47	15.07	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
256QAM							
3557.8	3574.9	15+20	P_1@0	S_0@0	14.73	15.33	N/A
3615.3	3632.4				14.37	14.97	N/A
3672.9	3690.0				14.29	14.89	N/A
3557.8	3574.9		P_1@38	S_0@0	14.71	15.31	N/A
3615.3	3632.4				14.41	15.01	N/A
3672.9	3690.0				14.28	14.88	N/A
3557.8	3574.9		P_1@74	S_0@0	14.72	15.32	N/A
3615.3	3632.4				14.46	15.06	N/A
3672.9	3690.0				14.22	14.82	N/A
3557.8	3574.9		P_75@0	S_100@0	13.04	13.64	N/A
3615.3	3632.4				14.54	15.14	N/A
3672.9	3690.0				14.33	14.93	N/A
3560.0	3577.1	20+15	P_1@0	S_0@0	14.79	15.39	N/A
3617.6	3634.7				14.52	15.12	N/A
3675.1	3692.2				14.51	15.11	N/A
3560.0	3577.1		P_1@49	S_0@0	14.78	15.38	N/A
3617.6	3634.7				14.59	15.19	N/A
3675.1	3692.2				14.51	15.11	N/A
3560.0	3577.1		P_1@99	S_0@0	14.69	15.29	N/A
3617.6	3634.7				14.53	15.13	N/A
3675.1	3692.2				14.31	14.91	N/A
3560.0	3577.1		P_100@0	S_75@0	13.13	13.73	N/A
3617.6	3634.7				14.56	15.16	N/A
3675.1	3692.2				14.43	15.03	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Frequency (MHz)		Channel Bandwidth (MHz)	PCC RB	SCC RB	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
PCC	SCC						
256QAM							
3560.0	3579.8	20+20	P_1@0	S_0@0	14.92	15.52	N/A
3615.1	3634.9				14.59	15.19	N/A
3670.2	3690.0				14.42	15.02	N/A
3560.0	3579.8		P_1@49	S_0@0	14.82	15.42	N/A
3615.1	3634.9				14.52	15.12	N/A
3670.2	3690.0				14.36	14.96	N/A
3560.0	3579.8		P_1@99	S_0@0	14.91	15.51	N/A
3615.1	3634.9				14.53	15.13	N/A
3670.2	3690.0				14.38	14.98	N/A
3560.0	3579.8		P_100@0	S_10@0	13.03	13.63	N/A
3615.1	3634.9				14.57	15.17	N/A
3670.2	3690.0				14.39	14.99	N/A
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

A.4 Band Edge Test Result

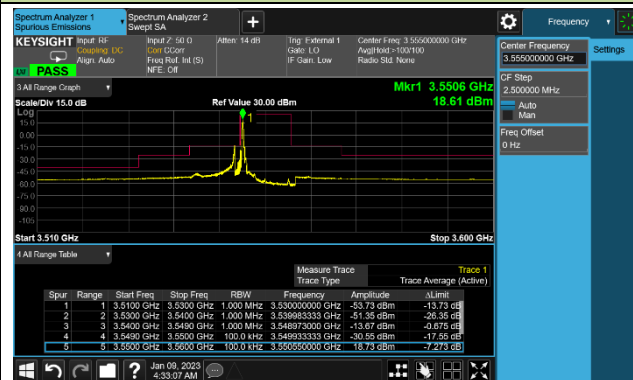
Test Site	SIP-SR1	Test Engineer	Allen Zou
Test Date	2023-01-09	Test Band	Band 48



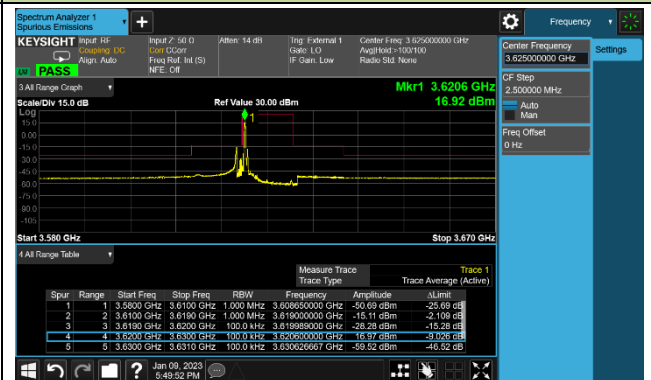


10MHz Channel Bandwidth - 1RB

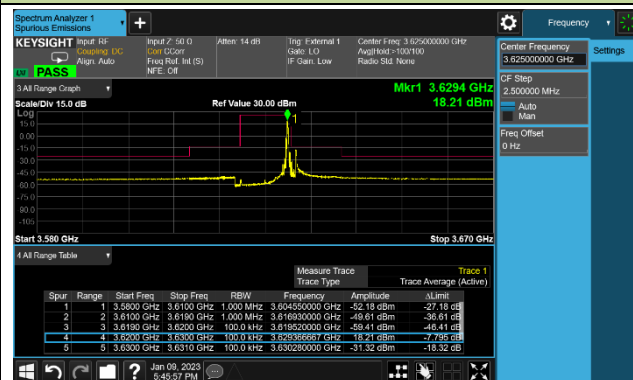
Low Channel ACP



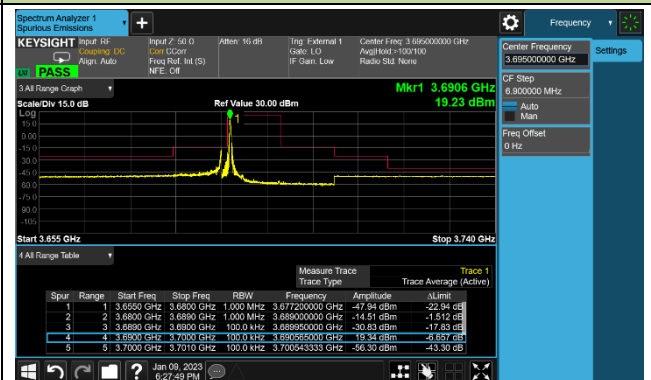
MiddleChannel ACP - Low RB Position



MiddleChannel ACP - High RB Position

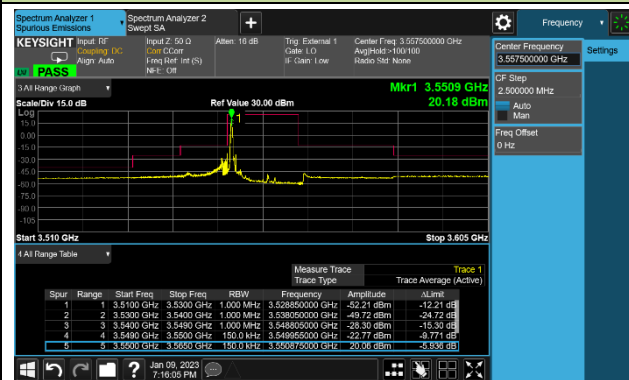


High Channel ACP

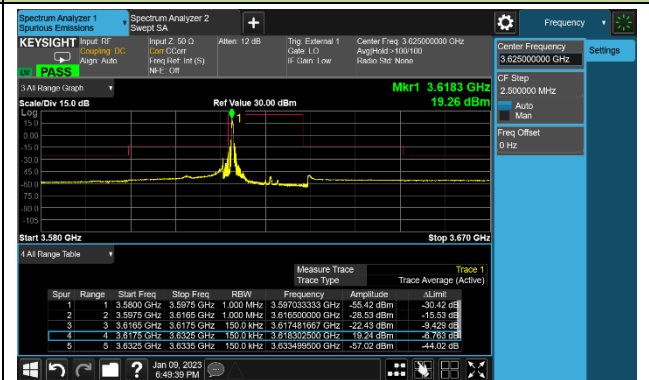


15MHz Channel Bandwidth - 1RB

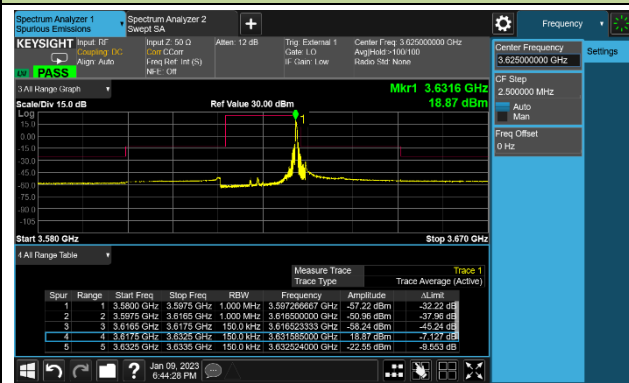
Low Channel ACP



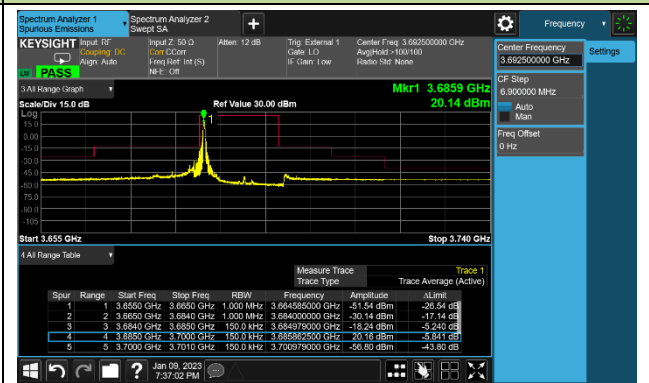
MiddleChannel ACP - Low RB Position



MiddleChannel ACP - High RB Position

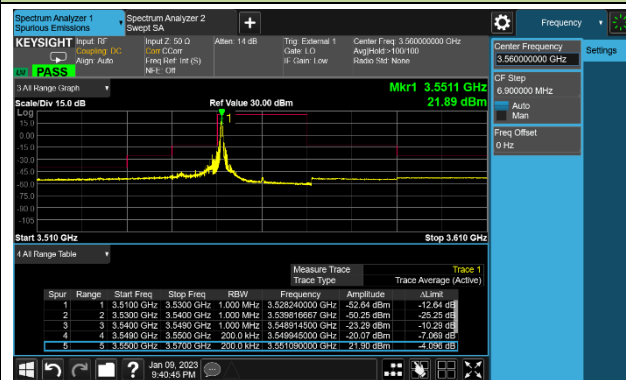


High Channel ACP

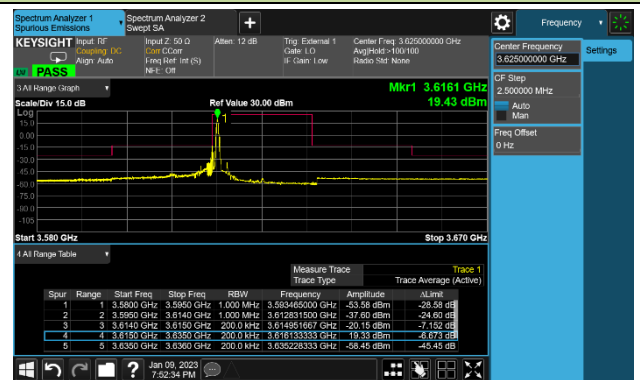


20MHz Channel Bandwidth - 1RB

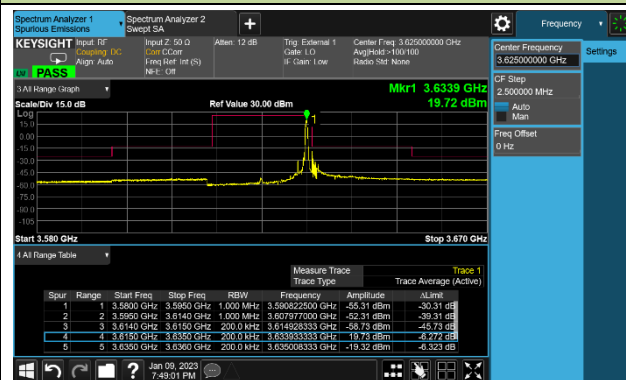
Low Channel ACP



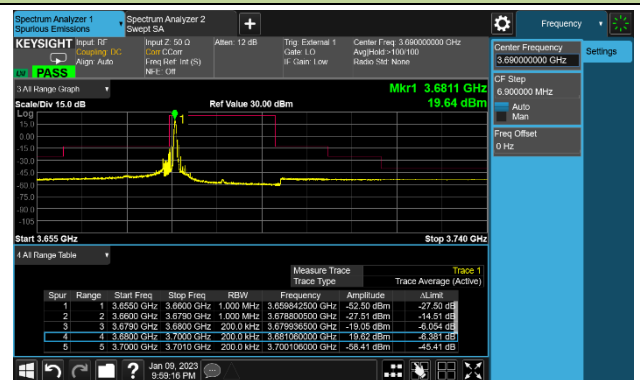
MiddleChannel ACP - Low RB Position



MiddleChannel ACP - High RB Position

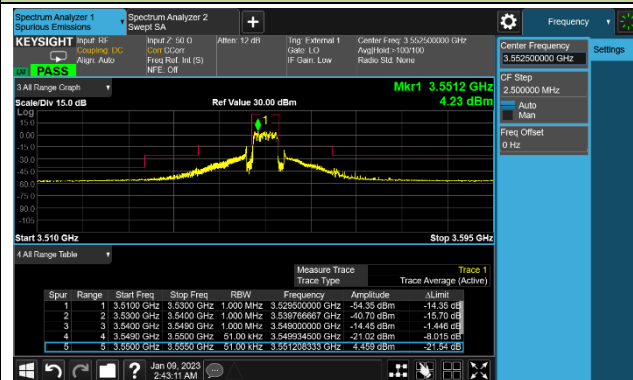


High Channel ACP

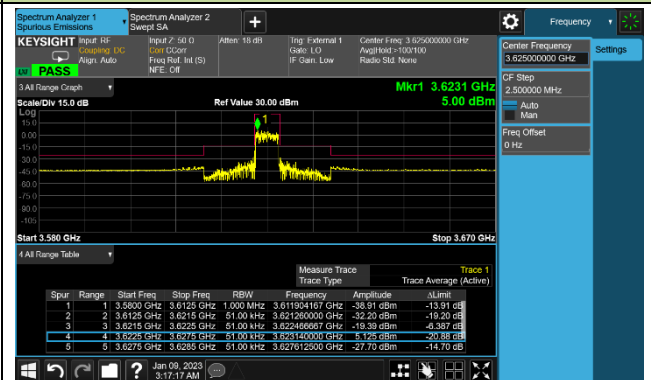


5MHz Channel Bandwidth - Full RB

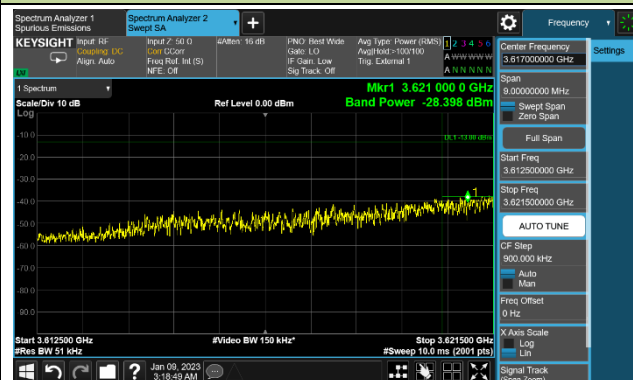
Low Channel ACP



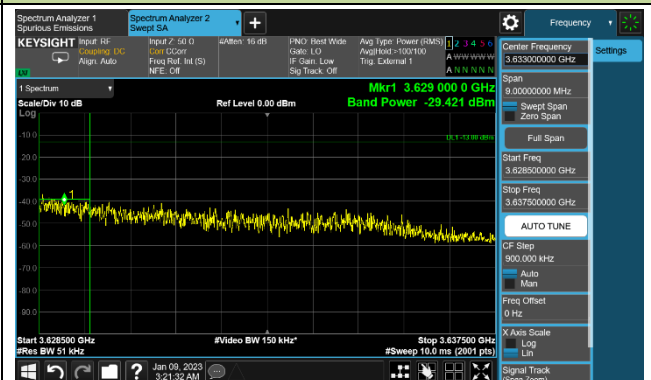
Middle Channel ACP



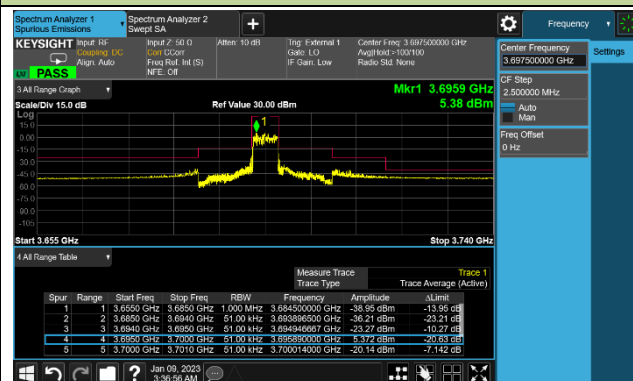
Extended Band Edge



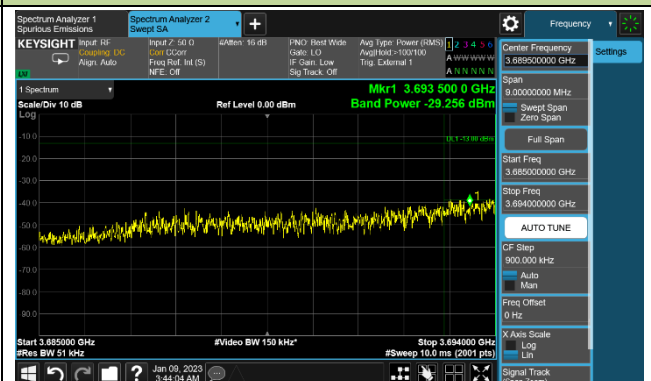
Extended Band Edge



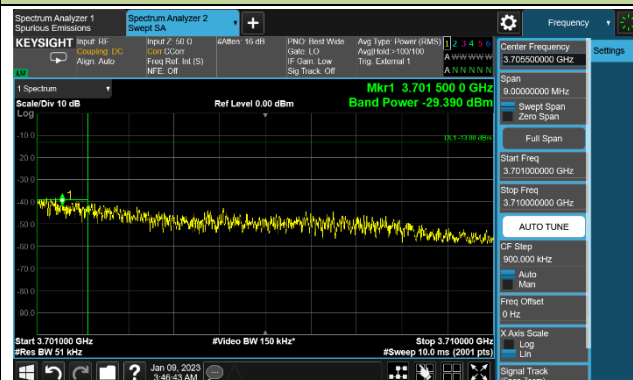
High Channel ACP



Extended Band Edge

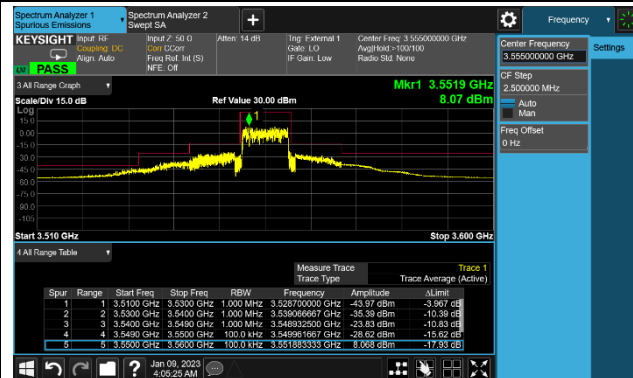


Extended Band Edge

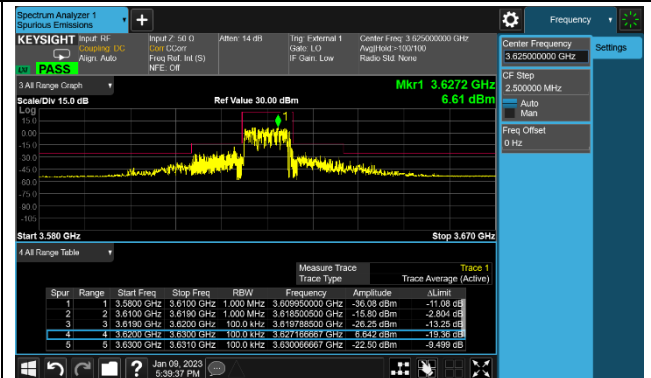


10MHz Channel Bandwidth - Full RB

Low Channel ACP



Middle Channel ACP



High Channel ACP

